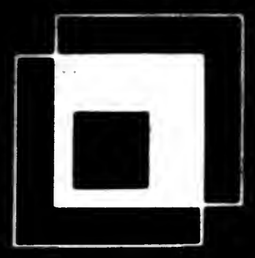
INDEX OF PATENTS

U.S. PATENT OFFICE
WASHINGTON, D.C.

JAN. - DEC.

1969

MICRO PHOTO DIVISION



BELL & HOWELL

JLN

INDEX OF PATENTS

Part I, List of Patentees

ISSUED FROM

THE UNITED STATES PATENT OFFICE

1969

U.S. GOVERNMENT PRINTING OFFICE

WASHINGTON : 1970

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 - Price $14.25 (Buckram)

CONTENTS

	Page
List of Patentees	3
List of Reissue Patentees	1803
List of Design Patentees	1809
List of Plant Patentees	1865
List of Defensive Publications (Applicants to whom issued)	1867
List of Disclaimers and Dedications	1873
Decisions Published in the Official Gazette in 1969	1877

1969

PATENTS ISSUED

Patents	67,562—No.	3,419,907 to No.	3,487,469	inclusive.
Reissues	233—No.	26,515 to No.	26,748	inclusive.
Designs	3,334—No.	213,084 to No.	216,418	inclusive.
Plant Patents	102—No.	2,856 to No.	2,958	inclusive.
Defensive Publications	275—No.	558,996 to No.	T869,016.	

1969
LIST OF PATENTEES

A & D Fabricating Company, Inc.: *See—*
Dirubbo, Angelo, 3,420,290.
A & M Instrument, Inc.: *See—*
Ackerman, Abram; and Schneider, Kurt H., 3,446,981.
A & T Engineering Co., Inc.: *See—*
Carpenter, Arvell A., 3,457,911.
A-B-C Packaging Machine Corporation: *See—*
Neal, Morris P.; Reichert, Donald G.; and Fradenburgh, John, 3,482,489.
A-B-R Ateliers Belges Reunis S.A.: *See—*
Ladmirant, Jean Florent Marie Ghislain, 3,468,438.
A-C Equipment Company: *See—*
Clark, Merlin G., 3,480,224.
AAA Pipe Cleaning Corporation: *See—*
Guthrie, Kenneth R., 3,476,139.
A. Ahlstrom Osakeyhtio: *See—*
Tuomaala, Jorma Aarne Kullervo, 3,471,015.
AAI Corporation: *See—*
Barr, Irwin R., 3,430,570.
Barr, Irwin R., 3,430,571.
Barr, Irwin R.; and Critcher, John L., 3,453,763.
Barr, Irwin R.; and Critcher, John L., 3,476,048.
Barr, Irwin R., 3,477,374.
Barr, Irwin R., 3,477,375.
Critcher, John L., 3,434,425.
Hebert, John R.; La Costa, Nicholas J.; and Schnepfe, Robert W., Jr., 3,437,245.
Kennedy, James D., 3,487,304.
Knapp, Phillip M.; and Wright, Paul E., 3,483,636.
Schaller, John W., 3,434,226.
Schnepfe, Robert W, Jr., 3,439,614.
Stinchcomb, Raymond G., 3,466,761.

Aaland, Kristian, to United States of America, Atomic Energy Commission. Protection circuit having extended range fuse characteristics. 3,487,265, 12-30-69, Cl. 317-31.

Aaland, Kristian; and Zucker, Oved S., to United States of America, Atomic Energy Commission. High energy pulse generator utilizing a decoupling transformer. 3,459,960, 8-5-69, Cl. 307-108.

Aaltonen, Olavi: *See—*
Bryk, Petri; Honkasalo, Jorma B.; Malmstrom, Rolf; Aaltonen, Olavi; and Palperi, Matti,3,460,491.

Aarnaes, Morten H. K., to Lockheed Aircraft Corporation. Aircraft wing pivot. 3,451,646, 6-24-69, Cl. 244-46.

Aaron, Herbert S.; Owens, Omer O.; and Miller, Jacob I., to United States of America, Army. Synthesis of 3-quinuclidinol. 3,464,997, 9-2-69, Cl. 260-294.7

Aaron, Jack, to Erlich, Ralph R. Fine, Michael N. DeVito, Charles P., and DeVito, Albert P., as trustees, mesne. Method of and means for coupling sheet-like members. 3,477,089, 11-11-69, Cl. 16-16.

Aarons, Melvin W.: *See—*
Bentley, John M.; and Aarons, Melvin W.,3,468,729.
Aas, Herbert G.: *See—*
Erf, Robert K.; Wingfield, Edward C.; and Aas, Herbert G.,3,480,368.

Aas, Herbert G., to United Aircraft Corporation Societe d'Etude du Transport et de la. Monocrystalline directional sonic transducer. 3,421,031, 1-7-69, Cl. 310-8.5

Aas, Herbert G.; and Danielson, George E., Jr., to United Aircraft Corporation. Ultrasonic modulator having a cylindrical transducer. 3,435,372, 3-25-69, Cl. 331-94.5

Aasen, Leiv B.: *See—*
Wortz, Edward C.; and Aasen, Leiv B.,3,441,020.

Aasen, Torulf F.; Schlessel, Joseph H.; and Waznys, Peter J., to Airequipt Inc. Automatic slide projector. 3,459,474, 8-5-69, Cl. 353-21.

Aasted, Jorgen; and Kafitz, Peter H., to Ryan Aeronautical Co., The. Electronically scanned integrated antenna system. 3,427,620, 2-11-69, Cl. 343-100.

AB Akerlund & Rausing: *See—*
Benzon-Petersen, Boye, 3,421,416.
Hakansson, Jan Torsten; and Dilot, Rolf Magnus, 3,451,317
Hallberg, Knut Ivar, 3,486,445.
Nilsson, Erling Ingvar, 3,429,274.
A.B. Astra: *See—*
Debay, Andre Georges; and Thery, Jacques Louis Marie Joseph, 3,428,642.
AB Autokemi: *See—*
Smith, Kai Robert, 3,435,170.
AB Bonnierforetagen: *See—*
Andersson, Anders Ingvar, 3,477,591.
Carlen, Bo Robert, Jr., 3,450,275.
A.B. Broderna Hedlund: *See—*
Lindmark, Bo Mauritz, 3,430,475.
Persson, Knut Axel Waldemar, 3,436,518.
AB Cykelfabriken Fram: *See—*
Lundgren, Claes Erik Gunnar; and Lichtneckert, Istvan Janos Antal, 3,451,674.
AB FLYGMAL Air Target Ltd.: *See—*
Sellman, Ulf Carl Iwar; and Ericsson, Gunnar Arthur, 3,476,208.
AB Grythyttans Stalmobler: *See—*
Sjoblom, Eric A., 3,476,060.
AB Industrifjadrar: *See—*
Cederberg, Sten; and Nygren, Harry M., 3,486,793.
AB Kalle-Regulatorer: *See—*
Gustafsson, Berth Ulrik, 3,435,773.
AB Linde International: *See—*
Andren, Ingmar K. L., 3,465,521.
AB Medicinsk-Kemiska Laboraloriet Calab: *See—*
Jungner, Olof Gunnar Hugo, 3,476,518.
AB Mekanprodukter Hans Holm: *See—*
Innings, Lars Sven Erik; and Hammarlund, Lars Arne, 3,431,939.
Ab Nordstroms Linbanor: *See—*
Wiklund, Sven Anders Hilding, 3,459,119.
AB Purac: *See—*
Lundin, Eric Gustaf; and Rubin, Ernst Arne, 3,433,359.
AB Rosenblads Patenter: *See—*
Backteman, Erik Hugo, 3,428,107.
Marmsater, Tore Gustav Fredrik, 3,464,488.
Stalberg, Per Erik Ruben, 3,444,926.
AB Svenska Maskinverken: *See—*
Chambert, Lars Axel, 3,476,488.
Chambert, Lars Axel A., 3,464,393.
AB Svenska Metallverken: *See—*
Fredriksson, Per Sven Engelbrekt; and Granstrom, Olof Alvar, 3,451,123.
AB Tetra Pak: *See—*
Brunlid, John Erik, 3,486,964.
Carlsson, Lennart Inge; and Andersson, Lars Goran, 3,474,899.
Fuchs, Alfred, 3,471,351.
Lindh, Torsten L.; and Lindblad, Lars O. I., 3,445,180.
Lindh, Torsten Lennartson; and Lindblad, Lars Olof Ingemar, 3,440,125.
Rano, Sture Georg, 3,449,186.
Rausing, Anders Ruben, 3,466,841.
Rausing, Gad Anders; and Jarund, Harry Sigvard Valdemar, 3,431,700.
Rausing, Gad Anders; and Tuma, Alex, 3,486,295.
Rausing, Hans Anders, 3,471,991.
Stark, Sven Olof Soren; and Giacomelli, Peter K., 3,445,629.
Stark, Sven Olof Soren; and Lindh, Thyrsten Lennartson, 3,455,214.
Stark, Sven Olof Soren; Melle, Hans-Georg Wilhelm; and Lindh, Thorsten Lennartson, 3,462,334.
Tornqvist, Nils Erik; and Stark, Sven Olof Soren, 3,427,425.
Tuma, Alex, 3,440,003.
Tuma, Alex, 3,457,968.
Tuma, Alex, 3,470,672.
Wettlen, Lars Malte Roland; and Christopherson, Curt Ingvar, 3,443,717.
Wettlen, Lars Malte Roland, 3,456,861.
AB Tico: *See—*
Frisk, Knut Olov; and Gustafsson, Karl Paul, 3,476,017.

AB Tolu: *See—*
Ostnas, Lars-Olor Lennart, 3,482,698.
AB Trapco: *See—*
Ulin, Johan Emil, 3,459,319.
AB Vibrasug: *See—*
Hallstrom, Olof Henrik; and Fredholm, Gunnar Ivar, 3,482,931.
A B Akerlund & Rausing: *See—*
Nilsson, Erling Ingvar, 3,442,428.
Abar Corporation: *See—*
Cyrway, Edward N., Jr.; and Metalsky, William J., 3,476,862.
Abate, Leo: *See—*
Anderle, Joseph A.; and Abate, Leo,3,425,480.
Lorentzen, Hans K.; and Abate, Leo,3,485,286.
Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo,3,425,479.
Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo,3,447,585.
Abatiell, James S., Jr. Structural system and components. 3,426,913, 2-11-69, Cl. 211-177.
Abbate Daga, Angelo: *See—*
Monge, Michele; and Abbate Daga, Angelo,3,465,772.
Abbey, Anthony: *See—*
Klothen, Irving; Fortenbaugh, Robert Berendt; and Abbey, Anthony,3,434,844.
Abbey, Anthony; Fortenbaugh, Robert Berendt; and Klothen, Irving, to American Cyanamid Company. Stabilization of animal and poultry feeds containing a tetracycline antibiotic. 3,427,166, 2-11-69, Cl. 99-2.
Abbey Electronics Corp.: *See—*
Bosworth, Seymour; and Zauderer, Jerome, 3,421,083.
Abbey-Etna Machine Company, The: *See—*
Ruple, Lewis H., 3,468,150.
Abbott, Albert F.; Haskin, Bruce J.; and Klopich, Marshall E., to Explosives Corporation of America. Tree felling technique and shaped explosive charge employed therein. 3,444,811, 5-20-69, Cl. 102-23.
Abbott, Alfred J. Radial hinge assembly. 3,479,684, 11-25-69, Cl. 16-163.
Abbott, Bobby R. Car top carrier. 3,480,166, 11-25-69, Cl. 214-450.
Abbott, Daniel B.; and Huntington, Andrew B., to Ross Operating Valve Company. Adjustable exhaust restrictor. 3,473,781, 10-21-69, Cl. 251-121.
Abbott, Douglas T.; and Thompson, William C., to Columbian Bronze Corporation. Yielding bushing. 3,477,794, 11-11-69, Cl. 416-134.
Abbott, Earl: *See—*
Lickeliter, Robert P.; Abbott, Earl; and Reeves, John F.,3,478,678.
Lickliter, Robert P.; Abbott, Earl; and Reeves, John F.,3,450,037.
Lickliter, Robert P.; Abbott, Earl; and Reeves, John F.,3,481,088.
Abbott, Edward A., Jr., to Hughes Aircraft Company. Electronic switching circuit employing insulated gate field effect transistors. 3,428,832, 2-18-69, Cl. 307-251.
Abbott, Edward F.: *See—*
Worden, Donald P.; and Abbott, Edward F.,3,441,704.
Abbott, Frank R., to United States of America, Navy. Electro acoustic lumped constant transmission line. 3,458,856, 7-29-69, Cl. 340-9.
Abbott, Frank R., to United States of America, Navy. Magnetostrictive vibration motor. 3,470,402, 9-30-69, Cl. 310-26.
Abbott, George F.; Ceonzo, Joseph A.; Isenberg, John F., Jr.; Johnson, Robert A.; and Regan, John M., to International Business Machines Corporation. Automatic intercept system. 3,482,057, 12-2-69, Cl. 179-27.
Abbott, Harold W.; and Klisz, Adam E., to General Electric Company. Printed circuit assembly with interconnection modules. 3,486,076, 12-23-69, Cl. 317-101.
Abbott, Henry H.; Hohmann, Lawrence A., Jr.; and Wells, George W., to Bell Telephone Laboratories, Incorporated. Communication system line circuit particularly for key telephone systems. 3,420,963, 1-7-69, Cl. 179-99.
Abbott, James J., Jr. Pre-register apparatus for printing press. 3,434,217, 3-25-69, Cl. 33-184.5
Abbott Laboratories: *See—*
Barr, Courtland H., Sr.; Barr, Courtland H., Jr.; Barr, John W.; and Lucas, James W., 3,434,468.
Cardinal, Earl Victor, 3,479,154.
Cole, John Wayne; and Lex, Charles George, 3,468,880.
Cox, Alvon R., 3,462,776.
Crovetti, Aldo J.; and Neundorf, Maynette V., 3,457,294.
Crovetti, Aldo J.; and Von Esch, Anne Mary, 3,468,884.
Earl, Robert Pendleton, 3,472,232.
Fields, Mack R., 3,477,454.
Flouret, George Rogelio; and Cole, John Wayne, 3,487,065.
Freiberg, Leslie A., 3,478,083.
Freifelder, Morris, 3,455,987.
Hill, Philip Melvin, 3,453,360.
Horrom, Bruce Wayne; and Crovetti, Aldo Joseph, 3,481,979.
Johnson, Robert Phillip; and Oswald, John Paul, 3,448,114.
Johnson, Robert Phillip; and Oswald, John Paul, 3,466,293.
Jones, Peter H.; and Rowley, Elizabeth A., 3,478,013.
Kuhr, Wayne Kenneth; Slakis, Albin Joseph; Hughes, Richard Lawrence; and Neilson, Anne Josephine, 3,432,305.
Kurath, Paul, 3,468,911.
Lee, Cheuk Man, 3,481,950.
Lych, Don Murl, 3,442,893.
Lynch, Don M., 3,453,283.
Miller, Theodore A., Jr., 3,461,876.
Olson, David W., 3,443,711.
Rosenbrook, William, Jr.; and Sinclair, Arthur Charles, 3,432,505.
Short, James Harold, 3,432,493.
Short, James Harold, 3,454,640.
Short, James Harold, 3,478,030.
Stein, Herman H., 3,472,748.
Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru, 3,424,758.
Swett, Leo Ralph; Ratajczyk, James Daniel; and Darby, Thomas Dillard, 3,424,844.
Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru, 3,450,694.
Swett, Leo Ralph; Ratajczyk, James Daniel; and Kimura, Eugene Tatsuru, 3,476,748.
Tadanier, John Soloman, 3,450,725.
Von Esch, Anne Mary; and Crovetti, Aldo J., 3,478,049.
Walecka, Leonard Edward, 3,477,431.
Welch, William H., 3,468,446.
Wolownik, Stephen, 3,432,508.
Abbott Machine Co., Inc.: *See—*
Abbott, Samuel L., 3,461,520.
Abbott, Malcolm K.: *See—*
Cripe, Maxwell L.; and Abbott, Malcolm K.,3,486,389.
Abbott, Malcolm K., to Bendix Corporation, The. Fluid pressure servomotor. 3,482,485, 12-9-69, Cl. 91-369.
Abbott, Malcolm K.; and French, Charlie N., to Bendix Corporation, The. Valve and spring retainer. 3,452,646, 7-1-69, Cl. 91-376.
Abbott, Ralph E., to Bailey Meter Company. Control system for sugar inversion process. 3,480,476, 11-25-69, Cl. 127-1.
Abbott, Randle Leslie, to Auto Transmissions Limited. Change-speed epicyclic gearing and associated control means. 3,426,623, 2-11-69, Cl. 74-781.
Abbott, Randle Leslie: *See—*
Lamburn, Alan Salisbury; Abbott, Randle Leslie; Whateley, Eric Albert; and Clark, George Kenneth,3,472,098.
Lamburn, Alan Salisbury; and Abbott, Randle Leslie,3,459,285.
Abbott, Richard L.; and Stengel, Leonard A., to Commercial Solvents Corporation. Production of an ammonium phosphate-ammonium nitrate fertilizer material and calcium sulfate. 3,475,153, 10-28-69, Cl. 71-35.
Abbott, Robert E.: *See—*
Stephenson, Jack G.; and Abbott, Robert E.,3,451,561.
Abbott, Roy W.; and Mullings, Donald M., to General Electric Company. Dual-mount furnace humidifier. 3,437,318, 4-8-69, Cl. 261-24.
Abbott, Samuel L., to Abbott Machine Co., Inc. Slub catcher. 3,461,520, 8-19-69, Cl. 28-64.
Abbott, Terence A.; Clachan, Margaret L.; Kennedy, David Rankine; McIntyre, Ian S.; and Shephard, Basil R., to Bexford Limited. Drafting film. 3,447,947, 6-3-69, Cl. 117-73.
Abbott, Thomas I.; and Huedepohl, Hugo F., to Eastman Kodak Company. Negative material for converting from letterpress to lithography. 3,473,926, 10-21-69, Cl. 96-27.
Abbott, Tom L. Mop wringer. 3,462,788, 8-26-69, Cl. 15-119.
Abbott, Willa D. Scarf hairpiece. 3,460,546, 8-12-69, Cl. 132-53.
Abbott, William Glen, 1/2 to Lewis, Martin, Jr. Process of molding and compacting hollow concrete products including pulsating water vibrator means. 3,470,279, 9-30-69, Cl. 264-72.
Abboud, Harry I. Aerosol filtering apparatus. 3,429,106, 2-25-69, Cl. 55-292.
Abbratozzato, Salvatore R.: *See—*
Harvey, David E.; Amrein, Carl J.; and Abbratozzato, Salvatore R.,3,476,965.
Abbrecht, Herman R.: *See—*
Double, Plummer E.; and Abbrecht, Herman R.,3,439,723.
A.B.C. Popcorn Company, Inc.: *See—*
Lambeth, Ralph Mack, 3,430,671.
Abcor, Inc.: *See—*
Crowley, Richard P., 3,422,605.
Crowley, Richard P., 3,436,897.
Crowley, Richard P., 3,453,811.
Meissner, Herman Paul; and Baddour, Raymond Frederich, 3,458,283.
Modell, Michael, 3,455,817.
Modell, Michael, 3,478,574.
Pierce, Russell W., 3,437,446.
Abdullaev, Gasan Mamed Bagir Ogly; Nani, Rakhim Khasan; Nasirov, Yadulla Nusrat Ogly; Kuliev, Arif Zulfigarovich; Epshtein, Mikhail Grigorievich; and Kochkarev, Vladimir Ilich. Semiconducting material. 3,472,652, 10-14-69, Cl. 75-134.

Abdulragimov, Aliovsad Ibragim Ogly: *See*—
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.

Abe, Akira; and Hatano, Isao, to Tateisi Electronics Co. Reversible counting circuit apparatus. 3,423,576, 1-21-69, Cl. 235-92.

Abe, Akira; and Takahashi, Jukichi, to Tateisi Electronics Co. Elevator control system with an up-down counter to determine car position. 3,443,666, 5-13-69, Cl. 187-29.

Abe, Fujio: *See*—
Cauthen, John V.; Hinson, Claudell; Ledford, Garland M.; and Abe, Fujio,3,459,235.

Abe, Fujio; Cauthen, John V.; and McCoy, Daniel W., to Burlington Industries, Inc. Apparatus for stopping textile machinery upon detection of yarn-break and for indicating location thereof. 3,456,310, 7-22-69, Cl. 28-51.

Abe, Fumihiko. Hair curler. 3,472,245, 10-14-69, Cl. 132-33.

Abe, Hidekazu; Shibata, Hiromichi; and Ito, Teruo, to Nihon Denchi Kabushiki Kaisha. Method of making silver chloride electrode having a metallic silver coating on at least part of each particle. 3,445,296, 5-20-69, Cl. 136-120.

Abe, Kazuo; Kokubo, Ryo; Yamada, Yumizuru; Nagakura, Mizuhiko; and Shima, Koji, to Nissan Kagaku Kogyo Kabushiki Kaisha. Apparatus for the continuous production of melamine. 3,432,274, 3-11-69, Cl. 23-285.

Abe, Ryoichi, to Hitachi Electronics Company, Ltd. Function generator. 3,436,536, 4-1-69, Cl. 235-197.

Abe, Ryoichi, to Hitachi Electronics Company, Ltd. Function generator. 3,443,082, 5-6-69, Cl. 235-197.

Abe, Ryoichi; and Miura, Takeo, to Kabushiki Kaisha Hitachi Seisakusho. Non-linear, positive-feedback amplifier. 3,423,687, 1-21-69, Cl. 330-8.

Abe, Shokichi; Kakefude, Koichi; and Honjo, Mitsuo, to Hitachi Chemical Company, Ltd. Method of graft-copolymerization of monomers onto diene- type polymer. 3,436,440, 4-1-69, Cl. 260-880.

Abe, Zenmon: *See*—
Ohashi, Shin-Ichi; Takagi, Toshijiro; and Abe, Zenmon,3,474,307.

Abegg and Reinhold: *See*—
Bartos, Josef, 3,461,974.

Abegg and Reinhold Co.: *See*—
Kingsbury, Guy W.; and Haby, George H., 3,457,605.

Abegg, Moroni Taylor; Hull, Daniel M.; and Leslie, William B., to United States of America, Atomic Energy Commission, mesne. Optical maser system. 3,453,558, 7-1-69, Cl. 331-94.5

Abel, Donald J. Digital converters. 3,465,329, 9-2-69, Cl. 340-347.

Abel, Edmund, Jr.: *See*—
Cubberley, Harold A.; Abel, Edmund, Jr.; and Sackett, John E.,3,433,255.

Abel, Heinz: *See*—
Casty, Richard; Berger, Alfred; Mosimann, Walter; and Abel, Heinz,3,421,830.

Abel, Irving R.; and Kegelman, Thomas D., to United Aircraft Corporation. Collimated viewing system. 3,446,916, 5-27-69, Cl. 178-7.85

Abel, John F., Jr.: *See*—
Nichols, Thomas C., Jr.; Abel, John F., Jr.; and Lee, Fitzhugh T.,3,482,443.

Abel, Martin L., to Permawick Company, Inc. Lubricated bearing assembly and method of making same. 3,434,765, 3-25-69, Cl. 308-132.

Abel, Martin L., to Permawick Company, Inc. Oil-impregnated wicking material. 3,466,244, 9-9-69, Cl. 252-14.

Abel, Roy, Jr. Programmed swing training device. 3,429,571, 2-25-69, Cl. 273-26.

Abel, William E. Communication system for classroom use and the like. 3,462,688, 8-19-69, Cl. 325-47.

Abel, William E. Loop antenna circuit coupling multiple transmitters. 3,474,451, 10-21-69, Cl. 343-208.

Abela, Michael F. Cartridge having a composite, spinning projectile. 3,452,677, 7-1-69, Cl. 102-38.

Abele, Janis I.: *See*—
Lecouturier, Jacques M.; Abele, Janis I.; and Schlienger, Max P.,3,460,178.

Abele, Thomas A.; and Wang, Han-Chiu, to Bell Telephone Laboratories, Incorporated. Tunable microwave time delay equalizer. 3,466,573, 9-9-69, Cl. 333-28.

Abele, Werner: *See*—
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred,3,453,277.

A. B. Electronic Components Limited: *See*—
Milner, Ernest; and Davies, Gwyn, 3,470,332.

Abelius, Sven Gosta Birger. Transport and storage package. 3,447,260, 6-3-69, Cl. 47-34.11

Abell, Joseph B., Jr.; Fannin, Loyd W.; and Roth, James F., to Monsanto Company. Calcination of platinum-alumina catalyst for alkane dehydrogenation. 3,435,090, 3-25-69, Cl. 260-683.3

Abell, Roy F., Jr., to Eaton Yale & Towne, Inc. Valve tappet. 3,437,080, 4-8-69, Cl. 123-90.

Abell, Roy F., Jr., to Eaton Yale & Towne, Inc. Hydraulic valve lifter. 3,448,730, 6-10-69, Cl. 123-90.

Abella, James E.: *See*—
Hoffman, George J.; and Abella. James E.,3,463,280.

Abelow, Ira; and Wagman, Jack, to United States of America, Army. Fluidized bed freeze drying. 3,436,837, 4-8-69, Cl. 34-5.

Abelseth, Melvin Kenneth: *See*—
Crawley, John F.; and Abelseth, Melvin Kenneth,3,423,505.

Abelson Motors Limited: *See*—
Chapman, Victor A., 3,430,793.

Aben, Pieter C.: *See*—
Kouwenhoven, Herman W.; Aben, Pieter C.; and van der Wal, Karel,3,422,001.

Abend, Chester J.; Adams, Gerald M.; and Younge, Paul Dennis, to SCM Corporation. Geographical clock having a spacecraft element associated therewith. 3,486,322, 12-30-69, Cl. 58-43.

Abend, Irving J., to Lear Siegler, Inc. Multi-loop antenna and superregenerative detector. 3,484,697, 12-16-69, Cl. 325-373.

Abercrombie, Bolling A., to McMurry, Everett D., and Bruun, Knud I. Gas lift apparatus. 3,439,626, 4-22-69, Cl. 103-232.

Abercrombie, Lawrence W.; Saaty, Nabil N.; and Sayigh, Adnan A. R., to Upjohn Company, The. High density rigid polyether/polyester urethane foams. 3,467,605, 9-16-69, Cl. 260-2.5

Abercrombie, Malcolm James; and Thomas, David B., to British Geon Limited. Polymerisation process. 3,480,602, 11-25-69, Cl. 260-87.1

Aberg, Martin Birger. Door closure. 3,430,676, 3-4-69, Cl. 160-202.

Aberle, Richard H.; and Lucas, Robert H., to American Metal Climax, Inc. Process for making high-strength, wettable aluminum foil. 3,438,228, 4-15-69, Cl. 72-42.

Abernathy, John L., to Bell Telephone Laboratories, Incorporated. voltage amplitude-to-time duration converter. 3,479,604, 11-18-69, Cl. 328-151.

Abernethy, Hugh, 3rd: *See*—
Sauter, Donald M.; and Abernethy, Hugh, 3rd,3,454,782.

Abernethy, Ira A.: *See*—
Feichter, Harold R.; Abernethy, Ira A.; Eishley, Charles F.; Cable, Stephen J.; and Hoffman, Olin M.,3,444,660.

Abert, Charles; Runyon, John P.; and Zarouni, Alfred, to Bell Telephone Laboratories, Incorporated. Call tracing arrangement. 3,471,647, 10-7-69, Cl. 179-18.

Aberth, Oliver G.: *See*—
Andersson, Per L.; and Aberth, Oliver G.,3,431,406.

Abex Corporation: *See*—
Adams, Cecil E.; and Hedge, John F., 3,421,413.
Adams, Cecil E.; Griffith, Randall E.; Miller, Charles R.; and Wilcox, Jack W., 3,481,276.
Atchley, Raymond D., 3,444,877.
Beetle, Robert H.; and Dabney, John B., 3,460,605.
Beetle, Robert H.; and Dabney, John B., 3,480,070.
Coakley, James L., 3,424,183.
Coakley, James L.; and Kubilos, Charles A., 3,437,101.
Coakley, James L.; and Kubilos, Charles A., 3,447,111.
Coakley, James L., 3,473,547.
Keller, Emil C., 3,448,071.
Keller, Emil C., 3,477,983.
Keyworth, Albert, 3,429,225.
Kubilos, Charles A., 3,437,015.
Mc Cune, Robert B.; and Wilson, Rosser L., 3,480,773.
McCune, Robert B., 3,448,433.
McCune, Robert B.; and Wilson, Rosser L., 3,483,367.
Meisel, William H., 3,435,393.
Mori, Hideo, 3,443,072.
Mori, Hideo, 3,486,008.
Ponzar, Fred W., 3,433,293.
Porter, Richard E., 3,443,440.
Ratkowski, Thomas A., 3,455,040.
Ratkowski, Thomas A., 3,457,998.
Redelman, Paul E., 3,427,448.
Smith, Gary C., Jr., 3,466,013.
Wilson, Rosser L.; Frank, Earl E.; and Sperry, Edward C., 3,449,562.
Wilson, Rosser L.; and Redelman, Paul E., 3,483,368.
Zupez, John A.; and Hoyer, Llewellyn E., 3,423,137.

A B Halldemaskiner: *See*—
Hall, Ernst Otto Sigfrid, 3,468,355.

Abidi, Farsheed, to Pullman Incorporation. Equipment support. 3,460,785, 8-12-69, Cl. 248-17.

Abild, Robert N., to United Aircraft Corporation. Movable vane unit. 3,471,126, 10-7-69, Cl. 253-39.1

Abington Textile Machinery Works, Inc.: *See*—
Ramo, Oliver H., 3,471,890.

Abitboul, Georges D.: *See*—
Katzef, Irving B.; and Abitboul, Georges D.,3,423,038.

Abitibi St. Anne Paper Ltd.: *See—*
Hamilton, Douglas D., 3,482,611.
Abkowitz, Stanley; Larson, Warren L.; and Rizzitano, Fortunato J., said Abkowitz and said Larson assor, by direct and mesne assigts of 2/3 to Whittaker Corporation. Titanium alloy beryllium composites. 3,475,142, 10-28-69, Cl. 29-192.
Ablad, Bengt Arne Hjalmar: *See—*
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar,3,466,325.
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar,3,466,376.
Able, Edward T.: *See—*
Blackwell, Lyman L.; and Able, Edward T.,3,449,668.
Ablestik Adhesive Company: *See—*
Gordon, Mason L., 3,446,168.
Gordon, Mason L., 3,484,995.
Abner, Charles L. Safety device for holding, retaining and snuffing out a burning cigarette or cigar. 3,441,030, 4-29-69, Cl. 131-256.
Abo, Masahiro: *See—*
Koga, Wataru; Abo, Masahiro; Yasuoka, Yoshio; Nozaki, Michio; and Nomaguchi, Kanemasa,3,444,112.
Tanno, Takeshi; Shibuya, Ikutoshi; and Abo, Masahiro,3,446,872.
Abolins, Andrew, to Strick Corporation. Foldable storable landing gear. 3,448,998, 6-10-69, Cl. 280-415.
Abolins, Andrew, to Strick Corporation. Coupling device for container handling system. 3,460,862, 8-12-69, Cl. 294-82.
Aboul-Saad, Halim G.: *See—*
Hyldon, Roy G.; Fink, Doris E.; and Aboul-Saad, Halim G.,3,450,692.
Abplanalp, Robert Henry. Pressurized powder dispensing device. 3,425,600, 2-4-69, Cl. 222-193.
Abplanalp, Robert Henry. Valve actuator for pressurized dispensers. 3,437,272, 4-8-69, Cl. 239-307.
Abplanalp, Robert Henry. Product shut-off. 3,464,593, 9-2-69, Cl. 222-182.
Abraham, Anton, to Wiener Kammfabrik Anton Abraham Komm. Ges. Dressing comb made of plastic material. 3,464,427, 9-2-69, Cl. 132-136.
Abraham, Edward D.; and Ellms, Robert W., to Sherwin-Williams Company, The, mesne. Shockless jolt molding machine with air spring means. 3,461,947, 8-19-69, Cl. 164-197.
Abraham, Ernestine Gelblum: *See—*
Hoffmann, Arthur Kentaro; and Abraham, Ernestine Gelblum,3,422,144.
Abraham, Garnett. Adjustable shade apparatus. 3,454,076, 7-8-69, Cl. 160-368.
Abraham, Garnett. Adjustable window shade. 3,456,710, 7-22-69, Cl. 160-298.
Abraham, Garnett. Adjustable blind mechanism. 3,460,601, 8-12-69, Cl. 160-168.
Abraham, Garnett. Retractable clothesline. 3,477,660, 11-11-69, Cl. 242-100.1
Abraham, John J.; and Abraham, Maroon J. Paper dispensing apparatus. 3,436,997, 4-8-69, Cl. 83-205.
Abraham, Maroon J.: *See—*
Abraham, John J.; and Abraham, Maroon J.,3,436,997.
Abraham, Richard P.; and Sevin, Leonce J., to Texas Instruments, Incorporated. Magnetic thin film adaptive element. 3,460,106, 8-5-69, Cl. 340-174.
Abraham, Richard P.: *See—*
Ramsey, Thomas H., Jr.; Van Tassel, James H.; and Abraham, Richard P.,3,453,722.
Abraham, Samuel. Portable and adjustable platform extender for barns. 3,457,901, 7-29-69, Cl. 119-28.
Abrahami, Shoshana; Molcho, Aharon; and Wachs, Reuven (Roman), to Makhteshim Chemical Works Ltd. Curing of polyester compositions. 3,480,561, 11-15-69, Cl. 252-428.
Abrahams, David H.; and Goldberg, Leo, to Dexter Chemical Corporation. Process of making uron resins and products thereof including modified textile fabrics. 3,445,279, 5-20-69, Cl. 117-143.
Abrahams, Norman. Battery tester. 3,454,873, 7-8-69, Cl. 324-29.5
Abrahamsen, Thomas C. Word building game apparatus with two-sided playing board. 3,427,028, 2-11-69, Cl. 273-135.
Abrahamson, Ardell J. Wide-angle single picture system for vision in depth. 3,460,882, 8-12-69, Cl. 350-144.
Abrahamson, Clifford A., to General Mills, Inc. Marking device. 3,481,677, 12-2-69, Cl. 401-198.
Abrahamsson, Sixten, to Incentive Research and Development AB. X-ray goniometers having a film carrier which automatically translates relative to a fixed X-ray source and a rotating crystal support. 3,466,438, 9-9-69, Cl. 250-51.5
Abram, Leo: *See—*
Lightbody, Eric William; and Abram, Leo,3,483,396.
Abramitis, Walter W., to Armour Industrial Chemical Company, mesne. Long chain amine salts as plant growth regulators. 3,460,936, 8-12-69, Cl. 71-76.
Abramoff, Charles: *See—*
Hecker, Arthur C.; and Abramoff, Charles,3,472,813.
Abramowitz, William L. Spray gun massager. 3,476,105, 11-4-69, Cl. 128-65.
Abrams, Abraham. Reciprocating lint-removing device for knitting machine. 3,422,640, 1-21-69, Cl. 66-168.
Abrams, Harold B. Applicator for the placement of elastic bands on orthodontic appliances. 3,475,818, 11-4-69, Cl. 32-66.
Abrams, Irving M.: *See—*
Bufton, Richard G.; Abrams, Irving M.; and Burnett, Fredrick L., III,3,423,336.
Abrams, Paul S. Marking device. 3,459,484, 8-5-69, Cl. 401-206.
Abramson, Andrew E.; and Kitchar, Andrew F., to Research, Incorporated, mesne. Machine alignment in strip joining. 3,447,994, 6-3-69, Cl. 156-502.
Abramson, Andrew E.; and Kitchar, Andrew F., to Research, Incorporated, mesne. Apparatus for lap joinder of plastic sheets. 3,472,721, 10-14-69, Cl. 156-366.
Abramson, Daniel J.Surgeon's drain. 3,430,631, 3-4-69, Cl. 128-350.
Abramson, Fred P.: *See—*
Futrell, Jean H.; Abramson, Fred P.; and Miller, Carroll D.,3,487,208.
Abramson, Harvey J., to American Technical Machinery Corporation. Automatic heat sealing device. 3,449,887, 6-17-69, Cl. 53-76.
Abramson, Paul, to International Business Machines Corporation. Oscillator apparatus for generating tone frequencies. 3,427,569, 2-11-69, Cl. 331-117.
Abramson, Paul; and Stilwell, George R., Jr., to International Business Machines Corporation. Cyclically scanned remote element operating system with answer back. 3,440,607, 4-22-69, Cl. 340-163.
Abramyan, Evgeny Aramovich; Vasserman, Sakko Borisovich; Gaponov, Vasily Alexandrovich; and Krainov, Gennady Sergeevich. Charged particle pulse accelerator incorporating a Tesla coil. 3,450,996, 6-17-69, Cl. 328-233.
Abrasive Developments Limited: *See—*
Ashworth, Colin Trevor, 3,426,378.
Abrasive Products, Inc.: *See—*
Johnson, William L., 3,469,958.
Abreu, Julio Oscar. Holder for dentist's instruments. 3,430,345, 3-4-69, Cl. 32-46.
Abromavage, John C.; and Frader, Edward A., to Arcoa, Incorporated. Safety chain locking clasp. 3,464,720, 9-2-69, Cl. 280-457.
Abromavage, John C.; and Reichardt, Harry J., to Arcoa, Incorporated. Articulated bumper hitch. 3,436,100, 4-1-69, Cl. 280-502.
Abromavage, John C.; and Reichardt, Harry J., to Arcoa, Incorporated. Rivet bucker assembly. 3,442,112, 5-6-69, Cl. 72-391.
Abromavage, John C.; and Reichardt, Harry J., to Arcoa, Incorporated. Combination crimping and testing assembly. 3,464,246, 9-2-69, Cl. 72-31.
Abronson, Charles J., to Aerojet-General Corporation. Dual channel radiometer. 3,466,654, 9-9-69, Cl. 343-100.
Abruzzo, Joseph; Cox, Andrew P., Jr.; and Hollandbeck, Raymond F., to Westinghouse Electric Corporation. Navigation system. 3,460,060, 8-5-69, Cl. 340-4.
Absolon, Eric W.; and Bowman, George H., to Avery-Hardoll Limited, and Beck & Company (Meters) Limited. Price computing devices for liquid dispensing apparatus. 3,478,927, 11-18-69, Cl. 222-31.
Abson, Derek: *See—*
Taylor, Richard Perry; and Abson, Derek,3,479,336.
Abt, Ronald C., to Cincinnati Milling Machine Co., The. Automatic centrifuge apparatus. 3,430,851, 3-4-69, Cl. 233-19.
Abt, Ronald C.; and Adams, Robert R., to Cincinnati Milling Machine Co., The. Tool electrode for electro-erosive machinery. 3,427,239, 2-11-69, Cl. 204-284.
Abu-Akeel, Abdulhadi K., to Bendix Corporation, The. Rotating inertia reducing means for a brake disc. 3,478,850, 11-18-69, Cl. 188-218.
Abu-Akeel, Abdulhadi K., to Bendix Corporation, The. Brake assembly including counter rotating discs. 3,482,654, 12-9-69, Cl. 188-72.
ABU Aktiebolag: *See—*
Murvall, Ake Eugen, 3,436,033.
Nurmse, Karl, 3,478,978.
Accary, Andre; Magnier, Pierre; and Marchal, Michel, to Commissariat a l'Energie Atomique. Method of extruding metallic carbides and in particular uranium monocarbide. 3,428,717, 2-18-69, Cl. 264-0.5
Access Corporation: *See—*
Parry, Robert D., 3,478,877.
Accessory Products Co.: *See—*
Linsalato, Oronzo L., 3,487,348.
Accetta, Anthony F. Mixing syringe. 3,470,874, 10-7-69, Cl. 128-173.1
Acciani, Joseph A. Hair clippers. 3,426,428, 2-11-69, Cl. 30-202.
Acciarri, Jerry A., to Continental Oil Company. Preparation of aluminum alkyls. 3,445,494, 5-20-69, Cl. 260-448.
Acciarri, Pietro: *See—*
Rennie, Compton Alexander; Lockett, George Edward; and Acciarri, Pietro,3,427,220.

Accles & Pollock Limited: *See—*
Hackett, Leslie Charles, 3,476,388.
Accountius, Oliver E., to North American Rockwell Corporation. Process for making graphitic-type fibers. 3,443,899, 5-13-69, Cl. 23-209.1
Accum-Matic Systems, Inc.: *See—*
Broser, Richard, 3,477,560.
Accumulatorenfabrik Sonnenschein G.m.b.H.: *See—*
Jache, Otto, 3,449,166.
Accurate Electronics Co.: *See—*
Signorile, Eugene R., 3,421,143.
Accurate Finishing Tools Co., Inc.: *See—*
Niedzielski, Albert; and Noll, Robert F., 3,428,058.
Ace Bingo, Inc.: *See—*
Herring, Mark, 3,468,541.
Ace Engineering & Machine Co., Inc.: *See—*
Schaller, Clarence Randall, Jr., 3,437,735.
Ace Engineering Co.: *See—*
Smith, Gus T., 3,423,963.
Aceto, Mario D.; Harris, Louis C.; Lands, Alonzo M.; and Alexander, Ernest John, to Sterling Drug Inc. N-Benzyl-N-methyl-omega-phenyl-omega- cycloalkyl-lower-alkyl-amines. 3,485,873, 12-23-69, Cl. 260-570.5
ACF (Amsterdam Chemie Farmacie) N.V.: *See—*
Van Der Meer, Samuel; and Pouwels, Hendrik, 3,439,069.
ACF Chemiefarma N.V.: *See—*
Van der Meer, Samuel; Kruyt, Willem; and Pouwels, Hendrik, 3,482,016.
ACF Industries, Incorporated: *See—*
Anderson, Clifford E.; and Brown, David W., 3,422,328.
Anderson, Clifford E.; and Zacharias, Ellis M., Jr., 3,422,329.
Anderson, Clifford E.; and Lowrey, William E., 3,442,286.
Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L., 3,451,724.
Carlson, Harold A.; and Szwargulski, Alex N., 3,471,123.
Carney, John L., Jr.; and Dugge, Richard H., 3,476,042.
Casey, Edward H.; and McConnell, Charles K., 3,482,558.
Charles, Asa Franklin, 3,421,452.
Cordani, Eugene J.; and Sittner, Edward H., 3,431,868.
Cordani, Eugene J., 3,464,368.
Coyle, Edward L.; and Kemp, Willard E., 3,486,241.
Davis, Rooney W., 3,483,826.
Geyer, Wallace T.; and Coyle, Edward L., 3,468,300.
Hammonds, James C., 3,479,969.
Kasprzycki, Joseph T.; and Holden, Roy J., 3,450,066.
Keene, William C., 3,427,994.
Kemp, Willard E.; and Grim, David P., 3,471,043.
McGrath, Earle, 3,459,316.
McGrath, Earle, 3,483,830.
Natho, Paul J., 3,463,446.
Nelson, Norman A.; Tooley, Henry C.; Eilers, Barney A.; and Helenberg, John, 3,463,449.
Nelson, Norman A., 3,466,001.
O'Leary, Walter E., 3,437,056.
O'Leary, Walter E.; Thornton, Duane V.; and Buckthorpe, Tom C., 3,440,971.
Oliver, Alton D.; and Carter, Gerald E., 3,463,185.
Packard, Leslie M.; and Chance, Maynard R., 3,432,374.
Reagan, Harold D., 3,484,079.
Rollins, Dallas W., 3,424,107.
Rollins, Dallas W., 3,434,683.
Rollins, Dallas W., 3,444,825.
Simpson, Donald D.; and Hennemann, Raymond G., 3,484,084.
Stewart, Joseph T., Jr., 3,421,733.
Szwargulski, Jesse L., 3,486,742.
Terlecky, Boris S., 3,446,364.
Voros, Donald F., 3,429,083.
White, Jack M., 3,443,519.
White, Jack M., 3,486,491.
Works, Madden T., 3,463,450.
Works, Madden T.; and Tooley, Henry C., 3,486,734.
Wrausmann, Richard C.; and Arentsen, William R., 3,452,590.
A C F (Amsterdam Chemie Farmacie): *See—*
Alberda, Gerrit, 3,422,195.
Ach, Rene. Figure shaped blocks with integral connectors. 3,477,167, 11-11-69, Cl. 46-22.
Achard, Rene Victor Julien; and Crenne, Noel, to Rhone-Poulenc S.A. Process for preparing phenols. 3,437,696, 4-8-69, Cl. 260-613.
Achelis, Frederic; Brown, Roy J.; Sherman, Roger M.; and Bibb, William M., to Kor-it Company, Inc., The. Drilling apparatus. 3,461,750, 8-19-69, Cl. 77-14.
Achelpohl, Fritz, to Wendmoller & Holscher. Apparatus for pulling open the ends of tube sections of plastic material sheeting. 3,446,121, 5-27-69, Cl. 93-28.
Achelpohl, Fritz, to Windmoller & Holscher. Process and apparatus for manufacturing crossed- bottom sacks from plastics material sheeting. 3,466,980, 9-16-69, Cl. 93-8.
Achenbach, Karl, to FMC Corporation. Process for etching printed circuits. 3,463,733, 8-26-69, Cl. 252-79.4
Achenbach, Karl: *See—*
Reinhardt, Helmut; Nauroth, Peter; and Achenbach, Karl,3,473,890.
Reinhardt, Helmut; Nauroth, Peter; and Achenbach, Karl,3,480,390.
Achenbach Sohne G.m.b.H.: *See—*
Barten, Ernst Heinrich, 3,441,234.
Achermann, Franz: *See—*
Achermann, Werner; and Achermann, Franz,3,434,435.
Achermann, Werner; and Achermann, Franz. Propping means for packing and transporting requisites. 3,434,435, 3-25-69, Cl. 108-56.
Acheson, Willard P.; and Torcaso, Michael A., to Gulf Research & Development Company. Plasma drilling. 3,467,206, 9-16-69, Cl. 175-13.
Achey, Henry Norwood. Flush valve mechanism. 3,428,965, 2-25-69, Cl. 4-41.
Achiwa, Kazuo: *See—*
Yamada, Shunichi; Achiwa, Kazuo; Terashima, Shiro; and Iwaki, Akio; said,3,422,135.
Achler, Howard S.; and Kaufmann, Harold, to Kaufmann Tool and Engineering Corporation. Rolling machine. 3,438,232, 4-15-69, Cl. 72-166.
Achler, Howard S.; and Kaufmann, Harold, to Kaufmann Tool and Engineering Corporation. Two-roll machine for rolling sheet metal. 3,478,555, 11-18-69, Cl. 72-166.
Achler, Howard S.; and Kaufmann, Harold. Spring-stripper for use with punches, dies and the like. 3,485,122, 12-23-69, Cl. 83-139.
Achterfeld, Horst: *See—*
Maatsch, Jurgen; Achterfeld, Horst; and Kamphaus, Hartmut,3,457,787.
Achterling, Harold J.; Prosa, Aldo C.; Spencer, Donald J.; and Berry, Robert C. Rule inserting apparatus for linecasting machines. 3,441,124, 4-29-69, Cl. 199-61.
Achuff, Nancy E.: *See—*
Wood, Thomas F.; and Achuff, Nancy E.,3,442,640.
Acker, Eric O., Jr.: *See—*
Acker, Eric O., Sr.; Acker, Eric O., Jr.; and Acker, Ronald W.,3,431,613.
Acker, Eric O., Sr.; Acker, Eric O., Jr.; and Acker, Ronald W., to Acker Industries, Inc. Sheet material forming machine. 3,431,613, 3-11-69, Cl. 29-6.2
Acker, Eric O. Slitting machine. 3,470,782, 10-7-69, Cl. 83-451.
Acker, Harold P. Retractable clothes storage apparatus. 3,467,460, 9-16-69, Cl. 312-242.
Acker Industries, Inc.: *See—*
Acker, Eric O., Sr.; Acker, Eric O., Jr.; and Acker, Ronald W., 3,431,613.
Acker, Norbert Karl. Device for the automation of cash stations in sales establishments. 3,428,959, 2-18-69, Cl. 340-172.5
Acker, Richard C.; Bahniuk, Eugene; and Kozulla, Robert E., to Weatherhead Company, The. Rupturable diaphragm coupling. 3,466,065, 9-9-69, Cl. 285-3.
Acker, Ronald W.: *See—*
Acker, Eric O., Sr.; Acker, Eric O., Jr.; and Acker, Ronald W.,3,431,613.
Acker, William L.; and Boezi, Peter. Connector assembly for axially connecting rods and tubing. 3,443,827, 5-13-69, Cl. 285-39.
Ackeren, Joseph Van, to Koppers Company, Inc. High chambered coke oven. 3,433,714, 3-18-69, Cl. 202-135.
Ackerman, Abram; and Schneider, Kurt H., to A & M Instrument, Inc. Photoelectric system for detecting meter pointer position. 3,446,981, 5-27-69, Cl. 250-231.
Ackerman, Bernard, to Electro-Catheter Corporation. Cardiac catheterization apparatus and method. 3,485,247, 12-23-69, Cl. 128-418.
Ackerman, Carl D.; and Hill, John K., to Gulf Research & Development Company. Density measuring apparatus. 3,481,203, 12-2-69, Cl. 73-438.
Ackerman, Daniel W.; and Holmes, Robert H., to Universal Instruments Corporation. Module insertion machine. 3,442,430, 5-6-69, Cl. 227-2.
Ackerman, Daniel W.; Holmes, Robert H.; and Ragard, Phillip A., to Universal Instruments Corporation. Component sequencing and insertion apparatus. 3,455,493, 7-15-69, Cl. 227-90.
Ackerman, Ernest B., to Spectra International, Inc. Solar heated column still. 3,436,315, 4-1-69, Cl. 202-153.
Ackerman, Ernest B. Recovery of electroplate utilizing molten lead. 3,442,643, 5-6-69, Cl. 75-63.
Ackerman, George H., to Missouri-Rolling Mill Corporation. Packaging means. 3,472,366, 10-14-69, Cl. 206-56.
Ackerman, Harry J. Card dispenser having a plurality of sources and a plurality of card ejectors. 3,445,035, 5-20-69, Cl. 221-129.
Ackerman, James H., to Sterling Drug Inc. N-Alkylated-acylaminotriiodophenylalkanoic acids. 3,452,084, 6-24-69, Cl. 260-515.
Ackerman, Joseph Francis; and Shur, Eliakum Gustave, to Interchemical Corporation. Low temperature curable wood coating composition. 3,444,113, 5-13-69, Cl. 260-21.
Ackerman, Myron H., to Collins & Aikman Corporation. Necktie lining and neckwear construction. 3,426,360, 2-11-69, Cl. 2-146.

Ackerman, Stanley C. Manufacture of coiled lamp filaments. 3,461,921, 8-19-69, Cl. 140-71.5

Ackermann, Hans; Frei, Hermann; and Meindl, Hubert, to Geigy, J. R., A.G. 2,4-Dihalogeno-pyrimidine-5-carbamyl-substituted reactive dyes. 3,433,781, 3-18-69, Cl. 260-146.

Ackermann, Horst: *See*—
Bippus, Walter; Ackermann, Horst; and Hordler, Gisbert,3,456,421.

Ackermann, Jacob; and Radici, Pierino, to Societa Italiana Resine S.p.A. Method of stabilizing polyoxymethylenes. 3,459,709, 8-5-69, Cl. 260-67.

Ackermann, Jakob, to Societa-Italiana Resine S.p.A. Process for preparing formaldehyde. 3,436,423, 4-1-69, Cl. 260-606.

Ackermann, Karl, to Bosch, Robert, Elektronik GmbH. Device for recharging power cells and reactivating electrolytic capacitors. 3,434,029, 3-18-69, Cl. 320-1.

Ackermann, Othmar: *See*—
Drager, Kurt; and Ackermann, Othmar,3,470,294.

Ackermann, Othmar, to Behringwerke Aktiengesellschaft. Sprayable or subcutaneously administrable vaccine for the immunization of mustelines against distemper and process for its preparation. 3,420,934, 1-7-69, Cl. 424-89.

Ackermann, Russell A., Jr., to Cincinnati Milling Machine Co., The. Amide impregnated grinding wheels. 3,471,277, 10-7-69, Cl. 51-295.

Ackermanu u. Schmitt K.G.: *See*—
Csaki, Joachim, 3,456,698.

Ackley, Edward L. High speed rotary hydraulic motor. 3,421,412, 1-14-69, Cl. 91-87.

Ackley, Edward L. Valved, fluid-operated actuator assembly. 3,476,015, 11-4-69, Cl. 91-401.

Ackley, Edward M., to Slevin, Julian B., Co., Incorporated. Apparatus for forming and attaching full cell inserts to bottle carriers. 3,429,235, 2-25-69, Cl. 93-37.

Ackley, James W., to Varian Associates. High voltage D.C. converter cathode supply circuit having means for controlling the voltage to the cathode. 3,442,252, 5-6-69, Cl. 118-50.1

Ackroyd, Muriel D., to Eastman Kodak Company. Triplet-type projection lens. 3,443,864, 5-13-69, Cl. 350-226.

Aclin, John J.; and Junker, Joseph F., to Olin Mathieson Chemical Corporation. Gas generator. 3,464,355, 9-2-69, Cl. 102-39.

Acme Abrasive Co.: *See*—
Markotan, Robert J., 3,476,537.

Acme Appliance Manufacturing Company: *See*—
Kellems, Kenneth K., 3,450,426.

Acme Highway Products Corporation: *See*—
Bowman, Thomas C., 3,482,492.
Crone, Alfred F., 3,469,511.
Sharpe, James F., 3,466,988.

Acme Industries, Inc.: *See*—
Greenfield, John B., 3,424,442.

Acme Lane Company: *See*—
Pabich, Richard W.; and Treiber, Richard W., 3,429,013.

Acme Markets, Inc.: *See*—
Robison, Fred E.; and Cochran, Kenneth C., 3,478,386.

Acme Precision Products, Inc.: *See*—
McCarroll, Raymond A., 3,486,552.

Acme Quilting Company, Inc.: *See*—
Goldman, Herbert S., 3,477,552.

Acme Visible Records, Inc.: *See*—
Shaw, John S.; Dostel, John J.; White, Donald K.; Elste, Edwin S.; Kellogg, John F.; and O'Neale, John D., 3,460,827.
Welch, Newell G., 3,444,448.

Acme-Cleveland Corporation: *See*—
Hulslander, Gary L., 3,482,619.

Acme-Danneman Company, Inc.: *See*—
Wendler, John C., 3,434,760.

Acme-Hamilton Manufacturing Corporation: *See*—
Bauman, Joseph F.; and Rette, Stanley P., 3,430,292.

Acord, Jerry E., to Northrop Corporation. Limit switch actuator. 3,423,554, 1-21-69, Cl. 200-153.

Acord, Jerry E., to Northrop Corporation. Quick disconnect electrical plug. 3,430,184, 2-25-69, Cl. 339-45.

Acorn Anodising Company Limited: *See*—
Kape, James M., 3,472,744.

Acosta, William A. Filter element and filter system. 3,421,630, 1-14-69, Cl. 210-411.

Acra Electric Corporation: *See*—
Hummel, Matt N., 3,453,417.

Acree, Elick H.; and Case, Forrest N., to United States of America, Atomic Energy Commission. Method for tagging sand with a gaseous radioactive isotope. 3,426,205, 2-4-69, Cl. 250-106.

Acs, Erno, to Tavkozlesi Kutato Intezet. Method of, and equipment for time-divided, asynchronous, address-coded transmission of information in multi-channel systems. 3,422,226, 1-14-69, Cl. 179-15.

ACSA Applicazioni Chimiche S.p.A.: *See*—
Mazzolini, Corrado; and Denti, Francesco, 3,424,833.
Melacini, Paolo; and Trevisi, Silvio, 3,440,148.
Polacco, Ezio; and Denti, Francesco, 3,444,682.

Activa Corporation: *See*—
Harris, Fritz B., 3,468,414.

Acton, Daniel D., to Anchor Hocking Glass Corporation. Closure cap and sealed package. 3,465,908, 9-9-69, Cl. 215-44.

Acton, Daniel D., to Anchor Hocking Glass Corporation. Lug type closure cap having tear-off skirt portion. 3,469,727, 9-30-69, Cl. 215-42.

Acton, Daniel D.; and Pflieger, Orin L., to Anchor Hocking Corporation. Method and apparatus for forming and inserting liners in closures. 3,466,731, 9-16-69, Cl. 29-429.

Acton, Donald J.: *See*—
Kelly, Franklin G.; and Acton, Donald J.,3,459,999.

Acton, Edward M.: *See*—
Mosher, Carol W.; Acton, Edward M.; and Goodman, Leon,3,468,886.

Acton, Hugh C., to Brunswick Corporation. Wall wardrobe. 3,427,086, 2-11-69, Cl. 312-245.

Acton, John R.; and Turton, Peter, to Plessey Company Limited, The. Oscillator controlled switching circuit. 3,461,316, 8-12-69, Cl. 307-241.

Acton Rubber Limited, The: *See*—
Lamarche, Raymond B., 3,455,036.

Acushnet Process Company, and 1/2 to: *See*—
Frig, Gerald E.; Heuston, Philip T.; and Thumudo, Mario F., Jr., 3,425,067.

Adachi, Hiroshi: *See*—
Yamada, Masami; Tamura, Michio; and Adachi, Hiroshi,3,437,482.

Adachi, Kazuo; Kawai, Masahisa; and Hoshikawa, Masakatsu, to Tekkosha Co., Ltd. Process for producing beta crystal phase, 6,13-dihydroquinacridone. 3,433,790, 3-18-69, Cl. 260-279.

Adachi, Koyoshi: *See*—
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira,3,458,987.

Adachi, Saburo: *See*—
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi,3,457,226.
Miyake, Yasuhiko; Adachi, Saburo; Yamauchi, Norifumi; Hayashi, Toshio; and Akimoto, Masamichi,3,426,041.

Adachi, Shizuo R.: *See*—
Wile, Daniel D.; Adachi, Shizuo R.; and Brainard, David S.,3,429,139.

Adachi, Susumu: *See*—
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.

Adachi, Taiichi: *See*—
Kudo, Shiro; Mihara, Yoshihisa; Adachi, Taiichi; Tsurugi, Shinichi; Usuku, Tomoatsu; and Wada, Isamu,3,476,796.

Adachihara, Shynich: *See*—
Takenaka, Haruo; Ooba, Seichi; Ikeda, Teppei; and Adachihara, Shynich,3,475,193.

Adage, Inc.: *See*—
Lucas, Paul G.; and Talambiras, Robert P., 3,470,487.

Adage, Incorporated: *See*—
Max, Solomon Mannes, 3,483,550.

Adair, Frank M.; and De Boo, Emil A., to Western Electric Company, Incorporated. Method and mechanism for severing the gate in injection-type molds. 3,443,001, 5-6-69, Cl. 264-161.

Adair, James C., to Shell Oil Company. Acoustic method for mapping the surface characteristics of a borehole. 3,474,879, 10-28-69, Cl. 181-0.5

Adair, James C.; Baier, William E., Jr.; Gilmore, Ronald P.; and Wottlin, William O., to Shell Oil Company. Proximity profiler. 3,483,505, 12-9-69, Cl. 340-15.5

Adair, James Richard, to United Engineering and Foundry Company. Roll changing device for rolling mills. 3,438,234, 4-15-69, Cl. 72-238.

Adair, James Richard, to United Engineering and Foundry Company. Cooling device for workpieces, such as rod bundles. 3,442,029, 5-6-69, Cl. 34-105.

Adair, James Richard, to United Engineering and Foundry Company. Rolling mill. 3,459,023, 8-5-69, Cl. 72-238.

Adam, Arthur Mylne, to Marconi Company Limited, The. Direct viewing storage cathode ray tube circuit arrangement. 3,427,493, 2-11-69, Cl. 315-12.

Adam, Charles R.; and West, Robert E., to Cascade Industries, Incorporated. Swimming pool wall construction. 3,440,780, 4-29-69, Cl. 52-169.

Adam, Gunter: *See*—
Marker, Hannes; and Adam, Gunter,3,432,179.

Adam, Gunter, to Marker, Hannes. Heel holder for safety ski bindings. 3,473,817, 10-21-69, Cl. 280-11.35
Scheib, Hermann; and Adam, Gunter,3,428,329.

Adam, Ian Ross, to International Standard Electric Corporation. Wear compensated rubber thermostat. 3,423,714, 1-21-69, Cl. 337-382.

Adam, Karl; and Haarer, Erich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of catalysts containing cobalt. 3,475,344, 10-28-69, Cl. 252-432.

Adam, Karl; and Haarer, Erich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Hydrogenation of alkynols and alkynediols. 3,479,411, 11-18-69, Cl. 260-635.

Adam, Karl; and Haarer, Erich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of amines from aldehydes or ketones. 3,483,253, 12-9-69, Cl. 260-563.

Adam, Karl; Haarer, Erich; and Dorfner, Konrad, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alcohols by catalytic hydrogenation of carboxylic acids. 3,478,112, 11-11-69, Cl. 260-617.

Adam, Karl; Schulz, Alfred; Haarer, Erich; and Winderl, Siegfried, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of adiponitrile. 3,476,793, 11-4-69, Cl. 260-465.8

Adam, Lewis; and Lanes, Stanley S., to Blaw Associates. Ultrasonic egg cleaning. 3,440,094, 4-22-69, Cl. 134-1.

Adam, Miloslav: *See—*
Chvapil, Milos; Krajicek, Milan; and Adam, Miloslav,3,425,418.

Adamache, Ion; and Iacob, Ioan, to Ministerul Petrolului. Recuperable packer. 3,469,629, 9-30-69, Cl. 166-182.

Adamation Inc.: *See—*
Weihe, Clyde R., Jr., 3,484,811.

Adamec, Alfred, to Wiener Schwachstromwerke Gesellschaft m.b.H. Method for degassing metallic melts by sonic vibrations. 3,434,823, 3-25-69, Cl. 75-10.

Adamek, John A.; Fantuzzo, Joseph; and Punnett, Frazer D., to Xerox Corporation. Fusing device. 3,449,548, 6-10-69, Cl. 219-216.

Adamek, Stephen; and Wood, Bertie B. J., to Dunlop Company Limited, The. Process for the preparation of polyepisulphides. 3,427,285, 2-11-69, Cl. 260-67.

Adamek, Stephen; and Wood, Bertie B. J., to Dunlop Company Limited, The. Episulfide-modified epoxide polymer compositions and method of preparation. 3,439,062, 4-15-69, Cl. 260-830.

Adamovske Strojirny, narodni podnik: *See—*
Janecek, Jaroslav; and Muselik, Miloslav, 3,467,372.
Stepanek, Karel; and Burda, Laidslav, 3,456,523.

Adams, Albert H.: *See—*
Ginaven, Marvin E.; and Adams, Albert H.,3,460,466.

Adams, Alden W., Jr.: *See—*
Lehmann, Guenther W.; and Adams, Alden W., Jr.,3,448,712.

Adams, Andrew C.: *See—*
Grishin, Peter F.; and Adams, Andrew C.,3,472,013.

Adams, Andrew O.; Nelsen, Marvin G.; Tapp, David J.; and Schuessler, John C., to Leach Corporation. Armature and contact blade assembly for an electrical relay. 3,484,729, 12-16-69, Cl. 335-200.

Adams, Arthur C., to American Home Products Corporation. Process for the preparation of anhydrous ampicillin using silylated ampicillin acid salt. 3,479,338, 11-18-69, Cl. 260-239.1

Adams, Arthur C.; and Deist, Robert P., to American Home Products Corporation. Process for the preparation of anhydrous amplicillin. 3,487,073, 12-30-69, Cl. 260-239.1

Adams, Campbell V., to Vulcan Iron Works Inc. Percussion hammer. 3,455,208, 7-15-69, Cl. 91-352.

Adams, Cecil E.; Griffith, Randall E.; Miller, Charles R.; and Wilcox, Jack W., to Abex Corporation. Vane tracking in hydraulic pumps. 3,481,276, 12-2-69, Cl. 103-136.

Adams, Cecil E.; and Hedge, John F., to Abex Corporation. Rotary vane fluid power unit. 3,421,413, 1-14-69, Cl. 91-135.

Adams, Cecil E.: *See—*
Roll, Jack A.; and Adams, Cecil E.,3,426,856.

Adams, Cecil L.: *See—*
Balogh, Stephen; and Adams, Cecil L.,3,434,597.

Adams, Charles R.; Falbe, Jurgen F.; and Korte, Friedrich W.A.G.K., to Shell Oil Company. Alkylpyridine production. 3,433,792, 3-18-69, Cl. 260-290.

Adams, Clarence R., to Boeing Company, The. Self-leveling air bearing fixture. 3,432,213, 3-11-69, Cl. 308-5.

Adams, Clarence R., to Boeing Company, The. Vertical motion positioning system. 3,465,644, 9-9-69, Cl. 91-49.

Adams, Clarence W.; and Matsuyama, George, to Beckman Instruments, Inc. Oxygen sensor with rhodium cathode. 3,449,231, 6-10-69, Cl. 204-195.

Adams, Clark, Corp.: *See—*
Carpenter, Frederick A.; and Stark, Forest G., 3,421,801.

Adams, Clark N., to Friden, Inc. Multilayer contact system for semiconductors. 3,465,211, 9-2-69, Cl. 317-234.

Adams, Clyde M., Jr.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,420,978.
Clarke, John F.; and Adams, Clyde M., Jr.,3,476,579.

Adams, Dolor N., to Riddet Company, mesne. Process of conditioning the surface of a lithographic press member. 3,459,594, 8-5-69, Cl. 134-42.

Adams, Dolor N.; and Fauser, Donald L., to Harris-Intertype Corporation. Electrophotographic coating containing finely divided photoconductor in a synthetic polymer having ionizable functional groups. 3,471,625, 10-7-69, Cl. 96-1.8

Adams, Dolor N.; Sorkin, Jack L.; and Thomas, Daniel C., to Riddet Company. Lacquer emulsion for presensitized lithographic plates. 3,455,688, 7-15-69, Cl. 96-33.

Adams, Donald J.: *See—*
Sowder, Tony R.; and Adams, Donald J.,3,486,462.

Adams, E. A., & Son, Inc.: *See—*
Kettell, Philip E., 3,483,715.

Adams, Elizabeth F.; and DuPont, Anthony W., Jr. Combined cigarette receiver, extinguisher and discarder. 3,477,444, 11-11-69, Cl. 131-235.

Adams, Ernest Clarence, Jr.; and Yoder, John Menley, to Miles Laboratories, Inc. Chorionic gonadotropin purification process. 3,453,363, 7-1-69, Cl. 424-100.

Adams, Ernest Clarence, Jr.: *See—*
Yoder, John Menley; and Adams, Ernest Clarence, Jr.,3,446,598.

Adams, Frederick John, to Cam Gears Limited. Rack and pinion assemblies. 3,421,387, 1-14-69, Cl. 74-498.

Adams, George D., to United States of America, National Acronautics and Space Administration. Evaporant source for vapor deposition. 3,466,424, 9-9-69, Cl. 219-275.

Adams, George Mellen; and Tijunelis, Donatas, to Union Carbide Corporation. Anti-fogging film comprising vinyl chloride polymer, glycerol monostearate and incompatible plasticizer. 3,425,976, 2-4-69, Cl. 260-23.

Adams, Gerald M.: *See—*
Abend, Chester J.; Adams, Gerald M.; and Younge, Paul Dennis,3,486,322.

Adams, Graham R.: *See—*
Porterfield, Cecil P.; and Adams, Graham R.,3,475,674.

Adams, Graham R., to Park-Ohio Industries, Inc. Inverter for induction heating use. 3,466,528, 9-9-69, Cl. 321-45.

Adams, Harold E, to Nash Engineering Company, The. Vaporizable liquid storage receiver recovery method. 3,421,289, 1-14-69, Cl. 55-89.

Adams, Harry A., to Standard Oil Company, The (Ohio). Electrical energy storage device comprising aluminum-lithium electrode and mechanical screen surrounding the electrode. 3,428,493, 2-18-69, Cl. 136-100.

Adams, Harry E., to Control Equipment Corporation. Flow velocity and direction sensor. 3,420,101, 1-7-69, Cl. 73-189.

Adams, J. D., Co.: *See—*
Adams, James D., 3,430,943.

Adams, James D., to Adams, J. D., Co. Apparatus for turning truss jig. 3,430,943, 3-4-69, Cl. 269-20.

Adams, James E. Cleaning attachment for spray painting device. 3,460,757, 8-12-69, Cl. 239-119.

Adams, James R., to United-Carr Incorporated, mesne. Webbing fastener. 3,427,693, 2-18-69, Cl. 24-222.

Adams, James William; and Hoftiezer, Henry Wilbert, to American Can Company. Plant growth medium. 3,467,609, 9-16-69, Cl. 260-17.4

Adams, James: *See—*
Shannon, Jack F.; and Adams, James,3,422,675.

Adams, Joan M.: *See—*
Block, Harry W.; Adams, Joan M.; and Finucane, Thomas P.,3,476,571.

Adams, John L. Engine for converting energy by thermal expansion of solids. 3,430,441, 3-4-69, Cl. 60-23.

Adams, John M.: *See—*
Reis, Joseph W.; and Adams, John M.,3,451,297.

Adams, John N., Jr.; Martin, Bill G.; and Brown, James O., to Combustion Engineering, Inc. Fuel-air combustion adjustment. 3,481,681, 12-2-69, Cl. 431-202.

Adams, John Q.: *See—*
Koblin, Abraham; Woolfridge, Alfred L.; and Adams, John Q.,3,475,965.
Manley, Brian William; and Adams, John,3,487,258.

Adams, Karl. Valve. 3,442,488, 5-6-69, Cl. 251-305.

Adams, Katharen B. Rack for electrical cords. 3,477,585, 11-11-69, Cl. 211-60.

Adams, Kenneth D., to Singer Company, The. Trimming device. 3,476,003, 11-4-69, Cl. 83-357.

Adams, Kenneth D.: *See—*
Off, Joseph W. A.; Adams, Kenneth D.; and Raudonis, John A., Jr.,3,420,515.

Adams, Leland D., Jr., to Hendry, C. J., Company. Lifeboat cover. 3,422,829, 1-21-69, Cl. 135-6.

Adams, Leonard, Jr., to Finn Industries, Inc., The. Cellular carton. 3,425,616, 2-4-69, Cl. 229-28.

Adams, Leonard, Jr., to Finn Industries, Inc., The. Cartons having self-forming, self-leveling bottoms. 3,443,739, 5-13-69, Cl. 229-39.

Adams, Leonard, Jr., to Finn Industries, Inc., The. Prewrap carton for high speed erection. 3,451,611, 6-24-69, Cl. 229-37.

Adams, Leonard, Jr., to Finn Industries, Inc., The. Prewrapped gift carton. 3,459,358, 8-5-69, Cl. 229-37.

Adams, Leonard, Jr.; and Richardson, Suvella, to Finn Industries, Inc., The. Prewrapped gift carton. 3,460,738, 8-12-69, Cl. 229-37.

Adams, Lester P. Sanding apparatus. 3,457,681, 7-29-69, Cl. 51-59.
Adams, Lester R.; and Lord, Philip A., to International Business Machines Corporation. Serial delay line buffer-translator. 3,466,432, 9-9-69, Cl. 235-154.
Adams, Lowell K.; and Davis, Albert D. Trolley spacing device. 3,450,060, 6-17-69, Cl. 104-250.
Adams, Loyd: *See—*
Paul, Lowell A.; and Adams, Loyd,3,429,459.
Paul, Lowell A.; and Adams, Loyd,3,484,001.
Adams, Max M., to General Electric Company. Electrical thermal flowmeter. 3,425,277, 2-4-69, Cl. 73-204.
Adams, Otis J., to Bartlett-Snow. Seal for rotating cylinder. 3,462,160, 8-19-69, Cl. 277-88.
Adams, Philip N., to Mueller Co., mesne. Pipe clamp device. 3,467,943, 9-16-69, Cl. 339-95.
Adams, Phillip; and Juliano, Benedict, to Millmaster Chemical Corporation. Preparation of substituted-2-4 dioxohexahydropyrimidines. 3,422,108, 1-14-69, Cl. 260-260.
Adams, Ralph D.; Borchert, Ernst, III; and Herzog, Robert P., to Omark-Winslow Aerospace Tool Co., mesne. Flow regulator. 3,421,542, 1-14-69, Cl. 137-504.
Adams, Ralph M.: *See—*
Jaffe, Henry L.; and Adams, Ralph M.,3,483,565.
Adams, Renard P. Suction backwash means for a low pressure, multiple element, filter assembly. 3,476,248, 11-4-69, Cl. 210-153.
Adams, Richard C.: *See—*
Isley, Ralph E.; Adams, Richard C.; and Ball, Lawrence E.,3,437,717.
Isley, Ralph E.; and Adams, Richard C.,3,437,628.
Isley, Ralph E.; and Adams, Richard C.,3,453,173.
Isley, Ralph E.; and Adams, Richard C.,3,476,643.
Adams, Richard G.; Cobianchi, John F.; and Roth, Alan, to Stevens, J. P., & Co., Inc. Method for selective heating in textiles with microwaves. 3,484,179, 12-16-69, Cl. 8-2.
Adams, Richard L. Safety electrical circuit for an automobile. 3,476,893, 11-4-69, Cl. 200-52.
Adams Rite Manufacturing Company: *See—*
Davidson, Robert E.; Eads, Charles L.; and Soter, Samuel A., 3,479,851.
Adams, Robert B.: *See—*
Moore, Coleman B.; and Adams, Robert B.,3,468,330.
Adams, Robert E.: *See—*
Ward, Wilfred T.; and Adams, Robert E.,3,466,137.
Adams, Robert J. Chip separator. 3,485,361, 12-23-69, Cl. 209-137.
Adams, Robert L., to Radio Corporation of America. Document handling apparatus. 3,432,035, 3-11-69, Cl. 209-74.
Adams, Robert R.: *See—*
Abt, Ronald C.; and Adams, Robert R.,3,427,239.
Adams, Robert T.; Levine, Irving E.; and Sweeney, William A., to Chevron Research Company. Biodegradable detergent alkylate having improved detergent properties. 3,433,846, 3-18-69, Cl. 260-671.
Adams, Robert V., to Bunker-Ramo Corporation, The. Method of continuously casting steel. 3,478,808, 11-18-69, Cl. 164-4.
Adams, Rodney A., to Catalysts and Chemicals, Inc. Napthalene and orthoxylene oxidation catalysts. 3,480,565, 11-25-69, Cl. 252-443.
Adams, Roger J., to Minnesota Mining and Manufacturing Company. Continuous method for making a polytetrafluoroethylene laminate. 3,486,961, 12-30-69, Cl. 156-306.
Adams, Ronald F.: *See—*
Ruzevick, Peter M.; Adams, Ronald F.; and Reynolds, Albert H.,3,425,954.
Adams, Ronald L.: *See—*
Benning, Calvin J.; and Adams, Ronald L.,3,470,119.
Adams, Roy C.: *See—*
Haimovitz, Leonard J.; and Adams, Roy C.,3,439,725.
Adams, Russell E., to Marshall, John Donald, and Bomar, Horace L., trustees of Carolina Patent Development Trust, The, mesne. Loom stopping device. 3,439,716, 4-22-69, Cl. 139-336.
Adams, Thomas E.; and Woolf, Raymond F., to Lockheed Aircraft Corporation. Differential relief valve. 3,448,663, 6-10-69, Cl. 91-451.
Adams, Ul. Fishing device. 3,456,378, 7-22-69, Cl. 43-42.48
Adams, Victor J., Jr., to Lockheed Aircraft Corporation. Rotor blade antenna inspection device. 3,478,353, 11-11-69, Cl. 343-708.
Adams, Victor J., Jr.; Goldberg, Lloyd W.; and Wolf, Herbert S., to Thiokol Chemical Corporation. Rocket thrust chamber. 3,462,954, 8-26-69, Cl. 60-228.
Adams, Whitney R.: *See—*
McConnell, Albert L.; Meisel, Fred W., Jr.; and Adams, Whitney R.,3,425,882.
McConnell, Albert L.; Pociluyko, Alexander; and Adams, Whitney R.,3,461,872.
Adams, Whitney R.; and Mack, Edgar O., to Scott Paper Company. Liquid-gas contact pads. 3,458,338, 7-29-69, Cl. 117-33.
Adams, William L., to Industrial Nucleonics Corporation. Dielectric materials gauging system with input signal frequency automatically variable in response to detected signal phase shift variation. 3,443,219, 5-6-69, Cl. 324-61.
Adams-Russell Co., Inc.: *See—*
Dolan, Leo J., 3,453,628.
Oleksiak, Joseph, 3,428,920.
Podell, Allen F., 3,431,361.
Podell, Allen F., 3,484,724.
Adamski, Joseph, to Dura Corporation. Bow control means for convertible top. 3,453,021, 7-1-69, Cl. 296-117.
Adamski, Max, Jr.: *See—*
Johnson, Bernard A.; Adamski. Max, Jr.; and Lichodziejewski, Wieslaw L.,3,457,791.
Adamski, Raymond. Outboard motor support. 3,486,724, 12-30-69, Cl. 248-4.
Adamson Alliance Company Limited, The: *See—*
Burrows, Stanley, 3,469,722.
Adamson, Floyd E.; and Frederick, James E., to Westinghouse Electric Corporation. Starting circuit for direct current arc welder. 3,459,996, 8-5-69, Cl. 315-205.
Adamson, James C., to American Motors Corporation. Device for signalling faulty performance of a vehicle braking system. 3,423,727, 1-21-69, Cl. 340-52.
Adamson, James L. Warning equipment mount for emergency vehicles. 3,460,728, 8-12-69, Cl. 224-42.1
Adamson, Robert G.; Angell, Charles H.; Roote, Jay C.; Hutchison, Joel F.; and Coberley, Daniel A., to Hurletron Incorporated. Electrostatically assisted intaglio printing. 3,477,369, 11-11-69, Cl. 101-153.
Adamson, Robert G.; and Thiede, Paul W., to Hurletron Incorporated. Digitalized print-to-cutoff register system. 3,468,201, 9-23-69, Cl. 83-74.
Adamson, Thomas E. Methods for producing textured fabric material. 3,466,718, 9-16-69, Cl. 28-72.
Adamson United Company: *See—*
Seanor, Rex C.; and Perlberg, S Everett, 3,447,201.
Seanor, Rex C.; and Lake, Charles G., 3,448,683.
Seanor, Rex C.; and Perlberg, S Everett, 3,448,967.
Adank, Kurt; and Prins, Daniel A., to Geigy Chemical Corporation. 5-(3'-Aminopropyl)-5-hydroxy-5,6,11,12-tetrahydrodibenzo[a,e]cyclooctenes and salts thereof. 3,452,095, 6-24-69, Cl. 260-570.8
Adcock, Edmund Philip; and Stanley, Joan Ann, to United Glass Limited. Container closures. 3,460,310, 8-12-69, Cl. 53-39.
Adcock, Frederick A., to Raleigh Industries Limited. Pedals. 3,485,113, 12-23-69, Cl. 74-594.4
Adcock, Frederick Arthur, to Raleigh Industries Limited. Pedals. 3,485,114, 12-23-69, Cl. 74-594.4
Adcock, Joseph N., to United Steel Companies Limited, The. Placing of reinforcement in concrete roads and the like surfaces. 3,421,419, 1-14-69, Cl. 94-39.
Addamiano, Arrigo, to General Electric Company. Silicon carbide phosphors. 3,470,107, 9-30-69, Cl. 252-301.4
Addie, Albert N.: *See—*
Dixon, John K.; Addie, Albert N.; McDowall, Charles J., and; and Oestrike, Wilfred C.,3,455,107.
Addie, Albert N.; and Hart, Jack P., to General Motors Corporation. Regenerator matrix frame. 3,435,888, 4-1-69, Cl. 165-9.
Addie, Albert N.; and Rose, Charles L., to General Motors Corporation. Regenerator matrix. 3,435,887, 4-1-69, Cl. 165-9.
Addin, Leo. Method and composition for the treatment of fruit trees. 3,431,676, 3-11-69, Cl. 47-58.
Addinall, Ramon Leonard; and Milbourne, Robert J., to Steel Company of Canada, Limited, The. Regeneration of waste pickle liquors. 3,442,608, 5-6-69, Cl. 23-154.
Addis, David J.; Brown, Walter R. J.; and Osman, Martin S., to United-Carr Incorporated, mesne. High speed thin film memory. 3,480,924, 11-25-69, Cl. 340-174.
Addis, Gilbert I., to Union Carbide Corporation. Recovery of metal from insulated electrical cable. 3,428,447, 2-18-69, Cl. 75-66.
Addison, Benjamin A.; Jennings, Erwin R.; and Gewecke, Theodore H. Method of forming a thermoplastic cast by vacuum. 3,467,086, 9-16-69, Cl. 128-90.
Addison, Harry. Liquid control valve. 3,463,191, 8-26-69, Cl. 137-625.29
Addleburg, John W.: *See—*
Teter, Robert M., Jr.; Addleburg, John W.; Rouse, Benjamin P., Jr.; and Snead, Charles D.,3,442,744.
Addmaster Corporation: *See—*
Clary, John G., 3,481,536.
Addor, Roger Williams, to American Cyanamid Company. Method of controlling pest with 2- dialkoxy-phosphinothioylimino-1,3-dithioles. 3,449,493, 6-10-69, Cl. 424-202.
Addor, Roger Williams, to American Cyanamid Company. 2-Lower alkyl carbamoyloxyimino-1,3-dithiole. 3,467,672, 9-16-69, Cl. 260-327.
Addor, Roger Williams, to American Cyanamid Company. Imino-1,3-dithietanes and their preparation. 3,470,207, 9-30-69, Cl. 260-327.
Addor, Roger Williams, to American Cyanamid Company. Alkali metal salts of phosphorus dithiocarbamates. 3,476,837, 11-4-69, Cl. 260-959.

Addor, Roger Williams, to American Cyanamid Company. 2-Imino-1,3-dithietanes and processes for their preparation. 3,484,455, 12-16-69, Cl. 260-327.
Addressograph-Multigraph Corporation: *See*—
Baltazzi, Evan S., 3,463,639.
Bialczak, Edward C., 3,420,665.
Bialczak, Edward C.; and Murphy, William S., 3,431,109.
Bialczak, Edward C., 3,469,984.
Bornarth, Dennis M., 3,481,734.
Brewster, Donald B., 3,422,758.
Brown, Albert C., 3,481,269.
Brown, George W., 3,428,158.
Browning, Luther C., 3,486,888.
Burger, Jack E., 3,457,857.
Carper, Robert L.; Lein, Juergen G. A.; Miller, Donald J.; Schmidlin, Raymond J.; and Verderber, Joseph A., 3,426,678.
Di Giulio, Albert J., 3,486,819.
Frampton, Charles J.; and Maul, John A., 3,446,144.
Freundlich, Jackson S., 3,475,247.
Gammeter, Harry F., 3,420,169.
Gawron, Stanley A., 3,456,109.
Gruver, John H.; and Moe, Hal K., 3,465,937.
Gruver, John H., 3,467,52[illegible].
Helland, Kristian, 3,445,16[illegible].
Kolibas, James A., 3,441,345.
Kolibas, James A., 3,448,970.
Koslo, Robert C.; and Brubaker, Robert D., 3,471,230.
Kriesen, Dennis G., 3,481,522.
Maul, John A.; and Zofchak, James T., 3,420,171.
Maul, John A.; and Nantz, Jack G., 3,486,446.
McMillen, Lawrence R., 3,474,230.
Mignone, Albert E., 3,451,336.
Parker, Konrad, 3,446,620.
Robertson, Richard C.; and Koch, Robert M., 3,421,816.
Rudd, Charles F.; and Obergefell, Ronald F., 3,430,010.
Sallach, Max E., 3,470,358.
Sleeper, Donald W., 3,482,477.
Toby, Dennis E., 3,484,168.
Tregay, John L.; and Graff, William P., 3,437,410.
Tregay, John L.; and Helland, Kristian L., 3,462,217.
Tregay, John L.; and Martin, Edward J., Jr., 3,476,382.
Wilde, Frederick G.; and Booth, L. Gordon, 3,464,690.
Addy, Allan. Nestable pallets. 3,433,184, 3-18-69, Cl. 108-53.
Addy, John: *See*—
Lenoble, Jean P.; Addy, John; and Piggin, Bruce P.,3,442,683.
Ade, Eberhard: *See*—
Sarnezki, Herbert; and Ade, Eberhard,3,444,418.
Adelfang, Jules L., to Standard Oil Company(Indiana). 4-(2-Carbomethoxy-2-propyl)phthalic anhydride. 3,475,460, 10-28-69, Cl. 260-346.3
Adelman, Joseph Kalman, to Webster Electric Company, Inc. Plural rotary hydraulic apparatus. 3,430,574, 3-4-69, Cl. 103-136.
Adelman, Robert L., to Du Pont de Nemours, E. I., and Company. Asphalt-ethylene/vinyel acetate copolymer compositions. 3,442,841, 5-6-69, Cl. 260-28.5
Adelman, Robert L., to Du Pont de Nemours, E. I., and Company. Copolymers of selected polyfluoroperhaloketone adducts with other selected ethylenic compounds. 3,444,148, 5-13-69, Cl. 260-80.72
Adelman, Stuart L.: *See*—
Brewer, Aubrey K.; and Adelman, Stuart L.,3,470,373.
Adelson, Leonard; Magnussen, Roald S.; and McNeary, Matthew W., to Sprague Electric Company. Overlapping end-cap capacitor construction. 3,456,171, 7-15-69, Cl. 317-260.
Adem, Abdulahat, to General Electric Company. Sequential flasher circuits. 3,456,131, 7-15-69, Cl. 307-293.
Adem, Abdulahat, to General Electric Company. Sequential load energizing circuit. 3,463,936, 8-26-69, Cl. 307-223.
Ades, Lewis B., to Sundstrand Corporation. Coolant filter combination. 3,433,361, 3-18-69, Cl. 210-258.
Adey, Anthony John; and Glikin, Paul Edgar, to C.A.V. Limited. Liquid pumping apparatus. 3,465,679, 9-9-69, Cl. 103-5.
Adickes, Edward J. Locking mechanism for sliding doors. 3,427,059, 2-11-69, Cl. 292-288.
Adicoff, Arnold; and Yukelson, Arnold A., to United States of America, Navy. Accelerating the cure rate of carboxylated polybutadiene-aziridinyl compound mixtures with lithium oleate. 3,434,990, 3-25-69, Cl. 260-23.7
Adinolfi, Albert A.: *See*—
Adinolfi, Jseph N., 3,453,897.
Adinolfi, Jseph N., 1/2 interest to Adinolfi, Albert A. Hydrant locking device. 3,453,897, 7-8-69, Cl. 74-89.15
Adkin, Lancelot Alan: *See*—
Wallace, John Frederick; Butler, Roger David; and Adkin, Lancelot Alan,3,461,702.
Adkins, John S., to Force Limited. Adjustable-torque electromagnetic clutch. 3,450,238, 6-17-69, Cl. 192-21.5
Adkins, William L.: *See*—
Lucas, Delbert E.; and Adkins, William L.,3,457,799.
A.D.L. Cement Products, Inc.: *See*—
Vroman, Albert L.; and Bouncher, Leo E., 3,429,473.
Adlaf, William J., to Esterline, Corporation. Power driven tool-positioning mechanism. 3,434,246, 3-25-69, Cl. 51-165.
Adle, Joseph R.: *See*—
Green, Harvey J.; and Adle, Joseph R.,3,482,615.
Adler, Arthur, to Pfizer, Chas., & Co., Inc. Method and composition for producing exothermic reactions. 3,421,885, 1-14-69, Cl. 75-27.
Adler, Clarence E., to Reliance Electric and Engineering Company, The, mesne. Indicating apparatus. 3,448,639, 6-10-69, Cl. 74-822.
Adler, David G., to Sperry Rand Corporation. Balanced vertical positioning system. 3,436,629, 4-1-69, Cl. 318-22.
Adler, Erich: *See*—
Hoffmann, Meinhard; Adler, Erich; and Debus, Karl-Jurgen,3,466,991.
Adler, Franklin P., to Pullman Incorporated. Loading arrangement for covered hopper cars. 3,450,278, 6-17-69, Cl. 214-83.2
Adler, Hans; Horowitz, Norman; and Spigner, Philip. Dental color matching guide. 3,436,156, 4-1-69, Cl. 356-192.
Adler, Hans; Horowitz, Norman; and Spigner, Philip. Color and surface structure comparator. 3,436,157, 4-1-69, Cl. 356-192.
Adler, Henryk: *See*—
Gruszczynski, Leszek; and Adler, Henryk,3,448,908.
Adler, Imre; Connelly, Francis X.; and Martini, Douglas H., to Hewitt-Robins Incorporated. Arcuate path deverter with dust closure thereon. 3,457,789, 7-29-69, Cl. 73-423.
Adler, Imre; and Streng, Fritz F., to Hewitt-Robins Incorporated. Rotary plow feeder apparatus. 3,476,233, 11-4-69, Cl. 198-212.
Adler, Irwin L.; and Bowden, Howard J., to General Foods Corporation. Process for agglomerating coffee. 3,485,637, 12-23-69, Cl. 99-71.
Adler, Karl: *See*—
Ducommun, Georges; and Adler, Karl,3,477,007.
Adler, Karl, to Biviator S.A. Timepiece having a circuit adapted to electrically sustain amplitude-regulated oscillation of a resonator. 3,457,524, 7-22-69, Cl. 331-116.
Adler, Meryle D. W.; Halderman, Joseph, Jr.; and Pauls, Lawrence A., to Corning Glass Works. Double stroke cylinder. 3,469,503, 9-30-69, Cl. 92-62.
Adler, Meryle D.W.; and Pauls, Lawrence A., to Corning Glass Works. Method for sealing anode buttons in glass cathode ray tube funnel portions. 3,471,279, 10-7-69, Cl. 65-49.
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J., to Ilco Corporation. Plunge actuated cutter for keys having angularly directed bits. 3,457,831, 7-29-69, Cl. 90-13.05
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J., to Ilco Corporation. Key cutter device. 3,457,832, 7-29-69, Cl. 90-13.05
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J., to Ilco Corporation. Code key cutter device. 3,469,498, 9-30-69, Cl. 90-13.05
Adler, Norman: *See*—
Mogayzel, John W.; and Adler, Norman,3,452,601.
Adler Process Corp.: *See*—
Adler, Ralph Michael, 3,424,632.
Adler, Ralph Michael, to Adler Process Corp. Method and apparatus for production of pile carpeting and the like. 3,424,632, 1-28-69, Cl. 156-72.
Adler, Richard H. Process for the treatment of certain chest and lung disorders. 3,434,475, 3-25-69, Cl. 128-260.
Adler, Richard H.; and Whitney, John K. Respiratory device. 3,455,294, 7-15-69, Cl. 128-25.
Adler, Robert D.,: *See*—
Morris, William Whitby, 3,482,807.
Adler, Robert, to Zenith Radio Corporation. Acoustical light signal-translating apparatus. 3,431,504, 3-4-69, Cl. 329-129.
Adler, Robert, to Zenith Radio Corporation. Imaging apparatus. 3,452,286, 6-24-69, Cl. 330-4.3
Adler, Robert, to Zenith Radio Corporation. Acoustic signal translating device having a pro- pagating medium composed of a plurality of effec- tively distinct signal translating paths of mutually different effective lengths. 3,462,714, 8-19-69, Cl. 333-72.
Adler, Robert, to Zenith Radio Corporation. Phased array-type beam scanner with dispersion compensation. 3,485,552, 12-23-69, Cl. 350-160.
Adler, Robert; and De Vries, Adrian J., to Zenith Radio Corporation. Acousto-electric filter utilizing surface wave propagation in which the center frequency is deter- mined by a conductivity pattern resulting from an optical image. 3,446,975, 5-27-69, Cl. 250-211.
Adler, Seymour, to Mattel, Inc. Method of manufacturing stuffed toys. 3,445,917, 5-27-69, Cl. 29-463.
Adler, Seymour, to Mattel, Inc. Doll head movable as a result of movement of another doll body part. 3,475,853, 11-4-69, Cl. 46-120.
Adler, Stephen Fred: *See*—
Ebel, Robert Henry; Adler, Stephen Fred; and Keggi, Janis J.,3,421,837.
Adler, Symour, to Mattel, Inc. Apparatus for manufacturing articles. 3,464,083, 9-2-69, Cl. 18-4.

Adlhart, Otto J.: *See—*
Cohn, Johann G. E.; Adlhart, Otto J.; and Hever, Keith O.,3,440,103.
Adlhart, Otto J., to Engelhard Industries, Inc. Fuel cell comprising a Raney catalyst consisting of platinum and a member selected from the group consisting of zirconium, tungsten and rhenium. 3,481,787, 12-2-69, Cl. 136-86.
Adlhart, Otto J.; Halpern, Modecai J.; and Shields, Hugh A., to Engelhard Industries, Inc. Fluorocarbon matrix membrane containing free acid and method of fabricating. 3,453,149, 7-1-69, Cl. 136-153.
Adlhart, Otto J.; and Hartner, Antal J., to Engelhard Industries, Inc. Fuel cell having catalytic fuel electrode. 3,475,224, 10-28-69, Cl. 136-20.
Adlhart, Otto J.; and Hever, Keith O., to Engelhard Industries, Inc. Process for using fuel cell with hydrocarbon fuel and platinum-niobium alloy catalyst. 3,424,619, 1-28-69, Cl. 136-86.
Adlhart, Otto J.; Keith, Carl D.; and Pond, George R., to Engelhard Industries, Inc. Method of preparing fuel cell electrode containing fluorocarbon polymer and carbon black-supported platinum group metal. 3,425,875, 2-4-69, Cl. 136-122.
Adlhoch, Richard H.; Chapman, Ronald H.; and Ogasawara, Roy T., to Motorola, Inc. Control unit for mobile radio telephone system. 3,458,664, 7-29-69, Cl. 179-41.
Admaster Corporation: *See—*
Busch, Richard E., 3,429,523.
Admiral Corporation: *See—*
Barchok, Donald J., 3,435,282.
Chua, James G. S., 3,430,146.
Jameikis, Saulius M., 3,482,495.
Kolomayets, George; and Bury, Allen J., 3,420,533.
Kowalewski, Edward C., 3,464,053.
Levin, Nathan D.; and Noskowicz, Theodore S., 3,452,655.
Lewinson, Lothar J., 3,454,813.
Schwartz, Jack, 3,441,895.
Virva, John; and Olson, Thor F., 3,443,660.
Wolff, Robert A., 3,430,059.
Wolff, Robert A., 3,433,894.
Wolff, Robert A., 3,454,721.
Admiral Equipment Corporation: *See—*
Hermanns, Alfred Hans, 3,462,795.
Adolph, Horst G., to United States of America, Navy. Process of preparing fluorodinitroethanol or fluorodinitromethane from fluorotrinitromethane. 3,446,857, 5-27-69, Cl. 260-633.
Adolph, Horst G.; and Kamlet, Mortimer J., to United States of America, Navy. Fluorodinitromethane and preparation of halodinitromethanes. 3,435,079, 3-25-69, Cl. 260-644.
Adolphi, Heinrich: *See—*
Dickhaeuser, Heiner; Scheuerer, Gunter; Adolphi, Heinrich; and Steinbrunn, Gustav,3,442,984.
Adolphi, Heinrich; and Cordes, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Compositions of copper (1) cyanide and alkali metal salts, and agents containing same for controlling aquatic insects. 3,482,921, 12-9-69, Cl. 424-129.
Scheuerer, Guenter; Zeidler, Adolf; Dickhaeuser, Heiner; and Adolphi, Heinrich,3,423,487.
Adolph's Food Products Mfg., Co.:*See—*
Husaini, Syed M., 3,423,397.
Jacoby, David; and Berhold, Rosalynne J., 3,469,995.
Adomaitis, Domas, to Continental Can Company, Inc. Stress crack resistant compositions comprising polyethylene and a fatty acid salt of a diamine. 3,464,941, 9-2-69, Cl. 260-23.
Adornetto, Anthony J.; and Fox, Leslie L., to Mandrel Industries, Inc. Continuous waveform presentations in time-shared systems. 3,473,079, 10-14-69, Cl. 315-22.
Adra, Tarek, to Hubbell, Harvey, Incorporated. Floodlight reflector assembly. 3,476,925, 11-4-69, Cl. 240-3.
Adrien, Christain, to Elco Corporation. Contact carrier strip. 3,448,431, 6-3-69, Cl. 339-176.
Adrien, Richard N.; and Duggan, Lee E., to General Electric Company. Cross wound coil winding machine. 3,462,091, 8-19-69, Cl. 242-7.15
Advalloy, Inc.: *See—*
Keady, William L.; St. Clair, Michael J.; and Hazen, James T., 3,469,684.
St. Clair, Michael J.; and Keady, William L., 3,469,953.
Advance Data Systems Corporation: *See—*
Buchanan, James Meek, 3,456,155.
Byland, Henry L.; and Bates, Bradford, 3,445,962.
Dillingham, Edward; Caldwell, William W.; and De Vore, William W., 3,472,373.
Van Emden, Bernard M., 3,432,736.
Advance Finishing, Inc.: *See—*
Tillotson, John G., 3,447,215.
Advance Machine Company: *See—*
Arones, Daniel A., 3,430,280.
Advance Process Supply Co.: *See—*
Green, Melvin E.; and Derrickson, Charles H., 3,460,470.
Green, Melvin E.; and Derrickson, Charles H., 3,460,471.
Oltra, Claude H.; and De Luca, John, 3,463,587.
Advance Silk Thread Corp.: *See—*
Philips, Joel M., 3,437,284.
Advance Stamping Company: *See—*
Nolan, Richard D., 3,442,078.
Advance Transformer Co.: *See—*
Holton, Morris J.; and Hasson, Sol, 3,443,256.
Advanced Drainage Systems, Inc.: *See—*
Sixt, Marty E., 3,471,179.
Advanced Instruments Inc.: *See—*
Wiggin, Blanton C., 3,431,781.
Advanced Kinetics, Inc.: *See—*
Furth, Harold P., 3,430,472.
Advanced Wyrepak Company, Inc., The: *See—*
Kovaleski, Joseph J.; and Bauer, Gordon L., 3,425,647.
Advertising Metal Display Co.: *See—*
Paruolo, Anthony M., 3,481,487.
Slaga, Case J., 3,486,629.
Aeberli, Paul; and Houlihan, William J., to Sandoz Inc. Preparation of homo- and heteroaryl-2-aniline ketones. 3,428,644, 2-18-69, Cl. 260-296.
Aebi, Hans: *See—*
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig,3,429,688.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig,3,467,757.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig,3,487,156.
Duerr, Dieter; Rohr, Otto; Aebi, Hans; and Ebner, Ludwig,3,429,689.
Martin, Henry; Aebi, Hans; and Ebner, Ludwig,3,420,892.
Aebischer, Albert C.: *See—*
Nebiker, Fred R.; Aebischer, Albert C.; and Knight, Richard E.,3,482,783.
A.E.C. Societe de Chimie Organiques et Biologique: *See—*
Redel, Joseph; and Boch, Jean Baptiste Christian, 3,424,798.
Aechter, Christian, to Publicon AG. Wash basin. 3,436,766, 4-8-69, Cl. 4-166.
AEG-Elotherm G.m.b.H.: *See—*
Geisel, Herbert; and Springob, Leonhard, 3,472,992.
Reinke, Friedhelm; and Stengel, Edgar, 3,441,703.
Scheffler, Friedrich; Stangl, Ernst; and Gehrmann, Friedrich Karl, 3,449,539.
Seulen, erhard; Reinke, Friedhelm; Frisch, Karl W.; and Oertel, Fritz, 3,483,346.
Seulen, Gerhard; and von Starck, Axel, 3,437,778.
Seulen, Gerhard; Reinke, Friedhelm; and Stengel, Edgar, 3,441,701.
Seulen, Gerhard; Geisel, Herbert; and Stangl, Ernst, 3,446,930.
Seulen, Gerhard; Reinke, Friedhelm; and Kuhlbars, Hermann, 3,472,988.
Seulen, Gerhard; and Reinke, Friedhelm, 3,472,990.
Seulen, Gerhard; and Reinke, Friedhelm, 3,472,991.
Stengel, Edgar, 3,446,375.
Aegidius, Poul E., to A/S N. Foss Electric. Method of determining the fat content of milk and related products. 3,442,623, 5-6-69, Cl. 23-231.
A.E.I.-John Thompson Nuclear Energy Company Limited: *See—*
Bilsborough, Roy; and O'Tallamhain, Colm, 3,453,177.
AEL Development and Research, Inc.: *See—*
Cobb, James W., 3,452,650.
Aelony, David, to General Mills, Inc. β-Alamine hydrazides. 3,456,006, 7-15-69, Cl. 260-558.
Aelony, David, to General Mills, Inc. Certain amino substituted hydrazide epoxy resin curing agents. 3,467,707, 9-16-69, Cl. 260-561.
Aelony, David: *See—*
Nash, Edmund G.; Kamal, Marwan R.; and Aelony, David,3,455,981.
Aenishaenslin, Rudolf: *See—*
Porret, Daniel; and Aenishaenslin, Rudolf,3,449,353.
AER Corporation: *See—*
Jones, Kenneth H., 3,443,325.
Villalobos, Joseph A., 3,427,727.
Aereon Corporation: *See—*
Fitzpatrick, John R.; and Bock, Juergen K., 3,486,719.
Aero-Commerce G.m.b.H.: *See—*
Groeger, Eugen, 3,430,573.
Aero-Flow Dynamics, Inc.: *See—*
Banko, Edward J., 3,443,588.
Downey, George T., 3,420,266.
Downey, George T.; and Sample, William J., 3,442,384.
Sample, William J.; and Downey, George T., 3,451,551.
Aero-Motive Manufacturing Company: *See—*
Becker, Roger T., 3,423,545.
Becker, Roger T.; and Becker, William K., 3,467,134.
Kurlandsky, Sam, 3,448,953.
Kurlandsky, Sam, 3,448,954.
Aeroceanic Corporation: *See—*
Paul, Lowell A.; and Adams, Loyd, 3,484,001.
Aerocoat S.A.: *See—*
Wallis, Neil Rudolph, 3,463,120.
Aerodyne Controls Corporation: *See—*
Nelson, Lee H.; and Roantree, William J., 3,475,746.

Tetrault, Leonard P., 3,468,283.
Aerofall Mills Inc.: *See—*
Weston, David, 3,469,795.
Aerofall Mills Limited: *See—*
Weston, David, 3,429,439.
Weston, David, 3,430,870.
Aeroflex Laboratories Incorporated: *See—*
Hickox, Walter A., 3,446,070.
Aerojet-General Corporation: *See—*
Abronson, Charles J., 3,466,654.
Baum, Kurt, 3,423,463.
Beecher, David W.; and Morgret, Gordon L., 3,487,387.
Braun, Edwin C., Jr., 3,426,701.
Cannon, Charles R.; Cantor, Paul A.; and King, Willam M., 3,432,584.
Cannon, Charles R., 3,460,683.
Covert, Thomas H., 3,465,572.
Doherty, Alfred E., Jr.; and Knop, Louis H., 3,432,912.
Frankel, Milton B.; and Tieman, Charles H., 3,429,917.
Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J., 3,440,282.
Frankel, Milton B., 3,472,889.
Gold, Marvin H.; and Marcus, Henry J., 3,432,540.
Grakauskas, Vytautas; and Baum, Kurt, 3,423,419.
Hamel, Edward E.; and Olsen, Robert E., 3,428,667.
Henriksen, Erik K., 3,433,039.
Jarvis, Marvin A.; and Marks, Murray, 3,456,805.
King, Harry A., 3,431,818.
King, Harry A., 3,444,033.
King, William M.; and Cantor, Paul A., 3,444,286.
Lampert, Bernard B., 3,429,755.
Lapin, Ellis E.; Ernest, Alan W.; and Sollow, Philip A., 3,427,200.
Linden, Gustave B., 3,432,524.
Lucas, Kenneth A.; and Oliver, Robert B., 3,437,923.
McLaughlin, William J., 3,429,691.
Parsons, Robert E.; Darms, Fred J.; and Cox, William T., 3,436,038.
Russell, Richard A., 3,436,668.
Russell, Richard A.; and Lewis, Donald W., 3,436,669.
Sanders, Ray W.; Broderick, Donald L.; and Curl, Garold W., 3,486,118.
Steele, Richard K.; Cruise, Thamo C.; and Jang, Samuel W., 3,427,876.
Stewart, Robert M., 3,453,602.
Truax, Robert C.; and Sprow, William J., 3,427,806.
Warner, Darrel M., 3,458,146.
Watson, Ellwood R.; Rowley, Gene V.; and Wunderlich, Charles R., 3,432,585.
Williams, Robert E.; and Gerhart, Francis J., 3,457,039.
Aerological Research, Inc.: *See—*
Hambor, John, 3,478,252.
Aeronautics and Space Administration, with respect N/A: *See—*
Webb, James E., Administrator of the National to an invention of,; Peek, Charles R.; and Boodley, Lewis E., 3,422,213.
Aeronautics Koehler, Carl August, Jr.; and Shrock, Mark Allen, to AMP Incorporated. Interconnection system. 3,448,345, 6-3-69, Cl. 317-101.
Aeronca, Inc.: *See—*
Voss, Wendell G., 3,434,854.
Warren, Robert M., Jr., 3,473,559.
Aerophysics Company: *See—*
Boehler, Gabriel D.; and Foshag, William F., 3,439,887.
Boehler, Gabriel D.; and Foshag, William F., 3,446,175.
Aeroprojects Incorporated: *See—*
Boyd, Charles A., 3,433,226.
Boyd, Charles A.; and Kartluke, Herbert, 3,436,188.
De Prisco, Carmine F., 3,460,025.
DePrisco, Carmine F., 3,467,832.
Jones, James Byron, 3,466,970.
Smith, Daniel J.; Tarpley, William B., Jr.; and McKinney, Charles Dana, Jr., 3,447,879.
Tarpley, William B., Jr., 3,470,040.
Tarpley, William B., Jr., 3,471,344.
Aeroquip Corporation: *See—*
Buller, Leonard E., 3,432,189.
Deimen, Lawrence A., 3,419,953.
Elsner, Edwin C., 3,423,111.
Elsner, Edwin C., 3,486,772.
Kunz, Guenter Otto, 3,432,190.
McCue, David D.; and Brendle, Thomas A., 3,441,943.
Reinker, Joseph F., Jr., 3,460,569.
Aerosol Inventions & Development S.A. (A.I.D.): *See—*
Butcher, Roger Anthony, 3,467,243.
Aerosol Techniques Incorporated: *See—*
Mace, Harry W., 3,460,714.
Aerosol Techniques Research Center, Incorporated: *See—*
Clapp, Clarence P., 3,437,246.
Aerospace Components Corporation: *See—*
Solymar, George G., 3,447,689.
Aerospace Corporation, The: *See—*
Birnbaum, Milton, 3,427,565.
Birnbaum, Milton, 3,434,072.
Birnbaum, Milton, 3,464,023.
Aerospace Products Research Corporation: *See—*
Pahlavan, Marcel A., 3,460,127.
Pahlavan, Marcel A., 3,487,263.
Aerospace Research, Inc.: *See—*
Shapiro, Laban D.; Latham, Peter A.; Brefka, Paul E.; and LaBrie, Paul J., 3,479,568.
Aerotron, Inc.: *See—*
Scott, William W., 3,480,856.
Aerotronic Associates Inc.: *See—*
Slusser, Eugene A., 3,452,351.
Aerovox Corporation: *See—*
Rodriguez, Antonio R.; and Cronin, John, 3,456,313.
Wershey, Edward J., 3,463,969.
Aerpat A.G.: *See—*
Skinner, Edward A., 3,486,613.
Aerts, Josef, to Glaverbel S.A. Measuring method and apparatus. 3,438,518, 4-15-69, Cl. 214-18.2
Aetna Casualty and Surety Company: *See—*
Jazbutis, Anatolijus; and Swanson, Richard T., 3,478,442.
Swanson, Richard T., 3,479,750.
AFA Corporation of Florida, The: *See—*
Malone, Carl E., 3,471,065.
Owens, Edward W., 3,435,976.
Afanador, Carlos P., to Danton Steel Foundry Company, The. Hydraulic disk brake with anti-knock back feature. 3,486,593, 12-30-69, Cl. 188-196.
Afico S.A.: *See—*
Giddey, Andre; and Vuataz, Luc, 3,481,744.
Mishkin, Abraham R.; Marsh, William C.; and Fobes, Alfred W., 3,451,823.
Rothmayr, Willy, 3,465,452.
Solms, Jurg, 3,420,788.
Vuataz, Luc; and Giddey, Andre, 3,477,854.
Afonso, Adriano: *See—*
Herzog, Hershel L.; and Afonso, Adriano,3,451,892.
African Explosives and Chemical Industries Limited: *See—*
Paasch, Julius H.; and Ehmke, Conrad W., 3,467,559.
Aftandilian, Victor D., to Cabot Corporation. Process for the production of titanium dioxide. 3,455,653, 7-15-69, Cl. 23-202.
Aftandilian, Victor D., to Du Pont de Nemours, E. I., and Company. Salts of the $B_{11}H_{11}$-anion. 3,458,531, 7-29-69, Cl. 260-340.6
Aftreth, Owren J., to Brown, D. S., Company, The. Panel-type form system with gasket strips. 3,434,689, 3-25-69, Cl. 249-193.
A.G. fur industrielle Elektronik Agie: *See—*
Ullmann, Werner; and Donati, Franco, 3,439,146.
Ullmann, Werner; and Hermann, Ferdy, 3,450,456.
AG fur Keramische Industrie Laufen: *See—*
Anklin, Paul, 3,444,565.
AG-Pak Inc.: *See—*
Crabb, Jasper R., 3,420,038.
AGA Aktiebolag: *See—*
Arnell, Jon Arne; and Johannisson, Dag Olof Alfred, 3,429,326.
Arnell, Jon Arne; and Jansson, Bernt Inge, 3,442,427.
Aversten, Karl J., 3,427,468.
Bjork, Nils Arvid Norman; and Borg, Sven-Bertil, 3,430,045.
Granqvist, Carl Erik, 3,422,379.
Granqvist, Carl-Erik, 3,430,500.
Granqvist, Carl-Erik, 3,449,669.
Granqvist, Carl-Erik, 3,480,770.
Hedberg, Oscar Emanuel; Soderberg, Leif Erik Roland; and Westberg, Johan Eric Hayden, 3,444,289.
Jansson, Bernt I., 3,474,785.
Jansson, Bernt Inge; and Arnell, Jon Arne, 3,483,865.
Johannisson, Dag Olof Alfred, 3,460,558.
Johannisson, Dag Olof Alfred, 3,474,784.
Soderberg, Leif Erik Roland, 3,476,594.
Wennberg, Karl Fredrik, 3,478,740.
AGA-ELBAB Batteriewerke Gesellschaft m.b.H.: *See—*
Puhm, Helmut, 3,443,706.
Agar, William Oliver: *See—*
Warren, Kenneth Alfred James; and Agar, William Oliver,3,454,946.
Agarwal, Paul D., to General Motors Corporation. Motor power supply system. 3,476,998, 11-4-69, Cl. 318-146.
Agarwal, Paul D., to General Motors Corporation. Motor power supply system. 3,476,999, 11-4-69, Cl. 318-146.
Agasse, Jean: *See—*
Lavenir, Jean Claude; and Agasse, Jean,3,427,594.
Agatsuma, Tadao; and Yamano, Kiyoshi, to Toyo Rika Kogyo Company Limited. Polarizing microscope for identifying properties of fiber. 3,466,129, 9-9-69, Cl. 356-115.
Agatsuma, Takashi: *See—*
Toki, Hisashi; and Agatsuma, Takashi,3,479,736.
Agdur, Nils Bertil. Apparatus for measuring the properties of a material by resonance techniques. 3,458,808, 7-29-69, Cl. 324-58.5

Agdur, Nils Bertil; and Hedvall, Per Olof Gunnar, to Skandinaviska Processinstrument AB. Heating arrangement utilizing microwaves. 3,478,187, 11-11-69, Cl. 219-10.55

Agdur, Nils Bertil; Sellberg, Florian; Boling, Kurt Goran Rafael; and Ohman, Karl Yngve, to Kooperativa Forbundet Ekonomisk Forening. Electric lamp filament. 3,468,006, 9-23-69, Cl. 29-25.18

Agdur, Nils Bertil; and Weissglas, Peter, to Skandinaviska Processinstrument AB. Apparatus for measuring the surface weight of a material. 3,470,734, 10-7-69, Cl. 73-32.

Agee, Charles W. Oven door hinge assembly. 3,453,996, 7-8-69, Cl. 126-191.

Agee, Robert L. Apparatus for connecting adjacent mitered members. 3,425,721, 2-4-69, Cl. 287-20.92

Agell, Jose Domenech: *See*—
Ruthrof, Klaus; Schwarzer, Gerhard; Agell, Jose Domenech; Mir, Enrique Veiga; and Artigas, Jesus Colell,3,481,475.

Agency of Industrial Science and Technology: *See*—
Aida, Yoshikazu; and Kakizawa, Toshizo, 3,441,855.
Fukuta, Kenji; and Watanabe, Yoshiyuki, 3,440,811.
Shindo, Akio; Fujii, Rokuro; and Souma, Isao, 3,427,120.

Ager, John W., Jr., to FMC Corporation. Preparation of fluorocarbons by reacting carbon tetrachloride or hexachloroethane with carbonyl fluoride. 3,435,082, 3-25-69, Cl. 260-653.8

Ager, John W., Jr.; Heying, Theodore L.; and Mangold, Donald J., to Olin Mathieson Chemical Corporation. Reaction products of decaborone and acetylenes and their preparation. 3,463,820, 8-26-69, Cl. 260-606.5

Agerley, Harald J., to Aktiebolaget Electrolux, mesne. Air humidifier. 3,476,365, 11-4-69, Cl. 261-24.

Agerman, Erik; Lindstedt, Ake; and Nilsson, Nils-Erik, to Allmanna Svenska Elektriska Aktiebolaget. Rotors for rotating electric machines. 3,470,404, 9-30-69, Cl. 310-42.

Ageton, Robert W., to United States of America, Interior. Hydraulic-drive drilling. 3,464,502, 9-2-69, Cl. 173-20.

Agfa Aktiengesellschaft: *See*—
Engelsmann, Dieter; Von Wasielewski, Erwin; and Winkler, Alfred, 3,470,799.
Geyken, Erwin, 3,463,711.
Gotze, Johannes, 3,424,586.
Grabhofer, Herbert; and Ulrich, Hans, 3,428,456.
Grabhofer, Herbert; and Meinhardt, Gunter, 3,443,946.
Hellmig, Ehrhard, 3,485,627.
Himmelmann, Wolfgang; Moll, Franz; Posse, Rolf-Fred; Riebel, Alexander; and Ulrich, Hans, 3,441,412.
Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter, 3,472,695.
Kleist, Walter; Moll, Franz; Kruck, Peter; and Hellmig, Ehrhard, 3,436,217.
Lassig, Wolfgang; and Ludloff, Wolfgang, 3,441,347.
Loffler, Karl Nikolaus, 3,471,295.
Menzel, Karl-Heinz; and Bockly, Erich, 3,443,954.
Nittel, Fritz; Meckl, Heinz; Puschel, Walter; and Ulrich, Hans, 3,437,483.
Puschel, Walter; and Schranz, Karl-Wilhelm, 3,467,520.
Ruempelein, Fritz, 3,479,595.

Agfa-Gevaert Aktiengesellschaft: *See*—
Baasner, Wilhelm, 3,469,918.
Biedermann, Friedrich; and Bestenreiner, Friedrich, 3,434,403.
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard, 3,483,807.
Brandt, Hans-Ado, 3,469,907.
Cassiers, Paul Maria; Noe, Robert Joseph; and Van Engeland, Jozef Leonard, 3,486,922.
Danhauser, Justus; Gold, Heinrich; Holtschmidt, Hans; and Pelz, Willibald, 3,467,630.
Denk, Richard, 3,469,514.
Engelsmann, Dieter; and Maas, Dieter, 3,420,152.
Engelsmann, Dieter; and Maas, Dieter, 3,446,130.
Engelsmann, Dieter; and Hackenberg, Hubert, 3,463,066.
Engelsmann, Dieter; Maas, Dieter; Bammesberger, Karl; and Hackenberg, Hubert, 3,463,068.
Eppe, Rudolf, 3,441,884.
Fauth, Guenter, 3,446,132.
Fauth, Guenter; and Nusser, Helmut, 3,463,067.
Frank, Karl; Himmelmann, Wolfgang; and Ulrich, Hans, 3,467,519.
Frank, Karl; and Heilmann, Max, 3,467,521.
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard, 3,467,522.
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard, 3,480,438.
Funck, Herbert, 3,475,089.
Gersch, Josef, 3,455,519.
Gersch, Josef; Wiesner, Max; Hoffacker, Franz; Barke, Hans Joachim; Johanns, Heinz; and Kreckeler, Fritz, 3,481,552.
Greiner, Joachim; and Krones, Friedrich, 3,430,133.
Greiner, Joachim; and Krones, Friedrich, 3,435,336.
Hackenberg, Hubert, 3,465,658.
Himmelmann, Wolfgang; Riebel, Alexander; Zenner, Karl-Friedrich; and Meckl, Heinz, 3,480,440.
Hofmann, Wilfried, 3,473,871.
Huber, Hans-Peter, 3,457,845.
Huckstadt, Harald; Saleck, Wilhelm; Ulrich, Hans; Randolph, August; and Grabhofer, Herbert, 3,434,842.
Huckstadt, Harold; Saleck, Wilhelm; Randolph, August; and Ranz, Erwin, 3,471,296.
Jacknau, Alex, 3,431,052.
Jores, Willi, 3,426,633.
Kampfer, Helmut; Gotze, Johannes; Reister, Oskar; and Bockly, Erich, 3,480,439.
Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter, 3,447,438.
Kaufer, Helmut, 3,463,082.
Kiper, Gerd, 3,439,595.
Kiper, Gerd, 3,447,431.
Kiper, Gerd, 3,453,942.
Kiper, Gerd; and von Wasielewski, Erwin, 3,463,072.
Kiper, Gerd, 3,470,802.
Kremp, Rudolf; Wagner, Karl; Engelsmann, Dieter; and Winkler, Alfred, 3,463,069.
Lassig, Wolfgang; Riebel, Alexander; Puschel, Walter; and Himmelmann, Wolfgang, 3,480,431.
Maeder, Helmut; and Seidel, Bernhard, 3,462,274.
Mayr, Helmut; Pelte, Richard; and Auracher, August, 3,425,776.
Mayr, Helmut; and Pelte, Richard, 3,469,516.
Menold, Richard, 3,443,936.
Ohlschlager, Hans; Riester, Oskar; Muller, Herbert; and Reckziegel, Erich, 3,471,293.
Ohlschlager, Hans; and Riester, Oskar, 3,485,632.
Paulus, Rudolf, 3,426,357.
Phleps, Konrad; Fruth, Franz; and Bloechl, Hanns, 3,467,011.
Puschel, Walter; Schranz, Karl-Wilhelm; Lassig, Wolfgang; Marx, Paul; and Credner, Hans-Heinrich, 3,443,942.
Puschel, Walter; and Schranz, Karl-Wilhelm, 3,457,077.
Riedel, Anton; and Kaiser, Guenther, 3,482,797.
Riester, Oskar, 3,457,078.
Saleck, Wilhelm; Lassig, Wolfgang; and Posse, Rolf-Fred, 3,432,304.
Scheffel, Walter, 3,443,867.
Schmidt, Hans-Egbert, 3,487,351.
Schmidt, Rolf; and Schranz, Karl-Wilhelm, 3,483,809.
Schnall, Guenther, 3,443,516.
Simm, Walter, 3,470,850.
Tietema, Casper J.; and Rodak, Donald M., 3,482,269.
van Albedyll, Joachim; and Hennig, Fridoin, 3,452,659.
von Albedyll, Joachim; and Hennig, Fridolin, 3,456,567.
von Rintelen, Harald; Liebe, Werner; and Krafft, Werner, 3,432,298.
von Wasielewski, Erwin, 3,425,326.
von Wasielewski, Erwin, 3,429,244.
Von Wasielewski, Erwin; and Handwerk, Karl-Heinz, 3,444,794.
von Wasielewski, Erwin; and Handwerk, Karl-Heinz, 3,471,226.
Wagner, Karl, 3,438,314.
Wagner, Karl, 3,439,597.
Weisbeck, Roland; Fitzky, Hans-Georg; Simm, Walter; and Heyl, Gerhard, 3,467,497.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin, 3,426,661.
Wick, Richard, 3,430,545.
Wick, Richard; Kwiatkowski, Wolfgang; and Schausberger, Helmut, 3,430,945.
Wick, Richard; Waschk, Fritz; and Orthmann, Jurgen, 3,431,053.
Wick, Richard; Bestenrainer, Friedrich; and Van Wasielewski, Erwin, 3,433,140.
Wick, Richard; Engelsmann, Dieter; and Winkler, Alfred, 3,447,433.
Wick, Richard; Kohler, Roland; and Schneider, Othmar, 3,454,336.
Wick, Richard; Wagner, Karl; Von Albedyll, Joachim; and Renner, Otfried, 3,454,755.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl, 3,465,656.
Wick, Richard; Wagner, Karl; von Albedyll, Joachim; Renner, Otfried; and Hennig, Fridolin, 3,466,992.
Wick, Richard, 3,469,912.
Wick, Richard, 3,473,880.
Winkler, Alfred, 3,421,422.
Winkler, Alfred, 3,442,580.
Winkler, Alfred, 3,447,435.
Winkler, Alfred; Bammesberger, Karl; and Ernst, Heinz, 3,463,071.
Winkler, Alfred; and Denk, Richard, 3,469,906.
Winkler, Alfred; Winkler, Friedrich; Theer, Anton; and Thate, Kurt, 3,477,778.
Winkler, Alfred; and Ernst, Heinz, 3,479,938.

Aggregate Plant Products Company: *See—*
Cox, George W.; Garcia, Lloyd J.; and Reyes, Edward, 3,476,270.

Aghassi, Badri Munir: *See—*
Fuller, Harrison W.; McCormack, Thomas Leo; Aghassi, Badri Munir; and Morley, Richard E.,3,436,814.

Aghnides, Elie P. Vehicle with inclined wheels. 3,424,259, 1-28-69, Cl. 180-29.

Aghnides, Elie P. Water acrators. 3,424,387, 1-28-69, Cl. 239-428.5

Agin, Julius, to Radio Corporation of America. Control circuit for automatically quantizing signals at desired levels. 3,426,210, 2-4-69, Cl. 250-214.

Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi, to Societa Italiana Resine S.p.A. Catalyst for preparing formaldehyde from methanol. 3,459,807, 8-5-69, Cl. 260-603.

Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi, to Societa Italiana Resine S.p.A. Oxidation catalysts. 3,464,931, 9-2-69, Cl. 252-470.

Aglietti, Giancarlo; and Canavesi, Roberto, to Societa Italiana Resine S.p.A. Method of purifying cumene for preparing phenol. 3,478,121, 11-11-69, Cl. 260-674.

Agneray, Louis; Bruni, Maurice; and Clayer, Arlette, to Societe de Recherches Techniques et Industrielles (S.R.T.I.). Device for the continuous withdrawal of a granular solid. 3,482,881, 12-9-69, Cl. 302-42.

Agnew, Arthur Francis, to Clearview Aluminium Windows Pty., Limited. Insect screen for sash window. 3,470,934, 10-7-69, Cl. 160-27.

Agnew, Stanley A.; and Canulette, Walter N., to Air Reduction Company, Incorporated. Nonconsumable electrode arc spot welding overcoming a heat block or loss. 3,446,935, 5-27-69, Cl. 219-127.

Agolini, Franco: *See—*
Gay, Frank P.; and Agolini, Franco,3,455,879.

Agostini, Antoine, to Societe Anonyme des Automobiles Simca. Torque measuring device, primarily for the adjustment of screw-tightening machines. 3,457,780, 7-29-69, Cl. 73-139.

Agpro, Inc.: *See—*
Gribble, Donald J., 3,429,513.

Agrashell, Inc.: *See—*
Ayers, Joseph W., 3,429,770.

Agren, Sven Birger, to Aktiebolaget Hagglund & Soner. Device for compensating recoil torques in tank turrets. 3,430,534, 3-4-69, Cl. 89-42.

Agren, Sven Birger; Andersson, Bjorn A. H.; and Andersson, Nils Svante, to Aktiebolaget Hagglund & Soner. Disk brake. 3,480,117, 11-25-69, Cl. 188-264.

Agri Craft, Inc.: *See—*
Huxley, Thomas C., III, 3,470,981.

Agri-Tech, Inc.: *See—*
Hoover, Richard D.; and Kohler, George O., 3,455,894.

Agri-Tek, Inc.: *See—*
Gatzke, Harold E.; Ariens, Mando S.; and Doty, Vernon G., 3,450,074.

Agricola, Norman F.: *See—*
Thackeray, William E., 3,433,233.

Agricultural Aviation Engineering Company: *See—*
Pickell, Phillip R., 3,463,424.

Agrimi, Michele: *See—*
Andrini, Dario, 3,458,265.

Agrios, John P.; and Freibergs, Elmer, to United States of America, Army. Reciprocal microwave ferrite phase shifter. 3,435,382, 3-25-69, Cl. 333-31.

Agrista, Dominic S.; and Anastasia, Anthony S., to Mattel, Inc. Sheet clamping couple. 3,476,377, 11-4-69, Cl. 269-21.

Agro, Ighatius T.: *See—*
Saiia, Samuel N.; and Chiusolo, Louis L., 3,445,322.

Agrusa, Peter. Iron stand. 3,459,398, 8-5-69, Cl. 248-117.2

Agrusa, Peter. Stands for supporting flat-irons. 3,477,672, 11-11-69, Cl. 248-117.2

Aguet, Emile Albert, to Sulzer Brothers, Ltd. Method and apparatus for mixing gas and steam in a gas turbine plant. 3,461,667, 8-19-69, Cl. 60-39.05

Aguet, Emile, to Sulzer Brothers Limited. Gas-steam turbine plant. 3,449,908, 6-17-69, Cl. 60-39.3

Aguilo, Adolfo; Fisher, Gene J.; and Wheeler, Edward N., to Celanese Corporation. Process for removing carbonyl compounds from vinyl acetate. 3,465,032, 9-2-69, Cl. 260-499.

Agursky, Melib Samuilovich: *See—*
Vasiliev, Vladimir Sergeevich; Zusman, Vladimir Grigorievich; Ratmirov, Valery Arkadievich; and Agursky, Melib Samuilovich,3,475,578.

Agusta, Benjamin; and Hess, Martin S., to International Business Machines Corporation. Low resistivity semiconductor underpass connector and fabrication method therefor. 3,443,176, 5-6-69, Cl. 317-235.

Agway, Inc.: *See—*
Groschke, Albert C., 3,434,845.

Aha, Eugene W., to Sperry Rand Corporation. Twelve-slot, six coil, short-chorded, single-layer armature winding for brushless DC motor. 3,444,406, 5-13-69, Cl. 310-195.

Ahearn, John James, Jr.; and Clements, Thomas Robert, to AMP Incorporated. Laminated electrical capacitor and methods for making. 3,448,355, 6-3-69, Cl. 317-261.

Ahearn, John James, Jr.; and Taylor, William Leander, to AMP Incorporated. Thin skin packaging for electrical components. 3,474,185, 10-21-69, Cl. 174-52.

Ahern, Charles J., to Bendix Corporation, The. Fluid state devices. 3,465,773, 9-9-69, Cl. 137-81.5

Ahern, Charles J., to Bendix Corporation, The. Settable fluidic flip flop. 3,486,692, 12-30-69, Cl. 235-201.

Ahier, Thelma Grace: *See—*
Boyce, Ian Stanley; and Ahier, Thelma Grace,3,467,824.

Ahl, Demetrius: *See—*
Bromer, Heinz; Meinert, Norbert; and Ahl, Demetrius,3,446,638.

Ahlborg, Nils Knut Gabriel: *See—*
Grundelius, Nils Roland; and Ahlborg, Nils Knut Gabriel,3,486,619.

Ahlbrecht, Arthur H., to Minnesota Mining and Manufacturing Company. Perfluoroalkyl sulfonamides and carboxamides. 3,450,755, 6-17-69, Cl. 260-556.

Ahlen, Karl G., to S.R.M. Hydromekanik AB. Modulating valve for hydrostatic coupling. 3,426,876, 2-11-69, Cl. 192-61.

Ahlenius, Gosta, to Trima AB. Differential piston control system. 3,438,307, 4-15-69, Cl. 91-436.

Ahlenius, Uno. Knock down pallet. 3,469,542, 9-30-69, Cl. 108-56.

Ahler, Wilhelm: *See—*
Kreienbaum, Hubert; and Ahler, Wilhelm,3,474,610.

Ahlert, Richard H.: *See—*
Milch, Alfred; Lalak, Joseph J.; and Ahlert, Richard H.,3,438,118.

Ahlert, Wilhelm: *See—*
Meier, Hermann; Eisenmann, Joseph; Dohse, Ruthard; and Ahlert, Wilhelm,3,456,333.

Ahles, Lavern James; and Iyengar, Yathiraja, to Du Pont de Nemours, E. I., and Company. Tire fabrication process. 3,423,265, 1-21-69, Cl. 156-110.

Ahles, Lavern James; and Sherbeck, Leander Adair, to Du Pont de Nemours, E. I. and Company. Staple cutter vacuum waste removal system. 3,426,632, 2-11-69, Cl. 83-100.

Ahlgren, Axel W., to Amerock Corporation. Latching assembly. 3,469,875, 9-30-69, Cl. 292-175.

Ahlgren, Hans H.; and Leidvik, Martin, to Stabilator Aktiebolag. Device in drills. 3,441,097, 4-29-69, Cl. 175-214.

Ahlgren, James D.: *See—*
Bateman, Ross; and Ahlgren, James D.,3,487,310.

Ahlqvist, Karl. Insulated wall construction for buildings. 3,435,581, 4-1-69, Cl. 52-405.

Ahlstedt, Gunnar Lennart, to Mo och Domsjo Aktiebolag. Arrangement for centering and determining the width of workpieces. 3,451,522, 6-24-69, Cl. 198-29.

Ahlstedt, Gunnar Lennart. Method of timber sorting. 3,456,700, 7-22-69, Cl. 144-312.

Ahlstedt, Gunnar Lennart, to Mo och Domsjo Aktiebolag. Method and apparatus for cutting logs into lumber and recovering the byproducts. 3,457,978, 7-29-69, Cl. 144-312.

Ahlstedt, Gunnar Lennart, to Mo och Domsjo Aktiebolag. Apparatus for machining wooden planks. 3,481,375, 12-2-69, Cl. 144-121.

Ahlstone, Arthur G., to Cameron Iron Works, Inc. Well completion apparatus. 3,448,799, 6-10-69, Cl. 166-0.5

Ahlstone, Arthur G., to Ventura Tool Company. Cashing hanger apparatus. 3,468,558, 9-23-69, Cl. 285-18.

Ahlstone, Arthur G., to Ventura Tool Company. Hydraulically actuated casing hanger. 3,468,559, 9-23-69, Cl. 285-18.

Ahmed, Mukhtar, to Chemcell (1963) Limited. Dyeable compositions comprising polypropylene, polyamide and ethylene copolymer. 3,454,512, 7-8-69, Cl. 260-23.

Ahnert, Heinz, to International Standard Electric Corporation. Counting device. 3,450,954, 6-17-69, Cl. 317-140.

Aho, Charles Elmer, to Du Pont de Nemours, E. I., and Company. Process for improved flex-resistance of sulfur-modified polychloroprene. 3,422,045, 1-14-69, Cl. 260-27.

Aho, Toivo O., to Bethlehem Steel Corporation. Sealed flexible strand assembly and fitting. 3,471,904, 10-14-69, Cl. 24-122.3

Ahramjian, Leo; and Yin, Theodore Peng-Jung, to Du Pont de Nemours, E. I., and Company. Constrained layer damped laminate structure. 3,467,572, 9-16-69, Cl. 161-190.

Ahrendt, William A.: *See—*
Beggs, Donald; and Ahrendt, William A.,3,443,931.

Ahrens, Erhard, to Shure Brothers, Incorporated. Moving magnet stereophonic pickup. 3,463,889, 8-26-69, Cl. 179-100.41

Ahrens, Harold R.: *See—*
Kimball, James L.; Tompkins, William R.; and Ahrens, Harold R.,3,426,145.

Ahrens, Robert H., to Milwaukee Chaplet & Mfg. Company, Inc. Tap switch assembly with improved detent and contact structure. 3,437,766, 4-8-69, Cl. 200-11.

Ahrens, Robert H., to Milwaukee Chaplet & Mfg. Company, Inc. Program controller. 3,470,338, 9-30-69, Cl. 200-46.

Ahrland, Sten Harald, to Aktiebolaget Atomenergi. Separation of fission products, primarily cesium, from uranyl salt solutions by means of an inorganic ion exchanger, zirconium phosphate. 3,484,216, 12-16-69, Cl. 23-337.
Ahrnholm, Par: *See—*
Breitholtz, Bo; Carlen, Fred; and Ahrnholm, Par,3,424,199.
Ahrons, Richard W., to RCA Corporation. Cryoelectric memories. 3,452,333, 6-24-69, Cl. 340-173.1
Ahrons, Richard W., to United States of America, mesne. Cryogenic associative memory. 3,483,532, 12-9-69, Cl. 340-173.1
Ahsmann, Gerardus Josephus Maria; Lothaller, Wolfgang Erich; Meyer, Hans Joachim Gustav; and van der Laarse, Jan Willem, to U.S. Philips Corporation, mesne. Glow-discharge tube containing a mixture of rare gases. 3,473,070, 10-14-69, Cl. 313-210.
Ahsmann, Gerardus Josephus Marie; Meyer, Hans Jachim Gustav; and Van der Laarse, Jan Willem, to North American Philips Company, Inc. Positive column gas discharge lamp employing an alloy of two metals with impedance-free terminal connections. 3,439,209, 4-15-69, Cl. 313-229.
Ahy, Jahangir M. Signal recording and/or playback apparatus. 3,450,362, 6-17-69, Cl. 242-55.16
Aiba, Hiroshi. Hook button control device of an automatic telephone answering apparatus. 3,480,720, 11-25-69, Cl. 179-1.
Aichenegg, Paul C., to Chemagro Corporation. Polyhaloethyl and polyhalovinyl sulfinate and thiosulfinate esters. 3,463,803, 8-26-69, Cl. 260-453.
Aichenegg, Paul C., to Chemagro Corporation. S,S-hydrocarbyl-S-chloroethyl or chlorovinyl phosphates. 3,463,836, 8-26-69, Cl. 260-937.
Aichenegg, Paul C.; and Emerson, Carl D., to Chemagro Corporation. Bis(chloro-bromovinyl sulfoxides). 3,428,687, 2-18-69, Cl. 260-607.
Aichenegg, Paul C.; Emerson, Carl D.; and Gillen, Lawrence E., to Chemagro Corporation. Polychloroethyl and polychlorovinyl acyl mono and bisdisulfides. 3,428,665, 2-18-69, Cl. 260-453.
Aichenegg, Paul C.; and Gillen, Lawrence Edward, to Chemagro Corporation. Sulfenyl and sulfinyl phosphoryl dichlorides. 3,454,679, 7-8-69, Cl. 260-934.
Aichenegg, Paul C.: *See—*
Emerson, Carl D.; and Aichenegg, Paul C.,3,442,941.
Aichinger, Gerd; Schutz, Siegismund; and Hoffmeister, Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. Basically substituted derivatives of 5,6-dihydro- dibenzo-[b,e]-azepine-6, 11-dione-11-oxime. 3,431,257, 3-4-69, Cl. 260-239.3
Aichinger, Harry H., to Boeing Company, The. Electronic method for rigging airplane control surfaces. 3,478,569, 11-18-69, Cl. 73-1.
Aida Iron Works & Co., Ltd.: *See—*
Iwamatsu, Mayuki; and Fujimura, Akira, 3,432,014.
Tezuka, Yoshitomo, 3,426,873.
Tezuka, Yoshitomo; and Iwamatsu, Mayuki, 3,457,874.
Aida, Tadayoshi: *See—*
Nakai, Akira; Nakagawa, Kei; Kume, Kazunari; and Aida, Tadayoshi,3,469,389.
Aida, Yoshikazu; and Kakizawa, Toshizo, to Agency of Industrial Science and Technology, Ministry of International Trade and Industry. High frequency wattmeter employing inductive shielding and a capacitive shunt for frequency compensation. 3,441,855, 4-29-69, Cl. 324-106.
Aiello, Lawrence J.: *See—*
Aiello, Samuel, Jr., 3,450,872.
Aiello, Salvatore F.; and Barth, John W., to Case, J. I., Company. Vehicle seat structure. 3,448,820, 6-10-69, Cl. 180-77.
Aiello, Samuel, Jr., 1/2 to Aiello, Lawrence J. Illuminated hairpiece. 3,450,872, 6-17-69, Cl. 240-59.
Aigner, Georg: *See—*
Krautwald, Herbert; Hubner, Wolfgang; Bosch, Werner; and Aigner, Georg,3,451,022.
Aijala, Sulo A., to Intricate Machine Engineering Inc. Saw sharpening machine. 3,481,224, 12-2-69, Cl. 76-40.
Aikawa, Michinosuke; Kojima, Mirei; and Takahashi, Chushichi, to Toho Aen Kabushiki Kaisha. Apparatus for preparing high purity fine powder of low-melting metals. 3,430,289, 3-4-69, Cl. 18-2.5
Aiken, Edwin J.: *See—*
Hodgdon, Russell B., Jr.; Aiken, Edwin J.; and Enos, John F.,3,423,278.
Hodgdon, Russell B., Jr.; Enos, John F.; and Aiken, Edwin J.,3,442,825.
Aiken, Homer Carl. Motorized scaffolds. 3,422,922, 1-21-69, Cl. 182-14.
Aiken, Howard, Industries, Inc.: *See—*
Neill, Daniel L., 3,483,432.
Aiken Industries, Inc.: *See—*
Filchak, Robert W.; and Neill, Daniel L., 3,422,384.
Aiken, William Ross. Signalling device. 3,460,134, 8-5-69, Cl. 340-373.
Aiken, William R. Multi-color signalling device. 3,447,150, 5-27-69, Cl. 340-373.
Aikins, Glenn A., to Armour and Company. Low temperature rendering of animal fatty tissue to recover protein. 3,449,315, 6-10-69, Cl. 260-112.
Aileen, S. Carlson: *See—*
Blair, Ronald L.; and Aileen, S. Carlson,3,468,313.
Aileo, Jackson A., to Gentex Corporation, mesne. Safety helmet with improved stabilizing and size adjusting means. 3,447,162, 6-3-69, Cl. 2-3.
Aileo, Jackson A., to Gentex Corporation. Rigid shell helmet with ear cup. 3,456,263, 7-22-69, Cl. 2-3.
Aileo, Jackson A., to Gentex Corporation, mesne. . 3,470,564, 10-7-69, Cl.
Aileo, Jackson A., to Gentex Corporation, mesne. Ear cup with spring supported resilient seal. 3,477,067, 11-11-69, Cl. 2-209.
Ainslie, Norman G.; Chhabra, Devendra S.; Jepsen, Donald W.; and Mutter, Walter E., to International Business Machines Corporation. Mass production of electronic devices. 3,474,530, 10-28-69, Cl. 29-624.
Ainsworth, Alan, to United Kingdom Atomic Energy Authority. Remote-control manipulator. 3,428,189, 2-18-69, Cl. 214-1.
Ainsworth, David J.; and Bovee, Loren L., to Fisher Governor Company. Ball valve construction. 3,446,477, 5-27-69, Cl. 251-208.
Ainsworth, Ira V. Dental matrix equipment. 3,462,841, 8-26-69, Cl. 32-63.
Ainsworth, John Desmond, to English Electric Company Limited, The. Circuit for controlling the application of firing pulses to controlled device in a static converter operating in the inversion mode. 3,458,795, 7-29-69, Cl. 321-5.
Ainsworth, John Desmond, to English Electric Company Limited, The. Control circuits for static convertors. 3,466,525, 9-9-69, Cl. 321-5.
Ainsworth, John Desmond, to English Electric Company Limited, The. Static convertor control systems in which maximum negative rate-of-change of firing angle is limited. 3,467,848, 9-16-69, Cl. 321-14.
Ainsworth, John Desmond, to English Electric Company Limited, The. Control systems for H.V.D.C. transmission links. 3,470,442, 9-30-69, Cl. 321-2.
Ainsworth, John Desmond, to English Electric Company Limited, The. Static inverter control circuit. 3,474,321, 10-21-69, Cl. 321-5.
Ainsworth, John Desmond, to English Electric Company Limited, The. Electrical filters. 3,475,702, 10-28-69, Cl. 333-17.
Ainsworth, Laine J., to Kelsey-Hayes Company. Two-way overrunning clutch. 3,472,349, 10-14-69, Cl. 192-35.
Ainsworth, Willard E.; and Hill, Norman C., to International Business Machines Corporation. Component lead offset bending apparatus. 3,427,849, 2-18-69, Cl. 72-296.
Air Factors, Inc.: *See—*
Lambert, Robert R., 3,444,801.
Air Logistics Corporation: *See—*
Harr, George B., 3,480,058.
Schirtzinger, Joseph F., 3,466,680.
Air Preheater Company, Inc., The: *See—*
Bakker, Lubertus; Conde, James C.; and Krumm, Eugene D., 3,486,644.
Carpenter, Peter William, 3,463,410.
Grames, Lloyd Donald, 3,463,222.
Karlsson, Per Hilmer, 3,436,192.
Layfield, James David; and Slingerland, Lyle Robert, 3,481,114.
Paddock, David A.; and Hardy, Robert G., 3,463,006.
Pauletta, Carl E., 3,468,634.
Woolard, Thomas L.; and Rickard, Earl K., 3,481,392.
Air Products and Chemicals, Inc.: *See—*
Beitchman, Burton D., 3,467,660.
Binder, Joseph Morris, 3,420,039.
Cooley, Gerald J.; Cormier, Thomas E.; and Sipple, Peter A., 3,463,869.
Cornelius, Edward B.; McEvoy, James E.; and Mills, George Alexander, 3,455,842.
Craig, Robert G.; Doelp, Louis C., Jr.; and Friedman, Lee, 3,487,120.
Currie, Robert B.; Sellinger, Martin S.; and Villaume, Henry F., 3,422,632.
Erby, William A.; Erner, William E.; Skaptason, Johann S.; and Walde, Robert A., 3,472,004.
Erner, William E., 3,472,788.
Flinn, Richard A.; Sobell, Richard S.; Swigar, Andrew A.; and Walde, Robert A., 3,425,844.
Flinn, Richard A.; and Young, Jack A., 3,436,455.
Green, Harold A., 3,448,065.
Jepsen, Robert E., 3,455,565.
Jones, Robert D.; and Klee, David J., 3,468,077.
Klee, David J., 3,433,028.
Koester, David W., 3,467,602.
Kucirka, John F., 3,472,787.
Ladenheim, Harry; and Ziv, Martin H., 3,442,607.
Lapides, Jules S.; and McEvoy, James E., 3,458,454.
Mascioli, Rocco L., 3,481,933.
McEvoy, James E., 3,450,645.

Pryor, John A.; and Bolez, Carl A., 3,440,828.
Scott, Charles E., 3,451,948.
Shirk, Robert M., 3,482,946.
Shull, Samuel E., 3,479,415.
Swigar, Andrew A.; and Walde, Robert A., 3,429,906.
Young, Freeman M., 3,470,214.
Zulueta, Javier, 3,428,697.

Air Reduction Company, Incorporated: *See*—
Agnew, Stanley A.; and Canulette, Walter N., 3,446,935.
Benner, Charles E., 3,430,261.
Blackman, Paul R.; and Sullivan, Edmund T., 3,428,778.
Blanchard, Edward R.; and Marancik, William G., 3,428,501.
Blanchard, Edward R.; and Reiter, Sydney H., 3,453,865.
Bryant, Horace B., Jr., 3,422,892.
Collins, Franklyn M., 3,486,988.
Croix, Louise S.; and Szur, Alex J., 3,476,860.
Cunningham, John W., 3,484,575.
Davies, Richard E., 3,468,859.
Dorschu, Karl E.; and Rolnick, Jerome M., 3,453,142.
Estes, James W., 3,459,867.
Falcettoni, John B., 3,421,913.
Foster, Kenneth M., 3,480,415.
Gregory, Eric, 3,472,705.
Hallworth, Stanley K., 3,453,964.
Hanks, Charles W.; Merrill, Jack D.; and Peterson, Harold A., 3,420,977.
Hanks, Charles W., 3,446,934.
Hanks, Charles W.; and Harker, Howard R., 3,450,824.
Hanks, Charles W., 3,475,542.
Hanks, Charles W., 3,483,417.
Hanks, Charles W., 3,483,423.
Hawkins, Raymond L.; and Davidowich, George, 3,438,808.
Heiberger, Charles A.; and Fishbein, Leon, 3,468,840.
Heiberger, Charles A.; and Fishbein, Leon, 3,468,858.
Hemstreet, Russell A.; and Taylor, Alfred H., 3,437,582.
Herman, Charles O.; and Funkhouser, John G., 3,428,566.
Jeannette, Joseph C., 3,447,730.
Kennedy, Kurt David; and Smith, Hugh R., Jr., 3,437,328.
Kiernan, Joseph F., 3,450,926.
Kim, Kee Hyong, 3,442,822.
Koch, George Robert, 3,436,861.
Krantz, John C., Jr.; and Croix, Louise S., 3,483,298.
Lindemann, Martin K.; and Volpe, Rocco P., 3,440,199.
Lindemann, Martin K.; and Volpe, Rocco P., 3,440,200.
Lindemann, Martin K., 3,441,547.
Manson, John A.; and Sorkin, Howard, 3,461,075.
McCabe, Neale R.; and Pearce, Michael L., 3,451,772.
Mottern, Henry O., 3,445,533.
Normando, Neil J.; and Pierce, Willis C., Jr., 3,475,586.
Pearce, Michael L., 3,470,117.
Platz, Gerald M., 3,437,535.
Purkhiser, Rawlins E., 3,439,554.
Sandler, Jack, 3,462,327.
Shepherd, Thomas L., 3,477,816.
Sims, Victor A., 3,453,073.
Smith, Hugh R., Jr., 3,450,336.
Smith, Hugh R., Jr., 3,474,218.
Spies, George R. Jr., 3,472,481.
Tedeschi, Robert J.; and Moore, George L., 3,441,621.
Tedeschi, Robert J.; and Clark, George S., Jr., 3,462,499.
Tedeschi, Robert J.; and Moore, George L., 3,474,117.
Tedeschi, Robert J.; and Moore, George L., 3,474,118.
Tedeschi, Robert J.; and Moore, George L., 3,474,119.
Tedeschi, Robert J.; and Moore, George L., 3,474,120.
Terrell, Ross C., 3,449,504.
Terrell, Ross C., 3,461,213.
Terrell, Ross C., 3,469,011.
Terrell, Ross C., 3,476,811.
Terrell, Ross C., 3,476,812.
Townsend, Palmer W.; Laird, William B.; and Halfon, Albert, 3,443,389.
Wallace, Dean R., 3,438,530.
Wallace, Dean R., 3,473,529.
Webster, Robert C.; and Hinn, John S., 3,453,121.
Webster, Robert C.; and Schlemmer, Alfred H., Jr., 3,485,055.

Air Vehicle Corporation: *See*—
Strand, Torstein; Levinsky, Ely S.; and Timin, Mitchell E., 3,430,894.

Air-Mite Devices, Inc.: *See*—
Stryker, Seymour F., 3,433,267.
Stryker, Seymour F., 3,474,710.

Air-O-Matics, Inc.: *See*—
Noland, Richard D., 3,482,378.

Air-Shields, Inc.: *See*—
Van Den Nieuwenhof, Ronald A.; and Romani, Edward P., 3,452,744.

Air-Tech. Industries, Inc.: *See*—
Fraioli, Donito M., 3,483,657.

Air-Vac Engineering Company, Incorporated: *See*—
Duhaime, Raymond A.; Lasto, Clifford S.; and Lasto, Stephen W., 3,474,953.

Airborne Navigation Corporation: *See*—
Wipff, Frank Pershing; and Wilson, James A., 3,425,648.

Aircraft Plating, Inc.: *See*—
Flicker, Howard D., 3,449,151.

Aircraft Radio Corporation: *See*—
Harford, Jack R., 3,479,525.
Owens, Fred J.; and Konet, Henry, 3,455,030.
Post, Richard F., 3,436,967.
Ryan, Donald P., 3,471,717.

Airequipt Inc.: *See*—
Aasen, Torulf F.; Schlessel, Joseph H.; and Waznys, Peter J., 3,459,474.
Schlessel, Joseph H., 3,453,044.
Schlessel, Joseph H., 3,479,548.

Airflow Developments Limited: *See*—
Bagley, Peter Edward, 3,426,598.

Airflow Housewares Limited: *See*—
Williams, Charles V., 3,443,328.

Airhart, Durwood L.: *See*—
Ucko, Franz; and Airhart, Durwood L.,3,457,012.

Airheart, Franklin B., to Airheart Products Inc. Shock joint. 3,427,827, 2-18-69, Cl. 64-14.

Airheart Products Inc.: *See*—
Airheart, Franklin B., 3,427,827.

Airline Welding and Engineering: *See*—
Oertel, Richard J., 3,473,001.

Airola, Ellis John, to General Electric Company. Inorganic glass coating and method for making. 3,460,955, 8-12-69, Cl. 106-74.

Airola, Ellis John, to General Electric Company. Method of applying a binder to electrophoretically deposited porous matrix. 3,479,268, 11-18-69, Cl. 204-181.

Airotec, Inc.: *See*—
Royston, Charlie A., Jr., 3,438,167.

Airpax Electronics Incorporated: *See*—
Harper, George S., 3,444,488.
Harper, George S., 3,486,140.
Vlasak, Weldon Richard Harry, 3,466,555.

Airstream Products, Inc.: *See*—
Malissa, Carl A., 3,451,163.

Airtex Products: *See*—
Parrent, William Russell; and Gray, Robert J., 3,447,408.
Phillips, Claude F.; and Parrent, William Russell, 3,452,591.

Airtherm Manufacturing Company: *See*—
White, Henry A., 3,458,168.

Aisaka, Noboru: *See*—
Kawakami, Tatsuya; and Aisaka, Noboru,3,449,931.

Aisanich, Daniel J., to Ardco, Inc. Antisock control devices for electrically heated glass panels or the like. 3,449,551, 6-10-69, Cl. 219-511.

Aisanich, Daniel J., to Ardco, Inc. Electrically heated glass panel with anti-shock control circuit having electronic switches. 3,475,594, 10-28-69, Cl. 219-509.

Aisin Seiki Company Limited: *See*—
Fujita, Saburo; and Kobashi, Uichiro, 3,463,282.
Kuno, Syozo, 3,450,241.
Moroto, Shuzo; and Kawabe, Tsuneo, 3,469,443.
Noguchi, Masaaki; and Sakakibara, Shigeru, 3,453,907.
Toyoda, Minoru; and Kobashi, Uichiro, 3,482,552.

Aisin Seiki Kabushiki Kaisha: *See*—
Fujita, Saburo; and Kobashi, Uichiro, 3,430,743.
Inada, Masami, 3,448,835.
Inada, Masami, 3,480,335.
Kawabe, Tsuneo; and Kobayashi, Toyoaki, 3,424,281.
Kobashi, Uichiro, 3,443,744.
Kobayashi, Toyoaki, 3,476,220.
Oguri, Katsuhiko, 3,430,744.
Shimobayashi, Shoji, 3,468,272.

Aiso, Hiroshi; Nomura, Shunichi; and Takeuchi, Toshinobu, to Daikin Kogyo Kabushiki Kaisha. Process for manufacturing hydrogen fluoride. 3,469,939, 9-30-69, Cl. 23-153.

Aitchinson, Don E., to Honeywell, Inc. Analog-digital hybrid divider apparatus using fractional arithmetic. 3,428,790, 2-18-69, Cl. 235-150.5

Aitchison, Colin Stuart; and Davies, Robert, to U.S. Philips Corporation. Diode parametric amplifier. 3,467,907, 9-16-69, Cl. 330-4.9

Aitchison, Don E., to Honeywell Inc. Analog-digital hybrid divider apparatus. 3,435,193, 3-25-69, Cl. 235-150.52

Aitchison, Don E., to Honeywell Inc. Hybrid multiplier apparatus., 3,470,363, 9-30-69, Cl. 235-150.52

Aitken, James B.: *See*—
Cannon, Ernest W.; and Byrens, David W., 3,463,218.

Aitken, James B., to Instant Structures, Inc. Hinged, collapsible, structural cover. 3,461,626, 8-19-69, Cl. 52-71.

Aitken, John; and Droulers, Jean-Louis, to Schlumberger Technology Corporation. Thru-tubing bridge plug. 3,460,624, 8-12-69, Cl. 166-285.

Aitken, Roxburgh Richmond; and Marklow, Raymond Joseph, to Imperial Chemical Industries Limited. Manufacture of amino polyether polyols. 3,446,848, 5-27-69, Cl. 260-584.

Aitken, Thomas: *See*—
Jursich, Myron J.; and Aitken, Thomas,3,424,650.

Aitkens, Edward B. Bank check holder. 3,447,677, 6-3-69, Cl. 206-73.
Aiura, Masanobu: *See—*
Nagai, Torao; Aiura, Masanobu; Tanaka, Shuzo; and Chiba, Shu,3,437,777.
Aiwa Co., Ltd.: *See—*
Wakabayashi, Rinske, 3,471,104.
Aizawa, Hiizu: *See—*
Nakayama, Chozo; Kaku, Teiichi; Aizawa, Hiizu; and Iwamoto, Takeaki,3,472,017.
Aizawa, Tadashi. Automatic veneer cutting apparatus. 3,477,327, 11-11-69, Cl. 83-371.
Aizawa, Tatsuo: *See—*
Dohi, Yasusuke; and Aizawa, Tatsuo,3,425,332.
Ajax Hardware Manufacturing Corp.: *See—*
Arias, Henry, Jr.; and Fremstad, Viles K., 3,423,786.
Gorton, Howard B.; and Arias, Henry, Jr., 3,432,879.
Jerila, Torsti T. T.; and Holmes, Frank A., 3,452,387.
Ajax Magnethermic Corporation: *See—*
Biringer, Paul Peter, 3,436,641.
Ross, Nicholas V., 3,424,886.
Ross, Nicholas V.; and Logan, John A., 3,485,985.
Ross, Nicholas V., 3,485,986.
Segsworth, Robert Sidney, 3,436,642.
Segsworth, Robert Sidney, 3,478,155.
Segsworth, Robert Sidney, 3,478,156.
Sommer, Richard A., 3,441,261.
Tama, Mario, 3,463,864.
Tama, Mario; and Ross, Nicholas V., 3,485,983.
Ajax Manufacturing Company, The: *See—*
Kull, Albert R.; and Rettig, Peter P., 3,431,768.
Kull, Albert R.; and Logan, Warner C., 3,443,414.
Ajem Laboratories, Inc.: *See—*
Arnold, Orlan M.; Hanson, Victor W.; Jamison, Robert M.; Panzica, Nicholas J.; and Umbricht, Emil, 3,475,881.
Hinderer, Edward F.; and Dallier, Charles F., 3,457,775.
Hinderer, Edward F., 3,483,733.
Martin, John L., 3,485,980.
Millhiser, Robert G., 3,440,703.
Newman, Marvin K., 3,422,958.
Newman, Marvin K.; and Arnold, Orlan M., 3,439,810.
Panzica, Nicholas J.; Jamison, Robert M.; and Umbricht, Emil, 3,444,669.
Reynders, Eugene Albert, 3,423,784.
Umbricht, Emil, 3,463,088.
Umbright, Emil, 3,481,450.
Ajinomoto Co., Inc.: *See—*
Kaai, Jiro; Ninomiya, Tsunehiko; Okumura, Shinji; and Hayashi, Koichi, 3,457,083.
Nagao, Masanori; Sato, Naotake; and Akashi, Takekazu, 3,425,919.
Okumura, Shinji; Yoshinaga, Fumihiro; and Yoshihara, Yasuhiko, 3,463,704.
Sakakibara, Shumpei, 3,445,447.
Sato, Shui; Sakamoto, Eiichi; and Sakurai, Setsuji, 3,475,174.
Suzuki, Katsumi; and Kumashiro, Izumi, 3,450,693.
Umeda, Hideyo, 3,420,374.
Wakamatsu, Hachiro; Takesada, Masahiko; and Sato, Jiro, 3,420,895.
Wakamatsu, Hachiro; Sato, Jiro; Takesada, Masahiko; and Sato, Seiicho, 3,445,505.
Yamazaki, Akihiro; Meguro, Takashi; Kumashiro, Izumi; and Takenishi, Tadao, 3,454,559.
Ajnefors, Karl Gunnar, to Salen & Wicander AB. Apparatus for washing the cargo tanks of ships, particularly oil tankers. 3,420,444, 1-7-69, Cl. 239-227.
Akabane, Shunei: *See—*
Tsuruga, Masanori; Murakami, Shogo; Kondo, Katsutoshi; Akabane, Shunei; Washikita, Kenji; and Koshino, Tameo,3,478,101.
Akachi, Hisateru, to Oki Densen Kabushiki Kaisha. Method of and apparatus for forming stranded cables by high speed tensile helicoid system. 3,446,001, 5-27-69, Cl. 57-138.
Akademii Nauk U.S.S.R.: *See—*
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich; Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich, 3,430,150.
Akagawa, Tsugio: *See—*
Tachimoto, Kazuo; Kamoshida, Tsugio; and Akagawa, Tsugio,3,429,362.
Akagi, Saburo: *See—*
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,448,074.
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,436,369.
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide,3,437,633.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,233.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi,3,474,068.
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,232.
Negoro, Harutada; Awada, Etsuo; Ikegami, Yoshihiko; Akagi, Saburo; and Matsui, Katsuaki,3,477,995.
Akagi, Shoji, to Nippon Gakki Seizo Kabushiki Kaisha. Sound board ribs. 3,443,464, 5-13-69, Cl. 84-195.
Akahori, Hiroshi, to Hitachi, Ltd. Device for exchanging pole piece assemblies of an electron lens in an electron microscope. 3,448,262, 6-3-69, Cl. 250-49.5
Akahori, Hiroshi, to Hitachi, Ltd. Photographing shutter and fluorescent plate structure for electron microscopes. 3,452,194, 6-24-69, Cl. 250-49.5
Akai Electric Company Limited: *See—*
Atsumi, Katsuya, 3,421,767.
Atsumi, Katsuya, 3,439,126.
Atsumi, Katsuya, 3,443,812.
Atsumi, Katsuya, 3,448,940.
Iwai, Katsuyuki; Fukatsu, Motonori; and Atsumi, Katsuya, 3,465,098.
Iwai, Katsuyuki; Fukatsu, Motonori; and Sato, Fujio, 3,483,318.
Sato, Keisuke, 3,435,300.
Akamatsu, Hiroo; Morita, Takanobu; Kamei, Mikio; and Nozoe, Yasuhiro, to Tateisi Electronics Co. System for photo-electrically detecting and marking defects in a moving sheet with two distinguishable marking materials. 3,479,518, 11-18-69, Cl. 250-219.
Akanuma, Kaneo: *See—*
Wada, Toshiya; Akanuma, Kaneo; and Takata, Toshihiko,3,477,881.
Akao, Yasuo; and Hattori, Shuzo. Wide frequency range scanning microwave gas spectrometer. 3,456,185, 7-15-69, Cl. 324-58.5
Akashi, Goro; and Fujiyama, Masaaki, to Fuji Shashin Film Kabushiki Kaisha. Magnetic recording element. 3,423,233, 1-21-69, Cl. 117-121.
Akashi, Robert. Lock collar nut. 3,429,352, 2-25-69, Cl. 151-19.
Akashi, Takekazu: *See—*
Nagao, Masanori; Sato, Naotake; and Akashi, Takekazu,3,425,919.
Akashi, Tsuneo; Takahashi, Masao; and Ohno, Tomeji, to Nippon Electric Company, Limited. Piezoelectric ceramic composition. 3,481,875, 12-2-69, Cl. 252-62.9
Akashi, Tsuneo; Takahashi, Masao; and Tsubouchi, Norio, to Nippon Electric Company, Limited. Piezoelectric ceramic composition. 3,481,874, 12-2-69, Cl. 252-62.9
Akashi, Tsuneo; Takahashi, Masao; Tsubouchi, Norio; Ohno, Tomeji; and Yamauchi, Fumio, to Nippon Electric Company, Limited. Piezoelectric ceramic composition. 3,461,071, 8-12-69, Cl. 252-62.9
Akashi, Tsuneo: *See—*
Tsubouchi, Norio; Takahashi, Masao; and Akashi, Tsuneo,3,472,778.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo,3,484,377.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo,3,487,019.
Akatsu, Mitsuharu, to Hitachi, Ltd. Electron beam deflection device for use in connection with cathode-ray tubes of television receivers and the like. 3,428,853, 2-18-69, Cl. 315-27.
Akatsu, Seiji: *See—*
Fukada, Joji; Akatsu, Seiji; Sugahara, Mitsuaki; Kurita, Yoshiji; and Kawabe, Naoshi,3,464,121.
Ake, Nelson E.; and McArtney, John J., to Wagner Electric Corporation. Pulse amplifier. 3,459,985, 8-5-69, Cl. 313-89.
Akeley, Lloyd T., to Foxboro Company, The. Differential-pressure-responsive apparatus. 3,474,673, 10-28-69, Cl. 73-407.
Aker, Jimmie R.: *See—*
Cullen, Roy H.; Elliott, Charles H.; Aker, Jimmie R.; and Burke, William E.,3,446,297.
Aker, John L., to King Radio Corporation. Method and apparatus for rapid search distance measuring equipment. 3,456,257, 7-15-69, Cl. 343-7.3
Akerman, Emanuel: *See—*
Pomper, Seymour; and Akerman, Emanuel,3,440,058.
Pomper, Seymour; and Akerman, Emanuel,3,440,059.
Pomper, Seymour; and Akerman, Emanuel,3,448,010.
Akerman, Karl Aron Lennart. Shifting beam microspectrophotometer with means for selectively varying paths of reference and sample beams through a common optical system. 3,463,592, 8-26-69, Cl. 356-95.
Akermanis, Andrey O. Small boat boarding apparatus. 3,464,517, 9-2-69, Cl. 182-97.
Akers, Alvin, to General Electric Company. Fluid nozzle. 3,466,902, 9-16-69, Cl. 68-207.
Akers, Dale M.: *See—*
Howell, Samuel G.; and Akers, Dale M.,3,427,191.

Howell, Samuel G.; and Akers, Dale M.,3,432,339.
Akers, Edward G.: *See—*
Johnson, Keith M.; Marine, Robert P.; and Akers, Edward G.,3,473,556.
Akers, George J.: *See—*
Sexton, Robert W.; and Akers, George J.,3,434,700.
Akers, John N. Distillation system with vertically stacked horizontally inclined evaporators. 3,458,405, 7-29-69, Cl. 202-236.
Akers, Ronald R., to Westinghouse Electric Corporation. Electrode having oxygen jets to enhance performance and arc starting and stabilizing means. 3,446,902, 5-27-69, Cl. 13-18.
Akerson, David W.: *See—*
Bronstien, Edward L., Jr.; Akerson, David W.; Gaffney, Bernard J.; and Fisher, Richard A.,3,429,767.
Akervold, Orrill L.; and Kutny, William J., Jr., to Honeywell Inc. Transducer for producing two coaxial beam patterns of different frequencies. 3,457,543, 7-22-69, Cl. 340-10.
Akhagen, Rune V., to Forsvarets Fabriksverk. Smoke ammunition containing liquid smoke producer and an absorption active powder. 3,459,129, 8-5-69, Cl. 102-90.
Akimoto, Kiyoshi: *See—*
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro,3,425,359.
Akimoto, Masamichi: *See—*
Miyake, Yasuhiko; Adachi, Saburo; Yamauchi, Norifumi; Hayashi, Toshio; and Akimoto, Masamichi,3,426,041.
Akin, Jerome E.: *See—*
Elliott, George A.; Akin, Jerome E.; and Mac Gregor, Rob R.,3,434,937.
Akin, Welling T.; and Bongort, Edgar A., to B/W Controller Corporation. Electrical connector. 3,475,719, 10-28-69, Cl. 339-182.
Akino, Tadaharu: *See—*
Matsushima, Mitsuo; Akino, Tadaharu; and Kato, Shigeru,3,449,704.
Akird Misono: *See—*
Misono, Akira; and Osa, Tetsuo, 3,485,726.
Akita, Tadayoshi: *See—*
Mitsuishi, Iwao; and Akita, Tadayoshi,3,477,779.
Akita, Yoshio: *See—*
Nakamura, Hajima; and Akita, Yoshio,3,484,930.
Akita, Yoshio; Maeda, Toyoo; and Yada, Toshio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Low temperature liquid storage tank. 3,464,175, 9-2-69, Cl. 52-249.
Akiyama, Hideo; and Artaud, Maurice H., to National Cash Register Company, The. Electrostatic developer. 3,442,254, 5-6-69, Cl. 118-637.
Akiyama, Hideo; and Stockwell, David G., to National Cash Register Company, The. Micro-image display apparatus. 3,424,524, 1-28-69, Cl. 353-22.
Akiyama, James K., to Diamond Shamrock Corporation. Composition comprising urea-formaldehyde resin, triester of H_3PO_4, and alkyl phosphite. 3,451,968, 6-24-69, Cl. 260-71.
Akiyama, Masayasu: *See—*
Iwakura, Yoshio; and Akiyama, Masayasu,3,484,389.
Akiyama, Mitsuo: *See—*
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; Akiyama, Mitsuo; and Kikuchi, Ukichi,3,420,592.
Akiyama, Shinichi: *See—*
Sakuragi, Taketami; Jyo, Yoshio; Akiyama, Shinichi; and Minami, Shoichiro,3,454,446.
Akiyama, Sumio: *See—*
Mizutani, Yukio; Tesima, Wataru; Akiyama, Sumio; Yamane, Reiichi; and Ihara, Hirohumi,3,451,951.
Akiyama, Susumu; and Mine, Yukio, to Nippon Electric Company, Limited. Negative feedback amplifier. 3,473,136, 10-14-69, Cl. 330-28.
Akiyama, Tadahiko: *See—*
Shirasu, Hirotoshi; Akiyama, Tadahiko; and Arai, Yasumichi,3,445,605.
Akiyama, Takao: *See—*
Eguchi, Takashi; Iwabuchi, Shinichi; and Akiyama, Takao,3,467,493.
Akiyoshi, Akikazu: *See—*
Suzuki, Saburo; Kurata, Masaya; Akiyoshi, Akikazu; Aoshima, Shozo; Dan, Hirohiko; and Matsuoka, Norimichi,3,484,472.
Aklufi, Monti E. Method of fabricating semiconductor devices. 3,461,550, 8-19-69, Cl. 29-578.
Akmenkalns, Ivars G.; Gamblin, Rodger L.; and Lord, Philip A., to International Business Machines Corporation. Ferriresonant memory system. 3,461,441, 8-12-69, Cl. 340-174.
Akmentin, Cyril. Suspended wheeled vehicle having auxiliary air cushion and airfoil running gear. 3,444,823, 5-20-69, Cl. 105-64.
Akrenius, Huvi Israel. Arrangement for a band saw apparatus. 3,456,695, 7-22-69, Cl. 143-17.
Akron Brass Company: *See—*
Allenbaugh, George G., Jr., 3,460,797.
Akron National Bank and Trust Company: *See—*
Hudak, Thomas P., 3,454,304.
Aks, Stanleigh W. Pile mooring bumper. 3,486,342, 12-30-69, Cl. 61-46.
Aksu, Akin. Fluid pressure actuated electrical coupler systems. 3,456,086, 7-15-69, Cl. 200-81.
Aktiebolaget Addo: *See—*
Ljungdell, Stig Helge Lennart; Uvelius, Karl-Birger; and Berntson, Karl-Erik, 3,487,268.
Aktiebolaget Astra: *See—*
Brohult, Astrid Helena; Brohult, Sven Fritiof Abraham; Hallgren, Bo Erik; and Brohult, Johan Axel, 3,432,602.
Ekstrom, Bertil Ake; and Sjoberg, Berndt Olof Harald, 3,471,474.
Rydh, Thore Oskar Verner, 3,478,073.
Aktiebolaget Astra Apothekarnes Kemiska Fabriker: *See—*
Dahlbom, Johan Richard; and Karlen, Bo Lennart, 3,444,171.
Aktiebolaget Atomenergi: *See—*
Ahrland, Sten Harald, 3,484,216.
Bergstrom, Johan Gunnar; and Bergsten, Hans Nils, 3,486,420.
Braun, Josef, 3,440,457.
Dissing, Erik; and Lyden, Anders Gustaf, 3,479,593.
Gronlund, Kaj Anders, 3,447,576.
Hultgren, Ake Valdemar, 3,458,290.
Jansson, Robert Mauritz; Strandell, Erik Axel; and Wik, Claes Gustaf, 3,456,708.
Lyden, Anders Gustaf, 3,424,922.
Wadmark, Lars Olof Tor, 3,454,467.
Aktiebolaget Autokemi: *See—*
Jungner, Olov Gunnar Hugo; and Jungner, Bengt Gosta Ingmar, 3,474,913.
Aktiebolaget Bandindustri: *See—*
Erlandsson, Karl Gunnar, 3,474,979.
Aktiebolaget Biox: *See—*
Edebo, Lars Bennet, 3,458,139.
Aktiebolaget Blomborgs Mekaniska: *See—*
Blomborg, Karl Georg, 3,464,663.
Aktiebolaget Bofors: *See—*
Aldrin, Henry Wilhelm; and Kindrot, Erik Birger, 3,461,773.
Bostroem, Hans; and Howey, Friedrich, 3,439,318.
Edman, Bjorn Rudolf; and Oman, Olof, 3,486,330.
Hammarskjold, Sven; and Lenne, Curt Yngve, 3,467,747.
Holmstrom, Sven Carl-Johan; Nilsson, Per-Erik; and Olson, Tore Bertil, 3,443,774.
Jonsson, Sune Otto Gunnar, 3,476,117.
Lundin, Lars Olof; and Salomonsson, Hans Manne Alvar, 3,477,339.
Olsson, Tore Bertil Reinhold; and Berggren, Hans Gunnar, 3,471,743.
Thunholm, Carl Harje Gustav, 3,477,541.
Aktiebolaget Casco: *See—*
Safholm, Sven Tore Anders; Sundquist, Bengt Lennart; and Franksson, Jan Rolf, 3,473,514.
Aktiebolaget Celleco: *See—*
Skardal, Karl Arvid, 3,446,354.
Aktiebolaget Electrolux: *See—*
Agerley, Harald J., 3,476,365.
Bjork, Bengt Anders, 3,454,353.
Eliassen, Gunnar Thure, 3,424,320.
Grellsson, Karl Gustav, 3,458,891.
Grellsson, Karl Gustav, 3,466,696.
Groschopp, Herbert Gerhard; Hillbom, Per Tage Borje; and Nilsson, Bengt Erik, 3,474,274.
Hellstrom, Nils Erik; and Ekholm, Rolf Leo, 3,458,872.
Hughes, George Leslie, 3,423,907.
Reistad, Bengt Reistad, 3,473,346.
Stromqvist, Karl Borje, 3,439,665.
Aktiebolaget Gotaverken: *See—*
Arpas, Ferenc; and Thorsson, Clas Ove, 3,441,721.
Johnsson, Nils Gustav, 3,467,169.
Marthins, Nils Lennart, 3,482,554.
Wessberg, Jacob Erland Magnus, 3,421,462.
Aktiebolaget Gylling & Co.: *See—*
Johansson, Carl-Gustav Simon, 3,452,732.
Johansson, Carl-Gustav Simon, 3,456,121.
Johansson, Carl-Gustav Simon, 3,480,839.
Lindgren, Owe, 3,461,240.
Aktiebolaget Hagglund & Soner: *See—*
Agren, Sven Birger, 3,430,534.
Agren, Sven Birger; Andersson, Bjorn A. H.; and Andersson, Nils Svante, 3,480,117.
Aktiebolaget Hakanssons Industrier: *See—*
Nordstedt, Hans Josef; and Delin, Lars Folke, 3,458,873.
Aktiebolaget Hassle: *See—*
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar, 3,466,325.
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar, 3,466,376.
Brandstrom, Arne Elof; and Carlsson, Stig Ake Ingemar, 3,485,835.
Corrodi, Hans Rudolf; and Carlsson, Per Arvid Emil, 3,422,140.
Corrodi, Hans Rudolf; and Carlsson, Per Arvid Emil, 3,422,141.
Aktiebolaget Hedemora Verkstader: *See—*
Lundh, Bengt Olov, 3,485,294.

Aktiebolaget Helios Kemisk-Tekniska Fabriker: *See—*
Lindquist, Arne M., 3,478,934.
Aktiebolaget Interconsult: *See—*
Jakobsson, Rolf Elis; and Andersson, Kurt Allan, 3,448,900.
Aktiebolaget Kalle-Regulatorer: *See—*
Attebo, Erik Gunnar, 3,425,218.
Attebo, Erik Gunnar, 3,482,589.
Gustafsson, Berth Ulrik, 3,455,145.
Aktiebolaget Kamyr: *See—*
Laakso, Oliver A., 3,475,271.
Laakso, Oliver Armas, 3,425,898.
Laakso, Oliver Armas, 3,445,328.
Richter, Johan C. F. C., 3,427,218.
Richter, Johan C. F. C., 3,429,773.
Aktiebolaget Kanthal: *See—*
Schrewelius, Nils Gustav, 3,465,965.
Aktiebolaget Landsverk: *See—*
Jung, Erland Viktor, 3,470,815.
Mundt-Petersen, Just Henrik; and Eriksson, Karl Ake, 3,431,016.
Aktiebolaget Leo (A/B Leo): *See—*
Ringarp, Nils E., 3,461,203.
Aktiebolaget Linde Maskiner: *See—*
Andren, Ingmar Karl Linus, 3,457,604.
Aktiebolaget Maxbo: *See—*
Paabo, Max, 3,486,955.
Aktiebolaget Nordstroms Linbanor Corporation: *See—*
Iversen, Per Gunnar, 3,420,358.
Aktiebolaget Orga: *See—*
Dahlin, Olof Gustaf, 3,460,795.
Aktiebolaget Original-Odhner: *See—*
Almvide, Sven, 3,466,939.
Pozzi, Luciano, 3,462,077.
Aktiebolaget Parator: *See—*
Lofgren, William, 3,485,392.
Aktiebolaget Peritus Enkoping: *See—*
Gustavson, Fredrik, 3,459,914.
Aktiebolaget Pharmacia: *See—*
Flodin, Per Gustaf Magnus; Granath, Kirsti Annikki; Ingelman, Bjorn Gustaf-Adolf; and Johansson, Christina, 3,453,364.
Hjelte, Nils Sixten; and Lindblom, Ragnvald Erik, 3,429,921.
Aktiebolaget Scania-Vabis: *See—*
Nordstrom, Sigurd Andrew Mauritz, 3,448,842.
Aktiebolaget Separator: *See—*
Filstrup, Poul, 3,450,537.
Aktiebolaget Siefvert & Fornander: *See—*
Hedborg, Lennart, 3,430,785.
Hedborg, Lennart, 3,431,954.
Aktiebolaget Skane-Emballage: *See—*
Zetterberg, Einar, 3,477,202.
Aktiebolaget Stille-Werner: *See—*
Hessner, Hans, 3,474,592.
Aktiebolaget Svenska Flaktfabriken: *See—*
Aronsson, Arent; and Tornqvist, Erik, 3,467,541.
Berg, Bengt, 3,431,707.
Bergh, Lars-Gunnar, 3,429,055.
Blomgren, Lars; and Johansson, Ake, 3,434,224.
Blomgren, Lars; and Johansson, Ake, 3,452,446.
Dock, Nils, 3,453,369.
Jeppsson, Allan, 3,422,525.
Malmquist, Lars, 3,434,222.
Malmquist, Lars, 3,445,939.
Malmquist, Lars, 3,456,356.
Mattsson, Malte Kurt Einar, 3,431,927.
Mildh, Gosta, 3,461,650.
Norelius, Einar, 3,444,894.
Steinholtz, Gosta; and Aronsson, Bo, 3,438,588.
Vegeby, Anders, 3,455,363.
Vegeby, Anders, 3,456,709.
Vegeby, Anders, 3,468,397.
Waermo, Harry, 3,455,525.
Wallin, Sven, 3,439,406.
Widerby, Lennart, 3,423,896.
Wilhelmsson, Gunnar, 3,426,509.
Aktiebolaget Svenska Kullagerfabriken: *See—*
Gothberg, Karl Evald Andreas, 3,439,777.
Lilja, John Allan; and Ljungholm, Ake Eskil, 3,471,902.
Aktiebolaget Svenska Kullagergabriken: *See—*
Johansson, Yngve Lennart; and Orte, Sven Erik Willner, 3,465,848.
Aktiebolaget Svenska Metallverken: *See—*
Jonason, Karl Gunnar, 3,442,107.
Jonason, Karl Gunnar, 3,465,568.
Aktiebolaget Svenska Precisionsverktyg: *See—*
Lind, Carl Eric Gottfrid, 3,464,358.
Lind, Carl Eric Gottfrid, 3,478,688.
Aktiebolaget Tudor: *See—*
Nyberg, Hugo C.L.; and Groby, Bernt H.C., 3,484,299.
Sundberg, Erik G., 3,484,300.
Sundberg, Erik Gustav, 3,429,752.
Aktiebolaget Volvo: *See—*
Nelson, Gosta Ingemar, 3,441,008.
Nelson, Gosta Ingemar, 3,456,634.
Aktiengesellschaft Adolph Saurer: *See—*
Jager, Rudolf; Macho, Helmut; and Zwiener, Rudolf, 3,430,665.
Aktiengesellschaft Brown, Boveri & Cie: *See—*
Baukal, Werner, 3,429,749.
Baumann, Hans; Erni, Edoardo; and Horvath, Attila, 3,462,159.
Blatter, Hans; and Wuthrich, Rolf, 3,479,578.
Brandt, Armand, 3,435,321.
Breuer, Erich, 3,472,503.
Brischnik, Franz, 3,431,464.
Brugger, Werner; and Hitz, Eugen, 3,457,356.
Christener, Hanspeter, 3,441,803.
Darrieus, Georges, 3,462,624.
Dzung, Lang Shuen, 3,428,835.
Eugster, Edouard, 3,432,733.
Eugster, Edouard, 3,437,889.
Eugster, Eduard; and Spickenreuther, Dieter, 3,449,826.
Favereau, Jacques Rene, 3,428,927.
Fischer, Wilfried; and Pini, Giancarlo, 3,484,294.
Floessel, Carl-Dieter; and Mauthe, Gerhard, 3,440,379.
Floessel, Carl-Dieter, 3,475,575.
Floessel, Dieter; and Mauthe, Gerhard, 3,424,884.
Frowein, Egbertus Adrianus, 3,439,140.
Frowein, Egbertus Adrianus, 3,480,751.
Ganger, Berthold, 3,454,804.
Giammona, Salvatore, 3,448,287.
Gluck, Roswitha; Lutz, Edgar; Riess, Horst; and Weinmann, Klaus, 3,442,724.
Haditsch, Werner, 3,454,802.
Haller, Max, 3,461,368.
Hartmann, Max; and Burger, Willy, 3,461,915.
Herger, Hans, 3,457,871.
Horvat, Ivan, 3,450,979.
Hugi, Litty, 3,467,760.
Irmler, Horst; and Voss, Bernhard, 3,449,649.
Jahn, Dieter, 3,476,661.
Jenny, Ernst; and Dzung, Lang Shuen, 3,479,537.
Knapp, Peter; and Wallstein, Dieter, 3,462,672.
Koppl, Georg; and Sanders, Mathias, 3,443,142.
Kranz, Rolf-Dieter, 3,469,125.
Kruger, Winfried, 3,438,684.
Langpape, Reinhart; and Jester, Alfred, 3,436,566.
Langpape, Reinhart; and Jester, Alfred, 3,453,455.
Linsi, Ulrich, 3,427,083.
Marx, Erwin; and Koch, Werner, 3,454,823.
Merhof, Wilfried; and Stadler, Bruno, 3,435,327.
Oberle, Artur, 3,453,032.
Philipps, Reinhard, 3,422,338.
Plust, Heinz-Gunther, 3,423,248.
Pohl, Herbert, 3,458,738.
Rauhut, Paul; Glavitsch, Johann; and Cuny, Robert, 3,471,708.
Rosner, Manfred, 3,459,975.
Roth, Karl; Anwander, Elmar; and Schonhuber, Max-Josef, 3,441,773.
Ruffieux, Leon, 3,428,821.
Scharli, Otto, 3,480,842.
Schwarzenbach, Alfred, 3,457,725.
Stahl, Kurt; Langpape, Reinhart; and Rasor, Ned S., 3,440,455.
Stolarz, Walter, 3,475,574.
Stopp, Alfred, 3,466,745.
Trenkowitz, Gerhard, 3,422,635.
Vogel, Xaver, 3,458,672.
Weisshaar, Erich; and Spickenreuther, Dieter, 3,457,474.
Wiedemann, Eugen, 3,469,126.
Wiedemann, Eugen; Kranz, Rolf-Dieter; and Sark, Werner, 3,487,243.
Winkler, Kurt; and Wunsch, Alfred, 3,458,116.
Zumsteg, Viktor, 3,450,915.
Aktiengesellschaft Cilander: *See—*
Muller, Hermann Georg; and Krucker, Werner, 3,465,553.
Aktiengesellschaft Conrad Zschokke: *See—*
Massa, Cesar, 3,450,233.
Aktiengesellschaft der Von Moos'schen Eisenwerke: *See—*
Schneckenburger, Emil; and Thalman, Armin, 3,483,915.
Aktiengesellschaft fur Brauereiindustrie: *See—*
Raible, Karl J., 3,436,225.
Aktiengesellschaft Gebrueder Loepfe: *See—*
Loepfe, Erich, 3,447,303.
Aktieselskabet Brodrene Hartman: *See—*
Seest, Tage B.; and Schmidt, Karl Lykke, 3,471,078.
Aktieselskabet Burmeister & Wain's Maskin- og Skibsbyggeri: *See—*
Bendixen, Knud Erik, 3,464,630.
Aktieselskabet de Danske Sukkerfabrikker: *See—*
Bruniche-Olsen, Henning Anton, 3,471,328.
Faaborg-Andersen, Axel Valdemar; and Jensen, Poul, 3,433,598.
Madsen, Rud F., 3,451,403.
Aktieselskabet Grendstedvaerket: *See—*
Vrang, Carl; Krog, Niels; and Lauridsen, Jens Birk, 3,479,189.

Aktieselskabet Niro Atomizer: *See—*
Nielsen, Kaj, 3,454,226.
Nielsen, Kaj, 3,481,546.
Repsdorph, Inger; Kroyer, Karl Kristian Kobs; and Damgard-Iversen, Jorgen, 3,477,874.
Aktieselskabet Paasch & Silkeborg Maskinfabrikker: *See—*
Pedersen, Aksel, 3,433,147.
Akunts, Karlen Arminakovich; Kartsev, Alexandr Efimovich; Elchaninov, Ivan Nikiforovich; Tarnopolsky, Jury Matveevich; and Fish, Aron Yakovlevich. Reinforcing unit for commutators of electrical machines. 3,457,446, 7-22-69, Cl. 310-235.
Akustische u Kino-Gerate Gesellschaft m.b.H.: *See—*
Gorike, Rudolf, 3,436,495.
Gorike, Rudolf, 3,483,324.
Pless, Ernst, 3,433,905.
Pless, Ernst; and Gorike, Rudolf, 3,436,482.
Weingartner, Bernhard, 3,436,493.
Akutsu, Hidezo: *See—*
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,492.
Al Marachy, Pierre F., to S.I.P.S. Societe pour l'Identification Photographique du Groupe Sanguin. Apparatus for determining the blood group of a specimen. 3,453,941, 7-8-69, Cl. 95-1.1
Al-Roy, John D., to Monsanto Company. Container. 3,443,720, 5-13-69, Cl. 220-60.
Al-Roy, John D., to Monsanto Company. Sealed reclosable container having stacking features. 3,460,711, 8-12-69, Cl. 220-60.
Aladdin Manufacturing Company: *See—*
Wintz, Donald E., 3,420,221.
Alai, John A., to General Electric Company. Tension string drag structures for planetary entry vehicle. 3,433,435, 3-18-69, Cl. 244-1.
Alais, Pierre. Displacement measuring system with high frequency source and low frequency output terminal connected by coaxial cable to measurement and detection circuit. 3,426,271, 2-4-69, Cl. 324-61.
Alamance Industries, Inc.: *See—*
Comer, Marvin H.; and Fain, Bobby Ray, 3,423,924.
Shields, Harper, 3,479,843.
Alana, James K.; and Hirata, Daniel K. Multiple chair lifter. 3,424,327, 1-28-69, Cl. 214-620.
Alarm Lock Corporation: *See—*
Ruckel, Frank G.; and Fox, David, 3,464,728.
Alaron Pattern & Model, Inc.: *See—*
Hyter, Alfred C., 3,437,084.
Alaska Elevator Corporation: *See—*
St. Louis, Donald L., 3,463,271.
Alaska Peelers, Inc.: *See—*
Willis, John C.; and Sundberg, Odd B., 3,465,383.
Willis, John C.; and Sundberg, Odd B., 3,466,699.
Alaskang, Inc.: *See—*
Miller, Robert W., 3,463,254.
Alban, Clarence F., to Chase, W. M., Company. Circuit breaker using magnetostrictive thermostatic flexure element. 3,486,152, 12-23-69, Cl. 337-106.
Albanese, Anthony A.; and Wein, Evelyn H. Apparatus for determining the number of white cells in a blood specimen. 3,454,337, 7-8-69, Cl. 356-36.
Albany Billiard Ball Company: *See—*
Faulkner, Ellis May, III, 3,426,121.
Albany Felt Company: *See—*
Frederick, Edward R., 3,487,296.
Woodside, Laurence M., 3,463,023.
Albarda, Scato, to North American Philips Company, Inc. Electronic switching devices. 3,422,312, 1-14-69, Cl. 317-6.
Albarino, Lawrence. Electro-mechanical reproduction of sound. 3,486,578, 12-30-69, Cl. 181-31.
Albeck, Bernhard; and Eissele, Heini, to Oku-Automatik Otto Kurz, Firma. Feeding apparatus for headed pins, spikes, or the like. 3,464,535, 9-2-69, Cl. 198-33.
Albemare Paper Company: *See—*
Williams, Robert C.; and Haigh, John M., 3,431,334.
Albemarle Paper Company: *See—*
Hamilton, Gordon A., 3,438,482.
Rohde, John J., 3,438,488.
Watters, Charles K., 3,477,348.
Alber, Hans: *See—*
Klemm, William F.; and Alber, Hans,3,426,793.
Alberani Julius, to Holley Carburetor Company. Pressure ratio device. 3,452,775, 7-1-69, Cl. 137-115.
Alberda, Gerrit, to A C F (Amsterdam Chemic Farmacie), mesne. Antihistaminic and motion sickness preventing compositions. 3,422,195, 1-14-69, Cl. 424-250.
Albers, George F., to General Electric Company. Brazing method. 3,442,010, 5-6-69, Cl. 29-494.
Albers, George F., to General Electric Company. Metallic brazing mixture. 3,442,641, 5-6-69, Cl. 75-0.5
Albers, Teunis. Prefabricated building construction. 3,457,698, 7-29-69, Cl. 52-225.
Albers; Walter R.; and Miller, Arthur T., to Owens-Illinois, Inc. Bird swing detector. 3,438,492, 4-15-69, Cl. 209-111.7
Albersmeyer, Walter, to Wibau Westdeutsche Industrie- und Strassenbau Maschinen-Gesellschaft m.b.H. Method and apparatus for the purification of sewage. 3,476,682, 11-4-69, Cl. 210-7.
Albert, Harry Elmer; and Haines, Paul Gordon, to Pennwalt Corporation. Bis(dialkylammonium)oxalates as accelerator activators in the vulcanization of elastomers. 3,487,056, 12-30-69, Cl. 260-79.5
Albert, Herman. Adjustable clamp. 3,441,265, 4-29-69, Cl. 269-203.
Albert, Irwin: *See—*
Brooke, Donald C.; and Albert, Irwin,3,459,990.
Albert, Klein K.G., Firma: *See—*
Pastoors, Eduard; and Saller, Rudolf, 3,459,122.
Albert, Michael Joseph: *See—*
Gabor, Dennis; and Albert, Michael Joseph,3,437,865.
Albert, Richard James, to Du Pont de Nemours, E. I., and Company. Web winding apparatus. 3,471,099, 10-7-69, Cl. 242-75.51
Albert, Wallace R.: *See—*
Cox, Ivan F.; and Albert, Wallace R.,3,482,028.
Albert, William C., to Singer-General Precision, Inc. Translation sensor. 3,481,204, 12-2-69, Cl. 73-490.
Alberti, George W.: *See—*
Alberti, Paul J.; Alberti, Henry; and Alberti, George W.,3,474,609.
Alberti, Henry: *See—*
Alberti, Paul J.; Alberti, Henry; and Alberti, George W.,3,474,609.
Alberti, Paul J.; Alberti, Henry; and Alberti, George W. Mechanical harvester for tree-borne fruits and nuts. 3,474,609, 10-28-69, Cl. 56-329.
Albertine, Albert W.; and Graves, John A., to McDonnell Douglas Corporation, mesne. Slider latch. 3,432,197, 3-11-69, Cl. 287-189.36
Albertini, Antonio. System for preparing bituminous conglomerates. 3,484,083, 12-16-69, Cl. 259-155.
Alberto, Carmen N. Lawn weeder. 3,444,934, 5-20-69, Cl. 172-25.
Alberto, Pietro: *See—*
Gillono, Matteo; and Alberto, Pietro,3,442,072.
Alberts, Herbert. Injection molding apparatus for manufacturing zippers. 3,454,984, 7-15-69, Cl. 18-4.
Alberts, Herbert. Method for making a slide fastener element. 3,487,145, 12-30-69, Cl. 264-261.
Alberts, James R.; and O'Hara, Kim L., to Rexall Drug and Chemical Company. Apparatus for gravity blending of solids. 3,421,739, 1-14-69, Cl. 259-4.
Albertson, Clarence E., to Borg-Warner Corporation. Electrolytic method of oxygen generation. 3,471,384, 10-7-69, Cl. 204-129.
Albertson, Clarence E., to Borg-Warner Corporation. Electrostatic printing media. 3,481,775, 12-2-69, Cl. 117-201.
Albertson, Orris E., to Dorr-Oliver Incorporated. Waste treatment for phosphate removal. 3,423,309, 1-21-69, Cl. 210-5.
Albertson, Orris E., to Dorr-Oliver Incorporated. Aerated lagoon waste treatment system. 3,485,750, 12-23-69, Cl. 210-8.
Albertson, Robert V. Wheel mounting attachment for ski-equipped vehicles. 3,477,734, 11-11-69, Cl. 280-11.
Albertzart, Roy R., Jr., to General Motors Corporation. High magnetic permeability cast alloy. 3,433,685, 3-18-69, Cl. 148-35.
Albest Metal Stamping Corporation: *See—*
Hirsch, Nathan A., 3,466,711.
Albina Engine and Machine Works, Inc.: *See—*
Cousins, Richard C.; Cooley, Eugene A.; Worstell, Wayne C.; and Eaton, James L., 3,424,272.
Albinak, Marvin J.; and Turner, Warren H., to Owens-Illinois, Inc. Photoluminescent glass systems. 3,440,172, 4-22-69, Cl. 252-301.6
Albinger, Harry, Jr., to General Electric Company. Torsion wire tension spring for a battery operated clock. 3,432,696, 3-11-69, Cl. 310-36.
Albinger, Harry, Jr., to General Electric Company. Permanent magnetic synchronous motor and starting mechanism therefor. 3,432,699, 3-11-69, Cl. 310-41.
Albinger, Harry, Jr., to General Electric Company. Torsion wire tension spring for battery operated clock. 3,454,799, 7-8-69, Cl. 310-36.
Albinger, Harry, Jr.; and Marble, Chester B., to General Electric Company. Adjustable torsion member mechanism for torsion member clocks. 3,432,697, 3-11-69, Cl. 310-36.
Albinger, Harry, Jr.; and Petrides, Christie, to General Electric Company. Battery operated clock. 3,461,663, 8-19-69, Cl. 58-23.
Albiswerk Zurich A.G.: *See—*
Bidese, Werner, 3,433,997.
Hossmann, Marcel K., 3,472,598.
Meyer, Walter; and Bedo, Zoltan, 3,432,726.
Tschannen, Gottfried, 3,473,129.
Welti, Arno, 3,434,141.
Alboucq, Robert L.: *See—*
Clukey, Wayne H.; Alboucq, Robert L.; and Clack, Alan V.,3,442,786.

Albrecht, Cord; and Kafka, Wilhelm, to Siemens Aktiengesellschaft. Winding for a magnet coil of high field strength and method of manufacturing the same. 3,466,581, 9-9-69, Cl. 335-299.
Albrecht, Cord; Kafka, Wilhelm; and Kullmann, Dieter, to Siemens Aktiengesellschaft. Coil-supporting structure for superconductive apparatus. 3,480,895, 11-25-69, Cl. 336-60.
Albrecht, Erwin H., to Bell Telephone Laboratories, Incorporated. Private branch exchange system having data trans- mission lines and means for preventing application of tones thereto. 3,435,150, 3-25-69, Cl. 179-27.
Albrecht, George O.: *See—*
Neal, Norman D.; Taylor, Ralph C., Jr.; and Albrecht, George O.,3,465,332.
Albrecht, Harry Allen; and Plati, John Thomas, to Hoffmann-La Roche, Inc.N'-and/or N^4-(lower alkoxyacetyl) sulfanilamides. 3,422,095, 1-14-69, Cl. 260-239.9
Albrecht, Harry Allen; and Plati, John Thomas, to Hoffmann-La Roche Inc. Process for producing 5-methylisoxazole. 3,422,115, 1-14-69, Cl. 260-307.
Albrecht, Helene nee Ruess,: *See—*
Brotz, Walter; Runge, Dietrich; and Albrecht, Manfred Karl Furchtegott,3,442,837.
Albrecht, Hilde: *See—*
Brotz, Walter; Runge, Dietrich; and Albrecht, Manfred Karl Furchtegott,3,442,837.
Albrecht, Manfred Karl Furchtegott: *See—*
Brotz, Walter; Runge, Dietrich; and Albrecht, Manfred Karl Furchtegott,3,442,837.
Albrecht, Raymond E.; Curran, Bernard E.; and Lindner, Robert G., to Robertson, H. H., Company. Composite floor construction. 3,462,902, 8-26-69, Cl. 52-336.
Albrecht, Werner; Dietze, Manfred; Kraft, Wolfgang; and Ullrich, Hansjurgen, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Polycondensation reactor. 3,440,019, 4-22-69, Cl. 23-285.
Albrecht, Wilhelm: *See—*
Eibl, Josef; and Albrecht, Wilhelm,3,483,770.
Albrecht, William L., to Nalco Chemical Company. Method of making silica sols containing large particle size silica. 3,440,174, 4-22-69, Cl. 252-313.
Albrektson, Helge Ragnar; and Kreimer, Charles C. Spiral staircase. 3,482,364, 12-9-69, Cl. 52-187.
Albright & Wilson (Mfg.) Limited: *See—*
Coates, Harold; and Hoye, Peter Albert Theodore, 3,446,826.
Greenfield, Stanley; Jones, Iorwerth Llewelyn William; and Christopher Thomas, 3,467,471.
Jacques, James Keith, 3,458,457.
Mole, Maurice Frederick; Jacques, James Keith; and Collins, John Desmond, 3,442,986.
Peck, Dennis Raymond, 3,468,935.
Smith, Raymond Anthony; and Dixon, John Thomas, 3,442,604.
Smith, Raymond Anthony; and Dixon, John Thomas, 3,446,581.
Smith, Raymond Anthony; and Dixon, John Thomas, 3,446,582.
Albright, Alto O. Wall mounted educational device. 3,425,568, 2-4-69, Cl. 211-87.
Albright, Charles Barton, to Sperry Rand Corporation. Sheet item turnaround device for a sheet handling system. 3,421,798, 1-14-69, Cl. 302-29.
Albright, Charles D.: *See—*
Pyles, Harley G.; Albright, Charles D.; and Haun, Robert E.,3,467,207.
Albright, Donald R.; Shartrand, Allan C.; and Otteson, Albert J., to General Electric Company. Dynamoelectric machine cooling arrangement. 3,441,758, 4-29-69, Cl. 310-58.
Albright, Henry J.; and Smith, Royal F., to Lektro-Vend Corporation. Check operated switches. 3,460,661, 8-12-69, Cl. 194-9.
Albright, Merle L.: *See—*
Craig, Francis A.; and Albright, Merle L.,3,481,688.
Albright, Robert A.: *See—*
Bielecki, Edwin J.; and Albright, Robert A.,3,437,430.
Albright, Thomas M.: *See—*
Weber, Robert L.; and Albright, Thomas M.,3,469,565.
Albris, Frank R., to Eaton Yale & Towne Inc. Canting lock bolt. 3,438,417, 4-15-69, Cl. 151-37.
Albro, Henry H., to Cabot Corporation. Pipe fitting having mechanical fastener for connecting the fitting to a pipe. 3,477,749, 11-11-69, Cl. 285-340.
Albsmeier, Hans: *See—*
Werther, Walter V.; Kunemund, Friedrich; and Albsmeier, Hans,3,471,645.
Albu, Theodor. Nose air filter. 3,463,149, 8-26-69, Cl. 128-140.
Alburger, James R. Cleaning process and compositions for post-emulsifier inspection penetrants. 3,422,670, 1-21-69, Cl. 73-104.
Alburger, James R. Gel-forming inspection penetrant and emulsifier compositions employing hydrophilic and lipophilic surfactants. 3,429,826, 2-25-69, Cl. 252-301.2
Alburger, William P., to Fox Products Company. Pressure insertable animal actuated nipple valve. 3,481,310, 12-2-69, Cl. 119-72.5
Alburn, Harvey E.: *See—*
Dvonch, William; and Alburn, Harvey E.,3,453,263.
Alburn, Harvey E.; and Grant, Norman H., to American Home Products Corporation. Control of enzyme activity in nonfluid gels. 3,455,783, 7-15-69, Cl. 195-29.
Alburn, Harvey E.; and Grant, Norman H., to American Home Products Corporation. Control of enzyme activity in frozen systems. 3,455,784, 7-15-69, Cl. 195-29.
Fenichel, Richard L.; and Alburn, Harvey E.,3,475,534.
Grant, Norman H.; Alburn, Harvey E.; and Fenichel, Ricard L.,3,481,917.
Grant, Norman H.; Alburn, Harvey E.; and Clark, Donald E.,3,487,105.
Greenspan, George; Ruelius, Hans W.; and Alburn, Harvey E.,3,453,179.
Alcan Aluminum Corporation: *See—*
Chalmers, Alexander A., 3,468,092.
Alcan Company, Incorporated: *See—*
Clark, Homer E., Jr., 3,422,762.
Clark, Homer E., Jr., 3,427,920.
Alcan Research and Development, Limited: *See—*
Davis, Robert Nelson; and Robinson, Allan Hoben, 3,485,078.
Alchem Limited: *See—*
Pollard, Leonard W., 3,428,464.
Alco Controls Corporation: *See—*
Douglas, Bradley C., 3,452,929.
Tilney, Ralph B.; and Chapman, George H., 3,450,158.
Alco Products, Inc.: *See—*
Tromel, Frederic C., 3,465,651.
Alco Standard Corporation: *See—*
Bornor, June Richard, 3,447,788.
Bornor, June Richard, 3,456,935.
Seelandt, Karl H.; and Twine, Charles J., 3,421,747.
Seelandt, Karl H., 3,438,618.
Thorburn, Donald H., 3,443,799.
Twine, Charles J., 3,425,675.
Alco Valve Company: *See—*
Schnittker, William E., 3,444,895.
Alcock, Derrick N.: *See—*
Smith, Forest D.; and Alcock, Derrick N.,3,463,998.
Alcon Metal Products, Inc.: *See—*
De Vito, Albert P., 3,426,318.
De Vito, Charles P., 3,431,541.
Alcorn Combustion Company: *See—*
von Wiesenthal, Peter, 3,469,946.
Alcorn, George B.; and Edmonsond, Frank D., to Georgia-Pacific Corporation, mesne. Drilling mud and product therefor. 3,438,895, 4-15-69, Cl. 252-8.5
Ald, Inc.: *See—*
Oliver, Winfred Allen, Jr., 3,455,232.
Aldeborgh, David H., to Standard Gage Company, Inc. Combined crystal and bezel ring for dial indicators. 3,439,543, 4-22-69, Cl. 73-431.
Alden, Thomas H.; and Livingston, James D., to General Electric Company. Type II superconductors containing magnetic particles. 3,448,062, 6-3-69, Cl. 252-513.
Alder, Robert Lee, to Jackson, Byron, Inc. Pendulum release system for signalling drift indicator. 3,457,654, 7-29-69, Cl. 33-205.
Alder, Robert Lee, to Jackson, Byron, Inc. Drift indicator knob vibration limiting means. 3,464,120, 9-2-69, Cl. 33-205.
Alder, Robert L., to Jackson, Byron, Inc. Signalling orientation indicator. 3,431,654, 3-11-69, Cl. 33-205.
Alder, Robert L., to Jackson, Byron, Inc. Centrifugally controlled signalling drift apparatus. 3,440,730, 4-29-69, Cl. 33-205.
Alder, Robert L., to Jackson, Byron, Inc. Signalling drift indicator with fluid by-pass. 3,466,754, 9-16-69, Cl. 33-205.
Alder, Robert L., to Jackson, Byron, Inc. Mainspring force transfer means for signalling drift indicator. 3,466,755, 9-16-69, Cl. 33-205.
Alder, Robert L., to Jackson, Byron, Inc. Signalling drift indicator with knob extension. 3,470,620, 10-7-69, Cl. 33-205.
Alder, Robert Oscar; Baudet, Roger Jean Francois; Baudier, Claude Paul; and Gasset, Michelle Marcelle, to Societe Nationale d88Etude et de Construction de Moteurs d'Aviation. Thermal protection arrangement and element therefor. 3,430,405, 3-4-69, Cl. 52-573.
Alderfer, Sterling, Company: *See—*
Alderfer, Sterling W., 3,427,213.
Alderfer, Sterling W., to Alderfer, Sterling, Company. Method for producing molded tires. 3,427,213, 2-11-69, Cl. 156-129.
Alderman, Orba O., to Melpar, Inc. Multiple frequency tuning fork filter. 3,464,032, 8-26-69, Cl. 333-6.
Alders, Lucas; and Ridderikhoff, Werner, to Shell Oil Company. Separation process. 3,449,462, 6-10-69, Cl. 260-674.
Alderton, Gordon, to United States of America, Agriculture. Process for sterilizing foods and other materials. 3,454,406, 7-8-69, Cl. 99-215.
Aldinger, Paul A.: *See—*
Leidy, Lester R., Jr.; and Aldinger, Paul A.,3,441,945.
Aldous, David John: *See—*
Stevens, Allan Ernest; Hill, William G.; and Aldous, David John,3,461,269.

Aldred, Derek Harry; and Edington, Robert Alexander, to Imperial Chemical Industries Limited. Adhesive compositions comprising the reaction product of a substituted phenol and a trioxohexahydro-s-triazine. 3,476,701, 11-4-69, Cl. 260-29.3

Aldrian, Adolf: *See*—
Grasenick, Fritz; Geymayer, Wolfgang; and Aldrian, Adolf,3,462,969.

Aldrich Chemical Company, Inc.: *See*—
Biel, John H.; and Hopps, Harvey B., 3,426,036.
Biel, John H.; and Graeve, Rolf E., 3,426,037.
Biel, John H.; and Hopps, Harvey B., 3,462,442.
Biel, John H.; and Warawa, Edward J., 3,471,522.
Biel, John H., 3,476,762.
Biel, John H.; Li, Jorge P.; and Stein, Robert George, 3,484,446.

Aldrich Chemical Company, Inc., The: *See*—
Hopps, Harvey B., 3,452,030.

Aldrich, Donald D.; and Hilbert, Richard G., to Leesona Corporation. Yarn handling apparatus. 3,484,032, 12-16-69, Cl. 226-97.

Aldrich, Douglas H.; Bombard, Richard F.; Gibbs, Doyle C.; and Orrange, Robert J., to International Business Machines Corporation. Object tracking and imaging system having error signal duration proportional to off-center distance. 3,448,271, 6-3-69, Cl. 250-203.

Aldrich, F William; and Deane, Theodore E., to Bendix Corporation, The. Modified organic base friction material. 3,434,998, 3-25-69, Cl. 260-38.

Aldrich, Julius C.: *See*—
Savage, Albert B.; and Aldrich, Julius C.,3,468,685.

Aldrich, Merrill B.; and Wilder, Robert H. Automatic tube cleaner and catalyst injector. 3,450,104, 6-17-69, Cl. 122-391.

Aldrich, Paul E., du Pont de Nemours, E. I., and Company. 5-Aryloxatricyclo [3.2.2.0^{2,4}] nonan-1-YL urethanes. 3,428,643, 2-18-69, Cl. 260-295.

Aldrich, Paul H., to Hercules Incorporated. Process of forming paper containing additaments and polyamide-epichlorohydrin resin. 3,483,077, 12-9-69, Cl. 162-158.

Aldrich, Richard W.; and Holonyak, Nick, Jr., to General Electric Company. Five layer and junction bridging terminal switching device. 3,476,993, 11-4-69, Cl. 317-235.

Aldridge, Charles A., to International Telephone and Telegraph Corporation. Apparatus for producing projection slides. 3,446,124, 5-27-69, Cl. 95-1.

Aldridge, Clyde L.: *See*—
Bearden, Roby, Jr; and Aldridge, Clyde L.,3,427,293.
Cull, Neville Leverne; and Aldridge, Clyde Lee,3,454,649.

Aldridge, Clyde L., to Esso Research and Engineering Company. Process for desulfurizing vacuum distilled fractions. 3,440,164, 4-22-69, Cl. 208-218.

Aldridge, Clyde L., to Esso Research and Engineering Company. Desulfurization process employing a complex of metal of group I A, III B and the lanthanide series. 3,442,797, 5-6-69, Cl. 208-243.

Aldrin, Henry Wilhelm; and Kindrot, Erik Birger, to Aktiebolaget Bofors. Launching device for rockets. 3,461,773, 8-19-69, Cl. 89-1.805

Alea, John F. Frankfurter slitter. 3,465,802, 9-9-69, Cl. 146-203.

Alecsandrescu, Constantin-Jean: *See*—
Belousov, Vitalie; Alecsandrescu, Constantin-Jean; Zmau, Gheorghe; and Stan, Mihaita,3,448,545.

Aleksa, Peter: *See*—
Glass, Marvin I.; Licitis, Gunars; and Aleksa, Peter,3,461,604.

Alen, Paul R.: *See*—
Chapin, Keith K.; and Alen, Paul R.,3,470,847.

Alentieva, Olga Anatolievna: *See*—
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.

Alert Stamping and Mfg. Co., Inc.: *See*—
Blanch, Charles H.; and Olzak, Henry F., 3,432,623.
Blanch, Charles H.; and Olzak, Henry F., 3,450,369.

Aleshin, William N. Adjustment for gas burners. 3,462,084, 8-19-69, Cl. 239-431.

Aleshkina, Yanina Adolfovna: *See*—
Ilinskaya, Tamara Nikolaevna; Kuzovkov, Alexandr Dmitrievich; Vichkanova, Serafima Alexandrovna; Rubinchik, Mira Abramovna; Tolstykh, Ljudmila Petrovna; and Aleshkina, Yanina Adolfovna,3,464,975.

Alesi, John, Jr., to Formex Manufacturing, Inc. Conduit spacer apparatus. 3,464,661, 9-2-69, Cl. 248-68.

Alesi, Pierre Andre: *See*—
Logerot, Rene Paul; and Alesi, Pierre Andre,3,439,504.

Aleson, Robert N.: *See*—
Duncan, Golda A.; and Aleson, Robert N.,3,468,546.

Aleson, Robert N., to Lorraine Industries, Inc., mesne. Diaphragm and sound amplifier. 3,454,281, 7-8-69, Cl. 274-1.

Alessandro, Frank J.: *See*—
Garrett, Lane S.; Bergey, John M. K.; Greenberg, Stuart G.; and Alessandro, Frank J.,3,469,084.

Alessi, Patrick A. Color spectrum analyzer. 3,421,821, 1-14-69, Cl. 356-186.

Alessio, Eugene. Light bulb socket adapter. 3,452,215, 6-24-69, Cl. 307-146.

Alexander, Alvis H.; Duplantis, John C.; and Strong, George T., to Otis Engineering Corporation. Well tools. 3,420,305, 1-7-69, Cl. 166-114.

Alexander, Ben A., to Hughes Aircraft Company. Current switching charging control circuit for a pulse forming network. 3,473,049, 10-14-69, Cl. 307-252.

Alexander, Bradley B., to Hercules Incorporated. Pressure sensitive adhesive tape. 3,445,263, 5-20-69, Cl. 117-47.

Alexander, Colin Hugh. Student-teach-each-other device. 3,456,364, 7-22-69, Cl. 35-31.

Alexander, Donald C., to International Telephone and Telegraph Corporation. Self-supporting coaxial cable. 3,429,984, 2-25-69, Cl. 174-115.

Alexander, Doyle L.: *See*—
Peters, Donald L.; and Alexander, Doyle L.,3,424,829.

Alexander, Emmett L.; and Smith, Hugh D., to Westinghouse Air Brake Company. Portable rotary drilling pipe handling system. 3,464,507, 9-2-69, Cl. 175-85.

Alexander, Ernest John: *See*—
Aceto, Mario D.; Harris, Louis C.; Lands, Alonzo M.; and Alexander, Ernest John,3,485,873.

Alexander, Frank A., Jr., to Morgan Construction Company. Method of reheating a partially cooled continuously cast slab. 3,451,664, 6-24-69, Cl. 263-52.

Alexander, Frank C., Jr., to FMC Corporation. Method of making shaped apertures by using focused pattern of ultrahigh frequency sound waves. 3,451,296, 6-24-69, Cl. 83-13.

Alexander, Fred C., to Universal Rundle Corporation. Method and means for casting syphon-jet type toilet bowls. 3,461,194, 8-12-69, Cl. 264-86.

Alexander, George, Printing Co., Inc.: *See*—
Devejian, Kevork, 3,443,738.

Alexander, Gordon L., to Warwick Electonics Inc. Tab interlock. 3,446,090, 5-27-69, Cl. 74-483.

Alexander, Granison T., Jr., to Gem Oil Tool Company, Inc. Adjustable positive choke. 3,480,037, 11-25-69, Cl. 137-329.06

Alexander, Granison T., Jr., to Gem Oil Tool Company, Inc. Casing sealing device. 3,486,758, 12-30-69, Cl. 277-59.

Alexander, Jack F.: *See*—
Hane, Walter E.; and Alexander, Jack F.,3,440,540.

Alexander, James W., to Phillips Petroleum Company. Blending method and apparatus. 3,482,587, 12-9-69, Cl. 137-7.

Alexander, John Audley; and Shaver, Robert G. High-strength, whisker-reinforced metallic monofilament. 3,455,662, 7-15-69, Cl. 29-191.4

Alexander, John D.; Dew, John N.; and Martin, William L., to Continental Oil Company. Rapid breakthrough in situ combustion process. 3,422,891, 1-21-69, Cl. 166-11.

Alexander, John F. Extendible hand railing. 3,463,457, 8-26-69, Cl. 256-59.

Alexander, John Henry: *See*—
Drake, Cyril Francis; Scanlan, Ian Francis; and Alexander, John Henry,3,440,588.

Alexander Manufacturing Co.: *See*—
McKay, William R., 3,455,399.

Alexander Manufacturing Company: *See*—
McKay, William R., 3,439,750.
McKay, William R., 3,461,972.

Alexander, Max H.; and Merritt, Bernard J., to United States of America, Army. Deflection limited bearing. 3,445,146, 5-20-69, Cl. 308-35.

Alexander, Michael J.: *See*—
Roberts, John R.; and Alexander, Michael J.,3,469,802.

Alexander, Nelson E., to United States of America, Army. Eddy current test apparatus utilizing a movable coil coupled to a piezoelectric element. 3,432,748, 3-11-69, Cl. 324-40.

Alexander, Norman P.: *See*—
Schilb, William A.; and Alexander, Norman P.,3,449,680.

Alexander, Rayburn G. Self-locking connection between rigid members and method of making same. 3,485,520, 12-23-69, Cl. 287-126.

Alexander, Rex L., to Harsco Corporation. Rail fastener. 3,436,018, 4-1-69, Cl. 238-349.

Alexander, Richard L.: *See*—
Anspon, Harry D.; and Alexander, Richard L.,3,427,296.

Alexander, Richard L.; Anspon, Harry D.; and Brown, Francis E., to Gulf Research & Development Company. Pocesses for preparing ethylene copolymers. 3,466,265, 9-9-69, Cl. 260-78.5

Alexander, Robert R., to Kendall Company, The. Textured nonwoven fabrics. 3,459,592, 8-5-69, Cl. 117-140.

Alexander, Roy P.; and Schroeder, Hansjuergen A., to Olin Mathieson Chemical Corporation. Alkoxy derivatives of phosphino-m-carboranes. 3,444,272, 5-13-69, Cl. 260-922.

Alexander, Samuel S.: *See*—
Sohn, Bernard I.; Eisenmann, John L.; and Alexander, Samuel S.,3,480,495.

Alexander, Stephen H.: *See*—
Biles, James R.; Brennan, Wendell E.; Alexander, Stephen H.; and Hardy, Edgar E.,3,470,016.

Alexander, Thomas William, to Bliss, E. W., Company. Hydraulic locking cylinders. 3,456,478, 7-22-69, Cl. 72-351.

Alexander, Thomas W.; Malolepsy, Richard G.; and Jakso, Sandor, to Bliss, E. W., Company. Multiple overload press protection device and adjustable press tonnage device. 3,481,171, 12-2-69, Cl. 72-20.

Alexander, Warren A., to Esso Production Research Company. Filtering system. 3,439,155, 4-15-69, Cl. 235-181.

Alexander, Wayne D., to Allied Chemical Corporation. Spliced cord. 3,447,309, 6-3-69, Cl. 57-142.

Alexander Wilhelm Stoeckicht: *See*—
Barwig, Hans A.; and Heidrich, Günther R., 3,434,374.

Alexander, William E.; and Boggs, Bernard C., to United States of America, Air Force. Low temperature liquid level indicator. 3,465,315, 9-2-69, Cl. 340-244.

Alexander, William J. Hand truck with extendable body. 3,443,821, 5-13-69, Cl. 280-34.

Alexander, William J.; Murphy, Charles F.; and McEniry, Thomas E., Jr., to ITT Rayonier Incorporated. Neutralizing hydroxyalkyl cellulose. 3,451,998, 6-24-69, Cl. 260-231.

Alexander, William O. Process for restoration of burned out hermetic refrigeration system. 3,443,392, 5-13-69, Cl. 62-77.

Alexandrou, George A. Machine for applying ribbon. 3,472,129, 10-14-69, Cl. 93-1.

Alexandrov, Evgeny Vsevolodovich, to Institut Gornogo Dela imeni A.A. Skochinskogo. Power percussion tool. 3,439,755, 4-22-69, Cl. 173-119.

Alexandrovich, George; and Plunkett, Donald J., to Fairchild Recording Equipment Corporation. Gain control device for high fidelity audio systems. 3,436,674, 4-1-69, Cl. 330-59.

Alexandrowicz, Alvin W.: *See*—
Houston, David R.; Howes, Benjamin T.; Warrick, James E.; and Alexandrowicz, Alvin W.,3,477,306.

Alexeff, Alexander V., to Alexeff-Snyder Enterprises. Self-locking chuck for roll shafts. 3,480,225, 11-25-69, Cl. 242-68.4

Alexeff, Alexander V.; and Snyder, Harvey, to Alexeff-Snyder Enterprises, Inc. Combination web steering and guiding apparatus. 3,467,292, 9-16-69, Cl. 226-19.

Alexeff-Snyder Enterprises: *See*—
Alexeff, Alexander V., 3,480,225.

Alexeff-Snyder Enterprises, Inc.: *See*—
Alexeff, Alexander V.; and Snyder, Harvey, 3,467,292.

Alfa-Laval AB: *See*—
Andreae, Hans Georg, 3,456,779.
Dahlberg, Bengt Ingmar, 3,437,267.
Eriksson, John Thorbjorn; and Moller, Birger Torsten Arne, 3,447,742.
Falkenblad, Nils Tore; and Sjoholm, Claes Bertil, 3,433,454.
Hilber, Gunter Siegfried, 3,456,452.
Janson, Stig; and Janson, Ulf Stig, 3,456,619.
Kjellgren, Ove Allan V.; and Nilson, Carl-Goran, 3,441,204.
Murkes, Jakob; and Nilson, Carl-Goran, 3,438,571.
Nilson, Carl-Goran, 3,445,061.
Nilsson, Vilgot Raymond, 3,443,577.
Nilsson, Vilgot Raymond, 3,443,691.
Nordegren, Sven-Ake, 3,448,756.
Palm, Bengt Arne, 3,451,471.
Sciaux, Jean, 3,430,690.
Skoglosa, Nils H., 3,426,731.
Thoren, Georg M. I.; and Lundahl, Lennart V. S., 3,476,397.
Thylefors, Henric Wilhelm, 3,468,475.
Thylefors, Henric Wilhelm, 3,482,771.
Wennerberg, Fritz J., 3,438,435.
Wennerberg, Fritz Johan; and Gullaksen, Jarl Eilif, 3,425,083.

Alfandari, Roger S.; and Daveau, Bernard J., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Armoured structure antenna. 3,448,455, 6-3-69, Cl. 343-756.

Alfandari, Roger; and Daveau, Bernard, to Compagnie Francaise Thomson-Houston-Hotchkiss- Brandt. Pulse radar for determining angles of elevation. 3,448,450, 6-3-69, Cl. 343-16.

Alferieff, Nicholas. Man to machine communication keyboard device. 3,428,747, 2-18-69, Cl. 178-17.

Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich. Process for polymerizing butadiene in the presence of reaction products of π-allylic complexes of transition metal and organic electron acceptors. 3,468,866, 9-23-69, Cl. 260-94.3

Alfes, John A.; Redding, Harry L.; and Roller, Albert E., to General Motors Corporation. Wheel cover. 3,425,747, 2-4-69, Cl. 301-37.

Alfie, Conrad L. Scaffoladder, decorator model. 3,446,310, 5-27-69, Cl. 182-156.

Alfie, Conrad L. Scaffoladder, industrial model. 3,446,311, 5-27-69, Cl. 182-156.

Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Plunger actuated distributor for pneumatic braking systems in vehicles. 3,463,557, 8-26-69, Cl. 303-52.

Alford, Andrew: *See*—
Watts, Chester B., Jr., 3,480,886.

Alford, Andrew: *See*—
Leach, Harold H.; and Alford, Andrew,3,467,919.

Alford, Andrew. Signal transmission comparison with hybrid combining means. 3,474,336, 10-21-69, Cl. 324-58.

Alford, Charles H.: *See*—
Ransil, Raymond J.; Lipanovich, Marko I.; and Alford, Charles H.,3,457,541.

Alford, Harvey E.; and Veatch, Franklin, to Emerson & Cuming, Inc., mesne. Microsphere glass agglomerates and method for making them. 3,458,332, 7-29-69, Cl. 106-52.

Alford, Harvey R.: *See*—
Niedrach, Leonard W.; and Alford, Harvey R.,3,432,355.

Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr., to Texas Instruments, Incorporated. Test system for automatically making static and dynamic tests on an electronic device. 3,423,677, 1-21-69, Cl. 324-73.

Alford, Lynn O., Jr., to Wagner Research Corporation, mesne,. Method and apparatus for folding sheets. 3,429,568, 2-25-69, Cl. 270-69.

Alford, Roscoe R., to Phillips Petroleum Company. Pressure control in a carbon black reactor. 3,476,512, 11-4-69, Cl. 23-209.4

Alfred Electronics: *See*—
Kovalevski, Nicholas, 3,464,029.
Russell, Thomas J., 3,423,702.
Russell, Thomas J., 3,453,564.

Alfred Teves G.m.b.H.: *See*—
Oberthur, Heinrich, 3,442,557.

Alfred Teves Maschinen- und Armaturenfabrik K. G.: *See*—
Ruff, Wolfram; and Boucher, Heinz, 3,421,986.

Alfredeen, A., AB Ingenjorsfirma: *See*—
Zausznica, Adam, 3,472,061.

Alfs, Helmut: *See*—
List, Ferdinand; and Alfs, Helmut,3,467,720.

Alfs, Hugo: *See*—
Mueller, Walter; Alfs, Hugo; and von der Lippe, Robert,3,433,529.

Alfsen OG Gunderson A/S: *See*—
Gunderson, Olaf August, 3,456,361.

Algemene Kunstzijde Unie, N. V.: *See*—
Tono, Pietro, 3,449,059.

Algemene Kunstzijde Unie, N.V.: *See*—
Duiser, Johannes Aart; and Ricke, Johannes Cornelis, 3,476,849.
Plomp, Hermanus, 3,439,381.
Sieders, Rene; and Taal, Leo, 3,484,277.
Van Lohuizen, Otto E.; Paulusma, Pieter; and Van Kinschot, Gaspard L. F., 3,457,343.
Westmijze, Herman; and Raaben, Dirk J., 3,486,400.

Algeo, Jerry A., to North American Rockwell Corporation. Frequency-controlled scanning monopulse antenna. 3,434,139, 3-18-69, Cl. 343-778.

Alger, Robert P.; and Dewan, John T., to Schlumberger Technology Corporation. Combined sidewall neutron porosity gamma-gamma tool. 3,453,433, 7-1-69, Cl. 250-83.3

Alghisi, Aldo. Lifting device. 3,429,286, 2-25-69, Cl. 114-52.

Algoship International Limited: *See*—
Campbell, George T. R.; and Laskey, Norman V., 3,469,556.
Campbell, George T. R.; and Laskey, Norman V., 3,481,295.

Algra, Halbe: *See*—
Booij, Jan G.; and Algra, Halbe,3,463,292.

Algrain, Andre; and Fabry, Gerard, to Glaverbel S.A. Multi-pane glazing unit. 3,460,303, 8-12-69, Cl. 52-314.

Algraphy Limited: *See*—
Smith, Frank E., 3,454,400.

Alheritiere, Louis: *See*—
Biarnais, Paul; Alheritiere, Louis; Gobron, Georges; Mercier, Jules; Meunier, Gaston; and Lemaistre, Rene,3,483,151.

Aliberti, Vincent A., to Monsanto Company. Process of suspension polymerization. 3,444,271, 5-13-69, Cl. 260-878.

Aliberti, Vincent A.; and Nemphos, Speros P., to Monsanto Company. Process of suspension polymerization utilizing synergistic suspension system. 3,444,270, 5-13-69, Cl. 260-878.

Aliberti, Vincent A.: *See*—
Monaghan, Leo J.; Aliberti, Vincent A.; and Sullivan, Daniel M.,3,425,979.

Alicot, Marie Josephe Jeanne: *See*—
Sureau, Robert Frederic Michel; and Alicot, Marie Josephe Jeanne,3,459,489.

Aliev, Nagab Safarovich; Kasimova, Adilya Khanum Panakh-Kyzy; and Ter-Sarkisov, Beniamin Georgievich. Method of producing diolefin hydrocarbons. 3,453,344, 7-1-69, Cl. 260-680.

Alifano, Arthur W. Pitch changing means for pedal steel guitars. 3,422,716, 121-69, Cl. 84-312.
Aliff, Rufus G., Jr.; Herndon, Carl Douglas; and Miller, Thomas Dalton, to Double Envelope Corporation. Two-way mailer envelope. 3,472,444, 10-14-69, Cl. 229-70.
Aliff, Rufus G., Jr.; and Miller, Thomas D., to Double Envelope Corporation. Compartment envelope. 3,482,764, 12-9-69, Cl. 229-72.
Alig, Robert L.; and Rappaport, George, to General Motors Corporation. Breathable polyvinyl chloride material and method of making same. 3,446,693, 5-27-69, Cl. 161-160.
Alimanestiano, Constantin. Portable conveyor. 3,446,304, 5-27-69, Cl. 180-9.24
Aliment, Lindy; Aliment, Randy Jarl; and Phillips, Manio Lido. Combination cushion storage arrangement and folding table for vehicles. 3,476,432, 11-4-69, Cl. 296-23.
Aliment, Randy Jarl: *See*—
Aliment, Lindy; Aliment, Randy Jarl; and Phillips, Manio Lido,3,476,432.
Alix, Joe F., to Continental Oil Company. Apparatus for prevention of edge bead on curtain coated substrates. 3,459,153, 8-5-69, Cl. 118-102.
Alix, Joe F.: *See*—
Kresse, Herman J.; and Alix, Joe F.,3,462,290.
Aljen Corporation: *See*—
Fall, John F., 3,442,500.
Alkaline Batteries Limited: *See*—
Field, Braham Rowley, 3,455,739.
Alkar Engineering Corporation: *See*—
Moskal, Le Roy G., 3,440,950.
Alkire, William B.; and Wiley, Robert B., to Polizzi, Michael S. Carwash system. 3,421,526, 1-14-69, Cl. 134-109.
Alkirk, Inc.: *See*—
Lawrence, James C., 3,437,380.
Lawrence, James Clifton; and Hamilton, William Hauth, 3,485,309.
Alkon Products Corporation: *See*—
Aslan, Wilfred, 3,421,547.
Aslan, Wilfred, 3,441,249.
Alksnis, Arnold Fricevich; and Surna, Janis Aleksandrovich. Method for purifying 6-(and 7-) carboxy-2- methylol-1,4-benzodioxane. 3,468,910, 9-23-69, Cl. 260-340.3
All American Engineering Company: *See*—
Carnevale, Umberto A., 3,443,374.
Cotton, Robert B., 3,467,347.
Walsh, Robert R., 3,426,183.
All Plastics Molding Incorporated: *See*—
Elliott, Lynn H., 3,471,658.
All Tech Industries, Inc.: *See*—
Milu, Charles, 3,463,488.
All-State Welding Alloys Co., Inc.: *See*—
Nast, Thomas D.; and Wooldridge, Richard G., 3,445,285.
All-Steel Equipment, Inc.: *See*—
Swanquist, Wesley W.; and Weber, Wesley A., 3,448,952.
Swanquist, Wesley W., 3,474,994.
Swanquist, Wesley William; and Weber, Wesley A., 3,448,884.
Allais, Andre, to Roussel-UCLAF. 4 (2'Beta-pyridyl methyloxycarbonyl phenylamino) chloro quinolines. 3,463,780, 8-26-69, Cl. 260-287.
Allais, Andre, to Roussel-UCLAF. 2-Methyl or phenyl-7-or 8-chloroquinolines. 3,479,360, 11-18-69, Cl. 260-286.
Allais, Andre; and Girault, Pierre, to Roussel-UCLAF. a-Monoglyceride of 4-(2'carboxyphenylamino-8- chloro-quinoline. 3,445,469, 5-20-69, Cl. 260-287.
Allais, Andre; and Girault, Pierre, to Roussel-UCLAF. 4-(8'-Carboxyoctyl)-1,3-dithiolanes. 3,445,480, 5-20-69, Cl. 260-327.
Allais, Andre; and Girault, Pierre, to Roussel-Uclaf. 4-(2'-Tetrahydrofurfuryloxy carbonyl)- phenylamino-chloro-quinolines. 3,449,347, 6-10-69, Cl. 260-287.
Allais, Philippe, to Compagnie du Filage des Metaux et des Joints Curty (Cefilac). Hot extrusion of metals and lubricant therefor. 3,485,753, 12-23-69, Cl. 252-30.
Allan, Adrian R., Jr., to Flanders Filters Incorporated. Filter bank assembly. 3,486,311, 12-30-69, Cl. 55-355.
Allan, Barry D., to United States of America, Army. Hypergolic method for igniting high energy difluoroamino compounds. 3,447,323, 6-3-69, Cl. 60-205.
Allan, Donald R.: *See*—
Foreman, Ralph S.; Switzer, Ronald E.; Spiller, Kenneth J.; and Allan, Donald R.,3,427,433.
Allan, Donald R., to Raychem Corporation. Automatic solder sleeve fabricating machine. 3,447,219, 6-3-69, Cl. 29-33.
Allan, Earl E.: *See*—
Haydu, Andrew G.; and Allan, Earl E.,3,447,640.
Allan, George G., to Weyerhaeuser Company. Epoxy resin hardeners derived from aqueous alkali-extracted bark phenolic acids. 3,472,797, 10-14-69, Cl. 260-2.
Allan, George Graham, to Weyerhaeuser Company. Reaction products of lignin and bark extracts and process for same. 3,470,148, 9-30-69, Cl. 260-124.
Allan, George Graham, to Weyerhaeuser Company. Hydroxyesters of bark phenolic acids. 3,476,795, 11-4-69, Cl. 260-473.5
Allan, Stewart: *See*—
Miller, Alfred J.; Hinschlager, Rudolf F.; Allan, Stewart; and Weidner, William C.,3,462,135.
Allan, William B.: *See*—
Davy, John R.; Ballantine, John M.; and Allan, William B.,3,432,668.
Allard, Andre: *See*—
Musse, Jean-Pierre; and Allard, Andre,3,456,760.
Allard, Eugene R. Pressure release valve. 3,421,530, 1-14-69, Cl. 137-14.
Allard, Harrie Martin; and Hoeschel, Helmut Gerhard, to Improved Machinery Inc. Two-stage clamping machine. 3,465,387, 9-9-69, Cl. 18-30.
Allard, Robert S.: *See*—
Habib, David P.; Allard, Robert S.; and Zabik, Eugene J.,3,479,183.
Allcock, Alastair William Rodney, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty!s Government of the. Foreign body guards. 3,426,981, 2-11-69, Cl. 244-1.
Allcock, Alastair William Rodney, to Power Jets (Research & Development) Limited. Flap systems for aircraft. 3,447,763, 6-3-69, Cl. 244-42.
Allcock, Alastair William Rodney, to Power Jets (Research and Development) Limited. Apparatus for rapidly diverting thrust produced by a jet engine. 3,455,111, 7-15-69, Cl. 60-226.
Allday, Reece: *See*—
Kubert, Ervin A.; and Allday, Reece,3,463,167.
Alldritt, Donald H.; and Beam, Theodore E. Meter reading means and method. 3,478,342, 11-11-69, Cl. 340-194.
Alleaume, Jean, to Technigaz. Static bearing connecting device or the like and its various applications. 3,456,911, 7-22-69, Cl. 248-1.
Alleaume, Jean, to Technigaz. Wall corner construction. 3,471,983, 10-14-69, Cl. 52-276.
Alleaume, Jean, to Technigaz. Method and apparatus for guiding a torch in lap welding. 3,479,484, 11-18-69, Cl. 219-125.
Alleaume, Jean, to Technigaz. Devices constituting corrugated sheet elements or plates and their various applications. 3,485,596, 12-23-69, Cl. 29-183.
Alleavitch, Jack, to Du Pont de Nemours, E. I., and Company. Process for preparing delustered polypivalolactone. 3,450,664, 6-17-69, Cl. 260-37.
Allebach, Gene E.: *See*—
Grombka, Walter J.; and Allebach, Gene E.,3,422,657.
Allegheny Ludlum Steel Corporation: *See*—
Ames, Stuart Leslie; and Bitler, William R., 3,423,253.
Ardito, Victor P.; Bishop, Harry L.; and Woodcock, Ray E., 3,432,288.
Bartek, Raymond W., 3,467,549.
Dupuis, Hubert, 3,461,751.
Ferree, Joseph A., Jr., 3,460,939.
Harbaugh, Samuel S., 3,432,604.
Harbaugh, Samuel S., 3,470,538.
Helgert, Harold L.; and Conner, Jesse R., Jr., 3,437,532.
Jackson, Harold S., 3,435,121.
Lajoie, Peter A.; and Harbaugh, Samuel S., 3,427,562.
McCune, Harry E., III, 3,437,477.
Rebhun, Charles F.; and Roessing, Keith W., 3,426,437.
Richel, John C., 3,426,634.
Sanders, Joseph A., 3,422,725.
Schwennesen, Donald O., 3,456,535.
Shupe, Kay M., 3,477,682.
Snow, Karl S., 3,469,968.
Spurr, Eugene V.; Walker, Robert R.; and Steiniger, George W., 3,469,425.
Steiniger, George W., 3,466,921.
Vogel, Daniel H., Sr.; and Theriault, Gerald C., 3,447,403.
Zaremski, Donald R., 3,484,350.
Allegheny Plastics, Inc.: *See*—
Marshall, Robert M.; and Wittebort, Robert W., 3,451,452.
Allegrini, Aldo P.: *See*—
Hecklau, Frederick L.; and Allegrini, Aldo P.,3,433,704.
Allen Aircraft Radio, Inc.: *See*—
White, Edward S.; Krueger, Clement C.; and Rosenthal, Donald S., 3,460,146.
Allen, Alec George, to Associated Electrical Industries Limited. Metal melting or smelting apparatus. 3,474,179, 10-21-69, Cl. 13-29.
Allen, Alec George: *See*—
Howard, John Christie; Howard, John Farquhar; Allen, Alec George; and Neenan, Patrick Anthony,3,435,878.
Allen, Alton K. Knife sharpening machine. 3,484,997, 12-23-69, Cl. 51-80.

Allen and Hanburys Limited: *See—*
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, 3,452,013.
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, 3,466,281.
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, 3,466,282.
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, 3,467,657.
Jack, David; Ritchie, Alexander Crawford; Peel, Mervyn Evan; and Harper, Norman James, 3,458,521.
Ritchie, Alexander Crawford; Cheesman, Dennis George; Garside, Peter; and Waring, Juliet Mary, 3,466,295.

Allen, Arthur C.: *See—*
Linden, Henry R.; Baker, Bernard S.; Meek, John; and Allen, Arthur C.,3,438,759.

Allen, Benjamin F., to General Electric Company. Protective system for gas-filled electric apparatus. 3,445,726, 5-20-69, Cl. 317-14.

Allen, Byron W., Jr. Crate suspension means. 3,486,783, 12-30-69, Cl. 294-74.

Allen, Carey M.: *See—*
McCown, William E.; Maltby, Robert E., Jr.; and Allen, Carey M.,3,479,172.

Allen, Charles F. H.: *See—*
Beavers, Dorothy J.; Wilson, Charles V.; and Allen, Charles F. H.,3,426,029.

Allen, Charles H.: *See—*
Corbett, Herbert O.; Quackenbush, John J.; and Allen, Charles H.,3,471,606.

Allen, Charles M.: *See—*
Athey, Stuart E.; and Allen, Charles M.,3,456,180.

Allen, Clayton H.; and Heine, John C., to Bolt Beranek and Newman Inc. Method of phonograph record fabrication. 3,480,281, 11-25-69, Cl. 274-3.

Allen Clayton H.: *See—*
Jones, Royal V., Jr.; Allen Clayton H.; and Gordon, Colin G.,3,480,283.

Allen, Clifford W., to Westinghouse Air Brake Company. Pressure regulating control valve device. 3,460,576, 8-12-69, Cl. 137-627.5

Allen, Colin James. Conveyor apparatus. 3,424,104, 1-28-69, Cl. 104-172.

Allen, Cyril Joseph; Bliss, John Llewelyn; and Millar, Ian David Balfour, to Marconi Company Limited, The, and Standard Telephones & Cables Limited. Synchronising of periodic signals. 3,443,024, 5-6-69, Cl. 178-5.2

Allen Davies & Company Limited: *See—*
Harvey, Albert John, 3,425,543.

Allen, Dee D., to U.S. Industries, Inc., mesne. Animal feed drop line control apparatus. 3,460,517, 8-12-69, Cl. 119-56.

Allen, Dee Dexter; and Comber, William R., to U.S. Industries, Inc., mesne. Pit cleaner for animal houses. 3,458,029, 7-29-69, Cl. 198-224.

Allen, Dee Dexter; and George, Robert O., to U.S. Industries, Inc., mesne. Automatic animal feed metering apparatus. 3,456,748, 7-22-69, Cl. 177-92.

Allen, Dennis William: *See—*
Isaacs, Anthony Leonard; and Allen, Dennis William,3,449,677.

Allen, Derek R., to Daimler-Benz Aktiengesellschaft. Stethoscope with binaural spring molded into tubing wall and method of fabricating the same. 3,437,172, 4-8-69, Cl. 181-24.

Allen, Derek R., to Allen Medical Instrument Corporation. Dual stethoscope microphone with switch-tube valve. 3,472,335, 10-14-69, Cl. 181-24.

Allen, Dewey R. Apparatus for cleaning paint roller covers. 3,436,264, 4-1-69, Cl. 134-33.

Allen, Donald J.: *See—*
Hess, Duane C.; and Allen, Donald J.,3,487,138.

Allen, Doreen Elizabeth: *See—*
Stallard, George Hugh; and Allen, Doreen Elizabeth,3,448,995.

Allen, Duff Shederic, Jr.: *See—*
Littell; Ruddy; Smith, James Miller, Jr.; and Allen, Duff Shederic, Jr.,3,454,587.

Allen, Dwight L.; and Grable, Glenn H. Catheter having one-way inflations valve. 3,477,438, 11-11-69, Cl. 128-349.

Allen, Earle E., Jr.: *See—*
Hull, Glenn A.; Allen, Earle E., Jr.; and Parmerter, Stanley M.,3,459,732.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A.,3,426,011.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A.,3,453,257.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A.,3,453,258.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Le Roy, David H.,3,453,259.
Parmerter, Stanley M.; and Allen, Earle E., Jr.,3,453,260.

Allen, Earle F., 1/2 to Macy, Valentine E., Jr. Method and means for moving structures hydraulically. 3,466,686, 9-16-69, Cl. 14-42.

Allen, Edward M.; Dye, Cloyde G.; and Smrdel, Joseph A., to PPG Industries, Inc. Package of compacted material. 3,477,562, 11-11-69, Cl. 206-46.

Allen, Edward Ronald. Apparatus and method for producing sugar solutions. 3,428,487, 2-18-69, Cl. 127-22.

Allen Electric and Equipment Company: *See—*
Frankel, Samuel H., 3,433,511.
Mazurkevics, Anatolijs, 3,437,916.
Mazurkevics, Anatolijs, 3,473,119.
Pilgrim, Ollie P., 3,439,534.
Ukmar, Milosh L.; and Kline, Larry H., 3,453,618.

Allen Electronics, Inc.: *See—*
Boice, Clarence L.; and Allen, Joseph Stevens, 3,476,873.
Christine, William C.; and Pierce, Joseph E., 3,420,407.
Christine, William C.; and Pierce, Joseph E., 3,420,414.

Allen, Frihoff Grant; and Seelbach, Walter C., to Motorola, Inc. Multiple level logic circuitry. 3,446,989, 5-27-69, Cl. 307-208.

Allen, Geoffrey William; and Songhurst, Cecil James, to Alston Tool & Gauge Company Limited, The. Form relieving holder for rotary cutters. 3,456,397, 7-22-69, Cl. 51-225.

Allen, George E. Anchoring device for tying wooden members to brick or masonry walls. 3,471,988, 10-14-69, Cl. 52-714.

Allen, George E.; and Allen, Glenn E., to Allied Chemical Corporation. Beneficiation of fluorspar ores. 3,430,765, 3-4-69, Cl. 209-11.

Allen, George H.: *See—*
Sandow, Kiyoshi; Allen, George H.; and Anderton, Thomas L.,3,461,607.

Allen, George O., Jr., to Ortho Pharmaceutical Corporation. Prevention of littering in animals with dehydroepiandrosterone 3-(2'-tetrahydropyranyl)ether. 3,428,733, 2-18-69, Cl. 424-241.

Allen, George Rodger, Jr.: *See—*
Littell, Ruddy; and Allen, George Rodger, Jr.,3,449,363.

Allen, Gerald L.: *See—*
Litant, Irving; Pratt, Ralph C.; and Allen, Gerald L.,3,475,640.

Allen, Gilbert D.; and Grove, Gene A., to Weyerhaeuser Company. Vented cauls. 3,434,411, 3-25-69, Cl. 100-90.

Allen, Gilbert V., to United States of America, National Aeronautics and Space Administration. Electric welding torch. 3,469,069, 9-23-69, Cl. 219-130.

Allen, Glenn E.: *See—*
Allen, George E.; and Allen, Glenn E.,3,430,765.

Allen, Gordon Y. R. Neutralizing transformers. 3,453,494, 7-1-69, Cl. 317-17.

Allen, Harold K. Dome drive-in theatre. 3,422,581, 1-21-69, Cl. 52-6.

Allen, Harry R.; and Mercier, Alfred C., to Honeywell Inc. Indicator having nonlinear damping. 3,479,594, 11-18-69, Cl. 324-125.

Allen, Harvey G., to Westinghouse Electric Corporation. Hydraulic pump-motor combination. 3,467,015, 9-16-69, Cl. 103-87.

Allen, Henry C., to United States of America, Army. Hydroxymethyl-terminated polymers. 3,440,292, 4-22-69, Cl. 260-633.

Allen, Henry W. Optical fluid sampling device. 3,431,424, 3-4-69, Cl. 250-218.

Allen, Herbert, to Cameron Iron Works, Inc. Lift-turn plug valve. 3,472,271, 10-14-69, Cl. 137-329.05

Allen, Herman Curtis, to Bird & Son, Inc. Handle device. 3,482,867, 12-9-69, Cl. 294-28.

Allen, Holless W. Archery bow with draw force multiplying attachments. 3,486,495, 12-30-69, Cl. 124-24.

Allen, Horace E.; Doermann, Edward L.; and Brooks, Elgin C. Medical examination support device. 3,481,593, 12-2-69, Cl. 269-328.

Allen, Howard B. Geodesic dome structure. 3,439,460, 4-22-69, Cl. 52-81.

Allen Industries, Inc.: *See—*
Goldstone, Edward G.; and Neumann, Hans K., 3,429,728.
Goldstone, Edward G.; Neumann, Hans K.; and Olsen, John A., 3,446,685.

Allen, Irving: *See—*
George, Edward T.; and Allen, Irving,3,453,947.

Allen, James Robert: *See—*
King, Donald Ray; Allen, James Robert; and Wittren, Richard Arthur,3,428,143.

Allen, James S.; and Hirshfield, Edward, to Sylvania Electric Products, Inc. Electronically tunable receiver. 3,435,346, 3-25-69, Cl. 325-423.

Allen, James Terry: *See—*
Kutas, Albert F.; Allen, James Terry; and Jelinek, Jerry G.,3,485,142.

Allen, John Clarence, Jr.: *See—*
Rushing, Karl; and Allen, John Clarence, Jr.,3,468,379.
Rushing, Karl; and Allen, John Clarence, Jr.,3,468,391.

Allen, John D., to Eaton Yale & Towne, Inc. Adjustable, metered, directional flow control arrangement. 3,455,210, 7-15-69, Cl. 91-446.

Allen, John F. Collapsible self-powered vehicle structure. 3,434,558, 3-25-69, Cl. 180-26.

Allen, John Graham: *See—*
Goodings, Eric Paul; and Allen, John Graham,3,448,177.

Allen, John P. C.; Bone, John D.; and Pilia, Frank J., to Union Carbide Corporation. Work-in circuit arc welding apparatus. 3,443,057, 5-6-69, Cl. 219-131.

Allen, John W.: *See*—
Sanders, Wes E.; and Allen, John W.,3,461,818.

Allen, John W., to Stanray Corporation. Roll forming machine for producing cellular core panels. 3,455,135, 7-15-69, Cl. 72-187.

Allen, John W., to Stanray Corporation. Method of forming cellular core member from flat sheet. 3,465,566, 9-9-69, Cl. 72-324.

Allen, John W.; and Hachler, Wesley R., to Stanray Corporation. Apparatus for forming a cellular core panel. 3,459,026, 8-5-69, Cl. 72-324.

Allen, John W.; and Williams, Lucien C., to Stanray Corporation. Vertical corrugated side for gondola car. 3,421,453, 1-14-69, Cl. 105-406.

Allen, Joseph C., to Texaco Inc. Method of hydrocarbon production by secondary recovery using a modified inverted 9-spot well pattern. 3,476,182, 11-4-69, Cl. 166-245.

Allen, Joseph Stevens: *See*—
Boice, Clarence L.; and Allen, Joseph Stevens,3,476,873.

Allen, Kenneth C., to Hobart Manufacturing Company, The. Auomatic printing price scale with photoelectric encoder including range and motion detectors. 3,439,760, 4-22-69, Cl. 177-3.

Allen, Kenneth C., to Hobart Manufacturing Company, The. Weigher with automatic ticket issuing mechanism. 3,461,985, 8-19-69, Cl. 177-7.

Allen, Kenneth C.; and Vauk, Helmut A., to Hobart Manufacturing Company, The. Label dispenser. 3,447,992, 6-3-69, Cl. 156-361.

Allen, Kenneth M.; and Harper, Chester H. V-Trough grader. 3,455,445, 7-15-69, Cl. 209-85.

Allen, Kenneth M.; and Harper, Chester H., to Allen-Harper, Inc. Self-balancing vibrating structures. 3,476,234, 11-4-69, Cl. 198-220.

Allen, layton H., to Bolt Beranek and Newman Inc. Acoustical ear muff and the like. 3,479,669, 11-25-69, Cl. 2-209.

Allen, Linus S., Jr., to Mobil Oil Corporation. Slow neutron detector of americium-243. 3,435,218, 3-25-69, Cl. 250-83.1

Allen, Lloyd R., to National Research Corporation. Tin base alloys. 3,457,067, 7-22-69, Cl. 75-175.

Allen, Lloyd R., to National Research Development Corporation. Co-deposition of boron containing coatings. 3,460,976, 8-12-69, Cl. 117-107.

Allen, Lloyd R., to National Research Corporation. Production of boron carbide flakes. 3,476,525, 11-4-69, Cl. 23-294.

Allen, Lyle: *See*—
Handwerk, Reginald L.; and Allen, Lyle,3,425,841.

Allen, Malcolm H., Jr., to General Electric Company. Electric position sensor with switch locator. 3,473,381, 10-21-69, Cl. 73-313.

Allen, Manton E.: *See*—
Warner, Albert C.; and Allen, Manton E.,3,431,853.

Allen, Maurice B. Automatic feeder for animal cages. 3,468,291, 9-23-69, Cl. 119-51.12

Allen Medical Instrument Corporation: *See*—
Allen, Derek R., 3,472,335.

Allen, Melvin Oland, 24% to Gidden, Joe H. 9% to West Texas State Bank, trustee for Gidden, Howard Eugene, 10% to West Texas State Bank, trustee for Gidden, Maureen Elizabeth, and Gidden, David William. Polyphase system protective relay assembly and calibrating apparatus therefor. 3,480,833, 11-25-69, Cl. 317-22.

Allen, Merrill J., to Indiana University Foundation. Night vision performance tester. 3,469,904, 9-30-69, Cl. 351-36.

Allen, Merton, to General Electric Company. Electrohydraulic process for producing antigens. 3,445,568, 5-20-69, Cl. 424-92.

Allen, Merton; and Deiber, Jack, to General Electric Company. Preparation of carbon particles electrohydraulically. 3,458,417, 7-29-69, Cl. 204-173.

Allen, Michael G.; Errede, Louis A.; and Hannula, Rodney R., to Minnesota Mining and Manufacturing Company. Time-temperature indicator. 3,479,877, 11-25-69, Cl. 73-358.

Allen, Norval F.: *See*—
Steele, Clarence R.; and Allen, Norval F.,3,425,561.

Allen Organ Company: *See*—
Griffith, Errol R., 3,439,568.
Markowitz, Jerome, 3,453,371.

Allen, Paul E., to Woodstream Corporation. Swing seat and support means. 3,462,195, 8-19-69, Cl. 297-452.

Allen, Paul E.: *See*—
Honkonen, Richard A.; Allen, Paul E.; Way, Richard K.; and Larime, Carl M.,3,437,282.
Woolworth, Richard G.; and Allen, Paul,3,438,342.

Allen, Phillip E., to United States of America, Atomic Energy Commission. Wide band inductive coil device. 3,423,710, 1-21-69, Cl. 336-155.

Allen, Ralph H. Fire cartridge. 3,457,860, 7-29-69, Cl. 102-32.

Allen, Raymond W., to General Motors Corporation. Accessory drive. 3,429,192, 2-25-69, Cl. 74-217.

Allen, Richard A. Multipurpose automobile carrier. 3,437,248, 4-8-69, Cl. 224-42.03

Allen, Richard E., to Corning Glass Works. Method of improving roll forming properties of molten materials. 3,440,069, 4-22-69, Cl. 106-53.

Allen, Richard E., to Corning Glass Works. Method of conditioning forming rollers to form glass ceramic. 3,449,100, 6-10-69, Cl. 65-24.

Allen, Richard E., to Corning Glass Works. Method of making capacitors. 3,480,421, 11-25-69, Cl. 65-33.

Allen, Richard E., to Corning Glass Works. Clad channel ribbon forming rolls. 3,486,879, 12-30-69, Cl. 65-253.

Allen, Richard G.; Kurtz, Clark; Mac Sorley, Olin L.; Spencer, Dana R.; and Stetler, Wesley C., to International Business Machines Corporation. Adder, Shifter and logical apparatus. 3,474,239, 10-21-69, Cl. 235-175.

Allen, Richard H., to Well Service Inc. Float valve unit for well pipe. 3,473,609, 10-21-69, Cl. 166-224.

Allen, Richard J., Jr.: *See*—
Morris, Jack; Yuter, Morton Gerald; Rudd, Wallace C.; and Allen, Richard J., Jr.,3,420,976.

Allen, Robert A.: *See*—
Wagner, Charles R.; Shultz, Andrew; Allen, Robert A.; and Friedman, Cecil A.,3,426,058.

Allen, Robert Edward, Jr. Twin unit gun-type dispenser for extrudable material in disposable cartridges. 3,481,510, 12-2-69, Cl. 222-79.

Allen, Robert J.; Novack, Robert Lee; and Petrow, Henry George, to Prototech Company, division of Bolt Beranek and Newman Inc. Process of operating fuel cell including alkali- metal and transition-metal containing electrolyte. 3,471,332, 10-7-69, Cl. 136-86.

Allen, Robert L. Method for breaking the cigarette habit. 3,439,685, 4-22-69, Cl. 131-9.

Allen, Robert M., to United States Steel Corporation. Method of making fine-grained steel. 3,438,822, 4-15-69, Cl. 148-143.

Allen, Roy A.; and Lantz, William L., to Shell Oil Company. Rapid curing fluidized bed coating composition having improved flexibility. 3,477,971, 11-11-69, Cl. 260-18.

Allen, Roy: *See*—
Thompson, Douglas K.; and Allen, Roy,3,473,477.

Allen, Russell B. Auto wash system. 3,450,266, 6-17-69, Cl. 210-167.

Allen, Simon D.; and Snider, Yash R., to Chem Seal Corporation of America. Cloth ballistic penetrating resistance laminate. 3,486,966, 12-30-69, Cl. 161-57.

Allen, Stanley George: *See*—
Lewin, Leonard; Hodgson, Kenneth George; and Allen, Stanley George,3,467,911.

Allen, Thomas Clark; and Koestler, Robert Charles, to Pennsalt Chemicals Corporation. Perfluoroalkyl amide derivatives of polyoxyalkylene carbamates. 3,427,332, 2-11-69, Cl. 260-404.5

Allen, Walter C.; and Taebel, Wilbert A., to National Beryllia Corp. Dense refractory zirconium boride bodies. 3,433,656, 3-18-69, Cl. 106-57.

Allen, Walter E., to United States of America, Navy. Electronic solar cell array simulator. 3,435,328, 3-25-69, Cl. 323-8.

Allen, Walter K., to United States of America, National Aeronautics and Space Administration. Time division multiplex system. 3,430,237, 2-25-69, Cl. 343-7.5

Allen, Walter R., to Simplicity Engineering Company. Combined crushing and attrition apparatus and method. 3,454,230, 7-8-69, Cl. 241-30.

Allen, Wesley M. Bait box. 3,465,467, 9-9-69, Cl. 43-55.

Allen, William A., to Jarke Corporation. Container dumper. 3,462,030, 8-19-69, Cl. 214-317.

Allen, William A.: *See*—
Hart, William E.; Allen, William A.; and Cunningham, Leslie L.,3,434,211.

Allen, William H. Key cutting machine. 3,440,906, 4-29-69, Cl. 76-110.

Allen, William M.: *See*—
Byrd, Joseph L.; and Allen, William M.,3,466,041.
Harrington, Herbert A.; Dickey, John W.; Allen, William M.; Butz, Carl C.; and Campbell, Clarence E.,3,485,230.

Allen, William R. Shuffle skate. 3,484,116, 12-16-69, Cl. 280-11.21

Allen-Bradley Company: *See*—
Huette, Walter F.; Struger, Odo J.; and Brandt, Ivan L., 3,444,437.
Kiffmeyer, William W., 3,460,000.
Moser, Joseph R.; and Struger, Odo J., 3,466,602.
Pearse, James N., 3,435,297.
Reinke, John F.; Schlicke, Heinz M.; and Blomdahl, Floyd A., 3,435,387.
Schmid, Pierre E.; and Nowak, David J., 3,469,080.
Spaude, Robert W., 3,445,802.
Struger, Odo J.; and Moser, Joseph R., 3,478,228.
Walters, Robert E.; and Boysen, Gerd C., 3,430,014.
Zaffrann, Albert A.; Balint, Joseph A.; and Weidmann, Siegfried, 3,423,719.

Allen-Harper, Inc.: *See*—
Allen, Kenneth M.; and Harper, Chester H., 3,476,234.

Allenbaugh, George G., Jr., to Akron Brass Company. Hose compressor. 3,460,797, 8-12-69, Cl. 251-9.

Allenbaugh, James E., Jr.: *See*—
Feeney, Joseph W.; Pojawis, Paul L.; Allenbaugh, James E., Jr.; and Mc Nair, John W., Jr.,3,463,656.

Allender, Forrest R., to Clayg Corporation, The. Rotary engine. 3,435,808, 4-1-69, Cl. 123-13.

Allendorf, Marcel, to Precismeca S.A. Fastening device for troughing roll and conveyor belts having said fastening device. 3,430,755, 3-4-69, Cl. 198-192.
Allendorf, Marcel, to Precismeca S.A. Structure for connecting the ends of a troughing roll assembly. 3,430,756, 3-4-69, Cl. 198-192.
Allentoff, Norman; and Fogler, Henry Harrison, to Eastman Kodak Company. Direct positive silver halide emulsion resistant to kink-marking desensitization. 3,477,852, 11-11-69, Cl. 96-94.
Aller, Edmund R.; and Solt, Paul E., to General American Transporation Corporation. Railway car for transporting pulverulent material. 3,469,888, 9-30-69, Cl. 302-52.
Alles, Francis Peter, to Du Pont de Nemours, E. I., and Company. Photopolymerizable elements with solvent removable protective layers. 3,458,311, 7-29-69, Cl. 96-35.1
Alles, Francis Peter, to Du Pont de Nemours, E. I., and Company. Solvent development of photopolymerized layers. 3,475,171, 10-28-69, Cl. 96-35.1
Alleton, Jean Claude: *See—*
Juillard, Jacques; and Alleton, Jean Claude,3,425,939.
Alletru, Jean, to L'Industrie Electrique de la Seine. Sensitive electromagnetic tripping device of the re-setting type. 3,441,883, 4-29-69, Cl. 335-234.
Alley, Lewis F.: *See—*
Miller, Jack M.; Long, Marshall; and Alley, Lewis F.,3,456,285.
Alley, Ralph D.; and Sheridan, David S., to Brunswick Corporation, mesne. Trocar catheter. 3,459,189, 8-5-69, Cl. 128-347.
Alley, Robert P., to General Electric Company. Ballast apparatus for starting and operating arc lamps. 3,467,886, 9-16-69, Cl. 315-163.
Allgaier, Earl. Dual control vehicle brake system for driver training automobiles. 3,435,703, 4-1-69, Cl. 74-562.5
Allgemeine Elektricitats-Gesellschaft: *See—*
Schierholt, Hans, 3,454,829.
Allgeyer, David F.; and Bourgeois, Joseph F. J., to UMC Industries, Inc. Glass lid for refrigerated merchandising cabinet. 3,440,767, 4-29-69, Cl. 49-404.
Allgood, Hilland Y.; and Lancaster, Fred E., Jr., to Tennessee Valley Authority. Process for the production of highly concentrated phosphoric acid. 3,442,611, 5-6-69, Cl. 23-165.
Alliance Machine Company, The: *See—*
Weiss, Francis C., 3,428,194.
Alliancewall Corporation: *See—*
Salton, Jerome R., 3,453,793.
Allied Carbon and Ribbon Manufacturing Corporation: *See—*
Schladale, Robert F., 3,482,684.
Allied Chemical Corporation: *See—*
Alexander, Wayne D., 3,447,309.
Allen, George E.; and Allen, Glenn E., 3,430,765.
Anderson, Lowell Ray; and Fox, William B., 3,436,424.
Anderson, Norman L., 3,470,200.
Anderson, Norman L.; and Litke, Alvin C., 3,470,201.
Andrs, Jerry Frank; and Elledge, Kermit, 3,470,729.
Anello, Louis G.; and Sweeney, Richard F., 3,467,703.
Anello, Louis G.; Sweeney, Richard F.; and Price, Alson K., 3,471,623.
Anello, Louis G.; and Sweeney, Richard F., 3,480,571.
Apice, Pasquale J., 3,433,854.
Apice, Pasquale J., 3,437,660.
Auvil, Harvey S., 3,438,867.
Banush, Russell S., 3,483,050.
Barton, Oliver A.; and Littell, Walter W., 3,422,063.
Barton, Oliver A.; and Pusztai, Tibor G., 3,422,067.
Barton, Oliver A.; and Eckardt, Carl R., 3,458,350.
Barton, Oliver A.; and Pusztai, Tibor G., 3,464,940.
Barton, Oliver A.; Griffin, William D.; Lund, Richard B.; Vitrone, John; and Oser, Zalik, 3,483,164.
Batchelor, Gordon S., 3,443,928.
Batchelor, Gordon S.; and Hawkins, Edwin F., 3,480,710.
Beckham, Leland J., 3,422,109.
Bell, Charles C.; and Jobin, Alvin H., 3,477,217.
Berch, Julian; and Sookne, Arnold M., 3,475,207.
Block, Seymour S.; and Darley, Merrill M., 3,448,194.
Boardman, Franklin, 3,457,302.
Boggs, Beryl A., 3,438,188.
Boggs, Beryl A., 3,473,420.
Booth, Robert E.; and Degginger, Edward R., 3,424,700.
Bostian, Logan C.; Farrar, Grover L.; and Ulmer, Harry E., 3,456,014.
Bostian, Logan C.; Cawthon, Thomas M.; and Oxenrider, Bryce C., 3,466,260.
Broadley, Robert D., 3,470,101.
Brouwer, Harvard, 3,437,842.
Brownstein, Arthur M.; and Sibilia, John P., 3,465,024.
Brownstein, Arthur M.; and Pascale, John V., 3,465,025.
Brownstein, Arthur M.; and Sibilia, John P., 3,483,242.
Bush, Richard W.; and Marrero, Tomas R., 3,463,767.
Buyalos, Edward J., 3,448,124.
Cain, Audley L., 3,480,612.
Campagna, Philip J., 3,440,193.
Carr, Donald R., 3,471,445.
Cawthon, Thomas M.; Schmitt, George J.; Higbee, Allen F.; Pedersen, Jack R.; and Oswald, Hendrikus J., 3,442,975.
Cheng, Chao-Shing, 3,435,070.
Cheng, Chao Shing, 3,458,558.
Cheng, Chao-Shing; and Boye, Frederick C., 3,487,092.
Chu, Arthur S.; and Parker, Almon S., 3,473,887.
Clark, Glen L.; and Kirby, Robert A., 3,474,900.
Cobbledick, David S., 3,429,855.
Cobbledick, David S., 3,470,121.
Collingwood, George H., 3,438,190.
Collingwood, George H.; Demas, Harry J.; and Bryant, George F., 3,460,336.
Cunningham, William J.; and Woolf, Cyril, 3,433,838.
Cunningham, William J., 3,453,100.
Darley, Merrill M., 3,444,303.
De Voldre, Joseph J.; Baran, Francis R.; and Bahouth, Tayseer G., 3,437,598.
Dear, Robert E. A.; and Gilbert, Everett E., 3,450,773.
Dear, Robert E. A.; and Gilbert, Everett E., 3,459,817.
Dear, Robert E. A.; and Gilbert, Everett E., 3,470,302.
Dear, Robert E. A.; and Gilbert, Everett E., 3,484,528.
Degginger, Edward R.; and Booth, Robert E., 3,442,888.
Dernier, Paul D.; and Frankel, Henry, 3,468,814.
Dickert, Eugene A., 3,471,417.
Dickert, Eugene A.; and Himmler, William A., 3,471,418.
Dien, Chi K., 3,441,536.
Dien, Chi Kang, 3,438,964.
Dien, Chi Kang; and Demler, Walter Robert, 3,446,810.
Dwyer, Frank J.; and Herdlein, Richard J., 3,441,523.
Eck, John C.; and Zegel, William C., 3,420,772.
Eck, John C.; and Zegel, William C., 3,470,677.
Eck, John C.; and Zegel, William C., 3,485,752.
Eck, John Clifford; and Zegel, William C., 3,456,796.
Elliott, George A.; Akin, Jerome E.; and Mac Gregor, Rob R., 3,434,937.
Emery, Ernest W.; and Kirss, Voldemar, 3,462,470.
Evans, Francis W.; and Litt, Morton H., 3,470,256.
Farah, Basil S.; and Gilbert, Everett E., 3,450,822.
Farah, Basil S.; Gilbert, Everett E.; and Veldhuis, Benjamin, 3,462,482.
Figiel, Francis J.; and Muraca, Raffaele F., 3,422,032.
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., 3,470,686.
Formaini, Robert L., 3,477,996.
Fox, William B.; Mac Kenzie, James S.; and Vanderkooi, Nicholas, Jr., 3,428,540.
Freese, Thomas E., 3,457,081.
Fuhrmann, Robert; Sifniades, Stylianos; and Jerolamon, David, 3,458,419.
Fuhrmann, Robert; Sifniades, Stylianos; and Lazar, Emery C., 3,464,905.
Fuller, Richard E., 3,440,034.
Gilbert, Everett E.; and Veldhuis, Benjamin, 3,445,514.
Gilbert, Everett E.; and Veldhuis, Benjamin, 3,445,524.
Gilbert, Everett E.; and Gard, Gary L., 3,475,453.
Gilbert, Everett E.; Oxenrider, Bryce C.; and Schmitt, George J., 3,480,585.
Gilbert, Everett E., 3,481,902.
Gould, Lawrence Peabody, 3,485,578.
Hartford, Winslow H.; and Kelly, Walter R., 3,438,724.
Hartman, Paul F., 3,476,532.
Hayford, Donald Edward, 3,471,429.
Hazelton, Russell F., 3,470,163.
Hennig, Ralph R., 3,421,853.
Hohmann, Frank G.; Matthias, George D.; Tino, Joseph R.; and Wellmann, Gerhard F., 3,461,491.
Howard, Carlton J.; and Port, Eugene B., 3,425,795.
Huggins, Dale K.; and Fox, William B., 3,423,168.
Ingleman, Milton R., 3,483,183.
Joris, George G.; and Miller, Robert H., 3,484,414.
Justice, Ged H.; and Formaini, Richard E., 3,462,256.
Kirss, Voldemar; and Park, Jong C., 3,420,752.
Kolyer, John M.; and Kveglis, Albert A., 3,444,142.
Kolyer, John M.; and Kvlglis, Albert A., 3,478,025.
Kurkowski, Albert Robert; and Carpenter, Robert Edward, 3,462,514.
Lamb, George E. R.; and Prevorsek, Dusan C., 3,457,609.
Largman, Theodore; and Newallis, Peter E., 3,470,296.
Lau, Philip T. S.; and Grillot, Gerald F., 3,453,330.
Laughlin, Kenneth C., 3,462,396.
Lazarus, Stanley D., 3,451,971.
Lazarus, Stanley D.; and Christensen, Poul N., 3,484,410.
Le Noir, Fred W., 3,473,315.
Le Noir, Fred White; and King, Clarence Anderson, 3,438,101.
Levy, Alan J.; and Litt, Morton H., 3,458,456.
Levy, Alan J.; and Litt, Morton H., 3,464,933.
Levy, Alan J.; and Litt, Morton H., 3,483,145.
Lichstein, Bernard M.; and Woolf, Cyril, 3,438,946.
Lichstein, Bernard M.; and Woolf, Cyril, 3,440,285.
Lichstein, Bernard M.; and Woolf, Cyril, 3,472,905.

Lipka, Benjamin, 3,467,658.
Litke, Alvin C., 3,476,500.
Litt, Morton H.; and Evans, Francis W., 3,453,333.
Litt, Morton H.; and Herz, Jack L., 3,470,267.
Litt, Morton H.; Levy, Alan J.; and Bassiri, Taghi G., 3,483,141.
Lloyd, Billy E.; Ungar, Israel S.; and Krumel, Richard R., 3,455,733.
Lombardo, Pasquale, 3,469,010.
Lund, Richard B.; and Vitrone, John, 3,424,795.
Mariani, Thomas L.; and Hirschmann, Robert P., 3,455,841.
Michener, Aubrey W., Jr.; Carlson, Emery J.; and Koo, Raymond H., 3,479,136.
Michener, Aubrey Westlake, Jr.; and Veldhuis, Benjamin, 3,462,474.
Mirabile, Frank A.; and Rabel, Steven T., 3,434,993.
Moore, William P.; and Mac Gregor, Rob Roy, 3,441,375.
Moore, William P.; Sierichs, William C.; and Mac Gregor, Rob Roy, 3,447,901.
Moore, William P.; and MacGregor, Rob Roy, 3,482,933.
Moore, William P., Jr.; and Mosier, Jack W., 3,435,089.
Moore, William P.; Jr.; and MacGregor, Rob R., 3,470,115.
Moore, William Percy; Sierichs, William Cornell; and MacGregor, Rob Roy, 3,481,702.
Morse, Roger J., 3,459,220.
Newallis, Peter E.; and Lombardo, Pasquale, 3,420,919.
Newallis, Peter E.; and Lombardo, Pasquale, 3,442,955.
Newallis, Peter E.; and Rumanowski, Edmund J., 3,444,244.
Newallis, Peter E.; Otto, Julian A.; and Lombardo, Pasquale, 3,445,507.
Newallis, Peter E.; and Rumanowski, Edmund J., 3,467,692.
Newallis, Peter E.; and Cheema, Zafarullah K., 3,469,966.
Newallis, Peter E.; and Spurlock, Langley A., 3,475,452.
Nychka, Henry R.; and Anello, Louis G., 3,435,078.
Oswald, Hendrikus J.; Turi, Edith; and Lund, Richard B., 3,425,987.
Oxenrider, Bryce C.; and Lund, Richard B., 3,438,938.
Pierce, Arleen, 3,487,157.
Pierce, Arleen Cecilia; and Lindo, Neil Adams, 3,420,894.
Pierpont, Roger L.; and Rumanowski, Edmund J., 3,468,656.
Pietrusza, Edward W.; Pedersen, Jack R.; and Piter, Rudolph, 3,438,948.
Pietrusza, Edward W.; and Pinter, Rudolph, 3,445,459.
Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R., 3,448,085.
Pohl, Raymond A., 3,437,608.
Price, Alson K.; and Sweeney, Richard F., 3,427,349.
Reimschuessel, Herbert K.; and Pascale, John V., 3,422,093.
Rosenblatt, Herbert; Mariani, Thomas L.; and Arvidson, Philip R., 3,483,965.
Salaticllo, Peter P.; and Dollman, Stephen C., 3,434,996.
Santimauro, John F.; and Gerson, Herman, 3,483,217.
Schmidt, Lawrence D., 3,432,398.
Schuller, Barry; and Specht, August J., 3,428,585.
Sepkoski, Joseph J.; Trepa, Robert F.; and Degginger, Edward R., 3,464,935.
Seven, Manfred K.; and Bellet, Richard J., 3,465,059.
Shriver, Donald S.; and Bara, Edward J., 3,458,464.
Shultz, Andrew, 3,452,073.
Shultz, Andrew; and Kaplan, Melvin, 3,455,836.
Shultz, Andrew, 3,458,447.
Smith, Addison M.; and Perle, Percy, 3,447,933.
Smith, Charles D.; and Samuels, Bertram J., 3,442,766.
Smith, Joseph A.; and Formaini, Richard E., 3,421,854.
Sookne, Arnold Maurice; and Berch, Julian, 3,442,694.
Spatz, Sydney M.; and Lipka, Benjamin, 3,429,900.
Stewart, Donald F., 3,461,501.
Suiter, Roger N., 3,449,254.
Sukornick, Bernard; and Wamser, Christian A., 3,422,159.
Sweeney, Richard F.; and Liauw, Kei-Liang, 3,420,697.
Sweeney, Richard F.; and Cunningham, William J., 3,442,952.
Sweeney, Richard F.; and Liauw, Koei-Liang, 3,446,570.
Taylor, Howard D., 3,454,426.
Truesdell, Robert E.; and Nienstedt, William H., 3,471,355.
Ungar, Israel S., 3,470,134.
Wagner, Charles R.; Shultz, Andrew; Allen, Robert A.; and Friedman, Cecil A., 3,426,058.
Wells, Rodney L.; and Sadle, Alexander, 3,457,199.
Wentworth, Theodore O.; and Nisbet, Lawrence W., Jr., 3,471,558.
Whitley, Robert F., 3,455,096.
Windeler, Christopher L.; and Singalewitch, Joseph D., 3,483,597.
Woolf, Cyril; and Gard, Gary Lee, 3,448,121.
Woolf, Cyril; and Wood, Rebecca H., 3,458,636.
Woolf, Cyril; and Pierce, Arleen C., 3,474,164.
Wooster, George S., 3,436,361.
Wooster, George S.; and Kane, Aloysius J., 3,440,216.
Wooster, George S., 3,458,459.
Yodis, Anthony W., 3,433,718.

Allied Chemical Corporaton: *See—*
Schmidt, Lawrence D., 3,457,141.

Allied Control Company, Inc.: *See—*
Zupa, Frank A., 3,474,367.

Allied Farm Equipment, Inc.: *See—*
Wightman, Dixon B.; and Burke, Thomas L., 3,483,960.

Allied Insulation Company: *See—*
Williams, James W.; and Proctor, Phillip K., 3,477,745.

Allied Ironfounders Limited: *See—*
MacDougall, Ian Campbell; and Taylor, John Logan, 3,422,991.

Allied Machine & Engineering Corporation: *See—*
Stokey, William H., 3,460,409.

Allied Mills, Inc.: *See—*
Singer, Philip A., 3,438,780.

Allied Pacific Manufacturing Company: *See—*
Tregubenko, Nicolas, 3,449,813.

Allied Precision Laboratories, Inc.: *See—*
Glick, Ezra N., 3,485,102.

Allied Research Products Incorporated: *See—*
Weisenberger, Lavern M., 3,431,120.

Allied Steel & Tractor Products, Inc.: *See—*
Braff, Joseph A.; and Fox, Richard L., 3,427,939.
Ward, Eugene T., 3,464,501.

Alliegro, Richard A., to Norton Company. Method of preparing plates of boron carbide powder. 3,440,312, 4-22-69, Cl. 264-125.

Alliegro, Richard A., to Norton Company. Refiner plate. 3,482,791, 12-9-69, Cl. 241-296.

Allingham, Robert P.: *See—*
Stephens, Charles R., Jr.; and Allingham, Robert P.,3,440,183.
Stephens, Charles R., Jr.; and Allingham, Robert P.,3,446,629.
Tate, Bryce E.; and Allingham, Robert P.,3,468,916.

Allingham, Walter F.; and Morgan, Hugh M., to Honeywell Inc. Non-displaceable rotary valve. 3,461,912, 8-19-69, Cl. 137-636.4

Allingham, William D. Method of fabricating a cored structure. 3,474,513, 10-28-69, Cl. 29-157.3

Allington, Robert W., to Instrumentation Specialties Company. Apparatus for density gradient electrophoresis. 3,453,200, 7-1-69, Cl. 204-301.

Allington, Robert W., to Instrumentation Specialties Company. Apparatus for measuring absorbance differences. 3,463,927, 8-26-69, Cl. 250-211.

Allinikov, Sidney; and Forbes, Fred W. Expandable self-rigidizing honeycomb structure. 3,466,220, 9-9-69, Cl. 161-68.

Allinquant, Fernand Stanislas. Self-locking connector for fluid transfer. 3,422,864, 1-21-69, Cl. 141-347.

Allinquant, Fernand Stanislas. Hydraulic pit prop. 3,426,995, 2-11-69, Cl. 248-354.

Allinquant, Fernand Stanislas. Sliding seal arrangements. 3,448,665, 6-10-69, Cl. 92-181.

Allio, Robert J.: *See—*
Biancheria, Amilcare; and Allio, Robert J.,3,427,222.

Alliot, Louis; Auclair, Michel; and Godouet, Francois, to Esso Standard Societe Anonyme Francaise. Gasification of hydrocarbons. 3,480,419, 11-25-69, Cl. 48-212.

Allirot, Rene: *See—*
Darcas, Claude; Allirot, Rene; and Laviron, Charles,3,474,142.
Laviron, Charles; Darcas, Claude; and Allirot, Rene,3,474,141.

Allis, Louis Company: *See—*
Robinson, Russell I., 3,479,541.

Allis-Chalmers Manufacturing Company: *See—*
Backe, Eugene K.; and Wiskow, Gary J., 3,441,390.
Baron, Anthony V., 3,473,384.
Baude, John, 3,421,028.
Baude, John, 3,460,036.
Bedell, Edward L., 3,434,527.
Bedell, Edward L., 3,455,373.
Benko, Joseph R.; and Weber Hans J., 3,464,043.
Burkhardt, Edgar S.; and Torrence, James D., 3,456,889.
Cannon, Craig W., 3,420,584.
Cannon, Craig W., 3,446,305.
Cannon, Craig W., 3,469,648.
Chesner, Ramon J.; and Prestridge, James C., 3,441,444.
Curtis, Donald R., 3,463,701.
Daniels, Russell W., 3,463,542.
Danner, Bill A., 3,484,139.
Dreisin, Alexander, 3,424,138.
Dreisin, Alexander, 3,465,737.
Dreisin, Alexander, 3,486,493.
Dreisin, Alexander, 3,486,494.
Dreisin, Alexander, 3,486,696.
Drone, Gary A., 3,441,092.
Feller, Thomas R., 3,434,654.
Fergason, Rector C., 3,439,788.
Fergason, Rector C., 3,449,976.
Fergason, Rector C., 3,464,194.
Fergason, Rector C., 3,465,506.
Fergason, Rector C., 3,473,307.
Fiedler, Bruce H., 3,463,096.
French, Howard W.; and McDaniel, Gordon M., 3,446,347.
Freshwater, Donley D.; and Jenness, Raymond C., 3,429,624.
Frey, Albert M.; and Griffith, Joseph W., 3,448,205.
Gieskieng, David H., 3,441,258.
Gillis, Edward Allan, 3,432,363.

Goodman, Ernest A.; and Johnston, Richmond P., 3,440,586.
Goodman, Ernest A.; Mutschler, William H., Jr.; and Anderson, John M., 3,443,113.
Goodwin, Edwin C., Jr., 3,457,531.
Grooms, Franklin H.; and Wagner, Paul D., 3,441,764.
Harper, William E.; and Ramrath, Joseph M., 3,446,928.
Harper, William E., 3,483,306.
Hawk, Dale W., 3,462,859.
Horn, John M., 3,469,792.
Johnson, James N.; and Lorenc, Donald D., 3,479,758.
Karazija, Arvin, 3,443,380.
Kass, Robert A.; and Schmidt, Harvey W., 3,439,806.
Keogh, Thomas H., 3,474,369.
Keough, Thomas H.; and Haglund, Norman E., 3,435,125.
Kilbane, John K., 3,463,384.
Korn, Roger A., 3,457,432.
Krumholz, Frank C., 3,454,103.
Lehnerer, George J., 3,486,492.
Lenzen, Leo W.; Olsen, Norman G.; and Wenda, Raymond N., 3,480,120.
Leonard, Ronald James, 3,445,294.
Longshore, Donald W., 3,464,277.
Manion, Jean P., 3,446,673.
Manion, Jean P.; Philosophos, John A.; and Robinson, Marquis B., 3,485,735.
Marco, George P., 3,472,550.
Matkovich, Vlado I.; and Colton, Ervin, 3,427,131.
McRay, Ferris L., 3,424,285.
Mikolic, Charles R.; and Burton, Lawrence A., 3,435,389.
Moe, Richard G.; and Sieren, Gerald E., 3,454,105.
Moore, Robert A., 3,479,891.
Moulton, Clifford H., 3,443,202.
Neumann, Manfred E., 3,466,466.
Nichols, Beverly R., 3,484,298.
Norton, Edward T., 3,443,119.
Novak, Leo L., 3,485,324.
O'Connor, John W., 3,469,646.
Oakes, Lloyd; Wakeam, Ralph D.; and Hartwell, Sidney J., 3,427,530.
Parrish, Walter A., Jr., 3,421,486.
Perry, Elijah R., 3,457,428.
Perry, Elijah R.; and Frey, Albert M., 3,485,940.
Phadke, Arun G., 3,465,234.
Potter, Roderick B., 3,472,046.
Preszler, Harold D., 3,472,497.
Purucker, Donald; and Hartwig, Walter J., 3,441,257.
Rockwell, Harvey W.; and Hawk, Dale W., 3,430,367.
Rockwell, Harvey W., 3,463,058.
Ryskamp, Neil J., 3,429,392.
Ryskamp, Neil J., 3,439,927.
Ryskamp, Neil J., 3,463,555.
Sargent, John W., 3,449,607.
Scardina, Virgil R.; Wagner, Paul D.; and Brezic, Raymond L., 3,463,955.
Schaffner, Donald L., 3,464,512.
Schott, Robert E., 3,439,708.
Schott, Robert E.; and Bernhoft, Gerlad W., 3,439,709.
Schott, Robert E., 3,446,320.
Sealey, William C.; and Waterman, Michael W., 3,466,582.
Spengler, Harold H.; and Kempher, Thomas J., 3,446,725.
Thiele, Tom N., 3,427,506.
Thiele, Tom N.; and Ting, Lawrence J., 3,436,653.
Thiele, Tom N.; and Gerlach, Lester O., 3,436,654.
Thiele, Tom N., 3,443,120.
Thiele, Tom N., 3,465,248.
Thiele, Tom N., 3,484,652.
Thomas, Charles H., 3,445,773.
Timmerman, Julius W., Jr., 3,443,115.
Varilek, Ronald D., 3,480,167.
Vitez, Bela, 3,465,975.
Walberg, Maynard E.; and Moe, Richard G., 3,420,313.
Waterman, Michael W., 3,464,041.
Weber, Hans J.; and Mutschler, William H., 3,484,727.
Welch, Fredrick M., 3,484,836.
Wesoloski, Henry J., 3,440,377.
Wesoloski, Henry J., 3,463,892.
Winter, Heinz W., 3,473,743.
Wrangell, Lewis J., 3,458,407.
Wusteney, John J., 3,463,382.

Allisbaugh, Howard C. Packaging arrangement. 3,458,030, 7-29-69, Cl. 206-46.

Allison, Bill R. String holder. 3,440,729, 4-29-69, Cl. 33-86.

Allison, Cecil Jay, Jr.; Jone, Paul Y.; and Jacobson, Paul E., to Weyerhaeuser Company. Process of forming wet strength paper containing a cationic resin and fumarated unsaturated oil. 3,448,005, 6-3-69, Cl. 162-164.

Allison, Clayton E.: *See*—
Stude, John V.; and Allison, Clayton E.,3,486,057.

Allison, David Frank, to Signetics Corporation. Method for making field effect transistor. 3,427,212, 2-11-69, Cl. 148-187.

Allison, Hansell Jack: *See*—
Hughes, William L.; Summers, Claude M.; and Allison, Hansell Jack,3,424,620.
Hughes, William Lewis; Summers, Claude Menta; and Allison, Hansell Jack,3,477,878.

Allison, John P., to General Motors Corporation. Ultraviolet stabilizers for polymers. 3,423,484, 1-21-69, Cl. 260-901.

Allison, Kenneth C. Multi-position rotary electric switch. 3,461,251, 8-12-69, Cl. 200-11.

Allison, Kenneth C. Rotary electric switch rotor construction. 3,467,792, 9-16-69, Cl. 200-11.

Allison, Kenneth C.; and Kelver, William L., to GTS Corporation. Multiple tie rod fastener and mounting bracket. 3,433,120, 3-18-69, Cl. 85-36.

Allison, Kenneth C.: *See*—
Cooley, William H.; Allison, Kenneth C.; and Colburn, William,3,466,181.
Cooley, William H.; and Allison, Kenneth C.,3,466,216.

Allison, Louie J.; and Dyer, Richard F., to Eastman Kodak Company. Composite yarn. 3,458,986, 8-5-69, Cl. 57-140.

Allison, Philip J., to Simms, T. S., & Co., Limited. Roller coater chamferring device. 3,465,641, 9-9-69, Cl. 90-11.

Allison, Robert Corwin; Fischer, Franz; and Hausermann, Heinrich, to Geigy Chemical Corporation. Polysulfonated bis-s-triazinylamino-stilbene- 2,2'-disulfonic acids. 3,479,349, 11-18-69, Cl. 260-240.

Allison, Robert D., to United States Envelope Company. One-piece perforated enclosed coupon envelope. 3,426,961, 2-11-69, Cl. 229-70.

Allison, Thomas K., to Beck Engraving Company, Inc., The. Method and apparatus for producing precision spreads. 3,449,048, 6-10-69, Cl. 355-40.

Allison, William D., to Ford Motor Company. Interconnected vehicle suspension. 3,446,514, 5-27-69, Cl. 280-124.

Allison, William D., to Ford Motor Company. Rear suspension system for a motor vehicle. 3,486,575, 12-30-69, Cl. 180-71.

Allison, William E. Wire connection cover. 3,430,800, 3-4-69, Cl. 220-3.94

Allman, William T., Jr.; Winger, James H.; and Burn, William A., Jr., to Celanese Corporation. Processing of fluid entangling nonwoven fabrics. 3,452,412, 7-1-69, Cl. 28-72.

Allmanna Stalelement AB: *See*—
Wiklund, Per, 3,455,070.

Allmanna Svenska Elektriska Aktiebolaget: *See*—
Agerman, Erik; Lindstedt, Ake; and Nilsson, Nils-Erik, 3,470,404.
Andersson, Nils Eric, 3,447,042.
Andersson, Nils Eric; and Lilja, Goran, 3,470,405.
Aviander, Stig, 3,431,471.
Bjorklund, Ludvig, 3,437,012.
Boksjo, Carl Ingvar, 3,486,103.
Breitholtz, Bo; Carlen, Fred; and Ahrnholm, Par, 3,424,199.
Breitholtz, Bo; and Carlen, Fred, 3,482,070.
Bronnvall, Wolfgang; and Andreassen, Jostein, 3,470,045.
Carlson, Henry; Lundquist, Ingvar; Danieli, Sten Henrik; and Andersson, Rune, 3,427,991.
Edling, Gustaf Emanuel, 3,453,176.
Edqvist, Olle; Svedberg, Per; and Vedin, Bengt-Arne, 3,437,886.
Ekstrom, Staffan; and Yngvesson, Lindy, 3,424,972.
Eriksson, Karl-Axel; and Tveteras, Martin, 3,486,073.
Eriksson, Kjell Karl-Axel; Lindblad, Sven Erland Gustav; and Lindeberg, Bengt Gosta, 3,470,450.
Essen, Edgar, 3,431,443.
Fejes, Peter, 3,437,207.
Glandin, Constan, 3,431,171.
Glandin, Constan, 3,457,140.
Glandin, Constan; and Skar, Harald, 3,481,021.
Grees, Karl Lennart; and Karlsson, Sven Olof, 3,462,619.
Hammarlund, Bertil, 3,421,052.
Hammarlund, Bertil, 3,447,063.
Hannerz, Kare; Sundqvist, Cnut; and Skygge, Carl Gosta, 3,446,704.
Hellman, Erik, 3,448,008.
Jaaksoo, Lembit; and Stange, Werner, 3,470,525.
Jacobsen, Clas, 3,435,287.
Jonsson, Erik, 3,432,387.
Kaipainen, Arto; Rullgard, Ake; Skygge, Carl Gosta; and Sundqvist, Cnut, 3,437,557.
Krabbe, Ulrich, 3,470,448.
Krabbe, Ulrik; and Hedstrom, Hans, 3,430,122.
Larsson, Paul, 3,430,471.
Laurell, Lars G.; and Mandt, Arne, 3,487,455.
Linderholm, Sven; and Diser, Birger, 3,445,903.
Lindholm, Ingemar; and Mueller, Bo, 3,437,526.
Lindholm, Ingemar; and Karlsson, Gun, 3,470,030.
Lofgren, Ingemar, 3,469,440.
Lundstrom, Hans Torbjorn, 3,470,303.
Norman, Sivert, 3,462,562.
Persson, Erik; Claesson, Nils-Erik; Trulsson, Ingvar; and Melandsor, Osvald, 3,470,383.

Persson, Erik, 3,487,286.
Pucher, Walter, 3,420,972.
Ronnevig, Carl, 3,447,002.
Schmiterlow, Fredrik, 3,469,538.
Sivilotti, Olivo Giuseppe; and Carlsson, Pervi, 3,481,194.
Stackegard, Hans, 3,424,971.
Stackegard, Hans, 3,448,285.
Stackegard, Hans A., 3,448,286.
Svedberg, Per, 3,470,036.
Torok, Vilmos, 3,446,968.
Uhlmann, Erich, 3,431,482.
von Krusenstierna, Otto; Lindholm, Ingemar; and Malmberg, Gunnar, 3,432,353.
Wedin, Thord, 3,457,114.
Wennerlund, Eric; and Lundback, Sven, 3,430,351.
Widell, Marja, 3,486,943.

Allmark, Reginald Hugh, to English Electric Computers Limited. Transistor logical circuit arrangements. 3,448,288, 6-3-69, Cl. 307-215.

Allori, Aldo; and Wilger, John A., to International Harvester Company. Brake released differential lock. 3,463,277, 8-26-69, Cl. 192-4.

Alloy Engineering Company, The: *See—*
Freund, William P., 3,443,801.
Johnson, Carl G. A., 3,441,260.

Alloy Steel Products Co.: *See—*
Britton, Harrison J., 3,434,693.

Alloy Surfaces Company, Inc.: *See—*
Baldi, Alfonso L., 3,458,353.
Baldi, Aluonso L., 3,449,159.

Allphin, Nylen L., Jr., to Marathon Oil Company. Nitroso compounds and processes for their production. 3,445,530, 5-20-69, Cl. 260-645.

Allphin,Nylen L., Jr., to Chevron Research Company. Nonvicinal gylcols in overbased phenate preparation. 3,424,679, 1-28-69, Cl. 252-33.

Allport, John J.: *See—*
Holzman, Allen L.; and Allport, John J.,3,449,600.

Allred, Victor D., to Marathon Oil Company. Rotary concentric partition in a coke oven hearth. 3,448,012, 6-3-69, Cl. 201-27.

Allred, Von D. Rotary device. 3,431,894, 3-11-69, Cl. 123-8.

Allsop Automatic, Inc.: *See—*
Allsop, Ivor J., 3,425,564.

Allsop, Ivor J., to Allsop Automatic, Inc. Support rack and bracket for shoes and boots. 3,425,564, 2-4-69, Cl. 211-37.

Allsop, Ivor John. Lazy susan shoe support. 3,478,890, 11-18-69, Cl. 211-37.

Allsop, Robert T., to G.K.N. Screws & Fasteners Limited G.K.N. Screws & Fasterners Limited. Apparatus for tightening and locking nuts on bolts. 3,479,714, 11-25-69, Cl. 29-200.

Allsopp, Peter James, to United Kingdom Atomic Energy Authority. Weigh-feeders. 3,458,004, 7-29-69, Cl. 177-116.

Alluvial Mining and Shaft Sinking Company Limited: *See—*
Richardson, Henry John, 3,486,570.

Allyn, Anderson A., to Chardon Metal Products Company. Wire twisting device. 3,420,280, 1-7-69, Cl. 140-149.

Allyn, Richard J.: *See—*
Hamilton, William H.; and Allyn, Richard J.,3,486,572.

Alm Corp.: *See—*
Field, Milton Scott; and Nilson, Edward B., 3,432,629.

Alm, Robert M.: *See—*
O'Grady, Thomas M.; Alm, Robert M.; and Hoff, Melvern C.,3,437,698.

Almac Cryogenics, Inc.: *See—*
Hedstrom, Albert V., 3,433,248.

Almasy, David M. Coil rack. 3,460,684, 8-12-69, Cl. 211-13.

Almer, Friedrich Hermann Raymund; and Kuiper, Adrianus, to U.S. Philips Company, Inc., mesne Battelle-Institut e.V. Cathodes for use in electric discharge tubes. 3,472,693, 10-14-69, Cl. 117-221.

Almvide, Sven, to Aktiebolaget Original-Odhner. Mechanical couplings. 3,466,939, 9-16-69, Cl. 74-142.

Alnor Instrument Company: *See—*
Donath, Edwin W., 3,450,343.
Peltola, Veikko K., 3,466,542.
Pierman, Martin J.; Donath, Edwin W.; and Ernst, Otto A., 3,463,003.

Aloe Creme Laboratories, Inc.: *See—*
Marsh, Joseph R., Jr., 3,470,109.

Alofs, Herman G., to Alofs Manufacturing Company. Buckle mechanism. 3,453,702, 7-8-69, Cl. 24-230.

Alofs Manufacturing Company: *See—*
Alofs, Herman G., 3,453,702.

Alon, Alexander: *See—*
Baniel, Avraham; Blumberg, Ruth; and Alon, Alexander,3,433,592.

Alonso, Jose. Children's streamer toy. 3,439,446, 4-22-69, Cl. 46-51.

Alonso, Ramon L.; Oleksiak, Robert E.; and Turner, William B., to Massachusetts Institute of Technology. Process for manufacturing digital computer memories. 3,451,129, 6-24-69, Cl. 29-604.

Alonzo, Richard L.; and Augustin, Eugene H., to Ford Motor Company. Process for the manufacture of float glass utilizing regular and auxiliary heating elements. 3,486,869, 12-30-69, Cl. 65-27.

Alonzo, Richard L.; Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N., to Ford Motor Company. Glass manufacturing chamber containing buoyant side wall liners of graphite. 3,481,729, 12-2-69, Cl. 65-182.

Alosi, Michael. Combination yard and garden tool. 3,430,704, 3-4-69, Cl. 172-372.

Alpana Aluminum Products, Inc.: *See—*
La Bissoniere, Robert L., 3,462,884.

Alpen, Cecil W., to Green Giant Company. Broccoli trimmer. 3,478,794, 11-18-69, Cl. 146-78.

Alper, Allen M., to Corning Glass Works. Metallurgical furnace. 3,433,471, 3-18-69, Cl. 266-35.

Alpermann, Hans Georg: *See—*
Ruschig, Heinrich; Meixner, Willi; and Alpermann, Hans Georg,3,445,473.

Alpermann, Hans-Georg: *See—*
Ehrhart, Gustav; Ther, Leopold; Alpermann, Hans-Georg; and Ott, Heinrich,3,426,028.

Alpern, Alan N.: *See—*
Troll, John H.; and Alpern, Alan N.,3,463,168.

Alpert, Edward D.: *See—*
Racine, William J.; Alpert, Edward D.; and Caldwell, James H., Jr.,3,438,889.

Alpert, Louis, to United States of America, Navy. Detent rib. 3,468,215, 9-23-69, Cl. 89-1.8

Alpha Portland Cement Company: *See—*
Hersey, Arthur T.; and Brownmiller, Lorrin T., 3,447,937.

Alpha Press Company: *See—*
Weiss, Adolf, 3,430,538.

Alphamatic Corporation: *See—*
Maziarka, Robert J., 3,425,566.
Maziarka, Robert J., 3,447,459.
Maziarka, Robert J., 3,483,646.

Alphanumeric, Incorporated: *See—*
Manber, Solomon, 3,471,848.

Alphen, Jacques, to Societe dite: Projecteurs Cibie. Flashing device for self-propelled vehicles in particular. 3,426,246, 2-4-69, Cl. 315-83.

Alpina-Werk Bovensiepen KG: *See—*
Fuhr, Hans, 3,484,324.

Alpine Aktiengesellschaft: *See—*
Kaiser, Fritz W., 3,437,202.

Alpine Chemische Aktiengesellschaft: *See—*
Zorn, Hermann; and Till, Heinrich, 3,448,145.

Alpine Geophysical Associates, Inc.: *See—*
Smith, Larry G.; Blake, Gordon H.; and Van Way, Jim P., 3,438,678.

Alpine-Western, Inc.: *See—*
Bachrach, Erwin; and Gabrielson, Dan A., 3,438,138.

ALPMA Alpenland-Maschinenbaugesellschaft Hain & Co. K.G.: *See—*
Hain, Gottfried M.; and Leonard, Wolfgang B., 3,439,472.

Alsch, Richard E., to Graham Transmissions, Inc. Variable transmission. 3,424,018, 1-28-69, Cl. 74-198.

Alsco, Inc.: *See—*
Nash, John J., 3,438,108.
Nash, John J., 3,456,552.
Pengelly, Charles P., 3,451,168.

Alscope Limited: *See—*
Mills, Everett C., 3,461,028.

Alseth, Gilmore Noble, to Minnesota Mining and Manufacturing Com0y088888888. Developing apparatus with a heated transport roll. 3,439,905, 4-22-69, Cl. 263-6.

Alsobrooks, Darriel L., to Michigan Dynamics, Inc. Air cleaner for turbine engines. 3,444,672, 5-20-69, Cl. 55-306.

Alsop, Charles Francis, to Davy and United Instruments Limited. Control systems. 3,478,551, 11-18-69, Cl. 72-8.

Alsop, Ranulph Michael, to Fisons Pharmaceuticals Limited. Process for the partial depolymerization of dextrans. 3,454,553, 7-8-69, Cl. 260-209.

Alstad, John K.: *See—*
Speliotis, Dennis E.; Morrison, John R.; Alstad, John K.; and Bate, Geoffrey,3,453,646.

Alstedt, William A., to Triax Company, The. Extractor mechanism for a warehouse system. 3,486,653, 12-30-69, Cl. 214-730.

Alstedt, William A.; and Atwater, Wayne G., to Triax Company, The. Automatic warehousing system for bar storage. 3,445,010, 5-20-69, Cl. 214-16.4

Alster, David I.; and Eggert, Jacob H. Visual call indicator for telephone sets. 3,459,900, 8-5-69, Cl. 179-84.

Alster, David I.: *See—*
Waly, Adnan; Just, Richard; Schwartzman, Leonard; and Alster, David I.,3,426,197.

Alstergren, Martin Robert Mac Donald. Prosthetic device for animal teeth. 3,462,838, 8-26-69, Cl. 32-12.

Alsthom-Savoisienne: *See—*
Derippe, Jean-Marie; and Aumont, Pierre Maurice, 3,454,915.

Lair, Philippe C., 3,440,326.

Alston Tool & Gauge Company Limited, The: *See—*
Allen, Geoffrey William; and Songhurst, Cecil James, 3,456,397.

Alsup, Richard Glenn; and Leverett, Glenn Frederick, to Du Pont de Nemours, E. I., and Company. Vapor-phase base clean-up of polyoxymethylene. 3,477,993, 11-11-69, Cl. 260-67.

Alsys, Clarence M.: *See—*
Wilmsen, George M.; and Alsys, Clarence M.,3,474,662.

Alt, Gerhard H., to Monsanto Company. 1-Chloro-cycloalkane-1-carbox amides. 3,470,173, 9-30-69, Cl. 260-247.7

Alt, Gerhard H., to Monsanto Company. Cyclodiene carbox amides. 3,470,174, 9-30-69, Cl. 260-247.7

Alt, Gerhard H., to Monsanto Company. 1-Tertiary amino-1-trichloro methyl cycloalkanes. 3,475,428, 10-28-69, Cl. 260-247.

Alt, Gerhard H., to Monsanto Company. Trichloromethyl-tertiary amino substituted cycloalkenes and their preparation. 3,479,352, 11-18-69, Cl. 260-247.

Alt, Gerhard H.; and Speziale, Angelo John, to Monsanto Company. Enaminoketone sulfides. 3,452,001, 6-24-69, Cl. 260-239.

Alt, Gerhard H.: *See—*
Speziale, Angelo John; and Alt, Gerhard H.,3,428,633.

Altavilla, Alex P., to General Aniline & Film Corporation. Prevention of silver occlusion in color photography. 3,421,896, 1-14-69, Cl. 96-55.

Altec Gesellschaft Fur Allgemeine Landtechnik m.b.H.: *See—*
Schmierer, Heinz, 3,468,261.

Altekruse, John L.; Buxton, Albert C.; Hancock, Robert O.; and Miller, James H., to Goodyear Aerospace Corporation. Vehicle guidance system. 3,421,716, 1-14-69, Cl. 244-3.17

Alten, Edward H.: *See—*
Dubble, Roger D.; and Alten, Edward H.,3,438,803.

Alten, Kurt. Framework-shaped transloading bridge. 3,423,780, 1-28-69, Cl. 14-72.

Alten, Kurt. Transloading bridge. 3,460,176, 8-12-69, Cl. 14-72.

Altenpohl, Dietrich; and Gyongyos, Ivan, to Swiss Aluminium Ltd. Machine for the continuous casting of slabs between bands. 3,426,836, 2-11-69, Cl. 164-278.

Altenweger, Alois, to Zellweger Ltd., Uster Factories for Apparatus and Machines. Device for preparing and presenting new warp to a weaving loom. 3,423,808, 1-28-69, Cl. 28-49..

Altenweger, Alois, to Zellweger Ltd. Frame for a warp-tying machine and the like. 3,438,103, 4-15-69, Cl. 28-41.

Altenweger, Alois, to Zellweger Ltd. Guide frame construction for tying attachments of warp tying machines. 3,447,212, 6-3-69, Cl. 28-49.

Alter, David E., Jr. Book binding. 3,448,536, 6-10-69, Cl. 40-104.02

Alter, Henry Ward, to General Electric Company. Track-etch neutron radiography. 3,457,408, 7-22-69, Cl. 250-83.1

Alter, Henry W., to General Electric Company. Track registration bulk tracing method. 3,486,027, 12-23-69, Cl. 250-106.

Alterman, Daniel S.; and Williams, Lester, to Prodesco, Inc. Apparatus for weaving stiff filamentray material. 3,434,508, 3-25-69, Cl. 139-130.

Alterman, Iosif Ilich: *See—*
Gutnikov, Eduard Julievich; Melnikov, Oleg Nikolaevich; Matjunin, German Borisovich; and Alterman, Iosif Ilich,3,440,932.

Altermatt, Hans, to Ciba Limited. Di-(hydroxynaphthyl)-triazines. 3,478,024, 11-11-69, Cl. 260-248.

Altermatt, Hans, to Ciba Limited. Dihydroxyarylbenzoquinoxaline dyestuffs. 3,484,441, 12-16-69, Cl. 260-250.

Altermatt, Ruedi; and Mueller, Curt, to Sandoz Ltd., a/k/a Sandoz A.G. Water-insoluble phenyl azo phenyl dyes. 3,428,622, 2-18-69, Cl. 260-207.

Alternac, Pariric Village: *See—*
Laudel, Arthur, Jr., 3,435,325.

Altes, Stephen K., to United States of America, Army, mesne. Method for milling waveguide bends. 3,482,308, 12-9-69, Cl. 29-600.

Altfather, Conrad T., to Westinghouse Electric Corporation. Frequency shift relaying apparatus. 3,443,159, 5-6-69, Cl. 317-36.

Altfather, Conrad T.; and Lensner, Herbert W., to Westinghouse Electric Corporation. Static switching apparatus for selectively controlling one or more output circuits. 3,427,473, 2-11-69, Cl. 307-241.

Altgelt, George A., to Chrome Plate, Inc. Method of repairing aircraft cylinder heads. 3,445,914, 5-27-69, Cl. 29-402.

Althaus, Edward J., to Hughes Aircraft Company. Stochastic event simulator. 3,433,934, 3-18-69, Cl. 235-92.

Althen, Winfried: *See—*
Keller, Hans; Risch, Karl; and Althen, Winfried,3,457,103.

Altherr, Russell G., to Amsted Industries Incorporated. Automatic slack adjuster. 3,432,011, 3-11-69, Cl. 188-196.

Althoff, Donald G. Tuning device. 3,433,116, 3-18-69, Cl. 84-454.

Altier, Vincent A.; and Wells, Edward T., to Firestone Tire & Rubber Company, The. Aqueous rubbery terpolymer latex containing an epoxy resin. 3,444,121, 5-13-69, Cl. 260-29.7

Altieri, Joseph R.: *See—*
Dodge, David L.; Altieri, Joseph R.; and Kezer, Charles F.,3,457,503.

Altman, Daniel E., to United States of America, Navy. Strongest photosignal selection by an inhibiting or gate. 3,448,274, 6-3-69, Cl. 250-209.

Altman, Daniel E.; and Geller, Myer, to United States of America, Navy. Laser energy pump which employs an extension of a coaxial transmission line. 3,470,493, 9-30-69, Cl. 331-94.5

Altman, Daniel E.: *See—*
Geller, Myer; and Altman, Daniel E.,3,458,830.

Altman, Gerald. Episcopic projection photographic element. 3,430,375, 3-4-69, Cl. 40-158.

Altman, Gerald. Reflex reflective products and processes for their manufacture. 3,469,898, 9-30-69, Cl. 350-103.

Altman, Harry: *See—*
Gutleber, Frank S.; Levine, Elihu; Bogert, Warren D.; Silverstein, Samuel; and Altman, Harry,3,483,549.

Altman, Max S.; and Cox, James V. Bathing boot with means to massage foot. 3,478,738, 11-18-69, Cl. 128-66.

Altmann, Albrecht, to Blaupunkt-Werke G.m.b.H. Matrix circuit for a color television receiver. 3,429,987, 2-25-69, Cl. 178-5.4

Altmann, Helmut, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Supporting device for radio telescopes. 3,438,039, 4-8-69, Cl. 343-765.

Altmann, Werner E., to Daimler-Benz Aktiengesellschaft. Blocking-type synchronizing shifting clutch for motor vehicle change-speed transmissions. 3,451,513, 6-24-69, Cl. 192-53.

Altmann, Werner E., to Daimler-Benz Aktiengesellschaft. Self-locking differential gear, especially for motor vehicles. 3,457,807, 7-29-69, Cl. 74-711.

Altmanshofer, Robert Dale: *See—*
Crookshanks, Paul Edward; and Altmanshofer, Robert Dale,3,461,225.

Alto Company: *See—*
Irving, Frank M., Jr.; and Schmidt, Albert S., 3,438,522.

Altscher, Siegfried; and Fetscher, Charles A., to Diamond Shamrock Corporation. Process for producing a high molecular weight linear urethane polymer. 3,476,710, 11-4-69, Cl. 260-77.5

Altschuler, Samuel. Vibrationless pneumatic tool. 3,456,744, 7-22-69, Cl. 173-137.

Altshuler, Thomas L.; Harr, Thomas E.; and Ledges, George E., to United States of America, Navy, mesne. Infrared camera tube utilizing a superconductor material detector. 3,435,137, 3-25-69, Cl. 178-7.1

Altson, George R.: *See—*
Altson, Ralph,3,477,773.

Altson, George. Phantom drive. 3,428,017, 2-18-69, Cl. 115-34.

Altson, John A.: *See—*
Altson, Ralph,3,477,773.

Altson, Ralph, deceased0 (by Altson, John A.0Altson, George R.; administrators), to General Motors Corporation. Molded cage for nonseparable assembly of roller bearings. 3,477,773, 11-11-69, Cl. 308-214.

Altwicker, Elmar R., to Universal Oil Products Company. Preparation of hydroxy substituted diarylamines. 3,450,764, 6-17-69, Cl. 260-571.

Altwicker, Elmar R., to Universal Oil Products Company. N-piperidyl substituted phenylenediamines. 3,480,635, 11-25-69, Cl. 260-293.

Altwicker, Elmar R. Synthesis of 2,6-disubstituted hydroquinones. 3,487,117, 12-30-69, Cl. 260-625.

Altwicker, Elmar R.; and Michaels, Leo, to Universal Oil Products Company. N, N'-di(2-aminobenzoyl)-phenylenediamines. 3,487,110, 12-30-69, Cl. 260-558.

Alul, Husni R.; and McEwan, Gilbert J., to Monsanto Company. Process for the manufacture of aromatic substituted alkanes. 3,483,262, 12-9-69, Cl. 260-624.

Aluminium Laboratories Limited: *See—*
Baker, William A.; Hartree, John R.; and Gould, Robert, 3,429,166.
Bryson, Neil Burton, 3,441,079.
Cooke, William Ernest; Smits, Paul; and Cote, Jacques Francois, 3,471,375.
Dewing, Ernest William, 3,425,797.
Dewing, Ernest William; and Phillips, Norman W. F., 3,436,210.
Dewing, Ernest William, 3,436,211.
Edwards, Aubrey T.; and Mussen, Guy A., 3,445,586.
Hambly, John Arthur, 3,466,142.
Sheasby, Peter Geoffrey; Short, Edward Percival; and Guminski, Roman Dominik, 3,468,772.
Wollam, Carl Arlen, 3,447,227.

Aluminum Company of America: *See—*
Buchovecky, Kalman E.; and Patton, Wilbur L., 3,478,136.
Burkart, Alan R.; and Mudge, John H., 3,477,494.
Craig, Richard T., 3,455,369.
De Voe, Harvey B., Jr.; and Toms, Jay M., 3,425,570.
Demsey, John N.; and Heffran, Vernon C., 3,478,554.
Dunn, Lloyd G.; and Hrovath, John W., 3,441,169.
Dunn, Lloyd G., 3,479,979.
Eiland, Ehrlich M., 3,460,966.
Gamber, Erwin J.; and Rauschenbach, Roger R., 3,436,236.
Gitzen, Walter H.; and Mac Zura, George, 3,432,313.

Gitzen, Walter H.; and Hart, Leroy D., 3,443,894.
Gitzen, Walter H.; and Hart, Leroy D., 3,443,895.
Heffner, Robert E., 3,429,102.
Heffner, Robert E., 3,446,390.
Hess, Paul D., 3,436,212.
Hirsh, William, 3,425,800.
Hunter, Matthew S., 3,475,289.
La Barge, Robert L., 3,421,276.
La Barge, Robert L.; and Riesen, Walter C., Jr., 3,441,163.
La Barge, Robert L., 3,473,965.
La Barge, Robert L., 3,479,790.
Leftault, Charles J., Jr., 3,460,703.
Leftault, Charles J., Jr., 3,473,964.
Leftault, Charles J., Jr.; and La Barge, Robert L., 3,473,967.
Rolles, Rolf; and Luyk, Kenneth E., 3,437,612.
Stroup, Philip T.; and Terrill, James R., 3,431,629.
Stroup, Philip T.; Cochran, Charles Norman; and Stokes, John J., Jr., 3,440,712.
Terrill, James R., 3,477,118.
Von Stocker, Selmer G., 3,424,337.
Wood, Charles L., Jr., 3,477,190.
Zelley, Walter G., 3,475,241.

Aluminum Extrusions, Inc.: *See—*
Kann, Henry Robert, 3,458,052.

Aluminum Foils Limited: *See—*
Field, Leonard Edward, 3,443,052.

Aluminum Plastic Products Corporation: *See—*
Costanzo, Nicholas Joseph, Jr., 3,420,015.

Aluminum Specialty Company: *See—*
Cowles, Craig H., 3,476,082.

Alvang, Folke N.; and Nordgren, Kurt A., to Mo Och Domsjo Aktiebolag. Method of improving the drainage properties of high bark content wood pulp in the making of fiberboard. 3,446,697, 5-27-69, Cl. 162-17.

Alvarado Manufacturing Company, Inc.: *See—*
Alvarado, William T., 3,420,013.

Alvarado, William T., to Alvarado Manufacturing Company, Inc. Post construction. 3,420,013, 1-7-69, Cl. 52-161.

Alvarados, Matias. Rope hook. 3,427,996, 2-18-69, Cl. 105-369.

Alvarez-Calderon, Alberto. Inverting falp shapes and mechanisms. 3,481,561, 12-2-69, Cl. 244-42.

Alvarez, Francisco S., to Syntex Corporation. Preparation of bisnorcholanic acid derivatives. 3,450,722, 6-17-69, Cl. 260-397.1

Alvarez, Francisco, to Syntex Corporation. Process for preparing 3-keto-19-nor-Δ4,9(10) steroids. 3,453,295, 7-1-69, Cl. 260-397.3

Alvarez, Francisco, to Syntex Corporation. Process for the preparation of $\Delta^{5(10)}$-3β- hydroxy-6-acyloxy steroids. 3,481,925, 12-2-69, Cl. 260-239.55

Alvarez, Luis W., to Bell & Howell Company, mesne. Gyroscopic lens. 3,434,771, 3-25-69, Cl. 350-16.

Alvarez, Luis W., to Optical Research and Development Corporation. Stabilized zoom optical device. 3,468,596, 9-23-69, Cl. 350-16.

Alvarez, Robert J., to General Electric Company. Ice dispenser having stages with different feed rates. 3,422,994, 1-21-69, Cl. 222-240.

Alvarez, Robert J.; and Jacobus, Dwight W., to General Electric Company. Ice dispenser having stages with different feed rates. 3,437,244, 4-8-69, Cl. 222-240.

Alverson, William Keith: *See—*
Simon, Joseph William; and Alverson, William Keith,3,478,283.

Alves Photo Service, Inc.: *See—*
Lee, Richard G., 3,469,482.

Alvey Conveyor Manufacturing Company: *See—*
Roth, Ernest E.; and Tanner, Henry E., 3,442,400.

Alwani, Dru W.: *See—*
Smith, Wayne E.; Alwani, Dru W.; and Anspon, Harry D.,3,420,798.
Smith, Wayne E.; Anspon, Harry D.; Ham, George E., Jr.; and Alwani, Dru W.,3,474,062.

Alway, Clayton D., to Upjohn Company, The. Cathode ray system for viewing transparencies. 3,472,952, 10-14-69, Cl. 178-6.8

ALWEG Gesellschaft mit beschrankter Haftung: *See—*
Deller, Konrad, 3,439,629.

Alwitt, Robert S., to Sprague Electric Company. Capacitor with electrolyte having dimethylsulfoxide and a cosolvent. 3,487,270, 12-30-69, Cl. 317-230.

Amacher, Gene L., to National Cash Register Company, The. Sensing means. 3,441,715, 4-29-69, Cl. 235-61.11

Amada, Isamu. Band saw. 3,456,539, 7-22-69, Cl. 83-201.15

Amadon, Roger M.; Crawford, Leo L.; and Mangelsdorf, Robert C., to Pet Incorporated. Separation of pecan meats and shells. 3,452,862, 7-1-69, Cl. 209-2.

Amako, Shigeyuki; and Ohneda, Shoichi, to Tanak Instrument Company. Miniature synchronous motor. 3,483,411, 12-9-69, Cl. 310-162.

Amalgamated Dental Company Limited, The: *See—*
Stephens, Richard Russell, 3,425,413.

Amalgamated Wireless (Australasia) Limited: *See—*
Davies, Louis Walter, 3,439,173.

Amana Refrigeration, Inc.: *See—*
Harty, M. Fillmore, Jr., 3,468,449.
Maxwell, Richard D., 3,466,891.
Pfeiffer, Aelred J.; and Marz, Louis R., 3,473,345.

Amann, August: *See—*
Bachmann, Gerhard; and Amann, August,3,475,431.

Amann, Fritz, to Titan Eisewarenfabrik GmbH. Automatic welding machine for mass produced articles. 3,453,410, 7-1-69, Cl. 219-103.

Amano, Carl K.: *See—*
Bauer, William C.; and Amano, Carl K.,3,429,693.

Amano Corporation: *See—*
Amano, Shuichi; Ozono, Tetsujiro; and Koizumi, Kiyotaka, 3,453,643.
Amano, Shuichi; and Ozono, Tetsujiro, 3,453,650.
Sakurai, Hiroshi, 3,462,941.

Amano, Kitsutaro: *See—*
Oshima, Shintaro; Kamibayashi, Tetsusaburo; and Amano, Kitsutaro,3,440,436.

Amano, Minoru; Nishihashi, Toru; Shinada, Shozo; and Ito, Yushi, to Nissin Sugar Mfg., Co., Ltd. Process for the preparation of instantaneously soluble porous granular sugar. 3,445,283, 5-20-69, Cl. 127-58.

Amano, Noboru; and Furukawa, Tomozo, to Nihon Genshiryoku Kenkyu Sho. System for measuring the period of a nuclear reactor by measuring the frequency or period difference of nonsimultaneously generated signals. 3,444,461, 5-13-69, Cl. 324-68.

Amano Seiyaku Kabushiki Kaisha: *See—*
Arima, Kei; Tamura, Gakuzo; Narasaki, Teiiti; Nakamura, Yoshio; and Saiki, Takashi, 3,431,175.

Amano, Shuichi; and Ozono, Tetsujiro, to Amano Corporation. Time signal generator. 3,453,650, 7-1-69, Cl. 346-79.

Amano, Shuichi; Ozono, Tetsujiro; and Koizumi, Kiyotaka, to Amano Corporation. Time recorder. 3,453,643, 7-1-69, Cl. 346-17.

Amano, Yasuji; Kumano, Hiroshi; and Nishino, Atsushi, to Matsushita Electric Industrial Co., Ltd. Process for preparing mercuric oxide. 3,464,902, 9-2-69, Cl. 204-96.

Amanrich, Robert: *See—*
Cousserans, Gilbert; and Amanrich, Robert,3,438,746.
Pomot, Jean; Amanrich, Robert; and Cousserans, Gilbert,3,458,508.

Amato, Anthony: *See—*
Goltsos, Costas E.; and Amato, Anthony,3,440,407.

Amato, Carmelo J.: *See—*
Christiansen, Paul; and Amato, Carmelo J.,3,467,850.

Amato, William J. Snap-on baseboard. 3,464,177, 9-2-69, Cl. 52-287.

Amatruda, Joseph A., 50% to Amatruda, Sylvia, and 25% to Simeone, Joseph A., Jr., and 25% to Wendler, Robert A. Shower receptors and the like. 3,457,568, 7-29-69, Cl. 4-146.

Amatruda, Sylvia: *See—*
Amatruda, Joseph A., 3,457,568.

Amazonen-Werke H. Dreyer: *See—*
Dreyer, Heinz; and Herbeck, Ernst, 3,425,636.
Dreyer, Heinz, 3,432,150.

AMBAC Industries, Incorporated: *See—*
Burson, Bob Orman, 3,464,397.
Chmura, Theodore S.; and Voigt, Max H., 3,420,179.
Da Rold, James J.; and Trevisin, Rudolph F., 3,463,919.
Davidson, Gareth M.; and Davenport, Charles T., 3,464,255.
Fuchs, Richard W., 3,446,154.
Goodhue, William M.; Osband, Sidney; and Sabath, Herman, 3,452,609.
Howe, Edwin W., 3,477,297.
Howe, Edwin W., 3,477,298.
Kimberley, John A., 3,464,803.
Long, Benjamin E., 3,487,246.
Scotto, Dominick P., 3,459,395.
Stephens, Joe B., 3,452,730.
Stephens, Joe Baron, 3,421,368.
Stephens, Joe Baron, 3,461,851.
Voigt, Max H., 3,440,964.

Amberg, Ralph G.: *See—*
Amberg, Stephen W.; Amberg, Ralph G.; and Phillips, Julius,3,471,992.
Amberg, Stephen W.; and Amberg, Ralph G.,3,445,892.

Amberg, Stephen W., to Owens-Illinois, Inc., mesne. Two-piece plastic container having foamed thermoplastic side wall. 3,468,467, 9-23-69, Cl. 229-1.5

Amberg, Stephen W.; and Amberg, Ralph G., to Owens-Illinois, Inc., mesne. Plastic liners in receptacles. 3,445,892, 5-27-69, Cl. 18-19.

Amberg, Stephen W.; Amberg, Ralph G.; and Phillips, Julius, to Owens-Illinois, Inc. Container sealing method. 3,471,992, 10-14-69, Cl. 53-39.

Amberg, Stephen W.; Burke, Douglas J.; and Nicholas, Nicholas J., to Owens-Illinois, Inc., mesne. Two-piece plastic container. 3,454,208, 7-8-69, Cl. 229-4.5

Ambler, Walter B.; and Mawney, Robert G., to Texas Instruments Incorporated. Miniature electrical switch. 3,431,526, 3-4-69, Cl. 337-89.
Ambros, Otto; Hauck, Gerhard; and Frings, Manfred. Method of producing laminated plastic tubing. 3,458,378, 7-29-69, Cl. 156-244.
Ambros, Richard. Pulley transmissions and installations which include pulley transmissions. 3,434,641, 3-25-69, Cl. 226-188.
Ambrose, Jere B., to Northern Fiber Products Company. Welting cord and method of making same. 3,482,483, 12-9-69, Cl. 87-6.
Ambrose, John J.: *See—*
Fuqua, Norman L.; and Ambrose, John J.,3,478,671.
Ambrosh, Frederick R. Foot steering bracket for outboard motors. 3,420,203, 1-7-69, Cl. 114-153.
Ambrosius, Dietrich: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Ambrosius, Manfred: *See—*
Fulling, Wolfgang; and Ambrosius, Manfred,3,423,060.
Ambrust, Herbert: *See—*
Seefelder, Matthias; Ambrust, Herbert; and Wippel, Hans Guenter,3,455,898.
Ambulos, Charles P.; Romboni, Albert H.; and Willard, Bernard S., Jr., to General Dynamics Corporation. Means and method for waterproofing strain gauges. 3,445,800, 5-20-69, Cl. 338-2.
Amburgey, Floyd D. Variable shape reflector. 3,471,860, 10-7-69, Cl. 343-915.
AMCA Pharmaceutical Laboratories Ltd.: *See—*
Johnson, Clarence, 3,478,771.
Amchem Products, Inc.: *See—*
Gardner, George S., 3,466,192.
Heller, Ferdinand P., 3,432,270.
Kirch, John H., 3,466,163.
Moll, Karl, 3,481,877.
Reinhold, Earl R., 3,468,724.
Steinbrecher, Lester, 3,425,876.
Waldrum, John E., 3,445,065.
Amco Wire Products Corp.: *See—*
Jaffee, Robert D.; Mark, Irving L.; and Downer, Darrell L., 3,442,397.
Ameer, George A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,458,702.
Amelio, Armand F.: *See—*
Shohet, Herbert N.; Amelio, Armand F.; House, Richard L.; and Kowalonek, John M.,3,449,891.
Amemiya, Kinya; and Endo, Koichi, to Konishiroku Photo Industry Co., Ltd. Photographic copying device. 3,481,670, 12-2-69, Cl. 355-66.
Amemiya, Mitsuo: *See—*
Takahashi, Miyao; Ito, Yukihiko; Yamada, Katsunori; and Amemiya, Mitsuo,3,483,061.
Amemiya, Yoichi: *See—*
Inaba, Seiuemon; Kojima, Toshio; and Amemiya, Yoichi,3,483,406.
Inaba, Seiuemon; Shirafuji, Ryoko; Kojima, Toshio; and Amemiya, Yoichi,3,469,123.
Amendt, Leroy E.: *See—*
Wiley, Franklyn L.; and Amendt, Leroy E.,3,434,113.
Ament, Myron J.; and Holycross, Frank R., Jr., to Wallace-Murray Corporation. Toilet tank lever assembly. 3,426,365, 2-11-69, Cl. 4-67.
Amerace Esna Corporation: *See—*
Heenan, Sidney A., 3,485,148.
Matheis, Kenneth J., 3,480,792.
Rogers, Roland T., 3,443,118.
Rogers, Roland T., 3,444,538.
Smith, Morris G., Jr., 3,427,681.
American Abrasive Company: *See—*
Steinberg, Israel V., 3,423,195.
American Air & Power Company: *See—*
Scott, Joseph J., 3,424,039.
American Air Filter Company, Inc.: *See—*
Cole, Saxon, 3,480,029.
Copenhefer, John E.; and Heh, George J., 3,459,613.
Dahlem, Francis E., 3,421,297.
Dahlem, Francis E.; and Gonzalez, Don J., 3,464,563.
Engleman, Donald E., 3,438,117.
Ernst-Schraner, Theodor, 3,432,999.
Fields, Walter M., 3,464,185.
Gaines, William C., Jr., 3,440,807.
Getzin, Allan R., 3,467,257.
Gold, Harold E.; and Hammann, Paul E., 3,464,487.
Heh, George J., 3,476,635.
Hubbard, Arthur F., 3,425,756.
Hyatt, Philip L., 3,434,269.
Jackson, Robert L., Jr., 3,438,587.
McMakin, Dwight M., 3,472,001.
Mutchler, Paul A., 3,425,634.
Norton, John P., 3,430,453.
Pike, Daniel E., 3,460,819.
Revell, Alan E., 3,467,797.
Rivers, Richard D.; and York, Jimmie D., Jr., 3,460,322.
Selhost, Dale L., 3,438,181.
Sexton, Robert W.; and Akers, George J., 3,434,700.
Smith, Tom R., 3,479,803.
Sylvan, Stig G., 3,425,238.
American Allsafe Company: *See—*
Militello, James V., 3,484,156.
American Allsafe Company, Inc.: *See—*
Militello, James V., 3,466,664.
American Aluminum Company: *See—*
Brucker, Henry J.; and Jenkins, Bernard M., 3,428,209.
American Aluminum Window Corp.: *See—*
Levine, Sidney, 3,442,052.
American Aniline Products, Inc.: *See—*
Genta, Guido R., 3,426,047.
Genta, Guido R., 3,428,411.
Genta, Guido R., 3,439,002.
Humphreys, Victor T.; and Bianco, Joseph, 3,484,180.
Zanella, Dominic A., 3,428,659.
Zanella, Dominic A., 3,480,681.
American Artists Group, Inc.: *See—*
Versh, Abraham, 3,483,967.
American Baler Company, The: *See—*
Seltzer, Robert E., 3,467,000.
American Bank Note Company: *See—*
Chrastil, Alois; Ferguson, Roger W.; and Williams, Kenneth R., 3,484,323.
D'Amato, Salvatore F.; Williams, Kenneth R.; and Guertin, Clifford D., 3,483,772.
Guertin, Clifford D.; and D'Amato, Salvatore F., 3,474,011.
American Biltrite Rubber Co., Inc.: *See—*
Barchi, Henry J.; Ferguson, Donald C.; and Smith, Merrill M., 3,465,384.
Bleher, William C., 3,429,761.
Rothermel, Edward M., 3,459,400.
American Binder Company, The: *See—*
Sutton, Charles O., 3,450,307.
American Bosch Arma Corporation: *See—*
Chmura, Theodore S., 3,434,667.
Jewell, Wendell D.; Nevala, Lloyd A.; and Korn, Frederick, 3,434,352.
Litman, Bernard; Silvia, Everett R.; and Stabile, Christopher, 3,479,888.
Rosenberg, Merton I.; and Kimberley, John A., 3,435,395.
Weiss, Paul C., 3,434,390.
American Brattice Cloth Corporation: *See—*
Turner, James K., 3,441,655.
American Caduceus Industries, Inc.: *See—*
Burnhill, Michael Seth, 3,477,430.
American Can Company: *See—*
Adams, James William; and Hoftiezer, Henry Wilbert, 3,467,609.
Asman, Norman John, 3,460,739.
Asman, Norman John, 3,462,065.
Asman, Norman John, 3,476,304.
Asman, Norman John, 3,476,305.
Balocca, Alfred Edward, 3,441,167.
Bofinger, Karl; Borkmann, Frank Frederick; and Stone, George Martin, 3,441,156.
Chittenden, Richard Marion; and Ecklund, Oscar Frederick, 3,428,722.
Corrinet, Andrew Lucien, 3,420,927.
Fink, Edwin Harold, 3,483,722.
Fisher, Charles Donald, 3,457,156.
Foster, William Vivian, 3,446,103.
Gerhardt, Robert Frank, 3,423,215.
Gruentzel, Richard A.; and Harris, Peter D., 3,485,437.
Hall, Charles J., 3,462,020.
Hawley, Harry R., 3,485,412.
Honeiser, Vladimir Paul, 3,484,654.
Kaiser, Edward William; Rein, Arnold Robert; and Wahler, Richard Otto, 3,481,809.
La Croce, Leonard Thomas; and Batchelar, Raymond Luscombe, 3,430,802.
LaCroce, Leonard Thomas, 3,486,665.
Langen, Jacobus Joseph; Langen, Marinus Jacobus Maria; and Topler, Ernest, 3,461,642.
Magruder, William R.; Sixt, Marty E.; and Steiner Roger H., 3,448,648.
Marks, Ronald H., 3,426,891.
Marks, Ronald H.; Goodman, Lawrence R.; Stokes, Luther E.; and Millard, Roy H., 3,446,041.
Metzler, Charles Lewis; Holzwarth, Henry Albert; and Wark, John Duncan, 3,441,192.
Meyer, George Leroy, 3,484,036.
Meyers, George L., 3,469,999.

Meyers, George Leroy, 3,469,767.
Muehling, Charles Lloyd; and Wilkinson, Harlen Edgar, 3,483,964.
Mueller, David Charles, 3,469,765.
Nerod, Irving, 3,441,065.
Pobiner, Harvey, 3,468,622.
Rein, Arnold Robert, 3,432,375.
Rouse, John Wilson, 3,422,983.
Rouse, John Wilson; and Simmons, Harley Earl, 3,478,917.
Skowronski, George Victor, 3,476,236.
Spaulding, Harold Ernest, 3,431,702.
Stenger, Hans G., 3,432,586.
Stenger, Hans G., 3,466,702.
Watt, William Russell, 3,449,263.
White, Arthur John, 3,441,197.
Zames, Ira, 3,427,934.
Zundel, Arthur Philip, 3,478,918.

American Chain & Cable Company, Inc.: *See*—
Bishop, Leonard J., 3,451,353.
Dodds, Gerald C.; Karlstrom, Karl R. M.; and Kort, Werner W., 3,467,023.
Dolding, Walter R., 3,477,390.
Gilmore, William J.; and Peterson, Vincent C. J., 3,465,743.
Harrison, Homer S., 3,454,148.
Klamp, Paul, 3,477,388.
Krieger, Herbert B.; and Wilson, Kenneth A., 3,482,644.
Mesler, Lilburn L., 3,477,474.
Moro, Dominik J., 3,455,593.
Pean, Fred E., 3,443,525.
Peterson, Vincent C. J., 3,430,897.
Siff, Elliott J.; and Schaffer, Irving, 3,436,706.
Titmas, John E., Jr., 3,456,773.

American Colloid Company: *See*—
Clem, Arthur G., 3,466,827.
Clem, Arthur G., 3,467,172.
Kelly, Edgar J., 3,473,788.

American Components Incorporated: *See*—
Wellard, Charles L.; and Douglass, Walter H., Sr., 3,475,714.

American Cyanamid Company: *See*—
Abbey, Anthony; Fortenbaugh, Robert Berendt; and Klothen, Irving, 3,427,166.
Addor, Roger Williams, 3,449,493.
Addor, Roger Williams, 3,467,672.
Addor, Roger Williams, 3,470,207.
Addor, Roger Williams, 3,476,837.
Addor, Roger Williams, 3,484,455.
Angier, Robert Bruce; Murdock, Keith Chadwick; and Clark, Joe Haller, 3,459,861.
Arcano, Stephen; and Barber, William Austin, 3,457,116.
Arlt, Herbert George, Jr.; and Myatt, Charles Oliver, 3,438,918.
Backlund, Gerald Richard; Martino, Joseph Francis; and Divine, Ralph Dettmer, 3,463,841.
Baitinger, William Frederick, Jr., 3,429,732.
Baitinger, William Frederick, Jr., 3,470,131.
Barber, William Austin, 3,440,107.
Beachem, Michael Thomas, 3,431,140.
Benjamin, Lawrence Elnathan; and Stafiej, Stanley Frank, 3,475,491.
Bennett, Robert Putnam; and Davis, Stanley Myron, 3,467,688.
Berenson, Herman; Dornbush, Albert Carl; and Wehner, Donald Clifford, 3,432,341.
Berkelhammer, Gerald; and Asato, Goro, 3,452,035.
Bollyky, Laszlo Joseph; and Whitman, Robert Henry, 3,442,813.
Bollyky, Laszlo Joseph, 3,442,816.
Booth, Robert Ben, 3,425,802.
Booth, Robert Ben; and Mead, Linda Clarendon, 3,463,730.
Bott, George S., 3,437,471.
Bova, Joseph Don; and Engel, Harry Charles, 3,458,385.
Bristol, Alexander Christian, 3,457,104.
Brooks, Robert Bruce, 3,480,582.
Brown, John Johnston; and Hardy, Robert Allis, Jr., 3,474,102.
Brown, John Johnston; and Hardy, Robert Allis, Jr., 3,474,103.
Brown, Michael; and Dickie, Donald Landrine, 3,477,192.
Brownfield, Robert Bruce, 3,464,980.
Buck, Francis Fremonte; and De Renzo, Edward Clarence, 3,434,929.
Buckler, Sheldon; and Epstein, Martin, 3,454,650.
Bullock, Milon W.; and Rohrbacher, George H., Jr., 3,435,100.
Bullock, Milon Walker, 3,463,786.
Cabasso, Victor Jack, 3,422,188.
Cabasso, Victor Jack; Stebbins, Max Raymond; and Frazza, Everett Joseph, 3,455,782.
Cabasso, Victor Jack, 3,468,758.
Callahan, John C., 3,480,014.
Cannelongo, Joseph Frederick, 3,422,047.
Cannelongo, Joseph Frederick, 3,422,048.
Carvalho, Dorothy Ann; Hauser, Martin; Schriffert, Edward John; and Sprague, George Sidney, 3,431,151.
Carvalho, Dorothy Ann Livingston, 3,475,138.
Casebolt, George Sims, 3,454,529.
Castellion, George Augustus, 3,425,943.
Castellion, George Augustus, 3,425,945.
Castellion, George Augustus, 3,454,370.
Chamberlain, Ralph Joseph, 3,438,806.
Chamberlain, Ralph Joseph; and Nagy, Daniel Elmer, 3,438,970.
Chamberlain, Ralph Jseph, 3,483,184.
Chen, Catherine S. H.; Hosterman, Evalyn F.; and Stamm, Robert F., 3,423,161.
Chirgwin, Lester Daniel, Jr., 3,422,181.
Chirgwin, Lester Daniel, Jr., 3,443,009.
Chomitz, Nicholas; Lindsley, John Francis; and Price, Charles D., 3,451,102.
Chopard, Perre-Antoine; and Searle, Robert J. G., 3,424,799.
Church, Robert Fitz Randolph; Kende, Andrew Steven; and Weiss, Martin Joseph, 3,438,973.
Church, Robert Fitz Randolph; and Weiss, Martin Joseph, 3,459,752.
Coscia, Anthony Thomas, 3,426,068.
Cross, George Abraham, 3,423,258.
Cross, George Abraham; and Rishel, James Paul, 3,471,347.
Csapilla, Joseph, 3,470,211.
D'Errico, Michael Joseph; and Kulick, Russell Joseph, 3,433,658.
D'Errico, Michael Joseph; and Wagner, Frank Larkin, 3,433,659.
Davis, Arnold Rogers, 3,438,916.
Davis, Stanley M., 3,438,813.
Davis, Stanley M.; Voorhies, John D.; and Schurdak, Edward J., 3,468,708.
Davis, Stanley Myron; Kraebel, Charlotte Marie; and Parent, Richard Alfred, 3,481,792.
DeLapp, Darwin Fiske; and Deichert, William George, 3,431,321.
Derenzo, Edward Clarence; and Bell, Paul Hadley, 3,444,045.
DiLeone, Roland Ralph, 3,471,442.
DiLeone, Roland Ralph, 3,472,875.
Divine, Ralph Dettmer, 3,440,305.
Dobransky, Robert Alan, 3,428,479.
Donaldson, Malcolm Macfarland; and Morris, Adolph Roy, 3,421,927.
Donaldson, Malcolm Macfarland; and Morris, Adolph Roy, 3,428,478.
Drain, James Joseph, 3,472,934.
Duda, William J., 3,430,476.
Duffy, Richard Joseph; and De Maria, Francesco, 3,483,286.
Dundon, John Peter, 3,465,036.
Duryea, William James; and Bott, George Spencer, 3,468,520.
Dusza, John Paul; Joseph, Joseph Peter; and Bernstein, Seymour, 3,483,232.
Ebel, Robert Henry; Adler, Stephen Fred; and Keggi, Janis J., 3,421,837.
English, Jackson Pollard; Hickman, John Bibb; and Gilbert, Richard Lapham, Jr., 3,467,496.
Epstein, Martin; Buckler, Sheldon A.; Sherr, Allan Ellis; and Gillham, Helen Currier, 3,459,833.
Falvey, John Joseph, 3,464,551.
Forgione, Peter Salvatore, 3,431,278.
Foster, Walter Henry, Jr.; Dowd, John Mark, Jr.; and Coleman, Ralph Arthur, 3,475,339.
Fraioli, Anthony Vincent, 3,475,226.
Freeman, Mark Phillips, 3,449,072.
Freeman, Mark Phillips; and Halverson, Frederick, 3,473,027.
Freyberger, Wilfred Lawson, 3,469,692.
Gillham, Helen Currier; and Sherr, Allan Ellis, 3,431,324.
Grayson, Martin, 3,421,834.
Grayson, Martin; Keough, Patricia Tarpey; and Rauhut, Michael McKay, 3,452,099.
Gruber, Arnold Harvey; Moore, Sewell Trezevant; and Light, Charles Ellsworth, 3,455,643.
Haacke, Gottfried; and Beegle, Lindley Clair, 3,448,053.
Hanifin, John William, Jr.; Capuzzi, Rosemary Angela; and Cohen, Eliott, 3,470,186.
Hansen, Lloyd F., 3,465,496.
Hardy, William Baptist; and Bennett, Robert Putnam, 3,461,149.
Hardy, William Baptist; and Bennett, Robert Putnam, 3,467,687.
Hardy, William Baptist; and Bennett, Robert Putnam, 3,467,694.
Hauser, Martin, 3,421,955.
Hauser, Martin; and Sprague, George Sidney, 3,431,152.
Henderson, Norman Leo; and Elowe, Louis Nasir, 3,427,378.
Herbes, William Frank; and Dundon, John Peter, 3,442,905.
Highley, Derek Rowland; and Ellenbogen, Leon, 3,434,927.
Hlavka, Joseph John; and Bitha, Panayota, 3,455,800.
Hoffman, Joseph Adrian, 3,436,387.
Hoffman, Joseph Adrian, 3,438,984.
Hoffman, Joseph Adrian, 3,445,457.
Hoffmann, Arthur Kentaro; and Abraham, Ernestine Gelblum, 3,422,144.

Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones, 3,444,169.
Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones, 3,458,516.
Huffman, Kenneth Robert; and Ullman, Edwin Fisher, 3,444,212.
Innes, William Beveridge, 3,438,721.
Innes, William Beveridge, 3,449,086.
Innes, William Beveridge; and Michael, Malden Ward, 3,459,681.
Joseph, Joseph Peter; Dusza, John Paul; and Bernstein, Seymour, 3,449,321.
Joyner, Austin; and Piercy, Charles Knoefel, 3,454,697.
Kaplan, Earl, 3,462,392.
Kazan, John, Jr., 3,485,764.
Klein, Harvey Gerald; and Sherr, Allan Ellis, 3,468,982.
Klingsberg, Erwin, 3,485,860.
Klothen, Irving; Fortenbaugh, Robert Berendt; and Abbey, Anthony, 3,434,844.
Kolodny, Edwin Ralph; and Booth, Robert Ben, 3,480,761.
Koral, Jerry Norman; and Petropoulos, John Christos, 3,451,955.
Koral, Jerry Norman, 3,471,388.
Kulick, Russell Joseph; and Strazdins, Edward, 3,445,330.
Lagsdin, Julius Bernard, 3,426,411.
Lamb, Glentworth, 3,448,191.
Lamb, Glentworth, 3,448,199.
Langer, Stanley Harold; and Haldeman, Robert George, 3,475,302.
Langer, Stanley Harold, 3,485,728.
Layman, Ralph Earl, 3,429,857.
Lewis, Benjamin Arthur; Sassiver, Martin Leon; and Shepherd, Robert Gordon, 3,459,747.
Lewis, Charles Edward, 3,434,792.
Lies, Thomas Andrew, 3,449,365.
Lies, Thomas Andrew, 3,449,366.
Littell, Ruddy; and Allen, George Rodger, Jr., 3,449,363.
Littell, Ruddy; Smith, James Miller, Jr.; and Allen, Duff Shederic, Jr., 3,454,587.
Longfield, James Edgar; and Beegle, Lindley Clair, 3,455,659.
Los, Marinus, 3,446,849.
Lovell, James Byron; and Baer, Ronald William, 3,459,856.
Lower, George William, 3,429,694.
Lower, George William, 3,463,710.
Lutz, Albert William; and Magee, Richard Joseph, 3,480,643.
Magee, Richard Joseph, 3,467,734.
Mallen, Mario Salazar, 3,457,350.
Marks, Alfred Finlay; and Brahm, Armin Wolfgang, 3,439,071.
Marlow, William Henry; Maroney, Matthew Henry; and Stevenson, Samuel Reid, 3,420,282.
Martell, Michael Joseph, Jr.; and Ross, Adma Schneller,, 3,442,943.
Martin, John Henry; Porter, John Norman; and Mitscher, Lester Allen, 3,452,136.
Matsunaga, Yoshio, 3,439,006.
Matsunaga, Yoshio, 3,440,090.
McCormick, Jerry Robert Daniel; Joachim, Ursula; Jensen, Elmer Raymond; and Sjolander, Newell Oscar, 3,431,303.
McCormick, Jerry Robert Daniel; and Sjolander, Neel Oscar, 3,433,709.
McCormick, Jerry Robert Daniel; Johnson, Sylvia Jennie; and Sjolander, Newell Oscar, 3,433,710.
Megna, Ignazio Salvatore; and Petropoulos, John Christos, 3,450,711.
Megson, Frederic Houghton; Beachem, Michael Thomas; and Stockel, Richard Frederick, 3,456,010.
Melchore, James Anthony, 3,454,350.
Michael, Malden Ward, 3,429,830.
Michael, Malden Ward, 3,451,947.
Mihal, Frederick France, 3,458,461.
Milionis, Jerry Peter; and Susi, Peter Vincent, 3,485,650.
Miller, Bernard; and Margulies, Howard, 3,476,834.
Miller, Bernard; and Margulies, Howard, 3,480,697.
Miller, Charles Hartley, Jr., 3,458,391.
Mitscher, Lester Allen; and Martin, John Henry Edward James, 3,446,841.
Mogensen, Allan O.; and Naumann, Herbert O., 3,436,448.
Mollica, Joseph Charles; and Singh, Ajaib, 3,468,842.
Montgomery, William Herbert, 3,474,898.
Mooser, Emanuel; and Brebner, John Low, 3,443,141.
Mosby, William Lindsay, 3,424,764.
Mosby, William Lindsay, 3,429,895.
Mosby, William Lindsay, 3,429,905.
Mosby, William Lindsay; Gillham, Helen Currier; and Sherr, Allan Ellis, 3,439,005.
Murdoch, Henry Drummond, 3,483,238.
Nakagawa, Kazumi; and Kuratani, Keijiro, 3,483,576.
Nargund, Pandurang Krishnacharya, 3,461,143.
Nash, Robert Arnold; and Haeger, Bruce Edwin, 3,457,348.
O'Brien, Samuel James; and Van Loo, William Julius, Jr., 3,458,989.
Onifer, Michael John, Jr.; and Smith, Arthur Alfred, 3,468,346.
Pajak, Theodore Peter; Barsam, Edward Wesley; and Moll, Bishop Joseph, 3,466,733.
Papp, Grace Peters; and Clapp, James Wellington,, 3,429,907.
Papp, Grace Peters; and Clapp, James Willington, 3,443,924.
Patterson, Ernest Leonard; Whaley, Howard Arnold; and Ellestad, George Alfred, 3,452,051.
Paul, Albert Peter, 3,464,886.
Petropoulos, John Christos; and Koral, Jerry Norman, 3,422,076.
Petropoulos, John Christos; and Di Leone, Roland Ralph, 3,444,184.
Pontelandolfo, Joseph John, 3,470,095.
Prescott, William Benjamin; and Lawrence, Henry C., 3,459,480.
Querry, Merle Vernon, 3,449,316.
Raab, Regis, 3,441,436.
Rabinowitz, Robert, 3,444,233.
Ramsey, Wallace Burton; and De Lapp, Darwin Fiske, 3,421,928.
Rauhut, Michael M.; Borowitz, Grace B.; and Grayson, Martin, 3,422,149.
Rauhut, Michael McKay; and Kennerly, George Warren, 3,425,949.
Rauhut, Michael McKay; and Bollyky, Laszlo Joseph, 3,442,815.
Reilly, Thomas Joseph, 3,453,777.
Remers, William Alan; and Weiss, Martin Joseph, 3,444,174.
Remers, William Alan; and Weiss, Martin Joseph, 3,455,943.
Remley, Kenneth Herald, 3,487,088.
Ritson, Daniel Dickerson; Frazier, Charles; and Coscia, Anthony Thomas, 3,438,794.
Robbins, Woodrow Wilson, 3,438,963.
Roberts, George Leathwhite; Hoelscher, Harold Ewald; and Cauwenberg, Winfred Joseph, 3,424,561.
Safir, Sidney Robert; and Williams, Richard Preston, 3,454,565.
Sandhage, Ellsworth Roland; and Taylor, Arthur Sinclair, 3,420,743.
Saunders, Kenneth Worden; and O'Connor, Michael Niall, 3,442,879.
Schaub, Robert Eugene; Kissman, Henry Marcel; and Weiss, Martin Joseph, 3,440,243.
Schaub, Robert Eugene; and Weiss, Martin Joseph, 3,483,236.
Schmidt, Richard Frederick, 3,451,960.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert, 3,435,008.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert, 3,442,871.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert, 3,457,280.
Schmitt, Edward Emil; and Polistina, Rocco Albert, 3,463,158.
Schmitt, Edward Emil; and Polistina, Rocco Albert, 3,468,853.
Schmitt, Joseph Michael, 3,445,544.
Schmitt, Joseph Michael, 3,459,834.
Scotti, Frank, 3,436,461.
Sedlak, John Andrew, 3,475,507.
Seeger, Doris Ruth; and Tomcufcik, Andrew Stephen, 3,446,812.
Sheehan, Desmond; and Clarke, Rose Ann, 3,431,264.
Sheehan, Desmond, 3,442,814.
Sheehan, Desmond, 3,470,103.
Siegel, Lester Aaron, 3,482,095.
Siegel, Lester Aaron, 3,486,006.
Siegele, Frederick Herman; Ondera, Emil Vincent; and Liberatore, Michael Angelo, 3,434,970.
Siegele, Frederick Herman, 3,477,512.
Simpson, Robert Alan; Rishel, James Paul; and Cross, George Abraham, 3,423,257.
Simpson, Robert Alan, 3,442,728.
Simpson, Robert Alan; Cross, George Abraham; and Rishel, James Paul, 3,454,438.
Skrivan, Joseph Francis, 3,481,693.
Smith, Raymond John Dunsford, 3,442,648.
Starer, Ira; and Lindaw, Arthur Clarence, 3,435,010.
Starer, Ira; and Cornell, Henry William, 3,459,689.
Steigman, Joseph; and Chiccarelli, Fortunato Stephen, 3,457,256.
Strazdins, Edward, 3,463,768.
Susi, Peter Vincent; and Coleman, Ralph Arthur, 3,440,257.
Susi, Peter Vincent; and Arthen, Frank Joseph, Jr., 3,445,440.
Susi, Peter Vincent; and Weston, Norman Ann, 3,484,467.
Szumski, Stephen Aloysius; and Uhl, Herbert Bennett, 3,470,011.
Taylor, Arthur S.; and Sandhage, Ellsworth R., 3,439,588.
Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, 3,453,804.
Thelin, Jack Horstmann, 3,441,548.

Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M., 3,468,892.
Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M., 3,481,935.
Tomcufcik, Andrew Stephen; Hoffman, Arlene May; and Fabio, Paul Frank, 3,452,034.
Tonnies, Frank Nicholas, 3,477,654.
van den Hende, Johannes Henricus, 3,483,551.
van Loo, William Julius, Jr.; and De Paolo, George Robert, 3,424,680.
van Loo, William Julius, Jr., 3,431,271.
Vartanian, Richard Dickran, 3,445,385.
Vincent, James G., Jr.; Hansen, Lloyd Frank; Yen, Ernest Chu; Taylor, Arthur Sinclair; Bott, George Spencer; and Greif, Martin, 3,436,453.
Voorhies, John Davidson; and Landi, Henry Patrick, 3,462,307.
Wehner, Donald Clifford, 3,433,737.
Welcher, Richard Parke, 3,431,267.
Wiesner, George Leonard, 3,485,808.
Wilkinson, Raymond George; and Shepherd, Robert Gordon, 3,463,861.
Williams, Bernard Leo; and Dorion, George Henry, 3,451,816.
Winterbottom, Robert; and Sassiver, Martin Leon, 3,423,457.
Winterbottom, Robert; Bitha, Panayota; and Kissman, Henry Marcel, 3,433,834.
Wood, Irwin Boyden; Rohrbacher, George Henri, Jr.; and Bambury, Ronald Edward, 3,444,299.
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,446,816.
Wright, William Blythe, Jr., 3,454,579.
Wright, William Blythe, Jr., 3,465,080.
Wright, William Blythe, Jr., 3,474,090.
Wright, William Bylthe, Jr.; and Brabander, Herbert Joseph, 3,459,757.
Wystrach, Vernon Paul; Lenick, Richard Vincent; and Murray, Michael Albert, 3,464,869.
Zambrano, Ronald Theodore, 3,483,251.
Zingerman, Joel Ronald, 3,427,182.
Zingerman, Joel Ronald; and Elowe, Louis Nasir, 3,431,138.

American Design and Development Corporation: *See—*
Ehrenzeller, Wesley S.; and Call, Donald H., 3,456,604.
Ehrenzeller, Wesley S.; and Call, Donald H., 3,460,489.

American Dish Service of Kansas City Missouri, Inc.: *See—*
Tuthill, John B., 3,478,757.

American District Telegraph Company: *See—*
Hube, Arthur B., 3,448,442.
Pearson, Howard; and Busch, Willi A., 3,444,544.

American Drill Bushing Company: *See—*
Luebbert, William K.; Geen, Joseph H.; and Roberts, Larry P., 3,471,186.

American Drilling & Boring Co., Inc.: *See—*
Guild, Charles L.; and Goodman, Willard B., 3,446,293.

American Dynamics International, Incorporated: *See—*
Packo, Joseph J., 3,483,735.

American Electric Maufacturing Corporation: *See—*
Starr, George N., 3,483,365.

American Electronic Laboratories, Inc.: *See—*
Levy, Murray N., 3,447,078.
Ryan, Thomas J., 3,431,494.
Ryan, Thomas J., 3,458,814.

American Enka Corporation: *See—*
Bowers, Virginia S.; Breazeale, Francis B.; and Rice, Charles M., 3,435,607.
De Bruin, Hendrik, 3,446,446.
de la Bretoniere, Andre Benoit, 3,441,702.
De Ruig, Jan Robert, 3,445,999.
Dost, Sieme; and Duncker, Michiel J., 3,447,213.
Eshuis, Jannes, 3,479,810.
Eskridge, Brewster B.; Fisher, Francis J.; Moore, Jackson A.; and Rhash, Dewaine A., 3,461,521.
Fontijn, Wilhelmus J.; and van Drunen, Korstiaan J. M., 3,447,308.
Gruitroy, Willem; and Raaden, Dirk J., 3,443,419.
Heijnis, James W. I., 3,420,185.
Heijnis, James W. Ij., 3,472,107.
Jacobs, Jacques M. H.; Hermsen, Andreas A. M.; Hendriks, Aalbert J.; and Teeling, Gerhardus A. M., 3,423,076.
Kalbfleisch, Hendrik J., 3,449,794.
Korzilius, Adrianus K. G., 3,486,369.
Kroes, Gerardus H., 3,455,645.
Laumen, Heinrich; Steinbrech, Hermann; and Lochbuhler, Udo, 3,460,227.
Lindsley, Charles H., 3,439,168.
McNeely, Senate W.; and Montgomery, Hoyt G., 3,439,535.
Mertens, Johan J., 3,431,716.
Reichert, Otto; Heuer, Kurt; Grotjahn, Heinz; and Wendlandt, Hans George, 3,420,814.
Rice, Charles M., 3,435,603.
Robertson, Jack Sutton, 3,472,016.
Rodermund, Robert E.; Fowler, Vance G.; and Denning, David B., 3,426,521.
Sluijters, Robert, 3,439,382.
Smit, Hendrikus Jan; Hollweg, Antonius J. F.; and Jonker, Jacobus Johannes, 3,485,030.
Stelwagen, Willem; and Hoekstra, Jan J. J., 3,461,518.
Stevens, Antonius T., 3,472,221.
Van Bergeijk, Jan, 3,450,679.
Van Den Biggelaar, Paul V. M., 3,479,692.
van der Schee, Bernard L. A., 3,462,129.
van der Schee, Bernard L. A.; and Zandstra, Bertus H., 3,486,864.
Van Heuvelen, Johannes J., 3,425,787.
Zaadnoordijk, Gottlieb Lebrecht, 3,457,136.

American Export Isbrandtsen Lines, Inc.: *See—*
Dluhy, Herbert, 3,481,298.
Miller, George Reynolds, 3,468,437.

American Factors Associates, Limited: *See—*
Dunn, Wendell E.; Lucas, Ned L.; and Price, Frank B., 3,455,176.
Silver, Harold F.; and Price, Frank B., 3,431,839.
Silver, Harold F.; Steele, Clarence R.; and Price, Frank B., 3,443,905.
Steele, Clarence R.; and Allen, Norval F., 3,425,561.

American Feather Products, Inc.: *See—*
Schuckman, Meyers, 3,443,267.

American Felt Company: *See—*
Wrotnowski, Arthur C.; and Smith, Edward A., 3,464,561.

American Fiber-Velope Mfg., Co.: *See—*
Hochfeld, Henry J., 3,434,400.

American Filtrona Corporation: *See—*
Berger, Richard M.; Sproull, Reavis C.; and Holden, Herbert K., 3,455,766.
Holden, Herbert K., 3,456,386.

American Flange & Manufacturing Co., Inc.: *See—*
David, Charles; and Wheaton, Herbert F., 3,470,667.
Greck, Eugene, 3,437,343.
Greck, Eugene; and Kokinda, George, 3,445,262.
Helwig, Halsey R., 3,437,226.
Kavalus, Leonard S.; and Lenarcik, Henryk, 3,449,987.
Koll, Stanley J.; and Moller, Thomas G., 3,446,382.
Koll, Stanley J.; and Rocus, John M., 3,460,311.
Koll, Stanley J., 3,477,603.
Laurizio, Jeremiah, 3,434,620.
Laurizio, Jeremiah, 3,458,080.
Laurizio, Jeremiah, 3,458,084.
Sciamonte, Philip A.; and Rezner, Peter, 3,468,013.
Wolf, Edward M.; and Koll, Stanley J., 3,434,266.

American Foods Machinery Corporation: *See—*
Pontecorvo, Nicholas E.; and Shaffer, Wilfred A., 3,445,241.

American Gage & Machine Company: *See—*
Hosker, Gerald R., 3,467,960.

American Gas Association, Inc.: *See—*
De Werth, Douglas W., 3,435,816.
Macriss, Robert A.; Weil, Sanford A.; and Rush, William F., 3,458,445.
Perry, Edward H., 3,437,085.
Ward, Raymond G.; and Witzky, Julius E., 3,425,399.
Zielinski, Robert J., 3,445,172.
Zielinski, Robert J.; and Metzger, David P., 3,477,797.

American Greetings Corporation: *See—*
Hotter, Joe M., 3,480,500.
Pacza, John, 3,461,023.
Rosenstein, Jerry M., 3,457,131.

American Hoechst Corporation: *See—*
Grimmel, Harry W.; and St. Alban, Jonas, 3,445,451.
Remy, Karl Hermann, 3,442,887.

American Hoist & Derrick Company: *See—*
Brown, Archer W.; Montgomery, James L.; and Beer, Walter A., 3,460,645.
Crook, Edward J., Jr., 3,453,822.
Parsons, Walter M., 3,471,041.
Williamson, Archie O.; Takata, Harry H.; and Gfroerer, Gerald T., 3,483,806.

American Home Products Corporation: *See—*
Adams, Arthur C., 3,479,338.
Adams, Arthur C.; and Deist, Robert P., 3,487,073.
Alburn, Harvey E.; and Grant, Norman H., 3,455,783.
Alburn, Harvey E.; and Grant, Norman H., 3,455,784.
Archibald, John L., 3,429,885.
Archibald, John L., 3,431,268.
Archibald, John L., 3,445,472.
Archibald, John L.; and Freed, Meier E., 3,458,515.
Archibald, John L.; and Freed, Meier E., 3,471,499.
Bagli, Jehan F.; and Bogri, Tibor, 3,432,541.
Bagli, Jehan F.; and Bogri, Tibor, 3,455,992.
Bell, Stanley C.; and Gochman, Carl, 3,423,459.
Bell, Stanley C., 3,441,607.
Bell, Stanley C., 3,445,458.
Bell, Stanley C., 3,449,337.

Bell, Stanley C.; and Conklin, George L., 3,452,041.
Bell, Stanley C.; and Conklin, George L., 3,458,501.
Bell, Stanley C., 3,459,754.
Bell, Stanley C., 3,468,878.
Bell, Stanley C., 3,471,483.
Bell, Stanley C.; and Wei, Peter H. L., 3,471,497.
Bell, Stanley C.; and Wei, Peter H. L., 3,475,432.
Bruderlein, Francois T., 3,452,050.
Bruderlein, Francois T., 3,472,878.
Buzby, George C., Jr.; and Smith, Herchel, 3,452,008.
Buzby, George C., Jr.; and Smith, Herchel, 3,470,215.
Buzby, George C., Jr.; and Smith, Herchel, 3,474,115.
Buzby, George C., Jr.; Smith, Robert C.; and Smith, Herchel, 3,479,376.
Childress, Scott J.; and Sallay, Stephen I., 3,452,029.
Childress, Scott J.; and Archibald, John L., 3,462,440.
Childress, Scott J.; and Sallay, Stephen I., 3,481,930.
Clark, Donald E.; and Grant, Norman H., 3,471,475.
Davis, Martin A.; and Campbell, David J., 3,436,397.
Davis, Martin A.; and Campbell, David J., 3,436,398.
Davis, Martin A.; and Dobson, Thomas A., 3,462,457.
Davis, Martin A., 3,475,485.
Davis, Martin A.; and Dobson, Thomas A., 3,487,075.
Dobson, Thomas A.; and Davis, Martin A., 3,426,015.
Dobson, Thomas A.; and Davis, Martin A., 3,458,518.
Dvonch, William; and Alburn, Harvey E., 3,453,263.
Fenichel, Richard L.; and Alburn, Harvey E., 3,475,534.
Ferland, Jean-Marie; and Lefebvre, Yvon, 3,451,994.
Ferland, Jean-Marie; and Lefebvre, Yvon, 3,462,413.
Foell, Theodore J.; Rees, Richard W.; and Smith, Herchel, 3,455,909.
Freed, Meier E.; and Archibald, John Leheup, 3,459,770.
Freed, Meier E; and Archibald, John L., 3,462,441.
Georgiadis, Minas P.; and Humber, Leslie G., 3,455,933.
Gettig, William A.; and Gettig, Joseph H., 3,470,671.
Grant, Norman H.; Alburn, Harvey E.; and Fenichel, Ricard L., 3,481,917.
Grant, Norman H.; Alburn, Harvey E.; and Clark, Donald E., 3,487,105.
Greenspan, George; Ruelius, Hans W.; and Alburn, Harvey E., 3,453,179.
Groth, Glen L., 3,438,506.
Hays, Merlin B., 3,432,391.
Herbst, David R., 3,481,953.
Herbst, David R., 3,487,091.
Hobbs, Norman L., 3,435,835.
Hughes, Gordon A.; and Smith, Herchel, 3,479,435.
Hughes, Gordon Alan; and Smith, Herchel, 3,459,778.
Humber, Leslie G., 3,472,869.
Humber, Leslie G., 3,476,750.
Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel, 3,462,459.
Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel, 3,467,676.
Koo, Charles M. C.; Pattison, Thomas W.; and Herbst, David R., 3,458,498.
Kruger, Gunter; Sehgal, Surendra N.; and Vezina, Claude, 3,471,530.
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude, 3,445,338.
Kruger, Gunther; and Marshall, David J., 3,462,424.
Kruger, Gunther; and Marshall, David J., 3,471,479.
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude, 3,471,527.
Kruger, Gunther, 3,472,880.
Kruger, Gunther, 3,472,883.
Laliberte, Real; and Campbell, David, 3,455,984.
Laliberte, Real, 3,462,449.
Langis, Andre L., 3,452,040.
Langis, Andre L., 3,456,000.
Langis, Andre L., 3,456,011.
Lapidus, Milton; and Fagan, Raymond, 3,427,383.
Lapidus, Milton, 3,478,145.
Ledig, Kurt W.; and Wendt, Gerhard R., 3,471,478.
Ledig, Kurt W.; and Wendt, Gerhard R., 3,479,341.
LeFebvre, Yvon, 3,428,627.
Lefebvre, Yvon; and Ferland, Jean Marie, 3,431,258.
Lefebvre, Yvon; and Ferland, Jean Marie, 3,436,390.
Lefebvre, Yvon, 3,470,161.
Marder, Herman L., 3,420,410.
Marder, Herman L.; and Steckhahn, Frank L., 3,482,737.
Marshall, David J.; and Le Febvre, Yvon, 3,455,906.
Marshall, David J., 3,470,159.
McCaully, Ronald J., 3,446,800.
McCaully, Ronald J.; Bell, Stanley C.; and Russell, Peter B., 3,448,116.
McCaully, Ronald J.; and Bell, Stanley C., 3,474,093.
Myers, Gordon S.; and Mepham, Timothy J., 3,468,896.
Pattison, Thomas W.; and Herbst, David R., 3,478,054.
Plemmons, Dean C., 3,466,296.
Rees, Richard W.; and Smith, Herchel, 3,458,503.
Rees, Richard W.; and Smith, Herchel, 3,475,469.
Rees, Richard W.; Foell, Theodore J.; and Smith, Herchel, 3,479,340.
Robinson, Charles A.; and Nescio, John J., 3,478,018.
Sallay, Stephen, 3,467,673.
Sallay, Stephen, 3,474,100.
Sallay, Stephen I.; and Childress, Scott J., 3,470,187.
Santilli, Arthur A., 3,449,344.
Santilli, Arthur A.; and Kim, Dong H., 3,452,018.
Santilli, Arthur A.; and Osdene, Thomas S., 3,452,037.
Santilli, Arthur A.; and Osdene, Thomas S., 3,457,258.
Stein, Reinhardt P.; Buzby, George C., Jr.; and Smith, Herchel, 3,436,411.
Stein, Reinhardt P.; Buzby, George C., Jr.; Smith, Robert C., Jr.; and Smith, Herchel, 3,465,011.
Stein, Reinhardt P.; Smith, Herchel; and Smith, Robert C., 3,475,468.
Stein, Reinhardt P.; and Smith, Herchel, 3,478,070.
Strike, Donald P.; Herbst, David R.; and Smith, Herchel, 3,452,004.
Sulkowski, Theodore S., 3,423,421.
Sulkowski, Theodore S.; and Mascitti, Albert A., 3,445,476.
Sulkowski, Theodore S.; and Wille, Myles A., 3,452,027.
Sulkowski, Theodore S.; and Mascitti, Albert A., 3,466,297.
Sulkowski, Theodore S.; and Mascitti, Albert A., 3,466,298.
Teller, Daniel M.; Douglas, George H.; and Smith, Herchel, 3,465,009.
Tint, Howard, 3,458,621.
Tokolics, Joseph; Hughes, Gordon A.; and Smith, Herchel, 3,483,185.
Vezina, Claude; and Deghenghi, Romano, 3,476,779.
Wei, Peter H. L.; and Bell, Stanley C., 3,453,266.
Wei, Peter H. L.; and Bell, Stanley C., 3,453,289.
Wei, Peter H. L.; and Bell, Stanley C., 3,461,122.
Wei, Peter H. L.; and Bell, Stanley C., 3,470,181.
Wei, Peter H. L.; and Bell, Stanley C., 3,475,424.
Wei, Peter H. L.; and Bell, Stanley C., 3,475,426.
Weinstein, Bernard; Terry, Daniel H.; and Jensen, Harold S., 3,429,821.
Wendt, Gerhard R.; and Ledig, Kurt W., 3,431,262.
Wendt, Gerhard R.; and Ledig, Kurt W., 3,452,061.
Wendt, Gerhard R.; and Ledig, Kurt W., 3,458,541.
Wendt, Gerhard R.; and Ledig, Kurt W., 3,458,564.
Wendt, Gerhard R., 3,475,487.
Wendt, Gerhard R.; and Ledig, Kurt W., 3,479,347.
Wendt, Gerhard R.; and Ledig, Kurt W., 3,485,837.
Wilkinson, Robert J.; and Green, John W., 3,467,500.
Wolf, Milton; and Greek, Francis J., 3,445,475.
Wolf, Milton; and Mascitti, Albert A., 3,458,525.
Wolf, Milton; and Sellstedt, John H., 3,470,168.
Wolf, Milton; and Diebold, James L., 3,471,494.

American Hospital Supply Corporation: *See*—
Beich, Frank R., 3,479,671.
Cho, Arthur K., 3,468,951.
Franklin, Donald R. L., 3,482,567.
Goldberg, Allan M., 3,477,437.
Harautunian, Andrew, 3,426,758.
Harautunian, Andrew, 3,452,756.
Hobbs, James C., II; Jones, Alan Richardson; and Schultz, Eugene L., 3,446,400.
Janss, John E.; and Guernsey, Richard H., 3,467,251.
Jones, Alan Richardson; and Schultz, Eugene L., 3,484,024.
Lucas, Victor Grifols, 3,460,752.
Moore, Robert R.; and Eitzen, Vincent E., 3,441,210.
Nielsen, Milton R., 3,466,749.
Pilger, Nicholas J., 3,485,352.
Roberts, Martin, 3,459,188.
Van Noy, Cordell C., Jr., 3,426,449.
Wickett, Byron H., 3,429,311.
Woodbridge, Joseph E., 3,467,499.
Zenick, Raymond G., 3,470,604.

American Hydrocarbon Company: *See*—
Lyon, Lloyd B., 3,422,569.

American Hydrotherm Corporation: *See*—
Brandell, Sol R., 3,443,065.

American Institutes for Research: *See*—
Tallmadge, Guy Kasten, 3,477,145.

American Instrument Co., Inc.: *See*—
Howerton, Hugh K., 3,433,952.
Miller, C. David; Soodak, Charles; and Priarone, Paul, 3,430,864.
Slone, Thomas J., 3,481,709.
Wasilewski, Joseph C., 3,432,271.

American Lecithin Company: *See*—
Sokol, Herbert Z., 3,465,498.

American Liquid Instruments, Inc.: *See*—
Frenkel, Francis, 3,442,017.

American Machine & Foundry Company: *See*—
Beaver, Ruby C.; and Wood, Fenton M., 3,460,028.
Bell, Richard E., 3,437,962.
Benith, Benedict R., 3,461,764.

Blewitt, Roy E., Jr., 3,460,832.
Bogle, Tommy G., 3,478,576.
Buckler, Sheldon A.; Martel, Rock F; and Moshy, Raymond J., 3,472,835.
Clay, Paul Eugene, Jr.; and Tucker, Robert Frederic, 3,442,324.
Conard, Arthur Bayard, Jr., 3,448,824.
Cook, Harold De Poy, 3,423,919.
Crouch, Alfred E.; and Beaver, Ruby C., 3,483,466.
Davidson, Robert W., 3,464,713.
Dearsley, George, 3,472,236.
Elliott, Eugene R., 3,484,537.
Foster, Jack V., 3,434,081.
Froyd, Lawrence W., 3,484,572.
Gamberini, Goffredo, 3,427,782.
Gruss, George A.; Smith, Richard A.; and Infantino, Joseph R., 3,478,134.
Hanold, Paul A., 3,443,047.
Heinzen, Robert A., 3,470,511.
Heinzen, Robert Arthur; and Morley, Edwin Richard, 3,475,630.
Hooper, Harry Allison, 3,477,442.
Hungerford, Max, 3,437,165.
Hungerford, Max, 3,447,399.
Irwin, Jere F., 3,451,192.
Johnson, Roy Bernhard, 3,435,621.
Lind, Carlton Adolph, 3,461,038.
Mahoney, William J., 3,421,152.
Maxwell, Victor W., 3,459,619.
Merenda, Carmine T.; Reich, Adolf F.; and Gustavson, Sterling T., 3,428,051.
Milenkovic, Veljko, 3,460,044.
Moore, Thomas William, 3,484,702.
Morris, Jack; Yuter, Morton Gerald; Rudd, Wallace C.; and Allen, Richard J., Jr., 3,420,976.
Morris, Jack, 3,452,424.
Moshy, Raymond J.; and Germino, Felix J., 3,421,519.
Nellen, William Joseph, 3,461,060.
Patterson, Morehead, 3,428,052.
Petrucci, Raymond Mark; and Barmore, Stephen Barrett, 3,442,390.
Petrucci, Raymond Mark; and Sicard, Marcel Clarence, 3,469,696.
Proctor, Noel B., 3,436,958.
Proctor, Noel B., 3,448,268.
Proctor, Noel B.; and Wood, Fenton M., 3,460,152.
Proctor, Noel B., 3,465,274.
Richert, Walter J., 3,470,510.
Roberts, Sidney, 3,482,073.
Rudd, Wallace C., 3,427,427.
Rulseh, Roger David, 3,452,165.
Saunders, Charles E.; and Saleman, Arthur, 3,435,987.
Saunders, Charles E.; and Olsen, Olaf M., 3,475,069.
Saylor, William P., Jr.; and Childers, Herman M., 3,452,197.
Schwaninger, Claude L., 3,448,296.
Smith, Richard A., 3,482,836.
Stanford, Arthur, 3,436,525.
Stapf, William E., 3,460,087.
Stone, Clarence Robert, 3,460,082.
Williams, John Covington, 3,442,757.
Williamson, William R., 3,420,747.
Wood, Fenton M.; Walters, William T.; Rogers, Philip A.; and Proctor, Noel B., 3,437,810.
Wood, Fenton M.; and Walters, William T., 3,443,211.
Wood, Fenton M., 3,449,662.
Wood, Fenton M., 3,483,734.
Wood, Fenton M., 3,484,682.
Zuercher, John; and Condon, Stanley, 3,479,029.
Zwart, Bernardus Mulder, Jr.; Lukevics, Alfreds Karlis; and Wylie, Harold Franklin, 3,428,001.

American Maize-Products Company: *See*—
Mitan, Frank J.; and Jokay, Louis, 3,427,951.
Mitan, Frank J.; and Cohen, Lawrence R., 3,438,379.
Van Patten, Eric M.; and Powell, Eugene L., 3,422,089.

American Manufacturing Company: *See*—
Robinson, James B., 3,423,561.

American Manufacturing Company of Texas: *See*—
Woodle, Billy Ted, 3,449,936.

American Metal Climax, Inc.: *See*—
Aberle, Richard H.; and Lucas, Robert H., 3,438,228.
Hood, Harold W., Jr., 3,430,683.
Kay, Herbert, 3,466,144.
Larson, Melvin L., 3,429,903.
Muessel, Dan C., 3,466,805.
Segall, Jeane; and Shorr, Leonad M., 3,441,501.
Toney, Henry W.; and Huizenga, Charles B., 3,422,711.

American Metal Products Corporation: *See*—
Epstein, Saul, 3,459,405.
Suffron, Fay O., 3,425,438.

American Meter Company: *See*—
Grace, Edward J.; and Cornforth, Malcolm W., 3,454,037.
Johnson, Dwight N.; and Cameron, Albert R., 3,425,442.
Johnson, Dwight N., 3,482,592.
Johnson, Dwight N.; and Kwast, Theodore E., 3,485,105.
Kruzan, Harold F.; and Hetz, Heinz K., 3,424,194.
Lane, George M., 3,452,359.
Rossi, Lawrence T.; and Wrinkle, Raymond L., 3,427,890.
Schneider, George W., Jr., 3,448,615.
Thrall, Walter I., 3,429,321.
Wrinkle, Raymond L.; and Rossi, Lawrence T., 3,482,446.

American Micro-Systems, Inc.: *See*—
Avery, George E., 3,478,229.

American Motors Corporation: *See*—
Adamson, James C., 3,423,727.
Martens, Jack E., 3,422,574.

American National Valve Corporation: *See*—
Murray, Robert W., 3,451,444.

American Oil Shale Corporation: *See*—
Dixon, Rod P., 3,465,818.
Dixon, Rod P., 3,465,819.

American Olean Tile Company, Inc.: *See*—
Schweiker, Malcolm A.; and Watson, Wayne C., 3,463,695.

American Optical Company: *See*—
Bartfay, Stephen A., 3,470,736.
Beguin, Fred P., 3,461,463.
Davis, John K.; Fernald, Henry G.; and Rayner, Arline W., 3,434,781.
Goldberg Herbert E., 3,447,875.
Gottlieb, Nathan, 3,421,808.
Hovey, Richard J.; and Hoffman, Donald O., 3,440,173.
Kleinerman, Marcos Y., 3,422,023.
Koester, Charles J., 3,421,096.
Koester, Charles J.; and Snitzer, Elias, 3,421,097.
Koester, Charles J.; Dixon, Edgar O.; and Snitzer, Elias, 3,445,785.
Mac Neille, Stephen M., 3,470,491.
Osterberg, Harold, 3,420,596.
Peck, William F., 3,485,609.
Polanyi, Michael L., 3,461,856.
Revoir, William H.; and Gardner, Wesley M., 3,436,352.
Siegmund, Walter P.; and Williams, Noble S., 3,436,142.
Snitzer, Elias; Young, Robert W.; and Woodcock, Richard F., 3,422,025.
Snitzer, Elias, 3,471,215.
Thorburn, Milton R., 3,482,183.
Young, Robert W.; Graf, Robert E.; and Robinson, Charles C., 3,420,601.

American Optical Corporation: *See*—
Anthon, Erik W., 3,450,051.
Anthon, Erik W., 3,484,207.
Bazinet, Wilfred P., Jr., 3,455,666.
Beguin, Fred P., 3,440,663.
Beguin, Fred P., 3,471,642.
Casko, Robert E., 3,460,928.
Crandon, Harry D.; and Greenberg, Ronald B., 3,484,157.
Faustini, Albert J., 3,442,285.
Grolman, Bernard; and Lawton, Kenneth C., 3,460,887.
Hovey, Richard J., 3,436,144.
Kleinerman, Marcos, 3,484,380.
Koester, Charles J., 3,426,294.
Koester, Charles J., 3,449,037.
Koester, Charles J., 3,456,211.
Koester, Charles J., 3,481,674.
Koester, Charles J., 3,484,710.
Koester, Charles J.; and Snitzer, Elias, 3,484,714.
Metcalfe, Richard T.; and Levesque, Joseph P. R., 3,423,251.
Muller, Robert M.; and Sussman, Milton H., 3,437,398.
Robinson, Charles C., 3,484,152.
Shiner, William H., 3,473,144.
Siegmund, Walter P., 3,472,718.
Snitzer, Elias, 3,426,293.
Snitzer, Elias; Bazinet, Wilfred P., Jr.; and Hwalek, David C., 3,455,667.
Swope, Charles Hermas; Snitzer, Elias; and Koester, Charles J., 3,453,036.
Upton, Lee O., 3,455,668.
Upton, Lee O., 3,481,758.
Young, Robert W., 3,471,408.

American Packaging Corporation, The: *See*—
Berry, John F., 3,471,997.
Watts, Ridley, Jr., 3,474,497.

American Permac, Inc.: *See*—
Sieber, Johannes Helmut, 3,473,175.

American Pharmaceutical Company: *See*—
Badran, Nasri Wadih, 3,485,922.

American Photocopy Equipment Company: *See*—
Hulen, Claude K., 3,456,587.
Hulen, Claude K., 3,470,619.
Kent, George C., 3,423,153.
Kucera, Thomas J.; and Bolsenga, Stanley J., 3,475,094.
Sacre, Leo D., 3,424,526.
Wendt, Otto Bruno, 3,454,398.

American Pipe and Construction Co.: *See—*
Huck, George E., 3,432,914.
American Plasticraft Company: *See—*
Klier, Lewis; and Simovits, Stephen S., Jr., 3,423,717.
American Plate and Window Glass Distributors: *See—*
Pector, Harold; and Tausheck, Russell W., 3,424,487.
American Plating and Manufacturing Company: *See—*
Urban, Charles T.; and Defauw, John, 3,437,002.
American Potash & Chemical Corporation: *See—*
Canning, Thomas F.; Rooney, John A. P.; and Phillips, Frank L., 3,436,344.
Culp, Albert E., 3,454,306.
Kerry, Harold A.; and Mirliss, Melvin J., 3,451,834.
Raisor, Ralph C.; and Rhees, Raymond C., 3,468,630.
Rhees, Raymond C.; and Hammar, Howard N., 3,454,357.
Schumacher, Joseph C.; Rado, Theodore A.; and Fairchild, James L., 3,450,497.
Silvernail, Walter L., 3,436,199.
Washburn, Robert M.; and Baldwin, Roger A., 3,445,492.
Weck, Friedrich J., 3,479,294.
American Potato Company: *See—*
Beck, Roderick G., 3,457,088.
Beck, Roderick G., 3,458,325.
Beck, Roderick G.; and Rainwater, Joe H., 3,459,562.
Keil, O'Dell F., 3,459,141.
American Products, Inc.: *See—*
Hornung, Michael C., 3,464,498.
American Radiator & Standard Sanitary Corporation: *See—*
Krostewitz, Wolfgang, 3,451,854.
Renzi, Peter N., 3,479,489.
American Radiator & Standard Stanitary Corporation: *See—*
Forbes, Norman A., 3,423,158.
American Railroad Supply Company: *See—*
Schanafelt, Raymond A.; Obear, Robert F.; and Milnikel, Clarence E., 3,421,266.
American Safety Equipment Corp. of California: *See—*
Hollowell, James Sherman, 3,425,646.
American Safety Equipment Corporation: *See—*
Michelson, Irving, 3,461,858.
Molitoris, Stephen J., 3,471,865.
Molitoris, Stephen J.; Raney, Dennis F.; and Parylo, Gerald A., 3,480,966.
Raney, Dennis F., 3,471,866.
Romanzi, Louis, Jr.; and Van Dorn, Jeffrey, 3,457,603.
American Safety Equipment Corporation of Michigan: *See—*
Molitoris, Stephen J., 3,436,760.
Raney, Dennis F., 3,465,363.
Webb, Daniel D., 3,479,666.
American Safety Table Company: *See—*
Saganowich, Bernard F.; Gibson, Leslie W., Jr.; and Hoverter, Bryce E., Jr., 3,470,835.
Spinrad, Malcom, 3,447,500.
Spinrad, Malcom; Haas, Kenneth C.; and Hoverter, Bryce E., 3,477,001.
American Saint Gobain Corporation: *See—*
Bundy, Albert J.; and Williams, James L., 3,451,542.
Glynn, Theodore W.; and Storm, Jack S., Jr., 3,477,836.
American Schack Company, Inc., The: *See—*
White, Alan J., 3,446,277.
White, Alan J.; and Meder, Siegfried R., 3,446,279.
American Seating Company: *See—*
Barecki, Chester J.; and Morse, Richard A., 3,464,751.
Barecki, Chester J.; and Lindberg, William S., 3,476,455.
Barecki, Chester J.; Henrikson, Bror W.; and Nordmark, Walter E., 3,478,981.
Barecki, Chester J.; and Henrikson, Bror W., 3,481,624.
Barecki, Chester J.; and Hozeski, Kenneth W., 3,482,875.
Barecki, Chester J.; and Knapp, Robert L., 3,486,790.
Hallstedt, Paul, 3,445,136.
Hoven, Alfred C., 3,478,473.
Van Ryn, Arthur L., 3,429,611.
Van Ryn, Arthur L., 3,464,753.
Van Ryn, Arthur L., 3,479,084.
American Shear Knife Co.: *See—*
Rackoff, Selwyn R.; and Dempsey, Martin J., 3,432,902.
Rackoff, Selwyn R.; and Dempsey, Martin J., 3,435,499.
American Shuffleboard Co., Inc.: *See—*
Daddis, Eugene, 3,424,456.
American Standard, Inc.: *See—*
Arnold, Alanson J.; McKeough, Elmer L.; Ripple, William M.; Schoeffler, Paul W.; and Smith, Herbert J., 3,448,497.
Arnold, Alson J.; Van Dyke, Burton; Van Dyke, Don; and Porter, David D., 3,448,496.
Bernstein, Benjamin T.; Orsen, Stefan; and Zucker, Melvin J., 3,453,647.
Boorman, John K., 3,435,101.
Brunner, Richard, 3,434,344.
Cawthon, William C.; and Ulrich, Robert J., 3,453,133.
Chappel, Raymond M.; Krishnan, Kamala S.; and Van Hise, Charles W., 3,465,421.
De Lancey, Warren H.; Hays, Herbert G.; and Hartzell, Donald W., 3,469,791.
Dixon, Farris E., 3,471,874.
Duggan, Robert B., 3,428,258.
Engelberg, Charles; and Orsen, Stefan, 3,445,839.
Forbes, Norman A., 3,421,691.
Forbes, Norman A., 3,434,164.
Forbes, Norman A., 3,439,226.
Groteke, Daniel E.; and Hopper, Harry G., Jr., 3,421,573.
Groteke, Daniel E., 3,479,202.
Haldopoulos, Ioakim, 3,448,466.
Hamer, Edward A. G., 3,425,562.
Heskestad, Gunnar, 3,425,431.
Heskestad, Gunnar, 3,438,072.
Hoard, John Roberts; and Lakahani, Husain Gulamhusain, 3,484,873.
Hodes, William, 3,463,662.
Hsu, Charles T.; and Hamer, Geoffrey, 3,480,025.
Kaiser, Jack N., 3,427,665.
Kalish, Robert L.; Kanyok, Anthony J.; Hulick, Warren E.; and Hamer, Edward A. G., 3,421,782.
Kalnin, Ilmar L., 3,433,682.
Kanyok, Anthony J., 3,480,147.
Kulling, Gerald J., 3,426,965.
LaVan, John F., 3,476,916.
Loewenthal, Henry J., 3,476,150.
Markland, Norman Ray; and Parkison, Richard Grant, 3,472,453.
Martin, George, 3,463,691.
Merklin, Edward Robert; and Schuster, Donald Ray, 3,420,292.
Nagel, Robert W., 3,469,603.
Noakes, Thomas E.; and Merchant, Leo F., 3,478,774.
Okress, Ernest C., 3,464,207.
Parkison, Richard G., 3,433,264.
Parkison, Richard G.; and Forth, Edward W., 3,465,782.
Parkison, Richard G., 3,468,483.
Parkison, Richard Grant; and Duggan, Robert Beaman, 3,430,686.
Rodely, Alan E., 3,477,275.
Rodely, Alan E., 3,481,196.
Ruggles, Kay L.; Gunnerson, Dale B.; and Clark, Howard S., 3,433,860.
Smith, James Ray, 3,444,391.
Stairs, Henry Marshall, 3,480,973.
Vanegas, Guillermo Jose, 3,430,270.
Wilham, Larry F., 3,449,774.
Wisniewski, Arthur J., 3,420,260.
American Sterilizer Company: *See—*
Beecher, Donald J.; and Otte, George E., 3,453,659.
Brown, Gilbert G., 3,462,594.
Gunther, Donald A., 3,424,548.
Gunther, Donald A., 3,428,556.
Gunther, Donald A., 3,440,157.
Haynes, Howard, 3,428,797.
Lodge, Alvin, 3,436,170.
Perkins, John J.; and Carlson, Robert S., 3,439,966.
Sitter, Donald F.; and Herzog, Robert P., 3,446,952.
Wood, William L., 3,419,911.
American Sugar Company: *See—*
Begiebing, Robert H., 3,459,123.
American Superior Rubber Roller Company: *See—*
Pope, Grady E.; and Armstrong, Jesse D., Jr., 3,442,166.
American Tank and Steel Corporation: *See—*
Sinex, Gene O., 3,443,623.
Welch, John W., 3,451,897.
American Technical Machinery Corporation: *See—*
Abramson, Harvey J., 3,449,887.
Marks, Theodore, 3,451,723.
American Telephone and Telegraph Company: *See—*
Biskup, Donald R., 3,462,681.
Bohnenblust, Clarence E., 3,427,538.
Carle, William E., 3,471,649.
Coel, Trafford H.; Hanford, Eugene B.; and Stewart, Stanley H., 3,423,532.
Hays, Bruce C., 3,420,968.
Hays, Bruce C., 3,456,240.
Heck, Robert L.; and Hutton, Gerald E., 3,427,407.
Hubbell, Richard S., 3,453,391.
Hutton, Gerald E.; Knittle, Gale L.; and Riley, Emmett E., 3,444,337.
Mac Leod, Donald A.; and Maddock, George P., 3,478,174.
Wilson, Raymond K., 3,459,030.
American Thermostat Corporation: *See—*
Levinn, Robert N., 3,423,713.
Levinn, Robert N.; Moyer, Joseph K.; and Rose, Melvin J., 3,451,029.
Moyer, Joseph K.; and Levinn, Robert N., 3,421,131.
American Tobacco Company, The: *See—*
Leake, Preston H.; and Cogbill, Everett C., 3,428,049.
Schoenbaum, Alexander W.; Ashworth, John T.; and Brooks, John G., 3,428,053.

American Toy and Furniture Co., Inc.: *See—*
Rapaport, Gerald M., 3,453,750.
American Tractor Equipment Corporation: *See—*
Sprenkel, Roger, 3,461,971.
American Trading & Production Corporation: *See—*
Seebinger, Frederick L., 3,454,729.
American Velcro, Inc.: *See—*
Coles, John B., 3,458,194.
Girard, Laurent H., 3,426,363.
Girard, Laurent H., 3,431,679.
Girard, Laurent H., 3,449,195.
Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C., 3,461,513.
Hasslinger, Russell, 3,431,605.
Mates, Jack K., 3,450,405.
Mates, Jack K., 3,453,696.
Mates, Jack K,, 3,464,094.
Mates, Jack K., 3,475,810.
Perina, Joseph, 3,461,511.
Rinecker, Franz G., 3,446,420.
Rinecker, Franz G., 3,472,198.
American Warming & Ventilating, Inc., The: *See—*
Johnson, Edward H., 3,426,667.
American Welding & Engineering Co., Inc.: *See—*
Zajac, Anthony J.; and Hahn, Edward J., 3,445,064.
American Welding & Manufacturing Company, The: *See—*
Brown, Arthur S.; Leiby, Harold E.; and Miller, Earle A., 3,455,078.
Erwin, Kenneth L.; and Lodwick, Ross W., 3,479,480.
Erwin, Kenneth L.; and Lodwick, Ross W., 3,479,482.
Fortsch, Francis J.; and Durch, Edward L., 3,425,159.
Fortsch, Francis J.; and Sullivan, Harold E., 3,429,076.
American Zinc Company: *See—*
Klein, Otto C.; and Mason, Gilbert E., 3,429,662.
Mason, Gilbert E.; and Armbruster, Howard L., 3,431,106.
Quinn, Patrick D., 3,463,665.
Amerind Incorporated: *See—*
Knotts, George F.; and Beyer, Herbert K., 3,424,438.
Amerio, Pasquale, to St. Regis Paper Company, mesne. Rotary drum freezer. 3,472,041, 10-14-69, Cl. 62-303.
Amerline Corporation: *See—*
Becker, Robert; and Hultgren, Arnold P., 3,438,591.
Brown, Maurice H.; and Linning, George F., 3,428,929.
Hultgren, Arnold P., 3,485,457.
McKelvey, Andrew, Jr., 3,465,875.
Weyrich, Arthur G.; and Tellen, Chester J., 3,485,456.
Amero, Clifford Leonard, to Bird Machine Company. Anaerobic digestion process. 3,468,794, 9-23-69, Cl. 210-4.
Amero, John J., to Norton Company. Method of making impregnated sintered bauxite grains and the produce thereof. 3,450,515, 6-17-69, Cl. 51-307.
Amero, John J., to Norton Company. Sintered alpha-alumina and zirconia abrasive product and process. 3,454,385, 7-8-69, Cl. 51-298.
Amerock Corporation: *See—*
Ahlgren, Axel W., 3,469,875.
Anderson, Lloyd L., 3,431,590.
Anderson, Lloyd L., 3,438,665.
Erickson, Karl H., 3,438,666.
Erickson, Karl H., 3,476,424.
Ames, Allan R.: *See—*
Bies, Sylvester W.; and Ames, Allan R.,3,452,927.
Ames, B. C., Company: *See—*
Bond, Robert D., 3,425,392.
Ames, John E., Jr., to Bourns, Inc. Variable reluctance transducer. 3,421,126, 1-7-69, Cl. 336-30.
Ames, John E., Jr., to Bourns, Inc. A. C. apparatus temperature compensation. 3,463,999, 8-26-69, Cl. 323-69.
Ames, John W.: *See—*
Egan, Raymond D.; and Ames, John W.,3,487,312.
Ames, Joseph L.; and Brett, Charles K., to Continental Can Company, Inc. Pharmaceutical package. 3,437,194, 4-8-69, Cl. 206-45.31
Ames, Richard H., to Dow Corning Corporation. Two-way flushing device for treatment of hydrocephalus. 3,452,757, 7-1-69, Cl. 128-350.
Ames, Robert G., to Bliss & Laughlin Industries, Incorporated. Sander with universal handle and lock. 3,483,662, 12-16-69, Cl. 51-392.
Ames, Ronald B.; and Smith, Allen E., to Uniroyal, Inc. Method of controlling weeds. 3,462,259, 8-19-69, Cl. 71-121.
Ames, Sidney B.: *See—*
Norton, Randolph; and Ames, Sidney B.,3,475,095.
Ames, Stephen Alexander, to United States of America, Air Force, mesne. Microwave phase shift modulator for use with tunnel diode switching circuits. 3,437,957, 4-8-69, Cl. 332-16.
Ames, Stuart Leslie; and Bitler, William R., to Allegheny Ludlum Steel Corporation. Method of increasing the silicon content of wrought grain oriented silicon steel. 3,423,253, 1-21-69, Cl. 148-110.
Ames, Victor H.: *See—*
Morey, Woodruff A.; Molt, Richard P.; Ames, Victor H.; and Dolin, Edward T.,3,447,697.
Ames, W. R., Company: *See—*
Roulet, Robert F.; and Owen, Willis A., 3,456,683.
Ames, Ward A., to Tridan Tool & Machine, Inc. Cycling feed apparatus. 3,454,205, 7-8-69, Cl. 226-64.
Ametek, Inc.: *See—*
Arce, Henry L.; and Whitener, Jack L., 3,465,221.
Bannon, Thomas W., Jr., 3,420,970.
Bieber, William J., 3,448,939.
Buss, Bejamin A., 3,436,853.
Daugherty, Frank Z., 3,437,185.
Giltner, Charles M., 3,467,329.
Gruner, Frederick R., 3,476,340.
Gruner, Frederick R.; and Dahlquist, Robert L., 3,484,966.
Harland, Philip W.; and Schmaus, Siegfried H. A., 3,423,064.
Henry, Frank B.; and Ropp, Donald L., 3,436,850.
Henry, Frank B.; and Windmiller, Harvey L., 3,477,708.
Herzberg, Roland J., 3,443,422.
Krynski, John E.; and Engwall, Richard E., 3,477,583.
Laugel, Roland L., 3,468,424.
Lumn, John H., 3,480,231.
Lumn, John H., 3,482,802.
Mursinna, Richard C., 3,468,060.
O'Conor, Frank, 3,423,015.
O'Conor, Frank, 3,471,081.
Seggebruch, Ernie G., 3,443,697.
Summers, Stanley E., 3,464,585.
Vogelsberg, Walter H., 3,430,915.
Wolverton, Kenneth H.; and Hornback, Robert H., 3,443,406.
Wolverton, Kenneth H., 3,443,407.
Wolverton, Kenneth H., 3,480,315.
Amey, Arnold L.: *See—*
Francis, Joseph E.; and Amey, Arnold L.,3,465,735.
Ameyama, Yoshiaki; and Takeda, Akira, to Kanto Gasukigu Kabushiki Kaisha. Impact type of piezoelectric mechanism by way of an electric source for lighting. 3,428,408, 2-18-69, Cl. 431-255.
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, to Roussel-Uclaf. Total synthesis by steroids and novel steroid intermediates. 3,449,382, 6-10-69, Cl. 260-397.5
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, to Roussel-UCLAF. Certain tetrahydroindane derivatives. 3,478,062, 11-11-69, Cl. 260-343.3
Amici, Alba Maria; Minghetti, Anacleto; Scotti, Tullio; Spalla, Celestino; and Tognoli, Luigi. Fermentative process for producing ergocryptine. 3,485,722, 12-23-69, Cl. 195-81.
Amick, James A., to RCA Corporation. Method of depositing refractory metals. 3,477,872, 11-11-69, Cl. 117-212.
Amick, James W., to Standard Oil Company (Indiana). Rust inhibitors. 3,447,918, 6-3-69, Cl. 44-70.
Amicon Corporation: *See—*
Bixler, Harris J.; and Fallick, Gary J., 3,471,439.
Bixler, Harris J.; Cross, Robert A.; and Markley, Lita L., 3,475,358.
Bolger, Justin C., 3,464,854.
Michaels, Alan S., 3,467,604.
Amidon, Alan B.; and Brynko, Carl, to Xerox Corporation. Image formation through the chemical reaction of photochromic materials. 3,441,411, 4-29-69, Cl. 96-27.
Amidon, Alan B.; and Brynko, Carl, to Xerox Corporation. Formation of light scattering images in layers comprising organic photochromic materials. 3,442,646, 5-6-69, Cl. 96-27.
Amidon, Alan B.; and Brynko, Carl, to Xerox Corporation. Photographic imaging by means of the surface tension created by photochromic materials. 3,450,530, 6-17-69, Cl. 96-27.
Amidon, Alan B.; and Brynko, Carl, to Xerox Corporation. Adhesive imaging on photochromic layers. 3,450,531, 6-17-69, Cl. 96-27.
Amidon, Alan B.; and Brynko, Carl, to Xerox Corporation. Formation of light scattering images in photochromic layers. 3,450,533, 6-17-69, Cl. 96-27.
Amidon, Alan B.; and Brynko, Carl, to Xerox Corporation. Photochromic photoresist imaging. 3,471,290, 10-7-69, Cl. 96-36.
Amidon, Alan B.; and Brynko, Carl, to Xerox Corporation. Imaging system. 3,482,973, 12-9-69, Cl. 96-35.
Amidon, Alan B.: *See—*
Weigl, John W.; and Amidon, Alan B.,3,477,846.
Amidon, Joseph C.; and Quayle, Jackson C. Utility pole insulator bracket extension. 3,474,995, 10-28-69, Cl. 248-221.
Amiet, Bernard Paul Louis, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Deferred action, gas-activated cells or batteries. 3,434,884, 3-25-69, Cl. 136-86.
Amin, Rajnikant B.: *See—*
Willcox, Oswin B.; Kolb, Kenneth M.; and Amin, Rajnikant B.,3,459,574.
Amir, Emanuel M., to Esso Research and Engineering Company. Polymerization of propylene. 3,431,317, 3-4-69, Cl. 260-683.15
Amir, Emanuel M., to Esso Research and Engineering Company. Catalyst for isomerization of polymethylbenzene. 3,484,385, 12-16-69, Cl. 252-455.

Amir, Emanuel M.; Wadley, Edward F.; and Wesselhoft, Robert D., to Esso Research and Engineering Company. Startup procedure for isomerizing polymethylbenzene. 3,449,456, 6-10-69, Cl. 260-668.

Amiragoff, Abel Boris. Teleidentification system for monitoring a plurality of points. 3,430,199, 2-25-69, Cl. 340-147.

Amiragoff, Boris Abel. Signal detection and measuring circuit. 3,448,261, 6-3-69, Cl. 250-43.5

Amis, James W., Jr.; and Dobson, James B., to Littelfuse, Inc., mesne Korry Manufacturing Co. Tube lamp socket fixture with hinged cover panels. 3,436,716, 4-1-69, Cl. 339-54.

Amita Company Limited: *See*—
Ichikawa, Mitsuo, 3,446,110.

Amity Leather Products Co.: *See*—
Plaskan, Laurance F., 3,454,151.

AMK Subsidiary Corporation: *See*—
Cantarutti, Armindo, 3,479,693.
Turk, Leonard G.; Cantarutti, Armindo; and Breza, Stephen F., 3,461,502.
Ulm, Ernest S.; and Stoyanov, Benjamin, 3,471,895.
Ulm, Ernest S., 3,483,596.

Amlin, Lovis J. Float for fishing lines. 3,464,141, 9-2-69, Cl. 43-43.11

Amlinger, Philipp R. Circuit design computer. 3,453,737, 7-8-69, Cl. 33-1.

Ammann, Paul R.: *See*—
Leopold, Wilbur R., Jr.; Floren, Carl E.; and Ammann, Paul R.,3,472,532.

Ammco Tools, Inc.: *See*—
Kushmuk, Walter P., 3,456,401.

Ammerman, Frank E., to Chrysler Corporation. Neutral secondary battery. 3,447,971, 6-3-69, Cl. 136-26.

Ammerman, George Edward; and Cunningham, Donald M., to Wiegand, Edwin L., Company. Electrical connectors particularly for electric resistance heating elements. 3,447,121, 5-27-69, Cl. 339-192.

Ammon, Johannes H.; Schlichting, John; and Sprague, Theodore S., to Babcock & Wilcox Company, The. Once-through vapor generator. 3,437,077, 4-8-69, Cl. 122-32.

Ammondson, Clayton J.; Cockrell, Eldridge H.; Silberman, Ira J.; and James, Forrest H., Jr., to Diversified Products Corporation. Combination resilient shell filled with solidified dense material and sealing plug. 3,464,692, 9-2-69, Cl. 272-84.

Ammons, James William; Mauer, Paul Bernard; Reynolds, George A.; and Van Allan, James A., to Eastman Kodak Company. Sturable absorber laser Q-switch. 3,462,706, 8-19-69, Cl. 331-94.5

Ammons, Joseph L.; and Morrow, Floyd H. Pneumatically actuated, automatic skinless sausage molding machine. 3,421,178, 1-14-69, Cl. 17-32.

Ammons, Joseph L.; and Morrow, Floyd H. Apparatus for placing sheet material on a surface and cutting to a predetermined length. 3,421,394, 1-14-69, Cl. 83-157.

Ammons, Robert L.: *See*—
Harrington, Robert C., Jr.; and Ammons, Robert L.,3,428,723.

Ammons, Robert L., to Eastman Kodak Company. Synthetic fiber sewing thread. 3,435,605, 4-1-69, Cl. 57-140.

Amneus, John S., to Procter & Gamble Company, The. Weaving polyester fiber fabrics. 3,473,576, 10-21-69, Cl. 139-420.

Amodei, Juan J., to Radio Corporation of America. Thermal feedback for stabilization of differential amplifier unbalance. 3,445,777, 5-20-69, Cl. 330-23.

Amoh, Hiroshi, to Ushio Electric Inc. Device for carrying out observations of an image formed on an image forming surface. 3,469,909, 9-30-69, Cl. 353-98.

Amon, Maurice E. Snap hook. 3,444,599, 5-20-69, Cl. 24-236.

Amori, Joseph A., to Rapid-Cleave Corporation. Suspension and control mechanism for shaker table. 3,435,690, 4-1-69, Cl. 74-61.

Amoruso, Dominic John. Music teaching device. 3,427,918, 2-18-69, Cl. 84-477.

Amoruso, Donald J.; and Botwin, Leo, to United Aircraft Corporation. Monopulse radar system of high resolution and accuracy. 3,427,616, 2-11-69, Cl. 343-16.

Amos, Homer C.; and Strickland, Edward T. Pump. 3,446,149, 5-27-69, Cl. 103-84.

Amos, James L.; Baretta, Edward D.; and Dahl, James J., to Dow Chemical Company, The. Modified vinyl chloride polymer compositions. 3,428,707, 2-18-69, Cl. 260-827.

Amos, Lynn G., to Corning Glass Works. Fluid operated intermittent drive mechanism. 3,441,250, 4-29-69, Cl. 253-36.

Amos, Lynn G.; and Langley, Lawrence W., to Corning Glass Works. Tape transport indexing device. 3,469,752, 9-30-69, Cl. 226-56.

Amot Controls Corporation: *See*—
Munroe, William O., 3,448,228.

AMP Incorporated: *See*—
Aeronautics Koehler, Carl August, Jr.; and Shrock, Mark Allen, 3,448,345.
Ahearn, John James, Jr.; and Clements, Thomas Robert, 3,448,355.
Ahearn, John James, Jr.; and Taylor, William Leander, 3,474,185.

Baker, Charles Edward, II; and Casciotti, Albert, 3,440,597.

Beinhaur, Ernest L., 3,422,521.

Bennion, David Ralph; and English, William Kirk, 3,435,432.

Bennion, David Ralph; and English, William Kirk, 3,435,433.

Blair, Bryce Wilson, 3,461,799.

Brown, Christopher Kingsley, 3,443,299.

Brown, Christopher Kingsley, 3,462,567.

Brown, Ivan Godfrey Oliver, 3,473,213.

Brown, Malcolm Neal; Hargest, Thomas Sewell, III; and Stoltz, Herbert Collier, 3,449,952.

Brummans, Wilhelmus Johnnes, 3,441,661.

Busler, Willard Le Roy, 3,431,548.

Busler, Willard Le Roy, 3,455,010.

Carlisle, Raymond Melvin; and Loose, Winfield Warren, 3,436,696.

Cea, Carmen Achille, 3,423,718.

Cobaugh, Robert Franklin, 3,440,723.

Cobaugh, Robert Franklin, 3,471,916.

Coldren, Daniel Russell, 3,424,856.

Crane, Hewitt D.; and Mac Curdy, William K., 3,453,605.

Dechert, Woodrow Wilson, Jr.; and Zimmerman, Richard Le Roy, 3,447,457.

Dell, Harry John; Folkenroth, Earl Earnest; and Garver, William Joseph, 3,424,416.

Dell, Harry John; and Stoyer, Charles Robert, III, 3,467,942.

Demler, Henry William, Sr., 3,476,412.

Dowling, Edward Camp, 3,426,334.

Dowling, Edward Camp; Carlisle, Raymond Melvin; and Fraunfelder, James Alexander, 3,446,982.

Dowling, Edward Camp, 3,482,221.

English, William K., 3,434,126.

Eshenauer, Earl Wilbert, J., 3,479,653.

Evans, William Robert, 3,438,095.

Evans, William Robert, 3,439,311.

Evans, William Robert, 3,439,316.

Feeser, William Coover; Bosland, Cornelius William; Lockard, Joseph Larue; and Mummey, Dale Brice, 3,430,183.

Felty, Paul John, Jr.; and Rosengren, Herbert, 3,443,683.

Ferdon, Gilbert Douglas; and Henschen, Homer Ernst, 3,474,395.

Fernald, Charles Henry; and Poltonavage, Edward Michael, 3,453,578.

Figge, Frank H. J.; and Flower, Guiles, Jr., 3,474,777.

Friend, Lindsay Carlton, 3,459,904.

Friend, Lindsay Carlton, 3,483,339.

Fritz, Coey William; and Schwalm, Glendon Henry, 3,484,922.

Garver, William Joseph; and O'Hanlan, Michael Anthony, Jr., 3,462,725.

Gilissen, Herman Petrus Johannes, 3,437,983.

Gilissen, Herman Petrus Johannes, 3,479,637.

Gilissen, Hermanus P. J., 3,469,228.

Gillespie, James Francis, 3,453,377.

Gluntz, Glenn Harlan, 3,480,904.

Graeff, Norwood Claude; and Shannon, Suel Grant, 3,476,115.

Grebe, Robert Karl; and Kreinberg, Earl Raymond, 3,458,787.

Gurley, Grey Manning; and Over, William Roderick, 3,431,621.

Gurley, Grey Manning, 3,456,477.

Hadden, Edward Leal, 3,425,030.

Hadden, Edward Leal, 3,479,719.

Hahn, Paul Turner; Hoopes, Penrose Robinson; and Froelich, Gunnar Cramer, 3,456,324.

Hammel, Kemper Martel; and Cobaugh, Robert Franklin, 3,474,394.

Hammell, Kemper Martel; and Whitmoyer, Kenneth Leon, 3,467,944.

Hammell, Kemper Martel, 3,487,350.

Hatfield, John G.; and Murray, Robert M., 3,420,087.

Hedberg, Carl Raymond, 3,459,397.

Herman, Robert Wilson; and Hadden, Edward Leal, 3,466,589.

Howard, David Francis, 3,479,717.

Huber, John Henry, 3,471,825.

Hudson, William Jeffrey, Jr.; and Gaw, John William, 3,434,097.

Jarrett, Roy Chester; and Patrick, Richard William, 3,448,248.

Keller, Joseph Richard, 3,428,843.

Klingler, Martin Luther, 3,423,987.

Laudig, Ronald Clair; and Smith, Donald Lee, 3,441,659.

Lentz, John Theodore, 3,470,499.

Lightner, Linn Stephen; Bennett, Benny Morris; and Asick, John Carl, 3,439,314.

Long, Robert Alvin; and Poplaski, Daniel Eugene, 3,420,086.

Loose, Winfield Warren, 3,428,935.

Lundergan, Robert Graham, 3,453,375.

Lynch, James Edward; Erline, Dexter Wyman; and Morehart, Ronald Charles, 3,444,504.

Maltais, Frederick Jean; and Beck, Richard Lee, 3,475,573.

Mixon, James Lenhart, Jr., 3,434,511.

Mixon, James Lenhart, Jr.; and Wahl, Frederick William, 3,458,996.

O'Keefe, Michael Francis; and Stull, Robert Stanley, 3,437,982.

O'Keefe, Michael Francis; and Fan, John Changnien, 3,445,794.

O'Keefe, Michael Francis; Stull, Robert Stanley; and Greene, Loy Richard, 3,459,906.
Over, William R., 3,438,407.
Over, William Roderick, 3,426,355.
Over, William Roderick, 3,444,312.
Paullus, Clarence Leonard; and Zimmerman, John Aaron, Jr., 3,456,231.
Polidori, Mario, 3,470,728.
Pritulsky, James, 3,479,634.
Reem, Richard Ellwood; and Vickery, John Roy, Jr., 3,436,820.
Reem, Richard Ellwood; and Ullman, Robert, 3,455,006.
Reider, George Sylvester, Jr.; and Seitz, Edward Lamonte, Jr., 3,428,934.
Renshaw, Floyd Harold, Jr., 3,471,823.
Rueger, Herman, 3,434,137.
Schumacher, William Ludlow, 3,434,098.
Schumacher, William Ludlow, 3,474,532.
Schwalm, Glendon Henry; and Fritz, Coey William, 3,484,936.
Seagrave, James; and Welburn, Norman, 3,486,154.
Shannon, Suel Grant; and Graeff, Norwood Claude, 3,426,757.
Shannon, Suel Grant; and Graeff, Norwood Claude, 3,476,114.
Shlesinger, Bernard Edward, Jr., 3,445,930.
Shlesinger, Bernard Edward, Jr., 3,461,258.
Sitz, Gilbert Carl, 3,480,745.
Stark, Frank B.; and Laudig, Ronald C., 3,475,545.
Stark, Frank Benjamin; and Smith, Donald Lee, 3,441,658.
Stark, Frank Benjamin; and Merry, Roydon William, 3,462,726.
Stark, Frank Benjamin; and Merry, Roydon William, 3,479,635.
Startin, Kenneth John, 3,432,788.
Sweeney, Joseph P., 3,443,254.
Sweeney, Joseph Patrick; and Wiley, Lawrence Grebe, 3,444,532.
Sweeney, Joseph Patrick, 3,484,755.
Swengel, Robert Charles, Sr., 3,469,448.
Teagno, Wladimiro, 3,474,399.
Till, James Peter, 3,426,265.
Van Baelen, Armand Robert, 3,471,822.
van de Kerkhof, Lodevicus Lambertus Johannes; and de Vries, Joseph Gerardus Maria, 3,479,718.
Van De Kerkhof, Lodevicus Lambertus Johannes, 3,481,018.
Vickery, John Roy, Jr., 3,466,729.
Wahl, Frederick William; and Beinhaur, Ernest Lloyd, 3,462,543.
Watts, William Sewell, 3,434,746.
Wilm, August L. M., 3,426,320.
Winrow, Donald; Longenecker, Bruce Cameron; and Reynolds, Charles Edward, 3,469,258.
Wycheck, Thomas Henry, 3,426,313.
Ziegler, George William, Jr., 3,437,960.
Ziegler, George William, Jr.; and Apa, Armand Samuel, 3,453,376.
Ziegler, George William, Jr., 3,460,072.
Ziegler, George William, Jr., 3,484,921.

Ampex Corporation: *See—*
Boblett, Emil V., 3,484,753.
Bounsall, Norman F., 3,436,489.
Chang, David Teh-Liang, 3,429,494.
Coleman, Charles H., Jr.; and MacKenzie, Robert P., 3,428,745.
Crum, Charles W., 3,463,877.
Damron, Sidney S., 3,483,540.
Diaz, Frank, 3,437,510.
Everhart, Thomas E., 3,430,255.
Hunt, Robert P., 3,472,575.
Jacobson, Morton J.; and Lundgren, Sten E., 3,473,960.
Jaecklin, Andre A., 3,474,425.
Johnson, Delmar Ronald, 3,439,850.
Kember, Bryan F., 3,451,637.
Kowal, Leonard; and Starai, Rudolph, 3,484,548.
Kuljian, Maynard J., 3,437,795.
Lee, Lester H., 3,435,245.
Lee, Lester H., 3,462,659.
Lehnert, Stanley E., 3,453,487.
Lewis, Martyn A., 3,487,392.
Lindell, Edward, 3,428,951.
Ma, Joseph T.; and Nakai, Roy T., 3,435,442.
MacLeod, Donald B.; and Macklin, Arnold, 3,450,832.
Markevitch, Bob V., 3,463,926.
Markowitz, Seymour; and Mayne, David W., 3,474,419.
Mayne, David W.; and Spears, Loy Leonard, 3,466,630.
Peters, Byron M., 3,448,812.
Quinn, James E.; and Johnson, Delmar R., 3,436,491.
Stahler, Alfred F., 3,435,441.
Tobey, Richard, 3,450,973.
Treves, David, 3,480,933.
Waddington, Max D., 3,480,134.
Wallace, Kurt F., 3,466,534.
Webb, Robert R., 3,448,395.
Wickham, Donald G., 3,477,960.
Wickham, Donald G., 3,479,132.
Wolf, Irving William; and Jaecklin, Andre A., 3,427,603.
Woodbury, William White, 3,444,540.
Wright, Harold T., 3,465,936.
Youngstrom, Jerry R., 3,424,915.

Amphenol Corporation: *See—*
Cameron, John K., 3,451,117.
Flanagan, James R.; and Zerlin, William M., 3,439,294.
Gartzke, Donald G.; and Scudo, Aldo, 3,474,391.
Kohlhagen, Walter, 3,421,032.

Amphenol-Borg Electronics Corporation: *See—*
Cummings, Harold K., 3,434,027.

Ampoules, Inc.: *See—*
Hurschman, Alfred A., 3,422,594.

Amrein, Carl J.: *See—*
Harvey, David E.; Amrein, Carl J.; and Abbratozzato, Salvatore R.,3,476,965.

Amrein, Carl J., to Black and Decker Manufacturing Company, The. Brush holder assembly with insert. 3,480,814, 11-25-69, Cl. 310-247.

Amrein, Carl J.; and Bednarski, Thaddeus E., to Black and Decker Manufacturing Company, The. Electrical motor brush holder assembly. 3,441,766, 4-29-69, Cl. 310-239.

Amrein, Carl J.; and Carman, Charles V., to Black and Decker Manufacturing Company, The. Armature construction for double-insulated tool. 3,447,011, 5-27-69, Cl. 310-235.

Amsalco, Inc.: *See—*
Deluca, Frank P., Jr., 3,478,883.

Amsco Packaging Machinery, Inc.: *See—*
Sylvester, John D.; and Keenan, John D., Jr., 3,478,490.

Amseco Corporation: *See—*
Sedam, Jason K., 3,479,069.

Amsler, Clyde R.; Brastow, Edgar R.; and Little, Ronald F., to Clary Corporation. Method and means for reducing gyro gimbal bearing friction. 3,446,080, 5-27-69, Cl. 74-5.

Amsted Industries Incorporated: *See—*
Altherr, Russell G., 3,432,011.
Andrews, Robert S. L.; and Smith, George H., 3,458,613.
Bramley, Hal F.; Chiplis, Felix A.; Dunkle, David E.; and Taivalkoski, George W., 3,452,572.
Casey, William J., 3,448,837.
Crowe, John E., 3,469,740.
Dearth, Raymond J., 3,425,483.
Dearth, Raymond J., 3,459,254.
Drever, James Ross; Zimmerman, Philip D.; and Brink, Allan B., 3,476,847.
Ebeling, Arthur W., 3,443,629.
Jeffreys, Lyman W., 3,459,256.
Jeffreys, Lyman W., 3,479,678.
Kulieke, Fredick C., Jr.; and Wisler, Lee G., 3,445,005.
Love, Robert B., 3,452,686.
Love, Robert B., 3,459,139.
Moehling, Charles, 3,438,339.
Nelson, John T., Jr., 3,454,254.
Pfrank, James Francis; Kilgard, Walter W.; and Norcross, Harold W., 3,448,629.
Resener, Baird E., 3,425,724.
Resener, Baird E., 3,476,227.
Rodgers, Loyal J., 3,433,473.
Rodgers, Loyal J., 3,486,466.
Tack, Carl E., 3,482,530.
Tack, Carl E., 3,482,531.

Amster, Stanley A., to Federal Laboratories, Inc. Delay actuator. 3,430,568, 3-4-69, Cl. 102-82.

Amsterdam Brush Corp.: *See—*
Edelson, Stanley; and O'Brien, George R., 3,432,875.

Amsterdam, Michael F.; Shaikh, Mohammed S.; and Tarneja, Krishan S., to United States of America, Air Force, mesne. Method of making solar cell. 3,438,120, 4-15-69, Cl. 29-572.

Amsterdam, Michael F.; and Whigham, Dale M., to Westinghouse Electric Corporation. Heterojunction solar cell with shorted substrate. 3,457,467, 7-22-69, Cl. 317-234.

Amsterdam, Michael F.: *See—*
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Amsterdam, Michael F.,3,421,946.

Amstutz, Forrest C., to Dow Chemical Company, The. Anti-caking agent for sodium trichloroacetate. 3,457,304, 7-22-69, Cl. 260-539.

Amthor, Helmut K.; and Conte, Alfred L., to Union Carbide Corporation. Apparatus for forming metal. 3,431,622, 3-11-69, Cl. 29-204.

Amtsberg, Lester A.: *See—*
McHenry, Kenneth A.; and Amtsberg, Lester A.,3,466,730.

Amundsen, Howard R. Open pit vortex incineration arrangement. 3,465,696, 9-9-69, Cl. 110-8.

Amundsen, Paul D.: *See—*
Liautaud, Philip J.; Liautaud, John N.; and Amundsen, Paul D.,3,436,761.

AMW Corporation: *See—*
Works, John D.; White, Donald H.; and Campbell, Alan M., 3,453,932.

Amylo Chemie N.V.: *See—*
Deenop, Coenraad, 3,443,990.

Anacker, Wilhelm, to International Business Machines Corporation. Scheme for circumventing bad memory cells. 3,434,116, 3-18-69, Cl. 340-172.5
Anacker, Wilhelm, to International Business Machines Corporation. Distortionless array lines for memories. 3,466,636, 9-9-69, Cl. 340-174.
Anacker, Wilhelm, to International Business Machines Corporation. Nondestructive readout magnetic memory. 3,466,638, 9-9-69, Cl. 340-174.
Anaconda Aluminum Company: *See—*
Smith, Addison Romaine, II, 3,456,337.
Anaconda American Brass Company: *See—*
Palmer, Earl W.; Laigle, Roger E.; and Kabelka, Peter J., 3,421,866.
Rowell, Douglas Whitman, 3,474,522.
Webbe, Charles E., 3,459,233.
Anaconda American Company: *See—*
Bray, Robert S.; Lozano, Luis J.; and Kabelka, Peter J., 3,469,430.
Anaconda Company, The: *See—*
Clancy, John Patrick, 3,461,046.
Foard, William H., 3,473,918.
Hannifan, Martin K.; and Ballard, James, 3,441,316.
Jackson, Meryl A.; and Owings, James L., 3,464,814.
Peterson, Robert C.; and Maass, Herman M., 3,421,850.
Sullivan, Robert E., 3,446,578.
Sullivan, Robert E., 3,476,511.
Anaconda Electronics Company: *See—*
Luksch, James A.; Dolan, Lawrence C.; Brooks, Robert A.; and Zimmerman, Aric, 3,450,987.
Rheinfelder, William A., 3,435,358.
Rheinfelder, William A., 3,451,003.
Rheinfelder, William A., 3,469,190.
Anaconda Wire and Cable Company: *See—*
Arnaudin, Edwin H., Jr.; and Wade, Robert M., 3,479,446.
Bullock, Kenneth R.; and Tomlinson, Harry M., 3,459,877.
Bunish, Steve; and Perrone, Rosario J., 3,487,149.
Hoeltzel, Frederic E.; and Ott, Richard H., 3,468,144.
Olson, Emil H.; Ulmer, William W.; and Christensen, Richard L., 3,445,282.
Olson, Emil H., 3,455,021.
Ostrander, George W.; and Pendleton, Wesley W., 3,425,121.
Pendleton, Wesley W.; and Ostrander, George W., 3,442,702.
Pendleton, Wesley W., 3,446,660.
Pendleton, Wesley W.; and Ostrander, George W., 3,464,836.
Perrone, Rosario J.; and Jore, Olav E., 3,448,204.
Peters, Vernon G., 3,420,459.
Plate, Walter J.; and Arnaudin, Edwin H., Jr., 3,474,189.
Ulmer, William W., 3,458,595.
Anadarko Production Company: *See—*
King, William R., 3,441,923.
Anagnost, Christ W.: *See—*
Padgett, Edward D.; Hendrickson, Arthur H.; and Anagnost, Christ W.,3,450,895.
Analog Devices, Inc.: *See—*
Burwen, Richard S., 3,467,908.
Analytic Systems Company: *See—*
Chand, Ramesh, 3,449,162.
Lauer, Jay M., 3,429,796.
Anand, Ram P., to Bell Telephone Laboratories, Incorporated. High frequency tantalun attenuation in traveling wave tubes. 3,474,284, 10-21-69, Cl. 315-3.5
Anandam, Ernest J., to University of Tennessee Research Corporation, The. Gas cap for culture tubes. 3,451,894, 6-24-69, Cl. 195-127.
Ananev, Vladimir Alexandrovich: *See—*
Tevis, Petr Isaakovich; Kostochkin, Vladimir Nikolaevich; Ananev, Vladimir Alexandrovich; Krjukov, Viktor Mikhailovich; and Mitin, Dmitry Mikhailovich,3,467,179.
Ananiades, Constantine S.; and Krossa, Kenneth D., to Burroughs Corporation. Pulse discrimination circuit. 3,482,170, 12-2-69, Cl. 328-116.
Anapsky Vinzavod: *See—*
Bazhenov, Petr Dmitrievich; Orekhanov, Voleslav Zakharovich; Rubets, Vladimir Gavrilovich; and Failkovsky, Vladimir Ivanovich, 3,486,437.
Anastasescu, Efrem: *See—*
Patron, Teodor; Niculescu, Ion Alexandru; and Anastasescu, Efrem,3,450,203.
Anastasia, Anthony S.: *See—*
Agrista, Dominic S.; and Anastasia, Anthony S.,3,476,377.
Anastin, Samuel C. Sound improving devices. 3,432,001, 3-11-69, Cl. 181-31.
Anazawa, Shinzo: *See—*
Ikeda, Koichi; Tsuji, Shigeru; Anazawa, Shinzo; and Koyama, Tsukasa,3,420,683.
Anbo, Seisai, to Nippon Gakki Seizo Kabushiki Kaisha. Mouthpiece receiver for brass musical instruments. 3,474,698, 10-28-69, Cl. 84-399.
Ancelle, Bernard; and Plancon, Marcel, to Progil. Bleaching pulp having high consistency with ozone having moisture content near 100%. 3,451,888, 6-24-69, Cl. 162-65.
Ancevicius, Dalia E.: *See—*
Janiszewski, Anthony T.; and Ancevicius, Dalia E.,3,471,148.
Anchor Brush Company: *See—*
Baumgartner, John G., 3,430,281.
Anchor Chemical Company Limited, The: *See—*
Bell, Stanley C., 3,429,913.
Anchor Continental: *See—*
Dahl, Rolf, 3,437,622.
Anchor Coupling Co., Inc.: *See—*
Cepon, John R., 3,437,358.
Galan, Julian; and Smith, Terry W., 3,455,140.
Anchor Enterprises Corporation: *See—*
Toth, Louis, 3,443,624.
Toth, Louis, 3,460,289.
Anchor Hocking Corporation: *See—*
Acton, Daniel D.; and Pflieger, Orin L., 3,466,731.
Dubble, Roger D.; and Orton, Erby, 3,479,208.
Fouse, Frederick Z., 3,477,841.
Kidwell, Jay F., 3,479,514.
McNamara, William L., 3,467,514.
Seeley, Clarence Edward; and Smith, Charles Myron, 3,479,193.
Shonebarger, Francis J., 3,485,644.
Anchor Hocking Glass Corporation: *See—*
Acton, Daniel D., 3,465,908.
Acton, Daniel D., 3,469,727.
Bogart, Burton S., 3,445,275.
Bogart, Burton S., 3,487,035.
Dubble, Roger D.; and Alten, Edward H., 3,438,803.
Foss, George J.; Runco, Joseph C.; and Roberts, Cecil P., 3,438,174.
Ochs, Charles S., 3,444,983.
Ochs, Charles S., 3,465,878.
Osterhage, Bernard H., 3,427,785.
Poole, Dan A., 3,425,831.
Schmidt, Beuther L., 3,421,876.
Stover, Harry E., 3,460,312.
Wittman, Lewis J., 3,445,266.
Ancliff, Walter A., to Ford Motor Company. Vehicle safety key. 3,423,973, 1-28-69, Cl. 70-408.
Anco Plastics Pty. Limited: *See—*
Anderson, James William, 3,484,901.
Andale Company: *See—*
McNeal, Daniel R., Jr., 3,452,394.
McNeal, Daniel R., Jr., 3,466,945.
Andblad, Kjell Ingemar; Anvarn, Verner Valfrid; Samuelsson, Rune Paul; Odebo, Nils Einar; and Wetterberg, Erik Ernst Waldemar. Machine for wrapping a group of containers such as cans in material of foil type. 3,481,107, 12-2-69, Cl. 53-159.
Andeen, Richard E., to Sperry Rand Corporation. Power-moment self-adaptive control system. 3,446,946, 5-27-69, Cl. 235-150.1
Andeen, Richard E.; and Kotfila, Ronald P., to Sperry Rand Corporation. Pseudo control stick steering system for aircraft having a damper system. 3,476,335, 11-4-69, Cl. 244-77.
Andell, Charles R.: *See—*
Zadanoff, Walter R.; and Andell, Charles R.,3,437,365.
Anderau, Walter: *See—*
Dreyfuss, Paul; and Anderau, Walter,3,436,218.
Anderau, Walter, to Ciba Limited. Photographic materials for the silver dyestuff bleaching process. 3,443,952, 5-13-69, Cl. 96-99.
Anderau, Walter; Mory, Rudolf; and Piller, Bernhard, to Ciba Limited. Photographic materials for the silver dyestuff bleaching process. 3,454,402, 7-8-69, Cl. 96-99.
Anderau, Walter; and Schaller, Heinrich, to Ciba Limited. Process for the preparation of photographic silver halide emulsions by the flocculation method. 3,455,694, 7-15-69, Cl. 96-94.
Anderegg, John S., Jr.; and Fuller, Chester A., to Dynamics Research Corporation. Precision shaft encoder having means to eliminate the effect of translational movement. 3,482,106, 12-2-69, Cl. 250-231.
Anderes, Max, to Oerlikon Buhrle Holding Ltd. Overload clutch for machine tools, particularly lathes. 3,435,932, 4-1-69, Cl. 192-56.
Anderes, Max, to Oerlikon-Buhrle Holding Ltd. Control linkage for a feed drive of a lathe. 3,460,414, 8-12-69, Cl. 82-22.
Anderholm, Ferd R., to Miniature Electronic Components Corp. International Business Machines Corporation. Movable indicator display unit. 3,451,056, 6-17-69, Cl. 340-378.
Anderle, Joseph A., to Levolor Lorentzen, Inc. Venetian-blind hold-down bracket. 3,447,586, 6-3-69, Cl. 160-178.
Anderle, Joseph A., to Levolor Lorentzen, Inc. Venetian blind construction for limiting lift-cord dangle. 3,485,285, 12-23-69, Cl. 160-168.
Anderle, Joseph A.; and Abate, Leo, to Lorentzen, Levolor, Inc. End brace organization for venetian blind head channel or the like. 3,425,480, 2-4-69, Cl. 160-178.
Anderle, Joseph A.: *See—*
Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo,3,425,479.

Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo,3,447,585.
Anders, Bertram: *See*—
Kuhle, Engelbert; and Anders, Bertram,3,467,693.
Anders, Dietmar; and Frolich, Hans, to Berstorff, Hermann, Machinenbau GmbH. Extrusion press. 3,482,279, 12-9-69, Cl. 18-12.
Anders, Gerhard, to Hamac-Hansella Gesellschaft mit beschrankter Haftung. Discharge device for a vacuum cooker used to cook a sugar mass. 3,420,156, 1-7-69, Cl. 99-234.
Anders, Walter G., to Diebold Incorporated. Modular TV monitor housing and stand. 3,450,454, 6-17-69, Cl. 312-223.
Anders, Walter G., to Diebold, Incorporated. Tray-retainer construction for power files. 3,464,750, 9-2-69, Cl. 312-268.
Anders, Walter; Strakosch, Hans; Porth, Horst; and Bethge, Hartmut, to VEB Vereinigte NE-Metall-Halbzeugwerke Hettstedt. Method of welding bars of copper and copper alloys. 3,469,302, 9-30-69, Cl. 29-481.
Anders, Walter; and Weisselberg, Arnold, to Zentralinstitut fur Schweisstechnik der DDR. Control system for electric slag welding devices. 3,436,520, 4-1-69, Cl. 219-126.
Andersen, Allen K.; and Archipov, Vsevolod, to Continental Copper and Steel Industries, Inc. Electrolytic metal extraction. 3,483,568, 12-16-69, Cl. 204-105.
Andersen, Clifford W., to Wurlitzer Company, The. Electronic communication system. 3,475,833, 11-4-69, Cl. 35-5.
Andersen, Dan A. Wheel washer. 3,425,427, 2-4-69, Cl. 134-6.
Andersen, Donald G., to United States of America, Navy, mesne. Apparatus for producing small holes. 3,435,560, 4-1-69, Cl. 51-5.
Andersen, Eli Frank, to West Company, The. Method and system for making a container closure. 3,446,170, 5-27-69, Cl. 113-121.
Andersen, Erik B., to Worthington Corporation. Means to reduce starting torque requirements for large centrifugal compressors. 3,461,686, 8-19-69, Cl. 62-510.
Andersen, Frank T.: *See*—
Derbyshire, Charles E.; and Andersen, Frank T.,3,436,707.
Andersen, Fred R.: *See*—
Flajole, Henry J.; Andersen, Fred R.; and Thompson, Dale A.,3,463,236.
Andersen, H. W., Products, Inc.: *See*—
Andersen, Harold Willids; Andersen, Harold W.; and Harrison, Charles H., 3,476,506.
Andersen, Hans Christian: *See*—
Sparso, Viggo H.; and Nielsen, Anders, 3,429,618.
Andersen, Harold W.: *See*—
Andersen, Harold Willids; Andersen, Harold W.; and Harrison, Charles H.,3,476,506.
Andersen, Harold Willids; Andersen, Harold W.; and Harrison, Charles H., to Andersen, H. W., Products, Inc. Sterilization apparatus. 3,476,506, 11-4-69, Cl. 21-91.
Andersen, Harold W., to Andersen, H.W., Products, Inc. Method and apparatus for checking and testing the effectiveness of sterilization. 3,440,144, 4-22-69, Cl. 195-103.5
Andersen, H.W., Products, Inc.: *See*—
Andersen, Harold W., 3,440,144.
Andersen, Ingar F.; and Brew, Richard D., to Brew, Richard D., Co., Inc. Electric heating element. 3,420,985, 1-7-69, Cl. 219-553.
Andersen, Ingar F.; Brew, Richard D.; and Duggan, John J., to Brew, Richard D., and Company, Incorporated. Heat-treating quench furnace. 3,429,563, 2-25-69, Cl. 266-4.
Andersen, Johan R.; Smith, Arnold R.; and Williamson, Andrew H., Jr., to Bell Telephone Laboratories, Incorporated. Rotatable connection. 3,426,308, 2-4-69, Cl. 339-5.
Andersen, John W., to Schjeldahl, G. T., Company. Glass fabric structure and method of making the same. 3,446,661, 5-27-69, Cl. 117-227.
Andersen, Kare: *See*—
Szeupak, Peter; and Andersen, Kare,3,477,730.
Andersen, Keith M. Method of and means for filling pneumatic tires with comminuted elastic material. 3,450,170, 6-17-69, Cl. 141-5.
Andersen, Lester Hans, to Clear Air Waste Reduction. Incinerator having improved scrubber. 3,447,287, 6-3-69, Cl. 55-85.
Andersen, Lester H., to Clear-Air Waste Reduction, Inc. Reciprocating grate structure. 3,451,364, 6-24-69, Cl. 110-38.
Andersen, Per F. Wave machine installations. 3,477,233, 11-11-69, Cl. 61-1.
Andersen, Robert D., to Sunbeam Corporation. Electronic clock using counters with display indicator means and fast reset means. 3,456,152, 7-15-69, Cl. 315-84.6
Andersen, Robert Leslie; Izumi, Hideki Danny; and Stinchelfer, Jonathan Jerold, to Kaiser Aerospace & Electronics Corporation. Waveform generator circuit for generating triangular and rectangular waveform outputs from ramp waveform input. 3,475,622, 10-28-69, Cl. 307-228.
Andersen, Roger K., to Parker-Hannifin Corporation. Midstroke locking actuator. 3,451,313, 6-24-69, Cl. 91-45.
Andersen, Viggo Kogs; and Pedersen, Jorgen Kaas, to Danfoss A/S. Method of manufacturing ceramic dielectrics and resistances from the same composition ceramic material. 3,474,043, 10-21-69, Cl. 252-520.
Anderson, A. E., Construction Corporation: *See*—
Berczynski, Frank A., 3,456,937.
Anderson, Adolph. Automatic coupling for hoisting heavy loads. 3,428,356, 2-18-69, Cl. 294-110.
Anderson, Alan S.: *See*—
Nichols, Ivan A.; and Anderson, Alan S.,3,441,348.
Anderson, Albert E., to Collins Radio Company. Frequency controlled oven. 3,465,127, 9-2-69, Cl. 219-494.
Anderson, Alf P. Pulley and shaft support attachment for a rotary motor. 3,456,519, 7-22-69, Cl. 74-242.14
Anderson, Alfred G.: *See*—
Southerland, Arthur, Jr.; Cirer, Frank H.; and Anderson, Alfred G.,3,480,157.
Anderson, Allan G., to Standard Pressed Steel Co. Panel fastener. 3,449,004, 6-10-69, Cl. 287-189.36
Anderson, Amos R., to Packo, Joseph J. Detection of gas leaks. 3,483,736, 12-16-69, Cl. 73-40.7
Anderson, Andrew W., to Scandia Packaging Machinery Company. Wrapping machines. 3,462,915, 8-26-69, Cl. 53-230.
Anderson, Arne H., to Wood, John, Company. Collapsible handcart. 3,464,715, 9-2-69, Cl. 280-36.
Anderson, Arthur E., to United States of America, Army, mesne. Low light level camera tube. 3,487,259, 12-30-69, Cl. 315-11.
Anderson, Arthur F., to Ulrich Manufacturing Co., mesne. Pump. 3,426,686, 2-11-69, Cl. 103-3.
Anderson, Axel F. L.: *See*—
Engalitcheff, John, Jr.; Facius, Thomas F.; Bradley, Wilson E., Jr.; and Anderson, Axel F. L.,3,442,494.
Anderson, Bertil T.: *See*—
Fair, Donald G.; and Anderson, Bertil T.,3,453,523.
Fair, Donald G.; and Anderson, Bertil T.,3,477,006.
Anderson Bros. Mfg. Co.: *See*—
Bergstrom, Roger C., 3,481,100.
Jacobson, William P., 3,437,199.
Keas, Carl F., 3,460,314.
Keas, Carl F., 3,477,199.
Sorensen, Robert P., 3,436,894.
Sorensen, Robert P.; and Strombeck, Leo, 3,466,838.
Stohlquist, Roger H., 3,453,801.
Anderson, Bruce D.; and Sonntag, Orville C., to Web Press Engineering, Inc. Automatic blanket cylinder washer. 3,486,448, 12-30-69, Cl. 101-425.
Anderson, Bryce P., to DeSoto Chemical Coatings, Inc. Polymeric material soluble in organic solvent and based on the reaction product of boric acid with a lactam. 3,426,096, 2-4-69, Cl. 260-830.
Anderson, Carl Francis: *See*—
Heuser, Leon John; Chiang, Ching; and Anderson, Carl Francis,3,446,705.
Anderson, Carl H., to Leesona Corporation. Bobbin handling system. 3,481,441, 12-2-69, Cl. 193-32.
Anderson, Carl J.; and Meixner, Edwin J., to Sceburg Corporation, The. Record reject system. 3,437,763, 4-8-69, Cl. 179-100.4
Anderson, Carl L., to Tappan Company, The. Dual stirrer assembly. 3,431,381, 3-4-69, Cl. 219-10.55
Anderson, Carl L.: *See*—
Lamb, John T.; and Anderson, Carl L.,3,480,374.
Anderson, Carl M.: *See*—
Lavigne, William J., Jr.; Osborne, William T.; and Anderson, Carl M.,3,443,572.
Anderson, Carl M.; and Endress, James W., to Carrier Corporation. Compressor control. 3,421,685, 1-14-69, Cl. 230-114.
Anderson, Carl O. Automatic felter. 3,472,428, 10-14-69, Cl. 222-168.5
Anderson, Carl P., to SCM Corporation. Typewriter carriage decelerator. 3,444,976, 5-20-69, Cl. 197-64.
Anderson, Carroll R., to Munsingwear, Inc. Non-torque knitted fabric. 3,464,238, 9-2-69, Cl. 66-169.
Anderson, Cecil Van; and Miller, Ward B., to Owens-Corning Fiberglas Corporation. Stripper jack and forming mandrel system. 3,454,983, 7-15-69, Cl. 18-2.
Anderson, Charles E., to ESB Incorporated. Leak-resistant dry cell. 3,437,530, 4-8-69, Cl. 136-132.
Anderson, Charles E.; and Dudfield, James, to Litton Precision Products, Inc. Process of making a helix support. 3,444,615, 5-20-69, Cl. 29-600.
Anderson, Charles H., to RCA Corporation. Incoherent broadband circularly polarized maser optical pumping. 3,454,885, 7-8-69, Cl. 330-4.
Anderson, Charlie D.: *See*—
Estes, Nelson N.; Hannah, Kenneth W.; Anderson, Charlie D.; and Eversole, Charles L.,3,454,258.
Anderson, Chester Sig. Emergency hemostatic patch bandage. 3,450,136, 6-17-69, Cl. 128-325.
Anderson, Clarence A.; and Charneski, Mitchell D., to Detroit Edison Company, The. Electric incinerator. 3,467,035, 9-16-69, Cl. 110-8.
Anderson, Clayton, & Co.: *See*—
Bell, Richard J.; Campbell, Robert L.; Brust, Albert E.; and Custer, Lloyd R., 3,455,699.
Anderson, Clifford E.; and Brown, David W., to ACF Industries, Incorporated. Valve operator control having electrical switching circuitry. 3,422,328, 1-14-69, Cl. 318-103.

Anderson, Clifford E.; and Lowrey, William E., to ACF Industries, Incorporated. Lubricated gate valve having line load bearing capability. 3,442,286, 5-6-69, Cl. 137-246.22

Anderson, Clifford E.; and Zacharias, Ellis M., Jr., to ACF Industries, Incorporated. System for controlling remotely located electrically energized power operator devices. 3,422,329, 1-14-69, Cl. 318-103.

Anderson, Clifford E.: *See*—
Kinley, John C.; Kinley, Myron M.; Anderson, Clifford E.; and Potter, Rossiter R.,3,447,604.

Anderson, Clyde G.: *See*—
Wentworth, Theodore O.; and Anderson, Clyde G.,3,442,770.
Wentworth, Theodore O.; and Anderson, Clyde G.,3,480,407.

Anderson Company, The: *See*—
Krohm, Fred A., 3,429,597.
Krohm, Fred A.; and Rieckenberg, George W., 3,431,579.

Anderson, Darwin Arthur: *See*—
Mc Callister, Joseph David; Mc Math, Allen M.; and Anderson, Darwin Arthur,3,466,695.

Anderson, David P.: *See*—
Greig, James W.; and Anderson, David P.,3,462,330.

Anderson, David W.: *See*—
Tomasulo, Robert M.; Anderson, David W.; and Powers, Don M.,3,462,744.

Anderson, David W.; Mizzi, John V.; and Sparacio, Francis J., to International Business Machines Corporation. Control system for interleave memory. 3,449,723, 6-10-69, Cl. 340-172.5

Anderson, David W.; Sparacio, Francis J.; and Tomasulo, Robert M., to International Business Machines Corporation. Controller for data processing system. 3,477,063, 11-4-69, Cl. 340-172.5

Anderson, Dean R. Organic zinc feed additive and method of making same. 3,463,858, 8-26-69, Cl. 424-289.

Anderson, Dean T., to Collins Radio Company. Amplifier with hum eliminating circuit. 3,441,868, 4-29-69, Cl. 330-149.

Anderson, Dennis H.: *See*—
Bussenberger, Max E.; Anderson, Dennis H.; and Gram, Martin M.,3,442,120.

Anderson, Donald C.; and Devine, Matthew H., to Hexcel Corporation. Apparatus and method for forming a stack of sheets. 3,466,957, 9-16-69, Cl. 83-23.

Anderson, Donald C.: *See*—
Healy, James W.; Hidden, William P.; and Anderson, Donald C.,3,461,757.

Anderson, Donald J., to Chevron Research Company. Trithione-tervalent phosphorus reaction product and lubricating oil containing same. 3,427,246, 2-11-69, Cl. 252-46.6

Anderson, Donald J., to Chevron Research Company. Aryl nitroso compounds. 3,445,531, 5-20-69, Cl. 260-647.

Anderson, Donald J., to Chevron Research Company. Polyalkylene sulfides, sulfoxides and sulfones. 3,449,440, 6-10-69, Cl. 260-607.

Anderson, Donald J., to Chevron Research Company. Trithione polyamine reaction products. 3,459,664, 8-5-69, Cl. 252-47.

Anderson, Donald J. Means for measuring the power in an electrical circuit. 3,486,115, 12-23-69, Cl. 324-142.

Anderson, Donald R.; and Ballinger, Edwin R., to United States of America, Air Force. Implantable radiation assembly for circulating systems. 3,434,467, 3-25-69, Cl. 128-1.1

Anderson, Donald R.: *See*—
Struck, Charles R.; and Anderson, Donald R.,3,459,060.

Anderson, Edward William, to Smiths Industries Limited. Navigation apparatus for vehicles. 3,426,431, 2-11-69, Cl. 33-1.

Anderson, Elden J. Sanitary litter box for pets. 3,482,546, 12-9-69, Cl. 119-1.

Anderson Electric Corporation: *See*—
Campbell, Paul K., 3,484,541.
Farrington, John A., Jr.; Flynn, Gordon L.; Phillips, Stancel D.; and Scott, John V., 3,470,528.
Reid, Laurie M.; Ferguson, James V.; and McDurmont, Walter R., 3,466,844.

Anderson, Emmett E., to National Telephone Supply Company, The. Dead end connector and connection for aluminum conductors. 3,426,143, 2-4-69, Cl. 174-79.

Anderson, Ernest L., to South African Iron and Steel Industrial Corporation Limited. Zone refining. 3,428,437, 2-18-69, Cl. 23-301.

Anderson, Everett G. Fence post driving apparatus. 3,446,296, 5-27-69, Cl. 175-19.

Anderson, Everett R., to Pacific Pipeline Construction Company. Conveyor for pipe sections. 3,446,367, 5-27-69, Cl. 214-1.

Anderson, Frederick N.; Kennedy, Richard N.; and Reed, Robert A., to Bell Telephone Laboratories, Incorporated. Digital speech interpolation communication system. 3,424,869, 1-28-69, Cl. 179-15.55

Anderson, George de Winter; and Pemberton, Denis, to Imperial Chemical Industries Limited. Process for the reductive dimerization of unsaturated nitriles. 3,463,806, 8-26-69, Cl. 260-465.8

Anderson, George Edward; and Willis, Donald Henry, to RCA Corporation. Video peaking control network. 3,487,165, 12-30-69, Cl. 178-7.5

Anderson, George W. Device for forming snow barriers. 3,435,545, 4-1-69, Cl. 37-10.

Anderson, Gerald A. Method of making humus by acrating a mixture of cachaza and protein. 3,445,220, 5-20-69, Cl. 71-9.

Anderson, Gerald R., to FMC Corporation. Self-contouring drupe pitting head. 3,420,285, 1-7-69, Cl. 146-28.

Anderson, Gerald R., to FMC Corporation. Cut end ejector. 3,424,216, 1-28-69, Cl. 146-81.

Anderson, Gerald V.; and Beeson, Phillip A., to North American Rockwell Corporation. Portable welding chamber. 3,424,891, 1-28-69, Cl. 219-121.

Anderson, Glen W.: *See*—
Hutchison, Stanley O.; Anderson, Glen W.; and McKinnell, John C.,3,463,231.
Hutchison, Stanley O.; Anderson, Glen W.; and Mc Kinnell, John C.,3,486,560.

Anderson, Glenn R., to Minnesota Mining and Manufacturing Company. Magnetically responsive powder applicator. 3,455,276, 7-15-69, Cl. 118-637.

Anderson, Glenn R.; and Svendsen, John A., to Minnesota Mining and Manufacturing Company. Contact printer. 3,428,400, 2-18-69, Cl. 355-117.

Anderson, Gordon Campbell: *See*—
Von Kaenel, John Clifford; Anderson, Gordon Campbell; and Seymore, Stephen David, Jr.,3,479,699.

Anderson, Gordon S.: *See*—
Becka, Michael M.; and Anderson, Gordon S.,3,436,781.
Becka, Michael M.; and Anderson, Gordon S.,3,444,591.

Anderson, Grant D. Method and apparatus for making reinforced and non-reinforced elastomeric sheet material. 3,443,003, 5-6-69, Cl. 264-171.

Anderson, Grant D. Making of V-belts. 3,482,004, 12-2-69, Cl. 264-25.

Anderson, Greenwood & Co.: *See*—
Powell, Walter W., 3,477,456.
Schomer, Marion L.; and Weise, Irvin, 3,467,357.

Anderson, Hans Christian: *See*—
Sparso, Viggo H.; and Larsen, Leif, 3,474,624.

Anderson, Harold C. Reciprocating razor. 3,481,035, 12-2-69, Cl. 30-46.

Anderson, Harold F., to Celanese Corporation. Reed threading aid means. 3,422,513, 1-21-69, Cl. 28-54.

Anderson, Harold N.: *See*—
Conner, Joseph R.; Helm, Jack D.; and Anderson, Harold N.,3,460,313.
Woserau, Otto; and Anderson, Harold N.,3,440,954.

Anderson, Harry C., to General Electric Company. Method and apparatus for locating voids in an insulated electrical cable. 3,440,528, 4-22-69, Cl. 324-52.

Anderson, Harvey B. Lens cover for telescopic sight. 3,426,433, 2-11-69, Cl. 33-50.

Anderson, Hattie T.: *See*—
Anderson, Martin; and Anderson, Hattie T.,3,438,068.

Anderson, Henry A.: *See*—
Hicks, Robert M.; and Anderson, Henry A.,3,460,675.

Anderson, Herbert R., Jr., to International Business Machines Corporation. Thermoplastic recording technique. 3,441,939, 4-29-69, Cl. 346-1.

Anderson, Howard Irvine, to Du Pont de Nemours, E. I., and Company. Pump expansion chamber. 3,426,691, 2-11-69, Cl. 103-87.

Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A., to Caterpillar Tractor Company. Noise reducing enclosure for a gas turbine engine. 3,462,949, 8-26-69, Cl. 60-39.31

Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A., to Caterpillar Tractor Company. Gas turbine engines. 3,485,442, 12-23-69, Cl. 230-232.

Anderson, Howard W., to Kaydon Engineering Corporation, The. Method and apparatus for forming a flange on thin shell bearings. 3,424,893, 1-28-69, Cl. 219-149.

Anderson, Jack P.: *See*—
Jenny, Jacques; Teti, John; and Anderson, Jack P.,3,476,190.

Anderson, James A.: *See*—
Schwartz, Seymour I.; Wingrove, Robert C.; and Anderson, James A.,3,421,511.

Anderson, James H. Quick disconnect flexible couplings and hub mountings. 3,427,826, 2-18-69, Cl. 64-13.

Anderson, James H. Process and apparatus for separating water from an aqueous solution. 3,442,801, 5-6-69, Cl. 210-59.

Anderson, James H. Radially deflectable concentric pipe support. 3,469,607, 9-30-69, Cl. 138-113.

Anderson, James H. Mechanical shaft seal. 3,480,285, 11-25-69, Cl. 277-88.

Anderson, James H.; and Spruitenburg, Marinus J., to Borg-Warner Corporation. Means for securing a rotor on a shaft. 3,467,419, 9-16-69, Cl. 287-53.

Anderson, James J.: *See*—
Camacho, Vasco G.; Anderson, James J.; and Byrd, Wendell M., Jr.,3,465,068.
Lannert, James W.; and Anderson, James J.,3,477,825.
Thomas, Jess W.; Brown, Joshua R. C.; and Anderson, James J.,3,445,194.

Anderson, James William, to Anco Plastics Pty. Limited. Injection molding of shoe soles and heels from plastic materials. 3,484,901, 12-23-69, Cl. 18-30.
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James,3,469,272.
Anderson, Jarl H.; and Deeley, Leman A. Activator for level wire winder. 3,456,898, 7-22-69, Cl. 242-158.4
Anderson, Jarl H.; Schlinger, Robert Charles; and Hall, John R., to Bunn, B. H., Company. Twine supply holder. 3,456,897, 7-22-69, Cl. 242-141.
Anderson, Jesse I.; and Olson, Dale G., to United States of America, Atomic Energy Commission. Rotational technique for assessing quantity and distribution of body radioactivity. 3,431,413, 3-4-69, Cl. 250-71.5
Anderson, John C.: *See—*
Gove, Harvey H.; and Anderson, John C.,3,427,685.
Anderson, John E., to Nebraska, State of. Roadway irregularity marking device. 3,453,877, 7-8-69, Cl. 73-146.
Anderson, John E., to Phillips Petroleum Company. Production of 2-(ethylthio) ethanol. 3,487,113, 12-30-69, Cl. 260-609.
Anderson, John E.; Holloway, Francis H.; and Steen, William A., to Rexall Drug and Chemical Company. Paddle-type polymerization reactor. 3,469,948, 9-30-69, Cl. 23-285.
Anderson, John E.; Parish, Clyde E.; and Ross, George H., to Signal Oil & Gas Company. Method for the production of alkali and alkaline earth metal alkyl carbonates and thiolcarbonates. 3,445,497, 5-20-69, Cl. 260-455.
Anderson, John F., to Goodrich, B. F., Company, The. Method of releasably adhering sponge backed carpet to floor surfaces and adhesive used therefor. 3,442,731, 5-6-69, Cl. 156-71.
Anderson, John L.; and Leilich, Hans-Otto G., to International Business Machines Corporation. Orthogonal mode switching transformer. 3,436,747, 4-1-69, Cl. 340-174.
Anderson, John Lynde, to Cleanometer Corporation. Method for examining surfaces using chemical mixtures selected to produce known effects if certain surface conditions exist. 3,445,657, 5-20-69, Cl. 250-71.
Anderson, John M.: *See—*
Goodman, Ernest A.; Mutschler, William H., Jr.; and Anderson, John M.,3,443,113.
Anderson, John M., to General Electric Company. Thermal switch heated by a light sensitive gas tube. 3,483,394, 12-9-69, Cl. 307-117.
Anderson, John R.; *See—*
McAvoy, Thomas R.; and Anderson, John R.,3,436,876.
Anderson, John Robert; and Work, George A., to Hughes Aircraft Company. Ion rocket. 3,465,522, 9-9-69, Cl. 60-202.
Anderson, John R., to Heppenstall Company. Tiltable lifting tongs. 3,436,116, 4-1-69, Cl. 294-103.
Anderson, John W. Dispensing cap. 3,422,997, 1-21-69, Cl. 222-542.
Anderson, Johnny W. Apparatus for moving molten metal. 3,477,615, 11-11-69, Cl. 222-193.
Anderson, Jon E., to General Electric Company. High frequency light source. 3,459,942, 8-5-69, Cl. 250-199.
Anderson, Joseph J.; and Tucci, Morris L., to Warwick Electronics Inc., mesne. Combination tab selector. 3,472,114, 10-14-69, Cl. 84-345.
Anderson, Joseph Percival: *See—*
Daly, Brian Bowman; Baker, Alex Gerard James; and Anderson, Joseph Percival,3,433,145.
Anderson, Kay, to Pictorial Productions, Inc.Golfer's head movement indicating device. 3,468,545, 9-23-69, Cl. 273-183.
Anderson, Kelvin G., to Weldotron Corporation. Packaging method and apparatus. 3,462,909, 8-26-69, Cl. 53-41.
Anderson, Kermit V., to Washington Scientific industries, Inc. Film viewer. 3,479,116, 11-18-69, Cl. 353-77.
Anderson, Lawrence G.; and Anderson, Le Roy M., to TRW Inc. Pressed metal bearing housing. 3,477,772, 11-11-69, Cl. 308-187.
Anderson, Le Roy M.: *See—*
Anderson, Lawrence G.; and Anderson, Le Roy M.,3,477,772.
Anderson, Leonard A. Self-operated elevator. 3,464,520, 9-2-69, Cl. 182-142.
Anderson, Lester F.; Parsons, George W.; and Petts, Ronald G., to Sylvania Electric Products, Inc. Photoflash adapter. 3,430,038, 2-25-69, Cl. 240-1.3
Anderson, Little A., Jr.: *See—*
Howes, Irving C.; Anderson, Little A., Jr.; and Netti, Anthony,3,460,204.
Anderson, Lloyd L., to Amerock Corporation. Hinge. 3,431,590, 3-11-69, Cl. 16-168.
Anderson, Lloyd L., to Amerock Corporation, mesne. Magnetic catch. 3,438,665, 4-15-69, Cl. 292-251.5
Anderson, Lowell Ray; and Fox, William B., to Allied Chemical Corporation. Process for preparing bis(trifluoromethyl)trioxide. 3,436,424, 4-1-69, Cl. 260-610.
Anderson, Lyle V., to Blaw-Knox Company. Reel drum lateral movement control. 3,477,655, 11-11-69, Cl. 242-57.1
Anderson, Malkolm V., to United States of America, Atomic Energy Commission. Three dimensional flexible dovetail honeycomb. 3,432,379, 3-11-69, Cl. 161-68.
Anderson Manufacturing Company: *See—*
Anderson, Robert F., 3,437,368.
Anderson, Martin; and Anderson, Hattie T. Self-tucking fitted sheet. 3,438,068, 4-15-69, Cl. 5-334.
Anderson, Maynard E.; Balaz, Charles S.; Reus, John F.; and Thorson, Sheldon E., to Friden, Inc. Postage meter. 3,469,777, 9-30-69, Cl. 235-101.
Anderson, Nealie T.: *See—*
Bradley, Claude G.; and Anderson, Nealie T.,3,471,433.
Anderson, Nils T.; and Hearon, William M., to Crown Zellerbach Corporation. Process of forming electrostatic printing paper from ionic fibrous cellulosic derivatives and paper thereof. 3,420,734, 1-7-69, Cl. 162-135.
Anderson, Norman J. Transducer circuits with frequency amplitude control. 3,437,920, 4-8-69, Cl. 324-57.
Anderson, Norman J., to Zurn Industries, Inc. Pilot bearing for disconnect coupling. 3,451,515, 6-24-69, Cl. 192-67.
Anderson, Norman J., to Zurn Industries, Inc. Detent mechanism for disconnect couplings. 3,475,043, 10-28-69, Cl. 287-104.
Anderson, Norman J.; and Decker, John L., to Zurn Industries, Inc. Synchronizing flexible coupling. 3,480,123, 11-25-69, Cl. 192-53.
Anderson, Norman L., to Allied Chemical Corporation. Phthalocyanine dyestuffs for ball-point pen inks. 3,470,200, 9-30-69, Cl. 260-314.5
Anderson, Norman L.; Darnall, Millard K.; Morgan, William C.; Peterson, Laurel L.; and Stedman, Robert N., to Caterpillar Tractor Company. Transport vehicle for bucket loaders. 3,478,902, 11-18-69, Cl. 214-38.
Anderson, Norman L.; and Litke, Alvin C., to Allied Chemical Corporation. Dyestuffs for ball point pen inks. 3,470,201, 9-30-69, Cl. 260-314.5
Anderson, Orin M. Loading mechanism for front end loading refuse vehicles. 3,474,923, 10-28-69, Cl. 214-302.
Anderson, Paul G., 33 1/3% to Parsons, Freeman A., and 33 1/3% to Wells, Floyd H. Seat for a bench. 3,431,023, 3-4-69, Cl. 297-452.
Anderson, Paul L., to Cherry-Burrell Corporation. Orientor for cans to be loaded into cases. 3,462,912, 8-26-69, Cl. 53-159.
Anderson, Philip Carlton; and Rapp, Janet Lorraine Cooper, to Feed Service Corporation. Nutrient blocks containing gum arabic. 3,476,565, 11-4-69, Cl. 99-2.
Anderson, Philip Carlton; and Rapp, Janet Lorraine Cooper, to Feed Service Corporation. Liquid animal feed compositions and process for preparing same. 3,484,243, 12-16-69, Cl. 99-2.
Anderson, Philip N., to TRW Inc. Pneumatic tube deployment means, and solar cell therewith. 3,477,662, 11-11-69, Cl. 244-1.
Anderson, Philip R.: *See—*
Miles, Russel T.; and Anderson, Philip R.,3,440,778.
Anderson, Ralph F., to Goodrich, B. F., Company, The. Chlorine cell with flexible elastomeric cover. 3,450,621, 6-17-69, Cl. 204-219.
Anderson, Ralph F., to Keystone Consolidated Industries, Inc. Drawer slide, roller and controlled guide. 3,482,888, 12-9-69, Cl. 308-3.8
Anderson, Ralph F.: *See—*
Villemure, Fred W.; and Anderson, Ralph F.,3,420,037.
Anderson, Ralph, to United Aircraft Corporation. Process for forming a gel within a container. 3,427,368, 2-11-69, Cl. 264-3.
Anderson, Raymond V.: *See—*
Economy, James; and Anderson, Raymond V.,3,429,722.
Anderson,Richard D., to Kimberly-Clark, Corporation. Slitting apparatus for cutting cellulosic pads from wadding web. 3,461,766, 8-19-69, Cl. 83-255.
Anderson, Richard D., to Kimberly-Clark Corporation. Sweep transfer apparatus for a descending stack of cellulosic pads or the like. 3,425,534, 2-4-69, Cl. 198-23.
Anderson, Richard E., to General Electric Company. Fastener for unsealed indicator cases. 3,444,988, 5-20-69, Cl. 206-1.
Anderson, Richard M.: *See—*
Clampitt, Rodney B.; Birum, Gail H.; and Anderson, Richard M.,3,468,678.
Anderson, Richard N., to Anderson, V. E., Mfg., Co. Window structure. 3,464,160, 9-2-69, Cl. 49-181.
Anderson, Richard N.; and Art, Alfred C., to Anderson, V. E., Mfg. Co. Building structure. 3,444,648, 5-20-69, Cl. 49-248.
Anderson, Richard N.; and Kabine, Kenneth Howard, to Anderson, V. E., Mfg. Co. Process of producing permanently colored aluminum. 3,468,767, 9-23-69, Cl. 204-37.
Anderson, Richard S. Automatic self-load compensating variable speed transmission. 3,465,357, 9-2-69, Cl. 242-191.
Anderson, Robert E., to Dow Chemical Company, The. Process for producing an acid and a basic salt from an alkali metal halide. 3,441,376, 4-29-69, Cl. 23-129.
Anderson, Robert E., to Bell Telephone Laboratories, Incorporated. Relay interlock circuit. 3,466,505, 9-9-69, Cl. 317-136.

Anderson, Robert E.; and Gouin, Albert J., to Dow Chemical Company, The. Process for increasing the chemical resistance of organic products. 3,460,965, 8-12-69, Cl. 117-47.

Anderson, Robert E.; and Jones, Giffin D., to Dow Chemical Company, The. Desalination of water with thermally reversible water-swellable resins. 3,438,893, 4-15-69, Cl. 210-59.

Anderson, Robert E.: *See—*
Hollenbeck, Clifford M.; and Anderson, Robert E.,3,446,708.

Anderson, Robert F., to Anderson Manufacturing Company, mesne. Ball retriever. 3,437,368, 4-8-69, Cl. 294-19.

Anderson, Robert Gordon: *See—*
Honnen, Lewis R.; and Anderson, Robert Gordon,3,438,757.

Anderson, Robert Griffin; and Sharman, Samuel H., to Chevron Research Company. Selective alkylation of phenol. 3,423,474, 1-21-69, Cl. 260-624.

Anderson, Robert I.; and Bayne, Donald E., to Brunswick Corporation. Means for simulating the rough on a golf course. 3,459,107, 8-5-69, Cl. 94-7.

Anderson, Robert I.; and Bayne, Donald E., to Brunswick Corporation. Golf ball driving area including sand trap simulating means. 3,466,048, 9-9-69, Cl. 273-176.

Anderson, Robert J.: *See—*
Seel, Howard J.; and Anderson, Robert J.,3,453,955.

Anderson, Robert L.; Dyke, Walter P.; and Grundhauser, Frank J., to Field Emission Corporation. High voltage storage module, pulse generator and system. 3,432,663, 3-11-69, Cl. 250-98.

Anderson, Robert L.; and Rohrig, John M., to United States Steel Corporation. Seating arrangement for subsurface pumps. 3,479,958, 11-25-69, Cl. 103-46.

Anderson, Robert M. Humidistat. 3,439,136, 4-15-69, Cl. 200-61.06

Anderson, Robert O. Electrically heated ice cream scoop. 3,476,059, 11-4-69, Cl. 107-48.

Anderson, Robert R.: *See—*
Cirrincione, Gilbert; and Anderson, Robert R.,3,482,768.

Anderson, Robert W., Jr.: *See—*
Robinson, Gordon S.; and Anderson, Robert W., Jr.,3,463,201.

Anderson, Robert W., to Haveg Industries, Inc. Electrical conductor with light-weight electrical shield. 3,484,532, 12-16-69, Cl. 174-36.

Anderson, Rodney H.; Black, William J.; and Miller, Lawrence J., to Caterpillar Tractor Company. Apparatus for improving the stability of an elevator scraper during unloading. 3,483,640, 12-16-69, Cl. 37-8.

Anderson, Roger. Anaesthesiology draping screen frame structure. 3,476,256, 11-4-69, Cl. 211-86.

Anderson, Roland M.; and Klein, Paul E. Method and apparatus for making dental mouthpiece. 3,429,045, 2-25-69, Cl. 32-32.

Anderson, Rolland L., to Champion Spark Plug Company. Liquid dispersion means. 3,458,297, 7-29-69, Cl. 48-180.

Anderson, Roy A., to Baxter Laboratories, Inc. Blood serum reference standard for multi-automated analytical procedures. 3,466,249, 9-9-69, Cl. 252-408.

Anderson, Roy D.: *See—*
Schmidt, Earl O.; and Anderson, Roy D.,3,460,846.

Anderson, Roy H.; and Lemery, Douglas J., to Atlas Chain Co., Ltd. Double action press tool. 3,425,260, 2-4-69, Cl. 72-403.

Anderson, Roy J. Drafting board. 3,486,770, 12-30-69, Cl. 281-45.

Anderson, Roy M.: *See—*
Lynn, Lawrence; and Anderson, Roy M.,3,432,309.

Anderson, Roy S., to Deering Milliken Research Corporation. Removing organic accelerators from vulcanized elastomers. 3,461,105, 8-12-69, Cl. 260-75.

Anderson, Russell H.; and Campanelli, John P., to Haskon, Inc. Plastic container construction. 3,454,690, 7-8-69, Cl. 264-98.

Anderson, Spangler & Wymore: *See—*
Murphy, Harry E., 3,477,645.

Anderson, Tage O.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,413.
United States of America,National Aeronautics and Space Administration, Administrator, 3,447,155.

Anderson, Thomas P.; and Beispel, Robert, to Microseal Corporation. Film mounting assembly. 3,429,101, 2-25-69, Cl. 53-255.

Anderson, Thomas T., to United States of America, Atomic Energy Commission. Phantastron drive for ignitrons. 3,482,144, 12-2-69, Cl. 315-196.

Anderson, Thure; and Lorbeer, Ernest H., to United States of America, Atomic Energy Commission. Optical extensometer. 3,421,819, 1-14-69, Cl. 356-32.

Anderson, V. E., Mfg. Co.: *See—*
Anderson, Richard N.; and Art, Alfred C., 3,444,648.
Anderson, Richard N., 3,464,160.
Anderson, Richard N.; and Kabine, Kenneth Howard, 3,468,767.
Brown, John M., Jr., 3,462,882.

Anderson, Victor C.; and Schmidtmann, Victor H., to United States of America, Navy, mesne. Thermally operated release mechanism. 3,454,286, 7-8-69, Cl. 285-21..

Anderson, Victor F., to Shell Oil Company. Modular display bin. 3,432,061, 3-11-69, Cl. 220-7.

Anderson, Victor F., to Shell Oil Company. Prefabricated plastic chair and assembly method. 3,455,605, 7-15-69, Cl. 297-445.

Anderson, Victor F., to Shell Oil Company. Plastic container having integral molded bail handle. 3,481,501, 12-2-69, Cl. 215-100.

Anderson, Vincent H., to Bliss, E. W., Company. Self-contained die cushion with air saver. 3,451,667, 6-24-69, Cl. 267-1.

Anderson, Vincent Hugo, to Bliss, E. W., Company. Press inclining mechanism. 3,422,750, 1-21-69, Cl. 100-231.

Anderson, Walter M., Jr., to Texas Instruments, Incorporated. Condition controller with bistable switching. 3,426,969, 2-11-69, Cl. 236-78.

Anderson, Weston A., to Varian Associates. Apparatus for improving the homogeneity of a magnetic field. 3,469,180, 9-23-69, Cl. 324-0.5

Anderson, Weston A.; and Ernst, Richard, to Varian Associates. Impulse resonance spectrometer including a time averaging computer and fourier analyzer. 3,475,680, 10-28-69, Cl. 324-0.5

Anderson, Weston A.: *See—*
Nelson, Forrest A.; Anderson, Weston A.; and Rock, John V.,3,443,209.

Anderson, Wilbur Glenn. Adjustable container. 3,455,499, 7-15-69, Cl. 229-40.

Anderson, Willard E., to Honeywell Inc. Refractometers. 3,426,211, 2-4-69, Cl. 250-218.

Anderson, William E., to Riegel Paper Corporation. Packaging material and method of manufacturing the same. 3,467,296, 9-16-69, Cl. 229-3.1

Anderson, William R.; Pescetti, Anthony; and Dakin, William V. Controlled release formulation. 3,428,729, 2-18-69, Cl. 424-19.

Anderson, William S., to Shell Oil Company. Lubricant compositions. 3,449,249, 6-10-69, Cl. 252-51.5

Anderson, William S., to Shell Oil Company. Lubricant compositions. 3,484,857, 12-16-69, Cl. 252-45.

Anderson, William W., Jr.: *See—*
Sweet, George E.; Anderson, William W., Jr.; and Miller, Howard B.,3,433,953.

Anderson, William W., to United States of America, Navy. Pulse dependent feedback system for measuring changes in a physical phenomenon. 3,461,382, 8-12-69, Cl. 324-43.
Rollett, Anthony Victor; Smith, Alexander Steel; Cookson, Martin Alan; and Anderson, William,3,485,188.

Anderson, Wilmer C., to General Time Corporation. Electronic dividing system for determining the ratio of two differences. 3,424,980, 1-28-69, Cl. 324-103.

Anderson, Wilmer C., to General Time Corporation. Binary-decimal pulse encoder. 3,425,053, 1-28-69, Cl. 340-347.

Anderson, Wilmer C., to General Time Corporation. Remote control system including circuitry for superimposing higher frequency control signals on a supply line carrier wave. 3,461,428, 8-12-69, Cl. 340-147.

Anderson, Wilmer C.; and Firestone John H., to General Time Corporation. Remote control system including circuitry for superimposing control signals on selected half cycles of a supply line carrier wave. 3,451,052, 6-17-69, Cl. 340-310.

Anderson, Wilmer C.; and Rennie, Frank P., to General Time Corporation. Bistable magnetic device. 3,421,024, 1-7-69, Cl. 307-282.

Anderson, Winfield S., Jr., to Owens-Illinois, Inc. Method and apparatus for decorating hollow plastic articles. 3,478,680, 11-18-69, Cl. 101-32.

Andersson, Anders Ingvar, to AB Bonnierforetagen. Means for separating and stacking newspapers and the like. 3,477,591, 11-11-69, Cl. 214-6.5

Andersson, Bjorn A. H.: *See—*
Agren, Sven Birger; Andersson, Bjorn A. H.; and Andersson, Nils Svante,3,480,117.

Andersson, C-A, & Co. Kommanditbolag: *See—*
Andersson, Carl-Axel, 3,486,324.

Andersson, Carl-Axel, to Andersson, C-A, & Co. Kommanditbolag. Coin-operated time meter. 3,486,324, 12-30-69, Cl. 58-141.

Andersson, Carl-Erik; and Krook, Rune, to Kockums Mekaniska Verkstads Aktiebolag. Tools for timber harvesting and dividing apparatus. 3,457,976, 7-29-69, Cl. 144-221.

Andersson, Carl Erik; and Krook, Rune, to Kockums Mekaniska Verkstads Aktiebolag. Apparatus for harvesting standing timber or dividing trees into sections. 3,457,977, 7-29-69, Cl. 144-309.

Andersson, Craig R.: *See—*
Kirk, Merritt C., Jr.; and Andersson, Craig R.,3,437,702.

Andersson, Hilding Gustav Vincent, to Osby Pumpindustri. Submersible centrifugal pump. 3,446,151, 5-27-69, Cl. 103-111.

Andersson, Hugo. Apparatus for screening bulk material. 3,477,573, 11-11-69, Cl. 209-260.

Andersson, Ingemar R.: *See—*
Orendorff, John W.; Boetto, Charles; and Andersson, Ingemar R.,3,436,098.

Andersson, Kurt Allan: *See—*
Jakobsson, Rolf Elis; and Andersson, Kurt Allan,3,448,900.

Andersson, Lars Goran: *See—*
Carlsson, Lennart Inge; and Andersson, Lars Goran,3,474,899.

Andersson, Lennart R. Movable concrete form with a pair of endless flexible mats. 3,451,108, 6-24-69, Cl. 25-131.

Andersson, Louis. Method and apparatus for afterburning exhaust gases. 3,444,687, 5-20-69, Cl. 60-30.
Andersson, Nils Eric, to Allmanna Svenska Elektriska Aktiebolaget. Semi-conductor device comprising two parallel- connected semiconductor systems in pressure contact. 3,447,042, 5-27-69, Cl. 317-234.
Andersson, Nils Eric; and Lilja, Goran, to Allmanna Svenska Elektriska Aktiebolaget. Rotating rectifier device. 3,470,405, 9-30-69, Cl. 310-68.
Andersson, Nils Svante: *See*—
Agren, Sven Birger; Andersson, Bjorn A. H.; and Andersson, Nils Svante,3,480,117.
Andersson, Per L.; and Aberth, Oliver G., to Sperry Rand Corporation. Check digit verifiers. 3,431,406, 3-4-69, Cl. 235-153.
Andersson, Runc: *See*—
Carlson, Henry; Lundquist, Ingvar; Danieli, Sten Henrik; and Andersson, Runc,3,427,991.
Andersson, Sven Gerhard. Apparatus for automatic manufacturing of an annular ribbon. 3,426,708, 2-11-69, Cl. 112-2.
Andersson, Torsten Wilhelm: *See*—
Ohlund, John Alex Ingvar; and Andersson, Torsten Wilhelm,3,479,032.
Anderton, Thomas L.: *See*—
Sandow, Kiyoshi; Allen, George H.; and Anderton, Thomas L.,3,461,607.
Andes, Ralph V.; and Manikowski, Donald M., to Sperry Rand Corporation. Photochromic material. 3,454,414, 7-8-69, Cl. 117-33.3
Andexler, Charles J., to Barmatic Machines, Inc. Ball joint with resilient pressure plate. 3,424,484, 1-28-69, Cl. 287-87.
Andis, Allen Richard. Tinning-oil level control for a solderwave apparatus. 3,452,916, 7-1-69, Cl. 228-36.
Andis, Ernest R. Adjustable pivotal connection mechanism with locking means. 3,423,089, 1-21-69, Cl. 273-80.1
Andis, Ernest R. Lockable golf club head adjustment. 3,430,957, 3-4-69, Cl. 273-80.1
Ando, Narumi: *See*—
Fukuda, Nobuo; Shimizu, Mineo; Matsukura, Kameo; and Ando, Narumi,3,420,718.
Ando, Ryo; Shimotsuma, Teruo; and Chihara, Kanichiro, to Nippon Kokan Kabushiki Kaisha. Hot-blast stoves. 3,477,701, 11-11-69, Cl. 263-19.
Ando, Satoshi; Tanaka, Yusaku; and Ogata, Fumimaro, to Kanegafuchi Boseki Kabushiki Kaisha. Specific conjugate composite filament. 3,458,390, 7-29-69, Cl. 161-177.
Ando, Satoshi: *See*—
Ueda, Keizo; Ando, Satoshi; and Kinoshita, Tetsuo,3,463,847.
Ando, Takeki: *See*—
Watanabe, Akinori; and Ando, Takeki,3,460,014.
Ando, Takeo: *See*—
Doi, Mineo; Miura, Masamichi; Sakuraba, Ryozo; and Ando, Takeo,3,429,692.
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko, to Japan Atomic Energy Research Institute. Method of brazing carbonaceous materials and brazing carbonaceous materials with metal and brazing material thereof. 3,439,410, 4-22-69, Cl. 29-472.7
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko, to Japan Atomic Energy Research Institute. Brazing composition for carbonaceous materials. 3,439,858, 4-22-69, Cl. 228-56.
Andolfi, Giancarlo. Framework of plastic material for umbrella, beach sunshade or parasols. 3,424,180, 1-28-69, Cl. 135-20.
Andonian Associates, Inc.: *See*—
Wright, Robert C., 3,423,955.
Wright, Robert C., Jr., 3,424,230.
Andonian, Pierre Joseph, to Universal Railway Devices Company. Handbrake for railroad cars. 3,444,756, 5-20-69, Cl. 74-505.
Andrae, Karl H., to Jeffrey Galion Manufacturing Company. Continuous muller. 3,430,874, 3-4-69, Cl. 241-98.
Andrae, Karl H., to Jeffrey Galion Manufacturing Company. Continuous mulling apparatus. 3,481,547, 12-2-69, Cl. 241-156.
Andrae, Ralph N.; and Camis, Theodore G., Jr. Model aircraft retractable landing gear. 3,431,672, 3-11-69, Cl. 46-78.
Andrassy, Stella. Temperature maintaining device. 3,463,161, 8-26-69, Cl. 128-402.
Andrault, Francois Paul, to Societe Anonyme Financiere & Auxiliaire du Textile. Machine for aligning stripes of fabrics woven on circular looms. 3,430,589, 3-4-69, Cl. 112-2.
Andre, Joseph Gustave Etienne: *See*—
Langlet, Jean; and Andre, Joseph Gustave Etienne,3,442,005.
Andre Rubber Company Limited: *See*—
Torr, Ralph P., 3,465,089.
Andre, Stephen N.; Hettich, Ronald D.; and Megargel, Leland R., to Sylvania Electric Products Inc. Electronically controlled azimuth scanning antenna system. 3,434,142, 3-18-69, Cl. 343-100.
Andrea, John J., to Collins Radio Company. Phase locked loop with digitalized frequency and phase discriminator. 3,431,509, 3-4-69, Cl. 331-25.
Andrea, John J.; Meier, James C.; and Hogue, Noel E., to Collins Radio Company. Hybrid counter. 3,420,990, 1-7-69, Cl. 235-92.
Andrea, Mario I.Ship's hull. 3,439,643, 4-22-69, Cl. 114-63.
Andreades, Sam, du Pont de Nemours, E. I., and Company. Electrochemical cyanation of selected aromatic compounds. 3,431,184, 3-4-69, Cl. 204-59.
Andreades, Sam, to Du Pont de Nemours, E. I., and Company. Electrochemical dimerization of β-halopropionitriles in aqueous media. 3,475,298, 10-28-69, Cl. 204-73.
Andreades, Sam; and England, David C., to Du Pont de Nemours, E. I., and Company. Selected bis(perfluoroalkyl)ketenes. 3,423,465, 1-21-69, Cl. 260-585.5
Andreades, Sam; and England, David C., to Du Pont de Nemours, E. I., and Company. Copolymers of bis(perfluoroalkyl)ketenes with selected ethylenic compounds. 3,455,881, 7-15-69, Cl. 260-63.
Andreae, Hans Georg, to Alfa-Laval AB. Dung remover for cattle sheds. 3,456,779, 7-22-69, Cl. 198-222.
Andreae, John Hugh; Joyce, Peter Lawrence; and Gaines, Brian Ronald, to International Standard Electric Corporation. Adaptive element. 3,484,749, 12-16-69, Cl. 340-172.5
Andreaggi, Joseph R., to Weston Instruments, Inc. Lamp focusing mechanism. 3,439,160, 4-15-69, Cl. 240-44.2
Andreas Stihl Maschinenfabrik: *See*—
Rauh, Albrecht; and Heermann, Richard, 3,448,829.
Andreassen, Donald: *See*—
Herman, Irving; and Andreassen, Donald,3,434,422.
Andreassen, Jostein: *See*—
Bronnvall, Wolfgang; and Andreassen, Jostein,3,470,045.
Andreasson, Sven Ake, to Broderna Akessons Maskenfabrik AB. Hydraulic mould locking devices. 3,456,297, 7-22-69, Cl. 18-30.
Andreetta, Alberto: *See*—
Longiave, Carlo; Castelli, Renato; Andreetta, Alberto; and Garberi, Angelo,3,420,899.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto,3,453,302.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto,3,481,961.
Andreev, Vladislav Vladimirovich: *See*—
Maltabar, Vasily Markovich; Uljankin, Makhail Georgievich; and Andreev, Vladislav Vladimirovich,3,460,949.
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich. Apparatus for producing non-woven fiber material. 3,467,507, 9-16-69, Cl. 65-11.
Andren, Ingmar K. L., to AB Linde International. Power transmission controlling devices. 3,465,521, 9-9-69, Cl. 60-54.6
Andren, Ingmar Karl Linus, to Aktiebolaget Linde Maskiner. Clamp. 3,457,604, 7-29-69, Cl. 24-255.
Andren, Rolf B.: *See*—
Englund, Gosta R.; and Andren, Rolf B.,3,461,887.
Andreoli, Mario. Die-casting process using magnetic core to position preform. 3,439,732, 4-22-69, Cl. 164-112.
Andreoli, Mario. Convector-radiator. 3,470,947, 10-7-69, Cl. 165-55.
Andreotta, Kenneth E.: *See*—
Jakubowski, Theodore P.; and Andreotta, Kenneth E.,3,473,253.
Andreotti, Eugene R.; and McGee, Sherwood W., to Burgess-Norton Mfg. Co. Method of making a structural alloy steel containing copper and other alloy elements. 3,459,547, 8-5-69, Cl. 75-208.
Andrepont, Wilbur C. Apparatus for the simultaneous casting of multi- propellant solid fuel rocket motors. 3,451,104, 6-24-69, Cl. 18-26.
Andres, Frank H.; and Gentile, Anthony L., to Hughes Aircraft Company. Potassium tantalate niobate crystal growth from a melt. 3,428,438, 2-18-69, Cl. 23-301.
Andres, Karl-Heinz: *See*—
Raichle, Karl; Bruhne, Friedrich; Prater, Klaus; Nischk, Gunther; and Andres, Karl-Heinz,3,467,619.
Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Pressure-medium-actuated locking mechanism of cover or similar parts, especially of convertible tops for motor vehicles. 3,443,834, 5-13-69, Cl. 296-121.
Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Actuating mechanism for a pivotal window of a motor vehicle. 3,478,470, 11-18-69, Cl. 49-337.
Andresen, John H., Jr., to Intercontinental Dynamics Corporation. Aircraft cabin pressurization system having controlled rate of pressure change. 3,450,020, 6-17-69, Cl. 98-1.5
Andresen, John H., Jr., to Intercontinental Dynamics Corporation. Preprogrammed cabin pressurization system. 3,453,945, 7-8-69, Cl. 98-1.5
Andresen, Lorenz J.; and Halloran, John J., Jr., to Combustion Engineering, Inc. Centrifuge lubricating and seal system. 3,428,247, 2-18-69, Cl. 233-7.
Andresen, Lorenz J.; and Halloran, John J., Jr., to Combustion Engineering, Inc. Continuous centrifuge apparatus. 3,428,248, 2-18-69, Cl. 233-7.
Andresen, Magne A. Modular structure for restraining walls. 3,464,211, 9-2-69, Cl. 61-35.

Andresen, Raymond H.; and Hanson, Larry K. Gits Bros, Mfg., Co., mesne Self-compensating seal. 3,445,119, 5-20-69, Cl. 277-3.
Andress, Bernhard; and Kuchelbacher, Ludwig, to Siemens Aktiengesellschaft. Ignition device for oil-fired boilers. 3,427,118, 2-11-69, Cl. 431-258.
Andress, Harry J., Jr., to Mobil Oil Corporation. Liquid hydrocarbon fuels containing amine salts of ethylene diamine tetra acetic acid as anti- static agents. 3,449,097, 6-10-69, Cl. 44-71.
Andress, Harry J., Jr., to Mobil Oil Corporation. Liquid hydrocarbon compositions containing amides of ethylene diamine tetra acetic acid as anti-static agents. 3,455,665, 7-15-69, Cl. 44-71.
Andress, Harry J., Jr.; and Gee, Paul Y. C., to Mobil Oil Corporation. Salicylaldimines. 3,449,424, 6-10-69, Cl. 260-566.
Andress, Harry J., Jr.: *See*—
Gee, Paul Y. C.; and Andress, Harry J., Jr.,3,485,756.
Gee, Paul Y. C.; and Andress, Harry J., Jr.,3,485,858.
Andrew, Bertha M.; and Blumenberg, Karl E., to Du Pont de Nemours, E. I., and Company. Titanium pigment manufacture. 3,459,575, 8-5-69, Cl. 106-300.
Andrew Corporation: *See*—
Holtum, Alfred G., Jr., 3,438,041.
Miller, Robert F., 3,461,409.
Andrew, Derek, to North American Philips Company, Inc. Cycloidal mass spectrometer employing crossed uniform magnetic and electric fields. 3,427,449, 2-11-69, Cl. 250-41.9
Andrew, Herbert Francis, to Imperial Chemical Industries Limited. Metal complex reactive azo dyestuffs. 3,424,738, 1-28-69, Cl. 260-146.
Andrew, Herbert Francis, to Imperial Chemical Industries Limited. Triazine and pyridine fiber reactive dyestuffs azo. 3,446,790, 5-27-69, Cl. 260-153.
Andrew, Herbert Francis; and Kenyon, Ronald Wynford, to Imperial Chemical Industries Limited. Mixed 1:1-chromium complex monoazo dyestuffs. 3,484,430, 12-16-69, Cl. 260-145.
Andrew Industries Incorporated: *See*—
Ludeman, Edwin H., 3,432,191.
Andrew, Jeanie: *See*—
Andrew, William Stewart Kerr,3,463,085.
Andrew, Ralph C. Rotary wheel ditch finishing machine. 3,455,039, 7-15-69, Cl. 37-93.
Andrew, Vladimir. Tooth crown construction and process for forming the same. 3,483,618, 12-16-69, Cl. 32-12.
Andrew, William Stewart Kerr, deceased0 (by Andrew, Jeanie; sole executrix), to Imperial Chemical Industries Limited. Underwater explosive charge. 3,463,085, 8-26-69, Cl. 102-24.
Andrews, Arthur J.; and Zierak, Stephen J., to Metal Bellows Corporation. Refrigeration system employing bellows solution pump. 3,473,347, 10-21-69, Cl. 62-476.
Andrews, Barry G.; and Harriman, Allen C., to Kamborian, Jacob S. End clamp for a shoe assembly. 3,477,078, 11-11-69, Cl. 12-14.4
Andrews, Donald E., to Cambridge Wire Cloth Company. Shaker screen. 3,483,912, 12-16-69, Cl. 160-327.
Andrews, Donald R.; and James, Eliott D., to International Business Machines Corporation. Buffered teletypewriter device. 3,465,302, 9-2-69, Cl. 340-172.5
Andrews, Edgar Harold. Temperature control for an ultramicrotome. 3,447,594, 6-3-69, Cl. 165-2.
Andrews, Frederick A. Oxidation resistant compositions for human consumption. 3,429,716, 2-25-69, Cl. 99-150.
Andrews, Harold John. Building constructions and fasteners therefor. 3,466,072, 9-9-69, Cl. 287-20.92
Andrews, Harold L.: *See*—
Elwell, Maurice W.; Elwell, Steven C.; and Andrews, Harold L.,3,456,747.
Andrews, Hugh H.: *See*—
Daddona, Domenic J., Jr.; and Andrews, Hugh H.,3,454,994.
Andrews, Hugh Hill, to Scovill Manufacturing Company. Plastic snap fastener. 3,469,290, 9-30-69, Cl. 24-208.
Andrews Industries Incorporated: *See*—
Ludeman, Edwin H., 3,476,154.
Andrews, James A.; and Bahm, Glenn A., to Institute of Cosmetic Dentistry, Incorporated. Dental bridge. 3,429,043, 2-25-69, Cl. 32-5.
Andrews, James A.; Bahm, Glenn A.; Dodson, Riley B.; and Walker, John N., to Institute of Cosmetic Dentistry, Incorporated. Denture securing means. 3,462,837, 8-26-69, Cl. 32-5.
Andrews, James A.: *See*—
Bahm, Glenn A.; and Andrews, James A.,3,423,827.
Andrews, James E., 1/2 interest to Dorey, Edward M. Self-centering adapter cap for hypodermic needles. 3,460,702, 8-12-69, Cl. 215-37.
Andrews, John D.: *See*—
Leasure, William C.; and Andrews, John D.,3,458,111.
Andrews, John R., Jr.; Goldman, Philip A.; and Nibby, Chester M., Jr., to Honeywell Inc. Printed circuit delay line having mutually opposed, spiralled, inductance elements. 3,436,687, 4-1-69, Cl. 333-29.
Andrews, John S.: *See*—
Mainguy, Donald N., 3,423,772.
Andrews, Kenneth Ernest; and Westman, Kevin, to British Petroleum Company Limited, The. Containers. 3,465,947, 9-9-69, Cl. 229-44.
Andrews, Lawrence F. Orthodontic neckpad. 3,474,536, 10-28-69, Cl. 32-14.
Andrews, Lawrence F. Method and appartus for improved orthodontic bracket and arch wire technique. 3,477,128, 11-11-69, Cl. 32-14.
Andrews, Norwood H. Comminuting apparatus. 3,468,489, 9-23-69, Cl. 241-39.
Andrews, Paul D.; and Bub, Robert A., to Mine Safety Appliances Company. Filter. 3,447,691, 6-3-69, Cl. 210-483.
Andrews, Paul W.; and Peters, Forrest I., to Corning Glass Works. Latex casting system. 3,472,803, 10-14-69, Cl. 260-17.
Andrews, Peter. Surface, material and health protective device. 3,482,642, 12-9-69, Cl. 180-69.1
Andrews, Ralph Lowye: *See*—
Burke, Harry T.; and Andrews, Ralph Lowye,3,428,166.
Andrews, Richard Charles; and Bedford, Arthur Hugh, to Chance Brothers Limited. Microscope cover glass and method. 3,420,648, 1-7-69, Cl. 65-66.
Andrews, Richard E.: *See*—
Landes, Benjamin Daniel; Paricio, Ramon, Jr.; and Andrews, Richard E.,3,462,090.
Andrews, Robert S. L. Apparatus for continuous centrifugal casting of tubular metal articles. 3,457,986, 7-29-69, Cl. 164-289.
Andrews, Robert S. L.; and Smith, George H., to Amsted Industries Incorporated. Method of curing of resin-bonded cores. 3,458,613, 7-29-69, Cl. 264-123.
Andrews, Roland E., to Tektronix, Inc. Direct coupled temperature compensated amplifier. 3,421,102, 1-7-69, Cl. 330-23.
Andrews, Sydney Alan: *See*—
Parkin, Leslie; and Andrews, Sydney Alan,3,426,817.
Andrews, Thomas D. H., to Dowty Technical Developments Limited. Electro-hydraulic servo control valve. 3,457,956, 7-29-69, Cl. 137-625.61
Andrews, William R.: *See*—
Hovey, Almon G.; and Andrews, William R.,3,457,178.
Andrews, William R.; and Meehan, John L., to Olin Mathieson Chemical Corporation. Polyurethane foams utilizing an oxyethylated tall oil foam stabilizer. 3,423,339, 1-21-69, Cl. 260-2.5
Andrey, Pierre: *See*—
Grosclaude, Rene; and Andrey, Pierre,3,482,572.
Andrian, Leo George. Hat structure. 3,430,266, 3-4-69, Cl. 2-193.
Andrikian, Charles P., to Communications Satellite Corporation. Temperature compensated three-port stripline circulator. 3,452,298, 6-24-69, Cl. 333-1.1
Andrini, Dario, to Agrimi, Michele. Implement for cleaning glass sheets, washable walls and the like, provided with storage tank and manually operable pumping device for ejecting a spray of detergent liquid. 3,458,265, 7-29-69, Cl. 401-139.
Andrisin, John J., Jr.: *See*—
Coneybear, J. Frank; Chandler, Charles H.; and Andrisin, John J., Jr.,3,463,311.
Andriussi, Francois G.; and Rouques, Pierre A., to Eurotechni, Office Europeen d'Etudes et de Realisations Techniques, and S.E.R.M.A.G. Societe d'Etudes et de Recherches Magnetiques, Saint Martin-d'Heres. Ventilating device for cooling a heat engine. 3,458,122, 7-29-69, Cl. 230-270.
Andromeda Inc.: *See*—
Lesti, Arnold, 3,440,617.
Androshuk, Alex; Bergh, Arpad A.; and Erdman, Wiliam C., to Bell Telephone Laboratories, Incorporated. Method of conducting chemical reactions in a glow dscharge. 3,424,661, 1-28-69, Cl. 204-164.
Androshuk, Alex; Bergh, Arpad A.; and Erdman, William C., to Bell Telephone Laboratories, Incorporated. Method and apparatus for reactive sputtering wherein the sputtering target is contacted by an inert gas. 3,484,358, 12-16-69, Cl. 204-192.
Andrs, Jerry Frank; and Elledge, Kermit, to Allied Chemical Corporation. Broaching tool. 3,470,729, 10-7-69, Cl. 72-476.
Andrup, Erik E.; and Lundbaek, Aase, to Novo Terapeutisk Laboratorium A/S. Novel chlorpromazine salts. 3,453,269, 7-1-69, Cl. 260-243.
Andrus, Elwin A.: *See*—
Westin, Axel E., 3,462,987.
Andrus, Paul G., to Xerox Corporation. Process for making and using a relief printing master. 3,456,586, 7-22-69, Cl. 101-401.1
Andruschkevich, Walter, Sr.: *See*—
Friedman, Nathan H.; and Andruschkevich, Walter, Sr.,3,473,172.
Andrussow, Konstantin: *See*—
Nonnenmacher, Helmut; Appl, Max; Haug, Juergen; and Andrussow, Konstantin,3,431,284.
Andrycha, Joseph J.: *See*—
Deibel, Raymond A.; and Andrycha, Joseph J.,3,437,014.
Andrychowski, Edward: *See*—
Granata, Peter C., Jr.; Siegal, Burton L.; and Zeissler, Edward J., 3,472,978.

Andrychowski, Edward P.: *See*—
Granata, Peter C., Jr.; Andrychowski, Edward P.; and Pantaleo, Carles A.,3,446,324.
Andrysick, Chester A., to Corning Glass Works. Vertical index press for press forming glass articles. 3,436,202, 4-1-69, Cl. 65-164.
Andueda, Kenichi: *See*—
Okuya, Eitaro; Sakaguchi, Adio; Komatsu, Kouei; Kikuchi, Tatsuhiko; Yasunaga, Hidetoshi; and Andueda, Kenichi,3,432,515.
Andy, Albert, 1/4 each to Andy, Anthony, Andy, William, and Andy, Victor. Method for filling abandoned mines. 3,478,520, 11-18-69, Cl. 61-35.
Andy, Anthony,: *See*—
Andy, Albert, 3,478,520.
Andy, Victor: *See*—
Andy, Albert, 3,478,520.
Andy, William: *See*—
Andy, Albert, 3,478,520.
Andzer, Arnold L., to General Dynamics Corporation. Multiband frequency tuner-amplifier. 3,432,760, 3-11-69, Cl. 325-452.
Anello, Anthony P. Driving indicator apparatus. 3,453,889, 7-8-69, Cl. 73-379.
Anello, Louis G.; and Sweeney, Richard F., to Allied Chemical Corporation. Chloroformyl carbocyclic compounds. 3,467,703, 9-16-69, Cl. 260-544.
Anello, Louis G.; and Sweeney, Richard F., to Allied Chemical Corporation. Polyhalogenated unsaturated cyclic alcohols. 3,480,571, 11-25-69, Cl. 260-617.
Anello, Louis G.; Sweeney, Richard F.; and Price, Alson K., to Allied Chemical Corporation. Method of combatting pests with fluorinated perhalocyclic ketone. 3,471,623, 10-7-69, Cl. 424-331.
Anello, Louis G.: *See*—
Nychka, Henry R.; and Anello, Louis G.,3,435,078.
Anesetti, Andrew. Internal combustion engine. 3,474,768, 10-28-69, Cl. 123-54.
Anesi, Mario. Garden tool. 3,437,154, 4-8-69, Cl. 172-350.
Anesi, Mario. Liquid metering valve unit. 3,473,695, 10-21-69, Cl. 222-20.
Anetsberger, Richard J. Boat and luggage carrier. 3,481,518, 12-2-69, Cl. 224-42.1
Ang, Leoncio T.: *See*—
Carp, Ralph W.; Howard, William E.; Slavin, Michael; and Ang, Leoncio T.,3,455,411.
Slavin, Michael; Carp, Ralph Wolf; Howard, William Edward; and Ang, Leoncio T.,3,485,316.
Angel, Karl W., to RCA Corporation. Transmit-receive switch. 3,452,299, 6-24-69, Cl. 333-7.
Angelari, Richard D. Light responsive device for automatically controlling a load. 3,421,013, 1-7-69, Cl. 250-239.
Angeles Metal Trim Company: *See*—
Lizee, leo Joseph, 3,481,090.
Angeletti, Mario: *See*—
Hermitte, Franco Barbieri; and Angeletti, Mario,3,457,101.
Hermitte, Franco Barbieri; and Angeletti, Mario,3,485,653.
Angelica Corporation: *See*—
Belkin, Nathan L., 3,470,568.
Angelkorte, Johannes W.: *See*—
Capitano, Peter J.; and Angelkorte, Johannes W.,3,440,295.
Angell, Charles H.: *See*—
Adamson, Robert G.; Angell, Charles H.; Roote, Jay C.; Hutchison, Joel F.; and Coberley, Daniel A.,3,477,369.
Angell, George Z.: *See*—
Pesch, Herman; and Angell, George Z.,3,468,225.
Angell, Richard G., Jr., to Union Carbide Corporation. Molding of foamed thermoplastic articles. 3,436,446, 4-1-69, Cl. 264-51.
Angello, John A. Traveling barricade. 3,482,820, 12-9-69, Cl. 256-64.
Angelo, Rudolph J., du Pont de Nemours, E. I. and Company. Polyamides and polyimides from diamines containing alkoxy phenyl groups. 3,420,795, 1-7-69, Cl. 260-47.
Angelo, Rudolph J., to Du Pont de Nemours, E. I., and Company. Copolymers of aromatic tetracarboxylic acids with at least two organic diamines. 3,424,718, 1-28-69, Cl. 260-47.
Angelo, Rudolph J., to Du Pont de Nemours, E. I., and Company. Crosslinkable polyamide-acids and polyimides and crosslinked polymeric products made therefrom. 3,437,636, 4-8-69, Cl. 260-47.
Angelo, Rudolph J.; and Berr, Charles E., to Du Pont de Nemours, E. I., and Company. Polybenzoxazole film. 3,449,296, 6-10-69, Cl. 260-47.
Angeloff, Georgi. Method of making foundry molds. 3,467,165, 9-16-69, Cl. 164-6.
Angeloff, Wesley L., to United States of America, Navy. Folded transducer transmitting or receiving for low frequency underwater sound. 3,449,712, 6-10-69, Cl. 340-8.
Angeloff, Wesley L., to United States of America, Navy. Transducer of acoustical energy exhibiting the characteristics of a pulsating sphere. 3,462,730, 8-19-69, Cl. 340-8.
Angelos, Mitchell G.; and Fleischmann, Lewis W., to United States of America, Army. Grenade flotation attachment. 3,482,517, 12-9-69, Cl. 102-64.
Angelovich, Stephen J., to Mallory, P. R., & Co., Inc. Leak-proof electrochemical cell. 3,457,117, 7-22-69, Cl. 136-133.
Angelucci, George V.; Kurtz, Richard J.; and O'Fallon, Richard G., to Motorola, Inc. Reduction of arcing between the parts of a cathode ray tube. 3,434,770, 3-25-69, Cl. 316-1.
Angelucci, John J. Motor driven reciprocating saw having rotatable blade. 3,448,781, 6-10-69, Cl. 143-68.
Angelucci, Louis J., Jr., to Philco-Ford Corporation. Process for depositing particulate solid material on selected portions of a substrate. 3,428,454, 2-18-69, Cl. 96-36.1
Angelus, Ted. Can re-sealers. 3,442,377, 5-6-69, Cl. 206-65.
Anger, Anton. Extrusion head. 3,423,793, 1-28-69, Cl. 18-14.
Anger, Ernest G., to Square D Company. Fine and coarse servomotor positioning control system. 3,473,100, 10-14-69, Cl. 318-18.
Anger, Hal O., to United States of America, Atomic Energy Commission. Gamma-ray camera for imaging radioisotope distribution in a transverse section of a rotating subject. 3,432,660, 3-11-69, Cl. 250-71.5
Angevine, William H., Jr.: *See*—
Hirshfeld, Julian J.; Hacklander, Egon H.; and Angevine, William H., Jr.,3,420,616.
Anghinetti, Joseph Richard; Burden, David Abbott; and Pelletier, Albert Eugene, to Formica Corporation. Knock-down shower unit enclosure. 3,420,021, 1-7-69, Cl. 52-264.
Angier, Richard, to UA Engineering Limited. Propulsion units. 3,475,912, 11-4-69, Cl. 60-222.
Angier, Robert Bruce; Murdock, Keith Chadwick; and Clark, Joe Haller, to American Cyanamid Company. Method of treating influenza viral infection. 3,459,861, 8-5-69, Cl. 424-263.
Angle, Henry W.: *See*—
Kauffman, Harry G.; Sloan, Thomas F.; and Angle, Henry W.,3,482,699.
Shriver, William F.; Sanders, John T., III; Pike, John A.; and Angle, Henry W.,3,472,042.
Angler Products, Inc.: *See*—
Humphreys, Robert E., 3,437,488.
Anglers' Manufacturing Corporation:*See*—
Metzger, Romain, 3,456,379.
Angleton, Paul A.; and Hayer, John R., to Gulton Industries, Inc., mesne. Ceramic transducer elements and accelerometers utilizing same. 3,487,238, 12-30-69, Cl. 310-8.4
Anglin, Clarence Harry. Electrical contact cleaner composition. 3,421,872, 1-14-69, Cl. 51-304.
Anglin, James M.: *See*—
Bement, Lyle W.; Morning, William L.; Benjamin, James E.; South, Richard P.; Thompson, Richard B.; and Anglin, James M.,3,460,032.
Anglin, James M., to Mallory, P. R., & Co., Inc. Capacitance test instrument using partial discharge time interval measurement. 3,453,535, 7-1-69, Cl. 324-60.
Anglin, Paul E.: *See*—
Anglin, William E.; and Anglin, Paul E.,3,479,834.
Anglin, William E.; and Anglin, Paul E., to Capitol Refrigeration, Inc. Method and apparatus for air conditioning automobiles and the like. 3,479,834, 11-25-69, Cl. 62-115.
Anglo Paper Products, Limited: *See*—
Sepall, Ola, 3,469,704.
Sepall, Ola; Stanners, Leonard N.; and Tremblay, Bruno, 3,483,078.
Angold, Raymond H. Cooking food under pressure. 3,431,835, 3-11-69, Cl. 99-408.
Angst, Heinz: *See*—
Reich, Heinrich; and Angst, Heinz,3,482,464.
Angst, Walter, to Meteor AG. Infinitely variable friction drive. 3,473,398, 10-21-69, Cl. 74-200.
Angstadt, Richard L.: *See*—
Edelson, Martin R.; and Angstadt, Richard L.,3,425,892.
Keenum, John C., Jr.; and Angstadt, Richard L.,3,429,724.
Keenum, John C., Jr.; and Angstadt, Richard L.,3,429,725.
Angstadt, Richard L.; and Hurley, Forrest R., to Grace, W. R., & Co. Accelerator for Portland cement. 3,427,175, 2-11-69, Cl. 106-89.
Angstrohm Precision Incorporated: *See*—
Solow, Benjamin, 3,469,226.
Angus, Ernest Thomas; Arthur, Hugh MacDonald; Montgomery, John Young Condie; Walker, Donald Ferguson; and Good, Richard Samuel Jonathan, to Ferranti, Limited. Tape controlled servo for a machine tool including a unique pulse width modulated motor control. 3,457,480, 7-22-69, Cl. 318-18.
Angus, George, & Company Limited: *See*—
Ball, Eric, 3,428,507.
Brinson, Roger; and Rodriguez, Alan, 3,422,854.
Loraine, Nevison G.; and Lidgate, John B., 3,468,838.
Anhalt, James E., Sr. Cautery tip. 3,460,539, 8-12-69, Cl. 128-303.17

Anhalt, John W., to International Telephone and Telegraph Corporation. Contact terminal extraction tool. 3,461,533, 8-19-69, Cl. 29-203.
Anheuser-Busch Incorporated: *See—*
Donovan, Thomas A.; and Miltenberger, William E., 3,443,397.
Anhorn, Victor J.: *See—*
Frech, Kenneth J.; and Anhorn, Victor J.,3,480,688.
Anicet Anstalt: *See—*
Waly, Moustapha, 3,464,818.
Anjac Plastics, Inc.: *See—*
Mock, Donald E., 3,426,482.
Mock, Donald E., 3,479,770.
Mock, Donald E., 3,484,895.
Anker, Charles A., to General Mills, Inc. Keratin protein product and process of preparing same. 3,464,825, 9-2-69, Cl. 99-18.
Anker-Werke Aktiengesellschaft: *See—*
Geissler, Ernst, 3,482,216.
Priebs, Horst, 3,432,022.
Priebs, Horst, 3,456,583.
Rethmeier, Gerhard, 3,472,447.
Rethmeier, Gerhard, 3,478,959.
Strothmann, Otto, 3,427,969.
Verhoeff, Jacobus, 3,448,254.
Ankersen, Borge Richard. Incinerators and methods of incineration. 3,457,883, 7-29-69, Cl. 110-10.
Ankersen, Borge Richard. Incinerators. 3,482,533, 12-9-69, Cl. 110-8.
Ankersen, Borge Richard. Rotary hearth metal melting furnaces. 3,482,826, 12-9-69, Cl. 266-33.
Anklin, Paul, to AG fur Keramische Industrie Laufen. Sanitary fitting. 3,444,565, 5-20-69, Cl. 4-187.
Ankortite Company, Inc., The: *See—*
Burton, Duane C., 3,429,241.
Ankrum, Homer R. Display device and support. 3,473,249, 10-21-69, Cl. 40-152.1
Anley, Donald M.: *See—*
Robinson, Norman R.; Anley, Donald M.; and Petrie, Charles S.,3,438,582.
Anna, Otto Konrad, to Braun Aktiengesellschaft. Electric shaver having an electric field for retaining hair dust in the cutting head. 3,421,216, 1-14-69, Cl. 30-41.
Anna, Otto Konrad, to Braun Aktiengesellschaft. System for retaining the hair dust in an electric shaver cutting head with an electrical field. 3,464,110, 9-2-69, Cl. 30-41.
Annable, Weldon G.; and Mueller, Frederick L., to Union Oil Company of California, mesne. Gasoline containing diamine salt of a branched chain carboxylic acid. 3,442,630, 5-6-69, Cl. 44-66.
Annand, Robert R., to Petrolite Corporation. Corrosion test probe. 3,486,996, 12-30-69, Cl. 204-195.
Annand, Robert R.; and Hackerman, Norman, to Tracor, Inc. Method and materials for inhibiting corrosion. 3,466,188, 9-9-69, Cl. 117-132.
Annand, Robert R.; Redmore, Derek; and Rushton, Brian M., to Petrolite Corporation. Heterocyclic polymers. 3,450,646, 6-17-69, Cl. 260-2.
Annen, Robert P.: *See—*
Fiedler, William S.; and Annen, Robert P.,3,481,389.
Annen, Robert, to Parechoc S. A. Le Sentier, and Rochat freres S. A. Method of drilling hard materials. 3,447,528, 6-3-69, Cl. 125-30.
Anner, Georg; and Kalvoda, Jaroslav, to Ciba Corporation. 3-Amino-α-nor-β-homo-steroids. 3,459,769, 8-5-69, Cl. 260-326.14
Anner, Georg; and Kalvoda, Jaroslav; to Ciba Corporation. Process for dehydrogenating α-nor-β-homo- steroids. 3,459,791, 8-5-69, Cl. 260-488.
Anner, Georg; and Kalvoda, Jaroslav, to Ciba Corporation. 13,14-Seco-steroids and process for preparation thereof. 3,470,240, 9-30-69, Cl. 260-488.
Anner, Georg; Meystre, Charles; Kalvoda, Jaroslav; and Ueberwasser, Hellmut, to Ciba Corporation. Process for producing 5,10-seco-steroids. 3,431,191, 3-4-69, Cl. 204-158.
Anner, Georg; Ueberwasser, Helmut; and Meystre, Charles, to Ciba Corporation. Process for the manufacture of 17α,21-dihydroxy-20-ketosteroids. 3,423,437, 1-21-69, Cl. 260-397.45
Anner, Georg; and Wieland, Peter, to Ciba Corporation. 7α-Methyl-19-nor-androstadienes. 3,432,528, 3-11-69, Cl. 260-397.3
Anner, Georg: *See—*
Wettstein, Albert; Anner, Georg; Ehmann, Ludwig; and Wieland, Peter,3,453,296.
Wettstein, Albert; Anner, Georg; Heusler, Karl; Kalvoda, Jaroslav; and Ueberwasser, Hellmut,3,458,539.
Annessa, Domenico Marcilli, to Arden, Manuel E. Bowling game with pin platforms, magnetically attracted pins and foldable backstops. 3,463,490, 8-26-69, Cl. 273-37.
Anno, Takamitsu; Masuda, Kohei; Hachiya, Kikuo; and Hattori, Takeo, 1/2 to Mitsubishi Petrochemical Co., Ltd., mesne. Waterproof pile coated sheet for lamiating. 3,451,884, 6-24-69, Cl. 161-53.
Annunziata, Carmine; and Lee, Robert H., to Union Carbide Corporation. Method and material for hard-surfacing. 3,420,980, 1-7-69, Cl. 219-146.
Annunziata, Eugene J.; James, Robert S.; King, Lewis E.; and Pierce, Edwin B., to International Business Machines Corporation. Apparatus for control of a plurality of peripheral devices. 3,432,813, 3-11-69, Cl. 340-172.5
Anocut Engineering Company: *See—*
Bender, Joseph L., 3,458,424.
Petroff, Merlin O., 3,433,728.
Williams, Lynn A., 3,421,997.
Williams, Lynn A., 3,440,161.
Williams, Lynn A., 3,441,493.
Williams, Lynn A., 3,444,069.
Williams, Lynn A., 3,444,070.
Williams, Lynn A., 3,449,226.
Williams, Lynn A., 3,466,235.
Williams, Lynn A., 3,472,754.
Anolick, Eugene S.; and Monteleone, Joseph J., to General Electric Company. Method for making a high-speed reusable X-ray plate using orthorhombic lead oxide and resulting article. 3,453,141, 7-1-69, Cl. 117-201.
Ansel, James F., III, to Phillips-Van Heusen Corporation. Button hole sewing apparatus. 3,463,101, 8-26-69, Cl. 112-121.15
Anselm, Anthony Cesar, to Creators Limited. Decorative plastic extrusions. 3,440,129, 4-22-69, Cl. 161-5.
Anselm, Courtenay D.; and Reitz, Kenneth R., to Eastman Kodak Company. Recovered coupler purification process. 3,458,574, 7-29-69, Cl. 260-562.
Ansems, Alfonsus Johannes Petrus: *See—*
Vervaart, Adrianus P.; and Ansems, Alfonsus Johannes Petrus,3,486,870.
Ansette, Cyril George, to Chemidus Plastics Limited. Apparatus for grooving thermoplastic material. 3,425,093, 2-4-69, Cl. 18-19.
Ansley, William G., to Hewlett-Packard Company. Method for making thin diaphragms. 3,423,823, 1-28-69, Cl. 29-578.
Ansley, William G., to Hewlett-Packard Company. Solid state light source. 3,482,088, 12-2-69, Cl. 240-46.59
Anson, Howard G.: *See—*
Long, George E.; and Anson, Howard G.,3,425,127.
Anson, Inc.: *See—*
Hodge, Philip Allan, 3,421,341.
Anspaugh, Robert H.: *See—*
Boyer, Raymond F.; Grenley, Dallas G.; and Anspaugh, Robert H.,3,462,839.
Anspaugh, Warren E., to General Motors Corporation. Appliance leveling foot and shipping pallet bolt. 3,436,045, 4-1-69, Cl. 248-119.
Anspon, Harry D.: *See—*
Alexander, Richard L.; Anspon, Harry D.; and Brown, Francis E.,3,466,265.
Anspon, Harry D.; and Alexander, Richard L., to Gulf Oil Corporation. Preparation of ethylene/vinyl-pyrrolidinone copolymers in the presence of ammonia. 3,427,296, 2-11-69, Cl. 260-88.1
Anspon, Harry D.; and Brown, Francis E., to Gulf Research & Development Company. Processes for preparing ethylene polymers. 3,485,812, 12-23-69, Cl. 260-94.9
Anspon, Harry D.; and Hurst, Jack. Ethylene interpolymer compositions and processes. 3,485,785, 12-23-69, Cl. 260-29.6
Anspon, Harry D.; and Hurst, Jack, to Gulf Oil Corporation, mesne. Bonded and dyed fibrous substrates and processes. 3,486,929, 12-30-69, Cl. 117-138.8
Anspon, Harry D.; and Robb, Howard E., to Gulf Oil Corporation. Copolymers of ethylene and alkyl acrylates as plasticizers in polycarbonamide resins. 3,472,916, 10-14-69, Cl. 260-857.
Anspon, Harry D.; and Smith, Wayne E., to Gulf Oil Corporation. Methacrolein polymer stabilized with a benzophenone. 3,424,714, 1-28-69, Cl. 260-45.95
Smith, Wayne E.; Alwani, Dru W.; and Anspon, Harry D.,3,420,798.
Smith, Wayne E.; Anspon, Harry D.; Ham, George E., Jr.; and Alwani, Dru W.,3,474,062.
Anstadt, George L. Instrument for direct mechanical cardiac massage. 3,455,298, 7-15-69, Cl. 128-64.
Anstalt Europaische Handelsgesellschaft: *See—*
Hagelin, Boris Caesar Wilhelm, 3,485,948.
Sturzinger, Oskar, 3,480,729.
Anstalt fur Montage-Technik: *See—*
Hilti, Martin, 3,428,169.
Jenkne, Herbert, 3,449,475.
Mathes, Gunther, 3,430,903.
Anstalt fur Patentdienst: *See—*
Fleissner, Gerold, 3,427,726.
Fleissner, Gerold, 3,440,843.
Fleissner, Hans, 3,460,898.
Fleissner, Heinz, 3,427,725.
Fleissner, Heinz; and Fleissner, Gerold, 3,430,356.
Fleissner, Heinz, 3,445,947.
Anstalt, Kassel: *See—*
Somazzi, Lino, 3,446,553.

Anstalt Tamerlan: *See—*
Batou, Boris, 3,451,340.

Ansteth, John J. Rocker arm stud girdle. 3,430,612, 3-4-69, Cl. 123-90.

Anstey, Nigel Allister: *See—*
Lerwill, William E.; and Anstey, Nigel Allister,3,459,930.
Lerwill, William Edward; and Anstey, Nigel Allister,3,459,928.
Lerwill, William Edward; and Anstey, Nigel Allister,3,459,929.
Lerwill, William Edward; and Anstey, Nigel Allister,3,459,931.
Lerwill, William Edward; Caroussos, Panayotis; and Anstey, Nigel Allister,3,460,095.

Anstey, Roger Hilary; and Macnab, Robert Marshall, to British Petroleum Company Limited, The. Isothermal molecular sieve hydrocarbon separation process. 3,422,003, 1-14-69, Cl. 208-310.

Ansul Company, The: *See—*
Flajole, Henry J., 3,463,235.
Flajole, Henry J.; Andersen, Fred R.; and Thompson, Dale A., 3,463,236.
Gasik, Ronald F., 3,453,405.
Guise, Arthur B.; and Hanson, Garry O., 3,447,610.
Kippur, Perry R.; and Bailey, Randal E., 3,428,681.
Kohler, John J.; and Ross, Louis A., 3,420,867.
Ratz, Rudi F. W.; and Gruber, Miriam J., 3,420,920.

Antell, George Richard, to International Standard Electric Corporation. Light emitting junction device using silicon as a dopant. 3,427,516, 2-11-69, Cl. 317-237.

Antell, Joseph. Shoe and method and last for making same. 3,442,031, 5-6-69, Cl. 36-2.5

Antenna Research Associates, Inc.: *See—*
Dunlavy, John Harold, Jr., 3,424,984.

Antes, Jack E., to Hughes Aircraft Company. Electrical connector. 3,422,394, 1-14-69, Cl. 339-176.

Anthes, David E.: *See—*
Bregman, Jacob I.; Anthes, David E.; and Braman, Robert S.,3,463,713.

Anthes Imperial Limited: *See—*
Merson, Karol J.W., 3,477,189.

Anthes, Jacob, to Electrocopy Corporation. Copy machine and method of electrostatic copying. 3,459,477, 8-5-69, Cl. 355-12.

Anthon, Erik W., to American Optical Corporation, mesne. Rotary pump. 3,450,051, 6-17-69, Cl. 103-5.

Anthon, Erik W., to American Optical Corporation, mesne. Liquid sampling-pipetting method and apparatus. 3,484,207, 12-16-69, Cl. 23-253.

Anthoney, Herbert A., Sr. Fluid propulsion system. 3,482,402, 12-9-69, Cl. 60-221.

Anthony, Andrew J., to Combustion Engineering, Inc. Nuclear reactor and control rod therefor. 3,480,510, 11-25-69, Cl. 176-35.

Anthony, Andrew J.; and Viets, Adolph W., Jr., to Combustion Engineering, Inc. Nuclear reactor fuel element support. 3,423,287, 1-21-69, Cl. 176-78.

Anthony, Andy J.: *See—*
Finch, Lester M.; and Anthony, Andy J.,3,468,757.

Anthony, Anne-Marie nee Barbier; Focx, Marc; and Yerouchalmi, David, to Commissariat a l'Energie Atomique. Electrically conductive ceramic material. 3,475,352, 10-28-69, Cl. 252-520.

Anthony Company: *See—*
Mustered, Lyle V.; and Simonds, George D., 3,424,023.

Anthony, Myron L., 23.75% each to Butler, George W., and Butler, Gladys A., under trust agreements dated July 19, 1966, 5% to Dorn, Thomas E., and 5% to Klocker, Norman F. Method and apparatus for extrusion forming of cylindrical metal containers. 3,443,411, 5-13-69, Cl. 72-267.

Anthony, Myron L., 23.75% to Butler, George W., and Butler, Gladys A., as trustees under George W. Butler's trust, 23.75% to Butler, Gladys A., and Butler, George W., as trustees under Gladys A. Butler's trust, 5% to Dorn, Thomas E., and 5% to Kloker, Norman F. Method of manufacturing metal cans and the like. 3,452,695, 7-1-69, Cl. 113-120.

Anthony, Myron L., 23.75% to Butler, George W., and Bulter, Gladys A., as trustees under 23.75% to Butler, Gladys A., and Butler, George W., as trustees under 5% to Dorn, Thomas E., and 5% to Kloker, Norman F. Methods of sealing cylindrical thin-wall ductile metal can bodies. 3,452,897, 7-1-69, Cl. 220-67.

Anthony Pools, Inc.: *See—*
Shanni, Vincent, 3,444,659.

Anthony, Romuald, to FMA, Inc. Image rotating device. 3,453,043, 7-1-69, Cl. 353-69.

Anthony, Russel W.: *See—*
Motz, Carl H.; and Anthony, Russel W.,3,461,526.

Anthony, William C.; and Szmuszkovicz, Jacob, to Upjohn Company, The. 3-(1-Pyrrolin-2-yl)indoles. 3,470,204, 9-30-69, Cl. 260-326.15

Anthony, William C.; and Szmuszkovicz, Jacob, to Upjohn Company, The. 3-(4-Nitrobutyryl)indoles. 3,470,205, 9-30-69, Cl. 260-326.16

Anthony, William C.; and Ursprung, Joseph J., to Upjohn Company, The. 6-Amino-4-(substituted amino)-1,2-dihydro-1- hydroxy-2-iminopyrimidines. 3,461,461, 8-12-69, Cl. 260-256.4

Anthony, William C.: *See—*
Ursprung, Joseph J.; and Anthony, William C.,3,464,987.

Antkiewicz, Walter D.: *See—*
Siemietkowski, John S.; and Antkiewicz, Walter D.,3,478,580.

Antler, Morton; and Krumbein, Simeon J., to Burndy Corporation. Corrosion resistant electric contacts. 3,484,209, 12-16-69, Cl. 29-195.

Antles, Ira A. Fingerprinting means. 3,448,723, 6-10-69, Cl. 118-503.

Antlfinger, George J.; and Bodzash, Maynard C., to Goodrich, B. F., Company, The. Vinyl polymers modified with drying alkyd resins or drying oils. 3,486,930, 12-30-69, Cl. 117-155.

Antlfinger, George J.; and von Kamp, Harold E., to Goodrich, B. F., Company, The. Vinyl chloride polymer compositions containing a vinyl chloride, vinyl acetate, vinyl alcohol terpolymer and an epoxy resin. 3,444,122, 5-13-69, Cl. 260-32.8

Anton, Anthony, to Du Pont de Nemours, E. I., and Company. Polyamide fibers stabilized with inorganic iodides and copper phthalates. 3,457,325, 7-22-69, Cl. 260-857.

Anton, Ernst: *See—*
Braun, Willy; and Anton, Ernst,3,428,647.

Anton, Jacob. Sheet metal stretching tool. 3,427,850, 2-18-69, Cl. 72-300.

Anton, Nicholas T.; and Daughetee, Lew H., to Wen Products, Inc. Vibratory tool. 3,434,247, 3-25-69, Cl. 51-170.

Antonelli, Joseph A.; and Zanger, Murray, to Du Pont de Nemours, E. I., and Company. Stain-resistant article, and composition for preparing same. 3,446,761, 5-27-69, Cl. 260-17.4

Antoniades, Emilios P., to Chevron Research Company. Thioether sulfonates. 3,471,551, 10-7-69, Cl. 260-501.14

Antonious, Anthony J. Golf club of the wood type with improved aerodynamic characteristics. 3,468,544, 9-23-69, Cl. 273-173.

Antoniu, Demetrio: *See—*
Gigante, Pietro; Antoniu, Demetrio; Ganzina, Fabrizio; Magi, Mario; and Serino, Enrico,3,467,705.

Antonov, Dubomir Iordanov: *See—*
Bakardjiev, Stefan T.; Stantchev, Ivan Tenev; and Antonov, Dubomir Iordanov,3,422,754.

Antonsen, Knud; Rosenberg, Richard; and Wiard, Hadley K., to Gulf General Atomic Incorporated, mesne. Shielded cask for radioactive material. 3,483,380, 12-9-69, Cl. 250-108.

Antonucci, Carmine J.: *See—*
Potter, John T.; Foley, Thomas P.; and Antonucci, Carmine J.,3,467,234.

Antonucci, Joseph M.: *See—*
Wall, Leo A.; and Antonucci, Joseph M.,3,429,935.

Anusauckas, Anthony V.: *See—*
Smith, Millard F.; and Anusauckas, Anthony V.,3,434,698.

Anvarn, Verner Valfrid: *See—*
Andblad, Kjell Ingemar; Anvarn, Verner Valfrid; Samuelsson, Rune Paul; Odebo, Nils Einar; and Wetterberg, Erik Ernst Waldemar,3,481,107.

Anvil Products, Inc.: *See—*
Stoker, Eugene, 3,478,377.

Anwander, Elmar: *See—*
Roth, Karl; Anwander, Elmar; and Schonhuber, Max-Josef,3,441,773.

Anway, Allen. Scriber gauge. 3,452,440, 7-1-69, Cl. 33-42.

Anweiler, Donald M. Golf club. 3,448,981, 6-10-69, Cl. 273-80.

Anweiler, Walter: *See—*
Hebborn, Heinrich; and Anweiler, Walter,3,442,597.

Anyos, Tom; and Moyer, Wendell W., Jr., to Borg-Warner Corporation. Fluorescent polymers. 3,423,483, 1-21-69, Cl. 260-860.

Anzac Electronics, Inc.: *See—*
Sontheimer, Carl G.; and Fredrick, Raymond E., Jr., 3,426,298.

Anzen Jidosha Kabushiki Kaisha: *See—*
Sakamoto, Masaiti, 3,453,740.

Anzen Products: *See—*
Lorenzen, Walter C., 3,483,878.

Aoe, Seigo; and Hashimoto, Kiyoji, to Kurashiki Rayon Co., Ltd. Doffing arrangement for centrifugal spinning system. 3,434,272, 3-25-69, Cl. 57-34.

Aoi, Katashi. Exhaust gas purifier for automobile. 3,421,315, 1-14-69, Cl. 60-29.

Aoi, Yoshizaburo. Suspender for thin objects. 3,434,686, 3-25-69, Cl. 248-316.

Aoki, Akira: *See—*
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira,3,458,987.

Aoki, Chihiro: *See—*
Sakai, Fumio; and Aoki, Chihiro,3,427,100.

Aoki Construction Co., Ltd.: *See—*
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo, 3,483,842.

Aoki, Katashi. Injection molding apparatus for making shoes. 3,429,007, 2-25-69, Cl. 18-30.

Aoki, Katsuo; and Yamaguchi, Terumoto, to Nippon Denso Kabushiki Kaisha. Method of making the stator core for rotary electric machinery. 3,436,812, 4-8-69, Cl. 29-596.

Aoki, Keisho, to Hagaron Co., Ltd. Stripping solution. 3,441,509, 4-29-69, Cl. 252-152.

Aoki, Koichi; Yamatani, Noboru; and Takeuchi, Hideo, to Minolta Camera Kabushiki Kaisha. Automatic exposure control camera for flash and daylight photography. 3,464,333, 9-2-69, Cl. 95-10.

Aoki, Setsuo; Shono, Setsuo; Ito, Ryoji; Arao, Yuzuru; and Hukunaga, Masao, to Matsushita Electric Industrial Co., Ltd. Blender. 3,458,175, 7-29-69, Cl. 259-108.

Aoki, Toshio: *See*—
Wakatsuki, Masao; Aoki, Toshio; and Hayashi, Hiroaki,3,442,615.
Wakatsuki, Masao; Aoki, Toshio; and Wakamatsu, Nobuyuki,3,457,043.
Wakatsuki, Masao; Aoki, Toshio; Wakamatsu, Nobuyuki; and Takasu, Shinichiro,3,436,183.
Wakatsuki, Masao; Aoki, Toshi; Takasu, Shinichiro; and Wakamatsu, Nobuyuki,3,442,616.

Aoki, Toyohiko, to Naigaikogyo Kabushiki Kaisha. Apparatus for purifying polluted gas. 3,479,799, 11-25-69, Cl. 55-230.

Aoshima, Atsushi: *See*—
Kato, Tsuneyuki; Aoshima, Atsushi; Kubota, Yasuhiro; and Matsumura, Kenji,3,446,840.
Yomiyama, Akira; Kato, Tsuneyuki; Aoshima, Atsushi; and Kawanishi, Tokuichiro,3,433,831.

Aoshima, Shozo: *See*—
Suzuki, Saburo; Kurata, Masaya; Akiyoshi, Akikazu; Aoshima, Shozo; Dan, Hirohiko; and Matsuoka, Norimichi,3,484,472.

Aouizerate, Marc: *See*—
Portal, Guy; and Aouizerate, Marc,3,443,094.

Aoun, Fred: *See*—
Seyb, Edgar J., Jr.; Chessin, Hyman; and Aoun, Fred,3,475,294.

Aoyagi, Takanobu: *See*—
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu,3,454,614.
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu,3,454,615.

Aoyama, Hiroshi, to Trio Corporation. Automatic frequency sweep apparatus. 3,467,870, 9-16-69, Cl. 325-470.

Aoyama, Kazumi: *See*—
Suzuki, Motohiko; Khriyama, Osamu; Aoyama, Kazumi; and Takuma, Zenzaburou,3,439,462.

Aoyama, Noritoshi, to Tokyo Juki Kogyo Kabushiki Kaisha. Thread cutting mechanism in a sewing machine. 3,463,105, 8-26-69, Cl. 112-252.

Aoyama, Shiro; and Yamamoto, Toshio, to Daikin Kogyo Co., Ltd. Azeotropic composition. 3,481,883, 12-2-69, Cl. 252-171.

Aoyama, Yoshio, to Daido Namarikakoki Company, Limited. Continuous crystallization apparatus for even grains. 3,459,509, 8-5-69, Cl. 23-273.

Aozuka, Noriyoshi: *See*—
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,435,067.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,439,020.

Apa, Armand Samuel: *See*—
Ziegler, George William, Jr.; and Apa, Armand Samuel,3,453,376.

Apache Powder Company: *See*—
Sheeran, Harold W., 3,474,730.

APAW S.A.: *See*—
Carpigiani, Poerio, 3,422,995.
Carpigiani, Poerio, 3,465,540.
Carpigiani, Poerio, 3,486,525.

Aplett, William R., to Foster Wheeler Corporation. Internal tube welding. 3,440,391, 4-22-69, Cl. 219-137.

Apel, Francis N.: *See*—
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr.,3,461,097.
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr.,3,461,098.

Apel, Ormond H., G. Hanger for trousers. 3,464,605, 9-2-69, Cl. 223-96.

Apelian, Henry M.; and Blodinger, Jack, to Merck & Co., Inc. Color-stable ascorbic acid tablet. 3,459,863, 8-5-69, Cl. 424-280.

Apesteguy, Henri Jean Eugene, to Panoduz Anstalt. Vertical walls constructed of uprights and detachable panels and structures comprising them. 3,448,554, 6-10-69, Cl. 52-461.

Apex Bearings Company: *See*—
Weichsel, Richard H., 3,467,454.

Apex Bearings Company, The: *See*—
Weichsel, Richard H., 3,447,844.
Weichsel, Richard H., 3,450,448.
Weichsel, Richard H., 3,451,731.
Weichsel, Richard H., 3,475,065.

Apfel, Joseph H.: *See*—
Ilsley, Rolf F.; Thelen, Alfred J.; and Apfel, Joseph H.,3,442,572.

Apfelbeck, Ludwig, to Bayerische Motoren Werke A.G. Cylinder head for internal combustion engines. 3,424,143, 1-28-69, Cl. 123-191.

API Instruments Company: *See*—
Quittner, George F., 3,432,747.
Weisbrod, Stephen P., 3,443,121.

Apice, Pasquale J., to Allied Chemical Corporation. Unsaturated polyester resins prepared from phosphoric acid esters. 3,433,854, 3-18-69, Cl. 260-869.

Apice, Pasquale J., to Allied Chemical Corporation. Production of methylacetylpimeloguanamine. 3,437,660, 4-8-69, Cl. 260-249.9

Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Externally biased high speed non-destructive memory device. 3,425,046, 1-28-69, Cl. 340-174.

Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Memory element with a selective non-readout characteristic. 3,430,216, 2-25-69, Cl. 340-174.

Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Externally biased high speed non- destructive memory element. 3,465,318, 9-2-69, Cl. 340-174.

Apicella, Anthony M., Jr.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. High speed associative memory. 3,465,310, 9-2-69, Cl. 340-174.

Apicella, Anthony M., Jr.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. High speed hybrid ferrite film associate apparatus. 3,466,639, 9-9-69, Cl. 7-13.64

Apicella, Anthony. Web tensioning device. 3,485,426, 12-23-69, Cl. 226-25.

Apieler, Raymond J.: *See*—
Howard, Charles F.; and Apieler, Raymond J.,3,440,955.

Apitz, Gerhard, to Heidenreich & Harbeck. Method of forming bevel gears. 3,444,655, 5-20-69, Cl. 51-287.

Apitz, Peter F., to Tamar Electronics Industries, Inc. Synchronous switching circuit for controlling the flashing operation of a signal light. 3,438,023, 4-8-69, Cl. 340-331.

APL Corporation: *See*—
Marcus, Paul, 3,468,443.

Aplin, Cyril L. Therapeutic apparatus. 3,472,222, 10-14-69, Cl. 128-25.

A.P.M. Corporation: *See*—
Solins, Milton, 3,471,158.

A. P. M. Hexseal Corporation: *See*—
Morse, Milton, 3,453,851.

Apostolescu, Steven Postelson. Helicopter-automobile-boat and air suspension car combination. 3,481,559, 12-2-69, Cl. 244-2.

Apotheloz, Robert: *See*—
Schenk, Hanspeter; and Apotheloz, Robert,3,426,683.

Appalachian Electronic Instruments, Incorporated: *See*—
Nickell, Lawrence Creigh; Fertig, Raymond Baines; Spence, Harry Robert; and Sessions, Henry T., 3,486,828.

Apparatenbouw 'MOBA' N.V.:*See*—
Mosterd, Jacob H., 3,432,034.

Appel, Arne, to North American Philips Company Inc. Control apparatus for a record carrier transmitting device. 3,421,672, 1-14-69, Cl. 226-92.

Appel, Arne: *See*—
Louzil, Friedrich; Appel, Arne; and Habelt, Gerhard,3,445,613.

Appel, Bruce R., to Shell Oil Company. Oil-extended polyurea coating compositions. 3,438,929, 4-15-69, Cl. 260-33.6

Appel, David W.: *See*—
Nelson, Herbert C.; and Appel, David W.,3,440,136.

Appel, David W., to Kimberly-Clark Corporation. Tow spreading device. 3,431,602, 3-11-69, Cl. 19-66.

Appel, Johannes Andreas: *See*—
Lindenhovius, Alex; Klaver, Petrus; and Appel, Johannes Andreas,3,447,887.

Appel, Mel, to Buddy L Corporation. Toy toll booth. 3,478,464, 11-18-69, Cl. 46-12.

Appel, Mel: *See*—
Schnur, Martin; and Appel, Mel,3,428,381.

Appel, Wallace H., to Westinghouse Electric Corporation. Room air-conditioner improved mounting arrangement. 3,476,033, 11-4-69, Cl. 98-94.

Appel, Wallace H.: *See*—
Peterson, Carl A.; and Appel, Wallace H.,3,460,878.

Appel, Walter D.: *See*—
Forster, Lloyd M., 3,480,986.

Appelbaum, Arthur, to Du Pont de Nemours, E. I., and Company. Biaxially oriented polyester film base having a sublayer of an alkyl acrylate/diallyl phthalate itaconic acid. 3,460,982, 8-12-69, Cl. 117-138.8

Appelbaum, Paul: *See*—
Cheslak, Leonard W.; Appelbaum, Paul; and Hanson, Raymond H.,3,486,658.

Appeldorn, Roger H., to Minnesota Mining and Manufacturing Company. Apparatus and method for directing a beacon toward a limited viewing area. 3,457,400, 7-22-69, Cl. 240-41.1

Appelo, Hendrik C., to Westinghouse Electric Corporation. Apparatus for energizing and de-energizing a plurality of switching devices in a predetermined sequence. 3,469,153, 9-23-69, Cl. 317-140.

Appelt, Edna. Glove drying devices. 3,477,622, 11-11-69, Cl. 223-78.

Appelt, Weldon F.; and Mason, William H. Railway supporting box beam building construction. 3,430,582, 3-4-69, Cl. 104-124.
Appenzeller, Valentin: *See—*
Kusters, Eduard; and Appenzeller, Valentin,3,448,469.
Appert, John R.: *See—*
Enstrom, Ronald E.; and Appert, John R.,3,484,208.
Appius, Max, to Mikrowa Fein-und Schnellwaagen AG. Beam for a precision balance. 3,439,762, 4-22-69, Cl. 177-235.
Appius, Max, to Mikrowa Fein-und Schnellwaagen AG. Precision balance. 3,461,987, 8-19-69, Cl. 177-178.
Appl, Max: *See—*
Nonnenmacher, Helmut; Appl, Max; Haug, Juergen; and Andrussow, Konstantin,3,431,284.
Apple , Eugene F.: *See—*
Sarver, James F.; and Apple , Eugene F.,3,430,089.
Apple, Clarence T.; and Dervan, James T., to International Business Machines Corporation. Instruction execution marker for testing computer programs. 3,427,443, 2-11-69, Cl. 235-153.
Apple, Wayne R., to Automation Industries, Inc. Infra-red flaw detector. 3,462,602, 8-19-69, Cl. 250-83.3
Apple, Wayne R.; and Maley, Dale R., to Automation Industries, Inc. Material tester. 3,483,721, 12-16-69, Cl. 72-13.
Appleby, James Kenneth, to British Aircraft Corporation (Operating) Limited. Aircraft having variable sweep-back wings. 3,480,237, 11-25-69, Cl. 244-46.
Appleby, John E. H.: *See—*
Pope, Joseph A.; and Appleby, John E. H.,3,433,083.
Appleby, John Edwin Herbert: *See—*
Pope, Joseph Albert; and Appleby, John Edwin Herbert,3,463,135.
Pope, Joseph Albert; and Appleby, John Edwin Herbert,3,480,113.
Applegate, Howard W., to Bulova Watch Company, Inc. Adjustable support. 3,424,413, 1-28-69, Cl. 248-23.
Applegate, William A. Automatic emergency brake actuation system. 3,451,501, 6-24-69, Cl. 180-99.
Appleman, Milo D., to Schroeder, Jack J. Stable emulsion animal feed containing molasses and method of producing same. 3,420,672, 1-7-69, Cl. 99-6.
Appleton, Anthony D.: *See—*
Dowsett, Brian O.; and Appleton, Anthony D.,3,443,134.
Appleton, Arthur I. Brake for fishing reels. 3,467,336, 9-16-69, Cl. 242-84.53
Appleton, Arthur I. Explosion-proof plug and receptacle with switch means. 3,475,570, 10-28-69, Cl. 200-51.07
Appleton, Bernard S. Transmission belt. 3,451,282, 6-24-69, Cl. 74-229.
Appleton, Bernard S. Transmission belt. 3,479,893, 11-25-69, Cl. 74-235.
Appleton Electric Company: *See—*
Hoday, Steve F., 3,486,712.
Appleton Machine Company: *See—*
Lamon, David E., 3,486,708.
Appleton, Norman Joseph, to Raytheon Company. Stroboscopic display device with buffer input and separate coded sync drum. 3,445,838, 5-20-69, Cl. 340-324.
Appleton Wire Works Corporation: *See—*
Haller, Herbert C., 3,436,041.
Lee, Charles A., 3,441,951.
Lee, Charles A.; and Furbeck, Warren R., 3,459,612.
Lee, Charles A., 3,474,748.
Lee, Charles A.; and Furbeck, Warren R., 3,486,956.
Purdy, Bruce B., 3,425,900.
Applewhite, Thomas H.: *See—*
Lyon, Cameron K.; and Applewhite, Thomas H.,3,466,253.
Appliance Manufacturing Company, Inc.: *See—*
Glaney, Jerry L., 3,457,802.
Appliance Operating Corporation: *See—*
Mercurio, Leonard, 3,469,874.
Applied Dynamics, Inc.: *See—*
Becker, James H., 3,460,023.
Gilbert, Edward O., 3,456,203.
Gilbert, Edward O., 3,460,047.
Gilbert, Edward O., 3,462,697.
Gilbert, Edward O., 3,475,598.
Gilbert, Edward O., 3,475,689.
Gilbert, Edward O.; and Single, Charles H., 3,484,594.
Gilbert, Elmer G., 3,480,769.
Howe, Robert M., 3,480,767.
King, Jay B., 3,443,161.
Applied Logic Corporation: *See—*
Droege, Thomas F.; and Nelson, William D., 3,467,820.
Applied Power Industries, Inc.: *See—*
Behrens, Robert L., 3,485,047.
Braniek, Charles Earl, 3,460,419.
Halwas, Larry E.; and Behrens, Robert L., 3,450,054.
Heinrich, Allan E., 3,453,965.
Leibundgut, James A., 3,463,053.
London, Alvan G., 3,472,547.
Stein, Gary, 3,450,058.
Applied Radiation Corporation: *See—*
Gallagher, William J., 3,449,618.
Applied Research and Engineering Limited: *See—*
Starmer, Roy, 3,431,179.
Starmer, Roy, 3,457,142.
Starmer, Roy, 3,461,039.
Applied Research, Inc.: *See—*
Scandurra, Aldo M., 3,465,255.
Applied Research Laboratories, Inc.: *See—*
Liebl, Helmut J., 3,445,650.
Liebl, Helmut J., 3,479,505.
Applied Science Laboratories, Inc.: *See—*
Pelick, Nicholas, 3,449,083.
Supina, Walter R.; and Fleming, George H., Jr., 3,420,080.
Apri, Edward W. Liquid spray apparatus. 3,437,274, 4-8-69, Cl. 239-599.
Apromat, Inc.: *See—*
Giesecke, Henry A., 3,433,556.
Giesecke, Henry A., 3,447,859.
Apstein, Maurice, to United States of America, Army. Electric initiator. 3,447,416, 6-3-69, Cl. 86-1.
A.P.V. Company Limited, The: *See—*
Cooper, Harry Christopher, 3,435,834.
Cooper, Harry Christopher, 3,444,891.
Usher, John Dennis, 3,448,796.
Usher, John Dennis, 3,469,615.
Wright, Felix William, 3,450,200.
Wright, Felix William; and Wilson, Alan Herbert, 3,469,626.
A.P.V.-Kestner Limited: *See—*
Martin, Edward J.; and Radcliffe, Bryan R., 3,458,942.
Aqua Filter, Inc:: *See—*
Smith, Delbert D., 3,436,343.
Aqua Tec Corporation: *See—*
Cammack, Michael A., 3,425,410.
Deines, Siegmund; Jeffers, Homer A., Jr.; Monroe, Wayne W.; and Mattingly, John W., 3,484,885.
Mattingly, John W., 3,453,969.
Mattingly, John W., 3,467,083.
Aqua-Chem, Inc.: *See—*
Clark, George B.; and Kavanagh, James A., 3,430,360.
Gething, Frank, 3,421,496.
Gething, Frank, 3,477,411.
Goeldner, Richard W., 3,480,515.
Loebel, Frederick A., 3,433,717.
Morton, Evans T., 3,445,344.
Aqua-vel: *See—*
Fleischman, Raymond N., 3,425,925.
Aquacare International Ltd.: *See—*
Robertson, Gordon W., 3,456,107.
Aquafine Corporation: *See—*
Veloz, Louis P., 3,471,693.
AquaMatic Inc.: *See—*
Whitlock, Robert A., 3,467,255.
Whitlock, Robert A., 3,480,041.
Aquamation Inc.: *See—*
Carsten, Paul W., 3,460,798.
Aquapure, Inc.: *See—*
Wallace, Gordon L., 3,471,020.
Aquariums Incorporated: *See—*
Willinger, Allan H., 3,477,580.
Aquatic Controls Corporation: *See—*
Just, Jerome O.; and Stern, Howard W., 3,477,213.
Aquino, Herman A.; Ferris, Ray L.; Mundinger, William A.; and Schuller, James J., to Pullman Incorporated. doors. 3,471,044, 10-7-69, Cl. 214-63.
Aquino, Victor D. Submergible housing device. 3,477,234, 11-11-69, Cl. 61-69.
A&R Meats, Inc.: *See—*
Carlson, Arthur W.; and Carlson, Ralph J., 3,434,697.
Ar-Kay Enterprises, Inc.: *See—*
Globerman, Irving; and Kaplan, Robert S., 3,464,497.
Aragona, Robert J. Underwater breathing devices with valved air supply means. 3,467,091, 9-16-69, Cl. 128-145.
Arai, Hazime: *See—*
Ono, Terumichi; Mizutani, Shigeru; and Arai, Hazime,3,439,084.
Arai, Hirokazu: *See—*
Nakaguchi, Kohei; Arai, Hirokazu; Kondo, Nakataro; and Manabe, Kuniyoshi,3,465,035.
Arai, Hirokazu; and Yano, Tsurutake, to Sumitomo Chemical Company, Ltd.Method for treating crude bis-β- hydroxyethyl terephthalate. 3,487,100, 12-30-69, Cl. 260-475.
Arai, Noboru: *See—*
Yamamoto, Kazumi; Iwasa, Mitsuhiro; Ema, Kenji; and Arai, Noboru,3,422,037.
Arai, Tashiro: *See—*
Hirata, Toshio; Arai, Tashiro; and Yamaguchi, Kazuhide,3,485,095.

Arai, Yasumichi: *See—*
Shirasu, Hirotoshi; Akiyama, Tadahiko; and Arai, Yasumichi,3,445,605.
Araikawa, Noboru, to Mitsubishi Jokogyo Kabushiki Kaisha. One way positive clutch with snap operator. 3,481,437, 12-2-69, Cl. 192-89.
Araikawa, Noboru: *See—*
Yamate, Shiro; and Araikawa, Noboru,3,468,178.
Arakawa Rinsan Kagaku Kogyo Kabushiki Kaisha: *See—*
Yoshioka, Hiroshi; Oishi, Toshio; and Kanehira, Kenji, 3,468,829.
Arakawa, Saburo: *See—*
Ishimitsu, Akitoshi; Sugahara, Kinichi; Arakawa, Saburo; and Kitazawa, Tadao,3,482,964.
Arakawa, Seiji; Tominaga, Sunao; and Terase, Tsuneo, said Terase assor to said Arakawa, said Tominaga. Process for producing fishmeals. 3,437,489, 4-8-69, Cl. 99-7.
Arakawa, Soji: *See—*
Watanabe, Jun; Arakawa, Soji; and Fukuoka, Tokuji,3,443,986.
Arakawa, Takeshi: *See—*
Kotaka, Yasukuni; Arakawa, Takeshi; and Kamata, Takemi,3,430,120.
Araki, Hidejiro: *See—*
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu,3,457,597.
Araki, Mataichi: *See—*
Yokogawa, Mutsuo; Asaka, Shigefumi; and Araki, Mataichi,3,450,584.
Araki, Takeo: *See—*
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu,3,454,614.
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu,3,454,615.
Araki, Yoshiro, to Mitsubishi Jukogyo Kabushiki Kaisha. High tenacity chromium-nickel manganese austenitic steel. 3,440,038, 4-22-69, Cl. 75-128.
Aralov, Vyacheslav Ivanovich: *See—*
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.
Aramendia, Mauro M.; and Armant, David L., to National Lead Company. Method for producing titanium dioxide concentrate from massive ilmenite ores. 3,457,037, 7-22-69, Cl. 23-202.
Aranar Marketing Services, Inc.: *See—*
Paige, Richard E., 3,466,776.
Arant, Gene W.: *See—*
Lee, Robert L., 3,452,439.
Aranyi, Steven F.; Barlow, Jesse P.; Rakocz, Laszlo L.; and Torfeh, Mark A., to General Electric Company. Data storage access control apparatus for a multicomputer system. 3,440,616, 4-22-69, Cl. 340-172.5
Arao, Yuzuru: *See—*
Aoki, Setsuo; Shono, Setsuo; Ito, Ryoji; Arao, Yuzuru; and Hukunaga, Masao,3,458,175.
Arase, Shingo, to Hoffman Electronics Corporation. RMS voltage regulator. 3,470,451, 9-30-69, Cl. 321-18.
Arawaka, Tsukasa: *See—*
Watanabe, Yasuo; Arawaka, Tsukasa; and Iwasaki, Tomio,3,470,150.
Arazi, Efraim R., to Itek Corporation. Stabilization system for a laser range finder. 3,435,227, 3-25-69, Cl. 250-199.
Arban, Bert S.: *See—*
Tuthill, Jay D.; Kulka, Nicholas; and Arban, Bert S.,3,428,471.
ARBED Acieries Reunies de Burbach-Eich-Dudelange, S.A.: *See—*
Glaesener, Ernest, 3,476,549.
Arbeitlang, Erich, to Bolkow Gesellschaft mit beschrankter Haftung. Device for transmitting rotary motion. 3,478,607, 11-18-69, Cl. 74-18.1
Arber, Rowland Sackville Preston, to Udic Limited. Apparatus for sterilizing bottle caps before delivery to a bottle capping apparatus. 3,455,644, 7-15-69, Cl. 21-93.
Arbit, Harold A., to Beloit Corporation. Bonding technique and apparatus for plastic structures. 3,421,960, 1-14-69, Cl. 156-244.
Arbit, Harold A., to Beloit Corporation. Plastic extrusion coater. 3,421,964, 1-14-69, Cl. 156-244.
Arbiter, Nathaniel. Beneficiation of ores by froth flotation using sulfosuccinamates. 3,469,693, 9-30-69, Cl. 209-166.
Arbter, Erhard, to Varta Pertrix-Union G.m.b.H. Galvanic cell. 3,440,110, 4-22-69, Cl. 136-166.
Arbuckle, Wendell S., to Lease, Charles W. Process of preparing a thixotropic milk shake. 3,479,187, 11-18-69, Cl. 99-60.
Arc-Co Incorporated: *See—*
Pepe, Frank W., 3,430,905.
Pepe, Frank W., 3,461,708.
ARCA Premoncontrole: *See—*
Gineste, Robert Maurice, 3,455,166.
Male, Lucien, 3,435,850.
Arcamone, Federico: *See—*
Franceschi, Giovanni; and Arcamone, Federico,3,468,931.
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo, to Societa Farmaceutici Italia. Pyrrole-2-carboxamidopropionamidines. 3,420,844, 1-7-69, Cl. 260-326.3
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo, to Societa Farmaceutici Italia. Pyrrole-2-carboxamido amidines. 3,420,845, 1-7-69, Cl. 260-326.3
Arcana Kommanditgesellschaft Dr. G. Hurka: *See—*
Hanke, Karl, 3,481,830.
Arcangeli, Lino. Hydraulic boom particularly for blast hole drilling methods. 3,470,969, 10-7-69, Cl. 173-43.
Arcano, Stephen; and Barber, William Austin, to American Cyanamid Company. Method of chemically reducing noble metal compounds. 3,457,116, 7-22-69, Cl. 136-120.
Arcari, Robert N. Self-adjusting safety reel. 3,471,100, 10-7-69, Cl. 242-107.4
Arce, Henry L.; and Whitener, Jack L., to Ametek, Inc., mesne. Compass card autopilot with 360 degree directional control. 3,465,221, 9-2-69, Cl. 318-18.
Arceneaux, James G., Sr. Sugar cane planter. 3,444,913, 5-20-69, Cl. 146-98.
Arch, Andrew E., to Burroughs Corporation. Tape handling element. 3,443,273, 5-13-69, Cl. 15-308.
Archacki, William J.: *See—*
Gresenz, William M.; Bendrick, Edward S.; Weber, Bruce R.; and Archacki, William J.,3,483,149.
Archambeau, James J.; and Greskowiak, Maurice J., to McKee, Arthur G., & Company. Charging apparatus for an enclosure. 3,439,816, 4-22-69, Cl. 214-29.
Archer, Alva I., to Honeywell Inc. Photo-detector. 3,453,507, 7-1-69, Cl. 317-235.
Archer, Alva I., to Honeywell Inc, Semiconductor memory. 3,475,735, 10-28-69, Cl. 340-173.
Archer, Bill; and Low, John Lewis, III, to Arlo, Inc. Method for pumping a column. 3,469,358, 9-30-69, Cl. 52-115.
Archer, Bill; and Low, John Lewis, III, to Arlo, Inc. Method for developing a column. 3,471,980, 10-14-69, Cl. 52-115.
Archer Daniels Midland Company: *See—*
Cole, Morton S., 3,479,191.
Archer, Dave H.: *See—*
Putnam, Richard E.; Brecher, Lee E.; Archer, Dave H.; and Zahradnik, Ray L.,3,437,325.
Archer, David Frederick; and Harris, Glyn Islwyn, to Midland Silicones Limited. Organosilicon modified materials. 3,480,584, 11-25-69, Cl. 260-46.5
Archer, David H.; Glasser, Albert D.; Sverdrup, Edward F.; and Taylor, Herbert L., to United States of America, Interior, mesne Traction (Societe Anonyme). Platinum type electrode for a solid electrolyte fuel cell. 3,433,680, 3-18-69, Cl. 136-120.
Archer, Fred Curtis: *See—*
DeDiemar, Ronald B.; and Archer, Fred Curtis,3,473,744.
Archer, Fred Curtis, to Barber-Greene Company. Sand classifier with blending system. 3,467,281, 9-16-69, Cl. 222-70.
Archer, Giles A.; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Process for the preparation of 1,4- benzodiazepine 4-oxides. 3,446,806, 5-27-69, Cl. 260-247.5
Archer, Giles A.; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Preparation of 1,4-benzodiazepin-2-one-4-oxide from 2-lower alkoxy-1,4-benzodiazepine-4-oxide. 3,462,418, 8-19-69, Cl. 260-239.3
Archer, Giles Allan; and Sternbach, Leo Henryk, to Hoffmann-La Roche, Inc. 5 Phenyl-3H-1,4-benzodiazepine-2(1H)-thione and derivatives thereof. 3,422,091, 1-14-69, Cl. 260-239.
Archer, Jean Francois, to Ste. anonyme dite: STAS, Societe Technique d' Accessoires Specialises. Lifting device for lifting metal sheets. 3,442,548, 5-6-69, Cl. 294-104.
Archer, Jean Francois, to Ste Anonyme dite, STAS Societe Technique d'Accessoires Specialises. Shackle for coupling a chain to a terminal ring or hook. 3,473,320, 10-21-69, Cl. 59-87.
Archer, John A.: *See—*
Purnaiya, Gopal M.; Archer, John A.; and Gibbons, James F.,3,483,477.
Archer, John Cardiff, to Burns & Roe, Inc. Method of constructing a containment and radiation shielding system. 3,471,599, 10-7-69, Cl. 264-32.
Archer, John Wesley; and Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Apparatus for deep drawing solid plastic materials. 3,452,566, 7-1-69, Cl. 72-60.
Archer, Lee A.; and Peterman, Russel S., to Erdco Engineering Corporation. Combustible gas detector apparatus. 3,484,773, 12-16-69, Cl. 340-237.
Archer Products, Incorporated: *See—*
Conrad, Lucas J.; and Everhart, John R., 3,479,852.
Archer, Richard John, to Hudson, E. W., Limited. Drying machines. 3,422,882, 1-21-69, Cl. 165-1.
Archer, Richard John, to Hudson, E. W., Limited. Leather drying machines. 3,438,137, 4-15-69, Cl. 34-92.
Archer, Robert J.: *See—*
Atalla, Martin M.; Archer, Robert J.; Hall, Robert D.; and Engelman, Reinhart W. H.,3,422,289.

Archer, Sydney, to Sterling Drug Inc.1-[(3-Indolyl)-lower-alkyl]-4-substituted- piperazines. 3,466,287, 9-9-69, Cl. 260-268.
Archer, Sydney, to Sterling Drug Inc.Pyrazino[1',2':1,2]pyrido[3,4-b]indoles. 3,468,890, 9-23-69, Cl. 260-268.
Archer, Sydney, to Sterling Drug Inc.1-[(Pyrido[2,1-c]-s-triazolyl)-lower-alkyl]-4- substituted-piperazines. 3,472,853, 10-14-69, Cl. 260-268.
Archer, Sydney, to Sterling Drug Inc.1-[(Benzimidazolyl)-lower-alkyl]-4- substituted piperazines. 3,472,854, 10-14-69, Cl. 260-268.
Archer, Sydney, to Sterling Drug Inc.1-[(Benz[q]-indolyl)-lower-alkyl]-4- substituted-piperazines. 3,472,855, 10-14-69, Cl. 260-268.
Archer, Sydney, to Sterling Drug Inc.1-[(Thianaphthenyl)-lower-alkyl]-4- substituted-piperazines. 3,472,856, 10-14-69, Cl. 260-268.
Archer, Wesley L.; and Graybill, George Richard, to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,467,722, 9-16-69, Cl. 260-652.5
Archer, Wesley L.; and Harter, Miriam, to Dow Chemical Company, The. Corrosion inhibition. 3,449,262, 6-10-69, Cl. 252-396.
Archer, Wesley L.; and Simpson, Elbert L., to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,444,247, 5-13-69, Cl. 260-652.5
Archer, Wesley L.; and Simpson, Elbert L., to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,452,107, 6-24-69, Cl. 260-652.5
Archer, Wesley L.; and Simpson, Elbert L., to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,454,659, 7-8-69, Cl. 260-652.5
Archer, Wesley L.; and Simpson, Elbert L., to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,468,966, 9-23-69, Cl. 260-652.5
Archer, Wesley L.; and Simpson, Elbert L., to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,472,903, 10-14-69, Cl. 260-652.5
Archer, Wesley L.; and Simpson, Elbert L., to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,475,503, 10-28-69, Cl. 260-652.5
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard, to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,444,248, 5-13-69, Cl. 260-652.5
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard, to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,452,108, 6-24-69, Cl. 260-652.5
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard, to Dow Chemical Company, The. Stabilization of 1,1,1-trichloroethane. 3,452,109, 6-24-69, Cl. 260-652.5
Archer, William E.; Coe, Everett L., Jr.; and Reed, Leo O., to Joy Manufacturing Company. Method of making an electrical rapper. 3,477,124, 11-11-69, Cl. 29-592.
Archer, William E.; Coe, Everett L., Jr.; and Reed, Leo O. Electrical precipitator and operating method. 3,485,011, 12-23-69, Cl. 55-2.
Archer-Daniels-Midland Company: *See*—
Atkinson, William T., 3,480,442.
Hamdy, Mokhtar M.; and White, Howard S., 3,471,303.
Hamdy, Mokhtar M.; and White, Howard S., 3,471,304.
Larimer, Victor Lewis, 3,468,920.
Archibald, Don M.: *See*—
Kramer, Kenneth C.; and Archibald, Don M.,3,467,344.
Archibald, Emanuel R. Hook holder and line cutter. 3,419,924, 1-7-69, Cl. 7-14.1
Archibald, James B.: *See*—
Shartrand, Allan C.; Holley, Charles H.; and Archibald, James B.,3,461,329.
Archibald, John L.: *See*—
Childress, Scott J.; and Archibald, John L.,3,462,440.
Freed, Meier E.; and Archibald, John Leheup,3,459,770.
Freed, Meier E; and Archibald, John L.,3,462,441.
Archibald, John L., to American Home Products Corporation. Pyridylethyl and piperidylethyl pyrroles. 3,429,885, 2-25-69, Cl. 260-294.3
Archibald, John L., to American Home Products Corporation. 2,5-Bis(pyridylethyl)pyrroles. 3,431,268, 3-4-69, Cl. 260-293.
Archibald, John L., to American Home Products Corporation. Mono and di-aroyl pyridylethyl and piperidylethyl indoles. 3,445,472, 5-20-69, Cl. 260-293.4
Archibald, John L.; and Freed, Meier E., to American Home Products Corporation. Piperazine substituted pyrroles. 3,458,515, 7-29-69, Cl. 260-268.
Archibald, John L.; and Freed, Meier E., to American Home Products Corporation. 1,4-Bis-(2-indol-3-yl-ethyl)piperazines. 3,471,499, 10-7-69, Cl. 260-268.
Archibald, Paul B.: *See*—
Finger, Milton; James, Edward, Jr.; and Archibald, Paul B.,3,480,490.
Archilithic Co., The: *See*—
Winn, James B., Jr., 3,478,963.
Archipoff, Alexis: *See*—
Sambeth, Joerg; and Archipoff, Alexis,3,432,448.
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre,3,451,953.
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre,3,451,954.
Archipov, Vsevolod: *See*—
Andersen, Allen K.; and Archipov, Vsevolod,3,483,568.
Arcieri, Emanuel R.: *See*—
Sacco, Gloria C.; and Arcieri, Emanuel R.,3,425,389.
Arco Corporation: *See*—
Light, Allen E., 3,443,376.
Arcoa, Incorporated: *See*—
Abromavage, John C.; and Reichardt, Harry J., 3,436,100.
Abromavage, John C.; and Reichardt, Harry J., 3,442,112.
Abromavage, John C.; and Reichardt, Harry J., 3,464,246.
Abromavage, John C.; and Frader, Edward A., 3,464,720.
Shoen, Ramon, 3,470,871.
Arcos Corporation: *See*—
Colinet, Rene D.; and Norcross, James E., 3,437,786.
Wilcox, Wayne L., 3,424,892.
Wilkes, Raymond H., 3,437,251.
Arctic Enterprises, Inc.: *See*—
Swenson, Lowell T.; and Skime, Roger H., 3,485,312.
Arcudi, Joseph L., to Becton, Dickinson and Company, mesne. Dispensing applicator package. 3,466,131, 9-9-69, Cl. 401-132.
Ardanuy, Angel Pascual: *See*—
Gumucio, Ricardo Salcedo; and Ardanuy, Angel Pascual,3,440,100.
Ardary, Zane L., to United States of America, Atomic Energy Commission. Device for conducting crushing and screening operations simultaneously. 3,465,972, 9-9-69, Cl. 241-69.
Ardco, Inc.: *See*—
Aisanich, Daniel J., 3,449,551.
Aisanich, Daniel J., 3,475,594.
Arde, Inc.: *See*—
Price, Joseph, 3,421,661.
Zeff, Jack D., 3,487,016.
Arden, John: *See*—
Jordan, Leslie H.; and Arden, John,3,466,410.
Arden, Manuel E.: *See*—
Annessa, Domenico Marcilli, 3,463,490.
Ardis, Alan E.; and Wojtowicz, John A., to Olin Mathieson Chemical Corporation. 3-Alkenoxyoxetanes. 3,446,819, 5-27-69, Cl. 260-333.
Ardito, Victor P.; Bishop, Harry L.; and Woodcock, Ray E., to Allegheny Ludlum Steel Corporation. Process control of top-blown oxygen converter. 3,432,288, 3-11-69, Cl. 75-60.
Arditti, Mordechai. Automobile theft alarm system. 3,464,060, 8-26-69, Cl. 340-64.
Ardmaer Trucking Co., Inc.: *See*—
Jasovsky, Joseph F., 3,420,546.
Ardoino, Gian Luigi, to Fiat Societa per Azioni. Fluid flow metering system. 3,421,373, 1-14-69, Cl. 73-219.
Ardolino, Edward J. Cartridge magazine with a spring whose force against the cartridge may be selectively increased. 3,443,334, 5-13-69, Cl. 42-50.
Ardron, Geoffrey, to Courtaulds Limited. Yarn-stripping device. 3,471,909, 10-14-69, Cl. 28-19.
Aremaa, Toivo Ensio, to Osakeyhtio, A. Ahlstrom. Apparatus for treating slurries or gases with screen or filter surfaces under pressure. 3,455,821, 7-15-69, Cl. 210-414.
Arenco Aktiebolag: *See*—
Garney, Karl; and Winkler, Gunnar, 3,424,885.
Osterdahl, Ragnar, 3,479,794.
Arenco Electronics AB: *See*—
Raman, Ruue, 3,464,042.
Arend, Donald P. Circuit analysis system. 3,423,846, 1-28-69, Cl. 35-19.
Arendarski, Marion, to Pneumo Dynamics Corporation. Air-oil suspension. 3,426,651, 2-11-69, Cl. 92-26.
Arendarski, Marion, to Pneumo Dynamics Corporation. Bi-directional metering shock absorber. 3,461,991, 8-19-69, Cl. 188-88.
Arendt, Alfred; Nagele, Erwin; and Wolf, Karl, to Bosch, Robert, G.m.b.H. Starting arrangement for internal combustion engines with fuel injection. 3,485,226, 12-23-69, Cl. 123-142.5
Arendt, Hans Fritz. Roller presses for the removal of water from clean wet washing. 3,465,555, 9-9-69, Cl. 68-244.
Arendt, Harry S., to Esso Production Research Company, mesne. Method and apparatus for operating in wells. 3,426,851, 2-11-69, Cl. 166-255.
Arendt, Harry S., to Esso Research and Engineering Company. Underground storage for LNG. 3,477,509, 11-11-69, Cl. 166-252.
Arendt, Stanley M., to Fansteel Inc. Boring bar cartridge. 3,427,904, 2-18-69, Cl. 77-58.
Arens Controls Inc.: *See*—
Rech, Raymond G., 3,439,555.
Arens, Egidius: *See*—
Hemmie, Gerd; and Arens, Egidius,3,453,589.
Arens, Herman J.A.C., to National Geographic Society. Slide comparator. 3,472,584, 10-14-69, Cl. 353-21.

Arens, Josef Ferdinand; and Brandsma, Lambert, to Organon Inc. Compounds of the vitamin A series. 3,422,151, 1-14-69, Cl. 260-611.

Arens, Robert P.; and Sweeny, Norman P., to Minnesota Mining and Manufacturing Company. Encapsulation process. 3,423,489, 1-21-69, Cl. 264-4.

Arens, Robert P.: *See—*
Peake, John S.; and Arens, Robert P.,3,442,690.

Arentoft, Holger; and Eggstein, Giorgio, to Heinkel, Ernst, Aktiengesellschaft. Power brake arrangement. 3,422,622, 1-21-69, Cl. 60-54.5

Arentsen, William R.: *See—*
Wrausmann, Richard C.; and Arentsen, William R.,3,452,590.

Ares, Roland A. Method of making a prestressed heat exchanger. 3,457,620, 7-29-69, Cl. 29-157.3

Aretos, Constantin: *See—*
Kalopissis, Gregoire; and Aretos, Constantin,3,484,417.

Arfelt, Soren Christian Schoubye, to Henriksen & Henriksen I/S. Slide valve for opening and closing at least one passage for a flowing medium and an apparatus comprising at least one such slide. 3,472,278, 10-14-69, Cl. 137-624.2

Arfin, Bernard; and Shively, James F., to Varian Associates. TWT with cloverleaf slow-wave circuit having specially shaped coupling slots. 3,448,326, 6-3-69, Cl. 315-3.5

Argabright, Perry A., to Marathon Oil Company. Polyurethanes cross-linked with tetrolin-1,4-diol. 3,451,969, 6-24-69, Cl. 260-75.

Argabright, Perry A.; and Hall, David W., to Marathon Oil Company. Preparation of cyanoethers. 3,427,322, 2-11-69, Cl. 260-340.6

Argabright, Perry A.; Sinkey, Vernon J.; and Phillips, Brian L., to Marathon Oil Company. Isocyanurate-containing polyisocyanates. 3,458,448, 7-29-69, Cl. 252-182.

Argabright, Perry A.: *See—*
Patton, James W.; Argabright, Perry A.; Drayer, Dennis E.; and Fox, Dale B.,3,471,555.
Stogryn, Eugene L.; Argabright, Perry A.; and Leary, Ralph J.,3,441,518.

Argauer, Robert J., to Mobil Oil Corporation. Crystalline galliosilicates. 3,431,219, 3-4-69, Cl. 252-455.

Arge, T. H., Company, Inc.: *See—*
Arge, Thorstein, 3,423,073.

Arge, Thorstein, to Arge, T. H., Company, Inc. Chemical blender. 3,423,073, 1-21-69, Cl. 259-4.

Argentieri, Michael: *See—*
Sabadishin, Steve; and Argentieri, Michael,3,475,958.

Argoudelis, Alexander D., to Upjohn Company, The. Lincomycin complexes and process for preparing the same. 3,448,097, 6-3-69, Cl. 260-210.

Argoudelis, Alexander D.; Grady, Joseph E.; and Sayer, Gordon C., to Upjohn Company, The. Pentakis [N-(sulfomethyl] circulin and salts thereof. 3,476,738, 11-4-69, Cl. 260-112.5

Argoudelis, Alexander D.; and Pyke, Thomas R., to Upjohn Company, The. Antibiotics rancomycin I, rancomycin II, their 2, 4-dinitrophenichydrazones, and microbiological and chemical process for preparing the same. 3,476,857, 11-4-69, Cl. 424-118.

Argue, Gary R.; and Owens, Boone B., to North American Rockwell Corporation. Solid state electrochemical devices. 3,443,997, 5-13-69, Cl. 136-83.

Argus Chemical Corporation: *See—*
Friedman, Ronald L.; and Lewis, Roger N., 3,444,230.
Hecker, Arthur C.; and Abramoff, Charles, 3,472,813.
Hecker, Arthur C.; and Thee, Alfred, 3,479,309.
Ishii, Yoshio; and Sakai, Shizuyoshi, 3,446,752.
Kauder, Otto S., 3,458,472.
Kauder, Otto S.; Leistner, William E.; and Hecker, Arthur C., 3,476,699.
Kauder, Otto S., 3,483,159.
Pollock, Mark W.; and Hecker, Arthur C., 3,429,841.
Pollock, Mark W., 3,453,225.
Setzler, William E., Jr., 3,458,536.

Argus Engineering Company: *See—*
Costello, Bernard J., 3,469,061.

Argus Incorporated: *See—*
Michniewicz, Edward J., 3,485,558.

Arias, Henry, Jr.: *See—*
Gorton, Howard B.; and Arias, Henry, Jr.,3,432,879.

Arias, Henry, Jr.; and Fremstad, Viles K., to Ajax Hardware Manufacturing Corp. Cabinet hinge having separable hinge leaves. 3,423,786, 1-28-69, Cl. 16-171.

Ariens, Mando S.: *See—*
Gatzke, Harold E.; Ariens, Mando S.; and Doty, Vernon G.,3,450,074.

Ariga, Kinji; Takamizawa, Minoru; Harada, Haruo; Komiya, Akitoshi; Takaya, Seiki; and Umemura, Mitsuo, to Shin-Etsu Kagaku Kogyo Kabrishiki Kaisha. Method for preparing monomethyldichlorosilane. 3,454,616, 7-8-69, Cl. 260-448.2

Arikawa, Yoshiyuki; and Waite, Hal R., to United States of America, Navy, mesne. Flare composition comprising magnesium, soium perchlorate, and a ternary organic binder. 3,462,325, 8-19-69, Cl. 149-19.

Arima, Kei; Tamura, Gakuzo; Narasaki, Teiiti; Nakamura, Yoshio; and Saiki, Takashi, to Amano Seiyaku Kabushiki Kaisha. Method for the preparation of a lipoprotein lipase by cultivating organisms. 3,431,175, 3-4-69, Cl. 195-62.

Arimitsu, Hidenobu: *See—*
Matsumoto, Nobuo; and Arimitsu, Hidenobu,3,461,067.

Arino, Hirofumi, to Union Carbide Corporation. Production of high purity radioactive technetium-99m. 3,468,808, 9-23-69, Cl. 252-301.1

Arino, Hirofumi: *See—*
Kramer, Henry H.; and Arino, Hirofumi,3,450,597.

Arita, George R. Steam cooker. 3,485,163, 12-23-69, Cl. 99-413.

Aritomi, Jiro: *See—*
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki,3,470,164.

Ariyan, Zaven S., to Uniroyal, Inc. Alkyl- or aryl-4-antipyrylmonosulfides and method for preparing same. 3,479,369, 11-18-69, Cl. 260-310.

Ariyasu, Kenji; and Tsuji, Akira, to Fuji Shashin Film Kabushiki Kaisha. Wrapper for photo-sensitive sheet films. 3,458,033, 7-29-69, Cl. 206-62.

Arizona Chemical Company: *See—*
D'Agostino, Vincent Francis, 3,445,409.
Herrlinger, Richard; Kirkland, Claude James; and Ciesielski, Leo Frank, 3,432,402.
Milks, John Edward; and Conroy, Natalie Hetman, 3,422,124.
Milks, John Edward, 3,439,007.
Milks, John Edward; and Scharrer, Roland Pierre, 3,439,024.
Wheelus, Charles Glenn, 3,423,389.

Ark-Les Switch Corporation: *See—*
Fisher, Harold Francis, 3,422,395.

Arkansas Company, Inc.: *See—*
Cook, Alton A.; and Sapers, Ira, 3,434,795.
Sapers, Ira, 3,472,607.

Arkansas Grain Corporation: *See—*
Bloomberg, Fritiof M.; and Hutchins, Thomas W., 3,425,938.

Arkel, Peter; and Schnell, Solomon S., said Arkel assor. to said Schnell. Control apparatus for automatic equipment. 3,422,316, 1-14-69, Cl. 317-33.

Arkell, Alfred; Reinhard, Russell R.; Heisler, Robert Y.; and Larson, Lewis P., to Texaco Inc. Mono-oxygen monofluoride and method of preparation. 3,454,369, 7-8-69, Cl. 23-315.

Arkenbout, Gerardus Johannes: *See—*
Smit, Wilhelm Matthijs; and Arkenbout, Gerardus Johannes,3,463,606.

Arkens, Charles T., to Du Pont de Nemours, E. I., and Company. Storage-stable monomer composition. 3,427,294, 2-11-69, Cl. 260-86.1

Arkless, Kenneth: *See—*
Groes, James Dennis; and Arkless, Kenneth,3,463,610.

Arkneklev, Duane R.: *See—*
Brokke, Mervin E.; Lukes, George E.; and Arkneklev, Duane R.,3,420,655.

Arko, Robert E., to Teletype Corporation. Telegraph transmitter control circuit. 3,420,948, 1-7-69, Cl. 178-4.1

Arkorp: *See—*
Arseneau, Roger E., 3,486,017.

Arkwright, George A., Jr.: *See—*
Schwartz, Arthur; Arkwright, George A., Jr.; and Curtin, Thomas D.,3,424,894.

Arkwright, Peter: *See—*
Czarnecki, Jerzy J.; and Arkwright, Peter,3,476,053.

Arledge, Arthur E., Jr., to Carrier Corporation. Air-conditioning apparatus. 3,450,342, 6-17-69, Cl. 236-1.

Arlen Trophy Company, Inc.: *See—*
Greenhouse, David, 3,424,464.

Arlers, Sven Anders; and Hallen, Jan-Ake. Dentist's wedge. 3,473,226, 10-21-69, Cl. 32-64.

Arlin, Max: *See—*
Conrad, Tom J.; Dayton, Glenn O., Jr.; and Arlin, Max,3,431,046.

Arlo, Inc.: *See—*
Archer, Bill; and Low, John Lewis, III, 3,469,358.
Archer, Bill; and Low, John Lewis, III, 3,471,980.

Arlon N.V.: *See—*
Lammers, Lambertus J. A., 3,421,627.

Arlside Limited: *See—*
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor, 3,471,882.

Arlt, Herbert George, Jr.; and Myatt, Charles Oliver, to American Cyanamid Company. Etylene-propylene terpolymer rubber composition with improved tack. 3,438,918, 4-15-69, Cl. 260-22.

Arm, Inc.: *See—*
Bauer, Richard A., 3,452,312.

Arma Corporation: *See—*
De Gain, William J., 3,457,762.

Armand, Harold A.: *See—*
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr.,3,423,677.

Armand, Marc Roger: *See—*
Fouche, Lucien Frederic Henri Marcel; and Armand, Marc Roger,3,431,893.
Armand, Walter R. Temperature and pressure control device for automotive heaters. 3,431,943, 3-11-69, Cl. 137-625.31
Armant, David L.: *See—*
Aramendia, Mauro M.; and Armant, David L.,3,457,037.
Armantrout, Robert J.; and Person, Burton C., to Hercules Incorporated. Aqueous slurry type explosive containing the combination of a nitrite and sulfamate and/or sulfamic acid as aeration agent. 3,449,181, 6-10-69, Cl. 149-60.
Armato, Ben N. Musical instrument reed measuring device and method for adjusting reeds. 3,477,133, 11-11-69, Cl. 33-147.
Armbrust, Bernard F., Jr.; and Carithers, Val G., to Reynolds Metals Company. Alumina trihydrate-fibrous matrix composition and method of forming same. 3,477,865, 11-11-69, Cl. 106-209.
Armbruster, Frederick C.; and Kooi, Earl R., to Corn Products Company. Production of cyclodextrin. 3,425,910, 2-4-69, Cl. 195-31.
Armbruster, Fritz. Electrical heating mat with automatic temperature control. 3,448,246, 6-3-69, Cl. 219-528.
Armbruster, Fritz; and Rudolph, Martin, said Armbruster assor to Diener & Roth. Method of molding hollow bodies. 3,479,421, 11-18-69, Cl. 264-98.
Armbruster, Howard L.: *See—*
Mason, Gilbert E.; and Armbruster, Howard L.,3,431,106.
Armbruster, Jean-Claude, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Monitoring and sorting arrangement for mass-produced articles. 3,464,549, 9-2-69, Cl. 209-75.
Armbruster, Ronald H. D.; and Hubert, Joseph B., to Bliss, E. W., Company. Rotary drawing, ironing and doming press for partially extruded can bodies. 3,446,167, 5-27-69, Cl. 113-7.
Armco Steel Corporation: *See—*
Ballard, Donald S.; Wilson, Charles R.; and Burns, Harlan G., 3,468,569.
Buker, Paul S.; Taylor, Donald M.; and Weich, Peter J., 3,466,727.
Clements, William C., 3,482,409.
Fadden, James P.; and Moore, Frederick L., 3,433,398.
Goeppel, Allen A., 3,435,962.
Hoffman, Floyd C.; and Miller, Theodore W., 3,478,558.
Marshall, William E.; and Kerschbaum, Arthur P., 3,458,307.
Morton, Ted R.; and Douglass, George A:, 3,446,172.
Oganowski, Kasimir; and Pierson, Marvin B., 3,429,164.
Taylor, Donald M., 3,481,094.
Armed Forces Equipment Development Corporation: *See—*
Garrette, Charles H., Jr.; and Ryan, Harry Michael, 3,474,833.
Armel Arts, Mecanique, Electronique: *See—*
Destelle, Jean, 3,474,182.
Armelin, Edouard R.: *See—*
Breacker, Edward A.; and Armelin, Edouard R.,3,443,769.
Breacker, Edward Albert; and Armelin, Edouard R.,3,430,880.
Armelin, Edouard Roger; and Plaskett, Arthur Frederick George, to Societe d'Etudes de Machines Speciales. Slitting knives. 3,452,943, 7-1-69, Cl. 242-56.3
Armelin, Edouard Roger; and Plaskett, Arthur Frederick George, to Societe d'Etudes de Machines Speciales. Knives. 3,468,203, 9-23-69, Cl. 83-433.
Breacker, Edward Albert; and Armelin, Edouard,3,421,709.
Armendariz, Israel. Underwater eyemask. 3,483,569, 12-16-69, Cl. 2-14.
Armento, William H.: *See—*
Huey, William G.; Armento, William H.; and Stanley, Lester N.,3,437,418.
Stanley, Lester N.; and Armento, William H.,3,458,272.
Armentrout, Arthur L. Well fluid additive and method of making the same. 3,433,740, 3-18-69, Cl. 252-8.5
Armes, Gerald Lee; and Gregg, James Leslie, to General Motors Corporation. Apparatus for determining the operability of vehicle radio components. 3,467,867, 9-16-69, Cl. 325-363.
Armijo, Joseph S., to United States of America, Atomic Energy Commission. Stainless steel alloy with low phosphorous content. 3,486,885, 12-30-69, Cl. 75-128.
Armington, George E.; and Boytz, Charles B., to Euclid Crane and Hoist Company, The. Load transfer and storage mechanism. 3,467,264, 9-16-69, Cl. 214-16.4
Armington, Raymond Q.; and Atwater, Wayne G., to Triax Company, The. Apparatus for producing concurrent movement of an article carrier in a warehouse system. 3,485,389, 12-23-69, Cl. 214-16.4
Armitage, John L., & Co.: *See—*
Jeff, William C.; and Luyster, Thomas, Jr., 3,420,692.
Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., 3,480,691.
Armond, Charles V. Shower spray unit. 3,454,229, 7-8-69, Cl. 239-317.
Armor Elevator Co., Inc.: *See—*
Walter, George, 3,481,432.
Armorlite Lens Company Inc.: *See—*
Lanman, Robert K., 3,427,751.
Armour Agricultural Chemical Company, mense: *See—*
McFarlin, Richard F.; and Satterwhite, William A., 3,423,173.
Armour, Albert G.; and Hoegger, Erhard F., to Du Pont de Nemours, E. I., and Company. Propiolactone-pivalolactone copolyesters. 3,424,835, 1-28-69, Cl. 264-210.
Armour and Company: *See—*
Aikins, Glenn A., 3,449,315.
Aulik, Robert F.; and Cassie, Norman M., 3,484,336.
Benner, Lloyd Robert, Sr., 3,477,597.
Brauns, Kenneth V., 3,468,356.
Casely, Robert W.; and Noel, Darwin R., 3,445,397.
Colburn, Jay T., 3,477,857.
Endres, Joseph G.; Wrobel, Raymond J.; and Rendek, Robert B., 3,469,996.
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M., 3,424,788.
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M., 3,432,547.
Hull, Maurice E.; and Kline, Ralph Willard, 3,477,853.
Jungermann, Eric; and Guttmann, Andrew T., 3,485,760.
Jungermann, Erick; and Taber, David, 3,445,398.
Miller, Eugene J., Jr.; Mais, Ago; and Say, Domingo, 3,481,977.
Nelson, Richard P., 3,429,713.
Phillips, Duane E.; Schultz, Roger C.; and Beck, Herbert H., 3,461,984.
Schnabel, Herbert W., 3,431,689.
Sebba, Felix; Jonaitis, Charles W.; Ray, Charles L.; and Baarson, Robert E., 3,476,553.
Smithers, James P.; and Hafstad, Millard J., 3,465,491.
Armour, Donald F., to Monsanto Company. Shaker. 3,447,725, 6-3-69, Cl. 222-486.
Armour Industrial Chemical Company: *See—*
Abramitis, Walter W., 3,460,936.
Baarson, Robert E.; Du Brow, Paul L.; and Ray, Charles L., 3,425,550.
Baarson, Robert E.; and Du Brow, Paul L., 3,425,551.
Baarson, Robert E.; and Ray, Charles L., 3,426,896.
Betty, Roy J.; Marsh, Byron E.; and Marsh, Frederick S., 3,437,466.
Betty, Roy J.; Malec, Robert E.; and Tippett, Charles E., 3,457,185.
Castro, Anthony J.; and Kinney, Layton F., 3,487,050.
Chandler, Scott S.; and Ray, Charles L., 3,468,667.
Malec, Robert E.; and Betty, Roy J., Jr., 3,432,527.
Malec, Robert E., 3,476,091.
Metcalfe, Lincoln Douglas; and Pelka, John Richard, 3,473,919.
Miller, Eugene J., Jr.; and Mais, Ago, 3,424,794.
Miller, Eugene J., Jr.; and Tiefenthal, Harlan E., 3,444,200.
Miller, Eugene J., Jr.; and Mais, Ago, 3,457,312.
Miller, Eugene J., Jr.; and Tiefenthal, Harlan E., 3,467,708.
Miller, Eugene J., Jr.; and Mais, Ago, 3,480,674.
Pelka, John R.; and Metcalfe, Lincoln Douglas, 3,449,246.
Shapiro, Sydney H., 3,452,028.
Tiefenthal, Harlan E.; Miller, Eugene J., Jr.; and Mais, Ago, 3,457,311.
Armour Pharmaceutical Company: *See—*
Edgworth, Raymond John, 3,481,690.
Enkoji, Takashi; and Levine, Edward M., 3,478,026.
Gower, Francis B., III, 3,483,554.
Jones, John L.; and Rubino, Andrew M., 3,420,932.
Jones, John L.; and Rubino, Andrew M., 3,472,929.
Jones, John L., 3,476,509.
Kaiser, Emil; and Fisher, Joseph D., 3,461,212.
Reynolds, Harold C.; and Olsen, Donald B., 3,477,954.
Armour, Walter B., to National Starch and Chemical Corporation. Novel neoprene latex adhesive compositions. 3,425,978, 2-4-69, Cl. 260-29.3
Armour, Walter B., to National Starch and Chemical Corporation. Water resistant polyvinyl acetate adhesive compositions. 3,433,701, 3-18-69, Cl. 161-198.
Armour, Walter B., to National Starch and Chemical Corporation. Water resistant polyvinyl acetate adhesive compositions. 3,444,037, 5-13-69, Cl. 161-198.
Arms, John T.: *See—*
Duddy, Joseph C.; Arms, John T.; and Kelley, John J.,3,479,223.
Arms, John T., to ESB Incorporated, mesne. Barrier-type metallic sulfide containing separator for an alkaline cell. 3,458,362, 7-29-69, Cl. 136-146.
Armstead, George B., Jr., to Merrow Machine Company, The. Looper carrier for sewing machine. 3,450,078, 6-17-69, Cl. 112-162.
Armstrong, Anna M.: *See—*
Vizsolyi, Andrew I.; Armstrong, Anna M.; and Forward, Frank A.,3,459,535.
Armstrong Cork Company: *See—*
Bezman, Irving I., 3,468,981.
Bolgiano, Nicholas C., 3,441,424.
Bramlett, William P., Jr., 3,467,618.
Cistone, David R., 3,471,051.
Culp, Charles R., 3,468,755.
Deichert, James W.; and Evans, Richard J., 3,464,178.
Eckert, Lewis W., 3,476,318.

Ehrhart, Wendell A., 3,431,279.
Ehrhart, Wendell A.; and Rohrer, Clarence E., 3,457,236.
Evans, Richard J., 3,472,725.
Everett, James F. B., 3,446,380.
Everson, William R., 3,459,399.
Green, Clarence C.; and Denlinger, John Lester, 3,483,963.
Griffen, Charles W., 3,461,754.
Hager, Nathaniel E., Jr., 3,420,982.
Hager, Nathaniel E., Jr., 3,427,209.
Haines, Charles, Jr.; and Rothrock, Roy R., 3,438,853.
Hemphill, John M., 3,473,941.
Herweh, John E.; and Poshkus, Algirdas C., 3,423,485.
Hisey, Richard M.; and Kyle, Joseph H., 3,471,682.
Horst, Robert L., 3,427,627.
Horst, Robert L., 3,470,561.
Hutchinson, Robert H., 3,457,202.
Lickok, Daniel J.; and Maxwell, George C., 3,480,422.
Ollinger, James C., 3,470,062.
Roy, Gerald L., 3,448,882.
Scowalter, Merle J., 3,455,779.
Smalley, Janet H., 3,428,676.
Wood, Harry N., 3,481,467.

Armstrong, Douglas B., to Bell Telephone Laboratories, Incorporated. Asynchronous sequential switching circuit using no delay elements. 3,484,700, 12-16-69, Cl. 328-92.

Armstrong, Edward T. Hypothermia apparatus and method for treating the human body and the like. 3,460,538, 8-12-69, Cl. 128-303.1

Armstrong, Eldon L.; and Davis, Robert H., to Mobil Oil Corporation. Alkyl aromatic hydrocarbon emulsion lubricant for metal rolling. 3,432,434, 3-11-69, Cl. 252-49.5

Armstrong, Elton C., to Fix-A-Roll Co. Rolling machine roller finishing apparatus. 3,468,075, 9-23-69, Cl. 51-254.

Armstrong, Frederick J.; and Susdorf, Robert A., to General Electric Company. Fluid cooled electric motor having a speed indicating arrangement. 3,465,184, 9-2-69, Cl. 310-66.

Armstrong, Fredrick J.: *See—*
Susdorf, Robert A.; and Armstrong, Fredrick J.,3,465,186.

Armstrong, Fullerton George Gordon. Rotary internal combustion engines. 3,451,381, 6-24-69, Cl. 123-16.

Armstrong, George W.; and Neff, Robert J. Reed switch arrangement for DC magnetic circuit. 3,486,139, 12-23-69, Cl. 335-151.

Armstrong, Henry P., to Truth Tool Company. Closure operator. 3,422,575, 1-21-69, Cl. 49-356.

Armstrong, Henry P., to Truth Tool Company. Corner pull-in operator. 3,457,675, 7-29-69, Cl. 49-356.

Armstrong, Henry P., to Truth Tool Company. Manual operator for awning sash windows. 3,461,609, 8-19-69, Cl. 49-324.

Armstrong, Jack W.; Moore, David L.; and Schmidt, Frederick C., to Lipe-Rollway Corporation. Clutch with cable operator. 3,468,404, 9-23-69, Cl. 192-99.

Armstrong, Jesse D., Jr.: *See—*
Pope, Grady E.; and Armstrong, Jesse D., Jr.,3,442,166.

Armstrong, Joe Ware. Window frame mitering apparatus. 3,448,976, 6-10-69, Cl. 269-37.

Armstrong, John A., to International Business Machines Corporation. Ultrafast optical coincidence detector which utilizes the (1, -1, 0) surface or its crystallo- graphic equivalent in crystals of the 42m or 43m class for mixing two orthogonally polarized pulses. 3,445,668, 5-20-69, Cl. 250-217.

Armstrong, John A.; and Brasau, Norman, to International Business Machines Corporation. Optical sampling scope-stroboscope using a pulsed laser. 3,445,167, 5-20-69, Cl. 356-23.

Armstrong, John J., Jr.: *See—*
Ryan, Daniel J.; and Armstrong, John J., Jr.,3,461,198.

Armstrong, John, to Grady, J. J., Co., Inc. Blast furnace teardown apparatus. 3,436,120, 4-1-69, Cl. 299-70.

Armstrong, Kirk R.; Mikolyczyk, Edward C.; and Nelson, Carl S., to Capitol Records, Inc. Recording tape cartridge run-in apparatus. 3,463,408, 8-26-69, Cl. 242-55.19

Armstrong, Mearle C. Sure-hold-nonslip rope fastener. 3,465,391, 9-9-69, Cl. 24-115.

Armstrong, Richard L.: *See—*
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L.,3,420,561.
Russell, Fred J.; Armstrong, Richard L.; and Spinuzzi, Sam J.,3,434,752.
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W.,3,459,448.
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L.,3,467,429.
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W.,3,469,876.

Armstrong, Robert G.: *See—*
Pfaffman, George D.; and Armstrong, Robert G.,3,446,495.

Armstrong, Robert Hunter Thynne: *See—*
Beazley, Rodney Thomas; and Armstrong, Robert Hunter Thynne,3,452,415.

Armstrong, Robert K.; and von Trebra, Richard L., Jr., to Du Pont de Nemours, E. I., and Company. Hydrogenation catalyst. 3,457,187, 7-22-69, Cl. 252-430.

Armstrong, Robert. Apparatus and method for sealing deep wells. 3,428,124, 2-18-69, Cl. 166-187.

Armstrong Whitworth, Sir W. G., & Company (Engineers) Limited: *See—*
Tryhorn, Donald Wilfred, 3,426,736.

Armstrong-Blum Manufacturing Company: *See—*
Komendowski, Henry; and Blum, Frederick J., Jr., 3,460,420.
Komendowski, Henry; and Whitfield, James E., Jr., 3,465,628.
Komendowski, Henry, 3,485,123.

Army, Thomas J.; and Ohlrogge, Alvin J., said Army, Thomas J., assor to International Minerals & Chemical Corporation, and said Uhlrogge, Alvin J., assor to Purdue Research Foundation. Method of increasing seed yield by the application of a mixture of triiodobenzoic acid and fertilizer. 3,459,532, 8-5-69, Cl. 71-98.

Arnao, Albert, Jr. Safety cover for an electrical outlet receptacle. 3,428,936, 2-18-69, Cl. 339-39.

Arnao, Joseph F.; Fitz Gerald, Robert E.; and Garcia, Armando J., to United-Carr Incorporated, mesne. Blade terminal lamp socket. 3,460,088, 8-5-69, Cl. 339-184.

Arnaud, Jacques A., to Bell Telephone Laboratories, Incorporated. Lasers and optical resonators with beam twisting. 3,460,046, 8-5-69, Cl. 330-4.3

Arnaud, Jacques, to CSF-COMPAGNIE Generale de Telegraphie Sans Fil. Crossed-field microwave devices with gun shielding means. 3,441,782, 4-29-69, Cl. 315-3.5

Arnaud, Jacques; Sobotka, Walter; and Desbrueres, Maurice, to CSF-Compagnie generale de Telegraphie Sans Fil. Wave delay structures. 3,432,776, 3-11-69, Cl. 333-31.

Arnaudin, Edwin H., Jr.; and Wade, Robert M., to Anaconda Wire and Cable Company. Strand shielded cable and method of making. 3,479,446, 11-18-69, Cl. 174-120.

Arnaudin, Edwin H., Jr.: *See—*
Plate, Walter J.; and Arnaudin, Edwin H., Jr.,3,474,189.

Arnaudon, Michel; and Richard, Jean, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Machine for forming and presenting cartons for continuous feeding to a boxing machine. 3,451,318, 6-24-69, Cl. 93-53.

Arndt, Friedrich: *See—*
Freund, Heinz-Eberhard; and Arndt, Friedrich,3,431,289.
Schulz, Heinz; Arndt, Friedrich; Hoyer, Georg-Alexander; and Rusch, Reinhart,3,454,591.

Arndt, Heinz-Herbert; and Schadel, Jurgen, to Siemens Aktiengesellschaft. Method and apparatus for thermally bonding semiconductor components to carriers. 3,439,855, 4-22-69, Cl. 228-44.

Arndt, Horst: *See—*
Steinhausen, Walter; Jager, Albert; Boroschewski, Gerhard; Peissker, Horst; and Arndt, Horst,3,484,526.

Arndt, Richard H., to General Electric Company. Fault current recorder and indicator for electrical circuits. 3,443,158, 5-6-69, Cl. 317-18.

Arndt, Richard H.; and Craig, Allen G., to General Electric Company. Termination. 3,466,593, 9-9-69, Cl. 339-45.

Arndt, Richard H.; and Kotski, Edward J., to General Electric Company. Combination voltage and magnetic loop. 3,471,784, 10-7-69, Cl. 324-126.

Arndt, Wolfgang, to International Standard Electric Corporation. Controls for a glass crosspoint arrangement. 3,483,516, 12-9-69, Cl. 340-166.

Arnegger, Wilhelm: *See—*
Winter, August; Mann, Egon; Pfeiffer, Willi; and Arnegger, Wilhelm,3,433,087.

Arneklev, Duane R.: *See—*
Brokke, Mervin E.; Lukes, George E.; and Arneklev, Duane R.,3,435,043.
Brokke, Mervin E.; Lukes, George E.; and Arneklev, Duane R.,3,449,374.
Gutman, Arnold D.; Lukes, George E.; and Arneklev, Duane R.,3,467,714.

Arneklov, Duane R.: *See—*
Brokke, Mervin E.; Lukes, George E.; and Arneklov, Duane R.,3,455,674.

Arnell, Jon Arne; and Jansson, Bernt Inge, to AGA Aktiebolag. Carrying device. 3,442,427, 5-6-69, Cl. 224-25.

Arnell, Jon Arne; and Johannisson, Dag Olof Alfred, to AGA Aktiebolag. Breathing apparatus for supplying a pair of gases in adjustable proportion. 3,429,326, 2-25-69, Cl. 137-98.

Arnell, Jon Arne: *See—*
Jansson, Bernt Inge; and Arnell, Jon Arne,3,483,865.

Arnelo, Anders Ingvar, to Essem Metotest AB. Inductive bridge circuit for flaw sensing in which all coils of the bridge are positioned adjacent the test piece. 3,437,918, 4-8-69, Cl. 324-37.

Arnelo, Anders Ingvar; and Leuchovius, Kurt Nils Sture, to Essem Metotest A.B. Magnetic testing apparatus for helical welds which follows the weld with a reciprocating movement. 3,466,536, 9-9-69, Cl. 324-37.

Arnes, Lyle L., to Walker Manufacturing Company. Transmission saddle for lift. 3,420,481, 1-7-69, Cl. 248-25.

Arnes, Lyle L., to Walker Manufacturing Company. Valve. 3,441,248, 4-29-69, Cl. 251-277.

Arnes, Lyle L., to Walker Manufacturing Company. Restrictor for hydraulic pump. 3,448,658, 6-10-69, Cl. 91-49.
Arnes, Lyle L. Window counter-balancing construction. 3,475,865, 11-4-69, Cl. 49-445.
Arneson, Edwin L., to Federal Paper Board Company, Inc. Article carrier. 3,443,723, 5-13-69, Cl. 220-113.
Arneson, Harold E. G.; and Arneson, Theodore J. Fluid self-governing apparatus. 3,475,106, 10-28-69, Cl. 415-14.
Arneson, Harold E.G. Externally pressurized bearing structure. 3,472,565, 10-14-69, Cl. 308-9.
Arneson, Theodore J.: *See—*
Arneson, Harold E. G.; and Arneson, Theodore J.,3,475,106.
Arneth, Reinhold; and Tomanek, Martha, to Kalle Aktiengesellschaft. Electrophotographic color printing. 3,458,310, 7-29-69, Cl. 96-1.2
Arnett, Ernest Barnard. Tubular calendar. 3,462,868, 8-26-69, Cl. 40-114.
Arnett, Henry D., to United States of America, Navy. Cyclotron wave upconverter. 3,474,283, 10-21-69, Cl. 315-3.
Arnett, Robert W. Soffit molding. 3,486,283, 12-30-69, Cl. 52-255.
Arnholdt, Eric. Airfoil. 3,441,236, 4-29-69, Cl. 244-42.
Arno, Gatti: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,423,179.
Arnold & Richter KG.: *See—*
Blaschek, Otto, 3,480,351.
Arnold, Alanson J.; McKeough, Elmer L.; Ripple, William M.; Schoeffler, Paul W.; and Smith, Herbert J., to American Standard, Inc. Ceramic fixture casting apparatus with molds form- ing separate sections of said fixture and means mating said sections. 3,448,497, 6-10-69, Cl. 25-29.
Arnold, Alson J.; Van Dyke, Burton; Van Dyke, Don; and Porter, David D., to American Standard, Inc. Apparatus for casting ceramic articles including separate closed loop conveyors for molds and cores. 3,448,496, 6-10-69, Cl. 25-2.
Arnold, Amy J.: *See—*
Bregenzer, Robert N.; and Arnold, Amy J.,3,486,507.
Arnold, Benjamin Harry; and Haddow, Norman, to Glaxo Laboratories Limited. Hydrolysis of the acetoxymethyl group at the 3- position of the cephalosporin nucleus. 3,436,310, 4-1-69, Cl. 195-36.
Arnold, Charles E., to Sylvania Electric Products Inc. Transponder having improved isolation. 3,432,852, 3-11-69, Cl. 343-6.5
Arnold, Cornelius S.: *See—*
Koudelka, Robert E.; Arnold, Cornelius S.; and Kelley, Dewitt T.,3,427,151.
Arnold, Dean: *See—*
Mattingly, Don R., 3,454,266.
Arnold, Delevan J.; and Whitney, Thomas H., to Vesely Company. Combination door and step for vehicle bodies. 3,468,580, 9-23-69, Cl. 296-146.
Arnold, Delevan R., to Arnold Tackle Corporation, The. Valve assembly for L.P. gas tanks. 3,456,687, 7-22-69, Cl. 137-604.
Arnold, Donald R.; and Sousa, Anthony A., to Union Carbide Corporation. 3-Oxa-tricyclo[4.2.1.$0^{2,5}$]nonanes. 3,478,043, 11-11-69, Cl. 260-297.
Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E., to Union Carbide Corporation. Photosensitized cycloadding process. 3,483,102, 12-9-69, Cl. 204-158.
Arnold, Douglas: *See—*
Ott, Norman C.; and Arnold, Douglas,3,485,141.
Arnold, Eugene W.: *See—*
McLauchlan, Thomas A.; and Arnold, Eugene W.,3,465,794.
Arnold, Franz. Clamping device having an operating screw portion. 3,484,094, 12-16-69, Cl. 269-24.
Arnold, Fredric E., Jr., to Hydrometals, Inc. Antenna selector. 3,476,074, 11-4-69, Cl. 116-114.
Arnold, George J., to Fairchild Camera and Instrument Corporation. Haze-filter assembly for panoramic cameras. 3,483,808, 12-16-69, Cl. 95-12.5
Arnold, Harmon W.; and Bell, George E., to Flex-O-Lators, Inc. Edge protector. 3,451,169, 6-24-69, Cl. 49-462.
Arnold, Harmon W.; and Tieman, Lloyd E., to Flex-O-Lators, Inc. Upholstered seat construction. 3,462,196, 8-19-69, Cl. 297-455.
Arnold, Harold D., to Emerson Electric Co. Slab side motor with an asymmetrical starting winding. 3,433,988, 3-18-69, Cl. 310-166.
Arnold, Harold D., to Emerson Electric Co. Electric motor with removable end shields and method of making it. 3,437,853, 4-8-69, Cl. 310-42.
Arnold, Harold E., to Du Pont de Nemours, E. I., and Company. Process for uniform application of finish to polyester yarns. 3,457,340, 7-22-69, Cl. 264-168.
Arnold, Heinz B.; and Floyd, Don E., to General Mills, Inc. Sulfhydryl resins. 3,423,480, 1-21-69, Cl. 260-18.
Arnold, Henry S.; and Green, Joe W. Drying and heating oven. 3,473,792, 10-21-69, Cl. 263-6.
Arnold, Jack Harold, Jr.: *See—*
Pollard, Frank Bowles; and Arnold, Jack Harold, Jr.,3,468,276.
Arnold, John E., to Detroit Switch Corporation. Electrical connector. 3,486,164, 12-23-69, Cl. 339-150.
Arnold, John H. Portable boresight board. 3,451,138, 6-24-69, Cl. 33-74.
Arnold, Kurt Herbert, to Valcor Engineering Corporation. Low friction shear seal valve. 3,482,816, 12-9-69, Cl. 251-329.
Arnold, Lionel C., to Tee-Pak, Inc. Apparatus for shirring synthetic sausage casings. 3,454,982, 7-15-69, Cl. 17-42.
Arnold, Lionel C., to Tee-Pak, Inc. Process for shirring sausage casings. 3,461,484, 8-19-69, Cl. 17-49.
Arnold, Loren Glenn; Sullivan, James Franklin; and Esbeck, Howard Christian, to Deere & Company. Plow. 3,481,407, 12-2-69, Cl. 172-285.
Arnold, Marcia Lee. Walker and cast reinforcement. 3,481,332, 12-2-69, Cl. 128-83.5
Arnold, Martin G., to Leesona Corporation. Voltage regulator actuated by periodic pulses. 3,474,324, 10-21-69, Cl. 323-15.
Arnold, Melvin R., to Chemetron Corporation. Dehydrogenation catalyst. 3,448,058, 6-3-69, Cl. 252-443.
Arnold, Orlan M.; Hanson, Victor W.; Jamison, Robert M.; Panzica, Nicholas J.; and Umbricht, Emil, to Ajem Laboratories, Inc. Method and apparatus for cleaning contaminated gases. 3,475,881, 11-4-69, Cl. 55-94.
Arnold, Orlan M.: *See—*
Newman, Marvin K.; and Arnold, Orlan M.,3,439,810.
Arnold, Peter Bruce: *See—*
Tickle, John Leslie, 3,435,600.
Arnold, Philip M., to Phillips Petroleum Company. Blending solid olefin polymers with rubber. 3,452,120, 6-24-69, Cl. 260-889.
Arnold, Ray E., to Brawley Steel Co. Apparatus for bending an elongated element. 3,430,478, 3-4-69, Cl. 72-298.
Arnold, Roger F., to Grace, W. R., & Co. White tacky spray booth coating. 3,476,575, 11-4-69, Cl. 106-2.
Arnold Tackle Corporation, The: *See—*
Arnold, Delevan R., 3,456,687.
Arnold, Vernon W.; and Lee, Robert J., to Standard Oil Company (Indiana). Hot melt adhesives containing dimethyl alpha- methyl styrene/alpha-methyl styrene/styrene terpolymers. 3,429,843, 2-25-69, Cl. 260-28.5
Arnold, Walter; and Ostertag, Karl, to Vereinigte Glanzstoff-Fabriken AG. Apparatus and processes for the preparation of an endless thread cable for precision cutting. 3,423,497, 1-21-69, Cl. 264-140.
Arnold, William O., to Phillips Petroleum Company. Hydrogenation. 3,427,361, 2-11-69, Cl. 260-667.
Arnold, Winfried; and Morel, Charles J., said Morel assor. to Geigy Chemical Corporation. Substituted phenoxyacetic acid diethylamides as anesthetics. 3,484,527, 12-16-69, Cl. 424-311.
Arnoldi, Walter E.; Birbara, Philip J.; and Russell, Sid, to United Aircraft Corporation. Electrolytic method of producing highly oriented crystalline structures. 3,440,153, 4-22-69, Cl. 204-60.
Arnon, Ruth: *See—*
Sela, Michael; Arnon, Ruth; and Lahav, Miriam,3,466,368.
Arnosky, Edward J.; and Arnosky, Robert C. Absorbent cup insert. 3,448,912, 6-10-69, Cl. 229-1.5
Arnosky, Robert C.: *See—*
Arnosky, Edward J.; and Arnosky, Robert C.,3,448,912.
Arnot, Alfred Erwin Reginald. Tools. 3,453,673, 7-8-69, Cl. 10-89.
Arnott, Edward A.: *See—*
Jantze, Clyde E.; Arnott, Edward A.; and Scott, Earl V.,3,465,703.
Arnow, Lewis. Electric toy vehicle and track therefor. 3,431,674, 3-11-69, Cl. 46-244.
Arnow, Lewis. Multielement electric toy. 3,460,287, 8-12-69, Cl. 46-244.
Arnow, Lewis. Electrically operable toy vehicle and electrified surface. 3,465,475, 9-9-69, Cl. 46-241.
Arnrup, Borje Sixten: *See—*
Olofsson, Erik Herbert; and Arnrup, Borje Sixten,3,475,593.
Arnt-Jensen, Tor. Base plates for securing sheets of paper. 3,465,462, 9-9-69, Cl. 40-156.
Arntsen, Arnt P., to Westinghouse Electric Corporation. Dual mode tuning circuits. 3,440,578, 4-22-69, Cl. 334-45.
Arntsen, Arnt P.; and Boomgaard, Dirk J., to Westinghouse Electric Corporation. Double tuned frequency selective circuit providing a constant bandwidth. 3,450,994, 6-17-69, Cl. 325-383.
Arntz, Robert L., to Dominion Electric Corporation. Electric food cooking device. 3,472,153, 10-14-69, Cl. 99-329.
Arny, Edgar L., to Chemical and Aerospace Products, Inc. Circuit board. 3,469,018, 9-23-69, Cl. 174-68.5
Aro Corporation, The: *See—*
Brandenberg, Karl A., 3,466,004.
German, Dale F., 3,423,063.
Hitt, Otis D.; and Short, R Stanford, 3,476,147.
Kautz, Wilbert G.; and Florence, Donald M., 3,465,774.
Kiester, George S.; and Short, R Stanford, 3,465,646.
Kiester, George S.; and Short, R Stanford, 3,477,521.
Snyder, Stanley F., 3,460,172.
Troike, Paul E., 3,451,490.
Aro, Enn, to New North Electric Company, mesne. Non-blocking switching system with reduced number of contacts. 3,458,658, 7-29-69, Cl. 179-15.

Aro, Erkki Johannes. Arrangement for the conveyance of timber to several successive points of consumption. 3,426,886, 2-11-69, Cl. 198-92.

Aro of Buffalo, Incorporated: *See—*
Carter, William J., Jr., 3,473,337.
Harwood, Van Ness, Jr., 3,450,127.
Phlipot, James R.; Gill, Lawrence H.; and Clifford, Earl W., 3,480,026.

Aron, Erwin, to Technical Processing, Inc. Rubber dispersing agents comprising fatty acid salts, alcohol and hydrocarbon. 3,434,991, 3-25-69, Cl. 260-23.7

Aron, Erwin, to Technical Processing, Inc. Rubber release agents comprising fatty acid salts, polyethylene glycol ether and hydrocarbon. 3,437,621, 4-8-69, Cl. 260-23.7

Aron, Jerome: *See—*
Rivin, Donald; and Aron, Jerome,3,479,299.
Rivin, Donald; and Aron, Jerome,3,479,300.
Rivin, Donald; Aron, Jerome; and Richards, Leighton B.,3,442,679.

Aron, Peter A. Automatic manipulator and positioning system. 3,422,967, 1-21-69, Cl. 214-1.

Aronberg, Lester, to Lake Chemical Co. Composition and process for forming patina. 3,434,890, 3-25-69, Cl. 148-6.14

Arones, Daniel A., to Advance Machine Company. Device for generating foam for a carpet and floor scrubbing machine. 3,430,280, 3-4-69, Cl. 15-50.

Aronoff, Edward I. Stabilizing knitted tubular fabrics. 3,484,949, 12-23-69, Cl. 34-155.

Aronoff, Ethan, to Hughes Aircraft Company. System for simulating radar terrain returns with coherency compensation. 3,427,618, 2-11-69, Cl. 343-17.7

Aronov, Anatoly Lzrailevich: *See—*
Livshits, Abram Lazarevich; Aronov, Anatoly Lzrailevich; Kravets, Arkady Timofeevich; and Sosenko, Alexandr Borisovich,3,467,807.

Arons, Howard L.: *See—*
Wygant, James C.; Arons, Howard L.; and Prill, Erhard J.,3,481,973.

Aronsohn, Allan; and Inovius, Allan. Exhaust gas burners. 3,460,916, 8-12-69, Cl. 23-288.

Aronson, David, to Worthington Corporation. Absorption refrigeration system with booster cooling. 3,440,832, 4-29-69, Cl. 62-101.

Aronson, David, to Harrworth, Inc. Multiple stage direct fired absorption refrigeration system. 3,452,551, 7-1-69, Cl. 62-148.

Aronson, David, to Worthington Corporation. Absorption refrigeration system. 3,478,530, 11-18-69, Cl. 62-112.

Aronson, Moses, to United States of America, Navy. Assault boat coxswain trainer. 3,486,242, 12-30-69, Cl. 35-11.

Aronson, Theodore F. Apparatus for handling material alternatively from two separate sources. 3,471,061, 10-7-69, Cl. 222-141.

Aronsson, Arent; and Tornqvist, Erik, to Aktiebolaget Svenska Flaktfabriken. Method and apparatus for moisturizing web material. 3,467,541, 9-16-69, Cl. 117-93.4

Aronsson, Bo: *See—*
Steinholtz, Gosta; and Aronsson, Bo,3,438,588.

Aronstein, Jesse, to International Business Machines Corporation. Component mounted in a printed circuit. 3,480,836, 11-25-69, Cl. 317-100.

Aronstein, Jesse; and Caccoma, George A., to International Business Machines Corporation. Orienting and contacting device. 3,427,517, 2-11-69, Cl. 317-262.

Aronstein, Jesse; Mozer, Donald T.; and Poloncic, Stanley J., to International Business Machines Corporation. Vibratory feeding and orienting apparatus. 3,426,883, 2-11-69, Cl. 198-33.

ARP, Inc.: *See—*
Baudrand, Donald W.; and Mallory, Glenn O., Jr., 3,438,798.

Arp, Leon J. Apparatus for counting revolutions of predetermined time range. 3,467,821, 9-16-69, Cl. 235-92.

Arp, Vincent D., to United States of America, Army. Superconductor switch. 3,486,079, 12-23-69, Cl. 317-123.

Arpas, Ferenc; and Thorsson, Clas Ove, to Aktiebolaget Gotaverken. Device for gauging the effect of the cargo distribution on a vessel. 3,441,721, 4-29-69, Cl. 235-150.2

Arpe, Hans J., to Shell Oil Company. Vinyl esters from acetylene and carboxylic acids. 3,455,998, 7-15-69, Cl. 260-498.

Arquilla, Andrew A. Bulkhead construction for concrete structures having continuous reinforcements. 3,454,255, 7-8-69, Cl. 249-33.

Arrance, Frank C. and: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,948.
Berger, Carl; and Arrance, Frank C.,3,462,314.
Berger, Carl; and Arrance, Frank C.,3,471,330.
Berger, Carl; and Arrance, Frank C.,3,476,601.

Arrance, Frank C.; and Berger, Carl, to McDonnell Douglas Corporation. Preparation of hydrous metal oxide membranes and acid salts thereof. 3,437,580, 4-8-69, Cl. 204-295.

Arrance, Frank C.; and Berger, Carl, to McDonnell Douglas Corporation, mesne. Inorganic battery separator and battery. 3,446,668, 5-27-69, Cl. 136-6.

Arrance, Frank C.; and Berger, Carl, to McDonnell Douglas Corporation, mesne. Sintered metal oxide battery separator and battery. 3,446,669, 5-27-69, Cl. 136-6.

Arregui Fernandez, Vicente: *See—*
Sitges Menendez, Francisco Javier; and Arregui Fernandez, Vicente,3,434,798.

Arrhenius, Gustaf, to Dielectric Systems, Inc. Monolithic ceramic electrical interconnecting structure. 3,423,517, 1-21-69, Cl. 174-68.5

Arrighetti, Sergio: *See—*
Marconi, Walter; Cesca, Sebastiano; and Arrighetti, Sergio,3,467,639.

Arrighini, Artil, to Rocform Corporation. Prefabricated wall form. 3,481,575, 12-2-69, Cl. 249-45.

Arrow Group Industries: *See—*
Vetere, Nicholas A., 3,472,393.

Arrow Louver and Damper Corporation: *See—*
Kahn, Elliot; and Bobrowich, Alex, 3,484,990.

Arrow-Hart & Hegeman Electric Company, The: *See—*
Opalenik, John J.; and Corey, Lawrence G., 3,484,632.

Arrow-Hart & Hegemen Electric Company, The: *See—*
Corey, Lawrence G., 3,470,458.

Arrowood, Joseph L.; Groppe, Wayne A.; and Lee, William W., Jr., to United States of America, Atomic Energy Commission. Trace scanning. 3,453,050, 7-1-69, Cl. 356-167.

Arsenault, James H., to Curtis & Marble Machine Co. Roll stop for a roll deck. 3,432,076, 3-11-69, Cl. 221-295.

Arsenault, James H.: *See—*
Kamborian, Jacob S.; Vornberger, Walter A.; and Arsenault, James H.,3,470,849.

Arseneau, Roger E., to Arkorp. Dynamic division analog computer for load analysis. 3,486,017, 12-23-69, Cl. 235-193.

Arside Limited: *See—*
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor, 3,480,359.

Arslanian, Vincent; and Weber, William J., to Phillips Petroleum Company. Container closure. 3,464,575, 9-2-69, Cl. 215-41.

Art, Alfred C.: *See—*
Anderson, Richard N.; and Art, Alfred C.,3,444,648.

Art Metal-Knoll Corporation: *See—*
Cafiero, Vincent J.; and Sohl, William I., 3,465,896.
Stephens, William I., 3,450,435.

Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich. Means for catching a broken yarn and piecing it to the sliver, particularly for use with spinning frames and spinning and twisting frames. 3,466,862, 9-16-69, Cl. 57-34.

Artandi, Charles: *See—*
Bechtol, Lavon Dee; and Artandi, Charles,3,451,394.

Artaud, Maurice H.: *See—*
Akiyama, Hideo; and Artaud, Maurice H.,3,442,254.

Artelli, Mario. Tongue cleaner. 3,477,435, 11-11-69, Cl. 128-304.

Artemiev, Vladimir Dmitrievich: *See—*
Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Volokhonsky, Lev Avramovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Scherbakov, Konstantin Alexandrovich; and Katsevich, Leonid Savich,3,483,917.

Arter, Nelson K.; and Martin, Van C., to International Business Machines Corporation. Flyback in double-yoke-drive cathode ray tubes. 3,480,827, 11-25-69, Cl. 315-27.

Arter, Robert L. Apparatus for making a frozen, aerated, soft confection. 3,472,492, 10-14-69, Cl. 259-10.

Arthen, Frank Joseph, Jr.: *See—*
Susi, Peter Vincent; and Arthen, Frank Joseph, Jr.,3,445,440.

Arthur, Bruce Donald: *See—*
Braikevitch, Michael; and Arthur, Bruce Donald,3,422,275.

Arthur, Edwin P., to Beckman Instruments, Inc. Electrochemical transducer. 3,479,255, 11-18-69, Cl. 204-1.

Arthur, Edwin P., to Beckman Instruments, Inc. Ion sensitive lanthanum-cerium containing glass electrode. 3,480,536, 11-25-69, Cl. 204-195.

Arthur, Elmer W.: *See—*
Ellis, Wally; and Arthur, Elmer W.,3,428,274.

Arthur, George T., to Royal Typewriter Company, Inc. Typewriter platen tester. 3,435,658, 4-1-69, Cl. 73-12.

Arthur, Hugh MacDonald: *See—*
Angus, Ernest Thomas; Arthur, Hugh MacDonald; Montgomery, John Young Condie; Walker, Donald Ferguson; and Good, Richard Samuel Jonathan,3,457,480.

Arthur, James C.; and Thieman, Graham F., to Arvin Industries, Inc. Method of fabricating pipes. 3,434,199, 3-25-69, Cl. 29-476.

Arthur, Jett C., Jr.; and Mares, Trinidad, to United States of America, Agriculture. Preparation of a weather resistant cotton product by a molecular protection process. 3,443,879, 5-13-69, Cl. 8-120.

Arthur, John R., Jr.; Morton, Jack A.; Pfann, William G.; and Wagner, Richard S., to Bell Telephone Laboratories, Incorporated. Cold cathode emitter having a mosaic of closely spaced needles. 3,466,485, 9-9-69, Cl. 313-95.
Arthur, John R.; Pool, James L.; and Graham, Richard K., to Lisle Corporation. Magnitude indicating means for accumulated metallic particles. 3,457,504, 7-22-69, Cl. 324-65.
Arthur, Ralph P.: *See—*
Johnson, Lee; Arthur, Ralph P.; and Schweiker, George C.,3,458,601.
Arthur, Richard J., to Sperry Rand Corporation. Gyrocompasses. 3,452,443, 7-1-69, Cl. 33-226.
Arthur, Ronald H., to Maxson Electronics Corporation. Overtravel mechanism for snap-action switch. 3,487,184, 12-30-69, Cl. 200-67.
Artiano, Adrian; and Lindberg, Verne L., to Black Clawson Company, The. Wood chipping knife. 3,421,561, 1-14-69, Cl. 144-241.
Artigas, Jesus Colell: *See—*
Ruthrof, Klaus; Schwarzer, Gerhard; Agell, Jose Domenech; Mir, Enrique Veiga; and Artigas, Jesus Colell,3,481,475.
Artisan Industries, Inc.: *See—*
Baird, James L., 3,449,216.
Monty, Leo J., 3,443,622.
Takata, Victor, 3,474,945.
Artistic Packaging, Inc.: *See—*
Cavoli, Joseph W., 3,428,227.
Artman, Noel G., to International Harvester Company. Track pin and bushing seal assembly. 3,425,754, 2-4-69, Cl. 305-11.
Artnell Company: *See—*
Edwards, Robert L.; and Gielow, George F., 3,449,011.
Gielow, George F.; and Edwards, Robert L., 3,462,194.
Gielow, George F.; and Edwards, Robert L., 3,472,239.
Gielow, George F.; and Edwards, Robert L., 3,472,241.
Paes, Dale R.; and Jeffers, F. Eugene, 3,441,315.
Paes, Dale R.; and Gielow, George F., 3,453,026.
Artos, Dr., Ing., Meier-Windhorst K.G.: *See—*
Meier-Windhorst, Christian August; Schraud, Alfred; and Vogeler, Helmut, 3,451,077.
Artos Engineering Company: *See—*
Gudmestad, Ragnar, 3,425,129.
Randar, Magnus; and Olsen, Jon H., 3,473,219.
Artz, Curtis P.: *See—*
Hargest, Thomas S.; Artz, Curtis P.; Thompson, Charles D.; and Blocker, Truman G., Jr.,3,428,973.
Artz, Klaus: *See—*
Rhyner, Paul; and Artz, Klaus,3,438,967.
Artz, Klaus, to Ciba Limited. Water-insoluble monoazo dyestuffs. 3,478,011, 11-11-69, Cl. 260-205.
Artzt, Maurice, to United States of America, Army. Detector for variable speed facsimile system. 3,465,096, 9-2-69, Cl. 178-6.
Artzt, Maurice; and Sowiak, Milton M., to Radio Corporation of America. Character generator. 3,444,319, 5-13-69, Cl. 178-30.
Artzt, William Walter, to Kapart, Inc. All-in-one infants garment and method of making the same. 3,435,461, 4-1-69, Cl. 2-83.
Artzt, William Walter. Foot covering portions of wearing apparel. 3,457,566, 7-29-69, Cl. 2-239.
Artzt, William Walter. Shirt with underarm shields and method of making same. 3,474,465, 10-28-69, Cl. 2-113.
Aruga, Tsuyoshi: *See—*
Yamada, Akira; and Aruga, Tsuyoshi,3,440,088.
Arulanandasami, Sinnappa Adaikalam: *See—*
Stephen, Arulanandasami Joseph; and Arulanandasami, Sinnappa Adaikalam,3,435,292.
Arulpragasam, Jeganandaraj A.; and Frye, Harold E., to International Business Machines Corporation. Variable floating. point precision. 3,434,114, 3-18-69, Cl. 340-172.5
Arutunoff, Armais, to Reda Pump Company. Cable attaching assembly. 3,424,485, 1-28-69, Cl. 287-116.
Arutunoff, Armais, to Reda Pump Company. Oil filled elongated submergible electric motor. 3,433,986, 3-18-69, Cl. 310-87.
Arutunoff, Armais, to Reda Pump Company. Wire-line suspended electric pump installation in well casing. 3,468,258, 9-23-69, Cl. 103-87.
Arvai, Tibor, to Sperry Rand Corporation. Inking mechanism for calculators and like machines. 3,478,858, 11-18-69, Cl. 197-151.
Arvanigian, George B.: *See—*
Radtke, Robert R.; and Arvanigian, George B.,3,486,681.
Arveson, Elmer J.: *See—*
Barry, Lewis Arthur; and Arveson, Elmer J.,3,425,819.
Arvey Corporation: *See—*
Cooper, George L., 3,420,432.
Hoffman, Kenneth Carl, 3,454,211.
Arvidson, Bengt A.; and Barber, Ralph F., to Corley-Miller, Inc. Package handling mechanism. 3,453,167, 7-1-69, Cl. 156-360.
Arvidson, Philip R.: *See—*
Rosenblatt, Herbert; Mariani, Thomas L.; and Arvidson, Philip R.,3,483,965.
Arvin Industries, Inc.: *See—*
Arthur, James C.; and Thieman, Graham F., 3,434,199.
Bledstein, Louis, 3,466,919.
Conley, Dwain D.; and Bender, Philip E., 3,430,587.
Kelley, Jerry O., 3,442,373.
Kelley, Jerry O., 3,468,497.
Murphy, Timothy C., 3,474,534.
Placek, Raymond L., 3,447,629.
Rose, Ronald E.; and Stambaugh, Donald W., 3,453,518.
Scheitlin, George E.; and Brighton, John C., 3,427,094.
Thieman, Graham F., 3,448,892.
Vautaw, Robert L.; and Wilcox, Richard C., 3,469,653.
Wolfner, William F., 3,482,839.
Arvin Systems, Inc.: *See—*
Schroeer, Rudi M.; Frank, Johann E.; and Tinsley, Ronald E., 3,457,770.
Yanko, Richard J.; Penrod, John K.; and Jensen, George W., 3,449,540.
Ary, Dalmas R. Fireproof envelope. 3,428,104, 2-18-69, Cl. 150-28.
Arya, Vishwa Prakash, to Ciba Limited. N-(3-Pyrazolyl-propyl)-N'-phenyl-piperazines. 3,470,184, 9-30-69, Cl. 260-268.
Arya, Vishwa Prakash, to Ciba Limited. N-(3-pyrazolyl-propyl)-N'-phenyl piperazines. 3,472,857, 10-14-69, Cl. 260-268.
Arya, Vishwa Prakash, to Ciba Limited. N-substituted-N'-aryl diazacycloalkanes. 3,478,032, 11-11-69, Cl. 260-268.
A/S Brdr. Michaelsen: *See—*
Michaelsen, Verner, 3,464,433.
A/S Den Norske Remfabrik: *See—*
Stokland, Sigmund, 3,481,344.
A.S. Kvaerner Brug: *See—*
Hover, Per E.; and Qvist, Svein-Ivar, 3,448,785.
A/S Lehmkuhl: *See—*
Gretteberg, Fredrik, 3,470,326.
A/S Lysosund Sildolje- & Kraftforfabrik: *See—*
Jakobsen, Johannes Andreas, 3,469,523.
A/S N. Foss Electric: *See—*
Aegidius, Poul E., 3,442,623.
A/S Norsk Aluminium Company: *See—*
Strom, Johan Nikolai; and Heggstad, Gudmund, 3,433,879.
A/S Ringdal Patenter: *See—*
Ringdal, Lars, 3,450,395.
A/S Saba: *See—*
Gravdahl, Gunnar, 3,424,163.
A/S Stormbull: *See—*
Gjerde, Trygve, 3,422,592.
A/S Thunes Mekaniske Vaerksted: *See—*
Nagell, Carl Otto, 3,486,972.
Asada, Atsushi; and Washizuka, Isamu, to Hayakawa Denki Kogyo Kabushiki Kaisha. Register controlling system. 3,469,085, 9-23-69, Cl. 235-153.
Asada, Atsushi; and Washizuka, Isamu, to Hayakawa Denki Kogyo Kabushiki Kaisha. High speed digital arithmetic unit with radix connection. 3,486,015, 12-23-69, Cl. 235-170.
Asada, Chiaki; and Watanabe, Toshiyuki, to Daido Seiko Kabushiki Kaisha. Process for strengthening a low carbon high strength steel. 3,454,432, 7-8-69, Cl. 148-12.3
Asada, Fumio: *See—*
Kaneko, Kansaku; Fujiwara, Toshimasa; and Asada, Fumio,3,487,248.
Asada, Mitsuo: *See—*
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa,3,448,195.
Taniguchi, Kanji; Asada, Mitsuo; and Sakimoto, Reiji,3,474,167.
Uchayashi, Yuzuru; Sakimoto, Reiji; Ishii, Keiichiro; Asada, Mitsuo; and Taniguchi, Takuzo,3,427,385.
Asada, Takeo. Automatic ticket gate. 3,433,475, 3-18-69, Cl. 271-57.
Asada, Takeo: *See—*
Yamamoto, Mititaka; Mizuta, Yukio; Tanaka, Toshio; and Asada, Takeo,3,443,675.
Asahi Breweries Ltd.: *See—*
Tahara, Sanae, 3,472,737.
Takayanagi, Sho, 3,433,148.
Asahi Glass Co., Ltd.: *See—*
Matsuzaki, Teizo; Minami, Kuniyuki; and Sasagawa, Yoshiaki, 3,439,849.
Matsuzaki, Teizo, 3,485,425.
Nakahara, Shigeru; and Toyoda, Yoichi, 3,469,887.
Ochi, Hiroshi; Taki, Hiroshige; Sugimoto, Kimio; Hayase, Yoshimi; and Nakazawa, Bungo, 3,420,733.
Sese, Kiyoaki, 3,471,259.
Ukihashi, Hiroshi; and Hisasue, Michio, 3,459,818.
Asahi Kasei Kogyo Co., Ltd.: *See—*
Ito, Makoto; and Yamamoto, Kazumoto, 3,432,192.
Asahi Kasei Kogyo Kabushiki Kaisha: *See—*
Asami, Atsumi; Ikee, Eitoku; Nakashima, Eizo; and Takata, Hirokichi, 3,430,428.
Harada, Tadamasa; and Omura, Isao, 3,476,622.
Hayashi, Shigeru, 3,435,495.
Inoue, Goro; and Ohshima, Noboru, 3,442,940.
Ishida, Shin'ichi; Kato, Toshio; Kurihara, Masakazu; Takahashi, Yasunobu; and Fukuda, Hiromichi, 3,462,394.
Ishida, Shin'ichi; Kajihara, Akira; Tokushige, Akira; Ohki, Hayashi; and Sato, Kunio, 3,471,998.

Ishida, Shinichi; and Ohama, Hiroshi, 3,420,797.
Ishida, Shinichi; Ohama, Hiroshi; and Matsumoto, Koichi, 3,422,070.
Ishida, Shinichi; and Saito, Shizuko, 3,422,074.
Ishida, Shinichi; Fukuda, Horomichi; and Saito, Shizuko, 3,457,233.
Ishida, Shinichi; Sato, Kunio; Fujita, Norimasa; Fukuda, Hiromichi; Mori, Kyoichiro; and Kugler, Fritz, 3,470,135.
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; and Ikeda, Takeshi, 3,431,336.
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; Ikeda, Takeshi; Nakajima, Eizo; and Kobatake, Takashi, 3,452,129.
Ito, Miyaji; and Yanase, Toshiro, 3,458,271.
Kai, Tsunetoshi, 3,473,943.
Kato, Tsuneyuki; Aoshima, Atsushi; Kubota, Yasuhiro; and Matsumura, Kenji, 3,446,840.
Kihara, Toshihiko; Jono, Kazuo; and Fukuma, Noboru, 3,422,491.
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,436,369.
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,448,074.
Kobayashi, Hidehiko; Ohama, Hiroshi; and Saito, Shizuko, 3,433,773.
Kobayshi, Hidehiko; Ohama, Hiroshi; and Izawa, Shin-Ichi, 3,455,880.
Kominami, Naoya; Nakajima, Hitoshi; and Tamura, Nobuhiro, 3,433,820.
Kominami, Naoya; Nakajima, Hitoshi; Watanabe, Itaru; Kimura, Takeo; and Sakurai, Tokio, 3,465,028.
Masai, Shohachi; Kawakami, Shigemitsu; and Okamoto, Tsugio, 3,436,296.
Matsuoka, Shigeru; Fujisawa, Kiyoshi; Masai, Shohachi; and Asami, Atsumi, 3,475,891.
Mihara, Kazuhiko; Yamashiki, Takashi; and Takano, Mitsuo, 3,432,429.
Mihara, Kzauhiko; and Kato, Masaaki, 3,453,201.
Minekawa, Saburo; Yamaguchi, Koretaka; Toyomoto, Kazuo; Fujimoto, Einosuke; and Suzuki, Teruhiko, 3,449,179.
Minekawa, Saburo; Yamaguchi, Koretaka; and Sakamoto, Kuniaki, 3,470,144.
Murao, Taiichi; Katsuyama, Shigeo; and Sasaki, Toshio, 3,443,002.
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi, 3,431,232.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi, 3,431,233.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi, 3,474,068.
Muroi, Soichi; and Takai, Shinzo, 3,487,031.
Murono, Yoshiaki, 3,439,393.
Nakayama, Chozo; Kaku, Teiichi; Aizawa, Hiizu; and Iwamoto, Takeaki, 3,472,017.
Ohfuka, Toshio; Shirode, Katsumi; and Ichikawa, Yasushi, 3,432,482.
Ouchi, Shunji; Sowa, Tuneo; Tunoda, Kozo; and Senoo, Saburo, 3,464,973.
Ouchi, Shunji; Yamada, Hiraku; Kameyama, Naohito; Kurihara, Masakazu; Senoh, Saburo; and Sowa, Tuneo, 3,475,409.
Saotome, Kazuo; and Sato, Kenichiro, 3,431,298.
Seko, Maomi; Kakihana, Hidetake; and Kurisu, Kimiko, 3,425,924.
Sowa, Tuneo; Sato, Kenji; Ouchi, Shunji; Ohsawa, Takeyoshi; and Senoo, Saburo, 3,466,273.
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru, 3,433,156.
Takai, Hideo; Hayashi, Shigeru; and Saito, Yoshihiro, 3,473,747.
Takizawa, Yu; Ikeda, Minoru; and Tojima, Shoji, 3,474,520.
Tsuzimoto, Hideyuki; and Ikeda, Megumi, 3,469,293.
Yamaguchi, Hiroyuki; and Takada, Mituho, 3,436,250.
Yano, Nobumitsu; Fukushima, Masao; Satou, Terumasa; and Senoh, Saburo, 3,457,254.
Yomiyama, Akira; Kato, Tsuneyuki; Aoshima, Atsushi; and Kawanishi, Tokuichiro, 3,433,831.

Asahi Kogaku Kogyo Kabushiki Kaisha: *See*—
Karikawa, Toru, 3,481,553.
Kazamaki, Tomokazu; and Matsumoto, Toru, 3,447,858.
Kazamaki, Tomokazu; and Takahashi, Yasuo, 3,451,745.
Kazamaki, Tomokazu; and Matsumoto, Tohru, 3,467,462.
Kobayashi, Koichi, 3,486,805.
Miyakawa, Seinan, 3,470,798.
Nomura, Katsuhiko; and Umemura, Sachio, 3,448,668.
Suzuki, Minoru, 3,439,600.
Suzuki, Minoru, 3,448,669.
Suzuki, Minoru, 3,448,670.
Suzuki, Minoru; and Uno, Naoyuki, 3,470,805.
Suzuki, Minoru; and Uno, Naoyuki, 3,486,434.
Suzuki, Monoru; and Nomura, Katsuhiko, 3,481,262.
Takahashi, Yasuo, 3,459,469.
Uno, Naoyuki; Sakazaki, Tadazumi; and Suzuki, Minoru, 3,451,323.
Uno, Naoyuki, 3,470,806.
Uno, Naoyuki, 3,470,807.

Asahina, Jiro. Ionized air producing device. 3,422,263, 1-14-69, Cl. 250-44.

Asai, Harmumi; Komai, Hisataka; and Hada, Nobuhide, to Japanese Geon Company, Ltd., The. Method for preparation of polyvinyl ethers. 3,468,856, 9-23-69, Cl. 260-80.3

Asai, Isao: *See*—
Kobayashi, Tamotsu; and Asai, Isao,3,483,476.
Schmoock, Roy L.; and Asai, Isao,3,445,643.
Wapner, Joseph; Nines, Eugene; and Asai, Isao,3,448,408.

Asaka, Mitsuo; Komatsu, Makoto; and Jufiyama, Susumu, to Japan Gas-Chemical Company, Inc. Process for recovering highly pure isoprene by extractive distillation with methoxypropionitrile. 3,436,437, 4-1-69, Cl. 260-681.5

Asaka, Shigefumi: *See*—
Yokogawa, Mutsuo; Asaka, Shigefumi; and Araki, Mataichi,3,450,584.

Asakawa, Kenichi: *See*—
Yonczaki, Shigeru; Obu, Misao; and Asakawa, Kenichi,3,457,097.

Asakawa, Toshihiko, to Sanyo Electric Co., Ltd. Ice cube making apparatus. 3,470,709, 10-7-69, Cl. 62-347.

Asamaki, Tatsuo: *See*—
Oda, Zenjiro; Saito, Koichi; Asamaki, Tatsuo; and Mori, Tokio,3,436,332.

Asami, Atsumi; Ikee, Eitoku; Nakashima, Eizo; and Takata, Hirokichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Apparatus for cutting a running yarn in a centrifugal type spinning machine. 3,430,428, 3-4-69, Cl. 57-34.

Asami, Atsumi: *See*—
Matsuoka, Shigeru; Fujisawa, Kiyoshi; Masai, Shohachi; and Asami, Atsumi,3,475,891.

Asami, Ko; and Hariu, Hiroshi, to Mitsubishi Rayon Co., Ltd. Process for producing synthetic resin article having mar-resistant surface. 3,465,076, 9-2-69, Cl. 264-255.

Asamura, Shunzo, to Yawata Iron & Steel Co., Ltd. Apparatus for carrying a converter or a container similar thereto. 3,434,606, 3-25-69, Cl. 214-38.

Asano, Kazuo. Clamping device. 3,466,706, 9-16-69, Cl. 18-19.

Asano, Ryozo: *See*—
Tokita, Tetsuo; Morio, Minoru; and Asano, Ryozo,3,452,240.

Asano, Taisuke; Nakano, Mamoru; Sato, Yasuhiro; Shimodaira, Takashi; and Kamata, Keiko, to Mitsubishi Petrochemical Co., Ltd. Process for recovering acrylic and methacrylic ester. 3,470,238, 9-30-69, Cl. 260-486.

Asano, Tatsuro: *See*—
Yamada, Kiyoshi; Takeuchi, Rikio; Morimoto, Ikuhisa; and Asano, Tatsuro,3,469,051.

Asanuma, Rikio: *See*—
Nakagawa, Takehisa; and Asanuma, Rikio,3,429,762.

Asari, Akira, to Kobe Steel Ltd. High speed returning impact forming machine. 3,425,261, 2-4-69, Cl. 72-450.

Asari, Akira, to Kobe Steel Ltd. High speed returning impact forming machine. 3,427,856, 2-18-69, Cl. 72-450.

Asari, Akira, to Kobe Steel Ltd. Method and apparatus for operating the ram of an impact machine. 3,427,857, 2-18-69, Cl. 72-453.

Asari, Akira, to Kobe Steel Ltd. Combined extrusion residue receiver and billet guide for metal extrusion press. 3,462,991, 8-26-69, Cl. 72-257.

Asato, Goro: *See*—
Berkelhammer, Gerald; and Asato, Goro,3,452,035.

Asbridge, George Herbert, to Shackleton, Mitchell, and Company. Manufacture of crankshafts. 3,463,326, 8-26-69, Cl. 212-1.

Asbury, Edward G., to Signal-Lite Road Marker Co. Portable roadway signal device. 3,478,715, 11-18-69, Cl. 116-63.

Asbury, Joseph J., to United States of America, Atomic Energy Commission. Fabrication of elongated products. 3,462,797, 8-26-69, Cl. 18-34.

Ascani, Leonard A., Jr., to North American Rockwell Corporation. Convertible propulsion package. 3,448,945, 6-10-69, Cl. 244-12.

Ascast Corporation: *See*—
Kolle, George Frederic, 3,459,255.

Asch, Gale. Installation of fasteners in concrete. 3,479,785, 11-25-69, Cl. 52-701.

Aschauer, George R., to Twin Disc, Incorporated. Combination friction clutch and fluid coupling. 3,463,281, 8-26-69, Cl. 192-57.

Aschberger, Anton A., to Continental Can Company, Inc. Machine for spin flanging of containers. 3,469,428, 9-30-69, Cl. 72-94.

Aschenbrenner, Claus M.; Hsieh, Hsueh Y.; and Libby, Richard L., to Itek Corporation. Laser data recorder. 3,438,050, 4-8-69, Cl. 346-49.

Ascoli, Enzo, to Paillard S. A. Process and device for producing four substantially sinusoidal voltages. 3,426,215, 2-4-69, Cl. 307-83.

Ascoli, Enzo, to Paillard S.A. Writing headproducing a jet of ink. 3,458,760, 729-69, Cl. 317-3.
Ascoli, Enzo, to Paillard S.A. Writing head producing a jet of ink. 3,458,761, 7-29-69, Cl. 317-3.
Ascoli, Enzo, to Paillard S.A. Writing head producing a jet of ink. 3,458,762, 7-29-69, Cl. 317-3.
Ascoli, Enzo, to Paillard S.A. Tubular needle, chiefly for writing with a jet of ink. 3,466,659, 9-9-69, Cl. 346-140.
Ascough, Keith Judge: *See—*
Lawson, Kenneth Thomas; and Ascough, Keith Judge,3,426,730.
Ascuitto, Anthony L.; and Romani, Vito J., to National Pump & Injector Sales & Service. Adapter for mounting hydraulic pump. 3,435,778, 4-1-69, Cl. 103-218.
Aselman, Edward C., Jr., to T.N.E., Incorporated. Control apparatus for an electrically operable device. 3,435,289, 3-25-69, Cl. 317-13.
Asenbauer, Donald J., to Shell Oil Company. Stacking and nesting containers with retracting stacking bail. 3,421,656, 1-14-69, Cl. 220-97.
Asenbauer, Donald J., to Shell Oil Company. Adjustable circuit board box. 3,463,343, 8-26-69, Cl. 220-8.
Asenbauer, Donald J., to Shell Oil Company. Water-tight plastic container. 3,464,579, 9-2-69, Cl. 220-4.
Asendorf, Robert H., to Hughes Aircraft Company. Adaptive self-organizing pattern recognizing system. 3,457,552, 7-22-69, Cl. 340-172.5
Aseptic Thermo Indicator Company: *See—*
Davis, Ward Benjamin, 3,420,635.
Aser, Gilbert A.; Figler, Robert H.; Manghirmalani, Arjan T.; and Redding, Thomas P., to Xerox Corporation. Pressure roll and method of manufacturing. 3,435,500, 4-1-69, Cl. 29-130.
Aser, Gilbert A.; and Stokes, David R., to Xerox Corporation. Electroded cascade development system. 3,424,131, 1-28-69, Cl. 118-637.
Asfazadourian, Michel; Muths, Robert; and Prillieux, Marcel, to Esso Research and Engineering Company. Lubricating compositions for compression refrigerators. 3,449,459, 6-10-69, Cl. 260-671.
Asfazadourian, Michel; and Prillieux, Marcel, to Esso Research and Engineering Company. Complexes, process for preparing them and their applications. 3,440,234, 4-22-69, Cl. 260-91.7
Ash, Eugene J.: *See—*
Keller, Robert P.; and Ash, Eugene J.,3,428,372.
Ash, Malcolm Donald, to Morgan Refractories Limited. Fibrous insulating materials and channels lined with same. 3,480,125, 11-25-69, Cl. 193-2.
Ash, William W.; Kosanke, Kurt M.; and Sincerbox, Glenn T., to International Business Machines Corporation. Apparatus for reading information selectively from storage devices. 3,423,736, 1-21-69, Cl. 340-173.
Ashbaugh, Donald L., to United States Steel Corporation. Annealing furnace seal. 3,476,370, 11-4-69, Cl. 263-40.
Ashbrook, Allan W.; and Ritcey, Gordon M., to Eldorado Mining and Refining Limited. Separation of cobalt from nickel by extraction from ammoniacal solution. 3,438,768, 4-15-69, Cl. 75-119.
Ashbrook, Allan W.; Ritcey, Gordon M.; and Joe, Edwin G., to Canadian Patents and Development Limited. Mixed extractant and process for separating copper from cobalt and nickel in acid medium. 3,455,680, 7-15-69, Cl. 75-117.
Ashbrook, Clifford Logan. Pressure vessel. 3,450,039, 6-17-69, Cl. 100-269.
Ashburn, Lennie L., to Pennsalt Chemicals Corporation. Cyclone separation of particles in vapor coating. 3,447,951, 6-3-69, Cl. 117-101.
Ashby, Bruce A., to General Electric Company. Silylurethane terminated polyester compositions. 3,448,072, 6-3-69, Cl. 260-40.
Ashby, Bruce A., to General Electric Company. Curable compositions of diolefin polymers. 3,471,440. 10-7-69, Cl. 260-41.5
Ashby, Bruce A.; and Pearson, Arthur E., Jr., to Carborundum Company, The, mesne. Filter leaves. 3,486,627, 12-30-69, Cl. 210-486.
Ashby, Eugene C., to M & T Chemicals Inc. Method for the preparation of grignard compounds in hydrocarbon solution. 3,426,087, 2-4-69, Cl. 260-665.
Ashby, Frederick R.: *See—*
Ettore, Harold V.; Ashby, Frederick R.; and Faccou, Harlan N.,3,475,261.
Ashby, Frederick R.; and Luebs, Donald F., to U.S. Plywood-Champion Papers Inc. Concealed building panel fastener. 3,469,866, 9-30-69, Cl. 287-20.924
Ashby, Frederick R.; and Ropella, Leonard A., to U.S. Plywood-Champion Papers Inc. Door-transom assembly and method of manufacture. 3,484,994, 12-23-69, Cl. 49-501.
Ashby, John Gardiner; and Burrell, Dennis Sampson, to Spencer, Matthias, & Sons Limited. Tool retaining devices. 3,468,553, 9-23-69, Cl. 279-97.
Ashby, Robert L. Clutch rebuilding and testing mechanism. 3,473,373, 10-21-69, Cl. 73-118.
Ashby, Theodore L.; and Dick, Clarence R., to Dow Chemical Company, The. Copolymers of acrylamide and N-aralkyl-2- aminoalkyl acrylate. 3,462,400, 8-19-69, Cl. 260-86.1
Ashby, Theodore L.; and Parrish, Donald B., to Dow Chemical Company, The. Polymer compounds with 2-(1-aziridinyl) alkyl acrylates and methacrylates. 3,480,601, 11-25-69, Cl. 260-86.1
Ashby, Willis L. System for detecting coherent energy in the presence of saturating noise. 3,435,345, 3-25-69, Cl. 325-423.
Ashcraft, Arnold C., Jr.: *See—*
Potts, James E.; Ashcraft, Arnold C., Jr.; and Wise, Edgar W.,3,472,826.
Ashcraft, James A., to McDonnell Douglas Corporation, mesne. Method for etching aluminum. 3,486,954, 12-30-69, Cl. 156-19.
Ashcraft, William D., to North American Rockwell Corporation. Signal verifying device. 3,443,099, 5-6-69, Cl. 250-203.
Ashcroft, Thomas Brian, to International Nickel Company, Inc., The. Method for coating steel with nickel. 3,479,258, 11-18-69, Cl. 204-38.
Ashdee Corp.: *See—*
Bass, Raymond H., 3,434,457.
Asher, John W.; and Claypoole, Stewart A., to Corning Glass Works. Terminal assembly for encapsulated electrical devices. 3,437,736, 4-8-69, Cl. 174-52.
Asher, Robert J. Rescue sled. 3,453,000, 7-1-69, Cl. 280-18.
Asher, William J., to Esso Research and Engineering Company. Single-ring naphthene removal. 3,437,590, 4-8-69, Cl. 208-310.
Ashford, Ernest Stanley: *See—*
Dilger, Lawrence; and Ashford, Ernest Stanley,3,478,854.
Ashford, Jack: *See—*
Kremer, Joseph H.; and Ashford, Jack,3,470,887.
Ashikaga, Tadao; Kurashige, Hirotoshi; and Endoh, Takeo, to Kurashiki Rayon Co., Ltd. Process for preparing polyvinyl formal. 3,484,409, 12-16-69, Cl. 260-73.
Ashikaga, Tadao: *See—*
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru,3,484,334.
Ashjian, Henry, to Mobil Oil Corporation. Thermosetting copolymers based on adducts of unsaturated amides and organic epoxides. 3,456,036, 7-15-69, Cl. 260-837.
Ashkenas, Irving L.; Durand, Tulvio S.; and McRuer, Duane T., to Systems Technology, Inc. Apparatus for measuring operator performance. 3,483,302, 12-9-69, Cl. 35-10.2
Ashkin, Arthur, to Bell Telephone Laboratories, Incorporated. Tunable semiconductor optical masers. 3,479,614, 11-18-69, Cl. 331-94.5
Ashland Oil & Refining Company: *See—*
Bloomquist, Arnold E.; Sedor, Edward A.; and Slagel, Robert C., 3,485,806.
Budde, Walter M., Jr., 3,442,936.
Clocker, Edwin T., 3,475,306.
Coates, Carlton E., 3,463,712.
Coats, Carlton E., 3,428,586.
Coats, Carlton E., 3,428,589.
Coats, Carlton E., 3,480,575.
Culbertson, Billy M., 3,453,236.
Curtice, Gerald M.; and Taft, David D., 3,442,835.
Egan, Richard R.; and Smiens, Leon D., 3,428,682.
Egan, Richard R.; and Smiens, Leon D., 3,456,013.
Egan, Richard Raymond; and Lampson, Sidney Bruce, 3,433,645.
Finnamore, James William, 3,437,682.
Forrester, Robert A.; and Pietsch, Kerwyn L., 3,463,755.
Graver, Richard B.; and Sedgwick, Grant O., 3,434,988.
Graver, Richard B.; and Wallman, Walter A., 3,437,481.
Graver, Richard B., 3,468,704.
Graver, Richard B., 3,468,857.
Graver, Richard B.; Heidecker, Stephen C.; and Taft, David D., 3,481,735.
Hanson, Richard C., 3,437,615.
Hughes, Graham Keith, 3,465,026.
Impola, Clarence N.; and McKillip, William J., 3,440,224.
Klare, Robert J.; and Sedgwick, Grant O., 3,423,341.
Larimer, Victor L., 3,479,377.
Leas, Arnold M., 3,431,094.
McKillip, William J.; and Throckmorton, Peter E., 3,432,475.
McKillip, William J., 3,450,673.
Miller, Charles R., 3,434,851.
Nordstrom, John D., 3,424,724.
Nordstrom, John David, 3,464,938.
Nordstrom, John David, 3,479,328.
Otto, Wolfgang K. F., 3,431,205.
Otto, Wolfgang K. F., 3,448,052.
Rippie, Charles W., 3,450,628.
Robins, Janis; and Schafer, Robert J., 3,426,831.
Robins, Janis, 3,429,848.
Robins, Janis, 3,431,969.
Robins, Janis, 3,485,797.
Shulman, Garson P.; and Young, Freeman M., 3,466,302.
Slagel, Robert C., 3,437,667.
Slagel, Robert C., 3,437,686.
Slagel, Robert C., 3,463,794.
Taft, David D., 3,437,618.

Taft, David D., 3,453,224.
Taft, David D., 3,455,858.
Wallman, Walter A.; and Taft, David D., 3,485,781.
Way, William E., 3,481,465.
Whitsel, Travis S., Jr, 3,463,612.
Wright, William R., 3,464,184.
Ashley, Albert H., to Sylvania Electric Products, Inc. Memory drive circuitry. 3,473,149, 10-14-69, Cl. 340-147.
Ashley, Carlyle M., to Carrier Corporation. System for rendering a saline solution potable. 3,477,241, 11-11-69, Cl. 62-124.
Ashley, Edmond J.: *See—*
Bennett, Harold E.; Bennett, Jean M.; and Ashley, Edmond J.,3,421,079.
Ashley, Francis R., to Bell Telephone Laboratories, Incorporated. Wave limiter circuit and apparatus. 3,443,249, 5-6-69, Cl. 333-17.
Ashley, Joseph; and Keahl, Gerald Thomas, to Beckman Instruments, Inc. Filter grating monochromator. 3,447,873, 6-3-69, Cl. 356-100.
Ashley, Merwin F. Globe map device. 3,471,946, 10-14-69, Cl. 35-46.
Ashley, Paul E.; and Sutter, Clair G., to Sperry Rand Corporation. Torsion bar suspension for rate gyroscopes. 3,430,276, 3-4-69, Cl. 74-5.
Ashley, Robert B., to General Electric Company. Simplified deflection system for plural in-line beam cathode ray tube. 3,430,099, 2-25-69, Cl. 315-27.
Ashley, William H., Jr., to Baum, Frank E. Method and apparatus for remotely selectively controlling electrical devices operating from a common source. 3,463,983, 8-26-69, Cl. 318-103.
Ashlin, David L.; and Fehn, Allan J. Golf club cover. 3,426,815, 2-11-69, Cl. 150-52.
Ashlock, Geo. W., Co.: *See—*
Margaroli, John L.; and Hesse, Earl J., 3,469,612.
Ashman, Leland E., to Little, Arthur D., Inc. Apparatus for making glass fibers. 3,479,167, 11-18-69, Cl. 65-1.
Ashman, Robert B., to Scovill Manufacturing Company. Tire valve core. 3,486,522, 12-30-69, Cl. 137-234.5
Ashner, Mark. Gear shift. 3,465,606, 9-9-69, Cl. 74-217.
Ashpole, Raymond Sidney; and Davidson, Thomas William, to English Electric Company, Limited, The. Glass fabric reinforced mica tape and process for production thereof. 3,434,872, 3-25-69, Cl. 117-126.
Ashpole, Raymond Sidney; and Wells, Sydney Tom, to English Electric Company Limited, The. Method of coating metallic wire or strip with glass. 3,451,847, 6-24-69, Cl. 117-231.
Ashrafi, Shahid H.: *See—*
Siddiqui, Salimuzzaman; Qureshi, Shabbir A.; and Ashrafi, Shahid H.,3,454,664.
Ashtabula Bow Socket Company, The: *See—*
Hussey, Robert R., 3,442,551.
Ashton Containers Limited: *See—*
Hawkins, Mervyn Roy, 3,433,400.
Ashton, G Elmo. Maintenance meter. 3,434,454, 3-25-69, Cl. 116-133.
Ashton, George H., to Bemis Company, Inc. Packaging apparatus. 3,461,648, 8-19-69, Cl. 53-183.
Ashton, Raymond J.: *See—*
Mallory, Donald G.; Ashton, Raymond J.; and Liva, Robert H.,3,480,360.
Ashton, Robert: *See—*
Butler, James G.; and Ashton, Robert,3,442,069.
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter, to Massey-Ferguson Industries Limited. Variable speed drive. 3,457,797, 7-29-69, Cl. 74-230.17
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter, to Massey-Ferguson Industries Limited. Ground speed responsive variable drive for crop handling apparatus. 3,466,854, 9-16-69, Cl. 56-21.
Ashton, Shirley B.: *See—*
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B.,3,468,529.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B.,3,479,023.
Ashton, Thomas Richard: *See—*
Hudson, Clifford Harold; Ashton, Thomas Richard; Cottle, Victor Claude Herbert; and Jackson, David,3,466,850.
Ashton, William Eric; and Weil, Edward D., to Hooker Chemical Corporation. Immobilization of oyster drills in oyster beds. 3,433,877, 3-18-69, Cl. 424-353.
Ashurkov, Evstafy Borisovich: *See—*
Putyato, Jury Sergeevich; Medvedenko, Arkady Markovich; Martsinkevich, Alexandr Vladimirovich; and Ashurkov, Evstafy Borisovich,3,487,352.
Ashworth Bros., Inc.: *See—*
Roinestad, Gerald C.; Rodman, John F., Jr.; and Burnett, John S., 3,439,795.
Roinestad, Gerald C., 3,467,239.
Ashworth, Colin Trevor, to Abrasive Developments Limited. Apparatus for washing and degreasing. 3,426,378, 2-11-69, Cl. 15-3.
Ashworth, Gordon; and Dunlop, John, to Imperial Chemical Industries, Limited. Process for manufacturing foamed plastic articles having outer skin by curing with microwaves. 3,420,923, 1-7-69, Cl. 264-26.
Ashworth, James E.; and Bartz, August L., to United States Steel Corporation. Receptacle former. 3,460,372, 8-12-69, Cl. 72-454.
Ashworth, John T.: *See—*
Schoenbaum, Alexander W.; Ashworth, John T.; and Brooks, John G.,3,428,053.
Ashworth, Roger W.; and Mercer, Alec V., to Shell Oil Company. Flame retardant polyurethanes from phosphonitrilic esters and their preparation. 3,450,675, 6-17-69, Cl. 260-77.5
Ashworth, William J. Electro-mechanical transducer. 3,449,531, 6-10-69, Cl. 179-115.
Asick, John Carl: *See—*
Lightner, Linn Stephen; Bennett, Benny Morris; and Asick, John Carl,3,439,314.
Asinger, Friedrich, to Ethyl Corporation. Preparation of acyl halides. 3,453,325, 7-1-69, Cl. 260-544.
Ask, Clifford W.: *See—*
Siegmund, Walter P.; Koester, Charles J.; and Ask, Clifford W.,3,442,568.
Ask, Henry R., to United Aircraft Corporation. Lightweight automatic flight control mechanism. 3,421,719, 1-14-69, Cl. 244-78.
Ask, Henry R., to United Aircraft Corporation. Control of earth moving machinery. 3,477,152, 11-11-69, Cl. 37-129.
Aske, Charles B., Jr.; and Wood, Edward L., to Gar Wood Industries, Inc. Vehicle wheel trim. 3,436,123, 4-1-69, Cl. 301-37.
Aske, Leonard E., to Honeywell Inc. Cellular structure and method of manufacture. 3,445,348, 5-20-69, Cl. 204-9.
Aske, Leonard E. Auxiliary fuel superheater for starting internal combustion engines. 3,448,733, 6-10-69, Cl. 123-180.
Aske, Leonard E., to Honeywell Inc. Method of making controllers. 3,460,249, 8-12-69, Cl. 29-622.
Askins, Robert E.: *See—*
Glick, Robert L.; and Askins, Robert E.,3,452,544.
Asklund, Per Filip Andreas; and Frode, Per Enar Lennart, to Svenska Ackumulator Aktiebolaget Jungner. Safety valve. 3,455,482, 7-15-69, Cl. 220-44.
Askowith, Burton J.: *See—*
Middleton, William J., Jr.; and Askowith, Burton J.,3,453,037.
Ogle, James; and Askowith, Burton,3,483,388.
Askren, Sherman G. Universal extractor tool. 3,484,129, 12-16-69, Cl. 294-15.
A. S. Kvaerner Brug: *See—*
Hover, Per E., 3,483,588.
Aslaksen, Erik W., to Bell Telephone Laboratories, Incorporated. Balanced signal mixers and power dividing circuits. 3,477,028, 11-4-69, Cl. 325-446.
Aslan, Wilfred, to Alkon Products Corporation. Check valve mechanism. 3,421,547, 1-14-69, Cl. 137-539.
Aslan, Wilfred, to Alkon Products Corporation. Flow control valve. 3,441,249, 4-29-69, Cl. 251-333.
Asman, Norman John, to American Can Company. End closures for liquid container. 3,460,739, 8-12-69, Cl. 229-37.
Asman, Norman John, to American Can Company. Foldable carton and blank with triangle shaped corner. 3,462,065, 8-19-69, Cl. 229-31.
Asman, Norman John, to American Can Company. Foldable carton and blank with pleated corner. 3,476,304, 11-4-69, Cl. 229-31.
Asman, Norman John, to American Can Company. Foldable carton and blank with integral corner structural support. 3,476,305, 11-4-69, Cl. 229-31.
Asmus, Alexander, to Siemens Aktiengesellschaft. Specimen tilting device for particle beam apparatus. 3,444,367, 5-13-69, Cl. 250-49.5
Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst, to Siemens Aktiengesellschaft. Airlock assembly for corpuscular ray devices. 3,483,373, 12-9-69, Cl. 250-49.5
Asmus, Alexander: *See—*
Wolff, Otto; Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst,3,474,246.
Asmus, Klaus-Dieter: *See—*
Cherdron, Harald; Leugering, Hans Joachim; Fischer, Edgar; and Asmus, Klaus-Dieter,3,467,625.
Fischer, Edgar; Schott, Claus; and Asmus, Klaus,3,453,238.
Asmus, Richard W.; and Jecker, Andrew E. Container closure and seal. 3,428,202, 2-18-69, Cl. 215-40.
Asmus, Richard W.; and Jecker, Andrew E. Readily opened sealed container. 3,473,691, 10-21-69, Cl. 220-46.
Asnani, Gul C.: *See—*
Harries, William S.; Piper, Robert G.; Daugherty, Don G.; Scribner, Neal; and Asnani, Gul C.,3,470,557.
Aso, Kotaro: *See—*
Chikamasa, Hiroshi; and Aso, Kotaro,3,476,363.
Tsunoda, Yoshimasa; Iwata, Hideo; Okada, Tsutomu; and Aso, Kotaro,3,475,801.
Asogawa, Tatuo: *See—*
Fujii, Kiyoshi; Asogawa, Tatuo; Yamaguchi, Yoshio; Fujii, Chikaaki; Noguchi, Yukihide; and Funakoshi, Yoshiro,3,483,831.

Aspaas, Finn. Method for mounting plate shaped building sections. 3,426,493, 211-69, Cl. 52-403.
Asper, Jean-Jacques, to Brasco S.A. Filter element scraping device. 3,454,164, 7-8-69, Cl. 210-108.
Asplund, Arne Johan Arthur. Apparatus for impregnating fibrous material. 3,471,365, 10-7-69, Cl. 162-237.
Asplund, Arne Johan Arthur; and Johansson, Johan Gunnar Inge, to Defibrator Aktiebolag. Grinding apparatus. 3,467,323, 9-16-69, Cl. 241-247.
Asplund, Arne Johan Arthur; and Reinhall, Rolf Bertil, to Defibrator Aktiebolag. Method of producing pulps from lignocellulose containing materials. 3,446,699, 5-27-69, Cl. 162-19.
Aspro-Nicholas Limited: *See*—
Wiggins, Leslie Frederick, 3,443,014.
Assael, Marcel. Device for fastening hangings or a decorative strip across the top of a window. 3,463,217, 8-26-69, Cl. 160-39.
Assarsson, Anders: *See*—
Nilsson, Thomas; and Assarsson, Anders,3,486,969.
Asscher, Meir; Vofsi, David; and Katchalsky, Aharon, to Yeda Research and Development Co., Ltd.Process for the production of β-chloroorgano- sulfones. 3,441,614, 4-29-69, Cl. 260-607.
Asselin, George F., to Universal Oil Products Company. Recovery of aromatics from multiple hydrocarbon streams. 3,422,163, 1-14-69, Cl. 260-674.
Assmus, Friedrich Fritzof: *See*—
Von Zeppelin, Kurt; Assmus, Friedrich Fritzof; and Wolber, Robert,3,444,747.
Ganter, Wolfgang; and Assmus, Friedrich,3,456,137.
Ganter, Wolfgang; and Assmus, Friedrich,3,485,034.
Ganter, Wolfgang; and Assmus, Friedrich,3,485,035.
Assmus, Fritz; Boll, Richard; Detert, Klaus; Ganz, Dietrich; Ibe, Gerhard; and Pfeifer, Friedrich, to Vacuumschmelze Aktiengesellschaft. Silicon-iron magnetic sheets having cube-on-face grains. 3,466,201, 9-9-69, Cl. 148-31.55
Associated Cargo Gear AB: *See*—
Hansen, Sten A. R.; and Barkstrom, Nils E. A., 3,456,562.
Hansen, Sten Anders Runeson, 3,444,789.
Nordh, Ulf Sune Ivar, 3,430,675.
Olsson, Johan Bertil, 3,440,762.
Olsson, Johan Bertil, 3,462,786.
Olsson, Johan Bertil, 3,467,164.
Associated Chemical Companies Limited: *See*—
Farquhar, James Thomson; and Green, Rosemary, 3,446,717.
Associated Development Corporation: *See*—
Johnson, Joseph N., 3,441,360.
Associated Electrical Industries Limited: *See*—
Allen, Alec George, 3,474,179.
Blundell, Alan John, 3,474,302.
Cure, John Raymond, 3,487,264.
Dickinson, Clifford James; and Carew, Noel John, 3,459,979.
Flurscheim, Cedric Harald, 3,420,541.
Goodall, James, 3,447,119.
Grindell, Duncan Holmes, 3,485,978.
Heath, John Stewart, 3,440,417.
Howard, John Christie; Howard, John Farquhar; Allen, Alec George; and Neenan, Patrick Anthony, 3,435,878.
Howard, John Christie, 3,440,323.
Jameel, Khaja Mohiuddin, 3,447,106.
Knapon, Arthur George; and Raine, Thomas, 3,450,573.
Lane, Peter John; and Wheeler, Rodney Edward William, 3,459,899.
Lewis, Colin Bright, 3,461,358.
Lewis, Colin Bright, 3,480,844.
Lightbody, Eric William; and Abram, Leo, 3,483,396.
Longworth, David Philip, 3,467,857.
Maskall, Peter Thomas Reginald, 3,448,790.
Maycock, William Henry, 3,421,825.
Merren, Thomas Oliver, 3,465,142.
Millar, Bryan, 3,483,552.
Monks, Alfred James, 3,469,092.
Shannon, James Forrest, 3,425,301.
Shannon, James Forrest, 3,459,072.
Sidebotham, Eric; and Human, George James, 3,440,972.
Sims, William John, 3,438,128.
Undery, Denis William, 3,428,069.
Warman, Bloomfield, 3,426,155.
Warman, Bloomfield James, 3,420,962.
Warman, Bloomfield James; Hicks, Donald Keith; and Barned, Alan James, 3,449,521.
Associated Engineering Limited: *See*—
Dickson, Eric Winston, 3,440,156.
Dickson, Eric Winston; and Groom[illegible]thony Frederick, 3,467,593.
Nix, Maurice George, 3,460,239.
Associated Octel Company Limited, The: *See*—
Moss, Ronald; Campbell, Kenneth; an[illegible]hs, Samuel T., 3,481,866.
Peres, Robert L., 3,465,767.
Associated Piping & Engineering Co.: *See*—
McInnis, Andrew M., 3,435,651.
Associated Portland Cement Manufacturers Limited: *See*—
Dynes, Barry, 3,454,769.
Associated Spring Corporation: *See*—
Maker, James H., 3,429,408.
Maker, James H., 3,455,152.
Rimmer, Stanley M., 3,427,838.
Asta-Werke AG., Chemische Fabrik: *See*—
Vogelsang, Dietrich; Brock, Norbert; and Lenke, Hans-Dieter, 3,472,836.
Astatic Corporation, The: *See*—
Cvetko, Henry J., 3,423,542.
Astheimer, Robert W., to Barnes Engineering Company. Infrared thermometer. 3,449,121, 6-10-69, Cl. 73-355.
Astheimer, Robert W., to Barnes Engineering Company. Clear air turbulence radiometer. 3,475,963, 11-4-69, Cl. 73-355.
Astheimer, Robert W., to Barnes Engineering Company. Pyroelectric radiation detection system with extended frequency range and reduced capacitance. 3,480,777, 11-25-69, Cl. 250-83.3
Astheimer, Robert W., to Barnes Engineering Company. Balance type horizon sensor. 3,486,024, 12-23-69, Cl. 250-83.3
Astheimer, Robert W.; and Buckley, Robert E., to Barnes Engineering Company. Laser calorimeter with cavitated pyroelectric detector and heat sink. 3,459,945, 8-5-69, Cl. 250-211.
Astheimer, Robert W.; and McHenry, Thomas F., to Barnes Engineering Company. Instrument to correct survey errors caused by atmospheric refraction. 3,446,559, 5-27-69, Cl. 356-128.
Astin, Edwain R.; and Weight, Donald L. Piano sounding board. 3,425,308, 2-4-69, Cl. 84-192.
Astley, Edward Thomas, to Crosfield Electronics Limited. Optical scanners. 3,450,014, 6-17-69, Cl. 95-4.5
Astley, Edward T.; King, Daniel L.; and Gold, Daniel, to Crosfield Electronic Limited. Photoelectric register control of presses for printing, folding or cutting webs. 3,439,176, 4-15-69, Cl. 250-219.
Astley, Harold Trevor; and Jones, Alfred Illtyd Webber, to Lockspike Limited. Method of making a concrete railway sleeper and rail and fastening arrangement employing a sleeper made by the method. 3,427,700, 2-18-69, Cl. 29-155.
Aston, Bruno D. Cosmetic applicator case and replaceable cartridge therefor. 3,468,612, 9-23-69, Cl. 401-188.
Aston, Keith, to Pavelle Limited. Colour printing apparatus. 3,458,254, 7-29-69, Cl. 88-24.
Astro Dynamics, Inc.: *See*—
Hildt, John M., 3,435,671.
Katz, Leonhard, 3,471,761.
Katz, Leonhard, 3,477,502.
Katz, Leonhard, 3,487,328.
Astro Research Corporation: *See*—
Schuerch, Hans U., 3,424,220.
Astro-Science Corporation: *See*—
Grant, Frederic F., 3,446,088.
Astrodata, Inc.: *See*—
Grado, Gilbert R., 3,457,394.
Hussey, Joseph L., 3,462,588.
Madsen, R Glen, 3,469,198.
Watson, William Keith Ross; and Risely, Richard E., 3,456,062.
Astrom, Nils Osten. Arrangement for removing particles of dust from the work zones of pneumatic, eroding-type work tools. 3,442,337, 5-6-69, Cl. 173-61.
Astrosystems International, Inc.: *See*—
Comer, Robert C., 3,442,179.
Astrup Company, The: *See*—
Darula, Andrew J., 3,478,806.
Asunmaa, Saara K., to Owens-Illinois, Inc. Method for initiating and controlling crystallization of glass. 3,445,209, 5-20-69, Cl. 65-33.
Asunmaa, Saara K.; and Steierman, Bernard L., to Owens-Illinois, Inc. Decorating articles utilizing high energy radiation. 3,480,459, 11-25-69, Cl. 117-17.5
Asztalos, Gyorgy, to Metcrimpex Magyar Muszeripari Kulkereskedelmi Vallalat. Method for measuring delay and distortion of frequency components. 3,436,652, 4-1-69, Cl. 324-57.
Atalla, Martin M.; Archer, Robert J.; Hall, Robert D.; and Engelman, Reinhart W. H., to Hewlett-Packard Company. Semiconducr bulk oscillators. 3,422,289, 1-14-69, Cl. 307-299.
Atarashi, Sueo: *See*—
Hattori, Kiyoshi; and Atarashi, Sueo,3,431,259.
Atarashi, Yuji: *See*—
Matsumura, Kiichiro; Sugawara, Yoshio; Kamaishi, Tadami; and Atarashi, Yuji,3,475,394.
Atchey, George L., to VePed Traffic Controls, Inc. Portable collapsible scaffold. 3,472,337, 10-14-69, Cl. 182-2.
Atchinson, Paul C., Sr., 1/2 to Spear, J. H. Means for feedin g each of a succession of sows. 3,473,515, 10-21-69, Cl. 119-27.
Atchison, Albert A. Automatic latching extension ladder. 3,420,333, 1-7-69, Cl. 182-211.
Atchison, Edward J. Vehicle drive apparatus. 3,442,359, 5-6-69, Cl. 192-41.
Atchley, Raymond D., to Abex Corporation. Hydraulic fluid amplifier controlled servovalve. 3,444,877, 5-20-69, Cl. 137-81.5
Ateliers Bariguand & Marre, Societe Anonyme: *See*—
Guffon, Rene, 3,455,634.

Ateliers Bariquand & Marre, Societe Anonyme: *See—*
Guffon, Rene M. P., 3,450,464.
Ateliers Belges Reunis Societe Anonyme: *See—*
Gaupin, Arthur Jules, 3,466,936.
Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme: *See—*
Brabon, Roger; Beaumariage, Andre; De Boeck, Willy; De Broeyer, Roland; Delplancke, Firmin; and Van Innis, Marcel, 3,465,097.
Cuvelier, Jean, 3,483,321.
Demeur, Jean, 3,428,822.
Hannard, Andre, 3,440,855.
Viart, Fernand, 3,472,987.
Ateliers de Constructions Mecaniques de Vevey S. A.: *See—*
Raeber, Victor, 3,447,550.
Ateliers de la Motobecane, Societe Anonyme: *See—*
Jaulmes, Eric, 3,438,650.
Jaulmes, Eric, 3,483,932.
Ateliers de Montages Electriques: *See—*
Lattard, Jean, 3,427,571.
Lattard, Jean, 3,484,786.
Ateliers des Charmilles S.A.: *See—*
Pfau, Jean; Rhyner, Heinz; and Semon, Georges, 3,454,737.
Piguet, Pierre, 3,463,453.
Ateliers et Chantiers du Havre Duchesne & Bossiere et Augustin-Normand Reunis: *See—*
Fournier, Gilbert, 3,465,941.
Ateliers Francois Brasseur: *See—*
Vitry, Gerard, 3,422,735.
Ates Componenti Elettronici S.p.A.: *See—*
Paletto, Raimondo, 3,425,880.
Athanas, Christo P., to Slica Corporation. Apparatus for measuring roundness characteristics. 3,440,887, 4-29-69, Cl. 73-432.
Athanasiou, John G. Precision toolholder. 3,448,988, 6-10-69, Cl. 279-16.
Athanassiadis, Eleftherios G.: *See—*
Olmstead, John; Jacobus, Lewis A., Jr.; and Athanassiadis, Eleftherios G.,3,427,514.
Athena Control Incorporated: *See—*
Evalds, Egils, 3,453,450.
Atherton, Arden Daniel, to Dole Valve Company, The. Self sealing bobbin for encapsulated solenoid coils. 3,451,021, 6-17-69, Cl. 335-260.
Athey, Stuart E.; and Allen, Charles M., to Hobart Manufacturing Company, The. Motor speed control. 3,456,180, 7-15-69, Cl. 318-325.
Athletic Devices, Inc.: *See—*
Nedwick, Zygmund, 3,451,677.
Atkeson, Florian V., to PPG Industries, Inc. Method and apparatus for the manufacture of float glass on a bi-level support bath. 3,459,523, 8-5-69, Cl. 65-99.
Atkin, Ronald, to United Shoe Machinery Corporation, mesne. Method and means for pressure-moulding of articles by controlling the fluid pressure through utilization of the deformation of the platen. 3,446,879, 5-27-69, Cl. 264-40.
Atkin, Roy, to Elliott Brothers (London) Limited. Self-monitored gyro-system. 3,451,275, 6-24-69, Cl. 74-5.34
Atkin, Sydney: *See—*
Cook, Lucien H.; and Atkin, Sydney,3,477,842.
Atkins, Bobby L., to Dow Chemical Company, The. Composition and method for acidizing wells. 3,434,971, 3-25-69, Cl. 252-8.55
Atkins, Bobby L.; and Harper, Billy G., to Dow Chemical Company, The. Method of making a polymer-lined pipe. 3,429,954, 2-25-69, Cl. 264-22.
Atkins, Bobby L.: *See—*
Welsh, William M.; and Atkins, Bobby L.,3,428,470.
Atkins, Carl E., to Wagner Electric Corporation, mesne. Lamp outage detector. 3,421,157, 1-7-69, Cl. 340-251.
Atkins, Carl E.; and Ziolkowski, Robert L., to Wagner Electric Corporation, mesne. Condition responsive circuit. 3,435,298, 3-25-69, Cl. 317-146.
Atkins, David B., to Jackson Buff Corporation, mesne. Combined soft cloth and hard coarse cord buff. 3,438,080, 4-15-69, Cl. 15-230.13
Atkins, Earle R., Jr., to Union Oil Company of California. Method for increasing the recovery of oil from water-sensitive formations. 3,428,127, 2-18-69, Cl. 166-274.
Atkins, Elbert W.: *See—*
Peck, Richard C.; and Atkins, Elbert W.,3,428,890.
Atkins, Herbert Ashley, to Beecham Group Limited. Resilient bottle closure having opening means. 3,471,052, 10-7-69, Cl. 215-41.
Atkins, Leroy T. Shaping template clamp. 3,424,450, 1-28-69, Cl. 269-87.1
Atkins, Ralph E.: *See—*
Beckman, John B.; and Atkins, Ralph E.,3,435,488.
Atkins, Robert E., to General Dynamics Corporation. Pattern recognition system. 3,483,512, 12-9-69, Cl. 340-146.3
Atkins, Stanley G.; and Bailie, Stanley B. Apparatus for earth coring. 3,443,649, 5-13-69, Cl. 175-401.
Atkins, Stanley G.; and Bailie, Stanley B. Method of earth coring. 3,469,638, 9-30-69, Cl. 175-53.
Atkins, Stanley G.; and Bailie, Stanley B. Apparatus for earth coring. 3,482,641, 12-9-69, Cl. 175-19.
Atkinson, Garland P. Golf swing training device. 3,428,325, 2-18-69, Cl. 273-186.
Atkinson, George E.: *See—*
Bitter, Kenneth D.; Atkinson, George E.; and Fogle, William B.,3,433,082.
Atkinson, Howard, to Standard Kollsman Industries, Inc. Combination VHF/UHF television tuner. 3,473,392, 10-21-69, Cl. 74-10.8
Atkinson, James L.: *See—*
Boltinghouse, Joseph C.; and Atkinson, James L.,3,482,455.
Atkinson, Roger Lee; and Fader, Marshall Lloyd, to Miles Laboratories, Inc. Protein test composition, device and method. 3,438,737, 4-15-69, Cl. 23-230.
Atkinson, Roger Lee: *See—*
Fraser, Joseph Wilfred, Jr.; and Atkinson, Roger Lee,3,453,180.
Atkinson, Wallace E.: *See—*
Brody, Leo L.; and Atkinson, Wallace E.,3,464,240.
Atkinson, Wallace E., to Long Manufacturing Co., Inc. Drawbolt latching device with combination locking mechanism. 3,434,314, 3-25-69, Cl. 70-76.
Atkinson, Wallace E., to Long Manufacturing Company, Inc. Combination lock mechanism. 3,452,563, 7-1-69, Cl. 70-312.
Atkinson, Wallace E., to Long Manufacturing Company, Inc. Combination lock mechanism for luggage latches and the like. 3,459,016, 8-5-69, Cl. 70-312.
Atkinson, Wesley H. Disconnectable drive means for shafts. 3,431,795, 3-11-69, Cl. 74-545.
Atkinson, William H.: *See—*
Roland, Max G., 3,453,007.
Atkinson, William Henry, to Western Electric Company, Incorporated. Twin bit wire wrapping tool. 3,443,606, 5-13-69, Cl. 140-124.
Atkinson, William Thomas, to Daniels, Archer, Midland Company. Aluminum-modified alginate fiber. 3,455,697, 7-15-69, Cl. 99-14.
Atkinson, William T., to Archer-Daniels-Midland Company. Process for preparing a high protein snack. 3,480,442, 11-25-69, Cl. 99-17.
Atlantic Business Forms Company: *See—*
Johnsen, Edward L., 3,482,780.
Atlantic Coast Line Railroad Company: *See—*
McLean, Leonard A., 3,446,319.
Atlantic Company: *See—*
Rubel, Jay E., 3,468,100.
Atlantic Products Corporation: *See—*
Kish, Michael, Jr., 3,447,649.
Kish, Michael, Jr., 3,477,553.
Atlantic Refining Company, The: *See—*
Brown, Cicero C., 3,477,744.
Kremer, Charles J.; Lewis, Walter E. F.; and Gilden, Aaron Robert, 3,458,392.
Atlantic Richfield Company: *See—*
Baker, Thomas Nelson, III, 3,457,313.
Baker, Thomas Nelson, III; Michalski, Conrad; Sheng, Ming Nan; and Zajacek, John G., 3,480,519.
Becker, Matthew L., 3,469,370.
Bitar, Louie S.; and Grane, Henry R., 3,480,666.
Bonetti, Giovanni A.; and Rosenthal, Rudolph, 3,480,563.
Borchert, Alfred E.; and Capaldi, Eugene C., 3,465,046.
Borchert, Alfred E.; Mekler, Arlen B.; and Sauer, Richard W., 3,485,770.
Brown, Cicero C., 3,457,992.
Capaldi, Eugene C.; and Leum, Leonard N., 3,433,844.
Capaldi, Eugene C., 3,437,701.
Capaldi, Eugene C.; and Borchert, Alfred E., 3,457,318.
Cleary, James M., 3,438,204.
Condo, Albert C., 3,445,416.
Crocker, Richard E.; Kaplan, Martin L.; and Hayes, Charles H., 3,442,954.
Crocker, Richard E.; and Kuenn, Henry J., 3,463,809.
Cymbalisty, Lubomyr M. O., 3,433,245.
Daigh, Harold D., 3,446,196.
Daigh, Harold D., 3,448,731.
Daigh, Harold D., 3,457,906.
Daigh, Harold D.; and Collins, Clifford H., 3,465,736.
De Witt, William J.; and Taylor, Robert C., 3,480,556.
Doan, Robert B.; and Taylor, Robert C., 3,436,351.
Dunlap, Henry F., 3,470,953.
Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L., 3,470,031.
Grane, Henry R., 3,474,151.
Grane, Henry R., 3,478,108.
Hersh, Harold R.; and Boyce, John E., 3,432,452.
Jacobs, Harry E.; Jubin, John C., Jr.; and Masologites, George P., 3,454,666.
Jubin, John C., Jr.; and Zabielski, Stephen F., 3,441,498.
Jubin, John C., Jr., 3,464,897.
Jubin, John C., Jr., 3,471,370.

Lewis, Walter E. F., 3,428,591.
Lincoln, Robert M.; and Meyers, Joseph A., III, 3,465,033.
Lini, David C.; Ramey, Kermit C.; and Wise, William B., 3,465,043.
Mameniskis, Walter A.; and Washall, Thomas A., 3,485,879.
Masologites, George P.; Jacobs, Harry E.; and White, Paul J., 3,472,759.
Masologites, George P.; Jacobs, Harry E.; and White, Paul J., 3,477,943.
Mitchell, Maurice M., Jr., 3,479,381.
Pritchett, William C., 3,435,215.
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L., 3,484,608.
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L., 3,484,609.
Racine, William J.; Alpert, Edward D.; and Caldwell, James H., Jr., 3,438,889.
Reid, John C.; Doan, Robert B.; and Taylor, Robert C., 3,463,736.
Rieve, Robert W., 3,454,363.
Rieve Robert W., 3,462,503.
Rosenthal, Rudolph; and Bonetti, Giovanni A., 3,445,523.
Russell, Donald H., 3,464,948.
Schuh, Frank J., 3,459,270.
Sheng, Ming Nan; and Zajacek, John G., 3,434,975.
Sheng, Ming Nan; and Zajacek, John G., 3,453,218.
Sorgenti, Harold A., 3,478,118.
Steffgen, Frederick W., 3,446,863.
Steffgen, Frederick W., 3,463,829.
Steffgen, Frederick W., 3,476,809.
Tave, Richard G., 3,453,068.
Tave, Richard G., 3,463,604.
Wakefield, Charles E., Jr., 3,457,932.
Washall, Thomas A., 3,427,358.
Washall, Thomas A., 3,464,896.
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R., 3,421,730.
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R., 3,423,711.

Atlantic Semiconductor: *See—*
Hambor, John, 3,478,252.

Atlas Bolt & Screw Company, The: *See—*
Dyer, Alvin C., Jr., 3,460,640.

Atlas Chain Co., Ltd.: *See—*
Anderson, Roy H.; and Lemery, Douglas J., 3,425,260.

Atlas Chemical Industries, Inc.: *See—*
Benson, Frederic R., 3,485,638.
Bergs, Arvids; and Lee, John T. M., 3,426,578.
Bluhm, Harold F., 3,447,978.
Bluhm, Harold F.; and Gehrig, Neil E., 3,447,979.
Brizzolara, Henry M., 3,452,631.
Brizzolara, Henry M., 3,482,484.
Canonico, Domenic A.; Sakaguchi, Edwin M.; and Wellers, Charles A. W., 3,458,683.
Courtney, Donald L., 3,458,624.
Du Ross, James W., 3,438,787.
Ford, Ernest C., Jr.; and Zech, John D., 3,458,477.
Gehrig, Neil E., 3,470,041.
Hales, Ralph A., 3,445,528.
Hales, Ralph A., 3,484,492.
Hartmann, Ludwig A., 3,454,603.
Hartmann, Ludwig A., 3,480,651.
Hartmann, Ludwig A., 3,484,459.
Hughes, Francis A., 3,468,701.
Knightly, William H., 3,485,639.
LeMaistre, John W.; and Sherman, Albert H., 3,427,355.
Lensack, Gabriel P., 3,437,492.
Martin, Graham D., 3,438,325.
Restaino, Alfred J.; and Reed, Weldon N., 3,461,052.
Sherburne, Edwin Collier, 3,468,869.
Slawinski, Frank, 3,455,242.
Slawinski, Frank E.; and Whetstone, Herbert H., 3,420,173.
Thornton, James R., 3,442,727.

Atlas Copco Aktiebolag: *See—*
Bratt, Sven Ake, 3,473,439.
Carlsson, Osten, 3,464,625.
Ekstrom, Gosta Ivar; and Blomberg, Jarl Joel, 3,451,492.
Ekwall, Carl Gosta Bernhard, 3,442,289.
Eriksson, Sven-Erik Nore, 3,443,704.
Karden, Karl Gosta, 3,436,107.
Kimber, Erich Voldemar, 3,459,394.
Kimber, Erich Voldemar, 3,467,201.
Lagerstrom, Gunnar, 3,436,923.
Lewkowicz, Josef, 3,481,410.
Persson, Jan Edvard, 3,437,263.
Stork, Sven-Torsten, 3,455,346.
Stromnes, Axel, 3,476,193.
Westerlund, Bengt Arvid, 3,481,409.
Wicklund, Sven Erik, 3,424,252.

Atlas Meb-&-Analysentechnik G.m.b.H.: *See—*
Brunnee, Curt; and Kappus, Gunter, 3,426,192.

Atlas Metal Industries, Inc.: *See—*
Salkoff, Goodwin; and Nusbaum, Elmer R., 3,421,458.

Atlas Pacific Engineering Company: *See—*
Loveland, Malcolm W., 3,473,588.

Atlas Pipe Popper Corporation: *See—*
Pizzagalli, Remo R., 3,469,298.

Atlas Spokane, Inc.: *See—*
Peterson, John L.; and Pettis, George H., 3,469,464.
Peterson, John L., 3,469,719.
Peterson, John L., 3,469,720.

Atlas Tool & Manufacturing Company: *See—*
Kortum, Robert E., 3,442,355.

Atlas-Mak Maschinenbau GmbH: *See—*
Nemitz, Paul, 3,451,238.
Wachendorf, Friedrich Karl, 3,466,863.

Atlas-Pacific Engineering Company: *See—*
Blakewell, Roland F.; Lanzinger, Robert H.; and Loveland, Malcolm W., 3,444,912.
Matthews, Rudolph; Blakewell, Roland F.; and Simpson, Frank E., 3,439,791.

Atlas-Rand Corporation: *See—*
Caprio, Lawrence Anthony, 3,449,044.
French, Robert E., 3,436,147.

Atlas-Werke Aktiengesellschaft: *See—*
Puschner, Herbert A., 3,481,266.

Atomic Disposer Corporation: *See—*
Chambers, Joseph W., Sr., 3,455,518.

Atomic Energy Board: *See—*
Grant, Walter Lawrence, 3,420,738.
Grant, Walter Lawrence, 3,481,831.

Atomic Energy of Canada Limited: *See—*
Banville, Bertrand J. R., 3,465,147.
Bensussan, Andre Marc; and Hodge, Ronald I., 3,439,193.
Feraday, Melville A., 3,442,761.
Hodge, Ronald I., 3,439,194.
Jones, Alun R.; and Gedcke, Dale A., 3,428,807.
Lewis, Wilfrid B.; and Wolfe, William A., 3,470,408.
Nieuwhof, Gerardus Wilhelmus Elisabeth, 3,444,493.
Robertson, John A. L., 3,462,371.
Sawatzky, Anton, 3,440,140.
Watson, Robert D.; and Russell, Norman Hall, 3,472,704.
Wuschke, Edgar Edwin, 3,470,465.

Atomic Fuel Corporation: *See—*
Seko, Maomi; Kakihana, Hidetake; and Kurisu, Kimiko, 3,425,924.

Atomic Power Development Associates, Inc.: *See—*
Muenchow, Herbert O.; Chamberlain, Harry V.; Chase, Wayne L.; and Bucki, Joseph, 3,442,118.
Oppenheimer, Edgar D., 3,442,130.
Shoudy, Albert A., Jr., 3,460,236.
Vilinskas, Peter, 3,452,585.

Atsons Products Corporation: *See—*
Topiel, Pincus; and Feldman, Samuel, 3,465,366.

Atsukawa, Masumi; Nishimoto, Yoshihiko; and Matsumoto, Kazuhiro, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of contacting a gas with a particulate solid. 3,485,014, 12-23-69, Cl. 55-73.

Atsumi, Katsuya, to Akai Electric Company Limited. Head cover arrangement on magnetic tape recorder. 3,421,767, 1-14-69, Cl. 274-4.

Atsumi, Katsuya. Magnetic head arrangement with recording and reproducing heads on opposite sides of tape record. 3,427,409, 2-11-69, Cl. 179-100.2

Atsumi, Katsuya, to Akai Electric Company Limited. Recording and biasing head assembly for magnetic tape recorders. 3,439,126, 4-15-69, Cl. 179-100.2

Atsumi, Katsuya, to Akai Electric Company Limited. Tape drive control mechanism for magnetic tape recorders. 3,443,812, 5-13-69, Cl. 274-4.

Atsumi, Katsuya, to Akai Electric Company Limited. Tape drive and brake mechanism for a magnetic tape recorder. 3,448,940, 6-10-69, Cl. 242-55.12

Atsumi, Katsuya: *See—*
Iwai, Katsuyuki; Fukatsu, Motonori; and Atsumi, Katsuya,3,465,098.

Atsumi, Kunio, to Suzuki Jidosha Kogyo Kabushiki Kaisha (Trade name Suzuki Motor Co., Ltd.). Oil pump for an engine. 3,435,914, 4-1-69, Cl. 184-6.

Atsumi, Yaichiro: *See—*
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro,3,425,359.

Attali, Georges, to Schlumberger Technology Corporation, mesne. Methods and apparatus for investigating earth formations including measuring the resistivity of radially different formation zones. 3,453,530, 7-1-69, Cl. 324-1.

Attali, Georges, to Schlumberger Technology Corporation. Well logging methods and apparatus having plural electrode arrays. 3,462,679, 8-19-69, Cl. 324-10.

Attaway, Julian J. Roof expansion joint cover and flashing. 3,425,172, 2-4-69, Cl. 52-58.

Atteberry, Johnny C.: *See—*
Campbell, George W., Jr.; Nies, Nelson P.; and Atteberry, Johnny C.,3,479,137.
Attebo, Erik Gunnar, to Aktiebolaget Kalle-Regulatorer. Hydraulic actuator. 3,425,218, 2-4-69, Cl. 60-52.
Attebo, Erik Gunnar, to Aktiebolaget Kalle-Regulatorer. Signal transmitting means for a regulator. 3,482,589, 12-9-69, Cl. 137-85.
Attenhofer, A., AG: *See—*
Dobler, Hans, 3,466,057.
Attention, Inc.: *See—*
Westin, Dale B., 3,471,958.
Atterbury, Stanley T. Knockdown storage bicycle. 3,466,060, 9-9-69, Cl. 280-287.
Atterby, Per Albin. Process for cleaning and corrosion protection of metals and a composition therefor. 3,441,419, 4-29-69, Cl. 106-14.
Attfield, Donald J.; and Wilkes, William W., to Imperial Chemical Industries Limited. Spinnerets. 3,438,087, 4-15-69, Cl. 18-8.
Atti, Eros, to Westinghouse Electric Corporation. High contrast cathode ray tube. 3,427,490, 2-11-69, Cl. 313-106.
Attix, Frank H. Method of determining radiation dose through a package and dosimeter therefor. 3,440,420, 4-22-69, Cl. 250-83.
Attix, Frank H., to United States of America, Navy. Thermoluminescent dosimetry test system and method. 3,480,776, 11-25-69, Cl. 250-83.3
Attix, Frank H., to United States of America, Navy. Thermoluminescent dosimeter. 3,484,605, 12-16-69, Cl. 250-71.
Attridge, John T., to Westinghouse Electric Corporation. Load-center. 3,462,648, 8-19-69, Cl. 317-99.
Attwood, Brian Ernest, to U.S. Philips Corporation, mesne. Audio amplifier circuits and the like. 3,449,679, 6-10-69, Cl. 330-10.
Attwood, Brian Ernest, to U.S. Philips Corporation. Time-base. 3,456,150, 7-15-69, Cl. 315-27.
Attwood, Charles W.: *See—*
Attwood, Charles W.; and Papayoti, Hristo V., 3,421,280.
Attwood, Charles W., deceased (by Attwood, James W., and Attwood, Warren R., executors); and Papayoti, Hristo V., said Papayoti assor to Attwood, Charles W., Estate of. Building construction. 3,421,280, 1-14-69, Cl. 52-648.
Attwood, Charles W. Tubing. 3,437,779, 4-8-69, Cl. 219-59.
Attwood, John G.; and Kosrow, Robert L., to Union Special Machine Company. Control circuit for electromechanical devices. 3,447,051, 5-27-69, Cl. 318-127.
Attwood, John Hamilton, to Esso Research and Engineering Company. Propeller bosses. 3,446,290, 5-27-69, Cl. 170-173.
Attwood, Warren R.; and Henry, Herbert J., to Unistrut Corporation. Fastening clamp. 3,468,567, 9-23-69, Cl. 287-51.
Atwater, Bennett L.: *See—*
Penisten, Robert J.; and Atwater, Bennett L.,3,425,931.
Atwater, Franklin S., to Textron, Inc., mesne. Mold for filling a truncated ball to be ground. 3,437,307, 4-8-69, Cl. 249-91.
Atwater, Robert M.: *See—*
Nissen, Warren I.; and Atwater, Robert M.,3,461,616.
Atwater, Wayne G.: *See—*
Alstedt, William A.; and Atwater, Wayne G.,3,445,010.
Armington, Raymond Q.; and Atwater, Wayne G.,3,485,389.
Atwater, Wayne G., to Triax Company, The. Storage system with a transfer mechanism for an article handling vehicle. 3,485,390, 12-23-69, Cl. 214-16.4
Atwell, William H., to Dow Corning Corporation. Disilacyclohexadienes. 3,465,018, 9-2-69, Cl. 260-448.2
Atwell, William H., to Dow Corning Corporation. Thermolysis of alkoxy disilanes in the presence of alcohols to provide hydrogen-substituted alkoxymonosilanes. 3,478,078, 11-11-69, Cl. 260-448.8
Atwell, William H., to Dow Corning Corporation. Novel dialkoxymethyl(trialkoxy)silanes and a method for their preparation. 3,478,079, 11-11-69, Cl. 260-448.8.
Atwicker, Elmar R., to Universal Oil Products Company. N-Polycyclic hydrocarbyl substituted phenylenediamines. 3,453,329, 7-1-69, Cl. 260-576.
Atwood & Morrill Co.: *See—*
Hose, Alexander V.; and Prescott, Norman F., 3,428,090.
Atwood, Bruce C.: *See—*
Touw, Theodore R.; Swaney, Casper B.; and Atwood, Bruce C.,3,453,727.
Atwood, Elmer G. Can dispensing and transporting unit. 3,477,774, 11-11-69, Cl. 312-45.
Atwood, George E.; Bourne, Douglas J.; and Lamb, Frank E., to Duval Corporation. Method of producing ammonium sulfate, potassium sulfate and magnesium oxide from langbeinite. 3,436,175, 4-1-69, Cl. 23-119.
Atwood, Glenn A.: *See—*
Welty, Albert B., Jr.; Johnson, Russell R.; and Atwood, Glenn A.,3,476,513.
Atwood, Harold T. Rounding apparatus for dough. 3,448,697, 6-10-69, Cl. 107-9.
Atwood, John G.; and Kerr, Edwin L., to Perkin-Elmer Corporation, The. Microphone. 3,433,959, 3-18-69, Cl. 250-199.
Atwood, Lamar T., to Southworth Machine Company. Method of ream collecting single sheets. 3,463,485, 8-26-69, Cl. 271-89.
Atwood, Mark T., to Continental Oil Company. Process for producing aluminum alkyls and alpha- olefins. 3,423,444, 1-21-69, Cl. 260-448.
Atwood, Mark T.; Napier, Donald R.; and Oertle, Donald H., to Continental Oil Company. Method of inhibiting corrosion. 3,457,030, 7-22-69, Cl. 21-2.7
Atwood, Rawson; and Calby, Joseph W., to Dyson-Kissner Corporation, The. Textile tube. 3,451,639, 6-24-69, Cl. 242-118.32
Atwood Vacuum Machine Company: *See—*
Leonhardt, Robert F., 3,450,425.
Marchione, Joseph H., 3,434,179.
Peters, Robbert N., 3,447,191.
Atz, Robert W., to United States of America, Atomic Energy Commission. Centrifugal pump of the free surface type. 3,431,860, 3-11-69, Cl. 103-111.
Au Werter, Jay P. Parallel line fluid system with meter regulating valve. 3,470,896, 10-7-69, Cl. 137-110.
Auberger, Jacques: *See—*
Leygue, Guy; and Auberger, Jacques,3,469,830.
Aubert, Georges, to Schlumberger, N., & Cie. Method of preparing sides of meat for boning on an automatic machine. 3,483,592, 12-16-69, Cl. 17-46.
Aubert, Henri N.: *See—*
Vachon, Jeannine C. M.; and Aubert, Henri N.,3,437,988.
Aubert, Jacques; and Silhouette, Jean-Max Marie, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Aircraft jet engines having afterburners and adjustable jet pipes. 3,472,028, 10-14-69, Cl. 60-237.
Aubin, Gerard: *See—*
Devaux, Adrien; and Aubin, Gerard,3,473,892.
Aubrey, William M., Jr.: *See—*
Schoolcraft, John L.; Aubrey, William M., Jr.; and Moyer, William H., Jr.,3,456,792.
Stone, Rodney L.; and Aubrey, William M., Jr.,3,441,401.
Auburn Research Foundation: *See—*
Walker, Donald F.; Rice, Duane N.; Crowson, David H.; and Vachon, Reginald I., 3,470,873.
Auburn Rubber Company: *See—*
Hodson, Richard J., 3,433,365.
Auchapt, Pierre; Girard, Bernard; and Sautray, Roger, to Commissariat a l'Energie Atomique. Steam distillation of solvents with uranium salt addition. 3,445,346, 5-20-69, Cl. 203-33.
Auchard, Gerald V., to Case, J. I., Company. Self-propelled windrower. 3,478,831, 11-18-69, Cl. 180-6.48
Auckland, Wayne James, to SWECO, Inc. Screening separator. 3,478,406, 11-18-69, Cl. 209-334.
Aucktor, Erich, to Lohr & Bromkamp GmbH. Universal joint. 3,475,924, 11-4-69, Cl. 64-21.
Auclair, Jean-Michel: *See—*
Robieux, Jean; and Auclair, Jean-Michel,3,443,087.
Auclair, Michel: *See—*
Alliot, Louis; Auclair, Michel; and Godouet, Francois,3,480,419.
Audesse, Emery G.; and Huston, Leroy S., Jr. Incandescent lamp. 3,466,489, 9-9-69, Cl. 313-222.
Audette, Anita A.: *See—*
Audette, Michael L.; and Audette, Anita A.,3,478,696.
Audette, Michael L.; and Audette, Anita A. Pumping container. 3,478,696, 11-18-69, Cl. 103-236.
Audette, Richard T., to Texas Instruments Incorporated. Miniature thermostatic switch. 3,430,177, 2-25-69, Cl. 337-365.
Audichron Company, The: *See—*
Bryant, Ellis H., Jr., 3,478,168.
Audio Magnetics Corporation: *See—*
Katzef, Irving B.; and Abitboul, Georges D.; 3,423,038.
Audiscan Corporation: *See—*
Skuja, Ivars M., 3,466,123.
Aue, Walter Alois: *See—*
Dannley, Ralph Lawrence; Aue, Walter Alois; and Farrant, George Carlton,3,458,546.
Auer, Aarne Matias: *See—*
Virtanen, Aate R.; and Auer, Aarne Matias,3,433,072.
Auer, Alois. Ski simulator apparatus. 3,467,374, 9-16-69, Cl. 272-57.
Auer, John H., Jr., to General Signal Corporation. Apparatus for measuring traffic density. 3,445,637, 5-20-69, Cl. 235-150.2
Auer, John H., Jr.; and Frielinghaus, Klaus H., to General Signal Corporation. Vehicle detection and speed measuring apparatus. 3,441,905, 4-29-69, Cl. 340-38.
Auer, John H., Jr.; and Huffman, Jerry P., to General Signal Corporation. Sonic presence detector system. 3,474,400, 10-21-69, Cl. 340-1.
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P., to General Signal Corporation. Code communication system. 3,423,733, 1-21-69, Cl. 340-168.
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P., to General Signal Corporation. Traffic signal control system. 3,482,208, 12-2-69, Cl. 340-35.

Auer, Werner, to Teldix Luftfahrt-Ausrustungs G.m.b.H. Gyrocompass follow-up system. 3,443,321, 5-13-69, Cl. 33-226.
Auer, William F.; Bonovitz, James J.; and Valleau, Robert L., to Comar Electric Company. Arc preventing means for a switching relay. 3,451,019, 6-17-69, Cl. 335-201.
Auer, William F.: *See—*
Fendler, Lawrence B.; and Auer, William F.,3,486,048.
Auerbach, David R., to Perkin-Elmer Corporation, The. Expandable diaphragm. 3,449,042, 6-10-69, Cl. 350-273.
Auerbach, Guenther; Schneider, Lukas; and Wehrli, Walter, to Sandoz Ltd., a/k/a Sandoz A.G. Reactive water-soluble cupriferous disazo dyes. 3,422,084, 1-14-69, Cl. 260-146.
Auerbach, William A.; Kurimsky, Albert; and Calzaretta, Richard, to Rowe International, Inc., mesne. Coin caddy change-making mechanism. 3,446,327, 5-27-69, Cl. 194-2.
Auergesellschaft G.m.b.H.: *See—*
Brauer, Lothar W., 3,467,601.
Auernhammer, Marcus J.; and Waara, William A., to Visi-Trol Engineering Company. Indexing drive for transfer machine. 3,437,191, 4-8-69, Cl. 198-135.
Aufderhaar, Ernst: *See—*
Seeliger, Wolfgang; and Aufderhaar, Ernst,3,450,699.
Aufderheide, Don R., to Vendit, Inc. Method and apparatus for validating documents by spectral analysis of light reflected therefrom. 3,480,785, 11-25-69, Cl. 250-219.
Aufhauser, Alfred. Application of irradiated melted wax-polyethylene blend to solids. 3,436,325, 4-1-69, Cl. 204-159.2
Augenstein, John G.; and Enault, Neal C., to McDonnell Douglas Corporation, mesne. Feed-through seal. 3,441,662, 4-29-69, Cl. 174-151.
Auger, Frank Pawley, to Distillers Company Limited, The. Flow rate measuring device. 3,452,595, 7-1-69, Cl. 73-204.
Auger, Frank Pawley, to BP Chemicals (U.K.) Limited. Gas chromatography apparatus and valves suitable for use therein. 3,477,207, 11-11-69, Cl. 55-197.
Auger, Raymond N., to Cutler Controls, Inc., mesne. Proximity detection device. 3,422,666, 1-21-69, Cl. 73-37.5
Auger, Raymond N., to Cutler Controls, Inc., mesne. Proximity detection device using conic/toroidal flow. 3,460,375, 8-12-69, Cl. 73-37.
Augunas, Algis G., to General Motors Corporation. Vehicle sunshade fastening means. 3,433,525, 3-18-69, Cl. 296-97.
August, Paul. Reversible gravity concrete or mortar mixer. 3,438,613, 4-15-69, Cl. 259-162.
Augusta, Joseph. Hair roller brake. 3,461,884, 8-19-69, Cl. 132-40.
Augustin, Eugene H.: *See—*
Alonzo, Richard L.; and Augustin, Eugene H.,3,486,869.
Alonzo, Richard L.; Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N.,3,481,729.
Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N., to Ford Motor Company. Composite tweel for chamber utilized in the manufacture of float glass. 3,486,876, 12-30-69, Cl. 65-172.
Augustin, Horst; and Heringlake, Ralph, to Lever Brother Company. Human or animal hair colourants comprising nitrobenzene dyes. 3,446,567, 5-27-69, Cl. 8-10.
Augustin, Johann; Wenger, Joachim; Reichardt, Manfred; and Spiegler, Ewald, to International Standard Electric Corporation. Storage device for use in teleprinters. 3,459,890, 8-5-69, Cl. 178-17.
Augustin, Verlynn O., to Wood Treating Chemical Company. Incising drum for wooden members. 3,478,790, 11-18-69, Cl. 144-233.
Augustin, Werner. Process for making a turnover at a fabric edge or the like, and also ancillary means for carrying out the process. 3,451,065, 6-24-69, Cl. 2-247.
Augustine, Alfred; and Guthrie, James M., to Loftus Engineering Corporation. Metal melting and refining furnace. 3,437,326, 4-8-69, Cl. 263-40.
Augustine, Eugene Edward. Display attachment for a wrist band. 3,455,043, 7-15-69, Cl. 40-21.
Aukerman, Agnes Lucille. Infant carrier. 3,481,517, 12-2-69, Cl. 224-6.
Aukland, Jerry C.: *See—*
Lind, James N.; and Aukland, Jerry C.,3,431,485.
Auksmann, Boris: *See—*
Scott, Ronald F.; Ko, Hon-Yim; and Auksmann, Boris,3,423,994.
Aul, Albert H., to General Marine Technology Corporation. Electrogravitational desalination of saline water. 3,474,014, 10-21-69, Cl. 204-150.
Auld, Joseph Robert, to Du Pont de Nemours, E. I., and Company. Magnesium surface for cooling TiO_2. 3,443,630, 5-13-69, Cl. 165-1.
Auld, Samuel H., to Lear Jet Corporation. Endless tape cartridge. 3,482,792, 12-9-69, Cl. 242-55.19
Auld, Samuel H.: *See—*
Lear, William P.; and Auld, Samuel H.,3,437,762.
Lear, William P.; and Auld, Samuel H.,3,478,973.
Auler, Hans W.; and Proske, Gerhard, to Englebert Aktiengesellschaft. Process for improved sulfur-vulcanization of mixtures of elastomers containing ethylene propylene terpolymers. 3,451,962, 6-24-69, Cl. 260-33.6
Auler, Herbert, to Passavant-Werke. Equipn ent for the introduction of gases into fluids. 3,458,176, 7-29-69, Cl. 259-130.
Auler, Herbert; and Muskat, Josef, to Passavant-Werke. Aeration apparatus. 3,473,790, 10-21-69, Cl. 261-91.
Aulik, Robert F.; and Cassie, Norman M., to Armour and Company. Adhesive coating receptive primer for inert plastic. 3,484,336, 12-16-69, Cl. 161-184.
Aulmann, Dietrich: *See—*
Brinkmeier, Friedhelm; and Aulmann, Dietrich,3,432,982.
Ault, Wayne Edward, 'Automatic' Sprinkler Corporation of America. Center strut sprinkler. 3,469,632, 9-30-69, Cl. 169-39.
Ault, Wayne E., Automatic Sprinkler Corporation of America. Ceiling sprinkler. 3,459,266, 8-5-69, Cl. 169-37.
Aumann, Robert E. Electrical teaching system. 3,477,143, 11-11-69, Cl. 35-9.
Aumayer, Hansruedi: *See—*
Kesselring, Fritz; and Aumayer, Hansruedi,3,486,137.
Aumont, Pierre Maurice: *See—*
Derippe, Jean-Marie; and Aumont, Pierre Maurice,3,454,915.
Aumuller, Walter: *See—*
Muth, Karl; Aumuller, Walter; Weyer, Rudi; and Weber, Helmut,3,420,882.
Aumuller, Walter; Weber, Helmut; Muth, Karl; Weyer, Rudi; and Schmidt, Felix, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulfonyl-ureas and process for their manufacture. 3,454,636, 7-8-69, Cl. 260-553.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Schmidt, Felix Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulfonyl ureas. 3,448,149, 6-3-69, Cl. 260-553.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Peschke, Wilhelm, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulfonyl ureas. 3,449,346, 6-10-69, Cl. 260-281.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Felix,3,426,067.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Muth, Karl,3,435,116.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Flix Helmut,3,454,635.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Korger, Gerhard,3,483,297.
Weber, Helmut; Muth, Karl; Weyer, Rudi; Aumuller, Walter; and Schmidt, Felix Helmut,3,449,417.
Aune, Edward S.; and Brown, Lyle Robert. Camera mounting device. 3,434,406, 3-25-69, Cl. 95-86.
Aungst, David C.; and Clement, Ira T., to Pennsylvania Fluorocarbon Company, Inc. Process for making corrugated plastic tubing. 3,445,552, 5-20-69, Cl. 264-40.
Aunspaugh, Aaron F. Fishing rod and reel holder. 3,484,066, 12-16-69, Cl. 248-41.
Aupetit, Marcel, to La Telemecanique Electrique. Circuit breaker apparatus. 3,420,971, 1-7-69, Cl. 200-144.
Auphan Michel; and Perilhou, Jean, to North American Philips Company, Inc. Method of and device for thermally measuring blood flow. 3,446,073, 5-27-69, Cl. 73-204.
Auphan, Michel, to U.S. Philips Corporation, mesne. Heart-actuated, spring driven cardiac stimulator. 3,486,506, 12-30-69, Cl. 128-419.
Aupox, Marcell: *See—*
Donadieu, Lucien; Kloeckner, Edmond; Aupox, Marcell; and Royet, Jean,3,470,508.
Auracher, August: *See—*
Mayr, Helmut; Pelte, Richard; and Auracher, August,3,425,776.
Aurelio, Salvatore P.; and Gardner, Thomas A., to Bennett Industries, Inc. Sonic energy dental cleaning device. 3,466,689, 9-16-69, Cl. 15-22.
Auriol, Jean, to Regie Nationale des Usines Renault. Differential-action change-speed mechanisms. 3,430,518, 3-4-69, Cl. 74-705.
Aurora Plastics Corp.: *See—*
Giammarino, Joseph E.; and Brand, Derek A., 3,424,379.
Ausfeld, Rudolf Arthur, to Landis & Gyr, A.G. Audio frequency transmitter including a load- guided inerter and direct coupling filter. 3,453,522, 7-1-69, Cl. 321-4.
Ausfeld, Rudolf Arthur. Power line communication systems. 3,483,546, 12-9-69, Cl. 340-310.
Ausherman, Harry S. Grain drying and debris separation device. 3,474,903, 10-28-69, Cl. 209-11.
Auslander, Harry; and Morano, Gary E. Golf stance correcting device. 3,423,094, 1-21-69, Cl. 273-187.
Ausnit, Steven. Container with force differential flexible fastener. 3,425,469, 2-4-69, Cl. 150-3.
Ausnit, Steven. Method of forming fastener assembly. 3,430,329, 3-4-69, Cl. 29-408.
Austad, Ralph William: *See—*
Bridge, William H.; Birmingham, Donald J.; and Austad, Ralph William,3,454,936.
Austen, Cecil John: *See—*
Watkin, David Anthony; Coode, Edward John; and Austen, Cecil John,3,435,685.

Austen, Jorg, to Porsche, Dr.-Ing., H.c.F., K.G., Firma. Heat exchanger for boat propulsion unit. 3,476,070, 11-4-69, Cl. 115-0.5

Austenal Europa, Inc.: *See—*
Keller, Arnold; and Pohl, Fritz Georg, 3,472,081.

Austgen, Kenneth J., to Pullman, Incorporated. Freight vehicle floor structure. 3,420,193, 1-7-69, Cl. 105-422.

Austin, Amory Earl; and Lee, Preston Pope, to Colgate-Palmolive Company. Continuous manufacture of detergent laundry bars. 3,434,974, 3-25-69, Cl. 252-138.

Austin, Arthur C.; Gorka, Edward R.; and Kaleta, Norbert W., to National Gypsum Company. Acoustic tile laminate. 3,480,104, 11-25-69, Cl. 181-33.

Austin, Arthur C.; and Kaleta, Norbert W., to National Gypsum Company. Process for forming an arcuate metal punch plate. 3,472,306, 10-14-69, Cl. 164-15.

Austin, Arthur L., to Wyandotte Chemicals Corporation. Stabilized polyether polyols. 3,437,694, 4-8-69, Cl. 260-611.5

Austin, Arthur L.; Hartman, Robert J.; and Patton, John T., Jr., to Wyandotte Chemicals Corporation. Phosphorus-containing reaction product of an acid of phosphorus, tetrahydrofuran and an alkylene oxide. 3,439,067, 4-15-69, Cl. 260-920.

Austin, Benjamin L., to Christensen Diamond Products Company. Diamond milling cutters. 3,468,583, 9-23-69, Cl. 299-89.

Austin, Curtis R. Railroad cross-tie and novel unit and insert therefor. 3,428,252, 2-18-69, Cl. 238-30.

Austin, Forrest L.; and Cornelius, Richard T., to Cornelius Company, The. Method for brewing coffee beverage. 3,482,989, 12-9-69, Cl. 99-71.

Austin, George E.: *See—*
Rawlings, Richard F.; and Austin, George E.,3,431,803.

Austin, George K., Jr. Air operated evacuation system. 3,452,751, 7-1-69, Cl. 128-277.

Austin, George K., Jr. Aspirator device. 3,485,246, 12-23-69, Cl. 128-277.

Austin, Glenn M.: *See—*
Seiferth, Oscar E.; and Austin, Glenn M.,3,432,980.

Austin, Harry W.; and Hess, William C., to Mine Safety Appliances Company. Protective hood. 3,458,864, 8-5-69, Cl. 2-5.

Austin, Howard B.; and Wait, John D., Jr., to Caterpillar Tractor Company. Bucket positioning kick-out controls for bucket loaders. 3,429,471, 2-25-69, Cl. 214-762.

Austin, James E.: *See—*
Hyltin, Tom J.; Hoffman, William F.; and Austin, James E.,3,454,906.
Mustian, William Roy, Jr.; and Austin, James,3,442,610.

Austin, James; and Ellis, John D., to Nordac Limited. Gas/liquid contacting devices and the operation thereof. 3,439,475, 4-22-69, Cl. 55-90.

Austin, Joe H. Tool for joining and separating pipe joints. 3,426,417, 2-11-69, Cl. 29-237.

Austin, Larry E.; and Titcomb, Francis R., to Simmonds Precision Products, Inc. Viscous dispensing system. 3,478,925, 11-18-69, Cl. 222-1.

Austin, Laurence H. Variable hydraulic control device. 3,470,908, 10-7-69, Cl. 137-625.4

Austin, Lawthan M., Jr. Device for applying dressing, medication and suction. 3,486,504, 12-30-69, Cl. 128-260.

Austin, Lee K.; and Mueller, Wilfred G., to Ingersoll-Rand Company. Machine performance indicating apparatus. 3,443,426, 5-13-69, Cl. 73-116.

Austin, Leonard Edmond. Control for an instantaneous fluid heating device. 3,460,459, 8-12-69, Cl. 99-282.

Austin, Lewis M.: *See—*
Best, William V.; Hughes, Roland L.; and Austin, Lewis M.,3,440,092.

Austin, Lewis M.; Denman, Robert R.; O'Dennell, Thomas P.; and Veres, Frank, to Owens-Illinois, Inc. Telescope mirror blank. 3,484,328, 12-16-69, Cl. 161-4.

Austin, Max M.: *See—*
Schell, Sidney L.; and Austin, Max M.,3,483,955.

Austin Motor Company Limited, The: *See—*
Hazlehurst, Philip Geoffrey; Hollis, Sydney G.; and Phillips, Bryan F., 3,459,407.

Austin, Russell A., 15% to Davis, Bill A., and Bevers, John Denzil. Shoulder guard for football players. 3,431,560, 3-11-69, Cl. 2-2.

Austin, Wayne M., to RCA Corporation. System for producing indications of time relationship of electrical signals. 3,473,052, 10-14-69, Cl. 307-269.

Austin, William C.; Conover, Lloyd H.; McFarland, James W.; and Morgan, Derek H., to Pfizer, Chas., & Co., Inc.Control of helminthiasis with a series of 2-[W-(2- thienyl)alkyl]-,2-[2-(2-thienyl)vinyl]-, and the corresponding isomeric 3-thienyl derivatives of thiazoline and 5,6-dihydro-4H-1,3-thiazine. 3,458,633, 7-29-69, Cl. 424-246.

Auston, Amory Earl; and Fischer, Charles Frederick, to Colgate-Palmolive Company. Detergent laundry bars. 3,481,880, 12-2-69, Cl. 252-138.

Auston, Vernon R. Material fastening apparatus. 3,476,301, 11-4-69, Cl. 227-25.

Australia, Commonwealth of: *See—*
Metcalfe, Kenneth A.; Gillespie, Frank C.; and Smith, Ian E., 3,476,935.

Australian Iron & Steel Pty. Limited: *See—*
Burn, Patrick Marion; and Nevison, Ronald Arthur, 3,477,529.

Australian Railway Equipment Supply Company Proprietary Limited: *See—*
Yard, William J., 3,430,579.
Yard, William J., 3,451,349.
Yard, William J., 3,461,810.

Autelca AG: *See—*
Meloni, Mario, 3,481,443.
Meloni, Mario, 3,483,956.

Autenrieth, Hans; and Wirries, Heinrich, to Kali Forschung Anstalt GmbH. Process for the electrostatic separation of the sylvite (KCl) component of a mineral. 3,477,566, 11-11-69, Cl. 209-9.

Auth, George R.: *See—*
Hui, William L. C.; and Auth, George R.,3,483,038.

Autic Developments Limited: *See—*
Young, Robert William, 3,460,723.

Auto Research Corporation: *See—*
Durnan, William E., 3,447,820.
Durnan, William E., 3,477,545.

Auto Transmissions Limited: *See—*
Abbott, Randle Leslie, 3,426,623.
Lamburn, Alan Salisbury; and Abbott, Randle Leslie, 3,459,285.
Lamburn, Alan Salisbury; Abbott, Randle Leslie; Whateley, Eric Albert; and Clark, George Kenneth, 3,472,098.

Auto Union G.m.b.H.: *See—*
Hertel, Karl, 3,433,501.

Auto-Lawn, Inc.: *See—*
Magda, Robert J.; and Giordano, Anthony, Jr., 3,446,165.

Auto-Safe Research and Development Corporation: *See—*
La Chiusa, Arturo Alfred, 3,436,981.

Auto-Soler Company: *See—*
Padovani, Henry R.; and Wright, John G., 3,478,946.

Autogiro Company of America: *See—*
Stanley, Paul H., 3,433,306.

Autographic Business Forms, Inc.: *See—*
Shoup, Robert W.; White, Roger F.; and Weller, Albert E., 3,464,350.

Automata Corporation: *See—*
Azure, Leo L., Jr., 3,445,942.

Automated Building Components, Inc.: *See—*
Heise, Richard E., 3,485,518.
Jureit, John C.; and Csakvary, Oscar, 3,443,513.
Jureit, John C., 3,472,118.
Jureit, John Calvin; and Coovert, Gilbert T., 3,427,055.
Jureit, John Calvin, 3,479,783.
Jureit, William E., 3,480,305.

Automated Handling Systems Inc.: *See—*
Paglee, Edgar H., 3,444,385.

Automated Machines Corporation: *See—*
Modglin, Donald D., 3,443,107.

Automated Measurements Corporation: *See—*
McCutcheon, Samuel R.; Belleville, Logan M.; and Ewin, William H., 3,461,386.

Automated Packaging Corporation: *See—*
Lerner, Bernard, 3,477,196.
Lerner, Hershey, 3,455,088.

Automated Towers Corporation: *See—*
Wagner, Wesley R.; and Baylon, Charles A., 3,439,815.

Automatic Cabinet Company: *See—*
Paper, Roland K.; and Smyers, Robert D., 3,438,380.

Automatic Car-Wash Distributors, Inc.: *See—*
McBurnett, Arthur D., 3,481,346.

Automatic Control Devices, Inc.: *See—*
Selgin, Paul J., 3,423,592.

Automatic Displays, Inc.: *See—*
Fontaine, John G., 3,434,007.
Fontaine, John G., 3,457,457.

Automatic Druckmaschinenfabrik Dr. W. Hinniger und Sohne: *See—*
Kaufmann, Curt, 3,426,680.

Automatic Electric Laboratories, Inc.: *See—*
Barrett, John M., 3,436,741.
Bold, Eugene R.; Krebs, Peter D.; and McKeon, Patrick E., 3,431,642.
Brown, George L., 3,466,650.
Cochran, Alfred S.; and Sikorski, Frank B., 3,466,401.
Cook, Bates C., Jr.; and Rovnyak, Richard M., 3,440,032.
Deptuch, Kazimierz J., 3,427,467.
Donnelly, James M., 3,466,622.
Duthie, Robert W.; and Thomas, Robert M., 3,487,173.
Engh, Howard A.; and Lord, John M., 3,480,743.
Fairley, David O., 3,480,882.
Fulenwider, John E., 3,445,824.
Hanna, David L.; and Zellmer, Neale A., 3,466,572.
Hartz, Joseph M.; Miknaitis, Sigitas; and Vogel, Carl W., 3,435,160.
Herrero, Jose Luis; and Willoner, Gideon, 3,473,142.
Holden, James R., 3,452,339.

Huntley, Christopher R., 3,434,066.
Huntley, Christopher R., 3,452,290.
Kelly, Michael J.; and Rekiere, Bernard J., 3,452,297.
Kelly, Michael J.; and Rekiere, Bernard J., 3,461,439.
Kowalik, Ronald F., 3,433,904.
Krylow, Konstanty E.; and Reimer, William A., 3,474,423.
Lebrun, Franz Joseph Ghislain, 3,440,356.
Lepianka, Stanley J., 3,487,347.
Lind, Paul U., 3,445,610.
Longwell, Thomas F., 3,435,157.
Matthews, John T., 3,484,561.
McGough, Gerald B., 3,472,974.
Mnichowicz, Donald A.; and Waco, Richard F., 3,480,735.
Orchard, Henry J.; and Lee, William N., 3,470,500.
Park, Bum Suh, 3,422,231.
Pena, Pascual J., 3,435,450.
Pena, Pascual J., 3,445,843.
Reimer, William A., 3,432,796.
Reimer, William A., 3,466,629.
Rice, Verner K., 3,436,746.
Risky, Frank A., 3,466,402.
Schildgen, Robert M.; and Young, John S., 3,440,355.
Sellenslagh, Emiel H. M.; and Van Hoeck, Willy F., 3,433,898.
Sherstiuk, Boris, 3,480,913.
Sidor, Edward F.; and Reimer, William A., 3,480,893.
van Bosse, John G., 3,461,247.
Vande Wege, John R., 3,427,405.
Vande Wege, John R., 3,452,159.
Wedmore, William R., 3,478,314.

Automatic Fire Alarm Company: *See*—
Cassell, Joseph L., 3,433,090.

Automatic Power, Inc.: *See*—
Dodge, Robert J., 3,458,710.
Dodge, Robert J., 3,473,084.

Automatic Radio Manufacturing Co., Inc.: *See*—
Johnson, Randall W., 3,477,637.
Santelmann, William F., Jr., 3,483,562.

Automatic Sprinkler Corporation of America:*See*—
Ault, Wayne E., 3,459,266.
Ault, Wayne Edward, 3,469,632.
Bovard, Robert M., 3,482,568.
Cupp, Charles D., 3,431,931.
Cupp, Charles D., 3,431,932.
Cupp, Charles D., 3,456,642.
Cupp, Charles D., 3,474,782.
Garrison, John B., 3,481,333.
Holloway, Robert L., 3,457,564.
Holloway, Robert L., 3,480,033.
Rawlings, John H., 3,486,169.
Robinson, Claude G.; and McClelland, Robert, 3,429,081.
Tam, Thomas K.; and Lea, James M., 3,468,345.
Vincent, Darrell M., 3,450,392.

Automatic Switch Company: *See*—
Churchill, Alan W., 3,463,443.
Churchill, Alan W.; and Freeman, Arthur W., 3,463,444.
Churchill, Alan W.; and Freeman, Arthur W., 3,463,445.
Kaemmer, Herbert H., 3,454,045.
Kryspin, Alfred J., 3,431,522.
Otto, Noel A., 3,430,991.
Spinelli, Frank P.; and Wiktor, Dominik M., 3,435,390.
Spinelli, Frank P.; and Wiktor, Dominik M., 3,441,700.
Spinelli, Frank P.; and Wiktor, Dominik M., 3,443,252.

Automatic Telephone & Electric Company Limited: *See*—
Hartley, David; Swanick , Brian Herbert; and Pate , Orran Terence, 3,444,527.
Sherlock, James F.; and Rankin, Kenneth Forbes, 3,440,624.

Automatic Timing & Controls, Inc.: *See*—
Denger, George P., 3,458,770.
Houpt, Grover K.; and Thomson, Edward T., 3,434,086.
Whittaker, Vernon, 3,443,245.

Automatic Tool Systems, Inc.: *See*—
Lopata, Herman, 3,441,716.

Automatic Sprinkler Corporation of America:*See*—
Brown, William H., 3,467,137.

Automation Development Corporation: *See*—
White, Frank F.; Tanno, Norman J.; and Chipps, Elmer T., 3,480,159.

Automation Devices, Inc: *See*—
Osojnak, Boris M., 3,424,303.

Automation Industries, Inc.: *See*—
Apple, Wayne R., 3,462,602.
Apple, Wayne R.; and Maley, Dale R., 3,483,721.
Brennan, William H.; and Wolf, Rudolph J., Jr., 3,481,189.
Collins, Jack T., 3,423,991.
Cowan, Gerald de G., 3,442,119.
Cowan, Gerald de G.; and Munger, Donald W., 3,482,434.
Gerstenberger, Egon, 3,428,933.
Guiles, Wesley L., 3,428,093.
Hastings, Joseph C., 3,474,237.
Maley, Dale R., 3,427,861.
Maley, Dale R., 3,433,052.
Maley, Dale R., 3,434,332.
Maley, Dale R., 3,451,254.
Nute, Philip R.; Serabian, Steven; and Weighart, Frederick, 3,427,867.
Smith, Albert H., 3,476,517.

Automation Products, Inc.: *See*—
Banks, William B., 3,449,940.
Banks, William B., 3,449,941.

Automation Technology, Inc.: *See*—
Critides, Charles G.; Scordato, Emil A.; and Hartnett, John J., 3,483,781.

Automobiles M. Berliet: *See*—
Sibeud, Jean-Paul, 3,448,609.
Vautier, Jean, 3,430,976.

Automotive Development Corporation: *See*—
Sullivan, Billie R., 3,471,132.

Automotive Pattern Co.: *See*—
Londal, Ralph K.; Schroeder, Lloyd A.; and Doolin, Wendell M., 3,461,948.

Automotive Products Company Limited: *See*—
Chouings, Leslie C., 3,479,094.
Ellis, Frederick E., 3,450,005.
Satchwell, Peter F., 3,447,651.

Automotive Rubber Company, Inc.: *See*—
Oiestad, Andrew, 3,427,006.

Autoquip Corporation: *See*—
Clarke, Jesse E., 3,476,267.

Autoscan, Inc.: *See*—
Pelta, Edmond R., 3,477,024.

Autosearch, Inc.: *See*—
Elliott, Louis J., 3,425,623.

Autoset Corporation: *See*—
Mc Gregor, Donald T.; and Lodjic, Carl L., 3,482,663.

Autrey, Evert A., to Santa Barbara Research Center. Detector array with electrode connections. 3,426,198, 2-4-69, Cl. 250-83.

Autrey, Samuel W., to United States of America, mesne. Device for simulating progressively delayed outputs linear hydrophone array. 3,484,738, 12-16-69, Cl. 340-5.

Autry, Wallace M.; and Chapman, Clifford P., to United States of America, Army. Photomechanical color proving process. 3,432,297, 3-11-69, Cl. 96-27.

Auvil, Carroll K. Remote control and indicator system with control maintained through a remote variable frequency source. 3,486,090, 12-23-69, Cl. 318-18.

Auvil, Harvey S., to Allied Chemical Corporation. Disentrainment of coal particles in pneumatically charged coke ovens. 3,438,867, 4-15-69, Cl. 201-40.

Auville, Calvin; and Gross, Johann, to Celanese Corporation. Warp knit terry fabrics. 3,434,306, 3-25-69, Cl. 66-86.

Auville, Calvin; and Gross, Johann, to Celanese Corporation. Method of warp knitting with textured yarn. 3,442,099, 5-6-69, Cl. 66-86.

Auville, Calvin: *See*—
Porter, Stephen L.; Auville, Calvin; and Winch, Allen R.,3,430,465.

Auxier, Thomas A., to General Electric Company. Cooled turbine nozzle for high temperature turbine. 3,475,107, 10-28-69, Cl. 415-175.

Auzins, Raimunds; Sigman, Earl H.; and Schneider, Alfred, to United Industrial Syndicate, Inc. System for handling cargo lighters and cargo hatch covers aboard ship. 3,469,716, 9-30-69, Cl. 214-15.

Auzins, Raimunds; and Yendrich, Stephen P., Jr., to Morgan Engineering Company. Shipboard gantry crane and hoist mechanism therefor. 3,467,263, 9-16-69, Cl. 214-15.

Avakian, Emik A.: *See*—
Greenblum, Carl; Buegler, Robert J.; McCarroll, Joseph F.; Avakian, Emik A.; and Granbery, John,3,484,748.

Avant, William W., to Garrett Corporation, The. Regulator valve mechanism. 3,433,251, 3-18-69, Cl. 137-488.

Avanti R & D, Inc.: *See*—
Martino, Louis J., 3,475,756.

Avco Broadcasting Corporation: *See*—
Rockwell, Ronald J., 3,454,790.

Avco Corporation: *See*—
Bender, Paul H.; and Vaughan, David A., 3,430,235.
Bernert, Robert E.; Hatch, Albert M.; and Stekly, Zdenek J. J., 3,427,391.
Bing, John H.; Vagedes, Lawrence J.; Luthman, Paul A.; and Colwill, Herbert W., 3,458,088.
Coleman, Ronald H.; and Nigro, Frank D., 3,453,853.
De Klotz, Ralph E., 3,442,083.
Doss, Robert J., 3,457,513.
Downey, Wolcott M., 3,452,366.
Dropkin, David; O'Connor, Thomas J.; Cass, Le A.; and Comfort, Edward H., 3,453,880.
El Bindari, Ahmed, 3,433,892.
El Bindari, Ahmed, 3,471,925.
Gauld, Godfrey R., 3,479,531.
Gri, Norman J.; and Yon, Eugene T., 3,483,096.
Guarino, Henry R., 3,452,739.

Guarino, Henry R., 3,465,746.
Hals, Finn A., 3,439,196.
Hals, Finn A., 3,449,602.
Hebert, John R.; and Waite, Warren A., 3,430,572.
Hohenberg, Rudolph, 3,465,581.
Holmes, John F., 3,450,984.
Hudson, Marvin E., 3,453,892.
Janes, George S.; and Levy, Richard H., 3,441,756.
Jensen, Gerald A., 3,440,079.
Jones, Robert T., 3,452,738.
Junker, Arnold E., 3,430,967.
Kaiser, Robert, 3,483,968.
Litant, Irving; Pratt, Ralph C.; and Allen, Gerald L., 3,475,640.
Louis, Jean F., 3,487,240.
Lynch, Thomas J., 3,428,303.
Maslan, Frank, 3,471,723.
Mertens, William J., 3,485,460.
Midkiff, James C., 3,487,404.
Moellmann, Heinz, 3,472,487.
Mossman, Henry L.; and McDonald, Douglass A., 3,422,578.
Park, Jerald L., 3,439,923.
Ragen, Jack R.; and Loughry, Donald J., 3,457,414.
Ressler, Erhard O., 3,428,831.
Rishton, Michael L., 3,456,444.
Rogen, Neil E.; and Hill, Russell J., 3,440,997.
Rogen, Neil E.; and Hill, Russell J., 3,483,748.
Rogen, Neil E.; and Hill, Russell J., 3,483,752.
Rosensweig, Ronald E., 3,483,969.
Shekro, Christe M., 3,486,097.
Smith, Emile G., 3,470,691.
Specht, Herbert H., 3,442,741.
Spehoger, Stevan W., 3,436,659.
Stein, Wolfgang J.; and Straniti, Salvatore, 3,424,240.
Stott, Ted; Gunyou, Lyman J.; Frushour, George V.; and Groeneveld, Wilbur E., 3,425,194.
Vagedes, Lawrence J.; and Bing, John H., 3,430,818.
Walters, Richard E., 3,478,869.
Weikel, Anthony M., 3,447,161.
Wissel, Francis A., 3,423,728.
Young, Paul E.; and Gunyou, Lyman J., 3,450,138.
Zar, Jacob L., 3,458,842.

Avco Manufacturing Corporation: *See*—
Bez, Robert V., 3,486,026.

A. V. Corporation, The, N.V.: *See*—
Dimitracopoulos, Panayotis C., 3,480,356.

Avdel Limited: *See*—
Jeal, Harvey Philip, 3,426,375.

Avedissian, Michael K., to Western Electric Company, Incorporated. Air bearing support for strand material holder. 3,486,677, 12-30-69, Cl. 228-3.

Avellone, Richard C., to Republic Steel Corporation. Electroplating apparatus. 3,468,783, 9-23-69, Cl. 204-207.

Avera, William W., to Bahnson Company, The. Suction flute mounted wiper device for drafting rolls. 3,431,717, 3-11-69, Cl. 57-34.5

Avera, William W., to Bahnson Company, The. Air filter. 3,470,680, 10-7-69, Cl. 55-497.

Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich. Full-revolving bridge cranes. 3,459,311, 8-5-69, Cl. 212-10.

Averill, Eugene F., to Titus Manufacturing Corporation. Combination diffuser and false ceiling suspension systems. 3,440,947, 4-29-69, Cl. 98-40.

Averill, Robert M., Jr., to Bell Telephone Laboratories, Incorporated. Time division key telephone system. 3,420,961, 1-7-69, Cl. 179-18.

Averill, William D., 45% to Clifton, Richard, and 45% to Doepke, John H. Wire coiling and clamping fastener. 3,431,546, 3-4-69, Cl. 339-269.

Aversa, Joseph. Miniaturized telescopic marking instrument. 3,469,927, 9-30-69, Cl. 401-95.

Aversten, Karl J., to AGA Aktiebolag. Protective ground arrangement for contact line poles. 3,427,468, 2-11-69, Cl. 307-94.

Avery, Carl F., Jr.; Pearson, Ernest A.; and Winters, Lloyd V., to Medical Supply Company, mesne. Rotary type swab assembling machine. 3,461,535, 8-19-69, Cl. 29-208.

Avery, Carl Frederick; and Brewer, Robert J., to Medical Supply Company. Swabbing unit. 3,450,129, 6-17-69, Cl. 128-2.

Avery, Donald H.: *See*—
Ehrreich, John E.; and Avery, Donald H., 3,476,530.

Avery, Edward N. Solar energy water purification apparatus. 3,441,482, 4-29-69, Cl. 202-175.

Avery, George E., to American Micro-Systems, Inc. Multifunction circuit device. 3,478,229, 11-11-69, Cl. 307-303.

Avery, Gilbert H. Room air distribution and control damper means in an air conditioning system. 3,433,295, 3-18-69, Cl. 165-35.

Avery, Howard W., to General Electric Company. Pneumatic readout indicator. 3,484,968, 12-23-69, Cl. 40-28.

Avery, John R., to Bell Telephone Laboratories, Incorporated. Asynchronous data transmission system with error detection and retransmission. 3,452,330, 6-24-69, Cl. 340-172.5

Avery Products Corporation: *See*—
Avery, Ray S., 3,466,218.
Dinter, Herbert, 3,483,059.
Moline, Norman L.; and Strand, John R., 3,464,883.

Avery, Ralph L., to Carborundum Company, The. Oscillating cut-off machine. 3,469,485, 9-30-69, Cl. 83-491.

Avery, Ray S., to Avery Products Corporation. Article for multiplicate marking. 3,466,218, 9-9-69, Cl. 161-33.

Avery, W. & T., Limited: *See*—
Knight, Douglas Frank, 3,477,017.
Leonowicz, Jan, 3,446,299.

Avery, William F., to Union Carbide Corporation. Isobaric process for molecular sieve separation of normal paraffins from hydrocarbon mixtures. 3,422,005, 1-14-69, Cl. 208-310.

Avery-Hardoll Limited: *See*—
Absolon, Eric W.; and Bowman, George H., 3,478,927.
Petyt, Colin Roderick; and Phillips, Hugh Edmund, 3,420,409.
Petyt, Colin Roderick, 3,429,480.
Petyt, Colin Roderick; and Phillips, Hugh Edmund, 3,486,662.

Avesta Jernverks Aktiebolag: *See*—
Johansson, Johan Ingvar, 3,456,831.

Avesta Jernverks Aktiebolog: *See*—
Backstrom, Arne Ivar; Henrikson, Sture; and Levin, Per Erik, 3,479,181.

Aveyard, Norman; and Bull, David George, to English Electric Company Limited, The. Toroidal winding structures. 3,451,023, 6-17-69, Cl. 336-180.

Avi Sun Corporation: *See*—
Jezl, James L.; Khelghatian, Habet M.; and Hague, Louise D., 3,441,551.

Aviander, Stig, to Allmanna Svenska Elektriska Aktiebolaget. Static time delay relay. 3,431,471, 3-4-69, Cl. 317-142.

Aviation Electric Limited: *See*—
Kwok, Clyde Chi Kai, 3,461,897.

Avicola, Richard: *See*—
Voigt, Du Monte Otto; and Avicola, Richard, 3,467,770.

Avignon, Michel Louis, to International Standard Electric Corporation. Analog information storing device. 3,430,225, 2-25-69, Cl. 340-347.

Avignon, Michel Louis, to International Standard Electric Corporation. Automatic frequency acquisition circuit for a phase locked loop type of synchronizing system. 3,470,488, 9-30-69, Cl. 331-4.

Avila, Francisco C.: *See*—
Mohrman, Donald W.; and Avila, Francisco C., 3,456,338.

Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich. Collapsible solar photoelectric battery. 3,460,992, 8-12-69, Cl. 136-89.

Avina, Jack, to RCA Corporation. Frequency modulation detector circuit providing balanced detection over a wide range of signal levels. 3,462,694, 8-19-69, Cl. 329-110.

Avins, Jack, to Radio Corporation of America. Automatic frequency control apparatus especially suitable for integrated circuit fabrication. 3,444,477, 5-13-69, Cl. 331-8.

Avins, Jack; and Craft, Jack, to RCA Corporation. Integrated amplifier circuit especially suited for high frequency operation. 3,467,909, 9-16-69, Cl. 330-19.

Avins, Jeremiah Yl; and Miller, James C., to RCA Corporation. Rolling anvil member control means for serial printer. 3,459,287, 8-5-69, Cl. 197-1.

Aviolanda Maatschappij voor Vliegtuigbouw N.V.: *See*—
Booij, Jan G.; and Algra, Halbe, 3,463,292.
van Marle, Nicolaas Gradus Jan Willem, 3,484,883.

Avions Marcel Dassault: *See*—
Deplante, Henri, 3,426,983.
Deplante, Henri, 3,466,062.
Deplante, Henri, 3,481,562.
Deplante, Henri, 3,486,773.

Avis, John M.; and Dorman, Hugh H., to Case, J. I., Company. Tilt mechanism for mast assembly. 3,478,910, 11-18-69, Cl. 214-672.

Avis, Leonard E.; and Evans, Donald B., to Martin-Marietta Corporation. Thermoelectric hot shoe contacts. 3,444,005, 5-13-69, Cl. 136-205.

Avisun Corporation: *See*—
Bohrer, Byron B.; and Kurtz, Stewart S., Jr., 3,431,249.
Boyer, Jackson S.; and Didot, Francois E., 3,447,883.
Dougherty, Gerald; and Hall, Lewis W., Jr., 3,442,833.
Jezl, James L., 3,441,434.
Khelghatian, Habet M.; Jezl, James L.; and Hague, Louise D., 3,442,978.
Schwartz, Harold A., 3,470,928.

AVM Corporation: *See*—
Moldovan, Michael T.; Drew, Eugene Hodson, deceased; and Robinson, Sherwood Drew; administrators, 3,430,559.

Avner, David Alan, to Girling Limited. Electric switches. 3,427,415, 2-11a69, Cl. 200-76.
Avnet, Inc.: *See—*
Fray, Kingsley, 3,470,560.
Trainor, Charles C., 3,478,158.
Avny, Yair: *See—*
Zilkha, Albert; and Avny, Yair,3,441,526.
Avolio, Donald R., to Phillips Petroleum Company. Double layer tape seal on container slit opening. 3,452,919, 7-1-69, Cl. 229-17.
Avon Products, Inc.: *See—*
Motsavage, Vincent A.; and Kinney, James F., 3,453,056.
Avon Rubber Company Limited: *See—*
Kaiser, Herbert, 3,483,784.
Avondoglio, Leo, to General Dynamics Corporation. Control means for air driven turbines. 3,469,633, 9-30-69, Cl. 170-160.16
Avot, Jean-Pierre, to Societe Anonyme Anciens Etablissements Walton & Place. Manufacture of corrugated cardboard. 3,432,372, 3-11-69, Cl. 156-151.
Avrea, Walter C. Visual oil level indicator. 3,453,886, 7-8-69, Cl. 73-323.
Avrea, William H. Timed dispenser of liquid and solid food for animals. 3,450,101, 6-17-69, Cl. 119-51.11
Avril, Jean, to Societe Anonyme Vallourec. Tipping doors. 3,439,453, 4-22-69, Cl. 49-204.
Avsan, Oleg; Noren, Lars-Olof; Sparrendahl, Gunnar Erik William; and Svensson, Ake Bertil Fredrik, to Telefonaktiebolaget I M Ericsson. Means for activating a certain instruction out of a plurality of instructions stored in the instruction memory of a computer. 3,475,732, 10-28-69, Cl. 340-172.5
Avtges, James A.: *See—*
Cahill, Gerald F.; Avtges, James A.; and Hundt, Donald D.,3,444,281.
A. Vuyk en Zonen's Scheepswerven N.V.:*See—*
van der Werff, Bartele, 3,439,642.
Avxo Corporation: *See—*
Ressler, Erhard O., 3,436,138.
Awada, Etsuo: *See—*
Negoro, Harutada; Awada, Etsuo; Ikegami, Yoshihiko; Akagi, Saburo; and Matsui, Katsuaki,3,477,995.
Award Metals Company: *See—*
Elconin, William B., 3,423,889.
AWB Manufacturing Co., Inc.: *See—*
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I., 3,427,076.
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I., 3,427,077.
Whitlock, Beauford I., 3,456,288.
Aweimrine, Kamal Y. Mechanical lock cylinder. 3,436,973, 4-8-69, Cl. 74-89.15
Axe, Daniel E., to Edwards, O. M., Company, Inc., The. Safety seal for sliding doors. 3,461,611, 8-19-69, Cl. 49-483.
Axe, Roy: *See—*
Pounder, Donald Whitworth; and Axe, Roy,3,483,073.
Axelrod, Herbert R., to T. F. H. Publications, Inc. Manifold valve assembly. 3,459,221, 8-5-69, Cl. 137-608.
Axelrod, Herbert R., to T.F.H. Publications, Inc. Flip-top aquarium filter. 3,483,985, 12-16-69, Cl. 210-169.
Axelrood, Seymour L.; and Lajiness, Wayne G., to Wyandotte Chemicals Corporation. Tetrahydrofuran-ethylene oxide polyether urethane-urea polymers. 3,425,999, 2-4-69, Cl. 260-77.5
Axelson, Allen L., to Bell Telephone Laboratories, Incorporated. Arrangement for determining bit position of least significant bit having a predetermined value. 3,430,208, 2-25-69, Cl. 340-172.5
Axelson, Hans A.: *See—*
Thoren, Olle G.; and Axelson, Hans A.,3,477,240.
Axelsson, Rolf Ingemar, to Stal Refrigeration Aktiebolag. Means for separating a liquid, such as oil, from a compressed gas. 3,451,198, 6-24-69, Cl. 55-430.
Axford, Kenneth L., to Weston Instruments, Inc. AC frequency to DC transducer. 3,471,792, 10-7-69, Cl. 329-192.
Axmark, Roger E., to Honeywell Inc. Control apparatus with redundant features. 3,463,600, 8-26-69, Cl. 431-16.
Axsom, James F.: *See—*
McLean, Robert H.; Nolan, Melvin E.; and Axsom, James F.,3,452,490.
Ayabe, Masaaki: *See—*
Hayashi, Chisayo; Chiba, Yusuke; Tanaka, Eiji; Ochi, Shigeyuki; Yanagisawa, Yuzuru; and Ayabe, Masaaki,3,469,294.
Ayad, Kamal Naguib, to Monsanto Chemicals Limited. Herbicidal composition and method employing thioalkylthiobenzothiazoles. 3,455,676, 7-15-69, Cl. 71-90.
Ayaki, Kazuo: *See—*
Ikeda, Osamu; Ayaki, Kazuo; and Ohya, Haruhiko,3,472,891.
Ayala, Ariel R., to Wayne Manufacturing Company. Variable gutter broom. 3,436,782, 4-8-69, Cl. 15-87.
Ayala, Carl, to Glass, Marvin, & Associates. Doll with free moving head. 3,426,476, 2-11-69, Cl. 46-164.
Ayala, Carl: *See—*
Mojonnier, Albert B.; and Ayala, Carl,3,487,139.
Ayer, Donald R.; and Lowe, William R., to Sanders Associates, Inc. Slotted strip transmission line using probe to measure characteristics of the line. 3,470,469, 9-30-69, Cl. 324-95.
Ayer, Ronald M.; and Waldrop, Robert L., to Reynolds Metals Company. Package construction. 3,425,544, 2-4-69, Cl. 206-45.33
Ayer, William H., to Buzzards Corporation, The. Launching apparatus. 3,469,444, 9-30-69, Cl. 73-170.
Ayers, Buell O., to Phillips Petroleum Company. Chromatographic method of analysis and apparatus therefor. 3,422,664, 1-21-69, Cl. 73-23.1
Ayers, Buell O.; and Sanford, Richard A., to Phillips Petroleum Company. Identification of chromatographic peaks. 3,438,242, 4-15-69, Cl. 73-23.1
Ayers, Buell O.: *See—*
Sanford, Richard A.; and Ayers, Buell O.,3,431,770.
Sanford, Richard A.; and Ayers, Buell O.,3,457,704.
Sanford, Richard A.; and Ayers, Buell O.,3,483,731.
Ayers, David T., Jr., to Kelsey-Hayes Company. Skid control system including hydraulic modulating valve. 3,486,800, 12-30-69, Cl. 303-21.
Ayers, Joseph W., to Agrashell, Inc. Plywood glue extender of densified walnut shell flour and compositions containing it. 3,429,770, 2-25-69, Cl. 161-262.
Ayers, Orval E.; Huskins, Chester W.; and Carter, Herbert A., to United States of America, Army. Method of curing epoxy resins employing difluoroamino compounds as catalysts. 3,432,444, 3-11-69, Cl. 260-2.
Ayers, Orval E.; Huskins, Chester W.; and Fant, Bert T., to United States of America, Army. Hypergolic method of operating a bipropellant liquid reaction motor using difluoroamino compounds. 3,442,081, 5-6-69, Cl. 60-212.
Ayers, Osborn: *See—*
Binkley, Mark E.; and Ayers, Osborn,3,449,141.
Ayers, Osborn, to Johns-Manville Corporation. Decorative products and process for making same. 3,437,548, 4-8-69, Cl. 161-41.
Ayers, Peter, to British Aluminium Company Limited, The. Apparatus for continuously casting materials. 3,473,600, 10-21-69, Cl. 164-283.
Ayers, Raymond I., to United States of America, Navy. Heat shield for missile flare. 3,461,802, 8-19-69, Cl. 102-87.
Ayers, Robert C., Jr.: *See—*
Williams, Robert E.; Ayers, Robert C., Jr.; and Cooke, Claude E., Jr.,3,444,930.
Ayerst, Ronald Percy; and Billings, Peter Robert. Sorting fibrous material. 3,472,371, 10-14-69, Cl. 209-2.
Aygun, Niyazi; and Krebs, Frederick G., to National Cash Register Company, The. Lubrication device for electrostatic actuators. 3,454,137, 7-8-69, Cl. 184-14.
Aykanian, Ardashus A., to Flexible Plastic Straw Corporation. Combination drinking straw and spoon. 3,461,554, 8-19-69, Cl. 30-141.
Aykanian, Ardashus A.; and Hardy, Edgar E., to Monsanto Company. Extrusion apparatus. 3,451,103, 6-24-69, Cl. 18-12.
Aykanian, Ardashus A.; and Shelby, Richard K., to Monsanto Company. Method for selective absorption of foaming agent in foaming plastic articles. 3,424,826, 1-28-69, Cl. 264-48.
Aylesbury Automation Limited: *See—*
Rose, Stanley, 3,431,610.
Aylesworth, Robert D.: *See—*
Boehringer, Raymond H.; Aylesworth, Robert D.; and Utz, Walter E.,3,472,775.
Boylan, Jack B.; Aylesworth, Robert D.; and Boehringer, Raymond H.,3,485,754.
Aylesworth, Robert D., to Emery Industries, Inc. Lubricant and method for lubricating a piston engine. 3,481,873, 12-2-69, Cl. 252-51.5
Aylikci, Veli; and Doering, Donald R., to National Cash Register Company, The. Stepping motor control including damping. 3,466,520, 9-9-69, Cl. 318-138.
Aylikci, Veli; and Rosener, Harvey J., to National Cash Register Company, The. Rotary stepping motors and control systems therefor. 3,466,518, 9-9-69, Cl. 318-138.
Ayling, Anthony John: *See—*
Hedger, Denyer Edward; and Ayling, Anthony John,3,458,767.
Ayling, Robert W., to Westinghouse Electric Corporation. Refrigerant compressor having built-in liquid return protection. 3,486,687, 12-30-69, Cl. 230-206.
Aylott, David H., to Eylure Limited. Device for testing artificial eyelashes. 3,483,637, 12-16-69, Cl. 35-59.
Aylott, Eric Victor, to Eylure Limited. Display devices for artificial fingernails. 3,485,344, 12-23-69, Cl. 206-45.14
Ayranto, Roy, to International Harvester Company. Material unloader. 3,423,030, 1-21-69, Cl. 239-681.
Ayres, Charles A.; and Morris, Carl S., to Phillips Petroleum Company. Introducing the feed to a distillation zone mixed with the reflux. 3,471,374, 10-7-69, Cl. 203-2.
Ayres, Reginald J., to General Electric Company. Electric incandescent lamp and mount structure with leading-in wires having inturned offset inner ends. 3,475,641, 10-28-69, Cl. 313-271.

Ayres, Richard H.; and Lieder, Gaylerd M., to Bemis Company, Inc. Baler sealer apparatus. 3,425,183, 2-4-69, Cl. 53-76.
Ayres, Richard H.; and Lieder, Gaylerd M., to Bemis Company, Inc. Bag feeding and filling apparatus. 3,469,367, 9-30-69, Cl. 53-187.
Ayres, Robert F., to Consolidated Foods Corporation, mesne. Additive for phosphate coating solution. 3,420,715, 1-7-69, Cl. 148-6.16
Ayres, Robert Underwood; and McKenna, Richard Phillip. Moving sidewalk. 3,465,689, 9-9-69, Cl. 104-25.
Ayres, Waldemar A., to Becton, Dickinson and Company. Apparatus and method for eliminating gases from a thermometer blank. 3,456,487, 7-22-69, Cl. 73-1.
Ayres, Waldemar A., to Becton, Dickinson and Company. Apparatus and method for eliminating gases from a thermometer blank. 3,456,488, 7-22-69, Cl. 73-1.
Ayres, Waldemar A., to Becton, Dickinson and Company. Flexible conduit for laser surgery. 3,467,098, 9-16-69, Cl. 128-303.1
Ayres, Waldemar A., to Becton, Dickinson and Company. Clinical thermometer with non-metallic liquid medium. 3,469,452, 9-30-69, Cl. 73-371.
Ayres, Waldemar A., to Dickinson, Becton and Company. Marking of clinical thermometers. 3,481,725, 12-2-69, Cl. 65-30.
Ayres, William R.: *See—*
Kohls, Norman R.; Nykl, Clarence A., Jr.; and Ayres, William R.,3,480,718.
Ayres, William R., to Hammond Corporation. Electrical musical instrument animator of the scanned progressive phase shift type. 3,474,181, 10-21-69, Cl. 84-1.25
Ayukawa, Yukitada; and Kozu, Isao, to Matsushita Electric Industrial Co. Ltd. Tape recorder. 3,469,800, 9-30-69, Cl. 242-190.
Ayvazian, Ralph A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,472,080.
Azakami, Shinji; Kawakami, Toshio; and Takemoto, Yoshiharu, to Toyo Koatsu Industries, Incorporated. Process for producing ammonium sulfamate. 3,484,193, 12-16-69, Cl. 23-114.
Azarian, Martin V. Metal powers coated with silica and a water soluble acetate. 3,454,513, 7-8-69, Cl. 260-23.
Aziende Chimiche Riunite Angelini Francesco A.C.R.A.F. S.p.A.: *See—*
Palazzo, Giuseppe, 3,428,634.
Palazzo, Giuseppe, 3,458,514.
Palazzo, Giuseppe, 3,470,194.
Palazzo, Giuseppe, 3,470,298.
Aziende Colori Nazionali Affini ACNA S.p.A.: *See—*
Carati, Luigi; Moiso, Ugo; and Craia, Giulio, 3,429,870.
Crotti, Argento, 3,453,294.
Crotti, Argento; and Merlo, Fabrizio, 3,459,729.
Mangini, Angelo; Mazzanti, Germana; and Tundo, Antonio, 3,454,551.
Moiso, Ugo; and Papa, Sisto Sergio, 3,475,405.
Aziz, Rahmat A., to International Business Machines Corporation. Data detector for magnetic storage device. 3,428,904, 2-18-69, Cl. 328-110.
Azoplate Corporation: *See—*
Davenport, Ralph M., Jr.; Kratzer, Alfred L.; Sapp, Robert W.; Thomas, William T.; and Weichardt, Heinz H., 3,468,660.
Degenhardt, Karl-Heinz; and Marx, Gerhard, 3,446,649.
Hertenstein, Walter, 3,429,763.
Lind, Erwin, 3,440,045.
Ruckert, Hans, 3,455,914.
Stroszynski, Joachim, 3,431,139.
Uhlig, Fritz; Lind, Erwin; and Steppan, Hartmut, 3,438,778.
Azorlosa, Julian Louis, to GAF Corporation. Crosslinked interpolymers. 3,448,088, 6-3-69, Cl. 260-78.5
Azorlosa, Julian Louis; Williams, Earl Pierce; and Field, Nathan D., to GAF Corporation. Novel interpolymers useful as thickening agents. 3,436,378, 4-1-69, Cl. 260-78.5
Azoulay, Adrien; and Teitgen, Jean, to Societe Nationale des Petroles d'Aquitaine. Polymerisation of conjugate dienes. 3,445,435, 5-20-69, Cl. 260-94.3
Aztec Industries, Inc.: *See—*
Bybee, Roger W.; and Phyfe, Lawson M., 3,474,228.
Reynolds, Louis J., Jr., 3,453,413.
Azuma, Hiroji: *See—*
Azuma, Hiroshi; and Azuma, Hiroji,3,464,281.
Azuma, Hiroshi; and Azuma, Hiroji. Friction-type automatic variable speed means. 3,464,281, 9-2-69, Cl. 74-200.
Azure, Leo L., Jr., to Automata Corporation. Multiple printout test grading machine. 3,445,942, 5-27-69, Cl. 35-48.
Azzariti, Pietro. Machine for very rapidly pressing ball pen points and other articles starting from a metallic strip or wire. 3,452,693, 7-1-69, Cl. 113-113.
Azzariti, Pietro, to Real Patentauswertungs Anstalt. Method for the finishing of rough points for ball point pens. 3,463,106, 8-26-69, Cl. 113-32.
Azzariti, Pietro. Process for manufacturing ball pen points by extrusion and drawing starting from a wire. 3,470,603, 10-7-69, Cl. 29-441.
B & B Engineering Company: *See—*
Broersma, Robert J., 3,426,359.
B & H Tool and Machine Corporation: *See—*
Huser, Robert R.; Huser, Joseph L.; and Leonard Herman A., 3,448,657.
B & K Machinery International Limited: *See—*
Wilkinson, Dwight Martin, 3,437,321.
B & M Automotive, Inc.: *See—*
Spar, Donald; and Spar, Robert B., 3,455,422.
B & S Machinery Company: *See—*
Barbee, Walter J., 3,434,308.
B & S Tool Company, Inc.: *See—*
Elyosius, Peter V.; and Pikor, Jerome W., 3,422,256.
B & W Incorporated: *See—*
Solum, James R., 3,421,586.
Solum, James R.; and Park, Robert O., 3,424,245.
Solum, James R., 3,428,219.
B-D Laboratories, Inc.: *See—*
Brewer, John H., 3,483,089.
Baade, Otto, to International Standard Electric Corporation. Circuit arrangement to supervise telecommunication and particularly telephone lines. 3,467,787, 9-16-69, Cl. 179-79.
Baade, Otto; and Gasser, Lorenz, to International Standard Electric Corporation. Voice-frequency key dialling facility. 3,482,051, 12-2-69, Cl. 179-16.
Baade, Richard K., to Bausch & Lomb Incorporated. Lens centration mounting process and apparatus. 3,427,703, 2-18-69, Cl. 29-406.
Baader, Herbert: *See—*
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert,3,465,053.
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert,3,465,054.
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut, to Knapsack Aktiengesellschaft. Process for the joint manufacture of 2-chlorobutadiene-(1,3) and 1-chlorobutadiene-(1,3). 3,435,083, 3-25-69, Cl. 260-655.
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut, to Knapsack Aktiengesellschaft. Process for the joint manufacture of 2,2,3- and 1,3,3-trichlorobutanes. 3,445,359, 5-20-69, Cl. 204-163.
Baak, Nils Tryggve E. A., to Owens-Illinois, Inc. Glass compositions, method and articles. 3,458,330, 7-29-69, Cl. 106-39.
Baar, Heinz-Joachim: *See—*
Helle, Bernd-Heinz, 3,465,529.
Baarson, Robert E.; and Du Brow, Paul L., to Armour Industrial Chemical Company, mesne. Flotation separation of metallic sulfide ores. 3,425,551, 2-4-69, Cl. 209-166.
Baarson, Robert E.; Du Brow, Paul L.; and Ray, Charles L., to Armour Industrial Chemical Company, mesne. Flotation separation of metallic sulfide ores. 3,425,550, 2-4-69, Cl. 209-166.
Baarson, Robert E.; and Ray, Charles L., to Armour Industrial Chemical Company. Flotation of bulk concentrates of molybdenum and copper sulfide minerals and separation thereof. 3,426,896, 2-11-69, Cl. 209-167.
Baarson, Robert E.: *See—*
Sebba, Felix; Jonaitis, Charles W.; Ray, Charles L.; and Baarson, Robert E.,3,476,553.
Baasner, Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Photographic printing apparatus. 3,469,918, 9-30-69, Cl. 355-97.
Baatrup, Johannes Vagn, to Danfoss A/S. Hydraulic valve unit for use in hydraulic systems. 3,454,028, 7-8-69, Cl. 137-102.
Baba, Hideshige, to Tokyo International Products, Inc. Process of printing on soap. 3,432,325, 3-11-69, Cl. 117-12.
Baba, Nobuyoshi: *See—*
Tajima, Sakae; Baba, Nobuyoshi; Matsuyama, Shin; and Ono, Masabumi,3,445,349.
Baba, Yasutaka: *See—*
Suzuki, Shigeru; and Baba, Yasutaka,3,445,652.
Babany, Lucien; and Bernadet, Didier. Frequency control system with search sweep. 3,421,104, 1-7-69, Cl. 331-4.
Babayan, Vigen K.; and Barsky, George, to Drew Chemical Corporation. Synthetic therapeutic fat. 3,450,819, 6-17-69, Cl. 424-307.
Babb, John J., to Delta Exploration Company, Inc. Marine seismic cable support system. 3,424,267, 1-28-69, Cl. 181-0.5
Babb, John J., to Delta Exploration Company, Inc. Shallow water seismic prospecting cable. 3,435,410, 3-25-69, Cl. 340-7.
Babbitt, Norman S.: *See—*
McGuire, James F.; and Babbitt, Norman S., 3,439,281.
Babbitt, Norman S.: *See—*
McGuire, James F.; and Babbitt, Norman S.,3,439,281.
Babcock & Wilcox Canada Ltd.: *See—*
Green, Richard Allan, 3,483,848.
Babcock & Wilcox Company, The: *See—*
Ammon, Johannes H.; Schlichting, John; and Sprague, Theodore S., 3,437,077.
Blaze, Joseph E., Jr., 3,485,611.
Coulter, Earl E.; Johnson, Lowell E.; and Modrak, Thomas M., 3,435,598.
Edgecombe, David A., 3,455,137.
Greenberg, Myron L.; and Porath, Gordon H., 3,424,022.

Greenberg, Myron L.; and Porath, Gordon H., 3,430,318.
Greenberg, Myron L., 3,455,122.
Greenberg, Myron L.; and Kolesar, Daniel J., 3,455,155.
Greenberg, Myron L., 3,466,951.
Greenberg, Myron L.; and Porath, Gordon H., 3,466,952.
Hurst, Thomas B.; and Darlinger, Edward P., 3,420,508.
Ives, Kenneth D.; and Rastogi, Vijay, 3,433,060.
Jabsen, Felix S., 3,462,345.
Kielas, Robert J.; and Porath, Gordon H., 3,461,752.
Kolesar, Daniel J., 3,464,654.
Kreider, Edward W.; and Lavey, John A., 3,479,994.
Markant, Henry P.; Phillips, Norman D.; and Shah, Indravadan S., 3,471,249.
Phillips, Norman D., 3,462,343.
Pirsh, Edward A.; and Sage, Warnie L., 3,454,383.
Poole, Arthur J., 3,455,641.
Porath, Gordon H., 3,425,168.
Profita, Gerald A., 3,422,517.
Rickenborde, Gary H., 3,477,341.
Simon, Joseph E., 3,426,176.
Sprague, Theodore S., 3,447,509.
Sprague, Theodore S., 3,483,824.
Stump, Paul E., 3,433,038.
Vaneman, Gerald L.; and Schanck, James L., 3,486,361.
Walker, James B., Jr., 3,468,266.

Babcock & Wilcox, Limited: *See*—
Battermann, Johan; and Froman, Bernard, 3,420,097.
Campbell, Iain Brown, 3,446,439.
Dick, Norman T., 3,433,926.
Junkermann, Wolfgang, 3,435,890.
Junkermann, Wolfgang; and Sachse, Bruno, 3,437,559.
Santilhano, Phillip D., 3,431,385.

Babcock, David L.: *See*—
Stimson, Allen G.; and Babcock, David L.,3,475,616.

Babcock, Dudley S., to Owens-Illinois, Inc. Two compartment package. 3,458,076, 7-29-69, Cl. 215-6.

Babcock, Edward V.: *See*—
Colombo, Francesco; and Babcock, Edward V.,3,434,796.

Babcock, Edward V., to United States Borax & Chemical Corporation. Mold release composition. 3,474,166, 10-21-69, Cl. 264-338.

Babcock Electronics Corporation: *See*—
Grimes, James E.; and Muller, Michael, 3,443,253.
Wong, Frank; Carpenter, John Cline; and Sanford, Robert Clark, 3,440,656.

Babcock, Eugene W., to Libbey-Owens-Ford Company. Apparatus for producing multiple sheet glazing units. 3,440,031, 4-22-69, Cl. 65-152.

Babcock, Gordon L., to United States of America, Atomic Energy Commission. Thermally stabilized class A or class B complementary transistor push-pull amplifier. 3,484,867, 12-16-69, Cl. 330-13.

Babcock, John C.: *See*—
Campbell, J Allan; and Babcock, John C.,3,466,276.

Babcock, Leonard V., to Warwick Electronics Inc. Bandpass network having a high attenuation rejection characteristic. 3,452,303, 6-24-69, Cl. 333-76.

Babcock, Roger S., to Union Carbide Corporation. Steel surface treatment. 3,484,303, 12-16-69, Cl. 148-4.

Babcock, Willis, to Mission Manufacturing Company, mesne. Check valve. 3,452,778, 7-1-69, Cl. 137-512.1

Babecki, Robert J.: *See*—
Ferris, Charles L.; Babecki, Robert J.; Braathen, Finn N.; and Sirovatka, George J.,3,446,106.

Babel, Albert: *See*—
Fuchs, Alfons; and Babel, Albert,3,472,655.

Babel, Kurt. Food vending apparatus. 3,442,200, 5-6-69, Cl. 99-357.

Babel, Louis; and Peytavin, Pierre, to Societe Civile d'Etudes de Centrifugation. Continuously rotating vertical casting machine. 3,430,684, 3-4-69, Cl. 164-282.

Baber, Ernest G., to Du Pont de Nemours, E. I., and Company. Grooved coating apparatus. 3,422,796, 1-21-69, Cl. 118-411.

Babic, George M., to United Aircraft Corporation. Fail safe sensing device. 3,442,180, 5-6-69, Cl. 92-48.

Babic, George M.: *See*—
Sherman, Robert; Babic, George M.; and Posnansky, Hernan A.,3,464,319.

Babicky, Raymond C. Microphone and adapter for attachment to saxophone. 3,482,026, 12-2-69, Cl. 84-1.01

Babikyan, Jirair A.: *See*—
Hayner, Paul F.; and Babikyan, Jirair A.,3,464,057.

Babillon, Claude, to CSF-Compagnie Generale de Telegraphie Sans Fil. Klystron AM transmitters. 3,473,125, 10-14-69, Cl. 325-120.

Babington, Robert S. Fuel burner. 3,425,058, 1-28-69, Cl. 239-124.

Babington, Robert S.; Yetman, Albert A.; and Slivka, William R. Method of atomizing liquids in a mono-dispersed spray. 3,421,692, 1-14-69, Cl. 239-8.

Babington, Robert S.; Yetman, Albert A.; and Slivka, William R. Apparatus for spraying liquids in mono-dispersed form. 3,421,699, 1-14-69, Cl. 239-337.

Babington, Robert S.; Yetman, Albert A.; and Slivka, William R. Power humidification apparatus. 3,425,059, 1-28-69, Cl. 261-29.

Babitsky, Boris Davidovich: *See*—
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Babitzka, Rudolf; Baumann, Gunther; Hoelle, Hermann; and Scholl, Hermann, to Bosch, Robert, G.m.b.H. Fuel injection system for internal combustion engines. 3,463,129, 8-26-69, Cl. 123-32.

Babl, Albert; and Geng, Heinz Josef, to Lonza-Werke G.m.b.H. Preparation of hexagonal boron nitride. 3,473,894, 10-21-69, Cl. 23-191.

Bablouzian, Leon M.; Castonguay, Roger A.; and Wenckus, Joseph F., to Little, Arthur D., Inc. Liquid fuel burner. 3,477,644, 11-11-69, Cl. 239-135.

Babson, Arthur L., to Warner-Lambert Pharmaceutical Company. Process for the stabilization of organic esters of phosphoric acid. 3,466,306, 9-9-69, Cl. 260-395.

Babson, Robert G.; and James, Virgil C. Aircraft turbulence indicator. 3,474,680, 10-28-69, Cl. 73-517.

Babunovic, Momir, to Barry-Wehmiller Company. Container transfer apparatus. 3,420,353, 1-7-69, Cl. 198-22.

Babunovic, Momir; and Goessman, John C., to Barry-Wehmiller Company. Container moving and metering apparatus. 3,477,557, 11-11-69, Cl. 198-22.

Babunovic, Momir: *See*—
Stapf, Virgil Melvin; and Babunovic, Momir,3,456,788.

Babusci, Louis D.; Cretella, Biagio A.; Feder, David O.; and Koontz, Donald E., to Bell Telephone Laboratories, Incorporated. Cylindrical lead acid cell. 3,434,883, 3-25-69, Cl. 136-14.

Babyline Furniture Corporation: *See*—
Siegel, Max; and Jacobs, Allen D., 3,480,974.

Bacaner, Marvin B., to University of Minnesota, The Regents of the. Suppression of cardiac ventricular fibrillation and cardiac arrhythmias with bretylium tosylate. 3,441,649, 4-29-69, Cl. 424-315.

Bach, Frederick O.; and Ormsbee, Ruth E., to Dick, A. B., Company. Preparation of imaged offset master. 3,445,224, 5-20-69, Cl. 96-1.

Bach, Frederick O.; and Thomas, Richard E., to Dick, A. B., Company. Method for producing copies. 3,464,353, 9-2-69, Cl. 101-470.

Bach, Georges Gustav: *See*—
Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack,3,485,819.

Bach, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process and an apparatus for the production of crimped filaments. 3,441,988, 5-6-69, Cl. 28-1.

Bach, Hartwig C., to Monsanto Company. Preparation of aromatic acids from hydroxymethyl- aromatics. 3,453,324, 7-1-69, Cl. 260-520.

Bach, Henry J., to Mobil Oil Corporation. Metal conductor coated with non linear copolyester basecoat layer and polyamide-imide outer layer. 3,475,212, 10-28-69, Cl. 117-218.

Bach, Henry M., Jr., to Radio Corporation of America. Signal translating system. 3,420,954, 1-7-69, Cl. 179-1.

Bach, Ricardo O.: *See*—
Kamienski, Conrad W.; Bach, Ricardo O.; and Leonhardt, William S.,3,452,111.

Bach, Ricardo O.; and Boardman, William W., Jr., to Lithium Corporation of America, Inc. Atmosphere regenerants and method of preparing same. 3,445,198, 5-20-69, Cl. 23-315.

Bach, Ricardo O.; Kamienski, Conrad W.; Dellinger, Matthew Henry; Mitchem, Luther C.; and Morrison, Robert C., to Lithium Corporation of America, Inc. Ethynylating agent and preparation thereof. 3,445,534, 5-20-69, Cl. 260-665.

Bach, Werner, to General Electric Company. Internal bus connection for high-current ring- connected transformers and the like. 3,465,272, 9-2-69, Cl. 336-12.

Bachand, Gordon R., to United States of America, Atomic Energy Commission. Magnetically settable counter. 3,476,919, 11-4-69, Cl. 235-92.

Bacharach Industrial Instrument Co.: *See*—
Munroe, William A.; and Kruger, Frederick B., 3,427,874.

Bacharach, Melvin L., to Strauss, Levi, & Co. Garment hanger unit. 3,458,093, 7-29-69, Cl. 223-87.

Bacharach, Melvin L., to Strauss, Levi, & Co. Shipping container assembly and garment hanger therefor. 3,472,360, 10-14-69, Cl. 206-7.

Bachelder, Albert J., to Polaroid Corporation. Photographic film roll. 3,433,637, 3-18-69, Cl. 96-78.

Bachelder, Albert J.; and Donovan, John E., to Polaroid Corporation. Photographic film assembly and process. 3,455,691, 7-15-69, Cl. 96-76.

Bachelder, Albert J.; Hibben, George C.; and Rebelsky, William, to Polaroid Corporation. Composite photographic film roll. 3,455,692, 7-15-69, Cl. 96-78.

Bacheller, Kenneth G. Faucet construction. 3,459,207, 8-5-69, Cl. 137-119.
Bachem, Christian; John, Gunther; and Rust, Gustav. Humidity measuring device. 3,465,591, 9-9-69, Cl. 73-336.5
Bacher, Gottlob; and Fehrenbach, Siegfried, to Bosch, Robert, GmbH. Arrangement for measuring of angles especially for measuring the angular position of wheels of a motor vehicle. 3,439,987, 4-22-69, Cl. 356-155.
Bachi, Inc.: *See—*
Bachi, Robert W., 3,465,608.
Bachi, Robert W., to Bachi, Inc. Gear train with dismountable ratio-determining gear assembly. 3,465,608, 9-9-69, Cl. 74-325.
Bachle, Carl F., to Continental Aviation and Engineering Corporation. Variable compression ratio piston including surge accumulation means. 3,450,112, 6-17-69, Cl. 123-78.
Bachle, Carl F., to Continental Aviation and Engineering Corporation. Valve construction for variable compression ratio piston. 3,450,113, 6-17-69, Cl. 123-78.
Bachler, Werner G.; and Noller, Hans-Georg, to Leybold-Heraeus G.m.b.H. & Co. KG, mesne. Diffusion pump. 3,437,261, 4-8-69, Cl. 230-101.
Bachman, Bruce E.: *See—*
Jordan, Gary B.; and Bachman, Bruce E.,3,457,424.
Bachman, Gerald L., to Monsanto Company. Certain halogenated 2-(2-thiazolyl) aminofuran- 5-ones. 3,444,178, 5-13-69, Cl. 260-306.8
Bachman, Gustave Bryant; and Connon, Neil W., to Purdue Research Foundation. Preparation of nitroalkanes from alkyl-nitrates and alkali metal nitrites. 3,461,178, 8-12-69, Cl. 260-644.
Bachman, Gustave Bryant; Golding, Brage; and Murphy, Thomas P., to Dart Industries Inc., mesne. Anionic polymerization of lactams with phospho- nitrilic compound as cocatalyst. 3,448,086, 6-3-69, Cl. 260-78.
Bachman, Gustave Bryant; and Whitehouse, Maynard Lester, to Purdue Research Foundation. 32-Nitroalkyl mercuric halides and method of preparing same. 3,428,663, 2-18-69, Cl. 260-431.
Bachman, John D. Fluid pressure control system and control valve therefor. 3,462,000, 8-19-69, Cl. 198-28.
Bachman, Joseph A., to PPG Industries, Inc. Cutting plastic sheets to trapezoidal shapes. 3,467,332, 9-16-69, Cl. 242-56.
Bachman, Marvin C.; and Hidy, Phil H., to Commercial Solvents Corporation. Methods for treating inflammation with estrogenic compounds. 3,453,367, 7-1-69, Cl. 424-278.
Bachman, Walter S., Jr.; Erhardt, William A., Jr.; and Surprenant, Edward V., to United-Carr Incorporated, mesne. Automatic cutting mechanism. 3,461,765, 8-19-69, Cl. 83-234.
Bachman, William. Strip roll positioning mechanism. 3,442,546, 5-6-69, Cl. 294-67.
Bachmann, Gerhard: *See—*
Braun, Willy; and Bachmann, Gerhard,3,442,914.
Bachmann, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 6-(Aminophenyl)-3-pyridazones and their production. 3,487,081, 12-30-69, Cl. 260-250.
Bachmann, Gerhard; and Amann, August, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 6-Aminophenyl-and 6-acylaminophenyl-4,5- dihydropyridazones-(3). 3,475,431, 10-28-69, Cl. 260-250.
Bachmann, Heinrich, to Terlinden & Co. Conveyor. 3,422,950, 1-21-69, Cl. 198-177.
Bachmann, Heinz: *See—*
Welzel, Herbert; and Bachmann, Heinz,3,465,657.
Bachmann, Horst, to Maschinenfabrik Hasenclever Aktiengesellschaft. Apparatus for noncutting shaping of metallic workpieces. 3,475,947, 11-4-69, Cl. 72-419.
Bachmann, Horst, to Maschinenfabrik Hasenclever Aktiengesellschaft. Process for electrically upsetting rod-shaped metal blanks, and die for carrying out the process. 3,476,911, 11-4-69, Cl. 219-151.
Bachmann, Horst, to Maschinenfabrik Hasenclever Aktiengesellschaft. Die for electrical upsetting. 3,487,196, 12-30-69, Cl. 219-151.
Bachmann, Horst; Schneider, Hans-Dieter; and Sennhenn, Emil, to Fernseh G.m.b.H. Arrangements for indicating the state of adjustment of optical components in a television camera. 3,435,136, 3-25-69, Cl. 178-6.8
Bachmann, Peter, to Fabrique d'Edauches de Bettlach. Stopwatch control mechanism. 3,457,720, 7-29-69, Cl. 58-76.
Bachmann, William V., to Chrysler Corporation. Infinite stop door hinge. 3,427,682, 2-18-69, Cl. 16-146.
Bachmann, William V., to Chrysler Corporation. Hinge. 3,461,481, 8-19-69, Cl. 16-140.
Bachmann, Willi, to Teves, Alfred, G.m.b.H. Wheel brake cylinder with self-adjusting mechanism. 3,482,664, 12-9-69, Cl. 188-196.
Bachmann, Wolfgang, to Henry & Cie, Jean Kauer & Cie, Succ. Compressor for a mechanical refrigerator. 3,473,726, 10-21-69, Cl. 230-45.
Bachner, George L., to Carroll Street Corporation. Blow molding method and apparatus. 3,423,495, 1-21-69, Cl. 264-96.
Bachner, George L., to Majestic Tile Company. Mold structure. 3,443,786, 5-13-69, Cl. 249-68.
Bachrach, Erwin; and Gabrielson, Dan A., to Alpine-Western, Inc. Apparatus for drying a wet coating on a surface. 3,438,138, 4-15-69, Cl. 34-105.
Bachrich, Jakob L., to Galbraith & Sulley Ltd. Insulated structural barrier. 3,427,775, 2-18-69, Cl. 52-402.
Back, Frank G. Apparatus for testing lenses and method. 3,447,874, 6-3-69, Cl. 356-124.
Back, Frank G. Compact varifocal lens system. 3,455,628, 7-15-69, Cl. 350-187.
Back, Frank G., to Zoomar, Inc. Television camera lens control device. 3,463,883, 8-26-69, Cl. 178-7.92
Back, Frank G. Long range varifocal optical systems. 3,471,213, 10-7-69, Cl. 350-10.
Back, Frank G.; and Sterflinger, Ludwig, to Zoomar, Inc. Remote control mechanism for a varifocal lens. 3,424,514, 1-28-69, Cl. 350-187.
Back, Leonard; and Shiverdecker, James H., to Bergstein Packaging Trust. Automatic flap folding means for packaging apparatus. 3,483,803, 12-16-69, Cl. 93-44.
Back, Philip John Quarles; and Ritchie, Colin Edward, to Cox, Williaam J. (Sales) Limited. Domed rooflights. 3,473,276, 10-21-69, Cl. 52-200.
Backe, Eugene K.; and Wiskow, Gary J., to Allis-Chalmers Manufacturing Company. Fuel cell electrode. 3,441,390, 4-29-69, Cl. 29-182.2
Backer, Frank: *See—*
Lusskin, Robert M.; Backer, Frank; and Larson, John R.,3,423,371.
Backer, Stanley; and Popper, Peter. Alternate twist yarns and method of forming same. 3,434,275, 3-25-69, Cl. 57-139.
Backers, Franciscus Theodorus; and Wessels, Johannes Hendrik, to North American Philips Company, Inc. Apparatus for recording video and audio signals with means for facilitating synchronous cutting. 3,432,614, 3-11-69, Cl. 178-6.6
Backlund, Gerald Richard; Martino, Joseph Francis; and Divine, Ralph Dettmer, to American Cyanamid Company. Malathion manufacture. 3,463,841, 8-26-69, Cl. 260-978.
Backlund, Peter Stanley, to Union Oil Company of California. Grease composition. 3,422,015, 1-14-69, Cl. 252-42.7
Backlund, Peter Stanley, to Union Oil Company of California. Vacuum concentration of phosphoric acid. 3,457,036, 7-22-69, Cl. 23-165.
Backman Chocolate Manufacturing Company: *See—*
Hess, Earl H., 3,429,316.
Backman, Ralf: *See—*
Stal, Sture; and Backman, Ralf,3,479,932.
Backo, Ursula. Watch dial. 3,452,540, 7-1-69, Cl. 58-126.
Backsén, Hermann: *See—*
Schmidt-Holthausen, Hans-Joachim; and Backsen, Hermann,3,462,130.
Backstrom, Arne Ivar; Henrikson, Sture; and Levin, Per Erik, to Avesta Jernverks Aktiebolog. Process for the production of bimetallic material with high resistance to transcrystalline stress corrosion in a chloride environment. 3,479,181, 11-18-69, Cl. 75-212.
Backteman, Erik Hugo, to AB Rosenblads Patenter. Method in evaporation of waste liquor discharged from continuously operating cellulose digester or boiler. 3,428,107, 2-18-69, Cl. 159-47.
Backus, Andrew C.; and Wood, Louis L., to Grace, W. R., & Co. Preparation of zinc ethyl acetoacetate chelate. 3,453,300, 7-1-69, Cl. 260-429.9
Backus, John G. Reeds for woodwind instruments. 3,420,132, 1-7-69, Cl. 84-383.
Baclini, David. Blast valve. 3,459,114, 8-5-69, Cl. 98-119.
Bacon, James R., to Burroughs Corporation. High speed deflection amplifier. 3,453,555, 7-1-69, Cl. 330-46.
Bacon, James R., to Burroughs Corporation. Sweep generator for PPI radar display. 3,478,357, 11-11-69, Cl. 343-10.
Bacon, John F.: *See—*
Nasca, Anthony V.; and Bacon, John F.,3,476,637.
Bacon, Louis; and Turner, Robert J. Abdomen-compressor for trousers. 3,457,926, 7-29-69, Cl. 128-519.
Bacon, Merle H., to MacMillan Bloedel Limited. Plywood assembly apparatus. 3,437,545, 4-8-69, Cl. 156-557.
Bacon, Oliver M., to Hunnewell Soap Company, The. Coagulant for clarifying turbid aqueous fluids. 3,446,742, 5-27-69, Cl. 252-175.
Bacon, Osborne C.; and Cupp, Samuel B., du Pont de Nemours, E. I., and Company. Process of hot water aging of wool treated with an anti-felting agent. 3,431,132, 3-4-69, Cl. 117-7.
Bacon, R. S., Veneer Company: *See—*
Wilhelm, George F., 3,480,494.
Bacon, Robert E.; and Barbier, Jean F., to Eastman Kodak Company. Print-out silver halide emulsions capable of being chemically developed and/or photodeveloped. 3,447,927, 6-3-69, Cl. 96-87.
Bacon, Robert E.; and Davis, William R., to Haensel, Otto GmbH, mesne. Packaging machine. 3,443,357, 5-13-69, Cl. 53-186.
Bacon, Robert E.; and Fogg, David B., to Eastman Kodak Company. Method of making multilayer coatings containing a water resistant layer. 3,425,857, 2-4-69, Cl. 117-34.

Bacon, Robert N., to Black and Decker Manufacturing Company, The. Overload warning signal for motors. 3,424,964, 1-28-69, Cl. 318-220.
Bacon, Roger J., to FMC Corporation. Baffling for rotary mower. 3,469,376, 9-30-69, Cl. 56-6.
Bacon, Roger J., to FMC Corporation. Snow caster. 3,478,448, 11-18-69, Cl. 37-43.
Bacon, William D., Jr.; and Kilpatrick, Robert G., to General Electric Company. Latch device. 3,431,003, 3-4-69, Cl. 292-256.
Bacskai, Robert, to Chevron Research Company. Aluminum article covered by maleic anhydride modification polymers. 3,450,560, 6-17-69, Cl. 117-132.
Baczewski, Alexander; and Bracco, Donato J., to General Telephone & Electronics Laboratories, Incorporated. Electroluminescent cell matrix material of improved stability. 3,440,471, 4-22-69, Cl. 313-108.
Bada Company, The: *See—*
Bonessa, Vick G., 3,478,603.
Roe, Norman M., 3,474,677.
Badali, Joseph A.; and Fowler, Arnold L. Feed system for cartridges. 3,421,408, 1-14-69, Cl. 89-33.
Badali, Joseph A.; Kulikowski, Victor Alexander; and Vartanian, Edwin S., to Olin Mathieson Chemical Corporation. Firearm bolt-striker assembly including a bolt handle and power spring. 3,456,375, 7-22-69, Cl. 42-16.
Badalich, Frank C., to Bell & Howell Company. Rotary slide tray. 3,469,910, 9-30-69, Cl. 353-117.
Badalini, Giovanni, to S.p.A. Cambi Idraulici Badalini. Hydraulic change speed gear. 3,464,206, 9-2-69, Cl. 60-53.
Badcock, David Norman William, to Kango Electric Hammers Limited. Portable power tools. 3,456,743, 7-22-69, Cl. 173-117.
Badcock, David Norman William, to Kango Electric Hammers Limited. Double insulated hand tool with insulating shaft couplings. 3,457,438, 7-22-69, Cl. 310-50.
Baddour, Raymond Frederich: *See—*
Meissner, Herman Paul; and Baddour, Raymond Frederich,3,458,283.
Bade, Alfred G.: *See—*
Wellauer, Edward J.; Hein, Quentin W.; Bade, Alfred G.; and Pokrandt, Glenn C.,3,457,731.
Bade, Heinz Emil, to Behrens, Joh. Friedrich. Compressed air-operated drive-in apparatus to drive-in fasteners. 3,427,928, 2-18-69, Cl. 91-305.
Badenhop, Charles T.: *See—*
May, Clayton A.; and Badenhop, Charles T.,3,420,794.
Bader, Clifford J.; Fussell, Richard L.; and Barnett, Arthur G., to Burroughs Corporation. Magnetometer using thin film transducer as slop detection filter. 3,443,213, 5-6-69, Cl. 324-43.
Bader, Erich; and Sibenhorn, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of fibrous polyoxymethylene. 3,463,757, 8-26-69, Cl. 260-67.
Bader, George: *See—*
Eager, George S., Jr.; and Bader, George,3,430,137.
Bader, Hans: *See—*
Bensinger, Wolf-Dieter; Derndinger, Hans-Otto; Zeilinger, Karl; Bader, Hans; and Kempin, Karl,3,481,312.
Bader, Henry; and Buckler, Sheldon, to Polaroid Corporation. Preparation of N-substituted hydroxylamines. 3,467,711, 9-16-69, Cl. 260-583.
Bader, Izaak Walton, to Swingline Inc. Nail package structure. 3,485,354, 12-23-69, Cl. 206-65.
Bader, Otto; Guhne, Hans-Peter; Sommerfeld, Karl; and Chilla, Johannes, to Daimler-Benz Aktiengesellschaft. Engine valve brake for an internal combustion engine provided with an exhaust gas turbo- supercharger. 3,430,436, 3-4-69, Cl. 60-13.
Bader, William F.; Landy, Arney, Jr.; and Schmitz, Marvin J., to Minnesota Mining and Manufacturing Company. Electrocardiographic recording system. 3,434,151, 3-18-69, Cl. 346-1.
Badertscher, Markus: *See—*
Wicki, Heinz; May, Max; and Badertscher, Markus,3,472,605.
Badessa, Rosario S.: *See—*
Kent, Robert L.; Badessa, Rosario S.; Barus, Carl; Dunn, Joseph M.; Glaser, Raymond Arthur; and Johnson, Leonard B.,3,477,666.
Badessa, Rosario S., to Massachusetts Institute of Technology. Amplitude modulation detector for single sideband or suppressed carrier input. 3,430,151, 2-25-69, Cl. 329-50.
Badewitz, Charles J., to Ryan Aeronautical Co., The. Landing site selection radar. 3,472,471, 10-14-69, Cl. 244-77.
Badey, Paul E.; Oppel, John A.; and Tognella, Ugo R., to General Electric Company. Voltage controlling shunting resistor with operating cam contour modifying means. 3,482,069, 12-2-69, Cl. 200-148.
Badger, Alfred E.: *See—*
Oelke, Waldemar W.; Carson, Frank J.; Badger, Alfred E.; and O'Connell, Thomas B.,3,477,840.
Badger, Algernon S.: *See—*
Erath, Louis W.; and Badger, Algernon S.,3,424,989.
Badger Company, Inc., The: *See—*
King, Norman B., 3,475,508.
Miserlis, Constantine D., 3,479,254.
Sheely, Harold Russell, 3,451,899.
Badger, George M. W., to Varian Associates. Intergral cavity multicavity linear beam amplifier having means for applying a D. C. voltage across the interaction gaps. 3,456,207, 7-15-69, Cl. 330-45.
Badger, Joe G., to Tarzian, Sarkes, Inc. Television tuner. 3,438,272, 4-15-69, Cl. 74-10.8
Badger, Joe G., to Tarzian, Sarkes, Inc. Two-speed tuner drive system. 3,446,083, 5-27-69, Cl. 74-10.5
Badger, Joe G.: *See—*
Meadows, Stanley R.; Valdettaro, Alarcio A.; and Badger, Joe G.,3,457,379.
Badger Manufacturing Company: *See—*
Graham, James J., 3,427,230.
Badger Meter Manufacturing Company: *See—*
McCormick, William S., 3,473,108.
Muschinske, Richard J.; and Silverberg, Bernard M., 3,471,774.
Strobel, Donald Henry, 3,484,673.
Badger Northland Inc.: *See—*
Haen, Eugene P.; Skromme, Robert B.; and Smith, Robert W., 3,428,027.
Badger Plug Company: *See—*
Voissem, Marvin C.; and Ferron, James C., 3,454,155.
Badin, Ferdinand Edmond, to Centri-Engineering. Centrifugal fluid-powder clutch with radial grooves. 3,460,658, 8-12-69, Cl. 192-105.
Badini, John A.; and Scherb, Walter R., Jr., to Western Electric Company, Incorporated. Apparatus for fabricating connectors. 3,451,118, 6-24-69, Cl. 29-203.
Badische Anilin- & Soda- Fabrik Aktiengesellschaft: *See—*
Daumiller, Guenther; and Lautenschlager, Walter, 3,428,710.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft: *See—*
Adam, Karl; and Haarer, Erich, 3,475,344.
Adam, Karl; Schulz, Alfred; Haarer, Erich; and Winderl, Siegfried, 3,476,793.
Adam, Karl; Haarer, Erich; and Dorfner, Konrad, 3,478,112.
Adam, Karl; and Haarer, Erich, 3,479,411.
Adam, Karl; and Haarer, Erich, 3,483,253.
Adolphi, Heinrich; and Cordes, Hans, 3,482,921.
Bachmann, Gerhard; and Amann, August, 3,475,431.
Bachmann, Gerhard, 3,487,081.
Baer, Karl; Hoffmann, Herwig; and Suessenguth, Hermann, 3,427,356.
Beck, Fritz; Leitner, Hans; Wintersberger, Karl; and Guthke, Harald, 3,477,923.
Becke, Friedrich; and Hagen, Helmuth, 3,450,741.
Beckmann, Wilhelm, 3,458,418.
Beckmann, Wilhelm; Kengelbach, Werner Ludwig; Metzger, Horst; and Pape, Martin, 3,476,669.
Boettger, Guenter; Guenthert, Paul; Kindler, Hubert; and Stanger, Hans, 3,449,414.
Bonitz, Eckhard; and Rettig, August, 3,451,833.
Braun, Willy; and Paetzke, Ingo, 3,428,620.
Braun, Willy; and Anton, Ernst, 3,428,647.
Braun, Willy; and Mecke, Rolf, 3,483,179.
Brodkorb, Ernst; and Scherer, Herbert, 3,481,707.
Buchholz, Karl; Stahnecker, Erhard; Grohmann, Johannes; and Moeller, Rolf, 3,468,820.
Burger, Heinz; Mohr, Heinrich; Priebe, Edmund; Reuter, Lothar; and Weber, Heinz, 3,441,524.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Weber, Heinz; and Willersinn, Herbert, 3,457,204.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert, 3,472,799.
Csizi, Gotthard, 3,449,234.
Csizi, Gotthard, 3,458,423.
Csizi, Gotthard, 3,481,856.
Dachs, Karl; Wilhelm, Hans; Wick, Kurt; Schwenke, Wolfgang; and Naeder, Max, 3,440,668.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; Witsch, Heinz-Guenter; and Theilig, Dietmar, 3,442,600.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; and Witsch, Guenter, 3,478,376.
Daumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert, 3,476,831.
Dehnert, Johannes; and Grosch, Walter, 3,427,119.
Diebold, Adolf; Raichle, Ludwig; and Dussel, Wilhelm, 3,441,232.
Dimroth, Peter, 3,441,578.
Distler, Harry, 3,456,016.
Distler, Harry, 3,461,121.
Dorsch, Dieter, 3,420,092.
Dumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert, 3,458,599.
Erdmann, Kurt; Nerlick, Lydia, curatrix; Fischer, Claus; Friedenrich, Heinrich; and Bauer, Helmut, 3,481,255.
Fecher, Friedrich; Schoenmann, Jakob; and Rosewicz, Horst, 3,461,017.

Feldhoff, Heinrich; Becker, Klaus; and Schlereth, Georg, 3,476,963.
Fischer, Max; Scheuermann, Hans; Klaassen, Hermann; and Lenz, Johann, 3,482,353.
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Sarnecki, Wilhelm, 3,449,438.
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Pommer, Horst, 3,471,569.
Friedrichsen, Wilhelm; and Wegerich, Anton, 3,429,654.
Friedrichsen, Wilhelm; and Goehre, Otto, 3,464,930.
Friedrichsen, Wilhelm; Poehler, Guenter; and Goehre, Otto, 3,478,063.
Friz, Hans; Neumayr, Franz; Reichert, Martin; Teltschik, Walter; and Wagner, Ulrich, 3,452,114.
Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedhelm, 3,426,491.
Goelz, Horst; Suter, Hubert; Brunnmueller, Friedrich; and Palm, Albert, 3,449,412.
Graser, Fritz; and Kiefer, Hans, 3,461,141.
Guthke, Harald; Wintersberger, Karl; Beck, Fritz; Floss, Josef Georg; and Habermann, Wolfgang, 3,427,234.
Hahn, Erwin; and Wippel, Hans Guenter, 3,441,554.
Hahn, Erwin; and Seefelder, Matthias, 3,445,466.
Hahn, Erwin; and Seefelder, Matthias, 3,478,045.
Hamprecht, Guenther; Mohr, Rudolf; Fromm, Dieter; Schwarzmann, Matthias; and Vogel, Ludwig, 3,458,511.
Henkler, Herbert; Wilhelm, Hans; Floss, Josef Georg; Strehler, Hugo; and Brodt, Rudolf, 3,486,903.
Herber, Horst; Hagen, Werner; and Schroeder, Wolfgang, 3,455,091.
Herrle, Karl; Baumann, Karl Heinz; Beckmann, Wilhelm; and Heil, Eduard, 3,458,467.
Hiller, Karl-Heinz; Kindler, Hubert; Scholz, Heinrich; and Strohmeyer, Max, 3,444,255.
Jentzsch, Wolfgang, 3,433,811.
Jockers, Kurt; Meier, Hermann; and Taglinger, Ludwig, 3,446,587.
Jung, Hans, 3,470,199.
Jung, Johann; and Koenig, Karl-Heinz, 3,467,712.
Kastning, Ernst-Guenther; and Naarmann, Herbert, 3,431,227.
Kiefer Hans; Raff, Paul; and Schuster, Ludwig, 3,432,552.
Kindler, Hubert; and Schuler, Dominik, 3,423,391.
Kirner, Uwe; and Hartmark, Bjarne, 3,476,505.
Koenig, Karl-Heinz; and Pommer, Horst, 3,437,668.
Koenig, Karl-Heinz; and Pommer, Horst, 3,468,923.
Koppe, Rolf, 3,469,624.
Kranz, Joachim; Maier, Karl; and Polster, Rudolf, 3,435,054.
Kunde, Joachim; Wilhelm, Hans; and Doerfel, Helmut, 3,471,447.
Lautenschlager, Walter; Srna, Christian; and Schuster, Ludwig, 3,427,363.
Lehrer, Erwin; and Woellhaf, Josef, 3,437,275.
Lehrer, Erwin; and Teltschik, Walter, 3,460,915.
Lindner, Edmund; and Knoll, Arnulf, 3,468,482.
Maahs, Paul; Matthies, Hans-Georg; and Wenger, Friedrich, 3,477,094.
Martin, Wolfgang; Linge, Hermann; Hendus, Hans; and Wenger, Friedrich, 3,434,278.
Maschke, Artur; and Pasedach, Heinrich, 3,478,060.
Meyer, Hermann; Markert, Ferdinand; and Schmidt, Emil, 3,458,588.
Mueller, Herbert, 3,437,649.
Naarmann, Herbert; Hofmann, Hermann Pankraz; and Kastning, Ernst-Guenther, 3,454,538.
Naarmann, Herbert; and Kastning, Ernst-Guenther, 3,476,830.
Naarmann, Herbert; Stabenow, Joachim; and Kastning, Ernst-Guenther, 3,481,895.
Naarmann, Herbert, 3,481,923.
Nebe, Erich, 3,429,929.
Nonnenmacher, Helmut; Appl, Max; Haug, Juergen; and Andrussow, Konstantin, 3,431,284.
Nonnenmacher, Helmut; Weitz, Hans-Martin; and Willersinn, Carl-Heinz, 3,478,093.
Petersen, Harro, 3,450,702.
Petersen, Harro, 3,450,703.
Petersen, Harro, 3,452,017.
Platz, Rold; Taglieber, Kurt; and Weinfurter, Kurt, 3,471,584.
Platz, Rolf; Nohe, Heinz; and Schuler, Dominik, 3,437,431.
Platz, Rolf; and Baur, Karl Gerhard, 3,475,495.
Platz, Rolf, 3,483,249.
Pohlemann, Heinz; Spoor, Herbert; and Becker, Ernst, 3,446,723.
Raichle, Ludwig; Werminghausen, Bernhard; and Unterstenhoefer, Leo, 3,446,122.
Reicheneder, Franz; Dury, Karl; and Fischer, Adolf, 3,471,493.
Reicheneder, Franz; and Fischer, Adolf, 3,483,201.
Reif, Werner; Haug, Peter; Freyschlag, Herwig; and Pommer, Horst, 3,485,859.
Reinhard, Hans; Hoelscher, Friedrich; and Dotzauer, Bernhard, 3,423,232.
Ries, Franz, 3,436,896.
Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert, 3,468,885.
Schaefer, Gerhard; Suter, Hubert; Wirth, Friedrich; and Mann, Walter, 3,420,750.
Schefczik, Ernst, 3,468,872.
Scheuerer, Guenter; Zeidler, Adolf; Dickhaeuser, Heiner; and Adolphi, Heinrich, 3,423,487.
Schmitt, Karl Otto; Hansen, Guenter; and Mueller, Hans, 3,449,067.
Schneider, Kurt; Pasedach, Heinrich; and Pommer, Horst, 3,446,851.
Schroeder, Wolfgang, 3,420,885.
Schultze, Werner, 3,423,223.
Schulze, Guenther; and Heck, Karl-Heinz, 3,477,828.
Seefelder, Matthias; Ambrust, Herbert; and Wippel, Hans Guenter, 3,455,898.
Seefelder, Matthias, 3,455,947.
Sliwka, Wolfgang; and Gellrich, Manfred, 3,470,125.
Sperber, Heinrich; Schulz, Gerhard; Palm, Christof; and Koehler, Waldemar, 3,483,214.
Spoor, Herbert; Pohlemann, Heinz; Florus, Gerhard; and Schauder, Friedrich, 3,454,482.
Spoor, Herbert; Florus, Gerhard; Pohlemann, Heinz; and Schauder, Friedrich, 3,455,806.
Spoor, Herbert; and Pohlemann, Heinz, 3,458,420.
Stahnecker, Erhard; and Grohmann, Johannes, 3,428,579.
Stahnecker, Erhard; and Grohmann, Johannes, 3,461,088.
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo, 3,429,836.
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo, 3,434,980.
Stockburger, Dieter; Sinn, Richard; Raichle, Ludwig; Buschmann, Karl; and Stege, Wolf-Dieter, 3,449,238.
Suter, Hubert; Nohe, Heinz; Beck, Fritz; and Hrubesch, Adolf, 3,471,381.
Titzenthaler, Eckart, 3,461,140.
Unterstenhoefer, Leo, 3,486,862.
Von Kutepow, Nikolaus; Bittler, Knut; and Neubauer, Dieter, 3,437,676.
Von Kutepow, Nikolaus; Bittler, Knut; Neubauer, Dieter; and Reis, Hermann, 3,455,989.
Weber, Heinz; Burger, Heinz; Daumiller, Guenther; Willersinn, Herbert; and Grohmann, Johannes, 3,420,786.
Wilhelm, Hans; Bille, Heinz; Hann, Ernst Wilhelm; and Dachs, Karl, 3,450,561.
Wilhelm, Hans; Mueller, Gerhard; Pflueger, Richard; and Doerfel, Helmut, 3,458,474.
Wilhelm, Hans; Henkler, Herbert; and Floss, Josef Georg, 3,486,891.
Windel, Hermann; and Pommer, Ernst-Heinrich, 3,441,581.
Wunsch, Gerd; Wintersberger, Karl; and Geierhaas, Herbert, 3,481,988.

Badische Anilin- & Soda-Fabrik Aktiengesellschaft Ludwigshafen: *See—*
Braun, Willy; and Bachmann, Gerhard, 3,442,914.
Dickhaeuser, Heiner; Scheuerer, Gunter; Adolphi, Heinrich; and Steinbrunn, Gustav, 3,442,984.
Koenig, Horst; and Metzger, Horst, 3,442,901.

Badische Maschinenfabrik G.m.b.H.: *See—*
Graf, Max; and Weis, Martin, 3,473,268.
Graf, Max; Kotz, Gottfried; and Roth, Helmut, 3,473,657.

Badovinac, Matthew; and Broviak, Frank P., to General Time Corporation. Pulse generator for periodically energizing a timer solenoid. 3,466,506, 9-9-69, Cl. 317-142.

Badran, Adnan M., to United Fruit Company. Controlled atmosphere storage of green bananas. 3,450,542, 6-17-69, Cl. 99-154.

Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George, to United Fruit Company. Method of packaging perishable plant foods to prolong storage life. 3,450,543, 6-17-69, Cl. 99-171.

Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George, to United Fruit Company. Method of packaging ripening perishable plant foods to prolong storage life. 3,450,544, 6-17-69, Cl. 99-171.

Badran, Adnan M.: *See—*
Roberts, Jeremy Brown; Jones, Dallas E.; and Badran, Adnan M.,3,440,143.

Badran, Nasri Wadih, to American Pharmaceutical Company. Injectable solutions of the tri-(hydroxymethyl)- aminomethane derivative of 3-(α-acetonylbenzyl)- 4-hydroxycoumarin and processes for preparing the same. 3,485,922, 12-23-69, Cl. 424-281.

Badum, Paul J.; Baumeister, Heard K.; and Nejezchleb, Vladimir, to International Business Machines Corporation. Pneumatic belt device. 3,442,419, 5-6-69, Cl. 226-95.

Baechler, Oswald. Dough preparing and mixing machines. 3,421,741, 1-14-69, Cl. 259-108.

Baehr, Hans-Dieter, to Liftag Hub-, Gleit- und Vorspanntechnik AG. Outlet device for bunkers, silos and the like. 3,482,742, 12-9-69, Cl. 222-564.

Baehr, William H.; Stein, Bernard J.; and Weinberg, Milton, to United States of America, Navy. Frequency error detector for a power supply monitor and bus transfer switch. 3,424,988, 1-28-69, Cl. 328-138.

Baer, Charles E., Jr.; Evans, William; and Malinowski, Eugene, to Eutectic Engineering Company. Colloidal silica compositions containing set indicator. 3,436,235, 4-1-69, Cl. 106-38.3

Baer, Donald G., to General Motors Corporation. Remote illumination apparatus. 3,423,581, 1-21-69, Cl. 240-8.16

Baer, Heinrich: *See—*
Ebneth, Harold; Baer, Heinrich; and Ott, Karl-Heinz,3,450,794.

Baer, James A.: *See—*
Heckler, Clarence H.; and Baer, James A.,3,435,431.
Heckler, Clarence H.; and Baer, James A.,3,466,458.

Baer, John E.: *See—*
Nelson, Carl E.; Baer, John E.; and Foltz, Elwood L.,3,476,858.

Baer, John S., to Precision Specialties, Inc. Coil clutch with coil pilot brake. 3,425,526, 2-4-69, Cl. 192-12.

Baer, John S., to Precision Specialties, Inc. Clutch and actuator system. 3,465,857, 9-9-69, Cl. 192-36.

Baer, Karl; Hoffmann, Herwig; and Suessenguth, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,3-propylenediamines. 3,427,356, 2-11-69, Cl. 260-583.

Baer, Massimo, to Monsanto Company. Polyblends prepared by polymerizing vinyl monomers in the presence of crosslinked rubber. 3,461,188, 8-12-69, Cl. 260-878.

Baer, Ralph H.: *See—*
Durocher, Hector R.; Wentworth, James A.; and Baer, Ralph H.,3,433,442.

Baer, Ronald William: *See—*
Lovell, James Byron; and Baer, Ronald William,3,459,856.

Baer, Sheldon; Toth, Michael J.; and Dunning, John W., to International Basic Economy Corporation. Processes for dehydrating heat sensitive solid materials. 3,451,828, 6-24-69, Cl. 99-199.

Baerhold, Carl O.; and Griffith, David K., to United Industries. Punch riveting machine. 3,450,324, 6-17-69, Cl. 227-73.

Baermann, Max. Magnetic closure. 3,451,706, 6-24-69, Cl. 292-251.5

Baermann, Max. Permanent magnet device for mounting a photographic transparency. 3,456,374, 7-22-69, Cl. 40-152.

Baermann, Walter P., to Medical Supply Company, mesne. Sheath package and method of application. 3,469,685, 9-30-69, Cl. 206-63.2

Baert, Rober B.: *See—*
Barnish, Philip; and Baert, Rober B.,3,459,061.

Baertsch, Richard D., to General Electric Company. Cryogenic avalanche photodiode of InSb with negative resistance characteristic at potential greater than reverse breakdown. 3,448,351, 6-3-69, Cl. 317-234.

Baerwald, Francis K., to Basic Vegetable Products, Inc. Freeze dried product and process for producing the same. 3,445,247, 5-20-69, Cl. 99-199.

Baetsle, Leon Henri; and Huys, Daniel Joseph, to Studiecentrum Voor Kernenergie S.C.K. Process for preparing mineral ion exchangers and exchangers so obtained. 3,431,086, 3-4-69, Cl. 23-315.

Baetzel, Robert J.; and Majewski, Henry, to Union Carbide Corporation. Process of improving the anti-blocking characteristics of regenerated cellulose tubing and the product resulting from said process. 3,431,127, 3-4-69, Cl. 106-168.

Baeuerlen, Robert J.; and Findley, Thomas W., to Swift & Company. Bread improving agents. 3,442,659, 5-6-69, Cl. 99-91.

Baeyens, Petrus: *See—*
Engelsman, Jan Johannes; Krijl, Gerritt; and Baeyens, Petrus,3,483,100.

Baez, Edgar R.; Heinke, Walter M.; and Nelken, Alfred, to Stewart-Warner Corporation. Fiber optics instrument lighting. 3,433,940, 3-18-69, Cl. 240-2.1

Bafford, Richard Anthony: *See—*
Mageli, Orville Leonard; and Bafford, Richard Anthony,3,420,891.

Bafford, Richard Anthony; and Mageli, Orville Leonard, to Pennwalt Corporation. Peroxy thiolcarbonates. 3,478,080, 11-11-69, Cl. 260-455.

Bagay, Marcel, to Keyes Fibre Company. Locking means for carton covers. 3,459,360, 8-5-69, Cl. 229-44.

Bageman, Fred J. Wheel balance method. 3,474,678, 10-28-69, Cl. 73-483.

Bageman, Fred J. Wheel balance method. 3,474,679, 10-28-69, Cl. 73-483.

Baget, Jean Gaston, to Rhone-Poulenc S.A. Method for the reduction of glycemia. 3,449,499, 6-10-69, Cl. 424-270.

Baggenstos, August: *See—*
Zolliker, Max, 3,426,356.

Baggett, Frank A.: *See—*
Emerson, Paul D.; Engelman, Fred H.; Baggett, Frank A.; and Oatfield, John C.,3,477,661.

Baggott, George T., to Crescent Metal Products, Inc. Basket rack. 3,428,187, 2-18-69, Cl. 211-71.

Baginski, Albert: *See—*
Ryan, John W.; and Baginski, Albert,3,439,448.

Baginski, Stanley W. Open end paint roller. 3,428,989, 2-25-69, Cl. 15-230.11

Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F., to Hewlett-Packard Company. Interferometric system. 3,458,259, 7-29-69, Cl. 356-106.

Bagley, John D., to International Business Machines Corporation. Data transmission system having delay line buffer storage. 3,453,387, 7-1-69, Cl. 178-17.5

Bagley, Peter Edward, to Airflow Developments Limited. Manometers. 3,426,598, 2-11-69, Cl. 73-401.

Bagli, Jehan F.; and Bogri, Tibor, to American Home Products Corporation. 9, 15-Dihydroxyprost-13-enoic acid and ester and preparation thereof. 3,432,541, 3-11-69, Cl. 260-468.

Bagli, Jehan F.; and Bogri, Tibor, to American Home Products Corporation. Process for preparing 11-desoxyprostaglandin and homologs thereof. 3,455,992, 7-15-69, Cl. 260-468.

Baglino, John P.; Gubitose, Nicholas F.; Rappenglueck, Joseph R.; and Loveland, Chester L., to U.S. Textile Machine Company. Apparatus for feeding yarn to be twisted. 3,464,196, 9-2-69, Cl. 57-90.

Bagnall, George F., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Duplicating ribbons with self-attachment means. 3,446,329, 5-27-69, Cl. 197-172.

Bagnall, John. Method of making handled bags. 3,451,316, 6-24-69, Cl. 93-35.

Bagnaschi, Charles L.: *See—*
Eachus, Joseph J.; and Bagnaschi, Charles L.,3,469,242.

Bagnulo, Luigi. Pipe coupling. 3,441,293, 4-29-69, Cl. 285-50.

Bagnulo, Luigi. Safety device for limiting the amount of gas discharged from a container containing a liquefied gas to a predetermined volume. 3,469,597, 9-30-69, Cl. 137-209.

Bagskai, Robert, to Chevron Research Company. Stereoregular coordination catalyst system having nitrogen-containing polymers. 3,483,274, 12-9-69, Cl. 260-878.

Bagwell, Richard H.: *See—*
MacDonald, Hugh D., Jr.; and Bagwell, Richard H.,3,447,767.

Bahan, Edward F., to Bahan Textile Machinery Company, Inc. Floating binder mechanism for controlling loom shuttles. 3,464,457, 9-2-69, Cl. 139-187.

Bahan Textile Machinery Company, Inc.: *See—*
Bahan, Edward F., 3,464,457.

Bahl, Richard C.; and Zeller, Miles J., to Northrop Corporation. Compression tool. 3,451,251, 6-24-69, Cl. 72-407.

Bahlke, Allan R.; and Bloomquist, George W., to FMC Corporation. Coupling device for fluid conducting conduits. 3,479,065, 11-18-69, Cl. 285-151.

Bahlsen, Werner: *See—*
Von Drachenfels, Heinrich-Jurgen Freiherr, 3,470,831.

Bahm, Glenn A., to Institute of Cosmetic Dentistry, Incorporated. Dental bridge. 3,422,534, 1-21-69, Cl. 32-5.

Bahm, Glenn A.; and Andrews, James A., to Hygienic Bridgework, Incorporated. Dental bridge. 3,423,827, 1-28-69, Cl. 32-5.

Bahm, Glenn A.: *See—*
Andrews, James A.; and Bahm, Glenn A.,3,429,043.
Andrews, James A.; Bahm, Glenn A.; Dodson, Riley B.; and Walker, John N.,3,462,837.

Bahmsen, Erwin B., to Steiner American Corporation. Continuous drying method and apparatus. 3,479,746, 11-25-69, Cl. 34-17.

Bahniuk, Eugene: *See—*
Acker, Richard C.; Bahniuk, Eugene; and Kozulla, Robert E.,3,466,065.

Bahnsen, Edward B., Jr., to Owens-Corning Fiberglas Corporation. Insulating material. 3,477,984, 11-11-69, Cl. 260-38.

Bahnsen, Erwi B., to Steiner American Corporation. Continuous washing and rinsing method and apparatus. 3,458,879, 8-5-69, Cl. 8-149.1

Bahnsen, Erwin B., to Steiner American Corporation. Continuous washing method and apparatus. 3,439,365, 4-22-69, Cl. 8-151.

Bahnsen, Erwin B., to Steiner American Corporation. Continuous rinsing method and apparatus. 3,487,468, 12-30-69, Cl. 8-149.1

Bahnsen, Ralph J.; and Cocke, John, to International Business Machines Corporation. Data processing system. 3,427,592, 2-11-69, Cl. 340-172.5

Bahnson Company, The: *See—*
Avera, William W., 3,431,717.
Avera, William W., 3,470,680.
King, James Frank, 3,476,078.
King, James Frank, Jr.; and Davis, William R., 3,454,484.
King, James Frank, Jr., 3,483,675.

Bahnson Company,The: *See—*
King,James F.,Jr., 3,486,184.

Bahouth, Tayseer G.: *See—*
De Voldre, Joseph J.; Baran, Francis R.; and Bahouth, Tayseer G.,3,437,598.

Bahr, Albert. Sludge treating and moving apparatus for dry beds of sewage plants. 3,473,185, 10-21-69, Cl. 15-246.5

Bahr, Albert. Dry bed installation for drying sludge in sewage clearing plants. 3,477,578, 11-11-69, Cl. 210-138.

Bahr, Karl E.; Griswold, Augustus W.; Price, Aldon A.; and Young, Charles R., to Xerox Corporation. Modular sheet distributor. 3,460,824, 8-12-69, Cl. 270-58.

Bahr, Ulrich; Suling, Carlhans; Nischk, Gunther; and Szita, Jeno, to Farbenfabriken Bayer Aktiengesellschaft. N'-substituted N-(amidosulfonyl)- sulfonic acid amides. 3,483,208, 12-9-69, Cl. 260-293.4

Bahr, Ulrich: *See—*
Szita, Jeno; Bahr, Ulrich; Wieden, Horst; Marzolph, Herbert; and Nischk, Gunther,3,478,001.
Wieden, Horst; Bahr, Ulrich; and Nischk, Gunther,3,442,885.

Bahr, Werner: *See—*
Vogt, Wilhelm; and Bahr, Werner,3,474,570.

Bahra, Mamoun: *See—*
Zahn, Helmut; and Bahra, Mamoun,3,484,272.

Bahre-Metallwerk K.G.: *See—*
Grelle, Horst, 3,435,979.

Bahrs, David L.: *See—*
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,471,834.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,154.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,155.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,156.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,478,320.

Bahrs, David L.; and Couleur, John F., to General Electric Company. Data processing system including means for masking program interrupt requests. 3,479,649, 11-18-69, Cl. 340-172.5

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A., to General Electric Company. Data processing system employing indirect character addressing capability. 3,425,039, 1-28-69, Cl. 340-172.5

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A., to General Electric Company. Data processing system including address development apparatus. 3,454,931, 7-8-69, Cl. 340-172.5

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A., to General Electric Company. Data processing system employing indirect addressing apparatus. 3,454,932, 7-8-69, Cl. 340-172.

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W., to General Electric Company. Data processing system. 3,454,933, 7-8-69, Cl. 340-172.5

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A., to General Electric Company. Address development apparatus for a data processing system. 3,454,934, 7-8-69, Cl. 340-172.5

Bahrs, David L.; Couleur, John F.; Ruth, Richard L.; and Shelly, William A., to General Electric Company. Intercommunicating multiple data processing system. 3,483,525, 12-9-69, Cl. 340-172.5

Bahrs, George S.; and Mc Whorter, Malcolm M., to Hewlett-Packard Company. Regulated power supply having current comparator referenced to common conductor. 3,441,833, 4-29-69, Cl. 323-9.

Baia Corporation: *See—*
Husted, David W., 3,446,549.
Pezza, Lazzaro, 3,456,425.

Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna. Demethanization of separated liquid through heat exchange with separated vapor. 3,442,090, 5-6-69, Cl. 62-23.

Baicker, Joseph A.; and Sayres, Alden R., to Princeton Gamma-Tech, Inc. Low temperature system. 3,483,709, 12-16-69, Cl. 62-45.

Baier, Edwin: *See—*
Springer, Hartmut; and Baier, Edwin,3,426,016.

Baier, Frederick J.; and Vierow, William F., to Mallory, P. R., & Co., Inc. Powder on foil capacitor. 3,465,426, 9-9-69, Cl. 29-570.

Baier, Robert J., to Boeing Company, The. Shaft damper. 3,425,239, 2-4-69, Cl. 64-6.

Baier, Robert J.; and Mack, John C., to Boeing Company, The. Power transmission system. 3,420,072, 1-7-69, Cl. 64-1.

Baier, William E., Jr.: *See—*
Adair, James C.; Baier, William E., Jr.; Gilmore, Ronald P.; and Wottlin, William O.,3,483,505.

Baigas, Joseph F., Jr.: *See—*
Hamilton, Milon J.; Baigas, Joseph F., Jr.; Haynes, John T.; and Coates, Herbert W.,3,459,631.

Bailey, Alfred J.; and Greig, James D., to Massey-Ferguson Services N.V. Tractor hitch. 3,434,737, 3-25-69, Cl. 280-461.

Bailey, B. W., & Son Limited: *See—*
Eurich, James Victor, 3,440,948.

Bailey, Brian Edward; and Dando, Vivian Charles Owen, to International Synthetic Rubber Company Limited, The. Alkyd resin-depolymerized polymer blends. 3,480,576, 11-15-69, Cl. 260-22.

Bailey, Charles R., to Murphy, F. F. Double refuse can holder. 3,479,047, 11-18-69, Cl. 280-47.19

Bailey, Christopher E. G.; and Metcalf, Eric, to Solartron Electronic Group Limited, The. Digital voltmeter controlled by increments of electrical charge applied to a capacitor feedback amplifier. 3,439,272, 4-15-69, Cl. 324-111.

Bailey, Christopher E. G.: *See—*
Charter, Ian G.; Miles, Sydney F.; and Bailey, Christopher E. G.,3,422,258.

Bailey, Colin; and Evans, Michael Ernest Newcombe, to National Research Development Corporation. Mixing processes. 3,467,362, 9-16-69, Cl. 259-14.

Bailey Company, Inc., The: *See—*
Olson, Harold G.; and Johnson, Leonard W., 3,456,410.

Bailey, Denis M., to Sterling Drug, Inc. Certain 2-anilino-pyridine derivatives. 3,450,707, 6-17-69, Cl. 260-296.

Bailey, Don R., to Cardinal Scale Manufacturing Co. Scale potentiometer mounting. 3,444,944, 5-20-69, Cl. 177-210.

Bailey, Donald L.: *See—*
Jex, Victor B.; and Bailey, Donald L.,3,455,725.

Bailey, Donald L.; and O'Connor, Francis M., to Union Carbide Corporation. Organo-Silicone block copolymers. 3,480,583, 11-25-69, Cl. 260-46.5

Bailey, Dunn M., to Phillips Petroleum Company. Recovery of entrained liquid refrigerant. 3,474,633, 10-28-69, Cl. 62-45.

Bailey, Earl L. Coil spring and lever action axle assembly. 3,459,438, 8-5-69, Cl. 280-124.

Bailey, Edward A.; and Beaumont, Richard W., to Joy Manufacturing Company. Percussion tool. 3,446,294, 5-27-69, Cl. 173-134.

Bailey, Ernest L.; Cote, Raymond A.; and Schrier, Bruce H., to Riegel Paper Corporation. Bulging cartons. 3,447,672, 6-3-69, Cl. 206-45.31

Bailey, Fay W., to Phillips Petroleum Company. Foamed vulcanized solid polymers. 3,444,106, 5-13-69, Cl. 260-2.5

Bailey, Ferrall W., 1/5 interest to Donaldson, John W. Gas mileage booster. 3,473,522, 10-21-69, Cl. 123-122.

Bailey, Francis M., to General Electric Company. Error circuit with means for reducing excitation currents for rotating transformer input. 3,457,495, 7-22-69, Cl. 323-53.

Bailey, Francis M.; and Cronquist, William E., to General Electric Company. Distance sensing system for railroads based on track inductance characteristics. 3,484,687, 12-16-69, Cl. 324-71.

Bailey, Francis T.; and Morgan, Stanley E., to Westinghouse Electric Corporation. Warp tension control means. 3,429,016, 2-25-69, Cl. 28-36.

Bailey, Frank T., Jr. Masonry blocks. 3,449,880, 6-17-69, Cl. 52-309.

Bailey, Frederick Arthur; and Montgomery, William H., to Rotaflex of Canada Limited. Lamp housing. 3,446,955, 5-27-69, Cl. 240-46.59

Bailey, George A., to Schering Corporation. Denture spray. 3,431,208, 3-4-69, Cl. 252-106.

Bailey, George M.: *See—*
Olson, Danford H.; and Bailey, George M.,3,420,902.

Bailey, Hubert Charles; Williamson, John Bentley; and Capp, Clifford William, to Distillers Company Limited, The. Production of dienes. 3,439,058, 4-15-69, Cl. 260-669.

Bailey, Irwin, 1/2 to Hedaya, Maurice. Product display and method of assembly thereof. 3,464,545, 9-2-69, Cl. 206-80.

Bailey, James R.; and Bokosky, Robert J., to Switchcraft, Inc. Electromagnetic signal device having movable permanent magnet. 3,422,426, 1-14-69, Cl. 340-373.

Bailey, James R.; and Bokosky, Robert J., to Switchcraft Inc. Panel mounting for electrical components and the like. 3,446,467, 5-27-69, Cl. 248-27.

Bailey, James R.; and Lavigne, Vernon W., to Switchcraft, Inc. Lever switch having means to avoid transient switching. 3,433,906, 3-18-69, Cl. 200-1.

Bailey, James R.; and Lutzenberger, Kurt, to Switchcraft Inc. Phone jack having a hollow housing with contact elements interfittingly secured therein. 3,435,163, 3-25-69, Cl. 200-51.1

Bailey, James R.; and Lutzenberger, Kurt, to Switchcraft, Inc. Slide switch. 3,485,966, 12-23-69, Cl. 200-16.

Bailey, Jay R.: *See—*
Tyrrell, Vincent C.; and Bailey, Jay R.,3,485,117.

Bailey, John D., to Pullman Incorporated. Double plug door sealing arrangement. 3,452,481, 7-1-69, Cl. 49-485.

Bailey, John E., to Foxboro Company, The. Magnetic flowmeter apparatus. 3,433,066, 3-18-69, Cl. 73-194.

Bailey, John M., Jr., to Xerox Corporation. Variable font character generator. 3,422,737, 1-21-69, Cl. 95-4.5

Bailey, John M., to Caterpillar Tractor Company. Engine fuel injection valve assembly. 3,431,895, 3-11-69, Cl. 123-32.

Bailey, John M.; and Gates, Marvin A., to Caterpillar Tractor Company. Maximum-minimum governor with torque spring for improving engine performance during overloading. 3,426,739, 2-11-69, Cl. 123-140.

Bailey, John M.; Glassey, Stephen F.; and Staniak, Waldemar A., to Caterpillar Tractor Company. Centrifugal flyweight engine governor. 3,451,405, 6-24-69, Cl. 137-18.

Bailey, John M.; and Joy, Marion R., to Caterpillar Tractor Company. Fuel injection valve. 3,444,886, 5-20-69, Cl. 137-541.

Bailey, John M.; Krauja, Ziedonis I.; and Tegg, Ralph , Jr., to Caterpillar Tractor Company. Rotary distributor fuel pump. 3,485,225, 12-23-69, Cl. 123-139.
Bailey, John T., to United States Steel Corporation. Motor reversing circuit. 3,484,672, 12-16-69, Cl. 318-251.
Bailey, Joseph T.: *See—*
Mann, Roger H.; and Bailey, Joseph T.,3,471,431.
Bailey, Joseph, to Eastman Kodak Company. Oxonol dyes for light filtering layers in photographic elements. 3,440,051, 4-22-69, Cl. 96-84.
Bailey, Joseph, to Eastman Kodak Company. Oxonol dyes for light filtering layers in photographic elements. 3,468,883, 9-23-69, Cl. 260-240.2
Bailey, Joseph, to Eastman Kodak Company. Light absorbing dyes derived from barbituric and 2-thiobarbituric acid compounds useful for photography and their preparation. 3,469,985, 9-30-69, Cl. 96-84.
Holstead, Colin; Bailey, Joseph; and Jeffreys, Roy A.,3,455,687.
Bailey, Kenneth E.; Frahm, Leland J.; and Leigh, Theodore M., to FMC Corporation. Diesel pilehammer. 3,437,157, 4-8-69, Cl. 173-133.
Bailey, Merrill E.: *See—*
Sauder, Robert A.; Christopher, William H., Jr.; and Bailey, Merrill E.,3,432,991.
Bailey Meter Company: *See—*
Abbott, Ralph E., 3,480,476.
Baumgartel, Frank A., 3,480,397.
Cohen, Kenneth W., 3,468,326.
Gardiner, Roy W.; Melville, Victor J.; and Yager, Norman J., 3,461,725.
Golden, Raymond; Murzyn, Robert A.; and Wilson, William E., 3,476,945.
Hornfeck, Anthony J.; Koppel, Harold H.; and Louis, John R., 3,479,492.
Koppel, Harold H., 3,422,457.
Koppel, Harold H., 3,436,557.
Shannon, Jack F.; and Adams, James, 3,422,675.
Wajs, Philip I., 3,436,559.
Bailey, Percival William: *See—*
Crossley, Henry Morton; and Bailey, Percival William,3,439,620.
Bailey, Peter R. Method of packing pile fabric and package resulting therefrom. 3,420,365, 1-7-69, Cl. 206-59.
Bailey, Philip G., to Smith Kline & French Laboratories. Machine for treating capsules. 3,466,842, 9-16-69, Cl. 53-124.
Bailey, Philip S.: *See—*
Chang, Yun G.; and Bailey, Philip S.,3,479,372.
Bailey, Philip S.; and Chang, Yun Ger, to Reichhold Chemicals Inc. Preparation of peroxy-esters by reaction of a peracetal and a base. 3,427,341, 2-11-69, Cl. 260-453.
Bailey, Randal E., to Olin Mathieson Chemical Corporation. Process for the manufacture of monomethylhydrazine. 3,423,464, 1-21-69, Cl. 260-583.
Bailey, Randal E.: *See—*
Kippur, Perry R.; and Bailey, Randal E.,3,428,681.
Bailey, Ray V.: *See—*
Roy, Melvin C., 3,448,933.
Bailey, Richard B. Toy bank. 3,464,693, 9-2-69, Cl. 273-1.
Bailey, Robert A.: *See—*
Meyers, Willis G.; and Bailey, Robert A.,3,473,813.
Bailey, Robert Linton; and Doner, Claude Edward, to RCA Corporation. Paralleling active circuit elements. 3,477,032, 11-4-69, Cl. 330-30.
Bailey, Robert L., to National Distillers and Chemical Corporation. Contaminated air detector using radiant energy sensitive means. 3,449,584, 6-10-69, Cl. 250-218.
Bailey, Robert L., to National Distillers and Chemical Corporation. Control atmosphere for gas sampling apparatus. 3,449,958, 6-17-69, Cl. 73-421.5
Bailey, Robert L., to National Distillers and Chemical Corporation. Bottle puncturing apparatus. 3,460,422, 8-12-69, Cl. 83-270.
Bailey, Robert L., to National Distillers and Chemical Corporation. Handle device. 3,469,728, 9-30-69, Cl. 215-100.
Bailey, Roy W. Facting machine. 3,439,456, 4-22-69, Cl. 51-125.
Bailey, Shady O., to United States of America, Navy. Stress corrosion cell. 3,449,232, 6-10-69, Cl. 204-195.
Bailey, Sidney W.; and Montgomery, John R., to Sybron Corporation. Brake, lock and release mechanism for automatic rewind reels. 3,462,096, 8-19-69, Cl. 242-107.7
Bailey, Thomas E., to General Motors Corporation. Level sensing monostable multivibrator. 3,456,130, 7-15-69, Cl. 307-273.
Bailey, Victoria A.; and Dressel, Max C. Swimming pool cover and method of covering a pool. 3,426,366, 2-11-69, Cl. 4-172.
Bailey, William C. Bedside holder for cleaning tissue box. 3,482,810, 12-9-69, Cl. 248-311.
Bailey, William F.; and Hellmann, Reinhard K., to Hazeltine Research, Inc. Apparatus utilizing magnetostrictive member for measuring linear displacement between two bodies. 3,423,673, 1-21-69, Cl. 324-34.
Bailie, Robert E., to Westinghouse Electric Corporation. Distillate cooling means for flash evaporators. 3,448,013, 6-3-69, Cl. 202-173.
Bailie, Stanley B.: *See—*
Atkins, Stanley G.; and Bailie, Stanley B.,3,443,649.
Atkins, Stanley G.; and Bailie, Stanley B.,3,469,638.
Atkins, Stanley G.; and Bailie, Stanley B.,3,482,641.
Baillargeon, Marlin P., to Fabri-Tek Incorporated. Method of stringing magnetic core apparatus. 3,427,711, 2-18-69, Cl. 29-604.
Baille, Michel, to Foseco International Limited. Modification of aluminum-silicon alloys. 3,486,884, 12-30-69, Cl. 75-68.
Bailleau, Gilbert, to Cellophane Investment Co., Ltd. Apparatus for separating the components of a suspension. 3,429,256, 2-25-69, Cl. 100-121.
Bailleul-Langlais, Josette; Neuville, Jean; and Veilex, Robert, to U.S. Philips, Corporation, mesne. Ultra-high vacuum device. 3,446,422, 5-27-69, Cl. 230-45.
Baillie, Douglas J. Controlled force friction draft gear. 3,468,432, 9-23-69, Cl. 213-37.
Baillie, Robert A.; and Malmberg, Earl W., to Great Canadian Oil Sands Limited. Removal of clay from the water streams of the hot water process by flocculation. 3,487,003, 12-30-69, Cl. 208-111.
Bailly, Francis: *See—*
Marfaing, Yves; Bailly, Francis; Cohen-Solal, Gerard; and Rodot, Michel,3,472,685.
Baily, Jack H.; and Sterling, Eli, to Steam Sales & Service Co. Garment blocking. 3,473,245, 10-21-69, Cl. 38-141.
Baily, William E.; and Colombo, Roberto L., to Westinghouse Electric Corporation. Method of making non-metallic swaged fuel elements. 3,429,025, 2-25-69, Cl. 29-420.5
Bain, Jack M.: *See—*
Smith, Chloey L.; and Bain, Jack M.,3,456,822.
Bain, Louis Marie Joseph Pierre; and Mege, Paul Andre, to Mac Gregor-Comarain. Sliding and tiltable hatch covers. 3,463,111, 8-26-69, Cl. 114-202.
Bainbridge, Ian Frank: *See—*
Strong, Frederick James; and Bainbridge, Ian Frank,3,471,286.
Baines, Frederick; and Tunnell, Frank Geoffrey, to Plessey Company Limited, The. Displacement pumps and/or motors having sliding vanes. 3,450,057, 6-17-69, Cl. 103-136.
Baines, Frederick; and Tunnell, Frank Geoffrey, to Plessey Company Limited, The. Hydraulically steering devices for vehicles. 3,463,260, 8-26-69, Cl. 180-79.2
Baines, Harry A.; and Flood, Carl A., to Dennison Manufacturing Company. Apparatus for applying indicia to articles. 3,483,063, 12-9-69, Cl. 156-517.
Bains, William R., to Philco-Ford Corporation. Fluid flow control apparatus. 3,421,324, 1-14-69, Cl. 60-231.
Bair, Robert Lee, to Bliss, E. W., Company. Electrodynamic brake of magnetic fluid type. 3,447,006, 5-27-69, Cl. 310-93.
Bair, Robert L.; and Thompson, Charles S., to Bliss, E. W., Company. Woven tape for aircraft launching and arresting apparatus. 3,441,237, 4-29-69, Cl. 244-110.
Bair, Roger I. Ladder having telescoping section. 3,428,146, 2-18-69, Cl. 182-118.
Baird and Tatlock (London) Limited: *See—*
Goodwin, Alfred S., 3,428,781.
Robertson, Gavin W. E.; and Dyson, Cyril W. C., 3,477,478.
Baird Chemical Industries, Inc.: *See—*
Dadekian, Zaven A.; and Wilbourn, David S., 3,432,561.
Dadekian, Zaven A., 3,440,283.
Dadekian, Zaven A.; and Wilbourn, David S., 3,471,561.
Dadekian, Zaven A.; and Wilbourn, David S., 3,472,900.
Baird, David W. Supporting unit. 3,460,790, 8-12-69, Cl. 248-165.
Baird, Donald H.; and Natansohn, Samuel, to General Telephone & Electronics Laboratories, Incorporated. Cadmium-substituted ferrite materials. 3,440,169, 4-22-69, Cl. 252-62.62
Baird, James L., to Artisan Industries, Inc. Multistage evaporator system for the separation of monomer-solvent mixtures. 3,449,216, 6-10-69, Cl. 202-173.
Baird, Leonard J. Moveable louvered shutter. 3,455,057, 7-15-69, Cl. 49-64.
Baird, Leslie L., to General Electric Company. Circuit breaker contact structure with releasably latched stationary contact for making circuit. 3,430,018, 2-25-69, Cl. 200-146.
Baird, Leslie L., to General Electric Company. Metal plate type of arc-extinguishing device. 3,440,378, 4-22-69, Cl. 200-144.
Baird, Leslie L.; and Baskerville, Ralph J., to General Electric Company. Contact structure for an electric circuit breaker. 3,433,915, 3-18-69, Cl. 200-166.
Baird, Truette H., to Stevens Hosiery Division of Stevens, J. P., & Co., Inc. Hosiery take-up and delivery apparatus. 3,426,552, 2-11-69, Cl. 66-149.
Baird, Truette H., to Stevens Hosiery, division of Stevens, J.P., & Co., Inc. Anti-twist insert for circular knitting machines and method. 3,479,842, 11-25-69, Cl. 66-149.
Baird-Atomic, Inc.: *See—*
Fitzmaurice, John A.; and Vaughan, William, 3,461,301.
Magrath, Richard A., 3,457,002.

Baitinger, William Frederick, Jr., to American Cyanamid Company. Light sensitive article coated with virgin polyvinyl chloride and ultraviolet light absorber. 3,429,732, 2-25-69, Cl. 117-33.3

Baitinger, William Frederick, Jr., to American Cyanamid Company. Stabilized pigmented polymers. 3,470,131, 9-30-69, Cl. 260-41.

Baizer, Manuel M., to Monsanto Company. Electrolytic reductive coupling of azo compounds. 3,438,877, 4-15-69, Cl. 204-73.

Baizer, Manuel M., to Monsanto Company. Electrolytic reductive coupling of olefinic compounds. 3,440,154, 4-22-69, Cl. 204-73.

Bajars, Laimonis, to Petro-Tex Chemical Corporation. Process for dehydrogenation. 3,440,298, 4-22-69, Cl. 260-680.

Bajars, Laimonis, to Petro-Tex Chemical Corporation. Process of dehydrogenation. 3,442,968, 5-6-69, Cl. 260-680.

Bajcar, Miles S.: *See—*
Crawford, Louis L.; Christensen, Thor E.; Sondej, Vincent S.; and Bajcar, Miles S.,3,461,482.

Bajcar, Miles S.; Madsen, Ditlev Peder; and Sondej, Vincent S., to Chemetron Corporation. Product treatment apparatus. 3,482,508, 12-9-69, Cl. 99-254.

Bajer, Frantisek: *See—*
Jindrich, Emil; and Bajer, Frantisek,3,426,709.
Jindrich, Emil; and Bajer, Frantisek,3,428,006.

Bajer, Jacques J., to Ford Motor Company. Wheel rim and balancing weight for a motor vehicle. 3,462,197, 8-19-69, Cl. 301-5.

Bakalar, David: *See—*
Navon, David H.; and Bakalar, David,3,461,436.

Bakalyar, Stephen R.; and Kramasz, Joseph, Jr., to Varian Associates. Method and apparatus for chromatography. 3,446,057, 5-27-69, Cl. 73-23.1

Bakan, Joseph A., to National Cash Register Company, The. Process for making capsules and method of making premix used therein. 3,436,355, 4-1-69, Cl. 252-316.

Bakan, Joseph A.; and Crainich, Victor A., Jr., to National Cash Register Company, The. Battery forming device. 3,440,106, 4-22-69, Cl. 136-114.

Bakardjiev, Stefan T.; Stantchev, Ivan Tenev; and Antonov, Dubomir Iordanov, to Zentralen Institut Po Iztchislitelna Technika. Printing assembly controlled by electric pulses. 3,422,754, 1-21-69, Cl. 101-79.

Bakelite Xylonite Limited: *See—*
Deasy, Peter J., 3,485,345.
Millane, James J., 3,468,839.
Penneck, Richard J., 3,448,067.
Porter, Philip S., 3,468,736.
Wright, Reginald E., 3,439,951.

Baker & Gubbins Co.: *See—*
Hentschel, Rudolf G., 3,452,710.

Baker, Alex Gerard James: *See—*
Daly, Brian Bowman; Baker, Alex Gerard James; and Anderson, Joseph Percival,3,433,145.

Baker, Alfred Dickens, to Lucas, Joseph, (Industries) Limited. Alternator with a built-in full wave rectifier. 3,422,339, 1-14-69, Cl. 321-8.

Baker, Alfred Dickens, to Lucas, Joseph, (Industries) Limited. Rear view mirrors for road vehicles. 3,485,470, 12-23-69, Cl. 248-484.

Baker, Alfred Dickens; and Howes, Maurice Albert Henry, to Lucas, Joseph, (Industries) Limited. Interdigitated rotor arrangement for alternator. 3,450,913, 6-17-69, Cl. 310-159.

Baker, Alfred. Self-cleaning high lift bucket. 3,438,526, 4-15-69, Cl. 214-767.

Baker, Alfred. Excavating bucket digging blade. 3,478,449, 11-18-69, Cl. 37-141.

Baker, Allen G., to Sylvania Electric Products, Inc. Method of forming adherent masks on oxide coated semiconductor bodies. 3,482,977, 12-9-69, Cl. 96-36.2

Baker, Allen G.; and Dale, Brian, to Sylvania Electric Products Inc. Method of producing semiconductor devices. 3,421,204, 1-14-69, Cl. 29-577.

Baker, Allen G.; and Dale, Brian, to Sylvania Electric Products, Inc. Method of producing an array of semiconductor elements. 3,456,334, 7-22-69, Cl. 29-577.

Baker, Allen G.; and Ingraham, Robert C., to Sylvania Electric Products Inc. Method of forming leads on semiconductor devices. 3,421,206, 1-14-69, Cl. 29-589.

Baker, Allen G.; and Ingraham, Robert C., to Sylvania Electric Products Inc. Method of producing semiconductor devices having connecting leads attached thereto. 3,421,985, 1-14-69, Cl. 204-15.

Baker, Allen J.; Death, Frank S.; Myers, Richard C.; and Farnsworth, Walter B., to Union Carbide Corporation. Method and apparatus for melting metal in an electric furnace. 3,422,206, 1-14-69, Cl. 13-34.

Baker, Allister L., to United States of America, Army, mesne. Optical deviators. 3,442,578, 5-6-69, Cl. 350-286.

Baker, Arthur Y., Jr.; and Lindsay, Lonnie K., to Century Geophysical Corporation. Compensation control system for cathode-ray recording tube. 3,482,255, 12-2-69, Cl. 346-110.

Baker, Basil Offor, to M-O Value Company Limited, The. Gas-filled electric discharge devices. 3,479,549, 11-18-69, Cl. 313-195.

Baker, Bernard S.: *See—*
Linden, Henry R.; Baker, Bernard S.; Meek, John; and Allen, Arthur C.,3,438,759.

Baker, Bernard Stuart, to Courtaulds Limited. Peak load detectors. 3,477,286, 11-11-69, Cl. 73-95.

Baker, Bernard Stuart, to Courtaulds Limited. Apparatus for the measurement of length. 3,482,320, 12-9-69, Cl. 33-143.

Baker, Bernard Stuart, to Courtaulds Limited. Tensile testing apparatus. 3,482,439, 12-9-69, Cl. 73-95.5

Baker, Bertrand M. Webbed furniture construction. 3,464,479, 9-2-69, Cl. 160-327.

Baker, Bert. Device for mixing and applying foams. 3,424,439, 1-28-69, Cl. 259-4.

Baker Bros. Inc.: *See—*
Geilert, Georg Erick Max, 3,455,809.

Baker, Bryant. Ski pole with liquid container. 3,443,820, 5-13-69, Cl. 280-11.37

Baker, Charles D.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,464,051.
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,642.

Baker, Charles Edward, II; and Casciotti, Albert, to AMP Incorporated. Electrical connector having contact terminals with terminal posts. 3,440,597, 4-22-69, Cl. 339-221.

Baker, Charles E., 1/2 to Davis, Dwane L. Ladder bracket. 3,420,486, 1-7-69, Cl. 248-210.

Baker, Charles E.; Martel, Bob E.; and Slocum, George J., to Texas Instruments, Incorporated. Resonant scanning apparatus for deflecting a mirror. 3,471,641, 10-7-69, Cl. 178-7.6

Baker, Charles E.; and Penn, William D., to Texas Instruments, Incorporated. Torsional vibrator light beam scanner. 3,437,393, 4-8-69, Cl. 350-6.

Baker, Charles J.; and Van Raden, Frederick F., to Peerless Trailer and Truck Service, Inc. Trailer dumper. 3,476,269, 11-4-69, Cl. 214-2.

Baker, Charles Ovid, to Mobil Oil Corporation. Subsea production system. 3,469,627, 9-30-69, Cl. 166-0.5

Baker, Clarence E. Actuating mechanism for telescopingly extensible elevating devices. 3,485,479, 12-23-69, Cl. 254-148.

Baker, Colin, to Reynolds Metals Company. Composite metallic articles. 3,469,952, 9-30-69, Cl. 29-191.4

Baker, Dale C.: *See—*
Howard, Robert C.; and Baker, Dale C.,3,476,482.

Baker, Don A.: *See—*
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John,3,441,775.

Baker, Don R., to Stauffer Chemical Company. Bis-sulfonyl dihalomethanes as fungicides and bactericides. 3,426,138, 2-4-69, Cl. 424-337.

Baker, Don R.; Brokke, Mervin E.; and McClellan, Malcolm B., to Stauffer Chemical Company. 3,4-Dichlorocoumarin bacteriostatic and fungistatic methods. 3,472,927, 10-14-69, Cl. 424-45.

Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B., to Stauffer Chemical Company. N-substituted phenylsulfonylhydroxylamines. 3,458,570, 7-29-69, Cl. 260-545.

Baker, Don R.; Pacini, Harry A.; and Williamson, Thomas B., to Stauffer Chemical Company. Fluorine-containing ethyl disulfides. 3,474,146, 10-21-69, Cl. 260-608.

Baker, Don R.: *See—*
Tilles, Harry; Baker, Don R.; and Dewald, Chester L.,3,480,671.

Baker, Donal E.: *See—*
Skamfer, Robert E.; and Baker, Donal E.,3,486,038.

Baker, Donald E.; and Eck, John E., to Nuclear Materials and Equipment Corporation. Method of and apparatus for producing coated particles. 3,440,085, 4-22-69, Cl. 117-100.

Baker, Donald Ernest, to Oakes, E. T., Corporation, The. Production of dough. 3,456,599, 7-22-69, Cl. 107-30.

Baker, Donald J., deceased0 (by Baker, Ruura E.; widow). Phonograph tone arm assembly. 3,485,501, 12-23-69, Cl. 274-23.

Baker, Donald J.: *See—*
Runkle, Deane E.; and Baker, Donald J.,3,463,261.

Baker, Edgar G.: *See—*
Frieder, Leonard P.; and Baker, Edgar G.,3,445,868.

Baker, Edmond M.: *See—*
Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M.,3,452,804.

Baker, Edward S., to Boeing Company, The. Ambient light controlled solid state relay. 3,421,005, 1-7-69, Cl. 250-206.

Baker, Edward S., to Boeing Company, The. Application of power at zero reference time. 3,443,204, 5-6-69, Cl. 323-24.

Baker, Edward T.: *See—*
Saubestre, Edward B.; and Baker, Edward T.,3,484,270.

Baker, Elizabeth F.: *See—*
Baker, Richard E.; and Baker, Elizabeth F.,3,472,508.

Baker, Ernest C., to Newey Goodman Limited. Display packs. 3,480,138, 11-25-69, Cl. 206-78.

Baker, Eugene E., to Halliburton Company. Apparatus for controlling the partial filling of a well conduit string and controlling flow through the conduit string. 3,481,397, 12-2-69, Cl. 166-225.
Baker, Evelyn B.; and Freitag, Walter O., to Sperry Rand Corporation. Method of etching tantalum. 3,444,015, 5-13-69, Cl. 156-11.
Baker, Franklin Albert, to Battelle Memorial Institute. Method of and apparatus for producing particles in a metastable state. 3,446,959, 5-27-69, Cl. 250-49.
Baker, Glenn O. Tropical fish feeding device. 3,464,386, 9-2-69, Cl. 119-5.
Baker, Harold L., to Morrison Products, Inc. Centrifugal blower wheel and method of fabricating the same. 3,423,012, 1-21-69, Cl. 230-134.
Baker, Hayward R.: *See*—
Test, Robert L.; Baker, Hayward R.; and Nebelung, Raymond G.,3,457,881.
Baker, Henry W., to Pilkington Brothers Limited. Method for toughening sheets of glass. 3,429,682, 2-25-69, Cl. 65-115.
Baker, Henry W., to Pilkington Brothers Limited. Apparatus for toughening sheets of glass. 3,429,685, 2-25-69, Cl. 65-348.
Baker, Homer C. Backstop positioning gage. 3,452,441, 7-1-69, Cl. 33-185.
Baker, Hugh J., & Company: *See*—
Smith, James R.; Herrell, Robert C.; and Burch, James B., 3,456,899.
Baker, Hugh M., Jr., to HB Engineering Corporation. Switch having a balance armature to prevent contact bounce. 3,437,961, 4-8-69, Cl. 335-193.
Baker, Hugh M., Jr., to HB Engineering Corporation. Oscillating resonator. 3,453,464, 7-1-69, Cl. 310-36.
Baker, Ian P. S.; and Wade, Kenneth R., to United Gas Industries Limited. Gas heater. 3,428,040, 2-18-69, Cl. 126-110.
Baker, J. T., Chemical Company: *See*—
Michelotti, Francis W.; and Zief, Morris, 3,459,828.
Schramm, Charles H.; and Schmidle, Claude J., 3,454,622.
Schramm, Charles H.; and Schmidle, Claude J., 3,458,527.
Zief, Morris; and Schramm, Charles H., 3,448,094.
Baker, James A., to Cornell Research Foundation, Inc. Protecting horses against infectious equine rhinopneumonitis with live bovine rhinotracheitis virus inoculation. 3,465,077, 9-2-69, Cl. 424-89.
Baker, James B., to Xerox Corporation. Xerographic fusing system. 3,437,407, 4-8-69, Cl. 95-1.7
Baker, James E.; and Walters, Fred L., III. Tree climbing-hunting platform. 3,460,649, 8-12-69, Cl. 182-187.
Baker, James G., to Polaroid Corporation. Multiple-axis folded optical system for a photographic camera. 3,478,662, 11-18-69, Cl. 95-15.
Baker, James W., to Hunter Structures, Inc. Imitation Spanish tile. 3,485,002, 12-23-69, Cl. 52-314.
Baker, John F.; Rodrigo, Harry G.; and Ryan, Joseph A., to United States of America, Army. High speed sequential switch. 3,422,237, 1-14-69, Cl. 200-61.45
Baker, John Gordon. Hydrofoil system for boats. 3,465,704, 9-9-69, Cl. 114-66.5
Baker, John Gordon; and Lien, Neil C., to Baker Manufacturing Company, Inc. Well cap and seal therefor. 3,473,573, 10-21-69, Cl. 138-89.
Baker, John Gordon; and Lien, Neil C., to Baker Manufacturing Company, Inc. Pitless booster pump unit. 3,482,522, 12-9-69, Cl. 103-87.
Baker, John H., Jr., to Schlumberger Technology Corporation. Nuclear magnetism signal analyzing system. 3,479,579, 11-18-69, Cl. 324-0.5
Baker, John H., Jr., to Schlumberger Technology Corporation. Nuclear magnetism logging system utilizing an oscillated polarizing field. 3,483,465, 12-9-69, Cl. 324-0.5
Baker, John T. Operable finger ring with pivoted locking element. 3,465,543, 9-9-69, Cl. 63-15.5
Baker, Joseph L., to Baker-Lewis Music Enterprises, Inc. Stringed instrument construction. 3,440,919, 4-29-69, Cl. 84-291.
Baker, Joseph W., to Monsanto Company. Nitrotrifluoromethylanilides. 3,426,049, 2-4-69, Cl. 260-404.
Baker, Joseph W., to Monsanto Company. 2-Oxo-tetrahydrofuranyl compounds in insecticidal compositions and methods. 3,426,127, 2-4-69, Cl. 424-203.
Baker, Joseph W.; Groenweghe, Leo C. D.; and Stenseth, Raymond E., to Monsanto Company. Preparation of organothiophosphorus halides. 3,457,305, 7-22-69, Cl. 260-543.
Baker, Joseph W.; and Stenseth, Raymond E., to Monsanto Company. Preparation of phosphorus halides. 3,429,916, 2-25-69, Cl. 260-543.
Baker, Joseph W.; and Stenseth, Raymond E., to Monsanto Company. Preparation of organothiophosphorus halides. 3,457,306, 7-22-69, Cl. 260-543.
Baker, Leonard, to United Aircraft Corporation. Dynamic transfer networks. 3,469,213, 9-23-69, Cl. 333-70.
Baker, Lionel Richard, to British Scientific Instrument Research Association. Radiation sensitive apparatus for measuring linear dimensions. 3,450,889, 6-17-69, Cl. 250-219.
Baker, Lionel Richard; Bertoya, Hastings Charles Maxim; Mann, John Raymond; and Whyte, James Norwood, to National Research Development Corporation. Apparatus for, and methods of, testing lenes. 3,436,154, 4-1-69, Cl. 356-124.
Baker, Loretta C., to Storm Products Company. Dressmaker's turntable. 3,455,531, 7-15-69, Cl. 248-349.
Baker Manufacturing Company, Inc.: *See*—
Baker, John Gordon; and Lien, Neil C., 3,473,573.
Baker, John Gordon; and Lien, Neil C., 3,482,522.
Baker, Nelson E. Ingot stripping mechanism with spherical tapered roller bearings. 3,460,610, 8-12-69, Cl. 164-405.
Baker Oil Tools, Inc.: *See*—
Castro, Luis F.; Keithahn, Julian D.; Leutwyler, Kurt; and Oden, Jerome H., 3,472,275.
Chenoweth, David V., 3,433,174.
Chenoweth, David V., 3,452,776.
Chenoweth, David V., 3,455,382.
Chenoweth, David V., 3,456,728.
Chenoweth, David V., 3,472,070.
Chenoweth, David V., 3,474,859.
Clark, Earnest H., Jr.; De Rochemont, John F.; and Keithahn, Julian D., 3,433,303.
Conrad, Martin B., 3,420,307.
Conrad, Martin B., 3,422,897.
Conrad, Martin B., 3,422,901.
Crowe, Talmadge L., 3,433,506.
Myers, William D., 3,424,246.
Myers, William D., 3,456,764.
Salerni, John V.; and de Rochemont, John F., 3,455,380.
Van Winkle, Denzal W.; and Carlisle, Fredrick Madden, 3,437,630.
Baker, Patrick W. Oil seal-dust shield assembly. 3,459,431, 8-5-69, Cl. 277-57.
Baker, Patrick W.; and Kessler, Thomas M., to Dana Corporation. Steering drive axle assembly. 3,472,331, 10-14-69, Cl. 180-43.
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O., to Chevron Research Company. Nuclear precession well logging method. 3,434,044, 3-18-69, Cl. 324-0.5
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O., to Chevron Research Company. Nuclear magnetism well logging method. 3,462,674, 8-19-69, Cl. 324-0.5
Baker Perkins Inc.: *See*—
Cox, Bradley G., 3,451,550.
Evans, Thomas, 3,437,209.
Fierstine, Burton A., 3,463,316.
Henson, Thomas Leslie, 3,486,694.
Loomans, Bernard A., 3,423,074.
Loomans, Bernard A.; Ross, Thomas I.; Balazer, Richard J.; and Scherping, Clarence K., 3,463,459.
Loomans, Bernard A., 3,486,664.
Morren, John E., 3,428,660.
Nelson, Roy Bramwell, 3,472,043.
Temple, Hiram E., 3,450,068.
Temple, Hiram E., 3,463,344.
Temple, Hiram E., 3,466,835.
Temple, Hiram E., 3,466,839.
Temple, Hiram E., 3,482,673.
Todd, David B., 3,486,743.
Wheeler, Dennis A., 3,458,894.
Baker, Ralph C.: *See*—
Godby, Ensley A.; Baker, Ralph C.; and Strome, Murray W.,3,432,751.
Baker, Ralph F., to United States of America, Army, and/or the United States of America, Federal Aviation Administration, Administrator. Failsafe expandable bolt assembly. 3,463,527, 8-26-69, Cl. 287-189.36
Baker, Ralph W.; McCarthy, John H.; Place, Harold G.; and Wikman, Andrew O., to Ethyl Corporation. Manufacture of halohydrocarbons. 3,468,968, 9-23-69, Cl. 260-659.
Baker, Richard E.; and Baker, Elizabeth F. Exercising device for rocking the foot to exercise the lower leg. 3,472,508, 10-14-69, Cl. 272-57.
Baker, Richard W.: *See*—
Maher, Philip K.; Baker, Richard W.; and McDaniel, Carl V.,3,423,332.
Baker, Richard W.; Ciapetta, Frank G.; Wilson, Charles P., Jr.; and Maher, Philip K., to Grace, W. R., & Co. Process for preparing molecular sieve containing cracking catalysts. 3,425,956, 2-4-69, Cl. 252-455.
Baker, Robert A. Panel filter construction. 3,478,483, 11-18-69, Cl. 52-658.
Baker, Robert C. Plane of occlusion indicator. 3,464,115, 9-2-69, Cl. 32-19.
Baker, Robert E.: *See*—
Parks, George A.; and Baker, Robert E.,3,476,552.
Baker, Robert S., to Lilly, Eli, and Company. Virus purification. 3,485,718, 12-23-69, Cl. 195-1.5
Baker Roos, Inc.: *See*—
Herrell, Robert C.; and Roggie, William C., 3,452,837.

Baker, Roy E. Preservative injection machine. 3,450,073, 6-17-69, Cl. 111y6.
Baker, Roy F., to Zenith Radio Corporation. Automatic frequency control system. 3,459,887, 8-5-69, Cl. 178-7.5
Baker, Ruura E.: *See*—
Baker, Donald J.,3,485,501.
Baker, Thomas Nelson, III, to Atlantic Richfield Company. Method for the preparation of N,N-dimethylol aminoalcohols and N,N-dimethyl aminoalcohols. 3,457,313, 7-22-69, Cl. 260-584.
Baker, Thomas Nelson, III; Michalski, Conrad; Sheng, Ming Nan; and Zajacek, John G., to Atlantic Richfield Company. Method for the separation of C_6 to C_{10} alpha olefins from C_6 to C_{10} alpha olefin epoxides by azeotropic and vacuum distillation. 3,480,519, 11-25-69, Cl. 203-55.
Baker, Thomas R.; Hoyrup, Sigurd J.; and Posen, Boris S., to Kliklok Corporation. Conveying device for accelerating and timing articles. 3,452,855, 7-1-69, Cl. 198-34.
Baker, William A.; Hartree, John R.; and Gould, Robert, to Aluminium Laboratories Limited. Rolling mill. 3,429,166, 2-25-69, Cl. 72-242.
Baker, William C.; Benson, James M.; and Hawk, Charles E., to Teledyne, Inc., mesne. Fluid flow measuring apparatus. 3,443,434, 5-13-69, Cl. 73-202.
Baker, William E.; and Foltz, Daniel M., to Bell Telephone Laboratories, Incorporated. Self-contained test probe with indicator lamp responsive to continuous or pulsed voltages. 3,437,928, 4-8-69, Cl. 324-133.
Baker, William F., to Instruments Displays, Inc. Instrument display case. 3,434,624, 3-25-69, Cl. 220-59.
Baker, William G.; Bose, Carl L.; and Gagon, Roland E., to Northrop Corporation. Floated inertial platform. 3,439,546, 4-22-69, Cl. 74-5.6
Baker, William J., to Willis Oil Tool Co. Multiple orifice valve. 3,426,797, 2-11-69, Cl. 137-625.31
Baker, William J., to Gardner-Denver Company. Clutch and indexing mechanism for tool spindle. 3,464,527, 9-2-69, Cl. 192-0.072
Baker, William J.; and Carter, Joseph F., to Gardner-Denver Company. Housing for tool mechanism. 3,443,647, 5-13-69, Cl. 173-169.
Baker, William J.; and Hurst, Richard J., to Gardner-Denver Company. Wire-wrapping tool with predetermined position stop. 3,480,119, 11-25-69, Cl. 192-3.
Baker, William O., to Swimquip, Inc. Hydrotherapy fitting. 3,471,091, 10-7-69, Cl. 239-416.
Baker-Lewis Music Enterprises, Inc.: *See*—
Baker, Joseph L., 3,440,919.
Baker-Roos, Inc.: *See*—
Herrell, Robert C., 3,452,647.
Bakhuizen, Arie Johannes Cornelis, to North American Philips Company, Inc. Synchronous step motor including means for producing asynchronous operation. 3,426,225, 2-4-69, Cl. 310-49.
Bakka, Raymond: *See*—
Regnier, Albert; Kevorkian, Kevork; and Bakka, Raymond,3,482,226.
Bakke, Bjorn, to Knag, A., A/S. Sealing means and window constructions incorporating such sealing means. 3,438,166, 4-15-69, Cl. 52-400.
Bakker, Eelke Folkert, to N.V. Hollandse Signaalapparaten. Write and read circuit arrangement for a magnetic storage with magnetizable cores. 3,436,750, 4-1-69, Cl. 340-174.
Bakker, Joannes Hendrikus: *See*—
Bakker, Johannes; and Bakker, Joannes Hendrikus,3,483,412.
Bakker, Johannes; and Bakker, Joannes Hendrikus. Mechanical vibrating system. 3,483,412, 12-9-69, Cl. 310-103.
Bakker, Lubertus: *See*—
Hazel, Beverly S.; and Bakker, Lubertus,3,468,421.
Bakker, Lubertus; Conde, James C.; and Krumm, Eugene D., to Air Preheater Company, Inc., The. Loader for an incinerator. 3,486,644, 12-30-69, Cl. 214-23.
Bakker, Martinus Antonius Maria; Collaris, Maria Antonius Alphonsus Andreas; and Duran, Johannes Christiaan, to U.S. Philips Corporation, mesne. Mercury dispensing device for an electric discharge tube. 3,478,243, 11-11-69, Cl. 313-174.
Bakker, Pieter M.: *See*—
Borstlap, Cornelis; and Bakker, Pieter M.,3,449,432.
Bakker, Willem F.: *See*—
Johnson, Arthur J.; and Bakker, Willem F.,3,487,186.
Baklien, Asbjorn; Gregory, Jocelyn M.; and Kling, Klaus, to Imperial Chemical Industries of Australia and New Zealand Limited. Thiophene-sulphonyl-phosphorothioates. 3,478,057, 11-11-69, Cl. 260-329.
Baklien, Asbjorn: *See*—
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan,3,476,546.
Baklor, Sanford M., to Maryland Cup Corporation. Method for forming slender article jacket. 3,482,012, 12-2-69, Cl. 264-296.
Bakonyi, Coloman: *See*—
Nadasan, Stefan; Sulea, Paul; Popescu, Dumitru; Schaumburger, Carol; and Bakonyi, Coloman,3,450,236.
Bakula, Walter M. Combination metal punch and shear. 3,468,206, 9-23-69, Cl. 83-599.
Balaban, Ostap: *See*—
Woodruff, George M.; Morrison, Fred T.; and Balaban, Ostap,3,438,310.
Balaguer Golobart, Ramon. Cutting device for looms. 3,451,440, 6-24-69, Cl. 139-303.
Balaguer, Rodolfo Rodriguez, to Patent Holding Corporation, mesne. Warming device. 3,432,364, 3-11-69, Cl. 136-181.
Balaguer, Rodolfo Rodriguez, to Patent Holding Corporation. Dry cell battery. 3,485,677, 12-23-69, Cl. 136-100.
Balain, Kanwal Singh; and Singh, Inderjeet, to Council of Scientific and Industrial Research. Vacuum whirler for applying thin and uniform coating of an emulsion on a wafer. 3,426,727, 2-11-69, Cl. 118-52.
Balakhontsev, Gennady Alexeevich: *See*—
Getselev, Zinovy Naumovich; Balakhontsev, Gennady Alexeevich; Cherepok, Gennady Vasilievich; Zinoviev, Vladimir Konstantinovich; Ershova, Antonida Alexeevna,; and Nonin, Mikhail Moiseevich,3,467,166.
Balamuth, Lewis, to Cavitron Corporation. Method and apparatus for joining a closure to a container by high frequency radial vibrations. 3,438,824, 4-15-69, Cl. 156-69.
Balamuth, Lewis. Method and apparatus for generating electric currents of small magnitude. 3,457,463, 7-22-69, Cl. 317-123.
Balamuth, Lewis, to Cavitron Corporation. Magnetostrictive vibrator for high frequency machining of hard materials. 3,471,724, 10-7-69, Cl. 310-26.
Balamuth, Lewis; and Parisi, Tulio, to Cavitron Corporation. Methods and apparatus for assembling parts together by ultrasonic energy. 3,483,611, 12-16-69, Cl. 29-509.
Balamuth, Lewis; and Robertson, Clifford A., to Cavitron Corporation. Method for maintaining a vibratory tool at a controlled temperature. 3,438,428, 4-15-69, Cl. 165-1.
Balamuth, Lewis; and Robertson, Clifford A., to Cavitron Corporation. Method and apparatus employing vibratory energy for joining materials. 3,445,307, 5-20-69, Cl. 156-73.
Balan, Isadore; and Scott, Ian J. C., to Chrysler Corporation. Vehicle speed regulating arrangement. 3,447,624, 6-3-69, Cl. 180-105.
Balas, Jaroslav G., to Shell Oil Company. Stilbene-conjugated diene block copolymers. 3,448,176, 6-3-69, Cl. 260-880.
Balasch, Peter; and Millen, John P. Skinning machine. 3,483,590, 12-16-69, Cl. 17-21.
Balash, Lawrence J., to Ethyl Corporation. Gasoline anti-icing. 3,485,603, 12-23-69, Cl. 44-63.
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich. Device for seismic prospecting. 3,447,625, 6-3-69, Cl. 181-0.5
Balassa, Leslie L. Processing of viscous oil emulsions. 3,468,789, 9-23-69, Cl. 208-188.
Balassa, Leslie L. Sterilizing and enhancing activity of a finely divided cartilage powder. 3,476,855, 11-4-69, Cl. 424-95.
Balassa, Leslie L. Wound-healing cartilage powder extracting process. 3,478,146, 11-11-69, Cl. 424-95.
Balaz, Charles S.: *See*—
Anderson, Maynard E.; Balaz, Charles S.; Reus, John F.; and Thorson, Sheldon E.,3,469,777.
Balazer, Richard J.: *See*—
Loomans, Bernard A.; Ross, Thomas I.; Balazer, Richard J.; and Scherping, Clarence K.,3,463,459.
Balbi, Valentino L. Refuse disposal system and apparatus. 3,426,715, 2-11-69, Cl. 114-27.
Balbi, Valentino L. Paper scrap pickup and baling machine. 3,467,001, 9-16-69, Cl. 100-74.
Balbierer, Hans H., to Xerox Corporation. Filter apparatus. 3,483,679, 12-16-69, Cl. 55-367.
Balcar, Oldrich; and Vavrina, Karel, to Ceskoslovenska akademie ved. Method and arrangement for shaping objects from ceramic raw-material. 3,456,291, 7-22-69, Cl. 18-5.
Balch, James L., to Mayer, Oscar, & Co., Inc. Article display rack. 3,486,632, 12-30-69, Cl. 211-57.
Balch, Joseph C., to Thermo-Dynamics, Inc. Temperature control tube. 3,472,314, 10-14-69, Cl. 165-106.
Balchunas, Charles A., to General Electric Company. Interval timer. 3,448,227, 6-3-69, Cl. 200-39.
Balde, Daniel: *See*—
Nagy, Georges; and Balde, Daniel,3,472,919.
Balde, John W., to Western Electric Company, Incorporated. Metal-insulation-metal storage unit and method of using. 3,470,541, 9-30-69, Cl. 340-173.
Balderston, Harvey L., to Boeing Company, The. Integrated circuits having integrated test trans- formation networks incorporated therewith on common substrate chips. 3,466,544, 9-9-69, Cl. 324-158.
Baldeschwieler, John D.: *See*—
Jeter, Thomas R.; and Baldeschwieler, John D.,3,465,148.
Baldi, Alfonso L., Jr.: *See*—
Schuster, Ludwig K.; and Baldi, Alfonso L., Jr.,3,472,681.

Baldi, Alfonso L., to Alloy Surfaces Company, Inc. Process of removing coatings from nickel and cobalt base refractory alloys. 3,458,353, 7-29-69, Cl. 134-3.

Baldi, Aluonso L., to Alloy Surfaces Company, Inc. Process for forming metal coatings. 3,449,159, 6-10-69, Cl. 117-107.2

Baldi, Otello, to Erich Herion Sen. Electromagnetic valve with axial play between the stem and permanent magnet holding means. 3,481,578, 12-2-69, Cl. 251-65.

Baldi, Salvator. Coupling for shafts and the like. 3,452,557, 7-1-69, Cl. 64-10.

Balding, Victor H. Turrethead milling and like metal working machine. 3,452,642, 7-1-69, Cl. 90-17.

Balding, Victor Horace. Machine tools. 3,431,634, 3-11-69, Cl. 29-568.

Balding, Victor Horace. Tool engaging device. 3,431,635, 3-11-69, Cl. 29-568.

Balding, Victor Horace. Machine tools. 3,445,923, 5-27-69, Cl. 29-568.

Baldrich, Christoph, to Hell, Rudolf, Dr.-Ing Kommanditgesellschaft. Apparatus for phase correction of page printers for facsimile receivers. 3,441,672, 4-29-69, Cl. 178-69.5

Balducci, Walter O.; and Welch, Nicholas A., to Emhart Corporation. Emergency exit lock. 3,477,260, 11-11-69, Cl. 70-92.

Baldus, Wolfgang: *See*—
Schramm, Walter; and Baldus, Wolfgang,3,469,410.

Baldwin, Alan W.: *See*—
Birmingham, Henry P.; Perry, Barbour Lee; and Baldwin, Alan W.,3,447,129.
Birmingham, Henry Patrick; Perry, Barbour L.; and Baldwin, Alan W.,3,447,128.

Baldwin, Beecher B., to Universal Filtration Inc. Grid structure for filters. 3,477,582, 11-11-69, Cl. 210-232.

Baldwin, Bradford J.; Cornell, William D.; Hoffman, Paul R.; and Russell, Jack A., to Brunswick Corporation. Spot projecting device. 3,469,905, 9-30-69, Cl. 352-39.

Baldwin, D. H., Company: *See*—
Bereskin, Alexander B., 3,476,865.
Bunger, David A., 3,437,850.
Conklin, Harold A., Jr., 3,477,331.
Conklin, Harold A., Jr., 3,478,635.
Cunningham, Thomas W., 3,445,578.
Cunningham, Thomas W., 3,450,825.
Cunningham, Thomas W., 3,476,866.
Elbrecht, Donald W.; and Scherer, Robert C., 3,454,702.
Ferris, Robert L., 3,472,113.
Goodlander, Samuel W., 3,437,000.
Hadden, George H., 3,470,306.
Jones, Edward M., 3,425,052.
Jones, Edward M., 3,443,017.
Martin, Daniel W., 3,467,758.
Martin, Daniel W.; and Ziegler, James F., 3,470,305.
Martin, Daniel W.; and Bereskin, Alexander B., 3,479,440.
Munch, Walter, Jr.; and Uetrecht, Dale M., 3,476,864.
Scherer, Robert C., 3,453,920.

Baldwin, Daniel L. Faucet valve with co-axial stem separate correlated actuators. 3,443,595, 5-13-69, Cl. 137-637.3

Baldwin, Edward B., Jr.: *See*—
Tanner, Richard C.; and Baldwin, Edward B., Jr.,3,425,891.

Baldwin, Eugene R. Aerosol spray head actuator. 3,429,484, 2-25-69, Cl. 222-402.13

Baldwin, George C., to General Electric Company. Apparatus for measuring velocity of low energy electrons. 3,435,207, 3-25-69, Cl. 250-41.9

Baldwin, George C., to General Electric Company. Electron transparent shield for separating regions of different field intensities. 3,482,091, 12-2-69, Cl. 250-49.5

Baldwin, George D., to Truck-Lite Co., Inc. Rail mounting bracket for vehicle lamps. 3,451,035, 6-17-69, Cl. 339-21.

Baldwin, George D., to Truck-Lite Co., Inc. Lamp connection and mounting devices. 3,474,381, 10-21-69, Cl. 339-21.

Baldwin, John A., Jr.; and Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Magnetic information storage circuits. 3,434,125, 3-18-69, Cl. 340-174.

Baldwin, John Granville; and Holt, William David, to Lucas, Joseph, (Industries) Limited. Electrical switches. 3,476,902, 11-4-69, Cl. 200-168.

Baldwin, John J.: *See*—
Bolhofer, William A.; and Baldwin, John J.,3,465,001.
Bolhofer, William A.; and Baldwin, John J.,3,465,002.
Cragoe, Edward J., Jr.; and Baldwin, John J.,3,483,227.

Baldwin, Philip F., to Steel Company of Canada Limited, The. Printer for tinning lines. 3,481,816, 12-2-69, Cl. 156-345.

Baldwin, Philip Sidney, 1/2 to Fiat Societa per Azioni. Pressure reducer device for hydraulic brakes. 3,443,382, 5-13-69, Cl. 60-54.5

Baldwin, Richard H.; and Fragen, Nathan, to Standard Oil Company (Indiana). Combination of apparatus elements for production and recovery of distillable aromatic acid. 3,472,630, 10-14-69, Cl. 23-285.

Baldwin, Richard H.: *See*—
Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H.,3,452,088.

Baldwin, Richard R., to United States of America, Atomic Energy Commission. Object measuring by interferometry. 3,436,153, 4-1-69, Cl. 356-106.

Baldwin, Robert S., to Commercial Solvents Corporation. Bacteria inhibiting composition containing polymix B and O-carbamyl- D-serine. 3,431,341, 3-4-69, Cl. 424-177.

Baldwin, Robert S., to Commercial Solvents Corporation. Bacitracin metal methane sulfinate and process for producing. 3,441,646, 4-29-69, Cl. 424-177.

Baldwin, Roger A.: *See*—
Washburn, Robert M.; and Baldwin, Roger A.,3,445,492.

Baldwin, Rolland G.; and Petersen, Darrell M., to Honeywell Inc. Dental handpiece. 3,465,442, 9-9-69, Cl. 32-27.

Baldwin, William E., to General Electric Company. Electrical pulsing circuit with automatic switching means. 3,433,970, 3-18-69, Cl. 307-11.

Baldwin, William W.; McCoy, C. Dana; Bodin, Milton; and Zinn, Leon. Motor speed control system. 3,436,634, 4-1-69, Cl. 318-318.

Baldwin-Gegenheimer Corporation: *See*—
Gegenheimer, Harold W.; and Stad, Andrew N., 3,452,673.
Gegenheimer, Harold W.; and Wyatt, James B., 3,485,257.

Baldwin-Lima-Hamilton Corporation: *See*—
Boshold, Raymond F., 3,466,915.
Brownell, Roy D.; and Woolman, Granville, 3,463,335.
Hoffmann, Leo; and Klaverkamp, Bernard, 3,440,856.
Lathers, William C., 3,446,123.
Levite, Gideon, 3,442,765.
Otten, Philip Seiter, 3,422,884.
Tidball, Robert A., 3,465,727.
Willi, Richard B., 3,452,962.

Baldyga, Joseph W., to Diamond Die & Mold Co. Method and apparatus for crimping electrical connectors. 3,456,480, 7-22-69, Cl. 72-362.

Bale, Alton G., Jr., to Wisconsin Electrical Mfg., Co., Inc. Batching control system. 3,434,556, 3-25-69, Cl. 177-70.

Balej, Jan; Paseka, Ivo; Vondrak, Jiri; and Regner, Albert, to Ceskoslovenska akademie ved. Electrolyzer for a simultaneous production of chlorine and alkaline carbonates. 3,431,193, 3-4-69, Cl. 204-266.

Balency-Bearn, Andre. Constructional building panel. 3,462,898, 8-26-69, Cl. 52-208.

Balent, Ralph; Wetch, Joseph R.; and Cohen, Emanuel Richard, to North American Rockwell Corporation. Small nuclear reactor heat source. 3,449,208, 6-10-69, Cl. 176-50.

Balentine, John Wesly; Iannicelli, Joseph; and Whitley, James B., to Huber, J. M., Corporation. Chemically treated clays. 3,442,677, 5-6-69, Cl. 106-288.

Bales, John W., Jr.; and Giunta, Joseph S., to United States Steel Corporation. Drain valve for tank bottom. 3,448,771, 6-10-69, Cl. 137-614.

Bales, Robert C., to Warner Electric Brake & Clutch Company. System for rapid and precise positioning. 3,420,347, 1-7-69, Cl. 192-142.

Bales, Robert J.: *See*—
Gleichert, Arthur A., 3,486,172.

Baley, Frank C. Jr.; and Baley, Raymond J. Spring-powered cue. 3,447,805, 6-3-69, Cl. 273-69.

Baley, Raymond J.: *See*—
Baley, Frank C. Jr.; and Baley, Raymond J.,3,447,805.

Balfanz, Glenn F., Jr. Tube forming mill. 3,456,472, 7-22-69, Cl. 72-181.

Balfour & Darwins Limited: *See*—
Varah, Frank Alwyn, 3,485,927.

Balfour, Henry, and Company Limited: *See*—
Johnston, James S., 3,428,106.

Balhorn, Robert J.; and Herrera, Mario I., to Medical Devices Corporation. Electrocardiograph vector plotter. 3,483,621, 12-16-69, Cl. 33-1.

Balhouse, Harold J., to Grinnell Corporation. Apparatus for molding liners in hollow metal bodies. 3,479,696, 11-25-69, Cl. 18-30.

Balinkin, Isay. Color demonstration device. 3,425,138, 2-4-69, Cl. 35-28.3

Balinski, Henry A., to United States Gypsum Company. Structural member. 3,461,638, 8-19-69, Cl. 52-732.

Balint, Andrew; Bixby, William E.; and Tyler, Len A., to Bell & Howell Company. Method and apparatus for eliminating tears and streaks in electrostatography. 3,424,579, 1-28-69, Cl. 96-1.

Balint, Andrew; and Wohlrab, Hans Christoph, to Bell & Howell Company. Program tape discriminator. 3,476,477, 11-4-69, Cl. 355-35.

Balint, Joseph A.: *See*—
Zaffrann, Albert A.; Balint, Joseph A.; and Weidmann, Siegfried,3,423,719.

Balitsky, Andrei Vasilievich; Penkin, Nikolai Ilich; Filatovsky, Lev Alexeevich; Gavrilov, Nikolai Ivanovich; and Rybchinsky,

Rostislav Evgenievich. Flanged joint for high-vacuum systems, particularly large systems. 3,468,561, 9-23-69, Cl. 285-23.
Balk, Albert C. Method of making laminated glass products. 3,449,184, 6-10-69, Cl. 156-105.
Balke & Co.: *See*—
Balke, Martin, 3,482,502.
Balke, Martin, to Balke & Co. Developer for automatically operated photographic device. 3,482,502, 12-9-69, Cl. 95-94.
Balkin, Jack. Fountain. 3,455,509, 7-15-69, Cl. 239-18.
Balkus, Carl E. Brake holding device. 3,468,586, 9-23-69, Cl. 303-89.
Balkwill, John T.: *See*—
Sowers, Hal L.; Ruggieri, Dominic J.; and Balkwill, John T.,3,458,744.
Ball Brothers Company, Incorporated: *See*—
Eissler, Robert L., 3,481,738.
Fogelberg, Clement V.; and Hough, William D., 3,465,073.
Fogelberg, Clement V.; and Erickson, Lowell H., 3,466,704.
Giessler, Donald A.; and Ratliff, Floyd A., 3,421,648.
Giessler, Donald A.; and Lafferty, Laurence E., Jr., 3,445,023.
Hough, William D., 3,449,480.
Kronbetter, Clarence Walter, 3,462,903.
Pickard, John E., 3,467,537.
Quinn, Richard M.; and Candioto, Donny W., 3,428,819.
Scholes, Addison B.; and Pickard, John E., 3,420,693.
Zimmerman, Edward C., 3,473,654.
Ball Brothers Research Corporation: *See*—
Fogelberg, Clement V., 3,431,599.
Nestlerode, William A., Sr., 3,434,682.
O'Shea, Christopher J.; Quinn, Richard; and Johnson, Donald S., Jr., 3,426,196.
Pamlenyi, George L., 3,435,362.
Ball, David Alan: *See*—
Burnett, Thomas Brian; and Ball, David Alan,3,456,129.
Ball, Eldon W., to Baltimore Brushes. Paint roller spindle. 3,425,086, 2-4-69, Cl. 15-230.11
Ball, Eric, to Angus, George, & Company Limited. Method of making a hose pipe of helically wound Strips of thermoplastic materials. 3,428,507, 2-18-69, Cl. 156-188.
Ball, Gerald V., to Mipro Metal Products Company. Separate ballast base for waste receptacles such as garbage cans. 3,471,114, 10-7-69, Cl. 248-346.
Ball, Glenn A.; Lichtenstein, Le Roy; and Webber, Philip S., to Caterpillar Tractor Company. Self-synchronizing gear coupler. 3,480,122, 11-25-69, Cl. 192-53.
Ball, Gordon H., Inc.: *See*—
Toles, Frank R., 3,454,121.
Toles, Frank R., 3,466,990.
Ball, Henry; and McLaughlin, Donald N., to Radio Corporation of America. Frequency and phase error detection means for synchronization systems. 3,441,342, 4-29-69, Cl. 352-17.
Ball, Jack; and Wilkens, Gunter G., to Picker Corporation, mesne. Bi-plane X-ray image system. 3,440,422, 4-22-69, Cl. 250-93.
Ball, James V., to Mallory, P. R., & Co., Inc. Thermal responsive recharge protection device to provide two level charging. 3,465,230, 9-2-69, Cl. 320-17.
Ball, Kenneth; and Osborne, Geoffrey Vaughan, to National Research Development Corporation. Osteotomy plate. 3,486,500, 12-30-69, Cl. 128-92.
Ball, Lawrence E.: *See*—
Isley, Ralph E.; Adams, Richard C.; and Ball, Lawrence E.,3,437,717.
Ball, Lawrence J., to Phillips Petroleum Company. Puller. 3,468,409, 9-23-69, Cl. 198-165.
Ball, Murray E.: *See*—
McKown, William L.; Ball, Murray E.; Moen, Rolf; and Weiss, Verne E.,3,450,538.
McKown, William L.; Zietlow, Philip K.; and Ball, Murray E.,3,464,826.
Ball, Newton E.; and Gillette, Garry Carter, to Neff Instrument Corporation. Differential direct-coupled amplifier arrangements. 3,448,398, 6-3-69, Cl. 330-69.
Ball, Ralph K.: *See*—
Litt, Peter S., 3,445,000.
Ball, Richard H.: *See*—
Chesnut, Merrill G.; and Ball, Richard H.,3,421,497.
Ball, Richard H., to United Aircraft Corporation, mesne. Heart pump cannula. 3,426,744, 2-11-69, Cl. 128-1.
Ball, Richard H. Fast response apparatus for measuring rate of change of pressure. 3,451,265, 6-24-69, Cl. 73-179.
Ball, Robert George; Perry, Gerald Horace; and Wood, John. Digital storage devices using field-effect transistor bitable circuits. 3,431,433, 3-4-69, Cl. 307-221.
Ball, Roger: *See*—
Thompson, Roger Ross; and Ball, Roger,3,452,246.
Ball, Rowland E., to Borg-Warner Corporation. Mechanical seal assembly. 3,459,430, 8-5-69, Cl. 277-3.
Ball, Rowland E., to Borg-Warner Corporation. Circulating pump. 3,478,689, 11-18-69, Cl. 103-87.
Balla, Andre: *See*—
Loeb, Sidney; Wasilewski, Stanley; Selover, Edward; and Balla, Andre,3,446,359.
Ballantine, James S. Tracker bar and music sheet roll. 3,440,916, 4-29-69, Cl. 84-146.
Ballantine, James S. Differential pressure pneumatic device. 3,482,605, 12-9-69, Cl. 137-625.66
Ballantine, James S.; and Mastronardi, Patrick. Programmed control device including spool box and related mechanism. 3,473,436, 10-21-69, Cl. 91-36.
Ballantine, John M.: *See*—
Davy, John R.; Ballantine, John M.; and Allan, William B.,3,432,668.
Ballantyne, David B.; and Goring, Maurice T., to General Motors Corporation. Fastener. 3,433,119, 3-18-69, Cl. 85-32.
Ballantyne Instruments and Electronics, Inc.: *See*—
Nelson, Edward J., 3,483,982.
Ballard & Associates, Inc.: *See*—
Ballard, Louis M., 3,420,230.
McInnis, Andrew M., 3,428,559.
Ballard, Carlos E.: *See*—
Walker, Garland H.; and Ballard, Carlos E.,3,475,236.
Ballard, Charles M. Hinged roof structure. 3,485,346, 12-23-69, Cl. 206-46.
Ballard, Charles U. Cam actuated clutch. 3,450,433, 6-17-69, Cl. 297-355.
Ballard, Charles U. Hydraulic lock for adjustable seats. 3,471,140, 10-7-69, Cl. 267-1.
Ballard, Cyril G., to Stibbe, G., & Company Limited. Multi-feed circular knitting machines. 3,461,691, 8-19-69, Cl. 66-125.
Ballard, Donald S.; Wilson, Charles R.; and Burns, Harlan G., to Armco Steel Corporation. Terminal fitting for wire ropes. 3,468,569, 9-23-69, Cl. 287-82.
Ballard, Doyle R.; and Coe, Guy R., Jr., to Hydranamic Systems Corporation. Hydraulic load compensating directional control valve. 3,467,126, 9-16-69, Cl. 137-115.
Ballard, Henry D., Jr.; Mooi, John; and Rogers, Edward S., to Sinclair Research, Inc. Method of crystallizing aluminosilicates. 3,422,033, 1-14-69, Cl. 252-455.
Ballard, Homer Lee, to Burlington Industries, Inc. Webbings for safety restraint systems. 3,464,459, 9-2-69, Cl. 139-383.
Ballard, James: *See*—
Hannifan, Martin K.; and Ballard, James,3,441,316.
Ballard, John S.: *See*—
Hague, Robert Z.; Ballard, John S.; Lewlew, John J.; and Miller, Franklin G.,3,420,141.
Ballard, Kermit H.; and Hoffman, Lewis C., to Du Pont de Nemours, E. I., and Company. Noble metal metalizing compositions. 3,450,545, 6-17-69, Cl. 106-1.
Ballard, Louis H.; and Satterley, Buddy L., to Monsanto Company. Gauze catalyst support. 3,423,185, 1-21-69, Cl. 23-288.
Ballard, Louis M., to Ballard & Associates, Inc. Back brace. 3,420,230, 1-7-69, Cl. 128-75.
Ballard, Robert L., to Porter, H. K., Company, Inc. Adjustable compound shears. 3,422,532, 1-21-69, Cl. 30-252.
Ballard, Robert L., to Hurst-Campbell, Inc. Anti-skid system. 3,450,444, 6-17-69, Cl. 303-21.
Ballard, Robert L.; and Edgell, James E., to Porter, H. K., Company, Inc. Direct reading tape rule. 3,426,435, 2-11-69, Cl. 33-138.
Ballard, Robert L.; Edgell, James E.; Handke, Patrick M.; and Loechner, John T., to Porter, H. K., Company, Inc. Vertical grip grass shears. 3,438,130, 4-15-69, Cl. 30-235.
Ballard, Thomas B. Cleaning machine. 3,422,826, 1-21-69, Cl. 134-107.
Ballard, Thomas B. Cleaning machine with tumbling means. 3,452,763, 7-1-69, Cl. 134-96.
Ballard, Wade E., to Slick Corporation. Baghouse apparatus. 3,451,197, 6-24-69, Cl. 55-341.
Balleis, Peter. Toy spinning top. 3,449,858, 6-17-69, Cl. 46-65.
Ballentine, Earle W.: *See*—
Doyle, James H., 3,449,768.
Ballentine, James B.; and Crovatt, Lawrence W., Jr., to Monsanto Company. Modified polycarbonamides. 3,448,087, 6-3-69, Cl. 260-78.
Ballentine, John D., to PPG Industries, Inc. Electrically heated window panel with thermally controlled lead-in wires. 3,467,818, 9-16-69, Cl. 219-522.
Baller, Albert H. Dispenser having an ejector for dispensing articles one by one. 3,472,421, 10-14-69, Cl. 221-196.
Baller, Albert H.; and Willette, Lawrence A. Dispenser with supply hold-back means. 3,430,810, 3-4-69, Cl. 221-205.
Baller, Maurice H.: *See*—
Hersh, Sidney; and Baller, Maurice H.,3,468,213.
Balley Tow-Rite, Inc.: *See*—
Garner, Stanley R., 3,446,519.
Balligand, Emile, to Societe anonyme Societer. Lifter for beet and other root plants. 3,468,378, 9-23-69, Cl. 171-58.
Ballin, Gene. Dispensing apparatus having a movable platform. 3,446,395, 5-27-69, Cl. 221-52.

Ballin, Gene. Infant-feeding container and cap assembly. 3,468,445, 9-23e69, Cl. 215-11.
Ballin, Gene. Tube winding device. 3,473,698, 10-21-69, Cl. 222-100.
Ballinger, Edwin R.: *See—*
Anderson, Donald R.; and Ballinger, Edwin R.,3,434,467.
Ballinger, Peter R.: *See—*
Kautsky, George J.; and Ballinger, Peter R.,3,443,918.
Ballini, Giuliano: *See—*
Bucci, Giovanni; Simonazzi, Tonino; Ballini, Giuliano; and Portolani, Augusto,3,477,985.
Ballini, Giuliano; and Bujtar, Carlo, to Montecatini Edison S.p.A. Process for preparing peroxyacetals and peroxyketals. 3,468,962, 9-23-69, Cl. 260-610.
Ballintine, Oscar P., Jr., to Bliss, E. W., Company. Apparatus for inserting and removing working roll sets from a 4-high mill. 3,446,051, 5-27-69, Cl. 72-239.
Ballman, Albert A., to Bell Telephone Laboratories, Incorporated. Growth of piezoelectric gamma bismuth oxide. 3,470,100, 9-30-69, Cl. 252-62.9
Ballman, Albert A.; and Van Uitert, Le Grand G., to Bell Telephone Laboratories Incorporated. Optical devices utilizing substantially tetragonal ferroelectric tungsten-bronzes. 3,423,686, 1-21-69, Cl. 330-4.5
Ballmann, Richard B.: *See—*
Thiem, Darold W.; Kramlich, C Wesley; and Ballmann, Richard B.,3,437,308.
Ballmann, Vincent H. Ground soil coring implement. 3,444,938, 5-20-69, Cl. 175-173.
Ballou, B. A., & Co., Incorporated: *See—*
Sauer, Alfred Eugene, 3,484,909.
Ballou, Jack W.; and Levy, Martin R., to Du Pont de Nemours, E. I., and Company. Patterned nonwoven fabric of multifilament yarns and jet stream process for its production. 3,485,708, 12-23-69, Cl. 161-72.
Ballou, Richard P., to General Motors Corporation. Electric fuel pump controls. 3,476,949, 11-4-69, Cl. 290-36.
Ballreich, Kurt; Bendler, Hellmut; and Gawlick, Heinz, to Dynamit Nobel Aktiengesellschaft. Shockproof primer cover. 3,455,244, 7-15-69, Cl. 102-86.5
Ballu, Louis Henri Denis Marie. Amphibious vehicles. 3,446,174, 5-27-69, Cl. 115-1.
Ballu, Vincent P. M., to TECNOMA. Manually-controlled spraying apparatus to be carried on the back. 3,428,255, 2-18-69, Cl. 239-154.
Ballu, Vincent P. M., to TECNOMA. Atomizing or spraying apparatus. 3,433,393, 3-18-69, Cl. 222-402.
Balluff, Robert N., to Walker Manufacturing Company. Exhaust gas converter or muffler tube with staggered louvers. 3,485,319, 12-23-69, Cl. 181-35.
Ballweber, Edward G.: *See—*
Thompson, William H.; and Ballweber, Edward G.,3,468,816.
Bally, Alexander O., to Corning Glass Works. Filter and method and apparatus for its production. 3,419,937, 1-7-69, Cl. 18-10.
Bally Manufacturing Corporation: *See—*
Lally, Joseph E.; Heppner, Earl F.; and Berninger, Harold O., 3,441,279.
Zale, Thad F., 3,452,988.
Balm Paints Limited: *See—*
Hopwood, John Joseph; and Wluka, David Jankiel, 3,463,764.
Balma, Peter: *See—*
Cleveland, Floyd M.; and Balma, Peter,3,439,898.
Balnis, Joseph J.: *See—*
Loughran, Eugene F.; and Balnis, Joseph J.,3,426,608.
Balo, Harold A., to General Electric Company. Turbojet compressor stall warning indicator. 3,426,322, 2-4-69, Cl. 340-27.
Balocca, Alfred Edward, to American Can Company. Easy opening container. 3,441,167, 4-29-69, Cl. 220-53.
Balogh, Stephen; and Adams, Cecil L., to Parker-Hannifin Corporation. Receiver-dehydrator. 3,434,597, 3-25-69, Cl. 210-95.
Balon, Albert J. Valve and tube assembly. 3,460,804, 8-12-69, Cl. 251-340.
Balon Corporation: *See—*
Scaramucci, Domer, 3,428,292.
Scaramucci, Domer, 3,438,387.
Scaramucci, Domer, 3,446,475.
Scaramucci, Domer, 3,446,476.
Scaramucci, Domer, 3,455,534.
Scaramucci, Domer, 3,460,803.
Scaramucci, Domer, 3,462,118.
Scaramucci, Domer, 3,476,356.
Scaramucci, Domer, 3,486,736.
Balsay, Bela. Removal of odours from toilets and cleansing of same. 3,436,767, 4-8-69, Cl. 4-213.
Balsiger, Harold E., to Landis Tool Company, mesne. Duplex valve grinder. 3,481,085, 12-2-69, Cl. 51-105.
Balston , W. & R., Limited: *See—*
Knight, Colin Sutherland; Reimer, Alexander Claude; Weaver, Victor Charles; and Brook, Brian Neville, 3,446,794.
Baltazzi, Evan S., to Addressograph-Multigraph Corporation. Benzene diazonium salts useful in diazotype materials having ortho carboxamido substitution. 3,463,639, 8-26-69, Cl. 96-91.
Baltes, Bernard J., to Rexall Drug and Chemical Company. Method of treating mental depression. 3,487,153, 12-30-69, Cl. 424-244.
Baltes, Emil: *See—*
Treppachuh, Helmut; and Baltes, Emil,3,438,294.
Baltes, Josef; Weghorst, Friedrich; and Makus Zdzislaw, to Harburger Fettchemie Brinckman & Mergell, GmbH. Preparation of plastics from polyhydric araliphatic alcohols. 3,472,816, 10-14-69, Cl. 260-77.5
Baltes, Josef; Weghorst, Frierich; and Wechmann, Otto, to Harburger Fettchemie Brinckman & Mergell GmbH. Process for the co-oligomerization of conjugated unsaturated fatty acids or their esters with indene and/or coumarone. 3,441,577, 4-29-69, Cl. 260-407.
Balthis, Joseph H., Jr., to Du Pont de Nemours, E. I., and Company. Preparation of ferromagnetic chromium dioxide. 3,423,320, 1-21-69, Cl. 252-62.51
Balthis, Joseph H., Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing chromium dioxide and product thereof. 3,449,073, 6-10-69, Cl. 23-145.
Balthis, Joseph H., Jr., to Du Pont de Nemours, E. I., and Company. Preparation of MCr_3O_8, where M is an alkali metal, from CrO_3, Cr_2O_3 and $M_2Cr_2O_7$. 3,450,491, 6-17-69, Cl. 23-56.
Baltimore Aircoil Company, Inc.: *See—*
Engalitcheff, John, Jr.; Faciu, Thomas F.; and Bradley, Wilson E., Jr., 3,437,319.
Engalitcheff, John, Jr.; Facius, Thomas F.; Bradley, Wilson E., Jr.; and Anderson, Axel F. L., 3,442,494.
Baltimore Biological Laboratory: *See—*
Rohde, Paul A., 3,449,210.
Baltimore Box Company: *See—*
Stegner, Douglass M., 3,456,862.
Baltimore Brushes: *See—*
Ball, Eldon W., 3,425,086.
Baltimore Concrete Plank Corporation: *See—*
Hart, Wayne C., 3,437,316.
Baltzer, Donald H.: *See—*
Dreyer, John F.; and Baltzer, Donald H.,3,436,353.
Baltzer, Erich, to Hergeth K.G. Maschinenfabrik und Apparatebau. Apparatus for warping and sizing of short warp threads. 3,449,807, 6-17-69, Cl. 28-22.
Baltzer, Erich; Maydorn, Wolfgang; and Nachilla, Herbert, to Povel, Ludwig, & Co., K.G. Warp knitted fabric suitable for bandaging and the like. 3,448,595, 6-10-69, Cl. 66-193.
Baltzer, Walter. Device for spraying liquids by means of propellant. 3,421,698, 1-14-69, Cl. 239-304.
Balunas, Vincent J., Jr.; and Hitch, Thomas R., to Bliss, E. W., Company. High-speed multiple-action press. 3,433,048, 3-18-69, Cl. 72-417.
Balz, Gunther W., to Roto-Finish Company. A finishing process employing solid-gas pellets. 3,422,580, 1-21-69, Cl. 51-314.
Balz, Gunther W., to Roto-Finish Company. Finishing apparatus having a plurality of compartments. 3,423,884, 1-28-69, Cl. 51-163.
Balz, Gunther W., to Roto-Finish Company. Vibratory motor assembly for finishing machine or the like having adjustable eccentric weights. 3,435,564, 4-1-69, Cl. 51-163.
Balz, Gunther W., to Roto-Finish Company. Vibratory method of treating articles. 3,466,815, 9-16-69, Cl. 51-313.
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A., to Central Specialties Co. Roof expansion joint covers. 3,421,267, 1-14-69, Cl. 52-58.
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A., to Central Specialties Co. Stair nosing structure. 3,421,274, 1-14-69, Cl. 52-179.
Balzer, Norbert R., to Park-Ohio Industries, Inc. Inductor for heating a moving workpiece. 3,466,414, 9-9-69, Cl. 219-10.43
Balzers Patent- und Beteiligungs-Aktiegesellschaft: *See—*
Kohler, Marcel; and Frick, Adalbert, 3,474,634.
Balzers Patent- und Lizenz-Anstalt: *See—*
Kraus, Thaddaus; and Schertler, Roman, 3,423,513.
Rheinberger, Peter; and Kummerer, Fritz, 3,421,937.
Winkler, Otto; Reisinger, Helmut; and Ruhe, Jochen, 3,457,655.
Balzers Patent-und Lizenz-Anstalt: *See—*
Kohler, Marcel, 3,433,297.
Rheinberger, Peter, 3,485,997.
Bamberg, Konrad: *See—*
Porsche, Ferdinand Alexander; and Bamberg, Konrad,3,451,500.
Bambino Electronics Limited: *See—*
Douglas, Clifford G.; and Guttridge, George H. G., 3,468,143.
Bambury, Ronald Edward: *See—*
Wood, Irwin Boyden; Rohrbacher, George Henri, Jr.; and Bambury, Ronald Edward,3,444,299.
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M.,3,439,000.
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M.,3,442,913.

Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William, to Imperial Chemical Industries Limited. Polymerisation process. 3,433,774, 3-18-69, Cl. 260-80.
Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William, to Imperial Chemical Industries Limited. Polymerisation process. 3,466,182, 9-9-69, Cl. 117-12.
Bamford, William Randall; and Cuthill, James Caithness, to Imperial Chemical Industries Limited. Polysiloxane resinous compositions containing bis (silyl)aromatic or aromatic ether linkages. 3,464,937, 9-2-69, Cl. 260-18.
Bamforth, Alfred William, to Power-Gas Corporation, The. Production of crystals from solutions. 3,467,699, 9-16-69, Cl. 260-525.
Bammesberger, Karl: *See—*
Engelsmann, Dieter; Maas, Dieter; Bammesberger, Karl; and Hackenberg, Hubert,3,463,068.
Winkler, Alfred; Bammesberger, Karl; and Ernst, Heinz,3,463,071.
Bamoto, Takeshi: *See—*
Kudo, Shiro; Shimomura, Kunio; and Bamoto, Takeshi,3,474,137.
Ban, Tamas; Horvath, Lorand; Kaffka, Karoly; and Nadai, Bela, to Medicor Muvek. Particle counter with liquid responsive start and stop means. 3,453,438, 7-1-69, Cl. 250-218.
Ban, Thomas E., to McDowell-Wellman Engineering Company. Rotary abrading device. 3,431,684, 3-11-69, Cl. 51-164.
Ban, Thomas E., to McDowell-Wellman Engineering Company. Process for the preparation of hardened, dense heat transfer medium. 3,433,859, 3-18-69, Cl. 264-44.
Ban, Thomas E., to McDowell-Wellman Engineering Company. Method for progressive heating of solid particulate materials. 3,441,480, 4-29-69, Cl. 201-22.
Ban, Thomas E., to McDowell-Wellman Engineering Company. Process for making carbon agglomerates. 3,470,275, 9-30-69, Cl. 264-29.
Banas, Henry C., to McDonnell Douglas Corporation, mesne. Retaining latch. 3,435,492, 4-1-69, Cl. 24-230.
Banas, Henry C.; McReynolds, William W.; and Smith, David A., to McDonnell Douglas Corporation. Jetescape evacuation system. 3,465,991, 9-9-69, Cl. 244-137.
Banba, Hiroto: *See—*
Mima, Hiroyuki; Noda, Etsunosuke; and Banba, Hiroto,3,456,051.
Bancelin, Robert Victor. Impulsor with powder charge, particularly for percussion vibrations tests. 3,442,085, 5-6-69, Cl. 60-253.
Banci, Feriano; and Tubaro, Ezio, to Stabilimenti Chimico-Farmaceutici Dr. R. Ravasini & C. ia S.p.A. Aminomethyl pyrazolone derivatives of nicotianamide. 3,420,839, 1-7-69, Cl. 260-295.5
Bancroft, Joseph & Sons Co.: *See—*
Harris, Billy Steve, 3,430,311.
Kim, Charles W., 3,472,717.
Trifunovic, Alexander L.; Hodges, James R.; and Shick, Richard L., 3,452,409.
Bancroft, Joseph, and Sons Co.: *See—*
Hodges, James R., 3,460,214.
Band, John G. G., to Marine Acoustical Services, Inc. Apparatus for providing a diver with directional perception. 3,445,806, 5-20-69, Cl. 340-6.
Bandat, Kurt; and Rothauser, Ernst, to International Business Machines Corporation. Device modifying pitch frequency and/or articulation speed for natural speech. 3,450,838, 6-17-69, Cl. 179-1.
Bandoski, Stanley J., Jr.: *See—*
Flynn, Daniel M.; and Bandoski, Stanley J., Jr.,3,421,066.
Bandoski, Stanley, Jr.: *See—*
Flynn, Daniel M.; Bandoski, Stanley, Jr.; and Clow, William R.,3,473,041.
Bandy, Kenneth L.: *See—*
Klempay, Raymond T.; and Bandy, Kenneth L.,3,466,913.
Bandy, William J., Jr.: *See—*
Lill, Etchison, G.; and Bandy, William J., Jr.,3,422,531.
Bane, John M., Jr.: *See—*
Petzold, Max L.; Brooks, Thomas W.; and Bane, John M., Jr.,3,479,353.
Banes, Nathan M.; Feehan, John D.; and Stepura, Raymond M., to Sperry Rand Corporation. Dielectric supported positionable inductive tuner for resonators. 3,444,486, 5-13-69, Cl. 333-83.
Bang, Mogens W., to Stackpole Carbon Company. Linear motion potentiometer with protected slide. 3,431,529, 3-4-69, Cl. 338-183.
Bang, Mogens W., to Stackpole Carbon Company. Gear and rack potentiometer actuator. 3,431,530, 3-4-69, Cl. 338-183.
Bang, Mogens W., to Stackpole Carbon Company. Linear motion potentiometer actuator. 3,465,277, 9-2-69, Cl. 338-183.
Bang, Mogens W., to Stackpole Carbon Company. Potentiometer with frictional slide. 3,477,057, 11-4-69, Cl. 338-182.
Bang, Mogens W., to Stockpole Carbon Company. Rotary electric switch. 3,478,180, 11-11-69, Cl. 200-11.
Bang, Mogens W.; Hanson, Earl A.; and Eichmiller, Frederick E., deceased0 (by Eichmiller, Gloria; administratrix), to Stackpole Carbon Company. Variable resistor with rectangular resistance element. 3,448,428, 6-3-69, Cl. 338-162.
Bangert, Lothar: *See—*
Kurtz, Manfred; and Bangert, Lothar,3,432,126.
Bangerter, Kenneth R., to Ingersoll-Rand Company. Torque release and shut-off mechanism for pneumatic tools. 3,442,362, 5-6-69, Cl. 192-150.
Bangerter, Kenneth R.; and Bernhardt, Harold A., to Borg-Warner Corporation. Torque limiter. 3,457,733, 7-29-69, Cl. 64-30.
Bangerter, Kenneth R.; and De Witt, Harold F., to Ingersoll-Rand Company. Double acting sander head. 3,482,362, 12-9-69, Cl. 51-170.
Bangerter, Kenneth R.; and Gable, Duane S., to Ingersoll-Rand Company. Power operated drill having fluid supply means. 3,421,392, 1-14-69, Cl. 77-7.
Bangerter, Kenneth R.; Ulbing, Otmar M.; and Krouse, John P., to Ingersoll-Rand Company. Fluid-powered wrench with automatic shut-off. 3,450,214, 6-17-69, Cl. 173-12.
Bangor Punta Operations, Inc.: *See—*
Miller, Lester D., 3,479,057.
Serota, Rudolph M., 3,469,054.
Tinley, John William, 3,435,536.
Bangs, Walter J., to Tuthill Pump Company. Lobe gear pump. 3,478,693, 11-18-69, Cl. 103-126.
Banham, John Anthony, to Banham's Patent Locks Limited. Locks. 3,486,351, 12-30-69, Cl. 70-104.
Banham's Patent Locks Limited:*See—*
Banham, John Anthony, 3,486,351.
Banholzer, Rolf: *See—*
Zeile, Karl; Banholzer, Rolf; Walther, Gerhard; Schulz, Werner; and Wick, Helmut,3,472,861.
Baniel, Avraham; Blumberg, Ruth; and Alon, Alexander. Method of purifying phosphoric acid. 3,433,592, 3-18-69, Cl. 23-165.
Banister Corporation, The: *See—*
Haw, Sherwood G., 3,453,134.
Bank of California, National Association, The: *See—*
Machtig, Duane A., 3,429,640.
Machtig, Duane A., 3,452,663.
Bank, Shelton; Vogelfanger, Elliot; Naslund, Lars A.; and Yates, David J. C., to Esso Research and Engineering Company. Process for reducing metal compounds. 3,428,448, 2-18-69, Cl. 75-108.
Bank, William. Electric sign letter constructions. 3,431,666, 3-11-69, Cl. 40-135.
Bank, William. Trouser construction. 3,435,462, 4-1-69, Cl. 2-227.
Bank, William. Sign letter mounts. 3,477,159, 11-11-69, Cl. 40-140.
Bankauf, William F.; and Promin, Robert M., to Hewitt-Robins Incorporated. Mobile bridge conveyor steering system. 3,422,949, 1-21-69, Cl. 198-92.
Banke, Henry S., to Curtis, Helene, Industries, Inc. Method of assembling two-piece overcaps. 3,427,704, 2-18-69, Cl. 29-429.
Banker, John C.: *See—*
Foster, Robert Donnell; and Banker, John C.,3,484,576.
Banker, Oscar H., to Meyer Products, Inc. Gear pump with takeup for wear. 3,433,168, 3-18-69, Cl. 103-126.
Banko, Edward J., to Aero-Flow Dynamics, Inc. Damper means in air supply units or the like. 3,443,588, 5-13-69, Cl. 137-601.
Banks, Abraham: *See—*
Shanafelt, Leo A.; and Banks, Abraham,3,435,269.
Banks, Charles B., to Plastiglide Limited. Locator plate. 3,426,419, 2-11-69, Cl. 29-407.
Banks, Charles T., to Kimberly-Clark Corporation. Papermaking method and apparatus. 3,477,658, 11-11-69, Cl. 242-56.
Banks, David Dugmore: *See—*
Hindle, Thomas; and Banks, David Dugmore,3,452,908.
Banks, George N.: *See—*
Viens, George E.; Campbell, Robert A.; Banks, George N.; Sachdeva, Roshan L.; and Sirianni, Guy V.,3,441,651.
Banks, Hampden O.; and Sparks, Richard H., to TRW Inc. Active heat transfer device. 3,461,954, 8-19-69, Cl. 165-32.
Banks, James W. Method and apparatus for forming metal bellows expansion joints. 3,429,160, 2-25-69, Cl. 72-77.
Banks, Robert B.: *See—*
Strauss, Bruno; and Banks, Robert B.,3,454,869.
Banks, Robert L.: *See—*
Heckelsberg, Louis F.; and Banks, Robert L.,3,445,541.
Banks, Robert L., to Phillips Petroleum Company. Conversion of olefins. 3,431,316, 3-4-69, Cl. 260-683.
Banks, Robert L., to Phillips Petroleum Company. Olefin conversion over group V-B metal catalysts. 3,442,969, 5-6-69, Cl. 260-683.
Banks, Robert L., to Phillips Petroleum Company. Novel metal carbonyl catalysts and their use. 3,463,827, 8-26-69, Cl. 260-666.
Banks, Stephen A.: *See—*
Langtry, Manuel C.; and Banks, Stephen A.,3,438,001.
Banks, William B., to Automation Products, Inc. Apparatus for measuring physical properties of materials. 3,449,940, 6-17-69, Cl. 73-32.
Banks, William B., to Automation Products, Inc. Method of and apparatus for measuring changes in the mass of a fluid adapted to contact vibratory body. 3,449,941, 6-17-69, Cl. 73-32.

Banks, William L., Jr., to Testing Associates, Inc. Derrick for ships. 3,446,362, 527-69, Cl. 212-3.
Banks, William P.: *See—*
Every, Richard L.; and Banks, William P.,3,462,353.
Banks, William P., to Continental Oil Company. Method for identifying metals and alloys. 3,428,532, 2-18-69, Cl. 204-1.
Banks, William P.; and Sudbury, John D., to Continental Oil Company. Method and apparatus for preventing ion deposition on corrosion protection electrodes. 3,437,572, 4-8-69, Cl. 204-147.
Sharples, Allan; and Banks, William,3,439,074.
Banner, Joseph P. Weeding tool. 3,458,981, 8-5-69, Cl. 56-229.
Banner Metals, Inc.: *See—*
Wilson, James D., 3,428,204.
Wilson, James D., 3,486,633.
Banner Mining Company: *See—*
Brace, Eldred C., 3,464,904.
Banning, Joe Doyle. Live center apparatus. 3,448,644, 6-10-69, Cl. 82-33.
Banning, Thomas A., Jr. Television systems and operations. 3,435,130, 3-25-69, Cl. 178-5.2
Banning, Thomas A., Jr. Synchronizing and phasing broadband cross-scan tape recordings. 3,476,872, 11-4-69, Cl. 178-6.6
Banning, Thomas A., Jr. Dual quality subscription television system. 3,478,162, 11-11-69, Cl. 178-5.6
Banning, Thomas A., Jr.; and Ranseen, Emil L., deceased0 (by Ranseen, Agnes J.; executrix). Recording and playing back plural images of related sequences of objects by wide-band, cross- scan recording operations. 3,472,949, 10-14-69, Cl. 178-6.6
Bannister, Clyde E. Drilling system. 3,469,499, 9-30-69, Cl. 91-58.
Bannister, George I., to Lear Siegler, Inc., mesne. Rod end bearing member. 3,449,027, 6-10-69, Cl. 308-72.
Bannister, George Irving, to Lear Siegler, Inc., mesne. Apparatus for making a rod end bearing. 3,422,520, 1-21-69, Cl. 29-200.
Bannister, Loren W., to Monsanto Company. Lubricant compositions. 3,455,846, 7-15-69, Cl. 252-48.2
Banno, Hisao; Maeda, Shoji; Tsunooka, Tsutomu; and Sakai, Masao, to NGK Spark Plug Co., Ltd. Polarizable ferroelectric ceramic composition. 3,464,924, 9-2-69, Cl. 252-62.9
Banno, Hisao; and Tsunooka, Tsutomu, to NGK Spark Plug Co., Ltd. Polarizable ferroelectric ceramic compositions. 3,463,732, 8-26-69, Cl. 252-62.9
Bannon, Thomas W., Jr., to Ametek, Inc. Program control device. 3,420,970, 1-7-69, Cl. 200-38.
Bannon, Thomas W., Jr. Washer-extractor unitary frame structure with parallel plates. 3,459,461, 8-5-69, Cl. 312-214.
Banoczi, Joseph A. Bathtub stool with safety hand rail. 3,422,466, 1-21-69, Cl. 4-185.
Bansho, Kiyoshi, to Yazaki Corporation. Hands setting device in a watch mechanism. 3,446,008, 5-27-69, Cl. 58-85.5
Banta, Edward M., to Petro-Tex Chemical Corporation. Polybutene-1 bearing compositions and method. 3,433,742, 3-18-69, Cl. 252-12.
Bantle, Kurt: *See—*
Pfitzner, Ulrich; and Bantle, Kurt,3,473,568.
Bantox Safety Closures Limited: *See—*
Bugla, Gottfried, 3,432,065.
Banush, Russell S., to Allied Chemical Corporation. Acid-peroxide dissolution of metals in the presence of titanium. 3,483,050, 12-9-69, Cl. 156-18.
Banville, Bertrand J. R., to Atomic Energy of Canada Limited. Gas flow nuclear detector cell utilizing thin scintillation material in a spiral arrangement. 3,465,147, 9-2-69, Cl. 250-71.5
Banyacsky, Arthur J.: *See—*
O'Donnell, William R.; and Banyacsky, Arthur J.,3,460,719.
O'Donnell, William R.; and Banyacsky, Arthur J.,3,474,939.
Banziger, Walter: *See—*
Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo,3,483,523.
Baque, Pierre; and Darras, Raymond, to Commissariat a l'Energie Atomique. Zirconium alloy. 3,480,430, 11-25-69, Cl. 75-177.
Bar, Karl, to Schaum Chemie, Wilhelm Baner K.-G. Apparatus for continuously producing a plastic foam. 3,434,805, 3-25-69, Cl. 23-285.
Bar-Eli, Kedma: *See—*
Klein, Fritz S.; and Bar-Eli, Kedma,3,457,041.
Bara, Edward J.: *See—*
Shriver, Donald S.; and Bara, Edward J.,3,458,464.
Barabas, Eugene S.: *See—*
Fein, Marvin M.; and Barabas, Eugene S.,3,474,079.
Barabas, Eugene S.; and Fein, Marvin M., to GAF Corporation. Graft copolymers. 3,468,831, 9-23-69, Cl. 260-29.6
Barabas, Eugene S.; and Grosser, Frederick, to GAF Corporation. Stable aqueous emulsions. 3,462,385, 8-19-69, Cl. 260-29.6
Barabas, Eugene S.; and Grosser, Frederick, to GAF Corporation. Stable aqueous emulsions. 3,467,613, 9-16-69, Cl. 260-29.6
Barabas, Eugene S.; and Grosser, Frederick, to GAF Corporation. Stable aqueous emulsions. 3,468,832, 9-23-69, Cl. 260-29.6
Barainsky, Rudolf. Paneling arrangement. 3,425,181, 2-4-69, Cl. 52-480.
Baralle, Roger: *See—*
Larive, Henri; and Baralle, Roger,3,437,659.
Baran, Francis R.: *See—*
De Voldre, Joseph J.; Baran, Francis R.; and Bahouth, Tayseer G.,3,437,598.
Baran, John S., to Searle, G. D., & Co.17-Oxygenated estra-1,3,5(10)-triene-3,11β,16- triols, ethers and esters thereof. 3,449,383, 6-10-69, Cl. 260-397.5
Baran, John S., to Searle, G. D., & Co.(Optionally 17-alkylated) 11β-acyloxyester-4- ene-3β,17β-diols and esters thereof. 3,452,062, 6-24-69, Cl. 260-397.5
Baran, John S., to Searle, G. D., & Co.3-(3-Oxo-11β,13β-dialkyl-17β-hydroxygonen 17α-yl) propionic acid γ-lactones and intermediates. 3,462,426, 8-19-69, Cl. 260-239.57
Baran, John S., to Searle, G. D., & Co.17-(Unsaturated hydrocarbon-substituted) 11,13β- dialkylgon-4-ene-3,17β-diols and esters thereof. 3,465,010, 9-2-69, Cl. 260-397.5
Baran, John S., to Searle, G. D., & Co.3,14β, 17-Trisoxygenated 13β-alkyl-11, 14α-epoxy- 8,14-secogona-1,3,5(10), 8-tetraenes. 3,476,773, 11-4-69, Cl. 260-346.2
Baran, John S., to Searle, G. D., & Co. 16-Oxa and 17-oxa-D-homoestra-1,3,5(10)-trien-3-ols and D-nor-seco-diols corresponding, ethers and esters thereof. 3,483,226, 12-9-69, Cl. 260-345.2
Baranauckas, Charles F.; Campbell, Donald H.; and Carr, Russell L. K., to Hooker Chemical Corporation. Product prepared by reduction of hexafluoroglutaryl chloride. 3,448,148, 6-3-69, Cl. 260-544.
Baranauckas, Charles F.; and Gordon, Irving, to Hooker Chemical Corporation. Fire-retardant polymers containing hydroxy-phosphorus polymers. 3,434,981, 3-25-69, Cl. 260-2.5
Baranauckas, Charles F.; and Gordon, Irving, to Hooker Chemical Corporation. Phosphato-phosphorus compounds and process for preparing same. 3,437,721, 4-8-69, Cl. 260-928.
Baranauckas, Charles F.; and Gordon, Irving, to Hooker Chemical Corporation. Bisphenol bisphosphites and method of manufacture thereof. 3,484,506, 12-16-69, Cl. 260-930.
Baranauckas, Charles F.; and Hodan, James J., to Hooker Chemical Corporation. Preparation of esters of phosphoric acid. 3,445,547, 5-20-69, Cl. 260-971.
Baranger, Pierre. Use of geranylhydroquinone as radiation protective agent. 3,424,848, 1-28-69, Cl. 424-346.
Baranger, Pierre. Method of treating avian lymphomatosis induced by ES04 strain of lymphomatosis virus. 3,429,971, 2-25-69, Cl. 424-343.
Baranoff, Albert J.; and Langheinrich, Wolfgang F., to International Telephone and Telegraph Corporation,mesne. Electrically actuatable counter-printer assembly. 3,429,258, 2-25-69, Cl. 101-79.
Baranosky, James: *See—*
Richards, Powell; and Baranosky, James,3,466,361.
Baranowski, Eugene, to Integrated Systems, Inc. Fixture for use in a suspended grid ceiling system. 3,426,188, 2-4-69, Cl. 240-9.
Barash, Meyer; and Brostrup-Jensen, Per, to Bell Telephone Laboratories, Incorporated. Fault-generated surge responsive fault locating system for frequency division multiplexed transmission facilities. 3,470,331, 9-30-69, Cl. 179-175.3
Baratella, Pietro: *See—*
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi,3,459,807.
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi,3,464,931.
Baravalle, Thomas R., to Gerdau Chemical Corporation. Insecticidal-germicidal compositions of quaternary ammonium ortho phenyl phanate halide complexes. 3,458,629, 7-29-69, Cl. 424-187.
Barb, Earl C., to General Cable Corporation. Terminal housing for underground electrical distribution systems. 3,445,581, 5-20-69, Cl. 174-38.
Barb, Wolfgang Gerson, to Staflex International Limited. Method of forming a fusible interlining material. 3,464,876, 9-2-69, Cl. 156-155.
Barbaras, Glen D., to Du Pont de Nemours, E. I., and Company. Isostatic hot pressing of refractory bodies. 3,455,682, 7-15-69, Cl. 75-204.
Barbato, Robert E.; and Davis, David T., to Bell Telephone Laboratories, Incorporated. Line circuit for a key telephone system utilizing a single multifunction supervisory relay. 3,436,488, 4-1-69, Cl. 179-99.
Barbeau, Raymond A.; Bradford, Rex C.; Fraim, Norman R.; and Lockett, Donald E., to International Business Machines Corporation. Gap length-limited saturation depth recording. 3,449,756, 6-10-69, Cl. 346-74.
Barbeau, Raymond A.; Day, Kelly B., Jr.; and Weidenhammer, James A., to International Business Machines Corporation. Concave-surfaced vacuum controlled air film. 3,420,424, 1-7-69, Cl. 226-97.
Barbeau, Raymond A.: *See—*
Weidenhammer, James A.; Wroblewski, Edward J.; and Barbeau, Raymond A.,3,465,320.
Barbee, Gail G., to Caterpillar Tractor Company. Ingot handling assembly. 3,421,643, 1-14-69, Cl. 214-147.

Barbee, Gail G.; and Mortimer, John W., to Caterpillar Tractor Company. Automatic shift mechanism for two wheel-four wheel drive vehicle. 3,484,009, 12-16-69, Cl. 214-762.

Barbee, Gail G.: *See—*
Gardner, Charles W.; and Barbee, Gail G.,3,477,601.

Barbee, Walter E. Bookkeeping aid. 3,423,847, 1-28-69, Cl. 35-24.

Barbee, Walter J., to B & S Machinery Company. Method of knitting hosiery blanks. 3,434,308, 3-25-69, Cl. 66-149.

Barben, Ian Knowles, to Imperial Chemical Industries Limited. Water-soluble reactive metal-complex azo dyestuffs containing halogeno-S-triazine or pyrimidine groups. 3,455,897, 7-15-69, Cl. 260-146.

Barben, Ian Knowles; and Eckersley, Dennis, to Imperial Chemical Industries, Limited. Water-soluble reactive anthraquinone dyestuffs, their preparation and use. 3,427,308, 2-11-69, Cl. 260-240.

Barben, Ian Kowles; and Eckersley, Dennis, to Imperial Chemical Industries Limited. Water-soluble, reactive 1:2-cobalt azo dyestuffs containing halogeno or sulpho-s-triazine groups. 3,484,432, 12-16-69, Cl. 260-146.

Barber, Alfred W. Combined reference voltage source and comparison voltmeter with digital indicator. 3,465,246, 9-2-69, Cl. 324-98.

Barber, Alfred W. Privacy communications method and means employing frequency shifting of components of voice signals. 3,483,326, 12-9-69, Cl. 179-1.5

Barber, Anthony Clifford, to Imperial Metal Industries (Kynoch) Limited. Method of obtaining an intermetallic compound of niobium and tin in fabricated form. 3,466,237, 9-9-69, Cl. 204-181.

Barber, Anthony Clifford; and Farmer, Francis John Vernon, to Imperial Metal Industries (Kynoch) Limited. Superconductors. 3,465,429, 9-9-69, Cl. 29-599.

Barber, Anthony Clifford; and Farmer, Francis John Vernon, to Imperial Metal Industries (Kynoch) Limited. Method of making superconductor stock. 3,465,430, 9-9-69, Cl. 29-599.

Barber, Anthony Clifford: *See—*
Morton, Peter Harlow; and Barber, Anthony Clifford,3,472,944.

Barber, Charles H. Doorknob keyhole guard. 3,457,745, 7-29-69, Cl. 70-424.

Barber, Donald Robert: *See—*
Cattermole, Kenneth William; Barber, Donald Robert; and Lambourn, Edward Harry,3,445,681.

Barber, Donald Robert; and Nye, Richard Alfred, to International Standard Electric Corporation. Amplifier regulation. 3,441,866, 4-29-69, Cl. 330-29.

Barber, Franklin D., to Standard Car Truck Company. Torsion dampened railway truck spring bolster. 3,469,537, 9-30-69, Cl. 105-197.

Barber, Harold G.; and Redmond, William G., to Ling-Temco-Vought, Inc. Multiphase voltage monitoring system. 3,428,864, 2-18-69, Cl. 317-31.

Barber, Harry A.: *See—*
Farnham, Robert E.; Smith, Donald W.; and Barber, Harry A.,3,458,177.

Barber, John B.: *See—*
Sterrett, James R.; Emery, James C.; and Barber, John B.,3,468,609.

Barber Manufacturing Company, Inc.: *See—*
Bechtoldt, Wayne A., 3,425,068.

Barber, Mark R.; and Fisher, Reed E., to Bell Telephone Laboratories, Incorporated. Pulse code modulation apparatus. 3,460,122, 8-5-69, Cl. 332-10.

Barber, Michael Stuart; Broad, David Rex; and Heywood, Basil Jason, to May & Baker Limited. Certain 2-alkanoylamino-5-halothiazoles. 3,427,318, 2-11-69, Cl. 260-306.8

Barber, Michael; Broad, David Rex; and Heywood, Basil Jason, to May & Baker Limited. Thiazole derivatives. 3,468,899, 9-23-69, Cl. 260-306.8

Barber, Ralph F.: *See—*
Arvidson, Bengt A.; and Barber, Ralph F.,3,453,167.

Barber, Richard P.; Barnhardt, Paul G.; and James, Steve C., to Burlington Industries, Inc. Textile treating process and product obtained thereby. 3,457,025, 7-22-69, Cl. 8-115.6

Barber, Ronald B., to Neptune Meter Company. Oscillating piston meter. 3,430,537, 3-4-69, Cl. 91-56.

Barber, Ronald B., to Neptune Meter Company. Oscillating piston-type flow meter. 3,434,345, 3-25-69, Cl. 73-257.

Barber, Ronald Jesse. Reels. 3,426,978, 2-11-69, Cl. 242-74.

Barber, Stanley Frederick, to C.A.V. Limited. Tubular part having a passage way formed in the wall thereof. 3,451,627, 6-24-69, Cl. 239-533.

Barber, Stanley Frederick, to C.A.V. Limited. Method of forming a tubular part having a passageway formed in the wall thereof. 3,468,008, 9-23-69, Cl. 29-157.

Barber, Stanley. Spring loaded shackle. 3,462,945, 8-26-69, Cl. 59-86.

Barber, William Austin: *See—*
Arcano, Stephen; and Barber, William Austin,3,457,116.

Barber, William Austin, to American Cyanamid Company. Method for preparing fuel cell electrodes. 3,440,107, 4-22-69, Cl. 136-120.

Barber-Colman Company: *See—*
Campbell, William G., 3,453,931.
Crandall, Charles B.; and Townsend, Franklin L., 3,468,116.
Kelly, Peter W., 3,469,495.
Mahoney, Robert J.; and Tucker, Richard L., 3,456,811.
Morlen, Jon R., 3,454,855.
Stark, Ernest H., 3,452,928.
Trost, Wayne C.; and Mahoney, Robert J., 3,479,988.
Wieneke, Frederick L., 3,444,601.

Barber-Greene Company: *See—*
Archer, Fred Curtis, 3,467,281.
De Diemar, Ronald B., 3,459,383.
DeDiemar, Ronald B.; and Archer, Fred Curtis, 3,473,744.
Farnham, Robert E.; Smith, Donald W.; and Barber, Harry A., 3,458,177.
Zink, Ben J., 3,481,057.

Barbera, Edmund C. Puncture resistant inflatable articles. 3,438,419, 4-15-69, Cl. 152-338.

Barberis, Giuseppe: *See—*
Caporali, Giorgio; Barberis, Giuseppe; Ferlazzo, Natale; and Penzo, Vittorio,3,462,477.

Barbie, Helen C.; and Barbie, John N. Traffic safety signalling system. 3,431,554, 3-4-69, Cl. 340-32.

Barbie, John N.: *See—*
Barbie, Helen C.; and Barbie, John N.,3,431,554.

Barbier De Courteix, Joseph. Single-barrelled plugging pistol provided with a pivoting gun. 3,472,441, 10-14-69, Cl. 227-11.

Barbier, Jean F.: *See—*
Bacon, Robert E.; and Barbier, Jean F.,3,447,927.

Barbier, Jean Y., to Intertherm, Inc. Electric hot water space heating unit having improved circulation path. 3,469,075, 9-23-69, Cl. 219-341.

Barbier, Jean Y., to International Oil Burner Company. Forced air circulation hot water heater unit. 3,473,006, 10-14-69, Cl. 219-365.

Barbier, Maurice; and Sayous, Leon, to Societe Nationale des Petroles d'Aquitaine. Method of exploration by transmission of mechanical waves, installation for carrying out the method and the applications thereof. 3,483,514, 12-9-69, Cl. 340-15.5

Barbieri, John Dante; and Gucker, George. Resolving compass utilizing photo- potentiometers. 3,480,788, 11-25-69, Cl. 250-237.

Barbin, Robert L., to Radio Corporation of America. Auxiliary beam deflection yoke. 3,424,942, 1-28-69, Cl. 315-27.

Barbini, Spartacus, to Compagnie Generale d'Electricite. Laser control apparatus. 3,480,876, 11-25-69, Cl. 331-94.5

Barbod, Hooshang, to Crompton & Knowles Corporation. Picker tooth. 3,445,895, 5-27-69, Cl. 19-97.

Barbopoulos, Anthony D.: *See—*
Schlichting, Hans L.; Barbopoulos, Anthony D.; and Prahl, Walter H.,3,426,358.

Barbour, Charles W.: *See—*
Hoffman, Philip A.; Barbour, Charles W.; and Egerton, McKenny W., Jr.,3,469,255.

Barbour, Dorothy J. Pinch-pleated draperies. 3,442,319, 5-6-69, Cl. 160-330.

Barbour, John P.: *See—*
Dyke, Walter P.; Grundhauser, Frank J.; and Barbour, John P.,3,428,803.
Lewis, Robert H.; Barbour, John P.; Dyke, Walter P.; and Grundhause, Frank J.,3,482,096.

Barcaro, Eugene B.; and Best, Donald T., to Sperry Rand Corporation. Removable magnetic data storage system. 3,456,250, 7-15-69, Cl. 340-174.1

Barch, John J., to Tenneco Chemicals, Inc. 2,4,5-Nitrodihalobenzyl thiocyanates. 3,476,790, 11-4-69, Cl. 260-454.

Barch, John J.; and Minieri, Pasquale P., to Tenneco Chemicals, Inc. N-(Dibutylstannylene)chlorotoluenesulfonamides. 3,437,678, 4-8-69, Cl. 260-429.7

Barchi, Henry J.; Ferguson, Donald C.; and Smith, Merrill M., to American Biltrite Rubber Co., Inc. Apparatus for registration of plastic web. 3,465,384, 9-9-69, Cl. 18-4.

Barchilon, John. Dirigible catheter. 3,470,876, 10-7-69, Cl. 128-348.

Barchok, Donald J., to Admiral Corporation. Self-oscillating deflection generator. 3,435,282, 3-25-69, Cl. 315-27.

Barcita, Jose M. Automatic toilet deodorizer. 3,428,970, 2-25-69, Cl. 4-223.

Barclay, Ralph R.: *See—*
Hodge, Frederick J.; and Barclay, Ralph R.,3,461,230.
Hodge, Frederick J.; and Barclay, Ralph R.,3,463,874.

Barclay, Raymond W., to Mobil Oil Corporation. Hydrocarbon conversion catalyst. 3,444,097, 5-13-69, Cl. 252-455.

Barclays Bank Limited: *See—*
Furman, George T.; and Fraser, Reginald Percy,3,425,407.

Barcro-Olympic Stranders Limited: *See—*
McGonigal, Samuel, 3,469,386.

Barcus, Jack L.: *See—*
Baynes, William R.; Marason, Gabriel, Jr.; and Barcus, Jack L.,3,484,828.

Barcus, Samuel W., Jr.: *See—*
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S.,3,434,828.

Bard, Charleton C.; and Vogt, Howard W., to Eastman Kodak Company. Combined formaldehyde and bis-bisulfite aldehydes as hardeners. 3,451,817, 6-24-69, Cl. 96-66.

Bard, Elmer H., to Beatrice Foods Co., mesne. Cleaning apparatus. 3,452,379, 7-1-69, Cl. 15-1.

Barday, Donald J. Method for cleaning objects with solvent. 3,460,990, 8-12-69, Cl. 134-31.

Bardeau, William M.; and Connolly, John J. Grilling or broiling apparatus. 3,472,156, 10-14-69, Cl. 99-423.

Barden, Wayne A.: *See—*
Van Benthuysen, John D.; and Barden, Wayne A.,3,469,311.

Bardenhagen, Dietrich, to Hauni-Werke Korber & Co., KG. Apparatus for assembling batches of rod shaped articles. 3,448,846, 6-10-69, Cl. 198-35.

Bardenhagen, Dietrich, to Hauni-Werke Korber & Co., KG. Apparatus for manipulating rod-shaped articles. 3,460,687, 8-12-69, Cl. 214-17.

Bardenhagen, Dietrich; and Niemann, Helmut, to Hauni-Werke Korber & Co., KG. Cut-off for cigarette rods or the like. 3,476,002, 11-4-69, Cl. 83-310.

Bardenhagen, Dietrich; and Schubert, Bernhard, to Hauni-Werke Korber & Co., KG. Method and apparatus for packing blocks of cigarettes and the like. 3,479,787, 11-25-69, Cl. 53-14.

Bardet-Neyrin, Rene. Packing of paste products. 3,478,901, 11-18-69, Cl. 214-16.

Bardgette, John J.: *See—*
Hindman, Robert G.; and Bardgette, John J.,3,426,542.

Bardi, Michael G. Sign. 3,421,240, 1-14-69, Cl. 40-65.

Barditch, Irving F.; and Taylor, Charles J., to Westinghouse Electric Corporation. Electrophoretic treatment of photoresist for microcircuity. 3,423,262, 1-21-69, Cl. 156-13.

Barditch, Irving F.: *See—*
Gallagher, Robert C.; and Barditch, Irving F.,3,440,503.

Bardong, Helmut, to Suddeutsche Kuhlerfabrik Julius Fr. Behr. Air conditioning installation for motor vehicles. 3,426,549, 2-11-69, Cl. 62-244.

Bardonnet, Pierre: *See—*
Levillain, Jacques; and Bardonnet, Pierre,3,452,484.

Bardons & Oliver, Inc.: *See—*
Hicks, Morris R.; and Le Veque, Joseph C., 3,447,220.

Bardswich, Joseph. Mill hole and tunnel lining structure. 3,450,165, 6-17-69, Cl. 138-100.

Bardwell, Francis G.; and Redman, Derek H., to Stewart-Warner Corporation. Pattern contour tracing apparatus utilizing pulsating light source. 3,423,589, 1-21-69, Cl. 250-202.

Barecki, Chester J.; and Henrikson, Bror W., to American Seating Company. Safety vehicle. 3,481,624, 12-2-69, Cl. 280-150.

Barecki, Chester J.; Henrikson, Bror W.; and Nordmark, Walter E., to American Seating Company. Vehicular safety reel. 3,478,981, 11-18-69, Cl. 242-107.4

Barecki, Chester J.; and Hozeski, Kenneth W., to American Seating Company. Vehicle seat. 3,482,875, 12-9-69, Cl. 297-456.

Barecki, Chester J.; and Knapp, Robert L., to American Seating Company. Chair assembly. 3,486,790, 12-30-69, Cl. 297-142.

Barecki, Chester J.; and Lindberg, William S., to American Seating Company. Tape recorder cabinet. 3,476,455, 11-4-69, Cl. 312-223.

Barecki, Chester J.; and Morse, Richard A., to American Seating Company. Safety seat structure. 3,464,751, 9-2-69, Cl. 297-216.

Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Motor vehicle top construction. 3,446,528, 5-27-69, Cl. 296-137.

Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Arrangement of safety belts in vehicles. 3,448,996, 6-10-69, Cl. 280-150.

Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Head protection for vehicle passengers. 3,479,054, 11-18-69, Cl. 280-150.

Barenyi, Bela; and Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Axle arrangement for automotive vehicles. 3,473,821, 10-21-69, Cl. 280-124.

Barenyi, Bela: *See—*
Wilfert, Karl; and Barenyi, Bela,3,448,992.

Bares, Jiri: *See—*
Erdos, Emerich; and Bares, Jiri,3,432,404.

Bareth, Erich: *See—*
Loge, Hans; and Bareth, Erich,3,436,980.

Baretta, Edward D.: *See—*
Amos, James L.; Baretta, Edward D.; and Dahl, James J.,3,428,707.

Barfield, Charles G.: *See—*
Gable, Wyatt T., Jr.; and Barfield, Charles G.,3,485,019.

Barfred, Niels Georg. Candle dipping machine. 3,474,759, 10-28-69, Cl. 118-426.

Barfuss, Pierre, to Tavannes Machines Co., S.A. Moulding presses. 3,481,000, 12-2-69, Cl. 18-16.

Barg, Dora A. Accessory for brassieres. 3,459,191, 8-5-69, Cl. 128-513.

Barg, Herbert, to True Form Foundations, Inc. Girdle. 3,465,757, 9-9-69, Cl. 128-535.

Bargainnier, Roger B.; Scheithauer, William, Jr.; and Shaffer, Glenn A., to Sylvania Electric Products, Inc. Art of making seamless hollow bodies from sinterable powders. 3,447,230, 6-3-69, Cl. 29-420.5

Bargar Metal Fabricating Company: *See—*
Hoseason, Harry Joseph; and Packman, Walter R., 3,435,568.

Bargen, David W., to Whittaker Corporation. Semiconductor temperature transducer. 3,430,077, 2-25-69, Cl. 307-310.

Barger, Charles H.: *See—*
Crouch, Robert T.; and Barger, Charles H.,3,460,581.

Barger, John J.; and Madewell, George R., to Combustion Engineering, Inc. Apparatus for welding in a narrow, generally vertical, straight-walled groove. 3,482,076, 12-2-69, Cl. 219-126.

Bargero, Camillo. Cylindrical mill for grinding cement. 3,441,226, 4-29-69, Cl. 241-153.

Bargeron, Kim G.; and Soderquist, Fred J., to Dow Chemical Company, The. Preparation of vinylidene aromatic compounds by pyrolysis of diaryl aliphatic compounds. 3,441,625, 4-29-69, Cl. 260-669.

Bargfeldt, Howard G., to United States Steel Corporation. Tension roll housing for cold strip mills. 3,482,426, 12-9-69, Cl. 72-205.

Barghout, Alexander S. Chair. 3,485,527, 12-23-69, Cl. 297-445.

Barhorst, Alphonso F.: *See—*
Pugsley, Vern W.; Barhorst, Alphonso F.; and Brown, Richard H.,3,454,300.

Barickman, Bert E. Apparatus for the production of molecular and crystal models. 3,433,105, 3-18-69, Cl. 77-62.

Barilli, Filippo; Di Fiore, Lucio; and Reni, Cesare, to Societa Italiana Resine S.p.A. Method of preparing ethylenediamine. 3,454,645, 7-8-69, Cl. 260-583.

Baring, John A., to Honeywell Inc. Projecting apparatus. 3,455,441, 7-15-69, Cl. 206-73.

Baring, John A., to Honeywell Inc. Galvanometer including suspension means for generating an electrical feedaback. 3,458,813, 7-29-69, Cl. 324-154.

Baringer, Berlyn E.; Hole, Marvin A.; and Huber, John A., to Coilfeed Systems, Inc. Strip stock processing machine. 3,451,237, 6-24-69, Cl. 72-40.

Baringer, Berlyn E.: *See—*
Frank, Josef; Clemons, Maurice M.; Huber, John A.; and Baringer, Berlyn E.,3,481,523.
Huber, John A.; and Baringer, Berlyn E.,3,425,612.

Barish Associates, Inc.: *See—*
Barish, David T., 3,480,238.

Barish, David T., to Barish Associates, Inc. Glide wing. 3,480,238, 11-25-69, Cl. 244-142.

Barish, Emil Z.: *See—*
Farquhar, Marilyn G.; Smith, Robert E.; and Barish, Emil Z.,3,420,130.

Barkalow, Clare E., to Michigan Instruments, Inc. Pulmonary ventilation system and combination cardiac compressor and ventilation system. 3,461,860, 8-19-69, Cl. 128-53.

Barkalow, Clare E.; and Folkerth, Ilden R., to Michigan Instruments, Inc. Cardiac compressor and ventilation means. 3,461,861, 8-19-69, Cl. 128-53.

Barkan, Philip, to General Electric Company. Gas blast circuit breaker with improved resistor switch. 3,435,166, 3-25-69, Cl. 200-148.

Barkan, Philip, to General Electric Company. Axial blast interrupter with arc-rotating means. 3,471,666, 10-7-69, Cl. 200-148.

Barkan, Philip, to General Electric Company. Double exhaust gas blast circuit breaker. 3,471,667, 10-7-69, Cl. 200-148.

Barkdoll, Joseph P., to SCM Corporation. Typewriter line space mechanism. 3,428,160, 2-18-69, Cl. 197-114.

Barke, Hans Joachim: *See—*
Gersch, Josef; Wiesner, Max; Hoffacker, Franz; Barke, Hans Joachim; Johanns, Heinz; and Kreckeler, Fritz,3,481,552.

Barker, Alfred S., Jr.; and Verleur, Hans W., to Bell Telephone Laboratories, Incorporated. Optical modulator. 3,484,722, 12-16-69, Cl. 332-4.

Barker, Arthur Frederick, to Du Pont de Nemours, E. I., and Company. Aerosol tilt valve for comestibles. 3,450,316, 6-17-69, Cl. 222-513.

Barker, Cedric Chaffer: *See—*
Conway, John Albert; and Barker, Cedric Chaffer,3,432,123.

Barker, Donald W.: *See—*
Parker, Wayland B.; and Barker, Donald W.,3,467,434.

Barker, George E., to Monsanto Company. Electrical control valve. 3,424,951, 1-28-69, Cl. 317-123.

Barker, George E., to Monsanto Company. Liquid level controllers. 3,446,222, 5-27-69, Cl. 137-2.

Barker, George E., to Monsanto Company. Pulsed solenoid control valves. 3,446,473; 5-27-69, Cl. 251-64.

Barker, George E., to Monsanto Company. Electropneumatic valve positioner. 3,455,532, 7-15-69, Cl. 251-29.

Barker, George E., to Monsanto Company. Self-aligning valve seat. 3,455,536, 7-15-69, Cl. 251-333.

Barker, George E., to Monsanto Company. Electropneumatic valve positioner. 3,462,115, 8-19-69, Cl. 251-29.
Barker, George E., to Monsanto Company. Modulating control valve. 3,469,590, 9-30-69, Cl. 137-1.
Barker, George E., to Monsanto Company. Pulsed solenoid control valve. 3,470,892, 10-7-69, Cl. 137-1.
Barker, George E., to Monsanto Company. Pulsed solenoid force balance device. 3,476,128, 11-4-69, Cl. 137-1.
Barker, Guy, Jr., to Lorraine Industries, Inc. Foldable chair. 3,453,023, 7-1-69, Cl. 297-47.
Barker, James E., to Tennessee Corporation. Manufacture of purified ammonium phosphates from wet process phosphoric acid. 3,420,623, 1-7-69, Cl. 23-106.
Barker, James E., to Tennessee Corporation. Method for producing cuprous oxide. 3,457,035, 7-22-69, Cl. 23-147.
Barker, James E.; and Robinson, Julian E., to Tennessee Corporation. Process for producing fluosilicates. 3,462,242, 8-19-69, Cl. 23-88.
Barker, James F., to General Electric Company. Wrought nickel base alloy. 3,467,516, 9-16-69, Cl. 75-171.
Barker, James M.: *See*—
Kilbourn, Eugene Le Roy; and Barker, James M.,3,425,358.
Barker, John S., to Morgan Refractories Limited. Protecting and insulating covering for furnace support members. 3,451,661, 6-24-69, Cl. 263-6.
Barker, John; Gonck, Stanislaw Mieczyslaw; and Love, Kenneth George, to English Electric Company Limited, The. Electric circuit breaker having high- pressure, low-velocity gas blast. 3,453,407, 7-1-69, Cl. 200-148.
Barker, John; Gonek, Stanislaw Mieczyslaw; and Read, Brian Neville, to English Electric Company, Limited, The. Seal between piston rod and cylinder wall. 3,443,484, 5-13-69, Cl. 92-165.
Barker, Keith Lambert, to Lucas, Joseph, (Industries) Limited. Combustion apparatus for gas turbine engines. 3,485,044, 12-23-69, Cl. 60-39.65
Barker, Layle B., to Reynolds Metals Company. Interlocking roof deck and wall construction. 3,420,028, 1-7-69, Cl. 52-588.
Barker, Paul D.; and Torok, Ernest J., to Sperry Rand Corporation. Sharp thin ferromagnetic film. 3,432,828, 3-11-69, Cl. 340-174.
Barker, Pierce, Jr., to Barker Rockford Co. Hydraulic reservoir. 3,480,146, 11-25-69, Cl. 210-250.
Barker, Richard G., to Union Camp Corporation. Sodium polysulfide pulping process and regeneration. 3,470,061, 9-30-69, Cl. 162-32.
Barker, Robert S., to Halcon International, Inc. Process for preparing an aminated benzene. 3,442,950, 5-6-69, Cl. 260-576.
Barker Rockford Co.: *See*—
Barker, Pierce, Jr., 3,480,146.
Barker, Stephen; and Bennett, Paul F., to Utility Trailer Mfg. Company. Dolly for semitrailer. 3,421,777, 1-14-69, Cl. 280-408.
Barker, Stephen; and Fleck, Ray D., to Utility Trailer Mfg. Company. Dual purpose dolly for semitrailers. 3,421,778, 1-14-69, Cl. 280-476.
Barker, Theodore L., to Meyer, Geo. J., Manufacturing Co. Case packer article feed control. 3,421,285, 1-14-69, Cl. 53-61.
Barker, Theodore R., II: *See*—
Hall, William C.; Barker, Theodore R., II; and Hassell, Leigh D., Jr.,3,448,859.
Barker, William M., to General Signal Corporation. Coded supervisory control system. 3,483,518, 12-9-69, Cl. 340-168.
Barkey, Kenneth Thomas, to Eastman Kodak Company. Method for cooling molten polyester prepolymer. 3,463,760, 8-26-69, Cl. 260-75.
Barkhordar, Bahman. Cap with swinging tassel. 3,453,771, 7-8-69, Cl. 46-52.
Barkley, Byron F.; and Kibbie, William H. Cable-dispensing support for conductor-cable reels. 3,458,152, 7-29-69, Cl. 242-86.7
Barkley, Lloyd B.; and Patellis, Anargiros P., to Pennsylvania Industrial Chemical Corporation. Polymerizing unsaturated cyclic hydrocarbons using as catalyst $AlCl_3$*R_3SiX. 3,478,007, 11-11-69, Cl. 260-88.2
Barkman, Aaron: *See*—
Tobin, Richard J.; Barkman, Aaron; and Port, Joe E.,3,471,424.
Barkouki, Moghazi F., to Mobark Instruments. Digital recording apparatus and method. 3,478,327, 11-11-69, Cl. 340-172.5
Barkow, William Henry; and Brasen, Daniel, to RCA Corporation. Light deflecting apparatus. 3,447,853, 6-3-69, Cl. 350-7.
Barkow, William H., to Radio Corporation of America. Torsional light deflector. 3,436,139, 4-1-69, Cl. 350-6.
Barkow, William H., to RCA Corporation. Penetration color displays. 3,478,245, 11-11-69, Cl. 315-13.
Barkrauss Enterprises Ltd.: *See*—
Krauss, Paul, 3,446,885.
Barksdale, Jelks; and Coker, William P., to Dow Chemical Company, The. Coated titanium dioxide pigment. 3,425,855, 2-4-69, Cl. 106-300.
Barkstrom, Nils E. A.: *See*—
Hansen, Sten A. R.; and Barkstrom, Nils E. A.,3,456,562.
Barkstrom, Reynold; and Sutton, Ralph L., to International Harvester Company. Corn picking unit. 3,448,565, 6-10-69, Cl. 56-18.
Barkus, Charles M.: *See*—
Barkus, Homer A., 3,469,870.
Barkus, Homer A., 50% to Barkus, Charles M. Telescopic structure with rotatable shaft. 3,469,870, 9-30-69, Cl. 287-58.
Barland, Lance C.: *See*—
Combs, William H.; Craig, Sam N.; and Barland, Lance C.,3,426,677.
Barletta, Anthony J., to International Equipment Company. Centrifuge bottle and closure therefor. 3,434,615, 3-25-69, Cl. 215-47.
Barlow, Benjamin William, to Bristol Siddeley Engines Limited. Engine drive. 3,420,057, 1-7-69, Cl. 60-39.32
Barlow, Boris Victorien, to Smith, S., & Sons (England) Limited. Scanning apparatus. 3,447,852, 6-3-69, Cl. 350-7.
Barlow, Edson L., Jr., to Berry Industries, Inc. Frequency selective circuit with output according to a ratio of alternating current signals-to-direct current signals which varies with frequency. 3,462,614, 8-19-69, Cl. 307-233.
Barlow, Gordon A., to Marvin Glass & Associates. Sounding and projectile firing writing instrument. 3,448,541, 6-10-69, Cl. 46-175.
Barlow, Gordon A.; Kripak, Leonid; and Disko, Harry, to Marvin Glass & Associates. Reversible race car. 3,445,959, 5-27-69, Cl. 46-244.
Barlow, Gordon A.; Meyer, Burton C.; and Glass, Marvin I., to Glass, Marvin, & Associates. Dueling game apparatus. 3,460,830, 8-12-69, Cl. 273-1.
Barlow, Gordon A.: *See*—
Giraud, Denise C.; Barlow, Gordon A.; and Glass, Marvin I.,3,462,153.
Glass, Marvin I.; and Barlow, Gordon A.,3,462,857.
Stan, Henry; Barlow, Gordon A.; and Meyer, Burton C.,3,464,694.
Barlow, J. P.; and Rakoczi, Laszlo L., to General Electric Company. Apparatus providing common memory addressing in a symbolically addressed data processing system. 3,473,158, 10-14-69, Cl. 340-172.5
Barlow, Jesse P.: *See*—
Aranyi, Steven F.; Barlow, Jesse P.; Rakocz, Laszlo L.; and Torfeh, Mark A.,3,440,616.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B., to General Electric Company. Centrally controlled multicomputer system. 3,444,525, 5-13-69, Cl. 340-172.5
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B., to General Electric Company. Apparatus providing symbolic memory addressing in a multicomputer system. 3,487,373, 12-30-69, Cl. 340-172.5
Barlow, Jesse P.; Jones, Charles R.; and Kerr, James L., to General Electric Company. Apparatus providing a unique decision signal for concurrent interrogation signals. 3,467,948, 9-16-69, Cl. 340-172.5
Barlow, Malcolm; and Planting, Peter J., to Bell Telephone Laboratories, Incorporated. Mercury contact switch having an alloy contact. 3,431,377, 3-4-69, Cl. 200-166.
Barlow, Paul D., to Monsanto Company. Orifice with foraminate means. 3,447,210, 6-3-69, Cl. 28-1.
Barlow, Paul D.; and Marshall, John L., Jr., said Barlow assor. to Monsanto Company. Yarn treating process. 3,422,516, 1-21-69, Cl. 28-72.
Barlow, Paul D.; and Marshall, John L., Jr., to Monsanto Company. Yarn jet apparatus. 3,478,398, 11-18-69, Cl. 28-1.
Barlow, Robert A.: *See*—
Kuhn, Lee H., 3,470,888.
Barlow, Ronald M. Animal cage rack and water bottle support. 3,456,618, 7-22-69, Cl. 119-18.
Barlow, Stephen A.: *See*—
Maithonis, William C.; and Barlow, Stephen A.,3,448,339.
Barlow, Thomas V., to Wingard Limited. Buckles fo safety straps and harnesses. 3,439,388, 4-22-69, Cl. 24-197.
Barlow, Thos., and Sons, Limited: *See*—
Thomas, William J.; and Botha, Louis B., 3,434,548.
Barltrop, Richard Kenneth, to Elliott Brothers (London) Limited. Monitoring of control systems. 3,452,645, 7-1-69, Cl. 91-363.
Barltrop, Richard Kenneth, to Elliott Brothers (London) Limited. Monitoring of control systems. 3,462,660, 8-19-69, Cl. 318-18.
Barmag Barmer Maschinenfabrik Aktiengesellschaft: *See*—
Hessenbruch, Rolf, 3,444,683.
Lenk, Erich, 3,480,995.
Lohest, Hans, 3,435,171.
Martens, Gerhard; Bauer, Karl; Turk, Herbert; and Schiminski, Herbert, 3,487,187.
Schippers, Heinz, 3,471,608.
Barmatic Machines, Inc.: *See*—
Andexler, Charles J., 3,424,484.
Korecky, Allan J., 3,423,115.
Barmeier, Harold J., Jr.; and Wolff, Norman, to Sperry Rand Corporation. Permeability-sensing control system that utilizes a probe which has a magnet, a magnetometer, and a gap-containing path

of magnetic material shunting and close to that magnetometer. 3,445,758, 5g20-69, Cl. 324-34.
Barmer Maschinenfabrik A.G.: *See—*
Ramcke, Carsten, 3,429,515.
Schippers, Heinz; Lohest, Hans; and de Ruig, Jans R., 3,445,073.
Barmore, Stephen Barrett: *See—*
Petrucci, Raymond Mark; and Barmore, Stephen Barrett,3,442,390.
Barna, Alex J. Moving coil electromechanical drive means for a Mossbauer effect velocity spectrometer. 3,484,628, 12-16-69, Cl. 310-13.
Barnabe, Jean-Louis; Callies, Dominique; and Cornier, Jean-Claude, to Societe de Recherches Techniques et Industrielles (S.R.T.I.). Apparatus for processing a solution by reverse osmosis. 3,421,628, 1-14-69, Cl. 210-134.
Barnaby, Albert. Vehicle loading ramp. 3,424,323, 1-28-69, Cl. 214-85.
Barnack, Henry C. Sheet metal brake. 3,481,174, 12-2-69, Cl. 72-319.
Barnack, Henry C. Sheet metal brake. 3,482,427, 12-9-69, Cl. 72-319.
Barnard, Benjamin R.; and Maass, Gustav, to Paul Foundry & Manufacturing Company. Movable shock-absorbing bulkheads. 3,451,357, 6-24-69, Cl. 105-376.
Barnard, Jan Hendrik; and Toet, Dick, to South African Iron and Steel Industrial Corporation Limited. Lance for metal refining. 3,439,911, 4-22-69, Cl. 266-34.
Barnard, John K.: *See—*
Pisano, Anthony M.; and Barnard, John K.,3,422,205.
Barnard, Robert A., to Syndyne Corporation. Drawknob organ switch. 3,452,307, 6-24-69, Cl. 335-153.
Barnard, Walter C.; and Burkinshaw, Kennith E., to Whirlpool Corporation. Dishwasher. 3,458,241, 7-29-69, Cl. 312-228.
Barnard, Walter C.; and Coburn, Robert W., Sr., to Whirlpool Corporation. Receptacle. 3,459,462, 8-5-69, Cl. 312-228.
Barnard, Walter C.: *See—*
Clearman, Jack F.; and Barnard, Walter C.,3,433,363.
Barnby, Bernice P.: *See—*
Barnby, Herbert A.,3,438,790.
Barnby, Herbert A., deceased0 (by Barnby, Bernice P.; executrix), to Owens-Illinois, Inc. Method and apparatus for packaging. 3,438,790, 4-15-69, Cl. 99-182.
Barned, Alan James: *See—*
Warman, Bloomfield James; Hicks, Donald Keith; and Barned, Alan James,3,449,521.
Barner, Elwood M., to Federal Equipment Co. Combination lock with upset mechanism. 3,481,167, 12-2-69, Cl. 70-314.
Barnes, Andrew F. Beet topping assembly. 3,426,514, 2-11-69, Cl. 56-121.46
Barnes, Bernard B., to Woodward Governor Company. Speed control system. 3,442,277, 5-6-69, Cl. 137-36.
Barnes, Bruce E., to Phillips Petroleum Company. Tube collapsing apparatus. 3,469,282, 9-30-69, Cl. 18-14.
Barnes, Charles M.: *See—*
Lewis, Richard L.; and Barnes, Charles M.,3,438,399.
Barnes, Charles R., to United States of America, Air Force. Low temperature process for pyrolytic deposition of zirconium oxide films. 3,472,680, 10-14-69, Cl. 117-106.
Barnes, Clair E. Jig master. 3,478,436, 11-18-69, Cl. 33-170.
Barnes, Clyde R., to Mix-Mill, Inc. Torque responsive overload switch. 3,423,546, 1-21-69, Cl. 200-52.
Barnes, Clyde R., to Mix-Mill, Inc. Automatic high-speed outlet. 3,451,531, 6-24-69, Cl. 198-213.
Barnes Development: *See—*
Barnes, James W.; and Hook, Kenneth R., 3,480,902.
Barnes, Donald A. Apparatus for sizing textile. 3,465,716, 9-9-69, Cl. 118-405.
Barnes, Douglas T. R. W., to Douglas Barnes Limited. Bending and cutting machines. 3,486,407, 12-30-69, Cl. 83-630.
Barnes Drill Co.: *See—*
Estabrook, Mark R., 3,455,066.
Estabrook, Mark R., 3,466,809.
Jakimcius, Zigmant, 3,447,306.
Marriott, Roger, 3,456,797.
Barnes Engineering Company: *See—*
Astheimer, Robert W.; and McHenry, Thomas F., 3,446,559.
Astheimer, Robert W., 3,449,121.
Astheimer, Robert W.; and Buckley, Robert E., 3,459,945.
Astheimer, Robert W., 3,475,963.
Astheimer, Robert W., 3,480,777.
Astheimer, Robert W., 3,486,024.
Barnes, Robert Bowling; and Paaso, Herman, Jr., 3,456,111.
Hall, Richard W., 3,471,237.
Jankowitz, Gerald; and Falbel, Gerald, 3,476,938.
Kallet, Eli A.; and Stanfill, Daniel F., III, 3,422,267.
McHenry, Thomas F., 3,453,432.
Norton, Bruce, 3,420,688.
Savoca, Robert C., 3,457,410.
Spangenberg, Peter E., 3,453,442.
Villers, Philippe; and Falbel, Gerald, 3,424,624.
Villers, Philippe, 3,436,274.
Villers, Philippe, 3,483,045.
Yoder, John R.; and McIntosh, Robert B., Jr., 3,435,212.
Barnes, George H., to Burroughs Corporation. System for the control of parametric oscillations. 3,421,017, 1-7-69, Cl. 307-88.
Barnes, George H., to Burroughs Corporation. Method and apparatus for nondestructive memory devices. 3,435,426, 3-25-69, Cl. 340-174.
Barnes, George J. P.: *See—*
Cragg, William Donald; and Barnes, George J. P.,3,445,595.
Barnes, George John Preston: *See—*
Leman, Hugh Spence; and Barnes, George John Preston,3,448,217.
Leman, Hugh Spence; Barnes, George John Preston; and Green, John Uvedale,3,440,362.
Scarr, Robert Walter Alister; Barnes, George John Preston; and Roworth, Donald Anthony Acott,3,471,791.
Barnes, Harold N.: *See—*
Steck, Robert S.; and Barnes, Harold N.,3,430,678.
Barnes, James L., to General Electric Company. Magnetic transducer head with remanent flux shunt gap spacer. 3,485,962, 12-23-69, Cl. 179-100.2
Barnes, James W.; and Hook, Kenneth R., to Barnes Development. Integrated circuit carrier. 3,480,902, 11-25-69, Cl. 339-17.
Barnes, John V., to Ford Motor Company. Inside caliper disc brake. 3,424,277, 1-28-69, Cl. 188-73.
Barnes, John V.; and Sampietro, Achille C., to Ford Motor Company. Independent rear suspension for a motor vehicle with anti-squat characteristics. 3,451,497, 6-24-69, Cl. 180-73.
Barnes, John W., to Kollsman Instrument Corporation. Fibre optic scanner device for navigational instruments. 3,449,587, 6-10-69, Cl. 250-227.
Barnes, Lell E.: *See—*
Smith, Edgar J.; and Barnes, Lell E.,3,434,132.
Barnes, Lewyn E.; and Struble, Paul F., to Kleen-Tip Corporation, The. Motorized torch for cutting structural members. 3,450,398, 6-17-69, Cl. 266-23.
Barnes, Philip E.; and Kusiak, Edward H., to United Aircraft Corporation. Vibration damper. 3,470,748, 10-7-69, Cl. 73-522.
Barnes, Richard D., to Conolon Corporation, The. Fishing rod handle. 3,451,156, 6-24-69, Cl. 43-22.
Barnes, Richard R., to Bell Telephone Laboratories, Incorporated. Method and apparatus for monitoring the operation of unattended amplifiers. 3,450,847, 6-17-69, Cl. 179-175.31
Barnes, Robert Bowling; and Paaso, Herman, Jr., to Barnes Engineering Company. Thermograph system for producing thermograms having identification characters simultaneously recorded thereon. 3,456,111, 7-15-69, Cl. 250-67.
Barnes, Robert W., to Kidde, Walter, & Company, Inc., mesne. Foam generator with water powered axial flow fan. 3,441,086, 4-29-69, Cl. 169-15.
Barnes, Robert W., to Kidde, Walter, & Company, Inc. Firefighting foam generator. 3,482,638, 12-9-69, Cl. 169-15.
Barnes, Roscoe C.: *See—*
Borst, Kenneth C.; and Barnes, Roscoe C.,3,436,197.
Barnes, Stanley Charles; and Puzey, John Edwin, to Lucas, Joseph, (Industries) Limited. Interconnection of lead parts. 3,484,928, 12-23-69, Cl. 29-488.
Barnes, Theodore Marion: *See—*
Burrough, Donald E.; and Barnes, Theodore Marion,3,474,601.
Leinhauser, Joe Paul; Fairbank, Raymond Harry; Burrough, Donald E.; and Barnes, Theodore Marion,3,459,273.
Barnes, Thomas M. Punch card meter reading device. 3,471,083, 10-7-69, Cl. 234-30.
Barnes, Vernon M., Jr.: *See—*
Flournoy, Norman E., Sr.; and Barnes, Vernon M., Jr.,3,428,062.
Barnes, Willard. Method and apparatus for washing solids away from single or multiple tubing strings in well. 3,478,826, 11-18-69, Cl. 166-301.
Barnes, William A.; and Redo, Saverio F., to Cornell Research Foundation, Inc. Dextran sulphate treatment of peptic ulcers. 3,487,150, 12-30-69, Cl. 424-180.
Barnes, William I., to Standard Screw Company. Chrome plated metering valve. 3,430,613, 3-4-69, Cl. 123-90.
Barnes, Wilson J.: *See—*
Owens, Robert S.; and Barnes, Wilson J.,3,458,260.
Barnes-Hind International, Inc.: *See—*
Hungerford, Richard C.; and Brown, Frank E., 3,444,868.
Sturgeon, Robert G., 3,460,552.
Barnett, Allan E.: *See—*
Sinfelt, John H.; Barnett, Allan E.; and Dembinski, George W.,3,442,973.
Barnett, Arthur G.: *See—*
Bader, Clifford J.; Fussell, Richard L.; and Barnett, Arthur G.,3,443,213.
Barnett, Burton; and Kinsler, Martin R., to North American Rockwell Corporation. Screening for engines. 3,487,410, 12-30-69, Cl. 343-18.

Barnett, Burton; Moisson, George; and Pietka, Robert J., to North American Rockwell Corporation. Mounting means. 3,442,479, 5-6-69, Cl. 248-358.

Barnett, Charles W. H., to United States of America, Army. Ceramic memory device. 3,448,437, 6-3-69, Cl. 340-173.2

Barnett, Claude D., to Calico Cottage Candies, Inc. Method of making buttercream candy. 3,434,847, 3-25-69, Cl. 99-134.

Barnett, Don Carlos; and Ganske, Kingston E., to Newell Associates, Inc. Tape transport apparatus. 3,482,800, 12-9-69, Cl. 242-192.

Barnett, Douglas, to Brown, S. G., Limited. Gyroscopic apparatus. 3,420,112, 1-7-69, Cl. 74-5.22

Barnett, Eugene J., to Westinghouse Electric Corporation. Range apparatus. 3,473,858, 10-21-69, Cl. 312-111.

Barnett, Eugene R.; and Barnett, Willard L. Power unit. 3,450,110, 6-17-69, Cl. 123-71.

Barnett, Eugene R.; and Barnett, Willard L. Disposable container. 3,452,898, 7-1-69, Cl. 220-89.

Barnett, Eugene R.; and Barnett, Willard L. Audible greeting card. 3,462,157, 8-19-69, Cl. 274-9.

Barnett, Guy F., to Simco Company, Inc., The. Ionized gas electrostatic copyboard. 3,473,097, 10-14-69, Cl. 317-262.

Barnett, Guy F., to Simco Company, Inc., The. Multilayer electrostatic copyboard and light panel. 3,480,364, 11-25-69, Cl. 355-75.

Barnett, Howard J. Apparatus for grinding multifocal contact lens. 3,420,006, 1-7-69, Cl. 51-129.

Barnett, Howard J. Process for making a multifocal contact lens. 3,471,976, 10-14-69, Cl. 51-284.

Barnett, Irwin; and Williams, Jake Millard. Method and game for decorating eggs and other objects. 3,484,797, 12-16-69, Cl. 33-21.

Barnett, James C., to Monsanto Company. Flame retardant polyurethane materials. 3,423,343, 1-21-69, Cl. 260-2.5

Barnett, Kenneth W.: *See—*
McClure, James D.; and Barnett, Kenneth W.,3,424,816.

Barnett, Kenneth W.; and Raley, John H., to Shell Oil Company. Olefin oligomerization. 3,459,826, 8-5-69, Cl. 260-683.15

Barnett, Richard D.; and Strcich, Robert E., to Western Electric Company, Incorporated. Ultra high frequency method and apparatus for locating an insulating fault between two insulated electrical conductors. 3,462,682, 8-19-69, Cl. 324-54.

Barnett, Stanley D., to Venetianaire Corporation of America. Shade and valence construction. 3,469,619, 9-30-69, Cl. 160-19.

Barnett, Stanley: *See—*
Simon, Herman R.; and Barnett, Stanley,3,443,963.

Barnett, Willard L.: *See—*
Barnett, Eugene R.; and Barnett, Willard L.,3,450,110.
Barnett, Eugene R.; and Barnett, Willard L.,3,452,898.
Barnett, Eugene R.; and Barnett, Willard L.,3,462,157.

Barnett, William J., to Pansteel, Inc. Nickel-base dispersion hardened alloy. 3,434,810, 3-25-69, Cl. 29-182.5

Barnette, Dean E.: *See—*
Zurcher, Raymond W., 3,436,729.

Barnette, Lynn M.: *See—*
Sherrill, Clark A.; and Barnette, Lynn M.,3,460,186.

Barnette, Stanley Ronald. Solid stone appearing cast plastic articles with a partially enveloped structural core. 3,457,133, 7-22-69, Cl. 161-5.

Barney, Neil Ide: *See—*
Levesque, George Napoleon; Taylor, Paul Eugene; and Barney, Neil Ide,3,427,755.

Barney, Walter W. Validator apparatus for magnetic credit cards and the like. 3,430,200, 2-25-69, Cl. 340-149.

Barney, Walter W. Encoder apparatus for magnetic credit cards and the like. 3,471,862, 10-7-69, Cl. 346-74.

Barney, Walter W. Magnetic switch assembly for operation by magnetic cards. 3,474,365, 10-21-69, Cl. 335-206.

Barney, Walter W. Magnetic switch assembly for operation by magnetic cards. 3,474,366, 10-21-69, Cl. 335-206.

Barnhardt, Paul G.: *See—*
Barber, Richard P.; Barnhardt, Paul G.; and James, Steve C.,3,457,025.

Barnhart, Thomas F.; and Rueckl, Roger L., to United States Steel Corporation. Method and apparatus for making slag pellets. 3,469,961, 9-30-69, Cl. 65-20.

Barnhill, Kenneth S., Jr.: *See—*
Clark, Howard P.; Barnhill, Kenneth S., Jr.; and Wilson, Martin,3,446,443.

Barnhouse, Paul L. Apparatus for making a scrub puff. 3,481,651, 12-2-69, Cl. 300-16.

Barnhurst, James Douglas; Leigh, Gilbert Merlin; and Monick, John Alexander, to Colgate-Palmolive Company. Detergent bars. 3,442,812, 5-6-69, Cl. 252-142.

Barnickel, Thomas. Methods for container taping. 3,420,159, 1-7-69, Cl. 100-2.

Barnikel, Peter J., to General Dynamics Corporation. Volume flow automatic gage control. 3,444,713, 5-20-69, Cl. 72-8.

Barnish, Philip; and Baert, Rober B., to U.S. Philips Corporation, mesne. Variable diameter pulley construction. 3,459,061, 8-5-69, Cl. 74-230.17

Barnish, Philip; and Barrett, Colin, to U.S. Philips Corporation. Domestic washing machines. 3,477,259, 11-11-69, Cl. 68-23.1

Barnish, Philip; Stelwagen, Jan; and Werkman, Thijs Willem, to U.S. Philips Corporation. Hinged self-locking closure devices. 3,452,803, 7-1-69, Cl. 160-213.

Barniskis, Walter A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,992.

Barns, Fred K., to Goodrich, B. F., Company, The. Butt splicer for sheet material. 3,433,690, 3-18-69, Cl. 156-157.

Barnum, Orville G.: *See—*
Caron, Fred Joseph; and Barnum, Orville G.,3,463,063.

Barnum, Orville G., to Rex Chainbelt Inc., mesne. Heavy-duty vehicle. 3,459,437, 8-5-69, Cl. 280-124.

Barogenics, Inc.: *See—*
Boggio, F George, 3,433,382.
Boggio, F. George; and Zeitlin, Alexander, 3,479,856.
Kramarow, Nathan M., 3,479,697.
Zeitlin, Alexander, 3,456,481.

Baron, Albert A.; and Nagy, Francis G., to Parker Instrument Corporation. Electrical control meter having a rotor disk with an arcuate segment for interrupting light between a light source and sensor. 3,435,341, 3-25-69, Cl. 324-150.

Baron, Anthony V., to Allis-Chalmers Manufacturing Company. Tiltable pyrometer mounting for rotary kilns or the like. 3,473,384, 10-21-69, Cl. 73-351.

Baron, Clafford, to Martel, Jean-Guy, and Cote, Monique. Coffin with hand-engaging peripheral flange. 3,470,593, 10-7-69, Cl. 27-15.

Baron, George B., to Marion Power Shovel Company, Inc. Planetary gear reducer. 3,481,222, 12-2-69, Cl. 74-802.

Baron, Gerhard; Ehrhardt, Erwin; and Bechthold, Horst, to Metallgesellschaft Aktiengesellschaft. Process for the manufacture of methane- rich gases. 3,436,198, 4-1-69, Cl. 48-214.

Baron, Gerhard: *See—*
Gross, Hans Werner; Ehrhardt, Erwin; and Baron, Gerhard,3,468,641.

Baron, Heinrich; Klink, Rainer; and Mohr, Gunther, to Merck, E., A.G. Cosmetic composition containing phenyl-benzofuryl -(2)-ketones and method of using same. 3,426,124, 2-4-69, Cl. 424-59.

Baron, Henry A., to Harnischfeger Corporation. Drive mechanism for crawler tracks. 3,486,574, 12-30-69, Cl. 180-9.62

Baron, Herschel; and Schwenk, Arthur, to Jacobs Machine Corporation. Alignment bed and folder. 3,463,482, 8-26-69, Cl. 270-93.

Baron, Joseph J., Jr.; and Kveglis, Albert A., to Dow Chemical Company, The, mesne. Chlorinated polyethylene compositions. 3,429,865, 2-25-69, Cl. 260-94.9

Baron, Karl Heinrich; Klink, Rainer; and Reiff, Fritz, to Merck, E., A.G. UV absorbent compositions containing benzoyl- benzofurans. 3,448,190, 6-3-69, Cl. 424-59.

Baron, Robert E.: *See—*
Mayer, James W.; Marsh, Ogden J.; and Baron, Robert E.,3,424,910.

Baron, Robert R.: *See—*
Vatne, Robert D.; and Baron, Robert R.,3,439,097.

Baron, Wilfred R., to TRW Inc. Solar cells with flexible overlapping bifurcated connector. 3,459,597, 8-5-69, Cl. 136-89.

Baron-Blakeslee Incorporated: *See—*
Hamilton, William R.., 3,424,177.

Barone, Philip, to Bendix Corporation, The. Automatic brake adjuster mechanism. 3,434,574, 3-25-69, Cl. 188-196.

Barontini, Alberto: *See—*
Tonelli, Pietro de Pietri; Rossi, Giorgio; and Barontini, Alberto,3,436,418.

Baroody, Anas J.: *See—*
Jacuzzi, Candido; Nash, Floyd M.; and Baroody, Anas J.,3,427,662.

Barouh, Victor: *See—*
Glenn, Robert; and Barouh, Victor,3,467,235.

Barouh, Victor. Language aid system. 3,435,542, 4-1-69, Cl. 35-35.

Barouh, Victor. Methods of correcting typing errors. 3,459,127, 8-5-69, Cl. 101-463.

Barows, Arthur G., to International Harvester Company. Cutter assembly and blade construction therefor. 3,422,611, 1-21-69, Cl. 56-294.

Barows, Arthur G.; Parrish, Edward W.; and Miner, Robert C., to International Harvester Company. Device for use in handling root crops. 3,442,380, 5-6-69, Cl. 209-241.

Barr, Arthur C. Nursing unit. 3,471,050, 10-7-69, Cl. 215-11.

Barr, Clifford L.: *See—*
Lamb, Marcus J.; De Yarmett, Harry William; and Barr, Clifford L.,3,438,203.

Barr, Courtland H., Jr.: *See—*
Barr, Courtland H., Sr.; Barr, Courtland H., Jr.; Barr, John W.; and Lucas, James W.,3,434,468.

Barr, Courtland H., Sr.; Barr, Courtland H., Jr.; Barr, John W.; and Lucas, James W., to Abbott Laboratories, mesne. Blood sampling device with cannula holder. 3,434,468, 3-25-69, Cl. 128-2.

Barr, Edward J.; and Brooks, John H., to McCulloch Corporation. Apparatus for controlling the flow of fuel to an engine. 3,441,010, 4-29-69, Cl. 123-119.

Barr, Fred S.; and Collins, Galen F., to Massengill, S. E., Company, The. Synergistic antimicrobial compositions. 3,475,540, 10-28-69, Cl. 424n291.
Barr, G., Company: *See*—
Root, Morris J., 3,487,039.
Barr, Harold N.: *See*—
Frank, Louis; and Barr, Harold N.,3,432,295.
Barr, Irwin R., to AAI Corporation. Sabot with internal radial slots. 3,430,570, 3-4-69, Cl. 102-93.
Barr, Irwin R., to AAI Corporation. Sabot. 3,430,571, 3-4-69, Cl. 102-93.
Barr, Irwin R., to AAI Corporation. Fixed primer set-back cartridge. 3,477,374, 11-11-69, Cl. 102-45.
Barr, Irwin R., to AAI Corporation. Piston-primer cartridge. 3,477,375, 11-11-69, Cl. 102-45.
Barr, Irwin R.; and Critcher, John L., to AAI Corporation. Underwater pistol having a rotatable cylindrical magazine. 3,453,763, 7-8-69, Cl. 42-59.
Barr, Irwin R.; and Critcher, John L., to AAI Corporation. Underwater ammunition. 3,476,048, 11-4-69, Cl. 102-54.
Barr, Itzhak Michael: *See*—
Jerushalmi, Shmuel; and Barr, Itzhak Michael,3,437,091.
Barr, James R., to General Electric Company. Reversible cam actuating mechanism for electric switches. 3,467,800, 9-16-69, Cl. 200-153.
Barr, Jeffrey C., to Bell Aerospace Corporation. Surface effect machine skirt structure. 3,481,424, 12-2-69, Cl. 180-124.
Barr, John Denzil, to Rank Organisation Limited, The. Apparatus for controlling the focusing mechanism of a camera. 3,479,944, 11-25-69, Cl. 95-45.
Barr, John W.: *See*—
Barr, Courtland H., Sr.; Barr, Courtland H., Jr.; Barr, John W.; and Lucas, James W.,3,434,468.
Barr, Norman E.; and Tuttle, Charles E., Jr., to Gulf Oil Corporation. Ammonium nitrate explosive package and three- stage method of initiation. 3,474,729, 10-28-69, Cl. 102-23.
Barr, Samuel Rothrock, to General Electric Company. Fluid impingement starting means. 3,451,215, 6-24-69, Cl. 60-39.14
Barr, Thomas A., Jr.; and Cason; Charles M., III, to United States of America, Army. Plasma driven shroud wind tunnel. 3,478,583, 11-18-69, Cl. 73-147.
Barr, Thomas A., Jr.,: *See*—
Roberts, Thomas G.; and Barr, Thomas A., Jr.,,3,464,223.
Barr, Vernon L. Wedge sealing gasket and joint. 3,445,120, 5-20-69, Cl. 277-164.
Barr, Walter, Pty. Limited: *See*—
Hundt, Archibald John, 3,447,261.
Barradell-Smith, Richard; Hall, James Edward; and Roby, James, to Pilkington Brothers Limited. Stacking glass sheets. 3,480,160, 11-25-69, Cl. 214-6.
Barragan, Jacques. Surface lapping machine. 3,456,393, 7-22-69, Cl. 51-129.
Barree, Jean: *See*—
Patin, Pierre; and Barree, Jean,3,462,958.
Barrekette, Euval S.: *See*—
Pole, Robert V.; and Barrekette, Euval S.,3,458,829.
Pole, Robert V.; Myers, Robert A.; Barrekette, Euval S.; and Nunez, Jaen,3,440,561.
Barrekette, Euval S.; Donath, Eric; and Herd, Harold H., to International Business Machines Corporation. Information handling device. 3,423,740, 1-21-69, Cl. 340-174.
Barrekette, Euval S.; and Duffy, John A., to International Business Machines Corporation. Read only memory including first and second conductive layers for producing binary signals. 3,466,615, 9-9-69, Cl. 340--173
Barrekette, Euval S.; Freiman, Charles V.; Gazis, Denos C.; and Lovell, John E., to International Business Machines Corporation. Optic to acoustic converter for pattern recognition. 3,453,595, 7-1-69, Cl. 340-146.3
Barrell, Kenneth; and Phillips, William, to British Industrial Plastics Limited. Alkaline degradation of oxymethylene polymer in the presence of a solution of formaldehyde. 3,466,262, 9-9-69, Cl. 260-67.
Barrentine, Thomas A. Apparatus for pulling stalks. 3,437,152, 4-8-69, Cl. 171-58.
Barrera, Salvatore E., to Muskin Manufacturing Company, Inc. Pool structure. 3,466,676, 9-16-69, Cl. 4-172.
Barrere, Clem A., Jr., to Continental Oil Company. Gas chromatography process. 3,457,705, 7-29-69, Cl. 55-67.
Barret, Jean Pierre: *See*—
Moulin, Pierre; Barret, Jean Pierre; and La Porte, Michel,3,421,138.
Barret, Willis R., to Phillips Petroleum Company. Pull tab for gable top container. 3,450,328, 6-17-69, Cl. 229-17.
Barreto, Clodoveo Guillermo Gonzalez. Apparatus for facilitating the playing of musical instruments. 3,468,209, 9-23-69, Cl. 84-423.
Barrett, Arthur L. Rib extractor with a steerable drilling head structure. 3,421,796, 1-14-69, Cl. 299-59.
Barrett, Cedric A.; and Phillips, William, to Grand Valley Machine & Tool Co. Hydraulic control valve for high pressure hydraulic applications. 3,468,336, 9-23-69, Cl. 137-489.
Barrett, Colin: *See*—
Barnish, Philip; and Barrett, Colin,3,477,259.
Barrett, Edward L., 11% to Pohl, Louis K. Reynolds, H. P. Furar, Frank A., and Pohl, William G. Method for winding coils. 3,464,106, 9-2-69, Cl. 29-596.
Barrett, Edwin R. Remote valve actuation and indication system. 3,439,706, 4-22-69, Cl. 137-554.
Barrett, Harold E., Jr.; and Dickinson, Bernard N., to Diamond Shamrock Corporation. Liquid purification by adsorption. 3,420,709, 1-7-69, Cl. 127-53.
Barrett, Iral D. Key safe. 3,436,937, 4-8-69, Cl. 70-63.
Barrett, James P., to Veeder Industries Inc. Magnetic counter. 3,461,277, 8-12-69, Cl. 235-92.
Barrett, John M., to Automatic Electric Laboratories, Inc. Noise cancelling arrangements for magnetic wire memories. 3,436,741, 4-1-69, Cl. 340-174.
Barrett, John R.; Bray, Thomas E.; and Claflin, Gerald E., to General Electric Company. Radiative interconnection arrangement. 3,486,029, 12-23-69, Cl. 250-217.
Barrett, Keith Edwin James, to Imperial Chemical Industries Limited. Air-drying film-forming compositions. 3,425,975, 2-4-69, Cl. 260-22.
Barrett, Monroe C.; Kenna, Fenton L., Jr.; Nickla, Louis E.; and Clendenin, Wilbur H., to International Harvester Company. Gravity drop accumulator for automatic bale wagon. 3,455,466, 7-15-69, Cl. 214-6.
Barrett, Monroe C.: *See*—
Clendenin, Wilbur H.; Barrett, Monroe C.; Kenna, Fenton L, Jr.; and Fachini, Robert M.,3,446,370.
Lester, William D.; and Barrett, Monroe C.,3,464,190.
Nickla, Louis E.; Barrett, Monroe C.; and Kenna, Fenton L., Jr.,3,441,152.
Barrett, Paul Anthony, to Burroughs Wellcome & Co. (U. S. A.) Inc. Dithiosemicarbazones. 3,478,035, 11-11-69, Cl. 260-293.4
Barrett, Raymond L., to Newton Insert Co. Structure and formation of threaded stud having stop element. 3,455,198, 7-15-69, Cl. 85-1.
Barrett, Robert D.; Ziskal, Joseph F.; and Morgan, Jerry E., to International Harvester Company. Hydraulic seat suspension. 3,474,623, 10-28-69, Cl. 60-51.
Barrett, Robert E. Wiper mechanism. 3,447,187, 6-3-69, Cl. 15-250.16
Barrett, Robert J. Hair ornament. 3,441,032, 4-29-69, Cl. 132-46.
Barrett, Robert W., to Litton Systems, Inc. Switching apparatus for measuring an atmospheric variable. 3,461,325, 8-12-69, Cl. 307-308.
Barrett, Saul P. Portable, foldable, and collapsible rack. 3,483,999, 12-16-69, Cl. 211-178.
Barrett, Walter Edward: *See*—
Werner, Lincoln Harvey; and Barrett, Walter Edward,3,449,500.
Barrett, Willis R.: *See*—
Kinney, Alfred W.; and Barrett, Willis R.,3,457,699.
Barrie, Eric. Radiant gas burner. 3,472,602, 10-14-69, Cl. 431-329.
Barrie, Ian Torrance; and Nield, Eric, to Imperial Chemical Industries Limited. Electrical apparatus. 3,426,228, 2-4-69, Cl. 310-215.
Barringer, Anthony Rene, to Barringer Research Limited. Apparatus for absorption analysis using a source having a broadened emission line. 3,449,565, 6-10-69, Cl. 250-43.5
Barringer, Anthony Rene, to Barringer Research Limited. Synchronous spectral scanning and comparing interferometer. 3,482,919, 12-9-69, Cl. 356-106.
Barringer, Anthony Rene; and Lantz, George Arnold, to Barringer Research Limited. Method and apparatus for remote sensing of substances having characteristic magnetic resonance properties. 3,437,914, 4-8-69, Cl. 324-0.5
Barringer, Anthony Rene; Pronovost, Joseph Olivier Jacques; and Turner, Kenneth Alan, to Barringer Research Limited. Proximity detector. 3,430,221, 2-25-69, Cl. 340-258.
Barringer, Antony Rene, to Barringer Research Limited. Apparatus for detecting monatomic vapours. 3,447,876, 6-3-69, Cl. 356-188.
Barringer Research Limited: *See*—
Barringer, Anthony Rene; Pronovost, Joseph Olivier Jacques; and Turner, Kenneth Alan, 3,430,221.
Barringer, Anthony Rene; and Lantz, George Arnold, 3,437,914.
Barringer, Anthony Rene, 3,449,565.
Barringer, Anthony Rene, 3,482,919.
Barringer, Antony Rene, 3,447,876.
Barrington, Alfred E.; and Caruso, Anthony J., to United States of America, National Aeronautics and Space Administration. Sorption vacuum trap. 3,469,375, 9-30-69, Cl. 55-208.
Barrington, Burchus Q. Pressure maintenance mechanism for hydraulic jar tool and mode of operation thereof. 3,429,389, 2-25-69, Cl. 175-297.
Barrington, Burchus Q., to Halliburton Company. Well tool with hydraulic impedance mechanism and rotary ball valve. 3,435,897, 4-1-69, Cl. 166-226.

Barrington, Burchus Q.; and Edwards, Arnold G., to Halliburton Company. Well tester for making dual measurements of closed-in well pressure and entrapping a well fluid sample. 3,456,726, 7-22-69, Cl. 166-162.
Barrington, Charles E., to Goodyear Tire & Rubber Company, The. Wheel brake disk drive key. 3,438,464, 4-15-69, Cl. 188-72.
Barrington, Robert W. Wear compensating bearings for trailer hitch. 3,477,742, 11-11-69, Cl. 280-444.
Barrio, Cesareo Cubillas. Apparatus for the reactivation of certain functions of the human body. 3,472,223, 10-14-69, Cl. 128-30.
Barroero, Louis F. Refrigerator with heated door frame. 3,449,925, 6-17-69, Cl. 62-275.
Barroero, Louis F. Refrigerator display case. 3,471,210, 10-7-69, Cl. 312-329.
Barron, Daniel. Sonar ray plotter. 3,423,836, 1-28-69, Cl. 33-1.
Barron, Donald B.: *See—*
Phillips, William J.; and Barron, Donald B.,3,426,832.
Barron, Edward R.: *See—*
Korolick, Samuel R.; Barron, Edward R.; James, Peter; and Carlucci, Michael P.,3,452,362.
Lamber, Clarence F.; Rodzen, Richard A.; and Barron, Edward R.,3,458,863.
Barron, Joseph M.: *See—*
Woodle, Robert A.; and Barron, Joseph M.,3,458,432.
Barron, Larry R.: *See—*
Lake, Clarence L.; Barron, Larry R.; and Faud, Robert H.,3,445,436.
Barron, Lee H. Edge beveling machine for non-metallic sheets. 3,427,752, 2-18-69, Cl. 51-92.
Barron, Morton A., to United States of America, Army. Deferred action-type battery. 3,464,863, 9-2-69, Cl. 136-114.
Barron, Roger L. Self-organizing control system. 3,460,096, 8-5-69, Cl. 340-172.5
Barron, William S. Hand truck with brake. 3,422,930, 1-21-69, Cl. 188-22.
Barrow, Gilbert C.: *See—*
Massa, Frank; and Barrow, Gilbert C.,3,474,403.
Barrow, Marvin A., 1/2 to Dutton, Ben W. Dutton, Archie D. Roebuck, C. W. White, Burch B. Dutton, Ross I. Smith, Winston. Nut cracker. 3,422,865, 1-21-69, Cl. 146-12.
Barrowclough, Howard J.: *See—*
Edens, Carrol D.; Norungolo, Patrick C.; and Barrowclough, Howard J.,3,460,660.
Barrus, Gordon B., to Data Products Corporation. Drive system for a step motor. 3,423,658, 1-21-69, Cl. 318-138.
Barry, Adelbert: *See—*
Howell, Lynn G.; Brannon, Hezzie R., Jr.; and Barry, Adelbert,3,472,076.
Barry, Adelbert; Chalmers, Franklin L.; and Pearson, John B., to Esso Production Research Company. Seismic wave source using explosive gas in an expansible enclosure. 3,480,101, 11-25-69, Cl. 181-0.5
Barry, Arthur J.; and Plueddemann, Edwin P., to Dow Corning Corporation. Silane coupling agents for aryl-containing, thermally stable polymers II. 3,481,815, 12-2-69, Cl. 156-329.
Barry, Austin W., to G-V Controls Inc. Battery charging control responsive to rate of rise of battery voltage. 3,424,969, 1-28-69, Cl. 320-21.
Barry, Donald W.: *See—*
Broussard, Douglas E.; and Barry, Donald W.,3,472,035.
Broussard, Douglas E.; Barry, Donald W.; Kinzbach, Robert B.; and Kershner, Stuart G.,3,438,213.
Barry, Edward G., to Mobil Oil Corporation. Air atomizing oil burner. 3,474,969, 10-28-69, Cl. 239-400.
Barry, Frank W., to United Aircraft Corporation. Mach number internal contraction control. 3,450,142, 6-17-69, Cl. 137-15.2
Barry, Frederick Peter, to Du Pont de Nemours, E. I., and Company. Vinylidene chloride copolymer coating composition for water-sensitive organic polymer film. 3,442,836, 5-6-69, Cl. 260-23.
Barry, Guy T.: *See—*
Myers, Direk V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B.,3,458,397.
Barry, John K., to Southco, Inc. Link and lever operated toggle latch mechanism. 3,446,524, 5-27-69, Cl. 292-223.
Barry, John K., to Southco, Inc. Magnetic latch assembly. 3,451,707, 6-24-69, Cl. 292-251.5
Barry, John K., to Southco, Inc. Barbed plastic rivet. 3,461,772, 8-19-69, Cl. 85-83.
Barry, Leonard D. Automatic farming system. 3,472,322, 10-14-69, Cl. 172-26.
Barry, Leonard D. Container, routing storage, and transfer system. 3,483,829, 12-16-69, Cl. 104-18.
Barry, Leonard D. Transportation system. 3,484,002, 12-16-69, Cl. 214-40.
Barry, Lewis Arthur; and Arveson, Elmer J., said Barry assors. to International Minerals & Chemical Corporation, and said Arveson assor. to Chevron Research Company. Method of preparing a complex fertilizer comprising urea coated with ammonium phosphate. 3,425,819, 2-4-69, Cl. 71-29.
Barry, Philip H.; and Vee, Richard F., to Teletype Corporation. Tape supply cabinet. 3,468,491, 9-23-69, Cl. 242-71.1
Barry, Richard Henry; and Weiss, Michael, to Hoffmann-La Roche Inc. Dextromethorphan and benzyl alcohol hard candy lozenges free from opaqueness and/or tiny entrapped air bubbles. 3,427,379, 2-11-69, Cl. 424-14.
Barry, Robert D., to Wurlitzer Company, The. Electronic latching pedal. 3,422,208, 1-14-69, Cl. 84-1.01
Barry, Robert D.: *See—*
Schwartz, Harold O.; and Barry, Robert D.,3,480,719.
Barry, Robert J., to Sylvania Electric Products, Inc. Semiconductor device employing punchthrough. 3,461,324, 8-12-69, Cl. 307-305.
Barry-Wehmiller Company: *See—*
Babunovic, Momir, 3,420,353.
Babunovic, Momir; and Goessman, John C., 3,477,557.
Stapf, Virgil Melvin; and Babunovic, Momir, 3,456,788.
Barsam, Edward Wesley: *See—*
Pajak, Theodore Peter; Barsam, Edward Wesley; and Moll, Bishop Joseph,3,466,733.
Barshefsky, Gustave; and Goldstein, Eugene E., to Celotex Corporation, The, mesne. Method of making a rigid panel of mineral fibers and discrete particles with resin binder. 3,478,137, 11-11-69, Cl. 264-118.
Barsky, George: *See—*
Babayan, Vigen K.; and Barsky, George,3,450,819.
Barsky, George. Manufacture of adiponitrile. 3,424,784, 1-28-69, Cl. 260-465.8
Barsom, John M.: *See—*
Curtze, Edward W.; Wehner, George O.; and Barsom, John M.,3,454,219.
Barson, Fred; and Kuiper, Lubertus L., to International Business Machines Corporation. Masking technique for area reduction of planar transistors. 3,477,123, 11-11-69, Cl. 29-578.
Barson, Fred; and Lehman, Herbert S., to International Business Machines Corporation. Semiconductor devices with cup-shaped regions. 3,461,360, 8-12-69, Cl. 317-235.
Barson, Fred; and Mutter, Walter E., to International Business Machines Corporation. Combined transistor and testing structures and fabrication thereof. 3,465,427, 9-9-69, Cl. 29-574.
Barstow, Goidden J., to United States of America, Navy. Electrical testing with color responsive digital address. 3,447,080, 5-27-69, Cl. 324-73.
Barstow, William F., to Tenex Corporation, The. Catalytic system for inert gas generation. 3,464,801, 9-2-69, Cl. 23-288.
Barsyke Limited: *See—*
Dodgson, John R.; and Sharpe, Stanley R., 3,446,518.
Bart, Philip D. Rotating toy simulated aircraft. 3,476,386, 11-4-69, Cl. 272-31.
Barta, Henry R.: *See—*
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R.,3,421,730.
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R.,3,423,711.
Barta, Jiri; Fechtner, Jan; Hanzlicek, Jiri; Verner, Miroslav; and Vesely, Dobromil, to Ceskoslovenska akademie ved. Method of concentration of organic sludges. 3,464,919, 9-2-69, Cl. 210-11.
Bartch, Herbert. Transistorized ignition system. 3,434,463, 3-25-69, Cl. 123-148.
Bartek, Raymond W., to Allegheny Ludlum Steel Corporation. Descaling of alloys by high temperature surface vaporization. 3,467,549, 9-16-69, Cl. 134-4.
Bartel, Richard F., to San Diego Gas & Electric Company. Apparatus for cleaning gas meter surfaces. 3,421,168, 1-14-69, Cl. 15-21.
Bartell, Charles; Milutin, Ivan Cutukovic; Porsche, Jules Downes; and Rolih, Robert John, to Borden, Inc. Pressure-sensitive tape coated with a release agent. 3,475,196, 10-28-69, Cl. 117-68.5
Bartels, Erich, to Firma Rheinmetall G.m.b.H. Wedge breech block for guns with exchangeable ring packings. 3,420,139, 01/0769, Cl. 89-17.
Bartels, Helmut: *See—*
Haldimann, Hans Rudolph; and Bartels, Helmut,3,434,604.
Bartels, Herbert D., to Continental Can Company, Inc. Dispensing container and charging valve therefor. 3,451,592, 6-24-69, Cl. 222-95.
Bartels, Herbert D., to Continental Can Company, Inc. Aerosol container and valve therefor. 3,462,046, 8-19-69, Cl. 222-394.
Bartels, Herbert D., to Continental Can Company, Inc. Notched can body. 3,478,921, 11-18-69, Cl. 220-62.
Bartels, Herbert D., to Continental Can Company, Inc. Aerosol container and valve therefor. 3,482,738, 12-9-69, Cl. 222-95.
Bartels-Keith, James Richard; and Hills, Derek William, to Smith Kline & French Laboratories. Dihydronorthebainone and dihydronororipavinone compounds and corresponding enol lower alkyl ethers. 3,468,891, 9-23-69, Cl. 260-285.
Bartelt Engineering Company, Inc.: *See—*
Ludwig, Wilbur G.; and Zimmer, Richard C., 3,430,414.
Miller, William N., 3,431,703.

Barten, Ernst Heinrich, to Achenbach Sohne G.m.b.H. Reeling-off apparatus for use in connection with one-way rolling mills. 3,441,234, 4r29-69, Cl. 242-80.

Barten, Piet Gerard Joseph, to North American Philips Company, Inc. Color tube with shadow mask apertures and color dots related to permit use in systems having different numbers of scanning lines. 3,439,207, 4-15-69, Cl. 313-92.

Barten, Piet Gerard Joseph, to U.S. Philips Corporation, mesne. Cathode-ray tube for displaying color pictures. 3,486,061, 12-23-69, Cl. 313-92.

Barten, Piet Gerard Joseph; and Schulte, Hans Helmut, to U.S. Philips Corporation, mesne. Parallelogram mounting fixture for shadow mask. 3,487,251, 12-30-69, Cl. 313-85.

Barten, Piet Gerard Joseph: *See—*
Kaashoek, Johannes; Versluis, Johannes Willem; and Barten, Piet Gerard Joseph,3,440,483.

Bartfay, Stephen A., to American Optical Company. Ocular tonometer. 3,470,736, 10-7-69, Cl. 73-80.

Barth, Alfred; Beck, Karl; and Wiedmann, Walter, to Filterwerk Mann & Hummel G.m.b.H., Messrs. Filter for fluids. 3,434,601, 3-25-69, Cl. 210-440.

Barth, Bruce P.; and Hendricks, Edward G., to Union Carbide Corporation. Structural elements comprising adherent thermoplastic polyarylene polyether and an adhered and method for making the same. 3,446,654, 5-27-69, Cl. 117-123.

Barth, Carl. System of movable frets for stringed musical instrument. 3,469,489, 9-30-69, Cl. 84-314.

Barth, Edwin F.; and Ettinger, Morris B., to United States of America, Interior. Process for removing phosphorus from waste water. 3,480,144, 11-25-69, Cl. 210-4.

Barth, George J., Jr.: *See—*
Gordon, Gerome; and Barth, George J., Jr.,3,438,617.

Barth, Jay E.: *See—*
Cotter, Howard E.; and Barth, Jay E.,3,441,224.
Cotter, Howard E.; and Barth, Jay E.,3,441,225.

Barth, John W.: *See—*
Aiello, Salvatore F.; and Barth, John W.,3,448,820.

Barth, Julius O., to Permadlux Company, The. Treated vinyl and polyester and methods and compositions for the production and use thereof. 3,479,198, 11-18-69, Cl. 117-15.

Barth, Manfred Frans, to Kienzle Uhrenfabriken G.m.b.H. Stepping device for tuning fork oscillator. 3,425,210, 2-4-69, Cl. 58-23.

Barthalon, Maurice. Reciprocating electric motor. 3,461,806, 8-19-69, Cl. 103-53.

Barthauer, Gerald L., to Safety Development Corporation. Foam producing materials and method for atmosphere control with high expansion foam. 3,479,285, 11-18-69, Cl. 252-3.

Barthel, Gerhard. Greenhouse air-cooling system. 3,450,194, 6-17-69, Cl. 165-18.

Barthelemy, Pierre: *See—*
Nomine, Gerard; Penasse, Lucien; and Barthelemy, Pierre,3,423,506.

Barthol, Richard P. Psychological training device for a sport. 3,436,076, 4-1-69, Cl. 273-26.

Bartholet, Emil J., to Komline-Sanderson Engineering Corp. Balanced rotary valve. 3,433,265, 3-18-69, Cl. 137-625.18

Bartholomay, Robert P.; Robinson, Wilbur D.; and Farrar, Harold J., to Eastman Kodak Company. Web splicer. 3,440,126, 4-22-69, Cl. 156-505.

Bartholomew, Albert P., Jr., to Electro-Mechanical Instrument Company, Inc., mesne. Electric meter having dual sensitivity provided by plural biasing means. 3,422,353, 1-14-69, Cl. 324-146.

Bartholomew, Earl, to Ethyl Corporation. Engine improvements. 3,447,516, 6-3-69, Cl. 123-97.

Bartik, William J., to Sperry Rand Corporation. Magnetic switch for reading and writing in an NDRO memory. 3,422,409, 1-14-69, Cl. 340-174.

Bartik, William J., to Sperry Rand Corporation. Plated wire memory employing a magnetically saturable shield. 3,422,410, 1-14-69, Cl. 340-174.

Bartik, William J., to Sperry Rand Corporation. Non destructive read out tunnel diode memory element. 3,436,565, 4-1-69, Cl. 307-322.

Bartik, William J., to Sperry Rand Corporation. Magnetic memory device providing creep control. 3,436,739, 4-1-69, Cl. 340-174.

Bartik, William J., to Sperry Rand Corporation. Magnetic frequency memory. 3,487,379, 12-30-69, Cl. 340-174.

Bartik, William J.; Chow, Woo Foung; and Schwartz, Edward N., to Sperry Rand Corporation. Thin film magnetic memory with parametron driver circuits. 3,421,153, 1-7-69, Cl. 340-174.

Bartik, William John: *See—*
Hill, Richard Norman; and Bartik, William John,3,465,165.

Bartl, Herbert: *See—*
Hardt, Dietrich; and Bartl, Herbert,3,454,674.
Resz, Raoul; Bartl, Herbert; Weber, Karl-Arnold; and Boll, Manfred,3,483,076.
Seidel, Bernhard; Mader, Helmut; Danhauser, Justus; and Bartl, Herbert,3,467,523.

Bartleson, Kenneth R. Automatic dispenser for paper towels. 3,436,001, 4-1-69, Cl. 225-100.

Bartlett, Churchill W., to Eaton Yale & Towne, Inc. Stress peening steel articles. 3,438,229, 4-15-69, Cl. 72-53.

Bartlett, David S., Jr., to FMC Corporation. Apparatus for separating fruit from dirt clods and debris. 3,473,658, 10-21-69, Cl. 209-108.

Bartlett, Edward E. Lamp chimney and assembly. 3,456,105, 7-15-69, Cl. 240-98.

Bartlett, Edwin S.: *See—*
Bradley, Elihu F.; Bartlett, Edwin S.; Ogden, Horace R.; and Jaffee, Robert I.,3,442,720.

Bartlett, Floyd M. Method and apparatus for mixing drilling fluid. 3,473,787, 10-21-69, Cl. 259-95.

Bartlett, George F.; and Snaidman, Samuel, to Standard Railway Fusee Corp. Electrically operated igniter for smudge pots. 3,445,204, 5-20-69, Cl. 44-36.

Bartlett, Homer E.; and Moseley, Roland E., to Radiation Incorporated. Reflector antennas. 3,430,244, 2-25-69, Cl. 343-755.

Bartlett, James S., to Scholz, Frank, X-Ray Corporation. Spot film device having rectangular cassette carriage movable from front to rear. 3,473,025, 10-14-69, Cl. 250-66.

Bartlett, Jeffrey H.: *See—*
Tunkel, Norman; Hollyday, William C., Jr.; Bartlett, Jeffrey H.; and Gleason, Anthony H.,3,449,251.

Bartlett, Paul D., to PPG Industries, Inc. Process for the hydrolysis of 7,7-dihalobicyclo- 3.2.0-2-heptene-6-ones to tropolones. 3,448,155, 6-3-69, Cl. 260-586.

Bartlett, Peter G., to Bliss, E. W., Company. Pedestrain detection system. 3,462,692, 8-19-69, Cl. 328-5.

Bartlett, Peter G., to Bliss, E. W., Company. Ceramic ferroelectric memory device. 3,462,746, 8-19-69, Cl. 340-173.2

Bartlett, Peter G.; and Meschi, Joseph E., to Bliss, E. W., Company. Monostable controlled saturable core blocking oscillator circuit. 3,466,468, 9-9-69, Cl. 307-275.

Bartlett, Peter G.; and Meschi, Joseph E., to Bliss, E. W., Company. Memory restore circuits for bistable multivibrators. 3,466,618, 9-9-69, Cl. 340-173.2

Bartlett, Peter Greenough: *See—*
Clark, Larry Keith; and Bartlett, Peter Greenough,3,466,599.

Bartlett, Philip D., to Polaroid Corporation. Instructional camera. 3,447,436, 6-3-69, Cl. 95-13.

Bartlett, Philip D.; and Friedman, Melvin, to Polaroid Corporation. Single apparatus with means to perform a back- reflection or transmission diffraction method of X_s-ray photography. 3,443,091, 5-6-69, Cl. 250-51.5

Bartlett, Philip Lee, to Du Pont de Nemours, E. I., and Company. Perfluoroalkyl ether bis(hydroxyalkyl) amides. 3,472,894, 10-14-69, Cl. 260-561.

Bartlett, Philip Lee; and Biswell, Charles Bedford, du Pont de Nemours, E. I., and Company. Alkanol amine salts of phosphates. 3,428,713, 2-18-69, Cl. 260-924.

Bartlett, Richard F., to Itek Corporation. Photo-optical data storage systems. 3,452,331, 6-24-69, Cl. 340-173.

Bartlett, Ronald K.; and O'Sullivan, Thomas M.,to O'Sullivan Industries, Inc. Adjustable TV table. 3,479,973, 11-25-69, Cl. 108-141.

Bartlett, Ronald Leonard: *See—*
Chapman, Edwin Albert; Bartlett, Ronald Leonard; and Phelps, Brian,3,466,417.

Bartlett, William F., to Stromberg-Carlson Corporation. Code call facility for electronic telephone exchange. 3,459,896, 8-5-69, Cl. 179-15.

Bartlett, William F.; and Bryzinski, Thaddeus F., to Stromberg-Carlson Corporation. Data searching and sorting apparatus. 3,451,045, 6-17-69, Cl. 340-172.5

Bartlett-Snow: *See—*
Adams, Otis J., 3,462,160.

Bartletti, John E., 1/2 to Risdon, Glenn R. Ice-fishing rig. 3,423,867, 1-28-69, Cl. 43-17.

Bartley, Erle E.; and Scott, George C., said Bartley assor. to Kansas State University Research Foundation, Method and preparations for the prevention and treatment of bloat in ruminants. 3,465,083, 9-2-69, Cl. 424-342.

Bartley, George Wells, to Underground Mining Machinery Limited. Track braking system. 3,444,964, 5-20-69, Cl. 188-39.

Bartlo, John S.: *See—*
Provost, Richard H.; Bartlo, John S.; and Hoppe, William,3,429,416.

Bartnik, John C.; and Moss, Ellsworth R., to Sylvania Electric Products Inc. Shunt feed for increasing amplifier output power. 3,434,070, 3-18-69, Cl. 330-31.

Barto, Lawrence B. Pipeline shutoff device. 3,483,895, 12-16-69, Cl. 138-97.

Bartok, William; and Shabaker, Robert H., to Esso Research and Engineering Company. Process for lowering the pour point of a middle distillate. 3,431,194, 3-4-69, Cl. 208-89.

Barton, Bernard Charles; Nudenberg, Walter; and Delaney, Edward Axel, to Texas-U.S. Chemical Company. Butadiene-isobutylene copolymers. 3,466,268, 9-9-69, Cl. 260-85.3

Barton, David M.: *See—*
Myers, Ronald G.; Reid, Samuel C.; and Barton, David M.,3,436,756.

Barton, David W., to Ford Motor Company. Elastomeric rubber impact energy absorbing bumper. 3,432,200, 3-11-69, Cl. 293-71.
Barton, David W., to Ford Motor Company. Dual automotive brake system. 3,477,549, 11-11-69, Cl. 188-152.
Barton, David W.; and Russell, Richard G., to Ford Motor Company. Redundant support for brake pedal. 3,451,288, 6-24-69, Cl. 74-512.
Barton, Derek Harold Richard, to Research Institute for Medicine and Chemistry, Inc. Pro-oestrogenic steroids non-aromatic in ring A. 3,464,979, 9-2-69, Cl. 260-239.55
Barton, Derek Harold Richard, to Research Institute for Medicine and Chemistry, Inc. Process for the preparation of debrominated analogues of bromo-steroids of the pregnane, androstane and cholestane series. 3,480,622, 11-25-69, Cl. 260-239.55
Barton, Donald Moore; and Robinson, Colin, to De La Rue Frigistor Limited. Temperature reference apparatus. 3,435,622, 4-1-69, Cl. 62-3.
Barton, Donald Moore; and Robinson, Colin, to De La Rue Frigistor Limited. Microtome apparatus. 3,456,538, 7-22-69, Cl. 83-171.
Barton, George B., to Merx Optical Company Limited. Method of assembling spectacle frames. 3,440,702, 4-29-69, Cl. 29-20.
Barton, George C.; and Reader, Philip, to USM Corporation. Adhesive applying device for shoe lasting machines. 3,481,308, 12-2-69, Cl. 118-317.
Barton, Henry O., to Packard Instrument Company, Inc., mesne. Data organization system for multiparameter analyzers. 3,439,342, 4-15-69, Cl. 340-172.5
Barton, Howard E.: *See—*
Kwasniewski, Edward D.; and Barton, Howard E.,3,420,736.
Barton, Hugh Perry, to Barton, R. P., & Company. Trash separator. 3,463,312, 8-26-69, Cl. 209-103.
Barton, James, to Ionic International, Inc. Forced air curtain wall for hoist and auxiliary equipment. 3,444,802, 5-20-69, Cl. 98-115.
Barton, Jerry M., to Du Pont de Nemours, E. I., and Company. Preparation of tetramethylethyl leads. 3,478,072, 11-11-69, Cl. 260-437.
Barton, John R.: *See—*
Pickup, Clive Parnell; and Barton, John R.,3,461,372.
Barton, Oliver A.; and Eckardt, Carl R., to Allied Chemical Corporation. Chlorinated polyethylene coated fabrics and method of making the same. 3,458,350, 7-29-69, Cl. 117-161.
Barton, Oliver A.; Griffin, William D.; Lund, Richard B.; Vitrone, John; and Oser, Zalik, to Allied Chemical Corporation. Trisphenols and epoxide resins prepared therefrom. 3,483,164, 12-9-69, Cl. 260-47.
Barton, Oliver A.; and Littell, Walter W., to Allied Chemical Corporation. Epoxide resin from epichlorohydrin and a mixture of bisphenols. 3,422,063, 1-14-69, Cl. 260-47.
Barton, Oliver A.; and Pusztai, Tibor G., to Allied Chemical Corporation. Novel phenolic resins employing bis(p-hydroxycomyl benzene). 3,422,067, 1-14-69, Cl. 260-51.
Barton, Oliver A.; and Pusztai, Tibor G., to Allied Chemical Corporation. Adhesive blends comprising polyamide and chlorinated ethylene-vinyl acetate copolymer. 3,464,940, 9-2-69, Cl. 260-23.
Barton, R. P., & Company: *See—*
Barton, Hugh Perry, 3,463,312.
Barton, Richard E. Dual drive mechanism. 3,450,208, 6-17-69, Cl. 170-135.27
Barton, Richard Russell, to Miles Laboratories, Inc. Process for purifying amyloglucosidase. 3,483,090, 12-9-69, Cl. 195-66.
Barton, Richard: *See—*
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,444,525.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,487,373.
Barton, Richard; Hittel, Lorenz A.; Rakoczi, Laszlo L.; and Wiener, Jerome B., to General Electric Company. Data processing apparatus providing contiguous addressing for non-contiguous storage. 3,469,241, 9-23-69, Cl. 340-172.5
Barton, Robert S.: *See—*
Macon, Charles E.; Barton, Robert S.; Quantz, Paul A.; and Shimabukuro, George T.,3,487,375.
Barton, Robert S.; Creech, Bobby A.; Dent, Benjamin A.; Hauck, Erwin A.; and McKeeman, William M., to Burroughs Corporation. Stack mechanism having multiple display registers. 3,461,434, 8-12-69, Cl. 340-172.5
Barton, Robert W.; and Brockman, Arthur M. Golf ball cleaning device. 3,453,675, 7-8-69, Cl. 15-104.92
Barton, Ronald Sidney Charles: *See—*
Molins, Desmond Walter; McCombie, Alan Keith; and Barton, Ronald Sidney Charles,3,433,347.
Barton, Stanley: *See—*
Megison, Donald R.; and Barton, Stanley,3,430,630.
Barton, Walter S.: *See—*
Vaughan, George W.; Barton, Walter S.; and Simpson, Mott E.,3,467,275.
Bartos, Donald M.; and Price, Raymond J., to Dow Corning Corporation. Electrical induction apparatus construction. 3,440,587, 4-22-69, Cl. 336-206.
Bartos, Josef, to Abegg and Reinhold. Spinner device for turning well pipe or the like. 3,461,974, 8-19-69, Cl. 173-3.
Bartosek, Vladimir; and Hanousek, Alois, to Elitex, Zavody textilniho strojirenstvi generalnie reditelstvi. Nozzle holder. 3,454,248, 7-8-69, Cl. 248-75.
Bartosz, Frank J.: *See—*
Jacobsen, Sigurd S.; Bartosz, Frank J.; and Laidig, Manfred R.,3,420,197.
Bartoszek, Boleslaw: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Bartoszewicz, Jerzy Jozef, to Lever Brothers Company. N-alkyl-N-carbamylalkyl isopicramic acids. 3,420,883, 1-7-69, Cl. 260-566.
Bartrug, Norman G.: *See—*
Kolek, Robert L.; and Bartrug, Norman G.,3,446,003.
Bartsch, James R., to PCR Patent Development Corporation. Molding process and composition. 3,438,933, 4-15-69, Cl. 260-41.5
Bartsch, Raymond C.: *See—*
Lerman, Frank; and Bartsch, Raymond C.,3,449,291.
Lerman, Frank; and Bartsch, Raymond C.,3,472,801.
Bartu, Franz, to Maerz Ofenbau, AG. Process of melting scrap or another solid metallic charge. 3,447,920, 6-3-69, Cl. 75-43.
Bartulin, Juan: *See—*
Taylor, Edward C.; and Bartulin, Juan,3,476,756.
Bartusek, Robert J.; and Czerna, Aladar L., to Bell & Howell Company. Thermal exposure device. 3,475,589, 10-28-69, Cl. 219-216.
Bartz, Arnold M.: *See—*
Herscher, Leonard W.; and Bartz, Arnold M.,3,472,253.
Bartz, August L.: *See—*
Ashworth, James E.; and Bartz, August L.,3,460,372.
Bartz, Maurice R., to International Business Machines Corporation. Video digitizing system. 3,429,993, 2-25-69, Cl. 178-7.1
Bartz, Maurice R., to International Business Machines Corporation. Threshold system. 3,479,642, 11-18-69, Cl. 340-146.3
Baruch, Hans, to Warner-Lambert Pharmaceutical Company. Sample transfer apparatus. 3,475,130, 10-28-69, Cl. 23-253.
Baruffa, Olindo: *See—*
Fresard, Marcel; and Baruffa, Olindo,3,435,788.
Barus, Carl: *See—*
Kent, Robert L.; Badessa, Rosario S.; Barus, Carl; Dunn, Joseph M.; Glaser, Raymond Arthur; and Johnson, Leonard B.,3,477,666.
Barusch, Maurice R.: *See—*
Lindstrom, Eddie G.; and Barusch, Maurice R.,3,468,639.
Barusch, Maurice; and Kautsky, George J., to Chevron Research Company. Gasoline compositions. 3,468,640, 9-23-69, Cl. 44-75.
Barwell Engineering Ltd.: *See—*
Barwell, John Harold; and Lanham, Donald James, 3,445,889.
Barwell, John Harold; and Lanham, Donald James, to Barwell Engineering Ltd. Extruding methods and apparatus. 3,445,889, 5-27-69, Cl. 18-12.
Barwig, Hans A.; and Heidrich, Gunther R., to Alexander Wilhelm Stoeckicht. Planetary gearing with a supporting device for the outer center gear. 3,434,374, 3-25-69, Cl. 74-801.
Barz, Alfred, to Leybold Holding Aktiengesellschaft. Vacuum gauge apparatus. 3,425,281, 2-4-69, Cl. 73-398.
Barzakov, Petko Ivanov: *See—*
Slavov, Ivan Atanassov; Daskalov, Kiril Dimitrov; Ganev, Petar Levtchev; Mandjakov, Stefan Petrov; and Barzakov, Petko Ivanov,3,435,669.
Barzda, Justin J.: *See—*
Hollrock, Richard H.; and Barzda, Justin J.,3,428,271.
BAS Equipment and Manufacturing Co., Inc.: *See—*
Handy, Byron F., Jr.; Handy, Allen R.; and Handy, Gregory S., 3,427,938.
Basalla, Alfred; and Ungemach, Hans, to Kaiser, Willy. Forms for concrete rib ceilings. 3,463,441, 8-26-69, Cl. 249-28.
Basche, Malcolm, to United Aircraft Corporation. Nickel-mercury amalgam seal. 3,463,119, 8-26-69, Cl. 118-49.5
Basche, Malcolm, to Union Carbide Corporation, mesne. Pyrolytic graphite alloys and method of making the same. 3,464,843, 9-2-69, Cl. 117-46.
Basche, Malcolm; Fanti, Roy; and Galasso, Salvatore F., to United Aircraft Corporation. Method of fabricating fiber-reinforced articles. 3,443,301, 5-13-69, Cl. 29-419.
Bascobert, Rene F.: *See—*
Vitello, John P.; and Bascobert, Rene F.,3,437,117.
Bascom, Hollis H.; Greci, John J.; and Jenkins, Richard G., to Orcon Corporation. Apparatus for making non-woven fabric. 3,463,693, 8-26-69, Cl. 156-361.
Basdekas, Demetrios L., to United States of America, Atomic Energy Commission. Method for measuring fissionable material content of fuels. 3,436,538, 4-1-69, Cl. 250-83.1

Bash, Charles W.; and Lane, George A., to Dow Chemical Company, The. Flare composition containing alkali metal nitrate magnesium, and a copolymer reaction product binder. 3,432,370, 3-11-69, Cl. 149-19.

Bashaw, Robert N.; and Harper, Billy G., to Dow Chemical Company, The. Aqueous foam containing a water-swellable polymer flame proofing composition and process of making same. 3,480,546, 11-25-69, Cl. 252-3.

Bashenow, Alexander; and Volpatti, Ramon, to FMC Corporation. Sealing and aligning system for a centrifugal pump. 3,469,529, 9-30-69, Cl. 103-111.

Bashirov, Ismagil Gareevich: *See—*
Tobolov, Petr Nikitich; Kriger, Jury Arkadievich; Litvinov, Ivan Petrovich; Bashirov, Ismagil Gareevich; and Fildshtein, Mikhail Viktorovich,3,451,659.

Bashor, James R., to United States Drill Head Company. Chip breaker. 3,431,799, 3-11-69, Cl. 77-32.3

Basic Incorporated: *See—*
Blau, Robert E.; and Stone, George E., 3,429,463.
Montgomery, Daniel, 3,468,683.
Ruiz, Joseph J., 3,472,422.
Russell, Robert E.; and McVey, Eugene S., 3,447,061.
Spachman, James J., 3,480,454.

Basic Products Development Company, The: *See—*
Turner, Lloyd S., 3,450,290.
Turner, Lloyd S., 3,469,725.
Turner, Lloyd S., 3,472,410.
Turner, Lloyd S., 3,472,411.
Turner, Lloyd S., 3,484,016.

Basic Vegetable Products, Inc.: *See—*
Bacrwald, Francis K., 3,445,247.

Basil, Richard W.; and Benning, Frederic N., to Textron Electronics, Inc. Aconic collector. 3,449,561, 6-10-69, Cl. 240-103.

Basila, Michael R.: *See—*
Kehl, William L.; Rennard, Raymond J., Jr.; and Basila, Michael R.,3,450,789.

Basile, Norman K.; and Bridges, Thomas F., to McMullen, John J. Arrangement for maintaining alignment of cold tanks within a ship or the like. 3,428,205, 2-18-69, Cl. 220-15.

Basile, Norman K.: *See—*
Ycarwood, Donald R.; Basile, Norman K.; and Bridges, Thomas F.,3,434,492.

Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Jakov Benediktovich. Air separation employing separated nitrogen as heat exchange fluid in liquid oxygen pump jacket. 3,447,332, 6-3-69, Cl. 62-13.

Basiulis, Algerd, to United States of America, Atomic Energy Commission, mesne. In-line, high temperature, high vacuum closure. 3,428,773, 2-18-69, Cl. 219-50.

Baskerville, Ralph J.: *See—*
Baird, Leslie L.; and Baskerville, Ralph J.,3,433,915.

Baskett, John R., to Bourns, Inc. Resistive adjunct device and component. 3,448,427, 6-3-69, Cl. 338-162.

Baskin, Herbert B.; Evans, Paul F.; and Rittenhouse, Larry E., to International Business Machines Corporation. Wheel positioning mechanism using a closed coding ring. 3,461,449, 8-12-69, Cl. 340-347.

Baskwell, John Alfred, to Pirelli General Cable Works Limited. Sheathing of electric cables. 3,444,016, 5-13-69, Cl. 156-48.

Basler, Ernst; and Frehner, Hans. Underground shelter. 3,464,374, 9-2-69, Cl. 109-1.

Basler Stueckfaerberei A.G.: *See—*
Guldenfels, Willy; and Hoenger, Rudolf, 3,475,532.

Basler, Wayne G.; Coburn, Kenneth E.; Greenler, Robert J.; and Thompson, Robert J., to Ford Motor Company. Float glass chamber with separated temperature equalizing zones. 3,481,728, 12-2-69, Cl. 65-182.

Basmajian, Diran C.: *See—*
Zartarian, Robert, 3,445,150.

Basnett, James Thomas, to G. Q. Parachute Company Limited. Multiple compartment parachute assembly. 3,464,653, 9-2-69, Cl. 244-148.

Baso, Loris. Method for the manufacture of buckle-type ski boots. 3,483,638, 12-16-69, Cl. 36-2.5

Bason & Sons Limited: *See—*
Bason, James M., 3,480,161.

Bason, George S., Jr.: *See—*
Love, John D.; and Bason, George S., Jr.,3,453,018.

Bason, James M., to Bason & Sons Limited. Mechanical handling apparatus. 3,480,161, 11-25-69, Cl. 214-6.

Bass, Jack V. Clothing alarm means. 3,460,123, 8-5-69, Cl. 340-235.

Bass, John C., to Gulf General Atomic Incorporated, mesne. Hydraulic reactor control drum drive. 3,429,203, 2-25-69, Cl. 74-822.

Bass, Karl: *See—*
Bass, Peter; and Bass, Karl,3,486,596.

Bass, Patrick: *See—*
Gabriel, Ralph Parton; and Bass, Patrick,3,459,882.

Bass, Patrick, to R. & R. Research Limited. Television system with modified sync signals and auxiliary timing information. 3,485,941, 12-23-69, Cl. 178-5.1

Bass, Peter; and Bass, Karl. One-way clutch with resilient bushing. 3,486,596, 12-30-69, Cl. 192-45.1

Bass, Raymond H., to Ashdee Corp. Coating equipment accessory. 3,434,457, 3-25-69, Cl. 118-301.

Bassani, Ermanno. Electricity distributing lines. 3,428,799, 2-18-69, Cl. 240-9.

Bassani, Ermanno. Electronic wiring devices for electric plants. 3,432,727, 3-11-69, Cl. 317-99.

Bassani, Ermanno. Electric wiring device comprising automatic switch and socket. 3,436,602, 4-1-69, Cl. 317-99.

Bassani S.p.A.: *See—*
Paganelli, Mario, 3,437,417.
Paganelli, Mario, 3,437,881.
Paganelli, Mario, 3,465,280.

Basse, Tage Stenberg, to Danfoss A/S. Temperature-responsive bimetal tripping device. 3,470,516, 9-30-69, Cl. 337-335.

Basse, Tage Stenberg, to Danfoss ved ing. M. Glausen. Thermic flash-over current- and phase-interrupting protective relay. 3,475,709, 10-28-69, Cl. 337-44.

Basseches, Mark T.: *See—*
French, Walter K.; and Taylor, Richard, 3,444,914.

Basseches, Mark T., to Ilco Corporation. Pickproof lock. 3,455,130, 7-15-69, Cl. 70-421.

Basseches, Mark T., to Creative Systems, Inc. Magnetic record playback device with manually operated head-lifting, retractor assembly. 3,472,970, 10-14-69, Cl. 179-100.2

Bassen, Howard; and Jantz, Ronald K., to United States of America, Army. Quarter wave-length ring antenna. 3,475,755, 10-28-69, Cl. 343-705.

Basset, James. Apparatus for producing very high pressures. 3,457,593, 7-29-69, Cl. 18-16.

Bassett, Alton H., to Johnson & Johnson. Nonwoven fabric with machine direction elasticity. 3,468,748, 9-23-69, Cl. 161-122.

Bassett, Alton H.; and Plummer, Charles H., to Johnson & Johnson. Process for making a nonwoven fabric having substantially uniform ripples. 3,485,699, 12-23-69, Cl. 156-290.

Bassett, Arthur T., Jr.; Cook, Cleo E.; and Schuler, Thomas C., to General Motors Corporation. Servo control system for automotive vehicles. 3,473,733, 10-21-69, Cl. 236-13.

Bassett, John A., Jr., to Sola Basic Industries, Inc. Buck/boost voltage regulator employing shunt magnet amplifier. 3,469,179, 9-23-69, Cl. 323-45.

Bassett, Kirk Walter: *See—*
Ford, Frank Peter; and Bassett, Kirk Walter,3,460,775.

Bassett, Robert E.: *See—*
Maloney, Gerald C.; and Bassett, Robert E.,3,452,949.

Bassett, William W., to Honeywell Inc. Fluid regulating apparatus. 3,426,788, 2-11-69, Cl. 137-270.

Bassford, Thomas H.: *See—*
Eiselstein, Herbert L.; and Bassford, Thomas H.,3,459,539.

Bassing, Friedrich Wilhelm; and Hofmann, Gottfried Gerhard Wilhelm. Loom crankshaft arrangement. 3,441,058, 4-29-69, Cl. 139-1.

Bassiri, Taghi G.: *See—*
Litt, Morton H.; Levy, Alan J.; and Bassiri, Taghi G.,3,483,141.

Bassist, Rudolph G., 1/2 to Travis Mills Corporation. Knitting machine employing compensating motion for knitting effect thread. 3,464,236, 9-2-69, Cl. 66-86.

Basso, Michael J., 35% to Scofield, John D. Self-adjusting closure actuated switch assembly. 3,432,634, 3-11-69, Cl. 200-159.

Basso, Michael J. Combination switch-lamp assembly. 3,466,408, 9-9-69, Cl. 200-51.

Basso, Yves: *See—*
Valentin, Francois P.; Basso, Yves; and Rongier, Charles P.,3,482,039.

Bassoff, Arthur B., to Lear Siegler, Inc., mesne. Lead mechanism. 3,429,195, 2-25-69, Cl. 74-422.

Bassot, Jacques; and Monpetit, Louis, to Societe des Procedes Modernes d'Injection Sopromi. Electronic control system for fuel injection systems. 3,433,207, 3-18-69, Cl. 123-119.

Bassot, Jacques; and Monpetit, Louis, to Societe des Procedes Modernes d'Injection Sopromi. Device for the control of fuel injection. 3,435,809, 4-1-69, Cl. 123-119.

Bassot, Jacques; and Monpetit, Louis, to Societe des Procedes Modernes d'Injection Sopromi. High-speed fuel injection system. 3,456,628, 7-22-69, Cl. 123-32.

Bassot, Jacques; and Monpetit, Louis, to Societe des Procedes Modernes d'Injection Sopromi Societe Anonyme, de Nationalite Francaise. Electronic control circuit for electro-hydraulic transducers. 3,465,730, 9-9-69, Cl. 123-32.

Bassot, Jacques; and Monpetit, Louis, to Societe des Procedes Modernes d'Injection Sopromi Societe Anonyme, de Nationalite Francaise. Electronic control for electromagnetic injection systems. 3,465,731, 9-9-69, Cl. 123-32.

Baste, Adolph C. A.: *See—*
Mulholland, Lawrence K.; Kersteter, Ammon W.; and Baste, Adolph C. A.,3,448,711.

Bastenbeck, Edwin W.; and Hajdu, Juan, to Enthone, Incorporated. Inhibiting stardusting in electroless copper plating. 3,472,664, 10-14-69, Cl. 106-1.
Bastiaanssen, Johannes Wilhelmus: *See*—
Van Langen, Johannes Otto Michael; and Bastiaanssen, Johannes Wilhelmus,3,452,430.
Bastian, Donald G., to Friden, Inc. Aggregate motion drive mechanism. 3,452,623, 7-1-69, Cl. 74-81.
Bastian, James W. Painting system. 3,457,017, 7-22-69, Cl. 401-146.
Bastian, Jean-Michael: *See*—
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael,3,466,290.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael,3,466,291.
Bastian, Jean-Michel: *See*—
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,464,983.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,465,003.
Bastian-Blessing Co., The: *See*—
Wilson, Jesse Allen, 3,438,392.
Bastide, Paul. Cranes, derricks and like cargo handling installations of ships. 3,438,516, 4-15-69, Cl. 214-15.
Bastien, Roy C.; and Scheuerman, Richard J., to Perkin-Elmer Corporation, The. Multilayer antireflection coating for low index materials. 3,463,574, 8-26-69, Cl. 350-164.
Bastone, Andrew L., to Owens-Corning Fiberglas Corporation. Method of forming large tank structures of filament windings. 3,483,054, 12-9-69, Cl. 156-161.
Bastos, Jose De Aruajo; and Bastos, Jose Roberto Ribeiro. Mattresses. 3,467,972, 9-23-69, Cl. 5-91.
Bastos, Jose Roberto Ribeiro: *See*—
Bastos, Jose De Aruajo; and Bastos, Jose Roberto Ribeiro,3,467,972.
Bastow, Frank, to Dowty Seals Limited. Seals. 3,473,814, 10-21-69, Cl. 277-188.
Bata Shoe Company, Inc.: *See*—
Kotek, Alexander, 3,425,095.
Tusa, John; and Janssen, Johannes Gerardus, 3,441,643.
Bataille, Rene Eugene. Parquet floor coverings. 3,440,787, 4-29-69, Cl. 52-390.
Batchelar, Raymond Luscombe: *See*—
La Croce, Leonard Thomas; and Batchelar, Raymond Luscombe,3,430,802.
Batchelder, Charles E.; and Rubico, Jerome A., to Batchelder-Rubico, Inc. Stitched adhesive tape releasable attaching method. 3,474,478, 10-28-69, Cl. 12-142.
Batchelder, Charles F.; and Rubico, Jerome A., to Batchelder-Rubico, Inc. Flanged adhesive roller wafer. 3,443,288, 5-13-69, Cl. 24-67.
Batchelder, David G.: *See*—
Porterfield, Jay G.; and Batchelder, David G.,3,442,262.
Batchelder-Rubico, Inc.: *See*—
Batchelder, Charles E.; and Rubico, Jerome A., 3,474,478.
Batchelder, Charles F.; and Rubico, Jerome A., 3,443,288.
Snow, Henry R., 3,423,854.
Batcheller, Kent J. Flare holder. 3,485,469, 12-23-69, Cl. 248-126.
Batchelor, Dewitt L. Fuel indicating device. 3,434,134, 3-18-69, Cl. 340-244.
Batchelor, Gordon S., to Allied Chemical Corporation. Method for controlling the growth of potato plant organisms. 3,443,928, 5-13-69, Cl. 71-123.
Batchelor, Gordon S.; and Hawkins, Edwin F., to Allied Chemical Corporation. Process for the control of boll weevil and boll worm with TDE and malathion. 3,480,710, 11-25-69, Cl. 424-213.
Batchelor, Gordon S.; Kishi, Kiyoshi; Iwauchi, Shigeki; and Saito, Isamu, to Mitsuo Iwauchi Tokyo, and Masako Shimizu. Method of manufacturing fiber metal. 3,443,929, 5-13-69, Cl. 75-0.5
Batchelor, John H., to Roto Rico Co., Inc. Fruit transfer mechanism for citrus fruit juicers and the like. 3,450,248, 6-17-69, Cl. 198-33.
Batchelor Michael; and Paine, Donald William Harley, to Electric & Musical Industries Limited. Selective freuency band compression for modulated groove sound recording. 3,440,361, 4-22-69, Cl. 179-100.4
Batchelor, Robert B.: *See*—
Terry, Sydney L.; and Batchelor, Robert B.,3,430,979.
Batcher, Kenneth E., to Goodyear Aerospace Corporation. Means for merging data. 3,428,946, 2-18-69, Cl. 340-146.2
Batdorf, Robert L.; and Lee, Charles A., to Bell Telephone Laboratories, Incorporated. Semiconductor infrared-to-visible light image converter. 3,466,441, 9-9-69, Cl. 250-83.3
Bate, Geoffrey: *See*—
Speliotis, Dennis E.; Morrison, John R.; Alstad, John K.; and Bate, Geoffrey,3,453,646.
Bate, Geoffrey; Judge, John S.; Morrison, John R.; and Speliotis, Denis E., to International Business Machines Corporation. Wear resistant magnetic recording member. 3,460,968, 8-12-69, Cl. 117-62.
Bate, Lamont C.; Dyer, Frank F.; and Thacker, Louis H., to United States of America, Atomic Energy Commission. Radiation detector and recorder. 3,431,414, 3-4-69, Cl. 250-71.5
Bateman, Glenn: *See*—
Peek, William H.; and Bateman, Glenn,3,475,682.
Bateman , Lawrence Giles, to Delomere & Williams Company, Limited. Bag making machine. 3,473,294, 10-21-69, Cl. 53-187.
Bateman, Robert F.: *See*—
Swett, James B.; Bateman, Robert F.; and Brown, Thomas E.,3,484,035.
Bateman, Ross; and Ahlgren, James D., to Page Communications Engineers, Inc. Communication transponder technique. 3,487,310, 12-30-69, Cl. 325-5.
Bateman, Thomas A., Sr. Electric radiant heating panel. 3,445,628, 5-20-69, Cl. 219-345.
Bates, Bobby L.: *See*—
Bates, Wesley V.; and Bates, Bobby L.,3,474,817.
Bates, Bradford: *See*—
Byland, Henry L.; and Bates, Bradford,3,445,962.
Bates, Clayton W., Jr.; and Bell, Ronald L., to Varian Associates. X-ray image intensifier tube having a non- specular backing for the scintillator layer. 3,473,066, 10-14-69, Cl. 313-101.
Bates, David L.: *See*—
Berardinelli, Frank M.; and Bates, David L.,3,455,867.
Bates, David P., to Westhem Corporation Limited. Method of biasing pipe insulation during installation. 3,453,718, 7-8-69, Cl. 29-432.
Bates, Donald L., to Hamilton Cosco, Inc. Footrest mounting. 3,458,234, 7-29-69, Cl. 297-437.
Bates, Donald W.: *See*—
Lotti; Louis B.; and Bates, Donald W.,3,438,247.
Bates, James John, to National Research Development Corporation. Dynamo-electric machine including commutators fed from electronic discharge devices. 3,437,898, 4-8-69, Cl. 318-138.
Bates, James John; and Sridhar, Tiruchendurai Viswanathan, to National Research Development Corporation. Dynamo electric machine. 3,453,513, 7-1-69, Cl. 318-138.
Bates, James L. Auto loop drum. 3,421,396, 1-14-69, Cl. 83-451.
Bates, John K., Jr., to HRB-Singer, Inc. System for determining the transfer function of an electrical apparatus including signal amplitude to pulse width conversion means. 3,483,467, 12-9-69, Cl. 324-57.
Bates, Leon H. Automatic tile forming machine. 3,430,309, 3-4-69, Cl. 25-43.
Bates, Leonard E., to Reilly, John E. Rocket projectile. 3,433,437, 3-18-69, Cl. 244-3.23
Bates, Leonard E., to Reilly, Johne E. Rocket launcher. 3,444,778, 5-20-69, Cl. 89-1.804
Bates, Marcus L. Moving fluid coupling apparatus. 3,473,564, 10-21-69, Cl. 137-580.
Bates, Martin R.; Prast, Johannes W.; and Scott, William V., to Sierra Research Corporation. Hierarchy clock synchronization. 3,440,652, 4-22-69, Cl. 343-7.5
Bates, Mary Jo Ann. Dispenser unit. 3,473,701, 10-21-69, Cl. 222-189.
Bates, Thomas R., to Eastman Kodak Company. Planographic mandrels. 3,432,299, 3-11-69, Cl. 96-36.
Bates, Wesley V.; and Bates, Bobby L., to Jacketing Specialty. Continuous chemical additive dispenser for swimming pool systems and the like. 3,474,817, 10-28-69, Cl. 137-268.
Bates, William W., Jr.: *See*—
Keith, Charles H., II; Norman, Vello; and Bates, William W., Jr.,3,460,543.
Bateson, Robert N., to General Mills Inc. Variable speed feeder control. 3,430,751, 3-4-69, Cl. 198-37.
Bateson, Robert N., to General Mills, Inc. Pressure measuring apparatus. 3,455,167, 7-15-69, Cl. 73-419.
Bateson, Sydney, to PPG Industries, Inc. Stress inspection apparatus for transparent sheet material. 3,446,977, 5-27-69, Cl. 250-219.
Batezell, Alfred P.: *See*—
Grandy, Andrew J.; Spinelli, Angelo S.; De Mesquita, Seymour; and Batezell, Alfred P.,3,465,463.
Bath, Cyril, Company, The: *See*—
Bath, Cyril John, 3,459,025.
Bath, Cyril J.; and Leonard, John H., to Cyril Bath Company, The. Stretch wrapping fixture and combination thereof with drawing dies and press. 3,426,570, 2-11-69, Cl. 72-296.
Bath, Cyril John, to Bath, Cyril, Company, The. Stretching fixture with quadrilateral linkage control of stretch head movements. 3,459,025, 8-5-69, Cl. 72-296.
Bath, Hugh Henry Anthony, to Edwards High Vacuum International Limited. Transistorised oscillators. 3,427,568, 2-11-69, Cl. 331-116.
Bathellier, Andre, to Commissariat a l'Energie Atomique. Trilaurylamine extraction of plutonium with precipitation in oxalic acid. 3,476,787, 11-4-69, Cl. 260-429.1
Bathellier, Louis; and Cheesman, Harry, to Compagnie de Saint-Gobain. Article handling machine. 3,431,698, 3-11-69, Cl. 53-61.
Bathelt, Robert Richard; and Panis, Constantius Johannes Waltherus, to North American Philips Company, Inc. Color television display tube with ferromagnetic screening member. 3,422,220, 1-14-69, Cl. 178-7.82

Bathory, Bela Istvan: *See—*
Stubbs, Dennis; Wilson, William Gordon; and Bathory, Bela Istvan,3,476,276.
Batista, Jose Hernandez. Shoehorn. 3,436,000, 4-1-69, Cl. 223-118.
Batistelli, Nello. Tool for cleaning walls or the like. 3,473,700, 10-21-69, Cl. 222-174.
Batley-Janss Enterprises: *See—*
Eaves, Raymond O., 3,428,196.
Batliner, Elmar: *See—*
Rangger, Herbert; Seghezzi, Hans-Dieter; and Batliner, Elmar,3,472,440.
Batlle, Jorge Ferrer: *See—*
Salat, Carlos Ferrer; Batlle, Jorge Ferrer; and Riera, Juan Colome,3,459,800.
Batlles, Jorge Ferrer: *See—*
Salat, Carlos Ferrer; Batlles, Jorge Ferrer; and Riera, Juan Colome,3,429,869.
Batman, George A.: *See—*
Pingree, Samuel J.; and Batman, George A.,3,435,641.
Batog, Stephen L., to Case, J. I., Company. Reel control mechanism. 3,442,070, 5-6-69, Cl. 56-21.
Baton, Jean Pierre; and Llop, Helenio, to Societe d'Optique, Precision, Electronique et Mecanique. Apparatus for measuring coordinates of points. 3,477,790, 11-11-69, Cl. 356-164.
Batou, Boris, to Anstalt Tamerlan. Percussion fuze including rotary delay provisions. 3,451,340, 6-24-69, Cl. 102-76.
Batrow, John A. Liquid dispensing apparatus. 3,434,632, 3-25-69, Cl. 222-400.5
Batson, Robert R.; and Williams, Russell C., to General Motors Corporation. Pull-in apron for a scraper. 3,460,280, 8-12-69, Cl. 37-4.
Batson, William A.; and Winchester, Don B., to Singer Company, The. Double insulated power tools. 3,462,623, 8-19-69, Cl. 310-50.
Batson, William A.: *See—*
Winchester, Don D.; and Batson, William A.,3,439,248.
Batson-Cook Company: *See—*
Gaskins, Jack C., 3,481,221.
Batt, Richard W.: *See—*
Kurti, Alexander; and Batt, Richard W.,3,485,450.
Battaglia, Anthony. Compact hair lift. 3,424,174, 1-28-69, Cl. 132-11.
Battaglia, Anthony. Hair styling comb. 3,444,866, 5-20-69, Cl. 132-126.
Battaglia, Blondell: *See—*
Battaglia, Norman C.; and Battaglia, Blondell,3,470,566.
Battaglia, Norman C.; and Battaglia, Blondell. Apron or bib article. 3,470,566, 10-7-69, Cl. 2-49.
Battail, Gerard Pierre; and Brossard, Pierre Claude, to Communications Satellite Corporation. Communication system having a multiple-access man-made satellite. 3,470,477, 9-30-69, Cl. 325-304.
Batte, William G. Bidirectional binary rate multiplier. 3,474,236, 10-21-69, Cl. 235-150.3
Battelle Development Corporation, The: *See—*
Bouladon, Gabriel; and Zuppiger, Paul, 3,431,866.
Boyer, Charles B.; and Orcutt, Franklin D., 3,427,011.
Boyer, Charles B.; Conaway, Robert Michael; and Orcutt, Franklin D., 3,466,656.
Carlson, Ronald J., 3,419,951.
Cooper, Charles W.; and Grode, Gerald A., 3,462,342.
Crites, Nelson A., 3,480,003.
Droege, John W.; and Melton, Carl W., 3,440,046.
Goldberger, William M.; Reed, Allan K.; and Snavely, Cloyd A., 3,448,234.
Goldberger, William M.; and Gillot, Jacques, 3,457,049.
Goldberger, William M., 3,461,679.
Hoenig, Stuart A., 3,475,882.
Jaffee, Robert I., 3,447,231.
Jones, John B., Jr., 3,432,348.
Meister, Robert P.; and Nelson, Jerome W., 3,462,579.
Nack, Herman, 3,460,972.
Nelson, Jerome W.; and Lewis, Wallace J., 3,432,638.
Nelson, Jerome W.; and Lewis, Wallace J., 3,457,387.
Romualdi, James P., 3,429,094.
Sellin, Jan; and Steijner, Olof, 3,431,082.
Sorensen, Svend E.; and McHale, William L., 3,446,197.
Sorensen, Svend E.; and McHale, William L., 3,478,651.
Stephenson, Kermit Q.; and Click, Larry S., 3,460,493.
Zuppiger, Pau, 3,462,002.
Battelle Memorial Institute: *See—*
Baker, Franklin Albert, 3,446,959.
Rouxel, Roland; and Helein, Jean G., 3,480,765.
Battelle Memorial Institute, International Division: *See—*
Grundschober, Friedrich; and Sambeth, Josef, 3,477,868.
Battelle-Institut e.V.: *See—*
Almer, Friedrich Hermann Raymund; and Weiper, Adrianus, 3,472,693.
Harmuth, Henning, 3,470,324.
Sandstede, Gerd; Isenberg, Arnold; and Pabst, Wilfried, 3,472,697.
Batten, Ronald W., to Hi-Shear Corporation. Fastener driving tool with fastener aligning means. 3,456,326, 7-22-69, Cl. 29-211.
Batten, Ronald W., to Hi-Shear Corporation. Offset driver for threaded fasteners. 3,477,318, 11-11-69, Cl. 81-57.
Battentier, Jean-Claude: *See—*
Richez, Jacques; Dubois, Andre; Battentier, Jean-Claude; Thoris, Jean; and Parizot, Daniel,3,475,627.
Battermann, Johan; and Froman, Bernard, to Babcock & Wilcox, Limited. Vibration coupling device for an ultrasonic transducer. 3,420,097, 1-7-69, Cl. 73-71.5
Battersby, William R., to United Shoe Machinery Corportion. Methods for making container bodies using thermoplastic adhesive. 3,437,063, 4-8-69, Cl. 113-121.
Battersby, William R., to United Shoe Machinery Corporation. Ethylene copolymer thermoplastic adhesives. 3,468,978, 9-23-69, Cl. 260-897.
Batterson, Carl E. Inflatable air tent. 3,456,403, 7-22-69, Cl. 52-2.
Batterson, Leroy R.; and Batterson, Robert L. Control device for hoop toys. 3,464,149, 9-2-69, Cl. 46-114.
Batterson, Robert L.: *See—*
Batterson, Leroy R.; and Batterson, Robert L.,3,464,149.
Batterton, Elmo L.; and Lonsdale, Melvin J., to Meyer Morton Co. Continuous flow grain dryer. 3,440,734, 4-29-69, Cl. 34-65.
Batti, Mario Alexander, to Miles Laboratories, Inc. Fermentation process for producing citric acid. 3,438,863, 4-15-69, Cl. 195-36.
Battista, Orlando A., to FMC Corporation. Modified colloidal chrysotile and method of preparing same. 3,458,393, 7-29-69, Cl. 162-3.
Battista, Orlando A., to FMC Corporation. Method of producing absorbent mats. 3,471,598, 10-7-69, Cl. 264-28.
Battista, Orlando A.; Cruz, Mamerto M., Jr.; and Riley, Walter J., to FMC Corporation. Prosthetic structures from microcrystalline collagen. 3,443,261, 5-13-69, Cl. 3-1.
Battista, Orlando A.; and Karasinski, Frank J., to FMC Corporation. Low melting metallic articles reinforced with modified chrysotile. 3,431,090, 3-4-69, Cl. 29-182.5
Battista, Orlando A.; and Karasinski, Frank J., to FMC Corporation. Method of making metallic articles containing mineral fibers. 3,475,168, 10-28-69, Cl. 75-206.
Battistoni, Harry J.; and Vandergrift, Alice M. Outdoor shelter construction. 3,456,980, 7-22-69, Cl. 297-184.
Battle, James H.: *See—*
Shanefield, Daniel J.; Battle, James H.; and Lighty, Paul E.,3,448,425.
Shanefield, Daniel J.; Battle, James H.; and Currier, Emery W.,3,453,583.
Battle, Michael A., to Market Electronics Company. Echo producing endless loop magazine recorder. 3,444,330, 5-13-69, Cl. 179-100.2
Battle, Thomas: *See—*
Longley, Harry F.; Bedford-Jones, Peter E.; and Battle, Thomas,3,443,930.
Battles, Jorge Ferrer: *See—*
Salat, Carlos Ferrer; Battles, Jorge Ferrer; and Riera, Juan Colome,3,439,091.
Batts, John H., to Batts, John Thomas, Inc. Garment hanger. 3,459,349, 8-5-69, Cl. 223-91.
Batts, John Thomas, Inc.: *See—*
Batts, John H., 3,459,349.
Batur, Eugene H.: *See—*
Batur, Eugene H., 3,444,545.
Batur, Eugene H., 50% to Batur, Eugene H., and 50% to Swider, Irvin F. Lubrication line blockage sensing system. 3,444,545, 5-13-69, Cl. 340-270.
Batz, Walter: *See—*
Rothstein, Paul; Shannon, Castle; and Batz, Walter,3,428,534.
Batzer, Hans: *See—*
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans,3,455,869.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans,3,470,128.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans,3,470,129.
Lohse, Friedrich; and Batzer, Hans,3,442,870.
Metzger, Karl; Porret, Daniel; and Batzer, Hans,3,423,429.
Porret, Daniel; Lohse, Friedrich; Leumann, Ernst; Nikles, Erwin; and Batzer, Hans,3,455,949.
Batzer, Hans; Ernst, Otto; and Niklaus, Ulrich, to Ciba Limited. Compositions containing an epoxy resin and a cured aminoplast as filler. 3,470,266, 9-30-69, Cl. 260-834.
Batzer, Hans; and Nikles, Erwin, to Ciba Limited. Diepoxide ethers. 3,436,408, 4-1-69, Cl. 260-348.
Batzer, Hans; and Porret, Daniel, to Ciba Limited. Mixtures of triglycidyl isocyanurate and other heterocyclic epoxides. 3,480,692, 11-25-69, Cl. 260-830.
Batzold, John S., to Esso Research and Engineering Company. Particulate metal catalysts obtained by support removal and a base activation treatment. 3,431,220, 3-4-69, Cl. 252-472.
Bau, Robert Gordon, to Warner Bros. Cosmetics, Inc. Tool for handling false eyelashes and the like. 3,461,886, 8-19-69, Cl. 132-88.7
Bau-Stahlgewebe GmbH: *See—*
Ernst, Walter, 3,460,309.
Rathke, Wolfgang; Szabo, Lyubomir; and Muhlen, Gert V. D., 3,464,179.

Webers, Heinz, 3,477,627.
Baublys, Mikas; Sigloch, Eugen; and Stark, Gotthilf, to Stark, Gotthilf, Firma. Multispindle machine tool. 3,433,102, 3-18-69, Cl. 77-4.
Bauche, Fichet: *See—*
Gerard, Jean, 3,453,974.
Baucke, Horst, to Jagenberg-Werke AG. Apparatus for elimination of sheets in cross cutting and similar machines. 3,433,476, 3-18-69, Cl. 271-64.
Baudat, Andre A.; and Edwards, C. John, to Boeing Company, The. Isometric drafting converter. 3,457,648, 7-29-69, Cl. 33-77.
Baude, John, to Allis-Chalmers Manufacturing Company. Static protective relay system. 3,421,028, 1-7-69, Cl. 307-293.
Baude, John, to Allis-Chalmers Manufacturing Company. Potential indicating device including serially connected noninductive resistor and current transformer. 3,460,036, 8-5-69, Cl. 324-127.
Bauder, Carl J.; Hart, Charles G.; and Cleminshaw, Douglas R., to Cambridge Filter Manufacturing Corporation. Method for using high frequency heat to make a seam in a filter. 3,485,694, 12-23-69, Cl. 156-227.
Bauder, Francis H. Self-storing alighting board for beehives. 3,480,977, 12-2-69, Cl. 6-1.
Baudet, Roger Jean Francois: *See—*
Alder, Robert Oscar; Baudet, Roger Jean Francois; Baudier, Claude Paul; and Gasset, Michelle Marcelle,3,430,405.
Baudier, Claude Paul: *See—*
Alder, Robert Oscar; Baudet, Roger Jean Francois; Baudier, Claude Paul; and Gasset, Michelle Marcelle,3,430,405.
Baudou, Antoine Joseph Georges. Process and apparatus for injection moulding tires. 3,457,594, 7-29-69, Cl. 18-30.
Baudrand, Donald W.; and Mallory, Glenn O., Jr., to ARP, Inc., mesne. Electroless plating process. 3,438,798, 4-15-69, Cl. 117-47.
Baudry, Rene A., to Westinghouse Electric Corporation. Thrust bearing pad support structure. 3,423,139, 1-21-69, Cl. 308-160.
Bauduin, Albert: *See—*
Henry, Georges; Brichard, Edgard; Marchand, Jean; and Bauduin, Albert,3,477,838.
Bauduin, Philippe G.: *See—*
Buchy, Francois Ch.; and Bauduin, Philippe G.,3,487,220.
Bauer & Associates, Inc.: *See—*
Bauer, Howard C.; and Bell, Robert G., 3,462,059.
Bauer & Schaurte: *See—*
Junker, Gerhard A., 3,443,302.
Bauer, Albert W.; and Gorski, Robert A., du Pont de Nemours, E. I., and Company. Azeotropic compositions. 3,431,211, 3-4-69, Cl. 252-172.
Bauer, Albert W.; and Gorski, Robert A., to Du Pont de Nemours, E. I., and Company. Azeotropic composition. 3,477,952, 11-11-69, Cl. 252-171.
Bauer, Alfred F., to National Lead Company. Side core locking mechanism for die casting machine. 3,468,367, 9-23-69, Cl. 164-340.
Bauer, Alfred; and Klossika, Walter, to Telefunken Patentverwertungsgesellschaft m.b.H. Method for simultaneously contacting a plurality of electrodes of a semiconductor element. 3,450,956, 6-17-69, Cl. 317-234.
Bauer, August: *See—*
Meininger, Fritz; and Bauer, August,3,471,469.
Bauer Bros., Co., The: *See—*
Ginaven, Marvin E., 3,451,555.
Ginaven, Marvin E., 3,452,876.
Ginaven, Marvin E.; and Adams, Albert H., 3,460,466.
Starrett, James R., 3,471,364.
Vaughan, Frank C., 3,448,934.
Bauer, Carl: *See—*
Diehl, Karl, 3,465,942.
Bauer, Carl Robert, to Du Pont de Nemours, E. I., and Company. Preparation of titanium alkylorthophosphates. 3,422,126, 1-14-69, Cl. 260-429.5
Bauer, Charles L., to Sunbeam Corporation. Electric shaver. 3,421,215, 1-14-69, Cl. 30-41.
Bauer, Clifford D.; Neuser, Gerald L.; and Pinkalla, Hamilton A., to Grace, W. R., & Co. Edible meat coating composition. 3,483,004, 12-9-69, Cl. 99-169.
Bauer, David L., to Dow Chemical Company, The. Preparation of metal oxychlorides. 3,425,796, 2-4-69, Cl. 23-86.
Bauer, Donald J.; and Lindstrom, Roald E., to United States of America, Interior. Process for fractionating lanthanide mixtures containing cerium. 3,425,793, 2-4-69, Cl. 23-20.
Bauer, Douglas M., to General Electric Company. Amplifier with combined voltage and current gain. 3,484,668, 12-16-69, Cl. 318-18.
Bauer, Earl J.: *See—*
Lents, Charles M., 3,482,414.
Bauer, Egon, to Sonotone Corporation. Battery holder and switch for hearing aid unit. 3,475,566, 10-28-69, Cl. 179-107.
Bauer, Erich O.; Fox, Paul E.; and Mac Pherson, William F., to Bell Telephone Laboratories, Incorporated. Method and apparatus for controlling capacitances in multiwire structures. 3,433,858, 3-18-69, Cl. 264-40.
Bauer, Eugen, GmbH: *See—*
Wilharm, Theo; and Stieringer, Albert, 3,464,334.
Bauer, Eugene C., Jr. Non-uniform wall pipe. 3,451,434, 6-24-69, Cl. 138-172.
Bauer, Friedrich, to Hoerbiger Ventilwerke Aktiengesellschaft. Capacity control system for compressor units. 3,480,199, 11-25-69, Cl. 230-4.
Bauer, Fritz; Klatt, Peter; and Sellhorn, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Composition containing penicillin and dye indicator for treating udders. 3,427,377, 2-11-69, Cl. 424-7.
Bauer, Gordon L.: *See—*
Kovaleski, Joseph J.; and Bauer, Gordon L.,3,425,647.
Bauer, Gunther: *See—*
Kurzke, Herbert; Bauer, Gunther; and Heinrich, Karl,3,479,689.
Bauer, Gustav, KG Guba-Unrenrohwerke: *See—*
Herzog, Hilmar, 3,447,993.
Bauer, Hans; and Holzer, Helmut, to Sud-West-Chemie G.m.b.H. Method of making thermoplastic welding fitting. 3,422,179, 1-14-69, Cl. 264-272.
Bauer, Heinrich; Romgens, Hans; Sontag, Hans-Jurgen; and Zeppelzauer, Franz, to Rheinische Blattmetall Aktiengesellschaft and Dessau Vetaphone Gesellschaft. Method of treating metallic surfaces. 3,451,871, 6-24-69, Cl. 156-244.
Bauer, Helmut: *See—*
Erdmann, Kurt; Nerlick, Lydia, curatrix; Fischer, Claus; Friedenrich, Heinrich; and Bauer, Helmut,3,481,255.
Bauer, Helmut, to Maschinenfabrik Burckhardt A.G. Safety device for protection against excess fluid pressure. 3,425,441, 2-4-69, Cl. 137-467.
Bauer, Hermann: *See—*
Weiss, Franz; and Bauer, Hermann,3,438,789.
Bauer, Horace P., to Budd Company, The. Roof structure. 3,486,277, 12-30-69, Cl. 52-46.
Bauer, Howard C.; and Bell, Robert G., to Bauer & Associates, Inc. Internal alignment clamp. 3,462,059, 8-19-69, Cl. 228-5.
Bauer, Hugo. Dispensing device with follower as discharge assistant. 3,480,181, 11-25-69, Cl. 221-279.
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf, to Wacker-Chemie G.m.b.H. Organopolysiloxane grease. 3,423,318, 1-21-69, Cl. 252-49.6
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf, to Wacker-Chemie G.m.b.H. Casting and impregnating resins containing organosiloxanes. 3,487,123, 12-30-69, Cl. 260-827.
Bauer, Jerome: *See—*
Block, Charles; and Bauer, Jerome,3,473,004.
Bauer, Karl: *See—*
Martens, Gerhard; Bauer, Karl; Turk, Herbert; and Schiminski, Herbert,3,487,187.
Bauer, Kurt, 50% to Nolte, Albert C., Jr. Vehicular vortex cyclone type air and gas purifying device. 3,426,513, 2-11-69, Cl. 55-459.
Bauer, Kurt, to Ciba Corporation. Coatings for rectal capsules and process for their manufacture. 3,432,594, 3-11-69, Cl. 424-33.
Bauer, Kurt; and Kohler, Alfred, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Windshield spray assembly having an adjustable spherical nozzle member. 3,433,416, 3-18-69, Cl. 239-284.
Bauer, Ludwig, to International Standard Electric Corporation. Pushbutton assembly incorporating self-fastening elements. 3,478,186, 11-11-69, Cl. 200-172.
Bauer, Myron J.; Neuman, Milton C.; and Wiethoff, Roger H., to United States of America, Navy. Blast door for missile launching system. 3,477,338, 11-11-69, Cl. 89-1.805
Bauer, Paul, to TRW Inc. Pulse battery. 3,421,944, 1-14-69, Cl. 136-6.
Bauer, Paul, to TRW Inc. Gas pressure control for varying thermal conductivity. 3,450,196, 6-17-69, Cl. 165-32.
Bauer, Peter, to Bowles Engineering Corporation. Bistable fluid valves. 3,426,800, 2-11-69, Cl. 137-608.
Bauer, Peter, to Bowles Engineering Corporation. High frequency proportional fluid amplifier. 3,434,487, 3-25-69, Cl. 137-81.5
Bauer, Peter, to Bowles Engineering Corporation. Fluid-driven timing mechanism. 3,439,695, 4-22-69, Cl. 137-81.5
Bauer, Ralf: *See—*
Kahle, Otto; and Bauer, Ralf,3,429,453.
Bauer, Ralph H.; and Deisz, Marvin A., to Shell Oil Company. Block copolymer powders. 3,441,530, 4-29-69, Cl. 260-28.5
Bauer, Richard A., to Arm, Inc. Gravity sensitive electric switch. 3,452,312, 6-24-69, Cl. 337-12.
Bauer, Richard G.; Bletso, Nelson C.; Mast, William C.; and Pierson, Robert M., to Goodyear Tire & Rubber Company, The. Clear and impact resistant blends of resinous and rubbery polymers partly compatiblized by a grafting polymer. 3,475,516, 10-28-69, Cl. 260-876.
Bauer, Richard H.; and Kilpert, Richard, to Esso Research and Engineering Company. Method for insulating pipes. 3,439,075, 4-15-69, Cl. 264-45.
Bauer, Richard H.; and Kilpert, Richard, to Esso Research and Engineering Company. Method and apparatus for spray foam insulating a pipe. 3,480,493, 11-25-69, Cl. 156-78.

Bauer, Richard H.: *See*—
Kilpert, Richard; and Bauer, Richard H.,3,426,902.
Kilpert, Richard; Winsor, Edward J.; and Bauer, Richard H.,3,425,455.
Bauer, Robert D.: *See*—
Constantikes, George J.; and Bauer, Robert D.,3,427,228.
Bauer, Robert D., to Phillips Petroleum Company. Vapor-liquid contacting apparatus. 3,434,701, 3-25-69, Cl. 261-114.
Bauer, Robert E. Apparatus for arranging and placing groups of articles in shelves. 3,432,045, 3-11-69, Cl. 214-16.4
Bauer, Robert F.; and Stratton, Hal, to Shell Oil Company, mesne. Drilling. 3,426,858, 2-11-69, Cl. 175-7.
Bauer, Robert H.: *See*—
Tantlinger, Keith W.; and Bauer, Robert H.,3,473,819.
Bauer, Ronald S.: *See*—
Youngman, Edward A.; Bauer, Ronald S.; and Dewhirst, Kenneth C.,3,444,145.
Bauer, Simon; and Wittmann, Josef, to Fritzmeier, Georg, KG. Sprung vehicle seats. 3,480,324, 11-25-69, Cl. 297-308.
Bauer, Werner Robert: *See*—
Russell, William J.; and Bauer, Werner Robert,3,458,679.
Bauer, Werner Robert, to Robertshaw Controls Company. Switch blade with straight sided stiff tongue and arcuate sided bowed flexible tongue. 3,449,534, 6-10-69, Cl. 200-76.
Bauer, Werner Robert; and Hipple, George Mack, to Robertshaw Controls Company. Switch with straight common terminal having plural pivots. 3,459,912, 8-5-69, Cl. 200-67.
Bauer, William C.; and Amano, Carl K., to FMC Corporation. Extraction of metals. 3,429,693, 2-25-69, Cl. 75-101.
Bauer, William Charles: *See*—
Merigold, Charles Reynolds; and Bauer, William Charles,3,478,597.
Bauer, William J. Process for wet oxidation of combustible waste materials. 3,449,247, 6-10-69, Cl. 210-63.
Bauer, William V.: *See*—
Mekler, Valentine; Sze, Morgan C.; Bloomer, Ward J.; and Bauer, William V.,3,420,656.
Sze, Morgan C.; and Bauer, William V.,3,429,804.
Bauer, William. Shoe covering and gaiter. 3,477,147, 11-11-69, Cl. 36-2.
Bauerfeind, Herbert: *See*—
John, Willy; and Bauerfeind, Herbert,3,427,825.
Bauerle, Wilhelm; and Rentsch, Wolfgang, to Bosch, Robert, G.m.b.H. Electric motor and gear train with antivibration housing arrangement. 3,463,951, 8-26-69, Cl. 310-51.
Bauerlein, Rudolf; and Raithel, Kurt, to Siemens Aktiengesellschaft. Method of making a pnpn thyristor. 3,442,722, 5-6-69, Cl. 148-178.
Bauernfeind, Jacob; and Mitrovi, Milan, to Hoffmann-La Roche Inc. Methods of treating coccidiosis with 4- sulfonilamido-2,6 dimethoxy-pyrimidine. 3,458,631, 7-29-69, Cl. 424-229.
Bauers, Arthur A.: *See*—
McKinney, Ralph E.; and Bauers, Arthur A.,3,474,935.
Bauger, Louis Jules; and Lacroix, Armand Jean Baptiste, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Turbo-jet engines and other jet engines of the dual- flow type. 3,477,230, 11-11-69, Cl. 60-224.
Baugh, Benton F.: *See*—
Jones, Marvin R.; and Baugh, Benton F.,3,429,385.
Jones, Marvin R.; and Baugh, Benton F.,3,477,526.
Baugh, Charles W.: *See*—
Orloff, John F.; and Baugh, Charles W.,3,421,562.
Baugh, Charles W., to Huck Manufacturing Company. Hollow fastener and plug assembly. 3,424,051, 1-28-69, Cl. 85-77.
Baugh, Charles W., to Huck Manufacturing Company. Self-releasing anvil. 3,425,259, 2-4-69, Cl. 72-391.
Baugh, Jarod L.: *See*—
Boyd, Aubrey B.; and Baugh, Jarod L.,3,439,617.
Baugh, Robert A.; and Ostrowski, John S., to PPG Industries, Inc. Organosilicon-modified polyesters containing unsaturated aldehydes. 3,475,512, 10-28-69, Cl. 260-827.
Baugh, Robert A.; Ostrowski, John S.; and Zwack, Robert R., to PPG Industries, Inc. Ungelled, organic solvent-soluble interpolymers containing unsaturated aldehydes and coating compositions made therefrom. 3,459,690, 8-5-69, Cl. 260-2.
Baugh, Robert A.: *See*—
Ostrowski, John S.; and Baugh, Robert A.,3,459,691.
Baugh, William D.: *See*—
Horvitz, David; Shaw, Robert J.; and Baugh, William D.,3,423,175.
Baughman, George W. Multifrequency receiving signal summing multiphase induction motor. 3,421,061, 1-7-69, Cl. 318-172.
Baughman, Walter P., to Plastomer Corporation. Coat hanger sheath. 3,460,727, 8-12-69, Cl. 223-98.
Bauhaus, Richard H.; Harrington, Howard W.; and Poulter, Howard C., to Hewlett-Packard Company. Method for spectroscopically analyzing a sample by detecting a radiation field change as a function of the radiation power density in the sample. 3,440,529, 4-22-69, Cl. 324-58.5
Baukal, Werner, to Aktiengesellschaft Brown, Boveri & Cie. Fuel battery with stabilized zirconium oxide electrolyte. 3,429,749, 2-25-69, Cl. 136-86.
Bauknecht, G., G.m.b.H. Elektrotechnische Fabriken: *See*—
Laszlo, Karl, 3,429,628.
Baulard-Cogan, Raymond Gerard. Animated doll. 3,481,070, 12-2-69, Cl. 46--135
Baum, Bernard O., to Union Carbide Corporation. Peroxide cured polyethylene compositions containing coated clays. 3,425,980, 2-4-69, Cl. 260-41.
Baum, Bernard O., to Budd Company, The. Polymerization of higher lactams. 3,440,227, 4-22-69, Cl. 260-78.
Baum Chemical Corporation: *See*—
Baum, Sidney J., 3,427,889.
Baum, Cleophas Philemon, to United States of America, Navy. Compatible missile/aircraft configuration. 3,468,501, 9-23-69, Cl. 244-137.
Baum, Frank E.: *See*—
Ashley, William H., Jr., 3,463,983.
Baum, Gary Allen; Beno, Richard L.; and Van Vorous, Theodore, to United States of America, Atomic Energy Commission. Apparatus for vacuum deposition on a negatively biased substrate. 3,428,546, 2-18-69, Cl. 204-298.
Baum, Gerald A., to M & T Chemicals Inc. Stabilized vinyl halide compositions. 3,454,514, 7-8-69, Cl. 260-23.
Baum, Henry H., to National Cash Register Company, The. Recording process utilizing 6'-nitro-1,3,3- trimethyl-benzoindolinospiropyran dispersed in heat-meltable wax. 3,421,894, 1-14-69, Cl. 96-48.
Baum, Henry H., to National Cash Register Company, The. Thermographic recording system. 3,451,338, 6-24-69, Cl. 101-469.
Baum, James R.; and Jimenez, Raymond J., to Motorola, Inc. Thermocouple assembly. 3,462,317, 8-19-69, Cl. 136-230.
Baum, John W., to United States of America, Atomic Energy Commission. Dose equivalent radiation system. 3,457,413, 7-22-69, Cl. 250-83.6
Baum, Kurt: *See*—
Grakauskas, Vytautas; and Baum, Kurt,3,423,419.
Baum, Kurt, to Aerojet-General Corporation. Method for the preparation of difluoroamino compounds. 3,423,463, 1-21-69, Cl. 260-583.
Baum, Leo; and Krueger, Robert E., to Nixotene Corporation. Tobacco smoke filter. 3,468,316, 9-23-69, Cl. 131-187.
Baum, Melvin E., to Koppers Company, Inc. Foamed polystyrene articles coated with an unsaturated polyester resin having monovinyl ether monomer. 3,431,319, 3-4-69, Cl. 260-861.
Baum, Melvin E.; Fekete, Frank; and Hatton, John A., to Koppers Company, Inc. Polyester resin composition having a thickening agent therein. 3,431,320, 3-4-69, Cl. 260-865.
Baum, Melvin E.: *See*—
Fekete, Frank; and Baum, Melvin E.,3,465,061.
Baum, Robert E., to Sencore, Inc. Frequency divider system. 3,430,067, 2-25-69, Cl. 307-225.
Baum, Sidney J., to Baum Chemical Corporation. Adjusting mechanism. 3,427,889, 2-18-69, Cl. 74-89.15
Baum, Thedore M., to Koppers Company, Inc. Blank handling apparatus. 3,420,387, 1-7-69, Cl. 214-6.
Baum, W. A., Co., Inc.: *See*—
Hanafin, Bernard M., 3,473,525.
Baum, Werner H.; Crist, Joseph G.; and Nagle, Elliott V., to United States Steel Corporation. Process for removing nitric oxide from gaseous mixtures. 3,428,414, 2-18-69, Cl. 23-2.
Baum, William H., to Fastener Corporaton. Fastener driving apparatus. 3,437,249, 4-8-69, Cl. 227-120.
Bauman, Albert J.; Weliky, Nrman; and Weetall, Howard H., to California Institute Research Foundation. Chelating resin coupling product of diazotized cellulose and dithizone or oxine. 3,484,390, 12-16-69, Cl. 260-2.2
Bauman, Jack L.; and Walker, John A., to International Harvester Company. Marker alternator. 3,428,134, 2-18-69, Cl. 172-130.
Bauman, John A.; and Bender, James O., to Rings Incorporated. Means for securing clamping rings. 3,470,589, 10-7-69, Cl. 24-23.
Bauman, Joseph F.; and Rette, Stanley P., to Acme-Hamilton Manufacturing Corporation. Apparatus for the continuous formation of tubular articles. 3,430,292, 3-4-69, Cl. 18-19.
Bauman, Robert Andrew, to Colgate-Palmolive Company. Laundering adjunct and method of preparing. 3,424,545, 1-28-69, Cl. 8-137.
Bauman, Robert Andrew, to Colgate-Palmolive Company. Symmetrical halo-substituted aromatic di- quaternary ammonium compounds. 3,471,560, 10-7-69, Cl. 260-567.6
Bauman, Robert L.; and Holt, Frederick Rodney, to Hickok Electrical Instrument Company, The. Digital capacity measuring instrument including a difference amplifier and a direct current-to-frequency converter. 3,480,858, 11-25-69, Cl. 324-60.
Bauman, Ronald M. Orthicon protective circuit. 3,435,275, 3-25-69, Cl. 315-12.
Baumann, Arthur N., to International Minerals & Chemical Corporation. Method for upgrading pebble phosphate. 3,421,849, 1-14-69, Cl. 23-109.

Baumann, Arthur N.; and Roberts, Hugh H., to International Minerals & Chemical Corporation. Digestion cell and analyzing system containing same. 3,449,082, 6-10-69, Cl. 23-253.
Baumann, Erwin: *See—*
Petner, Eugene J.; Baumann, Erwin; and Cornell, John A.,3,471,596.
Baumann, Gerhard. Plant receptacle for hydroponics. 3,483,656, 12-16-69, Cl. 47-1.2
Baumann, Gunther: *See—*
Babitzka, Rudolf; Baumann, Gunther; Hoelle, Hermann; and Scholl, Hermann,3,463,129.
Baumann, Hans D., to Evans, Sheldon C., and Cummins, Samuel A. Adjustable fluid restrictor. 3,485,474, 12-23-69, Cl. 251-121.
Baumann, Hans; Erni, Edoardo; and Horvath, Attila, to Aktiengesellschaft Brown, Boveri & Cie. Floating-ring type shaft seal. 3,462,159, 8-19-69, Cl. 277-27.
Baumann, Horst: *See—*
Stein, Werner; Baumann, Horst; and Voss, Manfred,3,424,693.
Stein, Werner; Baumann, Horst; and Voss, Manfred,3,424,694.
Baumann, Horst; and Stein, Werner, to Henkel & Cie G.m.b.H. Process for the manufacture of light-colored olefin sulfonation products or of the corresponding sulfonates. 3,423,453, 1-21-69, Cl. 260-513.
Baumann, Karl Heinz: *See—*
Herrle, Karl; Baumann, Karl Heinz; Beckmann, Wilhelm; and Heil, Eduard,3,458,467.
Baumann, Kurt, to Krups, Robert. Drive pin assembly for the cutter block of an electric razor. 3,462,833, 8-26-69, Cl. 30-43.92
Baumann, Kurt; and Schurenberg, Wilhelm, to Escher Wyss Aktiengesellschaft. Torque limiting wicket gate operating mechanism for hydraulic machines. 3,455,331, 7-15-69, Cl. 137-601.
Baumann, Ludwig; and Schutze, Benno, said Schutze assor. to said Baumann. Ventilating fan unit. 3,421,428, 1-14-69, Cl. 98-33.
Baumann, Ulrich: *See—*
Kautter, Carl Theodor; Baumann, Ulrich; and Riemann, Karl Heinz,3,458,561.
Baumberger, Clement F.; and Micheron, Francois, to CSF-Compagnie Generale de Telegraphie Sans Fil. Ferroelectric infrared image translator. 3,479,510, 11-18-69, Cl. 250-83.3
Baumberger, Clement: *See—*
Micheron, Francois; and Baumberger, Clement,3,487,212.
Baumeister, Heard K.: *See—*
Badum, Paul J.; Baumeister, Heard K.; and Nejezchleb, Vladimir,3,442,419.
Baumel, Anton, to Bohler, Gebr. & Co. Aktiengesellschaft. Fused corrosion resistant cobalt-chromium alloy. 3,421,890, 1-14-69, Cl. 75-171.
Baumel, Anton, to Bohler, Gebr., & Co. Aktiengesellschaft. Corrosion-resisting cobalt-chromium-tungsten alloy. 3,425,827, 2-4-69, Cl. 75-171.
Baumert, Dietrich: *See—*
Werres, Horst; Baumert, Dietrich; and Kotter, Clemens,3,437,730.
Baumgaertner, Wilhelm; Zwicker, Ludwig; and Szyszka, Manfred, to Metrawatt Aktiengesellschaft. Indicating apparatus. 3,439,647, 4-22-69, Cl. 116-129.
Baumgardner, Arthur R.; Johnston, Richard P.; Martini, William R.; and White, Maurice A., to McDonnell Douglas Corporation. Stirling cycle machine with self oscillating regenerator. 3,484,616, 12-16-69, Cl. 290-1.
Baumgartel, Frank A., to Bailey Meter Company. Gas analysis method for determining the oxygen content of gas containing carbon dioxide. 3,480,397, 11-25-69, Cl. 23-232.
Baumgarten, Morton Z.: *See—*
Brown, Charles J.; and Baumgarten, Morton Z.,3,470,725.
Baumgarten, Morton Z., to Charter Wire, Inc., mesne. Retaining ring. 3,460,427, 8-12-69, Cl. 85-8.8
Baumgartner, August, to Zellweger Ltd. Machine for inserting leases in warps. 3,432,897, 3-18-69, Cl. 28-40.
Baumgartner, John G., to Anchor Brush Company. Staple guide for securing bristles of a brush to a brush handle. 3,430,281, 3-4-69, Cl. 15-195.
Baumgartner, John R.; and Bouchard, Arthur J., to Rota Forg Corporation. Forging apparatus. 3,478,556, 11-18-69, Cl. 72-185.
Baumgartner, Robert G., to Bell Telephone Laboratories, Incorporated. Pedestal closure for buried telephone cable. 3,480,721, 11-25-69, Cl. 174-38.
Baumgartner, Robert G.; and Graff, Harry J., to Bell Telephone Laboratories, Incorporated. Underground distribution closure. 3,466,380, 9-9-69, Cl. 174-38.
Baumgartner, Robert L.: *See—*
Hvale, James L.; and Baumgartner, Robert L.,3,482,332.
Baumgartner, Robert L., to Drackett Company, The. Plastic squeeze mop. 3,483,583, 12-16-69, Cl. 15-119.
Baumgartner, Willy: *See—*
De Haller, Andre; and Baumgartner, Willy,3,485,550.
Baumler, Hermann, to Goetzewerke Friedrich Goetze A.G. Slide ring seal. 3,471,159, 10-7-69, Cl. 277-85.
Baumler, Raymond P. Simulated action target apparatus. 3,471,153, 10-7-69, Cl. 273-105.2
Baumstark, Walter A.: *See—*
Brennan, Thomas J.; and Baumstark, Walter A.,3,424,187.
Baumstimler, August B. Method and apparatus for simultaneously cleaning a well and removing a downhole tool. 3,446,283, 5-27-69, Cl. 166-43.
Baun, Leonard J., to Radio Corporation of America. Non-random field shift apparatus for a television waveform monitor. 3,420,952, 1-7-69, Cl. 178-69.5.
Baun, Leonard J., to Radio Corporation of America. Line-select apparatus for a television waveform monitor. 3,423,525, 1-21-69, Cl. 178-7.3
Baur, Hans; and Fabianke, Hartmut, to Siemens Aktiengesellschaft. Charge accumulation system for telephone installations. 3,480,732, 11-25-69, Cl. 179-7.1
Baur, Karl Gerhard: *See—*
Platz, Rolf; and Baur, Karl Gerhard,3,475,495.
Bauriedel, Friedrich, to Du Pont de Nemours, E. I., and Company. Process for hardening photographic layers. 3,482,983, 12-9-69, Cl. 96-111.
Baurmann, Karl-Wilhelm: *See—*
Schulten, Rudolf; Bohn, Thomas; Hecker, Rudolf; and Baurmann, Karl-Wilhelm,3,453,090.
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B., to Carcy-McFall Company. Artificial tree branch. 3,459,624, 8-5-69, Cl. 161-24.
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B., to Carey-Mc Fall Company. Artificial-tree construction. 3,463,696, 8-26-69, Cl. 161-24.
Bausch & Lomb Incorporated: *See—*
Baade, Richard K., 3,427,703.
Benford, James R.; and Korones, Herbert D., 3,433,552.
Benford, James R.; and Rosenberger, Harold E., 3,471,218.
Benford, James R., 3,476,462.
Bird, Thomas S., 3,432,226.
Bird, Thomas S., 3,437,403.
Blum, Raymond T.; and Zak, Theodore J., 3,444,652.
Boonan, Douglas D.; and Maxwell, Gary B., 3,431,054.
Bravenec, Frank Richard, 3,460,158.
Brewster, Gordon F.; and Weidel, Robert A., 3,481,751.
Brewster, Gordon F.; and Weidel, Robert A., 3,481,752.
Brewster, Gordon F.; and Weidel, Robert A., 3,481,753.
Brumley, Corwin H.; and Ferris, John T., 3,455,625.
Button, Roger E., 3,487,225.
Clark, James A.; and Esmay, Edward N., 3,471,220.
Claxton, Clarence W.; and Esmay, Edward N., 3,444,760.
Doonan, Douglas D., 3,428,814.
Doonan, Douglas D., 3,437,817.
Doonan, Douglas D., 3,465,143.
Fierle, Edward J.; and Melville, William R., Jr., 3,445,092.
Gabriel, Alfred P.; Lee, Robert E.; and Mohrman, Richard C., 3,449,946.
Gantz, William A.; Runkle, Raymond B.; and Buchla, Donald F., 3,453,441.
Grassl, Hugo H., 3,437,168.
Grimshaw, James F., 3,449,959.
Hamblen, David P., 3,486,808.
Hardway, Edward V., Jr., 3,475,763.
Harmon, Duane D., 3,437,447.
Harrick, Nicolas J.; and Turner, Arthur F., 3,436,159.
Hensler, Joseph R.; and Letter, Eugene C., 3,428,474.
Jackson, Earl V., 3,432,195.
Jackson, Earl V.; and Mohrman, Richard C., 3,476,465.
Judd, Duane E., 3,428,389.
Keller, John D., 3,431,423.
Laughman, George J., 3,445,665.
Letter, Eugene C., 3,421,915.
Letter, Eugene C., 3,431,326.
Letter, Eugene C., 3,455,627.
Letter, Eugene C., 3,455,683.
Letter, Eugene C., 3,476,461.
Levins, Philip L., 3,437,402.
Lueck, Irving B., 3,445,169.
Lueck, Irving B.; and Sheld, Clarence A., 3,471,358.
Martens, Alexander E.; and Sullivan, Bernard J., 3,428,796.
Martens, Alexander E., 3,431,760.
Martens, Alexander E., 3,439,241.
Martens, Alexander E., 3,445,639.
Martens, Alexander E., 3,445,664.
Martens, Alexander E., 3,465,157.
Martens, Alexander E., 3,487,222.
Meltzer, Robert J., 3,438,712.
Meltzer, Robert J., 3,450,477.
Mohrman, Richard C., 3,449,945.
Naujokas, Andrius A., 3,485,556.
Nothnagle, Paul E.; and Rosenberger, Harold E., 3,421,807.
Rand, Royden N., 3,432,414.
Rosenberger, Harold E., 3,428,390.
Rosenberger, Harold E.; and Tchejeyan, Sarkis K., 3,437,395.
Rosenberger, Harold E.; and Seidenberg, Richard L., 3,456,998.
Rosenberger, Harold E., 3,481,665.

Sahmel, Otto H., 3,431,531.
Sawicki, Edward, 3,486,237.
Seedhouse, Frederick A., 3,437,404.
Sheldon, Gilbert J., 3,481,660.
St. Onge, David L., 3,471,219.
Steinberg, Israel V., 3,450,613.
Sullivan, Bernard J., 3,422,308.
Sullivan, Bernard J., 3,465,260.

Bausch, Gunther, to Diehl. Control circuit for turning off stabilized starting voltages in case of short circuit. 3,479,564, 11-18-69, Cl. 317-22.

Bauserman, Howard M., to Stearns-Roger Corporation. Pulp deliquifying press. 3,478,679, 11-18-69, Cl. 100-117.

Baust, George A.: *See*—
Ciapetta, Frank G.; Henderson, Donald S.; and Baust, George A.,3,471,265.

Bautz, Frederick H., to Verson Allsteel Press Company. Transfer assembly for presses. 3,456,814, 7-22-69, Cl. 214-1.

Bautz, Frederick H.; and McElroy, Howard J., to Verson Allsteel Press Company. Transfer assembly for presses. 3,432,042, 3-11-69, Cl. 214-1.

Bauwens, Jean: *See*—
Jehenson, Pierre Simon; and Bauwens, Jean,3,476,614.

Bavlnarsky, Vyzkumny Ustav: *See*—
Bucil, Frantisek; Hybl, Josef; Kabele, Stanislav; and Vecera, Milos, 3,439,488.

Bavor, Gordon F., to Machlett Laboratories, Incorporated, The. Dynamic braking apparatus. 3,456,175, 7-15-69, Cl. 318-212.

Bawa, Mohendra S., to Texas Instruments, Incorporated. Method of making carbonate electrolyte matrix and fuel cell therewith. 3,466,197, 9-9-69, Cl. 136-86.

Bawa, Mohendra S.; Connally, Leslie O.; and Truitt, James K., to Texas Instruments Incorporated. Cermet material and method of making same. 3,421,863, 1-14-69, Cl. 29-182.5

Bawa, Mohendra S.; and Truitt, James K., to Texas Instruments, Incorporated. Method and apparatus for reforming Carbonaceous fuels and operating fuel cell. 3,453,146, 7-1-69, Cl. 136-86.

Baxendale, John W.: *See*—
Craven, Herman R.; and Baxendale, John W.,3,420,404.

Baxendale, Lily, to Biorex Laboratories Limited. Glycyrrhetyl glucosiduronates. 3,442,911, 5-6-69, Cl. 260-345.8

Baxmann, Fritz; Bursian, Wolfgang; and Schumacher, Rudolf, to Chemische Werke Huls Aktiengesellschaft. Process for the production of polyolefines containing blowing agents. 3,470,113, 9-30-69, Cl. 260-2.5

Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L., to Philip Morris Incorporated. Laminated polarets. 3,449,093, 6-10-69, Cl. 29-195.

Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L., to Philip Morris Incorporated. Laminated electrets. 3,449,094, 6-10-69, Cl. 29-195.

Baxter, Benjamin D. Parked car location reminder device. 3,460,508, 8-12-69, Cl. 116-133.

Baxter, Bernie M.; and Cheney, Donald L. Key ejector. 3,430,469, 3-4-69, Cl. 70-388.

Baxter, Bob G., to Binkley Company, The. Nonremovable swivel crank structure. 3,436,987, 4-8-69, Cl. 74-547.

Baxter, Duane W.; Felton, Bruce C.; Hill, Harold W.; and Hoffman, Harry S., Jr., to International Business Machines Corporation. Card capacitor storage selection system. 3,428,953, 2-18-69, Cl. 340-173.

Baxter, Emery E., to Motorola, Inc. Multilayer printed circuit with soldered eyelets forming the sole means joining the same. 3,424,854, 1-28-69, Cl. 174-68.5

Baxter, Gene F.: *See*—
Kreibich, Roland E.; Freeman, Harlan G.; and Baxter, Gene F.,3,422,068.

Baxter, J. H., & Co.: *See*—
Hyatt, Marx, 3,423,893.

Baxter Laboratories, Inc.: *See*—
Anderson, Roy A., 3,466,249.
Cabernoch, James L.; and Stevens, Kenneth H., 3,429,432.
De Dobbeleer, Gilbert Desire, 3,484,369.
Gajewski, Henry M.; Harrison, Robert R.; and Snyder Donald, 3,456,965.
Griffith, Lionell K., 3,477,423.
Lingley, Robert Crawford, 3,437,788.
Regan, Bernard M., 3,431,313.
Regan, Bernard M., 3,444,249.
Regan, Bernard M., 3,448,197.
Regan, Bernard M., 3,448,198.
Regan, Bernard M., 3,458,584.
Regan, Bernard M., 3,480,683.
Ritz, Alvin H., 3,438,549.
Shine, Dennis F., 3,474,949.
Shine, Dennis F., 3,480,172.

Baxter, Robert O., to International Paper Company. Dunnage service. 3,442,402, 5-6-69, Cl. 214-10.5

Baxter, Samuel; and Gilbert, John Harold, to Monsanto Chemicals Limited. Extrusion of resins. 3,467,570, 9-16-69, Cl. 161-165.

Baxter, Stanley V., to Orcco Industries, Inc. Roll embossing machine for plastic needled carpet. 3,471,897, 10-14-69, Cl. 18-10.

Baxter, Warren Nesmith; and Robinson, Ivan Maxwell, to Du Pont de Nemours, E. I., and Company. Polymerization of unconjugated alkadienes into linear polymers. 3,472,830, 10-14-69, Cl. 260-94.2

Bay, Theodosios; Chen, Tai Seng; and Schwartzenberg, John W., to Leeds & Northrup Company. System for feed blending control. 3,473,008, 10-14-69, Cl. 235-151.12

Bay-Stahlgewebe GmbH: *See*—
Walz, Paul Otto Kurt; Van Schyndel, Andreas; and Pasberg, Max, 3,437,017.

Bayard, Frank W., Jr., to Hilton, H. H., Inc. Machine for manufacturing capacitors. 3,473,750, 10-21-69, Cl. 242-56.1

Bayard, Thomas J. Simulated motor device for attaching to a vehicle. 3,439,926, 4-22-69, Cl. 280-1.11

Bayati, Abutorab; Peiser, Rudolf; and Schefter, Lothar, to Siemens Aktiengesellschaft. Arrangement for the transmission of measured variable produced by the current flowing in a high- voltage line from the high-voltage side to the low- voltage side. 3,461,384, 8-12-69, Cl. 324-96.

Bayer Aktiengesellschaft: *See*—
Peter Van Dillen, Paul Joan; Vollmer, Eva Maria; Kallfass, Herbert; and Zimmermann, Max, 3,428,488.

Bayer, Christian, to Tiros Plastics Corporation. Tap box. 3,426,890, 2-11-69, Cl. 206-17.

Bayer, Ernst. Complex-forming polyester prepared from glyoxal-bis-(2-mercapto-4-hydroxy-anil). 3,458,476, 7-29-69, Cl. 260-47.

Bayer, Ernst. Complex-forming poly-Schiff's bases. 3,481,904, 12-2-69, Cl. 260-72.

Bayer, Gerhard, to Owens-Illinois, Inc. Process for preparing indium and scandium antimonates. 3,449,064, 6-10-69, Cl. 23-20.

Bayer, Herbert, to Wandel u. Goltermann KG. System for giving calibrated amplitude indications. 3,461,385, 8-12-69, Cl. 324-130.

Bayer, Herbert, to Wandel & Goltermann. Frequency-selective signal-transmission system with linearity-testing means. 3,480,862, 11-25-69, Cl. 324-130.

Bayer, Herbert, to Wandel u. Goltermann KG. System for giving calibrated amplitude indications. 3,486,112, 12-23-69, Cl. 324-130.

Bayer, Horst O.; Lewis, Sheldon N.; and Unger, Victor H., to Rohm & Haas Company. Phosphoric triamide derivatives. 3,468,946, 9-23-69, Cl. 260-543.

Bayer, Horst O.; and Unger, Victor H., to Rohm & Haas Company. Phosphoric triamidederivatives as herbicides. 3,433,623, 3-18-69, Cl. 71-86.

Bayer, Johann Wolfgang, to Hilti Aktiengesellschaft. Fastener driving tool. 3,424,361, 1-28-69, Cl. 227-10.

Bayer, John W.; Gagnon, Donald W.; and Grinonneau, William C., to Owens-Illinois, Inc. Polymerization catalyst containing vanadium , phosphorus and aluminum. 3,427,257, 2-11-69, Cl. 252-431.

Bayer, John W.; Gagnon, Donald W.; Grinonneau, William C.; and Santiago, Edgardo, to Owens-Illinois, Inc. Catalyst comprising (1) reaction product of a vanadium oxide and organic phosphorous compound, (2) a hydrocarbyl silane and a halo-aluminum compound, and polymerization. 3,476,732, 11-4-69, Cl. 260-94.3

Bayer, John W.; and Santiago, Edgardo, to Owens-Illinois, Inc. Three-component catalytic system including a tetrasubstituted hydrocarbyl silane, and method for the polymerization of olefins. 3,440,179, 4-22-69, Cl. 252-429.

Bayer, Otto: *See*—
Dieterich, Dieter; and Bayer, Otto,3,479,310.
Dieterich, Dieter; Muller, Erwin; and Bayer, Otto,3,480,592.
Freytag, Helmut; Reichold, Ernst; Bayer, Otto; Bockmann, Walter; and Wagner, Jochim,3,425,985.
Heydkamp, Wolfgang; Bayer, Otto; and Muller, Erwin,3,471,449.
Keberle, Wolfgang; Dieterich, Dieter; and Bayer, Otto,3,461,103.
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann,3,428,577.
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann,3,428,578.

Bayer, Otto; Schrotter, Rudolf; Siefken, Werner; and Wagner, Kuno, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane 1,2-di (isocyanatomethyl) cyclobutane. 3,437,609, 4-8-69, Cl. 260-2.5
Wagner, Kuno; Bayer, Otto; and Schroter, Rudolf,3,441,588.

Bayer, Walter, to Mannesmann Aktiengesellschaft. Rolling of slabs. 3,425,254, 2-4-69, Cl. 72-198.

Bayer, Wolfgang; and Rangger, Herbert, to Hilti Aktiengesellschaft. Explosive driven stud setting apparatus for use in hard-to-reach places. 3,482,753, 12-9-69, Cl. 227-10.

Bayerische Motoren Werke A.G.: *See*—
Apfelbeck, Ludwig, 3,424,143.
Gebler, Eugen, 3,462,168.

Bayerische Wollfilzfabriken KG: *See*—
Dietrich, Johann, 3,452,413.

Bayerisches Leichtmetallwerk Graf Blucher von Wahlstatt K.G.: *See*—
Schober, Franz, 3,453,409.

Bayerl, Joseph James; deDecker, Hendrik Kamiel; and Lee, Ying Kao, to Texas-U.S. Chemical Company. Room temperature curable liquid conjugated diene compositions. 3,433,759, 3-18-69, Cl. 260-33.6

Bayersdorfer, Werner: *See—*
Burkart, Hermann; Dorner, Harro; and Bayersdorfer, Werner,3,447,568.

Bayha, Jack E., to Transmarine Corporation. Photoelectric document tester using light beams of complementary color. 3,436,552, 4-1-69, Cl. 250-219.

Bayha, Jack E., to Transmarine Corporation. Nonmonetary vending token and verification apparatus. 3,440,606, 4-22-69, Cl. 340-149.

Bayha, Jack E., to Transmarine Corporation. Radiation sensitive paper security validation apparatus. 3,457,421, 7-22-69, Cl. 250-219.

Bayha, Jack E., to Transmarine Corporation. Paper security validation apparatus. 3,462,225, 8-19-69, Cl. 356-71.

Bayha, Jack E., to Transmarine Corporation. Scrip for use with paper security validation apparatus. 3,471,172, 10-7-69, Cl. 283-8.

Bayles, Fred R., to LTV Electrosystems, Inc. Fluid actuator. 3,463,055, 8-26-69, Cl. 92-26.

Bayles, John J., to United States of America, Navy. Apparatus for mooring instruments at a predetermined depth. 3,471,877, 10-14-69, Cl. 9-8.

Bayless, Frank K.; and Robinson, Hugh A., to United Shoe Machinery Corporation, mesne. Power devices having reversible drive. 3,451,495, 6-24-69, Cl. 180-19.

Bayless, James A.; and Gruhn, Earl F., to Swedlow Inc. Method of wrapping bias cut tape under longitudinal tension. 3,420,721, 1-7-69, Cl. 156-162.

Bayless, James C. Snap on bail for buckets. 3,480,317, 11-25-69, Cl. 294-31.

Bayley, Donald: *See—*
Broom, Ronald Francis Johnston; Hilsum, Cyril; Bayley, Donald; and Ralphs, John Dennis,3,443,109.

Bayley, Graham Edward: *See—*
Bellinger, Ronald; and Bayley, Graham Edward,3,463,333.

Bayley, Graham Edward; and Lott, William R., to Dore, John L., Co. Method of lining tubular members. 3,462,825, 8-26-69, Cl. 29-451.

Baylin, Henry: *See—*
Baylin, Jack, 3,472,489.

Baylin, Jack, 33 1/3% to Baylin, Henry, and 33 1/3% to Baylin, Samuel. Baluster jackets. 3,472,489, 10-14-69, Cl. 256-22.

Baylin, Samuel: *See—*
Baylin, Jack, 3,472,489.

Baylis, Eric Keith; Pickles, Wilfred; and Sparrow, Kenneth David, to Geigy Chemical Corporation. Process for producing dicarboxylic acids. 3,441,604, 4-29-69, Cl. 260-533.

Baylis, Howard Raymond: *See—*
Tiefenthal, Josef Maria Herbert; and Baylis, Howard Raymond,3,464,331.

Baylon, Charles A.: *See—*
Wagner, Wesley R.; and Baylon, Charles A.,3,439,815.

Baylor, Harry N., to Union Carbide Corporation. Production of isocyanates. 3,457,291, 7-22-69, Cl. 260-453.

Bayly, Inc.: *See—*
Wagner, William H., 3,482,266.

Bayly, John G., to United States of America, Atomic Energy Commission. Fog density measurement by X-ray scattering. 3,470,372, 9-30-69, Cl. 250-43.5

Baynard, Joseph S., Jr., to Western Electric Company, Incorporated. Pulse generator employing two sequentially gated monostable multivibrators and delay circuit. 3,426,218, 2-4-69, Cl. 307-265.

Bayne, Donald E.: *See—*
Anderson, Robert I.; and Bayne, Donald E.,3,459,107.
Anderson, Robert I.; and Bayne, Donald E.,3,466,048.

Bayne, Peter D.; and Pahlow, John L., to Schlitz, Jos., Brewing Company. Process of brewing. 3,453,114, 7-1-69, Cl. 99-52.

Bayne, Peter D.: *See—*
Kozulis, Joseph A.; and Bayne, Peter D.,3,484,244.

Baynes, William R.; Marason, Gabriel, Jr.; and Barcus, Jack L., to Mattel, Inc. Tone arm resetting means for a phonograph toy. 3,484,828, 12-16-69, Cl. 274-15.

Bayrd, Richard O.: *See—*
Tuinila, Raymond P.; and Bayrd, Richard O.,3,441,933.

Bays, Fernand, to Vidosa S.A. Apparatus for receiving upon an elevationally displaceable table a stack of flat material. 3,445,106, 5-20-69, Cl. 271-61.

Bays, Fernand, to Vidosa S.A. Apparatus for feeding sheets from a stack to a processing machine. 3,466,028, 9-9-69, Cl. 271-11.

Bayssat, Michel: *See—*
Szarvasi, Etienne; and Bayssat, Michel,3,440,250.
Szarvasi, Etienne; and Bayssat, Michel,3,458,529.

Bazhenov, Petr Dmitrievich; Orekhanov, Voleslav Zakharovich; Rubets, Vladimir Gavrilovich; and Failkovsky, Vladimir Ivanovich, to Anapsky Vinzavod. Automatic must fermentation plant. 3,486,437, 12-30-69, Cl. 99-276.

Bazin, Lucas J., to RCA Corporation. Remote control for deflection system of a television camera. 3,463,962, 8-26-69, Cl. 315-24.

Bazinet, Wilfred P., Jr., to American Optical Corporation, mesne. Method of making laser components. 3,455,666, 7-15-69, Cl. 65-4.

Bazinet, Wilfred P., Jr.: *See—*
Snitzer, Elias; Bazinet, Wilfred P., Jr.; and Hwalek, David C.,3,455,667.

Bazouin, Andre Rene Marcel; Dunogues, Jacques Paul; and Lefort, Marcel Joseph Celestin, to Rhone-Poulenc S.A. Preparation of vinyloxy containing organosilicon compounds. 3,472,888, 10-14-69, Cl. 260-448.8

Bazouin, Andre Rene Marcel; and Lefort, Marcel Joseph Celestin, to Rhone-Poulenc S.A. Process for the separation of organotrichlorosilanes. 3,441,584, 4-29-69, Cl. 260-448.2

Beach, Earl F., to Westinghouse Electric Corporation. Load break circuit interrupter utilizing adsorbed gas evolved from series-connected activated carbon. 3,449,536, 6-10-69, Cl. 200-148.

Beach, J. M., Manufacturing, Inc.: *See—*
Beach, John M.; Cecil, Harry H.; White, Arthur R.; and Ziegler, George S., 3,423,104.

Beach, James R., to Hooker Chemical Corporation. Composition and process for cleaning and coating metal surfaces. 3,450,577, 6-17-69, Cl. 148-6.15

Beach, James R., to Hooker Chemical Corporation. Process and composition for cleaning and coating metal surfaces. 3,484,304, 12-16-69, Cl. 148-6.15

Beach, John M.; Cecil, Harry H.; White, Arthur R.; and Ziegler, George S., to Beach, J. M., Manufacturing, Inc. Vehicle wheel steering apparatus. 3,423,104, 1-21-69, Cl. 280-96.1

Beach, John M.: *See—*
White, Arthur R.; and Beach, John M.,3,460,654.

Beach, John R., to Signode Corporation. Strap tension buckle. 3,447,208, 6-3-69, Cl. 24-23.

Beach, Joseph L.; and Jackson, Winston J., Jr., to Eastman Kodak Company. Process for purifying polycarbonates. 3,437,639, 4-8-69, Cl. 260-47.

Beach, Paul L., to Proteus Foods & Industries, Inc. Preparation of a proteinaceous food salad. 3,454,405, 7-8-69, Cl. 99-188.

Beach, Richard G., to Taylor Instrument Companies. Lever device. 3,420,147, 1-7-69, Cl. 92-37.

Beach, Willard C., deceased; and Beach, Mary B.,0 (by National Bank and Trust Company of Central Pa.; administrator). Shaft thimble and strap for racing harness. 3,445,989, 5-27-69, Cl. 54-2.

Beacham, Francis W., to Clement, J. W., Company. High speed web-fed rotary printing press with drier and chill roll. 3,442,211, 5-6-69, Cl. 101-416.

Beacham, Harry H.; Segro, Nicholas R.; and Thomas, James L., to FMC Corporation. Flame-retardant resinous compositions. 3,483,158, 12-9-69, Cl. 260-41.

Beacham, Harry Hoyt; Kreinik, Jerry M.; and Thomas, James Larue, to FMC Corporation. Transparent reinforced compositions containing diallyl phthalate prepolymers. 3,441,535, 4-29-69, Cl. 260-40.

Beachem, Michael Thomas: *See—*
Megson, Frederic Houghton; Beachem, Michael Thomas; and Stockel, Richard Frederick,3,456,010.

Beachem, Michael Thomas, to American Cyanamid Company. Oil and water repellent textiles. 3,431,140, 3-4-69, Cl. 117-121.
Megson, Frederic H.; and Beachem, Michael T.,3,464,847.
O'Brien, Samuel J.; Beachem, Michael T.; and Megson, Frederic H.,3,482,927.

Beachler, Edward D., to Beloit Corporation. Paper machine press with reverse rotation lump clearing roll. 3,483,079, 12-9-69, Cl. 162-272.

Beachler, Edward D.: *See—*
Denoyer, Donald B.; and Beachler, Edward D.,3,443,295.

Beacon Steel Products Company, Inc.: *See—*
Scott, Robert A.; Reese, Richard R.; and Scott, David A., 3,485,215.

Beadle, Anthony Crisp; and Garner, William, to International Standard Electric Corporation. Carbon filling method and machine. 3,433,276, 3-18-69, Cl. 141-12.

Beadle, William E.; and Benson, Kenneth E., to Bell Telephone Laboratories, Incorporated. Significant impurity sources for solid state diffusion. 3,473,980, 10-21-69, Cl. 148-189.

Beagles, John A.: *See—*
Bunton, William J.; Beagles, John A.; and Good, Dale E.,3,430,349.

Beahm, Robert B.; and Grader, Jerome E., to Crown Cork & Seal Company, Inc., mesne. Fluid proportioning and blending system. 3,474,815, 10-28-69, Cl. 137-101.19

Beake, Frederick A., to Sanders Nuclear Corporation. High temperature resistance heater. 3,457,390, 7-22-69, Cl. 219-544.

Beal, John O.: *See—*
Gray, Robert P.; and Beal, John O.,3,485,083.

Beal, Keith F., to Sanford Research Company. Marking element and method of making same. 3,464,775, 9-2-69, Cl. 401-199.

Beal, Philip F., III; Lincoln, Frank H., Jr.; and Pike, John E., to Upjohn Company, The. Cyclopenta [β] pyrans. 3,435,053, 3-25-69, Cl. 260-345.2

Beale, Alvin F., Jr.; and Donnell, Luke W., to Dow Chemical Company, The. Fractionation of polyamines. 3,452,097, 6-24-69, Cl. 260-583.
Beale, Edwin W., to Compotite Shower Pan. Sealing device for shower threshold. 3,451,178, 6-24-69, Cl. 52-210.
Beale, James, to Foseco International Limited. Sand moulding mixtures. 3,440,066, 4-22-69, Cl. 106-38.35
Beale, Julian Robert Anthony; and Beer, Andrew Francis, to U.S. Philips Corporation. Igfet with interdigital source and drain and gate with limited overlap. 3,449,648, 6-10-69, Cl. 317-235.
Beale, Stanley E., to Scanbe Manufacturing Corporation. Printed circuit board ejection and locking mechanism. 3,451,034, 6-17-69, Cl. 339-17.
Beall, Glenn L.: *See*—
Fields, Mack R.; Roehr, Zbislaw M.; and Beall, Glenn L.,3,455,478.
Beall, Horace A., Jr.; Cross, James V.; and Gow, Kenneth P., to North American Rockwell Corporation. Time reference angle encoder using radiation sensitive means. 3,458,709, 7-29-69, Cl. 250-231.
Bealor, Jesse L., Jr.: *See*—
Cook, Rufus L.; and Bealor, Jesse L., Jr.,3,474,402.
Beals, Duane E.; Berchtold, Donald R.; O'Brien, James W.; Rosenberger, Paul C.; Sieving, Alfred W.; and Smith, Kerwyn B., to Caterpillar Tractor Company. Limit system for motor grader blade controls. 3,448,816, 6-10-69, Cl. 172-793.
Beals, Eugene C. Boat trimmer. 3,456,610, 7-22-69, Cl. 114-66.5
Beals, George C.; Ogilvie, Kendal M.; and Mulholland, Lyle E., to Kennecott Copper Corporation. Oxygen lance. 3,436,068, 4-1-69, Cl. 266-34.
Beals, John Alden, to Pressure Systems, Inc. Headbox shower apparatus. 3,458,135, 7-29-69, Cl. 239-222.11
Beals, Raymond S.: *See*—
Reardon, Daniel E.; Wallace, Richard W.; and Beals, Raymond S.,3,438,615.
Beam, Edwin A.: *See*—
Ritter, George E.; and Beam, Edwin A.,3,452,915.
Beam, Harry L.; Berube, Warren A.; and Dobslaw, Gerhardt A., to Rockwell Manufacturing Company. Power-operated tool. 3,454,143, 7-8-69, Cl. 192-34.
Beam, Robert A.: *See*—
Herrick, Donald W.; and Beam, Robert A.,3,423,155.
Beam, Theodore E.: *See*—
Alldritt, Donald H.; and Beam, Theodore E.,3,478,342.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, to Hoffmann-La Roche Inc. 1-Substituted-2-nitroimidazole derivatives. 3,468,902, 9-23-69, Cl. 260-309.
Beaman Corporation: *See*—
Bransford, Ernest O., Jr., 3,456,406.
Beaman, Norman V., to Par-Way Mfg. Co. Apparatus for greasing baking pans. 3,424,128, 1-28-69, Cl. 118-314.
Beaman, Norman V., to Par-Way Mfg. Co. Electric switch operating and mounting means. 3,426,165, 2-4-69, Cl. 200-61.41
Beamco, Inc.: *See*—
Breslin, John J., 3,465,111.
Bean, Arthur R., Jr.: *See*—
Moss, Fred Dudley; and Bean, Arthur R., Jr.,3,465,065.
Bean, Carmon J. Magnetic filtration of transmission fluid. 3,463,729, 8-26-69, Cl. 210-42.
Bean, Charles P., to General Electric Company. Electrokinetic transducer with ion scavenging. 3,424,953, 1-28-69, Cl. 317-231.
Bean, Charles P., to General Electric Company. Process for filling pores. 3,483,095, 12-9-69, Cl. 204-15.
Bean, Charles P.: *See*—
Rodbell, Donald S.; and Bean, Charles P.,3,474,426.
Bean, Claude Thomas, Jr.: *See*—
Dorfman, Edwin; and Bean, Claude Thomas, Jr.,3,420,884.
Witschard, Gilbert; and Bean, Claude Thomas, Jr.,3,462,407.
Bean, Edward C.; and Rhodes, Laddie T. Mounting device for electronic equipment. 3,429,534, 2-25-69, Cl. 248-25.
Bean, Fredrick D., to General Electric Company. Blade retainer. 3,479,009, 11-18-69, Cl. 253-77.
Bean, Kenneth E.; and Gleim, Paul S., to Texas Instruments, Incorporated. Structure and method for preventing spurious growths during epitaxial deposition of semiconductor material. 3,421,055, 1-7-69, Cl. 317-234.
Bean, Lloyd F.; and Gundlach, Robert W., to Xerox Corporation. Frost imaging employing a deformable electrode. 3,443,938, 5-13-69, Cl. 96-1.1
Bean, Lloyd F.: *See*—
Gundlach, Robert W.; and Bean, Lloyd F.,3,445,226.
Bear Archery Company: *See*—
Stewart, William R., 3,434,465.
Bear Manufacturing Company: *See*—
Blazek, William J., 3,442,164.
MacMillan, Charles W., 3,443,318.
Beard, Bramlet L.: *See*—
Huffaker, James Edward; and Beard, Bramlet L.,3,420,663.
Beard, Chester E. Means for carrying and cleaning golf balls. 3,462,230, 8-19-69, Cl. 401-11.
Beard, Colin C.; and Cross, Alexander D., to Syntex Corporation. 6,7-Methylene and 6,7-halomethylene pregnanes and 19-norpregnanes and process for their preparation. 3,438,977, 4-15-69, Cl. 260-239.55
Beard, Colin C.; and Cross, Alexander D., to Syntex Corporation. 11-Substituted, 16α,17α-difluoromethylene steroids of the pregnane series. 3,457,285, 7-22-69, Cl. 260-397.45
Beard, Colin C.; and Cross, Alexander D., to Syntex Corporation. 16α,17α-Difluoromethylene derivatives of the pregnane series. 3,478,066, 11-11-69, Cl. 260-397.3
Beard, Franklin; and Green, William G. Fuel generator. 3,447,511, 6-3-69, Cl. 123-3.
Beard, Jack H.; Hoole, Harold; and Hayes, Allan, to Davy and United Engineering Company Limited. Rolling mills. 3,438,996, 4-15-69, Cl. 72-239.
Beard, Kenneth R., to Square D Company. Captive screw assembly. 3,472,303, 10-14-69, Cl. 151-69.
Beard, Ralph L.; and Hester, James F., to Hanes Corporation. Garment construction. 3,449,765, 6-17-69, Cl. 2-113.
Beard, Rex E., to Eberline Instrument Corporation. Pulse rate to current converting and linear log indicating. 3,445,767, 5-20-69, Cl. 324-78.
Beard, Verna M. Domestic centrifugal separator. 3,465,956, 9-9-69, Cl. 233-23.
Beard, Walter C., Jr.; and Kotuby, Paul M., to Risdom Manufacturing Company, The. Aerosol valve actuator button. 3,446,478, 5-27-69, Cl. 251-297.
Bearden, Roby, Jr; and Aldridge, Clyde L., to Esso Research and Engineering Company. Phosphorylation of hydrocarbon resins. 3,427,293, 2-11-69, Cl. 260-82.
Beardmore, James W.: *See*—
Lorensen, Lyman E.; Beardmore, James W.; and Fowkes, Frederick M.,3,475,393.
Beards, William A.: *See*—
McIntyre, Alan H.; and Beards, William A.,3,451,080.
Beardsley, Albert L., to General Aniline & Film Corporation. Spindle adaptor. 3,482,794, 12-9-69, Cl. 242-68.3
Beardsley, Melville W. Air-cushion vehicle with flexible skirt. 3,429,395, 2-25-69, Cl. 180-117.
Beare, Leonard E.; Matson, Howard J.; and Nelson, John W., to Sinclair Research, Inc. Sulfurized and phosphorized extreme pressure agents. 3,455,844, 7-15-69, Cl. 252-46.6
Bearer, Gerald L., to Wilson, Lee, Engineering Company. Leveler. 3,420,082, 1-7-69, Cl. 72-163.
Bearer, Gerald L., to Wilson, Lee, Engineering Company, Inc. Quench press. 3,467,367, 9-16-69, Cl. 266-6.
Bearer, Louis C., to Phillips Petroleum Company. Method of forming wrapped tubing from oriented polymer film while maintaining orientation. 3,475,245, 10-28-69, Cl. 156-162.
Beares, Allen G.: *See*—
Beckering, Jacobus J.; and Beares, Allen G.,3,474,575.
Duran, Raymond J.; and Beares, Allen G.,3,485,017.
Bearings, Seals & Gears, Inc.: *See*—
Cain, Earl S.; Carlson, Jerome A.; and Goodrich, George E., 3,466,697.
Bearint, David E., to Crane Co. Cascade absorption refrigeration system. 3,483,710, 12-16-69, Cl. 62-79.
Beart, Robert W., to Illinois Tool Works Inc. Can carrier. 3,463,535, 8-26-69, Cl. 294-87.28
Beas, Urban J., to MacGregor-Comarain, Incorporated. Retractable rig for operating hatch covers. 3,465,807, 9-9-69, Cl. 160-188.
Beasley, Augustus Earl, Jr.: *See*—
Cowan, Jack C.; Beasley, Augustus Earl, Jr.; Jordan, John W.; Finlayson, Claude Malcolm; and Sterns, Robert O.,3,425,953.
Beasley, Neil D.; Whitehurst, Gerald E.; Saletzki, Jacob S.; Lofthouse, Fred R.; and Weber Robert L., to United States of America, Army, mesne. Interchangeable dual gear train assemblies. 3,452,610, 7-1-69, Cl. 74-15.2
Beason, Elmer C.; and Mader, George E., Jr., to Phillips Petroleum Company. Cutting and heat sealing thermoplastic film. 3,450,587, 6-17-69, Cl. 156-389.
Beason, Elmer C.: *See*—
Eddy, William R.; Phillips, Lawrence D.; and Beason, Elmer C.,3,430,528.
Beatenbough, Paul K.; Hutchins, Ward H.; and Orcutt, John W., to General Motors Corporation. Poloted vacuum actuator. 3,448,659, 6-10-69, Cl. 91-49.
Beatenbough, Paul K.; and Richards, Gary E., to General Motors Corporation. Vacuum control system. 3,476,018, 11-4-69, Cl. 91-419.
Beatenbough, Paul K.; and Weiss, Walter W., to General Motors Corporation. Compartment temperature control system and thermostatic vacuum regulator. 3,455,505, 7-15-69, Cl. 236-87.
Beatrice Foods Co.: *See*—
Bard, Elmer H., 3,452,379.
Bundus, Robert H., 3,428,231.
Bundus, Robert H.; and Luksas, Anthony J., 3,466,174.
Bundus, Robert H.; and Luksas, Anthony J., 3,466,176.
Bundus, Robert H.; and Luksas, Anthony J., 3,466,177.
Bundus, Robert H.; and Luksas, Anthony J., 3,485,641.
Fraser, Robert F., 3,486,697.

Luksas, Anthony J.; and Bundus, Robert H., 3,449,132.
McMiller, Urban C., 3,476,162.
Noznick, Peter P.; and Tater, Charles W., 3,443,960.
Noznick, Peter P.; Bundus, Robert H.; and Luksas, Anthony J., 3,446,627.
Noznick, Peter Paul; and Tatter, Charles W., 3,445,244.
Tatter, Charles W.; and Noznick, Peter P., 3,421,904.
Tatter, Charles W.; and Noznick, Peter P., 3,433,643.

Beattie, David Lloyd George: *See—*
Willis, Robin Burke; Beattie, David Lloyd George; and Swann, Ferris,3,481,118.

Beattie, John Reginald, to Pilkington Brothers Limited. Method of and apparatus for toughening glass. 3,469,963, 9-30-69, Cl. 65-115.

Beattie, John Reginald; and Ogilvie, Alan Graham, to Pilkington Brothers Limited. Reflection testing apparatus which detects pits in sheet material. 3,427,109, 2-11-69, Cl. 356-237.

Beattie, Walter R.: *See—*
Charman, Walter M., Jr.; and Beattie, Walter R.,3,430,682.

Beattie, Willard H., to Beckman Instruments, Inc. Radiation sensitive nuclei detector for solutions. 3,462,609, 8-19-69, Cl. 250-218.

Beattly, Charles W.: *See—*
Peoples, Leo C.; and Beattly, Charles W.,3,432,483.

Beatty, Earl C.; and Howard, Frank L., to Kaiser Aluminum & Chemical Corporation. Aluminum alloy for color anodizing. 3,475,167, 10-28-69, Cl. 75-147.

Beatty, Huston M. All-weather marker device. 3,468,047, 9-23-69, Cl. 40-10.

Beatty, Ronald L.; and Kiplinger, Dale V., to United States of America, Atomic Energy Commission. Pyrolytic carbon coating process. 3,471,314, 10-7-69, Cl. 117-46.

Beaty, Lois B. Insulated container for infant food. 3,478,866, 11-18-69, Cl. 206-4.

Beaudion, John E., to Electro-Clamp Corporation, mesne. Electrical connector with wire-gripping means. 3,437,979, 4-8-69, Cl. 339-95.

Beaudoin, Clifford S.; and Kokkeler, Donald C. Advertising display device. 3,457,663, 7-29-69, Cl. 40-129.

Beaudry, Harvey James, to Laboratory for Electronics, Inc. Impedance matching network for gas reaction apparatus. 3,436,333, 4-1-69, Cl. 204-312.

Beaudry, Harvey J.; and Bersin, Richard L., to Laboratory for Electronics, Inc. Carbon coating employing electromagnetic field. 3,485,657, 12-23-69, Cl. 117-46.

Beaudry, Russell G.; and Palm, Bernhard N., to Reuland Electric Company. Multirotor induction motor. 3,445,699, 5-20-69, Cl. 310-125.

Beaufour, Albert: *See—*
Leroi, Eugene; Beaufour, Albert; and Beaufour, Gerald,3,462,437.

Beaufour, Gerald: *See—*
Leroi, Eugene; Beaufour, Albert; and Beaufour, Gerald,3,462,437.

Beaulieu, Adrian A.; McKenney, James L.; Megley, James W.; and Munroe, Lawrence M., to Beaulieu-Munroe Corporation. Hydronic-electric heating systems. 3,422,248, 1-14-69, Cl. 219-281.

Beaulieu, Marcel. Systems for regulating the speed of direct- current motors and applications thereof. 3,443,187, 5-6-69, Cl. 318-327.

Beaulieu-Munroe Corporation: *See—*
Beaulieu, Adrian A.; McKenney, James L.; Megley, James W.; and Munroe, Lawrence M., 3,422,248.

Beaumariage, Andre: *See—*
Brabon, Roger; Beaumariage, Andre; De Boeck, Willy; De Broeyer, Roland; Delplancke, Firmin; and Van Innis, Marcel,3,465,097.

Beaumont, David H.; and Friedman, Arnold I., to General Electric Company. Lamp phosphor adherence. 3,424,605, 1-28-69, Cl. 117-33.5

Beaumont, Richard W.: *See—*
Bailey, Edward A.; and Beaumont, Richard W.,3,446,294.

Beaupre, Jean L. House anchorage. 3,449,874, 6-17-69, Cl. 52-149.

Beauregard, William W.; and Brisson, Edgar H., to United States of America, National Aeronautics and Space Administration, under provisions of 42 U.S.C. 2457 (d). Water separating system. 3,455,121, 7-15-69, Cl. 62-268.

Beauvais, Rene G., to Resistance Welder Corporation. Method of forming a wire condenser mat welder. 3,460,225, 8-12-69, Cl. 29-157.3

Beauval, Jean-Jacques; Duhem, Jean; and Pacchioni, Antenore, to Commissariat a l'Energie Atomique. Method and apparatus for producing high-speed translational movement. 3,427,927, 2-18-69, Cl. 91-36.

Beaver, Bud K.; and Burlem, William S. Solder wire feed mechanism. 3,437,252, 4-8-69, Cl. 228-53.

Beaver, Emil R., Jr., to Monsanto Research Corporation. Incased graphite segmented thermoelement. 3,434,888, 3-25-69, Cl. 136-203.

Beaver, Emil R., Jr.: *See—*
Henderson, Courtland M.; Beaver, Emil R., Jr.; and Reitsma, Louis J., Jr.,3,467,555.

Beaver Precision Products, Inc.: *See—*
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J., 3,421,351.
Newman, William G., 3,467,447.
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J., 3,468,146.

Beaver, Ruby C.; and Wood, Fenton M., to American Machine & Foundry Company. Pipeline inspection apparatus with means for correlating the recorded defect signals with the angular position within the pipeline at which they were generated. 3,460,028, 8-5-69, Cl. 324-37.

Beaver, Ruby C.: *See—*
Crouch, Alfred E.; and Beaver, Ruby C.,3,483,466.

Beavers, Dorothy J.; Wilson, Charles V.; and Allen, Charles F. H., to Eastman Kodak Company. Polyfunctional polyalkyleneglycols and their polyquaternary ammonium salts. 3,426,029, 2-4-69, Cl. 260-294.8

Beavers, Ellington M.; and Koroly, Joseph E., to Rohm & Haas Company. Method of epoxidation using phosphoric acid catalyst. 3,448,125, 6-3-69, Cl. 260-348.5

Beavers, Jack. Heat treatment furnace. 3,469,831, 9-30-69, Cl. 266-4.

Beavers, Leo E.; and Bush, Walter M., to Eastman Kodak Company. Dye diffusion transfer process and element. 3,445,228, 5-20-69, Cl. 96-3.

Beavitt, Alan R., to Plessey Company Limited, The. Vacuum evaporation processes. 3,440,874, 4-29-69, Cl. 73-150.

Beavon, David K.; and Jentz, Norman E., to Parsons, Ralph M., Company, The. Method for cooling viscous fluids. 3,444,075, 5-13-69, Cl. 208-347.

Beazley, Edward H., to Burton's Seafood, Inc. Apparatus and method for advancing objects to gauging slots. 3,455,446, 7-15-69, Cl. 209-98.

Beazley, Rodney Thomas, to Glacier Metal Company Limited, The. Centrifugal fluid cleaners. 3,432,091, 3-11-69, Cl. 233-1.

Beazley, Rodney Thomas; and Armstrong, Robert Hunter Thynne, to Glacier Metal Company Limited, The. Method of making a joint of the ball and socket type. 3,452,415, 7-1-69, Cl. 29-149.5

Bebb, Robert L.; and Kay, Edward L., to Firestone Tire & Rubber Company, The. Process for purifying butadiene stream. 3,423,385, 1-21-69, Cl. 260-94.2

Bebb, Robert L.; and Kay, Edward L., to Firestone Tire & Rubber Company, The. Removal of alkyne impurity from butadiene-1,2. 3,458,591, 7-29-69, Cl. 260-681.5

Bebbington, John, Jr.; and Cozzarin, Edward, to Borg-Warner Corporation, mesne. Composite drive wheel. 3,469,465, 9-30-69, Cl. 74-243.

Bebech, Michael J. Multiple filter element cleaning means. 3,482,700, 12-9-69, Cl. 210-332.

Bebinger, Jack E., to General Electric Company. Motor winding control embodying a fluid amplifier. 3,423,659, 1-21-69, Cl. 318-221.

Bebruder Einfalt, Blechspielwarenfabrik: *See—*
Einfalt, Alfred, 3,456,382.

Bechan, William H.; and Winsor, Jack O., to Westinghouse Air Brake Company. Fluid control system. 3,448,576, 6-10-69, Cl. 60-52.

Bechard, John J.; Dahl, Walter L.; Martin, James S.; Workman, Clark S.; and Sankey, David J., to Remington Arms Company, Inc. Bayonet adapter and magazine extension tube. 3,445,951, 5-27-69, Cl. 42-86.

Becheiraz, Joseph: *See—*
Frauchiger, Ulrich; and Becheiraz, Joseph,3,457,898.

Bechem, Karl Gunter. Cutting roller in particular for roller-type enlarging bits. 3,444,939, 5-20-69, Cl. 175-334.

Bechlars, Franz: *See—*
Wolf, Karlheinz; Haus, Arthur; Mager, Theodor; Hornle, Reinhold; and Bechlars, Franz,3,458,804.

Bechler, Horst, to International Standard Electric Corporation. Circuit arrangement for relays. 3,423,639, 1-21-69, Cl. 317-123.

Becht, Carl T., to Senco Products, Incorporated. Pneumatic fastener applying device. 3,477,629, 11-11-69, Cl. 227-130.

Becht, Carl T., to Senco Products, Incorporated. Nail package. 3,478,872, 11-18-69, Cl. 206-56.

Becht, Carl T., to Senco Products Incorporated. Nails in strip form. 3,481,459, 12-2-69, Cl. 206-56.

Becht, George L.: *See—*
Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L.,3,451,724.

Bechtel International Corporation: *See—*
Freeborg, Robert M., 3,445,012.
Goerz, David J., Jr., 3,475,827.
Koupal, Jerome R., 3,474,266.
Schreiber, Henry; Goerz, David J., Jr.; Hankin, Jerome W.; and Stephansen, Erik W., 3,449,836.

Bechthold, Horst: *See—*
Baron, Gerhard; Ehrhardt, Erwin; and Bechthold, Horst,3,436,198.

Bechtle, Anton Josef Richard; and Roder, Georg, to Messer Griesheim G.m.bH. Torch carriage driving arrangement. 3,424,013, 1-28-69, Cl. 74-37.

Bechtloff, Gert, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Steep conveyor installation. 3,446,332, 5-27-69, Cl. 198-165.
Bechtloff, Gert; and Szonn, Reinhold, to Lemforder Kunststoff G.m.b.H., , Co. K.G., and Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Conveyor installation and conveyor belt system therefor. 3,429,420, 2-25-69, Cl. 198-165.
Bechtol, Lavon Dee; and Artandi, Charles, to Ethicon, Inc. Radiating tanned and untanned collagen prothesis with 5 to 25 megarads of ionizing radiation. 3,451,394, 6-24-69, Cl. 128-296.
Bechtold, Arthur W.; and Rizzo, Vincent J., to Chemway Corporation. Ophthalmic compostions containing alginic acid salts of pilocarpine atropine and physostigimine. 3,450,814, 6-17-69, Cl. 424-180.
Bechtold, Edwin W., to Ednalite Corporation, The. Focusing lens pain combined with photocopying objective. 3,436,145, 4-1-69, Cl. 350-215.
Bechtold, Edwin W., to Ednalite Corporation, The. Seven element lens system for electrophotographic reproduction of fluorescent images. 3,458,250, 7-29-69, Cl. 350-217.
Bechtold, James H.; and Somers, Edward V., to Westinghouse Electric Corporation. Variable resistance heating element. 3,454,748, 7-8-69, Cl. 219-553.
Bechtold, Max F.; and Brasen, Wallace R., du Pont de Nemours, E. I., and Company. Polysilicic acid tetrafluorcethylene secondary alcohol copolymer compositions. 3,429,846, 2-25-69, Cl. 260-29.6
Bechtold, Max F.; and Fawcett, Frank Shumate, du Pont de Nemours, E. I., and Company. Compositions comprising polysilisic acid and copolymers of fluorinated monomers with omega-hydroxyalkyl vinyl ethers. 3,429,845, 2-25-69, Cl. 260-29.6
Bechtoldt, Wayne A., to Barber Manufacturing Company, Inc. Spring-foam cushion. 3,425,068, 2-4-69, Cl. 5-353.
Beck & Co. (Meters) Limited: *See*—
Petyt, Colin Roderick; and Phillips, Hugh Edmund, 3,420,409.
Petyt, Colin Roderick, 3,429,480.
Beck & Company (Meters) Limited: *See*—
Absolon, Eric W.; and Bowman, George H., 3,478,927.
Petyt, Colin Roderick; and Phillips, Hugh Edmund, 3,486,662.
Beck, Alvin F., to Synchro Machine Company. Expanding arbor for wire spooling machine. 3,448,937, 6-10-69, Cl. 242-46.6
Beck, Andrew J., to Textron Inc. Method of and apparatus for changing rolls in a rolling mill. 3,443,410, 5-13-69, Cl. 72-239.
Beck, Bernard O. Projectile propelling spring gun. 3,474,770, 10-28-69, Cl. 124-26.
Beck, Charles K.; and Nohe, David L., to Reeves Industries, Inc. High temperature magnetic tape. 3,484,286, 12-16-69, Cl. 117-235.
Beck, Clarence J.; Birnby, Martin R.; and Lozier, Paul G., to United States of America, Atomic Energy Commission. Electrochemical etching of spiral lands. 3,429,798, 2-25-69, Cl. 204-206.
Beck, Dieter; and Schenker, Karl, to Ciba Corporation. 1-Tertiaryaminoalkyl-3-(4-pyridyl)-indoles. 3,429,886, 2-25-69, Cl. 260-294.8
Beck, Dr., & Co. GmbH.: *See*—
Schmidt, Karl; and Dannenbaum, Hans, 3,454,673.
Schmidt, Karl; and Neubert, Gerhard, 3,458,480.
Schmidt, Karl; Hansch, Ferdinand; and Rombrecht, Hans-Malte, 3,459,829.
Beck, Edward, to Crawford Fitting Company. Connector for electrical conductors. 3,447,122, 5-27-69, Cl. 339-200.
Beck, Edward: *See*—
Lennon, Fred A.; Zahuranec, Emery J.; Szohatzky, Zoltan; and Beck, Edward,3,447,405.
Beck Engraving Company, Inc., The: *See*—
Allison, Thomas K., 3,449,048.
Beck, Frederic E.; and Garelick, Eli L., to Transmation, Inc. Instrumentation circuit with D-C amplifier having temperature stabilization. 3,486,127, 12-23-69, Cl. 330-30.
Beck, Fritz: *See*—
Guthke, Harald; Wintersberger, Karl; Beck, Fritz; Floss, Josef Georg; and Habermann, Wolfgang,3,427,234.
Suter, Hubert; Nohe, Heinz; Beck, Fritz; and Hrubesch, Adolf,3,471,381.
Beck, Fritz; Leitner, Hans; Wintersberger, Karl; and Guthke, Harald, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrochemical hydrodimerization of acrylonitrile. 3,477,923, 11-11-69, Cl. 204-73.
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr., to International Business Machines Corporation. Chip placement head. 3,473,212, 10-21-69, Cl. 29-203.
Beck, George P.; and Brauch, Harold N., to Westinghouse Electric Corporation. Interleaved winding having a tapped section and switch. 3,452,311, 6-24-69, Cl. 336-70.
Beck, George P.; and Vargo, Stephen G., to Westinghouse Electric Corporation. Regulating transformer arrangement with tap changing means. 3,454,866, 7-8-69, Cl. 323-43.5
Beck, Gerhard: *See*—
Wesch, Ludwig; and Beck, Gerhard,3,427,619.
Beck, Hans. Cutting-welding device for thermoplastic synthetic foils. 3,420,727, 1-7-69, Cl. 156-498.
Beck, Heinz, to Techno-Chemie Kessler & Co., GmbH. Multilayer paper hose. 3,447,573, 6-3-69, Cl. 138-122.
Beck, Henry Nelson, to Dow Corning Corporation. Water sensitive silicone rubber. 3,455,872, 7-15-69, Cl. 260-41.
Beck, Herbert H.: *See*—
Phillips, Duane E.; Schultz, Roger C.; and Beck, Herbert H.,3,461,984.
Beck, Inc.: *See*—
Beck, William A.; and Kruke, William F., 3,440,676.
Beck, Jerry G., to Ford Motor Company. Process using rotating members to laterally stretch and restrain glass during float glass manufacturing. 3,468,652, 9-23-69, Cl. 65-91.
Beck, John B., to Radio Corporation of America. Deflection circuit with bidirectional trace and retrace switches. 3,441,791, 4-29-69, Cl. 315-27.
Beck, John Brewer: *See*—
McDonald, James A.; and Beck, John Brewer,3,424,941.
Beck, John Brewer, to Radio Corporation of America. Retrace driven deflection circuit with SCR switch. 3,423,630, 1-21-69, Cl. 315-27.
Beck, John C., to Bethea Company, Inc. Tilting corona shield. 3,437,741, 4-8-69, Cl. 174-141.
Beck, John T., to Control Data Corporation, mesne. Method of making embedded printed circuits. 3,466,206, 9-9-69, Cl. 156-3.
Beck, John William; and Steele, Charles John, to International Business Machines Corporation. High speed-high impedance electrical switch. 3,463,993, 8-26-69, Cl. 320-1.
Beck, Karl: *See*—
Barth, Alfred; Beck, Karl; and Wiedmann, Walter,3,434,601.
Beck, Merrill G., to Lord Corporation. Vehicle spring suspension. 3,456,961, 7-22-69, Cl. 280-124.
Beck, Merrill G., to Lord Corporation. Elastomeric railway freight car truck bolster spring. 3,461,816, 8-19-69, Cl. 105-197.
Beck, R. W., Jr.: *See*—
Pair, Sidney P.; Pair, Jerry W.; and Beck, R. W., Jr.,3,445,134.
Beck, Richard Lee: *See*—
Maltais, Frederick Jean; and Beck, Richard Lee,3,475,573.
Beck, Robert Haun, to Du Pont de Nemours, E. I., and Company. Offset image transfer process. 3,431,846, 3-11-69, Cl. 101-426.
Beck, Robert J., to Duff-Norton Company, Inc. Nut and screw mechanism. 3,485,110, 12-23-69, Cl. 74-424.8
Beck, Roderick G., to American Potato Company. Process for producing a potato granule product from commerical potato flakes and potato granules. 3,457,088, 7-22-69, Cl. 99-207.
Beck, Roderick G., to American Potato Company. Process for producing a dehydrated instant potato product from potato flakes and potato granules. 3,458,325, 7-29-69, Cl. 99-207.
Beck, Roderick G.; and Rainwater, Joe H., to American Potato Company. Process for production of instant mashed potato products of varied bulk-densities from a foamed slurry of cooked potato solids. 3,459,562, 8-5-69, Cl. 99-207.
Beck, Roland D., to Robertshaw Controls Company. Fluidic controlled water valve or the like and parts therefor. 3,446,244, 5-27-69, Cl. 137-606.
Beck, Roland D.; and Houser, Roy W., to Robertshaw Controls Company. Washing machine system and parts therefor. 3,448,661, 6-10-69, Cl. 91-357.
Beck, Roland D.: *See*—
Golden, Robert L.; Wantz, Clarence; Rice, Harold W.; Beck, Roland D.; and Palmer, Reed A.,3,428,768.
Beck, Sidney O. Tape monogrammer. 3,451,366, 6-24-69, Cl. 112-102.
Beck, Thomas M.: *See*—
Stamm, Walter; Greco, Carl C.; and Beck, Thomas M.,3,466,307.
Beck, Walter, K.G., Kontroll- und Fernmessgerate: *See*—
Roll, Karl, 3,438,255.
Beck, Walter: *See*—
Strauss, Richard; and Beck, Walter,3,463,783.
Beck, William A.; and Kruke, William F., to Beck, Inc. Shoe polishing machine. 3,440,676, 4-29-69, Cl. 15-31.
Beck, William P.: *See*—
Stahly, Daniel C.; Schaefer, George H.; and Beck, William P.,3,447,058.
Beck, William R.; and Newton, John S., to Westinghouse Air Brake Company, mesne. Motorized wheel assembly. 3,443,655, 5-13-69, Cl. 180-65.
Becka, Michael M., to Kamborian, Jacob S. Method and apparatus for clamping an end of a shoe assembly. 3,422,476, 1-21-69, Cl. 12-145.
Becka, Michael M.; and Anderson, Gordon S., to Kamborian, Jacobs S. Method of fabricating a shoe. 3,436,781, 4-8-69, Cl. 12-145.
Becka, Michael M.; and Anderson, Gordon S., to Kamborian, Jacob S. Apparatus for casting an article onto a workpiece. 3,444,591, 5-20-69, Cl. 18-42.
Becka, Michael M.; and Harriman, Allen C., to Kamborian, Jacob S. Temporarily securing a shoe sole to a shoe form. 3,439,367, 4-22-69, Cl. 12-142.
Becka, Michael M.; and Harriman, Allen C., to Kamborian, Jacob S. Method and apparatus for fabricating shoes. 3,470,573, 10-7-69, Cl. 12-142.

Becke, Friedrich; and Hagen, Helmuth, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of τ-hydroxyalkancarbonitriles. 3,450,741, 6-17-69, Cl. 260-465.2
Beckenhauer, William H.: *See*—
Kuhns, Charles R.; and Beckenhauer, William H.,3,435,112.
Beckenstein, Leonard A., to Singer Company, The. Multiraceway knitting machine with versatile setout feature. 3,440,838, 4-29-69, Cl. 66-50.
Becker, Adam; Greene, Gorge W., Jr.; and Bruno, Louis D. Electrical game apparatus. 3,438,628, 4-15-69, Cl. 273-1.
Becker, Bernard B., to Lewis-Shepard. Overhead guard for materials handling trucks. 3,455,599, 7-15-69, Cl. 296-102.
Becker-Boost, Erich Heinz; Gross, Otto; and Bill, Walter Heinrich, to Otto Construction Corporation. Method for producing carbon monoxide and hydrogen from coal distillation gas. 3,427,253, 2-11-69, Cl. 252-373.
Becker, Carl H., to Precision Instrument Company. Laser recording apparatus. 3,474,457, 10-21-69, Cl. 346-76.
Becker, David L.: *See*—
Doyle, Carroll F.; and Becker, David L.,3,425,638.
Becker, Dietrich, to Zeiss Ikon Aktiengesellschaft. Multiformat film projector. 3,482,909, 12-9-69, Cl. 352-79.
Becker, Dietrich: *See*—
Krumbein, Fritz; Becker, Dietrich; and Schottle, Ulrich,3,442,584.
Becker, Douglas L., to Fox-Stanley Photo Products, Inc. Control system for film cutter. 3,465,624, 9-9-69, Cl. 83-13.
Becker Drilling (Alberta) Limited: *See*—
Becker, Floyd Walter, 3,469,640.
Becker, Floyd Walter, 3,473,618.
Becker, Edward R.: *See*—
Fischer, Lee J.; Becker, Edward R.; Kutney, John T., and; and McHugh, Donald P.,3,442,471.
Becker, Ernst: *See*—
Pohlemann, Heinz; Spoor, Herbert; and Becker, Ernst,3,446,723.
Becker, Ernst; and Kling, Rudolf, to Quick-Rotan Becker & Co. Transmission with electromagnetic brake and clutches. 3,473,639, 10-21-69, Cl. 192-4.
Becker, Ernst; and Notz, Karl, to Quick-Rotan Becker & Co. Sewing goods and the like tentering frame and assembly device therefor. 3,443,537, 5-13-69, Cl. 112-103.
Becker, Ernst; and Notz, Karl, to Quick-Rotan Becker & Co. Switching device for a sewing machine. 3,477,399, 11-11-69, Cl. 112-219.
Becker, Ernst; and Notz, Karl, to Quick-Rotan Becker & Co. Clutch and brake arrangements for a motor. 3,487,438, 12-30-69, Cl. 192-18.
Becker, Ernst; Notz, Karl; and Meier, Karl-Heinz, to Quick-Elektromotoren-Werk G.m.b.H. Stencil drive mechanism for automatic sewing and the like machines. 3,443,445, 5-13-69, Cl. 74-55.
Becker, Floyd K., to Bell Telephone Laboratories, Incorporated. Distortion monitoring by comparing square and cubic law distortion to carrier. 3,434,056, 3-18-69, Cl. 325-65.
Becker, Floyd K., to Bell Telephone Laboratories, Incorporated. Quadrature-carrier vestigial-sideband data transmission. 3,443,229, 5-6-69, Cl. 325-60.
Becker, Floyd K., to Bell Telephone Laboratories, Incorporated. Adjustable delay line filter having plurality of binarily weighted segments affixed to a body of piezoelectric material. 3,444,482, 5-13-69, Cl. 333-18.
Becker, Floyd K., to Bell Telephone Laboratories, Incorporated. Constant level signal transmission with band-edge pilot tone amplitude adjustment. 3,458,815, 7-29-69, Cl. 325-62.
Becker, Floyd K.; and Lescinsky, Frank W., to Bell Telephone Laboratories, Incorporated. Automatic phase control for a multilevel coded vestigial sideband data system. 3,462,687, 8-19-69, Cl. 325-42.
Becker, Floyd K.; and Rudin, Harry R., Jr., to Bell Telephone Laboratories, Incorporated. Automatic synthesis of distributed-constant, resistance-capacitance filter having arbitrary response characteristic. 3,466,538, 9-9-69, Cl. 324-57.
Becker, Floyd Walter, to Becker Drilling (Alberta) Limited. Selectively vented connectors for percussion bits. 3,469,640, 9-30-69, Cl. 175-321.
Becker, Floyd Walter, to Becker Drilling (Alberta) Limited. Rotary-percussion drill apparatus. 3,473,618, 10-21-69, Cl. 175-215.
Becker, FloydK.; and Holzman, Louis N., to Bell Telephone Laboratories, Incorporated. Demodulator local frequency phase control circuits. 3,439,275, 4-15-69, Cl. 325-329.
Becker, Frederick C., to Burroughs Corporation. Radix reconversion apparatus. 3,439,154, 4-15-69, Cl. 235-155.
Becker, Gerhard, to Huttenwerk Oberhausen AG. Structural steel members and method of making same. 3,479,229, 11-18-69, Cl. 148-6.24
Becker, Gordon D.; and Blaauw, Andrew, to Colt Manufacturing Company, Inc. Adjustable set and flotational support for a tractor-mounted implement. 3,450,211, 6-17-69, Cl. 172-483.
Becker, Hans-Dieter, to General Electric Company. Photochemical production of poly-(1,4-phenylene ethers). 3,432,412, 3-11-69, Cl. 204-158.
Becker, Hans: *See*—
Kalkner, Bernhard; and Becker, Hans,3,461,308.
Becker, Harald: *See*—
Jung, Margarete; Becker, Harald; and von Doehren, Hans,3,479,276.
Becker, Harry W., to Mar-Lin Safety Devices, Inc. Ignition control circuit and power supply therefor. 3,452,731, 7-1-69, Cl. 123-148.
Becker, Helmut; Jensen, Kurt; Leitz, Ernst; and Rinker, Walter, to Leitz, Ernst, G.m.b.H. Center focusing prism binocular and reticle. 3,484,149, 12-16-69, Cl. 350-76.
Becker, Hugo, to Lake Calumet Smelting Co. Fluxes for soft soldering. 3,459,606, 8-5-69, Cl. 148-23.
Becker, James H., to Applied Dynamics, Inc. Regulated power supply. 3,460,023, 8-5-69, Cl. 321-18.
Becker, Jean Marie P.: *See*—
Desmoulins, Jean Marie Joseph; and Becker, Jean Marie P.,3,428,039.
Becker, Jean P. M.; and Mennessier, Andre H. F. Ground covering capable for use in playing tennis in the open air or under cover. 3,438,312, 4-15-69, Cl. 94-12.
Becker, John C.; Benjaminson, Albert; Blanz, Jerry A.; Karrer, Henry E.; and Moffat, Robert J., to Hewlett-Packard Company. Reed relay having a low thermal EMF. 3,456,216, 7-15-69, Cl. 335-151.
Becker, John Edward. Hydraulic couplings. 3,436,916, 4-8-69, Cl. 60-54.
Becker, John E., to Robson Leather Company. Leather working machine. 3,479,847, 11-25-69, Cl. 69-46.
Becker, Josef. One-way drive transmission arrangement, especially for a steering arrangement of a vessel. 3,422,784, 1-21-69, Cl. 114-146.
Becker, Josef, to Schottelwerft Josef Becker KG. Transmission for propulsion systems of watercraft. 3,452,703, 7-1-69, Cl. 115-35.
Becker, Josef, to Schottelwerft Josef Becker KG. Propulsion system for watercraft. 3,455,271, 7-15-69, Cl. 115-35.
Becker, Josef; and Krautkremer, Franz. Propulsion system for watercraft. 3,422,780, 1-21-69, Cl. 114-77.
Becker, Joseph J., to General Electric Company. Method for improving magnetic properties of cobalt- yttrium or cobalt-rare earth metal compounds. 3,463,678, 8-26-69, Cl. 148-105.
Becker, Joseph J., to General Electric Company. Torque magnetometer with torsion fiber suspension. 3,464,003, 8-26-69, Cl. 324-43.
Becker, Karl V., to United Shoe Machinery Corporation. Adhesive applying apparatus. 3,422,797, 1-21-69, Cl. 118-411.
Becker, Karl: *See*—
Smeykal, Karl; Pallutz, Heinrich; Hahner, Eberhard; Becker, Karl; and Stoss, Werner,3,453,314.
Becker, Kenneth G.; and Crewse, John L., to Cleveland Vibrator Company, The. Vibrator. 3,463,458, 8-26-69, Cl. 259-1.
Becker, Klaus H., to United States of America, Atomic Energy Commission. Stimulated exoelectron emission dosimeters. 3,484,610, 12-16-69, Cl. 250-83.3
Becker, Klaus: *See*—
Feldhoff, Heinrich; Becker, Klaus; and Schlereth, Georg,3,476,963.
Becker, Kurt, to Heye, Hermann. Bottle testing arrangement. 3,464,547, 9-2-69, Cl. 209-73.
Becker, Leonard, to TRW Inc. Ridge pattern recording apparatus. 3,482,498, 12-9-69, Cl. 95-12.
Becker, Marvin; and Belmuth, Harold. Fabric-forming apparatus. 3,461,504, 8-19-69, Cl. 18-19.
Becker, Matthew L., to Atlantic Richfield Company. Purification of hydrogen chloride produced during the alkylation of benzene with chloroparaffins. 3,469,370, 9-30-69, Cl. 55-71.
Becker, Maximilian C. Methods and apparatus for controlling the useful magnetomotive force of a permanent magnet. 3,428,867, 2-18-69, Cl. 317-123.
Becker, Mitchell: *See*—
Russell, Joseph Lee; and Becker, Mitchell,3,438,726.
Becker, Peter: *See*—
Malinowsky, Boris,3,449,676.
Becker, Ralph H. L., Mrs.: *See*—
Evans, Thomas,3,437,209.
Becker, Ralph J.: *See*—
Mardarello, Alfred F.; and Becker, Ralph J.,3,457,862.
Becker, Randolph A.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,444,375.
Becker, Richard W., to Eastman Kodak Company. Multi-color dye developer systems. 3,477,849, 11-11-69, Cl. 96-29.
Becker, Robert; and Hultgren, Arnold P., to Amerline Corporation. Endless tape cartridge. 3,438,591, 4-15-69, Cl. 242-55.19
Becker, Roger T., to Aero-Motive Manufacturing Company. Power carriage with retractable pulley. 3,423,545, 1-21-69, Cl. 191-12.
Becker, Roger T.; and Becker, William K., to Aero-Motive Manufacturing Company. Dual hydraulic reel. 3,467,134, 9-16-69, Cl. 137-355.17
Becker, Rudolf, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Flushing with residual uncondensed gas mixture after

vacuum removal of condensed components. 3,421,332, 1-14-69, Cl. 62o13.
Becker, Rudolf, to Linde Aktiengesellschaft. Rectification column. 3,421,335, 1-14-69, Cl. 62-42.
Becker, Rudolf. Tankship for the transportation of low-temperature liquefied gases. 3,422,779, 1-21-69, Cl. 114-74.
Becker, Rudolf, to Linde Aktiengesellschaft. Combining pure liquid and vapor nitrogen streams from air separation for crude hydrogen gas washing. 3,426,543, 2-11-69, Cl. 62-13.
Becker, Rudolf, to Linde Aktiengesellschaft. Rectification-column assembly. 3,464,679, 9-2-69, Cl. 261-114.
Becker, Rudolf, to Linde Aktiengesellschaft. Regenerator. 3,477,496, 11-11-69, Cl. 165-10.
Becker, Rudolf, to Linde Aktiengesellschaft Zentrale Patentabteilung. Tankship container for liquefied gas. 3,485,409, 12-23-69, Cl. 220-9.
Becker, Sidney S. Safety tablet dispenser. 3,454,194, 7-8-69, Cl. 221-71.
Becker, Stephen P., to Fargo Mfg, Company, Inc. Connector assembly. 3,444,505, 5-13-69, Cl. 339-94.
Becker, Toni: *See*—
Schraub, Wilhelm; and Becker, Toni,3,486,412.
Becker, Walter. Method and apparatus for making artificial sausage casings and the like. 3,468,357, 9-23-69, Cl. 146-237.
Becker, Wayne M. Plastic horseshoe. 3,469,631, 9-30-69, Cl. 168-4.
Becker, Wilhelm, to Reichhold Chemicals, Inc. Baking varnish on the basis of alkyd resins and etherified aminotriazine resins free of formaldehyde. 3,434,985, 3-25-69, Cl. 260-21.
Becker, William C., to Reynolds Metals Company. Squeeze carton and blank for making same. 3,469,743, 9-30-69, Cl. 222-105.
Becker, William C.; and Boegershausen, Robert L., to Reynolds Metals Company. Container construction and method and apparatus for making the same. 3,425,324, 2-4-69, Cl. 93-36.01
Becker, William K.: *See*—
Becker, Roger T.; and Becker, William K.,3,467,134.
Becker, Willi, to Pfeiffer, Arthur, Hochvakuumtechnik G.m.b.H. Turbo-molecular pump. 3,477,381, 11-11-69, Cl. 103-84.
Becker, Willy, to Diehl. Device for electromagnetically transforming binary values into decimal values. 3,452,187, 6-24-69, Cl. 235-155.
Becker, Winfried, to European Atomic Energy Community (Euratom). Device for measuring the temperature of a liquid. 3,469,447, 9-30-69, Cl. 73-342.
Beckering, Jacobus J., to Black and Decker Manufacturing Company, The. Belt-tracking construction for belt-type sanding devices and the like. 3,429,078, 2-25-69, Cl. 51-148.
Beckering, Jacobus J.; and Beares, Allen G., to Black and Decker Manufacturing Company, The. Housing and handle construction for a belt type sander. 3,474,575, 10-28-69, Cl. 51-170.
Beckering, Jacobus J.; Duran, Raymond J.; and Lessig, William R., III, to Black and Decker Manufacturing Company, The. Lawn mower deck housing. 3,485,018, 12-23-69, Cl. 56-25.4
Beckering, Jacobus J.: *See*—
Sheps, Martin I.; Beckering, Jacobus J.; and Bednarski, Thaddeus E.,3,432,703.
Beckerle, Lloyd D.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,431,397.
Beckerle, Lloyd D. Three-dimensional reproduction method. 3,428,503, 2-18-69, Cl. 156-11.
Beckerman, Joseph W. Hidden storage shelf. 3,485,544, 12-23-69, Cl. 312-248.
Beckerman, Saul. Photographic printing mask. 3,433,563, 3-18-69, Cl. 355-54.
Beckers, Gustav. Apparatus for continuously and mechanically compacting webs of fibrous material. 3,471,907, 10-14-69, Cl. 26-18.6
Beckers, Heinz: *See*—
Steinberger, Josef; and Beckers, Heinz,3,424,468.
Beckert, Werner: *See*—
Spiroch, Franz; and Beckert, Werner,3,476,299.
Beckett, Allan Harry: *See*—
Bugg, Alfred Edward, 3,463,002.
Bugg, Alfred Edward, 3,475,834.
Beckett, Arnold Heyworth: *See*—
Beckett, Arnold Heyworth; Harper, Norman James; and Simmonds, Alma Beryl, 3,462,444.
Beckett, Arnold Heyworth; Harper, Norman James; and Simmonds, Alma Beryl, to Beckett, Arnold Heyworth. Novel 4-benzylpiperidine derivatives. 3,462,444, 8-19-69, Cl. 260-294.7
Beckett, Clark; and Poppink, Everett H., to Eastman Kodak Company. Color photographic silver halide elements containing 4-substituted urazoles and/or cycloalkane -1,3-diones. 3,447,926, 6-3-69, Cl. 96-69.
Beckett, Harold: *See*—
Reeve, Leonard; Brown, Stanley Clifford; and Beckett, Harold,3,469,296.
Beckett, Joseph K., to Gulf Oil Corporation. Cement placement tool and method. 3,481,402, 12-2-69, Cl. 166-290.
Beckett Manufacturing Co.: *See*—
Spencer, Kenneth H., 3,430,922.
Beckett, Maurice E., to Sherwin-Williams Company, The. Preparation of triaryl methane dyes. 3,439,004, 4-15-69, Cl. 260-391.
Beckham, Leland J., to Allied Chemical Corporation. Production of tetraiminopiperazine. 3,422,109, 1-14-69, Cl. 260-268.
Beckham, Rodney D.; and Makin, Earle C., to Monsanto Company. Separation of aromatic hydrocarbons. 3,427,362, 2-11-69, Cl. 260-674.
Beckham, Rodney D.; Makin, Earle C., Jr.; and Urry, Wilbert H., to Monsanto Company. Separation of vinyl aromatic hydrocarbons. 3,437,704, 4-8-69, Cl. 260-669.
Becking, Donald H.: *See*—
Brown, Henry; Becking, Donald H.; and Valayil, Sylvester P.,3,432,408.
Becking, Paul E.; and Hatfield, Charles T., to Data-Link Corporation. Correction tape. 3,469,033, 9-23-69, Cl. 178-112.
Beckley, Cecil J. Cross plow corrugator and cultivator. 3,454,102, 7-8-69, Cl. 172-100.
Becklin, Dennis M., to Crate-Rite, Incorporated. Protective case for electronic instruments. 3,482,895, 12-9-69, Cl. 312-352.
Beckman Instruments, Inc.: *See*—
Adams, Clarence W.; and Matsuyama, George, 3,449,231.
Arthur, Edwin P., 3,479,255.
Arthur, Edwin P., 3,480,536.
Ashley, Joseph; and Keahl, Gerald Thomas, 3,447,873.
Beattie, Willard H., 3,462,609.
Bekey, George A., 3,444,361.
Blanke, Gordon Clifford, 3,433,936.
Bochinski, Julius H., 3,426,600.
Boronkay, Attila D., 3,436,541.
Boronkay, Attila Denes, 3,459,481.
Boyd, William R., 3,470,381.
Buzza, Edmund E., 3,425,278.
Buzza, Edmund Earl, 3,428,401.
Cliffgard, Arnie L.; and Boynton, David G., 3,440,518.
Cliffgard, Arnie L., 3,444,467.
Counts, William E.; and Bruhl, Donald A., Jr., 3,479,216.
Deuringer, Rudolf, 3,433,580.
Dodson, Michael; and Randall, Jerrold H., 3,456,672.
Douglass, Donald C., 3,470,437.
Ehret, Robert J., 3,436,637.
Elmore, Marshall D., 3,458,705.
Erbach, Arthur R., 3,424,198.
Fletcher, Taylor C.; and Shoemaker, William E., 3,422,360.
Fowler, Leslie E., 3,443,447.
Franklin, Robert C.; and Boyd, William R., 3,453,645.
Galasso, Maurice; and Kirby, Joseph C., 3,447,712.
Gordon, Manuel J.; and Ogle, David G., 3,474,024.
Greene, Robert L.; and Brown, Hugh O., 3,484,359.
Grichnik, James A.; and Kupferschmidt, Albert, 3,469,903.
Haagen-Smit, Jan W., 3,421,989.
Hall, Lloyd E., 3,426,307.
Hauk, Peter; and Porter, Joe A., 3,454,485.
Hell, August, 3,438,711.
Hell, August, 3,469,794.
Henderson, Billie D., 3,460,880.
Hinrichs, Karl; and Diederich, Perry A., 3,421,093.
Huebner, Victor R., 3,458,428.
Huebner, Victor R., 3,486,298.
Jacobson, Kenneth E.; and Taylor, John T., 3,443,747.
Jones, Robert H., 3,457,145.
Kahn, Alan R.; and Spracklen, Stanford B., 3,436,329.
Kater, John A. R., 3,469,577.
Kaye, Wilbur I., 3,430,041.
Keahl, Gerald T., 3,449,050.
Keahl, Gerald Thomas, 3,435,209.
Klaus, Lee E., 3,426,695.
Krull, Irwin H.; and Sternberg, James C., 3,426,599.
Lenkey, Andrew; and Graeser, James B., Jr., 3,430,852.
Leonard, John E., 3,459,176.
Leonard, Lynn B., 3,423,304.
Leonard, Lynn B.; and Petersen, Arne J., 3,444,068.
Liston, Max D.; Beebe, Cedric H.; and Woolhouse, John T., 3,443,433.
Litle, Robert L.; Sternberg, James C.; and Deuringer, Rudolf, 3,483,990.
Lucero, Daniel Patrick, 3,468,781.
Marks, Lloyd C., 3,459,369.
Matthews, Kenneth V., 3,486,823.
McCarthy, Roy Arthur, 3,433,937.
McEwen, Cassius R., 3,456,876.
Nather, Roy E.; and Knute, Wallace L., 3,470,365.
Page, Archer G.; and Carter, Alan W., 3,440,517.
Peart, Leslie T.; and Youngblut, Charles W., 3,427,546.
Petersen, Arne J.; and Taylor, John T., 3,479,270.
Petersen, Arne J., 3,486,997.
Pickels, Edward G., 3,468,997.
Porter, Joe A.; and Waters, Ronald F., 3,434,953.
Porter, Joe A.; and Waters, Ronald R., 3,445,369.
Schneider, Stanley; and Ferrell, Robert L., 3,470,333.
Selitrennikoff, Wladimir, 3,427,483.
Shoemaker, William E., 3,453,554.

Shoemaker, William E.; and Weekes, Barret B., 3,457,493.
Siegelman, Abe; and Fowler, Leslie E., 3,427,635.
Siegleman, Abe; Lencioni, Cecil C., Jr.; and Rosmanith, Carl W., 3,483,410.
Sloane, Howard Jules, 3,471,212.
Snyder, Robert B.; and Petersen, Arne J., 3,476,672.
Sternberg, James C., 3,435,659.
Sternberg, James C., 3,435,660.
Sternberg, James C., 3,435,678.
Sternberg, James C., 3,446,964.
Strickler, Allen, 3,445,364.
Strickler, Allen, 3,458,427.
Sundstrom, Karl Erik, 3,443,089.
Sundstrom, Karl Erik, 3,443,090.
Sundstrom, Karl Erik; Matthews, Kenneth Vincent; and Kaye, Wilbur Irving, 3,459,479.
Thomas, Walter C., 3,467,836.
Tipotsch, Donald George, 3,462,227.
Villalobos, Richard, 3,457,773.
Watanabe, Hideo; and Harman, John N., III, 3,438,875.
Watanabe, Hideo; and Buzza, Edmund E., 3,444,067.
Watanabe, Hideo; and Buzza, Edmund E., 3,455,793.
Wright, Alan J., 3,430,178.
Yungblut, Charles Walter, 3,420,946.
Zec, Zvonimir Juan, 3,428,547.
Zec, Zvonimir Juan, 3,432,424.

Beckman, John B.; and Atkins, Ralph E., to F. P. T. Hycaflex, Inc. Clamp assembly. 3,435,488, 4-1-69, Cl. 24-126.

Beckman, John H.: *See—*
Myles, Michael J.; Kupcikevicius, Vytautas; and Beckman, John H.,3,457,588.

Beckman, Leo Heinrich Josef Franz; Schabbink, Johannes Gerardus Bernardus; and de Heere, Gerard Andries Scheltema, to N.V. Optische Industrie 'De Oude Delft'. Optical scanning device. 3,473,860, 10-21-69, Cl. 350-7.

Beckman, Melvin H.; Unter, Robert K.; and Wald, Samuel K., to Keystone Consolidated Industries, Inc. Shear link and method of using same. 3,434,263, 3-25-69, Cl. 52-715.

Beckman, Paul. Thermal probe. 3,435,400, 3-25-69, Cl. 338-28.

Beckman, Paul: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,447,071.

Beckman, Robert P. Auto baby hammock. 3,454,968, 7-15-69, Cl. 5-94.

Beckman, Ronald H., to Herman Miller, Inc. Space divider. 3,449,877, 6-17-69, Cl. 52-238.

Beckmann, Gunter: *See—*
Engel, Frederico; and Beckmann, Gunter,3,446,786.

Beckmann, Leo Heinrich Josef Franz, to N.V. Optische Industrie 'De Oude Delft'. Scanner which utilizes a pair of time-shared apertures. 3,487,224, 12-30-69, Cl. 250-220.

Beckmann, Rolf; Kleefisch, Karl-Heinz; and Dobrikat, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Process for the manufacture of ross-linked ethylene polymer foams. 3,452,123, 6-24-69, Cl. 264-53.

Beckmann, Uwe L., to Singer Company, The, mesne. Self-balancing system for obtaining in-line counter-type readout of unknown voltage input signal with expanded operational mode to provide additional digit in readout. 3,464,011, 8-26-69, Cl. 324-99.

Beckmann, Wilhelm: *See—*
Herrle, Karl; Baumann, Karl Heinz; Beckmann, Wilhelm; and Heil, Eduard,3,458,467.

Beckmann, Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for carrying out photochemical reactions and apparatus therefor. 3,458,418, 7-29-69, Cl. 204-157.1

Beckmann, Wilhelm; Kengelbach, Werner Ludwig; Metzger, Horst; and Pape, Martin, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for photochemical reactions. 3,476,669, 11-4-69, Cl. 204-193.

Becknell, James L., to Cutler-Hammer, Inc. Compact sealed electrical relay. 3,451,017, 6-17-69, Cl. 335-124.

Beckwell, George F., to Pines Engineering Co., Inc. Material feeding apparatus. 3,442,113, 5-6-69, Cl. 72-421.

Beckwell, George F., to Pines Engineering Co., Inc. Visual measuring device for bending machine. 3,464,247, 9-2-69, Cl. 72-37.

Beckwith, Edwin L., to Beckwith-Arden Inc. Ionomeric resin stiffening element. 3,427,733, 2-18-69, Cl. 36-68.

Beckwith, Harry L., to Beckwith-Arden Inc. Cushion insole. 3,448,533, 6-10-69, Cl. 36-44.

Beckwith, Robert C.; and Hecker, Robert W., Jr., to Loomis Machine Company. Dockboard. 3,426,377, 2-11-69, Cl. 14-71.

Beckwith, Robert C.; and Hecker, Robert W., Jr. Loomis Machine Company Dockboard assembly. 3,460,175, 8-12-69, Cl. 14-71.

Beckwith-Arden Inc.: *See—*
Beckwith, Edwin L., 3,427,733.
Beckwith, Harry L., 3,448,533.

Beckwith,Robert C.: *See—*
Hecker,Robert W.,Jr.; and Beckwith,Robert C.,3,486,181.

Becorit Grubenausbau GmbH: *See—*
Kolk, Theodor; and Wertelewski, Wilhelm, 3,486,592.

Becorit (Research) Limited: *See—*
Jackson, Eric W., 3,456,597.

Becquerel, Georges Paul Marie, to Eastman Kodak Company. Process for autoelectrolytic reproduction of documents. 3,477,847, 11-11-69, Cl. 96-1.8

Becton, Dickinson and Company: *See—*
Arcudi, Joseph L., 3,466,131.
Ayres, Waldemar A., 3,456,487.
Ayres, Waldemar A., 3,456,488.
Ayres, Waldemar A., 3,467,098.
Ayres, Waldemar A., 3,469,452.
Buono, Frank S., 3,485,265.
Ciampa, Lincoln L., 3,434,587.
Ciampa, Lincoln Lloyd, 3,444,620.
Clark, Lyman M., 3,456,783.
Cohen, Martin Bruce, 3,439,675.
Frost, John K., 3,485,236.
Haiken, Robert M., 3,470,975.
Hubert, Franz Hans, 3,469,579.
Keller, George H., 3,469,449.
Mohler, Richard E., 3,468,735.
Nehring, John Richard, 3,469,572.
Vanderbeck, Russell C., 3,469,750.
Vanderbeck, Russell C., 3,485,239.

Becton, Dickinson of California, Inc.: *See—*
Rodrigues, Anthony F.; and Eaton, Roy W., 3,431,596.

Bedard, Norman M. Window operator. 3,481,076, 12-2-69, Cl. 49-279.

Beddoe, Stanley, to English Electric Company Limited, The. Vacuum switch with liquid filled bellows operation. 3,470,341, 9-30-69, Cl. 200-144.

Beddows, Norman A., to General Electric Company. Moisture and temperature compensating capacitive film thickness gauge. 3,471,780, 10-7-69, Cl. 324-61.

Bedell, Edward L., to Allis-Chalmers Manufacturing Company. Method for ultra-high purity precision casting. 3,434,527, 3-25-69, Cl. 164-69.

Bedell, Edward L., to Allis-Chalmers Manufacturing Company. Apparatus for ultrahigh purity precision casting. 3,455,373, 7-15-69, Cl. 164-258.

Bedell, Stanley F., to Monsanto Research Corporation. Poly-β-hydroxyamines propellant compositions prepared with lithium perchlorate. 3,454,436, 7-8-69, Cl. 149-19.

Bedenk, William T.; and Luebering, James E., to Procter & Gamble Company, The. Process for preparing pastry crust mixes. 3,486,908, 12-30-69, Cl. 99-94.

Bedetti, Gianfranco, to Montecatini Edison S.p.A. Process and apparatus for the partial combustion of liquid hydrocarbons to gaseous mixtures containing hydrogen and carbon monoxide. 3,462,250, 8-19-69, Cl. 48-95.

Bedford, Alan, to Hawker Siddeley Dynamics Limited. Electrical control systems for engines. 3,421,317, 1-14-69, Cl. 60-39.28

Bedford, Alda V., to RCA Corporation. Self-propelling hose. 3,485,237, 12-23-69, Cl. 128-2.

Bedford, Arthur Hugh: *See—*
Andrews, Richard Charles; and Bedford, Arthur Hugh,3,420,648.

Bedford, Burnice D., to General Electric Company. Transformer coupled time ratio controlled circuits. 3,434,030, 3-18-69, Cl. 321-2.

Bedford, Burnice D., to General Electric Company. Inverters operable with a wide range of load impedances. 3,483,462, 12-9-69, Cl. 321-45.

Bedford, Burnice D.; and Turnbull, Fred G., to General Electric Company. Controlled silicon rectifier circuit having non- conducting negative bias ratio. 3,480,797, 11-25-69, Cl. 307-252.

Bedford, William A., Jr., to Vare Corporation. Dished washer lock for threaded element. 3,434,520, 3-25-69, Cl. 151-38.

Bedford, William A., Jr., to Microdot Inc., mesne. Screw retainer. 3,474,847, 10-28-69, Cl. 151-69.

Bedford-Jones, Peter E.: *See—*
Longley, Harry F.; Bedford-Jones, Peter E.; and Battle, Thomas,3,443,930.

Bedi, Ram Dev, to M & T Chemicals, Inc. Method of treating electrodes for use in electroplating baths. 3,477,920, 11-11-69, Cl. 204-15.

Bedker, Miles P., to Wilson & Co., Inc. Waste treatment process and apparatus. 3,459,659, 8-5-69, Cl. 210-3.

Bedline, Inc.: *See—*
Spitz, Melvin P.; Sharp, Chester H.; and Sproule, John W., 3,431,567.
Spitz, Melvin P., 3,447,170.

Bednarczuk, Frederick P.: *See—*
Linz, Robert M.; and Bednarczuk, Frederick P.,3,465,708.

Bednarski, Thaddeus E.: *See—*
Amrein, Carl J.; and Bednarski, Thaddeus E.,3,441,766.

Bednarski, Thaddeus E., to Black and Decker Manufacturing Company, The. Dual stroke length mechanism. 3,482,458, 12-9-69, Cl. 74-44.

Sheps, Martin I.; Beckering, Jacobus J.; and Bednarski, Thaddeus E.,3,432,703.
Bedo, Zoltan: *See—*
Meyer, Walter; and Bedo, Zoltan,3,432,726.
Bedoch, Joseph S.: *See—*
Politzer, Alfred; Drtina, Otto V.; and Bedoch, Joseph S.,3,473,884.
Bedocs, Michael F., to Indak Manufacturing Corporation. High precision multiposition electrical switch. 3,462,564, 8-19-69, Cl. 200-16.
Bedrijven Van Het Nederlands Instituut Voor: *See—*
Ubbels, Jacob; and Staal, Hermannes Jan, 3,438,131.
Bedrosian, Karakian; and Robach, Donald L., to Whirlpool Corporation. Method of tenderizing meat. 3,445,240, 5-20-69, Cl. 99-107.
Beduhn, Daniel E., to Manitowoc Company, Inc., The. Auxiliary support for cranes. 3,485,383, 12-23-69, Cl. 212-48.
Beduhn, William G., to Honeywell Inc. Control apparatus. 3,452,770, 7-1-69, Cl. 137-81.5
Bee Chemical Company: *See—*
Roney, Charles F., 3,473,946.
Beebe, Austin H., Jr., to Federal-Mogul Corporation. Method of making bearing material. 3,445,909, 5-27-69, Cl. 29-149.5
Beebe, Cedric H.: *See—*
Liston, Max D.; Beebe, Cedric H.; and Woolhouse, John T.,3,443,433.
Beebe, Jerry T.; and DeLoe, O. Paul, to Towne Robinson Fastener Company. Locknuts. 3,431,959, 3-11-69, Cl. 151-21.
Beebe, Raymond A.; and Jones, John R., to Massey-Ferguson Inc. Shelled peanut planting apparatus. 3,486,659, 12-30-69, Cl. 221-277.
Beech Aircraft Corporation: *See—*
Ziegler, John H., 3,485,060.
Beecham Group Limited: *See—*
Atkins, Herbert Ashley, 3,471,052.
Doyle, Frank Peter; and Nayler, John Herbert Charles, 3,470,151.
Fosker, George Robert; and Nayler, John Herbert Charles, 3,453,264.
Hardy, Kenneth David; Nayler, John Herbert Charles; and Stove, Edward Raymond, 3,448,104.
Long, Anthony Alfred Walter; and Nayler, John Herbert Charles, 3,433,784.
Beecher, David W.; and Morgret, Gordon L., to Aerojet-General Corporation. Magnetic pin memory system. 3,487,387, 12-30-69, Cl. 340-174.1
Beecher, Donald J.; and Otte, George E., to American Sterilizer Company. Material handling system for hospitals. 3,453,659, 7-1-69, Cl. 186-1.
Beede Electrical Instrument Co., Inc.: *See—*
DeCloux, Richard J.; and Madsen, John Robert, 3,441,740.
Beegle, Lindley Clair: *See—*
Haacke, Gottfried; and Beegle, Lindley Clair,3,448,053.
Longfield, James Edgar; and Beegle, Lindley Clair,3,455,659.
Beeken, Basil B., to Pitney-Bowes, Inc. Fluid ultrasonic generator. 3,432,804, 3-11-69, Cl. 340-15.
Beeken, David William, to Dorr-Oliver Incorporated. Cone tray heat exchanger. 3,423,840, 1-28-69, Cl. 34-10.
Beeker, Charles W.: *See—*
Crabtree, Royale R.; Beeker, Charles W.; and Mead, Dennis E,3,448,654.
Beekes, Hugh A.; Herrmann, Thomas R.; Lipp, Melbourne A.; Olson, Henning H.; and Schleicher, Allen K., to Kaiser Aluminum & Chemical Corporation, mesne. Multistation packaging apparatus and system for forming a multicomponent package. 3,466,845, 9-16-69, Cl. 53-194.
Beekman, Bruce E.: *See—*
Bratingham, Charles R.; Beekman, Bruce E.; and Eames, Loren W.,3,434,715.
Beekman, Henricus Ernest, to North American Philips Company, Inc. Signal amplifier having grounded-base stage for a cable terminating impedance. 3,437,947, 4-8-69, Cl. 330-20.
Beekman, Stewart M.; Holbert, James M.; and Schmank, Horst W., to Chattanooga Medicine Company, The. Buffered antiperspirant compositions containing dioxalumolane and dioxaluminane compounds. 3,444,292, 5-13-69, Cl. 424-68.
Beekman, Stewart M.: *See—*
Schmank, Horst W.; Beekman, Stewart M.; and Holbert, James M.,3,444,226.
Beeler, Albert D.; and Whitley, Marvin R., to Eastman Kodak Company. Plasticized vinyl resin compositions containing 2,2,4 trimethylpentane-1,3-diol diisobutyrate. 3,466,223, 9-9-69, Cl. 161-162.
Beeler, Allan E.: *See—*
Chouinard, Alfred F.; and Beeler, Allan E.,3,461,865.
Beelitz, Howard R., to Radio Corporation of America. Differential amplifier. 3,445,780, 5-20-69, Cl. 330-69.
Beelitz, Howard R., to RCA Corporation. Differential amplifier single ending circuit. 3,470,486, 9-30-69, Cl. 330-30.
Beeman, Gordon E., to National Gypsum Company. Programming switch and kiln unloader control. 3,441,689, 4-29-69, Cl. 200-4.
Beeman, Robert H., to Du Pont de Nemours, E. I., and Company. Pigmented paper coating and adhesive compositions containing a polyvinyl alcohol binder and a modifier therefor. 3,477,970, 11-11-69, Cl. 260-17.
Beemer, Jack A., to Mallory, P. R., & Co., Inc. Electronic assembly. 3,456,157, 7-15-69, Cl. 317-99.
Beemer, Robert J., to Wilson, Lee, Engineering Company, Inc. Apparatus for coiling or uncoiling strip material. 3,455,520, 7-15-69, Cl. 242-78.1
Beer, Andrew Francis: *See—*
Beale, Julian Robert Anthony; and Beer, Andrew Francis,3,449,648.
Beer, Andrew Francis, to North American Philips Company, Inc. Insulated gate field effect transistor with plural overlapped gates. 3,436,623, 4-1-69, Cl. 317-235.
Beer, Carl C., to Sherman Car Wash Equipment Company. Vehicle washer. 3,428,982, 2-25-69, Cl. 15-21.
Beer, Karl. Machine for reconditioning pneumatic tyres. 3,463,207, 8-26-69, Cl. 144-288.
Beer, Ludwig A., to Monsanto Company. Graft copolymers prepared by polymerizing vinyl chloride in the presence of vinyl acetate polymers. 3,432,576, 3-11-69, Cl. 260-878.
Beer, Ludwig A., to Monsanto Company. Polyblends comprising a vinyl chloride graft copolymer, a styrene-acrylonitrile-butadiene graft copolymer and vinyl polymer. 3,444,267, 5-13-69, Cl. 260-876.
Beer, Ludwig A., to Monsanto Company. Polyblends comprising a vinyl chloride graft copolyer, butadiene-acrylonitrile copolymer, and a vinyl polymer. 3,444,268, 5-13-69, Cl. 260-876.
Beer, Ludwig A., to Monsanto Company. Polyblends comprising a vinyl chloride graft copolymer, a styrene-methyl methacrylate-butadiene graft copolymer and a vinyl polymer. 3,444,269, 5-13-69, Cl. 260-876.
Beer, Sylvan Z.; and Sandler, Yehuda L., to United States of America, Army, mesne. Alkaline cell having silver-magnesium alloy electrode. 3,458,360, 7-29-69, Cl. 136-120.
Beer, Walter A.: *See—*
Brown, Archer W.; Montgomery, James L.; and Beer, Walter A.,3,460,645.
Beer, Wilhelm. Bottle capping device. 3,422,597, 1-21-69, Cl. 53-296.
Beerbower, Alan: *See—*
Nixon, James; Wallace, Thomas J.; and Beerbower, Alan,3,458,294.
Beercheck, Thomas: *See—*
Witek, Joseph; and Beercheck, Thomas,3,481,481.
Beereboom, John J., Jr.; and Buckley, Jay S., Jr., to Pfizer, Chas., & Co., Inc. Process for the preparation of oxygen-containing chemical compounds. 3,438,882, 4-15-69, Cl. 204-158.
Beereboom, John J., to Pfizer, Chas., & Co., Inc. Process for preserving edibles. 3,446,630, 5-27-69, Cl. 99-150.
Beereboom, John J., to Pfizer, Chas., & Co., Inc. 2-Substituted cyclic thioimidates as fungicides. 3,471,618, 10-7-69, Cl. 424-246.
Beerli, Karl, to Spindel-Motoren-und Maschinenfabrik A.G. Rotary extraction apparatus. 3,453,083, 7-1-69, Cl. 23-269.
Beerli, Karl, to Spindel-, Motoren- und Maschinenfabrik AG. Textile spindle. 3,485,029, 12-23-69, Cl. 57-134.
Beermann, Claus: *See—*
Hahn, Helmut; and Beermann, Claus,3,427,276.
Landauer, Franz; Beermann, Claus; and Horoldt, Ernst,3,470,287.
Rupp, Walter; and Beermann, Claus,3,462,397.
Beermann, Claus; Ramloch, Herbert; and Rosinger, Sigurd, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing sulfonic acids. 3,481,849, 12-2-69, Cl. 204-162.
Beers, Melvin D., to General Electric Company. Alkoxyhydroxy-terminated polydiorganosiloxanes curable at room temperature. 3,438,930, 4-15-69, Cl. 260-37.
Beers, Raymond L., to United States of America, Army, mesne. Grenade floatation shroud holding and releasing arrangement employing plastic connector. 3,427,973, 2-18-69, Cl. 102-65.
Beers, Russel L., to Cities Service Oil Company. Process for continuous casting of steel with oil- water mold lubricant. 3,448,787, 6-10-69, Cl. 164-73.
Beerstecher, Wolfgang: *See—*
Bruckner, Klaus; Beerstecher, Wolfgang; Kraft, Hans-Gunther; and Kieser, Hartmut,3,449,495.
Beertronic Corporation: *See—*
Starbuck, Elbert C., 3,423,551.
Beery, Dale M., to Boeing Airplane Company. Manufacture of laminates. 3,486,438, 12-30-69, Cl. 100-93.
Beesch, Otto, to Bosch, Robert, G.m.b.H. Sealing arrangement. 3,434,461, 3-25-69, Cl. 123-32.
Beesch, Otto, to Bosch, Robert, G.m.b.H. Ignition device. 3,449,638, 6-10-69, Cl. 317-82.
Beese, Norman C., to Westinghouse Electric Corporation. High-pressure electric discharge lamp having magnetically-actuable arc ignition means, and apparatus for starting such a lamp. 3,452,236, 6-24-69, Cl. 313-152.

Beesley, Gilbert William, to Rolls-Royce Limited. Bladed rotor for a fluid flow machine. 3,477,795, 11-11-69, Cl. 416-191.
Beesley, John: *See*—
McGee, James Dwyer; Beesley, John; and Berg, Anthony David,3,479,516.
Beesley, John; and Hyman, Robert Anthony, to English Electric-Leo-Marconi Computers Limited. Method of attaching integrated circuits to a substrate by an electron beam. 3,480,755, 11-25-69, Cl. 219-121.
Beeson, Phillip A.: *See*—
Anderson, Gerald V.; and Beeson, Phillip A.,3,424,891.
Beeson, William Law: *See*—
Mangan, Richard E.; and Beeson, William Law,3,433,443.
Beeston, John T., Jr. Electronic furnace control. 3,472,452, 10-14-69, Cl. 236-9.
Beetle, Robert H.; and Dabney, John B., to Abex Corporation. Method for casting in a permanent mold a casting having thick and thin sections. 3,460,605, 8-12-69, Cl. 164-123.
Beetle, Robert H.; and Dabney, John B., to Abex Corporation. Permanent mold for casting a wheel. 3,480,070, 11-25-69, Cl. 164-365.
Beevendorp, Johannes: *See*—
de Ruyter van Steveninck, Albert W.; and Beevendorp, Johannes,3,477,974.
Beezley, Dale L., to United States of America, Navy, mesne. Voltage sequencer. 3,484,618, 12-16-69, Cl. 307-41.
Begeman, Robert H.; Brickey, Orville G.; May, Charles W.; and McCormick, Richard E., to United States of America, Navy. Switchable linear-circular polarized monopulse radar feed producing two axis (three-dimensional tracking) information utilizing a two-lobe monopulse design. 3,453,617, 7-1-69, Cl. 343-7.4
Begeman, Robert H.; and Kearschner, Jack T., to United States of America, Navy. Integral radar test system. 3,449,746, 6-10-69, Cl. 343-17.7
Begent, Harry Hawley, to English Electric Company Limited, The. Power systems embodying DC. ring mains. 3,474,256, 10-21-69, Cl. 307-18.
Beger, Udo: *See*—
Glaser, Dieter; and Beger, Udo,3,466,677.
Begey, Kenneth P.: *See*—
Lieffring, Gordon V.; Begey, Kenneth P.; and Widner, James E.,3,464,631.
Beggs, Donald. Furnace hearth. 3,452,972, 7-1-69, Cl. 266-20.
Beggs, Donald; and Ahrendt, William A., to Midland-Ross Corporation. Process for making metallized pellets from iron oxide containing material. 3,443,931, 5-13-69, Cl. 75-33.
Begiebing, Robert H., to American Sugar Company. Fruit press. 3,459,123, 8-5-69, Cl. 100-118.
Begizov, Vladimir Nikolaevich. Shape of ship's bow. 3,443,544, 5-13-69, Cl. 114-56.
Begley, Edward R.; Patrick, Robert F.; and Wehrenberg, Thomas M., to Corhart Refractories Company, Inc. Mortar composition and structures incorporating such compositions. 3,470,004, 9-30-69, Cl. 106-59.
Begley, John W.: *See*—
Longwell, John P.; Bieber, Herman; and Begley, John W.,3,429,265.
Begue, William G. Egg-cracking appliance. 3,456,703, 7-22-69, Cl. 146-2.
Beguin, Fred P., to American Optical Corporation, mesne. Attachment mounting means for hearing protectors. 3,440,663, 4-29-69, Cl. 2-209.
Beguin, Fred P., to American Optical Company. Ear protector suspension devices and the combination with headgear. 3,461,463, 8-19-69, Cl. 2-3.
Beguin, Fred P., to American Optical Corporation. Communications headset with transmitter and receiver located in a noise-shielding cup covering mouth. 3,471,642, 10-7-69, Cl. 179-1.
Behar, Claude. Jewelry comprising a plurality of members connected together by swivel means. 3,436,907, 4-8-69, Cl. 59-80.
Behar, Robert: *See*—
Talet, Pierre; and Behar, Robert,3,422,139.
Beheim, Rudolf P. Rocket propellant injection. 3,469,394, 9-30-69, Cl. 60-39.06
Behlen, Herbert P.; and Plugge, Dale L., to Behlen Manufacturing Company, Inc. Grain dryer with controlled grain passageways. 3,429,053, 2-25-69, Cl. 34-56.
Behlen Manufacturing Company: *See*—
Henke, Elmer J.; and Joseph, Gerald L., 3,441,004.
Behlen Manufacturing Company, Inc.: *See*—
Behlen, Herbert P.; and Plugge, Dale L., 3,429,053.
Behlmer, Wilbur Dale, to Deere & Company. Torsional isolator coupling. 3,485,063, 12-23-69, Cl. 64-27.
Behmlander, Gilbert A. Door straightner kit. 3,471,973, 10-14-69, Cl. 49-503.
Behn, Donald Craig: *See*—
Zenitz, Bernard L.; and Behn, Donald Craig,3,461,120.
Behna, Antoine. Sanitary slip. 3,460,535, 8-12-69, Cl. 128-288.
Behne, Neil J.; and Nanowsky, John. Mounting and operating mechanism for switches. 3,422,845, 1-21-69, Cl. 137-608.
Behney, Robert J. Rope clamp. 3,466,712, 9-16-69, Cl. 24-123.
Behr, Erich; and Hass, Hansjurgen, to Dynamit Nobel Aktiengesellschaft. Cobalt chelate catalysts in the production of polyphenylene oxides. 3,444,133, 5-13-69, Cl. 260-47.
Behr, Hans. Apparatus for selective volatilization and application of different substances. 3,458,137, 7-29-69, Cl. 239-414.
Behr, Michael I.; and Hauck, Erwin A., to Burroughs Corporation. Average speed checker for tape transport. 3,439,354, 4-15-69, Cl. 340-174.1
Behr, Michael I.: *See*—
Krossa, Kenneth D.; and Behr, Michael I.,3,430,215.
Behr, Raymond Douglas. Dow Chemical Company, The Method and apparatus for processing film having beaded portions. 3,462,053, 8-19-69, Cl. 226-6.
Behr, Samuel H.: *See*—
Chatten, Clarence K.; and Behr, Samuel H.,3,467,047.
Behrend, Gunter, to Siemens Aktiengesellschaft. Producing electrical capacitors. 3,427,196, 2-11-69, Cl. 117-200.
Behrends, Bertwin E.; and Schmitt, James L., to Caterpillar Tractor Company. Gear pump. 3,420,180, 1-7-69, Cl. 103-2.
Behrendsen, Kenneth R., to Eagle Rubber Co., Inc. Ball of masticated, vulcanized cis-1,4 polyisoprene and manufacture thereof. 3,452,986, 7-1-69, Cl. 273-58.
Behrendsen, Kenneth R., to Eagle Rubber Co., Inc. Sponge balls and their manufacture. 3,468,821, 9-23-69, Cl. 260-2.5
Behrendt, Douglas M.: *See*—
Pierce, William S.; Morrow, Andrew G.; and Behrendt, Douglas M.,3,448,465.
Behrendt, Horst H., to United States Steel Corporation. Apparatus for testing a control system for operating a mobile power unit. 3,452,276, 6-24-69, Cl. 324-73.
Behrendt, Jack B. Surgical pillow having oxygen tube supporting means. 3,482,571, 12-9-69, Cl. 128-185.
Behrendt, Werner K.: *See*—
Sedgwick, Robert K.; and Behrendt, Werner K.,3,461,472.
Behrens, Heinz: *See*—
Cremer, Gottfried; Behrens, Heinz; and Schneider, Paul,3,485,900.
Behrens, Joh. Friedrich: *See*—
Bade, Heinz Emil, 3,427,928.
Behrens, Norman A. Material mixer. 3,421,740, 1-14-69, Cl. 259-41.
Behrens, Robert L.: *See*—
Halwas, Larry E.; and Behrens, Robert L.,3,450,054.
Behrens, Robert L., to Applied Power Industries, Inc. Hydraulic motor having speed and directional control system. 3,485,047, 12-23-69, Cl. 60-53.
Behrenz, Wolfgang: *See*—
Hausweiler, Arnold; Hammann, Ingeborg; and Behrenz, Wolfgang,3,470,236.
Heiss, Rudolf; Bocker, Ernst; and Behrenz, Wolfgang,3,433,826.
Heiss, Rudolf; Bocker, Ernst; Behrenz, Wolfgang; and Unterstenhofer, Gunter,3,470,299.
Heiss, Rudolf; Hahn, Willi; Behrenz, Wolfgang; and Unterstenhofer, Gunter,3,437,684.
Muller, Gerhard; and Behrenz, Wolfgang,3,462,445.
Schrader, Gerhard; Behrenz, Wolfgang; and Hammann, Ingeborg,3,470,229.
Ugi, Ivar; Fetzer, Uwe; Unterstenhofer, Gunter; Behrenz, Wolfgang; Frohberger, Paul-Ernst; and Scheinpflug, Hans,3,422,190.
Behring, Arthur F., to Morrell, John, & Co., mesne. Depth-of-cut control means for meat trimmers and the like. 3,461,557, 8-19-69, Cl. 30-276.
Behringer, Alfred C., to Publication Corporation. Separator for folders. 3,438,624, 4-15-69, Cl. 271-64.
Behringer, Arthur J.; and Tonozzi, Stephen A., to Xerox Corporation. Method of making a smooth surfaced adhesive binder xerographic plate. 3,447,957, 6-3-69, Cl. 117-201.
Behringwerke Aktiengesellschaft: *See*—
Ackermann, Othmar, 3,420,934.
Drager, Kurt; and Ackermann, Othmar, 3,470,294.
Hertel, Heinz Wolfgang; and Reiche, Asmus, 3,444,989.
Herzberg, Kurt, 3,422,187.
Behrman, Arthur: *See*—
Hoffman, Louis; and Behrman, Arthur,3,421,787.
Behrsin, Kurt R., to Phelps Dodge Copper Products Corporation. Feed for continuous casting apparatus. 3,455,374, 7-15-69, Cl. 164-276.
Beich, Frank R., to American Hospital Supply Corporation. Male urinal. 3,479,671, 11-25-69, Cl. 4-110.
Beichler, Robert W.: *See*—
Shreve, Arthur L., III; Norris, Lyell Bayne, Jr.; and Beichler, Robert W.,3,481,453.
Beichler, Robert W.; and Hubbard, William E., to Westvaco Corporation. Shipping and storage container. 3,451,610, 6-24-69, Cl. 229-23.
Beiderwell, George E. Exploring and life saving reels. 3,423,044, 1-21-69, Cl. 242-96.
Beierlein, Berhard; and Beierlein, Ulrich. Hydraulically operated vibrator soil compactor. 3,450,012, 6-17-69, Cl. 94-48.

Beierlein, Ulrich: *See—*
Beierlein, Berhard; and Beierlein, Ulrich,3,450,012.
Beifuss, William E., to Production Machinery Corporation. Device for feeding strip material. 3,456,859, 7-22-69, Cl. 226-142.
Beightol, Leroy E. Method and application of orthopedic appliances with an ultraviolet curable plastic impregnated bandage. 3,421,501, 1-14-69, Cl. 128-90.
Beighton, George William; and Britcher, Arthur Iden, to Grieve, T., and Company Limited. Latch needles. 3,439,729, 4-22-69, Cl. 163-5.
Beikufner, Georg, to Diehl. Decimal point and zero printing mechanism for calculating machines. 3,455,504, 7-15-69, Cl. 235-60.28
Beil, Valentin E.: *See—*
Vevirit, James V.; Ihlenfeld, Francis J.; and Beil, Valentin E.,3,481,506.
Beilfuss, Freeman C., to Call-Boy Systems, Inc. TV set disconnection monitoring system. 3,469,251, 9-23-69, Cl. 340-286.
Beimfohr, Siegfried: *See—*
Schmidt, Henry K.; and Beimfohr, Siegfried,3,467,450.
Bein, Hans-Samuel: *See—*
Harms, Wolfgang; von Oertzen Klaus; Bein, Hans-Samuel; and Siegel, Edgar,3,468,879.
Beindorf, Lucian J., to Dayco Corporation. Belt drive. 3,478,609, 11-18-69, Cl. 74-229.
Beinhaur, Ernest L., to AMP Incorporated. Device to disassemble connector assemblies. 3,422,521, 1-21-69, Cl. 29-203.
Beinhaur, Ernest Lloyd: *See—*
Wahl, Frederick William; and Beinhaur, Ernest Lloyd,3,462,543.
Beinkemper, Arthur H.: *See—*
Norman, Eugene, 3,463,884.
Belrne, Patrick D., to Ethyl Corporation. Esters of (3,5-dihydrocarbyl-4-hydroxybenzyl) thio-dicarboxylic acids. 3,465,029, 9-2-69, Cl. 260-470.
Beisel, Hermann, to Heidelberger Druckmaschinen Aktiengesellschaft. Structure for clamping printing plates to a printing cylinder of a rotary printing press. 3,424,085, 1-28-69, Cl. 101-415.1
Beisenherz, Gerwin: *See—*
Keck, Johannes; Nickl, Josef; Koss, Friedrich-Wilhelm; Schraven, Eckhard; and Beisenherz, Gerwin,3,454,574.
Beisner, Klaus; Jacobs, Willi; and Stockmann, Helmut, to Klockner-Humboldt-Deutz Aktiengesellschaft. Gyratory crusher with resilient mounting of the crusher cone. 3,481,548, 12-2-69, Cl. 241-215.
Beispel, Robert: *See—*
Anderson, Thomas P.; and Beispel, Robert,3,429,101.
Wolf, Margery S.; and Beispel, Robert,3,468,606.
Beisser, Fred: *See—*
Swauger, Donald A., 3,451,709.
Beisswenger, Karl. Spindle feed mechanism for a slide. 3,425,304, 2-4-69, Cl. 82-21.
Beitchman, Burton D., to Air Products and Chemicals, Inc.5,9-Dimethyl-azabicyclo [3-3-1] nonane and process for making same. 3,467,660, 9-16-69, Cl. 260-293.
Beitler, Richard S.; Corley, Ralph C.; and Kast, Howard B., to General Electric Company. Fluid pressure control system. 3,456,881, 7-22-69, Cl. 239-265.19
Beizer, Boris, to United States of America, mesne. Rader landmass simulation. 3,446,903, 5-27-69, Cl. 35-10.4
Bejarano, Alexander V. Concealed tie back and return holder for drapery. 3,420,289, 1-7-69, Cl. 160-349.
Bekey, George A., to Beckman Instruments, Inc. Method and means of generalized integration. 3,444,361, 5-13-69, Cl. 235-183.
Belada, John, to Molino, A. R. Method and apparatus for fastening metal sheets. 3,470,596, 10-7-69, Cl. 29-21.1
Belaieff, James: *See—*
Dupeux, Cyprien Jean; and Belaieff, James,3,435,639.
Belaieff, James, to U.S. Philips Corporation, mesne. Dish-washing machines. 3,458,136, 7-29-69, Cl. 239-227.
Belak, Steven G.; and Campbell, Robert H., to Sun Oil Company. Method of preparing wax coated slow release fertilizers. 3,458,303, 7-29-69, Cl. 71-64.
Belalov, Khasan Nurievich; Shub, Vladimir Zinovjevich; and Matash, Vitaly Konstantinovich, to Nauchno-Issledovateljsky Institute Metiznoi Promyshlennosti. Method of manufacturing bimetallic wire. 3,456,332, 7-22-69, Cl. 29-474.1
Belanger, Ernest Donald: *See—*
Goldsmith, Bernard M.; Pike, Harold S., Jr.; and Belanger, Ernest Donald,3,423,674.
Belanger, James A. Finishing wheels. 3,455,068, 7-15-69, Cl. 51-337.
Belanger, Paul J.; and Richard, Edgar J., to Foster Grant Co., Inc. Method of orienting an apertured laminate against the side of a mold cavity. 3,471,609, 10-7-69, Cl. 264-320.
Belanger, William J.: *See—*
Dunham, Leroy A.; and Belanger, William J.,3,445,411.
Belart, Juan, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Caliper and friction pad support means. 3,442,354, 5-6-69, Cl. 188-73.
Belart, Juan, to Teves, Alfred, G.m.b.H. Floating-yoke disk brake for dual-network vehicle brake system. 3,465,852, 9-9-69, Cl. 188-152.
Belart, Juan, to Teves, Alfred, Maschinen- und Armaturenfabrik K.G. Wheel-brake cylinder adjuster. 3,467,226, 9-16-69, Cl. 188-196.
Belart, Juan, to Teves, Alfred, Maschinen- und Armaturenfabrik K.G. Brake system with wear-compensated means. 3,467,227, 9-16-69, Cl. 188-196.
Belasco, Melvin; Howeth, Bobby W.; Martin, David D.; and Wende, Price T., to Texas Instruments, Incorporated. Semiconductor contact alloy. 3,468,659, 9-23-69, Cl. 75-134.
Belcher, Lorne J.; and Rinkus, Robert G., to United States Steel Corporation. Control system for automotive car. 3,476,889, 11-4-69, Cl. 191-6.
Belcourt, Francis J.: *See—*
Korkowski, Vincent J.; Belcourt, Francis J.; and James, Raymond H.,3,427,601.
Belden Corporation: *See—*
Brown, Thomas L.; and Vance, Paul E., 3,439,112.
Belden, Katherine Arnel: *See—*
Belden, William Perry a/k/a Belden, Perry,3,468,260.
Belden Manufacturing Company: *See—*
Sharp, Robert E.; and Miracle, Roland, 3,439,111.
Belden, Merland C., to Louver Manufacturing Co., Inc. Angular adjustable roof tubular coupling for mounting turbine ventilator. 3,460,855, 8-12-69, Cl. 285-44.
Belden, Merland C., to Lower Manufacturing Co., Inc. Ridge type roof ventilator device. 3,481,263, 12-2-69, Cl. 98-42.
Belden, Robertson L. Concrete pile and joint. 3,465,532, 9-9-69, Cl. 61-59.
Belden, William Perry a/k/a Belden, Perry, deceased0 (by Belden, Katherine Arnel; executrix). Rotary pump with axially movable radial vanes. 3,468,260, 9-23-69, Cl. 103-139.
Belder Trust: *See—*
Otto, Fritz, 3,429,350.
Otto, Fritz, 3,443,614.
Otto, Fritz, 3,450,181.
Belet, Joseph J., to International Business Machines Corporation. Analog to digital converter. 3,422,424, 1-14-69, Cl. 340-347.
Belfi, Donald E.: *See—*
Guida, Thomas J., 3,473,083.
Belfield, Robert Earle: *See—*
Pall, David B.; Belfield, Robert Earle; Rosenberg, David J.; and Vogel, Arthur C.,3,446,684.
Belfield, Robert E.; and Vogel, Arthur C., to Certain-Teed Saint Gobain Insulation Corporation. Equipment for use in laying down glass fiber blanket. 3,444,028, 5-13-69, Cl. 156-371.
Belfor, Mikhail Gershovich; and Saprykin, Jury Ivanovich. Rail-type apparatus for electro-slag welding of metal. 3,466,421, 9-9-69, Cl. 219-126.
Belfort, Alan M., to FMC Corporation. Method of preparing a stable wax dispersion using β-1,4 Glucan. 3,442,676, 5-6-69, Cl. 106-271.
Belina, Thomas E., to Harper & Row Publishers Incorporated. Instruction simulator. 3,482,330, 12-9-69, Cl. 35-19.
Belisle, Brice. Dispenser combination for liquids. 3,438,551, 4-15-69, Cl. 222-182.
Belitchenko, Valentina Ilinichna: *See—*
Polovets, Lidia Mikhailovna; Belitchenko, Valentina Ilinichna; and Legut, Ljudmila Vasilievna,3,444,587.
Belk, Earl H. Head rest for vehicle seat. 3,429,615, 2-25-69, Cl. 297-410.
Belk, Wilber C., to FMC Corporation. Fruit processing apparatus. 3,429,257, 2-25-69, Cl. 100-213.
Belk, Wilber C., to FMC Corporation. Article aligning device and method. 3,434,583, 3-25-69, Cl. 198-33.
Belk, Wilber C.; Willis, Beuford N.; and Mulford, Charles T., to FMC Corporation. Fruit handling apparatus. 3,448,845, 6-10-69, Cl. 198-33.
Belke Manufacturing Company: *See—*
Vitacco, Nicholas P., 3,432,419.
Belke, William H.: *See—*
Page, Russell D.; Klingaman, Dean C.; Belke, William H.; Crayton, John W.; and Scholl, Rolland D.,3,486,564.
Belkin, Nathan L., to Angelica Corporation. Surgical hospital garmet. 3,470,568, 10-7-69, Cl. 2-114.
Belko, William R., Jr., to Vitramon, Incorporated. Electrical capacitor. 3,452,257, 6-24-69, Cl. 317-261.
Belko, William R., Jr.; Cobb, Thomas F.; and Varsane, Robert G. Electrical capacitor. 3,466,513, 9-9-69, Cl. 317-258.
Bell & Howell Company: *See—*
Alvarez, Luis W., 3,434,771.
Badalich, Frank C., 3,469,910.
Balint, Andrew; Bixby, William E.; and Tyler, Len A., 3,424,579.
Balint, Andrew; and Wohlrab, Hans Christoph, 3,476,477.

Bartusek, Robert J.; and Czerna, Aladar L., 3,475,589.
Bell, Irving J.; Robinson, Charles F.; and Willardson, Robert K., 3,483,028.
Bell, Norton W., 3,459,962.
Bell, Norton W., 3,469,029.
Bishop, Walter F.; and Bookless, Goerge W., 3,447,798.
Bishop, Walter F., 3,447,799.
Bornemisza, Elmer S., 3,425,832.
Bradt, Gordon E., 3,467,339.
Branigan, Alan E. J., 3,424,523.
Brown, Richard P.; Lancor, Joseph H., Jr.; and Rak, Arthur, 3,457,006.
Brubaker, Wilson M., 3,421,035.
Brubaker, Wilson M., 3,473,018.
Brubaker, Wilson M., 3,473,019.
Brubaker, Wilson M., 3,473,020.
Brubaker, Wilson M.; and Berry, Clifford E., 3,478,204.
Call, Daniel D., 3,424,520.
Call, Daniel D., 3,442,503.
Call, Daniel D., 3,449,962.
Call, Daniel D., 3,449,963.
Call, Daniel D., 3,459,473.
Call, Daniel D., 3,461,255.
Call, Daniel Dale, 3,424,522.
Cherniavskyj, Jaroslav, 3,464,643.
Cross, Anthony Leonard, 3,472,066.
Cunningham, Patrick J., 3,454,167.
Cunningham, Patrick J., 3,479,113.
Dann, Bert H., 3,425,000.
Dann, Bert H., 3,426,284.
Dann, Bert H., 3,443,037.
Davidson, Richard M.; and Reekie, James, 3,450,468.
Davidson, Richard M., 3,477,141.
Engel, Willi G., 3,454,328.
Gould, Irwin M.; and Moe, Gerald A., 3,477,563.
Gould, Irwin M.; and Moe, Gerald A., 3,477,785.
Gross, Maynard C.; Gawin, Adolph J.; and Smitzer, Louis A., 3,446,552.
Henriksen, Elmer C.; and Reekie, James, 3,454,714.
Hines, Walter; Bixby, William E.; and Quateman, Joseph I., 3,424,640.
Hull, Charles W., 3,479,504.
Jacobs, John H.; and Robinson, Charles F., 3,427,629.
John, Robert S., Jr., 3,450,018.
Johnson, Edwin S., 3,432,234.
Johnston, Robert F., 3,459,471.
Jorgensen, Lester V.; and Kerstein, Melvin T., 3,427,101.
Jorgensen, Lester V., 3,469,753.
Kenney, Jerome G., 3,469,900.
Koppensteiner, Alfred H., 3,424,521.
Kral, Fred G., 3,469,847.
La Plante, Dale E., 3,483,428.
Lemke, James U., 3,449,744.
Orsinger, Winston A., 3,423,900.
Reekie, James; and Thurston, Edward G., 3,440,341.
Reekie, James, 3,455,221.
Roberson, Leslie L., 3,486,709.
Rydstedt, Simon D., 3,437,029.
Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., 3,484,100.
Smitzer, Louis A.; Gawin, Adolph J.; Rempala, Chester S.; and Zis, Jerome C., 3,438,323.
Smitzer, Louis A.; and Porazinski, Robert F., 3,442,581.
Smitzer, Louis A.; Tyler, Len A.; Hines, Walter; and Bixby, William E., 3,442,585.
Smitzer, Louis A.; and Yohana, Andrew I., 3,475,091.
Sturrock, Francis C., 3,445,155.
Thurston, Edward G., 3,456,069.
Uterhart, Philip E., 3,459,050.
Willardson, Robert K.; and Robbins, Harry, 3,443,167.
Yamada, Yoshikazu; and Garland, Thomas H., 3,476,562.
Yamada, Yoshikazu; and Storm, Lester F. M., 3,485,629.
Zimmerman, Michel Tone, 3,463,946.

Bell Aerospace Corporation: *See—*
Barr, Jeffrey C., 3,481,424.
Bowen, Charles W., Jr.; and Stapper, William R., 3,474,819.
Brent, Robert G., 3,460,440.
Brent, Robert G., 3,478,777.
De Pauw, Francis E., 3,420,265.
Drees, Jan M., 3,436,040.
Gerhardt, Lester A.; Goerner, Johannes G.; and Powell, Frederic D., 3,435,422.
Gray, Samuel A., 3,426,780.
Jenney, Gavin D., 3,426,650.
Jenney, Gavin D., 3,437,312.
Jenney, Gavin D., 3,447,555.
Jenney, Gavin D., 3,455,318.
Mackenzie, Neil J.; and Neathery, William D., 3,457,997.
McMahon, Emmett P., 3,432,833.
Paine, Michael R., 3,486,717.
Rodriguez, George L.; and Pitt, Richard W., 3,434,546.
Rosin, Seymour, 3,442,575.
Rosin, Seymour; and Kaestner, Paul T., 3,459,465.
Sawicki, Henry E.; and Drees, Jan M., 3,451,484.
Schlitt, Helmut W. E., 3,442,143.
Schmon, Franz, 3,461,780.
Spivey, Richard F.; and Drees, Jan M., 3,467,197.
Stepp, Thomas B., 3,423,011.
Wood, Derek, 3,426,792.

Bell, Alan; and Strickland, Thomas Howard, to Eastman Kodak Company. Partially hydrated titanium dioxide catalyst for polyester preparation. 3,463,742, 8-26-69, Cl. 252-430.

Bell, Alan: *See—*
Tholstrup, Clarence E.; Bell, Alan; and Kibler, Charles J.,3,466,323.

Bell, Alexander, to Stromberg-Carlson Corporation. Method of manufacturing pin faceplate. 3,453,710, 7-8-69, Cl. 29-25.14

Bell, Alexander, to Stromberg-Carlson Corporation. Self aligning electron gun construction. 3,462,629, 8-19-69, Cl. 313-2.

Bell, Benjamin P.; and Roberts, Hugh H., to International Minerals & Chemical Corporation. Method for sampling solids-containing solutions. 3,437,452, 4-8-69, Cl. 23-309.

Bell, Bryan: *See—*
Murphy, Thomas L., Jr., 3,425,897.

Bell, Charles C., to Leesona Corporation. Bobbin. 3,420,467, 1-7-69, Cl. 242-118.3

Bell, Charles C., to Leesona Corporation. Filled bobbin. 3,423,046, 1-21-69, Cl. 242-164.

Bell, Charles C., to Leesona Corporation. Apparatus for processing yarn. 3,431,719, 3-11-69, Cl. 57-108.

Bell, Charles C.; and Jobin, Alvin H., to Allied Chemical Corporation, mesne. Automatic yarn splicer. 3,477,217, 11-11-69, Cl. 57-22.

Bell, Charles C.; and Niederer, Kurt, to Leesona Corporation. Strand twisting apparatus. 3,445,995, 5-27-69, Cl. 57-34.

Bell, Christy W., to General Electric Company. Circuit breaker with high speed circuit restoring means. 3,462,646, 8-19-69, Cl. 317-22.

Bell, David M.; and Bell, Floyd W., to Buckeye Stamping Company, The. Circuit board receiver and retainer. 3,476,982, 11-4-69, Cl. 317-101.

Bell, Donald K.; and Brown, Graham Edward, to Union Carbide Canada Limited. Simultaneous refining of zinc and maganese dioxide. 3,438,878, 4-15-69, Cl. 204-83.

Bell, Donald L.: *See—*
Deinken, Herman P.; Hill, Jack; Bell, Donald L.; and Zastrow, John A.,3,485,360.

Bell, Edward R.: *See—*
Blytas, George C.; Bell, Edward R.; and Dunlop, Arthur K.,3,449,240.
Slott, Robert S.; Bell, Edward R.; and Pilgram, Kurt H. G.,3,478,044.

Bell Electric Company: *See—*
Zerwes, Paul J., 3,438,534.
Zerwes, Paul J., 3,439,108.

Bell, F. W., Inc.: *See—*
Chapman, Richard M.; and Yore, Donald M., 3,450,986.
Smith, George H., 3,449,664.

Bell, Floyd W.: *See—*
Bell, David M.; and Bell, Floyd W.,3,476,982.

Bell, Francis R.; and Menzel, Horst F., to Gulf General Atomic Incorporated, mesne. Vapor generator. 3,456,621, 7-22-69, Cl. 122-32.

Bell, Frank W., to Standard Screw Company. Faucet valve mixing notch. 3,428,088, 2-18-69, Cl. 137-625.17

Bell, Fred E., Jr., to Dow Chemical Company, The. Flexible film bag with bottom gusset. 3,438,567, 4-15-69, Cl. 229-57.

Bell, Fred H.; and Kennedy, Houston E. Rear view mirror anti-glare device. 3,454,329, 7-8-69, Cl. 350-283.

Bell, George E.: *See—*
Arnold, Harmon W.; and Bell, George E.,3,451,169.

Bell, George; and O'Connell, Anthony James, to Metal Box Company Limited, The. Centrifugally operating electrodeposition apparatus and method of use. 3,476,666, 11-4-69, Cl. 204-181.

Bell, Harold B.; and Doyle, George A., to Motorola, Inc. Multiple lead semiconductor device with plastic encapsulation supporting such leads and associated elements. 3,444,440, 5-13-69, Cl. 317-234.

Bell, Harold M., Jr.: *See—*
Thrasher, Howard G.; Rickords, Tommy J.; and Bell, Harold M., Jr.,3,481,208.

Bell, Harvey: *See—*
Marotta, Nicholas G.; and Bell, Harvey,3,464,857.
Marotta, Nicholas G.; Bell, Harvey; and Ronai, Kenneth S.,3,482,984.

Bell, Irving J.; Robinson, Charles F.; and Willardson, Robert K., to Bell & Howell Company. Preparation of light sensitive device of enhanced photoconductive sensitivity. 3,483,028, 12-9-69, Cl. 117-224.

Bell, James C., to Goodyear Aerospace Corporation. Extendable contoured structure. 3,481,569, 12-2-69, Cl. 244-123.

Bell, James C.; and Jarvis, James K., to Goodyear Aerospace Corporation. Inflatable device for antenna, support, and lifting. 3,484,788, 12-16-69, Cl. 343-880.
Bell, John Harold; and Daniels, Everett Eugene, to WEPCO. Thermal-barrier between inner and outer frames of double frame window structure. 3,436,884, 4-8-69, Cl. 52-202.
Bell, John T.; and Jaeger, Theodore D., to Container Corporation of America. Apparatus for and method of forming a multiple-piece container. 3,465,652, 9-9-69, Cl. 93-55.
Bell, John T.; and Jaeger, Theodore D., to Container Corporation of America. Method and machine for forming edge reinforcing member on a cover of a container. 3,486,422, 12-30-69, Cl. 93-49.
Bell, John, to Muirhead & Co., Limited. Stabilizing arrangements for floating bodies. 3,425,384, 2-4-69, Cl. 114-125.
Bell, John, to Muirhead & Co. Limited. Active tank stabilizers for floating bodies. 3,452,705, 7-1-69, Cl. 114-125.
Bell, Joseph P., to Design Progress Inc. Automotive side-marker lamps. 3,454,757, 7-8-69, Cl. 240-8.2
Bell, Kenneth; and Grossen, Harry W., to National Dairy Products Corporation. Variegator for ice cream and the like. 3,477,393, 11-11-69, Cl. 107-1.
Bell, Larry S. Transportation system. 3,421,450, 1-14-69, Cl. 104-20.
Bell, Lawrence K., to Honeywell Inc. Control apparatus. 3,454,796, 7-8-69, Cl. 307-305.
Bell, Leo R.; and Peterson, Joseph A., to TRW Inc. Capillary tube feed for rockets. 3,429,124, 2-25-69, Cl. 60-258.
Bell, Loren D.Pipeline welder's tent. 3,452,764, 7-1-69, Cl. 135-1.
Bell, Malcolm Rice, to Sterling Drug Inc. Certain 2-,4-,5-,6- or 7-azaindolyl-lower-alkyl- amidoximes, -amidines and -guanidines. 3,478,039, 11-11-69, Cl. 260-295.
Bell, Malcolm R., to Sterling Drug Inc. Pyrrolyl-lower-alkyl-amidoximes. 3,420,847, 1-7-69, Cl. 260-326.3
Bell, Malcolm R., to Sterling Drug Inc. 3-Indolylmethylguanidine. 3,428,653, 2-18-69, Cl. 260-326.15
Bell, Malcolm R., to Sterling Drug Inc. Indolyl-lower-alkyl-amidoximes. 3,472,872, 10-14-69, Cl. 260-326.15
Bell, Marion S.; Montrose, Anthony Alan; and Spoon, Bill Hugh, to Phelps Dodge Refining Corporation. Apparatus for simultaneously pressing a plurality of cathode sheets. 3,430,479, 3-4-69, Cl. 72-400.
Bell, Matthew M., to Radio Corporation of America. Method of fabricating semiconductor devices. 3,429,030, 2-25-69, Cl. 29-580.
Bell, Norton W., to Bell & Howell Company. N-stage counter circuit for counting n input pulses. 3,459,962, 8-5-69, Cl. 307-220.
Bell, Norton W., to Bell & Howell Company. Apparatus for reproducing video signals in a reversed line scan. 3,469,029, 9-23-69, Cl. 178-6.6
Bell, Oliver N.,: *See*—
Morris, William Whitby, 3,482,807.
Bell, Paul Hadley: *See*—
Derenzo, Edward Clarence; and Bell, Paul Hadley,3,444,045.
Bell, Persa R.; and Harris, Cecil C., to United States of America, Atomic Energy Commission. Color recording averaging light intensity meter. 3,441,351, 4-29-69, Cl. 356-175.
Bell, Peter Martin, to Roevac-Bell Limited. Orienting apparatus. 3,455,424, 7-15-69, Cl. 193-43.
Bell, Ramsay M., to Hammond Machinery Builders, Inc. Belt type electro-chemical (or electrolytic) grinding machine. 3,448,023, 6-3-69, Cl. 204-143.
Bell, Richard E., to American Machine & Foundry Company. Clapper type relay with improved armature. 3,437,962, 4-8-69, Cl. 335-270.
Bell, Richard J.; Campbell, Robert L.; Brust, Albert E.; and Custer, Lloyd R., to Anderson, Clayton, & Co. Liquid shortening process. 3,455,699, 7-15-69, Cl. 99-118.
Bell, Robert E.; Hall, Donivan L.; and Loshbough, Richard C., to Reliance Electric and Engineering Company, The, mesne. Elevator motor speed control including a high gain forward loop and lag-lead compensation. 3,435,916, 4-1-69, Cl. 187-29.
Bell, Robert E.: *See*—
Susor, William C.; and Bell, Robert E.,3,459,271.
Bell, Robert G.: *See*—
Bauer, Howard C.; and Bell, Robert G.,3,462,059.
Bell, Robert P., Jr.: *See*—
Carter, Ernest P.; and Bell, Robert P., Jr.,3,425,460.
Bell, Robert Valentine: *See*—
Rew, Ian Arthur; Bell, Robert Valentine; and Cooper, Raymond,3,428,897.
Bell, Rodney P., to Delworth, Secord, Meagher and Associates. Capacitance void meter. 3,453,509, 7-1-69, Cl. 317-248.
Bell, Ronald L.: *See*—
Bates, Clayton W., Jr.; and Bell, Ronald L.,3,473,066.
Bell, Rubie C.: *See*—
Murphy, Thomas L., Jr., 3,425,897.
Bell, Stanley C., to Anchor Chemical Company Limited, The. 2-Amino-α-substituted-benzylidencamines. 3,429,913, 2-25-69, Cl. 260-490.
Bell, Stanley C., to American Home Products Corporation. 2-Amino-α-substituted-benzylideneamines. 3,441,607, 4-29-69, Cl. 260-562.
Bell, Stanley C., to American Home Products Corporation. 5-Aryl-3-carboxyacyloxy-2H-1,4-benzodiazepin-2-ones and salts thereof. 3,445,458, 5-20-69, Cl. 260-239.3
Bell, Stanley C., to American Home Products Corporation. 5-Aroyl-1,2,4-benzothiadiazine-1,1-dioxides. 3,449,337, 6-10-69, Cl. 260-243.
Bell, Stanley C., to American Home Products Corporation. 2-Alkanoylamido-1-hydroxypyrrolo[1,2-α]- quinazolines. 3,459,754, 8-5-69, Cl. 260-256.4
Bell, Stanley C., to American Home Products Corporation. Process for preparing 3-acyloxy-1,3-dihydro-5- aryl-2H-1,4-benzodiazepin-2-ones. 3,468,878, 9-23-69, Cl. 260-234.3
Bell, Stanley C., to American Home Products Corporation. 1-Substituted-2,3,3a-4-tetrahydro-1H- pyrrolo [2,1-c] [1,2,4] benzothiadiazine,5,5- dioxide. 3,471,483, 10-7-69, Cl. 260-243.
Bell, Stanley C.; and Conklin, George L., to American Home Products Corporation. Hydantoin compounds and methods of preparation. 3,452,041, 6-24-69, Cl. 260-309.5
Bell, Stanley C.; and Conklin, George L., to American Home Products Corporation. 5-(m-Sulfamoylphenyl)-1,3-dihydro-2H-1,4-benzodiazepin-2-one. 3,458,501, 7-29-69, Cl. 260-239.3
Bell, Stanley C.; and Gochman, Carl, to American Home Products Corporation. Acetanilido derivatives and method for preparing same. 3,423,459, 1-21-69, Cl. 260-562.
Bell, Stanley C.; and Wei, Peter H. L., to American Home Products Corporation. 1-Alkyl-5-oxo-5H-thiazolo [3,2-a] 5 quinazoline-2-carboxylic acid esters. 3,471,497, 10-7-69, Cl. 260-251.
Bell, Stanley C.; and Wei, Peter H. L., to American Home Products Corporation. Pyrrolo(1,2-α-quinazoline-1,5- (2H,3H)diones. 3,475,432, 10-28-69, Cl. 260-251.
Bell, Stanley C.: *See*—
McCaully, Ronald J.; and Bell, Stanley C.,3,474,093.
McCaully, Ronald J.; Bell, Stanley C.; and Russell, Peter B.,3,448,116.
Wei, Peter H. L.; and Bell, Stanley C.,3,453,266.
Wei, Peter H. L.; and Bell, Stanley C.,3,453,289.
Wei, Peter H. L.; and Bell, Stanley C.,3,461,122.
Wei, Peter H. L.; and Bell, Stanley C.,3,470,181.
Wei, Peter H. L.; and Bell, Stanley C.,3,475,424.
Wei, Peter H. L.; and Bell, Stanley C.,3,475,426.
Bell Telephone Company of Canada: *See*—
Fontaine, Laurent J., 3,430,009.
Bell Telephone Laboratories, Incorporated: *See*—
Abbott, Henry H.; Hohmann, Lawrence A., Jr.; and Wells, George W., 3,420,963.
Abele, Thomas A.; and Wang, Han-Chiu, 3,466,573.
Abernathy, John L., 3,479,604.
Abert, Charles; Runyon, John P.; and Zarouni, Alfred, 3,471,647.
Albrecht, Erwin H., 3,435,150.
Anand, Ram P., 3,474,284.
Andersen, Johan R.; Smith, Arnold R.; and Williamson, Andrew H., Jr., 3,426,308.
Anderson, Frederick N.; Kennedy, Richard N.; and Reed, Robert A., 3,424,869.
Anderson, Robert E., 3,466,505.
Androshuk, Alex; Bergh, Arpad A.; and Erdman, Wiliam C., 3,424,661.
Androshuk, Alex; Bergh, Arpad A.; and Erdman, William C., 3,484,358.
Armstrong, Douglas B., 3,484,700.
Arnaud, Jacques A., 3,460,046.
Arthur, John R., Jr.; Morton, Jack A.; Pfann, William G.; and Wagner, Richard S., 3,466,485.
Ashkin, Arthur, 3,479,614.
Ashley, Francis R., 3,443,249.
Aslaksen, Erik W., 3,477,028.
Averill, Robert M., Jr., 3,420,961:
Avery, John R., 3,452,330.
Axelson, Allen L., 3,430,208.
Babusci, Louis D.; Cretella, Biagio A.; Feder, David O.; and Koontz, Donald E., 3,434,883.
Baker, William E.; and Foltz, Daniel M., 3,437,928.
Baldwin, John A., Jr.; and Bobeck, Andrew H., 3,434,125.
Ballman, Albert A.; and Van Uitert, Le Grand G., 3,423,686.
Ballman, Albert A., 3,470,100.
Barash, Meyer; and Brostrup-Jensen, Per, 3,470,331.
Barbato, Robert E.; and Davis, David T., 3,436,488.
Barber, Mark R.; and Fisher, Reed E., 3,460,122.
Barker, Alfred S., Jr.; and Verleur, Hans W., 3,484,722.
Barlow, Malcolm; and Planting, Peter J., 3,431,377.
Barnes, Richard R., 3,450,847.
Batdorf, Robert L.; and Lee, Charles A., 3,466,441.
Bauer, Erich O.; Fox, Paul E.; and Mac Pherson, William F., 3,433,858.
Baumgartner, Robert G.; and Graff, Harry J., 3,466,380.
Baumgartner, Robert G., 3,480,721.
Beadle, William E.; and Benson, Kenneth E., 3,473,980.
Becker, Floyd K., 3,434,056.
Becker, Floyd K., 3,443,229.
Becker, Floyd K., 3,444,482.

Becker, Floyd K., 3,458,815.
Becker, Floyd K.; and Lescinsky, Frank W., 3,462,687.
Becker, Floyd K.; and Rudin, Harry R., Jr., 3,466,538.
Becker, FloydK.; and Holzman, Louis N., 3,439,275.
Benjamin, James M., 3,425,736.
Benowitz, Paul; and Kahlbrock, Heinz, 3,443,022.
Benowitz, Paul; Ignatowitz, Michael; and Tutelman, David M., 3,466,397.
Bergh, Arpad A.; and van Gelder, Willem, 3,479,237.
Berglund, Carl N., 3,424,934.
Berglund, Carl N.; and Kahng, Dawon, 3,462,700.
Bies, Frank R., 3,456,214.
Billhardt, Roger A., 3,448,435.
Bishop, John D.; 3,432,741.
Bishop, John D., 3,435,324.
Bishop, John D.; Hasson, Murray R.; and Kadri, Fred V., 3,461,405.
Blane, Leslie L., 3,436,483.
Blane, Leslie L., 3,436,487.
Bleickardt, Werner, 3,459,973.
Bobeck, Andrew H., 3,425,035.
Bobeck, Andrew H., 3,428,956.
Bobeck, Andrew H., 3,447,140.
Bobeck, Andrew H., 3,448,441.
Bobeck, Andrew H., 3,457,551.
Bobeck, Andrew H., 3,460,104.
Bobeck, Andrew H., 3,460,108.
Bobeck, Andrew H.; and Kaenel, Reginald A., 3,460,112.
Bobeck, Andrew H.; Gianola, Umberto F.; Sherwood, Richard C.; and Shockley, William, 3,460,116.
Bobeck, Andrew H., 3,470,546.
Bobeck, Andrew H., 3,470,547.
Bobeck, Andrew H., 3,471,840.
Bobeck, Andrew H.; and Smith, James L., 3,479,654.
Boddy, Philip J.; and Frova, Andrea F., 3,428,811.
Boddy, Philip J.; and Frova, Andrea F., 3,462,712.
Bogert, Bruce P.; and Hirsch, Peter, 3,428,893.
Boll, Harry J., 3,440,351.
Boll, Harry J., 3,440,352.
Boll, Harry J., 3,440,363.
Bond, Walter L.; Duguay, Michel A.; and Rentzepis, Peter M., 3,484,721.
Bonner, William A.; Geusic, Joseph E.; and Van Uitert, Le Grand G., 3,453,561.
Bonyhard, Peter I.; and Gianola, Umberto F., 3,453,609.
Bonyhard, Peter I., 3,470,545.
Bonyhard, Peter I., 3,479,657.
Borenstein, David P.; and Wright, Arden B., 3,444,474.
Bowers, Klaus D.; and Morton, Jack A., 3,421,154.
Bowers, Klaus D., 3,479,651.
Boyle, Willard S.; and Verleur, Hans W., 3,473,602.
Brady, Paul T., 3,422,232.
Brady, Paul T., 3,483,941.
Braga, Felix J., 3,466,561.
Braund, Reed J.; and Weinberg, Seymour B., 3,441,679.
Breeden, Robert L.; and Rickert, Richard M., 3,424,870.
Bridges, Thomas J.; and Hempstead, Charles F., 3,431,489.
Bridges, Thomas J., 3,465,358.
Briggs, Thomas H.; and Dudley, Richard H., 3,424,532.
Brockway, Dennis V., 3,444,398.
Brolin, Stephen J., 3,461,244.
Brooks, Chester E.; Henry, James L.; and Meyerle, John A., 3,435,159.
Brooks, Chester E.; Henry, James L.; Linhart, Peter B.; Markthaler, Grace E.; Massoni, Donald R.; and Meyerle, John A., 3,462,557.
Brown, Earl F., 3,422,227.
Brown, James N., Jr.; and Newhall, Edmunde E., 3,457,553.
Brown, Walter L.; and Miller, Gabriel L., 3,421,091.
Brown, William J., 3,444,543.
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K., 3,426,158.
Brush, Stanley E.; and Crouse, Parker E., 3,454,826.
Bryant, Herbert W.; Hazell, Norman C.; and Mosing, Lionel W., 3,440,365.
Buchsbaum, Solomon J.; Mc Fee, James H.; and Tien, Ping K., 3,457,417.
Buck, Thomas M.; and Dalton, John V., 3,458,782.
Budlong, Albert H.; Calhoun, Edward T. D.; and Goeller, Leopold F., Jr., 3,441,678.
Burckhardt, Christoph B.; and Pennington, Keith S., 3,435,244.
Burckhardt, Christoph B.; and Collier, Robert J., 3,483,513.
Burgess, Paul N.; Cardwell, Robert E.; and Remski, Frank R., 3,476,956.
Burton, Herbert O.; and Watts, Robert N., 3,475,723.
Busala, Alessandro; Stokes, Rembert R.; and Strommen, Lawrence A., 3,435,146.
Byrnes, Peter A., Jr.; and Lepselter, Martin P., 3,479,269.
Calkin, Edwin T.; and Ianniello, Joseph W., 3,430,107.
Calkin, Edwin T.; and Ianniello, Joseph W., 3,458,711.
Campo, James A., 3,483,610.
Carlson, David E.; and Robinson, Edgar R., 3,427,587.
Caron, Lionel, 3,440,493.
Casey, Horace C., Jr.; and Panish, Morton B., 3,485,685.
Cassady, Charles G., 3,458,796.
Chang, James T. H., 3,461,440.
Chase, Albert J.; and Hammer, Karl E., 3,439,130.
Chegwidden, Raymond A.; Cohen, Howard M.; and Gilbert, William F., Jr., 3,479,292.
Chinlund, Thomas J., 3,440,618.
Chinnock, Edwin L., 3,423,593.
Chun, Ping Sun, 3,466,527.
Chynoweth, Alan G., 3,428,833.
Clark, James E.; and Ross, Ian M., 3,465,943.
Clement, Frank J., 3,437,758.
Clement, George F.; Compton, Harry B.; Stagg, Uberto K., Jr.; and Zebe, Charles W., 3,441,681.
Cogelin, Nicholas J.; Martin, Samuel M.; and Ramsey, Raymond B., 3,433,884.
Coker, Cecil H., 3,437,757.
Coker, Cecil H., 3,439,122.
Colbow, Konrad; Garrett, Charles G. B.; and Thomas, Donald E., 3,435,213.
Collier, Robert J., 3,484,147.
Connell, Joseph B., 3,471,686.
Conrath, Jules R., 3,435,436.
Copeland, John A., III, 3,477,029.
Courtney-Pratt, Jeofry S.; and Hargrove, Logan E., 3,435,230.
Creasy, Fred K.; Horlacher, Robert L.; Logan, Mason A.; Smith, Larrabee M.; and Young, William Rae, Jr., 3,440,337.
Crowell, Merton H.; and Morton, Jack A., 3,428,850.
Crowell, Merton H.; and Gordon, Eugene I., 3,440,476.
Crowell, Merton H.; and Gordon, Eugene I., 3,440,477.
Crowell, Merton H., 3,467,880.
Crowell, Merton H.; and Maydan, Dan, 3,483,942.
Crowson, Fred B.; and Groth, George S., 3,435,142.
Cughbert, John D.; and Thomas, David G., 3,462,630.
Cunningham, Peter B., 3,461,397.
Curtis, Hazen, III; and Tuchen, Gerd A., 3,487,340.
Custer, Stroud S., Jr., 3,437,921.
Damen, Theodoor C.; Leite, Rogerio C. C.; and Porto, Sergio P. S., 3,434,779.
Damiano, Henry; and Rainone, Louis C., 3,479,466.
Davidson, Evan E.; and Regitz, William M., 3,460,092.
Davis, John H., 3,476,875.
Day, James F., 3,480,917.
De Lange, Owen E., 3,447,856.
De Loach, Bernard C., Jr.; Gummel, Hermann K.; and Scharfetter, Donald L., 3,426,295.
De Loach, Bernard C., Jr., 3,448,415.
Denend, Frank G., 3,446,921.
Denton, Richard T.; and Varnerin, Lawrence J., Jr., 3,435,234.
Denton, Richard T., 3,462,212.
Dermond, Franklin, 3,482,060.
DeVries, G. John, Jr., 3,433,889.
Di Marcello, Frank V.; and Treptow, Arnold W., 3,470,002.
Di Piazza, Gerald C., 3,452,279.
Dick, George W.; and Farmer, Wayne D., 3,438,008.
Dick, George W., 3,452,335.
Dietrich, Norman R., 3,483,489.
Dillon, Joseph F., Jr.; Le Craw, Roy Conway; von Philipsborn, Henning; and Wernick, Jack H., 3,480,409.
Dillon, Joseph F., Jr.; Johnson, Leo F.; and Remeika, Joseph P., 3,480,877.
Dolling, Jens C., 3,420,264.
Dore, Arthur J.; Herndon, John A.; and Wasserman, Norman, 3,447,036.
Dougherty, Thomas F., Jr.; Mac Nutt, William J.; and McKelvey, William J., 3,476,980.
Dow, Robert J.; Feldman, David; Lee, Samuel C.; Mitchell, Edward S., Jr.; and Wyndrum, Ralph W., Jr., 3,460,026.
Downing, Randall W.; and Hass, Ronald J., 3,430,202.
Dudley, Homer W., 3,470,323.
Duguay, Michel A.; Giordmaine, Joseph A.; and Rentzepis, Peter M., 3,453,429.
Dunnican, William O.; and Larisch, Richard W., 3,424,899.
Eddy, Thomas W.; and Harrington, George E., 3,421,114.
Edington, John E., 3,428,751.
Edwards, Roger; and Perron, Paul P., Jr., 3,464,868.
Eisner, Edward, 3,454,778.
Eisner, Edward, 3,480,340.
Embree, Milton L.; Haag, Arthur V.; and Vedder, Dietrih, 3,421,030.
Embree, Milton L.; Hamilton, Billy H.; and Metzler, Clair G., 3,483,464.
Emshwiller, Mac Lellan, 3,466,112.
Engelbrecht, Rudolf S., 3,421,118.
Engelbrecht, Rudolf S., 3,458,836.
Enloe, Louis H.; and Rodda, John L., 2nd, 3,437,955.
Epstein, Barry M., 3,428,756.
Ermanis, Felix; and Schwartz, Bertram, 3,484,312.
Eubanks, John M., 3,435,252.

Eubanks, John M., 3,439,286.
Evans, James G.; and Grant, Dwight W., 3,466,545.
Ewin, James C., 3,420,958.
Farrow, Cecil W., 3,439,278.
Farrow, Cecil W., 3,477,043.
Finch, Tudor R.; and Waaben, Sigurd G., 3,484,764.
Fischer, James L.; and Hostetler, Willard E., 3,447,096.
Fischer, James L.; and Strommen, Lawrence A., 3,479,469.
Fischer, Robert F., 3,439,352.
Fisher, Reed E., 3,479,528.
Flanagan, James L., 3,428,748.
Flanagan, James L., 3,440,350.
Flanagan, James L.; Golden, Roger M.; and Schroeder, Manfred R., 3,466,547.
Flanagan, James L., 3,476,880.
Flanagan, James L.; and Schroeder, Manfred R., 3,484,556.
Fleury, Paul; Patel, Chandra K. N.; Slusher, Richart E.; and Yafet, Yako, 3,470,453.
Focarile, Joseph P., 3,459,998.
Forde, John P.; and Hochgraf, Lester, 3,458,661.
Fox, Arthur G.; and Kibler, Lynden U., 3,430,158.
Fraser, John M.; and Long, Norwood G., 3,466,398.
Friedman, Arthur D.; and Menon, Premachandran R., 3,484,701.
Friedman, David, 3,439,190.
Fritschi, Walter W., 3,450,843.
Fritschi, Walter W., 3,452,220.
Fuchs, George L.; and Mullin, Francis J., 3,485,467.
Gaines, Richard S.; and Lee, Chi-Yuan, 3,475,733.
Gallaher, Lee E., 3,439,340.
Garrett, Charles G. B., 3,436,143.
Gaunt, Wilmer B., Jr., 3,423,538.
Gaunt, Wilmer B., Jr., 3,480,742.
Gaunt, Wilmer B., Jr., 3,480,883.
Geller, Seymour; and Nesbitt, Ethan A., 3,444,084.
Genke, Richard M.; and Harding, Philip A., 3,484,763.
Germanton, Charles E., 3,475,932.
Geusic, Joseph E.; and Singh, Shobha, 3,453,604.
Gewartowski, James W., 3,447,102.
Gianola, Umberto F.; Kaenel, Reginald A.; and Scovil, Henry E. D., 3,430,001.
Gianola, Umberto F., 3,466,627.
Gianola, Umberto F.; and Michaelis, Paul C., 3,471,819.
Gianola, Umberto F., 3,479,660.
Gianola, Umberto F.; Kaenel, Reginald A.; and Smith, James L., 3,482,224.
Gibson, Richard B.; Kerr, Douglas A.; and Lindsay, Thomas E., 3,457,550.
Giordmaine, Joseph A., 3,454,902.
Giordmaine, Joseph A., 3,459,466.
Giordmaine, Joseph A.; and Kaiser, Wolfgang K., 3,478,277.
Gitten, Lawrence J.; and Newby, Neal D., 3,445,602.
Gittler, Frank L., 3,476,621.
Goell, James E., 3,440,567.
Goeller, Leopold F., Jr.; and Nervik, John M., 3,431,368.
Goetzberger, Adolf, 3,453,435.
Goetzberger, Adolf, 3,474,285.
Goetzberger, Adolf; and Nicollian, Edward H., 3,477,033.
Gomez, Ernest; and Klahn, Richard, 3,456,098.
Goordman, Robert V., 3,435,364.
Goordman, Robert V., 3,454,893.
Gordon, Alan M.; and Thommen, Werner, 3,487,162.
Gordon, Eugene I., 3,435,228.
Gordon, Eugene I., 3,462,603.
Gordon, Eugene I., 3,475,078.
Gould, Harold L. B.; and Wenny, Daniel H., Jr., 3,422,407.
Grant, Dwight W.; and Leafer, Robert M., 3,471,815.
Green, Carl W., 3,435,437.
Gressitt, Tillman J.; and Ramsey, Raymond B., 3,459,878.
Gretter, Ralph W.; Spollen, Francis J.; and Voigt, Gottfried O., 3,434,297.
Gribbons, John G., 3,436,661.
Griffiths, James E.; Pao, Yoh-Han; and Zitter, Robert N., 3,426,208.
Guggenheim, Howard J.; and Singh, Shobha, 3,485,551.
Gummel, Hermann K.; and Murphy, Bernard T., 3,471,786.
Gunter, Ernest M.; and Simon, James L., 3,435,152.
Gyorgy, Ernst M.; Le Craw, Roy Conway; and Van Uitert, Le Grand G., 3,428,144.
Haag, Arthur V.; and Vedder, Dietrich, 3,422,399.
Haag, Arthur V.; and Kaenel, Reginald A., 3,453,606.
Hagelbarger, David W.; and Herriott, Donald R., 3,461,298.
Hahn, James R., Jr., 3,458,822.
Hall, Norris R.; Prince, Terry B.; and Ritchey, James F., 3,428,758.
Hall, William G., 3,420,959.
Halloran, Thomas F., 3,487,349.
Ham, James H., Jr., 3,479,470.
Hamming, Richard W., 3,440,539.
Haner, Robert L.; and Major, Norman L., 3,447,084.
Hansen, Ralph H., 3,454,524.
Hansen, Ralph H.; and Schonhorn, Harold, 3,462,335.
Hansen, Ralph H.; and Russel, Charles A., 3,462,517.
Hansen, Ralph H., 3,484,285.
Harding, Philip A., 3,467,953.
Harmon, Leon D., 3,444,383.
Harrigan, Thomas G., 3,448,370.
Harris, Richard L., Jr.; and Harrod, William L., 3,462,540.
Harris, William B., 3,430,074.
Harris, William B., 3,441,873.
Harris, William B., 3,459,972.
Harris, William B.; and Massey, Richard P., 3,479,533.
Hart, Harry P., 3,447,068.
Hartwell, Walter T.; and Young, Frederick C., 3,430,855.
Hayes, Richard L.; Molloy, Peter E.; and Swanson, Richard M., 3,458,662.
Haynie, Gerald D.; and Rosenfeld, Peter E., 3,428,829.
Healey, Robert J.; and Kimmel, Donald S., 3,437,905.
Hefni, Ibrahim E., 3,452,305.
Heightley, John D.; Johannes, Virgil I.; Mayo, John S.; and Witt, Francis J., 3,420,956.
Helmke, George E., 3,469,369.
Henry, Charles H.; and Thomas, David G., 3,439,974.
Hepplewhite, Ralph T.; and Kahng, Dawon, 3,420,776.
Herriott, Donald R.; and Schulte, Harry J., Jr., 3,437,954.
Herriott, Donald R.; Jones, Joseph S.; Meeker, Thrygve; and Reznicek, Kurt, 3,453,166.
Herriott, Donald R.; Perry, Darwin L.; and Wimperis, Jeffery R., 3,466,120.
Higgins, Edward F., Jr., 3,458,852.
Hilsinger, Harry A., Jr.; and Kindermann, Wilfred J., 3,462,095.
Hochgraf, Lester; and Rice, Stephen O., 3,423,535.
Holman, Erwin W.; and Unrue, John E., Jr., 3,471,657.
Holtfreter, Richard P., 3,425,119.
Holtfreter, Richard P.; and McCullough, Harold E., 3,445,795.
Holtz, Roger E., 3,440,367.
Holzman, Louis N., 3,462,560.
Holzman, Louis N.; and Saltzberg, Burton R., 3,475,626.
Houcke, George P.; and Prats, Louis, 3,436,479.
Houcke, George P., 3,440,547.
Houcke, George P., 3,457,368.
Houcke, George P.; and Smith, Todd A., 3,466,467.
Hoyler, Robert C.; Koscinski, Anthony; and Perkinson, William B., 3,428,754.
Hoyler, Robert C., 3,459,894.
Hubbard, William M., 3,433,979.
Hubbard, William M., 3,480,869.
Huffman, Donald W., 3,460,093.
Huffstutler, Miles C., Jr.; and Kerns, Becky T., 3,437,764.
Huizinga, Donald D.; and Prince, Terry B., 3,456,085.
Hunt, John D.; and Jackson, Kenneth A., 3,484,153.
Hutchison, Paul T., 3,440,569.
Hutson, Andrew R.; and Tien, Ping K., 3,440,425.
Ingle, James F., 3,436,496.
Ingle, James F., 3,439,229.
Ingle, James F., 3,482,148.
Inose, Hiroshi; and Koono, Zenya, 3,435,149.
Inose, Hiroshi; and Saito, Tadao, 3,446,917.
Inose, Hiroshi; and Saito, Tadao, 3,461,242.
Inose, Hiroshi; Fujisake, Harova; and Saito, Tadao, 3,483,330.
Jackson, Jesse M., 3,477,204.
Jacoby, John Z.; and Vigliante, Frank S., 3,420,960.
Jaeger, Richard J., Jr.; and Joel, Amos E., Jr., 3,484,560.
Johannes, Virgil I.; and McCullough, Richard H., 3,461,245.
Josenhans, James G.; Magalhaes, Frank M.; and Schlosser, Wolfgang O., 3,460,055.
Kaenel, Reginald A., 3,436,748.
Kaenel, Reginald A., 3,447,142.
Kaenel, Reginald A., 3,452,337.
Kaenel, Reginald A., 3,454,937.
Kaenel, Reginald A.; and Smith, James L., 3,466,628.
Kaenel, Reginald A.; and Smith, James L., 3,470,543.
Kahng, Dawon; and Wemple, Stuart H., 3,443,041.
Kahng, Dawon, 3,464,762.
Kaminski, William, 3,475,695.
Karnaugh, Maurice, 3,457,372.
Kasper, Francis J., 3,440,570.
Kelly, Hugh P., 3,423,520.
Kelly, James M., 3,448,216.
Kempf, Raymond A., 3,452,319.
Kempf, Raymond A., 3,452,320.
Kennedy, Richard N., 3,460,045.
Kerwin, Robert E.; Klein, Donald L.; and Sarace, John C., 3,475,234.
King, Ernam F., 3,459,971.
Kirby, Ralph W.; and Richards, Philip C., 3,479,467.
Kitsopoulos, Sotirios C., 3,426,153.
Kitsopoulos, Sotirios C., 3,444,326.
Klein, Donald L.; and Lawley, Kenneth L., 3,424,954.
Klein, Donald L., 3,436,284.
Klerer, Julius, 3,483,451.
Klibbe, Arthur W.; and Regitz, William M., 3,462,748.

Klingenberg, Alfred S., 3,431,537.
Klockow, Dennis H., 3,487,325.
Knerr, Reinhard H., 3,462,713.
Koehler, Dankwart, 3,452,284.
Kogelnik, Herwig W., 3,449,577.
Kolb, Ernest D.; Laudise, Robert A.; Spencer, Edward G.; and Wood, Darwin L., 3,485,759.
Kompfner, Rudolf, 3,454,768.
Koo, James T.; Tabor, William J.; and Varnerin, Lawrence J., Jr., 3,454,938.
Koo, James T., 3,481,843.
Kraemer, George T., 3,439,191.
Kreisel, Ralph R.; Mattke, Charles F.; and Prescott, Robert E., 3,457,376.
Kretsch, Kenneth P.; and Lyons, Edward F., 3,435,416.
Kretzmer, Ernest R.; Mecklenburg, Paul; Rice, Donald W.; and Ryan, William, 3,421,149.
Kretzmer, Ernest R., 3,479,468.
Krumreich, Charles L., 3,444,329.
Kuebler, Norman A.; Pao, Yoh-Han; and Robin, Melvin B., 3,428,388.
Kunzler, John E.; Levinstein, Hyman J.; and Rowell, John M., 3,423,607.
Kunzler, John E., 3,458,763.
Kuo, Charles C. Y., 3,420,706.
Kurtz, Stewart K., 3,475,736.
Lacey, Joseph C., III; and McEowen, James R., 3,453,396.
Langmack, Robert M.; Phelps, James W.; and Woodard, Daniel P., 3,454,707.
Laudise, Robert A.; and Marshall, David J., 3,440,025.
Lawless, William J., 3,479,524.
Lechleider, Joseph W., 3,444,516.
Lechleider, Joseph W., 3,460,068.
Lenzo, Pascal V.; and Spencer, Edward G., 3,433,958.
Lepselter, Martin P., 3,426,252.
Lepselter, Martin P., 3,442,701.
Lepselter, Martin P., 3,461,524.
Levine, Richard C., 3,439,120.
Li, Tingye, 3,461,453.
Ligenza, Joseph R.; and Povilonis, Edward I., 3,476,971.
Lindenberger, William A., 3,426,302.
Lindenberger, William A., 3,431,520.
Linse, John E., 3,453,394.
Logan, Ralph A.; and White, Harry G., 3,470,038.
Loiacono, Gabriel M.; and Nassau, Kurt, 3,446,603.
Louis, Ronald A., 3,443,033.
Lowry, Terrell N.; and Smathers, John E., 3,456,241.
Lynch, Robert T.; and Thomas, David G., 3,462,320.
Lynch, William T., 3,439,169.
Lynch, William T., 3,486,031.
Lynes, Dennis J.; and Waaben, Sigurd G., 3,480,800.
MacArthur, Donald M., 3,466,231.
Machol, Richard E., Jr., 3,448,436.
MacPherson, William F., 3,459,851.
Macurdy, William B., 3,428,947.
Mallery, Paul, 3,444,503.
Mann, Henry, 3,426,159.
Marcatili, Enrique A. J., 3,420,595.
Marcatili, Enrique A. J., 3,442,574.
Masucci, Eugene D., 3,479,465.
Mathews, Max V.; and McDonald, Henry S., 3,422,419.
Mauzey, Peter T.; Votaw, Clarence J.; and Zydney, Herbert M., 3,427,588.
Mauzey, Peter T.; Schlanger, Gabriel G.; Votaw, Clarence J.; and Zydney, Herbert M., 3,427,590.
McCaffrey, Bernard E.; Moore, Harold R.; and Pennoyer, Douglas H., 3,426,156.
McClay, John C., 3,423,946.
McFarlane, Ross A., 3,448,404.
McGean, Thomas J.; and Nathanson, Daniel, 3,439,142.
McLaughlin, George E., 3,431,369.
McRae, Lorin P.; Watts, Robert N.; and Wolf, William J., Jr., 3,471,830.
Mecklenburg, Paul; and Young, Lawrence H., 3,462,749.
Michaelis, Paul C., 3,454,939.
Michaelis, Paul C., 3,480,925.
Miller, Gabriel L., 3,479,534.
Miller, Ralph L., 3,431,362.
Miller, Ralph L., 3,471,648.
Miller, Stewart E., 3,426,286.
Miller, Stewart E., 3,434,774.
Miller, Stewart E., 3,441,337.
Miller, Stewart E., 3,457,001.
Miller, Stewart E., 3,479,600.
Minchenko, George, 3,454,720.
Mitchell, Doren, 3,439,121.
Mitra, Sanjit K., 3,452,304.
Moose, Louis F.; and Omori, Masahiro, 3,448,409.
Morse, Charles E., 3,450,845.
Morse, Charles E.; and Smith, John P., 3,475,557.
Mounts, Frank W.; and Prasada, Birendra, 3,436,471.
Mounts, Frank W.; and Prasada, Birendra, 3,439,753.
Mumford, William W., 3,444,559.
Munnelly, James J., 3,436,705.
Munson, Verne E., 3,433,897.
Murray, Robert W., 3,436,368.
Nagelberg, Elliott R., 3,482,252.
Nance, Robert L., 3,423,580.
Nanney, Cecil A., 3,483,487.
Nelson, Donald F.; and Reinhart, Franz K., 3,462,211.
Nelson, Donald F., 3,462,711.
Newhall, Edmunde E., 3,479,658.
Ngo, Dinh-Tuan, 3,458,837.
Ngo, Dinh Tuan, 3,479,619.
Noll, A. Michael, 3,420,955.
O'Neill, John F., Jr., 3,423,529.
Ohm, Edward A., 3,454,325.
Okean, Herman C., 3,444,485.
Okinaka, Yutaka, 3,440,099.
Olsen, Karl M.; Smith, David H.; Stockbridge, Christopher D. G.; and Tolman, Edward M., 3,425,043.
Omori, Masahiro, 3,422,375.
Onoe, Morio; and Warner, Arthur W., Jr., 3,461,408.
Orr, William H., 3,457,526.
Ortel, William C. G., 3,421,029.
Overstreet, Robert L., Jr., 3,446,947.
Overstreet, Rogert L., Jr., 3,479,603.
Pan, John W., 3,423,534.
Pan, John W., 3,436,480.
Pao, Yoh-han; and Rentzepis, Peter M., 3,431,484.
Parente, Michael, 3,424,995.
Pasternack, Gerald P., 3,441,682.
Pasternack, Gerald P.; and Whalin, Ronald L., 3,449,691.
Patel, Chandra K. N., 3,435,363.
Patel, Chandra K. N., 3,443,243.
Patel, Chandra K. N.; and Van-Tran, Nguyen, 3,461,403.
Patel, Chandra K. N., 3,466,566.
Patel, Chandra K. N.; and Slusher, Richart E., 3,467,917.
Patle, Chandra K. N., 3,450,997.
Pearson, Arthur D.; Peterson, George E.; and Porto, Sergio P. S., 3,462,707.
Perreault, George E., 3,436,698.
Perreault, George E., 3,439,302.
Peterson, George E., 3,439,259.
Peterson, George E., 3,446,966.
Pfann, William G., 3,423,189.
Pierce, John R., 3,475,687.
Plevyak, Thomas J., 3,476,175.
Pohl, Karl-Heinz; and Spencer, Arthur T., 3,455,775.
Polito, William J.; and Rozgonyi, George A., 3,420,763.
Port, Erich, 3,447,103.
Port, Erich, 3,475,601.
Presti, Anthony J., 3,462,555.
Presti, Anthony J., 3,471,700.
Prins, Gerard C., 3,466,395.
Prozeller, Paul E., 3,443,237.
Rack, Alois J., 3,435,226.
Regitz, William M., 3,435,438.
Regitz, William M., 3,436,563.
Reingold, Gordon A., 3,480,092.
Reinig, Harry, 3,433,901.
Remeika, Joseph P.; and Wood, Darwin L., 3,447,851.
Remeika, Joseph P., 3,462,378.
Reznicek, Kurt, 3,457,679.
Richards, Paul L.; and Smith, George E., 3,436,545.
Rigrod, William W., 3,436,665.
Rigrod, William W., 3,466,565.
Rigrod, William W., 3,479,620.
Ring, Douglas H., 3,466,111.
Ritchey, James F.; Tate, Louis D.; and Waddell, Richard E., 3,480,730.
Robertson, George H., 3,466,540.
Robertson, James E., 3,462,589.
Robinson, Edgar R.; Votaw, Clarence J.; and Zydney, Herbert M., 3,427,589.
Robinson, Peter R., 3,445,603.
Roscoe, Lawrence C. J., 3,428,757.
Roscoe, Lawrence C. J., 3,430,002.
Roscoe, Lawrence C. J., 3,484,558.
Rosenberg, Robert, 3,437,400.
Ross, Robert R.; and Woodard, Kenneth B., 3,422,743.
Rosztoczy, Ferenc E., 3,438,874.
Rowell, John M., 3,466,470.
Royer, James J., 3,483,402.
Rozgonyi, George A., 3,483,110.
Rubin, Jerry J.; and Van Uitert, Le Grand G., 3,470,017.
Rubinstein, Charles B., 3,430,048.
Ruby, Joe H., 3,466,559.
Ruthroff, Clyde L., 3,479,607.
Ruthroff, Clyde L., 3,484,557.
Saal, Frederick A., 3,424,868.
Saari, Veikko R., 3,447,146.

Saari, Veikko R., 3,459,963.
Saltzberg, Burton R., 3,440,548.
Samios, John L., 3,440,366.
Sauer, Harold A., 3,443,632.
Sauer, Harold A., 3,484,946.
Scheer, William H., 3,440,354.
Schmidt, Paul F., 3,438,873.
Schneider, Herbert A., 3,456,196.
Schneider, Martin V., 3,421,081.
Schneider, Martin V., 3,475,609.
Schroeder, Manfred R., 3,424,269.
Schulz-Du Bois, Erich O., 3,444,483.
Schulz, Robert R., 3,459,958.
Schwenker, John E., 3,471,837.
Scovil, Henry E. D., 3,458,714.
Scovil, Henry E. D., 3,471,841.
Scudner, Frank G., Jr., 3,454,811.
Seidel, Harold, 3,423,688.
Seidel, Harold, 3,426,292.
Seidel, Harold, 3,435,260.
Seidel, Harold, 3,444,475.
Seidel, Harold, 3,462,612.
Seidel, Harold, 3,462,703.
Seidel, Harold, 3,471,798.
Seidel, Harold, 3,479,602.
Seidel, Harold, 3,479,612.
Seidel, Harold, 3,486,134.
Seidel, Thomas E., 3,466,512.
Seng, Edward J., 3,440,715.
Shaer Norman R., 3,453,389.
Shapiro, Arthur; and Zuvich, Jerome J., 3,471,781.
Shaw, Robert C.; and Stover, Harry L., 3,437,958.
Shoji, Masakazu, 3,452,222.
Shoji, Masakazu, 3,462,617.
Sibilia, John T.; and Smith, David H., 3,447,141.
Sikorski, Karol S., 3,462,556.
Sikorski, Mathew E., 3,454,845.
Sipress, Jack M.; and Zarins, Egils, 3,439,330.
Sitarik, Joseph P., 3,479,464.
Skinner, John G., 3,447,855.
Slana, Matthew F., 3,458,718.
Smith, David H., 3,440,627.
Smith, George E., 3,430,061.
Smith, James L., 3,439,351.
Smith, James L., 3,440,622.
Smith, James L., 3,452,341.
Smith, James L.; and Tolman, Edward M., 3,471,836.
Smith, Peter W., 3,484,719.
Smith, Peter W., 3,486,131.
Snare, Ronald C., 3,479,521.
Southworth, Hamilton, Jr., 3,465,834.
Stahlhut, Richard W., 3,452,199.
Standley, Robert D., 3,441,878.
Stevens, Thomas R., 3,436,486.
Stokes, Rembert R., 3,427,402.
Stokes, Rembert R.; and Waddell, Richard E., 3,427,403.
Stokes, Rembert R., 3,462,111.
Sundquist, Milton R., 3,436,535.
Tabor, William J., 3,438,005.
Tabor, William J., 3,438,692.
Thelen, William, 3,460,073.
Thim, Hartwig W., 3,466,563.
Thompson, William J., 3,441,869.
Tong, Shih Y., 3,466,601.
Townsend, Richard L.; and Weldon, Edward J., Jr., 3,475,724.
Toy, Wing N., 3,428,945.
Troemel, Clarence P.; and Weber, Edward H., Jr., 3,420,104.
Turner, Edward H., 3,466,121.
Turner, Edward H., 3,484,151.
Uenohara, Michiyuki, 3,451,011.
Ulrich, Werner, 3,420,957.
Van Dine, Gilbert A., 3,441,747.
Van Dine, Gilbert A., 3,479,529.
Vratny, Frederick, 3,461,054.
Waddell, Richard E., 3,427,401.
Waggener, Herbert A., 3,457,148.
Waldhauer, Frederick D., 3,454,888.
Wall, Richard D., 3,487,363.
Warter, Peter J., Jr., 3,443,857.
Warwick, Peter S., 3,438,007.
Watts, Robert N., 3,437,995.
Weller, Charles W., 3,457,639.
Weller, David C., 3,479,598.
White, Alan D., 3,435,371.
Wickliff, Noble E., 3,434,031.
Windeler, Alfred S., 3,436,287.
Wolf, William J., Jr., 3,462,613.
Wolfe, Peter A., 3,435,373.
Wolff, Peter A., 3,448,405.
Worobey, Walter, 3,443,311.
Young, Charles A., 3,424,874.
Young, Frederick C., 3,435,256.
Zebe, Charles W., 3,441,680.
Zebe, Charles W., 3,453,392.
Zebe, Charles W., 3,465,104.
Zieles, Robert S., 3,434,088.

Bell, Theodore F. Welding, brazing and soldering method and apparatus. 3,436,807, 4-8-69, Cl. 29-493.

Bell, Thomas A.: *See—*
Etchells, John L.; Bell, Thomas A.; and Kittel, Ivan D.,3,480,448.

Bell, Thomas H. Bread storage rack. 3,439,811, 4-22-69, Cl. 211-49.

Bell, Tommy O.: *See—*
Phelps, Morton E.; and Bell, Tommy O.,3,421,695.
Phelps, Morton E.; and Bell, Tommy O.,3,434,496.
Phelps, Morton E.; and Bell, Tommy O.,3,447,557.

Bell, Vernon L., Jr.: *See—*
Pezdirtz, George F.; and Bell, Vernon L., Jr.,3,450,878.

Bell, Walter, to Star Expansion Industries Corporation. Safety device for an explosive-operated power tool. 3,423,001, 1-21-69, Cl. 227-8.

Bell, Walter, to Star Expansion Industries Corporation. Rivet setting tool. 3,451,248, 6-24-69, Cl. 72-391.

Bell William E., to Spectra-Physics, Inc. Gas lasers. 3,464,025, 8-26-69, Cl. 331-94.5

Bell, William E., to Spectra-Physics, Inc. Gas lasers with plasma tube having variable cross- section and discharge current. 3,428,914, 2-18-69, Cl. 331-94.5

Bell, William E., to Spectra-Physics, Inc. Gas laser with internal electrodes. 3,449,694, 6-10-69, Cl. 331-94.5

Bell, William E.; and Bloom, Arnold L., to Spectra-Physics, Inc. Selection and control of maser transitions by inhomogeneous fields. 3,464,024, 8-26-69, Cl. 331-94.5

Bell, William Hamilton; and Dewing, John, to Imperial Chemical Industries Limited. Dehydrogenation and cyclization of amines. 3,463,781, 8-26-69, Cl. 260-290.

Bell, William Hamilton; Rennie, Robert Allan Campbell; and Sampson, Roy John, to Imperial Chemical Industries Limited. Dehydrogenation and cyclisation of amines. 3,458,520, 7-29-69, Cl. 260-290.

Bell, William T., to Schlumberger Technology Corporation. Methods for discharging fluent substances into well bores. 3,433,305, 3-18-69, Cl. 166-35.

Bell, William T., to Schlumberger Technology Corporation. Apparatus for discharging fluent substances into well bores. 3,463,248, 8-26-69, Cl. 175-4.52

Bell-Toptex, Inc.: *See—*
Heacox, Frank, 3,423,758.

Bella, Davide Della: *See—*
Teotino, Uberto; and Bella, Davide Della,3,436,458.

Bellace, James R.: *See—*
Buck, Francis E.; and Bellace, James R.,3,447,627.

Bellamy, William G.; Bohannon, William D., Jr.; and Etchison, John O., Jr., to Western Electric Company, Incorporated. Sleeve loading wire wrapping tool. 3,457,616, 7-29-69, Cl. 29-33.

Bellamy, Winthrop D., to General Electric Company. Waste conversion process and product. 3,462,275, 8-19-69, Cl. 99-9.

Bellasio, Elvio: *See—*
Testa, Emilio; Bellasio, Elvio; and Maffii, Giulio,3,449,359.

Bellavance, Inc.: *See—*
Nadeau, Clarence S., 3,477,107.

Bellavin, Peter N. Antiseize sealing compound. 3,437,593, 4-8-69, Cl. 252-13.

Bellco Glass, Inc.: *See—*
Brett, Perry A., 3,429,653.
Harker, William S., 3,474,929.

Belleau, Bernard; and Menard, Marcel, to Bristol-Myers Company, mesne. Esters of 1,4-dihydroquinoline-N-carboxylic acids and throne acids. 3,455,929, 7-15-69, Cl. 260-287.

Bellefeuille, George. Motorized fishing reel. 3,438,594, 4-15-69, Cl. 242-84.2

Bellem, Robert L., to Walco Electric Company. Wheel construction for a brushless wire preheater. 3,422,241, 1-14-69, Cl. 219-10.61

Bellemare, Richard A., to Spedcor Electronics, Inc., mesne. Intensity control circuit for oscilloscope or the like. 3,469,142, 9-23-69, Cl. 315-30.

Beller, Hans Albert: *See—*
Hoenick, Hermann Hans; and Beller, Hans Albert,3,459,282.

Beller, Hans Albert, to Teves, Alfred, GmbH. Dual-network wheel-brake arrangement. 3,456,766, 7-22-69, Cl. 188-152.
Beuchle, Friedrich; Hahm, Heinz; Klein, Christof Hans; and Beller, Hans,3,477,551.

Beller, Wilbert E.; and Kahale, Abed G., to Controls Company of America. Moisture sensing control using switching transistor for voltage regulation. 3,443,163, 5-6-69, Cl. 317-148.5

Beller, Wilbert E.; and Kahale, Abed G., to Controls Company of America. Moisture sensing control circuit detecting reversed polarity of power supply. 3,445,676, 5-20-69, Cl. 307-94.

Bellet, Paul; and Van Thuong, Truong, to Roussel-UCLAF. Process for the preparation of hydroxycyclo- alkanones. 3,432,393, 3-11-69, Cl. 195-51.
Bellet, Paul; Van Thuong, Truong; and Nomine, Gerard, to Roussel-UCLAF. Insulin derivatives. 3,471,464, 10-7-69, Cl. 260-112.7
Bellet, Richard J.: *See—*
Seven, Manfred K.; and Bellet, Richard J.,3,465,059.
Belleville, Logan M.: *See—*
McCutcheon, Samuel R.; Belleville, Logan M.; and Ewin, William H.,3,461,386.
Bellhow Jackets Inc.: *See—*
Engelstein, Stanley, 3,486,259.
Bellinger, Arthur A.; and Doyle, George W., to National Lead Company. Method and means for purging pulverulent materials of occluded gases. 3,439,432, 4-22-69, Cl. 34-36.
Bellinger, James E.; and Marshall, Robert F., to General Electric Company. Electronic phase-difference counter-circuit. 3,444,556, 5-13-69, Cl. 343-7.
Bellinger, Kenneth P.; and Verzier, Le Verne, to Conversion Chemical Corporation. Process and composition for etching ferrous metal surfaces. 3,479,293, 11-18-69, Cl. 252-79.4
Bellinger, Ronald; and Bayley, Graham Edward, to Strachan & Henshaw Limited. Method of and apparatus for handling rail wagons. 3,463,333, 8-26-69, Cl. 214-55.
Bellinger, Ronald; Sperring, James Alfred; and White, Charles Edward, to Strachan & Henshaw Limited. Devices for moving or controlling the movement of rail wagons and the like. 3,426,702, 2-11-69, Cl. 104-176.
Bellinger, Victor Stanley. Fishing pole. 3,432,958, 3-18-69, Cl. 43-24.
Bellis, Carlo: *See—*
Capellaro, Natale; and Bellis, Carlo,3,450,042.
Bellman, Robert H., to Corning Glass Works. Up and down binary counter. 3,473,546, 10-21-69, Cl. 137-81.5
Bellman, Robert H.; and Bermel, Thomas W., to Corning Glass Works. Binary counter. 3,433,408, 3-18-69, Cl. 235-201.
Bellman, Robert H.; and Bermel, Thomas W., to Corning Glass Works. Fluid pulse device. 3,461,898, 8-19-69, Cl. 137-81.5
Bellmer, Friedrich O.: *See—*
Caldemeyer, Daniel F.; Caldemeyer, Lloyd O.; Gates, John T.; and Bellmer, Friedrich O.,3,434,755.
Bellmer, Friedrich O., to Worthington Corporation. Rotary compressor. 3,434,655, 3-25-69, Cl. 230-152.
Bellmer, Friedrich O., to Worthington Corporation. Lubrication system for rotary vane compressors. 3,434,656, 3-25-69, Cl. 230-207.
Belloc, Pierre Auguste Marcel, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique 'Alcatel'. Method of manufacturing ferroelectric ceramics. 3,422,018, 1-14-69, Cl. 252-62.9
Belloc, Pierre Auguste Marcel, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques, de Telecommunications et d'Electronique 'Alcatel'. Ferroelectric ceramics. 3,437,597, 4-8-69, Cl. 252-62.9
Bellomo, Andrea. Homokinetic universal joint capable of angularly shifting and of axially sliding. 3,420,074, 1-7-69, Cl. 64-21.
Bellomo, Giovanbattista. Two-way hinge. 3,441,976, 5-6-69, Cl. 16-163.
Bellot, Jacques, to Societe de Tricolage Aube et Marne. Knitted collar for a knitted article of wear. 3,434,309, 3-25-69, Cl. 66-172.
Bellows, Alfred H., to Polaroid Corporation. Photographic camera including a scanning exposure system with compensation for cylindrical perspective distortion by optical path length changes. 3,468,229, 9-23-69, Cl. 95-15.
Bellows, Alfred H., to Polaroid Corporation. Photographic camera having a scanning exposure system with distortion compensation. 3,468,230, 9-23-69, Cl. 95-15.
Bell's Medical Products Limited:*See—*
Denny, Douglas Frank, 3,462,920.
Belmont, Lawrence P. W., Sr.: *See—*
Gloninger, Irving L. W.; and Belmont, Lawrence P. W., Sr.,3,439,424.
Belmuth, Harold: *See—*
Becker, Marvin; and Belmuth, Harold,3,461,504.
Belnap, Gordon E., to University of Utah. Portable athletic table. 3,483,574, 12-16-69, Cl. 5-86.
Belner, Robert J., to General Tire & Rubber Company, The. Double metal cyanides complexed with an alcohol aldehyde or ketone to increase catalytic activity. 3,427,334, 2-11-69, Cl. 260-429.
Belock Instrument Corporation: *See—*
Bullwinkel, Bernhard A.; Epstein Herbert R.; and Olson, William P., 3,441,941.
Belohlav, Leo R.; and Costanza, John R., to Celanese Corporation. Process for the preparation of polyquinazolones. 3,444,136, 5-13-69, Cl. 260-47.
Belohlav, Leo R.; and Costanza, John R., to Celanese Corporation. Nitrated polyesters and polybenzoxazoles prepared from same. 3,479,321, 11-18-69, Cl. 260-47.
Beloit Corporation: *See—*
Arbit, Harold A., 3,421,960.
Arbit, Harold A., 3,421,964.
Beachler, Edward D., 3,483,079.
Brown, Kenton J., 3,459,379.
Busker, Leroy H.; and Grenlund, Wesley E., 3,441,844.
Busker, Leroy H., 3,485,427.
Cancilla, Vincent W., 3,438,586.
Crist, Elmer E., 3,449,839.
Daane, Robert A., 3,447,247.
Dennis, Louis E., 3,434,923.
De Noyer, Donald B.; and Hess, Loyal H., 3,424,651.
Denoyer, Donald B.; and Beachler, Edward D., 3,443,295.
Ely, Donald A., 3,434,396.
Ely, Donald A., 3,434,922.
Ely, Donald A., Sr., 3,438,852.
Ely, Donald A., Sr., 3,477,907.
Hoch, Norman F., 3,455,516.
Hunger, Richard H.; Whiting, Charles L.; and Suojanen, Reino, 3,461,929.
Justus, Edgar J, 3,432,382.
Keyes, Marion A., 3,461,030.
Koelsch, Lester M., 3,455,235.
Koelsch, Lester M., 3,477,873.
Larson, Robert W.; and Lundberg, John P., 3,452,887.
Larson, Robert W.; and Jam, Joseph C., 3,452,888.
Larson, Robert W., 3,461,926.
Larson, Robert W.; Jam, Joseph C.; and Lundberg, John P., 3,468,352.
Mahoney, Ralph P., 3,424,126.
Mc Clenathan, John A., 3,456,582.
Modersohn, Charles W., 3,449,207.
Modersohn, Charles W., 3,455,274.
Roerig, Arnold J.; and Brown, Kenton J., 3,433,392.
Roerig, Arnold J., 3,449,014.
Salomon, Salomon M., 3,456,793.
Salomon, Salomon M., 3,464,887.
Shields, Dean W., 3,435,861.
Skaugen, Borg, 3,430,319.
Stoeng, Gunnar, 3,430,556.
Westbrook, Carl M., 3,438,084.
Westbrook, Carl M., 3,438,088.
Westbrook, Carl M., 3,448,610.
Westbrook, Carl M., 3,451,258.
Wood, Elbert D., 3,438,608.
Beloit Eastern Corporation: *See—*
Daly, David A., 3,465,625.
Kiraly, Philip Z., 3,448,488.
Lucas, Robert G., 3,463,377.
Moore, Lawrence A., 3,424,394.
Moore, Lawrence A., 3,438,100.
Moore, Lawrence A.; and Klaczkiewicz, Edward J., 3,455,192.
Pfeiffer, John David, 3,425,267.
Reeder, George E., Jr., 3,459,086.
Reeder, George E., Jr., 3,465,631.
Beloit Pipe and Dredge, Inc.: *See—*
Soehnlen, Robert M., 3,470,633.
Belokin, Paul, Jr., to Schenley Industries Incorporated. Animated advertising device. 3,444,636, 5-20-69, Cl. 40-106.25
Belokin, Paul, Jr., to Countess Natalie, Inc., mesne. Wig stand. 3,465,927, 9-9-69, Cl. 223-67.
Belopitov, Nikola R., to Nautchno-Izsledovatelski i Proektno-Konstruktorski Institut Po Elektrotechnitscheska Promishlenost. Method of and apparatus for the spark discharge deposition of metals onto conductive surfaces. 3,446,932, 5-27-69, Cl. 219-76.
Belousov, Vitalie; Alecsandrescu, Constantin-Jean; Zmau, Gheorghe; and Stan, Mihaita, to Ministerul Industriei Constructulor de Masini. Method of and means for sharpening twist drills. 3,448,545, 6-10-69, Cl. 51-73.
Belova, Galina Mikhailovna: *See—*
Katsobashvili, Jakov Rafailovich; and Belova, Galina Mikhailovna,3,422,031.
Beloved Toys, Inc.: *See—*
Rosenberg, Sherman; Smith, Harold W.; and Hodge, Walter D., 3,445,902.
Belson, Henry S., to United States of America, Navy. Thin film magnetometer using thin film coated conductors. 3,421,075, 1-7-69, Cl. 324-43.
Belson, Henry S.: *See—*
Spandorfer, Lester M.; and Belson, Henry S.,3,482,223.
Belson, Ross A.; and Bickoff, Charles, to Honeywell Inc. Type hammer actuating means in high-speed printers. 3,465,670, 9-9-69, Cl. 101-93.
Belson, Ross A.; and Zettler, John F., to Honeywell Inc. High-speed printer with shared control circuit. 3,461,796, 8-19-69, Cl. 101-93.
Belsterling, Charles A.; and Young, Bruce B., to United States of America, Army, mesne. Computer for solving trigonometric equations. 3,465,135, 9-2-69, Cl. 235-189.
Belt, John E.: *See—*
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,444,525.

Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,487,373.
Belt, John E.; Hittel, Lorenz A.; and Rakoczi, Laszlo L., to General Electric Company. Apparatus providing identification of programs in a multiprogrammed data processing system. 3,480,916, 11-25-69, Cl. 340-172.5
Beltek Kabushiki Kaisha: *See—*
Kuwabara, Susumu, 3,465,940.
Belter, Jerome G., to Dana Corporation, mesne. Cylinder head gasket assembly with fluid cooled combustion sealing rings. 3,430,611, 3-4-69, Cl. 123-41.82
Beltone Electronics Corporation: *See—*
Brander, Richard, 3,423,704.
Mercola, Peter A., 3,439,285.
Parks, Robert F.; and Deutschle, Alan G., 3,475,528.
Weiss, Erwin M., 3,423,544.
Beltrami, Aurelio. Televideophonic broadcasting and receiving system. 3,440,342, 4-22-69, Cl. 178-6.8
Beltrami, Osmano. Excavator. 3,430,790, 3-4-69, Cl. 214-138.
Beltramo, Renaldo M., to Syncro Corporation. Control system for electric brakes. 3,423,135, 1-21-69, Cl. 303-3.
Beltx Corporation: *See—*
De Woskin, Irvin S., 3,420,236.
De Woskin, Irvin S., 3,486,615.
Beltz, John P.; and Phelps, Donald E., to RCA Corporation. Reliability check circuit for optical reader. 3,465,130, 9-2-69, Cl. 235-61.11
Beltzer, Morton; and Horowitz, Hugh H., to Esso Research and Engineering Company. Process of operating fuel cell with hydrocarbon fuel and pyrophosphoric acid electrolyte. 3,441,443, 4-29-69, Cl. 136-86.
Belvedere, Giuseppe: *See—*
Minisci, Francesco; Belvedere, Giuseppe; Cecere, Mirella; and Quilico, Adolfo,3,444,194.
Belyaev, Evgeny Ivanovich: *See—*
Kuznetsov, Viktor Sergeevich; Belyaev, Evgeny Ivanovich; Tereschenko, Tatiana Petrovna; Pechnikov, Nikolai Alexandrovich; Tashilin, Vyacheslav Fedorovich; Korityssky, Yakov Ilich; and Korney, Igor Vladimirovich,3,438,191.
Belz, August. Pocket soap dispenser. 3,464,469, 9-2-69, Cl. 146-61.
Belzidsky, David. Knitted protective article for wearing in a prosthesis or orthopedic appliance and method of making the same. 3,451,232, 6-24-69, Cl. 66-171.
Bemberg S.p.A.: *See—*
Cerutti, Giacomo; and Faraci, Giorgio, 3,425,108.
Cerutti, Giacomo; and Lanza, Alberto, 3,434,180.
Cerutti, Giacomo; Faraci, Giorgio; and Tovaglieri, Fabio, 3,438,194.
Cerutti, Giacomo; and Faraci, Giorgio, 3,484,914.
Cerutti, Giacomo, 3,485,801.
Cerutti, Giacomo, 3,485,984.
Bement, Lyle W.; Morning, William L.; Benjamin, James E.; South, Richard P.; Thompson, Richard B.; and Anglin, James M., to Mallory, P. R., & Co., Inc. Capacitor testing apparatus including timer means for controlling the discharge time through different resistances. 3,460,032, 8-5-69, Cl. 324-60.
Bemerl, Wolfgang: *See—*
Schultz, Werner; and Bemerl, Wolfgang,3,452,660.
Bemis Company, Inc.: *See—*
Ashton, George H., 3,461,648.
Ayres, Richard H.; and Lieder, Gaylerd M., 3,425,183.
Ayres, Richard H.; and Lieder, Gaylerd M., 3,469,367.
Conner, Joseph R.; Helm, Jack D.; and Anderson, Harold N., 3,460,313.
Dickmann, Edwin A., 3,424,113.
Goodwin, Ralph C., 3,431,829.
Snabb, Avron A.; and Goodwin, Ralph C., 3,456,868.
Woserau, Otto; and Anderson, Harold N., 3,440,954.
Bemiss-Jason Corporation: *See—*
Jason, William M., 3,453,170.
Bemmann, Richard W., to General Motors Corporation. Cruise control system and error detector therefor. 3,459,052, 8-5-69, Cl. 73-506.
Bemrose & Sons Limited: *See—*
Hall, John, 3,455,087.
Ben-Aziz, Victor, to National Coordinators, Inc. Method of forming buildings. 3,435,583, 4-1-69, Cl. 52-745.
Ben Mena, Taoufik; Chabbal, Robert; and Gerstenkorn, Simon, to Commissariat a l'Energie Atomique. Apparatus for adjusting the pass-band of a spectrometer. 3,475,100, 10-28-69, Cl. 356-100.
Ben-Moshe, Shemayahu; Shorr, Leonard Marshall; and Sofer, Noah, to Israel Mining Industries-Institute for Research and Development, and Israel Petrochemical Enterprises Ltd. Chlorination of polyethylene. 3,475,401, 10-28-69, Cl. 260-94.9
Ben-Tovim, Nathan. Ocular refractometry apparatus. 3,466,122, 9-9-69, Cl. 351-6.
Ben-Tovim, Nathan. Projection perimeter. 3,482,905, 12-9-69, Cl. 351-23.
Ben Venue Laboratories, Inc.: *See—*
Starkey, Roland J., Jr., 3,449,885.
Benak, James L.: *See—*
Selover, Theodore B., Jr.; and Benak, James L.,3,472,701.
Benanti, Michael A.: *See—*
Reich, Bernard; Benanti, Michael A.; and Orloff, William R.,3,440,530.
Benard, Emil J. J.; and de Leeuw, Gerrit. Method and device for the production of glass footed stemware. 3,453,096, 7-1-69, Cl. 65-54.
Benasutti, Louis D.: *See—*
Saunders, Orson V.; and Benasutti, Louis D.,3,445,025.
Benatar, Victor, to Mead Corporation, The. Control system. 3,465,869, 9-9-69, Cl. 198-110.
Benbow, Eugene C.; and Burnette, Earl L.., to Westinghouse Electric Corporation. Decade dial type maximum demand meter. 3,421,084, 1-7-69, Cl. 324-103.
Beneic, Robert S., to Dole Valve Company, The. Dispenser assembly for soda fountains. 3,482,598, 12-9-69, Cl. 137-568.
Bencze, William Laszlo: *See—*
Huebner, Charles Ferdinand; and Bencze, William Laszlo,3,422,114.
Bencze, William Laszlo, to Ciba Corporation. Diaryl substituted benzocycloalkanes. 3,470,234, 9-30-69, Cl. 260-473.
Bencze, William Laszlo, to Ciba Corporation. 1-(Alkoxyphenyl)-1-(3-pyridyl)-carbinols. 3,471,505, 10-7-69, Cl. 260-297.
Bencze, William Laszlo, to Ciba Corporation. 1,2-diaryl-6-tertiary amino loweralkoxy-3,4- dihydro naphthalenes. 3,476,767, 11-4-69, Cl. 260-326.3
Bend-Rite, Inc.: *See—*
Sassak, Frank, 3,452,571.
Benda, Alexander Z.; and Woessner, Richard, to Hoe, R., & Co., Inc. Precision roller socket adjustment device. 3,440,958, 4-29-69, Cl. 101-349.
Benda, David, to Sylvania Electric Products Inc. Cathode ray tube having a perforated electrode for releasing a selected gas sorbed therein. 3,432,712, 3-11-69, Cl. 313-181.
Bende, Albert; Hiemenz, George G.; and Moore, Charles Dana, 1/2 to Goodrich Welding Equipment Corporation, and 1/2 to Budd Company, The. Tilting welding gun. 3,465,117, 9-2-69, Cl. 219-89.
Bende, Friedrich: *See—*
Corsepius, Horst; and Bende, Friedrich,3,481,969.
Bende, Friedrich; Corsepius, Horst; and Hansel, Werner, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Hexamethylene diamine manufacture. 3,478,102, 11-11-69, Cl. 260-583.
Bende, Friedrich; Vollinger, Heinz; and Pohl, Kurt, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Method for the production of adipic acid and recovery of nitric acid components. 3,476,804, 11-4-69, Cl. 260-531.
Vollinger, Heinz; Pohl, Kurt; and Bende, Friedrich,3,476,805.
Bender, Alfred; and Knapp, Wilhelm, to Teves, Alfred, GmbH. Dual-network disk brake. 3,478,847, 11-18-69, Cl. 188-152.
Bender Charles E.; Fraser, Douglas S.; and Thompson, Taylor N., to Virtis Company, Inc., The. Adapter for controlled closure of evacuated containers. 3,463,342, 8-26-69, Cl. 215-73.
Bender, Charles E.; and Parkinson, Martin C. Sterile cap for a freeze drying container and method of freeze drying materials under sterile conditions. 3,454,178, 7-8-69, Cl. 215-37.
Bender, Charles E.; and Parkinson, Martin C. Ampule for freeze dried biological material maintained under partial vacuum conditions and method of obtaining said biological material from said ampule without contaminating the surrounding atmosphere. 3,459,185, 8-5-69, Cl. 128-272.
Bender, Charles E.; and Thompson, Taylor N., to Virtis Company, Inc., The. Method and apparatus for simultaneously freeze drying a plurality of bacterial cultures. 3,474,543, 10-28-69, Cl. 34-5.
Bender, Donald E.; and Doiron, David H., to Olin Mathieson Chemical Corporation. Failsafe switch for gas generator. 3,446,017, 5-27-69, Cl. 60-39.47
Bender, Donald E.; Kaytor, James; and Russell, Lowell L., to Olin Mathieson Chemical Corporation. Diesel engine starter. 3,459,165, 8-5-69, Cl. 123-179.
Bender, Emil A. Pumping apparatus for deep wells. 3,483,828, 12-16-69, Cl. 103-206.
Bender, Erwin L.; and Swanson, Richard H., to Manitowoc Company Inc., The. Method and apparatus for proofing a bakery product. 3,479,971, 11-25-69, Cl. 107-54.
Bender, Ilan. Method for making bonded pipe joints. 3,434,900, 3-25-69, Cl. 156-182.
Bender, James O.: *See—*
Bauman, John A.; and Bender, James O.,3,470,589.
Bender, John R., to Bendix Corporation, The. Disc element construction for disc brake. 3,483,953, 12-16-69, Cl. 188-218.
Bender, Joseph A., to Vacuum Die Casting Corporation. Drip coffee maker. 3,451,330, 6-24-69, Cl. 99-299.
Bender, Joseph L., to Anocut Engineering Company. Electrochemical machining apparatus utilizing a mechanically deformable cathode. 3,458,424, 7-29-69, Cl. 204-224.
Bender, Lloyd F. Dump valve for fluid conveying apparatus. 3,424,098, 1-28-69, Cl. 103-228.
Bender, Lloyd F. Portable, automatic washing unit for tanks. 3,448,742, 6-10-69, Cl. 134-57.

Bender, Louis, to Standard Plastic Products, Inc. Table base. 3,439,634, 4-22-69, Cl. 108-27.
Bender, Louis, to Standard Plastic Products, Inc. Cantilevered ball cushion. 3,477,716, 11-11-69, Cl. 273-9.
Bender, Ludwig; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl, to Knapsack Aktiengesellschaft. Electrode system for use in the electrolytic production of manganese dioxide. 3,455,811, 7-15-69, Cl. 204-242.
Bender, Paul H.; and Vaughan, David A., to Avco Corporation. Automatic signal discriminator and threshold adjustment circuit for range-gated radar detection systems. 3,430,235, 2-25-69, Cl. 343-7.
Bender, Peter L.; and Owens, James C., to United States of America, Commerce. Distance measuring instrument using a pair of modulated light waves. 3,424,531, 1-28-69, Cl. 356-4.
Bender, Philip E.: *See—*
Conley, Dwain D.; and Bender, Philip E.,3,430,587.
Bender, Richard B. Apparatus and method for coating pipe. 3,432,582, 3-11-69, Cl. 264-47.
Bender, Samuel. Dose time indicator closure means for receptacles. 3,446,179, 5-27-69, Cl. 116-121.
Bender, Thomas A. E. Stitching, tufting and carving machine. 3,450,076, 6-17-69, Cl. 112-79.
Bender, Werner K.: *See—*
Schwartz, Morris; and Bender, Werner K.,3,435,156.
Bender, William A., to General Foods Corporation. Analgesic compositions of aspirin and pectin. 3,485,920, 12-23-69, Cl. 424-235.
Benderly, Asaf A.: *See—*
Engelhardt, Friedrich J. O.; and Benderly, Asaf A.,3,442,828.
Bendix Corporation: *See—*
Schulz, Allan E.; and Doniger, Jerry, 3,448,449.
Bendix Corporation, The: *See—*
Abbott, Malcolm K.; and French, Charlie N., 3,452,646.
Abbott, Malcolm K., 3,482,485.
Abu-Akeel, Abdulhadi K., 3,478,850.
Abu-Akeel, Abdulhadi K., 3,482,654.
Ahern, Charles J., 3,465,773.
Ahern, Charles J., 3,486,692.
Aldrich, F William; and Deane, Theodore E., 3,434,998.
Barone, Philip, 3,434,574.
Bender, John R., 3,483,953.
Birdsall, Fred R., 3,465,862.
Blythe, Richard; Marshall, Alvin E.; Mitchell, Claybourne, Jr.; Oser, George T.; and Scott, Gerald C., 3,448,267.
Blythe, Richard; and Work, Edgar A., Jr., 3,479,107.
Boyadjieff, George I., 3,461,833.
Boyadjieff, George I., 3,473,545.
Bozek, John W., 3,442,391.
Bozek, John W., 3,478,881.
Brandau, William, 3,477,294.
Brandon, Thomas A., Jr., 3,427,582.
Bulloch, James E.; and Platt, Walter A., 3,424,402.
Burnett, Richard T., 3,460,651.
Buxton, James E.; Emmick, Charles R.; and Mortensen, Harold R., 3,465,353.
Carp, Ralph W.; Carruth, Winford B.; and Slavin, Michael, 3,428,943.
Carp, Ralph W.; Howard, William E.; Slavin, Michael; and Ang, Leoncio T., 3,455,411.
Christian, Frank T.; and Hood, Edwin Elliott, 3,428,377.
Clasby, David N.; and Hall, Roger D., 3,441,937.
Cohen, Arnold H.; and Pursiano, Leonard C., 3,465,334.
Cohen, Edward A.; Bosworth, Robert H.; and Feucht, Robert E., 3,471,349.
Cohen, Richard L., 3,443,073.
Coman, William E., 3,440,433.
Cripe, Maxwell L., 3,460,439.
Cripe, Maxwell L.; and Abbott, Malcolm K., 3,486,389.
Delker, Thomas C., 3,434,372.
Diani, Arthur Charles, 3,445,846.
Ditlinger, Richard J., 3,434,373.
Ditlinger, Richard J.; and Toal, James J., 3,475,988.
Doniger, Jerry; Schoenblum,Ervin; and Feintuch, Martin W., 3,447,765.
Doniger, Jerry; and Berg, Jerry, 3,482,234.
Dorwald, Rudolf, 3,435,128.
Eastman, James M., 3,438,258.
Eastman, James M., 3,486,416.
Eastman, James Middleton, 3,473,727.
Eckermann, Alfred E., 3,486,030.
Eder, Franz X., 3,428,241.
Ehrenberg, Nathan S., 3,460,241.
Esch, Robert E., 3,481,043.
Fant, Warwick; and Bunger, Dennen J., 3,458,019.
Farron, John R.; and Teitelbaum, Bernard R., 3,471,205.
Fischer, Israel Lou; and Lee, Walter W., 3,444,537.
Florek, Edward J.; De Paolo, Salvatore J.; O'Hare, Thomas F.; Haefeli, John E.; and Berenberg, Oscar, 3,482,231.
Fulmer, Keith H., 3,469,890.
Fulmer, Keith H., 3,473,473.
Gauger, Roy C., 3,478,954.
Gelernter, Samson C., 3,454,787.
Goerke, James R.; and Franz, Dale W., 3,459,062.
Gress, Albert V., Jr., 3,447,840.
Hager, Donald L.; and Gantert, Raymond A., 3,486,456.
Hager, Robert R., 3,434,285.
Hagerty, Sidney E., 3,473,633.
Hajzak, Dennis G., 3,487,000.
Hamilton, Allen R.; and Graczyk, Thadeus S., 3,429,501.
Hamilton, Allen R., 3,433,550.
Harnish, Eugene E., 3,426,871.
Heaslip, Donald B.; and Tepolt, Florian E., 3,461,351.
Hedge, John A., 3,486,071.
Henegar, Hubert B.; and Nelson, Robert A., 3,460,012.
Herald, Conrad D.; and Scruggs, David M., 3,468,658.
Herzog, Howard A.; and Packard, William, 3,481,192.
Higgins, Paul T., 3,433,260.
Hoffman, Philip A., 3,462,759.
Hoffman, Philip A.; Barbour, Charles W.; and Egerton, McKenny W., Jr., 3,469,255.
Holcomb, Orla L., Jr., 3,456,768.
Hooten, Basil P., Jr., 3,478,293.
Hovenga, La Vern B.; Hardt, Ivan E.; Kidman, Ronald D.; and Gruen, Harold E., 3,428,916.
Howland, George R., 3,473,389.
Howland, George R., 3,486,518.
Hrboticky, Jiri, 3,470,571.
Hruska, Howard E., 3,465,842.
Hurlburt, Charles E., 3,483,760.
Huyvaert, Robert H.; and Steinbrunner, Arthur A., 3,456,323.
Jacob, Keith D., 3,460,040.
James, Robert L.; and Moreines, Harold, 3,436,635.
James, Robert L., 3,436,636.
James, Robert L., 3,449,597.
James, Robert L., 3,465,134.
James, Robert L., 3,473,043.
James, Robert L., 3,482,116.
James, Robert L., 3,482,174.
James, Robert L., 3,486,100.
James, Robert L., 3,486,133.
James, Robert Ludlow, 3,465,236.
Julow, Thomas M.; and French, Charlie N., 3,434,388.
Julow, Thomas M., 3,434,759.
Julow, Thomas M., 3,452,644.
Kasten, Walter, 3,434,486.
Kasten, Walter, 3,460,676.
Keller, Clarence, 3,482,658.
Kendall, Kenneth J.; and Yurasek, John F., 3,471,742.
Kinney, John F., 3,434,350.
Kirchhein, Albert T.; and Franchi, Louis J., 3,454,849.
Kirchhein, Albert T., 3,454,851.
Kock, Winston E., 3,440,453.
Krause, Walter J., 3,473,635.
Kremidas, James R.; and Kantz, Don B., 3,433,241.
Kruzich, Joseph K., 3,474,488.
Lambert, William H., Jr.; and Seger, Richard J., 3,469,261.
Lanni, Michael J., 3,466,935.
Laurent, Harold J.; and Iwaskiw, Lubomyr J., 3,478,274.
Lavengood, Thomas H., 3,434,196.
Lavin, Thomas J., 3,460,130.
Levine, Alfred L., 3,440,642.
Levine, Alfred L., 3,467,957.
Levine, Alfred L.; and Yee, Peter P. M., 3,479,491.
Lewis, Richard J., 3,434,083.
Lewis, Richard L., 3,421,321.
Lewis, Richard L.; Ferrell, William E.; and Shutt, Paul B., 3,423,939.
Lewis, Richard L.; and Barnes, Charles M., 3,438,399.
Lewis, Richard L.; Van Anrooy, John A.; and Smith, Donald W., 3,462,200.
Lewis, Richard L.; and Smith, Donald W., 3,462,201.
Lewis, Richard L., 3,478,649.
Lewis, Richard L.; and Smith, Donald W., 3,479,095.
Linkroum, Irving E., 3,450,940.
Linkroum, Irving E., 3,450,972.
Little, Knowles G., Jr., 3,435,367.
Lotwis, John J., Jr., 3,444,466.
Magnani, Seeley L.; Fodroci, Michael P.; and Flake, George H., 3,486,731.
Magnuson, Leo D., 3,456,506.
Malkiel, Saul L., 3,433,895.
Mayer, Endre A., 3,424,182.
Mayer, Endre A., 3,444,878.
Mayer, Endre A., 3,456,667.
Mayer, Endre A., 3,468,329.
Mayer, Endre A., 3,486,521.
McGinnis, Robert W.; and Moore, Robert G., Jr., 3,438,199.
Medlinski, William W., 3,487,393.
Metevia, Edwin E., 3,436,836.
Miller, Donald L., 3,455,421.
Modrowsky, Fred P.; and Moore, Edward J., 3,444,735.
Molis, Edward W., 3,465,583.

Molnar, Robert J.; and Parfomak, Walter, 3,427,609.
Molnar, Robert J.; and Parfomak, Walter, 3,440,637.
Moore, Robert G., Jr., 3,423,930.
Moreines, Harold, 3,465,229.
Moreines, Harold, 3,467,956.
Moreines, Harold; and Gessner, Gunter Jerry, 3,473,151.
Moreines, Harold, 3,475,743.
Morine, Louis A., 3,432,761.
Moseson, Roger M., 3,451,917.
Moseson, Roger M., 3,472,755.
Moseson, Roger M., 3,475,315.
Mulford, Charles O., Jr.; and Normington, Peter J. C., 3,461,323.
Newland, Albert J., 3,441,809.
Newland, Albert J., 3,469,151.
Noxon, Paul A., 3,427,730.
Noxon, Paul A., 3,436,840.
Nutz, George Kaspar, 3,478,219.
Orme, Myrl E., 3,454,026.
Palfreyman, Raymond D., 3,447,766.
Parfomak, Walter; and Molnar, Robert J., 3,427,458.
Pauwels, Edward M., 3,434,489.
Pincus, Ralph M., 3,427,560.
Potter, Frederick Milton, 3,440,461.
Potter, Frederick Milton, 3,480,810.
Poynter, Kay Stanley, 3,426,696.
Pullen, Cecil V.; and Kaiser, Frederick A., 3,460,559.
Purper, Robert L., 3,428,581.
Raizes, Sheldon F., 3,434,286.
Reznicek, Raymond A., 3,421,322.
Reznicek, Raymond A.; and Chalk, Julian L., 3,426,531.
Reznicek, Raymond A., 3,448,579.
Ritsema, Irving R., 3,434,195.
Ritsema, Irving R., 3,486,349.
Rogers, Bill A., 3,436,683.
Ronci, William L., 3,440,536.
Roney, Burton W., 3,460,873.
Roth, Douglas J., 3,428,440.
Rudy, Erland W., 3,441,946.
Runkle, Dean E., 3,434,368.
Runkle, Dean E., 3,434,369.
Runkle, Dean E., 3,444,753.
Runkle, Dean E., 3,473,406.
Runkle, Deane E.; and Baker, Donald J., 3,463,261.
Scholer, Henry G., 3,444,614.
Schultz, Harold B., 3,445,142.
Schultz, Harold B., 3,459,226.
Schultz, Harold B., 3,466,099.
Scott, Gerald C., 3,433,995.
Segall, Louis H.; and Linkroum, Irving E., 3,443,152.
Segall, Louis H.; and Linkroum, Irving E., 3,450,942.
Shagena, Jack L.; and Kvarda, Joseph C, 3,459,892.
Slavin, Michael, 3,465,588.
Slavin, Michael; Emery, Raymen F.; and Carp, Ralph W., 3,477,346.
Slavin, Michael; Carp, Ralph Wolf; Howard, William Edward; and Ang, Leoncio T., 3,485,316.
Smith, Donald F.; Furyear, David B.; and Smith, Donald W., 3,434,427.
Smith, Donald W.; and Reznicek, Raymond A., 3,473,849.
Spencer, Glenn S., 3,422,942.
Spieker, Bernard, 3,440,119.
Stafford, Henry R., 3,478,624.
Starzec, Francis J.; Ooms, Jan; and Schlansker, Kermit C., 3,448,383.
Steinhelper, John E., Jr., 3,461,458.
Tankersley, James A., 3,434,899.
Tankersley, James A., 3,460,628.
Taplin, Lael B.; Datwyler, Walter F., Jr.; Thompson, Thomas E.; and Madurski, Joseph P., 3,457,938.
Thomas, Frank J.; and Worthington, Robert L., 3,431,557.
Thornsen, Bernard L.; Henrich, Robert S.; and Mayer, Leo F., 3,480,849.
Troeger, Henry, 3,465,859.
Troeger, Henry, 3,472,091.
Tschudi, Dennis E., 3,480,799.
Vaiden, John C., 3,422,693.
Vaiden, John C., 3,473,760.
Van Valkenburg, Ernest S., 3,440,638.
Varner, Horace M., 3,457,479.
Vick, Ralph L., 3,426,784.
Vick, Ralph L., 3,430,646.
Vick, Ralph L., 3,451,429.
Vincent, Peter A., 3,437,908.
Watkins, Robert V.; and Farrington, Wayne A., 3,466,155.
Watson, William F., 3,457,641.
Weiss, Ernest, 3,434,356.
Welch, Duraine E., Jr., 3,448,401.
Wheeler, Harry L., Jr., 3,456,668.
Wieger, George F., 3,460,653.
Wofford, George D.; and Chandler, Mark, 3,472,967.
Worchel, Gerald S.; and Reber, Robert L., 3,462,658.
Young, John C., 3,460,954.
Yurasek, John F.; and Owens, Abner, Jr., 3,426,245.

Bendix Products Automotive: *See*—
Gardner, Delbert J., 3,439,322.

Bendix-Westinghouse Automotive Air Brake Company: *See*—
Kemble, Herbert A.; and Rigg, Camden A., 3,456,686.
Valentine, Harry M., 3,424,064.
Valentine, Harry M., 3,439,696.
Valentine, Harry M.; Stoudt, George W.; and Kemble, Herbert A., 3,456,991.

Bendixen, Knud Erik, to Aktieselskabet Burmeister & Wain's Maskin- og Skibsbyggeri. Pressure atomizing oil burner. 3,464,630, 9-2-69, Cl. 239-124.

Bendler, Hellmut: *See*—
Ballreich, Kurt; Bendler, Hellmut; and Gawlick, Heinz,3,455,244.
Gawlick, Heinz; and Bendler, Hellmut,3,439,618.
Gawlick, Heinz; Marondel, Gunther; Bendler, Hellmut; and Siegelin, Werner,3,468,730.

Bendrick, Edward S.: *See*—
Bownes, Kenneth A.; and Bendrick, Edward S.,3,472,802.
Gresenz, William M.; Bendrick, Edward S.; Weber, Bruce R.; and Archacki, William J.,3,483,149.

Bene, Georges J., to Institut Francais du Petrole, des Carburants et Lubrifiants. Well logging by nuclear magnetic detection of C^{13}. 3,439,260, 4-15-69, Cl. 324-0.5

Benedettelli, Amerigo. Short pasta cutting apparatus. 3,465,694, 9-9-69, Cl. 107-69.

Benedetti, Nello L., to Dole Valve Company, The. Gravity valve. 3,443,589, 5-13-69, Cl. 137-604.

Benedict, Gerald P., to Radio Corporation of America. Two phase clock pulse generator employing delay line having input-output means and characteristic impedance termination means at each end. 3,441,751, 4-29-69, Cl. 307-262.

Benedict, Janos, to Koninklijke Textielfabrieken Nijverdal-Ten Cate N.V. Machine for the continuous manufacture or handling of yarn cops. 3,421,705, 1-14-69, Cl. 242-35.5

Benedict, Janos: *See*—
Winter, Nikolaus; and Benedict, Janos,3,426,518.

Benedict, Theodore S.; and Norman, Howard W., to Motorola, Inc. Single crystal silicon rods. 3,447,902, 6-3-69, Cl. 23-223.5

Benedict, Theodore S.; and Ozias, Albert E., Jr., to Motorola, Inc. Method of making silicon. 3,438,810, 4-15-69, Cl. 117-213.

Benefield, Curt S.: *See*—
Maurer, Michael H.; and Benefield, Curt S.,3,475,120.

Benefield, William F.: *See*—
Case, Walter; and Benefield, William F.,3,482,666.

Benell S.p.A.: *See*—
Civolani, Bruno, 3,447,417.

Benerito, Ruth R.: *See*—
Berni, Ralph J.; Benerito, Ruth R.; and McKelvey, John B.,3,464,781.
McKelvey, John B.; Benerito, Ruth R.; and Berni, Ralph J.,3,432,252.
McKelvey, John B.; Benerito, Ruth R.; Berni, Ralph J.; and Burgis, Beverly G.,3,441,609.

Benes, Ladislav, to Vyskumny ustav mechanizacie a automatizacie. Tunnel diode circuit. 3,430,078, 2-25-69, Cl. 307-322.

Benesch, Alfred. Measuring device for orthopedic shoes. 3,419,961, 1-7-69, Cl. 33-3.

Benesch, Frederick E. Multi-sectioned container. 3,485,408, 12-23-69, Cl. 220-4.

Benesi, Hans A., to Shell Oil Company. Catalyst for paraffin isomerization. 3,475,345, 10-28-69, Cl. 252-455.

Beneteau, Joseph Oscar Charles, to Textron Inc., mesne. Hook for tailor's hook and eye. 3,471,905, 10-14-69, Cl. 24-227.

Beney, Richard William Oliver. Containers. 3,447,715, 6-3-69, Cl. 220-97.

Benezech, Claude: *See*—
Bernelin, Bernard Marcel; Frindel, Sebastien; and Benezech, Claude,3,468,072.

Benfield, Edward A., to Compak-O-Matic, Inc., mesne. Welding apparatus. 3,433,925, 3-18-69, Cl. 219-130.

Benford, James R., to Bausch & Lomb, Incorporated. Low power microscope semi-objective with field flattening lens. 3,476,462, 11-4-69, Cl. 350-177.

Benford, James R.; and Korones, Herbert D., to Bausch & Lomb Incorporated. Telescopic bow sighting device. 3,433,552, 3-18-69, Cl. 350-10.

Benford, James R.; and Rosenberger, Harold E., to Bausch & Lomb, Incorporated. Flat field apochromatic objective 7.5X, .20N.A.. 3,471,218, 10-7-69, Cl. 350-216.

Benfur Engineering Company: *See*—
Fuerst, Bernard, 3,436,867.

Bengelsdorf, Irving S.: *See*—
Kitasaki, Kiyoshi; Bengelsdorf, Irving S.; and Crawford, Robert F.,3,443,925.

Benger Laboratories Limited: *See*—
Fitzmaurice, Colin, 3,470,165.

Benghiat, Isaac: *See—*
Bruins, Paul F.; Benghiat, Isaac; and Frost, Harold R.,3,472,678.

Bengtsson, Hans Georg, to Telefonaktiebolaget LM Ericsson. Multistage magnetic shift register with each stage having four cores. 3,435,430, 3-25-69, Cl. 340-174.

Bengueral, Francois, to Sandoz Ltd., a/k/a Sandoz A.G. Sulfonated 1-cyclohexylamino-4-anilino- anthraquinones. 3,420,856, 1-7-69, Cl. 260-374.

Benham, Charles J. Power shaft coupler. 3,487,425, 12-30-69, Cl. 64-11.

Benham, Robert B., to United States of America, Navy. Jet engine noise suppressor. 3,458,008, 7-29-69, Cl. 181-43.

Benier, Pieter Johannes, to N.V. Nederlandsche Fabriek Van Bakkerijwerktuigen Voorheen G. J. Benier. Dough dividing machine. 3,485,187, 12-23-69, Cl. 107-15.

Benigno, James: *See—*
Weidner, Ralph J.; and Benigno, James,3,434,236.

Benin, Vladimir Lvovich: *See—*
Livshits, Abram Lazarevich; Rogachev, Ivan Sergeevich; Sosenko, Alexandr Borisovich; and Benin, Vladimir Lvovich,3,430,025.

Beninate, John V.; Boylston, Eileen K.; and Drake, George L., Jr., to United States of America, Agriculture. Cellulose-halomethyl methyl sulfide reaction process and product. 3,480,381, 11-25-69, Cl. 8-120.

Benincasa, John J.; and Hage, Marvin L., to United Aircraft Corporation. Weldable attachments for bonded sandwich panel structures. 3,463,526, 8-26-69, Cl. 287-189.36

Benith, Benedict R., to American Machine & Foundry Company. Blade guides for band slicer. 3,461,764, 8-19-69, Cl. 83-201.1

Benjamin, Harry, to Harshaw Chemicals Limited. Method for depositing a coating on the internal walls of capillary or smallbore tubes. 3,434,859, 3-25-69, Cl. 117-17.

Benjamin, Ivan E.: *See—*
Taylor, Albert E.; and Benjamin, Ivan E.,3,441,106.

Benjamin, James E.: *See—*
Bement, Lyle W.; Morning, William L.; Benjamin, James E.; South, Richard P.; Thompson, Richard B.; and Anglin, James M.,3,460,032.

Benjamin, James M., to Bell Telephone Laboratories, Incorporated. Pneumatic probe for handling flat objects. 3,425,736, 2-4-69, Cl. 294-64.

Benjamin, John G., to Minnesota Mining and Manufacturing Company. Feeding apparatus for sheet material. 3,430,952, 3-4-69, Cl. 271-74.

Benjamin, John G., to Minnesota Mining and Manufacturing Company. Feeding apparatus for sheet material. 3,452,981, 7-1-69, Cl. 271-64.

Benjamin, John W.: *See—*
Pierson, Charles F.; Benjamin, John W.; and Holland, Edward T., Jr.,3,452,393.

Benjamin, Lawrence Elnathan; and Stafiej, Stanley Frank, to American Cyanamid Company. 1,3-bis[bis-(difluoroamino) fluoromethyl] urea. 3,475,491, 10-28-69, Cl. 260-553.

Benjamin, Louis Edmond. 3-Amino-2-imino-4-(5-nitro-2-furyl)-Δ^4 -thiazoline hydrochloride. 3,471,510, 10-7-69, Cl. 260-306.7

Benjamin, Milton L.; and Walker, David D., to Erickson Tool Company. Swivel finger chuck. 3,420,538, 1-7-69, Cl. 279-4.

Benjamin, Milton L.; and Walker, David D., to Erickson Tool Company. Floating holder. 3,421,770, 1-14-69, Cl. 279-16.

Benjamin, Milton L.; and Walker, David D., to Erickson Tool Company. Collet chuck and the like. 3,425,705, 2-4-69, Cl. 279-56.

Benjamin, Milton L.; and Walker, David D., to Erickson Tool Company. Indexing fixture. 3,439,458, 4-22-69, Cl. 51-216.

Benjamin, Milton L.; and Walker, David D., to Erickson Tool Company. Drill chuck with coolant supply. 3,443,819, 5-13-69, Cl. 279-20.

Benjamin, Milton L.; and Walker, David D., to Erickson Tool Company. Self-releasing tap holder. 3,466,681, 9-16-69, Cl. 10-141.

Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N., to Erickson Tool Company. Boring bar insert. 3,434,376, 3-25-69, Cl. 77-58.

Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N., to Erickson Tool Company. Floating holder. 3,454,283, 7-8-69, Cl. 279-16.

Benjamin, Sidney Howard: *See—*
Krauer, Otto Albert; and Benjamin, Sidney Howard,3,442,352.
Krauer, Otto Albert; and Benjamin, Sidney Howard,3,470,438.

Benjamin, William H. Bathtub cover. 3,460,167, 8-12-69, Cl. 4-173.

Benjaminson, Albert: *See—*
Becker, John C.; Benjaminson, Albert; Blanz, Jerry A.; Karrer, Henry E.; and Moffat, Robert J.,3,456,216.

Benkel, Diethard: *See—*
Lenz, Hans-Joachim; and Benkel, Diethard,3,474,728.

Benko, Joseph R.; and Weber Hans J., to Allis-Chalmers Manufacturing Company. Conductor strip transformer winding having improved short circuit strength. 3,464,043, 8-26-69, Cl. 336-60.

Benko, Julius, to Lignosol Chemicals Limited. Nitrogen-containing aldonic acid composition and process of production. 3,483,127, 12-9-69, Cl. 252-180.

Benmussa, Henri; Marty, Pierre Rene Louis; and Kobus, Stanislas, to International Standard Electric Corporation. Dial pulse detecting system. 3,441,675, 4-29-69, Cl. 179-16.

Benn, Robert E.: *See—*
Epstein, Herman; and Benn, Robert E.,3,441,437.

Benn, Walter R., to Searle, G. D., & Co. 3-Oxygenated 19-norpregna-1,3,5(10), 17(20)- tetraen-21-als and enol esters thereof. 3,448,126, 6-3-69, Cl. 260-397.47

Benn, Walter R., to Searle, G. D., & Co. 3-Oxygenated pregnadien-21-als, 19-nor derivatives corresponding and enol esters thereof. 3,484,463, 12-16-69, Cl. 260-397.3

Benne, Georges: *See—*
Pfugfelder, Bernard; Benne, Georges; and Cazajous, Claude,3,437,666.

Benner, Charles E., to Air Reduction Company, Incorporated. Sound attenuator attachment for protective helmet. 3,430,261, 3-4-69, Cl. 2-3.

Benner, Floyd E., Jr.; and Loehr, Clifford E., to PPG Industries, Inc. Method for uniform gas distribution in process for producing pigmentary metal oxide. 3,467,498, 9-16-69, Cl. 23-202.

Benner, Gereld S.: *See—*
Menapace, Henry R.; Maly, Neil A.; Benner, Gereld S.; and Hillegass, Donald V.,3,446,861.

Benner, Kenneth W.: *See—*
Holoch, Klaus E.; Erhardt, Peter F.; and Benner, Kenneth W.,3,465,062.

Benner, Lloyd Robert, Sr., to Armour and Company. Apparatus and method for opening cans with tear strips. 3,477,597, 11-11-69, Cl. 214-304.

Benner, Paul B.; Beyers, Marvin E.; and Warren, Larry G., to Caterpillar Tractor Company. Coolant filled vehicle wheels. 3,423,129, 1-21-69, Cl. 301-6.

Benner, Philip E. Removal of ions from an ionized liquid. 3,448,026, 6-3-69, Cl. 204-180.

Benner, Russell E., to Valco Product Development, Inc. Push-pull tester with force-limiting fixture. 3,485,092, 12-23-69, Cl. 73-93.

Benner-Nawman, Inc.: *See—*
Lang, Oscar; and Kientz, Robert B., 3,485,108.

Bennes Marrel: *See—*
Bore, Raymond, 3,425,656.
Chanal, Roger, 3,433,173.

Bennes Marrell: *See—*
Chanal, Roger, 3,461,804.

Bennetch, Leonard M., to Pfizer, Chas. & Co., Inc. Anticorrosion pigments. 3,443,977, 5-13-69, Cl. 106-302.

Bennett, Alan J., to Tinnerman Products, Inc. Fastening device. 3,444,917, 5-20-69, Cl. 151-41.76

Bennett, Albert L.; and Manjikian, Serop, to Universal Water Corporation. Fabrication of reverse osmosis apparatus. 3,442,995, 5-6-69, Cl. 264-66.

Bennett, Benny Morris: *See—*
Lightner, Linn Stephen; Bennett, Benny Morris; and Asick, John Carl,3,439,314.

Bennett, Bernard, 2/3 to Knaul, Sigmund, and 1/3 to Pilvet, Aksel. Tumbler locks. 3,485,068, 12-23-69, Cl. 70-360.

Bennett, Brian S.: *See—*
Rousset, Rene P.; and Bennett, Brian S.,3,420,418.

Bennett, Charles H. Boat construction. 3,437,069, 4-8-69, Cl. 115-34.

Bennett, Charles P. Apparatus for metal working with explosives. 3,461,698, 8-19-69, Cl. 72-56.

Bennett, Clarence E.: *See—*
Bennett, John E.; and Bennett, Clarence E.,3,430,609.

Bennett, Clifton F.; and Mac Gregor, Warren S., to Crown Zellerbach Corporation. Process for preparing dialkyl disulfides. 3,452,100, 6-24-69, Cl. 260-608.

Bennett, Colin Earl Garnsworthy: *See—*
McKinnon, Neil Alexander; Bennett, Colin Earl Garnsworthy; Williams, Lloyd Stuart; and McTaggart, Frederick Kenneth,3,432,296.

Bennett, Donald C. Porous soldering iron tip. 3,439,857, 4-22-69, Cl. 228-54.

Bennett, Donald Perry, Jr., 1/2 to Gerry, Martin E. Fluid fuel and non-fluid oxidizer energy generation method. 3,421,323, 1-14-69, Cl. 60-220.

Bennett, Donald R., to Sylvania Electric Products, Inc. Sweep generator. 3,441,874, 4-29-69, Cl. 331-111.

Bennett, Donald R; Stark, Forrest O.; and Vogel, George E., to Dow Corning Corporation. Anticoagulant surfaces produced by radiation grafting heparin to a silicone substrate. 3,453,194, 7-1-69, Cl. 204-159.12

Bennett, Edward L.; Lockwood, Raymond M.; and Wichers, Henry W., to Litton Precision Products, Inc. Method and apparatus for beneficiating ores. 3,485,487, 12-23-69, Cl. 266-20.

Bennett, Edward L.: *See—*
Lockwood, Raymond M.; Bennett, Edward L.; and Graber, David A.,3,462,955.

Bennett, Edward O.: *See—*
Tant, Carl O.; Bennett, Edward O.; and Freebairn, Hugh T.,3,444,301.

Tant, Carl O.; Turner, Nan E.; and Bennett, Edward O.,3,470,096.
Bennett, Elmer T. Atomsphere analysis device. 3,447,907, 6-3-9, Cl. 23-254.
Bennett, Floyd M., to Loral Corporation. Synthetic doppler antenna system for direction finding. 3,438,036, 4-8-69, Cl. 343-113.
Bennett, Foster C., to Dow Chemical Company, The. Apparatus and method for metering molten metal. 3,448,898, 6-10-69, Cl. 222-152.
Bennett, Frank Colston, to Marconi Company Limited, The. Variable gain wide band bandpass amplifier. 3,447,091, 5-27-69, Cl. 330-18.
Bennett, Frank P., to GAF Corporation. Interlock mechanism for devices such as slide changers. 3,460,890, 8-12-69, Cl. 353-114.
Bennett, Frank P., to GAF Corporation. Slide projector for a rotary slide tray having a slide editing device. 3,462,216, 8-19-69, Cl. 353-117.
Bennett, Fred L., to Supercussion Drills, Inc. Earth-drilling bits. 3,429,390, 2-25-69, Cl. 175-343.
Bennett, Fred. Mechanical scouring device. 3,431,572, 3-11-69, Cl. 15-93.
Bennett, George Arthur; Berrie, Alistair Howard; and Windle, Raymond, to Imperial Chemical Industries Limited. Process for colouring aromatic polyester and cellulose acetate textile materials with water-insoluble disazo dyestuffs. 3,421,829, 1-14-69, Cl. 8-41.
Bennett, George Robert: *See*—
Molins, Desmond Walter; and Bennett, George Robert,3,459,456.
Bennett, Harold E.; Bennett, Jean M.; and Ashley, Edmond J., to United States of America, Navy. Measuring thin film thickness using interferometric- capacitance technique. 3,421,079, 1-7-69, Cl. 324-61.
Bennett, Hilton Alvin, Jr.: *See*—
Herp, Henry Carl, Jr.; Kelsall, Avery Crowell; Bowker, Gordon Stanley; and Bennett, Hilton Alvin, Jr.,3,453,087.
Bennett Industries, Inc.: *See*—
Aurelio, Salvatore P.; and Gardner, Thomas A., 3,466,689.
Gasbarra, Anthony J., 3,458,079.
Yates, George, Jr., 3,425,471.
Bennett, Jack Plymette; Gordon, David; and Kutcher, Myron Martin, to International Business Machines Corporation. Method of testing an ordered, multi-element electrical circuit array including connecting certain elements in common. 3,471,778, 10-7-69, Cl. 324-51.
Bennett, Jack P.; Harring, Charles A.; and Teo, William, to International Business Machines Corporation. Testing and addressing apparatus for an array of circuit elements. 3,441,849, 4-29-69, Cl. 324-73.
Bennett, James G., Jr.: *See*—
Wicker, Dan B.; Bennett, James G., Jr.; and Ward, Lowell G.,3,481,806.
Bennett, James Russell; and Brookman, Ronald R., to Burroughs Corporation. Digital data transparent transmission means. 3,482,213, 12-2-69, Cl. 340-172.5
Bennett, James Russell; Parker, William W.; and Schachner, Eugene, to Burroughs Corporation. File control system. 3,437,998, 4-8-69, Cl. 340-172.5
Bennett, Jean M.: *See*—
Bennett, Harold E.; Bennett, Jean M.; and Ashley, Edmond J.,3,421,079.
Bennett, John D., to Sun Oil Company. Tunnel oven with a series of moving barges and separate compartments. 3,464,892, 9-2-69, Cl. 202-98.
Bennett, John D., to Sun Oil Company. Process and apparatus for the distillation of solids. 3,481,720, 12-2-69, Cl. 48-89.
Bennett, John D., to Sun Oil Company. Tank level gauge. 3,482,447, 12-9-69, Cl. 73-321.
Bennett, John D.; and Peret, John W., to Sun Oil Company. Apparatus for and method of logging earth formations. 3,420,099, 1-7-69, Cl. 73-151.5
Bennett, John E.; and Bennett, Clarence E. System for detecting an abnormal operating condition. 3,430,609, 3-4-69, Cl. 122-448.
Bennett, John M.; and Hozak, Karel A.Smokers' smoke treatment attachment. 3,463,166, 8-26-69, Cl. 131-178.
Bennett, John Stanley William, to Gardner, J. Starkie, Limited. Structural unit particularly for staircases. 3,422,924, 1-21-69, Cl. 182-194.
Bennett, John V.; Smith, John L.; and Berry, Peter W., to Dunlop Company Limited, The. Sheet material and a method for the manufacture of sheet material. 3,458,343, 7-29-69, Cl. 117-65.2
Bennett, John W.: *See*—
Bever, Donald L.; and Bennett, John W.,3,444,834.
Bennett, Joseph M. Surgical drape. 3,435,821, 4-1-69, Cl. 128-132.
Bennett, Maurice Ronald, to English Electric Valve Company, Limited. Electron beam discharge tubes. 3,434,006, 3-18-69, Cl. 315-30.
Bennett, Milton C.; and Kulhavy, Joseph A., to Case, J. I., Company. Tractor-implement hitch system. 3,435,901, 4-1-69, Cl. 172-9.
Bennett, Norman C.: *See*—
Hortvet, Douglas R.; and Bennett, Norman C.,3,424,092.
Bennett, Paul F.: *See*—
Barker, Stephen; and Bennett, Paul F.,3,421,777.
Bennett, Ralph E. Inspection tool. 3,486,236, 12-30-69, Cl. 33-174.
Bennett, Raymond G.; and Risse, Willis H., to Novo Industrial Corporation-United Air Cleaner Div. Air cleaner with improved filter element assembly. 3,423,909, 1-28-69, Cl. 55-498.
Bennett, Richard J.: *See*—
Draper, Homer L.; Bennett, Richard J.; and Gagle, Duane W.,3,474,625.
Bennett, Robert A. Coin holder. 3,438,479, 4-15-69, Cl. 206-0.83
Bennett, Robert Putnam: *See*—
Hardy, William Baptist; and Bennett, Robert Putnam,3,461,149.
Hardy, William Baptist; and Bennett, Robert Putnam,3,467,687.
Hardy, William Baptist; and Bennett, Robert Putnam,3,467,694.
Bennett, Robert Putnam; and Davis, Stanley Myron, to American Cyanamid Company. Conversion of azo or azoxy compounds to isocyanates. 3,467,688, 9-16-69, Cl. 260-453.
Bennett, Robert W.; Blanding, Wendell S.; and Hausher, Lawrence B., to Corning Glass Works. Method of reshaping glass plates with fluid pressure. 3,473,909, 10-21-69, Cl. 65-106.
Bennett, Ronald W.; and Dunlope, Kenneth H., to General Motors Corporation. Fluid pressure sensing and condition indicating mechanism. 3,442,134, 5-6-69, Cl. 73-419.
Bennett, Roy Brian: *See*—
Heard, Jeffery Gerald; and Bennett, Roy Brian,3,476,961.
Bennett, Roy Brian; and Blair, William Carmichael, to English Electric Company, Limited, The. Cooling arrangement for stator end plates and eddy current shields of alternating current generators. 3,435,262, 3-25-69, Cl. 310-54.
Bennett, Royston Henry; and Cottrell, David Walter, to Imperial Smelting Corporation (N.S.C.) Limited. Fluorination of halogenated organic compounds. 3,453,337, 7-1-69, Cl. 260-650.
Bennett, Royston Henry; and Cottrell, David Walter, to Imperial Smelting Corporation (N.S.C.) Limited. Fluorination of halogenated organic compounds. 3,453,338, 7-1-69, Cl. 260-650.
Bennett Tool Limited: *See*—
Dawes, Frederick Alan, 3,452,911.
Bennett Tools Limited: *See*—
Dawes, Frederick Alan, 3,456,470.
Bennett, William B. Combination headrest and lifevest container. 3,437,374, 4-8-69, Cl. 297-391.
Bennett, William N., to Fitchburg Paper Company. High frequency drying of separate pieces. 3,430,350, 3-4-69, Cl. 34-1.
Bennett, William N., to Fitchburg Paper Company. Material treatment apparatus and method using a high frequency field. 3,470,621, 10-7-69, Cl. 34-1.
Bennett, William O., to Bulova Watch Company, Inc. Unitized tuning fork vibrator. 3,421,309, 1-14-69, Cl. 58-23.
Bennett, William O.; and Mutter, William W., to Bulova Watch Company, Inc. Actuating mechanism for timepiece date indicator. 3,421,310, 1-14-69, Cl. 58-58.
Bennett, William O.; and Mutter, William W., to Bulova Watch Company, Inc. Actuating mechanism for timepiece date indicator. 3,421,311, 1-14-69, Cl. 58-85.5
Bennett-Ireland, Inc.: *See*—
Brunig, William D., 3,457,907.
Bennewitz, Jurgen, to Mecano-Bundy G.m.b.H. Air conditioner for cooling and heating of automobiles. 3,427,821, 2-18-69, Cl. 62-324.
Bennin, Robert S., to United States of America, Navy. In-situ velocimeter. 3,447,371, 6-3-69, Cl. 73-170.
Benning, Anton: *See*—
Glass, Winfried; and Benning, Anton,3,475,115.
Benning, Calvin J.; and Adams, Ronald L., to Grace, W. R., & Co. Process for preparing a foamed crosslinked ethylene polymer. 3,470,119, 9-30-69, Cl. 260-2.5
Benning, Frederic N.: *See*—
Basil, Richard W.; and Benning, Frederic N.,3,449,561.
Benning, Herman Jozef Gerardus Maria: *See*—
Koster, Johan; and Benning, Herman Jozef Gerardus Maria,3,458,818.
Benninga, Harm, to Scholten's, W. A., Chemische Fabrieken N.V. Cationic and anionic substituted polysaccharides and process for preparing same. 3,467,647, 9-16-69, Cl. 260-209.
Bennion, David Ralph; and English, William Kirk, to AMP Incorporated. Multiaperture magnetic core. 3,435,432, 3-25-69, Cl. 340-174.
Bennion, David Ralph; and English, William Kirk, to AMP Incorporated. Magnetic core shift register. 3,435,433, 3-25-69, Cl. 340-174.
Bennis, William M. Hot wire cutting machine. 3,459,083, 8-5-69, Cl. 83-171.
Bennison, Michael Newstead, to Clarkson, W. J., Limited. Stitching of materials. 3,483,834, 12-16-69, Cl. 112-121.15
Benno, Edward L.: *See*—
Olson, Raymond G.; and Benno, Edward L.,3,468,464.
Beno, Richard L.: *See*—
Baum, Gary Allen; Beno, Richard L.; and Van Vorous, Theodore,3,428,546.

Benoit, George J., Jr., to Chevron Research Company. Alkenyl succinimide of tris (aminoalkyl) amine. 3,438,899, 4-15-69, Cl. 252-51.5
Benoit, Jacques L.: *See*—
Biet, Jean-Pierre; and Benoit, Jacques L.,3,452,206.
Benoit, Odile; and Giolito, Francois, to Progil. Hydraulic fluids containing aminotriols and derivatives thereof. 3,464,925, 9-2-69, Cl. 252-77.
Benoit, Roland A.; and Tripodi, Joseph, to Royalmetal Corporation. Adjustable bed. 3,478,372, 11-18-69, Cl. 5-63.
Benowitz, Paul; Ignatowitz, Michael; and Tutelman, David M., to Bell Telephone Laboratories, Incorporated. Character at a time data multiplexing system. 3,466,397, 9-9-69, Cl. 179-15.
Benowitz, Paul; and Kahlbrock, Heinz, to Bell Telephone Laboratories, Incorporated. Hub coupling system. 3,443,022, 5-6-69, Cl. 178-2.
Benrus Corporation: *See*—
Helterline, Leo L., Jr.; and Wootton, Gerald R., 3,451,210.
Bensa, Rena: *See*—
Weiss, Francis; and Bensa, Rena,3,423,432.
Bense, Roger; and Lauterbach, Norman E., to Sybron Corporation. Material handling container and method for using the same. 3,458,275, 7-29-69, Cl. 21-58.
Bense, William M., to Precision Universal Joint Corporation, mesne. Universal joint gauge. 3,438,135, 4-15-69, Cl. 33-172.
Bensimon, Jacques, to CSF-Compagnie Generale de Telegraphie Sans Fil. Thermionic energy converter. 3,431,439, 3-4-69, Cl. 310-4.
Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Piston for a rotary piston internal combustion engine. 3,445,058, 5-20-69, Cl. 230-145.
Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Piston for a rotary piston internal combustion engine. 3,461,848, 8-19-69, Cl. 123-8.
Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Polygonal piston for a rotary piston internal combustion engine. 3,469,505, 9-30-69, Cl. 92-177.
Bensinger, Wolf-Dieter; Derndinger, Hans-Otto; Zeilinger, Karl; Bader, Hans; and Kempin, Karl, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,481,312, 12-2-69, Cl. 123-8.
Bensinger, Wolf-Dieter; Dobler, Helmut; and Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston engine. 3,420,214, 1-7-69, Cl. 123-8.
Bensinger, Wolf-Dieter; Lamm, Heinz; and Hohenle, Hubert Zu, to Daimler-Benz Aktiengesellschaft. Mixture-compressing rotary piston internal combustion engine. 3,446,190, 5-27-69, Cl. 123-8.
Bensinger, Wolf-Dieter; and Schmidt, Karl-Walter, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,444,842, 5-20-69, Cl. 123-8.
Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H., to International Business Machines Corporation. Sample and hold circuit. 3,480,795, 11-25-69, Cl. 307-235.
Benson, Ann L. Position-holding headwear assembly. 3,467,111, 9-16-69, Cl. 132-46.
Benson, Arnold M., to Shell Oil Company. Filtration of solvent-water extracted tar sand. 3,459,653, 8-5-69, Cl. 208-11.
Benson, Bengt Anders. Calendar. 3,468,049, 9-23-69, Cl. 40-115.
Benson, Burton A., to Minnesota Mining and Manufacturing Company. Curable compositions comprising epoxy novolak and hydroxyl-containing polyarylene ether. 3,475,513, 10-28-69, Cl. 260-830.
Benson, Carl F., to Torrington Company, The. Retainer lug construction. 3,431,037, 3-4-69, Cl. 308-217.
Benson, Charyl S.: *See*—
Benson, Louis; and Benson, Charyl S.,3,450,294.
Benson, Clark K.: *See*—
Caridis, Andrew A.; and Benson, Clark K.,3,472,155.
Benson, David K., to Midwest Research Institute. Three-dimensional memory having photon excitable impurity semiconductor storage volume. 3,480,918, 11-25-69, Cl. 340-173.
Benson, Frederic R., to Atlas Chemical Industries, Inc. Process for retarding mold growth in bread. 3,485,638, 12-23-69, Cl. 99-91.
Benson, Glendon M., to New Process Industries, Inc. Thermal coring method and device. 3,468,387, 9-23-69, Cl. 175-16.
Benson, Gustav E., to Owens-Corning Fiberglas Corporation. Method of bulking yarn. 3,448,500, 6-10-69, Cl. 28-72.
Benson, Gustav E.; and Shafer, William C., to Owens-Corning Fiberglas Corporation. Spun roving. 3,472,015, 10-14-69, Cl. 57-140.
Benson, Harvey S.: *See*—
Rollwitz, William L.; and Benson, Harvey S.,3,431,551.
Benson, Homer E., to Con-Gas Service Corporation. Method for the production of a mixture of hydrogen and steam. 3,421,869, 1-14-69, Cl. 48-197.
Benson, James M.: *See*—
Baker, William C.; Benson, James M.; and Hawk, Charles E.,3,443,434.
Benson, John O., to General Mills, Inc. Process for producing a tubular, puffed product. 3,462,276, 8-19-69, Cl. 99-81.
Benson, John O., to General Mills, Inc. Process for producing a cereal food product. 3,482,992, 12-9-69, Cl. 99-81.
Benson, John O.; and Moen, Rolf, to General Mills, Inc. Process for preparing a puffed, concave shaped cereal product. 3,447,931, 6-3-69, Cl. 99-81.
Benson, John O.; and Smirnow, Peter, to General Mills, Inc. Process for preparing a filled food product. 3,477,851, 11-11-69, Cl. 99-83.
Benson, Keith W., Jr., to National Manufacturing Co. Sliding door hardware. 3,428,999, 2-25-69, Cl. 16-103.
Benson, Kenneth E.: *See*—
Beadle, William E.; and Benson, Kenneth E.,3,473,980.
Benson, Louis; and Benson, Charyl S. Liquid retaining tank. 3,450,294, 6-17-69, Cl. 220-5.
Benson, Martin Rudolph; and Burwell, Anson Clark, Jr., to Sylvania Electric Products, Inc. Electron tube mount comprising a plurality of electrode cages. 3,440,472, 4-22-69, Cl. 313-260.
Benson, Norman D.: *See*—
Richards, Samuel Hugh; and Benson, Norman D.,3,462,992.
Benson, Richard J. Suspension system. 3,460,852, 8-12-69, Cl. 280-124.
Benson, Robert A., to Scott Paper Company, mesne. Process for preparing paper with silicone release coating. 3,463,661, 8-26-69, Cl. 117-76.
Benson, Robert A.; and Jones, Robert L., to Scott Paper Company, mesne. Release paper for debossing plastic sheets. 3,480,466, 11-25-69, Cl. 117-76.
Benson, Robert W., to Xerox Corporation. Corona charging device with conductive shield and insulating means on said shield. 3,483,372, 12-9-69, Cl. 250-49.5
Benson, Robert W.; and Pearsall, Samuel H., Jr., to Bonitron, Inc. Device for sensing the edges of webs of varying transparencies. 3,461,302, 8-12-69, Cl. 250-219.
Benson, Warren E., Jr.; Breen, Stanley; and Monaghan, Ralph, to Kingsbury Technology Inc., mesne. Measurement of capacitivity of materials utilizing a shield. 3,465,243, 9-2-69, Cl. 324-61.
Benson, Warren E., Jr.: *See*—
Breen, Stanley; and Benson, Warren E., Jr.,3,450,988.
Benson, William H.; and Falconer, Thomas H., to Eriez Magnetics. Electrodynamic separator. 3,448,857, 6-10-69, Cl. 209-212.
Bensussan, Andre Marc; and Hodge, Ronald I., to CSF-Compagnie Generale de Telegraphie Sans Fils Atomic Energy of Canada Limited. Nuclear reactor with thermionic converter array Electric power generating system. 3,439,193, 4-15-69, Cl. 310-11.
Bentele, Max, to Curtiss-Wright Corporation. Smog control system. 3,438,198, 4-15-69, Cl. 60-30.
Bentele, Max; Biehl, Richard E.; and Loprete, Joseph F., to Curtiss-Wright Corporation. Modular refueling system for astronaut maneuvering units and the like. 3,456,445, 7-22-69, Cl. 60-250.
Benteler, Erich; and Kretschmer, Alfred, to Benteler-Werke A.G. Afterburner device for catalytic combustion of combustible components in the exhaust gas of an interal combustion engine. 3,445,195, 5-20-69, Cl. 23-288.
Benteler, Erich; and Schmidt, Hermann, to Benteler-Werke A.G. Separable container. 3,441,126, 4-29-69, Cl. 206-46.
Benteler, Erich; Schmidt, Wilhelm; and Schmidt, Willi, to Benteler-Werke A.G. Pipe union. 3,476,409, 11-4-69, Cl. 285-40.
Benteler, Helmut; and Menne, Heinz, to Benteler-Werke A.G. Manufacture of steel tubes. 3,470,605, 10-7-69, Cl. 29-498.
Benteler-Werke A.G.: *See*—
Benteler, Erich; and Schmidt, Hermann, 3,441,126.
Benteler, Erich; and Kretschmer, Alfred, 3,445,195.
Benteler, Erich; Schmidt, Wilhelm; and Schmidt, Willi, 3,476,409.
Benteler, Helmut; and Menne, Heinz, 3,470,605.
Benteler-Werke A.G. Werk Neuhaus: *See*—
Weinreich, Wolfgang, 3,429,787.
Benthake, Henrich; Futterer, Lothar; and Kunnen, Josef, to Rheinstahl Huttenwerke AG. Lubricating arrangement. 3,469,656, 9-30-69, Cl. 184-6.
Bentham, Frank Holdsworth. Tire rasps. 3,484,918, 12-23-69, Cl. 29-79.
Bentham, Frederick Percy; and Sheridan, Phillip Robert. Stage lighting control units. 3,448,338, 6-3-69, Cl. 315-295.
Bentham, Harold W.,: *See*—
Earling, Roy; and Scheuerman, Frank J., 3,431,695.
Benthos, Inc.: *See*—
Tyndale, Clyde L.; Efinger, Gerald H.; and Raymond, Samuel O., 3,444,510.
Bentley, Arthur P. Reduction gear transmission. 3,438,284, 4-15-69, Cl. 74-766.
Bentley, Donald J.: *See*—
Raible, Donald A.; Bentley, Donald J.; and DeWall, Richard A.,3,468,631.
Bentley Engineering Company Limited, The: *See*—
Manger, Charles Frederick; Klee, John Michael; and Carter, Richard James, 3,442,100.
Peberdy, Roland, 3,423,962.

Bentley, George P.; and Lord, Joseph S., to Kollmorgen Corporation. Automatic gain control for photomultiplier tubes employing a monitoring photocell. 3,446,972, 5-27-69, Cl. 250-207.
Bentley, George P.; and Lord, Joseph S., to Kollmorgen Corporation. Pulsed light photometric apparatus for measuring light characteristics of moving materials. 3,458,261, 7-29-69, Cl. 356-199.
Bentley, Gustavus A., to Federal-Mogul Corporation. Flex joint. 3,467,421, 9-16-69, Cl. 287-85.
Bentley, James Sydney, to Teleflex Products Limited. Window-operating gear. 3,452,479, 7-1-69, Cl. 49-324.
Bentley, John M., to Westinghouse Electric Corporation. Electronic switch and control circuit therefor. 3,469,114, 9-23-69, Cl. 307-254.
Bentley, John M.; and Aarons, Melvin W., to Westinghouse Electric Corporation. Method of making a semiconductor by oxidizing and simultaneous diffusion of impurities having different rates of diffusivity. 3,468,729, 9-23-69, Cl. 148-187.
Bentley, John M.; and Lytle, Walter J., to Westinghouse Electric Corporation. Gating circuit employing comparing means utilizing negative resistance device. 3,458,728, 7-29-69, Cl. 307-258.
Bentley, Kenneth Walter: *See—*
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter,3,464,992.
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter,3,464,993.
Bentley, Kenneth Walter, to Reckitt & Sons Limited. Endoethano nor oripavines and nor thebaines. 3,433,791, 3-18-69, Cl. 260-285.
Bentley, Kenneth Walter, to Reckitt & Sons, Limited. Endoetheno thebaines and oripavines. 3,442,900, 5-6-69, Cl. 260-285.
Bentley, Kenneth Walter, to Reckitt & Sons Limited. Thebaine and oripavine derivatives. 3,474,101, 10-21-69, Cl. 260-285.
Bentley, Kenneth Walter; Hardy, Denis Geoffrey; and Smith, Alan Charles Brandon, to Reckitt & Sons Limited. Thebaine and oripavine derivatives and pharmaceutically acceptable salts thereof. 3,464,994, 9-2-69, Cl. 260-285.
Bentley Laboratories: *See—*
Raible, Donald A.; Bentley, Donald J.; and DeWall, Richard A., 3,468,631.
Bentley, R William: *See—*
Jorgensen, Adam A.; Bentley, R William; and Paul, Joseph C.,3,474,364.
Bentley, Robert W.: *See—*
Jorgensen, Adam A.; Cieslak, Arthur B.; and Bentley, Robert W.,3,445,728.
Bentley, Roy; and Craig, John, to Imperial Chemical Industries Limited. Coating wood as metal with organopolysiloxane resin. 3,445,265, 5-20-69, Cl. 117-49.
Bentley, Roy; and Craig, John, to Imperial Chemical Industries Limited. Process for obtaining an anti-stick surface with an organosilicon and an organopolysiloxane and cooking utensil so treated. 3,463,660, 8-26-69, Cl. 117-72.
Bentley, Thomas A.; and Jackson, Carl D., to Jackson, C.D., Manufacturing, Inc. Grader bucket construction. 3,448,814, 6-10-69, Cl. 172-146.
Bentley, William; and Blood, Raymond, to Cotton, William, Limited. Knitting machines. 3,434,305, 3-25-69, Cl. 6-5.
Benton & Bowles, Inc.: *See—*
Curran, William W., 3,422,224.
Benton Harbor Engineering Works, Inc.: *See—*
Parrett, John T., 3,433,124.
Parrett, John T., 3,435,774.
Parrett, John T., 3,435,775.
Benton, Raymond L., to Kayline Manufacturing, Inc. Demountable top fastener device. 3,486,788, 12-30-69, Cl. 296-120.
Benton, Robert B.: *See—*
Kincheloe, William L.; and Benton, Robert B.,3,429,262.
Benton, Robert C., to Chemcut Corporation. Positioning apparatus with controls employing resistor increments. 3,467,900, 9-16-69, Cl. 318-18.
Bentov, Itzhak E., to Brunswick Corporation. Multiple conductor electrode. 3,474,791, 10-28-69, Cl. 128-418.
Benty, John L., to Westinghouse Electric Corporation. Phonograph record player assembly. 3,460,839, 8-12-69, Cl. 274-2.
Bentz, Erwin J. H.; and Rother, Francis J., to Caterpillar Tractor Company. Water temperature regulator seal. 3,454,220, 7-8-69, Cl. 236-34.
Bentz, Francis: *See—*
Rinkler, Heinrich; Bentz, Francis; and Nischk, Gunther,3,484,419.
Bentzinger, Harlan A.: *See—*
De Maria, John; and Bentzinger, Harlan A.,3,463,476.
Benyon, John: *See—*
Makeham, Sam Robert; Benyon, John; and Shepherd, John Michael,3,455,095.
Benz & Hilgers G.m.b.H.: *See—*
Bongartz, Hans; and Reinecke, Gunter, 3,452,515.
Benz, Emil: *See—*
Dosch, Peter; Benz, Emil; and Bruhin, Paul,3,467,149.
Benz, Jakob; and Schweizer, August, to Sandoz Ltd., (also known as Sandoz AG). Chromium or cobalt complexes of monoazo dyestuffs containing a trihalopyrimidyl group. 3,463,771, 8-26-69, Cl. 260-146.
Benz, Jakob; and Schweizer, August, to Sandoz Ltd. Pyrimidine dyestuffs. 3,466,286, 9-9-69, Cl. 260-256.5
Benz, John W., Jr., to Polymer Corporation, The. Electrical laminate and method of making same. 3,483,058, 12-9-69, Cl. 156-306.
Benz, Mark G.: *See—*
Martin, Donald L.; and Benz, Mark G.,3,429,032.
Benz, Willi: *See—*
Schiffers, Josef; and Benz, Willi,3,483,902.
Benzies, George Y., to Vicker Aircraft Holdings Limited. Apparatus for tensioning sheet materials. 3,434,181, 3-25-69, Cl. 18-19.
Benzing, James A.: *See—*
Vokes, Frank; and Benzing, James A.,3,436,893.
Benzing, Walter C., to Union Carbide Corporation. Dielectrically isolated structures and method. 3,469,147, 9-23-69, Cl. 317-101.
Benzing, Walter C., to Union Carbide Corporation. Silicon deposition process. 3,484,311, 12-16-69, Cl. 148-174.
Benzinger, Theodor H., to United States of America, Navy. Humidity actuated temperature control system. 3,474,790, 10-28-69, Cl. 128-402.
Benzon-Petersen, Boye, to AB Akerlund & Rausing, mesne. Method and apparatus for jointing side panels of a carton made from thermoplastic coated carton material. 3,421,416, 1-14-69, Cl. 93-51.1
Benzon, William, to Bethlehem Steel Corporation. Apparatus and method for separating and recovering relatively coarse mineral particles and relatively fine mineral particles from a slurry containing said particles. 3,446,349, 5-27-69, Cl. 209-17.
Ber, Esther; Nau, Pierre F. G.; and Dvolaitzky, Frajda, to Laboratoires Auclair. 1-(2-5-dioxo-pyrrolidino-4-(perhydroazepino)- butyne-2. 3,472,868, 10-14-69, Cl. 260-326.3
Beranek, Milan, to Tesla, narodni podnik. Compensator for thermoelectric control circuit. 3,487,201, 12-30-69, Cl. 219-494.
Berard, Dailey J., to Houston Contracting Company. Submarine pipeline repair chamber and method. 3,462,961, 8-26-69, Cl. 61-69.
Berardi, Leah C.; Martinez, Wilda H.; Boudreaux, Gordon J.; Piccolo, Biagio; and Frampton, Vernon L., to United States of America, Agriculture. Process for producing compressed dry food and product. 3,463,641, 8-26-69, Cl. 99-1.
Berardi, Lloyd F.; and Panetta, Michael A., to Xerox Corporation. Brush reclaiming. 3,477,450, 11-11-69, Cl. 134-1.
Berardi, Martin J. Filtering apparatus. 3,459,305, 8-5-69, Cl. 210-134.
Berardi, Martin Joseph. Filtering apparatus. 3,442,387, 5-6-69, Cl. 210-203.
Berardinelli, Frank M.: *See—*
Halek, George W.; and Berardinelli, Frank M.,3,436,299.
Berardinelli, Frank M.; and Bates, David L., to Celanese Corporation. Oxymethylene polymers. 3,455,867, 7-15-69, Cl. 260-37.
O'Brien, Merrill N., Jr.; and Berardinelli, Frank M.,3,442,850.
O'Brien, Merrill N., Jr.; and Berardinelli, Frank M.,3,444,265.
Berberian, John A., to BST Co. Ancillary machine feed tripping mechanism. 3,435,730, 4-1-69, Cl. 90-14.
Berberian, John A.; and Tringale, Joseph G. Cutting tool. 3,456,856, 7-22-69, Cl. 225-103.
Berberich, Bertold, to Siemens Aktiengesellschaft. Shock wave burner. 3,473,879, 10-21-69, Cl. 431-1.
Berberich, Bertold, to Siemens Aktiengesellschaft. MHD generator. 3,480,806, 11-25-69, Cl. 310-11.
Berberich, Joseph P.: *See—*
Bundy, Wayne M.; and Berberich, Joseph P.,3,477,809.
Berces, Attila: *See—*
Berczes, Zsolt Gyorgy; and Berces, Attila,3,460,223.
Berch, Julian; and Sookne, Arnold M., to Allied Chemical Corporation, mesne. Fabrics having improved tear strength obtained by treatment with high density oxidized polyethylene. 3,475,207, 10-28-69, Cl. 117-143.
Berch, Julian: *See—*
Sookne, Arnold Maurice; and Berch, Julian,3,442,694.
Berchtold, Donald R.: *See—*
Beals, Duane E.; Berchtold, Donald R.; O'Brien, James W.; Rosenberger, Paul C.; Sieving, Alfred W.; and Smith, Kerwyn B.,3,448,816.
Berchtold, Robert F. Hand drill with safety switch actuated by end-play movement of shaft. 3,471,662, 10-7-69, Cl. 200-61.58
Berckmoes, Philemon J. L., to Esso Research and Engineering Company. Method and apparatus for packaging solid or semisolid material. 3,469,363, 9-30-69, Cl. 53-25.
Berczes, Zsolt Gyorgy; and Berces, Attila. Device for fixing holes by method of smelting, especially into building walls made of concrete, granite, sandstone or limestone, and method of producing the device. 3,460,223, 8-12-69, Cl. 29-157.
Berczynski, Frank A., to Anderson, A. E., Construction Corporation. Stove checker. 3,456,937, 7-22-69, Cl. 263-51.
Berdan, Betty L.: *See—*
Luce, Betty M.; and Berdan, Betty L.,3,454,376.

Berdan, David: *See—*
Buck, David T.; Berdan, David; and Poplar, Herbert,3,487,356.

Berdan, Frohwald: *See—*
Wodl, Johann; and Berdan, Frohwald,3,482,710.

Bereday, Sigmund. Leaning device to reduce fatigue. 3,477,673, 11-11-69, Cl. 248-121.

Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, to Science Union et Cie, Societe Francaise de Recherche Medicale. Phenylisopropylamines and the salts thereof. 3,429,922, 2-25-69, Cl. 260-570.8

Berenbaum, Arthur, to Philco-Ford Corporation. Tuning mechanism. 3,447,387, 6-3-69, Cl. 74-10.8

Berenbaum, Arthur; and Shelby, Rufus F., to Philco-Ford Corporation. Tuning mechanism. 3,447,386, 6-3-69, Cl. 74-10.8

Berenbaum, Morris B.: *See—*
Bertozzi, Eugene R.; and Berenbaum, Morris B.,3,446,775.

Berenberg, Oscar: *See—*
Florek, Edward J.; De Paolo, Salvatore J.; O'Hare, Thomas F.; Haefeli, John E.; and Berenberg, Oscar,3,482,231.

Berends, Werner, to U.S. Philips Corporation, mesne. High-voltage apparatus having an insulation of foamed material. 3,465,154, 9-2-69, Cl. 250-108.

Berenson, Herman; Dornbush, Albert Carl; and Wehner, Donald Clifford, to American Cyanamid Company. Protecting fabrics with bacteriatoxic- fungitoxic applications of α,τ-alkylenebis [triphenylphosphonium salt]. 3,432,341, 3-11-69, Cl. 117-138.5

Beres, John F., to Philco-Ford Corporation. Ultralinear gain controllable amplifier. 3,447,094, 5-27-69, Cl. 330-29.

Beres, John F., to Philco-Ford Corporation. Auto radio volume and tone control circuit. 3,452,282, 6-24-69, Cl. 325-424.

Beresford, Morris M.: *See—*
Tanner, Robert H.; Cambridge, Ronan M.; and Beresford, Morris M.,3,470,533.

Beresik, Lawrence S.: *See—*
Greacen, John A.; and Beresik, Lawrence S.,3,426,548.

Beresin, Peter W.: *See—*
Hunkins, Stanley H.; and Beresin, Peter W.,3,483,329.

Bereskin, Alexander B., to Baldwin, D. H., Company. Variable time delay multivibrators. 3,476,865, 11-4-69, Cl. 84-1.04

Bereskin, Alexander B.: *See—*
Martin, Daniel W.; and Bereskin, Alexander B.,3,479,440.

Beretta, Carlo Pietro, to Fabbrica d'Armi Pietro Beretta S.p.A. Mechanism for delaying release of bolt after firing a firearm. 3,420,140, 1-7-69, Cl. 89-193.

Bereza, Svetlana Veniaminovna: *See—*
Korshak, Vasily Vladimirovich; Vinogradova, Svetlana Vasilievna; Salazkin, Sergei Nikolaevich; and Bereza, Svetlana Veniaminovna,3,480,597.

Bereziat, Andre: *See—*
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre,3,434,325.
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre,3,486,959.

Berezin, Evelyn: *See—*
Wolf, Edgar; Lau, Edward H.; and Berezin, Evelyn,3,461,552.

Berezin, Gilbert H., to Du Pont de Nemours, E. I., and Company. Oxetane derivatives. 3,449,369, 6-10-69, Cl. 260-333.

Bereznak, John, to Jaybee Manufacturing Corporation. Hinge having self-closing feature. 3,431,587, 3-11-69, Cl. 16-145.

Berezov, George, 1/2 to Seidman, Irving. Tape having data-processing information permanently recorded thereon. 3,471,684, 10-7-69, Cl. 235-61.11

Berg, Alex: *See—*
Noll, Klaus Reinhold; Berg, Alex; Machleidt, Hans; Roethele, Werner; and Engelhardt, Gunther,3,470,190.

Berg, Alfred Sheldon. Feed distributing apparatus. 3,478,723, 11-18-69, Cl. 119-52.

Berg, Anthony David: *See—*
McGee, James Dwyer; Beesley, John; and Berg, Anthony David,3,479,516.

Berg, Arthur A.; and Horowitz, Charles, to Berg Mfg. & Sales Co. Air assisted emergency spring brake assembly. 3,476,019, 11-4-69, Cl. 91-420.

Berg, Bengt, to Aktiebolaget Svenska Flaktfabriken. Method in operating conditioning towers for furnace fumes containing dust to be recovered by means of electrostatic precipitators. 3,431,707, 3-11-69, Cl. 55-20.

Berg, Clyde H. O. Method of retorting solids. 3,432,397, 3-11-69, Cl. 201-32.

Berg, Daniel: *See—*
Flowers, Leonard C.; and Berg, Daniel,3,457,171.

Berg, Daniel; and Dakin, Thomas W., to Westinghouse Electric Corporation. Circuit-interrupting devices using activated carbon. 3,469,047, 9-23-69, Cl. 200-144.

Berg, Daniel; and Flowers, Leonard C., to Westinghouse Electric Corporation. Thermally stabilized cellulose in electrical apparatus and method for making same. 3,469,219, 9-23-69, Cl. 336-58.

Berg, Dieter: *See—*
Weingaertner, Ernst; Berg, Dieter; and Streckebach, Karl Ernst Christian,3,468,677.

Berg, Edward T. Arrangements for installing fascias, gravel stops and gutters along the edges of roofs. 3,432,976, 3-18-69, Cl. 52-60.

Berg Electronics, Inc.: *See—*
Gropp, Walter E.; and Landman, Dirk, 3,436,946.
Sitzler, Fred C.; Kendall, Jerry A.; and Berg, Quentin, 3,430,185.

Berg Equipment Corporation: *See—*
Ruffing, Alphonse P., 3,422,799.

Berg, Florence Ray: *See—*
Sandler, Stanley Robert; and Berg, Florence Ray,3,425,960.
Sandler, Stanley Robert; and Berg, Florence Ray,3,437,671.
Sandler, Stanley Robert; Berg, Florence Ray; and Kitazawa, George,3,442,752.

Berg, Gerhard; Blumel, Harald; and Glathe, Manfred, to Chemische Werke Huls Aktiengesellschaft. Rubber tire reinforcement compositions, structures and methods. 3,476,642, 11-4-69, Cl. 161-227.

Berg, Gerhard: *See—*
Schafer, Johannes; Berg, Gerhard; and Engel, Frederico,3,450,797.

Berg, Harold A.: *See—*
Danielson, Alton J.; Erwin, James V.; and Berg, Harold A.,3,445,310.

Berg, Harold Bernard. Bag stitching machine. 3,459,142, 8-5-69, Cl. 112-10.

Berg, Jean Leroy. Receptacle and support for frozen confection. 3,459,296, 8-5-69, Cl. 206-56.

Berg, Jerry: *See—*
Doniger, Jerry; and Berg, Jerry,3,482,234.

Berg, John R.; and Wiese, Joseph A., Jr., to Minnesota Mining and Manufacturing Company. Fade resistant sheet for making color projection transparency. 3,483,013, 12-9-69, Cl. 117-36.2

Berg, Lennart G. Sealing device between a movable surface and a stationary surface. 3,466,054, 9-9-69, Cl. 277-169.

Berg Mfg. & Sales Co.: *See—*
Berg, Arthur A.; and Horowitz, Charles, 3,476,019.
Campanini, Sergio, 3,482,885.
Dobrikin, Harold L., 3,454,034.
Dobrikin, Harold L., 3,467,830.
Dobrikin, Harold L., 3,482,886.
Klimek, Boleslaw, 3,449,020.
Kobnick, Werner, 3,420,256.
Kobnick, Werner, 3,428,071.
Kobnick, Werner, 3,428,368.
Kobnick, Werner, 3,443,841.
Kobnick, Werner, 3,481,359.

Berg, Morris: *See—*
Schwartzwalder, Karl; and Berg, Morris,3,451,860.

Berg, Phalon J. Electric switch assembly for motorized games or the like. 3,439,135, 4-15-69, Cl. 200-52.

Berg, Quentin. Apparatus and method for inserting groups of lead wires in a circuit board. 3,429,039, 2-25-69, Cl. 29-626.

Berg, Quentin. Lead wire assembly. 3,437,460, 4-8-69, Cl. 29-193.5

Berg, Quentin: *See—*
Sitzler, Fred C.; Kendall, Jerry A.; and Berg, Quentin,3,430,185.

Berg, Raymond J. O. Blade sharpener. 3,479,776, 11-25-69, Cl. 51-249.

Berg, Robert C. Safety bottle cap. 3,430,796, 3-4-69, Cl. 215-9.

Berg, Robert E., to Fairchild Hiller Corporation. Target marking device. 3,478,686, 11-18-69, Cl. 102-35.

Berg, Robert H. Metering siphon construction. 3,481,202, 12-2-69, Cl. 73-432.

Berg, Robert L., to General Electric Company. High voltage current transformer. 3,456,222, 7-15-69, Cl. 336-92.

Berg, Robert S.; and Howland, Bradford, to Massachusetts Institute of Technology. Shielded magnetic core. 3,448,421, 6-3-69, Cl. 336-84.

Berg, Roy C., to Universal Oil Products Company. Process for the preparation of aryl-sbustituted normal paraffin hydrocarbons. 3,484,498, 12-16-69, Cl. 260-671.

Berg, Winfred M., to Pig Design Corp. Method of making geared pulley to eliminate burrs in pulley groove and to facilitate entry of belt into pulley. 3,436,801, 4-8-69, Cl. 29-159.

Bergandi Manufacturing Company, Inc.: *See—*
Rohrbacher, Herbert E., 3,438,473.
Rohrbacher, Herbert E., 3,446,254.

Bergantini, Attilio R., to Kaiser Steel Corporation. Beam fabricating method. 3,434,198, 3-25-69, Cl. 29-472.3

Berge, Jacques. Forming and conveying of cheese curd loaves. 3,481,747, 12-2-69, Cl. 99-115.

Berge, Jesse E. Air chuck. 3,467,401, 9-16-69, Cl. 279-4.

Bergemann, Horst: *See—*
Eaves, Dennis Robert; Bergemann, Horst; and Bishop, William Gordon Groves,3,449,985.

Bergen, Edward C.: *See—*
Lim, Kun S.; and Bergen, Edward C.,3,473,017.

Bergen, Henry J.: *See—*
Kiemele, Melvin; and Bergen, Henry J.,3,477,515.

Bergendal, Gunnar. Dental retainers. 3,425,125, 2-4-69, Cl. 32-63.

Bergendal, Gunnar. Vibrators for condensing tooth fillings. 3,473,224, 10-21-69, Cl. 32-54.

Bergener, Robert H.; and Stewart, Newell J., to Memorial Photo Service, Inc. Cemetery marker and improvements therein. 3,438,159, 4-15-69, Cl. 52-104.
Berger, Abe, to General Electric Company. Method for recovering organoalkoxysilanes by distillation with a base catalyst. 3,424,656, 1-28-69, Cl. 203-36.
Berger, Abe, to General Electric Company. Method for making organometallic hydrides. 3,439,008, 4-15-69, Cl. 260-429.
Berger, Abe, to General Electric Company. Method for making organofunctional-alkyl- siliconhydrides. 3,465,019, 9-2-69, Cl. 260-448.2
Berger, Abe, to General Electric Company. Organosulfonylalkylsilanes and methods for making them. 3,483,241, 12-9-69, Cl. 260-448.2
Berger, Alfred: *See—*
Casty, Richard; Berger, Alfred; Mosimann, Walter; and Abel, Heinz,3,421,830.
Berger, Alfred; and Lange, Burkhart, to Ciba Limited. Gelatinous preparations containing quaternary ammonium salt derivatives. 3,427,251, 2-11-69, Cl. 252-316.
Nachbur, Hermann; Berger, Alfred; Guth, Christian; and Maeder, Arthur,3,423,369.
Berger, Bernard A., to Northern Electric Company Limited. Resistor wrapping machine. 3,430,324, 3-4-69, Cl. 29-203.
Berger, Bryce, Limited: *See—*
Warwicker, Peter Griggs; and Corneoot, Peter Frank, 3,481,272.
Berger, Carl H., 1/2 to Gusich, Andrew J. Personal hygiene attachment for toilets. 3,425,066, 2-4-69, Cl. 4-7.
Berger, Carl: *See—*
Arrance, Frank C.; and Berger, Carl,3,437,580.
Arrance, Frank C.; and Berger, Carl,3,446,668.
Arrance, Frank C.; and Berger, Carl,3,446,669.
Berger, Carl, to McDonnell Douglas Corporation, mesne. Battery separator and battery incorporating said separator. 3,425,871, 2-4-69, Cl. 136-6.
Berger, Carl, to McDonnell Douglas Corporation. Deferred action self-timing fuel cell. 3,476,607, 11-4-69, Cl. 136-86.
Berger, Carl; and Arrance, Frank C., to McDonnell Douglas Corporation, mesne. Production of ion exchange membrane. 3,462,314, 8-19-69, Cl. 136-153.
Berger, Carl; and Arrance, Frank C., to McDonnell Douglas Corporation. Battery with an electrolyte of solid alkali particles. 3,471,330, 10-7-69, Cl. 136-6.
Berger, Carl; and Arrance, Frank C., to McDonnell Douglas Corporation, mesne. Battery including inorganic fibrous material. 3,476,601, 11-4-69, Cl. 136-6.
Toy, Madeline S.; Cannon, William A.; English, William David; and Berger, Carl,3,427,207.
Berger, Charles V., to Universal Oil Products Company. Process for the preparation of aryl-substituted normal paraffin hydrocarbons. 3,484,497, 12-16-69, Cl. 260-671.
Berger, Donald; and Berger, Sherwin N., to Universal Technical Products, Inc. Grasping implement. 3,481,641, 12-2-69, Cl. 294-100.
Berger, Emil J., Jr., to Turbo Machine Company. Preheating in yarn texturing. 3,445,996, 5-27-69, Cl. 57-34.
Berger, Emil J., Jr., to Turbo Machine Company. Friction twisting apparatus. 3,482,384, 12-9-69, Cl. 57-34.
Berger, Emil J., Jr.; and Wyatt, William Kirk, to Turbo Machine Company. Yarn assembly apparatus for false twisting yarn. 3,422,613, 1-21-69, Cl. 57-34.
Berger, Erich: *See—*
Brockhaus, Rudolf; and Berger, Erich,3,459,797.
Berger, Frank M.; Rosselet, Jean P.; and Ludwig, Bernard J., to Carter-Wallace, Inc. Bacterial fractions. 3,483,290, 12-9-69, Cl. 424-92.
Berger, George C. Powered silage distributor with adjustments for variably positioning and controlling flow. 3,456,986, 7-22-69, Cl. 302-60.
Berger, Gunther: *See—*
Keller, Wolfgang; and Berger, Gunther,3,454,368.
Berger, Hermann, to U.S. Philips Corporation, mesne. Voltage tunable L-C oscillator with amplitude limited positive feedback. 3,460,056, 8-5-69, Cl. 331-109.
Berger, Isaac, to Thoylo Corporation. Exerciser with pneumatic resistance element. 3,471,145, 10-7-69, Cl. 272-79.
Berger, Jack. strap handle. 3,480,318, 11-25-69, Cl. 294-33.
Berger, Jacob: *See—*
Gottfried, Louis; and Berger, Jacob,3,424,493.
Gottfried, Louis; and Berger, Jacob,3,442,527.
Gottfried, Louis; and Berger, Jacob,3,464,754.
Berger, Jerry E., to Shell Oil Company. Water absorbent material rendered water repellent with polyisobutenylsuccinic anhydride. 3,438,804, 4-15-69, Cl. 117-123.
Berger, Jerry E., to Shell Oil Company. Lubricant for rolling metals. 3,444,080, 5-13-69, Cl. 252-49.5
Berger, Joel G.: *See—*
Bosniack, David S.; Stogryn, Eugene L.; and Berger, Joel G.,3,441,520.
Berger, Johannes, to Zeiss-Stiftung, Carl, d.b.a. Carl Zeiss. Photographic objective having a continuously variable focal length. 3,464,763, 9-2-69, Cl. 350-176.
Berger, Karl: *See—*
Schutte, Helmut; Taschen, Gunter; and Berger, Karl,3,425,667.
Berger, Leo; and Corraz, Alfred John, to Hoffmann-La Roche Inc. Certain substituted phenyl amino-ethyl- pyridine intermediates. 3,484,449, 12-16-69, Cl. 260-296.
Berger, Leo; and Sternbach, Leo Henryk, to Hoffmann-La Roche, Inc. 2-Haloacetamidophenyl- cycloalkyl ketones. 3,466,328, 9-9-69, Cl. 260-562.
Berger, Lewis W. Ladder. 3,426,867, 2-11-69, Cl. 182-46.
Berger, Louis S. Bidding device for bridge. 3,420,526, 1-7-69, Cl. 273-148.
Berger, Louis; Broida, Daniel; and Bressler, Leo F. Colorimetric determination of creative phosphokinase. 3,485,724, 12-23-69, Cl. 195-103.5
Berger, Martin, to Esso Research and Engineering Company. Thin film magnetic light modulator. 3,421,002, 1-7-69, Cl. 250-199.
Berger, Milton: *See—*
Yovanovich, Joseph T., 3,464,327.
Berger, Norbert, to Ofenbau, Maerz, A.G. Frame for injectors in melting furnaces. 3,439,912, 4-22-69, Cl. 266-34.
Berger, Paul J. Articulated vehicle. 3,442,345, 5-6-69, Cl. 180-23.
Berger, Richard F.: *See—*
Cabbage, John T.; Blaker, David G.; and Berger, Richard F.,3,435,084.
Berger, Richard M.; Sproull, Reavis C.; and Holden, Herbert K., to American Filtrona Corporation. Apparatus for forming elongated elements. 3,455,766, 7-15-69, Cl. 156-433.
Berger, Richard, to Telefunken Patentverwertungsgesellschaft m.b.H. Method of making an electrical switch sub-assembly. 3,425,122, 2-4-69, Cl. 29-622.
Berger, Sherwin N.: *See—*
Berger, Donald; and Berger, Sherwin N.,3,481,641.
Berger, Stephen C. Torch tip. 3,430,868, 3-4-69, Cl. 239-590.3
Berger, Victor M.; and McDonnell, John L., to Harvic Manufacturing Corp. Food heating and conditioning device. 3,443,063, 5-6-69, Cl. 219-415.
Berger, Victor M.; and Scherer, Sidney A., to Electro-Char Corporation. Electric cooking apparatus. 3,447,444, 6-3-69, Cl. 99-340.
Bergere, Emric: *See—*
Blakeley, Richard H.; and Bergere, Emric,3,443,474.
Bergeron, Normand, to Kamborian, Jacob S. Stretching an upper about a last. 3,484,880, 12-23-69, Cl. 12-145.
Bergeron, Normand; Harriman, Allen C.; and Sitko, Antoni L., to Kamborian, Jacob S. Upper pulling over and shifting mechanism and method. 3,477,079, 11-11-69, Cl. 12-142.
Bergeron, Robert J.; Hair, Eddy R.; and Joffe, Frederick M., to Folger Coffee Company, The. Method for reducing foam in instant coffee. 3,436,227, 4-1-69, Cl. 99-71.
Berges, Arnold; Wehling, Karl; Rubsamen, Erich; and Wehling, Karl. Light fitting. 3,465,282, 9-2-69, Cl. 339-121.
Bergesen, Howard; and O'Rourke, Innis, Jr. Plants for producing curved concrete ducts. 3,465,394, 9-9-69, Cl. 25-2.
Bergesen, Howard; and O'Rourke, Innis, Jr. Packing tool for making channeled concrete bodies. 3,468,000, 9-23-69, Cl. 25-1.
Bergevin, Charles R. Wire feed control mechanism for spring coiling machine. 3,466,906, 9-16-69, Cl. 72-36.
Bergevin, Charles R. Spring coiling machine. 3,472,051, 10-14-69, Cl. 72-132.
Bergey, John M. K.: *See—*
Garrett, Lane S.; Bergey, John M. K.; Greenberg, Stuart G.; and Alessandro, Frank J.,3,469,084.
Bergez, Andre, to Societe Anonyme Wean-Damiron. Device for piling sheets. 3,471,142, 10-7-69, Cl. 271-64.
Bergfjord, John A.: *See—*
Levinos, Steven; and Bergfjord, John A.,3,440,047.
Berggren, Hans Gunnar: *See—*
Olsson, Tore Bertil Reinhold; and Berggren, Hans Gunnar,3,471,743.
Bergh, Arpad A.; and van Gelder, Willem, to Bell Telephone Laboratories, Incorporated. Etch masks on semiconductor surfaces. 3,479,237, 11-18-69, Cl. 156-11.
Bergh, Arpad A.: *See—*
Androshuk, Alex; Bergh, Arpad A.; and Erdman, Wiliam C.,3,424,661.
Androshuk, Alex; Bergh, Arpad A.; and Erdman, William C.,3,484,358.
Bergh Bros. Co., Inc.: *See—*
Bergh, George G.; and Bergh, Robert G., 3,426,938.
Bergh, George G.; and Bergh, Robert G., to Bergh Bros. Co., Inc. Covered box construction. 3,426,938, 2-11-69, Cl. 220-63.
Bergh, Lars-Gunnar, to Aktiebolaget Svenska Flaktfabriken. Method for heat treatment. 3,429,055, 2-25-69, Cl. 34-13.8
Bergh, Robert G.: *See—*
Bergh, George G.; and Bergh, Robert G.,3,426,938.
Berghash, Robert D., to Shield Mfg., Inc. Protective mouthpiece. 3,448,738, 6-10-69, Cl. 128-136.

Berghauoen, Philip E., to Cincinnati Milling Machine Co., The. E. D. M. power supply with current adjusting circuitry responsive to gap condition. 3,443,153, 5-6-69, Cl. 315-224.
Berghezan, Aurel I., to Union Carbide Corporation. Solid solution cement. 3,442,666, 5-6-69, Cl. 106-39.
Berghezan, Aurel I., to Union Carbide Corporation. Polycrystalline oxide bodies. 3,442,667, 5-6-69, Cl. 106-39.
Berghgracht, Marius. Process for the manufacture of paper or similar multi-ply bags, and bags obtained by the process. 3,473,446, 10-21-69, Cl. 93-35.
Berghoefer, Hans. Pipe coupling containing a valve. 3,477,689, 11-11-69, Cl. 251-149.9
Bergholm, Carl Arne, to Svenska Cellulosa Aktiebolaget. Nozzle means for breaking foam. 3,420,450, 1-7-69, Cl. 239-601.
Berghout, Cornelis Willem; Hokkeling, Pieter; and Luteijn, Anthonie Izaak, to North American Philips Company Inc.Method of manufacturing solid bodies containing Nb_3 Sn. 3,421,207, 1-14-69, Cl. 29-599.
Bergler, Otto, to Lutz, Eugen, KG, Maschinenfabrik. Hand-operated, belt-type sanding device for woodworking. 3,431,686, 3-11-69, Cl. 51-170.
Bergling, Charles Gunnar Birger; and Levin, Nils Herman, to Ingenjorsfirma Hebe AB. Roller conveyor. 3,471,002, 10-7-69, Cl. 198-127.
Berglund, Carl N., to Bell Telephone Laboratories, Incorporated. Electroluminescent cell comprising zinc-doped gallium arsenide on one surface of a silicon nitride layer and spaced chromium-gold electrodes on the other surface. 3,424,934, 1-28-69, Cl. 313-108.
Berglund, Carl N.; and Kahng, Dawon, to Bell Telephone Laboratories, Incorporated. Semiconductor amplifier using field effect modulation of tunneling. 3,462,700, 8-19-69, Cl. 330-35.
Berglund, Erling Gotthard: *See—*
Stalberg, Nils Gustav; and Berglund, Erling Gotthard,3,432,149.
Berglund, Harold A.: *See—*
Evans, Louis B.; and Berglund, Harold A.,3,470,822.
Berglund, Larry G.; and Novak, Robert P., to Trane Company, The. Absorption refrigerating system. 3,466,894, 9-16-69, Cl. 62-476.
Berglund, Robert S., to Minnesota Mining and Manufacturing Company. Lens for electron beam recorder. 3,483,427, 12-9-69, Cl. 315-31.
Berglund, Wilhelm A. Safety valve assembly for brake lines. 3,439,704, 4-22-69, Cl. 137-498.
Bergman, Charles T.: *See—*
Buchholz, Arnold R.; and Bergman, Charles T.,3,442,272.
Bergman, Erick H. Self-triggered veterinary attachment. 3,430,626, 3-4-69, Cl. 128-218.
Bergman, Frank C., to Garcy Corporation. Connector for holding aligned members against separation. 3,427,054, 2-11-69, Cl. 287-2.
Bergman, Gerald David: *See—*
Knott, Ralph David; and Bergman, Gerald David,3,443,171.
Bergman, Robert J., to Sperry Rand Corporation. Multilayered mated-film memory element having pairs of layers of differing H-. 3,480,929, 11-25-69, Cl. 340-174.
Bergman, Robert J.; and Prohofsky, Le Roy A., to Sperry Rand Corporation. Solid stack memory. 3,435,435, 3-25-69, Cl. 340-174.
Bergman, Robert J.: *See—*
Morgan, Dean W.; Kiernan, John P.; and Bergman, Robert J.,3,470,548.
Bergman, Roger M.: *See—*
Wilhelm, Harley A.; and Bergman, Roger M.,3,460,918.
Bergman, Sune Hearley, to Joh Mustad AB. Bass control of electronic musical instruments. 3,432,607, 3-11-69, Cl. 84-1.17
Bergmann, Horst Sigurd Max: *See—*
Toischer, Karl Engelbert Ludwig; and Bergmann, Horst Sigurd Max,3,431,312.
Toischer, Karl Engelbert Ludwig; and Bergmann, Horst Sigurd Max,3,434,802.
Bergmann, Oswald R., to Du Pont de Nemours, E. I., and Company. Cermets of aluminum with titanium carbide and titanium and zirconium borides. 3,459,515, 8-5-69, Cl. 29-182.8
Bergmann, Oswald R.; Buchwald, Joseph; and Cowan, George R., to Du Pont de Nemours, E. I., and Company. Process for initiating explosive and charge therefor. 3,439,408, 4-22-69, Cl. 29-470.1
Bergna, Horacio E., to Du Pont de Nemours, E. I., and Company. Metallic refractory compositions. 3,457,051, 7-22-69, Cl. 29-182.5
Bergner, Richard: *See—*
Grotsch, Georg, 3,428,105.
Bergo, Boris Georgievich: *See—*
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.
Bergonzo, Pierre. Automatic lathe and method for controlling said lathe. 3,483,776, 12-16-69, Cl. 82-21.
Bergougnou, Maurice A., to Esso Research and Engineering Company. Gas solids contacting structure. 3,442,028, 5-6-69, Cl. 34-57.
Bergquist, Clifford A., to Pendleton Tool Industries, Inc. Socket release mechanism. 3,438,291, 4-15-69, Cl. 81-62.
Bergquist, Clifford A.: *See—*
Over, John A.; and Bergquist, Clifford A.,3,436,992.
Bergquist, Frank H., to Harper-Wyman Company. Thermostatic oven control. 3,423,021, 1-21-69, Cl. 236-15.
Bergquist, Frank H., to Harper-Wyman Company. Double burner ovens. 3,469,567, 9-30-69, Cl. 126-39.
Bergren, Harley E. Hydrostatic transmission and controls therefor. 3,485,315, 12-23-69, Cl. 180-66.
Bergs, Arvids; and Lee, John T. M., to Atlas Chemical Industries, Inc. Impact testing apparatus. 3,426,578, 2-11-69, Cl. 73-12.
Bergsma, Rudolph, to Keng-Seeley Thermos Co. Method of making a temperature sensor. 3,465,434, 9-9-69, Cl. 29-613.
Bergson, Gustav. Elimination of dark current effects in photomultiplier tubes. 3,444,379, 5-13-69, Cl. 250-207.
Bergstein Packaging Trust: *See—*
Back, Leonard; and Shiverdecker, James H., 3,483,803.
Nerenberg, Robert W.; and Shiverdecker, James H., 3,451,194.
Bergsten, Hans Nils: *See—*
Bergstrom, Johan Gunnar; and Bergsten, Hans Nils,3,486,420.
Bergstrand, Gunnar M.; and Tove, Per-Arne. Magnetostrictive unit. 3,439,199, 4-15-69, Cl. 310-26.
Bergstrand, Sten-Ake, to Perstorp Aktiebolag. Process for producing iron-molybdate catalyst for oxidation of methanol to formaldehyde. 3,420,783, 1-7-69, Cl. 252-470.
Bergstrand, Sten-Ake, to Perstorp Aktiebolag. Tubular catalytic reactor including heating and cooling means within the reactor. 3,431,083, 3-4-69, Cl. 23-288.
Bergstrom, Carl P., to Crompton & Knowles Corporation. Let-off for terry. 3,425,457, 2-4-69, Cl. 139-25.
Bergstrom, Erik W.; and Borg, Nils Gunnar H., to Trafikaktiebolaget Grangesberg Oxelosund. Rolling mill. 3,435,648, 4-1-69, Cl. 72-1.
Bergstrom, Harold A., to Continental Can Company, Inc. Container and cover assembly therefor. 3,437,254, 4-8-69, Cl. 229-5.7
Bergstrom, James W.; and Sutherland, Glenn E., to General Motors Corporation. Method of fabricating ferrite bodies. 3,422,173, 1-14-69, Cl. 264-59.
Bergstrom, Johan Erik. Process and an apparatus for the manufacturing of spiral drills. 3,427,844, 2-18-69, Cl. 72-64.
Bergstrom, Johan Gunnar; and Bergsten, Hans Nils, to Aktiebolaget Atomenergi. Cylinder containing a piston having a groove containing a piston ring. 3,486,420, 12-30-69, Cl. 92-200.
Bergstrom, Ralph E., to Whiting Corporation. Multi-stage forced circulation evaporator and method. 3,468,293, 9-23-69, Cl. 122-34.
Bergstrom, Roger C., to Anderson Bros. Mfg. Co. Method and apparatus for packaging in protective atmosphere. 3,481,100, 12-2-69, Cl. 53-22.
Bergvall, Ardell J., to Goodrich, B. F., Company, The. Apparatus and method for the continuous casting of polyurethane flat belting. 3,487,143, 12-30-69, Cl. 264-216.
Bergwerksverband G.m.b.H.: *See—*
Glass, Winfried; and Benning, Anton, 3,475,115.
Jacobi, Oskar, 3,482,877.
Jankowski, Alfons; Kolling, Georg; and Paulsen, Siegfried, 3,472,846.
Luft, Karl-Friedrich, 3,479,860.
Luft, Karl Friedrich, 3,486,364.
Peters, Werner; Echterhoff, Heinrich; and Bertling, Heribert, 3,427,148.
Peters, Werner; and Lehmann, Joachim, 3,475,278.
Rieschel, Hans, 3,448,584.
Rieschel, Hans, 3,453,935.
Rieschel, Hans, 3,478,522.
Rieschel, Hans, 3,482,407.
Schmeling, Gerhard; Peters, Werner; and Kleisa, Kurt, 3,444,048.
Schuermann, Fritz, 3,447,328.
Schwarz, Ottmar; and Merten, Heinrich, 3,447,494.
Berhenke, Norman H.: *See—*
Reding, John N., Jr.; and Berhenke, Norman H.,3,420,658.
Berhold, Rosalynne J.: *See—*
Jacoby, David; and Berhold, Rosalynne J.,3,469,995.
Beriger, Ernst, to Ciba Limited. Process for the manufacture of monohalogeno- N-alkyl-acetoacetamides. 3,459,801, 8-5-69, Cl. 260-561.
Beriger, Ernst, to Ciba Limited. O-2,4-dichloro-4-iodophenyl (thio) phophates and (thio) phosphonates. 3,468,984, 9-23-69, Cl. 260-964.
Beriger, Ernst, to Ciba Limited. Partial chlorination of acetoacetic acid monoalkylamides. 3,483,252, 12-9-69, Cl. 260-561.
Beriger, Ernst; and Ebner, Ludwig, to Ciba Limited. Phosphorus carbonyl compounds. 3,456,039, 7-15-69, Cl. 260-935.
Berilla, Thomas. Automation device. 3,429,468, 2-25-69, Cl. 214-670.
Bering, Gerhard: *See—*
Beyersdorf, Hartwig; and Bering, Gerhard,3,432,706.
Beyersdorf, Hartwig; and Bering, Gerhard,3,435,267.
Beyersdorf, Hartwig; and Bering, Gerhard,3,445,691.
Beyersdorf, Hartwig; and Bering, Gerhard,3,469,134.

Beringer, C. J., Co., Inc.: *See—*
Zink, Julius, 3,455,357.
Berk, F. W., & Company Limited: *See—*
Jolles, Zvi Enrico, 3,487,040.
Berk, Henry: *See—*
Taylor, William F.; Sinfelt, John H.; and Berk, Henry,3,449,099.
Berk Limited: *See—*
Jolles, Zvi Enrico, 3,432,450.
Berk, Sigmund, to United States of America, Army. Electrical wall outlet. 3,426,142, 2-4-69, Cl. 174-58.
Berk, Sigmund, to United States of America, Army. Irradiation method for producing and increasing yield of 2,2'-bithienyl, 2-3'-bithienyl and 3,3'- bithienyl from thiophene. 3,454,480, 7-8-69, Cl. 204-158.
Berk, William L., to Lakeside Engineering Corporation. Aerotor plants for treatment of sewage and industrial wastes. 3,448,861, 6-10-69, Cl. 210-195.
Berke, Lanny R., 1/2 to Pomish, Herbert. Article counting device. 3,455,436, 7-15-69, Cl. 198-40.
Berke, Philip A.; and Rosen, William E. Diphenolic acetic acid compounds and their production. 3,471,537, 10-7-69, Cl. 260-429.
Berkebile, Glenn S., to Rexall Drug and Chemical Company. Apparatus and method for producing reinforced molding compositions. 3,469,826, 9-30-69, Cl. 263-3.
Berkeley, Frederick D., to Graham Manufacturing Co., Inc. Condenser for distillation column. 3,422,887, 1-21-69, Cl. 165-113.
Berkeley Instruments: *See—*
Hawley, Jack S.; and Towner, George R., 3,434,136.
Berkeley Scientific Laboratories: *See—*
Wattenburg, Willard H., 3,460,121.
Berkeley Scientific Laboratories, Inc.: *See—*
Glaser, Donald A., 3,476,291.
Berkelhamer, Louis H.: *See—*
Schapira, William W.; and Berkelhamer, Louis H.,3,436,709.
Berkelhammer, Gerald; and Asato, Goro, to American Cyanamid Company. 2-Amino-5-(5-nitro-1-substituted-2-imidazolyl)- 1,3,4-thiadiazoles and oxadiazoles. 3,452,035, 6-24-69, Cl. 260-306.8
Berkenblit, Melvin; and Reisman, Arnold, to International Business Machines Corporation. Method for producing improved epitaxial films. 3,476,592, 11-4-69, Cl. 117-201.
Berkey Photo, Inc.: *See—*
Klingenstein, Paul, 3,463,064.
Michalski, Maksymilian A., 3,465,204.
Michalski, Maksymilian A., 3,470,415.
Michalski, Maksymilian A., 3,483,401.
Berkhoudt, John G.; and Melisz, John M., to Lisk Savory Corporation. Tamper. 3,453,940, 7-8-69, Cl. 94-48.
Berkl, Erhard: *See—*
Dietrich, Isolde; Berkl, Erhard; and Weyl, Reinhard,3,481,800.
Berkl, Josef U., to Hi-Shear Coporation. Gage calibrator. 3,433,931, 3-18-69, Cl. 219-502.
Berkl, Josef U.; and Little, Gaybert B., to Hi-Shear Corporation. Radiant heater device. 3,420,984, 1-7-69, Cl. 219-502.
Berkl, Josef, to Hi-Shear Corporation. Heater for contracting shrinkable tubing. 3,475,592, 10-28-69, Cl. 219-388.
Berklege, Emil. Hydrostatic power-load coupling. 3,444,969, 5-20-69, Cl. 192-61.
Berkley & Company, Inc.: *See—*
Christensen, Harlan B.; and Johnson, Paul C., 3,451,305.
Johnson, Paul C., 3,428,979.
Johnson, Paul C.; and Christenson, Harlan B., 3,436,857.
Berkley, Eugene B., to Tension Envelope Corporation. Method and apparatus for enclosing material in a mailing piece. 3,457,696, 7-29-69, Cl. 53-31.
Berkley, Eugene Bertram, to Tension Envelope Corporation. Rotary envelope making machine having inter- changeable sections. 3,452,652, 7-1-69, Cl. 93-62.
Berkley, George Merrill. Drain apparatus for automatically draining condensate. 3,429,329, 2-25-69, Cl. 137-188.
Berkley Machine Company: *See—*
Lenk, James W.; Burnett, Arthur H.; and May, Kenneth D., 3,429,238.
Berkley, Stanley G., to United Aircraft Corporation. Method of joining metals. 3,469,062, 9-23-69, Cl. 219-92.
Berkovitz, Harry, to Westinghouse Electric Corporation. Elevator system. 3,447,637, 6-3-69, Cl. 187-52.
Berkowitz, Daniel. Restrainer for long tailed animals. 3,442,255, 5-6-69, Cl. 119-103.
Berkowitz, David G.: *See—*
Nocera, Joseph R.; and Berkowitz, David G.,3,487,295.
Berkowitz, Irving L., to Kason Hardware Corporation. Panel fasteners. 3,472,545, 10-14-69, Cl. 292-111.
Berkowitz, Lewis M.: *See—*
Feldman, Jacob R.; Fischer, Valentine J.; Berkowitz, Lewis M.; and Hammell, Matthew,3,441,417.
Berkoz, Belig: *See—*
Cross, Alexander D.; Edwards, John A.; and Berkoz, Belig,3,429,899.
Berkoz, Belig, to Syntex Corporation. 7-Halomethyl-19-nor steroids and processes for their preparation. 3,472,882, 10-14-69, Cl. 260-397.3
Berks, Colin John, to Expandite Limited. Devices for sealing expansion joints in bridge decking. 3,430,544, 3-4-69, Cl. 94-18.
Berkshire, Glen, & Berkshire, Wendell: *See—*
Stroble, Charles H.,, 3,420,252.
Berkshire, Robert H.: *See—*
Reid, Lee R.; and Berkshire, Robert H.,3,438,694.
Berlenbach, Bernard E. Ski binding. 3,430,971, 3-4-69, Cl. 280-11.35
Berlet, Edward. Towel holder. 3,430,877, 3-4-69, Cl. 242-55.2
Berleyoung, Walter J.; Kreuter, Kenneth G.; and Mueller, Klaus P., to Robertshaw Controls Company. Small pneumatic thermostat. 3,433,413, 3-18-69, Cl. 236-82.
Berlik, Leroy J., to Hardwick Stone Company. Wire grates for stoves. 3,442,261, 5-6-69, Cl. 126-215.
Berlin, A Samuel; Little, Vincent C.; Leadore, Toney E.; and Reid, Edwin J., Jr., to United States of America, Army. Safety latch for bouchon grenade fuze. 3,434,421, 3-25-69, Cl. 102-64.
Berlin, Irving. Solid state motor control. 3,450,974, 6-17-69, Cl. 318-331.
Berlin, Irving, to Varo, Inc. Solid state motor control. 3,474,319, 10-21-69, Cl. 318-331.
Berlin, Milton: *See—*
Rheingold, Lawrence M.; and Berlin, Milton,3,445,617.
Berliner, Jordan P.; and Richter, Sidney B., to Velsicol Chemical Corporation. N-alkanoyloxy phenoxyalkanamides as herbicides. 3,446,613, 5-27-69, Cl. 71-118.
Berliner, Jordan P.; and Richter, Sidney B., to Velsicol Chemical Corporation. Alkali metal salts of N-alkoxy substituted phenoxy alkylene amides. 3,446,832, 5-27-69, Cl. 260-453.
Berliner, Jordan P.; and Richter, Sidney B., to Velsicol Chemical Corporation. N,2,6-trimethoxy-3-chlorobenzomide. 3,474,124, 10-21-69, Cl. 260-453.
Berliner, Jordan P.: *See—*
Richter, Sidney B.; and Berliner, Jordan P.,3,485,865.
Berliner, Martin. Humidifier device. 3,431,038, 3-4-69, Cl. 312-31.
Berlings, Orests B. Photographic film cassettes and parts thereof. 3,437,028, 4-8-69, Cl. 95-67.
Berlinsky, Anthony A.; Varson, Robert J.; Pearson, Gordon W.; and Krebeck, Norman C., to United States of America, Commerce. Automatic sheet turner using a rotating vacuum head. 3,484,970, 12-23-69, Cl. 40-104.
Berly, Marcel Henri, to Ernault-Somua, H. Thread-cutting device. 3,472,104, 10-14-69, Cl. 82-5.
Berly, Marcel H., to Ernault-Somua, H. Temperature compensated machine tool cross-slide. 3,427,906, 2-18-69, Cl. 82-14.
Berman, Allen: *See—*
Mardarello, Alfred F.; and Berman, Allen,3,421,441.
Berman, Bernard S.: *See—*
Mathley, Harry W.; and Dwinell, John L., 3,469,723.
Berman, Elliot, to Itek Corporation. Electron beam recording on a photoconductive record medium. 3,453,639, 7-1-69, Cl. 346-1.
Berman, Elliot, to Itek Corporation. Combination electrostatic and electrochemical data storage process. 3,471,288, 10-7-69, Cl. 96-1.
Berman, Elliot, to Itek Corporation. Light sensitive heat erasable copying system. 3,477,850, 11-11-69, Cl. 96-48.
Berman, Elliot; and Ekman, Carl F. W., to Itek Corporation. Data processing system. 3,424,582, 1-28-69, Cl. 96-48.
Berman, Herbert; and Pastan, Harvey L., said Pastan assor to said Berman. Hand drilling apparatus. 3,427,720, 2-18-69, Cl. 32-27.
Berman, Irwin; and Pai, David H., to Wheeler, Foster, Corporation. Short time elevated temperature autofrettage. 3,438,113, 4-15-69, Cl. 29-404.
Berman, Irwin; and Pai, David H., to Foster Wheeler Corporation. Creep autofrettage. 3,438,114, 4-15-69, Cl. 29-404.
Berman, Irwin; and Pai, David H., to Foster Wheeler Corporation. Method of vessel fabrication. 3,439,405, 4-22-69, Cl. 29-407.
Berman, Jack N.: *See—*
Ostrofsky, Bernard; and Berman, Jack N.,3,435,776.
Berman, Leon, to CIT-Compagnie Industrielle des Telecommunications. Automatic frequency scanning in a two-way radio communication system. 3,426,279, 2-4-69, Cl. 325-21.
Berman, Leon, to CIT-Compagnie Industrielle des Telecommunications. Frequency synthesizer. 3,449,690, 6-10-69, Cl. 331-4.
Berman, Martin: *See—*
Ergun, Sabri; and Berman, Martin,3,463,310.
Berman, Marvin A.; Levy, Paul M.; and Mayer, Albert, to Capitol Hardware Manufacturing Co., Inc. Revolving garment rack. 3,435,959, 4-1-69, Cl. 211-163.
Berman, Merril; and Slaughter, John, to Worthington Corporation. Self-priming pump system with external actuating means. 3,434,430, 3-25-69, Cl. 103-113.
Berman, Nelson, to JFD Electronics Co., Division of Stratford Retreat House. Trimmer capacitor. 3,421,058, 1-7-69, Cl. 317-249.
Berman, Paul A., to Westinghouse Electric Corporation. Moisture content and combustion product removal apparatus for exhaust gases. 3,473,298, 10-21-69, Cl. 55-222.
Berman, Robert J.: *See—*
Grekila, Richard B.; Ho, Shih-Ming; Knochel, William J.; and Lin, Francis C. M., 3,469,729.

Mathley, Harry W.; and Dwinell, John L., 3,469,723.

Bermel, Thomas W.: *See—*
Bellman, Robert H.; and Bermel, Thomas W.,3,433,408.
Bellman, Robert H.; and Bermel, Thomas W.,3,461,898.

Bermel, Thomas W., to Corning Glass Works. Fluidic diode. 3,480,030, 11-25-69, Cl. 137-81.5

Bernadet, Didier: *See—*
Babany, Lucien; and Bernadet, Didier,3,421,104.

Bernaerts, Henry J. Captive air bubble air replenishment process. 3,472,193, 10-14-69, Cl. 114-67.

Bernard, Arthur A.; and Bernard, Richard A. Arc welding gun. 3,469,070, 9-23-69, Cl. 219-130.

Bernard, David W., to Honeywell, Inc. Flexure-mounted magnetic pinch roll. 3,428,308, 2-18-69, Cl. 271-51.

Bernard, Donald A., to Union Carbide Corporation. Noncatalytic vapor-phase oxidation of hydrocarbons in a dilution reactor. 3,483,229, 12-9-69, Cl. 260-348.5

Bernard, Francis A., to Collins Radio Company. Printer hammer drive circuit. 3,467,005, 9-16-69, Cl. 101-93.

Bernard, Frank J. Connector for display structures and the like. 3,449,002, 6-10-69, Cl. 287-52.03

Bernard, Georges; and Pelenc, Yves, to Merlin Gerin Societe Anonyme. Voltage measuring apparatus utilizing electro- optical components. 3,466,541, 9-9-69, Cl. 324-96.

Bernard, Herbert J. Trailer hitch. 3,434,735, 3-25-69, Cl. 280-406.

Bernard, Hugh A.; Daigle, Edwin E.; and Richardson, Jacob C., to Shell Oil Company. Core sampling. 3,438,452, 4-15-69, Cl. 175-6.

Bernard, Jacques Joseph Paul, to Degremont S.A. Apparatus for the biological purification of waste water. 3,464,559, 9-2-69, Cl. 210-195.

Bernard, Jacques Joseph Paul, to Degremont S.A. System for the purification of waste waters. 3,470,092, 9-30-69, Cl. 210-15.

Bernard, John E., Jr.: *See—*
Kelly, Daniel Allcott; and Bernard, John E., Jr.,3,456,571.

Bernard, Julien Pothier. Corpse-preserving coffins. 3,435,494, 4-1-69, Cl. 27-11.

Bernard, Nicolle Georgette Suzanne: *See—*
Deschamps, Andre; and Bernard, Nicolle Georgette Suzanne,3,457,174.

Bernard Plastics Molding Corporation: *See—*
Phillips, Robert; and Levine, Bernard B., 3,467,291.

Bernard, Rene G., to Societe d'Etudes Verrieres Appliquees (S.E.V.A.). Seal assemblies. 3,467,398, 9-16-69, Cl. 277-180.

Bernard, Richard A.: *See—*
Bernard, Arthur A.; and Bernard, Richard A.,3,469,070.

Bernard, Robert A.; Dove, William T.; and Smith, Julian C., to Du Pont de Nemours, E. I., and Company. Drum drying of polymeric material. 3,442,026, 5-6-69, Cl. 34-1.

Bernard, Robert J.: *See—*
McIlvin, Donald B.; and Bernard, Robert J.,3,443,279.

Bernardi, Eugene L.; and Krysiak, Henry A., to Reichhold Chemicals, Inc. Production of plastic printing plates. 3,479,952, 11-25-69, Cl. 101-401.1

Bernardi, Gian Carlo: *See—*
Sianesi, Dario; Bernardi, Gian Carlo; and Pasetti, Adolfo,3,451,907.
Sianesi, Dario; Bernardi, Gian Carlo; and Moggi, Giovanni,3,451,908.

Bernardi, Luigi; Bosisio, Germano; de Castiglione, Roberto; and Goffredo, Onofrio, to Societa Farmaceutici Italia. Peptides related to caerulein. 3,472,832, 10-14-69, Cl. 260-112.5

Bernardi, Luigi; Coda, Severina; Pegrassi, Lorenzo; and Suchowsky, Giselbert Karl, to Societa Farmaceutici Italia. Carboxamidoalkyl-1,3-benzoxazines. 3,427,313, 2-11-69, Cl. 260-244.

Bernardi, Oscar & Co.: *See—*
Bernardi, Oscar, 3,431,972.

Bernardi, Oscar, to Bernardi, Oscar & Co. Apparatus for removing snow from pitched roofs. 3,431,972, 3-11-69, Cl. 165-47.

Bernardin, Leo J., to Kimberly-Clark Corporation. Process of forming absorbent paper from a mixture of cellulosic fibers and partially crosslinked cellulosic fibers and paper thereof. 3,434,918, 3-25-69, Cl. 162-111.

Bernardin, Leo J., to Kimberly-Clark Corporation. Creped tissue formed from stiff crosslinked fibers and refined papermaking fibers. 3,455,778, 7-15-9, Cl. 162-113.

Bernardus, Gerardus: *See—*
van Damme-van Weele, Marina Adriana; and Bernardus, Gerardus,3,468,623.

Bernas, Arnold R.: *See—*
Warshaw, Abe; Negra, John S.; and Bernas, Arnold R.,3,466,159.

Bernas, Bedrich. Decomposition vessel. 3,430,804, 3-4-69, Cl. 220-63.

Bernath, Louis: *See—*
Wetch, Joseph R.; and Bernath, Louis,3,438,432.

Bernatsky, Alexandr Dmitrievich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.

Bernatz, Thomas H.; and Brady, Gerald A. Apparatus for making a tortilla product. 3,424,076, 1-28-69, Cl. 99-416.

Bernau, William A., to Universal Manufacturing Company, Inc. Rollers having synthetic components for toroidal coil winding machines. 3,465,977, 9-9-69, Cl. 242-4.

Bernau, William A.; and Yerman, Emil A., to Universal Manufacturing Company, Inc. Rollers for toroidal coil winding machines. 3,465,978, 9-9-69, Cl. 242-4.

Bernd, Leslie H., to General Electric Company. Air film drag reduction stabilization. 3,455,265, 7-15-69, Cl. 114-67.

Bernd, Leslie H., to General Electric Company. Bubble dissolution control by film formation. 3,483,132, 12-9-69, Cl. 252-307.

Berndt, Edward W.; and Vatne, Robert D., to Salsbury Laboratories. 3,5-Dinitrosalicylic acid, 5-nitrofurfuryli- dene hydrazide and compositions containing and methods employing the same for the control of histomoniasis. 3,424,845, 1-28-69, Cl. 424-232.

Berndtsson, Berndt Sigurd, to Svenska Oljeslageri Aktiebolaget. Process for the recovery of naphthoquinone formed in the catalytic vapor phase oxidation of naphthalene. 3,441,576, 4-29-69, Cl. 260-396.

Berne, Hans Jorg Otto: *See—*
Gibson, Baylor D.; and Berne, Hans Jorg Otto,3,475,896.

Bernelin, Bernard Marcel; Frindel, Sebastien; and Benezech, Claude, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques, de Telecommunications et d'Electronique 'Alcatel'. Arrangement for high precision cylindrical or plane grinding. 3,468,072, 9-23-69, Cl. 51-165.

Berner, Erling, to Berner Industries, Inc. Apparatus and method for continuous production of slabs or sheets. 3,427,372, 2-11-69, Cl. 264-51.

Berner Industries, Inc.: *See—*
Berner, Erling, 3,427,372.

Berner, Klaus: *See—*
Meininger, Fritz; Signon, Anni; and Berner, Klaus,3,445,450.

Bernert, Robert E.; Hatch, Albert M.; and Stekly, Zdenek J. J., to Avco Corporation. Composite superconductive conductor. 3,427,391, 2-11-69, Cl. 174-15.

Bernes, Donald B.: *See—*
Shallahamer, Roy A.; Naito, Frank Y.; and Bernes, Donald B.,3,429,981.

Bernet, Alois: *See—*
Schmid, Heinrich; and Bernet, Alois,3,440,909.

Berney, Claude; and Meylan, Claude, to S.A. de la Fabrique de Horlogerie Le Coultre et Co. Device for holding pivotal runners in position to enable connection of the runners by a bridge. 3,452,416, 7-1-69, Cl. 29-200.

Berney, Jean Claude, to Golay, Bernard, S.A. Escapement device. 3,440,815, 4-29-69, Cl. 58-123.

Berney, Joseph C. Foldable case setup apparatus. 3,435,738, 4-1-69, Cl. 93-53.

Berney, Joseph C. Apparatus for folding carton flaps. 3,452,653, 7-1-69, Cl. 93-84.

Berney, Joseph C. Automatic case assembling apparatus. 3,477,349, 11-11-69, Cl. 93-53.

Bernfeld, Moe M.; and Ziss, Sheldon. Alligator clamp disc brake. 3,465,849, 9-9-69, Cl. 188-72.

Bernhardt Apparatebau G.m.b.H., & Co.: *See—*
Koch, Helmut; Heidemann, Hans Heinrich; Birk, Peter; Busch, Hans-Jurgen; and Bernhardt, Jost, 3,441,964.

Bernhardt, Charles A.: *See—*
Cloyd, Harold S.; Bernhardt, Charles A.; and Mangold, Robert T.,3,443,722.

Bernhardt, Harold A.: *See—*
Bangerter, Kenneth R.; and Bernhardt, Harold A.,3,457,733.

Bernhardt, Jost: *See—*
Koch, Helmut; Heidemann, Hans Heinrich; Birk, Peter; Busch, Hans-Jurgen; and Bernhardt, Jost,3,441,964.

Bernhardt, Milton: *See—*
Sontag, Howard M.; and Bernhardt, Milton,3,475,751.

Bernhardt, Richard P.: *See—*
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P.,3,444,676.
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P.,3,463,018.

Bernhardt, Werner, to U.S. Philips Corporation, mesne. Radio push-button support assembly. 3,470,753, 10-7-69, Cl. 74-10.27

Bernhardt, William G. Aircraft wheel and tire assembling machine. 3,456,707, 7-22-69, Cl. 157-1.1

Bernheim, George W. Photoelectric switch adapter for lantern. 3,433,967, 3-18-69, Cl. 250-239.

Bernhoft, Gerlad W.: *See—*
Schott, Robert E.; and Bernhoft, Gerlad W.,3,439,709.

Bernholz, William F.; and Cox, Thomas C., to Drew Chemical Corporation. Trimethylolalkane esters and method of treating textile filaments therewith. 3,464,922, 9-2-69, Cl. 252-8.6

Berni, Ralph J.; Benerito, Ruth R.; and McKelvey, John B., to United States of America, Agriculture. Partial cellulose ethers with strong anion exchange properties. 3,464,781, 9-2-69, Cl. 8-116.2
Berni, Ralph J.: *See—*
McKelvey, John B.; Benerito, Ruth R.; and Berni, Ralph J.,3,432,252.
McKelvey, John B.; Benerito, Ruth R.; Berni, Ralph J.; and Burgis, Beverly G.,3,441,609.
Bernier, Donald R., to Intercontinental Systems, Inc., mesne. Input/output system. 3,435,419, 3-25-69, Cl. 340-172.5
Bernier, Donald R.; and Correll, Quentin E., to Intercontinental Systems, Inc., mesne. Input/output system. 3,423,735, 1-21-69, Cl. 340-172.5
Bernier, Louis E.; and Giblin, James P., to Wright, E. T., & Co., Inc. Shoe with cleats. 3,486,249, 12-30-69, Cl. 36-67.
Berning, Melvin J., to Freeman, Louis G., Company, The. Folding die guide means. 3,459,014, 8-5-69, Cl. 69-1.
Berning, Peter H.; and Small, Edward A., Jr., to Libbey-Owens-Ford Glass Company. Alloy film. 3,487,024, 12-30-69, Cl. 252-300.
Berninger, Harold O.: *See—*
Lally, Joseph E.; Heppner, Earl F.; and Berninger, Harold O.,3,441,279.
Bernotas, Ralph J.; Fisher, James W.; and Scott, Robert H., to General Motors Corporation. Self-loading scraper. 3,466,765, 9-16-69, Cl. 37-8.
Bernotat, Rainer: *See—*
Corleis, Horst; Bernotat, Rainer; and Roessger, Edgar,3,466,923.
Berns Air King Corporation: *See—*
Coleman, George; and Swimmer, James A., 3,472,496.
Bernsley, Cristina U. Auxiliary door lock. 3,423,974, 1-28-69, Cl. 70-416.
Bernstein, Benjamin T.; Orsen, Stefan; and Zucker, Melvin J., to American Standard, Inc. Thermographic recording apparatus. 3,453,647, 7-1-69, Cl. 346-76.
Bernstein, Bernard; and Suchmann, Robert V., to General Instrument Corporation. Combined connector and rectifier. 3,484,864, 12-16-69, Cl. 317-234.
Bernstein, Frank H., to Singer-General Precision Inc. Proportional control system. 3,462,615, 8-19-69, Cl. 307-243.
Bernstein, Harry. Measuring arrangement. 3,442,413, 5-6-69, Cl. 220-90.
Bernstein, Herbert L.: *See—*
Carlson, Carl O.; Bernstein, Herbert L.; and Sone, Eliot,3,465,352.
Bernstein, Jack, to Olin Mathieson Chemical Corporation. Adamantane derivatives of 2,2-diphenylacetamides. 3,439,036, 4-15-69, Cl. 260-559.
Bernstein, Jack, to Squibb, W. R., & Sons, Inc. O-alkyl or phenylalkyl benzohydroxamic acids. 3,444,232, 5-13-69, Cl. 260-453.
Bernstein, Jack, to Squibb, E. R., & Sons, Inc. Adamantyl glyoxals. 3,465,041, 9-2-69, Cl. 260-586.
Bernstein, Jack, to Squibb, E. R., & Sons, Inc. Benzohydroxamic acid derivatives. 3,474,132, 10-21-69, Cl. 260-500.5
Bernstein, Jack; and Losee, Kathryn Alice, to Squibb, E. R., & Sons, Inc., mesne. Process for preparing oxadiazinediones. 3,438,985, 4-15-69, Cl. 260-244.
Bernstein, Jack: *See—*
Narayanan, Venkatachala L.; and Bernstein, Jack,3,483,204.
Tschesche, Rudolf; Riemhofer, Franz; and Bernstein, Jack,3,466,327.
Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack,3,485,819.
Yale, Harry L.; and Bernstein, Jack,3,452,046.
Yale, Harry Louis; Sowinski, Francis Alexander; and Bernstein, Jack,3,454,598.
Bernstein, Morey. Demountable structural assembly. 3,423,072, 1-21-69, Cl. 256-24.
Bernstein, Philip: *See—*
Gobran, Riad H.; and Bernstein, Philip,3,450,681.
Bernstein, Philip, to Thiokol Chemical Corporation. Dibenzyl ammonium salt of dibenzyl thiolcarbamic acid. 3,445,510, 5-20-69, Cl. 260-501.12
Bernstein, Richard K.; and Spat, Melvin, to Clay-Adams, Inc. Sediment container and cap and analysis technique. 3,481,712, 12-2-69, Cl. 23-292.
Bernstein, Seymour: *See—*
Dusza, John Paul; Joseph, Joseph Peter; and Bernstein, Seymour,3,483,232.
Joseph, Joseph Peter; Dusza, John Paul; and Bernstein, Seymour,3,449,321.
Bernstein, William; and Wax, Robert L., to TRW Inc. Neutral-atom detector. 3,435,214, 3-25-69, Cl. 250-71.5
Berntson, Karl-Erik: *See—*
Ljungdell, Stig Helge Lennart; Uvelius, Karl-Birger; and Berntson, Karl-Erik,3,487,268.
Berny, Jean G.: *See—*
Girard, Andre J.; and Berny, Jean G.,3,454,338.
Bernz-O-Matic Corporation: *See—*
Webster, Milo E.; and Locke, Joseph K., 3,430,622.
Beroza, Morton: *See—*
Eddy, Gaines W.; Davis, Harry G.; Beroza, Morton; and McGovern, Terrence P.,3,485,868.
Berquist, Leonard G., to National-Standard Company. Methods and apparatus for use in the industrial magnetic materials art. 3,449,733, 6-10-69, Cl. 235-174.1
Berr, Charles E.: *See—*
Angelo, Rudolph J.; and Berr, Charles E.,3,449,296.
Berr et Cie: *See—*
Golberine, Boris; and Berr, Roger, 3,478,537.
Berr, Roger: *See—*
Golberine, Boris; and Berr, Roger,3,478,537.
Berridge, Francis James, to Courtaulds Limited. Warp beaming. 3,440,700, 4-29-69, Cl. 28-36.
Berrie, Alistair Howard: *See—*
Bennett, George Arthur; Berrie, Alistair Howard; and Windle, Raymond,3,421,829.
Berrier, Duane H. Distance safety sticker. 3,419,985, 1-7-69, Cl. 40-129.
Berriman, Lester P.; and Levy, Kenneth E., to Producers Cotton Oil. Apparatus and method of ginning and delinting cotton. 3,484,904, 12-23-69, Cl. 19-41.
Berry, Allan David, to General Electric Company. High and low voltage level threshold circuit employing two differential amplifier comparators. 3,428,826, 2-18-69, Cl. 307-235.
Berry, Allan David, to General Electric Company, Limited, The. High and low voltage level threshold circuit employing two differential amplifier comparators. 3,428,827, 2-18-69, Cl. 307-235.
Berry, Allan David; Johnson, Maurice Peter; and Whitbread, John Raymond, to General Electric Company Limited, The. Gain control circuit in a frequency division multiplex telecommunications system. 3,449,525, 6-10-69, Cl. 179-15.
Berry, Arthur L., to Pullman Incorporated. Railroad car and lading tiedown device therefor. 3,485,184, 12-23-69, Cl. 105-369.
Berry, Charles E., to Viking Oil Company. Navigation instrument. 3,432,093, 3-11-69, Cl. 235-61.
Berry, Clifford E.: *See—*
Brubaker, Wilson M.; and Berry, Clifford E.,3,478,204.
Berry, Daniel E. Mallet assembly. 3,472,512, 10-14-69, Cl. 273-83.
Berry, Eugene H.; and Nola, Frank J., to United States of America, National Aeronautics and Space Administration. Positive DC to negative DC converter. 3,470,443, 9-30-69, Cl. 321-2.
Berry, Eugene H.; and Nola, Frank J., to United States of America, National Aeronautics and Space Administration. Positive DC to positive DC converter. 3,470,446, 9-30-69, Cl. 321-2.
Berry, Ferdinand W. Spacer members for use in reinforced structures. 3,430,407, 3-4-69, Cl. 52-689.
Berry, Foster W.: *See—*
Satchell, Fred E.; and Berry, Foster W.,3,477,364.
Berry, Foster W.; and Cogger, Kenneth O., to Brunswick Corporation. Billiard cue. 3,436,079, 4-1-69, Cl. 273-68.
Berry, Frank, to Westinghouse Air Brake Company. Fluid pressure motor system. 3,420,144, 1-7-69, Cl. 91-45.
Berry, George L., to Jones & Laughlin Steel Corporation. Hot rolling of light gauge strip. 3,479,853, 11-25-69, Cl. 72-128.
Berry Industries, Inc.: *See—*
Barlow, Edson L., Jr., 3,462,614.
Berry, James W.; and Deutschman, Archie J., Jr., to Owens-Illinois, Inc.$KZnPO_4$ crystal and method of making same. 3,473,888, 10-21-69, Cl. 23-105.
Berry, Jean R.: *See—*
Brubaker, Wilson M.; and Berry, Clifford E.,3,478,204.
Berry, Jim S.: *See—*
Laughlin, Robert G.; and Berry, Jim S.,3,445,515.
Berry, John F., to American Packaging Corporation, The. Packaging machine. 3,471,997, 10-14-69, Cl. 53-386.
Berry, Kay L., to Pan American Petroleum Corporation. Oil shale retorting method. 3,464,913, 9-2-69, Cl. 208-11.
Berry, Kay L., to Pan American Petroleum Corporation. Catalytic oxidation in oil shale retorting. 3,487,004, 12-30-69, Cl. 208-11.
Berry, Lauren E., Sr. Pressure jet massage bath. 3,420,226, 1-7-69, Cl. 128-24.1
Berry Metal Company: *See—*
Berry, Walter V., 3,430,939.
Berry, Norman. Pumping system. 3,420,181, 1-7-69, Cl. 103-5.
Berry, Peter W.: *See—*
Bennett, John V.; Smith, John L.; and Berry, Peter W.,3,458,343.
Berry, Robert D.: *See—*
Reever, Karl D.; Boynton, Sumner H.; and Berry, Robert D.,3,462,782.
Berry, Robert L.; and Vodopia, Anthony L., to Hughes Aircraft Company. Throttling valve employing the Joule-Thomson effect. 3,457,730, 7-29-69, Cl. 62-223.
Berry, Rodney Cameron: *See—*
Jones, Billy J.; and Berry, Rodney Cameron,3,465,365.
Berry, Ronald, to Marshall, John Donald, and Bomar, Horace L., as Trustees of Carolina Patent Development Trust, The. Selvage tucking-in device. 3,425,461, 2-4-69, Cl. 139-122.
Berry, Roy David: *See—*
Clark, Charles Alfred; and Berry, Roy David,3,438,770.

Rhys, David Wade; and Berry, Roy David,3,427,140.
Berry, Thomas G., to Fairchild Hiller Corporation. Erectable structure with scissors link. 3,435,570, 4-1-69, Cl. 52-109.
Berry, Thomas G.; and Kline, Thomas F., to Fairchild Hiller Corporation. Self-extending antenna. 3,467,328, 9-16-69, Cl. 242-54.
Berry, Thomas L., Jr.; Mock, Vernon A.; and Olson, Richard S., to Litho-Paint Poster Company. Price rail marker. 3,423,860, 1-28-69, Cl. 40-10.
Berry, Walter Cunningham, Jr., to Du Pont de Nemours, E. I., and Company. Mechanical oscillating device. 3,421,381, 1-14-69, Cl. 74-103.
Berry, Walter V., to Berry Metal Company. Oxygen injection nozzle with externally projecting conduits. 3,430,939, 3-4-69, Cl. 266-34.
Berry, William B.: *See—*
Hinkle, Donald L., 3,463,229.
Berry, William J., to R & D Suppliers, Inc. Apparatus for cleaning containers. 3,448,743, 6-10-69, Cl. 134-58.
Berryhill, John R., to Dale Electronics, Inc. Capacitor and method of making same. 3,421,195, 1-14-69, Cl. 29-25.42
Berryhill, John R., to Dale Electronics Inc. Method of weighing. 3,481,838, 12-2-69, Cl. 204-1.
Berryman, Charles O., to Eaton Yale & Towne Inc. Safety device. 3,425,712, 2-4-69, Cl. 280-150.
Berryman, Charles O.; Oldberg, Sidney; and Carey, William R., to Eaton Yale & Towne, Inc. Vehicle safety system. 3,441,290, 4-29-69, Cl. 280-150.
Berryman, Ronald Arthur, to Horville Engineering Company, Limited. Load carrying device. 3,420,379, 1-7-69, Cl. 211-1.
Berryman, William O., to Schlumberger Technology Corporation. Valve system for a well packer apparatus. 3,465,821, 9-9-69, Cl. 166-237.
Berryman, William O., to Schlumberger Technology Corporation. Well packer having a selectively positionable valve means. 3,483,921, 12-16-69, Cl. 166-128.
Berryman, William O.; and Stachowiak, John E., to Schlumberger Technology Corporation. Well packer setting tool. 3,448,806, 6-10-69, Cl. 166-216.
Bers, Naum S., to Hughes Aircraft Company. Three-axis inertial reference sensor. 3,483,746, 12-16-69, Cl. 73-178.
Bersin, Richard L.: *See—*
Beaudry, Harvey J.; and Bersin, Richard L.,3,485,657.
Berson, Hugo; and Stolove, Solomon S. Portable dishwasher. 3,469,586, 9-30-69, Cl. 134-93.
Berstorff, Hermann, Machinenbau GmbH: *See—*
Anders, Dietmar; and Frolich, Hans, 3,482,279.
Bersworth, Frederick C. Cyanamide amino acid chelating agents. 3,429,915, 2-25-69, Cl. 260-534.
Bersworth, Frederick C., to Weston Chemical Corporation. Process for reacting ammonia-urea-polyamino polycarboxylic acid to form a chelating agent. 3,450,753, 6-17-69, Cl. 260-534.
Bert, Alain G., to Thomson-Varian. Impedance matched periodic slow wave structure. 3,466,576, 9-9-69, Cl. 333-31.
Bert, Alain G., to Thomson-Varian. Periodic slow wave structure. 3,471,738, 10-7-69, Cl. 315-3.5
Bert, Paul A., to Conn, C. G., Ltd. Laminated soundboard for a string instrument. 3,477,330, 11-11-69, Cl. 84-193.
Berta, James J., to Caterpillar Tractor Company. Hydraulic circuit with filter control. 3,485,368, 12-23-69, Cl. 210-90.
Berta, Victor T. Snowboard. 3,437,345, 4-8-69, Cl. 280-11.13
Bertea Corporation: *See—*
Wilkerson, William D., 3,450,375.
York, Ray A., 3,439,707.
Bertea, Octavian; Bomberger, Howard B., Jr.; and Plock, Layne F., to Reactive Metals, Inc. Method of handling crevice-corrosion inducing halide solutions. 3,469,975, 9-30-69, Cl. 75-175.5
Bertea, Octavian: *See—*
Stark, Louis E.; and Bertea, Octavian,3,476,171.
Bertele, Ludwig. Varifocal objective with movable lens component of positive refractivity. 3,466,113, 9-9-69, Cl. 350-184.
Bertelsen, Bruce I., to International Business Machines Corporation. Multiaperture thin film magnetic memory. 3,432,822, 3-11-69, Cl. 340-174.
Bertelsen, Bruce I.; Hottenrott, Hans G.; and Kump, Herbert J., to International Business Machines Corporation. Dispersion locked memory. 3,435,428, 3-25-69, Cl. 340-174.
Bertelsen, Bruce I.; Kump, Herbert J.; and Chang, Paul T., to International Business Machines Corporation. Thermostrictive recording. 3,465,311, 9-2-69, Cl. 340-174.
Bertelsen, Bruce I.; and Reimer, Arnold E., to International Business Machines Corporation. Photoetch method. 3,476,561, 11-4-69, Cl. 96-36.
Bertelson, Peter C.; and Sobkow, William, to Ford Motor Company. Seat belt utilization indicator. 3,428,362, 2-18-69, Cl. 297-385.
Berth, Michel; and Jean, Bernard Louis Pierre, to U.S. Philips Corporation, mesne. Method of manufacturing a target plate for use in a camera tube. 3,456,312, 7-22-69, Cl. 29-25.18
Berth, Peter: *See—*
Boosen, Karl-Josef; Berth, Peter; and Reese, Gunter,3,482,923.
Berth, Peter; Reese, Gunter; and Boosen, Karl-Josef, to Therachemie chemisch therapeutische Gesellschaft m.b.H. Process for improving the dyeing of living human hair with anionic direct dyes. 3,464,778, 9-2-69, Cl. 8-10.1
Bertheas, Jean, to CSF-Compagnie Generale de Telegraphie Sans Fil. High speed system for processing long range sonar pulses. 3,435,407, 3-25-69, Cl. 340-3.
Berthelsen, Viggo. Method of making structural elements. 3,470,598, 10-7-69, Cl. 29-155.
Berther, Clau: *See—*
Schultze, Hans-Joachim; Zbinden, Walter; and Berther, Clau,3,470,153.
Berther, Clau; and Sailer, Richard, to Inventa A.G. fur Forschung und Patentverwertung. Process for the purification of lactams. 3,476,744, 11-4-69, Cl. 260-239.3
Berthet, Aristide: *See—*
Rouanet, Jean; and Berthet, Aristide,3,439,759.
Berthiez, Charles William: *See—*
Deflandre, Rene, 3,470,790.
Berthmann, Adolf; and Lingens, Paul, to Dynamit Nobel Aktiengesellschaft. Fusible aromatic nitrocompound explosive composition containing particular wax as a desensitizer. 3,472,713, 10-14-69, Cl. 149-92.
Berthmann, Adolf: *See—*
Ludolphy, Erich; and Berthmann, Adolf,3,438,823.
Ludolphy, Erich; Martin, Gerhard; and Berthmann, Adolf,3,459,608.
Berthold, Wolfgang K., to International Telephone and Telegraph Corporation. Printing cathode ray tube apparatus. 3,424,862, 1-28-69, Cl. 178-6.6
Bertholdt, Heinz: *See—*
Pfleger, Robert; Bertholdt, Heinz; and Schulz, Wolfram,3,480,626.
Berthoux, Jean; Quillet, Jean-Pierre; and Schneider, Gerard, to Projil. Process for manufacturing carbon disulphide. 3,436,181, 4-1-69, Cl. 23-206.
Berticevich, Edward N.; and Billett, Ronald J., to FMC Corporation. Method and apparatus for separating articles. 3,473,659, 10-21-69, Cl. 209-108.
Bertics, John P.; and Royall, Robert L., Jr., to Erie Technological Products, Inc. Railing. 3,472,272, 10-14-69, Cl. 137-356.
Bertin & Cie: *See—*
Bertin, Jean Henri; and Salmon, Benjamin Jean Marcel, 3,459,137.
Bertin, Jean Henri, 3,464,365.
Bertin, Jean Henri, 3,465,845.
Bertin, Jean Henri; and Jacquot, Michel Jules, 3,482,645.
Duthion, Louis; and Doyotte, Claude Charles, 3,463,264.
Guienne, Paul Francois; and Faure, Marc Henri Jean, 3,438,457.
Guienne, Paul Francois; and Bertin, Jean Henri, 3,482,528.
Mordchelles-Regnier, Georges; Naudin, Paul Marcel; and Micheau, Pierre Gabriel, 3,462,905.
Bertin, Daniel; and Pierdet, Andre, to Roussel-UCLAF. Process for the preparation of unsaturated 19-nor steroids. 3,478,067, 11-11-69, Cl. 260-397.3
Bertin, Daniel; and Pierdet, Andre, to Roussel-UCLAP. 19-Nor-Δ^{4},9, 11.
Bertin, Daniel; Pierdet, Andre; Nedelec, Lucien; and Gasc, Jean-Claude, to Roussel-Uclaf. Novel process for preparation of 11-substituted Δ^{4},9-gonadiene-3-ones. 3,472,884, 10-14-69, Cl. 260-397.45
Bertin et Compagnie: *See—*
Dubois, Ernest Marie Rene, 3,420,100.
Giraud, Francois Louis, 3,439,772.
Bertin, Jean Henri: *See—*
Guienne, Paul Francois; and Bertin, Jean Henri,3,482,528.
Bertin, Jean Henri, to Bertin & Cie. Vehicle guiding tracks. 3,464,365, 9-2-69, Cl. 104-125.
Bertin, Jean Henri, to Bertin & Cie. Fluid cushion confining system for ground effect machines. 3,465,845, 9-9-69, Cl. 180-121.
Bertin, Jean Henri; and Jacquot, Michel Jules, to Bertin & Cie. Gas-cushion devices intended to support or guide a movable load. 3,482,645, 12-9-69, Cl. 180-124.
Bertin, Jean Henri; and Salmon, Benjamin Jean Marcel, to Bertin & Cie. Vehicle driving system. 3,459,137, 8-5-69, Cl. 104-148.
Bertin, Jean H., to Societe Bertin & Cie. Control system for fluid-cushion devices. 3,478,835, 11-18-69, Cl. 180-121.
Bertling, Heribert: *See—*
Peters, Werner; Echterhoff, Heinrich; and Bertling, Heribert,3,427,148.
Bertolacini, Ralph J., to Standard Oil Company (Indiana). Catalyst-rejuvenation process. 3,451,942, 6-24-69, Cl. 252-411.
Bertoldi, Attilio. Fabric treating apparatus. 3,475,927, 11-4-69, Cl. 68-18.
Bertolli, Alberto, to Bertolli, Francesco, S.p.A. Combined plastic closure and pouring spout. 3,465,925, 9-9-69, Cl. 222-536.
Bertolli, Francesco, S.p.A.: *See—*
Bertolli, Alberto, 3,465,925.
Berton, Pierre, to Office National d'Etudes et de Recherches Aerospatiales, (par Abreviation: O.N.E.R.A.). Missiles including at

least one gas generator making use of at least one liquid propellant component placed under the action of a driving gas and in plants for launching such missiles. 3,443,475, 5-13-69, Cl. 89-1.8
Bertone, Louis A., to Combustion Engineering, Inc. Nuclear reactor control rod gripping apparatus. 3,486,974, 12-30-69, Cl. 176-36.
Bertorelli, Orlando Leonard: *See*—
Mays, Robert K.; and Bertorelli, Orlando Leonard,3,437,441.
Bertoya, Hastings Charles Maxim: *See*—
Baker, Lionel Richard; Bertoya, Hastings Charles Maxim; Mann, John Raymond; and Whyte, James Norwood,3,436,154.
Bertozzi, Eugene R., to Thiokol Chemical Corporation. Production of high ranked blocked polysulfide polymers. 3,422,077, 1-14-69, Cl. 260-63.
Bertozzi, Eugene R., to Thiokol Chemical Corporation. Curable liquid polythiopolymercaptanpolyurethane polymers. 3,440,273, 4-22-69, Cl. 260-471.
Bertozzi, Eugene R., to Thiokol Chemical Corporation. Mercaptan containing polyurethane compositions, process and cured products thereof. 3,446,780, 5-27-69, Cl. 260-75.
Bertozzi, Eugene R.; and Berenbaum, Morris B., to Thiokol Chemical Corporation. Polymers containing gem-dithioether groups and process therefor. 3,446,775, 5-27-69, Cl. 260-67.
Bertram, Howard W.; Hart, Oliver P.; and Kleppinger, Robert E., to RCA Corporation. Housing and lead assembly for high-frequency semiconductor devices. 3,465,210, 9-2-69, Cl. 317-234.
Bertram, Sidney, to Bunker-Ramo Corporation, The. Automatic stereomapping system. 3,473,875, 10-21-69, Cl. 356-2.
Bertram, Wilhelm. Numerical display for electronic calculating machines. 3,470,556, 9-30-69, Cl. 340-324.
Bertrand, Jack: *See*—
Kalopissis, Gregoire; Bertrand, Jack; and Bugaut, Andree,3,442,599.
Bertrand, Jacques: *See*—
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques,3,442,895.
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques,3,467,483.
Bertrand, Louis; and McCarthy, Harry E., to Du Pont de Nemours, E. I., and Company. Fluid energy milling process. 3,462,086, 8-19-69, Cl. 241-5.
Bertrandi, Luigi; and Zacchetti, Edvino, to MICUS Immobiliar und Finanzierung Anstalt-Triesen Liechtenstein. Oil seal. 3,482,845, 12-9-69, Cl. 277-134.
Bertsch, Hugh C.; Hurd, Richard N.; McDermott, John P.; and White, Wesley R., to Mallinckrodt Chemical Works. N,N'-Dioleyldithiooxamide and polyvalent metal complexes thereof. 3,437,677, 4-8-69, Cl. 260-429.
Berube, Felix J . Sewing machine construction. 3,471,325, 10-7-69, Cl. 112-221.
Berube, Warren A.: *See*—
Beam, Harry L.; Berube, Warren A.; and Dobslaw, Gerhardt A.,3,454,143.
Berve, O. M., Company: *See*—
Berve, Orven M.; and Rich, Elwin F., 3,476,913.
Berve, Orven M.; and Rich, Elwin F., to Berve, O. M., Company. Electric sauna bath heater. 3,476,913, 11-4-69, Cl. 219-365.
Berwick Forge and Fabricating Corporation: *See*—
Smith, Ray F., 3,452,843.
Berwin, Ted W.: *See*—
Liu, Frederick F.; and Berwin, Ted W.,3,421,077.
Berz, Wolfgang. Roller-crushing mill. 3,458,142, 7-29-69, Cl. 241-103.
Berzeny, Charles P., Sr. Navy kerchief retaining device. 3,453,697, 7-8-69, Cl. 24-49.
Bescher, Ralph H., to Koppers Company, Inc. Sound control construction. 3,482,363, 12-9-69, Cl. 52-99.
Beschke, Helmut: *See*—
Schuler, Wilhelm Alfons; Schlichtegroll, Ansgar V.; Beschke, Helmut; and Klingler, Karl-Heinz,3,485,926.
Bescript, Frederick; and Whitecar, Alten E., to Smith Kline & French Laboratories. Apparatus for assembling sleeve and insert packages. 3,455,086, 7-15-69, Cl. 53-169.
Besceler, Charles, Company: *See*—
Field, Philip M., 3,472,589.
Pignone, Joseph, 3,469,917.
Pignone, Joseph, 3,486,807.
Beskow, Charles J. Means for applying threadolets. 3,456,941, 7-22-69, Cl. 269-19.
Beson, John, and: *See*—
Jackson, John G., Jr.; Beson, John, and; and Crawford, Charles R.,3,438,654.
Besse, Jean: *See*—
Cassagne, Pierre; Besse, Jean; and Finet, Jean,3,439,211.
Bessent, John W.: *See*—
Wallin, Gus W.; and Bessent, John W.,3,426,261.
Bessett, Clifford H.: *See*—
Boyd, James W.; and Bessett, Clifford H.,3,420,395.
Bessett, Clifford H., to Packaging Corporation of America. Carton construction. 3,430,838, 3-4-69, Cl. 229-2.5
Bessiere, Pierre Etienne, to Bosch, Robert, GmbH. Hydraulic regulator particularly for fuel injection pumps of internal combustion engines. 3,444,849, 5-20-69, Cl. 123-140.
Bessler, Alfons; and Hackenberg, Walter, to International Standard Electric Corporation. Marker for multi-stage crosspoint network. 3,446,918, 5-27-69, Cl. 179-18.
Besson, Paul; and Thirion, Pierre, to Ugine Kuhlmann. Process for manufacture of methylamines. 3,468,953, 9-23-69, Cl. 260-583.
Besson, Rene: *See*—
Beyner, Andre; Besson, Rene; and Chopard, Remy,3,447,311.
Besson, Rene, to Ebauches S. A. Spring-loaded instantaneous date indicator stepper and indexer. 3,427,799, 2-18-69, Cl. 58-58.
Besson, Rene, to S.A. Ebauches Neuchatel. Calendar timepiece. 3,449,905, 6-17-69, Cl. 58-58.
Bessonny, Al I.; and Bowen, Howard, to Machine-O-Matic, Inc. Photoelectric web registration control including two photocells which generate opposite polarity signals that terminate simultaneously. 3,432,672, 3-11-69, Cl. 250-219.
Bessot, Pierre, to Regie Nationale des Usines Renault. Interlocking clutch teeth. 3,424,289, 1-28-69, Cl. 192-108.
Best, Allan I.; Farnbach, William A.; and Smith, Jeffrey H., to Hewlett-Packard Company. Sampling oscilloscope sweep circuit. 3,423,629, 1-21-69, Cl. 315-22.
Best, Allan Irving, to Hewlett-Packard Company. Delay sweep for a sampling oscilloscope. 3,423,628, 1-21-69, Cl. 315-22.
Best, Carl L. Complete multipurpose straight line sprinkler. 3,424,381, 1-28-69, Cl. 239-97.
Best, Coe M., Jr. Hull form for boats. 3,450,090, 6-17-69, Cl. 115-39.
Best, Donald T.: *See*—
Barcaro, Eugene B.; and Best, Donald T.,3,456,250.
Best, Donald T., to Sperry Rand Corporation. Transmission line pumping system for parametrically excited oscillators. 3,437,829, 4-8-69, Cl. 307-88.
Best, Donald T., to Sperry Rand Corporation. Dual-transfer magnetic film shift register. 3,469,248, 9-23-69, Cl. 340-174.
Best Equipment Company: *See*—
Lanier, Jack K., 3,462,925.
Best Fertilizers Co.: *See*—
Kleissle, Raymond E., 3,454,170.
Best, Geoffrey Cyril: *See*—
Hooton, Ivor Noel; Best, Geoffrey Cyril; and Lewis, Alan,3,482,036.
Best, Howard S.; and Bowser, Robert Emery, to Corning Glass Works. Resistor tailoring machine. 3,425,166, 2-4-69, Cl. 51-14.
Best, Howard S.; Gibbs, Paul F.; and Mosely, Graham Hartwell, to Corning Glass Works. Automatic silk screening machine. 3,467,004, 9-16-69, Cl. 101-35.
Best, John S.: *See*—
Chisholm, Douglas S.; and Best, John S.,3,448,513.
Best Plastic Products, Inc.: *See*—
Isbey, Edward W.; and De Berard, Charles J., 3,453,165.
Best, Richard G.; and Medwedeff, Fred M., to Precision X-ray Company. Combination X-ray film and connecting means of a band of non-metallic pliable material. 3,469,099, 9-23-69, Cl. 250-70.
Best, Stanley G., to United Aircraft Corporation. Cabin pressure fault detector. 3,434,407, 3-25-69, Cl. 98-1.5
Best, Stanley G., to United Aircraft Corporation. Altitude-to-pressure transformation. 3,447,377, 6-3-69, Cl. 73-384.
Best, Stanley G., to United Aircraft Corporation. Magnetic shield for working with a beam of charged particles. 3,458,682, 7-29-69, Cl. 219-121.
Best, William J., to Ladney, Michael, Jr. Method of producing simulated wood grain finish. 3,467,538, 9-16-69, Cl. 117-8.
Best, William V.; and Hughes, Roland L., to Owens-Illinois, Inc. Apparatus and method for producing silica and other oxides. 3,423,324, 1-21-69, Cl. 252-301.4
Best, William V.; and Hughes, Roland L., to Owens-Illinois, Inc. Preparation of luminescent silica glass modified with a rare earth metal. 3,459,673, 8-5-69, Cl. 252-301.4
Best, William V.; Hughes, Roland L.; and Austin, Lewis M., to Owens-Illinois Glass Company. Art of producing metal salt impregnated silica- coated substrates. 3,440,092, 4-22-69, Cl. 117-33.5
Bestenrainer, Friedrich: *See*—
Wick, Richard; Bestenrainer, Friedrich; and Van Wasielewski, Erwin,3,433,140.
Bestenreiner, Freidrich: *See*—
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin,3,426,661.
Bestenreiner, Friedrich: *See*—
Biedermann, Friedrich; and Bestenreiner, Friedrich,3,434,403.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl,3,465,656.
Bester, Dennis R.; and Pratt, Geoffrey, to General Electric Company Limited, The. Detachable electrical switching apparatus for mul-

tichannel radiocommunication systems. 3,479,461, 11-18-69, Cl. 179-15.
Bester, Werner; Butzke, Fritz; Hennig, Fritz; Voelcker, Sven; Reier, Richard; and Rekewitz, Rudolf, to Siemens Aktiengesellschaft. Printing machine in a transmission system having a parity step added to the information steps to provide a safeguard against interferences. 3,450,836, 6-17-69, Cl. 178-23.
Besthorne, Gerard. Adjustable dual blade notching saw. 3,470,923, 10-7-69, Cl. 143-133.
Bestt Rollr Inc.: *See—*
Stoddart, Kenneth R., 3,462,202.
Beswick, Vernon L., to General Electric Company. Wire terminal electroluminescent device and manufacture. 3,430,088, 2-25-69, Cl. 313-108.
Bet, Donald V., to North American Rockwell Corporation. Integrated bar graph display having interrupt control. 3,469,252, 9-23-69, Cl. 340-324.
Beta Corporation: *See—*
Ehni, George J., III, 3,440,442.
Martin, Merle E., 3,480,938.
South, Robert F., 3,456,499.
Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung: *See—*
Altmann, Helmut, 3,438,039.
Bechtloff, Gert; and Szonn, Reinhold, 3,429,420.
Bechtloff, Gert, 3,446,332.
Bremer, Ferdinand; and Meyer, Joachim, 3,443,631.
Drescher, Hans-Peter; and Hoever, Paul, 3,428,363.
Erdmann, Piers Kaspar, 3,477,035.
Kappe, Klaus-Friedrich, 3,451,692.
Klein, Winfried, 3,464,249.
Krainer, Helmut; Muller, Reinhard; and Reich, Wolfhard, 3,425,380.
Maatsch, Jurgen; Achterfeld, Horst; and Kamphaus, Hartmut, 3,457,787.
Maatsch, Jurgen; and Winkler, Dieter, 3,485,619.
Pollanz, Alfred, 3,442,417.
Scheuba, Norbert; and Schlecker, Georg, 3,464,476.
Schwarz, Werner, 3,430,192.
Sedlacek, Hugo, 3,438,076.
Witt, Klaus Dieter, 3,428,939.
Beth, Richard A., to United States of America, Atomic Energy Commission. 2-η Pole electromagnet for focusing charged particles. 3,461,410, 8-12-69, Cl. 335-210.
Beth, Richard A., to United States of America, Atomic Energy Commission. Cancellation of external magnetic fields by inner and outer cylindrical current sheets. 3,466,499, 9-9-69, Cl. 315-85.
Beth, Richard A.: *See—*
Sampson, William B.; Britton, Richard B.; Kruger, P. Gerald; and Beth, Richard A.,3,423,706.
Bethea Company, Inc.: *See—*
Beck, John C., 3,437,741.
Bethell, James Robert; Gasson, Edward James; Hadley, David James; and Neale, Roderick Frank, to Distillers Company, Limited, The. Oxidation of acrolein and methacrolein with a molybdenum polyvalent metal-oxygen catalyst. 3,435,069, 3-25-69, Cl. 260-530.
Bethge, Hartmut: *See—*
Anders, Walter; Strakosch, Hans; Porth, Horst; and Bethge, Hartmut,3,469,302.
Bethlehem Steel Corporation: *See—*
Aho, Toivo O., 3,471,904.
Benzon, William, 3,446,349.
Brosious, Daniel R.; and Hollingshead, James K., 3,422,272.
Cummings, Timothy E., 3,449,915.
Donaldson, Orlin, 3,458,012.
Drake, Herbert J., 3,429,815.
Durkee, Jackson L.; Wall, William C.; and Lester, Raymond H., 3,457,717.
Frederiksen, Thomas R.; and Radtke, Warren K., 3,429,462.
Furr, Samuel T., 3,460,380.
Gee, Kenneth H., 3,451,863.
Humphries, Darral V.; and Lester, Raymond H., 3,430,293.
Jackson, Hugh J., 3,447,354.
Jandras, Henry L., 3,470,936.
Kane, John J.; and Conner, James P., 3,423,043.
Kern, Harvey Conrad, 3,446,444.
Koncsics, David M.; and Whitmore, Bruce C., 3,467,284.
Lythgoe, Jack R.; and Catherwood, Charles G., 3,460,935.
Mangan, Edmund L., 3,440,738.
Mangan, Edmund L., 3,474,668.
Mangan, Edmund L., 3,482,098.
Marsilio, Joseph V.; and Reihman, Richard F., 3,479,486.
Martocci, Anthony P., 3,441,709.
Neubaum, Victor A., 3,431,180.
Osterholtz, Carl E., 3,442,669.
Pearson, William J.; and Nippert, Charles R., Sr., 3,429,168.
Rauch, Stewart E., Jr., 3,468,768.
Rauch, Stewart E., Jr.; and Roberts, Carlton E., 3,479,260.
Reihman, Richard F., 3,421,572.
Riedel, John Y., 3,438,821.
Schoolcraft, John L.; Aubrey, William M., Jr.; and Moyer, William H., Jr., 3,456,792.
Shaffer, Robert S., 3,480,469.
Sheary, George W., III; and Steele, James E., 3,480,326.
Smollinger, Carl W.; and Overdurf, John Clyde, Jr., 3,446,000.
Stauffer, Donald R., 3,446,292.
Stone, Rodney L.; and Aubrey, William M., Jr., 3,441,401.
Tarhan, Mehmet Orhan, 3,448,039.
Tarhan, Mehmet Orhan, 3,449,460.
Thompson, Ted E., 3,476,362.
Villa, Peter S.; and Schaeffer, Charles W., 3,447,355.
Wise, Warren J., 3,475,807.
Bethune, Manning Kirk, to Friden, Inc. Printing machine character selection structure employing differential means. 3,422,945, 1-21-69, Cl. 197-16.
Bethune, Robert W. M. Stethoscope device. 3,455,293, 7-15-69, Cl. 128-2.05
Bethurem, Jack W. Floating dock structure. 3,478,710, 11-18-69, Cl. 114-0.5
Betiyan, Andris Alfredovich: *See—*
Svilpe, Karl Yanovich; Luft, Genakh Maxovich; Betiyan, Andris Alfredovich; Milyaev, Viktor Vasilievich; Gurevich, Leib Borukhovich; and Seleznev, Ivan Vasilievich,3,432,790.
Betjemann, Christopher H. Shipping gondola with removable side rails. 3,459,326, 8-5-69, Cl. 220-1.5
Betoule, Michel; L'Hermite, Pierre; and Petit, Rene, to U.S. Philips Corporation, mesne. Electron multiplier tube with a tapered collector and internal interelectrode decoupler. 3,465,190, 9-2-69, Cl. 313-105.
Betoule, Michel; L'Hermite, Pierre; and Petit, Rene. Electron multiplier tube with interposed dynodes supported by discs and insulating rings. 3,474,276, 10-21-69, Cl. 313-105.
Betoule, Michel; Petit, Rene; and Rebuffie, Jean Claude, to U.S. Philips Corporation, mesne. Photomultiplier. 3,444,414, 5-13-69, Cl. 313-96.
Betschart, Robert J., to FMC Corporation. Bagging apparatus. 3,424,290, 1-28-69, Cl. 193-2.
Betschart, Robert J., to FMC Corporation. Bagging apparatus. 3,434,711, 3-25-69, Cl. 271-62.
Betso, Stephen, to Ludwig, A., & Co., Inc. Selectively releasable engageable separable- leaf hinge. 3,431,591, 3-11-69, Cl. 16-171.
Bettcher, Bruce H. Detection and display system. 3,447,123, 5-27-69, Cl. 340-1.
Bettcher, Louis A., to Lab-O-Matic Corp. Power cleaver. 3,434,519, 3-25-69, Cl. 146-124.
Bettega, Bruno; and Stevens, George R. Anti-air pollution device for internal combustion engines. 3,477,227, 11-11-69, Cl. 60-30.
Bettega, Patrick J. Mechanical steering assist unit. 3,458,006, 7-29-69, Cl. 180-79.3
Bettencourt, Thomas S., to University of California, The Regents of the. Air nozzle cleaning device for crop harvesters. 3,455,448, 7-15-69, Cl. 209-134.
Bettens, Arsene H.: *See—*
Goodman, Ronald H.; Bettens, Arsene H.; and Josling, Clifford A.,3,476,939.
Better Built Machinery Corporation: *See—*
Goldman, David, 3,463,173.
Better Packages, Inc.: *See—*
Hill, Oscar K., 3,468,287.
Krueger, Theodore H., 3,465,629.
Krueger, Theodore H., 3,466,215.
Betteridge, Walter, to International Nickel Company, Inc., The. Iridium alloy. 3,429,698, 2-25-69, Cl. 75-172.
Betteridge, Walter; and Hope, James, to International Nickel Company, Inc., The. Separation of hydrogen from other gases. 3,438,178, 4-15-69, Cl. 55-58.
Bettinger, Stephen L. Control knob, free-wheeling. 3,473,408, 10-21-69, Cl. 74-553.
Betton, Arnold L., to Litton Systems, Inc. Oscillating switch regulator. 3,450,980, 6-17-69, Cl. 323-18.
Bettoni, Eugene C.: *See—*
Saussele, Charles W.; and Bettoni, Eugene C.,3,430,437.
Betts and Broughton Limited: *See—*
Broughton, Geoffrey, 3,444,572.
Betts, Colin: *See—*
Boorman, Colin; and Betts, Colin,3,439,737.
Betts, John Crowther. Body heating and cooling garment. 3,452,812, 7-1-69, Cl. 165-46.
Betts, Robert E., to Norco, Inc. Releasable locking device. 3,469,871, 9-30-69, Cl. 287-119.
Betts, Robert, to International Business Machines Corporation. Majority logic binary adder. 3,440,413, 4-22-69, Cl. 235-176.
Betts, William S.: *See—*
Mutter, James F.; and Betts, William S.,3,475,019.
Bettschen, Erwin: *See—*
Fischer, Franz; and Bettschen, Erwin,3,475,190.
Betty, Roy J., Jr.: *See—*
Malec, Robert E.; and Betty, Roy J., Jr.,3,432,527.
Betty, Roy J.; Malec, Robert E.; and Tippett, Charles E., to Armour Industrial Chemical Company, mesne. Corrosion inhibited acidic

solutions containing alkyl hexahydropyrimidine-2-thione and quaternary ammonium compounds. 3,457,185, 7-22-69, Cl. 252-391.
Betty, Roy J.; Marsh, Byron E.; and Marsh, Frederick S., to Armour Industrial Chemical Company. Precipitation of particulate suspensions in hydrocarbon systems. 3,437,466, 4-8-69, Cl. 44-71.
Betz, Bernard K., to Honeywell Inc. Zone temperature control system. 3,482,623, 12-9-69, Cl. 165-22.
Betz, Erich, to Deutsche Linoleum-Werke A.G. Foamed plastic plate. 3,484,331, 12-16-69, Cl. 161-69.
Betz, Erwin Carl, to Universal Oil Products Company. Heat recovery system for drying ovens. 3,486,841, 12-30-69, Cl. 23-2.
Betz, Jack D.; and Guy, Glen E., to General Electric Company. Electronic error detection and message routing system for a digital communication system. 3,439,329, 4-15-69, Cl. 340-146.1
Betz Laboratories, Inc.: *See*—
Dorwart, George E., III, 3,437,437.
Gaughan, Philip J.; Dorwart, George E., III; and Lord, John B., 3,425,952.
Gaughan, Philip J.; Dorwart, George E.; and Lord, John B., 3,427,252.
Gonzalez, Gerardo A., 3,437,583.
Gonzalez, Gerardo A., 3,442,791.
Noll, Charles A.; and La Salvia, Luciano J., 3,468,796.
Richards, James H., 3,422,022.
Shema, Bernard F.; Reilly, John P.; and Kubasko, Paul E., 3,426,134.
Betz, Rudolf. Apparatus for packing ampules into cartons or like containers. 3,478,484, 11-18-69, Cl. 53-26.
Betzler, Otto, to Weinig, Michael KG. Method of grinding profiles. 3,436,874, 4-8-69, Cl. 51-325.
Betzold, Edward R.; and Magers, William M., to United States of America, Navy, mesne. Gun port shield. 3,453,929, 7-8-69, Cl. 89-36.
Beuchel, Gunter: *See*—
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Beuchle, Friedrich, to Teves, Alfred, KG. Disk-brake system with floating brake disk. 3,435,924, 4-1-69, Cl. 188-218.
Beuchle, Friedrich, to Teves, Alfred, GmbH. Fixed-yoke disk brake. 3,478,844, 11-18-69, Cl. 188-18.
Beuchle, Friedrich; Hahm, Heinz; Klein, Christof Hans; and Beller, Hans, to Teves, Alfred, G.m.b.H. Brakeshoe construction for disk brakes. 3,477,551, 11-11-69, Cl. 188-250.
Beuk, Jack F. Process fo producing palnt proteases. 3,446,706, 5-27-69, Cl. 195-66.
Beukenkamp, Cornelius, Jr. Collar having a tube-like construction. 3,430,264, 3-4-69, Cl. 2-141.
Beuker, Martinus, to Winkler-Atlas Manufacturing Limited. Ovens. 3,440,975, 4-29-69, Cl. 107-54.
Beumel, Oscar F., Jr.; Smith, William Novis, Jr.; and Harris, Robert F., to Foote Mineral Company. Method for making lithium borohydride. 3,460,919, 8-12-69, Cl. 23-364.
Beumel, Oscar Francis, Jr., to Foote Mineral Company. Method of making phenyllithium. 3,446,860, 5-27-69, Cl. 260-665.
Beumer, Peter: *See*—
Zirngibl, Hans; Brandle, Karl; Beumer, Peter; and Weidmann, Walter,3,485,584.
Beurer, Frederick C., Sr., to United Aircraft Corporation. Engine inlet air particle separator. 3,421,296, 1-14-69, Cl. 55-306.
Beurtheret, Charles A., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Heat exchanger. 3,455,376, 7-15-69, Cl. 165-1.
Beurtheret, Charles A.; and Boissiere, Jacques G., said Beurtheret assor. to Compagnie Francaise Thomson-Houston- Hotchkiss-Brandt, and said Boissiere assor. to Society Thomson-Varian. Thermosyphonic heat exchange device for stabilizing the frequency of cavity resonators. 3,435,283, 3-25-69, Cl. 315-32.
Beusman, Curtis C., to Curtis Instruments Inc. Apparatus for detecting the position of an electrochemical coulometer gap. 3,462,684, 8-19-69, Cl. 324-94.
Beutelspacher, Hans, to Christ, Martin. Method for registering the refraction index gradient in sedimentation and diffusion measurements. 3,454,341, 7-8-69, Cl. 376-129.
Beuthe, Carl-Georg, to Schumacher'sche Fabrik. Method and apparatus for water purification. 3,436,341, 4-1-69, Cl. 210-7.
Beuther, Harold; and Schmid, Bruce K., to Gulf Research & Development Company. Process of hydrogen treating asphaltic and maltene containing fractions. 3,444,073, 5-13-69, Cl. 208-212.
Beutler, Hans; and Payne, Marshall C., to United States of America, Atomic Energy Commission. Method for applying low density carbon coatings. 3,472,677, 10-14-69, Cl. 117-46.
Beutler, Warren E.; and Javorich, William J., to Lamson & Sessions Co. Method and machine for making locking fasteners. 3,486,179, 12-30-69, Cl. 10-72.
Beutler, Warren E.: *See*—
Gill, Frank L.; Beutler, Warren E.; and Hanna, Edward C.,3,487,298.
Beutlich, Fred W., to Beutlick, Inc. Vaginal tampon. 3,481,335, 12-2-69, Cl. 128-270.
Beutlick, Inc.: *See*—
Beutlich, Fred W., 3,481,335.
Beutner, Heinz Paul; and O'Neill, Charles Edward, to International Nickel Company, Inc., The, mesne. Synthesis of iron enneacarbonyl. 3,445,356, 5-20-69, Cl. 204-157.1
Beuvens, Herman Joseph Hendrik; and Schuitemaker, Jan Jacob, to U.S. Philips Corporation, mesne. Incandescent lamp containing a getter for binding water vapor. 3,465,193, 9-2-69, Cl. 313-178.
Bevan, James W. Invisible drive unit for large display signs. 3,427,738, 2-18-69, Cl. 40-33.
Beven-Herron, Inc.: *See*—
Martin, John L.; MacKey, Robert J.; and Bower, Warren H., 3,431,011.
Bever, Donald L.; and Bennett, John W., to North Sails. Batten pocket for sailboat sails. 3,444,834, 5-20-69, Cl. 114-102.
Beverage-Air Company: *See*—
Reid, Philip L., 3,439,835.
Reid, Philip L.; Kallas, William E.; and Wilson, Claude A., 3,462,966.
Beveridge, Thomas R.; and Snyder, Benjamin N., to General Motors Corporation. Fluid control mechanism. 3,460,573, 8-12-69, Cl. 137-625.65
Bevers, Eugene J., to General Motors Corporation. Turbine governor. 3,439,496, 4-22-69, Cl. 60-39.16
Bevers, John Denzil: *See*—
Austin, Russell A., 3,431,560.
Bevilacqua, Edward M., to Uniroyal, Inc. Rubber blends comprising natural rubber, cis- polybutadiene and a tertiary amine. 3,451,459, 6-24-69, Cl. 152-330.
Bevilacqua, Edward M.: *See*—
Percarpio, Edward P.; and Bevilacqua, Edward M.,3,482,430.
Bevilacqua, Frank, to Combustion Engineering Inc. Nuclear power plant protective system employing logic matrices. 3,425,903, 2-4-69, Cl. 176-20.
Bevilacqua, Frank; and Meijer, Christoffel H., to Combustion Engineering, Inc. Test circuit for reactor safety control system. 3,437,556, 4-8-69, Cl. 176-19.
Bevilacqua, Frank; and West, John M., to Combustion Engineering, Inc. Containment pressure reduction system and radioactivity removal system for nuclear reactor installations. 3,459,635, 8-5-69, Cl. 176-37.
Beville, Ross H.; and Schober, Wayne E., to Broadcast Electronics, Inc. Tape cartridge deck. 3,425,609, 2-4-69, Cl. 226-90.
Beville, Ross H.; Schor, Wayne E.; and Durst, David R., to Broadcast Electronics, Inc. Common capstan mounting system. 3,432,082, 3-11-69, Cl. 226-110.
Bevis Industries, Inc.: *See*—
Land, Frederic H., 3,444,911.
Richbourg, James M., 3,430,310.
Bevis, Jeffrey M., to Calco Engineering Corporation. Radiation sensitive lamp regulator for use with a tape reader. 3,436,553, 4-1-69, Cl. 250-219.
Bevis, Jeffrey M., to Chalco Engineering Corporation. Housing and rack for readout apparatus using strip photocells. 3,441,742, 4-29-69, Cl. 250-239.
Bewley, Thomas, to Distillers Company Limited, The. Extraction of phenol. 3,467,721, 9-16-69, Cl. 260-621.
Bexford Limited: *See*—
Abbott, Terence A.; Clachan, Margaret L.; Kennedy, David Rankine; McIntyre, Ian S.; and Shephard, Basil R., 3,447,947.
Clachan, Margaret L.; McGrail, Patrick Terrence; and Shephard, Basil R., 3,446,651.
Clachan, Margaret L.; McGrail, Patrick T.; Turner, Richard G.; and Shephard, Basil R., 3,475,203.
Bexon, Howard J.: *See*—
Dobson, Richard N.; and Bexon, Howard J.,3,451,355.
Bexten, Eugen, to International Harvester Company. Control device for suspension system. 3,452,842, 7-1-69, Cl. 188-94.
Bexton, Eugen: *See*—
Walker, Dennis W.; and Bexton, Eugen,3,477,518.
Bey, Ahmet K. Electric motor with torque amplified output. 3,470,403, 9-30-69, Cl. 310-37.
Beyard, Romayne M.; and Horai, John C., to Ruberoid Co., The. Artificially colored mineral granules. 3,420,690, 1-7-69, Cl. 117-62.
Beyen, Werner J.; and Caulfield, Henry J., to Texas Instruments, Incorporated. Electro-optic controls for reflex cameras. 3,433,139, 3-18-69, Cl. 95-10.
Beyer, Gerald E., to Ford Motor Company. Air conditioner console. 3,444,700, 5-20-69, Cl. 62-244.
Beyer, Gerald E., to Ford Motor Company. Air distribution grill. 3,461,791, 8-19-69, Cl. 98-40.

Beyer, Gerald E.; and Holka, Thomas C., to Ford Motor Company. Magnetic latch. 3,468,576, 9-23-69, Cl. 292-251.5
Beyer, Gerald E.; and Holka, Thomas C., to Ford Motor Company. Retractable stone deflector for vehicle. 3,486,764, 12-30-69, Cl. 280-154.5
Beyer, Gerald E.; and Phaneuf, Charles H., to Ford Motor Company. Vehicle panel assembly. 3,456,572, 7-22-69, Cl. 98-2.
Beyer, Herbert K.: *See*—
Knotts, George F.; and Beyer, Herbert K.,3,424,438.
Beyer, John H.; and Boyles, Alfred, to United States Pipe and Foundry Company. Method for rounding pipe. 3,464,253, 9-2-69, Cl. 72-364.
Beyer, Lawrence A.: *See*—
Updegraff, Alfred V.; and Beyer, Lawrence A.,3,463,536.
Beyer, Leaman Rex. Rotary reaming and drilling bit. 3,452,831, 7-1-69, Cl. 175-374.
Beyer, Myron S., to Tee-Pak, Inc. Production of polyethylene film laminate packages. 3,462,329, 8-19-69, Cl. 156-190.
Beyer-Olsen, Knut; and Steffenssen, Otto. Buoyant body of plastic provided with a tubular passage therethrough. 3,423,776, 1-28-69, Cl. 9-8.
Beyer, Ralph E.: *See*—
May, Patrick L.; and Beyer, Ralph E.,3,446,369.
May, Patrick L.; and Beyer, Ralph E.,3,482,456.
May, Patrick L.; Vidrine, Clyde G.; and Beyer, Ralph E.,3,486,439.
Beyer, Rolf R.; and Boerio, Alvin H., to Westinghouse Electric Corporation. Electron image device. 3,431,455, 3-4-69, Cl. 315-11.
Beyer, Stanley J., to M&T Chemicals Inc., mesne. Method of joining by plating aluminum and alloys thereof. 3,455,014, 7-15-69, Cl. 29-460.
Beyers, Marvin E.: *See*—
Benner, Paul B.; Beyers, Marvin E.; and Warren, Larry G.,3,423,129.
Beyers, Marvin E.; Brown, Mackenzie P.; Carter, John W.; Junck, John A.; Lauterbach, Jerre F.; and Winters, Frank H., to Caterpillar Tractor Company. Hydraulic blade control. 3,463,190, 8-26-69, Cl. 137-625.17
Beyers, Stephen J.; Draeger, Alfred A.; and Godwin, Ernest, to Caterpillar Tractor Company. Flame cutting installation with fluid flow waste removal means. 3,486,744, 12-30-69, Cl. 266-23.
Beyersdorf, Hartwig; and Bering, Gerhard, to Lloyd Dynamowerke G.m.b.H. Rotary electric machine. 3,432,706, 3-11-69, Cl. 310-157.
Beyersdorf, Hartwig; and Bering, Gerhard, to Lloyd Dynamowerke G.m.b.H. Discoidal electrical machines. 3,435,267, 3-25-69, Cl. 310-168.
Beyersdorf, Hartwig; and Bering, Gerhard, to Lloyd Dynamowerke GmbH. Axial air gap dynamoelectric machine with cooling. 3,445,691, 5-20-69, Cl. 310-40.
Beyersdorf, Hartwig; and Bering, Gerhard, to Lloyd Dynamowerke GmbH. Electrical machines. 3,469,134, 9-23-69, Cl. 310-164.
Beyl, Jean Joseph Alfred. Safety ski binder. 3,436,089, 4-1-69, Cl. 280-11.35
Beyler, Roger E.: *See*—
Sarett, Lewis H.; Bry, Thomas S.; Fried, John; Oberster, Arthur E.; and Beyler, Roger E.,3,452,007.
Beylik, John R. Method of lining water wells and apparatus therefor. 3,420,309, 1-7-69, Cl. 166-242.
Beymer, Richard L. Water shoe. 3,479,674, 11-25-69, Cl. 9-310.
Beyner, Andre; Besson, Rene; and Chopard, Remy, to Ebauches S.A. Electronic timepiece. 3,447,311, 6-3-69, Cl. 58-23.
Beynon, John C., to Bunker-Ramo Corporation, The. Magnetometer method of manufacture. 3,445,928, 5-27-69, Cl. 29-606.
Beynon, Thomas J. Automatic self-locking swivel arrow quiver. 3,434,638, 3-25-69, Cl. 224-1.
Bez, Robert V., to Avco Manufacturing Corporation. Infrared detector system with processing optical searcher. 3,486,026, 12-23-69, Cl. 250-83.3
Bezanis, Perry S. Anti-shark safety device. 3,477,074, 11-11-69, Cl. 9-11.315
Bezanis, Perry S. Cam operated fluid valve. 3,477,693, 11-11-69, Cl. 251-251.
Bezemer, Cornelis; Meijs, Franciscus H.; van Zanten, Marinus; and Wittenwyler, Clifford V. Shell Oil Company Method for consolidating a permeable mass. 3,476,189, 11-4-69, Cl. 166-295.
Bezerie, Jean Pierre, to Societe Anonyme de Telecommunications. Means for reducing interference effects in electro- optical direction finders. 3,435,235, 3-25-69, Cl. 250-209.
Beziat, Bernard, to Societe Nouvelle des Echafaudazes Tubulaires Mills. Tubular scaffolding with locking pegs. 3,481,095, 12-2-69, Cl. 52-638.
Bezimensky, Alexandre. Hydrodynamic transmission devices. 3,431,728, 3-11-69, Cl. 60-54.
Bezlaj, Frank A.; McLaughlin, Gerald R.; Loomis, Russell M.; and Breen, Henry D., to Unarco Industries, Inc. Lading separating means. 3,486,468, 12-30-69, Cl. 105-376.
Bezman, Irving I., to Armstrong Cork Company. Polymeric products formed from diphenyltetrachlorotriphosphonitrile and a dihydroxy aromatic compound. 3,468,981, 9-23-69, Cl. 260-927.
Bezombes, Albert: *See*—
Navez, Maurice; and Bezombes, Albert,3,468,745.
Bezouska, Vlastimil; Skvor, Josef; Pajisek, Frantisek; Zavazal, Zdenek; and Polorny, Oldrich, to CKD Praha, oborovy podnik. Semi-conductor assembly with semiconductor element in area contact under pressure with conductive terminal elements. 3,435,304, 3-25-69, Cl. 317-234.
Bezu, Maurice. Stabilized aiming sight. 3,471,931, 10-14-69, Cl. 33-46.
Bezzi, Silvio: *See*—
Mortillaro, Luigi; Russo, Mario; and Bezzi, Silvio,3,425,991.
Bharati, Janki. Reactor for direct reduction of iron ore to sponge iron. 3,439,908, 4-22-69, Cl. 266-21.
Bhatt, Harshad J.; and Swann, Peter R., to United States Steel Corporation. Treating austenitic stainless steels. 3,446,333, 5-27-69, Cl. 148-12.4
Biagi, Angelo A., to La-Z-Boy Chair Company. Recessed furniture handle. 3,484,132, 12-16-69, Cl. 297-69.
Biagi, Ferando: *See*—
Kedson, Leonard P.; and Biagi, Ferando,3,452,218.
Bialczak, Edward C., to Addressograph-Multigraph Corporation. Heat-sensitive diazotype materials. 3,420,665, 1-7-69, Cl. 96-75.
Bialczak, Edward C., to Addressograph-Multigraph Corporation. Heat-sensitive diazotype materials. 3,469,984, 9-30-69, Cl. 96-75.
Bialczak, Edward C.; and Murphy, William S., to Addressograph-Multigraph Corporation. Heat sensitive diazotype materials. 3,431,109, 3-4-69, Cl. 96-49.
Biale, Giovanni, to Union Oil Company of California. Removal of oxygen impurity from carbon monoxide. 3,481,987, 12-2-69, Cl. 260-604.
Bialik, Jack J.; Masher, Dale P.; and Stevens, William W., to Friden, Inc. Cathode ray tube beam positioning system employing composite signals. 3,430,095, 2-25-69, Cl. 315-18.
Bialko, William Frank; and Boettcher, Benedict Andrew, to International Business Machines Corporation. Digital method and apparatus for measuring small inductances and capacitances. 3,480,857, 11-25-69, Cl. 324-57.
Bialo, John M.; Keiser, Edward F.; and Vogelman, Joseph H., to Clavier Corporation. Automatic distribution central. 3,424,859, 1-28-69, Cl. 178-3.
Bialy, Jerzy J.; and Dille, Kenneth L., to Texaco Inc. Jet fuel compositions containing ammonium oxidates. 3,449,096, 6-10-69, Cl. 44-71.
Biamonte, Alfred R.: *See*—
Morshauser, Fred S.; Kalish, Samuel; and Biamonte, Alfred R.,3,479,429.
Biancheria, Amilcare; and Allio, Robert J., to Westinghouse Electric Corporation. Nuclear fuel elements. 3,427,222, 2-11-69, Cl. 176-68.
Bianchetta, Donald L., to Caterpillar Tractor Company. Pressure stabilizing vent system for hydraulic circuit fluid reservoirs. 3,452,519, 7-1-69, Cl. 55-323.
Bianchetta, Donald L.; Junck, John A.; and Kokaly, Joseph, to Caterpillar Tractor Company. Hydraulic follow-up for vehicle steering systems. 3,444,948, 5-20-69, Cl. 180-79.2
Bianchi, Gian Franco: *See*—
Marucci, Luigi; and Bianchi, Gian Franco,3,448,753.
Bianchi, Giuseppe; and Nidola, Antonio, to Oronzio de Nora Impianti Elettrochimici S.A.S. Electrode coated with activated platinum group coatings. 3,428,544, 2-18-69, Cl. 204-290.
Bianchi, Maria Luisa; Franceschi, Giovanni; Marnati, Maria Pia; and Spalla, Celestino, to Societa Farmaceutici Italia. Microbiological process for the production of lycopene. 3,467,579, 9-16-69, Cl. 195-28.
Bianchini, Giuseppe. Process and apparatus for making artificial teeth. 3,426,416, 2-11-69, Cl. 29-160.6
Bianco, Joseph: *See*—
Humphreys, Victor T.; and Bianco, Joseph,3,484,180.
Biard, James Robert, to Texas Instruments, Incorporated. Unitary semiconductor high speed switching device utilizing a barrier diode. 3,463,975, 8-26-69, Cl. 317-235.
Biard, James R., to Texas Instruments, Incorporated. High frequency strip transmission line. 3,445,793, 5-20-69, Cl. 333-84.
Biard, James R., to Texas Instruments, Incorporated. Semiconductor optical radiation device. 3,456,167, 7-15-69, Cl. 317-234.
Biard, James R.; and Merryman, Jerry D., to Texas Instruments, Incorporated. Combination P-N junction light emitter and photocell having electrostatic shielding. 3,436,548, 4-1-69, Cl. 250-211.
Biarnais, Paul; Alheritiere, Louis; Gobron, Georges; Mercier, Jules; Meunier, Gaston; and Lemaistre, Rene, to Les Usines de Melle (Societe Anonyme). Continuous process for the preparation of polyesters. 3,483,151, 12-9-69, Cl. 260-22.
Biasi, Edward T.; and Skibiak, John G., to Pennsalt Chemicals Corporation. Process for making bakers' cheese. 3,431,115, 3-4-69, Cl. 99-116.
Biays, W. Tuckerman: *See*—
Westhaver, Lawrence A., 3,430,053.
Bibb, William M.: *See*—
Achelis, Frederic; Brown, Roy J.; Sherman, Roger M.; and Bibb, William M.,3,461,750.

Bibeault, Lionel. Portable lifting and/or spring winding device. 3,452,964, 71-69, Cl. 254-168.
Biber, Conrad H., to Polaroid Corporation. Electronic flash apparatus having variable output. 3,438,766, 4-15-69, Cl. 95-11.
Biber, Conrad H., to Polaroid Corporation. Exposure control system. 3,442,198, 5-6-69, Cl. 95-64.
Bible, Robert E.; McIntyre, Robert L.; Scott, William F.; and Trostrud, Arville T., Jr., to Singer-General Precision, Inc. Input-output auxiliary computer system. 3,443,076, 5-6-69, Cl. 235-167.
Bibost, Pierre Andre Joseph, to Novacel S.A. Device for the continuous manufacture of artificial sponges, especially of regenerated cellulose. 3,486,191, 12-30-69, Cl. 18-5.
Bice, James W.: *See—*
Nielsen, Howard A., Jr.; Bice, James W.; and Smith, Chester A., Jr.,3,473,386.
Bichard, John A., to Esso Research and Engineering Company. Phosphate additives in a tar sand water separation process. 3,422,000, 1-14-69, Cl. 208-11.
Bichet, Georges; Cruiziat, Paul; Damay, Jean; and Frechet, Pierre Joseph, to Rhone-Poulenc S.A. Removal of bubbles from adipic acid-nitrogen vapor. 3,456,428, 7-22-69, Cl. 55-68.
Bichsel, Heinz F., to Swiss Aluminium Ltd. Method of aluminum-plastic laminate forming. 3,444,022, 5-13-69, Cl. 29-528.
Bick, David E., to Dowty Technical Developments Limited. Fluid actuated vibrator devices. 3,425,498, 2-4-69, Cl. 173-52.
Bick, Klaus; and Tinnes, Bernhard J., to Paderwerk Gebr. Benteler. Continuous casting appartus with tiltable intermediate ladle. 3,433,288, 3-18-69, Cl. 164-281.
Bick, Philip C.: *See—*
Hoiberg, Arnold J.; Orsulak, John P.; and Bick, Philip C.,3,443,981.
Bickel, August H.; and Sotsky, George R., to United States of America, Navy. Testing device for missile guidance section. 3,469,926, 9-30-69, Cl. 356-247.
Bickel, Hans: *See—*
Gaeumann, Ernst; Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst,3,471,476.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Schenker, Karl; and Urech, Jakob, to Ciba Corporation. 7-Amino-cephalosporanic acid derivatives. 3,483,197, 12-9-69, Cl. 260-243.
Urech, Jakob; Fechtig, Bruno; Bosshardt, Rolf; Bickel, Hans; Schenker, Karl; and Wilhelm, Max,3,484,437.
Vischer, Ernst; Fechtig, Bruno; and Bickel, Hans,3,454,564.
Bickel, Paul E.: *See—*
Burney, Harold W.; Bickel, Paul E.; and Koenecke, William J.,3,421,618.
Bickenheuser, Frank J., Jr. Bed pan device. 3,484,874, 12-23-69, Cl. 4-112.
Bickerstaff, William H.: *See—*
Grant, Louis A.; and Bickerstaff, William H.,3,471,888.
Bickford, Allan M., to Foregger Company, Inc., The. Anesthetic vaporizer. 3,420,232, 1-7-69, Cl. 128-188.
Bickford, Dudley V.: *See—*
Kelly, William J.; and Bickford, Dudley V.,3,427,865.
Bickford, John H.; and Blinow, Igor, to Veeder Industries Inc. Control system for fluid delivery mechanism. 3,459,330, 8-5-69, Cl. 222-2.
Bickford, John H.; and Blinow, Igor, to Veeder Industries Inc. Fluid dispensing apparatus with cost and volume registers. 3,484,021, 12-16-69, Cl. 222-26.
Bickford, John H.; Haberstroh, Albert; and Donovan, Lawrence J., to Veeder Industries Inc. Self-service fluid dispensing system. 3,469,741, 9-30-69, Cl. 222-2.
Bickford, William J.; and Rowland, Howard J., to Raytheon Company. Predetection signal processing system. 3,471,788, 10-7-69, Cl. 325-369.
Bickham, Euland M.; and Rosenfeld, Samuel, to Instrument Systems Corporation. Sealer for packaging foodstuffs and the like. 3,475,880, 11-4-69, Cl. 53-141.
Bicking, John B.; and Cragoe, Edward J., Jr., to Merck & Co., Inc.[(3-Oxo-1-alkenyl) aryloxy]alkanoic acids and derivatives thereof. 3,458,565, 7-29-69, Cl. 260-520.
Bicking, John B.: *See—*
Cragoe, Edward J., Jr.; and Bicking, John B.,3,465,022.
Bickley Furnaces Incorporated: *See—*
Remmey, George Bickley, 3,464,682.
Bickley, Thomas F., to LTV Aerospace Corporation. Speed-change mechanism. 3,439,562, 4-22-69, Cl. 74-804.
Bicknell, Robyn D., to Dow Chemical Company, The. Sampler for viscous material. 3,459,048, 8-5-69, Cl. 73-425.4
Bickner, Clarence T. Apparatus for making ornamental bows. 3,451,599, 6-24-69, Cl. 223-46.
Bickoff, Charles: *See—*
Belson, Ross A.; and Bickoff, Charles,3,465,670.
Bicor Products, Inc.: *See—*
Nelson, Bertel S., 3,454,030.
Bidard, Rene, to Compagnie Electro-Mecanique Societe Anonyme. Magnetohydrodynamic generator. 3,432,694, 3-11-69, Cl. 310-11.
Bidard, Rene, to Cie Electro-Mecanique. Process and apparatus for transforming calorific energy into electrical energy along a thermodynamic cycle comprising at least one magnetohydrodynamic. 3,450,904, 6-17-69, Cl. 310-11.
Biddick, Royce E., to Union Oil Company of California, mesne. Fuel cell with gravity supply fuel and electrolyte means. 3,475,222, 10-28-69, Cl. 136-86.
Biddison, John M., to Globe Tool and Engineering Company, The. Spray coating apparatus. 3,482,545, 12-9-69, Cl. 118-301.
Biddle, Jerry Allen, Sr. Method of preparing pharmaceutical tablets. 3,438,797, 4-15-69, Cl. 117-12.
Biddulph, Richard Hampton, to United States Borax & Chemical Corporation. Aluminum master alloys. 3,464,816, 9-2-69, Cl. 75-135.
Biddy, Charles V. Apparatus for determining the concentration of a substance in a solution. 3,428,402, 2-18-69, Cl. 356-208.
Biddy, Oscar D., Jr.: *See—*
Hampikian, Aram K.; and Biddy, Oscar D., Jr.,3,460,003.
Bidelman, Bruce B.; Maurer, Max L.; Lawler, Jack; and Millard, George R., to Ronan & Kunzl, Inc. Basketball goal with backboard above and separately supported from the goal hoop. 3,462,143, 8-19-69, Cl. 273-1.5
Bidese, Werner, to Albiswerk Zurich A.G. Circuit arrangement for suppressing the intensity of an indicator tube. 3,433,997, 3-18-69, Cl. 315-22.
Bidlack, Jerald D., to Moog Inc. Positive centering servovalve having movable spring backup. 3,433,266, 3-18-69, Cl. 137-625.61
Bidlack, Jerald D.; and Garnjost, Kenneth D., to Moog Inc. Zero backlash fluid motor. 3,447,422, 6-3-69, Cl. 91-89.
Bidstrup, Peter G.: *See—*
Gillard, Frederick B., 3,464,111.
Bidwell, Raymond E., to Phillips Petroleum Company. Container cover. 3,428,236, 2-18-69, Cl. 229-43.
Bidwell, Robert E.; and Mishkin, Sidney. Visual aid for golf. 3,478,452, 11-18-69, Cl. 40-68.
Bidwell, Robert E.: *See—*
Mishkin, Sidney; and Bidwell, Robert E.,3,422,817.
Mishkin, Sidney; and Bidwell, Robert E.,3,452,755.
Mishkin, Sidney; and Bidwell, Robert E.,3,473,528.
Biebel, William A., to Van Straaten Chemical Company, mesne. Vibratory finishing method. 3,436,873, 4-8-69, Cl. 51-316.
Bieber, Clarence George; and Galka, John J., to International Nickel Company, Inc., The. Cast nickel-base alloy. 3,459,545, 8-5-69, Cl. 75-171.
Bieber, Clarence G.; and Mihalisin, John R., to International Nickel Company, Inc., The. Ultra hard cobalt-molybdenum-iron alloys. 3,485,620, 12-23-69, Cl. 75-124.
Bieber, Herman: *See—*
Longwell, John P.; Bieber, Herman; and Begley, John W.,3,429,265.
Bieber, William J., to Ametek, Inc. Self-erecting spiral tube device. 3,448,939, 6-10-69, Cl. 242-54.
Bieber, William J. Shifting mechanism for transmissions. 3,456,522, 7-22-69, Cl. 74-475.
Biechler, Francois-Joseph: *See—*
Bondouy, Andre; and Biechler, Francois-Joseph,3,424,571.
Bieder, Gert Gottfried; Ziesak, Herbert Walter; and Kuhn, Kurt Gerhard, to Schmalbach, J. A., AG. Closure for containers and a method of making it. 3,460,709, 8-12-69, Cl. 220-47.
Biedermann, Friedrich; and Bestenreiner, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Automatic exposure control circuit. 3,434,403, 3-25-69, Cl. 95-10.
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with an electromagnetically operable lens diaphragm. 3,483,807, 12-16-69, Cl. 95-10.
Biedermann, Friedrich: *See—*
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin,3,426,661.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl,3,465,656.
Biedermann, Robert, to Geigy Chemical Corporation. Fatty acid biguanides and their use for impregnating leather. 3,460,983, 8-12-69, Cl. 117-142.
Biedermann, Siegfried, to Uninorm Anstalt. Leakage current protection switch with excess current release. 3,427,505, 2-11-69, Cl. 317-18.
Biedermann, Walter: *See—*
Steiner, Eginhard; and Biedermann, Walter,3,459,727.
Biederstedt, Ulrich: *See—*
Strassner, Herbert; and Biederstedt, Ulrich,3,422,753.
Bieganski, Zdzislaw. Tools for stripping covered wire. 3,422,708, 1-21-69, Cl. 81-9.5
Biegel, Donald R.; and Willis, John W., to Tab Products Co. Data scanning, indicating and control apparatus. 3,436,526, 4-1-69, Cl. 235-61.6

Biegler, Hanns; Kallrath, Gottfried; and Klein, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of hydrophobic particulate materials from water glass. 3,484,371, 12-16-69, Cl. 210-40.
Biegler, Hanns; Neugebauer, Walter; and Kempers, Herbert, to Deutsche Gold- und Silber-Scheideanstalt Vormals Roessler. Apparatus for the production of finely divided amorphous silica. 3,423,184, 1-21-69, Cl. 23-277.
Biehl, Arthur T.; and Mainhardt, Robert, to MB Associates. Miniature rocket nozzle. 3,437,289, 4-8-69, Cl. 244-3.23
Biehl, Richard E.: *See*—
Bentele, Max; Biehl, Richard E.; and Loprete, Joseph F.,3,456,445.
Biehl, Richard E., to Curtiss-Wright Corporation. Reaction engine with intermittent thrust and direction control. 3,460,349, 8-12-69, Cl. 60-228.
Biek, Paul A.; and Hoza, Martin D., to Murphy, G. W., Industries, Inc. Rotor vane. 3,453,936, 7-8-69, Cl. 91-121.
Biekert, Ernst: *See*—
Kallischnigg, Rolf; and Biekert, Ernst,3,440,278.
Biel, John H., to Aldrich Chemical Company, Inc.4'-Dimethylamino-4-[4-hydroxy-4-phenyl piperidino] butyrophenones and 4-[4-phenyl-4-hydroxy-piperidino] -1,1-ethylenedioxy-1-(4-dimethylaminophenyl) butanes. 3,476,762, 11-4-69, Cl. 260-294.7
Biel, John H.; and Graeve, Rolf E., to Aldrich Chemical Company, Inc. Alpha-4-dimethylamino and pyrrolidino-1,2 diphenyl-3-methyl-2-butyl cyclopropane carboxylates. 3,426,037, 2-4-69, Cl. 260-326.3
Biel, John H.; and Hopps, Harvey B., to Aldrich Chemical Company, Inc.N-(*p*-Phenoxybenzoyl-lower alkyl)-4-phenyl- tetrahydropyridyl derivatives; the corresponding alcohol, carbamate and lower alkylene derivatives. 3,426,036, 2-4-69, Cl. 260-297.
Biel, John H.; and Hopps, Harvey B., to Aldrich Chemical Company, Inc. 2-Substituted-3-quinuclidinones. 3,462,442, 8-19-69, Cl. 260-294.
Biel, John H.; and Judd, Claude I., to Colgate-Palmolive Company. Aminoalkyliminodibenzyl compounds. 3,454,554, 7-8-69, Cl. 260-239.
Biel, John H.; and Judd, Claude I., to Colgate-Palmolive Company. Treatment of depression with desmethylimipramine. 3,454,698, 7-8-69, Cl. 424-244.
Biel, John H.; Li, Jorge P.; and Stein, Robert George, to Aldrich Chemical Company, Inc.1-[3-(4-Fluorobenzoyl)propyl]-and 1-[1,1- ethylenedioxy-1-(4-fluorophenyl)-4-butyl]-4- piperidyl carbamates. 3,484,446, 12-16-69, Cl. 260-294.3
Biel, John H.; and Warawa, Edward J., to Aldrich Chemical Company, Inc.N-cyclopropyl-N'-furfuryl-N'- methyl ethylene diamines. 3,471,522, 10-7-69, Cl. 260-347.7
Biel, John H.: *See*—
Judd, Claude I.; Drukker, Alexander E.; and Biel, John H.,3,435,073.
Bielak, Sigmund H.: *See*—
Jepson, Ivar; Dokos, Sophocles J.; and Bielak, Sigmund H.,3,477,263.
Bielec, Mateusz Kazimierz, to Glacier Metal Company Limited, The. Thrust bearing assemblies. 3,454,312, 7-8-69, Cl. 308-160.
Bielecki, Edwin J.; and Albright, Robert A., to Kawecki Chemical Company. Purification of columbium and tantalum pentoxides. 3,437,430, 4-8-69, Cl. 23-21.
Bielefeldt, Ernst-August, to Hamburger Flugzeugbau GmbH. Aircraft provided with means for the compensation of the shift of the aerodynamic center. 3,456,905, 7-22-69, Cl. 244-43.
Bielefeldt, Ernst-August, to Hamburger Flugzeugbau GmbH. Supersonic aircraft. 3,478,989, 11-18-69, Cl. 244-43.
Bieler, Barric H.; and Madison, Robert P., to Dow Chemical Company, The. Continuous solid particle shape classifier. 3,464,550, 9-2-69, Cl. 209-112.
Bielfeldt, Friedrich Bernd, to Eckert und Ziegler G.m.b.H. Injection molding machine. 3,464,091, 9-2-69, Cl. 18-30.
Bielinski, Leonard J. Apparatus for measuring motility of body organs. 3,437,088, 4-8-69, Cl. 128-2.
Bielskis, Edward C.: *See*—
Leo, Albert J.; and Bielskis, Edward C.,3,430,812.
Bielss, Eldon W.: *See*—
Cosgrove, Donald G.; Erwin, Le Roy E.; and Bielss, Eldon W.,3,469,183.
Bielstein, Walter J., to Esso Production Research Company. Floating drilling platform. 3,461,828, 8-19-69, Cl. 114-0.5
Bielstein, Walter J.; and Harrison, Otto R., to Esso Production Research Company. Well control. 3,427,651, 2-11-69, Cl. 166-44.
Bien, Alfred A., to Chrysler Corporation. Fastener for connecting apertured structure to another structure. 3,449,799, 6-17-69, Cl. 24-73.
Bien, Alfred A., to Chrysler Corporation. Locking fastener. 3,474,846, 10-28-69, Cl. 151-27.
Bien, Elaine M. Portable sunbathing cot. 3,464,069, 9-2-69, Cl. 5-110.
Bienek, Gunter, to Bissell Inc. Sweeper for carpeted and smooth floors. 3,457,575, 7-29-69, Cl. 15-41.
Bienert, Herbert F. Process for producing a foamed polystyrene product having a hard skin. 3,476,841, 11-4-69, Cl. 264-45.
Bienert, Walter B., to Martin-Marietta Corporation. Heat pipes for non-wetting fluids. 3,435,889, 4-1-69, Cl. 165-105.
Bieniek, Thomas; and Maselli, James M., to Grace, W. R., & Co. Process for preparing high molecular weight linear phosphonitrilic polymers. 3,443,913, 5-13-69, Cl. 23-357.
Biensan, Michel, to Societe Nationale des Petroles d'Aquitaine. Process for purification of dimethyl sulfide. 3,474,005, 10-21-69, Cl. 203-96.
Bienwald, Wolfgang F.; and Bowie, William J., to Leviton Manufacturing Co., Inc. Rocker type electric switch with pilot light. 3,435,169, 3-25-69, Cl. 200-167.
Bienwald, Wolfgang F.; and Tum Suden, Herbert W., Jr., to Leviton Manufacturing Co., Inc. Fuse holder for S-type fuses. 3,444,498, 5-13-69, Cl. 337-226.
Bier, Albert, to Moeller & Neumann G.m.b.H. Rapid changeover arrangement for a group of rolling mill stands in continuous rolling mill lines. 3,475,939, 11-4-69, Cl. 72-239.
Bier, Gerhard: *See*—
Buning, Robert; Konermann, Hans-Ewald; Diessel, Karl-Heinz; and Bier, Gerhard,3,459,692.
Hartel, Heinz; and Bier, Gerhard,3,449,413.
Hartel, Heinz; and Bier, Gerhard,3,459,724.
Hartel, Heinz; Nebel, Ilse Ursula; and Bier, Gerhard,3,427,286.
Bierbower, John B.: *See*—
Lucchino, Joseph A.; and Bierbower, John B.,3,480,248.
Bierenbaum, Harvey S.; Isaacson, Robert B.; and Lantos, Peter R., to Celanese Corporation. Breathable medical dressing. 3,426,754, 2-11-69, Cl. 128-156.
Bieri, Hans: *See*—
Bieri, Rudolf; and Bieri, Hans,3,455,324.
Bieri, Leonard, Jr.: *See*—
Offutt, Elmer Bradley; and Bieri, Leonard, Jr.,3,472,424.
Bieri, Rudolf; and Bieri, Hans, to Susten-Anstalt. Apparatus for preventing return-flow of liquid from a receptacle supplied under pressure by a supply network back into the latter. 3,455,324, 7-15-69, Cl. 137-216.
Bierig, Robert W., to Raytheon Company. Solid state delay line for propagation of microwave frequency energy in spin wave mode. 3,444,484, 5-13-69, Cl. 333-30.
Bierl, Richard; and Zacharias, Ernst, to Matth. Hohner AG. Oscillating generator particularly designed for polyphonic musical instruments. 3,423,514, 1-21-69, Cl. 84-1.1
Bierlich, Knud Georg, 30% to Goodrich, Hobert R. Manufacture of Portland cement products. 3,468,993, 9-23-69, Cl. 264-82.
Bierman, Howard R. Pressure infusion device for ambulatory patients with pressure control means. 3,468,308, 9-23-69, Cl. 128-214.
Bierman, Howard R. Infusion device for ambulatory patients with flow control means. 3,469,578, 9-30-69, Cl. 128-214.
Biermann, Arnold E.: *See*—
Breisch, John H.; and Biermann, Arnold E.,3,463,279.
Biermann, David, to Hartzell Propeller, Inc. Unitary fixed pitch aircraft propeller. 3,461,966, 8-19-69, Cl. 170-159.
Biermann, David. Helicopter rotor r.p.m. control system. 3,485,222, 12-23-69, Cl. 123-98.
Biermann, Hans-Georg, to Gesipa Gesellschaft fur Internationale Patentverwertung m.b.H. Threaded blind rivet. 3,451,303, 6-24-69, Cl. 85-77.
Biermann, Kurt, to Durkopp Aktiengesellschaft. Knot-tying mechanism for sewing machine. 3,478,708, 11-18-69, Cl. 112-160.
Biermann, Wilhelm: *See*—
Kunert, Heinz; and Biermann, Wilhelm,3,427,770.
Biermann, William A.; to Controls Company of America. Oil control valve strainer arrangement. 3,443,693, 5-13-69, Cl. 210-123.
Biernson, George A., to Sylvania Electric Products, Inc. Optical device. 3,422,273, 1-14-69, Cl. 250-220.
Biernson, George A.; and Kinsley, David J., to Sylvania Electric Products, Inc. Television camera dynamic compensation apparatus for controlling the effect of light variations within a scene. 3,465,094, 9-2-69, Cl. 178-5.4
Bies, Frank R., to Bell Telephone Laboratories, Incorporated. Capacitively coupled multisection crystal filter. 3,456,214, 7-15-69, Cl. 333-72.
Bies, Sylvester W.: *See*—
Devanney, Raymond H.; and Bies, Sylvester W.,3,423,750.
Bies, Sylvester W.; and Ames, Allan R., to Veeder Industries Inc. Modular counter. 3,452,927, 7-1-69, Cl. 235-117.
Biesecker, Joseph M. Exhaust system for motor bikes. 3,453,824, 7-8-69, Cl. 60-32.
Biet, Jean-Pierre; and Benoit, Jacques L., to Compagnie Generale d'Electricite. Photo-diode and transistor semiconductor radiation detector with the photo-diode biased slightly below its breakdown voltage. 3,452,206, 6-24-69, Cl. 250-211.
Big Boy Products, Inc.: *See*—
Elliott, Reginald S.; and Dalton, John Broocks, 3,473,826.
Big Drum, Inc.: *See*—
Wise, Robert T.; and Erickson, Leonard A., 3,487,443.
Big Dutchman International, A.G.: *See*—
Haegens, Anthonius J. T., 3,463,391.
Big Stone Canning Company: *See*—
Kraus, Edwin C., 3,446,636.

Big Three Industrial Gas & Equipment Co., Inc.: *See*—
Hamilton, Billy E., 3,470,957.

Bigelow, John E., to General Electric Company. Signalling system. 3,466,651, 9-9-69, Cl. 343-13.

Bigelow, John Howard, to Du Pont de Nemours, E. I., and Company. Access time in light-developable direct-writing silver halide emulsions through use of a reduction sensitizers. 3,449,125, 6-10-69, Cl. 96-108.

Biggar, Gordon McLaren: *See*—
Edwards, Robert Harry; and Biggar, Gordon McLaren,3,432,259.

Bigge Drayage Co.: *See*—
Whitmire, William A.; and Webber, Jack S., 3,430,987.

Bigge Drayage Company: *See*—
Smith, Edward M., 3,480,355.

Biggerstaff, John A.; and Nutt, Ronald, to United States of America, Atomic Energy Commission. Peak current meter. 3,464,013, 8-26-69, Cl. 324-120.

Biggle, Laurence C., to International Telephone and Telegraph Corporation. Heating device. 3,472,458, 10-14-69, Cl. 239-585.

Biggle, Laurence C., to International Telephone and Telegraph Corporation. Control system for double-burner single- cavity oven. 3,476,315, 11-4-69, Cl. 236-15.

Bigglestone, Edwin J.: *See*—
Ott, Walter; and Bigglestone, Edwin J.,3,449,882.

Biggon, Robert Muir; and Pierpoint, Edward Keith, to Imperial Chemical Industries Limited. Organosilicon compositions. 3,445,418, 5-20-69, Cl. 260-33.6

Biggs, James B., to Hoffman Electronics Corporation. Pulse pair measurement. 3,473,130, 10-14-69, Cl. 328-109.

Bigi, Mario. Road barrier with pivotable span joints. 3,447,786, 6-3-69, Cl. 256-13.1

Bigler, Sam, to M & B Headwear Co., Inc. Waterproof hat construction. 3,479,668, 11-25-69, Cl. 2-175.

Bigo, Firmin: *See*—
Caron, Jean; and Bigo, Firmin,3,449,620.

Bigot, Bernard, 1/2 to Produits Chimiques Pechiney-Saint-Gobain, and 1/2 to UCB (Union Chimique-Chemische Bedrijven) S.A. Novel mixed alkali metal polyphosphates and methods of preparing them. 3,455,649, 7-15-69, Cl. 23-107.

Bigot, Johan A.: *See*—
Garritsen, Johan W.; and Bigot, Johan A.,3,437,655.
Garritsen, Johan W.; and Bigot, Johan A.,3,481,919.

Bigsby Accessories, Inc.: *See*—
McCarty, Theodore M., 3,440,921.
McCarty, Theodore M.; and Huis, John, 3,457,821.

Bihler, Leonard A.: *See*—
Naslund, Kenneth C.; and Bihler, Leonard A.,3,442,058.

Bihlmaier, Oskar, to Voigtlander A.G. Camera for daylight and flash exposure. 3,443,498, 5-13-69, Cl. 95-11.

Bihlmaier, Oskar; Greger, Paul; and Doring, Erwin, to Voigtlander A.G. Camera for exposing different types of film packages. 3,474,714, 10-28-69, Cl. 95-31.

Bihmaier, Oskar, to Voigtlander A.G. Camera having structure for making flash exposures. 3,443,497, 5-13-69, Cl. 95-11.

Bijl, Aart; and Nihof, Hendrikus J., to Shell Oil Company. Controller with widely variable reset time. 3,454,886, 7-8-69, Cl. 330-9.

Bijl, Dingeman: *See*—
Nederlof, Bastiaan Klaas; Bijl, Dingeman; and van der Meij, Jan Johannes,3,434,078.

Bijvoet, Leonardus Arnoldus Nicolaas, to Inland Steel Company. Method and apparatus for making a side wall for a prismatic container. 3,459,028, 8-5-69, Cl. 72-393.

Bilancia, Raymond A., to Coach and Car Equipment Corporation. Enclosed back rest coupling for walk-over seat. 3,479,082, 11-18-69, Cl. 297-103.

Biland, Hans Rudolf: *See*—
Huber, Helmut; Schaefer, Paul; and Biland, Hans Rudolf,3,423,360.

Bilbao, Marcia Kepler: *See*—
Cook, William A.; van Westrum, Anthony Colby S.; Dotter, Charles T.; and Bilbao, Marcia Kepler,3,481,323.

Bilbe, William George, to Istag A.G. Suhr/AG. Sintering method. 3,444,021, 5-13-69, Cl. 156-242.

Bilbro, James E., to Thermon Mfg., Co. Electrical resistance heating apparatus. 3,456,096, 7-15-69, Cl. 219-501.

Bilbrough, Jack, to Rank Organisation Limited, The. Heat treatment of sheet and web materials. 3,470,343, 9-30-69, Cl. 219-10.61

Bildat, Benno: *See*—
Schmidt, Karl Heinz; and Bildat, Benno,3,446,097.

Bildsoe, Jorgen S.: *See*—
Lauzon, James Nelson; Sandner, Raymond J.; and Bildsoe, Jorgen S.,3,458,026.

Bildsoe, Jorgen S.; Krammer, Robert; and Muirhead, Raymond A., to Taylor & Gaskin, Inc. Sub-floor conveyor system. 3,438,338, 4-15-69, Cl. 104-172.

Bildstein, Hubert; Knotik, Karl; and Stolba, Gerhard, to Osterreichische Studiengesellschaft fur Atomenergie Ges. m.b.H. Method for the production of spherical particles. 3,468,985, 9-23-69, Cl. 264-0.5

Bildstein, Hubert; Stolba, Gerhard; and Knotik, Karl, to Osterreichische Studiengesellschaft fur Atomenergie Ges. m.b.H. Method for the extraction of materials embedded in a graphite body. 3,424,564, 1-28-69, Cl. 23-324.

Bildusas, Leonas L., to Minnesota Mining and Manufacturing Company. Protective film adhesively secured to heat- sensitive paper base. 3,471,357, 10-7-69, Cl. 161-165.

Bildusas, Vytautas E., to Swift & Company. Cellulosic metallic laminates. 3,475,268, 10-28-69, Cl. 161-214.

Bilek, Frank Thomas, to Stewart-Warner Corporation. Paper cutter for facsimile machine. 3,465,632, 9-9-69, Cl. 83-555.

Bilek, Jan: *See*—
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri,3,429,344.
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri,3,433,271.

Biles, James R.; Brennan, Wendell E.; Alexander, Stephen H.; and Hardy, Edgar E., to Monsanto Company. Bitumen-impregnated-foam material. 3,470,016, 9-30-69, Cl. 117-76.

Biles, John E., Jr.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,583.

Bilger, Donald E.: *See*—
Rohrer, Raymond E., 3,470,474.

Bilichniansky, Theodore; Isreeli, Jack; and Smythe, William J., to Technicon Corporation. Peristaltic pump with regular air bubble introduction. 3,425,357, 2-4-69, Cl. 103-149.

Bilinski, Victor. Space heater. 3,450,346, 6-17-69, Cl. 237-70.

Bilisoly, Julius Philip; and Zachry, James Bryan, to Esso Research and Engineering Company. Removing nitrogen from hydrocarbon oils. 3,434,964, 3-25-69, Cl. 208-254.

Bill, Arthur: *See*—
Goss, Arthur G.; and Bill, Arthur,3,473,853.

Bill, Arthur, to Rolls-Royce Limited. Fluid seal device. 3,463,498, 8-26-69, Cl. 277-138.

Bill, Walter E.; and Payet, George L., to PPG Industries, Inc. Process of shrink-proofing goods containing keratinous fibers. 3,476,502, 11-4-69, Cl. 8-127.6

Bill, Walter Heinrich: *See*—
Becker-Boost, Erich Heinz; Gross, Otto; and Bill, Walter Heinrich,3,427,253.

Billawala, Shahbuddin A.: *See*—
Stansell, Alpheus F.; and Billawala, Shahbuddin A.,3,447,847.

Bille, Heinz: *See*—
Wilhelm, Hans; Bille, Heinz; Hann, Ernst Wilhelm; and Dachs, Karl,3,450,561.

Biller, Efim, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Process for alkylation of phenol. 3,439,048, 4-15-69, Cl. 260-621.

Biller, Hans. Endless coil spring operated racing game. 3,473,805, 10-21-69, Cl. 273-86.

Biller, Theodor, to Thyssen Rohrenwerke Aktiengesellschaft. Track for wheel and track laying vehicles. 3,466,986, 9-16-69, Cl. 94-13.

Biller, William F.: *See*—
Taylor, William F.; Sinfelt, John H.; and Biller, William F.,3,443,886.

Billerbeck, Fred W.; Hing, Francisco S.; and Purvis, George A., to Gerber Products Company. Nutritious infant cereal. 3,429,711, 2-25-69, Cl. 99-83.

Billet, James M.; Orinik, Michael T.; and Thompson, James O., to International Business Machines Corporation. Pressure sensitive record material. 3,450,553, 6-17-69, Cl. 117-36.2

Billetdeaux, Adrian C.: *See*—
Mausteller, John W.; Billetdeaux, Adrian C.; and Freilino, Ray S.,3,471,698.

Billeter, Henry R., to Sloan Valve Company. Braking arrangement for railway hopper cars. 3,435,923, 4-1-69, Cl. 188-197.

Billeter, Henry R., to Sloan Valve Company. Turning fixture for generating polygonal shapes. 3,442,165, 5-6-69, Cl. 82-18.

Billeter, Henry R., to Sloan Valve Company. Double acing slack adjusters. 3,454,140, 7-8-69, Cl. 188-202.

Billett, Ronald J.: *See*—
Berticevich, Edward N.; and Billett, Ronald J.,3,473,659.
Roberts, Thomas E., Jr.; and Billett, Ronald J.,3,452,789.

Billhardt, Roger A., to Bell Telephone Laboratories, Incorporated. Magnetic reed switching matrix. 3,448,435, 6-3-69, Cl. 340-166.

Billheimer, John E., to Celanese Corporation. Cellulose ester sealing means for dry spinning spinneret. 3,428,724, 2-18-69, Cl. 264-207.

Billhymer, Robert Franklin: *See*—
Breed, Arie Eugene; and Billhymer, Robert Franklin,3,484,803.

Billiard Controls, Inc.: *See*—
Margolis, Edward, 3,448,459.

Billin, Arthur Gilbert, to Sybron Corporation. Foot controller for dental drills. 3,471,928, 10-14-69, Cl. 32-22.

Billing, Heinz; Rudiger, Albrecht; and Gundlach, Karl-Heinz. Apparatus for information storage with thin magnetic films. 3,432,817, 3-11-69, Cl. 340-174.

Billings, Gale K., to Sinclair Research, Inc. . 3,428,431, 2-18-69, Cl. 23-230.

Billings, James P., to Emery, A. H., Company. Weighing system including optically actuated adjustable set point control circuit hav-

ing switch for selecting reset mode. 3,431,422, 3-4-69, Cl. 250-214.
Billings, Peter Robert: *See—*
Ayerst, Ronald Percy; and Billings, Peter Robert,3,472,371.
Billings, Philip: *See—*
Bouchard, Richard; Billings, Philip; and Horn, Richard A.,3,423,626.
Billings, Raymond T. Apparatus for coating elongate work. 3,433,698, 3-18-69, Cl. 156-540.
Billings, Roy O. Hydraulic cylinders having a quick exhaust. 3,447,424, 6-3-69, Cl. 91-422.
Billings, Russell A., to International Business Machines Corporation. Card feeding mechanism. 3,486,749, 12-30-69, Cl. 271-29.
Billings, William W., to Westinghouse Electric Corporation. Miniature overvoltage protection circuit having separate voltage sensing and time delay circuits. 3,480,834, 11-25-69, Cl. 317-31.
Billings, William W.; and Calfee, Wendell, to Westinghouse Electric Corporation. Automatic paralleling system. 3,444,387, 5-13-69, Cl. 307-87.
Billingsley, Earl D.: *See—*
Billingsley, Ivan L.; and Billingsley, Earl D.,3,475,066.
Billingsley, Ivan L.; and Billingsley, Earl D. Speaker cabinet. 3,475,066, 10-28-69, Cl. 312-7.
Billman- Regulator AB: *See—*
Olofsson, Erik Herbert; and Arnrup, Borje Sixten, 3,475,593.
Billmeyer, John, trustee of the estate of Western Monolithics Inc.: *See—*
Southern, William C.; Wagner, Herbert M.; and Scholz, Raymond J., 3,466,000.
Billon, Guy M.; and Daveau, Bernard J., to Compagnie Francaise Thomson-Houston-Hotchkiss- Brandt. Polarization rotator for microwaves. 3,435,380, 3-25-69, Cl. 333-21.
Billot De Goldlin , Alain: *See—*
Roche, Henri; and Billot De Goldlin , Alain,3,464,923.
Bills, Daniel G.; Denison, Dean R.; and Warren, Keith A., to Granville-Phillips Company. Sublimation device. 3,427,432, 2-11-69, Cl. 219-275.
Bills, Henry: *See—*
Bonallack, Richard F.; and Bills, Henry,3,481,642.
Bills, Kenneth Gordon: *See—*
Crawshaw, James Robert; and Bills, Kenneth Gordon,3,445,693.
Billson, John A.: *See—*
Miklos, Zoltan W.; and Billson, John A.,3,454,053.
Billups, Wilbur E.: *See—*
Kurtz, Abraham N.; Billups, Wilbur E.; and Farmer, Melvin L.,3,487,111.
Billy, Jean-Marc; and Seguin, Judith Ann, to Ogilvie Flour Mills Company, Limited, The. Dry heat process for the preparation of cationic starch ethers. 3,448,101, 6-3-69, Cl. 260-233.3
Bilo, William J.; and Steinbach, John F., to Westinghouse Electric Corporation. Bilayer protective coating for exposed P-N junction surfaces. 3,447,975, 6-3-69, Cl. 148-33.3
Bilocq, Georges A., to Forano Limited. Dustproof bearing for idler roller. 3,420,590, 1-7-69, Cl. 308-187.
Bilocq, Georges A., to Forano Limited. System for mechanically feeding wood logs into shafts. 3,443,676, 5-13-69, Cl. 198-24.
Bilotti, Alberto, to Sprague Electric Company. Distributed variable attenuator network. 3,471,755, 10-7-69, Cl. 317-235.
Bilous, Orest: *See—*
Pecoraro, Raymond P.; and Bilous, Orest,3,445,734.
Bilous, Orest; Castrucci, Paul P.; and Clark, Tommy D., to International Business Machines, Corporation. High speed switching transistor and fabrication method therefor. 3,421,057, 1-7-69, Cl. 317-235.
Bilous, Orest; Meulemans, Darrell R.; Pecoraro, Raymond P.; and Selby, Michael C., to International Business Machines Corporation. Semiconductor device having compensated barrier zones between N-P junctions. 3,473,093, 10-14-69, Cl. 317-235.
Bilsborough, Roy; and O'Tallamhain, Colm, to Nuclear Power Plant Company Limited, The, and A.E.I.-John Thompson Nuclear Energy Company Limited, trading in partnership together u/t/n of The Nuclear Power Group. Means for controlling the flow of heat through walls of a concrete pressure vessel. 3,453,177, 7-1-69, Cl. 176-50.
Bilt-Rite Baby Carriage Co., Inc.: *See—*
Spector, Sanford; and Epstein, David, 3,425,744.
Bilton, John, to Fluidrive Engineering Company Limited. Fluid coupling with centrifugal fluid lock up clutch. 3,485,328, 12-23-69, Cl. 192-3.3
Bilton, John, to Fluidrive Engineering Company Limited. Hydraulic turbo-couplings. 3,486,336, 12-30-69, Cl. 60-54.
Biltz, Francis J. Voltage converter utilizing a leading control voltage. 3,430,101, 2-25-69, Cl. 315-194.
Bily, Peter J., to FMC Corporation. Fluid transfer apparatus. 3,434,491, 3-25-69, Cl. 137-315.
Bily, Peter J., to FMC Corporation. Fluid transferring apparatus. 3,434,497, 3-25-69, Cl. 137-615.
Bily, Peter J. Offshore articulated fluid conveying apparatus. 3,452,787, 7-1-69, Cl. 141-388.
Bily, Peter J., to FMC Corporation. Counterbalance system for a marine loading arm. 3,455,333, 7-15-69, Cl. 137-615.
Bily, Peter J., to FMC Corporation. Method and apparatus for offshore transfer of fluid. 3,461,924, 8-19-69, Cl. 141-388.
Bily, Peter J., to FMC Corporation. Mooring and fluid transferring method and apparatus. 3,472,293, 10-14-69, Cl. 141-387.
Bilz, Otto: *See—*
Fauth, Otto, 3,443,818.
Bilz, Ott. Quick-change chuck with adjustable tool- holding socket. 3,473,815, 10-21-69, Cl. 279-82.
Bimba, Charles W. Air cylinder with a removably locked piston rod connection. 3,426,656, 2-11-69, Cl. 92-255.
Bimba, Charles W. Piston connection to rod in double end rod type cylinder. 3,426,657, 2-11-69, Cl. 92-255.
Binaghi, Marco: *See—*
Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino,3,422,069.
Binckley, William G.; and Wright, Warren H., to United States of America, National Aeronautics and Space Administration. Voltage regulator with plural parallel power source sections. 3,480,789, 11-25-69, Cl. 307-53.
Bindel, Wolfgang: *See—*
Hesse, Alfred; and Bindel, Wolfgang,3,480,127.
Hesse, Alfred; Focken, Heinz; and Bindel, Wolfgang,3,469,776.
Binder and Company: *See—*
Oser, Jorg, 3,467,241.
Binder, Gerhard; and Nordsiek, Karl-Heinz, to Chemische Werke Huls Aktiengesellschaft. Polybutadiene modified to reduce low temperature crystallization. 3,476,721, 11-4-69, Cl. 260-82.1
Binder, Herbert; and Delaney, Robert V., to Singer-General Precision, Inc. Combination two-axis electromagnetic torque and pickoff. 3,475,971, 11-4-69, Cl. 74-5.6
Binder, Herbert; and Krupick, Walter J., to Singer-General Precision, Inc. Two-axis torquer. 3,438,270, 4-15-69, Cl. 74-5.47
Binder, Herbert; and Krupick, Walter J., to Singer-General Precision, Inc. Two-axis inductance bridge pickoff. 3,479,889, 11-25-69, Cl. 74-5.6
Binder, Joseph Morris, to Air Products and Chemicals, Inc. Purification of oil-contaminated water. 3,420,039, 1-7-69, Cl. 55-45.
Binder, Richard; and Faedler, Kurt, to Fichtel & Sachs A.G. Clutch plate with vibration dampeners in series. 3,428,155, 2-18-69, Cl. 192-106.1
Binder, Robert: *See—*
Forstner, Egon; and Binder, Robert,3,428,141.
Bindernagel, Ali, to Kocks, Friedrich, Kommanditgesellschaft. Spiral weld tube and pipe mills. 3,430,836, 3-4-69, Cl. 228-15.
Bindernagel, Ali; Kost, Erwin; and Steinbock, Rolf, to Kocks, Friedrich, Kommanditgesellschaft. Sealing and clamping heads. 3,448,773, 6-10-69, Cl. 138-90.
Bindernagel, Ali; Luebke, Horst; and Kost, Erwin, to Kocks, Friedrich, Kommanditgesellschaft. Clamping means for sealing and clamping heads. 3,473,574, 10-21-69, Cl. 138-109.
Bindler, Jakob: *See—*
Zurbuchen, Jakob; and Bindler, Jakob,3,436,169.
Binek, Bedrich; and Dohnalova, Blanka, to Ceskoslovenska akademie ved. Burner for a flame photometer having a subatmospheric pressure combustion chamber. 3,486,827, 12-30-69, Cl. 356-187.
Binelli, Walter D.: *See—*
Snyder, Carl R.; and Binelli, Walter D.,3,445,786.
Binford, Benjamin L., to Rockwell Manufacturing Company. Metering system and components thereof. 3,469,078, 9-23-69, Cl. 235-92.
Bing, Alan John, to Hovercraft Development Limited. Load-supporting apparatus. 3,477,387, 11-11-69, Cl. 104-23.
Bing, John H.; Vagedes, Lawrence J.; Luthman, Paul A.; and Colwill, Herbert W., to Avco Corporation. Material unloaders. 3,458,088, 7-29-69, Cl. 222-178.
Bing, John H.: *See—*
Vagedes, Lawrence J.; and Bing, John H.,3,430,818.
Binger, Bernhard; and Duernay, Karlheinz, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Superimposed steering gear for tracked vehicles. 3,439,559, 4-22-69, Cl. 74-720.5
Bingham, Henry, to Hard Metals Limited. Anti-skid devices. 3,473,591, 10-21-69, Cl. 152-210.
Bingley, George W.: *See—*
Noller, Fred W.; Bingley, George W.; and Smith, Jerald T.,3,452,882.
Bingman, William E.: *See—*
Calhoun, George H.; Bingman, William E.; and Swanson, Theodore M.,3,463,250.
Swanson, Theodore M.; Calhoun, George H.; Bingman, William E.; and Treseder, Richard S.,3,462,239.
Bini, Dante, to Binishells S.p.A. Method for erecting structures. 3,462,521, 8-19-69, Cl. 264-32.
Bininda, Norbert; and Wendt, Alfred, deceased,0 (by Wendt, Frau Alfred, sole heir). Traffic load equalization arrangement. 3,432,621, 3-11-69, Cl. 179-18.

Binishells S.p.A.: *See—*
Bini, Dante, 3,462,521.
Binker, Paul J.: *See—*
Bitterlich, Gordon M.; and Binker, Paul J.,3,463,602.
Binkley Company, The: *See—*
Baxter, Bob G., 3,436,987.
Binkley, Mark E.; and Ayers, Osborn, to Johns-Manville Corporation. Effect of cryolite on calcium silicate compositions. 3,449,141, 6-10-69, Cl. 106-120.
Binks, Chester J.; and Janiszewski, Casimer, to Blakeslee, G. S., & Co. Dishwashing machine track sections and mounting means therefor. 3,443,852, 5-13-69, Cl. 312-350.
Binks Research and Development Corporation: *See—*
Enssle, Bruno E., 3,448,961.
Enssle, Bruno Eugen, 3,433,415.
Binks-Bullows Limited: *See—*
Boyce, Guy Baron, 3,442,565.
Binnix, William B. Pneumatic separator and classifier apparatus and method. 3,424,309, 1-28-69, Cl. 209-44.
Binns, Jack N. Tool holder. 3,466,721, 9-16-69, Cl. 29-97.
Binoche, Michel L., to S. K. V., Societe Anonyme. Spray gun nozzle heads. 3,463,395, 8-26-69, Cl. 239-15.
Binon, Fernand; and Goldenberg, Charles, to Societe Belge de l'Azote et des Produits Chimiques de Marly, S.A.Certain 1-(2' benzofuranyl)-1-hydroxy-2- alkylamino or aralkylamino ethanes. 3,452,052, 6-24-69, Cl. 260-346.2
Binon, Fernand; Ziegler, Herbert; and Inion, Henri, to Laboratoires Labaz, mesne. Certain 2-(2,3-and 4-pyridyl) benzo- furan and derivatives thereof. 3,470,192, 9-30-69, Cl. 260-297.
Binon, Fernand; Ziegler, Herbert; and Marr, Claude, to Societe Belge de l'Azote et des Produits Chimiques de Marly, S.A. Process for the preparation of 1- and d-carnitine chlorides. 3,462,485, 8-19-69, Cl. 260-534.
Binsbergen, Frederik L., to Shell Oil Company. Poly (beta-lactone) compositions and process for preparing same. 3,471,455, 10-7-69, Cl. 260-78.3
Binsley, Robert L.; and Siegler, Robert S. Resonating combustor for directly starting turbine engine. 3,439,495, 4-22-69, Cl. 60-39.02
Binsley, Robert L.: *See—*
Siegler, Robert S.; and Binsley, Robert L.,3,474,622.
Binstead, Hugh Cecil; and Rondeau, George Edgar, to United Kingdom Optical Company Limited. Optical apparatus for the examination of the human eye. 3,467,466, 9-16-69, Cl. 351-14.
Binstock, Martin H.: *See—*
Katz, Norman H.; and Binstock, Martin H.,3,432,365.
Binzer, Ignaz, to Fairmont Chemical Co., Inc. Photosensitive diazotype materials. 3,424,585, 1-28-69, Cl. 96-91.
Binzoni, Emilio M.; Mersereau, Robert E.; and Wilson, Donald L., to Pitney-Bowes, Inc. Document handling apparatus. 3,473,799, 10-21-69, Cl. 271-7.
Binzoni, Emilio M.: *See—*
Pearce, John A.; and Binzoni, Emilio M.,3,473,394.
Bio Data, Inc.: *See—*
Dahl, Joseph D., 3,472,336.
Bio-Caf Instrument Company: *See—*
Glasschroeder, Hans, 3,482,282.
Bio-Dynamics, Incorporated: *See—*
Chamberlin, Henry S., Jr.; Graves, Roger E., Jr.; and Kelley, Joseph P., 3,454,942.
Bio-Lab., Inc.: *See—*
Bloom, Leon M., 3,468,809.
Bio-Medical Systems, Inc.: *See—*
Hargest, Thomas Sewell, 3,461,869.
Bio-Rad Laboratories: *See—*
Zabin, Burton A., 3,423,396.
Bio-Science Laboratories: *See—*
Charters, Arlen E., 3,436,732.
Thiers, Ralph E., 3,475,128.
Biochemie G.m.b.H.: *See—*
Frank, Albert; Kraushaar, Alfred; Margreiter, Hans; and Schunk, Roland, 3,432,490.
Bioconsultants, Inc.: *See—*
Farr, Andrew F., 3,420,224.
Farr, Andrew F., 3,426,745.
Biocngionics, Inc.: *See—*
Pinto, Olympio F., 3,433,222.
Biological Research, Inc.: *See—*
Weichselbaum, Theodore E.; and Varney, Pahilip L., 3,436,171.
Biondi, Manfred A., to Westinghouse Electric Corporation. Isolation trap. 3,426,511, 2-11-69, Cl. 55-389.
Bionetics Research Laboratories, Inc.: *See—*
Bozicevich, John, 3,449,488.
Biorex Laboratories Limited: *See—*
Baxendale, Lily, 3,442,911.
Turner, Jhn Cameron, 3,484,477.
Turner, John Cameron; and Davies, William Alan Mc Farlane, 3,452,078.
Wai, Kee-Neng, 3,444,290.
Biotec AB: *See—*
Meyer, Sven Fredrik Erhard, 3,463,092.
B.I.P. Brevets Inventions Promotion S.A.: *See—*
Cazet, Bernard, 3,434,176.
Bippus, Jacob R., to Western Electric Company, Incorporated. Apparatus for holding articles. 3,453,989, 7-8-69, Cl. 118-503.
Bippus, Jacob R.; and Johnson, Anderson F., Jr., to Western Electric Company, Incorporated. Methods and apparatus for separating articles initially in a compact array, and composite assemblies so formed. 3,448,510, 6-10-69, Cl. 29-413.
Bippus, Walter; Ackermann, Horst; and Hordler, Gisbert, to Kalle Aktiengesellschaft. Aparatus for the manufacture of evacuated film packages. 3,456,421, 7-22-69, Cl. 53-112.
Biraghi (Societe Anonyme): *See—*
Pignal, Edmond, 3,434,533.
Pignal, Edmond, 3,436,517.
Birard, Claude Auguste; and Cottrez, Gerard, to La Telemechanique Electrique, Societe Anonyme. Multiple monitoring system. 3,483,555, 12-9-69, Cl. 340-413.
Birbara, Philip J.: *See—*
Arnoldi, Walter E.; Birbara, Philip J.; and Russell, Sid,3,440,153.
Birch, Alexander A. Electrocardigraph electrode system. 3,450,133, 6-17-69, Cl. 128-2.06
Birch Brothers, Inc.: *See—*
Birch, Clifford W., 3,485,121.
Birch, Clifford W., to Birch Brothers, Inc. Method and apparatus for chain cutting textile webs and the like. 3,485,121, 12-23-69, Cl. 83-56.
Birch, Edward S., to Michigan Tool Company. Tool guide for gear forming machine. 3,459,103, 8-5-69, Cl. 90-10.
Birch, Edward S., to Michigan Tool Company. Tool feeding and relieving means for gear forming machine. 3,460,431, 8-12-69, Cl. 90-10.
Birch, Richard W. Traversing mechanism for pick-up transducer arm for disc records. 3,476,394, 11-4-69, Cl. 274-23.
Birch, Silas B., Jr.: *See—*
Sarff, Forest M.; and Birch, Silas B., Jr.,3,463,462.
Birch, William, (Engineers) Limited: *See—*
Johnson, David, 3,468,271.
Birchall, James Derek, to Imperial Chemical Industies Limited. Fire-extinguishing compositions. 3,484,372, 12-16-69, Cl. 252-7.
Bircher, Johannes, to U.S. Philips Corporation, mesne. Method of treating hepatic encephalopathy. 3,461,204, 8-12-69, Cl. 424-180.
Bircher, John H. Pump and filter unit. 3,447,685, 6-3-69, Cl. 210-167.
Bircher, Willis A. Welding gun. 3,463,902, 8-26-69, Cl. 219-130.
Birchler, Robert O.; and Williams, E. R., Jr., to Texas Instruments, Incorporated. Semiconductor devices and process for embedding same in plastic. 3,439,238, 4-15-69, Cl. 317-235.
Birck, Michael J., to Superior Continental Corporation, mesne. Telephone signaling system for rejecting spurious ringing signals. 3,471,650, 10-7-69, Cl. 179-84.
Birck, Michael J., to Continental Corporation, mesne. Telephone signaling system including carrier frequency transmission on voice frequency loaded pairs. 3,476,883, 11-4-69, Cl. 179-78.
Bird & Son, Inc.: *See—*
Allen, Herman Curtis, 3,482,867.
Bird Electronic Corporation: *See—*
Calderhead, Henry J.; and Puljer, Philip F., 3,447,082.
Puljer, Philip F., 3,475,701.
Bird, Forrest M.; and Pohndorf, Henry L. Apparatus for the mechanical ventilation of a patient. 3,454,000, 7-8-69, Cl. 128-28.
Bird, Forrest M.; and Pohndorf, Henry L. Pulmonary therapy respirator. 3,460,532, 8-12-69, Cl. 128-145.6
Bird, Forrest M.; and Pohndorf, Henry L. Spirometer. 3,467,078, 9-16-69, Cl. 128-2.08
Bird, Forrest M.; and Pohndorf, Henry L. Anesthesia apparatus and resuscitator. 3,467,092, 9-16-69, Cl. 128-145.6
Bird, Forrest M.; and Pohndorf, Henry L. Respirator with improved exhalation valve and control means. 3,485,243, 12-23-69, Cl. 128-145.8
Bird, Frank W.: *See—*
Krafft, Joseph M.; and Bird, Frank W.,3,477,285.
Bird, George R.; and Parrish, Maxfield, Jr., to Polaroid Corporation. Method of making metallic polarizer by drawing fusion. 3,479,168, 11-18-69, Cl. 65-3.
Bird, John D.; Garner, Howell D.; Lounsberry, Ernest D.; and Thomas, David F., to United States of America, National Aeronautics and. Space Administration Jet shoes. 3,420,471, 1-7-69, Cl. 244-4.
Bird, John R., to United States of America, Army. Carrier for fin stabilized projectiles. 3,444,813, 5-20-69, Cl. 102-42.
Bird Machine Company: *See—*
Amero, Clifford Leonard, 3,468,794.
Clarke-Pounder, Ian J. H., 3,437,204.
Garner, Edward Vernon, 3,426,909.
Heckmann, Wolfgang Gertrud Joseph, 3,423,016.
Troland, Edwin Parker; and Nelson, George L., 3,473,367.
Bird, Martin J., to Persons-Majestic Mfg. Co. Adjustable support for cycle saddle. 3,486,777, 12-30-69, Cl. 287-54.
Bird Provision Co.: *See—*
Vogel, Paul W.; and Yaiko, Leonard, 3,462,280.

Bird, Richard M.: *See—*
Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M.,3,444,533.
Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M.,3,453,445.
Bird, Roy F. Decollator. 3,468,530, 9-23-69, Cl. 270-52.5
Bird, Thomas S., to Bausch & Lomb Incorporated. Projection objective having large numerical aperture and high magnification. 3,432,226, 3-11-69, Cl. 350-214.
Bird, Thomas S., to Bausch & Lomb, Incorporated. Large aperture, high magnification reversed telephoto projection objective. 3,437,403, 4-8-69, Cl. 350-204.
Bird, William George. Brushless axial airgap inductor-type dynamoelectric machines and synchro systems using the same. 3,467,844, 9-16-69, Cl. 310-168.
Bird, William Henry, to Johnson & Johnson. Breast pad. 3,442,268, 5-6-69, Cl. 128-280.
Bird, William. Shopping cart with endless belt stair climbing means. 3,420,540, 1-7-69, Cl. 280-5.22
Bird, Wilmer L.: *See—*
Lewis, William R.; Bird, Wilmer L.; and Mindick, Morris,3,454,488.
Birdsall, Charles K.; and White, Richard M., to General Electric Company. Low-pass non-reactive frequency selective filter in which high frequencies are absorbed in dissipative material. 3,427,573, 2-11-69, Cl. 333-73.
Birdsall, Clay A. Cigarette snuffers for ashtrays. 3,472,240, 10-14-69, Cl. 131-235.
Birdsall, Fred R., to Bendix Corporation, The. Stationary coil electromagnetic clutch or brake. 3,465,862, 9-9-69, Cl. 192-84.
Birdsboro Corporation: *See—*
Metzger, Wilford E., Jr., 3,474,525.
Birdwell, Dewie W., to Citation Manufacturing Company, Inc. Fluid pressure relief valve. 3,437,110, 4-8-69, Cl. 137-528.
Birfield Engineering Limited: *See—*
Cull, William; and Hutchinson, Philip, 3,452,558.
Field, John Henry; and Parkes, George Robertson, 3,449,927.
Hutchinson, Philip, 3,464,232.
Macielinski, Jerzy Witold, 3,468,171.
Marks, Peter Edmund, 3,421,697.
Biringer, Paul Peter, to Ajax Magnethermic Corporation. Solid state static frequency multipliers. 3,436,641, 4-1-69, Cl. 321-7.
Birk, Peter: *See—*
Koch, Helmut; Heidemann, Hans Heinrich; Birk, Peter; Busch, Hans-Jurgen; and Bernhardt, Jost,3,441,964.
Birk, Rudolf: *See—*
Koehler, Roland; Birk, Rudolf; Frick, Hans Dieter; Fengler, Harald; and Geyken, Erwin,3,438,140.
Birkelo, Einar P.; and Johnson, Timothy N., to Rayette-Faberge, Inc. N-benzyl higher fatty alkyl diloweralkyl quaternary ammonuim halide hair rinse. 3,423,504, 1-21-69, Cl. 424-70.
Birkemeier, Henry Paul, to International Telephone and Telegraph Corporation. Rotating vane machine couplings. 3,433,166, 3-18-69, Cl. 103-118.
Birken, Karl, to RC-Ninty Five Incorporated, and 25% to Musumec, Alfred, mesne. Dielectric variable capacitor. 3,478,589, 11-18-69, Cl. 73-362.
Birkenmeyer, Robert D., to Upjohn Company, The. 7-Deoxylincomycin and analogs and isomers thereof and process for making the same. 3,435,025, 3-25-69, Cl. 260-210.
Birkenmeyer, Robert D., to Upjohn Company, The. Process for preparing 7(R)- and 7(S)- halolincomycins. 3,475,407, 10-28-69, Cl. 260-210.
Birkenmeyer, Robert D.; and Brignall, Thomas W., to Upjohn Company, The. Process for selectively preparing lincomycin 7-acylates. 3,455,900, 7-15-69, Cl. 260-210.
Birkenmeyer, Robert D.; Kagan, Fred; Magerlein, Barney J.; and Schneider, William P., to Upjohn Company, The. 16α-Chloro-1,4-pregnadiene compositions and process for treating inflammatory conditions. 3,461,207, 8-12-69, Cl. 424-243.
Birkett, Earl. Hoppering and orienting device. 3,429,479, 2-25-69, Cl. 221-172.
Birkett, Gordon; and Cram, Donald John, to Fisons Industrial Chemicals Limited. Selectively expanded plastic articles, their process of manufacture and an ink composition used in their manufacture. 3,464,934, 9-2-69, Cl. 260-2.5
Birkholtz, Gottfried, to Schenck, Carl, Maschenenfabrik G.m.b.H. Force-measuring device. 3,453,582, 7-1-69, Cl. 338-5.
Birkigt, Louis, to Brevets Aero-Mecaniques S.A. Explosive shell with base detonating fuse. 3,479,955, 11-25-69, Cl. 102-56.
Birkigt, Louis, to Brevets Aero-Mecaniques S.A. Self-propelled rifle grenade capable of being launched by bullet impact. 3,479,956, 11-25-69, Cl. 102-65.2
Birkmann, Theo: *See—*
Schwab, Erich; and Birkmann, Theo,3,462,627.
Birkner, Helmut; and Sturzenhofecker, Franz, to Chemische Werke Huls Aktiengesellschaft. Process for the production of polythioformaldehyde. 3,442,874, 5-6-69, Cl. 260-79.
Birko Chemical Corporation: *See—*
Smith, Ward Harris, 3,475,179.
Birlain Schafler, Armando; and Lombardo, Allan. Planographic printing plates. 3,478,684, 11-18-69, Cl. 101-453.
Birma Products Corporation: *See—*
Klein, Robert S., 3,443,599.
Birmingham, Donald J.: *See—*
Bridge, William H.; Birmingham, Donald J.; and Austad, Ralph William,3,454,936.
Birmingham, Henry Patrick; Perry, Barbour L.; and Baldwin, Alan W., to United States of America, Navy. Aircraft glide path visual position-indicating device. 3,447,128, 5-27-69, Cl. 340-26.
Birmingham, Henry P.; Perry, Barbour Lee; and Baldwin, Alan W. Aircraft depth-of-flash optical guidance system. 3,447,129, 5-27-69, Cl. 340-26.
Birmingham Small Arms Company Limited, The: *See—*
Wackrow, Roger David, 3,468,466.
Wackrow, Roger David, 3,473,718.
Wackrow, Roger David, 3,485,431.
Birnbaum, Herman A.; and Quigley, Stephen T., to Minnesota Mining and Manufacturing Company. Diphenylborinic acid esters. 3,485,864, 12-23-69, Cl. 260-462.
Birnbaum, Hermann, to Star-Kist Foods, Inc. Emulsifier for use in making yeast-raised baked goods. 3,443,965, 5-13-69, Cl. 99-91.
Birnbaum, Martin, to Schneider Radio-Television. Multivibrator system for producing modulated pulses width. 3,436,682, 4-1-69, Cl. 332-9.
Birnbaum, Milton, to Aerospace Corporation, The. Laser arrangement. 3,427,565, 2-11-69, Cl. 331-94.5
Birnbaum, Milton, to Aerospace Corporation, The. Continuous wave laser arrangement. 3,434,072, 3-18-69, Cl. 331-94.5
Birnbaum, Milton, to Aerospace Corporation, The. Pulsed laser arrangement. 3,464,023, 8-26-69, Cl. 331-94.5
Birnby, Martin R.: *See—*
Beck, Clarence J.; Birnby, Martin R.; and Lozier, Paul G.,3,429,798.
Birnstingl, David Wildon, to Mawdsley's Limited. Conductivity meter with cyclone filter. 3,471,775, 10-7-69, Cl. 324-30.
Biro, Alexander J., to Season-All Industries, Inc. Unitary prehung door and frame. 3,430,385, 3-4-69, Cl. 49-380.
Biro, Alexander J., to Season-All Industries, Inc. Window structure. 3,449,862, 6-17-69, Cl. 49-406.
Biro, Alexander J., to Season-All Industries, Inc. Method and structure for tightening secured matched abutting tubular stiles and rails by the contraction of the joined tubular members on a gusset. 3,472,543, 10-14-69, Cl. 287-189.36
Biro, Attila, to Koho-es Gepipari Miniszterium Tuzellestechnikai Kutatointezelt. Industrial furnace built of radiating elements. 3,473,795, 10-21-69, Cl. 263-41.
Biro, Steven E., to Ford Motor Company. Remote control for multiple ratio vehicle drivelines. 3,473,403, 10-21-69, Cl. 74-473.
Birr, Louis G., Jr.: *See—*
Mazzio, Anthony James; and Birr, Louis G., Jr.,3,475,093.
Birrell, Stewart H., to Owens-Illinois, Inc. Case packing apparatus. 3,443,355, 5-13-69, Cl. 53-161.
Birt, David Edward; Gibson, Anthony Thomas; Holden, Peter John; and Webley, Reginald Sidney, to Electric & Musical Industries Limited. Relating to thin film magnetic stores using printed electric circuits. 3,439,109, 4-15-69, Cl. 174-68.5
Birt, David Edward; Sivyer, Raymond Frank; and Webley, Reginald Sidney, to Electric & Musical Industries Limited. Thin film printed electric circuit. 3,460,105, 8-5-69, Cl. 340--174
Birt, David Robin, to Communications Patents Limited. Apparatus for generating modulated waves from pulse-type modulating signal. 3,435,378, 3-25-69, Cl. 332-41.
Birum, Gail H.: *See—*
Clampitt, Rodney B.; Birum, Gail H.; and Anderson, Richard M.,3,468,678.
Birum, Gail H., to Monsanto Company. Mesomeric phosphonium salts. 3,446,852, 5-27-69, Cl. 260-606.5
Birum, Gail H., to Monsanto Company. Fungicidal compositions and methods using mesomeric phosphonium compounds. 3,458,630, 7-29-69, Cl. 424-204.
Birum, Gail H.; and Matthews, Clifford N., to Monsanto Company. Mesomeric phosphonium salts. 3,426,073, 2-4-69, Cl. 260-606.5
Birum, Gail H.; and Matthews, Clifford N., to Monsanto Company. Fungicidal compositions and methods using mesomermic phosphonium compounds. 3,445,570, 5-20-69, Cl. 424-204.
Matthews, Clifford N.; and Birum, Gail H.,3,426,074.
Matthews, Clifford N.; and Birum, Gail H.,3,459,804.
Birum, Herbert L., Jr. Frame assemblies. 3,423,897, 1-28-69, Cl. 52-502.
Birum, Herbert L., Jr. Exterior wall accessories. 3,443,350, 5-13-69, Cl. 52-459.
Birum, Herbert L., Jr. Partition assemblies. 3,475,870, 11-4-69, Cl. 52-211.
Birum, Herbert L., Jr. Ceiling channel assembly for movable partitions. 3,477,186, 11-11-69, Cl. 52-242.
Bisbing, Robert H., to Southco, Inc. Magnetic latch fastener. 3,425,729, 2-4-69, Cl. 292-251.5
Bisbing, Robert H., to Suthco Incorporated. Latch fastener. 3,457,744, 7-29-69, Cl. 70-82.
Bisbing, Robert H., to Southco, Inc. Draw pull catch. 3,466,076, 9-9-69, Cl. 292-109.

Bisch, Helmut: *See—*
Goerke, Rolf; Bisch, Helmut; Togel, Kurt; and Speck, Werner,3,478,207.
Bischof, Alan E.: *See—*
Zeh, Herbert J., Jr.; and Bischof, Alan E.,3,451,480.
Bischof, Benno: *See—*
Wildi, Edwin; and Bischof, Benno,3,459,389.
Bischoff, Emil, to Ungerer, Karl Fr. Device for stacking sheet stock. 3,452,982, 7-1-69, Cl. 271-74.
Bischoff, Gunther: *See—*
Schiel, Christian; and Bischoff, Gunther,3,478,991.
Bischoff, Karl, to Hofliger & Karg. Method and apparatus for filling bags or the like. 3,469,364, 9-30-69, Cl. 53-37.
Bischoff, Karl; and Kirsch Heinrich, to Bopp & Reuther GmbH. Closure means for use during pressure testing of pipes or the like. 3,442,294, 5-6-69, Cl. 138-90.
Biscuits Brun: *See—*
Blanchon, Etienne Marie Joseph, 3,449,130.
Bise, Donald L., to Collins Radio Company. Mechanical filter with attenuation poles on both sides of passband. 3,439,295, 4-15-69, Cl. 333-71.
Bise, Donald L., to Collins Radio Company. Mechanical filter section with envelope delay compensation characteristic. 3,440,572, 4-22-69, Cl. 333-30.
Biship, Otis L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,428,923.
Bishman Manufacturing Company: *See—*
Rishovd, Sigurd A., 3,426,991.
Bishop, Alan Wilfred; and Skinner, Angus Evan, to Wykeham Farrance Engineering Limited. Oedometers. 3,448,608, 6-10-69, Cl. 73-94.
Bishop, Albert B., III, to Industrial Nucleonics Corporation. Methods and means for statistical variance analysis of sheet manufacturing processes using scanning and dwelling gauges. 3,471,685, 10-7-69, Cl. 235-151.13
Bishop and Babcock Corporation, The: *See—*
Munse, Robert A., 3,422,500.
Bishop, Arthur E. Dual-mode power steering system. 3,458,998, 8-5-69, Cl. 60-51.
Bishop, Bruce L. Fold-away kitchen appliance support. 3,464,749, 9-2-69, Cl. 312-248.
Bishop, Charles Richard, deceased0 (by Bishop, Muriel Janet, executrix). Stable structure. 3,420,066, 1-7-69, Cl. 61-46.5
Bishop, Clinton L.: *See—*
Brooks, Alden W.; Bishop, Clinton L.; Thomas, James R.; and Richard, Kenneth D.,3,464,875.
Bishop, Edwin V. Power loading and unloading truck body. 3,421,645, 1-14-69, Cl. 214-505.
Bishop, Frederic L., to Owens-Illinois, Inc. Method of sealing copper in silica body. 3,445,212, 5-20-69, Cl. 65-59.
Bishop, Frederic L., to Owens-Illinois, Inc. Composite lamp article with glass-ceramic lamp envelope. 3,451,579, 6-24-69, Cl. 220-2.1
Bishop, Frederic L., to Owens-Illinois, Inc. Devitrifying solder glass. 3,485,648, 12-23-69, Cl. 106-53.
Bishop, Frederic L.; Cook, Eugene M.; and Florence, Jack M., to Owens-Illinois, Inc. Method of tempering and imparting a protective scratch-resistant coating to a glass article. 3,475,150, 10-28-69, Cl. 65-60.
Bishop, George E.; and McManis, Donald L., to Collins Radio Company. Automatic direction control for an electrical motor. 3,465,222, 9-2-69, Cl. 318-33.
Bishop, Harry L.: *See—*
Ardito, Victor P.; Bishop, Harry L.; and Woodcock, Ray E.,3,432,288.
Bishop, James Lawrence, to Heinz, H. J., Company Limited. Can openers. 3,473,499, 10-21-69, Cl. 113-1.
Bishop, John D., to Bell Telephone Laboratories, Incorporated. Saturable reactor/constraining inductor arrangement. 3,432,741, 3-11-69, Cl. 321-45.
Bishop, John D., to Bell Telephone Laboratories, Incorporated. Driven inverter dead-time circuit. 3,435,324, 3-25-69, Cl. 321-45.
Bishop, John D.; Hasson, Murray R.; and Kadri, Fred V., to Bell Telephone Laboratories, Incorporated. Driven inverter dead-time circuit. 3,461,405, 8-12-69, Cl. 331-113.
Bishop, John M.; and Simon, Emmett F., to Conolon Corporation, The. Rod wrapping machine. 3,448,506, 6-10-69, Cl. 29-208.
Bishop, John Moses, and Simon, Emmett Francis: *See—*
Duross, Harry Robert, Jr., 3,425,587.
Bishop, Leonard J., to Mechanical Handling Systems, Inc. Power and free conveyor transfer system. 3,425,361, 2-4-69, Cl. 104-172.
Bishop, Leonard J., to Mechanical Handling Systems, Inc. Power and free conveyor system. 3,437,054, 4-8-69, Cl. 104-178.
Bishop, Leonard J., to American Chain & Cable Company, Inc., mesne. Accumulating tow truck conveyor system. 3,451,353, 6-24-69, Cl. 104-172.
Bishop, Lewis H., to Pierce Specialized Equipment Co. Air conveyer and unloader for granular materials and unloading process therefor. 3,454,307, 7-8-69, Cl. 302-55.
Bishop, Lewis H., to Pierce Specialized Equipment Co. Apparatus for rocking a photographic tray. 3,478,666, 11-18-69, Cl. 95-99.
Bishop, Muriel Janet: *See—*
Bishop, Charles Richard,3,420,066.
Bishop, Nigel Douglas: *See—*
Ghosh, Ranajit; and Bishop, Nigel Douglas,3,464,986.
Bishop, Robert G.; Desmarais, Armand J.; and Reid, Albert R., to Hercules Incorporated. Cellulose derivatives of improved dispersibility and process. 3,455,714, 7-15-69, Cl. 106-205.
Bishop, Samuel N.; and Grayson, Edward W., to Singer-General Precision, Inc. Manufacturing process. 3,468,003, 9-23-69, Cl. 29-1.2
Bishop, Thomas D., to Deritend Engineering Company Limited, The. Treatment of continuous webs. 3,448,646, 6-10-69, Cl. 83-303.
Bishop, Thomas D., to Deritend Engineering Company Limited, The. Rotary dies. 3,479,931, 11-25-69, Cl. 93-58.2
Bishop, Thomas Desmond,, to Deritend Engineering Company Limited, The. Apparatus for cutting and creasing cardboard. 3,443,490, 5-13-69, Cl. 93-58.2
Bishop, Thomas Desmond, to Deritend Engineering Company, Limited, The. Apparatus used in the production, for example, of blanks of board, plastics, or other sheet material. 3,454,271, 7-8-69, Cl. 271-51.
Bishop, Virgil S.; and Shekerjian, Hart, to Motorola, Inc. Mask alignment tool. 3,475,097, 10-28-69, Cl. 355-91.
Bishop, Walter F., to Bell & Howell Company. Method and apparatus for feeding single sheets. 3,447,799, 6-3-69, Cl. 271-21.
Bishop, Walter F.; and Bookless, Goerge W., to Bell & Howell Company. Apparatus for feeding single sheets. 3,447,798, 6-3-69, Cl. 271-21.
Bishop, William Gordon Groves: *See—*
Eaves, Dennis Robert; Bergemann, Horst; and Bishop, William Gordon Groves,3,449,985.
Bishop, William T., to Hercules Incorporated. Treatment of sylvinite ores. 3,452,867, 7-1-69, Cl. 209-166.
Bisk, Max. Shoe tree. 3,435,475, 4-1-69, Cl. 12-117.4
Biskup, Donald R., to American Telephone and Telegraph Company. Fault locating system utilizing narrow bandwidth channel to transmit fault surge arrival times to a master timing location. 3,462,681, 8-19-69, Cl. 324-52.
Biskup, John: *See—*
Migdol, Norman R.; and Biskup, John,3,433,700.
Bisland, Theodore. Automatic headrest and neck protector. 3,420,572, 1-7-69, Cl. 297-216.
Bislew, John E., to Case, J. I., Company. Transmission control. 3,469,472, 9-30-69, Cl. 74-761.
Bisque, Ramon E.: *See—*
Stevens, Douglas N.; Bloom, Duane N.; and Bisque, Ramon E.,3,465,593.
Bisschops, Johan Heinrich; Willems, Jozef Frans; and van Landeghem, Willy Karel, to Gevaert-Agfa N.V. Process for the manufacture of magnetizable recording layers. 3,460,984, 8-12-69, Cl. 117-161.
Bissell Inc.: *See—*
Bienek, Gunter, 3,457,575.
Gibbs, Kenneth E., 3,458,263.
Rosendall, Henry J.; Hughes, Martin Robert; and Yonkers, Robert A., 3,484,171.
Bissell, Robert D.: *See—*
Ingham, Robert J.; and Bissell, Robert D.,3,434,330.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; and Hooper Clive Williams, to Imperial Chemical Industries Limited. Over-end winding of yarn. 3,452,533, 7-1-69, Cl. 57-176.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew, to Imperial Chemical Industries Limited. Over-end winding of yarn. 3,451,209, 6-24-69, Cl. 57-156.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew, to Imperial Chemical Industries Limited. Over-end winding of yarn. 3,452,534, 7-1-69, Cl. 57-176.
Bissett, Alexander F., to General Electric Company. Removable brush assembly. 3,432,708, 3-11-69, Cl. 310-239.
Bissett, Ernest E. Railcar coupling. 3,450,271, 6-17-69, Cl. 213-75.
Bissett, Thomas B., to Bissett-Berman Corporation, The. Electrolytic devices. 3,432,814, 3-11-69, Cl. 340-173.
Bissett-Berman Corporation, The: *See—*
Bissett, Thomas B., 3,432,814.
Miller, Edmund A., 3,423,643.
Mintz, Martin, 3,423,644.
Mintz, Martin, 3,423,648.
Plehal, Edward J.; Frick, Gene; and Mintz, Martin, 3,423,642.
Bissinger, Walter J.: *See—*
Burney, Harold W.; Bissinger, Walter J.; and Landecker, Fred K.,3,423,976.
Bissinger, William E.; Strain, Franklin; Stevens, Henry C.; Dial, William R.; and Chisholm, Raymond S., to PPG Industries, Inc. Polycarbonate-carbamates. 3,474,072, 10-21-69, Cl. 260-49.
Bissot, Thomas C., to Du Pont de Nemours, E. I., and Company. Ethylene copolymer dispersions containing dimerized wood rosin soaps. 3,487,036, 12-30-69, Cl. 260-27.
Biswell, Charles Bedford: *See—*
Bartlett, Philip Lee; and Biswell, Charles Bedford,3,428,713.

Bitar, Louie S.; and Grane, Henry R., to Atlantic Richfield Company. Production of epoxide-taurine salt condensation products. 3,480,666, 11-25-69, Cl. 260-513.
Bitha, Panayota: *See—*
Hlavka, Joseph John; and Bitha, Panayota,3,455,800.
Winterbottom, Robert; Bitha, Panayota; and Kissman, Henry Marcel,3,433,834.
Bither, Tom A., Jr., to Du Pont de Nemours, E. I., and Company. Copper dichalcogenides and their preparation. 3,482,939, 12-9-69, Cl. 23-204.
Bitjugov, Jury Alexeevich: *See—*
Keller, Ulrikh Ulrikhovich; Ledokhovich, Adolf Nikodimovich; Bitjugov, Jury Alexeevich; and Stratulatov, Gennady Yakovlevich,3,479,999.
Bitler, William R.: *See—*
Ames, Stuart Leslie; and Bitler, William R.,3,423,253.
Bitney, Robert H. Spring biased hinge. 3,426,387, 2-11-69, Cl. 16-189.
Bittel, Fred F.; and Jaworski, Stanley F., to Cleveland Pneumatic Tool Company, The. Tracer guide. 3,456,558, 7-22-69, Cl. 90-62.
Bitter, Kenneth D.; Atkinson, George E.; and Fogle, William B., to Black and Decker Manufacturing, Company, The. Transmission and selector mechanism for alternate hammer and hammer-drill power tool. 3,433,082, 3-18-69, Cl. 74-22.
Bitterlich, Gordon M., to National Airoil Burner Company, Incorporated. Burners. 3,425,781, 2-4-69, Cl. 431-178.
Bitterlich, Gordon M.; and Binker, Paul J., to National Airoil Burner Company, Incorporated. Gas burner. 3,463,602, 8-26-69, Cl. 431-188.
Bitterlich, Gordon M.: *See—*
Stoops, James W.; Bitterlich, Gordon M.; Lipkin, Moses R.; and Primas, Alex L.,3,480,416.
Bitterly, Jack G., to McDonnell Douglas Corporation. Cooling material. 3,479,838, 11-25-69, Cl. 62-259.
Bittler, Knut: *See—*
Von Kutepow, Nikolaus; Bittler, Knut; and Neubauer, Dieter,3,437,676.
Von Kutepow, Nikolaus; Bittler, Knut; Neubauer, Dieter; and Reis, Hermann,3,455,989.
Bittman, Jess C.; and Miles, John H., to Vaughn Machinery Company, The. Wire or rod handling method and apparatus. 3,443,605, 5-13-69, Cl. 140-2.
Bittner, Donald L. Method for determination of protein-bound iodinated components. 3,471,553, 10-7-69, Cl. 260-519.
Bittner, Hans Joachim; and Jacobs, Lorenz, to Putsch, H., & Company. Glass pressing machine with fluid pressure controls. 3,471,281, 10-7-69, Cl. 65-163.
Bittorf, Hannjorg, to Siemens Aktiengesellschaft. System for the production of a flat electron beam for a traveling wave tube with purely electrostatic focusing. 3,454,806, 7-8-69, Cl. 313-75.
Bittorf, Hannjorg; Denk, Hans; and Wolfram, Roland, to Siemens Aktiengesellschaft. Traveling wave tube having damping means between the external input and output wave guides thereof. 3,483,418, 12-9-69, Cl. 315-3.5
Bituminous Coal Research Inc.: *See—*
Saltsman, Robert D., 3,443,364.
Bitzer, Martin; and Deibel, Raymond A., to Trico Products Corporation. Speed regulating valve assembly. 3,470,915, 10-7-69, Cl. 138-43.
Bitzer, Martin; and von Langendorff, Vitmar, to Trico Products Corporation. Intermittent dwell windshield wiper. 3,428,994, 2-25-69, Cl. 15-250.12
Bitzer, Roland. Knitted pile fabric and method of making the same. 3,468,139, 9-23-69, Cl. 66-194.
Biuro Projektow Przemyslu Hutniczego 'Biprohut':*See—*
Dybal, Kazimierz; Stwora, Eugeniusz; and Suchon, Kazimierz, 3,446,492.
Biuro Projektow Przemyslu Hutniczego 'Biprohut':*See—*
Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw, 3,459,417.
Gruszczynski, Leszek; and Adler, Henryk, 3,448,908.
Bivans Corporation: *See—*
Bivans, Elbert L.; and Kund, August, 3,421,288.
Bivans, Elbert L., 3,432,984.
Bivans, Elbert L., to Bivans Corporation. Stuffer for traveling cartons. 3,432,984, 3-18-69, Cl. 53-120.
Bivans, Elbert L.; and Kund, August, to Bivans Corporation. Carton-closing machine. 3,421,288, 1-14-69, Cl. 53-376.
Bivans, Lorna. Method of filling and camouflaging skin cavities. 3,444,291, 5-13-69, Cl. 424-63.
Biviator S.A.: *See—*
Adler, Karl, 3,457,524.
Ducommun, Georges; and Adler, Karl, 3,477,007.
Bixby, Harold O. Pyrographic type telautographic recorder. 3,436,476, 4-1-69, Cl. 178-18.
Bixby, Leon C.; and Halliwill, Eugene S. Infrared heating device. 3,460,460, 8-12-69, Cl. 99-327.
Bixby, Thomas G., to Phillips Drill Company, Inc., mesne. Stop rotation mechanism attachment. 3,478,829, 11-18-69, Cl. 173-104.
Bixby, William E.: *See—*
Balint, Andrew; Bixby, William E.; and Tyler, Len A.,3,424,579.
Hines, Walter; Bixby, William E.; and Quateman, Joseph I.,3,424,640.
Smitzer, Louis A.; Tyler, Len A.; Hines, Walter; and Bixby, William E.,3,442,585.
Bixby, William H., to New North Electric Company, mesne. Filtered alternating current voltage regulator. 3,435,331, 3-25-69, Cl. 323-45.
Bixby, William H., to New North Electric Company, mesne. Polyphase booster controlled battery charger with reduced telephone interference. 3,447,062, 5-27-69, Cl. 321-5.
Bixby, William H., to North Electric Company. Control circuit for rectifiers using silicon controlled rectifiers. 3,470,444, 9-30-69, Cl. 321-5.
Bixel, Bart B. Floor waxing apparatus. 3,453,058, 7-1-69, Cl. 401-188.
Bixler, David A.: *See—*
Leeke, Paul D.; and Bixler, David A.,3,445,832.
Bixler, Harris J.; Cross, Robert A.; and Markley, Lita L., to Amicon Corporation. Anti-thrombogenic material. 3,475,358, 10-28-69, Cl. 260-17.4
Bixler, Harris J.; and Fallick, Gary J., to Amicon Corporation. Reinforcing filler. 3,471,439, 10-7-69, Cl. 260-41.
Bixler, Kenneth D., to Diamond International Corporation. Produce package and blank for producing the lid. 3,482,680, 12-9-69, Cl. 206-45.31
Bixler, Kenneth D.; and Ralphs, Robert E., to Diamond International Corporation. Produce package and blank for producing a lid for the same. 3,482,679, 12-9-69, Cl. 206-45.31
Bizerba-Werke Wilhelm Kraut KG.: *See—*
Kuhnle, Ernest; and Schwarz, Josef, 3,421,595.
Bizet, Pierre, to CIT-Compagnie Industrielle des Telecommunications. Electronic switch. 3,431,435, 3-4-69, Cl. 307-247.
Bizet, Pierre, to Cit-Compagnie Industrielle des Telecommunications. Driftless direct current amplifier. 3,443,234, 5-6-69, Cl. 330-6.
Bizouard, Rene E., to Societe Anonyme Etablissements Rally. Combined ball obstacle and projector for a game table. 3,472,513, 10-14-69, Cl. 273-129.
Bjarno, Knud Maro Henrik, to Fritz Buser AG. Filling machines for composite containers. 3,448,559, 6-10-69, Cl. 53-188.
Bjereus, Sven R., to Svenska Aktiebolaget Bromsregulator. Hydraulic means for generating signals representative of fluctuating compression forces in railway vehicles and the like. 3,470,696, 10-7-69, Cl. 60-54.5
Bjerkan, Theodore J., to Combustion Equipment Company. Makeup air heater. 3,482,825, 12-9-69, Cl. 263-19.
Bjerke, Harald C.: *See—*
Doherty, Bernard E.; and Bjerke, Harald C.,3,486,533.
Bjerking, Sven-Erik. Production of piles and pile structures in the ground. 3,420,067, 1-7-69, Cl. 61-53.64
B. J. Management Corporation: *See—*
Greenwall, Robert A., Jr.; and Halvorsen, Jack L., 3,467,922.
Bjorck, Sverker R. F. Y., to Liljeholmens Stearinfabriks AB. Device for shaping the butt ends of candles. 3,453,686, 7-8-69, Cl. 18-1.
Bjordahl, James: *See—*
Brastow, Edgar R.; Bjordahl, James; and Little, Ronald F.,3,434,355.
Bjork, Albion P., to BLH Electronics, Inc. Temperature regulation of thermal recording. 3,438,056, 4-8-69, Cl. 346-76.
Bjork, Bengt Anders, to Aktiebolaget Electrolux. Apparatus for sterilizing articles. 3,454,353, 7-8-69, Cl. 21-94.
Bjork, Gust H., to Pure Air Mufflers, Inc. Muffler. 3,425,216, 2-4-69, Cl. 60-30.
Bjork, Harold John Carl; and Kilander, Sven Gustav Ingemar, to Telefonaktiebolaget L M Ericsson. Automatic telephone exchange for subscriber's instruments with push button keysending. 3,478,172, 11-11-69, Cl. 179-18.
Bjork, John A.: *See—*
Rickley, Samuel S.; and Bjork, John A.,3,453,031.
Bjork, Nils Arvid Norman; and Borg, Sven-Bertil, to AGA Aktiebolag. Optical scanning by means of infra-red radiation. 3,430,045, 2-25-69, Cl. 250-83.3
Bjorklund, Ludvig, to Allmanna Svenska Elektriska Aktiebolaget. Valve system for hydraulic elevators. 3,437,012, 4-8-69, Cl. 91-446.
Bjorknas, John. Protective starting device for internal combustion engines. 3,456,637, 7-22-69, Cl. 123-140.
Bjorknas, John: *See—*
Southwell, Leslie H.; and Bjorknas, John,3,446,119.
Bjorksten, Johan: *See—*
Paquette, Elmer G., 3,477,157.
Bjorksten, Johan A.; and Kaufman, William A., to Griffolyn Company, Inc. Means and system for tie-down. 3,467,999, 9-23-69, Cl. 24-245.
Bjorksten Research Laboratories, Inc.: *See—*
Paquette, Elmer Gordon, 3,478,393.
Bjorkum, Svein: *See—*
Henriksen, Jan-Erik; and Bjorkum, Svein,3,433,882.
Bjorn-Larsen, Knut L. Panty girdle and stocking support. 3,478,748, 11-18-69, Cl. 128-535.

Bjorn, Warren A. Security systems. 3,443,069, 5-6-69, Cl. 235-61.11
Bjornestad, Odd. Process for making skis from plastics reinforced with glass fibers. 3,438,828, 4-15-69, Cl. 156-171.
Bjornson, Geir, to Phillips Petroleum Company. Fluoroform production. 3,439,052, 4-15-69, Cl. 260-653.
Bjornson, Geir, to Phillips Petroleum Company. High temperature zirconia coated thermocouple. 3,462,318, 8-19-69, Cl. 136-233.
Bjornson, Geir, to Phillips Petroleum Company. Plasma jet conversion of fluoroform. 3,471,546, 10-7-69, Cl. 260-465.7
Blaauw, Albert: *See—*
de Graaf, Johannes; and Blaauw, Albert,3,475,489.
Blaauw, Andrew: *See—*
Becker, Gordon D.; and Blaauw, Andrew,3,450,211.
Blachut, Theodore J.; Schut, Gerhardus H.; and Smialowski, Antoni J., to Canadian Patents and Development Limited. Photogrammetric projection instrument. 3,486,820, 12-30-69, Cl. 355-22.
Blachut, Theodore J.; and Smialowski, Antoni J., to Canadian Patents and Development Limited. Photogrammetric method and apparatus. 3,465,444, 9-9-69, Cl. 33-20.
Black and Decker Manufacturing Company, The: *See—*
Amrein, Carl J.; and Bednarski, Thaddeus E., 3,441,766.
Amrein, Carl J.; and Carman, Charles V., 3,447,011.
Amrein, Carl J., 3,480,814.
Bacon, Robert N., 3,424,964.
Beckering, Jacobus J., 3,429,078.
Beckering, Jacobus J.; and Beares, Allen G., 3,474,575.
Beckering, Jacobus J.; Duran, Raymond J.; and Lessig, William R., III, 3,485,018.
Bednarski, Thaddeus E., 3,482,458.
Bitter, Kenneth D.; Atkinson, George E.; and Fogle, William B., 3,433,082.
Duran, Raymond J.; and Beares, Allen G., 3,485,017.
Harris, Robert Dennis, 3,478,240.
Harvey, David E.; Amrein, Carl J.; and Abbratozzato, Salvatore R., 3,476,965.
Houck, Frederick D., 3,464,503.
Lessig, William R., III; and Dickson, James E., 3,428,328.
Lessig, William R., III, 3,481,123.
Miller, Daniel A.; and Saffell, William F., 3,426,227.
Miller, Daniel A., 3,430,708.
Miller, Daniel A., 3,430,709.
Moores, Robert G., Jr., 3,454,284.
Riley, Robert H., Jr.; and Wood, John W., 3,485,307.
Sheps, Martin I.; Beckering, Jacobus J.; and Bednarski, Thaddeus E., 3,432,703.
Shreve, Arthur L., III; Norris, Lyell Bayne, Jr.; and Beichler, Robert W., 3,481,453.
Sieber, Charles B., 3,486,569.
Sindelar, William F., 3,428,327.
Sindelar, William F., 3,454,059.
Smith, Stanley K.; and Ramstrom, Lee W., 3,486,460.
Walter, Richard T., 3,436,578.
Wood, John W., 3,481,411.
Zelik, Hynek, 3,447,001.
Zelik, Hynek J.; and Cowman, George W., 3,450,917.
Zelik, Hynek J., 3,478,788.
Black Clawson Company, The: *See—*
Artiano, Adrian; and Lindberg, Verne L., 3,421,561.
Chupka, David E., 3,471,367.
Dain, John E.; and Milne, William S., 3,430,738.
Gove, Harvey H.; and Anderson, John C., 3,427,685.
Green, Marshall S., 3,450,596.
Hautau, Charles F., 3,453,856.
Hautau, Charles F., 3,453,910.
Hautau, Charles F., 3,456,557.
Hautau, Charles F., 3,468,199.
Hautau, Charles F., 3,472,058.
Mainstone, Kenneth A., 3,482,793.
Notbohm, Willard C., 3,459,124.
Notbohm, Willard C., 3,478,811.
Notbohm, Willard C., 3,483,080.
Palmer, Albert; and Lindberg, Verne L., 3,478,789.
Penkala, Joseph E.; and Escarfail, Jean-Pierre, 3,453,137.
Penrod, William R., 3,478,975.
Phelps, Richard W., 3,471,097.
Rojecki, Walter E., 3,447,453.
Schaffrath, Paul M., 3,468,242.
Swickad, James L.; and Curati, Hershel L., 3,461,495.
Swickard, James L.; and Koppehele, Paul H., 3,477,098.
Swickard, James L., Jr., 3,423,566.
Black, Conrad Nagel; and Cockrell, John William. Remote load or battery control system. 3,457,491, 7-22-69, Cl. 320-48.
Black, Donald M.; and Carfagno, Samuel J., to Flexible Packaging Equipment, Inc. Self-manifolding cylinders. 3,422,728, 1-21-69, Cl. 91-414.
Black, Donald: *See—*
Neuendorf, Charles A.; and Black, Donald,3,440,654.
Black, Enoch. Safety steering column. 3,424,263, 1-28-69, Cl. 180-82.
Black, Ernest L., to Purex Corporation, Ltd. Laboratory fume hood. 3,425,335, 2-4-69, Cl. 98-115.
Black, Francis B.; and Harris, Ellis D., to Sperry Rand Corporation. Binary code converters. 3,438,025, 4-8-69, Cl. 340-347.
Black, Frank S.; and Haselton, Thomas P., to General Electric Company. Thermocouple having composite sheath. 3,463,674, 8-26-69, Cl. 136-233.
Black, George L., Jr. Apparatus for harvesting agricultural crops. 3,460,330, 8-12-69, Cl. 56-328.
Black, Guy: *See—*
Blitz, Melvin H.; Brown, Donald W.; and Black, Guy,3,460,270.
Black, H. R., Company: *See—*
Hutson, Cyril, 3,485,379.
Black, Hugh. Wood fasteners. 3,431,810, 3-11-69, Cl. 85-11.
Black, James A. Slitting and scoring apparatus. 3,459,078, 8-5-69, Cl. 83-8.
Black, James B.; and Luzaich, Samuel, to Twin Disc Incorporated. Gear transmission driven by torque converter and constant speed clutch. 3,447,397, 6-3-69, Cl. 74-732.
Black, James B.: *See—*
Hilpert, Conrad R.; and Black, James B.,3,420,344.
Black, James T., Jr. Apparatus for continuously casting elongated metal bodies. 3,437,129, 4-8-69, Cl. 164-282.
Goss, Norman P.; Black, James; and Stewart, William J.,3,438,820.
Black, John O. Bed. 3,456,266, 7-22-69, Cl. 5-8.
Black, John O. Bed. 3,456,267, 7-22-69, Cl. 5-8.
Black, Leon Paul. Automatic window cleaning device. 3,444,580, 5-20-69, Cl. 15-302.
Black, Matthew B., III, to Pennsalt Chemicals Corporation. Coagulation of polytetrafluoroethylene latex. 3,464,964, 9-2-69, Cl. 260-92.1
Black, Robert B. Aspirating cartridge syringe with gas actuation. 3,433,223, 3-18-69, Cl. 128-218.
Black, Robert B. Gas actuated hypodermic syringe. 3,433,224, 3-18-69, Cl. 128-218.
Black, Robert B. Aspirating cartridge syringe with gas actuation. 3,460,534, 8-12-69, Cl. 128-218.
Black, Robert H. Lockwasher. 3,481,381, 12-2-69, Cl. 151-35.
Black, Robert J.; and Sordello, Frank J., to International Business Machines Corporation. Memory system. 3,427,606, 2-11-69, Cl. 340-174.1
Black, Robert J.; Thaler, George J.; Prentky, Peter I.; and Cordano, Richard D., to International Business Machines Corporation. Positioning system for random access device. 3,426,337, 2-4-69, Cl. 340-174.1
Black, Robert L., Jr., to Parks-Cramer Company. Crane mounted loom cleaner with synchronized oscillation. 3,422,481, 1-21-69, Cl. 15-312.
Black, Robert L., Jr., to Parks-Cramer Company. Method of removing fiber waste from spinning frames. 3,429,745, 2-25-69, Cl. 134-37.
Black, Robert L., Jr., to Parks-Cramer Company. Method for collecting fiber waste in textile mills. 3,437,520, 4-8-69, Cl. 134-21.
Black, Robert L., Jr.; and Lee, Charles D., Jr., to Parks-Cramer Company. Textile machine tending and cleaning apparatus. 3,432,877, 3-18-69, Cl. 15-312.
Black, Robert L., Jr.: *See—*
Lee, Charles D., Jr.; and Black, Robert L., Jr.,3,486,319.
Black Sivalls and Bryson, Inc.: *See—*
Mills, Stanley M., 3,463,351.
Myers, James F., 3,485,082.
Black, Stanley H.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,428,910.
Black, Swalls & Bryson, Inc.: *See—*
Wood, Loren E., 3,484,817.
Black, William A. P.; Dewar, Eric T.; and Rutherford, David, to United States of America, Agriculture. Dichloride salts of o-methylenated sugar acids. 3,420,852, 1-7-69, Cl. 260-340.7
Black, William A. P.; Dewar, Eric T.; and Rutherford, David, to United States of America, Agriculture. Method of precipitating polyvalent cations. 3,433,738, 3-18-69, Cl. 210-54.
Black, William A.; Dewar, Eric T.; and Rutherford, David, to United States of America, Agriculture. 1,6-Diamino-2,3:4,5-di-O-benzilidine-1,6- dideoxygalactitol. 3,463,790, 8-26-69, Cl. 260-340.9
Black, William Hill, Jr.: *See—*
Black, William Hill; and Black, William Hill, Jr.,3,473,362.
Black, William Hill; and Black, William Hill, Jr. Connector plate for joining wood members and method and apparatus for making same. 3,473,362, 10-21-69, Cl. 72-326.
Black, William Horace; and Pittman, Clarence Edward. Drawer form. 3,462,208, 8-19-69, Cl. 312-352.
Black, William J.: *See—*
Anderson, Rodney H.; Black, William J.; and Miller, Lawrence J.,3,483,640.
Black, William L., to Raytheon Company. Impulse noise cancellation. 3,456,198, 7-15-69, Cl. 325-475.
Blackband, William Thomas; and Nichols, David Edgar Thomas, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Phase-optimized antennae system. 3,453,623, 7-1-69, Cl. 343-100.

Blackbourn, Charles E. Expandable headband cap. 3,470,565, 10-7-69, Cl. 2-8.
Blackburn, Donald Macpherson, to Wickman Lang Limited, (formerly known as John Lang & Sons Limited). Lathe chucking equipment. 3,452,997, 7-1-69, Cl. 279-4.
Blackburn Electronic Production Controls Ltd.: *See*—
Pickles, Norman, 3,433,188.
Blackburn, Ian. Self-igniting cigarette. 3,420,240, 1-7-69, Cl. 131-7.
Blackburn, John A. Credit card cleaning apparatus. 3,428,988, 2-25-69, Cl. 15-160.
Blackburn, Marvin J., to Vernon Tool Co., Ltd. Simplified automatic pipe cutting machine. 3,430,938, 3-4-69, Cl. 266-23.
Blackburn, Richard D., to General Electric Company. Time delay circuit for regulator control circuit. 3,427,469, 2-11-69, Cl. 307-130.
Blackburn, Robert S., to McDonnell Douglas Corporation, mesne. Valve with isolated valve actuating mechanism. 3,442,487, 5-6-69, Cl. 251-257.
Blackburn, Walter L. Wedge button. 3,483,841, 12-16-69, Cl. 114-218.
Blackert, John E.: *See*—
Towers, Harvey S.; and Blackert, John E.,3,424,525.
Blackett, James C., to Honeywell Inc. Rotary safe leak valve. 3,425,597, 2-4-69, Cl. 222-3.
Blackett, James C., to Honeywell Inc. Condition detecting apparatus, including capacitor in series with sensor means, for short circuit protection. 3,428,901, 2-18-69, Cl. 328-1.
Blackett, James C., to Honeywell Inc. Burner control apparatus with prepurge timing. 3,449,055, 6-10-69, Cl. 431-26.
Blackett, James C., to Honeywell Inc. Solid-state control system. 3,482,922, 12-9-69, Cl. 431-26.
Blackett, James C.; Flagg, Raymond P.; Livingston, William L.; and Ritchart, Stuart T., to Honeywell Inc. Liquid operator valve. 3,421,536, 1-14-69, Cl. 137-253.
Blackford Raymond H., to Durable Manufacturing Company. Valve disc. 3,456,682, 7-22-69, Cl. 137-516.17
Blackhurst, Daniel G., to Bliss, E. W., Company. Movable press bolster. 3,422,661, 1-21-69, Cl. 72-448.
Blackhurst, Robert Vaughan: *See*—
Coplin, John Frederick; Longley, Peter; and Blackhurst, Robert Vaughan,3,421,686.
Blackley, William D., to Texaco Inc. Hydrocarbon oxidation. 3,462,494, 8-19-69, Cl. 260-586.
Blackley, William D.; Siegart, William R.; and Chafetz, Harry, to Texaco , Inc. Fluorocarbon derivatives of paraffin wax. 3,429,937, 2-25-69, Cl. 260-653.8
Blackley, William D.: *See*—
Siegart, William R.; Blackley, William D.; Chafetz, Harry; and McMahon, Matthew A., Jr.,3,480,667.
Blacklock, Arthur G.: *See*—
Pryor, Harry H.; Kessler, Arthur R.; Blacklock, Arthur G.; Neumann, Charles G.; Short, William H.; and Modjeski, Richard N.,3,446,137.
Blackman, Calvin C. Heat exchanger. 3,429,370, 2-25-69, Cl. 165-47.
Blackman, Dennis G.; and Fisher, John Stanley. Collapsible containers. 3,446,384, 5-27-69, Cl. 217-14.
Blackman, Glenn R.; and Robinson, Edward W. Pressure relief mechanism for anti- slam valves. 3,422,843, 1-21-69, Cl. 137-514.
Blackman, Paul R.; and Sullivan, Edmund T., to Air Reduction Company, Incorporated. Arcuate club type welding gun. 3,428,778, 2-18-69, Cl. 219-130.
Blackman, Seymour N. Mercury glass clinical thermometer with maximum temperature recording trap and method of making the trap. 3,460,390, 8-12-69, Cl. 73-371.
Blackmer, Harold D. Multipoint vibration detector. 3,477,280, 11-11-69, Cl. 73-71.4
Blackmer, Leroy L., to Eastman Kodak Company. Diffraction grating recording. 3,453,640, 7-1-69, Cl. 346-1.
Blackmon, Laura Mae. Artists' supply cases. 3,446,337, 5-27-69, Cl. 206-1.7
Blackmore, Donald W. Brewing apparatus. 3,424,075, 1-28-69, Cl. 99-298.
Blackmore, Joseph J.; and Glung, Perry G. Liquid downflow air purging means for a vortex type de-aerator and the like. 3,486,306, 12-30-69, Cl. 55-205.
Blackmore, Kenneth A. E.: *See*—
Markham, Aaron E.; and Blackmore, Kenneth A. E.,3,476,740.
Blackstien, Allan A.: *See*—
Halko, John J., Jr., 3,480,313.
Blackstone Corporation: *See*—
Carlson, Richard E., 3,431,620.
de Christopher, Eugene, 3,449,857.
Hale, Everett W., 3,479,093.
Laudenslager, Harry B., Jr.; and Hale, Everett W., 3,445,299.
Blackwell, F. C., and Company Limited: *See*—
Hukin, Arthur Shepherd, 3,461,220.
Hukin, Arthur Shepherd, 3,464,052.
Blackwell, Francis O., III: *See*—
Eisengrein, Robert H.; and Blackwell, Francis O., III,3,437,813.
Eisengrein, Robert H.; Blackwell, Francis O., III; and Golden, Forrest B.,3,441,817.
Blackwell, George T., Jr. Adzing apparatus. 3,486,542, 12-30-69, Cl. 144-133.
Blackwell, Jennings P., to Phillips Petroleum Company. Thermal stabilization of aliphatic sulphonyl halides. 3,478,094, 11-11-69, Cl. 260-543.
Blackwell, Jennings P.: *See*—
Reinert, Andrew J.; Blackwell, Jennings P.; and Cantrel, Kenneth E.,3,474,173.
Blackwell, John K., to Redditch Hosiery Needles Limited. Latched needles. 3,453,845, 7-8-69, Cl. 66-121.
Blackwell, Lyman L.; and Able, Edward T., to Sweeney, B. K., Manufacturing Co. Portable static meter for determining the magnitude and polarity of accumulated electrostatic charges. 3,449,668, 6-10-69, Cl. 324-72.
Blackwell, Noah E., III; and Metrailer, William J., to Esso Research and Engineering Company. Desulfurization process. 3,446,728, 5-27-69, Cl. 208-218.
Blackwell, Noah E., III: *See*—
Stuckey, Alto N., Jr.; Blackwell, Noah E., III; and del Valle, Ignacio G.,3,475,323.
Blackwell, Paul K., Jr.: *See*—
Rudolph, Luther D.; Blackwell, Paul K., Jr.; and Hair, Hugh A.,3,445,821.
Blackwell, Ronald J. Method of producing precipitation from the atmosphere and apparatus therefor. 3,456,880, 7-22-69, Cl. 239-2.
Blackwell, Willis A.: *See*—
Riesbeck, Laverne J.; and Blackwell, Willis A.,3,463,315.
Blackwood, Everett C. Utility farm vehicle for mixing and discharging bulk material. 3,482,821, 12-9-69, Cl. 259-6.
Blackwood, John; La Police, George D.; and Rakacs, Joseph G., to Singer Company, The. Fold-away spool holder for a sew machine. 3,444,833, 5-20-69, Cl. 112-218.
Bladen, Thomas H., to United States of America, Navy. Balanced amplifier burst signal gate. 3,430,153, 2-25-69, Cl. 330-15.
Bladen, Thomas H., to United States of America, Navy. Variable gain amplifier. 3,449,686, 6-10-69, Cl. 330-29.
Blaettler, Josef, to Ineta Establishment. Method and apparatus for drying of materials. 3,468,036, 9-23-69, Cl. 34-22.
Blaettner, Kurt; and Nowy, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Soluble, readily polishable hard waxes. 3,459,811, 8-5-69, Cl. 260-613.
Blagg, Leon, to Schlumberger Technology Corporation. Thru-tubing bridge plug. 3,460,618, 8-12-69, Cl. 166-184.
Blagojevich, Milorad, to Kearney-National Inc. Self-energized tool for crimping connection fittings about electrical conductor lines. 3,481,373, 12-2-69, Cl. 140-113.
Blaha, Emil, to Seals Corporation of America. Method of making ceramic shapes. 3,423,217, 1-21-69, Cl. 106-39.
Blaho, Rudolph G.: *See*—
Brilando, Frank P.; and Blaho, Rudolph G.,3,481,628.
Brilando, Frank P.; Jameson, Stanley R.; and Blaho, Rudolph G.,3,426,614.
Blaich, Emil; and Niemann, Gert, to Bosch, Robert G.m.b.H. Accumulator with electrolyte reservoir in the cover. 3,485,678, 12-23-69, Cl. 136-162.
Blain, Roy W., to Elevator Equipment Company. Pressure-temperature compensated hydraulic valve regulator. 3,474,811, 10-28-69, Cl. 137-80.
Blair, Bryce Wilson, to AMP Incorporated. Gate control means for traveling platen roller. 3,461,799, 8-19-69, Cl. 101-269.
Blair, Calvin B., to United Manufacturers, Inc. Bale accumulator gate construction. 3,436,903, 4-8-69, Cl. 56-473.5
Blair, Calvin B., to United Manufacturers, Inc. Bale accumulator for special field conditions. 3,443,708, 5-13-69, Cl. 214-353.
Blair, Calvin B., to United Manufacturers Inc. Material handling device. 3,455,477, 7-15-69, Cl. 214-767.
Blair, Chester C., Jr.; and Smith, Richard E., to Sylvania Electric Products, Inc. Projector lamp filament support. 3,470,413, 9-30-69, Cl. 313-331.
Blair, Clifford L. Tail stock structure. 3,436,995, 4-8-69, Cl. 82-38.
Blair, Darrell J., to M & B Electric Co., Inc. Electric motor heating unit. 3,445,743, 5-20-69, Cl. 318-436.
Blair, David J.; and Herold, Carl D., Jr., to Sylvania Electric Products, Inc. Radio communication systems. 3,435,344, 3-25-69, Cl. 325-421.
Blair, Etcyl H.; and Fischback, Bryant C., to Dow Chemical Company, The. Certain di-loweralkoxy phosphino-thio-(and di-thio) poly halo pyridyl acetates. 3,455,938, 7-15-69, Cl. 260-294.8
Blair Fashions, Inc.: *See*—
Blair, Ronald L.; and Aileen, S. Carlson, 3,468,313.
Blair, George Richard: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,434,855.
Blair, James. Irrigation spray line. 3,448,927, 6-10-69, Cl. 239-177.
Blair, John, to Coloroll Limited. Handle forming machine. 3,424,067, 1-28-69, Cl. 93-1.

Blair, Larry Keene; and Grot, Walther Gustav, to Du Pont de Nemours, E. I., and Company. Perfluorovinylacetyl fluoride. 3,454,633, 78-69, Cl. 260-544.
Blair Products S.A.: *See—*
Chambers, Michael B., 3,464,729.
Blair, Robert C. Means and method for controlling the edge-drying of gypsum wallboard. 3,435,535, 4-1-69, Cl. 34-7.
Blair, Ronald L.; and Aileen, S. Carlson, to Blair Fashions, Inc. Undergarment with back support. 3,468,313, 9-23-69, Cl. 128-520.
Blair, Stanley A., to Grace, W. R. & Co. Manually removable tear-type closure elements. 3,447,710, 6-3-69, Cl. 215-40.
Blair, William Carmichael: *See—*
Bennett, Roy Brian; and Blair, William Carmichael,3,435,262.
Blais, Maurice E., to Schjeldahl, G. T., Company. Punch. 3,465,634, 9-9-69, Cl. 83-695.
Blaisdell, Donald Stapf; and Klaas, Ruth Elizabeth Barry. Compositions of matter and process of treating sewage therewith. 3,423,312, 1-21-69, Cl. 210-50.
Blake, Carl B.; and Fuerst, Adolph, to Martin-Marietta Corporation. Printing on anodized aluminum. 3,484,342, 12-16-69, Cl. 204-18.
Blake, Darrell N. Perforated pipe. 3,431,975, 3-11-69, Cl. 166-227.
Blake, Donald E. Apparatus, reamer and methods for working pipe. 3,445,871, 5-27-69, Cl. 10-107.
Blake, Edward S.; and Hammann, William C., to Monsanto Company. Functional fluid compositions. 3,451,061, 6-17-69, Cl. 260-613.
Blake, Edward S.; and Webster, James A., to Monsanto Research Corporation. Tetrakis perfluoro-akyl orthosilicates. 3,463,802, 8-26-69, Cl. 260-448.8
Blake, Francis W. Farm tool carrier. 3,422,908, 1-21-69, Cl. 172-106.
Blake, George T. Devices for use in the marking out of building sites. 3,462,843, 8-26-69, Cl. 33-1.
Blake, Gordon H.: *See—*
Smith, Larry G.; Blake, Gordon H.; and Van Way, Jim P.,3,438,678.
Blake, Jack W., to Jacobs, F. L., Co. Ash receptacle for automobiles. 3,466,107, 9-9-69, Cl. 312-246.
Blake, Lawrence R., to Celanese Corporation. Art of producing filamentary materials of cellulose ester. 3,428,468, 2-18-69, Cl. 106-171.
Blake, Michael P. Flexible coupling. 3,485,062, 12-23-69, Cl. 64-14.
Blake, Ralph Kingsley, to Du Pont de Nemours, E. I., and Company. Process for making electrically conductive images. 3,464,822, 9-2-69, Cl. 96-38.4
Blake, Stephen, to Wallace & Tiernan Inc., mesne. Diketo-dicarboxylic acids and salts and preparation thereof by alkaline oxidation. 3,441,605, 4-29-69, Cl. 260-537.
Blake, Whitney, Company, The: *See—*
Quackenbush, Edward C., 3,437,978.
Quackenbush, Edward Clarke, 3,474,384.
Blake, William, and Company, Incorporated: *See—*
Blake, William L., 3,426,652.
Blake, William L., to Blake, William, and Company, Incorporated. Rotary hydraulic actuator with locking means. 3,426,652, 2-11-69, Cl. 92-27.
Blake, William T. Draft gear traaction control valve. 3,463,328, 8-26-69, Cl. 213-43.
Blakeley, Richard H.; and Bergere, Emric. Blind fastener. 3,443,474, 5-13-69, Cl. 85-72.
Blakely, Carl Frederick; and Longmire, Donald E., to Boeing Company, The. Cargo loading apparatus. 3,463,334, 8-26-69, Cl. 214-75.
Blakely, David R.: *See—*
Blakely, James T., Jr.; and Blakely, David R.,3,464,454.
Blakely, James T., Jr.; and Blakely, David R. Picker stick checking means. 3,464,454, 9-2-69, Cl. 139-165.
Blakely, Roger W., Jr., to Litton Systems, Inc . Method and apparatus for measuring absolute gas pressure. 3,463,009, 8-26-69, Cl. 73-384.
Blaker, David G.: *See—*
Cabbage, John T.; Blaker, David G.; and Berger, Richard F.,3,435,084.
Blaker, David P.; and Conrad, Kenneth J. Bowling ball hole gauging device and drilling apparatus. 3,465,619, 9-9-69, Cl. 77-5.
Blakeslee, G. S., & Co.: *See—*
Binks, Chester J.; and Janiszewski, Casimer, 3,443,852.
Cumming, John, 3,468,320.
Janiszewski, Casimer, 3,443,568.
Blakewell, Roland F.; Lanzinger, Robert H.; and Loveland, Malcolm W., to Atlas-Pacific Engineering Company. Pear quartering device. 3,444,912, 5-20-69, Cl. 146-34.
Blakewell, Roland F.: *See—*
Matthews, Rudolph; Blakewell, Roland F.; and Simpson, Frank E.,3,439,791.
Blalock, Theron V., to United States of America, Atomic Energy Commission. Double delay-line filters for pulse amplifiers. 3,457,516, 7-22-69, Cl. 328-165.
Blanc, Albert J.; and Levine, Harvey, to MacBeth Corporation. Fiber optics aperture. 3,463,595, 8-26-69, Cl. 356-201.
Blanch, Charles H.; and Olzak, Henry F., to Alert Stamping and Mfg. Co., Inc. Reel construction having improved ratchet and pawl. 3,432,623, 3-11-69, Cl. 191-12.2
Blanch, Charles H.; and Olzak, Henry F., to Alert Stamping and Mfg., Co., Inc. Reel construction having pawl optionally mounted. 3,450,369, 6-17-69, Cl. 242-107.7
Blanchard, Albert E.: *See—*
Galloway, George W.; and Blanchard, Albert E.,3,468,398.
Blanchard, Clarence E., Jr., to Outboard Marine Corporation. Positive locking shifting mechanism. 3,455,420, 7-15-69, Cl. 192-51.
Blanchard, Edward R.; and Marancik, William G., to Air Reduction Company, Incorporated. Mixture of ozone and oxygen containing a fluorine additive. 3,428,501, 2-18-69, Cl. 149-1.
Blanchard, Edward R.; and Reiter, Sydney H., to Air Reduction Company, Incorporated. Heat leak measuring device and method. 3,453,865, 7-8-69, Cl. 73-15.
Blanchard, Elwood P., Jr., to Du Pont de Nemours, E. I., and Company. N,N'-Dicyano-1,3-diazapropenes and the preparation thereof from cyanamides and N-cyanoiminocarbonates. 3,439,031, 4-15-69, Cl. 260-551.
Blanchard, Elwood P., Jr., to Du Pont de Nemours, E. I., and Company. 1-Arylbicyclo [1.1.0] butanes, intermediates thereto and homopolymers thereof. 3,470,111, 9-30-69, Cl. 260-2.
Blanchard, Elwood P., Jr., to Du Pont de Nemours, E. I., and Company. Inter SE copolymers of bicyclo [1.1.0.] butanes. 3,470,137, 9-30-69, Cl. 260-78.5
Blanchard, Floyd W. Stop means for limiting cartridge movement in self-pressurizing ballpoint pens. 3,457,019, 7-22-69, Cl. 401-187.
Blanchard, Richard L.: *See—*
Leckey, Cleve R.; Quint, Richard J.; and Blanchard, Richard L.,3,427,723.
Blanchard, Robert R.: *See—*
Schnebelen, David F.; Young, Warren L.; Blanchard, Robert R.; and Graham, Glen H.,3,467,732.
Blanche, James F., to United States of America, National Aeronautics and Space Administration. Electrical feed-through connection for printed circuit boards and printed cable. 3,430,182, 2-25-69, Cl. 339-17.
Blanche, Josef: *See—*
Schramm, Paul; and Blanche, Josef,3,421,626.
Thorn, Ewald Reinhard; Weber, Wilhelm; Lemberg, Ernst Siegfried; and Blanche, Josef,3,437,212.
Blanchette, Howard M.; and Osban, William R., to Monsanto Company. Vent valve. 3,439,697, 4-22-69, Cl. 137-119.
Blanchette, Robert J., to Structural Bearing Co. Structural bearing pad assembly. 3,484,882, 12-23-69, Cl. 14-16.
Blanchon, Etienne Marie Joseph, to Biscuits Brun. Methods for treating cereal brans. 3,449,130, 6-10-69, Cl. 99-80.
Blanck, Hillard: *See—*
Happel, John; and Blanck, Hillard,3,420,753.
Blanco, Raymond E.; Clark, Walter E.; and Yee, William C., to United States of America, Interior. Chemical cycle for evaporative water desalination plant. 3,463,814, 8-26-69, Cl. 260-555.
Bland, Durwood Gene: *See—*
Otstot, Roger S.; Bland, Durwood Gene; and Meeks, James W.,3,440,388.
Bland, John, to McAlpine, Robert, Sir, & Sons Limited. Earth drilling equipment. 3,426,857, 2-11-69, Cl. 173-163.
Bland, Larry I.: *See—*
Van Buskirk, Mark; and Bland, Larry I.,3,439,232.
Blandin, Ernest W. Means for transferring graphic material. 3,432,235, 3-11-69, Cl. 355-84.
Blandin Paper Company: *See—*
Richardson, Charles A., 3,480,455.
Blanding, Leonard C.; Meyer, Hans J.; and Liebler, Kenneth A., to Lear Siegler, Inc. Dynamic gas film bearing structure. 3,433,538, 3-18-69, Cl. 308-9.
Blanding, Wendell S.: *See—*
Bennett, Robert W.; Blanding, Wendell S.; and Hausher, Lawrence B.,3,473,909.
Blane, Leslie L., to Bell Telephone Laboratories, Incorporated. Recorded telephone dictation trunk circuit. 3,436,483, 4-1-69, Cl. 179-6.
Blane, Leslie L., to Bell Telephone Laboratories, Incorporated. Telephone signaling arrangement. 3,436,487, 4-1-69, Cl. 179-84.
Blanford, William F., to Parke, Davis & Company. Vaginal bib. 3,452,750, 7-1-69, Cl. 128-132.
Blank, Aaron P., to Kamborian, Jacob S. Shoe construction. 3,422,551, 1-21-69, Cl. 36-77.
Blank, Benjamin; and Sutton, Blaine M., to Smith Kline & French Laboratories. Phenoxazines. 3,475,427, 10-28-69, Cl. 260-244.
Blank, Charles E., Sr.: *See—*
Newcomb, Wallace K.; Blank, Charles E., Sr.; and Van Loon, Donald F.,3,438,638.
Blank, Edward, to Tobe Deutschmann Laboratories, Inc. Low-inductance capacitor. 3,461,363, 8-12-69, Cl. 317-261.
Blank, George F., to Hexcel Corporation. Explosively welded honeycomb method. 3,449,819, 6-17-69, Cl. 29-470.9
Blank, Herbert, to Du Pont de Nemours, E. I., and Company. Polymeric chloroacylamides as gelatin hardeners. 3,442,655, 5-6-69, Cl. 96-111.

Blank, John M.; and Potter, Ralph M., to General Electric Company. SiC p-n junction electroluminescent diode with a donor concentration diminishing from the junction to one surface and an acceptor concentration increasing in the same region. 3,458,779, 7-29-69, Cl. 317-234.
Blank, Robert J.; Friedman, Charles M.; and Richman, Bruce. Denture cleaning agitator. 3,472,493, 10-14-69, Cl. 259-72.
Blank, Stewart M. Deformed shock absorbing devices. 3,437,367, 4-8-69, Cl. 293-70.
Blanke, Gordon Clifford, to Beckman Instruments, Inc. Electronic integrator. 3,433,936, 3-18-69, Cl. 235-183.
Blankenbaker, John V., to Scantlin Electronics, Inc. Keyboard input system. 3,483,553, 12-9-69, Cl. 340-365.
Blankenhorn, Charles F.; and Grahek, Ted A., to Shell Oil Company. Process for regenerating cation exchange resins. 3,454,503, 7-8-69, Cl. 260-2.2
Blankenship, Ernest Bayne. Incinerator toilet using water. 3,474,468, 10-28-69, Cl. 4-131.
Blanshine, Allison W.; and Procter, Edward C., to Sperry Rand Corporation. Spring loaded cam adjusted idler. 3,463,024, 8-26-69, Cl. 74-242.11
Blanton, Albert G., to International Harvester Company. Cotton harvester delivery conveyor and method of conveying. 3,423,133, 1-21-69, Cl. 302-61.
Blanton, Albert G.; and Cable, Wyatt T., Jr., to International Harvester Company. Cotton harvester delivery conveyor. 3,423,132, 1-21-69, Cl. 302-61.
Blanz, Jerry A.: *See*—
Becker, John C.; Benjaminson, Albert; Blanz, Jerry A.; Karrer, Henry E.; and Moffat, Robert J.,3,456,216.
Blanzy, Eugene J.; and Carlson, Everett W., to Lincoln Brass Works. Gas valve structure. 3,443,591, 5-13-69, Cl. 137-625.3
Blasbalg, Herman L., to International Business Machines Corporation. Random-access communication system employing pseudo-random signals. 3,432,619, 3-11-69, Cl. 179-15.
Blaschek, Otto, to Arnold & Richter KG. Cassettes and cameras equipped therewith. 3,480,351, 11-25-69, Cl. 352-35.
Blaschke, Franz: *See*—
Schade, Gerhard; and Blaschke, Franz,3,454,536.
Schade, Gerhard; and Blaschke, Franz,3,476,708.
Blaschke, Ludwig, to Niezoldi & Kramer GmbH. Movie camera or projector film presence indicator. 3,472,583, 10-14-69, Cl. 352-171.
Blase, George W., to Dow Chemical Company, The. Bracket for wicketed bags. 3,472,388, 10-14-69, Cl. 211-57.
Blaser, Alfred: *See*—
Keller, Siegfried; and Blaser, Alfred,3,460,871.
Blashfield, Floyd A.: *See*—
Renner, George B.; and Blashfield, Floyd A.,3,430,552.
Blass Antenna Electronics Corporation: *See*—
Blass, Judd; and Ranghelli, Joseph Charles, 3,478,284.
Blass, Ischajahu; and Blass, Symcha. Irrigation dripper unit and pipe system. 3,420,064, 1-7-69, Cl. 61-13.
Blass, Judd; and Ranghelli, Joseph Charles, to Blass Antenna Electronics Corporation. Microwave phase shifter including adjustable tuned reactance means. 3,478,284, 11-11-69, Cl. 333-98.
Blass, Reinhold: *See*—
Schafer, Wolfgang; and Blass, Reinhold,3,425,894.
Blass, Symcha: *See*—
Blass, Ischajahu; and Blass, Symcha,3,420,064.
Blaszczak, Joseph W. Reaction products of riboflavin with formaldehyde and process for preparing same. 3,479,335, 11-18-69, Cl. 260-211.3
Blatt, Fred M.: *See*—
Schuler, Chester L.; Margolien, David H.; and Blatt, Fred M.,3,452,267.
Blatt, Leland F. Toggle action jaw type gripper. 3,482,831, 12-9-69, Cl. 269-32.
Blatt, Milton D.: *See*—
Nelson, Harry A.; Oeland, Ernest N., Jr.; Miller, Howard A.; and Blatt, Milton D.,3,477,376.
Blatter, Albert: *See*—
Carlin, William F., III.; Blatter, Albert; and Reiff, Albert T., Jr.,3,443,428.
Blatter, Franciscus Petrus Albertus, to Chemische Fabriek L. van der Grinten N.V. Cooling means for an exposure cylinder of photoprinting apparatus. 3,433,566, 3-18-69, Cl. 355-110.
Blatter, Hans; and Wuthrich, Rolf, to Aktiengesellschaft Brown, Boveri & Cie. Rectifier arrangement utilizing semiconductor elements. 3,479,578, 11-18-69, Cl. 321-11.
Blatter, Herbert Morton: *See*—
Carney, Richard William James; Blatter, Herbert Morton; and de Stevens, George,3,454,573.
Carney, Richard William James; Blatter, Herbert Morton; and DeStevens, George,3,483,200.
de Stevens, George; Blatter, Herbert Morton; and Chernov, Harvey,3,449,498.
Blatter, Herbert Morton, to Ciba Corporation. Triazines. 3,423,409, 1-21-69, Cl. 260-248.
Blatter, Herbert Morton, to Ciba Corporation. Pyrazolopyridines. 3,423,414, 1-21-69, Cl. 260-296.
Blatter, Johannes Reinier, to U.S. Philips Corporation, mesne. Planar dispenser cathode assembly with a cap member to which an electron-emissive, tubular heater and rod-shaped support members are clamped. 3,467,879, 9-16-69, Cl. 313-346.
Blattner, David G.: *See*—
Whitener, Philip C.; Wadleigh, Robert R.; and Blattner, David G.,3,447,761.
Blattner, Ernest W.; Boettcher, Harry H.; Carter, Anthony F.; Heitmann, Arnold M.; Holt, Wainwright, Jr.; and Wilson, David G., to Chicago Pneumatic Tool Company. Centrifugal gaseous medium compressor. 3,424,372, 1-28-69, Cl. 230-127.
Blattner, Frederick R. Animation device. 3,451,749, 6-24-69, Cl. 352-87.
Blattner, Hans: *See*—
Schindler, Walter; and Blattner, Hans,3,458,499.
Schindler, Walter; Blattner, Hans; and Zust, Armin,3,464,991.
Blatz, Paul E.; and Erickson, James O., to Mobil Oil Corporation. Graft copolymers. 3,475,515, 10-28-69, Cl. 260-875.
Blatz, Paul E.; and Faris, Sam R., to Mobil Oil Corporation. Catalysis of esterification with a permeable membrane of sulfonated poly(2,6-dialkylphenol). 3,479,390, 11-18-69, Cl. 260-468.
Blatz, Philip Strubing, to Du Pont de Nemours, E. I., and Company. Flame-resistant hydrocarbon polymers. 3,449,308, 6-10-69, Cl. 260-88.1
Blatz, Philip Strubing, to Du Pont de Nemours, E. I., and Company. Flame-resistant hydrocarbon polymers. 3,457,243, 7-22-69, Cl. 260-79.5
Blatz, Philip Strubing; and Maloney, Daniel Edwin, to Du Pont de Nemours, E. I., and Company. Modification of olefin-carboxylic acid halide copolymers. 3,441,545, 4-29-69, Cl. 260-78.5
Blatz, Philip Strubing; and Maloney, Daniel Edwin, to Du Pont de Nemours, E. I., and Company. Polymeric antioxidants. 3,457,328, 7-22-69, Cl. 260-857.
Blatz, Robert A., to Handgards, Inc. Package for storing and dispensing thin sheet-like articles. 3,486,657, 12-30-69, Cl. 221-33.
Blau, Fritz R. Glass union. 3,425,716, 2-4-69, Cl. 285-110.
Blau, Hans; and Stoof, Gerhard, to Hermann Wiederhold. Sound absorber. 3,421,597, 1-14-69, Cl. 181-33.
Blau, Robert E.; and Stone, George E., to Basic Incorporated. Shaft furnace feeding device and method. 3,429,463, 2-25-69, Cl. 214-35.
Blaupunkt-Werke G.m.b.H.: *See*—
Altmann, Albrecht, 3,429,987.
Blaw Associates: *See*—
Adam, Lewis; and Lanes, Stanley S., 3,440,094.
Blaw Knox Limited: *See*—
Morgan, John Guy David, 3,452,406.
Blaw-Knox Company: *See*—
Anderson, Lyle V., 3,477,655.
Cavitt, Thomas S., 3,455,541.
Karnofsky, George B., 3,478,531.
Karnofsky, George B., 3,486,346.
Nowak, Leon J., Jr.; Robinson, Joseph L.; Krolopp, Otto C.; Keenan, Joseph H.; and Smith, Joseph L., 3,486,240.
Ornitz, Martin N., 3,437,131.
Ornitz, Martin N., 3,447,936.
Remmar, Robert A.; and Schuetz, James W., 3,433,046.
Remner, Robert A., 3,470,723.
Stelmach, George A., 3,478,626.
Turner, Gordon C., 3,460,228.
Blaze, Joseph E., Jr., to Babcock & Wilcox Company, The. Rotary apparatus for making ceramic fibers. 3,485,611, 12-23-69, Cl. 65-15.
Blazek, Otta; Herynk, Milon; and Rybar, Josef, to Skoda, narodni podnik. Apparatus for analyzing rotary motion. 3,475,973, 11-4-69, Cl. 74-29.
Blazek, William J., to Bear Manufacturing Company, mesne. Brake disc lathe. 3,442,164, 5-6-69, Cl. 82-2.
Blazon, Inc.: *See*—
Cremer, Frits, 3,454,988.
Grudoski, Daniel P., 3,447,802.
Kazdan, Aralee, 3,451,672.
Bleackley, William J.: *See*—
Cumming, William A.; and Bleackley, William J.,3,456,355.
Bleackley, William J., to Canadian Patents and Development Limited. Microwave drying system using phase shifters. 3,463,894, 8-26-69, Cl. 219-10.61
Bleackley, William J., to Canadian Patents and Development Limited. Apparatus for dielectric heating. 3,466,415, 9-9-69, Cl. 219-10.61
Bleackley, William J.; and Cumming, William A., to Canadian Patents and Development Limited. Method and apparatus for dielectric heating. 3,465,114, 9-2-69, Cl. 219-10.55
Blech, Ilan A.: *See*—
Duffek, Edward F., Jr.; and Blech, Ilan A.,3,480,412.
Blech- und Metallwarenfabrik, Robert Fischbach: *See*—
Gross, Johann, 3,430,846.
Bleckmann & Co.: *See*—
Jagersberger, Adolf, 3,478,423.

Bleckner, Edward, Jr.: *See—*
Whang, Sang Y.; Bleckner, Edward, Jr.; Weiss, Burton J.; and Payne, Paul E.,3,453,552.
Bledstein, Louis, to Arvin Industries, Inc. Multiple radius punch for pipe bending. 3,466,919, 9-16-69, Cl. 72-389.
Bleher, William C., to American Biltrite Rubber Co., Inc. Tape reclaiming device and process. 3,429,761, 2-25-69, Cl. 156-247.
Bleibtreu, Alexander, to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. System for increasing the switching capacity of transfer switches for tap-changing transformers. 3,445,615, 5-20-69, Cl. 200-146.
Bleibtreu, Alexander; and Kreuzpaintner, Josef Albert, to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. Selector switch for regulating transformers. 3,485,965, 12-23-69, Cl. 200-11.
Bleibtreu, Alexander; and Schweitzer, Ulrich G. E., to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. Selector switch for load tap-changers of regulating transformers. 3,445,611, 5-20-69, Cl. 200-11.
Bleicher, Irving, to General Precision Inc. Solid state scanning arrangement for determining location of a light spot on a panel. 3,437,815, 4-8-69, Cl. 250-203.
Bleicher, Manfred: *See—*
Paule, Kurt; Bleicher, Manfred; Martin, Hans; Wanner, Karl; Bronnert, Helmut; and Koehler, Heinrich,3,456,740.
Bleickardt, Werner, to Bell Telephone Laboratories, Incorporated. High-speed binary counter. 3,459,973, 8-5-69, Cl. 307-286.
Bleininger, Leonard S.: *See—*
Taylor, Geoffrey N.; and Bleininger, Leonard S.,3,430,006.
Bleistiftmaschinenbau Dipl. Ing. Karl: *See—*
Zuber, Karl, 3,456,581.
Blekhman, Ilja Izrailevich: *See—*
Dubrovin, Boris Nickolaevich; Fedorov, Boris Nickolaevich; Blekhman, Ilja Izrailevich; and Petrosjants, Anatoly Aramaisovich,3,467,318.
Blendermann, Louis, to Josam Manufacturing Co. Controlled flow drain. 3,469,698, 9-30-69, Cl. 210-163.
Blendermann, Louis, to Josam Manufacturing Co. Shock absorber for liquid flow lines. 3,473,565, 10-21-69, Cl. 137-593.
Blendermann, Louis; and Scheuer, Nicholas G., to Josam Manufacturing Co. Roof drain. 3,469,699, 9-30-69, Cl. 210-166.
Blenkarn, Kenneth A., to Pan American Petroleum Corporation. Extensible caisson for underwater well. 3,450,201, 6-17-69, Cl. 166-0.5
Blenkarn, Kenneth A.; and Knapp, Alphia E., to Pan American Petroleum Corporation. Protection of offshore structure from icebergs. 3,436,920, 4-8-69, Cl. 61-1.
Blenkinsop, Ward, & Company Limited: *See—*
Green, Peter N.; and Shapero, Maurice, 3,457,281.
Bles, Marcus J. Snow-removing basket for tractor. 3,431,662, 3-11-69, Cl. 37-118.
Blessings, Inc.: *See—*
Foote, Philip H., 3,461,871.
Bletcher, James H.: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Bletcher, Pearl,: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Bletcher Pearl W.: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Bletcher, Ralph E.: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Bletcher, Richard J.,: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Blethen, John, to Marine Colloids, Inc. Synthetic pulp for edible juices and method of making same. 3,446,625, 5-27-69, Cl. 99-105.
Bletso, Nelson C.: *See—*
Bauer, Richard G.; Bletso, Nelson C.; Mast, William C.; and Pierson, Robert M.,3,475,516.
Bletz, Howard W. Therm-O-Disc, Incorporated Thermostatic control with adjusting cam. 3,462,722, 8-19-69, Cl. 337-347.
Blevens, Bertram G., to Cissell, W. M., Manufacturing Company. Form finisher and bag for use therewith. 3,429,489, 2-25-69, Cl. 223-67.
Blevins, John B.: *See—*
Olson, Cleo C.; and Blevins, John B.,3,459,264.
Blevins, Kenneth A., to Sirco Manufacturing, Inc. Table with folding legs. 3,474,743, 10-28-69, Cl. 108-17.
Blevins, Marvin O.: *See—*
Tillay, Dale; and Blevins, Marvin O.,3,428,019.
Tillay, Dale; and Blevins, Marvin O.,3,470,846.
Blevins, Parker R.; Heard, Roderick S.; and Hornung, Louis M., to International Business Machines Corporation. Record reader with controls. 3,461,430, 8-12-69, Cl. 340-172.5
Blevins, Theodore R.; and Webber, William T., to Chevron Research Company. Method of assisting the recovery of hydrocarbons using a steam drive. 3,483,924, 12-16-69, Cl. 166-272.
Blewitt, George W., Jr., to General Electric Company. Combined hinge and switch mechanism with pin and slot connection. 3,440,373, 4-22-69, Cl. 200-61.7
Blewitt, Roy E., Jr., to American Machine & Foundry Company. Bowling ball path indicator. 3,460,832, 8-12-69, Cl. 273-54.
Bley, Frederick O.; and Strauss, Martin, to First Foto, Inc. Identification camera. 3,460,891, 8-12-69, Cl. 355-29.
BLH Electronics, Inc.: *See—*
Bjork, Albion P., 3,438,056.
Kadlec, Charles, 3,426,586.
Laimins, Eric, 3,439,761.
Laimins, Eric, 3,448,424.
Laimins, Eric, 3,470,738.
Laimins, Eric, 3,474,875.
Senour, Donald A., 3,434,343.
Bliamptis, Emmanuel E.; and Quinn, Hubert R., to High Voltage Engineering Corporation. High voltage acceleration tube structure. 3,478,241, 11-11-69, Cl. 313-63.
Blicher, Adolph, to Radio Corporation of America. Insulated-gate field-effect transistor with critical bulk characteristics for use as an oscillator component. 3,439,236, 4-15-69, Cl. 317-235.
Blicher, Adolph; and Czorny, Bohdan R., to Radio Corporation of America. High voltage semiconductor transistor. 3,427,515, 2-11-69, Cl. 317-235.
Blickenderfer, Charles; Brookhyser, Byron B.; and Schliewe, Robert, to Weyerhaeuser Company. Method and apparatus for aligning and transferring logs. 3,456,774, 7-22-69, Cl. 198-20.
Blickensderfer, Philip S., to U.S. Plywood-Champion Papers, Inc. Foams demonstrating thermal memory and products made therefrom. 3,420,363, 1-7-69, Cl. 206-46.
Blickstein, Martin J.; and Mittler, Martin A., to Voltronics Corporation. Variable capacitor. 3,476,994, 11-4-69, Cl. 317-253.
Blickstein, Martin J.; and Mittler, Martin A., to Voltronics Corporation. Air dielectric adjustable capacitor. 3,483,450, 12-9-69, Cl. 317-251.
Bligh, Bernard Ramsay, to Imperial Chemical Industries Limited. Purification process. 3,474,636, 10-28-69, Cl. 62-124.
Blight, Dennis Jack; Boswell, Stanley Harold; and Damoisiaux, Anthony John, to International Standard Electric Corporation. Electrical connector or the like having coupling nut dentent means. 3,462,727, 8-19-69, Cl. 339-89.
Blikken, Wendell A.; Cutrona, Louis J.; Ingalls, Arthur L.; Leith, Emmett N.; and Porcello, Leonard J., to United States of America, Air Force. Optical plural channel signal data processor. 3,427,104, 2-11-69, Cl. 355-2.
Blinder, William, to General Motors Corporation. Roundness gauge. 3,468,034, 9-23-69, Cl. 33-174.
Blinn, Herbert M. Alarm dialing and transmitting system with message transmission responsive to change of polarity on telephone lines. 3,444,325, 5-13-69, Cl. 179-5.
Blinne, Charles F. Heater for plastic pipe. 3,466,020, 9-9-69, Cl. 263-4.
Blinow, Igor: *See—*
Bickford, John H.; and Blinow, Igor,3,459,330.
Bickford, John H.; and Blinow, Igor,3,484,021.
Blish, Matthew B. Card supported package. 3,428,171, 2-18-69, Cl. 206--078
Bliss & Laughlin Industries, Incorporated: *See—*
Ames, Robert G., 3,483,662.
Bliss, Arthur D.: *See—*
Ratz, Rudi F. W.; and Bliss, Arthur D.,3,423,486.
Ratz, Rudi F. W.; and Bliss, Arthur D.,3,445,468.
Bliss, Billy R.; Gilliam, Clarence W.; and Laswell, John E., to United States of America, Navy. Photoflash cartridge. 3,473,472, 10-21-69, Cl. 102-32.
Bliss, Bruce J.: *See—*
Clarke, John F.; and Bliss, Bruce J.,3,453,849.
Bliss, Bruce J., to Texas Instruments, Incorporated. High-temperature braze shim stock. 3,476,528, 11-4-69, Cl. 29-182.3
Bliss, Denys Stanley, to Hovercraft Development Limited. Means for bounding a space for receiving pressurised gas. 3,420,330, 1-7-69, Cl. 180-128.
Bliss, E. W., Company: *See—*
Alexander, Thomas W.; Malolepsy, Richard G.; and Jakso, Sandor, 3,481,171.
Alexander, Thomas William, 3,456,478.
Anderson, Vincent H., 3,451,667.
Anderson, Vincent Hugo, 3,422,750.
Armbruster, Ronald H. D.; and Hubert, Joseph B., 3,446,167.
Bair, Robert L.; and Thompson, Charles S., 3,441,237.
Bair, Robert Lee, 3,447,006.
Ballintine, Oscar P., Jr., 3,446,051.
Balunas, Vincent J., Jr.; and Hitch, Thomas R., 3,433,048.
Bartlett, Peter G., 3,462,692.
Bartlett, Peter G., 3,462,746.
Bartlett, Peter G.; and Meschi, Joseph E., 3,466,468.
Bartlett, Peter G.; and Meschi, Joseph E., 3,466,618.
Blackhurst, Daniel G., 3,422,661.
Burke, Harry T.; Helrigel, Robert A.; and Lewis, James A., 3,483,726.
Cheslock, Edward P., 3,462,110.
Clark, Larry Keith; and Bartlett, Peter Greenough, 3,466,599.

Condodina, Arthur C.; Niemkiewicz, Ignatius J.; and Shinbaum, Marvin S., 3,428,275.
Cruger, Robert W.; and Michelson, Anatol, 3,429,366.
Cruger, Robert W.; Petransky, William E.; and Weiss, Melvin I., 3,433,438.
Cruger, Robert W.; Cheslock, Edward P.; Moore, Wiley I.; and Murray, James J., 3,466,598.
Durbin, Stanley H., 3,447,079.
Fredell, Gary D., 3,422,941.
Geuss, Joseph A., 3,422,662.
Helrigel, Robert Arthur, 3,479,905.
Hendricks, George Donald, 3,430,069.
Hill, Frank W., 3,473,147.
Hitch, Thomas R., 3,456,938.
Hook, Bernard K.; and Nelsen, Roger J., 3,480,180.
Hufford, James Howard, 3,433,971.
Kraft, Derald Henry; Helrigel, Robert Arthur; and Suntheimer, Robert Gordon, 3,450,038.
Kraft, Derald Henry, 3,474,656.
Lagarde, Roe Howe, 3,450,810.
Levy, Murray N.; Shinbaum, Marvin S.; and Strance, John S., 3,465,827.
Maigrot, Robert, 3,480,121.
McLeod, Robert B., 3,441,684.
McLeod, Robert B., 3,460,057.
Michelson, Anatol, 3,422,658.
Michelson, Anatol, 3,426,835.
Michelson, Anatol, 3,427,851.
Michelson, Anatol, 3,427,854.
Michelson, Anatol, 3,427,855.
Michelson, Anatol, 3,446,270.
Michelson, Anatol, 3,456,713.
Michelson, Anatol, 3,456,893.
Michelson, Anatol, 3,461,950.
Michelson, Anatol, 3,462,134.
Michelson, Anatol, 3,465,610.
Niemkiewicz, Ignatius John, 3,484,061.
Pim, Norman Lester, 3,441,148.
Riblett, Harry C., Jr., 3,446,461.
Ringler, John S., 3,446,499.
Ross, Sheldon I., 3,479,887.
Samuelson, Robert W., 3,457,430.
Schaeffer, Robert Dale, 3,461,794.
Sexton, Harvey E., 3,465,850.
Sherwood, William George, 3,446,450.
Shinbaum, Marvin S.; and Strance, John S., 3,430,481.
Snyder, Robert Raymond, 3,436,697.
Strance, John Sherman, 3,422,650.
Strance, John Sherman, 3,474,989.
Suntheimer, Robert G., 3,451,291.
Szentaszloi, Alexander; and Weiss, Melvin I., 3,461,951.
Thompson, Charles S., 3,474,507.
Vandemore, James J.; and Henry, Donald E., 3,466,472.
Vickers, Robert V., 3,447,795.
Wagner, William S., 3,462,052.
Weld, Foster E., 3,430,231.
Weld, Foster E., 3,435,413.
Weld, Foster E., 3,440,608.
Weld, Foster E., 3,448,443.
Weyant, Valone V., 3,440,915.
Winslow, Joseph R., 3,428,131.

Bliss, E. W., Company of Canada Ltd.: *See*—
Hewson, Clifford Bruce, 3,478,200.

Bliss, E. W.,Company: *See*—
Burke, Harry T.; and Andrews, Ralph Lowye, 3,428,166.
Kraft, Derald Henry, 3,433,512.

Bliss, George N., to Diamond International Corporation. Method and system for transferring heat-activated labels. 3,434,902, 3-25-69, Cl. 156-230.

Bliss, George N.: *See*—
Peppler, William S.; Bliss, George N.; and Planck, Norman A., Jr.,3,478,703.

Bliss, Gordon L., to Whitin Machine Works, Inc. Godet roll. 3,484,581, 12-16-69, Cl. 219-469.

Bliss, John Llewelyn: *See*—
Allen, Cyril Joseph; Bliss, John Llewelyn; and Millar, Ian David Balfour,3,443,024.

Bliss, Norman Stanley, to International Standard Electric Corporation. Cable eccentricity control. 3,449,989, 6-17-69, Cl. 82-20.

Blitchington, Frank H., Jr., to Western Electric Company, Incorporated. Method of and an apparatus for determining a specific point or line. 3,435,335, 3-25-69, Cl. 324-34.

Blitchington, Frank H., Jr.; and Harris, Richard A., to Western Electric Company, Incorporated. Apparatus for positioning a workpiece to a line a cavity therein with a light beam. 3,448,280, 6-3-69, Cl. 250-227.

Blitz, Daniel, to Sanders Associates, Inc. Signal recognition apparatus having improved false response rejection capability and method for providing same. 3,439,333, 4-15-69, Cl. 340-146.1

Blitz, Melvin H.; Brown, Donald W.; and Black, Guy, to Sylvania Electric Products, Inc. Adaptive training systems and apparatus. 3,460,270, 8-12-69, Cl. 35-6.

Blivice, Sidney L.: *See*—
Cohen, David J.; and Blivice, Sidney L.,3,457,647.
Cohen, David J.; and Blivice, Sidney L.,3,459,335.

Blix, Weltzin B., Jr., to Nordberg Manufacturing Company. Two-way rail anchor. 3,482,779, 12-9-69, Cl. 238-315.

Bliznak, Bedrich V. Cable-cutting pliers with leading tooth. 3,461,555, 8-19-69, Cl. 30-254.

Bloch, Alfred; and Messores, Arthur S., to Ethicon, Inc. Silk suture. 3,424,164, 1-28-69, Cl. 128-335.5

Bloch, Claude; Gosse, Gerard; and Tamalet, Michel, to Societe Anonyme Heurtey. Combustion plants, notably for generators of electric current by magneto hydrodynamic effect. 3,470,397, 9-30-69, Cl. 310-11.

Bloch, Godfrey. Fabric floor surface and floor covering. 3,461,024, 8-12-69, Cl. 161-66.

Bloch, Herman S., to Universal Oil Products Company. Catalytic dehydrogentation of paraffinic hydrocarbons at high space velocity. 3,448,165, 6-3-69, Cl. 260-683.3

Bloch, Herman S., to Universal Oil Products Company. Process for the preparation of normal mono-olefins. 3,448,166, 6-3-69, Cl. 260-683.3

Bloch, Herman S., to Universal Oil Products Company. Waste gas oxidation process using catalyst comprising variable density activator. 3,458,276, 7-29-69, Cl. 23-2.

Bloch, Herman S., to Universal Oil Products Company. Preparation of normal mono-olefins. 3,459,822, 8-5-69, Cl. 260-671.

Bloch, Herman S., to Universal Oil Products Company. Apparatus for continuous drying of moist fluids. 3,474,023, 10-21-69, Cl. 204-265.

Bloch, Herman S., to Universal Oil Products Company. Selective catalyst dehydrogenation of a mixture of normal paraffin hydrocarbons. 3,474,156, 10-21-69, Cl. 260-683.3

Bloch, Herman S.; and Schmerling, Louis, to Universal Oil Products Company. Modification of polyolefinic resins. 3,445,445, 5-20-69, Cl. 260-93.7

Bloch, Moshe Rudolf; Schnerb, Isaac; and Kenat, Joachim, to Dead Sea Works Limited. Decomposition of ilmenite. 3,484,198, 12-16-69, Cl. 23-200.

Bloch, Moshe Rudolf: *See*—
Perlmutter, Shmuel; and Bloch, Moshe Rudolf,3,466,161.

Bloch, Peter K.: *See*—
Soloff, Robert S.; Jacke, Stanley E.; and Bloch, Peter K.,3,440,117.

Bloch, Rene; Katchalsky, Aharon; Kedem, Ora; and Vofsi, David, to Yeda Research and Development Co., Ltd. Method of separating metal ions. 3,450,630, 6-17-69, Cl. 210-22.

Bloch, Rene; Vofsi, David; Kedem, Ora; and Katchalsky, Aharon, to Yeda Research and Development Co., Ltd. Ion specific membranes. 3,450,631, 6-17-69, Cl. 210-22.

Bloch, Rupert. Process for a linear analysis of surfaces of structurally heterogeneous metallic or non-metallic substances. 3,473,023, 10-14-69, Cl. 250-49.5

Blocher, Thomas J.: *See*—
Reynal, Thomas J.; and Blocher, Thomas J.,3,462,758.

Blochl, Walter, to FMC Corporation. Fluoroalkyltin compounds. 3,423,443, 1-21-69, Cl. 260-429.7

Blochl, Walter, to FMC Corporation. Fluoroorgano silicon compounds. 3,450,738, 6-17-69, Cl. 260-448.8

Block, Aleck, to Merit Products, Inc. Method of fabricating an abrasive wheel. 3,466,816, 9-16-69, Cl. 51-336.

Block, Aleck, to Merit Products, Inc. Rotary abrasive device. 3,486,276, 12-30-69, Cl. 51-335.

Block, Barry: *See*—
Dicke, Robert H.; Block, Barry; and Weber, Joseph,3,424,006.

Block, Burton Peter: *See*—
King, James Ping; and Block, Burton Peter,3,449,367.
King, James Ping; Saraceno, Anthony Joseph; and Block, Burton Peter,3,483,143.
Nannelli, Piero Luigi; and Block, Burton Peter,3,487,095.

Block, Burton Peter; and Dahl, Gerd Helmut, to Pennsalt Chemicals Corporation. Process for titanyl phosphinate polymers. 3,457,195, 7-22-69, Cl. 260-2.

Block, Charles F. Mailbox mounting device. 3,465,994, 9-9-69, Cl. 248-130.

Block, Charles; and Bauer, Jerome. Hair curling apparatus. 3,473,004, 10-14-69, Cl. 219-222.

Block, Charles; and Mintz, Leon J. Inventory control system. 3,478,316, 11-11-69, Cl. 340-147.

Block, Dale G.: *See*—
Towle, Jack C.; Du Rose, Arthur H.; Meek, William H., Jr.; and Block, Dale G.,3,428,536.

Block Engineering, Inc.: *See*—
Mertz, Lawrence N., 3,469,902.
Mertz, Lawrence N., 3,469,923.
Young, Niels O., 3,453,687.
Young, Niels O., 3,470,329.

Block, Franz-Rudolf: *See—*
Schenck, Hermann; Wenzel, Werner; and Block, Franz-Rudolf,3,469,969.
Block, Fred B.; and Clarke, Frank H., Jr., to Geigy Chemical Corporation. Derivatives of 5-hydroxyalkyl-6,7-benzomorphans. 3,480,638, 11-25-69, Cl. 260-294.3
Block, Fred B.: *See—*
Clarke, Frank H., Jr.; and Block, Fred B.,3,449,331.
Clarke, Frank H., Jr.; and Block, Fred B.,3,449,332.
Block, Fred G.; and Hall, William B., to Radio Corporation of America. Heat-sensitive seal for thermionic converters. 3,426,220, 2-4-69, Cl. 310-4.
Block, Harry W.; Adams, Joan M.; and Finucane, Thomas P., to General Foods Corporation. Artificially sweetened fruit-flavored product. 3,476,571, 11-4-69, Cl. 99-130.
Block, Harry W.; and Henshall, Neal, to General Foods Corporation. Process for preparing prelightened instant coffee compositions. 3,458,319, 7-29-69, Cl. 99-71.
Block, M Sabel; Sidbury, Melvin D.; and Reich, Melvin F., to Lorillard P., Company, Inc. Method and apparatus for making reconstituted tobacco. 3,467,109, 9-16-69, Cl. 131-140.
Block, Paul E., to Warner Electric Brake & Clutch Company. Fill break detector for a loom. 3,480,048, 11-25-69, Cl. 139-374.
Block, Seymour S.; and Darley, Merrill M., to Allied Chemical Corporation. Combatting gram-positive bacteria with dodecachlorooctahydro- 1,3,4-metheno-2H-cyclobuta (cd) pentalene; decachlorooctahydro-1,3,4-metheno-2H- cyclobuta (cd) pentalen-2-one, and certain of their derivatives. 3,448,194, 6-3-69, Cl. 424-313.
Blocked Iron Corporation: *See—*
Imperato, Louis George, 3,437,474.
Blocker, Truman G., Jr.: *See—*
Hargest, Thomas S.; Artz, Curtis P.; Thompson, Charles D.; and Blocker, Truman G., Jr.,3,428,973.
Blodgett, Edwin O., to Friden, Inc. Serial character matrix page printer. 3,426,880, 2-11-69, Cl. 197-1.
Blodgett, Edwin O., to Friden, Inc. Tabulating card reader card drive structure. 3,432,644, 3-11-69, Cl. 235-61.11
Blodgett, Edwin O., to Friden, Inc. Coil clutch with latch and position brake. 3,434,576, 3-25-69, Cl. 192-12.
Blodgett, Edwin O., to Friden, Inc. Bidirectional tape drive mechanism. 3,439,852, 4-22-69, Cl. 226-51.
Blodgett, Francis E.: *See—*
Sieracki, Leonard M.; Campagnuolo, Carl J.; and Blodgett, Francis E.,3,444,876.
Blodinger, Jack: *See—*
Apelian, Henry M.; and Blodinger, Jack,3,459,863.
Bloechl, Hanns: *See—*
Phleps, Konrad; Fruth, Franz; and Bloechl, Hanns,3,467,011.
Bloeck, Siegfried, to Swiss Aluminium Ltd. Process for producing inorganic layers of metallic articles. 3,473,971, 10-21-69, Cl. 148-6.27
Bloemendaal, John F.; and Klauss, Ralph E., to Eastman Kodak Company. Photographic shutter operating means. 3,470,808, 10-7-69, Cl. 95-59.
Bloemhard, Walter J., to Columbia Gas System Service Corporation. Apparatus for launching and extracting spheroids in underwater pipelines. 3,469,408, 9-30-69, Cl. 61-69.
Blohm & Voss A.G.: *See—*
Gallin, Constantin M., 3,438,350.
Rieprich, Willy, 3,444,836.
Rieprich, Willy, 3,456,612.
Sprengel, Heinz Ferdinand Johannes, 3,446,363.
Van Riet, Josef H.; Stummer, Wilfried; Sandmann, Fritz; and Gallin, Constantin, 3,440,990.
Blohm, Robert. Magnetic stepping mechanism, especially for the feeding movements of grinding machines. 3,434,361, 3-25-69, Cl. 74-142.
Blohm, Robert. Fall-through barrier for threaded spindles. 3,464,164, 9-2-69, Cl. 51-168.
Bloise, George N. Wheel suspension and steering mechanism. 3,479,050, 11-18-69, Cl. 280-95.
Blok, Dirk Evert, to Hunter Douglas International Ltd. Facade cladding, in particular for a bungalow. 3,453,794, 7-8-69, Cl. 52-466.
Blom, Kenneth M.; and Ramirez, Carmen L., to Butler Manufacturing Company. Brace rod washer. 3,438,300, 4-15-69, Cl. 85-50.
Blomberg, Gote Einar Erling. Rain cover for hatchways and the like. 3,461,891, 8-19-69, Cl. 135-6.
Blomberg, Jarl Joel: *See—*
Ekstrom, Gosta Ivar; and Blomberg, Jarl Joel,3,451,492.
Blomborg, Karl Georg, to Aktiebolaget Blomborgs Mekaniska. Tilting chair. 3,464,663, 9-2-69, Cl. 248-373.
Blomdahl, Floyd A.: *See—*
Reinke, John F.; Schlicke, Heinz M.; and Blomdahl, Floyd A.,3,435,387.
Blome, James C.: *See—*
Sargent, John C.; Blome, James C.; Tims, Walter D.; and Mills, John P.,3,475,262.
Blomecke, Werner; Freystein, Wolfgang; and Gasper, Herbert, to Gusstahlwerk Wittmann AG. Drag shoe for railroad cars. 3,450,061, 6-17-69, Cl. 104-259.
Blomet, Jacques: *See—*
Cadeillan, Jean, 3,424,148.
Blomeyer, Friedrich; and Oertel, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Process for preparing substantially anhydrous polyurethane compositions using an organic sulfonyl monoisocyonate. 3,479,325, 11-18-69, Cl. 260-77.5
Blomgren, Archie H. Scaffold apparatus. 3,486,579, 12-30-69, Cl. 182-178.
Blomgren, Lars; and Johansson, Ake, to Aktiebolaget Svenska Flaktfabriken. Ventilating apparatus for a paper machine. 3,434,224, 3-25-69, Cl. 34-114.
Blomgren, Lars; and Johansson, Ake, to Aktiebolaget Svenska Flaktfabriken. Apparatus for the ventilation of a paper machine. 3,452,446, 7-1-69, Cl. 34-114.
Blomgren, Oscar C., Jr., to Tuxco Corporation. Fuel consumption rate measurement for diesel engines. 3,423,998, 1-28-69, Cl. 73-113.
Blomgren, Oscar C., to Liquid Controls Corporation. Rotary fluid displacement device. 3,465,683, 9-9-69, Cl. 103-125.
Blommers, Elizabeth A.: *See—*
Bulbenko, George F.; Gobran, Riad H.; and Blommers, Elizabeth A.,3,479,337.
Blomquist, Alfred P., to Chrysler Corporation. Centrifugal force operated hydraulic governor. 3,426,778, 2-11-69, Cl. 137-56.
Blomsrand, John H. Connector with helically wound spring and external means for releasing the spring to cause gripping of wires. 3,440,334, 4-22-69, Cl. 174-87.
Blomstrand, John H. Connector with grooved sleeve and helically wound spring for gripping wires when released. 3,440,332, 4-22-69, Cl. 174-87.
Blomstrand, John H. Connector with helically wound spring and internal means for releasing the spring to cause gripping of wires. 3,440,333, 4-22-69, Cl. 174-87.
Blomstrand, John H. Connector with helically wound spring for gripping wires when released. 3,440,335, 4-22-69, Cl. 174-87.
Blondal, Harold: *See—*
Levi, Irving; and Blondal, Harold,3,431,299.
Blonde, Guy, to Societe Anonyme Outinord. Formwork for starter walls. 3,473,778, 10-21-69, Cl. 249-19.
Blondeel, Nicholas J. Method and apparatus for automatic chromatography. 3,474,031, 10-21-69, Cl. 210-31.
Blonder, Isaac S., to Blonder-Tongue Electronics. Transmission-line connector and the like. 3,474,390, 10-21-69, Cl. 339-99.
Blonder-Tongue Electronics: *See—*
Blonder, Isaac S., 3,474,390.
Blood, Alden Edward; Heller, James Davis; and Hagemeyer, Hugh J. Jr., to Eastman Kodak Company. Acrylonitrile-vinylidene chloride terpolymers. 3,424,731, 1-28-69, Cl. 260-80.81
Blood, Alden E.; Dworsky, Joseph E., Jr.; and Hagemeyer, Hugh J., Jr., to Eastman Kodak Company. Telomerization process. 3,429,901, 2-25-69, Cl. 260-410.9
Blood, Alden E.; Vinyard, Herschel T.; and Phillips, Glenn L., to Eastman Kodak Company. Tower reactor. 3,466,149, 9-9-69, Cl. 23-283.
Blood, Alden E.: *See—*
Statman, Max; Blood, Alden E.; and Vinyard, Herschel Thomas,3,425,798.
Blood, Raymond: *See—*
Bentley, William; and Blood, Raymond,3,434,305.
Blood, Raymond, to William Cotton Limited. Straight bar knitting machines. 3,465,548, 9-9-69, Cl. 66-148.
Start, Ernest; and Blood, Raymond,3,435,638.
Bloom, Aaron; Wilcox, Orland W.; and Mate, Peter I., to Sierra Engineering Company. Pressure compensated exhalation valve. 3,459,216, 8-5-69, Cl. 137-512.2
Bloom, Arnold L.: *See—*
Bell, William E.; and Bloom, Arnold L.,3,464,024.
Bloom, Barry M.; and Tretter, James R., to Pfizer, Chas., & Co., Inc. Novel dibenzoxepines. 3,420,851, 1-7-69, Cl. 260-333.
Bloom, Duane N.: *See—*
Stevens, Douglas N.; Bloom, Duane N.; and Bisque, Ramon E.,3,465,593.
Bloom Engineering Company, Inc.: *See—*
Bricmont, Francis H., 3,443,755.
Bloom, Henry: *See—*
Frank, Barton, 3,431,869.
Bloom, I. C., and Bloom, George I.: *See—*
Goltz, Joseph, 3,424,334.
Bloom, Joseph Lewis, to Lucas, Joseph (Industries) Limited. Linkages. 3,451,286, 6-24-69, Cl. 74-479.
Bloom, Leon M., to Bio-Lab., Inc. Method and apparatus for dissolving a slightly soluble substance in a liquid. 3,468,809, 9-23-69, Cl. 137-1.
Bloom, Martin S.: *See—*
Foster, Edward Graham; and Bloom, Martin S.,3,454,688.

Bloom, Martin S., to Imperial Chemical Industries Limited. Building panel with foam layer and methods of connecting and attaching the panel. 3,449,879, 6-17-69, Cl. 52-309.
Bloom, Martin S.; and Riley, Albert Edward, to Imperial Chemical Industries Limited. Spraying plastic coatings onto building boards or the like. 3,449,145, 6-10-69, Cl. 117-21.
Bloom, Melvin S.; and Hill, James A., to Eastman Kodak Company. Fluorescent benzazole compounds containing cyanovinylene groups. 3,458,506, 7-29-69, Cl. 260-240.
Bloom, Murray, to TRW Inc. Method of cathodically sputtering a layer of silicon having a reduced resistivity. 3,463,715, 8-26-69, Cl. 204-192.
Bloom, Murray, to TRW Inc. Sputter depositing semiconductor material and forming semiconductor junctions through a molten layer. 3,480,535, 11-25-69, Cl. 204-192.
Bloom, Myer; Enga, Eric; and Lew Hin, to Canadian Patents and Development Limited. Apparatus and method of identifying and selecting particles having a predetermined level of angular monentum. 3,484,603, 12-16-69, Cl. 250-41.9
Bloom, Stanley M., to Polaroid Corporation. Novel keto-hydroxy-peri-naphthoxazines. 3,431,260, 3-4-69, Cl. 260-244.
Bloom, Stanley M.; and Huyffer, Paul S., to Polaroid Corporation. Scavengers for oxidized developing agent. 3,459,548, 8-5-69, Cl. 96-3.
Bloom, Stanley M.; and Huyffer, Paul S., to Polaroid Corporation. Scavengers for oxidized developing agent. 3,482,971, 12-9-69, Cl. 96-3.
Bloom, Stanley M.; and Rogers, Howard G. Polaroid Corporation Diffusion transfer employing ring-closure to release color-providing material for transfer. 3,443,940, 5-13-69, Cl. 96-3.
Bloom, Stanley M.; and Stephens, Robert K., to Polaroid Corporation. Differential mobility of color moiety in color transfer. 3,443,939, 5-13-69, Cl. 96-3.
Bloom, Stanley M.: *See—*
Rogers, Howard G.; and Bloom, Stanley M.,3,443,943.
Bloom, Stefan A. Plural compartment capsule. 3,454,177, 7-8-69, Cl. 215-6.
Bloom, Thomas A.; and Blue, Vernon W., to Sherwin-Williams Company, The. Purification of phthalic anhydride. 3,462,461, 8-19-69, Cl. 260-346.7
Bloom, William: *See—*
Swee, Eugene; and Bloom, William,3,449,560.
Bloomberg, Fritiof M.; and Hutchins, Thomas W., to Arkansas Grain Corporation. Soapstock acidulation. 3,425,938, 2-4-69, Cl. 210-59.
Bloomer, Ward J.: *See—*
Mekler, Valentine; Sze, Morgan C.; Bloomer, Ward J.; and Bauer, William V.,3,420,656.
Bloomfield, Leo B.; Hogg, Walter R.; Coulter, Wallace H.; and Dorman, Ervin L., to Coulter Electronics, Inc. Apparatus and method for determining mean particle volume. 3,473,010, 10-14-69, Cl. 235-184.
Bloomfield Manufacturing Co.: *See—*
Brown, Angus M., 3,432,074.
Bloomquist, Arnold E.; Sedor, Edward A.; and Slagel, Robert C., to Ashland Oil & Refining Company. Hydroxy substituted aminimides. 3,485,806, 12-23-69, Cl. 260-80.3
Bloomquist, George W.: *See—*
Bahlke, Allan R.; and Bloomquist, George W.,3,479,065.
Bloomquist, George W., to FMC Corporation. Method of making race inserts. 3,423,813, 1-28-69, Cl. 29-148.4
Bloomquist, Paul R.: *See—*
Odom, James J.; Shumaker, Thomas P.; and Bloomquist, Paul R.,3,484,837.
Bloss, Ronald E., to Upjohn Company, The. Process for treating coccidiosis with dihydroactinospectacin. 3,482,023, 12-2-69, Cl. 424-283.
Blosser, Robert L., Jr., to Sperry Rand Corporation. Fluidic diode or sensor device. 3,472,258, 10-14-69, Cl. 137-81.5
Blossom, James H., to Ped Inc., mesne. Time-tone data transmission system. 3,472,965, 10-14-69, Cl. 179-2.
Blough, Arthur K.: *See—*
Park, Francis W.; Blough, Arthur K.; Noll, Stanley Darwin; Delfeld, William F.; Kraus, George I.; and Kraus, Robert,3,439,794.
Blough, Ronald S., to Fairfield Engineering and Manufacturing Company. Aerator for sewage treatment systems. 3,452,873, 7-1-69, Cl. 210-219.
Blough, Ronald S.; and Gehlbach, Albert E., to Fairfield Engineering and Manufacturing Company. Mold for making slotted concrete floors for animal houses. 3,469,816, 9-30-69, Cl. 249-118.
Blount, Charles, Jr. Self-supporting luggage unit. 3,437,181, 4-8-69, Cl. 190-43.
Blount, Charles, Jr.; and Niepraschk, Arno, to United Piece Dye Works. Method and apparatus for high-temperature dyeing or finishing of a fabric material. 3,477,073, 11-11-69, Cl. 8-149.1
Blount, Floyd E., to Mobil Oil Corporation. Erosion protection for wells. 3,470,952, 10-7-69, Cl. 166-242.
Blount, Lester L.; and Thomas, Leonard L., to L & L Laboratories. Tar removing cigarette holder and disposable filter cartridge therefor. 3,472,238, 10-14-69, Cl. 131-187.
Blount, William W., Jr.; Gibson, Roger E.; and Tholstrup, Clarence E., to Eastman Kodak Company. Stabilization of polyolefins with oxalyldihydrazides. 3,440,210, 4-22-69, Cl. 260-41.
Blout, Elkan R.; Cohen, Saul G.; Green, Milton; and Simon, Myron S., to Polaroid Corporation. Azo compounds containing dihydroxyphenyl groups and oxalyl ester groups. 3,429,872, 2-25-69, Cl. 260-162.
Blow, James H., Jr., to Xerox Corporation. Microfilm copier double input. 3,439,983, 4-22-69, Cl. 355-8.
Blower, Kenneth E.: *See—*
Isley Ralph E.; and Blower, Kenneth E.,3,458,617.
Blowers, Ivan L., to Kal-Equip Company. Wide swing moving magnet meter having first and second winding with parallel spaced axes. 3,441,856, 4-29-69, Cl. 324-146.
Bloxsom, Daniel E., Jr. Stringed musical instrument. 3,447,411, 6-3-69, Cl. 84-264.
Bloxsom, Daniel Edgar, Jr.; and Rhodes, Barry V. Micrometeorite shower creating apparatus and method. 3,479,857, 11-25-69, Cl. 73-12.
Blubaum, Werner, to Maschinenfabrik Kapp & Co. Device with adjustable templet for dressing profiled grinding wheels. 3,434,464, 3-25-69, Cl. 125-11.
Bluck, Raymond M., to Product & Process Development Associates, Inc. High speed bias weaving and braiding. 3,426,804, 2-11-69, Cl. 139-11.
Blue, John, Company: *See—*
Blue, John; Riddle, Carl B.; and Horton, Donelson B., 3,472,454.
Horton, Donelson B.; and Downing, Harvey T., 3,451,252.
Horton, Donelson B.; and Nunn, Earnest W., 3,478,967.
Blue, John, Company, Incorporated: *See—*
Horton, Donelson B.; and Cagle, Eugene C., 3,435,846.
Blue, John; Riddle, Carl B.; and Horton, Donelson B., to Blue, John, Company, a division of Subscription Television, Inc. Low volume sprayer system. 3,472,454, 10-14-69, Cl. 239-77.
Blue, Robert D.: *See—*
Juckniess, Paul R.; and Blue, Robert D.,3,477,876.
Blue, Sidney D., to Reeves Brothers, Inc. Carpet underlay and method of making the same. 3,441,464, 4-29-69, Cl. 161-67.
Blue, Vernon W.: *See—*
Bloom, Thomas A.; and Blue, Vernon W.,3,462,461.
Blueberry Equipment, Inc.: *See—*
Ganger, Ronald N., 3,485,027.
McKibben, Horace E., 3,482,383.
Bluegrass Engineering & Mfg., Inc.: *See—*
Fischer, Jack N.; and Manning, William J., 3,424,132.
Blues, Ernest Thomson, to Imperial Chemical Industries Limited. Electrochemical process. 3,477,922, 11-11-69, Cl. 204-59.
Bluestein, Ben A., to General Electric Company. Organopolysiloxane compositions. 3,435,000, 3-25-69, Cl. 260-45.75
Bluestein, Ben A., to General Electric Company. Method for making cyanoalkyl-substituted organopolysiloxanes. 3,448,076, 6-3-69, Cl. 260-46.5
Bluestein, Ben A., to General Electric Company. Carbalkoxyalkyl-containing organopolysiloxanes. 3,464,955, 9-2-69, Cl. 260-46.5
Bluestein, Bernard R.: *See—*
Bluestein, Claire; Lauze, Wilfrid L.; and Bluestein, Bernard R.,3,428,564.
Bluestein, Claire; Lauze, Wilfrid L.; and Bluestein, Bernard R., to Witco Chemical Company, Inc. Stable highly basic dispersions of calcium compounds in liquid lubricating oils. 3,428,564, 2-18-69, Cl. 252-33.
Bluff Creek Industries,: *See—*
Murphy, Thomas L., Jr., 3,425,897.
Bluhm, Elmer, to General Motors Corporation. Fuel injection nozzle assembly. 3,460,760, 8-12-69, Cl. 239-132.3
Bluhm, Harold F., to Atlas Chemical Industries, Inc. Ammonium nitrate emulsion blasting agent and method of preparing same. 3,447,978, 6-3-69, Cl. 149-2.
Bluhm, Harold F.; and Gehrig, Neil E., to Atlas Chemical Industries, Inc. Gelled nitric acid blasting composition and method of preparing same. 3,447,979, 6-3-69, Cl. 149-19.
Blum, Albert. Centrifugal pump. 3,447,475, 6-3-69, Cl. 103-111.
Blum, Bernard; Gowen, James R.; and Schwartzenberg, John W., to Leeds & Northrup Company. Process measurement system for basic oxygen refining of steel. 3,441,725, 4-29-69, Cl. 235-193.
Blum, Bernard; and Schwartzenberg, John W., to Leeds & Northrup Company. Estimated tap temperature calculator for basic oxygen furnace. 3,450,867, 6-17-69, Cl. 235-151.3
Blum, Bernard: *See—*
Schwartzenberg, John W.; and Blum, Bernard,3,475,599.
Blum, Frederick J., Jr.: *See—*
Komendowski, Henry; and Blum, Frederick J., Jr.,3,460,420.
Blum, Henry L., to Montres Yema S.A. Watch for yachting and underwater use. 3,427,800, 2-18-69, Cl. 58-126.
Blum, Howard F. Combined walking cane and shovel. 3,456,663, 7-22-69, Cl. 135-47.

Blum, Jacques: *See—*
Boucraut, Michael; Toth, Imre; and Blum, Jacques,3,463,553.
Blum, Jean: *See—*
Rohrbach, Philippe; and Blum, Jean,3,485,924.
Blum, Josef; and Filz, Charles J., to Sorvall, Ivan Inc. Cell washing centrifuge. 3,420,437, 1-7-69, Cl. 233-26.
Blum, Louis; and Horgan, William J., Jr. Handrail. 3,441,253, 4-29-69, Cl. 256-65.
Blum, Louis; and Horgan, William J., Jr. Handrail post fitting. 3,469,823, 9-30-69, Cl. 256-65.
Blum, Oscar A., to Tenneco Chemicals, Inc. Method for the recovery of hydroxy aromatic carboxylic acids. 3,468,942, 9-23-69, Cl. 260-520.
Blum, Paul, to Societe Lyonnaise de Plomberie Industrielle. Fireproof shielded containers for radioactive materials. 3,466,662, 9-9-69, Cl. 250-106.
Blum, Pierre; and Devillard, Jacques, to Commissariat a l'Energie Atomique. Device for continuous casting of refractory materials. 3,442,321, 5-6-69, Cl. 164-250.
Blum, Raymond T.; and Zak, Theodore J., to Bausch & Lomb, Incorporated. Lens surfacing machine for forming both surfaces of a lens simultaneously. 3,444,652, 5-20-69, Cl. 51-89.
Blum, Robert Morris; and Hollander, Milton Bernard, to Caterpillar Tractor Company. Friction welding. 3,484,926, 12-23-69, Cl. 29-470.3
Blum, Walter: *See—*
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,570.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,571.
Blumberg, Georg: *See—*
Hayes, Arthur W., 3,481,256.
Blumberg, Murray: *See—*
Carlbom, Marshall B., 3,447,635.
Blumberg, Ruth: *See—*
Baniel, Avraham; Blumberg, Ruth; and Alon, Alexander,3,433,592.
Blumbergs, John H.: *See—*
Diamond, Louis H.; and Blumbergs, John H.,3,475,493.
Mac Kellar, Donald G.; Blumbergs, John H.; and von Falkenstein, Rainer,3,485,869.
MacKellar, Donald G.; Blumbergs, John H.; and von Falkenstei, Rainer,3,462,480.
Blumcraft of Pittsburgh: *See—*
Horgan, William J., Jr., 3,452,700.
Horgan, William J., Jr., 3,481,302.
Blume, Alan E., to United States of America, Army. Thermionic conversion of microwave energy to direct current. 3,432,690, 3-11-69, Cl. 310-4.
Blume, Horst K., to Phoenix Precision Instrument Company. Liquid chromatographic column. 3,440,864, 4-29-69, Cl. 73-61.1
Blume, Peter, to U.S. Philips Corporation. Magnetic core commutator circuit. 3,444,389, 5-13-69, Cl. 307-88.
Blume, Peter, to U.S. Philips Corporation, mesne. Electronic switch for the rapid switching off and on again of current-conveying coils. 3,467,894, 9-16-69, Cl. 317-123.
Blume, Roc Calvin, to Du Pont de Nemours, E. I., and Company. Process for producing α,α, dimethyl-β- halopropionic acids. 3,432,548, 3-11-69, Cl. 260-539.
Blume, Roe C., to Du Pont de Nemours, E. I., and Company. β-Propionic acids,β-propiolactones, and polymers thereof. 3,471,454, 10-7-69, Cl. 260-78.3
Blume, Willi, to Bosch, Robert, G.m.b.H. Miniaturized electrical machine construction. 3,450,907, 6-17-69, Cl. 310-42.
Blumel, Harald: *See—*
Berg, Gerhard; Blumel, Harald; and Glathe, Manfred,3,476,642.
Blumel, Harald, to Chemische Werke Huls Aktiengesellschaft. Unsaturated ethylene-propylene rubbers stabilized with N,N-substituted diamines. 3,436,370, 4-1-69, Cl. 260-45.9
Blumen, Marjorie A. K., to McConnell-Blumen & Associates. Measuring and dispensing closure. 3,424,355, 1-28-69, Cl. 222-450.
Blumenberg, Horst H., to Motorola, Inc. Apparatus and method for supporting filamentary heaters in an electron gun assembly. 3,462,634, 8-19-69, Cl. 313-271.
Blumenberg, Karl E.: *See—*
Andrew, Bertha M.; and Blumenberg, Karl E.,3,459,575.
Blumenfeld, Georg; and Schade, Gerhard, to Chemische Werke Witten G.m.b.H. Linear thermoplastic polyesters. 3,424,726, 1-28-69, Cl. 260-75.
Blumenfeld, Henry A.; Pandolfi, Francis P.; and Sun, Chih-Ree, to United States of America, Atomic Energy Commission. Minimum ionization particle detector produced by gamma ray irradiation. 3,430,043, 2-25-69, Cl. 250-83.3
Blumenfeld, Leo, to Micoa, Inc. Tambourine jingle rim supporting and actuating mechanism. 3,481,239, 12-2-69, Cl. 84-418.
Blumenkranz, James J., to Susquehanna Corporation, The. Power unit. 3,465,126, 9-2-69, Cl. 219-482.
Blumenkranz, James J.; and Wise, Eugene H., to Susquehanna Corporation, The. Plastic article severing and insulating apparatus. 3,462,890, 8-26-69, Cl. 52-1.
Blumenstein, Carl R.: *See—*
Solomon, Frank; Zeilicof, Frederica; Thompson, Lee V.; and Blumenstein, Carl R.,3,481,773.
Blumenthal, Bernard S.: *See—*
Levine, Aaron M.; and Blumenthal, Bernard S.,3,455,153.
Blumenthal, Ernesto. Lifting doors. 3,484,992, 12-23-69, Cl. 49-203.
Blumenthal, Jack H., to International Flavors & Fragrances Inc. Unsaturated aldehydes and alcohols. 3,463,818, 8-26-69, Cl. 260-601.
Blumenthal, Jack H., to International Flavors & Fragrances Inc.Process for preparing α,3,3-trimethy -cyclohexane methyl alkanoates. 3,487,102, 12-30-69, Cl. 260-497.
Blumenthal, Jack H., to International Flavors & Fragrances Inc. Preparation of dihydromyrcenol. 3,487,118, 12-30-69, Cl. 260-631.5
Blumenthal, John: *See—*
Neumann, Donald F.; Blumenthal, John; Vance, Robert S.; and Dand, Edward C.,3,453,610.
Blumenthal, Reinhard: *See—*
Schneider, Walter; Reincke, Joachim; Blumenthal, Reinhard; Tschatzki, Lothar; and Kagelmann, Manfred,3,470,963.
Blumer, Armin, to Maschinenfabrik und Giesserei Netstal AG. Plural magnet operated poppet valve. 3,447,776, 6-3-69, Cl. 251-65.
Blumer, Armin, to Maschinenfabrik und Giesserei Netstal AG. Injection mold closure device. 3,452,399, 7-1-69, Cl. 18-30.
Blumhardt, Harold. Automatic concave release device. 3,454,014, 7-8-69, Cl. 130-27.
Blumrich, Josef Franz; and Crawford, Rondal G. Docking structure for spacecraft. 3,443,773, 5-13-69, Cl. 244-1.
Blundel, Brian F., to Roto-Finish Limited. Surface treatment of workpieces. 3,435,565, 4-1-69, Cl. 51-313.
Blundell, Alan John, to Associated Electrical Industries Limited. Semi-conductor device providing hermetic seal and electrical contact by spring pressure. 3,474,302, 10-21-69, Cl. 317-234.
Blunden, Donald J., to Whitehead & Kales Company. Deck section lock structure. 3,426,704, 2-11-69, Cl. 105-368.
Blunden, Donald J., to Whitehead & Kales Company. Vehicle tiedown structure. 3,473,487, 10-21-69, Cl. 105-369.
Blundy, Peter Desmond: *See—*
Simpson, Malcolm Patrick; Hardwick, William Horton; Blundy, Peter Desmond; and Morris, David Rowland,3,431,071.
Blunk, Boyde W.; and Owen, Frank, III, to M&K Leasing Co. Cotton retrieving attachment. 3,433,004, 3-18-69, Cl. 56-119.
Blunschi, Willard S., Sr.; and Chapman, Augustus H., to Lockheed Aircraft Corporation. Door assembly for cargo aircraft. 3,424,411, 1-28-69, Cl. 244-137.
Blunt, Harry W., to Hercules Incorporated. Colloidally dispersible α-olefin copolymers. 3,475,369, 10-28-69, Cl. 260-33.6
Blunt, Owen T. Device for boxing shotgun shells. 3,479,796, 11-25-69, Cl. 53--390
Blunt, Robert M.; and Keitel, Philip J., to Colorado Seminary. Method of producing a green flame by aspirating trimethyl borate. 3,453,157, 7-1-69, Cl. 149-22.
Blurton, Lloyd N. Spot welder. 3,445,618, 5-20-69, Cl. 219-90.
Blurton, Michael A. S., to University of Illinois Foundation, The. Automatic fare collection system. 3,483,361, 12-9-69, Cl. 235-61.6
Blutinger, Bernhard: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,278.
Bly, Donald A., to Veeder Industries Inc. Fluid delivery control system. 3,478,856, 11-18-69, Cl. 194-13.
Blyakher, Lev Abramovich: *See—*
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovitch; and Khaidurov, Leonid Konstantinovich,3,467,437.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,438.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,439.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razemerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,477,301.
Blytas, George C.; Bell, Edward R.; and Dunlop, Arthur K., to Shell Oil Company. Olefin separation by copper sulphate complexing. 3,449,240, 6-10-69, Cl. 208-308.
Blyth, Randolph C.: *See—*
Brignac, Edmond P.; and Blyth, Randolph C.,3,474,773.
Blythe, Alan Avery; and Lachmann, Victor Gustav, to Handley Page Limited. Manufacture of aerodynamic structures. 3,429,023, 2-25-69, Cl. 29-404.
Blythe, Allan L., to Canadian Westinghouse Company, Limited. Electrical control systems with stabilizing control means. 3,477,014, 11-4-69, Cl. 322-19.

Blythe, Richard; Marshall, Alvin E.; Mitchell, Claybourne, Jr.; Oser, George T.; and Scott, Gerald C., to Bendix Corporation, The. Apparatus for infrared scanning having a variable detector aperture and a variable bandwidth amplifier. 3,448,267, 6-3-69, Cl. 250-83.3

Blythe, Richard; and Work, Edgar A., Jr., to Bendix Corporation, The. Apparatus for scanning an area with an oscillatory scanning element. 3,479,107, 11-18-69, Cl. 350-6.

Boadle, Campbell Dean. Nonlinear compensating device for making compatible a transducer and its interpretive instrument. 3,429,391, 2-25-69, Cl. 177-210.

Boalen, Kenneth C.: *See—*
Lindsay, Arwin O.; and Boalen, Kenneth C.,3,449,867.

Board, Richard G.; and Shapiro, Nelson H. Retractable safety belt apparatus and the like. 3,425,645, 2-4-69, Cl. 242-107.2

Boardman, Franklin, to Allied Chemical Corporation. Process for the preparation of tertiary amino acids. 3,457,302, 7-22-69, Cl. 260-534.

Boardman, William W., Jr.: *See—*
Bach, Ricardo O.; and Boardman, William W., Jr.,3,445,198.

Boas Box Company: *See—*
Robinson, Herman E., 3,465,944.

Boatman, James C.: *See—*
Goundry, Paul C.; and Boatman, James C.,3,470,039.

Boatman, Joe R.: *See—*
Switzer, William E., 3,445,614.

Boaz, Premakaran T., to Ford Motor Company. Process using gas inlets to laterally stretch and stabilize glass during float glass manufacturing. 3,468,650, 9-23-69, Cl. 65-91.

Boaz, Premakaran T., to Ford Motor Company. Process using stationary blades to laterally stretch glass during float glass manufacturing. 3,468,651, 9-23-69, Cl. 65-91.

Boaz, Premakaran T.: *See—*
Thompson, Robert J.; Boaz, Premakaran T.; Cholger, Herbert W.; Gray, Dorian R.; and Meyer, John H.,3,440,030.

Bobalek, Edward G.; Hart, John R.; and Fauser, Donald L., to Harris-Intertype Corporation. Cellulosic photoconductive imaging member containing carboxyl reactive groups. 3,486,889, 12-30-69, Cl. 96-1.8

Bobard, Emile. Overlapping tractor fitted with an overhanging magazine for loads, allowing a balanced distribution of these loads. 3,425,629, 2-4-69, Cl. 239-178.

Bobard, Emile. Elastically-tired wheel-reservoirs. 3,481,382, 12-2-69, Cl. 152-9.

Bobb, John S. Stephen: *See—*
Weldes, Helmut H.; Boyle, Francis A.; and Bobb, John S. Stephen,3,440,175.

Bobb, Russell V.: *See—*
Cassady, Clarence T.; and Bobb, Russell V.,3,457,760.

Bobbitt, Leonard E. Hosiery measuring and pairing apparatus. 3,476,242, 11-4-69, Cl. 209-122.

Bobeck, Andrew H.: *See—*
Baldwin, John A., Jr.; and Bobeck, Andrew H.,3,434,125.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Magnetic circuit. 3,425,035, 1-28-69, Cl. 340-166.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Rotational mode memory circuit having flux closure paths. 3,428,956, 2-18-69, Cl. 340-174.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Magnetic memory using a bipolar word pulse during a write operation. 3,447,140, 5-27-69, Cl. 340-174.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Increased amplitude domain device. 3,448,441, 6-3-69, Cl. 340-174.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Matrix load selection circuit having means for cancelling noise. 3,457,551, 7-22-69, Cl. 340-166.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation device. 3,460,104, 8-5-69, Cl. 340-174.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Magnetic inductive device comprising a body of interconnected conductors having magnetic states. 3,460,108, 8-5-69, Cl. 340-174.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Magnetic memory arrangement comprising domain wall propagation channels. 3,470,546, 9-30-69, Cl. 340-174.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. Switching crosspoint arrangement. 3,470,547, 9-30-69, Cl. 340-174.

Bobeck, Andrew H., to Bell Telephone Laboratories, Incorporated. NDRO of single domain walls in a magnetic sheet memory. 3,471,840, 10-7-69, Cl. 340-174.

Bobeck, Andrew H.; Gianola, Umberto F.; Sherwood, Richard C.; and Shockley, William, to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation circuit. 3,460,116, 8-5-69, Cl. 340-174.

Bobeck, Andrew H.; and Kaenel, Reginald A., to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation device. 3,460,112, 8-5-69, Cl. 340-174.

Bobeck, Andrew H.; and Smith, James L., to Bell Telephone Laboratories, Incorporated. Domain propagation media organized for repertory dialer operation. 3,479,654, 11-18-69, Cl. 340-174.

Bobier, Earl E.; and Webber, Milo R. Inertia impact switch. 3,474,202, 10-21-69, Cl. 200-61.45

Bobinski, Jack: *See—*
Grafstein, Daniel; Bobinski, Jack; and Fein, Marvin M.,3,458,580.

Bobkowicz, Andrew John: *See—*
Bobkowicz, Emilian; and Bobkowicz, Andrew John,3,481,132.

Bobkowicz, Emilian. Method and apparatus for making nonwoven fabrics. 3,449,187, 6-10-69, Cl. 156-161.

Bobkowicz, Emilian; and Bobkowicz, Andrew John. Textured filament yarns. 3,481,132, 12-2-69, Cl. 57-140.

Boblett, Emil V., to Ampex Corporation. Information reproducing apparatus. 3,484,753, 12-16-69, Cl. 340-173.

Bobo, Donald E. Method of evacuating and sealing a double- walled container. 3,423,817, 1-28-69, Cl. 29-421.

Bobo, William Sheppard, Jr.: *See—*
Shimp, David Alan; and Bobo, William Sheppard, Jr.,3,481,257.

Bobolts, Melbourne W.; and Simon, Louis. Guidance system for a three dimensional contouring machine. 3,453,934, 7-8-69, Cl. 90-13.2

Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich. Device for cutting moving ingots, preferably those obtained by the continuous casting method. 3,466,960, 9-16-69, Cl. 83-308.

Bobowski, George: *See—*
Shavel, John, Jr.; and Bobowski, George,3,445,518.
Shavel, John, Jr.; and Bobowski, George,3,446,804.
Shavel, John, Jr.; and Bobowski, George,3,452,048.

Bobrick Corporation, The: *See—*
Cowan, Arnold A., 3,432,217.
Cowan, Arnold A., 3,469,818.
McCray, Herbert S., 3,446,405.

Bobrick, Mitchell, to Luminous, P. N., Equipment Co. Support arms for lamps and the like. 3,426,190, 2-4-69, Cl. 240-73.

Bobrin, Marshall C., to United States of America, Navy. Submarine anomaly marker. 3,425,032, 1-28-69, Cl. 340-4.

Bobrow, Lucien, to Mr. Hanger, Inc. Garment hanger. 3,478,943, 11-18-69, Cl. 223-88.

Bobrowich, Alex: *See—*
Kahn, Elliot; and Bobrowich, Alex,3,484,990.

Bobrowsky, Alfred; and Stack, Eugene A., to Pressure Technology Corporation. Process and apparatus for forming and working metals under pressure. 3,482,424, 12-9-69, Cl. 72-60.

Bobst Champlain, Inc.: *See—*
Chesnut, William R.; and Smuts, I. Robert, 3,467,334.
Lewis, Clarence A., Jr., 3,474,311.
Spika, Wolfram, 3,486,690.

Bobula, Edward M.; Santoni, Cesar; and Russell, Raymond C., to Greif Bros. Cooperage Corporation, The. Container assembly and clamping ring therefor. 3,439,949, 4-22-69, Cl. 292-256.69

Bobzin, James E.: *See—*
Mod, George W.; Medica, Joseph J.; and Bobzin, James E.,3,470,666.

Bocard, Joseph P.; and Harvin, Richard L., to Girdler Corporation. Method of purifying closed atmospheres. 3,469,934, 9-30-69, Cl. 23-4.

Bocard, Joseph P.; Harvin, Richard L.; and Mayland, Bertrand J. Process and apparatus for the manufacture of hydrogen for fuel cells. 3,469,944, 9-30-69, Cl. 23-212.

Bocca, Alberto; and Pagani, Mario. Bordering machine. 3,475,256, 10-28-69, Cl. 156-480.

Bocca, Alberto; and Pagani, Mario. Machines for folding the edge of flexible materials, more particularly footwear insoles and the like. 3,483,579, 12-16-69, Cl. 12-24.5

Boccard, Rene. Hydropneumatic flushing cisterns. 3,466,673, 9-16-69, Cl. 4-52.

Bocckino, Harry G.; Dillon, Thomas J.; and Fisher, John F. Villiers, to Chemical Construction Corporation. Method of prilling urea. 3,450,804, 6-17-69, Cl. 264-14.

Boch, Jean Baptiste Christian: *See—*
Redel, Joseph; and Boch, Jean Baptiste Christian,3,424,798.

Boch, Walter: *See—*
Schmitt, Karl-Friedrich; and Boch, Walter,3,451,036.

Bochan, John, to General Electric Company. Tumble type washer with filter. 3,448,596, 6-10-69, Cl. 68-18.

Bochan, John, to General Electric Company. Washing machine. 3,481,164, 12-2-69, Cl. 68-4.

Bochan, John; and Pottinger, Eugene A., to General Electric Company. Dispensing arrangement for washing machine. 3,481,163, 12-2-69, Cl. 68-4.

Bochaver, Kirill Zyskovich: *See—*
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor

Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.

Bochinski, Julius H., to Beckman Instruments, Inc. Gas flow control system. 3,426,600, 2-11-69, Cl. 73-422.

Bochman, Austin Anthony. Developing tray for colour positive photographic papers. 3,465,664, 9-9-69, Cl. 95-95.

Bochman, Harry L., Jr., to Hi-Shear Corporation. Catapult release mechanism. 3,437,291, 4-8-69, Cl. 244-63.

Bochman, Harry L., Jr.; and Thompson, Hobert Kem, to Hi-Shear Corporation. Release mechanisms. 3,437,370, 4-8-69, Cl. 294-83.

Bochory, Michael. Fastening mechanism. 3,447,821, 6-3-69, Cl. 285-178.

Bochumer Eisenhutte Heintzmann & Co.: *See*—
Zywietz, Walter; Gantke, Franz; Seiz, Rudolf; Lichtenbaumer, Hans-Gunther; and Neeff, Joachim, 3,438,211.

Bock, August M. Draw bar for towing vehicles. 3,462,173, 8-19-69, Cl. 280-484.

Bock, Erich; and Rentzsch, Max, to Diehl. Practice ammunition. 3,439,619, 4-22-69, Cl. 102-92.7

Bock, Juergen K.: *See*—
Fitzpatrick, John R.; and Bock, Juergen K.,3,486,719.

Bock, Louis H.: *See*—
Herrick, Franklin W.; and Bock, Louis H.,3,454,508.

Bock, Philip. Bag opening and closing machine. 3,427,780, 2-18-69, Cl. 53-63.

Bock, Rudolf: *See*—
Meisel, Christian; Salewski, Gunter; and Bock, Rudolf,3,445,585.

Bockau, Gustav: *See*—
Meissner, Johannes; Bockau, Gustav; and Reike, Siegfried,3,437,382.

Bockelmann, Victor G., to United States of America, Navy. Parachute canopy deflation apparatus. 3,434,681, 3-25-69, Cl. 244-145.

Bockemuehl, Robert R., to General Motors Corporation. Light sensitive circuit employing a zener diode in series with the photoconductive device. 3,443,101, 5-6-69, Cl. 250-206.

Bockenstette, Kenneth R., to MS Industries, Inc. Lidded tote box. 3,463,345, 8-26-69, Cl. 220-29.

Bocker, Ernst: *See*—
Heiss, Rudolf; Bocker, Ernst; and Behrenz, Wolfgang,3,433,826.
Heiss, Rudolf; Bocker, Ernst; Behrenz, Wolfgang; and Unterstenhofer, Gunter,3,470,299.
Heiss, Rudolf; Grigat, Ernst; Bocker, Ernst; and Hermann, Gunther,3,458,639.

Bockly, Erich: *See*—
Kampfer, Helmut; Gotze, Johannes; Reister, Oskar; and Bockly, Erich,3,480,439.
Menzel, Karl-Heinz; and Bockly, Erich,3,443,954.

Bockman, Carl; Nelson, Ronald S.; and Klein, Walter A. Method of producing modified allium condiments. 3,424,593, 1-28-69, Cl. 99-154.

Bockmann, Walter: *See*—
Freytag, Helmut; Reichold, Ernst; Bayer, Otto; Bockmann, Walter; and Wagner, Jochim,3,425,985.
Reichold,Ernst; and Bockmann, Walter,3,458,481.

Bockno, Gregory C.; Da Vincii, Anthony P.; and Schappel, Joseph W., to FMC Corporation. Viscose rayon fiber and method of making same. 3,434,913, 3-25-69, Cl. 161-70.

Bockstiegel, Georg Heinrich Artur Gerhard: *See*—
Thafvelin, Karl Gunnar; Wahlberg, Yngve; and Bockstiegel, Georg Heinrich Artur Gerhard,3,462,260.

Bockwoldt, Walter H., to United States of America, National Aeronautics and Space Administration, mesne. Narrow bandwidth video. 3,470,313, 9-30-69, Cl. 178-6.

Bockwoldt, Walter H.; and Lew, Clinton, to Hughes Aircraft Company. Multiple interlace television system. 3,453,382, 7-1-69, Cl. 178-6.8

Boczar, William J.; and Davis, William C., to Motorola, Inc. Heat conductive mounting base for a semiconductor device. 3,434,018, 3-18-69, Cl. 317-234.

Bodanszky, Miklos, to Squibb, E. R., & Sons, Inc., mesne. Derivatives of vernamycin B. 3,420,816, 1-7-69, Cl. 260-239.3

Boddey, Ronald Frederick, to Foseco International Limited. Method of forming a casting mold. 3,460,606, 8-12-69, Cl. 164-137.

Boddy, Harold Albert, to Ralphs Unified Limited. Apparatus for use in shoe manufacture. 3,464,073, 9-2-69, Cl. 12-54.3

Boddy, Philip J.; and Frova, Andrea F., to Bell Telephone Laboratories, Incorporated. Optical modulation by reflection from a ferroelectric semiconductor. 3,428,811, 2-18-69, Cl. 250-199.

Boddy, Philip J.; and Frova, Andrea F., to Bell Telephone Laboratories, Incorporated. Optical modulator. 3,462,712, 8-19-69, Cl. 332-7.51

Bode, Charles H., Jr.; and Wusseles, Peter J., to United States Steel Corporation. Torch-mounting apparatus for cutting pieces of irregular shape. 3,476,373, 11-4-69, Cl. 266-23.

Bode, Charles Herbert, to Rudd-Melikian, Inc. Vending machine apparatus. 3,439,717, 4-22-69, Cl. 141-91.

Bode, Harold E. Preparation of an alcoholic dry beverage powder. 3,436,224, 4-1-69, Cl. 99-31.

Bode, Harold Eli. High purity magnesium lactate from steepwater. 3,429,777, 2-25-69, Cl. 195-48.

Bode, Helmut; and Brinkman, Rudolf, to Leybold-Heraeus GmbH & Co. KG, mesne. Two stage vacuum pump. 3,438,570, 4-15-69, Cl. 230-158.

Bode, Helmut; and Nicodemus, Joachim, to Dynamit Nobel Aktiengesellschaft. Rocket launching mount. 3,427,921, 2-18-69, Cl. 89-1.808

Bode, James Daniel, to FMC Corporation. Pyrylium salts as pickling inhibitors. 3,434,973, 3-25-69, Cl. 252-79.4

Boden, Donald W.; and Kruger, Julius F., to Emerson Electric Co. Hubring. 3,464,656, 9-2-69, Cl. 248-15.

Boden, Max J. Hellmut, to Werner & Pfleiderer. Screw conveyor. 3,428,165, 2-18-69, Cl. 198-213.

Bodenhamer, Edward R.; and Chin, William. Device for playing the game of rock-paper-scissors. 3,473,803, 10-21-69, Cl. 273-1.

Bodenheimer, Vernon B.; Smith, Jimmie H.; and Coleman, Henry C., to Continental Can Company, Inc. Method of employing trivalent ions in bleaching pulp. 3,472,732, 10-14-69, Cl. 162-79.

Bodenseewerk Perkin-Elmer & Co., G.m.b.H.: *See*—
Jentzsch, Dietrich; and Kuhne, Klaus, 3,455,657.
Jentzsch, Dietrich; and Hovermann, Werner, 3,486,304.
Reerink, Hans-Peter, 3,448,948.
Sebestyen, Nikolaus, 3,450,478.
Siess, Gerhard, 3,486,091.
Witte, Wolfgang, 3,448,276.

Bodenstedt, Wolfgang: *See*—
Konig, Hans-Joachim; Bodenstedt, Wolfgang; and Gotsmann, Ulrich,3,442,999.

Bodesheim, Ferdinand; Giessler, Wolfgang; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. N-(τ-aminoalkylene)-aminoalkyl sulfonic acids. 3,474,135, 10-21-69, Cl. 260-513.

Bodesheim, Ferdinand; Nawrath, Gunther; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Filaments, threads and fibers of polyamides from N-mono-(sulfonalkyl) alkylene diamine. 3,454,535, 7-8-69, Cl. 260-78.

Bodet, Pierre. System for synchronizing a clockwork pendulum with a reference frequency. 3,486,321, 12-30-69, Cl. 58-30.

Bodett, Peter C., to Motor Wheel Corporation. Delayed restarting circuit for compressor motor. 3,422,633, 1-21-69, Cl. 62-158.

Bodge, Clifford A., to Texas Instruments Incorporated. Interconnected multipole circuit breaker. 3,426,301, 2-4-69, Cl. 335-8.

Bodge, Clifford A., to Texas Instruments, Incorporated. Apparatus for providing instantaneous overload protection especially useful in protecting semiconductive devices. 3,435,293, 3-25-69, Cl. 317-31.

Bodin, Milton: *See*—
Baldwin, William W.; McCoy, C. Dana; Bodin, Milton; and Zinn, Leon,3,436,634.

Bodine , Albert G. Sonic method and apparatus for making and drying wood veneer and the like. 3,472,295, 10-14-69, Cl. 144-309.

Bodine, Albert G., Jr. Sonic process of placement of sand drains. 3,420,063, 1-7-69, Cl. 61-11.

Bodine, Albert G., Jr. Underground cable inserting by sonics. 3,425,232, 2-4-69, Cl. 61-72.6

Bodine, Albert G., Jr. Sonic method and apparatus for grinding rock material and the like to powder. 3,429,512, 2-25-69, Cl. 241-24.

Bodine, Albert G., Jr. Sonic method and apparatus for inserting fastening elements into plastic compliant bodies. 3,431,988, 3-11-69, Cl. 175-56.

Bodine, Albert G., Jr. Apparatus for accomplishing sonic fusion welding and the like involving variable impedance load factors. 3,439,409, 4-22-69, Cl. 29-470.3

Bodine, Albert G., Jr. Sonic vibration generator. 3,446,084, 5-27-69, Cl. 74-87.

Bodine, Albert G., Jr. Method and apparatus for gravity flow casting utilizing sonic energization. 3,447,480, 6-3-69, Cl. 164-49.

Bodine, Albert G., Jr. Method and device for mold casting utilizing sonic energization. 3,447,587, 6-3-69, Cl. 164-49.

Bodine, Albert G., Jr. Locomotive traction increased by sonic vibrations. 3,460,486, 8-12-69, Cl. 105-73.

Bodine, Albert G., Jr. Sonic subsurface soil cultivator. 3,461,969, 8-19-69, Cl. 172-1.

Bodine, Albert G., Jr. Apparatus including an orbiting-mass sonic oscillator for slip-forming concrete. 3,468,001, 9-23-69, Cl. 25-41.

Bodine, Albert G., Jr. Sonic method and apparatus for facilitating gravity flow of granular material. 3,472,431, 10-14-69, Cl. 222-196.

Bodine, Albert G. Vehicle mounted sonic shearing device having propulsion aiding means. 3,437,381, 4-8-69, Cl. 299-37.

Bodine, Albert G. Sonic process and apparatus for cleaning pipes. 3,446,666, 5-27-69, Cl. 134-1.

Bodine, Albert G. Acoustic barrier device for suppressing detonation waves in piston engine combustion chambers. 3,456,638, 7-22-69, Cl. 123-191.

Bodine, Albert G. Sonic method and apparatus for demolition of structures. 3,456,885, 7-22-69, Cl. 241-1.

Bodine, Albert G. Sonic method and apparatus for breaking crusts on agricultural soil. 3,461,970, 8-19-69, Cl. 172-1.
Bodine, Albert G. Sonic hand cutting tool utilizing sonic rectification in conjunction with double acting spring biasing. 3,468,384, 9-23-69, Cl. 173-49.
Bodine, Albert G. Method and apparatus for rock crushing utilizing sonic wave action. 3,473,741, 10-21-69, Cl. 241-30.
Bodine, Albert G. Sprayer. 3,474,967, 10-28-69, Cl. 239-102.
Bodine, Albert G. Method of sonic press fitting. 3,481,027, 12-2-69, Cl. 29-525.
Bodine, Charles M., to Signetics Corporation. Plug-in integrated circuit package and carrier assembly and including a test fixture therefor. 3,441,853, 4-29-69, Cl. 324-158.
Bodington, Frederick M., Jr. Saw sharpening machine. 3,427,903, 2-18-69, Cl. 76-37.
Bodkin, Ernest A.; and Maziuk, John, to Mobil Oil Corporation. Upgrading of naphtha. 3,432,425, 3-11-69, Cl. 208-80.
Bodmer, Arthur, to Varian International AG. Method and system for clearing repetitive voltage waveforms of statistical interferences. 3,440,631, 4-22-69, Cl. 340-174.1
Bodnar, Albert J., to Gulf Research & Development Company. Photometric gauge in which a test object is rotated about an axis disposed between a lamp means and an aperture means. 3,470,384, 9-30-69, Cl. 250-224.
Bodnar, Andrew J.: *See—*
Ricketts, Colin J.; Bodnar, Andrew J.; Braithwaite, Frederick T.; Johnson, Seward R.; and Wheeler, Ernest E.,3,484,549.
Bodner, Albert J.: *See—*
Morway, Arnold J.; and Bodner, Albert J.,3,424,678.
Morway, Arnold J.; and Bodner, Albert J.,3,433,743.
Morway, Arnold J.; and Bodner, Albert J.,3,461,070.
Bodner, Stephen E., to United States of America, Atomic Energy Commission. Method and apparatus for injecting and trapping charged particles in a magnetic field. 3,485,716, 12-23-69, Cl. 176-4.
Bodolay, John S.; Bodolay, William A.; and Bodolay, Stephen M. Combination multiple bag making and compartment bag making machine. 3,462,913, 8-26-69, Cl. 53-183.
Bodolay, Stephen M.: *See—*
Bodolay, John S.; Bodolay, William A.; and Bodolay, Stephen M.,3,462,913.
Bodolay, Stephen M.; and Bodolay, William A. Pre-packaging mechanism. 3,471,000, 10-7-69, Cl. 198-105.
Bodolay, William A.: *See—*
Bodolay, John S.; Bodolay, William A.; and Bodolay, Stephen M.,3,462,913.
Bodolay, Stephen M.; and Bodolay, William A.,3,471,000.
Bodot, Henri M. N. C.; and Langer, Robert M. G. Welding and cutting blow-lamp. 3,472,603, 10-14-69, Cl. 431-346.
Body, Ralph W., to Hercules Incorporated. Tackifier compositions for elastomeric olefin polymers. 3,474,059, 10-21-69, Cl. 260-27.
Body, William K.; Locascio, Russell J.; Rice, Harold W.; and Scott, Douglas R., to Robertshaw Controls Company. Cooking and apparatus and methods. 3,442,448, 5-6-69, Cl. 236-46.
Bodycot, Irvin Francis, to Du Pont de Nemours, E. I., and Company. Synergistic accelerator for t-butyl permaleic acid in methacrylate polymerization. 3,487,062, 12-30-69, Cl. 260-89.5
Bodzash, Maynard C.: *See—*
Antifinger, George J.; and Bodzash, Maynard C.,3,486,930.
Boe, Hans; Petersik, Peter; and Buchsenstein, Wilhelm, to Freudenberg, Carl. Process of applying adhesive to a fleece fabric. 3,471,315, 10-7-69, Cl. 117-76.
Boe, Rollin O., to Marquardt Corporation, The. Supersonic combustion nozzle. 3,451,221, 6-24-69, Cl. 60-258.
Boeder, De Forrest. Combination level and compass. 3,486,239, 12-30-69, Cl. 33-212.
Boeger, James H., to Gardner-Denver Company. Fluid operated tool with pressure indicator. 3,480,087, 11-25-69, Cl. 173-20.
Boegershausen, Robert L.: *See—*
Becker, William C.; and Boegershausen, Robert L.,3,425,324.
Boegli, Charles P.; and Steigerwald, Delbert, to Fieldstone Corporation, The. Research animal watering apparatus. 3,431,891, 3-11-69, Cl. 119-72.5
Boehler, Gabriel D.; and Foshag, William F., to Aerophysics Company. Wing rotor control apparatus. 3,439,887, 4-22-69, Cl. 244-10.
Boehler, Gabriel D.; and Foshag, William F., to Aerophysics Company. Marginal terrain vehicle. 3,446,175, 5-27-69, Cl. 115-1.
Boehler, Philippe: *See—*
Dionisotti, Jean; and Boehler, Philippe,3,442,496.
Boehm, Benjamin F.: *See—*
Musser, James G., Jr.; and Boehm, Benjamin F.,3,422,918.
Boehm, Edmund: *See—*
Pascus, Arnold W.; and Boehm, Edmund,3,482,760.
Boehm, Ernest Robert, to Stevens, J. P., & Co. Inc. Soft-feel, long-stretch, elastic braid. 3,431,814, 3-11-69, Cl. 87-2.
Boehm, George L.; and Horvath, Stephen R., Jr., to Johnson, S. C., & Son, Inc. Foam dispensing device and package. 3,422,993, 1-21-69, Cl. 222-190.
Boehm, Gilbert O.; Hoffman, Harry S., Jr.; and Williams, James H., to International Business Machines Corporation. Total internal reflection deflector. 3,463,571, 8-26-69, Cl. 350-157.
Boehm, Guenter J.: *See—*
Cox, John E.; Hasser, George L.; Boehm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F.,3,467,780.
Boehm, Guenter J., to International Telephone and Telegraph Corporation. Timing circuit. 3,440,452, 4-22-69, Cl. 307-294.
Boehm, Guenter Joachim, to International Telephone and Telegraph Corporation. Self seeking glass reed relay matrix selection system. 3,439,125, 4-15-69, Cl. 179-18.
Boehm, Helmut, to Technology Instrument Corporation of California. Microwave heating apparatus. 3,440,386, 4-22-69, Cl. 219-10.55
Boehm, Robert F.: *See—*
Hune, Ronald G.; and Boehm, Robert F.,3,470,904.
Boehme, Horst: *See—*
Brumme, Fritz; and Boehme, Horst,3,434,660.
Boehmer, Andrew P.; and Jaremus, Boubene M., to Borg-Warner Corporation. Method of making a thermoelectric assembly comprising anodizing and impregnating and coating with dimethyl silicone fluids. 3,451,904, 6-24-69, Cl. 204-38.
Boehmer, Matthew A., to Wyandotte Chemicals Corporation. Composition of improved water-glycol antifreeze and heat exchange media and process for manufacture of same. 3,445,395, 5-20-69, Cl. 252-75.
Boehmke, Gunther: *See—*
Hendricks, Udo Winfried; Tamer, Ergun; Quaedvlieg, Mathieu; Klapper, Hans; Boehmke, Gunther; and Schneider, Otto,3,451,762.
Boehmke, Thomas A., to Coilcraft, Inc. Mounted circuit element. 3,466,381, 9-9-69, Cl. 174-52.
Boehne, Dale R.: *See—*
Connoy, Eugene N.; and Boehne, Dale R.,3,435,173.
Boehringer, C. F., & Soehne G.m.b.H.: *See—*
Gal, Rudi; Haack, Erich; Stach, Kurt; Schaumann, Wolfgang; and Ritter, Klaus, 3,462,432.
Gall, Rudi; Stach, Kurt; and Voemel, Wolfgang, 3,483,193.
Haack, Erich; Rey, Hans-Georg; and Rieckmann, Peter, 3,443,903.
Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang, 3,458,628.
Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang, 3,471,614.
Kuhn, Richard; Jahn, Werner; and Dietmann, Karl, 3,475,408.
Lauer, Karl; Weber, Matthias; and Stoeck, Georg, 3,483,031.
Nelboeck-Hochstetter, Michael; and Haid, Erich, 3,475,413.
Popelak, Alfred; Lettenbauer, Gustav; Schaumann, Wolfgang; and Ribbentrop, Annemarie, 3,464,995.
Stach, Kurt, 3,438,981.
Stach, Kurt; Winter, Werner; Schaumann, Wolfgang; and Ribbentrop, Annemarie, 3,454,582.
Thiel, Max; Winter, Werner; Stach, Kurt; Schaumann, Wolfgang; and Dietmann, Karl, 3,471,472.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt, 3,462,528.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt, 3,476,742.
Boehringer, C. H., Sohn: *See—*
Linden, Gerbert; Schicke, Peter; and Korner, Hermann, 3,462,258.
Schroder, Ludwig; Thomas, Klaus; and Jerchel, Dietrich, 3,461,132.
Boehringer G.m.b.H., Gebr.: *See—*
Schumacher, Hermann, 3,426,628.
Boehringer Ingelheim G.m.b.H.: *See—*
Heider, Joachim; Machleidt, Hans; and Kobinger, Walter, 3,471,470.
Heusner, Alex; and Zeile, Karl, 3,448,109.
Heusner, Alex; Zeile, Karl; and Danneberg, Peter, 3,462,434.
Keck, Johannes; Nickl, Josef; Koss, Friedrich-Wilhelm; Schraven, Eckhard; and Beisenherz, Gerwin, 3,454,574.
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeille, Karl, 3,459,782.
Koppe, Herbert; Ludwig, Gerhard; and Zeile, Karl, 3,478,050.
Landgraf, Claus Adolf; and Seeger, Ernst, 3,475,437.
Merz, Herbert; Shroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl, 3,438,990.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl, 3,462,427.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl, 3,466,277.
Nickl, Josef; Keck, Johannes; and Engelhorn, Robert, 3,448,106.
Noll, Klaus Reinhold; Berg, Alex; Machleidt, Hans; Roethele, Werner; and Engelhardt, Gunther, 3,470,190.
Roch, Josef, 3,475,425.
Schmidt, Gunther, 3,459,737.
Seeger, Ernst; Engel, Wolfhard; and Kadatz, Rudolf, 3,457,265.

Stahle, Helmut; Koppe, Herbert; Zeile, Karl; Wolf, Martin; and Hoefke, Wolfgang, 3,462,433.
Stahle, Helmut; and Zeile, Karl, 3,468,887.
Thoma, Otto; and Zeile, Karl, 3,422,196.
Woitun, Eberhard; and Ohnacker, Gerhard, 3,475,429.
Zeile, Karl; Hauptmann, Karl Heinz; and Stahle, Helmut, 3,454,701.
Zeile, Karl; Banholzer, Rolf; Walther, Gerhard; Schulz, Werner; and Wick, Helmut, 3,472,861.
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid, 3,470,152.

Boehringer, Raymond H.: *See—*
Boylan, Jack B.; Aylesworth, Robert D.; and Boehringer, Raymond H.,3,485,754.

Boehringer, Raymond H.; Aylesworth, Robert D.; and Utz, Walter E., to Emery Industries, Inc. Synthetic ester lubricant base fluid containing a polyester thickener. 3,472,775, 10-14-69, Cl. 252-57.

Boehringer-Ingelheim G.m.b.H.: *See—*
Stahle, Helmut; Kummer, Werner; Koppe, Herbert; Zeile, Karl; Hoefke, Wolfgang; and Samtleben, Hans-Wolfgang, 3,480,630.

Boeing Airplane Company: *See—*
Beery, Dale M., 3,486,438.

Boeing Company, The: *See—*
Adams, Clarence R., 3,432,213.
Adams, Clarence R., 3,465,644.
Aichinger, Harry H., 3,478,569.
Baier, Robert J.; and Mack, John C., 3,420,072.
Baier, Robert J., 3,425,239.
Baker, Edward S., 3,421,005.
Baker, Edward S., 3,443,204.
Balderston, Harvey L., 3,466,544.
Baudat, Andre A.; and Edwards, C. John, 3,457,648.
Blakely, Carl Frederick; and Longmire, Donald E., 3,463,334.
Brame, Frank H.; and Fisher, Charles B., 3,433,439.
Brasier, Robert E., 3,435,532.
Brasier, Robert E., 3,446,560.
Bredvik, Martin, 3,425,098.
Callaway, Vernon E.; and Goralski, Leonard S., 3,439,774.
Cole, Berton A.; and Ruonavaara, Quentin F., 3,485,655.
Courter, Jack P., 3,478,904.
Dancik, Paul J., 3,439,888.
Doyle, Doris M., 3,438,735.
Ford, Robert J.; and Tarczynski, Tadeusz, 3,455,757.
Hales, Pryce N., 3,478,317.
Hallesy, Harold Walter, 3,474,519.
Harding, David G., 3,469,644.
Harting, Darrell R., 3,441,891.
Kofoid, Melvin J.; and Zieske, Paul L., 3,437,864.
Lebel, Stephen J.; and Strobelt, William E., 3,426,579.
Maestrello, Lucio, 3,472,472.
Malone, Frank Leslie, 3,441,045.
Maytone, Frank F., 3,434,455.
Nichols, Donald E., 3,463,558.
Norsworthy, Keith Harvey, 3,428,794.
Patterson, Harold W., 3,432,996.
Romero, Jacob B., 3,447,321.
Rona, Thomas P., 3,471,777.
Schwallie, Cletus R.; and Riegner, Earl I., 3,477,284.
Seglem, Henry M.; and Wimpress, John K., 3,486,720.
Stewart, David, 3,452,168.
Taylor, Murray E., 3,449,191.
van der Velden, Johannes H., 3,484,123.
Van Wyk, Jan W., 3,479,289.
Ward, Fred L.; Thompson, Edwin A.; and Ritchie, Harold D., 3,442,749.
Waterman, Gary L.; and Woodmansee, Wayne E., 3,439,525.
Weiland, Richard H., 3,457,806.
Whitener, Philip C.; Wadleigh, Robert R.; and Blattner, David G., 3,447,761.
Woodmansee, Wayne E., 3,441,513.
Woods, Weightstill W.; Martin, Dale L.; and Marshall, James K., 3,462,224.
Woods, Weightstill W., 3,483,743.
Zeller, Martin C., 3,455,272.

Boeing, Robert B., to Brunswick Corporation. Ankle tie. 3,456,366, 7-22-69, Cl. 36-58.5

Boeker, Roy A., to FMC Corporation. Well apparatus. 3,434,743, 3-25-69, Cl. 285-39.

Boekhorst, Antonius, to North American Philips Company, Inc. Circuit arrangement for producing a sawtooth current through a deflection coil and a high voltage. 3,435,279, 3-25-69, Cl. 315-27.

Boekhorst, Antonius; and Moggre, Anthonie Jannis, to U.S. Philips Corporation, mesne. Circuit arrangement for producing a sawtooth current in a deflection coil for a cathode ray tube and a high voltage. 3,458,751, 7-29-69, Cl. 315-27.

Boelter, Donald A., to General Aviation Electronics, Inc. High gain amplifier. 3,486,125, 12-23-69, Cl. 330-17.

Boemelburg, Josef: *See—*
Ibing, Guenther; Schirrmacher, Hermann; Vollmer, Herbert; Boemelburg, Josef; and Schwall, Fritz,3,434,807.

Boenig, Herman V.; and Waters, James A., Jr., to Brookpark-Royalon, Inc. Polyallyl ester modified melamine molding. 3,464,884, 9-2-69, Cl. 161-248.

Boennighausen, Richard A.; and Burch, Byron F., Jr., to General Electric Company. Variable length accumulator in a data processing system. 3,487,368, 12-30-69, Cl. 340-172.5

Boerema, Jan; and Tegel, Meindert Johan, to U.S. Philips Corporation, mesne. Semiconductor device and method of manufacture. 3,469,156, 9-23-69, Cl. 317-236.

Boerio, Alvin H.: *See—*
Beyer, Rolf R.; and Boerio, Alvin H.,3,431,455.
Goetze, Gerhard W.; and Boerio, Alvin H.,3,441,787.
Green, Martin; and Boerio, Alvin H.,3,440,478.

Boerma, Hiepke; and van der Drift, Johan, to Lever Brothers Company. Hydrogenation process. 3,472,906, 10-14-69, Cl. 260-666.

Boersma, Rintje; and Irik, Gijsbert W., to N.V. 'COQ'. Fully enclosed switching devices for high voltages. 3,485,971, 12-23-69, Cl. 200-48.

Boersma, Theo Tjalke: *See—*
Van Der Sanden, Hendrikus Cornelis Nicolaas; Veenendaal, Hendrikes Johannes; and Boersma, Theo Tjalke,3,471,294.

Boes, David J., to Westinghouse Electric Corporation. Solid lubricant composites. 3,427,244, 2-11-69, Cl. 252-12.

Boes, David J.; and Moberly, Lawrence E., to Westinghouse Electric Corporation. Electrically conductive solid lubricant members and apparatus employing them. 3,437,592, 4-8-69, Cl. 252-12.

Boes, Gunther. Heating system. 3,433,414, 3-18-69, Cl. 237-8.

Boesch, Roger; and Metivier, Jean, to Rhone-Poulenc S.A. Benzyl dichloromethyl sulphones. 3,471,570, 10-7-69, Cl. 260-607.

Boese, Arthur H. Aerial toy. 3,432,962, 3-18-69, Cl. 46-86.

Boesen, Thomas E.: *See—*
Keyes, Jack; Greene, Robert R.; and Boesen, Thomas E.,3,467,014.

Boester, Carl F. Household toilet waste disposal unit and method. 3,440,669, 4-29-69, Cl. 4-10.

Boester, Carl F. Apparatus and method for treating waste fluids. 3,487,015, 12-30-69, Cl. 210-12.

Boettcher, Alfred, to Kernforschungsanlage Julich des Landes Nordrhein-Westfalen- e.V. Nuclear reactor and method of operating same. 3,464,888, 9-2-69, Cl. 176-32.

Boettcher, Alfred, to Kernforschungsanlage Julich des Landes Nordrhein-Westfalen-e.V. Fuel element for liquid-cooled nuclear reactors. 3,472,734, 10-14-69, Cl. 176-71.

Boettcher, Benedict Andrew: *See—*
Bialko, William Frank; and Boettcher, Benedict Andrew,3,480,857.

Boettcher, Gordon E., to United States of America, Atomic Energy Commission. Reversible electrochemical coulometer. 3,428,894, 2-18-69, Cl. 324-94.

Boettcher, Harry H.: *See—*
Blattner, Ernest W.; Boettcher, Harry H.; Carter, Anthony F.; Heitmann, Arnold M.; Holt, Wainwright, Jr.; and Wilson, David G.,3,424,372.

Boettcher, Stephen A.; and Farley, James N., to Speedfam, Corporation. Lapping machine. 3,457,682, 7-29-69, Cl. 51-129.

Boettger, Guenter; Guenthert, Paul; Kindler, Hubert; and Stanger, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alkali metal salts of ethylenediamine tetraacetic acid. 3,449,414, 6-10-69, Cl. 260-534.

Boettger, Richard M.: *See—*
Marotta, Nicholas G.; Boettger, Richard M.; Nappen, Bernard H.; and Szymanski, Chester D.,3,455,838.

Boettler, Gerald L.: *See—*
Chaykowski, Michael; Boettler, Gerald L.; and Chaykowski, Michael,3,443,494.

Boettner, George B., to Corning Glass Works. Glass melting furnace. 3,420,653, 1-7-69, Cl. 65-335.

Boettner, George B., to Corning Glass Works. Flow control of molten material in a glass furnace. 3,457,059, 7-22-69, Cl. 65-161.

Boetto, Charles: *See—*
Orendorff, John W.; Boetto, Charles; and Andersson, Ingemar R.,3,436,098.

Boeye, Paul F. Freight container. 3,423,101, 1-21-69, Cl. 280--046

Boezi, Peter: *See—*
Acker, William L.; and Boezi, Peter,3,443,827.

Bofinger, Karl; Borkmann, Frank Frederick; and Stone, George Martin, to American Can Company. End feeding apparatus and method. 3,441,156, 4-29-69, Cl. 214-305.

Bogaardt, Maarten, to Reactor Centrum Nederland. Steam cooled epithermal or fast nuclear reactor. 3,425,904, 2-4-69, Cl. 176-40.

Bogaert, Frank John, to Pennsalt Chemicals Corporation. Method for forming parallel square and taper- ended flexible shafting. 3,485,079, 12-23-69, Cl. 72-376.

Bogaerts, Leo C.: *See—*
Kushmuk, Walter P.; and Bogaerts, Leo C.,3,483,757.

Bogantes, Marco A., to Kaiser Aluminum & Chemical Corporation. Anode adjusting apparatus. 3,484,856, 12-16-69, Cl. 204-297.

Bogart, Burton S., to Anchor Hocking Glass Corporation. Glass container coated with a lubricating film comprising carnauba wax and polyvinyl alcohol. 3,445,275, 5-20-69, Cl. 117-124.
Bogart, Burton S., to Anchor Hocking Glass Corporation. Polyethylene emulsions for coating glassware. 3,487,035, 12-30-69, Cl. 260-23.
Bogart, Harold N., to Ford Motor Company. Friction welding method. 3,444,611, 5-20-69, Cl. 29-470.3
Bogart, Marcel J. P., to Lummus Company, The. Process for recovering H_2S in heavy water production. 3,437,567, 4-8-69, Cl. 203-96.
Bogart, Theodore F., Jr.: *See*—
Ross, James A.; and Bogart, Theodore F., Jr.,3,463,984.
Bogdanov, Alexandr Antonovich; Pomazkova, Zinaida Serafimovna; Petrova, Valentina Vasilievna; and Zhilenko, Vasily Anatolievich. Submergible oil-filled electric motor with a protecting unit for the drive of a submergible well pump. 3,475,634, 10-28-69, Cl. 310-87.
Bogen, Morton A.; and Kantor, Leonard. Reinforcing punch for sheets. 3,441,462, 4-29-69, Cl. 156-513.
Bogenschutz, Thomas M., to Frink Snow-Plows, Inc. Blade and mold board supporting and adjusting structure for snowplows. 3,464,129, 9-2-69, Cl. 37-50.
Bogert, Bruce P.; and Hirsch, Peter, to Bell Telephone Laboratories, Incorporated. Spectrum analyzer. 3,428,893, 2-18-69, Cl. 324-77.
Bogert, Howard Z.; and Miner, Jay G., to Philco-Ford Corporation. Aperiodic arithmetic calculator. 3,447,136, 5-27-69, Cl. 340-172.5
Bogert, Howard Z.; and Miner, Jay G., to Philco-Ford Corporation. Two speed arithmetic calculator. 3,453,601, 7-1-69, Cl. 340-172.5
Bogert, Warren D.: *See*—
Gutleber, Frank S.; Levine, Elihu; Bogert, Warren D.; Silverstein, Samuel; and Altman, Harry,3,483,549.
Bogestam, Arne: *See*—
Jonsson, Per Gustaf; and Bogestam, Arne,3,482,050.
Jonsson, Per Gustaf; and Bogestam, Arne,3,487,174.
Boggild, Robert, to Echo Development Co. Telephone answering apparatus with selector and control cams on a common shaft. 3,480,731, 11-25-69, Cl. 179-6.
Boggild, Robert; and Dale, William L. Gymnastic amusement device. 3,480,274, 11-25-69, Cl. 272-60.
Boggio, F George, to Barogenics, Inc. Pre-stressed segmented containers or pressure vessels. 3,433,382, 3-18-69, Cl. 220-3.
Boggio, F. George; and Zeitlin, Alexander, to Barogenics, Inc. Frame structure. 3,479,856, 11-25-69, Cl. 72-455.
Boggs, Bernard C.: *See*—
Alexander, William E.; and Boggs, Bernard C.,3,465,315.
Boggs, Beryl A., to Allied Chemical Corporation. Yarn defect detecting device. 3,438,188, 4-15-69, Cl. 57-81.
Boggs, Beryl A., to Allied Chemical Corporation. Jig for spinnerette. 3,473,420, 10-21-69, Cl. 77-63.
Boggs, Le Roy R., to Koppers Company, Inc. Puller slip alarm and safety device. 3,438,089, 4-15-69, Cl. 18-4.
Boggs, Le Roy R., to Koppers Company, Inc., mesne. Apparatus for forming elongated articles from fiber reinforced plastic materials. 3,448,489, 6-10-69, Cl. 18-4.
Boggs, William H.; and Rousselot, George E., to International Business Machines Corporation. Method of etching and plating urea formaldehyde. 3,434,866, 3-25-69, Cl. 117-47.
Bogholtz, Richard, Jr.; and Dym, Herbert, to International Business Machines Corporation. Defect detecting scanner with output analyzed in the frequency domain. 3,452,205, 6-24-69, Cl. 250-211.
Bogl, Manfred Walter, to International Standard Electric Corporation. Switch formed by pack type or modular units. 3,454,736, 7-8-69, Cl. 200-168.
Bogle, Lewis F., to Monsanto Company. Fog resistant coating compositions. 3,437,617, 4-8-69, Cl. 260-22.
Bogle, Tommy G., to American Machine & Foundry Company. Acoustic leak detecting apparatus and method. 3,478,576, 11-18-69, Cl. 73-40.5
Bognar, Lewis L., to Corning Glass Works. Apparatus for suspending sheet glass. 3,454,298, 7-8-69, Cl. 294-118.
Bognar, Lewis L., to Corning Glass Works. Method of reforming glass face plates on a shaping mold. 3,484,225, 12-16-69, Cl. 65-103.
Bogner, Gerald Q. Rotary cutting tool. 3,481,015, 12-2-69, Cl. 29-105.
Bogner, Gunther, to Siemens Aktiengesellschaft. Web-shaped superconductor. 3,440,336, 4-22-69, Cl. 174-128.
Bogner, Gunther; and Dotzer, Richard, to Siemens Aktiengesellschaft. Superconductor having insulation at its exterior surface with an intermediate normal metal layer. 3,428,925, 2-18-69, Cl. 335-216.
Bogner, Gunther; and Dotzer, Richard, to Siemens Aktiengesellschaft. Superconductor cable surrounded by a plurality of aluminum wires. 3,428,926, 2-18-69, Cl. 335-216.
Bogner, Gunther; and Klipping, Gustav, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V., and Siemens Aktiengesellschaft. Apparatus for replenishing liquid helium in a cryostat from a storage vessel. 3,430,450, 3-4-69, Cl. 62-45.
Bogner, Gunther; and Marsing, Helmut, to Siemens Aktiengesellschaft. Refrigerating structure for cryostats. 3,436,926, 4-8-69, Cl. 62-45.
Bogner, Richard D. Dual band coplanar dipole array with disc type director. 3,440,658, 4-22-69, Cl. 343-792.5
Bogner, Richard D., to Electronics Research, Inc. Omnidirectional circularly polarized antenna. 3,474,452, 10-21-69, Cl. 343-726.
Bogosian, Arda. Optical viewing device. 3,482,896, 12-9-69, Cl. 350-4.
Bogossian, Armen: *See*—
Mackal, Henry H.; and Bogossian, Armen,3,429,338.
Bogossian, Armen; and Mackal, Henry H., to Halkey-Roberts Corporation. Mouthpiece for orally operated valve. 3,429,330, 2-25-69, Cl. 137-223.
Bogri, Tibor: *See*—
Bagli, Jehan F.; and Bogri, Tibor,3,432,541.
Bagli, Jehan F.; and Bogri, Tibor,3,455,992.
Bogue, David L., to United Aircraft Corporation. Injector. 3,479,819, 11-25-69, Cl. 60-39.74
Bogue, David. Fishing reel brake. 3,434,676, 3-25-69, Cl. 242-84.5
Bogue, Irving R., to Rogers Corporation. Heater roll. 3,471,683, 10-7-69, Cl. 219-469.
Bogumil, Walter A., to Chisholm-Ryder Company, Inc. Quick demountable screen for enclosing garage doorways and the like. 3,455,366, 7-15-69, Cl. 160-368.
Bohannon, Ida M. Shoe cleaning device. 3,445,875, 5-27-69, Cl. 15-36.
Bohannon, John D. Mechanical citrus fruit harvester. 3,485,025, 12-23-69, Cl. 56-328.
Bohannon, Philip. Wig stand. 3,479,106, 11-18-69, Cl. 312-351.
Bohannon, Ralph O., Jr., to Texas Instruments, Incorporated. Integrated circuit having matched complementary transistors. 3,473,090, 10-14-69, Cl. 317-235.
Bohannon, Ralph O., Jr.; and Stehlin, Robert A., to Texas Instruments, Incorporated. Process for fabricating monolithic circuits having matched complementary transistors and product. 3,465,215, 9-2-69, Cl. 317-235.
Bohannon, William D., Jr.; and King, Harold O., to Western Electric Company, Incorporated. Automatic wire wrapping apparatus. 3,479,720, 11-25-69, Cl. 29-203.
Bohannon, William D., Jr.: *See*—
Bellamy, William G.; Bohannon, William D., Jr.; and Etchison, John O., Jr.,3,457,616.
Bohdansky, Josef: *See*—
Grover, George M.; Busse, Claus A.; and Bohdansky, Josef,3,451,266.
Bohl, Lester E.; and Vancamp, Raymond M., to PPG Industries, Inc. Production of perchloroethylene from 1,2-dichloro- ethane by a first step chlorination followed by an oxychlorination step. 3,449,450, 6-10-69, Cl. 260-654.
Bohler, Gebr. & Co. Aktiengesellschaft: *See*—
Baumel, Anton, 3,421,890.
Baumel, Anton, 3,425,827.
Bohler, Walter: *See*—
Weinrotter, Ferdinand; Schmidt, Alfred; Muller, Walter; and Bohler, Walter,3,432,501.
Bohler, Wilhelm Valentin. Adjustable clamp. 3,467,352, 9-16-69, Cl. 248-221.
Bohlke, Edward H.; and Kramer, Don A., to Motorola, Inc. Phase detector. 3,487,168, 12-30-69, Cl. 178-69.5
Bohlmann, Edward H. Disposable tooth cleaning implement and method of making same. 3,467,979, 9-23-69, Cl. 15-244.
Bohlmann, Edward H. Orthodontic multi-purpose repositioner and oral habit conditioner. 3,478,742, 11-18-69, Cl. 128-172.1
Bohlmann, Willy F., Jr.: *See*—
Corley, Charles B., Jr.; and Bohlmann, Willy F., Jr.,3,426,842.
Bohlmark, Sven Arne: *See*—
Nomm, Mihkel; and Bohlmark, Sven Arne,3,470,813.
Bohlsen, Donald C.: *See*—
Swanberg, Stacy C.; and Bohlsen, Donald C.,3,430,496.
Bohm, Henry V.: *See*—
Houck, James R.; Bohm, Henry V.; and Maxfield, Bruce W.,3,460,063.
Bohm, Siegfried, to VEB Pentacon Dresden Kamera- und Kinowerke. Single lens reflex cameras with swinging-flap shutter. 3,472,139, 10-14-69, Cl. 95-42.
Bohm, Siegfried, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic camera with oscillating flap shutter. 3,479,946, 11-25-69, Cl. 95-60.
Bohman, Carl E., to Miehle-Goss-Dexter, Incorporated. Form roller setting and control means. 3,448,686, 6-10-69, Cl. 101-349.
Bohman, Wenzel L., to Cowles Chemical Company. Chromate conversion coatings. 3,457,124, 7-22-69, Cl. 148-6.21
Bohme Chemie Gesellschaft mit beschrankter Haftung: *See*—
Heyden, Rudi, 3,485,573.
Markert, Hans; and Heyden, Rudi, 3,442,696.
Markert, Hans; and Heyden, Rudi, 3,479,288.
Peist, Rolf, 3,457,109.
Wedell, Hans, 3,481,881.

Bohme Fettchemie G.m.b.H.: *See—*
Heyden, Rudi, 3,475,206.
Rutzen, Horst; and Lowenstein, Albert, 3,479,297.
Wedell, Hans; and Peist, Rolf, 3,421,940.

Bohme, Georg Eduard Wilhelm; and Hagen, Armin Theodor, to Gesellschaft Fur Kernforschung m.b.H. Remotely controlled manipulator. 3,482,711, 12-9-69, Cl. 214-1.

Bohmer, Hellmut: *See—*
Schmidt, Horst; and Bohmer, Hellmut,3,464,757.

Bohmer, Hellmut, to Leitz, Ernst, G.m.b.H. Panoramic telescope. 3,463,567, 8-26-69, Cl. 350-26.

Bohn Benton Inc.: *See—*
Geisman, Jerome B.; and Randmae, Rein S., 3,466,124.

Bohn, Donald I. Multi-layered magnetic shield for a magnetic vise. 3,428,305, 2-18-69, Cl. 269-75.

Bohn, Frank G. Simulated firearm with pivotally mounted whiskey glass. 3,450,403, 6-17-69, Cl. 272-1.

Bohn, Hans-Joachim; and Seidl, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of L-(-)-β- (3.4-dihydroxy-phenyl)-α-methylalanine. 3,470,233, 9-30-69, Cl. 260-473.

Bohn, Lothar; Jastrow, Horst; Leugering, Jans-Joachim; and Vetter, Hans-Joachim, to Hercules Incorporated. Copolymers of 4-methyl-pentene-1 with other olefins. 3,472,917, 10-14-69, Cl. 260-878.

Bohn, Martin C.; Brady, John F.; Spinello, John O.; and Rice, Kenneth G., to Chicago Clutch Manufacturing Co., Inc. Self adjusting clutch release bearing assmbly. 3,433,341, 3-18-69, Cl. 192-111.

Bohn, Richard E.; and Patel, Pravin B., to Sylvania Electric Products, Inc. High speed digital logic circuit having non- saturating output transistor. 3,473,047, 10-14-69, Cl. 307-215.

Bohn, Samuel. Sealing joint. 3,466,801, 9-16-69, Cl. 49-404.

Bohn, Thomas: *See—*
Schulten, Rudolf; Bohn, Thomas; Hecker, Rudolf; and Baurmann, Karl-Wilhelm,3,453,090.

Bohna, B. D., & Co.: *See—*
Hauge, Douglas O., 3,472,616.

Bohne, Hugh; and Shelton, Cecil B., to International Telephone and Telegraph Corporation. Water vapor control in vapor-solid diffusion of boron. 3,484,314, 12-16-69, Cl. 148-188.

Bohne, William C. Core grab. 3,485,388, 12-23-69, Cl. 214-1.

Bohnen, Klaus: *See—*
Gloor, Urs; and Bohnen, Klaus,3,466,162.

Bohnenblust, Clarence E., to American Telephone and Telegraph Company. Apparatus to identify conductor pairs in a multi- conductor cable by gating identification signals in response to probe detection of an energized conductor pair. 3,427,538, 2-11-69, Cl. 324-66.

Bohnet's Bakery, Mrs., Inc.:*See—*
Turner, Joe E., 3,429,712.

Bohnstedt, Charles E.; Russell, George H.; and Yoos, Harold F., to Westinghouse Electric Corporation. Rechargeable device with rotatable plug. 3,458,794, 7-29-69, Cl. 320-2.

Bohrer, Albert H., Sr. Traffic control signal. 3,435,412, 3-25-69, Cl. 340-107.

Bohrer, Byron B., to Sun Oil Company. Cracking of hydrocarbons. 3,480,689, 11-25-69, Cl. 260-683.

Bohrer, Byron B.; and Kurtz, Stewart S., Jr., to Avisun Corporation. Recovery of alpha-olefin polymers from solution. 3,431,249, 3-4-69, Cl. 260-93.7

Bohrer, Thomas C., to Celanese Corporation. Process for producing water-soluble cellulose acetate fibers. 3,482,011, 12-2-69, Cl. 264-207.

Bohy, August G., to PPG Industries, Inc. Method and apparatus for winding glass strand. 3,482,953, 12-9-69, Cl. 65-2.

Boiardi, Mario J. Facing unit with embedded fastening means capable of being unwound therefrom. 3,486,280, 12-30-69, Cl. 52-127.

Boice, Clarence L.; and Allen, Joseph Stevens, to Allen Electronics, Inc. Method of and apparatus for reproducing signals recorded on magnetic tape with head switching means. 3,476,873, 11-4-69, Cl. 178-6.6

Boice, Elvin G.; and Wong, Lip Fou, to Reynolds Metals Company. Apparatus for and method of straightening bow means in an elongated member. 3,429,169, 2-25-69, Cl. 72-297.

Boice, William K., to General Electric Company. Adjustable speed drive system with friction compensation. 3,458,791, 7-29-69, Cl. 318-327.

Boichard, Jacques: *See—*
Brossard, Bernard Pierre; Boichard, Jacques; and Gay, Michel Louis Marie Joseph,3,428,675.

Boichot, Claude: *See—*
Fournari, Pierre; Tirouflet, Jean; and Boichot, Claude,3,468,897.

Boige, Jean. Process for the industrial manufacture of hydroxocobalamin. 3,448,099, 6-3-69, Cl. 260-211.7

Boik, Arnold R., to Continental Can Company, Inc. Pressure relief score. 3,485,410, 12-23-69, Cl. 220-54.

Boik, Arnold R.; and Stec, Frederick J., to Continental Can Company, Inc. Method of forming blow-off resistant easy opening beverage can. 3,426,714, 2-11-69, Cl. 113-121.

Boiko, Anatoly Nickolaevich: *See—*
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich; Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich,3,430,150.

Boiko, Marvin M.; and Schneider, Carl H., to Tri-Bros. Chemical Corporation. Method of descaling open water systems. 3,424,688, 1-28-69, Cl. 252-87.

Boilard, Dennis I.; and Mizuhara, Albert, to Varian Associates. Efficient radiation cooled beam collector for linear beam devices. 3,448,313, 6-3-69, Cl. 313-40.

Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Safety devices for tire covers. 3,426,821, 2-11-69, Cl. 152-155.

Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic springs. 3,438,309, 4-15-69, Cl. 92-103.

Boileau, Jacques; Desseigne, Gerard; and Konrat, Jean Paul, to Etat Francais, represente par le Ministre, des Armees, Delegation Ministerielle pour l'Armement (Direction des Poudres). Explosive containing hexogene or octogene and a nitrated n-methylaniline. 3,466,205, 9-9-69, Cl. 149-18.

Boileau, Louis D.: *See—*
Rosner, Michael W.; Boileau, Louis D.; and Greipel, Frank J.,3,468,277.

Boise Cascade Corporation: *See—*
Doohan, Michael E., 3,443,462.
Meyer, Robert W., 3,467,299.
Myers, Albert F., 3,451,496.

Boisis, Salomon A. Folding pedal gear for a bicycle. 3,422,701, 1-21-69, Cl. 74-594.7

Boisse, Ronald J., to Mr. Christmas, Inc. Method of producing a decorative material and article produced by said method. 3,484,329, 12-16-69, Cl. 161-12.

Boisseau, Lucien, to Societe des Forges et Ateliers du Creusot. Retarding device for the delivery end of a printing machine. 3,421,757, 1-14-69, Cl. 271-80.

Boissevain, Mathew G., to FMC Corporation. Method of and apparatus for liquid handling and dialysis. 3,479,280, 11-18-69, Cl. 210-22.

Boissevain, Mathew G.; and Schneebeli, Jean Pierre. Liquid sealed continuous combustion engine. 3,446,016, 5-27-69, Cl. 60-39.45

Boissevain, Mathew G.; and Traube, Robert J., to FMC Corporation. Apparatus for handling articles in a warehouse. 3,458,062, 7-29-69, Cl. 214-16.4

Boissevain, Mathew G.: *See—*
Gallo, Jules R.; Smith, William W.; and Boissevain, Mathew G.,3,448,870.

Boissier, Jacques Robert; and Combes, Georges Andre, to Societe Anonyme dite Societe Industrielle Pour la Fabrication des Antibiotiques (S.I.F.A.). Tetracycline cyclohexyl sulphamate and process for preparation. 3,459,854, 8-5-69, Cl. 424-128.

Boissier, Jacques Robert; and Ratouis, Roger, to Societe Anonyme dite: Societe Industrielle Pour la Fabrication des Antibiotiques (S.I.F.A.). Aminoethers derived from 9,10-ethano-9,10- dihydro-9-anthrol and their salts and process for preparation thereof. 3,422,106, 1-14-69, Cl. 260-253.

Boissieras, Jean; and Ceyzeriat, Louis Frederic, to Rhone-Poulenc S.A. Organosilicon compounds and compositions containing the same. 3,429,847, 2-25-69, Cl. 260-37.

Boissieras, Jean; and Lefort, Marcel, to Rhone-Poulenc S.A. Organopolysiloxanes, their preparation and their uses. 3,444,225, 5-13-69, Cl. 260-448.2

Boissiere, Jacques G.: *See—*
Beurtheret, Charles A.; and Boissiere, Jacques G.,3,435,283.

Boissonnas, Roger; and Huguenin, Rene, to Sandoz Ltd., (also known as Sandoz A.G.). Desamino^{2}-arginine^{8}-vasopressin. 3,454,549, 7-8-69, Cl. 260-112.5

Boivent, Marcel, to Compagnie de Saint-Gobain. Method of melting glass. 3,443,921, 5-13-69, Cl. 65-134.

Boivin, Claude: *See—*
Malfroy, Remy, 3,477,574.

Boivin, Horace. Floor covering. 3,445,320, 5-20-69, Cl. 161-83.

Boiziau, Claude, to Commissariat a l'Energie Atomique. Method and apparatus for selecting gas pressures over a wide range. 3,449,659, 6-10-69, Cl. 324-33.

Bojas, Edward J., to Eaton Yale & Towne, Inc. Power limiter control. 3,448,578, 6-10-69, Cl. 60-53.

Bok, Cornelis; Selling, Hendrik Johannes; and Van Den Boom, Martinus Adriaan, to Nederlandse Centrale Organisatie voor Toegepast- Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Method for the production of yarn and a yarn obtained by applying the said method. 3,447,310, 6-3-69, Cl. 57-164.

Bok, Edward. Method of manufacturing bag closures. 3,439,468, 4-22-69, Cl. 53-14.

Bok, Edward, to Dike, Inc. Drafting pen with vent valve. 3,463,598, 8-26-69, Cl. 401-259.

Bok, Edward, to Dike, Inc. Drafting pen with extensible tip. 3,486,830, 12-30-69, Cl. 401-260.

Bok, Hendrik F. Method for controlling a spray-coating environment. 3,475,202, 10-28-69, Cl. 117-102.
Bok, Hendrik F. Sealed sprayer and baffle combination for a spray-coating environment. 3,478,720, 11-18-69, Cl. 118-323.
Bokma, Mindert P.: *See—*
Wyeroski, Ronald M.; and Bokma, Mindert P.,3,478,993.
Bokosky, Robert J.: *See—*
Bailey, James R.; and Bokosky, Robert J.,3,422,426.
Bailey, James R.; and Bokosky, Robert J.,3,446,467.
Boksjo, Carl Ingvar, to Allmanna Svenska Elektriska Aktiebolaget. Thyristor rectifier comprising series connected thyristors of alternately PNPN and NPNP type. 3,486,103, 12-23-69, Cl. 321-8.
Boksjo, Ingvar; Olsson, Karl-Erik; and Svedberg, Per. Allmanna Svenska Elektriska Aktiebolaget Thyristor circuit with over-voltage protection. 3,487,261, 12-30-69, Cl. 315-150.
Bol, Morris; Deaver, Bascom S., Jr.; and Fairbank, William M. Superconductive circuit and method for measuring magnetic fields and magnetic properties of materials employing serially connected superconductive loops. 3,454,875, 7-8-69, Cl. 324-47.
Boland, Lawrence J.; Mizzi, John V.; and Smith, John W., to International Business Machines Corporation. Control system for interleave memory. 3,449,724, 6-10-69, Cl. 340-172.5
Boland, Steven H., to Ultra-Violet Products, Inc. Stabilized light source for operation at substantially constant temperature and intensity. 3,457,454, 7-22-69, Cl. 315-115.
Bolasny, Robert E., to Scientific Enterprises, Inc., mesne. Detection of package contaminants. 3,422,265, 1-14-69, Cl. 250-71.
Bold, Eugene R.; Krebs, Peter D.; and McKeon, Patrick E., to Automatic Electric Laboratories, Inc. Method for fabricating a prewired terminal block. 3,431,642, 3-11-69, Cl. 29-629.
Boldebuck, Edith M.; and Gaertner, Richard F., to General Electric Company. Polymer solutions and methods for preparing and using the same. 3,440,202, 4-22-69, Cl. 260-31.2
Boldebuck, Edith M.; and Holub, Fred F., to General Electric Company. Coating solutions and methods for preparing and using the same. 3,440,196, 4-22-69, Cl. 260-29.2
Boldebuck, Edith M.; and Holub, Fred F., to General Electric Company. Coating solutions and methods for preparing and using the same. 3,440,197, 4-22-69, Cl. 260-29.2
Boldebuck, Edith M.; and Sonnenberg, Joseph, to General Electric Company. Polyamide acid solution containing a silicone and surface coated with said solution. 3,440,203, 4-22-69, Cl. 260-33.4
Bolden, Harold E. Eyeglass frame with pivotally mounted lens. 3,434,780, 3-25-69, Cl. 351-41.
Bolding, Charles E.: *See—*
Ramsey, Willard A.; and Bolding, Charles E.,3,459,144.
Ramsey, Willard A.; and Bolding, Charles E.,3,459,145.
Boldridge, Austin Gallatin, Jr. Cesiumion accelerometer. 3,439,544, 4-22-69, Cl. 73-517.
Boldstein, Irving S., to Continental Can Company, Inc. Method of flameproofing cellulosic materials. 3,479,211, 11-18-69, Cl. 117-136.
Boldt, Heinz, to Borsig Aktiengesellschaft. Valve with ball-shaped stop cock. 3,446,479, 5-27-69, Cl. 251-315.
Bolen, Herbert L.: *See—*
Geary, Daniel; McKewon, Thomas E.; Harris, Richard S.; and Bolen, Herbert L.,3,460,258.
Bolen, Kenneth E., to Phillips Petroleum Company. Packaging. 3,425,542, 2-4-69, Cl. 206-65.
Bolen, Richard K., to Northwestern Corporation, The. Vending machine automatic locking cash box. 3,428,216, 2-18-69, Cl. 221-154.
Bolen, Richard K., to Northwestern Corporation, The. Merchandise vending machine with combination rotary coin mechanism and slug rejector. 3,430,746, 3-4-69, Cl. 194-63.
Boles, Robert W.: *See—*
Shupe, Marvin; and Boles, Robert W.,3,457,673.
Boles, Sherman L., Jr., to Interchemical Corporation. Prevention of gassing in inks and coatings containing nitrocellulose. 3,421,912, 1-14-69, Cl. 106-26.
Bolewski, Josef. Method of making gravel filter pipes. 3,467,740, 9-16-69, Cl. 264-69.
Boley, Morris V.: *See—*
Neisser, Philip B.; and Boley, Morris V.,3,466,157.
Bolez, Carl A.: *See—*
Pryor, John A.; and Bolez, Carl A.,3,440,828.
Bolger, Justin C., to Amicon Corporation. Method of coating and composition therefor. 3,464,854, 9-2-69, Cl. 117-160.
Bolger, Justin C.; and Michaels, Alan S., to Pulp Chemicals Association. Recovery of tall oil soaps from sulfate process black liquor. 3,449,313, 6-10-69, Cl. 260-97.6
Bolgiano, Nicholas C., to Armstrong Cork Company. Glass surfaces coated with decorative organic coatings. 3,441,424, 4-29-69, Cl. 117-12.
Bolhofer, William A.; and Baldwin, John J., to Merck & Co., Inc. Maleimido aryloxy alkanoic acids, alkyl esters and amides thereof. 3,465,001, 9-2-69, Cl. 260-326.3
Bolhofer, William A.; and Baldwin, John J., to Merck & Co., Inc. (Succinimidoaryloxy)alkanoic acids, esters and amides thereof. 3,465,002, 9-2-69, Cl. 260-326.3
Bolhofer, William A.; and Sprague, James M., to Merck & Co., Inc. 4,5-Dihalo-1,2-dihydro-3,6-pyridazine diones. 3,453,273, 7-1-69, Cl. 260-247.2
Bolhofer, William A.: *See—*
Sprague, James M.; and Bolhofer, William A.,3,452,081.
Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Portable comtination public-address system and lectern. 3,443,031, 5-6-69, Cl. 179-1.
Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Dictation-transcription device. 3,467,790, 9-16-69, Cl. 179-100.1
Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Device to indicate the net motion of a tape in one of two directions of travel. 3,467,791, 9-16-69, Cl. 179-100.2
Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Tape driving device. 3,471,072, 10-7-69, Cl. 226-187.
Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Tape motion device. 3,482,751, 12-9-69, Cl. 226-50.
Boliden Aktiebolag: *See—*
Nilsson, Karl Folke, 3,486,310.
Bolie, Victor W., to North American Rockwell Corporation. Artificial heart regulating system. 3,449,767, 6-17-69, Cl. 3-1.
Bolieau, Christopher W., to Thiokol Chemical Corporation. Igniter system for illuminating compositions. 3,479,954, 11-25-69, Cl. 102-37.8
Boling, Eldon A. Gas burner for atomic absorption spectroscopy. 3,434,668, 3-25-69, Cl. 239-552.
Boling, Kurt Goran Rafael: *See—*
Agdur, Nils Bertil; Sellberg, Florian; Boling, Kurt Goran Rafael; and Ohman, Karl Yngve,3,468,006.
Boling, Norman L.: *See—*
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr.,3,425,046.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr.,3,430,216.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr.,3,465,318.
Bolinger, Edgar Dare, to Deering Milliken Research Corporation. Textile sizing composition. 3,427,192, 2-11-69, Cl. 117-139.5
Bolinger, Edgar Dare; and Habib, Emile E. Water soluble polyurethane produced by reacting an aldehyde and the reaction product of an organic diisocyanate and an anhydrous polyalkylene ether glycol. 3,427,272, 2-11-69, Cl. 260-29.4
Bolinger, Edgar Dare; and Machell, Greville, to Deering Milliken Research Corporation. Keratin fibers modified with combination of hard polymer forming and soft polymer forming monomers to improve quality of knitted goods made therewith. 3,437,420, 4-8-69, Cl. 8-127.5
Bolinger, Edgar Dare; Machell, Greville; and Marco, Francis W., to Deering Milliken Research Corporation. Improving the crimpability of keratinous fibers by reacting same with a vinyl aromatic compound in combination with an acrylic ester. 3,457,027, 7-22-69, Cl. 8-127.5
Bolinger, Edgar Dare; and Morgan, Willard L., to Deering Milliken Research Corporation. Modification of keratin fibers with ethylenically unsaturated compounds in the presence of aqueous solutions of fiber swelling agents. 3,475,114, 10-28-69, Cl. 8-127.5
Bolintineanu, Razvan: *See—*
Ghita, Dumitru; Saizescu, Nastase; and Bolintineanu, Razvan,3,485,605.
Bolkcom, Wilbur T.; and Knapp, William E. Silicon carbide furnaces and plants. 3,432,605, 3-11-69, Cl. 13-20.
Bolkow Gesellschaft mit bechrankter Haftung: *See—*
Arbeitlang, Erich, 3,478,607.
Brunsch, Klaus, 3,476,484.
Derschmidt, Hans, 3,448,811.
Eck, Gerhard, 3,433,543.
Emde, Gunter, 3,482,132.
Friesecke, Klaus, 3,448,284.
Haberkorn, Joseph A. Erich, 3,460,783.
Haberkorn, Erich; and Rikus, Hans, 3,486,716.
Hutter, Heinrich, 3,483,703.
Malinowsky, Boris, 3,449,676.
Munding, German, 3,459,001.
Pabst, Otto Ernst; and Haberkorn, Joseph A. Erich, 3,451,648.
Pfister, Franz, 3,459,100.
Planitzer, Erich; Maus, Eicke; Multerer, Albert; Schober, Erwin; and Schindler, Werner, 3,446,112.
Schmeilau, Peter, 3,469,803.
Schrempp, Winfried, 3,423,591.
Schutz, Manfred, 3,468,128.
Sohlemann, Just, 3,477,264.
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz, 3,466,968.
Strohl, Heinrich, 3,479,818.
Theunissen, Ernst; and Sass, Hans-Eckhard, 3,423,047.
Thomanek, Franz R.; and Held, Manfred, 3,438,326.
Thomanek, Franz Rudolf, 3,439,613.
Thomanek, Franz Rudolf; and Schlesiger, Heinz, 3,478,685.
Waltz, Otto, 3,440,821.
Weiland, Emil, 3,477,796.

Boll, Carleton H.; and Lanyon, Robert P., to Solvents Recovery Service of New Jersey, Inc. Apparatus for burning industrial wastes. 3,483,832, 12-16-69, Cl. 110-7.
Boll, Harry J., to Bell Telephone Laboratories, Incorporated. Telephone transmitter circuit employing variable capacitance microphone. 3,440,351, 4-22-69, Cl. 179-1.
Boll, Harry J., to Bell Telephone Laboratories, Incorporated. Piezoresistance element microphone circuit. 3,440,352, 4-22-69, Cl. 179-1.
Boll, Harry J., to Bell Telephone Laboratories, Incorporated. Shock-resistant microphone. 3,440,363, 4-22-69, Cl. 179-121.
Boll, Manfred: *See—*
Resz, Raoul; Bartl, Herbert; Weber, Karl-Arnold; and Boll, Manfred,3,483,076.
Boll, Richard: *See—*
Assmus, Fritz; Boll, Richard; Detert, Klaus; Ganz, Dietrich; Ibe, Gerhard; and Pfeifer, Friedrich,3,466,201.
Bolle, Jean Charles Eugene, to Institut National de Recherche Chimique Appliquee. Methods of obtaining chlorinated organic compounds. 3,459,820, 8-5-69, Cl. 260-660.
Bollee, Boudewijn, to North American Philips Company, Inc. Electrostatic synchronous motors. 3,433,981, 3-18-69, Cl. 310-6.
Bollee, Boudewijn, to North American Philips Company, Inc. Electrostatic synchronous motor. 3,436,630, 4-1-69, Cl. 318-116.
Bollen, Hans: *See—*
Rijnsdorp, Johannes E.; van Kampen, Johannes A.; and Bollen, Hans,3,428,527.
Boller, Arthur; Furst, Andor; and Muller, Marcel, to Hoffmann-La Roche Inc.17α-Methyl-retrosteroids. 3,463,775, 8-26-69, Cl. 260-239.5
Boller, John A., to Landis Tool Company. Wheelbase swivelling means. 3,432,970, 3-18-69, Cl. 51-49.
Boller, John A.: *See—*
Fries, John R.; Price, Ralph E.; and Boller, John A.,3,468,069.
Bolles, Elmer Richard, to Hawaiian Sugar Planters Association. Stalk segmenting apparatus. 3,464,470, 9-2-69, Cl. 146-98.
Bolles, William L., to Monsanto Company. Countercurrent contacting process. 3,460,320, 8-12-69, Cl. 55-82.
Bollibon, George E.: *See—*
Stark, Michael; and Bollibon, George E.,3,475,631.
Bollig, Georg: *See—*
Dopper, Otto; Bollig, Georg; Schroder, Egbert; Kuppers, Klaus; and Schulz, Alfred,3,469,429.
Bolling, Carl, to Imperial-Eastman Corporation. Method of retaining a valve stem in a valve body. 3,444,605, 5-20-69, Cl. 29-157.1
Bolling, Robert W., Jr.; Fenwick, Willis L.; and Reeves, Jerry H., III, to Union Camp Corporation. Leakproof container. 3,473,723, 10-21-69, Cl. 229-37.
Bolling, Robert W.: *See—*
McCall, Frank S.; and Bolling, Robert W.,3,485,438.
Bolling, Thomas J., Jr.: *See—*
Broussard, Douglas E.; Hemphill, Dean P.; Bolling, Thomas J., Jr.; and Roach, Erskine E.,3,463,518.
Bollinger, Frederick W.: *See—*
Chemerda, John M.; Sletzinger, Meyer; and Bollinger, Frederick W.,3,462,536.
Bollinger, Frederick W.; Portnoff, Joel B.; and Davidson, Alan J., to Merck & Co., Inc. Aerosol composition of phenylephrine tartrate and the production of such. 3,482,015, 12-2-69, Cl. 424-45.
Bollinger, John G.; Stankey, Michael A.; and Harrison, Howard L., to Harnischfeger Corporation, mesne. Automated control system for high speed arc welding. 3,452,180, 6-24-69, Cl. 219-125.
Bollinger, John Gustave: *See—*
Boncsho, James A.; and Bollinger, John Gustave,3,483,951.
Bollinger, Luther Lewis, Sr.: *See—*
Fisher, Franklin G.; and Bollinger, Luther Lewis, Sr.,3,425,513.
Fisher, Franklin G.; and Bollinger, Luther Lewis, Sr.,3,449,026.
Bollmann, Gustav: *See—*
Jansen, Wilhelm; and Bollmann, Gustav,3,420,394.
Bollmeier, Emil Wayne, to Minnesota Mining and Manufacturing Company. Magnetic remote control switch. 3,461,354, 8-12-69, Cl. 317-156.
Bollyky, Laszlo Joseph, to American Cyanamid Company. Generation of light by the reaction of tetra- cyanoethylene or other electronegatively substi- tuted ethylene, ethylene oxide and carbonyl compound with hydrogen peroxide in the presence of a fluorescer. 3,442,816, 5-6-69, Cl. 252-188.3
Bollyky, Laszlo Joseph; and Whitman, Robert Henry, to American Cyanamid Company. Generation of light by the reaction of oxalyl chloride pyridine and tertiary amine complexes with peroxides in the presence of a fluorescer. 3,442,813, 5-6-69, Cl. 252-188.3
Bollyky, Laszlo Joseph: *See—*
Rauhut, Michael McKay; and Bollyky, Laszlo Joseph,3,442,815.
Bolner, Thomas E., to Thiokol Chemical Corporation. Low torque flex-seal bearing for thrust vector nozzles for solid propellant rocket motors. 3,468,588, 9-23-69, Cl. 308-36.1
Bolognesi, Gino. Magnetic soap holder and toothbrush holder combination with soap drop catcher. 3,472,391, 10-14-69, Cl. 211-65.
Bolomey, Rene A.: *See—*
Quinn, Charles A.; Rieger, Carl J.; and Bolomey, Rene A.,3,437,515.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovitch; and Khaidurov, Leonid Konstantinovich. Device for loading ground in a mechanized drifting shield. 3,467,437, 9-16-69, Cl. 299-33.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich. Loading device. 3,467,438, 9-16-69, Cl. 299-33.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich. Working member of rotary type in a mechanized drifting shield. 3,467,439, 9-16-69, Cl. 299-90.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razemerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich. Device for driving a working member of rotary type in a mechanized drifting shield. 3,477,301, 11-11-69, Cl. 74-129.
Bolotin, Evgeny Moiseevich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Bolsenga, Stanley J.: *See—*
Kucera, Thomas J.; and Bolsenga, Stanley J.,3,475,094.
Bolt Associates, Inc.: *See—*
Chelminski, Stephen Victor; and Chelminski, Paul, 3,471,827.
Bolt Beranek and Newman Inc.: *See—*
Allen, Clayton H.; and Heine, John C., 3,480,281.
Allen, layton H., 3,479,669.
Jones, Royal V., Jr.; Allen Clayton H.; and Gordon, Colin G., 3,480,283.
Kerwin, Edward M., Jr., 3,472,515.
Malme, Charles I.; and Watters, Bill G., 3,454,127.
Bolt, Harold H.: *See—*
Rolf, Robert E.; and Bolt, Harold H.,3,451,250.
Bolt, Harold. Pivotal platform and slidable ramp parking device. 3,469,717, 9-30-69, Cl. 214-16.1
Bolt, Murray H.; and Nick, Howard H., to International Business Machines Corporation. Pulse discriminating latch. 3,444,470, 5-13-69, Cl. 328-109.
Bolt, Murray H.: *See—*
Uberbacher, Edward C.; and Bolt, Murray H.,3,460,069.
Bolt, Reggie M. Valve for semifluid material. 3,433,466, 3-18-69, Cl. 259-153.
Bolt, Robert O.; and West, William W., to Chevron Research Company. Strippable polymeric coatings. 3,455,865, 7-15-69, Cl. 260-33.6
Bolt, Robert O.: *See—*
West, William W.; and Bolt, Robert O.,3,424,711.
West, William W.; and Bolt, Robert O.,3,454,520.
Bolta, Christian C.: *See—*
Silver, Bernard; and Bolta, Christian C.,3,430,619.
Boltinghouse, Joseph C.; and Atkinson, James L., to North American Rockwell Corporation. Electrostatic levitation control system. 3,482,455, 12-9-69, Cl. 74-5.6
Boltinghouse, Joseph C.; and Slater, John M., to North American Rockwell Corporation. Electrostatic gyrocompass. 3,443,320, 5-13-69, Cl. 33-226.
Bolto, Brain Alfred: *See—*
Weiss, Donald Eric; and Bolto, Brain Alfred,3,425,937.
Bolton, Anthony P.: *See—*
Lanewala, Mohammed Ali; Bolton, Anthony P.; and Pickert, Paul E.,3,450,644.
Bolton, Douglas John: *See—*
Mageli, Orville Leonard; and Bolton, Douglas John,3,446,831.
Bolton, Maston C.; and Hayes, Justa L. Fluid actuated percussion tool. 3,453,657, 7-1-69, Cl. 173-17.
Bolton, R. B., (Hydraulics) Limited: *See—*
Fronicke, Herbert Hermann, 3,441,043.
Bolton, Robert Benjamin. Scraper-chain conveyors. 3,472,556, 10-14-69, Cl. 299-43.
Bolton, Theodore S., to Carrier Corporation. Door mounting for a room air conditioner discharge opening. 3,431,748, 3-11-69, Cl. 62-262.
Bolton, Wilfred, to Swanwarp Machines Limited. Patterning mechanisms for warp knitting machines. 3,451,231, 6-24-69, Cl. 66-156.
Bolton-Emerson, Inc.: *See—*
Danforth, Donald W., 3,428,262.
Danforth, Donald W.; and Clendaniel, William Richard, 3,452,587.
Johnson, Charles A., 3,432,107.
Johnson, Charles A., 3,452,939.
Moulton, William R., 3,428,261.
Russell, Frank H., 3,432,383.
Boltz, Charles D., Jr.: *See—*
Nelson, Robert E.; and Boltz, Charles D., Jr.,3,479,822.

Boltze, Karl-Heinz; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Theophylline and theobromine, their salts and processes for the production thereof. 3,459,753, 8-5-69, Cl. 260-256.
Bolz, Edmund: *See—*
Held, Fritz; and Bolz, Edmund,3,458,351.
Bolza-Schunemann, Hans B.; and Germann, Albrecht, to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Rotary offset printing press. 3,452,672, 7-1-69, Cl. 101-177.
Bom, Cornelis Johannes Gerardus: *See—*
van der Lely, Ary; and Bom, Cornelis Johannes Gerardus,3,425,627.
Bomar, Horace L.: *See—*
Adams, Russell E., 3,439,716.
Berry, Ronald, 3,425,461.
Brown, Ralph H., Jr., 3,444,899.
Brown, Ralph H., Jr., 3,467,148.
Budzyna, Joseph M.; and Mucciarone, Rocco H., 3,444,904.
Consoletti, Paul C., 3,467,811.
Cugini, John A.; and Chabot, Leo L., 3,425,395.
Dubois, Joseph W., 3,444,678.
Mallard, Robert G., 3,448,776.
Nichols, Edward C.; and Tiernan, Stanley C., 3,425,458.
Nydam, John H., 3,442,301.
Nydam, John H., 3,467,147.
Papelian, Roger G.; and Fontaine, Andre J., 3,442,300.
Papelian, Roger G.; and Budzyna, Walter James, 3,444,903.
Petko, Michael A.; and Burger, Theodore G., 3,439,512.
Sotek, Stanley J., 3,421,552.
Sprague, Frederick L., 3,433,430.
Thibault, Harrison N.; and Tosches, Anthony J., 3,431,951.
Wiesinger, Frederick C.; Lyster, Thomas C.; and Reisener, William C., Jr., 3,423,960.
Wiesinger, Frederick C., 3,425,242.
Wiesinger, Frederick C., 3,425,243.
Wiesinger, Frederick C.; and Petko, Michael A., 3,425,244.
Wiesinger, Frederick C., 3,427,829.
Bombaci, Vincent A. Rods and tubular connectors having means for limiting rod isertion. 3,432,960, 3-18-69, Cl. 46-29.
Bombard, Richard F.: *See—*
Aldrich, Douglas H.; Bombard, Richard F.; Gibbs, Doyle C.; and Orrange, Robert J.,3,448,271.
Bombardieri, Caurino C., to Esso Production Research Company. Acid treating subterranean formations. 3,434,545, 3-25-69, Cl. 166-42.
Bombardieri, Caurino C., to Esso Production Research Company. Sampling method. 3,456,504, 7-22-69, Cl. 73-151.
Bomberger, Arthur L., to National Bearings Company. Bendable thrust bearing retainer. 3,436,135, 4-1-69, Cl. 308-201.
Bomberger, Howard B., Jr., to Crucible Steel Company of America. Method of adding oxygen to titanium and titanium alloys. 3,433,626, 3-18-69, Cl. 75-10.
Bomberger, Howard B., Jr., to Crucible Steel Company of America. Composite titanium-alloy article resistant to hot salt corrosion. 3,434,813, 3-25-69, Cl. 29-194.
Bomberger, Howard B., Jr.; and Warmuth, Donald B., to Reactive Metals, Inc. Method of processing metastable beta titanium alloy. 3,436,277, 4-1-69, Cl. 148-12.7
Bomberger, Howard B., Jr.: *See—*
Bertea, Octavian; Bomberger, Howard B., Jr.; and Plock, Layne F.,3,469,975.
Bombero, Thomas F.: *See—*
Dawidowicz, Jan; Kuhnl, Leopold K.; Bombero, Thomas F.; and Ferraro, Frank A.,3,456,342.
Bombero, Thomas F., to Eversharp, Inc. Ribbon-type razor with a specific type spool. 3,461,553, 8-19-69, Cl. 30-40.1
Bombrini Parodi-Delfino Societa per Azioni: *See—*
Pesarini, Mario; and Tosti, Carlo, 3,438,303.
Bombrini Parodi-Delfino S.p.A.: *See—*
Zunino, Mario; Corsi, Giannino; and Sammartino, Francesco, 3,425,350.
Bon, Charles K.: *See—*
Piegols, Norman L.; and Bon, Charles K.,3,447,896.
Bon-Aire Industries, Inc.: *See—*
Robinson, Glen, 3,477,087.
Bonacci, Louis F. Combined football centering device and pass-receiving device. 3,467,380, 9-16-69, Cl. 273-55.
Bonacci, Nicholas A., to Maynard Manufacturing Company. Method of making a lobular threaded fastener. 3,434,168, 3-25-69, Cl. 10-27.
Bonadio, George A. Multielement antenna comprising selective switching means. 3,453,635, 7-1-69, Cl. 343-809.
Bonaldi, Giacomo M. Garment hanger. 3,438,556, 4-15-69, Cl. 223-91.
Bonallack & Sons Limited: *See—*
Bonallack, Richard F.; and Bills, Henry, 3,481,642.
Bonallack, Richard F.; and Bills, Henry, to Bonallack & Sons Limited. Insulated bodies for commercial vehicles. 3,481,642, 12-2-69, Cl. 296-31.
Bonami, Ernest A., to Swift & Company. Method and apparatus for shirring flexible material onto cylindrical sections. 3,461,640, 8-19-69, Cl. 53-3.
Bonami, Ernest, to Swift & Company. Trimming tongues. 3,451,099, 6-24-69, Cl. 17-52.
Bonami, Ernest, to Swift & Company. Trimming tongues. 3,470,580, 10-7-69, Cl. 17-1.
Bonanno, Joseph L., to Topper Corporation. Toy having shaft-mounted rotatable and pivotable appendage. 3,477,171, 11-11-69, Cl. 46-161.
Bonanno, Joseph L.; and Crosman, Dorland L., to De Luxe Topper Corporation, mesne. Magnetically controllable doll's eye mechanism. 3,423,874, 1-28-69, Cl. 46-238.
Bonanno, Joseph L.; and Crosman, Dorland L., to De Luxe Topper Corporation, mesne. Animated toy such as a doll. 3,425,153, 2-4-69, Cl. 46-119.
Bonat, Jerome B.: *See—*
Handler, Martin M.; Gulfo, Jon; and Bonat, Jerome B.,3,469,328.
Bonat, Samuel, & Bro., Inc.: *See—*
Handler, Martin M.; Gulfo, Jon; and Bonat, Jerome B., 3,469,328.
Bonaudo, Rodolfo: *See—*
Milone, Giovanni; Bonaudo, Rodolfo; and Ivaldi, Franco,3,473,244.
Bond, George C.; Ham, George E.; and Hamilton, Dallas E., to Dow Chemical Company, The. Process for preparing carboxymethylated polyethylenimine and products produced by the same. 3,424,790, 1-28-69, Cl. 260-534.
Bond, Harry Laurence Fred, to Davy and United Engineering Company Limited. Fluidized bed apparatus for quenching hot rod. 3,445,100, 5-20-69, Cl. 266-3.
Bond, Herbert M., to Minnesota Mining and Manufacturing Company. Process for the production of a metal-polyimide composite and the resulting article. 3,486,934, 12-30-69, Cl. 117-218.
Bond, James H.: *See—*
Harrington, Robert C., Jr.; and Bond, James H.,3,437,497.
Harrington, Robert C., Jr.; Smith, James L.; and Bond, James H.,3,463,688.
Bond, Joseph N. Swimming pool light. 3,456,103, 7-15-69, Cl. 240-26.
Bond, Joseph N., to Potter Instrument Company, Inc. Straight edge, beam or other similar article of manufacture. 3,464,180, 9-2-69, Cl. 52-720.
Bond, Peter Anthony; and Howe, Ralph, to Imperial Chemical Industries Limited. Naphthalene derivatives. 3,463,808, 8-26-69, Cl. 260-479.
Bond, Robert D., to Ames, B. C., Company. Shock protected needle mount for gauges. 3,425,392, 2-4-69, Cl. 116-129.
Bond Stores, Incorporated: *See—*
Shapiro, Laurence L.; and Parillo, Vincent, 3,472,385.
Bond, Walter L.; Duguay, Michel A.; and Rentzepis, Peter M., to Bell Telephone Laboratories, Incorporated. X-ray laser. 3,484,721, 12-16-69, Cl. 331-94.5
Bond, William C., Jr.: *See—*
Wahlborg, Harold J.; and Bond, William C., Jr.,3,487,053.
Sparlin, Derry D.; and Bond, William C.,3,443,637.
Bondarev, Nikolai Nikolaevich: *See—*
Reifman, Mark Petrovich; Bondarev, Nikolai Nikolaevich; and Gendelman, Lev Simkhovich,3,457,483.
Bonded Fibre Fabric Limited: *See—*
Fairfull, Andrew Ewan Spowart; and Welch, Michael Owen, 3,449,287.
Bonders, Peter: *See—*
Gey, Werner; Philipp, Wolfgang; Dittrich, Ewald; Corsepius, Horst; and Bonders, Peter,3,451,900.
Bondi, Enrico; and Larcher, Armando, to Montecatini Edison S.p.A. Process for the preparation of urea- formaldehyde concentrated solutions having a high content of methylenic linkages. 3,450,659, 6-17-69, Cl. 260-29.4
Bondley, Ralph J., to General Electric Company. Thermionic cathode. 3,434,812, 3-25-69, Cl. 29-182.5
Bondouy, Andre; and Biechler, Francois-Joseph. Herbicidal composition and method. 3,424,571, 1-28-69, Cl. 71-92.
Bone, Arnold R., to Dennison Manufacturing Company. Filament type attachment device and manufacture of same. 3,444,597, 5-20-69, Cl. 24-150.
Bone, Arnold R., to Dennison Manufacturing Company. Fastener attaching device. 3,470,834, 10-7-69, Cl. 112-104.
Bone, John D.: *See—*
Allen, John P. C.; Bone, John D.; and Pilia, Frank J.,3,443,057.
Boneck, Roger L. Window supports. 3,479,685, 11-25-69, Cl. 16-172.
Bonelli, Giovanni. Method of preparing basic aluminum sulphate. 3,440,008, 4-22-69, Cl. 23-123.
Bonenberg, Zdzislaw: *See—*
Budzynski, Kazimierz; Juszczyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; and Zakrawacz, Stanislaw,3,479,019.
Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw,3,459,417.
Boner, C. P., and Associates: *See—*
Boner, Charles Paul, 3,457,370.

Boner, Charles Paul, to Boner, C. P., and Associates. Impedance correcting networks. 3,457,370, 7-22-69, Cl. 179-1.

Bonesho, James A.; and Bollinger, John Gustave, to Wisconsin Alumni Research Foundation. Self-optimizing vibration dampers. 3,483,951, 12-16-69, Cl. 188-1.

Bonessa, Vick G., to Bada Company, The. Wheel balance method. 3,478,603, 11-18-69, Cl. 73-483.

Bonetti, Giovanni A.; and Rosenthal, Rudolph, to Atlantic Richfield Company. Organic-soluble molybdenum catalysts. 3,480,563, 11-25-69, Cl. 252-431.

Bonetti, Giovanni A.: *See—*
Rosenthal, Rudolph; and Bonetti, Giovanni A.,3,445,523.

Boney, Donald R., to Brown, D. S., Company, The. Elastomer sealing strips. 3,485,149, 12-23-69, Cl. 94-18.

Boney, James Finley: *See—*
Hawthorne, Vernon D., 3,455,403.

Bonfilio, Ralph J. Automatic oil exchanging system. 3,447,636, 6-3-69, Cl. 184-1.5

Bonfils, Kjeld. Colostomy or ileostomy bag. 3,439,677, 4-22-69, Cl. 128-283.

Bongartz, Hans; and Reinecke, Gunter, to Benz & Hilgers G.m.b.H. Apparatus for closing of folding-boxlike packages filled with soft packings. 3,452,515, 7-1-69, Cl. 53-376.

Bongenaar, Willem; Gieles, Joannes Paulus Maria; and Slob, Arie, to North American Philips Company, Inc. Low output impedance majority logic inverting circuit. 3,433,978, 3-18-69, Cl. 307-214.

Bongers, Leonard H.; and Kok, Bessel, to Martin-Marietta Corporation. Closed ecological system for the support of animal life and the method thereof. 3,420,739, 1-7-69, Cl. 195-1.

Bongiorno, Salvatore J., to Chemical Construction Corporation. Process and apparatus for reforming hydrocarbons. 3,446,747, 5-27-69, Cl. 252-373.

Bongort, Edgar A.: *See—*
Akin, Welling T.; and Bongort, Edgar A.,3,475,719.

Bonham, David C. Hairpiece. 3,420,249, 1-7-69, Cl. 132-53.

Bonhomme, Francois Robert, to Connectronics Corporation. Electrical connector socket. 3,470,527, 9-30-69, Cl. 339-256.

Bonhote, Rene: *See—*
Reuge, Henri; and Bonhote, Rene,3,445,123.

Boniecki, Krystyna W.; and Boniecki, Maria Albin. Figure having an associated spray of liquid simulating wearing apparel. 3,432,099, 3-11-69, Cl. 239-18.

Boniecki, Maria Albin: *See—*
Boniecki, Krystyna W.; and Boniecki, Maria Albin,3,432,099.

Boniface, Harry Edgar. Eavestrough connector. 3,430,447, 3-4-69, Cl. 61-15.

Bonikowski, Zbigniew; and Szostak, Jerzy Przemyslaw, to British Insulated Callender's Cables Limited. Control system for reversible servo-motor for driving elongated flexible material at constant tension. 3,461,369, 8-12-69, Cl. 318-207.

Bonilla, Charles F., to Chlormetals Incorporated. Process and apparatus for separating metals by distillation. 3,484,233, 12-16-69, Cl. 75-63.

Bonilla, Charles F.; Brown, Steven H.; and Reiter, Sydney H., to National Lead Company. Shipping container for radioactive materials having corner shielding means. 3,483,381, 12-9-69, Cl. 250-108.

Bonin, Edward L., to Texas Instruments, Incorporated. Phototransistor having light sensitive diode connected across collector-base junction to increase turnoff time. 3,476,941, 11-4-69, Cl. 250-211.

Bonin, Emile L. Welt butting machine. 3,484,879, 12-23-69, Cl. 12-67.

Bonin, George E., to Corning Glass Works. Pressure chuck. 3,456,399, 7-22-69, Cl. 51-237.

Bonin, Walter T.: *See—*
Clark, David J.; and Bonin, Walter T.,3,478,732.

Bonin, Yves: *See—*
Collardeau, Georges; and Bonin, Yves,3,484,404.

Bonino, Bruce S., to Uniroyal, Inc. Apparatus for simulating the pure rolling between pitch circles of two mating members. 3,451,278, 6-24-69, Cl. 74-57.

Bonis, Laszlo J.; and Grierson, Robert, to Ilikon Corporation. Method for the production of composite materials and articles produced thereby. 3,460,971, 8-12-69, Cl. 117-71.

Bonitron, Inc.: *See—*
Benson, Robert W.; and Pearsall, Samuel H., Jr., 3,461,302.

Bonitz, Eckhard; and Rettig, August, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Organosilicon binders. 3,451,833, 6-24-69, Cl. 106-287.

Bonjour, Georges Auguste, to Societe Lumiere. Process for the manufacture of an electrophotographic material. 3,454,415, 7-8-69, Cl. 117-34.

Bonjour, Georges Auguste, to Societe Lumiere. Process for the manufacture of an electrophotographic material. 3,460,963, 8-12-69, Cl. 117-34.

Bonkowski, Edmund P.; and Drolet, Walter B. Lightning protector of boats with marine antenna. 3,483,305, 12-9-69, Cl. 174-2.

Bonn, Francis H. Air bags for pressing machines. 3,480,187, 11-25-69, Cl. 223-67.

Bonna, Louis; and Pun, Lucas, to Brevets Aero-Mecaniques S.A. Optical sighting devices for light antiaircraft guns. 3,453,055, 7-1-69, Cl. 356-255.

Bonnamy, Philippe Jean-Francois, to Combustion Engineering, Inc. Base leg connector. 3,452,953, 7-1-69, Cl. 248-188.

Bonnard, Gabriel, to United Merchants and Manufacturers, Inc. Selective weft depositors for shuttleless looms. 3,481,370, 12-2-69, Cl. 139-122.

Bonnaud, Michel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Device for pivotably mounting an inclinable backrest of a seat and a seat including said device. 3,479,088, 11-18-69, Cl. 297-373.

Bonnel, Bernard; and Neel, Jean, to Progil. Compositions for the consolidation of soils. 3,437,625, 4-8-69, Cl. 260-29.4

Bonnel, Bernard: *See—*
Neel, Jean; and Bonnel, Bernard,3,450,661.

Bonnema, Robert W.: *See—*
Tyler, Merle D.; Bonnema, Robert W.; and Higgins, Archie H.,3,437,201.

Bonnemay, Maurice M.; Bronoel, Guy G.; Levart, Eugene; and Doniat, Denis, to Centre National de la Recherche Scientifique. Electrochemical generators utilizing gaseous fuels and/or gaseous oxidizers. 3,484,292, 12-16-69, Cl. 136-86.

Bonner, Glenn H.; Doman, Robert C.; Iseli, Robert W.; and Papa, Pellegrino, to Corhart Refractories Company, Inc. Gaseous treatment of fused cast basic refractory to prevent hydration. 3,487,136, 12-30-69, Cl. 264-82.

Bonner, Oscar. Fishing line twirler. 3,466,784, 9-16-69, Cl. 43-19.2

Bonner, Peter Joseph: *See—*
Smerd, Hans Otto; and Bonner, Peter Joseph,3,442,075.
Hunt, Robert William; Jones, Eric Lindsay; and Bonner, Peter,3,420,988.

Bonner, William A. Apparatus for recording and documenting quantities dispensed in relation to time. 3,430,252, 2-25-69, Cl. 346-43.

Bonner, William A.; Geusic, Joseph E.; and Van Uitert, Le Grand G., to Bell Telephone Laboratories, Incorporated. Devices utilizing crystals of $Pb_3 Mg_2 Nb_2 O_9$. 3,453,561, 7-1-69, Cl. 332-7.51

Bonneric, Francis, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Distributing device for tobacco and the like. 3,450,311, 6-17-69, Cl. 222-280.

Bonneric, Francis, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for controlling the displacement of a moving element. 3,459,057, 8-5-69, Cl. 74-89.15

Bonneric, Francis, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for delivering a precise quantity of divided tobacco or like material. 3,468,459, 9-23-69, Cl. 222-196.

Bonnet, Andre, to Societe Aria. Method and apparatus for pneumatically separating solid particles. 3,480,142, 11-25-69, Cl. 209-133.

Bonnet, Fritz; and Fromm, Robert Gustav, to Joachim Fromm Leopold Mayer-Bass GmbH. Perserving hops by drying and maintaining in an inert atmosphere. 3,442,657, 5-6-69, Cl. 99-50.5

Bonnet, Jean-Loup: *See—*
Lahaye, Raymond; and Bonnet, Jean-Loup,3,455,157.

Bonnet, Maurice, to Centre National de la Recherche Scientifique. Devices for producing virtual images. 3,442,569, 5-6-69, Cl. 350-137.

Bonnet, Robert E., to Engelhard Minerals & Chemicals Corporation. Hydrogen diffusion apparatus. 3,486,301, 12-30-69, Cl. 55-158.

Bonnet, Yannik, to Rhone-Poulenc S.A. Methyl 2-methylene-cycloundecane- carboxylate. 3,455,991, 7-15-69, Cl. 260-468.

Bonnet, Yannik, to Rhone-Poulenc S.A. Cyclene-carboxylates and preparation thereof. 3,468,929, 9-23-69, Cl. 260-464.

Bonnin, Andre; and Poirier, Philippe, to Societe Saint-Gobain Techniques Nouvelles. Preparation of barium 137 in an organic medium. 3,450,640, 6-17-69, Cl. 252-301.1

Bonnin, Andre; and Poirier, Philippe, to Societe Saint-Gobain Techniques Nouvelles. Method of cesium 137 removal. 3,453,214, 7-1-69, Cl. 252-301.1

Bonnin, Bernard: *See—*
Weil, Louis; and Bonnin, Bernard,3,423,824.

Bonnivard, Georges, to Institut de Recherches de la Siderurgie Francaise, and Bureau de Recherches Geologiques et Minieres. Method of separately obtaining sodium carbonate and sodium chromate from solutions obtained by leaching roasted laterites and the like. 3,458,278, 7-29-69, Cl. 23-56.

Bono, Luigi, to Necchi Societa per Azioni. Removable stitch pattern template means for sewing machines. 3,440,980, 4-29-69, Cl. 112-2.

Bono, Luigi, to Necchi Societa per Azioni. Thread-winding deviee for sewing machines. 3,460,772, 8-12-69, Cl. 242-20.

Bonomo, Salvatore G. Sewing machine attachment. 3,450,077, 6-17-69, Cl. 112-114.

Bonovitz, James J.: *See—*
Auer, William F.; Bonovitz, James J.; and Valleau, Robert L.,3,451,019.

Bonsack, James P., to SCM Corporation, mesne. Titanium salt purification. 3,441,373, 4-29-69, Cl. 23-87.

Bonsch, Gustav; and Nolz, Klaus, to Voith Getriebe KG. Emptying device for fluid flow circuits. 3,478,516, 11-18-69, Cl. 60-54.

Bonse, Ulrich Karl; and Hart, Michael, to Research Corporation. X-ray interferometer using three spaced parallel crystals. 3,446,961, 5-27-69, Cl. 250-51.5
Bonsel, Wouter G.; and Weevers, Henry H., to Reactor Centrum Nederland. Nuclear energy reactor plant having one or more heat exchangers. 3,425,907, 2-4-69, Cl. 176-65.
Bontempelli, Jean Claude; and Garet, Pierre, to Rhone-Poulenc S.A. Preparation of alkali metal borohydrides. 3,471,268, 10-7-69, Cl. 23-361.
Bonuchi, James A.; and Evans, Donald L., to Johnson, Gordon, Company. Apparatus for and method of stretching, sealing and removing the tab from packages. 3,471,990, 10-14-69, Cl. 53-22.
Bonvicini, Alberto: *See—*
Cantatore, Giuseppe; and Bonvicini, Alberto,3,454,670.
Bonyhard, Peter I., to Bell Telephone Laboratories, Incorporated. Thin film memory construction having magnetic keeper plates. 3,470,545, 9-30-69, Cl. 340-174.
Bonyhard, Peter I., to Bell Telephone Laboratories, Incorporated. Thin film memory circuit. 3,479,657, 11-18-69, Cl. 340-174.
Bonyhard, Peter I.; and Gianola, Umberto F., to Bell Telephone Laboratories, Incorporated. Magnetic domain wall memory having plural wall positions per bit location. 3,453,609, 7-1-69, Cl. 340-174.
Bonzagni, Francis A., to Monsanto Company. Paper sizing with a diamine amide derivative. 3,427,219, 2-11-69, Cl. 162-168.
Bonzagni, Francis A., to Monsanto Company. Paper treated with alkenyl fatty acid ester/alpha- beta-olefinically unsaturated polycarboxylic acid interpolymer. 3,428,485, 2-18-69, Cl. 117-155.
Bonzagni, Francis A., to Monsanto Company. Resins prepared from amino compounds, aldehydes, polyhydroxyl compounds and monohydric alcohols. 3,479,247, 11-18-69, Cl. 161-26.3
Boodley, Lewis E.: *See—*
Webb, James E., Administrator of the National to an invention of,; Peek, Charles R.; and Boodley, Lewis E.,3,422,213.
Boodman, Emil R.; McGuire, Douglas; and Wilce, Emerson B., to Litton Systems, Inc. Method of making commutator discs. 3,464,108, 9-2-69, Cl. 29-597.
Boodman, Norman S.; Perkins, George W.; and Walter, Jack W., to United States Steel Corporation. Jet fuels from hydrogenated coal tar derivatives and pinane-containing materials. 3,441,497, 4-29-69, Cl. 208-15.
Booe, James M., to Mallory, P. R., & Co., Inc. Hermetically encapsulated electronic device. 3,439,231, 4-15-69, Cl. 317-230.
Booe, James M., to Mallory, P. R., & Co., Inc. Stabilization of solid electrolyte capacitors by means of atmospheric control. 3,466,508, 9-9-69, Cl. 317-230.
Booe, James M.; and Hood, Joseph T., to Mallory, P. R., & Co., Inc. Electrical capacitor for use in adverse environments and method of making the same. 3,465,402, 9-9-69, Cl. 29-25.42
Booher, Robert K., to North American Rockwell Corporation. Carry or borrow system for arithmetic computations. 3,465,133, 9-2-69, Cl. 235-175.
Booher, Robert K., to North American Rockwell Corporation. Signal responsive device. 3,484,625, 12-16-69, Cl. 307-289.
Booher, Russell L., to Shell Oil Company. Lubricating oils containing an antioxidant mixture of zinc and antimony di-alkyl dithiocarbamates. 3,462,367, 8-19-69, Cl. 252-33.2
Booij, Jan G.; and Algra, Halbe, to Aviolanda Maatschappij voor Vliegtuigbouw N.V. Device for aligning eggs. 3,463,292, 8-26-69, Cl. 198-33.
Book, Bernard S.; and Salsburg, John E., to Burlington Industries, Inc. Ornamental fabric. 3,457,738, 7-29-69, Cl. 66-192.
Book Covers, Incorporated: *See—*
Mullen, Edward K.; and Carter, Leewood C., 3,476,406.
Booker, Aylwin R. Electrolysis control system for boats. 3,485,741, 12-23-69, Cl. 204-197.
Booker, Aylwin R. Omnidirectional antenna. 3,487,414, 12-30-69, Cl. 343-793.
Booker, Clyde A., Jr.; and Thompson, Francis T., to Westinghouse Electric Corporation. Phase locked oscillator. 3,448,402, 6-3-69, Cl. 331-8.
Booker, James L.; and Fredrickson, Robert E., to Dow Chemical Company, The. Recovery of oxides of molybdenum from the oxychloride. 3,420,619, 1-7-69, Cl. 23-21.
Bookless, Goerge W.: *See—*
Bishop, Walter F.; and Bookless, Goerge W.,3,447,798.
Bookman, Jack. Teleprompting system utilizing short range transmission TV. 3,461,228, 8-12-69, Cl. 178-6.
Bookout, Charles C., to Ford Motor Company. Friction regulating mechanism. 3,439,557, 4-22-69, Cl. 74-531.
Bookout, Charles C., to Ford Motor Company. Transverse automotive vehicle driveline with a four-speed ratio automatic transmission and simulated overdrive. 3,446,095, 5-27-69, Cl. 74-763.
Bookout, Charles C., to Ford Motor Company. Multiple ratio automatic transmission and axle assembly. 3,473,412, 10-21-69, Cl. 74-695.
Bookout, Charles C.; and Kaptur, Robert E., to Ford Motor Company. Control system for semi-automatic power transmission mechanism. 3,424,284, 1-28-69, Cl. 192-3.33
Bookout, Charles C.; and Moan, Richard D., to Ford Motor Company. Combined hydraulic system for a vehicle transmission mechanism and power steering gear. 3,470,693, 10-7-69, Cl. 60-52.
Bookout, Floyd V., to Rock-Ola Manufacturing Corporation. Can vending mechanism. 3,437,239, 4-8-69, Cl. 221-241.
Bookwalter, George N.: *See—*
Robinson, John W.; Bookwalter, George N.; and Tuschhoff, John V.,3,437,493.
Boomgaard, Dirk J.: *See—*
Arntsen, Arnt P.; and Boomgaard, Dirk J.,3,450,994.
Boomgaard, Dirk J., to Westinghouse Electric Corporation. Tuning circuits for tuning to at least two separate frequency bands. 3,440,545, 4-22-69, Cl. 325-460.
Boon, Joseph L., to Eastman Kodak Company. Optic axis or light path adjusting system for slide projectors. 3,471,229, 10-7-69, Cl. 353-81.
Boon, William. Method for treating materials. 3,469,931, 9-30-69, Cl. 8-137.
Boonan, Douglas D.; and Maxwell, Gary B., to Bausch & Lomb Incorporated. Monochromator device. 3,431,054, 3-4-69, Cl. 356-100.
Boone Bait Co., Inc.: *See—*
Showalter, Joseph S., 3,465,466.
Boone, Byron F. Heavy mover apparatus. 3,486,650, 12-30-69, Cl. 214-390.
Boone, Christopher B. Fluroescent lamp ballast with integral fuseholder and replaceable fuse. 3,441,889, 4-29-69, Cl. 337-1.
Boone, James Vannes. Dental instrument. 3,471,929, 10-14-69, Cl. 32-40.
Boonshaft, Julius C.; and Zeuner, Kenneth W., to Weston Instruments, Inc. High frequency valve. 3,466,003, 9-9-69, Cl. 251-30.
Boop, Gene T., to Profitable Resources Inc. Jet perforating gun arming switch and circuitry. 3,441,093, 4-29-69, Cl. 175-4.55
Boop, John L.; and Hodgson, Robert F., to Commercial Shearing & Stamping Company. Shaft seals. 3,421,769, 1-14-69, Cl. 277-58.
Booras, Peter J. Breadmaking process. 3,424,590, 1-28-69, Cl. 99-90.
Boorman, Colin; and Betts, Colin, to United Kingdom Atomic Energy Authority. Spacer grid for heat exchange elements with mixing promotion means. 3,439,737, 4-22-69, Cl. 165-109.
Boorman, John K., to American Standard, Inc. Method for the manufacture of an anti-sweat closet tank. 3,435,101, 3-25-69, Cl. 264-45.
Boosen, Karl-Josef; Berth, Peter; and Reese, Gunter, to Therachemie chemisch therapeutische Gesellschaft m.b.H. Dyeing of human hair with cationic direct dyes. 3,482,923, 12-9-69, Cl. 8-10.1
Boosen, Karl-Josef: *See—*
Berth, Peter; Reese, Gunter; and Boosen, Karl-Josef,3,464,778.
Booth, Albert B., to Hercules, Incorporated. Conversion of 3-carene to a composition comprised of meta-menthadienes and para-menthadienes in substantial amounts. 3,422,029, 1-14-69, Cl. 252-364.
Booth, Carl H. Combination vacuum cleaner and defroster device. 3,431,581, 3-11-69, Cl. 15-313.
Booth, Dwight A.: *See—*
Williams, Norman C.; and Booth, Dwight A.,3,435,841.
Williams, Norman C.; and Booth, Dwight A.,3,438,607.
Williams, Norman C.; and Booth, Dwight A.,3,472,343.
Booth, Franklin W., to United States of America, National Aeronautics and Space Administration. Condenser-separator. 3,420,069, 1-7-69, Cl. 62-93.
Booth, Fred C. Process and apparatus for suppressing jet engine exhaust noise. 3,448,825, 6-10-69, Cl. 181-35.
Booth, Frederick C.: *See—*
Radke, Donald G.; and Booth, Frederick C.,3,438,674.
Radke, Donald G.; and Booth, Frederick C.,3,446,533.
Radke, Donald G.; and Booth, Frederick C.,3,456,981.
Booth, Galt B., to Textron Electronics, Inc. Moving coil electrodynamic exciter with cooling means. 3,422,293, 1-14-69, Cl. 310-16.
Booth, George M., to Wallace & Tiernan Inc. Inductive transducer with servo system. 3,454,854, 7-8-69, Cl. 318-18.
Booth, Jack J.: *See—*
Fuller, Norris R., 3,474,821.
Booth, Jack J.; and Branch, William C. Carbonator for drink-dispensing machine. 3,472,425, 10-14-69, Cl. 222-129.1
Booth, L. Gordon: *See—*
Wilde, Frederick G.; and Booth, L. Gordon,3,464,690.
Booth, Morris A.; and Booth, Morris F., deceased0 (by Booth, William M.; administrator). Container with pouring spout. 3,481,515, 12-2-69, Cl. 222-529.
Booth, Morris F.: *See—*
Booth, Morris A.; and Booth, Morris F.,3,481,515.
Booth, Raymond L., to North American Rockwell Corporation. Let-off apparatus for textile machine. 3,470,921, 10-7-69, Cl. 139-109.
Booth, Robert A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,430,063.

Booth, Robert Ben: *See—*
Kolodny, Edwin Ralph; and Booth, Robert Ben,3,480,761.
Booth, Robert Ben, to American Cyanamid Company. Flocculation of impurities in alum solutions. 3,425,802, 2-4-69, Cl. 23-123.
Booth, Robert Ben; and Mead, Linda Clarendon, to American Cyanamid Company. Prevention of and removal of scale formation in water systems. 3,463,730, 8-26-69, Cl. 210-58.
Booth, Robert E.: *See—*
Degginger, Edward R.; and Booth, Robert E.,3,442,888.
Booth, Robert E.; and Degginger, Edward R., to Allied Chemical Corporation. Polyurethane foam. 3,424,700, 1-28-69, Cl. 260-2.5
Booth, Stanley Henshaw, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of The. Steering of tracked vehicles. 3,461,744, 8-19-69, Cl. 74-720.5
Booth, Virginia J.: *See—*
Finley, Jerry J., 3,428,971.
Booth, William M.: *See—*
Booth, Morris A.; and Booth, Morris F.,3,481,515.
Booth, William M.; Doornbos, George H.; Rander, Robert H.; and Knutson, John W., to Werner Machinery Company. Control unit for bulk tank washers and the like. 3,445,038, 5-20-69, Cl. 222-56.
Boothe, Floyd G., Jr.: *See—*
Mathe, George L.; and Boothe, Floyd G., Jr.,3,460,418.
Boothe, Jerry E., to Calgon Corporation, mesne. Synthesis of dimethyl diallyl ammonium chloride. 3,461,163, 8-12-69, Cl. 260-567.6
Boothe, Jerry E., to Calgon Corporation, mesne. Process for purifying dialkyl diallyl ammonium chloride and dialkyl dimethallyl ammonium chloride. 3,472,740, 10-14-69, Cl. 203-37.
Boothe, Willis A., to General Electric Company. Method of manufacturing laminated fluid amplifiers. 3,441,996, 5-6-69, Cl. 29-157.
Boothe, Willis A., to General Electric Company. Fluid amplifier and method of manufacture. 3,442,280, 5-6-69, Cl. 137-81.5
Boothe, Willis A., to General Electric Company. Limit override fluidic circuits. 3,485,253, 12-23-69, Cl. 137-81.5
Boothe, Willis A.; Ringwall, Carl G.; and Kelley, Lonny R., to General Electric Company. Fluid controls particularly for turbine engines. 3,461,892, 8-19-69, Cl. 137-18.
Boothe, Willis Affson, to General Electric Company. Fluid amplifier compensation network. 3,451,410, 6-24-69, Cl. 137-81.5
Boothman, Grover, to Polaroid Corporation. Photographic camera or the like with toggle hinge closure means. 3,459,323, 8-5-69, Cl. 220-35.
Boothroyd, Brian: *See—*
Wall, Wilfred Frank; Fatherley, Michael; and Boothroyd, Brian,3,422,103.
Boots Pure Drug Company Limited: *See—*
Brookes, Robert Frederick; Godson, David Henry; and Leafe, Edward Levi, 3,439,018.
Bryce, Douglas Maxwell; and Rooke, Michael Brian, 3,479,428.
Fraser, James; and Harrison, Ian Robert, 3,478,153.
Towlerton, Richard George; and Lord, John Gilbert, 3,487,434.
Booty, Donald J., to Spartus Corporation. Scene in motion. 3,419,989, 1-7-69, Cl. 40-160.
Booy, Max L., to Du Pont de Nemours, E. I., and Company. Flow inversion insert. 3,470,913, 10-7-69, Cl. 138-37.
Booy, Max Lorenz; Coe, Benjamin Franklin; and Stutler, Stephen Charles, to Du Pont de Nemours, E. I., and Company. Method of measuring metering accuracy of a spinneret. 3,433,055, 3-18-69, Cl. 73-37.5
Bopp & Reuther GmbH: *See—*
Bischoff, Karl; and Kirsch Heinrich, 3,442,294.
Bopp, Joseph E.: *See—*
Simms, Michael L.; and Bopp, Joseph E.,3,467,458.
Bopparder Maschinenbaugesellschaft m.b.H.: *See—*
Mozdzanowski, Joachim V. B., 3,435,741.
Boppart, Loren P., to Starline, Inc. Silo unloader. 3,450,277, 6-17-69, Cl. 214-17.
Borah, John E. Axially rotatable tool and handle therefor. 3,438,413, 4-15-69, Cl. 145-50.
Borbonese, Mario; De Ros, Angelo; and Pifferi, Giorgio, to Lepetit S.p.A. Apparatus for automatic reduced pressure semi-micro distillation of liquid decomposing at boiling point under atmospheric pressure. 3,461,040, 8-12-69, Cl. 202-238.
Borchardt, Hans J., to Du Pont de Nemours, E. I., and Company. Single crystals. 3,437,432, 4-8-69, Cl. 23-51.
Borchardt, June E. Stake. 3,456,660, 7-22-69, Cl. 135-15.
Borchert, Alfred E.: *See—*
Capaldi, Eugene C.; and Borchert, Alfred E.,3,457,318.
Borchert, Alfred E.; and Capaldi, Eugene C., to Atlantic Richfield Company. Method of making the bromohydrin of 2,3,4,5,6- pentamethylstyrene. 3,465,046, 9-2-69, Cl. 260-618.
Borchert, Alfred E.; Mekler, Arlen B.; and Sauer, Richard W., to Atlantic Richfield Company. Olefin polymerization catalyst based on aluminum pyrolate. 3,485,770, 12-23-69, Cl. 252-429.
Goldstein, David A.; Nystrom, Roy; Borchert, Alfred; and Eneman, Melvin,3,485,172.
Borchert, Ernst, III: *See—*
Adams, Ralph D.; Borchert, Ernst, III; and Herzog, Robert P.,3,421,542.
Borchert, Peter Jochen, to Miles Laboratories, Inc. Process for improving the strength of wool or silk fibers and products thereof. 3,479,128, 11-18-69, Cl. 8-127.6
Borcovec, Werner, to Gosta Trading Ltd. Apparatus for the production of flexible foam plastic articles. 3,452,390, 7-1-69, Cl. 18-4.
Borden Company, The: *See—*
Bouchard, Robert Thomas; Dickstein, Jack; and Dean, Donald Eugene, 3,442,844.
Columbus, Peter Spiros; and Erikson, Carl Reinhold, 3,442,845.
Dickstein, Jack; Cooperman, Isadore Nathan; and Cesanek, James John, 3,442,831.
Gattenby, Miles N., Jr.; and D'Amato, Anthony S., 3,479,308.
Hale, James F.; and Tressler, Donald K., 3,470,000.
Halpern, Benjamin D., 3,432,512.
Hollingsworth, Clinton Allen; and Sapp, Bobby L., 3,421,621.
Hoyt, Howard E.; and Pfluger, Helmuth L., 3,442,674.
Matz, Samuel A., 3,438,791.
Mills, John Arthur, 3,437,542.
Murphy, Allen Milton, Jr.; Retzke, Franklin Albert; and Johnson, John Raymond, 3,479,175.
Sandler, Stanley Robert; and Leonard, Edward Charles, 3,422,072.
Sandler, Stanley Robert; and Berg, Florence Ray, 3,425,960.
Sandler, Stanley Robert; and Berg, Florence Ray, 3,437,671.
Sandler, Stanley Robert; Berg, Florence Ray; and Kitazawa, George, 3,442,752.
Van Wieren, Wilhelmine H.; and Damisch, George A., 3,420,811.
Walz, Harry George, 3,469,680.
Zawadzki, Thomas; Reventas, Algirdas A.; and Lee, Richard M., 3,423,347.
Borden, Douglas G.; Unruh, Cornelius C.; and Merrill Stewart H., to Eastman Kodak Company. Light-sensitive polymers having a linear chain containing the styryl ketone group. 3,453,237, 7-1-69, Cl. 260-47.
Borden, Inc.: *See—*
Bartell, Charles; Milutin, Ivan Cutukovic; Porsche, Jules Downes; and Rolih, Robert John, 3,475,196.
Boyne, William J.; Little, Jack R.; and Wagner, Ulrich, 3,432,993.
Britton, Richard K.; Christopher, John P.; Vegella, John S.; and Neuss, William H., 3,484,338.
Golner, Jerold Julius, 3,429,504.
Hollingsworth, Clinton A.; and Sap, Bobby L., 3,454,159.
Lane, Malcolm S.; and Hawk, Dale A., 3,461,646.
Loshaek, Samuel; and Salzberg, Harold K., 3,421,918.
Mook, Donald E.; and McRoberts, Patrick L., 3,459,561.
Snow, Harold F., 3,460,595.
Sommer, William Albert, 3,466,996.
Borden, James H.: *See—*
Charman, Walter M., Jr.; and Borden, James H.,3,433,452.
Charman, Walter M. Jr.; and Borden, James H.,3,468,368.
Borden, Jay R.; Boutin, Lucien J.; Geis, Everett R.; and Krauthamer, Stanley, to Borg-Warner Corporation. D. C.-to-D. C. converter. 3,452,266, 6-24-69, Cl. 321-18.
Borden, Jay R.; Geis, Everett R.; Lamaster, Donald M.; and Krauthamer, Stanley, to Borg-Warner Corporation. Demodulator for controlling motor torque angle to stabilize a synchronous motor energized from an inverter. 3,482,157, 12-2-69, Cl. 318-227.
Borden, John R., to Tridair Industries, mesne. Container to base flexible connection. 3,424,331, 1-28-69, Cl. 220-1.5
Borden, John R., to Tridair Industries, mesne. Removable closure and fastening means. 3,485,406, 12-23-69, Cl. 220-1.5
Borden, Kern C. Metal conditioning bath comprising sodium hydroxide, nitric acid and gum arabic. 3,425,854, 2-4-69, Cl. 106-208.
Bordenca, Carl, to SCM Corporation, mesne. Salt of β-propiolactone adduct of rosin and sizing compositions made therefrom. 3,423,220, 1-21-69, Cl. 106-238.
Bordenca, Carl; and Derfer, John M. β-Dialkylaminoalkyl ethers and thioethers. 3,446,843, 5-27-69, Cl. 260-563.
Bordenca, Carl; Derfer, John Mentzer; and Hamby, Clayton B., to SCM Corporation, mesne. Copper sweetening pretreating before isomerizing alpha-pinene. 3,420,910, 1-7-69, Cl. 260-675.5
Borders, Thurman J.: *See—*
Damron, Cordell; and Borders, Thurman J.,3,446,502.
Bordner, Paul G., to Crane Plastics, Inc. Combination interlocked and weather seal strip arrangement for relatively slidable closure members. 3,432,966, 3-18-69, Cl. 49-368.
Bordons & Oliver, Inc.: *See—*
Kylin, Henrik O., 3,448,643.
Bore, Raymond, to Bennes Marrel. Pit prop with self-centering cap. 3,425,656, 2-4-69, Cl. 248-357.
Borel, George, to Plessey Fabrieken N. V., mesne. Temperature-controlled sprayer apparatus. 3,463,396, 8-26-69, Cl. 239-70.
Borel, Ronald F., to General Electric Company. Fuel delivery system. 3,433,016, 3-18-69, Cl. 60-39.28

Borel, Ronald F.: *See—*
Snow, Barton H.; and Borel, Ronald F.,3,472,027.
Borell, James J. Combining system for musical instruments. 3,465,086, 9-2-69, Cl. 84-1.16
Boren, John E.: *See—*
Hirschberg, Kenneth A.; and Boren, John E.,3,445,807.
Borenstein, David P.; and Wright, Arden B., to Bell Telephone Laboratories, Incorporated. Active equalizer circuit. 3,444,474, 5-13-69, Cl. 330-31.
Borer, Alvin F., to International Milling Company Inc. Cale doughnut mixes. 3,481,745, 12-2-69, Cl. 99-92.
Borer, Herbert W.; Ehlke, Charles C.; and Svoboda, James, to Caterpillar Tractor Company. Loader frame for track-type loaders. 3,432,051, 3-11-69, Cl. 214-140.
Boretti, Napoleon P.; Bratton, Wilson T.; and Tolstyka, Joseph R., to General Motors Corporation. Method of spray coating a series of articles including the application of different colors to different articles. 3,477,870, 11-11-69, Cl. 117-105.3
Borg, Arthur C.: *See—*
Den Herder, Marvin J.; and Borg, Arthur C.,3,455,896.
Borg Holding Aktiengesellschaft, and Farbenfabriken: *See—*
Peter Van Dillen, Paul Joan; Vollmer, Eva Maria; Kallfass, Herbert; and Zimmermann, Max, 3,428,488.
Borg, Lester W., to Motorola, Inc. Tone control. 3,431,357, 3-4-69, Cl. 179-1.
Borg, Nils Gunnar H.: *See—*
Bergstrom, Erik W.; and Borg, Nils Gunnar H.,3,435,648.
Borg, Sven-Bertil: *See—*
Bjork, Nils Arvid Norman; and Borg, Sven-Bertil,3,430,045.
Borg-Warner Corporation: *See—*
Albertson, Clarence E., 3,471,384.
Albertson, Clarence E., 3,481,775.
Anderson, James H.; and Spruitenburg, Marinus J., 3,467,419.
Anyos, Tom; and Moyer, Wendell W., Jr., 3,423,483.
Ball, Rowland E., 3,459,430.
Ball, Rowland E., 3,478,689.
Bangerter, Kenneth R.; and Bernhardt, Harold A., 3,457,733.
Bebbington, John, Jr.; and Cozzarin, Edward, 3,469,465.
Boehmer, Andrew P.; and Jaremus, Boubene M., 3,451,904.
Borden, Jay R.; Boutin, Lucien J.; Geis, Everett R.; and Krauthamer, Stanley, 3,452,266.
Borden, Jay R.; Geis, Everett R.; Lamaster, Donald M.; and Krauthamer, Stanley, 3,482,157.
Conkle, Carl J., 3,452,614.
Cozzarin, Edward; Nemeth, Emery; and Paul, William T., 3,469,468.
Davidson, Robert R., 3,421,532.
de Perczel, Desi, 3,435,164.
Diver, John R., 3,446,474.
Dockus, Kostas F.; and Zambrow, John L., 3,482,305.
Engle, Jack F.; and Jeakle, William G., 3,429,400.
Fisher, Jack M.; and Conkle, Carl J., 3,444,752.
Fox, Clarence D., 3,421,483.
Gasser, Kurt, 3,439,242.
Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,483,633.
Geis, Everett R., 3,435,248.
Geis, Everett R., 3,447,050.
Grabowski, Thomas S., 3,442,977.
Grabowski, Thomas S., 3,442,980.
Grabowski, Thomas S., 3,449,470.
Gyory, Emeric J., 3,452,994.
Hanzi, Carl Wesley; and Hayden, Gordon Francis, 3,438,285.
Harlin, Lester E., 3,476,309.
Harlin, Lester E.; and Moore, Walter C., 3,478,957.
Harlin, Lester E., 3,480,204.
Heatwaite, Hewart H.; Mead, Robert H.; and Paul, William T., 3,469,466.
Hegyi, Moses, 3,461,714.
Hein, Charles E.; and Tennies, James O., 3,439,963.
Hein, Charles E., 3,447,342.
Hein, Charles E., 3,482,667.
Hendry, James W., 3,425,673.
Hoeg, Donald F., 3,439,053.
Holdeman, John W., 3,459,070.
Houston, Harry H.; Keitel, Gerald A.; and Williamson, William R., 3,429,720.
Jednacz, Thomas C.; and Schmittle, Karl V., 3,434,032.
Jednacz, Thomas C., 3,437,904.
Jednacz, Thomas C., 3,439,509.
Johnson, Lee; Arthur, Ralph P.; and Schweiker, George C., 3,458,601.
Keats, John B., 3,451,368.
Keats, John B., 3,478,714.
Kelbel, Donald W., 3,440,904.
Kelley, Paul D., 3,485,201.
Kinkel, John F., 3,480,739.
Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr., 3,445,350.
Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr., 3,479,160.
Kraeplin, Robert C., 3,478,853.
Kurtz, Curtis E., 3,433,035.
Kurtz, Curtis E., 3,444,709.
Kurtz, Curtis E., 3,460,347.
La Mar, William F.; and Pruim, Fred, 3,481,286.
La Masters, George D., 3,479,816.
Lindquist, Terry K., 3,455,423.
Mamo, Anthony C., 3,438,458.
Marrujo, Fernando G.; and Wiese, Winfred J., 3,447,809.
McAninich, Herbert A.; and Underwood, Herbert N., 3,443,405.
McIntosh, Arthur M., 3,429,144.
McMillen, Kenneth G., 3,476,148.
Moore, Glenn W., 3,484,113.
Moore, Lane D.; and Randall, John J., 3,442,829.
Newton, Alwin B., 3,425,485.
Newton, Alwin B., 3,433,025.
Newton, Alwin B., 3,474,632.
Oddy, Edward P., 3,437,134.
Pinkas, Peter F., 3,479,039.
Randa, Gerald; and Stephens, William T., 3,479,963.
Schmittle, Karl V., 3,438,214.
Schultz, John M., 3,445,695.
Seaman, Thomas R., 3,469,467.
Shattuck, Robert, 3,476,852.
Smirl, Richard L., 3,468,337.
Smith, Herman E., 3,435,402.
Sorensen, Svend E., 3,459,005.
Stephens, William T.; and Prevallet, David N., 3,446,020.
Stokely, Raymond E., 3,431,751.
Stowell, Philip A., 3,439,650.
Studtmann, George Henry; and Burtness, Roger W., 3,467,904.
Szymanski, Leonard W., 3,452,726.
Taggart, Lawrence T., 3,465,983.
Thourson, Thomas L., 3,458,655.
Tracy, Herbert E., 3,479,040.
Tracy, Herbert E., 3,486,760.
Turner, Edward C.; and Poyser, John, 3,463,025.
Tuzson, John, 3,486,454.
Underwood, Herbert N.; and Moochhala, Yunus E., 3,443,381.
Wiese, Winfred J., 3,433,489.
Wile, Daniel D.; Adachi, Shizuo R.; and Brainard, David S., 3,429,139.
Zeidler, Reinhold C., 3,422,943.
Borgeas, Alexander T. Foot and leg exerciser. 3,430,956, 3-4-69, Cl. 272-83.
Borgen, William E. Doorstop device. 3,484,891, 12-23-69, Cl. 16-86.
Borger, George F. Fishing lures. 3,483,651, 12-16-69, Cl. 43-42.36
Borger, Heinrich: *See—*
Reichle, Alfred; Wandel, Martin; and Borger, Heinrich,3,421,857.
Borgersen, Roland D. Hardness tester. 3,478,568, 11-18-69, Cl. 73-81.
Borgerud Mfg. Co., Inc.: *See—*
Brane, Earl P., 3,473,481.
Borges, Eberhard. Method of and apparatus for detecting faults in subsurface strata. 3,433,321, 3-18-69, Cl. 181-0.5
Borgfeldt, Merton J., to Chevron Research Company. Cationic bituminous emulsions for use in slurry seal treatments. 3,423,221, 1-21-69, Cl. 106-277.
Borgford, William Henry. Game helmet. 3,456,947, 7-22-69, Cl. 273-102.1
Borggreen, Georg. Method of disposal of refuse. 3,471,275, 10-7-69, Cl. 48-209.
Borgman, Arthur C.: *See—*
Nesslinger, Fritz J.; and Borgman, Arthur C.,3,422,976.
Borgnakke, Ejvind Cai. Magnetically actuated liquid level indicator. 3,484,774, 12-16-69, Cl. 340-244.
Borgs Fabriks AB: *See—*
Carlsson, Sixten Einar, 3,468,500.
Borgwaldt, Heinz-Erik Bernhard Daniel: *See—*
Grunwald, Georg; Otto, Hans-Dietrich; and Borgwaldt, Heinz-Erik Bernhard Daniel,3,424,170.
Boring and Boring, Inc.: *See—*
Scourtas, Charles C., 3,470,718.
Boring, Kenneth L.; and Downing, Robert D., to General Electric Company. Electron beam welder. 3,479,483, 11-18-69, Cl. 219-121.
Boris, Meszaros, Erika: *See—*
Kasztreiner, Endre; Borsi, Jozsef; Vargha, Laszlo; Boris, Meszaros, Erika; and Szilagyi, Geza,3,432,549.
Borish, Irvin M., to Indiana Contact Lens, Inc. Apparatus for altering the power of a corneal contact lens. 3,430,391, 3-4-69, Cl. 51-105.
Borisof, Bernard. Method and machine for building tunnels. 3,442,088, 5-6-69, Cl. 61-44.
Borisov, Igor Sergeevich: *See—*
Vinogradov, Alexandr Sergeevich; Kapustin, Jury Mikhailovich; Maxjutenko, Ilya Nikolaevich; Kiselnikov, Vladimir Nikolaevich; Borisov, Igor Sergeevich; and Mazalov, Ivan Mikhailovich,3,419,940.

Borkan, Harold, to Radio Corporation of America. Solid state image pickup device utilizing insulated gate field effect transistors. 3,435,138, 3-25-69, Cl. 178-7.1

Borkey, Karl August, to Borkey, Walter, KG. Lifting dolly. 3,480,292, 11-25-69, Cl. 280-43.17

Borkey, Walter, KG.: *See*—
Borkey, Karl August, 3,480,292.

Borkmann, Frank Frederick: *See*—
Bofinger, Karl; Borkmann, Frank Frederick; and Stone, George Martin,3,441,156.

Borkovec, Alexej B.; and Settepani, Joseph A., to United States of America, Agriculture. Insect chemosterilants derived from boron. 3,463,851, 8-26-69, Cl. 424-185.

Borkowski, Casimer J.; and Kopp, Manfred K., to United States of America, Atomic Energy Commission. Position-sensitive radiation detector. 3,483,377, 12-9-69, Cl. 250-83.3

Borman, Aleck: *See*—
Myers, Dirck V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B.,3,458,397.

Borman, Willem, to General Electric Company. Oxidation of halophenols. 3,431,238, 3-4-69, Cl. 260-47.

Bormann, Heinrich; and Nordt, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of polyethers. 3,445,525, 5-20-69, Cl. 260-615.

Bormann, Hermann; and Von Schell, Jurgen, to Dyckerhoff & Widmann Kommanditgesellschaft. Apparatus for holding threaded sleeves in the shell form for producing concrete rail ties. 3,471,118, 10-7-69, Cl. 249-91.

Bormann, Ralph B.: *See*—
Uralli, Samil S.; and Bormann, Ralph B.,3,469,783.

Born, Alfons, to Dom-Somen GmbH. Method and apparatus for sorting coded seed bags. 3,446,351, 5-27-69, Cl. 209-111.7

Born, David F. Sliced circuitry. 3,426,426, 2-11-69, Cl. 29-624.

Born, Gerald C.; and Wesson, Guy W., to General Motors Corporation. Lubricant purging sealed ball joint assembly. 3,476,417, 11-4-69, Cl. 287-87.

Born, Klaus: *See*—
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,476,955.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,484,493.

Bornarth, Dennis M., to Addressograph-Multigraph Corporation, Charles Bruning Division. Photoelectrostatic recording member useful for contact photoprinting. 3,481,734, 12-2-69, Cl. 96-1.

Bornberg, John D.: *See*—
Vospalek, Bojan; and Bornberg, John D.,3,462,279.

Bornefeld, Heinz, to Gebr. Happich G.m.b.H. Sun visor, particularly for automotive vehicles. 3,429,610, 2-25-69, Cl. 296-97.

Bornefeld, Horst: *See*—
Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, Hans-Joachim; Bornefeld, Horst; and Deissmann, Walter,3,451,835.

Bornemisza, Elmer S., to Bell & Howell Company. Purified agar silver halide photographic processing web. 3,425,832, 2-4-69, Cl. 96-61.

Borner, Gerhard: *See*—
Sauer, Edgar; and Borner, Gerhard,3,427,552.

Borner, Manfred; and Schussler, Hans, to Telefunken Patentverwertungsgesellschaft m.b.H. Piezoelectric plate filter. 3,437,848, 4-8-69, Cl. 310-8.2

Borner, Manfred; and Spitzner, Jurgen, to Telefunken Patentverwertungs-gesellschaft m.b.H. Mechanical frequency filter with additional coupling to increase slope of damping rise. 3,445,792, 5-20-69, Cl. 333-71.

Borner, Peter, to Schering A.G. Thermoplastic copolyureas based upon 1 amino-3- aminomethyl 3,5,5-trimethyl cyclohexane. 3,484,412, 12-16-69, Cl. 260-77.5

Bornig, Karl-Heinz: *See*—
Obrowski, Walter; Bornig, Karl-Heinz; and Schrufer, Elmar,3,444,373.

Bornor, June Richard, to Alco Standard Corporation. Heat treating method and apparatus. 3,447,788, 6-3-69, Cl. 263-6.

Bornor, June Richard, to Alco Standard Corporation. Heat treating furnace with shielding packs. 3,456,935, 7-22-69, Cl. 263-40.

Bornslaeger, Stephan R.: *See*—
Hechtman, John F.; and Bornslaeger, Stephan R.,3,464,848.

Bornstein, Leopold F., to Georgia-Pacific Corporation. Curing phenol-aldehyde novolak resins employing aniline or aniline HCl. 3,471,443, 10-7-69, Cl. 260-56.

Bornstein, Leopold F., to Georgia-Pacific Corporation. Curing resorcinol-aldehyde resol resins employing aniline or aniline salts. 3,476,706, 11-4-69, Cl. 260-54.

Bornstein, Norman D., to Grace, W. R., & Co. Thermoplastic polymer of a monoolefin. 3,463,752, 8-26-69, Cl. 260-27.

Bornstein, Richard W.: *See*—
Glucksman, Dov Zeev; and Bornstein, Richard W.,3,459,365.

Bornstein, Richard W., to Torrington Manufacturing Company, The. Transverse flow blower for discharging fluid in a path defined by a surface. 3,446,426, 5-27-69, Cl. 230-125.

Bornzin, James H., to International Harvester Company. Counterbalance mechanism for harvesters. 3,424,471, 1-28-69, Cl. 280-43.18

Bornzin, James H., to International Harvester Company. Safety power take-off for tractors. 3,440,890, 4-29-69, Cl. 74-11.

Bornzin, James H., to International Harvester Company. Unitized baling, bale accumulating, and transporting apparatus. 3,450,033, 6-17-69, Cl. 100-100.

Boronichev, Gennady Konstantinovich: *See*—
Nesvizhsky, Jury Borisovich; Pavlov, Sergei Vasilievich; and Boronichev, Gennady Konstantinovich,3,425,013.

Boronkay, Attila D., to Beckman Instruments, Inc. Compensated parabolic network for providing 100% adjustment in a recording radiant energy analyzer. 3,436,541, 4-1-69, Cl. 250-83.3

Boronkay, Attila Denes, to Beckman Instruments, Inc. Spectrophotometer having magnetic slit-servo system. 3,459,481, 8-5-69, Cl. 356-95.

Boroschewski, Gerhard; and Pieroh, Ernst Albrecht, to Schering A.G.N-(N'-lower alkylcarbamoyloxy)-imides. 3,481,951, 12-2-69, Cl. 260-326.

Boroschewski, Gerhard: *See*—
Steinhausen, Walter; Jager, Albert; Boroschewski, Gerhard; Peissker, Horst; and Arndt, Horst,3,484,526.

Borovicka, David A.; Reich, William E.; and Pratt, Ivor, to SCM Corporation, mesne. Hydroxyl substituted linear thermoplastic vinyl copolymers coating compositions, and protective coatings containing same. 3,475,366, 10-28-69, Cl. 260-32.8

Borovik, Nikolai Alexandrovich: *See*—
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich,3,443,836.

Borowiec, Frank; and Borowiec, Stanley. Balanced fuel injection pump. 3,455,246, 7-15-69, Cl. 103-2.

Borowiec, Stanley: *See*—
Borowiec, Frank; and Borowiec, Stanley,3,455,246.

Borowitz, Grace B.: *See*—
Rauhut, Michael M.; Borowitz, Grace B.; and Grayson, Martin,3,422,149.

Borre, Earl A.: *See*—
Schmidt, Henry, Jr.; and Borre, Earl A.,3,438,502.

Borrebach, Edwin J., to Westinghouse Electric Corporation. Control system providing supply circuit impedance balance control for electric arc furnaces. 3,431,344, 3-4-69, Cl. 13-12.

Borregard, Ernst. Dry transfer sheet for transferring images having varied surface characteristics. 3,454,458, 7-8-69, Cl. 161-167.

Borrel, Marcel; and Konareff, Jean, to Ugine Kuhlmann. Extractive distillation of acrylonitrile with side stream impurity withdrawal. 3,445,347, 5-20-69, Cl. 203-96.

Borrel, Marcel; and Konareff, Jean, to Ugine Kuhlmann. Separation of acrylonitrile from vapor-phase reaction mixtures by extractive distillation with controlled pH of the mixture. 3,459,639, 8-5-69, Cl. 203-37.

Borrelli, Nicholas F.; Herczog, Andrew; and Maurer, Robert D., to Corning Glass Works. Electro-optic device with birefringent crystals embedded in a glass matrix. 3,467,463, 9-16-69, Cl. 350-150.

Borresen, Sven C. Holder device for service records for a machine. 3,466,774, 9-16-69, Cl. 40-10.

Borrevang, Poul, to Novo Terapeutisk Laboratorium A/S. 3-Spiro-3'-diaziridine-and-3'-diazirine- derivatives of the androstane and estrane series. 3,459,739, 8-5-69, Cl. 260-239.5

Borrevang, Poul; and Faarup, Peter, to Novo Terapeutisk Laboratorium A/S. Steroid diazirines and diaziridines and a process for producing same. 3,445,461, 5-20-69, Cl. 260-239.5

Borris, Ralph J.: *See*—
Wendt, John A.; and Borris, Ralph J.,3,462,616.

Borrok, Martin J.: *See*—
Perkinson, Robert E.; and Borrok, Martin J.,3,456,256.

Borrows, Paul Kenneth: *See*—
Borucki, James S.; and Borrows, Paul Kenneth,3,485,758.

Bors, Hans: *See*—
Schwemmer, Martin; Kunz, Werner; and Bors, Hans,3,443,322.

Borsi, Jozsef: *See*—
Kasztreiner, Endre; Borsi, Jozsef; Vargha, Laszlo; Boris, Meszaros, Erika; and Szilagyi, Geza,3,432,549.

Borsig Aktiengesellschaft: *See*—
Boldt, Heinz, 3,446,479.

Borsini, Giancarlo: *See*—
LoMonaco, Sergio; Melacini, Paolo; Borsini, Giancarlo; Magagnin, Luigi Ciligot; and Visani, Francesco,3,476,727.

Borsook, Pavel Afanasievich: *See*—
Liass, Abram Moiseevich; and Borsook, Pavel Afanasievich,3,424,600.

Borst, Gijsbertus Hendricus: *See*—
Vorst, Herman Louis; and Borst, Gijsbertus Hendricus,3,422,570.

Borst, Kenneth C.; and Barnes, Roscoe C., said Barnes assor. to said Borst. Escaped gas venting apparatus. 3,436,197, 4-1-69, Cl. 48-192.
Borst, William B., Jr., to Universal Oil Products Company. Alkylation process utilizing an air-cooled reactor. 3,456,033, 7-15-69, Cl. 260-683.48
Borst, William B., Jr., to Universal Oil Products Company. Alkylation apparatus forming an upwardly spiralling flow path of reactants. 3,469,949, 9-30-69, Cl. 23-285.
Borst, William B., Jr., to Universal Oil Products Company. Method for the conversion of hydrocarbons. 3,471,398, 10-7-69, Cl. 208-111.
Borst, William B., Jr., to Universal Oil Products Company. Method for the conversion of hydrocarbons. 3,475,324, 10-28-69, Cl. 208-111.
Borst, William B., Jr., to Universal Oil Products Company. Absorption process. 3,477,946, 11-11-69, Cl. 208-344.
Borst, William B., Jr., to Universal Oil Products Company. Method for the conversion of hydrocarbons. 3,481,860, 12-2-69, Cl. 208-111.
Borst, William B., Jr., to Universal Oil Products Company. Method for the conversion of hydrocarbons. 3,487,008, 12-30-69, Cl. 208-111.
Borst, William B., Jr.: *See*—
Gantt, James E.; and Borst, William B., Jr.,3,477,915.
Borstlap, Cornelis; and Bakker, Pieter M., to Shell Oil Company. Hydroxyalkyl ether substituted tertiary amines. 3,449,432, 6-10-69, Cl. 260-584.
Borston, Sidney M. Stands particularly for hair curlers. 3,456,806, 7-22-69, Cl. 211-60.
Borsum, Adolph W.; and Borsum, William K. Push-pull connector having combined seal and locking ring. 3,447,819, 6-3-69, Cl. 285-111.
Borsum, Adolph W.; and Borsum, William K. Hydraulic-filament dental device. 3,472,247, 10-14-69, Cl. 132-91.
Borsum, Adolph W.; and Borsum, William K. Mixing, dispensing and metering device. 3,472,267, 10-14-69, Cl. 137-268.
Borsum, William K.: *See*—
Borsum, Adolph W.; and Borsum, William K.,3,447,819.
Borsum, Adolph W.; and Borsum, William K.,3,472,247.
Borsum, Adolph W.; and Borsum, William K.,3,472,267.
Borth, Paul; and McKeone, Joseph, to Photo-Engravers Research Institute, Incorporated. Composition and process for powderless etching. 3,458,371, 7-29-69, Cl. 156-14.
Borth, Paul; and McKeone, Joseph, to Photo-Engravers Research Institute, Incorporated. Powderless etching. 3,458,372, 7-29-69, Cl. 156-14.
Bortle, William J. Wallet loss prevention device. 3,462,801, 8-26-69, Cl. 24-3.
Borucki, Anthony J.: *See*—
McHollan, James A.; and Borucki, Anthony J.,3,468,448.
Borucki, James S.; and Borrows, Paul Kenneth, to Magnaflux Corporation. Method of making fluorescent magnetic particles. 3,485,758, 12-23-69, Cl. 252-62.52
Borup, Lennart; and Olson, Per-Erik. Systems for holding rails on sleepers of railway tracks. 3,484,043, 12-16-69, Cl. 238-283.
Borzel, Paul; and Kennedy, Joseph P., to Esso Research and Engineering Company. Halogenated polymers and copolymers of 4-methylpentene-1 and 4-methyl-hexene-1. 3,484,423, 12-16-69, Cl. 260-88.2
Borzoni, John M., to Littelfuse, Inc., mesne. Miniature current overload fuse. 3,436,711, 4-1-69, Cl. 337-198.
Borzym, Alexander. Power drive for machine elements. 3,460,421, 8-12-69, Cl. 83-311.
Bos, Andre Gerard. Panel clamping device. 3,477,751, 11-11-69, Cl. 287-189.36
Bos, Jules; Koorneef, Jacob; and Walther, George Ludwig, to U.S. Philips Corporation, mesne. Composite magnetic recording and/or play-back head with two side erasing heads having electrically conductive strips. 3,485,958, 12-23-69, Cl. 179-100.2
Bos, Jules: *See*—
Walther, George Ludwig; Koorneef, Jacob; and Bos, Jules,3,474,528.
Bos, Marinus Anton, to U.S. Philips Corporation, mesne. Frequency divider having a first decade with an adjustable counting length that is repeatable during each divider cycle. 3,456,200, 7-15-69, Cl. 328-48.
Bos, Ronald D.: *See*—
Brunson, Bruce W.; and Bos, Ronald D.,3,459,088.
Buist, Robert L.; and Bos, Ronald D.,3,455,442.
Bosak, William L. Therapeutic device. 3,446,210, 5-27-69, Cl. 128-254.
Bosc, Pierre, to Rhone-Poulenc S.A. Phenthiazine derivatives. 3,484,438, 12-16-69, Cl. 260-243.
Boscarino, Frank, to Universal Oil Products Company, mesne. Beverage dispensing apparatus. 3,465,668, 9-9-69, Cl. 99-282.
Bosch, Robert, Elektronik GmbH: *See*—
Ackermann, Karl, 3,434,029.
Bosch, Robert, Elektronik und Photokino G.m.b.H.: *See*—
Heinzmann, Rolf, 3,456,570.
Riedel, Wolfgang; and Luz, Siegbert, 3,462,974.
Wilharm, Theo, 3,460,889.
Bosch, Robert, G.m.b.H.: *See*—
Arendt, Alfred; Nagele, Erwin; and Wolf, Karl, 3,485,226.
Babitzka, Rudolf; Baumann, Gunther; Hoelle, Hermann; and Scholl, Hermann, 3,463,129.
Bacher, Gottlob; and Fehrenbach, Siegfried, 3,439,987.
Bauerle, Wilhelm; and Rentsch, Wolfgang, 3,463,951.
Beesch, Otto, 3,434,461.
Beesch, Otto, 3,449,638.
Bessiere, Pierre Etienne, 3,444,849.
Blaich, Emil; and Niemann, Gert, 3,485,678.
Blume, Willi, 3,450,907.
Brand, Guenter; and Pfrommer, Gustav, 3,435,264.
Burger, Karl-Heinz, 3,469,469.
Clauss, Siegbert; Hurst, Kurt; and Ortlieb, Alfred, 3,466,658.
Dietl, Franz, 3,486,106.
Dietl, Franz W.; and Kuhn, Edgar, 3,463,997.
Eckert, Konrad, 3,450,353.
Eisele, Hermann; Rabus, Friedrich; and Rimatzki, Walter, 3,470,854.
Espenschied, Helmut; and Jackel, Johann, 3,429,194.
Glockler, Otto; and Reichardt, Wolfgang, 3,430,616.
Greulich, Heinz; Schumacher, Karl; Leinauer, Erich; and Widl, Gerhard, 3,471,824.
Hefftner, Arnulf, 3,440,108.
Hettich, Alfred, 3,452,226.
Hettich, Alfred; Schadlich, Fritz; Walz, Heinz; and Paule, Kurt, 3,475,780.
Hoelle, Hermann; Kind, Wilhelm; and Scholl, Hermann, 3,452,727.
Hohne, Gerd, 3,447,522.
Hohne, Gerd, 3,482,560.
Hoyer, Karl; and Ortlieb, Alfred, 3,446,943.
Hoyer, Karl, 3,459,006.
Hurst, Kurt; and Ortlieb, Alfred, 3,453,649.
Hurst, Kurt, 3,472,438.
Kolb, Erich, 3,465,378.
Kramer, Manfred; Mayer, Siegfried; Reichert, Rudolf; Rose, Klaus; and Zirps, Wilhelm, 3,425,593.
Krauss, Heinz, 3,450,977.
Kuhn, Edgar, 3,443,200.
Kuhn, Edgar, 3,477,015.
Kuhn, Edgar, 3,447,065.
Lang, Herbert, 3,425,401.
Lutz, Hans; Gailing, Otto; and Klingbeil, Werner, 3,429,051.
Mainka, Hubert, 3,473,186.
Messerschmidt, Friedrich, 3,450,351.
Mittag, Hermann; Ehrmann, Wilhelm; and Fuessle, Klaus, 3,484,675.
Moller, Heinz; and Schupp, Karl, 3,422,421.
Ortlieb, Alfred, 3,429,991.
Paule, Kurt; Bleicher, Manfred; Martin, Hans; Wanner, Karl; Bronnert, Helmut; and Koehler, Heinrich, 3,456,740.
Reber, Harald, 3,457,112.
Reber, Harald, 3,462,303.
Reichardt, Wolfgang; Eichler, Dieter; Scholl, Hermann; and Wahl, Josef, 3,463,130.
Reichardt, Wolfgang, 3,483,851.
Reichert, Ludwig; and Heinlein. Werner, 3,465,112.
Schadlich, Fritz, 3,463,950.
Schallert, Heino, 3,463,392.
Scholl, Hermann, 3,423,604.
Scholl, Hermann, 3,429,302.
Scholl, Hermann; Rabus, Friedrich; Eichler, Dieter; Kadelbach, Volker; Reichardt, Wolfgang; and Schmidt, Peter Jurgen, 3,433,101.
Scholl, Hermann; Kadelbach, Volker; and Reichardt, Wolfgang, 3,439,564.
Scholl, Hermann, 3,448,728.
Scholl, Hermann, 3,464,396.
Soehner, Gerhard; and Hoehne, Gerd, 3,473,061.
Stampe, Werner, 3,420,145.
Staudt, Heinrich, 3,477,386.
Steinke, Leo; and Wiest, Wilhelm, 3,457,461.
Steinke, Leo; Sohner, Gerhard; Hurst, Kurt; Gerber, Richard; Frimmel, Karl; and Herrmann, Otto, 3,486,075.
Sturmer, Hans, 3,426,875.
Zechnall, Richard; Issler, Jorg; Sohner, Gerhard; and Worz, Paul, 3,463,134.
Bosch, Robert, Hausgeraete G.m.b.H.: *See*—
Wirth, Hermann, 3,478,962.
Bosch, Werner: *See*—
Krautwald, Herbert; Hubner, Wolfgang; Bosch, Werner; and Aigner, Georg,3,451,022.
Von Tomkewitsch, Romuald; and Bosch, Werner,3,430,020.
Boschi, Antonio F.; and Valentinotti, Aldo, to Pirelli S.p.A. Impact-resisting tank. 3,426,937, 2-11-69, Cl. 220-63.

Boschi, Antonio, to Societa Applicazioni Gomma Antivibranti SAGA S.p.A. Expansion joint for roads and bridges. 3,427,935, 2-18-69, Cl. 94x18.
Bosco, George B., Jr.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,468,548.
Bosco, Joseph. Numbers game ball. 3,464,698, 9-2-69, Cl. 273-58.
Bosco, Jseph. Bingo card with depressible numbered projections. 3,456,948, 7-22-69, Cl. 273-136.
Bose, Carl L.: *See*—
Baker, William G.; Bose, Carl L.; and Gagon, Roland E.,3,439,546.
Bose, Gordon D.; and Bose, Victor E. Apparatus for lifting and aligning building material. 3,438,514, 4-15-69, Cl. 214-1.
Bose, Norman J., to General Precision Systems Inc. Magnetic encoder. 3,426,346, 2-4-69, Cl. 340-347.
Bose, Norman J. Magnetic A/D encoder and method of producing same. 3,453,614, 7-1-69, Cl. 340-347.
Bose, Victor E.: *See*—
Bose, Gordon D.; and Bose, Victor E.,3,438,514.
Boser, Ronald J. Sewing machine. 3,442,236, 5-6-69, Cl. 112-213.
Boshold, Raymond F., to Baldwin-Lima-Hamilton Corporation. Extrusion press container apparatus. 3,466,915, 9-16-69, Cl. 72-272.
Bosico, Tony S. Method and apparatus for filtering fluids. 3,486,623, 12-30-69, Cl. 210-169.
Bosisio, Germano: *See*—
Bernardi, Luigi; Bosisio, Germano; de Castiglione, Roberto; and Goffredo, Onofrio,3,472,832.
Boskovich, Boris: *See*—
Hendrik, Russell C.; Boskovich, Boris; and Lindahl, John H.,3,456,172.
Boskovich, Boris, to Honeywell Inc. Adaptive servo control for an autopilot. 3,458,784, 7-29-69, Cl. 318-18.
Boskovich, Boris; Lindahl, John H.; Mehelich, Edward W.; and Mellen, David L., to Honeywell Inc. Monitoring control for a servomechanism including a deadband. 3,440,504, 4-22-69, Cl. 318-18.
Bosland, Cornelius William: *See*—
Feeser, William Coover; Bosland, Cornelius William; Lockard, Joseph Larue; and Mummey, Dale Brice,3,430,183.
Bosley, David Emerson, to Du Pont de Nemours, E. I., and Company. Bicomponent polyester textile fiber. 3,454,460, 7-8-69, Cl. 161-173.
Bosman, Edward T.: *See*—
Lundin, Robert S.; and Bosman, Edward T.,3,466,457.
Bosman, Edward T., to General Time Corporation. Electronic timer circuits. 3,469,152, 9-23-69, Cl. 317-142.
Bosman, Willem Freddrik: *See*—
De Boer, Douwe Mindert; Bosman, Willem Freddrik; Croymans, Jacques Johannes Hendrik; and Kreutzelman, Harm,3,453,465.
Bosniack, David S.: *See*—
Burkard, Herbert G.; and Bosniack, David S.,3,470,099.
Bosniack, David S.; Stogryn, Eugene L.; and Berger, Joel G., to Esso Research and Engineering Company. Polymer of 1,4-bis-[tris-(NF_2)methoxy] 2-butene oxide. 3,441,520, 4-29-69, Cl. 260-2.
Boss, Charles R. Screen for garment press. 3,430,369, 3-4-69, Cl. 38-66.
Boss Manufacturing Company: *See*—
English, Alfred C., 3,478,942.
Boss, Marc. Freestanding display stand. 3,484,810, 12-16-69, Cl. 108-152.
Bossard, Paul; and Chauvigne, Michel, to Carpano & Pons. Programming apparatus. 3,432,626, 3-11-69, Cl. 200-38.
Bossard, Paul; and Monic, Jean, to Etablissements Carpano and Pons. Synchronous electric motor. 3,428,841, 2-18-69, Cl. 310-164.
Bossard, Werner: *See*—
Bosshard, Hans; and Bossard, Werner,3,422,111.
Bossard, Werner; Favre, Francois; Wegmuller, Hans E.; and Voltz, Jacques, to Geigy, J. R., A.G. Disperse azo dyestuffs. 3,471,468, 10-7-69, Cl. 260-163.
Wegmuller, Hans E.; and Bossard, Werner,3,471,467.
Bosse, Robert W., to Groov-Pin Corporation. Self-tapping insert. 3,430,531, 3-4-69, Cl. 85-47.
Bosse, Robert W., to Groov-Pin Corporation. Equipment for sorting grooved pins. 3,460,664, 8-12-69, Cl. 193-43.
Bosselaar, Hendrik, to Shell Oil Company. Acoustic pipeline leak detector. 3,442,349, 5-6-69, Cl. 181-0.5
Bosselaar, Hendrik; and van Riemsdijk, Arnoldus J., to Shell Oil Company. Acoustic apparatus for examining a pipeline for leaks. 3,462,240, 8-19-69, Cl. 73-40.5
Bossert, Alfred J., Jr., to Midwest Research Institute. Vacuum system pressure change detection. 3,438,259, 4-15-69, Cl. 73-398.
Bossert, Friedrich; and Vater, Wulf, to Farbenfabriken Bayer Aktiengesellschaft. Chromone and thiochromone guanylhydrazones. 3,429,896, 2-25-69, Cl. 260-327.
Bossert, Friedrich; and Vater, Wulf, to Farbenfabriken Bayer Aktiengesellschaft. Coronary dilating compositions and their administration. 3,470,297, 9-30-69, Cl. 424-263.
Bossert, Friedrich; and Vater, Wulf, to Farbenfabriken Bayer Aktiengesellschaft. 4-Aryl-1,4-dihydropyridines. 3,485,847, 12-23-69, Cl. 260-295.5
Bossetti, Adriano. Continuous tunnel kilns having a rotary roller sole for firing ceramic materials. 3,452,408, 7-1-69, Cl. 25-142.
Bosshard, Hans; and Bossard, Werner, to Geigy, J. R., A.G. Naphthoxidine dyestuffs and process for making same. 3,422,111, 1-14-69, Cl. 260-270.
Bosshardt, Rolf: *See*—
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Schenker, Karl; and Urech, Jakob,3,483,197.
Urech, Jakob; Fechtig, Bruno; Bosshardt, Rolf; Bickel, Hans; Schenker, Karl; and Wilhelm, Max,3,484,437.
Bossi, Oscar, to General Electric Information Systems S.p.A. Mounting type carriers on a shaft. 3,485,164, 12-23-69, Cl. 101-110.
Bosso, Joseph F.; and Gerek, Gene, to PPG Industries, Inc. Reusable lined beverage containers. 3,450,303, 6-17-69, Cl. 220-64.
Bost, Howard W. Halogen oxides, halogen oxy acids, and salts thereof as sulfoxidation promoters. 3,485,870, 12-23-69, Cl. 260-513.
Bost, Howard W.; and Cook, Charles F., to Phillips Petroleum Company. Nitrogen oxide compounds as sulfoxidation promoters. 3,479,398, 11-18-69, Cl. 260-513.
Boster, Samuel B. Wheel construction kit for toy vehicles. 3,474,563, 10-28-69, Cl. 46-11.
Boster, Samuel B. Coffee mill. 3,482,790, 12-9-69, Cl. 241-256.
Bostian, Logan C.; Cawthon, Thomas M.; and Oxenrider, Bryce C., to Allied Chemical Corporation. Polycarbonates of 1,4-bis(*p*-hydroxycumyl) benzene. 3,466,260, 9-9-69, Cl. 260-47.
Bostian, Logan C.; Farrar, Grover L.; and Ulmer, Harry E., to Allied Chemical Corporation. Production of hexamethylenediamine. 3,456,014, 7-15-69, Cl. 260-585.
Bostick, Edgar E., to General Electric Company. Polymerization of cyclic organosiloxanes with group 11-A metal complexes. 3,479,320, 11-18-69, Cl. 260-46.5
Bostick, Edgar E., to General Electric Company. Sterospecific organosiloxane-marcromolecular hydrocarbon block copolymers. 3,483,270, 12-9-69, Cl. 260-827.
Bostitch, Incorporated: *See*—
Fisher, Edward I., 3,467,294.
Bostock, James H., to Otis Engineering Corporation. Well installation with plural flow meters. 3,454,085, 7-8-69, Cl. 166-66.
Bostock, James H.; and Pierce, Phillip E., to Otis Engineering Corporation. Well tools. 3,427,989, 2-18-69, Cl. 103-232.
Boston, Charlie L., to Case, J. I., Company. Safety lock for pedal mechanisms. 3,431,793, 3-11-69, Cl. 74-512.
Boston, Charlie L., to Case, J. I., Company. Seat assembly. 3,437,373, 4-8-69, Cl. 296-65.
Boston, George Louis, to Stenocord Corporation, mesne. Linefinder. 3,485,954, 12-23-69, Cl. 179-18.
Boston, James A. Seed and fertilizer indicator. 3,443,724, 5-13-69, Cl. 222-26.
Boston Machine Works Company: *See*—
Heiseler, George W., 3,443,269.
Boston, Robert L.: *See*—
Goodman, Robert C.; and Boston, Robert L.,3,449,547.
Boston, William G.; Brandner, Carl F.; and Foster, William R., to Mobil Oil Corporation. Recovery of oil by waterflooding from an argillaceous, oil-containing subterranean formation. 3,470,956, 10-7-69, Cl. 166-273.
Bostonian, Edward T. Fluorescent lighting fixture with wireways on the reflector. 3,436,537, 4-1-69, Cl. 240-9.
Bostroem, Hans; and Howey, Friedrich, to Aktiebolaget Bofors. Echo sounding method and apparatus. 3,439,318, 4-15-69, Cl. 340-3.
Bostroem, Theodore: *See*—
Vassilevsky, Anatole N.; and Bostroem, Theodore,3,483,006.
Bostrom, Harry H.; and Katzmarek, Albert G., to Seeburg Corporation, The. Automatic phonograph record clamping and speed controlling mechanism. 3,436,082, 4-1-69, Cl. 274-10.
Bostrom Manufacturing Company Limited: *See*—
Cockerill, Richard, 3,423,775.
Marsh, John A., 3,485,698.
Bostwick, Louis E.; and Mandelik, Bernard G., to Pullman Incorporated. Sulfuric acid process. 3,432,264, 3-11-69, Cl. 23-168.
Bostwick, Robert, to Union Carbide Corporation. Flat bag and overflapped adhesive tape closure therefor. 3,420,433, 1-7-69, Cl. 229-80.
Boswell, Donald E.: *See*—
Landis, Philip S.; and Boswell, Donald E.,3,420,854.
Boswell, George A., to Du Pont de Nemours, E. I., and Company. 1-Adamantyl and 1-adamantylmethyl carbonates of testoterone and selected derivatives. 3,433,813, 3-18-69, Cl. 260-397.4
Boswell, George A., to Du Pont de Nemours, E. I., and Company. Selected 17,17-difluoro unsaturated androstanes. 3,470,216, 9-30-69, Cl. 260-397.3
Boswell, George T.: *See*—
McKay, Lawrence B., 3,421,460.
Boswell, George T., to Susquehanna Corporation, The. Omnidirectional impact switch. 3,457,382, 7-22-69, Cl. 200-61.45

Boswell, James E., to Independent Stave Company, Inc. Wooden bowl assembly and method of making. 3,448,883, 6-10-69, Cl. 217-5.
Boswell, James M., Jr.; Fitzmayer, Louis H.; and Prucha, Richard V., to General Electric Company. Electronic oven. 3,439,144, 4-15-69, Cl. 219-10.55
Boswell, Stanley Harold: *See—*
Blight, Dennis Jack; Boswell, Stanley Harold; and Damoisiaux, Anthony John,3,462,727.
Bosworth, Delbert B.; Christy, Arthur S., Jr.; and La Rochelle, Fernand L., to United Industrial Syndicate, Inc. Apparatus for transferring heavy objects between vertically spaced levels. 3,434,609, 3-25-69, Cl. 214-95.
Bosworth, Robert H.: *See—*
Cohen, Edward A.; Bosworth, Robert H.; and Feucht, Robert E.,3,471,349.
Bosworth, Robert T., to Du Pont de Nemours, E. I., and Company. Methyl methacrylate polymer and process for making same. 3,474,081, 10-21-69, Cl. 260-89.5
Bosworth, Seymour; and Zauderer, Jerome, to Abbey Electronics Corp. Digital indicating device for DC voltage source. 3,421,083, 1-7-69, Cl. 324-99.
Bot Brassert Oxygen Technik AG.: *See—*
Michaelis, Eduard, 3,473,917.
Botalam: *See—*
Glasson, Jean Emile, 3,427,958.
Botcherby, Stephen Charles Lauder: *See—*
Neish, David Anthony; and Botcherby, Stephen Charles Lauder,3,442,590.
Neish, David Anthony; and Botcherby, Stephen Charles Lauder,3,482,436.
Botden, Theodoor Peter Johannes: *See—*
Daniels, Henricus Petrus Cornelis; and Botden, Theodoor Peter Johannes,3,430,331.
Botefuhr, Harold Raymond: *See—*
Foody, Raymond O.; and Botefuhr, Harold Raymond,3,465,479.
Botefuhr, Harold R., to Murphy, G. W., Industries, Inc. Radial arm saw. 3,482,610, 12-9-69, Cl. 143-6.
Boteler, Henry W., to Grinnell Corporation. Diaphragm valve body. 3,471,124, 10-7-69, Cl. 251-366.
Boter, Pieter Abraham: *See—*
Wijnen, Marinus Dirk; and Boter, Pieter Abraham,3,444,002.
Botha, Charles Francois. Pelleting machine. 3,424,079, 1-28-69, Cl. 100-186.
Botha, Louis B.: *See—*
Thomas, William J.; and Botha, Louis B.,3,434,548.
Botham, John C.: *See—*
Walsh, John H.; Hudson, Hugh P.; Botham, John C.; and Landon, Joseph E.,3,462,263.
Bothwell, Peter W.; and Tojeiro, John M. Safety helmets. 3,447,163, 6-3-69, Cl. 2-3.
Botjer, John L.: *See—*
Donner, Edward O.; Keeler, Howard S.; Botjer, John L.; and Frye, Harold E.,3,453,384.
Botkin, Lawrence A., to Fruehauf Corporation. Vent check valve. 3,430,648, 3-4-69, Cl. 137-493.
Botsco, Ronald J., to North American Rockwell Corporation. Eddy sonic inspection method. 3,453,872, 7-8-69, Cl. 73-69.
Botsford, Charles W.: *See—*
Culp, Gordon L.; Schilling, Robert D.; Hansen, Sigurd P.; and Botsford, Charles W.,3,425,936.
Hansen, Sigurd P.; Botsford, Charles W.; Rice, Archie H.; and Conley, Walter R., Jr.,3,482,695.
Botstiber, Dietrich W. Chip detector for magnetic and non-magnetic conductive particles. 3,432,750, 3-11-69, Cl. 324-41.
Bott, George Spencer: *See—*
Duryea, William James; and Bott, George Spencer,3,468,520.
Vincent, James G., Jr.; Hansen, Lloyd Frank; Yen, Ernest Chu; Taylor, Arthur Sinclair; Bott, George Spencer; and Greif, Martin,3,436,453.
Bott, George S., to American Cyanamid Company. Compact ampule sealer. 3,437,471, 4-8-69, Cl. 65-270.
Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William,3,453,804.
Bott, John A. Frame for license plate of the like. 3,423,866, 1-28-69, Cl. 40-209.
Bott, John A. Luggage rack. 3,451,602, 6-24-69, Cl. 224-42.1
Bott, Lawrence L., to Nalco Chemical Company. Electrochemical cell having ceramic- lined tubular cathodes. 3,479,274, 11-18-69, Cl. 204-260.
Bott, Reinhold: *See—*
Starp, Franz W. R.; and Bott, Reinhold,3,459,112.
Bottani, Angelo, to Societa Internazionale Fonovisione S.p.A. Portable apparatus for continuous cinematographic projection of a film contained in an interchangeable charger. 3,447,865, 6-3-69, Cl. 352-27.
Bottas, Michael J., to Whirlpool Corporation. Reactor for generating a carbon dioxide rich atmosphere. 3,421,860, 1-14-69, Cl. 23-281.
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves, to Commissariat a l'Energie Atomique. Methods of making combustion catalysts. 3,444,098, 5-13-69, Cl. 252-455.
Bottazzi, Giovanni. Adjustable feed device for embossing tools. 3,481,211, 12-2-69, Cl. 74-142.
Bottcher, Peter: *See—*
Graff, Peter; and Bottcher, Peter,3,434,525.
Bottenbruch, Ludwig; Lotter, Hans-Georg; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Method of separating polycarbonates from solution. 3,437,638, 4-8-69, Cl. 260-47.
Bottenbruch, Ludwig; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Polycarbonate plastics. 3,468,846, 9-23-69, Cl. 260-47.
Bottenbruch, Ludwig; Wulff, Claus; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of polycarbonates containing repeating bis (hydroxyaryl carbonamide) alkylene units. 3,445,428, 5-20-69, Cl. 260-47.
Bottenbruch, Ludwig: *See—*
Schneider, Rudolf; Bottenbruch, Ludwig; Court, Otto; Damsky, Walter; Spott, Georg; and Lippert, Axel,3,427,003.
Schnell, Hermann; Bottenbruch, Ludwig; and Michael, Dietrich,3,450,793.
Wulff, Claus; Schnell, Hermann; and Bottenbruch, Ludwig,3,422,065.
Botterill, John Redvers, to Teves, Alfred, Maschinen- und Armaturenfabrik K.G. Actuating fluid cooling means for a disk brake. 3,420,342, 1-7-69, Cl. 188-264.
Botterill, John Redvers, to Teves, Alfred, G.m.b.H. Anti-noise disk brake. 3,460,652, 8-12-69, Cl. 188-73.
Botterill, John R.; Klein, Hans-Christof; and Oberthur, Heinrich, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Brake system. 3,449,017, 6-10-69, Cl. 303-2.
Bottger, Friedrich; and Cuppers, Paul, to Maschinenfabrik Froriep G.m.b.H. Tool slides for lathes. 3,448,656, 6-10-69, Cl. 90-17.
Botting, John Robert: *See—*
Martin, George Roy; and Botting, John Robert,3,485,038.
Bottinga, Harmen: *See—*
Spruyt, Adriaan; Matteman, Joseph L.; and Bottinga, Harmen,3,485,362.
Bottling, Manfred, to Kienzle Apparate G.m.b.H. Discharge nozzle controlled fluid dispensing arrangement. 3,447,719, 6-3-69, Cl. 222-33.
Bottling, Manfred, to Kienzle Apparate G.m.b.H. Receipt printer for vending machines. 3,469,668, 9-30-69, Cl. 194-3.
Botto, Giuseppe. Apparatus for drilling wells. 3,420,321, 1-7-69, Cl. 175-173.
Bottomley, Charles G., to Du Pont de Nemours, E. I., and Company. $\alpha,\alpha,\alpha\alpha'$-Tetramethyl-p-xylylenediamines. 3,422,143, 1-14-69, Cl. 260-570.8
Bottomley, James; and Strauss, Richard, to National Polychemicals, Inc. Phenolic sulfide phosphite compounds. 3,435,097, 3-25-69, Cl. 260-887.
Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Gear pumps. 3,431,862, 3-11-69, Cl. 103-126.
Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Variable flow metering device. 3,447,778, 6-3-69, Cl. 251-282.
Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Port plates for hydraulic reciprocating pumps and motors. 3,460,483, 8-12-69, Cl. 103-162.
Bottoms, Harry Simister; and Lewis, Geoffrey Arthur, to Lucas, Joseph, (Industries) Limited. Fluid pumps. 3,447,470, 6-3-69, Cl. 103-97.
Botton, Roger; and Steinmetz, Andre, to Produits Chimiques Pechiney-Saint-Gobain. Iron-based catalyst, their preparation and their uses. 3,446,589, 5-27-69, Cl. 23-193.
Botton, Roger; and Steinmetz, Andre, to Produits Chimiques Pechiney-Saint-Gobain. Preparation of ammonia and hydrochloric acid from ammonium chloride. 3,471,256, 10-7-69, Cl. 23-154.
Bottone, Arthur A.; and Fallon, Bernard R., to Westinghouse Electric Corporation. Single-ended electric incandescent lamp with improved base and terminal structure, and method of assembly. 3,469,140, 9-23-69, Cl. 313-318.
Bottorf, Donald Thomas; and Moore, Edward Joseph, to Du Pont de Nemours, E. I., and Company. Process and apparatus for extruding polyolefins. 3,476,846, 11-4-69, Cl. 264-95.
Bottos, Bela. Hand telephone. 3,474,196, 10-21-69, Cl. 179-103.
Bottrill, Neil J.: *See—*
Lepp, Jacob H.; and Bottrill, Neil J.,3,448,930.
Botts, Kenneth C.: *See—*
Chamberlain, Julius J., Jr.; and Botts, Kenneth C.,3,469,387.
Botts, Marion F.; and Regel, Erik K., to Chemagro Corporation. Process for producing alkylthioalkyl phosphonodithioic esters. 3,463,840, 8-26-69, Cl. 260-972.
Botts, Marion F.; and Regel, Erik K., to Chemagro Corporation. Nematocidal method using alkylthioalkylphos- phonodithioates. 3,485,918, 12-23-69, Cl. 424-216.
Botts, Marion F.: *See—*
Regel, Erik K.; and Botts, Marion F.,3,467,736.
Regel, Erik K.; and Botts, Marion F.,3,481,731.

Botts, Nelson F.: *See*—
Sutton, Walter T., Jr.; Broyles, James D.; Sims, James B.; and Botts, Nelson F.,3,475,830.
Bottum, Edward W. Suction accumulator. 3,420,071, 1-7-69, Cl. 62-503.
Bottum, Edward W. Suction accumulator. 3,443,367, 5-13-69, Cl. 55-316.
Bottum, Edward W. Heat exchanger. 3,446,032, 5-27-69, Cl. 62-513.
Bottum, Edward W. Heat exchanger. 3,473,348, 10-21-69, Cl. 62-513.
Bottum, Edward W.; and Rockwell, Frank H., to Refrigeration Research, Incorporated. Method of applying a non-ferrous corrosion resistant coating to refrigeration components. 3,432,910, 3-18-69, Cl. 29-458.
Botwin, Leo: *See*—
Amoruso, Donald J.; and Botwin, Leo,3,427,616.
Boubee, Pierre. Device for cyclically activating a heating appliance controlled by a thermostat. 3,439,990, 4-22-69, Cl. 431-69.
Boucek, Miroslav; Pospisil, Frantisek; Elias, Jiri; Tyl, Miloslav; and Mikulecky, Karel, to Vyzkumny Ustav Bavlnarsky. Stop motion for open end spinning machines. 3,462,936, 8-26-69, Cl. 57-80.
Bouchal, Alexander Wayne: *See*—
Goldman, Michael Ira; and Bouchal, Alexander Wayne,3,422,184.
Gyarmathy, Kenneth W.; and Bouchal, Alexander W.,3,431,339.
Bouchal, Frantisek: *See*—
Bures, Miroslav; and Bouchal, Frantisek,3,451,753.
Bouchard, Arthur J.: *See*—
Baumgartner, John R.; and Bouchard, Arthur J.,3,478,556.
Bouchard, Joseph G. F., to Sprague Electric Company. Transistors and method of manufacturing the same. 3,426,254, 2-4-69, Cl. 317-235.
Bouchard, Richard J., to Sanders Associates, Inc. Intensity control for vector generators having uniform vector trace time. 3,482,309, 12-9-69, Cl. 315-22.
Bouchard, Richard; Billings, Philip; and Horn, Richard A., to Sanders Associates, Inc. Character generator. 3,423,626, 1-21-69, Cl. 315-18.
Bouchard, Robert Thomas; Dickstein, Jack; and Dean, Donald Eugene, to Borden Company, The. Terpolymer latex and process. 3,442,844, 5-6-69, Cl. 260-29.6
Bouche, Raymond R. Vibration damper. 3,446,907, 5-27-69, Cl. 174-42.
Boucher, Elsie J. Method of manufacturing jewelry parts. 3,479,199, 11-18-69, Cl. 117-19.
Boucher, Eugene, to Vessot, S., Company Limited. Apparatus for moulding concrete pipes. 3,461,516, 8-19-69, Cl. 25-30.
Boucher, Heinz: *See*—
Ruff, Wolfram; and Boucher, Heinz,3,421,986.
Ruff, Wolfram; and Boucher, Heinz,3,442,776.
Boucher, Raymond Marcel Gut; and Tobin, Carlton D., to Macrosonics Corporation. High frequency ultrasonic fog generator and method. 3,469,785, 9-30-69, Cl. 239-4.
Boucherie, Gerard Benoni. Method and installation for the automatic feeding of fibres into machines for processing fibre material. 3,450,312, 6-17-69, Cl. 222-363.
Boucherie, Gerard Benoni. Device for stepwise displacement of workpieces, tools and suchlike. 3,468,176, 9-23-69, Cl. 74-142.
Bouchet, Bernard; and Charles, Robert, to European Atomic Energy Community (Euratom). Magazine for the temporary storage of nuclear fuel rods. 3,463,923, 8-26-69, Cl. 250-106.
Bouchet, Jean, to Societe Metallurgique d'Imphy. Rotary furnace enabling melt to be obtained continuously from liquid steel or iron. 3,436,066, 4-1-69, Cl. 266-18.
Bouchillon, Charles W., to Herschede Hall Clock Company, The. Well pack-off unit. 3,422,902, 1-21-69, Cl. 166-202.
Boucraut, Michael; Toth, Imre; and Blum, Jacques, to Institut de Recherches de la Siderurgie Francaise. Pneumatic conveyor. 3,463,553, 8-26-69, Cl. 302-17.
Boucraut, Michel; and Toth, Imre, to Institut de Recherches de la Siderurgie Francais. Treatment of pulverulent materials. 3,433,624, 3-18-69, Cl. 75-1.
Boucraut, Michel; and Toth, Imre, to Institut de Recherches de la Siderurgie Francaise. Process and apparatus for pneumatically classifying pulverulent material. 3,446,355, 5-27-69, Cl. 209-474.
Boudes, Jacques. Helicopter having in horizontal flight the characteristics of an airplane. 3,420,472, 1-7-69, Cl. 244-7.
Boudigues, Serge, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Multiflow turbojet engine. 3,486,328, 12-30-69, Cl. 60-39.18
Boudin, Georges M.; and Rabus, Annie, to Eastman Kodak Company. X-ray film pack with a flexible envelope and means to evacuate said envelope. 3,444,370, 5-13-69, Cl. 250-68.
Boudin, Henry F. Vehicle emergency signal light. 3,439,326, 4-15-69, Cl. 340-87.
Boudouris, Angelo, to Eprad Incorporated. Universal junction box for drive-in theater heaters. 3,467,762, 9-16-69, Cl. 174-59.
Boudreau, Alban M. Crotch strap securement. 3,484,135, 12-16-69, Cl. 297-390.
Boudreau, Francis. Trap-chain lock ring. 3,461,600, 8-19-69, Cl. 43-96.
Boudreau, Frank; Huston, Paul O.; and Rasmusson, Donald R., to Kidde, Walter, & Company, Inc., mesne. Yarn supply creel frame. 3,428,188, 2-18-69, Cl. 211-175.
Boudreau, John L.: *See*—
Bristol, Robert E.; and Boudreau, John L.,3,462,581.
Boudreau, John L., to Casco Products Corporation. Thermally responive circuit breaker for electric cigar lighter. 3,462,721, 8-19-69, Cl. 337-75.
Boudreau, Robert J., to General Electric Company. Siloxane-oxyalkylene copolymers and use thereof. 3,483,240, 12-9-69, Cl. 260-448.2
Boudreau, Robert Joseph. Portable saw guide. 3,485,275, 12-23-69, Cl. 143-6.
Boudreaux, Gordon J.: *See*—
Berardi, Leah C.; Martinez, Wilda H.; Boudreaux, Gordon J.; Piccolo, Biagio; and Frampton, Vernon L.,3,463,641.
Boudreaux, Joseph R.: *See*—
Callihan, Clayton D.; Boudreaux, Joseph R.; and Smith, Cecil L.,3,448,100.
Boudreaux, Joseph R., to Dow Chemical Company, The. Hydraulic fracturing. 3,475,334, 10-28-69, Cl. 252-8.55
Boudreaux, Lee J.; Flur, Barry L.; and Scow, Kenneth B., to International Business Machines Corporation. Process for making a magnetic film. 3,470,020, 9-30-69, Cl. 117-236.
Boudreauz, Joseph R.; and Roberts, Reginald F., Jr., to Dow Chemical Company, The. Mixed cellulose ethers. 3,446,795, 5-27-69, Cl. 260-231.
Boueil, Raymond; and Gardeux, Gerard, to Regie Nationale des Usines Renault. Power-assisted hydrostatic braking systems for tractor vehicles and their trailers. 3,431,029, 3-4-69, Cl. 303-7.
Boueil, Raymond; and Gardeux, Gerard, to Regie Nationale des Usines Renault. Hydrodynamic braking devices with hydrostatic safety feature for tractor vehicles with or without trailers. 3,431,030, 3-4-69, Cl. 303-7.
Boueil, Raymond; and Gardeux, Gerard, to Regie Nationale des Usines Renault. Devices for simultaneously applying the brakes of a tractor and of its trailer. 3,441,108, 4-29-69, Cl. 188-3.
Boueil, Raymond; and Gardeux, Gerard, to Regie Nationale des Usines Renault. Hydrostatic braking apparatus with servocontrol for tractor vehicle and its trailer. 3,441,319, 4-29-69, Cl. 303-7.
Bouet, Jacques E., to International Harvester Company. Tilt-control of a tractor-mounted mower. 3,469,382, 9-30-69, Cl. 56-282.
Bouet, Jacques Eugeni, to International Harvester Company. Safety system for mowers. 3,473,309, 10-21-69, Cl. 56-282.
Bouet, Jacques, to International Harvester Company. Cutter bar. 3,431,714, 3-11-69, Cl. 56-296.
Bough, Maynard O., Jr.: *See*—
Zappia, Anthony T.; and Bough, Maynard O., Jr.,3,434,820.
Boughner, Lawrence G., to Rockwell-Standard Company, mesne. Steering knuckle sealing means. 3,441,288, 4-29-69, Cl. 280-96.1
Boughton, Donald C., to Du Pont de Nemours, E. I., and Company. Methods of controlling protozoa infections with N-substituted, 1,4-diamino-2,3-anthraquinonedicarboximides. 3,436,460, 4-1-69, Cl. 424-274.
Bougon, Michel, to Commissariat a l'Energie Atomique. Apparatus for observing and photographing objects in closed spaces. 3,447,434, 6-3-69, Cl. 95-11.
Bougon, Michel; Hugues, Edgard; and Poivilliers, Jean, to Commissariat a l'Energie Atomique. Observation or photography devices in closed spaces and in particular in bubble chambers. 3,485,547, 12-23-69, Cl. 350-17.
Bouillard, Paul: *See*—
Sautier, Pierre; and Bouillard, Paul,3,438,304.
Bouillon, Bernard: *See*—
D'Albis, Antoine; Yerouchalmi, David; and Bouillon, Bernard,3,423,611.
Bouis, Hugues: *See*—
Chatelain, Roger; and Bouis, Hugues,3,474,944.
Boukair, Moe N. Liquid-containing filter. 3,420,242, 1-7-69, Cl. 131-261.
Bouladon, Gabriel; and Zuppiger, Paul, to Battelle Development Corporation, The. Closed loop passenger transport complex. 3,431,866, 3-11-69, Cl. 104-25.
Boulanger, Claude; and Pellissier-Tanon, Jerome, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Apparatus and method for the operation of cells for the igneous electrolysis of alumina. 3,455,795, 7-15-69, Cl. 204-67.
Boulanger, Evariste. Belt for snowmobiles. 3,436,128, 4-1-69, Cl. 305-38.
Bould, Fred, to Westinghouse Electric Corporation. Metal-enclosed switchgear with improved interlock means. 3,474,201, 10-21-69, Cl. 200-50.
Bould, Fred; and Patel, Nagar J., to Westinghouse Electric Corporation. Track structure for drawout switchgear apparatus. 3,483,338, 12-9-69, Cl. 200-50.
Boulet, Francis; and Polledri, Jean, to Compagnie Generale d'Electricite. Tunnel diode manufacturing apparatus. 3,461,546, 8-19-69, Cl. 29-569.

Bouley, Jean. Bulldozer. 3,424,251, 1-28-69, Cl. 172-801.
Bouligny, R. H., Inc.: *See—*
Wolf, Herman B., 3,457,459.
Boulter, Brian Alfred; and Dwyer, Barry, to Elliott Brothers (London) Limited. Read-only digital data storage arrangement. 3,469,247, 9-23-69, Cl. 340-174.
Boultinghouse, Harold D., to Phillips Petroleum Company. Tufted articles and method for making same. 3,431,875, 3-11-69, Cl. 112-410.
Boultinghouse, Harold D., to Phillips Petroleum Company. Fibrillation. 3,473,206, 10-21-69, Cl. 28-72.
Boulton, Richard C.: *See—*
Harrison, William B.; and Boulton, Richard C.,3,454,282.
Bouma, Harold, to Bouma Post Yards. Post pointing and capping apparatus. 3,451,449, 6-24-69, Cl. 144-30.
Bouma Post Yards: *See—*
Bouma, Harold, 3,451,449.
Bouman, Antonius Fredericus Mattias, to N.V. Hollandse Signaalapparaten. Pulse radar apparatuses. 3,460,141, 8-5-69, Cl. 343-17.2
Bouncher, Leo E.: *See—*
Vroman, Albert L.; and Bouncher, Leo E.,3,429,473.
Bounden, John Ellery; and Large, Leslie Noel, to United Kingdom Atomic Energy Authority. Neutron generators. 3,448,314, 6-3-69, Cl. 313-61.
Bounds, William E.; and Morris, Elmer S. Device for frosting cocktail glasses. 3,431,749, 3-11-69, Cl. 62-293.
Bouniot, Albert, to Melle-Bezons (Societe Anonyme). Method of separating methanol from low boiling aliphatic esters and water by azeotropic distillation with a hydrocarbon. 3,431,181, 3-4-69, Cl. 203-8.
Bounous, Daniel B., to Southern Textile Machinery Company, Incorporated, mesne. Apparatus for inspecting and sewing stockings. 3,446,166, 5-27-69, Cl. 112-2.
Bounsall, Norman F., to Ampex Corporation. Erasing method for video tape recordings. 3,436,489, 4-1-69, Cl. 179-100.2
Bourbon, Jean, to Etablissements A. Bourbon & Fils. Operating device for writing appliances with retractable writing elements. 3,427,113, 2-11-69, Cl. 401-112.
Bourdais, Jacques, to Centre National de la Recherche Scientifique. 2,3,4,5-Tetrahydro-1,5, benzothiazepine-4-one-3- yl-acetic acid and its methyl ester. 3,445,460, 5-20-69, Cl. 260-239.3
Bourdeau, Raymond D.: *See—*
Lohnas, John D.; Bourdeau, Raymond D.; and Kalia, Kanwal K.,3,442,685.
Bourdin, Jean Sylvain; and Mayet, Pierre Ernest, to Societe Anonyme: Entreprise Bourdin & Chausse. Method and apparatus for determing the compactness of the surface over which a vehicle travels. 3,444,727, 5-20-69, Cl. 73-78.
Bourdon, Joseph J.: *See—*
Peters, Richard T.; Stone, Eliot; and Bourdon, Joseph J.,3,466,156.
Bourgault, Albert J.; and Harward, Robert A., to Collins & Aikman Corporation. Machine shut-down device. 3,487,181, 12-30-69, Cl. 200-61.13
Bourgault, Jean Paul: *See—*
O'Connor, Thomas L.; and Bourgault, Jean Paul,3,449,271.
Bourgeaux, Maurice: *See—*
DeLajarte, Stephane Dufaure; and Bourgeaux, Maurice,3,468,649.
Bourgeaux, Maurice; and Peyches, Pierre Ivan, to Compagnie de Saint-Gobain. Process and apparatus for supporting a sheet of glass on a gas and liquid support bed. 3,437,469, 4-8-69, Cl. 65-25.
Bourgeois, Francis H.: *See—*
Westby, Lloyd R.; and Bourgeois, Francis H.,3,476,204.
Bourgeois, Joseph F. J.: *See—*
Allgeyer, David F.; and Bourgeois, Joseph F. J.;3,440,767.
Bourgeois, Louis F. Bag dispenser from continuous tube supply. 3,481,112, 12-2-69, Cl. 53-390.
Bourgeois, Norbert Paul, to Etablissements Georges Lebocey & Cie. Arrangement for the detection of breakage and abnormal yarn tension. 3,482,420, 12-9-69, Cl. 66-158.
Bourgeois, Ronald. Workpiece positioning device. 3,483,631, 12-16-69, Cl. 33-180.
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel, to Houilleres du Bassin du Nord & du Pas-de-Calais, Comissariat a l'Energie Atomique, L'Air Liquide, Societe pour l'etude et l'Exploitation des Procedes Georges Claude, and Compagnie de Construction Mecanique Procedes Sulzer. Process for carrying out isotopic exchange between ammonia and deuterated ammonia, hydrogen and deuterium. 3,471,257, 10-7-69, Cl. 23-193.
Bourget, Maurice Louis; Gesnel, Andre Paul; and Orard, Joseph Antoine Louis. Transplanting plants. 3,469,341, 9-30-69, Cl. 47-37.
Bourggraff, Robert; and Hainke, Georg, to Compagnie de Saint-Gobain. Apparatus for manufacture of flat wire glass. 3,457,058, 7-22-69, Cl. 65-148.
Bourghardt, Sven Erik, to Saab Aktiebolag. Devices for assembling in an instruction memory an instruction word to be supplied to an apparatus controlled by logic-circuits. 3,478,326, 11-11-69, Cl. 340-172.5
Bourguignon, Pierre; and Lemaistre, Rene, to Les Usines de Melle (Societe Anonyme). Novel furfuryl alcohol processes and products. 3,451,984, 6-24-69, Cl. 260-88.5
Bourn, Jesse T., deceased (by Bourn, Helen Louise, executrix); Ridenhour, Banks L.; and Lum, Robert C. Guard rail stanchion. 3,480,257, 11-25-69, Cl. 256-59.
Bourne, Douglas J.: *See—*
Atwood, George E.; Bourne, Douglas J.; and Lamb, Frank E.,3,436,175.
Bourne, John Edward; and Simpson, John Albert, to Sperry Rand Limited, mesne. Redundant servo control system with crossfeeding of feedback for use in an autopilot. 3,454,852, 7-8-69, Cl. 318-18.
Bourne, Ronald Frederick; and Cheyne, Donald Gordon. Mounting of beater and like blades on rotors. 3,432,110, 3-11-69, Cl. 241-191.
Bourne, Walter. Cable and like binding clips. 3,486,201, 12-30-69, Cl. 24-16.
Bourns, Inc.: *See—*
Ames, John E., Jr., 3,421,126.
Ames, John E., Jr., 3,463,999.
Baskett, John R., 3,448,427.
Halfhill, Donald W.; and Comley, William, Jr., 3,441,728.
Hatch, Howard H., 3,470,519.
Lugten, Leo K., 3,478,291.
Lugten, Leo K., 3,483,499.
Miller, Kenneth F.; and Smith, Melvin H., 3,458,915.
Strickland, Marion L., 3,474,269.
Zuehlke, Arthur A., 3,482,066.
Bourquin, Jean Pierre: *See—*
Renz, Jany; Bourquin, Jean Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,464,977.
Bourquin, Jean-Pierre: *See—*
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,474,099.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav,3,478,022.
Bourquin, Paul A., to Wolff & Munier, Inc. Top discharge air duct system and air ducts therefor. 3,478,667, 11-18-69, Cl. 98-40.
Boushka, William M., to General Mills, Inc. Apparatus for preparing food products. 3,459,408, 8-5-69, Cl. 259-8.
Boussois-Soushon-Neuvesel: *See—*
Olink, Jan-Theodor, 3,463,625.
Bouthors, Pierre; and Colinet, Andre, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Air distributor boxes for air-conditioning systems of vehicles. 3,448,674, 6-10-69, Cl. 98-2.
Bouthors, Pierre; and Colinet, Andre, to Regie Nationale Des Usines Renault. Tubular finned radiator. 3,470,949, 10-7-69, Cl. 165-151.
Bouthors, Pierre; Lecomte, Alexandre; and Soetaert, Guy, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Window regulator handles. 3,483,769, 12-16-69, Cl. 74-547.
Bouthors, Pierre; and Porquet, Christian, to Regie Nationale des Usines Renault. Automotive electric door lock systems. 3,486,352, 12-30-69, Cl. 70-264.
Bouthors, Pierre: *See—*
Prost-Dame, Claude; Ventre, Pierre; and Bouthors, Pierre,3,449,864.
Boutilier, James A., to Foxboro Company, The. Electrical connector for test gear. 3,466,595, 9-9-69, Cl. 339-253.
Boutin, Lucien J.: *See—*
Borden, Jay R.; Boutin, Lucien J.; Geis, Everett R.; and Krauthamer, Stanley,3,452,266.
Boutle, David Leonard: *See—*
Chadwick, Francis Neville; Broad, David; and Boutle, David Leonard,3,475,762.
Bouton, Gertrude V.,: *See—*
Vischer, Alfred, Jr., 3,431,902.
Boutron, Roger, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Process and device for measuring the compactness of compressible bodies and especially of cigarettes. 3,438,250, 4-15-69, Cl. 73-94.
Boutry, Georges Albert: *See—*
Guillaume, Andre Eugene,3,450,921.
Bouvier, Francis L.; Carlson, Roy C., Jr.; Higgins, Charles W.; Smith Norman F.; and Kelley, John J., to Western Electric Company, Incorporated. Apparatus for abrading-to-value electrical components. 3,438,155, 4-15-69, Cl. 51-165.
Bouvier, John J., to Ferro Corporation. Polishing plate. 3,464,166, 9-2-69, Cl. 51-209.
Bouwer, Leonardus: *See—*
Verkaik, Arie; and Bouwer, Leonardus,3,483,723.
Bouwkamp, Gerald R., to Standard Screw Company. Spiral metering valve. 3,439,659, 4-22-69, Cl. 123-90.
Bouwkamp, Gerald R.; and Lesher, Kenneth W., to Standard Screw Company. Flow metering device. 3,437,082, 4-8-69, Cl. 123-119.
Bouwma, Ronald D., to Keeler Brass Company. Furniture hardward. 3,480,990, 12-2-69, Cl. 16-123.
Bouyoucos, John V., to General Dynamics Corporation. Acoustic vibration generators. 3,472,199, 10-14-69, Cl. 116-137.

Bouyoucos, John V. Acoustic apparatus. 3,485,205, 12-23-69, Cl. 116-137.
Bouzereau, Daniel Emile Henri, to Centre de Recherches de Pont-a-Mousson. Machine for stoppering bottles. 3,432,989, 3-18-69, Cl. 53-264.
Bouzereau, Daniel Emile Henri, to Centre de Recherches de Pont-a-Mousson. Selector for capsules and other hollow objects having an end wall. 3,463,294, 8-26-69, Cl. 198-33.
Bova, Joseph Don; and Engel, Harry Charles, to American Cyanamid Company. Expandable honeycomb structure. 3,458,385, 7-29-69, Cl. 161-68.
Bovagne, Rene. Rotatable apparatus, more particularly a rotatable kiln, for the treatment of materials. 3,468,522, 9-23-69, Cl. 263-33.
Bovard, Robert M., 'Automatic' Sprinkler Corporation of America. Solid state oxygen supply system. 3,482,568, 12-9-69, Cl. 128-142.3
Bovee, Loren L.: *See—*
Ainsworth, David J.; and Bovee, Loren L.,3,446,477.
Bovenkerk, Harold P., to General Electric Company. Process for growing diamond on a diamond seed crystal. 3,423,177, 1-21-69, Cl. 23-209.1
Bovensiepen, Hans-Friedrich. Shaft and bearing arrangement for a carding machine. 3,464,092, 9-2-69, Cl. 19-98.
Bovone, Luigi. Machine for having glass plates electrochemically copper plated by means of soluble electrodes, in the making of mirrors. 3,468,782, 9-23-69, Cl. 204-198.
Bowcott, Roy Price, to Lucas, Joseph, (Industries) Limited. Commutator segments for dynamo-electric machines and coil end connectors. 3,459,983, 8-5-69, Cl. 310-234.
Bowcott, Roy Price, to Lucas, Joseph, (Industries) Limited. Combined seal and washer for a roller clutch. 3,460,655, 8-12-69, Cl. 192-45.
Bowden, George F. Concrete wall form with load gathering and distributing members therefor. 3,452,960, 7-1-69, Cl. 249-40.
Bowden, George F.; and Dagiel, Richard T., to Symons Mfg. Company. Stringer-releasing shore assembly for a concrete slab form installation. 3,430,910, 3-4-69, Cl. 248-354.
Bowden, George F.; and Dagiel, Richard T., to Symons Mfg., Company. Concrete wall form installation and tie rod load indicator therefor. 3,467,054, 9-16-69, Cl. 116-114.
Bowden, George F.; and Gilbert, John R., to Symons Mfg. Company. Tie rod assembly adapted for use in a concrete wall form and including novel elastomeric spacer members. 3,420,491, 1-7-69, Cl. 249-216.
Bowden, George F.; and Gilbert, John R., to Symons Mfg., Company. Concrete wall form panel with partial studding. 3,446,470, 5-27-69, Cl. 249-192.
Bowden, George F.; and Gilbert, John R., to Symons Mfg. Company. Hole-pattern member for use in connection with a concrete floor slab form. 3,469,817, 9-30-69, Cl. 249-183.
Bowden, Howard J.: *See—*
Adler, Irwin L.; and Bowden, Howard J.,3,485,637.
Bowden, James J. Method of preheating and charging scrap to a BOF. 3,479,178, 11-18-69, Cl. 75-60.
Bowden, John H.; and Terry, Clifford T., to Wyandotte Chemicals Corporation. Process for the preparation of granular calcium chloride. 3,433,863, 3-18-69, Cl. 264-140.
Bowden, Kenneth: *See—*
Broadbent, John L.; Bowden, Kenneth; and Ross, William James,3,467,715.
Bowditch, Hoel L., to Foxboro Company, The. Linkage arrangement for instrumentation apparatus. 3,430,511, 3-4-69, Cl. 74-469.
Bowditch, Hoel L., to Foxboro Company, The. Apparatus for use in the measurement of fluid flow. 3,431,935, 3-11-69, Cl. 137-269.
Bowditch, Hoel L.; and Johnsen, Christian Frederick, to Foxboro Company, The. Single unit recorder inking system. 3,482,257, 12-2-69, Cl. 346-140.
Bowe Bohler & Weber K.G.: *See—*
Fuhring, Heinrich; and Petrich, Erwin, 3,425,141.
Fuhring, Heinrich; and Fleschhut, Richard, 3,466,688.
Bowe Bohler & Weber KG, Maschinenfabrik: *See—*
Fuhring, Heinrich; and Fleschhut, Richard, 3,484,884.
Bowell, Stephen T.: *See—*
Phillips, Gordon; and Bowell, Stephen T.,3,446,764.
Bowen, Casey E. Drafting and navigational instruments. 3,456,352, 7-22-69, Cl. 33-76.
Bowen, Charles W., Jr.; and Stapper, William R., to Bell Aerospace Corporation. Automatic control for hydraulic systems. 3,474,819, 10-28-69, Cl. 137-334.
Bowen, Donald R.; and Fischer, Raymond G., to General Motors Corporation. Fastener tester. 3,429,179, 2-25-69, Cl. 73-133.
Bowen, Eldred W., to Pet Incorporated. Heat sealer. 3,425,887, 2-4-69, Cl. 156-518.
Bowen, F. D.: *See—*
Perkins, Bernard C., 3,421,494.
Bowen, G. L., & Co.: *See—*
Bowen, Glen L.; Fishman, Milton; McVay, John H.; and Francis, Albert W., 3,439,959.
Bowen, Gilbert: *See—*
Perkins, Bernard C., 3,421,494.
Bowen, Glen L.; Fishman, Milton; McVay, John H.; and Francis, Albert W., to Bowen, G. L., & Co. Endless steel track construction. 3,439,959, 4-22-69, Cl. 305-37.
Bowen, Griffith, to Du Pont de Nemours, E. I., and Company. Glass laminate and interlayer. 3,437,552, 4-8-69, Cl. 161-165.
Bowen, Howard: *See—*
Bessonny, Al l.; and Bowen, Howard,3,432,672.
Bowen, James R.: *See—*
Flint, Graham W.; and Bowen, James R.,3,469,144.
Heller, Ralph M.; and Bowen, James R.,3,479,643.
Bowen, John D., Jr., to Martin-Marietta Corporation. Unusual structural material. 3,449,202, 6-10-69, Cl. 161-170.
Bowen, John T.: *See—*
Hinck, Ernest C., III; and Bowen, John T.,3,478,958.
Bowen, John T., to Ingersoll-Rand Company. Liquid spring. 3,431,985, 3-11-69, Cl. 173-119.
Bowen, Kermit A. Automatic perspective drafting machine. 3,425,126, 2-4-69, Cl. 33-18.
Bowen Tools, Inc.: *See—*
Lee, William T., 3,424,247.
Lee, William T., 3,435,895.
Pilcher, David W., 3,475,991.
Slator, Damon T.; and Burns, Albert L., Jr., 3,481,610.
Bowen, Willard L., III, to Torrington Company, The. Ball bushing rod end and method of making same. 3,438,661, 4-15-69, Cl. 287-88.
Bower, Allen M., to Fluid Controls, Inc. Valve for converting single input flow into a plurality of pressure compensated regulated output flows. 3,435,838, 4-1-69, Cl. 137-101.
Bower, Arnold B., Jr., to General Electric Company. Self-centering cutter bit for drills. 3,434,552, 3-25-69, Cl. 175-410.
Bower, Arnold B., Jr., to General Electric Company. Cutter bit for drills. 3,434,554, 3-25-69, Cl. 175-410.
Bower, Arnold B., Jr., to General Electric Company. Cutter bit. 3,476,438, 11-4-69, Cl. 299-86.
Bower, Harman J. Warning apparatus for an internal combustion engine. 3,485,203, 12-23-69, Cl. 116-70.
Bower, Lewis Robert, to Wild, A. G., & Co. Limited. Hydraulic roof supports. 3,431,737, 3-11-69, Cl. 61-45.
Bower, Richard Raymond, to International Telephone and Telegraph Corporation. Box erecting apparatus. 3,457,843, 7-29-69, Cl. 93-53.
Bower, Richard R., to International Telephone and Telegraph Corporation. Assembly conveyor system. 3,476,231, 11-4-69, Cl. 198-19.
Bower, Robert W.: *See—*
Mayer, James W.; Bower, Robert W.; and Shifrin, Gordon A.,3,483,443.
Bower, Robert W., to Hughes Aircraft Company. Field-effect device with insulated gate. 3,472,712, 10-14-69, Cl. 148-187.
Bower, Robert W.; and Stewart, Richard F., to Hughes Aircraft Company. Multirank multistage shift register. 3,421,092, 1-7-69, Cl. 328-37.
Bower, Warren H.: *See—*
Martin, John L.; MacKey, Robert J.; and Bower, Warren H.,3,431,011.
Bowerman, Martin, to Martin Engineering Company. Saw blade grinder. 3,457,809, 7-29-69, Cl. 76-40.
Bowers, Albert: *See—*
Ringold, Howard J.; and Bowers, Albert,3,452,058.
Ringold, Howard J.; and Bowers, Albert,3,485,852.
Ringold, Howard J.; Bowers, Albert; Rosenkranz, George; and Mancera, Octavio,3,438,978.
Bowers, Albert, to Syntex Corporation. 1-Cyano-androstanes. 3,423,436, 1-21-69, Cl. 260-397.45
Bowers, Albert, to Syntex Corporation. 19-Oxo-and 19-lower alkyl-19-oxoandrostane derivatives. 3,449,381, 6-10-69, Cl. 260-397.4
Bowers, Albert; Edwards, John; and Orr, James C., to Syntex Corporation, mesne. 3 Methylene-androstan-17β ols and 17-alkyl derivatives thereof. 3,427,386, 2-11-69, Cl. 424-238.
Bowers, Bobby O.: *See—*
Wimer, William E.; Bowers, Bobby O.; and Neikirk, Gerald R.,3,423,477.
Bowers, Charles E., Jr., to Fibre-Metal Products Company, The. Protective head covering. 3,422,459, 1-21-69, Cl. 2-3.
Bowers, Charles E. Guitar pick holder. 3,442,169, 5-6-69, Cl. 84-322.
Bowers, Charles W., to Mac Tools, Inc. Wrench socket with multi-sided and special shaped driving faces. 3,466,956, 9-16-69, Cl. 81-121.
Bowers, Clarence A.; and Bullington, John W., to Monsanto Company. Chromatography paper produced by impregnating a substrate with a solution of polyester in chloral hydrate. 3,475,208, 10-28-69, Cl. 117-155.
Bowers, David L., to General Electric Company. Stimulator analyzer and locator. 3,426,748, 2-11-69, Cl. 128-2.06
Bowers, Frederic M.; and Wagner, Regina D., to United States of America, Navy. Nondestructive method for testing batteries. 3,440,015, 4-22-69, Cl. 23-230.
Bowers, Grayson Hunter, Jr. Apparatus for making roof trusses. 3,420,514, 1-7-69, Cl. 269-156.

Bowers, Grayson Hunter, Jr. Apparatus for making wall panel frames. 3,431,619, 3-11-69, Cl. 29-200.
Bowers, Herbert L., to Ritter Pfaudler Corporation. Method and apparatus for demineralizing water. 3,444,079, 5-13-69, Cl. 210-37.
Bowers, John O., Jr., to General Dynamics Corporation. Gating circuit utilizing junction type field effect transistor as input driver to gate driver. 3,443,122, 5-6-69, Cl. 307-205.
Bowers, Klaus D., to Bell Telephone Laboratories, Incorporated. Laminate optical memory with selective erase. 3,479,651, 11-18-69, Cl. 340-173.
Bowers, Klaus D.; and Morton, Jack A., to Bell Telephone Laboratories, Incorporated. Optical memory system. 3,421,154, 1-7-69, Cl. 340-174.
Bowers, Lester T.: *See*—
Corrigan, James D.; Bowers, Lester T.; Gilmour, Richard C.; and Wolff, Robert A.,3,436,521.
Bowers, Richard A. Power rake and aerator attachment. 3,455,398, 7-15-69, Cl. 172-21.
Bowers, Virginia S.; Breazeale, Francis B.; and Rice, Charles M., to American Enka Corporation. Torque yarn process. 3,435,607, 4-1-69, Cl. 57-157.
Bowers, William E.; and Whitfill, William A., to Schlumberger Technology Corporation. Methods and apparatus for determining depth in boreholes. 3,465,447, 9-9-69, Cl. 33-133.
Bowersox, Harold W., to Wyandotte Chemicals Corporation. Skimmer. 3,465,882, 9-9-69, Cl. 210-154.
Bowersox, Joseph W. Pop-up traffic sentinal. 3,447,429, 6-3-69, Cl. 94-1.5
Bowes, John D., Jr., to Philco-Ford Corporation. Transceive and tracking antenna horn array. 3,482,251, 12-2-69, Cl. 343-776.
Bowie, Raymond Alexander; Grant, Mervyn Stuart; and Jones, William Glynne Moss, to Imperial Chemical Industries Limited. Esters of 6,7-disubstituted-4-hydroxy- quinoline-3-carboxylic acid. 3,463,779, 8-26-69, Cl. 260-287.
Bowie, William J.: *See*—
Bienwald, Wolfgang F.; and Bowie, William J.,3,435,169.
Bowin, Richard E. Apparatus for forming sheet material to provide three dimensional shapes. 3,444,589, 5-20-69, Cl. 18-19.
Bowker, Gordon Stanley: *See*—
Herp, Henry Carl, Jr.; Kelsall, Avery Crowell; Bowker, Gordon Stanley; and Bennett, Hilton Alvin, Jr.,3,453,087.
Bowker, Gordon. Protection of woody perennials. 3,423,875, 1-28-69, Cl. 47-2.
Bowker, Rockton A. Trolling device. 3,470,648, 10-7-69, Cl. 43-21.2
Bowler, Richard G.; and Miller, Robert E., to National Cash Register Company, The. Record sheet sensitized with phenolic polymeric material. 3,466,184, 9-9-69, Cl. 117-36.2
Bowler, William W.: *See*—
Libengood, George B.; and Bowler, William W.,3,483,174.
Bowles, Arnold G., to National Forge Company. Automatically operating air vent for isostatic moulding press. 3,451,101, 6-24-69, Cl. 18-5.
Bowles, Arnold G. Method for the manufacture of brick and tile. 3,461,196, 8-12-69, Cl. 264-148.
Bowles, Arnold G.; and Manelick, James M., to National Forge Company. Self-closing vacuum port for dry bag isostatic moulding press. 3,477,096, 11-11-69, Cl. 18-5.
Bowles, David E. Selective soaper-rinser apparatus. 3,468,325, 9-23-69, Cl. 137-81.5
Bowles, David L.: *See*—
Krummel, Donald E.; and Bowles, David L.,3,444,490.
Bowles Engineering Corporation: *See*—
Bauer, Peter, 3,426,800.
Bauer, Peter, 3,434,487.
Bauer, Peter, 3,439,695.
Bowles, Romald E., 3,467,043.
Bowles, Romald E., 3,467,121.
Bowles, Romald E., 3,483,889.
Bowles, Ronald E., 3,431,930.
Colston, John R., 3,450,145.
Colston, John R., 3,461,895.
Dexter, Edwin M., 3,420,109.
Dexter, Edwin M.; and Humphrey, Ronald L., 3,428,067.
Dexter, Edwin M., 3,459,054.
Dexter, Edwin M., 3,459,206.
Dexter, Edwin M.; and Di Camillo, Carmine V., 3,461,900.
Dexter, Edwin M., 3,467,125.
Di Camillo, Carmine V., 3,461,899.
Di Camillo, Carmine V., 3,468,340.
Jones, Donnie R., 3,468,323.
Jones, Donnie Roland, 3,467,122.
Jones, Donnie Roland; and Sowers, Edwin U., III, 3,468,327.
Jones, Donnie Roland, 3,481,180.
Metzger, Eric E., 3,429,322.
Metzger, Eric E., 3,430,055.
Metzger, Eric E., 3,468,328.
O'Neill, William C., III, 3,449,957.
Proctor, Edward D., 3,442,447.
Schrader, Gerald R., 3,468,324.
Bowles, John Patrick, to English Electric Company Limited, The. Regulated D. C. power supply with frequency- selective ripple removal. 3,453,526, 7-1-69, Cl. 321-19.
Bowles, Letcher H. Apparatus for feeding dry particulate chlorinating reagent into a swimming pool. 3,456,801, 7-22-69, Cl. 210-169.
Bowles, Richard S., to Procter & Gamble Company, The. Plastic container with internal reinforcing structure. 3,474,927, 10-28-69, Cl. 215-1.
Bowles, Romald E., to Bowles Engineering Corporation. Pure fluid force generator. 3,467,043, 9-16-69, Cl. 114-66.5
Bowles, Romald E., to Bowles Engineering Corporation. Dual fluid systems. 3,467,121, 9-16-69, Cl. 137-81.5
Bowles, Romald E., to Bowles Engineering Corporation. Fluidic capacitors. 3,483,889, 12-16-69, Cl. 137-575.
Bowles, Romald E.; and Horton, Billy M. Fluid amplifier. 3,446,078, 5-27-69, Cl. 137-81.5
Bowles, Ronald E., to United States of America, Army. Rifle grenade fuze. 3,425,349, 2-4-69, Cl. 102-65.2
Bowles, Ronald E., to Bowles Engineering Corporation. Dual fluid vortex valve. 3,431,930, 3-11-69, Cl. 137-81.5
Bowley, Thomas William; and Robertson, William, to United-Carr Incorporated, mesne. Plug for co-axial cables. 3,452,323, 6-24-69, Cl. 339-177.
Bowley, Thomas William; and Smith, Leslie Haynes, to United-Carr, Incorporated. Electrical contact and edge connector having such a contact. 3,421,136, 1-7-69, Cl. 339-217.
Bowlin, John A. Pipe joint. 3,482,859, 12-9-69, Cl. 285-332.3
Bowling, Joseph E., Jr.: *See*—
Carpenter, James H.; and Bowling, Joseph E., Jr.,3,460,291.
Bowling, Lin W.; and Nyborg, Robert N., to Kaiser Steel Corporation. Modular wall system and method and joint assembly therefor. 3,486,285, 12-30-69, Cl. 52-284.
Bowling, Teamus: *See*—
Jordan, Samuel C.; and Bowling, Teamus,3,484,858.
Bowman, Clyde L.: *See*—
De Good, Maynard J.; and Bowman, Clyde L.,3,420,355.
De Good, Maynard J.; and Bowman, Clyde L.,3,429,417.
Bowman, Donald C., to Sinclair Research, Inc., mesne. Apparatus for measurement of azimuth. 3,434,219, 3-25-69, Cl. 33-205.
Bowman, Francis; Cooper, Albert Charles; and Irving, Francis, to Imperial Chemical Industries Limited. Mass-coloration of synthetic linear polyesters. 3,424,708, 1-28-69, Cl. 260-40.
Bowman, George H.: *See*—
Absolon, Eric W.; and Bowman, George H.,3,478,927.
Bowman, Harry R.; Thompson, Stanley G.; Hyde, Earl K.; and Jared, Richard C., to United States of America, Atomic Energy Commission. Semiconductor X-ray emission spectrometer. 3,433,954, 3-18-69, Cl. 250-83.3
Bowman, Howard R., to Deering Milliken Research Corporation. Loom box front. 3,422,863, 1-21-69, Cl. 139-183.
Bowman, Jan: *See*—
Martinet, Jacques R.; and Bowman, Jan,3,468,526.
Bowman, Jan, to Kaiser Aluminum & Chemical Corporation. Apparatus for gunning refractory material having adjustable nozzle positioning means. 3,473,737, 10-21-69, Cl. 239-187.
Bowman, Joe, to Scott & Fetzer Company, The, mesne. Sub-interval timer. 3,467,795, 9-16-69, Cl. 200-38.
Bowman, John Michael, to Du Pont de Nemours, E. I., and Company. Vulcanization of polychloroprenes with epoxides and thioureas. 3,459,694, 8-5-69, Cl. 260-23.7
Bowman, Kenneth Frederick Charles: *See*—
Steer, Ensor William Harold; and Bowman, Kenneth Frederick Charles,3,457,642.
Bowman, Kenneth Ralph. Recovery process and apparatus. 3,475,279, 10-28-69, Cl. 201-32.
Bowman, Lawrence Everton, to Leonard Valve Company. Mixing valve. 3,456,670, 7-22-69, Cl. 137-100.
Bowman, Raymond D., to Seeburg Corporation, The. Vending cycle lockout circuit. 3,486,601, 12-30-69, Cl. 194-10.
Bowman, Richard A.; and Pilloton, Roger L., to United States of America, Atomic Energy Commission. Method for preparing metal oxide microspheres. 3,422,167, 1-14-69, Cl. 264-0.5
Bowman, Robert S.: *See*—
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H.,3,483,046.
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H.,3,484,305.
Bowman, Robert S., to St. Joseph Lead Company. Electrically conductive zinc oxide. 3,475,351, 10-28-69, Cl. 252-518.
Bowman, Ronald, to Whittaker Corporation, mesne. Stress sensor. 3,446,064, 5-27-69, Cl. 73-88.5
Bowman, Russel A.; and Wilson, Bruce N., to Hooker Chemical Corporation. Oxyalkylation process of polyesters. 3,455,995, 7-15-69, Cl. 260-485.
Bowman, Russel A.; and Wilson, Bruce N., to Hooker Chemical Corporation. Antimony alcoholate catalyst composition. 3,471,411, 10-7-69, Cl. 252-431.
Bowman, Spencer; and McClimon, Alan S., to Koehring Company. Material handling apparatus. 3,472,405, 10-14-69, Cl. 214-501.

Bowman, Thomas C., to Acme Highway Products Corporation. Joint seal. 3,482,492, 12-9-69, Cl. 94-18.

Bowman, Warren; Roberts, Dennis M.; and Sellger, Paul G., to Du Pont de Nemours, E. I., and Company. Lacquer compositions containing nitrocellulose an ethylene/vinyl acetate copolymer and sucrose acetate isobutyrate. 3,476,694, 11-4-69, Cl. 260-17.

Bowmar Instrument Corporation: *See—*
Buuck, Frederick A.; Harden, Phillip L.; and Thomas, Samuel M., Jr., 3,478,349.

Bown, Delos E.: *See—*
Patton, Robert H.; and Bown, Delos E.,3,425,984.
Patton, Tad L.; Horeczy, Joseph T.; and Bown, Delos E.,3,477,991.

Bownes, Kenneth A.; and Bendrick, Edward S., to Interchemical Corporation. Novel nitrocellulose flexographic printing inks. 3,472,802, 10-14-69, Cl. 260-13.

Bownes, Victor J. Handheld paint brush wringer. 3,430,286, 3-4-69, Cl. 15-257.

Bowser, George H., to PPG Industries, Inc. Process of casting resinous lenses in thermoplastic cast replica molds. 3,422,168, 1-14-69, Cl. 264-1.

Bowser, George, to PPG Industries, Inc. Process for casting resinous lenses in thermoplastic cast replica molds. 3,423,488, 1-21-69, Cl. 264-1.

Bowser, Inc.: *See—*
Fowler, Leslie L., 3,464,557.
Hoskins, Edward H.; and Terhune, Ralph D., 3,481,479.
Topol, George J., 3,441,737.

Bowser, Robert Emery: *See—*
Best, Howard S.; and Bowser, Robert Emery,3,425,166.

Bowshier, Ernest E., to Saucercraft, Inc. Circular VTOL aircraft. 3,465,989, 9-9-69, Cl. 244-23.

Box, E. O., Jr., to Phillips Petroleum Company. Disproportion of propane. 3,446,868, 5-27-69, Cl. 260-676.

Box, E. O., Jr.; and Hepp, Harold J., to Phillips Petroleum Company. Catalytic dehydrogenation process to convert normal-hexane to naphthenes. 3,461,177, 8-12-69, Cl. 260-673.5

Box, E. O., Jr.: *See—*
Hepp, Harold J.; and Box, E. O., Jr.,3,461,183.

Box, James A.: *See—*
Lake, Clarence L.; Box, James A.; and Golla, William J.,3,427,776.

Box, William A.; and Rall, Waldo, to United States Steel Corporation. Apparatus for vaporizing metal. 3,467,058, 9-16-69, Cl. 118-49.5

Boxal Beaurepaire S.A.: *See—*
Dolveck, Gilbert, 3,430,594.
Kahn, Maurice M., 3,435,998.

Boxboard Research and Development Association: *See—*
Snow, Richard H., 3,477,138.

Boxer, Victor, to United States of America, Army. Miniature solid state microwave source. 3,484,661, 12-16-69, Cl. 317-235.

Boxley, Julian M., to Delta Air Lines, Inc. Instruction device. 3,456,363, 7-22-69, Cl. 35-13.

Boya, Theodore L. F.; and Burger, Harry, Jr. Right-of-way signalling system for vehicles. 3,462,733, 8-19-69, Cl. 340-54.

Boyadjieff, George I., to Bendix Corporation, The. Fluid variable pressure device. 3,461,833, 8-19-69, Cl. 116-65.

Boyadjieff, George I., to Bendix Corporation, The. Fluid pressure regulator. 3,473,545, 10-21-69, Cl. 137-81.5

Boyajian, Joseph Jacob, to United States of America, Navy. Voltage controlled field-effect transistor L-C oscillator. 3,421,111, 1-7-69, Cl. 331-117.

Boyce, David B.; Minicucci, Peter, Jr.; and Stegenga, Jerry A., to Milgo Electronic Corporation. Depository packaging system. 3,446,328, 5-27-69, Cl. 194-4.

Boyce, Guy Baron, to Binks-Bullows Limited. Storage apparatus. 3,442,565, 5-6-69, Cl. 312-319.

Boyce, Harold D.: *See—*
Soderquist, Frederick J.; Boyce, Harold D.; and Kline, Paul E.,3,435,086.

Boyce, Ian Stanley; and Ahier, Thelma Grace, to United Kingdom Atomic Energy Authority. Method and apparatus for X-ray analysis with compensation for an interfering element. 3,467,824, 9-16-69, Cl. 250-51.5

Boyce, John E.: *See—*
Hersh, Harold R.; and Boyce, John E.,3,432,452.
Elliott, James Carl; and Boyce, John,3,443,689.

Boyce, John, to FMC Corporation. Container orienting apparatus. 3,462,001, 8-19-69, Cl. 198-33.

Boyce, John, to FMC Corporation. Aerodynamic sorting. 3,469,691, 9-30-69, Cl. 209-133.

Boyce, John, to FMC Corporation. Tomato harvester. 3,473,613, 10-21-69, Cl. 171-14.

Boyce, Walter A., to Westinghouse Electric Corporation. Lamp monogram and monogram ink. 3,442,038, 5-6-69, Cl. 40-2.2

Boyce, William D., II. Landing shells and method of using. 3,460,504, 8-12-69, Cl. 115-1.

Boyd, A. C. Animal shock devices for refuse cans. 3,480,176, 11-25-69, Cl. 220-85.

Boyd, Aubrey B.; and Baugh, Jarod L., to North American Rockwell Corporation. Igniter safe and arm. 3,439,617, 4-22-69, Cl. 102-70.2

Boyd, Charles A., to Aeroprojects Incorporated. Vibratory catheterization apparatus and method of using. 3,433,226, 3-18-69, Cl. 128-305.

Boyd, Charles A.; and Kartluke, Herbert, to Aeroprojects Incorporated. Apparatus and method for detection of aliphatic hydrocarbon in water. 3,436,188, 4-1-69, Cl. 23-230.

Boyd, David M., Jr., to Universal Oil Products Company, mesne. Process control system. 3,458,691, 7-29-69, Cl. 235-151.12

Boyd, David M., Jr.; and Rockey, Kenneth O., to Universal Oil Products Company. In-line magnetic particle collector. 3,428,179, 2-18-69, Cl. 210-222.

Boyd, David M., to Universal Oil Products Company. System and method for fractionation. 3,436,337, 4-1-69, Cl. 208-92.

Boyd, David M., to Universal Oil Products Company. Method of optimizing heat input to a fractionation column. 3,464,895, 9-2-69, Cl. 203-2.

Boyd, David R.: *See—*
Sihvonen, Yro T.; Boyd, David R.; and Kitts, Earle L., Jr.,3,426,209.

Boyd, Donald E.: *See—*
Boyd, John A.; and Boyd, Donald E.,3,424,078.

Boyd, Edward L., to International Business Machines Corporation. Core testing methods and apparatus. 3,481,184, 12-2-69, Cl. 73-67.2

Boyd, James R., to De Laval Turbine, Inc. Timing apparatus for filtration system. 3,421,624, 1-14-69, Cl. 210-96.

Boyd, James W.; and Bessett, Clifford H., to Packaging Corporation of America. Tray construction. 3,420,395, 1-7-69, Cl. 217-26.5

Boyd, Joe M.; Grandio, Philip, Jr.; and Lobb, James R., to Monsanto Company. Apparatus for flame reaction of hydrocarbons. 3,438,741, 4-15-69, Cl. 23-277.

Boyd, Joe S., to Cabot Corporation. Process and apparatus for the production of carbon black. 3,420,631, 1-7-69, Cl. 23-209.4

Boyd, John A.; and Boyd, Donald E., to Boyd Package Trash Systems, Inc. Trash handling and baling system. 3,424,078, 1-28-69, Cl. 100-49.

Boyd, John, to Westinghouse Electric Corporation. Self-aligning hydrostatic bearing. 3,476,447, 11-4-69, Cl. 308-9.

Boyd, Johnye G. Educational device. 3,460,273, 8-12-69, Cl. 35-35.

Boyd, Joseph J. Chain coupling. 3,459,008, 8-5-9, Cl. 64-19.

Boyd, Oley A. Water temperature control unit. 3,476,314, 11-4-69, Cl. 236-12.

Boyd Package Trash Systems, Inc.: *See—*
Boyd, John A.; and Boyd, Donald E., 3,424,078.

Boyd, Reed Lake, to Certified Chemical & Equipment Company, The. Foam generator for rug cleaning machine. 3,428,985, 2-25-69, Cl. 15-50.

Boyd, Robert L.: *See—*
Johnston, Gerald T.; Fleming, Joseph T.; and Boyd, Robert L.,3,465,233.

Boyd, Thomas R.; Cosenza, Frank J.; and Yamamoto, Albert K., to Tridair Industries, mesne. Releasable fastening device. 3,477,333, 11-11-69, Cl. 85-5.

Boyd, Thomas: *See—*
Trementozzi, Quirino A.; Geymer, Douglas O.; Boyd, Thomas; and Dietrich, Heinz J.,3,482,935.

Boyd, Walter A., Jr.; and Lakso, Hugo A., to Bryant Chucking Grinder Co. Rotary truing device for grinding wheels. 3,481,319, 12-2-69, Cl. 125-11.

Boyd, William R.: *See—*
Franklin, Robert C.; and Boyd, William R.,3,453,645.

Boyd, William R., to Beckman Instruments, Inc. Photoelectric scanning system for ultracentrifuges having periodic calibration means. 3,470,381, 9-30-69, Cl. 250-218.

Boyd, Wilton E., to General Electric Company. Vacuum cleaner. 3,460,188, 8-12-69, Cl. 15-364.

Boyd, Zane R. Folding ladder. 3,447,632, 6-3-69, Cl. 182-116.

Boyden, James H., to Union Carbide Corporation. Giant pulse laser system incorporating dual Q-switching means. 3,423,695, 1-21-69, Cl. 331-94.5

Boyden, James H., to United States of America, Army. Torsion pendulum Q-switch for optical masers. 3,484,717, 12-16-69, Cl. 331-94.5

Boydman, Hyman P.: *See—*
Tepper, Sidney; and Boydman, Hyman P.,3,444,645.

Boye, Frederick C.: *See—*
Cheng, Chao-Shing; and Boye, Frederick C.,3,487,092.

Boye Needle Company, The: *See—*
Ingersoll, George L., 3,438,224.
Linstead, Lorraine A., 3,429,019.
Linstead, Lorraine A., 3,438,223.

Boyen, John L.: *See—*
Edgemond, John W., Jr.; and Boyen, John L.,3,448,770.

Boyenval, Bernard; and Labbe, Albert, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Fastening devices notably for securing beadings to the bodies of vehicles. 3,448,494, 6-10-69, Cl. 24-73.

Boyer, Charles B.; Conaway, Robert Michael; and Orcutt, Franklin D., to Battelle Development Corporation, The. Remote switching device. 3,466,656, 9-9-69, Cl. 346-34.
Boyer, Charles B.; and Orcutt, Franklin D., to Battelle Development Corporation, The. High pressure furnace. 3,427,011, 2-11-69, Cl. 263-40.
Boyer, Charles J., to E & B Incorporated. Welding goggle. 3,444,561, 5-20-69, Cl. 2-8.
Boyer, Charles J.: *See—*
Simpson, Jack N.; and Boyer, Charles J.,3,457,565.
Simpson, Jack N.; and Boyer, Charles J.,3,458,865.
Boyer, Emanuel F. Cabbage harvester. 3,426,515, 2-11-69, Cl. 56-327.
Boyer, Gary W., to Hoerner-Waldorf Corporation. Disposable cooler. 3,465,948, 9-9-69, Cl. 229-14.
Boyer, George Wesley, to Leach Corporation. Apparatus for transporting elongated material. 3,430,879, 3-4-69, Cl. 242-55.12
Boyer, Jackson S.; and Didot, Francois E., to Avisun Corporation. Novel method of blending olefin polymers and additives. 3,447,883, 6-3-69, Cl. 8-4.
Boyer, James H., Jr., to North American Rockwell Corporation, mesne. Pattern chain control means for knitting. 3,477,253, 11-11-69, Cl. 66-40.
Boyer, James Thomas, to Burroughs Corporation. Mold for making an electron tube assembly. 3,481,576, 12-2-69, Cl. 249-91.
Boyer, Jean-Jacques. Arrangement for raising railroad tracks. 3,481,278, 12-2-69, Cl. 104-7.
Boyer, John L., to International Rectifier Corporation. Pressure assembled semiconductor device using massive flexibly mounted terminals. 3,452,254, 6-24-69, Cl. 317-234.
Boyer, John L., to International Rectifier Corporation. High voltage glass sealed semiconductor device. 3,475,663, 10-28-69, Cl. 317-234.
Boyer, John L.: *See—*
Scott, Angus A.; Boyer, John L.; and Hartman, Richard A.,3,428,871.
Boyer, Kerwin R., to Singer Company, The. Hosiery knitting with improved make up and transfer. 3,423,961, 1-28-69, Cl. 66-41.
Boyer, Lyndon D., to Continental Oil Company. Growth product olefins process. 3,458,594, 7-29-69, Cl. 260-683.15
Boyer, Nicodemus E., to Lord Corporation, mesne. Metal salts of quinoid nitroximes. 3,455,971, 7-15-69, Cl. 260-396.
Boyer, Nolan D.: *See—*
Hanson, Doyce B.; Hansen, John E.; and Boyer, Nolan D.,3,422,180.
Boyer, Ralph E., to United States of America, Navy, mesne. Circuit module guide and retaining device. 3,434,687, 3-25-69, Cl. 248-361.
Boyer, Ralph K., to Goodyear Tire & Rubber Company, The. Gauge for determining and adjusting pressure in two chamber tire. 3,479,868, 11-25-69, Cl. 73-146.8
Boyer, Ralph K.; Eycdam, Homer F.; and Krohn, Henry W., to Eaton Yale & Towne, Inc. Filling valve structure for pressurized containers. 3,422,837, 1-21-69, Cl. 137-322.
Boyer, Raymond F.; Grenley, Dallas G.; and Anspaugh, Robert H., to Dow Chemical Company, The. Dental compositions and process. 3,462,839, 8-26-69, Cl. 32-15.
Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A., to Ralston Purina Company. Method of manufacturing a protein food product. 3,468,669, 9-23-69, Cl. 99-17.
Boyertown Burial Casket Company: *See—*
Eisenhard, Eli S., 3,461,517.
Yoder, Harold R., 3,479,772.
Boyertown Packaging Service Corporation: *See—*
Mutter, Charles J., 3,456,855.
Boyes, David W.; and Potter, Douglas E., to Owens-Corning Fiberglas Corporation. Glass fabric having improved yarn slippage and hand. 3,444,120, 5-13-69, Cl. 260-29.6
Boyes, John T. Apparatus for forming pleats in drapes. 3,445,044, 5-20-69, Cl. 223-32.
Boyes, William Allan: *See—*
Willis, Harry Arthur; and Boyes, William Allan,3,437,811.
Boyhan, Matthew B.; and Venkatesan, Peruvemba Swaminatha, to Leesona Corporation. Method of preparing metal blacks. 3,443,933, 5-13-69, Cl. 75-108.
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H., to Western Electric Company, Incorporated. Method of refinishing the surfaces of a plastic article. 3,437,727, 4-8-69, Cl. 264-341.
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H., to Western Electric Company, Incorporated. Method of refinishing the surfaces of a plastic article. 3,443,008, 5-6-69, Cl. 264-341.
Boykin, Curtis R., to Westinghouse Electric Corporation. Circuitry for protecting a push-pull switching driver stage upon occurrence of a short circuit at the output thereof. 3,447,035, 5-27-69, Cl. 317-31.
Boykin, John R., to Westinghouse Electric Corporation. Circuitry for simultaneously modulating and amplifying a carrier signal. 3,480,881, 11-25-69, Cl. 332-9.
Boykin, Philip J., to Phillips Petroleum Company. Purification of refrigerant. 3,478,529, 11-18-69, Cl. 62-85.
Boykin, Robert O., Jr. Jouncing board. 3,466,031, 9-9-69, Cl. 272-65.
Boykin-Warner, Enterprises: *See—*
Wright, Vernon D.; and Eldridge, Lewis E., 3,450,315.
Boylan, Carol Clark, to Walbro Corporation. Blade adapter. 3,430,461, 3-4-69, Cl. 64-28.
Boylan, David R.; and Feng, Kuo Kang. Method of producing dicalcium phosphate. 3,427,124, 2-11-69, Cl. 23-109.
Boylan, Jack B.; Aylesworth, Robert D.; and Boehringer, Raymond H., to Emery Industries, Inc. Lubricant composition and method of refining. 3,485,754, 12-23-69, Cl. 252-56.
Boylan, Jack B.; and Shanafelt, Gene K., to Emery Industries, Inc. Alkyd resins and alkyd resin flexographic coating compositions. 3,481,891, 12-2-69, Cl. 260-21.
Boyle, Charles F.: *See—*
Granfors, Ernest A.; Loveless, Don L.; Boyle, Charles F.; and Kompanek, Harry W.,3,444,508.
Boyle, Donn George; and Osborn, Robert Otto, to Du Pont de Nemours, E. I., and Company. Flow device and method of manufacture thereof. 3,467,142, 9-16-69, Cl. 138-111.
Boyle, Eldridge R., Jr., to Polaroid Corporation. Exposure value compensator. 3,429,243, 2-25-69, Cl. 95-10.
Boyle, Francis A.: *See—*
Weldes, Helmut H.; Boyle, Francis A.; and Bobb, John S. Stephen,3,440,175.
Boyle, Francis B. Outdoor electrical meter box and service outlet for mobile homes. 3,450,951, 6-17-69, Cl. 317-105.
Boyle, George W. Lock for a gear shift. 3,465,558, 9-9-69, Cl. 70-181.
Boyle, Gerald P., to Leeds & Northrup Company. Immersion molten metal sampler. 3,455,164, 7-15-69, Cl. 73-354.
Boyle, Joseph C., to United States of America, National Aeronautics and Space Administration. Balance torquemeter. 3,460,381, 8-12-69, Cl. 73-133.
Boyle, Willard S.; and Verleur, Hans W., to Bell Telephone Laboratories, Incorporated. Apparatus and method for achieving temperature stabilization of a radiator using thermoreflectance materials. 3,473,602, 10-21-69, Cl. 165-1.
Boyle, Willard Sterling; and Creaghan, David Cyril. Snow making. 3,434,661, 3-25-69, Cl. 239-2.
Boyles, Alfred: *See—*
Beyer, John H.; and Boyles, Alfred,3,464,253.
Boyles, Alfred, to United States Pipe and Foundry Company. Method for testing ductile iron castings. 3,440,868, 4-29-69, Cl. 73-88.
Boyles Bros. Drilling Company: *See—*
Martinsen, Lyle J., 3,441,098.
Martinsen, Lyle J.; and Matthews, Stanton L., 3,463,255.
Martinsen, Lyle J., 3,482,103.
Martinsen, Lyle J., 3,485,308.
Boyles, Robert L., to General Electric Company. Radio and alarm control mechanism. 3,475,899, 11-4-69, Cl. 58-21.155
Boylston, Eileen K.: *See—*
Beninate, John V.; Boylston, Eileen K.; and Drake, George L., Jr.,3,480,381.
Boymel, Bernard R., to United States of America, Navy, mesne. Solid state constant current regulator. 3,448,371, 6-3-69, Cl. 323-4.
Boyne Products, Inc.: *See—*
Poleschuk, Nicholas A., 3,462,570.
Boyne, William J.; Little, Jack R.; and Wagner, Ulrich, to Borden, Inc., and Uniroyal, Inc. Inhibition of polymer disposition in acetylene extraction systems. 3,432,993, 3-18-69, Cl. 55-64.
Boynton, David G.: *See—*
Cliffgard, Arnie L.; and Boynton, David G.,3,440,518.
Boynton, Ira Dana: *See—*
Glaser, Paul W.; and Boynton, Ira Dana,3,425,571.
Boynton, Kenneth G.: *See—*
Carini, Alexander F.; Wegener, Howard W.; and Boynton, Kenneth G.,3,435,801.
Diggins, Thomas; Carini, Alexander; and Boynton, Kenneth,3,438,386.
Boynton, Russell F.: *See—*
Ferm, Richard L.; and Boynton, Russell F.,3,445,258.
Boynton, Sumner H.: *See—*
Reever, Karl D.; Boynton, Sumner H.; and Berry, Robert D.,3,462,782.
Boynton, William W., and McCarthy, Leland: *See—*
Boynton, William Wentworth; Campbell, James R.; and Nisewanger, Carrol R., 3,421,301.
Boynton, William Wentworth; Campbell, James R.; and Nisewanger, Carrol R., to Boynton, William W., and McCarthy, Leland, mesne. Recovery of plant products. 3,421,301, 1-14-69, Cl. 56-30.
Boynton, William W., to said Boynton, William W., and McCarthy, Leland, mesne. System for recovery of cotton and like plant products. 3,486,315, 12-30-69, Cl. 56-30.
Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Ball or roller locks. 3,473,835, 10-21-69, Cl. 292-261.

Boys, Donald R.; Gelling, Homer R.; and Miller, John S., to General Motors Corporation. Ferrule for sealed beam headlamp. 3,445,584, 520-69, Cl. 174-50.52

Boys, Thomas M. A., to Grove-Jones, Leonard William George and Grove-Jones, Kathleen Lucy. Safety cap for bottles. 3,428,201, 2-18-69, Cl. 215-9.

Boysen, Gerd C.: *See—*
Walters, Robert E.; and Boysen, Gerd C.,3,430,014.

Boytz, Charles B.: *See—*
Armington, George E.; and Boytz, Charles B.,3,467,264.
Gustetic, Stanley J.; Boytz, Charles B.; and Engel, Henry,3,420,389.

Bozak, R. T., Mfg., Company, The: *See—*
Bozak, Rudolph T., 3,436,494.

Bozak, Rudolph T., to Bozak, R. T., Mfg., Company, The. Compliant annulus for loudspeaker and related circuit. 3,436,494, 4-1-69, Cl. 179-115.5

Bozarth, Milton H., Jr.: *See—*
Nutting, Bruce W.; and Bozarth, Milton H., Jr.,3,471,789.

Bozek, John S., to Continental Can Company, Inc. Two-piece plastic container with reinforcing means. 3,447,711, 6-3-69, Cl. 220-4.

Bozek, John S., to Continental Can Company, Inc. Apparatus for redrawing and wall ironing containers. 3,478,563, 11-18-69, Cl. 72-349.

Bozek, John W., to Bendix Corporation, The. Filter element. 3,442,391, 5-6-69, Cl. 210-457.

Bozek, John W., to Bendix Corporation, The. Shut-off valve for fuse filter. 3,478,881, 11-18-69, Cl. 210-96.

Bozeman, Hoyt William: *See—*
Reilly, Frank Ward; and Bozeman, Hoyt William,3,479,014.

Bozicevich, John, to Microbiological Associates, Inc. Serum substantially free from gamma globulin and method of preparing same. 3,429,867, 2-25-69, Cl. 260-112.

Bozicevich, John, to Bionetics Research Laboratories, Inc., mesne. Immunology. 3,449,488, 6-10-69, Cl. 424-8.

Bozich, Michael J. Conveying system and valve constructions therefor. 3,437,384, 4-8-69, Cl. 302-53.

Bozich, Michael J. Valve means having collapsible elastic sleeve. 3,485,472, 12-23-69, Cl. 251-5.

Bozoyan, Edward. Fluid control device. 3,421,544, 1-14-69, Cl. 137-505.47

Bozyk, David B. Package. 3,446,338, 5-27-69, Cl. 206-41.2

BP Chemicals (U.K.) Limited: *See—*
Auger, Frank Pawley, 3,477,207.
Dreiding, Andre S., 3,424,287.
Gasser, Clive Gordon; and Hamlin, James William, 3,437,566.
Hargrave, Kenneth Raymond, 3,472,860.

BPB Industries Limited: *See—*
Cafferata, Gerald Waterworth, 3,423,172.
Gwynne, Thomas, 3,422,590.
Harvey, Jack Lane; and Hudson, Joseph Dunn, 3,472,720.

Braaten, Amund, to International Standard Electric Corporation. Cable winding machine with flexible sensing unit. 3,473,314, 10-21-69, Cl. 57-106.

Braaten, Amund; and Wilhelmsen, Willy, to International Standard Electric Corporation. Cable winding machine. 3,478,505, 11-18-69, Cl. 57-59.

Braaten, Ralph A.: *See—*
Gies, Paul E.; Sperl, Gottlieb; and Braaten, Ralph A.,3,444,787.

Braathen, Finn N.: *See—*
Ferris, Charles L.; Babecki, Robert J.; Braathen, Finn N.; and Sirovatka, George J.,3,446,106.

Braatz, Douglas R., to Peebles Foods, Inc. Process of treating cheese whey. 3,431,113, 3-4-69, Cl. 99-57.

Brabander, Herbert Joseph: *See—*
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph,3,446,816.
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph,3,459,757.

Brabham, Hugh Basil Schofield, to General Electric Company Limited, The. Network for matching an aerial to a radio transmitter. 3,464,015, 8-26-69, Cl. 325-172.

Brabon, Roger; Beaumariage, Andre; De Boeck, Willy; De Broeyer, Roland; Delplancke, Firmin; and Van Innis, Marcel, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Subtitling system for television programs. 3,465,097, 9-2-69, Cl. 178-6.

Brac Aktiengesellschaft: *See—*
Spohn, Karl, 3,474,199.

Brac Ltd.: *See—*
Tschudin, Oswald, 3,433,984.

Braca, Giuseppe: *See—*
Pino, Piero; Braca, Giuseppe; and Sbrana, Glauco,3,459,812.

Braca, Guiseppe: *See—*
Pino, Piero; and Braca, Guiseppe,3,446,591.

Braccini, Alfonso A., to Whittaker Corporation. Dish reflector with adjustable subreflector. 3,438,045, 4-8-69, Cl. 343-883.

Bracco, Cesare; and Taverna, Sergio, to Fiat Societa per Azioni. Mechanical press. 3,455,141, 7-15-69, Cl. 72-446.

Bracco, Donato J.: *See—*
Baczewski, Alexander; and Bracco, Donato J.,3,440,471.

Bracco, Fulvio: *See—*
Kovacs, Desidrio, 3,431,592.

Brace, Eldred C., to Banner Mining Company. Method for treating metallic sulfide compounds. 3,464,904, 9-2-69, Cl. 204-105.

Bracey, Kenneth Edward George; and Taylor, Paul Alfred, to Rolls-Royce Limited. Gas turbine engine. 3,448,582, 6-10-69, Cl. 60-226.

Bracey, Robert A.; Glossop, Donald L., Jr.; Hayosh, Robert J.; and Palazzolo, Joseph A., to Ford Motor Company. Convertible top mechanism. 3,473,842, 10-21-69, Cl. 296-116.

Brach, Ignacy, to Politechnicka Warszawska. General-purpose hydraulic shovel. 3,425,572, 2-4-69, Cl. 214-131.

Brachet, Roland F. C., to Societe Metrel. Unbonded resistance wire strain gage. 3,439,533, 4-22-69, Cl. 73-95.

Brachvogel, Heinz, to Volpi AG. Panoramic optical projection system. 3,450,469, 6-17-69, Cl. 352-69.

Brack, Karl, to Hercules Incorporated. Cross-linkable compositions and method of cross- linking and foaming same. 3,454,506, 7-8-69, Cl. 260-2.5

Bracken, Aubrey T.; Luhrs, Millen E.; and Green, Charles F., to Libbey-Owens-Ford Glass Company. Glass tank coolers. 3,459,413, 8-5-69, Cl. 263-44.

Bracken, Joseph W., Jr.; and Hubble, William S., to General Motors Corporation. Rotary regenerator matrix mount and drive. 3,476,173, 11-4-69, Cl. 165-9.

Bracken, Joseph W., Jr.; and Hubble, William S., to General Motors Corporation. Rotary regenerator. 3,482,622, 12-9-69, Cl. 165-9.

Bracken, Robert C.; and Lea, Eugene D., to Phillips Petroleum Company. Temperature control of a processing zone by sensing and averaging separate temperatures. 3,470,069, 9-30-69, Cl. 203-2.

Bracken, Robert C.; and Maddox, De Wayne, to Phillips Petroleum Company. Flash vaporization with flow stream controlled by liquid level. 3,444,052, 5-13-69, Cl. 203-1.

Bracken, Robert S., to Maul Bros., Inc. Glassware forming machine. 3,479,173, 11-18-69, Cl. 65-229.

Bracken, Ronald C.; Stroup, Ralph F.; and Wakefield, Gene F., to Texas Instruments, Incorporated Formation of carbide compounds by vapor. deposition on graphite bodies. 3,459,504, 8-5-69, Cl. 23-208.

Bracken, Ronald C.: *See—*
Haberecht, Rolf R.; Bracken, Ronald C.; and McCrary, James W.,3,436,306.

Bracker AG Metallwaren and Maschinenfabrik: *See—*
Friedrich, Karl, 3,440,850.

Brackett, Lawrenc W., Sr., to Wood Electric Corporation. Multipole circuit breaker with sliding contact actuator and swinging latch plate. 3,421,129, 1-7-69, Cl. 337-35.

Brackett, Lawrence W., Jr., to Wood Electric Corporation. Electrical circuit breaker. 3,454,918, 7-8-69, Cl. 337-75.

Brackett, Lawrence W., Sr., to Wood Electric Corporation. Electrical circuit breaker. 3,469,222, 9-23-69, Cl. 337-74.

Brackett, Robert D., to Polaroid Corporation. Photographic framing and exposure apparatus. 3,473,873, 10-21-69, Cl. 355-40.

Brackett, Robert D.: *See—*
Erikson, Herman E.; Brackett, Robert D.; and Young, Phillip E.,3,462,599.

Bracki, Kenneth A.: *See—*
Lansky, Zdenek J.; and Bracki, Kenneth A.,3,424,185.

Brackin, Wayne L., to Dresser Industries, Inc. Hook assembly. 3,434,696, 3-25-69, Cl. 254-192.

Brackney, Harry S.: *See—*
Hill, Richard N.; and Brackney, Harry S.,3,431,096.
Legal, Casimer C., Jr.; and Brackney, Harry S.,3,481,700.

Braco, Inc.: *See—*
Bucher, Foster L., 3,455,447.
Palmen, James J.; and Strandlund, John D., 3,429,438.

Bradbury, Bernard G. Spool container. 3,456,781, 7-22-69, Cl. 206-52.

Bradbury, Cyril Henry; and Freeland, William, to Simms Motor Units Limited. Starters for internal combustion engines. 3,447,523, 6-3-69, Cl. 123-179.

Bradbury, James G.: *See—*
Haulik, Leo J.; Bradbury, James G.; Greer, Leonard S.; and Decker, Clarence W.,3,428,339.

Bradbury, Wilburn F., to SCM Corporation. Printer with print hammer mounted on movable carriage. 3,429,414, 2-25-69, Cl. 197-82.

Braddy, John E.; and Wiens, Bradley E., to Owens-Illinois, Inc. Method for surface treatment of glass articles. 3,432,331, 3-11-69, Cl. 117-46.

Brade, James Neville, to Harrison, McGregor and Guest Limited. Mowing machines. 3,483,681, 12-16-69, Cl. 56-25.

Brade, James N., to Harrison, Mc Gregor and Guest Limited. Three point independently controlled mower frame mounting. 3,433,000, 3-18-69, Cl. 56-25.

Brade, James N., to Harrison, Mc Gregor and Guest Limited. Adjustable pitch break back type of reciprocating knife mower frame mount. 3,433,001, 3-18-69, Cl. 56-25.
Braden, William B., Jr., to Texaco Inc. Method of treating clay-containing formations with guanidine salt solution. 3,444,931, 5-20-69, Cl. 166-305.
Braden, William B.; and Carlin, Joseph T., to Texaco Inc. Treatment of clay-containing soil. 3,469,406, 9-30-69, Cl. 61-36.
Brader, Allen C. Dental Attachment with cooperating extension or socket. 3,464,114, 9-2-69, Cl. 32-14.
Brader, Walter H., Jr.: *See—*
Johnson, Fred L., Jr; and Brader, Walter H., Jr.,3,481,837.
Bradfield, William S., to General Communications Products, Inc. Apparatus for electrical components. 3,420,381, 1-7-69, Cl. 211-26.
Bradford, Carson. Mechanical computer and plot board. 3,436,015, 4-1-69, Cl. 235-86.
Bradford, Jack A., to FMC Corporation. Apparatus for drying fruit. 3,452,448, 7-1-69, Cl. 34-203.
Bradford, James N.: *See—*
Tucker, James W.; and Bradford, James N.,3,449,615.
Bradford, John G. Collapsible supporting structures. 3,426,367, 2-11-69, Cl. 5-82.
Bradford, Rex C.: *See—*
Barbeau, Raymond A.; Bradford, Rex C.; Fraim, Norman R.; and Lockett, Donald E.,3,449,756.
Bradford, Rex C.; and Braun, Richard E., to International Business Machines Corporation. Feedthrough elimination in magnetic transducers. 3,479,662, 11-18-69, Cl. 340-174.1
Bradford, Robert S., to Minnesota Mining and Manufacturing Company. Recording system. 3,423,524, 1-21-69, Cl. 178-6.7
Bradford, William E. Circular gang saw. 3,467,152, 9-16-69, Cl. 143-37.
Bradham, Allen C., III, to Texas Instruments, Incorporated. Circuit board and method of manufacture. 3,464,769, 9-2-69, Cl. 355-84.
Bradham, Allen C., III, to Texas Instruments, Incorporated. Universal circuit board and method of manufacture. 3,465,091, 9-2-69, Cl. 174-68.5
Bradlau, Albert A., to Textron, Inc., mesne. Machine for face-grinding bearing rings or the like. 3,461,621, 8-19-69, Cl. 51-134.
Bradley, Bartholomew M. Stair climbing wheelchair. 3,438,641, 4-15-69, Cl. 280-5.28
Bradley, Bruce R.; and Sims, James G., to Monsanto Company. Spinneret. 3,478,389, 11-18-69, Cl. 18-8.
Bradley, Bryant W., to Shell Oil Company. Selective formation plugging. 3,439,744, 4-22-69, Cl. 166-287.
Bradley, Bryant W., to National Lead Company, mesne. Environment simulator for oil well scale inhibitors. 3,470,735, 10-7-69, Cl. 73-61.2
Bradley, Claude G.; and Anderson, Nealie T., to Monsanto Company. Process of preparing acrylic polymer pigment dispersions. 3,471,433, 10-7-69, Cl. 260-32.6
Bradley, Curtis E., to Garrett Corporation, The. Cold engine start facilitating apparatus. 3,451,214, 6-24-69, Cl. 60-39.14
Bradley, Edward F., to Yeomans Brothers Company. Waste treatment system. 3,459,303, 8-5-69, Cl. 210-85.
Bradley, Edward Franklin, to International Business Machines Corporation. Electronic high speed strip record accessing control circuitry. 3,435,310, 3-25-69, Cl. 318-18.
Bradley, Edward Franklin; and Ferrier, Herman Anthony, Jr., to International Business Machines Corporation. Electronic high speed device incrementing control circuitry. 3,435,314, 3-25-69, Cl. 318-138.
Bradley, Elihu F.; Bartlett, Edwin S.; Ogden, Horace R.; and Jaffee, Robert I., to United Aircraft Corporation, mesne. Method of forming Ti-modified silicide coatings on Cb-base substrates and resulting articles. 3,442,720, 5-6-69, Cl. 148-6.3
Bradley, Eugene F.: *See—*
Woodham, Samuel R.; Bradley, Eugene F.; and Collins, John D.,3,442,684.
Bradley, Frank R. Compensation circuits for voltage dividers. 3,443,206, 5-6-69, Cl. 323-74.
Bradley, Frank R. Impedance measuring bridge with voltage divider providing constant source impedance to bridge. 3,443,215, 5-6-69, Cl. 324-57.
Bradley, Frank R. Voltage divider with constant source impedance stages. 3,478,259, 11-11-69, Cl. 323-43.5
Bradley, Frank R. Electromagnetic indicator. 3,482,126, 12-2-69, Cl. 310-49.
Bradley, G. & E., Limited: *See—*
Summers, Jack Philip, 3,474,455.
Bradley, Guy L. Baptistry for immersion. 3,469,265, 9-30-69, Cl. 4-1.
Bradley, James R., to Dow Chemical Company, The. Modifying water injection well profiles. 3,455,393, 7-15-69, Cl. 166-305.
Bradley, James; Bradshaw, Edward F.; and Foster, Jack A., to Burndy Corporation. Cable installation roller. 3,426,988, 2-11-69, Cl. 248-55.
Bradley, John J.: *See—*
Nystrand, Ernst Daniel; and Bradley, John J.,3,459,388.
Bradley, John S., to Pan American Petroleum Corporation. Apparatus for detecting hydrocarbon gas in sea water. 3,455,144, 7-15-69, Cl. 73-19.
Bradley, Kenneth B.: *See—*
Dietzler, Andrew J.; and Bradley, Kenneth B.,3,449,443.
Bradley, Mark E.; and Hinkein, Donald J., to International Business Machines Corporation. Corrected deflection circuit for cathode ray tube. 3,427,494, 2-11-69, Cl. 315-27.
Bradley, Milton, Company: *See—*
Foley, Charles F.; and Rabens, Neil W., 3,454,279.
Foley, Charles F.; and McCarthy, Charles D., 3,484,106.
Bradley, Robert W., to Powercon, Inc. Voltage responsive relay type quantizer for monitoring plural sources. 3,441,802, 4-29-69, Cl. 317-31.
Bradley, Roger W., to Burroughs Corporation. Punch check. 3,452,926, 7-1-69, Cl. 234-34.
Bradley, Theodore. Disposable examination gown. 3,451,062, 6-24-69, Cl. 2-114.
Bradley, William D.: *See—*
Whaley, Baynard R.; and Bradley, William D.,3,421,550.
Bradley, William R.: *See—*
Olinger, Eugene C.; Bradley, William R.; and Smith, John H.,3,431,314.
Bradley, Wilson E., Jr.: *See—*
Engalitcheff, John, Jr.; Faciu, Thomas F.; and Bradley, Wilson E., Jr.,3,437,319.
Engalitcheff, John, Jr.; Facius, Thomas F.; Bradley, Wilson E., Jr.; and Anderson, Axel F. L.,3,442,494.
Bradly, Malcolm Frederick. Steam trap. 3,478,961, 11-18-69, Cl. 236-54.
Bradshaw, Cristopher Patrick Cadman: *See—*
Howman, Eric James; Bradshaw, Cristopher Patrick Cadman; and Turner, Leonard,3,424,812.
Bradshaw, Edward F.: *See—*
Bradley, James; Bradshaw, Edward F.; and Foster, Jack A.,3,426,988.
Bradshaw, Jerald S., to Chevron Research Company. Photochemical process for the production of tricyclo-decene tetracarboxylic acid anhydride. 3,472,749, 10-14-69, Cl. 204-162.
Bradshaw, John L., to United States of America, Air Force. Electric coupling device. 3,466,588, 9-9-69, Cl. 339-5.
Bradshaw, Robert D.; and Jensen, Hans H., to International Business Machines Corporation. Electrographic data sensing system. 3,423,528, 1-21-69, Cl. 178-19.
Bradshaw, Thomas T., to Sani-Jon of America, Inc. Portable toilet. 3,430,269, 3-4-69, Cl. 4-144.
Bradshaw, Wright D. Deep fat fryer filtering system. 3,477,361, 11-11-69, Cl. 99-408.
Bradt, Gordon E. Chord-forming device for stringed instrument. 3,433,112, 3-18-69, Cl. 84-317.
Bradt, Gordon E., to Bell & Howell Company. Tape reel with releasable closure means. 3,467,339, 9-16-69, Cl. 242-55.13
Bradt, Lynn J., to S I Handling Systems, Inc. Tow truck dispatch system. 3,467,025, 9-16-69, Cl. 104-172.
Bradt, Lynn J., to S I Handling Systems, Inc. Tow truck system and truck therefor. 3,478,697, 11-18-69, Cl. 104-172.
Bradu, Georges; and Driffort, Jean-Pierre. Attachment of flat screen to bosses cast in envelope wall by frame having clips fastening to screen and ring retained in bosses. 3,440,469, 4-22-69, Cl. 313-89.
Brady, Arthur Richard, to Ultra Electronics Limited. Hollow tube thermocouple elements for a sonic pyrometer. 3,473,969, 10-21-69, Cl. 136-231.
Brady, Charles E.; and Nuss, Christopher, to Chrysler Corporation. Power steering flow control device. 3,426,785, 2-11-69, Cl. 137-117.
Brady, Edward R.: *See—*
Goosey, Malcolm H.; and Brady, Edward R.,3,469,254.
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C.,3,459,925.
Brady, Gerald A.: *See—*
Bernatz, Thomas H.; and Brady, Gerald A.,3,424,076.
Brady, John F.: *See—*
Bohn, Martin C.; Brady, John F.; Spinello, John O.; and Rice, Kenneth G.,3,433,341.
Brady, John Gary: *See—*
Szabo, Karoly; and Brady, John Gary,3,427,384.
Szabo, Karoly; and Brady, John Gary,3,457,283.
Szabo, Karoly; and Brady, John Gary,3,462,530.
Brady, John T. Exercising attachment. 3,424,133, 1-28-69, Cl. 119-29.
Brady, Laurence M.; and Lindgren, Milton F., to General Motors Corporation. Planetary gearing. 3,433,100, 3-18-69, Cl. 74-801.
Brady, Paul T., to Bell Telephone Laboratories, Incorporated. Speech pattern rearranging communication system. 3,422,232, 1-14-69, Cl. 179-170.8
Brady, Paul T., to Bell Telephone Laboratories, Incorporated. Speech level measuring device. 3,483,941, 12-16-69, Cl. 181-0.5
Brady, Peter. Portable radio receiver cabinet. 3,426,282, 2-4-69, Cl. 325-353.

Brady, Robert M.; Hawkey, Charles W.; and Kirby, John E., to Westinghouse Electric Corporation. Method of fabricating filament support loops. 3,442,302, 5-6-69, Cl. 140-71.5
Brady, W. H., Co.: *See*—
Gehweiler, Edward C.; and Daigle, Amerst, 3,453,660.
Koenitzer, Burton C., 3,459,623.
Tobey, Frederic Samuel, 3,427,524.
Tobey, Frederic Samuel; and White, Roby Byron, 3,484,614.
Braendlein, Robert K., to Marquardt Corporation, The. Compression limit control device for supersonic inlets. 3,450,141, 6-17-69, Cl. 137-15.2
Braese, William E. Sectional fish-pole carrier clips. 3,425,150, 2-4-69, Cl. 43-25.2
Braeuninger, Karl F.; and Glaza, Gordon K., to Dow Chemical Company, The. Structural panel with interlocking edges. 3,460,304, 8-12-69, Cl. 52-588.
Braeuninger, Karl F.; and Glaza, Gordon K., to Dow Chemical Company, The. Composite structural section. 3,477,350, 11-11-69, Cl. 94-13.
Braff, Joseph A.; and Fox, Richard L., to Allied Steel & Tractor Products, Inc. Vibratory compacter. 3,427,939, 2-18-69, Cl. 94-48.
Braga, Felix J., to Bell Telephone Laboratories, Incorporated. Active equalizer utilizing balanced differential amplifier. 3,466,561, 9-9-69, Cl. 330-30.
Bragaw, Chester G., Jr., to Du Pont de Nemours, E. I., and Company. Peripheral abrasive wheels with composite rims. 3,471,276, 10-7-69, Cl. 51-293.
Bragaw, Chester Griswold, Jr., to Du Pont de Nemours, E. I., and Company. Process for fixedly joining grinding wheel rim to grinding wheel core. 3,470,047, 9-30-69, Cl. 156-83.
Bragaw, Chester Griswold, Jr.; and Washburn, Robert Latham, to Du Pont de Nemours, E. I., and Company. Hydrodynamically centering sheath/core filament spinnerette. 3,458,615, 7-29-69, Cl. 264-171.
Bragg, Stephen Lawrence: *See*—
Pike, Malcolm Roy; and Bragg, Stephen Lawrence,3,483,881.
Bragga, Joseph, Jr., to Smith, Hinsdale, Jr., d/b/a/ Nikor Products Company. Labeling machine. 3,429,764, 2-25-69, Cl. 156-361.
Braginetz, Paul A., to Philip Morris Incorporated. Safety razor holder and display article. 3,444,990, 5-20-69, Cl. 206-45.14
Bragman, Clifford I. Thermal barrier of insulating material and metal frame elements. 3,445,974, 5-27-69, Cl. 52-309.
Brahm, Armin Wolfgang: *See*—
Marks, Alfred Finlay; and Brahm, Armin Wolfgang,3,439,071.
Brahm, Charles B., to United Aircraft Corporation. Leakage current elimination. 3,459,966, 8-5-69, Cl. 307-239.
Brahm, Charles B., to United Aircraft Corporation. Space-time sequence generator. 3,484,778, 12-16-69, Cl. 340-347.
Brahm, Charles B.; Corcoran, John M.; Glista, Edward M.; and Van Olinda, David L., to United Aircraft Corporation. Fuel control for a small gas turbine engine. 3,478,512, 11-18-69, Cl. 60-39.28
Brahm, Harry. Air pumping insert for shoes. 3,475,836, 11-4-69, Cl. 36-3.
Brahm, Richard: *See*—
Munder, Johannes; Scheler, Siegfried; and Brahm, Richard,3,459,550.
Braid, Milton; and Law, Derek A., to Mobil Oil Corporation. Organic compositions containing aminoquinones. 3,445,391, 5-20-69, Cl. 252-51.5
Braid, Milton: *See*—
Orkin, Bernard A.; and Braid, Milton,3,436,334.
Braid, Murray D.; and Detling, Miles W., to TRW Inc. Welding process and apparatus. 3,472,996, 10-14-69, Cl. 219-104.
Braikevitch, Michael; and Arthur, Bruce Donald, to English Electric Company Limited, The. Water turbines, pumps and reversible pump turbines. 3,422,275, 1-14-69, Cl. 290-52.
Braiman, Jerry: *See*—
Pearce, Godfrey R.; Sparrow, Lawrence R.; and Braiman, Jerry,3,474,300.
Sparrow, Lawrence R.; and Braiman, Jerry,3,436,610.
Braiman, Jerry, to Mallory, P. R., & Co., Inc. Molded capacitor having an integral mounting ear or ears. 3,458,645, 7-29-69, Cl. 174-52.
Braiman, Jerry; and Shieh, Edwin W., to Mallory, P. R., & Co., Inc. Capacitor having integral standoffs. 3,439,233, 4-15-69, Cl. 317-230.
Braiman, Jerry; and Shieh, Edwin W., to Mallory, P. R., & Co., Inc. Self-venting housing for capacitors. 3,439,234, 4-15-69, Cl. 317-230.
Brainard, David S.: *See*—
Wile, Daniel D.; Adachi, Shizuo R.; and Brainard, David S.,3,429,139.
Wile, Daniel D.; and Brainard, David S.,3,435,626.
Brainard, Edward C., II, to Braincon Corporation. Method and apparatus for underwater towing of seismic hydrophone arrays. 3,434,451, 3-25-69, Cl. 114-235.
Brainard, Edward C., II, to Braincon Corporation. Deep water tide recorder. 3,444,734, 5-20-69, Cl. 73-170.
Braincon Corporation: *See*—
Brainard, Edward C., II, 3,434,451.
Brainard, Edward C., II, 3,444,734.
Braithwaite, Bertrand G.: *See*—
Hixon, Philip E.; Fleisher, Marvin B.; and Braithwaite, Bertrand G.,3,472,143.
Braithwaite, Charles Henry, Jr., to Cal-Colonial Chemsolve. Phenol modified hydrocarbon resins and blends thereof with epoxy resin, polyurethane or polythiol. 3,420,915, 1-7-69, Cl. 260-837.
Braithwaite, Frederick T.: *See*—
Ricketts, Colin J.; Bodnar, Andrew J.; Braithwaite, Frederick T.; Johnson, Seward R.; and Wheeler, Ernest E.,3,484,549.
Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Hydrogenation of adiponitrile over alkali moderated ruthenium. 3,471,563, 10-7-69, Cl. 260-583.
Brake, William Robert: *See*—
Newberry, Samuel Alfred; and Brake, William Robert,3,437,301.
Brakewell, Raymond. Box containers and the like. 3,443,466, 5-13-69, Cl. 84-291.
Braley, Silas A., Jr.; and Helmer, Jerry D., to Dow Corning Corporation. Method for sterilization of males. 3,422,813, 1-21-69, Cl. 128-1.
Braman, Robert S.: *See*—
Bregman, Jacob I.; Anthes, David E.; and Braman, Robert S.,3,463,713.
Bramanti, Giancarlo; and Turbanti, Luigi. Choleretic nuclear-substituted phenyl-alkyl carbinols. 3,471,573, 10-7-69, Cl. 260-613.
Bramble, John H.: *See*—
Hair, Ronald A.; Hattrup, Gerald J.; and Bramble, John H.,3,421,925.
Bramblett, Ernest K., II; and Clapp, Richard W., to North American Rockwell Corporation. Quasi-absolute digital control system for winding filament on mandrel. 3,448,253, 6-3-69, Cl. 235-151.1
Brame, Frank H.; and Fisher, Charles B., to Boeing Company, The. Sectional articulated fuselage forebody for high-speed aircraft. 3,433,439, 3-18-69, Cl. 244-120.
Brames, Byron L. Warning device. 3,478,713, 11-18-69, Cl. 116-56.
Bramhall, John Michael, to Sheffield Twist Drill & Steel Co. Limited, The. Twist drill grinding machines. 3,456,392, 7-22-69, Cl. 51-101.
Bramhall, John Michael, to Sheffield Twist Drill & Steel Co. Limited, The. Machines for grinding twist drills. 3,481,084, 12-2-69, Cl. 51-91.
Bramhall, Otis H.; and Jess, Thurman S., to United-Carr Incorporated, mesne. Fuse actuator switch. 3,477,054, 11-4-69, Cl. 337-202.
Bramhall, William E.: *See*—
Slusser, Marion L.; and Bramhall, William E.,3,468,376.
Bramick, John O.; and Dreyer, Charles W., to Microlab. Microwave attenuator and method of making same. 3,464,037, 8-26-69, Cl. 333-81.
Bramlett Manufacturing Corporation: *See*—
Moran, Jack K., 3,472,570.
Bramlett, William P., Jr., to Armstrong Cork Company. Halloysite-filled phenolic molded composition. 3,467,618, 9-16-69, Cl. 260-38.
Bramlette, Jack C., 50% to Bramlette, Levi A. Vacuum bottle filling gauge. 3,451,371, 6-24-69, Cl. 116-118.
Bramlette, Levi A.: *See*—
Bramlette, Jack C., 3,451,371.
Bramley, Hal F.; Chiplis, Felix A.; Dunkle, David E.; and Taivalkoski, George W., to Amsted Industries Incorporated, mesne. High-velocity shearing machine. 3,452,572, 7-1-69, Cl. 72-275.
Brammer, Max. Box, e.g. for objects in gold, silver or porcelain. 3,439,799, 4-22-69, Cl. 206-75.
Brams, Stewart L.; Gage, Frederick W.; and Riege, Ronald L., to Whittaker Corporation, mesne. Adhesive composition of ethylene-propylene copolymers and terpolymers with carbon black particles. 3,445,318, 5-20-69, Cl. 161-46.
Bran & Lubbe: *See*—
Fuhrmann, Hans, 3,422,271.
Branagan, Edward F. Electronic circuit test board. 3,447,039, 5-27-69, Cl. 317-101.
Brancart, Claude P.: *See*—
Sheets, Herman E.; and Brancart, Claude P.,3,433,163.
Brancati, Mario J.: *See*—
Dickinson, Lloyd R.; and Brancati, Mario J.,3,422,487.
Brancato, Kenneth Y. Live-bait carrier. 3,477,165, 11-11-69, Cl. 43-55.
Brancato, Leo J., to Heli-Coil Corporation. Device for securing an artificial tooth to the bone structure of a human jaw. 3,435,526, 4-1-69, Cl. 32-10.
Branch, Chester W. Pickup truck bed mounted camper tent. 3,466,082, 9-9-69, Cl. 296-23.
Branch, Jack P.; and Durham, Noel O. Tone frequency noise filter. 3,451,502, 6-24-69, Cl. 181-23.
Branch, William C.: *See*—
Booth, Jack J.; and Branch, William C.,3,472,425.

Brand, Derek A.: *See—*
Giammarino, Joseph E.; and Brand, Derek A.,3,424,379.
Brand, Guenter; and Pfrommer, Gustav, to Bosch, Robert, G.m.b.H. Magneto flywheel ignition. 3,435,264, 3-25-69, Cl. 310-70.
Brand, Horace D.: *See—*
Wildi, Gerard C.; and Brand, Horace D.,3,463,202.
Brand, John R.; and Plunkett, Bradley J., to Warwick Electronics, Inc. Electrical musical instruments. 3,422,454, 1-14-69, Cl. 84-1.01
Brand, John R.; and Plunkett, Bradley J., to Warwick Electronics Inc. Key system for electrical musical instrument. 3,446,904, 5-27-69, Cl. 84-1.13
Brand, John R.; and Plunkett, Bradley J., to Warwick Electronics Inc. Electric organ circuit. 3,465,087, 9-2-69, Cl. 84-1.26
Brand, Karl, to Kugelfischer Georg Schafer & Co. Main pressure cylinder for hydraulic power transmission systems. 3,423,940, 1-28-69, Cl. 60-54.6
Brand, Walter A., Jr., to General Electric Company. Speed-measuring means with positon-detector, error- eliminating means. 3,436,656, 4-1-69, Cl. 324-70.
Brand, Warren H.: *See—*
Hetz, Heinz K.; Brand, Warren H.; and Dabinett, George B.,3,467,017.
Brandau, William, to Bendix Corporation, The. Sensor hysteresis compensating system. 3,477,294, 11-11-69, Cl. 73-386.
Brandell Products Corporation: *See—*
Kategian, Nick C., 3,469,334.
Brandell, Sol R., to American Hydrotherm Corporation. Multiple output electric heater apparatus. 3,443,065, 5-6-69, Cl. 219-515.
Brandenberg, Karl A., to Aro Corporation, The. Interval timer for pneumatic logic systems. 3,466,004, 9-9-69, Cl. 251-61.3
Brandenburg, John T.; Crone, John M., Jr.; and Suggitt, Robert M., to Texaco Inc. Disproportionation of alkyl aromatics with decationized mordenite containing a sulfided metal. 3,476,821, 11-4-69, Cl. 260-672.
Brander, Arthur: *See—*
Hennecke, Rudolf; Brander, Arthur; and Georgi, Eugen,3,465,599.
Brander, Richard, to Beltone Electronics Corporation. Electrical switching device using constricted fluid conducting path. 3,423,704, 1-21-69, Cl. 335-47.
Brandes, Roy H., to General Motors Corporation. Hot gas engine with gas pressure control means. 3,466,867, 9-16-69, Cl. 60-24.
Brandes, Roy H., to General Motors Corporation. Speed-acceleration governor with fluid coupled inertia means. 3,475,970, 11-4-69, Cl. 73-512.
Brandes, Roy H.: *See—*
Heffner, Francis E.; and Brandes, Roy H.,3,458,995.
Brandestini, Antonio. Method and apparatus for wrapping tensioned wire around vessels. 3,452,940, 7-1-69, Cl. 242-7.01
Brandhorst, Jack A. Towing device for water skis. 3,422,786, 1-21-69, Cl. 114-235.
Brandin, Charles I., Inc.: *See—*
Hanson, Rolf G.; and Hansen, David G., 3,456,388.
Brandle, Karl: *See—*
Zirngibl, Hans; Brandle, Karl; Beumer, Peter; and Weidmann, Walter,3,485,584.
Zirngibl, Hans; Gutsche, Walter; and Brandle, Karl,3,486,913.
Brandmayr, Ronald J., to United States of America, Army. Method of making a barium titanate body. 3,435,104, 3-25-69, Cl. 264-65.
Brandmayr, Ronald J., to United States of America, Army. Method of processing ferroclectric powders. 3,456,048, 7-15-69, Cl. 264-89.
Brandmayr, Ronald J.; and Di Vita, Sam, to United States of America, Army. Method of treating monolithic ceramic capacitors. 3,426,114, 2-4-69, Cl. 264-102.
Brandner, Carl F.: *See—*
Boston, William G.; Brandner, Carl F.; and Foster, William R.,3,470,956.
Dunlap, Peggy M.; Brandner, Carl F.; and Townsend, Harold L.,3,467,190.
Brandner, Carl F.; Dunlap, Peggy M.; Foster, William R.; and Hurd, Billy G., to Mobil Oil Corporation. Multistep method of waterflooding. 3,437,141, 4-8-69, Cl. 166-9.
Brandon, Charles S.: *See—*
Mayland, Bertrand J.; and Brandon, Charles S.,3,442,632.
Mayland, Bertrand J.; Trimarke, Carl Robert; Harvin, Richard L.; and Brandon, Charles S.,3,477,832.
Brandon, Clarence W., 12 1/2% to Brandon, Orpha B., 5% to Jacobson, Harvey B., 50% to Hardin, N. A., Newton, Catherine H., and Wright, Hazel H. Method of treating and producing fluids from reservoirs of variable permeability. 3,422,894, 1-21-69, Cl. 166-42.
Brandon, Clarence W., 12 1/2% to Brandon, Orpha B., and 50% to Harden, Nat A. Newton, Catherine H., and Wright, Hazel H. Method for forming and/or augmenting an energy wave. 3,438,352, 4-15-69, Cl. 116-137.
Brandon, Clarence W., 12 1/2% to Brandon, Orpha B. Method and apparatus for cooling and heating. 3,473,344, 10-21-69, Cl. 62-115.
Brandon, Ira M. Nut and bolt assembly. 3,439,722, 4-22-69, Cl. 151-14.
Brandon, John R. Front box plate. 3,464,455, 9-2-69, Cl. 139-183.
Brandon, John R. Front box plate for looms. 3,464,456, 9-2-69, Cl. 139-183.
Brandon, O. B.: *See—*
Tiner, Robert F.; and Brandon, O. B.,3,467,384.
Brandon, Orpha B.: *See—*
Brandon, Clarence W., 3,422,894.
Brandon, Clarence W., 3,438,352.
Brandon, Clarence W., 3,473,344.
Brandon, Richard L.: *See—*
Trecker, David J.; Henry, Joseph P.; and Brandon, Richard L.,3,453,197.
Brandon, Ronald E.; and Holman, Russell J., to General Electric Company. Steam turbine rotor cooling arrangement. 3,429,557, 2-25-69, Cl. 253-39.15
Brandon, Thomas A., Jr., to Bendix Corporation, The. Failure indicating apparatus for a split brake system. 3,427,582, 2-11-69, Cl. 340-52.
Brandon, Thomas A., Jr., to Chrysler Corporation. Regulating device. 3,430,439, 3-4-69, Cl. 60-54.5
Brandsma, Lambert: *See—*
Arens, Josef Ferdinand; and Brandsma, Lambert,3,422,151.
Brandstadter, Isaac Joseph, to Yissum Research Development Company. Analog spectrum accumulator. 3,480,932, 11-25-69, Cl. 340-174.1
Brandstrom, Arne Elof; and Carlsson, Stig Ake Ingemar, to Aktiebolaget Hassle. 2-Benzoyl-3-tertiaryamino alkoxy benzofuran derivatives. 3,485,835, 12-23-69, Cl. 260-247.7
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar, to Aktiebolaget Hassle. 1-(Ortho-alkenyl phenoxy)-2-hydroxy-3- isopropylaminopropanes and the salts thereof. 3,466,325, 9-9-69, Cl. 260-501.17
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar, to Aktiebolaget Hassle. Ortho, meta and para-alkenylphenoxy- hydroxyalkyl derivatives in the treatment of cardiac and vascular diseases. 3,466,376, 9-9-69, Cl. 424-330.
Brandt, Armand, to Aktiengesellschaft Brown, Boveri & Cie. Electrical converter circuit for supplying a load with variable frequency alternating current from an alternating current source of constant frequency. 3,435,321, 3-25-69, Cl. 321-7.
Brandt Automatic Cashier Co.: *See—*
Buchholz, Arnold R.; and Bergman, Charles T., 3,442,272.
Brandt, Bertil; and Svensson, Assar, to Skelleftea Gummifabriks A.-B. Lining plate for loading cage or similar device. 3,480,321, 11-25-69, Cl. 296-28.
Brandt, Bertil: *See—*
Svensson, Assar Natanael; and Brandt, Bertil,3,456,795.
Brandt, Carl E.: *See—*
Warsaw, Don K.; and Brandt, Carl E.,3,426,826.
Brandt, Edison R.; and Knight, Frank W., Jr., to Polaroid Corporation. Camera bellows. 3,421,425, 1-14-69, Cl. 95-39.
Brandt, Gunnar Walter, to LKB-Produkter AB. Centrifugal separator. 3,465,957, 9-9-69, Cl. 233-26.
Brandt, Hans-Ado, to Agfa-Gevaert Aktiengesellschaft. Film guiding and transporting mechanism for microfilm readers. 3,469,907, 9-30-69, Cl. 352-225.
Brandt, Herbert. Heating of stone for a rotary kiln. 3,477,702, 11-11-69, Cl. 263-32.
Brandt, Herbert. Wet-type dust precipitators. 3,481,115, 12-2-69, Cl. 55-233.
Brandt, Ivan L.: *See—*
Huette, Walter F.; Struger, Odo J.; and Brandt, Ivan L.,3,444,437.
Brandt, Karl: *See—*
Hess, Kurt; Meckbach, Heinrich; Brandt, Karl; and Wolz, Hermann,3,467,536.
Brandt, Nellie B. Stand for iron. 3,428,280, 2-18-69, Cl. 248-117.2
Brandt, Raymond A.; and Dickerson, Loren L., to United States of America, Army. Frequency doubler. 3,448,387, 6-3-69, Cl. 328-20.
Brandts, Theodorus G.: *See—*
Lichtenberger, Joseph A.; and Brandts, Theodorus G.,3,461,032.
Brandus, Liviu: *See—*
Popovici, Nicolae; Potop, Petre; and Brandus, Liviu,3,421,848.
Potop, Petre; and Brandus, Liviu,3,477,205.
Brandys, Edward L. Drafting instrument. 3,455,029, 7-15-69, Cl. 33-110.
Brane, Earl P., to Borgerud Mfg. Co., Inc. Venturi arrangement. 3,473,481, 10-21-69, Cl. 103-262.
Brane, Ralph M.: *See—*
Klauss, Howard C.; and Brane, Ralph M.,3,423,346.
Brane, Ralph M.; and Hart, Donald P., to PPG Industries, Inc. Electrodeposition of polycarboxylic acid resin and an organophilic cation modified clay. 3,483,109, 12-9-69, Cl. 204-181.
Yurcheshen, Michael; Levine, Morris; and Brane, Ralph M.,3,449,228.
Brangwin, Frank: *See—*
Newton, Archie; and Brangwin, Frank,3,446,853.

Branham, Donald R.; Selfe, Richard J.; and Hester, Ray W., Jr., to Crestwave Offshore Services, Inc. Cantilevered offshore structure. 3,477,235, 11-11-69, Cl. 61-46.5

Branick, Charles Earl, to Applied Power Industries, Inc. Tire cutting apparatus. 3,460,419, 8-12-69, Cl. 83-185.

Branigan, Alan E. J., to Bell & Howell Company. Motion picture camera having a rotating gyroscopically stabilized lens and a variable erection rate means. 3,424,523, 1-28-69, Cl. 352-243.

Brannen, Wiley W. Hydraulic brake adjuster. 3,464,526, 9-2-69, Cl. 188-152.

Brannland, Rolf Karl August: *See—*
Scholander, Axel Fredrik; and Brannland, Rolf Karl August,3,427,236.

Brannock, Kent C., to Eastman Kodak Company. Manufacture of 2,4-(1H,3H)-pyridinediones. 3,432,506, 3-11-69, Cl. 260-289.

Brannock, Kent C., to Eastman Kodak Company. Sulfone aldehydes. 3,475,494, 10-28-69, Cl. 260-601.

Brannock, Kent C., to Eastman Kodak Company. Tertiaryaminocyclobutanes with electronegative substituents. 3,481,936, 12-2-69, Cl. 260-293.

Brannock, Kent C., to Eastman Kodak Company. Tertiaryaminocyclobutanes with electronegative substituents. 3,481,939, 12-2-69, Cl. 260-293.4

Brannon, Edward O., to Racine Hydraulics, Inc. Selective priority flow control system. 3,456,560, 7-22-69, Cl. 91-412.

Brannon, Edward O., to Racine Hydraulics, Inc. Directional control valve. 3,472,261, 10-14-69, Cl. 137-102.

Brannon, Edward O.; and Petersen, Irving J., to Racine Hydraulics, Inc. Control valve. 3,480,039, 11-25-69, Cl. 137-596.2

Brannon, Hezzie R., Jr.: *See—*
Howell, Lynn G.; Brannon, Hezzie R., Jr.; and Barry, Adelbert,3,472,076.

Bransford, Ernest O., Jr., to Beaman Corporation. Overhang, structure and decorative fascia. 3,456,406, 7-22-69, Cl. 52-94.

Branson, Charles D., to Robertshaw Controls Company. Ignition means for burner means and the like. 3,459,172, 8-5-69, Cl. 126-39.

Branson, Charles D.; and Genbauffe, Francis S., to Robertshaw Controls Company. Ignition means for cooking apparatus and the like. 3,462,234, 8-19-69, Cl. 431-255.

Branson, Esther E.: *See—*
Branson, Henry E.,3,460,346.

Branson, Henry E., deceased0 (by Branson, Esther E.; executrix), to Stromberg Hydraulic Brake and Coupling Company. Multi-step hydraulic power mechanism. 3,460,346, 8-12-69, Cl. 60-54.5

Branson, Henry E., to Stromberg Hydraulic Brake and Coupling Company. Auxiliary control for a dual hydraulic brake system. 3,436,917, 4-8-69, Cl. 60-54.5

Branson Instruments, Incorporated: *See—*
Branson, Norman G., 3,429,743.
Branson, Norman G., 3,443,797.
Branson, Norman G., 3,472,063.
Brech, Kilian H., 3,485,087.
Brech, Kilian H., 3,486,368.
Erhardt, John E.; Hirtle, Kenneth S.; and Osterman, Harry F., 3,425,533.
Harris, Everett A.; and Jugler, John, 3,483,066.
Harris, Robert V., 3,435,664.
Hauser, Ray L., 3,480,492.
Horton, Robert C., 3,462,803.
Jacke, Stanley E., 3,421,939.
Krenke, Vincent Gerald, 3,487,237.
Obeda, Edward G., 3,440,118.
Obeda, Edward G., 3,468,731.
Shoh, Andrew, 3,432,691.
Shoh, Andrew, 3,441,875.
Shoh, Andrew, 3,443,130.
Shoh, Andrew; and Wilkens, Hans Joachim, 3,469,211.
Soloff, Robert S.; Jacke, Stanley E.; and Bloch, Peter K., 3,440,117.
Soloff, Robert S., 3,464,102.

Branson, Norman G., to Branson Instruments, Incorporated. Shock wave treatment method and apparatus. 3,429,743, 2-25-69, Cl. 134-1.

Branson, Norman G., to Branson Instruments, Incorporated. Instrument for measuring cavitation intensity in a liquid. 3,443,797, 5-13-69, Cl. 259-72.

Branson, Norman G., to Branson Instruments, Incorporated. Resonant sensing device. 3,472,063, 10-14-69, Cl. 73-67.1

Branson, Theodore A.: *See—*
Wille, Herbert S.; Branson, Theodore A.; and Matushek, John W.,3,437,055.

Brantley, Richard K., to Du Pont de Nemours, E. I., and Company. Method of controlling soil-borne nematodes and fungi with 1-aza-2-cycloalkenyl-2-chloro-1- carbonyl or 1-thiocarbonyl chlorides. 3,482,020, 12-2-69, Cl. 424-244.

Brantly, Jeff D.: *See—*
Shirley, William L.; Lee, Henry L.; and Brantly, Jeff D.,3,462,145.
Shirley, William L.; Lee, Henry L.; and Brantly, Jeff D.,3,472,511.

Branton, Donald L., to Sta-Rite Industries, Inc. Liquid transfer apparatus. 3,469,596, 9-30-69, Cl. 137-205.

Brany, Jaroslav; and Panek, Jiri, to Vyzkumny ustav strojirensko technologie a ekonomiky. Method and arrangement for checking deficiencies of shape of rotation bodies. 3,486,616, 12-30-69, Cl. 209-80.

Branyon, James Curtis; Harshbarger, Allen L.; and Martin, Maxie, to Reynolds Metals Company. Dispensing carton for web material and blanks for making same. 3,477,624, 11-11-69, Cl. 225-43.

Brasau, Norman: *See—*
Armstrong, John A.; and Brasau, Norman,3,445,167.

Brasch, Jay, to Esso Research and Engineering Company. Adducts of alkylene imines and carboxylic acids. 3,452,002, 6-24-69, Cl. 260-239.3

Brasco S.A.: *See—*
Asper, Jean-Jacques, 3,454,164.

Brasen, Daniel: *See—*
Barkow, William Henry; and Brasen, Daniel,3,447,853.

Brasen, Wallace Raymond; and Cleaver, Charles Spencer, to Du Pont de Nemours, E. I., and Company. Copolymers of tetrafluoroethylene and olefins curable to elastomers. 3,467,635, 9-16-69, Cl. 260-80.76

Brasen, Wallace R.: *See—*
Bechtold, Max F.; and Brasen, Wallace R.,3,429,846.

Brashier, Roy R.: *See—*
Rushing, Karl; and Allen, John Clarence, Jr., 3,468,379.

Brasier, Charles A.: *See—*
Childers, Thomas W.; Genois, Edmond R.; and Brasier, Charles A.,3,464,495.

Brasier, Robert E., to Boeing Company, The. Optical normalizer. 3,435,532, 4-1-69, Cl. 33-185.

Brasier, Robert E., to Boeing Company, The. Three directional optical alignment instrument. 3,446,560, 5-27-69, Cl. 356-146.

Braskamp, Willem Hendrik, to Indoheem N.V. Hair clamp. 3,428,057, 2-18-69, Cl. 132-36.

Braslau, Norman, to International Business Machines Corporation. Semiconductor bulk effect microwave oscillator. 3,435,303, 3-25-69, Cl. 317-234.

Brassell, Clarence Morgan: *See—*
Murchison, John R.; Darnall, John C.; and Brassell, Clarence Morgan,3,429,239.

Brasseur, Jacques Marc, to Societe Anonyme des Automobiles Simca. Automobile door internal handle assembly. 3,433,519, 3-18-69, Cl. 292-336.3

Brasseur, Jacques, to Societe Anonyme des Automobiles Simca. Locking sliding door. 3,433,036, 3-18-69, Cl. 70-99.

Brasseur, Jacques, to Societe Anonyme des Autombiles Simca. Torsion bar adjusting device. 3,476,375, 11-4-69, Cl. 267-57.

Brasseur, Roger N. Container lifting device. 3,429,606, 2-25-69, Cl. 294-26.

Brastad, William A., to General Mills, Inc. Marking device. 3,459,483, 8-5-69, Cl. 401-131.

Brastins, Auseklis; and Willard, Frank G., to Westinghouse Electric Corporation. Binary adder circuit using denial logic. 3,454,751, 7-8-69, Cl. 235-176.

Brastins, Auseklis: *See—*
Vercellotti, Leonard C.; and Brastins, Auseklis,3,440,628.

Brastow, Edgar R.: *See—*
Amsler, Clyde R.; Brastow, Edgar R.; and Little, Ronald F.,3,446,080.

Brastow, Edgar R.; Bjordahl, James; and Little, Ronald F., to Clary Corporation. Gyroscope. 3,434,355, 3-25-69, Cl. 74-5.12

Brastow, Edgar R.; Voge, Andrew; and Schaberg, Richard R., to Clary Corporation. Rate gyroscope. 3,434,353, 3-25-69, Cl. 74-5.6

Brasure, Donald Eugene, to Du Pont de Nemours, E. I., and Company. Method of thermoplastic film manufacture. 3,475,248, 10-28-69, Cl. 156-229.

Braswell, Herman W. Device for cleaning window surfaces. 3,455,638, 7-15-69, Cl. 401-23.

Bratingham, Charles R.; Beekman, Bruce E.; and Eames, Loren W. Stress reducing floor surface. 3,434,715, 3-25-69, Cl. 272-57.

Bratkowski, Yaroslau R., to Freen, A., Limited. Rear projection screen. 3,463,569, 8-26-69, Cl. 350-129.

Bratland, Arthur. Sterilisation of milk products. 3,467,531, 9-16-69, Cl. 99-212.

Bratland, Arthur. Process for the production of whipped cream. 3,468,671, 9-23-69, Cl. 99-60.

Bratt, Sven Ake, to Atlas Copco Aktiebolag. Torque release means for rotary pneumatic tools. 3,473,439, 10-21-69, Cl. 91-59.

Bratten, Thomas A., to General Motors Corporation. Inertia sensing proportioner. 3,455,609, 7-15-69, Cl. 303-24.

Bratten, Thomas A.; and Naismith, Thomas D., to General Motors Corporation. Inertia sensing proportioner. 3,476,443, 11-4-69, Cl. 303-24.

Bratti, Ronald P. Grout applying machine. 3,452,381, 7-1-69, Cl. 15-98.

Bratton, Francis H.; and Fick, Herbert J., to Schjeldahl, G. T., Company. Annealing of metal-plastic laminates. 3,452,133, 6-24-69, Cl. 264-346.

Bratton, Francis H.; Fick, Herbert J.; and Klimisch, Kenneth W., to Schjeldahl, G. T., Company. Method of bonding polyimide films. 3,449,193, 610-69, Cl. 156-322.
Bratton, Francis H.: *See—*
Slater, Richard J.; and Bratton, Francis H.,3,452,355.
Bratton, Wilson T.: *See—*
Boretti, Napoleon P.; Bratton, Wilson T.; and Tolstyka, Joseph R.,3,477,870.
Brauch, Harold N.: *See—*
Beck, George P.; and Brauch, Harold N.,3,452,311.
Brauchla, Herbert C., 1/2 to Guernsey, J. D. Apparatus for air driving of strip screws. 3,421,557, 1-14-69, Cl. 144-32.
Braucht, Theodore C., to D & W Rankin Manufacturing Company. Welding apparatus. 3,483,353, 12-9-69, Cl. 219-125.
Braucksiek, Henry C.: *See—*
Jackson, Wilbur F.; and Braucksiek, Henry C.,3,467,893.
Jackson, Wilbur F.; and Braucksiek, Henry C.,3,474,388.
Braude, George L.; and Lard, Edwin W., to Grace, W. R., & Co. Fabric coated with binder and pulverulent molecular sieve and process of making same. 3,431,133, 3-4-69, Cl. 117-24.
Braudeau, Pierre; and Maillet, Alfred M. A., to La Soudure Electrique Languepin. Apparatus for electrically treating workpieces with electrodes. 3,433,919, 3-18-69, Cl. 219-69.
Brauer, Edwin H., to Cyril Bath Company, The. Stretch leveling machine. 3,448,603, 6-10-69, Cl. 72-296.
Brauer, Edwin H.; and Huggett, T. Virgil, to Cyril Bath Company, The. Stretch forming machine and segmental adjustable die combination. 3,426,569, 2-11-69, Cl. 72-295.
Brauer, Horst; Fenner, Erich; and Kuschke, Renate, to Siemens Aktiengesellschaft. Ceramic bodies of ferroelectric material with perovskite structure which is partially p-conduct- ing and partially n-conducting. 3,441,517, 4-29-69, Cl. 252-520.
Brauer, Lothar W., to Auergesellschaft G.m.b.H. Colorimetric indicator. 3,467,601, 9-16-69, Cl. 252-408.
Braught, John D., to United States Steel Corporation. Receptacle of molded plastic material. 3,450,302, 6-17-69, Cl. 220-60.
Braukhoff, Ronald E., to Warner Electric Brake & Clutch Company. Disk brake with button-type shoes and air cooling. 3,444,966, 5-20-69, Cl. 188-264.
Brault, Andre R., to OPTOmechanisms, Inc. Layout machine with encoder means. 3,438,133, 4-15-69, Cl. 33-1.
Brault, Andre R., to OPTOmechanisms, Inc. Film viewer coordinate measuring means. 3,455,026, 7-15-69, Cl. 33-1.
Brault, Andre R.; and White, Robert E., to OPTOmechanisms, Inc. Traveling projection light viewer means. 3,421,813, 1-14-69, Cl. 353-22.
Braun Aktiengesellschaft: *See—*
Anna, Otto Konrad, 3,421,216.
Anna, Otto Konrad, 3,464,110.
Cobarg, Claus Christian, 3,442,197.
Hasselbach, Wolfgang, 3,449,975.
Heim, Heinz, 3,485,332.
Messinger, Werner; and Wich, Robert, 3,440,725.
Messinger, Werner, 3,468,025.
Michaelis, Manfred, 3,465,800.
Michaelis, Manfred, 3,477,489.
Schindler, Hans, 3,458,765.
Wich, Robert; and Messinger, Werner, 3,440,724.
Wosylus, Klaus Dieter, 3,449,636.
Braun, Arthur R. Plural part molding. 3,443,005, 5-6-69, Cl. 264-245.
Braun, Arthur R. Upside-downside aerosol dispensing valve. 3,447,551, 6-3-69, Cl. 137-43.
Braun, C. F., & Company: *See—*
Grotz, Bernard J., Jr., 3,442,613.
Braun, Daniel E., to Briggs & Stratton Corporation. Extended oil filler tube. 3,474,884, 10-28-69, Cl. 184-1.
Braun, Edwin C., Jr., to Aerojet-General Corporation. Towline cart switching device. 3,426,701, 2-11-69, Cl. 104-172.
Braun, Ernst; and Braun, Gert, to Halbach & Braun, Maschinenfabrik. Coal-cutting tool. 3,431,024, 3-4-69, Cl. 299-34.
Braun, Eugene R.: *See—*
Heyberger, Werner; and Braun, Eugene R.,3,433,331.
Braun, Eugene R., to Eaton Yale & Towne Inc. Hoist overload preventing device. 3,433,332, 3-18-69, Cl. 188-134.
Braun, G. A.: *See—*
McCabe, Logan D., 3,464,131.
Braun, Gert: *See—*
Braun, Ernst; and Braun, Gert,3,431,024.
Braun, Gilles G. Heater stand and cavity injector. 3,466,752, 9-16-69, Cl. 32-60.
Braun, Gunther: *See—*
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann,3,428,577.
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann,3,428,578.
Braun, Herbert D., to Reliance Electric and Engineering Company, The, mesne. Mixer-chopper. 3,450,180, 6-17-69, Cl. 146-182.
Braun, Herbert: *See—*
Ruprecht, Robert; Heydlauf, Kurt; and Braun, Herbert,3,434,363.
Braun, Howard E.: *See—*
Desmarchais, Walter E.; and Braun, Howard E.,3,445,971.
Braun, John A., to Texas Instruments, Incorporated. Self-centering electrical switch. 3,439,138, 4-15-69, Cl. 200-67.
Braun, John A.: *See—*
Sanford, Carlton E.; and Braun, John A.,3,454,733.
Braun, Josef, to Aktiebolaget Atomenergi. Method and apparatus for magneto- hydrodynamic electric power generation. 3,440,457, 4-22-69, Cl. 310-11.
Braun, Karlheinz, to Eisenbau Albert Ziefle K.G. Electrically insulating coupling for pipes and the like. 3,432,186, 3-11-69, Cl. 285-53.
Braun, Morris; and Spransy, George B., to Braun, W., Company. Means for effectively sealing a bottle or container. 3,425,579, 2-4-69, Cl. 215-40.
Braun, Oskar; Gross, Richard; and Nakaten, Herbert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Aqueous solutions of phthalocyanine pigments and process for preparing them. 3,446,569, 5-27-69, Cl. 8-84.
Braun, Philip N.; and Meier, Fredrice, to Tag-O-Matic Machine Co., Inc. Apparatus for marking and classifying articles of laundry. 3,448,869, 6-10-69, Cl. 214-11.
Braun, Reinhold; and Puteick, Johann J., to International Standard Electric Corporation. Arrangement for selective testing of search wires. 3,482,053, 12-2-69, Cl. 179-18.
Braun, Richard E.: *See—*
Bradford, Rex C.; and Braun, Richard E.,3,479,662.
Braun, Richard E., to International Business Machines Corporation. Apparatus and method for magnetic recording. 3,438,018, 4-8-69, Cl. 340-174.1
Braun, Richard E.; Tiao, Hui-li; and Verdibello, Ambrose A., to International Business Machines Corporation. Method of manufacturing magnetic transducers. 3,486,220, 12-30-69, Cl. 29-603.
Braun, Robert A., to Du Pont de Nemours, E. I., and Company. Hexasubstituted-2-sila-1,3-dioxolanes. 3,433,819, 3-18-69, Cl. 260-448.8
Braun, Robert A., to Du Pont de Nemours, E. I., and Company. 2,2,5,5-Tetraperhaloalkyl-4,4-dialkoxy substituted-1,3-dioxolane. 3,467,674, 9-16-69, Cl. 260-340.9
Braun, Robert A., to Du Pont de Nemours, E. I., and Company. Perhalo containing air-drying monomers. 3,476,771, 11-4-69, Cl. 260-340.7
Braun, Roland J., to International Business Machines Corporation. Automatic gain control circuit for optical senser. 3,461,300, 8-12-69, Cl. 250-214.
Braun, Rudolph A., to Clevite Corporation. Apparatus for depositing molten metal on a moving metal strip. 3,452,807, 7-1-69, Cl. 164-275.
Braun, Vlastimil, to Chepos, Zavody chemickeho a potravinarskeho strojirenstvi oborovy podnik. Bubble cap assemblies for bubble towers. 3,427,007, 2-11-69, Cl. 261-114.
Braun, Vlastimil; and Vitek, Oto, to Chepos, Zavody chemickeho a potravinarskeho strojirenstvi oborovy podnik. Slotted tray for fractionating column and the like. 3,445,095, 5-20-69, Cl. 261-114.
Braun, W., Company: *See—*
Braun, Morris; and Spransy, George B., 3,425,579.
Friedberg, Arthur A., 3,462,034.
Lerner, Nathan B., 3,474,930.
Braun, Wilhelm Friedrich. Process for the synthetic production of ammonia. 3,420,630, 1-7-69, Cl. 23-198.
Braun, Willy; and Anton, Ernst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Anthra [1,2-c] pyrazole derivative. 3,428,647, 2-18-69, Cl. 260-312.
Braun, Willy; and Bachmann, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft Ludwigshafen. Alpha-anthraquinonylaminobenzoylpropionic acid and esters. 3,442,914, 5-6-69, Cl. 260-376.
Braun, Willy; and Mecke, Rolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Heterocyclic-nitrogen anthraquinone monoazo dyes. 3,483,179, 12-9-69, Cl. 260-154.
Braun, Willy; and Paetzke, Ingo, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Anthraquinone azo barbituric acid derivative dyes. 3,428,620, 2-18-69, Cl. 260-154.
Braun, Wolfgang: *See—*
Luge, Karlheinz E.; and Braun, Wolfgang,3,477,203.
Braund, Reed J.; and Weinberg, Seymour B., to Bell Telephone Laboratories, Incorporated. Potential sensing PBX class-of-service selector circuit. 3,441,679, 4-29-69, Cl. 179-18.
Brauner, Shlomo. Process of making moulded compositions particularly for footwear. 3,445,874, 5-27-69, Cl. 12-146.
Braunhut, Harold N. Adjustable polarizing eyeglasses. 3,423,149, 1-21-69, Cl. 351-49.
Braunisch, Herbert; Lenhart, Helga; and Seifried, Walter, to Kalle Aktiengesellschaft. Manufacture of polyethylene terephthalate laminates. 3,434,916, 3-25-69, Cl. 161-231.
Brauns, Kenneth V., to Armour and Company. Multi-edge rotary blade. 3,468,356, 9-23-69, Cl. 146-95.

Braunschweigische Maschinenbauanstalt: *See*—
Hillebrand, Heinrich, 3,428,182.
Kaether, Willy; and Dietzel, Walter, 3,475,214.
von der Linde, Hans-Jurgen; and Haberich, Wilhelm, 3,481,783.

Braunschweigische Mashinenbauanstalt: *See*—
Haberich, Wilhelm; and Felber, Erhard Hermann Gustav, 3,462,299.

Braunstein, Morris: *See*—
Zuleeg, Rainer; and Braunstein, Morris,3,454,847.

Braus, Harry; Hager, Jerome E.; and Hill, Lester A., Jr., to National Distillers and Chemical Corporation. Stabilizing composition for olefin polymers containing a hydrocarbon-mercapto-hydrocarbon phosphite, carbon black, and a hindered henol. 3,462,375, 8-19-69, Cl. 252-400.

Braus, Harry; Hager, Jerome E.; and Hill, Lestera A., Jr., to National Distillers and Chemical Corporation. Enhancement of resistance of olefin polymers to heat deterioration. 3,480,581, 11-25-69, Cl. 260-41.

Brauser, Stanley O.: *See*—
Hughes, William L.; and Brauser, Stanley O.,3,459,953.

Brautigam, John J.: *See*—
Matthysse, Irving F.; Raila, Edward S.; Osborn, William G.; and Brautigam, John J.,3,427,549.

Brav, Milton: *See*—
Mackie, Charles G.; and Rahr, Gordon J., 3,438,577.

Bravenec, Frank Richard, to Bausch & Lomb Incorporated. Recorder with cover mounted web tensioning means. 3,460,158, 8-5-69, Cl. 346-136.

Bravo, Justo B.; and Dimeler, Glenn R., to Sun Oil Company. Noble metal aluminum alloys as catalysts for fuel cell electrodes. 3,428,490, 2-18-69, Cl. 136-86.

Brawley Steel Co.: *See*—
Arnold, Ray E., 3,430,478.

Brawner, Frederick A.; and Smith, Lawrence H., to Radke, Lee, Associates, Inc. Remote control apparatus. 3,442,150, 5-6-69, Cl. 74-501.

Brawner, Frederick A.; Smith, Lawrence H.; and Pringle, William L., to Radke, Lee, Associates, Inc. Remote control apparatus. 3,442,151, 5-6-69, Cl. 74-501.

Braxton, Henry G., Jr.; and Filbey, Allen H., to Ethyl Corporation. Hydrocarbon fuel or tetraalkyl lead fluid containing an exhaust emission reducing bisphenol. 3,484,218, 12-16-69, Cl. 44-69.

Braxton, Henry G., Jr.; and Lajiness, Evelyn J., to Ethyl Corporation. Halovinyl mercurials as plant defoliants. 3,433,621, 3-18-69, Cl. 71-70.

Braxton, James L.: *See*—
Gehring, Arthur J.; Gardner, Henry J.; Braxton, James L.; and Crellin, Edwin W.,3,465,866.

Bray, Ben G.; and Kozlowski, Robert H., to Chevron Research Company. Middle distillate hydrogen treating process. 3,420,768, 1-7-69, Cl. 208-58.

Bray, Chester W., to United States of America, Army, mesne. Low-distortion gain and phase-stable power amplifier. 3,460,051, 8-5-69, Cl. 330-124.

Bray, Ellis E.; and Zimmerman, John R., to Mobil Oil Corporation. Geochemical exploration. 3,446,597, 5-27-69, Cl. 23-230.

Bray, Frederick W., Jr., to Nordberg Manufacturing Company. Vibrating mechanism. 3,486,387, 12-30-69, Cl. 74-61.

Bray, Geo., & Company Limited: *See*—
Hancock, John; and Westerman, Albert, 3,439,877.
Hancock, John; and Westerman, Albert, 3,439,997.
Hancock, John, 3,467,316.

Bray, Horace D., to Lowenstein, M., & Sons, Inc. Apparatus for stretching fabric. 3,474,509, 10-28-69, Cl. 26-51.

Bray, James A.: *See*—
Smith, John R.; and Bray, James A.,3,475,295.
Smith, John R.; and Bray, James A.,3,479,256.

Bray, Lane A.: *See*—
Ritter, Gerald L.; and Bray, Lane A.,3,463,619.

Bray Oil Company: *See*—
Bray, Ulric B.; and Fainman, Morton Z., 3,478,113.

Bray, Ralph: *See*—
Frank, Edward; and Bray, Ralph,3,431,787.

Bray, Robert S.; Lozano, Luis J.; and Kabelka, Peter J., to Anaconda American Company. Edge contouring of metal strip and metal strip product. 3,469,430, 9-30-69, Cl. 72-200.

Bray, Russell S.; and Hauser, Frederick L. Impregnation device for locating the site of internal bleeding. 3,421,499, 1-14-69, Cl. 128-2.

Bray, Sidney Crockett. Food turner and grill cleaner kit combination. 3,434,175, 3-25-69, Cl. 15-105.

Bray, Stewart V., to Ford Motor Company. Spark plug. 3,451,110, 6-24-69, Cl. 29-25.12

Bray, Thoma L.: *See*—
Cofer, Daniel B.; Ward, George C.; Proctor, Dale D.; and Bray, Thoma L.,3,454,077.

Bray, Thomas E.: *See*—
Barrett, John R.; Bray, Thomas E.; and Claflin, Gerald E.,3,486,029.

Bray, Thomas E.; and Clusick, Robert E., to General Electric Company. Solid state light emitting display with memory. 3,479,517, 11-18-69, Cl. 250-213.

Bray, Thomas L.: *See*—
Cofer, Daniel B.; and Bray, Thomas L.,3,464,483.
Cofer, Daniel B.; Ward, George C.; and Bray, Thomas L.,3,478,813.

Bray, Thomas L., to Southwire Company. Casting machine with removable casting ring. 3,464,484, 9-2-69, Cl. 164-278.

Bray, Ulric B.; and Fainman, Morton Z., to Bray Oil Company. Hydrocarbon hydraulic oil. 3,478,113, 11-11-69, Cl. 260-671.

Bray, William E.: *See*—
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr.,3,423,677.

Bray, William E., to Texas Instruments, Incorporated. Digital synchronization system. 3,440,609, 4-22-69, Cl. 340-172.5

Bray, William E., to Texas Instruments, Incorporated. High frequency binary memory and logic circuit. 3,441,914, 4-29-69, Cl. 340-173.

Bray, William R. Two phase heat exchanger. 3,482,625, 12-9-69, Cl. 165-106.

Braye, Emile H., to Union Carbide Corporation. Phenothiaphosphines. 3,449,426, 6-10-69, Cl. 260-570.5

Braye, Emile H.: *See*—
Hubel, Karl W.; and Braye, Emile H.,3,426,052.

Brazel, Rudolf: *See*—
Ritz, Ernst; and Brazel, Rudolf,3,476,106.

Brazell, James W.; Perkins, James T., Jr.; and White, Edwin L., to Southern Iron and Equipment Company, Inc. Gantry cranes. 3,433,366, 3-18-69, Cl. 212-14.

Brazener, Harry M.; and Newman, Robert W., to Inventions, Inc., mesne. Method and apparatus for use in making honeycomb cores. 3,477,893, 11-11-69, Cl. 156-197.

Breacker, Edward A., to Societe d'Etudes de Machines Speciales. Automatic rewinding apparatus. 3,460,773, 8-12-69, Cl. 242-56.6

Breacker, Edward A.; and Armelin, Edouard R., to Societe d'Etudes de Machines Speciales. Rewinding machines. 3,443,769, 5-13-69, Cl. 242-56.

Breacker, Edward Albert; and Armelin, Edouard, to Societe d'Etudes de Machines Speciales. Rewinding machines. 3,421,709, 1-14-69, Cl. 242-64.

Breacker, Edward Albert; and Armelin, Edouard R., to Societe d'Etudes de Machines Speciales. Automatic tote rewind. 3,430,880, 3-4-69, Cl. 242-56.

Breakfield, Joseph W.: *See*—
Crimmins, David J.; and Breakfield, Joseph W.,3,465,432.

Brealey, Graham John, to Courtaulds Limited. Production of polyacrylonitrile fibres. 3,431,244, 3-4-69, Cl. 260-78.5

Breant, Claude; Linares, Hubert; and Seibold, Gerard, to Rhone-Poulenc S.A. Novel hydroxyaryl tetrephthalamates. 3,487,099, 12-30-69, Cl. 260-471.

Brearley Company, The: *See*—
Provi, Mike A., 3,426,861.
Provi, Mike A.; and Guinter, S Robert, 3,460,642.
Provi, Mike A.; Stinson, George E.; and Lang, Lawrence V., 3,469,645.
Provi, Mike A.; and Guinter, S. Robert, 3,478,618.

Breas, Cornelia: *See*—
Van Burleigh, Johannes Balfour; and Breas, Cornelia,3,466,359.

Breault, Richard D.: *See*—
Siebenberg, Henry N.; and Breault, Richard D.,3,481,737.

Breaux, Onezime Philip. Homopolar generator having parallel positioned faraday disk structures. 3,465,187, 9-2-69, Cl. 310-178.

Breazeale, Francis B.: *See*—
Bowers, Virginia S.; Breazeale, Francis B.; and Rice, Charles M.,3,435,607.

Brebant, Charles; Labet, Jacques; and Mosse, Pierre, to Commissariat a l'Energie Atomique. Stereoscopic telescope for the remote viewing of objects placed in a sealed examination cave. 3,485,548, 12-23-69, Cl. 350-36.

Brebner, James: *See*—
Gabbitus, Derek; Stephens, Allan; Brebner, James; and Lee, Anthony Michael,3,430,427.

Brebner, John Low: *See*—
Mooser, Emanuel; and Brebner, John Low,3,443,141.

Brech, Kilian H., to Branson Instruments, Incorporated. Ultrasonic inspection apparatus. 3,485,087, 12-23-69, Cl. 73-67.7

Brech, Kilian H., to Branson Instruments, Incorporated. Ultrasonic inspection apparatus. 3,486,368, 12-30-69, Cl. 73-67.9

Brecher, Charles; Lempicki, Alexander; and Samelson, Harold, to General Telephone & Electronics Laboratories, Incorporated. Optical maser solution comprising a compound of europium tetrakis benxoyltrifluoroacetonate and piperidinium. 3,454,901, 7-8-69, Cl. 331-94.5

Brecher, Lee E.: *See*—
Putnam, Richard E.; Brecher, Lee E.; Archer, Dave H.; and Zahradnik, Ray L.,3,437,325.

Brechna, Habib, to United States of America, Atomic Energy Commission. Radiation resistant insulation. 3,427,189, 2-11-69, Cl. 117-126.
Brechner, Stanley; Malakoff, Meyer; and Rieger, Martin M., to Warner-Lambert Pharmaceutical Company. Two phase fast breaking foam pressurized hair waving composition. 3,433,868, 3-18-69, Cl. 424-47.
Brecknell, Dolman: *See—*
Dolman, Henry J., 3,463,171.
Breckoff, Walter E.; and McEuen, John M., to Ethyl Corporation. Preparation of a β-olefin from a straight chain terminal olefin with metallic molybdenum catalyst. 3,424,813, 1-28-69, Cl. 260-683.2
Breckwoldt, Gerhard H., to St. Louis University. Laryngoscopic manikin. 3,471,944, 10-14-69, Cl. 35-17.
Bred, Leo: *See—*
Preaux, Lucien; and Bred, Leo,3,421,968.
Brede, Ernst, to Continental Elektroindustrie A.G. Apparatus for measuring terrestrial gravity from a moving vehicle. 3,477,293, 11-11-69, Cl. 73-382.
Brede, Ernst; Schulze, Reinhard; and Thebis, Eberhard, to Continental Elektroindustrie A.G. Gravimeter. 3,486,379, 12-30-69, Cl. 73-382.
Brediger, James L.; Day, William B.; Lavedan, Louis J., Jr.; and Parks, Joe K., to Sperry Rand Corporation. Microwave transition apparatus. 3,431,515, 3-4-69, Cl. 333-21.
Bredt, James H.: *See—*
Kendall, Louis F., Jr.; and Bredt, James H.,3,480,554.
Bredvik, Martin, to Boeing Company, The. Adjustable toggle clamp. 3,425,098, 2-4-69, Cl. 24-68.
Breed, Arie Eugene; and Billhymer, Robert Franklin, to Deere & Company. Wheel rake. 3,484,803, 12-16-69, Cl. 56-377.
Breed, Arthur R., to Lamson & Sessions Co., The. Thread forming fastener. 3,481,380, 12-2-69, Cl. 151-22.
Breed, David S. Dashpot timer having a coated piston. 3,458,991, 8-5-69, Cl. 58-144.
Breed, David S. Dashpot timer having a coated metallic piston. 3,458,992, 8-5-69, Cl. 58-144.
Breed, Laurence W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,444,127.
Breeden, Robert L.; and Rickert, Richard M., to Bell Telephone Laboratories, Incorporated. Multifrequency signal generator for tone- dialed telephones. 3,424,870, 1-28-69, Cl. 179-84.
Breedlove, William W.; and Fabry, Joseph W., Jr. Golf bag stands. 3,432,130, 3-11-69, Cl. 248-96.
Breen, Alvin L.; and Lauterbach, Herbert G., to Du Pont de Nemours, E. I., and Company. Process for treating a filamentary strand. 3,421,194, 1-14-69, Cl. 28-72.
Breen, Dale H.: *See—*
Geiger, Eugene J.; and Breen, Dale H.,3,475,804.
Breen, Henry D.: *See—*
Bezlaj, Frank A.; McLaughlin, Gerald R.; Loomis, Russell M.; and Breen, Henry D.,3,486,468.
Breen, Henry D.; and Loomis, Russell M., to Unarco Industries, Inc. Lading supporting and separating means. 3,431,015, 3-4-69, Cl. 296-24.
Loomis, Russell M.; and Breen, Henry D.,3,477,392.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D.,3,422,773.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D.,3,478,700.
Breen, Stanley: *See—*
Benson, Warren E., Jr.; Breen, Stanley; and Monaghan, Ralph,3,465,243.
Breen, Stanley; and Benson, Warren E., Jr., to Kingsbury Technology, Inc., mesne. Capacitor test cell apparatus including error-reducing coupling cables. 3,450,988, 6-17-69, Cl. 324-61.
Breese, Lemuel R., to Radiation Incorporated. Supervisory control system combining scanning and direct selection modes of operation. 3,444,521, 5-13-69, Cl. 340-163.
Breetvelt, Emile. Shearing machine for plates. 3,424,045, 1-28-69, Cl. 83-373.
Breeze Corporations, Inc.: *See—*
Eccles, Fred J.; and Landow, Harold, 3,432,847.
Brefka, Paul E.: *See—*
Latham, Peter A.; and Brefka, Paul E.,3,471,058.
Shapiro, Laban D.; Latham, Peter A.; Brefka, Paul E.; and LaBric, Paul J.,3,479,568.
Bregazzi, Michael, to Shawinigan Chemicals Limited. Densification of acetylene black. 3,443,900, 5-13-69, Cl. 23-209.1
Bregenzer, Robert N.; and Arnold, Amy J., to Kellwood Company. Garment crotch construction. 3,486,507, 12-30-69, Cl. 128-528.
Breger, Joseph L.: *See—*
Schpak, Fred; Breger, Joseph L.; and Warner, Robert H.,3,423,886.
Bregman, Jacob I.; Anthes, David E.; and Braman, Robert S., to United States of America, Interior. Electrodialysis process using inorganic ion exchange membranes. 3,463,713, 8-26-69, Cl. 204-180.
Brehm, Paul Donald; and Carter, Raymond H., to MPB Corporation. Air turbine drive cartridge for dental drill. 3,421,224, 1-14-69, Cl. 32-27.
Brehmer, Thorwill; and Pomeroy, Chester M., to Du Pont de Nemours, E. I., and Company. Emergency support for pneumatic tires. 3,485,283, 12-23-69, Cl. 152-158.
Breicher, Erich: *See—*
Soleanicov, Vladimir; Pop, Laurentiu Ion; and Breicher, Erich,3,468,141.
Breidenbach, Eric P.: *See—*
Wall, Henry H.; Breidenbach, Eric P.; and Miller, Leo A.,3,468,967.
Breidenbach, Gert: *See—*
Mittmann, Wolfgang M.; and Breidenbach, Gert,3,481,444.
Breidenbach, Victor S.; and Close, Patrick B., to Hyde Park Electronics, Inc. Press impact sensor. 3,444,390, 5-13-69, Cl. 307-116.
Breidt, Peter, Jr.; and Lefevre, Lloyd E., to Dow Chemical Company, The. Method for the preparation of a filamentary reinforced resinous article having improved surface characteristics. 3,432,588, 3-11-69, Cl. 264-171.
Breidt, Peter, Jr.: *See—*
Lefevre, Lloyd Edward; and Breidt, Peter, Jr.,3,479,425.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Isolation of trisazo dyestuffs. 3,485,570, 12-23-69, Cl. 8-41.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Isolation of metallisable black monoazo dyestuffs. 3,485,571, 12-23-69, Cl. 8-41.
Breil, Heinz: *See—*
Wilke, Gunther; and Breil, Heinz,3,450,728.
Wilke, Gunther; Muller, Ernst Willi; Kroner, Michael; Heimbach, Paul; and Breil, Heinz,3,450,732.
Breisch, John H. Wire cutting pliers having reinforced resilient material holding means. 3,456,343, 7-22-69, Cl. 30-124.
Breisch, John H.; and Biermann, Arnold E., to Kendale Industries, Inc. Reversible pawl-type clutch mechanism. 3,463,279, 8-26-69, Cl. 192-35.
Breit, Hjalmar E., Jr. Apparatus and method for marine push towing. 3,486,476, 12-30-69, Cl. 114-235.
Breitbarth, William W.; Carter, John W.; and Costa, Philip J., to Caterpillar Tractor Company. Electronic circuit for automatic blade control for motor graders. 3,454,101, 7-8-69, Cl. 172-4.5
Breitengross, Richard E. Optical device for cavity inspection. 3,423,145, 1-21-69, Cl. 350-24.
Breitenstein, Charles T.; and Nicolaus, Frank G., to Rowe International, Inc. Large capacity mechanical coin totalizer. 3,483,957, 12-16-69, Cl. 194-32.
Breitenstein, Charles T.; Pearl, Donald C.; and Eliason, Walter A., to Canteen Corporation. Apparatus for hot beverage brewing. 3,429,253, 2-25-69, Cl. 99-283.
Breitholtz, Bo; and Carlen, Fred, to Allmanna Svenska Elektriska Aktiebolaget. Vacuum DC breaker with relative contact movement interposing a non-conductor to extinguish arc. 3,482,070, 12-2-69, Cl. 200-151.
Breitholtz, Bo; Carlen, Fred; and Ahrnholm, Par, to Allmanna Svenska Elektriska Aktiebolaget. Magnetically operated valve. 3,424,199, 1-28-69, Cl. 137-596.
Breitman, Leo: *See—*
Orr, Robert J.; Breitman, Leo; and Buckler, Ernest J.,3,467,620.
Breitsprecher, Charles O.; and Kauffman, Jack, to Racine Hydraulics, Inc. Feed panel. 3,474,826, 10-28-69, Cl. 137-599.
Breitweiser, Gary C., to Conductron Corporation. Method of producing a control system. 3,470,609, 10-7-69, Cl. 29-571.
Breitweiser, Gary C., to Conductron Corporation. Method of producing a control system. 3,470,610, 10-7-69, Cl. 29-571.
Breitweiser, Gary C.; and Burford, William B., III, to McDonnell Douglas Corporation, mesne. Recording type profile analysing apparatus. 3,442,019, 5-6-69, Cl. 33-174.
Brekle, Oliver R., to M & B Metal Products Company. Garment form retainer. 3,476,298, 11-4-69, Cl. 223-71.
Bremer, Ferdinand; and Meyer, Joachim, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. High pressure container. 3,443,631, 5-13-69, Cl. 165-47.
Bremer, James A., to Ford Motor Company. Dimpled press stock. 3,440,988, 4-29-69, Cl. 113-120.
Bremer, Robert D., to General Motors Corporation. Microwave oven. 3,461,260, 8-12-69, Cl. 219-10.55
Bremer, Sherman L., to National Distillers and Chemical Corporation. Plastic pipe coupling. 3,473,833, 10-21-69, Cl. 285-284.
Bremers, Victor M. J. Structure for the assembly of adjustable framework. 3,429,601, 2-25-69, Cl. 287-189.36
Bremmer, Bart J., to Dow Chemical Company, The. Halogenation of aromatic compounds. 3,426,035, 2-4-69, Cl. 260-297.
Bremmer, Bart J., to Dow Chemical Company, The. Thermosettable epoxides containing isocyanate blocked with phenol-formaldehyde novolacs. 3,442,974, 5-6-69, Cl. 260-831.
Bremshey & Co.: *See—*
Fulling, Wolfgang; and Ambrosius, Manfred, 3,423,060.
Pasch, Lothar, 3,473,541.

Weber, Heinz, 3,437,097.
Weber, Heinz, 3,439,690.
Weber, Heinz, 3,439,691.
Weber, Heinz, 3,456,662.
Weber, Heinz, 3,482,586.
Werner, Udo, 3,436,092.
Wolff, Joachim, 3,448,913.

Bremson, Robert S., Jr. Method and apparatus for photographic printing. 3,424,527, 1-28-69, Cl. 355-19.

Bren, Eunice M.: *See—*
Severson, Nels Arthur; and Bren, Eunice M.,3,441,022.

Brenchley, George R. Photosensitive fluid monitoring device. 3,459,304, 8-5-69, Cl. 210-93.

Brendel, Albert E., to Lebow Associates, Inc. Tension transducer. 3,426,589, 2-11-69, Cl. 73-144.

Brendel, Gottfried J., to Ethyl Corporation. Preparation of tertiary alkylamine alanes. 3,479,382, 11-18-69, Cl. 260-448.

Brendemuehl, Roger C., to Warner Electric Brake & Clutch Company. Control for actuating an electric brake to stop a driven load upon loss of electrical power. 3,439,249, 4-15-69, Cl. 318-368.

Brendle, Thomas A.: *See—*
McCue, David D.; and Brendle, Thomas A.,3,441,943.

Brendlen, Lawrence W., Jr., to Hewlett-Packard Company. Extractor-lock mechanism. 3,453,586, 7-1-69, Cl. 339-45.

Breneman, Jack L. Visual association device and method of operating the same. 3,455,035, 7-15-69, Cl. 35-77.

Breneman, Jack L.; and Gruber, Milan. Pneumatic toy vehicle propulsion system. 3,469,340, 9-30-69, Cl. 46-44.

Breneman, Jack L.; and Gruber, Milian. Mechanical hand. 3,453,774, 7-8-69, Cl. 46-245.

Brenia, Paul S., to Tridair Industries, mesne. Cargo carrier interlock system. 3,446,462, 5-27-69, Cl. 244-118.

Breniere, Andre, to CSF-Compagnie Generale de Telegraphie Sans Fil. Stabilized high voltage source. 3,486,105, 12-23-69, Cl. 321-18.

Brenin, Barry L., to United States of America, Air Force. Phase shifting apparatus. 3,482,190, 12-2-69, Cl. 333-29.

Brenkert, Wayne D.; and Deming, Roy. Self-scoring dart game. 3,454,276, 7-8-69, Cl. 273-102.2

Brennan, Edmund F.; and Hawes, John A., to Dymo Industries, Inc. Stencil and method of making the same. 3,435,758, 4-1-69, Cl. 101-127.1

Brennan, George A.: *See—*
Prichard, Evan S.; and Brennan, George A.,3,456,769.

Brennan, James A., to Mobil Oil Corporation. Method of preparing modified silicone polymers. 3,440,263, 4-22-69, Cl. 260-448.2

Brennan, James A., to Mobil Oil Corporation. Method of high temperature lubrication and fluid operation. 3,445,390, 5-20-69, Cl. 252-49.6

Brennan, John F., to Universal Oil Products Company. Partial hydrogenation of conjugated diolefinic hydrocarbons. 3,478,123, 11-11-69, Cl. 260-677.

Brennan, John M.; and Sparks, Harold R. Flexible chair seat. 3,463,547, 8-26-69, Cl. 297-459.

Brennan, Robert H., to General Electric Company. Voltage regulator vernier control device wherein an autotransformer is directly connected to the control fingers of a coarse control. 3,423,668, 1-21-69, Cl. 323-43.5

Brennan, Thomas E.; and Ward, Howard C., Jr., to General Electric Company. Stator end turn bracing system. 3,436,580, 4-1-69, Cl. 310-260.

Brennan, Thomas J.; and Baumstark, Walter A. Toilet tank fill valve. 3,424,187, 1-28-69, Cl. 137-217.

Brennan, Wendell E.: *See—*
Biles, James R.; Brennan, Wendell E.; Alexander, Stephen H.; and Hardy, Edgar E.,3,470,016.

Brenhan, William H.; and Wolf, Rudolph J., Jr., to Automation Industries, Inc., mesne. Strain gage measuring system. 3,481,189, 12-2-69, Cl. 73-88.5

Brennan, William R.: *See—*
Moore, Ralph W.; and Brennan, William R.,3,433,606.

Brenneman, John H. Structural locking and forming device. 3,469,815, 9-30-69, Cl. 249-41.

Brennen, Ronald F., to Uniweld Products, Inc. Stored energy electric stud welding apparatus. 3,423,558, 1-21-69, Cl. 219-98.

Brennen, Ronald F., to Uniweld Products, Inc. Stored energy electric stud welding apparatus. 3,423,560, 1-21-69, Cl. 219-98.

Brenner, Al. Awning window. 3,430,383, 3-4-69, Cl. 49-80.

Brenner, Charles: *See—*
Cirino, John F.; and Brenner, Charles,3,431,580.

Brenner, Kurt H., Jr., to Sylvania Electric Products Inc. Monoscope cathode ray tube. 3,439,215, 4-15-69, Cl. 315-12.

Brenner, Kurt H., Jr.; and Drake, Oscar Abram, to Sylvania Electric Products Inc. Monoscope cathode ray tube. 3,439,216, 4-15-69, Cl. 315-12.

Brenner, Millard M.; and Steinberg, Bernard D., to General Atronics Corporation. Optimum frequency communication system with different test frequencies in different test intervals. 3,443,228, 5-6-69, Cl. 325-56.

Brenner Raymond P.; and Warren, Robert A., to McDonnell Douglas Corporation. Restraint latch. 3,460,792, 8-12-69, Cl. 248-361.

Brenner, William C.: *See—*
Frisch, Erling; and Brenner, William C.,3,467,076.

Brent, Robert G., to Bell Aerospace Corporation. Hydraulic by-pass valve assembly. 3,460,440, 8-12-69, Cl. 91-447.

Brent, Robert G., to Bell Aerospace Corporation. Valve. 3,478,777, 11-18-69, Cl. 137-492.5

Brenter, Erich. Slidecraft. 3,436,091, 4-1-69, Cl. 280-16.

Brenter, Erich. Slidecraft. 3,450,413, 6-17-69, Cl. 280-16.

Brenza, James G.; and Kusnick, Arthur A., to International Business Machines Corporation. Pulse value determining receiver. 3,480,910, 11-25-69, Cl. 340-146.1

Brenzel, Daniel J., to FMC Corporation. Purification of phosphates. 3,449,069, 6-10-69, Cl. 23-107.

Breon, Pearl L.; Imes, Vernon W.; Johnson, Harold R.; Nutter, James M.; and Nutter, James M., to Caterpillar Tractor Company. Power module for a sectionalized vehicle. 3,478,833, 11-18-69, Cl. 180-12.

Breon, Pearl L.; Kress, Ralph H.; Medley, Jackson C.; Eilers, Elvin L.; and Kostas, James M., to Caterpillar Tractor Company. Steering system for multiple axle vehicle. 3,486,576, 12-30-69, Cl. 180-79.2

Brero & Co.: *See—*
Kamper, Helmut, 3,445,901.

Bresciani, Angelo; and Deflorin, Alberto, to Ciba Limited. Stable aqueous dispersions of ternary copolymers. 3,455,861, 7-15-69, Cl. 260-29.6

Bresin, Sheldon O.; and Ross, Donald E., to Northrop Corporation. Flexible drill string and operating apparatus therefor. 3,460,563, 8-12-69, Cl. 137-355.26

Bresina, Larry J.; and Miller, Richard A., to Minnesota Mining and Manufacturing Company. Transfer film and process of using same. 3,420,732, 1-7-69, Cl. 161-227.

Breske, Carl D., to Data Products Corporation. Apparatus for inspecting a reflective surface which includes a projector of a pattern of lines having different thicknesses. 3,439,988, 4-22-69, Cl. 356-237.

Breslin, John J., to Beamco, Inc. Apparatus for establishing a combined fluid conduit and electric circuit system. 3,465,111, 9-2-69, Cl. 200-61.6

Breslow, David S., to Hercules Incorporated. Phosphonitrilic compounds. 3,446,876, 5-27-69, Cl. 260-927.

Breslow, David S., to Hercules Incorporated. Cross-linked polymers and the process for their preparation. 3,448,063, 6-3-69, Cl. 260-2.

Breslow, Jeffrey D.; and Glass, Marvin I., to Glass, Marvin, & Associates. Ball throwing game apparatus. 3,474,771, 10-28-69, Cl. 124-16.

Breslow, Jeffrey D.; and Glass, Marvin I., to Glass, Marvin, & Associates. Racing game apparatus comprising wieght controlled contestants. 3,481,606, 12-2-69, Cl. 273-134.

Bresnahan, Robert A., to Dentists' Supply Company of New York, The. Chair base having porous air discharge unit and method of making the same. 3,433,320, 3-18-69, Cl. 180-124.

Bressat, Rene; De Calmes, Alain; Claudel, Bernard; and Trambouze, Yves, to Commissariat a l'Energie Atomique. Mixed oxide of thorium and uranium monophased oxydation catalyst. 3,459,682, 8-5-69, Cl. 252-469.

Bresslein, Helmut; and Korte, Klaus, to Werke AG. Arresting mechanism for result printer in calculator having multiplication facility. 3,459,371, 8-5-69, Cl. 235-60.

Bresslein, Helmut; and Korte, Klaus, to Olympia Werke AG. Actuating mechanism for result key in calculator having multiplication facility. 3,474,957, 10-28-69, Cl. 235-60.

Bressler, Bernice L.; and Bressler, Martin. Credit card identification device. 3,463,590, 8-26-69, Cl. 356-71.

Bressler, Leo F.: *See—*
Berger, Louis; Broida, Daniel; and Bressler, Leo F.,3,485,724.

Bressler, Martin: *See—*
Bressler, Bernice L.; and Bressler, Martin,3,463,590.

Bresson, Clarence R.; and Dix, James S., to Phillips Petroleum Company. Production of dithiols from aziridines. 3,424,800, 1-28-69, Cl. 260-609.

Brestel, Clarence C.; and Maschinot, Howard R., to Printing Machinery Company, The. Label die cutting machine. 3,468,200, 9-23-69, Cl. 83-62.

Bretl, Robert J., to Enstrom, R. J., Corporation. Pivoting spring capsule trim apparatus for helicopter rotor collective pitch control. 3,429,198, 2-25-69, Cl. 74-523.

Breton, Ernest J.; Eustice, Albert L.; and McCauley, Harry J., to Du Pont de Nemours, E. I., and Company. Method of integration of particulate material within a metal substrate and the product thereof. 3,480,460, 11-25-69, Cl. 117-22.

Breton, Guy, to Velan Engineering Ltd. Steam trap with relief valve. 3,433,412, 3-18-69, Cl. 236-59.

Bretsch, Michael A., to Champion Spark Plug Company. Spark plug. 3,468,004, 9-23-69, Cl. 29-25.12

Bretschneider, Gunther: *See—*
Knorre, Helmut; Bretschneider, Gunther; and Sauer, Heinrich,3,433,605.
Pfeifer, Karl; Bretschneider, Gunther; Schwarz, Rudolf; and Laun, Karl,3,472,459.
Brett, Charles K.: *See—*
Ames, Joseph L.; and Brett, Charles K.,3,437,194.
Brett, Harry E. Sailboat rigging. 3,485,197, 12-23-69, Cl. 114-102.
Brett, John Howard: *See—*
Carpenter, Peter John; and Brett, John Howard,3,428,991.
Brett, Perry A., to Bellco Glass, Inc. Container for use with autoclaves. 3,429,653, 2-25-69, Cl. 21-103.
Brettrager, Henry J.: *See—*
Reeve, Hal B.; Brettrager, Henry J.; and Rader, Elmer A.,3,425,495.
Bretz, John, to Lubrizol Corporation, The. Corrosion-proofing primer coating and metal article coated therewith. 3,451,865, 6-24-69, Cl. 148-6.16
Breu, Rudolf: *See—*
Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedhelm,3,426,491.
Breuer, David Roy, to TRW Inc. Direct-coupled differential-input amplifier. 3,480,872, 11-25-69, Cl. 330-30.
Breuer, Erich, to Aktiengesellschaft Brown, Boveri & Cie. Vacuum degassing apparatus for molten metals. 3,472,503, 10-14-69, Cl. 266-34.
Breuer, Hans-Jurgen, to Telefonaktiebolaget L M Ericsson. Arrangement for varying the feedback of an amplifier. 3,448,400, 6-3-69, Cl. 330-109.
Breuer, Hans: *See—*
Reich, Irving; and Breuer, Hans,3,484,378.
Breuer, Hermann, to Squibb, E. R., & Sons, Inc. Nitrofuryl oxadiazolones. 3,474,462, 10-21-69, Cl. 260-240.
Breuer, Klaus, to Hacmun, Hai. Intelligence storing tape device. 3,467,338, 9-16-69, Cl. 242-192.
Breukink, Carel J.; and Vermeulen, Jacob, to Shell Oil Company. Production of expanded thermoplastic products. 3,440,309, 4-22-69, Cl. 264-53.
Breunich, Theodore R.: *See—*
Di Noia, Emanuel J.; and Breunich, Theodore R.,3,421,370.
Brevard, Procter. High fidelity speaker. 3,470,976, 10-7-69, Cl. 181-31.
Brevets Aero-Mecaniques S.A.: *See—*
Birkigt, Louis, 3,479,955.
Birkigt, Louis, 3,479,956.
Bonna, Louis; and Pun, Lucas, 3,453,055.
Guerne, William, 3,450,048.
Maillard, Bernard, 3,437,006.
Maillard, Bernard, 3,447,418.
Maillard, Bernard, 3,452,640.
Brevets et Applications Textiles Brevatex: *See—*
Halleux, Hubert; and Masurel, Michel, 3,421,186.
Brevetti C.E.A. S.p.A.: *See—*
Ziche, Arrigo, 3,458,967.
Brew, Richard D., and Company, Incorporated: *See—*
Andersen, Ingar F.; Brew, Richard D.; and Duggan, John J., 3,429,563.
Brew, Richard D., Co., Inc.: *See—*
Andersen, Ingar F.; and Brew, Richard D., 3,420,985.
Brew, Richard D.: *See—*
Andersen, Ingar F.; and Brew, Richard D.,3,420,985.
Andersen, Ingar F.; Brew, Richard D.; and Duggan, John J.,3,429,563.
Brewer, Alan, to Mast development Company. Gas sensor. 3,450,620, 6-17-69, Cl. 204-195.
Brewer, Aubrey K.; and Adelman, Stuart L., said Brewer assor to Litton Systems, Inc. Method for analysis and identification of biologic entities by phosphorescence. 3,470,373, 9-30-69, Cl. 250-71.5
Brewer, Ben. Insect-proof weep hole. 3,429,084, 2-25-69, Cl. 52-101.
Brewer, C., and Company, Limited: *See—*
Hart, Charles W., 3,475,886.
Brewer, Charles C.; Fritz, Richard C.; and Moe, James M., said Brewer assor. to Foster Grant Co., Inc., and said Fritz and said Moe assors. to Chemetron Corporation. Dehydrogenation and methanation catalyst and process. 3,424,808, 1-28-69, Cl. 260-669.
Brewer, George E. F.; and Burnside, Gilbert L., to Ford Motor Company. Method for improving operational stability of electrocoating bath. 3,444,063, 5-13-69, Cl. 204-181.
Brewer, George E. F.; Burnside, Gilbert L.; Mohar, Arnulf F.; and Strosberg, Gordon G., to Ford Motor Company. Method of electrically induced deposition of paint on conductors. 3,444,066, 5-13-69, Cl. 204-181.
Brewer, George R.: *See—*
Wilson, Robert G.; Brewer, George R.; and Jamba, Douglas M.,3,479,545.
Brewer, Hal W.: *See—*
Johns, Marvin D.; and Brewer, Hal W.,3,470,844.
Brewer, John H., to B-D Laboratories, Inc. Anaerobe jar closure assembly. 3,483,089, 12-9-69, Cl. 195-127.
Brewer, John S. Apparatus and method for drilling wells. 3,456,720, 7-22-69, Cl. 166-0.5
Brewer, Lee M.; and Yonker, John F., to General Motors Corporation. Fluid pressure actuated reciprocable pump. 3,421,448, 1-14-69, Cl. 103-152.
Brewer, Nathaniel; and Wilson, Francis B., to GPE Controls, Inc. Motion-transmitting linkage. 3,433,133, 3-18-69, Cl. 92-100.
Brewer, Robert F., to Western Electric Company, Incorporated. Travelling probe arrangement for testing advancing articles. 3,460,037, 8-5-69, Cl. 324-158.
Brewer, Robert F.; and Piechocki, Benjamin, to Western Electric Company, Incorporated. Palladium copper contact for soldering. 3,476,531, 11-4-69, Cl. 29-195.
Brewer, Robert J.: *See—*
Avery, Carl Frederick; and Brewer, Robert J.,3,450,129.
Brewer, Russell C.; Bystricky, Joseph C.; and Miller, Lee T., to Motorola, Inc. Latch assembly for differential valve. 3,481,361, 12-2-69, Cl. 137-351.
Brewer-Titchener Corporation, The: *See—*
Webb, Elmer J., 3,455,215.
Brewin, John Dennis, to Pilkington Brothers Limited. Method of bending sheet glass with pressure cushions. 3,457,055, 7-22-69, Cl. 65-106.
Brewing Patents Limited: *See—*
Pinnegar, Michael Alan, 3,425,839.
Brewington, Charles R.: *See—*
Schwartz, Daniel P.; Brewington, Charles R.; and Burgwald, Louis H.,3,450,541.
Brewington, Philip J. Flush valve assembly. 3,478,368, 11-18-69, Cl. 4-57.
Brewster, Charles A.; and Plummer, Charles H., to Johnson & Johnson. Method for separating, conveying and collecting woodpulp fibers as a uniform layer and apparatus for carrying out the same. 3,475,791, 11-4-69, Cl. 19-156.3
Brewster, Donald B., to Addressograph-Multigraph Corporation. Blanket cleaner for rotary duplicating machine. 3,422,758, 1-21-69, Cl. 101-425.
Brewster, Donald B.; and Burgess, William H., Jr., to West Virginia Pulp and Paper Company. Apparatus for improving drainage on a forming wire. 3,463,700, 8-26-69, Cl. 162-308.
Brewster, Elton J.; and Rousso, Jack J., to Mobil Oil Corporation. Oscillographic apparatus for producing half-scale timing lines. 3,465,348, 9-2-69, Cl. 346-23.
Brewster, Gordon F.; and Weidel, Robert A., to Bausch & Lomb Incorporated. Barium flint ophthalmic segment glass. 3,481,751, 12-2-69, Cl. 106-53.
Brewster, Gordon F.; and Weidel, Robert A., to Bausch & Lomb Incorporated. Dense barium crown ophthalmic segment glass. 3,481,752, 12-2-69, Cl. 106-54.
Brewster, Gordon F.; and Weidel, Robert A., to Bausch & Lomb Incorporated. Light barium crown ophthalmic segment glass. 3,481,753, 12-2-69, Cl. 106-54.
Brewster, John H. Weight for fishing line. 3,461,598, 8-19-69, Cl. 43-44.97
Brewster, John L., to Field Emission Corporation. Automatic X-ray exposure control having a detector whose response is correlated with the X-ray absorption properties of the X-ray film. 3,483,379, 12-9-69, Cl. 250-95.
Brewster, Marshall L. Freeze drying process. 3,482,326, 12-9-69, Cl. 34-5.
Brey, Wilhelm, to Firestone Tire & Rubber Company, The. Collapsible tire building drum. 3,442,747, 5-6-69, Cl. 156-417.
Breyer, Frederick: *See—*
Harper, John D.; Breyer, Frederick; and Wagner, Richard C.,3,431,745.
Breyer, Norman N., to La Salle Steel Company. Method and means for surface finishing of steel. 3,430,477, 3-4-69, Cl. 72-275.
Breza, Stephen F.: *See—*
Cantarutti, Armindo; and Breza, Stephen F.,3,460,197.
Cantarutti, Armindo; and Breza, Stephen F.,3,484,898.
Turk, Leonard G.; Cantarutti, Armindo; and Breza, Stephen F.,3,461,502.
Brezic, Raymond L.: *See—*
Scardina, Virgil R.; Wagner, Paul D.; and Brezic, Raymond L.,3,463,955.
Brezinski, Julius J.: *See—*
Comstock, Lowell R.; Hardman, Donald E.; and Brezinski, Julius J.,3,472,914.
Briand, Alain, to Commissariat a L'Energie Atomique. Induction furnace. 3,428,770, 2-18-69, Cl. 219-10.49
Bric-Wall Manufacturing Co., Inc.: *See—*
Taylor, Calvin N., 3,426,490.
Brichard, Edgard; and Raes, Andre, to Glaverbel S.A. Apparatus for the remote control displacement of a tool. 3,470,776, 10-7-69, Cl. 83-11.
Brichard, Edgard: *See—*
Henry, Georges; Brichard, Edgard; Marchand, Jean; and Bauduin, Albert,3,477,838.

Bricker, Carl E., to Goodyear Tire & Rubber Company, The. Parking attachment for disk brake. 3,432,009, 3-11-69, Cl. 188-106.
Bricker, Robert E.; and Price, Ralph E., to Landis Tool Company, mesne. Feed stabilizing device. 3,467,074, 9-16-69, Cl. 125-11.
Bricker, Robert E.: *See—*
Price, Ralph E.; and Bricker, Robert E.,3,468,066.
Bricker, Samuel R., to Westinghouse Electric Corporation. Combination steaming and pressing device. 3,421,237, 1-14-69, Cl. 38-71.
Bricker, Samuel R., to Westinghouse Electric Corporation. Combination steaming and pressing device and water reservoir therefor. 3,421,238, 1-14-69, Cl. 38-71.
Bricker, Samuel R., to Westinghouse Electric Corporation. Pressing device. 3,449,846, 6-17-69, Cl. 38-71.
Brickey, Orville G.: *See—*
Begeman, Robert H.; Brickey, Orville G.; May, Charles W.; and McCormick, Richard E.,3,453,617.
Brickner, Joseph L., to Precision Winding Company, Inc. Magnetic field sensing and measuring apparatus. 3,434,047, 3-18-69, Cl. 324-43.
Bricmont, Francis H., to Bloom Engineering Company, Inc. Jet structures for high-temperature environments. 3,443,755, 5-13-69, Cl. 239-132.5
Brico Engineering Limited: *See—*
Farmer, Edwin Bruce, 3,432,290.
Rabson, Edward John, 3,456,318.
Briden, Horace. Devices for applying hammer blows to a body. 3,429,382, 2-25-69, Cl. 173-119.
Bridenbaugh, Carl G.: *See—*
Cadle, Norman; and Bridenbaugh, Carl G.,3,460,736.
Bridenstine, Orville J., to Phillips Petroleum Company. Container. 3,425,594, 2-4-69, Cl. 220-97.
Bridenstine, Orville J., to Phillips Petroleum Company. Rail liner. 3,456,808, 7-22-69, Cl. 211-134.
Bridge Chemicals Limited: *See—*
Jones, Barry David; and Sly, James Christopher Phillips, 3,455,990.
Bridge, David & Company Limited: *See—*
Purdy, Geoffrey; and Walton, George N., 3,429,115.
Bridge, Ernest W., to Mulhead Engineering Company Limited, The. Transfer machine. 3,438,478, 4-15-69, Cl. 198-19.
Bridge, Richard B.; and Marshall, Thomas E., III, to United States of America, Navy. Automatic weather information sending device. 3,430,217, 2-25-69, Cl. 340-187.
Bridge, William H.; Birmingham, Donald J.; and Austad, Ralph William, to Data Pathing Incorporated. Method of and system for interrogating a plurality of sources of data. 3,454,936, 7-8-69, Cl. 340-172.5
Bridgeford, Douglas J., to Tee-Pak, Inc. High wet strength webs impregnated with polymeric alcohol. 3,429,735, 2-25-69, Cl. 117-62.
Bridgeford, Douglas J., to Tee-Pak, Inc. Treatment of textile fibers with soluble polymeric alcohol derivatives. 3,450,555, 6-17-69, Cl. 117-62.
Bridgeford, Douglas J., to Tee-Pak, Inc. Method of coating the interior of a sausage casing. 3,451,827, 6-24-69, Cl. 99-176.
Bridgeford, Douglas J., to Tee-Pak, Inc. Stabilized starch xanthate. 3,484,433, 12-16-69, Cl. 260-233.3
Bridgeford, Douglas J.; and Turbak, Albin F., to Tee-Pak, Inc. Composite cellulose-wool products. 3,480,380, 11-25-69, Cl. 8-115.6
Bridgeford, Ronald E., to Phillips Petroleum Company. Purification of cyclohexane by fractional distillation with bottoms stream heat exchange. 3,437,564, 4-8-69, Cl. 203-25.
Bridgeman, Ules M., to Martinsburg Mills, Inc. Apparatus for closing the toe portion of circular knit hosiery. 3,450,075, 6-17-69, Cl. 112-27.
Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L., to Mobil Oil Corporation. Polyphenyl ethers. 3,450,772, 6-17-69, Cl. 260-613.
Bridges, Donald Edward, to Decca Limited. Receivers for phase comparison radio navigation systems. 3,465,341, 9-2-69, Cl. 343-105.
Bridges, Robert H. Remote control submersible and/or remote manipulator arm. 3,454,169, 7-8-69, Cl. 214-1.
Bridges, Robert L.; and Hasenwinkle, Earl D., to Weyerhaeuser Company. Automatic unstacker for veneer and other materials. 3,438,623, 4-15-69, Cl. 271-39.
Bridges, Thomas F.: *See—*
Basile, Norman K.; and Bridges, Thomas F.,3,428,205.
Bridges, Thomas F., to McMullen, John J. Arrangement for keying liquefied gas storage tanks within a transport vessel. 3,425,583, 2-4-69, Cl. 220-15.
Bridges, Thomas Fort; Knight, George Raymond, Jr.; and Penney, Norman Withers, to McMullen, John J. Insulated tank configuration. 3,420,396, 1-7-69, Cl. 220-9.
Yearwood, Donald R.; Basile, Norman K.; and Bridges, Thomas F.,3,434,492.
Bridges, Thomas J., to Bell Telephone Laboratories, Incorporated. Q-switched molecular laser. 3,465,358, 9-2-69, Cl. 331-94.5
Bridges, Thomas J.; and Hempstead, Charles F., to Bell Telephone Laboratories, Incorporated. Null coil pendulum magnetometer with means for establishing an alternating magnetic flux gradient through the null coil. 3,431,489, 3-4-69, Cl. 324-34.
Bridges, Trevor Frederick; and Climie, Ian E. Application of liquid to filaments. 3,467,062, 9-16-69, Cl. 118-216.
Bridges, William B.; and Clark, Peter O., to Hughes Aircraft Company. Gaseous laser discharge tube. 3,427,567, 2-11-69, Cl. 331-94.5
Bridges, William B.; and Popa, Adrian E., to Hughes Aircraft Company. Frequency stabilized laser. 3,471,804, 10-7-69, Cl. 331-94.5
Bridgestone Tire Company Limited: *See—*
Kikukawa, Ryosuke, 3,426,803.
Murai, Korenori; Fukuda, Kiyo; Saotome, Kenji; and Sato, Shigetake, 3,454,504.
Onishi, Akira; Ishikawa, Takao; Sakata, Ryozo; Fujio, Ryota; and Tsuruta, Teiji, 3,467,624.
Bridigum, Robert J.: *See—*
Glass, William H.; and Bridigum, Robert J.,3,429,454.
Glass, William H.; and Bridigum, Robert J.,3,472,000.
Glass, William H.; and Bridigum, Robert J.,3,486,303.
Bridwell, Harold C.: *See—*
Link, Howard D.; Bridwell, Harold C.; and Rowley, David S.,3,437,159.
Briec, Michel: *See—*
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel,3,471,257.
Brieger, Emmet F., to Schlumberger Technology Corporation. Formation-sampling apparatus. 3,430,714, 3-4-69, Cl. 175-78.
Brieger, Hans, to Werkzeugmaschinenfabrik Oerlikon Buhrle & Co. Automatic firearm breechblock lock, the control member of which is latched by a gas operated setting member. 3,473,434, 10-21-69, Cl. 89-181.
Brienza, Michael J., to United Aircraft Corporation. Continuously variable laser acoustic delay line. 3,463,573, 8-26-69, Cl. 350-161.
Briere, Georges Bernard: *See—*
Felici, Noel Joseph; and Briere, Georges Bernard,3,443,856.
Felici, Noel J.; and Briere, Georges B.,3,444,062.
Briere, Pierre E.: *See—*
Teszner, Stanislas; Durand, Paul; Morel, Philippe H.; and Briere, Pierre E.,3,482,151.
Brierley, Thomas Albert, to Dunlop Tire and Rubber Corporation, mesne. Tire mold. 3,432,888, 3-18-69, Cl. 18-44.
Briffaud, Georges, to Commissariat a l'Energie Atomique. Method and apparatus for underwater radiological inspection, especially in the water-tank of a swimming pool reactor. 3,430,044, 2-25-69, Cl. 250-83.3
Briggin, Edward: *See—*
Katzman, Lawrence; and Briggin, Edward,3,420,509.
Katzman, Lawrence; and Briggin, Edward,3,480,001.
Briggs & Stratton Corporation: *See—*
Braun, Daniel E., 3,474,884.
Harkness, Joseph R., 3,429,533.
Harkness, Joseph R., 3,457,804.
Harkness, Joseph R.; and Lechtenberg, Leo J., 3,465,740.
Jacobi, Edward N., 3,434,317.
Briggs, Aubrey C., to Dravo Corporation. Barge handling and unloading system and method of handling and unloading barges. 3,420,388, 1-7-69, Cl. 214-14.
Briggs, Cecil Wallace; and Spatz, Paul M., to Honeywell Inc. Cyclic burner controlling apparatus for glass melting furnace. 3,475,151, 10-28-69, Cl. 65-162.
Briggs, Gary A.: *See—*
Meek, James M.; Lokerson, David T.; and Briggs, Gary A.,3,465,251.
Briggs, Jamalabo A. Dissecting board and head clamp. 3,484,096, 12-16-69, Cl. 269-328.
Briggs, James B., to Hoffman Electronics Corporation. Phase angle measurement system. 3,474,449, 10-21-69, Cl. 343-106.
Briggs, Peter James; and Hurlick, Ronald James, to Imperial Chemical Industries Limited. Resins stabilized with a nickel, chromium or cobalt chelate. 3,459,703, 8-5-69, Cl. 260-45.75
Briggs, Peter Richard Ashworth: *See—*
Dowsing, John; Briggs, Peter Richard Ashworth; and Sturdy, Clifford,3,464,245.
Briggs, Raymond W.: *See—*
Jones, Sheldon; and Briggs, Raymond W.,3,445,663.
Briggs, Southwick W.; and Gilbert, Howard W. Internal combustion engine. 3,459,167, 8-5-69, Cl. 123-191.
Briggs, Southwick W.; and Gilbert, Howard W. Oxidation apparatus. 3,473,323, 10-21-69, Cl. 60-30.
Briggs, Stephen F. Lightweight valve lifter. 3,470,983, 10-7-69, Cl. 184-6.
Briggs, Thomas H.; and Dudley, Richard H., said Briggs assor to Western Electric Company, Incorporated, and said Dudley assor. to Bell Telephone Laboratories, Incorporated. Angle-lap techniques for measuring layer thicknesses. 3,424,532, 1-28-69, Cl. 356-36.
Briggs, Thomas Stanley; and Brown, Kenneth Robson, to Ferranti, Limited. Methods of producing maps and means therefor. 3,435,742, 4-1-69, Cl. 95-12.

Briggs, Walton E., to National Research Corporation. Vacuum valves for leak detectors and the like. 3,426,581, 2-11-69, Cl. 73-40.7

Briggs, Walton E., to National Research Corporation. Leak detector and vacuum pumping station for high production rates. 3,486,365, 12-30-69, Cl. 73-40.7

Briggs, Warren S.: *See—*
Magee, John S., Jr.; and Briggs, Warren S.,3,433,747.
Magee, John S., Jr.; and Briggs, Warren S.,3,433,748.

Briggs, Warren S.; Stover, William A.; and Warthen, John L., to Grace, W. R., & Co. Method for the production of a supported chromium- colbalt-palladium oxide exhaust catalyst. 3,470,105, 9-30-69, Cl. 252-455.

Briggs, Warren Stanley; Stover, William Albert; and Henderson, Donald Stuart, to Grace, W. R., & Co. Hydrocarbon oxidation catalyst. 3,455,843, 7-15-69, Cl. 252-455.

Briggs, William R.; and Haimila, Armas O., to Wallace-Murray Corporation. Tooth bit for inserted tooth saws. 3,463,206, 8-26-69, Cl. 143-151.

Bright, Alan; Mijovic, Miroslav V.; and Saunders, David G., to Eastman Kodak Company. Fluorescent brightening compositions. 3,475,172, 10-28-69, Cl. 96-82.

Bright, Boris E.: *See—*
Real, Mackey J., Jr.; Jeglum, Paul M.; and Bright, Boris E.,3,429,175.

Bright, Edward D.: *See—*
Unger, Peter I.; and Bright, Edward D.,3,436,968.

Bright, Elvin M.; Zachry, David R.; and Cardone, Joseph T. Manufacture of resinous condensation products comprising reacting an amine, phenol, or urea with formaldehyde in the presence of an allylic compound. 3,427,284, 2-11-69, Cl. 260-57.

Bright, James A., to General Motors Corporation. Plural compartment high humidity domestic refrigerator. 3,455,119, 7-15-69, Cl. 62-180.

Bright, James A., to General Motors Corporation. Pump with oscillating vanes. 3,476,056, 11-4-69, Cl. 103-129.

Bright, Lee R. Poultry loader. 3,470,852, 10-7-69, Cl. 119-82.

Bright, Wilfred. Method of preparing die plates. 3,463,035, 8-26-69, Cl. 76-107.

Brightman, Barrie, to Stromberg-Carlson Corporation. Multifrequency detection system including a frequency multiplying circuit. 3,445,606, 5-20-69, Cl. 179-84.

Brightman, Barrie, to Stromberg-Carlson Corporation. Light responsive switching matrix. 3,474,415, 10-21-69, Cl. 340-166.

Brighton, John C.: *See—*
Scheitlin, George E.; and Brighton, John C.,3,427,094.

Brignac, Edmond P.; and Blyth, Randolph C., to Monsanto Company. Polymer melt screw pump for fiber spinning. 3,474,773, 10-28-69, Cl. 126-343.5

Brignac, Ron R., 46 1/2% to Grice, William A., and 7% to Fogleman, Carroll L. Copy paper holder attachment. 3,462,139, 8-19-69, Cl. 271-61.

Brignall, Thomas W.: *See—*
Birkenmeyer, Robert D.; and Brignall, Thomas W.,3,455,900.

Brigot, Camille; Droussent, Roger; and Commissriat a l'Energie Atomique. Method of assembly of bi-metallic tubes by welding without filler metal. 3,482,304, 12-9-69, Cl. 29-471.9

Brilando, Frank P., to Schwinn Bicycle Company. Unicycle saddle. 3,432,204, 3-11-69, Cl. 297-214.

Brilando, Frank P., to Schwinn Bicycle Company. Double plateau sprocket assembly. 3,477,303, 11-11-69, Cl. 74-243.

Brilando, Frank P.; and Blaho, Rudolph G., to Schwinn Bicycle Company. Spring-loaded bicycle saddle assembly. 3,481,628, 12-2-69, Cl. 280-283.

Brilando, Frank P.; Jameson, Stanley R.; and Blaho, Rudolph G., to Schwinn Bicycle Company. Twin control lever assembly. 3,426,614, 2-11-69, Cl. 74-501.

Briles, Franklin: *See—*
Howard, JoAnn; and Demaree, John E., 3,462,080.

Briles, Franklin S. Toilet paper dispenser. 3,428,267, 2-18-69, Cl. 242-55.53

Briles, Franklin S. Reamer. 3,460,410, 8-12-69, Cl. 77-72.

Briles, Franklin S. Blind fastener. 3,461,771, 8-19-69, Cl. 85-70.

Brill, Edward F., to Westinghouse Air Brake Company. Boring type miner conveyor drive. 3,443,680, 5-13-69, Cl. 198-203.

Brill, Edward F.; and Shelley, Howard E., to Westinghouse Air Brake Company. Contour cutter for continuous miner. 3,459,453, 8-5-69, Cl. 299-59.

Brill, Frederick W.; and Weingarten, Morris R., to RCA Corporation. Method of cleaning stem leads for electron devices. 3,477,835, 11-11-69, Cl. 65-32.

Brill, Harold C., to Du Pont de Nemours, E. I., and Company. Paper from deinked fibers including scavanged contaminants and fibrous alkali metal titanate. 3,471,361, 10-7-69, Cl. 162-8.

Brill, Harold C.; Gulledge, Hugh C.; and Ramsay, Howard L., to Du Pont de Nemours, E. I., and Company. Article exhibiting anisopanoramic light scattering, and composition and process for making same. 3,483,068, 12-9-69, Cl. 161-3.5

Brill, Thomas: *See—*
Trickett, Terrance; Zepp, Donald J.; Horne, Benjamin; and Brill, Thomas,3,445,635.

Brilmyer, Harold G., to Ford Motor Company. Safety instrument panel. 3,439,769, 4-22-69, Cl. 180-90.

Brilmyer, Harold G., to Ford Motor Company. Safety steering wheel assembly. 3,456,526, 7-22-69, Cl. 74-552.

Brilmyer, Harold G.; and Heap, Samuel A., to Ford Motor Company. Safety device for restraining passengers. 3,424,497, 1-28-69, Cl. 297-390.

Brimhall, Ray S. Hydraulic valve and system. 3,430,653, 3-4-69, Cl. 137-625.23

Brimley, Richard; Margetts, Lynn F.; and Margetts, Hyrum Russell. Venting antisiphon rotary plug valve with drainage means. 3,424,184, 1-28-69, Cl. 137-102.

Brimmer, David L.: *See—*
Rahm, Howard E.; and Brimmer, David L.,3,423,268.

Brinckman, Eric Maria, to Gevaert-Agfa N.V. Thermographic method for producing thermostable prints. 3,476,578, 11-4-69, Cl. 117-36.2

Brinckman, Frederick E.; and Haiss, Hermann S., to United States of America, Navy. Metal-1,3-diphenyltriazene derivatives and their preparation. 3,437,651, 4-8-69, Cl. 260-140.

Brinckmann, Paul C., to Kewanee Oil Company, mesne. Sodium activated cesium iodide scintillator. 3,446,745, 5-27-69, Cl. 252-301.4

Brinda, Gregory. Tube-piercing valve assembly. 3,450,149, 6-17-69, Cl. 137-318.

Brindamour, Normand E., to Merck & Co., Inc. Cross-linked acrylic acid polymer admixed with polyethylene glycol. 3,461,089, 8-12-69, Cl. 260-17.4

Brindell, Gordon D., to Uniroyal, Inc. Phenolic phosphites. 3,467,737, 9-16-69, Cl. 260-953.

Brindle, John Harry: *See—*
Eastwood, Fred; Brindle, John Harry; and Kolb, Frederick L., Jr.,3,458,169.

Brindley, Robert E.: *See—*
Doring, William H.; and Brindley, Robert E., 3,441,730.

Brindley, Robert E.: *See—*
Doring, William H.; and Brindley, Robert E.,3,441,730.

Brindley, Robert E.; and Doring, William H., to Union Carbide Corporation. Portable electric hand lantern. 3,456,102, 7-15-69, Cl. 240-10.63

Briney, Douglas: *See—*
Peters, George A.; and Briney, Douglas,3,454,154.

Bringman, Joseph M.; Lawther, James M.; and Kendig, Paul M., to United States of America, Navy, mesne. Line array hydrophone and system. 3,435,409, 3-25-69, Cl. 340-6.

Brink, Allan B.: *See—*
Drever, James Ross; Zimmerman, Philip D.; and Brink, Allan B.,3,476,847.

Brink, David L., to University of California, The Regents of the. Method of selectively extracting the alkali metal salts of tall oil fatty and resin acids from alkaline black liquor. 3,453,253, 7-1-69, Cl. 260-97.6

Brink, Richard E., to Curtis 1000 Inc. Envelope. 3,431,404, 3-4-69, Cl. 235-61.12

Brinkema, Robert Jacob, to Crompton & Knowles Corporation. Method of making an open mesh, rigid, glass fiber reinforced resin structure. 3,425,884, 2-4-69, Cl. 156-161.

Brinker, Keith C., to Du Pont de Nemours, E. I., and Company. Composition of matter containing wax and a resinous copolymer of ethylene. 3,427,265, 2-11-69, Cl. 260-17.4

Brinkerhoff, George E., to Dresser Industries, Inc. Glass tank structure. 3,463,466, 8-26-69, Cl. 263-15.

Brinkerhoff, Joris M., to United States of America, Atomic Energy Commission. Variable frequency high sensitivity microwave spectroscopy. 3,443,217, 5-6-69, Cl. 324-58.5

Brinkerhoff, Joris M.; and Burton, Robert G., to Laboratory for Electronics, Inc. Apparatus for analyzing the energy distribution of a radioisotope in the presence of interfering radiation. 3,486,025, 12-23-69, Cl. 250-83.3

Brinkhoff, Carl H., to Mine Safety Appliances Company. Adjustable ear protector. 3,454,964, 7-15-69, Cl. 2-209.

Brinkley, Earl; and Doyle, John R., to Kartridg Pak Co., The. Container filling machine. 3,426,812, 2-11-69, Cl. 141-140.

Brinkley, Max D.; and Griffiths, Robert I., to Goodyear Tire & Rubber Company , The. Applying adhesive to skived tire tread. 3,467,063, 9-16-69, Cl. 118-314.

Brinkman, Rudolf: *See—*
Bode, Helmut; and Brinkman, Rudolf,3,438,570.

Brinkman, Thomas J.; Fogt, Thomas H.; Long, George B.; and Whistler, Charles C., Jr., to General Motors Corporation. Clothes dryer with lint disposer. 3,475,829, 11-4-69, Cl. 34-44.

Brinkmann, Friedrich: *See—*
Heyer, Willy; and Brinkmann, Friedrich,3,421,795.

Brinkmann, Horst: *See—*
Nordsiek, Karl-Heinz; and Brinkmann, Horst,3,429,952.

Brinkmann, Karl-Heinz: *See—*
Opel, Detlef; Brinkmann, Karl-Heinz; and Kosmalski, Hermann,3,429,340.
Brinkmeier, Friedhelm, to Windmoller & Holscher. Machine for closing bags. 3,439,470, 4-22-69, Cl. 53-70.
Brinkmeier, Friedhelm; and Aulmann, Dietrich, to Windmoller & Holscher. Method and apparatus for applying closure heat-seals to filled plastic bags. 3,432,982, 3-18-69, Cl. 53-40.
Brinkmeier, Friedhelm; Fiks, Gerhard; and Rochla, Kurt, to Windmoller & Holscher. Apparatus for cooling and compressing the hot fused beads of plies of plastic material which have been heat-sealed. 3,461,021, 8-12-69, Cl. 156-498.
Brinks, Bernard J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,472,742.
Brinsley, Alfred Richard: *See—*
Lawrenson, Thomas; and Brinsley, Alfred Richard,3,460,334.
Brinson, Roger; and Rodriguez, Alan, to Angus, George & Company Limited. Manufacture of firehose. 3,422,854, 1-21-69, Cl. 138-137.
Brinster, John F. Image transmission system. 3,482,040, 12-2-69, Cl. 178-6.8
Brion, Albert E., Jr.: *See—*
Duvall, William C.; Ludwick, William R.; and Brion, Albert E., Jr.,3,432,609.
Brion, Jacques; Cousin, Michel; Talejkinski, Wulf; and Volk, Andre, to Commissariat a l'Energie Atomique. Gas filtering installation. 3,479,800, 11-25-69, Cl. 55-294.
Brion, Stanley A., to Plessey Company Limited, The. Rotary stepping motor with permanent magnet rotor having asymmetrical poles. 3,479,539, 11-18-69, Cl. 310-49.
Briones, Robert A.: *See—*
Wuerker, Ralph F.; and Briones, Robert A.,3,480,831.
Brischnik, Franz, to Aktiengesellschaft Brown, Boveri & Cie. Voltage regulation apparatus with an optical feedback. 3,431,464, 3-4-69, Cl. 315-158.
Brishka, Alexander R., to Sealectro Corporation. Right angle connectors. 3,432,798, 3-11-69, Cl. 339-89.
Briskin, Samuel. Device for attaching ornaments to fabrics. 3,483,603, 12-16-69, Cl. 29-10.
Briskin, Theodore S; and Ward, Geoffrey R., to Sutton Research Corporation. Oxidized cellulose smokable product including ashing ingredient. 3,447,539, 6-3-69, Cl. 131-2.
Briskin, Theodore S.; and Ward, Geoffrey R., to Sutton Research Corporation. Method for preparation of smoking product with selective reduction following selective oxidation. 3,478,751, 11-18-69, Cl. 131-2.
Briskin, Theodore S.; and Ward, Geoffrey R., to Sutton Research Corporation. Cellulosic smoking product and method in the preparation of same. 3,478,752, 11-18-69, Cl. 131-2.
Briskin, Theodore S.; and Ward, Geoffrey R., to LSutton Research Corporation. Preparation of smoking product from cellulosic material and processes in treatment thereof. 3,482,578, 12-9-69, Cl. 131-2.
Brisse, William C.; and Vincent, Rene C., to Laconia Metal Products, Inc. Apparatus for establishing a fluid-tight bypass. 3,422,211, 1-14-69, Cl. 174-22.
Brissenden, Derek V.: *See—*
Stevens, Alan Ernest; and Brissenden, Derek V.,3,485,999.
Brisson, Edgar H.: *See—*
Beauregard, William W.; and Brisson, Edgar H.,3,455,121.
Brisson, John R., to Lodal, Inc. Refuse collection. 3,451,571, 6-24-69, Cl. 214-516.
Bristol Aerojet Limited: *See—*
Fisher, William Thoby, 3,460,430.
Bristol, Alexander Christian, to American Cyanamid Company. Method for bonding a polyester resin to a resinous substrate. 3,457,104, 7-22-69, Cl. 117-138.8
Bristol, David A., to General Electric Company. Aircraft instrument light supporting means. 3,475,602, 10-28-69, Cl. 240-2.1
Bristol, John E., to Du Pont de Nemours, E. I., and Company. Production of granular polyvinyl alcohol. 3,487,060, 12-30-69, Cl. 260-89.1
Bristol, John E., to Du Pont de Nemours, E. I., and Company. Continuous production of gel-resistant 97-98.5% alcoholized polyvinyl alcohol. 3,487,061, 12-30-69, Cl. 260-89.1
Bristol, Robert E.; and Boudreau, John L., to Casco Products Corporation. Electric cigar lighter igniting unit. 3,462,581, 8-19-69, Cl. 219-267.
Bristol Siddeley Engines Limited: *See—*
Barlow, Benjamin William, 3,420,057.
Clarke, George Frederick; and Roberts, Derek Aubrey, 3,423,048.
Dakin, Robin Michael, 3,447,317.
Denning, Ralph Murch; Hertel, Heinrich; and Harmsen, Siegfried, 3,447,764.
Gardiner, Terence Edward Gouvenot; and Fuller, John Rodney Dyson, 3,433,244.
Haworth, Lionel, 3,436,910.
Llewelyn, Geirionydd; and Ubank, Raymond George, 3,432,280.
Llewelyn, Geirionydd; and Ubank, Raymond George, 3,446,655.
Moore, Alan, 3,437,313.
Richardson, Leslie Frederick; and Parnell, David Harding, 3,430,443.
Saunders, John Frank; and Ryder, Geoffrey Lionel, 3,465,837.
Tiley, David Terence, 3,447,325.
Whittle, Frank; and Thomas, Derek, 3,476,196.
Bristol-Banyu Research Institute, Ltd.: *See—*
Naito, Takayuki; and Nakagawa, Susumu, 3,479,365.
Bristol-Myers Company: *See—*
Belleau, Bernard; and Menard, Marcel, 3,455,929.
Buchanan, Ronald L.; and Partyka, Richard A., 3,452,039.
Cheney, Lee C.; and Perron, Yvon G., 3,454,556.
Crast, Leonard B., Jr., 3,422,099.
Crast, Leonard Bruce, Jr., 3,422,100.
Crenshaw, Ronnie R., 3,471,507.
Cron, Martin John; and Smith, Robert Edward, 3,480,614.
Essery, John Michael, 3,427,302.
Gottstein, William Joseph, 3,454,626.
Granatek, Alphonse P.; and De Murio, Michael P., 3,459,858.
Granatek, Edmund S.; and Granatek, Alphonse P., 3,425,962.
Granatek, Edmund S.; and Granatek, Alphonse P., 3,452,138.
Holava, Henry Michael, Jr.; and Partyka, Richard Anthony, 3,464,988.
Holdrege, Charles Truman, 3,464,985.
Holdrege, Charles Truman, 3,479,339.
Holdrege, Charles Truman, 3,481,922.
Horning, Donald E., 3,484,457.
Johnson, David A.; and Hardcastle, Glenn A., Jr., 3,472,841.
Keil, John G.; and Hooper, Irving R., 3,428,623.
Keil, John G.; and Hooper, Irving R., 3,454,548.
Mc Gregor, Donald Neil, 3,483,188.
Montzka, Thomas Alfred, 3,452,086.
Perron, Yvon G.; and Kavadias, Gerry, 3,452,026.
Sheehan, John Clark, 3,487,070.
Sheehan, John Clark, 3,487,071.
Sheehan, John Clark, 3,487,072.
Sheehan, John Clark, 3,487,074.
Sheehan, John Clark, 3,487,079.
Sheehan, John Clark, 3,487,090.
Weinberg, Norman L., 3,452,140.
Bristow, Barney C., to L.N.B. Company, mesne. Hydraulic tank cleaning apparatus. 3,464,632, 9-2-69, Cl. 239-227.
Bristow, Barney C., to L.N.B. Company, mesne. Nozzle. 3,486,700, 12-30-69, Cl. 239-590.5
Bristow, Joseph J. Gutter guard. 3,428,183, 2-18-69, Cl. 210-474.
Britain, J. W., to Mobay Chemical Company. Polyurethane fibers. 3,422,066, 1-14-69, Cl. 260-47.
Britampoula A.G.: *See—*
Drewe, John, 3,473,524.
Britax (London) Limited: *See—*
Burleigh, David William, 3,430,891.
Proctor, Ronald Allan, 3,440,697.
Britcher, Arthur Iden: *See—*
Beighton, George William; and Britcher, Arthur Iden,3,439,729.
Britcher, Harry H., Jr.; and Gallucci, Francis, to United States Steel Corporation. Car having ladle supporting and positioning means. 3,459,312, 8-5-69, Cl. 214-1.
Brite Industries, Inc.: *See—*
Friedman, Samuel; Harris, Robert O.; Mauch, Erwin W.; Harris, James P.; and Manzo, Joseph F., 3,470,638.
British Aircraft Corporation Limited: *See—*
Hathaway, Royston George Walter, 3,481,613.
Oliver, Cyril Victor, 3,460,448.
Pyptiuk, Henryk, 3,463,421.
Richards, Frank A., 3,450,373.
British Aircraft Corporation (Operating) Limited: *See—*
Appleby, James Kenneth, 3,480,237.
Johnson, Leonard J. W., 3,457,638.
Knight, John R.; and Leworthy, John, 3,428,270.
Lock, Stanley Anthony, 3,477,667.
Pyptiuk, Henryk, 3,482,804.
Walker, Brian Thomas, 3,439,854.
British Aluminium Company Limited, The: *See—*
Ayers, Peter, 3,473,600.
Young, Reginald S.; and Pitcher, David Edward, 3,444,726.
Young, Reginald Searles, 3,454,874.
British Bakeries Limited: *See—*
Rollett, Anthony Victor; Smith, Alexander Steel; Cookson, Martin Alan; and Anderson, William, 3,485,188.
British Broadcasting Corporation, The: *See—*
Davies, Henry; Houlgate, Henry J.; Larkby, Geoffrey W. H.; and Peat, Derek, 3,458,156.
British Cast Iron Research Association: *See—*
Godding, Ronald G., 3,472,307.
British Cast Iron Research Association, The: *See—*
Shaw, Francis M., 3,425,670.
British Drug Houses Limited, The: *See—*
Burn, Derek; and Petrow, Vladimir, 3,427,389.

Burn, Derek; Coombs, Robert Victor; and Petrow, Vladimir, 3,442,891.
Ellis, Bernard; Feather, Peter; Mac Bride, Hugh; and Petrow, Vladimir, 3,437,657.
Ellis, Bernard; Petrow, Vladimir; and Stanway, David Neil, 3,478,069.
Feather, Peter; and Petrow, Vladimir, 3,442,918.
Feather, Peter; and Petrow, Vladimir, 3,442,919.
Feather, Peter; and Petrow, Vladimir, 3,463,796.
Feather, Peter; and Petrow, Vladimir, 3,463,797.
Kirk, David Neville; Petrow, Vladimir; Stansfield, Martin; and Williamson, David Morton, 3,452,006.
Lester, Michael George; Stephenson, Oliver; and Petrow, Vladimir, 3,463,776.
Petrow, Valdimir; Burgess, Colin Michael; and Feather, Peter, 3,470,193.
Petrow, Vladimir; Stephensn, Oliver; and Wild, Anthony Musgrave, 3,462,483.

British Geon Limited: *See*—
Abercrombie, Malcolm James; and Thomas, David B., 3,480,602.

British Hovercraft Corporation Limited: *See*—
Hardy, Derek James; and Riddle, Lavis Albert Henry, 3,467,215.
Hardy, Derek James; and Riddle, Lavis Albert Henry, 3,469,650.

British Hydrocarbon Chemicals Limited: *See*—
Gentles, Robert Paul, 3,425,958.
Marrian, Stanley Frederic, 3,423,454.
Marrian, Stanley Frederic; and Wirth, Max Marin, 3,427,350.
Marrina, Stanley Frederic, 3,454,481.
Oldham, Wilfred John, 3,442,964.
Oldham, Wilfred John, 3,442,965.

British Industrial Plastics Limited: *See*—
Barrell, Kenneth; and Phillips, William, 3,466,262.
Downing, Brian York, 3,444,114.
Downing, Brian York, 3,464,946.
Groves, Walter Robert, 3,453,691.
Hofton, James; Vickers, William Henry; and Woodward, Anthony, 3,428,608.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, 3,422,035.
May, Herbert; Kendall-Smith, Brian John; Dodd, John Alan; and Instone, Alan Thomas, 3,442,867.
May, Herbert; Kendall-Smith, Brian John; and Spensley, Robert Hardy, 3,449,267.
May, Herbert; Kendall-Smith, Brian John; and Dodd, John Alan, 3,451,967.
May, Herbert; and Partridge, Derek Bernard, 3,466,263.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, 3,474,074.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, 3,480,590.

British Insulated Callender's Cables Limited:*See*—
Bonikowski, Zbigniew; and Szostak, Jerzy Przemyslaw, 3,461,369.
Davey, Edward Leslie, 3,429,979.
Endacott, John Derrick; and Manktelow, Anthony John, 3,461,219.
Gahir, Avtar Singh; and Papadopulos, Michael Savvas, 3,453,372.
Gahir, Avtar Singh, 3,456,065.
Gatiss, John William; and Joyce, William John, 3,443,156.
Goodfellow, David Sydney; and Gilbertson, Ian David, 3,468,115.
Harvey, Peter, 3,481,126.
Lawrenson, Thomas; and Brinsley, Alfred Richard, 3,460,334.
Lea, Frank, 3,429,114.
Lorch, Hermann Richard; and Sorsky, Gideon, 3,469,307.
Papadopulos, Michael Savvas, 3,469,014.
Watkins, Roland Howard Weir; and Williamson, Henry John, 3,452,813.

British Iron and Steel Research Association, The: *See*—
Bullough, William, 3,486,484.
Laws, William Robert; Holt, Henry Christopher; and Salter, Frank Michael, 3,469,827.
Lysakowski, Edward; and Kenny, John, 3,432,884.
Phillips, Rodney, 3,472,707.
Thomas, Jack M., 3,427,853.
Wistreich, John G., 3,457,748.
Yeomans, Kenneth A., 3,457,747.
Yeomans, Kenneth Alfred, 3,468,145.

British Lighting Industries Limited: *See*—
Keble, John M., 3,426,305.
Privett, Herbert L.; and Ruff, Harold R., 3,463,964.
Ranby, Peter Whitten; and Palowkar, David Richard, 3,472,785.
Smalley, John F., 3,463,958.

British Needle Company Ltd., The: *See*—
Stephens, Frederick Allen; and Hurst, Arthur, 3,432,059.

British Nylon Spinners Limited: *See*—
Cannon, Cyril G.; Davies, Barrie L.; Selwood, Alan; and Williams, Roy A., 3,468,117.
Cannon, Cyril G.; Selwood, Alan; Davies, Barrie L.; and Williams, Roy A., 3,486,318.
Carter, John Anthony; and Tyler, Geoffrey James, 3,475,387.
Cowell, Clifton Douglas; and Tyler, Geoffrey James, 3,485,805.
Crosby, David W., 3,476,636.
Davies, Barrie Linton; and Selwood, Alan, 3,423,266.
Davies, Barrie Linton; and Selwood, Alan, 3,481,558.
Davies, Gerald Thomas; and Brown, Kenneth Gordon, 3,421,926.
Hofton, Martin Richard, 3,471,426.
Hudgell, Alfred William David, 3,469,279.
Jenkins, Donald Glyn; and Parikh, Anil Chandrakant, 3,473,316.
Jenkins, Donald Glyn; and Parikh, Anil Chandrakant, 3,474,612.
Parikh, Anil Chandrakant; and Daniels, Barrie, 3,470,684.
Ramsey, Keith W.; and Dunnill, John H., 3,420,804.

British Oxygen Company Limited, The: *See*—
Clarke, Michael E., 3,435,840.
Doxey, Brian C.; and Miller, Robert E., 3,439,425.
Garrett, Michael E., 3,429,342.
Hogg, Christopher A., 3,459,331.
Hogg, Christopher A., 3,474,940.
King, Brian Edmund, 3,441,735.
Robertson, David M., 3,474,812.
Rousset, Rene P.; and Bennett, Brian S., 3,420,418.
Smith, Kenneth C., 3,447,331.
Spielmann, Erich R., 3,440,797.
Tatham, John Edward, 3,473,531.
Webster, Thomas J.; and Garrett, Michael E., 3,431,746.
Webster, Thomas J., 3,451,196.
Webster, Thomas J., 3,467,365.

British Oxygen Company, The: *See*—
Buckingham, Herbert Charles; and Penson, Michael, 3,448,241.

British Petroleum Company Limited, The: *See*—
Andrews, Kenneth Ernest; and Westman, Kevin, 3,465,947.
Anstey, Roger Hilary; and Macnab, Robert Marshall, 3,422,003.
Carruthers, John; and Winsor, John, 3,484,496.
Demeester, Jacques Emile; and Helion, Raymond, 3,475,320.
Forbes, Alan D.; and Gould, Patrick, 3,422,014.
Forbes, George, 3,431,084.
Ford, John Frederick; and Wood, John Michael, 3,484,373.
Foster, Gordon; and Johnson, Peter, 3,456,019.
Goldup, Alan; and Westaway, Michael Thomas, 3,472,762.
Goldup, Alan; Morrison, Anthony B.; and Westaway, Michael Thomas, 3,484,500.
Groszek, Aleksander Jerzy, 3,476,325.
Hambling, James Keith; and Grebbell, John, 3,424,814.
Hambling, James Keith; and Thomas, Ieuan Jenkin, 3,436,379.
Hambling, James Keith; and Jones, John Robert, 3,457,321.
Hambling, James Keith; and Jones, John Robert, 3,463,831.
Hambling, James Keith; and Jones, John Robert, 3,465,056.
Hambling, James Keith; and Jones, John Robert, 3,483,268.
Hopkins, Kenneth William, 3,430,670.
Howman, Eric James; Bradshaw, Cristopher Patrick Cadman; and Turner, Leonard, 3,424,812.
Howman, Eric James; and Turner, Leonard, 3,448,163.
Lawrance, Paul Anthony; and Burbidge, Bernard Whiting, 3,440,178.
Mackley, Jack, 3,469,950.
Stern, Hugh Walter; and Jones, John Robert, 3,446,866.
Stern, Robert; Welch, Thomas Ronald; and Sage, John Ashley, 3,440,074.
Topham, William Henry, 3,429,176.
Turnbull, John N.; and Gilbert, Ronald J. H., 3,428,552.
Turner, Leonard; and McGrath, Brian Patrick, 3,444,096.
Ward, Eric Henry, 3,445,658.
Williams, Keith Vaughan; and Turner, Leonard, 3,485,889.
Winsor, John, 3,484,367.
Winsor, John; and Carruthers, John, 3,484,501.

British Resin Products Limited: *See*—
Jones, Stanley Harold; and Williams, Parry, 3,449,285.

British Ropes Limited: *See*—
Campbell, Robert Edward, 3,425,207.
Gessler, Jan Klaus, 3,480,754.

British Scientific Instrument Research Association: *See*—
Baker, Lionel Richard, 3,450,889.
Watkin, David Anthony; Coode, Edward John; and Austen, Cecil John, 3,435,685.

British Scientific Instrument Research ssociation: *See*—
Watkin, David Anthony; Noe, Edwin Henry; and Wade, Peter, 3,476,058.

British Telecommunications Research Limited: *See*—
Clark, Adrian Percy, 3,440,345.
Craft, David J., 3,449,953.
Craft, David John, 3,457,933.
Graft, David John, 3,468,342.

Mumford, Howard; Smith, Peter William; and Halliday, David, 3,452,294.
British Thermostat Company Limited, The: *See—*
Mills, Gerald F., 3,457,839.
British Titan Products Company Limited: *See—*
Cleaver, Denis, 3,428,771.
Cleaver, Denis, 3,438,720.
Evans, Arthur Wallace; and Cleaver, Denis, 3,429,665.
Evans, Arthur Wallace; Wynne, Reginald George; and Marynowski, Chester Waldemar, 3,485,591.
Groes, James Dennis; and Arkless, Kenneth, 3,463,610.
Groves, James Dennis, 3,445,937.
Haigh, Harold Edwards, 3,456,888.
Hare, Alan Lawrence, 3,448,333.
Herriman, John Dennis; and Hare, Alan Lawrence, 3,464,792.
Myatt, James Kenneth, 3,448,931.
Twist, Walter, 3,464,791.
Weinberg, Felix Jiri; Howden, Derek; and Cleaver, Denis, 3,434,950.
British Welding Research Association: *See—*
Dawes, Christopher J., 3,478,190.
Britt, Jack; and Swain, Francis Alan, to Rolls-Royce Limited. Compressors or turbines for gas turbine engines. 3,428,243, 2-18-69, Cl. 230-122.
Britt, James Edward, to Pulse Communications, Inc. Pulse code signal distortion monitor. 3,421,021, 1-7-69, Cl. 307-234.
Britt, James Edward; Warren, Larry Hartwell; and Melville, John Ward, to Xerox Corporation. Sheet distributor. 3,467,371, 9-16-69, Cl. 270-58.
Britt, James E., to Susquehanna Corporation, The. Pulse distortion testing apparatus. 3,420,950, 1-7-69, Cl. 178-69.
Britt, James E., to Susquehanna Corporation, The. Apparatus for testing a telephone circuit. 3,430,008, 2-25-69, Cl. 179-175.1
Britt, Kenneth W.: *See—*
Yiannos, Peter N.; and Britt, Kenneth W.,3,458,394.
Britt, Ramon P., to United States of America, Agriculture. Method of attaching leads to a cylindrical piezoelectric transducer. 3,479,729, 11-25-69, Cl. 29-471.3
Britt Tech Corporation: *See—*
Norstrud, Iven R.; and Threlkeld, John H., 3,446,238.
Britt, Thomas M.: *See—*
Bruce, Alfred C.; and Britt, Thomas M.,3,436,231.
Brittain, Anthony S., to National Biscuit Company, mesne. Conveyor systems. 3,452,856, 7-1-69, Cl. 198-76.
Brittain, Frank Eustace, to Girling Limited. Tubular housing structures. 3,442,182, 5-6-69, Cl. 92-99.
Brittain, Frank Eustace, to Girling Limited. Permanently coupled assemblies. 3,479,068, 11-18-69, Cl. 285-321.
Brittan, John L. Gradematic computer for averaging a plurality of grades. 3,470,368, 9-30-69, Cl. 235-193.
Brittan, Kenneth Walter, to Triplex Safety Glass Company Limited. Laminated transparent panels incorporating heating wires. 3,440,408, 4-22-69, Cl. 219-522.
Brittan, Kenneth Walter; and Speakman, Frank P., to Pye Limited. Flame ionisation detectors. 3,473,895, 10-21-69, Cl. 23-254.
Britten, George C., to Ilikon Corporation. Method of fabricating shell type polystyrene articles. 3,426,108, 2-4-69, Cl. 264-21.
Britten-Norman Limited: *See—*
Winter, Peter H., 3,468,394.
Winter, Peter Heron, 3,463,263.
Winter, Peter Heron, 3,468,395.
Brittingham, Geoffrey Joynt. Furnace for continuous treatment of sulphide copper ores. 3,460,817, 8-12-69, Cl. 266-11.
Britton, Harold George; and Hague, Billy, to Imperial Chemical Industries Limited. Gas-liquid contact unit. 3,475,012, 10-28-69, Cl. 261-112.
Britton, Harrison J., to Alloy Steel Products Co. Torsional rotational valve seal construction. 3,434,693, 3-25-69, Cl. 251-203.
Britton, Richard B.; Robins, Kenneth E.; and Sampson, William B., to United States of America, Atomic Energy Commission. Superconductor ribbon. 3,432,783, 3-11-69, Cl. 335-216.
Britton, Richard B.: *See—*
Sampson, William B.; Britton, Richard B.; Kruger, P. Gerald; and Beth, Richard A.,3,423,706.
Britton, Richard K.; Christopher, John P.; Vegella, John S.; and Neuss, William H., to Borden, Inc. Adhesive composition. 3,484,338, 12-16-69, Cl. 161--216
Britton, Robert A., to Massachusetts Institute of Technology. Treatment of a film of cellulose to introduce amino groups and production of non-thrombogenic surfaces on such treated cellulose films. 3,475,410, 10-28-69, Cl. 260-212.
Britton, Thomas M., Jr.: *See—*
Stencel, Fred B.; and Britton, Thomas M., Jr.,3,447,769.
Britz, Amelia: *See—*
Natta, Giulio; Chini, Paolo; Mazzanti, Giorgio; and Britz, Amelia,3,448,083.
Britzke, Ingo: *See—*
Erb, Gerhard; and Britzke, Ingo,3,484,993.
Brixner, Lothar H., to Du Pont de Nemours, E. I., and Company. Process for the production of red, transparent αFE_2O_3 flakes. 3,471,258, 10-7-69, Cl. 23-200.
Brixner, Lothar H., to Du Pont de Nemours, E. I., and Company. Ferroelectric ceramic compositions. 3,472,777, 10-14-69, Cl. 252-62.9
Brizzolara, Henry M., to Atlas Chemical Industries, Inc. Reefing line cutter. 3,452,631, 7-1-69, Cl. 83-444.
Brizzolara, Henry M., to Atlas Chemical Industries, Inc. Cutting tool. 3,482,484, 12-9-69, Cl. 89-1.
Broad, Charles, Jr., to International Harvester Company. Air restriction gauge. 3,425,385, 2-4-69, Cl. 116-70.
Broad, David Rex: *See—*
Barber, Michael; Broad, David Rex; and Heywood, Basil Jason,3,468,899.
Barber, Michael Stuart; Broad, David Rex; and Heywood, Basil Jason,3,427,318.
Chadwick, Francis Neville; Broad, David; and Boutle, David Leonard,3,475,762.
Broadbent, David J.: *See—*
Fancher, Llewellyn W.; and Broadbent, David J.,3,420,918.
Szabo, Karoly; Fancher, Llewellyn W.; and Broadbent, David J.,3,446,896.
Tilles, Harry; and Broadbent, David J.,3,487,151.
Broadbent, John L.; Bowden, Kenneth; and Ross, William James, to Smith, Kline & French Laboratories. 2,4-diloweralkanoyl phloroglucinol derivatives. 3,467,715, 9-16-69, Cl. 260-592.
Broadbent, Kent D.: *See—*
Johnson, Keith O.; and Broadbent, Kent D.,3,466,483.
Broadbent, Norman; and Read, Kenneth G., to Canadian Marconi Company. Dual range VHF receiver. 3,435,348, 3-25-69, Cl. 325-453.
Broadbent, Peter Jack, to National Research Development Corporation. Recording and/or control of the feeding or livestock. 3,465,724, 9-9-69, Cl. 119-51.
Broadbent, Thomas, & Sons Limited: *See—*
Couch, Francis Hartley, 3,459,308.
Broadcast Electronics, Inc.: *See—*
Beville, Ross H.; and Schober, Wayne E., 3,425,609.
Beville, Ross H.; Schor, Wayne E.; and Durst, David R., 3,432,082.
Broadhead, James H.; and Hamilton, James E. Apparatus for sealing pipe from within. 3,474,832, 10-28-69, Cl. 138-97.
Broadhead, Ronald L.; and Dunlop, William R., to Richardson Company, The. Use of reactive lignocellulose as additive for epoxy resins. 3,422,041, 1-14-69, Cl. 260-9.
Broadhead, Ronald L.; and Dunlop, William R., to Richardson Company, The. Phenolic agent-acid catalyst modified lignocelluose derivative and process. 3,441,527, 4-29-69, Cl. 260-17.2
Broadhead, Ronald L.; and Timmons, Frederick D., to Richardson Company, The. Polyamines containing ether oxygen linkages. 3,448,154, 6-3-69, Cl. 260-584.
Broadhead, Ronald.; and Dunlop, William R., to Richardson Company, The. Process of forming cellulosic fiber products containing a resinous lignocellulose derivative. 3,463,699, 8-26-69, Cl. 162-163.
Broadhead, Samuel L., Jr. Reference oscillator and VC0 loop controlled D.C. regulator. 3,445,754, 5-20-69, Cl. 323-45.
Broadhurst, Charles J. Method of reinforcing perforations in paper. 3,479,203, 11-18-69, Cl. 117-44.
Broadley, Robert D., to Allied Chemical Corporation. Fluorinated hydrocarbon compositions. 3,470,101, 9-30-69, Cl. 252-67.
Broadview Chemical Corporation: *See—*
Rai, Charanjit; and Krueger, Arthur Frederic, 3,454,543.
Broadway Research & Development Corporation: *See—*
Lowe, John C., 3,434,968.
Broadwin, Samuel M. Method for testing moisture content of a product. 3,463,000, 8-26-69, Cl. 73-76.
Broadwin, Samuel M. Appliance for brewing a beverage with distilled water. 3,472,152, 10-14-69, Cl. 99-293.
Brocato, Robert A. Musical instruments with strings parallel to keyboard and operated by the feet. 3,443,470, 5-13-69, Cl. 84-426.
Brocher, Eric: *See—*
Chevalley, Jean-Louis, 3,432,692.
Brocher, Eric. Method of and apparatus for heating a fluid by means of an auxiliary fluid at high pressure. 3,436,567, 4-1-69, Cl. 310-11.
Brochetti, Raymond E. Injection molding machine with automatic unloading drive. 3,484,902, 12-23-69, Cl. 18-30.
Brochhagen, Franzkarl: *See—*
Windemuth, Erwin; and Brochhagen, Franzkarl,3,450,648.
Brociner, Ronald Eric, to English Clays Lovering Pochin & Company Limited. Treatment of clay. 3,464,634, 9-2-69, Cl. 241-4.
Brock, Aaron T., to Dart Industries Inc. Inhalation-actuated aerosol dispensing device. 3,456,645, 7-22-69, Cl. 128-173.
Brock, Elwood M., to Hunterdon Transformer Company. Toroidal inductor. 3,465,273, 9-2-69, Cl. 336-62.
Brock, Eugene W., to General Motors Corporation. Head lamp lighting circuit with a time delay shut off and a switch position warning indicator. 3,476,975, 11-4-69, Cl. 315-83.
Brock, Fred A.; and Johnston, Roy C., to Texas Instruments, Incorporated. Control of energy spectrum in marine seismic exploration. 3,437,170, 4-8-69, Cl. 181-0.5

Brock, George W., to Schlumberger Technology Corporation. Electrical methods and apparatus for well tools. 3,427,580, 2-11-69, Cl. 340-18.
Brock, George W., to Schlumberger Technology Corporation. Power supply system for well logging. 3,459,956, 8-5-69, Cl. 307-22.
Brock, James A.; Hughes, Robert H.; and Downs, Edgar S., to Butler Manufacturing Company. Gas burner for heating moving air. 3,462,133, 8-19-69, Cl. 263-19.
Brock, Louise Murphy. Device to aid in the teaching of reading. 3,442,030, 5-6-69, Cl. 35-35.
Brock, Norbert: *See—*
Vogelsang, Dietrich; Brock, Norbert; and Lenke, Hans-Dieter,3,472,836.
Brock, Randall D. Stretcher. 3,449,776, 6-17-69, Cl. 5-82.
Brock, Randall D., 1/3 to Vitatoe, Welby, and 1/3 to Williams, Glen W. Door lock light. 3,478,199, 11-11-69, Cl. 240-2.13
Brock, Wayne C. Concrete insulation blanket. 3,420,022, 1-7-69, Cl. 52-302.
Brockbank, Lucas T. Automatic safety system and thermal sensor for heating systems. 3,469,569, 9-30-69, Cl. 126-116.
Brockett, Halford E.: *See—*
Dorn, Henry J.; and Brockett, Halford E.,3,465,907.
Brockett, Peter C., to Laboratory for Electronics, Inc. Traffic actuated control system. 3,464,059, 8-26-69, Cl. 340-37.
Brockhage, Donald J., 1/2 to Caselli, Orland J. Lift-tab crown cap. 3,425,580, 2-4-69, Cl. 215-46.
Brockhaus, Gehard; Leonhardt, Gunter; and Weber, Heinz, to Calor-Emag Elektrizitats-Aktiengesellschaft. Movable piston means for retaining fluid in electrical coupling device. 3,461,257, 8-12-69, Cl. 200-150.
Brockhaus, Rudolf, to Chemische Werke Huls Aktiengesellschaft. Preparation of acetic acid by catalytic gas-phase oxidation of butenes. 3,431,297, 3-4-69, Cl. 260-533.
Brockhaus, Rudolf, to Chemische Werke Huls Aktiengesellschaft. Process for the production of acetic acid by catalytic gas-phase oxidation of η-butenes. 3,439,029, 4-15-69, Cl. 260-533.
Brockhaus, Rudolf; and Berger, Erich, to Chemische Werke Huls Aktiengesellschaft. Process for the production of acetic acid by catalytic gas-phase oxidation of butenes. 3,459,797, 8-5-69, Cl. 260-533.
Brockhaus, Siegfried. Device for measuring the density of a fluid. 3,456,491, 7-22-69, Cl. 73-32.
Brockman, Arthur M.: *See—*
Barton, Robert W.; and Brockman, Arthur M.,3,453,675.
Brockman, Lyle, to General Signal Corporation. Highway crossing signal control system. 3,422,262, 1-14-69, Cl. 246-130.
Brockmann, Hans-Jurgen, to Philips Corporation, mesne. Color television display device. 3,440,479, 4-22-69, Cl. 315-13.
Brockmuller, Friedrich Franz, to Windmoller & Holscher. Valved bag having side gussets and made from plastics material sheeting. 3,441,199, 4-29-69, Cl. 229-62.5
Brockmuller, Friedrich Franz, to Windmoller & Holscher. Inking system provided with a tub for high-speed flexographic printing machines. 3,468,251, 9-23-69, Cl. 101-350.
Brockmuller, Friedrich Franz, to Windmoller & Holscher. Process of manufacturing valved bags having side gussets from webs of plastic sheet material. 3,472,130, 10-14-69, Cl. 93-35.
Brockmuller, Wolfgang; Hartlapp, Gerhard; and Weizenkorn, Horst-Heinrich, to Knapsack Aktiengesellschaft. Process for the manufacture of condensed alkali metal phosphates. 3,433,585, 3-18-69, Cl. 23-106.
Brockway, Dennis V., to Bell Telephone Laboratories, Incorporated. Thyrstor switch utilizing diodes to improve recovery time. 3,444,398, 5-13-69, Cl. 307-305.
Brockway Glass Company, Inc.: *See—*
Jaeger, Benjamin E., 3,425,343.
Jaeger, Benjamin E., 3,425,344.
Le Blanc, John R., 3,463,626.
Le Blanc, John R., 3,463,627.
Brockway, Wilhelm W. Solenoid operated impulse relay. 3,428,924, 2-18-69, Cl. 335-196.
Brockway, Wilhelm W. School building with exchangeable annex unit. 3,452,492, 7-1-69, Cl. 52-64.
Broder, Jacob: *See—*
Mandelkorn, Joseph; and Broder, Jacob,3,434,885.
Broderick, David C., to United States of America, Army, mesne. Strip hybrid power divider. 3,443,248, 5-6-69, Cl. 333-11.
Broderick, Donald L.: *See—*
Sanders, Ray W.; Broderick, Donald L.; and Curl, Garold W.,3,486,118.
Broderick, Edward: *See—*
Osborn, Stephen W.; Broderick, Edward; and Villa, Jose L.,3,426,039.
Broderick, James C.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,318.
Broderick, John P.; and Wishnie, Frederick T., to Eutectic Welding Alloys Corporation. Protective shield for a flame spraying torch. 3,430,862, 3-4-69, Cl. 239-280.
Broderick, John W.; Florenza, Robert M.; Kozar, Michael; and Lineman, Harry L. Electrical component tester with preferential sorting. 3,472,376, 10-14-69, Cl. 209-75.
Broderick, William J.; Frasier, Carlton R.; Hittel, Lorenz A.; Hope, George R., Jr.; Porcelli, Ernest J.; and Rakoczi, Laszlo L., to General Electric Company. Apparatus providing inter-processor communication in a multicomputer system. 3,483,520, 12-9-69, Cl. 340-172.5
Broderna Akessons Maskenfabrik AB: *See—*
Andreasson, Sven Ake, 3,456,297.
Broderson, Dean E., to Lewis Knitting Company. Hydraulic circuit for mobile hydraulic hammer. 3,442,338, 5-6-69, Cl. 173-86.
Brodeur, Lester R.: *See—*
Ludwig, David R.; and Brodeur, Lester R.,3,443,205.
Brodie, George R., to Motter, John C., Printing Press Co. Blade-setting mechanism. 3,456,585, 7-22-69, Cl. 101-365.
Brodie, George R., to Motter, John C., Printing Press Co. Printing press plate cylinder lockup. 3,456,588, 7-22-69, Cl. 101-415.1
Brodkorb, Ernst; and Scherer, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for automatic colorimetric titration. 3,481,707, 12-2-69, Cl. 23-253.
Brodrene Gram A/S: *See—*
Gram, Hans, 3,483,712.
Brodsky, Benjamin; and Corini, Louis J., to Progressive Metal Equipment, Inc., (a/k/a Progressive Metal Equipment Incorporated). Liquid dispenser with timer control. 3,445,039, 5-20-69, Cl. 222-70.
Brodsky, Ralph Howard. X-ray film illuminator. 3,478,453, 11-18-69, Cl. 40-106.1
Brodt, Rudolf: *See—*
Henkler, Herbert; Wilhelm, Hans; Floss, Josef Georg; Strehler, Hugo; and Brodt, Rudolf,3,486,903.
Brody, Arthur. Method of making pocket-forming device for library cards. 3,424,636, 1-28-69, Cl. 156-201.
Brody, Lee; and Hill, William H., to Hughes Aircraft Company. Force gauge. 3,449,949, 6-17-69, Cl. 73-141.
Brody, Leo L.; and Atkinson, Wallace E., to Trojan Luggage Company, The, mesne. Luggage lock. 3,464,240, 9-2-69, Cl. 70-71.
Broeckl, Heinz Wilhelm; and Freudenschuss, Otto, to Vockenhuber, Karl, and Hauser, Raimund. Cartridge for striplike record carrier and apparatus for handling striplike record carrier. 3,464,765, 9-2-69, Cl. 352-72.
Broeker, Elmer W.; and Pearce, Shairyl I., to Caterpillar Tractor Company. Safety override for hydraulic cable control unit. 3,433,017, 3-18-69, Cl. 60-52.
Broeker, Elmer W.; Pearce, Shairyl I.; and Rohweder, Gerald D., to Caterpillar Tractor Company. Transmission and brake for cable drum with modulating valve. 3,463,278, 8-26-69, Cl. 192-4.
Broekhuysen, William C., to G-V Controls Inc. Automatic dialing apparatus. 3,440,357, 4-22-69, Cl. 179-90.
Broekhuysen, William C., to G-V Controls Inc. Electronic timer. 3,440,450, 4-22-69, Cl. 307-293.
Broel-Plater, Andrzej: *See—*
Radziwill, Maciej; and Broel-Plater, Andrzej,3,450,107.
Broen Armatur I/S: *See—*
Katva, Ilmari, 3,459,223.
Broering, Leo H.: *See—*
Seibel, George L.; and Broering, Leo H.,3,449,453.
Broerman, Arthur B., to Phillips Petroleum Company. Pressure vessels. 3,426,940, 2-11-69, Cl. 220-83.
Broerman, Arthur B., to Phillips Petroleum Company. Containers. 3,452,506, 7-1-69, Cl. 53-29.
Broerman, Arthur B.: *See—*
Smith, Dexter E.; Broerman, Arthur B.; and Keeler, Robert M.,3,450,800.
Broers, Alec N., to International Business Machines Corporation. Holder for highly reactive cathodes of rare-earth borides such as lanthanum hexaboride the holder provided which a cooling means opposite to the emissive end of the cathode in order to reduce tendency of holder deterioration. 3,462,635, 8-19-69, Cl. 313-311.
Broersma, Robert J., to B & B Engineering Company. Packing machine for nursery stock. 3,426,359, 2-4-69, Cl. 53-124.
Broersma, Robert J., to Royer Foundry and Machine Co., mesne. Half shell. 3,450,036, 6-17-69, Cl. 100-232.
Broersma, Robert J., to Royer Foundry and Machine Co., mesne. Packaging device having a fixed center, sliding split cover. 3,469,366, 9-30-69, Cl. 53-124.
Broersma, Robert J.; and Suits, Scott O., to Royer Foundry and Machine Co., mesne. Nursery stock packing device. 3,455,084, 7-15-69, Cl. 53-124.
Broetzler, Gustav A., to Coca-Cola Bottling Works Company, The. Universal bottle capping throat. 3,425,187, 2-4-69, Cl. 53-344.
Broft, Eduard: *See—*
Wilm, Diederich; Flasskamp, Willi; Broft, Eduard; and Jordan, Kurt,3,473,300.
Brogan, Francis A., to United States of America, Air Force. Waveform generator with audio tone control. 3,464,030, 8-26-69, Cl. 332-3.

Brogan, Thomas R.; and Powers, William E., Jr., to United States of America, Air Force. Magnetohydrodynamic motor-generator. 3,436,918, 48-69, Cl. 60-202.
Broggie, Roger E.; and Gurr, Robert H., to Wed Enterprises, Inc. Passenger-carrying apparatus. 3,467,026, 9-16-69, Cl. 105-341.
Broghammer, Anton. Hinge or ride for doors or windows. 3,421,177, 1-14-69, Cl. 16-128.
Brohl, Walter. Ship's rudder. 3,467,045, 9-16-69, Cl. 114-167.
Brohult, Astrid Helena; Brohult, Sven Fritiof Abraham; Hallgren, Bo Erik; and Brohult, Johan Axel, to Aktiebolaget Astra. Oral alkyl glycerol ether improvement in radiation, radiomimetic, or cytostatic tumor therapies. 3,432,602, 3-11-69, Cl. 424-307.
Brohult, Johan Axel: *See*—
Brohult, Astrid Helena; Brohult, Sven Fritiof Abraham; Hallgren, Bo Erik; and Brohult, Johan Axel,3,432,602.
Brohult, Sven Fritiof Abraham: *See*—
Brohult, Astrid Helena; Brohult, Sven Fritiof Abraham; Hallgren, Bo Erik; and Brohult, Johan Axel,3,432,602.
Broida, Daniel: *See*—
Berger, Louis; Broida, Daniel; and Bressler, Leo F.,3,485,724.
Broida, Daniel, to Sigma Chemical Company. Insect transporting package. 3,468,289, 9-23-69, Cl. 119-15.
Brois, Stanley J., to Esso Research and Engineering Company. Nematocidal use of tris-ammonium dithiophosphate. 3,449,491, 6-10-69, Cl. 424-128.
Brois, Stanley J., to Esso Research and Engineering Company. Herbicidal aminohydrins. 3,464,811, 9-2-69, Cl. 71-88.
Brois, Stanley J., to Esso Research and Engineering Company. Preparation of 2-aminoethylthiosulfates by reaction of thiosulfuric acid with an aziridine. 3,468,925, 9-23-69, Cl. 260-453.
Brois, Stanley J., to Esso Research and Engineering Company. S-(2-aminoethyl)dithiophosphates and process for the preparation thereof. 3,476,833, 11-4-69, Cl. 260-925.
Broise, Yvon Marie-Xavier, 1/2 to Thorley, Alan. Testing probe for soils. 3,442,123, 5-6-69, Cl. 73-151.
Broise, Yvon Marie-Xavier; and Thorley, Alan. Testing probe for soils. 3,442,122, 5-6-69, Cl. 73-151.
Brok, Wilhelm Frederik: *See*—
Van Duuren, Hendrik Cornelis Anthony; Da Silva, Herman; and Brok, Wilhelm Frederik,3,457,373.
Broken Hill Proprietary Company Limited, The: *See*—
Urane, David, 3,433,628.
Brokke, Mervin E.: *See*—
Baker, Don R.; Brokke, Mervin E.; and McClellan, Malcolm B.,3,472,927.
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arkneklev, Duane R., to Stauffer Chemical Company. Amine-phosphorus pentafluoride complexes as herbicides. 3,420,655, 1-7-69, Cl. 71-86.
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arneklev, Duane R., to Stauffer Chemical Company. PF_5 adducts of certain substituted acetamides. 3,435,043, 3-25-69, Cl. 260-294.7
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arneklev, Duane R., to Stauffer Chemical Company. Furyl ketoxime and furaldoxime- phosphorus pentafluoride complexes. 3,449,374, 6-10-69, Cl. 260-347.7
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arneklov, Duane R., to Stauffer Chemical Company. Complexes of phosphorus pentafluoride oximes as herbicides. 3,455,674, 7-15-69, Cl. 71-86.
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Jarneklev, Duane R., to Stauffer Chemical Company. Complex addition products of phosphorus pentafluroide and substituted nitriles. 3,438,983, 4-15-69, Cl. 260-247.
Brolin, Stephen J., to Bell Telephone Laboratories, Incorporated. Delta modulation system with continuously variable compounder. 3,461,244, 8-12-69, Cl. 179-15.
Broling, Keith W., to Portec, Inc., mesne. Flexible tie down for flat lading and quick release therefor. 3,426,996, 2-11-69, Cl. 248-361.
Broll, Gunter; and Kopp, Gerhard, to Entwicklungsring Sud GmbH. Airframe-integrated nozzle for aircraft. 3,467,315, 9-16-69, Cl. 239-265.35
Brollo, Giuseppe. Machine with self-centering rotating basket for washing dishes and utensils. 3,430,638, 3-4-69, Cl. 134-112.
Brolund, Theodore F., to Whitney, W. A., Manufacturing Company. Shearing press with interchangeable tool cartridges. 3,452,632, 7-1-69, Cl. 83-549.
Brolund, Theodore F., to Whitney, W. A., Corporation. Press with fluid-operated actuator. 3,469,487, 9-30-69, Cl. 83-527.
Brolund, Theodore F., to Whitney, W. A., Manufacturing Company. Machine for operating on sheet material. 3,485,131, 12-23-69, Cl. 83-560.
Brom, Lawrence V.: *See*—
Lewis, Philip W.; Zitzelman, Karl; and Brom, Lawrence V.,3,450,347.
Bromberg, Boris Moisfevich; Gauzner, Moisei Yakovlevich; Ljutsin, Ilya Samuilovich; and Nadel, Moisei Simonovich. Spindle head of machine. 3,435,714, 4-1-69, Cl. 77-3.
Bromberg, Robert; and Romie, Fred E., to TRW Inc. Method of and means for increasing the heat transfer capability of a heat pipe. 3,465,813, 9-9-69, Cl. 165-1.
Brome, B. O., and said Vaughan assor of 25% to Richardson, J. C., Jr. and Smith, James F., Jr.: *See*—
Stroud, Herbert O.; and Vaughan, Carroll P., 3,451,757.
Bromer, Heinz; and Meinert, Norbert, to Leitz, Ernst, G.m.b.H. Optical crown glasses. 3,451,829, 6-24-69, Cl. 106-47.
Bromer, Heinz; and Meinert, Norbert, to Leitz, Ernst, G.m.b.H. Heavy flint glasses. 3,477,863, 11-11-69, Cl. 106-54.
Bromer, Heinz; and Meinert, Norbert, to Leitz, Ernst, G.m.b.H. Optical glass. 3,486,915, 12-30-69, Cl. 106-54.
Bromer, Heinz; Meinert, Norbert; and Ahl, Demetrius, to Leitz, Ernst, G.m.b.H. Optical flint glasses. 3,446,638, 5-27-69, Cl. 106-52.
Bromer, William W.; Hoehn, Marvin M.; and McGuire, James M., to Lilly, Eli, and Company. Antibiotic A195 and process for the preparation thereof. 3,467,751, 9-16-69, Cl. 424-119.
Bromley, Kenneth W., to United States Steel Corporation, mesne. Blanks for ready erection into box-like containers. 3,446,415, 5-27-69, Cl. 229-30.
Bron Electronics, Incorporated: *See*—
O'Neill, Thomas F., Jr., 3,469,689.
Bron, Walter E.; Dreyfus, Russell W.; and Heller, William R., to International Business Machines Corporation. Memory device and method using dichroic defects. 3,466,616, 9-9-69, Cl. 340-173.
Bron, Walter E.; Heller, William R.; and Welber, Benjamin, to International Business Machines Corporation. Memory device and method of information handling utilizing charge transfer between rare earth ions. 3,452,332, 6-24-69, Cl. 340-173.
Brondum, Hazel: *See*—
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Brondum, Hazel S.,: *See*—
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Bronfin, Barry R., to United States of America, Navy. Method of preparing compounds which contain a nitrogen-fluorine bond. 3,453,080, 7-1-69, Cl. 23-205.
Broniewski, Bodhan; and Warszawski, Bernard, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Air-cushion supported, high-speed vehicle for operation on a support and guide track. 3,467,024, 9-16-69, Cl. 104-134.
Bronner, George: *See*—
Murray, John G.; Simon, Ellis D.; Bronner, George; and Edmonds, George D.,3,475,620.
Bronnert, Helmut: *See*—
Paule, Kurt; Bleicher, Manfred; Martin, Hans; Wanner, Karl; Bronnert, Helmut; and Koehler, Heinrich,3,456,740.
Bronnert, Helmut, to Metabowerke KG., Closs, Rauch & Schnizler. Rotary percussive power tool with changeable drive. 3,463,246, 8-26-69, Cl. 173-47.
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C., to North American Philips Company, Inc. Method of joining a semiconductor to a base. 3,432,913, 3-18-69, Cl. 29-472.7
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C., to U.S. Philips Corporation. Hermetic electrical lead-in assembly. 3,464,725, 9-2-69, Cl. 287-189.365
Bronnvall, Wolfgang; and Andreassen, Jostein, to Allmanna Svenska Elektriska Aktiebolaget. Method of manufacturing an insulated electrical conductor. 3,470,045, 9-30-69, Cl. 156-53.
Bronoel, Guy G.: *See*—
Bonnemay, Maurice M.; Bronoel, Guy G.; Levart, Eugene; and Doniat, Denis,3,484,292.
Bronson, Agalite, Company: *See*—
Casebolt, Ralph T.; and Rystad, Arnold O., 3,481,572.
Bronstein, Jesse B., Jr., to Commercial Solvents Corporation, mesne. Process of blasting with thickened slurried inorganic oxidizer salt-alcohol-water explosive mixtures. 3,465,675, 9-9-69, Cl. 102-23.
Bronstein, Jesse B., Jr., to Commercial Solvents Corporation, mesne. Method of making polymethylolalkane mixtures. 3,478,115, 11-11-69, Cl. 260-635.
Bronstein, Leonard. Fused multifocal corneal contact lenses. 3,472,581, 10-14-69, Cl. 351-161.
Bronstien, Edward L., Jr.; Akerson, David W.; Gaffney, Bernard J.; and Fisher, Richard A., 50% to United States Bedding Company, The, and Wood Conversion Company. Production of cushion and mattress constructions. 3,429,767, 2-25-69, Cl. 161-43.
Bronstien, Edward L., Jr.; Fisher, Richard A.; and Gold, Gorge, 50% to United States Bedding Company, The, and 50% to Wood Conversion Company. System for the production of mattress and cushion constructions. 3,449,190, 6-10-69, Cl. 156-250.
Brook, Brian Neville: *See*—
Knight, Colin Sutherland; Reimer, Alexander Claude; Weaver, Victor Charles; and Brook, Brian Neville,3,446,794.
Brook, John Edwin. Electric motor control circuit. 3,466,523, 9-9-69, Cl. 318-332.
Brook, Richard J.; and Kingery, William D., to United States of America, Atomic Energy Commission. Method of making paramagnetic nickel ferrite thin films. 3,475,309, 10-28-69, Cl. 204-192.

Brooke, Donald C.; and Albert, Irwin, to Westinghouse Electric Corporation. Voltage regulated direct view storage tube precollimation system. 3,459,990, 8-5-69, Cl. 315-14.
Brooke, Donald C.: *See—*
Carnahan, Paul E.; and Brooke, Donald C.,3,433,996.
Brooke, Godfrey: *See—*
Cowell, Terence K., 3,468,302.
Brooke, Thomas Andrew; and Robinson, Peter Michael, to Dunlop Rubber Company Limited. Manufacture of sheet material. 3,471,352, 10-7-69, Cl. 156-272.
Brooker, Carl F.: *See—*
Shepard, George A.; and Brooker, Carl F.,3,438,754.
Brooker, Leslie G. S.; and Van Lare, Earl J., to Eastman Kodak Company. Cyanine dyes. 3,431,111, 3-4-69, Cl. 96-106.
Brooker, Leslie G. S.: *See—*
Fumia, Arthur, Jr.; Heseltine, Donald W.; and Brooker, Leslie G. S.,3,482,978.
Holtzclaw, John V.; and Brooker, Leslie G. S.,3,440,053.
Jenkins, Philip Winder; and Brooker, Leslie G. S.,3,483,196.
Brooker, Peter John; Gillon, John; Newbold, Geoffrey Tattersall; and Saggers, David Thomas, to Fisons Pest Control Limited. N-methyl 3-methyl-5-ethyl phenyl carbamate as an insecticide. 3,422,198, 1-14-69, Cl. 424-300.
Brookes, Robert Frederick; Godson, David Henry; and Leafe, Edward Levi, to Boots Pure Drug Company Limited. Alpha-(4-chloro-2-methylphenoxy) propionanilides. 3,439,018, 4-15-69, Cl. 260-471.
Brookes, William R., to General Electric Company. Process for preparing resinous condensation compositions by reacting a methyloated spaced polyphenol with a monohydric phenol and then reacting the resultant product with aldehyde. 3,438,939, 4-15-69, Cl. 260-57.
Brookhyser, Byron B.: *See—*
Blickenderfer, Charles; Brookhyser, Byron B.; and Schliewe, Robert,3,456,774.
Brookman, Ronald R.: *See—*
Bennett, James Russell; and Brookman, Ronald R.,3,482,213.
Brookmire, James L., to General Electric Company. Alternating current regulating apparatus with closed-loop feedback control. 3,465,237, 9-2-69, Cl. 323-21.
Brookpark-Royalon, Inc.: *See—*
Boenig, Herman V.; and Waters, James A., Jr., 3,464,884.
Brooks & Perkins, Incorporated: *See—*
Craighead, Philip B.; and Naffa, Faisal A., 3,449,872.
Snow, Conley H., 3,425,269.
Snow, Conley H., 3,456,919.
Brooks, Alan C. Hydraulic control cylinder and air piston assembly. 3,424,061, 1-28-69, Cl. 92-12.
Brooks, Alden W.; Bishop, Clinton L.; Thomas, James R.; and Richard, Kenneth D., to Dayco Corporation. Method of making endless V-type transmission belts having inwardly disposed transverse teeth. 3,464,875, 9-2-69, Cl. 156-138.
Brooks, Alden W.: *See—*
Waugh, Dale L.; Brooks, Alden W.; Jensen, Howard J.; and Richmond, Kenneth D.,3,478,613.
Brooks, Arthur M., to Grace, W. R., & Co.Coprecipitated $CaHPO_4$-$2H_2O$ and $CaSO_4$-$2H_2O$ pigment and method of preparation. 3,445,259, 5-20-69, Cl. 106-306.
Brooks, Arthur M., to Grace, W. R., & Co. Process for bleaching wood pulp with fluorine, hydrofluoric acid, and oxygen difluoride. 3,481,826, 12-2-69, Cl. 162-63.
Brooks, Arthur M., to Grace, W. R., & Co. Process for bleaching wood pulp with fluorine, hydrofluoric acid, and oxygen difluoride. 3,481,827, 12-2-69, Cl. 162-63.
Brooks, Burton: *See—*
Brooks, Richard J.; and Brooks, Burton,3,427,342.
Brooks, Charles; and Sutton, Thomas A. Reinforced vinyl plastic stripping. 3,436,297, 4-1-69, Cl. 161-119.
Brooks, Chester E.; Henry, James L.; Linhart, Peter B.; Markthaler, Grace E.; Massoni, Donald R.; and Meyerle, John A., to Bell Telephone Laboratories, Incorporated. Intra-concentrator call detecting circuit. 3,462,557, 8-19-69, Cl. 179-18.
Brooks, Chester E.; Henry, James L.; and Meyerle, John A., to Bell Telephone Laboratories, Incorporated. Circuit and method for testing complex systems. 3,435,159, 3-25-69, Cl. 179-175.2
Brooks, David N.; and Harris, Joseph M., to Sylvania Electric Products, Inc. Projector lamp assembly. 3,445,646, 5-20-69, Cl. 240-44.2
Brooks, Dean P., to Hesston Corporation, Inc. Double post row finder. 3,430,723, 3-4-69, Cl. 180-79.
Brooks, Donald G. Internal combustion engine valve means. 3,424,139, 1-28-69, Cl. 123-79.
Brooks, Dugald A., to Eastman Kodak Company. Mordants for bleachable filter layers. 3,425,834, 2-4-69, Cl. 96-84.
Brooks, Dugald A., to Eastman Kodak Company. Supersensitized silver halide emulsions. 3,458,318, 7-29-69, Cl. 96-104.
Brooks, Dugald A.: *See—*
Heseltine, Donald W.; and Brooks, Dugald A.,3,438,779.
Heseltine, Donald W.; and Brooks, Dugald A.,3,455,693.
Taber, Robert C.; and Brooks, Dugald A.,3,425,833.
Brooks, E. J., Company: *See—*
Moberg, Sigurd M., 3,466,077.
Moberg, Sigurd M., 3,467,427.
Moberg, Sigurd M., 3,485,521.
Brooks, Elgin C.: *See—*
Allen, Horace E.; Doermann, Edward L.; and Brooks, Elgin C.,3,481,593.
Brooks, Ernest J. Practice device for golfers. 3,443,811, 5-13-69, Cl. 273-183.
Brooks, Everett G.; and McCullough, John W., to International Business Machines Corporation. Analog to digital converter. 3,471,853, 10-7-69, Cl. 340-347.
Brooks, Felton D. Security apparatus. 3,451,708, 6-24-69, Cl. 292-264.
Brooks, Fred A., Jr.: *See—*
Gidley, John L.; Terry, William M.; and Brooks, Fred A., Jr.,3,481,403.
McDougall, Lee A.; and Brooks, Fred A., Jr.,3,456,735.
Brooks, George M., to Jerrold Electronics Corporation, mesne. Constant pressure probe for non-linear potentiometers. 3,484,733, 12-16-69, Cl. 338-168.
Brooks, James; Heap, Kenneth Thomas Duncan; and Woodhead, Robert Harry. Textile sliver coiling apparatus. 3,462,800, 8-26-69, Cl. 19-159.
Brooks, Jerry R. Gearless variable drive mechanism. 3,448,627, 6-10-69, Cl. 74-117.
Brooks, John D., to United States of America, Navy. Fin and revolving cylinder bidirectional steering actuator. 3,448,714, 6-10-69, Cl. 114-162.
Brooks, John G.: *See—*
Schoenbaum, Alexander W.; Ashworth, John T.; and Brooks, John G.,3,428,053.
Brooks, John H.: *See—*
Barr, Edward J.; and Brooks, John H.,3,441,010.
Brooks, John M.: *See—*
Purcell, John R.; and Brooks, John M.,3,428,891.
Brooks, Kenneth R., to Ford Motor Company. Fuel vapor emission control. 3,486,524, 12-30-69, Cl. 137-389.
Brooks, Leonard. Bow holder. 3,441,241, 4-29-69, Cl. 248-156.
Brooks, Leslie John; and Morris, Geoffrey William, to Rolls-Royce Limited. Gas turbine engine. 3,422,624, 1-21-69, Cl. 60-226.
Brooks, Louie J., Jr. Auxiliary brake system. 3,463,276, 8-26-69, Cl. 188-106.
Brooks, Malcolm R. H., to Celanese Corporation. Tire cord constructions and tires made therewith. 3,429,354, 2-25-69, Cl. 152-357.
Brooks, Marvin V., to PPG Industries, Inc. Door construction. 3,458,955, 8-5-69, Cl. 49-382.
Brooks, Marvin V., to PPG Industries, Inc. Door pivots. 3,478,383, 11-18-69, Cl. 16-151.
Brooks, Max: *See—*
Grosbard, Gregory, 3,480,811.
Brooks, Owen E.; and Nubel, Robert C., to Pfizer, Chas., & Co., Inc. Gas liquid transfer apparatus. 3,476,366, 11-4-69, Cl. 261-36.
Brooks, Parkman T., to United States of America, Interior. Preparation of high-purity nickel and cobalt. 3,446,720, 5-27-69, Cl. 204-112.
Brooks, Peter J.: *See—*
Jackson, Roy J.; and Brooks, Peter J.,3,427,895.
Brooks, Ralph C.; and Olson, Paul E., to Westinghouse Air Brake Company. Automatic control apparatus for variable pitch propellers. 3,443,587, 5-13-69, Cl. 137-596.18
Brooks, Ralph E. Method and apparatus for producing metal castings using molten metal cooled before teeming. 3,429,361, 2-25-69, Cl. 164-57.
Brooks, Ray G., to Texize Chemicals, Inc. Dispensing device. 3,478,935, 11-18-69, Cl. 222-321.
Brooks, Richard J.; and Brooks, Burton, to Chemithon Corporation, The. Continuous sulfonation process. 3,427,342, 2-11-69, Cl. 260-458.
Brooks, Robert A.: *See—*
Luksch, James A.; Dolan, Lawrence C.; Brooks, Robert A.; and Zimmerman, Arie,3,450,987.
Brooks, Robert Bruce, to American Cyanamid Company. Fire-resistant fiber blends. 3,480,582, 11-25-69, Cl. 260-45.75
Brooks, Robert M.; and Gardner, William H., to Hercules Incorporated. Nitrocellulose product and method of manufacture of propellant grains employing same. 3,422,169, 1-14-69, Cl. 264-3.
Brooks, Robert M.; and Gardner, William H., to Hercules Incorporated. Slurry casting manufacture of nitrocellulose propellant grains. 3,422,170, 1-14-69, Cl. 264-3.
Brooks, Robert; Wakabayashi, Kinjiro; and Kida, Nobutoshi. Umbrella. 3,467,115, 9-16-69, Cl. 135-25.
Brooks, Thomas W.: *See—*
Petzold, Max L.; Brooks, Thomas W.; and Bane, John M., Jr.,3,479,353.
Brooks Vern E., to Eaton Yale & Towne, Inc. Automatic neutral valve. 3,456,442, 7-22-69, Cl. 60-52.
Brooks, Warren B., to Mobil Oil Corporation. Fail-safe subsea fluid transporatation system. 3,454,083, 7-8-69, Cl. 166-0.5

Brooks, William B.: *See*—
Olliff, Martin T., Jr.; Hecht, Alfred H.; Brown, Robert H.; and Brooks, William B.,3,421,965.
Brooks, William R.; and Heinzel, Irving C. Dispensing container. 3,422,992, 1-21-69, Cl. 222-80.
Brooks, William. D-C chopper. 3,437,906, 4-8-69, Cl. 321-43.
Brookshire, John E., to Western Electric Company, Incorporated. Method of electrical discharge machining. 3,454,738, 7-8-69, Cl. 219-69.
Broom, Charles M.; and Stevens, Robert H., to Kearney-National Inc. Electrical spider connection. 3,469,020, 9-23-69, Cl. 174-71.
Broom, Ronald Francis Johnston, to National Research Development Corporation, mesne. Pulse supply for laser operable at room temperatures. 3,440,513, 4-22-69, Cl. 320-1.
Broom, Ronald Francis Johnston; Hilsum, Cyril; Bayley, Donald; and Ralphs, John Dennis, to National Research Development Corporation. Electro-optical reading device utilizing a pulsed semiconductor diode lamp. 3,443,109, 5-6-69, Cl. 250-217.
Broome, Arthur William James; Crossley, Neville Stanton; and Jones, William Glynne, to Imperial Chemical Industries Limited. Process for treating helminth infestations using benzanilioe derivatives and compositions for use therein. 3,466,370, 9-9-69, Cl. 424-238.
Broome, John: *See*—
Raymond, Samuel; and Broome, John,3,470,080.
Broome, Ronald: *See*—
Sands, David Harold; and Broome, Ronald,3,484,900.
Broomhall, Gordon E.; and Ferranto, Felix L., to Hughes Aircraft Company. Welder power supply. 3,436,514, 4-1-69, Cl. 219-113.
Broos, Jan: *See*—
Vermculen, Gerardus Antonius Wilhelmus; Broos, Jan; and Gravesteijn, Jacobus Cornelis,3,483,416.
Broos, Jozef, to Gevaert-Agfa N.V. Film spool. 3,442,464, 5-6-69, Cl. 242-71.8
Brophy, William R., Jr., to Weston Instruments, Inc. Multiangle gauge. 3,431,782, 3-11-69, Cl. 73-363.9
Brorson, Donald L.: *See*—
Magnuson, Raymond A.; and Brorson, Donald L.,3,433,549.
Broschke, Heinrich; Holle, Werner; and Wiessner, Willi, to Leitz, Ernst, G.m.b.H. Single lens reflex cameras. 3,427,946, 2-18-69, Cl. 95-42.
Broschke, Heinrich: *See*—
Leitz, Ludwig; and Broschke, Heinrich,3,446,126.
Broscoff, Mary E.; and Tackett, Edd. Multipurpose sanding machine. 3,452,485, 7-1-69, Cl. 51-109.
Brose, Barry J. Idler spool assembly for use in developing photographic film by viscous developer. 3,446,410, 5-27-69, Cl. 226-191.
Brose, Harlan F., to United Aircraft Corporation. Process and means for regulating the pressure and flow of a stored fluid. 3,425,233, 2-4-69, Cl. 62-45.
Brose, Harlan F., to United Aircraft Corporation. Catalytic burner. 3,479,144, 11-18-69, Cl. 23-288.
Broscne, William G., Jr.: *See*—
Newman, Charles J.; and Broscne, William G., Jr.,3,462,207.
Broser, Richard, to Accum-Matic Systems, Inc. Automatic accumulating down elevator. 3,477,560, 11-11-69, Cl. 198-218.
Brosig, Adolf: *See*—
Herold, Manfred; and Brosig, Adolf,3,476,218.
Brosious, Daniel R.; and Hollingshead, James K., to Bethlehem Steel Corporation. Pinhole detectors. 3,422,272, 1-14-69, Cl. 250-219.
Brosk, Doris A. Combination garment and toy. 3,447,165, 6-3-69, Cl. 2-75.
Brosk, Doris A. Combined garment hanger and holder and toy. 3,475,852, 11-4-69, Cl. 46-116.
Brosk, Jeffrey Owen. Article of furniture. 3,438,676, 4-15-69, Cl. 297-445.
Broski, Thomas J., to Curtis, Helene, Industries, Inc. Electric hair dryer. 3,426,441, 2-11-69, Cl. 34-48.
Brosnahan, Robert E.; and Curley, Edward J., to Microwave Development Laboratories, Inc. Waveguide filter having branch means to absorb or attenuate frequencies above pass-band. 3,451,014, 6-17-69, Cl. 333-73.
Bross, Helmut Karl Anton. Writing tool. 3,438,715, 4-15-69, Cl. 401-112.
Bross, Helmut Karl. Writing instrument. 3,432,244, 3-11-69, Cl. 401-113.
Bross, Helmut. Cigarette lighter. 3,451,761, 6-24-69, Cl. 431-131.
Bross, Ronald A.: *See*—
Kline, Raymond V.; and Bross, Ronald A.,3,436,596.
Bross, William T., to Liebel-Flarsheim Company, Division of Ritter Pfaudler Corporation. Control circuit for energizing an AC supplied load at zero supply potential. 3,458,800, 7-29-69, Cl. 321-47.
Brossard, Bernard Pierre; Boichard, Jacques; and Gay, Michel Louis Marie Joseph, to Rhone-Poulenc S.A. Process for the preparation of oxalic acid. 3,428,675, 2-18-69, Cl. 260-533.
Brossard, Pierre Claude: *See*—
Battail, Gerard Pierre; and Brossard, Pierre Claude,3,470,477.
Brosseit, Fitz V. Adjustable length shoulder screw. 3,461,769, 8-19-69, Cl. 85-1.
Brosseit, Fritz V., to Western Electric Company, Incorporated. Terminal forming machine. 3,434,324, 3-25-69, Cl. 72-324.
Brosseit, Fritz V., to Western Electric Company, Incorporated. Dispensing mechanism having article distributing cylinder. 3,435,986, 4-1-69, Cl. 221-278.
Brosseit, Fritz V., to Western Electric Company, Incorporated. Method and apparatus for drawing and stretching a flat blank into a tubular shell. 3,457,761, 7-29-69, Cl. 72-325.
Brosseit, Fritz V., to Western Electric Company, Incorporated. Terminal attaching machine. 3,465,409, 9-9-69, Cl. 29-203.
Brosseit, Fritz V., to Western Electric Company, Incorporated. Jam-free indexing mechanism. 3,475,974, 11-4-69, Cl. 74-55.
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney, to Hoffmann-La Roche Inc. Barbituric acid derivatives substituted in the five position. 3,464,990, 9-2-69, Cl. 260-257.
Brossi, Arnold; and Pecherer, Benjamin, to Hoffmann-La Roche Inc.Alkoxy-substituted-6-amino-5H-di-benzo[a,c] cycloheptene-7-carbonitriles and preparation thereof. 3,457,295, 7-22-69, Cl. 260-465.
Brossmann, Gottfried: *See*—
Winter, Heinz; and Brossmann, Gottfried,3,462,370.
Brost, Hans: *See*—
Oehme, Christian; and Brost, Hans,3,420,774.
Brost, Peter M. Apparatus for use in erecting a setup paper box. 3,473,448, 10-21-69, Cl. 93-56.
Brostrup-Jensen, Per: *See*—
Barash, Meyer; and Brostrup-Jensen, Per,3,470,331.
Broszat, Gottfried, to Licentia Patent-Verwaltungs-G.m.b.H. Winding arrangement for distributing surge voltage. 3,479,629, 11-18-69, Cl. 336-70.
Brother Kogyo Kabushiki Kaisha: *See*—
Watanabe, Tomoyoshi; Hishida, Yukio; and Hirata, Takashi, 3,432,018.
Brothers, Jack, to United States of America, Army. Air-burst fuze system for projectiles. 3,434,423, 3-25-69, Cl. 102-70.2
Brothers, Jack, to United States of America, Army. Standoff fire-control system (U). 3,483,821, 12-16-69, Cl. 102-70.2
Brothers, Lewis F. Trigger and release means for bows. 3,461,852, 8-19-69, Cl. 124-35.
Brothers, William B.; and Stuteville, John W. Exit door opening device. 3,458,225, 7-29-69, Cl. 292-92.
Brotherton, homas K.; and Naylor, Peter G., to Union Carbide Corporation. Fabric treatment with water-soluble isocyanates. 3,483,189, 12-9-69, Cl. 260-239.3
Brotherton, Thomas K., to Union Carbide Corporation. Process for the preparation of acid halides. 3,449,416, 6-10-69, Cl. 260-544.
Brotherton, Thomas K.; Knopf, Robert J.; Starcher, Paul S.; and Noffsinger, Charles A., to Union Carbide Corporation. Tricyclic polyamines. 3,470,248, 9-30-69, Cl. 260-563.
Brotherton, Thomas K.; and Lynn, John W., to Union Carbide Corporation. Novel olefinically unsaturated diisocyanates. 3,427,346, 2-11-69, Cl. 260-485.
Brotherton, Thomas K.; and Lynn, John W., to Union Carbide Corporation. Preparation of amino esters of unsaturated polycarboxylic acids. 3,459,786, 8-5-69, Cl. 260-468.
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr., to Union Carbide Corporation. Isocyanatophenylsulfonyl isocyanates. 3,454,606, 7-8-69, Cl. 260-397.7
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr., to Union Carbide Corporation. Process for producing phosphoryl isocyanates. 3,470,271, 9-30-69, Cl. 260-968.
Brotherton, Thomas K.; and Smith, John, Jr., to Union Carbide Corporation. Isocyanate and isothiocyanate compositions and polyurethanes thereof. 3,422,165, 1-14-69, Cl. 260-859.
Brotherton, Thomas K.; and Smith, John, Jr., to Union Carbide Corporation. Viscosity control of spandex solutions. 3,428,611, 2-18-69, Cl. 260-75.
Brothman, Abraham; Bruckner, Alan J.; Halpern, Stephen J.; and Yanis, Conrad, to Sangamo Electric Company. Remote control of electric water heaters. 3,456,163, 7-15-69, Cl. 317-147.
Brothman, Abraham; Halpern, Stephen J.; Reiser, Richard D; Cuddeback, Bruce A.; and Miller, Allen H., to Sangamo Electric Company, mesne. Digital self-optimizing terminal. 3,449,716, 6-10-69, Cl. 340-146.1
Brothman, Abraham; and Reiser, Richard D., to Sangamo Electric Company, mesne. Data transmission system wherein system control is divided between a plurality of levels for remote location activation. 3,484,694, 12-16-69, Cl. 325-55.
Brotz, Walter; Runge, Dietrich; and Albrecht, Manfred Karl Furchtegott, deceased0 (by Albrecht, Helene nee Ruess,0Albrecht, Hilde0Hertlein, Elisabeth nee Paulus), to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Transparent polyvinyl chloride containing high density polyethylene as a lubricant. 3,442,837, 5-6-69, Cl. 260-23.
Brough-Cunningham, Keith Begbie; Wardle, Leonard George; and Cullen, Michael, to English Electric Company Limited, The. Electrical measuring systems. 3,467,889, 9-16-69, Cl. 317-28.

Broughton Corporation: *See—*
Newcomb, Douglas H.; and Nicholson, Charles B., 3,461,908.
Newcomb, Douglas H.; and Nicholson, Charles B., Jr., 3,468,341.
Broughton, Donald B., to Universal Oil Products Company. Solvent recovery process. 3,422,006, 1-14-69, Cl. 208-321.
Broughton, Donald B., to Universal Oil Products Company. Solvent disperse phase extraction of aromatic hydrocarbons. 3,433,735, 3-18-69, Cl. 208-325.
Broughton, Donald B., to Universal Oil Products Company. Recovery of aromatics. 3,435,087, 3-25-69, Cl. 260-674.
Broughton, Donald B., to Universal Oil Products Company. Solvent recovery process. 3,470,087, 9-30-69, Cl. 208-321.
Broughton, Donald B.: *See—*
Gerhold, Clarence G.; and Broughton, Donald B.,3,456,028.
Skala, Hertha; Broughton, Donald B.; De Rosset, Armand J.; and Lickus, A. Gregory,3,437,601.
Broughton, Donald R.: *See—*
O'Brien, John F.; and Broughton, Donald R.,3,480,564.
Broughton, Geoffrey, to Betts and Broughton Limited. Safety footwear. 3,444,572, 5-20-69, Cl. 12-142.
Broughton, Robert M.: *See—*
Harrison, Stanley R.; and Broughton, Robert M.,3,454,280.
Brouillette, Joseph W., Jr.; and Noble, Milton L., to General Electric Company. Analog computation apparatus for generational dynamic correction signals for cathode ray tubes. 3,465,137, 9-2-69, Cl. 235-193.
Brouk, Joseph John. Apparatus for and method of expanding earth materials. 3,456,933, 7-22-69, Cl. 263-21.
Brouneus, Harold A.; and Sprague, Lloyd G., to Corning Glass Works. Temperature limiting circuit arrangement. 3,448,245, 6-3-69, Cl. 219-505.
Brounley, Richard W.; and Downs, Neville L., to Electronic Communications, Inc. Broad-band FM modulator. 3,458,834, 7-29-69, Cl. 332-19.
Broussalian, George L., to Monsanto Company. Surface active agents. 3,453,316, 7-1-69, Cl. 260-476.
Broussard, Douglas E.; and Barry, Donald W., to Shell Oil Company. Method of abandoning and recovering a pipeline during an underwater pipe laying operation. 3,472,035, 10-14-69, Cl. 61-72.3
Broussard, Douglas E.; Barry, Donald W.; Kinzbach, Robert B.; and Kershner, Stuart G., to Shell Oil Company. Pipe-laying barge with adjustable pipe discharge ramp. 3,438,213, 4-15-69, Cl. 61-72.3
Broussard, Douglas E.; and Hemphill, Dean P., to Shell Oil Company. Offshore installation and method of installing a pipe riser. 3,466,882, 9-16-69, Cl. 61-72.3
Broussard, Douglas E.; Hemphill, Dean P.; Bolling, Thomas J., Jr.; and Roach, Erskine E., to Shell Oil Company. Sealed pipe coupling. 3,463,518, 8-26-69, Cl. 285-340.
Broussard, Leo, to Esso Research and Engineering Company. Passivation of metals. 3,479,232, 11-18-69, Cl. 148-31.5
Broussard, Vernon P. Sugar cane harvesters. 3,481,121, 12-2-69, Cl. 56-15.
Brousseau, Roy D.; and Kogstrom, Carl W., said Kogstrom assor to said Brousseau. Method and recorder for making time studies. 3,434,149, 3-18-69, Cl. 346-1.
Brout, Robert Benedicte: *See—*
Frassanito, John R.; Jorgensen, Hugh V.; and Bróut, Robert Benedicte,3,443,664.
Brouwer, Charles W., to Leesona Corporation. Control system for twisting machine. 3,462,935, 8-26-69, Cl. 57-54.
Brouwer, Charles W.; Cruickshank, David G.; and Tata, Raymond V., to Leesona Corporation. Bobbin distributing installation. 3,480,128, 11-25-69, Cl. 198-1.
Brouwer, Charles W.; and Norris, Alan H., to Leesona Corporation. Drive mechanism. 3,434,673, 3-25-69, Cl. 242-18.1
Brouwer, Charles W.; and Richter, Hans H., to Leesona Corporation. Storage apparatus. 3,464,452, 9-2-69, Cl. 139-122.
Brouwer, Charles W.; and Richter, Hans H., to Leesona Corporation. Storage device. 3,477,476, 11-11-69, Cl. 139-122.
Brouwer, Charles W.; and Tata, Raymond V., to Leesona Corporation. Drive mechanism. 3,446,087, 5-27-69, Cl. 74-190.
Brouwer, Charles W.; and Tata, Raymond V., to Leesona Corporation. Bobbin handling installation. 3,474,975, 10-28-69, Cl. 242-35.5
Brouwer, Cornelis Johannes, to U.S. Philips Corporation. Frequency independent phase control circuit. 3,448,368, 6-3-69, Cl. 321-18.
Brouwer, Frans: *See—*
Ryder, James P.; and Brouwer, Frans,3,455,507.
Brouwer, Gerardus Johannes. Sod rolling apparatus. 3,464,641, 9-2-69, Cl. 242-55.
Brouwer, Harvard, to Allied Chemical Corporation. Fail safe bridge output switch. 3,437,842, 4-8-69, Cl. 307-254.
Brouwers, Alexander P.; McCulla, Walter J.; and Swanson, Morris A., to Caterpillar Tractor Company. Leaf spring coupling. 3,464,233, 9-2-69, Cl. 64-27.
Brovedan, Antonio, to Pirelli S.p.A. Multi-pole electromagnetic relay with convertible contacts. 3,469,215, 9-23-69, Cl. 335-132.
Broverman, Alvin Y., to Westinghouse Electric Corporation. Polyphase electrical transformer construction having vertically superposed winding structures with cooling ducts. 3,431,524, 3-4-69, Cl. 336-60.
Broverman, Alvin Y.; and Wilburn, Garlington C., to Westinghouse Electric Corporation. Air cooled transformer. 3,447,112, 5-27-69, Cl. 336-60.
Broverman, Howard L., to General Electric Company. Pulse width modulation servo system including a unique transformerless demodulator. 3,471,759, 10-7-69, Cl. 318-18.
Broverman, Irwin: *See—*
Eichelman, George H., Jr.; and Broverman, Irwin,3,484,307.
Broverman, Irwin, to Olin Mathieson Chemical Corporation. Process for forming composite aluminum alloy. 3,436,804, 4-8-69, Cl. 29-471.5
Broviak, Frank P.: *See—*
Badovinac, Matthew; and Broviak, Frank P.,3,466,506.
Brow, Orville J.; and Jones, Gene T., to General Motors Corporation. Seat belt retractor. 3,421,711, 1-14-69, Cl. 242-107.11
Broward Hurricane Panel Co., Inc.: *See—*
Egan, Bruce C., Jr., 3,421,259.
Browder, Jewel D. Signal-to-noise ratio enhancer. 3,424,994, 1-28-69, Cl. 330-142.
Browder, Jewel D. Signal-to-noise ratio enhancer utilizing bridge circuit having two arms of differing resonant frequency but similar inductance and resistance. 3,475,706, 10-28-69, Cl. 333-74.
Brower, David F.; and Wildi, Paul, to Gulf General Atomic Incorporated. Forming apparatus and method. 3,486,356, 12-30-69, Cl. 72-56.
Brower Manufacturing Co.: *See—*
Thompson, Truman F., 3,429,306.
Brown & Brown, Inc.: *See—*
Brown, Samuel, 3,473,755.
Brown & Root, Inc.: *See—*
Gibson, Robert G.; Johnson, Delbert B.; Mackin, John G., Jr.; and Straws, James C., 3,486,343.
Hauber, Ferdinand R., 3,429,133.
Lawrence, Joseph Benton, 3,472,034.
Moore, Warren T., 3,462,963.
Brown & Sharpe Manufacturing Company: *See—*
Ingham, John Milton; and Carrier, Paul Wilfrid, 3,454,309.
Levesque, George Napoleon; Taylor, Paul Eugene; and Barney, Neil Ide, 3,427,755.
Brown & Williamson Tobacco Corporation: *See—*
Sexstone, John H., 3,471,005.
Sexstone, John H.; and Hilgartner, George H., Jr., 3,473,539.
Sexstone, John H., 3,482,488.
Brown, Alan E., to Wright, E. J., Central Limited. Support standard. 3,450,270, 6-17-69, Cl. 211-176.
Brown, Alan M.: *See—*
Di Bartolo, Ernest A.; and Brown, Alan M.,3,482,525.
Brown, Albert C., to Addressograph-Multigraph Corporation. Printing pressure control spacer means for data encoders. 3,481,269, 12-2-69, Cl. 101-56.
Brown, Albert D., to Lockheed Aircraft Corporation. Visual approach path indicator. 3,457,545, 7-22-69, Cl. 340-25.
Brown, Albert E., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Curl-resistant transfer elements and methods for preparing same. 3,453,135, 7-1-69, Cl. 117-36.4
Brown, Albert L.: *See—*
Brown, Marie Van Brittan; and Brown, Albert L.,3,482,037.
Brown, Alfred Winsor: *See—*
Marzocchi, Alfred; and Brown, Alfred Winsor,3,433,689.
Brown, Allan R. Short dipole antenna. 3,432,858, 3-11-69, Cl. 343-752.
Brown, Alvin E., to Lockheed Aircraft Corporation. Acoustic fluid metering device. 3,420,102, 1-7-69, Cl. 73-194.
Brown, Alvin E.: *See—*
Green, Philip S.; and Brown, Alvin E.,3,475,551.
Brown and Williamson Tobacco Corporation: *See—*
Willis, Norman Edwin; and Naylor, Donald Brian, 3,485,144.
Brown, Angus M., to Bloomfield Manufacturing Co. Vending machine. 3,432,074, 3-11-69, Cl. 221-117.
Brown, Archer W.; Montgomery, James L.; and Beer, Walter A., to American Hoist & Derrick Company. Safety brake system. 3,460,645, 8-12-69, Cl. 180-6.7
Brown, Arden S., to Esso Research and Engineering Company. Pour point meter. 3,442,116, 5-6-69, Cl. 73-17.
Brown, Arnold; and Taylor, Peter Norman, to General Motors Corporation. Change-speed transmission selector assemblies. 3,422,697, 1-21-69, Cl. 74-473.
Brown, Arthur E., to Ingersoll-Rand Company. Valve housing. 3,438,390, 4-15-69, Cl. 137-512.1
Brown, Arthur E. Rotary positive displacement machines. 3,472,445, 10-14-69, Cl. 230-141.
Brown, Arthur R.,: *See—*
Hundley, George K., 3,431,449.
Brown, Arthur S.; Leiby, Harold E.; and Miller, Earle A., to American Welding & Manufacturing Company, The. Metal door and method of making. 3,455,078, 7-15-69, Cl. 52-619.

Brown Auto Stabilizer Co.: *See—*
Tolley, Gary E., 3,438,648.
Brown Boveri/Krupp Reaktorbau G.m.b.H.: *See—*
Huhndorf-Richter, Bernhard; Von Der Decken, Claus-Benedikt; and Ohlig, Heinz, 3,439,804.
Brown, Buist W., to Newport News Shipbuilding and Dry Dock Company. Waterproof strain gauge assembly and method of making same. 3,475,712, 10-28-69, Cl. 338-2.
Brown, Calvin O., to Set Screw & Manufacturing Company. Collet stock lock. 3,462,163, 8-19-69, Cl. 279-50.
Brown, Carl A.: *See—*
Rosaen, Nils O.; Firth, Robert L.; and Brown, Carl A.,3,486,622.
Brown, Carter N., to Lilly, Eli, and Company. Cinnamic acid derivatives. 3,431,302, 3-4-69, Cl. 260-559.
Brown, Cecero C.: *See—*
Cochran, Chudleigh B., 3,421,449.
Brown, Charles Ira. Vegetable peeler with material receiving opening. 3,465,437, 9-9-69, Cl. 30-279.
Brown, Charles J.; and Baumgarten, Morton Z., to Metal Flo Corporation of Ohio, mesne. Hydraulic spindle press for drawing metal. 3,470,725, 10-7-69, Cl. 72-336.
Brown, Charles Perrin; and Rose, John, to United States Machinery. Cabling apparatus. 3,448,569, 6-10-69, Cl. 57-15.
Brown, Christian H. Non-cyclic oscillating drive mechanism for target traps. 3,421,491, 1-14-69, Cl. 124-9.
Brown, Christopher Kingsley, to AMP Incorporated. Apparatus for trimming and connecting wires. 3,443,299, 5-13-69, Cl. 29-203.
Brown, Christopher Kingsley, to AMP Incorporated. All weather card reader. 3,462,567, 8-19-69, Cl. 200-46.
Brown, Cicero C.: *See—*
Potts, Ernest L., 3,479,067.
Brown, Cicero C. Well anchor or packer. 3,420,306, 1-7-69, Cl. 166-120.
Brown, Cicero C. Well packer. 3,422,899, 1-21-69, Cl. 166-129.
Brown, Cicero C. Well packer apparatus. 3,425,489, 2-4-69, Cl. 166-129.
Brown, Cicero C. Powered coupling device. 3,427,048, 2-11-69, Cl. 285-18.
Brown, Cicero C. Pump out drill bit. 3,429,387, 2-25-69, Cl. 175-237.
Brown, Cicero C. Under-reaming tool. 3,433,313, 3-18-69, Cl. 178-270.
Brown, Cicero C. Floatable base for marine drilling platform and method of operation. 3,434,293, 3-25-69, Cl. 61-46.5
Brown, Cicero C., to Brown Oil Tools, Inc. Hydrostatic anchor and drain device for well pipe strings. 3,448,805, 6-10-69, Cl. 166-212.
Brown, Cicero C. Bridging plug with pressure relief means and mandrel latch. 3,454,089, 7-8-69, Cl. 166-128.
Brown, Cicero C. Well tool string. 3,454,090, 7-8-69, Cl. 166-138.
Brown, Cicero C. Wash tool for use in wells. 3,456,724, 7-22-69, Cl. 166-146.
Brown, Cicero C., to Atlantic Richfield Company. Underwater tubing head. 3,457,992, 7-29-69, Cl. 166-0.6
Brown, Cicero C. Methods and apparatus for installation and removal of preventer stacks in off-shore oil and gas wells. 3,461,958, 8-19-69, Cl. 166-0.5
Brown, Cicero C. Hydraulically driven power head. 3,467,202, 9-16-69, Cl. 173-57.
Brown, Cicero C., to Atlantic Refining Company, The. Remote underwater connector. 3,477,744, 11-11-69, Cl. 285-18.
Brown, Cicero C.; and Mott, James D., said Mott assor to Brown Oil Tools, Inc. Well casing hanger. 3,450,204, 6-17-69, Cl. 166-124.
Brown Citrus Machinery Corporation: *See—*
Douglas, Peter L., 3,464,976.
Brown, Claude V., to Phillips Petroleum Company. Fibrillation. 3,423,888, 1-28-69, Cl. 51-319.
Brown, Clifford A.: *See—*
Brown, Robert A.; and Brown, Clifford A.,3,422,880.
Brown, Clinton E., to Hydronautics, Inc. Ambient temperature vapor compression desalination system. 3,450,601, 6-17-69, Cl. 202-174.
Brown, Clinton Eugene; and Stone, Ralph W., Jr., to United States of America, National Aeronautics and Space Administration. G Conditioning suit. 3,461,855, 8-19-69, Cl. 128-1.
Brown, Clyde O., to United Aircraft Corporation. Current control for a cold cathode. 3,454,827, 7-8-69, Cl. 315-108.
Brown Company: *See—*
Lugt, Thomas Vander; and Coe, Merrill J., 3,438,565.
Brown, D. S., Company, The: *See—*
Aftreth, Owren J., 3,434,689.
Boney, Donald R., 3,485,149.
Brown, Delmont D., 3,460,796.
Hall, Frank K., 3,479,933.
Hall, Frank Kenneth, 3,481,539.
Tonjes, Burl D.; and Brown, Delmont D., 3,422,734.
Brown, Dale M., to General Electric Company. Protection means for surface semiconductor devices having thin oxide films therein. 3,462,657, 8-19-69, Cl. 317-235.
Brown, Dale M., to General Electric Company. Method of producing homogeneous crystals of concentrated antimony-bismuth solid solutions. 3,481,796, 12-2-69, Cl. 148-1.6
Brown, Daniel L.: *See—*
McRae, Wayne A.; Brown, Daniel L.; and McGriff, Stuart G.,3,475,122.
Brown, Daniel M.; and McGowan, John A., said Brown assor. to University of California, The Regents of the. Underwater sampling apparatus. 3,461,591, 8-19-69, Cl. 43-8.
Brown, David Albert: *See—*
Coates, Harold; Brown, David Albert; and Peters, Francis Michael,3,429,851.
Melton, Thomas M.; and Brown, David A.,3,476,836.
Brown, David, Gear Industries Limited: *See—*
Simmons, Norman C., 3,460,405.
Brown, David H.: *See—*
Folds, Donald L.; Brown, David H.; and Warner, Henry L.,3,483,504.
Brown, David J. B., to Winget Limited. Load lifting. 3,430,778, 3-4-69, Cl. 212-144.
Brown, David J. B., to Winget Limited. Steerable planetary drive wheel. 3,469,647, 9-30-69, Cl. 180-43.
Brown, David John Bowes, to Winget Limited. Modification of front-end loaders. 3,469,724, 9-30-69, Cl. 214-776.
Brown, David Morris, to Rolls-Royce Limited. Air intake duct for a gas turbine engine. 3,485,252, 12-23-69, Cl. 137-15.1
Brown, David, Tractors (Canada) Limited: *See—*
Hull, Charles Hartley; and Horsfall, Harry, 3,456,736.
Brown, David Trent; and Wolff, Charles Harry, to International Business Machines Corporation. Error detection and correction apparatus. 3,439,331, 4-15-69, Cl. 340-146.1
Brown, David W.: *See—*
Anderson, Clifford E.; and Brown, David W.,3,422,328.
Brown, Delmont D., to Brown, D. S., Company, The. Joint-forming device. 3,460,796, 8-12-69, Cl. 249-9.
Brown, Delmont D.: *See—*
Tonjes, Burl D.; and Brown, Delmont D.,3,422,734.
Brown, Donald E.: *See—*
McFarlin, Richard F.; and Brown, Donald E.,3,428,418.
Brown, Donald R., to Western Electric Company, Incorporated. Low value series wound capacitor and method of fabricating same. 3,461,362, 8-12-69, Cl. 317-260.
Brown, Donald R., to Western Electric Company, Incorporated. Method of establishing a testing procedure for self-healing capacitors. 3,465,403, 9-9-69, Cl. 29-25.42
Brown, Donald W.: *See—*
Blitz, Melvin H.; Brown, Donald W.; and Black, Guy,3,460,270.
Brown, Dwight C. Bowling game kit. 3,450,406, 6-17-69, Cl. 273-42.
Brown, Dwight M., and O'Hearn, Taylor W.:*See—*
Wilson, O. C., Jr., 3,426,573.
Brown, Earl F., to Bell Telephone Laboratories, Incorporated. Dual code differential encoding scheme for video signals. 3,422,227, 1-14-69, Cl. 179-15.55
Brown, Earl J.; Crowder, James R.; and Karl, Raymond O., to Douglas, McDonnell Corporation. Process for making thin-film temperature sensors. 3,434,940, 3-25-69, Cl. 204-15.
Brown, Earl Waldo. Jet engines. 3,486,331, 12-30-69, Cl. 60-39.77
Brown, Edgar Alan; Chou, Albert S.; and Darling, Richard H., to International Business Machines Corporation. Print hammer actuator. 3,460,469, 8-12-69, Cl. 101-93.
Brown, Edgar Alan; and Darling, Richard H., to International Business Machines Corporation. Actuator driver circuit. 3,449,639, 6-10-69, Cl. 317-123.
Brown, Edgar D., Jr., to General Electric Company. Copolymeric organopolysiloxane lubricant com- position. 3,441,585, 4-29-69, Cl. 260-448.2
Brown, Edgar D., Jr., to General Electric Company. Phosphorous-containing organopolysiloxane lubricant. 3,479,290, 11-18-69, Cl. 252-49.9
Brown, Edward A., to Searle, G. D., & Co.Spiro[estrene/androstene-17,2'-oxetane]-3-one and intermediates. 3,422,096, 1-14-69, Cl. 260-239.55
Brown, Edward A., to Searle, G. D., & Co.2-Aminomethyl-3-(17β-hydroxy-3-oxoandrost-4-en- 17α-YL)-propionic acid lactones and intermediates. 3,438,979, 4-15-69, Cl. 260-239.57
Brown, Edward A., to Eastman Kodak Company. Randomly entangled textile product. 3,449,903, 6-17-69, Cl. 57-140.
Brown, Edward A., to Searle, G. D., & Co.17β-hydroxy-3-oxoestr-4-en-17α-ylmethylmalonic acid γ-lactone and precursors. 3,475,420, 10-28-69, Cl. 260-239.57
Brown, Edward A., to Searle, G. D., & Co.3-(17β-Hydroxy-3-methoxyestra-1,3,5(10)-trien- 17α-yl)-2-methylenepropionic acid γ-lactone and intermediates. 3,483,192, 12-9-69, Cl. 260-239.57
Brown, Edward. Dump trailer safety device. 3,464,755, 9-2-69, Cl. 298-22.
Brown, Ellis M.; Loper, George B.; and Otto, Bernard, to Mobil Oil Corporation. Seal for pneumatic acoustic source. 3,468,396, 9-23-69, Cl. 181-0.5
Brown, Elvis B. Traffic barricade. 3,475,009, 10-28-69, Cl. 256-64.
Brown Engineering Company: *See—*
Denton, Don E., Jr., 3,447,040.
Hughey, John E., 3,484,004.
Rhinehart, Richard W.; Conn, Henry L.; and Morris, Howard E., 3,460,177.

Brown, Eric Clive: *See*—
Sayer, Lawrence Norman; and Brown, Eric Clive,3,436,515.
Brown, Eric D., to Dow Corning Corporation. Heat activated curable organosilicon composition. 3,461,185, 8-12-69, Cl. 260-825.
Brown, Everette Vernon. Toilet paper dispenser. 3,421,800, 1-14-69, Cl. 312-39.
Brown, Floyd R.; and Floehr, Walter L., to Unitcast Corporation. Weight-steered water sled. 3,433,201, 3-18-69, Cl. 115-70.
Brown, Ford G.; Davies, Robert W.; and Kellner, George D., to Western Electric Company, Incorporated. Agitating a batch of articles during heat treatment to prevent thermal bonding of the articles. 3,420,511, 1-7-69, Cl. 263-21.
Brown, Ford J.; and McAlexander, Joseph C., Jr., said Brown assor. to Western Electric Company, Incorporated. Winding methods. 3,426,425, 2-11-69, Cl. 29-605.
Brown, Francis Barton: *See*—
Coberly, Clarence J.; and Brown, Francis Barton,3,451,119.
Coberly, Clarence J.; and Brown, Francis Barton,3,476,413.
Brown, Francis E.: *See*—
Alexander, Richard L.; Anspon, Harry D.; and Brown, Francis E.,3,466,265.
Anspon, Harry D.; and Brown, Francis E.,3,485,812.
Brown, Francis X.; and Wismer, Samuel W., Jr., to Westinghouse Electric Corporation. Welding method. 3,430,323, 3-4-69, Cl. 29-157.3
Brown, Frank A.: *See*—
Henrichs, Bernard W.; and Brown, Frank A.,3,469,277.
Brown, Frank E.: *See*—
Hungerford, Richard C.; and Brown, Frank E.,3,444,868.
Brown, Frank F. Electrical swivel connector. 3,430,180, 2-25-69, Cl. 339-8.
Brown, Fred, to Union Tank Car Company. Tank car. 3,467,027, 9-16-69, Cl. 105-362.
Brown, Fred, to Union Tank Car Company, mesne. Method of expanding a railway tank car. 3,475,809, 11-4-69, Cl. 29-412.
Brown, Frederick Le Roy: *See*—
Scheffler, Norman E.; and Brown, Frederick Le Roy,3,449,194.
Brown, Gaylord W., to Brown Machine Company of Michigan, Inc. Locking mechanism for differential pressure forming apparatus. 3,465,386, 9-9-69, Cl. 18-19.
Brown, George C., Jr., to Martin-Marietta Corporation. Color selector and specifier. 3,434,227, 3-25-69, Cl. 35-28.3
Brown, George C.; and Klang, Daniel M., to Potter Instrument Company, Inc. Rewind control circuit. 3,433,426, 3-18-69, Cl. 242-55.12
Brown, George C.; Klang, Daniel M.; and Moritz, Frederick G., to Potter Instrument Company, Inc. Capstan motor power supply. 3,471,073, 10-7-69, Cl. 226-188.
Brown, George C.; and Moritz, Frederick G., to Potter Instrument Company, Inc. Rewind conrol circuit. 3,433,427, 3-18-69, Cl. 242-55.12
Brown, George E., Jr., to Fibers Unlimited, Inc. Apparatus for defibering cellulosic material in water. 3,420,454, 1-7-69, Cl. 241-46.
Brown, George J. Spring-biased jumping device. 3,427,019, 2-11-69, Cl. 272-57.
Brown, George J. Telephone backboard. 3,470,330, 9-30-69, Cl. 179-146.
Brown, George L., to Automatic Electric Laboratories, Inc. Miniature telephone ringer. 3,466,650, 9-9-69, Cl. 340-397.
Brown, George M. Isometric exercising device with indicator. 3,424,005, 1-28-69, Cl. 73-379.
Brown, George W., to Addressograph-Multigraph Corporation. Print pressure control means in character embossing machines. 3,428,158, 2-18-69, Cl. 197-6.6
Brown, Gilbert G., to American Sterilizer Company. Portable light and base combination. 3,462,594, 8-19-69, Cl. 240-81.
Brown, Gordon H., to Whirlpool Corporation. Control for electric motor with safety switch. 3,427,507, 2-11-69, Cl. 317-41.
Brown, Gordon R.: *See*—
Law, Kenneth J.; and Brown, Gordon R.,3,434,048.
Brown, Graham Edward: *See*—
Bell, Donald K.; and Brown, Graham Edward,3,438,878.
Brown, Graydon L.; and Fair, Delbert W., to Continental Oil Company. Marine vibrator devices. 3,482,646, 12-9-69, Cl. 181-0.5
Brown, Graydon L.; and Thomas, Bobby J., to Continental Oil Company. Digital system for controlling a seismic vibrator. 3,460,648, 8-12-69, Cl. 181-0.5
Brown, Grover W.; and Kingsley, Kenyon W., to Okonite Company, The. Electric cable with adhered polymeric insulation. 3,485,939, 12-23-69, Cl. 174-107.
Brown, Harmon W.: *See*—
Erickson, Raymond A.; and Brown, Harmon W.,3,433,945.
Brown, Harmon W., to Varian Associates. Matched electric and magnetic field homogeneity for optimum resolution cycloidal mass spectrometers. 3,437,805, 4-8-69, Cl. 250-41.9
Brown, Harmon W., to Varian Associates. Ion source with side and end walls having independent potentials. 3,443,088, 5-6-69, Cl. 250-41.9
Brown, Harmon W., to Varian Associates. Sample insertion probe having integral sample introduction control means and mass spectrometer means using same. 3,449,563, 6-10-69, Cl. 250-41.9
Brown, Harmon W., to Varian Associates. Ion source for mass spectrometers employing means for flattening equipotentials within the ion production region. 3,462,595, 8-19-69, Cl. 250-41.9
Brown, Harmon W., to Varian Associates. Linear scan readout for quantities which vary in proportion to the second or higher powers of applied scan field and mass spectrometers using same. 3,478,203, 11-11-69, Cl. 250-41.9
Brown, Harold Frederick, to Imperial Chemical Industries Limited. Woven stretch fabrics. 3,452,411, 7-1-69, Cl. 28-72.
Brown, Harold. Beverage dispenser. 3,422,634, 1-21-69, Cl. 62-390.
Brown, Harry Curtis, to Westinghouse Electric Corporation. Memory and conversion circuit. 3,462,757, 8-19-69, Cl. 340-347.
Brown, Harry W.; and Thompson, Larry D., to Cutler-Hammer, Inc., mesne. Solid state power controller for A. C. load devices. 3,447,057, 5-27-69, Cl. 318-345.
Brown, Harvey A., to Minnesota Mining and Manufacturing Company. Imagewise photochromic responsive element and process. 3,486,899, 12-30-69, Cl. 96-90.
Brown, Henry; Becking, Donald H.; and Valayil, Sylvester P., to Udylite Corporation, The. Chromium plating electrolyte and method for preventing mist therein. 3,432,408, 3-11-69, Cl. 204-51.
Brown, Henry; and Tomaszewski, Thaddeus W., to Udylite Corporation, The. Electrodeposition of a micro-cracked corrosion resistant nickel-chromium plate. 3,471,271, 10-7-69, Cl. 29-183.5
Brown, Herbert C. Process for oxidation of hydrocarbylborane compounds to alcohols. 3,439,046, 4-15-69, Cl. 260-617.
Brown, Herbert L., Jr.: *See*—
Helms, John D.; and Brown, Herbert L., Jr.,3,462,577.
Brown, Horace D.: *See*—
Sarett, Lewis H.; and Brown, Horace D.,3,471,508.
Sarett, Lewis H.; and Brown, Horace D.,3,478,046.
Brown, Hugh O.: *See*—
Greene, Robert L.; and Brown, Hugh O.,3,484,359.
Brown, Hugh O. Apparatus and method for stripping brussels sprouts. 3,425,424, 2-4-69, Cl. 130-30.
Brown International Corporation: *See*—
James, Donald R., 3,486,603.
Rickard, Donn J.; Holbrook, Franklin K.; Bushman, Ronald C.; Preston, Warren O.; and Gill, Thomas H., 3,448,682.
Brown, Irving, to United States of America, Army, mesne. Analog pulse variation digital-to-analog converter. 3,454,943, 7-8-69, Cl. 340-347.
Brown, Ivan Godfrey Oliver, to AMP Incorporated. Apparatus for crimping electrical terminals and tensile test apparatus for testing the crimped connection. 3,473,213, 10-21-69, Cl. 29-203.
Brown, Jack H. Winch for raising and lowering motor vehicle engines. 3,447,785, 6-3-69, Cl. 254-145.
Brown, Jack M.: *See*—
Hartzler, Earnest D.; and Brown, Jack M.,3,423,556.
Brown, James A., Jr. Wig supporting manikin head. 3,485,250, 12-23-69, Cl. 132-53.
Brown, James A.; Garrett, Walter L.; and Wielicki, Henry, to Dow Chemical Company, The. Method of preparing electrophotographic photoconductive compositions. 3,467,603, 9-16-69, Cl. 252-501.
Brown, James D.: *See*—
Gaeth, Rudolf H.; and Brown, James D.,3,458,493.
Brown, James G., & Associates, Inc.: *See*—
Robinson, Sam P., 3,420,628.
Brown, James N., Jr.; and Newhall, Edmunde E., to Bell Telephone Laboratories, Incorporated. Magnetic core converging switch. 3,457,553, 7-22-69, Cl. 340-174.
Brown, James O.: *See*—
Adams, John N., Jr.; Martin, Bill G.; and Brown, James O.,3,481,681.
Brown, James Rankin, to Hemisphere Food Products Corporation, mesne. Dispensing system. 3,467,230, 9-16-69, Cl. 141-59.
Brown, James, to Power Jets (Research & Development) Limited. Pressure exchangers. 3,450,334, 6-17-69, Cl. 230-69.
Brown, Jay: *See*—
Ely, Robert G., 3,456,810.
Brown, Jay Benton. Liquid dispensing apparatus. 3,420,416, 1-7-69, Cl. 222-335.
Brown, Jerald L.; and Shelton, John J., to Fife Manufacturing Company. System for photoelectric control of moving webs. 3,431,425, 3-4-69, Cl. 250-219.
Brown, Joe R.; and Montgomery, James W., to Brown Oil Tools, Inc. Liner hanger packer. 3,460,617, 8-12-69, Cl. 166-124.
Brown, Joe R.; and Schwab, Carl M., said Schwab assor. to Brown Tools, Inc. Cementing method and apparatus. 3,444,929, 5-20-69, Cl. 166-173.
Brown, John A., Jr.: *See*—
Murphy, Alfred M.; Filak, Carl M.; Long, Thomas P.; and Brown, John A., Jr.,3,475,942.
Brown, John C. Tire chain mounting arrangement. 3,473,593, 10-21-69, Cl. 152-233.

Brown, John Johnston; and Hardy, Robert Allis, Jr., to American Cyanamid Company. Substituted 7-(2-formyl-1-alkoxyvinyl)-7,8-dihydro- 6-(hydroxy or methoxy)-6,14-endo(etheno or ethano) codides and morphides. 3,474,102, 10-21-69, Cl. 260-285.
Brown, John Johnston; and Hardy, Robert Allis, Jr., to American Cyanamid Company. Substituted 7-acryloyl-7,8-dihydro-6-(hydroxy or methoxy)-6,14-endo(etheno or ethano) codides and morphides. 3,474,103, 10-21-69, Cl. 260-285.
Brown, John M., Jr., to Anderson, V. E., Mfg., Co. Window structure. 3,462,882, 8-26-69, Cl. 49-181.
Brown, Joseph Cecil, to Homerton Engineering Company Limited. Sun visor. 3,424,491, 1-28-69, Cl. 296-97.
Brown, Joseph Horsefield, to Imperial Chemical Industries Limited. Manufacture of chlorinated hydrocarbons. 3,453,340, 7-1-69, Cl. 260-654.
Brown, Joseph Horsefield; and Kopsch, Ulrich Carl Werner, to Imperial Chemical Industries Limited. Manufacture of chlorinated hydrocarbons. 3,444,252, 5-13-69, Cl. 260-654.
Brown, Joseph M., to Chance Manufacturing Company, Inc. Amusement ride apparatus and method. 3,456,943, 7-22-69, Cl. 272-29.
Brown, Joseph Reese, Jr., to Burroughs Corporation. Address selection switch for coincidence memory. 3,423,603, 1-21-69, Cl. 307-253.
Brown, Joseph: *See*—
Gedris, Algis E.; Weber, Hans B.; and Brown, Joseph,3,461,815.
Weber, Hans B.; and Brown, Joseph,3,461,814.
Brown, Joshua R. C.: *See*—
Thomas, Jess W.; Brown, Joshua R. C.; and Anderson, James J.,3,445,194.
Brown, Kenard Daniel. Method and apparatus for forming helical springs and the like. 3,478,408, 11-18-69, Cl. 29-458.
Brown, Kenneth Gordon: *See*—
Davies, Gerald Thomas; and Brown, Kenneth Gordon,3,421,926.
Brown, Kenneth M.: *See*—
Urban, Peter; and Brown, Kenneth M.,3,472,786.
Brown, Kenneth Robson: *See*—
Briggs, Thomas Stanley; and Brown, Kenneth Robson,3,435,742.
Brown, Kenneth Robson; and McDermott, Bernard Colin, to Ferranti, Limited. Method of making slot closers for small motors. 3,468,019, 9-23-69, Cl. 29-596.
Brown, Kenneth W., to National Research Development Corporation. Overload detector for wire feed system. 3,483,340, 12-9-69, Cl. 200-61.18
Brown, Kenton J., to Beloit Corporation. Mechanical pulping apparatus. 3,459,379, 8-5-69, Cl. 241-38.
Brown, Kenton J.: *See*—
Roerig, Arnold J.; and Brown, Kenton J.,3,433,392.
Brown, Kevan, to Wyeth, John, & Brother Limited, mesne. Certain 2,4-diarylthiazole-5-alkanoic acids and derivatives thereof. 3,476,766, 11-4-69, Cl. 260-302.
Brown, Lewis E., to Fisher Governor Company. Flow control device. 3,428,080, 2-18-69, Cl. 137-501.
Brown, Lloyd H.; and Watson, David D., to Quaker Oats Company, The. Base curing furylethylenealdehyde cyclohexanone adhesive composition. 3,448,069, 6-3-69, Cl. 260-32.8
Brown, Lyle Robert: *See*—
Aune, Edward S.; and Brown, Lyle Robert,3,434,406.
Brown Machine Company of Michigan, Inc.: *See*—
Brown, Gaylord W., 3,465,386.
Schnepp, Bradley A., 3,461,613.
White, James C., 3,461,760.
Brown, Mackenzie P.: *See*—
Beyers, Marvin E.; Brown, Mackenzie P.; Carter, John W.; Junck, John A.; Lauterbach, Jerre F.; and Winters, Frank H.,3,463,190.
Brown, Malcolm Neal; Hargest, Thomas Sewell, III; and Stoltz, Herbert Collier, to AMP Incorporated. Drop-count attachment. 3,449,952, 6-17-69, Cl. 73-194.
Brown, Marie Van Brittan; and Brown, Albert L. Home security system utilizing television surveillance. 3,482,037, 12-2-69, Cl. 178-6.
Brown, Martin Granger, to Imperial Chemical Industries Limited. Preparation of calcium sulphate alpha- hemihydrate slurries for casting in moulds. 3,432,318, 3-11-69, Cl. 106-110.
Brown, Martin J., to Western Electric Company, Incorporated. Device for measuring the instantaneous product of two electrical quantities. 3,450,993, 6-17-69, Cl. 324-121.
Brown, Martin M., to Robin Products Company. Molding fastener. 3,466,709, 9-16-69, Cl. 24-73.
Brown, Martin M., to Robin Products Company. Resilient fastening device in threaded bore. 3,466,966, 9-16-69, Cl. 85-5.
Brown, Martin M.; Kuchta, Frank J.; and West, Robert F., to Stanley Works, The. Chalk line reel. 3,438,595, 4-15-69, Cl. 242-96.
Brown, Marvin L.; and Pedersen, Carl O., to Case, J. I., Company. High-pressure hydraulic swivel coupling. 3,450,422, 6-17-69, Cl. 285-131.
Brown, Mary Lucille. Wearing apparel. 3,425,063, 2-4-69, Cl. 2-234.
Brown, Maurice H.; and Linning, George F., to Amerline Corporation. Coil receiving structure. 3,428,929, 2-18-69, Cl. 336-129.
Brown, Michael Richard; and Waters, Geoffrey Sherwood, to National Research Development Corporation. Three-dimensional visual display systems. 3,474,248, 10-21-69, Cl. 250-71.
Brown, Michael; and Dickie, Donald Landrine, to American Cyanamid Company. Container filling process. 3,477,192, 11-11-69, Cl. 53-22.
Brown, Morris A., to Gruy, H. J., and Associates, Incorporated. Fluid storage apparatus. 3,472,033, 10-14-69, Cl. 61-46.
Brown, Morris E., to Eastman Kodak Company. Reel and web retaining means therefor. 3,463,411, 8-26-69, Cl. 242-74.1
Brown, Neil. Foldable frame construction for crab pots and the like. 3,427,742, 2-18-69, Cl. 43-100.
Brown, Neuberne H., Jr.; Butler, David P.; Carter, Jack M.; Ferik, Michael; and Ogle, Paul E., said Ferik assor. to said Ogle and said Brown. Inflatable bulkhead for railroad car. 3,427,997, 2-18-69, Cl. 105-369.
Brown, Norman F., to Otis Engineering Corporation. Method of producing seals. 3,420,928, 1-7-69, Cl. 264-261.
Brown, Norman F., to Halliburton Company. Balanced rotary valve. 3,479,006, 11-18-69, Cl. 251-174.
Brown, Norman F.; Tamplen, Jack W.; and Meaux, Dudley Joseph, to Otis Engineering Corporation. Leak tester for flow conductors. 3,420,095, 1-7-69, Cl. 73-40.5
Brown, Norman R.; Martin, Michael J., Jr.; and Stanner, Donald, to General Motors Corporation. Clip installing tool. 3,478,405, 11-18-69, Cl. 29-212.
Brown Oil Tools, Inc.: *See*—
Brown, Cicero C., 3,448,805.
Brown, Cicero C.; and Mott, James D., 3,450,204.
Brown, Joe R.; and Montgomery, James W., 3,460,617.
Cochran, Chudleigh B., 3,459,261.
Brown, Omar L., to Fraze, Ermal C., mesne. Can end with off center rivet. 3,428,210, 2-18-69, Cl. 220-54.
Brown, Omar L., to Fraze, Ermal C., mesne. Tab for an easy-opening container. 3,445,028, 5-20-69, Cl. 220-54.
Brown, Omar L., to Fraze, Ermal C., mesne. Easy-opening can end with nonremovable tab. 3,446,389, 5-27-69, Cl. 220-48.
Brown, Omar L., to Fraze, Ermal C., mesne. Method of making an apertured dished article. 3,460,368, 8-12-69, Cl. 72-334.
Brown, Omar L., to Fraze, Ermal C. Method of making a can end. 3,479,733, 11-25-69, Cl. 29-509.
Brown, Omar L., to Fraze, Ermal C., mesne. Easy-opening container closure. 3,485,196, 12-23-69, Cl. 113-121.
Brown, Omar L., to Fraze, Ermal C., mesne. Tab for easy-opening container. 3,485,411, 12-23-69, Cl. 220-54.
Brown, Omar L.; and Peters, Don B., to Fraze, Ermal C., mesne. Easy opening can end. 3,454,185, 7-8-69, Cl. 220-54.
Brown, Patrick Rowden, to Burnerd, F., & Co. Limited. Power operated collet chucks. 3,460,848, 8-12-69, Cl. 279-4.
Brown, Paul M.; Hopper, Nolan D.; Kampf, Richard S.; and Lord, Walter V., to Philco-Ford Corporation. Film developing apparatus. 3,446,134, 5-27-69, Cl. 95-89.
Brown, Paul R., to Seal Basin Marine Company. Mooring device. 3,431,568, 3-11-69, Cl. 9-8.
Brown, Paul R., to Seal Basin Marine Company. Boat construction. 3,438,073, 4-15-69, Cl. 9-1.
Brown, Paul R., to Seal Basin Marine Company. Mooring device. 3,473,505, 10-21-69, Cl. 114-230.
Brown, Peter Thomas: *See*—
McKay, Alan Gordon; and Brown, Peter Thomas,3,449,278.
Brown, Peter, to Revertex, Ltd. Apparatus for and a method of saturating non- woven fabrics. 3,449,156, 6-10-69, Cl. 117-102.
Brown, Philip H.; and Ellson, Lloyd W., to Inland Container Corporation. Pallet leg structure. 3,477,395, 11-11-69, Cl. 108-51.
Brown, Ralph H., Jr., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Filling yarn mixing mechanism. 3,444,899, 5-20-69, Cl. 139-122.
Brown, Ralph H., Jr., to Marshall, John Donald, and Bomar, Horace L., as trustee of Carolina Patent Development Trust, The. Filling control for shuttleless looms and fabric. 3,467,148, 9-16-69, Cl. 139-122.
Brown, Raymond E., to McDonnell Douglas Corporation, mesne. Means for improving the operating characteristics of switching devices. 3,449,688, 6-10-69, Cl. 330-30.
Brown, Richard E.; and Janson, William A., to North American Rockwell Corporation. Heat arresting grease extracting filter assembly. 3,425,334, 2-4-69, Cl. 98-115.
Brown, Richard E.; and Meltzer, Robert I., to Warner-Lambert Pharmaceutical Company. Aromatic amino acid. 3,437,689, 4-8-69, Cl. 260-518.
Brown, Richard E.; and Meltzer, Robert I., to Warner-Lambert Pharmaceutical Company. 2-Methyl-2(β-substituted ethyl)-1,3-cyclopentanedione derivatives. 3,445,502, 5-20-69, Cl. 260-468.
Brown, Richard E.; and Meltzer, Robert I., to Warner-Lambert Pharmaceutical Company. 2-Alkyl-2-carboxyalkyl-3-carboxy or 3-keto-N- (m-alkoxyphenethyl) cycloalkylamines. 3,487,107, 12-30-69, Cl. 260-519.
Brown, Richard E.; and Papp, Louis S., to North American Rockwell Corporation. Self-cleaning drum type filter assembly. 3,472,002, 10-14-69, Cl. 55-272.

Brown, Richard H.: *See—*
Pugsley, Vern W.; Barhorst, Alphonso F.; and Brown, Richard H.,3,454,300.
Brown, Richard P.; and Lancor, Joseph H., Jr., to Consolidated Electrodynamics Corporation. Film guide. 3,421,675, 1-14-69, Cl. 226-196.
Brown, Richard P.; Lancor, Joseph H., Jr.; and Rak, Arthur, to Bell & Howell Company, mesne. Projection station. 3,457,006, 7-22-69, Cl. 352-132.
Brown, Richard W., to Control Data Corporation. Electromechanical transducer having a linear output. 3,474,332, 10-21-69, Cl. 324-34.
Brown, Robert A., to Duncan Electric Company, Inc. Exponential multiturn lost-motion device. 3,448,624, 6-10-69, Cl. 74-10.2
Brown, Robert A.Smoker's ash receiver and holder for riding saddles. 3,457,702, 7-29-69, Cl. 54-46.
Brown, Robert A.; and Brown, Clifford A., to Rem Metals Corporation. Method of making investment shell molds for the high integrity precision casting of reactive and refractory metals. 3,422,880, 1-21-69, Cl. 164-26.
Brown, Robert A.; and Reiff, Lewis D., Jr., to Duncan Electric Company, Inc. Block interval demand register with Geneva reset. 3,473,390, 10-21-69, Cl. 74-1.
Brown, Robert Alan, to Duncan Electric Company, Inc. Decade readout demand register. 3,486,111, 12-23-69, Cl. 324-103.
Brown, Robert F., Jr., to Geotechnical Corporation, (a Division of Teledyne Industries Inc.), The. Flux-gate head reading. 3,444,331, 5-13-69, Cl. 179-100.2
Brown, Robert F., Jr., to Teledyne Industries, Inc. Flux-gate head circuit. 3,444,332, 5-13-69, Cl. 179-100.2
Brown, Robert H.: *See—*
Olliff, Martin T., Jr.; Hecht, Alfred H.; Brown, Robert H.; and Brooks, William B.,3,421,965.
Brown, Robert J.; Kowalewski, John J.; and Moughty, John J., to Consolidated Foods Corporation, mesne. Airflow-electric coupling. 3,434,092, 3-18-69, Cl. 339-16.
Brown, Robert J.; and Moughty, John J., to Electrolux Corporation. Vacuum cleaner with cordwinder, wire harness, and electrical terminal board. 3,456,280, 7-22-69, Cl. 15-323.
Brown, Robert M., to Susquehanna Corporation, The. Timing circuit. 3,466,469, 9-9-69, Cl. 307-293.
Brown, Robert R.; and Schmidt, George F., to Standard Brands Chemical Industries, Inc. Copolymers of conjugated diolefins and partial esters of unsaturated polybasic acids. 3,422,050, 1-14-69, Cl. 260-29.7
Brown, Robinson W.: *See—*
Clark, John M., Jr.; Brown, Robinson W.; and Hemion, Roger H.,3,461,577.
Brown, Roger S. Pressure supplied paint roller. 3,441,355, 4-29-69, Cl. 401-219.
Brown, Roland. Space partitioning. 3,447,824, 6-3-69, Cl. 287-189.36
Brown, Roy J.: *See—*
Achelis, Frederic; Brown, Roy J.; Sherman, Roger M.; and Bibb, William M.,3,461,750.
Brown, Roy J., to Kor-It Company, Inc., The. Sheet-handling apparatus. 3,461,825, 8-19-69, Cl. 112-10.
Brown, Roy J., to Kor-It Company, Inc., The. Method and apparatus for turning and lining bags. 3,485,421, 12-23-69, Cl. 223-40.
Brown, Roy L. Hospital and ambulance patient handling equipment. 3,469,269, 9-30-69, Cl. 5-86.
Brown, S. G., Limited: *See—*
Barnett, Douglas, 3,420,112.
Myall, Norman John, 3,453,895.
Brown, Samuel E.: *See—*
McFadden, Thomas F.; and Schueler, Theodore A., 3,440,056.
McFadden, Thomas F.; and Schueler, Theodore A., 3,440,057.
Brown, Samuel, to Brown & Brown, Inc. Automatic laying and retrieving ground cover apparatus. 3,473,755, 10-21-69, Cl. 242-86.52
Brown, Silas A., to Buckbee-Mears Company. Method of manufacture of master pattern containing an array of dots. 3,467,560, 9-16-69, Cl. 156-6.
Brown, Stanley Clifford: *See—*
Reeve, Leonard; Brown, Stanley Clifford; and Beckett, Harold,3,469,296.
Brown, Sterling J., to United States of America, mesne. Positioning fixture for use in attaching impact fuse assemblies within the nose cap of a missile. 3,447,223, 6-3-69, Cl. 29-200.
Brown, Steven H.: *See—*
Bonilla, Charles F.; Brown, Steven H.; and Reiter, Sydney H.,3,483,381.
Brown, Thomas Desmond, to I.W.S. Nominee Company Limited. Textile process and device. 3,461,509, 8-19-69, Cl. 19-66.
Brown, Thomas D.: *See—*
Mickelson, Merlyn F.; and Brown, Thomas D.,3,434,939.
Brown, Thomas E.: *See—*
Swett, James B.; Bateman, Robert F.; and Brown, Thomas E.,3,484,035.
Brown, Thomas G., to Reed Manufacturing Company. Pipe finishing tool. 3,421,492, 1-14-69, Cl. 125-2.
Brown, Thomas G., to International Telephone and Telegraph Corporation. Error correction circuit for digital recording systems. 3,430,197, 2-25-69, Cl. 340-146.1
Brown, Thomas L.; and Vance, Paul E., to Belden Corporation. Cable with molded strain relief and method of making same. 3,439,112, 4-15-69, Cl. 174-153.
Brown, Thomas Theodore; Mullin, Leslie Raeburn; and Selves, Gerald Ernest, to Marconi Company Limited, The. Selective calling systems. 3,487,367, 12-30-69, Cl. 340-164.
Brown, Thomas Wagg. Suspender clip. 3,422,504, 1-21-69, Cl. 24-245.
Brown Tools, Inc.: *See—*
Brown, Joe R.; and Schwab, Carl M., 3,444,929.
Brown, Trevor Paul: *See—*
Jones, Alfred Illtyd Webber; and Brown, Trevor Paul,3,463,394.
Brown, Verle H., to Dick, E. Sam, Co., Inc. Standby liquefied petroleum gas unit. 3,469,956, 9-30-69, Cl. 48-102.
Brown, Victor, to New Life Foundation. Composting conveyor. 3,438,740, 4-15-69, Cl. 23-259.1
Brown, Victor, to Metropolitan Waste Conversion Corporation, mesne. Composting method for aerobic digestion of organic waste material. 3,451,799, 6-24-69, Cl. 71-9.
Brown, Walter J. Electrical control systems. 3,423,666, 1-21-69, Cl. 321-11.
Brown, Walter J. Rectifier control circuit for motor control. 3,470,439, 9-30-69, Cl. 318-331.
Brown, Walter L.; and Miller, Gabriel L., to Bell Telephone Laboratories, Incorporated. Detecting circuit for circularly polarized waves. 3,421,091, 1-7-69, Cl. 325-363.
Brown, Walter R. J., to United-Carr, Incorporated. Sintered coaxial cable. 3,429,982, 2-25-69, Cl. 174-102.
Brown, Walter R. J.: *See—*
Addis, David J.; Brown, Walter R. J.; and Osman, Martin S.,3,480,924.
Brown, Warren G., to International Telephone and Telegraph Corporation. Multiplex channel gate pulse generator from an intermixture of time division multiplex pulse trains. 3,437,755, 4-8-69, Cl. 178-50.
Brown, Warren G., to International Telephone and Telegraph Corporation. Time position selection system. 3,456,082, 7-15-69, Cl. 179-15.
Brown, Warren G.; and Lott, Roy E., Jr., to United States of America, Army, mesne. Multivibrator enabling circuit. 3,443,246, 5-6-69, Cl. 331-113.
Brown, Wayne R.; Cawley, Terence J.; and Van Tilburg, Robert W., to Corning Glass Works. Fluid operated apparatus. 3,429,324, 2-25-69, Cl. 137-81.5
Brown, Wayne S.; and Partridge, William S., to University of Utah. Continuous electrolplating apparatus. 3,463,719, 8-26-69, Cl. 204-216.
Brown, Wilbur P., Jr., to Hughes Aircraft Company. Iterated electro-optic prism deflector arrangement. 3,450,460, 6-17-69, Cl. 350-150.
Brown, Willard B.: *See—*
Lonadier, Frank D.; Brown, Willard B.; Fushimi, Fred C.; and Silver, Gary L.,3,438,749.
Brown, William B., to Western Electric Company, Incorporated. Methods of and apparatus for packaging longitudinal material. 3,439,483, 4-22-69, Cl. 57-6.
Brown, William C.; George, Roscoe H.; Heenan, Neil I.; and Wonson, Roger C., to Raytheon Company. Microwave to DC converter. 3,434,678, 3-25-69, Cl. 244-1.
Brown, William E.; and Garnier, John J., to Cutler-Hammer, Inc. Apparatus for returning ink mist back to its source. 3,460,475, 8-12-69, Cl. 101-350.
Brown, William E.; Heitz, Roberg G.; and Levine, Charles A., to Dow Chemical Company, The. Battery cell. 3,476,602, 11-4-69, Cl. 136-6.
Brown, William H., Jr.: *See—*
Greenberg, Avrom; Brown, William H., Jr.; Packard, Clifford B.; and Hackenberger, George I., Jr.,3,444,569.
Brown, William Haddon: *See—*
Hrishikesan, Kizhakke Govind; Kane, James Franklin; Teas, Edward Bruce; and Brown, William Haddon,3,469,935.
Brown, William H., to United Aircraft Corporation. Variable flow turbofan engine. 3,449,914, 6-17-69, Cl. 60-225.
Brown, William H., 'Automatic'Sprinkler Corporation of America, mesne. Demand valve. 3,467,137, 9-16-69, Cl. 137-494.
Brown, William J., to Bell Telephone Laboratories, Incorporated. Monitor circuit. 3,444,543, 5-13-69, Cl. 340-213.
Brown, William Lewis; and Schmucker, Morton Lee, to Morrell, John, & Co. Process for improving the color of comminuted meat. 3,477,859, 11-11-69, Cl. 99-159.
Brown, William M., to Continental Can Company, Inc. Partition for containers. 3,432,029, 3-11-69, Cl. 206-65.
Brown, William R., to Control Data Corporation, mesne. Ring-type flow meter. 3,449,954, 6-17-69, Cl. 73-212.
Brown, William R., to Control Data Corporation, mesne. Float operated liquid level transmitter. 3,459,042, 8-5-69, Cl. 73-313.
Brown, William R., to Control Data Corporation, mesne. In-flume transmitter. 3,460,387, 8-12-69, Cl. 73-313.

Browne, Andrew T. Low liquid level control device. 3,435,731, 4-1-69, Cl. 91-4.
Browne, Robert Y., to Girdler Corporation. Ammonia converter. 3,442,626, 5-6-69, Cl. 23-288.
Browne, Sidney, to Page Communications Engineers, Inc. Frequency shift diversity receiver with output determined by majority of inputs. 3,422,357, 1-14-69, Cl. 325-320.
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K., to Bell Telephone Laboratories, Incorporated. Remote switch unit in a common control telephone system. 3,426,158, 2-4-69, Cl. 179-27.
Brownell, David A. Pump assembly. 3,460,480, 8-12-69, Cl. 103-120.
Brownell, Gordon L.: *See—*
Fitzgerald, Joseph J.; and Brownell, Gordon L.,3,421,001.
Brownell, Roy D.; and Woolman, Granville, to Baldwin-Lima-Hamilton Corporation. Level-crowd control system for material handling loaders. 3,463,335, 8-26-69, Cl. 214-138.
Brownfield, Charles L.: *See—*
Meyer, Elwyn A.; and Brownfield, Charles L.,3,427,923.
Brownfield, Robert Bruce, to American Cyanamid Company. 16α,17α,21-Cyclic orthoesters of steroids. 3,464,980, 9-2-69, Cl. 260-239.55
Brownhill, Frank D.; and Walker, Michael K., to Rolls-Royce Limited. Temperature sensing device. 3,478,590, 11-18-69, Cl. 73-363.
Brownhill, Frank D.; Walker, Michael K.; and Ward, Peter A., to Rolls-Royce Limited. Temperature sensing device. 3,478,591, 11-18-69, Cl. 73-363.
Browning, Charles A., Jr. Test circuit for measuring and indicating breakdown voltage, RC time constant, and ERG dissipation of a gas diode. 3,432,745, 3-11-69, Cl. 324-24.
Browning Engineering Corporation: *See—*
Browning, James A.; and Fitzgerald, Ernest M., 3,463,249.
Browning, James A., 3,476,194.
Browning, James A., 3,482,640.
Browning, Gordon D. Container sorting apparatus. 3,441,132, 4-29-69, Cl. 209-72.
Browning, Iben. Camera apparatus and film. 3,427,942, 2-18-69, Cl. 95-11.
Browning, Iben. Portable copy machine. 3,445,164, 5-20-69, Cl. 355-82.
Browning, Iben; Geiger, William J.; and Strand, Edward R. Measuring method and apparatus. 3,435,667, 4-1-69, Cl. 73-65.
Browning Industries, Incorporated: *See—*
Browning, Val A., 3,421,243.
Browning, James A., to Thermal Dynamics Corporation. Electrothermal thruster. 3,425,223, 2-4-69, Cl. 60-203.
Browning, James A., to Browning Engineering Corporation. Flame jet drilling. 3,476,194, 11-4-69, Cl. 175-14.
Browning, James A., to Browning Engineering Corporation. Blast hole drilling method. 3,482,640, 12-9-69, Cl. 175-14.
Browning, James A.; and Fitzgerald, Ernest M., to Browning Engineering Corporation. Method of flame drilling with abrasives. 3,463,249, 8-26-69, Cl. 175-14.
Browning, James A.; and Pratt, Chapin A., to Thermal Dynamics Corporation. Electric arc torches. 3,472,995, 10-14-69, Cl. 219-75.
Browning, Luther C., to Addressograph-Multigraph Corporation. Photoelectrostatic recording member. 3,486,888, 12-30-69, Cl. 96-1.7
Browning, Val A., to Browning Industries, Incorporated. Firing mechanisms for double barrel, single trigger firearms. 3,421,243, 1-14-69, Cl. 42-42.
Browning, William C., to Milchem Incorporated. Drilling mud additive for filtration control. 3,441,504, 4-29-69, Cl. 252-8.5
Brownlee, William G. Surgical sponge and method of producing same. 3,464,415, 9-2-69, Cl. 128-296.
Brownlee, Winston E., to Parsons Corporation. Method of brazing attachments onto rotor blade spars. 3,419,954, 1-7-69, Cl. 29-482.
Brownlow, James M., to International Business Machines Corporation. Method of making magnetic thin film device. 3,480,522, 11-25-69, Cl. 204--040
Brownmiller, Lorrin T.: *See—*
Hersey, Arthur T.; and Brownmiller, Lorrin T.,3,447,937.
Brownscombe, Philip J., to Dietzgen, Eugene, Co. Film strip reeling apparatus. 3,480,358, 11-25-69, Cl. 353-26.
Brownstein, Arthur M., to Princeton Chemical Research, Inc. Anaerobic adhesive. 3,428,614, 2-18-69, Cl. 260-77.5
Brownstein, Arthur M., to Princeton Chemical Research Inc. Anaerobic adhesive. 3,451,980, 6-24-69, Cl. 260-78.5
Brownstein, Arthur M., to Princeton Chemical Research, Inc. Electrochemical acyloxylation process. 3,453,188, 7-1-69, Cl. 204-72.
Brownstein, Arthur M., to Princeton Chemical Research, Inc. Electrochemical acyloxylation process. 3,453,189, 7-1-69, Cl. 204-72.
Brownstein, Arthur M., to Princeton Chemical Research, Inc. Electrochemical acyloxyltion process. 3,453,190, 7-1-69, Cl. 204-72.
Brownstein, Arthur M.; and Pascale, John V., to Allied Chemical Corporation. Process for the preparation of isocyanates. 3,465,025, 9-2-69, Cl. 260-453.
Brownstein, Arthur M.; and Sibilia, John P., to Allied Chemical Corporation. Process for the preparation of isocyanates. 3,465,024, 9-2-69, Cl. 260-453.
Brownstein, Arthur M.; and Sibilia, John P., to Allied Chemical Corporation. Process for the preparation of isocyanates. 3,483,242, 12-9-69, Cl. 260-453.
Brownstein, Raymond G. Method for levelling sheet stock. 3,459,027, 8-5-69, Cl. 72-366.
Brownsword, John E., to Goodyear Tire & Rubber Company, The. Soluble cured polyester polyurethanes. 3,446,781, 5-27-69, Cl. 260-75.
Brownyer, Nelson R., to North American Rockwell Corporation. Method of making tapered spring leaf. 3,439,400, 4-22-69, Cl. 29-173.
Broxmeyer, Charles; and De Simone, Aldo, to Massachusetts Institute of Technology. Inertial reference unit. 3,426,592, 2-11-69, Cl. 73-178.
Broyden, Robert H., to Caterpillar Tractor Company. Positive indexing cranking system. 3,433,968, 3-18-69, Cl. 240-37.
Broyles, Horace N.: *See—*
Fox, Paul; and Broyles, Horace N.,3,451,373.
Broyles, James D.: *See—*
Sutton, Walter T., Jr.; Broyles, James D.; and Schweiger, Manfred U.,3,465,534.
Sutton, Walter T., Jr.; Broyles, James D.; Sims, James B.; and Botts, Nelson F.,3,475,830.
Broyles, William A., Jr., to LTV Aerospace Corporation. Ionic current proximity gage. 3,439,263, 4-15-69, Cl. 324-33.
Brozo, Donald E., to Burroughs Corporation. Sheet anti-creep apparatus for sheet stacking mechanisms. 3,421,755, 1-14-69, Cl. 271-68.
Brozo, Donald E., to Burroughs Corporation. Sheet deflection gate. 3,428,309, 2-18-69, Cl. 271-64.
Brozovich, John C.: *See—*
Davis, Steven S.; Davis, Kent L.; and Brozovich, John C.,3,473,669.
Brubaker, Robert D.: *See—*
Koslo, Robert C.; and Brubaker, Robert D.,3,471,230.
Brubaker, William McMinn. Fully mobile sit-on toy. 3,422,974, 1-21-69, Cl. 214-135.
Brubaker, Wilson M., to Bell & Howell Company. Tubular ion source for high efficiency ion generation. 3,421,035, 1-7-69, Cl. 313-63.
Brubaker, Wilson M., to Bell & Howell Company. Mass analyzer using two spaced, tubular, and coaxial electrodes. 3,473,018, 10-14-69, Cl. 250-41.9
Brubaker, Wilson M., to Bell & Howell Company. Mass analyzer with extension means to decrease the distance between electrode surfaces. 3,473,019, 10-14-69, Cl. 250-41.9
Brubaker, Wilson M., to Bell & Howell Company. Mass analyzer having series aligned curvilinear and rectilinear analyzer sections. 3,473,020, 10-14-69, Cl. 250-41.9
Brubaker, Wilson M.; and Berry, Clifford E., deceased0 (by Berry, Jean R.; executrix), to Bell & Howell Company, mesne. Mass spectrometer ion source having a laser to cause autoionization of gas. 3,478,204, 11-11-69, Cl. 250-41.9
Bruce, Alfred C.; and Britt, Thomas M. Packaging of bananas for shipment and controlled ripening. 3,436,231, 4-1-69, Cl. 99-171.
Bruce Berger Limited: *See—*
Ellis, Arthur J., 3,435,770.
Bruce, Michael Ian; Zwar, John; and Kefford, Noel Price. Treating harvested plant materials with urea de- rivatives. 3,469,965, 9-30-69, Cl. 71-68.
Bruce, Norman R. Ball-pitching machine with forced air assist. 3,459,168, 8-5-69, Cl. 124-11.
Bruce, Ralph E., to Production Control Units, Inc. Tube coupling assembly. 3,425,717, 2-4-69, Cl. 285-153.
Bruce, Robert S.; and Watt, John C., to Ethyl Corporation. Apparatus for transferring antiknock fluid. 3,438,409, 4-15-69, Cl. 141-59.
Bruce, Ronald G., to Continental Oil Company. Method and apparatus for continuously monitoring the progress of certain reactions. 3,478,111, 11-11-69, Cl. 260-615.
Bruce, Ross W.: *See—*
Dorsey, Denis P.; and Bruce, Ross W.,3,469,032.
Bruce, Sylvester E. Photoelectric ambient light sign control apparatus. 3,476,943, 11-4-69, Cl. 250-214.
Bruch, Forrest B., to Ethylene Gulf Coast Corporation. Apparatus for extrusion. 3,456,294, 7-22-69, Cl. 18-12.
Bruch, Walter, to Telefunken Patentverwertungsgesellschaft m.b.H. Phase distortion compensating circuit for PAL color television recording system. 3,474,190, 10-21-69, Cl. 178-5.4
Brucken, Byron L., to General Motors Corporation. Method of manufacture of wire fin and tube heat exchangers. 3,482,298, 12-9-69, Cl. 29-157.3
Brucken, Byron L.; and Deaton, Homer W., to General Motors Corporation. Transmission with constant speed electric clutch. 3,473,638, 10-21-69, Cl. 192-3.5
Brucker, Henry J.; and Jenkins, Bernard M., to American Aluminum Company. Gasketed closure. 3,428,209, 2-18-69, Cl. 220-46.

Brucker, Horst. Device for heating keys for defrosting frozen locks. 3,450,859, 617-69, Cl. 219-201.
Brucker, Jacques, to Constructeurs Associes Pour Le Montage d'Ouvrages Metalliques (C.A.M.O.M.) Societe Anonyme. Large-capacity liquid storage tanks. 3,469,731, 9-30-69, Cl. 220-26.
Bruckmann, Paul-Gunther; Logemann, Heino; and Suling, Carlhans, to Farbenfabriken Bayer Aktiengesellschaft. Artificial denture compositions and their production. 3,468,977, 9-23-69, Cl. 260-885.
Bruckmann, Paul; Logemann, Heino; and Suling, Carlhans, to Farbenfabriken Bayer Aktiengesellschaft. Transparent dentures. 3,446,875, 5-27-69, Cl. 260-885.
Bruckner, Alan J.: *See—*
Brothman, Abraham; Bruckner, Alan J.; Halpern, Stephen J.; and Yanis, Conrad,3,456,163.
Bruckner, Egon; and Westerboer, Ingo, to Oskar Vierling. Apparatus for measuring the rate of flow and direction of a gas stream. 3,435,676, 4-1-69, Cl. 73-189.
Bruckner, Germana: *See—*
Giannini, Umberto; and Bruckner, Germana,3,476,726.
Bruckner, Klaus, to Merck, E., A.G. 6-Halogeno-6-dehydro-3-keto-steroids. 3,462,425, 8-19-69, Cl. 260-239.55
Bruckner, Klaus; Beerstecher, Wolfgang; Kraft, Hans-Gunther; and Kieser, Hartmut, to Merck E., A.G.Progestational active 17α-alkoxy-16- methylene progesterones. 3,449,495, 6-10-69, Cl. 424-243.
Brucks, Walter H., to Hunt-Wesson Foods, Inc., mesne. Dunnage plug. 3,421,451, 1-14-69, Cl. 105-369.
Bruder, Alfred: *See—*
Schwake, Paul; and Bruder, Alfred,3,474,836.
Bruder, John F., to Sperry Rand Corporation. Plated-wire memory stack configuration. 3,484,765, 12-16-69, Cl. 340-174.
Bruder, John F.; and Fausett, Dale L., to Sperry Rand Corporation. Bit-organized sense line arrangement. 3,465,313, 9-2-69, Cl. 340-174.
Bruderer AG: *See—*
Bruderer, Egon, 3,422,688.
Bruderer, Egon, to Bruderer AG. Arrangement for counterbalancing the forces in crankshaft driven machines. 3,422,688, 1-21-69, Cl. 74-44.
Bruderlein, Francois T., to American Home Products Corporation. Esters of thioaconic acid. 3,452,050, 6-24-69, Cl. 260-343.6
Bruderlein, Francois T., to American Home Products Corporation. N-(hydroxyaryl)aconamides. 3,472,878, 10-14-69, Cl. 260-343.6
Brudi Equipment, Inc.: *See—*
Brudi, Ronald A.; and Cromer, Theodore L., 3,474,985.
Brudi, Ronald A.; and Cromer, Theodore L., to Brudi Equipment, Inc. Dual slack take-up reel unit for a pair of hose lines or cables. 3,474,985, 10-28-69, Cl. 242-107.11
Brudney, Harry, to Dollac Division, Jacoby-Bender, Inc. Synchronized rolling eyes for dolls. 3,421,255, 1-14-69, Cl. 46-167.
Brudney, Harry, to Dollac division, Jacoby-Bender, Inc. Controllable winking eye. 3,432,963, 3-18-69, Cl. 46-169.
Bruecher, Judith F.: *See—*
Buck, Henry M.; Bruecher, Judith F.; Carlton, Louis A.; and Pierce, Aaron E.,3,431,974.
Brueckmann, Helmut, to United States of America, Army. Underground antenna. 3,435,457, 3-25-69, Cl. 343-719.
Brueckmann, Helmut, to United States of America, Army. Method of installing subterranean antenna. 3,482,370, 12-9-69, Cl. 52-741.
Brueckner, Alexander W., to Lynch Corporation. Apparatus for calibrating carburetors. 3,469,442, 9-30-69, Cl. 73-118.
Brueder, Antoine, to Societe Anonyme Andre Citroen. Disc brakes, in particular for automobile vehicles. 3,424,275, 1-28-69, Cl. 188-73.
Bruehl, Anton, to Groff, Emory L., and Groff, Emory L., Jr. Mooring device for boats. 3,462,960, 8-26-69, Cl. 61-48.
Bruening, Lee P. Magnetic safety iron rest. 3,443,780, 5-13-69, Cl. 248-117.2
Bruet, Henri Rene, 1/2 to Etablissements A. Cazeneuve. Movable supports for the longitudinal master in copying devices. 3,429,208, 2-25-69, Cl. 82-14.
Bruet, Henri Rene, to Etablissements A. Cazeneuve. Carriage control devices for machine tools. 3,447,407, 6-3-69, Cl. 82-22.
Bruggeman, Morris J. Floating earthmoving apparatus. 3,486,253, 12-30-69, Cl. 37-54.
Bruggen, Kurt: *See—*
Trautzsch, Gottfried; and Bruggen, Kurt,3,482,806.
Brugger, Robert: *See—*
Gebauer, Karl; Brugger, Robert; and Heiling, Heinzfelix M.,3,447,953.
Brugger, Roger H.; and Salvisberg, Erwin E., to Salvisberg, Erwin. Channel adapted chiefly to protect a pipe line conveying electricity, gas or water. 3,420,017, 1-7-69, Cl. 52-221.
Brugger, Werner; and Hitz, Eugen, to Aktiengesellschaft Brown, Boveri & Cie. Induction crucible furnace comprising a rammed crucible. 3,457,356, 7-22-69, Cl. 13-27.
Brugh, Thomas H.: *See—*
Merkel, Charles M.; Salmon, Joe E.; and Brugh, Thomas H.,3,475,879.
Brugler, Joseph S., to United States of America, Navy. Target pulse enhancer and automatic gain control circuit. 3,487,163, 12-30-69, Cl. 178-7.2
Brugler, Richard L., to Chrysler Corporation. Room air conditioner. 3,438,219, 4-15-69, Cl. 62-262.
Brugmann, Jurgen: *See—*
Lofstrand, Warren A.; and Brugmann, Jurgen,3,431,432.
Brugnola, Anthony, deceased0 (by Brugnols, Kathrine W.; administratrix). Complementary modules and structures therefrom. 3,461,631, 8-19-69, Cl. 52-585.
Brugnols, Kathrine W.: *See—*
Brugnola, Anthony,3,461,631.
Bruhin, Paul: *See—*
Dosch, Peter; Benz, Emil; and Bruhin, Paul,3,467,149.
Bruhl, Donald A., Jr.: *See—*
Counts, William E.; and Bruhl, Donald A., Jr.,3,479,216.
Bruhn, Richard A.; and Newland, Findlay E., to Chrysler Corporation. Tilting support apparatus. 3,430,907, 3-4-69, Cl. 248-140.
Bruhn, Wilhelm; and Pollinger, Hans, to Knorr-Bremse GmbH. Air brake cylinder with slack adjuster. 3,482,662, 12-9-69, Cl. 188-196.
Bruhne, Friedrich: *See—*
Raichle, Karl; Bruhne, Friedrich; Prater, Klaus; Nischk, Gunther; and Andres, Karl-Heinz,3,467,619.
Bruin, James; and Damitz, Clyde O., to Ford Motor Company. Double chamber single piston hydraulic actuating device. 3,472,344, 10-14-69, Cl. 188-152.
Bruins, Paul F.; Benghiat, Isaac; and Frost, Harold R., to Hexagon Laboratories, Incorporated. Surface treatment for polystyrene which is to be electroless plated and compositions therefor. 3,472,678, 10-14-69, Cl. 117-47.
Bruinsma, Norman G., to Gleason Works, The. Work seating and chucking diameter checking apparatus for workholders. 3,456,955, 7-22-69, Cl. 279-2.
Bruist, Edmond H., to Shell Oil Company. Consolidation of oil-bearing formations. 3,483,926, 12-16-69, Cl. 166-288.
Bruist, Edmond Hubert, to Shell Oil Company. Reverse combustion method of recovering oil from steeply dipping reservoir interval. 3,474,862, 10-28-69, Cl. 166-258.
Brukker, Alexander E.; and Judd, Claude I., to Colgate-Palmolive Company. 2-Anilinoquinolines. 3,435,041, 3-25-69, Cl. 260-288.
Brule Incinerator Corporation: *See—*
Sharpe, Peter S., 3,446,163.
Brule, Roger, to Roussel-UcLaf. Process for treating fatigue with calcium glucose-1-phosphate. 3,433,869, 3-18-69, Cl. 424-180.
Brumbaugh, Bertrand L.: *See—*
Overstreet, Le Roy B.; Brumbaugh, Eugene P.; and Brumbaugh, Bertrand L.,3,475,889.
Brumbaugh, Eugene P.: *See—*
Overstreet, Le Roy B.; Brumbaugh, Eugene P.; and Brumbaugh, Bertrand L.,3,475,889.
Brumberger Company, Inc.: *See—*
Gruber, Cyril H., 3,475,848.
Brumble, James T., Jr., to Esso Production Research Company. Method and apparatus for well operations. 3,426,849, 2-11-69, Cl. 166-255.
Brumelle, Clifton B. Lock construction. 3,431,754, 3-11-69, Cl. 70-144.
Brumfield, Daniel T. Apparatus for connecting electrical fence conductors to metal fence posts. 3,457,358, 7-22-69, Cl. 174-45.
Brumfield, Elmer B. Coffee dispenser. 3,465,920, 9-9-69, Cl. 222-154.
Brumfield, John C., to I-T-E Imperial Corporation. Circuit breaker contact separation initiator. 3,466,578, 9-9-69, Cl. 335-172.
Brumfield, John C.: *See—*
Shaffer, Howard R.; and Brumfield, John C.,3,474,363.
Brumfield, Philip E.: *See—*
Rudner, Bernard; and Brumfield, Philip E.,3,424,720.
Brumfield, Pilip E., to Commercial Solvents Corporation. Process for preparing amino alkylethers wherein the amino groups is attached to a tertiary carbon atom. 3,472,899, 10-14-69, Cl. 260-584.
Brumley, Corwin H.; and Ferris, John T., to Bausch & Lomb Incorporated. Optical fiber bundle coupling system. 3,455,625, 7-15-69, Cl. 350-96.
Brumlik, George C. Molecular model assembly. 3,466,759, 9-16-69, Cl. 35-18.
Brumm, Gerhard, to Cerberus AG. Gas-filled overvoltage arrester for telecommunication installations. 3,450,923, 6-17-69, Cl. 313-210.
Brumm, Richard S.: *See—*
Bryant, Austin U.; and Brumm, Richard S.,3,422,840.
Brumm, Richard S., to Grove Valve and Regulator Company. Valve construction. 3,479,004, 11-18-69, Cl. 251-118.
Brummans, Wilhelmus Johnnes, to AMP Incorporated. Electrical connector housing. 3,441,661, 4-29-69, Cl. 174-138.

Brumme, Fritz; and Boehme, Horst, to Effbe-Werke Fritz Brumme KG. Expansion tank for hot-water heating systems. 3,434,660, 3-25-69, Cl. 237-66.

Brummel, Roger L.: *See—*
Upton, Norman W.; Kemper, Eugene L.; and Brummel, Roger L.,3,459,313.

Brun, Anatole: *See—*
Pfarrwaller, Erwin; and Brun, Anatole,3,455,341.

Brun Sensor Systems, Inc.: *See—*
Brunton, Donald C.; and Richter, John M., 3,460,030.

Brunaud, Marcel Daniel Pierre: *See—*
Schmitt, Josef; and Brunaud, Marcel Daniel Pierre,3,437,731.

Brundage Company, The: *See—*
Jolette, Gerald P., 3,450,337.

Brundage, Richard B. Motor starting device. 3,423,612, 1-21-69, Cl. 310-68.

Brundage, Robert Wesley. Hydraulically released friction clutch. 3,461,993, 8-19-69, Cl. 192-91.

Brundage, Robert W. Pressure balanced bearing loads in hydraulic devices. 3,427,983, 2-18-69, Cl. 103-126.

Brundell & Jonsson Aktiebolag: *See—*
Wexell, Harry W., 3,461,931.

Brundell Och Jonsson AB: *See—*
Wexell, Harry Wilhelm, 3,452,793.

Brundige, Maurice M.; Hunger, Gunther K.; and Kohne, Harry F., Jr., to West Virginia Pulp and Paper Company. Cellulose derivative compositions and paper containing the derivatives. 3,441,473, 4-29-69, Cl. 162-146.

Bruneau, Bertrand, to Cady Industries Limited. Track and drive assembly for track-laying vehicles. 3,451,728, 6-24-69, Cl. 305-13.

Brunel, Henri. Product for protecting against and inhibiting corrosion. 3,467,533, 9-16-69, Cl. 106-14.

Brunel, Henri. Products from acid sludges. 3,470,006, 9-30-69, Cl. 106-123.

Brunelle, Ronald D.: *See—*
Wilson, Henry L.; and Brunelle, Ronald D.,3,484,540.

Brunelle, Thomas E.: *See—*
Rue, Larry M.; Brunelle, Thomas E.; and Mizuno, William G.,3,444,242.

Brunelli, Angelo J. Automobile wheel lock. 3,423,971, 1-28-69, Cl. 70-231.

Bruner, James D.: *See—*
Richter, Albert P., Jr.; and Bruner, James D.,3,451,263.
Richter, Albert P., Jr.; and Bruner, James D.,3,465,582.
Richter, Albert P., Jr.; and Bruner, James D.,3,466,597.
Richter, Albert P., Jr.; and Bruner, James D.,3,486,107.

Bruner, John M. R. Lighting. 3,459,935, 8-5-69, Cl. 240-52.

Bruner, Robert L.; and Rahmes, Donald W., to Corn Products Company. Novel starch composition and method of preparation. 3,485,776, 12-23-69, Cl. 260-17.3

Bruner, Walter Martin: *See—*
Busse, Warren Froemming; and Bruner, Walter Martin,3,485,793.

Brunet, Louis L. B., to S.A. Zuccolo Rochet & Cie. Watch band adjustable clasp. 3,429,142, 2-25-69, Cl. 63-4.

Brunet, Louise, to French Beauty Inc., The. Eyeline guide. 3,485,251, 12-23-69, Cl. 132-88.5

Brunette, Fredrick F. Bicycle tire display racks. 3,435,955, 4-1-69, Cl. 211-24.

Brunette, Fredrick F. Rack for binding bundles. 3,459,120, 8-5-69, Cl. 100-34.

Bruni, Hansrudolf; and Nyffenegger, Heinz, to Cementfabrik Holderbank-Wildegg AG. Permeability cell. 3,433,056, 3-18-69, Cl. 73-38.

Bruni, Hansrudolf: *See—*
Schmid, Alfred; Nyffenegger, Heinz; and Bruni, Hansrudolf,3,482,787.

Bruni, Maurice: *See—*
Agneray, Louis; Bruni, Maurice; and Clayer, Arlette,3,482,881.

Brunichc-Olsen, Henning Anton, to Aktieselskabet de Danske Sukkerfabrikker. Lixiviating apparatus. 3,471,328, 10-7-69, Cl. 127-5.

Brunie, Jean Claude; and Crenne, Noel, to Rhone-Poulènc S.A. Process for the oxidation of cycloalkanes. 3,479,394, 11-18-69, Cl. 260-462.

Brunig, William D., to Bennett-Ireland, Inc. Glass fireplace screen having improved draft control. 3,457,907, 7-29-69, Cl. 126-140.

Bruning, Armin M.: *See—*
Kemeny, George A.; Franzen, Wayne E.; Maniero, Daniel A.; and Bruning, Armin M.,3,474,279.

Bruning, Armin M.; and Kienast, Peter F., to Westinghouse Electric Corporation. Arc heater apparatus for chemical processing. 3,445,191, 5-20-69, Cl. 23-277.

Bruning, Earl F. Self-cleaning fluid coupling. 3,464,436, 9-2-69, Cl. 137-237.

Bruninga, Kenneth J., to Nelson, L. R., Mfg. Co., Inc. Sprinkler irrigation device with improved hose handling means and method of deploying the same preparatory to a sprinkler irrigation cycle. 3,477,643, 11-11-69, Cl. 239-1.

Brunlid, John Erik, to AB Tetra Pak. Sheet material having an overlap seam and method of forming same. 3,486,964, 12-30-69, Cl. 161-38.

Brunnee, Curt; and Kappus, Gunter, to Atlas Meb-&-Analysentechnik G.m.b.H. Mass spectroscopes having means for focusing the ion beam in synchronism with the scanning voltage. 3,426,192, 2-4-69, Cl. 250-41.9

Brunnee, Curt; and Kappus, Gunter, to Varian mat G.m.b.H. Magazine feed of sample with thermal isolation of sample from ionization chamber. 3,431,451, 3-4-69, Cl. 313-231.

Brunnee, Curt; and Kappus, Gunter, to Varian MAT G.m.b.H., mesne. Mass spectroscope having means for compensating for electron space charge in the ion source. 3,444,366, 5-13-69, Cl. 250-41.9

Brunner, Alfred, to Sulzer Brothers, Limited. Heat exchanger. 3,450,198, 6-17-69, Cl. 165-101.

Brunner, Alfred, to Sulzer Brothers Limited. Irradiation apparatus with specific means to load and unload a chain conveyor. 3,452,195, 6-24-69, Cl. 250-52.

Brunner, Alfred, to Sulzer Brothers, Limited. Irradiation plant. 3,454,761, 7-8-69, Cl. 250-52.

Brunner, Alfred, to Sulzer Brothers Limited. Combustion chambers of angular cross-section for steam-raising plants. 3,467,068, 9-16-69, Cl. 122-510.

Brunner, Alfred, to Sulzer Brothers, Ltd. Panel shaped heating surface for combustion chambers. 3,478,724, 11-18-69, Cl. 122-235.

Brunner, Augusto J.; Costa, Fulvio; and Falcone, Luigi, to FLEXA Industria Materie Plastiche S.p.A. Waterproof fabric and method for forming the same. 3,481,821, 12-2-69, Cl. 161-53.

Brunner Bros., Co.: *See—*
Brunner, Frederick T., 3,463,692.

Brunner, Eduard R., to Radio Corporation of America. Television deflection circuit with linearity correction feedback. 3,432,720, 3-11-69, Cl. 315-27.

Brunner, Emil; Hasler, Hans; and Huber, Alfred, to Lonza Ltd. Method of producing cellular bodies. 3,436,445, 4-1-69, Cl. 264-50.

Brunner, Frederick T., to Brunner Bros., Co. Thermoplastic Schiffli embroidery and method of laminating same to base. 3,463,692, 8-26-69, Cl. 156-306.

Brunner, Fritz. Marking and projection lamp for aircraft runways. 3,466,435, 9-9-69, Cl. 240-1.2

Brunner, Gerald F., to Towmotor Corporation. Oil clutch cooling apparatus. 3,452,848, 7-1-69, Cl. 192-113.

Brunner, Hans A.; and Whiteman, Benton A., to Reynolds Metals Company. Core carrying mandrel. 3,420,465, 1-7-69, Cl. 242-72.1

Brunner, Heinz, to Telefunken Patentverwertungsgesellschaft m.b.H. Antenna system for a secondary radar installation. 3,427,621, 2-11-69, Cl. 343-100.

Brunner, Julius; and Rainer, Erich, to Siemens Aktiengesellschaft. Brushless direct-current motor with hall-generator control. 3,483,456, 12-9-69, Cl. 318-138.

Brunner, Julius; and Rainer, Erich. Brushless direct-current motor. 3,486,099, 12-23-69, Cl. 318-254.

Brunner, Karl H. Dough knot forming machine and process. 3,485,185, 12-23-69, Cl. 107-9.

Brunner, Richard, to American Standard, Inc. Swirl meter. 3,434,344, 3-25-69, Cl. 73-194.

Brunner, Robert F.; and Garrett, Wayne O. Ejector and mold plate attachment for plastic molding machines. 3,433,450, 3-18-69, Cl. 249-67.

Brunner, Robert F.; and Van Pelt, Charles H. C. Insect bait dispenser. 3,427,743, 2-18-69, Cl. 43-131.

Brunner, Rolf H.; and Weber, Edward V., to International Business Machines Corporation. Method and apparatus for positioning objects in preselected orientations. 3,466,514, 9-9-69, Cl. 318-18.

Brunner, Rudolf. Front toe piece for safety ski bindings. 3,462,165, 8-19-69, Cl. 280-11.35

Brunnmueller, Friedrich: *See—*
Goelz, Horst; Suter, Hubert; Brunnmueller, Friedrich; and Palm, Albert,3,449,412.

Bruno, Anthony J., Jr.: *See—*
Legal, Casimer C., Jr.; Richmond, Alvin; and Bruno, Anthony J., Jr.,3,433,617.

Bruno, Gerald A.; Haney, Thomas A.; Numerof, Paul; and Reinhardt, Karl, to Squibb, E. R., & Sons, Inc. Process for preparing sterile radioactive material of the parent-daughter type. 3,440,423, 4-22-69, Cl. 250-106.

Bruno, Guenter, to Mobil Oil Corporation. Derivatives of the growth reaction of ethylene with trihydrodicyclopentadienyl aluminum. 3,476,788, 11-4-69, Cl. 260-448.

Bruno, Guenter, to Mobil Oil Corporation. Method for preparing trihydrodicyclopentadienyl aluminum and substituted derivatives thereof. 3,476,789, 11-4-69, Cl. 260-448.

Bruno, Joseph S.: *See—*
Reinhadt, Robert M.; and Bruno, Joseph S.,3,450,485.

Bruno, Louis D.: *See—*
Becker, Adam; Greene, Gorge W., Jr.; and Bruno, Louis D.,3,438,628.

Bruns, Edward C., to Cincinnati Milling Machine Co., The. Gap closer for material cutting machine. 3,465,630, 9-9-69, Cl. 83-424.
Bruns, Eilert F. Slide feed. 3,486,676, 12-30-69, Cl. 226-149.
Bruns, Herbert F. Air distribution apparatus. 3,482,506, 12-9-69, Cl. 98-40.
Bruns, Klaus: *See*—
Sandermann, Wilhelm; and Bruns, Klaus,3,427,328.
Bruns, Lester E.: *See*—
Schulz, Wallace W.; Schiefelbein, Gary F.; and Bruns, Lester E.,3,463,739.
Bruns, William Henry, to Otis Elevator Company. Analog computer variable interval dispatcher for an elevator system with trip time as a measure of traffic. 3,422,928, 1-21-69, Cl. 187-29.
Brunsch, Klaus, to Bolkow Gesellschaft mit beschrankter Haftung. Rotor blade construction. 3,476,484, 11-4-69, Cl. 416-230.
Brunsdon, William E.: *See*—
Keller, Robert C.; and Brunsdon, William E.,3,466,942.
Brunskole, Josef H., to Canadian Seating Company Limited. Collapsible chair. 3,443,835, 5-13-69, Cl. 297-35.
Brunson, Amber N., to Brunson Instrument Company. Focal plane micrometer for reading the scales of engineering instruments. 3,433,571, 3-18-69, Cl. 356-139.
Brunson, Bruce W., to Werner Machinery Company. Oven with band conveyor. 3,448,700, 6-10-69, Cl. 107-57.
Brunson, Bruce W., to Werner Machinery Company. Dusting machine. 3,481,307, 12-2-69, Cl. 118-24.
Brunson, Bruce W.; and Bos, Ronald D., to Werner Machinery Company. Slitter mechanism. 3,459,088, 8-5-69, Cl. 83-522.
Brunson Instrument Company: *See*—
Brunson, Amber N., 3,433,571.
Brunson, Marion O., to Eastman Kodak Company. Reaction products of unsaturated dicarboxylic acids, anhydrides, esters with degraded poly-alpha-olefin polymers. 3,481,910, 12-2-69, Cl. 260-78.4
Brunson, Marion O.; and McGillen, William D., to Eastman Kodak Company. Preparation of polyamide-carboxylated polyolefin melt blends. 3,484,403, 12-16-69, Cl. 260-23.
Brunson, Marion Otis, to Eastman Kodak Company. Amulsifiable polyolefin composition and process for its preparation. 3,433,777, 3-18-69, Cl. 260-88.2
Brunson, Thayer R.: *See*—
Davis, Harold G.; and Brunson, Thayer R.,3,452,177.
Brunswick Corporation: *See*—
Acton, Hugh C., 3,427,086.
Alley, Ralph D.; and Sheridan, David S., 3,459,189.
Anderson, Robert I.; and Bayne, Donald E., 3,459,107.
Anderson, Robert I.; and Bayne, Donald E., 3,466,048.
Baldwin, Bradford J.; Cornell, William D.; Hoffman, Paul R.; and Russell, Jack A., 3,469,905.
Bentov, Itzhak E., 3,474,791.
Berry, Foster W.; and Cogger, Kenneth O., 3,436,079.
Boeing, Robert B., 3,456,366.
Byrd, Joseph L.; and Allen, William M., 3,466,041.
Cornell, William D.; and Uecker, Donald F., 3,420,524.
Cornell, William D.; Disney, Morton F., Jr.; and Hoffman, Paul R., 3,435,120.
Cornell, William D., 3,447,804.
Cornell, William D., 3,459,424.
Cornell, William D., 3,469,454.
Deuschle, Frita, 3,481,367.
Deuschle, Fritz, 3,459,177.
Deuschle, Fritz; and Walker, Clarence L., 3,473,225.
Edgerton, Charles Willis, Jr., 3,448,786.
Hoffman, Paul R.; Disney, Morton F., Jr.; Norgren, Edwin A.; and Cornell, William D., 3,484,107.
Huck, William F.; and Urban, Joseph, 3,433,479.
Kane, Dennis P.; and Van Sant, William A., Jr., 3,458,206.
Kiekhaefer, Elmer C., 3,434,250.
Kiekhaefer, Elmer C., 3,434,251.
Kiekhaefer, Elmer Carl, 3,455,073.
McCormick, Daniel F., 3,434,450.
Minks, Floyd M., 3,421,069.
Minks, Floyd M., 3,427,502.
Minks, Floyd M., 3,435,265.
Minks, Floyd M., 3,440,589.
Minks, Floyd M., 3,448,423.
Minks, Floyd M., 3,462,644.
North, Irving W., 3,434,449.
North, Irving W.; and Woodfill, William L., 3,447,564.
Plumpe, William H., Jr., 3,438,244.
Roberts, John A.; and Surprenant, Norman F., 3,482,703.
Rockwood, Albert M.; and Schroder, John D., 3,458,193.
Satchell, Fred E.; Conklin, Robert M.; and Weisz, John J., 3,445,113.
Satchell, Fred E.; and Berry, Foster W., 3,477,364.
Satchell, Fred E.; Rytina, Anton W.; and Trier, Louis J., 3,477,721.
Szymanski, Richard, 3,477,719.
Torresen, Robert, 3,445,876.
Torresen, Robert, 3,480,276.
Untiedt, Miles E., 3,455,551.
Webber, Harold H., 3,467,478.
Webber, Harold H., 3,469,297.
Webber, Harold H.; and Riordan, Pauline F., 3,472,289.
Weichselbaum, Theodore E., 3,446,751.
Weichselbaum, Theodore E., 3,464,890.
Weichselbaum, Theodore E.; and Zmuda, Benjamin D., 3,467,617.
Woodfill, William L., 3,434,448.
Brunton, Donald C., to Industrial Nucleonics Corporation. Radiation sensitive structure determining apparatus. 3,435,240, 3-25-69, Cl. 250-219.
Brunton, Donald C.; and Richter, John M., to Brun Sensor Systems, Inc. Method and apparatus for measuring the percent moisture content in process material utilizing microwave absorption and a deverse radiant energy absorption technique. 3,460,030, 8-5-69, Cl. 324-58.5
Brunton, Phillip E., to Gamma Inventions (PTY) Limited. Jigsaw puzzles. 3,485,496, 12-23-69, Cl. 273-157.
Brunton, Robert H., to United States of America, Army, mesne. Fast recovery switch limiter circuit. 3,448,414, 6-3-69, Cl. 333-98.
Brush Manufacturing Co., Inc.: *See*—
Krabal, Anthony J., 3,441,970.
Brush, Stanley E.; and Crouse, Parker E., to Bell Telephone Laboratories, Incorporated. Polarized dual lamp unit with polarizing diodes. 3,454,826, 7-8-69, Cl. 315-71.
Bruson, Herman A.; and Plant, Howard L., to Olin Mathieson Chemical Corporation. Beta-disubstituted alpha-indanones and the process for preparing them from aryl- substituted aliphatic halides. 3,466,332, 9-9-69, Cl. 260-590.
Bruson, Herman A.; and Plant, Howard L., to Olin Mathieson Chemical Corporation. Process for preparing beta-disubstituted alpha-indanones. 3,466,333, 9-9-69, Cl. 260-590.
Bruss, Howard G., Jr.; Schlientz, Walter J.; and Wiens, Bradley E., to Owens-Illinois, Inc. Abrasion resistant glass article and method for producing same. 3,445,269, 5-20-69, Cl. 117-88.
Brussen, Reinier Willem: *See*—
Bussink, Jam; and Brussen, Reinier Willem,3,453,231.
Brust, Albert E.: *See*—
Bell, Richard J.; Campbell, Robert L.; Brust, Albert E.; and Custer, Lloyd R.,3,455,699.
Brust, Bernard; Fryer, Rodney Ian; and Sterbach, Leo Henryk, to Hoffmann-La Roche, Inc.1,3-Di-(4-piperidyl, propane derivatives. 3,420,836, 1-7-69, Cl. 260-293.
Brust, Bernar; Fryer, Rodney Ian; and Sternbach, Leo Henryk, to Hoffmann-La Roche, Inc.1,3-Di-(4-pyridyl,propane derivatives. 3,420,841, 1-7-69, Cl. 260-296.
Brust, Harry F., to Dow Chemical Company, The. Dihalosulfones. 3,437,685, 4-8-69, Cl. 260-481.
Brustle, Heinz H.; and Fisher, Franklin A., to General Electric Company. Test equipment for identification and location of electrical faults in fluid-filled electric apparatus. 3,430,136, 2-25-69, Cl. 324-52.
Bruun, Knud I.: *See*—
Abercrombie, Bolling A., 3,439,626.
Bruyere, Jean-Claude: *See*—
Neel, Louis; Bruyere, Jean-Claude; Massenet, Olivier; and Montmory, Robert,3,484,757.
Bry, Thomas S.: *See*—
Sarett, Lewis H.; Bry, Thomas S.; Fried, John; Oberster, Arthur E.; and Beyler, Roger E.,3,452,007.
Bryan, Carney J.: *See*—
Scherr, Robert E.; McHose, Andre H.; Campbell, Ian P.; and Bryan, Carney J.,3,448,705.
Bryan Donkin Company Limited, The: *See*—
Farrer, Sydney, 3,422,841.
Bryan, Geoffrey J., to Senior Products Limited. Manufacture of boxes or cartons. 3,443,491, 5-13-69, Cl. 93-58.4
Bryan, Harry A.; and Reynolds, Joseph C., to Girdler Corporation. Falling film heat exchanger. 3,437,124, 4-8-69, Cl. 159-13.
Bryan, Hugh D.: *See*—
Mercer, Neil H.; and Bryan, Hugh D.,3,467,754.
Bryan, James F., to Esso Research and Engineering Company. Mooring system for tanker vessels. 3,464,466, 9-2-69, Cl. 141-346.
Bryan, John F., Jr., to Trakwork Equipment Company. Railroad ballast handling system. 3,427,990, 2-18-69, Cl. 104-2.
Bryan, John L., Jr.: *See*—
Ray, Richard Louis; Segura, Marnell A.; and Bryan, John L., Jr.,3,433,775.
Bryan, Leonard T. F., to Detexomat Limited. Automatic toe closing of stockings. 3,429,284, 2-25-69, Cl. 112-2.
Bryan, Leonard Thomas Frank: *See*—
Haselgrove, Bob; Dorsett, Ronald; and Bryan, Leonard Thomas Frank,3,439,637.
Bryan, Loren Aldro, to Great Lakes Carbon Corporation. Reduction of arylnitroalkenes. 3,458,576, 7-29-69, Cl. 260-570.8
Bryan, Martha T. Method of threading needle. 3,482,539, 12-9-69, Cl. 112-262.
Bryan, Morris M., Jr., to Jefferson Mills, Inc., The. Method and apparatus for forming loom beam. 3,441,991, 5-6-69, Cl. 28-28.

Bryan, Morris M., Jr., to Jefferson Mills, Inc., The. Variable speed spinning frame. 3,443,373, 5-13-69, Cl. 57-98.
Bryan, Morris M., Jr., to Jefferson Mills, Inc., The. Method of cleaning fibers. 3,483,598, 12-16-69, Cl. 19-105.
Bryan, Morris M., Jr.; and Roberts, Morris W. Monitoring device for spinning frame. 3,430,426, 3-4-69, Cl. 57-34.
Bryan, Morris M., Jr.; and Roberts, Morris W., to Jefferson Mills, Inc., The. Self-monitoring card. 3,441,984, 5-6-69, Cl. 19-0.23
Bryan, Morris M., Jr.; and Roberts, Morris W., to Jefferson Mills, Inc., The. Self-monitoring roving frame. 3,448,492, 6-10-69, Cl. 19-0.23
Bryan, Morris M., Jr.; and Roberts, Morris W., to Jefferson Mills, Inc., The. Self-monitoring automatic winder. 3,448,936, 6-10-69, Cl. 242-35.5
Bryan, Richard C., to Crompton & Knowles Corporation. Continuous strand pressure impregnator. 3,450,094, 6-17-69, Cl. 118-10.
Bryan, Roland F., to Bunker-Ramo Corporation, The. Data compression system. 3,438,003, 4-8-69, Cl. 340-172.5
Bryan, Thomas M., II: *See*—
Elsas, Norman E.; and Bryan, Thomas M., II,3,460,212.
Bryan, Thomas Toplica, to Minnesota Mining and Manufacturing Company. Photosensitive silver halide microcapsules. 3,443,948, 5-13-69, Cl. 96-67.
Bryan, Thomas Toplica, to Minnesota Mining and Manufacturing Company. Preparation of silver salts of organic carboxylic acids. 3,458,544, 7-29-69, Cl. 260-414.
Bryand, Edward T., to Metal-Tech Inc. Conical honeycomb structure. 3,480,148, 11-25-69, Cl. 210-380.
Bryant, Austin U., to Grove Valve and Regulator Company. Packing means. 3,467,394, 9-16-69, Cl. 277-1.
Bryant, Austin U.; and Brumm, Richard S., to Grove Valve and Regulator Company. Relief valve with resilient seal means. 3,422,840, 1-21-69, Cl. 137-384.
Bryant, Austin U.; and Combes, Marvin G., to Grove Valve and Regulator Company. Valve construction with retractable seat rings. 3,425,662, 2-4-69, Cl. 251-176.
Bryant, Bill J.: *See*—
Daubenberger, Charles B.; Bryant, Bill J.; and Daubenberger, Charles J.,3,462,161.
Bryant, Charles R. Prefabricated masonry firebox. 3,460,525, 8-12-69, Cl. 126-120.
Bryant Chucking Grinder Co.: *See*—
Boyd, Walter A., Jr.; and Lakso, Hugo A., 3,481,319.
Lakso, Hugo A., 3,438,156.
Lillie, Gordon E., 3,451,176.
Bryant, Ellis H., Jr., to Audichron Company, The. Telephone announcement control to select message content for normal and overload subscriber conditions. 3,478,168, 11-11-69, Cl. 179-6.
Bryant, Emerson C., to National-Standard Company. Tire treading apparatus. 3,455,764, 7-15-69, Cl. 156-405.
Bryant, Eugene E.: *See*—
Fleck, George J.; and Bryant, Eugene E.,3,452,385.
Bryant, George F.: *See*—
Collingwood, George H.; Demas, Harry J.; and Bryant, George F.,3,460,336.
Bryant, George M.: *See*—
Walter, Andrew T.; Bryant, George M.; and Purcell, Chester L.,3,472,825.
Zutty, Nathan L.; Welch, Frank J.; Sullivan, Edward M.; Bryant, George M.; and Walter, Andrew T.,3,437,719.
Bryant, Harold D.; and Motorola, Inc. Frequency dividing system including transistor oscillator energized by pulses derived from wave to be divided. 3,478,225, 11-11-69, Cl. 307-220.
Bryant, Herbert W.; Hazell, Norman C.; and Mosing, Lionel W., to Bell Telephone Laboratories, Incorporated. Telephone headset with adjustable speech tube. 3,440,365, 4-22-69, Cl. 179-152.
Bryant, Horace B., Jr., to Air Reduction Company, Incorporated. Supply of high-pressure combustion- supporting gas to wells. 3,422,892, 1-21-69, Cl. 166-40.
Bryant, James Timothy: *See*—
Greenleaf, Leland B.; and Bryant, James Timothy,3,421,399.
Bryant, John F., to Stromberg-Carlson Corporation. Scanner employing interleaved light conducting and light detecting optical fibers. 3,467,774, 9-16-69, Cl. 178-7.2
Bryant, Sherman G. Lure head with diving vane. 3,426,467, 2-11-69, Cl. 43-42.28
Bryant, Walter Kenneth; and Hicks, Harris Vernon, to Lucas, Joseph, (Industries) Limited. Vehicle lamps. 3,486,019, 12-23-69, Cl. 240-46.01
Bryce, Douglas Maxwell; and Rooke, Michael Brian, to Boots Pure Drug Company Limited. Sunscreen composition and method of using the same. 3,479,428, 11-18-69, Cl. 424-60.
Bryce, John R. G.; and Kleinert, Theodor N., to Domtar Limited, and Pulp and Paper Research Institute of Canada. Pulping process. 3,448,002, 6-3-69, Cl. 162-19.
Bryce-Smith, Derek; Gilbert, Andrew; and Vickery, Brian. Photochemical process for producing adducts. 3,480,532, 11-25-69, Cl. 204-158.
Brychta, Ondrej; Tlucko, Josef; Kolik, Ondrej; and Capla, Miroslav, to Chirana, Zavody zdravotnickej techniky, odborovy Podnik. Apparatus for the control of pressure respirator. 3,465,752, 9-9-69, Cl. 128-145.8
Bryer, Robert George, to Stephen, R. A., & Company. Portable electroscope type dosimeter. 3,459,940, 8-5-69, Cl. 250-83.3
Bryk, Petri; Honkasalo, Jorma B.; Malmstrom, Rolf; Aaltonen, Olavi; and Palperi, Matti, to Outokumpu Oy. Grate in a fluidized bed furnace. 3,460,491, 8-12-69, Cl. 110-69.
Brylev, Anatoli Ivanovich: *See*—
Kiselev, Vasily Vasilievich; Ryabukha, Alexandr Yakovlevich; and Brylev, Anatoli Ivanovich,3,485,075.
Bryner, Fred, to Dow Chemical Company, The. Extended protein glues. 3,436,300, 4-1-69, Cl. 161-210.
Brynge, Per Gunnar; and Reenstierna, Erik Gustaf Bertil, to Husqvarna Vapenfabriks Aktiebolag. Electric driving means for sewing machines. 3,425,376, 2-4-69, Cl. 112-220.
Brynjelson, Reidar. Window and frame assembly. 3,461,940, 8-19-69, Cl. 160-371.
Brynko, Carl: *See*—
Amidon, Alan B.; and Brynko, Carl,3,441,411.
Amidon, Alan B.; and Brynko, Carl,3,442,646.
Amidon, Alan B.; and Brynko, Carl,3,450,530.
Amidon, Alan B.; and Brynko, Carl,3,450,531.
Amidon, Alan B.; and Brynko, Carl,3,450,533.
Amidon, Alan B.; and Brynko, Carl,3,471,290.
Amidon, Alan B.; and Brynko, Carl,3,482,973.
Brynko, Carl, to Xerox Corporation. Deformation imaging processes using electrically photosensitive photochromic materials. 3,441,410, 4-29-69, Cl. 96-1.1
Brynko, Carl, to Xerox Corporation. Electrophotographic imaging processes using electrically photosensitive photochromic materials. 3,451,811, 6-24-69, Cl. 96-1.
Brynko, Carl; and Martel, Robert W., to Xerox Corporation. Lithographic imaging system using photochromic and Thermochromic materials. 3,422,759, 1-21-69, Cl. 101-450.
Brynko, Carl; and Ossanna, Oliver A., to Xerox Corporation. Electrophotographic imaging process. 3,445,225, 5-20-69, Cl. 96-1.
Bryson, Charles J. Automatic conveyor system. 3,451,350, 6-24-69, Cl. 104-88.
Bryson, Henry Knox; and Juten, Milford A. Closure device. 3,458,227, 7-29-69, Cl. 292-341.14
Bryson, Neil Burton, to Aluminium Laboratories Limited. Casting of aluminum ingots. 3,441,079, 4-29-69, Cl. 164-89.
Bryzinski, Thaddeus F.: *See*—
Bartlett, William F.; and Bryzinski, Thaddeus F.,3,451,045.
Bryzinsky, Frank M.: *See*—
Gburek, John J.; Bryzinsky, Frank M.; and Grazen, Frank S.,3,474,065.
Grazen, Frank S.; Bryzinsky, Frank M.; and Kozma, Broni,3,438,917.
Brzozowski, Stephen, Jr.: *See*—
Winogrocki, Ray F.; Brzozowski, Stephen, Jr.; and McClure, Gerald L.,3,459,909.
Brzozowski, Wojciech; Mikos, Michal Mikos; and Niewiadomski, Janusz. Method of and means for heat-treating refractory materials at high temperatures. 3,449,505, 6-10-69, Cl. 13-1.
Bschorer, Konrad; Muller, Johann; and Ostler, Josef, to Deckel, Friedrich, Prazisions Mechanik und Maschinenbau. Copying milling machine. 3,465,642, 9-9-69, Cl. 90-13.1
Bschorr, Oskar. Vibration generator. 3,446,059, 5-27-69, Cl. 73-71.5
Bschorr, Oskar; and Kubanke, Detlev. Siren for the generation of sine wave sound and random noise. 3,446,182, 5-27-69, Cl. 116-147.
BSR Limited: *See*—
Evans, Philip H., 3,450,323.
Lane, Norman, 3,445,118.
Lane, Norman, 3,460,733.
Lane, Norman, 3,471,071.
BST Co.: *See*—
Berberian, John A., 3,435,730.
B.T.B. Benoit-Le Takis Brosse: *See*—
Partensky, Pierre Jean Marc, 3,479,241.
B. T. B. Benoit-Le Tapis Brosse, Societe Anonyme: *See*—
Partensky, Pierre Jean Marc, 3,477,889.
BTR Industries Limited: *See*—
Clark, Robert Edward, 3,465,121.
Grey, Peter John, 3,445,202.
Newberry, Samuel Alfred; and Brake, William Robert, 3,437,301.
Bua, William J., 25% to Lobato, Emmanuel J. Composite containers. 3,437,257, 4-8-69, Cl. 229-51.
Bub, Robert A.: *See*—
Andrews, Paul D.; and Bub, Robert A.,3,447,691.
Bube, Richard H.: *See*—
Loebner, Egon E.; Diesel, Thomas J.; and Bube, Richard H.,3,466,509.
Bubel, William L.: *See*—
Chelner, Herbert; and Bubel, William L.,3,424,000.

Bublitz, Donald E., to Dow Chemical Company, The. Method for preparing 3,4,6ltrichloropyridazine. 3,466,283, 9-9-69, Cl. 260-250.
Buc, George L.: *See—*
Hu, Yow-Jiun; and Buc, George L.,3,478,658.
Buc, Saul R., deceased (by Buc, Dolores M., administratrix); and Woodward, Fred E., to GAF Corporation. Method of controlling pests with mercury compounds. 3,443,013, 5-6-69, Cl. 424-245.
Bucalo, Louis, to Kinemotive Corporation. Temperature-compensated pressure transducer. 3,472,077, 10-14-69, Cl. 73-393.
Bucci, Giovanni; Simonazzi, Tonino; Ballini, Giuliano; and Portolani, Augusto, to Montecatini Edison S.p.A. Vulcanizable compositions. 3,477,985, 11-11-69, Cl. 260-41.
Buchanan, Alan David: *See—*
Culbertson, Harry M.; and Buchanan, Alan David,3,476,707.
Buchanan, Bobby L.: *See—*
Dolan, Russell P., Jr.; Buchanan, Bobby L.; and Roosild, Sven A.,3,431,150.
Roosild, Sven A.; Buchanan, Bobby L.; and Dolan, Russell P., Jr.,3,430,113.
Buchanan, Edward R.; and Clark, Jack W., to United States of America, Air Force. Ductile polycrystalline beryllium. 3,483,047, 12-9-69, Cl. 148-11.5
Buchanan Electric Products Corporation: *See—*
Rosenfeld, Seymour; Schwab, Ronald W.; and Haucke, Paul A., 3,459,029.
Buchanan, James B. Hydroxamate carbamates as nematocides. 3,459,866, 8-5-69, Cl. 424-327.
Buchanan, James Meek, to Advance Data Systems Corporation. Photosensitive circuit for controlling the intensity of a lamp. 3,456,155, 7-15-69, Cl. 315-151.
Buchanan, John G., to Johnson Wire Works Limited, The. Wear insert for paper machine drainage foil. 3,446,702, 5-27-69, Cl. 162-374.
Buchanan, John J.: *See—*
Kinnavy, James W.; and Buchanan, John J.,3,450,305.
Buchanan, Ronald L.; and Partyka, Richard A., to Bristol-Myers Company. Certain 5-tetrazolyl benzothiophene compounds. 3,452,039, 6-24-69, Cl. 260-308.
Buchanan, Russell A.; and Russell, Charles R., to United States of America, Agriculture. Starch resin reinforced rubbers. 3,480,572, 11-25-69, Cl. 260-17.2
Buchanan, Russell A.; Russell, Charles R.; and Weislogel, Orville E., to United States of America, Agriculture. Reinforced rubber by coprecipitation with starch xanthane or pregelatinized starch. 3,442,832, 5-6-69, Cl. 260-17.4
Buchanan, William L.; and Straight, Harry F., Jr., to Esso Research and Engineering Company. Vortex burner. 3,476,494, 11-4-69, Cl. 431-353.
Buchanan, William. Respiratory pad. 3,464,410, 9-2-69, Cl. 128-140.
Bucheimer-Clark Leather Goods Corp.: *See—*
Clark, Earl J., 3,420,420.
Buchel, Karl H.; Draber, Wilfried; and Korte, Friedrich W.A.G.K., to Shell Oil Company. Herbicidal 1-substituted 2,4,5-tribromoimidazoles. 3,423,420, 1-21-69, Cl. 260-309.
Buchel, Karl-Heinz: *See—*
Rochling, Hans F. W.; Buchel, Karl-Heinz; and Korte, Friedrich W.A.G.K.,3,459,759.
Buchele, Wesley F.; and Denisen, Ervin L., to Iowa State University Research Foundation, Inc. Strawberry picker. 3,460,332, 8-12-69, Cl. 56-330.
Bucher, David Hoffer: *See—*
Miller, Robert Deryl; Edman, John Harold; and Bucher, David Hoffer,3,443,833.
Bucher, Erich; Osterreicher, Wolfgang; and Mahlmann, Werner, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Spindle braking apparatus for textile machines. 3,426,520, 2-11-69, Cl. 57-88.
Bucher, Ernst: *See—*
Mueller, Jean; and Bucher, Ernst,3,459,543.
Bucher, Foster L., to Braco, Inc. Self leveling apparatus for potato harvester aprons. 3,455,447, 7-15-69, Cl. 209-114.
Bucher, Jeffery C. System for starting an engine from a remote location. 3,478,730, 11-18-69, Cl. 123-179.
Bucher, Paul. Safety steering wheel. 3,435,701, 4-1-69, Cl. 74-552.
Bucher, Paul. Adjustable nozzle for jet propulsion engine. 3,441,218, 4-29-69, Cl. 239-265.25
Buchheister, Gerhard; and Seibel, Markus, to Kalle Aktiengesellschaft. Manufacture of shaped structures made from thermoplastic synthetic materials. 3,424,735, 1-28-69, Cl. 260-93.7
Buchheit, Otto Karl, to Moeller & Neumann GmbH. Entry rollway for rake cooling beds. 3,456,778, 7-22-69, Cl. 198-219.
Buchheit, Paul: *See—*
Nitzsche, Siegfried; and Buchheit, Paul,3,453,307.
Buchhold, Theodor A., to General Electric Company. Cryogenic A.C. cable. 3,461,218, 8-12-69, Cl. 174-15.
Buchhold, Theodor A.; Nesbitt, Loyd B.; and Schoch, Karl F., to General Electric Company. Cryogenic heat transfer control system. 3,429,368, 2-25-69, Cl. 165-30.
Buchholz, Arnold R.; and Bergman, Charles T., to Brandt Automatic Cashier Co. Coin conveying apparatus. 3,442,272, 5-6-69, Cl. 133-1.
Buchholz, Bernard: *See—*
Popoff, Ivan C.; and Buchholz, Bernard,3,448,117.
Buchholz, Karl; Stahnecker, Erhard; Grohmann, Johannes; and Moeller, Rolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of particulate expandable styrene polymers. 3,468,820, 9-23-69, Cl. 260-2.5
Buchholz, Klaus; and Hoose, Werner, to Hamburger Flugzeugbau GmbH. Aircraft with storable lifting jets. 3,455,524, 7-15-69, Cl. 244-58.
Buchholz, Russell A., to Dresser Industries, Inc. Taphole construction for metallurgical vessels. 3,463,475, 8-26-69, Cl. 266-42.
Buching, Franz, to Daimler-Benz Aktiengesellschaft. Drum and disk brake and dust cover therefor. 3,476,224, 11-4-69, Cl. 188-218.
Buchkremer, Rudolf, to Reidhammer, Ludwig, G.m.b.H. Tunnel furnace. 3,476,369, 11-4-69, Cl. 263-36.
Buchla, Donald F.: *See—*
Gantz, William A.; Runkle, Raymond B.; and Buchla, Donald F.,3,453,441.
Buchler Instruments, Inc.: *See—*
Buchler, Joseph, 3,471,062.
Buchler, Joseph, to Buchler Instruments, Inc. Dispenser for liquids of varying density. 3,471,062, 10-7-69, Cl. 222-145.
Buchli, Arnold, to Buckli Equipment Enterprise, Inc. Scraper with pivoted closure means to admit earth from blade. 3,482,339, 12-9-69, Cl. 37-129.
Buchman, Gerald. Locking device for portable equipment. 3,434,312, 3-25-69, Cl. 70-58.
Buchman, Maurice J., to International Railroads' Weighing Corporation. Railroad track scale. 3,421,593, 1-14-69, Cl. 177-134.
Buchman, William W., to Korad Corporation. Gaint pulse laser control system. 3,437,953, 4-8-69, Cl. 331-94.5
Buchman, William W., to Union Carbide Corporation. Method and system for adjusting the phase relationships of radiation. 3,475,077, 10-28-69, Cl. 350-150.
Buchmann, Kenneth H.: *See—*
Foote, Timothy C.; and Buchmann, Kenneth H.,3,422,560.
Buchmann, Peter J., to Good Road Machinery Corporation, mesne. Spreader device. 3,438,585, 4-15-69, Cl. 239-665.
Buchmuller, Josef: *See—*
Muncke, Ludwig; Buchmuller, Josef; and Gross, Gerhard,3,486,769.
Buchner Industries, Inc.: *See—*
Royer, John A., 3,451,431.
Buchner, Norbert; and Kohnlein, Rolf, to Hesser, Fr., Maschinenfabrik, A.G. Container, particularly for liquids. 3,430,805, 3-4-69, Cl. 220-66.
Buchner, Robert Bertold, to U.S. Philips Corporation, mesne. Switching networks. 3,458,663, 7-29-69, Cl. 179-18.
Bucholz, Allan A., to Tacoma Millwork Supply Company. Semiconcealed cabinet door hinge. 3,439,377, 4-22-69, Cl. 16-135.
Buchovecky, Kalman E.; and Patton, Wilbur L., said Patton assor. to Du Pont de Nemours, E. I., and Company, and said Buchovecky assor. to Aluminum Company of America. Process for roll-compacting of metal powder with flange lubrication. 3,478,136, 11-11-69, Cl. 264-111.
Buchsbaum, Norbert N., to Lummus Company, The. Azeotropic distillation of aqueous toluene diamine. 3,421,983, 1-14-69, Cl. 203-14.
Buchsbaum, Solomon J.; Mc Fee, James H.; and Tien, Ping K., to Bell Telephone Laboratories, Incorporated. Second harmonic semiconductor modulators for coherent radiation. 3,457,417, 7-22-69, Cl. 250-199.
Buchsbaum, Walter H., to RCA Corporation. Protective system. 3,482,243, 12-2-69, Cl. 340-408.
Buchsenstein, Wilhelm: *See—*
Boe, Hans; Petersik, Peter; and Buchsenstein, Wilhelm,3,471,315.
Buchser, William J., to Whirlpool Corporation. Bin control for an ice maker. 3,474,637, 10-28-69, Cl. 62-137.
Buchstaller, Anton, to Dornier-Werke G.m.b.H. Apparatus for closing a lifting propulsion unit chamber. 3,451,647, 6-24-69, Cl. 244-53.
Buchwald, Joseph: *See—*
Bergmann, Oswald R.; Buchwald, Joseph; and Cowan, George R.,3,439,408.
Buchwald, Robert M., to General Motors Corporation. Belt drive and tensioning means. 3,473,399, 10-21-69, Cl. 74-226.
Buchwald, Robert M., to General Motors Corporation. Internal combustion engine overhead camshaft drive means. 3,482,553, 12-9-69, Cl. 123-55.
Buchy, Francois Ch.; and Bauduin, Philippe G., to Laboratoire Central des Industries Electriques. Device for the detection and measurement of very small displacements by converting the said displacements into variable frequency oscillations. 3,487,220, 12-30-69, Cl. 250-211.

Bucil, Frantisek: *See—*
Doudlebsky, Ctibor; Fajt, Ludvik; Bucil, Frantisek; and Kabele, Stanislav,3,434,184.
Bucil, Frantisek; Hybl, Josef; Kabele, Stanislav; and Vecera, Milos, to Bavlnarsky, Vyzkumny Ustav. Apparatus for supplying separated fibers to a spinning apparatus. 3,439,488, 4-22-69, Cl. 57-58.95
Buck, Arthur W., to Buck X-Ograph Company. X-ray film cassette. 3,482,097, 12-2-69, Cl. 250-68.
Buck, Charles D. Safety switch. 3,479,475, 11-18-69, Cl. 200-61.45
Buck, Daniel C., to Westinghouse Electric Corporation. Conductive elements interconnecting adjacent members of the delay structure in a traveling wave tube. 3,443,146, 5-6-69, Cl. 315-3.5
Buck, David T.; Berdan, David; and Poplar, Herbert, to Buck Engineering Co., Inc. Plural terminal and slip-on connectors. 3,487,356, 12-30-69, Cl. 339-242.
Buck Engineering Co., Inc.: *See—*
Buck, David T.; Berdan, David; and Poplar, Herbert, 3,487,356.
Buck, Ernest A. Display package. 3,461,583, 8-19-69, Cl. 40-125.
Buck, Francis E.; and Bellace, James R., to United States of America, Navy. Underwater sound reflector apparatus. 3,447,627, 6-3-69, Cl. 181-0.5
Buck, Francis Fremonte; and De Renzo, Edward Clarence, to American Cyanamid Company. Process for purifying plasmin. 3,434,929, 3-25-69, Cl. 195-66.
Buck, Fred H., Jr. Steel and scouring implement. 3,473,184, 10-21-69, Cl. 15-209.
Buck, Henry M.; Bruecher, Judith F.; Carlton, Louis A.; and Pierce, Aaron E., to Esso Production Research Company. Subsurface fluid flow diverter. 3,431,974, 3-11-69, Cl. 166-136.
Buck, James G.; Winkless, Robert A.; and Gerber, Howard L., to Continental Can Company, Inc. Electrical heat treating system for sealing cartons or the like. 3,450,856, 6-17-69, Cl. 219-10.53
Buck, Jon R. Fluidic control system. 3,453,979, 7-8-69, Cl. 114-52.
Buck, Leo V.: *See—*
Triplett, Robert D.; Buck, Leo V.; and Laue, Terry J.,3,447,248.
Buck Manufacturing Company: *See—*
Palm, Bernhard A., 3,439,304.
Palm, Bernhard A., 3,482,689.
Buck, N. R., Co., Inc.: *See—*
Buck, Norman R.; and Naseth, Dwight D., 3,453,169.
Buck, Norman R., to Schjeldahl, G. T., Company. Coverlay encapsulator for printed wiring. 3,441,463, 4-29-69, Cl. 156-549.
Buck, Norman R. Method of preparing printed wiring. 3,448,516, 6-10-69, Cl. 29-625.
Buck, Norman R., to Westinghouse Air Brake Company. Check digit calculator. 3,451,619, 6-24-69, Cl. 235-61.
Buck, Norman R., to Schjeldahl, G. T., Company. Laminator assembly. 3,458,382, 7-29-69, Cl. 156-543.
Buck, Norman R.; and Naseth, Dwight D., to Buck, N. R., Co., Inc. Encapsulator. 3,453,169, 7-1-69, Cl. 156-552.
Buck, Ollie G.: *See—*
Kahle, Gerald R.; and Buck, Ollie G.,3,481,911.
Buck, Robert C. Bowling ball return device. 3,456,946, 7-22-69, Cl. 273-49.
Buck, Robert. Knitting machine needle. 3,426,551, 2-11-69, Cl. 66-119.
Buck, Ronald F.: *See—*
Phelps, Charles W.; Morgan, Bert M.; and Buck, Ronald F.,3,436,626.
Buck, Ronald H., Jr., to Eaton Yale & Towne Inc. Process for making permanently baked shell molds. 3,446,265, 5-27-69, Cl. 164-21.
Buck, Russell E., to Buck Tool Company. Chuck construction. 3,424,467, 1-28-69, Cl. 279-2.
Buck, Thomas F.: *See—*
Cox, John E.; Hasser, George L.; Bochm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F.,3,467,780.
Buck, Thomas M.; and Dalton, John V., to Bell Telephone Laboratories, Incorporated. Electron beam charge storage device employing diode array and establishing an impurity gradient in order to reduce the surface recombination velocity. 3,458,782, 7-29-69, Cl. 317-235.
Buck, Thomas M.; and Satterwhite, Fred B., to Klinger Manufacturing Company, Limited, The. Method of continuously dyeing and stretching undrawn yarn. 3,434,189, 3-25-69, Cl. 28-75.
Buck, Thomas Olaf, to Meade Electric Company of Indiana, Inc. Heat exchange housing for television camera and the like. 3,464,218, 9-2-69, Cl. 62-3.
Buck Tool Company: *See—*
Buck, Russell E., 3,424,467.
Buck, Willard E., to Technical Operations, Incorporated. Shutter mechanism for high speed cinecamera. 3,463,582, 8-26-69, Cl. 352-205.
Buck, Willard E., to Technical Operations, Incorporated, mesne. Reflecting prism camera. 3,480,353, 11-25-69, Cl. 352-108.
Buck X-Ograph Company: *See—*
Buck, Arthur W., 3,482,097.
Buckbee-Mears Company: *See—*
Brown, Silas A., 3,467,560.
Frantzen, John J., 3,423,261.
Frantzen, John J., 3,455,751.
Gibbs, Norman R.; and Herriges, Joseph R., 3,437,578.
Hartz, Stanley G., 3,456,118.
Mears, Norman B., 3,479,546.
Mears, Norman B., 3,484,638.
Toensing, James W., 3,436,996.
Buckerridge, Edward Thomas; Jones, Alan Victor; and Rayward, William Clifford. Electric circuit controllers incorporation time-switches. 3,478,181, 11-11-69, Cl. 200-38.
Buckeye Stamping Company, The: *See—*
Bell, David M.; and Bell, Floyd W., 3,476,982.
Buckholz, Ronald J., to Designed Mailing Accessories, Inc., mesne. Perforator attachment for printed tape of labels. 3,454,451, 7-8-69, Cl. 156-513.
Bucki, Joseph: *See—*
Muenchow, Herbert O.; Chamberlain, Harry V.; Chase, Wayne L.; and Bucki, Joseph,3,442,118.
Buckingham, Arthur G.; and Haney, Thomas P., to Westinghouse Electric Corporation. Attitude control system. 3,429,524, 2-25-69, Cl. 244-1.
Buckingham, Herbert Charles; and Penson, Michael, to British Oxygen Company, The. Submerged arc welding of nickel steels. 3,448,241, 6-3-69, Cl. 219-146.
Buckinham, Donald F. Phototypecomposer. 3,455,216, 7-15-69, Cl. 95-4.5
Buckland, Bruce O., to General Electric Company. Steam cooled gas turbine. 3,443,790, 5-13-69, Cl. 253-39.1
Buckland, Ivor John, to International Nickel Company, Inc., The. Apparatus for the extraction of hydrogen from gas mixtures. 3,452,517, 7-1-69, Cl. 55-158.
Buckland, Paul S., to Goodyear Tire & Rubber Company, The. Method of making vehicle tire tread. 3,462,328, 8-19-69, Cl. 156-114.
Buckle, Richard Percy Stanley, to Sovex Limited. Selective delivery conveyors. 3,444,985, 5-20-69, Cl. 198-38.
Buckler, Ernest J.: *See—*
Orr, Robert J.; Breitman, Leo; and Buckler, Ernest J.,3,467,620.
Buckler, Robert Thomas: *See—*
Jarboe, Charles H.; and Buckler, Robert Thomas,3,429,912.
Buckler, Sheldon A.; Martel, Rock F; and Moshy, Raymond J., to American Machine & Foundry Company. Schardinger dextrins. 3,472,835, 10-14-69, Cl. 260-209.
Buckler, Sheldon A.: *See—*
Epstein, Martin; Buckler, Sheldon A.; Sherr, Allan Ellis; and Gillham, Helen Currier,3,459,833.
Bader, Henry; and Buckler, Sheldon,3,467,711.
Buckler, Sheldon; and Epstein, Martin, to American Cyanamid Company. Tertiary phosphine oxides. 3,454,650, 7-8-69, Cl. 260-606.5
Buckley, Donald H.; and Johnson, Robert L., to United States of America, National Aeronautics and Space Administration. Alloys for bearings. 3,466,243, 9-9-69, Cl. 252-12.
Buckley, Douglas; Roebuck, Alec; and Firth, Donald, to Datacopy Limited. Transfer compositions. 3,471,311, 10-7-69, Cl. 117-36.1
Buckley, Edward Albert: *See—*
Loukes, David Gordon; and Buckley, Edward Albert,3,438,760.
Buckley, Herman T.: *See—*
Dumont, Thomas P.; and Buckley, Herman T.,3,441,953.
Buckley, Jay S., Jr.: *See—*
Beereboom, John J., Jr.; and Buckley, Jay S., Jr.,3,438,882.
Buckley, John J.; and Shearer, Joseph W., Jr., to Westinghouse Electric Corporation. Angular velocity measuring device. 3,429,188, 2-25-69, Cl. 73-505.
Buckley, Lawrence G., to Welsh Panel Company. Method and apparatus of producing relief pattern. 3,425,303, 2-4-69, Cl. 82-14.
Buckley, Robert E.: *See—*
Astheimer, Robert W.; and Buckley, Robert E.,3,459,945.
Wheelock, David Bent; and Buckley, Robert,3,428,249.
Buckley, Thaddeus M., to Varian Associates. Microwave window employing a half-wave window structure with internal inductive matching structure. 3,439,296, 4-15-69, Cl. 333-98.
Buckley, William J., Jr.: *See—*
Canavan, John J.; Gawrylowicz, Henry; Buckley, William J., Jr.; and Johns, William,3,430,863.
Buckli Equipment Enterprise, Inc.: *See—*
Buchli, Arnold, 3,482,339.
Bucklin, Charles A.: *See—*
Glasgow, Clarence O.; and Bucklin, Charles A.,3,443,789.
Bucklin, Edward P., Jr.; Pollack, Werner; and Carlson, Carl O., to National Cash Register Company, The. Optical character reading system. 3,434,110, 3-18-69, Cl. 340-146.3
Buckman, John D.; Pera, John D.; and Raths, Fred W., to Buckman Laboratories, Inc. Methylene bisesters of thiolsulfonic acids. 3,484,473, 12-16-69, Cl. 260-453.
Buckman, Kenneth Ernest, to General Motors Corporation. Air filter assemblies for internal combustion engines. 3,473,301, 10-21-69, Cl. 55-510.

Buckman Laboratories, Inc.: *See*—
Buckman, John D.; Pera, John D.; and Raths, Fred W., 3,484,473.
Buckman, Stanley J.; Kirchen, Charles P.; and Gendron, Claude G., 3,448,004.
Buckman, Stanley J.; Pera, John D.; and Raths, Fred W., 3,463,785.
Buckman, Stanley J.; Kirchen, Charles P.; and Gendron, Claude G., to Buckman Laboratories, Inc. Preparation of chemical pulp from wood chips. 3,448,004, 6-3-69, Cl. 162-75.
Buckman, Stanley J.; Pera, John D.; and Raths, Fred W., to Buckman Laboratories, Inc. S-Thiocyanomethyl compounds of 2-mercaptobenzo- thiazoles, 2-mercaptobenzoxazoles, and 2-mercapt- benzimidazoles. 3,463,785, 8-26-69, Cl. 260-306.6
Buckmiller, Harald: *See*—
Kolb, Hans; Hartmann, Rudolf; and Buckmiller, Harald,3,444,287.
Buckminster, Lloyd A.; and Washburn, William A., to Textron Inc. Lens blocker. 3,451,177, 6-24-69, Cl. 51-277.
Bucknell, E. H.,: *See*—
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Bucknell, Ernest H.: *See*—
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Bucknell, Ernest H.; and Ward, Irving A., 10% to Bletcher, Ralph E., deceased, trust of, 5% each to Robertson, Frederick, and Robertson, Gary, 10% each to Bucknell, Lenora, and Bletcher, Richard J., 5% to Liston, Marcia, as trustee for Liston, Daniel E., 5% each to Liston, Carol Ann, and Liston, James H., 10% each to Brondum, Hazel, and Bletcher, Pearl, 15% to Liston, Marcia, and 10% to Bucknell, Ernest H. Balanced control mixing valve. 3,460,570, 8-12-69, Cl. 137-607.
Bucknell, Ernest H.; and Ward, Irving A., 10% to Bletcher Pearl W., 5% to the estate of Bletcher, Ralph E., deceased 3 1/3% to Bletcher, James H., trustee 10% to Brondum, Hazel S., 8% to Robertson, Charlotte, 1% to Robertson, Kenneth, trustee 2 2/3% to Robertson, Gary B., 8% to Bletcher, James H., 2% to Bletcher, Richard J., 8% to Bucknell, E. H., 4 1/2% to Glauber, Myron, trustee, 12 1/2% to the estate of Bucknell, Mabel, deceased, 20 1/2% to Liston, Marcia B., and, 4 1/2% to Liston, Daniel B., trustee. Diverting spout. 3,461,901, 8-19-69, Cl. 137-119.
Bucknell, Lenora: *See*—
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Bucknell, Mabel: *See*—
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Buckner, Guy O., to Dresser Industries, Inc. Depth encoder using magnetic rotational conversion. 3,426,303, 2-4-69, Cl. 335-206.
Buckner Industries, Inc.: *See*—
Malcolm, William R., 3,448,660.
Royer, John A., 3,434,665.
Royer, John A., 3,478,776.
Buckner, Thomas E.: *See*—
Thompson, Benjamin; and Buckner, Thomas E.,3,431,305.
Bucks County Enterprises, Inc.: *See*—
Edwards, Jacque R., 3,476,262.
Bucksteeg, Wilhelm; and Thiele, Hans, to Passavant-Werke. Method and apparatus for the purification of waste water. 3,480,542, 11-25-69, Cl. 210-20.
Buckthorpe, Tom C.: *See*—
O'Leary, Walter E.; Thornton, Duane V.; and Buckthorpe, Tom C.,3,440,971.
Bucky, Peter A.; and Gleason, Albert W., to Bucky X-Ray International, Inc. Portable X-ray adjustably mounted in a carrying case lined with lead. 3,448,266, 6-3-69, Cl. 250-71.
Bucky X-Ray International, Inc.: *See*—
Bucky, Peter A.; and Gleason, Albert W., 3,448,266.
Bucourt, Robert: *See*—
Joly, Robert; Warnant, Julien; Jolly, Jean; Prost-Marechal, Jacques; Bucourt, Robert; and Tessier, Jean,3,424,745.
Nomine, Gerard; and Bucourt, Robert,3,458,632.
Nomine, Gerard; Bucourt, Robert; Pierdet, Andre; and Snozzi, Candido,3,444,297.
Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, to Rousel-Uclaf. Novel process for preparation of optically active keto steroids. 3,472,885, 10-14-69, Cl. 260-397.45
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.
Bucyrus-Erie Company: *See*—
Grider, Lyle D.; Reuter, Gottfried; and Mork, George W., 3,445,004.
Kordik, Kenneth S.; Spannhake, Ernst W.; and Zaumseil, Dean R., 3,435,315.
Learmont, Tom, 3,452,890.
Mork, George W., 3,462,029.
Mork, George W., 3,463,336.
Mork, George W.; Waldron, Vernon F.; and Walker, Robert C., 3,464,528.
Mork, George W., 3,464,570.
Novotny, Carl F., 3,426,916.
Novotny, Carl F.; and Mork, George W., 3,433,367.
Reischl, Karl E., 3,445,133.
Reischl, Karl E., 3,477,588.
Reuter, Gottfried, 3,458,053.
Reuter, Gottfried; and Plymale, Julian K., 3,465,899.
Willgrubs, Theodore M.; Smith, William H.; and Learmont, Tom, 3,425,574.
Wilson, Ellis C., 3,465,903.
Bud, Hans, to English Numbering Machines Limited. Mold for tube used in a loom for weaving carpets, especially axminster carpets. 3,429,008, 2-25-69, Cl. 18-42.
Budahn, Burnell E., to Industrial Plant Service & Mfg., Co. Apparatus and methods for continuously manufacturing cheese. 3,449,127, 6-10-69, Cl. 99-115.
Budd Company, The: *See*—
Bauer, Horace P., 3,486,277.
Baum, Bernard O., 3,440,227.
Bende, Albert; Hiemenz, George G.; and Moore, Charles Dana, 3,465,117.
Buyze, Edwin K., 3,486,218.
Corrigan, James D.; Bowers, Lester T.; Gilmour, Richard C.; and Wolff, Robert A., 3,436,521.
Cottingham, Robert A., 3,461,490.
Dean, Albert G., 3,456,389.
Dean, Albert G., 3,472,345.
Dean, Albert G.; and Freholm, Omar E., 3,486,464.
Dean, Walter B., 3,464,726.
Eggert, Walter S., Jr., 3,434,256.
Eggert, Walter S., Jr., 3,443,346.
Eggert, Walter S., Jr., 3,461,819.
Einhorn, Stanley C., 3,452,556.
Freholm, Omar E., 3,434,570.
Haroldson, Arthur H.; and Cox, Hubert L., 3,434,889.
Herkness, Frank G.; and Simmons, Charles W., Jr., 3,434,215.
Keahn, Albert G.; and Koltvedt, Robert, 3,427,068.
Mattia, Michael, 3,457,157.
Naul, George M., 3,425,463.
Plefka, Henry J.; and Metzgar, Harrison B., III, 3,486,642.
Rueth, Joseph F.; and Urian, Charles A., 3,434,300.
Skypala, Louis M., 3,426,177.
Spry, James F., 3,434,216.
Tabor, Paul C., 3,481,646.
Van Sciver, Herbert D., 3,434,938.
Van Sciver, Herbert D., 3,443,661.
Walton, Leonard; and Hogan, Patrick J., 3,442,110.
Weglarz, Walter P., 3,478,553.
Wessells, Henry W., III, 3,423,122.
Wessells, Henry W., III, 3,423,123.
Wessells, Henry W., III; and Eggert, Walter S., Jr., 3,455,595.
Whitman, Robert M., 3,434,919.
Wonus, Dale Wilson, 3,429,364.
Budd, Frances M. Knockdown furniture. 3,425,764, 2-4-69, Cl. 312-259.
Budd, Sidney Maurice, to United Glass Limited. Process for strengtening glass containers. 3,451,795, 6-24-69, Cl. 65-30.
Budd, Sidney Maurice, to United Glass Limited. Process for producing a glass with a diffused layer and a coating. 3,463,658, 8-26-69, Cl. 117-69.
Budd, William E.; and Okey, Robert W., to Dorr-Oliver Incorporated. Membrane separation in biological-reactor systems. 3,472,765, 10-14-69, Cl. 210-7.
Budd, William E.; and Powers, Thomas J., to Dorr-Oliver Incorporated, and Dow Chemical Company, The. Treatment of polluted streams in place. 3,470,091, 9-30-69, Cl. 210-10.
Budde, Paul B.; and Tolkmith, Henry, to Dow Chemical Company, The. Phosphinothioic amides. 3,433,798, 3-18-69, Cl. 260-309.
Budde, Paul B.; and Tolkmith, Henry, to Dow Chemical Company, The. Saturated hydrocarbon imidazolyl phosphorus compounds as fungicides. 3,466,369, 9-9-69, Cl. 424-200.
Budde, Walter M., Jr., to Ashland Oil & Refining Company. Acetoxy-tertiary alkyl-amine oxides. 3,442,936, 5-6-69, Cl. 260-490.
Budds, Lee F.; and Perry, Michael, to North American Rockwell Corporation. Opposed arc welding. 3,475,587, 10-28-69, Cl. 219-137.
Buddy L Corporation: *See*—
Appel, Mel, 3,478,464.
Budecker, Ludwig, to Teves, Alfred, GmbH. Radial-piston pump with improved cooling and lubrication. 3,461,809, 8-19-69, Cl. 103-174.
Budenkov, Valentin Nikolaevich: *See*—
Rebenok, Anatoly Georgievich; Budenkov, Valentin Nikolaevich; Mezentsev, Jury Grigorievich; Vainshtein, Lazar Pinkhusovich; Durachenko, Mikhail Ivanovich; and Kovdrya, Ivan Timofeevich,3,457,879.
Budlong, Albert H.; Calhoun, Edward T. D.; and Goeller, Leopold F., Jr., to Bell Telephone Laboratories, Incorporated. Conference circuit with selective call splitting. 3,441,678, 4-29-69, Cl. 179-18.
Budnick, Dietrich: *See*—
Janner, Karl; and Budnick, Dietrich,3,444,400.
Budnick, Edward George, to Plains Chemical Development Co. Method of preparing malononitrile. 3,459,783, 8-5-69, Cl. 260-465.2

Budnick, Edward G., to Plains Chemical Development Co. Aromatic polyphosphonic acids, salts and esters. 3,463,835, 8-26-69, Cl. 260-932.
Budnick, Edward G., to Plains Chemical Development Co. Detergent compositions containing methane tri and tetra phosphonic acid compounds. 3,471,406, 10-7-69, Cl. 252-137.
Budnick, Edward G., to Plains Chemical Development Co. Aliphatic polyphosphonic acids and derivatives thereof. 3,471,552, 10-7-69, Cl. 260-502.4
Budnowski, Manfred, to Henkel & Cie GmbH. Process for the preparation of substituted oxazolidones. 3,446,814, 5-27-69, Cl. 260-307.
Budnowski, Manfred: *See*—
Kleinschmidt, Peter; and Budnowski, Manfred,3,424,721.
Saran, Herbert; and Budnowski, Manfred,3,459,713.
Budreck, Frances, to Monarch Tool & Machinery Co. Twin rear vision mirror assembly. 3,424,517, 1-28-69, Cl. 350-293.
Budz, Edward R., to Continental Can Company, Inc. Device for monitoring the operation of a jar capping machine. 3,477,197, 11-11-69, Cl. 53-53.
Budzich, Tadeusz, to Weatherhead Company, The. Hydraulic control system for tractor drawn implement. 3,423,935, 1-28-69, Cl. 60-52.
Budzich, Tadeusz. Material pulverization. 3,429,511, 2-25-69, Cl. 241-5.
Budzich, Tadeusz. Apparatus to synchronize fluid drives with mechanical drives. 3,430,722, 3-4-69, Cl. 180-44.
Budzich, Tadeusz, to Weatherhead Company, The. Differential pressure compensator control. 3,444,689, 5-20-69, Cl. 60-52.
Budzich, Tadeusz, to Weatherhead Company, The. Flow control valve. 3,464,439, 9-2-69, Cl. 137-504.
Budzich, Tadeusz, to Weatherhead Company, The. Flow proportional valve for load responsive system. 3,470,694, 10-7-69, Cl. 60-52.
Budzinski, Sylvester M. Golf practice device. 3,430,964, 3-4-69, Cl. 273-195.
Budzyna, Joseph M.; and Mucciarone, Rocco H., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Loom stop motion. 3,444,904, 5-20-69, Cl. 139-376.
Budzyna, Walter James: *See*—
Papelian, Roger G.; and Budzyna, Walter James,3,444,903.
Budzynski, Kazimierz: *See*—
Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw,3,459,417.
Budzynski, Kazimierz; Juszczyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; and Zakrawacz, Stanislaw. Open-hearth furnace. 3,479,019, 11-18-69, Cl. 263-46.
Bue, Richard C., to Sico Incorporated. Folding room service table. 3,437,058, 4-8-69, Cl. 108-112.
Bue, Richard C.; and Gutierrez, Julian, to Sico Incorporated. Multipurpose teaching unit. 3,477,760, 11-11-69, Cl. 297-157.
Buechel, Mel E., to Motorola, Inc. Horizontal sweep system with automatic raster size regulation. 3,444,426, 5-13-69, Cl. 315-27.
Buecheler, Paul, to Sandoz Ltd., a/k/a Sandoz A.G. 1-Amino-4-anilino-2-nitro-anthraquinones and derivatives. 3,444,214, 5-13-69, Cl. 260-378.
Buechler, Peter R.: *See*—
Lowell, John A.; and Buechler, Peter R.,3,441,365.
Buechner, Werner W. Water jacket and photographic processing apparatus. 3,470,810, 10-7-69, Cl. 95-96.
Buegler, Robert J.: *See*—
Greenblum, Carl; Buegler, Robert J.; McCarroll, Joseph F.; Avakian, Emik A.; and Granbery, John,3,484,748.
Buehl, Karl-Heinz, to Krantz, H. Closed dyeing apparatus and method of preventing condensate therein. 3,478,375, 11-18-69, Cl. 8-158.
Buehler, Alois A.; and Peterson, Carl R., to Ingersoll-Rand Company. Check valve vent and blow air metering plug for rock drills. 3,431,984, 3-11-69, Cl. 173-78.
Buehler, Arthur: *See*—
Montmollin, Ren'e De; Loeffel, Hansrolf; Oetiker, Alfred; and Buehler, Arthur,3,444,156.
Buehler, Arthur; Sulzer, Georg; and Fasciati, Alfred, to Ciba Limited. Process for dyeing and printing fibrous materials. 3,468,618, 9-23-69, Cl. 8-17.
Zickendraht, Christian; and Buehler, Arthur,3,483,190.
Buehler Corporation, The: *See*—
Glover, Wayne H.; Southworth, Robert K.; Rasmussen, David E.; Unterberg, William J.; and Louden, Max, 3,439,188.
Buehler, Gebruder: *See*—
Stillhard, Bruno; and Tobler, Walter, 3,433,256.
Buehler, Oscar R.; Keister, George P.; and Long, Joseph F., to Du Pont de Nemours, E. I., and Company. Process for making hexamethylenediamine from adiponitrile. 3,461,167, 8-12-69, Cl. 260-583.
Buehler, Willy, A.G.: *See*—
Spieldiener, Robert; and Saiko, Alphons, 3,473,279.
Buehner, Otto & Company: *See*—
Merrill, Taylor S.; and Johnson, Donald D., 3,435,580.
Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,429,621, 2-25-69, Cl. 303-71.
Bueler, Richard C., to Wagner Electric Corporation. Adjusting mechanism. 3,431,730, 3-11-69, Cl. 60-54.6
Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,441,318, 4-29-69, Cl. 303-6.
Bueler, Richard C., to Wagner Electric Corporation, mesne. Control valve and system. 3,448,230, 6-3-69, Cl. 200-82.
Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,450,154, 6-17-69, Cl. 137-492.5
Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,450,443, 6-17-69, Cl. 303-6.
Bueler, Richard C., to Wagner Electric Corporation. Warning device. 3,463,554, 8-26-69, Cl. 303-6.
Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,469,889, 9-30-69, Cl. 303-6.
Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,472,559, 10-14-69, Cl. 303-6.
Buell, Bernard J.; and Moore, Robert L., to United States of America, Army, mesne. Lanyard retract apparatus for an umbilical cable assembly. 3,444,779, 5-20-69, Cl. 89-1.811
Buell Engineering Company, Inc.: *See*—
Gelfand, Peter C., 3,469,371.
Buell, Heinz; Fiore, John M.; Marino, Louis S.; and Rubin, Jack, to General Precision Systems, Inc. Doppler inertial system with accurate vertical reference. 3,430,239, 2-25-69, Cl. 343-9.
Buell, Heinz; Gannon, Joseph A.; and Rubin, Jack, to Singer-General Precision, Inc. Doppler inertial navigation system. 3,432,856, 3-11-69, Cl. 343-9.
Buell, Heinz; and Rubin, Jack, to General Precision Systems, Inc. Apparatus for providing an accurate vertical reference in a doppler-inertial navigation system. 3,430,238, 2-25-69, Cl. 343-9.
Buell, Louis K.: *See*—
Gerek, Gene; and Buell, Louis K.,3,449,466.
Buell, Robert O., to Dresser Industries, Inc. Non-lubricated injection valve assembly. 3,479,007, 11-18-69, Cl. 251-214.
Buenger, George L.; and Erickson, Robert J., to Magnavox Company, The. Radiation sensitive transducing system. 3,471,701, 10-7-69, Cl. 250-219.
Buenger, George L.: *See*—
Ricketts, Luther W., Jr.; Buenger, George L.; and Erickson, Robert J.,3,471,838.
Buensod-Stacey Corporation: *See*—
Smith, William E., 3,425,443.
Warren, Robert M., Jr., 3,433,410.
Warren, Robert M., Jr., 3,477,497.
Buergel, George K.: *See*—
Buergel, Wolfgang George, 3,443,446.
Buergel, Wolfgang George, to Buergel, George K. Reciprocating motion creating double thrust ball bearing. 3,443,446, 5-13-69, Cl. 74-56.
Buerkel, David H., to Neoweld Electric Inc. Polarity reversible current regulator apparatus. 3,452,211, 6-24-69, Cl. 307-24.
Buesch, Siegfried; and Germann, Reimar, to List, Hans. Switching arrangement for the integration of individual high-speed operations. 3,479,496, 11-18-69, Cl. 235-183.
Buescher, Eugene J. Continuous methods for producing mailable materials. 3,442,185, 5-6-69, Cl. 93-61.
Buescher, James E.: *See*—
Stapleton, Fred E.; and Buescher, James E.,3,434,104.
Buetow, Ralph W.: *See*—
Cox, Robert P.; and Buetow, Ralph W.,3,445,311.
Buff, Fred; French, Marcus; and Pollock, Warren. Manufacture of expanded cellular products. 3,476,845, 11-4-69, Cl. 264-54.
Buff, Fred; Gross, Joseph Idadore; and Healy, Lawrence William, to Genset Corporation. Leather substitute composition. 3,477,898, 11-11-69, Cl. 161-160.
Buff, George J., Jr. Container-edge construction. 3,438,543, 4-15-69, Cl. 220-74.
Buffalo Brake Beam Company: *See*—
Goods, Edward G., 3,422,931.
Buffalo Forge Company: *See*—
Neal, Maynard J., 3,433,164.
Schroeter, Joachim W., 3,459,366.
Buffalo Turbine Agricultural Equipment Co., Inc.: *See*—
Knowles, Coyle E., 3,448,926.
Knowles, Coyle E., 3,449,016.
Knowles, Coyle E., 3,452,931.
Buffy, Rene; and Tartar, Adolphe, to S.A.B.E. Specialities Alimentaires pour le Betail, Societe Anonyme. Apparatus for dispensing artificial food to young animals. 3,425,398, 2-4-69, Cl. 119-51.11
Bufkin, Dale E.; Murphy, Willard G.; and Yount, Ronald E., to McGraw-Edison Company. Coffee maker. 3,425,336, 2-4-69, Cl. 99-281.
Buford, Charles G.: *See*—
Buford, Wesley E.; and Buford, Charles G.,3,451,414.
Buford, Wesley E.; and Buford, Charles G.,3,451,415.
Buford, Charles G.; and Buford, Wesley E., to General Electric Company. Apparatus for filling containers. 3,447,281, 6-3-69, Cl. 53-59.

Buford, Wesley E.: *See—*
Buford, Charles G.; and Buford, Wesley E.,3,447,281.
Buford, Wesley E.; and Buford, Charles G. Fluid actuated timer. 3,451,414, 6-24-69, Cl. 137-102.
Buford, Wesley E.; and Buford, Charles G. Fluid pressure impulse valve. 3,451,415, 6-24-69, Cl. 137-102.
Bufton, Richard G., to Diamond Shamrock Corporation. Ion exchange resins from dioxaspiroheptane cross-linked oxetane polymers. 3,459,687, 8-5-69, Cl. 260-2.1
Bufton, Richard G.; Abrams, Irving M.; and Burnett, Fredrick L., III, to Diamond Shamrock Corporation. Weak base anion exchange resin and process of preparing same. 3,423,336, 1-21-69, Cl. 260-2.1
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques, to Societe Anonyme dite: L'Oreal. 2-Tertiaryamino alkyl-amino anthraquinones, their acid addition and quaternary ammonium salts thereof. 3,442,895, 5-6-69, Cl. 260-247.1
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques, to Societe anonyme dite: L'Oreal. Dye stuffs comprising derivatives of anthra- quinone for dyeing live human hair and use thereof. 3,467,483, 9-16-69, Cl. 8-10.1
Bugaut, Andree: *See—*
Kalopissis, Gregoire; Bertrand, Jack; and Bugaut, Andree,3,442,599.
Bugg, Alfred Edward, to White, Bruce G. Beckett, Allan Harry Gelson, William E., and Tapp, John W. T. Wave amplitude measuring apparatus. 3,463,002, 8-26-69, Cl. 73-170.
Bugg, Alfred Edward, to White, Gordon Bruce, Sir Gelson, Edward William Beckett, Allan Harry, and Tapp, John William Theodore. Hydraulic models. 3,475,834, 11-4-69, Cl. 35-19.
Buggie, Horace H.; and Randolph, Gerald L. Heating-curing of rubber printing plates. 3,472,989, 10-14-69, Cl. 219-10.67
Bugianesi, Robert L.; and Linn, Bruce O., to Merck & Co., Inc. Preparation of 2-bornane alkyl ketones. 3,481,985, 12-2-69, Cl. 260-587.
Bugla, Gottfried, to Bantox Safety Closures Limited. Tamper-proof fluid-tight containers. 3,432,065, 3-11-69, Cl. 220-40.
Bugni, Donald S.; and Paape, Kenneth L., to Square D Company. Driving connection for independently mounted circuit breaker and operating handle. 3,475,576, 10-28-69, Cl. 200-172.
Bugni, Donald S.: *See—*
Stark, Edward J.; Bugni, Donald S.; and Paape, Kenneth C.,3,482,143.
Bugnon, Maurice; and Melin, Ginette nee Poncet. Foundation garment. 3,431,913, 3-11-69, Cl. 128-546.
Bugosh, John; and Hoffman, Lewis C., to Du Pont de Nemours, E. I., and Company. Composite vitreous enamels and their preparation. 3,443,973, 5-13-69, Cl. 106-49.
Buhl, Frank C.; Lees, Ronald D.; and Monagle, Daniel J., to Hercules Incorporated. Sugar purification. 3,479,221, 11-18-69, Cl. 127-46.
Buhl, Wilhelm, to Daimler-Benz Aktiengesellschaft. Shaft seal with return rifling. 3,476,396, 11-4-69, Cl. 277-59.
Buhler, Eugene H.: *See—*
Remington, Richard C.; and Buhler, Eugene H.,3,442,023.
Buhler, Gebruder: *See—*
Drugowitsch, Hellmut, 3,430,685.
Eppenberger, Paul, 3,457,880.
Karrer, Karl; and Linzberger, Robert, 3,468,488.
Schonholzer, Peter Hans, 3,481,633.
Buhner, Willy. Apparatus for continuous dispersion of predominantly viscous substances. 3,430,925, 3-4-69, Cl. 259-8.
Buhr, Jacob, to Electrohome Limited. Automatic muting networks for signal seeling receivers. 3,448,386, 6-3-69, Cl. 325-456.
Buhr, Jacob, to Electrohome Limited. Automatic muting networks for signal seeking receivers. 3,467,868, 9-16-69, Cl. 325-456.
Buhr, Jacob, to Electrohome Limited. A.F.C. defeat networks for signal seeking receivers. 3,467,873, 9-16-69, Cl. 325-471.
Buhr Machine Tool Corporation: *See—*
Gerchow, Wilbur R., 3,486,779.
Buhrer, Carl F., to General Telephone & Electronics Laboratories, Incorporated. Signal transmission systems. 3,435,229, 3-25-69, Cl. 250-199.
Buhrer, Carl F., to General Telephone & Electronics Laboratories, Incorporated. Optical system for transmitting and receiving two independent signals over a single electromagnetic carrier wherein the rotational orientation of the receiver is independent of the angular position of the transmitter. 3,440,424, 4-22-69, Cl. 250-199.
Buhrer, Carl F.; and Fowler, Vernon J., to General Telephone & Electronics Laboratories, Incorporated. Electro-optic prism beam deflection apparatus. 3,458,247, 7-29-69, Cl. 350-150.
Buice, Joel B.; and Cannon, Henry T., Jr., to General Electric Company. Self-healing capacitor assembly. 3,475,659, 10-28-69, Cl. 317-230.
Buick, Kurt; Klein, Heinrich; and Weber, Eduard, to Siemens Aktiengesellschaft. Air cleaner for internal combustion engines. 3,466,853, 9-16-69, Cl. 55-1.
Buie, James L.: *See—*
McIver, George W.; and Buie, James L.,3,475,665.
Builder, Carl H., to Marquardt Corporation, The. Liquid air jet propulsion engine and method of operating same. 3,452,541, 7-1-69, Cl. 60-39.46
Builders Equipment Company: *See—*
Thomas, Paul M.; Wright, Lawrence W.; Crile, Eugene E.; Tolleson, Leon H.; and Parmer, Jesse N., 3,471,036.
Building Research, Inc.: *See—*
Wah, Joe M.; and Johnson, Theodore A., 3,474,582.
Buisman, William J., to Standard Screw Company. Method of surface finishing a metallic part. 3,474,008, 10-21-69, Cl. 204-33.
Buisson, Andre; Trambouze, Pierre; Van Landeghem, Hugo; and Rebeller, Michel, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for the culture of algae and apparatus therefor. 3,468,057, 9-23-69, Cl. 47-1.4
Buist, Daniel T., to Purex Corporation, Ltd. Radioactive decontamination. 3,437,521, 4-8-69, Cl. 134-26.
Buist, Robert L.; and Bos, Ronald D. Machine for sorting articles. 3,455,442, 7-15-69, Cl. 209-74.
Buitelaar, Arnold A.: *See—*
Van der Meij, Pieter H.; and Buitelaar, Arnold A.,3,483,170.
Buiting, Francis P. Electro-Thermal timing apparatus. 3,457,429, 7-22-69, Cl. 307-41.
Buiting, Francis P.; and Obenhaus, Robert E., to Texas Instruments, Incorporated. Control apparatus. 3,457,460, 7-22-69, Cl. 317-13.
Buiting, Francis P.; and Waseleski, Joseph W., Jr., to Texas Instruments, Incorporated. Thermistor temperature control system. 3,474,963, 10-28-69, Cl. 236-68.
Buiting, Francis P.: *See—*
Waseleski, Joseph W., Jr.; Buiting, Francis P.; and Kulwicki, Bernard M.,3,434,089.
Bujtar, Carlo: *See—*
Ballini, Giuliano; and Bujtar, Carlo,3,468,962.
Bujtar, Carlo; and Martini, Emilio, to Montecatini Edison S.p.A. Process for the preparation of beta-halogen ethers. 3,444,243, 5-13-69, Cl. 260-611.
Buker, Paul S.; Taylor, Donald M.; and Weich, Peter J., to Armco Steel Corporation. Crimping tool. 3,466,727, 9-16-69, Cl. 29-200.
Bukkila, Charles J.; Eyberg, Donald T.; Lemke, John S.; and Olson, Raymond M., to Sperry Rand Corporation. Continuous vacuum deposition apparatus. 3,469,560, 9-30-69, Cl. 118-6.
Bula, Karl, 1/2 to Jossi, Hans. Pipe joint. 3,451,697, 6-24-69, Cl. 285-93.
Bulan, Edward P.; and Kober, Frederick P., to General Telephone & Electronics Laboratories Incorporated. Method of making electric battery electrodes. 3,484,346, 12-16-69, Cl. 204-56.
Bulatovic, Predrag: *See—*
Ser, Filip; Milosevic, Milan; and Bulatovic, Predrag,3,473,656.
Bulbenko, George F.; Gobran, Riad H.; and Blommers, Elizabeth A., to Thiokol Chemical Corporation. Aziridinyl derivatives of polyfunctional epoxides. 3,479,337, 11-18-69, Cl. 260-239.
Bulbenko, George F.; and Jackle, William A., to Thiokol Chemical Corporation. Process for the production of thiiranes. 3,455,952, 7-15-69, Cl. 260-327.
Bulcock, Clifford James; and Edwards, Terence, to Doulton & Co., Limited. Cap and pin insulator having an insulating layer to improve radio interference performance. 3,484,543, 12-16-69, Cl. 174-182.
Bulen, William A., to Kettering Scientific Research, Inc., mesne. Reduction of gaseous nitrogen to ammonia. 3,423,289, 1-21-69, Cl. 195-50.
Bulgatz, Jeffrey L.: *See—*
Bulgatz, Samuel N., 3,476,063.
Bulgatz, Samuel N., to Bulgatz, Jeffrey L. Automatic sewing apparatus. 3,476,063, 11-4-69, Cl. 112-2.
Bulian, Walter; Feher, Franz; and Dittmar, Armin, to Wintershall Aktiengesellschaft. Process for the extraction of sulfur from a mineral oil-sulfur solution. 3,474,028, 10-21-69, Cl. 208-230.
Bulin, Shelley A., to Case, J. I., Company. Auto-ground speed control for self propelled combine. 3,442,068, 5-6-69, Cl. 56-20.
Bulin, Shelly A., to Case, J. I., Company. Straw walker. 3,420,238, 1-7-69, Cl. 130-26.
Bulitko, Alexandr Denisovich: *See—*
Derjugin, Fedor Fedorovich; Bulitko, Alexandr Denisovich; and Plakhotnikov, Grigory Ivanovich,3,423,550.
Bulk, Robert A.; and Toth, Louis P., to Harris-Intertype Corporation. Selective and sequential interrupter for a multiple couple printing press. 3,461,798, 8-19-69, Cl. 101-184.
Bull & Roberts Inc.: *See—*
Walsh, John M., III, 3,427,489.
Bull, David George: *See—*
Aveyard, Norman; and Bull, David George,3,451,023.
Bull, Donald E., to Webcor, Inc. Semiconductor controlled rectifier current control. 3,440,438, 4-22-69, Cl. 307-113.
Bull, Eric William, to Electric & Musical Industries Limited. Circuit elements especially for use as scanning coils. 3,466,580, 9-9-69, Cl. 335-213.
Bull, Eric William; and Sampeys, Alfred Marcos, to Electric & Musical Industries Limited. Scanning coils. 3,466,586, 9-9-69, Cl. 336-200.

Bull General Electric (Nederland) N.V.: *See—*
Stegeman, Bernardus, 3,426,923.
Bull, Glen C. Dispensing apparatus. 3,445,043, 5-20-69, Cl. 222-386.5
Bull, James George: *See—*
Yuan, William Ke-Chin; Frisbie, Jack Gene; and Bull, James George,3,452,157.
Bull, Rame W.: *See—*
Staunton, John J. J.; Malter, Lewis; Gleason, William J.; Malter, Lewis; Gleason, William J.; and Bull, Rame W.,3,428,432.
Bullard, Anna K.: *See—*
Thomas, Willie H., 3,482,342.
Bullard, Calvin P.; and Luginbuhl, David E., to Universal American Corporation, (formerly Robfre Manufacturing Corporation), mesne. Nozzle shut-off valve for plastic injection molding machine. 3,431,600, 3-11-69, Cl. 18-30.
Bullard Company, The: *See—*
Bullard, Edward P., III, 3,446,117.
Bullard, E. D.: *See—*
Raschke, Herbert A., 3,470,558.
Bullard, E. D., Company: *See—*
Raschke, Herbert, 3,430,262.
Raschke, Herbert A., 3,433,522.
Raschke, Herbert A., 3,450,850.
Raschke, Herbert A., 3,475,766.
Raschke, Herbert A., 3,478,992.
Raschke, Herbet A., 3,427,660.
Bullard, Edward P., III, to Bullard Company, The. Retractable tool support. 3,446,117, 5-27-69, Cl. 90-55.
Bullard, Richard W., to United States of America, Army. Vibration damped platform. 3,464,657, 9-2-69, Cl. 248-20.
Bullard, Richard W., to United States of America, Army. Film image compression and reader. 3,475,614, 10-28-69, Cl. 250-219.
Bullard, Russell H. Heat exchanger with baffle securing means. 3,437,133, 4-8-69, Cl. 165-149.
Bulldozer Koji Co., Ltd.: *See—*
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo, 3,446,173.
Buller, Joseph S., to Santa Barbara Research Center. Radiation cooler for use in space. 3,422,886, 1-21-69, Cl. 165-80.
Buller, Leonard E., to Aeroquip Corporation. Flexmaster end restraint. 3,432,189, 3-11-69, Cl. 285-232.
Bullfinch (Gas Equipment) Limited: *See—*
Lynes, Roberts Kitchener; Willis, John Marden; and Taylor, John William, 3,484,074.
Bullinger, Theo; and Feuszner, Hannes, to U.S. Philips Corporation, mesne. Stepping motor with start and stop stator windings. 3,486,098, 12-23-69, Cl. 318-254.
Bullington, John W.: *See—*
Bowers, Clarence A.; and Bullington, John W.,3,475,208.
Bullivant, Kenneth Walter, to Kane Air Scale Comny. Liquid level transmitter. 3,451,420, 6-24-69, Cl. 137-403.
Bullivant, Kenneth W.; and Kane, Edward, to Kane Air Scale Company. Regulated load cell. 3,425,503, 2-4-69, Cl. 177-208.
Bullmerwerk Bullmer, Karl: *See—*
Stumpf, Gunter O.; Lange, Erwin; and Eppinger, Hermann, 3,452,671.
Bulloch, James E.; and Platt, Walter A., to Bendix Corporation, The. Flight control system for a space vehicle. 3,424,402, 1-28-69, Cl. 244-1.
Bullock, Barney. Fastening for a vehicle safety harness. 3,427,694, 2-18-69, Cl. 24-230.
Bullock, Cyril Leslie, to Pilkington Brothers Limited. Tongs. 3,456,985, 7-22-69, Cl. 294-119.
Bullock, Harry L., to National Engineering Company. Method and apparatus for electrostatic separation. 3,426,895, 2-11-69, Cl. 209-129.
Bullock, Ian H., to Koebel Diamond Tool Co. Indexable dressing tool. 3,452,735, 7-1-69, Cl. 125-39.
Bullock, Joel B.; and Welch, Clark M., to United States of America, Agriculture. Process for reducing the flammability and increasing the weather-resistance of fibrous organic materials. 3,459,589, 8-5-69, Cl. 117-136.
Bullock, Kenneth R.; and Tomlinson, Harry M., to Anaconda Wire and Cable Company. Electric cable. 3,459,877, 8-5-69, Cl. 174-107.
Bullock, Milon Walker, to American Cyanamid Company. Method of resolving dl6-phenyl-2,3,5,6- tetrahydroimidazo[2,1-f]-thiazole and novel compounds resulting therefrom. 3,463,786, 8-26-69, Cl. 260-306.7
Bullock, Milon W.; and Rohrbacher, George H., Jr., to American Cyanamid Company. O,O-dilower alkyl-O-(3-lower alkyl-4- sulfonoyl)-phenyl phosphorothioates. 3,435,100, 3-25-69, Cl. 260-944.
Bullough, Leon D. Fluid power drive apparatus. 3,446,019, 5-27-69, Cl. 60-52.
Bullough, Vaughn L., to Reynolds Metals Company. Cell lining system. 3,457,158, 7-22-69, Cl. 204-243.
Bullough, Vaughn L., to Reynolds Metals Company. Method of treating cathode surfaces in alumina reduction cells. 3,471,380, 10-7-69, Cl. 204-67.
Bullough, William, to British Iron and Steel Research Association, The. Formation of coatings. 3,486,484, 12-30-69, Cl. 118-636.
Bullwinkel, Bernhard A.; Epstein Herbert R.; and Olson, William P., to Belock Instrument Corporation. Film strip precision dynamic plotting projector. 3,441,941, 4-29-69, Cl. 346-17.
Bulos, Fatin: *See—*
Odian, Allen C.; Bulos, Fatin; Villa, Francesco; and Yount, David E.,3,445,661.
Bulova Watch Company, Inc.: *See—*
Applegate, Howard W., 3,424,413.
Bennett, William O., 3,421,309.
Bennett, William O.; and Mutter, William W., 3,421,310.
Bennett, William O.; and Mutter, William W., 3,421,311.
Mutter, William W.; and Gruner, George P., 3,439,493.
Bulow, Arthur J.: *See—*
Merritt, Edward E.; Titterud, Curtiss W.; Peterson, Stanley E.; and Bulow, Arthur J.,3,478,390.
Bulow, William N., to Smoothie Products, Inc. Smoothing comb II. 3,473,540, 10-21-69, Cl. 132-139.
Bulpitt & Sons Limited: *See—*
Tyler, Arthur, 3,444,355.
Bult, Eddo A.: *See—*
Perez, Louis N.; and Bult, Eddo A.,3,424,336.
Bulthuis, Henricus Wilhelmus; and Groeneweg, Abraham, to N.V. Optische Industrie 'De Oude Delft'. Binocular night telescope with single image tube. 3,454,773, 7-8-69, Cl. 250-213.
Buludoza Koji Kabushiki Kaisha: *See—*
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo, 3,446,173.
Bumbulis, Janis: *See—*
Eng, Jackson; and Bumbulis, Janis,3,434,961.
Bunch, Russell W.; and Cousins, Richard C., to Dillingham Corporation, mesne. Method of fabricating gate valve. 3,447,222, 6-3-69, Cl. 29-157.
Bundrant, Lewis J.: *See—*
Glasscock, Ira, Jr.; and Bundrant, Lewis J.,3,442,538.
Bundus, Robert H., to Beatrice Foods Co. Separation of frozen hog skins. 3,428,231, 2-18-69, Cl. 225-1.
Bundus, Robert H.; and Luksas, Anthony J., to Beatrice Foods Co. Bread flavor. 3,466,174, 9-9-69, Cl. 99-90.
Bundus, Robert H.; and Luksas, Anthony J., to Beatrice Foods Co. Manufacture of synthetic bread flavor. 3,466,176, 9-9-69, Cl. 99-140.
Bundus, Robert H.; and Luksas, Anthony J., to Beatrice Foods Co. Bread flavor concentrate. 3,466,177, 9-9-69, Cl. 99-140.
Bundus, Robert H.; and Luksas, Anthony J., to Beatrice Foods Co. Dough flavor concentrate. 3,485,641, 12-23-69, Cl. 99-140.
Bundus, Robert H.: *See—*
Luksas, Anthony J.; and Bundus, Robert H.,3,449,132.
Noznick, Peter P.; Bundus, Robert H.; and Luksas, Anthony J.,3,446,627.
Bundy, Albert J.; and Williams, James L., to American Saint Gobain Corporation. Glass case. 3,451,542, 6-24-69, Cl. 206-56.
Bundy Corporation: *See—*
Knox, David R., 3,434,503.
Bundy, Wayne M.; and Berberich, Joseph P., to Georgia Kaolin Company. Kaolin treatment. 3,477,809, 11-11-69, Cl. 23-110.
Bundy, William C. Container construction. 3,426,814, 2-11-69, Cl. 150-42.
Bungardt, Karl; and Spyra, Wolfgang, to Edelstahlwerke Aktiengesellschaft. Precipitation hardenable austenitic steel. 3,441,406, 4-29-69, Cl. 75-128.
Bungardt, Walter: *See—*
Kallenbach, Rudolf; and Bungardt, Walter,3,440,040.
Kallenbach, Rudolf; and Bungardt, Walter,3,440,041.
Bungay, Henry R., III, to Research Corporation. Pulse distribution analysis device. 3,457,420, 7-22-69, Cl. 250-219.
Bungener, Jakobus A.: *See—*
Clark, John E.; and Bungener, Jakobus A.,3,454,494.
Bunger, David A., to Baldwin, D. H., Company. Composite tuning fork filters. 3,437,850, 4-8-69, Cl. 310-9.6
Bunger, Dennen J.: *See—*
Fant, Warwick; and Bunger, Dennen J.,3,458,019.
Bunger, Richard E. Apparatus for making livestock feeding trough. 3,476,352, 11-4-69, Cl. 249-146.
Bunger, Robert C., to Combustion Engineering, Inc. Nuclear fuel hoist. 3,421,635, 1-14-69, Cl. 212-129.
Bunger, Waldemar. Storage and sales container. 3,423,143, 1-21-69, Cl. 312-71.
Bungs, Janis A., to Diamond Shamrock Corporation. Liquid polyether polyol composition and preparation. 3,437,591, 4-8-69, Cl. 252-8.1
Bungs, Janis A., to Diamond Shamrock Corporation. Polyol composition for preparing urethane plastics. 3,440,259, 4-22-69, Cl. 260-446.
Bunin, Donald S.: *See—*
Oringer, Kenneth; Gallagher, Gerald T.; Bunin, Donald S.; and Easton, Bernard E.,3,432,546.
Buning, Robert: *See—*
Pungs, Wolfgang; Buning, Robert; and Diessel, Karlheinz,3,481,893.

Buning, Robert, to Dynamit Nobel Aktiengesellschaft. Molding composition comprising polyvinylchloride, ethylene-vinyl acetate copolymer, and polyethylene. 3,457,330, 7-22-69, Cl. 260-897.
Buning, Robert; Diessel, Karl-Heinz; and Konermann, Hans-Ewald, to Dynamit Nobel Aktiengesellschaft. Threads, fibers, fabrics, tapes and films based on post-chlorinated polyvinyl chloride, and method for production thereof. 3,462,402, 8-19-69, Cl. 260-92.8
Buning, Robert; Konermann, Hans-Ewald; Diessel, Karl-Heinz; and Bier, Gerhard, to Dynamit Nobel Aktiengesellschaft. Blends comprising chlorinated polyvinyl chloride and chlorinated polyethylene. 3,459,692, 8-5-69, Cl. 260-23.
Bunish, Steve; and Perrone, Rosario J., to Anaconda Wire and Cable Company. Method for extruding cable covering with a fibrous interlayer. 3,487,149, 12-30-69, Cl. 264-174.
Bunker Hill Company, The: *See*—
Jasberg, Peter M., 3,472,249.
Orlandini, Bruno; and Kirkpatrick, Kenneth K., 3,479,378.
Orlandini, Bruno; and Schmittroth, Walter, 3,482,966.
Bunker-Ramo Corporation, The: *See*—
Adams, Robert V., 3,478,808.
Bertram, Sidney, 3,473,875.
Beynon, John C., 3,445,928.
Bryan, Roland F., 3,438,003.
Chirumbolo, Joseph F., 3,478,302.
Chirumbolo, Joseph F., 3,478,305.
Cranch, William E., 3,458,687.
Dean, Erasmus M., 3,440,646.
Eggert, Carl A., 3,437,873.
Eggert, Carl A., 3,487,164.
Feuer, Robert, 3,447,137.
Foerster, Roy P., 3,451,001.
Foerster, Roy P., 3,465,158.
Foerster, Roy P., 3,465,169.
Gerlach, Glenn W.; and Paul, Albert E., 3,450,948.
Greenblum, Carl, 3,428,851.
Greenblum, Carl, 3,428,852.
Greenblum, Carl, 3,439,219.
Greenblum, Carl; Buegler, Robert J.; McCarroll, Joseph F.; Avakian, Emik A.; and Granbery, John, 3,484,748.
Heath, Herbert E.; and Skaggs, Clyde W., 3,423,260.
Henderson, Martin C.; and Higbee, John E., 3,437,872.
Henderson, Martin C., 3,440,480.
Henderson, Martin C., 3,483,547.
Higbee, John E.; and Henderson, Martin C., 3,465,200.
Ireland, John W.; and Holloway, James C., 3,457,636.
Koerner, Ralph J., 3,438,015.
Koerner, Ralph J., 3,458,802.
Koerner, Ralph J., 3,465,303.
Koerner, Ralph J., 3,465,304.
Koerner, Ralph J., 3,483,528.
Kosem, Marion, 3,479,574.
La Duke, Norman L.; and Proctor, Thomas, 3,465,298.
Lawrence, John A., 3,458,725.
Lawrence, Robert, 3,470,522.
Lynch, Thomas H.; and Patten, Hudson T., III, 3,482,647.
McCreary, Harold J., 3,452,336.
Mears, Francis C., 3,465,223.
Miller, George P.; and Terracciano, Benny J., 3,464,283.
Nissim, Samuel; and Francis, John P., 3,420,992.
Nissim, Samuel, 3,438,009.
Nissim, Samuel, 3,447,037.
Paul, Albert E., 3,450,829.
Rosener, Harvey J., 3,422,373.
Rosener, Harvey J., 3,422,374.
Schmitt, Karl-Friedrich, 3,478,296.
Sear, Brian E., 3,462,699.
Skaggs, Clyde W.; and Jefferson, Clifford T., Jr., 3,423,205.
Smith, Charles W., 3,437,883.
Smith, Charles W., 3,458,807.
Smith, Charles W., 3,477,119.
Bunkner Industries, Inc.: *See*—
Royer, John A., 3,459,403.
Bunn, B. H., Company: *See*—
Anderson, Jarl H.; Schlinger, Robert Charles; and Hall, John R., 3,456,897.
Rosenberg, Harold J.; Sorrells, John R.; and Trent, Joseph E., 3,420,368.
Schlinger, Robert Charles; and Hall, John Robert, 3,472,157.
Bunn, Clinton O. Vapor detecting device. 3,441,693, 4-29-69, Cl. 200-61.04
Bunn, Dorrance P., Jr.; and Janes, Edward F., to Texaco Inc. Separation of impurities in an isomerization process. 3,445,542, 5-20-69, Cl. 260-683.65
Bunn, Dorrance P., Jr.; Janes, Edward F.; and Williams, Dale, to Texaco Inc. Method of preparing cyclohexane from toluene. 3,476,818, 11-4-69, Cl. 260-667.
Bunn, Dorrance P., Jr.; Jones, Henry B.; and Nagle, Richard E., to Texaco Inc. Method and apparatus for fluid catalytic cracking. 3,433,733, 3-18-69, Cl. 208-150.
Bunn, Dorrance P., Jr.; Jones, Henry B.; and Nagle, Richard E. Cracking with crystalline zeolite catalyst. 3,448,037, 6-3-69, Cl. 208-164.
Bunn, Edward Schaible, to Revere Copper and Brass Incorporated. Method of bonding. 3,481,024, 12-2-69, Cl. 29-473.5
Bunn, George B., to General Electric Company. Slotted cordwood module. 3,487,269, 12-30-69, Cl. 317-101.
Bunn, Willis P.; Milosevich, Charles; and Mosher, Robert E., to United States of America, Air Force. Module test fixture having module-key sensing and test probe elements. 3,452,280, 6-24-69, Cl. 324-158.
Bunn-O-Matic Corporation: *See*—
Martin, John C., 3,450,024.
Bunner, James E.; and Griffis, Daniel L., to General Electric Company. Commutation improvement for dynamoelectric machine. 3,466,480, 9-9-69, Cl. 310-218.
Bunten, Theodore M., to Repco Products Corporation. Combustion chambers for domestic heating boilers. 3,474,765, 10-28-69, Cl. 122-510.
Bunting, Ernest V.; and Lind, Hans V., to Massey-Ferguson Inc. Mixed draft and position control. 3,422,906, 1-21-69, Cl. 172-9.
Bunting, Leslie J., to Eastman Kodak Company. Film guide edges on projection cartridge. 3,451,636, 6-24-69, Cl. 242-71.1
Bunting, Leslie J., to Eastman Kodak Company. Supply roll spindle assembly for cinematographic projectors. 3,468,498, 9-23-69, Cl. 242-55.12
Bunton, William J.; Beagles, John A.; and Good, Dale E. Underwater tripod and plumbing gimbal. 3,430,349, 3-4-69, Cl. 33-180.
Buntschuh, Henry C.; and Duvoisin, Jean A., to United Aircraft Corporation. Readily assembled resolver having multiple pole pairs. 3,431,525, 3-4-69, Cl. 336-123.
Bunyan, Thomas W., to P & O Pilgram Valve Limited. Tensioning of bolts, studs and like screw-threaded members. 3,462,180, 8-19-69, Cl. 287-189.36
Bunyard, Alan Donald; Norris, Kenneth William; and Lucas, Alan Hubert, to Norris Filters Limited. Stacked filter elements. 3,473,668, 10-21-69, Cl. 210-344.
Bunzli, Max: *See*—
Witschi, Fritz; and Bunzli, Max,3,449,797.
Buono, Frank S., to Becton, Dickinson and Company. Three-way stopcock. 3,485,265, 12-23-69, Cl. 137-556.6
Buonocore, Edward: *See*—
Fenton, Leonard; and Buonocore, Edward,3,470,869.
Burant, Leonard J.: *See*—
Jones, Kenneth R.; Burant, Leonard J.; and Wolter, Donald R.,3,451,855.
Burant, Leonard Joseph; and Fiandt, Ronald Maynard. Deferred action battery. 3,427,201, 2-11-69, Cl. 136-100.
Burant, Leonard Joseph; and Peterson, Bruce Even, to Globe-Union Inc. Battery having controlled life. 3,471,766, 10-7-69, Cl. 320-51.
Burbank, John E., to Scovill Manufacturing Company. Woven zipper fastener stringer. 3,454,052, 7-8-69, Cl. 139-384.
Burbank, John Emerson, to Scovill Manufacturing Company. Shuttleless loom. 3,457,964, 7-29-69, Cl. 139-11.
Burbank, John Emerson, to Scovill Manufacturing Company. Loom for weaving slide fastener stringers. 3,457,965, 7-29-69, Cl. 139-11.
Burbidge, Bernard Whiting: *See*—
Lawrance, Paul Anthony; and Burbidge, Bernard Whiting,3,440,178.
Burbidge, Kenneth. Tape dispensers. 3,447,718, 6-3-69, Cl. 221-73.
Burbine, William G.: *See*—
Jordan, Merrill E.; and Burbine, William G.,3,464,793.
Wendell, Charles B.; Jordan, Merrill E.; Burbine, William G.; and Shelvey, Richard B.,3,443,901.
Burbridge, William P.; Morgan, John R.; and Schmitt, Thomas S., to Surgical Eng. and Research Corp. Method and apparatus for dental anesthetization. 3,467,104, 9-16-69, Cl. 128-400.
Burby, Robert W., to Ford Motor Company. Direct current motor speed control. 3,469,166, 9-23-69, Cl. 318-361.
Burch, Arthur R., to Declark, Inc. Control apparatus for material-unit stacker. 3,428,149, 2-18-69, Cl. 187-29.
Burch, Arthur R., to Declark, Inc. Method and mean for moving material-units. 3,445,009, 5-20-69, Cl. 214-16.4
Burch, Byron F., Jr.: *See*—
Boennighausen, Richard A.; and Burch, Byron F., Jr.,3,487,368.
Burch, Clarence S.: *See*—
Street, Hervey Van C.; and Burch, Clarence S.,3,445,834.
Burch, Edward N. Combination sled and boat. 3,467,048, 9-16-69, Cl. 115-21.
Burch, Homer Albert, to Norwich Pharmacal Company, The. N'-Cyano-5-nitro-2-furamidine. 3,427,329, 2-11-69, Cl. 260-347.7
Burch, Homer Albert, to Norwich Pharmacal Company, The. Antibacterial composition containing 5-nitro-2- furyl-1,2,4-triazoles. 3,427,387, 2-11-69, Cl. 424-264.
Burch, Homer Albert, to Norwich Pharmacal Company, The. 4-Acetyl-5,5-dimethyl-2-(5-nitro-2-furyl)-Δ^2- 1,3,4-oxadiazoline. 3,450,708, 6-17-69, Cl. 260-307.

Burch, James B.: *See—*
Smith, James R.; Herrell, Robert C.; and Burch, James B.,3,456,899.
Burch, Jerry F. Spring activated fish hooks. 3,439,442, 4-22-69, Cl. 43-36.
Burch, Joseph E.: *See—*
Snyder, Milton J.; Lipinsky, Edward S.; and Burch, Joseph E.,3,424,598.
Burch, Lyndon Walkup. Snap action switch using overtravel. 3,436,501, 4-1-69, Cl. 200-68.
Burch, Oren P. Method of manufacturing patterned panel. 3,480,501, 11-25-69, Cl. 156-228.
Burch, Paul F., to Wolverine World Wide, Inc. Skinning method. 3,424,217, 1-28-69, Cl. 146-241.
Burch, Paul F., to Wolverine World Wide, Inc. Method of using a singeing machine. 3,472,499, 10-14-69, Cl. 263-52.
Burchett, Keith L. Hydraulic concrete pipemaking machines. 3,458,908, 8-5-69, Cl. 25-31.
Burchill, Richard F.; and Miller, Robert H., to Caterpillar Tractor Company. Pushbutton decelerator control for engine governors. 3,472,126, 10-14-69, Cl. 91-386.
Burckhardt, Christoph B.; and Collier, Robert J., to Bell Telephone Laboratories, Incorporated. Holographic matched filter pattern recognition. 3,483,513, 12-9-69, Cl. 340-146.3
Burckhardt, Christoph B:; and Pennington, Keith S., to Bell Telephone Laboratories, Incorporated. Pattern recognition apparatus utilizing complex spatial filtering. 3,435,244, 3-25-69, Cl. 250-219.
Burcz, Lawrence D., to Ford Motor Company. Automatic speed control for an automotive vehicle with a transmission governor feedback circuit. 3,472,099, 10-14-69, Cl. 74-859.
Burcz, Melvin E. Art of golf training. 3,444,741, 5-20-69, Cl. 73-379.
Burd, John W.; and Groves, Warren O., to Monsanto Company. Apparatus and method for production of epitaxial films. 3,441,000, 4-29-69, Cl. 118-49.1
Burda, Charles J., to Dow Corning Corporation. Wound dressing. 3,439,676, 4-22-69, Cl. 128-268.
Burda, Laidslav: *See—*
Stepanek, Karel; and Burda, Laidslav,3,456,523.
Burden, David Abbott: *See—*
Anghinetti, Joseph Richard; Burden, David Abbott; and Pelletier, Albert Eugene,3,420,021.
Burden, Peter: *See—*
Freeman, Dennis B.; and Burden, Peter,3,449,222.
Freeman, Dennis B.; and Burden, Peter,3,449,229.
Burden, Roy B., Jr., to General Incinerators of California, Inc. Method and apparatus for destroying sludge. 3,472,185, 10-14-69, Cl. 110-8.
Burden, Roy B., Jr.; and O'Gieblyn, Ernest J., to General Incinerators of California, Inc., mesne. Method and apparatus for destroying bulk paper and other bulk materials. 3,453,976, 7-8-69, Cl. 110-18.
Burdeska, Kurt E.; von der Crone, Jost; Menasse, Raphael; and Pugin, Andre, to Geigy, J. R., A. G. Substituted benzoquinones and the preparation thereof. 3,424,767, 1-28-69, Cl. 260-396.
Burdeska, Kurt E.: *See—*
Pugin, Andre; Burdeska, Kurt E.; and Staub, Alfred,3,483,213.
Pugin, Andre; Burdeska, Kurt E.; and Staug, Alfred,3,484,454.
Burdett, Edward Raymond, to English Electric Company Limited, The. Magnetic actuators. 3,471,814, 10-7-69, Cl. 335-174.
Burdett, Edward Raymond, to English Electric Company Limited, The. Timing circuits. 3,474,257, 10-21-69, Cl. 307-107.
Burdett, Harold D. Trash can container. 3,428,245, 2-18-69, Cl. 232-43.2
Burdett, Harold D. Expandable form for hollow-core concrete construction. 3,476,351, 11-4-69, Cl. 249-82.
Burdge, Sam W.; and Carter, Rollins S., to Monsanto Company. Heated roll method. 3,429,034, 2-25-69, Cl. 29-611.
Burdick & Jackson Laboratories, Inc.: *See—*
Jackson, William G.; and Schroeder, William, 3,484,387.
Burdick Corporation, The: *See—*
Partridge, Leslie W., 3,456,212.
Partridge, Leslie W., 3,466,558.
Partridge, Leslie W., 3,469,115.
Partridge, Leslie W., 3,477,421.
Burdick, Donald L.; Francis, William C.; and Jones, Joseph W, Jr., to Gulf Oil Corporation. Polyesters from tris (2-hydroxyethyl) isocyanurate. 3,448,084, 6-3-69, Cl. 260-75.
Burdick, Donald L.; and Lyons, Harold D., to Gulf Oil Corporation. Aqueous-based polish comprising ethylene arcylate styrene and/or acrylate esters. 3,440,188, 4-22-69, Cl. 260-8.
Burdick, Glen A., to Sylvania Electric Products, Inc. Convergence apparatus for multi-gun cathode ray tubes. 3,453,472, 7-1-69, Cl. 313-77.
Burdock, Joseph L.; and Cioffi, Angelo J., to Universal Oil Products Company. Apparatus for removing suspended particles from gases. 3,483,678, 12-16-69, Cl. 55-348.
Burdsall Russell & Ward Bolt and Nut Company: *See—*
Tabor, Joseph A., 3,459,250.
Burdyn, Ralph F.; and Nelson, Murrell D., to Mobil Oil Corporation. Process for recovering valuable components from drilling fluid. 3,433,312, 3-18-69, Cl. 175-66.
Bureau de Recherches Geologiques et Minieres: *See—*
Bonnivard, Georges, 3,458,278.
Tabourin, Jean F., 3,466,146.
Buren Watch Company S.A.: *See—*
Kocher, Hans, 3,460,341.
Kocher, Hans, 3,479,813.
Bures, Ladislav: *See—*
Rajnoha, Jaroslav; and Bures, Ladislav,3,455,097.
Bures, Miroslav; and Bouchal, Frantisek, to Meopta, narodni podnik. Photographic projection printer. 3,451,753, 6-24-69, Cl. 355-67.
Buresh, Tom K.; and Zeigler, Ralph W., to Fisher Governor Company. In-line flow, pilot-operated, high-pressure gas regulator. 3,456,674, 7-22-69, Cl. 137-220.
Burfield, Peter C.; and Micai, Louis Z., to Federal-Mogul Corporation. Method of making a unitized seal. 3,479,728, 11-25-69, Cl. 29-450.
Burford, Charles E. Baking pan. 3,478,998, 11-18-69, Cl. 249-120.
Burford, William B., III: *See—*
Breitweiser, Gary C.; and Burford, William B., III,3,442,019.
Burg, Fred G.; and Lenders, Socrates, to Houdaille Industries, Inc., mesne. Fine-medium-coarse servomotor position control. 3,444,446, 5-13-69, Cl. 318-18.
Burg, Kenneth E., to Texas Instruments, Incorporated. Underwater navigation method and system. 3,437,987, 4-8-69, Cl. 340-3.
Burgarella, John Paul, to Polaroid Corporation. Exposure control apparatus. 3,461,784, 8-19-69, Cl. 95-53.3
Burgarella, John P., to Polaroid Corporation. Shutter control system for photographic apparatus. 3,433,138, 3-18-69, Cl. 95-10.
Burgarella, John P., to Polaroid Corporation. Exposure control apparatus for photographic camera. 3,446,129, 5-27-69, Cl. 95-10.
Burgarella, John P., to Polaroid Corporation. Automatic aperture selection system. 3,455,219, 7-15-69, Cl. 95-10.
Burgaud, Jean Loup: *See—*
Kikindai, Tivadar; and Burgaud, Jean Loup,3,479,281.
Burge, Harland L., Jr.; Falkenstein, Gary L.; and Roberts, Robert W., to North American Rockwell Corporation. Gas generator for enhancing propellant ignition. 3,421,316, 1-14-69, Cl. 60-39.06
Burge, Helmut W., to International Business Machines Corporation. Liquid sample supply apparatus. 3,430,495, 3-4-69, Cl. 73-423.
Burge, Joseph C.; and Follmer, Richard W., to General Electric Company. Low profile stator adjusting mechanism. 3,458,118, 7-29-69, Cl. 230-114.
Burge, Keith W. Package of cans. 3,446,346, 5-27-69, Cl. 206-65.
Burger Chef Systems, Inc.: *See—*
Thomas, Donald J., 3,460,716.
Thomas, Donald J., 3,460,717.
Burger, Edwin M., to Oliver Tire & Rubber Company. Volumetric checking device for elongated elastomeric articles. 3,455,194, 7-15-69, Cl. 83-352.
Burger, Edwin M., to Oliver Tire & Rubber Company. Method for molding elongated elastomeric articles. 3,485,908, 12-23-69, Cl. 264-102.
Burger Eisenwerke Aktiengesellschaft: *See—*
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, 3,432,642.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, 3,435,754.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, 3,435,755.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, 3,450,027.
Sauer, Paul, 3,465,124.
Burger, Erich: *See—*
Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter,3,447,438.
Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter,3,472,695.
Burger, Harry, Jr.: *See—*
Boya, Theodore L. F.; and Burger, Harry, Jr.,3,462,733.
Burger, Heinz: *See—*
Weber, Heinz; Burger, Heinz; Daumiller, Guenther; Willersinn, Herbert; and Grohmann, Johannes,3,420,786.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Weber, Heinz; and Willersinn, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Self-extinguishing thermoplastic compositions. 3,457,204, 7-22-69, Cl. 260-2.5
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Self-extinguishing thermoplastic compositions. 3,472,799, 10-14-69, Cl. 260-2.5
Burger, Heinz; Mohr, Heinrich; Priebe, Edmund; Reuter, Lothar; and Weber, Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Self-extinguishing thermoplastic compositions. 3,441,524, 4-29-69, Cl. 260-2.5
Burger, Helga: *See—*
Wacks, Klaus; and Burger, Helga,3,443,892.
Burger, J. C.: *See—*
Gilles, Wallace; Yamasaki, George K.; and Burger, J. C.,3,476,970.

Burger, Jack E., to Addressograph-Multigraph Corporation. Control system for master processing and duplicating. 3,457,857, 7-29-69, Cl. 101-144.
Burger, Jeanne Fanny: *See—*
Hartmann, Max; and Burger, Willy,3,461,915.
Burger, Karl-Heinz, to Bosch, Robert, G.m.b.H. Worm gearing with anti-backlash means. 3,469,469, 9-30-69, Cl. 74-409.
Burger, Nicholas J., to Electro-Therm, Inc. Composite oven liner and heating element structure for self-cleaning ovens. 3,452,183, 6-24-69, Cl. 219-406.
Burger, Nicholas J., to Electro-Therm, Inc. Plug-in electric heating assembly. 3,466,427, 9-9-69, Cl. 219-451.
Burger, Rudolf; and Scholz, Horst, to VEB Mansfeld-Kombinat 'W. Pieck'. Programmed instruction response circuit. 3,460,275, 8-12-69, Cl. 35-48.
Burger, Theodore G.: *See—*
Petko, Michael A.; and Burger, Theodore G.,3,439,512.
Burger, Willy: *See—*
Hartmann, Max; and Burger, Willy,3,461,915.
Burgert, Bill E.: *See—*
Heinert, Dietrich H.; and Burgert, Bill E.,3,457,287.
Burgess, Colin Michael: *See—*
Petrow, Valdimir; Burgess, Colin Michael; and Feather, Peter,3,470,193.
Burgess, Dennis A., to Colight, Inc. Exposure device. 3,479,121, 11-18-69, Cl. 355-85.
Burgess, Harry Lee, to Hudson Machine Works, Inc. Pilot valve and multiple pilot valve unit. 3,460,614, 8-12-69, Cl. 166-0.6
Burgess, Harry L., to Stewart, C. Jim, & Stevenson, Inc., mesne. Underwater connecting apparatus. 3,486,556, 12-30-69, Cl. 166-0.6
Burgess, Henry A. Safety cap for medicine bottle or the like. 3,432,058, 3-11-69, Cl. 215-9.
Burgess, Hovey M.; and Mellentin, Robert W., to General Foods Corporation. Method of making animal food. 3,482,985, 12-9-69, Cl. 99-2.
Burgess, James F.; and Sewell, Gordon J., to General Electric Company. Method of etching a metal layer coated with a layer containing a photolytic halogen liberator and a bleachable organic dye. 3,485,630, 12-23-69, Cl. 96-36.
Burgess, James F.: *See—*
Schaefer, Donald L.; and Burgess, James F.,3,482,976.
Burgess, James V., Jr. Ventilation control system. 3,464,756, 9-2-69, Cl. 299-19.
Burgess, James. Fruit picking device. 3,449,896, 6-17-69, Cl. 56-339.
Burgess, John Llewellyn; Daniels, Barrie; and Whale, William Edward, to Imperial Chemical Industries Limited. Method and apparatus for crimping yarn. 3,462,811, 8-26-69, Cl. 28-1.
Burgess, John R.; and Pflaumer, Peter E., to Westinghouse Electric Corporation. Conductive interconnections and contacts on semiconductor devices. 3,430,104, 2-25-69, Cl. 317-101.
Burgess, Keith A.: *See—*
Raynor, Warren S.; and Burgess, Keith A.,3,448,867.
Burgess, Lester D., to Lif-O-Gen, Inc. Purgeable gas pressure regulators. 3,474,816, 10-28-69, Cl. 137-238.
Burgess, Louis M.; and Sarbacher, Robert I. Vehicle tire pressure alarm system. 3,453,590, 7-1-69, Cl. 340-58.
Burgess, Nathan S., Jr.; and De Lisse, Carroll W., to United States of America, mesne. Temperature sensor probe. 3,451,862, 6-24-69, Cl. 136-231.
Burgess, Paul N.; Cardwell, Robert E.; and Remski, Frank R., to Bell Telephone Laboratories, Incorporated. Bilateral transistor gate circuit. 3,476,956, 11-4-69, Cl. 307-254.
Burgess Publishing Company: *See—*
Idoine, Leon S.; and Saxon, Richard B., 3,472,465.
Burgess, Thomas H. Cooling means for multiple rotor AC motor. 3,456,141, 7-15-69, Cl. 310-114.
Burgess Vibrocrafters, Inc.: *See—*
Congdon, George L., 3,448,924.
Burgess, William H., Jr.: *See—*
Brewster, Donald B.; and Burgess, William H., Jr.,3,463,700.
Burgess, William R. Method of regenerating ion exchange material from service demineralizers. 3,429,807, 2-25-69, Cl. 210-25.
Burgess-Norton Mfg. Co.: *See—*
Andreotti, Eugene R.; and McGee, Sherwood W., 3,459,547.
Burgett, Elbert B. Rotary toothbrush. 3,451,086, 6-24-69, Cl. 15-23.
Burggraaf, Anthonie Jan; van der Stelt, Ernest Onno Willem; and de Ruiter, Jacob Willem, to U.S. Philips Corporation. Apparatus for and method of providing a melted insulating coating on the inner surface of a tubular article. 3,484,276, 12-16-69, Cl. 117-95.
Burgh, Ernst E.: *See—*
Cameron, Russell J.; Nielsen, Irvin P.; and Burgh, Ernst E.,3,460,867.
Burghard, Stephen Frederic; and Wilder, John Herbert Wyndham, to Wilder, John, Limited. Batch drier for grain. 3,451,662, 6-24-69, Cl. 263-10.
Burghardt, Alfons: *See—*
Schroter, Kurt; Nienhaus, Clemans; Vollmer, Jurgen; and Burghardt, Alfons,3,465,327.
Burgher, Harvey W. Skid turner. 3,429,456, 2-25-69, Cl. 214-1.
Burgis, Beverly G.: *See—*
McKelvey, John B.; Benerito, Ruth R.; Berni, Ralph J.; and Burgis, Beverly G.,3,441,609.
Burgis, Clare N.; and Kakuda, Roy Y., to General Precision Systems, Inc. Synchro-to-digital converter. 3,440,644, 4-22-69, Cl. 340-347.
Burgman, Jerome A.; and Margason, Lester L. Method and apparatus for producing an intermittently hollow glass filament. 3,421,873, 1-14-69, Cl. 65-1.
Burgo, Paul A.: *See—*
Sutliff, Robert C.; Burgo, Paul A.; Butler, Ernest J.; and Pierson, Charles W.,3,431,380.
Burgoon, Jack L.: *See—*
Dolan, Francis D.; and Burgoon, Jack L.,3,434,178.
Burgoyne, Beverly A. Ornamental hair clip. 3,456,656, 7-22-69, Cl. 132-48.
Burgsmuller, Karl. System for cutting threads. 3,486,413, 12-30-69, Cl. 90-11.42
Burgwald, Louis H.: *See—*
Schwartz, Daniel P.; Brewington, Charles R.; and Burgwald, Louis H.,3,450,541.
Burhans, Allison S.: *See—*
Soldatos, Anthony C.; and Burhans, Allison S.,3,441,522.
Burhans, Hollis M.: *See—*
Gray, Donald M.; Burhans, Hollis M.; and Gray, Wendell H.,3,476,249.
Burhans, Stuart J.: *See—*
Stephens, Frederick N.; and Burhans, Stuart J.,3,458,716.
Burian, Theodor; and Schoo, Hermann, to International Standard Electric Corporation. Multi-frequency code signalling methods. 3,441,676, 4-29-69, Cl. 179-16.
Burich, John J.: *See—*
Capalia, Nick N.; and Burich, John J.,3,464,155.
Burk, Duane L.: *See—*
Durham, Donald F.; and Burk, Duane L.,3,480,338.
Burk, Emmett H., Jr.; and Carlos, Donald D., to Sinclair Research, Inc. Process for preparing aliphatic monoisocyanates. 3,423,448, 1-21-69, Cl. 260-453.
Burk, Emmett H., Jr.; and Carlos, Donald D., to Sinclair Research, Inc. Process for preparing aliphatic polyisocyanates. 3,423,449, 1-21-69, Cl. 260-453.
Burk, Emmett H., Jr.; and Carlos, Donald D., to Sinclair Research, Inc. Process for preparing aromatic polyisocyanates. 3,423,450, 1-21-69, Cl. 260-453.
Burk, Emmett H., Jr.; and Carlos, Donald D., to Sinclair Research, Inc. Addition polymers of ethylenically-unsaturated cyclic nitrile sulfites, carbonates and oxalates. 3,480,595, 11-25-69, Cl. 260-77.5
Burk, Emmett H., Jr.; and Hoffman, William D., to Sinclair Research, Inc. Production of 1-halo-3,3-dialkyl alkanes using an excess of ethylene. 3,480,559, 11-25-69, Cl. 252-431.
Burk, Emmett H., Jr.: *See—*
Carlos, Donald D.; and Burk, Emmett H., Jr.,3,423,447.
Hoffman, William D.; Burk, Emmett H., Jr.; and Eichhorn, Robert M.,3,432,570.
Burk, George A., to Dow Chemical Company, The. Method of preparing alkali metal halides. 3,431,068, 3-4-69, Cl. 23-89.
Burk, George A.; and De Mott, Donald N., to Dow Chemical Company, The. Brominated phosphites and phosphonates. 3,456,041, 7-15-69, Cl. 260-961.
Burk, James C.: *See—*
Rudolph, Curtis C., 3,428,986.
Burk, Marvin C.; and Neer, Harold M., Jr., to Phillips Petroleum Company. Chromatographic analyzer signal height reader and storage system. 3,448,291, 6-3-69, Cl. 307-235.
Burk, Marvin C.; and Roof, Lewis B., to Phillips Petroleum Company. Acoustical apparatus for detecting the composition of a gas. 3,468,157, 9-23-69, Cl. 73-24.
Burkard, Herbert G.; and Bosniack, David S., to Esso Research and Engineering Company. Esters of polynuclear alcohols and lubricating oils containing same. 3,470,099, 9-30-69, Cl. 252-57.
Burkard, Herbert G.; Henselman, Richard O.; Miller, Harold N.; and Tunkel, Norman, to Esso Research and Engineering Company. Olefin-sulfur dioxide copolymeric was crystal modifiers. 3,442,790, 5-6-69, Cl. 208-28.
Burkart, Alan R.; and Mudge, John H., to Aluminum Company of America. Continuous casting molten metal feed device. 3,477,494, 11-11-69, Cl. 164-281.
Burkart, Hermann; Dorner, Harro; and Bayersdorfer, Werner. Electromagnetically operated sequential valves. 3,447,568, 6-3-69, Cl. 137-630.13
Burkart, Leonard F., to Quigley, Norman, mesne. Pulping of lignocellulosic material with a reaction product of triethyleneglycol and organic acid. 3,442,753, 5-6-69, Cl. 162-76.
Burkart, Robert J., to Northwest Engineering Corporation. Dipper actuator for pullshovels with special cable positioning. 3,485,394, 12-23-69, Cl. 214-138.
Burkdoll, Francis B.; and Hannagan, Harold W., to Explosive Technology, Inc. Emergency egress system for vehicle. 3,454,245, 7-8-69, Cl. 244-118.
Burke, Ben: *See—*
Halko, John J., Jr., 3,480,313.

Burke, Clarence Albert: *See—*
Painton, Richard Clarence; and Burke, Clarence Albert,3,441,761.
Burke, Clarence J.; and Grosjean, Milton O., to Garrett Corporation, The. Flask for making precision castings. 3,435,885, 4-1-69, Cl. 164-385.
Burke, Donald J., to Continental Industries, Inc. Ball valve with improved resilient closing means. 3,467,355, 9-16-69, Cl. 251-163.
Burke, Douglas J.: *See—*
Amberg, Stephen W.; Burke, Douglas J.; and Nicholas, Nicholas J.,3,454,208.
Burke Flexo-Products Company: *See—*
McClellan, Bingham A., 3,429,066.
McClellan, Bingham A., 3,440,757.
Burke, Frederick, to Hipope Limited. Waste disposal vehicle. 3,484,006, 12-16-69, Cl. 214-303.
Burke, George F. C.; Duffy, Richard J.; and Peterson, Raymond L., to USM Corporation. Machine for applying locking patch to threaded element. 3,452,714, 7-1-69, Cl. 118-620.
Burke, George K., to Burron Medical Products, Inc. Syringe and needle adapter assembly. 3,469,581, 9-30-69, Cl. 128-221.
Burke, George K., to Burron Medical Products, Inc. Hypodermic needle. 3,472,227, 10-14-69, Cl. 128-221.
Burke, George K., to Burron Medical Products, Inc. Syringe assembly. 3,473,646, 10-21-69, Cl. 206-47.
Burke, Harold H.: *See—*
Wong, Bartlett; and Burke, Harold H.,3,463,423.
Burke, Harry T.; and Andrews, Ralph Lowye, to Bliss, E. W.,Company. Transfer feed press. 3,428,166, 2-18-69, Cl. 198-218.
Burke, Harry T.; Helrigel, Robert A.; and Lewis, James A., to Bliss, E. W., Company. Forming press with improved work handling apparatus. 3,483,726, 12-16-69, Cl. 72-427.
Burke, Howard J,: *See—*
Walker, Bradford H.; and Burke, Howard J,,3,455,908.
Burke, Hubert K., to General Electric Company. Integrity checking circuit for train control system. 3,450,944, 6-17-69, Cl. 317-5.
Burke, Hubert K.; and Michon, Gerald J., to General Electric Company. Function generator utilizing linear and saturable core transformers. 3,444,454, 5-13-69, Cl. 321-16.
Burke, Hubert K.; and Michon, Gerald J., to General Electric Company. Overspeed checking circuit. 3,450,943, 6-17-69, Cl. 317-5.
Burke, James F. Apparatus and method for treating gaseous products of combustion. 3,476,524, 11-4-69, Cl. 23-288.
Burke, James F.; and Rusk, Thomas L., to Sears, Roebuck and Co. Static inhibiting garment. 3,422,460, 1-21-69, Cl. 2-73.
Burke, John F.; Scudder, Kenneth R.; and Dunn, John L., to United States of America, Army. Pick-off for fluid angular rate sensor. 3,454,023, 7-8-69, Cl. 137-38.
Burke, John T.: *See—*
Chamot, Walter M.; and Burke, John T.,3,479,282.
Burke, Joseph R., to United States of America, National Aeronautics and Space Administration. Optical spin compensator. 3,428,812, 2-18-69, Cl. 250-203.
Burke, Lucille E.: *See—*
Eaves, Russell P.; and Burke, Lucille E.,3,445,941.
Burke, Oliver W., Jr. Vinylic filler pigments. 3,423,358, 1-21-69, Cl. 260-41.
Burke, Oliver W., Jr.; Stahly, Eldon E.; and Grace, Oscar M., said Grace and said Stahly assor. to said Burke. Water base unsaturated interpolymer coatings. 3,438,926, 4-15-69, Cl. 260-29.7
Burke, Shirley G. Pallet loading apparatus. 3,471,047, 10-7-69, Cl. 214-505.
Burke, Thomas L.: *See—*
Wightman, Dixon B.; and Burke, Thomas L.,3,483,960.
Burke, Walter E.; and Hinds, Lennox S., to Cities Service Oil Company. X-ray spectrography sample holder containing an adjustably mounted internal reference standard. 3,462,598, 8-19-69, Cl. 250-51.5
Burke, Wilbur A. Pneumatic powered seat erector for an invalid. 3,479,087, 11-18-69, Cl. 297-339.
Burke, William D.: *See—*
Le Blanc, John R.; and Burke, William D.,3,438,850.
Burke, William E.: *See—*
Cullen, Roy H.; Elliott, Charles H.; Aker, Jimmie R.; and Burke, William E.,3,446,297.
Burke, William J., to Roll-O-Sheets, Inc. Integral plastic roll dispenser. 3,425,606, 2-4-69, Cl. 225-77.
Burke, William J., to Roll-O-Sheets, Inc. Apparatus with heat conductive belt. 3,430,359, 3-4-69, Cl. 34-225.
Burke, William J., to Roll-O-Sheets, Inc. Film dispensing apparatus for wrapping glasses. 3,458,975, 8-5-69, Cl. 53-219.
Burke, William Roy, to National Gypsum Company. Metal stud. 3,482,369, 12-9-69, Cl. 52-669.
Burkett, Francis L., to Dow Chemical Company, The. Egg carton. 3,441,196, 4-29-69, Cl. 229-44.
Burkett, Francis L., to Dow Chemical Company, The. Method for forming crimped rim on a foam plastic object. 3,444,282, 5-13-69, Cl. 264-48.
Burkett, Francis L.; and Lee, Richard J., to Dow Chemical Company, The. Packaging apparatus. 3,464,085, 9-2-69, Cl. 18-5.
Burkett, Wilford B.; and Jackson, Robert V., to McCulloch Corporation. Voltage cut-off circuits. 3,436,639, 4-1-69, Cl. 320-27.
Burkett, Wilford B.; and Jackson, Robert V., to McCulloch Corporation. Voltage cut-off circuits. 3,454,860, 7-8-69, Cl. 320-28.
Burkett, Wilford B.: *See—*
Jackson, Robert V.; and Burkett, Wilford B.,3,426,213.
Burkhalter, Harvey Don; and Russell, Ernest J., to James, T. L., & Company, Inc. Tree harvesting method. 3,460,288, 8-12-69, Cl. 47-58.
Burkhalter, Harvey Donovan, to James, T. L., & Company, Inc. Tree harvesting apparatus and method. 3,460,594, 8-12-69, Cl. 144-3.
Burkhardt, Charles E.; and Ellis, Belvin B., to Westinghouse Electric Corporation. Magnetic core structures. 3,477,053, 11-4-69, Cl. 336-212.
Burkhardt, Edgar S.; and Torrence, James D., to Allis-Chalmers Manufacturing Company. Spider bearing assembly for gyratory crushers. 3,456,889, 7-22-69, Cl. 241-213.
Burkhardt, Gisbert; and Deibler, Anton, to Telefunken Patentverwertungsgesellschaft m.b.H. Ribbon feeding arrangement for N-digit code imprints. 3,481,446, 12-2-69, Cl. 197-151.
Burkhardt, Gottfried: *See—*
Metschnabl, Andreas; and Burkhardt, Gottfried,3,432,094.
Burkhardt, Louis C.: *See—*
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John,3,441,775.
Burkhardt, Max Eduard; and Zehnder, Alfred Ernst, to Concast A.G. Method of cooling cast members from a continuous casting operation. 3,468,362, 9-23-69, Cl. 164-89.
Burkhart, Harry Wade, Jr.: *See—*
Moskowitz, Saul; and Burkhart, Harry Wade, Jr.,3,446,970.
Burkhart, Joe H. Exhaust chamber. 3,434,280, 3-25-69, Cl. 60-32.
Burkholder, Harvey Z., to Favorite Nest Works, Inc. Dual egg conveyor cage construction. 3,485,214, 12-23-69, Cl. 119-48.
Burkholder, Joseph E.: *See—*
Vincent, Gerald G.; and Burkholder, Joseph E.,3,437,536.
Vincent, Gerald G.; and Burkholder, Joseph E.,3,468,753.
Burki, Rene: *See—*
Heimlicher, Paul; and Burki, Rene,3,470,817.
Burkinshaw, Kennith E.: *See—*
Barnard, Walter C.; and Burkinshaw, Kennith E.,3,458,241.
Burkland, Charles W., to Maytag Company, The. Waste disposer with centrifugally urged impeller. 3,454,240, 7-8-69, Cl. 241-46.08
Burks, Darnall P.; and Fabricius, John H., to Sprague Electric Company. Semiconductor mounting chip assembly. 3,471,753, 10-7-69, Cl. 317-234.
Burks, Howard L., 1/2 to Follrath, Jack K. Automatic beer coil cleaner. 3,441,034, 4-29-69, Cl. 134-58.
Burlant, William J., to Ford Motor Company. Radiation crosslinking of alpha-beta unsaturated paint binder resin. 3,437,514, 4-8-69, Cl. 117-93.31
Burlant, William J.; and Tsou, Ivan H., to Ford Motor Company. Radiation curable cyclic silicone-modified paint binders. 3,437,512, 4-8-69, Cl. 117-93.31
Burlant, William J.; and Tsou, Ivan H., to Ford Motor Company. Radiation curable acyclic silicone-modified paint binders. 3,437,513, 4-8-69, Cl. 117-93.31
Burleigh, David William, to Britax (London) Limited. Automatic locking mechanism for a safety belt or harness. 3,430,891, 3-4-69, Cl. 242-107.4
Burleigh, Dereck James Sutherland: *See—*
Webster, Francis George; and Burleigh, Dereck James Sutherland,3,445,512.
Burlem, William S: *See—*
Beaver, Bud K.; and Burlem, William S.,3,437,252.
Burleson, James C.; and Yates, William F., to Monsanto Company. Preparation of alkylene oxides in a silent electric discharge. 3,475,308, 10-28-69, Cl. 204-169.
Burlington Industries, Inc.: *See—*
Abe, Fujio; Cauthen, John V.; and McCoy, Daniel W., 3,456,310.
Ballard, Homer Lee, 3,464,459.
Barber, Richard P.; Barnhardt, Paul G.; and James, Steve C., 3,457,025.
Book, Bernard S.; and Salsburg, John E., 3,457,738.
Cauthen, John V.; Hinson, Claudell; Ledford, Garland M.; and Abe, Fujio, 3,459,235.
Cochran, John M., Jr., 3,475,625.
Fillmore, Leland A.; and Butler, Vaughn H., 3,449,932.
Fillmore, Leland A.; and Jenkins, Jack J., 3,477,256.
Jinnette, Allen J., 3,476,580.
Joy, Raymond D., 3,470,895.
Keasler, Bennett M., 3,425,109.
Leach, Jack, 3,460,599.
Levitch, Robert G., 3,424,639.
Luckenbach, Roy L., 3,431,656.
Macon, Jack F., 3,448,594.
Morrison, Elbert F., 3,460,338.
Norman, George E., Jr., 3,422,615.
Senturk, Necdet, 3,421,308.

Sharpe, Ned K., 3,444,707.
Simpson, Claude E.; and White, William Z., 3,435,856.
Smith, Vernon C.; and Hinton, Everett H., Jr., 3,434,875.
Stousland, Olav; and Nash, John L., 3,452,561.
Stringer, Myron Scott, 3,437,798.
Taylor, James L., 3,421,193.
Turner, John Dean, 3,473,948.
Upshur, Littleton, 3,437,797.
Upshur, Littleton; Joy, Raymond D.; and Cochran, John M., Jr., 3,437,799.

Burman & Sons Limited: *See—*
Ward, Benjamin, 3,475,984.

Burman, Joseph O.; and Desrosiers, Louis L., to Eastern Case Parts Inc.; mesne. Hinge attaching apparatus. 3,470,599, 10-7-69, Cl. 29-208.

Burmann, Fred; and Edie, John. Rail construction. 3,429,558, 2-25-69, Cl. 256-65.

Burmann, Fred: *See—*
Edie, John; and Burmann, Fred,3,429,600.

Burmeister, Harvey G., to United States of America, Army. Dual beam scanning apparatus having dual beams scanning dual photocells in opposite directions with respect to a centerline. 3,443,108, 5-6-69, Cl. 250-219.

Burn, Derek; Coombs, Robert Victor; and Petrow, Vladimir, to British Drug Houses Limited, The. Steroidal 4,6-dien-3-ones having C_6 substituents and process for preparing same. 3,442,891, 5-6-69, Cl. 260-239.55

Burn, Derek; and Petrow, Vladimir, to British Drug Houses Limited, The. D-homo aromatic steroids. 3,427,389, 2-11-69, Cl. 424-341.

Burn, James, & Co., Limited: *See—*
Liouville, Roger, 3,451,081.

Burn, La Nell M. Game apparatus comprising a board representing an imaginary planet. 3,430,961, 3-4-69, Cl. 273-134.

Burn, Patrick Marion; and Nevison, Ronald Arthur, to Australian Iron & Steel Pty. Limited. Simplified automatic charging system for blast furnaces. 3,477,529, 11-11-69, Cl. 177-50.

Burn, William A., Jr.: *See—*
Allman, William T., Jr.; Winger, James H.; and Burn, William A., Jr.,3,452,412.

Burnbaum, Jack. Combination motor and blower. 3,434,653, 3-25-69, Cl. 230-117.

Burndy Corporation: *See—*
Antler, Morton; and Krumbein, Simeon J., 3,484,209.
Bradley, James; Bradshaw, Edward F.; and Foster, Jack A., 3,426,988.
Dupre, Henry P., 3,456,232.
Gerhard, Sidney, 3,444,507.
Hus, Johannes, 3,479,444.
Matthysse, Irving F., 3,427,397.
Matthysse, Irving F.; Raila, Edward S.; Osborn, William G.; and Brautigam, John J., 3,427,549.
Neaderland, Adolph, 3,425,028.
Piorruneck, Heinz, 3,474,398.
Rabinowitz, Azriel Jay, 3,437,739.
Richter, Herman W., 3,462,542.

Burne, Frederick A., to Valyi, Emery I. Inflatable pallets. 3,440,976, 4-29-69, Cl. 108-51.

Burnel, Philippe. Apparatus for electrodeposition on a tubular fabric. 3,449,235, 6-10-69, Cl. 204-299.

Burnerd, F., & Co. Limited: *See—*
Brown, Patrick Rowden, 3,460,848.

Burness, Donald M.; Kennard, Kenneth C.; and Cossar, Bernard C., to Eastman Kodak Company. Bis-quaternary ammonium compounds. 3,453,281, 7-1-69, Cl. 260-293.4

Burnett & Rolfe Limited: *See—*
Ruddick, Maurice, 3,433,371.
Ruddick, Maurice, 3,454,018.
Ruddick, Maurice, 3,470,891.

Burnett, Arthur H.: *See—*
Lenk, James W.; Burnett, Arthur H.; and May, Kenneth D.,3,429,238.

Burnett, Edward N.: *See—*
Merrill, Ralph K., Jr.; Burnett, Edward N.; and Sparks, Thomas B.,3,439,824.

Burnett, Fredrick L., III: *See—*
Bufton, Richard G.; Abrams, Irving M.; and Burnett, Fredrick L., III,3,423,336.

Burnett, Henry J. Apparatus for heating fluid. 3,477,359, 11-11-69, Cl. 99-252.

Burnett, Herbert C., to Detroit Tap & Tool Co. Toolholder for thread rolling tools. 3,439,518, 4-22-69, Cl. 72-101.

Burnett, John S.: *See—*
Roinestad, Gerald C.; Rodman, John F., Jr.; and Burnett, John S.,3,439,795.

Burnett, Lonnie A.; Rave, Joseph A., Jr.; Read, Richard E.; and Neal, Norman D., to Cincinnati Milling Machine Co., The. Automatic control apparatus. 3,486,012, 12-23-69, Cl. 235-151.11

Burnett, Peter P. A., to Ford Motor Company. Coated fabrics having high stretch ratios. 3,440,133, 4-22-69, Cl. 161-89.

Burnett, Peter P. A. Linked fabric and method for making same. 3,479,244, 11-18-69, Cl. 161-58.

Burnett, Raymond S.: *See—*
Johnsen, Vernon L.; Matern, Eugene V.; and Burnett, Raymond S.,3,475,404.

Burnett, Reginald: *See—*
Simpson, Heyward V.; Burnett, Reginald; and Ellenburg, John E.,3,484,283.

Burnett, Richard T., to Bendix Corporation, The. Caliper disc brake and mounting means therefor. 3,460,651, 8-12-69, Cl. 188-73.

Burnett, Robert C., to United States Envelope Company. Envelope with inserted coupon. 3,460,743, 8-12-69, Cl. 229-70.

Burnett, Thomas Brian, to English Electric Company Limited, The. System for measuring high voltage line parameters utilizing optical transmission path. 3,467,858, 9-16-69, Cl. 324-52.

Burnett, Thomas Brian; and Ball, David Alan, to English Electric Company, Limited, The. Pulse generator circuit providing pulse repetition rate proportional to amplitude of alternating signal. 3,456,129, 7-15-69, Cl. 307-261.

Burnette, Earl L..: *See—*
Benbow, Eugene C.; and Burnette, Earl L..,3,421,084.

Burney, Charles F., to Sylvania Electric Products, Inc. Optical intrusion detection system using dual beam peripheral scanning. 3,476,947, 11-4-69, Cl. 250-224.

Burney, Harold W., to Metal Improvement Company. Peening apparatus. 3,426,563, 2-11-69, Cl. 72-53.

Burney, Harold W., to Metal Improvement Company. Internal penning apparatus. 3,485,073, 12-23-69, Cl. 72-53.

Burney, Harold W.; Bickel, Paul E.; and Koenecke, William J., to Metal Improvement Company. Shot classifying apparatus. 3,421,618, 1-14-69, Cl. 209-112.

Burney, Harold W.; Bissinger, Walter J.; and Landecker, Fred K., to Metal Improvement Company. Blade peening apparatus with indexing control. 3,423,976, 1-28-69, Cl. 72-53.

Burney, Ivan T., to Westinghouse Electric Corporation. Apparatus for pressurizing an air operated single cup coffee brewer. 3,478,673, 11-18-69, Cl. 99-302.

Burnham, Claude W. Safety hoist hook. 3,430,307, 3-4-69, Cl. 24-241.

Burnham, Gerald E., Sr. Apparatus and method for the degassification of drilling muds. 3,481,113, 12-2-69, Cl. 55-41.

Burnham, Robert J. Fiber-tip writing pen with replaceable cartridge. 3,446,563, 5-27-69, Cl. 401-199.

Burnham, Virgil A., to Maremont Corporation. Magnetic drafting element. 3,481,006, 12-2-69, Cl. 19-272.

Burnham, Virgil Allan; and Munroe, Richard Warren, to Maremont Corporation. Ribbon forming and handling mechanism. 3,432,890, 3-18-69, Cl. 19-150.

Burnham, William W., to OPTOmechanisms, Inc. Film holding vacuum means. 3,421,814, 1-14-69, Cl. 353-23.

Burnhill, Michael Seth, to American Caduceus Industries, Inc., mesne. Intrauterine device, inserting mechanism therefor and method of inserting same. 3,477,430, 11-11-69, Cl. 128-130.

Burnhill, Michael S., to I.C.D. Corporation. Intrauterine device. 3,438,369, 4-15-69, Cl. 128-130.

Burnier, Pierre Henri; and Wolfhugel, Andre Edouard, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Synchronous dynamo-electric machines. 3,471,726, 10-7-69, Cl. 310-54.

Burniski, Anthony J.; and Mitchell, Calvin, to Prince Gardner Company, Inc. French purse. 3,438,415, 4-15-69, Cl. 150-35.

Burns & Roe, Inc.: *See—*
Archer, John Cardiff, 3,471,599.

Burns, Albert L., Jr.: *See—*
Slator, Damon T.; and Burns, Albert L., Jr.,3,481,610.

Burns, Alvin G.; and Miller, Sheldon M. Inflatable packing for stuffing boxes. 3,471,156, 10-7-69, Cl. 277-3.

Burns, Barry, to Chubb's Australian Company Limited. Window. 3,473,262, 10-21-69, Cl. 49-150.

Burns, Benny Ray: *See—*
Griffith, William Alexander; Link, Paul Eugene; and Burns, Benny Ray,3,464,272.

Burns, Charles W. Device for testing the stretch of fabric samples. 3,444,728, 5-20-69, Cl. 73-97.

Burns, Edgar V., to Lowe's Inc. Cat scratching device. 3,482,548, 12-9-69, Cl. 119-29.

Burns, Edward Brantley,: *See—*
Stiegler, Theodore Donald; Janosik, James Phillip; and Burns, Edward Brantley,,3,460,776.

Burns, Erwin. Packer construction. 3,472,520, 10-14-69, Cl. 277-116.2

Burns, Fred P., and: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,427,454.

Burns, Fredrick B.; D'Ercoli, Giacinto C.; and Mlachnik, Albert A., to E Z Paintr Corporation. Paint applying tool. 3,473,183, 10-21-69, Cl. 15-144.

Burns, Fredrick B.; and Walsh, Vincent T., to E Z Paintr Corporation. Paint roller with coating thickness indicator and method for forming said indicator. 3,474,482, 10-28-69, Cl. 15-230.11

Burns, Harlan G.: *See—*
Ballard, Donald S.; Wilson, Charles R.; and Burns, Harlan G.,3,468,569.

Burns, Henry L., to Cavitron Corporation, mesne. Fluid inverter. 3,472,225, 10-14-69, Cl. 128-145.6
Burns, Howard M., Jr., to International Business Machines Corporation. Formation flight control system. 3,484,167, 12-16-69, Cl. 356-5.
Burns, James Ormston. Detachable pick-up unit for use in electronic stringed musical instruments. 3,475,543, 10-28-69, Cl. 84-1.15
Burns, Jerome G., to TRW Inc. Mold for encapsulating electrical components. 3,471,900, 10-14-69, Cl. 18-36.
Burns, Jesse L. Tool for removing arrows and arrowheads from trees. 3,441,251, 4-29-69, Cl. 254-131.
Burns, John A., to Western Electric Company, Incorporated. Method of producing electrical circuit assemblies having through connectors. 3,484,935, 12-23-69, Cl. 29-628.
Burns, John J. Sharpening machine. 3,455,187, 7-15-69, Cl. 76-40.
Burns, John J.; and Remus, Everett A., to Interlake Steel Corporation. Pallet rack. 3,422,962, 1-21-69, Cl. 211-176.
Burns, John R.: *See—*
Kenyon, Richard L.; and Burns, John R.,3,444,342.
Burns, John W., to Fairchild Hiller Corporation. V/STOL aircraft. 3,445,079, 5-20-69, Cl. 244-54.
Burns, Joseph R.: *See—*
Gibson, John James; and Burns, Joseph R.,3,449,594.
Burns, Joseph R.; and Gibson, John James, to RCA Corporation. Complementary field-effect transistor transmission gate. 3,457,435, 7-22-69, Cl. 307-251.
Burns, Joseph, to Fairchild Camera and Instrument Corporation. Electronic image-intensifying tube. 3,480,782, 11-25-69, Cl. 250-213.
Burns, Robert N.; and Wulf, Thornton E., to Western Conveyor Company. Beet topper. 3,439,480, 4-22-69, Cl. 56-121.4
Burns, Robert T., to Hercules Incorporated. Extrusion apparatus for thermoplastic materials. 3,458,902, 8-5-69, Cl. 18-12.
Burns, Robert: *See—*
Graf, Raymond J.; Burns, Robert; and Jahnke, Robert H.,3,448,645.
Burns, Russell W., to Merit Products, Inc. Method of fabricating a flap-type wheel. 3,468,642, 9-23-69, Cl. 51-297.
Burns, Simon Pierce: *See—*
Lichtenwalter, Myrl; and Burns, Simon Pierce,3,477,919.
Burns, Vernon J., to Lear Siegler, Inc. Acceleration vector control system. 3,455,172, 7-15-69, Cl. 74-5.34
Burns, Walter R., to Stanray Corporation. Canopy for airplane loading ramp. 3,479,677, 11-25-69, Cl. 14-71.
Burns, William C.; and Taylor, Ronald B., to Shell Oil Company. Method of forming an integral plastic rivet. 3,458,618, 7-29-69, Cl. 264-249.
Burns, William C.; and Vlig, Meye, to Shell Oil Company. Device for transporting fluids in plastic containers. 3,432,071, 3-11-69, Cl. 220-66.
Burnside, Gilbert L.: *See—*
Brewer, George E. F.; and Burnside, Gilbert L.,3,444,063.
Brewer, George E. F.; Burnside, Gilbert L.; Mohar, Arnulf F.; and Strosberg, Gordon G.,3,444,066.
Burnsweig, Joseph, Jr., to Hughes Aircraft Company. Precision wide-band frequency modulator for injection locking a tuneable RF source. 3,460,067, 8-5-69, Cl. 332-9.
Burnsweig, Joseph, Jr.; Fairbanks, Bert J.; and Rolstead, Albert A., to Hughes Aircraft Company. Wide bandwidth phase equalization filter network. 3,421,121, 1-7-69, Cl. 333-75.
Burnsweig, Joseph, Jr.; and O'Brien, Larry H., to Hughes Aircraft Company. Power splitting high level RF modulator. 3,435,342, 3-25-69, Cl. 325-126.
Buro Patent AG: *See—*
Wesener, Erich, 3,474,877.
Burpitt, Robert D., to Eastman Kodak Company. Inner salts of aminophosphonates and preparation thereof. 3,454,677, 7-8-69, Cl. 260-924.
Burpitt, Robert D.: *See—*
Martin, James C.; and Burpitt, Robert D.,3,424,763.
Burquez, Edward D., 1/2 to Murray, William R., III. Method of using an endless recording tape. 3,458,667, 7-29-69, Cl. 179-100.2
Burr, Donald William, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the. Machine tool control. 3,438,292, 4-15-69, Cl. 82-14.
Burr, Francis K.: *See—*
Panto, Joseph S.; and Burr, Francis K.,3,472,609.
Burr, George Sterling, to Instron Corporation. Movable crosshead loading device. 3,433,061, 3-18-69, Cl. 73-95.
Burr, Malcolm F., to Chase Brass and Copper Co., Inc. Method of producing a corrosion resistant alloy of Cu-Ni by liquid phase sintering. 3,441,409, 4-29-69, Cl. 75-208.
Burr, Richard, 50% to Mines de Potasse d'Alsace S.A., and 50% to Gesellschaft fur Kali-Interessen. Method for the treatment of ores containing slime- forming impurities. 3,485,356, 12-23-69, Cl. 209-3.
Burr, Robert Page, to Circuit Research Company. Method of manufacturing toroidally wound disc armatures. 3,431,638, 3-11-69, Cl. 29-598.
Burr, Robert Page, to Printed Motors, Inc. Armature without disc carrier. 3,450,909, 6-17-69, Cl. 310-58.
Burr, Robert Page, to Printed Motors, Inc. Copper-aluminum armatures. 3,450,918, 6-17-69, Cl. 310-268.
Burr, Robert P., to Photocircuits Corporation. Tape system with extended speed range. 3,482,229, 12-2-69, Cl. 340-174.1
Burr, Susannah: *See—*
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah,3,422,035.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah,3,474,074.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah,3,480,590.
Burr, Warren W., to Goodyear Tire & Rubber Company, The. Method for manufacturing a textured surfaced composite foamed article and the mold therefor. 3,487,134, 12-30-69, Cl. 264-45.
Burr-Ban Tool Service Company: *See—*
Toth, Joseph L., 3,435,729.
Burr-Brown Research Corporation: *See—*
McGraw, Donald R.; and Graeme, Jerald G., 3,440,554.
Burrell, Alfred A. Bearing. 3,482,890, 12-9-69, Cl. 308-15.
Burrell, Dennis Sampson: *See—*
Ashby, John Gardiner; and Burrell, Dennis Sampson,3,468,553.
Burrell, Donald V. Clips for use in anchoring outlet and switch boxes. 3,476,343, 11-4-69, Cl. 248-216.
Burrell, Harry D.: *See—*
Fowler, Loren M.; and Burrell, Harry D.,3,440,073.
Burri, Heinrich: *See—*
Engel, Walter; and Burri, Heinrich,3,446,147.
Burris, Donald D., to Certain-Teed Products Corporation. Building structure with the means between spaced panels. 3,423,891, 1-28-69, Cl. 52-241.
Burris, Howard T., to Con-Rad, division of U.S. Industries, Inc. Device for silencing gas flow streams. 3,480,105, 11-25-69, Cl. 181-47.
Burritt, Burnell O., to Universal Fluid Dynamics Company. Spring amplifying device. 3,441,263, 4-29-69, Cl. 267-1.
Burron Medical Products, Inc.: *See—*
Burke, George K., 3,469,581.
Burke, George K., 3,472,227.
Burke, George K., 3,473,646.
Burrough, Donald E.; and Barnes, Theodore Marion, to Deere & Company. Crop harvester and conditioner. 3,474,601, 10-28-69, Cl. 56-1.
Burrough, Donald E.; Fairbank, Raymond Harry; and Soteropulos, Gust, to Deere & Company. Hydraulic drive and controls for a self-propelled windrower. 3,469,381, 9-30-69, Cl. 56-209.
Burrough, Donald E.: *See—*
Fairbank, Raymond Harry; Leinhauser, Joe Paul; and Burrough, Donald E.,3,474,607.
Leinhauser, Joe Paul; Fairbank, Raymond Harry; Burrough, Donald E.; and Barnes, Theodore Marion,3,459,273.
Soteropulos, Gust; Burrough, Donald E.; and Fairbank, Raymond Harry,3,485,020.
Burrough, Robert E., to Dart Industries Inc. Classification of solid polymer pellets. 3,485,364, 12-23-69, Cl. 209-245.
Burroughs Corporation: *See—*
Ananiades, Constantine S.; and Krossa, Kenneth D., 3,482,170.
Arch, Andrew E., 3,443,273.
Bacon, James R., 3,453,555.
Bacon, James R., 3,478,357.
Bader, Clifford J.; Fussell, Richard L.; and Barnett, Arthur G., 3,443,213.
Barnes, George H., 3,421,017.
Barnes, George H., 3,435,426.
Barton, Robert S.; Creech, Bobby A.; Dent, Benjamin A.; Hauck, Erwin A.; and McKeeman, William M., 3,461,434.
Becker, Frederick C., 3,439,154.
Behr, Michael I.; and Hauck, Erwin A., 3,439,354.
Bennett, James Russell; Parker, William W.; and Schachner, Eugene, 3,437,998.
Bennett, James Russell; and Brookman, Ronald R., 3,482,213.
Boyer, James Thomas, 3,481,576.
Bradley, Roger W., 3,452,926.
Brown, Joseph Reese, Jr., 3,423,603.
Brozo, Donald E., 3,421,755.
Brozo, Donald E., 3,428,309.
Byrd, Theodore E., 3,460,156.
Chedaker, Joseph; Hoberg, George Gilbert; and Sands, Eugene Arthur, 3,479,659.
Chwasciak, Paul, 3,484,120.
Colvson, L. V., 3,444,394.
Corijnen, Guido C., 3,422,400.
Davis, Daniel H., Jr., 3,430,947.
Deo, Narsingh, 3,465,160.
Di Veto, Hilliard R., 3,424,391.
Di Veto, Hilliard R.; and Hough, Allan W., 3,424,392.
Doughty, Frederic C., 3,444,536.
Doughty, Frederic C., 3,446,983.
Dunn, Alexander; and Livingston, George Turner, 3,450,401.

Dunn, Alexander; Livingston, George Turner; and Corr, Albert J., 3,466,429.
Epstein, Herman; and Benn, Robert E., 3,441,437.
Fegley, Albert P., 3,473,039.
Fehnel, Richard B., 3,480,820.
Frederick, Harold M., 3,443,444.
Grabl, Sebastian, 3,473,106.
Hatton, Ronald W.; and Romberger, Russell R., 3,487,383.
Henderson, Eddie M.; and Stephen, Charles G., 3,446,140.
Hoffman, Paul R., 3,461,435.
Hoffman, Paul R., 3,465,959.
Hollowood, Calvin T., 3,441,420.
Holz, George E., 3,466,461.
Howell, Richard S., 3,438,053.
Hylan, John E., 3,465,605.
Hynes, Donald P.; and Knuth, Donald E., 3,454,929.
Jablonski, Richard J., 3,467,233.
Keiter, Irvin L.; Sichel, Leonard H., Jr.; Morgenson, Edgar O., Jr.; and Questa, Charles R., 3,461,432.
Kjos, Magne Jarle, 3,460,780.
Kondur, Nicholas, Jr., 3,472,352.
Krossa, Kenneth D.; and Behr, Michael I., 3,430,215.
Larsson, Ivar F., 3,431,640.
Lawrie, William N., Jr., 3,435,257.
Lemma, Robert H., 3,435,294.
Lockhart, James A., Jr., 3,449,740.
Looschen, Floyd W., 3,444,534.
Lucas, Rene F., 3,451,618.
Macon, Charles E.; Barton, Robert S.; Quantz, Paul A.; and Shimabukuro, George T., 3,487,375.
Maloney, Thomas C., 3,466,486.
Markgraf, Andreas G., 3,441,938.
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer, 3,426,329.
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer, 3,426,330.
Mathamel, Flavius A.; and Shukla, Narendra M., 3,439,117.
Mathamel, Flavius A., 3,451,053.
Mathamel, Flavius A., 3,482,118.
Matthews, Henry G., Jr., 3,469,086.
McAvoy, John A., 3,435,258.
McAvoy, John A., 3,458,717.
McEvoy, John C., 3,428,830.
Minnick, Robert C., 3,438,017.
Murray, William D.; and Tracy, Robert A., 3,483,537.
Myers, Edward F.; and Port, John R., 3,439,345.
Myers, Edward F.; and Port, John R., 3,466,612.
Nicol, Edward A., 3,438,560.
Nutting, Bruce W.; and Bozarth, Milton H., Jr., 3,471,789.
Ogle, James; and Askowith, Burton, 3,483,388.
Packard, Roger E.; and Knuth, Donald E., 3,422,405.
Packard, Roger E., 3,425,036.
Paige, Walter Griffin, 3,467,232.
Paige, Walter Griffin, 3,479,118.
Paige, Walter Griffin, 3,486,144.
Paige, Walter Griffin, 3,486,145.
Phillips, Robert L., 3,431,429.
Quinn, Hubert F., 3,479,655.
Rayfield, Harry F., 3,430,878.
Rayfield, Harry F.; and Kjos, Magne Jarle, 3,443,766.
Rech, Jakob, 3,438,411.
Rech, Jakob, 3,463,477.
Regalado, Albert, 3,438,014.
Rose, Thomas P.; and Hollowood, Calvin T., 3,435,127.
Savinese, Stanley J.; and Gerhart, Gilbert B., 3,439,218.
Schira, John J.; Sadler, William R.; and Dragon, Thomas J., 3,435,424.
Shimabukuro, George T., 3,426,323.
Shimabukuro, George T., 3,428,944.
Shimabukuro, George T., 3,454,750.
Shimabukuro, George T., 3,458,860.
Shukla, Narendra M., 3,446,984.
Sichel, Leonard H., Jr.; Hallman, Henry R.; and Marra, Thomas, 3,482,214.
Somlyody, Arpad, 3,453,418.
Sprude, Edgar O.; and Marshall, Walter H., 3,467,892.
Stansell, Alpheus F.; and Billawala, Shahbuddin A., 3,447,847.
Starr, David A., Jr., 3,449,753.
Starr, David A., Jr., 3,453,452.
Starr, David A., Jr., 3,470,563.
Starr, David A., Jr., 3,480,880.
Stein, Morris O., 3,474,421.
Stern, David M.; Mann, Abe; and Ogle, James A., 3,467,775.
Stern, David M., 3,473,137.
Stine, Jonathan E., 3,482,238.
Stowell, Philip A., 3,458,752.
Stowell, Philip, A., 3,480,963.
Templeton, William B., 3,456,772.
Tibbetts, Ernest L., 3,446,433.
Tibbetts, Ernest L., 3,464,532.
Tibbetts, Ernest L., 3,467,769.
Walsh, William J., 3,430,152.
Weber, Frank W., 3,479,606.
Wells, Frank W.; and Packard, Roger E., 3,427,593.
Westdale, Virgil W., 3,445,670.
Williams, Richard, 3,423,745.
Wisner, Daniel A., 3,438,054.
Yanishevsky, Gilbert; Miller, Bruce J.; and Savinese, Stanley J., 3,479,553.
Yanishevsky, Gilbert, 3,482,239.
Yanishevsky, Gilbert, 3,483,425.
Yii, Roland, 3,436,740.
Yii, Roland, 3,482,109.

Burroughs, Lester R., to United Aircraft Corporation. Cargo hoist energy absorption means. 3,482,262, 12-2-69, Cl. 416-146.
Burroughs, Robert K., to Le Blond, R. K., Machine Tool Co., The. Speed control system. 3,429,123, 2-25-69, Cl. 60-53.
Burroughs, Robert K.; and Wakefield, Timothy A., to Le Blond, R. K., Machine Tool Co., The. Tool changing apparatus. 3,443,310, 5-13-69, Cl. 29-568.
Burroughs Wellcome & Co. (U. S. A.) Inc.: *See*—
Barrett, Paul Anthony, 3,478,035.
Burroughs Wellcome & Co. (U.S.A.), Inc.: *See*—
Cameron, John, 3,449,209.
Coop, Frederick Charles; and Hodson, Harold Francis, 3,474,134.
Cresswell, Ronald M.; and Schnapper, Melvin, 3,487,083.
Gall, David, 3,429,966.
Hitchings, George H.; and Falco, Elvira A., 3,474,098.
Roth, Barbara, 3,470,183.
Smith, Geoffrey Howard; Thomas, Derek; and Hall, Andrew Harklestone, 3,468,870.
Burrow, William G.; and Smith, O Lewis, Jr. Hydraulic clamp. 3,424,050, 1-28-69, Cl. 85-77.
Burrows, Arthur Thomas Charles, to King, George W., Limited. Conveyor. 3,431,867, 3-11-69, Cl. 104-172.
Burrows, Charles F.: *See*—
Kramer, Irvin R.; and Burrows, Charles F.,3,440,150.
Burrows, Gregory John. Apparatus for cutting and delivering silage from stacks. 3,477,488, 11-11-69, Cl. 146-70.
Burrows, Lewis M., to Dresser Industries, Inc. Fluid pressure reducer. 3,434,500, 3-25-69, Cl. 138-42.
Burrows, Lewis M., to Dresser Industries, Inc. Ball valve. 3,458,172, 7-29-69, Cl. 251-174.
Burrows, Michael Eastoe: *See*—
Reid, Alexander Mailer; Parry, Richard John; and Burrows, Michael Eastoe,3,480,453.
Burrows, Milford D.; and Quedens, Phillipp J., to Stanley Works, The. Circular trim saw. 3,447,577, 6-3-69, Cl. 143-43.
Burrows, Philip R.: *See*—
Kavanaugh, Richard J.; and Burrows, Philip R.,3,456,178.
Burrows, Stanley, to Adamson Alliance Company Limited, The. Apparatus for removing ingots from moulds. 3,469,722, 9-30-69, Cl. 214-309.
Burrows, William Dickinson: *See*—
Cope, Arthur C.; and Burrows, William Dickinson,3,422,451.
Burrup, Melvin, to Monorail Car Wash, Inc., mesne. Automatic self-service car washing apparatus. 3,447,546, 6-3-69, Cl. 134-123.
Burrus, Bill S., to Combustion Engineering, Inc. Convection-recirculation heater. 3,451,378, 6-24-69, Cl. 122-235.
Burrus, Bill S., to Combustion Engineering, Inc. Subsea surface-commanded extensible-retractable apparatus. 3,455,114, 7-15-69, Cl. 61-46.
Burrus, Bill S., to Combustion Engineering, Inc. Connector. 3,458,218, 7-29-69, Cl. 285-38.
Burrus, Bill S., to Combustion Engineering, Inc. Subsea braking system. 3,465,531, 9-9-69, Cl. 61-46.
Burrus, Bill S., to Combustion Engineering, Inc. Surface to subsea guidance system. 3,477,236, 11-11-69, Cl. 61-46.5
Burrus, Thomas W.: *See*—
Zimmerman, Thomas Anthony; and Burrus, Thomas W.,3,436,475.
Bursian, Wolfgang: *See*—
Baxmann, Fritz; Bursian, Wolfgang; and Schumacher, Rudolf,3,470,113.
Bursik, Jan; Bursik, Ladislav; Kusiak, Ladislav; and Nierla, Miroslav, to Vitkovicke zelezarny Klementa Gottwalda narodni podnik. Steel-tape binding machine. 3,439,606, 4-22-69, Cl. 100-26.
Bursik, Ladislav: *See*—
Bursik, Jan; Bursik, Ladislav; Kusiak, Ladislav; and Nierla, Miroslav,3,439,606.
Bursk, Max H., to Wilson Lee Engineering Company. Method and apparatus for tensioning a moving strip. 3,459,351, 8-5-69, Cl. 226-39.
Burson, Bob O., to Phelon, R. E., Company, Inc. Inductively triggered breakerless ignition system with automatic spark advance. 3,465,739, 9-9-69, Cl. 123-149.
Burson, Bob Orman, to AMBAC Industries, Incorporated. Ignition system for internal combustion engines and the like. 3,464,397, 9-2-69, Cl. 123-148.
Burst, Francis J., to Hill-Rom Company, Inc. Hospital bed with friction drive. 3,436,769, 4-8-69, Cl. 5-67.

Burstall, William M., to Jackson, Byron, Inc. Elevator link and process of making the same. 3,461,666, 8-19-69, Cl. 59-35.
Burstein, Norman, 1/3 to Mennies, Bernard, and 1/3 to Kanoff, Bernard. Radiant-heat conveyor cooker. 3,448,678, 6-10-69, Cl. 99-386.
Burt, Cortland R., to Du Pont de Nemours, E. I., and Company. Rhodium and iridium salts as anti-kinking agent in direct positive silver halide emulsions. 3,445,235, 5-20-69, Cl. 96-95.
Burt, F. H., Company, Inc.: *See—*
Rosenburg, Charles W., Jr., 3,424,299.
Burt, F. N., Company, Inc.: *See—*
Byrne, Arthur J., 3,478,653.
Burt, Harold S., to Conveyor Systems Inc. Apparatus for discharging articles from a moving conveyor. 3,422,948, 1-21-69, Cl. 198-24.
Burt, James G., to Du Pont de Nemours, E. I., and Company. Azeotropic composition. 3,455,835, 7-15-69, Cl. 252-172.
Burt, Leslie R., to Hexatron, Inc. Air treatment. 3,486,308, 12-30-69, Cl. 55-270.
Burt, Owen H. Protector and resealer for paint cans and the like. 3,469,735, 9-30-69, Cl. 220-90.
Burt, Richard E. Dental aspirator. 3,453,735, 7-8-69, Cl. 32-33.
Burtis, Wilson A., to Dover Corporation. Dynamic metal seal. 3,455,562, 7-15-69, Cl. 277-58.
Burtner, David S. Gear drive systems. 3,420,120, 1-7-69, Cl. 74-711.
Burtness, Roger W.: *See—*
Studtmann, George Henry; and Burtness, Roger W.,3,467,904.
Burton, Charles A. Trailer hitch construction. 3,463,513, 8-26-69, Cl. 280-495.
Burton, Charles G., to Chisholm-Ryder Company, Inc. Grape trellis. 3,419,998, 1-7-69, Cl. 47-46.
Burton, Charles G., to Chisholm-Ryder Company Inc. Mobile cucumber harvester. 3,427,794, 2-18-69, Cl. 56-327.
Burton, Derek Rodney, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Cooling apparatus employing carbon dioxide. 3,475,918, 11-4-69, Cl. 62-165.
Burton, Derek Rodney; Judd, Bertie William; and Collier, Leslie, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the. Garments for controlling the temperature of the body. 3,425,486, 2-4-69, Cl. 165-46.
Burton, Duane C., to Ankortite Company, Inc., The, mesne. Concrete form. 3,429,241, 2-25-69, Cl. 94-17.
Burton, Harold; Pavey, John Anthony; Jayne-Williams, Derek James; and Hansen, William Frederick, to National Research Development Corporation. Apparatus for and method of sterilising bottles. 3,486,840, 12-30-69, Cl. 21-56.
Burton, Herbert O.; and McRae, Lorin P., to Wolf, William J., Jr. Bell Telephone Laboratories, Incorporated Buffer arrangement. 3,421,147, 1-7-69, Cl. 340-172.5
Burton, Herbert O.; and Watts, Robert N., to Bell Telephone Laboratories, Incorporated. Error control system. 3,475,723, 10-28-69, Cl. 340-146.1
Burton, Jean A.; Geppert, Robert J.; Farmer, James L.; and Mathis, Joseph J., to Hormel, Geo. A., & Company, mesne. Transfer device for a frank-o-matic system. 3,430,831, 3-4-69, Cl. 226-105.
Burton, John Thomas. Weatherproof cover for swimming pools and the like. 3,475,768, 11-4-69, Cl. 4-172.
Burton, Lawrence A.: *See—*
Mikolic, Charles R.; and Burton, Lawrence A.,3,435,389.
Burton, Lester W., to General Electric Company. Fuse monitoring circuit. 3,474,436, 10-21-69, Cl. 340-250.
Burton Parsons Chemicals, Inc.: *See—*
Richheimer, Ralph, 3,444,093.
Burton, Paul E.: *See—*
Cotrupe, Demetrio P.; Wellman, William E.; and Burton, Paul E.,3,446,850.
Wellman, William E.; Burton, Paul E.; and Diana, William D.,3,462,348.
Burton, Robert F. Soil conditioning method and apparatus. 3,444,626, 5-20-69, Cl. 34-15.
Burton, Robert G.: *See—*
Brinkerhoff, Joris M.; and Burton, Robert G.,3,486,025.
Burton, Robert M.; and Harland, Glen E., to General Motors Corporation. Miniature power circuit assembly. 3,476,981, 11-4-69, Cl. 317-100.
Burton, Samuel D., to Parker-Hannifin Corporation. Tube coupling. 3,425,719, 2-4-69, Cl. 285-382.2
Burton Silverplating Co.: *See—*
Ginder, Paul, 3,479,156.
Burton, Val, to Triangle Business Machines, Inc. Method and means for television presentation of motion picture film. 3,456,073, 7-15-69, Cl. 178-7.2
Burton's Seafood, Inc.:*See—*
Beazley, Edward H., 3,455,446.
Burwell, Anson Clark, Jr.: *See—*
Benson, Martin Rudolph; and Burwell, Anson Clark, Jr.,3,440,472.
Burwell, Garwood N., to Rails Company, The. Gas switch rod heater with flash ignition for railway switches. 3,484,601, 12-16-69, Cl. 246-428.
Burwen, Richard S., to Analog Devices, Inc. Input current compensation with temperature for differential transistor amplifier. 3,467,908, 9-16-69, Cl. 330-23.
Burwinkle, Vincent H.; and Elmore, Raymond D. Fuel mixer heaters for internal combustion engines. 3,459,162, 8-5-69, Cl. 123-122.
Bury, Allen J.: *See—*
Kolomayets, George; and Bury, Allen J.,3,420,533.
Burzenski, Ralph A. Spring type exercisers. 3,451,675, 6-24-69, Cl. 272-83.
Burzynski, Alfred J., to Owens-Illinois, Inc. Process for the application of a further curable organopolysiloxane to metal. 3,460,980, 8-12-69, Cl. 117-132.
Burzynski, Alfred J.; and Johnson, Carl A., to Owens-Illinois, Inc. Process of coating plastics with organopolysiloxanes and articles made thereby. 3,451,838, 6-24-69, Cl. 117-33.3
Burzynski, Alfred J.; and Martin, Robert E., to Owens-Illinois, Inc. Organosilane polymers and methods of preparation thereof. 3,449,293, 6-10-69, Cl. 260-46.5
Burzynski, Stanislaw: *See—*
Trylinski, Wladyslaw; Burzynski, Stanislaw; Pawlowski, Jerzy; and Rawski, Ryszard,3,485,446.
Busala, Alessandro; Stokes, Rembert R.; and Strommen, Lawrence A., to Bell Telephone Laboratories, Incorporated. Coin telephone control circuit. 3,435,146, 3-25-69, Cl. 179-6.3
Busby, Joseph B., to Celanese Corporation. Method and apparatus for quenching polymeric films. 3,427,686, 2-18-69, Cl. 18-15.
Buscemi, Vincent P., to Westinghouse Electric Corporation. Closed-cycle turbine power plant and distillation plant. 3,451,220, 6-24-69, Cl. 60-73.
Busch, Bennie T. Automatic stave equalizing machine. 3,452,788, 7-1-69, Cl. 143-36.
Busch, Edwin. Film projection apparatus. 3,475,087, 10-28-69, Cl. 352-104.
Busch, Georg Ludvig, to Grace, W. R., & Co. Recovery of copper values from copper ore. 3,438,767, 4-15-69, Cl. 75-117.
Busch, Gerhard. Card and etiquette punching machine. 3,479,914, 11-25-69, Cl. 83-448.
Busch, Hans-Jurgen: *See—*
Koch, Helmut; Heidemann, Hans Heinrich; Birk, Peter; Busch, Hans-Jurgen; and Bernhardt, Jost,3,441,964.
Busch, Norbert: *See—*
Mauvernay, Roland-Yves; and Busch, Norbert,3,453,366.
Busch, Richard E., to Admaster Corporation. Paper feed mechanism for listing- calculating machines. 3,429,523, 2-25-69, Cl. 242-67.3
Busch, Richard E., to Sperry Rand Corporation. Control mechanism for calculating machine. 3,464,623, 9-2-69, Cl. 235-130.
Busch, Siegfried; Germann, Reimar; and Kolitsch, Robert, to List, Hans. Amplifier with a high input resistance. 3,452,287, 6-24-69, Cl. 334-17.
Busch, Theodor: *See—*
Mobius, Hans-Eberhard; Muller, Fritz H.; and Busch, Theodor,3,449,163.
Busch, Willi A.: *See—*
Pearson, Howard; and Busch, Willi A.,3,444,544.
Busch, Willie A.: *See—*
Lindemann, Howard C.; and Busch, Willie A.,3,448,279.
Busch, Wolfram Ernst: *See—*
Zimmermann, Rolf; Busch, Wolfram Ernst; and Reiners, Fritz,3,470,094.
Buschbom, Floyd E., to Van Dale Corporation. Bunk feeder. 3,433,204, 3-18-69, Cl. 110-52.
Buschbom, Floyd E., to Van Dale Corporation. Method of making a slip ring unit. 3,438,123, 4-15-69, Cl. 29-597.
Buschbom, Floyd E., to Van Dale Corporation. Silo unloader drive. 3,460,688, 8-12-69, Cl. 214-17.
Buschbom, Floyd E., to Van Dale Corporation. Center fill pipe. 3,481,496, 12-2-69, Cl. 214-17.
Buschman, Jerome A.: *See—*
Roods, John F.; and Buschman, Jerome A.,3,484,917.
Buschmann, Horst: *See—*
Golde, Karl-Heinz; and Buschmann, Horst,3,460,725.
Buschmann, Horst; and Golde, Karl Heinz, to Schloemann Aktiengesellschaft. Apparatus for the transporting of the intermediate container of continuous casting machines. 3,446,269, 5-27-69, Cl. 164-281.
Buschmann, Karl: *See—*
Stockburger, Dieter; Sinn, Richard; Raichle, Ludwig; Buschmann, Karl; and Stege, Wolf-Dieter,3,449,238.
Buschow, Edward G.:.*See—*
Kemmerer, John L., Jr.; and Buschow, Edward G.,3,470,068.
Kemmerer, John L., Jr.; and Buschow, Edward G.,3,475,286.
Busck, Carl Gustaf C., to Telefonaktiebolaget L M Ericsson. Spring assembly fastening device. 3,449,701, 6-10-69, Cl. 335-197.
Busdiecker, Robert A., to Owens-Illinois, Inc. Solder glass compositions and method of sealing metal therewith. 3,454,408, 7-8-69, Cl. 106-47.
Busen, Karl M.: *See—*
Tsang, Wei K.; and Busen, Karl M.,3,443,173.
Busen, Karl; Lindmayer, Joseph; Schneider, William C.; and Tsang, Wei K., to Sprague Electric Company. L-H junction lateral transistor. 3,443,174, 5-6-69, Cl. 317-235.

Busenkell, Charles C.; and Mackie, William L., to United States of America, Navy. Plastic body and process for making the same. 3,474,474, 10-28-69, Cl. 9-8.
Busey, Harold M., to McDonnell Douglas Corporation, mesne. Water wave suppression device. 3,444,693, 5-20-69, Cl. 61-5.
Bush, Charles F., to Goodyear Tire & Rubber Company, The. Method of manufacture of a tire. 3,438,827, 4-15-69, Cl. 156-128.
Bush, Clarence E.: *See—*
Liddle, Stephen W.; and Bush, Clarence E.,3,443,767.
Bush, David L.; and Greb, Robert E., to General Motors Corporation. Method for coating inside surfaces of cavities. 3,483,097, 12-9-69, Cl. 204-26.
Bush, Earnest E.; and Williams, Earl J., to Precision Welder and Flexopress Corporation. Monorail carriage. 3,437,053, 4-8-69, Cl. 104-119.
Bush, George B., to United States of America, Navy. Solar attitude encoder. 3,440,426, 4-22-69, Cl. 250-209.
Bush, George F., to Ford Motor Company. Method for fastening metal parts to thermoplastic objects. 3,461,545, 8-19-69, Cl. 29-509.
Bush, George W., to Philadelphia Handle Company, Inc. Hideaway handle with I-shaped link. 3,431,586, 3-11-69, Cl. 16-115.
Bush, George W., to Philadelphia Handle Company, Inc. Flexible collapsible handle with concealed hardware. 3,447,193, 6-3-69, Cl. 16-115.
Bush, George W., to Philadelphia Handle Company, Inc. Flexible collapsible handle with concealed hardware. 3,447,194, 6-3-69, Cl. 16-115.
Bush, George W., to Philadelphia Handle Company, Inc. Hideway collapsible handle with spring means urging the handle to collapsed position. 3,447,195, 6-3-69, Cl. 16-115.
Bush, Grant H.; and Duke, Keith A., to International Business Machines Corporation. Automatic control of peripheral processors. 3,462,741, 8-19-69, Cl. 340-172.5
Bush, Harley Eugene, to National Lead Company. Stress embrittlement testing. 3,468,160, 9-23-69, Cl. 73-86.
Bush, Harold C. Jumping device with driven airlift blades. 3,467,375, 9-16-69, Cl. 272-57.
Bush, Harry D.; and Fassett, John R., to Collins Radio Company. Circuit for measuring sheet resistivity including an A.C. current source and average reading D.C. volt- meter switchably connected to pairs of a four probe array. 3,456,186, 7-15-69, Cl. 324-64.
Bush, Jack A.; and Shaull, Stanley D., to Microdot Inc., mesne. Mold die construction for seal rings. 3,475,790, 11-4-69, Cl. 18-36.
Bush, Richard W.: *See—*
Gregorian, Razmic S.; and Bush, Richard W.,3,477,924.
Bush, Richard W.; and Marrero, Tomas R., to Allied Chemical Corporation, mesne. Process for emulsifying high molecular weight polyethylene. 3,463,767, 8-26-69, Cl. 260-94.9
Bush, Vannevar. Hot gas engines method and apparatus. 3,457,722, 7-29-69, Cl. 60-24.
Bush, Walter M.: *See—*
Beavers, Leo E.; and Bush, Walter M.,3,445,228.
Bush, William A.: *See—*
Carel, Alfred B.; and Bush, William A.,3,427,788.
Busha, George F.; and Frees, Richard S., to Reading Company. Container and method. 3,456,828, 7-22-69, Cl. 220-1.
Bushell, Charles H. G.; and Hirsch, Horst E., to Cominco Ltd. Phosphate flotation process. 3,482,688, 12-9-69, Cl. 209-166.
Bushell, Charles Herbert George; and Hirsch, Horst Eberhard, to Cominco Ltd. Phosphate flotation process. 3,462,017, 8-19-69, Cl. 209-166.
Bushell, Charles Herbert George; Hirsch, Horst Eberhard; and Lauer, Randolph Mathias, to Cominco Ltd. Phosphate flotation process. 3,462,016, 8-19-69, Cl. 209-166.
Bushey, George M. Display device. 3,482,705, 12-9-69, Cl. 211-60.
Bushick, Ronald D., to Sun Oil Company. Decahydronaphthalene. 3,453,341, 7-1-69, Cl. 260-668.
Bushick, Ronald D., to Sun Oil Company. Method of making 9-methyloctahydroanthracene and 9-methyloctahydrophenanthrene. 3,453,342, 7-1-69, Cl. 260-868.
Bushin, Leonid Mikhailovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Bushman, Ronald C.: *See—*
Rickard, Donn J.; Holbrook, Franklin K.; Bushman, Ronald C.; Preston, Warren O.; and Gill, Thomas H.,3,448,682.
Bushmann, Klaus: *See—*
Buttner, Gerhard; Bushmann, Klaus; Papke, Wolfgang; and Philipp, Herbert,3,444,328.
Bushmeyer, Richard W., to Case, J. I., Company. Rotary compressor-type hay pelleter. 3,430,584, 3-4-69, Cl. 107-8.
Bushmeyer, Richard W., to Case, J. I., Company. Segmental rollers for core-forming machine. 3,467,002, 9-16-69, Cl. 100-89.
Bushnell, Calvin L.; and Latimer, Howard J., Jr., to United Aircraft Corporation. Fuel cell with containment for electrolyte expansion. 3,441,442, 4-29-69, Cl. 136-86.
Bushnell, Lester P., to Uniroyal, Inc. Breathable fabrics and methods of producing the same. 3,444,035, 5-13-69, Cl. 161-73.
Bushnell Machinery Co., The: *See—*
White, Ralph C.; and Christian, Robert N., 3,473,791.
Bushnell, Thomas W., to Clement, J. W., Company. Web slitting machine. 3,446,104, 5-27-69, Cl. 83-102.
Bushway, Kenneth C.; and Riselli, Nicholas V., to Goodrich, B. F., Company, The. Airbrake diaphragm. 3,435,734, 4-1-69, Cl. 92-103.
Busing, Bodo: *See—*
Wache, Wilhelm; and Busing, Bodo,3,459,201.
Busing, Gerhard: *See—*
Soder, Alfons; and Busing, Gerhard,3,478,041.
Buske, Gerd, to Buske Industries, Inc. Panel crimping tool. 3,421,356, 1-14-69, Cl. 72-387.
Buske, Gilbert E.: *See—*
Hunter, Thomas A.; Sherwood, Noble P.; Buske, Gilbert E.; and Guarino, Alexander J.,3,459,269.
Buske Industries, Inc.: *See—*
Buske, Gerd, 3,421,356.
Busker, Leroy H., to Beloit Corporation. Tension controller. 3,485,427, 12-23-69, Cl. 226-25.
Busker, Leroy H.; and Grenlund, Wesley E., to Beloit Corporation. Microwave moisture sensing system. 3,441,844, 4-29-69, Cl. 324-58.5
Busler, Willard Le Roy, to AMP Incorporated. Covering for a connecting member. 3,431,548, 3-4-69, Cl. 339-278.
Busler, Willard Le Roy, to AMP Incorporated. Bag clip applicator. 3,455,010, 7-15-69, Cl. 29-211.
Busler, William R.: *See—*
Hsieh, Henry L.; and Busler, William R.,3,450,683.
Busot, Jesus C., to Du Pont de Nemours, E. I., and Company. Process for producing polyethylene terephthalate. 3,487,049, 12-30-69, Cl. 260-75.
Busquets, Agustin A. Mixing and diverter water valve. 3,460,568, 8-12-69, Cl. 137-597.
Buss, A. G.: *See—*
Meister, Werner, 3,438,969.
Buss, Bejamin A., to Ametek, Inc. Angularly displaced guider for suction box spreader. 3,436,853, 4-8-69, Cl. 38-143.
Buss, David R., to Upjohn Company, The. Preparation of 9(11)-dehydro steroids from their 11β-hydroxy counterparts. 3,441,559, 4-29-69, Cl. 260-239.55
Buss, Waldeen C., to Chevron Research Company. Iron-containing reforming catalyst. 3,487,010, 12-30-69, Cl. 208-138.
Busschots, Armand August Florent, to Janssen Pharmaceutica, N.V. Treatment of deciduous fruit trees. 3,482,962, 12-9-69, Cl. 71-122.
Busse, Claus A.: *See—*
Grover, George M.; Busse, Claus A.; and Bohdansky, Josef,3,451,266.
Grover, George M.; Busse, Claus A.; and Caron, Rene Jean,3,441,752.
Busse, Ewald A. Apparatus for utilizing exhaust gases of an internal combustion engine, muffler and spark arrestor. 3,435,810, 4-1-69, Cl. 123-119.
Busse, Warren F., to Du Pont de Nemours, E. I., and Company. Blends of ionomer resins and elastomers. 3,454,676, 7-8-69, Cl. 260-897.
Busse, Warren F., to Du Pont de Nemours, E. I., and Company. Flame resistant 66 nylon and process thereof. 3,468,843, 9-23-69, Cl. 260-45.75
Busse, Warren Froemming; and Bruner, Walter Martin, to Du Pont de Nemours, E. I., and Company. Flame retardant polyoxymethylene composition. 3,485,793, 12-23-69, Cl. 260-45.75
Bussenberger, Max E.; Anderson, Dennis H.; and Gram, Martin M., to MTS Systems Corporation, mesne. Servo valve controlled hydraulic resonant machine. 3,442,120, 5-6-69, Cl. 73-92.
Bussienne, Christian: *See—*
Mary, Dominique; and Bussienne, Christian,3,458,060.
Bussink, Jam; and Brussen, Reinier Willem, to N.V. Polychemie Aku-G.E. Stabilizers for the polyphenylene ethers. 3,453,231, 7-1-69, Cl. 260-45.9
Bustamante, Cesar. Woven fabric. 3,451,441, 6-24-69, Cl. 139-384.
Bustamante, Roberto L. Unitary separable double socket assembly. 3,456,233, 7-15-69, Cl. 339-154.
Bustamante, Roberto L. Sleeve socket construction for receiving unitary separable light assembly. 3,462,593, 8-19-69, Cl. 240-11.2
Bustos, Epifanio G., of 50% to Jaramillo, Lily. Combination low tire pressure indicator and wheel balancing device. 3,421,144, 1-7-69, Cl. 340-58.
Buswell, Richard F., to United Aircraft Corporation. Hydrogen generator including desulfurization with diffused hydrogen feedback. 3,476,535, 11-4-69, Cl. 48-94.
Buswell, Richard F.; Sederquist, Richard A.; and Setzer, Herbert J., to United Aircraft Corporation. Method for generating hydrogen

from liquid hydrogen-containing feedstocks. 3,446,594, 5-27-69, Cl. 23u210.
Buswell, Richard F.; Setzer, Herbert J.; and Sederquist, Richard A., to United Aircraft Corporation. Hydrogen generator including desulfurization with low pressure hydrogen feedback. 3,476,534, 11-4-69, Cl. 48-94.
Buswell, Richard F.: *See—*
Sederquist, Richard A.; Buswell, Richard F.; and Setzer, Herbert J.,3,450,567.
Butaev, Filipp Ivanovich; Klimov, Nikolai Semenovich; Pertsev, Alexei Alexandrovich; Stepanov, Nikolai Pavlovich; Shemaev, Alexandr Mikhailovich; and Shkolin, Ilya Dmitrievich. High-voltage mercury-arc rectifier. 3,437,863, 4-8-69, Cl. 313-167.
Butcher, Alvin E., to Phillips Petroleum Company. Preworking film. 3,471,604, 10-7-69, Cl. 264-156.
Butcher, John Anthony Weeks; Pullum, Geoffrey George; and Willson, Michael John, to International Standard Electric Corporation. Speech immunity voice frequency signalling systems. 3,433,902, 3-18-69, Cl. 179-84.
Butcher, Lennie D. Method and apparatus for transporting grain bins. 3,421,644, 1-14-69, Cl. 214-500.
Butcher, Roger Anthony, to Aerosol Inventions & Development S.A. (A.I.D.). Containers for aerosol cans. 3,467,243, 9-16-69, Cl. 206-1.
Butcher, Walter W., to Hughes Aircraft Company. Liquid container pressurization by non- electrolytic dissociation of container contents. 3,427,808, 2-18-69, Cl. 60-204.
Butcher, William S., to Scientific Associates, Inc. Ski repairing. 3,457,129, 7-22-69, Cl. 156-94.
Butcosk, Richard A., to Mobil Oil Corporation. Grease compositions containing mixtures of ammonium dimethyldibenzyl bentonite and ammonium dimethyldioctadecyl bentonite clays as thickening agents. 3,449,248, 6-10-69, Cl. 252-21.
Butcosk, Richard A.: *See—*
Myers, Herbert; Olszewski, William F.; and Butcosk, Richard A.,3,429,814.
Butera, Gasper A., to Philco-Ford Corporation. Solder bonding. 3,486,223, 12-30-69, Cl. 29-626.
Butkevich, Vladimir Alexandrovich; Evteev, Dmitry Petrovich; Karpeka, Viktor Alexandrovich; Pravdin, Viktor Sergeevich; and Isjun, Alexandr Kononovich. Guiding device for ingots in secondary cooling zone in continuous casting plants. 3,438,425, 4-15-69, Cl. 164-150.
Butler, Arthur W.; Purdy, Francis W.; and Meyer, Charles J., to Standard Oil Company, The (Ohio). Flaking machine. 3,462,087, 8-19-69, Cl. 241-186.
Butler, Bertram F.: *See—*
Williams, Lee C.; and Butler, Bertram F.,3,447,177.
Butler, Bruce W., to Nilson, A. H., Machine Company, The. Adjustable feed block and check unit assemblies. 3,473,716, 10-21-69, Cl. 226-142.
Butler, Charles A.; and Carter, Dustin W., to North American Rockwell Corporation. Inflatable wing. 3,463,420, 8-26-69, Cl. 244-46.
Butler, Charles H. Underwater placer mining method and apparatus. 3,420,576, 1-7-69, Cl. 299-8.
Butler, David P.: *See—*
Brown, Neuberne H., Jr.; Butler, David P.; Carter, Jack M.; Ferik, Michael; and Ogle, Paul E.,3,427,997.
Butler, De Forest D.: *See—*
King, Franklyn D.; and Butler, De Forest D.,3,428,203.
Butler, Dennis Ralph, to Sankey, G. K. N., (Proprietary) Limited. Supporting structures. 3,483,998, 12-16-69, Cl. 211-177.
Butler, Ernest J.: *See—*
Sutliff, Robert C.; Burgo, Paul A.; Butler, Ernest J.; and Pierson, Charles W.,3,431,380.
Butler, Eugene B.; Cardis, Donald R.; and Schick, Harold P., to General Tire & Rubber Company, The. Method in laminating reinforced sheet. 3,446,686, 5-27-69, Cl. 156-224.
Butler, Florence P.: *See—*
Moore, Thomas R., Jr.; and Butler, Florence P.,3,458,542.
Butler, Frank W. Collet apparatus. 3,451,685, 6-24-69, Cl. 279-5.
Butler, George W.: *See—*
Anthony, Myron L., 3,443,411.
Anthony, Myron L., 3,452,695.
Anthony, Myron L., 3,452,897.
Butler, Gladys A.: *See—*
Anthony, Myron L., 3,443,411.
Anthony, Myron L., 3,452,695.
Butler, Harold B.: *See—*
Macy, Christian D.; and Butler, Harold B.,3,431,118.
Butler, Henry E. Cigarette dispenser. 3,451,533, 6-24-69, Cl. 206-38.
Butler, Henry James, to Dunlop Rubber Company Limited. Spot-type servo disc brake. 3,438,465, 4-15-69, Cl. 188-73.
Butler, James F., to International Harvester Company. Steering linkage for trailing agricultural implements. 3,463,507, 8-26-69, Cl. 280-103.
Butler, James G.; and Ashton, Robert, to Massey-Ferguson Industries Limited. Safety interlock mechanism for combine harvester. 3,442,069, 5-6-69, Cl. 56-20.
Butler, Jesse L. Electrical transmission line components. 3,440,573, 4-22-69, Cl. 333-31.
Butler, John F., to Jones & Laughlin Steel Corporation. Evaporation rate monitor. 3,457,784, 7-29-69, Cl. 73-190.
Butler, John Francis: *See—*
Gimigliano, Joseph P.; and Butler, John Francis,3,458,347.
Butler, John L. Roller skate wheel assembly. 3,442,523, 5-6-69, Cl. 280-11.28
Butler, John Lowell. Boil-in extension for kettles. 3,465,745, 9-9-69, Cl. 126-384.
Butler, John Mann: *See—*
Hathaway, Clayton E., Jr.; De Brunner, Ralph E.; and Butler, John Mann,3,435,004.
Butler, John Mann, to Monsanto Research Corporation. Isocyanurate elastomers based on fatty dimer diisocyanates and ionic polymerization catalysts. 3,459,712, 8-5-69, Cl. 260-77.5
Butler, John Mann; and Hathaway, Clayton E., Jr., to Monsanto Research Corporation. Protective coating. 3,477,869, 11-11-69, Cl. 117-72.
Nielsen, Morris L.; Hathaway, Clayton E., Jr.; and Butler, John Mann,3,455,731.
Butler, Kenneth James; and Merryweather, Robin Arnold, to Pilkington Brothers Limited. Linear-induction motors. 3,453,460, 7-1-69, Cl. 310-11.
Butler, Lee Dennis, to Sperry Rand Corporation. Bale wagon. 3,430,783, 3-4-69, Cl. 214-6.
Butler, Lee Dennis, to Sperry Rand Corporation. Bale wagon control. 3,481,497, 12-2-69, Cl. 214-508.
Butler Manufacturing Company: *See—*
Blom, Kenneth M.; and Ramirez, Carmen L., 3,438,300.
Brock, James A.; Hughes, Robert H.; and Downs, Edgar S., 3,462,133.
Colson, Thomas C., 3,438,663.
Fulkerson, Robert D., 3,474,655.
Butler, Michael Brian Neilson: *See—*
Sandbank, Carl Peter; and Butler, Michael Brian Neilson,3,447,044.
Butler, Robert. Vehicle suspension system. 3,464,716, 9-2-69, Cl. 280-124.
Butler, Roger David: *See—*
Wallace, John Frederick; Butler, Roger David; and Adkin, Lancelot Alan,3,461,702.
Butler, Roger M.: *See—*
O'Donnell, Joseph P.; Butler, Roger M.; and Simpson, Leander Burton,3,462,476.
Butler, Stedman M. Oil filter cleaner. 3,448,746, 6-10-69, Cl. 134-102.
Butler, Vaughn H.: *See—*
Fillmore, Leland A.; and Butler, Vaughn H.,3,449,932.
Butrico, Frank A., to Federal Pacific Electric Company. Multisection power factor correction capacitor. 3,441,816, 4-29-69, Cl. 317-243.
Butsch, Alfred G. Wall mounting for electric appliances. 3,482,893, 12-9-69, Cl. 312-245.
Butsch, Paul V.: *See—*
Steel, Robert N.; Butsch, Paul V.; and Nojiri, Richard T.,3,462,326.
Butt, Anthony John: *See—*
Pay, Donald Alexander; Butt, Anthony John; and Deveson, John Harwood,3,429,994.
Butt, Faye E.: *See—*
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan,3,476,546.
Butt, Ronald John: *See—*
Clark, Charles Alfred; Butt, Ronald John; and Mason, John Jefferson,3,446,680.
Butt, Walter Dion, to Lever Brothers Company. Microbiological process. 3,455,785, 7-15-69, Cl. 195-30.
Butte Knitting Mills: *See—*
Mircoff, Alex, 3,425,374.
Willis, David M., 3,425,110.
Willis, David M., 3,433,432.
Butte, Walter A., Jr., to Sun Oil Company. Side chain alkylation of aromatic tertiary amines. 3,474,143, 10-21-69, Cl. 260-570.8
Butte, Walter A., Jr.: *See—*
Griffin, William P., Jr.; and Butte, Walter A., Jr.,3,485,892.
Butterfield, Geoffrey John, to Lucas, Joseph, (Industries) Limited. Warning lamp assembly having means to test bulb. 3,484,783, 12-16-69, Cl. 340-366.
Butters, Lamont Chester; and Horne, George Burchard, to Watts Regulator Co. Tamper proof coupling. 3,459,443, 8-5-69, Cl. 285-39.
Butterworth, Lyle J., to Dawson and Co., Inc. Brushes for an automatic egg cleaning machine. 3,449,779, 6-17-69, Cl. 15-3.16
Butterworth, Lyle J.; Hiegel, Larry D.; and Scheffer, Donald G., to Dawson & Co., Inc. Automatic machine for candling, cleaning, sanitizing and grading of eggs. 3,447,176, 6-3-69, Cl. 15-3.11

Butterworth System, Inc.: *See—*
Orem, James W.; Lione, Leonard V.; and Turco, Daniel T., 3,472,451.

Buttery, Roger A., to Quickfit & Quartz Limited. Seal assemblies. 3,446,152, 5-27-69, Cl. 103-111.

Buttery, Roger A.; and Turnbull, Thomas, to Quickfit & Quartz Limited. Tube end fitting. 3,420,274, 1-7-69, Cl. 138-90.

Buttner, Gerhard; Bushmann, Klaus; Papke, Wolfgang; and Philipp, Herbert, to Siemens Aktiengesellschaft. Coupler circuit having voltage response switching means at cross-points thereof for telephone exchange coupling field. 3,444,328, 5-13-69, Cl. 179-18.

Button, Charles T., to Texas Instruments, Incorporated. D.C. series motor with laminated field structure of diverse materials. 3,471,730, 10-7-69, Cl. 310-177.

Button, George F.; and Childress, David L., to Dow Chemical Company, The. Process for preparing bisaminoalkyl sulfides. 3,463,816, 8-26-69, Cl. 260-583.

Button, Robert Leslie. Tomato harvester. 3,437,151, 4-8-69, Cl. 171-17.

Button, Roger E., to Bausch & Lomb, Incorporated. Linearized radiation sensitive transducer apparatus. 3,487,225, 12-30-69, Cl. 250-220.

Buttram, Robert J., 1/2 to Hertwig, Paul O. Back hoe. 3,443,705, 5-13-69, Cl. 214-138.

Buttriss, Albert J., to Tinnerman Products, Inc. Fastener device and mounting assembly. 3,459,396, 8-5-69, Cl. 248-27.

Butts, Donald A., to General Motors Corporation. Inertia operated switch. 3,436,499, 4-1-69, Cl. 200-61.48

Butts, Donald A., to General Motors Corporation. Cylinder lock actuator. 3,442,102, 5-6-69, Cl. 70-1.5

Butts, Ernest O.: *See—*
Hakka, Leo E., 3,470,340.

Butts, Frank G.: *See—*
Telford, Carlyle O.; and Butts, Frank G.,3,485,176.

Butts, Orville R., to G-L Industries. Light dimmer socket adapter. 3,450,941, 6-17-69, Cl. 315-194.

Butts, Philip G., to Olin Mathieson Chemical Corporation. Gas generating composition containing melamine. 3,473,981, 10-21-69, Cl. 149-19.

Butts, Theodore A.: *See—*
Kramp, Joseph J.; and Butts, Theodore A.,3,450,481.

Butts, William R.: *See—*
Levinstein, Moses A.; and Butts, William R.,3,466,166.

Buttyan, Joseph: *See—*
Cochardt, Alexander W.; and Buttyan, Joseph,3,452,121.

Butvinik, David: *See—*
Heyman, Louis; Netkin, Bernard; and Butvinik, David,3,467,107.

Butz, Carl C.: *See—*
Harrington, Herbert A.; Dickey, John W.; Allen, William M.; Butz, Carl C.; and Campbell, Clarence E.,3,485,230.

Butz, Heinz. Wet separator for cleaning dust-laden gases. 3,425,191, 2-4-69, Cl. 55-223.

Butz, Josef: *See—*
Graff, Roderich; Reichl, Karl Johann; Butz, Josef; and Pausch, Karl,3,477,894.

Butz, Tom E., to Fanner Manufacturing Company, The. Dead end. 3,455,099, 7-15-69, Cl. 57-145.

Butzke, Fritz: *See—*
Bester, Werner; Butzke, Fritz; Hennig, Fritz; Voelcker, Sven; Reier, Richard; and Rekewitz, Rudolf,3,450,836.

Butzke, Fritz; Voelcker, Sven; and Nitschke, Bruno, to Siemens Aktiengesellschaft. Teleprinter apparatus employing techniques for interrupting message flow during carriage return. 3,449,515, 6-10-69, Cl. 178-17.5

Buu-Hoi, Nguyen P.; Lambelin, Georges; Lepoivre, Constan; Gillet, Claude; and Thiriaux, Jacques, to Madan AD. Substituted arylacetohydroxamic acids. 3,479,396, 11-18-69, Cl. 260-500.5

Buuck, Frederick A.; Harden, Phillip L.; and Thomas, Samuel M., Jr., to Bowmar Instrument Corporation. Stator assembly for electromagnetic indicating apparatus. 3,478,349, 11-11-69, Cl. 340-347.

Buus, Ole. Method of manufacturing a constriction-type pipette. 3,424,838, 1-28-69, Cl. 264-320.

Buxton, Albert C.: *See—*
Altekruse, John L.; Buxton, Albert C.; Hancock, Robert O.; and Miller, James H.,3,421,716.

Buxton, Incorporated: *See—*
Machler, Ronald A., 3,454,069.

Buxton, James E.; Emmick, Charles R.; and Mortensen, Harold R., to Bendix Corporation, The. Starter drive with selectively-releasable friction advance mechanism. 3,465,353, 9-2-69, Cl. 74-7.

Buxton, Thomas S.; and Shelton, Jack L., to Pan American Petroleum Corporation. Method for recovering viscous oil by steam drive. 3,459,265, 8-5-69, Cl. 166-2.

Buxton, Winslow H., Jr., to Western Kraft Corporation. Process for chemical recovery and odor abatement of kraft liquor. 3,431,165, 3-4-69, Cl. 162-30.

Buyalos, Edward J., to Allied Chemical Corporation. Production of propylene oxide. 3,448,124, 6-3-69, Cl. 260-348.5

Buyer, Karl, to Heilmann & Littman Bau-Aktiengesellschaft, Messrs. Fixed anchorage for concrete prestressing method with subsequent attachment. 3,425,177, 2-4-69, Cl. 52-230.

Buyers, Archie G.; and Mohr, Augustus J., Jr., to Hughes Aircraft Company. Ceramic-metal seal. 3,468,647, 9-23-69, Cl. 65-59.

Buyken, Frank E. Waler bracket. 3,426,992, 2-11-69, Cl. 248-205.

Buyken, Frank E. Waler bracket. 3,462,106, 8-19-69, Cl. 248-205.

Buyken, Frank E. Waler bracket. 3,462,107, 8-19-69, Cl. 248-205.

Buyken, Frank E. Waler bracket. 3,462,108, 8-19-69, Cl. 248-205.

Buynak, George R.; and Paxton, Roy K., to Goodyear Aerospace Corporation. Passive homing guidance system. 3,459,392, 8-5-69, Cl. 244-3.17

Buyze, Edwin K., to Budd Company, The. Method of fabricating a brake disk. 3,486,218, 12-30-69, Cl. 29-472.3

Buzano, Michel, to Rhone-Poulenc S.A. Process for the manufacture of a compacted yarn. 3,448,501, 6-10-69, Cl. 28-72.

Buzas, August J.; and Schenck, Remsen T. E., to Keystone Chemurgic Corporation. Process for making aluminum alkoxides and separation of impurities therefrom. 3,446,828, 5-27-69, Cl. 260-448.

Buzbee, Lloyd R.; and Ecke, George G., to Koppers Company, Inc. Preparation of 2,3-dichloro-1,4- naphthoquinone from naphthalene. 3,433,812, 3-18-69, Cl. 260-396.

Buzby, George C., Jr.; and Smith, Herchel, to American Home Products Corporation. Novel 7-thioacyl-17-spirolactone gonanes. 3,452,008, 6-24-69, Cl. 260-239.57

Buzby, George C., Jr.; and Smith, Herchel, to American Home Products Corporation. Synthesis of 10-isogonenes and derivatives thereof. 3,470,215, 9-30-69, Cl. 260-397.3

Buzby, George C., Jr.; and Smith, Herchel, to American Home Products Corporation. Water soluble aldosterone like agents. 3,474,115, 10-21-69, Cl. 260-397.1

Buzby, George C., Jr.; and Smith, Herchel. American Home Products Corporation 5,13-Dialkylgon-3-one compounds. 3,474,116, 10-21-69, Cl. 260-397.4

Buzby, George C., Jr.; Smith, Robert C.; and Smith, Herchel, to American Home Products Corporation. Process for the preparation of 17-substituted-13- alkylgona-1,3,5(10),6,8-pentaenes. 3,479,376, 11-18-69, Cl. 260-397.45

Buzby, George C., Jr.: *See—*
Stein, Reinhardt P.; Buzby, George C., Jr.; and Smith, Herchel,3,436,411.
Stein, Reinhardt P.; Buzby, George C., Jr.; Smith, Robert C., Jr.; and Smith, Herchel,3,465,011.

Buzick, John W.: *See—*
Tibbs, Oscar F., 3,441,690.

Buzza, Edmund Earl, to Beckman Instruments, Inc. Flame photometer. 3,428,401, 2-18-69, Cl. 356-187.

Buzza, Edmund E., to Beckman Instruments, Inc. Flowmeter. 3,425,278, 2-4-69, Cl. 73-204.

Buzza, Edmund E.: *See—*
Watanabe, Hideo; and Buzza, Edmund E.,3,444,067.
Watanabe, Hideo; and Buzza, Edmund E.,3,455,793.

Buzzards Corporation, The: *See—*
Ayer, William H., 3,469,444.
Francis, Samuel A., 3,483,749.
Hottel, Hoyt Clarke, Jr., 3,479,580.
Lyons, John, 3,424,389.

Buzzell, Harold O.; and Rizzotto, Robert S., to Polaroid Corporation. Process for laminating halogen or hydrogen halide treated polyvinyl acetal to glass. 3,455,754, 7-15-69, Cl. 156-99.

Buzzelli, Edward S.: *See—*
Rightmire, Robert A.; and Buzzelli, Edward S.,3,462,312.
Rightmire, Robert A.; and Buzzelli, Edward S.,3,462,313.

Buzzelli, Edward S., to Standard Oil Company, The (Ohio). Aluminum anode electrical energy storage device. 3,445,288, 5-20-69, Cl. 136-83.

Buzzelli, Edward S., to Standard Oil Company, The (Ohio). Low temperature battery. 3,484,296, 12-16-69, Cl. 136-100.
Sprague, James W.; and Buzzelli, Edward S.,3,485,674.

Buzzelli, Frank D. Method for retaining hair. 3,464,424, 9-2-69, Cl. 132-7.

B/W Controller Corporation: *See—*
Akin, Welling T.; and Bongort, Edgar A., 3,475,719.

BWG Bergwetk-und Walzwerk-Maschinenbau GmbH: *See—*
Noe, Oskar; and Mohrien, Walter, 3,457,617.

Byam, Erwin B.; and McMurray, John C., to Textron Inc. Cyclic positioning mechanism. 3,440,860, 4-29-69, Cl. 72-427.

Byam, Erwin B.; and Pizzuto, Joseph, to Textron, Inc. Punch shifting apparatus for heading machines. 3,470,727, 10-7-69, Cl. 72-403.

Byars, Gerald A.: *See—*
Carr, Jesse M., Jr.; Byars, Gerald A.; and De Feo, Richard J.,3,480,662.
De Feo, Richard Joseph; and Byars, Gerald Albert,3,484,190.
Hunter, Edward Allen; Knarr, Warren Alfred; and Byars, Gerald Albert,3,423,323.

Byatt, Dennis William George, to Marconi Company Limited, The. Electroluminescent, photoemissive, charge storing memory matrix. 3,487,378, 12-30-69, Cl. 340-173.

Byatt, Dennis William George; and Starks-Field, Alfred Benjamin, to Marconi Company Limited, The. Radar system utilizing a target display resembling a three-dimensional relief picture. 3,456,258, 7-15-69, Cl. 343-7.9

Bybee, Roger W.; and Phyfe, Lawson M., to Aztec Industries, Inc., mesne. Synchronous firing electric heating system. 3,474,228, 10-21-69, Cl. 219-501.

Bydal, Bruce Alfred, to Du Pont de Nemours, E. I., and Company. Flow inverter. 3,470,912, 10-7-69, Cl. 138-37.

Bydalek, Floyd J.: *See—*
Lukas, Gus J.; and Bydalek, Floyd J.,3,455,163.
Lukas, Gus J.; and Bydalek, Floyd J.,3,479,874.

Bye-Jorgensen, Jorgen S.; and Larsen, Gunnar H., to Kruger I., A/S. Process and plant for biological purification of waste water and sewage. 3,468,795, 9-23-69, Cl. 210-7.

Byer, Edward L., to International Telephone and Telegraph Corporation. Television system with hard copy printer. 3,422,218, 1-14-69, Cl. 178-6.6

Byers, Donald J.; Leekley, Robert M.; and Murray, Margaret H., to Time, Incorporated. Photosensitive polycarbonamides. 3,474,071, 10-21-69, Cl. 260-47.

Byers, Edward Victor, to Zephon Limited. Roller supporting means for duplicators. 3,424,083, 1-28-69, Cl. 101-132.

Byers, J. Harold. Method and composition for reducing slippage and skidding of rubber surfaces on ice. 3,475,205, 10-28-69, Cl. 117-139.

Byers, John R., to United States of America, Army. Depthometer. 3,430,490, 3-4-69, Cl. 73-300.

Byers, Robert C. Grinding and mixing apparatus and method. 3,464,636, 9-2-69, Cl. 241-21.

Bygdnes, Perry Ala n. Tape transport system with stationary heads mounted within a rotating structure. 3,443,039, 5-6-69, Cl.

Bykov, Alexandr Evseevich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.

Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich. Alternately operated walking bars device for extracting an ingot from a curved mold. 3,480,074, 11-25-69, Cl. 164-282.

Byland, Henry L.; and Bates, Bradford, to Advance Data Systems Corporation. Turnstile mechanism. 3,445,962, 5-27-69, Cl. 49-47.

Byland, Henry Lowell, to Litton Business Systems, Inc., mesne. Copying apparatus. 3,484,164, 12-16-69, Cl. 355-8.

Bylander, Ernest G., to Texas Instruments, Incorporated. Interconnection system for complex semiconductor arrays. 3,474,297, 10-21-69, Cl. 317-101.

Byllard, E. D., Company: *See—*
Raschke, Herbert A., 3,480,319.

Bylsma, Harold R., to Dow Corning Corporation. Primer for room temperature vulcanizing polyurethanes. 3,453,136, 7-1-69, Cl. 117-72.

Bynum, Edward B., Jr.: *See—*
McDonald, William J.; Bynum, Edward B., Jr.; and Cronquist, William E.,3,425,515.

Bynum, Jerry M., to Hi-Shear Corporation. Fluid sealed joint. 3,482,864, 12-9-69, Cl. 287-189.36

Bynum, Stanley A., to General Electrodynamics Corporation. Making photoconductive target of selenium and sulphur. 3,450,564, 6-17-69, Cl. 117-201.

Byrd, Carl: *See—*
Mueller, Martin; and Byrd, Carl,3,472,403.

Byrd Industries, Inc.: *See—*
Krieger, George R., 3,467,798.

Byrd, Joseph L.; and Allen, William M., to Brunswick Corporation, mesne. Control system. 3,466,041, 9-9-69, Cl. 273-49.

Byrd, Theodore E., to Motorola, Inc. Semiconductor controlled rectifier device. 3,434,022, 3-18-69, Cl. 317-235.

Byrd, Theodore E., to Burroughs Corporation. Electrostatic print head and printing station. 3,460,156, 8-5-69, Cl. 346-74.

Byrd, Wendell M., Jr.; and Camacho, Vasco G., to Mobil Oil Corporation. Monomeric polyesters of polyhydroxy compounds and process for preparing same. 3,459,733, 8-5-69, Cl. 260-210.

Byrd, Wendell M., Jr.: *See—*
Camacho, Vasco G.; Anderson, James J.; and Byrd, Wendell M., Jr.,3,465,068.

Byrens, David W.: *See—*
Cannon, Ernest W.; and Byrens, David W.,3,463,218.

Byrne, Arthur J., to Burt, F. N., Company, Inc. Carton forming apparatus and method. 3,478,653, 11-18-69, Cl. 93-51.

Byrne, Joseph J.; and Wyman, John E., to Monsanto Research Corporation. Ablation methods and materials. 3,472,812, 10-14-69, Cl. 260-41.5

Byrnes, Edward G., to Polaroid Corporation. Glare-reducing rear-view mirror device. 3,473,867, 10-21-69, Cl. 350-279.

Byrnes, James H.; and Cuny, Florian B., to Westoak Machine Corporation. Wheel grinder. 3,473,270, 10-21-69, Cl. 51-147.

Byrnes, Joseph E.; and Moffatt, William G., to General Electric Company. Entry port member for dip crucible apparatus. 3,424,130, 1-28-69, Cl. 118-405.

Byrnes, Peter A., Jr.; and Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Method for sputter etching using a high frequency negative pulse train. 3,479,269, 11-18-69, Cl. 204-192.

Byron, William J., to United States of America, Atomic Energy Commission. Device for measuring the temperature of a body utilizing the infrared energy radiation therefrom. 3,474,671, 10-28-69, Cl. 73-355.

Byrt, Graham Archie Bruce, to Masson Scott Thrissell Engineering Limited. Disc brakes and torque varying means therefor. 3,465,981, 9-9-69, Cl. 242-75.43

Bysarovich, Joseph C., to Dresser Industries, Inc. Method and apparatus for indicating and controlling the torque on an internal combustion engine. 3,444,730, 5-20-69, Cl. 73-115.

Bystricky, Joseph C.: *See—*
Brewer, Russell C.; Bystricky, Joseph C.; and Miller, Lee T.,3,481,361.

Bystricky, Karl: *See—*
Vockenhuber, Karl; and Bystricky, Karl,3,433,559.

Bystrov, Jury Alexandrovich: *See—*
Isserlin, Evgeny Borisovich; and Bystrov, Jury Alexandrovich,3,453,475.

Byttebier, Carlos, to Sika Holding A.G., mesne. Machine for cleaning a joint in a work of concrete. 3,432,969, 3-18-69, Cl. 51-8.

C & C Button & Trimming Co., Inc.: *See—*
Chalfin, Bernard D.; and Peterson, Richard J., 3,442,163.

C. & W. Sewing Machine Co.: *See—*
Vrana, Carlos; and Passaro, Frank, 3,463,104.

Cabantous, Marcel Amans; and Scheiff, Gilbert, to Compagnie Industrielle de Metrologie Trophy. Dating mechanism. 3,452,535, 7-1-69, Cl. 58-4.

Cabasso, Victor Jack, to American Cyanamid Company. Tissue culture hog cholera vaccine. 3,422,188, 1-14-69, Cl. 424-89.

Cabasso, Victor Jack, to American Cyanamid Company. Measles vaccine attenuated through avian chorio- allantoic membrane. 3,468,758, 9-23-69, Cl. 195-1.3

Cabasso, Victor Jack; Stebbins, Max Raymond; and Frazza, Everett Joseph, to American Cyanamid Company. Non-staining phenylenedimethylene-bis (triphenylphosphonium) salt-inactivated hog cholera virus vaccine. 3,455,782, 7-15-69, Cl. 195-1.4

Cabassut, Andre Emile Roger: *See—*
Duthion, Louis; Hafenscher, Michel Serge Daniel; and Cabassut, Andre Emile Roger,3,436,020.

Cabbage, John T.: *See—*
Merryfield, Gorge E.; and Cabbage, John T.,3,450,783.

Cabbage, John T., to Phillips Petroleum Company. Hydrocarbon conversion process. 3,420,907, 1-7-69, Cl. 260-667.

Cabbage, John T.; Blaker, David G.; and Berger, Richard F., to Phillips Petroleum Company. Combination process with biphenyl production. 3,435,084, 3-25-69, Cl. 260-667.

Cabella, Paolo: *See—*
Nano, Gian Mario; and Cabella, Paolo,3,467,649.

Cabernoch, James L.; and Stevens, Kenneth H., to Baxter Laboratories, Inc. Aseptic package. 3,429,432, 2-25-69, Cl. 206-63.2

Cabin Kogyo Kabushiki Kaisha: *See—*
Sugiyama, Shiuji, 3,426,462.

Cabion, Paul J.; and Feje, Jules A., to South African Inventions Development Corporation. Antenna feed with polarization selectivity. 3,434,147, 3-18-69, Cl. 343-756.

Cable Belt Limited: *See—*
Steins, Karlfried, 3,424,296.
Thomson, Charles, 3,424,297.

Cable, Dan B. Charcoal oven. 3,455,233, 7-15-69, Cl. 99-443.

Cable, Joseph Wesley: *See—*
Russell, Robert J.; and Cable, Joseph Wesley,3,444,346.

Cable, Stephen J.: *See—*
Feichter, Harold R.; Abernethy, Ira A.; Eishley, Charles F.; Cable, Stephen J.; and Hoffman, Olin M.,3,444,660.

Cable, Wyatt T., Jr.: *See—*
Blanton, Albert G.; and Cable, Wyatt T., Jr.,3,423,132.

Cabot Corporation: *See—*
Aftandilian, Victor D., 3,455,653.
Albro, Henry H., 3,477,749.
Boyd, Joe S., 3,420,631.
Hagopian, Erivan, 3,464,797.
Hardy, John F.; and Doppler, Leonard H., 3,480,425.
Jordan, Merrill E., 3,431,074.
Jordan, Merrill E.; and Hardy, John F., 3,433,660.
Jordan, Merrill E.; and Burbine, William G., 3,464,793.
Lewis, William H.; and Rogers, Joe Y., Jr., 3,481,754.
O'Connor, Thomas L.; and Bourgault, Jean Paul, 3,449,271.
Rivin, Donald; Aron, Jerome; and Richards, Leighton B., 3,442,679.

Rivin, Donald; and Aron, Jerome, 3,479,299.
Rivin, Donald; and Aron, Jerome, 3,479,300.
Rogers, Joe Young, Jr.; and Lewis, William H., 3,436,240.
Rubel, Peter A., 3,455,761.
Wendell, Charles B.; Jordan, Merrill E.; Burbine, William G.; and Shelvey, Richard B., 3,443,901.

Caccoma, George A.: *See—*
Aronstein, Jesse; and Caccoma, George A.,3,427,517.

Cacossa, Frank G., to Flintkote Company, The. Roof deck system. 3,427,771, 2-18-69, Cl. 52-262.

Cacossa, Frank G., to Flintkote Company, The. Ceiling tile system. 3,456,411, 7-22-69, Cl. 52-483.

Cadden, James Joseph: *See—*
Jost, Ernst M.; and Cadden, James Joseph,3,481,023.

Caddick, Francis Richard. Watercraft with scoop. 3,434,444, 3-25-69, Cl. 114-57.

Caddy Corporation of America: *See—*
Rothschild, Edgar, 3,481,448.

Cade, John W.: *See—*
Lindberg, Richard W.; and Cade, John W.,3,474,434.

Cadeillan, Jean, to Blomet, Jacques. Device for taking blood samples. 3,424,148, 1-28-69, Cl. 128-2.

Cademartori, Mervyn. Roller applicator particularly adapted for coating rough surfaces. 3,448,479, 6-10-69, Cl. 15-230.11

Cadigan, John J., III: *See—*
Chin, Henry; and Cadigan, John J., III,3,486,126.

Cadillac Gage Company: *See—*
Dubrow, Alvin L., 3,460,575.
Howland, Donald C., 3,446,229.

Cadillac Overall Supply Company: *See—*
Eisenberg, David J., 3,457,105.

Cadiou, Jean Georges, to Societe Anonyme Andre Citroen. Load-responsive hydraulic shock absorbers. 3,421,606, 1-14-69, Cl. 188-100.

Cadiou, Jean Georges. Societe Anonyme Andre Citroen Braking apparatus. 3,443,843, 5-13-69, Cl. 303-22.

Cadiou, Jean Georges, to Societe Anonyme Andre Citroen. Device for the vertical adjustment of the bodies of automotive or other vehicles. 3,445,122, 5-20-69, Cl. 280-6.

Cadiou, Jean Georges, to Societe Anonyme Andre Citroen. Method of manufacture of tanks for fluids under pressure. 3,461,530, 8-19-69, Cl. 29-157.

Cadiou, Jean Georges, to Societe Anonyme Andre Citroen. Safety belts for the passengers of vehicles. 3,486,203, 12-30-69, Cl. 24-196.

Cadiou, Jean Georges, to Societe Anonyme Andre Citroen. Braking pressure limiting devices for automotive or other vehicles. 3,486,802, 12-30-69, Cl. 303-22.

Cadiou, Jean G., to Societe Anonyme Andre Citroen. Fuel metering apparatus for an engine. 3,421,487, 1-14-69, Cl. 123-140.

Cadiou, Jean G. Synchromesh transmission. 3,425,292, 2-4-69, Cl. 74-359.

Cadiou, Jean G., to Societe Anonyme Andre Citroen. Elastic stub-axle systems of wheels. 3,439,955, 4-22-69, Cl. 301-133.

Cadiou, Jean, to Societe Anonyme Andre Citroen. Counter-balancing apparatus for a pivotal panel. 3,438,152, 4-15-69, Cl. 49-386.

Cadle, Norman; and Bridenbaugh, Carl G. Collapsible back-up ring for pipe welding. 3,460,736, 8-12-69, Cl. 228-50.

Cadman, Harold O., to Phelan, Louis, A. M. Positive displacement gear type pump. 3,479,957, 11-25-69, Cl. 103-2.

Cadman, Harold O., to Phelan, Louis, A. M. Pump. 3,479,961, 11-25-69, Cl. 103-126.

Cadmus, Eugene L., to Wood-Ridge Chemical Corporation. Process for production of mercuric chloride and red oxide of mercury. 3,424,552, 1-28-69, Cl. 23-87.

Cadmus, Martin C.: *See—*
Smiley, Karl L.; Cadmus, Martin C.; and Rogovin, Seymour Peter,3,427,224.

Cadral S.A.: *See—*
Grobety, Francois, 3,462,886.

Cadwallader, Edgar A. Prevention of scale in saline water evaporators using carbon dioxide under special conditions. 3,420,775, 1-7-69, Cl. 210-48.

Cadwallader, Edgar A.; and Revilock, Joseph F., to United States of America, Interior, mesne. Method and apparatus for preventing scale formation in heat exchangers. 3,428,114, 2-18-69, Cl. 165-1.

Cadwell, Gilbert C., to Rohr Corporation. Electric discharge machine and method of metal forming. 3,452,565, 7-1-69, Cl. 72-56.

Cady, Albert B., Jr.; and Hencey, Thomas R., Jr. Tumble barge. 3,473,501, 10-21-69, Cl. 114-38.

Cady, Charles A. Method and apparatus for charging storage batteries. 3,487,284, 12-30-69, Cl. 320-20.

Cady Industries Limited: *See—*
Bruneau, Bertrand, 3,451,728.

Cady, Mark J.; and Eidnes, Dag J., to Lynch Corporation. Vehicle test system. 3,465,580, 9-9-69, Cl. 73-125.

Cady, Percy L., Jr.; and Herzog, John H., to Houdaille Industries, Inc. Tool holding structure for punching machine. 3,456,542, 7-22-69, Cl. 83-635.

Cady, Richard C., Jr., to National Cash Register Company, The. Thermal printing selection circuitry. 3,467,810, 9-16-69, Cl. 219-216.

Cady, Walter G., to North American Rockwell Corporation. Piezoelectric transducer. 3,437,851, 4-8-69, Cl. 310-9.6

Caesar, George V., to Cawsar, Philip D. Process for forming cationic polysaccharide ethers and product. 3,422,087, 1-14-69, Cl. 260-233.3

Caetano, Edward. Balling gun for animals. 3,477,419, 11-11-69, Cl. 124-27.

CAFAG Cartonnagenfabrik Freiburg: *See—*
Eltschinger, Ernest, 3,437,255.

Cafarella, Thomas; and Vasile, Carmine F., to Hazeltine Research Inc. UHF-IF or VHF-IF converter. 3,458,819, 7-29-69, Cl. 325-438.

Cafaro, William: *See—*
McLoughlin, John; and Cafaro, William,3,471,885.

Caffa, Angelo; Caffa, Letizia; and Caffa, Carla. Reelable beam. 3,450,186, 6-17-69, Cl. 160-241.

Caffa, Carla: *See—*
Caffa, Angelo; Caffa, Letizia; and Caffa, Carla,3,450,186.

Caffa, Letizia: *See—*
Caffa, Angelo; Caffa, Letizia; and Caffa, Carla,3,450,186.

Cafferata, Gerald Waterworth, to BPB Industries Limited. Production of plaster of Paris. 3,423,172, 1-21-69, Cl. 23-122.

Cafiero, Vincent J.; and Sohl, William I., to Art Metal-Knoll Corporation. Bookshelf and book support. 3,465,896, 9-9-69, Cl. 211-184.

Cagan, Bernard J.; and Tomeo, Carl Anthony, Jr., to Placo Products Company. Driving mechanism for toy vehicles. 3,474,566, 10-28-69, Cl. 46-206.

Cagen, George, to Ideal Toy Corporation. Toy boat. 3,447,259, 6-3-69, Cl. 46-243.

Caggia, Vincent P., to Lear Siegler, Inc. Pressure actuated mach/air-speed instrument for producing a linearized, electrical mach output. 3,453,883, 7-8-69, Cl. 73-182.

Caggiano, Gerard J.; and Wells, Robert C., to General Electric Company. Double tuned nutation damper. 3,426,980, 2-11-69, Cl. 244-1.

Cagle, Eugene C.: *See—*
Horton, Donelson B.; and Cagle, Eugene C.,3,435,846.

Cagle, Harlan R., to Sahlin Engineering Co., Inc. Unloader control valve unit with means for maintaining constant jaw pressure. 3,463,186, 8-26-69, Cl. 137-596.16

Cagle, Harlan R., to Sahlin Engineering Co., Inc. Control assembly. 3,474,825, 10-28-69, Cl. 137-596.16

Cagle, Wesley J., to Case, J. I., Company. Load equalizing assembly. 3,484,119, 12-16-69, Cl. 280-111.

Cahan, Bernard R.: *See—*
Frohock, Richard H., 3,455,229.

Cahan, Leslie C. Swimsuits for competition and racing. 3,436,762, 4-8-69, Cl. 2-67.

Cahen, Roger R.: *See—*
de France, Henri; and Cahen, Roger R.,3,429,731.

Cahill, David R., to Monsanto Company. Process for the preparation of copy sheet. 3,486,936, 12-30-69, Cl. 117-224.

Cahill, Gerald F.; Avtges, James A.; and Hundt, Donald D., to Grace, W. R., & Co. Process of preparing cellular closure gaskets. 3,444,281, 5-13-69, Cl. 264-45.

Cahill, John A., to D & P Minerals, Inc. Method and apparatus for sampling ore and the like. 3,487,427, 12-30-69, Cl. 73-421.

Cahill, John J. Reinforcement applicator. 3,457,815, 7-29-69, Cl. 83-140.

Cahill, John W., to Globe Manufacturing Company. Girdle. 3,454,013, 7-8-69, Cl. 128-540.

Cahill, John W., to Globe Manufacturing Company. Stabilized polyurethanes. 3,464,851, 9-2-69, Cl. 117-138.8

Cahill, Joseph J., Jr.: *See—*
Carpenter, Sammy; Witt, Enrique R.; and Cahill, Joseph J., Jr.,3,474,148.

Cahill, Richard H.; and Gehlhaus, Paul H., to United States of America, Army, mesne. Propellant comprising nitrocellulose, NH_4NO_3 rubbery polymers and burning rate modifiers. 3,445,304, 5-20-69, Cl. 149-19.

Cahlik, Jim: *See—*
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,473,845.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,482,072.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,486,789.

Cahn, Arno. Grid sheet shelf liner. 3,454,168, 7-8-69, Cl. 211-134.

Cahn, Arno; and Gilbert, Allan H., to Lever Brothers Company. 2 alkyl substituted-4-methyl-1,3-dioxanes. 3,423,430, 1-21-69, Cl. 260-340.7

Cahn, Arno; and Gilbert, Allan H., to Lever Brothers Company. Perfume compositions including ether-ketones. 3,479,301, 11-18-69, Cl. 252-522.

Cahn, Arno; Winnegrad, Ronald Ross; and Gilbert, Allan H., to Lever Brothers Company. Dihydropyran perfume. 3,455,957, 7-15-69, Cl. 260-345.1
Cahn, Charles R., to Magnavox Company, The. Time gated pseudonoise multiplexing system. 3,475,558, 10-28-69, Cl. 179-15.
Cahn, Jean; and Denis, Jean-Claude. Mental performance with potassium N-acetyl DL aminosuccinate. 3,433,875, 3-18-69, Cl. 424-319.
Cahn, Robert P.: *See*—
Frankenfeld, John W.; Cahn, Robert P.; and Zaybekian, Philip,3,427,223.
Cahn, Robert P., to Esso Research and Engineering Company. Distillation in the presence of water. 3,425,935, 2-4-69, Cl. 208-348.
Cahn, Robert P.; Long, Robert B.; Cecchetti, Ralph; Carr, Jesse M., Jr.; and De Feo, Richard J., to Esso Research and Engineering Company. Cuprous halide slurry process for ligand purification. 3,481,971, 12-2-69, Cl. 260-465.9
Cahoy, Roger P.: *See*—
Coyne, Donald M.; and Cahoy, Roger P.,3,444,240.
Cahoy, Roger P.; and Coyne, Donald M., to Gulf Oil Corporation. Manufacture of methacrylaldehyde. 3,439,045, 4-15-69, Cl. 260-604.
Cahoy, Roger P.; and Coyne, Donald M., to Gulf Oil Corporation, mesne. Novel oxidation catalyst compositions. 3,446,753, 5-27-69, Cl. 252-437.
Caillet, Eugene; and Fishbaugh, Byron L., to Goodyear Tire & Rubber Company, The. Crossing structure. 3,465,963, 9-9-69, Cl. 238-8.
Cailleux, Philippe; and Mothiron, Claude, to U.S. Philips Corporation, mesne. Dvice for controlling the voltage supply to an electric load. 3,473,085, 10-14-69, Cl. 315-194.
Caimi, Ronald J.: *See*—
Gramera, Robert E.; and Caimi, Ronald J.,3,459,731.
Cain, Audley L., to Allied Chemical Corporation. Mono- and polyazo dyestuffs containing a polyfluoroalkanol or a lower alkoxy polyfluoroalkyl group and quaternary ammonium derivatives thereof. 3,480,612, 11-25-69, Cl. 260-146.
Cain, Clifford William, Jr.: *See*—
Riede, Raymond George; and Cain, Clifford William, Jr.,3,427,249.
Cain, Cornelius K., to McNeil Laboratories, Inc.Pyrazino [2,3-β] pyrazines. 3,476,754, 11-4-69, Cl. 260-250.
Cain, Dallas E., to General Electric Company. One-way brake system. 3,452,840, 7-1-69, Cl. 188-77.
Cain, Earl S.; Carlson, Jerome A.; and Goodrich, George E., to Bearings, Seals & Gears, Inc. Ball transfer or caster unit. 3,466,697, 9-16-69, Cl. 16-26.
Cain, Ernest O., to Hunt Electronics Company. Power control circuit using bistable switching device. 3,484,623, 12-16-69, Cl. 307-252.
Cain, Gilbert E., to Hercules Incorporated. Relief valve. 3,430,650, 3-4-69, Cl. 137-535.
Cain, James Palmer: *See*—
Peters, Earl; and Cain, James Palmer,3,449,061.
Cain, Orison J.: *See*—
Kern, Edward L.; and Cain, Orison J.,3,465,278.
Cain, Pierre Arsene, to Societe Industrielle Bull-General Electric (Societe Anonyme). Operation checking arrangement. 3,474,956, 10-28-69, Cl. 234-34.
Cain, Robert L.: *See*—
Mollison, James W.; and Cain, Robert L.,3,456,863.
Cain, William Dennis, to Marconi Instruments, Limited. Rotary cam and spring loaded follower devices and arrangements incorporating same. 3,438,271, 4-15-69, Cl. 74-10.6
Caiola, Robert J.; and Rokosz, Leo F., to Dow Chemical Company, The. Polymeric compositions from α,β-monoethylenically unsaturated aldehydes and diamines and method for the preparation thereof. 3,459,710, 8-5-69, Cl. 260-72.
Cairatti, Anthony E., to Schafroth, Werner. Nailing machine. 3,434,393, 3-25-69, Cl. 91-417.
Cairney, Thomas J.: *See*—
Ziffer, Jack; Gaffney, Arthur S.; Rothenberg, Simon; and Cairney, Thomas J.,3,454,501.
Cairns, Edward L., to Du Pont de Nemours, E. I., and Company. Feeding solids to a fluidized reaction zone. 3,445,183, 5-20-69, Cl. 23-87.
Cairns, Elton J., to General Electric Company. Fuel cell electrolyte and process of using. 3,432,358, 3-11-69, Cl. 136-86.
Cairns, Robert Edward, to Monsanto Company. Adhered windshield with concealed adherent. 3,425,176, 2-4-69, Cl. 52-208.
Cairns, Theodore L., to Du Pont de Nemours, E. I., and Company. Pharmaceutical compositions and methods utilizing 3-aminotricyclo[4.3.1.1.^{3,8}] undecanes. 3,456,057, 7-15-69, Cl. 424-325.
Cairns, Thomas M., to Ford Motor Company. Electric terminal. 3,482,207, 12-2-69, Cl. 339-258.
Cairns, Thomas M., to Ford Motor Company. Electrical connector. 3,487,355, 12-30-69, Cl. 339-176.
Cairns, Walter J.: *See*—
Hidden, William P.; and Cairns, Walter J.,3,485,562.
Cairns, Walter J.; and Lindstrom, Richard S., to Little, Arthur D., Inc. Polyurethane foam reinforced fibrous article and method of forming the same. 3,483,069, 12-9-69, Cl. 161-59.
Greenhalgh, Frank Geoffrey; and Cairns, Walter John,3,425,905.
Cairns, William: *See*—
Hodgson, R. W.; and Cairns, William,3,424,072.
Caisley, Charles F.; and Finos, Luigino Marlo, to Zenith Carburetter Company, Limited, The. Air valve lift control in carburetters. 3,424,441, 1-28-69, Cl. 261-44.
Cajon Company: *See*—
Callahan, Francis J., Jr.; and Wennerstrom, Erling G., 3,486,775.
Cal-Colonial Chemsolve: *See*—
Braithwaite, Charles Henry, Jr., 3,420,915.
Cal-West Electric, Inc.: *See*—
De Bella, Gasper V., 3,463,916.
Calabrese, Joseph J.; and Gang, Lillian. Bingo game marker. 3,436,163, 4-1-69, Cl. 401-195.
Calandra, Sam S. Hair roller. 3,474,797, 10-28-69, Cl. 132-40.
Calas, Raymond Jean: *See*—
Frainnet, Emile Eugene; Calas, Raymond Jean; and Colleuille, Yves,3,440,272.
Calavo Growers of California: *See*—
Roesner, Lawrence C.; and Moen, Lenard E., 3,456,563.
Calawa, Arthur R.: *See*—
Melngailis, Ivars; and Calawa, Arthur R.,3,463,680.
Calbeck, John H. Precipitation method. 3,443,888, 5-13-69, Cl. 23-56.
Calby, Joseph W.: *See*—
Atwood, Rawson; and Calby, Joseph W.,3,451,639.
Calcium Removal, Inc.: *See*—
Holland, Fred D., 3,468,301.
Calco Engineering Corporation: *See*—
Bevis, Jeffrey M., 3,436,553.
Caldemeyer, Daniel F. Entertainment center. 3,467,455, 9-16-69, Cl. 312-7.
Caldemeyer, Daniel F.; Caldemeyer, Lloyd O.; Gates, John T.; and Bellmer, Friedrich O., said Gates assor to said Caldemeyer, D. F., and said Caldemeyer, L. O. Combination reclining and rocking chair Rotary compressor. 3,434,755, 3-25-69, Cl. 297-269.
Caldemeyer, Lloyd O.: *See*—
Caldemeyer, Daniel F.; Caldemeyer, Lloyd O.; Gates, John T.; and Bellmer, Friedrich O.,3,434,755.
Calder, Donald: *See*—
Zenftman, Henryk; and Calder, Donald,3,426,013.
Calder, William John, to Ilford Limited. Photographic processing apparatus. 3,465,663, 9-9-69, Cl. 95-89.
Calderhead, Henry J., deceased (by Calderhead, Catharine E., administratrix); and Puljer, Philip F., to Bird Electronic Corporation. Thermocouple milliwattmeter. 3,447,082, 5-27-69, Cl. 324-106.
Calderon, Albert, to Calderon Wellman Limited, mesne. Method of and apparatus for continuously casting steel. 3,472,309, 10-14-69, Cl. 164-73.
Calderon, Arthur, Jr.: *See*—
Rausch, William V.; and Calderon, Arthur, Jr.,3,458,426.
Calderon, Nissim, to Goodyear Tire & Rubber Company, The. Polyalkylene oxide polymerization process and product. 3,422,034, 1-14-69, Cl. 260-2.
Calderon, Nissim, to Goodyear Tire & Rubber, Company, The. Macrocyclic compounds preparation. 3,439,056, 4-15-69, Cl. 260-666.
Calderon, Nissim, to Goodyear Tire & Rubber Company, The. Preparation of macrocyclic compounds. 3,439,057, 4-15-69, Cl. 260-666.
Calderon Wellman Limited: *See*—
Calderon, Albert, 3,472,309.
Caldironi, Franco: *See*—
Meazzi, Remo; Caldironi, Franco; and Olivieri, Attilio,3,464,305.
Caldwell, Carlyle G.; Jarowenko, Wadym; and Hodgkin, Irving D., to National Starch and Chemical Corporation. Method of making paper containing starch derivatives having both anionic and cationic groups, and the product produced thereby. 3,459,632, 8-5-69, Cl. 162-175.
Caldwell, Clarence A. Irrigation pump control apparatus. 3,448,689, 6-10-69, Cl. 103-25.
Caldwell, Clarence H. Window cleaning apparatus. 3,428,990, 2-25-69, Cl. 15-232.
Caldwell, E. L., Inc.: *See*—
Caldwell, Frederick Clay, 3,473,302.
Caldwell, Edgar W. Dispensing device for collapsible tubes. 3,478,928, 11-18-69, Cl. 222-103.
Caldwell, Frederick Clay, to Caldwell, E. L., Inc. Tractor drawn multiple section foldable mower. 3,473,302, 10-21-69, Cl. 56-6.
Caldwell, Henry C.; and Groves, William G., to Smith Kline & French Laboratories. 3-Tropanyl-2-aminophenylacrylate compounds. 3,458,507, 7-29-69, Cl. 260-242.

Caldwell, James H., Jr.: *See—*
Racine, William J.; Alpert, Edward D.; and Caldwell, James H., Jr.,3,438,889.
Caldwell, John H., IV; Klee, Charles W.; Hiller, Alexander J.; Hanley, Thure E.; and Mathes, Robert H., to United States of America, Navy. Cathode ray tube with electron beam interceptor. 3,475,637, 10-28-69, Cl. 313-72.
Caldwell, John P.: *See—*
Chawda, Prabhulal P.; and Caldwell, John P.,3,448,724.
Caldwell, John P.; and Punnett, Frazer D., to Xerox Corporation. Scanning system. 3,454,335, 7-8-69, Cl. 355-8.
Caldwell, John R.: *See—*
Jackson, Winston J., Jr.; and Caldwell, John R.,3,431,230.
Jackson, Winston J., Jr.; and Caldwell, John R.,3,442,896.
Jackson, Winston J., Jr.; and Caldwell, John R.,3,446,855.
Jackson, Winston J., Jr.; and Caldwell, John R.,3,470,235.
Jackson, Winston J., Jr.; and Caldwell, John R.,3,475,373.
Jackson, Winston Jerome, Jr.; and Caldwell, John R.,3,454,672.
Caldwell, John R., to Eastman Kodak Company. Dyeable polymers. 3,432,472, 3-11-69, Cl. 260-75.
Caldwell, John R., to Eastman Kodak Company. Poly(amide-esters) of aromatic compounds. 3,440,218, 4-22-69, Cl. 260-47.
Caldwell, John R., to Eastman Kodak Company. Articles prime coated with polyesters containing free carboxyl groups. 3,459,584, 8-5-69, Cl. 117-72.
Caldwell, John R., to Eastman Kodak Company. Polyester fibers having improved hydrophilicity as a result of modification with phosphoric acid, phosphorous acid or perchloric acid. 3,460,896, 8-12-69, Cl. 8-i15.5
Caldwell, John R., to Eastman Kodak Company. Blends of polyesters containing free carboxyl groups and laminate thereof. 3,484,339, 12-16-69, Cl. 161-231.
Caldwell, John R.; and Gilkey, Russell, to Eastman Kodak Company. Polyester article coated with a cured, cross- linked polyester derived from (a) at least one polyhydric alcohol (b) at least one dicarboxylic compound and (c) a poly(oxyethylene) alcohol. 3,464,852, 9-2-69, Cl. 117-138.8
Caldwell, John R.; and Hedberg, David G., Jr., to Eastman Kodak Company. Dyeable polyolefin compositions and products therefrom. 3,431,322, 3-4-69, Cl. 260-873.
Caldwell, John R.; and Hill, Edward H., to Eastman Kodak Company. Polymers of phosphate esters. 3,449,303, 6-10-69, Cl. 260-80.71
Caldwell, John, to English Electric Company Limited, The. Natural draught dry cooling towers. 3,474,855, 10-28-69, Cl. 165-47.
Caldwell, Keith G. Stylus and equipment testing record for record players. 3,460,841, 8-12-69, Cl. 274-42.
Caldwell Research Corporation: *See—*
Lightcap, Edwin T., 3,421,080.
Caldwell, Richard L., to Mobil Oil Corporation. Borehole fluid excluder releasably coupled to borehole tool. 3,432,667, 3-11-69, Cl. 250-108.
Caldwell, Richard L., to Mobil Oil Corporation. Three-dimensional display of borehole logs. 3,434,568, 3-25-69, Cl. 181-0.5
Caldwell, Richard L.; and Zemanek, Joseph, Jr., to Mobil Oil Corporation. Sonic system for locating objects in the bottom of a borehole. 3,425,507, 2-4-69, Cl. 181-0.5
Caldwell, Richard L.: *See—*
Zemanek, Joseph, Jr.; and Caldwell, Richard L.,3,426,585.
Caldwell, Robert E.; and Cass, Louis G., to Chrysler Corporation. Horn actuating switch. 3,479,477, 11-18-69, Cl. 200-61.55
Caldwell, Roland B., to Ranco Incorporated. Electromagnetic fluid valve. 3,422,850, 1-21-69, Cl. 137-625.65
Caldwell, Roland B., to Ranco Incorporated. Variable time delay mechanism. 3,426,380, 2-11-69, Cl. 15-250.12
Caldwell, Roland B., to Ranco Incorporated. Automotive temperature control. 3,428,115, 2-18-69, Cl. 165-23.
Caldwell, Roland B., to Ranco Incorporated. Liquid flow control valve mechanism. 3,477,498, 11-11-69, Cl. 165-38.
Caldwell, Walter H.: *See—*
Giordano, Amcs F.; and Caldwell, Walter H.,3,441,674.
Caldwell, William A., to L & H Manufacturing Co. Floatable trotline. 3,435,552, 4-1-69, Cl. 43-43.15
Caldwell, William J. Fluid pump. 3,444,817, 5-20-69, Cl. 103-88.
Caldwell, William W.: *See—*
Dillingham, Edward; Caldwell, William W.; and De Vore, William W.,3,472,373.
Calc, Albert D., Jr.: *See—*
Dawson, Norman D.; and Calc, Albert D., Jr.,3,433,802.
Lunsford, Carl D.; and Calc, Albert D., Jr.,3,429,893.
Calc, Roland E., to Schaefer Equipment Company. Railroad car brake dead lever link anchor. 3,423,112, 1-21-69, Cl. 287-20.1
Calc, Roland E., to Schaefer Equipment Company. Railroad car brake dead lever link anchor. 3,441,301, 4-29-69, Cl. 287-189.36
Calcd Products Company, Inc.: *See—*
Cooley, Warren K.; and Mease, Ralph T., 3,452,110.
Caledex Machine Company: *See—*
Williams, Albert Henry; and Vitols, Reinhard, 3,460,442.
Calemard, Francois. Method and apparatus for dividing thermo-fusible synthetic plastic materials. 3,469,479, 9-30-69, Cl. 83-16.
Caley, Donald A., to Ford Motor Company. One-piece vehicle climate control actuating device. 3,444,757, 5-20-69, Cl. 74-523.
Calfee, Richard W.; Hopner, Emil; Meyer, Orman F.; and West, Lynn P., to International Business Machines Corporation. Vestigial sideband frequency shift keying modem. 3,466,392, 9-9-69, Cl. 178-66.
Calfee, Wendell: *See—*
Billings, William W.; and Calfee, Wendell,3,444,387.
Calfee, Wendell, to Westinghouse Electric Corporation. Miniature phase sequence sensing circuit. 3,431,467, 3-4-69, Cl. 317-47.
Calgon Corporation: *See—*
Boothe, Jerry E., 3,461,163.
Boothe, Jerry E., 3,472,740.
Carothers, Robert O., 3,476,155.
Erskine, Donald B., 3,444,078.
Hatch, George B.; and Ralston, Paul H., 3,483,133.
Hiltgen, Aloysius X.; and Matz, William H., 3,454,502.
Hoover, Merwin Frederick; and Padden, John J., 3,442,803.
Joyce, Ronald S.; and Hager, Donald G., 3,455,820.
Mahon, John H., 3,462,278.
Oliver, Ward H.; and Stump, Eugene C., Jr., 3,472,822.
Petzold, Max L.; Brooks, Thomas W.; and Bane, John M., Jr., 3,479,353.
Ralston, Paul H., 3,434,969.
Ralston, Paul H., 3,451,939.
Rivers, Hubert M., 3,428,557.
Rivers, Hubert M., 3,447,510.
Schaper, Raymond J.; and Hoover, Merwin Frederick, 3,486,932.
Slyker, John V., 3,483,925.
Swartz, William E., 3,429,001.
Zeh, Herbert J., Jr.; and Bischof, Alan E., 3,451,480.
Calhoon, Charles D., Sr.; and Ciccarelli, Dom J., to United States of America, Navy, mesne. Pulse doppler filter bank interrogation scheme. 3,444,557, 5-13-69, Cl. 343-8.
Calhoon, Charles D.; and Cromer, Oscar M., to United States of America, Air Force, mesne. PRF switching and transient blank timer. 3,452,352, 6-24-69, Cl. 343-17.1
Calhoon, Charles D.: *See—*
Hayes, William E.; and Calhoon, Charles D.,3,440,876.
Calhoun, David L. Method and apparatus for leak testing. 3,431,773, 3-11-69, Cl. 73-49.2
Calhoun, Edward T. D.: *See—*
Budlong, Albert H.; Calhoun, Edward T. D.; and Goeller, Leopold F., Jr.,3,441,678.
Calhoun, Fredrick L., to Industrial Dynamics Company, Ltd. Infrared liquid level inspection system for a container which may contain foam above the liquid. 3,454,759, 7-8-69, Cl. 250-43.5
Calhoun, Fredrick L., to Industrial Dynamics Company, Ltd. Ejector mechanism and control device. 3,471,012, 10-7-69, Cl. 209-74.
Calhoun, George H.; Bingman, William E.; and Swanson, Theodore M., to Shell Oil Company. Process of drilling a well with hot sour gas drilling fluid. 3,463,250, 8-26-69, Cl. 175-17.
Calhoun, George H.: *See—*
Swanson, Theodore M.; Calhoun, George H.; Bingman, William E.; and Treseder, Richard S.,3,462,239.
Calhoun, Waldo E. Fluid cushioned steering column. 3,435,700, 4-1-69, Cl. 74-493.
Calhoun, William L. Gin stand. 3,448,493, 6-10-69, Cl. 19-63.
Calico Cottage Candies, Inc.: *See—*
Barnett, Claude D., 3,434,847.
Califano, Francesco Paolo: *See—*
Steele, Martin C.; and Califano, Francesco Paolo,3,477,041.
Califoam Corporation of America: *See—*
Marshack, Irving L., 3,486,177.
California Computer Products, Inc.: *See—*
Jennings, Alan K.; Cone, Ronald D.; and Seid, Eugene, 3,427,556.
Lewis, Edward V., 3,464,330.
McCollough, Darrel G.; and Trousdale, Robert B., 3,471,847.
Newland, James E.; and Morton, Robert C., 3,461,365.
Trousdale, Robert B., 3,425,038.
Wiley, Franklyn L.; and Amendt, Leroy E., 3,434,113.
California Industrial Products, Inc.: *See—*
Derby, Marshall T., 3,426,818.
Derby, Marshall T., 3,457,824.
California Institute of Technology: *See—*
Heyser, Richard C., 3,466,652.
California Institute Research Foundation: *See—*
Bauman, Albert J.; Weliky, Nrman; and Weetall, Howard H., 3,484,390.
Das Gupta, Kamalaksha; Schnopper, Herbert W.; and Metzger, Albert E., 3,440,419.
George, Nicholas, 3,458,249.
Goetz, Alexander, 3,475,951.
Goodstein, David L., 3,447,333.
Kankeleit, Egbert, 3,446,962.
Miller, Wayne F., 3,454,882.
Motta, Nathaniel, 3,453,525.
Parker, Gary L., 3,478,514.

Scott, Ronald F.; Ko, Hon-Yim; and Auksmann, Boris, 3,423,994.
Scott, Ronald F.; and Ko, Hon-Yim, 3,423,995.
California Packing Corporation: *See*—
Ross, Edward E.; and Cunningham, Jack, 3,455,307.
Vargen, Richard, 3,424,108.
California Pellet Mill Company: *See*—
Gilman, Robert W., 3,422,748.
California Portland Cement Company: *See*—
Tabikh, Ali A., 3,482,452.
California Texas Oil Corporation: *See*—
Kirkpatrick, William F., 3,425,584.
Calim, Thomas A., to Master Swaging & Mfg., Company. Actuator apparatus. 3,450,382, 6-17-69, Cl. 251-58.
Calisher, Jay V., to Wiggins, E. B., Inc. Self-locking coupling. 3,450,424, 6-17-69, Cl. 285-305.
Calisher, Jay V., to Wiggins, E. B., Inc. Electrical connector assembly. 3,458,850, 7-29-69, Cl. 339-45.
Calistrat, Mircea, to Koppers Company, Inc. Stacking system for paperboard blanks. 3,447,696, 6-3-69, Cl. 214-6.
Calistrat, Mircea, to Koppers Company, Inc. Article actuated pneumatic separator. 3,476,380, 11-4-69, Cl. 271-32.
Calkin, Edwin T.; and Ianniello, Joseph W., to Bell Telephone Laboratories Incorporated. Relay latching circuit. 3,430,107, 2-25-69, Cl. 317-137.
Calkin, Edwin T.; and Ianniello, Joseph W., to Bell Telephone Laboratories, Incorporated. Dynamic voltage balancing circuit. 3,458,711, 7-29-69, Cl. 307-36.
Calkins, Edward H. Air insulated dry bowl pipe. 3,422,821, 1-21-69, Cl. 131-195.
Calkins, Ray L.: *See*—
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L.,3,484,608.
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L.,3,484,609.
Call, Daniel Dale, to Bell & Howell Company. Stabilized optical system. 3,424,522, 1-28-69, Cl. 352-140.
Call, Daniel D., to Bell & Howell Company. Precession inhibitor. 3,424,520, 1-28-69, Cl. 352-243.
Call, Daniel D., to Bell & Howell Company. Device for fan folding documents. 3,442,503, 5-6-69, Cl. 270-61.
Call, Daniel D., to Bell & Howell Company. Gyroscope friction erection mechanism. 3,449,962, 6-17-69, Cl. 74-5.7
Call, Daniel D., to Bell & Howell Company. Gyroscope drive support mechanism. 3,449,963, 6-17-69, Cl. 74-5.7
Call, Daniel D., to Bell & Howell Company. Concentric lens stabilization system. 3,459,473, 8-5-69, Cl. 352-140.
Call, Daniel D., to Bell & Howell Company. Flipper arm assembly for sensing switches with backing off movement. 3,461,255, 8-12-69, Cl. 200-61.42
Call, Donald H.: *See*—
Ehrenzeller, Wesley S.; and Call, Donald H.,3,456,604.
Ehrenzeller, Wesley S.; and Call, Donald H.,3,460,489.
Call-Boy Systems, Inc.: *See*—
Beilfuss, Freeman C., 3,469,251.
Callaghan, John David, to Radio Corporation of America. Method of securing a rod to a supporting structure. 3,429,033, 2-25-69, Cl. 29-600.
Callaghan, John D., to Radio Corporation of America. Antenna. 3,445,854, 5-20-69, Cl. 343-912.
Callaghan, Phillip B.: *See*—
Chesnut, Merrill Gaines; and Callaghan, Phillip B.,3,426,743.
Callahan, David E.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,318.
Callahan, Francis G., to Textile Rubber & Chemical Co., Inc. Process of making padding material. 3,453,351, 7-1-69, Cl. 264-47.
Callahan, Francis J., Jr., to Nupro Company. Method of testing joints in pressurized fluid lines. 3,426,580, 2-11-69, Cl. 73-40.
Callahan, Francis J., Jr.; Gallagher, Bernard J.; Tasker, Jonathan; and Shufflebarger, Earl D., to Nuclear Products Company. Bellows metering valve. 3,428,291, 2-18-69, Cl. 251-122.
Callahan, Francis J., Jr.; and Wennerstrom, Erling G., to Cajon Company. Fitting. 3,486,775, 12-30-69, Cl. 285-348.
Callahan, Howard Edward; and O'Connor, Ralph John, to Carey, Philip, Corporation, The. Laminated vapor barrier sheet material. 3,424,647, 1-28-69, Cl. 161-205.
Callahan, James J., to Houdaille Industries, Inc. Garter check valve. 3,459,217, 8-5-69, Cl. 137-516.15
Callahan, James J., to McCord Corporation. Indicating means for divisional lubricant feeder. 3,459,278, 8-5-69, Cl. 184-7.
Callahan, James J., to McCord Corporation. Divisional lubricant feeder with bypass means. 3,476,214, 11-4-69, Cl. 184-7.
Callahan, James L.: *See*—
Grasselli, Robert K.; and Callahan, James L.,3,435,061.
Callahan, James L., to Standard Oil Company, The (Ohio). Process of oxidation of olefins to unsaturated aldehydes. 3,445,520, 5-20-69, Cl. 260-604.
Callahan, James L., to Standard Oil Company, The (Ohio). Process for the oxidation of olefin-ammonia mixtures to unsaturated nitriles. 3,461,150, 8-12-69, Cl. 260-465.3
Callahan, James L., to Standard Oil Company, The (Ohio). Process for oxidation of olefins to unsaturated aldehydes and acids. 3,468,958, 9-23-69, Cl. 260-604.
Callahan, James L.; and Cross, Gordan G., to Standard Oil Company, The (Ohio). Ammonia recovery with a molten salt in process for the production of monoolefinically unsaturated nitriles. 3,444,234, 5-13-69, Cl. 260-465.3
Callahan, James L.; and Gertisser, Berthold, to Standard Oil Company, The (Ohio). Process of oxidation of olefins to unsaturated aldehydes and acids. 3,428,674, 2-18-69, Cl. 260-533.
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R., to Standard Oil Company, The (Ohio). Olefinic nitriles by ammoxidation of olefins with promoted antimony oxide-uranium oxide catalyst. 3,431,292, 3-4-69, Cl. 260-465.3
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R., to Standard Oil Company, The (Ohio). Promoted antimony-iron oxidation catalyst. 3,445,521; 5-20-69, Cl. 260-604.
Callahan, James L.; and Milberger, Ernest C., to Standard Oil Company, The (Ohio). Fluid bed process for synthesis of nitriles by ammoxidation and the recycling of ammonia-rich catalyst from a quench zone to a reaction zone. 3,472,892, 10-14-69, Cl. 260-465.3
Callahan, James L.; Milberger, Ernest C.; and Grasselli, Robert K., to Standard Oil Company, The (Ohio). Process for preparing olefinically unsaturated aldehydes and nitriles. 3,427,343, 2-11-69, Cl. 260-465.3
Callahan, Joe S. Weft thread restrainer. 3,442,299, 5-6-69, Cl. 139-170.3
Callahan, John C., to American Cyanamid Company. Method for ointment storage and dispensing. 3,480,014, 11-25-69, Cl. 128-261.
Callahan, Joseph W., to Chemical Cleaning & Equipment Service, Inc. Method for removing scale deposits. 3,447,963, 6-3-69, Cl. 134-2.
Callahan, Michael L.: *See*—
Siebold, Donald J.; and Callahan, Michael L.,3,478,718.
Callan, John E.; and Topcik, Barry, to Columbia Carbon Company. Method for compounding rubber for increasing tack. 3,485,791, 12-23-69, Cl. 260-41.5
Callaway Mills Company: *See*—
Short, Joe T., 3,422,860.
Short, Joe T., 3,424,114.
Short, Joe T., 3,435,787.
Short, Joe T., 3,447,496.
Callaway, Vernon E.; and Goralski, Leonard S., to Boeing Company, The. Sound energy absorbing apparatus. 3,439,774, 4-22-69, Cl. 181-42.
Callegari, Louis G. Snap-on removable can plugs. 3,476,284, 11-4-69, Cl. 220-24.
Callegari, Luciano: *See*—
Dal Monte, Giorgio; and Callegari, Luciano,3,430,003.
Ferrari, Agostino; Callegari, Luciano; and Rivetta, Gianfranco,3,476,886.
Callegari, William A.; Matthews, Ralph W.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D., to Caterpillar Tractor Company. Transmission overshift inhibitor. 3,465,851, 9-9-69, Cl. 188-97.
Callies, Dominique: *See*—
Barnabe, Jean-Louis; Callies, Dominique; and Cornier, Jean-Claude,3,421,628.
Callihan, Clayton D.; Boudreaux, Joseph R.; and Smith, Cecil L., to Dow Chemical Company, The. Manufacture of carboxymethyl hydroalkyl mixed cellulose ethers. 3,448,100, 6-3-69, Cl. 260-231.
Callisto, La Garenne, and Sud-Aviation: *See*—
Langlet, Jean; and Andre, Joseph Gustave Etienne, 3,442,005.
Calloway, George P., Jr.; and Williams, Robert F., Jr., to Eastman Kodak Company. Matte finished formed article and method of producing same. 3,485,652, 12-23-69, Cl. 106-180.
Calloway, George P., Jr.: *See*—
Williams, Robert F., Jr.; and Calloway, George P., Jr.,3,463,773.
Calmac Manufacturing Corporation: *See*—
MacCracken, Calvin D., 3,438,445.
Calmec (Manufacturing) Limited: *See*—
Schneider, Jack M., 3,456,296.
Calnon, Donald C., Jr.; Fillinger, Russell V.; Holznagel, Melvin A.; and Stack, Richard W., to Tektronix, Inc. Automatic erase circuit for storage tube. 3,426,237, 2-4-69, Cl. 315-12.
Caloccia, Ernest: *See*—
Wagner, Walter D.; King, Philip E.; Caloccia, Ernest; and Robbins, Robert,3,470,483.
Caloia, John A. Root watering device. 3,461,606, 8-19-69, Cl. 47-48.5
Calor Appareils Electro-Domestiques: *See*—
Trouilhet, Maurice Marie Achille, 3,481,533.
Trouilhet, Maurice Marie Achille, 3,483,545.

Calor-Emag Elektrizitats-Aktiengesellschaft: *See—*
Brockhaus, Gehard; Leonhardt, Gunter; and Weber, Heinz, 3,461,257.
Caloric Corporation: *See—*
Gehrke, Robert C., 3,436,165.
Kemp, Wayne T., 3,455,290.
Saponara, Domenick, 3,437,416.
Saponara, Domenick, 3,448,923.
Calow, Clifford Aubrey, to United Kingdom Atomic Energy Authority. Processes for producing fibre-reinforced materials. 3,450,510, 6-17-69, Cl. 29-182.2
Calta, Salvatore A.; Carlson, Harry A.; Granito, Gerry D.; Kaumeyer, Lynn W.; Marcotte, Alphonse U.; and Messina, Benedicto U., to International Business Machines Corporation. Peripheral data exchange. 3,447,135, 5-27-69, Cl. 340-172.5
Calton, Marion R.: *See—*
Oberle, Theodore L.; and Calton, Marion R.,3,421,201.
Oberle, Theodore L.; Calton, Marion R.; and Loyd, Calvin D.,3,452,914.
Oberle, Theodore L.; Calton, Marion R.; Loyd, Calvin D.; and White, Claude F.,3,435,510.
Calton, Marion R., to Caterpillar Tractor Company. Friction welding apparatus with shearing tool for removing flash formed during welding. 3,438,561, 4-15-69, Cl. 228-13.
Calton, Marion R.; and Hautala, Richard E., to Caterpillar Tractor Company. Method and apparatus for friction bonding materials having different high temperature strength. 3,452,422, 7-1-69, Cl. 29-470.3
Calton, Marion R.; Oberle, Theodore L.; and Weiss, Carl D., to Caterpillar Tractor Company. Welding of dispersion strengthened alloys. 3,477,117, 11-11-69, Cl. 29-470.3
Calton, Marion R.; and Weiss, Carl D., to Caterpillar Tractor Company. Welding high heat conductive materials. 3,477,116, 11-11-69, Cl. 29-470.3
Caltrider, Paul G.; and Hayes, Harold B., to Lilly, Eli, and Company. Process for tylosin production. 3,433,711, 3-18-69, Cl. 195-114.
Calumet & Hecla Corporation: *See—*
Day, Howard E., 3,466,143.
Hayes, Billy H., 3,439,863.
Hyde, William S., 3,481,237.
Ledbetter, Jerry Nelson, 3,466,846.
Saarivirta, Matti J., 3,421,888.
Withers, James G., Jr., 3,481,394.
Calumet & Hecla, Inc.: *See—*
Goble, Ralph W., 3,434,329.
Habdas, Edward P., 3,455,379.
Lincicome, Thomas N., 3,424,202.
Martin, John R., 3,444,716.
Poxon, Alan; and Taylor, James W., 3,420,553.
Calumet Manufacturing Co., Inc.: *See—*
Leshin, Joseph, 3,451,096.
Calvano, Ferruccio C., to Mainar S.A. Industrial. Metering device. 3,477,616, 11-11-69, Cl. 222-197.
Calvert, Harry B., to Coe Manufacturing Company, The. Veneer lathe. 3,455,354, 7-15-69, Cl. 144-209.
Calvert, Raymond; and Mildwater, John, to Kerr, Wayne, Company Limited, The. Transfer ratio arm bridge having correction for lead impedances employing differential amplifier supplying corrective voltages. 3,474,335, 10-21-69, Cl. 324-57.
Calvert, William L.: *See—*
Donnell, Emerson Bradford, Jr.; and Calvert, William L.,3,480,505.
Calvert, William L., to Union Carbide Corporation. Bundle of stacked bags. 3,467,249, 9-16-69, Cl. 206-57.
Calvert, William L., to Union Carbide Corporation. Transport device for a sheet of material. 3,469,835, 9-30-69, Cl. 271-54.
Calvery, Frank E.: *See—*
Craft, Leonard F.; and Calvery, Frank E.,3,448,034.
Calvesbert, James William: *See—*
Robinson, Alfred Alexander; and Calvesbert, James William,3,469,050.
Calvin, Victor E.: *See—*
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace,3,483,071.
Calvin, Yolanda; and Lazaro, Miguel. Rocking mechanism. 3,453,668, 7-8-69, Cl. 5-109.
Calzaretta, Richard: *See—*
Auerbach, William A.; Kurimsky, Albert; and Calzaretta, Richard,3,446,327.
Calzaretta, Richard; Kull, Leo; and Kurimsky, Albert, to Rowe International, Inc., mesne. Operating mechanism for mechanical merchandising machine. 3,437,237, 4-8-69, Cl. 221-90.
Cam Gears Limited: *See—*
Adams, Frederick John, 3,421,387.
Cam Technology Incorporated: *See—*
Weber, Theodore, Jr., 3,426,619.
Camac, George; and Saunders, David J., to Speedwell Research Limited. Pumps. 3,429,268, 2-25-69, Cl. 103-111.
Camacho, Julian, to Jennings Radio Manufacturing Corporation. Vacuum relay having a pivotally mounted armature. 3,446,926, 5-27-69, Cl. 200-144.
Camacho, Salvador L., to United States of America, National Aeronautics and Space Administration. Protective circuit of the spark gap type. 3,450,946, 6-17-69, Cl. 317-16.
Camacho, Vasco G.: *See—*
Byrd, Wendell M., Jr.; and Camacho, Vasco G.,3,459,733.
Camacho, Vasco G.; Anderson, James J.; and Byrd, Wendell M., Jr., to Mobil Oil Corporation. Phosphorus-containing esters and process therefor. 3,465,068, 9-2-69, Cl. 260-952.
Camack, Walter G., to Philco-Ford Corporation. Method and instrument for simulating albedo radiations of astronomical bodies. 3,461,295, 8-12-69, Cl. 250-88.
Camarata, Frank Justin, to United Aircraft Corporation. Twin vortex angular rate sensor. 3,447,383, 6-3-69, Cl. 73-505.
Camarata, Peter W.; and Wicks, John W., to United States of America, Navy. Cam controlled pulse responsive receiver. 3,449,719, 6-10-69, Cl. 340-164.
Cambanis, Constantine John. Method and machine for producing kataifi. 3,481,284, 12-2-69, Cl. 107-4.
Cambersburg Engineering Company: *See—*
Weyer, Henry A., 3,464,315.
Cambi, Livio. Preparation of water-insoluble sulphides. 3,427,126, 2-11-69, Cl. 23-138.
Cambornac, Michel J.; Chazot, Jean J.; and Puechberty, Lucien P., to Societe Mixte pour L'Etude et le Developpement de la Technique des Centres Postaux Mecanises. Automatic sorting system for articles such as mailbags. 3,438,489, 4-15-69, Cl. 209-111.5
Cambou, Francis G.; and Cotin, Francis L., to Centre National de la Recherche Scientifique. Ionization type gauge usable over a wide range of pressures. 3,446,958, 5-27-69, Cl. 250-43.5
Cambre, Cushman M.: *See—*
Walker, George B.; and Cambre, Cushman M.,3,428,680.
Cambridge Filter Manufacturing Corporation: *See—*
Bauder, Carl J.; Hart, Charles G.; and Cleminshaw, Douglas R., 3,485,694.
Hart, Charles G., 3,423,908.
Cambridge Instrument Company, Inc.: *See—*
Kruse, Louis C.; and Tierney, Arthur P., 3,450,619.
Whitmore, Chatland; and Redway, George F., 3,478,579.
Cambridge Memory Systems, Inc.: *See—*
Fuller, Harrison W.; McCormack, Thomas Leo; Aghassi, Badri Munir; and Morley, Richard E., 3,436,814.
Spain, Robert J., 3,438,006.
Spain, Robert J.; and Jauvtis, Harvey I., 3,461,442.
Spain, Robert J.; and Jauvtis, Harvey I., 3,465,316.
Cambridge Memory Sytems, Inc.: *See—*
Spain, Robert J., 3,438,016.
Cambridge Research and Development Group: *See—*
Greenberg, Sanford David; and Norvell, Bert E., 3,480,737.
Cambridge Research Inc.: *See—*
Rosen, William E.; and Drew, John W., 3,468,900.
Cambridge, Ronan M.: *See—*
Tanner, Robert H.; Cambridge, Ronan M.; and Beresford, Morris M.,3,470,533.
Cambridge, Ronon M.; and Gardiner, Allan K., to Northern Electric Company Limited. Protective system for amplifiers. 3,440,556, 4-22-69, Cl. 330-59.
Cambridge Scientific Industries, Incorporated: *See—*
Hoge, Henri H., 3,480,851.
Holdt, Donald H., 3,452,435.
Cambridge Thermionic Corporation: *See—*
Lyman, Frank, Jr., 3,456,234.
Lyman, Joseph, 3,428,371.
Lyman, Joseph, 3,473,852.
Cambridge Wire Cloth Company: *See—*
Andrews, Donald E., 3,483,912.
Camco, Incorporated: *See—*
Current, James H., 3,450,205.
Current, James H.; and Ehlert, Harry C., 3,456,723.
Delatorre, Leroy Christopher, 3,445,746.
Tausch, Gilbert H., 3,437,964.
Watkins, Fred E., 3,446,281.
Watkins, Fred E., 3,450,206.
Watkins, Fred E., 3,474,861.
Cameli, Nazzareno: *See—*
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto,3,453,247.
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto,3,470,142.
Turba, Vittorio; Cameli, Nazzareno; and Sartori, Cuido,3,444,147.
Valvassori, Alberto; Cameli, Nazzareno; and Sartori, Guido,3,467,631.
Camenzind, Hans R., to Mallory, P. R., & Co., Inc. Three-stage amplifier. 3,437,944, 4-8-69, Cl. 330-10.
Camenzind, Hans R., to Mallory, P. R., & Co. Inc. Integrated-circuit amplifier and oscillator. 3,440,648, 4-22-69, Cl. 340-388.

Camenzind, Hans R., to Mallory, P. R., & Co., Inc. Pulse-width modulation circuits. 3,445,788, 5-20-69, Cl. 331-113.
Camenzind, Hans R., to Mallory, P. R., & Co., Inc. Timing network. 3,459,970, 8-5-69, Cl. 307-265.
Camera Corporation of America: *See—*
Linder, George J., 3,440,941.
Cameras for Industry, Inc.: *See—*
Friedman, Hirsch, 3,434,405.
Cameron, Albert R.: *See—*
Johnson, Dwight N.; and Cameron, Albert R.,3,425,442.
Cameron, Daniel F., to Continental Oil Company. Process for the manufacture of two or more grades of petroleum coke. 3,472,761, 10-14-69, Cl. 208-131.
Cameron, Daniel F.: *See—*
Turner, Malcolm M.; and Cameron, Daniel F.,3,428,664.
Cameron, Frank J., to Kal-Pac Engineering Ltd., mesne. Ring barker. 3,465,798, 9-9-69, Cl. 144-208.
Cameron, Grant McLay; and Duke, Angus John, to Ciba Limited. Curable ester compositions. 3,465,057, 9-2-69, Cl. 260-830.
Cameron, Harold A., to Hughes Aircraft Company. High repetition rate laser. 3,440,558, 4-22-69, Cl. 331-94.5
Cameron Iron Works, Inc.: *See—*
Ahlstone, Arthur G., 3,448,799.
Allen, Herbert, 3,472,271.
Jones, Marvin R.; and Baugh, Benton F., 3,429,385.
Jones, Marvin R., 3,443,643.
Jones, Marvin R.; and Baugh, Benton F., 3,477,526.
Williams, Leonard E.; and Gruller, David L., 3,481,396.
Cameron, John F.; and Fenn, George S., to FMA, Inc. Storage and retrieval of graphic information. 3,484,751, 12-16-69, Cl. 340-172.5
Cameron, John K., to Amphenol Corporation. Electrical connector tool. 3,451,117, 6-24-69, Cl. 29-203.
Cameron, John, to Burroughs Wellcome & Co. (U.S.A.), Inc. Method of preparing Brucella abortus vaccines. 3,449,209, 6-10-69, Cl. 195-96.
Cameron Machine Company: *See—*
Javid, Farnhang, 3,469,836.
Lyman, Merton C., 3,477,711.
Cameron, Margaret M. Illustrative object forming bookcover. 3,456,380, 7-22-69, Cl. 46-12.
Cameron, Russell J.; Nielsen, Irvin P.; and Burgh, Ernst E. Mining and retorting of oil shale. 3,460,867, 8-12-69, Cl. 299-2.
Cameron, Scott H.; and Liveright, Michael A., to IIT Research Institute. Graphical input system. 3,449,516, 6-10-69, Cl. 178-18.
Cameron, Steele P.: *See—*
Quick, Lloyd; Mortoly, John L.; and Cameron, Steele P.,3,428,508.
Camhi, Jack C.; Hackney, Donald E.; and Lewis, Thomas Glenn, Jr., to Du Pont de Nemours, E. I., and Company. Apparatus for forming layers. 3,422,494, 1-21-69, Cl. 18-15.
Camiener, Gerald W.: *See—*
Hanze, Arthur R.; and Camiener, Gerald W.,3,462,416.
Camila, Friedolf: *See—*
Prince, Clarence F.; and Camila, Friedolf,3,440,801.
Camin Laboratories, Inc.: *See—*
Fialkoff, Samuel, 3,424,657.
Naimer, Hubert L., 3,467,583.
Camirand, Wayne M.; and Forrey, Ralph R., to United States of America, Agriculture. Osmotic dehydration of coated foods. 3,425,848, 2-4-69, Cl. 99-199.
Camis, Theodore G., Jr.: *See—*
Andrae, Ralph N.; and Camis, Theodore G., Jr.,3,431,672.
Cammack, Michael A., to Aqua Tec Corporation, mesne. Fluid pressure control for oral hygiene apparatus of the water jet type. 3,425,410, 2-4-69, Cl. 128-66.
Cammarata, Henri. Spacing system for dental prosthesis. 3,460,253, 8-12-69, Cl. 32-5.
Cammarata, Italo: *See—*
Vecchio, Martino; Cammarata, Italo; and Lodi, Luciano,3,442,962.
Vecchio, Martino; Lodi, Luciano; Fattore, Vittorio; and Cammarata, Italo,3,476,817.
Cammell Laird & Company (Shipbuilders & Engineers) Limited: *See—*
Daniell, Alan F., 3,470,838.
Cammer, Bobby E.; and Venning, Selby G., to General Electric Company. Pin interconnection verification system responding to a repeated occurrence of a predetermined voltage on one of the pins. 3,470,467, 9-30-69, Cl. 324-73.
Camoletti, Bruno; and Hausermann, Pascal, to Societe Sciper A.A. Compoundly curved, sectional structure. 3,468,083, 9-23-69, Cl. 52-81.
Camossi, Carlo. Method for making vibration dampening and shock absorbing support. 3,476,851, 11-4-69, Cl. 264-229.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf, to United States of America, Atomic Energy Commission, mesne. Method of processing nuclear fuel by selective ClF fluorination with separation of UF_6 and PuF_4. 3,429,669, 2-25-69, Cl. 23-326.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf, to United States of America, Atomic Energy Commission, mesne. Method of fluorinating nuclear fuel with recovery of plutonium tetrafluoride and uranium hexafluoride. 3,429,670, 2-25-69, Cl. 23-326.
Camp, Albert T.; Csanady, Elmer R.; and Danziger, Leonard, to United States of America, Navy. Acetone treated nitrocellulose-based propellant and process. 3,447,983, 6-3-69, Cl. 149-98.
Camp, Dennis W.: *See—*
Turner, Robert E.; and Camp, Dennis W.,3,465,584.
Camp, Ernest L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,464,012.
Camp, George D. Method of geoboring. 3,422,912, 1-21-69, Cl. 175-40.
Camp, Henry R.; and Polivka, Emil P., to Westinghouse Electric Corporation. Resin encapsulated, a compression bonded disc-type semiconductor device. 3,443,168, 5-6-69, Cl. 317-234.
Camp, Paul R., to United States of America, Army. Method for producing predetermined crystal structures. 3,452,549, 7-1-69, Cl. 62-58.
Camp, Roger C., to Iowa State University Research Foundation, Inc. Variable reluctance head. 3,487,388, 12-30-69, Cl. 340-174.1
Camp, Thomas R., to Chicago Bridge & Iron Company. Ceramic filter bottom directly supporting media. 3,468,422, 9-23-69, Cl. 210-274.
Camp, Vernon W.: *See—*
Leach, Pembroke O.; Jackson, William P.; and Camp, Vernon W.,3,423,563.
Camp, William W., to Heinemann Electric Company. Arcing grid case support means. 3,422,235, 1-14-69, Cl. 200-147.
Campagna, Philip J., to Allied Chemical Corporation. Oil-modified alkyd emulsion coatings. 3,440,193, 4-22-69, Cl. 260-2.
Campagnuolo, Carl J., to United States of America, Army. High impedance digital amplifier. 3,426,783, 2-11-69, Cl. 137-81.5
Campagnuolo, Carl J., to United States of America, Army. Aircraft control system. 3,430,895, 3-4-69, Cl. 244-78.
Campagnuolo, Carl J.; and Sieracki, Leonard M., to United States of America, Army. Pneumatic airfoil actuated amplifier. 3,447,553, 6-3-69, Cl. 137-81.5
Campagnuolo, Carl J.: *See—*
Kirshner, Joseph M.; and Campagnuolo, Carl J.,3,452,771.
Sieracki, Leonard M.; Campagnuolo, Carl J.; and Blodgett, Francis E.,3,444,876.
Warren, Raymond W.; Campagnuolo, Carl J.; and Fine, Jonathan E.,3,442,124.
Campaigne, Ernest E.; and Weddleton, Richard F.Succinimido-[3,4-b] indan-8-ones and process. 3,453,287, 7-1-69, Cl. 260-326.5
Campana, Nicholas L.; Campano, Frank J.; and Lombardi, Louis F., to Custom Alarm and Manufacturing Co. Alarm system. 3,486,166, 12-23-69, Cl. 340-5.
Campanella, Angelo J., to Industrial Nucleonics Corporation. Indicating system. 3,458,159, 7-29-69, Cl. 244-1.
Campanella, Matthew J., to United States of America, Army, mesne. Self-synchronizing tunnel diode and circuit. 3,453,447, 7-1-69, Cl. 307-206.
Campanelli, John P.: *See—*
Anderson, Russell H.; and Campanelli, John P.,3,454,690.
Campanini, Sergio, to Berg Mfg. & Sales Co. Electric-pneumatic brake system. 3,482,885, 12-9-69, Cl. 303-7.
Campano, Frank J.: *See—*
Campana, Nicholas L.; Campano, Frank J.; and Lombardi, Louis F.,3,486,166.
Campbell, Alan M.: *See—*
Works, John D.; White, Donald H.; and Campbell, Alan M.,3,453,932.
Campbell, Alastair; and Roberts, Hugh Leithead, to Imperial Chemical Industries Limited. Manufacture of pyridine. 3,478,034, 11-11-69, Cl. 260-290.
Campbell, Alfred D., to Standard Brands Incorporated. Method of making dusting starch. 3,467,543, 9-16-69, Cl. 117-100.
Campbell, Arthur W., to Vego Chemical Corporation. Detergent composition. 3,441,510, 4-29-69, Cl. 252-153.
Campbell Auto-Pour Engineering: *See—*
Campbell, James Samuel; and Willis, Wilfred Ernest, 3,445,041.
Campbell, Charles R.: *See—*
Maloney, Jim N., Jr.; Campbell, Charles R.; and Johnson, Robert,3,457,152.
Campbell, Charles R.; Hicks, John J., Jr.; and Mathews, Marion J., III, to Monsanto Company. Process for upgrading an acrylonitrile electrohydrodimerization effluent containing adiponitrile by distillation and alkaline treatment. 3,429,783, 2-25-69, Cl. 203-36.
Campbell, Clarence E.: *See—*
Harrington, Herbert A.; Dickey, John W.; Allen, William M.; Butz, Carl C.; and Campbell, Clarence E.,3,485,230.
Campbell, Clyde D.: *See—*
Cross, James M.; Campbell, Clyde D.; and Metzger, Sidney H.,3,450,759.
Cross, James Martin; Metzger, Sidney H., Jr.; and Campbell, Clyde D.,3,454,505.

Campbell, Craig C., to Mobil Oil Corporation. Acetone-formaldehyde and phenol-acetone- formaldehyde resins extended with animal blood or soy flour and oil-in-water emulsion. 3,471,420, 10-7-69, Cl. 260-7.
Campbell, Daniel H., to United Aircraft Corporation. Method of making a rocket nozzle. 3,485,290, 12-23-69, Cl. 164-105.
Campbell, David H., to Lockheed Aircraft Corporation. Supersonic inlet for jet engines. 3,477,455, 11-11-69, Cl. 137-15.1
Campbell, David J.: *See—*
Davis, Martin A.; and Campbell, David J.,3,436,397.
Davis, Martin A.; and Campbell, David J.,3,436,398.
Campbell, David Robert, to Du Pont de Nemours, E. I., and Company. Process for improving dimensional stability of tensilized polyester film. 3,461,199, 8-12-69, Cl. 264-289.
Laliberte, Real; and Campbell, David,3,455,984.
Campbell, Donald Harvey, to Hooker Chemical Corporation. Process for coating metal surfaces. 3,462,319, 8-19-69, Cl. 148-6.16
Campbell, Donald H.: *See—*
Baranauckas, Charles F.; Campbell, Donald H.; and Carr, Russell L. K.,3,448,148.
Campbell, Donald J., to Chicago Musical Instrument Co. Frequency doubler and coupler for electronic music generation systems. 3,443,463, 2-3-69, Cl. 84-1.01
Campbell, Donald J., to Chicago Musical Instrument Co. Reiteration, percussion and speaking tone effects in electronic music generation. 3,467,759, 9-16-69, Cl. 84-1.25
Campbell, Donald J., to Chicago Musical Instrument Co. Conversion of tonal character of aural signals. 3,476,863, 11-4-69, Cl. 84-1.01
Campbell, Donald K., Jr. Positive displacement internal combustion engine. 3,439,654, 4-22-69, Cl. 123-12.
Campbell, Douglas Gordon. Cartridge holding hair grooming device. 3,476,124, 11-4-69, Cl. 132-147.
Campbell, Dudley H., to Stackpole Components Company. Electrical control with insulating shaft bushing. 3,486,157, 12-23-69, Cl. 338-197.
Campbell, Duncan B., to General Motors Corporation. Electric drive motor logic control system. 3,477,002, 11-4-69, Cl. 318-227.
Campbell, Elwood C., to International Business Machines Corporation. Bearing retainer and mount. 3,481,655, 12-2-69, Cl. 308-26.
Campbell, Erwin A., to Moore, Lee C., Corporation. Apparatus for skidding a load on a support. 3,486,737, 12-30-69, Cl. 254-106.
Campbell, Everett W.: *See—*
Stachowiak, Robert W., Sr.; and Campbell, Everett W.,3,484,426.
Campbell, Gabe L.: *See—*
Eklund, Phillip R.; and Campbell, Gabe L.,3,470,720.
Campbell, George A., to Wallace & Tiernan Inc. System for controllably energizing and monitoring the normalcy of successively selectable electrical load devices. 3,457,453, 7-22-69, Cl. 315-88.
Campbell, George A., to Pennwalt Corporation. Electrical coded-pulse generator for marine signals. 3,475,619, 10-28-69, Cl. 307-40.
Campbell, George T. R.; and Laskey, Norman V., to Algoship International Limited, mesne. Contra-rotating propeller drive for surface and submarine vessels. 3,469,556, 9-30-69, Cl. 115-34.
Campbell, George T. R.; and Laskey, Norman V., to Algoship International Limited, mesne. Hull form of low length/breadth ratio. 3,481,295, 12-2-69, Cl. 114-57.
Campbell, George W., Jr.; Nies, Nelson P.; and Atteberry, Johnny C., to United States Borax & Chemical Corporation. Method for improving physical properties of boric oxide. 3,479,137, 11-18-69, Cl. 23-149.
Campbell, Gifford & Morton Limited: *See—*
Parfit, Raymond H., 3,438,426.
Campbell, Harold E. Counter drive movement apparatus. 3,470,765, 10-7-69, Cl. 74-665.
Campbell, Henry Fred, to Campbell Research Corporation. Building erection. 3,468,094, 9-23-69, Cl. 52-742.
Campbell, Iain Brown, to Babcock & Wilcox, Limited. Liquid fuel burners. 3,446,439, 5-27-69, Cl. 239-419.3
Campbell, Ian P.: *See—*
Scherr, Robert E.; McHose, Andre H.; Campbell, Ian P.; and / Bryan, Carney J.,3,448,705.
Campbell, J Allan; and Babcock, John C., to Upjohn Company, The. 2-Piperidylglycol ketals of steroidal compounds. 3,466,276, 9-9-69, Cl. 260-239.55
Campbell, Jackson E.; and Thomsen, Erich. Apparatus for reducing shells in outer-curve rails. 3,469,784, 9-30-69, Cl. 238-287.
Campbell, James D., III: *See—*
Cillag, John R.; and Campbell, James D., III,3,432,421.
Gustafson, Wilbur E.; Chase, Walter M.; Lievens, James L.; and Campbell, James D.,3,454,949.
Campbell, James Kermit, to Dow Corning Corporation. Organosiloxane-containing finishes for organic fibers. 3,423,235, 1-21-69, Cl. 117-138.8
Campbell, James K., to Dow Corning Corporation. Antistatic lubricant as a process finish for synthetic fibers. 3,423,314, 1-21-69, Cl. 252-8.6
Campbell, James K.; and Clark, Harold A., to Dow Corning Corporation. Aminoalkyl silicone glass lubricant. 3,460,216, 8-12-69, Cl. 28-75.
Campbell, James K.; and Richter, Roberta C., to Dow Corning Corporation. Polyamide and polyester fabrics treated with isocyanate functional siloxanes. 3,485,661, 12-23-69, Cl. 117-138.8
Campbell, James R.: *See—*
Boynton, William Wentworth; Campbell, James R.; and Nisewanger, Carrol R.,3,421,301.
Campbell, James R. Honeycomb core panel mounting and connecting system. 3,476,422, 11-4-69, Cl. 287-189.36
Campbell, James Samuel. Molten metal charging means for a furnace. 3,472,942, 10-14-69, Cl. 13-33.
Campbell, James Samuel; and Willis, Wilfred Ernest, said Campbell assor. to Campbell Auto-Pour Engineering. Liquid dispensing assembly with improved filling means. 3,445,041, 5-20-69, Cl. 222-152.
Campbell, Jean K., to USM Corporation. Means for making pellets, particularly explosive pellets. 3,430,532, 3-4-69, Cl. 86-1.
Campbell, John H.; and Kershaw, Delmar D., to General Electric Company. Low pressure electric discharge lamp electrode. 3,448,318, 6-3-69, Cl. 313-212.
Campbell, John M.; and Miller, Arthur J., to Carrier Corporation. Inlet casing assembly for turbomachine. 3,476,487, 11-4-69, Cl. 415-134.
Campbell, John Robert, to Monsanto Company. Mixed polyphenyl ethers-thioethers. 3,426,075, 2-4-69, Cl. 260-609.
Campbell, John Robert, to Monsanto Company. Phenoxy bis(phenylmercapto)benzenes. 3,452,101, 6-24-69, Cl. 260-609.
Campbell, John Robert; and Hatton, Roger E., to Monsanto Company. Polyphenyl thioethers. 3,450,770, 6-17-69, Cl. 260-609.
Campbell, John Stewart, to Imperial Chemical Industries Limited. Process for producing hydrogen peroxide and an alkali metal perborate. 3,433,582, 3-18-69, Cl. 23-60.
Campbell, Kenneth K., Jr.; and Meyer, Heinrich F., to General Electric Company. Methods and apparatus for fixing interface pins in electrical circuit boards. 3,484,937, 12-23-69, Cl. 29-630.
Campbell, Kenneth: *See—*
Moss, Ronald; Campbell, Kenneth; and Griffiths, Samuel T.,3,481,866.
Campbell, Lloyd B. Temperature indicator. 3,437,070, 4-8-69, Cl. 116-114.
Campbell, Louis T., III, to National Steel Corporation. Metallurgical vessel and supporting ring structure. 3,455,545, 7-15-69, Cl. 266-36.
Campbell, Mark E., to North American Rockwell Corporation. Pattern recognition system employing time- sequence signals. 3,436,547, 4-1-69, Cl. 250-203.
Campbell, Max L. Door alarm. 3,425,386, 2-4-69, Cl. 116-87.
Campbell, Paul K., to Anderson Electric Corporation. Electrical connector cover. 3,484,541, 12-16-69, Cl. 174-138.
Campbell, Phillip J.: *See—*
Vanderborgh, George H., Jr.; and Campbell, Phillip J.,3,486,486.
Campbell, Ramsey G.; and Oldenburg, Charles C., to Colonial Sugar Refining Company Limited, The, mesne. Electrodialysis of sugar phosphorylation reaction solutions. 3,472,750, 10-14-69, Cl. 204-180.
Campbell, Ramsey G.; Oldenburg, Charles C.; and Simone, Raymond A., to Colonial Sugar Refining Company Limited, The. Process for preparing phosphate esters of carbohydrates. 3,437,652, 4-8-69, Cl. 260-234.
Campbell Research Corporation: *See—*
Campbell, Henry Fred, 3,468,094.
Campbell, Rex C.; and McDowell, Earle B., to General Electric Company. Synchronizer for register control. 3,428,877, 2-18-69, Cl. 318-85.
Campbell, Richard S. Multi-base counter mechanism. 3,436,013, 4-1-69, Cl. 235-74.
Campbell, Robert A.: *See—*
Viens, George E.; Campbell, Robert A.; Banks, George N.; Sachdeva, Roshan L.; and Sirianni, Guy V.,3,441,651.
Campbell, Robert Edward, to British Ropes Limited. Rope, strand or the like. 3,425,207, 2-4-69, Cl. 57-145.
Campbell, Robert F.: *See—*
Lichti, Robert D., 3,424,321.
Campbell, Robert H.: *See—*
Belak, Steven G.; and Campbell, Robert H.,3,458,303.
Campbell, Robert L.: *See—*
Bell, Richard J.; Campbell, Robert L.; Brust, Albert E.; and Custer, Lloyd R.,3,455,699.
Campbell, Robert L., to United Aircraft Products, Inc. Tubular heat exchanger with thermostatic valve. 3,420,293, 1-7-69, Cl. 165-39.
Campbell, Robert L. Noncurling floor protector. 3,427,705, 2-18-69, Cl. 29-449.
Campbell, Robert N., Jr.; and Williams, John H., to Sea-Land Service, Inc. Container safety guide for containership loading and unloading. 3,426,878, 2-11-69, Cl. 193-38.

Campbell, Robert W.; and Heiny, Arza D., to General Motors Corporation. Vibration dampener for dynamoelectric machine claw-tooth rotors. 3,445,694, 5-20-69, Cl. 310-51.
Campbell, Rollin E.; and Forse, Harry D. Pressing machine. 3,463,367, 8-26-69, Cl. 223-57.
Campbell, Rollin E.; and Forse, Harry D. Sleeve pressing apparatus. 3,484,821, 12-16-69, Cl. 223-73.
Campbell, Ronald, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Extrusion apparatus. 3,447,203, 6-3-69, Cl. 18-14.
Campbell, Rouel R. Film transport apparatus. 3,454,334, 7-8-69, Cl. 352-191.
Campbell, Roy: *See*—
Green, Martin; and Campbell, Roy,3,459,458.
Campbell, Ruth A. Automobile rear deck bag. 3,473,713, 10-21-69, Cl. 224-42.01
Campbell, Sidney Glenroy: *See*—
Harding, John; Placzek, Peter; and Campbell, Sidney Glenroy,3,477,352.
Campbell Soup Company: *See*—
Hutchinson, Edmund C., 3,420,036.
Hutchinson, Edmund C., 3,472,722.
Ramsay, Joseph D., 3,448,778.
Weeks, Richard C., 3,432,310.
Campbell, Stephen P., Jr.: *See*—
Ray, Richard W.; and Campbell, Stephen P., Jr.,3,450,319.
Campbell, Thomas J., to Radio Corporation of America. Oscillator using a transistor as voltage controlled capacitance. 3,422,369, 1-14-69, Cl. 331-36.
Campbell, Trevor G., to Caterpillar Tractor Company. Ejector mechanism for loader buckets. 3,426,928, 2-11-69, Cl. 214-767.
Campbell, Trevor G., to Caterpillar Tractor Company. Swing away cutting edge for ejector buckets. 3,433,377, 3-18-69, Cl. 214-767.
Campbell, Trevor G., to Caterpillar Tractor Company. Loader lift linkage. 3,464,574, 9-2-69, Cl. 214-776.
Campbell, Trevor G., to Caterpillar Tractor Company. Control system for an ejector bucket. 3,484,010, 12-16-69, Cl. 214-767.
Campbell, Trevor G., to Caterpillar Tractor Company. Pivoted cutting edge for earthmoving scrapers. 3,486,254, 12-30-69, Cl. 37-129.
Campbell, Trevor G.; Coogan, Lawrence P.; and Hosoda, Yoshimi, to Caterpillar Tractor Company. Push-pull coupling for tractor-scraper units. 3,434,738, 3-25-69, Cl. 280-477.
Campbell, Trevor G.; Eftefield, Larry G.; and Moser, Raymond L., to Caterpillar Tractor Company. Baffle apparatus for self-loading scrapers. 3,474,547, 10-28-69, Cl. 37-8.
Campbell, Trevor G.; Lichti, Robert W.; and Liess, Richard K., to Caterpillar Tractor Company. Self-loading scraper with elevator mounting coupled to ejection means. 3,452,458, 7-1-69, Cl. 37-8.
Campbell, Vernon R., to L & L Manufacturing Company. Fluid pressure coupling. 3,438,655, 4-15-69, Cl. 285-158.
Campbell, Vernon R., to L & L Manufacturing Company. Tube coupling. 3,453,009, 7-1-69, Cl. 285-341.
Campbell, Victor H., to Sylvania Electric Products, Inc. Color temperature stabilization in color receivers. 3,479,449, 11-18-69, Cl. 178-5.4
Campbell, Whittington A., to Trailco Manufacturing & Sales Co. Retractable lock. 3,486,787, 12-30-69, Cl. 296-35.
Campbell, William B.; and Kingery, William D., to Lexington Laboratories, Inc. Preparation of alumina crystals from a vapor phase reaction by monitoring the spectral scattering of light. 3,449,071, 6-10-69, Cl. 23-142.
Campbell, William B.; and Schaffer, Philip S., to Lexington Laboratories, Inc. Epitaxially coating ruby with doped alumina. 3,449,147, 6-10-69, Cl. 117-33.3
Campbell, William G., to Barber-Colman Company. Drive mechanism for a machine tool. 3,453,931, 7-8-69, Cl. 90-4.
Campbell, William Henry: *See*—
Crawley, John; Saunders, Alan; Milne, Alistair; and Campbell, William Henry,3,431,825.
Campbell, William Henry; and Pennell, John Antony, to Vickers Limited. Sealing of high pressure vessels. 3,467,273, 9-16-69, Cl. 220-46.
Campbell, William H., to Lear Siegler, Inc. Chair support assembly. 3,462,190, 8-19-69, Cl. 297-85.
Campbell, William J. M., to Elkhart Bridge and Iron Company, Inc. Vehicle wheel suspension means. 3,481,623, 12-2-69, Cl. 280-124.
Campbell, William J. M., to Elkhart Bridge and Iron Company, Inc. Vehicle chassis construction. 3,481,643, 12-2-69, Cl. 296-28.
Campbell, William J. Electrolytic production of a protective coating on articles. 3,475,296, 10-28-69, Cl. 204-58.
Campbell, William W.; and Leatham, Earl, to Dresser Industries, Inc. Process for the production of caustic calcined magnesia. 3,429,664, 2-25-69, Cl. 23-201.
Campi, Anthony V.; Chapman, Robert E.; and Gray, Bruce H., to United States of America, Army. Coding device. 3,451,044, 6-17-69, Cl. 340-172.5
Campion, Donald C., Sr. Vented fluid valve. 3,459,212, 8-5-69, Cl. 137-312.
Campion, Edward J. Snow disposal unit with electrical melting means. 3,452,459, 7-1-69, Cl. 37-12.
Campion, Peter, to United Kingdom Atomic Energy Authority. Carbon-dioxide cooled, graphite-moderated nuclear reactor. 3,427,221, 2-11-69, Cl. 176-58.
Campo, James A., to Bell Telephone Laboratories, Incorporated. Thermocompression bonding of foil leads. 3,483,610, 12-16-69, Cl. 29-497.
Camras, Marvin, to IIT Research Institute. Video display system. 3,429,995, 2-25-69, Cl. 178-7.3
Camras, Marvin, to IIT Research Institute. Two speed tape transport with independent audio and video modes of operation. 3,449,528, 6-10-69, Cl. 179-100.2
Camras, Marvin, to IIT Research Institute. Erase head. 3,449,529, 6-10-69, Cl. 179-100.2
Camras, Marvin, to IIT Research Institute. Magnetic transducer head with single record winding and plural reproduce windings. 3,469,037, 9-23-69, Cl. 179-100.2
Camras, Marvin, to IIT Research Institute. Color television camera with single scanning beam. 3,484,546, 12-16-69, Cl. 178-5.4
Camson Manufacturing Company, The: *See*—
Tims, Fred W., Jr., 3,478,427.
Canada, Frank A. Brakeshoe punching apparatus. 3,485,129, 12-23-69, Cl. 83-454.
Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence: *See*—
Wright, Jerauld George, 3,453,619.
Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence: *See*—
Stubbs, Royston A.; and Kidd, Derek J., 3,457,393.
Canada Iron Foundries Limited: *See*—
Mahy, Raymond Marcel; and Tyler, William J., 3,470,970.
Stewart, John K., 3,426,697.
Stewart, John K., 3,430,578.
Stewart, John K., 3,459,135.
Canada, James R., to Mobil Oil Corporation. Treating inhomogeneous subterranean formations. 3,430,701, 3-4-69, Cl. 166-269.
Canada Packers Limited: *See*—
Koh, Teow Yan, 3,482,014.
Okany, Antonia, 3,436,413.
Teasdale, Barton F., 3,443,967.
Canadair Limited: *See*—
Huvers, Marius E., 3,469,102.
Kurdyla, Nicholas, 3,435,332.
Canaday, James A.: *See*—
Wiley, Carl A.; Canaday, James A.; Loeschen, Herbert C.; and Gaston, James B.,3,450,869.
Canade, George F.: *See*—
Carder, Frank B.; Wright, Robert; Canade, George F.; and Stein, Daniel,3,472,175.
Canadelli, Luciano. Asynchronous single-biphase motor with power and polarity switching. 3,440,510, 4-22-69, Cl. 318-224.
Canadelli, Luciano. Bi-phase and single-phase motor with polarity switching. 3,463,988, 8-26-69, Cl. 318-224.
Canadian Breweries, Limited: *See*—
Schaus, Orland O., 3,436,226.
Schaus, Orland Otto; and Papadopoulos, Antonios, 3,437,490.
Canadian Bronze Company Limited: *See*—
Horsey, Sydney F.; and Tyler, William J. L., 3,432,097.
Canadian General Electric Company Limited: *See*—
Davidson, William Theodore, 3,428,779.
Eastcott, Peter de Hertel, 3,458,151.
Eastcott, Peter de Hertel, 3,463,414.
Eastcott, Peter de Hertel, 3,472,439.
Gaensbauer, Herbert A.; and Elgar, Everett C., 3,436,579.
Hanes, Glenn M., 3,450,826.
Howard, John F., 3,423,712.
Howard, John F., 3,454,917.
Lafforgue, Jean-Claude Rene, 3,440,403.
MacKay, Ian Norton, 3,428,523.
Maltarp, Robert K., 3,423,103.
Canadian Industries Limited: *See*—
Falconer, Errol Linton, 3,421,954.
Hoey, Gordon Randolph, 3,442,779.
Jones, Elwyn David, 3,482,762.
Jones, Elwyn David, 3,485,145.
Kelly, Cornelius James Noel; and Knott, Robert Franklin, 3,431,154.
Miller, Roger M.; Mueller, Bruno; and Sorochan, Walter G., 3,446,884.
Murdock, James David; and Sharp, John Arthur, 3,463,746.
Sharp, John Arthur, 3,440,189.
Shaw, Richard; and Wood, James K., 3,455,648.
Sikora, Josef, 3,480,650.
Trudel, Gerald Joseph, 3,433,809.
Wood, Herbert Holden, 3,464,005.
Canadian Ingersoll-Rand Company Limited: *See*—
Delcellier, Henri A.; and Mills, Phillip J., 3,448,858.
Trollope, William G. A., 3,477,548.
Young, Douglas L. G., 3,458,038.

Canadian International Paper Company: *See*—
Cranford, William B.; Petricola, Anthony J.; and McLeod, Murray J., 3,475,269.
Hamilton, Douglas D., 3,482,611.
Ingruber, Otto V., 3,471,393.
Kalisch, John H., 3,479,249.
Latter, Lionel E., 3,464,367.
Lee, Charles Allen; and Murphy, James A., 3,445,331.
MacDonald, Donald M., 3,464,840.
Murphy, James A., 3,430,629.
Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, 3,472,504.
Murphy, James A.; Watkins, Cecil H.; Dewhurst, Ernest James; and Engel, Carl, 3,473,694.
Nystrand, Ernst Daniel, 3,473,800.
Read, Dale W., 3,448,096.
Canadian Marconi Company: *See*—
Broadbent, Norman; and Read, Kenneth G., 3,435,348.
Canadian Patents and Development Limited: *See*—
Ashbrook, Allan W.; Ritcey, Gordon M.; and Joe, Edwin G., 3,455,680.
Blachut, Theodore J.; and Smialowski, Antoni J., 3,465,444.
Blachut, Theodore J.; Schut, Gerhardus H.; and Smialowski, Antoni J., 3,486,820.
Bleackley, William J., 3,463,894.
Bleackley, William J.; and Cumming, William A., 3,465,114.
Bleackley, William J., 3,466,415.
Bloom, Myer; Enga, Eric; and Lew Hin, 3,484,603.
Capes, Charles E.; Sutherland, John P.; and Mc Ilhinney, Allan E., 3,471,267.
Cohen, Morris; and Sewell, Peter B., 3,466,234.
Cox, Clarence D., 3,422,347.
Creighton, Stephen Mark; and Wood, John Charles T., 3,468,943.
Cumming, William A.; and Bleackley, William J., 3,456,355.
Cumming, William A., 3,457,385.
Dauphinee, Thomas M., 3,474,330.
Godby, Ensley A.; Baker, Ralph C.; and Strome, Murray W., 3,432,751.
Goodman, Ronald H.; Bettens, Arsene H.; and Josling, Clifford A., 3,476,939.
Helfrich, Wolfgang; and Schneider, William G., 3,457,153.
Mac Martin, Malcolm Pearson; and Kusters, Norbert Leo, 3,484,691.
Makow, David M., 3,479,588.
Moore, Arthur D., 3,470,471.
Redhead, Paul Aveling, 3,465,189.
Smyth, Henry Lyall Ross, 3,431,481.
Spencer, John Francis Theodore; Tulloch, Alexander Patrick; and Gorin, Philip Albert James, 3,445,337.
Stedman, Donald F., 3,449,135.
Stoessl, Albert, 3,475,459.
Viens, George E.; Campbell, Robert A.; Banks, George N.; Sachdeva, Roshan L.; and Sirianni, Guy V., 3,441,651.
Canadian Seating Company Limited: *See*—
Brunskole, Josef H., 3,443,835.
Canadian Stackpole Ltd.: *See*—
Caulford, Donald Alexander; and Phin, James R., 3,450,586.
Canadian Vickers Limited: *See*—
Dyke, Stanley J.; and Tartavel, Marcel L., 3,472,169.
Canadian Westinghouse Company, Limited: *See*—
Blythe, Allan L., 3,477,014.
Hands, Edward; and Henstock, Graham, 3,469,112.
Jewell, George S., 3,423,590.
Simpson, Robert G.; Luker, Ronald J.; and Jewell, George S., 3,479,513.
Canady, Arthur R., to Caterpillar Tractor Company. Friction welded internally cooled piston. 3,485,143, 12-23-69, Cl. 92-176.
Canale, Michael A. Vacuum frame and improvements for vacuum frames. 3,420,608, 1-7-69, Cl. 355-91.
Canalizo, Carlos R., to Otis Engineering Corporation. Gas lift valve. 3,426,786, 2-11-69, Cl. 137-155.
Canalizo, Carlos R., to Otis Engineering Corporation. Gas lift valve. 3,476,135, 11-4-69, Cl. 137-155.
Canalizo, Carlos R., to Otis Engineering Corporation. Fluid powered timing device. 3,478,645, 11-18-69, Cl. 91-335.
Canavan, Daniel M.Artist's easel and carrying case. 3,476,456, 11-4-69, Cl. 312-231.
Canavan, John J.; Gawrylowicz, Henry; Buckley, William J., Jr.; and Johns, William, to United States of America, Army. Fuel-oxidizer injection. 3,430,863, 3-4-69, Cl. 239-412.
Canavesi, Roberto: *See*—
Aglietti, Giancarlo; and Canavesi, Roberto,3,478,121.
Canceill, Bernard Jean-Jacques, to International Standard Electric Corporation. Magnetic closure and switch for doors and similar devices. 3,426,166, 2-4-69, Cl. 200-61.62
Cancilla, Frank F., Jr. Centrifugal axle clutch. 3,426,877, 2-11-69, Cl. 192-105.
Cancilla, Vincent W., to Beloit Corporation. Two pipe disc refiner. 3,438,586, 4-15-69, Cl. 241-146.
Cancrinus, Hendrik: *See*—
Freidmann, Eric Helmuth; Trembath, Timothy Richard; Cancrinus, Hendrik; and Fourie, Philip John,3,425,298.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John,3,425,297.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John,3,449,983.
Cancro, Ciro A., to United States of America, National Aeronautics and Space Administration. Low power drain semi-conductor circuit. 3,426,219, 2-4-69, Cl. 307-268.
Candioto, Donny W.: *See*—
Quinn, Richard M.; and Candioto, Donny W.,3,428,819.
Candle Corporation of America: *See*—
Kayne, Marvin L., 3,473,014.
Candlin, John Paton; and Janes, William Henry, to Imperial Chemical Industries, Limited. Olefin production. 3,436,431, 4-1-69, Cl. 260-666.
Candor, James T.: *See*—
Candor, Robert R.; and Candor, James T.,3,447,174.
Candor, Robert R.; and Candor, James T.,3,470,716.
Candor, Robert R.; and Candor, James T. Laundry apparatus or the like. 3,447,174, 6-3-69, Cl. 8-158.
Candor, Robert R.; and Candor, James T. Electrostatic apparatus. 3,470,716, 10-7-69, Cl. 68-4.
Candy Equipment Company: *See*—
Kinney, David J.; Fagg, Jack R.; and Smith, Donald P., 3,452,689.
Candy Mfg. Co., Inc.: *See*—
Hendershot, Robert V., 3,465,269.
Cane, Albert Leslie. Ball game apparatus including a playing area and movable pieces selectively movable along said playing area. 3,428,316, 2-18-69, Cl. 273-85.
Cane, Nicholas William; and Rushton, William, to Lightning Fasteners Limited. Methods and apparatus for making staples. 3,446,009, 5-27-69, Cl. 59-75.
Canegallo, Giovanni, to Welwyn Electric Limited. Oxide film resistor. 3,469,227, 9-23-69, Cl. 338-262.
Canepa, Michele, to Olivetti-General Electric S.p.A., mesne. Magnetic transfluxor matrix information storage device. 3,434,129, 3-18-69, Cl. 340-174.
Canevari, Roger: *See*—
Regnie, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel,3,457,263.
Regnier, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel,3,435,036.
Canfield, Albert A. Switch assembly. 3,486,151, 12-23-69, Cl. 337-81.
Canfield, Brett J., 75% to Graham, John M. 25% to Neill, Elvin D. Safety and parking vehicle braking device. 3,425,221, 2-4-69, Cl. 60-54.5
Canfield, Dale Kelley: *See*—
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley,3,444,863.
Canfield, Eugene B., to General Electric Company. Accelerometer. 3,479,886, 11-25-69, Cl. 73-516.
Canfield, Sheldon A.: *See*—
Underwood, John T.; Palmer, Burton M.; Canfield, Sheldon A.; and Pitt, Richard E.,3,467,739.
Canivez, Etienne Jean Baptiste Edouard, to Houilleres du Bassin du Nord et du Pas-de-Calais. Device for removing, replacing and applying coke- oven cell sealing plugs on their seats. 3,437,563, 4-8-69, Cl. 202-262.
Cann, Gordon L., to Electro-Optical Systems, Inc. Method and apparatus for containing a plasma produced by opposed electrodes. 3,452,249, 6-24-69, Cl. 315-111.
Cann, Gordon L., to Xerox Corporation, mesne. Method and apparatus for electromagnetically containing a plasma. 3,467,885, 9-16-69, Cl. 315-111.
Cann, Gordon L.; and Harder, Robert L., to Xerox Corporation. Plasma containment apparatus with ion cyclotron resonance heating. 3,437,871, 4-8-69, Cl. 315-111.
Cann, Gordon L.; and Harder, Robert L., to Xerox Corporation. Plasma arc electrodes with anode heat shield. 3,449,628, 6-10-69, Cl. 315-111.
Cann, Gordon L.; and Harder, Robert L., to Xerox Corporation. Multi-level vacuum pumping system for plasma containment device. 3,453,469, 7-1-69, Cl. 313-7.
Cann, Gordon L.; and Harder, Robert L., to Xerox Corporation. Plasma arc electrodes. 3,453,474, 7-1-69, Cl. 313-161.
Cann, Gordon L.; and Harder, Robert L., to Xerox Corporation, mesne. Plasma arc electrodes. 3,453,488, 7-1-69, Cl. 315-111.
Cann, Gordon L.; and Harder, Robert L., to Xerox Corporation. Multiple anode electrode assembly. 3,453,489, 7-1-69, Cl. 315-111.
Cann, Gordon L.; Harder, Robert L.; and Jacobs, Paul F., to Xerox Corporation. Plasma energy extraction. 3,462,622, 8-19-69, Cl. 310-11.
Cann, James Roosevelt. Toilet tissue holder & bowl brush. 3,429,474, 2-25-69, Cl. 220-20.

Cannady, Samuel J.; Fisher, Donald C.; and Hamilton, Vern E., to McDonnell Douglas Corporation, mesne. Microscopic examining apparatus utilizing scann- ing techniques. 3,449,053, 6-10-69, Cl. 356-178.
Cannell, Lawrence G.: *See—*
Magoon, Eugene F.; Cannell, Lawrence G.; and Raley, John H.,3,483,269.
Cannell, Lawrence; Magoon, Eugene F.; and Raley, John H., to Shell Oil Company. Olefin oligomerization. 3,424,815, 1-28-69, Cl. 260-683.15
Cannelongo, Joseph Frederick, to American Cyanamid Company. Flame retardant compositions for plastics. 3,422,047, 1-14-69, Cl. 260-28.5
Cannelongo, Joseph Frederick, to American Cyanamid Company. Flame retardant compositions for plastics. 3,422,048, 1-14-69, Cl. 260-28.5
Canner, Herman M. Conveyorized die casting machine having biasing and ejection apparatus. 3,470,940, 10-7-69, Cl. 164-269.
Canning, Thomas F.; Rooney, John A. P.; and Phillips, Frank L., to American Potash & Chemical Corporation, mesne. Process for removing impurities from a fluid stream. 3,436,344, 4-1-69, Cl. 210-39.
Canning, Thomas N., to United States of America, National Aeronautics and Space Administration. Shock-layer radiation measurement. 3,452,872, 7-1-69, Cl. 210-217.
Canning, Thomas N., to United States of America, National Aeronautics and Space Administration. Hypervelocity gun. 3,465,638, 9-9-69, Cl. 89-8.
Canno, Leonard E.; and Grob, William H. F., to Equitable Paper Bag Co., Inc. Bag with box-like top closure. 3,447,736, 6-3-69, Cl. 229-54.
Canno, Leonard E.; and Grob, William H. F., to Equitable Paper Bag Co., Inc. Handle construction for carrier box bag. 3,464,620, 9-2-69, Cl. 229-54.
Cannon, Charles R., to Aerojet-General Corporation. Cellulose acetate membranes. 3,460,683, 8-12-69, Cl. 210-500.
Cannon, Charles R.; Cantor, Paul A.; and King, Willam M., to Aerojet-General Corporation. Process for the manufacture of a reverse osmosis membrane having a non-heating annealing step. 3,432,584, 3-11-69, Cl. 264-49.
Cannon, Craig W., to Allis-Chalmers Manufacturing Company. Track roller seal. 3,420,584, 1-7-69, Cl. 308-36.2
Cannon, Craig W., to Allis-Chalmers Manufacturing Company. Hydraulic transmission system for driving steerable wheels of a motor vehicle. 3,446,305, 5-27-69, Cl. 180-43.
Cannon, Craig W., to Allis-Chalmers Manufacturing Company. Hydraulic motor driven steerable wheel. 3,469,648, 9-30-69, Cl. 180-43.
Cannon, Cyril G.; Davies, Barrie L.; Selwood, Alan; and Williams, Roy A., to British Nylon Spinners Limited. Continuous filament yarns. 3,468,117, 9-23-69, Cl. 57-140.
Cannon, Cyril G.; Selwood, Alan; Davies, Barrie L.; and Williams, Roy A., to British Nylon Spinners Limited. Yarns of polymeric material and a process and apparatus for making same. 3,486,318, 12-30-69, Cl. 57-34.
Cannon, David R., to Reynolds Metals Company. Apparatus for developing a cylinder. 3,435,748, 4-1-69, Cl. 95-89.
Cannon, Don L.: *See—*
Trapp, Orlin D.; and Cannon, Don L.,3,479,862.
Cannon, Edwin Q., Jr.: *See—*
Yauney, Lloyd R.; Rider, Rowland W.; and Cannon, Edwin Q., Jr.,3,461,586.
Cannon, Ernest W.; and Byrens, David W., 16 2/3% to Aitken, James B. Collin, Charles B. Shapiro, David F., and Koo, Jack C. T. Space divider. 3,463,218, 8-26-69, Cl. 160-135.
Cannon, Henry T., Jr.: *See—*
Buice, Joel B.; and Cannon, Henry T., Jr.,3,475,659.
Cannon, Howard E.: *See—*
Standaart, Adrian W., 3,474,458.
Cannon, John Berkman, Jr.; and Eliot, Warner Ayres, to HRB-Singer, Inc. Nonlinear function generator. 3,454,786, 7-8-69, Cl. 307--229
Cannon, Lester E.; Tindall, John M.; and Taylor, Howard N., to Folding Cartons, Inc. Packaging apparatus. 3,474,594, 10-28-69, Cl. 53-186.
Cannon Mills Company: *See—*
Harkey, Johnny D., 3,434,504.
Harkey, Johnny D., 3,463,198.
Holland, Victor B.; Propst, Merton C., Jr.; and Wyatt, Harold W., 3,425,788.
Moritz, Werner; and Ridenhour, Joseph C., 3,468,694.
Cannon, Richard L.; and Morse, Charles M., to Dale Electronics, Inc. Player piano tracking and transpose system. 3,444,770, 5-20-69, Cl. 84-139.
Cannon, Richard; and Morse, Charles M., to Dale Electronics, Inc. Player piano key actuating solenoid valve assembly. 3,426,304, 2-4-69, Cl. 335-255.
Cannon, Robert H.: *See—*
Smith, Eugene E.; and Cannon, Robert H.,3,459,082.
Cannon, Robert W. Incubator egg tray. 3,470,851, 10-7-69, Cl. 119-43.
Cannon, William A.: *See—*
Toy, Madeline S.; Cannon, William A.; English, William David; and Berger, Carl,3,427,207.
Cannon, William N., to Lilly, Eli, and Company. Synergistic combination containing an oxiodinium compound and bis-(3,5,6-trichloro-2- hydroxyphenyl)methane. 3,428,736, 2-18-69, Cl. 424-340.
Cannon, William N., to Lilly, Eli, and Company. Synergistic combination containing an oxiodinium compound and 3,4,4'-trichlorocarbanilide. 3,435,119, 3-25-69, Cl. 424-322.
Cannon, William N.; and Gerzon, Koert, to Lilly, Eli, and Company. Method of controlling growth of algae with benzofurazans and benzofuranzan-1-oxides. 3,420,654, 1-7-69, Cl. 71-67.
Canny, Floyd H.; and Doll, Peter A., to SCM Corporation. Repeat carriage spacing mechanism for typewriters. 3,472,353, 10-14-69, Cl. 197-82.
Canoga Electronics Corporation: *See—*
Stegen, Robert J., 3,445,850.
Canon Camera Company, Incorporated: *See—*
Goshima, Takeshi, 3,479,943.
Iwata, Namio; Takahashi, Koichi; Sato, Isao; and Yanagisawa, Sizuyasu, 3,454,756.
Canon Camera Kabushiki Kaisha: *See—*
Goshima, Takeshi; and Takado, Koichi, 3,438,315.
Matsui, Yoshiya, 3,438,695.
Takano, Eiichi, 3,481,664.
Tanaka, Hiroshi; Takahashi, Shinkichi; Hasegawa, Tetsuo; and Sato, Toshihiko, 3,438,706.
Canon, Max D., to Thiokol Chemical Corporation. X-ray spectroscope assembly having an analyzer block composed of annealed pyrolytic graphite on an optically accurate surface. 3,424,428, 1-28-69, Cl. 250-51.5
Canonico, Domenic A.; Sakaguchi, Edwin M.; and Wellers, Charles A. W., to Atlas Chemical Industries, Inc. Electron beam welding of a thin metal foil in a sandwiched type arrangement. 3,458,683, 7-29-69, Cl. 219-121.
Canrad Precision Industries, Inc.: *See—*
Chilowsky, Constantin, 3,421,748.
Feuer, Irving, 3,478,209.
Goldman, William A., 3,437,600.
Cantalupo, Francis J.; and Setka, Raymond P., to Crane Co. Limit switches. 3,482,459, 12-9-69, Cl. 74-89.15
Cantarutti, Armindo: *See—*
Jones, Thomas C.; and Cantarutti, Armindo,3,428,510.
Cantarutti, Armindo, to NRM Corporation. Apparatus for severing tire ply stock and the like. 3,429,490, 2-25-69, Cl. 225-94.
Cantarutti, Armindo, to NRM Corporation. Tire building machine. 3,438,832, 4-15-69, Cl. 156-401.
Cantarutti, Armindo, to NRM Corporation. Tire curing press. 3,464,090, 9-2-69, Cl. 18-17.
Cantarutti, Armindo, to AMK Subsidiary Corporation, mesne. Tire mold construction. 3,479,693, 11-25-69, Cl. 18-17.
Cantarutti, Armindo; and Breza, Stephen F., to NRM Corporation. Sectional tire mold mechanism. 3,460,197, 8-12-69, Cl. 18-2.
Cantarutti, Armindo; and Breza, Stephen F., to NRM Corporation. Tire curing press. 3,484,898, 12-23-69, Cl. 18-17.
Turk, Leonard G.; Cantarutti, Armindo; and Breza, Stephen F.,3,461,502.
Cantatore, Giuseppe, to Montecatini Edison S.p.A. Solid polymonoolefin compositions having improved dye receptivity and new basic nitrogen polycondensates employed therein. 3,475,518, 10-28-69, Cl. 260-897.
Cantatore, Giuseppe; and Bonvicini, Alberto, to Montecatini Edison S.p.A. Polypropylene composition having improved dye receptively containing epichlorohydrin/diamine/ diphenol polycondensate. 3,454,670, 7-8-69, Cl. 260-837.
Canteen Corporation: *See—*
Breitenstein, Charles T.; Pearl, Donald C.; and Eliason, Walter A., 3,429,253.
Nickl, Franklyn George, 3,431,367.
Cantella, Richard C.: *See—*
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C.,3,474,977.
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C.,3,475,068.
Canteloube, Andre. Process and apparatus for the automatic manufacture of panels with integrated tube-circuits. 3,442,001, 5-6-69, Cl. 29-407.
Canter, George, to Security Fur Seal Co., Inc. Tamper-proof seal. 3,425,730, 2-4-69, Cl. 292-317.
Canter, James A., to General Motors Corporation. Variable speed control circuit for single phase alternating current induction type motors. 3,461,370, 8-12-69, Cl. 318-227.
Canterbury, Howard M. Automatic hydrant dripping apparatus. 3,446,226, 5-27-69, Cl. 137-62.
Canterbury, Howard M. In-line filter case. 3,447,687, 6-3-69, Cl. 210-232.

Canterino, Peter J.: *See—*
Goebel, George A.; and Canterino, Peter J.,3,435,019.
Cantlin, John H.: *See—*
Linke, Alvin W.; and Cantlin, John H.,3,435,682.
Cantor, Marshall: *See—*
Pitt, Howard; and Cantor, Marshall,3,440,459.
Pitt, Howard; and Cantor, Marshall,3,440,718.
Cantor, Paul A.: *See—*
Cannon, Charles R.; Cantor, Paul A.; and King, Willam M.,3,432,584.
King, William M.; and Cantor, Paul A.,3,444,286.
Cantrel, James F.: *See—*
Ditson, J. D.; and Cantrel, James F.,3,424,479.
Cantrel, Kenneth E.: *See—*
Reinert, Andrew J.; and Cantrel, Kenneth E.,3,474,175.
Reinert, Andrew J.; Blackwell, Jennings P.; and Cantrel, Kenneth E.,3,474,173.
Reinert, Andrew J.; Cantrel, Kenneth E.; and Cobb, Raymond L.,3,475,539.
Cantrell, Harry N.; and Couleur, John F. General Electric Company Data processing system including means for protect- ing predetermined areas of memory. 3,473,159, 10-14-69, Cl. 340-172.5
Cantrill, James E., to General Electric Company. Graft copolymers of polycarbonate on an addition polymer backbone. 3,461,187, 8-12-69, Cl. 260-873.
Cantrill, James E., to General Electric Company. Vinyl polymer grafts on polycarbonates. 3,462,515, 8-19-69, Cl. 260-873.
Cantwell, David B. Golf bag support. 3,435,866, 4-1-69, Cl. 150-1.5
Canty, Edgar P.; and Obszarny, Thedore J., to Guardian Electric Manufacturing Co. Mold for mounting switch blades and the like. 3,467,986, 9-23-69, Cl. 18-36.
Canulette, Walter N.: *See—*
Agnew, Stanley A.; and Canulette, Walter N.,3,446,935.
Canup, Robert E.; and Clinard, Ralph H., Jr., to Texaco Experiment Incorporated. Distance measuring between two points by the use of penetrative radiation. 3,483,371, 12-9-69, Cl. 250-43.5
Canute, Robert A.: *See—*
Gaska, Remigius A.; and Canute, Robert A.,3,482,938.
Canvel, Henry: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,192.
Canyon Research Corporation: *See—*
Marshall, Burton H., 3,431,805.
Canzoneri, Nicholas. Method of making an air filter. 3,460,321, 8-12-69, Cl. 55-495.
Cap-Roc Inc.: *See—*
Leslie, Charles D., 3,485,333.
Capaldi, Eugene C.: *See—*
Borchert, Alfred E.; and Capaldi, Eugene C.,3,465,046.
Capaldi, Eugene C., to Atlantic Richfield Company. Alkyl adamantanes. 3,437,701, 4-8-69, Cl. 260-666.
Capaldi, Eugene C.; and Borchert, Alfred E., to Atlantic Richfield Company. Alkenyl adamantanes. 3,457,318, 7-22-69, Cl. 260-666.
Capaldi, Eugene C.; and Leum, Leonard N., to Atlantic Richfield Company. Vinyladamantane preparation. 3,433,844, 3-18-69, Cl. 260-666.
Capalia, Nick N., 1/2 to Ide, Allan R. Container having measuring means. 3,484,025, 12-16-69, Cl. 222-456.
Capalia, Nick N.; and Burich, John J. Game element for manipulating a hoop. 3,464,155, 9-2-69, Cl. 46-220.
Capalite, Donald K.: *See—*
Slama, Harold M.; and Capalite, Donald K.,3,440,754.
Caparone, Michael J.; and Dykzeul, Theodore J., to Robertshaw Controls Company. Integral valve and diaphragm assembly for a pressure regulator. 3,439,699, 4-22-69, Cl. 137-315.
Caparone, Michael John; and Dykzeul, Theodore John, to Robertshaw Controls Company. Cartridge type pressure regulator. 3,441,049, 4-29-69, Cl. 137-454.6
Caparone, Michael John; and Dykzeul, Theodore John, to Robertshaw Controls Company. Burner control with separate pressure regulator for main and pilot burners. 3,471,087, 10-7-69, Cl. 236-33.
Capaul, Alfons, to Swiss Aluminium Ltd. Continuous casting of nonferrous metals. 3,425,482, 2-4-69, Cl. 164-4.
Cape Ann Marine Research Company, Inc.: *See—*
Tasker, Eric W., 3,471,894.
Cape, Arthur T., to Coast Metals, Inc. Production of cobalt strip and the like. 3,425,828, 2-4-69, Cl. 75-214.
Cape, Arthur T., to Coast Metals, Inc. Method of spray coating gas seals of gas turbines, and the like. 3,436,512, 4-1-69, Cl. 219-76.
Cape, Arthur T., to Coast Metals, Inc. Nickel-base alloys containing copper. 3,437,480, 4-8-69, Cl. 75-170.
Cape, Arthur T., to Coast Metals, Inc. Powder spray torch. 3,441,215, 4-29-69, Cl. 239-85.
Cape, Arthur T., to Coast Metals, Inc. Nickel-base alloys. 3,475,165, 10-28-69, Cl. 75-171.
Cape, Arthur T., to Coast Metals, Inc. Method of making a consumable electrode from strip. 3,483,724, 12-16-69, Cl. 72-368.
Cape, Richard Allan Gordon, to Dominion Bridge Company Limited. Open web steel joist production line. 3,427,699, 2-18-69, Cl. 29-155.
Capek, Raymond G.: *See—*
Melkeraaen, Torleiv O.; and Capek, Raymond G.,3,458,930.
Capellaro, David F., to Optics Technology, Inc. Image display apparatus and method for accurate aiming of a firearm. 3,453,385, 7-1-69, Cl. 178-6.8
Capellaro, Natale; and Bellis, Carlo, to Olivetti, Ing. C., & C., S.p.A. Zero printing control for adding and printing machines. 3,450,042, 6-17-69, Cl. 101-93.
Caperton, Charles B. Tubular screw drive for a rodding machine. 3,438,079, 4-15-69, Cl. 15-104.3
Caperton, Charles B. Manhole brace for sewer rod guide tube. 3,444,578, 5-20-69, Cl. 15-104.3
Caperton, Charles B. Sewer rodding machine. 3,469,273, 9-30-69, Cl. 15-104.3
Caperton, Charles B. Sewer rodding equipment. 3,473,182, 10-21-69, Cl. 15-104.3
Caperton, Charles B. Drive for rodding machine. 3,480,983, 12-2-69, Cl. 15-104.3
Capes, Charles E.; Sutherland, John P.; and Mc Ilhinney, Allan E., to Canadian Patents and Development Limited. Spherical agglomeration process. 3,471,267, 10-7-69, Cl. 23-313.
Capgras, Rene. Hydropneumatic suspension. 3,482,855, 12-9-69, Cl. 280-124.
Capital Film Laboratories, Inc.: *See—*
Misener, Garland C., 3,482,914.
Capital Machine Company, Inc.: *See—*
Koss, Louis Jack, 3,441,069.
Capital Paper Company: *See—*
Pearson, Melvin A., 3,451,870.
Capitanio, Lorenzo: *See—*
Neri, Amleto; and Capitanio, Lorenzo,3,474,127.
Capitano, Peter J.; and Angelkorte, Johannes W., to Union Carbide Corporation. Para-xylylene preparation using hydrogen scavenger. 3,440,295, 4-22-69, Cl. 260-668.
Capitol Hardware Manufacturing Co., Inc.: *See—*
Berman, Marvin A.; Levy, Paul M.; and Mayer, Albert, 3,435,959.
Capitol Records, Inc.: *See—*
Armstrong, Kirk R.; Mikolyczyk, Edward C.; and Nelson, Carl S., 3,463,408.
Reynolds, Wilbur F.; Ruda, Joseph C.; and Marzani, Bruno W., Jr., 3,465,633.
Capitol Refrigeration, Inc.: *See—*
Anglin, William E.; and Anglin, Paul E., 3,479,834.
Capitol Temptrol Corp.: *See—*
Kronick, Joseph S., 3,443,394.
Capitol Tool and Manufacturing Co., Inc.: *See—*
Dorr, Joseph P., 3,439,609.
Capla, Miroslav: *See—*
Brychta, Ondrej; Tlucko, Josef; Kolik, Ondrej; and Capla, Miroslav,3,465,752.
Caplan, Benjamin: *See—*
Sundin, Anita G.; and Caplan, Benjamin,3,421,836.
Caplan, Earl H., to Nysco Laboratories, Inc. Tamperproof display receptacle. 3,451,535, 6-24-69, Cl. 206-44.
Caplan, Earl H., to Nysco Laboratories, Inc. Display package. 3,463,307, 8-26-69, Cl. 206-78.
Caplan, Richard, to Technautics Corporation. Underwater structures. 3,475,915, 11-4-69, Cl. 61-69.
Caple, Donald, to Orenda Limited, mesne. Releasable fluid seal for conduits. 3,444,898, 5-20-69, Cl. 138-89.
Caporali, Giorgio; Barberis, Giuseppe; Ferlazzo, Natale; and Penzo, Vittorio, to Montecatini Edison S.p.A. Process for the purification of acrylonitrile. 3,462,477, 8-19-69, Cl. 260-465.3
Caporali, Giorgio; Ferlazzo, Natale; Giordano, Nicola; and Faletti, Franco, to Montecatini Edison S.p.A. Ammoxidation of alkylated aromatic hydrocarbons to aromatic nitriles using a heteropolycompound as a catalyst. 3,452,077, 6-24-69, Cl. 260-465.
Caporali, Giorgio; and Giordano, Nicola, to Montecatini Edison S.p.A. Catalytic ammoxidation of olefins to nitriles. 3,445,501, 5-20-69, Cl. 260-465.3
Capozzi, Anthony J., to International Business Machines Corporation. Data storage system employing an improved indexing technique therefor. 3,431,558, 3-4-69, Cl. 340-172.5
Capozzi, Anthony J. Telemetry word forming unit. 3,431,559, 3-4-69, Cl. 340-172.5
Capp, Clifford William: *See—*
Bailey, Hubert Charles; Williamson, John Bentley; and Capp, Clifford William,3,439,058.
Capp, Clifford William; and Hadley, David James, to Distillers Company Limited, The. Production of unsaturated aliphatic nitriles. 3,424,781, 1-28-69, Cl. 260-465.3
Cappel, Marvin, Jr.; and Sutton, David R., to Mason & Hanger-Silas Mason Co., Inc. Deep water homing device. 3,475,721, 10-28-69, Cl. 340-6.

Cappell, Charles W.; and Kreske, Gerald H., to Wiegand, Edwin L., Company. Electric air heater for automatic choke. 3,423,569, 1-21-69, Cl. 219-374.

Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L., said Becht assor to ACF Industries, Incorporated, said Capelli, said Guattery, said Rebar, and said Sobin assors to National Lead Company. Method and means for unloading bulk transported pulverulent materials. 3,451,724, 6-24-69, Cl. 302-14.

Cappello, Vito P. Dental floss holder. 3,474,799, 10-28-69, Cl. 132-91.

Cappotto, Samuel D., to SCM Corporation. Belt tensioning device. 3,427,893, 2-18-69, Cl. 74-242.13

Capps, David B., to Parke, Davis & Company. N-(5-Nitro-2-thiazolyl)- cycloalkanecarboxamides. 3,475,446, 10-28-69, Cl. 260-306.8

Cappucci, Joseph D.; and Seidel, Harold, to Merrimac Research and Development, Inc. Four port directive coupler having electrical symmetry with respect to both axes. 3,452,300, 6-24-69, Cl. 333-10.

Cappucci, Joseph D.; and Seidel, Harold, to Merrimac Research and Development, Inc. Lumped parameter directional coupler. 3,452,301, 6-24-69, Cl. 333-10.

Cappuccio, Vittorio, to Montecatini Edison S.p.A. Halogenating fibers composed of mixtures of polypropylene and a basic nitrogen containing polymer. 3,482,926, 12-9-69, Cl. 8-115.5

Caprette, Samuel J., Jr.: *See*—
Cardarelli, Nathan F.; and Caprette, Samuel J., Jr.,3,426,473.

Caprile, Carlo: *See*—
Giavotto, Vittorio; and Caprile, Carlo,3,430,923.
Giavotto, Vittorio; and Caprile, Carlo,3,438,611.

Caprini Shoe Corporation: *See*—
Turian, Herman H., 3,448,532.

Caprio, Gene. Back brace garment. 3,452,748, 7-1-69, Cl. 128-78.

Caprio, Gerald L., to Motorola, Inc. Trimmer capacitor. 3,482,153, 12-2-69, Cl. 317-249.

Caprio, Lawrence Anthony, to Atlas-Rand Corporation, mesne. Motion picture projector. 3,449,044, 6-10-69, Cl. 352-79.

Caprioli,Daniel P. Pipe scraper. 3,486,183, 12-30-69, Cl. 15-104.04

Caprioli, Daniel P. Scraper. 3,432,871, 3-18-69, Cl. 15-104.04

Caprioli, Gianguido; Pistoia, Serenella; and Pavan, Emilio, deceased0 (by Pistoia, Serenella; legal representative). Process for the production of olefins suitable for conversion to detergent alkylates. 3,444,261, 5-13-69, Cl. 260-683.

Capriolo, Igino; and Sacerdote, Ugo, to Fiat Societa per Azioni. High velocity air gun with frangible valve trigger means. 3,428,037, 2-18-69, Cl. 124-11.

Caps (Research) Limited: *See*—
Jeffree, John H., 3,446,547.

Capstran, Richard E. Fixture assemblies for underfloor exhaust removal systems. 3,435,752, 4-1-69, Cl. 98-42.

Capuano, Daniel Vincent: *See*—
Killen, William Robert, Jr.; and Capuano, Daniel Vincent,3,441,639.

Caputo, William R., to Westinghouse Electric Corporation. Electrical drive and method of operating such drive. 3,470,434, 9-30-69, Cl. 318-146.

Caputo, William R., to Westinghouse Electric Corporation. Relay circuit for communication apparatus. 3,474,299, 10-21-69, Cl. 317-155.5

Capuzzi, Rosemary Angela: *See*—
Hanifin, John William, Jr.; Capuzzi, Rosemary Angela; and Cohen, Eliott,3,470,186.

Capvac Industries, Inc.: *See*—
Hulbert, Clarence E., Jr., 3,477,178.

Car-Mon Products, Inc.: *See*—
Imming, Cornell A., 3,473,462.

Carabateas, Philip M., to Sterling Drug Inc.N, N'-Alkylenebis [2-nitro-(lower- alkanamides)]. 3,429,918, 2-25-69, Cl. 260-561.

Carabateas, Philip M., to Sterling Drug Inc. 3-Halo-4-(lower-alkanoyloxy)-1-(lower-alkyl)-4- phenylpiperidines and intermediates. 3,445,474, 5-20-69, Cl. 260-294.3

Caracciolo, Edward A., to Philco-Ford Corporation, mesne. Method of packaging microelectronic devices. 3,431,637, 3-11-69, Cl. 29-588.

Carando Machine Works: *See*—
McCoy, Thomas A., 3,460,500.
McCoy, Thomas A., 3,476,289.

Carapico, Frank, Jr. Environmental control system. 3,444,921, 5-20-69, Cl. 165-21.

Carati, Luigi; Moiso, Ugo; and Craia, Giulio, to Aziende Colori Nazionali Affini ACNA S.p.A. Reactive triazine containing azo dyestuffs. 3,429,870, 2-25-69, Cl. 260-153.

Carbajal, Joe. Tamale making machine. 3,479,970, 11-25-69, Cl. 107-1.

Carbary, Richard J.; and Harder, Arthur J., to General Electric Company. Method of making a refrigerator cabinet assembly. 3,440,308, 4-22-69, Cl. 264-45.

Carbasse, Andre. Composite fishing line. 3,464,140, 9-2-69, Cl. 43-42.74

Carboline Company: *See*—
Feldt, Ralph L.; Montle, John F.; and Skiles, Ernest W., 3,469,071.

Carbon Corporation: *See*—
Smith, William H.; Whitley, Daniel M.; and Eaton, Edgar P., Jr., 3,435,881.

Carbon, Fred S. Pastry shell press. 3,425,363, 2-4-69, Cl. 107-15.

Carbonaro, Antonio: *See*—
Natta, Giulio; Carbonaro, Antonio; Lionetti, Alberto; and Porri, Lido,3,462,406.

Carbonaro, Vito L., to Roanwell Corporation. Armature mounting assembly for an electro-acoustic transducer. 3,460,080, 8-5-69, Cl. 335-231.

Carbond Corporation: *See*—
Corley, William G.; and Sermon, George T., 3,476,677.

Carbone, Anthony J., to Dow Chemical Company, The. Insulated frozen dessert packages. 3,434,849, 3-25-69, Cl. 99-192.

Carbonell, Emile, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of maintaining electrical apparatus at very low temperature. 3,456,453, 7-22-69, Cl. 62-79.

Carboni, Rudolph A., to Du Pont de Nemours, E. I., and Company. Process for preparing 2,6-dichlorobenzonitrile. 3,458,560, 7-29-69, Cl. 260-465.

Carbonneau, Rene R., to Ray Plastic Inc. Spring actuated pump type repeating gun. 3,476,100, 11-4-69, Cl. 124-27.

Carbonnel, Henri Amedee Basile: *See*—
Pinault, Jacques Gilbert; Lallet, Jean Paul; and Carbonnel, Henri Amedee Basile,3,435,145.

Carborundum Company, The: *See*—
Ashby, Bruce A.; and Pearson, Arthur E., Jr., 3,486,627.
Avery, Ralph L., 3,469,485.
Davis, Howard F., Jr., 3,428,443.
Dooley, Peter C., Jr., 3,451,385.
Dooley, Peter C., Jr., 3,458,960.
Downie, Peter M., 3,476,323.
Economy, James; and Anderson, Raymond V., 3,429,722.
Hansen, George R., 3,458,909.
Homeyer, Roger H., 3,474,573.
Kohnken, Kent H., 3,476,324.
Kwasniewski, Edward D.; and Barton, Howard E., 3,420,736.
Lambertson, Wingate A.; and Miccioli, Bruno R., 3,467,745.
Lopacki, John, 3,442,014.
McGarvey, Jarvis M., 3,427,765.
McMullen, John C.; and Taylor, Kenneth M., 3,480,395.
Mueller, John A.; and Mark, Stanley D., Jr., 3,474,576.
Myles, Thomas A., 3,467,535.
Pisano, Anthony M.; and Barnard, John K., 3,422,205.
Rohl, Cornelius W.; and Robinson, James H., 3,462,289.
Rutt, Richard D., 3,473,637.
Stein, Harold A., 3,469,959.
Terrell, William T., 3,467,812.
Wilson, Bonum S., Jr.; and Von Doenhoff, Carl, 3,459,566.

Carburetion Units Limited: *See*—
Ferriday, Donald Frank Everest; and Ferriday, Percival Victor, 3,482,556.

Carcy-McFall Company: *See*—
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B., 3,459,624.

Card, Joseph Lewis; Passons, William Erby; and Richmond, Freddie M., to Fringe Equipment, Inc. Fringe knot typing machine. 3,486,780, 12-30-69, Cl. 289-2.

Card, Roy T., to Lewis Card & Co., Inc. Yarn guide for a tufting needle. 3,442,233, 5-6-69, Cl. 112-79.

Card, Theodore B., to Thiokol Chemical Corporation. Flexible hot gas valve. 3,465,967, 9-9-69, Cl. 239-265.23

Card-Key Systems, Inc.: *See*—
Hatfield, David D., 3,427,944.

Cardarelli, Nathan F.; and Caprette, Samuel J., Jr., to Goodrich, B. F., Company, The. Antifouling covering. 3,426,473, 2-11-69, Cl. 43-131.

Cardeiro, Charles P., to Universal Interloc, Inc, mesne. Low level sensing and control circuit. 3,430,129, 2-25-69, Cl. 324-30.

Cardeiro, Charles P., to Universal Interloc, Inc., mesne. pH meter and control system. 3,440,525, 4-22-69, Cl. 324-30.

Cardel, Robert; and Gorsky, Egon, to Lettam, Inc. Electric arm and head movement. 3,456,383, 7-22-69, Cl. 46-247.

Cardell, Olof. Plate structure for heat exchangers. 3,430,694, 3-4-69, Cl. 165-166.

Cardenas, Alex F. Reversing switch assembly. 3,445,609, 5-20-69, Cl. 200-1.

Cardenas, Armando: *See*—
Huber, Victor R.; and Cardenas, Armando,3,476,168.

Carder, Frank B.; Wright, Robert; Canade, George F.; and Stein, Daniel, to Dorr-Oliver Incorporated. Material handling system and method. 3,472,175, 10-14-69, Cl. 104-91.

Carder, Mervin L.; and Sutcliffe, Eugene G., to Husky Corporation. Dispensing nozzle and guard. 3,474,837, 10-28-69, Cl. 141-392.

Carder, Victor H.: *See*—
McCartney, Duane N.; Carder, Victor H.; and Shaw, Hugh H.,3,435,969.

Cardiello, Peter L.: *See—*
Pedalino, Alfonza, 3,429,255.
Cardinal Chemical, Inc.: *See—*
Guinn, Jerry H.; and Wright, William Sherwood, 3,480,079.
Cardinal, Earl Victor, to Abbott Laboratories. Method for cholesterol determination. 3,479,154, 11-18-69, Cl. 23-230.
Cardinal of Adrian, Inc.: *See—*
MacDonald, Robert D., 3,460,190.
Cardinal Products, Inc.: *See—*
White, Glen B., 3,429,810.
Cardinal Scale Manufacturing Co.: *See—*
Bailey, Don R., 3,444,944.
Garvey, Gary M., 3,458,003.
Cardinet, Guy; and Faudemay, Edmond Lucien Jean, to Gillette France S.A. Rotary cutting device. 3,448,684, 6-10-69, Cl. 100-171.
Cardis, Donald R.: *See—*
Butler, Eugene B.; Cardis, Donald R.; and Schick, Harold P.,3,446,686.
Cardon, Michael Alexandre Pierre, to Vacu-Blast Company, Inc. Grit blasting apparatus. 3,448,544, 6-10-69, Cl. 51-8.
Cardona, Carlos J., to Cardona Company. Motion picture projector. 3,468,463, 9-23-69, Cl. 226-64.
Cardona Company: *See—*
Cardona, Carlos J., 3,468,463.
Cardone, Joseph T.: *See—*
Bright, Elvin M.; Zachry, David R.; and Cardone, Joseph T.,3,427,284.
Cardoso, Carlos Duarte, to Sodescal-Sociedade de Maquinas de Descasque. Cashew-nut peeling machine. 3,439,719, 4-22-69, Cl. 146-10.
Cardoso, Jose Joaquim, to Magnesita S.A. Encased electric pump. 3,479,960, 11-25-69, Cl. 103-117.
Cardoso, Marc A., to Chayes, Samuel. Combination medical examining and operating table. 3,486,747, 12-30-69, Cl. 269-325.
Cardwell, Gilbert P.: *See—*
Jensen, Niels H.; and Cardwell, Gilbert P.,3,471,933.
Cardwell, John G., Jr., to General Electric Company. Filament mount structure for electric lamps and manufacture thereof. 3,441,772, 4-29-69, Cl. 313-113.
Cardwell, John G., Jr., to General Electric Company. Filament support for incandescent electric lamps. 3,441,776, 4-29-69, Cl. 313-273.
Cardwell, John G., Jr., to General Electric Company. Halogen cycle incandescent lamp. 3,445,713, 5-20-69, Cl. 313-273.
Cardwell, Lloyd, to Cardwell Westinghouse Company. Combined hydraulic cushion-friction clutch draft gear. 3,447,693, 6-3-69, Cl. 213-22.
Cardwell, Lloyd, to Cardwell Westinghouse Company. Two-way hydraulic unit. 3,483,952, 12-16-69, Cl. 188-96.
Cardwell, Robert E.: *See—*
Burgess, Paul N.; Cardwell, Robert E.; and Remski, Frank R.,3,476,956.
Cardwell Westinghouse Company: *See—*
Cardwell, Lloyd, 3,447,693.
Cardwell, Lloyd, 3,483,952.
Rauglas, Gerard, 3,448,836.
Carel, Alfred B.; and Bush, William A., to Continental Oil Company. Valved trap manifold. 3,427,788, 2-18-69, Cl. 55-197.
Carella, Giovanna: *See—*
Dall'Asta, Gino; and Carella, Giovanna,3,449,310.
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario, to Pirelli S.p.A. Apparatus for manufacturing pneumatic tires. 3,433,695, 3-18-69, Cl. 156-401.
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario, to Pirelli S.p.A. Method for manufacturing pneumatic tires. 3,434,897, 3-25-69, Cl. 156-132.
Caretto, Howard L., to Reeve Electrical Co., Inc., The. Break-glass station with slide switch protected against false operation. 3,423,547, 1-21-69, Cl. 200-61.08
Carevic, Frank E.: *See—*
Koch, Walter T.; and Carevic, Frank E.,3,459,117.
Carew, Noel John: *See—*
Dickinson, Clifford James; and Carew, Noel John,3,459,979.
Carey, Andrew J.; and Gilbert, Chalmers W., to Westinghouse Air Brake Company. Automatic vehicle door control system. 3,433,373, 3-18-69, Cl. 214-63.
Carey, Charles A., to Worcester, Gurdon S. Colored flame combustion device. 3,468,615, 9-23-69, Cl. 431-126.
Carey, Daniel J.; Gal, George; Sletzinger, Meyer; and Reinhold, Donald F., to Merck & Co., Inc.Process for α-(5-nitroindolyl-3)-alkanoic acids. 3,471,514, 10-7-69, Cl. 260-326.13
Carey, George F.; Chlupsa, John E.; Schloemer, Howard H.; and King, Emanuel F., to United States of America, Navy. Acoustic turbulent water-flow tunnel. 3,473,360, 10-21-69, Cl. 73-148.
Carey, James E., to Shell Oil Company. Sandwich pipe. 3,474,834, 10-28-69, Cl. 138-140.
Carey, Michael J. Percentage measuring device. 3,482,319, 12-9-69, Cl. 33-111.
Carey, Philip, Corporation, The: *See—*
Callahan, Howard Edward; and O'Connor, Ralph John, 3,424,647.
Carey, Richard J.; and Dunlap, Robert B., to Compo Industries, Inc. Method of reinforcing shoe parts. 3,434,170, 3-25-69, Cl. 12-146.
Carey, Richard R.: *See—*
Dore, James E.; and Carey, Richard R.,3,434,825.
Carey, Thomas L.: *See—*
Satterwhite, William A.; Carter, Jack M.; and Carey, Thomas L.,3,455,651.
Carey, William R.: *See—*
Berryman, Charles O.; Oldberg, Sidney; and Carey, William R.,3,441,290.
Carey, William R., to Eaton Yale & Towne, Inc. Vehicle safety method and apparatus. 3,451,693, 6-24-69, Cl. 280-150.
Carey, William R.; and Hass, David P., to Eaton Yale & Towne, Inc. Safety device. 3,473,824, 10-21-69, Cl. 280-150.
Carey-Mc Fall Company: *See—*
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B., 3,463,696.
Carfagno, Samuel J.: *See—*
Black, Donald M.; and Carfagno, Samuel J.,3,422,728.
Cargile, Neil H., Jr. Automatic swing control system for dredge. 3,471,949, 10-14-69, Cl. 37-64.
Cargill Incorporated: *See—*
Swenson, Robert A.; and Smith, Roscoe S., 3,428,683.
Swenson, Robert A., 3,449,431.
Swenson, Robert A., 3,456,012.
Cargo, Kenneth F.; and Nichols, Duane C., to Whirlpool Corporation. Solid state control system for cyclically operated appliances. 3,464,673, 9-2-69, Cl. 259-1.
Caribbean Holdings Ltd.: *See—*
Dobell, Curzon; and Wilson, Leslie P., 3,425,118.
Caridis, Andrew A.; and Benson, Clark K., to Heat and Control, Inc. Food cooker. 3,472,155, 10-14-69, Cl. 99-404.
Carignan, Yvon P. Gasometer-dilatometer. 3,425,811, 2-4-69, Cl. 23-292.
Carini, Alexander F.; Wegener, Howard W.; and Boynton, Kenneth G. Solder deposit and leveling machines. 3,435,801, 4-1-69, Cl. 118-63.
Carini, Alexander: *See—*
Diggins, Thomas; Carini, Alexander; and Boynton, Kenneth,3,438,386.
Carini, Eugene P., to Energy Systems, Inc. Electric drive system. 3,477,536, 11-11-69, Cl. 180-65.
Carini, George F.: *See—*
Davies, Ben; and Carini, George F.,3,449,138.
Davies, Ben; and Carini, George F.,3,479,194.
Carinthia Elektrogerate Gesellschaft m.b.H., Firma: *See—*
Loner, Aldo; and Meier, Otto, 3,456,341.
Rinck, Cornelis Ludwig; and Koroncai, Adam, 3,421,214.
Carissimi, Vincent L., to Hubbell, Harvey, Incorporated. Protective enclosure for electrical wiring devices. 3,449,706, 6-10-69, Cl. 339-94.
Carissimi, Vincent L.; and Lipinski, Vincent F., to Hubbell, Harvey, Incorporated. Electrical connector having a protective cover. 3,452,321, 6-24-69, Cl. 339-108.
Carithers, Mercer D., to Collins Radio Company. Tantalum thin film capacitor production leakage current minimizing process. 3,466,230, 9-9-69, Cl. 204-38.
Carithers, Val G.: *See—*
Armbrust, Bernard F., Jr.; and Carithers, Val G.,3,477,865.
Carkhuff, Donald W.; and Wojciak, Thaddeus J., to Union Carbide Corporation. Gas shielded arc welding torch. 3,436,522, 4-1-69, Cl. 219-130.
Carl, Allen E.: *See—*
Houtz, Harold H.; and Carl, Allen E.,3,432,411.
Carl, David George, to Owens-Illinois, Inc. Banding machine. 3,453,982, 7-8-69, Cl. 118-6.
Carl, Heinz; and Stumpe, August Christian, to Licentia Patent-Verwaltungs-G.m.b.H. Method of determining the current handling capacity of a thyristor. 3,426,277, 2-4-69, Cl. 324-158.
Carl, Walther, Sportwaffenfabrik: *See—*
Hubner, Siegfried, 3,478,841.
Carl, William J.: *See—*
Cooke, George H.; and Carl, William J.,3,452,794.
Carl, William L., to General Electric Company. Sheet beam electron discharge device with means for preventing unwanted oscillations of the beam. 3,424,933, 1-28-69, Cl. 313-83.
Carl, Wolfgang; Wendel, Martin; and Reichle, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Method for preventing accumulation of electrostatic charges on shaped articles. 3,424,609, 1-28-69, Cl. 117-139.5
Carlberg, George A.: *See—*
Siegal, Burton L.; and Carlberg, George A.,3,450,177.
Carlbom, Marshall B., 50% to Rapaport, Leonard, and Blumberg, Murray, and 50% to Elescope Corporation. Elevating platform. 3,447,635, 6-3-69, Cl. 182-141.

Carle, William E., to American Telephone and Telegraph Company. Emergency reporting telephone system for highways. 3,471,649, 10-7p69, Cl. 179-35.

Carlen, Bo Robert, Jr., to AB Bonnierforetagen. Method and machine for stacking batches of newspapers. 3,450,275, 6-17-69, Cl. 214-6.5

Carlen, Fred: *See—*
Breitholtz, Bo; and Carlen, Fred,3,482,070.
Breitholtz, Bo; Carlen, Fred; and Ahrnholm, Par,3,424,199.

Carlen Industries, Inc.: *See—*
Francis Peter S.; and Mc Graw, Leslie D., 3,466,232.

Carlen, Jan-Christer Henric Ovesson; Flaherty, Francis Edward; and Tupper, Wyman Carrick, to Sandvikens Jernverks Aktiebolag. Razor blades and similar thin elongated sharp edged blades made of a chromium steel. 3,469,972, 9-30-69, Cl. 75-126.

Carleton Controls Corporation: *See—*
Cummins, Richard D., 3,468,307.

Carletti, Luciano; and Rigamonti, Alessandro, to Societa Farmaceutici Italia. Process of preparing pharmaceutical tablet with orange-peel-like protective sugar coating. 3,480,468, 11-25-69, Cl. 117-84.

Carlevaro, Ugo. Hauling device for ski lifts. 3,439,627, 4-22-69, Cl. 104-173.

Carley, Donald R., to Radio Corporation of America. High frequency, high power transistor having overlay electrode. 3,434,019, 3-18-69, Cl. 317-235.

Carley, Donald R., to RCA Corporation. Strip-line power transistor package. 3,478,161, 11-11-69, Cl. 174-52.

Carli, Alvin J., to Consolidated Electronics Industries Corporation. Switch with over-travel actuator. 3,439,134, 4-15-69, Cl. 200-47.

Carli, Raymond J., to Collins Radio Company. Adjustable harmonic trap whose tuning tracks the tuning of pass band means. 3,453,565, 7-1-69, Cl. 334-64.

Carlin, Eunice A. Roll-type toboggan. 3,484,801, 12-16-69, Cl. 280-18.

Carlin, Francis X.: *See—*
Renzoni, Louis S.; Di Bari, George Angelo; Knapp, Burton B.; and Carlin, Francis X.,3,437,571.

Carlin, Joseph T.: *See—*
Braden, William B.; and Carlin, Joseph T.,3,469,406.

Carlin, Owen B.: *See—*
Rikert, John A.; Carlin, Owen B.; and Lucas, Michael J.,3,461,822.

Carlin, William F., III.; Blatter, Albert; and Reiff, Albert T., Jr., to United Aircraft Corporation. Fuel control testing device. 3,443,428, 5-13-69, Cl. 73-117.3

Carlin, William W., to PPG Industries, Inc. Electrolytic process for preparing hydrogen fluo- ride. 3,450,609, 6-17-69, Cl. 204-103.

Carlin, William W., to PPG Industries, Inc. Electrolytically reducing halide impurity content of alkali metal dichromate solutions. 3,454,478, 7-8-69, Cl. 204-130.

Carling Brewing Company Incorporated: *See—*
Justis, Luther E., 3,440,432.

Carlisle, Benjamin H.; Daggs, Kenneth L.; and Sauter, John D., to Clark Controller Company, The. Electrical control circuit for cyclically operating apparatus. 3,446,985, 5-27-69, Cl. 307-113.

Carlisle Chemical Works, Inc.: *See—*
Hechenbleikner, Ingenuin; and Thompson, Paul F., 3,463,644.
Hechenbleikner, Ingenuin; and Lanpher, Edward J., 3,470,254.
Molt, Kenneth R.; and Hechenbleikner, Ingenuin, 3,422,197.
Thompson, Paul F., 3,480,712.
Weisfeld, Lewis B.; and Whitehead, Stanley E., 3,446,749.
Weisfeld, Lewis B., 3,478,071.
Weisfeld, Lewis B., 3,479,315.

Carlisle Corporation: *See—*
Ford, Charles R.; DeHaven, Oliver S.; and Percifield, Edward K., 3,470,768.

Carlisle, Fredrick Madden: *See—*
Van Winkle, Denzal W.; and Carlisle, Fredrick Madden,3,437,630.

Carlisle, Raymond Melvin: *See—*
Dowling, Edward Camp; Carlisle, Raymond Melvin; and Fraunfelder, James Alexander,3,446,982.

Carlisle, Raymond Melvin; and Loose, Winfield Warren, to AMP Incorporated. Selector switch provided with selectably actuable contact means. 3,436,696, 4-1-69, Cl. 335-106.

Carlisle, Richard W.: *See—*
Sebesta, George J.; and Carlisle, Richard W.,3,432,622.

Carlisle Tire and Rubber, division of Carlisle Corp.: *See—*
Otstot, James L., 3,438,831.

Carliss, Oswald S., to Eaton Yale & Towne, Inc. Vacuum handling method for small load units. 3,471,989, 10-14-69, Cl. 53-3.

Carlo, Donald R.: *See—*
Wolfgang, Lozure G.; Carlo, Donald R.; and Clayton, Robert H.,3,436,590.

Carlo Erba S.p.A,: *See—*
Giraldi, Pier Nicola; Lauria, Francesco; Fojanesi, Alessandro; Nannini, Giuliano; and Logemann, Willy, 3,458,533.

Carlo, Kenneth J., to New Castle Products, Inc. Apparatus for partitioning a room having a stepped floor. 3,425,173, 2-4-69, Cl. 52-64.

Carlo, Louis David, 45% to Grave, Lester A. 5% to Jose, John, and 5% to Mettler, Wayne. Apparatus for making forming rolls from a plastic material. 3,480,999, 12-2-69, Cl. 18-12.

Carlock, Frank R.; Kippenhan, B. William; Lamoureux, William R.; and Lazarchick, Nicholas, Jr., to International Business Machines Corporation. Pincushion corrected deflection system for flat faced cathode ray tube. 3,435,278, 3-25-69, Cl. 315-24.

Carlodge Corporation: *See—*
Lodjic, Carl L.; and McGregor, Donald T., 3,428,154.

Carlon, Hugh R., to United States of America, Army. Elongated infrared heater. 3,450,864, 6-17-69, Cl. 219-553.

Carloni, Mario. Multi-stage vaporization steam generator. 3,421,481, 1-14-69, Cl. 122-248.

Carloni, Mario. Steam diffusor. 3,421,696, 1-14-69, Cl. 239-133.

Carlos, Donald D.: *See—*
Burk, Emmett H., Jr.; and Carlos, Donald D.,3,423,448.
Burk, Emmett H., Jr.; and Carlos, Donald D.,3,423,449.
Burk, Emmett H., Jr.; and Carlos, Donald D.,3,423,450.
Burk, Emmett H., Jr.; and Carlos, Donald D.,3,480,595.

Carlos, Donald D., to Sinclair Research, Inc. Hydroxylamine solutions stabilized with an amide oxime and method for their preparation. 3,480,391, 11-25-69, Cl. 23-190.

Carlos, Donald D., to Sinclair Research, Inc. Hydroxylamine solutions stabilized with a hydroxamic acid and method for their preparation. 3,480,392, 11-25-69, Cl. 23-190.

Carlos, Donald D.; and Burk, Emmett H., Jr., to Sinclair Research, Inc. Process for preparing aromatic monoisocyanates. 3,423,447, 1-21-69, Cl. 260-453.

Carlos, Donald D.; Chambes, Robert R.; and Young, David W., to Sinclair Research, Inc. Mineral cutting oil compositions containing acylated, allylic, hydroxyl-terminated diene polymers and process of cutting metal therewith. 3,449,252, 6-10-69, Cl. 252-56.

Carlos, Donald D.; and Young, David W., to Sinclair Research, Inc. Mineral lubricating oil containing a diene polymer having terminal hydrocyl groups and halogen and oxygen-containing groups. 3,471,405, 10-7-69, Cl. 252-56.

Carlos, Donald D.; and Young, David W., to Sinclair Research, Inc. Cutting oil compositions containing a mineral lubricating oil base and a polydiene-polyhalomethane adduct. 3,480,549, 11-25-69, Cl. 252-54.

Carlos, Donald D.; Young, David W.; and Chambers, Robert R., to Sinclair Research, Inc. Process of cutting metals and cutting oil containing allylic hydroxyl-terminated unsaturated diene polymer. 3,475,338, 10-28-69, Cl. 252-59.

Carls, William H.: *See—*
Strenkert, Lynn A.; and Carls, William H.,3,436,263.

Carls, William, to Numatics, Incorporated. Safety valve system. 3,428,084, 2-18-69, Cl. 137-596.14

Carls, William, to Numatics, Incorporated. Rotary valve construction. 3,442,291, 5-6-69, Cl. 137-625.41

Carlsen, Harry R.: *See—*
Schjeldahl, Gilmore T.; Carlsen, Harry R.; and Eumurian, Charles,3,480,993.

Carlsen, Leonard O., deceased0 (by Carlsen, Ruth Rogers, administratrix). Method and machine for blanking ball bearings. 3,466,910, 9-16-69, Cl. 72-71.

Carlsen, Ruth Rogers: *See—*
Carlsen, Leonard O.,3,466,910.

Carlsmith, Lawrence Allan: *See—*
Rich, John P.; and Carlsmith, Lawrence Allan,3,452,875.

Carlson, Agnes J.: *See—*
Carlson, Elmer,3,452,824.

Carlson, Arthur B.; Kettleborough, Donald J.; and Schreiber, Lucian L., to Conco Inc. Conduit cleaning apparatus. 3,451,089, 6-24-69, Cl. 15-104.3

Carlson, Arthur W.: *See—*
Leedy, Charles D., 3,454,019.

Carlson, Arthur W.; and Carlson, Ralph J., to A&R Meats, Inc. Mixing machine. 3,434,697, 3-25-69, Cl. 259-3.

Carlson, Arthur W.; and Peterson, Roger W., to Sheldon, E. H., & Company. Mirror suspension. 3,469,814, 9-30-69, Cl. 248-492.

Carlson, Bert M. Snow plow with laterally expansible fixed angle plow portions. 3,431,661, 3-11-69, Cl. 37-46.

Carlson, Burnette J.; and Johnson, John H., to TRW Inc. Linear ball bushing. 3,476,445, 11-4-69, Cl. 308-6.

Carlson, Carl O.: *See—*
Bucklin, Edward P., Jr.; Pollack, Werner; and Carlson, Carl O.,3,434,110.

Carlson, Carl O., to National Cash Register Company, The. Laser film deformation recording and erasing system. 3,475,760, 10-28-69, Cl. 346-1.

Carlson, Carl O.; Bernstein, Herbert L.; and Sone, Eliot, to National Cash Register Company, The. Information processing systems using lasers. 3,465,352, 9-2-69, Cl. 346-76.

Carlson, Carl O.; Ives, Henry D.; and Jones, John L., to National Cash Register Company. Laser recorder with scanning and display systems. 3,448,458, 6-3-69, Cl. 346-17.

Carlson, Chesley F., Company: *See—*
Carlson, Chesley F.; and Schroeder, Allyn, 3,463,586.
Wicker, Ralph C., 3,462,229.
Carlson, Chesley F.; and Schroeder, Allyn, to Carlson, Chesley F., Company. Photographic copyboard. 3,463,586, 8-26-69, Cl. 355-76.
Carlson, David E.; and Robinson, Edgar R., to Bell Telephone Laboratories, Incorporated. Roll call acknowledgment of data stations on multistation lines. 3,427,587, 2-11-69, Cl. 340-147.
Carlson, David P.; and Reid, Jerome L., to Polaroid Corporation. Novel photographic products and processes. 3,427,158, 2-11-69, Cl. 96-3.
Carlson, David P.; and Reid, Jerome L., to Polaroid Corporation. Novel photographic products, processes and compositions. 3,455,685, 7-15-69, Cl. 96-3.
Carlson, Donald W.; and Egerer, Herbert. Air pressure regulator. 3,437,109, 4-8-69, Cl. 137-505.25
Carlson, Donald W.; and Eller, Phillip E., to Ford Motor Company. Method of forming relatively straight lengths of metal into elongated members. 3,423,819, 1-28-69, Cl. 29-471.1
Carlson, Donald W.; and Eller, Phillip E., to Ford Motor Company. Method of anchoring a metallic member to plastic. 3,468,020, 9-23-69, Cl. 29-597.
Carlson, Donovan, to Honeywell Inc. Centrifugally armed fuze. 3,425,354, 2-4-69, Cl. 102-79.
Carlson, Drexel T.: *See—*
Zebarth, Ralph S.; and Carlson, Drexel T.,3,475,178.
Carlson, Edgar; and Wynne, Francis E., Jr., to Gulf Research & Development Company. Method for the recovery of normal paraffins by urea adduction. 3,433,734, 3-18-69, Cl. 208-308.
Carlson, Elmer, deceased0 (by Carlson, Agnes J.; executrix). Oscillating harrows. 3,452,824, 7-1-69, Cl. 172-54.
Carlson, Emery J.: *See—*
Michener, Aubrey W., Jr.; Carlson, Emery J.; and Koo, Raymond H.,3,479,136.
Carlson, Emil Herbert, to Monsanto Company. Metal chelates of diphenoxydibenzoylmethane. 3,458,548, 7-29-69, Cl. 260-429.
Carlson, Emil H., to Monsanto Company. Method for improving the oxidation resistance of polyphenyl ether. 3,424,801, 1-28-69, Cl. 260-613.
Carlson, Emil M. Cart. 3,479,048, 11-18-69, Cl. 280-47.23
Carlson, Ernest H., Jr. Circuit component. 3,465,267, 9-2-69, Cl. 333-76.
Carlson, Ernest R., to Hubbell, Harvey, Incorporated. Clamp-type terminal. 3,452,317, 6-24-69, Cl. 339-95.
Carlson, Ernest R., to United States of America, Air Force. Liquid-microwave leveling indicator. 3,486,116, 12-23-69, Cl. 324-58.5
Carlson, Ernest R.; and Lipinski, Vincent F., to Hubbell, Harvey, Incorporated. Electrical connector device having improved grounding means for shell. 3,474,377, 10-21-69, Cl. 339-14.
Carlson, Everett W.: *See—*
Blanzy, Eugene J.; and Carlson, Everett W.,3,443,591.
Carlson, Evert A., to Keystone Consolidated Industries, Inc. Caster socket assembly. 3,452,386, 7-1-69, Cl. 16-39.
Carlson, Frank A., Jr., to Mobil Oil Corporation. Method for direct injection extrusion of polystyrene foam. 3,444,283, 5-13-69, Cl. 264-53.
Carlson, Frank A., Jr., to Mobil Oil Corporation. Process for extruding a thermoplastic foam. 3,482,006, 12-2-69, Cl. 264-54.
Carlson, Frank A., Jr.; and Zavitz, Walter E., to Celanese Corporation. Method and apparatus for making plastic film. 3,466,356, 9-9-69, Cl. 264-95.
Carlson, Gale K.: *See—*
Peterson, Bulow A.; and Carlson, Gale K.,3,469,360.
Carlson, George A.; Weller, Dale E.; and Williamson, Shellie O., to Caterpillar Tractor Company. Cable coupling. 3,462,972, 8-26-69, Cl. 64-12.
Carlson, George N. Animated duck decoy. 3,435,550, 4-1-69, Cl. 43-3.
Carlson, George R., to Warwick Electronics, Inc. Transformerless push-pull amplifier with adjustable class of operation. 3,439,284, 4-15-69, Cl. 330-15.
Carlson, Gerald J., to General Electric Company. Tool surface temperature measuring apparatus. 3,486,378, 12-30-69, Cl. 73-343.
Carlson, Gilbert Fritz; and Dameron, Francis Eugene, to International Telephone and Telegraph Corporation. Three way valves. 3,482,624, 12-9-69, Cl. 165-22.
Carlson, Gordon A., to PPG Industries, Inc. Alkali metal hydroxide purification. 3,459,646, 8-5-69, Cl. 204-153.
Carlson, Gordon R. Treatment unit for contaminated effluent. 3,451,552, 6-24-69, Cl. 210-152.
Carlson, Harold A.; and Szwargulski, Alex N., to ACF Industries, Incorporated. Fuel control valve for a carburetor. 3,471,123, 10-7-69, Cl. 251-362.
Carlson, Harry A.: *See—*
Calta, Salvatore A.; Carlson, Harry A.; Granito, Gerry D.; Kaumeyer, Lynn W.; Marcotte, Alphonse U.; and Messina, Benedicto U.,3,447,135.
Carlson, Henry Clifford, Jr.; and Greenberg, Louise H., to Smith Kline & French Laboratories. Method of treating vascular and migraine headaches with 1,1-diphenyl-4-(1-piperidyl)- butanol-1. 3,423,511, 1-21-69, Cl. 424-267.
Carlson, Henry; Lundquist, Ingvar; Danieli, Sten Henrik; and Andersson, Rune, to Allmanna Svenska Elektriska Aktiebolaget. Trackless marshalling trolley. 3,427,991, 2-18-69, Cl. 104-26.
Carlson, Herbert Gustaf. Method and apparatus for optimizing chemical treatment. 3,462,364, 8-19-69, Cl. 210-42.
Carlson, Jerome A.: *See—*
Cain, Earl S.; Carlson, Jerome A.; and Goodrich, George E.,3,466,697.
Carlson, John H.; and Scott, Ernest H., to United Shoe Machinery Corporation. Grease cartridge. 3,424,273, 1-28-69, Cl. 184-98.
Carlson, John W., to Speed-O-Print Business Machines Corporation. Duplicating machines. 3,476,381, 11-4-69, Cl. 271-36.
Carlson, Kenneth B., to Monogram Industries, Inc. Valve construction. 3,447,777, 6-3-69, Cl. 251-144.
Carlson, Lorien A.: *See—*
Wagtskjold, Halvor Paul; Sundin, George H.; and Carlson, Lorien A.,3,470,978.
Carlson, Melvin G., to Westinghouse Air Brake Company. Oscillating actuating means for mining heads of ripper miner. 3,480,328, 11-25-69, Cl. 299-71.
Carlson, Merle T. Method and apparatus for teaching swimming. 3,425,072, 2-4-69, Cl. 9-339.
Carlson, Oscar N.: *See—*
Schmidt, Frederick A.; Carlson, Oscar N.; Krupp, William E.; and Wilhelm, Harley A.,3,425,826.
Carlson, Otto K.; and Price, John A., to FMC Corporation. Phenoxides as transesterification catalysts. 3,425,997, 2-4-69, Cl. 260-75.
Carlson, Otto K.: *See—*
Price, John A.; and Carlson, Otto K.,3,420,803.
Price, John A.; and Carlson, Otto K.,3,475,380.
Stewart, Mary J.; and Carlson, Otto K.,3,444,140.
Stewart, Mary J.; and Carlson, Otto K.,3,475,371.
Carlson, Paul E.; and Race, Keith W., to Mack Trucks, Inc. Lubrication system for wet clutches. 3,474,888, 10-28-69, Cl. 192-113.
Carlson, Ralph J.: *See—*
Carlson, Arthur W.; and Carlson, Ralph J.,3,434,697.
Carlson, Raymond T. Furniture fastener. 3,443,530, 5-13-69, Cl. 108-156.
Carlson, Reuben C., to Marvco Tool & Mfg. Repeating phonograph record changer. 3,438,636, 4-15-69, Cl. 274-10.
Carlson, Richard A., to General Motors Corporation. Electric heating system for motor vehicles. 3,469,072, 9-23-69, Cl. 219-202.
Carlson, Richard A., to General Motors Corporation. Alternator-rectifier control circuit. 3,476,950, 11-4-69, Cl. 290-38.
Carlson, Richard E., to Blackstone Corporation. Apparatus for assembly of tube and center radiator cores. 3,431,620, 3-11-69, Cl. 29-202.
Carlson, Robert G., to General Electric Company. Method for making composite material. 3,419,952, 1-7-69, Cl. 29-471.3
Carlson, Robert Gustav, to General Electric Company. Composite material and method for making. 3,471,270, 10-7-69, Cl. 29-182.2
Carlson, Robert J. Self-contained signal light unit. 3,426,343, 2-4-69, Cl. 340-321.
Carlson, Robert M.; Jasorka, Larry P.; Mulconrey, John F.; and Trimble, Glenn A., to Western Electric Company, Incorporated. Method for molding terminals in workpieces. 3,458,931, 8-5-69, Cl. 29-630.
Carlson, Robert O., to SCM Corporation. Ventilated sound-reducing enclosure for a teleprinter. 3,476,210, 11-4-69, Cl. 181-33.
Carlson, Robert S.: *See—*
Perkins, John J.; and Carlson, Robert S.,3,439,966.
Carlson, Robert W., Jr.: *See—*
Rentschler, John H.; and Carlson, Robert W., Jr.,3,472,523.
Carlson, Rollin N.: *See—*
Chapman, Welding G.; and Carlson, Rollin N.,3,462,347.
Carlson, Ronald A.; and Gerharter, Thomas M., to Minnesota Mining and Manufacturing Company. Tray for liquids. 3,422,979, 1-21-69, Cl. 220-1.
Carlson, Ronald G. Billfold safety guard. 3,422,498, 1-21-69, Cl. 24-3.
Carlson, Ronald H., to Hooker Chemical Corporation. Sequestration of metal ions with hydroxyalkyl phosphine oxides. 3,477,953, 11-11-69, Cl. 252-175.
Carlson, Ronald J., to Battelle Development Corporation, The. Fabrication of metal structures. 3,419,951, 1-7-69, Cl. 29-470.1
Carlson, Roy C., Jr.: *See—*
Bouvier, Francis L.; Carlson, Roy C., Jr.; Higgins, Charles W.; Smith Norman F.; and Kelley, John J.,3,438,155.
Carlson, Thomas W.; and Ivers, John R., to Honeywell, Inc. Linear meter movements. 3,479,596, 11-18-69, Cl. 324-151.
Carlson Tool & Machine Co.: *See—*
Hazelton, Harold J., 3,423,128.
Hazelton, Harold J., 3,451,173.
Hazelton, Harold J., 3,479,091.
Carlson, Wayland A.: *See—*
Montalvo, Emanuel; Kranhold, Kenneth G.; and Carlson, Wayland A.,3,437,939.

Carlson, William G.; Moratis, Christy J.; and English, William A., to Westinghouse Electric Corporation. High temperature, electrically conductive hermetic seals. 3,457,052, 7-22-69, Cl. 29-199.
Carlson, Willis J., to Control Data Corporation. Cathode sputtering apparatus for producing plural coatings in a confined high freqncy generated discharge. 3,420,767, 1-7-69, Cl. 204-298.
Carlsson, Konrad Valdemar, to Stenberg-Flygt AB. Cooling device for sealing rings. 3,443,813, 5-13-69, Cl. 277-18.
Carlsson, Lennart Inge; and Andersson, Lars Goran, to AB Tetra Pak. Making of a combined package of filled tetrahedral containers. 3,474,899, 10-28-69, Cl. 206-47.
Carlsson, Osten, to Atlas Copco Aktiebolag. Method and means for making snow. 3,464,625, 9-2-69, Cl. 239-2.
Carlsson, Per Arvid Emil: *See—*
Corrodi, Hans Rudolf; and Carlsson, Per Arvid Emil,3,422,140.
Corrodi, Hans Rudolf; and Carlsson, Per Arvid Emil,3,422,141.
Carlsson, Pervi: *See—*
Sivilotti, Olivo Giuseppe; and Carlsson, Pervi,3,481,194.
Carlsson, Sixten Einar, to Borgs Fabriks AB. Arresting gear for aircraft and other vehicles. 3,468,500, 9-23-69, Cl. 244-110.
Carlsson, Stig Ake Ingemar: *See—*
Brandstrom, Arne Elof; and Carlsson, Stig Ake Ingemar,3,485,835.
Carlsson, Sven A.: *See—*
Denny, James M.; and Carlsson, Sven A.,3,440,785.
Carlstead, Robert H., to Hewlett-Packard Company. Transducer output indicator. 3,445,840, 5-20-69, Cl. 340-347.
Carlstedt, Ragnar L., to Kennametal Inc. Tire stud. 3,477,490, 11-11-69, Cl. 152-210.
Carlstedt, Sven Borje Fredrik, to Stenberg-Flygt AB. Pressure relay. 3,466,978, 9-16-69, Cl. 92-95.
Carlston, Earl F.: *See—*
Ellis, William H.; and Carlston, Earl F.,3,475,360.
Carlston, Hamilton S. Safety latch for doors, windows and the like. 3,458,226, 7-29-69, Cl. 292-268.
Carlton, Emerson B. Snow plow having a vehicle ramp. 3,470,632, 10-7-69, Cl. 37-44.
Carlton, Louis A.: *See—*
Buck, Henry M.; Bruccher, Judith F.; Carlton, Louis A.; and Pierce, Aaron E.,3,431,974.
Carlton Machine Tool Company, The: *See—*
Lehmkuhl, Robert, 3,451,125.
Carlton, William C. Method of making a racket frame. 3,431,626, 3-11-69, Cl. 29-423.
Carlton, William Charles. Moulded one-way clutch. 3,486,597, 12-30-69, Cl. 192-46.
Carlucci, Michael P.: *See—*
Korolick, Samuel R.; Barron, Edward R.; James, Peter; and Carlucci, Michael P.,3,452,362.
Carmahan, David: *See—*
Hanson, Rolf G.; and Hansen, David G., 3,456,388.
Carman, Charles V.: *See—*
Amrein, Carl J.; and Carman, Charles V.,3,447,011.
Carmassi, Michel; and Vandesande, Georges, to Societe Nationale des Petroles d'Aquitaine. Process and apparatus for the optimization of chemical reaction units. 3,424,560, 1-28-69, Cl. 23-278.
Carmet Company: *See—*
Phillips, William H., Jr., 3,436,951.
Phillips, William H., Jr., 3,440,862.
Phillips, William H., Jr., 3,466,922.
Stier, Henry W., 3,466,720.
Stier, Henry W., 3,466,955.
Stier, Henry W., 3,484,919.
Carmichael, Dana. Catamaran. 3,460,502, 8-12-69, Cl. 114-61.
Carmichael, Keith S., to Du Pont de Nemours, E. I., and Company. Multiple container package. 3,420,367, 1-7-69, Cl. 206-65.
Carmichael, Keith S., to Du Pont de Nemours, E. I., and Company. Process for simultaneously severing and sealing layers of thermoplastic materials. 3,441,460, 4-29-69, Cl. 156-251.
Carmichael, Keith S., to Du Pont de Nemours, E. I., and Company. Sleeve loading apparatus. 3,466,851, 9-16-69, Cl. 53-390.
Carmichael, Keith S.; and di Giacomo, Eugene P., to Du Pont de Nemours, E. I., and Company. Shipping structure. 3,442,372, 5-6-69, Cl. 206-46.
Carmody, Doyle V., to International Telephone and Telegraph Corporation. Voltage regulator and failure circuits. 3,440,492, 4-22-69, Cl. 317-27.
Carnahan, Paul E.; and Brooke, Donald C., to Westinghouse Electric Corporation. Storage system. 3,433,996, 3-18-69, Cl. 315-12.
Carnahan, Walter H. Swimming pools. 3,456,265, 7-22-69, Cl. 4-172.
Carnall, Edward, Jr., to Eastman Kodak Company. Lanthanum fluoride infrared transmitting optical elements. 3,437,724, 4-8-69, Cl. 264-125.
Carnall, Edward, Jr., to Eastman Kodak Company. Optically useful elements of hot pressed lithium fluoride doped magnesium oxide and method of forming same. 3,476,690, 11-4-69, Cl. 252-300.
Carnall, Edward, Jr.; Hatch, Sherley E.; Parsons, William F.; and Weagley, Robert J., to Eastman Kodak Company. Hot pressed polycrystalline laser material. 3,453,215, 7-1-69, Cl. 252-301.1
Carnall, Edward, Jr.; and Mauer, Paul B., to Eastman Kodak Company. Process for preparing hot molded compacts for use in vacuum coating. 3,482,009, 12-2-69, Cl. 264-125.
Carnall, Edward, Jr.; Parsons, William F.; and Roy, Donald W., to Eastman Kodak Company. Hot pressed cadmium telluride. 3,475,116, 10-28-69, Cl. 23-50.
Carnation Company: *See—*
Long, Marshall, 3,427,954.
Martin, Russell John, 3,479,795.
Carnavos, Theodore C., to General Electric Company. Temperature compensated air-cooled steam condenser. 3,443,633, 5-13-69, Cl. 165-108.
Carnavos, Theodore C., to General Electric Company. Multiple effect distillation apparatus. 3,481,835, 12-2-69, Cl. 202-174.
Carnazza, Joseph, to JFD Electronics Corporation, mesne. Trimmer capacitor. 3,469,158, 9-23-69, Cl. 317-249.
Carnazza, Joseph; and Weisbrod, Marvin, to JFD Electronics Corporation, mesne. Piston trimmer capacitor. 3,469,159, 9-23-69, Cl. 317-249.
Carnell, Brian L.: *See—*
Stone, Robert A.; and Carnell, Brian L.,3,486,832.
Carnell, Peter John Herbert; Skinner, Wilfrid Jesse; and Spencer, Michael Staines, to Imperial Chemical Industries Limited. Elecrolysis. 3,445,354, 5-20-69, Cl. 204-73.
Carnes, Robert A.; and Taylor, Douglas W., to Motorola, Inc. Encapsulated semiconductor device including a ceramic substrate. 3,439,255, 4-15-69, Cl. 322-28.
Carnevale, Edmund H.; Lynnworth, Lawrence C.; and Lawson, Ronald N., to Parametrics, Inc. Transducer for artificial heart. 3,425,064, 2-4-69, Cl. 3-1.
Carnevale, Umberto A., to All American Engineering Company. Encapsulated wire cable and method of encapsulation thereof. 3,443,374, 5-13-69, Cl. 57-149.
Carney, Henry J. Apparatus for locating and removing foreign matter from animal tissue. 3,460,528, 8-12-69, Cl. 128-2.1
Carney, John L., Jr.; and Dugge, Richard H., to ACF Industries, Incorporated. Apparatus for automatically opening and closing hatch covers. 3,476,042, 11-4-69, Cl. 105-377.
Carney, Leroy L.; and Priest, Gerald G., to Dixie Chemical Products Co. Ammonia stripping process. 3,428,426, 2-18-69, Cl. 23-193.
Carney, Richard William James, to Ciba Corporation. Bicyclic tetrahydropyrimidines. 3,483,205, 12-9-69, Cl. 260-256.4
Carney, Richard William James; Blatter, Herbert Morton; and de Stevens, George, to Ciba Corporation. Bicyclic pyrimidines. 3,454,573, 7-8-69, Cl. 260-251.
Carney, Richard William James; Blatter, Herbert Morton; and DeStevens, George, to Ciba Corporation. Novel bicyclic pyrimidine derivatives. 3,483,200, 12-9-69, Cl. 260-247.5
Carnt, Peter Swift, to RCA Corporation. Color correction system for video tape recorders. 3,461,226, 8-12-69, Cl. 178-5.4
Carolan, Donald Leo: *See—*
Schnell, Ernst Emil; and Carolan, Donald Leo,3,470,994.
Carolin, Lyn. Apparatus and method for cleaning fixed windows. 3,434,882, 3-25-69, Cl. 134-26.
Carolina Patent Development Trust, The: *See—*
Adams, Russell E., 3,439,716.
Berry, Ronald, 3,425,461.
Brown, Ralph H., Jr., 3,444,899.
Brown, Ralph H., Jr., 3,467,148.
Budzyna, Joseph M.; and Mucciarone, Rocco H., 3,444,904.
Consoletti, Paul C., 3,467,811.
Dubois, Joseph W., 3,444,678.
Mallard, Robert G., 3,448,776.
Nichols, Edward C.; and Tiernan, Stanley C., 3,425,458.
Nydam, John H., 3,442,301.
Nydam, John H., 3,467,147.
Papelian, Roger G.; and Fontaine, Andre J., 3,442,300.
Papelian, Roger G.; and Budzyna, Walter James, 3,444,903.
Petko, Michael A.; and Burger, Theodore G., 3,439,512.
Sotek, Stanley J., 3,421,552.
Wiesinger, Frederick C.; Lyster, Thomas C.; and Reisener, William C., Jr., 3,423,960.
Wiesinger, Frederick C., 3,427,829.
Carolite Inc.: *See—*
Wellen, Larry A., 3,481,818.
Caron, Fred Joseph; and Barnum, Orville G., to Rex Chainbelt Inc., mesne. Vehicular wheel for compacting sanitary fill. 3,463,063, 8-26-69, Cl. 94-50.
Caron, Georges, to Regie Nationale des Usines Renault. Convertible seats for automotive vehicles. 3,431,018, 3-4-69, Cl. 297-66.
Caron, Georges, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Rear seats of vehicles. 3,449,012, 6-10-69, Cl. 297-403.
Caron, Jean; and Bigo, Firmin, to U.S. Philips Corporation, mesne. Device for reproducing information on the screen of a cathode-ray tube. 3,449,620, 6-10-69, Cl. 315-22.
Caron, Lionel, to Bell Telephone Laboratories, Incorporated. Error detection circuit. 3,440,493, 4-22-69, Cl. 317-148.5
Caron, Rene Jean: *See—*
Grover, George M.; Busse, Claus A.; and Caron, Rene Jean,3,441,752.

Caron, Roger G. Snow vehicle. 3,481,416, 12-2-69, Cl. 180-5.
Carondelet Foundry Company: *See—*
Culling, John H., 3,473,922.
Carosino, Lawrence E., to Hercules Incorporated. Tri (C_8 -C_{10} alkyl) m-and p-nitrobenzyl quaternary ammonium halides. 3,446,844, 5-27-69, Cl. 260-567.6
Carothers, John N.; and Hurka, Rudolph J., Jr. Process of purifying phosphoric acid. 3,442,609, 5-6-69, Cl. 23-165.
Carothers, Robert O., to Calgon Corporation. Use of turbulence suppressing agents in water jet looms. 3,476,155, 11-4-69, Cl. 139-127.
Caroussos, Panayotis: *See—*
Lerwill, William Edward; Caroussos, Panayotis; and Anstey, Nigel Allister,3,460,095.
Carow, Walter M.: *See—*
Davies, James W.; and Carow, Walter M.,3,438,265.
Carow, Walter M.; and Rogall, Herbert, to Singer-General Precision, Inc. Accelerometer. 3,438,266, 4-15-69, Cl. 73-516.
Carp, Gerald: *See—*
Korzekwa, Samuel M.; McFadyen, Robert J.; and Carp, Gerald,3,483,559.
Carp, Ralph Wolf: *See—*
Slavin, Michael; Carp, Ralph Wolf; Howard, William Edward; and Ang, Leoncio T.,3,485,316.
Slavin, Michael; Emery, Raymen F.; and Carp, Ralph W.,3,477,346.
Carp, Ralph W.; Carruth, Winford B.; and Slavin, Michael, to Bendix Corporation, The. Automobile turn signal with lamp failure indicator. 3,428,943, 2-18-69, Cl. 340-80.
Carp, Ralph W.; Howard, William E.; Slavin, Michael; and Ang, Leoncio T., to Bendix Corporation, The. Automobile speed control. 3,455,411, 7-15-69, Cl. 180-105.
Carpano & Pons: *See—*
Bossard, Paul; and Chauvigne, Michel, 3,432,626.
Carpco Research & Engineering Inc.: *See—*
Carpenter, James Hall, 3,438,503.
Carpenter, Alton D.: *See—*
Swift, Gilbert; Carpenter, Alton D.; and Smith, David M.,3,427,877.
Carpenter, Arvell A., to A & T Engineering Co., Inc. Combined vibratory massage and foot warmer unit. 3,457,911, 7-29-69, Cl. 128-24.2
Carpenter, Edgar L. Pipe handling apparatus. 3,451,711, 6-24-69, Cl. 294-113.
Carpenter, Frederick A.; and Stark, Forest G., to Adams, Clark, Corp., mesne. Filing cabinet module. 3,421,801, 1-14-69, Cl. 312-111.
Carpenter, Herbert L., Jr., to Greif Bros. Cooperage Corporation, The. Precision threaded insert for plastic containers. 3,437,231, 4-8-69, Cl. 220-63.
Carpenter, Herbert L., Jr., to Greif Bros. Cooperage Corporation, The. Plastic lined fiber containers. 3,445,049, 5-20-69, Cl. 229-14.
Carpenter, Herbert L., Jr.; and Dubois, Robert A., to Greif Bros. Cooperage Corporation, The. Drum liner with flexible neck. 3,432,070, 3-11-69, Cl. 220-63.
Carpenter, Herbert L., Jr.: *See—*
Naylor, Robert M.; and Carpenter, Herbert L., Jr.,3,431,870.
Carpenter, James E.; and Pleuthner, Richard L., to United States of America, Air Force. Rotating lip hot gas collector nozzle. 3,434,663, 3-25-69, Cl. 239-132.3
Carpenter, James Hall, to Carpco Research & Engineering Inc. Rotary vacuum filter. 3,438,503, 4-15-69, Cl. 210-396.
Carpenter, James H.; and Bowling, Joseph E., Jr., to Pangborn Corporation, The. Abrasive blasting apparatus. 3,460,291, 8-12-69, Cl. 51-9.
Carpenter, John Cline: *See—*
Wong, Frank; Carpenter, John Cline; and Sanford, Robert Clark,3,440,656.
Carpenter, John Mc Murray, III; and Smith, Drexel Kermit, to Du Pont de Nemours, E. I., and Company. Spinning fiber-forming linear condensation polymer. 3,480,706, 11-25-69, Cl. 264-176.
Carpenter, John W.: *See—*
Dalenberg, John F.; Todd, Elmer H.; and Carpenter, John W.,3,465,971.
Carpenter, Keith H., to General Motors Corporation. Washer arm. 3,422,484, 1-21-69, Cl. 15-250.04
Carpenter, Keith H., to General Motors Corporation. Windshield cleaning device utilizing an oscillatory fluid stream. 3,423,026, 1-21-69, Cl. 239-284.
Carpenter, Keith H., to General Motors Corporation. Rear window wiper. 3,428,996, 2-25-69, Cl. 15-250.24
Carpenter, Keith H., to General Motors Corporation. Windshield washer arm. 3,458,888, 8-5-69, Cl. 15-250.04
Carpenter, Keith H.; and Jones, David L., Jr., to General Motors Corporation. Pulse wiper control. 3,422,335, 1-14-69, Cl. 318-443.
Carpenter, Kenneth: *See—*
Moss, Arthur William; Jones, Norman; and Carpenter, Kenneth,3,445,948.
Carpenter, Paul G., to Copolymer Rubber & Chemical Corporation. Process for suppressing molecular jump in the preparation of sulfur-vulcanizable elastomers. 3,422,051, 1-14-69, Cl. 260-33.6
Carpenter, Peter E. G.: *See—*
Hall, John S.; and Carpenter, Peter E. G.,3,467,920.
Hall, John S.; Carpenter, Peter E. G.; and Cook, David L.,3,470,507.
Carpenter, Peter John; and Brett, John Howard, to Trico Products Corporation. Drive mechanism for actuating a windscreen washer pump from a windscreen wiper motor. 3,428,991, 2-25-69, Cl. 15-250.02
Carpenter, Peter William, to Air Preheater Company, Inc., The. Coil handling apparatus. 3,463,410, 8-26-69, Cl. 242-79.
Carpenter, Robert Edward: *See—*
Kurkowski, Albert Robert; and Carpenter, Robert Edward,3,462,514.
Carpenter, Sammy: *See—*
Witt, Enrique Roberto; Carpenter, Sammy; and Zee-Cheng, Kwang Yuen,3,450,726.
Carpenter, Sammy; Witt, Enrique R.; and Cahill, Joseph J., Jr., to Celanese Corporation. Mono(2,3-dibromopropyl)ether of sorbital. 3,474,148, 10-21-69, Cl. 260-615.
Carpenter, Virgil R., to Unipress Company, Incorporated, The. Double buck garment drying apparatus. 3,473,708, 10-21-69, Cl. 223-57.
Carpenter, Virgil R., to Unipress Company, Incorporated, The. Garment buck apparatus. 3,473,709, 10-21-69, Cl. 223-57.
Carpenter, Walter E.; and Varick, Lawrence, to Wagner Electric Corporation. Lamp lead wire terminal. 3,422,302, 1-14-69, Cl. 313-318.
Carpenter, Warren E., to Lear Siegler, Inc. Monitoring and fault correction system for a multiple channel servo actuator. 3,462,662, 8-19-69, Cl. 318-18.
Carpenter, William R.: *See—*
Jacobsen, John B.; and Carpenter, William R.,3,467,113.
Carpentier, Raymond: *See—*
Van Eygen, Cyrille; and Carpentier, Raymond,3,470,124.
Carpentier, Serge; Delarue, Roger; Francois, Henri; Grand-Clement, Anne-Marie; Portal, Guy; and Soudain, Georges, to Commissariat a l'Energie Atomique. Phosphate glass for X-ray, gamma-ray and thermal neutron dosimeters. 3,449,136, 6-10-69, Cl. 106-47.
Carper, Robert L.; Lein, Juergen G. A.; Miller, Donald J.; Schmidlin, Raymond J.; and Verderber, Joseph A., to Addressograph-Multigraph Corporation. Master making and duplicating machine. 3,426,678, 2-11-69, Cl. 101-132.5
Carpigiani, Poerio, to APAW S.A. Portioning and dispensing device including adjustment means to vary the volume of the proportions. 3,422,995, 1-21-69, Cl. 222-309.
Carpigiani, Poerio, to APAW S.A. Automatic ice cream machine. 3,465,540, 9-9-69, Cl. 62-343.
Carpigiani, Poerio, to APAW S.A. Automatic feed device for continuous ice cream making machines. 3,486,525, 12-30-69, Cl. 137-453.
Carr-Brion, Kenneth Garfield; and Jenkinson, Doris Audrey, to National Research Development Corporation. Continuous X-ray fluorescent analysis of the solid component of a slurry. 3,443,092, 5-6-69, Cl. 250-51.5
Carr, David Ward: *See—*
Collis, Alec Peter Orme; and Carr, David Ward,3,441,081.
Carr, Donald R., to Whittaker Corporation. Subreflector-positioning mechanism. 3,432,135, 3-11-69, Cl. 248-287.
Carr, Donald R., to Allied Chemical Corporation. Curable urethane compositions. 3,471,445, 10-7-69, Cl. 260-75.
Carr, E. Wilson. Land vehicle propelled in the manner of a rowboat. 3,452,998, 7-1-69, Cl. 280-1.11
Carr, Ellis R.: *See—*
Magers, Joseph I., 3,455,573.
Carr, Frank B.; Carter, Theodore; Raeburn, Robert A.; and De Chistino, Albert J., to United States of America, Army. Military ribbon holding device. 3,455,042, 7-15-69, Cl. 40-1.5
Carr, George W., to Pullman Incorporated. Trailer post construction. 3,453,019, 7-1-69, Cl. 296-28.
Carr, George W., to Pullman Incorporated. Trailer rear header structure. 3,485,523, 12-23-69, Cl. 296-28.
Carr, Gorge W., to Pullman Incorporated. Load transfer system and device therefor. 3,454,172, 7-8-69, Cl. 214-38.
Carr, Harry E. Expandable camper. 3,463,540, 8-26-69, Cl. 296-23.
Carr, Hugh B., to Kinney, S. P., Engineers, Inc. Actuating and reducing gear for heavy valves and other equipment. 3,421,388, 1-14-69, Cl. 74-625.
Carr, Hugh B., to Kinney, S. P., Engineers, Inc. Protective apparatus. 3,435,696, 4-1-69, Cl. 74-424.8
Carr, Hugh B.; and Turocy, Elmer W., to Kinney, S. P., Engineers, Inc. Blast furnace backdraft valve. 3,442,484, 5-6-69, Cl. 251-98.
Carr, Hullet C.: *See—*
Paden, Harrell W.; Carr, Hullet C.; and McDowell, Alfred W.,3,449,106.
Carr, Irving A. Pressure diecasting apparatus and method. 3,443,628, 5-13-69, Cl. 164-313.

Carr, Jesse M., Jr.; Byars, Gerald A.; and De Feo, Richard J., to Esso Research and Engineering Company. Olefin activator for ligards in caprons halide slurry. 3,480,662, 11-25-69, Cl. 260-465.9
Carr, Jesse M., Jr.: *See*—
Cahn, Robert P.; Long, Robert B.; Cecchetti, Ralph; Carr, Jesse M., Jr.; and De Feo, Richard J.,3,481,971.
Carr, John William. Traction system for treatment of lower limb deformities. 3,481,331, 12-2-69, Cl. 128-80.
Carr, Martin W.: *See*—
Dion, Paul A.; and Carr, Martin W.,3,455,016.
Carr, Marvin W.: *See*—
Hanser, Paul E.; Schmidt, Robert L.; and Carr, Marvin W.,3,455,400.
Carr, Norman L.; and Somers, Allen E., to Gulf Research & Development Company. Apparatus and process for direct measurement of heat of reaction. 3,440,013, 4-22-69, Cl. 23-230.
Carr, Russell L. K.: *See*—
Baranauckas, Charles F.; Campbell, Donald H.; and Carr, Russell L. K.,3,448,148.
Carr, Vernon R., to Goodyear Tire & Rubber Company, The. Panel assembly. 3,445,972, 5-27-69, Cl. 52-98.
Carrasse, Jean Marie Pierre, to Societe Generale de Constructions Electriques et Macaniques (ALSTHOM). Open magnetohydrodynamic cycle and method of operation of magnetohydrodynamic cycle. 3,467,842, 9-16-69, Cl. 310-11.
Carre, Georges P.: *See*—
Chaplais, Henri; Pillon, Lucien; Carre, Georges P.; Rips, Lucien; and Gambette, Rene,3,423,152.
Carre, Roland, to CSF-Compagnie Generale de Telegraphie Sans Fil. Arrangements for eliminating fixed echos. 3,444,554, 5-13-69, Cl. 343-7.7
Carre, Roland; and Robert, Jean, to CSF-Compagnie Generale de Telegraphie Sans Fil. Devices for treating signals. 3,438,034, 4-8-69, Cl. 343-17.1
Carreira, Leonard M., to Xerox Corporation. Photoelectrophoretic imaging process employing a layer of insulating liquid to improve image quality. 3,485,738, 12-23-69, Cl. 204-181.
Carreira, Leonard M.; and Tulagin, Vsevolod, to Xerox Corporation. Imaging process. 3,477,934, 11-11-69, Cl. 204-181.
Carreker, Roland P., Jr., to General Electric Company. Dip forming method. 3,466,186, 9-9-69, Cl. 117-114.
Carreker, Roland P., Jr., to General Electric Company. Atmosphere control in dip-forming process. 3,484,280, 12-16-69, Cl. 117-114.
Carrels, Howard J., to Weyerhaeuser Company. Side-swinging article stacker. 3,456,815, 7-22-69, Cl. 214-6.
Carrick, Wayne L.; and Karapinka, George L., to Union Carbide Corporation. Coupling of amino arenes. 3,449,429, 6-10-69, Cl. 260-576.
Carriel, Jonathan Turner; and Hewitt, Earle Norman, to International Nickel Company, Inc., The. Bis(trialkylphosphine carbon disulfide) nickel compound. 3,472,887, 10-14-69, Cl. 260-439.
Carrier Corporation: *See*—
Anderson, Carl M.; and Endress, James W., 3,421,685.
Arledge, Arthur E., Jr., 3,450,342.
Ashley, Carlyle M., 3,477,241.
Bolton, Theodore S., 3,431,748.
Campbell, John M.; and Miller, Arthur J., 3,476,487.
Church, Richard A., 3,441,080.
Coleman, Milton H.; and Traver, Darwin G., 3,422,888.
Coleman, Milton H.; Traver, Darwin G.; and Herb, Carl C., 3,452,667.
Czuszak, Charles C., 3,461,893.
Damratowski, Leonard P., 3,440,806.
Dyre, Eddie L.; and Greacen, John A., 3,452,550.
Eisberg, Keith V., 3,423,951.
Eisberg, Keith V.; and Foster, Glenn B., 3,466,887.
Endress, James W., 3,462,625.
English, Richard A., 3,481,150.
Foster, Glenn B., 3,426,547.
Fragnito, Daniel A., 3,434,409.
Fragnito, Daniel A.; and Herb, Carl C., 3,441,082.
Greacen, John A.; and Beresik, Lawrence S., 3,426,548.
Heck, William C.; and Fragnito, Daniel A., 3,465,814.
Honnold, Fred V., Jr., 3,428,118.
Honnold, Fred V., Jr., 3,455,378.
Hoyle, Walter W., 3,481,153.
Huesgen, Eugene L., 3,441,200.
Johnson, Stuart E., 3,452,552.
Lavigne, William J., Jr.; Osborne, William T.; and Anderson, Carl M., 3,443,572.
Law, John, 3,424,370.
Law, John, 3,429,137.
Law, John, 3,470,406.
Leonard, Louis H., Jr., 3,433,296.
Mac Leod, David E., 3,460,458.
McGrath, William L., 3,429,367.
McGrath, William L., 3,440,835.
McGrath, William L., 3,461,460.
McGrath, William L., 3,464,401.
McGrath, William L., 3,486,985.
Metzger, Benjamin A.; and Miller, Harry E., 3,426,953.
Morrison, Frank A., 3,447,684.
Morrow, David R., 3,441,380.
Platnick, David, 3,466,519.
Shaw, David N., 3,425,452.
Shaw, David N., 3,426,962.
Shaw, David N., 3,465,953.
Shulock, Charles; and Straslicka, William A., 3,465,769.
Simpson, Walter M., 3,461,684.
Smith, Roy F.; and Kovar, Richard D., 3,461,681.
Stankavich, Anthony J.; and Geckle, Thomas E., 3,428,492.
Stankavich, Anthony J.; and Geckle, Thomas E., 3,429,748.
Stenerson, Randolph N., 3,465,422.
Traver, Darwin G., 3,466,063.
Wellman, Donald C., 3,464,400.
Yerdon, Michael G.; and Honnold, Fred V., Jr., 3,452,811.
Carrier, Elphege. Carrier dust accumulators. 3,423,783, 1-28-69, Cl. 15-339.
Carrier, Paul Wilfrid: *See*—
Ingham, John Milton; and Carrier, Paul Wilfrid,3,454,309.
Carrieri, Louis F., to U.S. Industries, Inc. Hydraulic valve. 3,483,891, 12-16-69, Cl. 137-596.16
Carrieri, Louis F.; and Skinner, Norton D., to U.S. Industries, Inc. Multispeed driving mechanisms. 3,433,086, 3-18-69, Cl. 74-364.
Carrigan, Robert J., to United States Envelope Company. Continuous form envelopes with inserts. 3,482,763, 12-9-69, Cl. 229-69.
Carrigan, Robert J.; and Stone, Ralph K., to United States Envelope Company. Envelop with external pocket for removable tag. 3,446,421, 5-27-69, Cl. 229-70.
Carrillo, Julio B. Color television system providing an illusion of depth. 3,457,364, 7-22-69, Cl. 178-6.5
Carrock, Frederick E.: *See*—
Doak, Kenneth W.; and Carrock, Frederick E.,3,448,175.
Carrock, Frederick E.; Toekes, Barna; and Doak, Kenneth W., to Rexall Drug and Chemical Company. Process for obtaining polybutadiene-modified styrene resins. 3,428,712, 2-18-69, Cl. 260-880.
Erchak, Michael, Jr.; Carrock, Frederick E.; and Koch, Karl F.,3,487,127.
Carroll, Alfred J. Air distributor manifold and valve disk. 3,446,423, 5-27-69, Cl. 230-46.
Carroll, Arley Gene. Stabilizing assembly for hoist. 3,433,447, 3-18-69, Cl. 248-352.
Carroll, Charles A.; and Vaka, James J., to Lever Brothers Company. Bromination process. 3,450,757, 6-17-69, Cl. 260-559.
Carroll, David A.; and Kuramoto, Simpey, to General Mills, Inc. Process for preparing ground meat composition. 3,482,998, 12-9-69, Cl. 99-108.
Carroll, David A.: *See*—
Christianson, George; Carroll, David A.; and Kuramoto, Simpey,3,482,996.
Carroll, Elmer F. Anchor cradle and lock. 3,481,301, 12-2-69, Cl. 114-210.
Carroll, Eric: *See*—
Stubbs, Dennis; Swift, Eric Owen; and Carroll, Eric,3,486,360.
Carroll, Evender A. Combination saw. 3,420,283, 1-7-69, Cl. 143-46.
Carroll, James A.; and Spivak, Joel F., to Loral Corporation. Method for preparing high mobility indium antimonide thin films. 3,480,484, 11-25-69, Cl. 148-6.3
Carroll, James C., to International Telephone and Telegraph Corporation. Zero output impedance amplifier. 3,435,360, 3-25-69, Cl. 330-25.
Carroll, James J.; and Frind, Gerhard, to General Electric Company. Circuit interrupter for high-voltage D-C circuits. 3,452,174, 6-24-69, Cl. 200-148.
Carroll, John F., Jr., to Eastman Kodak Company. Magnetic tape. 3,476,596, 11-4-69, Cl. 117-239.
Carroll, Michael W.; and Perry, Donald S., to Eltra Corporation. Two-piece journal bearing. 3,445,145, 5-20-69, Cl. 308-15.
Carroll, Robert L., to Monsanto Company. Preparation of orthophosphorous acid. 3,437,439, 4-8-69, Cl. 23-165.
Carroll, Robert L., to Monsanto Company. Preparation of oxo-acids of phosphorus. 3,437,440, 4-8-69, Cl. 23-165.
Carroll, Robert L.; and Irani, Riyad R., to Monsanto Company. Production of phosphorous acid. 3,437,438, 4-8-69, Cl. 23-165.
Carroll, Robert P. Rotary-linear convertor. 3,421,379, 1-14-69, Cl. 74-44.
Carroll, Robert P. Selector switch for multiple circuit control. 3,441,743, 4-29-69, Cl. 307-28.
Carroll, Silas Edward: *See*—
Featherston, Richard Henry; and Carroll, Silas Edward,3,440,005.
Carroll Street Corporation: *See*—
Bachner, George L., 3,423,495.
Carroll, William C.; and Johnston, Howard T., Jr., to International Business Machines Corporation. Nonelectronic magnetic recording system. 3,479,036, 11-18-69, Cl. 274-4.

Carron, Maurice Claude Ernest; and Jullien, Alexandra F., to Societe Anonyme des Laboratories Robert et Caniere. Rutin alkyl sulphonates. 3,422,086, 1-14-69, Cl. 260-210.
Carrotte, Frederick H., to Kirkland, A., & Company Limited. Knitting machines. 3,464,234, 9-2-69, Cl. 66-25.
Carrotte, Frederick H., to Kirkland, A., & Company Limited. Circular knitting machines. 3,470,713, 10-7-69, Cl. 66-25.
Carrotte, Frederick H.; and Ellis, John Ernest, to Kirkland, A., & Co. Limited. Circular knitting machines. 3,442,098, 5-6-69, Cl. 66-50.
Carrow, Donald J.: *See*—
Patinkin, Seymour H.; Verdol, Joseph A.; and Carrow, Donald J.,3,450,513.
Verdol, Joseph A.; and Carrow, Donald J.,3,432,479.
Verdol, Joseph A.; and Carrow, Donald J.,3,476,686.
Verdol, Joseph A.; and Carrow, Donald J.,3,487,125.
Carruth, Winford B.: *See*—
Carp, Ralph W.; Carruth, Winford B.; and Slavin, Michael,3,428,943.
Carruthers, George A., to Turbo Machine Company. Creel. 3,432,118, 3-11-69, Cl. 242-131.1
Carruthers, George Alan, to Turbo Machine Company. Textile treating method. 3,451,600, 6-24-69, Cl. 223-76.
Carruthers, George R., to United States of America, Navy. Image converter for detecting electro- magnetic radiation especially in short wave lengths. 3,478,216, 11-11-69, Cl. 250-213.
Carruthers, John; and Winsor, John, to British Petroleum Company Limited, The. Desulphurisation and hydrogenation of aromatic hydrocarbons. 3,484,496, 12-16-69, Cl. 260-667.
Carruthers, John: *See*—
Winsor, John; and Carruthers, John,3,484,501.
Carsello, Anthony J.; and Di Giulio, Edmund M. Acoustical chair. 3,452,836, 7-1-69, Cl. 181-31.
Carsello, Richard D.; and Lunquist, Richard E., to Motorola, Inc. Plural channel frequency detecting circuit. 3,465,294, 9-2-69, Cl. 340-171.
Carsello, Richard D.: *See*—
Lunquist, Richard E.; and Carsello, Richard D.,3,473,152.
Carson, Alan B., to Garrett Corporation, The. Transpiration-cooled incinerator. 3,478,706, 11-18-69, Cl. 110-8.
Carson, Arthur N.; and Ujhelyi, Gabor K., to Carson Laboratories, Inc. Optical associative memory. 3,447,138, 5-27-69, Cl. 340-173.
Carson, Chester C.; Gibbs, Edward E.; and Grobel, Lloyd P., to General Electric Company. Wear detector for fluid-cooled electric machine. 3,428,838, 2-18-69, Cl. 310-56.
Carson, Chester C.: *See*—
Grobel, Lloyd P.; and Carson, Chester C.,3,427,880.
Carson, Don B., to Universal Oil Products Company. Method for purifying hydrogen. 3,428,429, 2-18-69, Cl. 23-212.
Carson, Don B., to Universal Oil Products Company. Conversion process in the presence of hydrogen. 3,428,549, 2-18-69, Cl. 208-79.
Carson, Don B., to Universal Oil Products Company. Method for hydrocarbon conversion. 3,442,793, 5-6-69, Cl. 208-108.
Carson, Don B., to Universal Oil Products Company. Hydrogenation of benzene to form cyclohexane. 3,450,785, 6-17-69, Cl. 260-667.
Carson, Don B., to Universal Oil Products Company. Method for operating a non-regenerative fixed bed reforming process. 3,470,090, 9-30-69, Cl. 208-138.
Carson, Don B., to Universal Oil Products Company. Hydrocracking process. 3,475,322, 10-28-69, Cl. 208-89.
Carson, Don B.; and Lengemann, Robert A., to Universal Oil Products Company. Method for producing detergent-grade alkylate. 3,426,092, 2-4-69, Cl. 260-671.
Carson, Don B.: *See*—
Heinze, Walter W.; Jones, Evan A.; and Carson, Don B.,3,476,283.
Liebman, Warren S.; Carson, Don B.; and Dolejs, Charles A.,3,422,848.
Carson, Elizabeth Landis: *See*—
Rasmussen, Chris Royce; Carson, Elizabeth Landis; and Mohrbacher, Richard Joseph,3,433,797.
Carson, Forrest L. Adjustable pre-set pressure actuated mechanical prime mover. 3,465,647, 9-9-69, Cl. 91-395.
Carson, Frank J.: *See*—
Oelke, Waldemar W.; Carson, Frank J.; Badger, Alfred E.; and O'Connell, Thomas B.,3,477,840.
Rahrig, Donald D.; Ritter, George F., Jr.; and Carson, Frank J.,3,485,615.
Ritter, George F., Jr.; Carson, Frank J.; and Hymore, Frank J.,3,476,540.
Carson, George W., Jr., to Kaman Corporation. Air-ground rescue device including protective shield assembly therefor. 3,467,346, 9-16-69, Cl. 244-137.
Carson, John R., to McNeil Laboratories, Inc. Tetrahydrothienobenzothiazines. 3,422,101, 1-14-69, Cl. 260-243.
Carson, John R., to McNeil Laboratories, Inc. (O-aminophenyl)-thio-dihydro-thiophene-1,1-dioxides and their derivatives. 3,444,209, 5-13-69, Cl. 260-332.1
Carson, John R., to McNeil Laboratories, Inc. 1,2,3,5,6,7-Hexahydro-4-phenethyl-2,6-methano-4H- 4-benzazonin-12-ols. 3,471,503, 10-7-69, Cl. 260-294.7
Carson Laboratories, Inc.: *See*—
Carson, Arthur N.; and Ujhelyi, Gabor K., 3,447,138.
Knapp, Richard A., 3,440,621.
Weeks, Richard F., 3,476,483.
Carson, Raymond M. Folding carrier for paper cups. 3,421,790, 1-14-69, Cl. 294-87.26
Carson, Samuel Corbett, to Imperial Chemical Industries Limited. Purification of hydrogen chloride. 3,464,787, 9-2-69, Cl. 23-154.
Carson, Samuel Corbett, to Imperial Chemical Industries Limited. Catalytic process for the manufacture of alkyl halides and catalysts therefor. 3,484,494, 12-16-69, Cl. 260-657.
Carson, Samuel Corbett; and Morris, George Oswald, to Imperial Chemical Industries Limited. Catalytic process for preparing alkyl chlorides or bromides. 3,484,495, 12-16-69, Cl. 260-657.
Carson, William N., to General Electric Company. Battery discharge control. 3,422,337, 1-14-69, Cl. 320-14.
Carsten, Paul W., to Aquamation Inc. Pilot actuated valve. 3,460,798, 8-12-69, Cl. 251-30.
Carstens, Jorgen V. Method of delivering superimposed folded sheets as prepared books. 3,441,267, 4-29-69, Cl. 270-45.
Carstens Manufacturing Company: *See*—
Olsen, Edwin J., 3,472,387.
Carstensen, Jens Thuroe; Newmark, Harold Leon; and Vance, John James, to Hoffmann-La Roche Inc. Stable compositions containing eicosatetrayn-(5,8, 11,14)-oic-(1) acid and derivatives thereof. 3,450,821, 6-17-69, Cl. 424-318.
Carstensen, Jens Thuroe; Sheth, Prabhakar Ranchhordas; and Vance, John James, to Hoffmann-La Roche Inc. Tablets containing 7-chloro-2-methylamino-5- phenyl-3H-1,4-benzodiazepine-4-oxide and conjugated estrogenic substances. 3,487,152, 12-30-69, Cl. 424-240.
Carstensen, John P., to Monsanto Company. Sodium carbonate-free phenol-formaldehyde adhesive compositions. 3,450,651, 6-17-69, Cl. 260-7.
Carstensen, Kenneth J.: *See*—
Hauk, Ernest D., 3,478,577.
Carstensen, Walter H.; and Davey, Donald G. Fluid-operated clutch. 3,444,972, 5-20-69, Cl. 192-85.
Carston, Walter. Earth moving machine incorporating power off-loading system. 3,486,251, 12-30-69, Cl. 37-4.
Cart, Eldred N., Jr.: *See*—
Chaney, Allen L.; and Cart, Eldred N., Jr.,3,443,908.
Cart-Trac, Inc.: *See*—
Miller, Eugene M.; and Kelley, Jerry O., 3,453,397.
Carta, Mario: *See*—
Ferrara, Gianfranco; Del Fa', Clemente; Carta, Mario; and Ciccu, Raimondo,3,476,243.
Cartem Engineering Limited: *See*—
Morgan, John F., 3,451,582.
Carter, A. B., Incorporated: *See*—
Goins, Buren L.; Lewis, Hazel W.; and Dellinger, Larry D., 3,427,057.
Carter, Alan W.: *See*—
Page, Archer G.; and Carter, Alan W.,3,440,517.
Carter, Alfred M. Combined load leveler and overload device. 3,462,169, 8-19-69, Cl. 280-124.
Carter, Anthony F.: *See*—
Blattner, Ernest W.; Boettcher, Harry H.; Carter, Anthony F.; Heitmann, Arnold M.; Holt, Wainwright, Jr.; and Wilson, David G.,3,424,372.
Carter, C. L.: *See*—
Lott, Chancy M., 3,440,781.
Carter, Carl W.; and Johnson, Lloyd E., to Caterpillar Tractor Company. Lubrication system for a gas turbine engine. 3,486,582, 12-30-69, Cl. 184-6.
Carter, Cecil O.: *See*—
Hutson, Thomas, Jr.; and Carter, Cecil O.,3,476,825.
Hutson, Tom, Jr.; and Carter, Cecil O.,3,435,092.
Carter, Charles G.; and Reynolds, Marvin G. Apparatus for preparing french fried potatoes. 3,470,830, 10-7-69, Cl. 107-14.
Carter, Charles I.: *See*—
Wannamaker, Thomas M.; Carter, Charles I.; and Rogers, Rupert O.,3,428,239.
Carter, Clarence F., to Carter Engineering Company. Method and apparatus for filling containers. 3,421,554, 1-14-69, Cl. 141-7.
Carter, Clarence F.; and Carter, Robert E., to Carter Engineering Company. Methods and apparatus for weighing material in a vacuum environment. 3,430,720, 3-4-69, Cl. 177-1.
Carter, Claud W., Jr., to Duo-Vend Corporation. Card dispensing apparatus. 3,439,834, 4-22-69, Cl. 221-7.
Carter, Crawford F.: *See*—
Preston, Raymond A.; and Carter, Crawford F.,3,472,770.
Carter, Cyril L. Jet pump booster. 3,457,863, 7-29-69, Cl. 103-5.
Carter, Daniel T., to United States Steel Corporation. Apparatus for continuously electroplating a metallic strip. 3,483,113, 12-9-69, Cl. 204-206.

Carter, Donald E., to Combustion Engineering, Inc. Descaling process and material. 3,475,230, 10-28-69, Cl. 148-13.1
Carter, Donald E.; and Hurst, Kenneth, to Combustion Engineering, Inc. Descaling process and material. 3,475,231, 10-28-69, Cl. 148-13.1
Carter, Dustin W.: *See—*
Butler, Charles A.; and Carter, Dustin W.,3,463,420.
Carter, Edward M.: *See—*
Russell, Carl D., 3,475,081.
Carter, Elbert P., to Du Pont de Nemours, E. I., and Company. Method of reducing electrostatic charges on film structures. 3,474,292, 10-21-69, Cl. 317-2.
Carter Engineering Company: *See—*
Carter, Clarence F., 3,421,554.
Carter, Clarence F.; and Carter, Robert E., 3,430,720.
Carter, Ernest P.: *See—*
Emerson, Paul D.; and Carter, Ernest P.,3,461,492.
Otstot, Roger S.; and Carter, Ernest P.,3,453,688.
Carter, Ernest P.; and Bell, Robert P., Jr., to Monsanto Company. Filament supply system. 3,425,460, 2-4-69, Cl. 139-100.
Carter, Frank H. Grip and twist bottle cap remover. 3,453,911, 7-8-69, Cl. 18-3.42
Carter, Frederick H. N.; Martinson, William V.; and Olsson, Sven M. J. Furnace construction. 3,429,973, 2-25-69, Cl. 13-9.
Carter, George Harold, to Redland Tiles Limited. Tiled roofs. 3,434,260, 3-25-69, Cl. 52-471.
Carter, George J. Nonpercussive viscous-shear milling process for platy materials. 3,446,442, 5-27-69, Cl. 241-15.
Carter, George W., to RCA Corporation. Gain control biasing circuits for field-effect transistors. 3,480,873, 11-25-69, Cl. 330-29.
Carter, Gerald E.: *See—*
Oliver, Alton D.; and Carter, Gerald E.,3,463,185.
Carter, Giles F., to Du Pont de Nemours, E. I., and Company. Alloy diffusion coating process. 3,467,545, 9-16-69, Cl. 117-114.
Carter, Giles F., to Du Pont de Nemours, E. I., and Company. Alloy diffusion coating process. 3,481,769, 12-2-69, Cl. 117-114.
Carter, Herbert A.: *See—*
Ayers, Orval E.; Huskins, Chester W.; and Carter, Herbert A.,3,432,444.
Carter, Ivor John; and Jelley, Robert J., to Elliott Brothers (London) Limited. Aligning means for pitot-static probe. 3,474,669, 10-28-69, Cl. 73-178.
Carter, Jack D. Fork lift attachment for a movable bucket. 3,421,642, 1-14-69, Cl. 214-145.
Carter, Jack M.: *See—*
Brown, Neuberne H., Jr.; Butler, David P.; Carter, Jack M.; Ferik, Michael; and Ogle, Paul E.,3,427,997.
Satterwhite, William A.; Carter, Jack M.; and Carey, Thomas L.,3,455,651.
Carter, James B., Ltd.: *See—*
McKay, David; and Kandera, Alfred G., 3,470,352.
Carter, James G.; and Christophorou, Loukas G., to United States of America, Atomic Energy Commission. Excimer scintillators. 3,444,089, 5-13-69, Cl. 252-301.2
Carter, James L.; and Hofmann, John E. Filler material for acetylene cylinders. 3,475,189, 10-28-69, Cl. 106-118.
Carter, James L.; and Savini, Charles G., to Esso Research and Engineering Company. Ammonia synthesis catalyst. 3,472,794, 10-14-69, Cl. 252-459.
Carter, James L.; and Sinfelt, John H., to Esso Research and Engineering Company. Reforming-aromatization process with sulfided catalyst. 3,424,669, 1-28-69, Cl. 208-65.
Carter, Jennings Faulk. Electric hair singer. 3,474,224, 10-21-69, Cl. 219-223.
Carter, John Anthony; and Tyler, Geoffrey James, to British Nylon Spinners Limited. Manufacture of polyamides from aromatic dicarboxylic acids. 3,475,387, 10-28-69, Cl. 260-78.
Carter, John N. Adjustable drill assembly. 3,485,311, 12-23-69, Cl. 175-382.
Carter, John W.: *See—*
Beyers, Marvin E.; Brown, Mackenzie P.; Carter, John W.; Junck, John A.; Lauterbach, Jerre F.; and Winters, Frank H.,3,463,190.
Breitbarth, William W.; Carter, John W.; and Costa, Philip J.,3,454,101.
Carter, Joseph F.: *See—*
Baker, William J.; and Carter, Joseph F.,3,443,647.
Carter, Joseph H., to Carter Machine & Tool Company. Combination toy wheel and bearing construction. 3,473,259, 10-21-69, Cl. 46-221.
Carter, Leewood C.: *See—*
Mullen, Edward K.; and Carter, Leewood C.,3,476,406.
Carter Machine & Tool Company: *See—*
Carter, Joseph H., 3,473,259.
Carter, Mary E.; and Price, John A., to FMC Corporation. Direct esterification method. 3,425,995, 2-4-69, Cl. 260-75.
Carter, Mary E.; and Price, John A., to FMC Corporation. Hexafluorophosphates as first stage additives. 3,425,996, 2-4-69, Cl. 260-75.
Carter, Mary E.; and Price, John A., to FMC Corporation. Process of preparing polyethylene terephthalate using metal silicates as catalyst. 3,451,970, 6-24-69, Cl. 260-75.
Carter, Mary E.; and Price, John A., to FMC Corporation. Process of preparing polyethylene terephthalate using alkali metal thiocyanate or alkaline earth metal thiocyanate direct esterification additives. 3,457,238, 7-22-69, Cl. 260-75.
Carter, Mary E.; and Price, John A., to FMC Corporation. Direct esterification method of preparing polyethylene terephthalate with an ammonium or metal salt of ethylenediaminetetraacetic acid. 3,479,324, 11-18-69, Cl. 260-75.
Carter, Mary E.: *See—*
Price, John A.; and Carter, Mary E.,3,475,381.
Carter, Melvin W.; and Wiser, Emery L. Sewage disposal process and system for meat packing wastes. 3,429,806, 2-25-69, Cl. 210-3.
Carter, Morris B.: *See—*
Kellar, Arnold A.; and Carter, Morris B.,3,429,759.
Carter, Neil A., to Cenco Instruments Corporation. Baffle assembly and method of forming same. 3,460,580, 8-12-69, Cl. 138-42.
Carter, Paul H.; Marion, Thomas E.; Morse, Raymond L.; and Doty, William T., to Universal Machine Co., Inc. Machine for applying film cover to containers. 3,460,317, 8-12-69, Cl. 53-329.
Carter, Ralph E., to General Electric Company. Glower lamp and process. 3,429,832, 2-25-69, Cl. 252-520.
Carter, Raymond H.: *See—*
Brehm, Paul Donald; and Carter, Raymond H.,3,421,224.
Carter, Richard James: *See—*
Manger, Charles Frederick; Klee, John Michael; and Carter, Richard James,3,442,100.
Carter, Richard P., Jr., to Monsanto Company. Builders for synthetic detergents. 3,459,670, 8-5-69, Cl. 252-99.
Carter, Richard P., Jr.; and Irani, Riyad R., to Monsanto Company. Builders for synthetic detergents. 3,463,734, 8-26-69, Cl. 252-99.
Carter, Richard P., Jr.; Irani, Riyad R.; and Mitchell, Robert S., to Monsanto Company. Process for preparing phosphonic acids. 3,449,410, 6-10-69, Cl. 260-502.4
Carter, Richard S., to International Business Machines Corporation. Overlapping boundary storage. 3,440,615, 4-22-69, Cl. 340-172.5
Carter, Robert E.: *See—*
Carter, Clarence F.; and Carter, Robert E.,3,430,720.
Carter, Roland Charles Elie, to Societe d'Exploitation et de Recherches de Machines et Appareils Specialises ERMAP. Machine for stowing bottles or flasks in an orderly position from a batch of bottles or flasks in bulk. 3,425,530, 2-4-69, Cl. 198-33.
Carter, Rollins S.: *See—*
Burdge, Sam W.; and Carter, Rollins S.,3,429,034.
Carter, Ronald Philip: *See—*
Cowin, William Alan; and Carter, Ronald Philip,3,469,196.
Carter, Russell E., to Omark Industries, Inc. Rectilinear sharpener. 3,457,969, 7-29-69, Cl. 143-32.
Carter, Russell P., Jr., to Goodyear Tire & Rubber Company, The. Composition prepared from polyvinyl chloride and a cured polyurethane. 3,487,126, 12-30-69, Cl. 260-859.
Carter, Stephen Barnaby, to Imperial Chemical Industries Limited. Microscope slides and method of manufacturing. 3,445,152, 5-20-69, Cl. 350-95.
Carter, Theodore: *See—*
Carr, Frank B.; Carter, Theodore; Raeburn, Robert A.; and De Chistino, Albert J.,3,455,042.
Carter, Thomas A., 30% to Swope, Robert S., and 5% to Eriksen, Richard E. Linear motor-generator. 3,487,241, 12-30-69, Cl. 310-13.
Carter, Uriel F., deceased (by Carter, Ruth, administratrix); Kolb, Arthur F.; and Kunath, Elmer M., to Cutler-Hammer, Inc. Electrical circuit overload protective device. 3,478,292, 11-11-69, Cl. 337-151.
Carter, William A., to I-T-E Imperial Corporation. Selectively positioned interposed vertical transfer gap. 3,452,173, 6-24-69, Cl. 200-147.
Carter, William, Company, The: *See—*
Morin, Joseph F., 3,482,537.
Carter, William H.: *See—*
Cooke, Edward A.; and Carter, William H.,3,450,046.
Carter, William J., Jr., to Aro of Buffalo, Incorporated. Mobile underwater power plant. 3,473,337, 10-21-69, Cl. 61-69.
Carter, William L. Calorie-gram indicator and alarm. 3,433,406, 3-18-69, Cl. 235-128.
Carter, William L. Weight control aid. 3,433,407, 3-18-69, Cl. 235-128.
Carter, Zoma Vaughn. Car window arm rest. 3,451,717, 6-24-69, Cl. 296-153.
Carter-Wallace, Inc.: *See—*
Berger, Frank M.; Rosselet, Jean P.; and Ludwig, Bernard J., 3,483,290.
Dille, James M.; Stiefel, Frank J.; and Meyer, Mervin, 3,428,638.
Gowen, Richard J., 3,482,565.
Ludwi, Bernard J.; Diamond, Julius; and Skinner, Wilfred A., Jr., 3,420,890.

Reich, Irving; and Breuer, Hans, 3,484,378.
Carter's Ink Company, The:*See—*
Coppeta, Leonard T., 3,432,446.
Lennon, Donald Joseph John; and Schleifstein, Harvey G., 3,471,387.
Cartier, Gaston. Small electric motors having permanent magnets. 3,444,402, 5-13-69, Cl. 310-43.
Cartier, Gaston. Electric motor having claw tooth type stator. 3,459,982, 8-5-69, Cl. 310-164.
Cartier, Gaston. Electric motor-reduction gear assembly. 3,469,128, 9-23-69, Cl. 310-83.
Cartiera di Cairate S.p.A.: *See—*
Shapira, Nathan, 3,425,595.
Cartledge, Clive: *See—*
Wholton, Reginald F.; and Cartledge, Clive,3,435,637.
Carton, Edwin B., to Polymer Dispersions, Inc., mesne. Process of preparing isotactic polypropylene and carbon black mixtures. 3,422,056, 1-14-69, Cl. 260-41.
Carton, Jean, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Continuous copper wire-making process. 3,478,810, 11-18-6, Cl. 164-87.
Cartwright, Horace A. Spray nozzle and alignment arrangement therefor. 3,447,755, 6-3-69, Cl. 239-551.
Cartwright, John A.: *See—*
Richards, Claude L.; Cartwright, John A.; and Pearce, Graham,3,432,799.
Cartwright, John N., to General Motors Corporation. Prestressed shaft. 3,466,895, 9-16-69, Cl. 64-1.
Cartwright, Robert B. Instruction system for physical endeavors. 3,453,746, 7-8-69, Cl. 35-29.
Cartwright, William G. Skid chain tightener. 3,422,871, 1-21-69, Cl. 152-217.
Cartwright, William J., to Continental Can Company, Inc. Can transfer mechanism. 3,469,670, 9-30-69, Cl. 198-22.
Caruel, Jacques Emile Jules: *See—*
Quillevere, Herve Alain; and Caruel, Jacques Emile Jules,3,440,818.
Caruel, Jacques Emile Jules; and Lacroix, Armand Jean-Baptiste, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Wall element for combustion chambers. 3,447,318, 6-3-69, Cl. 60-39.65
Caruso, Anthony J.: *See—*
Barrington, Alfred E.; and Caruso, Anthony J.,3,469,375.
Caruso, Michael G.: *See—*
Frishman, Daniel; and Caruso, Michael G.,3,467,110.
Caruthers, Felix P. Temperature compensated photosensor system. 3,421,009, 1-7-69, Cl. 250-217.
Caruthers, Willim H., Jr.; and Pennington, Louis E., to Reynolds Metals Company. Cryogenic constructions and methods for making the same. 3,433,384, 3-18-69, Cl. 220-14.
Carvalho, Dorothy Ann Livingston, to American Cyanamid Company. Method of making boron-nitrogen compounds. 3,475,138, 10-28-69, Cl. 23-358.
Carvalho, Dorothy Ann; Hauser, Martin; Schriffert, Edward John; and Sprague, George Sidney, to American Cyanamid Company. Polyester resins. 3,431,151, 3-4-69, Cl. 149-19.
Carvallo, Pierre. Method of uniting mechanical parts by welding. 3,469,303, 9-30-69, Cl. 29-484.
Carvallo, Pierre. Method of processing cereals, more particularly for whitening and polishing rice, and apparatus for performing the same. 3,478,798, 11-18-69, Cl. 146-264.
Carver, Norman E.; and Silver, Joseph M., to Ogden Iron Works Company. Machine for cleaning sugar beet samples. 3,440,674, 4-29-69, Cl. 15-3.14
Carver, Richard N.: *See—*
Lohr, Raymond J.; Hubiak, Walter; and Carver, Richard N.,3,453,921.
Cary, Audra B.: *See—*
Everhart, Clifford R.; and Cary, Audra B.,3,437,146.
Cary, Boyd B.: *See—*
Rubega, Robert A.; and Cary, Boyd B.,3,444,509.
Cary, Francis H., to General Signal Corporation, mesne. Torque declutching and switch mechanism. 3,429,406, 2-25-69, Cl. 192-0.034
Cary, Francis H. Power stop in response to overload. 3,460,018, 8-5-69, Cl. 318-475.
Cary, Francis H.; Miner, Irving O.; and Szilagyi, Dezso, to New York Air Brake Company, The. Low torque butterfly valve. 3,442,489, 5-6-69, Cl. 251-305.
Cary, Henry H., to Cary Instruments. Infrared radiation detector employing tensioned foil to receive radiation. 3,457,412, 7-22-69, Cl. 250-83.3
Cary Instruments: *See—*
Cary, Henry H., 3,457,412.
Cary, James E.; and Swenson, Harvey F., to Sweden Freezer Manufacturing Co. Hemodialysis system. 3,457,944, 7-29-69, Cl. 137-341.
Cary, James E.; and Swenson, Harvey F., to Sweden Freezer Manufacturing Co. Dialysis control system. 3,474,907, 10-28-69, Cl. 210-103.
Cary, John T., to Continental Can Company, Inc. Rotary conductor. 3,431,532, 3-4-69, Cl. 339-8.
Cary, Paul O. Hand operated sectioning machine. 3,467,075, 9-16-69, Cl. 125-13.
Cary, William E., Limited: *See—*
Dixon, Roland, 3,452,974.
Casad, Burton M.: *See—*
Every, Richard L.; Thieme, James O.; and Casad, Burton M.,3,437,451.
Hudgins, Charles M., Jr.; Casad, Burton M.; and Haden, Elard L.,3,424,662.
Casadio, Silvano, to Istituto de Angeli S.p.A.Quaternary salts of basic esters of β-(1-naphthyl, -acrylic acid. 3,420,822, 1-7-69, Cl. 260-240.
Casanova, Frank A.: *See—*
Marczak, Thaddeus S.; and Casanova, Frank A.,3,425,596.
Casaroll, Eugene A.: *See—*
Welch, Russel A., Sr., 3,443,061.
Welch, Russel A., Sr., 3,443,062.
Casas-Robert, Ramon, to Mefina S.A. Lock-stitch sewing machine convertible to a chain stitch sewing machine. 3,428,008, 2-18-69, Cl. 112-168.
Cascade Corporation: *See—*
Dixon, Thomas E., 3,462,122.
Dixon, Thomas E.; Faust, Donald M.; and Frey, Max, 3,476,016.
Farmer, Stanley E.; and Dixon, Thomas E., 3,473,442.
Faust, Donald M.; and Chochrek, Henry F., 3,449,009.
Faust, Donald M., 3,458,075.
Frey, Max, 3,421,641.
Kroupa, Robert J., 3,460,700.
Nutter, Ralph E., 3,438,308.
Nutter, Ralph E., 3,438,525.
Cascade Industries, Incorporated: *See—*
Adam, Charles R.; and West, Robert E., 3,440,780.
West, Robert E., 3,425,388.
Cascione, Alexander S.: *See—*
Reich, Ismar M.; and Cascione, Alexander S.,3,421,906.
Casciotti, Albert: *See—*
Baker, Charles Edward, II; and Casciotti, Albert,3,440,597.
Casco Products Corporation: *See—*
Boudreau, John L., 3,462,721.
Bristol, Robert E.; and Boudreau, John L., 3,462,581.
Horwitt, Laurence G., 3,424,414.
Horwitt, Laurence G., 3,433,928.
Horwitt, Laurence G., 3,439,148.
Horwitt, Laurence G., 3,448,779.
Krenke, Vincent G., 3,433,969.
Case, Alfred L., to Versitron, Inc. Photoelectric relay using positive feedback. 3,462,606, 8-19-69, Cl. 250-214.
Case, Cecil L., to Hesston Corporation, Inc. Speed, steering and direction control for vehicles. 3,431,993, 3-11-69, Cl. 180-6.48
Case, Cecil L., to Hesston Corporation, Inc. Tension assembly for crop conditioner. 3,472,003, 10-14-69, Cl. 56-1.
Case, Charles A. Method and apparatus for treating flowing sewage in a nitrification line. 3,422,010, 1-14-69, Cl. 210-50.
Case, David A., to Walker Manufacturing Company. Laminated conduit and acoustic silencer. 3,429,397, 2-25-69, Cl. 181-48.
Case, Edward Murray: *See—*
Zumeta, Julio; and Case, Edward Murray,3,438,841.
Case, Forrest N.: *See—*
Acree, Elick H.; and Case, Forrest N.,3,426,205.
Case, Forrest N., to United States of America, Atomic Energy Commission. Method and filter for removing iodine from gases. 3,429,655, 2-25-69, Cl. 23-2.
Case, Forrest N.; Mackey, Thomas S.; and McFarland, Clyde E., to United States of America, Atomic Energy Commission. Method of making a strontium-90 radiation source. 3,431,328, 3-4-69, Cl. 264-0.5
Case Foundation Company: *See—*
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P., 3,430,448.
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P., 3,436,921.
Case Institute of Technology: *See—*
Mergler, Harry W., 3,433,065.
Case, J. I., Company: *See—*
Aiello, Salvatore F.; and Barth, John W., 3,448,820.
Auchard, Gerald V., 3,478,831.
Avis, John M.; and Dorman, Hugh H., 3,478,910.
Batog, Stephen L., 3,442,070.
Bennett, Milton C.; and Kulhavy, Joseph A., 3,435,901.
Bislew, John E., 3,469,472.
Boston, Charlie L., 3,431,793.
Boston, Charlie L., 3,437,373.
Brown, Marvin L.; and Pedersen, Carl O., 3,450,422.
Bulin, Shelley A., 3,442,068.
Bulin, Shelly A., 3,420,238.
Bushmeyer, Richard W., 3,430,584.
Bushmeyer, Richard W., 3,467,002.

Cagle, Wesley J., 3,484,119.
Dahlquist, Robert L., 3,478,750.
Daniels, Guy L., 3,442,178.
Dargitz, Harvey J., 3,420,259.
Davidow, Martin A.; and Rathje, Allan J., 3,439,684.
Davidow, Martin A.; and Klee, Maurice, 3,478,749.
Dollase, William R., 3,464,061.
Evans, Thomas, 3,444,673.
Evans, Thomas, 3,470,682.
Gipp, Wilbert O., 3,438,672.
Goth, Gary J., 3,432,057.
Harding, Ray S., 3,455,011.
Harris, Boliver T., 3,424,014.
Ista, Myron H., 3,441,255.
Larsen, Gary V., 3,433,230.
Lawson, William J., 3,482,164.
Lehmann, Harold Adolf, 3,433,240.
Linkin, Rodney D., 3,486,419.
Long, Elton B., 3,436,099.
Louthan, George R., 3,423,915.
Manke, Raymond F., 3,440,739.
Mays, Vance H.; and Lemke, James H., 3,468,180.
Mays, Vance H., 3,479,900.
Mc Guire, Robert L., 3,448,821.
Mott, Richard H., 3,425,356.
Omon, Gene L., 3,420,393.
Omon, Gene L., 3,433,502.
Omon, Gene L., 3,435,974.
Payne, Amos O., 3,460,399.
Payne, Amos O., 3,472,377.
Payne, Amos O., 3,472,378.
Potzsch, Wolfgang R., 3,425,195.
Schaible, Aaron M.; and Langdon, John E., 3,437,311.
Schlue, Frank W., Jr., 3,435,953.
Tilbury, Lawrence E.; and Maple, Steven E., 3,480,085.
Todd, Robert R., 3,464,471.
Venable, Phillip G., 3,424,339.
Venable, Phillip G., 3,462,973.
Wyatt, Harold M., 3,477,535.
Yeske, Laurel R.; and Christopher, John G., 3,462,923.
Yeske, Laurel R., 3,470,683.

Case, John H. Means for cleaning cotton lint. 3,432,892, 3-18-69, Cl. 19-203.

Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen, to Imperial Chemical Industries Limited. Treatment of textiles. 3,458,273, 7-29-69, Cl. 8-139.

Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen, to Imperial Chemical Industries Limited. Treatment of textiles. 3,476,504, 11-4-69, Cl. 8-138.

Case, Laura Kaiser: *See—*
Case, Leslie Catron; and Case, Laura Kaiser,3,483,169.
Case, Leslie C.; and Case, Laura K.,3,454,530.

Case, Leslie Catron; and Case, Laura Kaiser. Polyester-polyethers and process of preparing the same. 3,483,169, 12-9-69, Cl. 260-78.4

Case, Leslie C. Fluid composition from maleic anhydride and carboxyl-terminated compositions. 3,427,255, 2-11-69, Cl. 252-426.

Case, Leslie C. Acids curing agents for organic polyepoxides. 3,487,027, 12-30-69, Cl. 252-431.

Case, Leslie C.; and Case, Laura K. Novel polyols which are reaction porducts of a monoepoxide and a cyclic monoanhydride. 3,454,530, 7-8-69, Cl. 260-75.

Case, Walter; and Benefield, William F. Brake setting device. 3,482,666, 12-9-69, Cl. 188-265.

Case, William H. Pressure-vacuum cleaning and treating device. 3,484,890, 12-23-69, Cl. 15-346.

Casebeer, Oran T., to Eastman Kodak Company. Footage indicator for a perforated film strip in which the sprocket holes are sensed using nonactinic radiation. 3,467,827, 9-16-69, Cl. 250-214.

Casebolt, George Sims, to American Cyanamid Company. Process for the manufacture of benzoguanamine- melamine-formaldehyde filled molding compositions. 3,454,529, 7-8-69, Cl. 260-67.6

Casebolt, Ralph T. Drip assembly for shower door. 3,449,770, 6-17-69, Cl. 4-154.

Casebolt, Ralph T.; and Rystad, Arnold O., to Bronson, Agalite, Company. Panel mounting bracket. 3,481,572, 12-2-69, Cl. 248-226.

Caselli, Orland J.: *See—*
Brockhage, Donald J., 3,425,580.

Casely, Robert W.; and Noel, Darwin R., to Armour and Company. Synergistic combination of a halogenated bisphenol and polyhalosalicylanilide. 3,445,397, 5-20-69, Cl. 252-106.

Casey, Dahl B.: *See—*
Jarvis, Edwin W.; and Casey, Dahl B.,3,474,842.

Casey, Edward H.; and McConnell, Charles K., to ACF Industries, Incorporated. Fuel injection system. 3,482,558, 12-9-69, Cl. 123-139.

Casey, Harry B.; Woods, John G.; and Wood, George W., to TRW Inc. Subminiature trimmer potentiometer. 3,484,734, 12-16-69, Cl. 338-162.

Casey, Horace C., Jr.; and Panish, Morton B., to Bell Telephone Laboratories, Incorporated. Method and source composition for reproducible diffusion of zinc into gallium arsenide. 3,485,685, 12-23-69, Cl. 148-189.

Casey, James H., to Minnesota Mining and Manufacturing Company. Apparatus for severing tape. 3,472,724, 10-14-69, Cl. 156-521.

Casey, John A. Evaporator scale prevention in sugar manufacture. 3,483,033, 12-9-69, Cl. 127-61.

Casey, John B., to Western Electric Company, Incorporated. System for adjusting operating and release sensitivities of magnetically biased relay armatures. 3,479,584, 11-18-69, Cl. 324-28.

Casey, Lewis O., to United States of America, National Aeronautics and Space Administration. Electrical load protection device. 3,448,341, 6-3-69, Cl. 317-31.

Casey, Lloyd: *See—*
Hutchinson, Joseph; and Casey, Lloyd,3,485,567.

Casey, Robert T., to General Electric Company. Electric circuit breaker including sensing means operated by the operating handle. 3,425,007, 1-28-69, Cl. 335-11.

Casey, Robert, to Caterpillar Tractor Company. Wheel drive mechanism. 3,452,612, 7-1-69, Cl. 74-391.

Casey, William J., to Amsted Industries, Incorporated. Railway brake safety device. 3,448,837, 6-10-69, Cl. 188-210.

Cash, David R., to Cash, James, Machine Co. Quilting machine guide-track. 3,421,464, 1-14-69, Cl. 112-118.

Cash, David R., to Cash, James, Machine Co. Quilting machine of the shiftable guide-track type. 3,426,710, 2-11-69, Cl. 112-118.

Cash, David R., to Cash, James Machine Co. Automatic needle retracting quilting machine. 3,442,234, 5-6-69, Cl. 112-118.

Cash, David R., to Cash, James, Machine Co. Presser foot adjusting means. 3,473,497, 10-21-69, Cl. 112-239.

Cash, George O., Jr.; and Joyner, Frederick B., to Eastman Kodak Company. Polyolefin compositions and their preparation. 3,432,514, 3-11-69, Cl. 260-93.7

Cash, James, Machine Co.: *See—*
Cash, David R., 3,421,464.
Cash, David R., 3,426,710.
Cash, David R., 3,442,234.
Cash, David R., 3,473,497.

Cashen, Terry F.; and Hermelin, Marc S. Furniture. 3,476,497, 11-4-69, Cl. 297-232.

Cashion, Kenneth D. Solar optical telescope dome control system. 3,421,004, 1-7-69, Cl. 250-203.

Cashman, Donald Edward; and Remler, Harry Earl, to Drackett Company, The, mesne. Stabilized solid granular perfume composition. 3,449,266, 6-10-69, Cl. 252-522.

Cashman, Edward P.; and Schneider, Nicholas M., to Esso Research and Engineering Company. Retarding water evaporation from storage reservoirs. 3,458,274, 7-29-69, Cl. 21-60.5

Cashman, Robert W.; and Wasco, Anthony, Jr., to Saginaw Machine and Tool Company. Tool construction. 3,436,800, 4-8-69, Cl. 29-97.

Cashore, Louis J. Cord tensioning device. 3,473,757, 10-21-69, Cl. 242-150.

Caskey, Elmer L., to Trojan Manufacturing Company, Inc. Tool for relieving air entrapments. 3,481,226, 12-2-69, Cl. 81-3.

Casko, Robert E., to American Optical Corporation. Method of making lens molds. 3,460,928, 8-12-69, Cl. 65-39.

Casner, Bernard G.; and Goulstone, Ray T., to Western Electric Company, Incorporated. Methods and apparatus for the magnetic separation of fine parts. 3,474,904, 10-28-69, Cl. 209-111.8

Casolo, Angelo J.: *See—*
Rajan, Krishnaswamy S.; and Casolo, Angelo J.,3,479,266.
Rajan, Krishnaswamy S.; and Casolo, Angelo J.,3,479,267.

Cason, Charles M., III: *See—*
Barr, Thomas A., Jr.; and Cason, Charles M., III,3,478,583.
Ehrlich, John J.; Hutcheson, Guilford J., Jr.; Rust, Charles M.; Roberts, Thomas G.; and Cason, Charles M., III,3,464,267.

Cason, Charles M., III, to United States of America, Army. Low pressure gas density fluctuation spectrometer using an amplitude modulated electron beam to induce luminousity in the gas. 3,487,466, 12-30-69, Cl. 250-71.

Cason, Charles M. System for instantaneously measuring jet thrust. 3,465,579, 9-9-69, Cl. 73-117.4

Casparis, Hermann. Apparatus for the production of orthopedic footrest or support. 3,458,898, 8-5-69, Cl. 18-5.1

Casper, Ray K.; and Lindelof, Leonard A., to Longyear, E. J., Company. Offset core lifter apparatus. 3,428,138, 2-18-69, Cl. 175-255.

Casper, Ray K.; and Linn, Albert L., to Longyear, E. J., Company. Wire line core barrel apparatus. 3,461,981, 8-19-69, Cl. 175-246.

Caspers, John: *See—*
Newman, Julian; Caspers, John; Gambro, John; and Freiling, Jerome G.,3,487,006.

Caspersson, Torbjorn Oskar; and Lomakka, Gosta Mattias. Apparatus for photometric analysis. 3,446,562, 5-27-69, Cl. 356-222.

Cass, Herbert A., to Eckrich, Peter, and Sons, Inc. Fixture for displaying packaged products. 3,442,396, 5-6-69, Cl. 211-59.

Cass, James L., to Singer-General Precision, Inc. Associative data processing system. 3,456,243, 7-15-69, Cl. 340-172.5

Cass, Jules S. Costume jewelry novelty for attachment to bathing garments or the like. 3,456,457, 7-22-69, Cl. 63-2.
Cass, Le A.: *See—*
Dropkin, David; O'Connor, Thomas J.; Cass, Le A.; and Comfort, Edward H.,3,453,880.
Cass, Louis G.: *See—*
Caldwell, Robert E.; and Cass, Louis G.,3,479,477.
Cass, Ralph Sidney, to Leach Corporation. Single belt drive. 3,447,729, 6-3-69, Cl. 226-49.
Cass, Richard: *See—*
Herbenar, Edward J.; and Cass, Richard,3,486,778.
Herbenar, Edward J.; Cass, Richard; and Kutcher, Eugene R.,3,430,995.
Cassa, Nicholas A., Jr. Golf swing training device. 3,460,837, 8-12-69, Cl. 273-186.
Cassady, Charles G., to Bell Telephone Laboratories, Incorporated. Soft start circuit for power supply circuits. 3,458,796, 7-29-69, Cl. 321-5.
Cassady, Clarence T.; and Bobb, Russell V., to Reynolds Metals Company. Extrusion of composite metal articles. 3,457,760, 7-29-69, Cl. 72-258.
Cassady, Donald R.; Dillard, Robert D.; and Easton, Nelson R., to Lilly, Eli, and Company. 1,1 Diaryl-2-propynyl carbamates. 3,436,402, 4-1-69, Cl. 260-326.3
Cassagne, Pierre; Besse, Jean; and Finet, Jean. Periodic demagnetization of color cathode ray tube aboard moving vehicle. 3,439,211, 4-15-69, Cl. 315-8.
Cassan, Michel, to Societe Anonyme Dupont. Ignition system for gas lighters. 3,439,994, 4-22-69, Cl. 431-254.
Cassano, James R., to Xerox Corporation. Sheet counting system in a reproduction machine. 3,430,558, 3-4-69, Cl. 101-132.
Cassano, James R., to Xerox Corporation. Sorting apparatus for documents. 3,484,101, 12-16-69, Cl. 271-64.
Cassaretto, Frank P.: *See—*
Moore, Carl E.; Cassaretto, Frank P.; McLafferty, John J.; and Posvic, Harvey W.,3,468,959.
Cassaro, Charles: *See—*
Saiia, Samuel N.; and Chiusolo, Louis L., 3,445,322.
Cassel, Norman S.: *See—*
Smith, Daniel; and Cassel, Norman S.,3,443,515.
Cassel, Richard L., to United States of America, Atomic Energy Commission. Rectifier for accelerator magnets. 3,421,071, 1-7-69, Cl. 321-26.
Cassel, Thomas R., to General Motors Corporation. Connection for tubular members. 3,468,560, 9-23-69, Cl. 285-21.
Cassell, Joseph L., to Automatic Fire Alarm Company. Cam construction. 3,433,090, 3-18-69, Cl. 74-567.
Cassella Farbwerke Mainkur Aktiengesellschaft: *See—*
Konig, Hans-Joachim; Bodenstedt, Wolfgang; and Gotsmann, Ulrich, 3,442,999.
Mix, Konrad; and Heid, Christian, 3,473,883.
Ritter, Heinrich; Heinrich, Ernst; von Brachel, Hanswilli; and Kindler, Horst, 3,487,066.
von Brachel, Hanswilli; and Kindler, Horst, 3,424,752.
Von Brachel, Hanswilli; and Hintermeier, Karl, 3,448,111.
Von Brachel, Hanswilli; and Hintermeier, Karl, 3,463,821.
Von Brachel, Hanswilli; and Engelhardt, Fritz, 3,476,717.
Cassera, Giorgio: *See—*
Negri, Emilio; and Cassera, Giorgio,3,461,664.
Casshic, Tony R.: *See—*
Phillips, Gordon; and Casshie, Tony R.,3,427,266.
Cassidy, Patrick J.; and Quammen, Milton L., to United States of America, Army. Binocular interpupillary hinge assembly with frictional O-rings. 3,431,043, 3-4-69, Cl. 350-75.
Cassie, Norman M.: *See—*
Aulik, Robert F.; and Cassie, Norman M.,3,484,336.
Cassiers, Paul Maria; Noe, Robert Joseph; and Van Engeland, Jozef Leonard, to Gevaert-Agfa N.V., and Agfa-Gevaert Aktiengesellschaft. Development of electrostatic patterns with aqueous conductive developing liquid. 3,486,922, 12-30-69, Cl. 117-37.
Cassiers, Paul Maria; Rott, Andre; Meeussen, Louis Achilles; and Van Engeland, Jozef Leonard, to Gevaert Photo-Producten N.V. Process for developing electrostatic charge patterns. 3,472,676, 10-14-69, Cl. 117-37.
Cassiers, Paul Maria; Van Engeland, Jozef Leonard; and Noe, Robert Joseph, to Gevaert-Agfa N.V. Electrophotographic recording process. 3,425,829, 2-4-69, Cl. 96-1.
Cassiers, Paul Maria: *See—*
Schmiedel, Ulrich; Meeussen, Louis Achille; Cassiers, Paul Maria; and Hart, Rene Maurice,3,441,947.
Cassil, Jim C. Aquarium conditioner. 3,468,288, 9-23-69, Cl. 119-5.
Cassling, Carl E., 1/4 to Richards, D. Carl. Garment anchor. 3,423,764, 1-28-69, Cl. 2-337.
Cast, Adolf: *See—*
Reich, Kurt; and Cast, Adolf,3,471,008.
Cast Forge Company: *See—*
Lauth, Corliss, 3,472,308.
Castagna, Eugene G., to Chevron Research Company. Poly-alpha-olefin iron-nickel alloy mixtures. 3,477,961, 11-11-69, Cl. 252-62.54
Castagna, John F. Mechanical sound system for phonograph record player. 3,450,410, 6-17-69, Cl. 274-24.
Castarede, Armand M., to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Cylinder heads of internal combustion engines. 3,468,295, 9-23-69, Cl. 123-44.74
Castell, Gail A. Whirling amusement device. 3,484,985, 12-23-69, Cl. 46-51.
Castellani, Edward J.: *See—*
Curtiss, Lawrence M.; Castellani, Edward J.; and Frey, William G.,3,446,910.
Castellani, Eugene E.; Keefe, George E.; and Romankiw, Lubomyr T., to International Business Machines Corporation. Nondestructive-readout memory device. 3,483,534, 12-9-69, Cl. 340-174.
Castellani, Renato. Wing bearing craft. 3,455,264, 7-15-69, Cl. 114-66.5
Castellano, Angelo C. Device for manipulating hair rollers. 3,426,766, 2-11-69, Cl. 132-34.
Castellano, John: *See—*
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G.,3,420,464.
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G.,3,476,475.
Castellano, Joseph A.; and Green, Joseph, to Thiokol Chemical Corporation. 4-Substituted-2,3,5,6-tetrafluoronitrosobenzene. 3,428,672, 2-18-69, Cl. 260-515.
Castellano, Joseph A.: *See—*
Smith, Harry F.; and Castellano, Joseph A.,3,479,404.
Castellano, Thomas A. Chess game apparatus with changeable board. 3,433,482, 3-18-69, Cl. 273-131.
Castelli, Deno. Masonry construction. 3,420,031, 1-7-69, Cl. 52-687.
Castelli, Joseph N., to United States of America, Army, mesne. Limiter, phase-shifter circuit. 3,422,286, 1-14-69, Cl. 307-237.
Castelli, Joseph N., to United States of America, Army, mesne. A.C. bridge gate circuit being controlled by a differential amplifier. 3,471,715, 10-7-69, Cl. 307-257.
Castelli, Joseph N., to United States of America, Army. Attenuation circuit using a tuned amplifier whose Q is varied by shunting resistors. 3,479,609, 11-18-69, Cl. 330-21.
Castelli, Pier Paolo: *See—*
Gardi, Rinaldo; and Castelli, Pier Paolo,3,475,467.
Castelli, Renato: *See—*
Longiave, Carlo; Castelli, Renato; Andreetta, Alberto; and Garberi, Angelo,3,420,899.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto,3,453,302.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto,3,481,961.
Castellion, George Augustus, to American Cyanamid Company. Novel quaternary semiconducting compositions of matter. 3,425,943, 2-4-69, Cl. 252-62.3
Castellion, George Augustus, to American Cyanamid Company. Novel zinc manganese arsenide semiconducting materials. 3,425,945, 2-4-69, Cl. 252-62.51
Castellion, George Augustus, to American Cyanamid Company. Novel ternary semiconducting materials. 3,454;370, 7-8-69, Cl. 23-315.
Castello, Anthony M.: *See—*
Cooper, Robert R.; and Castello, Anthony M.,3,446,202.
Castello-Branco e Neves, Antonio Maria. Safety valve for a hydraulic system. 3,473,851, 10-21-69, Cl. 303-84.
Casten, James W.: *See—*
Sabin, Alfred B.; and Casten, James W.,3,486,457.
Caster, Eldred E. Auxiliary pocket for garments. 3,462,764, 8-26-69, Cl. 2-252.
Caster, Richard W.: *See—*
Oita, Katashi; Pierson, Darrell E.; Ottaway, James N.; and Caster, Richard W.,3,428,024.
Casteran, Jean: *See—*
Delacour, Jacques; and Casteran, Jean,3,420,318.
Castiello, Ignacio Aranguren; Sierra, Octavia Vasquez; and Olnick, Jay E., to Union Starch & Refining Co., Inc., and Indiana and Aranguren y Cie., S.A. Separating device. 3,446,663, 5-27-69, Cl. 127-25.
Castiello, Ignacio Aranguren; Sierra, Octavio Vasquez; and Olnick, Jay E., to Union Starch & Refining Co., Inc., and Indiana and Aranguren y Cie., S.A., Fiber recovery process. 3,446,665, 5-27-69, Cl. 127-67.
Castiglione, Paul V., to General Electric Company. Solid-state D-C to A-C converter. 3,436,643, 4-1-69, Cl. 321-9.
Castille, Ignace. Bushing for casing during rotary drilling operations. 3,473,607, 10-21-69, Cl. 166-75.
Castille, Ignace. Seating and retrieving tool for wear and protective bushings in casing during rotary drilling operations. 3,473,608, 10-21-69, Cl. 166-85.
Castillo, Herman B., to Temprite Products Corporation. Heat exchange system. 3,435,627, 4-1-69, Cl. 62-197.
Castillo, Herman B., to Temprite Products Corporation. Water cooler. 3,468,370, 9-23-69, Cl. 165-66.

Castillo, Tomas R.; and Roberts, Fred M., to Philco-Ford Corporation. Pilot's chair for combat aircraft. 3,420,475, 1-7-69, Cl. 244-122.
Castle & Cooke, Inc.: *See—*
Handwerk, Reginald L.; and Allen, Lyle, 3,425,841.
Heinicke, Ralph M., 3,475,277.
Castle Industries Inc. of California: *See—*
Roche, Francis J., 3,429,014.
Castle, James W. Side loading egg case. 3,441,193, 4-29-69, Cl. 229-33.
Castle, John Frederick: *See—*
Richards, John Harvey; and Castle, John Frederick,3,462,264.
Castle, Raymond G.: *See—*
Cherry, Walter L.; and Castle, Raymond G.,3,465,113.
Castle, Richard D., to Sybron Corporation. Portable sterilizer. 3,443,883, 5-13-69, Cl. 21-93.
Castlen, Robert C. Vehicle warning system. 3,430,195, 2-25-69, Cl. 340-52.
Castoldi, Luigi. Water jet propelling apparatus for boats. 3,465,705, 9-9-69, Cl. 115-12.
Castonguay, Roger A.: *See—*
Bablouzian, Leon M.; Castonguay, Roger A.; and Wenckus, Joseph F.,3,477,644.
Castro, Anthony J.; and Kinney, Layton F., to Armour Industrial Chemical Company. Low toxicity polyurethane composition produced from long chain aliphatic diisocyanates. 3,487,050, 12-30-69, Cl. 260-75.
Castro, Fernando J., to Puerto Rico, The People of. Shield for protecting the hand and holding the stalk during cane cutting and like operations. 3,477,756, 11-11-69, Cl. 294-16.
Castro, Luis F.; Keithahn, Julian D.; Leutwyler, Kurt; and Oden, Jerome H., to Baker Oil Tools, Inc. Flow regulator apparatus. 3,472,275, 10-14-69, Cl. 137-551.
Castro, Peregrino Mario Del Pilar. Process for pasteurizing liquid products in a continuous line of plastic sachets. 3,464,835, 9-2-69, Cl. 99-212.
Castrucci, Paul P.: *See—*
Bilous, Orest; Castrucci, Paul P.; and Clark, Tommy D.,3,421,057.
Castrucci, Paul P., to International Business Machines Corporation. Semiconductor circuits, devices and methods of improving electrical characteristics of latter. 3,446,995, 5-27-69, Cl. 307-304.
Castrucci, Paul P.; Collins, Robert H.; and Shepheard, Robert G., to International Business Machines Corporation. Solderable backside ohmic contact metal system for semiconductor devices and fabrication process therefor. 3,480,841, 11-25-69, Cl. 317-234.
Castrucci, Paul P.; Hess, Martin S.; and Pecoraro, Raymond P., to International Business Machines Corporation. Carrier lifetime killer doping process for semiconductor structures and the product formed thereby. 3,473,976, 10-21-69, Cl. 148-175.
Castrucci, Paul P.; and Im, Samuel S., to International Business Machines Corporation. Method for forming sharply defined apertures in an insulating layer. 3,447,984, 6-3-69, Cl. 156-11.
Castrucci, Paul P.; and Pecoraro, Raymond P., to International Business Machines Corporation. Palladium ohmic contact to silicon semiconductor. 3,431,472, 3-4-69, Cl. 317-234.
Casty, Richard; Berger, Alfred; Mosimann, Walter; and Abel, Heinz, to Ciba Limited. Process and preparation for coloring wool. 3,421,830, 1-14-69, Cl. 8-43.
Caswell, Charles F., to Raytheon Company. Constant writing rate vector generator. 3,482,086, 12-2-69, Cl. 235-186.
Catalano, Frank R. Stairs layout tools. 3,478,434, 11-18-69, Cl. 33-93.
Catalano, Joseph. Space divider or partition. 3,438,421, 4-15-69, Cl. 160-161.
Cataldo, Roy S., to General Motors Corporation. Multichannel multiplex communication system using pulse width modulation and an audio sync on one pulse. 3,440,657, 4-22-69, Cl. 343-225.
Cataldo, Roy S., to General Motors Corporation. Method and apparatus for mechanical-fluid power conversion. 3,470,820, 10-7-69, Cl. 103-1.
Catallo, Frank, to Fab-Con Machinery Development Corporation. Spreader for tubular knit fabrics. 3,479,706, 11-25-69, Cl. 26-55..
Catalox, Corporation: *See—*
Harrington, Herbert A.; Dickey, John W.; Allen, William M.; Butz, Carl C.; and Campbell, Clarence E., 3,485,230.
Catalyst Research Corporation: *See—*
Jones, William, 3,447,970.
Rogers, Maxwell B., 3,424,621.
Stein, Leonard A., 3,445,291.
Catalysts and Chemicals, Inc.: *See—*
Adams, Rodney A., 3,480,565.
Fleming, Harold W., 3,420,618.
Fleming, Harold W., 3,471,583.
Gutmann, William R.; and Wright, James H., 3,441,370.
O'Brien, John F.; and Broughton, Donald R., 3,480,564.
Reitmeier, Ronald E.; Hirschler, Daniel A., Jr.; Lamb, Frances W.; and Stephens, Ruth E., 3,428,573.
Reitmeier Ronald E., 3,445,402.
Cataneo, Ralph J.; and Oakite Products, Inc. Paint coagulator compositions. 3,429,823, 2-25-69, Cl. 252-170.
Catania, Salvatore C.: *See—*
Fuchs, Abraham M.; and Catania, Salvatore C.,3,466,431.
Catelli, Camillo: *See—*
Janovtchik, Viacheslav Jansen; and Catelli, Camillo,3,469,327.
Caterpillar Tractor Company: *See—*
Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A., 3,462,949.
Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A., 3,485,442.
Anderson, Norman L.; Darnall, Millard K.; Morgan, William C.; Peterson, Laurel L.; and Stedman, Robert N., 3,478,902.
Anderson, Rodney H.; Black, William J.; and Miller, Lawrence J., 3,483,640.
Austin, Howard B.; and Wait, John D., Jr., 3,429,471.
Bailey, John M.; and Gates, Marvin A., 3,426,739.
Bailey, John M., 3,431,895.
Bailey, John M.; and Joy, Marion R., 3,444,886.
Bailey, John M.; Glassey, Stephen F.; and Staniak, Waldemar A., 3,451,405.
Bailey, John M.; Krauja, Ziedonis I.; and Tegg, Ralph , Jr., 3,485,225.
Ball, Glenn A.; Lichtenstein, Le Roy; and Webber, Philip S., 3,480,122.
Barbee, Gail G., 3,421,643.
Barbee, Gail G.; and Mortimer, John W., 3,484,009.
Beals, Duane E.; Berchtold, Donald R.; O'Brien, James W.; Rosenberger, Paul C.; Sieving, Alfred W.; and Smith, Kerwyn B., 3,448,816.
Behrends, Bertwin E.; and Schmitt, James L., 3,420,180.
Benner, Paul B.; Beyers, Marvin E.; and Warren, Larry G., 3,423,129.
Bentz, Erwin J. H.; and Rother, Francis J., 3,454,220.
Berta, James J., 3,485,368.
Beyers, Marvin E.; Brown, Mackenzie P.; Carter, John W.; Junck, John A.; Lauterbach, Jerre F.; and Winters, Frank H., 3,463,190.
Beyers, Stephen J.; Draeger, Alfred A.; and Godwin, Ernest, 3,486,744.
Bianchetta, Donald L.; Junck, John A.; and Kokaly, Joseph, 3,444,948.
Bianchetta, Donald L., 3,452,519.
Blum, Robert Morris; and Hollander, Milton Bernard, 3,484,926.
Borer, Herbert W.; Ehlke, Charles C.; and Svoboda, James, 3,432,051.
Breitbarth, William W.; Carter, John W.; and Costa, Philip J., 3,454,101.
Breon, Pearl L.; Imes, Vernon W.; Johnson, Harold R.; Nutter, James M.; and Nutter, James M., 3,478,833.
Breon, Pearl L.; Kress, Ralph H.; Medley, Jackson C.; Eilers, Elvin L.; and Kostas, James M., 3,486,576.
Broeker, Elmer W.; and Pearce, Shairyl I., 3,433,017.
Broeker, Elmer W.; Pearce, Shairyl I.; and Rohweder, Gerald D., 3,463,278.
Brouwers, Alexander P.; McCulla, Walter J.; and Swanson, Morris A., 3,464,233.
Broyden, Robert H., 3,433,968.
Burchill, Richard F.; and Miller, Robert H., 3,472,126.
Callegari, William A.; Matthews, Ralph W.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D., 3,465,851.
Calton, Marion R., 3,438,561.
Calton, Marion R.; and Hautala, Richard E., 3,452,422.
Calton, Marion R.; and Weiss, Carl D., 3,477,116.
Calton, Marion R.; Oberle, Theodore L.; and Weiss, Carl D., 3,477,117.
Campbell, Trevor G., 3,426,928.
Campbell, Trevor G., 3,433,377.
Campbell, Trevor G.; Coogan, Lawrence P.; and Hosoda, Yoshimi, 3,434,738.
Campbell, Trevor G.; Lichti, Robert W.; and Liess, Richard K., 3,452,458.
Campbell, Trevor G., 3,464,574.
Campbell, Trevor G.; Eftefield, Larry G.; and Moser, Raymond L., 3,474,547.
Campbell, Trevor G., 3,484,010.
Campbell, Trevor G., 3,486,254.
Canady, Arthur R., 3,485,143.
Carlson, George A.; Weller, Dale E.; and Williamson, Shellie O., 3,462,972.
Carter, Carl W.; and Johnson, Lloyd E., 3,486,582.
Casey, Robert, 3,452,612.
Chambers, Robert O., 3,440,901.
Cheng, Joseph Chin Jung; and McKinley, William Earl, 3,452,421.
Coats, William C.; and Moyer, Edward J., 3,464,511.
Costa, Philip J., 3,441,887.
Costa, Philip J., 3,445,697.
Crawford, James L., 3,444,410.

Crawford, James L.; and Staebler, Paul J., 3,458,928.
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H., 3,477,225.
Cryder, John R.; and Kroth, Neil W., 3,478,646.
Cryder, John R.; Field, Jesse L., Jr.; Lohbauer, Kenneth R.; and Scheidt, James E., 3,486,418.
De Boeuf, James L.; Eftefield, Larry G.; Moser, Raymond L; and Wagner, Ernest W., 3,471,951.
Deemie, Gerald W.; and Sage, Ira H., 3,439,853.
Deemie, Gerald W.; and Sage, Ira H., 3,451,608.
Dunlap, Samuel G.; and Komsa, Sasha, 3,472,102.
Dunston, Robert D.; Whitehurst, Gerald E.; and Saletzki, Jacob S., 3,429,623.
Durham, Donald F.; and Burk, Duane L., 3,480,338.
Eftefield, Larry G.; Liess, Richard K.; Miller, Lawrence J.; and Wagner, Ernest W., 3,423,853.
Eftefield, Larry G.; and Miller, Lawrence J., 3,483,639.
Engelking, Frederick S., 3,452,995.
Fangman, Charles N., 3,476,020.
Fangman, Charles N., 3,479,929.
Farmer, Charels G.; Loyd, Calvin D.; Miller, Robert G.; and Oberle, Theodore L., 3,462,826.
Fisher, William F., 3,463,243.
Fisher, William F.; Hughes, James L.; and McCarthy, Thomas F., 3,465,829.
Frauenhoff, Richard E., 3,467,219.
Funk, Wilmer E.; Koch, Gerald B.; and Yocum, Ralph W., 3,442,431.
Funk, Wilmer E.; and Martin, Eugene R., 3,450,325.
Fuzzell, Joe E.; Thompson, John C.; and Johnson, John L., Jr., 3,477,607.
Gardner, Charles W.; and Barbee, Gail G., 3,477,601.
Gideonsen, Arthur J.; and Sandrock, Dale D., 3,424,328.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D., 3,444,762.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D., 3,444,968.
Golan, Kenneth F.; Pearce, Shairyl I.; and Horsch, Joachim, 3,452,621.
Goloff, Alexander; Hautala, Richard E.; and White, Claude F., 3,478,411.
Grant, Gerald E., 3,453,025.
Grawey, Charles E., 3,441,644.
Grawey, Charles E.; and Loyd, Calvin D., 3,471,180.
Grawey, Charles E.; Koch, Keith E.; Nelson, David V.; and Untz, Robert W., 3,486,317.
Hasselbacher, Roland E., 3,460,845.
Helton, Eugene L., 3,463,521.
Hollander, Milton Bernard, 3,435,509.
Hollander, Milton Bernard, 3,473,214.
Horsch, Joachim; Johnson, Lowell E.; and Pearce, Shairyl I., 3,424,029.
Horsch, Joachim, 3,450,144.
Horsch, Joachim; and Ohaver, David S., 3,468,194.
Hurst, Paul L.; and Oswald, Joseph, 3,430,507.
Ireland, Gerald B.; and Witzenburg, Marion J., 3,433,985.
Ireland, Gerald B., 3,484,634.
Jessen, Henry J.; Junck, John A.; and Rice, Roger A., 3,449,845.
Johnson, Edward L.; and Miller, Robert G., 3,420,328.
Johnson, Lowell E.; Hansen, Robert C.; Pearce, Shairyl I.; and Lanchantin, Charles E., Jr., 3,478,621.
Junck, John A.; and Rice, Roger A., 3,430,657.
Kennell, Joseph F.; and Smith, Brace C., 3,435,812.
Kizer, Richard W.; and Probert, Kenneth D., 3,424,508.
Kress, Ralph H.; Medley, Jackson C.; and Merritt, Donald E., 3,427,075.
Kress, Ralph H.; and Kostas, James M., 3,477,547.
Kroth, Neil W., 3,448,685.
Larsen, Dorwin R., 3,455,408.
Lohbauer, Kenneth R., 3,423,136.
Lovestrand, Gordon L., 3,483,856.
Loyd, Calvin D.; and Yocum, Ralph W., 3,429,591.
Martin, Eugene R., 3,458,101.
Martin, Eugene R.; and Morton, David I., 3,477,115.
Maurya, Ramamurat R.; and Kauzlarich, James J., 3,420,428.
Maurya, Ramamurat R.; Harrington, Joseph, Jr.; and Squibb, Edward R., III, 3,478,410.
Maxwell, Carl R.; Miller, Robert H.; and Parks, John H., 3,472,215.
McMichael, James W., Jr., 3,477,342.
Medley, Jackson C., 3,439,768.
Miller, Lawrence J., 3,474,548..
Miller, Lawrene J., 3,463,022.
Moore, James D.; and Fangman, Charles N., 3,463,056.
Morris, Hugh C.; Pearce, Shairyl I.; Ramsel, Charles A.; and Rohweder, Gerald D., 3,429,328.
Moyer, Edward J., 3,421,236.
Newman, Harry B.; and Walker, George W., 3,483,852.
Oberle, Theodore L.; and Calton, Marion R., 3,421,201.
Oberle, Theodore L.; Calton, Marion R.; Loyd, Calvin D.; and White, Claude F., 3,435,510.
Oberle, Theodore L.; Calton, Marion R.; and Loyd, Calvin D., 3,452,914.
Oldenburg, Dorrance; Scheidt, James E.; and Shook, Donald L., 3,483,890.
Olmsted, Peter B., 3,434,391.
Olson, George E.; and Mc Culla, Walter J., 3,481,316.
Page, Russell D.; and Easterling, Gene B., 3,444,936.
Page, Russell D.; and Easterling, Gene B., 3,470,967.
Page, Russell D.; Klingaman, Dean C.; Belke, William H.; Crayton, John W.; and Scholl, Rolland D., 3,486,564.
Pearce, Shairyl I.; Thorne, Dale C.; and Starling, James G., 3,481,435.
Peterson, Robert A., 3,471,952.
Peterson, Robert A., 3,477,602.
Philipsen, Richard D.; and Starr, Kenneth E., 3,452,820.
Prillinger, Peter F. M., 3,464,714.
Randour, Victor, 3,437,383.
Randour, Victor, 3,484,125.
Reinsma, Harold L.; Dadds, Floyd S.; and Johnson, Logan J., 3,463,560.
Rhoads, Kenneth A., 3,437,003.
Rhoads, Kenneth A., 3,448,652.
Rice, Roger A., 3,450,418.
Rosenberger, Paul C., 3,443,673.
Ryberg, John G.; and Tjarksen, Donald E., 3,483,700.
Sansom, Jack E.; Finton, Lawrence W.; and Paddock, Byron, Jr., 3,447,547.
Scheidt, James E., 3,472,127.
Schexnayder, Lawrence F., 3,469,861.
Scholl, Rolland D., 3,450,863.
Sidles, Peter, Jr., 3,448,841.
Skromme, Austin G.; and Maytum, James N., 3,427,079.
Smith, Roger M., 3,466,764.
Sons, Charles C., Jr., 3,431,963.
Sons, Charles C., Jr., 3,448,783.
Sons, Charles C., Jr., 3,448,784.
Sons, Charles C., Jr., 3,460,646.
Staebler, Paul J.; Crawford, James L.; Fangman, Charles N.; and McCutchen, Robert R., 3,447,012.
Strabala, Joseph L.; and Grooss, Frank A., 3,425,497.
Sunderlin, Donald Edward; Staab, Jacob Emor; and Oldenburg, Dorrance, 3,435,908.
Tesch, Robert D., 3,426,915.
Updyke, Kenneth W.; and Friede, Allan J., 3,485,228.
Wagner, Harold H., 3,435,813.
Wagner, Harold H., 3,438,361.
Wagner, Harold H., 3,464,202.
Wagner, Robert G., 3,465,458.
Watts, Loyal O., 3,468,210.
Weber, Robert L., 3,464,746.
Weber, Robert L.; and Albright, Thomas M., 3,469,565.
Westervelt, Ralph; and Suttles, John R., 3,483,762.
Yocum, Ralph W., 3,451,121.
Zuhn, Arthur A., 3,420,182.

Cath, Pieter G., to U.S. Philips Corporation, mesne. Angle measuring device employing optical measurement of critical angle reflection between a reference point and a rotating data point. 3,458,704, 7-29-69, Cl. 250-209.

Catherall, Reginald, to Solartron Electronic Group Limited, The. Digital instruments having a control unit with various plug-in subunits. 3,462,587, 8-19-69, Cl. 235-151.31

Cathers, George I.: *See—*
Katz, Sidney; and Cathers, George I.,3,451,790.

Catherwood, Charles G.: *See—*
Lythgoe, Jack R.; and Catherwood, Charles G.,3,460,935.

Catinat, Marcel F.: *See—*
Lemoine, Jean E.; and Catinat, Marcel F.,3,445,886.

Catino, Sigmund C.; and Strobel, Albert F., to GAF Corporation. Process for preparing 2-(4-stilbyl) naphthotriazoles. 3,441,562, 4-29-69, Cl. 260-240.

Catino, Sigmund C.: *See—*
Srobel, Albert F.; and Catino, Sigmund C.,3,462,479.
Strobel, Albert F.; and Catino, Sigmund C.,3,423,407.
Strobel, Albert F.; and Catino, Sigmund C.,3,448,133.
Strobel, Albert F.; and Catino, Sigmund C.,3,462,475.

Catlett, James Arthur. Building material display device. 3,468,593, 9-23-69, Cl. 312-234.

Catlett, John C., to Roto-Swing Door Co., Inc. Automatic door operator. 3,422,704, 1-21-69, Cl. 74-801.

Catlett, John C.; and Gilson, James R., to Gyro-Tech Door Company. Automatic balanced door with transom mounted operator. 3,425,161, 2-4-69, Cl. 49-253.

Catlett, John C.; and Gilson, James R., to Gyro-Tech Door Company. Automatic balanced door operator. 3,457,674, 7-29-69, Cl. 49-340.

Catozzo, Leo. Film splicing device. 3,428,511, 2-18-69, Cl. 156-505.

Catravas, George N., to Technicon Corporation. Chromatography apparatus. 3,474,908, 10-28-69, Cl. 210-198.

Catroppa, Frank A.; and Hirsch, Sidney, to United States of America, Navy. Protective and sound attenuation helmet. 3,423,759, 1-28-69, Cl. 2-6.
Catsch, Alexander, to Geigy Chemical Corporation. Decontamination agents. 3,480,715, 11-25-69, Cl. 424-289.
Catt, Lewis R.; and McCullough, James T., deceased0 (by McCullough, Dolly T.; administratrix), to C&M Industrial Associates, Inc., mesne. Trolley conveying method and apparatus. 3,473,485, 10-21-69, Cl. 104-172.
Cattabiani, Eugene J., to Westinghouse Electric Corporation. Motor-pump unit. 3,426,690, 2-11-69, Cl. 103-87.
Cattell, Robert L.: *See—*
Friend, Harley L.; and Cattell, Robert L.,3,457,494.
Cattermole, Kenneth William; Barber, Donald Robert; and Lambourn, Edward Harry, to International Standard Electric Corporation. Composite non-linear networks. 3,445,681, 5-20-69, Cl. 307-229.
Catterson, Robert K., to Champion Pneumatic Machinery Company, Inc. Compressor. 3,458,114, 7-29-69, Cl. 230-58.
Catto, Vincent P.: *See—*
Henselman, Richard O.; Catto, Vincent P.; Williges, George R.; and Hollyday, William C., Jr.,3,458,430.
Caty, M., & Cie., Societe Anonyme: *See—*
Caty, Marcel, 3,457,825.
Caty, Marcel, to Caty, M., & Cie., Societe Anonyme. Elastic washer. 3,457,825, 7-29-69, Cl. 85-50.
Catylators Limited: *See—*
Wallinder, John Arne, 3,462,356.
Caubet, Jacques Jean. Method for treating steel by electrolysis in a molten thiocyanate. 3,467,585, 9-16-69, Cl. 204-39.
Caubet, Jacques Jean. Method of electrolytically sulfiding ferrous parts in a thiocyanate bath. 3,475,291, 10-28-69, Cl. 204-39.
Cauchois, Jean, to CSF-Compagnie Generale de Telegraphie sans fil. Receiver systems with constant false alarm rate. 3,423,682, 1-21-69, Cl. 325-324.
Caudel, Fred H.: *See—*
Trent, James A.; Kubitschek, Hans E.; Hook, Harvey E.; and Caudel, Fred H.,3,453,988.
Caudell, Leroy, deceased (by Caudell, Leona, administratrix); and Peck, Lawrence G., to Storage Sysems, Inc., mesne. Storage rack rail member. 3,420,348, 1-7-69, Cl. 193-35.
Caudill, Allison H.; and Goff, Willie, Jr., to International Business Machines Corporation. Small increment ribbon feed. 3,432,020, 3-11-69, Cl. 197-151.
Caudle, John B. Looseleaf binder mechanism. 3,453,060, 7-1-69, Cl. 402-45.
Cauffman, Eugene W., to Supreme Augers, Inc. Material distributing device. 3,437,192, 4-8-69, Cl. 198-188.
Caughron, Sam M.: *See—*
Hamby, Robert L., 3,480,350.
Caule, Elmer J.; Pryor, Michael J.; and Sperry, Philip R., to Olin Mathieson Chemical Corporation. Copper base alloys and process for preparing same. 3,475,227, 10-28-69, Cl. 148-6.31
Caulfield, Henry J.: *See—*
Beyen, Werner J.; and Caulfield, Henry J.,3,433,139.
Caulfield, Henry John, to Texas Instruments, Incorporated. Laser images formed by matric control. 3,427,456, 2-11-69, Cl. 250-199.
Caulfield, Henry John, to Texas Instruments, Incorporated. Modulated laser using a solid Fabry-Perot etalon having a birefringent center core. 3,471,802, 10-7-69, Cl. 331-94.5
Caulford, Donald Alexander; and Phin, James R., to Canadian Stackpole Ltd. Automatic labelling apparatus. 3,450,586, 6-17-69, Cl. 156-364.
Caulier, Paul W.; and McDowell, Earle B., to General Electric Company. Trigger circuit for inductive load. 3,436,608, 4-1-69, Cl. 317-148.5
Caulkins, Bruce D.: *See—*
Stoner, Richard G.; and Caulkins, Bruce D.,3,424,222.
Causby, Arthur Bennett; and Minton, Clarence W., to Stevens Hosiery, Division of Stevens, J. P., & Co. Thread break detector. 3,442,237, 5-6-69, Cl. 112-218.
Cauthen, John V.: *See—*
Abe, Fujio; Cauthen, John V.; and McCoy, Daniel W.,3,456,310.
Cauthen, John V.; Hinson, Claudell; Ledford, Garland M.; and Abe, Fujio, to Burlington Industries, Inc. Means for determining stops of a loom or the like. 3,459,235, 8-5-69, Cl. 139-1.
Cauthron, Grover L. Rocking assembly. 3,426,369, 2-11-69, Cl. 5-109.
Cauthron, Grover L. Rocking assembly. 3,428,972, 2-25-69, Cl. 5-109.
Cauvin, Andre. Mounting device for the engine block of a vehicle. 3,430,901, 3-4-69, Cl. 248-8.
Cauvin, Andre, to Societe Anonyme des Automobiles Simca. Process for the metallization of annular pieces. 3,451,839, 6-24-69, Cl. 117-43.
Cauwe, Andre Paul; and Van Bouwel, Leo Paul, to Gevaert-Afga N.V. Photographic material processing apparatus. 3,435,749, 4-1-69, Cl. 95-94.
Cauwenberg, Winfred Joseph: *See—*
Roberts, George Leathwhite; Hoelscher, Harold Ewald; and Cauwenberg, Winfred Joseph,3,424,561.
C.A.V. Limited: *See—*
Adey, Anthony John; and Glikin, Paul Edgar, 3,465,679.
Barber, Stanley Frederick, 3,451,627.
Barber, Stanley Frederick, 3,468,008.
Clarke, Graham Albert Flemming, 3,465,677.
Drori, Moshe, 3,426,689.
Drori, Moshe, 3,439,621.
Drori, Moshe, 3,447,520.
Glikin, Paul Edgar; and Fenne, Ivor, 3,439,624.
Glikin, Paul Edgar; and Hutcheon, Keith Finer, 3,446,148.
Hutcheon, Keith Finer; and Thornber, John Charles Powell, 3,421,444.
Kellett, Eric, 3,475,907.
Kemp, Kenneth Albert Walters, 3,427,979.
Kemp, Kenneth Albert Walters, 3,433,159.
Kemp, Kenneth Albert Walters, 3,433,160.
Kemp, Kenneth Albert Walters, 3,460,479.
Kemp, Kenneth Albert Walters; and Wheeler, Terence Redvers, 3,476,050.
Kemp, Kenneth Albert Walters, 3,476,134.
Kemp, Kenneth Albert Walters; and Wheeler, Terence Redvers, 3,485,175.
Knight, Basil Edward, 3,439,476.
Knight, Basil Edward; and Shufflebotham, David, 3,456,884.
Long, Stanley Thomas, 3,475,955.
Mowle, Michael George, 3,465,678.
Nicolls, Wilfred Edward Walter, 3,482,519.
Priede, Teodore; and Wilkins, Jan, 3,465,969.
Seilly, Alec Harry, 3,469,106.
Thornber, John Charles Powell, 3,465,733.
Thornber, John Charles Powell, 3,481,315.
Cava Industries: *See—*
Simson, Anton K., 3,467,124.
Cavagna, Giancarlo; and Walker, William C., to Westvaco Corporation. Coated paper having electroconductive properties and process of making the same. 3,479,215, 11-18-69, Cl. 117-201.
Cavagnaro, William A., to General Electric Company. Longitudinal positioning of a phonograph stylus assembly. 3,438,637, 4-15-69, Cl. 274-37.
Cavagnero, Erman V.; Sheffield, Wilbur L.; and Morro, Joseph L., to Torrington Manufacturing Company, The. Spring winding machine. 3,433,041, 3-18-69, Cl. 72-138.
Cavalier, Gilbert, to Institut de Recherches de la Siderurgie Francaise. Coupling member for ultrasonic scanning device. 3,433,059, 3-18-69, Cl. 73-71.5
Cavalieri, Emilio. Hydropneumatic drive and hydraulic pressure control device for the journals of rolls' necks in chocolate milling and refining machines. 3,423,938, 1-28-69, Cl. 60-54.5
Cavalla, John Frederick, to Parke, Davis, & Company. 1-Phenethyl or p-aminophenethyl-3-(m-hydroxy- or alkanoyloxy-phenyl)-3-propylpyrrolidines and salts thereof. 3,462,452, 8-19-69, Cl. 260-326.5
Cavalli, Arnold; and Magid, Louis, to Hoffmann-La Roche Inc. Encapsulated acacia syrup adhesive overlayed N- acetyl-p-aminophenol beadlet cores retaining thereon destromethorphan, chlorpheniramine, and phenylephrine. 3,446,891, 5-27-69, Cl. 424-34.
Cavalli, Arnold; and Magid, Louis, to Hoffmann-La Roche Inc. Vitamin compositions produced by direct compression. 3,446,899, 5-27-69, Cl. 424-280.
Cavalli, Pompeo. Bed-sofa. 3,432,203, 3-11-69, Cl. 297-109.
Cavanagh, Patrick Edgar, to Steep Rock Iron Mines Limited, mesne. Low temperature blast furnace and method therefor. 3,427,013, 2-11-69, Cl. 266-29.
Cavanagh, Patrick Edgar, to Premium Iron Ores Limited. Method of raising fish. 3,446,185, 5-27-69, Cl. 119-3.
Cavanagh, William G.: *See—*
Wellington, Frederick C.; and Cavanagh, William G.,3,453,001.
Cavaterra, Enrico: *See—*
Fattore, Vittorio; Petrini, Guido; and Cavaterra, Enrico,3,474,042.
Giordano, Nicola; Cavaterra, Enrico; and Fattore, Vittorio,3,471,545.
Cavaterra, Enrico; and Ferlazzo, Natale, to Montecatini Edison S.p.A. Catalytic ammoxidation of olefins to nitriles. 3,446,834, 5-27-69, Cl. 260-465.3
Cavaterra, Enrico; and Ferlazzo, Natale, to Montecatini Edison S.p.A. Catalytic oxidation of olefins to aldehydes. 3,476,810, 11-4-69, Cl. 260-604.
Cavaterra, Enrico; Ferlazzo, Natale; and Petrini, Guido, to Montecatini Edison S.p.A. Catalytic ammoxidation of olefins to nitriles. 3,446,833, 5-27-69, Cl. 260-465.3
Cave, Eric F.: *See—*
Czorny, Bohdan R.; and Cave, Eric F.,3,443,175.
Caveney, Jack E., to Panduit Corporation. Wiring assembly and duct cover therefor. 3,485,937, 12-23-69, Cl. 174-101.

Caveny, Leonard H., to Thiokol Chemical Corporation. Thrust vector control for solid propellant rocket motors by means of injection. 3,434,287, 3-25-69, Cl. 60-224.
Caveny, Leonard H., to Thiokol Chemical Corporation. Thermal protection system for missile components subjected to excessive periods of aerodynamic heating. 3,440,820, 4-29-69, Cl. 60-253.
Caves, Robert B.: *See—*
Rodgers, James Linn; and Caves, Robert B.,3,430,867.
Cavin, Robert Victor: *See—*
Henquet, Andre Jean; Cavin, Robert Victor; and Feuillepain, Marcel,3,466,606.
Caviness, Alton L., to Monsanto Company. Reactor for mixing viscous liquids. 3,484,204, 12-16-69, Cl. 23-252.
Cavitron Corporation: *See—*
Balamuth, Lewis; and Robertson, Clifford A., 3,438,428.
Balamuth, Lewis, 3,438,824.
Balamuth, Lewis; and Robertson, Clifford A., 3,445,307.
Balamuth, Lewis, 3,471,724.
Balamuth, Lewis; and Parisi, Tulio, 3,483,611.
Burns, Henry L., 3,472,225.
Cavitt, Stanley B., to Jefferson Chemical Company, Inc. Process for preparing aminoplasts from alkoxyacetaldehyde with an azine. 3,420,799, 1-7-69, Cl. 260-67.6
Cavitt, Stanley B., to Jefferson Chemical Company, Inc. Method for the preparation of dioxenes and dioxadienes. 3,433,806, 3-18-69, Cl. 260-340.6
Cavitt, Stanley B., to Jefferson Chemical Company, Inc. Preparation of methoxyacetaldehyde dialkylacetals. 3,436,427, 4-1-69, Cl. 260-615.
Cavitt, Stanley B.; and Speranza, George P., to Jefferson Chemical Company, Inc. Method for the preparation of 2-amino-1-alkanols. 3,448,153, 6-3-69, Cl. 260-584.
Cavitt, Thomas S., to Blaw-Knox Company. Method of evacuating entrapped gases in liquid cooled furnace rolls and apparatus therefor. 3,455,541, 7-15-69, Cl. 263-6.
C. A. V. Limited: *See—*
Kemp, Kenneth Albert Walters, 3,437,042.
Cavoli, Joseph W., to Artistic Packaging, Inc. Bow frame. 3,428,227, 2-18-69, Cl. 223-46.
Cawi, Vernon A.: *See—*
Venable, Charles R., Jr.; Wood, Zollie E.; and Cawi, Vernon A.,3,484,212.
Cawley, John D.; and Hawks, Orris D., to Eastman Kodak Company. Retarding evaporation of water. 3,459,492, 8-5-69, Cl. 21-60.5
Cawley, John D.; and O'Grady, Mary Patricia, to Eastman Kodak Company. Preparation of monoglyceride phosphoric acid and salts thereof. 3,423,440, 1-21-69, Cl. 260-403.
Cawley, John H.; and Schiff, Daniel, to United States of America, Navy, mesne. System for measuring sound velocity in water as a function of depth. 3,441,901, 4-29-69, Cl. 340-5.
Cawley, Richard E., to Lennox Industries, Inc. Discharge gas manifold construction for hermetic refrigerant compressor. 3,448,918, 6-10-69, Cl. 230-232.
Cawley, Richard E., to Lennox Industries Inc. Pressurizing arrangement for a compressor. 3,465,949, 9-9-69, Cl. 230-58.
Cawley, Terence J.: *See—*
Brown, Wayne R.; Cawley, Terence J.; and Van Tilburg, Robert W.,3,429,324.
Cawley, Terence J., to Corning Glass Works. Feedback isolator. 3,428,065, 2-18-69, Cl. 137-81.5
Cawsar, Philip D.: *See—*
Caesar, George V., 3,422,087.
Cawthon, Thomas M.: *See—*
Bostian, Logan C.; Cawthon, Thomas M.; and Oxenrider, Bryce C.,3,466,260.
Cawthon, Thomas M.; Schmitt, George J.; Higbee, Allen F.; Pedersen, Jack R.; and Oswald, Hendrikus J., to Allied Chemical Corporation. Polyimine/polycarbonamide graft polymers. 3,442,975, 5-6-69, Cl. 260-857.
Cawthon, William C.; and Ulrich, Robert J., to American Standard, Inc. Method for producing an enamelware article having a patterned surface. 3,453,133, 7-1-69, Cl. 117-10.
Cayouette, Robert L.: *See—*
Hastings, Charles E.; and Cayouette, Robert L.,3,426,350.
Cayzer, John Anthony, to Texas Instruments, Incorporated. Circuit board structure with interconnecting means. 3,437,882, 4-8-69, Cl. 317-101.
Cazajous, Claude: *See—*
Pfugfelder, Bernard; Benne, Georges; and Cazajous, Claude,3,437,666.
Cazet, Bernard, to B.I.P. Brevets Inventions Promotion S.A. Shell-mounted broom or similar brush-wear article. 3,434,176, 3-25-69, Cl. 15-177.
Cazzaniga, Tino: *See—*
Del Piano, Francis F.; and Cazzaniga, Tino,3,443,493.
C.C.C. Safety Bath, Inc.: *See—*
Chency, Otis T., 3,435,466.
CCI Marguardt Corporation: *See—*
Moser, William Henry, 3,482,717.
CCT Cinema Camera Technik AG: *See—*
Jacobsen, Jan Louis Wulff, 3,425,775.
Jacobsen, Jan Louis Wulff, 3,433,561.
C. D. M. Company Ltd.: *See—*
Inoue, Mitsuo; and Matsuzaka, Tanechiyo, 3,472,168.
C.D.T. Design Consultants Limited: *See—*
Townsend, David James, 3,424,472.
Cea, Carmen Achille, to AMP Incorporated. Terminal with nail lance and support member therefor. 3,423,718, 1-21-69, Cl. 339-100.
Cease, Vincent J., to Continental Oil Company. Oil-soluble sulfonic acids and process for manufacture thereof. 3,476,800, 11-4-69, Cl. 260-505.
Ceausescu, Elena; and Fieroiu, Victoria, to Ministerul Industriei Chimice. Continuous process and plant for polymer separation from polymer solutions. 3,434,523, 3-25-69, Cl. 159-47.
Cebal GP: *See—*
Podesta', Armando; and Vignati, Carlo, 3,446,381.
Cecchetti, Ralph: *See—*
Cahn, Robert P.; Long, Robert B.; Cecchetti, Ralph; Carr, Jesse M., Jr.; and De Feo, Richard J.,3,481,971.
Ceccucci, Domenico. Device for improving the traction, stability and flotation of vehicles with tired wheels. 3,482,880, 12-9-69, Cl. 301-47.
Cecere, Mirella: *See—*
Minisci, Francesco; Belvedere, Giuseppe; Cecere, Mirella; and Quilico, Adolfo,3,444,194.
Cecil, Harry H.: *See—*
Beach, John M.; Cecil, Harry H.; White, Arthur R.; and Ziegler, George S.,3,423,104.
Cecil, Olin B., to Texas Instruments, Incorporated. Aluminum oxide himidity sensor. 3,440,372, 4-22-69, Cl. 200-61.04
Cecil, Olin B., to Texas Instruments, Incorporated. Electron beam techniques in integrated circuits. 3,453,723, 7-8-69, Cl. 29-580.
Cecil, Olin B., to Texas Instruments, Incorporated. Slurry for polishing silicon slices. 3,485,608, 12-23-69, Cl. 51-308.
Cecil, Owen S., Jr.: *See—*
Senn, Charles M.; and Cecil, Owen S., Jr.,3,430,786.
Senn, Charles M.; and Cecil, Owen S., Jr.,3,465,118.
Senn, Charles M.; and Cecil, Owen S., Jr.,3,469,064.
Cecil, Tom A.; Gerstenmier, Harold J.; Hamill, Herbert R.; and Puskar, Victor, to Engelhard Minerals & Chemicals Corporation. Method for the simultaneous concentration of constituents of solid mixtures in liquid suspension. 3,477,565, 11-11-69, Cl. 209-5.
Cedars of Lebanon-Mt. Sinai Hospitals of the Los Angeles Jewish Medical Center: *See—*
Jaffe, Henry L.; and Adams, Ralph M., 3,483,565.
Ceder, Joseph, to International Aluminum Ltd. Spindle mounting for storm doors. 3,453,792, 7-8-69, Cl. 52-455.
Cederbaum, Laurence R.: *See—*
Hastings, Dana B.; and Cederbaum, Laurence R.,3,467,469.
Cederberg, Kermit G. Game board with leveling means and spinning top. 3,429,573, 2-25-69, Cl. 273-108.
Cederberg, Sten; and Nygren, Harry M., to AB Industrifjadrar. Safety seatbelt for vehicles. 3,486,793, 12-30-69, Cl. 297-389.
Cederwall, Leonard O.: *See—*
Reagan, Bruce V., Jr.; Notchev, John S.; and Cederwall, Leonard O.,3,430,302.
Cedrone, Nicholas J. Magnetically bistabilized mechanical memory device. 3,445,825, 5-20-69, Cl. 340-173.
Ceepo Manufacturing Company: *See—*
Hanson, Eugene E., 3,426,863.
Cefarelli, Frank P.; and Evans, Robert T., to International Business Machines Corporation. Coaxial cable connector. 3,474,385, 10-21-69, Cl. 339-47.
Ceintrey, Marcel, to Societe Chimique, Routiere et d'Entreprise Generale. Heat-insulated conduit of utility in the transport of fuels over long distances. 3,420,277, 1-7-69, Cl. 138-143.
Cekada, Joseph, Jr.; and Weyenberg, Donald R., to Dow Corning Corporation. Colloidal silsesquioxanes and methods for making same. 3,433,780, 3-18-69, Cl. 260-29.2
Cekada, Joseph, Jr.; and Weyenberg, Donald R., to Dow Corning Corporation. Method for making organic latexes. 3,445,415, 5-20-69, Cl. 260-29.6
Celada, Juan; Villarreal, David; and MacKay, Patrick W., to Fierro Esponja, S.A. Method for producing sponge iron. 3,423,201, 1-21-69, Cl. 75-35.
Celada, Juan; Villarreal, David; Reyna, Armando; and Mackay, Patrick W., to Fierro Esponja, S.A. Ore treating apparatus. 3,467,368, 9-16-69, Cl. 266-20.
Celanese Coatings Company: *See—*
Dunham, Leroy A.; and Belanger, William J., 3,445,411.
Hicks, Darrell D., 3,424,817.
Hicks, Darrell D., 3,467,730.
Johnson, Arthur L., 3,438,800.
Masters, John E., 3,424,719.
Masters, John Edward, 3,424,766.
Mork, Alfred N., 3,451,837.
Mork, Alfred N., 3,479,197.
Opipari, Anthony William, 3,446,769.

Shimp, David A.; McWhorter, Wayne F.; and Wolfe, Norman G., 3,432,440.
Shimp, David Alan; and Bobo, William Sheppard, Jr., 3,481,257.
Slater, William W.; and Thow, Lawrence E., 3,468,779.
Celanese Corporation: *See*—
Aguilo, Adolfo; Fisher, Gene J.; and Wheeler, Edward N., 3,465,032.
Allman, William T., Jr.; Winger, James H.; and Burn, William A., Jr., 3,452,412.
Anderson, Harold F., 3,422,513.
Auville, Calvin; and Gross, Johann, 3,434,306.
Auville, Calvin; and Gross, Johann, 3,442,099.
Belohlav, Leo R.; and Costanza, John R., 3,444,136.
Belohlav, Leo R.; and Costanza, John R., 3,479,321.
Berardinelli, Frank M.; and Bates, David L., 3,455,867.
Bierenbaum, Harvey S.; Isaacson, Robert B.; and Lantos, Peter R., 3,426,754.
Billheimer, John E., 3,428,724.
Blake, Lawrence R., 3,428,468.
Bohrer, Thomas C., 3,482,011.
Brooks, Malcolm R. H., 3,429,354.
Busby, Joseph B., 3,427,686.
Carlson, Frank A., Jr.; and Zavitz, Walter E., 3,466,356.
Carpenter, Sammy; Witt, Enrique R.; and Cahill, Joseph J., Jr., 3,474,148.
Chenevey, Edward C.; and Conciatori, Anthony B., 3,433,772.
Conciatori, Anthony B.; and Smart, Charles L., 3,484,416.
Costanza, John R.; and Dunay, Michael, 3,480,016.
Cox, Robert P.; and Buetow, Ralph W., 3,445,311.
Denyes, Russell Owens; and Santangelo, Joseph Germano, 3,470,583.
Di Pietro, Joseph, 3,481,909.
Dirks, Jerald Edson; and Fisher, Gene Jordan, 3,432,543.
Eldridge, Clare W.; Long, Charles W.; and Gamble, Robert O., 3,457,715.
Eldridge, Clare Wallace; Jones, James Dorroh; and Trunk, Junior George, 3,449,900.
Epstein, Martin E.; and Jamison, Saunders E., 3,461,882.
Farrow, John G., 3,473,194.
Fisher, Gene Jordan; and Dirks, Jerald Edson, 3,458,406.
Fouts, Hollye Ray, 3,485,588.
Fuhr, Herbert William, 3,484,332.
George, Thomas W.; and Rulison, Richard N., 3,423,925.
Gibson, Baylor D.; and Berne, Hans Jorg Otto, 3,475,896.
Gray, Jack; and Watson, George A., 3,439,394.
Grey, Donald D., 3,471,901.
Halek, George W.; and Berardinelli, Frank M., 3,436,299.
Halek, George Walter, 3,484,400.
Hamilton, Robert L.; and Quynn, Richard G., 3,433,861.
Hancock, James L., 3,430,773.
Hanna, Frank H., 3,421,191.
Hellman, David H.; and Warner, Joseph S., 3,449,058.
Hobbs, Charles C., Jr.; and MacLean, Alexander F., 3,470,219.
Huguet, Juan Luis, 3,479,395.
Jamison, Saunders E., 3,422,176.
Jamison, Saunders Eliot, 3,474,163.
Kakos, Michael J., Jr., 3,484,399.
Kennedy, Daniel M., Jr., 3,485,910.
Kirkland, Earl Vance, 3,461,879.
Kong, Arthur, 3,455,746.
Kong, Arthur, 3,481,756.
Levine, Eli; and Costanza, John R., 3,423,352.
Levine, Eli; and Costanza, John R., 3,423,353.
Levine, Eli, 3,455,887.
Levine, Eli; and Reuther, Philip C., 3,459,699.
Levine, Eli; and Reuther, Philip C., 3,485,811.
Livingston, Malcolm R.; and Frate, Roland, 3,422,510.
Livingston, Malcolm R., 3,435,855.
Lloyd, Neil E., 3,439,485.
Mac Lean, Alexander F.; and Stautzenberger, Adin L., 3,459,644.
Mac Lean, Alexander F., 3,479,403.
MacLean, Alexander F.; and Stautzenberger, Adin L., 3,462,504.
MacLean, Alexander F.; and Stautzenberger, Adin L., 3,479,262.
Martin, Alfred W.; Walker, James W.; McNair, William T., Jr.; and Hood, Coy H., 3,432,560.
Mc Canless, Stuart D.; and Plowden, Irvin V., 3,442,204.
McAndrew, Francis B., 3,435,005.
McAndrew, Francis B., 3,445,433.
Misenheimer, James R.; and Keith, Charles H., 3,426,765.
Neff, Eugene E., 3,456,434.
O'Brien, Merrill N., Jr.; and Berardinelli, Frank M., 3,442,850.
O'Brien, Merrill N., Jr.; and Berardinelli, Frank M., 3,444,265.
O'Connor, Patrick J.; and Maglaughlin, Edward P., 3,449,436.
Orgen, Donald E.; Prince, Arthur E., Jr.; and Rozett, Robert, 3,481,984.
Porter, Stephen L.; Auville, Calvin; and Winch, Allen R., 3,430,465.
Price, Billy Ray; St. Pierre, Richard Ernest; and Lloyd, Neil E., 3,477,445.
Pritchard, Ruth, 3,476,832.
Quynn, Richard G., 3,475,771.
Robeson, Max O., 3,459,677.
Santangelo, Joseph G., 3,441,640.
Schnizer, Arthur W.; and Wheeler, Edward N., 3,462,484.
Seddon, Robert M.; and Scarbrough, Lyle Dana, 3,442,866.
Sherer, David L., 3,429,117.
Slovinsky, Manuel, 3,442,863.
Smart, Charles L., 3,454,349.
Smith, Eldred T.; and Heinz, Walter E., 3,428,605.
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley, 3,444,863.
Stackman, Robert W.; and Evers, William L., 3,423,333.
Stuetz, Dagobert E., 3,449,077.
Sturkey, William C., 3,477,806.
Szilagyi, Gabor J., 3,440,001.
Taylor, Wallace Edmondson; and Witt, Enrique Roberto, 3,462,468.
Timmons, William D., Jr.; and Worsham, Walter C., 3,481,136.
Trapasso, Louis E., 3,475,364.
Vona, Joseph A.; and Hensch, Edward J., 3,452,054.
Wagner, Herman L.; and Hardy, George F., 3,450,665.
Ward, George C., 3,449,057.
Watson, George A., 3,423,795.
Watson, George A.; Williams, James A.; and Godwin, Joseph R., 3,466,861.
Watson, George A., 3,470,008.
Weathers, Thomas G., Jr., 3,439,385.
Weber, Harold, 3,450,322.
Wile, Ronald H., 3,432,557.
Wile, Ronald H., 3,468,957.
Williams, Albert G., 3,479,314.
Witt, Enrique R., 3,435,099.
Witt, Enrique Roberto; Carpenter, Sammy; and Zee-Cheng, Kwang Yuen, 3,450,726.
Celebonovic, Stevan: *See*—
Karamata, Jean; and Celebonovic, Stevan,3,464,644.
Celesia, Jerry J., to San Roy Development Co., Inc. Autocourse raceway system. 3,422,770, 1-21-69, Cl. 104-149.
Celeste, Jack Richard, to Du Pont de Nemours, E. I., and Company. Photopolymerizable polymers containing free acid or acid anhydride groups reacted with glycidyl acrylate or glycidyl methacrylate. 3,448,089, 6-3-69, Cl. 260-78.5
Celeste, Jack Richard. Process for making photoresists. 3,469,982, 9-30-69, Cl. 96-35.1
Celio, Tino; and Guillaume, Francois, to Gretag Aktiengesellschaft. Optical arrangement for lighting and focussing. 3,454,343, 7-8-69, Cl. 356-210.
Celio, Tino; and Hogg, Heinrich, to Gretag Aktiengesellschaft. Densitometer incorporating selectively and individually controlled color filters. 3,467,475, 9-16-69, Cl. 356-179.
Cellitti, Raymond A.; Plofsky, Erwin; and Solecki, Edward A., to International Harvester Company. Methods of and systems for effecting the nondestructive analysis of materials. 3,481,186, 12-2-69, Cl. 73-67.9
Cellophane Investment Co., Ltd.: *See*—
Bailleau, Gilbert, 3,429,256.
Hullot, Pierre, 3,483,022.
Cellu-Craft Inc.: *See*—
Reed, Stanley I., 3,485,697.
Cellu-Craft Products Corporation: *See*—
Lindley, Donald C., 3,455,760.
Celorio, Fausto. Automatic dough feeding machine. 3,442,228, 5-6-69, Cl. 107-14.
Celorio Mendoza, Fausto. Outside and inside cooking oven. 3,484,087, 12-16-69, Cl. 263-8.
Celotex Corporation, The: *See*—
Barshefsky, Gustave; and Goldstein, Eugene E., 3,478,137.
Funk, Smith A.; Klasen, Charles J.; and Malone, James J., Jr., 3,483,664.
Sadler, Noah W., III, 3,484,267.
Celovsky, Michael J., to Industrial Tool Engineering Company. Electrical discharge machining apparatus dies and roll manufacture. 3,435,174, 3-25-69, Cl. 219-69.
Celus Fasteners, Inc.: *See*—
Lahnston, Frank C., 3,426,572.
Cely, James V.; and Ritchie, Robert T., to International Business Machines Corporation. Xerographic fusing apparatus. 3,481,589, 12-2-69, Cl. 263-6.
Cement Marketing Company Limited: *See*—
Nutt, William Owen, 3,437,619.
Cementation Company (Africa) Limited, The: *See*—
Parry-Davies, Ross, 3,424,248.
Cementfabrik Holderbank-Wildegg AG.: *See*—
Bruni, Hansrudolf; and Nyffenegger, Heinz, 3,433,056.
Schmid, Alfred; and Nyffenegger, Heinz, 3,420,094.
Schmid, Alfred; Nyffenegger, Heinz; and Bruni, Hansrudolf, 3,482,787.

Cenci, Harry J.; and Hurwitz, Marvin J., to Rohm & Haas Company. Vinyl chloride resin processing aid imparting improved heat distortion characteristics. 3,485,775, 12-23-69, Cl. 260-899.
Cencioni, Livio. Hinge for furniture doors generally, with the possibility of 180° rotation. 3,470,579, 10-7-69, Cl. 16-166.
Cenco Instruments Corporation: *See*—
Carter, Neil A., 3,460,580.
Cenerazzo, John A.: *See*—
Gustison, Robert A.; Gorczyca, Frank; and Cenerazzo, John A.,3,447,894.
Cenfetelli, Anthony R., to International Business Machines Corporation. Data handling apparatus with recurrent address manipulation to access a plurality of storage areas. 3,426,332, 2-4-69, Cl. 340-172.5
Centanni, James D., to Xerox Corporation. Shift/count control circuit. 3,471,639, 10-7-69, Cl. 178-6.
Centanni, James D., to Xerox Corporation. Format generator circuit. 3,474,442, 10-21-69, Cl. 340-347.
Centanni, James D.; and Fleig, William E., to Xerox Corporation. Statistical encoding. 3,484,750, 12-16-69, Cl. 340-172.5
Centeck, Irene W. Decorative collar. 3,428,963, 2-25-69, Cl. 2-133.
Center, Donald R., to Saraband Properties, Inc., mesne. Tire stud gun. 3,475,806, 11-4-69, Cl. 29-212.
Center, Dwight W., to Studebaker Corporation, mesne. Stud feeder mechanism. 3,474,890, 10-28-69, Cl. 198-33.
Centerchem Inc.: *See*—
Cleary, Thomas F., 3,456,020.
Centex Poultry Company: *See*—
Cuculic, Gail E.; Tatom, Lynn D.; and Murphree, Elwyn L., 3,450,100.
Central Brass & Aluminum Foundry: *See*—
Goehler, Elmer E., 3,433,018.
Central Electricity Generating Board: *See*—
Earley, Bert, 3,440,533.
Mottram, Anthony William Thomas, 3,484,859.
Central Engineering Company, Inc.: *See*—
Daneman, Ben, 3,431,583.
Daneman, Ben, 3,444,581.
Daneman, Ben, 3,474,484.
Central Glass Co., Ltd.: *See*—
Hayakawa, Masashi; Kadotani, Makoto; and Ishikawa, Kunio, 3,427,125.
Yasutake, Yoshito; and Fujita, Yosisige, 3,458,279.
Yasutake, Yoshito; and Fujita, Yosisige, 3,480,387.
Central Inspection Service, Inc.: *See*—
Lowery, Huey P., 3,454,704.
Central Investment Corporation of Denver: *See*—
Stroh, Donald G., 3,423,585.
Central Oil Company: *See*—
Fulton, Walter B.; and Wickenhauser, Leonard J., 3,442,331.
Central Quality Industries, Inc.: *See*—
Eicholz, Arthur H., 3,432,939.
Central Research Institute of Electirc Power Industry: *See*—
Oda, Kenichi; and Ishihara, Yoshimi, 3,481,289.
Central Research Laboratories, Inc.: *See*—
Chesley, Frank G., 3,426,920.
Eisert, Gerald A.; and Haaker, Lester W., 3,433,370.
Haaker, Lester W., 3,425,569.
Jelatis, Demetrius G.; Haaker, Lester W.; and Eisert, Gerald A., 3,474,250.
Jennrich, Carleton E.; Haaker, Lester W.; and Jelatis, Demetrius G., 3,429,457.
Jennrich, Carleton E.; and Haaker, Lester W., 3,482,100.
Central Soya Company, Inc.: *See*—
Williams, Merl A., 3,438,520.
Williams, Merl A., 3,469,994.
Central Specialties Co.: *See*—
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A., 3,421,267.
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A., 3,421,274.
Schaffer, Robert G., 3,463,324.
Central Steel Tube Company: *See*—
Konkle, Raymond L., 3,447,319.
Central Transformer Corporation: *See*—
Perkins, Chester W., 3,421,073.
Centraline Laboratorium Przemyslu Koncentratow Spozywczych: *See*—
Pazola, Zdzislaw; Switek, Henryk; Janicki, Jozef; and Michnikowska, Wanda, 3,476,646.
Centre de Recherches de Pont-a-Mousson: *See*—
Bouzereau, Daniel Emile Henri, 3,432,989.
Bouzereau, Daniel Emile Henri, 3,463,294.
Lorang, Pierre Edouard, 3,438,427.
Lorang, Pierre Edouard, 3,456,716.
Pierrel, Michel, 3,452,713.
Tosi, Pierre Guy, 3,426,617.
Verdin, Jean-Marie Louis Augustin, 3,470,046.
Centre Electronique Horloger S.A.: *See*—
Chauvy, Daniel; Guye, Raymond; and Hubner, Kurt, 3,427,479.
Frossard, Remy; Hetzel, Max; Robert, Henri; and Haring, Henri, 3,446,006.
Hermann, Jean; Paratte, Daniel; and Forrer, Max, 3,484,804.
Hetzel, Max; Haring, Henri; and Robert, Henri, 3,428,937.
Hetzel, Max, 3,451,280.
Hetzel, Max; and Seigneur, Remy, 3,466,475.
Hetzel, Max, 3,470,401.
Hetzel, Max; Haring, Henri; and Robert, Henri, 3,481,137.
Hetzel, Max, 3,486,049.
Hubner, Kurt, 3,453,498.
Schmidt, Eberhardt, 3,486,109.
Waldburger, Heinz; and Ludin, Rolf, 3,449,904.
Centre National de la Recherche Scientifique: *See*—
Bonnemay, Maurice M.; Bronoel, Guy G.; Levart, Eugene; and Doniat, Denis, 3,484,292.
Bonnet, Maurice, 3,442,569.
Bourdais, Jacques, 3,445,460.
Cambou, Francis G.; and Cotin, Francis L., 3,446,958.
Chapiro, Adolphe; and Jendrychowska-Bonamour, Anna-Maria, 3,433,724.
Cotton de Bennetot,Michel M.; Lostis, Pierre J.; and Simon, Jacques F., 3,422,297.
Dumartin, Serge; Oksengorn, Boris; Tobin, Marvin; and Vodar, Boris, 3,469,920.
Foex, Marc; and Delmas, Robert, 3,476,907.
Garcia, Henri, 3,447,911.
Lafon, Jean-Claude; and Richard, Marc, 3,458,669.
Lerwill, William Edward; Caroussos, Panayotis; and Anstey, Nigel Allister, 3,460,095.
Levavasseur, Robert, 3,463,716.
Marfaing, Yves; Bailly, Francis; Cohen-Solal, Gerard; and Rodot, Michel, 3,472,685.
Mazerolles, Pierre, 3,485,803.
Muse, Louis Marcel, 3,422,345.
Neel, Louis; Bruyere, Jean-Claude; Massenet, Olivier; and Montmory, Robert, 3,484,757.
Nesteroff, Wladimir; Lancelot, Yves; and David, Bernard, 3,429,388.
Nomarski, Georges, 3,454,340.
Nomarski, Georges, 3,476,457.
Rioux, Christian, 3,461,350.
Rioux, Christian Paul Gilbert, 3,474,339.
Rumpf, Paul; and Thuiller, Germaine, born Nachmias, 3,448,196.
Rumpf, Paul; Thuillier, Jean-Eugene; and Chuillier, Germaine, born Nachmias, 3,457,273.
Storey, Owen, 3,457,557.
Villiers, Jacques J., 3,483,560.
Centre National de Recherches Metallurgiques: *See*—
Ledune, Jacques; and Nilles, Paul, 3,423,202.
Ledune, Jacques; and Nilles, Gaul, 3,476,550.
Meunier, Henri Gilbert, 3,448,375.
Pirlet, Robert, 3,475,859.
Centre Technique des Industries de la Fonderie: *See*—
Courtot, Pierre Albert, 3,448,922.
Centre Technique du Cuir: *See*—
Jullien, Irenee; and Pillard, Claude, 3,422,642.
Pillard, Claude, 3,426,557.
Centri-Engineering: *See*—
Badin, Ferdinand Edmond, 3,460,658.
Centro Informazioni Studi Esperienze s.r.l. (C.I.S.E.): *See*—
Perona, Giovanni; and Volta, Giuseppe, 3,478,412.
Century Electric Company: *See*—
Phillips, Graham R., 3,421,064.
Century Electric Motor Company: *See*—
Tremain, David L.; and Lotspih, Anthony J., 3,437,046.
Century Geophysical Corporation: *See*—
Baker, Arthur Y., Jr.; and Lindsay, Lonnie K., 3,482,255.
Hearn, Daniel P.; and Stedman, David D., 3,444,721.
Wilcox, Stanley W., 3,477,724.
Century Laboratories, Inc.: *See*—
Sloane, Nathan H., 3,477,910.
Sloane, Nathan H., 3,477,911.
Sloane, Nathan H., 3,477,912.
Sloane, Nathan H., 3,477,913.
Century Supreme Inc.: *See*—
Eubanks, James C., 3,438,077.
Ceonzo, Joseph A.: *See*—
Abbott, George F.; Ceonzo, Joseph A.; Isenberg, John F., Jr.; Johnson, Robert A.; and Regan, John M.,3,482,057.
Cepluch, Dale B. Assembly of elements supporting a bowling alley or the like. 3,476,387, 11-4-69, Cl. 273-51.
Cepollina, Frank J., to United States of America, National Aeronautics and Space Administration. Strain gauge measuring techniques. 3,460,378, 8-12-69, Cl. 73-88.5
Cepon, John R., to Anchor Coupling Co., Inc. Tube end connection. 3,437,358, 4-8-69, Cl. 285-286.
Ceraldi, Bernard A. Automatic soap dispenser. 3,434,628, 3-25-69, Cl. 222-52.
Ceramco Industrial Corporation: *See*—
Waltke, Robert W., 3,453,736.

Ceramics of Kansas, Inc.: *See—*
Salmans, Robert R., 3,438,670.
Ceramivac Mfg., Inc.: *See—*
Green, William; and Riazanow, Jerzy, 3,463,470.
Cerasani, Americo J., to Itek Corporation. Roller adjusting mechanism. 3,452,912, 7-1-69, Cl. 226-176.
Cerberus AG: *See—*
Brumm, Gerhard, 3,450,923.
Cerebos Foods Limited: *See—*
Saunders, James; and Crow, Stewart Ernest, 3,442,628.
Cerko, Robert S., to Hughes Aircraft Company. Coupled cavity traveling-wave tube with improved voltage stability and gain VS. frequency characteristic. 3,453,491, 7-1-69, Cl. 315-3.5
Cerles, Georges; and Fougeres, Michel, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Apparatus for cleaning and descaling tubular elements. 3,434,174, 3-25-69, Cl. 15-104.07
Cerlon, Peter J., to Xerox Corporation. Xerographic process utilizing a photoconductive alloy of thallium in selenium. 3,427,157, 2-11-69, Cl. 96-1.4
Cermak, Jiri; and Jakubec, Jindrich, to Vyzkumny a vyvojovy ustav Zavodu vseobecneho strojirenstvi. Trigger mechanism for automatic firearms for selective firing of a burst or a single shot. 3,478,644, 11-18-69, Cl. 89-140.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav, to Zavody Jana Svermy, narodni podnik. Trigger mechanism for automatic weapons. 3,447,525, 6-3-69, Cl. 124-11.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav, to Zavody Jana Svermy, narodni podnik. Cocking device. 3,447,526, 6-3-69, Cl. 124-40.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav, to Zavody Jana Svermy, narodni Podnik. Cartridge for missiles of weapons. 3,447,527, 6-3-69, Cl. 124-52.
Cermak, Jiri: *See—*
Novotny, Bohuslav; and Cermak, Jiri,3,456,553.
Cerman, Josef; Louda, Zdenek; Nepozitek, Ladislav; and Zak, Erantisek, to Skoda, oborovy podnik. Dosing apparatus for shredded tobacco. 3,486,573, 12-30-69, Cl. 177-74.
Cerneau, Pierre, to Societe de Chaudronnerie et de Montage Tissot & Cie. Devices for linking and guiding a carriage on a carriage on a metal sheet. 3,441,191, 4-29-69, Cl. 228-32.
Cerniglia, Nino P.: *See—*
Tonner, Richard C.; and Cerniglia, Nino P.,3,464,104.
Cernocky, Jiri: *See—*
Riha, Miloslav; Cernocky, Jiri; and Martinec, Josef,3,482,608.
Riha, Miloslav; Cernocky, Jiri; and Zgarba, Milan,3,451,435.
Ceroll, Gerald E.: *See—*
Hasten, Mark; Jones, Lee S.; Haub. John T.; and Ceroll, Gerald E.,3,446,138.
Cerro Corporation: *See—*
Coltrinari, Enzo L., 3,477,928.
Shelton, Charles F., Jr., 3,425,865.
Certain, George M., to Cooling Products, Inc. Welding apparatus. 3,428,777, 2-18-69, Cl. 219-125.
Certain-Teed Fiber Glass Corporation: *See—*
Krakauer, Sidney; Musikant, Solomon; and Rosenberg, David J., 3,429,681.
Certain-Teed Products Corporation: *See—*
Burris, Donald D., 3,423,891.
Hawkins, Frederick E., 3,423,895.
Jackson, Joseph C.; and Scipt, Willard R., 3,427,374.
Jackson, Joseph C.; and Scipt, Willard R., 3,428,721.
Thiessen, Leo K., 3,454,287.
Certain-Teed Saint Gobain Insulation Corporation: *See—*
Belfield, Robert E.; and Vogel, Arthur C., 3,444,028.
Pall, David B.; Belfield, Robert Earle; Rosenberg, David J.; and Vogel, Arthur C., 3,446,684.
Certified Chemical & Equipment Company, The: *See—*
Boyd, Reed Lake, 3,428,985.
Certipak Corporation: *See—*
Compton, Keith B., 3,481,104.
Certo, Beatrice. Eyeglass cleaner. 3,464,080, 9-2-69, Cl. 15-302.
Cerulli, Nicholas F., to Westinghouse Electric Corporation. Method of removing carbon from mixtures of tungsten powder and thoria and insuring a uniform dispersing of thoria. 3,451,803, 6-24-69, Cl. 75-0.5
Cerutti, Giacomo, to Bemberg S.p.A. Method for the preparation of linear polyesters. 3,485,801, 12-23-69, Cl. 260-75.
Cerutti, Giacomo, to Bemberg S.p.A. Method for heating a thermoplastic thread. 3,485,984, 12-23-69, Cl. 219-10.41
Cerutti, Giacomo; and Faraci, Giorgio, to Bemberg S.p.A. Device and method for treating a running artificial multifilamentary thread with a gas jet. 3,425,108, 2-4-69, Cl. 28-1.
Cerutti, Giacomo; and Faraci, Giorgio, to Bemberg S.p.A. Method and means for treating with a gasiform stream a thread bundle made of a plurality of elementary threads. 3,484,914, 12-23-69, Cl. 28-1.4
Cerutti, Giacomo; Faraci, Giorgio; and Tovaglieri, Fabio, to Bemberg S.p.A. Process for the manufacture of a composite yarn which is provided with spaced slubs. 3,438,194, 4-15-69, Cl. 57-157.
Cerutti, Giacomo; and Lanza, Alberto, to Bemberg S.p.A. Apparatus for melting synthetic linear polymers and feeding them to a spinneret. 3,434,180, 3-25-69, Cl. 18-8.
Cerutti, Giovanni: *See—*
Costa, Armando; and Cerutti, Giovanni,3,435,692.
Cerutti, Giovanni; and Cretaz, Franco, to Ing. C. Olivetti & C., S. p.A. Guiding device for a punched record support of a reading or punching apparatus. 3,481,521, 12-2-69, Cl. 226-89.
Ricciardi, Giuseppe; and Cerutti, Giovanni,3,476,300.
Cervenka, Frank E.: *See—*
Jones, Alfred W.; and Cervenka, Frank E.,3,458,201.
Cervenka, Lee Roy: *See—*
Vaught, Leonard M.; and Cervenka, Lee Roy,3,439,080.
Cervini, John J.: *See—*
Hulse, Robert E.; and Cervini, John J.,3,454,519.
Cesanek, James John: *See—*
Dickstein, Jack; Cooperman, Isadore Nathan; and Cesanek, James John,3,442,831.
Cesca, Sebastiano: *See—*
Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo,3,464,959.
Marconi, Walter; Cesca, Sebastiano; and Arrighetti, Sergio,3,467,639.
Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo,3,470,138.
Cescon, Lawrence Anthony, to Du Pont de Nemours, E. I., and Company. Photosensitive composition. 3,445,233, 5-20-69, Cl. 96-90.
Cescon, Lawrence Anthony; and Dessauer, Rolf, to Du Pont de Nemours, E. I., and Company. Leuco dye/hexaarylbiimidazole image-forming composition. 3,445,234, 5-20-69, Cl. 96-90.
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth, to Du Pont de Nemours, E. I., and Company. Selectively substituted methane leuco dyes. 3,423,427, 1-21-69, Cl. 260-329.
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth, to Du Pont de Nemours, E. I., and Company. Triphenylmethane derivatives. 3,449,379, 6-10-69, Cl. 260-393.
Ceskoslovenska akademie ved: *See—*
Balcar, Oldrich; and Vavrina, Karel, 3,456,291.
Balej, Jan; Paseka, Ivo; Vondrak, Jiri; and Regner, Albert, 3,431,193.
Barta, Jiri; Fechtner, Jan; Hanzlicek, Jiri; Verner, Miroslav; and Vesely, Dobromil, 3,464,919.
Binek, Bedrich; and Dohnalova, Blanka, 3,486,827.
Duchek, Ladislav; and Hasenohrl, Jan, 3,433,360.
Erdos, Emerich; and Bares, Jiri, 3,432,404.
Figar, Stepan, 3,464,403.
Hekrdle, Jan, 3,441,835.
Hrdina, Jiri, 3,422,667.
Hrdina, Jiri, 3,431,789.
Hrdina, Jiri, 3,437,050.
Hrdina, Jiri, 3,437,051.
Hrdina, Jiri, 3,458,285.
Hrdina, Jiri, 3,463,179.
Hrdina, Jiri, 3,471,262.
Hrdina, Jiri, 3,472,627.
Hrdina, Jiri, 3,472,628.
Hrdina, Jiri, 3,482,451.
Hrdina, Jiri, 3,485,295.
Mackrle, Svatopluk; Mackrle, Vladimir; and Dracka, Oldrich, 3,429,442.
Pinkava, Jan, 3,441,144.
Rudinger, Josef; and Jost, Karel, 3,446,789.
Sochor, Cestmir, 3,463,615.
Vit, Jaroslav; Prochazka, Vladimir; and Salat, Vaclav, 3,460,821.
Wichterle, Otto, 3,476,499.
Cessna Aircraft Company, The: *See—*
Cummings, Dale K., 3,455,396.
Darling, Marvin C., 3,470,792.
Freese, Evans Glenn, 3,458,224.
Miller, Wendell E., 3,463,034.
Miller, Wendell E., 3,486,334.
Cesta, Frank. Replaceable heels for shoes. 3,432,945, 3-18-69, Cl. 36-36.
Cetran, Louis; and Donovan, Timothy F., to Mite Corporation. Tension tester for sewing machine thread. 3,455,154, 7-15-69, Cl. 73-144.
Cetrone, Vincent B.: *See—*
Oakes, Grant A.; and Cetrone, Vincent B.,3,446,052.
Cevallos, William H.; Holmes, William L.; and Rubinstein, Richard I., to Smith, Kline & French Laboratories. Hypocholesterolemic natural products and the preparation of such from the livers of starved mammals. 3,467,749, 9-16-69, Cl. 424-106.
Ceyba, George A., 51% to Sniderman, Mayer J., and 5% to Fuehr, Ralph. Aerosol can perforator-gas and air releaser. 3,438,548, 4-15-69, Cl. 222-80.
Ceyzeriat, Louis Frederic: *See—*
Boissieras, Jean; and Ceyzeriat, Louis Frederic,3,429,847.

CF & I Steel Corporation: *See—*
Nachazel, John S., 3,454,261.
CFT-Compagnie Francaise de Television: *See—*
de France, Henri; and Cahen, Roger R., 3,429,731.
Chabal, Joseph: *See—*
Junge, Albert E.; and Chabal, Joseph,3,421,921.
Junge, Albert E.; and Chabal, Joseph,3,457,096.
Chaban, Castulo, Jr., to Du Pont de Nemours, E. I., and Company. Means to splay and coat filamentary yarn. 3,468,284, 9-23-69, Cl. 118-44.
Chabardes, Pierre Jean Antonine; Grard, Charles Camille Dominique; and Thiers, Michel Pierre Francois, to Rhone-Poulenc S.A. Preparation of adiponitrile. 3,444,235, 5-13-69, Cl. 260-465.8
Chabardes, Pierre; Gandilhon, Pierre; Thiers, Michel; and Grard, Charles, to Rhone-Poulenc S.A. Complexes of ruthenium halides and organic nitriles. 3,449,387, 6-10-69, Cl. 260-429.
Chabbal, Robert: *See—*
Ben Mena, Taoufik; Chabbal, Robert; and Gerstenkorn, Simon,3,475,100.
Chaboseau, Jacques; and Mech, Christian, to Societe Rateau. Axial thrust devices for rotating machines. 3,476,449, 11-4-69, Cl. 308-10.
Chabot, Edward W., to Millers Falls Company. Method of producing commutator lead connection. 3,421,212, 1-14-69, Cl. 29-628.
Chabot, Leo L.: *See—*
Cugini, John A.; and Chabot, Leo L.,3,425,395.
Chabrelot, Paul L. Wig carrying case. 3,438,480, 4-15-69, Cl. 206-8.
Chace, W. M., Company: *See—*
Perry, Charles C., 3,453,888.
Perry, Charles C., 3,483,360.
Chadbourn Gotham, Inc.: *See—*
Ditrich,Gunter, 3,452,691.
Chadha, Rajendra Nath; and Pande, Kailash Chandra, to Stauffer Chemical Company. Diorgano-(alkoxy)tin halides. 3,470,221, 9-30-69, Cl. 260-429.7
Chadha, Rajendra Nath; Pande, Kailash Chandra; and Ridenour, Richard Eugene, to Stauffer Chemical Company. Room temperature curing organopolysiloxane elastomers. 3,440,205, 4-22-69, Cl. 260-37.
Chadwick, Earl L. Saw chain. 3,444,907, 5-20-69, Cl. 143-135.
Chadwick, Francis Neville; Broad, David; and Boutle, David Leonard, to Mason, E. N., & Sons Limited. Translucent display elements. 3,475,762, 10-28-69, Cl. 346-135.
Chadwick-Helmuth Electronics, Inc.: *See—*
Helmuth, James G., 3,477,281.
Chafetz, Harry: *See—*
Blackley, William D.; Siegart, William R.; and Chafetz, Harry,3,429,937.
Siegart, William R.; Blackley, William D.; Chafetz, Harry; and McMahon, Matthew A., Jr.,3,480,667.
Chafetz, Harry; and Mead, Theodore C., to Texaco Inc. Method of preparing ketoacids. 3,468,944, 9-23-69, Cl. 260-526.
Chaffee, Linda P.: *See—*
Leffingwell, Lawrence B.; Taylor, Richard A.; and Chaffee, Linda P.,3,472,022.
Chaffee, Roger G., to Dow Corning Corporation. Organosilicon epoxides. 3,445,483, 5-20-69, Cl. 260-348.
Chagnon, Paul L., to Sylvania Electric Products, Inc. Method of producing semiconductor devices. 3,464,105, 9-2-69, Cl. 29-588.
Chaikin, Malcolm; Dircks, Alexander Douglas; and Rokfalussy, Desmond Michael. Combing machines for wool and other textile fibres. 3,445,896, 5-27-69, Cl. 19-123.
Chaille, James L.; Niederhauser, Warren D.; and Kennedy, Al, to Rohm & Haas Company. Acrylamide perchlorates and polymers thereof. 3,427,297, 2-11-69, Cl. 260-89.7
Chaille, James L.; and Reed, Samuel F., Jr., to Rohm & Haas Company. Process for the preparation of acrylamide and methacrylamide perchlorates. 3,440,280, 4-22-69, Cl. 260-561.
Chaille, James L.; and Walker, Robert W., to United States of America, Army, mesne. Solid nitrocellulose-nitroglycerin propellant with burning rate modifiers containing dinitroacetonitrile salts. 3,450,583, 6-17-69, Cl. 149-18.
Chaimowicz, Jean-Claude Adam, to Mining & Chemical Products Limited. Solid-state photodiode and transistor encapsulated assembly. 3,475,617, 10-28-69, Cl. 250-239.
Chak Ma, Francis Tin. Springs and/or shock absorbers. 3,424,448, 1-28-69, Cl. 267-35.
Chakroff, Richard O. Coupling having concentric spherical surfaces sealed by line contact. 3,451,698, 6-24-69, Cl. 285-165.
Chalco Engineering Corporation: *See—*
Bevis, Jeffrey M., 3,441,742.
Chalenski, Arthur A., Jr.; and Hughes, Walton, to General Motors Corporation. Fluid filling method and apparatus. 3,460,591, 8-12-69, Cl. 141-7.
Chalfin, Bernard D.; and Peterson, Richard J., to C & C Button & Trimming Co., Inc. Button assembling machine. 3,442,163, 5-6-69, Cl. 79-5.
Chalfin, William L.; and Garvey, Edward Christopher, said Garvey assor. to said Chalfin. Elastic construction. 3,444,562, 5-20-69, Cl. 2-338.
Chalifour, Henri R.: *See—*
Moroney, William J.; and Chalifour, Henri R.,3,457,471.
Chalk, Julian L.: *See—*
Reznicek, Raymond A.; and Chalk, Julian L.,3,426,531.
Challenge-Cook Bros., Incorporated: *See—*
Freze, Benjamin H., 3,419,969.
Jackson, Robert E.; and Idoine, Harry E., 3,421,447.
Prichard, Evan S.; and Brennan, George A., 3,456,769.
Taggart, Percy Royce, 3,420,390.
Challenger, Frederick R.: *See—*
West, Ernest; Cotton, Ivan C.; Challenger, Frederick R.; and Cotton, Ivan C.,3,449,930.
Challis, Kenneth Ernest: *See—*
Turner, Stanley Berry; and Challis, Kenneth Ernest,3,430,848.
Chalmers, Alexander A., to Alcan Aluminum Corporation. Composite strip shingle. 3,468,092, 9-23-69, Cl. 52-543.
Chalmers, David Arthur; and Clements, Harold John, to Modern Precision Engineers (Finchley) Limited. Electromagnetic switches utilizing remanent magnetic material. 3,486,138, 12-23-69, Cl. 335-151.
Chalmers, David Calder; and Mitchell, Joseph Maxwell, to Polymer Corporation Limited. Agglomeration and concentration of synthetic latex. 3,438,924, 4-15-69, Cl. 260-29.7
Chalmers, Edward J. Self-priming boat bailer. 3,460,503, 8-12-69, Cl. 114-185.
Chalmers, Franklin L.: *See—*
Barry, Adelbert; Chalmers, Franklin L.; and Pearson, John B.,3,480,101.
Chalmers, John R.; and Stilmar, Frederic B., to Du Pont de Nemours, E. I., and Company. Vinylidene fluoride interpolymers. 3,451,978, 6-24-69, Cl. 260-78.5
Chalupnik, Vaclav: *See—*
Harvanek, Adolf; and Chalupnik, Vaclav,3,464,558.
Chalwynn Limited: *See—*
Fry, Henry Gordon, 3,423,097.
Chamberlain, Billy S.; Shinn, Byron J.; and Sunderland, Luther D., to General Electric Company. Redundant analog failure correction and detection process and apparatus. 3,420,993, 1-7-69, Cl. 235-184.
Chamberlain, Charles A. Air-conditioned meat cutting table. 3,422,600, 1-21-69, Cl. 55-126.
Chamberlain, Darwin G.: *See—*
Di Leva, Anthony Joseph, 3,464,154.
Chamberlain, George: *See—*
Tetzlaff, Clarence C.; and Chamberlain, George,3,454,996.
Tetzlaff, Clarence C.; and Chamberlain, George,3,477,106.
Chamberlain, Harry V.: *See—*
Muenchow, Herbert O.; Chamberlain, Harry V.; Chase, Wayne L.; and Bucki, Joseph,3,442,118.
Chamberlain, John, to United Aircraft Corporation. Cold gas tank pressurizing system. 3,473,343, 10-21-69, Cl. 62-45.
Chamberlain, Julius J., Jr.; and Botts, Kenneth C., to Pharr Yarns, Inc. Bulky textile yarn and method of forming same. 3,469,387, 9-30-69, Cl. 57-140.
Chamberlain, Lamar E.: *See—*
Putt, Joseph W.; and Chamberlain, Lamar E.,3,482,617.
Chamberlain, Leon Hoyt. Method and apparatus for diluting soap with an aqueous liquid. 3,481,350, 12-2-69, Cl. 137-3.
Chamberlain Manufacturing Corporation: *See—*
Goldstein, Richard, 3,443,339.
Herman, Irving; and Andreassen, Donald, 3,434,422.
Chamberlain, Paul E.: *See—*
Potter, Charles E.; and Chamberlain, Paul E.,3,423,107.
Chamberlain, Ralph Joseph, to American Cyanamid Company. Process for the manufacture of cigarette containing cyanamide-cellulose acetate filter elements. 3,438,806, 4-15-69, Cl. 117-144.
Chamberlain, Ralph Joseph; and Nagy, Daniel Elmer, to American Cyanamid Company. Storage-stable cyanamide-starch and method for the manufacture thereof. 3,438,970, 4-15-69, Cl. 260-233.3
Chamberlain, Ralph Jseph, to American Cyanamid Company. Nitrogenated natural products and processes under alkaline conditions. 3,483,184, 12-9-69, Cl. 260-212.
Chamberlain, Ted C. Overhead cam conversion kit. 3,472,212, 10-14-69, Cl. 123-90.
Chamberlain, Thomas E. Seat belt assembly. 3,482,872, 12-9-69, Cl. 297-386.
Chamberlin, Alfred H., to Continental Can Company, Inc. Method of assembling dispensing containers. 3,429,026, 2-25-69, Cl. 29-421.
Chamberlin, Henry S., Jr.; Graves, Roger E., Jr.; and Kelley, Joseph P., to Bio-Dynamics, Incorporated. Performance display apparatus. 3,454,942, 7-8-69, Cl. 340-323.
Chamberlin, James W., to Lilly, Eli, and Company. 3,5-Dimethoxybenzyl carbonate esters. 3,467,690, 9-16-69, Cl. 260-463.
Chamberlin Manufacturing Corporation: *See—*
Goldstein, Richard, 3,445,848.
Chamberlin, Rhodes R., to National Cash Register Company, The. Photoconductive matrix sheet. 3,449,705, 6-10-69, Cl. 338-17.
Chamberlin, Richard M., to Westinghouse Electric Corporation. Flash evaporator with duct and baffle means. 3,427,227, 2-11-69, Cl. 202-173.

Chamberlin, Richard S., to United States of America, Navy, mesne. Molecular pulse time-division multiplexer. 3,432,850, 3-11-69, Cl. 343-5.

Chamberlin, Robert Simons: *See—*
Stafford, Donald Claude; and Chamberlin, Robert Simons,3,429,128.

Chamberlin, Robert S.; Orr, Clifford M.; and Schmitz, Ewald F., to United States of America, Navy, mesne. System or apparatus for simulating submarine testing conditions. 3,453,879, 7-8-69, Cl. 73-148.

Stafford, Donald C.; Chamberlin, Robert S.; and Johnson, Paul R.,3,441,262.

Chambers, Charles D., to Geigy Chemical Corporation. Plug valve assembly for aerosol bomb type dispensers of fluid products. 3,442,425, 5-6-69, Cl. 222-193.

Chambers, Charles D., to Valve Corporation of America. Method of pressurizing a dispensing container. 3,477,195, 11-11-69, Cl. 53-37.

Chambers, Clarence M.: *See—*
Lyster, Norman J.; and Chambers, Clarence M.,3,422,596.

Chambers Corporation: *See—*
Klepzig, Glen W., 3,453,997.

Chambers, Dale T.: *See—*
Fristoe, John E.; and Chambers, Dale T.,3,466,889.

Chambers, George: *See—*
Hall, Kenneth Frank; and Chambers, George,3,428,387.

Chambers, Henry B., to Hydronautics. Hydraulic gripper for derrick skidding. 3,464,095, 9-2-69, Cl. 24-263.

Chambers, Herbert I., to Consolidated Electrodynamics Corporation. Oscillograph with means for providing second record of the input. 3,430,253, 2-25-69, Cl. 346-66.

Chambers, Jack A.; and Woodson, Leslie A., to Shamban, W. S., & Company. Pipe joint seal and method. 3,439,945, 4-22-69, Cl. 285-373.

Chambers, James C. Dispenser for selecting quantities of like bodies. 3,446,397, 5-27-69, Cl. 221-296.

Chambers, John E. Resilient membered judo training device. 3,421,759, 1-14-69, Cl. 272-76.

Chambers, John E. Spiral air filter. 3,423,905, 1-28-69, Cl. 55-294.

Chambers, John E. Connection for sheet metal ducts. 3,428,342, 2-18-69, Cl. 285-399.

Chambers, Joseph W., Sr., to Atomic Disposer Corporation. Cutting assembly and element for disposers. 3,455,518, 7-15-69, Cl. 241-257.

Chambers, Michael B., to Blair Products S.A. Device for closing and locking a door, in particular for vehicles and containers. 3,464,729, 9-2-69, Cl. 292-218.

Chambers, Robert G., to Sinclair Research, Inc. Sampling valve apparatus. 3,483,754, 12-16-69, Cl. 73-462.

Chambers, Robert O., to Caterpillar Tractor Company. Compact broad range power transmission. 3,440,901, 4-29-69, Cl. 74-677.

Chambers, Robert R.: *See—*
Carlos, Donald D.; Young, David W.; and Chambers, Robert R.,3,475,338.

Chambers, Robert R.; Isaacson, Henry V.; and Young, David W., to Sinclair Research, Inc. Lubricant emulsion containing a vinyl-maleic acid thioester or thioetherester-polymer salt as an emulsifying agent. 3,472,772, 10-14-69, Cl. 252-34.7

Chambers, Robert W.: *See—*
Donald, Philip J.; and Chambers, Robert W.,3,453,439.

Chambers, Vaughan Crandall, Jr., to Du Pont de Nemours, E. I., and Company. Photopolymerizable compositions and layers containing 2,4, 5-triphenylimidazoyl dimers. 3,479,185, 11-18-69, Cl. 96-84.

Chambers, Worthy L., to Sunbeam Corporation. Battery powered electric knife. 3,432,702, 3-11-69, Cl. 310-50.

Chambers, Worthy L., to Sunbeam Corporation. Trigger switch for electric appliance. 3,461,556, 8-19-69, Cl. 30-272.

Chambers, Worthy L.: *See—*
Ponczek, George M.; Chambers, Worthy L.; and Ritter, Frederick J.,3,439,204.

Chambert, Lars Axel A., to AB Svenska Maskinverken. Steam generator with forced circulation. 3,464,393, 9-2-69, Cl. 122-406.

Chambert, Lars Axel, to AB Svenska Maskinverken. Pump with spherical pump housing. 3,476,488, 11-4-69, Cl. 415-182.

Chambes, Robert R.: *See—*
Carlos, Donald D.; Chambes, Robert R.; and Young, David W.,3,449,252.

Chambless, Edward J., Jr., to St. Regis Paper Company. Automatic bagging machines. 3,421,286, 1-14-69, Cl. 53-190.

Chambon, Louis Jean, to Societe d'Etudes de Machines Speciales, Societe Anonyme. Wet-offset rotary presses. 3,424,084, 1-28-69, Cl. 101-219.

Chambon, Louis Jean, to Societe d'Etudes de Machines Speciales Societe Anonyme. Machine for the continuous moulding of a pulverulent or crystalline product in the form of separate lumps. 3,436,791, 4-8-69, Cl. 18-4.

Chameroy, Jean, to Societe Anonyme: Groupement Atomique Alsacienne Atlantique (G.A.A.A.). Gaseous mixture. 3,464,927, 9-2-69, Cl. 252-372.

Chamlee, William D., to Day & Zimmermann, Inc. Dispensing apparatus with invertible feed duct. 3,426,946, 2-11-69, Cl. 222-306.

Chamot, Walter M.; and Burke, John T., to Nalco Chemical Company. Method of flocculating suspended solids using copolymers as flocculating agents. 3,479,282, 11-18-69, Cl. 210-54.

Champ, Robert B.; and Halperin, Bernard I., to International Business Machines Corporation. Diazotype materials and methods for producing diazotype images. 3,427,165, 2-11-69, Cl. 96-49.

Champaigne, John F., Jr., to Kimberly-Clark Corporation. Sanitary napkin with conformable wrapper. 3,460,536, 8-12-69, Cl. 128-290.

Champion Laboratories, Inc.: *See—*
Fann, James D., 3,435,666.
Hultgren, William Herbert, 3,473,664.

Champion Papers Inc.: *See—*
Thompson, Kenneth; and Ihde, Richard C., 3,482,278.

Champion Pneumatic Machinery Company, Inc.: *See—*
Catterson, Robert K., 3,458,114.

Champion Products Inc.: *See—*
Hodgson, George T., Jr.; and Raphael, Thomas, 3,471,428.

Champion, Ronald Cheyney: *See—*
Moon, Anthony James Robertson; and Champion, Ronald Cheyney,3,427,952.

Champion Spark Plug Company: *See—*
Anderson, Rolland L., 3,458,297.
Bretsch, Michael A., 3,468,004.
Rea, Robert F.; and Dulin, Francis H., 3,441,487.
Rea, Robert F., 3,442,693.

Champion, William J. Granular pesticidal compositions containing a finely divided carbon such as graphite. 3,461,201, 8-12-69, Cl. 424-125.

Champlin, Charles L., to Packaging Corporation of America. Shipper carton. 3,445,054, 5-20-69, Cl. 229-40.

Champness, Clifford H.: *See—*
Griffiths, Clifford H.; Sang, Harry M.; and Champness, Clifford H.,3,473,095.

Chan, John K.; and Marcus, Erich, to Union Carbide Corporation. Process for preparing trihydrocarbyltin acetoacetates. 3,448,131, 6-3-69, Cl. 260-429.7

Chan, John K.: *See—*
Marcus, Erich; and Chan, John K.,3,449,372.

Chan, See Fong. Automatic calculating and printing system with storage components. 3,458,690, 7-29-69, Cl. 235-146.

Chan, Yum T., to Hughes Aircraft Company. Voltage controlled crystal oscillator. 3,477,039, 11-4-69, Cl. 331-116.

Chana, Howard E., to General Motors Corporation. Transmission and controls. 3,442,152, 5-6-69, Cl. 74-645.

Chanal, Roger, to Bennes Marrel. Hydraulic pumps and motors having axial pistons and inclined swashplated. 3,433,173, 3-18-69, Cl. 103-162.

Chanal, Roger, to Bennes Marrell. Regulator for a variable delivery hydraulic pump. 3,461,804, 8-19-69, Cl. 103-38.

Chance, A. B., Company: *See—*
Curtis, Thomas E., 3,471,669.
Curtis, Thomas E., 3,487,255.
Hollander, William L., 3,427,812.
Hubbard, David C.; and Zumsteg, David B., 3,431,538.
Hubbard, David C.; and Harper, James K., 3,472,395.
Prescott, William A.; Wacht, Raymond J.; and Stallard, Wayne R., 3,461,989.

Chance Brothers Limited: *See—*
Andrews, Richard Charles; and Bedford, Arthur Hugh, 3,420,648.

Chance, Calvin L., to Teledyne Exploration Company, mesne. Streamer cable depth control. 3,440,992, 4-29-69, Cl. 114-235.

Chance, Dudley A., to International Business Machines Corporation. Process for etching silicon monoxide and etchant solutions therefor. 3,434,896, 3-25-69, Cl. 156-17.

Chance, Harold C. Setting tool for bolt anchor. 3,472,052, 10-14-69, Cl. 72-114.

Chance, Leon H.; Leonard, Ethel K.; and Drake, George L., Jr., to United States of America, Agriculture. Haloalkyl phosphinic acids and their application to cotton. 3,484,184, 12-16-69, Cl. 8-120.

Chance Manufacturing Company, Inc.: *See—*
Brown, Joseph M., 3,456,943.

Chance, Maynard R.: *See—*
Packard, Leslie M.; and Chance, Maynard R.,3,432,374.

Chanceller Chair Company: *See—*
Chancellor, Charles W., Jr., 3,449,838.

Chancellor, Charles W., Jr., to Chanceller Chair Company. Combination wall mounted dryer and heater. 3,449,838, 6-17-69, Cl. 34-90.

Chancellor, Forrest E.; and Chancellor, Robert O. Port collar for well casings and method for packing well bores. 3,464,493, 9-2-69, Cl. 166-285.

Chancellor, Robert O.: *See—*
Chancellor, Forrest E.; and Chancellor, Robert O.,3,464,493.

Chancellor, William J., to University of California, The Regents of the. Method of and apparatus for singling seeds for planting. 3,470,669, 10-7-69, Cl. 53-35.

Chand, Ramesh, to Analytic Systems Company. Method of making oxygen measuring cells. 3,449,162, 6-10-69, Cl. 117-210.

Chandler & Price Company, The: *See—*
Malm, John A., 3,452,630.
Chandler, Arthur D., Jr.; and Florestano, Herbert J., to Dow Chemical Company, The. Griseofulvin-perezone composition. 3,471,615, 10-7-69, Cl. 424-195.
Chandler, Charles G.; and Eells, Rex, to Eastman Kodak Company. Heat-sealed blister package. 3,450,256, 6-17-69, Cl. 206-78.
Chandler, Charles H.: *See—*
Coneybear, J. Frank; Chandler, Charles H.; and Andrisin, John J., Jr.,3,463,311.
Chandler, Edgar F., to General Electric Company. Variable frequency and voltage electric power inverter utilizing an auxiliary source of fixed- magnitude commutating voltage. 3,474,320, 10-21-69, Cl. 321-5.
Chandler, Edmond A.; and Winslow, Kenelm W., to USM Corporation. Adhesive processes. 3,483,581, 12-16-69, Cl. 12-142.
Chandler Evans Inc.: *See—*
Falk, Ronald E., 3,421,318.
Guzewicz, Edmund A., 3,427,698.
La Penta, Joseph H., 3,481,637.
Oelrich, John A., 3,430,536.
Prentiss, Augustin M., 3,424,140.
Chandler, Huel H., Jr.; Morrell, Henry P.; and Sayers, Paul G., to Martin-Marietta Corporation. Ceramic filled plastic system. 3,459,701, 8-5-69, Cl. 260-37.
Chandler, James Leon, to Cortland Industries, Inc. Fly leader for fly fishing line. 3,453,769, 7-8-69, Cl. 43-44.98
Chandler, Jasper S., to Eastman Kodak Company. Case for a projection screen. 3,469,899, 9-30-69, Cl. 350-123.
Chandler, John W., to Hempel's Marine Paints, Inc., mesne. Polymeric compositions and protective coatings. 3,442,824, 5-6-69, Cl. 260-2.
Chandler, Joseph A., to United States of America, National Acronautics and Space Administration. Spacecraft radiator cover. 3,465,482, 9-9-69, Cl. 52-3.
Chandler, Joseph H., to Lockheed Aircraft Corporation. Protective shield for telescriber machines. 3,480,728, 11-25-69, Cl. 178-18.
Chandler, Kenneth H. Hose coupling assembly. 3,479,058, 11-18-69, Cl. 285-16.
Chandler, Mark: *See—*
Wofford, George D.; and Chandler, Mark,3,472,967.
Chandler, Ray J., to Mobil Oil Corporation. Welded joint for lined pipe. 3,467,410, 9-16-69, Cl. 285-55.
Chandler, Robert F., Jr., to General Electric Company. Vehicle logging system. 3,486,009, 12-23-69, Cl. 235-92.
Chandler, Scott S.; and Ray, Charles L., to Armour Industrial Chemical Company, mesne. Coated dust free phosphate feed supplement. 3,468,667, 9-23-69, Cl. 99-2.
Chandler, Wesley M.; Heuser, Paul F.; and Juba, Bernard T., to Wilbert, Inc. Burial vaults. 3,439,461, 4-22-69, Cl. 52-139.
Chandler, Wesley M.; and Juba, Bernard T., to Wilbert, Inc. Burial vaults. 3,464,171, 9-2-69, Cl. 52-124.
Chandler, William Lloyd: *See—*
Farmer, Roy F.; and Chandler, William Lloyd,3,459,558.
Chandley, George D., to TRW Inc. Airfoil. 3,423,069, 1-21-69, Cl. 253-39.15
Chandley, George D., to TRW, Inc. Method and apparatus for improving grain structures and soundness of castings. 3,441,078, 4-29-69, Cl. 164-53.
Chandley, George D.; and Uram, Stuart Z., to TRW Inc. Method for reducing metal casting porosity. 3,420,291, 1-7-69, Cl. 164-66.
Chandley, George D.: *See—*
Spoth, Nelson G.; and Chandley, George D.,3,484,840.
Chandos, Laurence R. Display banners. 3,477,158, 11-11-69, Cl. 40-128.
Chandos, Robert E., to North American Rockwell Corporation. Non-injection self-adaptive controller. 3,428,791, 2-18-69, Cl. 235-151.1
Chandos, Robert Eugene: *See—*
Cussen, Arthur John; and Chandos, Robert Eugene,3,474,249.
Chaney, Allen L.; and Cart, Eldred N., Jr., to Esso Research and Engineering Company. Apparatus for the production of petroleum coke having an improved precombustor. 3,443,908, 5-13-69, Cl. 23-284.
Chaney, Donal W., to Harsco Corporation. Multiple axle system for vehicles. 3,458,213, 7-29-69, Cl. 280-104.5
Chaney, Donal W., to Harsco Corporation. Multiple axle system for vehicles. 3,473,820, 10-21-69, Cl. 280-104.5
Chaney, John L. Elastomeric ring-like members for biasing spectacle temples. 3,428,392, 2-18-69, Cl. 351-113.
Chaney, John L. Thermometer. 3,433,076, 3-18-69, Cl. 73-374.
Chaney, John W. Prefabricated roof. 3,421,270, 1-14-69, Cl. 52-90.
Chaney, Paul M.: *See—*
Sutton, Ralph O., 3,426,204.
Chaney, Paul R.: *See—*
Parsons, Robert W.; and Chaney, Paul R.,3,437,139.
Chaney, Preston E.; Ince, Richard W.; and Mason, Charley Mack, to Sun Oil Company. Retorting of bituminous sands. 3,487,002, 12-30-69, Cl. 208-11.
Chaney, Verne E., Jr. Cleansing packet and strip package comprising such packets. 3,485,349, 12-23-69, Cl. 206-56.
Chaney, Willard O., to Standard International Corporation, mesne. Method of securing an electrical component to a circuit board. 3,486,224, 12-30-69, Cl. 29-626.
Chang, Charles H., to GAF Corporation. Production of 2-amino-3-nitrobenzoic acid. 3,468,941, 9-23-69, Cl. 260-518.
Chang, Chung-Wie. Apparatus for continuous steel refining. 3,464,687, 9-2-69, Cl. 266-37.
Chang, David Teh-Liang, to Ampex Corporation. Electrical motor-tachometer mounting. 3,429,494, 2-25-69, Cl. 226-188.
Chang, Hsu; and Genovese, Eugene R., to International Business Machines Corporation. Memory element having two orthogonally disposed magnetic films. 3,461,438, 8-12-69, Cl. 340-174.
Chang, Hsu; Mee, Charles Denis; Voegeli, Otto; and Middelhoek, Simon, to International Business Machines Corporation. Magnetic film memory with creep prevention means. 3,440,623, 4-22-69, Cl. 340-174.
Chang, James T. H., to Bell Telephone Laboratories, Incorporated. Content addressable magnetic memory. 3,461,440, 8-12-69, Cl. 340-174.
Chang, Kern K. N., to RCA Corporation. Semi-conductor delay line. 3,466,575, 9-9-69, Cl. 333-29.
Chang, Kern K. N., to RCA Corporation. High frequency semiconductor systems using electric fields perpendicular to the direction of wave propagation. 3,470,375, 9-30-69, Cl. 250-199.
Chang, Kuo T.: *See—*
Kukel, Joseph; Chang, Kuo T.; and Yarber, Gordon W.,3,452,948.
Yarber, Gordon W.; and Chang, Kuo T.,3,471,105.
Chang, Leroy L.; and Esaki, Leo, to International Business Machines Corporation. Insulated-gate field effect transistor with nonplanar gate electrode structure for optimizing transconductance. 3,450,960, 6-17-69, Cl. 317-235.
Chang, Ned; Robinson, Prentice I.; and Wang, An, to Wang Laboratories, Inc. Programmable calculating apparatus. 3,428,950, 2-18-69, Cl. 340-172.5
Chang, Nien-Chih: *See—*
Lefever, Robert A.; Chang, Nien-Chih; White, Robert L.; and Wickersheim, Kenneth A.,3,454,899.
Chang, Paul T.: *See—*
Bertelsen, Bruce I.; Kump, Herbert J.; and Chang, Paul T.,3,465,311.
Chang, Richard Shih-Teng: *See—*
Ryan, John W.; and Chang, Richard Shih-Teng,3,450,239.
Ryan, John W.; Chang, Richard Shih-Teng; and Rosen, Robert,3,420,530.
Ryan, John W.; Echterling, Eugene J.; Golden, Michael E.; Goetz, John H.; and Chang, Richard Shih-Teng,3,477,140.
Chang, Richard Shin-Teng: *See—*
Ryan, John W.; Chang, Richard Shin-Teng; and Rosen, Robert,3,464,152.
Chang, Robert W. H., to Minnesota Mining and Manufacturing Company. Dental restorative material. 3,452,437, 7-1-69, Cl. 32-15.
Chang, Wen-Hsuan, to PPG Industries Inc.1,2,3-Trihalo-3-substituted-6,9-dioxa-1-spiro [4.4] nonenes and method of preparation. 3,427,325, 2-11-69, Cl. 260-340.9
Chang, Wen-Hsuan, to PPG Industries Inc.1,2,3,4-Tetrahalo-6,9-dioxa-1,3-spiro[4-4] nonadienes and method of preparation. 3,427,327, 2-11-69, Cl. 260-340.9
Chang, Wen-Hsuan, to PPG Industries, Inc.1,2,3,4,5,6,7,8-Octahalo-3,7-tricyclo [4.3.0.$1^{2,5}$] decadiene-9,10- dione diketals. 3,429,898, 2-25-69, Cl. 260-340.9
Chang, Wen-Hsuan, to PPG Industries, Inc.Compounds containing the 2,5-dioxabicyclo[4.3.0] nonane ring structure and methods of preparation. 3,436,404, 4-1-69, Cl. 260-340.3
Chang, Wen-Hsuan, to PPG Industries, Inc.6,9 Dioxa-1-spiro [4.4] nonene in the killing of insects. 3,446,898, 5-27-69, Cl. 424-278.
Chang, Wen-Hsuan, to PPG Industries, Inc.Novel 8-oxatricyclo [2.2.1.$2^{3,5}$] nonane and method of preparation. 3,455,955, 7-15-69, Cl. 260-340.9
Chang, Wen-Hsuan; and Dowbenko, Rostyslaw, to PPG Industries, Inc. Vapor-liquid separation method for removing excess amine from electrodeposition bath. 3,448,017, 6-3-69, Cl. 203-92.
Chang, William J. H., to Yoder Company, The. Tube mill. 3,472,053, 10-14-69, Cl. 72-178.
Chang, Winston H., to General Electric Company. Tungsten-base alloys. 3,434,829, 3-25-69, Cl. 75-176.
Chang, Winston H., to General Electric Company. Molybdenum-base alloy. 3,447,921, 6-3-69, Cl. 75-176.
Chang, Winston H., to General Electric Company. Wrought chromium base alloy. 3,458,366, 7-29-69, Cl. 148-32.
Chang,Yi-Chung; and Colijn, Hendrik, to United States Steel Corporation. Apparatus for controlling flow of liquid from a container. 3,433,472, 3-18-69, Cl. 266-38.
Chang, Yu Ghyl, to Westinghouse Electric Corporation. Integrated complementary transistor structure with equivalent performance characteristics. 3,423,653, 1-21-69, Cl. 317-235.

Chang, Yun Ger: *See*—
Bailey, Philip S.; and Chang, Yun Ger,3,427,341.
Chang, Yun G., to Reichhold Chemicals, Inc. Organic peroxides obtained by reaction of hydroperoxides with hydroxy-acetone and process. 3,480,648, 11-25-69, Cl. 260-340.6
Chang, Yun G.; and Bailey, Philip S., to Reichhold Chemicals, Inc.Dimeric peroxide of η-butyly levulinate and process of making the same. 3,479,372, 11-18-69, Cl. 260-340.6
Changani, Pushpkumar Dewanmal: *See*—
Volans, Peter; and Changani, Pushpkumar Dewanmal,3,486,674.
Chanlund, Carl Wilmer, to Pre-Cast Concrete Products, Limited. Concrete pipe making machine with novel packing head rotatably mounted on core follower and mold indexing mechanism. 3,453,706, 7-8-69, Cl. 25-36.
Channell, William H. Pedestal and underground terminals for buried cable systems. 3,435,124, 3-25-69, Cl. 174-38.
Channell, William H. Cable splice enclosure. 3,449,507, 6-10-69, Cl. 174-93.
Channell, William H. Cable splice sleeve. 3,458,649, 7-29-69, Cl. 174-93.
Chanowitz, Harry, to Clare, C. P., & Company. Apparatus for making pressurized reed switches. 3,421,874, 1-14-69, Cl. 65-155.
Chant, Leonard H., to General Motors Corporation. Front end loader having adjustable height control. 3,445,020, 5-20-69, Cl. 214-768.
Chantiers Navals de la Ciotat: *See*—
Filippi, Jean-Paul; and Zucca, Marc Edouard, 3,474,620.
Rodrigues, Edouard Georges Daniel, 3,472,414.
Chantry, John Alfred: *See*—
Harvey, Richard Alfred; Gradon, Keith; and Chantry, John Alfred,3,483,701.
Chao, Stanley K.; and Kearns, James E., to Sylvania Electric Products, Inc. Flight simulator. 3,451,144, 6-24-69, Cl. 35-10.2
Chao, Tai S.; and Eickemeyer, Daniel B., to Sinclair Research, Inc. Ester base lubricant compositions containing an aromatic amine and an organic thiophosphite or thiophosphonate. 3,446,738, 5-27-69, Cl. 252-46.7
Chao, Tai S.; Kjonaas, Manley; and Hoffman, William D., to Sinclair Research, Inc. Liquid esters of neoalkyl polyols and neoalkyl fatty acids. 3,441,600, 4-29-69, Cl. 260-488.
Chao, Tai S.; Matson, Howard J.; and Knonaas, Manley, to Sinclair Research, Inc. Ester base lubricating oil containing a stabilizing mixture of alkali metal organic compound and an aromatic amine. 3,436,348, 4-1-69, Cl. 252-33.6
Chao, Wu Wai, to Sperry Rand Corporation. Oral cleansing and gum massaging means. 3,480,008, 11-25-69, Cl. 128-66.
Chapel, Annette M., to Windsor Nuclear, Inc. Disposable surgical holder and counter. 3,481,462, 12-2-69, Cl. 206-63.2
Chapin, Earl C., to Monsanto Company. Coating compositions comprising the reaction product of a drying or semidrying oil with vinyl benzyl alcohol. 3,434,986, 3-25-69, Cl. 260-21.
Chapin, Earl C.: *See*—
Smith, Wayne E.; Mantell, Gerald J.; and Chapin, Earl C.,3,449,277.
Chapin, Judson K., Jr.; and Robinson, David W., to Grace, W. R., & Co. Method of thermally expanding vermiculite in a hot liquid and product prepared by said process. 3,459,531, 8-5-69, Cl. 71-62.
Chapin, Keith K.; and Alen, Paul R., to United Medical Laboratories, Inc. Differential slide maker. 3,470,847, 10-7-69, Cl. 118-100.
Chapin, Richard D.; and Chapin, Robert E. Tube positioner with flow regulating means. 3,482,785, 12-9-69, Cl. 239-542.
Chapin, Robert E.: *See*—
Chapin, Richard D.; and Chapin, Robert E.,3,482,785.
Chapiro, Adolphe; and Jendrychowska-Bonamour, Anna-Maria, to Centre National de la Recherche Scientifique, Ministere de l'Education Nationale, Republique Francaise. Grafting of acrylonitrile and styrene onto poly- vinyl chloride using high energy radiation. 3,433,724, 3-18-69, Cl. 204-159.17
Chaplais, Henri; Pillon, Lucien; Carre, Georges P.; Rips, Lucien; and Gambette, Rene, to Societe Anonyme France-Ecrans. Motion picture projector with oppositely positioned light sources. 3,423,152, 1-21-69, Cl. 352-115.
Chaplenko, George, to Spex Industries, Inc. Reciprocal motion control apparatus. 3,454,957, 7-8-69, Cl. 318-122.
Chaplin, Hubert O.; McQueen, Roy D.; and Lee, Kenneth, to United Shoe Machinery Corporation. Methods of conditioning shoe parts. 3,423,779, 1-28-69, Cl. 12-146.
Chapman,Arthur S., to Hughes Aircraft Company. Optical scanning system. 3,420,594, 1-7-69, Cl. 350-23.
Chapman, Augustus H.: *See*—
Blunschi, Willard S., Sr.; and Chapman, Augustus H.,3,424,411.
Chapman, Charles C., to Phillips Petroleum Company. Alkylation. 3,431,079, 3-4-69, Cl. 23-260.
Chapman, Charles C., to Phillips Petroleum Company. HF alkylation acid rerun system. 3,478,125, 11-11-69, Cl. 260-683.48
Chapman, Clifford P.: *See*—
Autry, Wallace M.; and Chapman, Clifford P.,3,432,297.
Chapman, Edwin Albert; Bartlett, Ronald Leonard; and Phelps, Brian, to Murex Welding Processes Limited. Arc welding electrodes. 3,466,417, 9-9-69, Cl. 219-74.
Chapman, Everett. Hydraulic press. 3,450,035, 6-17-69, Cl. 100-214.
Chapman, Everett. Spark gap light source for impact photoelasticity. 3,475,646, 10-28-69, Cl. 315-59.
Chapman, Frank M.; and Chapman, Harry S., to Fluorodynamics, Inc. Method for covering large rolls and the like with films. 3,426,118, 2-4-69, Cl. 264-230.
Chapman, Frank M.; and Chapman, Harry S., to Fluorodynamics, Inc. Covering of rolls with fluorinated ethylene polymers and the like. 3,426,119, 2-4-69, Cl. 264-230.
Chapman, George H.: *See*—
Tilney, Ralph B.; and Chapman, George H.,3,450,158.
Chapman, Harry S.: *See*—
Chapman, Frank M.; and Chapman, Harry S.,3,426,118.
Chapman, Frank M.; and Chapman, Harry S.,3,426,119.
Chapman, Ian D.; and Elmer, Thomas H. Porous high silica glass. 3,485,687, 12-23-69, Cl. 156-4.
Chapman, James R.: *See*—
Forrer, Homer W.; and Chapman, James R.,3,478,953.
Chapman, James; and Horner, David Christopher, to Imperial Chemical Industries Limited. Manufacture of organic fluorine compounds. 3,426,009, 2-4-69, Cl. 260-653.7
Chapman, John Dickinson; Dee, Geoffrey Thomas; Janikowski, Stanislaw Maria; and Peters, Roger Hugh, to Fisons Fertilizers Limited. Process for preparing melts comprising ammonium nitrate and phosphate. 3,449,107, 6-10-69, Cl. 71-36.
Chapman, Keith James; and Cosier, James Edwin Henry, to Postmaster General, Her Majesty's. Closure arrangements for apertures. 3,456,838, 7-22-69, Cl. 220-46.
Chapman, Richard D., to Monsanto Company. Process for destroying melt crystalline order in fiber-forming polymers. 3,475,527, 10-28-69, Cl. 264-176.
Chapman, Richard M.; and Yore, Donald M., to Bell, F. W., Inc. Magnetic reaction testing apparatus and method of testing utilizing semiconductor means for magnetic field sensing of an eddy-current-reaction magnetic field. 3,450,986, 6-17-69, Cl. 324-40.
Chapman, Robert E.: *See*—
Campi, Anthony V.; Chapman, Robert E.; and Gray, Bruce H.,3,451,044.
Chapman, Robert E., to Runnion, Ernest E. Positioning control for movable cutter head. 3,451,312, 6-24-69, Cl. 91-42.
Chapman, Robert E., to Runnion, Ernest E. Multi-position electric switch. 3,458,840, 7-29-69, Cl. 335-207.
Mitten, Leonard A.; and Chapman, Robert E.,3,442,310.
Schwartz, Natalie Pels; Voller, Norman L.; Hamman, Denver C.; and Chapman, Robert E.,3,465,926.
Chapman, Roger S., Jr.; and Pilletere, Philip, Jr. Platform attachment for cranes. 3,481,488, 12-2-69, Cl. 212-1.
Chapman, Ronald H.: *See*—
Adlhoch, Richard H.; Chapman, Ronald H.; and Ogasawara, Roy T.,3,458,664.
Chapman, Thomas Grandin: *See*—
Mortley, Harold Redvers; Chapman, Thomas Grandin; Goodspeed, Morley James; and Savage, John Vivian,3,467,305.
Chapman, Thomas Henry, to Gunson's Sortex Limited. Automatic gain control system for a photomultiplier tube. 3,439,172, 4-15-69, Cl. 250-207.
Chapman, Victor A., to Abelson Motors Limited. Stillages or like load-carrying appliances and vehicles for transporting same. 3,430,793, 3-4-69, Cl. 214-515.
Chapman, Welding G.; and Carlson, Rollin N., to Phillips Petroleum Company. Solvent purification and recovery by stripping and distillation. 3,462,347, 8-19-69, Cl. 203-6.
Chapman, William L., to Continental Oil Company. Compressed air, pressure-sensing actuator. 3,435,797, 4-1-69, Cl. 114-235.
Chappel, Raymond M.; Krishnan, Kamala S.; and Van Hise, Charles W., to American Standard, Inc. High temperature bonding to germanium. 3,465,421, 9-9-69, Cl. 29-494.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams reinforced with glass or asbestos fibers and process of making same. 3,474,048, 10-21-69, Cl. 260-2.5
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams reinforced with polyolefin fibers formed during the foaming process. 3,474,049, 10-21-69, Cl. 260-2.5
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams reinforced with polyamide, polyester and polycarbonate fibers formed during the foaming process. 3,474,050, 10-21-69, Cl. 260-2.5
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams reinforced with crystalline polyolefins. 3,474,051, 10-21-69, Cl. 260-2.5
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams

reinforced with polyamides, polyesters and polycarbonates. 3,480,569, 11h25-69, Cl. 260-2.5
Chappell, Sterling Frank, III: *See*—
Olechowski, Jerome Robert; Chappell, Sterling Frank, III; and Hawkins, John J.,3,457,319.
Chappell, William O. Spring-loaded spearing gig. 3,456,376, 7-22-69, Cl. 43-6.
Chappelle, Emmett W.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,437,560.
United States of America,National Aeronautics and Space Administration, Administrator, 3,423,290.
Chapsky, Jacob, to Lockheed Aircraft Corporation, mesne. Binary code data recorder system. 3,422,441, 1-14-69, Cl. 346-74.
Chapuis, Willy; and Kuhner, Willy, to Seewar, Gustave A. Dough forming device. 3,444,827, 5-20-69, Cl. 107-9.
Chaput, Edward R., to Service Record, Inc. Card holder. 3,452,463, 7-1-69, Cl. 40-17.
Char-Lynn Company: *See*—
Peterson, Jack W., 3,425,448.
Charbonnages de France: *See*—
Froger, Claude, 3,464,269.
Geoffroy, Jacques, 3,427,008.
Monomakhoff, Alexandre, 3,449,939.
Charbonneau, Albert J., to General Electric Company. Holder for mounting removable fuse in electrical apparatus. 3,444,497, 5-13-69, Cl. 337-188.
Charbonnet, Killian L. Jumping hoop toy. 3,425,690, 2-4-69, Cl. 272-57.
Charbonnier, Roger, to Societe d'Instrumentation Schlumberger. Insulating quadripoles. 3,439,180, 4-15-69, Cl. 307-17.
Charbonnier, Roger; and Estrabaud, Stephane, to Societe d'Instrumentation Schlumberger. Analog to digital converters. 3,480,949, 11-25-69, Cl. 340-347.
Charbonnier, Roger; and Picot, Clement, to Societe d'Instrumentation Schlumberger. Ultrasonic device for measuring the thickness of objects. 3,427,868, 2-18-69, Cl. 73-67.9
Charbonnier, Roger; and Royer, Jean. Thermally stabilized electronic assembly. 3,437,789, 4-8-69, Cl. 219-209.
Chardon, Felix A. Synchronous motor rotary indicator. 3,471,785, 10-7-69, Cl. 324-140.
Chardon Metal Products Company: *See*—
Allyn, Anderson A., 3,420,280.
Charecogn Systems, Inc.: *See*—
Torrey, Bradford M., 3,453,419.
Charger Electronic Systems Inc.: *See*—
Walker, Harold R., 3,484,544.
Chari, Nallan C. S.: *See*—
Shick, Philip E.; and Chari, Nallan C. S.,3,420,626.
Charitat, Jean, Jr.: *See*—
Turtora, John; and Charitat, Jean, Jr.,3,447,376.
Charlade, Jean, to Commissariat a l'Energie Atomique. Device for transmitting electrical measurements. 3,441,897, 4-29-69, Cl. 339-30.
Charlade, Jean, to Commissariat a l'Energie Atomique. Machine for taking samples from a conduit wall. 3,469,639, 9-30-69, Cl. 175-78.
Charles, Asa Franklin, to ACF Industries, Incorporated. Hand brake arrangement for railway flat cars. 3,421,452, 1-14-69, Cl. 105-404.
Charles, Daniel; and Duchet, Michel, to CSF-Compagnie Generale de Telegraphie Sans Fil. Image-translating device. 3,461,340, 8-12-69, Cl. 315-11.
Charles, George K., to Cow & Gate Limited. Apparatus for applying pressure-sensitive labels to cylindrical articles. 3,446,690, 5-27-69, Cl. 156-446.
Charles, George K.: *See*—
Robertson, George M.; and Charles, George K.,3,468,026.
Charles, James F., to National Screw & Manufacturing Company, The. Threaded fastener with torque limiting drive portions. 3,460,428, 8-12-69, Cl. 85-61.
Charles, Ray E. Refuse compaction handling equipment. 3,478,909, 11-18-69, Cl. 214-501.
Charles, Robert: *See*—
Bouchet, Bernard; and Charles, Robert,3,463,923.
Charlesworth, Paul L.; and Haslam, Alan A., to Petrocarbon Developments Limited. Hydrogen purification with condensate wash and hydrogen addition to condensate. 3,433,027, 3-18-69, Cl. 62-23.
Charlop, Herbert, to Metco, Inc. Construction for a powder-type flame spray gun. 3,443,754, 5-13-69, Cl. 239-85.
Charlotte Chemical Laboratories, Inc.: *See*—
Derbyshire, Stephen W., 3,472,776.
Charlton, Arthur Thomas, to Magnatex Limited. Signal light lens having two portions joined with a molded joint. 3,445,842, 5-20-69, Cl. 340-383.
Charlton, Arthur T., to Magnatex Limited. Plastic windscreen wiper connector assembly. 3,453,680, 7-8-69, Cl. 15-250.
Charlton, John: *See*—
Hayden, Percy; and Charlton, John,3,459,707.
Charlton, Kyle W.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,549.
Charlton, Richard E., Jr.; and McDaniel, Rupert A., to West Point-Pepperell, Inc. Method of making a needled composite sheet. 3,476,626, 11-4-69, Cl. 156-148.
Charlton, Robert L., to Teledyne, Inc. Light sensitive center line tracking system. 3,450,882, 6-17-69, Cl. 250-202.
Charlton, Thomas: *See*—
Richer, Benjamin F.; and Charlton, Thomas,3,470,407.
Charlton, Thomas; and Crites, Jack E., to Westinghouse Electric Corporation. Connector block for anchoring leads to dynamoelectric machines. 3,457,442, 7-22-69, Cl. 310-71.
Charman, Walter M., Jr., to Oglebay Norton Company. Continuous casting apparatus and method including mold lubrication, heat transfer, and vibration. 3,467,168, 9-16-69, Cl. 164-64.
Charman, Walter M., Jr.; and Beattie, Walter R., to Oglebay Norton Company. Apparatus for lining a hot top. 3,430,682, 3-4-69, Cl. 164-159.
Charman, Walter M., Jr.; and Borden, James H., to Oglebay Norton Company. Hot top panel insert unit. 3,433,452, 3-18-69, Cl. 249-201.
Charman, Walter M., Jr.; and Jackson, John Eugene, to Oglebay Norton Company. Insulation panel and fastener assembly. 3,436,883, 4-8-69, Cl. 52-127.
Charman, Walter M., Jr.; and Middaugh, George J., Jr., to Olglebay Norton Company. Method of making a refractory hot top panel insert. 3,477,493, 11-11-69, Cl. 164-7.
Charman, Walter M., Jr.; and Middaugh, George J., Jr., to Oglebay Norton Company. Refractory panel unit with hinge means and frangible portions. 3,478,999, 11-18-69, Cl. 249-201.
Charman, Walter M. Jr.; and Borden, James H., to Norton, Oglebay, Company. Hot tops. 3,468,368, 9-23-69, Cl. 164-359.
Charmglow Manufacturing Co.: *See*—
Koziol, Walter, 3,439,828.
Koziol, Walter, 3,447,445.
Charms, Saul: *See*—
Emons, William M., Jr.; and Charms, Saul,3,425,946.
Charneski, Charles S.; and Elliott, Ronald E., to Egan, Frank W., & Co. Expansible mandrel. 3,430,883, 3-4-69, Cl. 242-72.1
Charneski, Mitchell D.: *See*—
Anderson, Clarence A.; and Charneski, Mitchell D.,3,467,035.
Charney, John F., to Hughey & Phillips, Inc. Fail-safe circuit. 3,457,558, 7-22-69, Cl. 340-213.
Charnier, Robert; and Muller, Francois, to Produits Chimiques Pechiney-Saint-Gobain. Vinyl chloride polymer stabilized with zinc oxide and cyanoacetamide. 3,455,874, 7-15-69, Cl. 260-45.75
Charnier, Robert; and Muller, Francois, to Produits Chimiques Pechiney-Saint-Gobain. Vinyl chloride resins stabilized with zinc oxide and an organic compound. 3,463,756, 8-26-69, Cl. 260-45.75
Charnock, Harold, to Pilkington Brothers Limited. Method of and apparatus for the manufacture of flat glass on a molten metal bath. 3,420,647, 1-7-69, Cl. 65-65.
Charon, Clarence W.: *See*—
Rammel, Gerald E.; Taylor, Everett W.; and Charon, Clarence W.,3,472,682.
Charos, Peter. Deformable fluid applicator. 3,436,161, 4-1-69, Cl. 401-147.
Charpentier, Jean F., to Goodyear Aerospace Corporation. Hypervelocity gun having a hydraulic stage for velocity conversion. 3,468,216, 9-23-69, Cl. 89-8.
Charpilloz, Arnold. Device for fixing the inner end of a timepiece hairspring and for its centering and truing in the flat. 3,429,120, 2-25-69, Cl. 58-115.
Charpilloz, David M. A. Feeling head for measuring a plurality of dimensions of a workpiece. 3,422,543, 1-21-69, Cl. 33-174.
Charransol, Pierre, to Internation Standard Electric Corporation. Fault detecting and eliminating system for electrical circuits. 3,448,392, 6-3-69, Cl. 330-2.
Charrier, Rolf: *See*—
Siefert, Roland; and Charrier, Rolf,3,435,313.
Charter Design and Manufacturing Co.: *See*—
Hausam, Leonard P., 3,459,118.
Charter, Ian G.; Miles, Sydney F.; and Bailey, Christopher E. G., to Solartron Electronic Group Limited, The. Ratio meter. 3,422,258, 1-14-69, Cl. 235-196.
Charter Wire, Inc.: *See*—
Baumgarten, Morton Z., 3,460,427.
Charters, Arlen E., to Bio-Science Laboratories. Multiple source data collection system. 3,436,732, 4-1-69, Cl. 340-172.5
Charterton, Roy: *See*—
Rowlands, Derek; and Charterton, Roy,3,467,032.
Chartrand, Fernand, to Ridge Nassau Corporation. Lever type lock. 3,476,425, 11-4-69, Cl. 292-113.
Chartrand, Victor: *See*—
Muller, Don M.; Whittle, Lavar E.; and Chartrand, Victor,3,485,093.
Charwat, Horst: *See*—
Schweig, Jacques; and Charwat, Horst,3,467,571.

Charykov, Nikolai Frolovich: *See—*
Vyaznikov, Alexandr Konstantinovich; Davydov, Alexei Ivanovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; Kohkhlov, Evgeny Ilich; and Charykov, Nikolai Frolovich,3,472,299.
Charyn, Fred P.; and Garrett, Hoke M., to Kaiser Industries Corporation. Expandable chute device. 3,428,156, 2-18-69, Cl. 193-22.
Chasar, Anthony R., to Triax Company, The. Laterally movable extractor mechanism. 3,432,056, 3-11-69, Cl. 214-730.
Chase, Albert J.; and Hammer, Karl E., to Bell Telephone Laboratories, Incorporated. Central armature telephone receiver. 3,439,130, 4-15-69, Cl. 179-114.
Chase Bag Company: *See—*
Daniels, Allen, 3,430,844.
Wicks, Charles S., 3,485,281.
Chase Brass and Copper Co., Inc.: *See—*
Burr, Malcolm F., 3,441,409.
Romanauskas, William A., 3,453,847.
Chase, Charles A.: *See—*
Turner, Darrell J.; Chase, Charles A.; and Gardiner, Michael C. S.,3,430,900.
Chase, Gordon G.: *See—*
Lowe, Larry L.; and Chase, Gordon G.,3,449,818.
Chase, Harry A., to Weyerhaeuser Company. Process of treating composite boards with borate chemicals and product produced thereby. 3,438,847, 4-15-69, Cl. 161-166.
Chase, Howard: *See—*
Chase, Ronald M., 3,482,045.
Chase Instrument Corporation: *See—*
Weiner, Benjamin F., 3,455,439.
Chase Products Company: *See—*
Virzi, Donald R., 3,472,928.
Chase, Richard R.; and McKee, James C., to Union Bag-Camp Paper Corporation. Preserving method for outdoor storage of wood used in paper manufacture. 3,431,061, 3-4-69, Cl. 21-60.5
Chase, Robert L.; and Radeka, Veljko, to United States of America, Atomic Energy Commission. Parametric pre-amplifier circuit for charged particle detectors. 3,480,870, 11-25-69, Cl. 330-4.9
Chase, Robert M., to Gorton Corporation, The. Apparatus for cutting a block of frozen foodstuff. 3,485,125, 12-23-69, Cl. 83-201.
Chase, Ronald M., 1/2 to Chase, Howard. Automatic telephone alarm with voice message transmitted upon line polarity reversal. 3,482,045, 12-2-69, Cl. 179-5.
Chase, W. M., Company: *See—*
Alban, Clarence F., 3,486,152.
Chase, Walter M.: *See—*
Gustafson, Wilbur E.; Chase, Walter M.; Lievens, James L.; and Campbell, James D.,3,454,949.
Chase, Wayne L.: *See—*
Muenchow, Herbert O.; Chamberlain, Harry V.; Chase, Wayne L.; and Bucki, Joseph,3,442,118.
Chase, Wilford G. Golf ball marker and holder. 3,462,862, 8-26-69, Cl. 40-1.5
Chase, William L., to Current Control Devices, Inc. Remote control lighting system. 3,458,759, 7-29-69, Cl. 315-312.
Chase-Shawmut Company, The: *See—*
Kozacka, Frederick J., 3,425,018.
Kozacka, Frederick J., 3,425,019.
Kozacka, Frederick J., 3,479,630.
Kozacka, Frederick J., 3,483,501.
Swain, Kenneth W., 3,465,275.
Chaska Chemical Company, Inc.: *See—*
Poppitz, Harold A., 3,433,417.
Chassagne, Pierre C.; and Neel, Emmanuel E., to Shell Oil Company. Automatic cloud point detector. 3,457,772, 7-29-69, Cl. 73-17.
Chasse, Colette Marie; and Hery, Jean Francois. Bedding device provided with insulating and excrement collecting accessories. 3,444,567, 5-20-69, Cl. 5-90.
Chastain, Sidney: *See—*
Ivey, Kenneth H.; and Chastain, Sidney,3,441,404.
Chatelain, Roger; and Bouis, Hugues, to Compagnie de Saint-Gobain. Apparatus and process for cutting glass. 3,474,944, 10-28-69, Cl. 225-2.
Chatelon, Andre Edouard Joseph, to International Standard Electric Corporation. Reduced time transmission system. 3,478,163, 11-11-69, Cl. 178-6.
Chatham, Newton L. Wire cable. 3,435,634, 4-1-69, Cl. 64-3.
Chatillon Societa Anonima Italiana per le Fibre Tessili Artificiali S.p.A.: *See—*
LoMonaco, Sergio; Melacini, Paolo; Borsini, Giancarlo; Magagnin, Luigi Ciligot; and Visani, Francesco, 3,476,727.
Rothert, Horst, 3,468,849.
Chatkis, Jacob, to Foster Grant Co., Inc. Foldable garment hanger. 3,441,183, 4-29-69, Cl. 223-94.
Chattanooga Medicine Company, The: *See—*
Beekman, Stewart M.; Holbert, James M.; and Schmank, Horst W., 3,444,292.
Schmank, Horst W.; Beekman, Stewart M.; and Holbert, James M., 3,444,226.
Chatten, Clarence K.; and Behr, Samuel H., to United States of America, Navy. Minimum-width continuously faired towline. 3,467,047, 9-16-69, Cl. 114-235.
Chatten, Victor H. Can package. 3,454,156, 7-8-69, Cl. 206-65.
Chauffe, Herbert J. Cane harvester. 3,448,564, 6-10-69, Cl. 56-17.
Chaumette, Paul Joseph Adrien: *See—*
Servanty, Pierre; and Chaumette, Paul Joseph Adrien,3,474,813.
Chaumont, Henri Jules, to Compagnie de Saint-Gobain. Method for the surface treatment of glass. 3,430,399, 3-4-69, Cl. 51-283.
Chaumont, Henri: *See—*
Nedelec, Maurice; and Chaumont, Henri,3,449,102.
Chaupit, Jean; and Nigra, Jacques, to Compagnie Generale d'Electricite. Arcless reversing motor control. 3,469,165, 9-23-69, Cl. 318-289.
Chauvigne, Michel: *See—*
Bossard, Paul; and Chauvigne, Michel,3,432,626.
Chauvin Arnoux et Compagnie: *See—*
Koehler, Gerard N., 3,454,909.
Chauvin, Bernard, to Westinghouse Electric Corporation. Apparatus for sealing off glass vessels. 3,434,818, 3-25-69, Cl. 65-152.
Chauvin, Bernard: *See—*
Hasell, Henry P.; and Chauvin, Bernard,3,480,771.
Chauvin, Yves: *See—*
Cuzin, Daniel; Chauvin, Yves; and Lefebvre, Gilles,3,476,731.
Chauvin, Yves; and Lefebvre, Gilles, to Institut Francais du Petrole, des Carburants et Lubrifiants. Polymerization of bi-secondary mono-olefins. 3,479,329, 11-18-69, Cl. 260-88.2
Chauvy, Daniel; Guye, Raymond; and Hubner, Kurt, to Centre Electronique Horloger S.A. Silicon planar transistor. 3,427,479, 2-11-69, Cl. 307-299.
Chave, Charles T., to Stone & Webster Engineering Corporation. Leak detecting and locating system for nuclear reactor containment vessels. 3,444,725, 5-20-69, Cl. 73-40.7
Chaveneaud, Roger; and Janoska, Georges, to Societe a Responsabilite Limitee: Societe Lamy d'Etudes et de Recherches 'Soler'. Device for controlling electrical switch elements. 3,444,340, 5-13-69, Cl. 200-38.
Chavis, Julian B. Stop motion for yarn winding machine. 3,481,550, 12-2-69, Cl. 242-37.
Chavis, Leon A., to Mallory Electric Corporation. Electronic speed control device for an engine. 3,430,615, 3-4-69, Cl. 123-102.
Chawda, Prabhulal P.; and Caldwell, John P., to Xerox Corporation. Developing apparatus. 3,448,724, 6-10-69, Cl. 118-637.
Chayes, Samuel: *See—*
Cardoso, Marc A., 3,486,747.
Chaykowski, Michael: *See—*
Chaykowski, Michael; Boettler, Gerald L.; and Chaykowski, Michael,3,443,494.
Chaykowski, Michael; Boettler, Gerald L.; and Chaykowski, Michael. Method and apparatus for applying marking strips to highways and the like. 3,443,494, 5-13-69, Cl. 94-22.
Chazelle, William H. Folding carrier for building materials. 3,476,431, 11-4-69, Cl. 294-3.5
Chazot, Jean J.: *See—*
Cambornac, Michel J.; Chazot, Jean J.; and Puechberty, Lucien P.,3,438,489.
Cheadle, George D.: *See—*
Wood, Frederick C.; Dhondt, Roland O.; and Cheadle, George D.,3,458,433.
Cheape, Dudley W., Jr.; and Eberhardt, Wayne R., to Monsanto Company. Monomer recovery process. 3,454,542, 7-8-69, Cl. 260-85.5
Cheary, Walter Graham, to Lucas, Joseph, (Industries) Limited. Methods of applying bearing members to bodies. 3,465,404, 9-9-69, Cl. 29-149.5
Cheatham, Joseph F.: *See—*
Cheatham, Robert G.; and Cheatham, Joseph F.,3,427,185.
Cheatham, Robert G.; and Cheatham, Joseph F., to United Aircraft Corporation, mesne. Composite structural material incorporating metallic filaments in a matrix, and method of manufacture. 3,427,185, 2-11-69, Cl. 117-93.1
Cheatham, Robert J.: *See—*
Fisher, Charles H.; Knoepfler, Nestor B.; Kingsbery, Emery C.; Cheatham, Robert J.; and Vix, Henry L. E.,3,483,570.
Cheatwood, Lowell K., to Metalines Incorporated. Toggle type concrete anchor construction. 3,474,589, 10-28-69, Cl. 52-698.
Cheatwood, Lowell K.: *See—*
Schmitt, Dale A.; and Cheatwood, Lowell K.,3,448,552.
Chebuhar, Charles J., to Continental Can Company, Inc. Container bodymaker. 3,463,060, 8-26-69, Cl. 93-79.
Chechak, Albert J.; and Robeson, Charles D., to Eastman Kodak Company. Carotenoid compounds. 3,432,566, 3-11-69, Cl. 260-668.
Chechak, Albert J.; and Robeson, Charles D., to Eastman Kodak Company. Carotenoid compounds. 3,446,801, 5-27-69, Cl. 260-240.
Check Data Control Corporation: *See—*
Wright, Lyle E., 3,434,414.

Check, Mathias M., to Eaton Yale & Towne, Inc. Hospital function latch. 3,428,352, 2-18-69, Cl. 292-359.
Check, Mathias M., to Eaton Yale & Towne, Inc. Adjustable head tumbler cylinder. 3,449,934, 6-17-69, Cl. 70-451.
Check, Mathias M., to Eaton Yale & Towne, Inc. Push-pull latch. 3,477,754, 11-11-69, Cl. 292-165.
Check, Mathias M. Pin tumbler side bar cylinder lock. 3,479,849, 11-25-69, Cl. 70-364.
Check, Mathias M. Door control system. 3,484,991, 12-23-69, Cl. 49-137.
Chedaker, Joseph; Hoberg, George Gilbert; and Sands, Eugene Arthur, to Burroughs Corporation. Magnetic device. 3,479,659, 11-18-69, Cl. 340-174.
Chedester, Charles J.: *See—*
Kahn, Herbert L.; and Chedester, Charles J.,3,482,115.
Chedeville, Christian; and Lions, Noel, to Rosso, Marcel Commissariat a l'Energie Atomique. Method and device for measuring the gas content of a flowing two-phase mixture. 3,486,370, 12-30-69, Cl. 73-67.6
Cheek, James H.: *See—*
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H.,3,435,591.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H.,3,458,973.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H.,3,479,797.
Cheema, Zafarullah K.: *See—*
Newallis, Peter E.; and Cheema, Zafarullah K.,3,469,966.
Cheesebrew, Arthur J. Sectional gig. 3,486,265, 12-30-69, Cl. 43-6.
Cheeseman, Philip R., to United States of America, Atomic Energy Commission. Malfunction alarm annunciator. 3,484,770, 12-16-69, Cl. 340-213.
Cheesman, Dennis George: *See—*
Ritchie, Alexander Crawford; Cheesman, Dennis George; Garside, Peter; and Waring, Juliet Mary,3,466,295.
Cheesman, Harry: *See—*
Bathellier, Louis; and Cheesman, Harry,3,431,698.
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry,3,431,697.
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry,3,442,990.
Cheesman, William D.; and Hoefs, Ralph H., to Rex Chainbelt Inc. Method for lining a threaded nut with a low friction fabric. 3,483,056, 12-9-69, Cl. 156-189.
Cheever, Wilbur D.: *See—*
Perusse, Norman J.; and Cheever, Wilbur D.,3,472,131.
Perusse, Norman J.; and Cheever, Wilbur D.,3,472,132.
Chegwidden, Raymond A.; Cohen, Howard M.; and Gilbert, William F., Jr., to Bell Telephone Laboratories, Incorporated. Manufacture of garnet ceramic. 3,479,292, 11-18-69, Cl. 252-62.57
Chell, Frederick Nunnerley: *See—*
Robinson, Frank; and Chell, Frederick Nunnerley,3,474,643.
Chelminski, Paul: *See—*
Chelminski, Stephen Victor; and Chelminski, Paul,3,471,827.
Chelminski, Roman; and Somerville, Robert L., to Singmaster & Breyer. Production of phosphoric acid and calcium sulfate. 3,472,619, 10-14-69, Cl. 23-122.
Chelminski, Stephen Victor; and Chelminski, Paul, to Bolt Associates, Inc. Hydrostatic-pressure compensating hydrophone structure. 3,471,827, 10-7-69, Cl. 340-7.
Chelmo, Leon A.; and Schuh, John E. Angle measuring device. 3,460,262, 8-12-69, Cl. 33-174.
Chelner, Herbert, to Whittaker Corporation, mesne. Compound strain gage structure. 3,434,090, 3-18-69, Cl. 338-4.
Chelner, Herbert; and Bubel, William L., to North American Rockwell Corporation. Semiconductor flowmeter. 3,424,000, 1-28-69, Cl. 73-228.
Chem Seal Corporation of America: *See—*
Allen, Simon D.; and Snider, Yash R., 3,486,966.
Chem Stress Industries, Inc.: *See—*
Rubenstein, David, 3,424,203.
Chemagro Corporation: *See—*
Aichenegg, Paul C.; Emerson, Carl D.; and Gillen, Lawrence E., 3,428,665.
Aichenegg, Paul C.; and Emerson, Carl D., 3,428,687.
Aichenegg, Paul C.; and Gillen, Lawrence Edward, 3,454,679.
Aichenegg, Paul C., 3,463,803.
Aichenegg, Paul C., 3,463,836.
Botts, Marion F.; and Regel, Erik K., 3,463,840.
Botts, Marion F.; and Regel, Erik K., 3,485,918.
Emerson, Carl D.; and Aichenegg, Paul C., 3,442,941.
Gier, Delta W.; and Pritchard, Ralph W., II, 3,428,669.
Hensel, Jack; and Gier, Delta W., 3,463,838.
Kelly, Donald H., 3,470,255.
Regel, Erik A., 3,463,839.
Regel, Erik K., 3,445,221.
Regel, Erik K.; and Botts, Marion F., 3,467,736.
Regel, Erik K.; and Botts, Marion F., 3,481,731.
Chemcell (1963) Limited: *See—*
Ahmed, Mukhtar, 3,454,512.
Chopra, Sohinder Nath; Cormier, Claude J.; and Tessier, Joseph D. L., 3,424,834.
Chopra, Sohinder Nath, 3,443,541.
Chemcell Limited-Chemcell Limitee: *See—*
Tessier, Joseph Donatien Leo, 3,455,773.
Chemcut Corporation: *See—*
Benton, Robert C., 3,467,900.
Chemech Engineering Ltd.: *See—*
Westerlund, Gothe O., 3,442,778.
Westerlund, Gothe O., 3,451,915.
Westerlund, Gothe O., 3,468,787.
Westerlund, Gothe Osar, 3,463,722.
Westerlund, Gothe Oscar, 3,475,313.
Chemengineering, Ltd.: *See—*
Eck, Fritz; and Emmerichs, Gerhard Theodor, 3,438,799.
Chemerda, John Martin; and Sletzinger, Meyer, to Merck & Co., Inc.1-*p*-Chlorobenzoyl-2-methyl-5-methoxy-3-(2'- nitroethane)-indole. 3,449,364, 6-10-69, Cl. 260-326.16
Chemerda, John Martin; and Sletzinger, Meyer, to Merck & Co., Inc. 1-p-Chlorobenzoyl-2-carboxymethyl-3- indolylacetic acids. 3,454,594, 7-8-69, Cl. 260-326.13
Chemerda, John Martin; and Sletzinger, Meyer, to Merck & Co., Inc. 1-(p-Chlorobenzoyl)-2-methyl-3- indolylcarboxylyl halides and derivatives. 3,457,275, 7-22-69, Cl. 260-326.13
Chemerda, John Martin; and Sletzinger, Meyer, to Merck & Co., Inc.1-*p*-Chlorobenzoyl-2-methyl-3-(2'-propanone)- indoles. 3,457,276, 7-22-69, Cl. 260-326.16
Chemerda, John Martin; and Sletzinger, Meyer, to Merck & Co., Inc.Substituted-1-*p*-chlorobenzoyl-2-methyl-5-methoxy- 3-indolylacetic acids. 3,467,669, 9-16-69, Cl. 260-326.12
Chemerda, John M.; Sletzinger, Meyer; and Bollinger, Frederick W., to Merck & Co., Inc. Method of inhibiting decarboxylase. 3,462,536, 8-19-69, Cl. 424-309.
Chemetals Corporation: *See—*
Long, John T., Jr., 3,424,575.
Chemetron Corporation: *See—*
Arnold, Melvin R., 3,448,058.
Bajcar, Miles S.; Madsen, Ditlev Peder; and Sondej, Vincent S., 3,482,508.
Brewer, Charles C.; Fritz, Richard C.; and Moe, James M., 3,424,808.
Chouinard, Alfred F.; and Beeler, Allan E., 3,461,865.
Crawford, Louis L.; Christensen, Thor E.; Sondej, Vincent S.; and Bajcar, Miles S., 3,461,482.
Hettlinger, Raymond C.; and Smith, Robert L., 3,431,937.
Marshall, Robert H., 3,452,504.
McMichael, Charles E.; and Singleton, William A., 3,455,700.
Minard, Everett S.; and Smith, Robert L., 3,421,555.
Pierce, Dennis G., 3,475,585.
Ratti, Gino A., Jr., 3,431,130.
Schlemmer, Alfred H., 3,455,120.
Shaw, Robert W., Jr., 3,425,718.
Smith, Robert L., 3,430,928.
Smith, Robert L., 3,447,599.
Smith, Robert L., 3,459,340.
Stepp, James D., 3,458,517.
Stracek, Robert J., 3,437,105.
Yann, Carl C., 3,481,232.
Yann, Carl C.; Paskey, John W.; and Holzknecht, John F., Jr., 3,481,233.
Chemi-Temp Corp.: *See—*
McDonald, Donald B. Robertson, 3,429,315.
Chemical and Aerospace Products, Inc.: *See—*
Arny, Edgar L., 3,469,018.
Chemical and Pharmaceutical Patent Holding Ltd.: *See—*
Corn, Murray E., 3,485,914.
Chemical Bank New York Trust Company: *See—*
Krueger, Theodore H.,3,465,629.
Chemical Cleaning & Equipment Service, Inc.: *See—*
Callahan, Joseph W., 3,447,963.
Chemical Construction Corporation: *See—*
Bocckino, Harry G.; Dillon, Thomas J.; and Fisher, John F. Villiers, 3,450,804.
Bongiorno, Salvatore J., 3,446,747.
Christensen, Axel; and Kuo, Chi Sheng, 3,433,600.
Cook, Lucien H.; and Atkin, Sydney, 3,477,842.
Daniels, George H.; and Wechselblatt, Peter M., 3,472,383.
James, George Russell, 3,455,652.
Korwin, Paul, 3,450,504.
Korwin, Paul, 3,450,507.
Korwin, Paul, 3,467,504.
Kuo, Chi S.; and Christensen, Axel, 3,475,137.
Lee, Kwo T., 3,420,633.
Lohner, Louis A.; Middleton, William B.; and Richardson, Harry L., 3,471,138.
Marten, Jerome H., 3,451,787.
Mason, Louis A., 3,439,724.
Maurer, Michael H.; and Benefield, Curt S., 3,475,120.
Mehta, Dinshaw D.; and Christensen, Axel, 3,430,451.
Newman, Daniel J.; and Klein, Louis A., 3,443,910.

Newman, Daniel J., 3,467,492.
Ohsol, Ernest O., 3,432,263.
Richardson, Harry L., 3,457,064.
Selway, Jack J., 3,456,928.
Warshaw, Abe; Negra, John S.; and Bernas, Arnold R., 3,466,159.
Wechselblatt, Peter M., 3,440,803.
Willett, Howard P., 3,468,104.

Chemical Process Corporation: *See—*
Egbert, Robert B., 3,428,423.
Egbert, Robert B.; and Gluodenis, Thomas J., 3,455,962.

Chemical Products Corporation: *See—*
De Maria, John; and Bentzinger, Harlan A., 3,463,476.

Chemical Rubber Company, The: *See—*
Schroeder, Carl J., 3,457,110.

Chemical Rubber Products, Inc.: *See—*
McCarthy, Edward W., 3,484,274.

Chemical Separations Corporation: *See—*
Ferner, Jack D.; and Higgins, Irwin R., 3,470,022.
Higgins, Irwin R., 3,468,707.

Chemicals & Phosphates Ltd.: *See—*
Greidinger, Dahlia S.; and Gershowitch-Cohen, Liuba, 3,454,613.
Mitzmager, Abraham; and Gorin, Chanuch, 3,480,143.

Chemidus Plastics Limited: *See—*
Ansette, Cyril George, 3,425,093.
Sands, David Harold; and Broome, Ronald, 3,484,900.

Chemie Gruenenthal G.m.b.H.: *See—*
Frankus, Ernst; and Flick, Kurt, 3,470,249.
Huebner, Guenther; and Maenz, Herbert, 3,484,849.

Chemie- und Filter G.m.b.H.: *See—*
Dulger, Viktor, 3,421,738.

Chemiebau Dr. A. Zieren Gmbh & Co., K.G.: *See—*
Vedrilla, Stefan, 3,466,300.

Chemilumen Corporation: *See—*
Sylvester, Kermit H.; Franz, William E.; and McGlathery, Robert M., 3,449,572.

Chemirad Corporation: *See—*
Goldstein, Albert, 3,471,359.

Chemisch-Pharmazeutische Fabrik Adolf Klinge & Co.: *See—*
Wagner, Josef; and Schlemmer, Wolfgang, 3,450,691.

Chemische Fabriek L. van der Grinten N.V.: *See—*
Blatter, Franciscus Petrus Albertus, 3,433,566.
Hectors, Adrianus Marie Petrus; Huibers, Bernardus Hubertus; and Knoester, Carel Jacobus, 3,442,652.
Hendrickx, Andreas Joseph Johannes; and Huibers, Bernardus Hubertus, 3,442,650.
Hendrickx, Andreas Joseph Johannes; and Huibers, Bernardus Hubertus, 3,442,651.
Vercoulen, Johannes Cornelis Augustinus, 3,432,236.

Chemische Fabrik Dr. R. Pfleger: *See—*
Pfleger, Robert; Bertholdt, Heinz; and Schulz, Wolfram, 3,480,626.

Chemische Fabrik Kalk G.m.b.H.: *See—*
Jenkner, Herbert, 3,455,873.
Jenkner, Herbert, 3,465,037.
Jenkner, Herbert, 3,476,839.
Jenkner, Herbert, 3,485,897.
Praetzel, Hans Eberhard; and Jenkner, Herbert, 3,468,983.
Praetzel, Hans Eberhard; Wirth, Ernst-Friedrich; and Jenkner, Herbert, 3,470,116.
Praetzel, Hans Eberhard; and Jenkner, Herbert, 3,474,067.
Praetzel, Hans Eberhard; and Jenkner, Herbert, 3,487,030.

Chemische Fabrik Pfersee G.m.b.H.: *See—*
Enders, Heinz; and Pusch, Gunter, 3,432,553.
Enders, Heinz; and Deiner, Hans, 3,456,035.
Enders, Heinz; and Diener, Hans, 3,466,178.

Chemische Fabrik von Heyden A.G.: *See—*
Dannhauser, Kurt; Wiedemann, Otto; and Leitsmann, Reinhard, 3,484,461.

Chemische Werke Albert: *See—*
Mohler, Werner; Reiser, Mario; Popendiker, Kurt; and Von Schuh, Heinz-Georg, 3,422,107.
Soder, Alfons; and Busing, Gerhard, 3,478,041.
Stieger, Gerhard; and Flasch, Josef, 3,427,267.
Zimmerman, Rolf; and Hotze, Hermann, 3,471,430.
Zimmermann, Rolf; and Dathe, Wolfgang, 3,431,308.
Zimmermann, Rolf; Busch, Wolfram Ernst; and Reiners, Fritz, 3,470,094.
Zimmermann, Rolf, 3,470,177.

Chemische Werke Huls Aktiengesellschaft: *See—*
Baxmann, Fritz; Bursian, Wolfgang; and Schumacher, Rudolf, 3,470,113.
Berg, Gerhard; Blumel, Harald; and Glathe, Manfred, 3,476,642.
Binder, Gerhard; and Nordsiek, Karl-Heinz, 3,476,721.
Birkner, Helmut; and Sturzenhofecker, Franz, 3,442,874.
Blumel, Harald, 3,436,370.
Brockhaus, Rudolf, 3,431,297.
Brockhaus, Rudolf, 3,439,029.
Brockhaus, Rudolf; and Berger, Erich, 3,459,797.
Dittmann, Walter; and Stork, Heinz, 3,420,850.
Dittmann, Walter; and Kramer, Horst, 3,436,377.
Dittmann, Walter; and Sturzenhofecker, Franz, 3,474,149.
Engel, Frederico; and Beckmann, Gunter, 3,446,786.
Feinauer, Roland; Hamann, Karl; and Jacobi, Manfred, 3,480,647.
Gorke, Klaus; Hilpert, Richard; Schleimer, Bernhard; and Dittmann, Walter, 3,442,675.
Gorke, Klaus; and Heidel, Klaus, 3,457,207.
Gude, Armin; and Haake, Willi, 3,437,627.
Henckel, Ekkehard; and Von Portatius, Hans, 3,435,077.
Kuhnen, Ludwi; List, Ferdinand; and Vangermain, Erwin, 3,449,439.
List, Ferdinand; and Alfs, Helmut, 3,467,720.
Muller, Karl Adolf; Engel, Frederico; and Gude, Armin, 3,476,711.
Nehring, Rudolf; Feinauer, Roland; and Seeliger, Wolfgang, 3,470,268.
Nordsiek, Karl-Heinz; and Brinkmann, Horst, 3,429,952.
Reich, Manfred, 3,481,999.
Rombusch, Konrad; and Seifert, Friedrich, 3,435,021.
Rombusch, Konrad; and Seifert, Friedrich, 3,438,955.
Rombusch, Konrad; and Eichers, Ursula, 3,441,552.
Rombusch, Konrad; and Eichers, Ursula, 3,441,553.
Schafer, Johannes; Berg, Gerhard; and Engel, Frederico, 3,450,797.
Schafer, Wolfgang, 3,439,055.
Schleimer, Bernahard, 3,448,160.
Schleimer, Bernhard; and Weber, Heinrich, 3,424,734.
Schleimer, Bernhard, 3,428,699.
Schleimer, Bernhard; and Dittmann, Walter, 3,455,965.
Seeliger, Wolfgang, 3,432,473.
Seeliger, Wolfgang; and Nehring, Rudolf, 3,433,756.
Seeliger, Wolfgang; and Aufderhaar, Ernst, 3,450,699.
Simmrock, Karl-Hans; and Strauss, Gunther, 3,462,417.
Strauss, Gunther, 3,428,625.
Strauss, Gunther; and Thomas, Walter, 3,431,255.
Streck, Roland; and Seeliger, Wolfgang, 3,476,730.
von Portatius, Hans, 3,432,470.
Wieschollek, Helmut; and Gumlich, Walter, 3,479,303.
Winter, Hermann; and Weber, Heinrich, 3,423,383.

Chemische Werke Witten G.m.b.H.: *See—*
Blumenfeld, Georg; and Schade, Gerhard, 3,424,726.
Huelsmann, Hans-Leo; and Renckhoff, Gustav, 3,428,668.
Huelsmann, Hans-Leo; and Renckhoff, Gustav, 3,476,785.
Huelsmann, Hans-Leo; and Renckhoff, Gustav, 3,471,549.
Renckhoff, Gustav, 3,449,404.
Schade, Gerhard; and Blaschke, Franz, 3,454,536.
Wolfes, Wolfang; Renckhoff, Gustav; and Huelsmann, Hans-Leo, 3,459,714.
Wolfes, Wolfgang; and Renckhoff, Gustav, 3,442,869.

Chemisches Werk Lowi, Inh. M. Thoma: *See—*
Thoma, Matthias, 3,422,156.

Chemithon Corporation, The: *See—*
Brooks, Richard J.; and Brooks, Burton, 3,427,342.
Deckys, Jonas E., 3,447,732.

Chemla, Claude; Cramer, Claude; and Leger, Francois, to U.S. Philips Corporation, mesne. Polyphase priority determining system. 3,462,738, 8-19-69, Cl. 340-147.

Chemla, Marius; Dirian, Gregoire; and Perie, Michele, to Commissariat a l'Energie Atomique. Method of separation of the boron isotopes. 3,447,898, 6-3-69, Cl. 23-59.

Chemokomplex Gep es Berendezes Export-Import Vallalat: *See—*
Szucs, Laszlo; Tarnadi, Csaba; and Kornyey, Tamas, 3,446,189.

Chemolimpex Magyar Vegiaru Kulkereskedelmi Vallalat: *See—*
Szava, Jeno; Sarosi, Magdolna; and Totos, Rosa, 3,463,799.

Chemotronics, Incorporated: *See—*
Geen, Henry C.; and Rice, Edwin E., 3,475,229.
Vinton, Clarence S.; and Rice, Edwin E., 3,456,047.

Chemrock Corporation: *See—*
Sharp, Walter Martin, 3,447,789.

Chemstrand Limited: *See—*
Harvey, Roland Michael; and Johnson, Christopher Richard Napier, 3,429,772.

Chemtrox Corporation: *See—*
Paull, Morris, 3,477,780.

Chemway Corporation: *See—*
Bechtold, Arthur W.; and Rizzo, Vincent J., 3,450,814.

Chemway Filters, Inc.: *See—*
Scarabello, Bruno U.; Perez, Emilio A.; Welty, Lloyd G.; and Sluter, Simon J., 3,428,054.

Chen, Catherine S. H.; Hosterman, Evalyn F.; and Stamm, Robert F., to American Cyanamid Company. Dyeable chloromethylstyrene-vinyl-grafted polypropylene fibers and process of producing same. 3,423,161, 1-21-69, Cl. 8-55.

Chen, Cheng-Lin, to Westinghouse Electric Corporation. Sealed discharge device. 3,480,823, 11-25-69, Cl. 313-317.

Chen, Di, to Honeywell, Inc. Resonant kerr effect electromagnetic wave modulators. 3,422,269, 1-14-69, Cl. 250-199.

Chen, Gordon Kowa Cheng. Semiconductor device with integral electrodes, constituting a unitary vitreous structure. 3,457,475, 7-22-69, Cl. 317-234.

Chen, Hsin Sheng, to Ingersoll-Rand Company. High energy rate actuator. 3,431,725, 3-11-69, Cl. 60-1.

Chen, Hsin Sheng, to Ingersoll-Rand Company. Energy transfer device. 3,447,398, 6-3-69, Cl. 74-752.

Chen, Lung Pao: *See—*
Seifert, Paul; and Chen, Lung Pao,3,475,132.

Chen, Nai Yuen, to Mobil Oil Corporation. Catalytic cracking of hydrocarbons. 3,420,770, 1-7-69, Cl. 208-120.

Chen, Oleg Lanfanovich: *See—*
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich,3,447,625.

Chen, Richard J.; and Gold, Nicholas, to Polaroid Corporation. Sealing means for photographic processing apparatus. 3,424,074, 1-28-69, Cl. 95-89.

Chen, Richard J.; and Gold, Nicholas, to Polaroid Corporation. Apparatus for laminating and cutting including a pair of rollers with cutting edges. 3,438,835, 4-15-69, Cl. 156-522.

Chen, Richard J.; and Gold, Nicholas,. to Polaroid Corporation. Photographic processing apparatus and method. 3,453,138, 7-1-69, Cl. 117-111.

Chen, Richard J.; and Gold, Nicholas, to Polaroid Corporation. Photographic processing apparatus. 3,460,456, 8-12-69, Cl. 95-89.

Chen, Richard J.; and Gold, Nicholas, to Polaroid Corporation. Photographic processing apparatus. 3,473,459, 10-21-69, Cl. 95-89.

Chen, Tai Seng: *See—*
Bay, Theodosios; Chen, Tai Seng; and Schwartzenberg, John W.,3,473,008.

Chen, Tsu-Fang, to Sperry Rand Corporation. Pure fluid amplifier with adjustable control elements. 3,481,354, 12-2-69, Cl: 137-81.5

Chen, Tsuan-Tong. Revolving foldable bookstand. 3,433,364, 3-18-69, Cl. 211-42.

Chen, Tung C., to Sperry Rand Corporation. Magnetic and electrostatic recording technique. 3,427,597, 2-11-69, Cl. 340-173.

Chenevey, Edward C.; and Conciatori, Anthony B., to Celanese Corporation. Process for preparing polybenzimidazoles. 3,433,772, 3-18-69, Cl. 260-78.4

Cheney, C. W., & Son Limited: *See—*
Constable, Eric F., 3,440,844.
Constable, Eric Frederick, 3,467,428.
Constable, Eric Frederick, 3,478,547.

Cheney, Donald L.: *See—*
Baxter, Bernie M.; and Cheney, Donald L.,3,430,469.

Cheney, Grant W., to Dow Chemical Company, The. Apparatus for formation of thermoplastic sheet into a cup-like container. 3,441,983, 5-6-69, Cl. 18-19.

Cheney, Grant W., to Dow Chemical Company, The. Thermoplastic sheet formation. 3,450,807, 6-17-69, Cl. 264-89.

Cheney, Grant W., to Dow Chemical Company, The. Apparatus for blowing molding bottles. 3,466,701, 9-16-69, Cl. 18-5.

Cheney, Lawrence W.; and Short, James A., to Copeland Refrigeration Corporation. Oil retention and crankcase pressure control system for refrigerant compressors. 3,473,730, 10-21-69, Cl. 230-206.

Cheney, Lee C.; and Perron, Yvon G., to Bristol-Myers Company. 6-Acylamino-penicillanic acid azides. 3,454,556, 7-8-69, Cl. 260-239.1

Cheney, Otis T., to C.C.C. Safety Bath, Inc. Power lift bathtub seat. 3,435,466, 4-1-69, Cl. 4-185.

Cheney, Ralph R. Abrasive disc holder. 3,436,875, 4-8-69, Cl. 51-376.

Cheney, William A.; and Rorie, Durwood G., Jr., to United Air Specialists, Inc. Indoor smoke removal system. 3,421,290, 1-14-69, Cl. 55-101.

Cheng, Chao-Shing, to Allied Chemical Corporation. Alkali metal-d,l-malate monohydrates. 3,435,070, 3-25-69, Cl. 260-535.

Cheng, Chao Shing, to Allied Chemical Corporation. Purification of isocyanates by reducing the hydrolyzable chlorine content. 3,458,558, 7-29-69, Cl. 260-453.

Cheng, Chao-Shing; and Boye, Frederick C., to Allied Chemical Corporation. Isomerization of cyclohexene-1,2- dicarboxylic anhydrides. 3,487,092, 12-30-69, Cl. 260-346.3

Cheng, Jen-Pu; Hampton, John L.; and Wirtel, Arthur F., to Petrolite Corporation. Composition and method for inhibiting the formation of in and removing from oil wells and pipelines deposits of paraffin and paraffin-like deposits. 3,481,870, 12-2-69, Cl. 252-8.3

Cheng, Joseph Chin Jung; and McKinley, William Earl, to Caterpillar Tractor Company, mesne. Friction welding of dissimilar materials. 3,452,421, 7-1-69, Cl. 29-470.3

Cheng, Wing G., to Meyer Manufacturing Company Limited. Lantern. 3,471,849, 10-7-69, Cl. 340-321.

Chennell, Alwyn C. S. Fountain type fluid applicator. 3,485,563, 12-23-69, Cl. 401-183.

Chenneour, Raymond: *See—*
Savage, Jack Palmer; and Chenneour, Raymond,3,425,850.

Chenot, Charles F., to Sylvania Electric Products Inc. Europium activated strontium fluoroborate phosphor. 3,431,215, 3-4-69, Cl. 252-301.4

Chenot, Charles F., to Sylvania Electric Products Inc. Europium activated strontium haloborate phosphor. 3,431,216, 3-4-69, Cl. 252-301.4

Chenot, Charles F., to Sylvania Electric Products, Inc. Europium activated barium and strontium haloaluminate phosphors. 3,448,056, 6-3-69, Cl. 252-301.4

Chenoweth, David V., to Baker Oil Tools, Inc. Subsurface well intermitter. 3,433,174, 3-18-69, Cl. 103-232.

Chenoweth, David V., to Baker Oil Tools, Inc. Pressure control valve. 3,452,776, 7-1-69, Cl. 137-454.6

Chenoweth, David V., to Baker Oil Tools, Inc. Injection flow control apparatus for wells. 3,455,382, 7-15-69, Cl. 166-147.

Chenoweth, David V., to Baker Oil Tools, Inc. Constant mass flow apparatus. 3,456,728, 7-22-69, Cl. 166-224.

Chenoweth, David V., to Baker Oil Tools, Inc. Apparatus for controlling and method of testing well fluid production rate. 3,472,070, 10-14-69, Cl. 73-155.

Chenoweth, David V., to Baker Oil Tools, Inc. Well flow control apparatus. 3,474,859, 10-28-69, Cl. 166-147.

Chenoweth, Harry H.; and Ingman, Gordon G., to Hill, Ingman, Chase & Co., mesne. Floating breakwaters. 3,426,537, 2-11-69, Cl. 61-5.

Chepos, Zavody chemickeho a potravinarskeho strojirenstvi oborovy podnik: *See—*
Braun, Vlastimil, 3,427,007.
Braun, Vlastimil; and Vitek, Oto, 3,445,095.
Harvanek, Adolf; and Chalupnik, Vaclav, 3,464,558.
Pech, Vaclav; Vebr, Jan; and Spura, Richard, 3,477,100.
Voronak, Jozef, 3,426,574.

Cherdron, Harald; Leugering, Hans Joachim; Fischer, Edgar; and Asmus, Klaus-Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Modified homo- and copolymers of formaldehyde or trioxane and process for their manufacture. 3,467,625, 9-16-69, Cl. 260-67.

Cherepok, Gennady Vasilievich: *See—*
Getselev, Zinovy Naumovich; Balakhontsev, Gennady Alexeevich; Cherepok, Gennady Vasilievich; Zinoviev, Vladimir Konstantinovich; Ershova, Antonida Alexeevna,; and Nonin, Mikhail Moiseevich,3,467,166.

Chereshnev, Leonid Trofimovich; and Khokhlov, Viktor Dmitrievich. Weft bobbin for looms. 3,460,587, 8-12-69, Cl. 139-289.

Cherkas, Max A.; and Martin, Ellwood T., Jr., to Merck & Co., Inc. Medicated hard candy. 3,439,089, 4-15-69, Cl. 424-78.

Chermely, Leslie A., to Pullman, Incorporated. Lifting arrangement for a furnace fume elbow and the like. 3,428,301, 2-18-69, Cl. 263-46.

Chernack, Milton P.; and Torongo, Albert H., Jr., to Scurlock, Inc., mesne. Plastic button. 3,448,495, 6-10-69, Cl. 24-96.

Chernak, John A., to Tomlinson Industries, Inc. Resilient seat cup with fins. 3,426,798, 2-11-69, Cl. 137-625.33

Chernak, John A.; and Giese, Elroy J., to Tomlinson Industries, Inc. Valve. 3,459,345, 8-5-69, Cl. 222-505.

Cherne Industrial, Inc.: *See—*
Cherne, Lloyd G., 3,453,869.

Cherne, Lloyd G., to Cherne Industrial, Inc. Mechanism for pressure testing installed sewer pipe for leaks. 3,453,869, 7-8-69, Cl. 73-40.5

Chernetsky, Evgeny Mikhailovich: *See—*
Trusov, Viktor Matveevich; Fedorova, Anna Pavlonvna; and Chernetsky, Evgeny Mikhailovich,3,482,084.

Cherney, Seymour; Klein, Martin G.; and Eisenberg, Morris, to Electrochimica Corporation. Rechargeable alkaline cell. 3,438,812, 4-15-69, Cl. 136-6.

Cherniavskyj, Jaroslav, to Bell & Howell Company. Film reel end fastener. 3,464,643, 9-2-69, Cl. 242-74.

Chernick, Mary W. Hair washing tray for bed patients. 3,465,370, 9-9-69, Cl. 4-159.

Chernoch, Joseph P., to General Electric Company. Disk laser having pumping means in direct optical communication with the disk end faces. 3,423,696, 1-21-69, Cl. 331-94.5

Chernoch, Joseph P., to General Electric Company. Disk laser having pumping means in indirect optical communication with the disk end faces. 3,423,697, 1-21-69, Cl. 331-94.5

Chernoch, Joseph P., to General Electric Company. Laser device. 3,466,569, 9-9-69, Cl. 331-94.5

Chernoch, Joseph P., to General Electric Company. Laser oscillator with single transverse mode coutput. 3,482,186, 12-2-69, Cl. 331-94.5

Chernoch, Joseph P.; and Koenig, Harold R., to General Electric Company. Disk laser having pumping means in indirect optical communicaion with the disk end faces. 3,423,691, 1-21-69, Cl. 331-94.5

Chernoch, Joseph P.; and Koenig, Harold R., to General Electric Company. Disk laser having pumping means in direct optical combination with the disk end faces. 3,423,693, 1-21-69, Cl. 331-94.5
Chernov, Harvey: *See—*
de Stevens, George; Blatter, Herbert Morton; and Chernov, Harvey,3,449,498.
Cherny, Ilya Rafailovich: *See—*
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.
Cheroff, George; and Hochberg, Frederick, to International Business Machines Corporation. method for fabricating insulated-gate field effect transistors having controlled operating characteristics. 3,445,924, 5-27-69, Cl. 29-571.
Cherrie, James M.: *See—*
Updike, Stanley H.; Cherrie, James M.; and Michaels, William A.,3,421,734.
Cherrin, Abe: *See—*
Cherrin, Phil, 3,432,951.
Cherrin, Archie: *See—*
Cherrin, Phil, 3,432,951.
Cherrin, Lem: *See—*
Cherrin, Phil, 3,432,951.
Cherrin, Phil, 1/5 each to Cherrin, Abe Cherrin, Lem Cherrin, Archie, and Cherrin, Sam, estate of. Compartmented container. 3,432,951, 3-18-69, Cl. 40-107.
Cherrin, Sam: *See—*
Cherrin, Phil, 3,432,951.
Cherry Electrical Products Corporation: *See—*
Cherry, Walter L.; Long, Eric L.; and Olson, Harry W., Sr., 3,423,705.
Cherry, Walter L.; and Castle, Raymond G., 3,465,113.
Cherry, Walter L.; and Main, Robert, 3,480,752.
Gillilan, Edward, 3,449,700.
Long, Eric L., 3,449,538.
Long, Eric L., 3,485,975.
Main, Robert, 3,436,699.
Cherry, Nancy Rey; and Shackelford, Judith Ann. Simulated animated toy flower. 3,471,964, 10-14-69, Cl. 46-116.
Cherry, Nancy Rey; and Shackelford, Judith Ann. Inflatable footwear form. 3,483,580, 12-16-69, Cl. 12-114.4
Cherry, Nancy R.; and Shackelford, Judith Ann. Inflatable mannequin. 3,472,434, 10-14-69, Cl. 223-67.
Cherry, Walter L.; and Castle, Raymond G., to Cherry Electrical Products Corporation. Read-out slide switch. 3,465,113, 9-2-69, Cl. 200-167.
Cherry, Walter L.; Long, Eric L.; and Olson, Harry W., Sr., to Cherry Electrical Products Corporation. Snap-action magnetic switch. 3,423,705, 1-21-69, Cl. 335-207.
Cherry, Walter L.; and Main, Robert, to Cherry Electrical Products Corporation. Switch actuator. 3,480,752, 11-25-69, Cl. 200-172.
Cherry-Burrell Corporation: *See—*
Anderson, Paul L., 3,462,912.
Cherup, Nicholas. Walking device. 3,422,830, 1-21-69, Cl. 135-45.
Cherup, Nicholas. Seat belt construction. 3,424,495, 1-28-69, Cl. 297-386.
Chervinsky, Anatoly Alexeevich: *See—*
Telyatnikov, Garry Vladimirovich; Khodorov, Evgeny Iosifovich; Evtjutov, Anatoly Akindinovich; Skopa, Denis Denisovivh; Chervinsky, Anatoly Alexeevich; Shilov, Alexandr Vladimirovich; and Kazantseva, Nina Mikhailovna,3,444,628.
Chervitz, Melvin: *See—*
German, Israel Robert; and Chervitz, Melvin,3,463,505.
Chesapeake Corporation of Virginia, The: *See—*
Vranian, Henry, 3,455,538.
Chesapeake Instrument Corporation: *See—*
Lemon, Stanley G.; Eiseman, William F.; and Donoho, Charles M., 3,431,778.
Chesarek, Donald J.; and Reynolds, Zack D., to International Business Machines Corporation. Display system. 3,476,973, 11-4-69, Cl. 315-18.
Chesebrough-Pond's Inc.:*See—*
Fisher, Robert, 3,478,923.
Cheshire Incorporated: *See—*
Kirk, Harry V.; and Dufour, Robert, 3,458,383.
McGuire, John V., 3,459,300.
Cheshire Manufacturing Co., Inc.: *See—*
Whitright, Joseph W. E., 3,482,203.
Cheslak, Leonard W.; Appelbaum, Paul; and Hanson, Raymond H., to Pic-A-Pac Vending Corporation. Vending machine with removable supply container. 3,486,658, 12-30-69, Cl. 221-197.
Chesley, Frank G., to Central Research Laboratories, Inc. Vacuum manipulator. 3,426,920, 2-11-69, Cl. 214-1.
Chesley Industries, Inc.: *See—*
Chesley, Robert G., 3,435,958.
Chesley, Robert G., to Chesley Industries, Inc. Shelf structure. 3,435,958, 4-1-69, Cl. 211-133.
Cheslock, Edward P.: *See—*
Cruger, Robert W.; Cheslock, Edward P.; Moore, Wiley I.; and Murray, James J.,3,466,598.
Cheslock, Edward P., to Bliss, E. W., Company. Support assembly. 3,462,110, 8-19-69, Cl. 248-221.
Chesluk, John T.: *See—*
Goodchild, William C., Jr.; and Chesluk, John T.,3,444,313.
Chesmond, Colin J., to Elliott Brothers (London) Limited. Approach and landing signalling systems for aircraft. 3,474,407, 10-21-69, Cl. 340-27.
Chesner, Ramon J.; and Prestridge, James C., to Allis-Chalmers Manufacturing Company. Fuel cell module with shutter assembly. 3,441,444, 4-29-69, Cl. 136-86.
Chesnot, Bernard F. G., to Societe anonyme: les Condensateurs Sic-Safco. Electrode for electrolytic condenser and process for producing the same. 3,427,195, 2-11-69, Cl. 117-200.
Chesnul, Jerome J.; and Waxman, Ronald A. Electronic security system. 3,449,738, 6-10-69, Cl. 340-274.
Chesnut, Dwayne A.: *See—*
Prescott, Basil O.; Wise, Harold L.; and Chesnut, Dwayne A.,3,451,780.
Chesnut, Merrill Gaines, to United Aircraft Corporation, mesne. Heart pump actuator. 3,428,042, 2-18-69, Cl. 128-1.
Chesnut, Merrill Gaines; and Callaghan, Phillip B., to United Aircraft Corporation. Heart pump augmentation system. 3,426,743, 2-11-69, Cl. 128-1.
Chesnut, Merrill G.; and Ball, Richard H., to United Aircraft Corporation, mesne. Heart pump system. 3,421,497, 1-14-69, Cl. 128-1.
Chesnut, William R.; and Smuts, I. Robert, to Bobst Champlain, Inc. Butt splicer for running web. 3,467,334, 9-16-69, Cl. 242-58.3
Chess, Frank G., to Nashua Corporation. Label applicator. 3,433,697, 3-18-69, Cl. 156-489.
Chesser, John F., to Phillips Petroleum Company. Process of cooling a blown article. 3,450,805, 6-17-69, Cl. 264-28.
Chessin, Hyman; Seyb, Edgar J., Jr.; and Smith, Philip J., Jr., to M & T Chemicals Inc. Chromium plating process. 3,464,899, 9-2-69, Cl. 204-29.
Chessin, Hyman: *See—*
Seyb, Edgar J., Jr.; Chessin, Hyman; and Aoun, Fred,3,475,294.
Chester, Carroll W. Side view mirror. 3,438,281, 4-15-69, Cl. 74-501.
Chester, Gifford W. Rotary combustion engine. 3,463,127, 8-26-69, Cl. 123-8.
Chestnut, Benjamin F.: *See—*
Murray, Stephen F.; and Chestnut, Benjamin F.,3,436,498.
Chestochowski, Benjamin A.; Conklin, Edward J.; and Ellison, Cecil A., to Procter & Gamble Company, The. Emulsion composition and process for use in automatic car washes. 3,440,063, 4-22-69, Cl. 106-8.
Chestosky, Robert, 1/3 to Fabick Machinery Company. Hydraulic pump and compressor. 3,437,049, 4-8-69, Cl. 103-127.
Chetter, John; and Jones, Cecil Henry, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel element assemblies. 3,442,763, 5-6-69, Cl. 176-78.
Chevalaz, Roger A., to Thiokol Chemical Corporation. Continuous throttling, slot injection, vortex rocket injector. 3,462,950, 8-26-69, Cl. 60-39.74
Chevalley, Jean-Louis, to Brocher, Eric. Magneto-hydrodynamic generators. 3,432,692, 3-11-69, Cl. 310-11.
Chevallier, Jacques; and Havard, Jean, to Commissariat a l'Energie Atomique. Pressurizer. 3,448,797, 6-10-69, Cl. 165-107.
Chevaux, Jean, to S.A. Fiblex. Blind and means for controlling the rocking or tipping of the slats thereof. 3,473,597, 10-21-69, Cl. 160-172.
Chevrier, Francois X., to Hi-Tek Corporation. Parachute ripcord. 3,462,101, 8-19-69, Cl. 244-148.
Chevron Research Company: *See—*
Adams, Robert T.; Levine, Irving E.; and Sweeney, William A., 3,433,846.
Allphin,Nylen L., Jr., 3,424,679.
Anderson, Donald J., 3,427,246.
Anderson, Donald J., 3,445,531.
Anderson, Donald J., 3,449,440.
Anderson, Donald J., 3,459,664.
Anderson, Robert Griffin; and Sharman, Samuel H., 3,423,474.
Antoniades, Emilios P., 3,471,551.
Bacskai, Robert, 3,450,560.
Bagskai, Robert, 3,483,274.
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O., 3,434,044.
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O., 3,462,674.
Barry, Lewis Arthur; and Arveson, Elmer J., 3,425,819.
Barusch, Maurice; and Kautsky, George J., 3,468,640.
Benoit, George J., Jr., 3,438,899.
Blevins, Theodore R.; and Webber, William T., 3,483,924.
Bolt, Robert O.; and West, William W., 3,455,865.
Borgfeldt, Merton J., 3,423,221.
Bradshaw, Jerald S., 3,472,749.

Bray, Ben G.; and Kozlowski, Robert H., 3,420,768.
Buss, Waldeen C., 3,487,010.
Castagna, Eugene G., 3,477,961.
Davis, Vincent C., 3,457,771.
Davis, Vincent C., 3,486,363.
de Vries, Louis, 3,476,716.
Dreher, John L., 3,432,432.
Egan, Clark J.; and White, Robert J., 3,486,993.
Egan, Clark J.; and White, Robert J., 3,487,005.
Ellis, William H.; and Carlston, Earl F., 3,475,360.
Fenyes, Joseph G. E.; and Kohn, Gustave K., 3,429,931.
Ferm, Richard L.; and Boynton, Russell F., 3,445,258.
Fox, Richard C., 3,431,062.
Fox, Richard C., 3,431,063.
Fox, Richard C., 3,431,064.
Goldstein, Alan A., 3,434,856.
Goodwine, James K., Jr., 3,426,738.
Hampton, John W., 3,476,684.
Haritatos, Nicholas J.; and Harvey, Phillip D., 3,463,611.
Hess, Patrick H.; and Millhone, Ralph S., 3,478,824.
Hinds, Robert J.; and Premo, Paul M., 3,479,253.
Honnen, Lewis R.; and Anderson, Robert Gordon, 3,438,757.
Hotten, Bruce W., 3,427,245.
Hutchison, Stanley O.; Anderson, Glen W.; and McKinnell, John C., 3,463,231.
Hutchison, Stanley O.; Anderson, Glen W.; and Mc Kinnell, John C., 3,486,560.
Huval, Malcolm, 3,471,401.
Jacobson, Robert L.; and Tolberg, Ronald S., 3,425,934.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell, 3,434,960.
Jacobson, Robert L., 3,436,340.
Jacobson, Robert L.; and Spurlock, Burwell, 3,449,237.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell, 3,487,009.
Jaffe, Joseph, 3,434,965.
Jennings, Harley Y., Jr.; and Schoettle, Volkmar, 3,483,737.
Jones, Thornton K., 3,431,128.
Kane, Arthur V., 3,425,429.
Kautsky, George J.; and Ballinger, Peter R., 3,443,918.
Kautsky, George J., 3,444,082.
Kautsky, George J., 3,458,453.
Kemp, Jacob D.; Langlois, Gordon E.; and Olson, Lloyd J., 3,434,963.
Kinsman, Lester V., 3,467,196.
Kohn, Gustave K., 3,423,426.
Kohn, Gustave K., 3,444,300.
Kohn, Gustave K.; and Fenyes, Joseph G. E., 3,468,905.
Kohn, Gustave K.; and Fenyes, Joseph G. E., 3,479,413.
Kozlowski, Robert H.; and Mulaskey, Bernard F., 3,453,217.
Langlois, Gordon E.; and Olson, Lloyd J., 3,459,658.
Langlois, Gordon E.; and White, Robert J., 3,463,724.
Lapporte, Seymour J., 3,427,347.
Laurich, Stephen A., 3,467,724.
Lavigne, Joe B.; and Hughes, Mack F., 3,422,161.
Lavigne, Joe B.; and Hughes, Mack F., 3,470,097.
Lee, Herbert P. C., 3,454,631.
Lindquist, Robert H.; and Mulaskey, Bernard F., 3,425,666.
Lindquist, Robert H., 3,458,306.
Lindstrom, Eddie G., 3,438,756.
Lindstrom, Eddie G.; and Mehmedbasich, Enver, 3,450,715.
Lindstrom, Eddie G.; and Barusch, Maurice R., 3,468,639.
Liston, Thomas V., 3,424,822.
Liston, Thomas V., 3,445,387.
Lowe, Warren, 3,428,563.
Lowe, Warren, 3,434,972.
Malby, Howard S.; Recknagel, Fred M.; and Tobie, Roger S., 3,437,016.
Marquis, David M., 3,424,690.
Marquis, David M., 3,446,743.
Marquis, David M., 3,470,213.
McAuliffe, Clayton D.; Simon, Ralph; and Johnson, Carl E., Jr., 3,467,195.
McAuliffe, Clayton D., 3,472,319.
McCaskey, Bob L.; Kohn, Gustave K.; and Moore, Joseph E., 3,478,052.
Mehmedbasich, Enver, 3,458,295.
Mehmedbasich, Enver, 3,459,518.
Mehmedbasich, Enver, 3,471,458.
Mehmedbasich, Enver, 3,480,414.
Miron, Roy R. H.; Huggins, Donald G.; Rinne, John E.; and Summerfelt, Vernon E., 3,423,264.
Mulaskey, Bernard F., 3,453,204.
Mulaskey, Bernard F., 3,480,531.
Mulaskey, Bernard F., 3,487,007.
Nicolson, Kingsley M., 3,435,906.
Nielsen, Walter David, 3,444,191.
O'Neill, William G., Jr., 3,420,262.
O'Neill, William G., Jr., 3,474,820.
Oldenburg, Charles C., 3,434,966.
Oldenburg, Charles C., 3,434,967.
Olson, Robert James; Ellis, George L.; and Huval, Malcolm, 3,450,632.
Olund, Sven A., 3,436,349.
Olund, Sven A., 3,475,146.
Parker, Phillip H., Jr., 3,429,950.
Paterson, Norman J.; and Roselius, Ronald R., 3,464,915.
Paterson, Norman J., 3,472,760.
Postlewaite, William R., 3,451,699.
Preston, Raymond A.; and Carter, Crawford F., 3,472,770.
Ransley, Derek L., 3,432,542.
Ransley, Derek L., 3,453,339.
Rhodes, David R., 3,449,169.
Rudy, Charles E., Jr., 3,436,339.
Runge, Richard J., 3,479,581.
Ryason, Porter Raymond, 3,454,355.
Schmidt, Robert J.; and Santucci, Lawrence E., 3,423,224.
Scott, John W., Jr., 3,425,810.
Sherwood, John W. C.; and Sie, Swan A., 3,454,924.
Sieg, Robert P.; and Kemp, Jacob D., 3,482,952.
Simon, Ralph, 3,484,370.
Smith, Calvin S., 3,435,590.
Spurlock, Burwell, 3,438,888.
Stanton, Garth M., 3,442,809.
Stanton, Garth M., 3,445,278.
Stayner, Robert A., 3,467,556.
Steigelmann, Edward F., 3,451,852.
Stevens, Malcolm P., 3,459,708.
Stuart, Frank A.; Stewart, William T.; Lowe, Warren; and Kavanagh, Frank W., 3,428,615.
Sweeney, William Alan, 3,487,023.
Toland, William G., 3,428,671.
Triplett, William C., 3,424,241.
Triplett, William C., 3,424,242.
Triplett, William C., 3,424,253.
Walstrom, John E., 3,477,696.
Weber, Heinz P.; and Wilkes, John B., 3,449,464.
West, William W.; and Bolt, Robert O., 3,424,711.
West, William W.; and Bolt, Robert O., 3,454,520.
White, Robert J.; and Houston, Robert J., 3,435,085.
Wright, James R., 3,422,026.

Chevron Research Corporation: *See—*
Hillman, Melville E. D., 3,439,030.
Suzuki, Shigeto, 3,459,819.
Wilkes, John B., 3,433,830.

Chew, Charles R.; and Toth, Endre Leslie, to Taylor-Winfield Corporation, The. Arc welder having built-in shear for joining strip. 3,426,952, 2-11-69, Cl. 228-5.

Chew, Marian F. Automobile engine exhaust testing method and apparatus. 3,472,067, 10-14-69, Cl. 73-116.

Chew, Norman Bradford: *See—*
Evens, Robert L.; Lewis, Douglass H.; and Chew, Norman Bradford,3,436,900.

Cheyne, Donald Gordon: *See—*
Bourne, Ronald Frederick; and Cheyne, Donald Gordon,3,432,110.

Cheysson, Philippe J., to Esso Research and Engineering Company. Method and apparatus for separating water-hydro- carbon mixtures. 3,457,703, 7-29-69, Cl. 55-45.

Chezaud, Jean Claude: *See—*
Joly, Jean; and Chezaud, Jean Claude,3,438,105.

Chezem, Joe M. Safe attachment. 3,481,287, 12-2-69, Cl. 109-1.

Chezum, Rogene E. Garment drier. 3,464,604, 9-2-69, Cl. 223-69.

Chhabra, Devendra S.: *See—*
Ainslie, Norman G.; Chhabra, Devendra S.; Jepsen, Donald W.; and Mutter, Walter E.,3,474,530.

Chi, Chang W.; and Macriss, Robert A., to Institute of Gas Technology. Air conditioning device using adsorption of moisture. 3,446,031, 5-27-69, Cl. 62-271.

Chi, Henry K., to Monsanto Company. Monovinylidene aromatic hydrocarbon-unsaturated nitrile copolymers stabilized with hydrocarbons. 3,444,126, 5-13-69, Cl. 260-45.7

Chiang, Ching: *See—*
Heuser, Leon John; Chiang, Ching; and Anderson, Carl Francis,3,446,705.

Chiang, Franklin C., to Hewlett-Packard Company. Optical card reader. 3,463,906, 8-26-69, Cl. 235-61.11

Chiang, Robert, to Monsanto Company. Polymerization process and product. 3,448,092, 6-3-69, Cl. 260-79.3

Chiang, Robert; Evans, Roger A.; and Rhodes, Jerome H., to Monsanto Company. Processes for polymerization of acrylonitrile using organometallic coordination complexes as catalysts. 3,429,861, 2-25-69, Cl. 260-88.7

Chiang, Yuen-Sheng: *See—*
Ing, Samuel W., Jr.; and Chiang, Yuen-Sheng,3,472,679.

Chiao, Raymond Y.: *See—*
Townes, Charles H.; Garmire, Elsa M.; Chiao, Raymond Y.; and Stoicheff, Boris P.,3,469,107.

Chiappe, Orlando J.: *See—*
Shaff, Gerald H.; Smith, Frank R.; Haren, Ralph J.; and Chiappe, Orlando J.,3,479,725.

Chiaves, Carlo. Earth supporting structures. 3,426,541, 2-11-69, Cl. 61-39.
Chiba, Jiro; Takahashi, Ikuo; and Hasegawa, Yasuhiro, to Tokyo Seimitsu Sokki Kabushiki Kaisha. Servo valve capable of effecting quick feed operation. 3,472,281, 10-14-69, Cl. 137-625.69
Chiba, Shu: *See—*
Nagai, Torao; Aiura, Masanobu; Tanaka, Shuzo; and Chiba, Shu,3,437,777.
Chiba, Takeshi, to Fujikura Parachute Company, Ltd. Sea anchor. 3,459,151, 8-5-69, Cl. 114-209.
Chiba, Takeshi, to Fujikura Parachute Company, Ltd. Sea anchor. 3,472,195, 10-14-69, Cl. 114-209.
Chiba, Yusuke: *See—*
Hayashi, Chisayo; Chiba, Yusuke; Tanaka, Eiji; Ochi, Shigeyuki; Yanagisawa, Yuzuru; and Ayabe, Masaaki,3,469,294.
Chibaeff, Vadim G., to Lummus Company, The. Storage vessel. 3,438,532, 4-15-69, Cl. 220-1.
Chibata, Ichiro; Kakimoto, Toshio; and Kato, Joji, to Tanabe Seiyaku Co., Ltd. Process for producing L-alanine. 3,458,400, 7-29-69, Cl. 195-29.
Chibata, Ichiro: *See—*
Sugimoto, Norio; Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao,3,440,279.
Chibnik, Sheldon, to Mobil Oil Corporation. Polymers containing carboxylic groups and their preparation. 3,423,382, 1-21-69, Cl. 260-93.5
Chibnik, Sheldon; and Frangatos, Gerassimos, to Mobil Oil Corporation. Process for the preparation of benzene carboxylic acids. 3,487,108, 12-30-69, Cl. 260-524.
Chicago Bridge & Iron Company: *See—*
Camp, Thomas R., 3,468,422.
Dockendorff, Jay D.; Chirico, Anthony N.; and Sanfilippo, Bruce P., 3,477,829.
Endicott, John Seward; and Zick, Leonard Paul, Jr., 3,471,053.
McDonald, Charles A., 3,422,628.
Paccione, James C., 3,445,003.
Rainey, Carl Max, 3,444,349.
Stafford, Donald C.; Chamberlin, Robert S.; and Johnson, Paul R., 3,441,262.
Stafford, Donald Claude; and Chamberlin, Robert Simons, 3,429,128.
Vedder, Helmut, 3,439,870.
Chicago Clutch Manufacturing Co., Inc.: *See—*
Bohn, Martin C.; Brady, John F.; Spinello, John O.; and Rice, Kenneth G., 3,433,341.
Chicago Display Company: *See—*
Snyder, H. Kent, Jr., 3,479,760.
Chicago Dryer Company: *See—*
Roberts, Harold G., 3,476,492.
Chicago Fire Brick Company: *See—*
Parsons, Joseph R., 3,427,369.
Parsons, Joseph R., 3,442,670.
Chicago Lock Co.: *See—*
Kerr, William J., 3,464,294.
Chicago Machinery Laboratory, Inc.: *See—*
McCain, William B.; and Weller, Ronald W., 3,481,594.
Chicago Metallic Sash Company: *See—*
Jahn, Reinhardt H., 3,475,869.
Chicago Musical Instrument Co.: *See—*
Campbell, Donald J., 3,443,463.
Campbell, Donald J., 3,467,759.
Campbell, Donald J., 3,476,863.
Chicago Musical Instrument Company: *See—*
Lemon, Merle B., 3,440,917.
Chicago Pneumatic Tool Company: *See—*
Blattner, Ernest W.; Boettcher, Harry H.; Carter, Anthony F.; Heitmann, Arnold M.; Holt, Wainwright, Jr.; and Wilson, David G., 3,424,372.
Fischer, Howard R., 3,462,124.
Judd, Sebastian F., 3,441,151.
Judd, Sebastian F.; and Wickersheim, Frederick C., 3,446,291.
Judd, Sebastian F., 3,455,212.
McHenry, Kenneth A.; and Amtsberg, Lester A., 3,466,730.
Pantel, Wolfgang E., 3,439,754.
Schaedler, Raymond J.; and Wallace, William K., 3,428,137.
Chicago Rawhide Manufacturing Company: *See—*
McKinven, Robert, Jr., 3,482,844.
Szcupak, Peter; and Andersen, Karc, 3,477,730.
Chicago Roller Skate Company, The: *See—*
Shevelson, Joseph F., 3,437,344.
Chicago Show Printing Company: *See—*
Misauskas, Raimundas V., 3,419,988.
Chicago Specialty Manufacturing Co.: *See—*
Gore, William C.; and Shapiro, Eugene B., 3,485,451.
Chicago Stainless Equipment Corporation: *See—*
Mistarz, Robert J., 3,486,423.
Chiccarelli, Fortunato Stephen: *See—*
Steigman, Joseph; and Chiccarelli, Fortunato Stephen,3,457,256.
Chichery, Guy; and Perras, Philippe, to Rhone-Poulenc S.A. Preparation of N-substituted β-pyrrolidones. 3,448,118, 6-3-69, Cl. 260-326.5
Chichery, Guy; and Perras, Philippe, to Rhone-Poulenc S.A. Process for the preparation of piperidine. 3,481,938, 12-2-69, Cl. 260-293.2
Chichester, Willard L., to Clark Equipment Company. Pressure compensated diverter valve. 3,455,322, 7-15-69, Cl. 137-108.
Chiddix, Max Eugene, to GAF Corporation. Alkyl alkenyl arsinic acids and salts thereof. 3,432,496, 3-11-69, Cl. 260-242.
Chiddix, Max Eugene; and Leonard, Edward Oliver, to GAF Corporation. Aryl alkyl arsinic acids and salts thereof. 3,432,494, 3-11-69, Cl. 260-242.
Chiddix, Max Eugene; and Leonard, Edward Oliver, to GAF Corporation. Aryl hydroxyalkyl arsinic acids and salts thereof. 3,432,495, 3-11-69, Cl. 260-242.
Chidgey, Ronald W.; and Hills, William H., to Monsanto Company. Method and apparatus for producing a novel high bulk continuous filament low stretch yarn. 3,447,296, 6-3-69, Cl. 57-34.
Chidley, John S.; Nylund, George J.; and Dolinsky, Hyman. Shipping seal. 3,441,304, 4-29-69, Cl. 292-307.
Chidley, John S.; Nylund, George J.; and Dolinsky, Hyman. Security seal. 3,463,532, 8-26-69, Cl. 292-307.
Chieger, George, to Fruehauf Corporation. Semi-trailer door and corner post construction. 3,464,734, 9-2-69, Cl. 296-50.
Chieger, George: *See—*
Tantlinger, Keith W.; Chieger, George; and Hulverson, Adrian F.,3,434,751.
Chiel, Christian, to Voith, J. M., GmbH. Paper web transfer device utilizing suction. 3,441,476, 4-29-69, Cl. 162-306.
Chien, Sze-Foo, to Texaco Inc. Method of and apparatus for determining rheological properties of non-newtonian fluids such as drilling fluids or the like. 3,468,158, 9-23-69, Cl. 73-55.
Chiffert, Pierre; and Rols, Gilbert, to Procida. Stable alkylene-bis-dithiocarbamates. 3,449,386, 6-10-69, Cl. 260-429.
Chifu, Masao, to Teijin Limited. Temperature control apparatus for rotary heating roller. 3,463,893, 8-26-69, Cl. 219-10.61
Chihara, Kanichiro: *See—*
Ando, Ryo; Shimotsuma, Teruo; and Chihara, Kanichiro,3,477,701.
Chihara, Yuzo: *See—*
Kusama, Jun; Fujihara, Teruhisa; and Chihara, Yuzo,3,475,343.
Kusama, Jun; Fujiwara, Teruhisa; and Chihara, Yuzo,3,455,876.
Chihara, Yuzo. Vinyl acetate-crotonic acid- higher alkylcrotonate terpolymers. 3,484,420, 12-16-69, Cl. 260-80.8
Chikamasa, Hiroshi; and Aso, Kotaro, to Fuji Photo Film Co., Ltd. Method of adding and mixing. 3,476,363, 11-4-69, Cl. 259-8.
Chikamasa, Hiroshi; Hayashi, Nobuyuki; and Noguchi, Michio, to Fuji Photo Film Co., Ltd. Humidity control of photographic printing paper. 3,470,625, 10-7-69, Cl. 34-23.
Child, Edward T.: *See—*
Lafferty, William L., Jr.; Child, Edward T.; Estes, John H.; and Vachuda, George W.,3,440,301.
Messing, Donald A.; Child, Edward T.; and Peck, Reese A.,3,424,670.
Child, Edward T.; and Pezdirtz, George F., to Texaco Inc. Polymerization process. 3,459,827, 8-5-69, Cl. 260-683.15
Child Guidance Toys Inc.: *See—*
Genin, Robert, 3,457,668.
Genin, Robert, 3,483,653.
Genin, Robert I., 3,423,873.
Genin, Robert I., 3,438,145.
Genin, Robert I., 3,455,051.
Genin, Robert I., 3,479,918.
Childers, Clifford W.: *See—*
Gruver, Jerry T.; and Childers, Clifford W.,3,476,829.
Childers, Clifford W., to Phillips Petroleum Company. Reaction of peroxides with blends of polystyrene and rubbery block copolymer. 3,429,951, 2-25-69, Cl. 260-876.
Childers, Herman M.: *See—*
Saylor, William P., Jr.; and Childers, Herman M.,3,452,197.
Childers, Homer D.: *See—*
Murray, Jack T.; and Childers, Homer D.,3,433,903.
Childers, John W., Jr.: *See—*
Kuryla, William C.; and Childers, John W., Jr.,3,472,800.
Childers, Thomas W.: *See—*
Genois, Edmond R.; and Childers, Thomas W.,3,464,496.
Childers, Thomas W.; and Genois, Edmond R., to Esso Production Research Company. Servicing of wells. 3,444,927, 5-20-69, Cl. 166-0.5
Childers, Thomas W.; Genois, Edmond R.; and Brasier, Charles A., to Esso Production Research Company. Washing a well. 3,464,495, 9-2-69, Cl. 166-312.
Childree, Herman T., to General Dynamics Corporation. Torch assembly. 3,463,601, 8-26-69, Cl. 431-158.
Childress, David L.: *See—*
Button, George F.; and Childress, David L.,3,463,816.
Childress, Elmer W.: *See—*
Ledeen, Howard L.; and Childress, Elmer W.,3,435,614.

Childress, Scott J.; and Archibald, John L., to American Home Products Corporation. 1,4-Bis(2-indol-3-ylethyl)piperidines. 3,462,440, 8-19-69, Cl. 260-293.
Childress, Scott J.; and Sallay, Stephen I., to American Home Products Corporation. 3-α Phenylbenzyloxy-8-substituted nortropanes and their substituents. 3,452,029, 6-24-69, Cl. 260-292.
Childress, Scott J.; and Sallay, Stephen I., to American Home Products Corporation. Xanthene and thioxanthene-9 ureas and propionamides. 3,481,930, 12-2-69, Cl. 260-247.2
Childress, Scott J.: *See*—
Sallay, Stephen I.; and Childress, Scott J.,3,470,187.
Childs, Elbert B.; and Krulish, John A. C., to Mobil Oil Corporation. Automatic fuel filter monitor. 3,452,586, 7-1-69, Cl. 73-61.
Childs Equipment Co.: *See*—
Everett, Lynn E., 3,469,543.
Childs, George William, to Recognition Equipment Incorporated. Multidrum document handling character reader. 3,431,402, 3-4-69, Cl. 235-61.11
Childs, Robert S.; and Loyster, Earl L. Apparatus for transplanting trees. 3,471,192, 10-7-69, Cl. 294-50.7
Childs, William I., to Dexter Corporation, The. Powdered epoxy resin compositions. 3,484,398, 12-16-69, Cl. 260-18.
Childs, William V., to Phillips Petroleum Company. Process of operating a fuel cell with an aliphatic monoamide fuel. 3,420,713, 1-7-69, Cl. 136-86.
Childs, William V., to Phillips Petroleum Company. Thermally regenerable hydrogen halide fuel cell. 3,445,292, 5-20-69, Cl. 136-86.
Childs, William V., to Phillips Petroleum Company. Electrochemical production of oxygen difluoride. 3,461,049, 8-12-69, Cl. 204-59.
Childs, William V., to Phillips Petroleum Company. Production of carbonyl fluoride. 3,461,050, 8-12-69, Cl. 204-59.
Chilenskas, Albert A., to United States of America, Atomic Energy Commission. Plutonium sublimation. 3,436,193, 4-1-69, Cl. 23-326.
Chilenskas, Albert A.; and Kincinas, John E., to United States of America, Atomic Energy Commission. Bromine pentafluoride disposal. 3,469,936, 9-30-69, Cl. 23-88.
Chili, Gustaf: *See*—
Hanson, Rolf G.; and Hansen, David G., 3,456,388.
Chilla, Johannes: *See*—
Bader, Otto; Guhne, Hans-Peter; Sommerfeld, Karl; and Chilla, Johannes,3,430,436.
Chillino, Joseph: *See*—
Gabrielli, Donald P.; and Chillino, Joseph,3,447,168.
Chilman, John Alfred, to Dowty Rotol Limited. Bladed rotors. 3,459,267, 8-5-69, Cl. 170-160.32
Chilman, John Alfred: *See*—
Davies, Stuart Duncan; and Chilman, John Alfred,3,420,311.
Davies, Stuart Duncan; and Chilman, John Alfred,3,468,473.
Davies, Stuart Duncan; and Chilman, John Alfred,3,476,486.
Chilowsky, Constantin, deceased0 (by Seward, W. Saxton, executor), to Canrad Precision Industries, Inc. Cutting apparatus. 3,421,748, 1-14-69, Cl. 266-23.
Chilpan, Kurt Constantine, to Maremont Corporation. Rotating ring assembly. 3,481,131, 12-2-69, Cl. 57-124.
Chilpan, Kurt Constantine, to Maremont Corporation. Articulated traveler assembly. 3,482,388, 12-9-69, Cl. 57-125.
Chilvers, Kenneth William; and Trappe, Gordon, to Imperial Chemical Industries Limited. Polyurethane coating compositions and process of making same. 3,428,609, 2-18-69, Cl. 260-75.
Chimiotex S.A.: *See*—
Drisch, Nicolas B., 3,432,589.
Chimura, Kihachi, to Kabushiki Kaisha Inouye Shokai (Inouye & Co., Ltd.). Viscous suspension pumping means. 3,451,347, 6-24-69, Cl. 103-152.
Chin, Arthur H. T., to Fibreboard Corporation. Apparatus for heat sealing cartons. 3,462,916, 8-26-69, Cl. 53-375.
Chin, Ball, to United States of America, Army. Continuous microwave attenuator. 3,432,756, 3-11-69, Cl. 325-300.
Chin, Chu Quon. Magnetic voltage control apparatus. 3,466,531, 9-9-69, Cl. 323-86.
Chin, Henry; and Cadigan, John J., III, to United States of America, Army, mesne. High performance, wide band, VHF-UHF amplifier. 3,486,126, 12-23-69, Cl. 330-21.
Chin, Henry; and Salvato, Joseph, to United States of America, Army, mesne. Electronic shutter employing two normally non-conducting SCR's in which second SCR is self extin- guishing by RC timer and is triggered on when first SCR turns off. 3,465,173, 9-2-69, Cl. 307-293.
Chin, Leslie S. F.; and Grayson, Carl L., to Westinghouse Electric Corporation. Apparatus for combing component leads. 3,439,402, 4-22-69, Cl. 29-203.
Chin, Leslie Sut Fong: *See*—
Coleman, Louis J.; and Chin, Leslie Sut Fong,3,454,921.
Chin, Te Ning, to RCA Corporation. Magnetostrictive delay line having a flat, thin sheet of magnetostrictive material. 3,482,191, 12-2-69, Cl. 333-30.
Chin, William: *See*—
Bodenhamer, Edward R.; and Chin, William,3,473,803.
Ching, Wallace K. L.; Cottrell, James E., Jr.; Sherman, John D.; and Weinmann, Helmut T., to United States of America, Navy. Time-division multiplex with synchronization system. 3,484,555, 12-16-69, Cl. 179-15.
Chini, Paolo: *See*—
Natta, Giulio; Chini, Paolo; Mazzanti, Giorgio; and Britz, Amelia,3,448,083.
Chinlund, Thomas J., to Bell Telephone Laboratories, Incorporated. Information processing system. 3,440,618, 4-22-69, Cl. 340-172.5
Chinn, George M.; Schnatter, William P.; and Watson, Henry F., to United States of America, Navy, mesne. Grenade launcher. 3,431,820, 3-11-69, Cl. 89-161.
Chinn, Leland J., to Searle, G. D., & Co.5-[(Halo/alkoxy)phenyl]-1-[p-sulfonamido (phenyl/benzyl)]-2-pyrrolepropionic acids. 3,427,305, 2-11-69, Cl. 260-239.6
Chinn, Leland J., to Searle, G. D., & Co.Polydehydro 17α-ethynylestran-17β-ols and esters. 3,436,412, 4-1-69, Cl. 260-397.5
Chinn, Leland J., to Searle, G. D., & Co. 11,17-Dioxygenated 4-methylestra-1,3,5(10)- trienes. 3,462,466, 8-19-69, Cl. 260-397.45
Chinn, Leland J. 2-(2-Carboxyethyl)-5-phenyl-1- pyrrolebutyric acid and congeners. 3,471,513, 10-7-69, Cl. 260-326.3
Chinn, Leland J., to Searle, G. D., & Co. 5-(Halo/alkoxy)phenyl-2-pyrrolepropionamides and congeners. 3,475,451, 10-28-69, Cl. 260-326.3
Chinnock, Edwin L., to Bell Telephone Laboratories, Incorporated. Optical beam position sensor. 3,423,593, 1-21-69, Cl. 250-208.
Chinoin Gyogyszer es Vegyeszeti Termekek Byara RT: *See*—
Ecsery, Zoltan; Knoll, Jozsef; Kosa, Ildiko; Sandor, Ildiko; Somfai, Eva; and Torok, Sandor, 3,485,874.
Chiola, Vincent; Dodds, Robert E.; and Vanderpool, Clarence D., to Sylvania Electric Products, Inc. Recovery of complex tungsten and molybdenum compounds from solutions. 3,440,732, 4-29-69, Cl. 34-5.
Chiola, Vincent; and Lawrence, Jerome G., to Sylvania Electric Products, Inc. Preparation of heteropolymolybdic acids. 3,446,575, 5-27-69, Cl. 23-22.
Chiola, Vincent; and Vanderpool, Clarence D., to Sylvania Electric Products Inc. Method of preparing heteropoly compounds. 3,425,794, 2-4-69, Cl. 23-23.
Chiola, Vincent; and Vanderpool, Clarence D., to Sylvania Electric Products Inc. Preparation of heteropolytungstic and heteropolymolybdic acids. 3,428,415, 2-18-69, Cl. 23-23.
Chiola, Vincent; and Vanderpool, Clarence D., to Sylvania Electric Products, Inc. Process for producing heteropoly metal acids. 3,446,577, 5-27-69, Cl. 23-23.
Chiou, Charles; and Garcia, Joseph R., to International Business Machines Corporation. Solid state device including electrical packaging arrangement with improved electrical connections. 3,428,866, 2-18-69, Cl. 317-101.
Chiou, Charles; Smith, James F.; and Huang, Sydney S., to International Business Machines Corporation. Laser welding. 3,485,996, 12-23-69, Cl. 219-121.
Chipalkatti, Vasant B.; Desai, Ramanlal M.; Sattur, Narayan B.; and Hussain, Iftikhar, to Council of Scientific and Industrial Research. Process for treating cellulosic textile material for improving simultaneously its crease recovery and its abrasion and tear resistance properties. 3,457,024, 7-22-69, Cl. 8-115.6
Chipalkatti, Vasant Bhimrao; Desai, Ramanlal Markandrai; Sattur, Naranyan Balvantrao; and Husain, Iftikhar, to Council of Scientific and Industrial Research. Processing of textiles for imparting simultaneously improved tear resistance and abrasion resistance. 3,457,026, 7-22-69, Cl. 8-120.
Chiplis, Felix A.: *See*—
Bramley, Hal F.; Chiplis, Felix A.; Dunkle, David E.; and Taivalkoski, George W.,3,452,572.
Chipman, George P., to General Electric Company. Method of making frequency-stabilized metal-clad laminates and article. 3,466,360, 9-9-69, Cl. 264-346.
Chipman, Jack R., to Magnavox Company, The. Convergence circuit for television receivers. 3,422,303, 1-14-69, Cl. 315-13.
Chipps, Elmer T.: *See*—
White, Frank F.; Tanno, Norman J.; and Chipps, Elmer T.,3,480,159.
Chirana, Zavody zdravotnickej techniky, odborovy Podnik: *See*—
Brychta, Ondrej; Tlucko, Josef; Kolik, Ondrej; and Capla, Miroslav, 3,465,752.
Chirco, Peter R., to Huck Manufacturing Company. Clearance tool assembly. 3,475,945, 11-4-69, Cl. 72-391.
Chirgwin, Lester Daniel, Jr., to American Cyanamid Company. Method for heat setting of stretch oriented polyglycolic acid filament. 3,422,181, 1-14-69, Cl. 264-345.
Chirgwin, Lester Daniel, Jr., to American Cyanamid Company. Process for relaxing filamentary material. 3,443,009, 5-6-69, Cl. 264-342.
Chirico, Anthony N.: *See*—
Dockendorff, Jay D.; Chirico, Anthony N.; and Sanfilippo, Bruce P.,3,477,829.
Chirota, William W.; Holzwarth, Robert W.; and Shewchuck, Thomas, to Ford Motor Company. Direct electrical harness switching. 3,433,916, 3-18-69, Cl. 200-166.

Chirumbolo, Joseph F., to Bunker-Ramo Corporation, The. Electrical connector. 3,478,302, 11-11-69, Cl. 339-90.
Chirumbolo, Joseph F., to Bunker-Ramo Corporation, The. Electrical connector. 3,478,305, 11-11-69, Cl. 339-217.
Chisholm, Douglas S., to Dow Chemical Company, The. Processing of plastic. 3,424,832, 1-28-69, Cl. 264-143.
Chisholm, Douglas S., to Dow Chemical Company, The. Method for the preparation of multilayer film. 3,448,183, 6-3-69, Cl. 264-37.
Chisholm, Douglas S., to Dow Chemical Company, The. Centrifugal extrusion employing eddy currents. 3,483,281, 12-9-69, Cl. 264-25.
Chisholm, Douglas S.; and Best, John S., to Dow Chemical Company, The. Method for making long holes in foam bodies. 3,448,513, 6-10-69, Cl. 29-525.
Chisholm, Douglas S.: *See—*
Schrenk, Walter J.; and Chisholm, Douglas S.,3,485,912.
Smith, Hubert Stacey; Wright, Donald R.; and Chisholm, Douglas S.,3,458,609.
Chisholm, John J.; and Hills, George B., to Clark, David, Company, Incorporated. Variable repetitive pattern sewing machine. 3,448,706, 6-10-69, Cl. 112-2.
Chisholm, John P. Matrix navigation system. 3,434,140, 3-18-69, Cl. 343-6.
Chisholm, Kenneth Duncan Fraser: *See—*
Glazebrook, Ellis; and Chisholm, Kenneth Duncan Fraser,3,467,838.
Chisholm, Raymond S.: *See—*
Bissinger, William E.; Strain, Franklin; Stevens, Henry C.; Dial, William R.; and Chisholm, Raymond S.,3,474,072.
Chisholm-Ryder Company, Inc.: *See—*
Bogumil, Walter A., 3,455,366.
Burton, Charles G., 3,419,998.
Burton, Charles G., 3,427,794.
Holloway, Robert L., 3,480,131.
Orton, Joseph R., 3,439,482.
Orton, Joseph Roy, 3,439,478.
Chisholm-Ryder Company of Pennsylvania: *See—*
Roth, William F.; and Fissel, Thomas E., 3,451,195.
Chisnell, Thomas C.; and Winter, Robert E., to International Business Machines Corporation. Synthetic three-D display. 3,448,208, 6-3-69, Cl. 178-6.5
Chisso Corporation: *See—*
Kusama, Jun; Fujihara, Teruhisa; and Chihara, Yuzo, 3,475,343.
Chitayat, Anwar K., to OPTOmechanisms, Inc. Double axes interferometer. 3,434,787, 3-25-69, Cl. 356-106.
Chitayat, Anwar K., to OPTOmechanisms Inc. Single optical block interferometer means. 3,443,871, 5-13-69, Cl. 356-106.
Chitayat, Anwar K., to OPTOmechanisms, Inc. Comparison viewer. 3,450,480, 6-17-69, Cl. 356-163.
Chitayat, Anwar K., to OPTOmechanisms, Inc. Alignment means for photo repeat machine. 3,476,476, 11-4-69, Cl. 355-1.
Chitayat, Anwar K., to OPTOmechanisms, Inc. Thread grinding means with automatic control. 3,486,275, 12-30-69, Cl. 51-165.
Chittenden, Richard Marion; and Ecklund, Oscar Frederick, to American Can Company. Method and apparatus for blow molding hollow thermoplastic articles. 3,428,722, 2-18-69, Cl. 264-98.
Chiu, Herman S.; and Kambara, Frank T., to Union Carbide Corporation. Fibrous food casings and method of producing same. 3,484,256, 12-16-69, Cl. 99-171.
Chiu, Jen, to Du Pont de Nemours, E. I., and Company. Test cell for thermal analysis. 3,453,864, 7-8-69, Cl. 73-15.
Chiu, Joseph Chak-Fai. Readily demountable constructional unit. 3,485,519, 12-23-69, Cl. 287-54.
Chiusolo, Louis L.: *See—*
Saiia, Samuel N.; and Chiusolo, Louis L., 3,445,322.
Chiusolo, Louis L.: *See—*
Saiia, Samuel N.; and Chiusolo, Louis L.,3,445,322.
Chivari, Ilie, to Entwicklungsgesellschaft Eckerfeld KG. Remotely controlled variable speed transmission. 3,426,607, 2-11-69, Cl. 74-330.
Chiyoda Kako Kensetsu Kabushiki Kaisha: *See—*
Kunichika, Sango; Sakakibara, Yasumasa; and Taniuchi, Mamoru, 3,454,667.
Kunichika, Sango; and Sakakibara, Yasumasa, 3,466,324.
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu, 3,454,614.
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu, 3,454,615.
Yumoto, Gonroku, 3,421,650.
Chlormetals Incorporated: *See—*
Bonilla, Charles F., 3,484,233.
Day, George Gerald, 3,468,786.
Chloupek, Frank J., to Sinclair Research, Inc. Disproportionation of alkyl aromatics with a crystalline aluminosilicate and oxygen. 3,437,709, 4-8-69, Cl. 260-672.
Chloupek, Frank J., to Sinclair Research, Inc. Effecting alkylation of paraffinic hydrocarbons with olefins under ultraviolet irradiation. 3,484,354, 12-16-69, Cl. 204-162.
Chloupek, Frank J.; and Sanford, Robert A., to Sinclair Research, Inc. Alkylation process. 3,451,909, 6-24-69, Cl. 204-162.
Chloupek, Frank J.: *See—*
Sanford, Robert A.; and Chloupek, Frank J.,3,456,034.
Chludzinski, George R.: *See—*
Robbins, Max L.; Leder, Frederic; and Chludzinski, George R.,3,429,811.
Chlumecky, Nicholas: *See—*
Taradash, Samuel; and Chlumecky, Nicholas,3,483,706.
Chlupsa, John E.: *See—*
Carey, George F.; Chlupsa, John E.; Schloemer, Howard H.; and King, Emanuel F.,3,473,360.
Chmela, John F. Closure cap. 3,460,724, 8-12-69, Cl. 222-541.
Chmela, John F. Decorative cover. 3,467,456, 9-16-69, Cl. 312-39.
Chmiel, Chester T.; and Witt, Harry S., to Uniroyal, Inc. Composition of matter and golf ball made therefrom. 3,421,766, 1-14-69, Cl. 273-218.
Chmura, Theodore S., to American Bosch Arma Corporation. Fuel injection nozzle. 3,434,667, 3-25-69, Cl. 239-533.
Chmura, Theodore S.; and Voigt, Max H., to AMBAC Industries, Incorporated. Plunger balancing arrangement for fuel injection pumps. 3,420,179, 1-7-69, Cl. 103-2.
Cho, Arthur K., to American Hospital Supply Corporation, mesne. Bis-(alkoxyaryl)alkyl-N-alkenyl-and-alkynyl- amines. 3,468,951, 9-23-69, Cl. 260-570.
Cho, Chun Hyung, to Fisher Governor Company. Electrohydraulic actuator. 3,485,256, 12-23-69, Cl. 137-84.
Choate, William M. Disposable multi-bladed safety razor. 3,430,341, 3-4-69, Cl. 30-40.
Chochrek, Henry F.: *See—*
Faust, Donald M.; and Chochrek, Henry F.,3,449,009.
Chock, Barbara M. Table tennis net. 3,464,695, 9-2-69, Cl. 273-30.
Chodosh, Stewart M., to Leesona Corporation. Method of recharging an electrochemical cell. 3,457,488, 7-22-69, Cl. 320-4.
Chodosh, Stewart M.; and Katsoulis, Emanuel G., to Leesona Corporation. Oxygen depolarized electrochemical modular units. 3,479,225, 11-18-69, Cl. 136-86.
Chodosh, Stewart M.: *See—*
Oswin, Harry G.; and Chodosh, Stewart M.,3,436,270.
Choffart, Pierre, to Compagnie Generale d'Electricite. Tight cover for a semiconductor device. 3,433,885, 3-18-69, Cl. 174-52.
Choiniere, Paul H. Door latch. 3,431,000, 3-4-69, Cl. 292-95.
Chojnowski, Manfred: *See—*
Sucher, Josef; Werner, Siegfried; Schlosser, Hellmut; Chojnowski, Manfred; and Hain, Josef,3,479,723.
Cholet, Jacques; Fail, Jean Pierre; Grau, Gerard; and Magneville, Pierre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Device to avoid the pulsation of the gas bubbles generated by underwater explosions. 3,444,953, 5-20-69, Cl. 181-0.5
Cholewa, Mieczyslaw: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Cholger, Herbert W.: *See—*
Thompson, Robert J.; Boaz, Premakaran T.; Cholger, Herbert W.; Gray, Dorian R.; and Meyer, John H.,3,440,030.
Cholin, Roger R.; and Guest, Kenneth E. Fire extinguishing blanket. 3,486,563, 12-30-69, Cl. 169-26.
Chollet, Raymond A.: *See—*
Profit, Alain; and Chollet, Raymond A.,3,454,928.
Chombard, Pierre Andre, to Societe Francaise d' Equipements pour la Navigation Aerienne. Device for increasing sensitivity damping. 3,435,918, 4-1-69, Cl. 188-1.
Chombart, Robert G., to Maschinenfabrik Fahr Aktiengesellschaft. Haymaking machine and method of operating same. 3,449,897, 6-17-69, Cl. 56-366.
Chomerics, Inc.: *See—*
Ehrreich, John E.; and Avery, Donald H., 3,476,530.
Chomicki, John S., to International Business Machines Corporation. Timed operation sequence controller. 3,434,115, 3-18-69, Cl. 340-172.5
Chomitz, Nicholas; Lindsley, John Francis; and Price, Charles D., to American Cyanamid Company. Catalyst extrusion header and process of extrusion. 3,451,102, 6-24-69, Cl. 18-12.
Chong, Carlos F., to Sperry Rand Corporation. Memory organization for preventing creep. 3,436,743, 4-1-69, Cl. 340-174.
Chong, Carlos F., to Sperry Rand Corporation. Magnetic memory employing reference bit element. 3,449,730, 6-10-69, Cl. 340-174.
Choo, Chai Y., to Halcon International, Inc. Purification of phenol. 3,442,958, 5-6-69, Cl. 260-621.
Choo, Chai Y., to Halcon International, Inc. Process for preparing ethyl benzene hydroperoxide. 3,475,498, 10-28-69, Cl. 260-610.
Choo, Chai Y.; and Golden, Richard L., to Halcon International, Inc. Process for the preparation of ethylbenzene hydroperoxide. 3,459,810, 8-5-69, Cl. 260-610.
Chopard, Perre-Antoine; and Searle, Robert J. G., to American Cyanamid Company. General synthesis of diketophosphoranes and acetylenic ketones. 3,424,799, 1-28-69, Cl. 260-590.
Chopard, Remy: *See—*
Beyner, Andre; Besson, Rene; and Chopard, Remy,3,447,311.
Chope, Henry R., to Industrial Nucleonics Corporation. Energy reflection apparatus for measuring a physical variable. 3,431,417, 3-4-69, Cl. 250-83.3

Chopra, Amarjit: *See*—
Gobhai, Cavas M.; Chopra, Amarjit; and Schoener, Harry,3,425,372.
Chopra, Kasturi L., to Kennecott Copper Corporation. Deposition of thin films. 3,463,663, 8-26-69, Cl. 117-227.
Chopra, Kasturi, to Kennecott Copper Corporation. Deposition of thin films. 3,463,667, 8-26-69, Cl. 117-213.
Chopra, Sohinder Nath, to Chemcell (1963) Limited. Synthetic carpet backing. 3,443,541, 5-13-69, Cl. 112-410.
Chopra, Sohinder Nath; Cormier, Claude J.; and Tessier, Joseph D. L., to Chemcell (1963) Limited. Bulked synthetic fibres. 3,424,834, 1-28-69, Cl. 264-168.
Chore-Time Equipment, Inc.: *See*—
Myers, Lawrence A., 3,479,947.
Chorey, Andro J. Car top carriers. 3,465,929, 9-9-69, Cl. 224-42.01
Chorkey, William J. Check valve. 3,451,422, 6-24-69, Cl. 137-525.
Chorne, Juan: *See*—
Jakas, Rimvydas P.; and Chorne, Juan,3,421,619.
Chorney, Peter L., to FMC Corporation. Waste disposal unit. 3,420,455, 1-7-69, Cl. 241-46.
Chou, Albert S.: *See*—
Brown, Edgar Alan; Chou, Albert S.; and Darling, Richard H.,3,460,469.
Chouinard, Alfred F.; and Beeler, Allan E., to Chemetron Corporation. Low cost resuscitator. 3,461,865, 8-19-69, Cl. 128-145.7
Chouings, Leslie C., to Automotive Products Company Limited. Fluid pressure braking systems for tractor-trailer vehicles. 3,479,094, 11-18-69, Cl. 303-7.
Chow, Alfred W., to Smith Kline & French Laboratories. Bicyclo [3.3.2] decane amines. 3,427,353, 2-11-69, Cl. 260-563.
Chow, Alfred W., to Smith Kline & French Laboratories. Preventing influenza infections with bicyclo (2.2.2) octane-2-methylamine. 3,439,100, 4-15-69, Cl. 424-325.
Chow, Alfred W., to Smith Kline & French Laboratories. Bicyclo [3.2.1] octane amines as anti-influenza agents. 3,439,101, 4-15-69, Cl. 424-325.
Chow, Alfred W., to Smith Kline & French Laboratories. Preventing influenza infection with aminobicyclo [3.2.2]-nonanes. 3,439,102, 4-15-69, Cl. 424-325.
Chow, Alfred W., to Smith Kline & French Laboratories. 2-Substituted pyrimido[1,2-α]benzimidazoles. 3,468,888, 9-23-69, Cl. 260-256.4
Chow, Alfred W.; and Dunn, George L., to Smith Kline & French Laboratories. Aminobicyclo [3.3.1] nonanes. 3,468,950, 9-23-69, Cl. 260-563.
Chow, Alfred W.; and Hall, Norman M., to Smith Kline & French Laboratories. 3-Chlorotriazinoindoles. 3,480,628, 11-25-69, Cl. 260-249.5
Chow, Allan I.; and Milne, James F., to Sperry Rand Corporation. Calculators. 3,430,226, 2-25-69, Cl. 340-347.
Chow, Ho, to International Patent Research Corporation. Travelling sprinkler. 3,430,859, 3-4-69, Cl. 239-183.
Chow, Ho, to International Patent Research Corporation. Oscillating sprinkler. 3,430,860, 3-4-69, Cl. 239-242.
Chow, Ho, to Heim Universal Corporation, The. Linkage joints. 3,441,300, 4-29-69, Cl. 287-90.
Chow, Ho, to Heim Universal Corporation. Method of manufacturing a link member with a spherical bearing. 3,447,357, 6-3-69, Cl. 72-324.
Chow, Ho, to International Patent Research Corporation. Selective pattern lawn sprinkler. 3,464,628, 9-2-69, Cl. 239-97.
Chow, Ho; and D'Angelo, George, to International Patent Research Corporation. Speed slip-on hose coupler locked by fluid pressure. 3,468,562, 9-23-69, Cl. 285-81.
Chow, Ken Tang, to Electro-Nuclear Laboratories, Inc. Charged particle detector. 3,472,711, 10-14-69, Cl. 148-186.
Chow, Sui-Wu; Gulick, Rodwin E.; and Orttung, Frederick W., Jr., to Union Carbide Corporation. Electrodeposited olefin interpolymers and methods for making same. 3,445,362, 5-20-69, Cl. 204-181.
Chow, Wei Teh. Omnidirectional power transmission device. 3,463,029, 8-26-69, Cl. 74-385.
Chow, Woo F., to Sperry Rand Corporation. Plated wire memory plane. 3,449,731, 6-10-69, Cl. 340-174.
Chow, Woo F., to Sperry Rand Corporation. Plated wire memory. 3,456,246, 7-15-69, Cl. 340-174.
Chow, Woo F., to Sperry Rand Corporation. Plated wire memory plane. 3,460,114, 8-5-69, Cl. 340-174.
Chow, Woo F., to Sperry Rand Corporation. Associative memory device providing information which is 'greater than' or 'less than' the stored information. 3,465,309, 9-2-69, Cl. 340-174.
Chow, Woo F., to Sperry Rand Corporation. Destructive transfer, plated wire memory arrangement. 3,487,380, 12-30-69, Cl. 340-174.
Chow, Woo F. Information transfer between magnetizable wires. 3,487,382, 12-30-69, Cl. 340-174.
Chow, Woo F.; and Schwarz, John B., to Sperry Rand Corporation. Arrangement for limiting the current in a ferromagnetic film. 3,466,624, 9-9-69, Cl. 340-174.
Chow, Woo Foung: *See*—
Bartik, William J.; Chow, Woo Foung; and Schwartz, Edward N.,3,421,153.
Chrastil, Alois; Ferguson, Roger W.; and Williams, Kenneth R., to American Bank Note Company. Continuous forms and method and apparatus for making same. 3,484,323, 12-16-69, Cl. 156-513.
Chretien, Roland; d'Ogny, Francois; and Wetroff, Georges, to Produits Chimiques Pechiney-Saint-Gobain. Monoacetylenic ketonic compounds, their use and preparation. 3,475,421, 10-28-69, Cl. 260-240.
Chretien, Roland; and Wetroff, Georges, to Produits Chimiques Pechiney-Saint-Gobain. Conjugated acetylenic ketone and parasiticide thereof. 3,463,788, 8-26-69, Cl. 260-332.3
Chretien, Roland; and Wetroff, Georges, to Produits Chimiques Pechiney-Saint-Gobain. Conjugated acetylenic ketones. 3,475,462, 10-28-69, Cl. 260-347.8
Chretien, Roland; and Wetroff, Georges, to Produits Chimiques Pechiney-Saint-Gobain. Conjugated acetylenic ketones and method for preparation of same and use of same. 3,483,257, 12-9-69, Cl. 260-592.
Chris-Craft Industries, Inc.: *See*—
Eckfield, Eugene L., 3,435,795.
Chrisley, William A. Method of etching and solution therefor. 3,436,283, 4-1-69, Cl. 156-14.
Chrisp, Joseph D., to Du Pont de Nemours, E. I., and Company. Gelled aqueous nitri acid composition and method of making same. 3,444,014, 5-13-69, Cl. 149-45.
Christ-Janer, Victor. Structurally augmented, faced, masonry barrier. 3,421,278, 1-14-69, Cl. 52-419.
Christ, Martin: *See*—
Beutelspacher, Hans, 3,454,341.
Christadore, Morris R.: *See*—
Roberts, William A.; and Christadore, Morris R.,3,478,736.
Christakos, Nicolaos C. Breech loading gun. 3,469,337, 9-30-69, Cl. 42-47.
Christen, Gilbert Paul; and Ruaud, Michel, to Rhone-Poulenc S.A. Polymerization of vinyl chloride in the presence of cycloolefines as chain-transfer agents. 3,438,954, 4-15-69, Cl. 260-92.8
Christener, Hanspeter, to Aktiengesellschaft Brown, Boveri & Cie. Lightning arrester. 3,441,803, 4-29-69, Cl. 317-65.
Christensen, Axel: *See*—
Kuo, Chi S.; and Christensen, Axel,3,475,137.
Christensen, Axel; and Kuo, Chi Sheng, to Chemical Construction Corporation. Apparatus for exothermic catalytic reactions. 3,433,600, 3-18-69, Cl. 23-288.
Mehta, Dinshaw D.; and Christensen, Axel,3,430,451.
Christensen, Burton G.; Leanza, William J.; and Rasmusson, Gary H., to Merck & Co., Inc. Phosphanilic acid derivatives. 3,442,938, 5-6-69, Cl. 260-502.5
Christensen, Carl O., to Roll-Rite Corporation. Universal caster. 3,433,500, 3-18-69, Cl. 280-79.2
Christensen, Conrad L. Ski pole wrist strap. 3,433,495, 3-18-69, Cl. 280-11.37
Christensen Diamond Products Company: *See*—
Austin, Benjamin L., 3,468,583.
Christensen, Frank L., 3,436,868.
Hugel, Helmut; and Manuel, Tom, 3,450,216.
Link, Howard D.; Bridwell, Harold C.; and Rowley, David S., 3,437,159.
Rowley, David S., 3,481,412.
Christensen, Don C., to Phillips Petroleum Company. Process for the polymerization of olefin monomers. 3,438,952, 4-15-69, Cl. 260-83.7
Christensen, Don C.: *See*—
Gwinn, J. S.; and Christensen, Don C.,3,486,193.
Hawkins, Harold M.; and Christensen, Don C.,3,428,619.
Christensen, Donald Ragnvald. Variable vibration pattern game device. 3,463,495, 8-26-69, Cl. 273-110.
Christensen, Eric K., to Harowe Servo Controls, Inc. Stop and retainer for a synchro device. 3,486,148, 12-23-69, Cl. 335-272.
Christensen, Fank W., to Western Electric Company, Incorporated. Short pulse vibratory bonding. 3,458,921, 8-5-69, Cl. 29-470.1
Christensen, Ferdinand. Method of and machine for automatically continuously making ribbon bows. 3,464,601, 9-2-69, Cl. 223-46.
Christensen, Frank L., to Christensen Diamond Products Company. Rounding and polishing apparatus for crystalline carbon bodies. 3,436,868, 4-8-69, Cl. 51-163.
Christensen, Frede; Henningsen, Christian Johannes; Larsson, Bernt Arne Rudolf; Knipstrom, Karl-Erik; and Skarpengland, Bjorn Frost, to Elektriska Svetsningsaktiebolaget. Three-phase welding transformer. 3,427,527, 2-11-69, Cl. 321-8.
Christensen, Harlan B.; and Johnson, Paul C., to Berkley & Company, Inc. Braided steel leader construction. 3,451,305, 6-24-69, Cl. 87-6.
Christensen, Helge K., to Danfoss A/S. Four-way change-over device for hydraulic installations. 3,443,586, 5-13-69, Cl. 137-596.12
Christensen, Helge K., to Danfoss A/S. Hydrostatic steering system. 3,482,398, 12-9-69, Cl. 60-52.
Christensen, James: *See*—
Shortlidge, Donald L.; and Christensen, James,3,421,217.

Christensen, John A., to Rauland Corporation, The. Color-selection mask and post-deflection focus assembly for a color tube. 3,421,048, 1-7-69, Cl. 315-31.
Christensen, Louis R. Set-up gage for punch press, etc.. 3,425,134, 2-4-69, Cl. 33-185.
Christensen, Poul N.: *See*—
Lazarus, Stanley D.; and Christensen, Poul N.,3,484,410.
Christensen, Ralph E., to Union Carbide Corporation. Compositions of polypropylene and a copolymer of ethylene and butene. 3,426,105, 2-4-69, Cl. 260-897.
Christensen, Richard E.; and Christensen, Richard N. Propeller-driven watercraft. 3,434,447, 3-25-69, Cl. 115-0.5
Christensen, Richard L.: *See*—
Olson, Emil H.; Ulmer, William W.; and Christensen, Richard L.,3,445,282.
Christensen, Richard N.: *See*—
Christensen, Richard E.; and Christensen, Richard N.,3,434,447.
Christensen, Robert W. Anchor screw for dental prosthesis. 3,466,748, 9-16-69, Cl. 32-10.
Christensen, Robert W. Dental prosthetic appliance. 3,474,537, 10-28-69, Cl. 32-10.
Christensen, Thor E.: *See*—
Crawford, Louis L.; Christensen, Thor E.; Sondej, Vincent S.; and Bajcar, Miles S.,3,461,482.
Christensen, Verle W., to Miles Laboratories, Inc. Cheese starter culture. 3,483,087, 12-9-69, Cl. 195-96.
Christensen, Weston W. Collapsible dwelling unit. 3,420,567, 1-7-69, Cl. 296-27.
Christensen, William N., deceased0 (by Slaughter, Robert L.; administrator). Electromagnetic metering pump. 3,479,959, 11-25-69, Cl. 103-53.
Christenson, Harlan B.: *See*—
Johnson, Paul C.; and Christenson, Harlan B.,3,436,857.
Christenson, Howard W., to General Motors Corporation. C-6 Hydrostatic tractor transmission. 3,475,903, 11-4-69, Cl. 60-19.
Christenson, Howard W.; and Livezey, William G., to General Motors Corporation. Four wheel drive vehicle with hydro-dynamic torque converter and A.C. generator drive transmission. 3,421,596, 1-14-69, Cl. 180-44.
Christenson, Kenneth M.: *See*—
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M.,3,433,618.
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M.,3,442,638.
Christenson, Lowell B. Mobile/fixed drilling and production structure. 3,442,340, 2-5-69, Cl. 175-8.
Christenson, Roger M.: *See*—
Dowbenko, Rostyslaw; and Christenson, Roger M.,3,431,294.
Erikson, Alden J.; and Christenson, Roger M.,3,422,044.
Prucnal, Paul J.; Wismer, Marco; and Christenson, Roger M.,3,483,273.
Christensson, Bertil Henry Ingemar. Apparatus for detecting the presence and location of ground acoustic information from an aircraft. 3,430,233, 2-25-69, Cl. 343-6.
Christensson, Od Wikar. Arrangement for closing plastic lined packages. 3,426,504, 2-11-69, Cl. 53-141.
Christensson, Od W. Package with hinged lid. 3,423,004, 1-21-69, Cl. 229-14.
Christensson, Od W. Package. 3,423,007, 1-21-69, Cl. 229-31.
Christian, Allen J.: *See*—
Kelly, William J.; and Christian, Allen J.,3,485,232.
Christian, Clarence N. Magnetic holder for pots and pans. 3,423,708, 1-21-69, Cl. 335-285.
Christian, Frank T.; and Hood, Edwin Elliott, to Bendix Corporation, The. Bicycle hub. 3,428,377, 2-18-69, Cl. 308-192.
Christian Holzapfel KG: *See*—
Wittenmayer, Erich, 3,456,969.
Christian, Hugh S.; Lowe, Dale R.; Ulrick, Charles J.; and Womack, Charles P., to Collins Radio Company. High speed inter-computer communication using narrow bandwidth twisted pair cable. 3,465,101, 9-2-69, Cl. 178-68.
Christian, Joseph Dennis, to Packaged Power Terminals Inc. Apparatus for treating flowable materials. 3,486,740, 12-30-69, Cl. 259-2.
Christian, Le Roy, to Sonotone Corporation. Liquid level indicators and particularly level indicators for indicating the electrolyte level in vented rechargeable batteries. 3,451,857, 6-24-69, Cl. 136-182.
Christian, Robert L.; Trout, Paul E.; and Schwenkler, Joseph J., to Container Corporation of America. Modification of linerboard to improve retention of stiffness. 3,485,575, 12-23-69, Cl. 8-116.2
Christian, Robert N.: *See*—
White, Ralph C.; and Christian, Robert N.,3,473,791.
Christian, Rodney E.; and Taudvin, Peter C., to Traub Company, The, mesne. Casting method with laser beam melting of levitated mass. 3,476,170, 11-4-69, Cl. 164-48.
Christian, Thomas: *See*—
Youngblood, Jack L.; and Christian, Thomas,3,486,173.
Christians, H. C., Co.: *See*—
Nilsson, Clarence A., 3,468,670.
Christians, John A., to United States of America, Army. Mooring buoy. 3,425,069, 2-4-69, Cl. 9-8.
Christians, John A.; and Robinson, Frank S., to United States of America, Army. Rigid arm mooring means. 3,442,245, 5-6-69, Cl. 114-230.
Christiansen, Erik Frede. Method for applying streams of insulating particles to stator and rotor winding slots. 3,470,010, 9-30-69, Cl. 117-18.
Christiansen, Gerald E., to Young, Stephen A. Single-lever operated mixing valve. 3,472,283, 10-14-69, Cl. 137-636.3
Christiansen, Godtfred Kirk. Interlego A.G. Building set combination including toy rails, ties and special track sections. 3,464,624, 9-2-69, Cl. 238-10.
Christiansen, Godtfred Kirk, to Interlego A.G. Toy cranes. 3,475,851, 11-4-69, Cl. 46-40.
Christiansen, Hans-Martin, to Siemens Aktiengesellschaft. Circuit for the transfer of stored voltages. 3,443,190, 5-6-69, Cl. 320-1.
Christiansen, Hans-Martin; and Hanni, Manfred, to Siemens Aktiengesellschaft. Pulse modulated counting circuit with automatic stop means. 3,426,296, 2-4-69, Cl. 332-9.
Christiansen, James S., to Sports Industries. Expansible divers's weight belt. 3,470,570, 10-7-69, Cl. 2-338.
Christiansen, Paul J.: *See*—
Howard, Lowell F.; and Christiansen, Paul J.,3,475,658.
Christiansen, Paul; and Amato, Carmelo J., to Lear Siegler, Inc. Cycloconverter control circuit. 3,467,850, 9-16-69, Cl. 321-18.
Christiansen, Robert G.; and Miller, Theodore C., to Sterling Drug Inc. 17-Hydroxy-17-(3-oxo-1-propynyl or-propenyl) steroids. 3,452,060, 6-24-69, Cl. 260-397.4
Christiansen, Thorbjorn N. Machine for cutting bait fish. 3,439,721, 4-22-69, Cl. 146-99.
Christiansen, Tor. Hip-joint prosthesis. 3,466,670, 9-16-69, Cl. 3-1.
Christianson, Carl Raymond. Harvesting apparatus. 3,473,310, 10-21-69, Cl. 56-329.
Christianson, Clinton C., to General Electric Company. Regulated fuel cell system. 3,432,356, 3-11-69, Cl. 136-86.
Christianson, George; Carroll, David A.; and Kuramoto, Simpey, to General Mills, Inc. Process for preparing dry and semi-dry sausage. 3,482,996, 12-9-69, Cl. 99-109.
Christianson, Wallace A.; and Hart, Jack P., to General Motors Corporation. Matrix seal retainer. 3,467,174, 9-16-69, Cl. 165-9.
Christianson, William O.: *See*—
Sitler, Donald D.; and Christianson, William O.,3,470,419.
Christie, Edward Thomas; and Villa, Gianfranco. Lathes and like machine tools. 3,485,119, 12-23-69, Cl. 82-11.
Christie, Samuel H., to Shell Oil Company. Process for curing polyepoxides and resulting products. 3,438,937, 4-15-69, Cl. 260-47.
Christine, William C.; and Pierce, Joseph E., to Allen Electronics, Inc. Cup depositer assembly. 3,420,407, 1-7-69, Cl. 221-221.
Christine, William C.; and Pierce, Joseph E., to Allen Electronics, Inc. Hot water heater and dispenser. 3,420,414, 1-7-69, Cl. 222-146.
Christman, John R. Heat generator. 3,485,191, 12-23-69, Cl. 110-49.
Christman, Marvin O. Indicating slide mechanism. 3,485,204, 12-23-69, Cl. 116-135.
Christman, Ralph E., to Westinghouse Electric Corporation. Refrigeration defrost control responsive to operation of condenser fan. 3,439,511, 4-22-69, Cl. 62-155.
Christman, Ralph E. Mounting assembly article and method of applying same. 3,484,972, 12-23-69, Cl. 40-125.
Christmann, Ludwig J.: *See*—
Roberts, Edward S.; and Christmann, Ludwig J.,3,425,915.
Christmas, Clarence A.: *See*—
Woodruff, Stanley Ray, 3,472,415.
Christmas, Newton. Stacker. 3,436,073, 4-1-69, Cl. 271-76.
Christof, Frank. Accessory seat for toy vehicle. 3,485,507, 12-23-69, Cl. 280-202.
Christofferson, Carl Edward. Convector type heat exchanger. 3,438,437, 4-15-69, Cl. 166-57.
Christofferson, James, to High Voltage Engineering Corporation. Equipotential rings for electrostatic machines. 3,424,929, 1-28-69, Cl. 310-5.
Christophel, Reuben L., to Shenandoah Manufacturing Company, Inc. Gas burner assembly for incinerators. 3,420,613, 1-7-69, Cl. 431-51.
Christopher, Daryl J., to Raytheon Company. Vector generator. 3,431,458, 3-4-69, Cl. 315-18.
Christopher, Glenn B., to Jet Research Center, Inc. Shaped charge and method of manufacture therefor. 3,431,850, 3-11-69, Cl. 102-24.
Christopher, John G.: *See*—
Yeske, Laurel R.; and Christopher, John G.,3,462,923.
Christopher, John P.: *See*—
Britton, Richard K.; Christopher, John P.; Vegella, John S.; and Neuss, William H.,3,484,338.
Christopher, Leonard Henry: *See*—
Disley, Kenneth Thomas; Pearce, Roy George; Christopher, Leonard Henry; and Culver, Leonard James,3,441,006.
Christopher, Peter James, to English Electric Company Limited, The. Float valves. 3,428,078, 2-18-69, Cl. 137-416.

Christopher Thomas: *See*—
Greenfield, Stanley; Jones, Iorwerth Llewelyn William; and Christopher Thomas,3,467,471.
Christopher, William H., Jr.: *See*—
Sauder, Robert A.; Christopher, William H., Jr.; and Bailey, Merrill E.,3,432,991.
Christopherson, Curt Ingvar: *See*—
Wettlen, Lars Malte Roland; and Christopherson, Curt Ingvar,3,443,717.
Christophorou, Loukas G.: *See*—
Carter, James G.; and Christophorou, Loukas G.,3,444,089.
Christy, Alexander C. Apparatus for writing with hand manipulated light source. 3,443,332, 5-13-69, Cl. 40-134.
Christy, Arthur S., Jr.: *See*—
Bosworth, Delbert B.; Christy, Arthur S., Jr.; and La Rochelle, Fernand L.,3,434,609.
Christy, Harold L.; and Folk, Lee E., to Motorola, Inc. Wire severing in wire bonding machines. 3,460,238, 8-12-69, Cl. 29-481.
Christy, Marcia E.: *See*—
Engelhardt, Edward L.; and Christy, Marcia E.,3,428,677.
Christy, Robert R.: *See*—
Warner, Robert T.; and Christy, Robert R.,3,440,537.
Chromalloy American Corporation: *See*—
Friedman, Joseph; and Wachtell, Richard, 3,435,762.
Vogelman, Joseph Herbert; Stephenson, Kenrick; and Feinerman, Bernard, 3,476,882.
Chrome Plate, Inc.: *See*—
Altgelt, George A., 3,445,914.
Chromy, Franz, to Dibotec AG. Self-drilling anchor with enlarged bore zone. 3,467,209, 9-16-69, Cl. 175-395.
Chrouch, Robert C.: *See*—
Walker, Burt; Wollman, Herbert; and Chrouch, Robert C.,3,463,925.
Chrow, Albert E., to Moore, Samuel, and Company. Composite tubing. 3,445,583, 5-20-69, Cl. 174-47.
Chrysler Corporation: *See*—
Ammerman, Frank E., 3,447,971.
Bachmann, William V., 3,427,682.
Bachmann, William V., 3,461,481.
Balan, Isadore; and Scott, Ian J. C., 3,447,624.
Bien, Alfred A., 3,449,799.
Bien, Alfred A., 3,474,846.
Blomquist, Alfred P., 3,426,778.
Brady, Charles E.; and Nuss, Christopher, 3,426,785.
Brandon, Thomas A., Jr., 3,430,439.
Brugler, Richard L., 3,438,219.
Bruhn, Richard A.; and Newland, Findlay E., 3,430,907.
Caldwell, Robert E.; and Cass, Louis G., 3,479,477.
Coudriet, Raymond T., 3,485,448.
Engel, John H., Jr., 3,454,621.
Fields, Bruce G., 3,431,627.
Folkerts, Walter E., 3,422,698.
Frantz, Robert N.; Ryszewski, Vincent J.; and Gilmour, Jack L., 3,441,289.
Fristoe, John E.; and Chambers, Dale T., 3,466,889.
Gau, Leonard P.; and Platzer, George E.Jr., 3,439,250.
Greif, Herman J., Jr.; Kuusik, Uno; and Koch, David A., 3,485,440.
Hewitt, Keith A.; and Krantz, Emerson H., 3,454,299.
Jessee, Joseph S., 3,436,889.
Jessee, Joseph S., 3,471,970.
Keller, Robert P.; and Ash, Eugene J., 3,428,372.
Koch, David A., 3,480,203.
MacAfee, James E.; Davis, Robert L.; and Hentschel, Gerald P., 3,428,034.
Noble, Gardiner A.; and Cummins, James M., 3,460,027.
Nogle, Thomas D.; and Smith, Richard H., 3,485,538.
Nogle, Thomas D., 3,485,540.
Pace, John G., 3,447,646.
Pike, Kenneth R.; Wilcox, Quentin I.; and Cooper, Allen E., 3,430,604.
Platzer, George E., Jr.; and Van Deusen, Bruce D., 3,423,578.
Renneker, Dennis N.; and Lowery, Throck M., 3,434,367.
Ryszewski, Vincent J., 3,428,345.
Sarto, Jorma O.; and Fouts, Paul G., 3,444,846.
Sarto, Jorma O., 3,454,264.
Smith, Robert H.; and Lenosky, John J., 3,453,699.
Snyder, George D., 3,450,853.
Sondej, Robert M., 3,423,549.
Stadelmann, Joachim P., 3,449,955.
Terry, Sydney L.; and Batchelor, Robert B., 3,430,979.
Thorlakson, Daniel O., 3,453,679.
Winkelmann, Otto J.; and Sarto, Jorm O., 3,447,512.
Wu, Kuang-Wei G.; and Wontrobski, Charles E., 3,440,487.
Zichichi, Andrew W.; and Michalke, Klaus A., 3,447,185.
Chrysostomides, Stavro A. Shock absorbers for crutches. 3,486,515, 12-30-69, Cl. 135-50.
Chryssopoulos, Demosthenis: *See*—
Klinger, Stephen R.; De Nunzio, Herman A.; and Chryssopoulos, Demosthenis,3,487,390.
Chu, Arthur S.; and Parker, Almon S., to Allied Chemical Corporation. Aluminum fluoride production. 3,473,887, 10-21-69, Cl. 23-88.
Chu, Chang K., to Westinghouse Electric Corporation. Geometry of shorted-cathode-emitter for low and high power thyristor. 3,476,992, 11-4-69, Cl. 317-235.
Chu, David C.; and Ting, Lee-Sen, to Hewlett-Packard Company. Automatic-gain-controlled amplifier having a level indicator. 3,434,065, 3-18-69, Cl. 330-2.
Chu, Lan J., to United States of America, Navy. Missile guidance method and apparatus. 3,480,233, 11-25-69, Cl. 244-3.18
Chu, Paul T.: *See*—
Coldren, Clarke L.; and Chu, Paul T.,3,474,806.
Shellene, Kent R.; and Chu, Paul T.,3,448,944.
Chu, Paul T.; and Coldren, Clarke L., to Shell Oil Company. In situ pipeline heat generation. 3,473,542, 10-21-69, Cl. 137-13.
Chu, Richard C., to International Business Machines Corporation. Modular cooling system. 3,481,393, 12-2-69, Cl. 165-80.
Chu, Simon L. Lithographic plates. 3,479,182, 11-18-69, Cl. 96-33.
Chu, Simon, to Polychrome Corporation. Lithographic plate. 3,440,050, 4-22-69, Cl. 96-75.
Chua, Hua Thye, to Fairchild Camera and Instrument Corporation. Transient overdrive for diode-transistor- logic circuits. 3,427,474, 2-11-69, Cl. 307-246.
Chua, Hua-Thye, to Fairchild Camera and Instrument Corporation. Flip-flop circuit including, coupling transistors and storage capacitors to reduce capacitor recovery time. 3,437,844, 4-8-69, Cl. 307-292.
Chua, James G. S., to Admiral Corporation. Remote control microphone biasing circuit. 3,430,146, 2-25-69, Cl. 325-392.
Chua, Leon O., to Purdue Research Foundation. Linear active network that rotates a nonlinear resistor characteristic through a predetermined angle. 3,454,908, 7-8-69, Cl. 333-80.
Chubb, Alexander Albert: *See*—
Scragg, Frederick; and Chubb, Alexander Albert,3,444,600.
Chubb-Mosler and Taylor Safes Ltd.: *See*—
Sadler, John Alfred, 3,426,348.
Chubb's Australian Company Limited:*See*—
Burns, Barry, 3,473,262.
Chubbuck, John G., to United States of America, Navy, mesne. Transducer, transducer system and transducer suspension spring. 3,470,432, 9-30-69, Cl. 318-127.
Chuffart, Robert Charles Henri, to Imperial Chemical Industries Limited. Manufacture of chlorinated hydrocarbons. 3,454,660, 7-8-69, Cl. 260-654.
Chugai Denki Kogyo Kabushiki Kaisha: *See*—
Shibata, Akira, 3,460,735.
Chugai Seiyaku Kabushiki Kaisha: *See*—
Katsunuma, Nobuhiko, 3,458,403.
Matsuo, Ichiro; and Ohki, Sadao, 3,429,884.
Nozaki, Hitosi; Noyori, Ryoji; and Mori, Takashi, 3,465,040.
Chugai Seiyaku Kabushiki Kaisha and Kyowa Hokko Co. Ltd.: *See*—
Okamoto, Hajime; and Koshimura, Saburo, 3,477,914.
Chugai Seiyzku K.K.: *See*—
Nitta, Yoshihiro; Namekata, Masaya; Tomita, Eiichi; and Hirota, Yusaku, 3,432,489.
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich. Lubricant for the processes of hot extrusion of metals and alloys. 3,472,050, 10-14-69, Cl. 72-42.
Chuillier, Germaine, born Nachmias: *See*—
Rumpf, Paul; Thuillier, Jean-Eugene; and Chuillier, Germaine, born Nachmias,3,457,273.
Chujfi, Alvaro Saad. Pocketed reversible trousers. 3,425,062, 2-4-69, Cl. 2-227.
Chun, Herbert H., to Varian Associates. Dither-tuned tunable microwave tube apparatus. 3,441,794, 4-29-69, Cl. 315-39.61
Chun, Ping Sun, to Bell Telephone Laboratories, Incorporated. Overload protected switching regulator. 3,466,527, 9-9-69, Cl. 321-14.
Chun, Sung Woo. Beverage can top with tear-out closure retainer. 3,420,398, 1-7-69, Cl. 220-54.
Chung, Harold; Dewhirst, Kenneth C.; and Smutny, Edgar J., to Shell Oil Company. Production of N-[2,7,11(15)-alkapolyenyl] amines. 3,444,202, 5-13-69, Cl. 260-576.
Chung, Kwangho, to Skinner Precision Industries, Inc. Speed sensor for linear induction motors. 3,440,532, 4-22-69, Cl. 324-70.
Chung, Raymond, to Kimberly-Clark Corporation. Process for cross-linking cellulosic fibers during gas suspension of fibers. 3,440,135, 4-22-69, Cl. 162-157.
Chupka, David E., to Black Clawson Company, The. Apparatus for making multi-ply paper. 3,471,367, 10-7-69, Cl. 162-303.
Chupp, John P.: *See*—
Early, Jack D.; and Chupp, John P.,3,454,638.

Chupp, John P., to Monsanto Company. O-(3-Trifluoromethyl-cyanophenyl)-Oh hydrocarbyl alkylphosphonothioates. 3,458,606, 7-29-69, Cl. 260-940.

Chupp, John P.; and Early, Jack D., to Monsanto Company. Control of adult houseflies with 3-(4-halophenyl)- 3'-trifluoromethyl-4'-halo-5-halosalicylanilides. 3,452,142, 6-24-69, Cl. 424-230.

Chur, Sung Pal, to Data Products Corporation. Common cable communication system incorporating isolation diodes. 3,435,415, 3-25-69, Cl. 340-163.

Chur, Sung Pal. Magnetic recording medium testing apparatus. 3,474,331, 10-21-69, Cl. 324-34.

Chur, Sung Pal: *See—*
Stuart-Williams, Raymond; and Chur, Sung Pal,3,479,664.

Church, Charles H.; Davenport, William S.; and Haun, Robert D., Jr., to Westinghouse Electric Corporation. Radiation source for producing continuous coherent radiations. 3,483,481, 12-9-69, Cl. 331-94.5

Church, Charles H.; and Sletten, Andreas M., to Westinghouse Electric Corporation. High power, non-linear, gas tube resistor. 3,474,287, 10-21-69, Cl. 315-36.

Church, Herman S., to Monarch Rubber Company, The. Rubber moldings for automobile windows and manufacture thereof. 3,436,891, 4-8-69, Cl. 52-716.

Church, James W., to Wallaceburg Brass, Limited. Single handle mixing faucet. 3,437,112, 4-8-69, Cl. 137-636.2

Church, Joseph H. Electronic razor. 3,480,848, 11-25-69, Cl. 318-128.

Church, Peter K., to Kaman Sciences Corporation, mesne. Linear differential transformer transducer with nonmagnetic core. 3,484,678, 12-16-69, Cl. 323-51.

Church, Ralph E.; and Lindt, Stanley L., to General Electric Company. Motor vibration suppression mounting system. 3,465,182, 9-2-69, Cl. 310-51.

Church, Richard A., to Carrier Corporation. Air conditioning apparatus. 3,441,080, 4-29-69, Cl. 165-2.

Church, Richard O.: *See—*
Davis, William J.; and Church, Richard O.,3,474,703.

Church, Robert Fitz Randolph; Kende, Andrew Steven; and Weiss, Martin Joseph, to American Cyanamid Company. 2,2-and 3,3-hydrazi-steroids of the androstane and pregnane series. 3,438,973, 4-15-69, Cl. 260-239.5

Church, Robert Fitz Randolph; and Weiss, Martin Joseph, to American Cyanamid Company. Novel 2-azoalkyl-7-chloro-1,2,3,4-tetrahydro-4- oxo-6-quinazolinesulfonamides. 3,459,752, 8-5-69, Cl. 260-256.5

Church, Robert J., to Du Pont de Nemours, E. I., and Company. Stable fertilizer ammoniating solution and method of making said solution. 3,438,764, 4-15-69, Cl. 71-30.

Church, Robert Stanley, to Wingard Limited. Anti-glare rear view mirror for vehicles. 3,463,576, 8-26-69, Cl. 350-281.

Church, Thomas A.; and Davis, George D., to International Molding Machine Co. Molding machine. 3,478,812, 11-18-69, Cl. 164-183.

Church, Warren C., to Lane Company Inc., The. Reclining chair. 3,476,495, 11-4-69, Cl. 297-83.

Churches, Dave F. Leg stabilizer for skiers. 3,439,387, 4-22-69, Cl. 24-73.

Churchill, Alan W., to Automatic Switch Company. Valve having releasable latch mechanism. 3,463,443, 8-26-69, Cl. 251-70.

Churchill, Alan W.; and Freeman, Arthur W., to Automatic Switch Company. Manually operable valve having solenoid controlled releasable latch mechanism. 3,463,444, 8-26-69, Cl. 251-70.

Churchill, Alan W.; and Freeman, Arthur W., to Automatic Switch Company. Valve having solenoid controlled connection between manual operator and valve element. 3,463,445, 8-26-69, Cl. 251-70.

Churchill, Charles, and Company Limited: *See—*
Thorneycroft, Malcolm, 3,438,293.

Churchill Instrument Company Limited: *See—*
Stimpson, Gordon Edward Tribe, 3,423,502.

Churchill, Ivan F.; Searcy, Homer A.; and Taylor, Monroe F., to Grace, W. R., & Co. Wrapping machine. 3,469,368, 9-30-69, Cl. 53-229.

Churchill Machine Tools Co., Limited, The: *See—*
Welsh, Robert J., 3,456,394.

Churchill, Ralph, Jr.; and Flock, Henry H., to Parker-Hannifin Corporation. Speed variable piston and cylinder arrangements. 3,476,014, 11-4-69, Cl. 91-394.

Churchill, Robert C., to General Dynamics Corporation. Single unit main landing gear system. 3,485,465, 12-23-69, Cl. 244-102.

Churla, John J., to Thomas & Betts Corporation. Card frame assembly. 3,432,794, 3-11-69, Cl. 339-17.

Churla, John J., to Thomas & Betts Corporation. Multiconductor cable connector assembly. 3,435,403, 3-25-69, Cl. 339-17.

Chute, Challoner R. Plant receptacle. 3,455,055, 7-15-69, Cl. 47-38.1

Chute, Richard, to Eaton Yale & Towne, Inc. Safety apparatus. 3,460,853, 8-12-69, Cl. 280-150.

Chute, Richard, to Eaton Yale & Towne, Inc. Safety method and apparatus. 3,481,625, 12-2-69, Cl. 280-150.

Chute, Richard: *See—*
Martin, Robert L.; and Chute, Richard,3,429,583.

Chutter, Richard R. Pneumatic tubular construction. 3,473,761, 10-21-69, Cl. 244-119.

Chvapil, Milos; Krajicek, Milan; and Adam, Miloslav, to Spofa, Sdruzeni podniku pro zdravotnickou vyrobu. Artificial blood vessels and mehod of preparing the same. 3,425,418, 2-4-69, Cl. 128-334.

Chwasciak, Paul, to Burroughs Corporation. Business form layout specification sheet. 3,484,120, 12-16-69, Cl. 283-56.

Chwastiak, Stephen, to Union Carbide Corporation. Asbestos composition. 3,471,438, 10-7-69, Cl. 260-40.

Chyle, John J., to Smith, A. O., Corporation. Dual arc welding process. 3,437,787, 4-8-69, Cl. 219-137.

Chynoweth, Alan G., to Bell Telephone Laboratories, Incorporated. High speed magnetoresistive switching device. 3,428,833, 2-18-69, Cl. 307-309.

Chyo Balance Corporation: *See—*
Iwata, Shigeo, 3,469,455.

Ciaccia, Patrick J.,: *See—*
Ciaccia, Patrick J., 3,482,065.

Ciaccia, Patrick J., 42% to Ciaccia, Patrick J., 29% to Linsley, Douglas F., and 29% to Swebilius, Earl. Rotary distributor switch for internal combustion engine. 3,482,065, 12-2-69, Cl. 200-24.

Ciaccio, Peter L., to Flexible, Inc. Sewer rodding machine with power reel. 3,464,076, 9-2-69, Cl. 15-104.3

Cialella, Carmen M., to United States of America, Army. Directional radiation detector. 3,454,770, 7-8-69, Cl. 250-105.

Ciampa, Lincoln L., to Becton, Dickinson and Company. Package for syringe. 3,434,587, 3-25-69, Cl. 206-17.5

Ciampa, Lincoln Lloyd, to Becton, Dickinson and Company. Shearing device. 3,444,620, 5-20-69, Cl. 30-231.

Ciancio, Pasqualina J. Liquid applicator. 3,428,404, 2-18-69, Cl. 401-109.

Ciancio, Peter G. Saddle support. 3,476,255, 11-4-69, Cl. 211-13.

Ciapetta, Frank G.: *See—*
Baker, Richard W.; Ciapetta, Frank G.; Wilson, Charles P., Jr.; and Maher, Philip K.,3,425,956.

Ciapetta, Frank G.; Henderson, Donald S.; and Baust, George A., to Grace, W. R., & Co. Catalytic muffler device. 3,471,265, 10-7-69, Cl. 23-288.

Ciavola, David T.: *See—*
Kozlin, Joseph R.; and Ciavola, David T.,3,455,537.

Ciba Corporation: *See—*
Anner, Georg; Ueberwasser, Helmut; and Meystre, Charles, 3,423,437.
Anner, Georg; Meystre, Charles; Kalvoda, Jaroslav; and Ueberwasser, Hellmut, 3,431,191.
Anner, Georg; and Wieland, Peter, 3,432,528.
Anner, Georg; and Kalvoda, Jaroslav, 3,459,769.
Anner, Georg; and Kalvoda, Jaroslav, 3,459,791.
Anner, Georg; and Kalvoda, Jaroslav, 3,470,240.
Bauer, Kurt, 3,432,594.
Beck, Dieter; and Schenker, Karl, 3,429,886.
Bencze, William Laszlo, 3,470,234.
Bencze, William Laszlo, 3,471,505.
Bencze, William Laszlo, 3,476,767.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Schenker, Karl; and Urech, Jakob, 3,483,197.
Blatter, Herbert Morton, 3,423,409.
Blatter, Herbert Morton, 3,423,414.
Carney, Richard William James; Blatter, Herbert Morton; and de Stevens, George, 3,454,573.
Carney, Richard William James; Blatter, Herbert Morton; and DeStevens, George, 3,483,200.
Carney, Richard William James, 3,483,205.
Daeniker, Hans Ulrich, 3,423,458.
Daeniker, Hans Ulrich, 3,449,343.
Daeniker, Hans Ulrich, 3,454,629.
De Luca, Patrick Philip; and Lachman, Leon, 3,429,967.
de Stevens, George; Blatter, Herbert Morton; and Chernov, Harvey, 3,449,498.
Dreyfuss, Paul; and Anderau, Walter, 3,436,218.
Fearon, Robert Earl; and Foss, Rudolph George, 3,475,239.
Finch, Neville; and Taylor, William Irving, 3,466,319.
Fuhrer, Walter, 3,442,897.
Gaeumann, Ernst; Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst, 3,471,476.
Hotko, Edward Alexander; and Lachman, Leon, 3,456,049.
Huebner, Charles Ferdinand; and Bencze, William Laszlo, 3,422,114.
Huebner, Charles Ferdinand; and Werner, Lincoln Harvey, 3,459,860.
Huebner, Charles Ferdinand; and Werner, Lincoln Harvey, 3,470,185.
Hueni, Albrecht; Schweizer, Ernst; and Schroeder, Dorothy, 3,445,467.
Ilvespaa, Atso, 3,464,984.
Jaques, Roland; and Desaulles, Pierre-Antoine, 3,462,531.
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli, 3,428,537.

Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt, 3,454,599.
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli, 3,478,068.
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli, 3,483,235.
Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt, 3,484,456.
Keberle, Heinrich; Faigle, Johann Werner; and Wilhelm, Max, 3,471,548.
Lachman, Leon; and Rehm, Carl Richard, 3,443,004.
Marxer, Adrian; and Ferrini, Pier Giorgio, 3,455,918.
Marxer, Adrian, 3,459,765.
Marxer, Adrian, 3,468,906.
Marxer, Adrian, 3,487,469.
Mizzoni, Renat Herbert, 3,449,360.
Mizzoni, Renat Herbert; and de Stevens, George, 3,454,575.
Mizzoni, Renat Herbert; Lucas, Robert Armistead; and de Stevens, George, 3,455,923.
Mizzoni, Renat Herbert, 3,455,937.
Mizzoni, Renat Herbert, 3,468,893.
Mizzoni, Renat Herbert, 3,481,941.
Mizzoni, Renat Herbert, 3,483,209.
Mull, Robert Paul; and Mizzoni, Renat Herbert, 3,423,406.
Mull, Robert Paul, 3,459,792.
Pita, Fred, 3,453,293.
Robison, Michael Mullen, 3,455,944.
Schenker, Karl, 3,474,463.
Schmidt, Paul; Schweizer, Ernst; Eichenberger, Kurt; and Wilhelm, Max, 3,422,098.
Schmidt, Paul, 3,442,894.
Schmidt, Paul; Eichenberger, Kurt; Rossi, Alberto; and Wilhelm, Max, 3,444,177.
Schmidt, Paul; Wilhelm, Max; and Eichenberger, Kurt, 3,455,928.
Schmidt, Paul; Eichenberger, Kurt; and Wilhelm, Max, 3,475,443.
Sheth, Pravin; and Lachman, Leon, 3,421,920.
Smith, James Gordon, 3,434,473.
Speiser, Peter, 3,432,592.
Urech, Jakob; Fechtig, Bruno; Bosshardt, Rolf; Bickel, Hans; Schenker, Karl; and Wilhelm, Max, 3,484,437.
Vester, Frederic; Majer, Heinz; and Mueller, Johannes, 3,472,831.
Vester, Frederic, 3,475,402.
Vischer, Ernst; Fechtig, Bruno; and Bickel, Hans, 3,454,564.
Walker, Gordon Northrop, 3,449,350.
Walker, Gordon Northrop, 3,471,473.
Werner, Lincoln Harvey, 3,449,418.
Werner, Lincoln Harvey; and Barrett, Walter Edward, 3,449,500.
Werner, Lincoln Harvey, 3,480,714.
Werner, Lincoln Harvey, 3,483,203.
Werner, Lncoln Harvey, 3,483,206.
Wettstein, Albert; Anner, Georg; Ehmann, Ludwig; and Wieland, Peter, 3,453,296.
Wettstein, Albert; Anner, Georg; Heusler, Karl; Kalvoda, Jaroslav; and Ueberwasser, Hellmut, 3,458,539.
Wilhelm, Max, 3,423,425.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul, 3,455,946.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul, 3,480,640.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul, 3,483,221.

Ciba Limited: *See*—
Altermatt, Hans, 3,478,024.
Altermatt, Hans, 3,484,441.
Anderau, Walter, 3,443,952.
Anderau, Walter; Mory, Rudolf; and Piller, Bernhard, 3,454,402.
Anderau, Walter; and Schaller, Heinrich, 3,455,694.
Artz, Klaus, 3,478,011.
Arya, Vishwa Prakash, 3,470,184.
Arya, Vishwa Prakash, 3,472,857.
Arya, Vishwa Prakash, 3,478,032.
Batzer, Hans; and Nikles, Erwin, 3,436,408.
Batzer, Hans; Ernst, Otto; and Niklaus, Ulrich, 3,470,266.
Batzer, Hans; and Porret, Daniel, 3,480,692.
Berger, Alfred; and Lange, Burkhart, 3,427,251.
Beriger, Ernst; and Ebner, Ludwig, 3,456,039.
Beriger, Ernst, 3,459,801.
Beriger, Ernst, 3,468,984.
Beriger, Ernst, 3,483,252.
Bresciani, Angelo; and Deflorin, Alberto, 3,455,861.
Buehler, Arthur; Sulzer, Georg; and Fasciati, Alfred, 3,468,618.
Cameron, Grant McLay; and Duke, Angus John, 3,465,057.
Casty, Richard; Berger, Alfred; Mosimann, Walter; and Abel, Heinz, 3,421,830.
Daendliker, Gustav; and Fuerer, Heini, 3,430,108.
De Montmollin, Rene, 3,449,317.
Dobinson, Bryan, 3,438,911.
Dubsky, George Jon; and Stark, Bernard Peter, 3,458,483.
Duennenberger, Max; and Schellenbaum, Max, 3,470,232.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig, 3,429,688.
Duerr, Dieter; Rohr, Otto; Aebi, Hans; and Ebner, Ludwig, 3,429,689.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig, 3,467,757.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig, 3,487,156.
Ehrat, Kurt, 3,427,399.
Ehrat, Kurt; and Zuehlke, Gerhard, 3,453,919.
Ehrbar, Jakob; and Flury, Emil, 3,463,062.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans, 3,455,869.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans, 3,470,128.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans, 3,470,129.
Ernst, Otto; Neubold, Kurt; Ibing, Guenther; and Kugler, Fritz, 3,470,132.
Forster, Ewald; Porret, Daniel; and Ruf, Peter, 3,483,168.
Frauchiger, Ulrich; and Becheiraz, Joseph, 3,457,898.
Frey, Christoph; Hecker, August; Mueller, Rudolf; and Surber, Werner, 3,472,844.
Froehlich, Alfred, 3,455,892.
Froehlich, Alfred, 3,455,893.
Froehlich, Alfred, 3,472,145.
Geiger, Max, 3,470,293.
Greenlee, Sylvan O., 3,454,539.
Guglielmetti, Leonardo; Maeder, Erwin; Liechti, Peter; and Siegrist, Adolf Emil, 3,449,330.
Guth, Christian, 3,421,923.
Guye-Vuilleme, Jean-Frederic, 3,455,958.
Guye-Vuilleme, Jean-Frederic, 3,484,460.
Hari, Istvan; and Staeuble, Max, 3,483,230.
Hegar, Gert, 3,455,922.
Hofmann, Peter; and Guth, Christian, 3,449,160.
Huber, Helmut; Schaefer, Paul; and Biland, Hans Rudolf, 3,423,360.
Jaeger, Horst, 3,449,218.
Leumann, Ernst; and Porret, Daniel, 3,465,030.
Liechti, Peter; and Roth, Willy, 3,468,963.
Loeffel, Hansrole, 3,443,953.
Lohse, Friedrich; and Batzer, Hans, 3,442,870.
Luescher, Rene, 3,438,354.
Luethi, Christian, 3,442,898.
Luethi, Christian; and Eschle, Karl, 3,444,164.
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil, 3,429,877.
Maeder, Erwin; and Siegrist, Adolf Emil, 3,444,180.
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil, 3,455,837.
Martin, Henry; Aebi, Hans; and Ebner, Ludwig, 3,420,892.
Martin, Henry; Duerr, Dieter; Hitz, Hans Rudolf; and von Orelli, Marcus, 3,483,296.
McKay, Alan Gordon; and Brown, Peter Thomas, 3,449,278.
Merk, Wilhelm, 3,462,537.
Metzger, Karl; Porret, Daniel; and Batzer, Hans, 3,423,429.
Montmollin, Ren'e De; Loeffel, Hansrolf; Oetiker, Alfred; and Buehler, Arthur, 3,444,156.
Mory, Rudolf; and Oetiker, Alfred, 3,443,947.
Mory, Rudolp, 3,454,401.
Mueller, Jean; and Bucher, Ernst, 3,459,543.
Nachbur, Hermann; Berger, Alfred; Guth, Christian; and Maeder, Arthur, 3,423,369.
Nachbur, Hermann; Werner, Robert; and Maeder, Arthur, 3,449,302.
Nagarajan, Kuppuswamy, 3,423,402.
Neuenschwander, Ernst; Schuett, Klaus; and Scheller, Walter, 3,429,661.
Nikles, Erwin; and Rohr, Otto, 3,455,983.
Nikles, Erwin, 3,459,751.
Nikles, Erwin; and Hitz, Hans-Rudolf, 3,459,771.
Nobs, Horst, 3,472,670.
Oetiker, Alfred; and Mory, Rudolf, 3,443,949.
Orth, Hans; and Niklaus, Ulrich, 3,449,340.
Piller, Bernhard; and Oetiker, Alfred, 3,429,705.
Piller, Bernhard, 3,455,695.
Porret, Daniel, 3,429,833.
Porret, Daniel, 3,432,500.
Porret, Daniel; and Aenishaenslin, Rudolf, 3,449,353.
Porret, Daniel; Lohse, Friedrich; Leumann, Ernst; Nikles, Erwin; and Batzer, Hans, 3,455,949.
Ramanathan, Visvanathan, 3,483,180.
Reich, Ernst; and Rickenbacher, Hans Rudolf, 3,439,003.
Reich, Ernst; and Dettwiler, Werner, 3,449,425.
Rembold, Karl-Heinz, 3,480,471.
Renner, Alfred, 3,428,607.
Renner, Alfred, 3,470,110.
Rhyner, Paul; and Artz, Klaus, 3,438,967.
Riat, Henri; and Hegar, Gert, 3,438,962.
Rickenbacher, Hans Rudolf, 3,433,810.
Rickenbacher, Hans Rudolf, 3,455,970.
Rohr, Otto, 3,421,883.
Rohr, Otto; and Hubele, Adolf, 3,423,470.

Rohr, Otto, 3,472,933.
Rohr, Otto, 3,480,658.
Ronco, Karl; and Mueller, Willy, 3,438,966.
Ronco, Karl; and Roueche, Armand, 3,472,834.
Ronco, Karl; and Hari, Istvan, 3,480,625.
Schaefer, Paul; and Oetiker, Alfred, 3,455,690.
Schaefer, Paul; Mayer, Fritz; and Maeder, Arthur, 3,459,716.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,444,179.
Stahel, Peter; Wegmann, Jacques; and Ruetimeyer, Bernhard, 3,424,543.
Stark, Bernard Peter; and Jones, Michael Edward Benet, 3,424,699.
Thaddey, Kurt, 3,469,915.
Weber, Kurt; Staeuble, Max; Ulrich, Paul; and Kern, Walter, 3,464,780.
Weber, Kurt; Rickenbacher, Hansruedi; and Meister, Ulrich, 3,473,882.
Wick, Arnold, 3,471,524.
Zickendraht, Christian; and Buehler, Arthur, 3,483,190.
Zimmermann, Karl; Sturzenegger, Carlmax; and Eicher, Werner, 3,441,141.

Cibie, Pierre, to Projecteurs Cibie. Arrangement for the automatic regulation of the orientation of the headlamps of a vehicle. 3,453,424, 7-1-69, Cl. 240-7.1

Ciboit, Jacques Jean, to Etablissements Laguilharre. Process for the treatment of powdered products. 3,443,959, 5-13-69, Cl. 99-56.

Cibula, Alvin M.: *See—*
Flatt, Walter W., 3,429,633.

Cibula, William G.; and Schuster, Ronald, to Picker Corporation, mesne. X-ray timing device using a light-conducting paddle with spaced light-admitting holes for uninterrupted light transmission to a detector. 3,444,378, 5-13-69, Cl. 250-95.

Ciccarelli, Dom J.: *See—*
Calhoon, Charles D., Sr.; and Ciccarelli, Dom J.,3,444,557.

Cicchiello, Frank N., to General Atronics Corporation. Photoelectric code reading apparatus having auxiliary light source for bias and including edge illuminated plate. 3,440,431, 4-22-69, Cl. 250-219.

Ciccone, Michael J.Hairdresser's curling tool. 3,460,545, 8-12-69, Cl. 132-33.

Ciccone, Thomas Q.; and Kowalick, James F., to United States of America, Army. Dispersal projectile. 3,434,420, 3-25-69, Cl. 102-56.

Ciccotto, Domenick. Cathode ray tube having image-forming elements in displaced, parallel planes. 3,478,242, 11-11-69, Cl. 313-92.

Ciccu, Raimondo: *See—*
Ferrara, Gianfranco; Del Fa', Clemente; Carta, Mario; and Ciccu, Raimondo,3,476,243.

Cicognani, Mario, to Pirelli S.p.A. V-Belt. 3,479,892, 11-25-69, Cl. 74-233.

Cicutta, Guerrino: *See—*
Peracca, Manlio; and Cicutta, Guerrino,3,441,061.

Cic Electro-Mecanique: *See—*
Bidard, Rene, 3,450,904.

Cic Fsc des Matieres Plastiques Plasco: *See—*
Riss, Paul; and Fuchs, Joseph, 3,454,181.

Ciegler, Alex; and Lillehoj, Eivind B., to United States of America, Agriculture. Microbiological decontamination of aflatoxin- contaminated edibles. 3,428,458, 2-18-69, Cl. 99-2.

Cielaszyk, Edward F., to General Time Corporation. Friction mechanism for clock. 3,443,375, 5-13-69, Cl. 58-85.5

Cielaszyk, Edward F., to General Time Corporation. Animated novelty clock. 3,461,665, 8-19-69, Cl. 58-29.

Cielaszyk, Edward F.: *See—*
Frey, Hubertus G.; and Cielaszyk, Edward F.,3,451,272.

Cielo, John R., to International Business Machines Corporation. DC-to-DC converter with continuous feed to the load. 3,443,194, 5-6-69, Cl. 321-2.

Cier, Harry E. Extractive recovery of formaldehyde. 3,423,368, 1-21-69, Cl. 260-67.

Cier, Harry E., to Esso Research and Engineering Company, mesne. Solution dimerization. 3,454,665, 7-8-69, Cl. 260-666.

Cieri, Frank Vincent: *See—*
Sepulveda, Ralph Raymond; and Cieri, Frank Vincent,3,474,038.

Ciesielski, Leo Frank: *See—*
Herrlinger, Richard; Kirkland, Claude James; and Ciesielski, Leo Frank,3,432,402.

Ciesla, Stanley F.: *See—*
Wilkinson, Ralph L.; and Ciesla, Stanley F.,3,472,671.

Cieslak, Arthur B.: *See—*
Jorgensen, Adam A.; Cieslak, Arthur B.; and Bentley, Robert W.,3,445,728.

Cieslik, Robert J.: *See—*
Merrill, Alan M.; and Cieslik, Robert J.,3,473,748.

Cifelli, John G. Hold down device for conduit-enclosed cables or wires. 3,454,115, 7-8-69, Cl. 174-135.

Cigarette Components Limited: *See—*
Hemming, David Henry; and Davenport, Francis Robert, 3,485,208.

Cilag-Chemie Limited: *See—*
Habicht, Ernst; and Zubiani, Ruggero, 3,435,035.
Richter, Carl; and Erdmann, Raymond, 3,444,056.

Cilia, Paolo. Hanger for disc-shaped phonograph records. 3,429,629, 2-25-69, Cl. 312-10.

Cillag, John R.; and Campbell, James D., III, to Du Pont de Nemours, E. I., and Company. Fused salt electrolytic cell with diaphragms having insulative spacers. 3,432,421, 3-11-69, Cl. 204-247.

Cilluffo, Frank A. Childproof safety container and closure. 3,445,022, 5-20-69, Cl. 215-9.

Cilluffo, Frank A.; and Rusak, Walter, Jr., to Lipton, Thomas J., Inc. Containers. 3,424,351, 1-28-69, Cl. 222-189.

Ciments Lafarge: *See—*
Rives, Jean Joseph, 3,425,853.

Cimerol, Joseph J.; Clarke, William M.; and Denton, William I., to Olin Mathieson Chemical Corporation. Hydrogenation apparatus provided with internal filter for separating reaction product. 3,431,085, 3-4-69, Cl. 23-288.

Cimetiere, Claudette; Desroches, Jean; and Routier, Claude, to Commissariat a l'Energie Atomique. Process of extraction of polonium. 3,459,513, 8-5-69, Cl. 23-312.

Cimetta, Henry. Slide rule. 3,443,749, 5-13-69, Cl. 235-70.

Cimlov, Boris, to FMC Corporation. Fluid flow control apparatus. 3,442,305, 5-6-69, Cl. 141-141.

Cimolino, Gerald N. Co-axial cable stripping, trimming and cutting tool. 3,486,216, 12-30-69, Cl. 29-427.

Cinatl, Fred J.; and Lehman, Lewis M., to Square D Company. Electrical connector assembly for the vertical bus bars in a control center cabinet section. 3,478,299, 11-11-69, Cl. 339-64.

Cincinnati Butchers' Supply Company, The:*See—*
Jones, Royal R., 3,471,534.
Sims, Fred I., 3,422,769.
Travlos, John A., 3,485,274.

Cincinnati Cleaning and Finishing Machinery Company: *See—*
Huddle, Harley E., 3,442,708.

Cincinnati Industries Inc.: *See—*
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe William Wallace, 3,483,071.
Krehnbrink, Lewis W., 3,476,644.

Cincinnati Milling Machine Co., The: *See—*
Abt, Ronald C.; and Adams, Robert R., 3,427,239.
Abt, Ronald C., 3,430,851.
Ackermann, Russell A., Jr., 3,471,277.
Berghauoen, Philip E., 3,443,153.
Bruns, Edward C., 3,465,630.
Burnett, Lonnie A.; Rave, Joseph A., Jr.; Read, Richard E.; and Neal, Norman D., 3,486,012.
Decker, Jacob, 3,420,009.
Decker, Jacob, 3,434,244.
Easton, Arlyn T., 3,442,785.
Edwards, Bobbie L., 3,430,473.
Frye, Alfred H., 3,452,047.
Frye, Alfred H., 3,486,992.
Hendrixson, Charles D.; and Henry, Robert L., 3,471,241.
Henry, Robert L., 3,463,896.
Long, William A., 3,485,701.
Losey, Jerry E., 3,483,347.
Ma, Carlton Y. W.; and Pfister, Stanley A., 3,478,513.
Messinger, Richard C., 3,451,300.
Morgan, John M., Jr., 3,474,216.
Neal, Norman D.; Taylor, Ralph C., Jr.; and Albrecht, George O., 3,465,332.
Ray, Joseph C., 3,447,402.
Read, Richard E., 3,430,035.
Richter, Robert C.; and Hasz, John R., 3,486,585.
Soukup, Victor G.; and Horst, Raymond W., 3,477,900.
Stuckey, Albert D. C.; and Gruber, Paul J., 3,422,583.
Wolf, Marvin L., 3,482,521.

Cincinnati Shaper Company, The: *See—*
Graf, Raymond J.; Burns, Robert; and Jahnke, Robert H., 3,448,645.
Graf, Raymond John; and Koors, Carl William, 3,460,202.
Smith, Joe A., 3,464,089.

Cincinnati Time Recorder Co.: *See—*
Zimmer, Ernest B., 3,469,390.

Cincinnati Time Recorder Company, The: *See—*
Schinner, Thomas J.; and Zimmer, Ernest B., 3,463,890.

Cindico (Products) Limited: *See—*
Shaw, David Robert, 3,447,832.

Cinerama, Inc.: *See—*
Conroy, Coleman T., 3,457,007.

Cines, Martin R., to Phillips Petroleum Company. Method for coating the interior surface of a polyolefin article with an impermeable polymer. 3,449,479, 6-10-69, Cl. 264-92.

Cines, Martin R., to Phillips Petroleum Company. Parison heating. 3,462,582, 8-19-69, Cl. 219-388.

Cines, Martin R.; and Findlay, Robert A., to Phillips Petroleum Company. Method of producing a foamed and/or cross-linked polymer using a radiation decomposable agent. 3,484,352, 12-16-69, Cl. 204-159.18

Cinnamon, Jerome M.: *See—*
Schipper, Edgar; Oroshnik, William; and Cinnamon, Jerome M.,3,435,064.
Cinquin, Jean Pierre, to Lucien Ferraz & Cie. Fuse cartridge. 3,453,579, 7-1-69, Cl. 337-203.
Ciochetto, Joseph J., to Koppers Company, Inc. Apparatus for making steel. 3,480,266, 11-25-69, Cl. 266-27.
Ciofani, Ovid P. Method of making a reflective flexible screen. 3,454,687, 7-8-69, Cl. 264-1.
Cioffi, Angelo J.: *See—*
Burdock, Joseph L.; and Cioffi, Angelo J.,3,483,678.
Ciongwa, Joachim; and Sushardt, Wolfgang, to Holstein & Kappert Maschinenfabrik 'Phonix' GmbH. Transporting arrangement for bottles or the like in a bottle cleaning apparatus. 3,474,894, 10-28-69, Cl. 198-131.
Ciotti, George A.; and Shade, Keith N., to Smith, A. O., Corporation. Selectively operable multiple loads. 3,436,528, 4-1-69, Cl. 235-92.
Cipan-Companhia Industrial Produtora de Antibioticos S.A.R.L., Societe Anonyme: *See—*
da Silva, Joao Jse Rodiles Frausto, 3,483,199.
Circle F Industries, Inc.: *See—*
Lawson, Gustaf R., 3,464,050.
Circle Machine Co., Inc.: *See—*
Comeau, George O.; Laurence, Leonard J.; and Ordway, Richard S., 3,466,683.
Circuit Research Company: *See—*
Burr, Robert Page, 3,431,638.
Cirer, Frank H.: *See—*
Southerland, Arthur, Jr.; Cirer, Frank H.; and Anderson, Alfred G.,3,480,157.
Ciriack, Gunter; Eckert, Georg; and Hofmann, Horst, to Siemens Aktiengesellschaft. Electrode system for electronic-discharge tubes. 3,453,479, 7-1-69, Cl. 313-311.
Ciric, Julius; and Reid, Luther J., Jr., to Mobil Oil Corporation. Method of preparing faujasite-type crystalline zeolites. 3,433,589, 3-18-69, Cl. 23-113.
Cirino, John F.; and Brenner, Charles, to Mr. Robot, Inc. Vehicle washing apparatus. 3,431,580, 3-11-69, Cl. 15-302.
Cirrincione, Gilbert; and Anderson, Robert R., to Gardner-Denver Company. Compressor control system. 3,482,768, 12-9-69, Cl. 230-205.
Cissell, Ralph E.: *See—*
Darr, Joseph, Jr.; and Cissell, Ralph E.,3,443,472.
Cissell, W. M., Manufacturing Company: *See—*
Blevens, Bertram G., 3,429,489.
Cist, John David, to Du Pont de Nemours, E. I., and Company. Defect detector which simultaneously views a large and small area of the sample. 3,427,462, 2-11-69, Cl. 250-219.
Cistola, Anthony B., to International Business Machines Corporation. Planar visual readout display devices. 3,426,248, 2-4-69, Cl. 315-169.
Cistone, David R., to Armstrong Cork Company. Vented closure. 3,471,051, 10-7-69, Cl. 215-40.
Ciszewski, Joseph F.; Hayase, Masashi; and Robinson, Norman F., to McDonnell Douglas Corporation, mesne. Induction heating tool. 3,428,769, 2-18-69, Cl. 219-9.5
CIT-Compagnie Industrielle des Telecommunications: *See—*
Berman, Leon, 3,426,279.
Berman, Leon, 3,449,690.
Bizet, Pierre, 3,431,435.
Bizet, Pierre, 3,443,234.
Laborde, Emile; and Zilberman, Jean, 3,451,913.
Lalande, Jean F.; and Sichel, Alfred, 3,458,826.
Moch, Pierre, 3,482,042.
Monin, Claude, 3,449,590.
Monin, Claude, 3,486,035.
Oswald, Jacques, 3,479,457.
Selz, Jacques, 3,462,558.
Citation Manufacturing Company, Inc.: *See—*
Birdwell, Dewie W., 3,437,110.
Cities Service Athabasca, Inc.: *See—*
Cymbalisty, Lubomyr M. O.;, 3,430,814.
Cymbalisty, Lubomyr M. O., 3,433,245.
Cities Service Oil Company: *See—*
Beers, Russel L., 3,448,787.
Burke, Walter E.; and Hinds, Lennox S., 3,462,598.
Ehrgott, Charles W.; and Kerschner, Paul M., 3,425,930.
Fallgatter, Wayne S., 3,421,582.
Fallgatter, Wayne S., 3,452,817.
Fischer, Robert L., 3,428,565.
Hellings, Richard E., 3,421,838.
Revukas, Anthony J., 3,440,028.
Revukas, Anthony J., 3,445,206.
Revukas, Anthony J., 3,478,088.
Cities Service Research and Development Company: *See—*
Stokes, Charles W., 3,449,085.
Van Driesen, Roger P., 3,420,711.
Van Driesen, Roger P., 3,477,944.
Cities Service Tankers Corporation: *See—*
Maddock, Edward G., 3,450,086.
Citizen Tokei Kabushiki Kaisha: *See—*
Iwasawa, Hiroshi; Isekil, Hajime; and Hirano, Hiroshi, 3,433,011.
Iwasawa, Hiroshi; Inoki, Kazuyoshi; and Iseki, Hajime, 3,452,539.
Mori, Tadamichi; and Tanabe, Koji, 3,422,738.
Mori, Tadamichi; and Tanabe, Koji, 3,474,713.
Mori, Tadamichi; Yanagawa, Yoshihiko; and Suzuki, Naomichi, 3,481,258.
Nakai, Akira; Nakagawa, Kei; Kume, Kazunari; and Aida, Tadayoshi, 3,469,389.
Shimizu, Shotaro; and Watai, Kuniyoshi, 3,444,012.
Tamaru, Munetaka, 3,429,119.
Teramoto, Kazuo; and Nakayama, Yasuaki, 3,438,196.
Yoshida, Masateru; and Mori, Tadamichi, 3,429,242.
Citizen Watch Co., Ltd.: *See—*
Nakazima, Yoshiyuki; and Kozasa, Ken, 3,465,611.
Piero, Barozzi Gian; and Giancarlo, Horeschi, 3,458,124.
Piero, Barozzi Gian; and Giancarlo, Horeschi, 3,469,778.
Piero, Barozzi Gian; and Giancarlo, Horeschi, 3,482,775.
Usui, Hiroshi; and Kaminishi, Takehito, 3,465,512.
Citizens and Southern National Bank, Trustees, Employees' Savings and Profit Sharing trust fund of the:*See—*
Martin, Roy A., 3,455,431.
City of Hope Medical Center: *See—*
Roberts, Eugene, 3,448,009.
Ciuffini, Anthony J. Display method for cathode ray tube. 3,473,075, 10-14-69, Cl. 315-10.
Ciullo, Vincent J. Modular wall panel construction. 3,452,499, 7-1-69, Cl. 52-311.
Civitello, Anthony J., to Continental Can Company, Inc. Bag with pocket. 3,456,866, 7-22-69, Cl. 229-56.
Civolani, Bruno, to Benell S.p.A. Gun with a floating breech bolt. 3,447,417, 6-3-69, Cl. 89-182.
CkD Blansko, narodni podnik: *See—*
Hosnedl, Vaclav; and Nechleba, Miroslav, 3,433,165.
CKD Praha, oborovy podnik: *See—*
Bezouska, Vlastimil; Skvor, Josef; Pajisek, Frantisek; Zavazal, Zdenek; and Polorny, Oldrich, 3,435,304.
Pospisil, Jaroslav; and Hubacek, Vaclav, 3,479,882.
C&L Industries, Inc: *See—*
Levake, Richard Neilson, 3,453,006.
Claas, Gunther. Electric spot welding apparatus. 3,487,191, 12-30-69, Cl. 219-119.
Claas, Reinhold. Aligning device for attachments of agricultural machines and the like. 3,431,711, 3-11-69, Cl. 56-21.
Claasen, Volkert: *See—*
Moed, Hendrik Durk; Claasen, Volkert; and van Dijk, Jan,3,444,210.
Claassen, Volkert; Huisman, Hendrikus Obias; and Mos, Gerardus Henricus Maria, to U.S. Philips Corporation, mesne. Compositions and methods employing N(α-naphthyl) aminoaliphatic acid and lower alkyl esters thereof as tranquilizers. 3,472,938, 10-14-69, Cl. 424-309.
Clachan, Margaret L.: *See—*
Abbott, Terence A.; Clachan, Margaret L.; Kennedy, David Rankine; McIntyre, Ian S.; and Shephard, Basil R.,3,447,947.
Clachan, Margaret L.; McGrail, Patrick Terrence; and Shephard, Basil R., to Bexford Limited. Plastic film coated with antistatic agent. 3,446,651, 5-27-69, Cl. 117-73.
Clachan, Margaret L.; McGrail, Patrick T.; Turner, Richard G.; and Shephard, Basil R., to Bexford Limited. Hydrophobic film rendered antistatic by phenol- formaldehyde resin derivatives. 3,475,203, 10-28-69, Cl. 117-138.8
Clack, Alan V.: *See—*
Clukey, Wayne H.; Alboucq, Robert L.; and Clack, Alan V.,3,442,786.
Claes, Jean Arthur Auguste. Sliding closures. 3,481,079, 12-2-69, Cl. 49-216.
Claessens, Frans D.; and Hein, Theodore F., to N.V. Koninklijke Sphinx-Ceramique v/h Petrus, Regout. Method of drying a moulded ceramic article on a form. 3,439,433, 4-22-69, Cl. 34-103.
Claesson, Nils-Erik: *See—*
Persson, Erik; Claesson, Nils-Erik; Trulsson, Ingvar; and Melandsor, Osvald,3,470,383.
Claeys, Marcel. Weft-gripper for shuttleless loom. 3,447,574, 6-3-69, Cl. 139-125.
Claeys, Marcel. Control element for shuttleless looms. 3,457,967, 7-29-69, Cl. 139-122.
Claff, Clarence Lloyd. Fluid habitat or bath system for marine biological studies. 3,438,356, 4-15-69, Cl. 119-1.
Claff, Clarence Lloyd. Perfume dispenser. 3,441,353, 4-29-69, Cl. 401-132.
Claff, Clarence Lloyd. Biological fluid bath. 3,442,117, 5-6-69, Cl. 73-19.
Claff, Clarence Lloyd; and Crescenzi, Armand A., to Single Cell Research Foundation, Inc. Method for the extracorporeal oxygenation of blood. 3,482,575, 12-9-69, Cl. 128-214.

Claflin, Gerald E.: *See—*
Barrett, John R.; Bray, Thomas E.; and Claflin, Gerald E.,3,486,029.
Clairex Electronics, Inc.: *See—*
Deuth, Albert F., 3,430,220.
Clairol Incorporated: *See—*
Dasher, George F.; and Wall, Robert A., 3,472,604.
Flax, Martha A., 3,441,033.
Flax, Martha A., 3,476,123.
Grandinetti, Edward M., 3,473,005.
Pum, Franz, 3,449,056.
Wall, Robert A.; and Fainer, Percy, 3,472,243.
Clairpol (Machines) Limited: *See—*
Clegg, Charles Alan, 3,459,288.
Clam Seals International Company Limited: *See—*
Rose, Cyril Ernest; and Hansard, Michael Eric, 3,458,220.
Clamens, Henri, to Societe Nationale des Petroles d'Aquitaine. Method for the subterranean storage and with- drawal of a liquid. 3,459,002, 8-5-69, Cl. 61-0.5
Clampitt, Rodney B.; Birum, Gail H.; and Anderson, Richard M., to Monsanto Company. Organic phosphorus products. 3,468,678, 9-23-69, Cl. 106-15.
Clancy, David, to Colgate-Palmolive Company. Packaging apparatus and method. 3,481,099, 12-2-69, Cl. 53-21.
Clancy, John Patrick, to Anaconda Company, The. Method and apparatus for producing copper foil by electrodeposition. 3,461,046, 8-12-69, Cl. 204-13.
Clanin, Marshall D.: *See—*
Povenmire, Kenneth M.; and Clanin, Marshall D.,3,430,125.
Clanton, Raymond W. Tie bar forming and feeding apparatus. 3,423,811, 1-28-69, Cl. 29-33.
Clapham, Fred Robinson, to Schlegel Manufacturing Company, The. Draught excluders. 3,430,387, 3-4-69, Cl. 49-491.
Clapham, Robert G.; Lord, John B., IV; and Sullivan, Harold G., to Honeywell Inc. Automatic data channel equalization apparatus utilizing a transversal filter. 3,445,771, 5-20-69, Cl. 325-42.
Clapp, Clarence P., to Aerosol Techniques Research Center, Incorporated. Dispensing valve for pressurized container. 3,437,246, 4-8-69, Cl. 222-402.2
Clapp, James Wellington,: *See—*
Papp, Grace Peters; and Clapp, James Wellington,,3,429,907.
Clapp, James Willington: *See—*
Papp, Grace Peters; and Clapp, James Willington,3,443,924.
Clapp, Richard W.: *See—*
Bramblett, Ernest K., II; and Clapp, Richard W.,3,448,253.
Clapp, Roger E. Double switch multiplier. 3,486,122, 12-23-69, Cl. 328-160.
Clapper, Genung L., to International Business Machines Corporation. Speech analysis system. 3,479,460, 11-18-69, Cl. 179-1.
Clappier, Robert R.; and MacQueen, Ewan C., to International Nickel Company, Inc., The. Hot extrusion of metals. 3,456,469, 7-22-69, Cl. 72-42.
Clappison, Reginald J. S., to Western Mining Corporation Limited. Apparatus for deflecting a borehole. 3,421,590, 1-14-69, Cl. 175-73.
Clapsaddle, Victor, to North American Winfield Door Corp. Panel mounting construction. 3,428,326, 2-18-69, Cl. 52-502.
Clar, Philip L., to Motorola, Inc. Transistor protection circuit. 3,424,993, 1-28-69, Cl. 330-24.
Clardy, Edwin K., to Phillips Petroleum Company. Differential flame ionization chromatographic analysis. 3,443,415, 5-13-69, Cl. 73-23.1
Clardy, Edwin K,. Analog computer for determining the proportion of one response to a sum of responses. 3,449,556, 6-10-69, Cl. 235-193.
Clardy, Edwin K., to Phillips Petroleum Company. Method and apparatus for chromatographic analysis of a binary mixture without peak separation. 3,468,156, 9-23-69, Cl. 73-23.1
Clardy, Edwin K.; and Raible, Clarence J., to Phillips Petroleum Company. Flow programmed chromatography. 3,457,774, 7-29-69, Cl. 73-23.1
Clare, Alan C.: *See—*
Wycherley, John Ralph; Proudman, Michael C.; and Clare, Alan C.,3,469,182.
Clare, C. P., & Company: *See—*
Chanowitz, Harry, 3,421,874.
Deeg, Wyman L., 3,423,734.
Deeg, Wyman L., 3,480,939.
Deeg, Wyman L., 3,487,364.
Koda, Arthur J.; and Kutyla, John, 3,470,502.
Rosenberg, Roger L.; Watson, Donald W.; and Zielinski, Robert D., 3,437,740.
Clare, Harold; and Sherwood, Michael, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Combustion devices. 3,455,108, 7-15-69, Cl. 60-39.72
Clare, John; and Crary, William G., to General Motors Corporation. Retainer assembly for vehicle bodies. 3,451,716, 6-24-69, Cl. 296-137.
Clare-Pendar Co.: *See—*
Martin, Carl E., 3,432,624.
Martin, Carl E., 3,467,802.
Claren, Rodolfo, to Salvi, A., & Co. S.p.A. Vibration dampers for suspended members. 3,432,610, 3-11-69, Cl. 174-42.
Claret, Rene Jean-Baptiste, to Societe d'Applications Generales d'Electricite et de Mecanique, S.A.G.E.M. Apparatus for measuring the spherical coordinates of a luminous point. 3,471,936, 10-14-69, Cl. 33-205.
Claridge, Dennis Victor, to Imperial Chemical Industries Limited. Dinuclear bridged copper and palladium complexes. 3,453,299, 7-1-69, Cl. 260-429.
Clariex Corporation: *See—*
Neiger, Benjamin B., 3,433,962.
Clark & Vicario Corporation: *See—*
Kaiser, Robert G., 3,432,036.
Clark, Adrian Percy, to British Telecommunications Research Limited. Data receiver for digital character divided into two halves, each half employing quaternary frequency modulation. 3,440,345, 4-22-69, Cl. 178-50.
Clark, Albert A.; Craig, Allen G.; and Wilbur, Benjamin, to General Electric Company. Stabilization control system. 3,456,511, 7-22-69, Cl. 74-5.4
Clark, Arthur Delt, to Clark, Francis Delt. Tree fruit handling receptacle Belt and buckle. 3,459,318, 8-5-69, Cl. 214-83.1
Clark, Arthur Delt; and Clark, Francis Delt. Mobile worker support. 3,448,827, 6-10-69, Cl. 182-14.
Clark, Arthur E., to U.S. Philips Corporation, mesne. Comparator gauge. 3,483,334, 12-9-69, Cl. 33-201.1
Clark, Arthur E. Comparator gauge. 3,484,945, 12-23-69, Cl. 33-201.
Clark Associates Inc.: *See—*
Clark, Myron L.; and Young, David G., Jr., 3,457,912.
Clark, Bruce P. Male genital appliance. 3,455,301, 7-15-69, Cl. 128-79.
Clark, Bryce L.; and Miller, Carl S., to Minnesota Mining and Manufacturing Company. Thermographic copying sheets. 3,481,760, 12-2-69, Cl. 117-36.2
Clark, Calmar W., to University of Idaho Research Foundation, Inc. Test circuit for resonant frequency and impedance determination employing oscillator and bridge inductively coupled by interchangeable coils. 3,482,159, 12-2-69, Cl. 324-57.
Clark, Carroll E. Transmission shield. 3,455,409, 7-15-69, Cl. 180-82.
Clark, Charles Alfred; and Berry, Roy David, to International Nickel Company, Inc., The. Brazing alloy of improved workability containing nickel and palladium. 3,438,770, 4-15-69, Cl. 75-134.
Clark, Charles Alfred; Butt, Ronald John; and Mason, John Jefferson, to International Nickel Company, Inc., The. Production of grain-oriented silicon steels. 3,446,680, 5-27-69, Cl. 148-112.
Clark, Charles C.; and Krawczyk, Arthur J., to Textron, Inc. Fire retardant urethane compositions. 3,448,075, 6-3-69, Cl. 260-45.85
Clark, Charles William. Coin-controlled sound record producing apparatus. 3,444,334, 5-13-69, Cl. 179-100.4
Clark, Charles William. Automatic photographic apparatus including a masking system. 3,471,233, 10-7-69, Cl. 355-125.
Clark Controller Company, The: *See—*
Carlisle, Benjamin H.; Daggs, Kenneth L.; and Sauter, John D., 3,446,985.
Clark, David A. Lift hitch assembly. 3,428,335, 2-18-69, Cl. 280-479.
Clark, David, Company, Incorporated: *See—*
Chisholm, John J.; and Hills, George B., 3,448,706.
Flagg, John E., 3,432,861.
Clark, David J.; and Bonin, Walter T. Wire saw drum. 3,478,732, 11-18-69, Cl. 125-12.
Clark, Donald E.; and Eide, Melvin O., to United Control Corporation. Force measuring system with nonlinear network. 3,435,670, 4-1-69, Cl. 73-141.
Clark, Donald E.; and Grant, Norman H., to American Home Products Corporation. 6-(1-Aminocyclopentanecarboxamido) penicillanic acid methanolate. 3,471,475, 10-7-69, Cl. 260-239.1
Clark, Donald E.: *See—*
Grant, Norman H.; Alburn, Harvey E.; and Clark, Donald E.,3,487,105.
Clark, Duncan; and Hayden, Percy, to Imperial Chemical Industries, Limited. Oxidation of aldehydes with a palladous salt, a copper salt and oxygen in the presence of water or carboxylate ions. 3,420,880, 1-7-69, Cl. 260-530.
Clark, Earl A.: *See—*
Langtry, Robert W.; Shepherd, Richard, 3rd; and Clark, Earl A.,3,447,381.
Clark, Earl C.; and Schumacher, Edward B., to Esso Research and Engineering Company. Cyclone separator for high temperature operations. 3,470,678, 10-7-69, Cl. 55-269.
Clark, Earl J., to Bucheimer-Clark Leather Goods Corp. Holster for revolver. 3,420,420, 1-7-69, Cl. 224-2.
Clark, Earl S.: *See—*
Miller, Raymond H.; and Clark, Earl S.,3,471,934.

Clark, Earnest H., Jr.; De Rochemont, John F.; and Keithahn, Julian D., to Baker Oil Tools, Inc. Rotationally set well packer. 3,433,303, 318-69, Cl. 166-184.
Clark, Edgar L.: *See—*
Mc Whorter, Charles J.; and Clark, Edgar L.,3,468,826.
Clark, Edmund G., to Lockheed Aircraft Corporation. Heavy duty multiple axle vehicle. 3,471,166, 10-7-69, Cl. 280-104.5
Clark, Edward Watson; and Kitchen, Geoffrey F., to Woolcombers Limited, a/t/a Westbrook Lanolin Co. Treatment of liquors from the treatment of raw wool. 3,440,167, 4-22-69, Cl. 210-50.
Clark, Emmett T., 1/4 to Shanley, James J. Package of tobacco leaves. 3,470,882, 10-7-69, Cl. 131-4.
Clark Equipment Company: *See—*
Chichester, Willard L., 3,455,322.
Cook, Charles J., 3,433,455.
De Pung, Gary L.; and Haddock, Louis A., Jr., 3,477,539.
Dence, Donald S.; and Frost, Barry L., 3,439,766.
Detwiller, Ronald H.; Ostenson, Donald O.; and Weispfenning, Walter W., 3,483,930.
Fisher, John F.; and Zeller, Burton S., 3,465,609.
Hancock, James E.; and Stuller, Howard E., 3,426,457.
Henyon, Lewis E., 3,473,402.
Howard, Wayne R., 3,440,902.
Jordan, Wayne W., 3,433,376.
Jung, Richard R., 3,439,451.
Jung, Richard R., 3,443,838.
Jung, Richard R., 3,466,010.
Jung, Richard R., 3,480,126.
King, James F., 3,466,058.
Kolecki, Richard E., 3,465,854.
Lundquist, Ivan, 3,485,396.
McIntosh, Richard F., 3,433,324.
McIntosh, Richard F., 3,433,325.
Mihills, Kenneth D., 3,481,484.
Peppel, Jon H., 3,473,566.
Perez, Arthur; and Myers, James E., 3,478,535.
Pi, Alberto E., 3,462,028.
Reid, Chester L., 3,463,471.
Rogers, Cyril B., 3,430,780.
Schenkelberger, Frank J., 3,430,974.
Simpson, Richard H., 3,452,611.
Stuller, Howard E., 3,444,750.
Sturtz, Charles R., Jr., 3,481,498.
Swanson, Sven V., 3,464,224.
Thomas, Henry J., 3,486,333.
Waclawek, Miczyslaw J., 3,461,670.
Watters, Johnny T., 3,452,883.
Clark, Floyd W. Work holder and bench for fitting hardware to doors and the like. 3,441,068, 4-29-69, Cl. 144-288.
Clark, Francis Delt: *See—*
Clark, Arthur Delt, 3,459,318.
Clark, Francis Delt: *See—*
Clark, Arthur Delt; and Clark, Francis Delt,3,448,827.
Clark, Frank E.; Pugh, Clyde C.; and von Konsky, Robert H., to Container Corporation of America. Case packer adapter. 3,430,416, 3-4-69, Cl. 53-159.
Clark, Gaylord J. Brush structure. 3,439,373, 4-22-69, Cl. 15-182.
Clark, George B.; and Kavanagh, James A., to Aqua-Chem, Inc. Osmotic pressure demonstration kit and method of making the same. 3,430,360, 3-4-69, Cl. 35-18.
Clark, George B.; and Manjikian, Serop, to Universal Water Corporation. Reverse osmosis apparatus. 3,430,770, 3-4-69, Cl. 210-321.
Clark, George Kenneth: *See—*
Lamburn, Alan Salisbury; Abbott, Randle Leslie; Whateley, Eric Albert; and Clark, George Kenneth,3,472,098.
Clark, George S., Jr.: *See—*
Tedeschi, Robert J.; and Clark, George S., Jr.,3,462,499.
Clark, Glen L.; and Kirby, Robert A., to Allied Chemical Corporation. Flange protectors for yarn beams. 3,474,900, 10-28-69, Cl. 206-59.
Clark, Glenn L.; Hanley, William G.; and Palovcik, John, to Rockwell-Standard Company, mesne. Method of making one-piece tubular vehicle axle. 3,465,418, 9-9-69, Cl. 29-477.
Clark, Harold A.; and Vanwert, Bernard. Blends of liquid vinyl unsaturated hydrocarbon polymers with organopolysiloxanes. 3,433,760, 3-18-69, Cl. 260-37.
Clark, Harold A.: *See—*
Campbell, James K.; and Clark, Harold A.,3,460,216.
Clark, Harold E., to Xerox Corporation. Xerographic imaging employing a selectively removable layer. 3,446,616, 5-27-69, Cl. 96-1.5
Clark, Harold E., to Xerox Corporation. Electroviscous recording. 3,484,162, 12-16-69, Cl. 355-3.
Clark, Harry S. Rotary cam actuated reciprocating stamping press. 3,421,397, 1-14-69, Cl. 83-623.
Clark, Henry Cecil, to Clarks Limited. Shoe support for sole edge trimming machine. 3,426,376, 2-11-69, Cl. 12-86.7
Clark, Homer E., Jr., to Alcan Company, Incorporated. Unitary wad column and shot container. 3,422,762, 1-21-69, Cl. 102-42.
Clark, Homer E., Jr., to Alcan Company, Incorporated. Base wad. 3,427,920, 2-18-69, Cl. 86-12.
Clark, Howard P.; Barnhill, Kenneth S., Jr.; and Wilson, Martin, to United States Borax & Chemical Corporation. Process for recovering potash values. 3,446,443, 5-27-69, Cl. 241-20.
Clark, Howard R. Pickup camper and trailer top boat loader. 3,478,908, 11-18-69, Cl. 214-450.
Clark, Howard S.: *See—*
Ruggles, Kay L.; Gunnerson, Dale B.; and Clark, Howard S.,3,433,860.
Clark, Hubert M.; and Drutchas, Gilbert H., to TRW Inc. Variable delivery pump or compressor. 3,424,094, 1-28-69, Cl. 103-120.
Clark, Hubert M.; and Drutchas, Gilbert H., to TRW Inc. Antiskid device. 3,467,441, 9-16-69, Cl. 303-21.
Clark, Hubert M.; and Drutchas, Gilbert H., to TRW, Inc. Hydraulic actuated skid control device. 3,480,336, 11-25-69, Cl. 303-21.
Clark, J. L., Manufacturing Co.: *See—*
Foster, John A., 3,422,984.
Foster, John A., 3,469,732.
Clark, Jack W.: *See—*
Buchanan, Edward R.; and Clark, Jack W.,3,483,047.
Clark, James A.; and Esmay, Edward N., to Bausch & Lomb, Incorporated. Multiple objective nosepiece mounting. 3,471,220, 10-7-69, Cl. 350-254.
Clark, James d'A. Continuous treatment of fibrous material and apparatus. 3,467,576, 9-16-69, Cl. 162-237.
Clark, James E.; and Ross, Ian M., to Bell Telephone Laboratories, Incorporated. Apparatus for making encapsulations. 3,465,943, 9-9-69, Cl. 228-4.
Clark, James E.: *See—*
Hibbard, William D.; Clark, James E.; and Rapp, Bernard R.,3,465,916.
Clark, James R. Safety guard for steering wheels. 3,437,350, 4-8-69, Cl. 280-150.
Clark, James. Methods and apparatus for energy transfer. 3,448,791, 6-10-69, Cl. 165-1.
Clark, Jared W.: *See—*
Rectenwald, Charles E.; Keller, George E., II; and Clark, Jared W.,3,427,359.
Clark, Joe Haller: *See—*
Angier, Robert Bruce; Murdock, Keith Chadwick; and Clark, Joe Haller,3,459,861.
Clark, Joe M.; and Workman, Donald P., to List & Clark Construction Company. Apparatus for laying protective material on embankments. 3,426,925, 2-11-69, Cl. 214-46.
Clark, Joe W., to United States of America, Agriculture. Laminated wood beam with improved preservative treatment. 3,445,325, 5-20-69, Cl. 161-166.
Clark, John E.; and Bungener, Jakobus A., to Standard Chemical Products, Inc. Textile softener compositions. 3,454,494, 7-8-69, Cl. 252-8.8
Clark, John J., Jr. Hydraulic power unit. 3,465,523, 9-9-69, Cl. 60-221.
Clark, John M., Jr.; Brown, Robinson W.; and Hemion, Roger H., to Southwest Research Institute. Method of and an apparatus for displacing materials. 3,461,577, 8-19-69, Cl. 37-1.
Clark, John Peter, III: *See—*
King, Cary Judson, III; and Clark, John Peter, III;3,453,741.
Clark, John W.: *See—*
Flaherty, John J.; Clark, John W.; and Rosauer, Peter J.,3,448,606.
Clark, Joseph A. Furnace grate construction. 3,439,652, 4-22-69, Cl. 122-374.
Clark, Joseph C. Power operated fruit harvesting head. 3,462,930, 8-26-69, Cl. 56-328.
Clark, Joseph H., Jr., to General Electric Company. Heat bath appliance. 3,419,915, 1-7-69, Cl. 4-160.
Clark, Julius. Apparatus for aligning pipe ends. 3,425,614, 2-4-69, Cl. 228-49.
Clark, Keith: *See—*
Watson, James S.; and Clark, Keith,3,447,892.
Clark, Kendall: *See—*
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr.,3,473,212.
Clark, Kendall; De Turris, Frank L.; and Kaper, Ronald G., to International Business Machines Corporation. Pulse transformer and method of fabrication. 3,483,495, 12-9-69, Cl. 336-65.
Clark, Kendall; Herrmann, Karl E.; and Klein, William A., to International Business Machines Corporation. Die casting of core windings. 3,477,051, 11-4-69, Cl. 336-65.
Clark, Kendall; Herrmann, Theodor; Lattin, Jocelyn C.; and Medwid, John, to International Business Machines Corporation. Apparatus for forming and positioning. 3,465,408, 9-9-69, Cl. 29-203.
Clark, Kendall; and Lia, Rudolph F., to International Business Machines Corporation. Pulse transformer. 3,483,497, 12-9-69, Cl. 336-96.
Clark, Kendall; Rajac, Thomas J.; Santillo, George R., Jr.; and Schuelke, Walter J., to International Business Machines Corpora-

tion. Vacuum operated chip placement head. 3,453,714, 7-8-69, Cl. 29a203.
Clark, Larry Keith; and Bartlett, Peter Greenough, to Bliss, E. W., Company. Traffic controller having improved time waiting gap reduction circuit. 3,466,599, 9-9-69, Cl. 340-37.
Clark, Leonard R.: *See—*
Schreyer, Kenneth D.; and Clark, Leonard R.,3,473,187.
Clark, Lowell E.: *See—*
Farrar, Lee M.; and Clark, Lowell E.,3,436,617.
Clark, Lyman M., to Becton, Dickinson and Company. Packaging method. 3,456,783, 7-22-69, Cl. 206-65.
Clark, Melville, Jr. Signal waveform generation. 3,441,653, 4-29-69, Cl. 84-1.17
Clark, Merlin G., to A-C Equipment Company. Core chuck. 3,480,224, 11-25-69, Cl. 242-68.2
Clark, Milton B., to Union Carbide Corporation. Method and apparatus for cleaning fuel cell electrolytes. 3,481,853, 12-2-69, Cl. 204-186.
Clark, Milton B.: *See—*
Schumacher, Erwin A.; and Clark, Milton B.,3,427,199.
Clark, Myron L.; and Young, David G., Jr., to Clark Associates Inc. Hand exercising device. 3,457,912, 7-29-69, Cl. 128-26.
Clark, Neil M.: *See—*
Lindstrom, Oscar H.; and Clark, Neil M.,3,470,668.
Clark, Norman Owen; and Windle, William, to English Clays Lovering Pochin & Company Limited. Coating of sheet material. 3,484,279, 12-16-69, Cl. 117-111.
Clark, Norman R.: *See—*
Geisler, William; and Clark, Norman R.,3,430,326.
Geisler, William; and Clark, Norman R.,3,439,589.
Clark, Paul D., to Delbar Products, Incorporated. Remote control mirror system. 3,476,464, 11-4-69, Cl. 350-299.
Clark, Peter Joseph, to Lucas, Joseph, (Industries) Limited. Supports for fuel burners. 3,458,997, 8-5-69, Cl. 60-39.74
Clark, Peter O.: *See—*
Bridges, William B.; and Clark, Peter O.,3,427,567.
Clark, Peter O., to Hughes Aircraft Company. Frequency stabilized laser. 3,487,327, 12-30-69, Cl. 331-94.5
Clark, Philip B., to McGraw-Edison Company. Luminaire optical assembly. 3,427,447, 2-11-69, Cl. 240-93.
Clark, Ralph J.: *See—*
Johnston, Raymond; Moran, Edwin G.; and Clark, Ralph J.,3,477,413.
Clark, Raymond C., to Huyck Corporation. Ventilation system for a papermaking machine. 3,445,938, 5-27-69, Cl. 34-116.
Clark, Raymond N.; Duris, Milan W.; and Koros, Leslie L., deceased, to United States of America, Air Force. Coaxial circuit for vacuum tubes. 3,466,497, 9-9-69, Cl. 315-39.
Clark, Richard C., to International Rectifier Corporation. Housing structure for electrical device adapted for crimp connection to circuits. 3,422,212, 1-14-69, Cl. 174-52.
Clark, Richard J., to Racine Hydraulics, Inc. Valve having cushioning means. 3,456,688, 7-22-69, Cl. 137-625.63
Clark, Richard U. Hermetic electric terminals. 3,457,361, 7-22-69, Cl. 174-153.
Clark, Robert C.; and Jones, Jerry M., to General Electric Company. Width gage which generates pulse width proportional to deviation from desired width. 3,441,739, 4-29-69, Cl. 250-219.
Clark, Robert Edward, to BTR Industries Limited. Panels. 3,465,121, 9-2-69, Cl. 219-213.
Clark, Robert H.; and Myers, Philip E., to Warner Electric Brake & Clutch Company. Magnetic friction coupling with partly laminated flux circuit. 3,444,970, 5-20-69, Cl. 192-84.
Clark, Robert John, to Radio Corporation of America. Display systems. 3,422,420, 1-14-69, Cl. 340-324.
Clark, Robert John, to Radio Corporation of America. Character generator for simultaneous display of separate character patterns on a plurality of display devices. 3,426,344, 2-4-69, Cl. 340-324.
Clark, Robert L., to National Lead Company. Method and apparatus for captive washer assembling. 3,447,229, 6-3-69, Cl. 29-418.
Clark, Robert L.; Patchett, Arthur A.; and Rogers, Edward F., to Merck & Co., Inc. Anticoccidial compositions containing substituted quinoline-3-carboxylates. 3,474,169, 10-21-69, Cl. 424-258.
Clark, Robert L.: *See—*
Patchett, Arthur A.; Clark, Robert L.; and Rogers, Edward F.,3,448,193.
Patchett, Arthur A.; Rogers, Edward F.; and Clark, Robert L.,3,449,403.
Rogers, Edward F.; and Clark, Robert L.,3,422,200.
Rogers, Edward F.; and Clark, Robert L.,3,429,969.
Rogers, Edward F.; and Clark, Robert L.,3,431,300.
Rogers, Edward F.; Clark, Robert L.; and Patchett, Arthur A.,3,478,084.
Clark, Roland Everett: *See—*
Collins, Fredrick P.; and Clark, Roland Everett,3,443,199.
Clark, Ronald; and Corlett, Ewan Christian Brew, to Hydroconic Limited. Propulsive systems for vessels. 3,442,244, 5-6-69, Cl. 114-163.
Clark, Ronald; and Corlett, Ewan Christian Brew, to Hydroconic Limited. Propulsive systems for vessels. 3,457,891, 7-29-69, Cl. 114-163.
Clark, Roy, to Polymer Corporation Limited. Cutting block compositions containing trans-1-4 polymers of isoprene. 3,459,089, 8-5-69, Cl. 83-568.
Clark, Samuel M.: *See—*
Frand, Erwin A.; and Clark, Samuel M.,3,457739.
Clark, Sidney B., to Tee-Pak, Inc. Dyeing of cellulose casing. 3,438,071, 4-15-69, Cl. 8-158.
Clark, Theodore V. Miniaturized table tennis game with captive ball. 3,477,717, 11-11-69, Cl. 273-30.
Clark, Thomas C. Slide binder. 3,477,160, 11-11-69, Cl. 40-152.
Clark, Thomas J.; and Ettinger, Bruce L., to General Electric Company. Deposition of pyrolytic material. 3,462,522, 8-19-69, Cl. 264-39.
Clark, Tommy D.: *See—*
Bilous, Orest; Castrucci, Paul P.; and Clark, Tommy D.,3,421,057.
Clark, Virgl F.Electrician's tool. 3,447,172, 6-3-69, Cl. 7-5.2
Clark, Walter E.: *See—*
Blanco, Raymond E.; Clark, Walter E.; and Yee, William C.,3,463,814.
Clark, Wilfred Neville; Conner, Charles Irvine; and Ogden, Harry, to Ferranti, Limited. Photo-electric control means for the deflection of the electron beam in welding apparatus. 3,471,703, 10-7-69, Cl. 250-234.
Clark, William B., to General Motors Corporation. Countershaft transmission. 3,442,155, 5-6-69, Cl. 74-720.
Clark, William H.; and Hall, Stanley A., to Utah Research and Development Co., Inc. Apparatus for packing and hardening mixtures. 3,434,187, 3-25-69, Cl. 25-41.
Clark, William James Rowley: *See—*
Hobbs, William Edward; and Clark, William James Rowley,3,449,509.
Clark, William James Rowley; and Hobbs, William Edward, to Marconi Company Limited, The. Colour television cameras. 3,471,634, 10-7-69, Cl. 178-5.2
Clark, William Oscar. Marker and retriever unit. 3,425,070, 2-4-69, Cl. 9-9.
Clark, William T., III. Diminutive mechanical method of changing color and color saturation. 3,431,044, 3-4-69, Cl. 350-158.
Clark-Aiken Company, The: *See—*
Moore, Clark A., 3,482,371.
Clarke, Beresford N.: *See—*
Shedd, Wilfred G.; and Clarke, Beresford N.,3,434,703.
Clarke, Chapman & Co. Limited: *See—*
Henderson, Leslie; and Hasson, Leslie, 3,440,393.
Clarke, Christopher H. Segment severing implement. 3,479,740, 11-25-69, Cl. 30-24.
Clarke, David E., to Texas Instruments, Incorporated. Circuit breaker. 3,486,150, 12-23-69, Cl. 337-43.
Clarke, Dennis; and Fowler, Tony J., to Ford Motor Company. Door check assemblies. 3,445,132, 5-20-69, Cl. 292-338.
Clarke Floor Machine Division, Studebaker Corporation: *See—*
Cooper, Frederick G., 3,466,690.
Clarke, Frank H., Jr., to Geigy Chemical Corporation. Oxazinoisoquinoline derivatives. 3,470,171, 9-30-69, Cl. 260-244.
Clarke, Frank H., Jr.; and Block, Fred B., to Geigy Chemical Corporation. Novel 2,6-methanobenzazocines and processes. 3,449,331, 6-10-69, Cl. 260-240.
Clarke, Frank H., Jr.; and Block, Fred B., to Geigy Chemical Corporation. Novel methanobenzazocines and processes. 3,449,332, 6-10-69, Cl. 260-240.
Clarke, Frank H., Jr.: *See—*
Block, Fred B.; and Clarke, Frank H., Jr.,3,480,638.
Clarke, Frederick; and Preston, Stephen. Road excavation cover. 3,426,659, 2-11-69, Cl. 94-35.
Clarke, George Farren, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Electronically scanned storage array pulse radar system. 3,487,408, 12-30-69, Cl. 343-17.2
Clarke, George Frederick; and Roberts, Derek Aubrey, to Bristol Siddeley Engines Limited. Gas turbine compound helicopter power plant. 3,423,048, 1-21-69, Cl. 244-7.
Clarke, Gordon J.: *See—*
Crosby, Noble W.; Clarke, Gordon J.; and Walker, Robert C.,3,454,705.
Crosby, Noble W.; Walker, Robert C.; and Clarke, Gordon J.,3,474,184.
Walker, Robert C.; and Clarke, Gordon J.,3,443,019.
Clarke, Graham Albert Flemming, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,465,677, 9-9-69, Cl. 103-2.
Clarke, James A.; and Lopez, Romeo, to Dow Chemical Company, The. Method for improving the adhesion to metals of thermosettable epoxy resin. 3,451,950, 6-24-69, Cl. 260-2.
Clarke, James F.: *See—*
Weber, Paul W.; Weber, Manfred J.; and Clarke, James F.,3,453,776.

Clarke, Jesse E., to Autoquip Corporation. Turning table for metal coils and the like. 3,476,267, 11-4-69, Cl. 214-1.
Clarke, John F., to Texas Instruments, Incorporated. Means to vapor deposit on a tubular substrate. 3,476,080, 11-4-69, Cl. 118-44.
Clarke, John F., to Texas Instruments, Incorporated. Chill cladding method and apparatus. 3,483,030, 12-9-69, Cl. 117-227.
Clarke, John F., to Texas Instruments, Incorporated. Bonding of metals to form composities. 3,485,995, 12-23-69, Cl. 219-117.
Clarke, John F.; and Adams, Clyde M., Jr., to Texas Instruments, Incorporated. Method and apparatus for coating metallic core with a metallic coating. 3,476,579, 11-4-69, Cl. 117-51.
Clarke, John F.; and Bliss, Bruce J., to Texas Instruments, Incorporated. Manufacture of clad metals. 3,453,849, 7-8-69, Cl. 72-46.
Clarke, John F.; and Coad, Brian C., to Texas Instruments, Incorporated. Clad metal. 3,475,811, 11-4-69, Cl. 29-472.3
Clarke, John L., to Hydrasearch Co., Inc. Universal flange connector. 3,445,127, 5-20-69, Cl. 285-88.
Clarke, John Michael, to National Research Development Corporation. Rotary piston machines. 3,485,218, 12-23-69, Cl. 123-8.
Clarke, John Robin Paul: *See—*
Littlehailes, John David; and Clarke, John Robin Paul,3,459,784.
Clarke, Michael E., to British Oxygen Company Limited, The. Pressure control arrangement. 3,435,840, 4-1-69, Cl. 137-110.
Clarke, P John: *See—*
Kittler, Milton J.; and Clarke, P John,3,460,522.
Clarke, Peter John, to Hovercraft Development Limited. Skirt restoring means for gas-cushion vehicles. 3,444,952, 5-20-69, Cl. 180-127.
Clarke-Pounder, Ian J. H., to Bird Machine Company, mesne. Screening apparatus. 3,437,204, 4-8-69, Cl. 209-273.
Clarke, Ray Allen; and Griffin, Dale Miller, Jr., to Du Pont de Nemours, E. I., and Company. Dye composition. 3,479,192, 11-18-69, Cl. 106-22.
Clarke, Ray Allen: *See—*
Spriestersbach, David Richard; Clarke, Ray Allen; Couper, Monroe; and Patterson, Hugh T.,3,473,998.
Clarke, Robert E., to Marx, Louis, & Co., Inc. Combination headgear and signaling device. 3,435,556, 4-1-69, Cl. 46-227.
Clarke, Robert E. Paper dispenser. 3,484,052, 12-16-69, Cl. 242-55.42
Clarke, Robert L.: *See—*
Saum, Sol J.; and Clarke, Robert L.,3,422,094.
Clarke, Ronald N., to TRW Semiconductors, Inc. High frequency multi-cell transistor structure. 3,452,256, 6-24-69, Cl. 317-235.
Clarke, Rose Ann: *See—*
Sheehan, Desmond; and Clarke, Rose Ann,3,431,264.
Clarke, Stanley Frederick; Radcliffe, Stuart Norman; and Reeves, Anthony John, to Marconi Company Limited, The. Pulse generators. 3,427,555, 2-11-69, Cl. 328-59.
Clarke, Stanley Frederick: *See—*
Mortley, Wilfred Sinden; Radcliffe, Stuart Norman; and Clarke, Stanley Frederick,3,421,112.
Clarke, Wallace Eugene, to Northern Electric Company Limited. Sequence control system and method. 3,445,812, 5-20-69, Cl. 340-147.
Clarke, Walter Wilson Hugh. Electrical analogue deceleration meter. 3,482,453, 12-9-69, Cl. 73-490.
Clarke, Wilfred: *See—*
Jacks, Eric; Feenan, John; and Clarke, Wilfred,3,451,025.
Clarke, William M.: *See—*
Cimerol, Joseph J.; Clarke, William M.; and Denton, William I.,3,431,085.
Clarks Limited: *See—*
Clark, Henry Cecil, 3,426,376.
Freer, Arthur Wilfred, 3,427,673.
Clarkson, Henry N.: *See—*
LaCoste, Lucien J.B.; Clarkson, Henry N.; and Hamilton, George V.,3,474,672.
Clarkson, Robert A. Insulated flexible sub-zero hose. 3,460,579, 8-12-69, Cl. 138-127.
Clarkson, Robert J.; and Miller, Robert, to Uniroyal, Inc. Method and apparatus for texturing yarn. 3,441,989, 5-6-69, Cl. 28-1.
Clarkson, W. J., Limited: *See—*
Bennison, Michael Newstead, 3,483,834.
Clarridge, Ralph E., to International Business Machines Corporation. Variable gain controller. 3,458,821, 7-29-69, Cl. 328-1.
Clarvoe, George W., to Johns-Manville Corporation. Roofing membrane with fibrous reinforcing material. 3,455,076, 7-15-69, Cl. 52-302.
Clary Corporation: *See—*
Amsler, Clyde R.; Brastow, Edgar R.; and Little, Ronald F., 3,446,080.
Brastow, Edgar R.; Voge, Andrew; and Schaberg, Richard R., 3,434,353.
Brastow, Edgar R.; Bjordahl, James; and Little, Ronald F., 3,434,355.
Schaberg, Richard R., 3,440,889.
Voge, Andrew, 3,434,354.
Clary, Harry E., to TRW Inc. Piston with ring groove reinforcement. 3,430,969, 3-4-69, Cl. 277-189.5
Clary, John G., to Addmaster Corporation. Stop pin retracting means for ten key calculating machine. 3,481,536, 12-2-69, Cl. 235-60.
Clasby, David N.; and Hall, Roger D., to Bendix Corporation, The. Cavity backed spiral antenna. 3,441,937, 4-29-69, Cl. 343-895.
Clasen, Carl P.: *See—*
Daglian, John S.; Grace, John W.; and Clasen, Carl P.,3,427,570.
Clasen, Richard D.; and Nichols, Fred B., to Superior Concrete Accessories, Inc. Tie rod assembly for a concrete wall form and with novel spacer members for the form sides. 3,430,914, 3-4-69, Cl. 249-217.
Clashusen, Walter, to Gebruder Honsberg. Automatic adjusting device for chip-removing tools. 3,434,375, 3-25-69, Cl. 77-58.
Class, Jean, to Les Ateliers de Constructions Mercaniques C. & A. Holweg, S.A.R.L. Process and machine for the manufacture of bags having attached handles. 3,439,591, 4-22-69, Cl. 93-35.
Class, Jean, to Les Ateliers de Constructions Mecaniques C. & A. Holweg S.A.R.L. Manufacture of paper and like bags with attached flat handles. 3,464,325, 9-2-69, Cl. 219-101.
Classe, Willy: *See—*
Schnoring, Hildegard; Classe, Willy; Pampus, Gottfried; Schon, Nikolaus; and Witte, Josef,3,450,184.
Classen, Alvin T., to Henningsen Foods, Inc. Egg breaking and separating machine. 3,455,356, 7-15-69, Cl. 146-2.
Classen, Hans-Heinrich, to Rokal G.m.b.H., Messrs. Mixing valves, especially with one grip control. 3,486,510, 12-30-69, Cl. 137-454.5
Clatterbuck, Carroll H.: *See—*
Plitt, Karl F.; and Clatterbuck, Carroll H.,3,427,205.
Clatterbuck, John C. Scooping devices. 3,427,640, 2-11-69, Cl. 37-2.
Clatterbuck, Ronald D. Spiral path with object receiving means. 3,464,700, 9-2-69, Cl. 273-119.
Claude Paz et Visseaux: *See—*
Lauliac, Jean, 3,426,139.
Taxil, Andre, 3,421,804.
Claudel, Bernard: *See—*
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves,3,444,098.
Bressat, Rene; De Calmes, Alain; Claudel, Bernard; and Trambouze, Yves,3,459,682.
Claus, Kurt; and Gehring, Eckard, to Schloemann Aktiengesellschaft. Rolling metal particles to produce compact dense bodies. 3,456,329, 7-22-69, Cl. 29-420.5
Clausen, Fritz: *See—*
Oversohl, Wilhelm; and Clausen, Fritz,3,429,264.
Clausen, Heinrich: *See—*
Rohrborn, Hans-Joachim; Clausen, Heinrich; Grassmann, Wolfgang; and Valet, Gerhard,3,432,324.
Clausen, Rolf; Kleimenhagen, Gunter; and Salje, Ernst, to Heidenreich & Harbeck. Tool changing devices for machine tools. 3,460,412, 8-12-69, Cl. 82-2.
Clausen, Victor H.; Jarvi, Reino A.; and Zweig, Arnold, to Simpson Timber Company. Curtain coating apparatus. 3,451,374, 6-24-69, Cl. 118-7.
Clausen, Victor H.; and Zweig, Arnold, to Simpson Timber Company. Wood veneer joining and handling apparatus. 3,445,313, 5-20-69, Cl. 156-433.
Clausi, Adolph S.; and Vollink, Willard L., to General Foods Corporation. Preparation of ready-to-eat puffed cereal. 3,453,115, 7-1-69, Cl. 99-81.
Clausing, Dale R., to Trane Company, The. Method for constructing a fin-and-tube heat exchanger having a bend formed therein. 3,443,296, 5-13-69, Cl. 29-157.3
Clausing, Dale R., to Trane Company, The. Method for constructing a fin-and-tube heat exchanger having a bend formed therein. 3,468,009, 9-23-69, Cl. 29-157.3
Clauson-Kaas, Niels: *See—*
Lei, Jorgen C. C.; and Clauson-Kaas, Niels,3,471,506.
Clauss, Robert C.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,357.
United States of America,National Aeronautics and Space Administration, Administrator, 3,486,123.
Clauss, Siegbert; Hurst, Kurt; and Ortlieb, Alfred, to Bosch, Robert, G.m.b.H. Recording drum arrangement. 3,466,658, 9-9-69, Cl. 346-138.
Claussen, Lorenz V., to GAF Corporation. Slide changing device. 3,434,229, 3-25-69, Cl. 40-79.
Claussen, Paul-Otto, to Schloemann Aktiengesellschaft. Stretching machines. 3,475,943, 11-4-69, Cl. 72-297.
Clave, Marcel: *See—*
Clave, Serge; and Clave, Marcel,3,450,457.
Clave, Serge; and Clave, Marcel. Extensible periscope. 3,450,457, 6-17-69, Cl. 350-45.
Clavier Corporation: *See—*
Bialo, John M.; Keiser, Edward F.; and Vogelman, Joseph H., 3,424,859.

Clawson, Lawrence G.; and Ziering, Marvin B., to United States of America, Atomic Energy Commission. Determination of vapor quality. 3,430,483, 3-4-69, Cl. 73-29.
Claxton, Clarence W.; and Esmay, Edward N., to Bausch & Lomb, Incorporated. Backlash control means for internal gearing. 3,444,760, 5-20-69, Cl. 74-640.
Claxton, George P.: *See—*
Roberts, Edward M.; Claxton, George P.; and Fallon, Frances G.,3,481,929.
Claxton, Gerald L.: *See—*
Johnson, Wallace J. S.; Fisher, Robert E.; and Claxton, Gerald L.,3,420,046.
Clay, Burton R.; and Haddad, Theodore A., to United States of America, Navy, mesne. Mechanical configuration of laser pump with integral cooling. 3,454,900, 7-8-69, Cl. 331-94.5
Clay, Charles L.: *See—*
Harvey, Herbert; Sims, Martin H.; and Clay, Charles L.,3,432,841.
Clay, Eugene J.: *See—*
Pechacek, Raymond E.; Clay, Eugene J.; and Megow, Lawrence F.,3,423,820.
Clay, Forrest P., Jr.; and Melfi, Leonard T., Jr., to United States of America, National Aeronautics and Space Administration. Ionization-vacuum gauge with all but the end of the ion-collector shielded. 3,466,484, 9-9-69, Cl. 313-7.
Clay, Haile S., to United States of America, Atomic Energy Commission. Centrifugal pump having a shaftless impeller. 3,485,177, 12-23-69, Cl. 103-87.
Clay, Harris A., to Phillips Petroleum Company. High energy fuel and method for recovering same. 3,484,221, 12-16-69, Cl. 48-197.
Clay, Harris A.; and Reinmuth, Gene K., to Phillips Petroleum Company. Recovery of steam condensate. 3,449,244, 6-10-69, Cl. 210-21.
Clay, Howard W.: *See—*
Schmitt, Donald E.; Manzer, Marvin R.; and Clay, Howard W.,3,460,663.
Clay, John A., to Turnbull Marine Design Co., Limited. Ship having split stern bearing. 3,470,842, 10-7-69, Cl. 115-34.
Clay, Paul Eugene, Jr.; and Tucker, Robert Frederic, to American Machine & Foundry Company. Heat recovery device for turbine gases. 3,442,324, 5-6-69, Cl. 165-38.
Clay, Robert A., to Sunland Refining Corporation. Liquid wheel balancing system. 3,463,551, 8-26-69, Cl. 301-5.
Clay, Robert B. Fueled inorganic oxidizer salt aqueous explosive composition containing independently dispersed gas bubbles and method of making same. 3,453,158, 7-1-69, Cl. 149-41.
Clay, Robert B.: *See—*
Cook, Melvin A.; Udy, Lex L.; and Clay, Robert B.,3,473,983.
Clay, Wallace A., to Intermountain Research and Engineering Company, Inc. System for three dimensional panoramic, static- image motion pictures. 3,463,581, 8-26-69, Cl. 352-100.
Clay-Adams, Inc.: *See—*
Bernstein, Richard K.; and Spat, Melvin, 3,481,712.
Morrill, Vaughan, Jr., 3,441,384.
Claybaugh, Billy E.; Griffin, John R.; and Watson, Albert T., to Esso Research and Engineering Company. Process for broadening the molecular weight distribution polymers. 3,472,829, 10-14-69, Cl. 260-93.7
Claybourn, Glen L., to Westinghouse Electric Corporation. Bus-bar supports. 3,467,766, 9-16-69, Cl. 174-100.
Clayer, Arlette: *See—*
Agneray, Louis; Bruni, Maurice; and Clayer, Arlette,3,482,881.
Clayg Corporation, The: *See—*
Allender, Forrest R., 3,435,808.
Claypoole, Stewart A.; and Mertsoc, Martin M., to Corning Glass Works. Method of attaching leads to electrical components. 3,439,395, 4-22-69, Cl. 29-25.42
Claypoole, Stewart A.: *See—*
Asher, John W.; and Claypoole, Stewart A.,3,437,736.
Clayson N.V.: *See—*
DeCoene, Frans J., 3,477,599.
Clayton and Lambert Manufacturing Company: *See—*
Francis, James H., 3,449,840.
Clayton, Colin G.; and Spackman, Ramon. Radioisotope injection device for measurement of fluid flow. 3,477,461, 11-11-69, Cl. 137-599.1
Clayton Corporation: *See—*
Gross, Jerome A., 3,450,314.
Gross, Jerome A., 3,456,846.
Hug, Richard C., 3,438,408.
Hug, Richard C., 3,438,610.
Huling, James K., 3,447,779.
Huling, James K.; Gross, Jerome A.; and Hug, Richard C., 3,462,047.
Clayton, David P.: *See—*
Skinner, Kenneth R.; and Clayton, David P.,3,447,131.
Clayton Dewandre Company Limited: *See—*
Page, Wilbur M.; and Crust, Frank E., 3,456,990.
Page, Wilbur M.; and Coupland, Ralph, 3,472,282.
Clayton, Erith T., to Tainton Company, The. Metal flake. 3,471,308, 10-7-69, Cl. 106-290.
Clayton, Erith T., to Penn Plate, Inc. Mechanical plating. 3,479,209, 11-18-69, Cl. 117-109.
Clayton, Glen G. Cleaning assembly. 3,425,490, 2-4-69, Cl. 166-205.
Clayton, Lorimer, Jr., to Scientific-Atlanta, Inc. Circuit for controlling a clutch drive assembly on a drive motor. 3,471,751, 10-7-69, Cl. 317-137.
Clayton Manufacturing Company: *See—*
Cline, Edwin L., 3,443,427.
Cline, Edwin L., 3,453,874.
Clayton, Robert E.; and McGovney, Clarence L., to Esso Research and Engineering Company. Method and apparatus for coating textile filaments. 3,460,978, 8-12-69, Cl. 117-115.
Clayton, Robert E.: *See—*
Vanderbilt, Byron M.; and Clayton, Robert E.,3,443,620.
Clayton, Robert H., to International Telephone and Telegraph Corporation. Hybrid deflection image dissector having concave deflection plates converging at horizontal edges of resolving apertures. 3,432,711, 3-11-69, Cl. 313-79.
Clayton, Robert H., to International Telephone and Telegraph Corporation. Low distortion phototube. 3,436,551, 4-1-69, Cl. 250-213.
Clayton, Robert H., to International Telephone and Telegraph Corporation. Camera tube having a variable resolving aperture. 3,441,786, 4-29-69, Cl. 315-11.
Clayton, Robert H., to International Telephone and Telegraph Corporation. Image dissector tube and optical system therefor. 3,448,210, 6-3-69, Cl. 178-7.2
Clayton, Robert H.; and Eberhardt, Edward H., to International Telephone and Telegraph Corporation. Circular electron multiplier and permeable anode. 3,454,809, 7-8-69, Cl. 313-104.
Clayton, Robert H.: *See—*
Wolfgang, Lozure G.; Carlo, Donald R.; and Clayton, Robert H.,3,436,590.
Clayton Specialties, Inc.: *See—*
Walters, Clayton T., 3,421,701.
Clayton, William H., Jr., to Combustion Engineering, Inc. Recirculating type once-through steam generator. 3,467,067, 9-16-69, Cl. 122-33.
Clayton, William J.; Miller, Robert J.; and Smith, Clair C., to Mobil Oil Corporation, mesne. Quilted film process. 3,466,212, 9-9-69, Cl. 156-199.
Claytor, Richard N.; and Emery, Frank E., to Texas Instruments, Incorporated. Solid state traveling wave amplifier. 3,436,666, 4-1-69, Cl. 330-5.
Clean Air Controls, Inc.: *See—*
Moushegian, Harry; and St. Cyr, Augustine L., 3,482,532.
Cleanometer Corporation: *See—*
Anderson, John Lynde, 3,445,657.
Clear Air Waste Reduction: *See—*
Andersen, Lester Hans, 3,447,287.
Clear Hooters Limited: *See—*
Snow, John Douglas, 3,420,448.
Clear-Air Waste Reduction, Inc.: *See—*
Andersen, Lester H., 3,451,364.
Clearman, Jack F.; and Barnard, Walter C., to Whirlpool Corporation. Dish holding rack. 3,433,363, 3-18-69, Cl. 211-41.
Clearview Aluminium Windows Pty., Limited: *See—*
Agnew, Arthur Francis, 3,470,934.
Cleary, James M., to Atlantic Richfield Company. Underwater storage reservoir. 3,438,204, 4-15-69, Cl. 61-0.5
Cleary, James W., to Phillips Petroleum Company. Copolymers of 4-methyl-1-pentene with lower 1-olefins. 3,457,246, 7-22-69, Cl. 260-88.2
Cleary, Robert D.: *See—*
Noddings, Charles R.; and Cleary, Robert D.,3,432,571.
Noddings, Charles R.; Cleary, Robert D.; and Gates, Ronald G.,3,459,815.
Cleary, Thomas F., to Centerchem Inc.Production of 2,2'-methylene bis (3,4,6- trichlorophenol). 3,456,020, 7-15-69, Cl. 260-619.
Cleary, W. A., Corporation: *See—*
Cleary, William A.; and Sartoretto, Paul A., 3,440,055.
Cleary, William A.; and Sartoretto, Paul A., to Cleary, W. A., Corporation. Novel lecithins and chocolate containing the same. 3,440,055, 4-22-69, Cl. 99-23.
Cleaver, Charles Spencer: *See—*
Brasen, Wallace Raymond; and Cleaver, Charles Spencer,3,467,635.
Cleaver, Denis: *See—*
Evans, Arthur Wallace; and Cleaver, Denis,3,429,665.
Cleaver, Denis, to British Titan Products Company Limited. Plasma producing apparatus. 3,428,771, 2-18-69, Cl. 219-10.51
Cleaver, Denis, to British Titan Products Company Limited. Oxides. 3,438,720, 4-15-69, Cl. 23-1.
Weinberg, Felix Jiri; Howden, Derek; and Cleaver, Denis,3,434,950.
Cleaver-Brooks Company: *See—*
Gething, Frank, 3,438,719.
Cleeves, Vincent F., to McDonnell Douglas Corporation, mesne. Means and method for minimizing bleed air contamination. 3,446,425, 5-27-69, Cl. 230-114.

Clegg, Charles Alan, to Clairpol (Machines) Limited. Platen assembly and a conveyor system utilising the same. 3,459,288, 8-5-69, Cl. 198-19.

Clegg, Douglas: *See—*
Holm, William Z.; Clegg, Douglas; and Illia, Oliver C.,3,448,725.

Clegg, Jesse M., to Swope, Lenora, Inc. Medicine feeder. 3,426,755, 2-11-69, Cl. 128-252.

Clegg, John Brian; and Elliott, Leonard Godfrey, to Glaxo Laboratories Limited. Process of preparing vitamin-containing gelled aqueous colloid beads. 3,445,563, 5-20-69, Cl. 424-35.

Cleland, Charles E., to Continental Machines, Inc. Remotely controlled prime mover. 3,441,056, 4-29-69, Cl. 137-625.65

Cleland, Charles E.; and Connoy, Eugene N., to Continental Machines, Inc. Precision band type cutting machine. 3,452,734, 7-1-69, Cl. 125-21.

Cleland, Charles E.: *See—*
Wilkie, James W.; and Cleland, Charles E.,3,474,693.

Cleland, David Blackhall, to Imperial Chemical Industries Limited. Detonator locating device. 3,446,047, 5-27-69, Cl. 72-56.

Cleland, Marshall R.; and Thompson, Chester C., Jr., to Radiation Dynamics, Inc. Positive ion source for use with duoplasmatron. 3,458,743, 7-29-69, Cl. 313-63.

Clelland, Patrick J. Horizontal drill slide and reconveyor for installing underground lines. 3,451,491, 6-24-69, Cl. 173-44.

Clem, Arthur G., to American Colloid Company. Moisture impervious deck construction. 3,466,827, 9-16-69, Cl. 52-446.

Clem, Arthur G., to American Colloid Company. Exothermic metallurgical charges. 3,467,172, 9-16-69, Cl. 164-338.

Clem, Everett W. Carton blank gluing apparatus. 3,447,508, 6-3-69, Cl. 118-221.

Clemar Manufacturing Corporation: *See—*
Hinz, Walter W.; and Marandi, Ali, 3,454,032.
Marandi, Ali, 3,439,895.
Sherwood, John F., 3,472,268.
Sherwood, John F., 3,472,479.

Clemens, Anton Hubert, to Miles Laboratories, Inc. Peristaltic pump. 3,447,478, 6-3-69, Cl. 103-149.

Clemens, David H.: *See—*
Glavis, Frank J.; Clemens, David H.; and McDonnell, Roger P.,3,442,799.
Preuss, Albert F.; White, Harry J.; and Clemens, David H.,3,448,049.

Clemens, Ogden A.; Schreuder, Thomas R.; and Panek, Mitchell W., to Swift & Company. Interleaving of food slices. 3,481,746, 12-2-69, Cl. 99-107.

Clemenson, Raymond C. Valve for fuel storage tanks. 3,458,085, 7-29-69, Cl. 220-86.

Clement, Carl J., to Spectra-Physics, Inc. Kinematic mounting structure for laser resonator. 3,440,563, 4-22-69, Cl. 331-94.5

Clement, Carrol O. Dispenser for powdered and granular material. 3,458,091, 7-29-69, Cl. 222-349.

Clement, Finn; and Cope, Paul E., to Procter & Gamble Company, The. Coated collapsible tubes. 3,441,057, 4-29-69, Cl. 138-139.

Clement, Frank J., to Bell Telephone Laboratories, Incorporated. Conference telephone system. 3,437,758, 4-8-69, Cl. 179-1.

Clement, George F.; Compton, Harry B.; Stagg, Uberto K., Jr.; and Zebe, Charles W., to Bell Telephone Laboratories, Incorporated. Telephone line concentrator priority call system. 3,441,681, 4-29-69, Cl. 179-18.

Clement, Ira T.: *See—*
Aungst, David C.; and Clement, Ira T.,3,445,552.

Clement, Ira T.; and McCaw, Walter J., to Pennsylvania Fluorocarbon Company, Inc. Process for making corrugated tubing. 3,453,359, 7-1-69, Cl. 264-322.

Clement, J. W., Company: *See—*
Beacham, Francis W., 3,442,211.
Bushnell, Thomas W., 3,446,104.

Clement, Jean Max, to Solvay & Cie. Process for the adjustment of the distance between the electrodes of operating electrolysis cells. 3,480,528, 11-25-69, Cl. 204-99.

Clement, John C., to Industrial Nucleonics Corporation. Two-dimensional material property control system. 3,431,761, 3-11-69, Cl. 72-9.

Clement, Larry C.; Hammand, Jack; Hulme, Jack R.; and Zimmerman, Carl W., to Halliburton Company. Flowmeter measuring system. 3,425,274, 2-4-69, Cl. 73-194.

Clement, Pierre L.; and Lestienne, Andre F. P., to Eastman Kodak Company. Chromatographic chamber. 3,464,560, 9-2-69, Cl. 210-198.

Clement, Pierre; Gombert, Jean-Marie; and Petit, Rene, to Eastman Kodak Company. Developing method and apparatus for thin layer chromatography. 3,477,950, 11-11-69, Cl. 210-31.

Clement, Ralph C., to I-T-E Circuit Breaker Company. Terminal means. 3,423,724, 1-21-69, Cl. 339-269.

Clement, Richard B.: *See—*
Schermerhorn, Robert S.; and Guerrero, Miguel Carlos, 3,438,649.

Clemente, Carl: *See—*
Muller, Frank H.; and Clemente, Carl,3,443,956.

Clements, Arthur C., to Interstruct Corporation. Building construction. 3,464,176, 9-2-69, Cl. 52-251.

Clements, David H., to Rohm & Haas Company. Linear polymers with polyfunctional telomers and derivatives thereof. 3,476,697, 11-4-69, Cl. 260-22.

Clements, Edwin F. Hydrotherapeutic massage device. 3,426,750, 2-11-69, Cl. 128-66.

Clements, Francis J., to General Electric Company. Support means for a food waste disposer. 3,477,747, 11-11-69, Cl. 285-158.

Clements, Harold John: *See—*
Chalmers, David Arthur; and Clements, Harold John,3,486,138.

Clements, Harry R., to Rohr Corporation. On-site fabricated glass reinforced resin storage tank. 3,470,656, 10-7-69, Cl. 52-2.

Clements, Herbert A., to S.S.S. Patents Limited. Clutch arrangement. 3,433,338, 3-18-69, Cl. 192-67.

Clements, Herbert A.; and Heybourne, Robert H., to S.S.S. Patents Limited. Synchronous self-shifting clutches. 3,458,021, 7-29-69, Cl. 192-67.

Clements, Richard P., to United States of America, Army, mesne. Missile launcher stabilizer. 3,485,137, 12-23-69, Cl. 89-40.

Clements, Thomas Robert: *See—*
Ahearn, John James, Jr.; and Clements, Thomas Robert,3,448,355.

Clements, Warner W. Vehicle horn programmer. 3,453,570, 7-1-69, Cl. 335-93.

Clements, William C., to Armco Steel Corporation. Thin walled pile and method of driving the same. 3,482,409, 12-9-69, Cl. 61-53.5

Clemett, Edwin F., Jr., to McCord Corporation, mesne. Windshield wiper system for automotive vehicles. 3,431,578, 3-11-69, Cl. 15-250.12

Cleminshaw, Douglas R.: *See—*
Bauder, Carl J.; Hart, Charles G.; and Cleminshaw, Douglas R.,3,485,694.

Clemons, Maurice M.: *See—*
Frank, Josef; Clemons, Maurice M.; Huber, John A.; and Baringer, Berlyn E.,3,481,523.

Clemson Industries, Inc.: *See—*
Doyle, Robert P., 3,420,366.
McCollough, John K.; and Murray, John H., 3,457,695.
Mobley, George A., 3,477,193.

Clendaniel, William Richard: *See—*
Danforth, Donald W.; and Clendaniel, William Richard,3,452,587.

Clendenin, Wilbur H.: *See—*
Barrett, Monroe C.; Kenna, Fenton L., Jr.; Nickla, Louis E.; and Clendenin, Wilbur H.,3,455,466.

Clendenin, Wilbur H., to International Harvester Company. Combination elevator. 3,430,757, 3-4-69, Cl. 198-213.

Clendenin, Wilbur H.; Barrett, Monroe C.; Kenna, Fenton L, Jr.; and Fachini, Robert M., to International Harvester Company. Rotary accumulator for automatic bale handling vehicle. 3,446,370, 5-27-69, Cl. 214-6.

Clendinning, William R.; and Eden, Dayton D., to Texas Instruments Incorporated. Integrated electro-optic passive reflective display device. 3,435,445, 3-25-69, Cl. 340-324.

Clerc, Milton C., to Industrial Nucleonics Corporation. Electronic signal amplitude limiter. 3,461,391, 8-12-69, Cl. 328-171.

Clerc, Milton C., to Industrial Nucleonics Corporation. Nuclear radiation gauge system. 3,479,511, 11-18-69, Cl. 250-83.6

Clerk, Ernest J. Refuse bins. 3,450,297, 6-17-69, Cl. 220-36.

Clerk, Robert Cecil. Hydraulic power systems. 3,485,037, 12-23-69, Cl. 60-10.

Cleveland, Clark C., to United States of America, Navy, mesne. Platform style ampule breaker. 3,431,147, 3-4-69, Cl. 136-90.

Cleveland, Clark C., to United States of America, Navy, mesne. Waterproofed electrolyte entry port and fill channel for galvanic battery. 3,432,360, 3-11-69, Cl. 136-90.

Cleveland, Clark C., to United States of America, Navy, mesne. Galvanic battery electrical contact. 3,432,361, 3-11-69, Cl. 136-90.

Cleveland, Clark C.; French, Harry F., deceased (by Cleveland Trust Company, executor); and Pattin, Howard S., to United States of America, Navy, mesne. Setback activated, spin filled galvanic battery. 3,432,359, 3-11-69, Cl. 136-90.

Cleveland Clinic Foundation, The: *See—*
Fenton, Leonard; and Buonocore, Edward, 3,470,869.

Cleveland Container Corp.: *See—*
Stump, Paul W., 3,429,312.

Cleveland Controls, Inc.: *See—*
Pravda, Milton Frank, 3,433,910.

Cleveland, Donald S., to General Electric Company. Anti-hunting circuit for meter relay. 3,479,562, 11-18-69, Cl. 315-159.

Cleveland Equipment Corporation: *See—*
Robinson, Maurice E.; and Jokinen, Robert E., 3,442,189.

Cleveland Fabricating Company, The: *See—*
Wilcox, Dewitt Gifford, 3,442,750.

Cleveland, Floyd M., to General Safety, Inc. Extensible gate for elevator shafts. 3,425,165, 2-4-69, Cl. 49-465.

Cleveland, Floyd M., to General Safety, Inc. Removable stanchion. 3,480,242, 11-25-69, Cl. 248-226.

Cleveland, Floyd M.; and Balma, Peter, to General Safety, Inc. Safety barrier and barrier fence. 3,439,898, 4-22-69, Cl. 256-39.

Cleveland Pneumatic Tool Company, The: *See—*
Bittel, Fred F.; and Jaworski, Stanley F., 3,456,558.
Hartel, Erwin H., 3,462,024.
Cleveland Technical Center, Inc.: *See—*
Crouch, Harold C., 3,432,210.
Harsh, William C., 3,446,731.
Lombardo, Leo R., 3,466,543.
Polk, Edwin C., 3,436,085.
Simmons, Lawrence C., 3,445,648.
Simmons, Lawrence C., 3,465,691.
Cleveland, Thomas H. Body protective device composed of polycarbonate resins admixed with polyolefins and pigments. 3,437,631, 4-8-69, Cl. 260-37.
Cleveland Trencher Company, The: *See—*
Linsay, Michael, 3,477,766.
Penote, Vincent S.; and Rear, Melvin K., 3,421,235.
Penote, Vincent S., 3,445,129.
Cleveland Vibrator Company, The: *See—*
Becker, Kenneth G.; and Crewse, John L., 3,463,458.
Clevenger, Juel D., to Cook Chemical Company. Sprayer and dispenser mechanism. 3,474,938, 10-28-69, Cl. 222-318.
Clevite Corporation: *See—*
Braun, Rudolph A., 3,452,807.
Curran, Daniel R.; Gerber, William J.; and Williams, Alfred L. W., 3,423,700.
Curran, Daniel R.; and Smith, James A., 3,453,458.
Deucher, Theodore F., 3,436,164.
Eastman, David P., 3,427,974.
Hufferd, George H., 3,431,058.
Kusa, Henry J., 3,440,445.
Luce, Betty M.; and Berdan, Betty L., 3,454,376.
Parkinson, David B., 3,463,943.
Parkinson, David B., 3,469,119.
Polder, John M., 3,474,981.
Suzuki, Akio, 3,449,637.
Wilkc, Milton E., 3,427,202.
Clewley, James R.: *See—*
Judge, Donald L.; and Clewley, James R.,3,474,650.
Clewlow, Raymond Kevan: *See—*
Dixon, Olaf George; and Clewlow, Raymond Kevan,3,452,410.
Click, Gaylon T.; and Gray, James M., Jr., to Petro-Tex Chemical Corporation. Flaring tool. 3,466,707, 9-16-69, Cl. 18-19.
Click, Larry S.: *See—*
Stephenson, Kermit Q.; and Click, Larry S.,3,460,493.
Cliff, Rodger A., to United States of America, National Aeronautics and Space Administration. Digitally controlled frequency synthesizer. 3,464,018, 8-26-69, Cl. 328-61.
Cliffgard, Arnie L., to Beckman Instruments, Inc. Meter and alarm circuit including switching means for measuring either of two potentials and amplifier triggering means for comparing the two potentials. 3,444,467, 5-13-69, Cl. 324-133.
Cliffgard, Arnie L.; and Boynton, David G., to Beckman Instruments, Inc. Voltage-to-current converter for use with measuring instruments. 3,440,518, 4-22-69, Cl. 323-4.
Clifford, Alfred T.: *See—*
Reynolds, Linton C.; Clifford, Alfred T.; Fooshe, Wesley K., Jr.; and Thomson, Stewart M.,3,425,856.
Clifford, Daisy E. Self-storing hair-clip device for hair rollers. 3,469,585, 9-30-69, Cl. 132-40.
Clifford, Earl W.: *See—*
Phlipot, James R.; Gill, Lawrence H.; and Clifford, Earl W.,3,480,026.
Clifford, Joseph, to Honeywell Inc. Gas change-over adjustment mechanism for pressure regulators. 3,453,903, 7-8-69, Cl. 74-526.
Clifford, Robert S., to Glen-Mar Door Manufacturing Company. Door dividing machine. 3,421,556, 1-14-69, Cl. 144-3.
Clifford, Warren E., to Kaiser Aluminum & Chemical Corporation. Method of synthesis of alkali metal salts. 3,443,889, 5-13-69, Cl. 23-64.
Clift, Mason A., Jr.: *See—*
Peters, James; Clift, Mason A., Jr.; Stagg, Theodore B., Jr.; and Davis, Francis E., Jr.,3,469,111.
Clifton, Edwin R.: *See—*
Parson, Ralph D.; Clifton, Edwin R.; and Jonz, John P.,3,440,749.
Clifton, Richard: *See—*
Averill, William D., 3,431,546.
Climabec Inc.: *See—*
Fortier, Roland, 3,457,159.
Fortier, Roland, 3,457,160.
Climic, Ian E.: *See—*
Bridges, Trevor Frederick; and Climic, Ian E.,3,467,062.
Clinard, Ralph H., Jr.: *See—*
Canup, Robert E.; and Clinard, Ralph H., Jr.,3,483,371.
Clinc, Carl E., to General Motors Corporation. Refrigerating apparatus. 3,468,105, 9-23-69, Cl. 55-269.
Cline, Edwin L.; to Clayton Manufacturing Company. Roll brake and vehicle wheel lift for chassis dynamometers. 3,443,427, 5-13-69, Cl. 73-117.
Cline, Edwin L., to Clayton Manufacturing Company. Apparatus for controlling the characteristics of friction type power absorption devices. 3,453,874, 7-8-69, Cl. 73-135.
Cline, Harvey E., to General Electric Company. Process for producing cobalt-aluminum bodies. 3,429,697, 2-25-69, Cl. 75-170.
Cline, Jack V., to Tee-Pak, Inc. Food display package. 3,463,305, 8-26-69, Cl. 206-56.
Cline, Jack V. Food display package. 3,469,682, 9-30-69, Cl. 206-56.
Cline, Jerome F., to Jeffrey Galion Manufacturing Company. Conveying means for delivering material at a substantially constant rate. 3,468,456, 9-23-69, Cl. 222-55.
Cline, Robert A.: *See—*
Tonjes, Burl D., 3,481,468.
Cline, Robert S. Adjustable door frame. 3,420,003, 1-7-69, Cl. 49-505.
Cline, Wallace Dean. Theft prevention system. 3,484,775, 12-16-69, Cl. 340-280.
Clingman, William H., Jr., to Texas Instruments, Incorporated. Voltage switching apparatus for color kinescopes. 3,424,939, 1-28-69, Cl. 315-14.
Clinical Research Institute, Inc.: *See—*
Hookman, Perry, 3,448,188.
Clinton, Edwin T.; and Kramcsak, Michael, Jr., to Steward-Warner Corporation. Caster seal. 3,479,680, 11-25-69, Cl. 16-21.
Clinton, Raymond O., to Sterling Drug Inc. 2-Isonitroso-3-oxo steroids. 3,431,286, 3-4-69, Cl. 260-397.4
Clinton, Raymond O., to Sterling Drug Inc.Steroido[,4-c]pyrazoles of the 5α-and 5β-and rostane series. 3,458,504, 7-29-69, Cl. 260-239.5
Clinton Silk Mill, Inc.: *See—*
Hampson, Clinton W., 3,460,585.
Clinton, William P.; Mahlmann, James; and Ponzoni, George B. Freeze-drying of granular coffee extract. 3,438,784, 4-15-69, Cl. 99-71.
Clipper Manufacturing Company, Inc.: *See—*
Pro, George M., 3,429,554.
Clissett, Kenneth E.: *See—*
Lierley, John T.; and Clissett, Kenneth E.,3,444,494.
Clites, Roy J.; and Pflueger, Phillip G., to Sylvania Electric Products, Inc. Phase modulator for reducing keying transients. 3,454,904, 7-8-69, Cl. 332-16.
Cliver, Lawrence G., to Ethyl Corporation. Process for manufacture of tetraalkyllead and reclamation of by-product lead. 3,452,069, 6-24-69, Cl. 260-437.
Clock, Gerald E., to Dow Chemical Company, The. Process for coating glass electronic vacuum tubes. 3,471,317, 10-7-69, Cl. 117-94.
Clocker, Edwin T., to Ashland Oil & Refining Company. Preparation of halogenated olefin polymers using gaseous phase polymerization in the presence of a carbonyl initiator. 3,475,306, 10-28-69, Cl. 204-159.23
Cloninger, Vernon W. Ignition spark tester including compression release vent. 3,480,853, 11-25-69, Cl.
Cloostermans-Huwaert, Desire Coleta. Machine for the production of ropes and strands. 3,456,433, 7-22-69, Cl. 57-59.
Clopay Corporation: *See—*
Gosshing, Robert C., 3,484,910.
Trounstine, Henry P.; and McCauley, Thomas M., 3,484,835.
Cloran, Thomas S., to Crucible Inc. Method for removing oxides from alloy powder. 3,476,548, 11-4-69, Cl. 75-0.5
Close, Albert R., to Ford Motor Company. Seat back latch mechanism. 3,433,524, 3-18-69, Cl. 296-65.
Close, Garth, to United Steel and Wire Company. Supermarket construction. 3,437,177, 4-8-69, Cl. 186-1.
Close, Garth, to United Steel and Wire Company. Grocery cart with front opening gate. 3,446,315, 5-27-69, Cl. 186-1.
Close, Garth, to United Steel and Wire Company. Lift unloader grocery cart. 3,456,763, 7-22-69, Cl. 186-1.
Close, Garth, to United Steel and Wire Company. Cart removal device. 3,473,484, 10-21-69, Cl. 104-162.
Close, Garth, to United Steel and Wire Company. Grocery store checkstand. 3,476,215, 11-4-69, Cl. 186-1.
Close, Garth: *See—*
Ruttenberg, Harold J.; and Close, Garth,3,437,176.
Close, Keith E., to Sperry Rand Corporation. Threshold detector employing a shunt connected tunnel diode. 3,453,448, 7-1-69, Cl. 307-235.
Close, Patrick B.: *See—*
Breidenbach, Victor S.; and Close, Patrick B.,3,444,390.
Close, Robert A., to General Motors Corporation. Wiper arm carried water nozzle. 3,448,482, 6-10-69, Cl. 15-250.04
Close, Ross A. Automatic firearm. 3,424,053, 1-28-69, Cl. 89-185.
Close, Sam. Replaceable medium, extended area filter unit. 3,486,626, 12-30-69, Cl. 210-232.
Closmann, Philip J., to Shell Oil Company. Method of increasing the volume of a permeable zone within an oil shale formation. 3,478,825, 11-18-69, Cl. 166-36.

Closmann, Philip J.; and Ode, Helmer, to Shell Oil Company. Method for creating permeable fragmented zone within an oil shale formation. 3,448,801, 6-10-69, Cl. 166-247.
Closs, George M.; and Dougherty, Patrick F., to Sun Oil Company. Storage of normally gaseous material in subterranean caverns. 3,464,219, 9-2-69, Cl. 62-45.
Closson, Rex D.; and Ihrman, Kryn G., to Ethyl Corporation. Process for preparing carboxylates from olefin halides and carbon monoxide. 3,457,299, 7-22-69, Cl. 260-486.
Closson, Rex D.: *See—*
Napolitano, John P.; and Closson, Rex D.,3,449,455.
Closures, Inc.: *See—*
Hugus, James G., 3,460,602.
Cloud, Charles E. Making individual condiment packages. 3,426,505, 2-11-69, Cl. 53-184.
Cloud, Charles E.; King, Richard G.; and George, James R., to Cloud Machine Corporation. Packaging machine. 3,478,492, 11-18-69, Cl. 53-266.
Cloud, Charles E.; and Purvinis, Richard F., to Cloud Machine Corporation. Manufacture of sealed packages from strip stock. 3,453,799, 7-8-69, Cl. 53-29.
Cloud Machine Corporation: *See—*
Cloud, Charles E.; and Purvinis, Richard F., 3,453,799.
Cloud, Charles E.; King, Richard G.; and George, James R., 3,478,492.
Cloud, Robert E. Method and means of cementing a casing into a well structure. 3,420,299, 1-7-69, Cl. 166-29.
Cloud, Samuel E. Spherical vehicle. 3,428,015, 2-18-69, Cl. 115-1.
Clough, Donald Keighley, to Sandoz Ltd., also known as Sandoz A.G. Dyeing of hydrophobic materials. 3,441,363, 4-29-69, Cl. 8-39.
Clough, Donald Keighley, to Sandoz Ltd., (also know as) Sandoz A.G. Process for dyeing, padding or printing. 3,462,236, 8-19-69, Cl. 8-54.
Clough, Donald Keighley, to Sandoz Ltd., also known as Sandoz A.G. Process for dyeing or printing of polyamide fibres. 3,477,800, 11-11-69, Cl. 8-54.
Clough, Graham: *See—*
Waldhuter, Werner; Rubel, Werner; and Clough, Graham,3,461,069.
Clough, Thomas J., to Sinclair Research, Inc. Lubricating oil composition containing condensation product of polyamine and polymeric ketone. 3,479,291, 11-18-69, Cl. 252-51.5
Clough, Thomas J., to Sinclair Research, Inc. Polymeric additives for lubricating oil. 3,483,125, 12-9-69, Cl. 252-51.5
Clough, Thomas J.; and Young, David W., to Sinclair Research, Inc. Process for polymerizing normal mono-1-alkenes. 3,450,786, 6-17-69, Cl. 260-669.
Clough, Thomas J.: *See—*
Young, David W.; and Clough, Thomas J.,3,448,050.
Cloup, Francis J. G., to Societe dite Promat. Digitally controlled positioning device. 3,427,518, 2-11-69, Cl. 318-18.
Cloup, Francis Jean Gabriel, to Promat S. A. R. L. Combined punching and reaming tool. 3,469,306, 9-30-69, Cl. 29-564.
Cloup, Francis J. Hydraulic punching machine. 3,469,481, 9-30-69, Cl. 83-140.
Clover, Norvin Q., to Fairfield Industries, Inc. Telescoping collapsible platform support. 3,463,265, 8-26-69, Cl. 182-17.
Clovis, James Stanley, to Rohm & Haas Company. Antistatic plastic compositions. 3,454,540, 7-8-69, Cl. 260-86.1
Clovis, Merle A.: *See—*
Elenbogen, Gilbert D.; and Clovis, Merle A.,3,438,782.
Clow Corporation: *See—*
Ligon, Elmer R.; De Gasperi, Frank E.; and Reed, Norman D., 3,454,997.
Clow, William R.: *See—*
Flynn, Daniel M.; and Bandoski, Stanley J., Jr., 3,421,066.
Clow, William R.: *See—*
Flynn, Daniel M.; Bandoski, Stanley, Jr.; and Clow, William R.,3,473,041.
Cloyd, Harold S., to Nosco Plastics, Incorporated. Pallet container. 3,438,544, 4-15-69, Cl. 220-97.
Cloyd, Harold S.; Bernhardt, Charles A.; and Mangold, Robert T., to Nosco Plastics, Incorporated. Plastic case. 3,443,722, 5-13-69, Cl. 220-97.
Cluchey, Edgar C. Wheel alignment checking device. 3,460,264, 8-12-69, Cl. 33-203.17
Cluett, Peabody & Co., Inc.: *See—*
Danahy, Thomas M., 3,481,292.
Denault, Albert P.; Gruber, Lawrence H.; and Morton, Kenneth O., 3,478,939.
Pandell, Nestor W.; and Knebel, Robert W., 3,430,480.
Troope, Walter S.; and Knebel, Robert W., 3,473,877.
Wagar, Albert E.; and Rolfe, Ronald F., 3,485,423.
Cluett, Ronald D.; and Paget, Fredrick W., to Sylvania Electric Products Inc. Regulating system for arc discharge devices having means to compensate for supply voltage and load variations. 3,482,142, 12-2-69, Cl. 315-105.
Clukey, Wayne H.; Albouca, Robert L.; and Clack, Alan V., to Kaiser Aluminum & Chemical Corporation. Carbon anode for aluminum reduction cell. 3,442,786, 5-6-69, Cl. 204-290.
Clukey, Wayne H.: *See—*
Hildebrandt, Richard D.; and Clukey, Wayne H.,3,468,737.
Clune, James P.: *See—*
Matheson, Wilfrid G.; Clune, James P.; and Pricenski, Theodore J.,3,427,421.
Clune, Richard R.; and Field, Harold, to Mallory, P. R., & Co., Inc. Leached amalgamated zinc anode. 3,427,204, 2-11-69, Cl. 136-126.
Clunis, Kenneth, to Minnesota Mining and Manufacturing Company. Thermoplastic recording. 3,427,628, 2-11-69, Cl. 346-1.
Clupak, Inc.: *See—*
Welsh, Hewitt S., 3,454,463.
Clusick, Robert E.: *See—*
Bray, Thomas E.; and Clusick, Robert E.,3,479,517.
Clutch Research and Development Co.: *See—*
Gingery, Wayne Paul, 3,465,860.
Clutsom & Kemp Limited: *See—*
Salway, Keith, 3,464,235.
Clutsom, Fredrick Gerald. Electrical control system for selecting and operating electrical systems. 3,483,435, 12-9-69, Cl. 317-123.
Clyborne, Harry E.: *See—*
Clyborne, Willis D.; and Clyborne, Harry E.,3,438,362.
Clyborne, Willis D. Engine ignition system. 3,472,216, 10-14-69, Cl. 123-148.
Clyborne, Willis D.; and Clyborne, Harry E. Ignition system. 3,438,362, 4-15-69, Cl. 123-146.5
Clyde, Claude R. Cycling valve. 3,459,208, 8-5-69, Cl. 137-119.
Clyde Iron Works, Inc.: *See—*
McManus, Lee C., 3,424,963.
McManus, Lee C., 3,445,749.
Clyman, George R.: *See—*
Frishman, Daniel; and Clyman, George R.,3,447,343.
Clymer, Roger B. Houseboat. 3,434,166, 3-25-69, Cl. 9-1.
Clymin, Michael L., to Conso Engineering Company, mesne. Thermo-adhesive carpet-seaming tape. 3,485,704, 12-23-69, Cl. 161-51.
Clynch, Frank, to Continental Oil Company. Apparatus for supporting marine seismic transducer. 3,452,327, 6-24-69, Cl. 340-7.
Clynch, Frank, to Continental Oil Company. Total recovery core catcher. 3,480,093, 11-25-69, Cl. 175-58.
C&M Industrial Associates, Inc.: *See—*
Catt, Lewis R.; and McCullough, James T., 3,473,485.
CMP Industries, Inc.: *See—*
Griffiths, Emil S., 3,464,817.
Coach and Car Equipment Corporation: *See—*
Bilancia, Raymond A., 3,479,082.
Costin, Robert W., 3,473,776.
Coachmen Industries, Inc.: *See—*
Corson, Claude E., 3,486,785.
Coad, Brian C., to Texas Instruments Incorporated. Method and apparatus for coating metal strip. 3,429,734, 2-25-69, Cl. 117-38.
Coad, Brian C., to Texas Instruments, Incorporated. Manufacture of interiorly coated tubing. 3,457,626, 7-29-69, Cl. 29-429.
Coad, Brian C., to Texas Instruments, Incorporated. Continuous chill casting of cladding on a continuous support. 3,470,939, 10-7-69, Cl. 164-275.
Coad, Brian C.: *See—*
Clarke, John F.; and Coad, Brian C.,3,475,811.
Coad, Terrence M., to Snaplite Displays, Inc. Illuminated display sign. 3,447,253, 6-3-69, Cl. 40-130.
Coakley, James L., to Abex Corporation. Solenoid controlled servovalve with lineal output. 3,424,183, 1-28-69, Cl. 137-83.
Coakley, James L., to Abex Corporation. Electromechanical driver for hydraulic valve and the like. 3,473,547, 10-21-69, Cl. 137-83.
Coakley, James L.; and Kubilos, Charles A., to Abex Corporation. Servovalve construction. 3,437,101, 4-8-69, Cl. 137-83.
Coakley, James L.; and Kubilos, Charles A., to Abex Corporation. Servovalve Construction. 3,447,111, 5-27-69, Cl. 335-230.
Coal Industry (Patents) Limited: *See—*
Martin, David James, 3,487,366.
Sims, Raymond Bernard, 3,455,544.
Coal Research Institute: *See—*
Kuribayashi, Sadatomo; Tayama, Eisei; Mishima, Makio; and Yuzawa, Syuichi, 3,451,379.
Coan, Edward M. Radiation sensitive apparatus for sensing and counting. 3,422,274, 1-14-69, Cl. 250-224.
Coast Carton Corporation: *See—*
Franck, Jack, 3,464,544.
Coast Elevator Company: *See—*
Risk, Daniel W., 3,471,119.
Coast, Geoffrey: *See—*
Prince, Norman; and Coast, Geoffrey,3,486,976.
Coast Manufacturing & Supply Company: *See—*
Merritt, James A.; and Wedin, James A., 3,481,428.
Coast Metals, Inc.: *See—*
Cape, Arthur T., 3,425,828.
Cape, Arthur T., 3,436,512.

Cape, Arthur T., 3,437,480.
Cape, Arthur T., 3,441,215.
Cape, Arthur T., 3,475,165.
Cape, Arthur T., 3,483,724.
Foerster, Charles V., 3,444,613.
Hawk, Elwin A., Sr., 3,436,019.

Coastal Dynamics Corporation: *See*—
Curl, Gerald A., 3,450,870.
Krantz, John D., 3,430,224.
Krantz, John D., 3,436,983.
Krantz, John D., 3,476,144.
Krantz, John Daniel, 3,477,761.

Coated Products, Inc.: *See*—
Vigneault, John H., 3,465,627.

Coates, Arthur D.: *See*—
Swisher, Joe A.; and Coates, Arthur D.,3,475,607.

Coates Brothers & Company Limited: *See*—
Wilson, Alec Frank, 3,420,789.

Coates, Carlton E., to Ashland Oil & Refining Company. Electrophoretic coating bath and process wherein solvent and base concentrations are controlled. 3,463,712, 8-26-69, Cl. 204-181.

Coates, Harold; Brown, David Albert; and Peters, Francis Michael, to Electric Reduction Company of Canada Ltd. Silicate resins. 3,429,851, 2-25-69, Cl. 260-46.5

Coates, Harold; and Hoye, Peter Albert Theodore, to Albright & Wilson (Mfg.) Limited. Preparation of alkyltin chlorides, bromides and iodides. 3,446,826, 5-27-69, Cl. 260-429.7

Coates, Herbert W.: *See*—
Hamilton, Milon J.; Baigas, Joseph F., Jr.; Haynes, John T.; and Coates, Herbert W.,3,459,631.

Coates, Joseph F.: *See*—
Wakeman, Reginald L.; and Coates, Joseph F.,3,427,316.
Wakeman, Reginald L.; and Coates, Joseph F.,3,431,265.
Wakeman, Reginald L.; and Coates, Joseph F.,3,435,039.

Coates, Willis W. Apparatus for spreading tubular fabric. 3,436,796, 4-8-69, Cl. 26-55.

Coats & Clark, Inc.: *See*—
Morin, Louis H., 3,420,929.
Morin, Louis H., 3,423,792.
Morin, Louis H., 3,435,489.
Morin, Louis H., 3,452,805.

Coats, Carlton E., to Ashland Oil & Refining Company. Water dispersible coating composition and use of same in electrocoat painting. 3,428,586, 2-18-69, Cl. 260-22.

Coats, Carlton E., to Ashland Oil & Refining Company. Electrocoating compositions comprising aromatic amine amidated drying oil copolymer-maleic anhydride adducts. 3,428,589, 2-18-69, Cl. 260-23.7

Coats, Carlton E., to Ashland Oil & Refining Company. Process for producing monocarboxylic acid modified alkyd resins. 3,480,575, 11-25-69, Cl. 260-22.

Coats Company, Inc., The: *See*—
Scott, Ray A., 3,474,840.
Strang, Elmer J.; and Swanson, Floyd R., Jr., 3,439,399.

Coats, Fred Haden, Jr., to Du Pont de Nemours, E. I., and Company. Nonaqueous lubricating composition for nylon tire cord yarn. 3,446,734, 5-27-69, Cl. 252-8.8

Coats, Hugh L., Jr.: *See*—
McMullen, Thomas J., Sr.; McMullen, Thomas J., Jr.; and Coats, Hugh L., Jr.,3,483,064.

Coats, William C.; and Moyer, Edward J., to Caterpillar Tractor Company. Hydropneumatic suspension system. 3,464,511, 9-2-69, Cl. 180-9.54

Cobarg, Claus Christian, to Braun Aktiengesellschaft. Ventilator system and vapor dispenser. 3,442,197, 5-6-69, Cl. 98-30.

Cobaugh, George D.: *See*—
Cobaugh, George D.; Smoot, Thomas William; and Cobaugh, George D.,3,449,084.

Cobaugh, George D.; Smoot, Thomas William; and Cobaugh, George D., to Dresser Industries, Inc. Lining for secondary ammonia reformer. 3,449,084, 6-10-69, Cl. 23-277.

Cobaugh, Robert Franklin: *See*—
Hammel, Kemper Martel; and Cobaugh, Robert Franklin,3,474,394.

Cobaugh, Robert Franklin, to AMP Incorporated. Apparatus for making electrical connections. 3,440,723, 4-29-69, Cl. 29-628.

Cobaugh, Robert Franklin, to AMP Incorporated. Tool for making electrical connections having insulation scraping means. 3,471,916, 10-14-69, Cl. 29-203.

Cobb, James Stanley, Jr., to Du Pont de Nemours, E. I., and Company. Spinneret. 3,456,292, 7-22-69, Cl. 18-8.

Cobb, James W., to AEL Development and Research, Inc. Process and machinery for making paper sticks. 3,452,650, 7-1-69, Cl. 93-1.

Cobb, Jesse M.: *See*—
Soreng, John E.; and Cobb, Jesse M.,3,472,975.

Cobb, Raymond L.: *See*—
Reinert, Andrew J.; Cantrel, Kenneth E.; and Cobb, Raymond L...3.475.539.

Cobb, Richard O.; and Skov, Raymond A., to International Business Machines Corporation. Display apparatus. 3,437,869, 4-8-69, Cl. 315-18.

Cobb, Thomas F.: *See*—
Belko, William R., Jr.; Cobb, Thomas F.; and Varsane, Robert G.,3,466,513.

Cobb, Walter L. Method for embroidering tufts. 3,460,495, 8-12-69, Cl. 112-93.

Cobb, William Reginald. Chairs equipped with legrests or footrests. 3,429,612, 2-25-69, Cl. 297-75.

Cobb, William R., to Westinghouse Electric Corporation. Roller structure for supporting appliances and the like. 3,437,346, 4-8-69, Cl. 280-43.2

Cobbledick, David S., to Allied Chemical Corporation. Novel organic polyol compositions and filled non-cellular polyurethanes prepared therefrom. 3,429,855, 2-25-69, Cl. 260-77.5

Cobbledick, David S., to Allied Chemical Corporation. Novel polyol compositions and filled polyurethanes prepared therefrom. 3,470,121, 9-30-69, Cl. 260-18.

Cobbs, James H.: *See*—
Dellinger, Thomas B.; and Cobbs, James H.,3,474,866.

Cobbs, James H., to Fenix & Scisson, Inc. Retrievable casing foot valve. 3,442,330, 5-6-69, Cl. 166-225.

Cober, Lloyd W., Jr.; and McDaniel, James S., to Du Pont de Nemours, E. I., and Company. Film/netting seal. 3,474,952, 10-28-69, Cl. 229-53.

Coberley, Daniel A.: *See*—
Adamson, Robert G.; Angell, Charles H.; Roote, Jay C.; Hutchison, Joel F.; and Coberley, Daniel A.,3,477,369.

Coberly, Clarence J., to Union Carbide Corporation. Method of operating regenerative furnaces and apparatus therefor. 3,472,907, 10-14-69, Cl. 260-679.

Coberly, Clarence J.; and Brown, Francis Barton, to Kobe, Inc. Method of and apparatus for making up and breaking friction-type rod and tubing joints. 3,451,119, 6-24-69, Cl. 29-446.

Coberly, Clarence J.; and Brown, Francis Barton, to Kobe, Inc. Friction-type joint with uniform wall thickness. 3,476,413, 11-4-69, Cl. 285-332.3

Coberly, Clarence J.; and Kogut, Val, to Union Carbide Corporation. Fuel nozzles for high temperature furnace and method of operating. 3,459,823, 8-5-69, Cl. 260-679.

Cobianchi, John F.: *See*—
Adams, Richard G.; Cobianchi, John F.; and Roth, Alan,3,484,179.

Cobigo, Henri. Automatic sprinkling device. 3,463,401, 8-26-69, Cl. 239-231.

Cobine, James D., to General Electric Company. Gas-free vacuum gap devices and method of preparation thereof. 3,450,928, 6-17-69, Cl. 313-311.

Coblentz, Wesley S.; Paddock, Paul F.; and Smith, Ronald T. Mobile platform construction. 3,437,174, 4-8-69, Cl. 182-16.

Coblenz, Abraham G., to International Rectifier Corporation. Smiconductor wafer forming a plurality of rectifiers. 3,462,655, 8-19-69, Cl. 317-234.

Coblenz, Abraham G., to International Rectifier Corporation. Hollow cylindrical semiconductor device. 3,475,660, 10-28-69, Cl. 317-234.

Coblitz, Sanford E. Cutting element for a pipe-cutting chain. 3,430,830, 3-4-69, Cl. 225-103.

Coburn, Donald G., to Cox Systems Limited. Dental operating units. 3,455,620, 7-15-69, Cl. 312-209.

Coburn, Kenneth E.: *See*—
Basler, Wayne G.; Coburn, Kenneth E.; Greenler, Robert J.; and Thompson, Robert J.,3,481,728.

Coburn Manufacturing Company, Inc.: *See*—
Stith, Joe D., 3,437,753.
Suddarth, Jack M., 3,436,984.
Suddarth, Jack M., 3,449,865.
Suddarth, Jack M., 3,449,866.
Suddarth, Jack M., 3,466,811.
Suddarth, Jack M., 3,468,366.

Coburn, Mathias M., to Du Pont de Nemours, E. I., and Company. Hot-melt bookbinding adhesives modified with a reaction product of hexafluoroacetone. 3,438,921, 4-15-69, Cl. 260-27.

Coburn, Michael D., to United States of America, Atomic Energy Commission. 3-Picrylamino-1,2,4-triazole and its preparation. 3,483,211, 12-9-69, Cl. 260-308.

Coburn, Robert W., Sr.: *See*—
Barnard, Walter C.; and Coburn, Robert W., Sr.,3,459,462.

Coca-Cola Bottling Works Company, The: *See*—
Broetzler, Gustav A., 3,425,187.
Ruffley, Morris F., Jr., 3,436,093.

Coccellato, Marco, 35% to Quaranta, William. Clam opening device. 3,440,684, 4-29-69, Cl. 17-76.

Cocco, Henry A. Tool post and tool holder. 3,425,305, 2-4-69, Cl. 82-36.

Coccoli, Joseph D.; and Koso, Dusan A., to Massachusetts Institute of Technology. Gas ring laser gyroscope system. 3,469,922, 9-30-69, Cl. 356-106.

Cochardt, Alexander W.; and Buttyan, Joseph, to Westinghouse Electric Corporation. Apparatus and process for forming or molding magnetic substances. 3,452,121, 6-24-69, Cl. 264-24.
Cochin, Solomon. Blind man's timepiece. 3,438,195, 4-15-69, Cl. 58-1.
Cochran, Alfred S.; and Sikorski, Frank B., to Automatic Electric Laboratories, Inc. Telephone exchange with interworking of switching units of different types. 3,466,401, 9-9-69, Cl. 179-16.
Cochran, Benjamin T.: *See—*
Fohrmann, Ernest F.; Scoles, David A.; Cochran, Benjamin T.; and Dick, John O.,3,440,961.
Cochran, Charles Norman: *See—*
Stroup, Philip T.; Cochran, Charles Norman; and Stokes, John J., Jr.,3,440,712.
Cochran, Chudleigh B., to Brown, Cecero C. Gas lift well production apparatus. 3,421,449, 1-14-69, Cl. 103-233.
Cochran, Chudleigh B., to Brown Oil Tools, Inc. Pressure differential expanding means for well packers. 3,459,261, 8-5-69, Cl. 166-120.
Cochran, Herman V. Vehicle acceleration indicating device. 3,440,603, 4-22-69, Cl. 340-52.
Cochran, John F., to Driltrol. Stabilizers for drilling strings. 3,482,889, 12-9-69, Cl. 308-4.
Cochran, John M., Jr., to Burlington Industries, Inc. Delay control circuit. 3,475,625, 10-28-69, Cl. 307-293.
Cochran, John M., Jr.: *See—*
Upshur, Littleton; Joy, Raymond D.; and Cochran, John M., Jr.,3,437,799.
Cochran, John T.; and Collins, Gordon D., to United States of America, Atomic Energy Commission. Cold trap filter. 3,483,980, 12-16-69, Cl. 210-131.
Cochran, Kenneth C.: *See—*
Robison, Fred E.; and Cochran, Kenneth C.,3,478,386.
Cochran, Neal P., to United States of America, Interior. Hydrocarbon fuels from coal or any carbonaceous material. 3,477,942, 11-11-69, Cl. 208-10.
Cochran, Roy J.: *See—*
Hackett, Norman H., 3,466,870.
Cochran Western Corporation: *See—*
Duerksen, Arnold, 3,480,295.
Mc Cartney, Duane N.; and Duerksen, Arnold, 3,474,925.
Cochran, William H.; and Deike, Robert F. Reset mechanism for parking meter. 3,486,325, 12-30-69, Cl. 58-142.
Cochrane, Chappelle C., to Nalco Chemical Company. Electrolytic polymerization of maleic anhydride. 3,427,233, 2-11-69, Cl. 204-59.
Cochrane, Hugh M. Coin holder. 3,420,359, 1-7-69, Cl. 206-0.82
Cochrum, William A., to Fastron Company, The. Thread-forming screw and method of making the same. 3,461,470, 8-19-69, Cl. 10-10.
Cock, Donald J.; and Habgood, Gordon A., to Girling, Limited. Means for actuating a friction pad in a disc brake. 3,435,691, 4-1-69, Cl. 74-107.
Cockbill, Michael Henry; and Main, James Thomas, to Hellier, Lionel, Limited. Water-activated ballon inflating device. 3,461,835, 8-19-69, Cl. 116-124.
Cocke, John: *See—*
Bahnsen, Ralph J.; and Cocke, John,3,427,592.
Cocker, John Derek: *See—*
Ritchie, Alexander Crawford; Cocker, John Derek; and Webb, Godfrey Basil,3,481,934.
Cocker Machine and Foundry Company: *See—*
Lofgren, Karl R., 3,438,102.
Cockerell, Christopher Sydney, to Hovercraft Development Limited. Gas-cushion vehicles with multi-stage flexible skirts and attitude correcting means therefor. 3,424,266, 1-28-69, Cl. 180-118.
Cockerell, Christopher Sydney, to Hovercraft Development Limited. Vehicles for travelling over land and/or water having recirculating fluid curtains. 3,442,348, 5-6-69, Cl. 180-130.
Cockerham, Lloyd E., to Commercial Solvents Corporation. Ternary solvent system containing 2-nitropropane for flexographic inks. 3,450,663, 6-17-69, Cl. 260-33.4
Cockerill, Richard, to Bostrom Manufacturing Company Limited. Means for fixing a seat cover to a seat. 3,423,775, 1-28-69, Cl. 5-353.1
Cockerill-Ougree-Providence: *See—*
Levaux, Jean Marie, 3,476,321.
Martelee, Ghislain Antoine Jean-Marie, 3,456,823.
Cockrell, Eldridge H.: *See—*
Ammondson, Clayton J.; Cockrell, Eldridge H.; Silberman, Ira J.; and James, Forrest H., Jr.,3,464,692.
Cockrell, John William: *See—*
Black, Conrad Nagel; and Cockrell, John William,3,457,491.
Cockrell, William D., to General Electric Company. Photoelectric web register control. 3,424,911, 1-28-69, Cl. 250-219.
Cockroft, James B.: *See—*
Edwards, Margaret M.; and Cockroft, James B.,3,420,969.
Cocks, Eric H. Hand-held applicator for hot-melt adhesives. 3,485,417, 12-23-69, Cl. 222-146.
Cocosco, Elizabeta: *See—*
Moscovici, Anuta; Maricuta, Nicolae; and Cocosco, Elizabeta,3,472,623.
Coda, Nello, to Erie Technological Products, Inc. Mounted capacitor with spaced terminal feet. 3,444,436, 5-13-69, Cl. 317-101.
Coda, Severina: *See—*
Bernardi, Luigi; Coda, Severina; Pegrassi, Lorenzo; and Suchowsky, Giselbert Karl,3,427,313.
Codex Corporation: *See—*
Gallager, Robert G., 3,469,236.
Kohlenberg, Arthur, 3,447,132.
Massey, James Lee, 3,439,334.
Codichini, Joseph J., to Hewlett-Packard Company. Process parameter level sensing device. 3,426,268, 2-4-69, Cl. 323-100.
Codichini, Joseph J., to Hewlett-Packard Company. Control circuit for low noise controlled rectifier systems. 3,444,456, 5-13-69, Cl. 323-22.
Codignola, Franco: *See—*
Costa, Roberto Maria; and Codignola, Franco,3,449,485.
Codina, Jorge G., to Gravimetrics Incorporated. Seismograph. 3,480,908, 11-25-69, Cl. 340-17.
Codman, Daniel S., Jr. Convertible boat hull. 3,475,773, 11-4-69, Cl. 9-1.
Codrington, Robert S.; and Schuster, Nick A., to Schlumberger Technology Corporation, mesne. Detection of oil by nuclear magnetic resonance. 3,456,183, 7-15-69, Cl. 324-0.5
Cody, Joseph P.; and Walker, Dale W., to United States of America, Navy. Portable impact pad. 3,456,910, 7-22-69, Cl. 244-114.
Coe, Benjamin Franklin: *See—*
Booy, Max Lorenz; Coe, Benjamin Franklin; and Stutler, Stephen Charles,3,433,055.
Coe, Beresford, to Rohm & Haas Company. Process for preparing breathable fabric laminates. 3,438,829, 4-15-69, Cl. 156-235.
Coe, Everett L., Jr.: *See—*
Archer, William E.; Coe, Everett L., Jr.; and Reed, Leo O.,3,477,124.
Archer, William E.; Coe, Everett L., Jr.; and Reed, Leo O.,3,485,011.
Coe, Frank R., to Welding Institute, The. Measurement of gases in metals. 3,456,416, 7-22-69, Cl. 53-8.
Coe, Guy R., Jr.: *See—*
Ballard, Doyle R.; and Coe, Guy R., Jr.,3,467,126.
Coe Laboratories, Incorporated: *See—*
Molnar, Eugene J., 3,476,854.
Coe Manufacturing Company, The: *See—*
Calvert, Harry B., 3,455,354.
Holden, Arthur S., Jr.; and Stuenkel, Leon H., 3,474,544.
Coe, Merrill J.: *See—*
Lugt, Thomas Vander; and Coe, Merrill J.,3,438,565.
Coe, Robert S.; and Vogelman, Joseph H. Three-dimensional display apparatus. 3,482,140, 12-2-69, Cl. 315-21.
Coe, Stanley H.: *See—*
Stein, Robert R.; and Coe, Stanley H.,3,463,433.
Coe, Thomas D., to Wakefield Engineering, Inc. Heat transfer apparatus. 3,448,798, 6-10-69, Cl. 165-168.
Coe, William H., to Keystone Consolidated Industries, Inc. Counterbalancing lid support. 3,447,190, 6-3-69, Cl. 16-1.
Coel, Trafford H.; Hanford, Eugene B.; and Stewart, Stanley H., to American Telephone and Telegraph Company. Intercommunication system for school-to-home teaching. 3,423,532, 1-21-69, Cl. 179-1.
Coen, Aldo L. Field structure for magnetic loudspeaker and methods of manufacture. 3,453,400, 7-1-69, Cl. 179-119.
Coen, Edward D., to Smith Kline & French Laboratories. Method of lowering blood pressure. 3,487,154, 12-30-69, Cl. 424-321.
Coen Manufacturing Corporation: *See—*
Voorheis, James T., 3,485,369.
Coenen, Francois: *See—*
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,669.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,670.
Coes, Loring, Jr., to Norton Company. Grinding apparatus. 3,427,754, 2-18-69, Cl. 51-98.
Coes, Loring, Jr., to Norton Company. Vibratory grinding machine. 3,451,171, 6-24-6, Cl. 51-99.
Cofer, Daniel B., to Southwire Company. Method of deforming cast metal. 3,426,568, 2-11-69, Cl. 72-250.
Cofer, Daniel B.; and Bray, Thomas L., to Southwire Company. Casting of molten metal. 3,464,483, 9-2-69, Cl. 164-278.
Cofer, Daniel B.; Ward, George C.; and Bray, Thomas L., to Southwire Company. Vessel positioning means for continuous casting machines. 3,478,813, 11-18-69, Cl. 164-278.
Cofer, Daniel B.; Ward, George C.; Proctor, Dale D.; and Bray, Thoma L., to Southwire Company. Casting machine with concentric channel shaft. 3,454,077, 7-8-69, Cl. 164-278.

Cofer, Daniel B.: *See—*
Ward, George C.; Todd, Chester F.; Proctor, Dale D.; and Cofer, Daniel B.,3,469,620.
Cofer, Larry Wilson: *See—*
DeBuhr, Harold Eugene; and Cofer, Larry Wilson,3,479,894.
Coffee Instants, Inc.: *See—*
Reich, Ismar M.; and Cascione, Alexander S., 3,421,906.
Coffee-Mat Corporation: *See—*
Herman, David; and Small, Sollie W., 3,478,238.
Coffelt, Robert J., to University of California, The Regents of the. Serpentine wine press. 3,446,139, 5-27-69, Cl. 100-118.
Coffer, William E.; Miller, Robert L.; and Shewan, John, to Ref-Con Corporation. Remote reporting system. 3,441,929, 4-29-69, Cl. 340-409.
Coffey, Eugene R. Conduit implant attachment. 3,429,134, 2-25-69, Cl. 61-72.6
Coffey, Robert Stevenson, to Imperial Chemical Industries Limited. Preparation of $IrH_3[P(R)_3]_2$ compounds. 3,458,547, 7-29-69, Cl. 260-429.
Coffey, Ronald B.: *See—*
Edwards, James W.; and Coffey, Ronald B.,3,421,810.
Edwards, James W.; and Coffey, Ronald B.,3,421,811.
Coffield, Robert. Coin security system. 3,455,503, 7-15-69, Cl. 232-1.
Coffield, Thomas H.; and Wollensak, John C., to Ethyl Corporation. Preparation of β-chloroisobutyryl chloride. 3,471,557, 10-7-69, Cl. 260-544.
Coffman, John W., III: *See—*
Watts, Jefferson L.; and Coffman, John W., III,3,449,530.
Coffman, Leroy. Fertilizer spreader attachment for rotary power mower. 3,477,212, 11-11-69, Cl. 56-25.4
Cofield, William W.: *See—*
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander,3,421,050.
Cofoid, Robert D., to General Time Corporation. Check valve for intravenous administration of liquids. 3,465,784, 9-9-69, Cl. 137-390.
Cofoid, Robert D., to General Time Corporation. Valve-switch assembly for use in intravenous feeding. 3,478,184, 11-11-69, Cl. 200-84.
Cofrancesco, Anthony J.; and Ferrigan, Richard, to GAF Corporation. Method of preparing sulfonated hydroxybenzophenone. 3,468,938, 9-23-69, Cl. 260-511.
Cogar, George R.: *See—*
Countryman, Albert J.; and Cogar, George R.,3,426,415.
Cogar, George R.; Seksc, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo, to Mohawk Data Sciences Corporation. Data recording and verifying machine. 3,483,523, 12-9-69, Cl. 340-172.5
Cogar, Samuel C., to Sperry Rand Corporation. Transducer positioning system. 3,449,735, 6-10-69, Cl. 340-174.1
Cogbill, Everett C.: *See—*
Leake, Preston H.; and Cogbill, Everett C.,3,428,049.
Cogdell, James D. Oscillating baby bed. 3,451,072, 6-24-69, Cl. 5-109.
Cogdill, Cletus V. Universal bar hanger. 3,425,655, 2-4-69, Cl. 248-343.
Cogelin, Nicholas J.; Martin, Samuel M.; and Ramsey, Raymond B., said Martin assor to Western Electric Company Incorporated, and said Cogelia and said Ramsey assors to Bell Telephone Laboratories, Incorporated. Electrical wire structure. 3,433,884, 3-18-69, Cl. 174-49.
Cogen, Leonard L.; and Koepplin, William J., to Union Carbide Corporation. Process for the secondary production of lead. 3,451,806, 6-24-69, Cl. 75-63.
Cogez, Paul Antoine Alexandre; Conte, Madeleine Marcelle; and Sabatier, Jacques Georges Robert, to Commissariat a l'Energie Atomique. High-pressure sealing system. 3,464,706, 9-2-69, Cl. 277-59.
Coggburn, Harley L.: *See—*
Lofgreen, Andrew F.; and Coggburn, Harley L.,3,470,707.
Cogger, Kenneth O.: *See—*
Berry, Foster W.; and Cogger, Kenneth O.,3,436,079.
Coggeshall, Almy D.: *See—*
Gibbs, Edward E.; Coggeshall, Almy D.; and Shirk, Harold R.,3,437,859.
Coggins, Robert W.: *See—*
Meyers, Charles O.; and Coggins, Robert W.,3,450,603.
Coglaiti, Joseph S., Jr; and Masterson, Daniel J., to Stauffer Chemical Company. Increasing the bulk density of soda ash adding calcium and magnesium ions prior to precipitation. 3,459,497, 8-5-69, Cl. 23-63.
Cogsdill, Glen H. Deburring tool. 3,442,162, 5-6-69, Cl. 77-73.5
Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 3,420,125, 1-7-69, Cl. 77-73.5
Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool and a method of making a deburring tool. 3,449,984, 6-17-69, Cl. 76-101.
Cogsdill Tool Products, Inc.: *See—*
Cogsdill, Stuart A., 3,420,125.
Cogsdill, Stuart A., 3,449,984.
Gustkey, John E., 3,444,714.
Cogswell, David W. Organ wind-chest. 3,472,115, 10-14-69, Cl. 84-340.
Cogswell, Richard V.: *See—*
Pfeiffer, Albert; Cogswell, Richard V.; Lynch, Charles W.; and Kunert, Herbert B.,3,478,926.
Cohaly, Fox B.: *See—*
Lovell, George V., 3,434,273.
Cohan, Allan N.: *See—*
Gray, Jack C.; and Cohan, Allan N.,3,446,623.
Cohee, Donald R., to Colin Design Engineering. Dispensing containers and blanks therefor. 3,421,680, 1-14-69, Cl. 229-17.
Cohen, Aaron; and Heath-Brown, Basil, to Hoffmann-La Roche Inc.11-Lower alkyl-hexahydro-1-benzazepino [3,2,1-h,i]pyrido[4,3-β]indole. 3,457,271, 7-22-69, Cl. 260-296.
Cohen, Abraham B., to LTV Ling Altec, Inc. Horn-loaded loudspeaker. 3,432,002, 3-11-69, Cl. 181-31.
Cohen, Abraham Bernard, to Du Pont de Nemours, E. I., and Company. Polymer compositions, strata and elements. 3,460,944, 8-12-69, Cl. 96-87.
Cohen, Abraham David, to Esso Research and Engineering Company. Sulfur dehydrogenation of organic compounds. 3,456,026, 7-15-69, Cl. 260-669.
Cohen, Alfred G.: *See—*
Small, Samuel N., 3,436,972.
Cohen, Arnold H.; and Pursiano, Leonard C., to Bendix Corporation, The. Rotary electromagnetic indicator device. 3,465,334, 9-2-69, Cl. 340-378.
Cohen, Arthur M. Business form. 3,480,297, 11-25-69, Cl. 282-22.
Cohen, Daniel; and Dejean, Jacques Henri, to International Standard Electric Corporation. Semi-permanent capacitor memory. 3,453,603, 7-1-69, Cl. 340-173.
Cohen, David A. Ceiling fixture adapter. 3,440,331, 4-22-69, Cl. 174-61.
Cohen, David J.; and Blivice, Sidney L. Shoe-size indicating apparatus. 3,457,647, 7-29-69, Cl. 33-3.
Cohen, David J.; and Blivice, Sidney L. Manual dispenser for heated adhesive. 3,459,335, 8-5-69, Cl. 222-146.
Cohen, David: *See—*
Webb, James E., administrator of the National Aeronautics and Space Administration with respect to an invention of,; Cohen, David; and Stone, Samuel E.,3,438,263.
Cohen, Edward A.; Bosworth, Robert H.; and Feucht, Robert E., to Bendix Corporation, The. Method of constructing a positive expulsion tank. 3,471,349, 10-7-69, Cl. 156-155.
Cohen, Eliot D., to United States of America, Navy. Microwave amplifier system with overall feedback. 3,474,348, 10-21-69, Cl. 330-53.
Cohen, Eliott: *See—*
Hanifin, John William, Jr.; Capuzzi, Rosemary Angela; and Cohen, Eliott,3,470,186.
Cohen, Emanuel Richard: *See—*
Balent, Ralph; Wetch, Joseph R.; and Cohen, Emanuel Richard,3,449,208.
Cohen, Ephraim. Shirt bundling rack. 3,451,558, 6-24-69, Cl. 211-86.
Cohen, Fred, to Radio Corporation of America. Semiconductor device having increased resistance to second breakdown. 3,448,354, 6-3-69, Cl. 317-235.
Cohen, Gene, to Radio Corporation of America. Monolithic semiconductor microcircuits with improved means for connecting points of common potential. 3,423,650, 1-21-69, Cl. 317-234.
Cohen, George R., to Standard Pressed Steel Co. Bolt and method of making same. 3,440,922, 4-29-69, Cl. 85-9.
Cohen, Howard M.: *See—*
Chegwidden, Raymond A.; Cohen, Howard M.; and Gilbert, William F., Jr.,3,479,292.
Cohen, Irvin; and Levy, Bernard D., to Construction Fasteners, Inc. Weather résistant fastener assembly. 3,452,636, 7-1-69, Cl. 85-1.
Cohen, Jerome H., to Hurtest Products Corporation. Pads for steam pressing apparatus. 3,471,955, 10-14-69, Cl. 38-66.
Cohen, Joseph; Duhart, Pierre; and Maurel, Pierre, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Process for treatment of coal schists for recovery of contained aluminum, iron and potassium. 3,484,196, 12-16-69, Cl. 23-123.
Cohen, Kenneth W., to Bailey Meter Company. Triggerable flip-flop fluid device. 3,468,326, 9-23-69, Cl. 137-81.5
Cohen, Lawrence R.: *See—*
Mitan, Frank J.; and Cohen, Lawrence R.,3,438,379.
Cohen, Leah, to Dupaco, Incorporated. Sphygmomanometric cuff. 3,467,077, 9-16-69, Cl. 128-2.05
Cohen, Leonard A. Control mechanism. 3,431,790, 3-11-69, Cl. 74-471.
Cohen, Martin B. Percussion instrument. 3,439,572, 4-22-69, Cl. 84-402.
Cohen, Martin Bruce, to Becton Dickinson and Company. Deformable needle assembly. 3,439,675, 4-22-69, Cl. 128-239.

Cohen, Martin: *See—*
Conte, Joseph G.; Spitaleri, Paul S.; and Cohen, Martin,3,455,650.
Cohen, Milton S., to Graphic Sciences, Inc. Acoustic insulating material. 3,476,209, 11-4-69, Cl. 181-33.
Cohen, Morris U.: *See—*
Liebowitz, Benjamin; and Cohen, Morris U.,3,434,478.
Cohen, Morris, to Loral Corporation. Non-reciprocal directional filter. 3,426,297, 2-4-69, Cl. 333-1.1
Cohen, Morris, to Loral Corporation. Electronically tunable yig filter having an electronically variable bandwidth. 3,435,385, 3-25-69, Cl. 333-73.
Cohen, Morris; and Sewell, Peter B., to Canadian Patents and Development Limited. Electrolytic formation of films of Fe_2O_3. 3,466,234, 9-9-69, Cl. 204-56.
Cohen, Morton: *See—*
Silverman, Elliott; and Cohen, Morton,3,421,221.
Silverman, Elliott; and Cohen, Morton,3,461,559.
Silverman, Elliott; and Cohen, Morton,3,464,112.
Silverman, Elliott; and Cohen, Morton,3,464,113.
Cohen, Murray S.: *See—*
Paustian, John E.; Fein, Marvin M.; and Cohen, Murray S.,3,436,172.
Cohen, Nathan, to Hamilton Watch Company. Pallet type index mechanism. 3,446,007, 5-27-69, Cl. 58-116.
Cohen, Paul; and Fletcher, Wilson D., to Westinghouse Electric Corporation. Method and apparatus for measuring the concentration of boron. 3,468,764, 9-23-69, Cl. 204-1.
Cohen, Philip, to Magnetics, Inc. Powder metallurgy. 3,436,802, 4-8-69, Cl. 29-420.5
Cohen, Richard L., to Bendix Corporation, The. Groundedspeed and estimated time of arrival computer. 3,443,073, 5-6-69, Cl. 235-150.2
Cohen, Robert Seldon, to Dover Chemical Corporation. Preparation of chlorinated hydroxy compounds. 3,481,991, 12-2-69, Cl. 260-623.
Cohen, Robert, to Comet Packaging Corporation, mesne. Litter bag. 3,425,618, 2-4-69, Cl. 229-53.
Cohen, Robert; Couleur, John F.; and Ruth, Richard L., to General Electric Company. Data process system including means responsive to predetermined codes for providing subsystem communication. 3,479,647, 11-18-69, Cl. 340-172.5
Cohen, Robert; Couleur, John F.; and Shelly, William A., to General Electric Company. Data processing system including communication priority and priority sharing among subsystems. 3,482,264, 12-2-69, Cl. 340-172.5
Cohen, Robert; Shelly, William A.; and Vidulich, Samuel M., to General Electric Company. Data processing system including means for awarding priority to requests for communication. 3,482,265, 12-2-69, Cl. 340-172.5
Cohen, Samuel L. Dispensing container. 3,433,546, 3-18-69, Cl. 312-71.
Cohen, Saul G.: *See—*
Blout, Elkan R.; Cohen, Saul G.; Green, Milton; and Simon, Myron S.,3,429,872.
Cohen, Saul M.; and Derby, Marshall J., to Monsanto Company. Laminates of styrene polymers and block copolymers. 3,438,845, 4-15-69, Cl. 161-165.
Cohen, Saul M.; and Derby, Marshall J., to Monsanto Company. Laminates of styrene-acrylonitrile and polyurethane. 3,438,846, 4-15-69, Cl. 161-165.
Cohen, Saul M.: *See—*
Young, Raymond H., Jr.; Cohen, Saul M.; and Markhart, Albert H.,3,460,961.
Young, Raymond H., Jr.; Cohen, Saul M.; Markhart, Albert H.; and Serlin, Irving,3,444,129.
Cohen, Sidney; and Schlesinger, Morton, to Millmaster Onyx Corporation. N-Propyl carbamate resin composition and method of treating a fabric therewith. 3,454,423, 7-8-69, Cl. 117-139.5
Cohen, Sidney; and Shay, Edward Griffin, to Millmaster Onyx Corporation. Cellulosics sanitized through reaction with triazone substituted with biologically active quaternary ammonium salt. 3,437,419, 4-8-69, Cl. 8-116.3
Cohen, Stanley I.; and Puig, John E., to Olin Mathieson Chemical Corporation. Hydrophilic polyurethane foams and a process for preparing them. 3,457,203, 7-22-69, Cl. 260-2.5
Cohen-Solal, Gerard: *See—*
Marfaing, Yves; Bailly, Francis; Cohen-Solal, Gerard; and Rodot, Michel,3,472,685.
Cohlan, Bernard F. Space navigation system. 3,421,715, 1-14-69, Cl. 244-1.
Cohler, Edmund U., to Sylvania Electric Products, Inc. Electroelastic memory. 3,451,046, 6-17-69, Cl. 340-173.
Cohler, Edmund U.; and Rubinstein, Harvey, to Sylvania Electric Products, Inc. Digital communications system for reducing the number of memory cycles. 3,453,607, 7-1-69, Cl. 340-174.
Cohler, Edmund U.; and Rubinstein, Harvey, to Sylvania Electric Products, Inc. Magnetosonic thin film memory. 3,465,305, 9-2-69, Cl. 340-174.
Cohn, Charles C., to Cohn, Samuel L., and Cohn, Charles C. Chemical polishing of aluminum and aluminum alloys. 3,425,881, 2-4-69, Cl. 156-19.
Cohn, Charles E., to United States of America, Atomic Energy Commission. Method for start-up of a nuclear reactor utilizing a digital computer. 3,424,653, 1-28-69, Cl. 176-22.
Cohn, Eugene: *See—*
Cohn, Joseph; and Cohn, Eugene,3,438,106.
Cohn, George I., to Quantum Engineering, Inc. Highly-stable orthogonal electric coil configuration. 3,457,502, 7-22-69, Cl. 324-34.
Cohn, George I.; and Tornheim, Harold. Method and means for determining volume of liquid in a tank. 3,447,374, 6-3-69, Cl. 73-290.
Cohn, Irving H., to Simmonds Precision Products, Inc. Point sensor volumetric fill device for liquid containers. 3,451,406, 6-24-69, Cl. 137-45.
Cohn, Irving H.; and De Nardo, Frank, to Simmonds Precision Products, Inc. Servo-controlled attitude error correction fluid gaging system. 3,463,980, 8-26-69, Cl. 318-18.
Cohn, Johann G. E.; Adlhart, Otto J.; and Hever, Keith O., to Engelhard Industries, Inc. Fuel cell and cathode including platinum alloy with cobalt or niobium. 3,440,103, 4-22-69, Cl. 136-86.
Cohn, Joseph, deceased (by Cohn, Florence, executrix); and Cohn, Eugene, to Conpax Corporation, mesne. Method of producing shrink-free knitted fabric having characteristics of elastic restorability. 3,438,106, 4-15-69, Cl. 28-74.
Cohn, Marius, to Sperry Rand Corporation. Full adder stage utilizing dual-threshold logic. 3,423,577, 1-21-69, Cl. 235-176.
Cohn, Marius, to Sperry Rand Corporation. General purpose boolean function generator utilizing dual-threshold logic elements. 3,441,859, 4-29-69, Cl. 328-92.
Cohn, Marius; and Franck, Abraham, to Sperry Rand Corporation. Error detecting methods. 3,460,117, 8-5-69, Cl. 340-146.1
Cohn, Maurice. Hook fastener element. 3,443,290, 5-13-69, Cl. 24-227.
Cohn, Robert A.; and Ellis, Sanford. Process of manufacturing a synthetic bristle brush. 3,425,746, 2-4-69, Cl. 300-21.
Cohn, Robert, to Nationwide Papers, Incorporated. Sheet aligning mechanism. 3,427,017, 2-11-69, Cl. 271-2.
Cohn, Robert, to Nationwide Papers, Incorporated. Flexible sheet feeding mechanism. 3,427,018, 2-11-69, Cl. 271-32.
Cohn, Samuel L., and Cohn, Charles C.: *See—*
Cohn, Charles C., 3,425,881.
Cohoon, James D., to Dresser Industries, Inc. Diffusion vacuum pump apparatus. 3,445,859, 5-20-69, Cl. 219-275.
Cohu Electronics, Inc.: *See—*
Kimball, James L.; Tompkins, William R.; and Ahrens, Harold R., 3,426,145.
Coiffu, Pierre, to Societe des Ciments Francais. Method and arrangement for producing white cement. 3,447,791, 6-3-69, Cl. 263-32.
Coil, Stanley F.; and Horst, William R., to National Cash Register Company, The. Film positioning device. 3,442,586, 5-6-69, Cl. 355-43.
Coilcraft, Inc.: *See—*
Boehmke, Thomas A., 3,466,381.
Coilfeed Systems, Inc.: *See—*
Baringer, Berlyn E.; Hole, Marvin A.; and Huber, John A., 3,451,237.
Coingt, Michel, to Oxysynthese. Method for regenerating catalysts used for reconverting worn solutions in the cyclic method of manufacture of hydrogen peroxide. 3,424,696, 1-28-69, Cl. 252-412.
Coisne, Hubert Jean Marie, to Lantor Limited. Process for coagulation of emulsions with steam containing, as a vapor, a material which reduces emulsion stability. 3,437,509, 4-8-69, Cl. 117-62.
Coja, Felix V. Liquid dispenser. 3,428,218, 2-18-69, Cl. 222-23.
Coker, Cecil H., to Bell Telephone Laboratories, Incorporated. Speech analysis system. 3,437,757, 4-8-69, Cl. 179-1.
Coker, Cecil H., to Bell Telephone Laboratories, Incorporated. Speech analysis system. 3,439,122, 4-15-69, Cl. 179-1.
Coker, Donald G.; and Loveless, James C., to Deseret Pharmaceutical Company, Inc. Surgical scrub device. 3,447,181, 6-3-69, Cl. 15-104.94
Coker, James N., to Du Pont de Nemours, E. I., and Company. Hydroxylated tetrafluoroethylene/isobutylene polymers and their preparation. 3,475,391, 10-28-69, Cl. 260-80.8
Coker, Jesse E.: *See—*
Zanowick, Richard L.; Coker, Jesse E.; and Morritz, Fred L.,3,433,684.
Coker, William P.: *See—*
Barksdale, Jelks; and Coker, William P.,3,425,855.
Dishburger, Henry J.; and Coker, William P.,3,467,608.
Coker, William P.; and Ham, George E., to Dow Chemical Company, The. Process for making triethylenetetramine. 3,462,493, 8-19-69, Cl. 260-583.
Cokic, Milan; and Hager, Alie Joseph. Portable toilet sink unit. 3,453,665, 7-8-69, Cl. 4-166.

Colab Laboratories, Inc.: *See—*
Scherr, George H., 3,434,801.
Colad Company, Inc., The: *See—*
Ketterer, Edward M., 3,473,777.
Colarusso, Augustine L.; and Hushen, Frederick, to Van Brode Milling Co., Inc. Valved container. 3,465,911, 9-9-69, Cl. 220-86.
Colautti, Albert J., to General Motors Corporation. Seat adjuster. 3,460,794, 8-12-69, Cl. 248-430.
Colautti, Albert J.; and Suszko, Donald H., to General Motors Corporation. Riveting. 3,479,727, 11-25-69, Cl. 29-444.
Colberg, Stephen R., to United States of America, Navy. Piezoelectric transducer. 3,474,267, 10-21-69, Cl. 310-8.1
Colbert, John R.: *See—*
Lenahan, James L.; and Colbert, John R.,3,427,481.
Colbow, Konrad; Garrett, Charles G. B.; and Thomas, Donald E., to Bell Telephone Laboratories, Incorporated. Light modulator using light choppers. 3,435,213, 3-25-69, Cl. 250-71.
Colburn, Jay T., to Armour and Company. Margarine composition and preparation thereof. 3,477,857, 11-11-69, Cl. 99-123.
Colburn, Lyle W., to Dow Chemical Company, The. Apparatus and process for high purity deionized water. 3,454,491, 7-8-69, Cl. 210-27.
Colburn, Reuben D., to Northrop Corporation. Roll forming. 3,485,076, 12-23-69, Cl. 72-179.
Colburn, Steven C.; Hallse, Robert L.; Matsuda, Hisashi; and Mayhall, Joel O., to General Dynamics Corporation. Apparatus for forming castings. 3,481,010, 12-2-69, Cl. 25-129.
Colburn, William: *See—*
Cooley, William H.; Allison, Kenneth C.; and Colburn, William,3,466,181.
Colby, Joseph M.; Manor, Paul A.; and Kania, Gustav, to Rockwell Manufacturing Company. Valve assembly. 3,460,802, 8-12-69, Cl. 251-172.
Colby, Leo K.; and Kirby, Burton F., to Fasco Industries, Inc. Rotor for fractional horsepower torque motor. 3,465,181, 9-2-69, Cl. 310-44.
Colchester, John Edward, to Imperial Chemical Industries Limited. Preparation of pyridines. 3,461,127, 8-12-69, Cl. 260-290.
Colchester, John Edward; and Entwisle, John Hubert, to Imperial Chemical Industries Limited. Process for producing N:N'-dilower alkyl-4:4'- bipyridylium salts. 3,461,128, 8-12-69, Cl. 260-296.
Colchester, John Edward; and Entwisle, John Hubert, to Imperial Chemical Industries Limited. Production of N:N-disubstituted tetrahydro- 4:4'-bipyridyl with the use of a water immiscible solvent in a reduction process. 3,478,042, 11-11-69, Cl. 260-296.
Colchester, John Edward; and Entwisle, John Hubert, to Imperial Chemical Industries Limited. 4,4'-(bis N,N'-carbamyl methyl) tetrahydrobipyridyls. 3,484,447, 12-16-69, Cl. 260-295.
Colchester, John Edward; Entwisle, John Hubert; and Green, Maurice Berkeley, to Imperial Chemical Industries Limited. Separation process. 3,464,981, 9-2-69, Cl. 260-240.
Colchin, Max E.: *See—*
Racine, Richard W.; and Colchin, Max E.,3,463,539.
Racine, Richard W.; and Colchin, Max E.,3,480,975.
Colclaser, Robert G., Jr.; and Reese, Frank L., to Westinghouse Electric Corporation. Circuit interrupter of the gaseous puffer-type having series high-current explosion chamber with series connected activated carbon therein. 3,458,676, 7-29-69, Cl. 200-148.
Colclaser, Robert G., Jr.; and Yeckley, Russell N., to Westinghouse Electric Corporation. Compressed-gas circuit interrupter. 3,454,734, 7-8-69, Cl. 200-148.
Coldfield, Sutton: *See—*
Wilson, Alexander John; Coldfield, Sutton; and Ingham, Peter Charles,3,422,932.
Coldren, Clarke L.: *See—*
Chu, Paul T.; and Coldren, Clarke L.,3,473,542.
Coldren, Clarke L.; and Chu, Paul T., to Shell Oil Company. In situ pipeline heat generation. 3,474,806, 10-28-69, Cl. 137-13.
Coldren, Daniel Russell, to AMP, Incorporated. Strain relief bushing. 3,424,856, 1-28-69, Cl. 174-153.
Coldren, Helen J. Transparent tracing board. 3,484,952, 12-23-69, Cl. 35-26.
Cole, Albert B., Jr.; and Dennis, Donald I. Air blower apparatus. 3,483,713, 12-16-69, Cl. 62-426.
Cole, Albert J., to Firestone Tire & Rubber Company, The. Non-blocking electrostatic sheets. 3,459,593, 8-5-69, Cl. 117-201.
Cole, Alfred E.: *See—*
Fletcher, Kenneth E.; and Cole, Alfred E.,3,460,879.
Cole, Bernard Arthur, to Erie Technological Products Limited. Method of making capacitors. 3,484,842, 12-16-69, Cl. 29-25.42
Cole, Berton A.; and Ruonavaara, Quentin F., to Boeing Company, The. Room temperature storable precatalyzed substrate for laminates. 3,485,655, 12-23-69, Cl. 117-54.
Cole, Charles N., to General Electric Company. Frequency to D.-C. converter. 3,466,526, 9-9-69, Cl. 321-8.
Cole, Clinie E., to Phillips Petroleum Company. Wet pelleting of carbon black. 3,459,844, 8-5-69, Cl. 264-117.
Cole, David F.; and Trachtenberg, Isaac, to Texas Instruments, Incorporated. Method of improving the performance of fuel cells. 3,436,271, 4-1-69, Cl. 136-86.
Cole, David L. Surf towboard. 3,469,554, 9-30-69, Cl. 115-4.
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I., to AWB Manufacturing Co., Inc. Wheel balancer with integral attaching tabs. 3,427,076, 2-11-69, Cl. 301-5.
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I., to AWB Manufacturing Co., Inc. Dynamic wheel balancer. 3,427,077, 2-11-69, Cl. 301-5.
Cole, Edward L.; Knowles, Edwin C.; and Sensel, Eugene E., to Texaco Inc. Extended zeolitic structures. 3,468,815, 9-23-69, Cl. 252-455.
Cole, George S.; and Ritzenthaler, Richard L. Line valve of the compressible-tube type. 3,436,054, 4-1-69, Cl. 251-8.
Cole, Harold E.: *See—*
Diehl, Alan V.; and Cole, Harold E.,3,437,162.
Cole, Harry G. Tremolo device. 3,466,962, 9-16-69, Cl. 84-312.
Cole, Howard W., Jr., to Torque Industries, Inc. Endless tape cartridge. 3,442,462, 5-6-69, Cl. 242-55.19
Cole, James B., to Crown Zellerbach Corporation. Split-stream collating apparatus. 3,421,758, 1-14-69, Cl. 271-82.
Cole, James D. Self-aligning bearings. 3,437,386, 4-8-69, Cl. 308-72.
Cole, James Edward George, to McMurdo Instrument Company Limited, The. Connectors for laminar electric cables. 3,477,059, 11-4-69, Cl. 339-99.
Cole, Jimmy R., to Continental Oil Company. Remotely controllable pressure responsive apparatus. 3,434,446, 3-25-69, Cl. 114-235.
Cole, John M., to Thomas & Betts Corporation. Ultrasonic welding device. 3,436,006, 4-1-69, Cl. 228-1.
Cole, John Wayne; and Lex, Charles George, to Abbott Laboratories. 17-Substituted 3-(p-methoxybenzenesulfonoxy androst-5-enes. 3,468,880, 9-23-69, Cl. 260-239.55
Cole, John Wayne: *See—*
Flouret, George Rogelio; and Cole, John Wayne,3,487,065.
Cole, Joseph I.; and Martin, William C., to Nassau Smelting and Refining Company, Inc. Method and control system for measuring and regulating the rolling temperature of a rolling mill. 3,465,564, 9-9-69, Cl. 72-201.
Cole, Joseph I.; and Moss, Harold S., to Nassau Smelting and Refining Company, Inc. Strand distributing and receiving apparatus and method. 3,445,077, 5-20-69, Cl. 242-83.
Cole, Leslie Charles: *See—*
Hutchinson, William George; and Cole, Leslie Charles,3,421,977.
Cole, Lynn A. Disinfecting apparatus. 3,421,480, 1-14-69, Cl. 119-159.
Cole Manufacturing Company: *See—*
Ennis, James W., 3,439,378.
Cole, Marc. Desalination by submerged reverse osmosis. 3,456,802, 7-22-69, Cl. 210-170.
Cole, Morton S., to Archer Daniels Midland Company. Method for coating dehydrated food. 3,479,191, 11-18-69, Cl. 99-166.
Cole National Corporation: *See—*
Patriquin, George P.; and Haner, Harry J., 3,466,747.
Cole, Paul Morrison, to Du Pont de Nemours, E. I., and Company. Acute angle tow opener. 3,461,508, 8-19-69, Cl. 19-65.
Cole, Richard I.; Holcroft, Donald E.; Milligan, Edward A.; and Greenhalgh, Samuel, to Scott Paper Company. Transpiration drying and embossing of wet paper webs. 3,432,936, 3-18-69, Cl. 34-6.
Cole, Robert Dwight: *See—*
Murphy, Richard John; and Cole, Robert Dwight,3,446,644.
Cole, Roger O. Fishing-line controller. 3,470,649, 10-7-69, Cl. 43-43.13
Cole, Saxon, to American Air Filter Company, Inc. Shutoff valve. 3,480,029, 11-25-69, Cl. 137-79.
Cole Steel Equipment Co., Inc.: *See—*
Serwer, Arthur, 3,446,544.
Cole, William C.; Paul, Frank B.; and Wood, Clifton E., to General Motors Corporation. Thermocouple head. 3,459,598, 8-5-69, Cl. 136-231.
Cole, William J., to Motorola, Inc. Encoder-decoder circuit including diode switching of a stage from an amplifier to an oscillator. 3,441,854, 4-29-69, Cl. 325-18.
Cole, William J.; and Conforti, Fred J., to Motorola, Inc. Tone inhibitor circuit for plural tone receiver. 3,447,133, 5-27-69, Cl. 340-171.
Cole, William M., to Satrain Lines, Inc. Ship cargo handling system. 3,460,686, 8-12-69, Cl. 214-14.
Cole-Parmer Instrument and Equipment Company: *See—*
Gilmont, Roger, 3,430,813.
Colebrook Mills, Inc.: *See—*
Crawford, Ishmael, 3,431,752.
Colechia, Raymond L., to General Dynamics Corporation. Object handling system with remote manual control. 3,449,008, 6-10-69, Cl. 294-88.
Colechia, Raymond L.; and Malcolm, Vincent T., Jr., to General Dynamics Corporation. Stowable underwater manipulator. 3,451,224, 6-24-69, Cl. 61-69.
Coleco Industries, Inc.: *See—*
Diemond, Joseph; and Greenberg, Leonard, 3,421,162.
Diemond, Joseph; Gershman, Melvin Y.; and Sundberg, Henry L., Jr., 3,428,969.

Coleman Cable & Wire Co.: *See—*
Fanelli, Joseph George, 3,484,735.
Coleman, Charles H., Jr.; and MacKenzie, Robert P., to Ampex Corporation. Head-to-tape velocity error compensator for rotary head video tape recorders. 3,428,745, 2-18-69, Cl. 178-6.6
Coleman, Charles H.; and Torrance, James H., to General Dynamics Corporation. Thickness reduction control system. 3,448,600, 6-10-69, Cl. 72-8.
Coleman, Clarence B., to Fabricated Metals, Inc. Flexibe discharge valve. 3,451,419, 6-24-69, Cl. 137-322.
Coleman, Clarence B. Container with disposable liner. 3,468,451, 9-23-69, Cl. 220-63.
Coleman, Clarence B. Means to immerse and tilt workholder. 3,472,203, 10-14-69, Cl. 118-425.
Coleman, Clarence B. Liquid proportioning and metering pump system. 3,474,965, 10-28-69, Cl. 239-68.
Coleman Company, Inc., The: *See—*
Cooper, Robert R.; and Castello, Anthony M., 3,446,202.
Gladden, David J.; and Marsh, William J., 3,457,021.
Gladden, David J.; and Roy, Michael G., 3,457,930.
Hershey, Gerald L.; and Johnson, Donald A., 3,430,549.
Little, Ellwood E., 3,446,523.
Roy, Michael G.; and Wallace, Joseph D., 3,472,219.
Coleman, George; and Swimmer, James A., to Berns Air King Corporation. Forced air furnace humidifier. 3,472,496, 10-14-69, Cl. 261-92.
Coleman, Henry C.: *See—*
Bodenheimer, Vernon B.; Smith, Jimmie H.; and Coleman, Henry C.,3,472,732.
Coleman, Homer B.; and Gardner, Robert E., Jr., to United States Steel Corporation. Method of clearing tar accumulations from a coke- oven collector main. 3,432,396, 3-11-69, Cl. 201-2.
Coleman, James T.; and Fox, James William, to Coleman-Fox, Inc. Portable running ropes. 3,433,480, 3-18-69, Cl. 273-55.
Coleman, John W., to RCA Corporation. Electron gun suitable for electron microscope. 3,452,241, 6-24-69, Cl. 315-15.
Coleman, Joseph B.: *See—*
Johnson, Howard M., 3,479,778.
Coleman, Lester E., to Lubrizol Corporation, The. Lubricants containing polymers of aromatic N-3- oxohydrocarbon-substituted acrylamides. 3,425,942, 2-4-69, Cl. 252-51.5
Coleman, Lester E., to Lubrizol Corporation, The. Fluoroalkyl acrylate copolymers. 3,455,889, 7-15-69, Cl. 260-80.72
Coleman, Lester E., to Lubrizol Corporation, The. Method for preparing polyamides from N-3-oxo- hydrocarbon substituted acrylamides. 3,458,478, 7-29-69, Cl. 260-63.
Coleman, Louis J.; and Chin, Leslie Sut Fong, to Westinghouse Electric Corporation. Electronic component carrier. 3,454,921, 7-8-69, Cl. 339-174.
Coleman, Milton H.; and Traver, Darwin G., to Carrier Corporation. Air distribution terminal. 3,422,888, 1-21-69, Cl. 165-123.
Coleman, Milton H.; Traver, Darwin G.; and Herb, Carl C., to Carrier Corporation. Air distribution terminal. 3,452,667, 7-1-69, Cl. 98-41.
Coleman, Nathan. Resilient innersole. 3,457,659, 7-29-69, Cl. 36-44.
Coleman, Neil A.; and Weinfurther, Donald B., to Ford Motor Company. Apparatus for cleaning the lens of a vehicle running light. 3,469,088, 9-23-69, Cl. 240-7.1
Coleman, Ralph Arthur: *See—*
Foster, Walter Henry, Jr.; Dowd, John Mark, Jr.; and Coleman, Ralph Arthur,3,475,339.
Susi, Peter Vincent; and Coleman, Ralph Arthur,3,440,257.
Coleman, Richard L., to Texaco Inc. Solvent refining of hydrocarbon mixtures with N-methyl-2-pyrrolidone. 3,476,680, 11-4-69, Cl. 208-326.
Coleman, Robert E. Remote slide changing control system. 3,467,834, 9-16-69, Cl. 307-116.
Coleman, Ronald C. Extendable scaffold. 3,480,110, 11-25-69, Cl. 182-184.
Coleman, Ronald H.; and Nigro, Frank D., to Avco Corporation. Target generating device. 3,453,853, 7-8-69, Cl. 72-253.
Coleman, William L.; and Manning, Joseph P. Decorative fiber glass product and process for making same. 3,461,025, 8-12-69, Cl. 161-91.
Coleman-Fox, Inc.: *See—*
Coleman, James T.; and Fox, James William, 3,433,480.
Colen, William J. Article handling apparatus. 3,436,115, 4-1-69, Cl. 294-87.
Coler, Myron A.: *See—*
Corren, Sidney A.; and Coler, Myron A.,3,426,682.
Corren, Sidney A.; and Coler, Myron A.,3,449,999.
Coles, Eric Neville, to Wix of London Limited. Apparatus for packing and wrapping. 3,435,585, 4-1-69, Cl. 53-133.
Coles, John B., to American Velcro, Inc. Hockey stick. 3,458,194, 7-29-69, Cl. 273-67.
Coles, Robert F.: *See—*
Meyer, Donald K.; and Coles, Robert F.,3,436,321.
Coless, Thomas L., to Union Carbide Corporation. Method of making bonded welding flux. 3,428,497, 2-18-69, Cl. 148-26.
Coless, Thomas L.; and Rimer, Kenneth W., to Union Carbide Corporation. Arc welding compositions. 3,480,487, 11-25-69, Cl. 148-26.
Coless, Thomas L.; and Rimer, Kenneth Woodrow, to Union Carbide Corporation. Low silica welding composition. 3,424,626, 1-28-69, Cl. 148-26.
Coletti, Rudolph L. Fluid driven flow dividing valve. 3,485,269, 12-23-69, Cl. 137-624.14
Colfico, S.A.: *See—*
Dubois, Robert, 3,454,746.
Colgan, Charles E.; and McArdle, Edward J., to Continental Can Company, Inc. Vented closure. 3,455,481, 7-15-69, Cl. 220-44.
Colgan, William L., to Rex Chainbelt Inc. Speed changing device. 3,424,036, 1-28-69, Cl. 74-805.
Colgate-Palmolive Company: *See—*
Austin, Amory Earl; and Lee, Preston Pope, 3,434,974.
Auston, Amory Earl; and Fischer, Charles Frederick, 3,481,880.
Barnhurst, James Douglas; Leigh, Gilbert Merlin; and Monick, John Alexander, 3,442,812.
Bauman, Robert Andrew, 3,424,545.
Bauman, Robert Andrew, 3,471,560.
Biel, John H.; and Judd, Claude I., 3,454,554.
Biel, John H.; and Judd, Claude I., 3,454,698.
Brukker, Alexander E.; and Judd, Claude I., 3,435,041.
Clancy, David, 3,481,099.
Compa, Russell Edward; and Liebowitz, Marvin, 3,485,905.
Di Salvo, Walter Anthony; and Schrager, Jerome Stanley, 3,420,875.
Diaz, Ramon Bruno, 3,458,446.
Dillarstone, Alan, 3,451,593.
Drukker, Alexander E.; and Judd, Claude I., 3,435,042.
Elkind, Vincent Theodore; Yurko, Joseph Aloyus; and Hunter, Robert Tweedy, 3,476,583.
Fischer, Charles Frederick, 3,446,485.
Fischer, Charles Frederick, 3,451,928.
Gagliardi, Domenick Donald, 3,445,274.
Gasser, Edward Bruce; and Healy, Denis J., 3,446,402.
Goldman, Michael Ira; and Bouchal, Alexander Wayne, 3,422,184.
Gyarmathy, Kenneth W.; and Bouchal, Alexander W., 3,431,339.
Harris, Don Navarro, 3,450,812.
Hunger, Robert Tweedy, 3,468,697.
Jatul, Bernard; and Costello, Christopher, 3,476,853.
Judd, Claude I.; Drukker, Alexander E.; and Biel, John H., 3,435,073.
Kraus, Milton N., 3,455,834.
Levinsky, Henry Leon; and Rubinfeld, Joseph, 3,462,525.
Marschner, Frank William, 3,470,292.
McDonnell, Robert William; and Schaafsma, Bernard Richard, 3,445,242.
Mees, Arthur Allan; and Olson, Frank Wesley, Jr., 3,476,489.
Miles, Gilbert Dewayne, 3,450,254.
Mills, George, 3,467,056.
Pickin, John Harlan, 3,431,060.
Robinson, Radcliffe Franklin, 3,442,662.
Rubinfeld, Joseph; and Ouw, Willem Bian Gwan, 3,428,654.
Schnettler, Richard A.; and Suh, John T., 3,420,863.
Shedlovsky, Leo, 3,429,963.
Skorcz, Joseph A., 3,470,300.
Skorcz, Joseph A.; and Suh, John T., 3,472,843.
Suh, John T.; and Judd, Claude I., 3,420,865.
Suh, John T.; and Skorcz, Joseph A., 3,478,058.
Suh, John T.; and Skorcz, Joseph A., 3,478,059.
Walker, Harris H., 3,483,390.
Walton, Richard Rhodes, 3,423,965.
Colibri Lighters Limited: *See—*
Retzler, William, 3,432,248.
Retzler, William, 3,476,158.
Colight, Inc.: *See—*
Burgess, Dennis A., 3,479,121.
Pesek, Cyril P., 3,431,921.
Colijn, Hendrik: *See—*
Chang,Yi-Chung; and Colijn, Hendrik,3,433,472.
Colijn, Hendrik, to United States Steel Corporation. Apparatus for charging a blast furnace continuously. 3,476,374, 11-4-69, Cl. 266-27.
Colin, Aaron G.: *See—*
Ramsey, Willard A.; and Colin, Aaron G.,3,484,098.
Colin Design Engineering: *See—*
Cohee, Donald R., 3,421,680.
Colinet, Andre: *See—*
Bouthors, Pierre; and Colinet, Andre,3,448,674.
Bouthors, Pierre; and Colinet, Andre,3,470,949.
Colinet, Rene D.; and Norcross, James E., said Norcross, James E., assor to Arcos Corporation, and Colinet, Rene D. assor to Industrial Research Laboratory, Inc. Magnetic crawler. 3,437,786, 4-8-69, Cl. 219-126.
Collaborative Research, Incorporated: *See—*
Zemlin, John C.; and Herrington, Katherine A., 3,459,198.

Collard, Allison C., to Patent Service Corporation of America. Electrical soldering iron with a low adhesive protective sleeve. 3,435,188, 3-25-69, Cl. 219-237.
Collard, Allison C.: *See—*
Nolte, Albert C., Jr.; and Collard, Allison C.,3,448,434.
Collardeau, Georges; and Bonin, Yves, to Rhone-Poulenc S.A. Stabilisation of solutions of polyurethane polymers. 3,484,404, 12-16-69, Cl. 260-32.6
Collaris, Maria Antonius Alphonsus Andreas: *See—*
Bakker, Martinus Antonius Maria; Collaris, Maria Antonius Alphonsus Andreas; and Duran, Johannes Christiaan,3,478,243.
Colle, Ervin Richard, to Construction Techniques, Inc. Method and means for protecting beaches. 3,474,626, 10-28-69, Cl. 61-38.
Collectron Corporation: *See—*
Waznys, Peter J.; and Garrido, John A., 3,457,378.
Collens, Granger H., to Reliance Electric and Engineering Company, The. Frame for dynamoelectric machine with reluctance varying magnetic shim space. 3,441,760, 4-29-69, Cl. 310-91.
Colleran, Brian M.: *See—*
Watts, Percy E.; and Colleran, Brian M.,3,447,653.
Collett, Charles Haskell. Well swab cup. 3,450,412, 6-17-69, Cl. 277-212.
Collett, Charles H. Oil well protector. 3,484,141, 12-16-69, Cl. 308-4.
Colletti, Joseph J. Cane planting apparatus. 3,465,902, 9-9-69, Cl. 214-82.
Colletti, Paul John. Automotive wheels. 3,463,552, 8-26-69, Cl. 301-36.
Colleuille, Yves: *See—*
Frainnet, Emile Eugene; Calas, Raymond Jean; and Colleuille, Yves,3,440,272.
Colleuille, Yves, to Rhone-Poulenc S.A. Preparation of alkenyloxysilanes. 3,450,737, 6-17-69, Cl. 260-448.8
Colley, Rowan H., to Rolls-Royce Limited. Gas turbine power units. 3,472,029, 10-14-69, Cl. 60-271.
Collez, Louis, to Societe Anonyme Peltex. Methods for dyeing pile fabrics and colored fabrics obtained thereby. 3,464,779, 9-2-69, Cl. 8-14.
Collie, Stafford D., to Phillips Petroleum Company. Container. 3,434,644, 3-25-69, Cl. 229-5.6
Collie, Stafford D., to Phillips Petroleum Company. Heat sealed pull tab. 3,475,246, 10-28-69, Cl. 156-268.
Collie, Stafford D., to Phillips Petroleum Company. Open-sided container. 3,482,756, 12-9-69, Cl. 229-2.5
Collie, Stafford D.: *See—*
Smith, Ernest L.; and Collie, Stafford D.,3,448,888.
Collier, Charles P.; and Shellabarger, John L., to Printing Arts Research Laboratories, Inc. Process of making diazo copies by sublimation of reactant materials on to a copy sheet. 3,454,764, 7-8-69, Cl. 250-65.
Collier, Donald C., to Rucker Company, The. Airplane washing device. 3,439,372, 4-22-69, Cl. 15-21.
Collier, George A. Automatic car wheel washing apparatus. 3,446,217, 5-27-69, Cl. 134-45.
Collier, Leslie: *See—*
Burton, Derek Rodney; Judd, Bertie William; and Collier, Leslie,3,425,486.
Collier, Robert J.: *See—*
Burckhardt, Christoph B.; and Collier, Robert J.,3,483,513.
Collier, Robert J., to Bell Telephone Laboratories, Incorporated. Hologram storage apparatus and method using a diffusing medium. 3,484,147, 12-16-69, Cl. 350-3.5
Collier, Sydney Wellington. Adjustment mechanism for industrial maintenance machines. 3,428,984, 2-25-69, Cl. 15-49.
Collin, Charles B.: *See—*
Cannon, Ernest W.; and Byrens, David W., 3,463,218.
Collin, Herbert S. Hanger bar for garment cartons. 3,480,153, 11-25-69, Cl. 211-124.
Collinet, Andre, to Compagnie du Filage des Metaux et des Joints Curty (Cefilac). Method of hot-extruding metals which require a low rate of deformation. 3,423,975, 1-28-69, Cl. 72-42.
Colling, Philip M.: *See—*
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,420,911.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,420,912.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,428,703.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,440,299.
Colling, Ronald L., to General Motors Corporation. Photoelectric error detector. 3,468,168, 9-23-69, Cl. 73-519.
Collings, Jerry M., to Zeltex, Inc. Semi-conductor chopper circuit for chopper stabilized operational amplifiers and method. 3,458,799, 7-29-69, Cl. 321-44.
Collings, Thomas Guy: *See—*
Gentry, Martin Butler, Jr.; and Collings, Thomas Guy,3,457,489.
Collingwood, George H., to Allied Chemical Corporation. Non-torque bulk yarn and process of forming same. 3,438,190, 4-15-69, Cl. 57-140.
Collingwood, George H.; Demas, Harry J.; and Bryant, George F., to Allied Chemical Corporation. Composite yarn structures and method of preparing same. 3,460,336, 8-12-69, Cl. 57-140.
Collingwood, James R.: *See—*
Foran, Nicholas A.; and Collingwood, James R.,3,483,854.
Collingwood, John Douglas: *See—*
Combridge, John Hayden; and Collingwood, John Douglas,3,466,403.
Collins & Aikman Corporation: *See—*
Ackerman, Myron H., 3,426,360.
Bourgault, Albert J.; and Harward, Robert A., 3,487,181.
Collins, Charles G.: *See—*
Vincent, Robert E.; Collins, Charles G.; Snyder, Nate H.; and West, Frank B.,3,458,404.
Collins Chemical Co., Inc.: *See—*
Nano, Gian Mario; and Cabella, Paolo, 3,467,649.
Collins, Clarence Edward. Warning device for towed vehicles. 3,474,411, 10-21-69, Cl. 340-87.
Collins, Clifford H.: *See—*
Daigh, Harold D.; and Collins, Clifford H.,3,465,736.
Collins, David M.: *See—*
Iverson, Gary J.; and Collins, David M.,3,436,737.
Collins, David M., to Sperry Rand Corporation. Deskewing system. 3,456,237, 7-15-69, Cl. 340-146.1
Collins, Dennis William, to Hugh Steeper Limited. Gas operated arm prosthesis. 3,474,466, 10-28-69, Cl. 3-1.2
Collins, Douglas M. Ski pole construction. 3,427,039, 2-11-69, Cl. 280-11.37
Collins, Elliott J.: *See—*
Shapiro, Elliot L.; Collins, Elliott J.; and Finckenor, Lawrence E.,3,422,193.
Collins, Floyd K., to Sylvania Electric Products, Inc. Means for holding an article having an open cylindrical cavity. 3,463,500, 8-26-69, Cl. 279-2.
Collins, Frank C., to PRD Electronics, Inc. Solid state scanning device. 3,423,527, 1-21-69, Cl. 178-7.1
Collins, Frank C., to PRD Electronics, Inc. Radiation discriminator means. 3,435,237, 3-25-69, Cl. 250-214.
Collins, Franklyn M., to Air Reduction Company, Incorporated. Film resistor having nonconductive coat and method of making the same. 3,486,988, 12-30-69, Cl. 204-38.
Collins, Fredrick P.; and Clark, Roland Everett, to Microwave Associates, Inc. Wave frequency multiplier employing a non-linear device in a band-pass filter. 3,443,199, 5-6-69, Cl. 321-69.
Collins, Galen F.: *See—*
Barr, Fred S.; and Collins, Galen F.,3,475,540.
Collins, George C.; and Lacey, Charles H., to General Motors Corporation. Dynamoelectric machine cooling. 3,456,140, 7-15-69, Cl. 310-54.
Collins, Gordon D.: *See—*
Cochran, John T.; and Collins, Gordon D.,3,483,980.
Collins, Guy Robert, to Dow Chemical Company, The. S,S-Dialkyl-N-[ρ-(substituted)-phenyl-sulfonyl] sulfilimines. 3,471,436, 10-7-69, Cl. 260-397.7
Collins, Harvey H., to Package Machinery Company. Control switch actuating apparatus for a plastic injection molding machine or the like. 3,454,990, 7-15-69, Cl. 18-30.
Collins, Henry R., Jr., to Phillips Petroleum Company. Sampling system. 3,438,261, 4-15-69, Cl. 73-421.5
Collins, Henry R., Jr. Small particle bypass filter means. 3,459,307, 8-5-69, Cl. 210--316
Collins, Henry R., Jr., to Phillips Petroleum Company. Temperature compensation for viscosity measurements. 3,480,032, 11-25-69, Cl. 137-92.
Collins, Herbert E.; and Holloway, Fred Ward, Jr., to Reynolds Metals Company. Method of making a metallic container. 3,425,379, 2-4-69, Cl. 113-120.
Collins, Howard O.: *See—*
Perdue, Willard F.; and Collins, Howard O.,3,441,999.
Collins, Howard W. Truss element. 3,447,278, 6-3-69, Cl. 52-694.
Collins, Howard W. Building panel system. 3,479,073, 11-18-69, Cl. 287-189.36
Collins, Jack Bertram, to Graviner (Colnbrook) Limited. Apparatus responsive to fluid flow. 3,485,099, 12-23-69, Cl. 73-204.
Collins, Jack T., to Automation Industries, Inc. Ultrasonic inspection of plywood panel. 3,423,991, 1-28-69, Cl. 73-67.5
Collins, Jerome F., to Sonotone Corporation. Phonograph pickup. 3,439,921, 4-22-69, Cl. 274-37.
Collins, Jerome F., to Sonotone Corporation. Phonograph cartridge retraction means. 3,475,032, 10-28-69, Cl. 274-24.
Collins, Jerome F.; and Shatavsky, Morris S., to Sonotone Corporation. Resonant-peak motion of beam-shaped mechanoelectric audio-frequency transducers damped by limited fluorocarbon polymer volume. 3,475,565, 10-28-69, Cl. 179-100.41
Collins, Jock R. Apparatus and method for trimming animal ears. 3,451,396, 6-24-69, Cl. 128-305.
Collins, Joel Clarence, to Maremont Corporation. Turbine spinning apparatus. 3,447,298, 6-3-69, Cl. 57-58.89
Collins, John Desmond: *See—*
Mole, Maurice Frederick; Jacques, James Keith; and Collins, John Desmond,3,442,986.

Woodham, Samuel R.; Bradley, Eugene F.; and Collins, John D.,3,442,684.

Collins, John J.; and Dye, Charles E., to Railway Communications, Inc. Method and apparatus for measuring capacitance at repeated intervals including average valve indicat- ing means. 3,452,272, 6-24-69, Cl. 324-60.

Collins, John Oliver, Jr., to Johns-Manville Corporation. Thermal insulation of fibrous brucite. 3,432,381, 3-11-69, Cl. 162-152.

Collins, John W. Bowling ball. 3,441,274, 4-29-69, Cl. 273-63.

Collins, Johnnie C.: *See—*
West, Hoy E.; and Collins, Johnnie C.,3,470,964.

Collins, Joseph F., to Weatherhead Company, The. Stepped reaction piston for hydraulic pump. 3,460,484, 8-12-69, Cl. 103-173.

Collins, Kenneth C. Toy including a light in front of a dog which moves in a life-like manner and a sound simulating a bark is emitted. 3,443,338, 5-13-69, Cl. 46-227.

Collins, Leon A., to Dow Chemical Company, The. Method and apparatus for testing core permeability. 3,420,093, 1-7-69, Cl. 73-38.

Collins, Lowell J., to Grace Machinery Corporation, mesne. Automatic means and method for producing cheese curd. 3,433,648, 3-18-69, Cl. 99-116.

Collins, Martin F., to Engelhard Industries, Inc. Hydrogen generator. 3,451,783, 6-24-69, Cl. 23-281.

Collins, Oliver Davis, to Snilloc Corporation. Mechanism for locking the brake assembly for railroad cars. 3,430,735, 3-4-69, Cl. 188-67.

Collins, Oren J. Dynamic depressor for fishing line. 3,466,787, 9-16-69, Cl. 43-43.13

Collins Radio Company: *See—*
Anderson, Albert E., 3,465,127.
Anderson, Dean T., 3,441,868.
Andrea, John J.; Meier, James C.; and Hogue, Noel E., 3,420,990.
Andrea, John J., 3,431,509.
Bernard, Francis A., 3,467,005.
Bise, Donald L., 3,439,295.
Bise, Donald L., 3,440,572.
Bishop, George E.; and McManis, Donald L., 3,465,222.
Bush, Harry D.; and Fassett, John R., 3,456,186.
Carithers, Mercer D., 3,466,230.
Carli, Raymond J., 3,453,565.
Christian, Hugh S.; Lowe, Dale R.; Ulrick, Charles J.; and Womack, Charles P., 3,465,101.
Conant, Paul L., Sr., 3,448,396.
Day, Willis E.; and Phillips, Donald E., 3,426,266.
De Long, Vincent R.; Durspek, William J., Jr.; and Weltha, Marvin D., 3,452,293.
Deasy, Richard E., 3,466,254.
Decker, David L.; and Hamer, Morgan F., 3,435,347.
Elliott, William S., 3,480,888.
Feigleson, Charles O., 3,440,645.
Fenwick, Richard C., 3,426,352.
Fletcher, Daniel W., 3,454,881.
Fritts, Rex E., 3,422,356.
Hardaway, Fred W., 3,421,095.
Hardaway, Fred W., 3,466,430.
Hennessey, Darrell F.; and Rooks, Howard B., 3,430,147.
Hepker, Casswell C., 3,475,656.
Holubar, Melvin J., 3,485,107.
Hutchinson, William M.; and Melvin, William J., 3,432,816.
Hutchinson, William M.; and Williford, Jerry G., 3,448,391.
Johnson, Robert A.; and Teske, Roger J., 3,440,574.
Kemper, Arthur L., 3,465,262.
Kennedy, James M.; and King, James R., 3,453,517.
Kennedy, William A.; and Hardaway, Fred W., 3,475,703.
Kress, Charles E., 3,465,217.
Leming, Thomas L., 3,482,165.
Lohrenz, Marold H., 3,454,960.
Lundgreen, Michael W., 3,436,655.
Lundgreen, Michael W.; Tuthill, Edward G.; and Majerus, John B., 3,478,355.
Majerus, John B., 3,483,548.
Malakoff, Louis, 3,437,932.
Marner, Gene R., 3,465,339.
McCoy, William D., 3,463,938.
Mitchell, Daniel M., 3,441,862.
Oppedahl, Charles A., 3,427,520.
Pitts, Robert Donald; and Zrudsky, Donald R., 3,466,539.
Rhodes, Melvin H., 3,448,297.
Robinson, Eugene A., 3,435,253.
Schmitt, Jerry C., 3,443,239.
Schmitt, Jerry C., 3,456,205.
Schroeder, Klaus G., 3,449,751.
Schroeder, Klaus G., 3,483,563.
Shockley, William L., 3,436,327.
Stover, Harris A., 3,429,999.
Stover, Harris A., 3,461,421.
Templeton, Leslie W., 3,426,140.
Wilkinson, George C., Jr.; and Selman, Hugh L., 3,464,019.

Collins, Richard H., to Microdot Inc., mesne. Method of making sealing strip. 3,455,018, 7-15-69, Cl. 29-527.1

Collins, Robert H.: *See—*
Castrucci, Paul P.; Collins, Robert H.; and Shepheard, Robert G.,3,480,841.

Collins, Robert M. Puncture pad and holder. 3,447,570, 6-3-69, Cl. 138-103.

Collins, Roy R.; and Tait, Sereno R. Shopping cart brake system. 3,458,015, 7-29-69, Cl. 188-29.

Collins, Samuel C., to Five Hundred Incorporated, mesne. Expansion engine for cryogenic refrigerators and liquefiers and apparatus embodying the same. 3,438,220, 4-15-69, Cl. 62-402.

Collins, Stuart A., Jr., to Sperry Rand Corporation. Variable frequency laser. 3,422,370, 1-14-69, Cl. 331-94.5

Collins, Thomas H. Automatic water cut-off water heaters. 3,473,553, 10-21-69, Cl. 137-312.

Collins, Vernon G.: *See—*
Popma, Dan C.; and Collins, Vernon G.,3,444,051.

Collins, Wilbur K. Fruit harvester. 3,485,024, 12-23-69, Cl. 56-328.

Collins, William A., to Rudy Manufacturing Company. Method of constructing a continuous tube finned heat exchanger. 3,440,704, 4-29-69, Cl. 29-157.3

Collinson, Christopher David: *See—*
Forster, Graham Arthur; and Collinson, Christopher David,3,435,650.

Collis, Alec Peter Orme; and Carr, David Ward, to English Electric Valve Company Limited. Vapour cooled discharge tube arrangements. 3,441,081, 4-29-69, Cl. 165-74.

Collis, Ronald T. H. Meteorological lidar system with an improved information display. 3,446,556, 5-27-69, Cl. 356-5.

Collis, William George, to Watson Manasty and Company Limited. Apparatus for projecting multiple superposed images. 3,463,583, 8-26-69, Cl. 353-37.

Collister, Frank C. Key bolt. 3,476,007, 11-4-69, Cl. 85-3.

Collomp, Raymond; and Collomp, Suzanne. Electro-mechanical massage apparatus. 3,468,305, 9-23-69, Cl. 128-57.

Collomp, Suzanne: *See—*
Collomp, Raymond; and Collomp, Suzanne,3,468,305.

Collum, Theodore J. Fire alarm. 3,434,133, 3-18-69, Cl. 340-227.1

Collura, Frank. Solar heat exchanger construction. 3,464,402, 9-2-69, Cl. 126-271.

Collura, Peter C.; Desmond, John D.; Venditti, Arthur P.; and Lesinski, Theodore S., to Container Corporation of America. Package with tear strip. 3,438,563, 4-15-69, Cl. 229-14.

Colman, Derek: *See—*
Mize, Jack P.; and Colman, Derek,3,476,991.

Colman, John E., to Electric Reduction Company of Canada, Ltd. Bipolar electrolytic cell. 3,441,495, 4-29-69, Cl. 204-268.

Colman, John E., to Electric Reduction Company of Canada, Ltd. Bipolar electolytic cell. 3,451,914, 6-24-69, Cl. 204-268.

Colman, Robert, to General Alarm Corporation. Multiple alarm system. 3,466,649, 9-9-69, Cl. 340-384.

Colman, Sade. Removable stirrup for pant leg. 3,426,362, 2-11-69, Cl. 2-232.

Colmery, Benjamin H., Jr.; Hans Linus K., now by change of name; and Hahn, Linus K., to Industrial Nucleonics Corporation. Method and apparatus for measuring. 3,424,902, 1-28-69, Cl. 250-83.3

Coln, Aaron G.: *See—*
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E.,3,438,625.
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E.,3,485,490.

Colnot, Raymond Marcel Emile, to EPM International. Method for handling elongated members. 3,450,280, 6-17-69, Cl. 214-152.

Colodense Limited: *See—*
Samways, Bruce; and Shore, Donald Arthur, 3,425,185.

Cologna, Rudy L., to Thiokol Chemical Corporation. Roll and directional control apparatus for rocket motors. 3,486,698, 12-30-69, Cl. 239-265.25

Colom Grau, Jaime. Finishing and assembling tubular metal slats of roller blinds. 3,447,216, 6-3-69, Cl. 29-24.5

Colomb, Glenn T.: *See—*
Taylor, Bill G.; and Colomb, Glenn T.,3,463,460.

Colombani, Don Pierre Louis Jean: *See—*
Marchal, Raymond Hippolyte Firmin; Colombani, Don Pierre Louis Jean; and Ernst, Adolphe Otton Gontier,3,486,718.

Colombini, Ariano: *See—*
Veronica, Giacinto; Sironi, Giuseppe; and Colombini, Ariano,3,479,177.

Colombo, Charles J., to Siemens Aktiengesellschaft. Method and arrangement for checking of lines in telegraph installations. 3,429,998, 2-25-69, Cl. 178-69.

Colombo, Francesco; and Babcock, Edward V., to United States Borax & Chemical Corporation. Silver nitrate stain removal composition and method for using same. 3,434,796, 3-25-69, Cl. 8-137.

Colombo, Paul V., to Mount Hope Machinery Company. Hydrodynamically balanced rotary valve. 3,443,593, 5-13-69, Cl. 137-625.24

Colombo, Roberto L.: *See—*
Baily, William E.; and Colombo, Roberto L.,3,429,025.

Colombo, Roberto, to S.p.A. Lavorazione Materie Plastiche L.M.P. Screw press for extruding plastic materials. 3,421,182, 1-14-69, Cl. 18-12.
Coloney, Wayne H.: *See—*
Tracy, Charles W.; and Coloney, Wayne H.,3,423,898.
Colonial Beverage Equipment: *See—*
Goldman, Morris, 3,427,779.
Colonial Board Company: *See—*
Sullivan, Richard J., 3,456,365.
Colonial Broach & Machine Company: *See—*
Fulks, James K., 3,431,633.
Fulks, James K., 3,472,123.
Zawacki, Arnold J.; and Jacobson, Eric W., 3,439,398.
Colonial Sugar Refining Company Limited, The: *See—*
Campbell, Ramsey G.; Oldenburg, Charles C.; and Simone, Raymond A., 3,437,652.
Campbell, Ramsey G.; and Oldenburg, Charles C., 3,472,750.
Curtin, John Hedley; and Gagolski, Julian, 3,437,653.
Dwyer, Francis B., 3,426,881.
Gagolski, Julian; and Smythe, Bruce M., 3,469,989.
Gagolski, Julian; and Lilienthal, Bernard, 3,471,613.
Toy, Arthur D. F., 3,428,624.
Colonial Treasurer Incorporated, The: *See—*
Stather, Kenneth, 3,460,284.
Colonna, Angelo. Coffee maker and brewer. 3,429,252, 2-25-69, Cl. 99-281.
Colonna, Angelo. Folding tiolet flush interlock. 3,436,764, 4-8-69, Cl. 4-10.
Color-Sonics, Inc.: *See—*
Schwartz, Henry A., 3,472,579.
Colorado Manufacturing Corporation: *See—*
McLaughlin, William I., 3,478,781.
Colorado Outdoor Sports Corporation: *See—*
Cunningham, Gerald A., 3,447,549.
Colorado School of Mines Foundation, Inc.: *See—*
Fuerstenau, Maurice C.; and Peterson, Hal D., 3,438,494.
Colorado Seminary: *See—*
Blunt, Robert M.; and Keitel, Philip J., 3,453,157.
Colorado State University Research Foundation: *See—*
Lumb, William V., 3,426,364.
Colorado Video Incorporated: *See—*
Southworth, Glen R., 3,478,164.
Coloroll Limited: *See—*
Blair, John, 3,424,067.
Colosimo, Louis E., to Huck Manufacturing Company. Chuck jaw. 3,446,509, 5-27-69, Cl. 279-7.
Colpoys, Patrick J., Jr., to Union Carbide Corporation. Method and article for increasing the permeability of earth formations. 3,437,148, 4-8-69, Cl. 166-308.
Colson, George P., to Engineering Field Services. Alignment method and apparatus for mobile structure. 3,484,136, 12-16-69, Cl. 299-1.
Colson, Thomas C., to Butler Manufacturing Company. Column and beam structure. 3,438,663, 4-15-69, Cl. 287-189.36
Colston, Charles, Limited: *See—*
Gilson, Robert John, 3,464,566.
Colston, John R., to Bowles Engineering Corporation. Accelerometer. 3,450,145, 6-17-69, Cl. 137-81.5
Colston, John R., to Bowles Engineering Corporation. Fluid pressure attenuator. 3,461,895, 8-19-69, Cl. 137-81.5
Colt Manufacturing Company, Inc.: *See—*
Becker, Gordon D.; and Blaauw, Andrew, 3,450,211.
Colter, Gene J., to General Electric Company. System for controlling intermittent and bidirectional operation of motors. 3,426,262, 2-4-69, Cl. 318-313.
Colton, Douglas Roy, to Northern Electric Company Limited. Method and apparatus for producing doped, monocrystalline semiconductor materials. 3,477,959, 11-11-69, Cl. 252-62.3
Colton, Ervin: *See—*
Matkovich, Vlado I.; and Colton, Ervin,3,427,131.
Colton, John White: *See—*
Sherwin, Martin B.; Fox, Sherwood N.; and Colton, John White,3,443,898.
Coltrinari, Enzo L., to Cerro Corporation. Process for the recovery of metals. 3,477,928, 11-11-69, Cl. 204-123.
Colt's Inc.:*See—*
Fremont, Robert D., 3,440,751.
Fremont, Robert D., 3,453,762.
Ito, Kanemitsu, 3,482,322.
Robinson, Russell S., 3,450,050.
Columberg, Alfred: *See—*
Hoegl, Helmut; Rotta, Gotz; and Columberg, Alfred,3,464,968.
Columbia Broadcasting System, Inc.: *See—*
Davis, Ronald N., 3,479,120.
Fender, Clarence L., 3,427,916.
Gabor, Dennis, 3,479,111.
Goldmark, Peter C., 3,420,967.
Goldmark, Peter C.; and Gabor, Dennis, 3,459,885.
Goldmark, Peter C.; and Erde, Bernard, 3,475,549.
Goldmark, Peter C.; and Goldberg, Abraham A., 3,479,447.
Leslie, Donald J., 3,420,941.
Leslie, Donald J., 3,432,608.
McMann, Renville H., Jr., 3,436,473.
McMann, Renville H., Jr., 3,458,652.
McMann, Renville H., Jr., 3,461,224.
McMann, Renville H., Jr., 3,475,548.
McMann, Renville H., Jr., 3,475,555.
McMann, Renville H., Jr., 3,479,450.
McMann, Renville H., Jr., 3,483,315.
Spranger, Paul B., 3,462,553.
Thompson, Josephus B., 3,427,917.
Wistrand, John C.; and Scholze, Alfred O., 3,466,777.
Columbia Carbon Company: *See—*
Callan, John E.; and Topcik, Barry, 3,485,791.
Columbia Cellulose Company Limited: *See—*
Taylor, Richard Perry; and Abson, Derek, 3,479,336.
Columbia Controls Research Corporation: *See—*
Dixon, Harold F. E.; and Vaccaro, Angelo, 3,461,759.
Vaccaro, Angelo, 3,423,732.
Vaccaro, Angelo; and Dixon, Harold F. E., 3,439,133.
Vaccaro, Angelo, 3,460,143.
Columbia Gas System Service Corporation: *See—*
Bloemhard, Walter J., 3,469,408.
Darrow, Richard G.; Morse, William F.; and Reid, Edward A., Jr., 3,470,862.
Fromm, Charles W., 3,459,170.
Teague, Walter Dorwin, Jr.; and Montalbano, Anthony P., 3,451,650.
Teague, Walter Dorwin, Jr.; Montalbanc, Anthony P.; and Fromm, Charles W., 3,468,298.
Teague, Walter Dorwin, Jr., 3,479,831.
Columbia Products Company: *See—*
Priebe, Lawrence W., Jr., 3,466,783.
Scott, Arthur L.; and Trewhella, Stephen W., 3,442,738.
Shepherd, Bob G., 3,426,466.
Columbia Ribbon and Carbon Manfacturing Co., Inc.: *See—*
Newman, Douglas A., 3,458,335.
Columbia Ribbon and Carbon Manufactruing Co., Inc.: *See—*
Newman, Douglas A.; and Schlotzhauer, Allan T., 3,442,681.
Columbia Ribbon and Carbon Manufacturing Co., Inc.: *See—*
Bagnall, George F., 3,446,329.
Brown, Albert E., 3,453,135.
Newman, Douglas A., 3,436,293.
Newman, Douglas A., 3,442,680.
Newman, Douglas A., 3,446,662.
Newman, Douglas A., 3,452,676.
Newman, Douglas A., 3,458,336.
Newman, Douglas A., 3,458,339.
Newman, Douglas A., 3,459,581.
Newman, Douglas A., 3,471,360.
Newman, Douglas A.; and Trecker, William E., 3,472,162.
Newman, Douglas A.; and Trecker, William E., 3,472,164.
Newman, Douglas A.; and Schlotzhauer, Allant T., 3,481,761.
Newman, Douglas A., 3,484,268.
Schlotzhauer, Allan T.; Newman, Douglas A.; and Platz, Warren W., 3,467,539.
Columbia-Summerill Corporation: *See—*
Dimmig, Clarence F., 3,449,937.
Columbian Bronze Corporation: *See—*
Abbott, Douglas T.; and Thompson, William C., 3,477,794.
Columbian Carbon Company: *See—*
Cooper, Frank W., 3,475,530.
Hellwig, Langley R., 3,420,904.
Kirk, James C., 3,462,376.
Marsico, William E., 3,457,186.
Olechowski, Jerome Robert; Chappell, Sterling Frank, III; and Hawkins, John J., 3,457,319.
Pendleton, John F., 3,462,403.
Pobst, David F., Jr., 3,434,808.
Versnel, John, 3,455,886.
Wadsworth, Francis T., 3,429,940.
Columbian Rope Company: *See—*
Orser, Keith L., 3,447,301.
Columbian Slides, Inc.: *See—*
Kowack, Frank J., 3,428,369.
Columbus, Peter Spiros; and Erikson, Carl Reinhold, to Borden Company, The. Hot and cold water redispersible polyvinyl acetate adhesives. 3,442,845, 5-6-69, Cl. 260-29.6
Columware, Inc.: *See—*
Maxson, Darwin B.; and Morrison, Delbert I., 3,458,089.
Scheffer, Joseph F.; and Nail, Billie G., 3,481,512.
Colurn Manfacturing Company, Inc.: *See—*
Suddarth, Jack M.; and Stith, Joe D., 3,458,956.
Colutron Corporation: *See—*
Wahlin, Lars E., 3,465,244.
Colvin, Alex D., to Ford Motor Company. Apparatus for electron beam control. 3,469,139, 9-23-69, Cl. 313-74.
Colvin, Alex D.; Nilssen, Oke K.; and Turner, Allen H., to Ford Motor Company. Window support and heat sink for electron-discharge. 3,440,466, 4-22-69, Cl. 313-35.

Colvin, Donald W.; Comeau, John C.; and Kulick, Frederick, to Honeywell Inc. Remote object orientation measuring device. 3,443,872, 5-13-69, Cl. 356-147.
Colvin, Donald W.; and Kulick, Frederick, to Honeywell Inc. Three axis optical alignment apparatus. 3,486,826, 12-30-69, Cl. 356-141.
Colvin, Donald; and Schultz, Vernon A., to Simplex Manufacturing Co. Electrolytic cell for chlorine production. 3,476,675, 11-4-69, Cl. 204-242.
Colvin, Ronald L.; and Manske, Wendell J., to Minnesota Mining and Manufacturing Company. Target toy device. 3,486,752, 12-30-69, Cl. 273-102.1
Colvson, L. V., to Burroughs Corporation. Ramp-type waveform generator. 3,444,394, 5-13-69, Cl. 307-261.
Colwell, Arthur John; Watson, Ian Alexander; and Penney, John Harper Malcolm, to Elliott Brothers (London) Limited. Aircraft automatic pilots. 3,425,649, 2-4-69, Cl. 244-77.
Colwell, Otha Leroy, to Felt Products Mfg. Co. Cylinder sleeve seal. 3,432,177, 3-11-69, Cl. 277-205.
Colwill, Herbert W.: *See—*
Bing, John H.; Vagedes, Lawrence J.; Luthman, Paul A.; and Colwill, Herbert W.,3,458,088.
Colyer, Duard B.; and Fleming, Robert B., to General Electric Company. Porous metal and plastic heat exchanger. 3,477,504, 11-11-69, Cl. 165-164.
Comalco Aluminium (Bell Bay) Limited: *See—*
Strong, Frederick James; and Bainbridge, Ian Frank, 3,471,286.
Coman, William E., to Bendix Corporation, The. Aircraft starter control. 3,440,433, 4-22-69, Cl. 290-38.
Comar, Dominique; and Le Poec, Claude, to Commissariat a l'Energie Atomique. Process and apparatus for analysis of neutron activation of an element in liquid samples. 3,479,508, 11-18-69, Cl. 250-83.
Comar Electric Company: *See—*
Auer, William F.; Bonovitz, James J.; and Valleau, Robert L., 3,451,019.
Fendler, Lawrence B.; and Auer, William F., 3,486,048.
Comas, Jorge Rectoret. Pattern control apparatus for a knitting machine. 3,477,254, 11-11-69, Cl. 66-69.
Comber, William R.: *See—*
Allen, Dee Dexter; and Comber, William R.,3,458,029.
Comber, William R.; and Hoekje, Harverd J., to U.S. Industries, Inc., mesne. Egg washing means. 3,453,674, 7-8-69, Cl. 15-3.13
Combes, Georges Andre: *See—*
Boissier, Jacques Robert; and Combes, Georges Andre,3,459,854.
Combes, Marvin G.: *See—*
Bryant, Austin U.; and Combes, Marvin G.,3,425,662.
Combes, Marvin G.; and Ray, Harold T., to Grove Valve and Regulator Company. Valve bonnet construction method. 3,460,224, 8-12-69, Cl. 29-157.1
Combined Locks Paper Co.: *See—*
Muggleton, Gerald D., 3,485,209.
Combridge, John Hayden; and Collingwood, John Douglas. Telephone calling tone circuit. 3,466,403, 9-9-69, Cl. 179-84.
Combs, Herbert M. Submersible sea train. 3,478,711, 11-18-69, Cl. 114-16.
Combs, Milford M. Device for use in moving bed patients. 3,458,878, 8-5-69, Cl. 5-92.
Combs, Ollah: *See—*
Trimble, Cebern B.; Mo, Frank S. C.; and Combs, Ollah,3,478,341.
Combs, William H.; Craig, Sam N.; and Barland, Lance C., to Wascon Systems, Incorporated. Screw press. 3,426,677, 2-11-69, Cl. 100-117.
Combustion Engineering , Inc.: *See—*
Romanos, Nicholas D., 3,420,297.
Combustion Engineering, Inc.: *See—*
Adams, John N., Jr.; Martin, Bill G.; and Brown, James O., 3,481,681.
Andresen, Lorenz J.; and Halloran, John J., Jr., 3,428,247.
Andresen, Lorenz J.; and Halloran, John J., Jr., 3,428,248.
Anthony, Andrew J.; and Viets, Adolph W., Jr., 3,423,287.
Anthony, Andrew J., 3,480,510.
Barger, John J.; and Madewell, George R., 3,482,076.
Bertone, Louis A., 3,486,974.
Bevilacqua, Frank, 3,425,903.
Bevilacqua, Frank; and Meijer, Christoffel H., 3,437,556.
Bevilacqua, Frank; and West, John M., 3,459,635.
Bonnamy, Philippe Jean-Francois, 3,452,953.
Bunger, Robert C., 3,421,635.
Burrus, Bill S., 3,451,378.
Burrus, Bill S., 3,455,114.
Burrus, Bill S., 3,458,218.
Burrus, Bill S., 3,465,531.
Burrus, Bill S., 3,477,236.
Carter, Donald E., 3,475,230.
Carter, Donald E.; and Hurst, Kenneth, 3,475,231.
Clayton, William H., Jr., 3,467,067.
Dalenberg, John F.; Todd, Elmer H.; and Carpenter, John W., 3,465,971.
Dixon, John S.; and Smith, Joseph W., 3,450,397.
Evans, Frederick P., 3,423,941.
Fernandes, John H., 3,473,331.
Ferrin, Charles R., 3,475,950.
Fisher, Richard L., Jr.; and McLain, James L., 3,475,813.
Francis, Alex W., Jr.; and Maher, Joseph L., 3,441,499.
Francis, Alex W., Jr.; and Maher, Joseph L., 3,453,205.
Freiday, Jay H., 3,477,823.
Frey, Donald J.; and Roerden, Rudolph F., 3,486,834.
Garrett, Carlos J., Jr., 3,467,036.
Garrett, Carlos J., Jr., 3,467,069.
Graham, Ollie W., 3,456,679.
Hochmuth, Frank W.; and Freiday, Jay H., 3,434,531.
Jacobs, Martin; and Roccatagliata, Raul J., 3,461,847.
Kalika, Peter W., 3,420,195.
Kochey, Edward L., Jr., 3,431,027.
Kochey, Edward L., Jr., 3,469,446.
Krawiec, Donald M., 3,475,273.
Kreimann, Herbert H.; and Rickard, Earl K., 3,447,492.
Lavery, Charles A.; and Meyer, Paul E., 3,469,373.
Leach, Pembroke O.; Jackson, William P.; and Camp, Vernon W., 3,423,563.
Lorentz, Roy E., Jr., 3,467,809.
Lowd, Judson D., 3,469,402.
Mail, Isaac Paul; and Copple, William E., 3,446,488.
Meyers, Charles O.; and Coggins, Robert W., 3,450,603.
Nelson, Hugh Wharton; and Norton, Charles L., 3,447,895.
Oliver, Richard M., 3,426,681.
Osterman, Joseph, 3,472,186.
Patterson, Robert C.; and Micheller, Rudolph J., 3,467,066.
Pearl David R., 3,444,831.
Rathburn, Lloyd C., 3,437,581.
Rickard, Earl K.; and Martinez, Orlando, Jr., 3,426,734.
Rickard, Earl K.; and Kreimann, Herbert H., 3,436,786.
Rickert, Royce J., 3,481,832.
Romanos, Nicholas D., 3,445,918.
Schroedter, Willburt W., 3,434,460.
South, Arthur John, 3,461,846.
Stalph, Gunter J., 3,430,645.
Stern, Fred M., 3,432,389.
Taylor, Herbert E.; Pearl, David R.; and Wolfson, Lawrence S., 3,435,578.
Taylor, Herbert E.; and Pearl, David R., 3,447,493.
Tibbetts, Owen D., 3,487,292.
Triggs, Leonard E.; and Hedges, Robert B., 3,435,805.
Vernon, James C., 3,446,191.
Combustion Equipment Company: *See—*
Bjerkan, Theodore J., 3,482,825.
Comdata Corporation: *See—*
Jensen, Raymond W., 3,454,153.
Comeau, Charles P.: *See—*
Keiper, Francis P., Jr.; and Comeau, Charles P.,3,484,622.
Comeau, George O.: *See—*
Ordway, Richard S., 3,426,973.
Comeau, George O.; Laurence, Leonard J.; and Ordway, Richard S., to Circle Machine Co., Inc., mesne. Apparatus for treating the margins of sole members. 3,466,683, 9-16-69, Cl. 12-17.
Comeau, John C.: *See—*
Colvin, Donald W.; Comeau, John C.; and Kulick, Frederick,3,443,872.
Comel International Corporation: *See—*
Frey, Cleon F., 3,486,153.
Comer, Marvin H.; and Fain, Bobby Ray, to Alamance Industries, Inc. Method of false-twisting thermoplastic yarn. 3,423,924, 1-28-69, Cl. 57-157.
Comer, Robert C., to Astrosystems International, Inc. Double-acting explosive actuator. 3,442,179, 5-6-69, Cl. 91-420.
Comerford, Thomas G.: *See—*
Connell, James; and Comerford, Thomas G.,3,436,558.
Comet Industries, Inc.: *See—*
Kostur, J Edward, 3,466,355.
Kostur, Robert E., 3,446,096.
Comet Packaging Corporation: *See—*
Cohen, Robert, 3,425,618.
Cometa: *See—*
Laurent, Bernard, 3,474,396.
Cometta, Carl: *See—*
Maeder, Paul F.; and Cometta, Carl,3,457,782.
Comey, Kenneth R., Jr.; and Durst, George, deceased0 (by Mc Intyre, John W.0Henry, Edmund F.; administrators), to Texas Instruments, Incorporated. Silver base alloy for making electrical contacts. 3,477,845, 11-11-69, Cl. 75-173.
Comey, Kenneth R., Jr.; and Santala, Teuvo J., to Texas Instruments, Incorporated. Silver base alloy for making electrical contacts. 3,472,654, 10-14-69, Cl. 75-173.
Comfort, Edward H.: *See—*
Dropkin, David; O'Connor, Thomas J.; Cass, Le A.; and Comfort, Edward H.,3,453,880.

Cominassi, Adolphe; and Danko, Etienne, to Mobelec Societe Anonyme Holding. Multi-purpose electrical power apparatus. 3,454,780, 7-8-69, Cl. 307-17.
Cominassi, Adolphe; and Danko, Etienne, to Mobelec Societe Anonyme Holding. Multi-purpose power supply apparatus for providing alternating or direct current. 3,473,040, 10-14-69, Cl. 307-11.
Cominco Ltd.: *See—*
Bushell, Charles H. G.; and Hirsch, Horst E., 3,482,688.
Bushell, Charles Herbert George; Hirsch, Horst Eberhard; and Lauer, Randolph Mathias, 3,462,016.
Bushell, Charles Herbert George; and Hirsch, Horst Eberhard, 3,462,017.
Liang, Sou Chu; and Shaw, George, 3,433,627.
Reynolds, John Windley, 3,469,641.
Comisac, Steve. Heated dump truck body. 3,472,548, 10-14-69, Cl. 296-28.
Comitetul de Stat Pentru Cultura Si Arta: *See—*
Sziksay, Anton, 3,473,457.
Comley, William, Jr.: *See—*
Halfhill, Donald W.; and Comley, William, Jr.,3,441,728.
Comlossy, Frederic B.: *See—*
Sears, Vernon F.; MacDonald, William D.; and Comlossy, Frederic B.,3,441,959.
Comly-Gillam Carton Corporation: *See—*
Gillam, Edward D., 3,455,497.
Commander Board International, Inc.: *See—*
Edwards, Lindell N., 3,458,945.
Commercial Builders Corp.: *See—*
Nowak, Ervin K.; and Graef, Luther W., 3,436,886.
Commercial Carpet Corporation: *See—*
Leibowitz, Martin L.; and Knight, Sanford, 3,458,032.
Saunders, James L.; and Polimeni, Vincent, 3,475,871.
Snyder, John M., 3,449,834.
Snyder, John M., 3,456,346.
Commercial Filters Corporation of California, Inc.: *See—*
Smith, Richard G., 3,448,716.
Commercial Machinery Corporation: *See—*
Polack, Robert M., 3,467,771.
Commercial Radio-Sound Corp.: *See—*
Schneider,Arthur W., 3,434,040.
Commercial Shearing & Stamping Company: *See—*
Boop, John L.; and Hodgson, Robert F., 3,421,769.
Hodgson, Robert F.; Petro, John D.; and Turko, John D., 3,481,364.
Hodgson, Robert F.; and Williams, Arthur J., 3,482,590.
Hodgson, Robert F., 3,482,600.
Taradash, Samuel; and Chlumecky, Nicholas, 3,483,706.
Williams, Arthur J., 3,457,951.
Commercial Solvents Corporation: *See—*
Abbott, Richard L.; and Stengel, Leonard A., 3,475,153.
Bachman, Marvin C.; and Hidy, Phil H., 3,453,367.
Baldwin, Robert S., 3,431,341.
Baldwin, Robert S., 3,441,646.
Bronstein, Jesse B., Jr., 3,465,675.
Bronstein, Jesse B., Jr., 3,478,115.
Brumfield, Pilip E., 3,472,899.
Cockerham, Lloyd E., 3,450,663.
Dowling, Thomas P., 3,472,166.
Frump, John A., 3,437,693.
Gagliardi, Domenick D., 3,423,349.
Griffith, George L., 3,423,256.
Griffith, George L., 3,456,357.
Griffith, George L.; and Schwoyer, William L., 3,457,128.
Harned, Roger L., 3,451,891.
Harned, Roger L., 3,475,274.
Hodge, Edward B., 3,428,525.
Jones, Lawrence R., 3,475,177.
Kern, Forrest L.; Schwoyer, William L.; and Dowling, Thomas P., 3,431,849.
Mc Whorter, Charles J.; and Clark, Edgar L., 3,468,826.
Miescher, Guido M., 3,455,786.
Minnick, Joseph J., 3,447,982.
Newell, Robert H., 3,429,776.
Pals, Lowell D., 3,468,825.
Reich, Murray H.; and Rothwachs, Aaron, 3,445,437.
Runge, Wallace F., 3,487,022.
Schwoyer, William L., 3,461,007.
Tindall, John B., 3,428,684.
Tindall, John B., 3,480,516.
Tindall, John B., 3,480,517.
Tindall, John B., 3,480,518.
Wehrmeister, Herbert L., 3,436,223.
Wehrmeister, Herbert L., 3,466,308.
Wehrmeister, Herbert L., 3,466,309.
Wolf, Calvin N.; and McMahon, Joseph F., 3,440,276.
Wyler, Joseph A., 3,479,236.
Commercial Testing & Engineering Co.: *See—*
Langtry, Robert W.; Shepherd, Richard, 3rd; and Clark, Earl A., 3,447,381.
Commins, Noel. Apparatus for preventing theft of a vehicle. 3,439,771, 4-22-69, Cl. 180-114.
Commissariat a l'Energie Atomique:*See—*
Accary, Andre; Magnier, Pierre; and Marchal, Michel, 3,428,717.
Anthony, Anne-Marie nee Barbier; Foex, Marc; and Yerouchalmi, David, 3,475,352.
Auchapt, Pierre; Girard, Bernard; and Sautray, Roger, 3,445,346.
Baque, Pierre; and Darras, Raymond, 3,480,430.
Bathellier, Andre, 3,476,787.
Beauval, Jean-Jacques; Duhem, Jean; and Pacchioni, Antenore, 3,427,927.
Ben Mena, Taoufik; Chabbal, Robert; and Gerstenkorn, Simon, 3,475,100.
Blum, Pierre; and Devillard, Jacques, 3,442,321.
Boiziau, Claude, 3,449,659.
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves, 3,444,098.
Bougon, Michel, 3,447,434.
Bougon, Michel; Hugues, Edgard; and Poivilliers, Jean, 3,485,547.
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel, 3,471,257.
Brebant, Charles; Labet, Jacques; and Mosse, Pierre, 3,485,548.
Bressat, Rene; De Calmes, Alain; Claudel, Bernard; and Trambouze, Yves, 3,459,682.
Briand, Alain, 3,428,770.
Briffaud, Georges, 3,430,044.
Brigot, Camille; Droussent, Roger; and Commissriat a l'Energie Atomique,3,482,304.
Brion, Jacques; Cousin, Michel; Talejkinski, Wulf; and Volk, Andre, 3,479,800.
Carpentier, Serge; Delarue, Roger; Francois, Henri; Grand-Clement, Anne-Marie; Portal, Guy; and Soudain, Georges, 3,449,136.
Charlade, Jean, 3,441,897.
Charlade, Jean, 3,469,639.
Chedeville, Christian; and Lions, Noel, 3,486,370.
Chemla, Marius; Dirian, Gregoire; and Perie, Michele, 3,447,898.
Chevallier, Jacques; and Havard, Jean, 3,448,797.
Cimetiere, Claudette; Desroches, Jean; and Routier, Claude, 3,459,513.
Cogez, Paul Antoine Alexandre; Conte, Madeleine Marcelle; and Sabatier, Jacques Georges Robert, 3,464,706.
Comar, Dominique; and Le Poec, Claude, 3,479,508.
Consoli, Terenzio; Dupas, Lucien; and Leroy, Jean, 3,425,902.
Cornu, Maurice; and Khau Van Kien, Louis, 3,442,250.
Cottignies, Stanislas, 3,428,808.
Courvoisier, Pierre; and Lambert, Irma, 3,464,789.
Cousin, Philippe; and Roche, Rene, 3,425,812.
D'Albis, Antoine; Yerouchalmi, David; and Bouillon, Bernard, 3,423,611.
Degryse, Michel; and Riolfo, Rene, 3,454,366.
Dieval, Michel; Dupoux, Jean; Joffre, Henri; and Pradel, Jacques, 3,448,269.
Dubois, Andre; and Sadoune, Joseph, 3,487,256.
Durand, Georges; and Kosztolanyi, Charles, 3,423,583.
Feutrel, Claude; Loubet, Michel; and Luce, Gerard, 3,466,975.
Foulquier, Henri; and Peyrot, Jean-Pierre, 3,441,710.
Foulquier, Henri; Roudier, Rene; and Thome, Paul, 3,454,740.
Foulquier, Henri; Roudier, Rene; and Thome, Paul, 3,463,899.
Ganouna-Cohen, Gilbert, 3,436,542.
Gautherin, Guy; and Septier, Albert, 3,441,732.
Gerard, Victor; and Palomo, Georges, 3,449,968.
Germond, Philippe; and Dupuy, Gerard, 3,481,833.
Gollion, Henri-Jacques; Robin, Marcel; and Schwab, Bernard, 3,421,978.
Goupil, Jean, 3,423,587.
Guilbaud, Georges; and Soffer, Jacques, 3,448,390.
Guillot, Claude; and Peuchmaur, Alphonse, 3,442,060.
Guth, Jean-Louis; and Wey, Raymond, 3,433,736.
Hasquenoph, Jean; and Legendre, Claude, 3,424,017.
Javellaud, Jean; Robin, Marc; and Dupuy, Gerard, 3,454,465.
Jouault, Pierre, 3,438,179.
Kassel, Charles; Sachnine, Philippe; and Vuillemey, Roland, 3,486,987.
Kerjean, Joe, 3,484,613.
Klein, Jacques; and Mansard, Bernard, 3,440,770.
Kremer, Marcelle, 3,449,065.
Langer, Philippe, 3,422,307.
Lansiart, Alain; Morucci, Jean Pierre; and Roux, Georges, 3,449,573.
Laviron, Edouard, 3,438,004.
Le Coz, Francois; Mombaxet, Rene; and Raynaud, Noel, 3,431,618.
Lefevre, Jean; Prospert, Jacques; and Raggenbass, Andre, 3,485,763.
Lundy, Claude; and Pouliquin, Marc, 3,424,015.
Mahieu, Claude; Lepeintre, Marcel; and Monjou, Jacques, 3,466,238.

Manevy, Georges, 3,450,509.
Maria, Alain; Patigny, Pierre; and Perie, Daniel, 3,450,639.
Menissier, Pierre Lucien, 3,457,830.
Minjolle, Louis, 3,462,060.
Portal, Guy; and Aouizerate, Marc, 3,443,094.
Portal, Pierre; and Trieule, Andre, 3,436,948.
Pouderoux, Pierre, 3,428,119.
Prost, Gerard; and Sole, Jean, 3,479,569.
Reboux, Jean, 3,461,215.
Rebut, Paul-Henri; and Torossian, Antoine, 3,470,454.
Ricateau, Pierre, 3,465,179.
Rodi, Lucienne; and Lefillatre, Guy, 3,483,128.
Rostaing, Michel, 3,431,080.
Roth, Etienne; and Lefrancois, Bernard, 3,479,140.
Rouge, Pierre; Roze, Michel; and Vivien, Jean, 3,425,908.
Salmon, Benjamin, 3,463,388.
Salvi, Antoine, 3,441,838.
Salvi, Antoine; and Glenat, Henri, 3,441,841.
Sauve, Charles, 3,451,240.
Tetart, Emile E., 3,439,521.
Ulmann, Paul, 3,474,783.
Vandenbussche, Gerard, 3,434,334.
Vautrey, Louis, 3,432,047.
Vieira, David Da Costa, 3,478,586.
Wang, Robert; and Yerouchalmi, David, 3,424,541.
Weil, Louis; and Bonnin, Bernard, 3,423,824.
Yerouchalmi, David, 3,428,834.
Yerouchalmi, David, 3,430,082.
Yerouchalmi, David, 3,432,715.
Yerouchalmi, David; and Zettwoog, Pierre, 3,450,905.
Yerouchalmi, David, 3,454,798.
Yerouchalmi, David, 3,479,538.

Commodity Marketers, Inc.: *See*—
Kliewer, George G.; and Roberts, John H., 3,474,489.
Kliewer, George G., 3,479,876.

Commonwealth Pencil Company, Inc.: *See*—
Phelps, Calvert M., 3,470,774.

Commonwealth Scientific and Industrial Research Organization: *See*—
Flanagan, George Francis, 3,423,810.
Flanagan, George Francis, 3,458,906.
Foley, Ernest; and Herwig, George L., 3,464,900.
McKinnon, Neil Alexander; Bennett, Colin Earl Garnsworthy; Williams, Lloyd Stuart; and McTaggart, Frederick Kenneth, 3,432,296.
Mills, John Cunningham, 3,476,936.
Peck, Adrian J.; and Rabbidge, Ralph M., 3,455,147.
Swan, John Melvin; and Gregory, Jocelyn Margaret, 3,445,484.
Walls, Gordon W., 3,443,370.
Walsh, Alan; and Sullivan, John V., 3,433,963.

Communication Systems, Incorporated: *See*—
Kandoian, Armig G.; and Marchand, Nathan, 3,427,622.
Sichak, William, 3,480,867.

Communications, Inc.: *See*—
Hoovler, William S., 3,453,638.

Communications Patents Limited: *See*—
Birt, David Robin, 3,435,378.
Flower, Maurice Shirley; and Gasson, Roy Alfred George, 3,422,207.
Gabriel, Ralph P.; and Kinross, Rupert I., 3,433,890.
Learney, Lewis Philip; and Rogers, Ernest William, 3,451,013.

Communications Satellite Corporation: *See*—
Andrikian, Charles P., 3,452,298.
Battail, Gerard Pierre; and Brossard, Pierre Claude, 3,470,477.
Podraczky, Emeric I., 3,460,148.
Schmidt, William G., 3,484,782.
Wachs, Marvin R., 3,477,042.

Compa, Russell Edward; and Liebowitz, Marvin, to Colgate-Palmolive Company. Process for making variegated soap. 3,485,905, 12-23-69, Cl. 264-75.

Compacker, Inc.: *See*—
Shuh, Lewis M.; and Tucker, Richard W., 3,425,393.

Compagnia Italiana Westinghouse Freni E. Segali: *See*—
Di Bartolomeo, Giacomo, 3,442,398.

Compagnia Italiana Westinghouse Freni E Segnali: *See*—
Di Bartolomeo, Giacomo, 3,477,743.

Compagnie d'Applications Mecaniques a l' Electronique, au Cinema et a l' Atomistique:*See*—
Guernet, Jacques, 3,426,193.

Compagnie de Construction Mecanique Procedes Sulzer: *See*—
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel, 3,471,257.
Roth, Etienne; and Lefrancois, Bernard, 3,479,140.

Compagnie de Saint-Gobain: *See*—
Bathellier, Louis; and Cheesman, Harry, 3,431,698.
Boivent, Marcel, 3,443,921.
Bourgeaux, Maurice; and Peyches, Pierre Ivan, 3,437,469.
Bourggraff, Robert; and Hainke, Georg, 3,457,058.
Chatelain, Roger; and Bouis, Hugues, 3,474,944.
Chaumont, Henri Jules, 3,430,399.
D'Huart, Guy, 3,442,748.
deLajarte, Stephane Dufaure, 3,427,142.
DeLajarte, Stephane Dufaure; and Bourgeaux, Maurice, 3,468,649.
Evers, Manfred, 3,486,995.
Godron, Yves Georges, 3,481,749.
Goerens, Robert, 3,445,207.
Hainke, Georg, 3,459,524.
Heymes, Pierre Rene, 3,449,101.
Jean, Henri; and Thibault, Claude, 3,428,604.
Jobard, Michel, 3,475,398.
Jorgensen, Pierre Charles, 3,467,819.
Kelly, Jean, 3,475,152.
Kunert, Heinz; and Biermann, Wilhelm, 3,427,770.
Navez, Maurice; and Bezombes, Albert, 3,468,745.
Nedelec, Maurice; and Chaumont, Henri, 3,449,102.
Nedelec, Maurice, 3,459,521.
Rullier, Robert; and Drouet, Michel, 3,473,988.
Trezain, Claude; and Cosnard, Jean Claude, 3,423,165.
Trezsin, Claude; and Cosnard, Jean Claude, 3,423,164.

Compagnie des Ateliers et Forges de la Loire: *See*—
Gay, Pierre, 3,427,848.
Guillot, Claude, 3,429,165.
Paret, Pierre, 3,420,755.

Compagnie des Compteurs: *See*—
Cytrin, Oscar, 3,482,840.
Frayssinoux, Roland Francois Edouard, 3,440,879.
Guillemin, Germain Joseph Edmond, 3,460,029.
Janssen, Sylvain Jean, 3,448,605.
Muger, Martial Henri Mathias, 3,442,128.
Muger, Martial Henri Mathias, 3,448,614.
Muger, Martial Henri Mathias, 3,456,507.
Soupenne, Henri, 3,471,085.
Soupenne, Henri, 3,471,086.

Compagnie des Freins et Signaux Westinghouse: *See*—
Desthuilliers, Jean-Pierre, 3,472,560.

Compagnie des Machines Bull (Societe anonyme): *See*—
Ferrier, Pierre Alfred; and Lesueur, Marc Charles Joseph, 3,425,044.

Compagnie des Metaux d'Overpelt-Lommel et de Corphalie, S.A.:*See*—
Nicaise, Robert C.; and Donneau, Pascal J. J., 3,451,805.

Compagnie du Filage des Metaux et des Joints Curty (Cefilac): *See*—
Allais, Philippe, 3,485,753.
Collinet, Andre, 3,423,975.

Compagnie Electro-Mecanique Societe Anonyme: *See*—
Bidard, Rene, 3,432,694.
Feugeas, Paul, 3,450,976.

Compagnie Financiere et Commerciale: *See*—
Smadja, Jean Claude, 3,479,768.

Compagnie Francais de Raffinage: *See*—
Tannenberger, Helmut; and Schachner, Herbert, 3,442,713.

Compagnie Francaise de Raffinage: *See*—
Olivier, Jean Joseph Pierre, 3,485,606.
Tannenberger, Helmut; and Schachner, Herbert, 3,451,911.
Weisang, Edouard J.; and Maurin, Jean D., 3,467,580.

Compagnie Francaise de Television: *See*—
Driffort, Jean Pierre; and Lebel, Pierre, 3,475,639.
Melchior, Gerard, 3,471,635.
Melchior, Gerard, 3,485,942.

Compagnie Francaise Thomson-Houston, International Division: *See*—
Rouxel, Roland; and Helein, Jean G., 3,480,765.

Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt: *See*—
Alfandari, Roger; and Daveau, Bernard, 3,448,450.
Alfandari, Roger S.; and Daveau, Bernard J., 3,448,455.
Beurtheret, Charles A., 3,455,376.
Beurtheret, Charles A.; and Boissiere, Jacques G., 3,435,283.
Billon, Guy M.; and Daveau, Bernard J., 3,435,380.
Carton, Jean, 3,478,810.
Delvaux, Jean L. L., 3,424,861.
Delvaux, Jean Leon Lucien, 3,424,860.
Deman, Pierre, 3,457,512.
Deman, Pierre J. F., 3,441,861.
Deman, Pierre J. F., 3,462,561.
Desormiere, Bernard P. L.; Parouty, Jean Claude; and Piechon, Andre L., 3,441,837.
Driard, Bertrand M.; and Guyot, Lucien Francis, 3,439,222.
Galipon, Jean, 3,455,522.
Gerlach, Pierre, 3,449,625.
Gerlach, Pierre, 3,473,073.
Gosmand, Roland P., 3,466,196.

Hai, Nhu Bui; and Sturbois, Pierre, 3,426,351.
Ruppli, Michel, 3,484,698.
Sarrois, Jean M., 3,449,616.
Skenderoff, Claude; and Symaniec, Leonidas, 3,483,557.
Trotel, Jacques, 3,457,726.
Compagnie General des Produits Industriels et de Synthese C.O.G.E.P.R.I.S.:*See*—
Paoli, Andre G., 3,484,513.
Compagnie Generale de Forages C.O.F.O.R.: *See*—
Novet, Gabriel, 3,452,546.
Compagnie Generale de Geophysique: *See*—
Loeb, Julien M., 3,483,753.
Compagnie Generale d'Electricite:*See*—
Barbini, Spartacus, 3,480,876.
Biet, Jean-Pierre; and Benoit, Jacques L., 3,452,206.
Boulet, Francis; and Polledri, Jean, 3,461,546.
Chaupit, Jean; and Nigra, Jacques, 3,469,165.
Choffart, Pierre, 3,433,885.
Comte, Georges, 3,436,141.
Derippe, Jean Marie, 3,448,422.
Donadieu, Lucien; Kloeckner, Edmond; Aupox, Marcell; and Royet, Jean, 3,470,508.
Donadieu, Lucien; Royet, Jean; and Maldy, Jacques, 3,474,187.
Donadieu, Lucien J., 3,431,523.
Dumanchin, Roger, 3,461,402.
Eyraud, Yvan, 3,451,203.
Forrat, Francis; and Jansens, Richard, 3,420,780.
Foucry, Jean, 3,479,228.
Gallet, Georges; and Guenel, Claude, 3,425,641.
Klein, Georges, 3,428,836.
Klein, Georges, 3,439,305.
Laures, Pierre, 3,464,760.
Milochevitch, Alexandre; and Rousseau, Serge, 3,480,874.
Richez, Jacques; Dubois, Andre; Battentier, Jean-Claude; Thoris, Jean; and Parizot, Daniel, 3,475,627.
Robieux, Jean; and Auclair, Jean-Michel, 3,443,087.
Rocherolles, Raymond, 3,449,693.
Toulemonde, Jacques; and Gallay, Maurice, 3,469,171.
van Tran, Nguyen; and Kehl, Denis, 3,486,129.
Compagnie Generale D'Electro-Ceramique:*See*—
Huc, Jean M., 3,470,308.
Compagnie Generale d'Entreprises Electriques:*See*—
Verneau, Marcel, 3,430,190.
Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie: *See*—
Boileau, Jacques, 3,426,821.
Boileau, Jacques, 3,438,309.
Lejeune, Daniel, 3,443,721.
Lejeune, Daniel, 3,447,571.
Lejeune, Daniel, 3,453,008.
Massoubre, Jean-Marie, 3,429,948.
Massoubre, Jean-Marie, 3,477,968.
Verdier, Henri, 3,437,120.
Verdier, Henri, 3,450,182.
Verdier, Henri, 3,457,981.
Verdier, Henri, 3,459,252.
Verdier, Henri, 3,464,477.
Verdier, Henri, 3,480,065.
Compagnie Generale du Duralumin et du Cuivere Cegedur:*See*—
Lorain, Roger; and Trompier, Albert, 3,468,016.
Compagnie Gervias Danone: *See*—
Goujard, Marie Pierre, 3,484,356.
Compagnie Industrielle de Mecanismes: *See*—
Boyriven, Paul, 3,473,835.
Compagnie Industrielle de Metrologie Trophy: *See*—
Cabantous, Marcel Amans; and Scheiff, Gilbert, 3,452,535.
Compagnie Industrielle de Procedes & d'Applications S.A. (CIPA):*See*—
Godel, Albert, 3,431,892.
Compagnie Industrielle de Travaux: *See*—
Launay, Pierre, 3,447,784.
Compagnie Internationale pour l'Informatique:*See*—
Dreyfus, Bertrand Alain, 3,486,931.
Compagnie Royale Asturienne des Mines: *See*—
Sitges Menendez, Francisco Javier; and Arregui Fernandez, Vicente, 3,434,798.
Compagnie Saliniere de la Camargue 'Salicam':*See*—
Jullien, Agricol, 3,482,672.
Compak-O-Matic, Inc.: *See*—
Benfield, Edward A., 3,433,925.
Companhia Uniao Fabril, S.A.R.L.: *See*—
Frazao, Bartolomeu Capelo Da Foneca Franco, 3,456,510.
Comparetto, John E. Chromatographic plate and method of making same. 3,460,970, 8-12-69, Cl. 117-69.
Compass Container Company, Inc.: *See*—
Turpen, Russell L., 3,451,705.
Turpen, Russell L., 3,478,919.
Compere, Alphonse. Hair curler. 3,430,636, 3-4-69, Cl. 132-34.
Completion Tools, Inc.: *See*—
Hatch, John R., 3,456,725.
Complett S.p.A.: *See*—
Conti, Cesare L., 3,476,064.
Compo Industries, Inc.: *See*—
Carey, Richard J.; and Dunlap, Robert B., 3,434,170.
Dunlap, Robert B.; Peterson, Evald O.; and Von Schoppe, Bertram A., 3,449,933.
Woodman, Charles K., 3,465,711.
Compo Shoe Machinery Corporation: *See*—
Peterson, Evald O., 3,431,806.
Winkler, Julius G., 3,463,849.
Components Corporation: *See*—
Neuman, Werner E., 3,480,896.
Composite Metal Products, Inc.: *See*—
Ulam, John B., 3,445,630.
Compotite Shower Pan: *See*—
Beale, Edwin W., 3,451,178.
Comprehensive Service Corporation: *See*—
Freedman, Myron L., 3,432,113.
Compressed Air Service Company: *See*—
Wright, Lee A., 3,429,233.
Compresseurs Bernard, Curie, Venissieux (Rhone): *See*—
Maurs, Albert, 3,463,383.
Compton, Asa B., to KMS Industrial, Inc., mesne. Sand game and apparatus therefor. 3,447,256, 6-3-69, Cl. 46-1.
Compton, Asa B.; and Musig, Morris D., to KMS Industries, Inc., mesne. Self-driving rolling device. 3,453,773, 7-8-69, Cl. 46-243.
Compton, Asa B.: *See*—
Dyer, James W.; Musig, Morris D.; and Compton, Asa B.,3,484,631.
Dyer, James W.; Musig, Morris D.; and Compton, Asa Berkeley,3,455,049.
Compton, Billy P. Toggle drive actuator. 3,449,974, 6-17-69, Cl. 74-142.
Compton, David D.; and Harlan, David D., to Reynolds Metals Company. Tubular protector and blanks for making same. 3,458,109, 7-29-69, Cl. 229-9.
Compton, Dinsdale M. J.; and Snodgrass, Herschel R., to Gulf General Atomic Incorporated, mesne. Method and apparatus for measuring the power in a light beam. 3,436,152, 4-1-69, Cl. 356-104.
Compton, Harry B.: *See*—
Clement, George F.; Compton, Harry B.; Stagg, Uberto K., Jr.; and Zebe, Charles W.,3,441,681.
Compton, James B.; and Zieber, Frederick L., to Siliconix Inc. Unipolar transistor. 3,453,504, 7-1-69, Cl. 317-235.
Compton, Keith B., to Certipak Corporation. Indexing blanks with respect to groups of receptacles to be enclosed within the cartons formed therefrom. 3,481,104, 12-2-69, Cl. 53-49.
Compton, Richard R., to Zero Manufacturing Company. Apparatus for deburring and cleaning with microscopic glass beads. 3,485,074, 12-23-69, Cl. 72-53.
Compton, Robert H.: *See*—
Murdock, Clayton E.; Pugh, Donald J.; and Compton, Robert H.,3,421,044.
Compur-Werk Gesellschaft mit beschrankter Haftung & Co.: *See*—
Fahlenberg, Paul, 3,466,447.
Fahlenberg, Paul; and Kleeberger, Klement, 3,466,993.
Fahlenberg, Paul; and Singer, Franz, 3,472,142.
Pross, Wilhelm, 3,435,746.
Singer, Franz, 3,421,426.
Singer, Franz, 3,448,672.
Singer, Franz; Fahlenberg, Paul K. G.; and Lermann, Peter, 3,448,673.
Singer, Franz, 3,452,662.
Computer Image Corporation: *See*—
Harrison, Lee, III, 3,483,426.
Computerized Volumetric Conveyance Systems, Inc.: *See*—
Nevo-Hacohen, Jacob I., 3,447,666.
Computing Devices of Canada Limited: *See*—
Hargrove, James L., 3,482,242.
Patterson, Colin D.; and Jefferson, Peter J., 3,425,037.
Comrie, Alan A. D.: *See*—
Dixon, Bernard; and Comrie, Alan A. D.,3,485,720.
Comstock & Wescott, Inc.: *See*—
Lawrence, Willis Thompson, 3,485,216.
Rice, Richard E., 3,459,160.
Rice, Richard E., 3,461,506.
Rice, Richard E., 3,461,507.
Spaulding, David B.; and Wisnia, Jeffry A., 3,437,926.
Comstock, Alfred E. Egg carton and tray dispensing machine. 3,478,924, 11-18-69, Cl. 221-213.
Comstock, Alfred E.; and Wilcox, Burdsal Gardner, to Safeway Stores, Incorporated. Apparatus for cutting block-like articles. 3,433,278, 3-18-69, Cl. 146-78.
Comstock, Daniel F., Jr.; and Richardson, David L., to Little, Arthur D., Inc. Pyromtric device. 3,439,985, 4-22-69, Cl. 356-43.
Comstock, John S., to Hughes Aircraft Company. Triggering mechanism for high speed laser switching. 3,454,898, 7-8-69, Cl. 331-94.5

Comstock, Lowell R.; Hardman, Donald E.; and Brezinski, Julius J., to Union Carbide Corporation. Thermoset vinyl chloride coatings from a mixture of epoxidized addition copolymers and carboxylated addition copolymers. 3,472,914, 10-14-69, Cl. 260-836.
Comstock, Russell E.: *See—*
Gleason, Frank J., Jr.; and Comstock, Russell E.,3,458,121.
Comstock, Theodore R.: *See—*
Tse, Francis S.; and Comstock, Theodore R.,3,473,435.
Comte, Georges, to Compagnie Generale d'Electricite. Hollow wave guide with selectively reflecting inner face. 3,436,141, 4-1-69, Cl. 350-96.
Comunnetti, Angelo, to Gesellschaft zur Forderung der Forschung an der Eidgenossischen Technischen Hochschule. Method of and apparatus for stabilizing the gain of nuclear pulse spectrometers. 3,428,804, 2-18-69, Cl. 250-71.5
Con-Gas Service Corporation: *See—*
Benson, Homer E., 3,421,869.
Con-Rad: *See—*
Burris, Howard T., 3,480,105.
Conabee, Raymond S., to Parker-Hannifin Corporation. Rapid cycle press and hydraulic system therefor. 3,472,026, 10-14-69, Cl. 60-52.
Conant, John E.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,458,651.
Conant, Paul L., Sr., to Collins Radio Company. Electronic circuit - direct coupled totem pole emitter follower. 3,448,396, 6-3-69, Cl. 330-24.
Conant, Theodore A., Jr., to General Precision, Inc. Clock track recorder. 3,473,163, 10-14-69, Cl. 340-173.
CONAP Inc.: *See—*
Houghton, Russell M.; and McElroy, Wilbur R., 3,455,855.
Conard, Arthur Bayard, Jr., to American Machine & Foundry Company. Silencer with curtain of water maintained at discharge orifice. 3,448,824, 6-10-69, Cl. 181-52.
Conaway, Robert Michael: *See—*
Boyer, Charles B.; Conaway, Robert Michael; and Orcutt, Franklin D.,3,466,656.
Conaway, William A.; Johnson, Arthur J.; and Smisko, Joe, to PPG Industries, Inc. Process of preparing barium carbonate by carbonation of aqueous barium sulfide. 3,421,843, 1-14-69, Cl. 23-66.
Conax Corporation: *See—*
Haefner, Arthur E.; Pierson, Edward G.; and Jankowiak, Roman, 3,473,543.
Conboy, Robert J.: *See—*
Pratt, Richard J.; and Conboy, Robert J.,3,484,261.
Concannon, Thomas P., to Du Pont de Nemours, E. I., and Company. Pigment dispersion comprising an iron-containing pigment or a nickel-containing pigment dispersed in a liquid. 3,477,975, 11-11-69, Cl. 260-22.
Concast A.G.: *See—*
Burkhardt, Max Eduard; and Zehnder, Alfred Ernst, 3,468,362.
Thalmann, Armin, 3,436,023.
Concast Incorporated: *See—*
Gricol, Joseph D.; and Schmidt, George E., 3,446,267.
Horsley, Jack O., 3,446,268.
Concentric (Engineering) Limited: *See—*
Walter, Robert Dennis, 3,429,269.
Conch International Methane Limited: *See—*
Crampton, Felix Jeremy Philip; and Wilkinson, Terence Sidwell, 3,440,827.
Ffooks, Roger C., 3,435,983.
Schwendtner, Alfred H., 3,477,606.
Conciatori, Anthony B.; and Smart, Charles L., to Celanese Corporation. Method of preparing vinylidene cyanide-unsaturated sulfonic acid interpolymers. 3,484,416, 12-16-69, Cl. 260-78.5
Conciatori, Anthony B.: *See—*
Chenevey, Edward C.; and Conciatori, Anthony B.,3,433,772.
Conco Inc.: *See—*
Carlson, Arthur B.; Kettleborough, Donald J.; and Schreiber, Lucian L., 3,451,089.
Lo Presti, Roy F.; and Ogden, Charles T., 3,451,090.
Meyers, Anthony P., 3,457,580.
Concrete Conduit Company, Inc.: *See—*
Schack, John B., 3,479,777.
Concrete Development Corporation: *See—*
Varnell, William R.; and Mitchell, Mance R., 3,443,347.
Varnell, William R.; and Mitchell, Mance R., 3,466,778.
Concrete Pipe Machinery Company: *See—*
Waddington, Philip L., 3,452,407.
Waddington, Philip L., Jr., 3,463,426.
Concrete Structures, Inc.: *See—*
Lacy, Johnson W., 3,475,529.
Conde, James C.: *See—*
Bakker, Lubertus; Conde, James C.; and Krumm, Eugene D.,3,486,644.
Condec Corporation: *See—*
Sackler, Albert A.; and Enycart, Raymond J., 3,451,284.
Conder International Limited: *See—*
Harding, John James, 3,440,789.
Conder, Robert L.: *See—*
Stephens, Bernard B.; and Conder, Robert L.,3,457,048.
Condo, Albert C., to Atlantic Richfield Company. Plasticized vinyl chloride polymer compositions. 3,445,416, 5-20-69, Cl. 260-31.8
Condodina, Arthur C.; Niemkiewicz, Ignatius J.; and Shinbaum, Marvin S., to Bliss, E. W., Company. Support apparatus for arresting gear cable. 3,428,275, 2-18-69, Cl. 244-110.
Condolios, Elie, to Societe Grenobloise d'Etudes et d'Applications Hydrauliques (Sogreah). Hydrocyclone separators. 3,437,205, 4-8-69, Cl. 210-84.
Condolios, Elie, to Societe Grenobloise d'Etudes et d'Applications Hydrauliques (Sogreah). Flocculation apparatus. 3,460,678, 8-12-69, Cl. 210-219.
Condon, Stanley: *See—*
Zuercher, John; and Condon, Stanley,3,479,029.
Condorelli, Emanuele: *See—*
Nobile, Luciano; Condorelli, Emanuele; La Noce, Tullio; and Poma, Anteo,3,435,024.
Nobile, Luciano; Condorelli, Emanuele; and Tesei, Carlo,3,472,804.
Condrac, Robert F., to United States Steel Corporation. Pipe joint. 3,476,414, 11-4-69, Cl. 285-349.
Conductron Corporation: *See—*
Breitweiser, Gary C., 3,470,609.
Breitweiser, Gary C., 3,470,610.
Crabtree, Lloyd O.; and Van den Broek, Jan A., 3,427,634.
Edmonds, Thomas Rhys, 3,432,671.
Ingalls, Arthur L., 3,424,512.
Minciotti, Albert A.; and Grau, Richard, 3,439,787.
Moehlenkamp, Donald E., 3,425,445.
Speen, Gerald B.; and Turnblade, Richard C., 3,482,454.
Thomas, Carlton E., 3,450,883.
Thomas, Carlton E., 3,482,102.
Condux-Werk Herbert A. Merges K.G.: *See—*
Hofmann, Karl, 3,458,143.
Condy, Robert J. Dispenser for perforate strip material. 3,456,854, 7-22-69, Cl. 225-11.
Cone, Carroll, to Midland-Ross Corporation. Walking beam furnace. 3,471,134, 10-7-69, Cl. 263-6.
Cone, Charles N.; Hohbach, Dale J.; and Smith, Harold A., to Pacific Adhesives Company, Inc. Making limed blood products for use in alkaline blood glues of normal working viscosity at high water ratios. 3,428,467, 2-18-69, Cl. 106-161.
Cone, Howard M., Jr., to Pan American World Airways, Inc. Aircraft command altitude guidance apparatus. 3,478,310, 11-11-69, Cl. 340-27.
Cone, Lloyd E. Method for making a bobbin assembly. 3,471,607, 10-7-69, Cl. 264-249.
Cone Mills Corporation: *See—*
Fields, Jesse M., 3,457,022.
Cone, Peter F., to United States of America, Air Force. Fotoform-metallic evaporation mask making. 3,458,370, 7-29-69, Cl. 156-11.
Cone, Ronald D.: *See—*
Jennings, Alan K.; Cone, Ronald D.; and Seid, Eugene,3,427,556.
Conetta Manufacturing Company, Inc.: *See—*
Danna, Salvatore R., 3,480,911.
Coney, Charles H.: *See—*
Davis, John H.; and Coney, Charles H.,3,475,356.
Coney, Charles H.; and Draper, Willie E., to Eastman Kodak Company. Temporary protective films from polyolefin dispersions. 3,423,225, 1-21-69, Cl. 117-6.
Coneybear, J. Frank; Chandler, Charles H.; and Andrisin, John J., Jr., to Ocean Spray Cranberries, Inc., mesne. Crusher separator apparatus and method. 3,463,311, 8-26-69, Cl. 209-73.
Confer, Raymond C.: *See—*
Schurman, Peter T.; and Confer, Raymond C.,3,441,071.
Schurman, Peter T.; and Confer, Raymond C.,3,452,125.
Conforti, Fred J.: *See—*
Cole, William J.; and Conforti, Fred J.,3,447,133.
Conforti, Fred J.; and Peterson, Lyn F., to Motorola, Inc. Oscillator circuit with automatic bias control. 3,471,805, 10-7-69, Cl. 331-113.
Schultz, Robert J.; and Conforti, Fred J.,3,453,521.
Congdon, George L., to Burgess Vibrocrafters, Inc. Resonant pulse jet fogger. 3,448,924, 6-10-69, Cl. 239-129.
Conger, Ben D., to Electronic Associates Inc. Integrator rate test system for an analog computer. 3,476,924, 11-4-69, Cl. 235-183.
Conger, Gary L. Sealing device for loading docks and the like. 3,461,627, 8-19-69, Cl. 52-204.
Conger, Robert L.; and Johnson, Jerome H., to United States of America, Navy. Explosive pulse generator. 3,484,627, 12-16-69, Cl. 310-10.
Congleton, Robert S.; and Keister, Frank Z., to Hughes Aircraft Company. Method of fabricating laser cavities. 3,486,217, 12-30-69, Cl. 29-458.
Congleton, Robert S.; and Spaeth, Mary L., to Hughes Aircraft Company. Resonant reflector for laser beam output. 3,471,800, 10-7-69, Cl. 331-94.5

Congleton, Wayne L.: *See—*
Lattis, Donald J.; Congleton, Wayne L.; and Gomez, Jose J.,3,479,759.
Conibeer, George William, to English Electric Company Limited, The. Pump assemblies. 3,422,766, 1-21-69, Cl. 103-103.
Conibeer, George William, to English Electric Company Limited, The. Expansion joints with frozen seals. 3,469,862, 9-30-69, Cl. 285-41.
Coninental Can Company, Inc.: *See—*
Khoury, Nick S., 3,437,229.
Conix, Andre Jan: *See—*
De Keyser, Lodewijk Felix; Conix, Andre Jan; and Van Dessel, Lodewijk August,3,434,840.
Jeurissen, Lambert Gaston; and Conix, Andre Jan,3,444,139.
Jeurissen, Lambert Gaston; and Conix, Andre Jan,3,453,241.
Conix, Andre Jan, to Gevaert Photo-Producten N.V. High molecular weight linear copolyesters of bisphenols and mixtures of orthophthalic and iso- and for terephthalic acids. 3,449,295, 6-10-69, Cl. 260-47.
Conix, Andre Jan; and Dohmen, Leonard Marie, to Gevaert-Agfa N.V. Thermally crystallizable poly (bis-phenol esters) of 3,5-dichloro substituted bisphenol and adipic or succinic acid. 3,448,077, 6-3-69, Cl. 260-47.
Conkle, Carl J.: *See—*
Fisher, Jack M.; and Conkle, Carl J.,3,444,752.
Conkle, Carl J., to Borg-Warner Corporation. Shift lever mechanism with shift rail interlock and stop means. 3,452,614, 7-1-69, Cl. 74-477.
Conklin, Clement L., Jr.; and Holland, Thomas M., Jr., to Martin-Marietta Corporation. Multiple output fluid control system. 3,465,648, 9-9-69, Cl. 91-413.
Conklin, Edward J.: *See—*
Chestochowski, Benjamin A.; Conklin, Edward J.; and Ellison, Cecil A.,3,440,063.
Conklin, Edward J.; and Judge, Leo F., Jr., to Procter & Gamble Company, The. Bath oil composition containing octyl dodecanoate. 3,424,849, 1-28-69, Cl. 424-365.
Conklin, George L.: *See—*
Bell, Stanley C.; and Conklin, George L.,3,452,041.
Bell, Stanley C.; and Conklin, George L.,3,458,501.
Conklin, George W.: *See—*
Fetterly, Lloyd C.; and Conklin, George W.,3,438,997.
Conklin, Harold A., Jr., to Baldwin, D. H., Company. Forward termination means for the speaking length of piano strings and the like. 3,477,331, 11-11-69, Cl. 84-215.
Conklin, Harold A., Jr., to Baldwin, D. H., Company. Hitch pin for stringed instruments. 3,478,635, 11-18-69, Cl. 84-197.
Conklin, Robert M.: *See—*
Satchell, Fred E.; Conklin, Robert M.; and Weisz, John J.,3,445,113.
Conkling, William C., to Wallace & Tiernan Inc. Alarm switching device for variable restriction fluid flow meters. 3,452,170, 6-24-69, Cl. 200-81.9
Conkling, William Collins; and Mosher, Charles William, to Wallace & Tiernan, Inc. Variable restriction fluid flowmeter. 3,425,279, 2-4-69, Cl. 73-209.
Conley, Dwain D.; and Bender, Philip E., to Arvin Industries, Inc. Ironing table top. 3,430,587, 3-4-69, Cl. 108-78.
Conley, Gerald Jay. Live bait holders. 3,435,553, 4-1-69, Cl. 43-49.8
Conley, James W., to General Electric Company. Alloy-junction and metal-semiconductor diode fabrication method. 3,465,417, 9-9-69, Cl. 29-473.1
Conley, Kurt H.; and Tenner, Arnold J., to Entoleter, Inc., mesne. Centrifugal impacting apparatus. 3,430,872, 3-4-69, Cl. 241-55.
Conley, Walter R., Jr.: *See—*
Hansen, Sigurd P.; Botsford, Charles W.; Rice, Archie H.; and Conley, Walter R., Jr.,3,482,695.
Rice, Archie H.; Culp, Gordon L.; Conley, Walter R., Jr.; and Hansen, Sigurd P.,3,482,694.
Conley, William J. Accessory for use in playing word forming game. 3,480,278, 11-25-69, Cl. 273-148.
Conlin, William P., to Tech Acro Incorporated. Connector fitting. 3,486,771, 12-30-69, Cl. 285-39.
Conlon, Thomas E.: *See—*
Cunha, Joseph J.; and Conlon, Thomas E.,3,479,055.
Conlon-Moore Corporation: *See—*
Stender, Orville J., 3,451,464.
Conly, Frank E. Lobster cooling container. 3,427,822, 2-18-69, Cl. 62-461.
Conn, Arnold: *See—*
Richmond, John; and Conn, Arnold,3,422,340.
Conn, C. G., Ltd.: *See—*
Bert, Paul A., 3,477,330.
Greenleaf, Leland B.; and Bryant, James Timothy, 3,421,399.
Shallenberger, Larry R.; and Southard, James S., 3,470,785.
Southard, James S.; and Wolfanger, Curt R., 3,424,850.
Southard, James S., 3,433,880.
Conn, Charles E., Jr.; and Neumann, Robert P., to North American Rockwell Corporation. Roll diffusion bonding method. 3,444,608, 5-20-69, Cl. 29-423.
Conn, Francis Edward, to General Motors Corporation. Flow divider valve assembly insensitive to discharge pressure. 3,421,533, 1-14-69, Cl. 137-101.
Conn, Henry L.: *See—*
Rhinehart, Richard W.; Conn, Henry L.; and Morris, Howard E.,3,460,177.
Conn, Jack Samuel, to Surrey Steel Components Limited. Hydraulic rams. 3,426,774, 2-11-69, Cl. 134-166.
Conn, John B., to Merck & Co., Inc. Halomercuri derivatives of 2,5-oxadiazolidine- diones of basic amino acids and their use in peptide synthesis. 3,459,760, 8-5-69, Cl. 260-299.
Conn, Leroy J. Rigid shaft coupler. 3,476,420, 11-4-69, Cl. 287-119.
Connally, Billie M.: *See—*
Detweiler, William I.; and Connally, Billie M.,3,427,548.
Connally, Carl, Jr.: *See—*
Dotson, Billy J.; and Connally, Carl, Jr.,3,434,542.
Connally, Carl, Jr., to Mobil Oil Corporation. Oil recovery method employing thickened water and crossflooding. 3,429,372, 2-25-69, Cl. 166-245.
Connally, Leslie O.: *See—*
Bawa, Mohendra S.; Connally, Leslie O.; and Truitt, James K.,3,421,863.
Connan, George Bruce, to Dentists' Supply Company of New York, The. Artificial ceramic tooth. 3,449,832, 6-17-69, Cl. 32-8.
Connan, George Bruce, to Dentists' Supply Company of New York, The. Denture base material and method of molding denture base. 3,453,349, 7-1-69, Cl. 264-16.
Connealy, Hugh M., to Gardena Rubber Company. Fluid flow control device. 3,426,789, 2-11-69, Cl. 137-451.
Connecticut Research & Manufacturing Corporation, The: *See—*
Nowosadko, Raymond F., 3,427,707.
Connecticut Scientific Center, Inc.: *See—*
George, Edward T.; and Allen, Irving, 3,453,947.
Connectronics Corporation: *See—*
Bonhomme, Francois Robert, 3,470,527.
Connell, Balfour Y., to General Tire & Rubber Company, The. Expansion joint sealing element. 3,422,733, 1-21-69, Cl. 94-18.
Connell, Calvin C. Multiengine drive arrangement. 3,422,790, 1-21-69, Cl. 115-37.
Connell, James; and Comerford, Thomas G., to Eastman Kodak Company. Safety system for motor operated machines. 3,436,558, 4-1-69, Cl. 307-113.
Connell, Jerry F. Teasing and unsnarling implement. 3,459,199, 8-5-69, Cl. 132-11.
Connell, John Martin; and Gardner, William Austin, to Foster Wheeler Corporation. Waste incinerator steam generator-flash evaporator desalination unit. 3,467,587, 9-16-69, Cl. 202-173.
Connell, Joseph B., to Bell Telephone Laboratories, Incorporated. Error detection system for synchronized duplicate data processing units. 3,471,686, 10-7-69, Cl. 235-153.
Connelly, Edward M., to Melpar, Inc. Adaptive control systems for implementing stability criteria. 3,463,908, 8-26-69, Cl. 235-150.1
Connelly, Edward M.; and Worthen, James H., to Melpar, Inc. Integrated circuit statistical switch. 3,441,911, 4-29-69, Cl. 340-172.5
Connelly, Eugene B., to United States Steel Corporation. Tool for planing plate edges. 3,460,220, 8-12-69, Cl. 29-95.1
Connelly, Francis X.: *See—*
Adler, Imre; Connelly, Francis X.; and Martini, Douglas H.,3,457,789.
Connelly, Harold W.; and Monaghan, Alfred C., to Stanco Packaging Systems Corporation. Method and means for skin packaging articles on a porous substrate. 3,449,886, 6-17-69, Cl. 53-22.
Connelly, John A. Twin bar chain saw bar. 3,476,160, 11-4-69, Cl. 143-32.
Connelly, John H.; and Hares, George B., to Corning Glass Works. X-ray absorbing glass compositions. 3,464,932, 9-2-69, Cl. 252-478.
Connelly, William F.; and Kotler, Paul. Coin-operated ball separating and dispensing device. 3,466,036, 9-9-69, Cl. 273-11.
Connelly, William J.: *See—*
Rodia, Frank J.; and Connelly, William J.,3,466,047.
Conner, Charles Irvine: *See—*
Clark, Wilfred Neville; Conner, Charles Irvine; and Ogden, Harry,3,471,703.
Conner, Charles Irvine; Howard, Bernard Victor; Walker, Donald Ferguson; and Wood, Godfrey Allen, to Ferranti, Limited. Linear hydraulic motors. 3,424,059, 1-28-69, Cl. 91-176.
Conner, Charles Irvine; and Killiner, Arthur Thomas, to Ferranti Limited. Photoelectric control means for deflecting beamed energy as applied to the surface of a workpiece. 3,449,542, 6-10-69, Cl. 219-121.
Conner, Charles J., to United States of America, Agriculture. Zirconium compounds as algaecides. 3,446,656, 5-27-69, Cl. 117-138.5
Conner, Charles J., to United States of America, Agriculture. Process for the preparation of phenylmercuric salts. 3,450,731, 6-17-69, Cl. 260-429.
Conner, Charles J.; and Danna, Gary S., to United States of America, Agriculture. Zirchrome mineral dyeing process for producing

cellulosic materials with a plurality of degradation resistance factors. 3,431,059, 3-4-69, Cl. 8-52.
Conner, David C., to Rathcon, Inc. Magnetically actuated toy device. 3,478,466, 11-18-69, Cl. 46-236.
Conner, Guy O. Tools for accurately programming the application of pulverizing energy. 3,442,341, 5-6-69, Cl. 175-319.
Conner, Harry E.: *See—*
Mattimoe, Paul T.; and Conner, Harry E.,3,429,006.
Conner, Harry G.: *See—*
Yetter, Edward W.; and Conner, Harry G.,3,487,226.
Conner, Jack S. Submarine fluid transmission system and conduit therefor. 3,467,013, 9-16-69, Cl. 103-5.
Conner, James Leon: *See—*
Hewes, George B., Jr.; and Conner, James Leon,3,466,011.
Conner, James P.: *See—*
Kane, John J.; and Conner, James P.,3,423,043.
Conner, Jesse R., Jr.: *See—*
Helgert, Harold L.; and Conner, Jesse R., Jr.,3,437,532.
Conner, Joseph R.; Helm, Jack D.; and Anderson, Harold N., to Bemis, Company, Inc. Bag closure apparatus. 3,460,313, 8-12-69, Cl. 53-64.
Conner, Leonard E., to Wagner Electric Corporation, mesne. Induction motor starting circuit utilizing the induced voltage in the starting winding to control switching of the starting circuit. 3,453,516, 7-1-69, Cl. 318-221.
Conner, Willard P., to Hercules Incorporated. Stabilization of polypropylene. 3,462,291, 8-19-69, Cl. 117-66.
Conner, William R., Jr. Attachment for feeding buttons to a sewing machine. 3,483,833, 12-16-69, Cl. 112-113.
Connerat, Edwin B., 1/4 to Eyler, Denver 1/4 to Hinton, Albert J. Bridge plate for railroad cars. 3,421,454, 1-14-69, Cl. 105-458.
Conners, John P.; and Davis, Samuel B., to Corrugated Container Company, The. Liquid container with dispensing valve. 3,430,824, 3-4-69, Cl. 222-523.
Connolly, James Massey; and Lowery, Christopher John, to Imperial Chemical Industries Limited. Centrifugal recovery of copper-vanadium catalyst from adipic aid reaction mixture. 3,459,512, 8-5-69, Cl. 23-293.
Connolly, John J.: *See—*
Bardeau, William M.; and Connolly, John J.,3,472,156.
Connolly, John J., to Coyne Cylinder Co., mesne. Fluid drilling process and apparatus. 3,455,515, 7-15-69, Cl. 241-15.
Connolly, Joseph J., to Weston Instruments, Inc. Time division multiplier. 3,466,460, 9-9-69, Cl. 307-229.
Connolly, Patrick J., to United States of America, Army. Anodized aluminum cap and branch of service insignia. 3,434,941, 3-25-69, Cl. 204-35.
Connon, Neil W.: *See—*
Bachman, Gustave Bryant; and Connon, Neil W.,3,461,178.
Connor, Daniel S., to Procter & Gamble Company, The. Process for the preparation of cyclic alkanes. 3,450,782, 6-17-69, Cl. 260-666.
Connor, Gerald James: *See—*
Kurpisz, Zenon Jan; Connor, Gerald James; and Curtis, James Patrick,3,435,515.
Connor, Robert W., to Ford Motor Company. Latch mechanism. 3,432,198, 3-11-69, Cl. 292-216.
Connor, William G.; Wright, Donald F.; and Dove, Douglas J. A., to Inter Store Transfer Specialists Inc. Container. 3,438,562, 4-15-69, Cl. 229-14.
Connors, John D.: *See—*
Moore, William C.; and Connors, John D.,3,441,340.
Connors, Joseph B. Girdle type undergarments with separable leg portions. 3,438,377, 4-15-69, Cl. 128-528.
Connors, Myles F. Ice cube producer. 3,449,921, 6-17-69, Cl. 62-137.
Connoy, Eugene N.: *See—*
Cleland, Charles E.; and Connoy, Eugene N.,3,452,734.
Connoy, Eugene N.; and Boehne, Dale R., to Continental Machines, Inc. Annealing device with automatic control therefor. 3,435,173, 3-25-69, Cl. 219-50.
Conolon Corporation, The: *See—*
Barnes, Richard D., 3,451,156.
Bishop, John M.; and Simon, Emmett F., 3,448,506.
Conorelli, Emanuele: *See—*
Nobile, Luciano; Conorelli, Emanuele; La Noce, Tullio; and Poma, Anteo,3,451,936.
Conover, C. E., & Co., Inc.: *See—*
Palen, Peter H., 3,449,021.
Conover, George E., to Lynes, Inc. Inflatable packer for external use on casing and liners and method of use. 3,437,142, 4-8-69, Cl. 166-277.
Conover, George E. Inflatable testing and treating tool and method of using. 3,439,740, 4-22-69, Cl. 166-230.
Conover, Lloyd H.: *See—*
Austin, William C.; Conover, Lloyd H.; McFarland, James W.; and Morgan, Derek H.,3,458,633.
Conover, Robert E., to Timken Roller Bearing Company, The. Rock bit assembly and bit insert assembly process. 3,459,073, 8-5-69, Cl. 76-108.
Conover, Tom E.: *See—*
Lovell, Gary E.; and Conover, Tom E.,3,444,528.
Conpax Corporation: *See—*
Cohn, Joseph; and Cohn, Eugene, 3,438,106.
Conquip Limited: *See—*
St. John, Colin, 3,459,136.
Conrac Corporation: *See—*
Howard, Robert C.; and Baker, Dale C., 3,476,482.
Jones, Joel Grayson, 3,428,856.
Reader, Trevor D., 3,450,340.
Roy, Joseph Yvon; and MacDonald, John Kenneth, 3,466,548.
Vick, Gerald L., 3,456,226.
Wheeler, Edwin L., 3,487,460.
Conrad, Arthur S.: *See—*
Conrad, Peter S.; and Conrad, Arthur S.,3,450,592.
Conrad, Ernest E.; and Finger, Armin A., to International Business Machines Corporation. Work holder rack. 3,461,842, 8-19-69, Cl. 118-500.
Conrad, Franklin: *See—*
Shapiro, Hymin; and Conrad, Franklin,3,455,678.
Conrad, Herbert A.: *See—*
Kaufman, Samuel; and Conrad, Herbert A.,3,462,971.
Conrad, Kenneth J.: *See—*
Blaker, David P.; and Conrad, Kenneth J.,3,465,619.
Conrad, Lucas J., to Reynolds, R. J., Tobacco Company. Method and apparatus for disconnecting the components of composite food pieces. 3,472,300, 10-14-69, Cl. 146-225.
Conrad, Lucas J.; and Everhart, John R., to Archer Products, Incorporated. Rolling apparatus for rounding the edges of strip metal. 3,479,852, 11-25-69, Cl. 72-40.
Conrad, Martin B., to Baker Oil Tools, Inc. Retrievable packer. 3,420,307, 1-7-69, Cl. 166-134.
Conrad, Martin B., to Baker Oil Tools, Inc. Anchoring device. 3,422,897, 1-21-69, Cl. 166-122.
Conrad, Martin B., to Schlumberger Technology Corporation. Setting apparatus for well tools. 3,422,898, 1-21-69, Cl. 166-125.
Conrad, Martin B., to Baker Oil Tools, Inc. Retrievable well packer. 3,422,901, 1-21-69, Cl. 166-134.
Conrad, Martin B. Anchor-packer. 3,438,438, 4-15-69, Cl. 166-221.
Conrad, Martin B. Retrievable bridge plug. 3,461,959, 8-19-69, Cl. 166-123.
Conrad, Martin B. Well packer having two sets of slips. 3,469,628, 9-30-69, Cl. 166-134.
Conrad, Peter S.; and Conrad, Arthur S., to Plykon Corporation. Multiple use geometrical shape. 3,450,592, 6-17-69, Cl. 161-7.
Conrad, Raymond W.; and Cox, Ronald H., to Texas Instruments, Incorporated. Method for making graded composition mixed compound semiconductor materials. 3,441,453, 4-29-69, Cl. 148-175.
Conrad, Raymond W.; Haisty, Robert W.; and Hoyt, Pete L., to Texas Instruments Incorporated. Method of making high resistivity group III-V compounds and alloys doped with iron from an iron-arsenide source. 3,421,952, 1-14-69, Cl. 148-175.
Conrad, Richard A., to Kinetics Corporation of California. Plunger type electric switch. 3,474,198, 10-21-69, Cl. 200-16.
Conrad, Richard R.: *See—*
Zocholl, Stanley E.; and Conrad, Richard R.,3,478,250.
Conrad, Robert. Swimming pool filter. 3,471,022, 10-7-69, Cl. 210-169.
Conrad, Thomas Wesley; and McIver, William, to International Telephone and Telegraph Corporation. Low insertion force cam-actuated printed circuit board connector. 3,478,301, 11-11-69, Cl. 339-75.
Conrad, Thomas W., to Sippican Corporation, The, mesne. Welding accessory. 3,474,217, 10-21-69, Cl. 219-95.
Conrad, Tom J.; Dayton, Glenn O., Jr.; and Arlin, Max, to Studies, Inc. Flexible polyethylene corneal contact lens. 3,431,046, 3-4-69, Cl. 351-160.
Conrad, Winthrop B., to Teleflex Incorporated. Motion transmitting remote control assembly. 3,426,613, 2-11-69, Cl. 74-501.
Conrad, Winthrop B., to Teleflex Incorporated. Motion transmitting remote control assembly. 3,434,501, 3-25-69, Cl. 138-109.
Conrad, Winthrop B., to Teleflex, Incorporated. Method of manufacturing a motion transmitting remote control assembly. 3,435,107, 3-25-69, Cl. 264-159.
Conradi, Karl-Heinz: *See—*
Niedner, Peter Klaus; and Conradi, Karl-Heinz,3,484,288.
Conrath, Jules R., to Bell Telephone Laboratories, Incorporated. Drive circuit utilizing linear cores to control switching. 3,435,436, 3-25-69, Cl. 340-174.
Conrose, Charles W., Sr. Spectacle mounted infinity sight for an athlete. 3,436,151, 4-1-69, Cl. 356-72.
Conroy, Coleman T., to Cinerama, Inc. Differential pressure gate. 3,457,007, 7-22-69, Cl. 352-222.
Conroy, Natalie Hetman: *See—*
Milks, John Edward; and Conroy, Natalie Hetman,3,422,124.
Conry, Lloyd H., to Global Marine Inc. Marine buoy. 3,453,670, 7-8-69, Cl. 9-8.
Conry, Lloyd H.; Rininger, Paul R.; and Robertson, Farrell C., to Global Marine Inc. Constant tension winch. 3,481,584, 12-2-69, Cl. 254-172.

Conseiller, Yvon Gilbert Marc; and Quiquempois, Andre Jean Arthur, to Rhone-Poulenc S.A. Stabilised dinitroso-pentamethylene tetramine. 3,468,954, 9-23-69, Cl. 260-583.
Conseiller, Yvon; and Maincon, Maurice, to Rhone-Poulenc S.A. Process for the separation of mixtures of acetylene and vinyl acetate. 3,465,501, 9-9-69, Cl. 55-63.
Considine, Dennis P.: *See*—
Ryan, Charles E.; and Considine, Dennis P.,3,452,179.
Considine, Frank W.: *See*—
Lipske, Benjamin B.; Considine, Frank W.; and Zenger, Richard D.,3,425,589.
Considine, William J.; and Reifenberg, Gerald H., to M & T Chemicals Inc. Poly-(tin alkylene carboxy) containing compounds and the preparation thereof. 3,454,609, 7-8-69, Cl. 260-429.7
Considine, William J.; and Reifenberg, Gerald H., to M & T Chemicals Inc. Cyanoalkylenetin mercaptides or esters and the preparation thereof. 3,471,538, 10-7-69, Cl. 260-429.7
Considine, William J.; and Reifenberg, Gerald H., to M & T Chemicals Inc. Method for preparing cyanoalkylene tin carboxylates. 3,475,474, 10-28-69, Cl. 260-429.7
Conso Engineering Company: *See*—
Clymin, Michael L., 3,485,704.
Consogno, Giancarlo. Method and device for the protection of the refractory masonries. 3,446,494, 5-27-69, Cl. 263-44.
Consoletti, Paul C., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Positioner and extractor device. 3,467,811, 9-16-69, Cl. 219-227.
Consoli, Terenzio; Dupas, Lucien; and Leroy, Jean, to Commissariat a l'Enerqie Atomique. Device for the production and confinement of ionized gases. 3,425,902, 2-4-69, Cl. 176-7.
Consolidated Alarm Systems, Inc.: *See*—
Leve, Norman I.; and Raiffie, Leonard E., 3,451,369.
Consolidated Burris International, Ltd.: *See*—
Kuhlmann, Olaf, 3,471,199.
Consolidated Cigar Corporation: *See*—
Marano, Herbert W., 3,421,520.
Consolidated Edison Company of New York, Inc.: *See*—
Thomas, Earl R., 3,453,495.
Consolidated Electric Corporation: *See*—
Ostrom, Cyrus W., 3,421,736.
Consolidated Electrodynamics Corporation: *See*—
Brown, Richard P.; and Lancor, Joseph H., Jr., 3,421,675.
Chambers, Herbert I., 3,430,253.
Gilchrist, Edgar S., 3,430,141.
Lancor, Joseph H., Jr., 3,431,047.
Marsh, Roger F., 3,449,695.
Morgan, Grant Thomas, 3,439,274.
Consolidated Electronic Industries, Inc.: *See*—
Martin, Robert L., 3,470,506.
Consolidated Electronics Corporation: *See*—
Whitlow, George A., 3,436,484.
Consolidated Electronics Industries Corporation: *See*—
Carli, Alvin J., 3,439,134.
Deming, Andrew F., 3,467,901.
Deming, Andrew F., 3,471,707.
Kavanaugh, Richard J.; and Burrows, Philip R., 3,456,178.
Lofstrand, Warren A.; and Brugmann, Jurgen, 3,431,432.
Loughran, Eugene F.; and Balnis, Joseph J., 3,426,608.
Ouellette, Chester V.; and Knecht, William A., 3,435,392.
Schapira, William W.; and Berkelhamer, Louis H., 3,436,709.
Consolidated Engineering Company: *See*—
Reuter, Brian Ronald, 3,485,976.
Consolidated Engineering Company, Inc.(CECO): *See*—
Reuter, Brian R.; and Stern, Stuart, 3,440,733.
Consolidated Foods Corporation: *See*—
Ayres, Robert F., 3,420,715.
Brown, Robert J.; Kowalewski, John J.; and Moughty, John J., 3,434,092.
Downey, David F.; Le Baigue, Jacques L.; and Ohlson, Bengt E., 3,432,997.
Downey, David F., 3,432,998.
Ferraris, John T., 3,427,487.
Graber, Joseph V.; and Salzmann, Ferdinand F., 3,470,578.
Spring, Samuel, 3,471,407.
Consolidated Laboratories, Inc.: *See*—
McSweeney, Daniel J.; and Sbarra, Anthony J., 3,436,186.
Consolidated Lithographing Corporation: *See*—
Macomber, James Keith, 3,435,717.
Consolidated Natural Gas Service Co., Inc.: *See*—
Linden, Henry R.; Baker, Bernard S.; Meek, John; and Allen, Arthur C., 3,438,759.
Consolidated Olive Growers: *See*—
Wood, Burl T., 3,422,990.
Consolidated Packaging Corporation: *See*—
Fahey, Richard J., 3,456,426.
Consolidated Packaging Machinery Corp.: *See*—
Riesenberg, James H., 3,430,668.
Consolidated Packaging Machinery Corporation: *See*—
Riesenberg, James H., 3,461,923.
Consolidated Paper (Bahamas) Limited: *See*—
Kivell, Robert John, 3,486,612.
Lichtenberger, Joseph A.; and Brandts, Theodorus G., 3,461,032.
Consolidated Papers, Inc.: *See*—
Hazard, Sherrill J., Jr.; and Fretz, Harold Robert, 3,455,780.
Holt, Sherwood G., 3,472,733.
Kahoun, John B.; and Stout, Gary D., 3,462,680.
Langlois, Arthur C.; and Ziegenhagen, Paul D., 3,475,956.
Niilo-Rama, Jaakko E., 3,455,715.
Niilo-Rama, Jaakko E.; and Smiley, Robert J., 3,455,895.
Ziegenhagen, Paul D.; Fretz, Harold R.; Langlois, Arthur C.; and Damrau, Wayne A., 3,466,925.
Consolidated Productions, Inc.: *See*—
Polly, Uhel D., 3,459,614.
Consolidated Products Corporation: *See*—
Roe, Norman P., 3,462,822.
Consolidation Coal Company: *See*—
Erickson, Arnold R., 3,460,195.
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,442,619.
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,442,620.
Kulik, Metro D.; and Laufer, Robert J., 3,461,175.
Laufer, Robert J., 3,461,168.
Laufer, Robert J., 3,479,407.
Previc, Edward P., 3,461,172.
Consolin, Francis: *See*—
Droniou, Daniel; and Consolin, Francis,3,440,640.
Consonni, Alberto; Pallini, Ugo; and Sciaky, Roberto, to Societa Farmaceutici Italia. 3-(2'-Chloroethylthio)-6-formyl-9α-fluoro-steroids. 3,480,623, 11-25-69, Cl. 260-239.55
Consonni, Alberto; Patelli, Bianca; and Sciaky, Roberto, to Societa Farmaceutici Italia. Cyano-derivatives of steroids. 3,462,423, 8-19-69, Cl. 260-239.55
Consortium fur Elektrochemische Industrie G.m.b.H.: *See*—
Hafner, Walter, 3,424,802.
Hafner, Walter; Milles, Karl; and Kopp, Erwin, 3,457,352.
Hafner, Walter; Kopp, Erwin; and Milles, Karl, 3,457,353.
Helmberger, Hermann; Dietz, Wolfgang; Gutberlet, Fritz; Hermann, Hans; and Wittmann, Hans, a/k/a Wittmann, Johan, 3,421,054.
Wirth, Heinz; Helmberger, Hermann; and Herrmann, Hans, 3,434,803.
Consoweld Corporation: *See*—
Saunders, Myron G.; and Steinke, Frank D., 3,468,089.
Constable, Eric F., to Cheney, C. W., & Son Limited. Locks. 3,440,844, 4-29-69, Cl. 70-70.
Constable, Eric Frederick, to Cheney, C. W., & Son Limited. Hasps for suitcases and like luggage locks. 3,467,428, 9-16-69, Cl. 292-340.
Constable, Eric Frederick, to Cheney, C. W., & Son Limited. Luggage locks. 3,478,547, 11-18-69, Cl. 70-71.
Constant, Rene Leon: *See*—
Naud, Henry; and Constant, Rene Leon,3,441,221.
Constantakis, Roberto; and Hudgens, James J., to Monsanto Company. Method and apparatus for quenching filaments. 3,440,685, 4-29-69, Cl. 18-8.
Constantikes, George J.; and Bauer, Robert D., to Phillips Petroleum Company. Prevention of flooding in a distillation column by control of column top pressure. 3,427,228, 2-11-69, Cl. 203-1.
Constantin Graf Von Berckheim: *See*—
Jahnke, Herbert, 3,483,672.
Constantine, Thomas T., to Fabric Research Laboratories, Inc. Apparatus for producing textured yarns. 3,426,407, 2-11-69, Cl. 28-1.
Constantinides, Christos T.; and Halverson, Richard P., to Sperry Rand Corporation. Memory apparatus utilizing parallel pairs of transmission line conductors having negligible magnetic coupling therebetween. 3,484,766, 12-16-69, Cl. 340-174.
Constantino, Nicholas B., to Lilly, Eli, and Company. Ceiling molding. 3,481,092, 12-2-69, Cl. 52-288.
Constructeurs Associes Pour Le Montage d'Ouvrages Metalliques (C.A.M.O.M.) Societe Anonyme:*See*—
Brucker, Jacques, 3,469,731.
Constructiewerkhuizen Van Oordegem: *See*—
De Ryck, Petrus Robert, 3,448,490.
Construction Fasteners, Inc.: *See*—
Cohen, Irvin; and Levy, Bernard D., 3,452,636.
Construction Machinery Company: *See*—
Kabele, Walter A., 3,451,343.
Construction Machinery, Inc.: *See*—
Spivey, Gordon L., 3,471,954.
Swisher, George W., Jr.; Spivey, Gordon L.; and Petersik, Adolph R., 3,423,859:
Construction Products Co., Inc.: *See*—
Weber, Paul W.; Weber, Manfred J.; and Clarke, James F., 3,453,776.
Construction Techniques, Inc.: *See*—
Colle, Ervin Richard, 3,474,626.
Hillen, Henri F. J., 3,425,227.
Lamberton, Bruce A., 3,425,228.

Contacts, Inc.: *See—*
Emmert, Kenneth L., 3,466,735.
Container Corporation of America: *See—*
Bell, John T.; and Jaeger, Theodore D., 3,465,652.
Bell, John T.; and Jaeger, Theodore D., 3,486,422.
Christian, Robert L.; Trout, Paul E.; and Schwenkler, Joseph J., 3,485,575.
Clark, Frank E.; Pugh, Clyde C.; and von Konsky, Robert H., 3,430,416.
Collura, Peter C.; Desmond, John D.; Venditti, Arthur P.; and Lesinski, Theodore S., 3,438,563.
Copeland, George G., 3,462,246.
Desmond, John D.; Lesinski, Theodore S.; and Martin, James A., 3,424,367.
Dlugopolski, Joseph J., 3,463,379.
Donaldson, David, 3,486,678.
Drnec, Harry F.; and Foote, Allan E., 3,424,369.
Freeman, Claude C., 3,437,193.
Herring, Walter Raymond, 3,440,709.
Koboldt, Melvin A., 3,480,195.
Leibson, Abraham; and Griffin, Edward J., 3,423,005.
Lewis, Philip W.; Zitzelman, Karl; and Brom, Lawrence V., 3,450,347.
Lotz, William B., 3,445,053.
Mac Lean, Archibald, Jr.; Maskell, Richard M.; Sill, Thomas E.; and Wagner, William F., 3,463,357.
Mahon, John V., 3,438,566.
Mahon, John V.; and Parker, George H., 3,456,841.
Mahon, John V.; Smith, William P.; and Whipperman, Ronald L., 3,486,682.
Makowski, Alexander G., 3,440,310.
Mason, Thomas A., 3,482,678.
Mattheis, Harley H., 3,484,030.
Nigrelli, Biagio J.; Standley, Wendell E.; and Wittmann, Richard B., 3,473,295.
Nuttall, Wallace H., 3,433,694.
Padovano, William, 3,450,332.
Pound, James R.; and Ellison, Edward A., 3,463,348.
Savage, Reese, 3,438,091.
Schwenkler, Joseph J.; and Merchant, Morris V., 3,485,656.
Turner, William E.; and Ragsdale, George S., 3,422,951.
Van Saun, Raymond H.; and Foote, Allan E., 3,437,198.
Container Development Corporation: *See—*
Frater, Allen H.; and Frater, George G., 3,420,402.
Contal, Maurice G.: *See—*
Lacan, Guy H.; and Contal, Maurice G.,3,457,532.
Conte, Alfred L.: *See—*
Amthor, Helmut K.; and Conte, Alfred L.,3,431,622.
Conte, John S.: *See—*
Faessinger, Robert W.; and Conte, John S.,3,450,614.
Conte, John S.; and Faessinger, Robert W., to Scott Paper Company. Wet-strength resins and a process for improving the wet-strength of paper. 3,420,735, 1-7-69, Cl. 162-167.
Conte, Joseph G.; Spitaleri, Paul S.; and Cohen, Martin, to Continental Oil Company. Production of hydrogen fluoride. 3,455,650, 7-15-69, Cl. 23-153.
Conte, Joseph G.; Spitaleri, Paul S.; Stern, Milton; and Simpson, Theodore B., to Continental Oil Company, mesne. Preparation of animal feed phosphate. 3,425,837, 2-4-69, Cl. 99-2.
Conte, Louis B., Jr.: *See—*
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr.,3,461,097.
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr.,3,461,098.
Matzner, Markus; and Conte, Louis B., Jr.,3,437,637.
Conte, Madeleine Marcelle: *See—*
Cogez, Paul Antoine Alexandre; Conte, Madeleine Marcelle; and Sabatier, Jacques Georges Robert,3,464,706.
Contemporary Research, Inc.: *See—*
Croft, Harry P., 3,467,765.
Contemporary Walls Limited: *See—*
Cooper, Kenneth R., 3,439,601.
Contensou, Pierre L.; Delattre, Michel M.; and Gay, Michel J., to Office National d'Etudes et de Recherches Aerospatiales. Micro-accelerometer. 3,438,267, 4-15-69, Cl. 73-517.
Conterno, Giovanni. Knob for speed transmission lever of motor vehicles. 3,484,808, 12-16-69, Cl. 74-543.
Conti, Aldo. Wire grinding machine. 3,432,971, 3-18-69, Cl. 51-80.
Conti, Cesare L., to Complett S.p.A. Hosiery linking machine. 3,476,064, 11-4-69, Cl. 112-25.
Conti, Francesco: *See—*
Pregaglia, Gianfranco; Gregorio, Guglielmo; and Conti, Francesco,3,479,412.
Conti, Giovanni, to RIV Officine di Villar Perosa Societa per Azioni. Seal for rotary members. 3,458,207, 7-29-69, Cl. 277-83.
Conti, John D., to FMC Corporation. Article wrapping apparatus. 3,442,064, 5-6-69, Cl. 53-390.
Conti, John D., to FMC Corporation. Method for wet laminating hydrophilic films. 3,467,566, 9-16-69, Cl. 156-307.
Continental Aviation and Engineering Corporation: *See—*
Bachle, Carl F., 3,450,112.
Bachle, Carl F., 3,450,113.
Cronstedt, Val, 3,450,111.
De Remer, James E.; Herringshaw, Tobias J.; and Parent, John W., 3,451,534.
Kozlin, Joseph R.; and Ciavola, David T., 3,455,537.
Pearsall, Thomas J., 3,455,282.
Smith, Raymond, 3,438,581.
Warrell, Fred J., 3,450,199.
Continental Baking Company: *See—*
Tobey, Hubert E., 3,451,570.
Continental Can Company, Inc.: *See—*
Adomaitis, Domas, 3,464,941.
Ames, Joseph L.; and Brett, Charles K., 3,437,194.
Aschberger, Anton A., 3,469,428.
Bartels, Herbert D., 3,451,592.
Bartels, Herbert D., 3,462,046.
Bartels, Herbert D., 3,478,921.
Bartels, Herbert D., 3,482,738.
Bergstrom, Harold A., 3,437,254.
Bodenheimer, Vernon B.; Smith, Jimmie H.; and Coleman, Henry C., 3,472,732.
Boik, Arnold R.; and Stec, Frederick J., 3,426,714.
Boik, Arnold R., 3,485,410.
Boldstein, Irving S., 3,479,211.
Bozek, John S., 3,447,711.
Bozek, John S., 3,478,563.
Brown, William M., 3,432,029.
Buck, James G.; Winkless, Robert A.; and Gerber, Howard L., 3,450,856.
Budz, Edward R., 3,477,197.
Cartwright, William J., 3,469,670.
Cary, John T., 3,431,532.
Chamberlin, Alfred H., 3,429,026.
Chebuhar, Charles J., 3,463,060.
Civitello, Anthony J., 3,456,866.
Colgan, Charles E.; and McArdle, Edward J., 3,455,481.
Dike, Roy W., 3,441,172.
Dittmann, William A., 3,457,590.
Dorn, Henry J.; and Brockett, Halford E., 3,465,907.
Erlandson, Paul M., 3,420,079.
Erlandson, Paul M.; and Howeler, Warren F., 3,440,392.
Erlandson, Paul M., 3,468,453.
Fitko, Chester W.; and Ravve, Abraham, 3,432,464.
Fitko, Chester W.; and Ravve, Abraham, 3,441,469.
Fox, James F., 3,472,417.
Frankenberg, Henry E., 3,428,010.
Ganz, Henry, 3,424,302.
Ganz, Robert H., 3,474,590.
Garver, Edward B.; and Lurie, Randolph D., 3,452,396.
Hazdra, James J.; Sonnleitner, David; and Wesolowski, Wyne E., 3,434,817.
Henchert, John, 3,440,713.
Henchert, John, 3,462,048.
Hook, George C., 3,449,192.
Hook, George C., 3,470,056.
Jacob, Yuash Pete, 3,476,239.
Jantze, Clyde E.; Arnott, Edward A.; and Scott, Earl V., 3,465,703.
Kehe, Alfred W., 3,485,783.
Khoury, Nick S., 3,432,067.
Khoury, Nick S., 3,441,170.
Khoury, Nick S., 3,468,452.
Khoury, Nick S., 3,480,175.
Kinnavy, James W., 3,431,877.
Kinnavy, James W.; and Buchanan, John J., 3,450,305.
Kinnavy, James W., 3,467,283.
Kinnavy, James W., 3,476,287.
Knox, Jack R.; and Teumer, Karl-Heinz, 3,421,930.
Knox, Jack R.; and Teumer, Karl-Heinz, 3,475,307.
Krizka, Jerry A.; and Fox, James F., 3,433,391.
Kuenstle, Joseph Franz; and Rosen, John Emanuel, 3,424,566.
Levenson, Albert A., Jr., 3,473,994.
Lurie, Randolph D., 3,420,930.
Maliszewski, Leonard A.; and Hsu, Robert T., 3,451,586.
Manuel, Ernesto H., 3,471,316.
Martin, Ralph E., 3,423,990.
McCluskey, David C., 3,427,778.
Miller, William L., 3,420,397.
Miller, William L., 3,459,324.
Moller, Jens L.; and Nicholson, John B., 3,471,059.
Moller, Jens L., 3,473,692.
Morgese, Nicholas V., 3,472,370.
Nicholson, John B., 3,442,416.
Peyser, Harry A., 3,437,227.
Piazze, Thomas E., 3,427,729.
Powalowski, Joseph C.; and Westfall, James E., 3,460,701.
Ravve, Abraham; and Fitko, Chester W., 3,440,303.
Roth, Donald J., 3,461,699.

Ruekberg, Herbert S., 3,423,818.
Ruekberg, Herbert S., 3,456,290.
Ruekberg, Herbert S., 3,478,387.
Stec, Frederick J., 3,434,651.
Stec, Frederick J., 3,441,171.
Stec, Frederick J., 3,447,713.
Stec, Frederick J.; and Westphal, Teddy M., 3,450,301.
Suomi, William D.; and Ravve, Abraham, 3,463,714.
Szajna, John L., 3,434,202.
Szajna, John L., 3,457,591.
Thomson, William W., 3,461,716.
Turner, Howard M., 3,453,162.
Turner, Howard M., 3,457,337.
Turner, Howard M., 3,466,353.
Turner, Howard M.; and Krizka, Jerry A., 3,474,754.
Tysver, Oliver J.; Keinanen, Henry J.; and Gore, Ernest M., 3,462,015.
Ullery, Lee R., Jr.; and Wronski, Steve F., 3,431,383.
Unger, Harold W., 3,463,350.
Vahle, Raymond, 3,468,101.
Voorhis, Harold W., 3,468,455.
Voorhis, Harold W., 3,469,763.
Wexler, Herman, 3,422,081.
White, Robert P.; and Foster, Charles N., 3,484,012.
Wright, Norbert L.; and Dorn, Henry J., 3,439,718.
Zipper, Donald H., 3,448,881.
Zipper, Donald H., 3,473,683.

Continental Capital-Control Centre Establishment: *See*—
Wallis, Charles Edward, 3,486,917.

Continental Carbon Company: *See*—
Davis, Jerry E., 3,467,502.
de Groot, Wouter F., 3,443,761.
Hewitt, Kenneth D., 3,483,594.
Miller, Francis P., 3,461,487.
Miyajima, Nobuo, 3,457,788.
Thomson, Ely K., 3,448,856.
Walcott, Van R., Jr., 3,429,958.

Continental Copper and Steel Industries, Inc.: *See*—
Andersen, Allen K.; and Archipov, Vsevolod, 3,483,568.
Garlitts, Donald C., 3,461,620.

Continental Corporation: *See*—
Birck, Michael J., 3,476,883.

Continental Disc Corporation: *See*—
Raidl, John H.; Solter, Robert L.; and Hansen, Franklin A., 3,445,032.

Continental Electronics Manufacturing Company: *See*—
Enemark, Robert B.; and Tsao, Carson K. H., 3,478,269.

Continental Elektroindustrie A.G.: *See*—
Brede, Ernst, 3,477,293.
Brede, Ernst; Schulze, Reinhard; and Thebis, Eberhard, 3,486,379.

Continental Elektroindustrie AG Askania-Werke: *See*—
Ziegler, Horst, 3,461,726.

Continental Granite Corp.: *See*—
Grage, Casper R., 3,434,362.

Continental Gummi-Werke Aktiengesellschaft: *See*—
Depmeyer, Lothar; and Wittneben, Hermann, 3,481,385.
Menell, Hans, 3,424,634.
Menell, Hans; and Johannes, Gunter, 3,467,161.
Menell, Hans; and Scheithauer, Walter, 3,481,386.
Michels, Peter; and Engel, Horst, 3,470,050.
Niclas, Walter; and Wittneben, Hermann, 3,486,545.
Schulz, Karl, 3,424,503.
von Waldeck, Friedrich-Carl; and Sievers, Willi, 3,486,958.
Warnecke, Karl, 3,448,487.
Wittneben, Hermann, 3,451,461.

Continental Illinois National Bank and Trust Company of Chicago: *See*—
Voitik, Robert M., 3,442,516.
Voitik, Robert M.; and Yost, Kermit D., 3,443,815.
Voitik, Robert M., 3,475,033.
Voitik, Robert M., 3,480,284.

Continental Industries, Inc.: *See*—
Burke, Donald J., 3,467,355.

Continental Instruments Corp.: *See*—
Tellerman, Edward M.; and Larsen, Robert A., 3,425,050.

Continental Machines, Inc.: *See*—
Cleland, Charles E., 3,441,056.
Cleland, Charles E.; and Connoy, Eugene N., 3,452,734.
Connoy, Eugene N.; and Bochne, Dale R., 3,435,173.
Robinson, La Roy E.; and Strom, Roy V., 3,483,783.
Turnbull, Hugh G.; and Winer, Irving G., 3,457,817.
Whitmore, Charles H.; and Ernst, Walter, 3,431,856.
Wilkie, James W.; and Cleland, Charles E., 3,474,693.

Continental Manufacturing Company: *See*—
Reed, Charles L., Jr.; and Smith, Russell G., 3,472,254.
Smith, Russell G., 3,425,451.
Smith, Russell G., 3,442,490.
Smith, Russell G., 3,462,119.

Continental Motors Corporation: *See*—
Fryer, Ross L.; and Hill, Dennis C., 3,479,997.
Johnston, Raymond; Moran, Edwin G.; and Clark, Ralph J., 3,477,413.
Senf, Oaklan R., 3,459,131.
Senf, Oaklan R., 3,468,223.
Wiseman, William A., 3,421,343.
Wiseman, William A., 3,421,490.
Wiseman, William A.; and Fordham, Clifford, 3,429,304.
Wiseman, William A.; and Eberly, Paul G., 3,447,393.
Wiseman, William A.; and Walker, John L., 3,447,515.

Continental Oil Company: *See*—
Acciarri, Jerry A., 3,445,494.
Alexander, John D.; Dew, John N.; and Martin, William L., 3,422,891.
Alix, Joe F., 3,459,153.
Atwood, Mark T., 3,423,444.
Atwood, Mark T.; Napier, Donald R.; and Oertle, Donald H., 3,457,030.
Banks, William P., 3,428,532.
Banks, William P.; and Sudbury, John D., 3,437,572.
Barrere, Clem A., Jr., 3,457,705.
Boyer, Lyndon D., 3,458,594.
Brown, Graydon L.; and Thomas, Bobby J., 3,460,648.
Brown, Graydon L.; and Fair, Delbert W., 3,482,646.
Bruce, Ronald G., 3,478,111.
Cameron, Daniel F., 3,472,761.
Carel, Alfred B.; and Bush, William A., 3,427,788.
Cease, Vincent J., 3,476,800.
Chapman, William L., 3,435,797.
Clynch, Frank, 3,452,327.
Clynch, Frank, 3,480,093.
Cole, Jimmy R., 3,434,446.
Conte, Joseph G.; Spitaleri, Paul S.; Stern, Milton; and Simpson, Theodore B., 3,425,837.
Conte, Joseph G.; Spitaleri, Paul S.; and Cohen, Martin, 3,455,650.
Council, Bill E.; and Woods, Warren W., 3,438,896.
Dew, John N.; and Martin, William L., 3,461,963.
Eccles, Raymond D.; Yates, James E.; and Matson, Ted P., 3,444,087.
Ellington, Eugene E., 3,436,839.
Every, Richard L.; Thieme, James O.; and Casad, Burton M., 3,437,451.
Every, Richard L.; and Grimsley, Ralph Leroy, 3,445,181.
Every, Richard L.; and Banks, William P., 3,462,353.
Felsenthal, Martin; Ferrell, Howard H.; and Matthews, Robert R., 3,480,081.
Gilliland, Harold E., 3,480,082.
Godsey, Charles E., 3,420,634.
Grimsley, Ralph Leroy; and Every, Richard L., 3,472,618.
Grimsley, Ralph Leroy; and Every, Richard L., 3,483,267.
Guerrero, Fernando V., 3,469,864.
Haase, Donald J., 3,422,604.
Haase, Donald J., 3,422,665.
Harwell, Kenneth E., 3,445,493.
Harwood, William H., 3,437,421.
Higgins, Francis J., 3,449,446.
Holden, Harold H., 3,425,913.
Hudgins, Charles M., Jr.; Casad, Burton M.; and Haden, Elard L., 3,424,662.
Hughes, Ralph C.; and Every, Richard L., 3,456,987.
Kennedy, Carl D., 3,457,227.
Kerfoot, Oliver C.; and Howell, Thomas E., 3,446,867.
Knutson, Carroll F., 3,440,875.
Knutson, Carroll F., 3,468,129.
Koch, Ludwig W., 3,445,008.
Koch, Ludwig W.; and Keller, Dennis F., 3,471,204.
Kresse, Herman J.; and Alix, Joe F., 3,462,290.
Kuhn, David A., 3,449,139.
Kuhn, David Albert; and Riggs, Olen Lonnie, Jr., 3,455,822.
Lippoldt, Richard F.; and Woods, Warren W., 3,427,194.
Lundeen, Allan J.; and Yates, James E., 3,450,735.
Lundeen, Allan J.; and Starks, Charles M., 3,461,176.
Lundeen, Allan J., 3,470,246.
Maxson, Orwin G.; and Sorenson, Wayne R, 3,468,864.
Mehdizadeh, Parviz, 3,427,873.
Miller, Donald B.; McClaflin, Gifford G.; and Sorenson, Wayne R., 3,432,513.
Napier, Donald R., 3,422,160.
Olinger, Eugene C.; Bradley, William R.; and Smith, John H., 3,431,314.
Parkhill, Dennie, Jr., 3,459,445.
Resh, Kyle W.; and Yarbrough, Jack, 3,445,197.
Shock, D'Arcy A.; and Sudbury, John D., 3,436,919.
Shock, D'Arcy A., 3,453,980.
Smith, John H., 3,437,378.
Smith, John H.; and Laurent, Bernard J., 3,470,223.
Sparlin, Derry D.; and Bond, William C., 3,443,637.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H., 3,435,591.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H., 3,458,973.

Spencer, John R.; Greathouse, Walton D.; and Cheek, James H., 3,479,797.
Starks, Charles M.; and Kennedy, Eugene F., 3,428,692.
Turner, Malcolm M.; and Cameron, Daniel F., 3,428,664.
Waters, Kenneth H.; and Heath, Billy J., 3,440,599.
Williams, Billy J.; and Hatlelid, Elbert L., 3,449,144.
Williams, Billy J.; and Kostas, George J., 3,449,150.
Williams, Billy J., 3,464,844.
Wimberley, Jerry W., 3,465,502.
Winfrey, Alvon R., 3,472,522.
Woods, Warren W.; and Shock, D'Arcy A., 3,441,455.
Zavodny, Alfred T., 3,449,944.

Continental Ore Corporation: *See—*
Ground, Ernest R., 3,449,214.

Continental Products of Texas: *See—*
Gilles, Raymond H., 3,475,330.

Continental Research & Development Ltd.: *See—*
Degaetano, Ben, 3,451,584.

Continental Room Service, Inc.: *See—*
Janigian, Kenneth E.; and Lachman, Arthur G., 3,447,720.

Continental Rubber Works: *See—*
Remek, Rudolph J., 3,438,311.

Continental Scale Corporation: *See—*
Hutchinson, William Y., 3,481,415.

Continental Sensing Incorporated: *See—*
Ochonicky, Robert P., 3,436,014.

Continental Tapes, Incorporated: *See—*
Dahl, Rolf, 3,437,622.

Continental Transport Appliances Limited: *See—*
Dorey, George B., 3,447,485.

Continental-Wirt Electronics Corporation: *See—*
Vananzi, Joseph M., 3,461,252.

Continental/Moss-Fordin, Inc.: *See—*
Merkel, Charles M.; Salmon, Joe E.; and Brugh, Thomas H., 3,475,879.

Contra Costa County Water District: *See—*
Harris, William Leslie, 3,478,880.

Contractor, Rashmikant Maganlal; and Kern, Robert Evans, to Du Pont de Nemours, E. I., and Company. Method for producing a thermally self-bonded low density nonwoven product. 3,449,486, 6-10-69, Cl. 264-115.

Contractors Services, Inc.: *See—*
Curtis, William L.; and Curtis, Billy Dean, 3,467,224.

Contraves AG.: *See—*
Heller, Rudolf, 3,448,551.
Lattmann, Max, 3,469,081.
Mueller, Werner, 3,486,258.
Muller, Werner, 3,482,472.
Reich, Heinrich; and Angst, Heinz, 3,482,464.
Stutz, Theo, 3,449,754.
Tschudin, Kurt, 3,443,418.

Contri, Giovanni Dall'Olio. Pressure equalizer for dual tyres of landcraft or aircraft. 3,468,162, 9-23-69, Cl. 73-146.3

Control Data Corporation: *See—*
Beck, John T., 3,466,206.
Brown, Richard W., 3,474,332.
Brown, William R., 3,449,954.
Brown, William R., 3,459,042.
Brown, William R., 3,460,387.
Carlson, Willis J., 3,420,767.
Horning, Norman G., 3,451,049.
Horton, Gilbert; Ruth, Wayne A.; and Cox, Clarence, 3,433,107.
Langtry, Manuel C.; and Banks, Stephen A., 3,438,001.
Lapornik, Edward F., 3,437,796.
Lynn, Richard G., Sr.; Machulda, James R.; and Hill, John L., 3,431,858.
Mader, Lyle W., 3,432,673.
Norberg, Gayle R., 3,485,953.
Perkins, Robert L.; Thorndyke, Lloyd M.; and Sullivan, Daniel C., 3,484,760.
Pratt, Warren R., 3,423,731.
Pratt, Warren R., 3,432,689.
Rabinow, Jacob, 3,444,517.
Rabinow, Jacob, 3,465,317.
Rabinow, Jacob; and Genovese, Joseph A., 3,472,506.
Rabinow, Jacob, 3,483,511.
Schwartz, Arnold, 3,483,327.
Solberg, Conrad J.; Hille, Lawrence S.; Schoenherr, Henry W.; and Solstad, Russell V., 3,449,828.
Tanner, Robert L.; Jones, Edward M. T.; and Harris, Frank B., Jr., 3,465,343.
Thomas, Neil L.; and Petrini, Albert A., 3,465,297.
Ucko, Franz; and Airhart, Durwood L., 3,457,012.
Ulstad, Meredith S.; and Neuman, Arthur E., 3,441,900.

Control Equipment Corporation: *See—*
Adams, Harry E., 3,420,101.

Controlex Corporation of America: *See—*
Gregory, Walter V., Jr., 3,452,615.

Controlled Air & Water Co., Inc.: *See—*
Mauller, Gustav A., Jr., 3,450,124.

Controlled Mercury Switch Corporation: *See—*
Seablom, Wendell, 3,429,593.

Controls Company of America: *See—*
Beller, Wilbert E.; and Kahale, Abed G., 3,443,163.
Beller, Wilbert E.; and Kahale, Abed G., 3,445,676.
Biermann, William A., 3,443,693.
Fairley, Richard K.; and McCarty, Lourdes V., 3,451,407.
Fairley, Richard K.; and Mueller, Reinhold, 3,463,963.
Fairley, Richard K.; and McCarty, Lourdes V., 3,477,641.
Latta, Edward; Godin, Edmund J.; and Phillips, Jerome, 3,444,409.
Latta, Edward, 3,463,954.
Latta, Edward; and Godin, Edmund J., 3,471,729.
Marcel, Jean Pierre; and Velay, Claude, 3,465,110.
Matthies, Alan A., 3,464,227.
Matthies, Alan A., 3,478,534.
Obermann, George, 3,431,372.
Orth, Charles D.; and Treder, Charles F., 3,450,345.
Phillips, Jerome; and Hipps, Robert A., 3,457,441.
Phillips, Jerome, 3,483,409.
Stone, Thomas W., 3,419,957.
Stone, Thomas W., 3,433,990.
Stone, Thomas W., 3,463,949.
Teichert, Allen L.; and Schrader, George F., 3,463,008.
Vicenzi, Reno L.; and Wallace, Elmer E., 3,451,421.
Wallace, Elmer E., 3,463,183.
Watkins, William H., 3,441,759.

Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney. Isolation of hemophilus bacteria. 3,445,339, 5-20-69, Cl. 195-103.5

Convalle, Giovanni; and Sfondrini, Pierluigi, to Montecatini Edison S.p.A. Apparatus for obtaining molding powders of polytetrafluoroethylene of improved quality. 3,423,035, 1-21-69, Cl. 241-84.

Convalle, Giovanni: *See—*
Sfondrini, Pierluigi; and Convalle, Giovanni,3,424,830.

Converse, Keith C. Depth control apparatus. 3,477,519, 11-11-69, Cl. 172-315.

Converse, Sherman; and McKeown, Calvin M., to Graniteville Company. Method of laminating polyurethane foam and fabric. 3,463,690, 8-26-69, Cl. 156-291.

Conversion Chemical Corporation: *See—*
Bellinger, Kenneth P.; and Verzier, Le Verne, 3,479,293.

Convertine, Frank, to Freed A., Novelty, Inc. Vibrating cup. 3,425,689, 2-4-69, Cl. 272-27.

Convertine, Frank, to Hasbro Industries, Inc. Toy figure having vertical reciprocating movement. 3,452,473, 7-1-69, Cl. 46-119.

Conveyor Systems Inc.: *See—*
Burt, Harold S., 3,422,948.

Conway, Bernard W. Method of producing a fibrous web material having retained wet strength at high humidity and the fibrous material produced thereby. 3,468,696, 9-23-69, Cl. 117-62.1

Conway, David H. Sneaker. 3,464,125, 9-2-69, Cl. 36-2.5

Conway, Fred T. Temperament timer. 3,481,240, 12-2-69, Cl. 84-454.

Conway, Henry Lawrence: *See—*
Dent, Frederick James; Thompson, Brian Hoyle; and Conway, Henry Lawrence,3,484,219.

Conway, John Albert; and Barker, Cedric Chaffer, to De Havilland Aircraft of Canada, Limited, The. Cross ducting system for augmentor wing aircraft. 3,432,123, 3-11-69, Cl. 244-53.

Conwed Corporation: *See—*
Gaffney, Bernard James, 3,444,956.
Jones, W. Bartlett, 3,426,496.
Thomford, William F., 3,444,579.
Wagtskjold, Halvor Paul; Sundin, George H.; and Carlson, Lorien A., 3,470,978.

Conzinc Riotinto of Australia Limited: *See—*
Foley, Ernest; and Herwig, George L., 3,464,900.
Worner, Howard K., 3,463,472.
Worner, Howard Knox, 3,432,157.
Worner, Howard Knox, 3,437,330.

Coode, Edward John: *See—*
Watkin, David Anthony; Coode, Edward John; and Austen, Cecil John,3,435,685.

Coogan, Lawrence P.: *See—*
Campbell, Trevor G.; Coogan, Lawrence P.; and Hosoda, Yoshimi,3,434,738.

Cook, Alan Hugh; Rowley, William Richard Charlton; Stanley, Victor William; Wilson, David Charles; and Hitchens, Robert George, to National Research Development Corporation. System for the measurement of scale divisions including a mirror located external to an optical maser cavity. 3,486,824, 12-30-69, Cl. 356-106.

Cook, Alan Hugh; Rowley, William Richard Charlton; and Wilson, David Charles, to National Research Development Corporation. Control of optical masers or lasers. 3,469,205, 9-23-69, Cl. 331-94.5

Cook, Alfred W., to S-F-D Laboratories, Inc. Reverse magnetron having an output circuit employing mode absorbers in the internal cavity. 3,479,556, 11-18-69, Cl. 315-39.51

Cook, Alton A.; and Sapers, Ira, to Arkansas Company, Inc. Methods of processing wool and other hair fibers. 3,434,795, 3-25-69, Cl. 8-127.6

Cook, Bates C., Jr.; and Rovnyak, Richard M., to Automatic Electric Laboratories, Inc. Method and apparatus for making dimpled reed capsules. 3,440,032, 4-22-69, Cl. 65-160.

Cook, Bill D., to United States of America, Army. Laser output control system. 3,465,155, 9-2-69, Cl. 250-199.

Cook, Charles F.: *See—*
Bost, Howard W.; and Cook, Charles F.,3,479,398.

Cook, Charles J., to Clark Equipment Company. Spring biased valve. 3,433,455, 3-18-69, Cl. 251-321.

Cook, Charles R., Jr., to Texas Instruments, Incorporated. Method of making integrated circuits. 3,484,932, 12-23-69, Cl. 29-577.

Cook Chemical Company: *See—*
Clevenger, Juel D., 3,474,938.
Scoggin, Baxter I., Jr., 3,458,090.

Cook, Cleo E.: *See—*
Bassett, Arthur T., Jr.; Cook, Cleo E.; and Schuler, Thomas C.,3,473,733.

Cook, Clive Douglas: *See—*
Ness, Norman Morin; Palluel, Auguste Louis Lucien; and Cook, Clive Douglas,3,434,951.

Cook, David L.: *See—*
Hall, John S.; Carpenter, Peter E. G.; and Cook, David L.,3,470,507.

Cook, Don L. Liner for head covering. 3,464,064, 9-2-69, Cl. 2-190.

Cook, Donald L.; Hansen, Douglas R.; and Gillespie, Richard L., Sr., to Wham-O Mfg., Co. Flavoring device. 3,463,361, 8-26-69, Cl. 222-144.5

Cook, Douglas L.: *See—*
Cook, Irving L.; and Cook, Douglas L.,3,451,392.

Cook, Edmond A. Depth gauge for measuring the thickness of animal tissues. 3,478,435, 11-18-69, Cl. 33-169.

Cook, Edward G., to Crest Ultrasonics Corp. Method and apparatus for resonating small piezoelectric crystals at low frequencies. 3,433,462, 3-18-69, Cl. 259-1.

Cook, Edward H., Jr.; and Gretheer, Morris P., to Hooker Chemical Corporation. Electrolytic preparation. 3,475,301, 10-28-69, Cl. 204-82.

Cook, Edward H., Jr.: *See—*
Grotheer, Morris P.; and Cook, Edward H., Jr.,3,464,901.
Grotheer, Morris P.; and Cook, Edward H., Jr.,3,467,586.
Grotheer, Morris P.; Cook, Edward H.; and Snyder, Daniel J.,3,458,411.

Cook, Edward J., to Varian Associates. Loading control for externally loaded periodic circuits and tubes using same. 3,436,593, 4-1-69, Cl. 315-39.53

Cook, Edward J., to Varian Associates. Coaxial resonator structure for solid-state negative resistance devices. 3,443,244, 5-6-69, Cl. 331-96.

Cook, Edward J., to Varian Associates. Composite coaxial coupling device and coaxial window. 3,448,331, 6-3-69, Cl. 315-39.53

Cook, Edward J.; and Waterman, Alan P. High frequency apparatus employing a displacement current coupled solid-state negative-resistance device. 3,474,351, 10-21-69, Cl. 331-107.

Cook, Ernest E., to Hypro, Inc. Unloader valve. 3,457,941, 7-29-69, Cl. 137-108.

Cook, Ernest E.; and Pareja, Ramon, to Hypro, Inc. Pump with concentric valve means. 3,431,865, 3-11-69, Cl. 103-228.

Cook, Eugene M.: *See—*
Bishop, Frederic L.; Cook, Eugene M.; and Florence, Jack M.,3,475,150.

Cook, Evin L., to Mobil Oil Corporation. Vertical fracture control. 3,428,129, 2-18-69, Cl. 166-292.

Cook, Evin L., to Mobil Oil Corporation. Formation consolidation. 3,437,143, 4-8-69, Cl. 166-21.

Cook, Evin L.; and Talash, Alvin W., to Mobil Oil Corporation. In situ combustion process. 3,434,541, 3-25-69, Cl. 166-2.

Cook, George W., to Thiokol Chemical Corporation. System for evaluation of irregularities on large surfaces. 3,475,954, 11-4-69, Cl. 73-146.

Cook, Gerald H.: *See—*
Downey, Rogers B.; and Cook, Gerald H.,3,421,423.

Cook, Gerald H.; and Downey, Rogers B., to Polaroid Corporation. Camera apparatus. 3,446,131, 5-27-69, Cl. 95-13.

Cook, Gerald L.; and Presley, William E. Automatically adjusted mirrors for tractor-trailers. 3,469,901, 9-30-69, Cl. 350-289.

Cook, Harold D., to Teletype Corporation. Spiral-vertical parity generating system. 3,439,332, 4-15-69, Cl. 340-146.1

Cook, Harold De Poy, to American Machine & Foundry Company. Lawn mower. 3,423,919, 1-28-69, Cl. 56-249.

Cook, Harry C., to Esso Research and Engineering Company. Method of manufacturing pipe sections for the transportation of cryogenic liquids. 3,453,716, 7-8-69, Cl. 29-421.

Cook, Harvey A., to TRW Inc. Individual intake port carburetion system. 3,475,011, 10-28-69, Cl. 261-23.

Cook, Howard R.: *See—*
Packard, Norman M.; and Cook, Howard R.,3,473,209.

Cook, Hurley D., to Nalco Chemical Company. Apparatus for determining the fouling characteristics of intermediate petroleum distillates. 3,457,776, 7-29-69, Cl. 73-61.2

Cook, Hurley D.: *See—*
Waters, Robert F.; and Cook, Hurley D.,3,468,717.

Cook, Inc.: *See—*
Cook, William A.; van Westrum, Anthony Colby S.; Dotter, Charles T.; and Bilbao, Marcia Kepler, 3,481,323.

Cook, Irving L.; and Cook, Douglas L. Nose filter. 3,451,392, 6-24-69, Cl. 128-140.

Cook, Jack E.; and Marrs, Oren L., to Phillips Petroleum Company. Process for polymerizing fluoroolefins with a cyclic azo amidine free radical initiator. 3,428,618, 2-18-69, Cl. 260-92.1

Cook, James E.: *See—*
Stone, Leonard R.; Reim, Thomas E.; Muskovac, Nicholas G.; and Cook, James E.,3,431,415.

Cook, James M.: *See—*
Eskra, Rudolph; and Cook, James M.,3,440,765.

Cook, John Edward, to Metal Box Company Limited, The. Can end having removable strip. 3,425,590, 2-4-69, Cl. 220-54.

Cook, John E., to Owens-Illinois, Inc. Apparatus for forming glass articles with treating means. 3,445,219, 5-20-69, Cl. 65-267.

Cook, John M., to Grace, W. R., & Co. Flexible film wrapper. 3,429,717, 2-25-69, Cl. 99-171.

Cook, John W., to Westinghouse Electric Corporation. Large drive positioning control. 3,487,283, 12-30-69, Cl. 318-443.

Cook, Kenneth A.; and Wood, Harold R., to International Business Machines Corporation. Stacking device. 3,452,983, 7-1-69, Cl. 271-87.

Cook, Kenneth C.: *See—*
Lindberg, John E.; Cook, Leslie J.; and Cook, Kenneth C.,3,485,101.

Cook, Leslie J.: *See—*
Lindberg, John E.; Cook, Leslie J.; and Cook, Kenneth C.,3,485,101.

Cook, Lloyd A. Dump vehicle with fluid-slide unloading system. 3,481,647, 12-2-69, Cl. 298-24.

Cook, Loren, Company: *See—*
Nopper, Willard N., 3,454,128.

Cook, Louis John, Jr.: *See—*
Wiegert, Albert Carl; and Cook, Louis John, Jr.,3,420,520.

Cook, Loveda; and Farhi, Victor N. Tipping guard for use with a perforated head covering. 3,468,318, 9-23-69, Cl. 132-9.

Cook, Lucien H.; and Atkin, Sydney, to Chemical Construction Corporation. Manufacture of free flowing fertilizer product by coating granules with urea- formaldehyde from an alkaline solution. 3,477,842, 11-11-69, Cl. 71-28.

Cook, Marvin E. Brake releasing device for a railway air brake system. 3,480,337, 11-25-69, Cl. 303-73.

Cook, Melvin A.; Udy, Lex L.; and Clay, Robert B., to Intermountain Research and Engineering Company, Inc. Slurry blasting composition containing sulfur and having high sodium nitrate content. 3,473,983, 10-21-69, Cl. 149-41.

Cook, Melvin A.; and Ursenbach, Wayne O. Explosive composition containing an additional product of urea and nitric acid and method of preparing same. 3,457,127, 7-22-69, Cl. 149-46.

Cook, Melvin S., to Holobeam, Inc. Apparatus for and method of measuring length. 3,438,032, 4-8-69, Cl. 343-12.

Cook, Nathan H.; and Vaughn, Robert L., to Lockheed Aircraft Corporation. Method of machining metals and apparatus therefor. 3,424,054, 1-28-69, Cl. 90-11.

Cook, Newell C., to General Electric Company. Hydropyridines, triorganosilyl hydropyridines, and process for their preparation. 3,466,270, 9-9-69, Cl. 260-88.3

Cook, Newell C., to General Electric Company. Process for zirconiding and hafniding base metal compositions. 3,479,158, 11-18-69, Cl. 29-194.

Cook, Newell C., to General Electric Company. Process for titaniding base metals. 3,479,159, 11-18-69, Cl. 29-194.

Cook Paint & Varnish Company: *See—*
Gregg, John V., Sr., 3,436,024.
Pierce, Kenneth L.; and James, Robert W., 3,450,656.

Cook, Paul A.: *See—*
Crouch, Roy L.; and Cook, Paul A.,3,428,562.

Cook, Paul M., to Raychem Corporation. Irradiated article. 3,455,337, 7-15-69, Cl. 138-178.

Cook, Paul M. Tube driving apparatus. 3,474,870, 10-28-69, Cl. 173-91.

Cook, Peter. Ignition system. 3,476,098, 11-4-69, Cl. 123-148.

Cook, Ralph J.; and Moline, Clifford C., to Products Research & Chemical Corporation. Dispensing cartridge for intermixing separate ingredients. 3,475,010, 10-28-69, Cl. 259-47.

Cook, Ralph J.: *See—*
Schumann, Joseph M.; Stayboldt, Paul J.; and Cook, Ralph J.,3,439,839.

Cook, Richard R.: *See—*
Nelson, Ronald C.; and Cook, Richard R.,3,447,561.

Cook, Robert E., to Jenkins Equipment Company, Inc. Method of making a rotary brush. 3,442,555, 5-6-69, Cl. 300-21.

Cook, Robert E. Combined necklace and wristband including loop shortening means. 3,481,155, 12-2-69, Cl. 63-2.
Cook, Robert G., Sr.: *See—*
Smith, Glenn D.; and Cook, Robert G., Sr.,3,426,216.
Cook, Ronald Alan, to Ford Motor Company. Clutch with release levers. 3,439,789, 4-22-69, Cl. 192-70.3
Cook, Rufus Lee, to United States of America, Navy. Broadband power amplifier. 3,436,676, 4-1-69, Cl. 330-117.
Cook, Rufus Lee; and Whatley, Lucius D., Jr., to United States of America, Navy. Double serrated crystal transducer. 3,470,394, 9-30-69, Cl. 310-8.
Cook, Rufus L.; and Bealor, Jesse L., Jr., to United States of America, Navy. Variable focus electroacoustic transducer. 3,474,402, 10-21-69, Cl. 340-9.
Cook, Russell P., to Polaroid Corporation. Abrasion of the outer surfaces of film supports and rupturable containers to reduce blocking. 3,424,584, 1-28-69, Cl. 96-76.
Cook, Sam P., to Shell Oil Company. Optical acoustic seismic model. 3,484,739, 12-16-69, Cl. 340-15.5
Cook, Samuel Pinckney, to Shell Oil Company. Spatial filtering system utilizing reflection optics. 3,438,693, 4-15-69, Cl. 350-162.
Cook, Samuel P., to Shell Oil Company. Producing acoustic holograms. 3,484,740, 12-16-69, Cl. 340-15.5
Cook Testing Co.: *See—*
Page, John S., 3,434,535.
Page, John S., 3,448,802.
Page, John S., Jr., 3,454,092.
Page, John S., Jr., 3,455,381.
Page, John S., Jr., 3,473,606.
Reardon, Daniel R., 3,426,847.
Cook, Themster. Vacuum sweeping apparatus. 3,460,185, 8-12-69, Cl. 15-340.
Cook, Thomas F.; and Dybczak, Stanley E., to Vapor Corporation. Control for a steam generator. 3,425,622, 2-4-69, Cl. 236-25.
Cook, Thomas J.P.: *See—*
De Pass, Ernest T.; and Cook, Thomas J.P.,3,463,845.
Cook, Thomas L. Packaging machine. 3,485,009, 12-23-69, Cl. 53-55.
Cook, William A.; van Westrum, Anthony Colby S.; Dotter, Charles T.; and Bilbao, Marcia Kepler, said Cook, Dotter, and Bilbao assor to Cook, Inc., mesne. Gas injection syringe. 3,481,323, 12-2-69, Cl. 128-2.
Cook, William J. Device for determining firing condition of spark plugs. 3,452,270, 6-24-69, Cl. 324-17.
Cooke, Albert Edward, to Newmark Instruments Limited. Yarn supplying means for knitting machines. 3,478,945, 11-18-69, Cl. 226-109.
Cooke, Alf Limited: *See—*
Morcton, Douglas Arthur, 3,438,564.
Cooke, Brian Alfred; and Gourlay, George, to Imperial Chemical Industries Limited. Ion-exchange material from halogenated polyethylene. 3,433,755, 3-18-69, Cl. 260-2.2
Cooke, Claude E., Jr., to Esso Production Research Company. Miscible displacement oil recovery process. 3,446,282, 5-27-69, Cl. 166-9.
Cooke, Claude E., Jr.: *See—*
Williams, Robert E.; Ayers, Robert C., Jr.; and Cooke, Claude E., Jr.,3,444,930.
Cooke, Conrad Reginald. Synchro receiver responsive to the relative movement between two gratings. 3,441,741, 4-29-69, Cl. 250-237.
Cooke, Edward A.; and Carter, William H., to United States of America, Army. Firing pressure activation system for fuzes and components. 3,450,046, 6-17-69, Cl. 102-70.2
Cooke, Frank, to Pass, E., & Company Limited. Pipeline pluggers. 3,463,195, 8-26-69, Cl. 138-94.
Cooke, George H.; and Carl, William J. Vegetable trimmer. 3,452,794, 7-1-69, Cl. 146-108.
Cooke, Gordon Noel; Hall, Henry Patrick; and Lister-Kaye, John Christopher Lister, to Soil Fertility Limited. Method and apparatus for indicating the extent of land subjected to an agricultural operation. 3,481,545, 12-2-69, Cl. 239-172.
Cooke, Reginald Benjamin William, to International Standard Electric Corporation. Method of making an electrical assembly. 3,478,425, 11-18-69, Cl. 29-624.
Cooke, Robert R.; and Roudebush, Richard M., to Procter & Gamble Company, The. Cocoa-flavored liquid oil compositions. 3,433,649, 3-18-69, Cl. 99-118.
Cooke, William Ernest; Smits, Paul; and Cote, Jacques Francois, to Aluminium Laboratories Limited. Process and apparatus for continuous anodic treatment. 3,471,375, 10-7-69, Cl. 204-28.
Cooke-Yarborough, Edmund Harry; and Gibbons, Peter Edwin, to United Kingdom Atomic Energy Authority. Opto-electronic logic element. 3,461,297, 8-12-69, Cl. 250-213.
Cookney, Ernest W., to Dorr-Oliver Incorporated. Torsion bar skimmer. 3,465,887, 9-9-69, Cl. 210-525.
Cooksey, James D. Dispenser. 3,421,658, 1-14-69, Cl. 221-307.
Cooksey, William Harold, to Lucas, Joseph, (Industries) Limited. Ignition distributor adjustable from the exterior of the casing. 3,461,253, 8-12-69, Cl. 200-22.
Cooksey, William Harold, to Lucas, Joseph,(Industries) Limited. Ignition distributors utilizing a spring clip means. 3,479,472, 11-18-69, Cl. 200-19.
Cookson, Martin Alan: *See—*
Rollett, Anthony Victor; Smith, Alexander Steel; Cookson, Martin Alan; and Anderson, William,3,485,188.
Cookson Sheet Metal Developments Limited: *See—*
Cookson, William, 3,434,623.
Cookson, William, to Cookson Sheet Metal Developments Limited. Container with pull-tab opener. 3,434,623, 3-25-69, Cl. 220-54.
Cool, George E. Seat construction. 3,473,174, 10-21-69, Cl. 4-251.
Cooley, Claiborn, Jr., to FMC Corporation. Balancing mechanism. 3,458,167, 7-29-69, Cl. 248-292.
Cooley, Eugene A.: *See—*
Cousins, Richard C.; Cooley, Eugene A.; Worstell, Wayne C.; and Eaton, James L.,3,424,272.
Cooley, Gerald J.; Cormier, Thomas E.; and Sipple, Peter A., to Air Products and Chemicals, Inc. Refrigerated underground transmission line and process. 3,463,869, 8-26-69, Cl. 174-15.
Cooley, Henry A. Automotive cooling system flushing device. 3,435,847, 4-1-69, Cl. 137-612.1
Cooley, John A. Method of producing a ceramic gapped ceramet tape head. 3,425,120, 2-4-69, Cl. 29-603.
Cooley, Warren K.; and Mease, Ralph T., to Caled Products Company, Inc. Methods of treating used dry cleaning solvents. 3,452,110, 6-24-69, Cl. 260-654.
Cooley, William C., to Exotech Incorporated. Hypervelocity jet and projectile velocity augmenter. 3,465,639, 9-9-69, Cl. 89-8.
Cooley, William C., to Exotech Incorporated. Hypervelocity jet system. 3,468,217, 9-23-69, Cl. 89-8.
Cooley, William C., to Exotech Incorporated. Hypervelocity jet producing system employing an impact cumulation process. 3,468,481, 9-23-69, Cl. 239-101.
Cooley, William C., to Exotech Incorporated. Hypervelocity jet producing system employing an impact cumulation process. 3,478,966, 11-18-69, Cl. 239-302.
Cooley, William H.; and Allison, Kenneth C. Light sensitive coating for light transmitting body. 3,466,216, 9-9-69, Cl. 161-5.
Cooley, William H.; Allison, Kenneth C.; and Colburn, William. Heat and light glare reducing composition for glass. 3,466,181, 9-9-69, Cl. 106-189.
Cooling Development Ltd.: *See—*
Talbot, Edward B., 3,480,373.
Cooling Products, Inc.: *See—*
Certain, George M., 3,428,777.
Coombes, William S.: *See—*
Titchenal, Oliver R.; Jark, Fred; Coombes, William S.; and Ruf, Walter,3,465,876.
Coombs, Robert Victor: *See—*
Burn, Derek; Coombs, Robert Victor; and Petrow, Vladimir,3,442,891.
Coon, Donald B., to Western Reserve Electronics Inc. Card actuated programming device. 3,474,200, 10-21-69, Cl. 200-46.
Coon, Donald B., to Western Reserve Electronics Inc. Twin plug jack. 3,474,382, 10-21-69, Cl. 339-32.
Coon, Herb, to Hercules Clip Corporation. Clamping device. 3,456,262, 7-15-69, Cl. 24-137.
Cooney, James S., to Pylon Company Inc. Electrical contact. 3,435,168, 3-25-69, Cl. 200-166.
Cooney, Leo A.; and Nobili, Marco, to Hydroease Corporation. Fluid pressure braking system. 3,425,222, 2-4-69, Cl. 60-54.6
Coons, Royal E. Fruit segment squeezer. 3,469,525, 9-30-69, Cl. 100-234.
Coontz, John. Angle dozer. 3,439,752, 4-22-69, Cl. 172-805.
Coop, Frederick Charles; and Hodson, Harold Francis, to Burroughs Wellcome & Co., (U.S.A.) Inc. Phenoxyethyl-guanidines and the salts thereof. 3,474,134, 10-21-69, Cl. 260-501.14
Cooper, Abraham J. Dental restoration die and model jig. 3,461,562, 8-19-69, Cl. 32-40.
Cooper, Albert Charles: *See—*
Bowman, Francis; Cooper, Albert Charles; and Irving, Francis,3,424,708.
Cooper, Albert S., Jr.: *See—*
Sloan, William G.; Moore, Harry B.; Cooper, Albert S., Jr.; and Reeves, Wilson A.,3,480,382.
St.Mard, Hubert H.; Hamalainen, Carl; and Cooper, Albert S., Jr.,3,420,699.
Cooper, Allen E.: *See—*
Pike, Kenneth R.; Wilcox, Quentin I.; and Cooper, Allen E.,3,430,604.
Cooper, Barry A.: *See—*
Wharton, Willard H.; and Cooper, Barry A.,3,478,131.
Cooper, Bernard William; and Rubler, Jerome, to Spectronics Corporation. Method of making X-ray cassette. 3,435,511, 4-1-69, Cl. 29-476.
Cooper, Brian Frederick, to English Electric Valve Company Limited. Microwave tube cathode of the barium-calcium aluminate type. 3,441,781, 4-29-69, Cl. 313-346.

Cooper, Charles M.: *See—*
O'Shaughnessy, Lawrence P.; and Cooper, Charles M.,3,466,821.
Cooper, Charles R. Apparatus for batting practice. 3,475,026, 10-28-69, Cl. 273-26.
Cooper, Charles W.: *See—*
Falb, Richard D.; and Cooper, Charles W.,3,438,374.
Cooper, Charles W.; and Epstein, Michael, to Standard Pressed Steel Co. Pre-formed plastic locking element for fasteners. 3,437,541, 4-8-69, Cl. 156-306.
Cooper, Charles W.; and Grode, Gerald A., to Battelle Development Corporation, The, mesne. Adhesive bonding. 3,462,342, 8-19-69, Cl. 161-216.
Cooper, Cleveland N.: *See—*
Pandjiris, Anthony K.; and Cooper, Cleveland N.,3,461,738.
Cooper, Dale W.; and Kuhns, Perry W., to United States of America, National Aeronautics and Space Administration. Generator for a space power system. 3,447,003, 5-27-69, Cl. 310-54.
Cooper, Daniel Waumsley, to G.Q. Parachute Company Limited. Means for lowering loads. 3,480,108, 11-25-69, Cl. 182-133.
Cooper, David E., to Texaco Inc. Hydrocarbon separation process employing crystalline aluminosilicates. 3,461,065, 8-12-69, Cl. 208-310.
Cooper, David J., to Schering Corporation. Alkyl glycosides derived from gentamicin. 3,470,149, 9-30-69, Cl. 260-210.
Cooper, David, to General Electric Company. Static field shunt contactor control. 3,457,487, 7-22-69, Cl. 318-332.
Cooper, David, to General Electric Company. Speed tape brake modulation system. 3,466,524, 9-9-69, Cl. 318-363.
Cooper, Dennis Frederick: *See—*
Fish, Francis Edwin; and Cooper, Dennis Frederick,3,486,957.
Cooper, Dexter P., Jr., to Polaroid Corporation. Two-color line-sequential color television. 3,443,023, 5-6-69, Cl. 178-5.2
Cooper, Dexter P., Jr., to Polaroid Corporation. Comparison hotometer having superposed separately intelligible indicia. 3,447,877, 6-3-69, Cl. 356-230.
Cooper, Dexter P., Jr., to Polaroid Corporation. Image dissection camera. 3,459,111, 8-5-69, Cl. 95-36.
Cooper, Edward T.: *See—*
Todman, Howard F.; and Cooper, Edward T.,3,439,797.
Cooper, Frank W., to Columbian Carbon Company, mesne. Process for molding plastic articles having decorative panels thereon. 3,475,530, 10-28-69, Cl. 264-246.
Cooper, Frederick G., to Clarke Floor Machine Division, Studebaker Corporation. Conversion unit for floor scrubber. 3,466,690, 9-16-69, Cl. 15-50.
Cooper, George G.: *See—*
Zucker, Robert D.; and Cooper, George G.,3,466,779.
Cooper, George Leslie: *See—*
Fenton, Roger Wakefield; and Cooper, George Leslie,3,436,671.
Cooper, George L., to Arvey Corporation. Compartmented envelope having independently accessible compartments. 3,420,432, 1-7-69, Cl. 229-71.
Cooper, George W.: *See—*
Nagy, Jules G.; and Cooper, George W.,3,458,229.
Zweifel, Charles H.; and Cooper, George W.,3,436,113.
Cooper, Gerald M.: *See—*
Cooper, Wanda C.; and Cooper, Gerald M.,3,455,711.
Cooper, Guy F. Vertical-track free-fall system. 3,479,883, 11-25-69, Cl. 73-432.
Cooper, Hal B. H. Production of alkali metal borohydrides. 3,473,899, 10-21-69, Cl. 23-361.
Cooper, Harry Christopher, to A.P.V. Company Limited, The. Arrangements for in-place cleaning. 3,435,834, 4-1-69, Cl. 134-98.
Cooper, Harry Christopher, to A.P.V. Company Limited, The. Flow diversion controls. 3,444,891, 5-20-69, Cl. 137-608.
Cooper, Herbert Warren, to Westinghouse Electric Corporation. Precision interferometer navigation system. 3,434,144, 3-18-69, Cl. 343-108.
Cooper, Herbert W.: *See—*
Goldie, Harry; Cooper, Herbert W.; and Cooper, Lawson F.,3,440,486.
Cooper, Herbert W., to Westinghouse Electric Corporation. Microwave high power short pulse shaper. 3,458,817, 7-29-69, Cl. 325-180.
Cooper Industries, Inc.: *See—*
Mickle, Scott C., 3,447,427.
Zelnick, Charles, 3,439,428.
Cooper, Irving B., Jr., to Industrial Instrumentations, Inc. Control systems. 3,422,252, 1-14-69, Cl. 235-61.11
Cooper, Irving B., Jr., to Industrial Instrumentations, Inc. Data storage circuit utilizing a controlled rectifier. 3,478,330, 11-11-69, Cl. 340-173.
Cooper, Irwin: *See—*
Josefowicz, Edmund L.; Cooper, Irwin; and Melnick, Daniel,3,457,086.
Cooper, Jacob; and Corbett, Carl E., to Foster Wheeler Corporation. Vapor generator seal arrangement. 3,444,841, 5-20-69, Cl. 122-6.
Cooper, James C.; and Wissick, William P., to International Business Machines Corporation. Multi-system sharing of data processing units. 3,445,819, 5-20-69, Cl. 340-172.5
Cooper, James N., 1/3 to Hurvitz, Hyman. Magnetic tape editing machine. 3,459,901, 8-5-69, Cl. 179-100.2
Cooper, Jamexs; King, Lewis E.; and MacSorley, Olin L., to International Business Machines Corporation. Variable priority storage accessing control. 3,478,321, 11-11-69, Cl. 340-172.5
Cooper, John H., to Sperry Rand Corporation. Means for cutting wire by wire-melting electrical pulses. 3,431,384, 3-4-69, Cl. 219-68.
Cooper, John M. Drafting instrument. 3,425,128, 2-4-69, Cl. 33-107.
Cooper, John N. Knife construction. 3,481,038, 12-2-69, Cl. 30-344.
Cooper, Joseph F., to Kollsman Instrument Corporation. Gear-generating machine. 3,473,267, 10-21-69, Cl. 51-52.
Cooper, Joseph H.; and Klein, Oscar J. C., to Du Pont de Nemours, E. I., and Company. Process for oxidizing dihydroquinacridones to quinacridones. 3,475,436, 10-28-69, Cl. 260-279.
Cooper, Joseph H.: *See—*
Seeloff, Melvin M.; and Cooper, Joseph H.,3,433,537.
Seeloff, Melvin M.; and Cooper, Joseph H.,3,457,834.
Cooper, Julius, to Ideal Toy Corporation. Water hazard accessory track unit. 3,456,596, 7-22-69, Cl. 104-60.
Cooper, Julius, to Ideal Toy Corporation. Pneumatic remote control assembly. 3,481,067, 12-2-69, Cl. 46-1.
Cooper, Julius, to Ideal Toy Corporation. Service station accessory track unit. 3,481,279, 12-2-69, Cl. 104-60.
Cooper, Julius; and Nemeth, Henry, to Ideal Toy Corporation. Throwing dart with fly-apart wings. 3,454,278, 7-8-69, Cl. 273-106.5
Cooper, Kenneth R., to Contemporary Walls Limited. Terminal exit for forced air circulating systems. 3,439,601, 4-22-69, Cl. 98-90.
Cooper, Kermit H., to Customized Sealers Corporation. Means for converting a manual bench sealer to an automatic sealer. 3,428,512, 2-18-69, Cl. 156-515.
Cooper, Lawson F.: *See—*
Goldie, Harry; Cooper, Herbert W.; and Cooper, Lawson F.,3,440,486.
Cooper, Leslie Ernest; and Pickup, Kenneth George, to Distillers Company Limited, The. Production of alkanols. 3,431,311, 3-4-69, Cl. 260-638.
Cooper, Lester E. Spare tire mounting racke. 3,482,749, 12-9-69, Cl. 224-42.04
Cooper, M. D. Test plug. 3,457,959, 7-29-69, Cl. 138-90.
Cooper, Martin H.; and Hawkins, Thomas D., to United Nuclear Corporation. Extraction of salts from saline water using dimethylsulfoxide. 3,450,508, 6-17-69, Cl. 23-312.
Cooper, McDougall & Robertson Ltd.: *See—*
Lee, Ronald H. D. F.; and Dixon, Kay, 3,459,338.
Cooper, Pascal W.: *See—*
Gasser, Robert A.; and Cooper, Pascal W.,3,436,405.
Cooper, Paul V., to Hughes Aircraft Company. Reactive waveguide post. 3,449,698, 6-10-69, Cl. 333-98.
Cooper, Peter G.; Michelon, Philippe A.; and Murphy, Clarence R., to Gulf Research & Development Company. Dehydration of benzophenone 3,4,3',4'- tetracarboxylic acid to benzophenone 3,4,3',4'- tetracarboxylic dianhydride. 3,461,139, 8-12-69, Cl. 260-346.2
Cooper, Peter James. Control circuit for electric heater. 3,466,428, 9-9-69, Cl. 219-501.
Cooper, Ralph F.; and Wenger, Courtney H. Tire building drum. 3,485,700, 12-23-69, Cl. 156-417.
Cooper, Raymond: *See—*
Rew, Ian Arthur; Bell, Robert Valentine; and Cooper, Raymond,3,428,897.
Cooper, Richard A. Partition wall construction. 3,460,302, 8-12-69, Cl. 52-242.
Cooper, Robert R.; and Castello, Anthony M., to Coleman Company, Inc., The. Radiator mounting assembly for gas wall heater. 3,446,202, 5-27-69, Cl. 126-90.
Cooper, Robert S.; and Urfer, Allen D., to Stauffer Chemical Company. Tableted detergents having improved green strength. 3,423,322, 1-21-69, Cl. 252-135.
Cooper, Roydon B., to Pall Corporation. Frustoconical filter fittings. 3,458,050, 7-29-69, Cl. 210-448.
Cooper, Roydon C.: *See—*
Gross, Robert I.; and Cooper, Roydon C.,3,428,251.
Cooper, Sheldon F. Detachable lens assembly for spectacle frames. 3,453,042, 7-1-69, Cl. 351-86.
Cooper, Thomas S.; and Norton, David E., to International Business Machines Corporation. Drive system for a magnetic core array. 3,445,831, 5-20-69, Cl. 340-174.
Cooper, Wanda C.; and Cooper, Gerald M. Paper-based molding material. 3,455,711, 7-15-69, Cl. 106-115.
Cooper, William J.: *See—*
Hough, William V.; and Cooper, William J.,3,455,661.
Cooperman, Harry N.: *See—*
Schwartz, Robert; and Cooperman, Harry N.,3,465,443.

Cooperman, Isadore Nathan: *See—*
Dickstein, Jack; Cooperman, Isadore Nathan; and Cesanek, James John,3,442,831.
Cooper's Incorporated:*See—*
Erickson, Wallace R.; and Whitcomb, John G., 3,486,501.
Cooperstein, Mitchell. Closure device for milk carton. 3,463,380, 8-26-69, Cl. 229-45.
Coopexim, Spoldzielcze Przedsiebiorstwo Handlu Zagranicznego: *See—*
Horodko, Romuald; Rzuchowska, Ida; Szajng, Danuta; Walewska, Kazimiera; and Zukowska, Maria, 3,484,070.
Coordes, John E.; and Fuller, Samuel H., Jr., to United States of America, Army. Vehicle control. 3,444,945, 5-20-69, Cl. 180-19.
Coors, Adolph, Company: *See—*
Millard, Raymond L.; and Tschannen, Arthur W., 3,438,531.
Coors Porcelain Company: *See—*
Herbert, Wilbur F., 3,442,994.
Landes, Benjamin D.; and Paricio, Ray, 3,430,393.
Landes, Benjamin Daniel; Paricio, Ramon, Jr.; and Andrews, Richard E., 3,462,090.
Maytag, John Hardy, 3,425,251.
Waterman, Frederick W., III., 3,420,123.
Coot, Inc.: *See—*
Enos, Carl E., 3,426,720.
Coote, John M., to Cutler-Hammer Inc. Multifield comparator adjustable to compare any combinations of fields and to provide selectable bases of comparison. 3,434,109, 3-18-69, Cl. 340-146.2
Cootey, Thomas A.; and Fischer, Larry M., to Friedrich Refrigerators, Incorporated. Electronic head pressure control for condensing units. 3,478,532, 11-18-69, Cl. 62-184.
Coover, Harry W., Jr.; and Fassett, David W., to Eastman Kodak Company. Surgical use of adhesive compositions. 3,483,870, 12-16-69, Cl. 128-334.
Coover, Harry W., Jr.; and Joyner, Frederick B., to Uniroyal, Inc., mesne. Dyeable polypropylene fibers containing copolymers of acrylates, methacrylates, vinyl pyridines and N-substituted acrylamides. 3,439,066, 4-15-69, Cl. 260-895.
Coover, Harry W., Jr.; and McConnell, Richard L., to Eastman Kodak Company. Poly-1-butene master batches. 3,455,871, 7-15-69, Cl. 260-41.
Coover, Harry W., Jr.; and Shields, Donald J., to Eastman Kodak Company. Continuous equilibrium process for preparing biphase plastics. 3,449,472, 6-10-69, Cl. 260-880.
Coover, Harry W., Jr.: *See—*
McConnell, Richard L.; and Coover, Harry W., Jr.,3,450,677.
Coovert, Gilbert T.: *See—*
Jureit, John Calvin; and Coovert, Gilbert T.,3,427,055.
Cope, Appleton D.; Luedicke, Edward; and Ziemelis, Ojars J., to RCA Corporation. Television camera including an image isocon tube. 3,471,741, 10-7-69, Cl. 315-11.
Cope, Arthur C.; and Burrows, William Dickinson, to Merck & Co., Inc.α,α,1,6-Tetramethyl-3-piperidine- methanols and their preparation. 3,422,451, 1-14-69, Cl. 260-294.7
Cope, Arthur C.; Engelhardt, Edward L.; Keene, Katheryn, executris of the estate of; and Cope, Arthur C., deceased, to Merck & Co., Inc. 5-(Tertiaryaminoalkylene)-5 hydroxy and 5- (tertiary aminoalkylidene)-dibenzocycloheptatrienes, and salts thereof. 3,454,643, 7-8-69, Cl. 260-570.8
Cope, Arthur C.; and Siekman, Robert W., to Massachusetts Institute of Technology. Azo-containing organo-metallic complexes. 3,424,739, 1-28-69, Cl. 260-148.
Cope, Arthur C.: *See—*
Cope, Arthur C.; Engelhardt, Edward L.; Keene, Katheryn, executris of the estate of; and Cope, Arthur C., deceased,3,454,643.
Cope, Cecil E.: *See—*
Tucker, Dalton R., 3,465,544.
Cope, Geoffrey W., to Dresser Industries, Inc. Electric coupler cover assembly. 3,438,511, 4-15-69, Cl. 213-1.3
Cope, Geoffrey W., to Symington Wayne Corporation. Hydraulically dampered cross equalized trucks. 3,439,630, 4-22-69, Cl. 105-196.
Cope, Geoffrey W., to Symington Wayne Corporation. Hydraulically dampened cross-equalized truck. 3,439,631, 4-22-69, Cl. 105-197.
Cope, Geoffrey W., to Dresser Industries, Inc. Automatic coupler centering device. 3,481,491, 12-2-69, Cl. 213-20.
Cope, Geoffrey W., to Dresser Industries, Inc. Coupler positioning device. 3,484,000, 12-16-69, Cl. 213-20.
Cope, Geoffrey W.; and Suckow, Fred G., to Symington Wayne Corporation. Friction-polyurethane rubber draft gear. 3,465,900, 9-9-69, Cl. 213-22.
Cope, Gerald R.; Smoot, Thomas W.; and Renkey, Albert L., to Dresser Industries, Inc. Tar impregnated fused silica stopper head. 3,429,486, 2-25-69, Cl. 222-559.
Cope, John M.; and Webster, John V., to Roper Corporation. Impeller for rotary snow removal apparatus. 3,452,460, 7-1-69, Cl. 37-43.
Cope, Oswald James, to Du Pont de Nemours, E. I., and Company. Polymer blends of polyethylene terphthalate and α-olefin,α,β-unsaturated carboxylic acid copolymers. 3,435,093, 3-25-69, Cl. 260-857.
Cope, Paul E.: *See—*
Clement, Finn; and Cope, Paul E.,3,441,057.
Copel, Michel, to Integrated Electronics Corporation. Apparatus and method for reconstructing speech. 3,431,356, 3-4-69, Cl. 179-1.
Copeland, Ben H., to Texas Instruments, Incorporated. Braze grounded lead header. 3,435,520, 4-1-69, Cl. 29-628.
Copeland, Claude T.: *See—*
Coulter, Albert W., Jr.; Copeland, Claude T.; and Kucera, Clare H.,3,443,386.
Copeland, George G., to Container Corporation of America. Fluidized bed reactor with improved constriction plate. 3,462,246, 8-19-69, Cl. 23-284.
Copeland, Henry W., Jr.: *See—*
Moorhead, William H., Jr.; and Copeland, Henry W., Jr.,3,443,529.
Copeland, Jacob C., 30% to Greene, Orville N. Piston type dispenser. 3,459,341, 8-5-69, Cl. 222-386.
Copeland, John A., III, to Bell Telephone Laboratories, Incorporated. Circuits using an LSA oscillator as an amplifier. 3,477,029, 11-4-69, Cl. 330-5.
Copeland, John R.; and Kitzerow, Richard A., to Ohio State University Research Foundation, The. Surface wave antenna having discontinuous coaxial line. 3,480,961, 11-25-69, Cl. 343-765.
Copeland, John S.: *See—*
Levine, Samuel W.; and Copeland, John S.,3,420,151.
Copeland, Jones E. Trash pickup and disposal device. 3,447,179, 6-3-69, Cl. 15-81.
Copeland, Ralph A. Substituted quinones and dimine quinones as silver halide sensitizers. 3,420,667, 1-7-69, Cl. 96-107.
Copeland, Ralph A., to GAF Corporation. Merocyanine dyes containing the carbostyril nucleus. 3,449,335, 6-10-69, Cl. 260-240.4
Copeland Refrigeration Corporation: *See—*
Cheney, Lawrence W.; and Short, James A., 3,473,730.
Gleason, Frank J., Jr.; and Comstock, Russell E., 3,458,121.
Copen, Daniel B., to Peerless Plastics, Inc. Adjustable strap construction. 3,430,299, 3-4-69, Cl. 24-73.
Copen, Daniel B.: *See—*
Goldstein, Sam S.; and Copen, Daniel B.,3,454,068.
Copenhefer, John E.; and Heh, George J., to American Air Filter Company, Inc. Method and apparatus for making filamentous mat. 3,459,613, 8-5-69, Cl. 156-167.
Coplan, Grace A. Clothes drying rack. 3,471,031, 10-7-69, Cl. 211-86.
Copley, John R.; Cuming, William R.; and Rowe, Paul E., to Emerson & Cuming, Inc. Closed-cell ceramic article and method. 3,425,577, 2-4-69, Cl. 215-1.
Copley, Russell Dean; and Sutherland, Gail Russell, to Deere & Company. Discharge structure for cotton harvester. 3,464,191, 9-2-69, Cl. 56-12.
Coplin, John Frederick; Longley, Peter; and Blackhurst, Robert Vaughan, to Rolls-Royce Limited. Bearing assembly. 3,421,686, 1-14-69, Cl. 230-116.
Copolymer Rubber & Chemical Corporation: *See—*
Carpenter, Paul G., 3,422,051.
Gros, Harold Joseph, 3,426,063.
Meredith, Curtis L., 3,480,066.
Wahlborg, Harold J.; and Bond, William C., Jr., 3,487,053.
Copony, Edward L.; and Gerstenmaier, William J., to Symington Wayne Corporation. Ticket printer. 3,428,786, 2-18-69, Cl. 235-61.9
Copony, Edward L.; Pedroli, Walter E.; and Hermann, Robert, to Symington Wayne Corporation. Ticket printing device for dispenser. 3,434,155, 3-18-69, Cl. 346-43.
Coppa, Anthony P., to General Electric Company. Method of making flexible conduit. 3,467,042, 9-16-69, Cl. 113-116.
Coppen, Peter J.: *See—*
Heynes, Michael S. R.; and Coppen, Peter J.,3,447,238.
Coppen, Peter J., to International Telephone and Telegraph Corporation. High frequency field effect transistor. 3,440,500, 4-22-69, Cl. 317-235.
Copper, Brian Frederick, to English Electric Valve Company Limited. Magnetrons having cyclically varying frequencies. 3,441,796, 4-29-69, Cl. 315-39.61
Copper, George D. Lighting device for transmitting visible radiant energies to inaccessible places. 3,455,622, 7-15-69, Cl. 350-1.
Copper Range Company: *See—*
Finlay, Walter L.; Hay, Donald A.; and Hess, Wendell T., 3,474,516.
Coppeta, Leonard T., to Carter's Ink Company, The. Porous applicator prepared by bonding thermoplastic fibrous flock particles at point of contact with the aid of a plasticizer. 3,432,446, 3-11-69, Cl. 260-2.5
Copping, Bruce G.; and Friendship, Kenneth F., to Meyer, Geo. J., Manufacturing Co. Apparatus for filling containers with beverages. 3,443,608, 5-13-69, Cl. 141-46.
Copping, Geoffrey Percy; and Whittington, Kenneth William Herbert, to Postmaster General, Her Majesty's. Apparatus for printing code marks from a fluid medium. 3,442,208, 5-6-69, Cl. 101-318.
Copple, Christopher J.: *See—*
Shepherd, John M.; Copple, Christopher J.; and Tattersall, David,3,481,129.

Copple, William E.: *See—*
Mail, Isaac Paul; and Copple, William E.,3,446,488.
Coppock, Alden D.: *See—*
Dixon, Peter Ray; and Coppock, Alden D.,3,432,253.
Coppola, Francis S. Scale with index means for determining changes in volume of a material. 3,481,413, 12-2-69, Cl. 177-173.
Coppola, Girolamo: *See—*
Pasin, Alberto; and Coppola, Girolamo,3,472,827.
Coppus Engineering Corporation: *See—*
Geoffroy, David R., 3,450,339.
Corak, William S.: *See—*
Gallagher, Robert C.; and Corak, William S.,3,448,353.
Coraluppi, Enzo: *See—*
Magagnoli, Remo; and Coraluppi, Enzo,3,446,622.
Coraluppi, Enzo; and Magagnoli, Remo, to Ferrania, S.p.A. Color photographic images utilizing ureido indazolone couplers. 3,486,894, 12-30-69, Cl. 96-56.5
Coran, Aubert Yaucher; and Kerwood, Joseph Edward, to Monsanto Company. Benzimidazolinones. 3,427,319, 2-11-69, Cl. 260-309.2
Coran, Aubert Yaucher; and Kerwood, Joseph Edward, to Monsanto Company. Certain N-thio-2-imdazolidinones. 3,473,667, 10-21-69, Cl. 260-309.7
Corazza, Marshall L., to Scott Paper Company. Method for forming foam articles. 3,484,510, 12-16-69, Cl. 264-51.
Corbaz, Andre. Method of and an apparatus for controlling electromechanical organ with on-off operation in accordance with a digital program in a machine having a variable operating speed. 3,470,714, 10-7-69, Cl. 66-50.
Corbell, Paul I., to Johnson Service Company. Intrusion alarm system having authorization capability with tamper detection means. 3,470,554, 9-30-69, Cl. 340-274.
Corbellini, Carlo: *See—*
Mercier, Jacques H.; and Corbellini, Carlo,3,450,163.
Corbett Associates, Inc.: *See—*
Corbett, Robert B., 3,466,352.
Corbett, Burton, to Miami Copper Company. Process and reagent for recovery of molybdenite from copper sulfide-molybdenite flotation concentrates. 3,435,952, 4-1-69, Cl. 209-167.
Corbett, Carl E.: *See—*
Cooper, Jacob; and Corbett, Carl E.,3,444,841.
Corbett, George Lawrence, to Portable Balers Limited. Baling machines. 3,463,079, 8-26-69, Cl. 100-215.
Corbett, Herbert O., to National Distillers and Chemical Corporation. Plastic laminated bag structure having curled edges. 3,423,010, 1-21-69, Cl. 229-53.
Corbett, Herbert O., to National Distillers and Chemical Corporation. Extrusion die having angularly moving central mandrel. 3,440,686, 4-29-69, Cl. 18-14.
Corbett, Herbert O.; Quackenbush, John J.; and Allen, Charles H., to Mobil Oil Corporation, mesne. Producing thermoplastic films. 3,471,606, 10-7-69, Cl. 264-209.
Corbett, Herbert O.; Quackenbush, John J.; and Newman, James B., Jr., to National Distillers and Chemical Corporation. Bag making machinery. 3,454,447, 7-8-69, Cl. 156-351.
Corbett, Herbert O.: *See—*
Quackenbush, John J.; and Corbett, Herbert O.,3,472,430.
Quackenbush, John J.; and Corbett, Herbert O.,3,473,193.
Quackenbush, John J.; and Corbett, Herbert O.,3,485,907.
Corbett, Luke W., to Esso Research and Engineering Company. Petrolene composition containing atactic polyolefin. 3,453,226, 7-1-69, Cl. 260-28.5
Corbett, Luke W.: *See—*
Young, Dale A.; and Corbett, Luke W.,3,437,614.
Corbett, Michael J.: *See—*
Osborne, Fred H.; and Corbett, Michael J.,3,420,532.
Corbett, Robert B., to Corbett Associates, Inc. Process for producing fibers. 3,466,352, 9-9-69, Cl. 264-7.
Corbett, Sydney C., to Hockley Chemical Company Limited, The. Treatment apparatus. 3,481,347, 12-2-69, Cl. 134-69.
Corbett, William Michael; and Harrison, David, to Imperial Chemical Industries Limited. Process for modifying the surface of shaped synthetic fibre-forming polymer articles with copolymer containing polyoxy alkylene segments hindered phenol antioxidant and peroxide decomposer. 3,459,590, 8-5-69, Cl. 117-138.8
Corbiere, Paul Jacques; and Rosset, Jean-Baptiste, to Crylor. Compositions of carbon black and polyacrylonitrile and method for their preparation. 3,468,841, 9-23-69, Cl. 260-41.5
Corbin, Andre A.: *See—*
Vivancos, Julien; and Corbin, Andre A.,3,463,204.
Corbin, Barney G.; Sender, David S.; and Lawrence, Beverlee. Disposable douche device. 3,474,788, 10-28-69, Cl. 128-227.
Corbin, Raymond Le Rae, to Johns-Manville Corporation. Roofing shingle. 3,434,259, 3-25-69, Cl. 52-420.
Corbin, Robert C., to Kerotest Manufacturing Corporation. Pressure actuated relief valve. 3,426,779, 2-11-69, Cl. 137-68.
Corbin, Russel G., to General Motors Corporation. Rear view mirror support. 3,471,115, 10-7-69, Cl. 248-483.
Corby, Peter J. S., to Rondel Limited. Trousers press. 3,477,154, 11-11-69, Cl. 38-71.
Corcoran, John F.: *See—*
Shirley, William C.; and Corcoran, John F.,3,459,416.
Corcoran, John M.: *See—*
Brahm, Charles B.; Corcoran, John M.; Glista, Edward M.; and Van Olinda, David L.,3,478,512.
Cord, William K. Sanitary devices. 3,485,233, 12-23-69, Cl. 128-2.
Cordani, Eugene J., to ACF Industries Incorporated. Foldable bulkhead for a railroad flatcar. 3,464,368, 9-2-69, Cl. 105-369.
Cordani, Eugene J.; and Sittner, Edward H., to ACF Industries Incorporated. Cover for deck openings in railway flatcars. 3,431,868, 3-11-69, Cl. 105-366.
Cordano, Richard D.: *See—*
Black, Robert J.; Thaler, George J.; Prentky, Peter I.; and Cordano, Richard D.,3,426,337.
Cordary, Bruce J.: *See—*
Van Note, Charles O., Jr.; and Cordary, Bruce J.,3,476,415.
Cordell, Carl R., Jr.: *See—*
Shearer, William E., 3,449,853.
Cordell, Martin, to Studley Paper Company, Inc. Vacuum cleaner filter bag. 3,440,805, 4-29-69, Cl. 55-368.
Cordell, Ray R., to Gustafson Manufacturing Company. Automatic sampling system. 3,472,079, 10-14-69, Cl. 73-424.
Corder, James T. Musical drum. 3,435,723, 4-1-69, Cl. 84-411.
Corder, Richard E.: *See—*
McGregor, James D.; and Corder, Richard E.,3,460,758.
Cordero, Humberto R., to International Business Machines Corporation. Addressing system for a computer employing a plurality of local storage units in addition to a main memory. 3,432,810, 3-11-69, Cl. 340-172.5
Cordes, Charles P. Snare drum brush. 3,420,134, 1-7-69, Cl. 84-422.
Cordes, Hans: *See—*
Adolphi, Heinrich; and Cordes, Hans,3,482,921.
Cordes, Hugh B.: *See—*
Heckathorn, Loyd E.; and Cordes, Hugh B.,3,486,565.
Cordes, Hugo H.; and Kroger, Hans A. Control for a ramming hammer with hydraulic drive. 3,468,222, 9-23-69, Cl. 91-222.
Cordes, Willy. Picture demonstration vehicle. 3,475,045, 10-28-69, Cl. 296-1.
Cordiano, Ettore, to Fiat Societa per Azioni. Synchroniser for a motor vehicle gearbox. 3,459,286, 8-5-69, Cl. 192-53.
Cordis Corporation: *See—*
Keller, John W., Jr., 3,474,353.
Keller, John Walter, Jr., 3,431,912.
Keller, John Walter, Jr., 3,433,228.
Stevens, Robert C., 3,485,234.
Williamson, Donald E., 3,459,337.
Cordon, William A. Cement mixes and the production of articles therefrom. 3,486,916, 12-30-69, Cl. 106-90.
Cordone, Leonard; Dobslaw, Gerhardt A.; and Okoniewski, Robert J., to Rockwell Manufacturing Company. Power tool. 3,454,061, 7-8-69, Cl. 144-134.
Cordova, Elmer R. Motorized lazy-susan table. 3,448,701, 6-10-69, Cl. 108-20.
Cordray, Roy E.: *See—*
McElwee, Lorin A.; Cordray, Roy E.; and Greene, George J., Jr.,3,439,161.
Cords, Helmuth; and White, Carlos A., to International Minerals & Chemical Corporation. Oral larvicidal composition containing bacillus sphaericus. 3,420,933, 1-7-69, Cl. 424-84.
Corduroy Rubber Co.: *See—*
Wahn, Harvey L., 3,459,350.
Cordy, Clifford B., Jr., to Union Carbide Corporation. Method and means for heat sinking laser rods. 3,487,332, 12-30-69, Cl. 331-94.5
Core Laboratories, Inc.: *See—*
Redwine, Fletcher H.; Newman, James L.; and Osborn, William F., 3,486,375.
Coreci, Compagnie de Regulation et de Controle Industriel: *See—*
Frachon, Marc, 3,434,207.
Cored Panels, Inc.: *See—*
Horton, John F., Jr., 3,434,434.
Corella, Arthur P. Closure for flexible packages. 3,462,070, 8-19-69, Cl. 229-56.
Corella, Arthur P.: *See—*
Schneider, William S.; and Corella, Arthur P.,3,432,986.
Corey, Jan Micheal. Machine tool. 3,434,242, 3-25-69, Cl. 51-34.
Corey, Lawrence G., to Arrow-Hart & Hegemen Electric Company, The. Solid state load control. 3,470,458, 9-30-69, Cl. 323-22.
Corey, Lawrence G.: *See—*
Opalenik, John J.; and Corey, Lawrence G.,3,484,632.
Corey, Philip D., to General Electric Company. Inverter inhibit circuits. 3,448,367, 6-3-69, Cl. 321-12.
Corey, Ronald David. Piping. 3,486,774, 12-30-69, Cl. 285-334.5
Corhart Refractories Company, Inc.: *See—*
Begley, Edward R.; Patrick, Robert F.; and Wehrenberg, Thomas M., 3,470,004.
Bonner, Glenn H.; Doman, Robert C.; Iseli, Robert W.; and Papa, Pellegrino, 3,487,136.
Nordlie, Lawrence A., 3,467,542.
Corijnen, Guido C., to Burroughs Corporation. Ferroelectric storage means. 3,422,400, 1-14-69, Cl. 340-173.2
Corillium Corporation: *See—*
Woods, Roger M.; and Moul, David R., 3,442,777.

Woods, Roger M.; and Moul, David R., 3,454,474.
Corini, Louis J.: *See—*
Brodsky, Benjamin; and Corini, Louis J.,3,445,039.
Corinthian Cornice Systems, Inc.: *See—*
Miles, Russel T.; and Anderson, Philip R., 3,440,778.
Corish, Patrick J.: *See—*
Haines, Robert C.; and Corish, Patrick J.,3,432,165.
Cork, Gordon H., to Gemco Electric Co. Electric switch mechanism. 3,474,204, 10-21-69, Cl. 200-164.
Corleis, Horst; Bernotat, Rainer; and Roessger, Edgar, to Licentia Patent-Verwaltungs-G.m.b.H. Apparatus for calibrating compasses. 3,466,923, 9-16-69, Cl. 73-1.
Corlett, Ewan Christian Brew: *See—*
Clark, Ronald; and Corlett, Ewan Christian Brew,3,442,244.
Clark, Ronald; and Corlett, Ewan Christian Brew,3,457,891.
Corlett, Webster D., to Standard Screw Company. Mixing valve. 3,420,272, 1-7-69, Cl. 137-636.3
Corley, Boyce M., to North American Rockwell Corporation. Composite propellant composition of vinyl polymer with added polyisobutylene. 3,424,630, 1-28-69, Cl. 149-19.
Corley, Charles B., Jr.; and Bohlmann, Willy F., Jr., to Esso Production Research Company. Installation of control lines on underwater well. 3,426,842, 2-11-69, Cl. 166-0.5
Corley, Clifton. Contact lens handling apparatus. 3,424,486, 1-28-69, Cl. 294-64.
Corley, Ferrand D. E. Colour film reproducing system. 3,482,915, 12-9-69, Cl. 355-37.
Corley, Ralph C.: *See—*
Beitler, Richard S.; Corley, Ralph C.; and Kast, Howard B.,3,456,881.
Corley, William G.; and Sermon, George T., to Carbond Corporation. Electrolytic grinding tools. 3,476,677, 11-4-69, Cl. 204-294.
Corley-Miller, Inc.: *See—*
Arvidson, Bengt A.; and Barber, Ralph F., 3,453,167.
Treiber, Fritz F., 3,429,098.
Treiber, Fritz F., 3,478,486.
Corliss, Robert F., to Monogram Industries, Inc. Portable electric toilet. 3,454,967, 7-15-69, Cl. 4-77.
Cormack, Alexander D., to Jones Division, Beloit Corporation. Circular target for high volume entrained refiner discharge. 3,449,206, 6-10-69, Cl. 162-261.
Corman, Blaine G.: *See—*
Hopper, Jack R.; and Corman, Blaine G.,3,422,012.
Corman, Edward M.: *See—*
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A.,3,421,267.
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A.,3,421,274.
Corman, Erskine G.: *See—*
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R.,3,424,529.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R.,3,461,788.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R.,3,476,479.
Corman, Guy Albert, to Verrerie Souchon-Neuvesel, Societe Anonyme. Method and apparatus for measuring the thickness of an insulating layer by variation of the dielectric of a condenser using a contacting electrode. 3,421,078, 1-7-69, Cl. 324-61.
Cormia, Robert L., to General Electric Company. Method for applying a mar-resistant film to a plastic surface and the product produced thereby. 3,458,342, 7-29-69, Cl. 117-61.
Cormier, Claude J.: *See—*
Chopra, Sohinder Nath; Cormier, Claude J.; and Tessier, Joseph D. L.,3,424,834.
Cormier, George E.; and Netherwood, Paul H., to Sprague Electric Company. Encapsulated capacitor. 3,431,473, 3-4-69, Cl. 317-258.
Cormier, Gerard A., to Textron Inc. Machine tool control system. 3,481,231, 12-2-69, Cl. 82-21.
Cormier, Louis A. Kit for constructing ladders and the like. 3,476,211, 11-4-69, Cl. 182-22.
Cormier, Paul Joseph. First aid strap. 3,467,085, 9-16-69, Cl. 128-83.
Cormier, Thomas E.: *See—*
Cooley, Gerald J.; Cormier, Thomas E.; and Sipple, Peter A.,3,463,869.
Corn, Murray E., to Chemical and Pharmaceutical Patent Holding Ltd. Process for the production of a pharmaceutical antibiotic preparation having delayed therapeutic action and the composition prepared according to such process. 3,485,914, 12-23-69, Cl. 424-22.
Corn, Prentice R.: *See—*
Wolf, Walter A.; and Corn, Prentice R.,3,485,974.
Corn Products Company: *See—*
Armbruster, Frederick C.; and Kooi, Earl R., 3,425,910.
Bruner, Robert L.; and Rahmes, Donald W., 3,485,776.
Freeman, Jere E., 3,477,855.
Gibbons, John P.; and Wondolowski, Lawrence, 3,450,690.
Gramera, Robert E.; and Caimi, Ronald J., 3,459,731.
Gramera, Robert E.; and Le Roy, David H., 3,464,974.
Hack, Arthur W.; and Konigsdorf, Wolfgang, 3,480,447.
Hull, Glenn A.; Allen, Earle E., Jr.; and Parmerter, Stanley M., 3,459,732.
Idaszak, Leo R., 3,440,093.
Josefowicz, Edmund L.; Cooper, Irwin; and Melnick, Daniel, 3,457,086.
McElmury, Donald E.; and Fischer, August C., Jr., 3,487,033.
Melnick, Daniel; and Josefowicz, Edmund L., 3,472,661.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A., 3,426,011.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A., 3,453,257.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A., 3,453,258.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Le Roy, David H., 3,453,259.
Parmerter, Stanley M.; and Allen, Earle E., Jr., 3,453,260.
Roberts, Hugh J., 3,453,262.
Saenz, William, 3,486,910.
Schoch, Thomas J.; Stella, Donald F.; and Wolfmeyer, Howard J., 3,446,628.
Thompson, Alfred R., Jr.; and Foley, William H., 3,480,573.
Walon, Raoul G. P., 3,475,216.
Watson, Stanley A.; and Stewart, Charles W., 3,474,722.
Wells, Phillip R.; and Melnick, Daniel, 3,477,858.
Wilkinson, Ralph L.; and Ciesla, Stanley F., 3,472,671.
Cornberg, Heinz, to Erie Foundry Company. Continuous extrusion machine. 3,461,515, 8-19-69, Cl. 25-15.
Cornea, Andrei: *See—*
Segarceanu, Tudor; Cornea, Andrei; and Mercea, Viorica,3,462,352.
Corneil, Ernest R. Fluid pump with controlled variable flow. 3,427,986, 2-18-69, Cl. 103-149.
Corneil, Ernest R. Peristaltic fluid pump. 3,433,171, 3-18-69, Cl. 103-149.
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S., to Texas Instruments, Incorporated. Gold alloy for attaching a lead to a semiconductor body. 3,434,828, 3-25-69, Cl. 75-165.
Cornelissen, Jan, to Shell Oil Company. Apparatus for the separation of viscous components from a liquid. 3,454,165, 7-8-69, Cl. 210-522.
Cornelius, Archie J.: *See—*
Gilchrist, Ralph E.; and Cornelius, Archie J.,3,455,384.
Cornelius, Archie J., to Phillips Petroleum Company. Avoiding casing damage during direct steam drive oil production. 3,420,298, 1-7-69, Cl. 166-11.
Cornelius, Archie J., to Phillips Petroleum Company. Thermal-operated valve. 3,456,722, 7-22-69, Cl. 166-64.
Cornelius, Archie J., to Phillips Petroleum Company. Oil production by gas drive from adjacent strata. 3,476,185, 11-4-69, Cl. 166-274.
Cornelius, Archie J.; and Klein, Frederick A., to Phillips Petroleum Company. Igniting an underground formation. 3,457,995, 7-29-69, Cl. 166-260.
Cornelius Company, The: *See—*
Austin, Forrest L.; and Cornelius, Richard T., 3,482,989.
Cornelius, Richard T.; and Snyder, Irving F., 3,435,985.
Cornelius, Richard T., 3,448,769.
Cornelius, Richard T., 3,452,902.
Cornelius, Richard T., 3,452,903.
Cornelius, Richard T., 3,455,332.
Cornelius, Richard T., 3,456,344.
Cornelius, Richard T., 3,456,833.
Cornelius, Richard T., 3,460,713.
Cornelius, Richard T., 3,469,415.
Cornelius, Richard T., 3,476,395.
Cornelius, Richard T., 3,478,929.
Dufresne, Harold E., 3,482,591.
Cornelius, Edward B.; McEvoy, James E.; and Mills, George Alexander, to Air Products and Chemicals, Inc. Cracking catalyst comprising aluminum zeolite. 3,455,842, 7-15-69, Cl. 252-455.
Cornelius, Gail, to Wade, R. M., & Co. Latch for irrigating pipe coupler. 3,439,939, 4-22-69, Cl. 285-6.
Cornelius, Richard T.: *See—*
Austin, Forrest L.; and Cornelius, Richard T.,3,482,989.
Cornelius, Richard T., to Cornelius Company, The. Post-mix valve having plural independent actuators. 3,448,769, 6-10-69, Cl. 137-607.
Cornelius, Richard T., to Cornelius Company, The. Pressurized liquid dispensing device. 3,452,902, 7-1-69, Cl. 222-61.
Cornelius, Richard T., to Cornelius Company, The. Home-type beverage dispenser. 3,452,903, 7-1-69, Cl. 222-108.
Cornelius, Richard T., to Cornelius Company, The. Post-mix valve. 3,455,332, 7-15-69, Cl. 137-604.
Cornelius, Richard T., to Cornelius Company, The. Plural drinking straws integrally connected functioning as a stick-like spoon. 3,456,344, 7-22-69, Cl. 30-141.
Cornelius, Richard T., to Cornelius Company, The. Cabinet construction. 3,456,833, 7-22-69, Cl. 220-9.

Cornelius, Richard T., to Cornelius Company, The. Method of dispensing a refrigerated beverage. 3,460,713, 8-12-69, Cl. 222-1.
Cornelius, Richard T., to Cornelius Company, The. Heat exchanger for a beverage dispensing machine. 3,469,415, 9-30-69, Cl. 62-394.
Cornelius, Richard T., to Cornelius Company, The. Shaft seal assembly. 3,476,395, 11-4-69, Cl. 277-35.
Cornelius, Richard T., to Cornelius Company, The. Means for decarbonating and dispensing a beverage. 3,478,929, 11-18-69, Cl. 222-129.1
Cornelius, Richard T.; and Snyder, Irving F., to Cornelius Company, The. Cup dispensing device. 3,435,985, 4-1-69, Cl. 221-194.
Cornelius, Victor W. Multi-seal press. 3,476,632, 11-4-69, Cl. 156-366.
Cornell Aeronautical Laboratory, Inc.: *See—*
Gilmour, Alexander S., Jr., 3,437,260.
Hertzberg, Abraham; and Hurle, Ian R., 3,487,333.
Joseph, Phillip John, 3,444,500.
Kinzly, Robert E., 3,487,227.
Mizen, Neil J., 3,449,769.
Robinson, Thomas L., 3,433,677.
Weatherston, Roger C., 3,430,847.
Weatherston, Roger C., 3,438,569.
Weatherston, Roger C., 3,484,823.
Cornell, Dudley E., III; and Evans, James L. Filing device. 3,480,150, 11-25-69, Cl. 211-11.
Cornell, Dudley E., III; and O'Connell, Robert A., to Teaching Machines, Inc. Multiple choice teaching device. 3,477,142, 11-11-69, Cl. 35-9.
Cornell, Henry William: *See—*
Starer, Ira; and Cornell, Henry William,3,459,689.
Cornell, John A., to Sartomer Resins Inc. Impact resistant, alkali-washed mixed butadiene- styrene and methyl methacrylate molding composition. 3,427,274, 2-11-69, Cl. 260-31.8
Cornell, John A., to Sartomer Resins, Inc. Method of molding decorative, veined, translucent, rigid plate. 3,431,330, 3-4-69, Cl. 264-17.
Cornell, John A.: *See—*
Petner, Eugene J.; Baumann, Erwin; and Cornell, John A.,3,471,596.
Cornell, John H., Jr., to Monsanto Research Corporation. Tris(arylazoaryl)-s-triazine 2,4,6(1H,3H,5H) trione and trithione as toxicants. 3,437,729, 4-8-69, Cl. 424-226.
Cornell, Peter V. B., to Speed Selector Inc. Sliding motor base. 3,421,724, 1-14-69, Cl. 248-23.
Cornell Research Foundation, Inc.: *See—*
Baker, James A., 3,465,077.
Barnes, William A.; and Redo, Saverio F., 3,487,150.
Cornell, Richard, and Associates: *See—*
Cornell, Richard R., 3,456,701.
Cornell, Richard R., to Cornell, Richard, and Associates, mesne. Method for grooving laminar sheet material. 3,456,701, 7-22-69, Cl. 144-316.
Cornell, William D.: *See—*
Baldwin, Bradford J.; Cornell, William D.; Hoffman, Paul R.; and Russell, Jack A.,3,469,905.
Cornell, William D., to Brunswick Corporation. Coding of bowling balls. 3,447,804, 6-3-69, Cl. 273-54.
Cornell, William D., to Brunswick Corporation. pin detection system. 3,459,424, 8-5-69, Cl. 273-52.
Cornell, William D., to Brunswick Corporation. Golf game apparatus. 3,469,454, 9-30-69, Cl. 73-432.
Cornell, William D.; Disney, Morton F., Jr.; and Hoffman, Paul R., to Brunswick Corporation. Automatic bowling scorer. 3,435,120, 3-25-69, Cl. 273-54.
Cornell, William D.; and Uecker, Donald F., to Brunswick Corporation. Strand type target having realigning means. 3,420,524, 1-7-69, Cl. 273-105.1
Hoffman, Paul R.; Disney, Morton F., Jr.; Norgren, Edwin A.; and Cornell, William D.,3,484,107.
Cornell-Dubilier Electric Corporation: *See—*
Garstang, William W.; and Nordquist, Lawrence E., 3,443,251.
Robinson, William M., 3,454,858.
Robinson, William M., 3,483,448.
Sauber, Charles R., 3,483,395.
Underwood, George C., 3,479,627.
Cornell-Hoskinson Mfg. Corp.: *See—*
Hoskinson, Gordon Hillis, 3,428,198.
Cornelsen, Wayman H. Clothes bar. 3,424,314, 1-28-69, Cl. 211-105.3
Cornely, Kurt W.: *See—*
Keith, Carl D.; and Cornely, Kurt W.,3,429,660.
Cornely, Roy H.; and Kosonocky, Walter F., to RCA Corporation. Constant-gain low-noise light amplifier. 3,467,906, 9-16-69, Cl. 330-4.3
Corneoot, Peter Frank: *See—*
Warwicker, Peter Griggs; and Corneoot, Peter Frank,3,481,272.
Cornet, Andre. Pistons. 3,452,649, 7-1-69, Cl. 92-232.
Cornetet, Wendell H., Jr.: *See—*
Evans, Howard J.; and Cornetet, Wendell H., Jr.,3,460,031.
Cornett, William D., Jr. Solids spreader for agricultural aircraft. 3,476,337, 11-4-69, Cl. 244-136.
Cornforth, David Arthur; Waddan, Dhafir Yusuf; and Williams, Derek, to Imperial Chemical Industries Limited. Dimerisation and hydrodimerisation of α,β- olefinically unsaturated compounds. 3,484,475, 12-16-69, Cl. 260-465.8
Cornforth, John W., to Shell Oil Company. Methylenation method. 3,436,403, 4-1-69, Cl. 260-327.
Cornforth, Malcolm W.: *See—*
Grace, Edward J.; and Cornforth, Malcolm W.,3,454,037.
Cornier, Jean-Claude: *See—*
Barnabe, Jean-Louis; Callies, Dominique; and Cornier, Jean-Claude,3,421,628.
Corning Glass Works: *See—*
Adler, Meryle D. W.; Halderman, Joseph, Jr.; and Pauls, Lawrence A., 3,469,503.
Adler, Meryle D.W.; and Pauls, Lawrence A., 3,471,279.
Allen, Richard E., 3,440,069.
Allen, Richard E., 3,449,100.
Allen, Richard E., 3,480,421.
Allen, Richard E., 3,486,879.
Alper, Allen M., 3,433,471.
Amos, Lynn G., 3,441,250.
Amos, Lynn G.; and Langley, Lawrence W., 3,469,752.
Andrews, Paul W.; and Peters, Forrest I., 3,472,803.
Andrysick, Chester A., 3,436,202.
Asher, John W.; and Claypoole, Stewart A., 3,437,736.
Bally, Alexander O., 3,419,937.
Bellman, Robert H.; and Bermel, Thomas W., 3,433,408.
Bellman, Robert H.; and Bermel, Thomas W., 3,461,898.
Bellman, Robert H., 3,473,546.
Bennett, Robert W.; Blanding, Wendell S.; and Hausher, Lawrence B., 3,473,909.
Bermel, Thomas W., 3,480,030.
Best, Howard S.; and Bowser, Robert Emery, 3,425,166.
Best, Howard S.; Gibbs, Paul F.; and Mosely, Graham Hartwell, 3,467,004.
Boettner, George B., 3,420,653.
Boettner, George B., 3,457,059.
Bognar, Lewis L., 3,454,298.
Bognar, Lewis L., 3,484,225.
Bonin, George E., 3,456,399.
Borrelli, Nicholas F.; Herczog, Andrew; and Maurer, Robert D., 3,467,463.
Brouneus, Harold A.; and Sprague, Lloyd G., 3,448,245.
Brown, Wayne R.; Cawley, Terence J.; and Van Tilburg, Robert W., 3,429,324.
Cawley, Terence J., 3,428,065.
Claypoole, Stewart A.; and Mertsoc, Martin M., 3,439,395.
Connelly, John H.; and Hares, George B., 3,464,932.
Currin, Cedric G.; Herczog, Andrew; and Settzo, Robert J., 3,474,304.
Curtis, John G., 3,468,011.
Dalton Robert H., 3,445,256.
Dates, Harold F., 3,473,944.
Dates, Harold F.; and Eaton, James J., 3,484,284.
Dhanda, Rajat, 3,467,236.
Dieman, Wendell R.; Lambden, Richard L.; and Pickles, Arnold, 3,449,105.
Dockerty, Stuart M., 3,433,613.
Dockerty, Stuart M., 3,467,513.
Eichelberger, William E., 3,440,873.
Eisenman, George, 3,450,604.
Elmer, Thomas H.; and Nordberg, Martin E., 3,459,522.
Filbert, Augustus M.; and Hair, Michael L., 3,453,806.
Filbert, Augustus M.; and Hair, Michael L., 3,456,427.
Freiman, David J., 3,467,252.
Garfinkel, Harmon M.; and Lindenthal, James R., 3,425,816.
Gladwell, Robert T., Jr., 3,486,496.
Goddard, Stanley; and Smith, Norman A., 3,471,280.
Grego, Peter; and Howell, Robert G., 3,429,742.
Guyer, Edwin M., 3,445,616.
Hair, Michael L., 3,420,645.
Hampikian, Aram K.; and Biddy, Oscar D., Jr., 3,460,003.
Harrington, Roy V., 3,485,647.
Herbert, Normand C., 3,459,641.
Herczog, Andrew; and Rice, Dale W., 3,485,613.
Hertl, William, 3,437,443.
Hertl, William, 3,447,952.
Howitt, John S., 3,473,997.
Kalocsai, Bela O.; and Wrench, Robert F., 3,436,865.
Kelm, Everett F., 3,471,680.
Kenny, Neal S.; Warden, Douglas A.; and Sapakie, Alan Louis, 3,480,372.
Knapp, Eugene J., 3,452,124.
Kolb, Kenneth E.; and Schreiber, Charles L., 3,471,356.
Lachman, Irwin M., 3,459,564.
Langley, Lawrence W., 3,425,432.
Langley, Lawrence W., 3,485,033.
Lawless, William N., 3,436,924.

Lewis, Edmond S., Jr., 3,420,649.
Loose, Guenter H., 3,436,109.
Loose, Guenter H., 3,473,927.
Ludovici, Bruno F.; and Megla, Gerhard K., 3,431,048.
MacDowell, John F., 3,445,252.
MacDowell, John F., 3,467,534.
Manley, John C., 3,452,432.
Martin, Francis W., 3,420,685.
Martin, Francis W.; and Smith, William C., 3,424,568.
Martin, Francis W., 3,486,871.
McCartney, John S., 3,447,857.
McIver, Chandler H.; Siegel, Sidney R.; and White, William W., Jr., 3,470,611.
McLeod, Paul C., Jr., 3,444,879.
Megla, Gerhard K.; and Ludovici, Bruno F., 3,428,396.
Megles, John E., 3,445,316.
Miller, Irving C., 3,453,711.
Mochel, Ellen L., 3,451,796.
Mochel, Ellen L., 3,485,702.
Norby, Thomas E., 3,486,951.
Olson, Peter A., 3,423,196.
Overman, Kenneth T., 3,437,470.
Peterson, Gerald D.; and Schaffer, Harry J., 3,459,527.
Piroutek, Miroslav J., 3,447,676.
Pratt, Gerald J., 3,421,003.
Ross, James W., 3,429,785.
Ross, James W., 3,445,365.
Rostoker, David, 3,471,307.
Settzo, Robert J.; and Wise, Warren M., 3,448,032.
Sheng, Henry P.; and Wooten, Frank Thomas, 3,473,510.
Simmons, Eugene C., 3,469,789.
Simon, Raphael A., 3,451,798.
Smith, Ward C.; and Souza, Raymond L., 3,485,740.
Spiegler, John, 3,437,974.
Sprague, Lloyd G., 3,440,720.
Stein, John C., 3,473,911.
Steinberg, David R., 3,427,881.
Steinberg, David R., 3,470,743.
Stong, Guy E., 3,450,546.
Stookey, Stanley D., 3,449,103.
Szupillo, Raymond E., 3,474,305.
Trounce, Richard E., 3,470,997.
Uimari, David C.; and Jackson, Kerry A., 3,445,684.
Uimari, David C., 3,471,713.
Wardale, David J. S., 3,430,687.
Whitney, Earl J., 3,445,024.
Wiley, Robert F., 3,434,821.
Wiley, Robert F., 3,469,602.
Wilson, Richmond W., 3,473,907.
Wooten, Frank T., III, 3,453,887.
Wrench, Robert F., 3,440,907.

Cornish, Arthur H.: *See—*
Pinto, Anthony; Cornish, Arthur H.; Leonard, Eugene; Wolf, Edgar; and Lau, Edward H.,3,441,713.

Cornish, Cornell D., to United States of America, Atomic Energy Commission. Stellarator having multipole magnets. 3,433,705, 3-18-69, Cl. 176-3.

Cornish, Eric Haydn, to International Standard Electric Corporation. Process for producing polyvinyl carbazole. 3,445,439, 5-20-69, Cl. 260-88.3

Cornish, Joseph J., III, to Lockheed Aircraft Corporation. Method and apparatus for modifying airfoil fluid flow. 3,480,234, 11-25-69, Cl. 244-40.

Cornish, Judson E. Teaching cabinet. 3,462,855, 8-26-69, Cl. 35-60.

Cornish, Rodney H.; and Finlayson, Lawrence A., to IIT Research Institute. Reaction frame for restraining high loads. 3,476,281, 11-4-69, Cl. 220-3.

Cornu, Maurice; and Khau Van Kien, Louis, to Commissariat a l'Energie Atomique. Apparatus for the deposition of a sensitive emulsion for autoradiographs. 3,442,250, 5-6-69, Cl. 118-7.

Cornwell, Alexander M., Jr., to Jackes-Evans Manufacturing Company. Means for preventing swinging of padlocks. 3,482,422, 12-9-69, Cl. 70-78.

Cornwell, Edmund H.; and Foster, Herbert G., Jr., to Swift & Company. Process for reducing the moisture content of cheese. 3,482,999, 12-9-69, Cl. 99-115.

Cornwell, Edmund H.: *See—*
Richardson, Gary H.; and Cornwell, Edmund H.,3,482,507.

Cornwell, Robert, Jr.; and Fields, John G., to Western Electric Company, Incorporated. Peak detection system for arbitrary portions of repetitive pulses. 3,437,927, 4-8-69, Cl. 324-102.

Coro, Inc.: *See—*
Feibelman, Hans J., 3,424,313.

Coroller, Pierre, to Societe d'Etudes et de Recherches Magnetiques (Sermag). Permanent magnet alternator with multiple rotor. 3,459,980, 8-5-69, Cl. 310-114.

Corompt, Antoine, to Etablissements Bennes Marrel. Apparatus for handling and transport of heavy bulky containers. 3,467,268, 9-16-69, Cl. 214-505.

Corompt, Antoine, to Etablissements Bennes Marrel. Hooking device for lifting a container from the ground onto a lorry. 3,472,407, 10-14-69, Cl. 214-505.

Corona Kogyo Kabushiki Kaisha,: *See—*
Matsumoto, Masato; Samejima, Yukihide; and Watanabe, Kazunari, 3,426,162.

Corp, Robert S.: *See—*
Crowe, Byron A.; and Corp, Robert S.,3,453,928.

Corpew, Charles Robert, to Stromberg-Carlson Corporation. Shaped beam cathode ray tube. 3,473,077, 10-14-69, Cl. 315-18.

Corpew, Charles R., to Stromberg-Carlson Corporation. Cathode-ray tube control circuitry. 3,421,047, 1-7-69, Cl. 315-30.

Corporation Constructions Mills-K: *See—*
Mary, Dominique; and Bussienne, Christian, 3,458,060.

Corporation Realisations Ultrasoniques: *See—*
Dory, Jacques, 3,454,922.

Corr, Albert J.: *See—*
Dunn, Alexander; Livingston, George Turner; and Corr, Albert J.,3,466,429.

Corradi, Demetrio; and Pasin, Alberto, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Apparatus for the industrial production of spinnable acrylonitrile-based polymers. 3,463,616, 8-26-69, Cl. 23-263.

Corral, Joseph S.; and Krantz, Donald E., to North American Rockwell Corporation. Explosive forming method and means. 3,423,977, 1-28-69, Cl. 72-56.

Corral, Joseph S.; and Krantz, Donald E., to North American Rockwell Corporation. Progressive deformation method and means using tubular blanks. 3,474,649, 10-28-69, Cl. 72-56.

Corraz, Alfred John: *See—*
Berger, Leo; and Corraz, Alfred John,3,484,449.

Correll, Harold E.: *See—*
Nahodil, Robert S.; and Correll, Harold E.,3,422,705.

Correll, Quentin E.: *See—*
Bernier, Donald R.; and Correll, Quentin E.,3,423,735.

Corren, Sidney A. Miniature initiator for electroexploding device. 3,429,260, 2-25-69, Cl. 102-28.

Corren, Sidney A.; and Coler, Myron A. Exploding fuse. 3,426,682, 2-11-69, Cl. 102-28.

Corren, Sidney A.; and Coler, Myron A. Method of making an electrical initiator. 3,449,999, 6-17-69, Cl. 86-1.

Corridon, Juliana M. Tote bag. 3,483,907, 12-16-69, Cl. 150-1.7

Corrigall, James Stephen; Waterman, Raymond R.; and Deal, Kenneth M., to Vanderbilt, R. T., Company, Inc. Method of making strap material. 3,424,633, 1-28-69, Cl. 156-79.

Corrigan, Charles E., to General Electric Company. Sealing means for turbomachinery. 3,423,070, 1-21-69, Cl. 253-77.

Corrigan, James D.; Bowers, Lester T.; Gilmour, Richard C.; and Wolff, Robert A., to Budd Company, The. Method of making composite panels by electric-arc braze-welding. 3,436,521, 4-1-69, Cl. 219-129.

Corrigan, Robert E.: *See—*
Luxton, Dean H., 3,461,571.

Corrinet, Andrew Lucien, to American Can Company. Method of and instrumentalities for applying plastic closures to container bodies. 3,420,927, 1-7-69, Cl. 264-249.

Corrodi, Hans Rudolf: *See—*
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar,3,466,325.
Brandstrom, Arne Elof; Corrodi, Hans Rudolf; and Ablad, Bengt Arne Hjalmar,3,466,376.

Corrodi, Hans Rudolf; and Carlsson, Per Arvid Emil, to Aktiebolaget Hassle, Apotekare Paul Nordstroms Fabriker. 2,3-Dihydroxyphenylalkanamides. 3,422,140, 1-14-69, Cl. 260-559.

Corrodi, Hans Rudolf; and Carlsson, Per Arvid Emil, to Aktiebolaget Hassle, Apotekare Paul Nordstroms Fabriker. 3,4-Dihydroxyphenylalkanamides. 3,422,141, 1-14-69, Cl. 260-559.

Corrsin, Lester. Electrolytic mercury coulometer including a slotted tube for containing mercury. 3,464,009, 8-26-69, Cl. 324-93.

Corrsin, Lester, to U.S. Plywood-Champion Papers Inc. Heat sealed thermoplastic package. 3,477,194, 11-11-69, Cl. 53-33.

Corrugated Container Company, The: *See—*
Conners, John P.; and Davis, Samuel B., 3,430,824.
Schieser, Warren J., 3,421,283.

Corry, Thomas M.; and Spix, George J., to General Motors Corporation. Rectifier-inverter motor power supply. 3,430,123, 2-25-69, Cl. 318-227.

Corsepius, Horst: *See—*
Bende, Friedrich; Corsepius, Horst; and Hansel, Werner,3,478,102.
Gey, Werner; Philipp, Wolfgang; Dittrich, Ewald; Corsepius, Horst; and Bonders, Peter,3,451,900.
Hofmann, Hansdieter; Corsepius, Horst; and Kyber, Manfred,3,485,820.

Corsepius, Horst; and Bende, Friedrich, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Process for the production of adiponitrile. 3,481,969, 12-2-69, Cl. 260-465.2

Corsette, Douglas F., to Diamond International Corporation. Liquid and paste dispenser. 3,420,413, 1-7-69, Cl. 222-107.

Corsette, Douglas F., to Diamond International Corporation. Liquid dispenser having a closure cap. 3,439,843, 4-22-69, Cl. 222-212.
Corsette, Douglas F., to Diamond International Corporation. Aspirating type fluid dispenser. 3,469,744, 9-30-69, Cl. 222-193.
Corsi, Gianfranco: *See—*
Luciani, Luciano; and Corsi, Gianfranco,3,451,768.
Luciani, Luciano; and Corsi, Gianfranco,3,461,083.
Corsi, Giannino: *See—*
Zunino, Mario; Corsi, Giannino; and Sammartino, Francesco,3,425,350.
Corsmeir, Robert J.: *See—*
Koff, Bernard L.; Sterman, Albert P.; and Corsmeir, Robert J.,3,451,653.
Corso, Joseph J., to United Aircraft Corporation. Periodically grounded inertial navigator. 3,471,108, 10-7-69, Cl. 244-77.
Corson, Carl R., to RCA Corporation. Halftone image generator system. 3,463,880, 8-26-69, Cl. 178-7.2
Corson, Claude E., to Coachmen Industries, Inc. Fastening device for pick-up campers. 3,486,785, 12-30-69, Cl. 296-23.
Corson, G. & W.[H. Incorporated: *See—*
Meyers, William F., 3,423,191.
Corte, Herbert; and Heller, Harold, to Farbenfabriken Bayer Aktiengesellschaft. Cross-linked acrylate polymers. 3,427,262, 2-11-69, Cl. 260-2.2
Corte, Herbert; Netz, Otto; and Heller, Harold, to Farbenfabriken Bayer Aktiengesellschaft. Process for the chloromethylation and cross- linking of aromatic compounds of high molecular weight. 3,425,990, 2-4-69, Cl. 260-67.6
Corteggiano, William L.; and Lackey, Donald R., to Westinghouse Electric Corporation. Heat treating apparatus for hardening selective workpiece regions while protecting adjacent regions against hardening. 3,460,815, 8-12-69, Cl. 266-4.
Corti, Costante: *See—*
Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante,3,442,942.
Cortina West, Inc.: *See—*
Milbourne, Benjamin K., Sr., 3,485,287.
Cortland Industries, Inc.: *See—*
Chandler, James Leon, 3,453,769.
Cortz, Henry V., to PPG Industries, Inc., mesne. Process for manufacturing tetraorganolead compounds. 3,457,288, 7-22-69, Cl. 260-437.
Corum, Donald A., to Phillips Petroleum Company. Apparatus for educing and recovering oil from oil-bearing solids. 3,480,512, 11-25-69, Cl. 196-124.
Corvi-Mora, Camillo. Producing chronoactive pharmaceutical granules. 3,473,490, 10-21-69, Cl. 107-54.
Corwin, Earl L., to Tri-O Dynamics, Inc. Ozone generator for purifying a contaminated fluid system. 3,421,999, 1-14-69, Cl. 204-314.
Corwin, Frank R., to United Aircraft Corporation. Method of making microcircuit pattern masks. 3,476,658, 11-4-69, Cl. 204-11.
Corwin, Harry L., to Vernon Tool Co., Ltd. Mechanical joint and method of making same. 3,428,338, 2-18-69, Cl. 285-39.
Cory Corporation: *See—*
Eisendrath, David C., 3,422,745.
Eisendrath, David C., 3,476,137.
Karlen, Harvey R.; and Eisendrath, David C., 3,433,149.
Karlen, Harvey R., 3,444,803.
Karlen, Harvey R.; Wagner, Herbert E.; and Eisendrath, David C., 3,467,130.
Karlen, Harvey R., 3,470,897.
Stozek, Casimir J., 3,444,804.
Wagner, Herbert E.; and Karlen, Harvey R., 3,443,590.
Cory, William E.; and Schrader, Melvin A., to Sands Measurement Corporation, mesne. Weighing apparatus. 3,446,298, 5-27-69, Cl. 177-7.
Cosan Chemical Corporation: *See—*
Leebrick, John R., 3,437,716.
Weinberg, Elliott L., 3,426,055.
Cosby, Thomas L., to Seek, Incorporated. Rotary machine. 3,456,594, 7-22-69, Cl. 103-139.
Cosby, Wayne, 1/2 to Dunn, Fred H. Cassette holderith means for attachment in the bucky slot of an X-ray table. 3,444,368, 5-13-69, Cl. 250-58.
Cosci, Gino. Process for quantitatively measuring the color density of stained strips. 3,459,948, 8-5-69, Cl. 250-219.
Coscia, Anthony Thomas: *See—*
Ritson, Daniel Dickerson; Frazier, Charles; and Coscia, Anthony Thomas,3,438,794.
Coscia, Anthony Thomas, to American Cyanamid Company. Crystalline 2,2-alkylidene-bis (*p*-benzamide inclusion compounds. 3,426,068, 2-4-69, Cl. 260-558.
Coscia, Salvatore G., to De Kalb Industries, Inc. Atactic polyolefin release agents. 3,424,607, 1-28-69, Cl. 117-5.1
Cosden Oil & Chemical Company: *See—*
Hahn, Granville J., 3,484,262.
Cosentino, Louis S.; and Stewart, Wilber C., to RCA Corporation. Cryoelectric memories. 3,482,220, 12-2-69, Cl. 340-173.1
Cosenza, Frank J.: *See—*
Boyd, Thomas R.; Cosenza, Frank J.; and Yamamoto, Albert K.,3,477,333.
Cosgrove, Donald G.; Erwin, Le Roy E.; and Bielss, Eldon W., to General Dynamics Corporation. Method and apparatus for determining linearity characteristics of voltage read-out instruments utilizing an envelope series of pulses. 3,469,183, 9-23-69, Cl. 324-57.
Coshow, Chester L. Spinning reel depth-gauging means. 3,465,982, 9-9-69, Cl. 242-84.2
Cosier, James Edwin Henry: *See—*
Chapman, Keith James; and Cosier, James Edwin Henry,3,456,838.
Coslowsky, Marion M. Automatic snow melter. 3,484,961, 12-23-69, Cl. 37-14.
Cosmescu, Ctin: *See—*
Luca, Vasile; Runceanu, Gheorghe; Cosmescu, Ctin; and Ionescu, Alexandru,3,428,288.
Cosmocard, Limited: *See—*
Foot, George O., 3,424,466.
Cosmodyne Corporation, The: *See—*
Lightfoot, George James, 3,446,156.
Cosmodyne, Inc.: *See—*
Hendrix, Lloyd T., 3,486,848.
Cosnard, Jean Claude: *See—*
Trezain, Claude; and Cosnard, Jean Claude,3,423,165.
Trezsin, Claude; and Cosnard, Jean Claude,3,423,164.
Coss, Raymond L. Orthopedic traction appliance. 3,431,904, 3-11-69, Cl. 128-85.
Coss, Raymond L. Traction device. 3,461,864, 8-19-69, Cl. 128-85.
Coss, Ronald G., to Standard Pneumatic Motor Company. Control mechanism for power hand tools or instruments. 3,430,710, 3-4-69, Cl. 173-169.
Coss, Ronald G., to Standard Pneumatic Motor Company. Power transmitting mechanism for attachments for surgical turbines. 3,443,448, 5-13-69, Cl. 74-209.
Cossar, Bernard C.: *See—*
Burness, Donald M.; Kennard, Kenneth C.; and Cossar, Bernard C.,3,453,281.
Cossor, A. C., Limited: *See—*
Gay, Frank Munro, 3,477,880.
Gilbert, Frank Peter, 3,427,680.
Mehrtens, David H., 3,475,752.
Mehrtens, David Henry, 3,457,518.
Smith, Charles Arthur, 3,478,282.
Costa, Armando; and Cerutti, Giovanni, to Olivetti, Ing., C., & C. S.p.A. Bidirectional step by step feeding device for a record support, for example a punched tape. 3,435,692, 4-1-69, Cl. 74-125.5
Costa, Fulvio: *See—*
Brunner, Augusto J.; Costa, Fulvio; and Falcone, Luigi,3,481,821.
Costa, Philip J.: *See—*
Breitbarth, William W.; Carter, John W.; and Costa, Philip J.,3,454,101.
Costa, Philip J., to Caterpillar Tractor Company. High frequency rotary inductive coupling. 3,441,887, 4-29-69, Cl. 336-120.
Costa, Philip J., to Caterpillar Tractor Company. Brushless direction and speed sensing transducer. 3,445,697, 5-20-69, Cl. 310-68.
Costa, Roberto Maria; and Codignola, Franco, to Societa Italiana Resine S.p.A. Method of drawing polyacrylonitrile containing fibres. 3,449,485, 6-10-69, Cl. 264-182.
Costantini, Adelmo, to Lawler Automatic Controls, Inc. Valve assembly. 3,485,371, 12-23-69, Cl. 210-135.
Costanza, John R.: *See—*
Belohlav, Leo R.; and Costanza, John R.,3,444,136.
Belohlav, Leo R.; and Costanza, John R.,3,479,321.
Levine, Eli; and Costanza, John R.,3,423,352.
Levine, Eli; and Costanza, John R.,3,423,353.
Costanza, John R.; and Dunay, Michael, to Celanese Corporation. Sanitary products. 3,480,016, 11-25-69, Cl. 128-284.
Costanzo, Kathryn N. Animal deodorizing collar attachment. 3,477,409, 11-11-69, Cl. 119-106.
Costanzo, Nicholas Joseph, Jr., to Aluminum Plastic Products Corporation. Metal grating. 3,420,015, 1-7-69, Cl. 52-180.
Costanzo, Raphael Joseph. Sleeping bag and heater therefor. 3,427,431, 2-11-69, Cl. 219-212.
Costas, Nicholas J. Disposable coffee cartridge. 3,420,675, 1-7-69, Cl. 99-77.1
Coste, Henri Georges: *See—*
Fatosme, Albert Rene; and Coste, Henri Georges,3,465,487.
Costello, Alfred P. Package valve. 3,432,087, 3-11-69, Cl. 229-62.5
Costello, Bernard James, to Western Electric Company, Incorporated. Soldering with radiant energy. 3,457,386, 7-22-69, Cl. 219-85.
Costello, Bernard J., to Argus Engineering Company. Soldering apparatus. 3,469,061, 9-23-69, Cl. 219-85.
Costello, Christopher: *See—*
Jatul, Bernard; and Costello, Christopher,3,476,853.
Costello, Leonard C.; and Wiegmann, Karl H., to Hull Corporation. Vacuum dryer shelf temperature control. 3,461,953, 8-19-69, Cl. 165-12.
Costello, Richard J.: *See—*
Weibel, Joseph P., 3,443,066.

Costerousse, Germain: *See—*
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.
Costich, Verne R., to Spectra-Physics, Inc. Optical resonator apparatus. 3,487,230, 12-30-69, Cl. 307-88.3
Costin, Robert W., to Coach and Car Equipment Corporation. Assembly for vertical adjustment of seat cushion. 3,473,776, 10-21-69, Cl. 248-419.
Coston, Otis D. Electric power bypass system and connectors for reconversion of rural electric service systems. 3,422,281, 1-14-69, Cl. 307-147.
Cosyns, Jean; Derrien, Michel; and Le Page, Jean Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Catalytic hydrogenation of diolefins. 3,472,763, 10-14-69, Cl. 208-255.
Cosyns, Jean; and Le Page, Jean-Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for the selective hydrogenation of hydrocarbon mixtures. 3,471,400, 10-7-69, Cl. 208-255.
Cote, Charles E.: *See—*
Cressey, John R.; and Cote, Charles E.,3,437,874.
Cote, Jacques Francois: *See—*
Cooke, William Ernest; Smits, Paul; and Cote, Jacques Francois,3,471,375.
Cote, James A.; Ferrington, Thomas E.; and Gregorian, Razmic S., to Grace, W. R., & Co. Vinyl chloride polymer compositions. 3,463,765, 8-26-69, Cl. 260-85.5
Cote, Louis E., to General Dynamics Corporation. D. C. motor speed control system. 3,428,881, 2-18-69, Cl. 318-341.
Cote, Maurice F.: *See—*
Geddry, Bernard L.; Mehron, Martin E.; and Cote, Maurice F.,3,474,358.
Cote, Monique: *See—*
Baron, Clafford, 3,470,593.
Cote, Philip J. Air ejector type device. 3,444,584, 5-20-69, Cl. 15-344.
Cotc, Raymond A.: *See—*
Bailey, Ernest L.; Cote, Raymond A.; and Schrier, Bruce H.,3,447,672.
Cothery, Harry R. Windshicld removing tool. 3,448,517, 6-10-69, Cl. 30-140.
Cothran, Otis J. Electrolytic apparatus for removing metals from solutions. 3,450,622, 6-17-69, Cl. 204-234.
Cothran, Wade R., to Susquehanna Corporation, The. Inclinometer. 3,478,437, 11-18-69, Cl. 33-206.
Cothron, Lawson B. Combination latch and dead bolt lock. 3,451,704, 6-24-69, Cl. 292-198.
Cotin, Francis L.: *See—*
Cambou, Francis G.; and Cotin, Francis L.,3,446,958.
Cotney, James D., to General Motors Corporation. Workpiece transfer devicc. 3,473,676, 10-21-69, Cl. 214-8.5
Cotrupc, Demetrio P.; Wellman, William E.; and Burton, Paul E., to Esso Research and Engineering Company. Method for preparing dihydroisophorone. 3,446,850, 5-27-69, Cl. 260-586.
Cotta, Ernesto; Grein, Arpad; and Spalla, Celestino, to Societa Farmaceutici Italia. Microbiological process for preparing aminosidine. 3,454,469, 7-8-69, Cl. 195-80.
Cotta, Ezio D.; and Ford, Vernon E., to Polaroid Corporation. Exposure control apparatus. 3,468,237, 9-23-69, Cl. 95-63.
Cotta Ramusino, Francesco: *See—*
Galbarini, Maso; and Cotta Ramusino, Francesco,3,483,796.
Galbarini, Maso; and Cotta Ramusino,3,431,797.
Cottam, Ronald Geoffrey; and Topham, Alan Roger, to Imperial Chemical Industries Limited. Electro chemical apparatus. 3,464,911, 9-2-69, Cl. 204-220.
Cotten, Richard M. Pedal board for musical instrument. 3,433,881, 3-18-69, Cl. 84-1.17
Cotter, Howard E.; and Barth, Jay E. Center-feed spreader. 3,441,224, 4-29-69, Cl. 239-656.
Cotter, Howard E.; and Barth, Jay E. Mixer assembly for wide-path spreader of granular materials. 3,441,225, 4-29-69, Cl. 239-683.
Cotter, Mary Lou: *See—*
Eschinasi, Emile H.; and Cotter, Mary Lou,3,439,042.
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr., to Union Carbide Corporation. Polycarbonates of the bisphenol of dicyclopentadiene. 3,461,097, 8-12-69, Cl. 260-47.
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr., to Union Carbide Corporation. Polycarbonates of the bisphenol of cyclohexadiene. 3,461,098, 8-12-69, Cl. 260-47.
Cotter, William L.; and Reiss, Martin H., to Vandalarm Security Systems, Inc. Sound responsive intruder detection circuit. 3,471,846, 10-7-69, Cl. 340-258.
Cotterman, Robert W., to International Telephone and Telegraph Corporation. Detection of electromagnetic radiation from nuclear explosions. 3,467,826, 9-16-69, Cl. 250-83.3
Cottignies, Stanislas, to Commissariat a l'Energie Atomique. Device for detecting radioactive contamination of a surface. 3,428,808, 2-18-69, Cl. 250-83.6
Cottingham, Robert A., to Budd Company, The. Extruding molding compounds. 3,461,490, 8-19-69, Cl. 18-13.
Cottle, Victor Claude Herbert: *See—*
Hudson, Clifford Harold; Ashton, Thomas Richard; Cottle, Victor Claude Herbert; and Jackson, David,3,466,850.
Cotton de Bennetot,Michel M.; Lostis, Pierre J.; and Simon, Jacques F., to Centre National de la Recherche Scientifique. Device imparting a planetary motion to members enclosed in a controlled medium. 3,422,297, 1-14-69, Cl. 310-80.
Cotton Enterprises, Inc.: *See—*
Cox, Donald J.; 3,423,797.
Cotton, Ivan C.: *See—*
West, Ernest; Cotton, Ivan C.; Challenger, Frederick R.; and Cotton, Ivan C.,3,449,930.
West, Ernest; Cotton, Ivan C.; Challenger, Frederick R.; and Cotton, Ivan C.,3,449,930.
Cotton, James F.; and Heard, Maurice E., to West Point-Pepperell, Inc. Aldehyde fixation on polymeric material. 3,420,696, 1-7-69, Cl. 117--118
Cotton, Joseph Bernard; and Sanderson, Brenda, to Imperial Metal Industries (Kynoch) Limited. Method of electrically heating an aqueous electrolyte. 3,469,074, 9-23-69, Cl. 219-284.
Cotton Producers Institute: *See—*
Getchell, Nelson F.; and Hollies, Norman R. S., 3,472,606.
Smith, Leonard, 3,445,277.
Tovey, Henry, 3,434,794.
Tovey, Henry; Prahl, Helmut F.; and Hart, Frederick M., 3,434,870.
Cotton, Robert B., to All American Engineering Company. Device for paying out, retarding and retrieving line. 3,467,347, 9-16-69, Cl. 244-110.
Cotton Silk and Man-Made Fibres Research Association, The: *See—*
Head, Frank Samuel Henry; and Lund, Gerald, 3,431,306.
Cotton Silk and Man-Made Fibres Research Association: *See—*
Parish, Geoffrey James, 3,476,629.
Cotton, William, Limited: *See—*
Bentley, William; and Blood, Raymond, 3,434,305.
Cottrell, David Walter: *See—*
Bennett, Royston Henry; and Cottrell, David Walter,3,453,337.
Bennett, Royston Henry; and Cottrell, David Walter,3,453,338.
Cottrell, David Walter, to Imperial Smelting Corporation (N.S.C.) Limited. Alkali metal fluoride pellets. 3,472,789, 10-14-69, Cl. 252-441.
Cottrell, Harold L. Variable hydraulic transmission and control. 3,455,110, 7-15-69, Cl. 60-54.
Cottrell, James E., Jr.: *See—*
Ching, Wallace K. L.; Cottrell, James E., Jr.; Sherman, John D.; and Weinmann, Helmut T.,3,484,555.
Cottrez, Gerard: *See—*
Birard, Claude Auguste; and Cottrez, Gerard,3,483,555.
Cotts, Louis C. Electric duct heater. 3,440,400, 4-22-69, Cl. 219-367.
Couch, Claude R. Timber truss plate-fastener and system. 3,449,997, 6-17-69, Cl. 85-13.
Couch, Francis Hartley, to Broadbent, Thomas, & Sons Limited. Vibrating centrifuges. 3,459,308, 8-5-69, Cl. 210-370.
Couch Industries, Inc.: *See—*
Couch, Virgil R., Jr., 3,472,316.
Couch, Robert W.: *See—*
Mahlstedt, Henry; Dunn, James W.; Couch, Robert W.; and Seyb, Edgar J., Jr.,3,461,048.
Couch, Virgil R., Jr., 95% to Couch Industries, Inc., and 5% to Ray, Henry T. Layered heat exchanger with interlocking header plates. 3,472,316, 10-14-69, Cl. 165-153.
Couche, Raymond Arthur. Wool scouring process. 3,441,368, 4-29-69, Cl. 8-139.1
Coudray, Michel, to Societe Indatom. Nuclear reactor pressure vessel. 3,424,239, 1-28-69, Cl. 165-136.
Coudriet, Raymond T., to Chrysler Corporation. Engine coolant flow control valve. 3,485,448, 12-23-69, Cl. 236-34.
Couey, Neal B. Car theft prevention apparatus. 3,443,546, 5-13-69, Cl. 116-81.
Couget, Jacques. Window wiper for motor vehicles. 3,448,480, 6-10-69, Cl. 15-250.
Cougoule, Robert L., to Litton Precision Products, Inc. Microwave oven. 3,430,022, 2-25-69, Cl. 219-10.55
Cougoule, Robert L., to Litton Precision Products, Inc. Microwave oven having a mode stirrer located within the waveguide. 3,439,143, 4-15-69, Cl. 219-10.55
Couick, John W.: *See—*
Oatfield, John C.; Davis, Samuel J.; and Couick, John W.,3,457,602.
Couillais, Yvan A., to MacLean-Fogg Lock Nut Co. Sectional feed wire. 3,422,944, 1-21-69, Cl. 193-1.
Couillaud, Andre: *See—*
Larde, Raymond; and Couillaud, Andre,3,446,746.
Larde, Raymond; and Couillaud, Andre,3,474,086.
Coulcur, John F.: *See—*
Bahrs, David L.; and Couleur, John F.,3,479,649.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,425,039.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,931.

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A.,3,454,932.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W.,3,454,933.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,934.
Bahrs, David L.; Couleur, John F.; Ruth, Richard L.; and Shelly, William A.,3,483,525.
Cantrell, Harry N.; and Couleur, John F.,3,473,159.
Cohen, Robert; Couleur, John F.; and Ruth, Richard L.,3,479,647.
Cohen, Robert; Couleur, John F.; and Shelly, William A.,3,482,264.

Couleur, John F., to General Electric Company. Data processing system having variable character length. 3,483,526, 12-9-69, Cl. 340-172.5

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for executing commands by external apparatus. 3,471,834, 10-7-69, Cl. 340-172.5

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for providing sequential memory access and record thereof. 3,473,154, 10-14-69, Cl. 340--1725

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Apparatus providing access to storage device on priority-allocated basis. 3,473,155, 10-14-69, Cl. 340-172.5

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for providing sequential memory access and record thereof under control of external apparatus. 3,473,156, 10-14-69, Cl. 340-172.5

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for providing command selection by externals apparatus. 3,478,320, 11-11-69, Cl. 340-172.5

Couleur, John F.; and Ruth, Richard L., to General Electric Company. Data processing system including means for detecting illegal actions and generating codes in response thereto. 3,478,324, 11-11-69, Cl. 340-172.5

Coulman, William J. T., to Lubrizol Corporation, The. Method of and composition for preventing 'white rust' formation. 3,477,882, 11-11-69, Cl. 148-6.16

Coulombe, Lionel J., to Singer Company, The. Throat plate raising attachments for sewing machines. 3,440,987, 4-29-69, Cl. 112-260.

Coulombe, Lionel J., to Singer Company, The. Cam removing device for a sewing machine. 3,457,887, 7-29-69, Cl. 112-158.

Coulson, David F. Freight transportation equipment for railway cars. 3,486,467, 12-30-69, Cl. 105-368.

Coulson, Samuel Howard, to Geigy Chemical Corporation. Polypropylene of enhanced impact strength. 3,466,257, 9-9-69, Cl. 260-30.6

Coulter, Albert George; and English, Brian Box, to Ferranti, Limited. Character transmission and reproduction systems. 3,484,550, 12-16-69, Cl. 178-30.

Coulter, Albert L. Check valve. 3,457,949, 7-29-69, Cl. 137-543.21

Coulter, Albert W., Jr.; Copeland, Claude T.; and Kucera, Clare H., to Dow Chemical Company, The. Sand consolidation. 3,443,386, 5-13-69, Cl. 61-36.

Coulter, David C., to Melpar, Inc. Speech synthesizer having Q multiplier. 3,423,530, 1-21-69, Cl. 179-1.

Coulter, Earl E.; Johnson, Lowell E.; and Modrak, Thomas M., to Babcock & Wilcox Company, The. Vapor and liquid drum including cyclone separator. 3,435,598, 4-1-69, Cl. 55-424.

Coulter, Edward H.: *See*—
Thornhill, Philip G.; and Coulter, Edward H.,3,450,495.

Coulter Electronics, Inc.: *See*—
Bloomfield, Leo B.; Hogg, Walter R.; Coulter, Wallace H.; and Dorman, Ervin L., 3,473,010.
Coulter, Wallace H.; and Hogg, Walter R., 3,439,267.
Coulter, Wallace H.; and Hogg, Walter R., 3,444,463.
Coulter, Wallace H.; and Hogg, Walter R., 3,444,464.
Marchesini, Cesare; Hogg, Walter R.; and Klein, Robert I., 3,424,897.
Valley, Richard B.; and Morse, Theodore H., 3,441,848.

Coulter, Erle C., to Decar Plastic Corporation, mesne. Closet structure. 3,421,275, 1-14-69, Cl. 52-241.

Coulter, James Lee, to General Motors Corporation. Fluid flow control valve. 3,482,595, 12-9-69, Cl. 137-539.

Coulter, John Q.: *See*—
Reeves, Robert Bruce; and Coulter, John Q.,3,452,711.

Coulter, John S., to Iowa Paint Manufacturing Company, Incorporated. Storage stable coating composition comprising alkyd resin, esterified inorganic acid, and volatile buffer material. 3,445,410, 5-20-69, Cl. 260-21.

Coulter, Wallace H.: *See*—
Bloomfield, Leo B.; Hogg, Walter R.; Coulter, Wallace H.; and Dorman, Ervin L.,3,473,010.

Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Automatic hematocrit measuring apparatus. 3,439,267, 4-15-69, Cl. 324-71.

Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Particle analyzing apparatus and method utilizing multiple apertures. 3,444,463, 5-13-69, Cl. 324-71.

Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Multiple aperture fittings for particle analyzing apparatus. 3,444,464, 5-13-69, Cl. 324-71.

Council, Bill E.; and Woods, Warren W., to Continental Oil Company. Lubricant composition and method of using same. 3,438,896, 4-15-69, Cl. 252-12.

Council for Tobacco Research-U.S.A.: *See*—
Walton, Richard Rhodes, 3,476,119.

Council, Lemuel L., to Schlumberger Technology Corporation. Portable pipe-handling apparatus. 3,458,055, 7-29-69, Cl. 214-1.

Council of Scientific and Industrial Research: *See*—
Balain, Kanwal Singh; and Singh, Inderjeet, 3,426,727.
Chipalkatti, Vasant B.; Desai, Ramanlal M.; Sattur, Narayan B.; and Hussain, Iftikhar, 3,457,024.
Chipalkatti, Vasant Bhimrao; Desai, Ramanlal Markandrai; Sattur, Naranyan Balvantrao; and Husain, Iftikhar, 3,457,026.

Countess, Clem C., Jr.; and Rymsza, Daniel T., to E. W. Bliss Company. Movable bolster lowering arrangement. 3,422,660, 1-21-69, Cl. 72-448.

Countess Natalie, Inc.: *See*—
Belokin, Paul, Jr., 3,465,927.
Schwartz, Natalie Pels, 3,423,763.
Schwartz, Natalie Pels; Voller, Norman L.; Hamman, Denver C.; and Chapman, Robert E., 3,465,926.

Countryman, Albert J.; and Cogar, George R., to Mohawk Data Sciences Corporation. Printed circuit assembly apparatus. 3,426,415, 2-11-69, Cl. 29-203.

Counts, William E.; and Bruhl, Donald A., Jr., to Beckman Instruments, Inc. Cermet resistance element. 3,479,216, 11-18-69, Cl. 117-227.

County Commerical Cars Limited: *See*—
Davey, Joseph, 3,475,989.

Couper, John R., to FTS Corporation, mesne. Portable waste disposer. 3,452,368, 7-1-69, Cl. 4-142.

Couper, Monroe: *See*—
Spriestersbach, David Richard; Clarke, Ray Allen; Couper, Monroe; and Patterson, Hugh T.,3,473,998.

Coupette, Werner, to Standard-Messo Duisburg Gesellschaft fur Chemie- Technik mbH & Co. Apparatus for vacuum treating liquid steel according to the circulation method. 3,479,022, 11-18-69, Cl. 266-34.

Coupland, Keith, to Orobis Limited, mesne. Process for the production of overbased alkyl phenates suitable for use in lubricant additives. 3,437,595, 4-8-69, Cl. 252-42.7

Coupland, Ralph: *See*—
Page, Wilbur M.; and Coupland, Ralph,3,472,282.

Couquelet, Dieudonne Marie. Machine for the manufacture of glass hollow ware. 3,424,570, 1-28-69, Cl. 65-276.

Couquelet, Dieudonne-Marie, to Societe d'Etudes et de Participations Couquelet, en abrege SEPAC, Societe Anonyme. Apparatus for controlled heat softening of glass tubing. 3,462,255, 8-19-69, Cl. 65-158.

Cour, Thomas H. Manufacture of dimethylethanolamine. 3,429,925, 2-25-69, Cl. 260-584.

Cour, Thomas H.: *See*—
Lichtenwalter, Myrl; and Cour, Thomas H.,3,484,488.
Milligan, John G.; and Cour, Thomas H.,3,448,152.

Courbat, Pierre J., to Zyma S.A. Quercetin and quercetin glycoside. 3,420,815, 1-7-69, Cl. 260-210.

Courier Enterprises: *See*—
Hancock, Harold E., 3,471,096.
Trott, David H., 3,462,055.

Couris, Alexander. Drive assembly. 3,430,509, 3-4-69, Cl. 74-413.

Cournoyer, George R., to USM Corporation. Roll positioning mechanism. 3,479,951, 11-25-69, Cl. 100-170.

Cournoyer, George R.; and Hold, Peter, to Farrel Corporation. Driven controlled deflection roll. 3,481,016, 12-2-69, Cl. 29-116.

Cournoyer, Hector S., to Grooming Developers, Inc., mesne. Hair-styling tool. 3,481,345, 12-2-69, Cl. 132-145.

Cours, Donald V.; McGee, John K.; and Lafferty, Harold L., to Gray Tool Company. Pipe lining apparatus. 3,462,821, 8-26-69, Cl. 29-200.

Coursault, Roger, to Regie Nationale des Usines Renault. Devices for converting a passenger automobile into a utility vehicle. 3,479,079, 11-18-69, Cl. 296-26.

Court, Otto: *See*—
Schneider, Rudolf; Bottenbruch, Ludwig; Court, Otto; Damsky, Walter; Spott, Georg; and Lippert, Axel,3,427,003.

Court, Patrick R. J.: *See*—
Reiter, Abraham M.; and Court, Patrick R. J.,3,478,166.

Courtaulds Limited: *See*—
Ardron, Geoffrey, 3,471,909.
Baker, Bernard Stuart, 3,477,286.
Baker, Bernard Stuart, 3,482,320.
Baker, Bernard Stuart, 3,482,439.
Berridge, Francis James, 3,440,700.
Brealey, Graham John, 3,431,244.
Dixon, Olaf George; and Clewlow, Raymond Kevan, 3,452,410.
Furness, Vera I.; and Krzesinski, Boleslaw, 3,449,476.
Hawtin, Selwyn George; Smith, David Roger; and Field, Dennis Ronald, 3,477,218.
Marshall, Geoffrey; and Smith, Gordon Ernest, 3,470,139.
Robinson, Frank; and Chell, Frederick Nunnerley, 3,474,643.
Sayers, Leslie W., 3,430,314.
Strang, Alastair, 3,430,753.

Courte, Jacques, to Soletanche. Method for interconnecting successive sections of walls and partitions cast in the ground. 3,422,627, 1-21-69, Cl. 61-35.

Courter, Jack P., to Boeing Company, The. Cargo loading mechanism. 3,478,904, 11-18-69, Cl. 214-75.

Courter, Leo A., to Dow Chemical Company, The. Packer for well treatment. 3,436,084, 4-1-69, Cl. 277-116.2

Courtier, Armand Jean, to Produits Chimiques Pechiney-Saint-Gobain. Procedure for the preparation of olefin oxides. 3,455,797, 7-15-69, Cl. 204-80.

Courtney, Donald L., to Atlas Chemical Industries, Inc. Hair grooming aid. 3,458,624, 7-29-69, Cl. 424-71.

Courtney-Pratt, Jeofry S.; and Hargrove, Logan E., to Bell Telephone Laboratories, Incorporated. Optical information transmission system. 3,435,230, 3-25-69, Cl. 250-199.

Courtois, Peter D.; and Ericksson, George J., to Superior Concrete Accessories, Inc. Anchor insert and pick-up unit therefor. 3,420,014, 1-7-69, Cl. 52-173.

Courtois, Peter D.; and Eriksson, George J., to Superior Concrete Accessories, Inc. Anchor insert and pickup unit for a concrete slab. 3,431,012, 3-4-69, Cl. 294-86.

Courtot, Louis B.; and Gibson, Willard C., to Textron Inc., mesne. Lock type excess flow valve. 3,469,605, 9-30-69, Cl. 137-630.

Courtot, Louis B.; Jeromsom, James R., Jr.; and Morse, Philip W., to Weatherhead Company, The. Hose coupling having clamp positioning means. 3,463,517, 8-26-69, Cl. 285-93.

Courtot, Louis B.; and Mack, Thomas J., to Weatherhead Company, The. Composite forged fitting of diverse metals. 3,442,537, 5-6-69, Cl. 285-174.

Courtot, Pierre Albert, to Centre Technique des Industries de la Fonderie. Thermostatically controlled governor valves. 3,448,922, 6-10-69, Cl. 236-93.

Courvoisier, Pierre; and Lambert, Irma, to Commissariat a l'Ergie Atomique.Process of isotopic enrichment by bithermal exchange NH_3-H_2. 3,464,789, 9-2-69, Cl. 23-193.

Cousar, James F., to Dow Chemical Company, The. Multiple compartmented container. 3,459,295, 8-5-69, Cl. 206-47.

Cousin, Maurice; Klein, Robert; Loiselet, Yves; and Sonet, Gilbert, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). High speed protective circuit for regulating transistors. 3,456,125, 7-15-69, Cl. 307-202.

Cousin, Michel: *See*—
Brion, Jacques; Cousin, Michel; Talejkinski, Wulf; and Volk, Andre,3,479,800.

Cousin, Philippe; and Roche, Rene, to Commissariat a l'Energie Atomique. Method and apparatus for the physical separation of the components of a binary mixture. 3,425,812, 2-4-69, Cl. 23-326.

Cousino, Ralph E., to Orrtronics, Inc. Endless magnetic tape cartridge. 3,420,461, 1-7-69, Cl. 242-55.19

Cousino, Ralph E., to Orrtronics, Inc. Tape cartridge. 3,420,463, 1-7-69, Cl. 242-55.19

Cousins, Richard C.: *See*—
Bunch, Russell W.; and Cousins, Richard C.,3,447,222.

Cousins, Richard C.; Cooley, Eugene A.; Worstell, Wayne C.; and Eaton, James L., to Albina Engine and Machine Works, Inc. Positionable vehicle. 3,424,272, 1-28-69, Cl. 182-16.

Cousserans, Gilbert: *See*—
Pomot, Jean; Amanrich, Robert; and Cousserans, Gilbert,3,458,508.

Cousserans, Gilbert; and Amanrich, Robert, to Office National Industriel de L'Azote. Extraction of wet process phosphoric acid using organic sulfoxides. 3,438,746, 4-15-69, Cl. 23-312.

Cousteau, Jacques Yves; and Gagnan, Emile, to La Spirotechnique. Device for discharging the gases exhaled by the wearer of a respiratory apparatus. 3,480,011, 11-25-69, Cl. 128-142.2

Coutant, Andre; and Mathot, Jacques, to Eclair International, Societe Anonyme. Film moving mechanism of motion-picture apparatus. 3,434,640, 3-25-69, Cl. 226-57.

Coutant, Robert W., to United States of America, Air Force. Preparation of triphenyl (biphenylyl) silanes. 3,465,017, 9-2-69, Cl. 260-448.2

Coutilish, George P., to General Motors Corporation. Toggle clamp. 3,480,271, 11-25-69, Cl. 269-228.

Couturier, Georges; and Gauthier, Charles, to Crylor. Apparatus for the layering of tow. 3,423,807, 1-28-69, Cl. 28-21.

Couvreur, Michel Joseph. Logic adaptive process and system for the automatic control of the production of power in interconnected electric networks. 3,465,164, 9-2-69, Cl. 307-57.

Coval, Robert A.; and Schade, Charles W., to General Motors Corporation. Batteries of electrochemical cells containing electrolyte metering tubes. 3,421,996, 1-14-69, Cl. 204-255.

Coveney, Howard W. Cosmetic fingernail mask assembly. 3,461,885, 8-19-69, Cl. 132-88.5

Coventry Gauge & Tool Company Limited: *See*—
Davidson, John Bruce, 3,444,971.
Davidson, John Bruce, 3,484,816.

Cover, James A., to Harsco Corporation. Tailgate apparatus. 3,440,764, 4-29-69, Cl. 49-280.

Cover, Ralph. Washing and screening apparatus. 3,454,162, 7-8-69, Cl. 209-269.

Cover, Ralph; and Kemper, Clyde A., to United Company, The. Can shaking device. 3,427,004, 2-11-69, Cl. 259-59.

Coverstone, Stephen L.; and Hughes, Raymond K. Sewn closure square bottom bag. 3,473,724, 10-21-69, Cl. 229-58.

Covert, Eugene E., to Hercules Incorporated. Apparatus for regulating the power output of an MHD generator. 3,482,123, 12-2-69, Cl. 310-11.

Covert, Paul W., to Magnetics, Inc. Direct current measurement apparatus. 3,430,142, 2-25-69, Cl. 324-117.

Covert, Thomas H., to Aerojet-General Corporation. Method and apparatus for simultaneous testing of containers for ability to withstand internal pressurization and for fluid leakage. 3,465,572, 9-9-69, Cl. 73-49.2

Covertine, Frank: *See*—
Freed, Arnold; and Covertine, Frank,3,435,994.

Covey, Ivan. Portable cooking and heating device. 3,478,734, 11-18-69, Cl. 126-44.

Covey, Rupert A.; Smith, Allen E.; and Hubbard, Winchester L., to Uniroyal, Inc. Method of protecting plants with sulfurous acid organic esters. 3,463,859, 8-26-69, Cl. 424-303.

Covey, Rupert A.: *See*—
von Schmeling, Bogislav; and Covey, Rupert A.,3,428,734.

Coviello, Gino J., to Sylvania Electric Products, Inc. Suppression of strong interfering signals in a radio receiver. 3,478,268, 11-11-69, Cl. 325-65.

Covill, Dennis H., to E.M.I.-Cossor Electronics Limited. Interrogating apparatus for determining the optimum frequency for radio communication. 3,475,684, 10-28-69, Cl. 325-67.

Covill, Dennis H., to E.M.I.-Cossor Electronics Limited. Interrogating apparatus for determining optimum frequency for radio communication. 3,475,685, 10-28-69, Cl. 325-67.

Covington, Charles H. Air circulating means for a patio table and umbrella therefor. 3,444,799, 5-20-69, Cl. 98-1.

Cow & Gate Limited: *See*—
Charles, George K., 3,446,690.
Robertson, George M.; and Charles, George K., 3,468,026.

Cowal, Alexander R.; Sams, Gary L.; and Sollie, William H. Device for operating switches. 3,438,662, 4-15-69, Cl. 287-104.

Cowan, Arnold A., to Bobrick Corporation, The, mesne. Recessed washroom dispenser and method of installing the same. 3,432,217, 3-11-69, Cl. 312-242.

Cowan, Arnold A., to Bobrick Corporation, The, mesne. Balanced shutoff valve. 3,469,818, 9-30-69, Cl. 251-129.

Cowan, Charles V. Easel clip. 3,427,695, 2-18-69, Cl. 24-259.

Cowan, Claude Isaac, to Elliott Brothers (London) Limited. Analogue digital converters. 3,425,054, 1-28-69, Cl. 340-347.

Cowan, George R.: *See*—
Bergmann, Oswald R.; Buchwald, Joseph; and Cowan, George R.,3,439,408.

Cowan, Gerald de G., to Automation Industries, Inc. Ultrasonic search wheel assembly. 3,442,119, 5-6-69, Cl. 73-67.5

Cowan, Gerald de G.; and Munger, Donald W., to Automation Industries, Inc. Ultrasonic nondestructive tester including means for separating electrical noise from the electrical signals. 3,482,434, 12-9-69, Cl. 73-67.8

Cowan, Jack C.; Beasley, Augustus Earl, Jr.; Jordan, John W.; Finlayson, Claude Malcolm; and Sterns, Robert O., to National Lead Company. Dispersion process and composition. 3,425,953, 2-4-69, Cl. 252-363.5

Cowan Pressroom Products, Inc.: *See*—
Nettleman, John B., 3,430,560.

Cowan, Robert N., to Westinghouse Electric Corporation. Universal expandable winding mandrel. 3,458,150, 7-29-69, Cl. 242-72.

Cowan, Stuart C. Baby environment simulator. 3,419,923, 1-7-69, Cl. 5-348.

Cowan, William C., 50% to Rees Burner & Blow Pipe Co. Industrial burner system. 3,472,184, 10-14-69, Cl. 110-7.

Cowans, Kenneth W., to Hughes Aircraft Company. Cryogenic refrigerator adapted to miniaturization. 3,423,948, 1-28-69, Cl. 62-6.

Cowans, Kenneth W., to Hughes Aircraft Company. Cryogenic refrigerator arrangement. 3,469,409, 9-30-69, Cl. 62-6.

Cowdin, Lloyd D. Fluid control valve. 3,451,430, 6-24-69, Cl. 137-625.69

Cowell, Clifton Douglas; and Tyler, Geoffrey James, to British Nylon Spinners Limited. N-alkyl substituted polyamide elastomers. 3,485,805, 12-23-69, Cl. 260-78.

Cowell, Robert L.; and May, Richard L., to Mattel, Inc. Means for automatically actuating an animating device in an oscillating toy. 3,475,856, 11-4-69, Cl. 46-232.

Cowell, Terence K., to Brooke, Godfrey. Skin resistance reaction time testing apparatus. 3,468,302, 9-23-69, Cl. 128-2.1

Cowin, William Alan; and Carter, Ronald Philip, to English Electric Company Limited, The. Electrical signal phase comparator. 3,469,196, 9-23-69, Cl. 328-133.

Cowles, Charles Donald, to Perkin-Elmer Corporation, The. Transports for elongated material. 3,434,639, 3-25-69, Cl. 226-21.

Cowles Chemical Company: *See—*
Bohman, Wenzel L., 3,457,124.
Shaver, Richard C., 3,471,253.

Cowles, Craig H., to Aluminum Specialty Company. Electrostatic coating device. 3,476,082, 11-4-69, Cl. 118-635.

Cowles, David H. Lathe attachment. 3,434,384, 3-25-69, Cl. 90-11.

Cowles, John H., to Torrington Company, The. Bearing seals for drawn cup bearings. 3,423,140, 1-21-69, Cl. 308-187.2

Cowles, John H.; and Rollins, James W., to Torrington Company, The. Method and apparatus for rolling bearing races. 3,434,322, 3-25-69, Cl. 72-107.

Cowles, Robert John, to Quality Components, Incorporated. Method of manufacturing cylindrical ceramic capacitors. 3,435,496, 4-1-69, Cl. 29-25.42

Cowley, Francis X., to Crowley Hession Engineers. Cryogenic tanks and process of making the same. 3,446,888, 5-27-69, Cl. 264-256.

Cowley, George E. Bath. 3,423,769, 1-28-69, Cl. 4-173.

Cowley, Harold Raymond; and Lashenko, John, to Stothert and Pitt, Limited. Non-steerable twin roll vibrating roller. 3,439,594, 4-22-69, Cl. 94-50.

Cowley, John James, to Therapeutic Research Corporation Limited. Tubular pressure vessel. 3,432,060, 3-11-69, Cl. 220-3.

Cowley, Sidney Ian; Wilde, Goeffrey Light; and Honey, Alfred John, to Rolls-Royce Limited. Gas turbine by-pass engines. 3,465,525, 9-9-69, Cl. 60-261.

Cowlin, Donald G. Belt coupled drive means. 3,426,605, 2-11-69, Cl. 74-219.

Cowlishaw, Frank; and Town, Frank, to Dobson, W. E. & F., Limited. Transportable load-carrying appliances. 3,460,697, 8-12-69, Cl. 214-515.

Cowlishaw, Frank; and Town, Frank, to Dobson, W. E., & F., Limited. Transportable load-carrying appliances. 3,476,275, 11-4-69, Cl. 214-517.

Cowman, George W.: *See—*
Zelik, Hynek J.; and Cowman, George W.,3,450,917.

Cowpland, Michael C. J.: *See—*
Lajeunesse, Harry J.; Cowpland, Michael C. J.; and Hanna, John L.,3,463,723.

Cox & Wright Limited: *See—*
Wright, Malcolm Edward John; and Cox, Gordon Cavell, 3,471,880.

Cox, Allan: *See—*
Smith, Lloyd B.,; Guinn, John T., Jr.; and Cox, Allan,3,477,111.

Cox, Alvon R., to Abbott Laboratories. Cored pillow and method of making same. 3,462,776, 8-26-69, Cl. 6-337.

Cox, Andrew J. Safety device for trenches and the like. 3,470,699, 10-7-69, Cl. 61-41.

Cox, Andrew P., Jr.; and Price, William L., to Westinghouse Electric Corporation. Signal processor. 3,432,851, 3-11-69, Cl. 343-6.5

Cox, Andrew P., Jr.: *See—*
Abruzzo, Joseph; Cox, Andrew P., Jr.; and Hollandbeck, Raymond F.,3,460,060.

Cox, Arthur S.; and Taggart, John H., to Suburban Mechanical Contractors, Inc. Production of char. 3,471,369, 10-7-69, Cl. 202-106.

Cox, Arthur; Gladysz, Carl V.; and Linke, Arthur G., to Dominion Foundries and Steel Limited. Quenching zinc metal coatings with atomised water spray. 3,428,023, 2-18-69, Cl. 118-68.

Cox, Bing A.: *See—*
Curtis, Larry L.; O'Gorman, Thomas M.; and Cox, Bing A.,3,438,349.

Cox, Bradley G., to Baker Perkins Inc. Centrifugal machine. 3,451,550, 6-24-69, Cl. 210-78.

Cox, Cecil Wayne; and Hornung, Louis M., to International Business Machines Corporation. Accumulator for performing arithmetic operations. 3,426,185, 2-4-69, Cl. 235-176.

Cox, Clarence D., to Canadian Patents and Development Limited. Comparator circuit having a hall generator for measurement of D.C. magnetic fields. 3,422,347, 1-14-69, Cl. 324-45.

Cox, Clarence: *See—*
Horton, Gilbert; Ruth, Wayne A.; and Cox, Clarence,3,433,107.

Cox, David B., to Mobil Oil Corporation. Lubrication system employing a viscoelastic liquid. 3,443,663, 5-13-69, Cl. 184-6.

Cox, David B., to Mobil Oil Corporation. Sealing system. 3,449,025, 6-10-69, Cl. 308-36.3

Cox, Dean M., to General Motors Corporation. Corrugated plate type heat exchanger. 3,451,474, 6-24-69, Cl. 165-166.

Cox, Donald C., to United States of America, Army, meane. Elmination of phase errors due to antenna vibration. 3,482,246, 12-2-69, Cl. 343-100.

Cox, Donald J., to Cotton Enterprises, Inc. Boll and burr extractors. 3,423,797, 1-28-69, Cl. 19-202.

Cox, Duane Morley: *See—*
Fuentes, Manuel N.; and Cox, Duane Morley,3,465,966.

Cox, Ernest Francis, to Ronson Corporation. Oscillating electric motor structure. 3,437,852, 4-8-69, Cl. 310-36.

Cox, Ernest Francis, to Ronson Corporation. Heater assembly. 3,486,003, 12-23-69, Cl. 219-375.

Cox, Ernest P. Scope sight lens protector. 3,465,446, 9-9-69, Cl. 33-50.

Cox, Eugene B., to General Electric Company. Electrical elements with impregnated dielectric and insulators. 3,450,968, 6-17-69, Cl. 317-258.

Cox, Eugene F.; and Knopf, Robert J., to Union Carbide Corporation. Phenol-formaldehyde-aliphatic amine condensation products. 3,436,373, 4-1-69, Cl. 260-51.5

Cox, Eugene F.: *See—*
Hostettler, Fritz; and Cox, Eugene F.,3,422,118.
Hostettler, Fritz; and Cox, Eugene F.,3,426,042.

Cox, Frank T., Jr.; Powers, Richard L.; and Williams, William J., to Rockwell-Standard Company, mesne. Brake actuator. 3,462,986, 8-26-69, Cl. 92-63.

Cox, Furman S., to Deering Milliken Research Corporation. Loom box front. 3,426,809, 2-11-69, Cl. 139-183.

Cox, George W.; Garcia, Lloyd J.; and Reyes, Edward, to Aggregate Plant Products Company. Mobile concrete batching plant. 3,476,270, 11-4-69, Cl. 214-2.

Cox, Gerald E.; and Krup, Donald Edward, to Therm-Appliance Mfg., Co., Inc. Apparatus for heating self-contained popcorn containers. 3,465,667, 9-9-69, Cl. 99-238.3

Cox, Gordon Cavell: *See—*
Wright, Malcolm Edward John; and Cox, Gordon Cavell,3,471,880.

Cox, Herbert F., Jr. Liquid measuring device. 3,447,721, 6-3-69, Cl. 222-107.

Cox, Herschel A., Jr. Self rolling dispensing tube. 3,458,087, 7-29-69, Cl. 222-99.

Cox, Howard D.; and Rosenberg, Harry W., to Titanium Metals Corporation of America. Titanium-base alloys. 3,457,068, 7-22-69, Cl. 75-175.5

Cox, Hubert L.: *See—*
Haroldson, Arthur H.; and Cox, Hubert L.,3,434,889.

Cox, Ivan F.; and Albert, Wallace R. Guitar type keying system for other instruments. 3,482,028, 12-2-69, Cl. 84-1.16

Cox, Jack C.; and Meldau, Robert F., to Phillips Petroleum Company. Retrievable filter apparatus. 3,437,135, 4-8-69, Cl. 166-115.

Cox, Jack Lamarr; and Crouch, Arthur B., to Radiation Incorporated. Welder alignment and positioning fixture. 3,475,582, 10-28-69, Cl. 219-119.

Cox, James R. Drift detector. 3,434,062, 3-18-69, Cl. 328-163.

Cox, James V.: *See—*
Altman, Max S.; and Cox, James V.,3,478,738.

Cox, Jesse H.: *See—*
McClintock, Eugene P.; and Cox, Jesse H.,3,464,600.

Cox, John B., to Mobil Oil Corporation. Flow indicator and control system. 3,446,986, 5-27-69, Cl. 307-118.

Cox, John E.; Hasser, George L.; Boehm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F., to International Telephone and Telegraph Corporation. Automatic switching network. 3,467,780, 9-16-69, Cl. 179-18.

Cox, John E.; and Veltri, Richard D., to United Aircraft Corporation. Process for producing glass coated beryllium fibers and resulting products. 3,483,072, 12-9-69, Cl. 161-175.

Cox, John E.: *See—*
Veltri, Richard D.; and Cox, John E.,3,481,390.

Cox, John J., to McDonnell Douglas Corporation, mesne. Means including a test probe having a pair of inductively coupled windings for locating faults in conductors. 3,453,533, 7-1-69, Cl. 324-52.

Cox, Julian F., Jr., to Newport News Shipbuilding and Dry Dock Company. Rotary pressure vessel. 3,481,050, 12-2-69, Cl. 34-124.

Cox, L. M., Manufacturing Co., Inc.: *See—*
Rannalli, Fred J., 3,457,538.

Cox, Lewis. Mixer-distributor for dry cementitious material. 3,464,676, 9-2-69, Cl. 259-153.

Cox, Mason C.: *See—*
Sara, Raymond V.; Cox, Mason C.; and Thielke, Norman R.,3,483,126.

Cox, Norman L.; and Hicks, William T., to Du Pont de Nemours, E. I., and Company. Preparation of ferromagnetic Cr O_2 by heating Cr O_3 in the presence of O_2 and Cr_2 O_3. 3,451,771, 6-24-69, Cl. 23-145.

Cox, Norman R.: *See—*
Kiff, Ben W.; and Cox, Norman R.,3,440,180.
Kiff, Ben W.; and Cox, Norman R.,3,467,716.

Cox, Paul A.: *See—*
Kolin, Alexander; and Cox, Paul A.,3,479,277.
Cox, Percy T.: *See—*
Richter, Albert P., Jr.; and Cox, Percy T.,3,455,158.
Cox, Peter Oliver; and Cundall, James William, to Rolls-Royce Limited. Pod for a gas turbine engine. 3,474,988, 10-28-69, Cl. 244-53.
Cox, Robert B. Solvent purification. 3,425,235, 2-4-69, Cl. 62-58.
Cox, Robert P.; and Buetow, Ralph W., to Celanese Corporation. Bonding of plastic materials by polymerizable solvents. 3,445,311, 5-20-69, Cl. 156-307.
Cox, Ronald H.: *See—*
Conrad, Raymond W.; and Cox, Ronald H.,3,441,453.
Cox, Sam J., Jr. Campers shower. 3,483,571, 12-16-69, Cl. 4-145.
Cox, Smythe R. Food treatment and preparation apparatus. 3,472,151, 10-14-69, Cl. 99-259.
Cox Systems Limited: *See—*
Coburn, Donald G., 3,455,620.
Cox, Thomas C.: *See—*
Bernholz, William F.; and Cox, Thomas C.,3,464,922.
Cox, Vernon L.; and Titus, Charles H., to General Electric Company. Ambient deionizing apparatus for insulators. 3,471,632, 10-7-69, Cl. 174-141.
Cox, Williaam J. (Sales) Limited: *See—*
Back, Philip John Quarles; and Ritchie, Colin Edward, 3,473,276.
Cox, William A., to Milchem Incorporated. Process for sealing porous earth formations by cementing. 3,482,634, 12-9-69, Cl. 166-292.
Cox, William H. Golfing aid. 3,423,095, 1-21-69, Cl. 273-189.
Cox, William J. G. Multiple pin-hole camera. 3,452,657, 7-1-69, Cl. 95-11.
Cox, William T.: *See—*
Parsons, Robert E.; Darms, Fred J.; and Cox, William T.,3,436,038.
Coy, Calvin L., to Kalamazoo Manufacturing Company. Railway roadbed plow. 3,468,042, 9-23-69, Cl. 37-104.
Coy, Donald L., to St. Marys Tool & Die, Inc. Fluid transmission apparatus. 3,483,799, 12-16-69, Cl. 91-451.
Coyle, Edward L.: *See—*
Geyer, Wallace T.; and Coyle, Edward L.,3,468,300.
Coyle, Edward L.; and Kemp, Willard E., to ACF Industries, Incorporated. Controlled aeration system for a covered hopper railway car in transit. 3,486,241, 12-30-69, Cl. 34-22.
Coyle, Harry H.; and Michelsen, Johan L., to Okon, R. J., Company, Inc., mesne. Keyless chuck. 3,467,403, 9-16-69, Cl. 279-58.
Coyle, Jan R., to Threadline Fastener Corporation, mesne. Internally threaded self-locking fastener and method of making the same. 3,437,118, 4-8-69, Cl. 151-7.
Coyle, Robert D. Vehicle with shock absorbing mounting. 3,476,434, 11-4-69, Cl. 296-35.
Coyne Cylinder Co.: *See—*
Connolly, John J., 3,455,515.
Coyne, Donald M.: *See—*
Cahoy, Roger P.; and Coyne, Donald M.,3,439,045.
Cahoy, Roger P.; and Coyne, Donald M.,3,446,753.
Coyne, Donald M.; and Cahoy, Roger P., to Gulf Oil Corporation. Oxidation of isobutylene to methacrylaldehyde over complex tungsten oxide catalysts. 3,444,240, 5-13-69, Cl. 260-604.
Coyne, Francis P.: *See—*
Hughes, Robert W.; and Coyne, Francis P.,3,478,832.
Coyne, John J., to Robertshaw Controls Company. Detecting switch means. 3,483,437, 12-9-69, Cl. 317-146.
Cozad, Lester W. Apparatus for dispensing precut potatoes and like material. 3,442,423, 5-6-69, Cl. 222-70.
Cozens, Dennis Alan, to William Cotton Limited. Yarn take-up mechanism for straight bar knitting machines. 3,469,421, 9-30-69, Cl. 66-129.
Cozzarin, Edward: *See—*
Bebbington, John, Jr.; and Cozzarin, Edward,3,469,465.
Cozzarin, Edward; Nemeth, Emery; and Paul, William T., to Borg-Warner Corporation, mesne. Composite drive wheel. 3,469,468, 9-30-69, Cl. 74-243.
C/P Corporation: *See—*
Scott, Arthur L., 3,439,107.
Crabb, Jasper R., to AG-Pak Inc. Fruit box filler. 3,420,038, 1-7-69, Cl. 53-248.
Crabb, Jasper R., to Pomona Service & Supply Co., Inc. Bulk storage fruit-vending machine. 3,422,987, 1-21-69, Cl. 221-13.
Crabb, John A.: *See—*
Marquis, Theodore M.; and Crabb, John A.,3,473,720.
Crabtree, Kenneth L., to Keyes Fibre Company. Molded container positioner. 3,477,564, 11-11-69, Cl. 206-65.
Crabtree, Lloyd O.; and Van den Broek, Jan A., to Conductron Corporation. Synchronous optical interrogation system. 3,427,634, 2-11-69, Cl. 346-108.
Crabtree, Reece J., to Sinclair Research, Inc. Self-proportioning flow system. 3,448,754, 6-10-69, Cl. 137-99.5
Crabtree, Royale R.; Becker, Charles W.; and Mead, Dennis E, to United States of America, Army. Grenade ejector. 3,448,654, 6-10-69, Cl. 89-1.5
Craddock, Mike. Probe electrode. 3,470,742, 10-7-69, Cl. 73-304.
Craft, David J., to British Telecommunications Research Limited. Fluid flow measuring equipment. 3,449,953, 6-17-69, Cl. 73-204.
Craft, David John, to British Telecommunications Research Limited. Fluid control devices. 3,457,933, 7-29-69, Cl. 137-81.5
Craft, Donald I., to General Electric Company. Film stretching device. 3,422,669, 1-21-69, Cl. 73-102.
Craft, Edward P.: *See—*
Martens, David G.; and Craft, Edward P.,3,447,279.
Craft, Jack: *See—*
Avins, Jack; and Craft, Jack,3,467,909.
Craft, Leonard F. Apparatus for preventing scale formation in water systems. 3,486,999, 12-30-69, Cl. 204-197.
Craft, Leonard F.; and Calvery, Frank E. Fluid stabilizer. 3,448,034, 6-3-69, Cl. 204-197.
Crafton, Charles J.: *See—*
Rosenberg, William; Crafton, Charles J.; Johnson, Frederick Douglas; and Hohman, Ross W.,3,439,590.
Crafts, Cecil A., to Robertshaw Controls Company. FSK and PSK wave receiver. 3,470,478, 9-30-69, Cl. 325-320.
Crafts, Cecil A.; and Goodwin, Perry H., Jr., to Robertshaw Controls Company. Frequency shift detection system. 3,474,341, 10-21-69, Cl. 325-320.
Cragg, Hoyt J.; and Nolen, Doyle A., to Ethyl Corporation. Process of oxidizing aluminum alkyls. 3,475,476, 10-28-69, Cl. 260-448.
Cragg, Richard E., to Teletype Corporation. Winding reel. 3,468,492, 9-23-69, Cl. 242-71.8
Cragg, William Donald; and Barnes, George J. P., to International Standard Electric Corporation. Electromechanical transducer coupled to low in- put impedance transistor amplifier and yielding a flat response over a given frequency range. 3,445,595, 5-20-69, Cl. 179-1.
Cragoe, Edward J., Jr., to Merck & Co., Inc.[4-(2,3-Dihaloalkanoyl)phenoxy] alkanoic acids. 3,445,511, 5-20-69, Cl. 260-521.
Cragoe, Edward J., Jr., to Merck & Co., Inc.[4-[2-(Alkoxymethyl)alkanoyl]phenoxy]acetic. 3,450,750, 6-17-69, Cl. 260-521.
Cragoe, Edward J., Jr., to Merck & Co., Inc.[[3-(Hydrocarbylpolythio)alkanoyl] phenoxy] alkanoic acids and [[3-(hydrocarbylpolythio)alkanoyl] phenylthio] alkanoic acids. 3,458,563, 7-29-69, Cl. 260-516.
Cragoe, Edward J., Jr., to Merck & Co., Inc.Preparation of [4-(2-methylenealkanoyl)- phenoxy]alkanoic acids. 3,478,085, 11-11-69, Cl. 260-473.
Cragoe, Edward J., Jr., to Merck & Co., Inc.Preparation of [(2-methylenealkanoyl) phenoxy]alkanoic acids. 3,479,402, 11-18-69, Cl. 260-520.
Cragoe, Edward J., Jr.; and Baldwin, John J., to Merck & Co., Inc. 2,5-Disubstituted-2-(carboxyalkoxyaroyl)-6- (carboxyalkoxyaryl)-3,4-dihydro-2H-pyrans and their derivatives. 3,483,227, 12-9-69, Cl. 260-345.7
Cragoe, Edward J., Jr.; and Bicking, John B., to Merck & Co., Inc.[(2,2-Diacylvinyl)aryloxy(and arylthio)] alkanoic acid derivatives. 3,465,022, 9-2-69, Cl. 260-453.
Cragoe, Edward J., Jr.; and Jones, James H., to Merck & Co., Inc. 3-Hydroxy and 3-mercapto-pyrazinoylguanidines, corresponding ethers and thioethers and processes for their preparation. 3,472,848, 10-14-69, Cl. 260-250.
Cragoe, Edward J., Jr.; and Jones, James H., to Merck & Co. Inc. 2,4-Diamino-6-halopteridines and processes for their preparation. 3,487,082, 12-30-69, Cl. 260-251.5
Cragoe, Edward J., Jr.: *See—*
Bicking, John B.; and Cragoe, Edward J., Jr.,3,458,565.
Jones, James H.; and Cragoe, Edward J., Jr.,3,461,123.
Schultz, Everett M.; and Cragoe, Edward J., Jr.,3,445,503.
Sprague, James M.; and Cragoe, Edward J., Jr.,3,478,021.
Cragomatic, Inc.: *See—*
Egeland, Haakon G.; and Dioguardi, John, 3,447,665.
Cragon, Harvey G.; and Smith, Samuel K., to Texas Instruments, Incorporated. Digital integrator. 3,422,435, 1-14-69, Cl. 343-17.1
Cragstan Industries, Inc.: *See—*
Stanton, Frank, 3,433,110.
Cragtan Industries, Inc.: *See—*
Tobari, Sakujiro, 3,448,649.
Craia, Giulio: *See—*
Carati, Luigi; Moiso, Ugo; and Craia, Giulio,3,429,870.
Craig & Seeley Limited: *See—*
Price, George Edmond, 3,437,087.
Craig, Allen G.: *See—*
Arndt, Richard H.; and Craig, Allen G.,3,466,593.
Clark, Albert A.; Craig, Allen G.; and Wilbur, Benjamin,3,456,511.
Craig, Andrew J. Masking slide mount. 3,470,644, 10-7-69, Cl. 40-158.
Craig, Burnie M.: *See—*
Proudfoot, Ward M.; Craig, Burnie M.; and Viancour, Albert D.,3,480,043.

Craig, Dwin R., to Ingenuics, Inc., meane. Transaxial processor. 3,453,944, 78-69, Cl. 95-94.
Craig, Dwin, to Fairchild Hiller Corporation. Camera system. 3,435,743, 4-1-69, Cl. 95-12.5
Craig, Forrest F., Jr.: *See—*
Satter, Abdus; and Craig, Forrest F., Jr.,3,434,544.
Craig, Francis A.; and Albright, Merle L., to Reynolds Metals Company. Method and apparatus for autoclaving product- containing flexible pouch constructions or the like. 3,481,688, 12-2-69, Cl. 21-56.
Craig, Gene C., to Schlumberger Technology Corporation. Well tool with selectively-engaged anchoring means. 3,429,375, 2-25-69, Cl. 166-130.
Craig, George B., Jr.; and Fuchs, Morton, to United States of America, Health Education and Welfare. Sterilization of female mosquitoes with a hormone derived from male mosquitoes. 3,450,816, 6-17-69, Cl. 424-95.
Craig, James A.: *See—*
Piper, Robert J.; Craig, James A.; and Dutton, Richard A.,3,429,185.
Craig, Jimmie M., to United States of America, Navy. Very low descent rate, high intensity, illuminating flare. 3,478,687, 11-18-69, Cl. 102-35.
Craig, Jimmie M.; Pohl, Russell A.; and Yost, Paul E., to United States of America, Navy, mesne. Method for inflating a balloon. 3,469,805, 9-30-69, Cl. 244-31.
Craig, Jimmie M.: *See—*
Noles, Ronald C.; and Craig, Jimmie M.,3,420,474.
Craig, John: *See—*
Bentley, Roy; and Craig, John,3,445,265.
Bentley, Roy; and Craig, John,3,463,660.
Craig, Orlyn W., to Sperry Rand Corporation. Multivibrator having an output frequency independent of fluctuations in energizing voltage. 3,484,674, 12-16-69, Cl. 321-45.
Craig, Richard L., to Nalco Chemical Company. Purification of ethers. 3,450,608, 6-17-69, Cl. 204-59.
Craig, Richard L., to Dow Chemical Company, The. Hydroxyalkyl acrylate interpolymers crosslinked with tris (aziridinyl) phosphine oxides or sulfides. 3,458,485, 7-29-69, Cl. 260-79.5
Craig, Richard L.: *See—*
Mayerle, Evan A.; and Craig, Richard L.,3,450,734.
Craig, Richard T., to Aluminum Company of America. Horizontal continuous casting. 3,455,369, 7-15-69, Cl. 164-73.
Craig, Robert G.; Doelp, Louis C., Jr.; and Friedman, Lee, to Air Products and Chemicals, Inc. Benzene production. 3,487,120, 12-30-69, Cl. 260-674.
Craig, Robert J. G., to Teledyne Systems, Inc. Free rotating gyro alignment apparatus. 3,430,499, 3-4-69, Cl. 74-5.1
Craig, Sam N.: *See—*
Combs, William H.; Craig, Sam N.; and Barland, Lance C.,3,426,677.
Craig, Thomas Moodie. Fluid machines. 3,433,167, 3-18-69, Cl. 103-125.
Craig, Walter J., to Kand Rubber Company. Closure construction. 3,432,069, 3-11-69, Cl. 220-63.
Craig, Walter J., to K and M Rubber Company. Storage container. 3,470,927, 10-7-69, Cl. 150-0.5
Craig, Winfred C.; Davis, Gershon J.; and Shull, Peter O., to GAF Corporation. Catalytic reduction of chloronitro aromatic compounds. 3,474,144, 10-21-69, Cl. 260-580.
Craighead, Philip B.; and Naffa, Faisal A., to Brooks & Perkins, Incorporated. Field hangar or shelter. 3,449,872, 6-17-69, Cl. 52-66.
Crain, Donald L.: *See—*
Kenton, Joseph R.; Crain, Donald L.; and Zuech, Ernest A.,3,449,463.
Crain, Donald L., to Phillips Petroleum Company. Bis(cycloalkenyl)-substituted olefins. 3,463,828, 8-26-69, Cl. 260-666.
Stapp, Paul R.; and Crain, Donald L.,3,457,320.
Crain, Edward I. Brackets for supporting a shelf. 3,469,811, 9-30-69, Cl. 248-248.
Crain, Robert L., to Gray Tool Company. Remotely releasable pipe connection. 3,484,912, 12-23-69, Cl. 24-279.
Crainich, Victor A., Jr.: *See—*
Bakan, Joseph A.; and Crainich, Victor A., Jr.,3,440,106.
Cram, Donald John: *See—*
Birkett, Gordon; and Cram, Donald John,3,464,934.
Cram, Robert D.: *See—*
Emanuelson, Roy M.; and Cram, Robert D.,3,433,947.
Cramer, Christoph; Kluge, Gunter; and Woitke, Ernst, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Process and apparatus for making paper covered electrical cable conductors. 3,451,204, 6-24-69, Cl. 57-18.
Cramer, Claude: *See—*
Chemla, Claude; Cramer, Claude; and Leger, Francois,3,462,738.
Cramer, Harold W. Chair. 3,446,532, 5-27-69, Cl. 297-312.
Cramer Industries, Inc.: *See—*
Walkinshaw, Thomas G., 3,434,756.
Walkinshaw, Thomas G., 3,443,784.
Cramer, Max: *See—*
Remensperger, Franz; Cramer, Max; and Schnee, Walter,3,451,569.
Cramer, Robert, Jr., to Murphy Diesel Company. Torque control system for prime movers. 3,447,517, 6-3-69, Cl. 123-97.
Cramer, Ulrich; Jung, Manfred; and Weinmann, Karl, to Fiala, Martin, KG. Device for the hitching of a loading platform. 3,450,417, 6-17-69, Cl. 280-425.
Cramer, William F., Jr., to United States of America, Army. Segmental propellant grain. 3,468,125, 9-23-69, Cl. 60-39.47
Cramm, Rudolf: *See—*
Dilchert, Heinz; Cramm, Rudolf; and Fibranz, Joachim,3,442,084.
Cramm, Russell H.; and McFadden, Russell T., to Dow Chemical Company, The. Copolymers of styrene compounds and dialkylamino hydroxypropyl methacrylates. 3,440,232, 4-22-69, Cl. 260-80.73
Crampton, Felix Jeremy Philip; and Wilkinson, Terence Sidwell, to Conch International Methane Limited, mesne. Air drying by direct contact with separated liquid oxygen fraction. 3,440,827, 4-29-69, Cl. 62-13.
Cranage, Bidwell C., to Stile-Craft Manufactures, Inc. Secondary poppet and pusher system. 3,441,046, 4-29-69, Cl. 137-329.1
Cranage, Bidwell C., to Stile-Craft Manufacturers, Inc. Audio relief valve. 3,459,218, 8-5-69, Cl. 137-557.
Cranage, Bidwell Chapman, to Stile-Craft Manufacturers, Inc. Coupler assembly. 3,448,760, 6-10-69, Cl. 137-360.
Cranage, Bidwell Chapman, to Stile-Craft Manufactures, Inc. Coupler assembly. 3,477,105, 11-11-69, Cl. 24-230.
Cranch, Edward J.; and Stanwood, Robert H., to Leeds & Northrup Company. Independent zero and range adjustments for non- linear output differential pressure transmitter force balance system. 3,449,651, 6-10-69, Cl. 318-22.
Cranch, John E.: *See—*
Hudson, Frederick W.; and Cranch, John E.,3,471,695.
Cranch, William E., to Bunker-Ramo Corporation, The. Electronic component test fixture. 3,458,687, 7-29-69, Cl. 219-521.
Crandall, Charles B.; and Townsend, Franklin L., to Barber-Colman Company. Method and apparatus for open end spinning. 3,468,116, 9-23-69, Cl. 57-58.89
Crandall, Gary J., to United States of America, Atomic Energy Commission. Fuel pin spacers. 3,463,703, 8-26-69, Cl. 176-78.
Crandall, Herbert D. Sine V-block. 3,423,885, 1-28-69, Cl. 51-217.
Crandon, Harry D.; and Greenberg, Ronald B., to American Optical Corporation, mesne. Abrasion-resistant optical element. 3,484,157, 12-16-69, Cl. 351-166.
Crane, Carlton L., to Eastman Kodak Company. Drying processes for low viscosity cellulose esters. 3,455,901, 7-15-69, Cl. 260-230.
Crane, Carlton L.; and Malm, Carl J., to Eastman Kodak Company. Method for hydrolyzing cellulose triesters without viscosity loss and for manufacturing toluene soluble cellulose butyrate. 3,485,816, 12-23-69, Cl. 260-225.
Crane, Carlton L.; and Williams, Robert F., Jr., to Eastman Kodak Company. Forming articles of organic acid esters of cellulose with low melting points and improved solubility and molding properties. 3,467,746, 9-16-69, Cl. 264-330.
Crane Carton Corporation: *See—*
Schmidt, Leonard G., 3,434,646.
Crane, Charles V. Electronic door lock and supervisory system. 3,441,808, 4-29-69, Cl. 317-134.
Crane Co.: *See—*
Bearint, David E., 3,483,710.
Cantalupo, Francis J.; and Setka, Raymond P., 3,482,459.
Crits, George John, 3,455,819.
Grossinger, John S., 3,422,249.
Kanter, Jerome J., 3,438,802.
Kustwin, Leo Frank, 3,429,556.
Maciulaitis, Vytautus K.; Svabek, John E., Jr.; and Schrock, Donald C., Sr., 3,473,173.
Morando, Jorge A., 3,478,694.
Morando, Jorge A., 3,482,523.
Smith, Kenneth C.; and Marks, Robert, 3,458,438.
Crane, Donald R., to Reynolds Metals Company. Method for making a pouch of laminated sheet material. 3,447,428, 6-3-69, Cl. 93-35.
Crane, Edward J., to International Agri-Systems, Inc. Heat exchange tank. 3,426,546, 2-11-69, Cl. 62-63.
Crane, Edward J., to International Agri-Systems, Inc. Poultry picker. 3,453,683, 7-8-69, Cl. 17-11.1
Crane Engineering Company, Incorported: *See—*
Pohle, William A., 3,466,073.
Crane, Everett D.; and Werbel, Burton, to United States of America, Army. Smoke cartridge. 3,430,569, 3-4-69, Cl. 102-90.
Crane, Grant; and Kay, Edward L., to Firestone Tire & Rubber Company, The. Process for dehydrogenation of olefins. 3,456,030, 7-15-69, Cl. 260-680.
Crane, H. W., Company: *See—*
Kruse, Marvin A., 3,435,558.
Crane, Hewitt D.; and Mac Curdy, William K., to AMP Incorporated. Magnetic-core shift register. 3,453,605, 7-1-69, Cl. 340-174.

Crane, Jack W.; and Nolt, Edwin B., to Sperry Rand Corporation. Hay baler. 3,464,345, 9-2-69, Cl. 100-142.
Crane, Jack W.; Nolt, Edwin B.; and James, William E., to Sperry Rand Corporation. Hay baler. 3,464,346, 9-2-69, Cl. 100-142.
Crane, Michael, to General Pneumatics Corporation. Gas generator. 3,481,149, 12-2-69, Cl. 62-45.
Crane Packing Company: *See—*
Domeny, Steven, 3,470,781.
Schulz, Eugene A., 3,443,342.
Crane Packing Limited: *See—*
Wilkinson, Samuel C. W., 3,438,640.
Crane, Paul J., to Magnavox Company, The. FM demodulator circuit for use in a facsimile system. 3,467,772, 9-16-69, Cl. 178-6.
Crane, Paul J.; and Reese, Glenn A., to Magnavox Company, The. Acoustical coupler. 3,449,522, 6-10-69, Cl. 179-1.
Crane Plastics, Inc.: *See—*
Bordner, Paul G., 3,432,966.
Posey, Paul D., 3,442,055.
Crane, Samuel P.; and Kent, Stephen D. Ventilating spacer. 3,451,074, 6-24-69, Cl. 5-347.
Crane, Walton B. Container for hanger-supported clothing. 3,421,614, 1-14-69, Cl. 206-7.
Crane, William B., Jr., to International Inpak Incorporated, mesne. Packaging machine. 3,470,675, 10-7-69, Cl. 53-167.
Crane, William B., Jr. Display package blank forming machine. 3,470,794, 10-7-69, Cl. 93-1.
Crane, William W. T.; and Stevens, Carlile R. Swimming pool water conditioner. 3,458,414, 7-29-69, Cl. 204-149.
Cranford, William B.; Petricola, Anthony J.; and McLeod, Murray J., to Canadian International Paper Company. Process of forming dielectric paper. 3,475,269, 10-28-69, Cl. 162-138.
Crank, Geoffrey James; and Eastwood, Geoffrey Wallwork, to Postmaster General, Her Majesty's. Magnetic marking of ferromagnetic articles. 3,452,343, 6-24-69, Cl. 340-174.1
Crans, David E. Apparatus for playing a mathematical board game. 3,460,835, 8-12-69, Cl. 273-135.
Cranston, Albert E., Jr.; Cranston, Albert W.; and Rowell, William J., to Devco, Inc. Wrapper dispenser. 3,471,994, 10-14-69, Cl. 53-209.
Cranston, Albert W.: *See—*
Cranston, Albert E., Jr.; Cranston, Albert W.; and Rowell, William J.,3,471,994.
Cranstoun, Leroy Bruce, to Ethicon, Inc. Method and apparatus for making collagen articles. 3,432,392, 3-11-69, Cl. 195-6.
Crary, William G.: *See—*
Clare, John; and Crary, William G.,3,451,716.
Craske, Haydn L., to Girling Limited. Spot type disc brake including spring biased caliper. 3,421,602, 1-14-69, Cl. 188-73.
Crast, Leonard B., Jr., to Bristol-Myers Company. 7-[α-Hydroxy-(2'or 3'-thienyl)-acetamido] cephalosporanic acids and related salts and derivatives. 3,422,099, 1-14-69, Cl. 260-243.
Crast, Leonard Bruce, Jr., to Bristol-Myers Company. S-substituted-thioacetamidocephalosporins. 3,422,100, 1-14-69, Cl. 260-243.
Crate-Rite, Incorporated: *See—*
Becklin, Dennis M., 3,482,895.
Craven, Aaron S., Jr. Swivel bearing structure. 3,428,998, 2-25-69, Cl. 16-21.
Craven, George Frederick; Heeks, John Stuart; and Woode, Alan David, to International Standard Electric Corporation. Pulse amplitude modulation to pulse width modulation converter. 3,422,364, 1-14-69, Cl. 329-106.
Craven, Herman R.; and Baxendale, John W., to Vendo Company, The. Sold-out control mechanism for double-depth stack article vender. 3,420,404, 1-7-69, Cl. 221-14.
Craven, James M., to Du Pont de Nemours, E. I., and Company. Crosslinked thermally reversible polymers produced from condensation polymers with pendant furan groups crosslinked with maleimides. 3,435,003, 3-25-69, Cl. 260-47.
Craven, James M.; Dye, John I.; and Hochberg, Jerome, to Du Pont de Nemours, E. I., and Company. Synthetic microporous polymeric sheet material. 3,481,766, 12-2-69, Cl. 117-76.
Craven, James M.; Dye, John I.; and Hoohberg, Jerome, to Du Pont de Nemours, E. I., and Company. Process for applying a polyurethane finish composition to synthetic microporous polymeric materials. 3,481,767, 12-2-69, Cl. 117-76.
Craven, Robert Lee, to Du Pont de Nemours, E. I., and Company. Method and apparatus for forming a fiber pack from bulky fibrous elements. 3,485,693, 12-23-69, Cl. 156-175.
Craven, Tom: *See—*
Stevens, Hugh Frederick; and Craven, Tom,3,463,622.
Craven, William J., to Dart Industries, Inc., mesne. Process of preparing block copolymers of polyolefines and polar vinyl monomers. 3,458,598, 7-29-69, Cl. 260-877.
Cravens, Raymond L. Golf club cart. 3,451,690, 6-24-69, Cl. 280-40.
Crawford & Russell Incorporated: *See—*
Stovall, William B., 3,476,522.
Crawford, Allan H., to Mohasco Industries, Inc. Recliner-rocker chair with a handle operated footrest. 3,475,051, 10-28-69, Cl. 297-69.
Crawford, Burdette B. Hand truck. 3,425,575, 2-4-69, Cl. 214-379.
Crawford, Charles R.: *See—*
Jackson, John G., Jr.; Beson, John, and; and Crawford, Charles R.,3,438,654.
Crawford, Charles W.: *See—*
Peek, Robert Lee, Jr.,3,474,205.
Crawford, Cullen B.: *See—*
Gessic , John D., 3,473,782.
Crawford, Donald C.; Viitanen, Veikko K.; and Hoffman, John D., to FMC Corporation. Bag stacker. 3,431,828, 3-11-69, Cl. 93-13.
Crawford, Duncan James, to Ex-Cell-O Corporation. Container closure construction. 3,471,076, 10-7-69, Cl. 229-17.
Crawford Fitting Company: *See—*
Beck, Edward, 3,447,122.
Crihfield, Richard P.; and Dodge, Harry G., 3,433,042.
Dodge, Harry G., 3,476,347.
Lennon, Fred A.; Zahuranec, Emery J.; Szohatzky, Zoltan; and Beck, Edward, 3,447,405.
Lennon, Fred A.; Zahuranec, Emery J.; Dodge, Harry G.; and Szohatzky, Zoltan, 3,475,948.
Crawford, George H., Jr., to Minnesota Mining and Manufacturing Company. Reacting nitrice oxide with olefins and products produced therefrom. 3,436,384, 4-1-69, Cl. 260-91.1
Crawford, Ishmael, to Colebrook Mills, Inc. Cable knitting method and apparatus. 3,431,752, 3-11-69, Cl. 66-96.
Crawford, Jack D., to Nalco Chemical Company. Corrosion inhibiting process. 3,447,891, 6-3-69, Cl. 21-2.5
Crawford, Jack E.; Foster, Harold M.; and Higgins, Thomas W., to Mobil Oil Corporation. Aluminum chloride catalyzed reaction of aliphatic dibasic acid anhydrides with heterocyclic compounds. 3,465,004, 9-2-69, Cl. 260-332.2
Crawford, James D.: *See—*
Wuellner, Louis E.; Stark, Jack L.; and Crawford, James D.,3,478,218.
Crawford, James G., to Pfizer, Chas., & Co., Inc. Inactivated hog cholera virus vaccine. 3,456,053, 7-15-69, Cl. 424-89.
Crawford, James L., to Caterpillar Tractor Company. Alternator with multiple coil rotating field. 3,444,410, 5-13-69, Cl. 310-262.
Crawford, James L.; and Staebler, Paul J., to Caterpillar Tractor Company. Method for forming rotor constrained electrical coils. 3,458,928, 8-5-69, Cl. 29-605.
Crawford, James L.: *See—*
Staebler, Paul J.; Crawford, James L.; Fangman, Charles N.; and McCutchen, Robert R.,3,447,012.
Crawford, Jerry W.: *See—*
Leasure, William C.; and Crawford, Jerry W.,3,449,134.
Crawford, John M. Hydraulic drive system. 3,448,577, 6-10-69, Cl. 60-53.
Crawford, Leo L.: *See—*
Amadon, Roger M.; Crawford, Leo L.; and Mangelsdorf, Robert C.,3,452,862.
Crawford, Lloyd W., to Du Pont de Nemours, E. I., and Company. Process of drying film. 3,422,546, 1-21-69, Cl. 34-25.
Crawford, Louis L.; Christensen, Thor E.; Sondej, Vincent S.; and Bajcar, Miles S., to Chemetron Corporation. Hide stripping apparatus. 3,461,482, 8-19-69, Cl. 17-21.
Crawford, Lynn D., 1/2 to Hanscom, Genevieve I., and 1/2 to Hanscom, Genevieve I., Magnuson, Robert, and Duggan, Louis J., as trustees of the estate of Magnuson, Roy M. Sorting system for food articles. 3,422,954, 1-21-69, Cl. 209-102.
Crawford, Ralph W., to Fisher-Price Toys, Inc. Music box viewer toy. 3,482,345, 12-9-69, Cl. 40-28.1
Crawford, Ray H.: *See—*
Hansen, Paul Edward; Crawford, Ray H.; and Gwin, Franklin P.,3,475,022.
Crawford, Robert F.: *See—*
Kitasaki, Kiyoshi; and Crawford, Robert F.,3,443,926.
Kitasaki, Kiyoshi; Bengelsdorf, Irving S.; and Crawford, Robert F.,3,443,925.
Crawford, Robert H., to Texas Instruments Incorporated. Trainable decision system utilizing metal-oxide- semiconductor field effect transistors. 3,430,203, 2-25-69, Cl. 340-172.5
Crawford, Robert H., to Texas Instruments, Incorporated. Linear amplifier utilizing a pair of field effect transistors. 3,436,621, 4-1-69, Cl. 317-235.
Crawford, Rondal G.: *See—*
Blumrich, Josef Franz; and Crawford, Rondal G.,3,443,773.
Crawford, Thomas G., to Westinghouse Electric Corporation. Textile bobbin. 3,436,034, 4-1-69, Cl. 242-118.32
Crawley, John F.; and Abelseth, Melvin Kenneth, to University of Toronto, The Governors of the. Rabies vaccine and process for preparation thereof. 3,423,505, 1-21-69, Cl. 424-89.
Crawley, John; Saunders, Alan; Milne, Alistair; and Campbell, William Henry, to Vickers Limited. High pressure device. 3,431,825, 3-11-69, Cl. 92-165.
Crawley Machinery Co.: *See—*
Sarring, Ernest J., 3,451,082.
Crawshaw, James Robert; and Bills, Kenneth Gordon, to TRW Inc., mesne. DC motor with P-M stator, split housing, and brush assembly. 3,445,693, 5-20-69, Cl. 310-42.
Craycraft, Orville L. Pipe wiper. 3,422,483, 1-21-69, Cl. 15-210.

Crayton, John W.: *See—*
Page, Russell D.; Klingaman, Dean C.; Belke, William H.; Crayton, John W.; and Scholl, Rolland D.,3,486,564.

CRC Crose International, Inc.: *See—*
Douglas, Edgar H., 3,445,104.

Creager, Lester W. Bucket tooth for excavating equipment. 3,431,664, 3-11-69, Cl. 37-142.

Creaghan, David Cyril: *See—*
Boyle, Willard Sterling; and Creaghan, David Cyril,3,434,661.

Creamer, Charles Edward, to Union Carbidc Corporation. Preparation of organosilicon-nitrogen compounds. 3,467,686, 9-16-69, Cl. 260-448.2

Creamer, Charles E., to Union Carbide Corporation. Single package room temperature vulcanizing silicone elastomer compositions. 3,451,964, 6-24-69, Cl. 260-37.

Creamer, Robert J., to Olin Mathieson Chemical Corporation. Firearm receiver and bolt with cooperating guide means. 3,431,668, 3-11-69, Cl. 42-16.

Creasman, D. O., Electronics, Inc.: *See—*
Holt, Donald R.; and Jones, Wallace E., Jr., 3,444,336.

Creasy, Fred K.; Horlacher, Robert L.; Logan, Mason A.; Smith, Larrabee M.; and Young, William Rae, Jr., to Bell Telephone Laboratories, Incorporated. Synchronous data repeater having noncompatible signal bypass. 3,440,337, 4-22-69, Cl. 178-4.

Creative Environments Inc.: *See—*
Solo, Alan J., 3,434,436.

Creative Research Corporation: *See—*
London, Alvin B.; and Winkler, Julius G., 3,474,477.

Creative Systems, Inc.: *See—*
Basseches, Mark T., 3,472,970.

Creators Limited: *See—*
Anselm, Anthony Cesar, 3,440,129.

Crecelius, Robert L.; and Deahl, Thomas J., to Shell Oil Company. Rejuvenation of catalysts poisoned by nitrogen compounds. 3,459,675, 8-5-69, Cl. 252-411.

Credner, Hans-Heinrich: *See—*
Puschel, Walter; Schranz, Karl-Wilhelm; Lassig, Wolfgang; Marx, Paul; and Credner, Hans-Heinrich,3,443,942.

Credner, Karl: *See—*
Renwanz, Gerhard; Credner, Karl; and Glantz, Erika,3,437,728.

Cree, David; and Wenzel, Guss E., to United States of America, National Aeronautics and Space Administration. Amplifier drift tester. 3,434,064, 3-18-69, Cl. 330-2.

Cree, Robert F.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,423,179.

Cree, Robert F., to General Electric Company. Gas sample enrichment device. 3,430,417, 3-4-69, Cl. 55-16.

Creech, Bobby A.: *See—*
Barton, Robert S.; Creech, Bobby A.; Dent, Benjamin A.; Hauck, Erwin A.; and McKeeman, William M.,3,461,434.

Creed & Company Limited: *See—*
Mason, Frederick Percival, 3,474,416.
Moore, Frank Arthur, 3,437,754.
Soper, Arthur John Compton, 3,446,944.
Turner, Frederick James Leslie; Soper, Arthur John Compton; and Morel, Harold Louis, 3,450,321.
Turner, Frederick James Leslie, 3,454,215.

Creedon, Jerome M.; and Massey, Joel H., to International Business Machines Corporation. Print unit for printing tapes and sales checks. 3,485,167, 12-23-69, Cl. 101-260.

Creek, Kenneth O.; and Leiby, David W., to United States of America, Atomic Energy Commission. Apparatus for checking distortion of a reactor fuel element. 3,475,825, 11-4-69, Cl. 33-174.

Creelman, Raymond C.Comfort device for foot stirrups of physician's examining table. 3,452,978, 7-1-69, Cl. 269-328.

Cregeen, William George, to International Telephone and Telegraph Corporation. Telephone subscriber set. 3,483,333, 12-9-69, Cl. 179-100.

Cregier Electrical Mfg., Co.: *See—*
Schubert, Paul E., 3,458,768.

Cregier, Raymond W. Band mounting clip. 3,441,987, 5-6-69, Cl. 24-271.

Creighton, John H.; Frinkmeyer, Francis M.; and Hanser, Paul E., to Deere & Company. Scraper implement. 3,450,213, 6-17-69, Cl. 172-785.

Creighton, Stephen Mark; and Wood, John Charles T., to Canadian Patents and Development Limited. Continuous nitric acid oxidation of coal. 3,468,943, 9-23-69, Cl. 260-523.

Creighton, Stephen M.: *See—*
Miller, Robert B.; Creighton, Stephen M.; and Raczuk, Taras W.,3,464,877.

Creith, Lou C.: *See—*
Daniels, Frank J.; and Creith, Lou C.,3,474,931.

Crellin, Edwin W.: *See—*
Gehring, Arthur J.; Gardner, Henry J.; Braxton, James L.; and Crellin, Edwin W.,3,465,866.

Crellin, Peter Lewis, to Sylvania Electric Products, Inc. Electron tube socket with spark gap. 3,466,492, 9-9-69, Cl. 313-331.

Crellin, Peter Lewis, to Sylvania Electric Products, Inc. Automatic switching control circuit. 3,476,953, 11-4-69, Cl. 307-125.

Cremer, Frits, to Blazon, Inc., mesne. Apparatus for molding hollow articles from a synthetic resin. 3,454,988, 7-15-69, Cl. 18-26.

Cremer, Gottfried, to Fetok GmbH. Tunnel kiln for firing ceramics. 3,471,135, 10-7-69, Cl. 263-28.

Cremer, Gottfried; Behrens, Heinz; and Schneider, Paul, to Fetok GmbH. Kiln operation. 3,485,900, 12-23-69, Cl. 263-52.

Cremer, Joseph: *See—*
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich,3,433,586.
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich,3,464,786.
Kern, Winfried; Cremer, Joseph; and Harnisch, Heinz,3,476,510.

Cremona, Angelo. Device for adjustably spacing the cutter blade and pressure bar in a rotary veneer cutting apparatus. 3,473,585, 10-21-69, Cl. 144-213.

Crenne, Noel: *See—*
Achard, Rene Victor Julien; and Crenne, Noel,3,437,696.
Brunie, Jean Claude; and Crenne, Noel,3,479,394.

Crenshaw, David, deceased0 (by Crenshaw, Helene M.; sole heir), to Jaylis Industries, Inc., mesne. Process for forming plastic objects. 3,454,693, 7-8-69, Cl. 264-151.

Crenshaw, Helene M.: *See—*
Crenshaw, David,3,454,693.

Crenshaw, Richard D.; and Saddoris, Ronald S., to Lockheed Aircraft Corporation. Retention force gage. 3,420,090, 1-7-69, Cl. 73-9.

Crenshaw, Ronnie R., to Bristol-Myers Company. Isothiazole synthesis. 3,471,507, 10-7-69, Cl. 260-302.

Crenshaw, Walter J.; Hicks, Hoke S.; and Oakes, Efton O., to Riegel Textile Corporation. Selvage-forming apparatus for double fabric looms. 3,463,199, 8-26-69, Cl. 139-54.

Crepeau, Melvin J., to La Pine Brothers, Inc. Fish deheading machine. 3,461,485, 8-19-69, Cl. 17-63.

Crepinsek, Alois. Fixture for drilling key recesses. 3,457,829, 7-29-69, Cl. 90-13.05

Crescent Metal Products, Inc.: *See—*
Baggott, George T., 3,428,187.

Crescenzi, Armand A.: *See—*
Claff, Clarence Lloyd; and Crescenzi, Armand A.,3,482,575.

Crespin, George T. F.; Roycroft, Donald M.; and Price, Colin D., to Shell Oil Company. Method and apparatus for measuring cloud point temperatures. 3,447,358, 6-3-69, Cl. 73-17.

Crespin, George T. F.: *See—*
Livingston, Leslie D.; Rowland, John K.; and Crespin, George T. F.,3,440,863.

Cress, Keith E. Archery bow torque reducing device. 3,468,297, 9-23-69, Cl. 124-24.

Cress, Vernor B., Jr.; and Schmidt, Jack W., to Tamer Electronics Industries, Inc. Offset transition control system for a traffic controller. 3,483,508, 12-9-69, Cl. 340-40.

Cressey, John R.; and Cote, Charles E., to United States of America, National Aeronautics and Space Administration. Display for binary characters. 3,437,874, 4-8-69, Cl. 315-24.

Cresswell, Roger A., to Rolls-Royce Limited. Nozzle assembly. 3,434,290, 3-25-69, Cl. 60-232.

Cresswell, Roger Anthony: *See—*
Kitson, George Samuel; and Cresswell, Roger Anthony,3,424,383.

Cresswell, Ronald M.; and Schnapper, Melvin, to Burroughs Wellcome & Co. (U.S.A.) Inc.Preparation of 4-hydroxy-pyrazolo[3,4-d] pyrimidine. 3,487,083, 12-30-69, Cl. 260-256.4

Crest Engineering, Inc.: *See—*
Maher, Joseph L., 3,468,238.

Crest Ultrasonics Corp.: *See—*
Cook, Edward G., 3,433,462.

Crestwave Offshore Services, Inc.: *See—*
Branham, Donald R.; Selfe, Richard J.; and Hester, Ray W., Jr., 3,477,235.

Cretaz, Franco: *See—*
Cerutti, Giovanni; and Cretaz, Franco,3,481,521.

Crete, Charles A.: *See—*
Jayko, Michael E., 3,448,277.

Cretella, Biagio A.: *See—*
Babusci, Louis D.; Cretella, Biagio A.; Feder, David O.; and Koontz, Donald E.,3,434,883.

Cretin Maitenaz, Bernard, to Societe des Lunetiers Cottet, Poichet, Temkine & Cie. Optical apparatus for use in fitting spectacles on patient. 3,454,331, 7-8-69, Cl. 351-5.

Creuels, Frans H.: *See—*
Fontein, Freerk J.; Loonen, Hendrik E.; and Creuels, Frans H.,3,447,327.

Creutz, Edward C., to Gulf General Atomic Incorporated, mesne. Centrifugal molecule separator. 3,460,318, 8-12-69, Cl. 55-17.

Creveling, Marion A., to Pietkiewicz, Eugene R. Building panel. 3,420,027, 1-7-69, Cl. 52-529.

Crew, Orville F.; Gardner, Verl L.; and Gibson, Samuel H., to McDonnell Douglas Corporation, mesne. Insertion tool and follower. 3,460,229, 812-69, Cl. 29-203.
Crewse, John L.: *See—*
Becker, Kenneth G.; and Crewse, John L.,3,463,458.
Cricchi, James R., to Westinghouse Electric Corporation. Logic circuit utilizing breakdown diodes with different breakdown voltages. 3,430,065, 2-25-69, Cl. 307-215.
Cricchi, James R.; and Rachal, Francis, to Westinghouse Electric Corporation. Tunable signal translation system using semiconductor drift field delay line. 3,427,559, 2-11-69, Cl. 330-21.
Cricchi, James R.; White, Marvin H.; and McLouski, Raymond M., to Westinghouse Electric Corporation. Integrated complementary MOS type transistor structure and method of making same. 3,447,046, 5-27-69, Cl. 317-235.
Crichfield, Paul D. Machine for picking fruit from trees. 3,464,195, 9-2-69, Cl. 56-328.
Crickmer, Charles D. Polish rod grip clamp. 3,475,798, 11-4-69, Cl. 24-249.
Criger, Robert O. Publication layout guide. 3,479,752, 11-25-69, Cl. 35-53.
Crignon, Jacques; and Delcoustal, Jean, to Societe Generale des Produits Refractaires. Apparatus for vertical extraction of material. 3,469,721, 9-30-69, Cl. 214-18.
Crihfield, Richard P.; and Dodge, Harry G., to Crawford Fitting Company. Tube clamp for a tube bending tool. 3,433,042, 3-18-69, Cl. 72-159.
Crile, Eugene E.: *See—*
Thomas, Paul M.; Wright, Lawrence W.; Crile, Eugene E.; Tolleson, Leon H.; and Parmer, Jesse N.,3,471,036.
Crile, Vaughn W.: *See—*
Giconi, Renell A., 3,424,144.
Criley, Ronald L.: *See—*
Frost, Richard H.; Criley, Ronald L.; Laliberte, George A.; and Maschi, Angelo P.,3,425,739.
Crim, Elmo Parker. Strip material applicator. 3,445,314, 5-20-69, Cl. 156-521.
Crimm, Elvie E. Self-loading and unloading litter spreader. 3,465,970, 9-9-69, Cl. 239-651.
Crimmins, David J.; and Breakfield, Joseph W., to Thomas & Betts Corporation. Method for making memory storage units. 3,465,432, 9-9-69, Cl. 29-604.
Criner, Gaspard X., Jr.: *See—*
Garibian, Sarkis K.; and Criner, Gaspard X., Jr.,3,475,522.
Cripe, Alan R., to United Aircraft Corporation. Articulated car single axle truck. 3,424,105, 1-28-69, Cl. 105-4.
Cripe, Alan R., to United Aircraft Corporation. Resilient stabilizing railway truck assembly. 3,433,177, 3-18-69, Cl. 105-199.
Cripe, Maxwell L., to Bendix Corporation, The. Dual controlled servomotor. 3,460,439, 8-12-69, Cl. 91-427.
Cripe, Maxwell L.; and Abbott, Malcolm K., to Bendix Corporation, The. Lubricated pivot for servomotor. 3,486,389, 12-30-69, Cl. 74-102.
Crippen, Henry O. Hot pipe bending apparatus and method. 3,456,468, 7-22-69, Cl. 72-34.
Crippen, Peter; and Evans, Arthur James, to Distillers Company (Carbon Dioxide) Limited, The, mesne. Fluid dispensing apparatus. 3,455,486, 7-15-69, Cl. 222-61.
Crippen, Peter; and Evans, Arthur James, to Distillers Company (Carbon Dioxide) Limited, The, mesne. Fluid dispensing apparatus. 3,455,487, 7-15-69, Cl. 222-76.
Crisafulli, Angelo J.; and Skinner, Warren. Movable surface game. 3,479,033, 11-18-69, Cl. 273-113.
Criscimagna, Tony N., to International Business Machines Corporation. Meta-cyclic command generator. 3,445,817, 5-20-69, Cl. 340-172.5
Crisera, Joseph E. Concealed door hinge. 3,425,766, 2-4-69, Cl. 312-294.
Crishal, Joan M.; and Sandstrom, James P., to TRW Semiconductors Inc. Fabrication of diffused junction semiconductor devices. 3,476,620, 11-4-69, Cl. 148-187.
Crisinel, Pierre: *See—*
Poignant, Pierre; and Crisinel, Pierre,3,484,230.
Crisler, Dale F., to Minnesota Mining and Manufacturing Company. Piezoelectric semiconductor acoustic wave signal device. 3,428,907, 2-18-69, Cl. 330-5.5
Crisp, Oris L. Vehicle grapple attachment. 3,422,975, 1-21-69, Cl. 214-147.
Criss, George H., to Dresser Industries, Inc. Refractory coated composite oxygen lance. 3,430,940, 3-4-69, Cl. 266-35.
Criss, George H., to Dresser Industries, Inc. Lightweight refractory brick and aggregate. 3,436,238, 4-1-69, Cl. 106-64.
Criss, Jeremy F. Human waste disposal system. 3,457,567, 7-29-69, Cl. 4-132.
Crist, Earl E.; and Furry, Lyman B. Plastic coating applicator for corrugated cardboard. 3,460,511, 8-12-69, Cl. 118-69.
Crist, Elmer E., to Beloit Corporation. Rotary steam joint and condensate scavenger therefor. 3,449,839, 6-17-69, Cl. 34-124.
Crist, Joseph G.: *See—*
Baum, Werner H.; Crist, Joseph G.; and Nagle, Elliott V.,3,428,414.
Crist, Joseph G.; Manganaro, Carl R.; and Nagle, Elliott V., to United States Steel Corporation. Molding composition comprising melamine- formaldehyde plastic/coal tar distillate. 3,455,852, 7-15-69, Cl. 260-17.3
Crist, Ralph P., to United States of America, Navy. Mechanical pressure sensor-recorder. 3,454,955, 7-8-69, Cl. 346-72.
Cristina, Joseph F.: *See—*
Salzer, George W.; Derr, Chester B.; and Cristina, Joseph F.,3,421,615.
Cristy, Nicholas G.: *See—*
Johnson, David Bruce; Moro, Daniel; and Cristy, Nicholas G.,3,420,187.
Criswell, Angie F.: *See—*
Michaelson, Joseph B.; and Criswell, Angie F.,3,483,289.
Critchell, Dean J., to Eastman Kodak Company. Method of making a dialyzing element. 3,485,902, 12-23-69, Cl. 264-23.
Critcher, John L.: *See—*
Barr, Irwin R.; and Critcher, John L.,3,453,763.
Barr, Irwin R.; and Critcher, John L.,3,476,048.
Critcher, John L., to AAI Corporation. Underwater projectile. 3,434,425, 3-25-69, Cl. 102-92.1
Critchfield, Frank E.; and Whitman, Robert D., to Union Carbide Corporation. Urethane foams. 3,457,200, 7-22-69, Cl. 260-2.5
Crites, Jack E.: *See—*
Charlton, Thomas; and Crites, Jack E.,3,457,442.
Crites, Lucile Wells: *See—*
Crites, Virgil C., 3,477,930.
Crites, Nelson A., to Battelle Development Corporation, The. Apparatus for measuring esophageal motility. 3,480,003, 11-25-69, Cl. 128-2.
Crites, Virgil C., to Crit Lucile Wells. Method and system for preventing electrolytic corrosion of pipes. 3,477,930, 11-11-69, Cl. 204-147.
Critides, Charles G.; Scordato, Emil A.; and Hartnett, John J., to Automation Tech..ology, Inc. Shearing apparatus for rolled metal forms. 3,483,781, 12-1 59, Cl. 83-168.
Crits, George John, to Crane Co. Method for scrubbing ion exchange resins. 3,455,819, 7-15-69, Cl. 210-32.
Crittenden, Geoffrey H.: *See—*
Zweifel, Charles H.; Crittenden, Geoffrey H.; and Young, Robert R.,3,486,641.
Crittenden, William B.; and Utara, Susan T., to Westinghouse Electric Corporation. Time discriminator. 3,475,062, 10-28-69, Cl. 307-232.
C.R.O. Engineering Co., Inc.: *See—*
Kleine, Rudolph W.; and Wirth, Jon C., 3,434,212.
Wirth, Jon C., 3,465,219.
Crocella, Paolo; and Sirtoli, Mario, to Montecatini Edison S.p.A. Road signal fixture. 3,440,996, 4-29-69, Cl. 116-63.
Crochowski, Raymond John: *See—*
Ryan, Charles Francis; and Crochowski, Raymond John,3,426,101.
Crocker, Bryant W.; and Schmid, Frederick, to United States of America, Army. Method for eliminating hot tear cracks in castings. 3,433,282, 3-18-69, Cl. 164-53.
Crocker, Henry Peter: *See—*
Ennis, Brian Colwell; and Crocker, Henry Peter,3,436,395.
Crocker, Henry Peter; and Raper, William George Clive, to Monsanto Chemicals (Australia) Limited. Production of 2-substituted benzoxazoles. 3,452,036, 6-24-69, Cl. 260-307.
Crocker, Jeremy F., to Webb Associates, Inc. Liquid cooled garment. 3,430,688, 3-4-69, Cl. 165-46.
Crocker, Richard E.; Kaplan, Martin L.; and Hayes, Charles H., to Atlantic Richfield Company. Transition metal salts of alkylbenzene sulfonic acids for selective oxidation reactions. 3,442,954, 5-6-69, Cl. 260-592.
Crocker, Richard E.; and Kuenn, Henry J., to Atlantic Richfield Company. Process for preparing alkyl sulfonate. 3,463,809, 8-26-69, Cl. 260-513.
Crocker, William R. Tire treatment device. 3,427,215, 2-11-69, Cl. 156-408.
Crockett, Peter N.; Hackl, Frank J.; and Stafford, Thomas S., to International Business Machines Corporation. Circuits for handling intentionally mutated information with verification of the intentional mutation. 3,465,132, 9-2-69, Cl. 235-153.
Crockett, Richard J.; and Sedlack, George, Jr., to General Electric company. Apparatus for sequentially monitoring electrical voltages including a capacitor transfer system and marginal prediction means. 3,453,539, 7-1-69, Cl. 324-73.
Crockett, Sydney R., to United States of America, Navy. Missile booster pressure control mechanism. 3,457,861, 7-29-69, Cl. 102-49.4
Crockett, William P., Jr. Garment hanger. 3,443,289, 5-13-69, Cl. 24-137.
Crockford, Joseph R., to Kimberly-Clark Corporation. Method for fabricating compressed and folded absorbent tampons. 3,469,286, 9-30-69, Cl. 19-144.5

Croft, Arthur E.; and Moodie, Ernest W., to Square D Company. Embossed zigzag resistor grid. 3,453,585, 7-1-69, Cl. 338-284.
Croft, Charles P.; and Long, William W., III, to Pangborn Corporation, The. Liquid nitrogen deflashing apparatus. 3,432,968, 3-18-69, Cl. 51-8.
Croft, Harry P., to Contemporary Research, Inc. Solder composition. 3,467,765, 9-16-69, Cl. 174-94.
Croft, John C., to New England Realty Co. Pressure testing apparatus. 3,459,229, 8-5-69, Cl. 138-90.
Croft, John C., to New England Realty Co. Pipe support. 3,467,143, 9-16-69, Cl. 138-113.
Croft, Philip: *See—*
Travis, Alfred; and Croft, Philip,3,476,371.
Crofts, Duane E.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,431,149.
Croix, Louise S.: *See—*
Krantz, John C., Jr.; and Croix, Louise S.,3,483,298.
Croix, Louise S.; and Szur, Alex J., to Air Reduction Company, Incorporated. Halomethyl fluoroisopropyl ethers as anesthetic agents. 3,476,860, 11-4-69, Cl. 424-342.
Croll, Donald C.: *See—*
Hendrickson, Thomas A.; and Croll, Donald C.,3,464,265.
Croll-Reynolds Company, Inc.: *See—*
Reynolds, James T., 3,423,950.
Cromer, Charles F.; and Wolf, Charles B., to Westinghouse Electric Corporation. Movable bridging contact structure for power circuit interrupters. 3,441,692, 4-29-69, Cl. 200-48.
Cromer, Oscar M.: *See—*
Calhoon, Charles D.; and Cromer, Oscar M.,3,452,352.
Cromer, Theodore L.: *See—*
Brudi, Ronald A.; and Cromer, Theodore L.,3,474,985.
Cromie, Harry W., to Surgitool Incorporated. Prosthetic heart valve. 3,464,065, 9-2-69, Cl. 3-1.
Cromie, Harry W., to Surgitool Inc. Magnetic surgical drape. 3,483,494, 12-9-69, Cl. 335-303.
Crompton & Knowles Corporation: *See—*
Barbod, Hooshang, 3,445,895.
Bergstrom, Carl P., 3,425,457.
Brinkema, Robert Jacob, 3,425,884.
Bryan, Richard C., 3,450,094.
Harmon, Allen; and Gause, Benjamin, 3,430,721.
Hertz, Gerald, 3,485,729.
Kronoff, Clarence R., 3,456,692.
Mosher, Melville C., 3,460,583.
Mosher, Melville C., 3,460,584.
Nugarus, Anthony R., 3,462,085.
Nugarus, Anthony R., 3,468,286.
Wueger, Karl Willi, 3,461,919.
Yankee, Francis E., 3,458,138.
Crompton & Knowles-Malimo, Inc.: *See—*
Klaeui, Hans J., 3,461,693.
Crompton, George. Electric locomotive. 3,479,967, 11-25-69, Cl. 105-53.
Crompton, George. Low slung railroad car. 3,479,968, , Cl. 105-238.
Crompton Parkinson Limited: *See—*
Sills, Frederick Arthur, 3,439,273.
Crompton, Thomas E., to Monsanto Company. Method for producing fibers. 3,429,953, 2-25-69, Cl. 264-8.
Cromwell, John E.; and Robson, Arthur G., to Koppers Company, Inc. Process for directly bonding polytetrafluoro- ethylene to metal adhesive composition used there- for and laminated product thereof. 3,421,972, 1-14-69, Cl. 161-189.
Cromwell Paper Company, The: *See—*
Ruzevick, Peter M.; Adams, Ronald F.; and Reynolds, Albert H., 3,425,954.
Cron, Martin John; and Smith, Robert Edward, to Bristol-Myers Company. Kasuganobiosamine dimedone derivatives and salts thereof. 3,480,614, 11-25-69, Cl. 260-210.
Cronan, Michael D.: *See—*
Upton, Douglas J.; and Cronan, Michael D.,3,467,279.
Crone, Alfred F., to Acme Highway Products Corporation. Adjustable bridge for sealing machines. 3,469,511, 9-30-69, Cl. 94-51.
Crone, John M., Jr.: *See—*
Brandenburg, John T.; Crone, John M., Jr.; and Suggitt, Robert M.,3,476,821.
Estes, John H.; and Crone, John M., Jr.,3,440,300.
Cronert, Wolfgang, to Martin & Pagenstecher Aktiengesellschaft, and Rheinstahl Export Industriealagen GmbH. Hot blast stove. 3,473,793, 10-21-69, Cl. 263-19.
Cronig, Alvin; and Gruber, Francois R., to Itek Corporation. Photographic processing apparatus. 3,485,160, 12-23-69, Cl. 95-90.
Cronig, Alvin; McCarthy, Joseph V.; and Gruber, Francois, to Itek Corporation. Film processing reagent container, 3,485,348, 12-23-69, Cl. 206-56.
Cronig, Alvin: *See—*
Robin, Gilbert J.; Cronig, Alvin; and Gruber, Francois R.,3,472,138.
Cronin, Cornelius P., Sr. Bathtub cover. 3,451,069, 6-24-69, Cl. 4-173.
Cronin, David V., to Dynamics Research Corporation. Electro-optical encoder having fiber optic coupling. 3,483,389, 12-9-69, Cl. 250-219.
Cronin, Edward W.; and Weber, Walter O., said Cronin assor to Hercules Incorporated, and said Weber assor to Haveg Industries, Inc. Transfer molding of foam. 3,437,722, 4-8-69, Cl. 264-48.
Cronin, Frederick W.: *See—*
Meinhardt, Johannes; and Schubert, Paul, 3,476,628.
Cronin, George R.: *See—*
Wilson, Oran W.; and Cronin, George R.,3,471,324.
Cronin, John: *See—*
Rodriguez, Antonio R.; and Cronin, John,3,456,313.
Cronite Co., Inc., The: *See—*
Steffens, Robert N., 3,472,163.
Cronkhite, Paul W., to Monsanto Company. Retaining trays for semiconductor wafers and the like. 3,482,682, 12-9-69, Cl. 206-65.
Cronquist, William E.: *See—*
Bailey, Francis M.; and Cronquist, William E.,3,484,687.
McDonald, William J.; Bynum, Edward B., Jr.; and Cronquist, William E.,3,425,515.
Cronstedt, Val, to Continental Aviation and Engineering Corporation. Variable compression ratio piston assembly. 3,450,111, 6-17-69, Cl. 123-78.
Crook, Edward J., Jr., to American Hoist & Derrick Company. Coupling link. 3,453,822, 7-8-69, Cl. 59-85.
Crook, Gaines Morton. Gear train. 3,468,191, 9-23-69, Cl. 74-681.
Crook, Hubert D., to Ethyl Corporation. Swimming pool cover. 3,423,767, 1-28-69, Cl. 4-172.
Crook, Leonard Robert; Jansen, Alexander Bertus Arnold; Spencer, Kenneth Eric Vincent; and Watson, David Harris, to Wyeth, John, & Brother Limited, mesne. 4-(o-Benzoylsulfimido) lower fatty amines. 3,457,272, 7-22-69, Cl. 260-301.
Crook, Troy N., to Esso Production Research Company. Apparatus for determining the time phase relationship of electrical signals. 3,445,642, 5-20-69, Cl. 235-181.
Crooke, Robert Curtis; and Koot, Nick, to Global Marine Inc. Drilling apparatus. 3,426,855, 2-11-69, Cl. 173-57.
Crooks, Donald D.; Kelsey, Royal W.; and Sumsion, Henry T., to United States of America, Navy, mesne. Brazing method. 3,425,116, 2-4-69, Cl. 29-472.7
Crooks, Donald D.: *See—*
Kelsey, Royal W.; Crooks, Donald D.; and Sumsion, Henry T.,3,436,253.
Crookshanks, Paul Edward; and Altmanshofer, Robert Dale, to RCA Corporation. Service aid for color television receiver. 3,461,225, 8-12-69, Cl. 178-5.4
Crookston, James A.; and Gritton, William R., to Green, A. P., Refractories Co., mesne. Coke bonded basic refractory. 3,436,237, 4-1-69, Cl. 106-58.
Crookston, James A.; and Gritton, William R., to Green, A. P., Refractories Co. Basic refractory for oxygen converters. 3,446,639, 5-27-69, Cl. 106-56.
Croon & Lucke Maschinenfabrik GmbH: *See—*
Lucke, Ernst, 3,456,890.
Cropland Industries, Inc.: *See—*
Siebert, Louie P., 3,465,766.
Cropper, Wendell P.: *See—*
Kapff, Sixt Frederick; and Cropper, Wendell P.,3,453,891.
Cropper, Wendell P., to Standard Oil Company (Indiana). Radiation sensitive apparatus for analyzing gas. 3,459,947, 8-5-69, Cl. 250-218.
Crosby, Arthur O., to Telex Corporation, The. Hearing aid coupling. 3,431,370, 3-4-69, Cl. 179-182.
Crosby, David W., to British Nylon Spinners Limited. Needled nonwoven pile fabrics and method of making same. 3,476,636, 11-4-69, Cl. 161-67.
Crosby, Noble W.; Clarke, Gordon J.; and Walker, Robert C., to Lacal Industries Limited. Spacer damper. 3,454,705, 7-8-69, Cl. 174-42.
Crosby, Noble W.; Walker, Robert C.; and Clarke, Gordon J., to Lacal Industries Limited. Spacer damper. 3,474,184, 10-21-69, Cl. 174-42.
Crosby, Philip S., to Tektronix, Inc. Oscillographic instrument for separately viewing portions of an input signal. 3,457,505, 7-22-69, Cl. 324-121.
Crosby, Philip S., to Tektronix, Inc. Balanced modulator-demodulator circuit with negative feedback in switching element. 3,483,488, 12-9-69, Cl. 332-43.
Crosby Research, Inc.: *See—*
Mabbett, John C., 3,437,973.
Crosby, William Holmes. Urinal device with disposable container. 3,419,913, 1-7-69, Cl. 4-110.
Croseck, Hans-Henning; and Grohmann, August, to Hydraulik G.m.b.H. Hydraulic metal tube press. 3,468,152, 9-23-69, Cl. 72-265.
Crosfield Electronic Limited: *See—*
Astley, Edward T.; King, Daniel L.; and Gold, Daniel, 3,439,176.

Crosfield Electronics Limited: *See—*
Astley, Edward Thomas, 3,450,014.
Parker, Barry Norman, 3,461,427.
Crosman Arms Company, Inc.: *See—*
Vadas, John F.; and Joslyn, Edward P., 3,463,136.
Crosman, Dorland L.: *See—*
Bonanno, Joseph L.; and Crosman, Dorland L.,3,423,874.
Bonanno, Joseph L.; and Crosman, Dorland L.,3,425,153.
Crosman, Dorland L.; See, Thomas E.; and Villasana, Armando P., to Mattel, Inc. Doll holder. 3,459,294, 8-5-69, Cl. 206-45.19
Cross, Alexander D.: *See—*
Beard, Colin C.; and Cross, Alexander D.,3,438,977.
Beard, Colin C.; and Cross, Alexander D.,3,457,285.
Beard, Colin C.; and Cross, Alexander D.,3,478,066.
Cross, Alexander D., to Syntex Corporation. Preparation of 1,3,5(10),9(11) steroids and novel intermediates thereof. 3,423,405, 1-21-69, Cl. 260-239.57
Cross, Alexander D., to Syntex Corporation. Tetrahydronaphthalene derivatives. 3,429,888, 2-25-69, Cl. 260-294.7
Cross, Alexander D., to Syntex Corporation. Furano- [4'5';6,7] androstane and pregnane series. 3,468,877, 9-23-69, Cl. 260-239.5
Cross, Alexander D., to Syntex Corporation. Tetrahydropyranyl and tetrahydrofuranyl esters of morphine and morphinans. 3,476,757, 11-4-69, Cl. 260-268.
Cross, Alexander D.; Edwards, John A.; and Berkoz, Belig, to Syntex Corporation. Oxygen containing heterocyclic ethers. 3,429,899, 2-25-69, Cl. 260-345.7
Cross, Alexander D.; and Fried, John H., to Syntex Corporation. Novel androstane and 19-norandrostane steroidal esters and their preparation. 3,481,957, 12-2-69, Cl. 260-397.4
Cross, Alexander D.; and Fried, John H., to Syntex Corporation. Bicyclo[2.2.2]octane-1-carboxylate esters of Δ^4- pregnene corticoid steroids. 3,484,436, 12-16-69, Cl. 260-239.55
Cross, Alexander D.; and Fried, John H., to Syntex Corporation. Bicyclo[2.2.2.] octane-1-carboxylate carbonate esters of estrogenic steroids. 3,484,465, 12-16-69, Cl. 260-397.5
Fried, John H.; and Cross, Alexander D.,3,423,403.
Cross, Alexander; and Fried, John H., to Syntex Corporation. Bicyclo[2.2.2]octane-1-carboxylate esters of progestational steroids. 3,485,853, 12-23-69, Cl. 260-397.4
Cross and Jackson Limited: *See—*
Maddock, Owen Richard; and Cross, Frederick George, 3,483,939.
Cross, Anthony Leonard, to Bell & Howell Company, mesne. Engine testing apparatus. 3,472,066, 10-14-69, Cl. 73-116.
Cross, Donald W. Multi-point ignition system for shaped charges. 3,443,518, 5-13-69, Cl. 102-24.
Cross, Earl G., to Turco Manufacturing Company. Swing set construction. 3,427,024, 2-11-69, Cl. 272-87.
Cross, Earl G., to Turco Manufacturing Company. Air spray gun for electrostatic coating systems. 3,448,925, 6-10-69, Cl. 239-15.
Cross, Edward A., to Texaco Inc. Low free alkali procedure for making greases. 3,475,336, 10-28-69, Cl. 252-41.
Cross, Frederick George: *See—*
Maddock, Owen Richard; and Cross, Frederick George,3,483,939.
Cross, George Abraham, to American Cyanamid Company. Preparation of gelled blasting agents comprising nitric acids, fuels, and gelling agents. 3,423,258, 1-21-69, Cl. 149-19.
Cross, George Abraham; and Rishel, James Paul, to American Cyanamid Company. Gelled nitric acid blasting agent. 3,471,347, 10-7-69, Cl. 149-56.
Cross, George Abraham: *See—*
Simpson, Robert Alan; Cross, George Abraham; and Rishel, James Paul,3,454,438.
Simpson, Robert Alan; Rishel, James Paul; and Cross, George Abraham,3,423,257.
Cross, Gerald: *See—*
Steghart, Fritz Ludwig Felix; Cross, Gerald; Kershaw, Peter Leslie; Oliver, Trevor Exelby; and Farrant, Leonard George,3,424,377.
Cross, Gordan G.: *See—*
Callahan, James L.; and Cross, Gordan G.,3,444,234.
Cross, James Martin; Metzger, Sidney H., Jr.; and Campbell, Clyde D., to Mobay Chemical Company. Polyurethanes from hexahydrotoluene diisocyanates. 3,454,505, 7-8-69, Cl. 260-2.5
Cross, James M. Mobay Chemical Company Isomeric mixtures of methylcyclohexylene diamine. 3,424,792, 1-28-69, Cl. 260-563.
Cross, James M., to Mobay Chemical Company. Reduction of tolylene diamines. 3,445,516, 5-20-69, Cl. 260-563.
Cross, James M.; Campbell, Clyde D.; and Metzger, Sidney H., to Mobay Chemical Company. Preparation of cycloaliphatic diamines free of o- diamines. 3,450,759, 6-17-69, Cl. 260-563.
Cross, James M.; and Metzger, Sidney H., to Mobay Chemical Company. Preparation of isocyanates from isocyanic acid and olefins. 3,471,542, 10-7-69, Cl. 260-453.
Cross, James V.: *See—*
Beall, Horace A., Jr.; Cross, James V.; and Gow, Kenneth P.,3,458,709.
Cross, Laurence Allan, Jr., to Randomatic Data Systems, Inc. Apparatus for the selection of coded elements filed at random. 3,486,617, 12-30-69, Cl. 209-80.5
Cross, Lee A.: *See—*
Franken, Peter A.; Cross, Lee A.; and Cross, Lloyd G.,3,463,591.
Cross, Lloyd G.: *See—*
Franken, Peter A.; Cross, Lee A.; and Cross, Lloyd G.,3,463,591.
Cross, Robert A.: *See—*
Bixler, Harris J.; Cross, Robert A.; and Markley, Lita L.,3,475,358.
Cross, Roland Claude. Cylinder mountings. 3,452,648, 7-1-69, Cl. 92-161.
Cross, Walter George, to Rolls-Royce Limited. Device for protecting a gas turbine engine com- pressor against the effects of surging. 3,439,497, 4-22-69, Cl. 60-39.28
Crossen, William P.; and Yarrison, Walter W., to USM Corporation. Molding with tread inserts. 3,439,384, 4-22-69, Cl. 18-36.
Crosser, Ralph W., Jr.: *See—*
Fick, Hans H.; and Crosser, Ralph W., Jr.,3,471,010.
Crosslen, Louis John, to Mayer, Frank, & Associates, Inc. Theftproof merchandise display. 3,478,893, 11-18-69, Cl. 211-165.
Crossley, Henry Morton; and Bailey, Percival William, to Crossley, Henry (Packings) Limited. Projectile driving bands. 3,439,620, 4-22-69, Cl. 102-93.
Crossley, Henry (Packings) Limited: *See—*
Crossley, Henry Morton; and Bailey, Percival William, 3,439,620.
Crossley, Neville Stanton: *See—*
Broome, Arthur William James; Crossley, Neville Stanton; and Jones, William Glynne,3,466,370.
Crossley, Robert B. Electronic snore depressor. 3,480,010, 11-25-69, Cl. 128-132.
Crossman, Richard L. Synthetic gear ratio. 3,482,471, 12-9-69, Cl. 74-786.
Crosswhite, Henry M., Jr. Optical prismatic phomboid filter device. 3,473,865, 10-21-69, Cl. 350-169.
Crosthwait, David N., Jr., to Dunham-Bush, Inc. Tool for adjusting valves. 3,478,625, 11-18-69, Cl. 81-3.
Croswhite, Howard Linn, to Ford Motor Company. Snap action flyweight governor for developing a speed sensitive pressure signal. 3,431,929, 3-11-69, Cl. 137-56.
Croswhite, Howard L., to Ford Motor Company. Multiple ratio power shift transmission mechanism. 3,424,033, 1-28-69, Cl. 74-730.
Crothers, James W.; and Satterlee, Frederick R., to Thomas Industries Inc. Anvil device. 3,456,483, 7-22-69, Cl. 72-478.
Crotti, Argento, to Aziende Colori Nazionali Affini ACNA S.p.A. 1,5(and 1,8)-Dihydroxy-8(and 5)-nito-4- nitroanilinoanthraqoinones. 3,453,294, 7-1-69, Cl. 260-380.
Crotti, Argento; and Merlo, Fabrizio, to Aziende Colori Nazionali Affini ACNA S.p.A. Monoazo triazine containing dyestuffs. 3,459,729, 8-5-69, Cl. 260-153.
Crouch, Alfred E.; and Beaver, Ruby C., to American Machine & Foundry Company. Pipeline inspection apparatus for detection of longitudinal defects. 3,483,466, 12-9-69, Cl. 324-37.
Crouch, Arthur B.: *See—*
Cox, Jack Lamarr; and Crouch, Arthur B.,3,475,582.
Crouch, Donald W.; and Crowell, Robert, to General Electric Company. Vacuum-type circuit interrupter having brazed joints protected from weld-inhibiting constituent in contact structure. 3,430,015, 2-25-69, Cl. 200-144.
Crouch, Donald W.; and Kurtz, Donald R., to General Electric Company. High voltage vacuum device with improved means for inhibiting sparkover adjacent the edge of a tubular metal part. 3,469,049, 9-23-69, Cl. 200-144.
Crouch, Harold C., to Cleveland Technical Center, Inc. Braking system. 3,432,210, 3-11-69, Cl. 303-3.
Crouch, Robert T.; and Barger, Charles H., to Johns-Manville Corporation. Non-porous asbestos-reinforced plastic pipe. 3,460,581, 8-12-69, Cl. 138-141.
Crouch, Roy L.; and Cook, Paul A., to Texaco Inc. Process for preparing a grease composition containing synthetic oil as the sole lubricating oil component. 3,428,562, 2-18-69, Cl. 252-42.
Croucher, William C.; Estep, Willis F.; and Ross, Gilbert H., to Martin-Marietta Corporation. Match stepping camera and method for matching registration and reduction of stepped photographic images to existing patterns on semiconductors. 3,442,587, 5-6-69, Cl. 355-54.
Croucher, William C.: *See—*
Wilcox, Norman G.; Croucher, William C.; and Ramaley, Edward J.,3,449,541.
Croughan, James: *See—*
Weeks, Sidney Arthur; Taylor, Raymond Sidney; and Croughan, James,3,446,145.
Crounse Corporation: *See—*
Shelton, Russell S., 3,425,284.
Crouse, Parker E.: *See—*
Brush, Stanley E.; and Crouse, Parker E.,3,454,826.

Crouse, William G., to International Business Machines Corporation. Data transmission apparatus utilizing frequency shift keying. 3,432,616, 3-11-69, Cl. 178-66.
Crouse, William G., to International Business Machines Corporation. Variable frequency phase shift oscillator utilizing differential amplifiers. 3,482,188, 12-2-69, Cl. 331-135.
Crouse-Hinds Company: *See—*
Curtis, Richard F., 3,434,016.
Hall, William B., 3,433,941.
Jeffers, Walter K., 3,484,742.
Shavalier, Marion Fred, 3,463,913.
Spofford, Walter R.; and Davis, Morton G., 3,436,725.
Crouzet: *See—*
Feat, Jen, 3,467,781.
Jullien-Davin, Jean, 3,433,091.
Crouzet, Henri. False-twist apparatus. 3,473,313, 10-21-69, Cl. 57-77.45
Crouzet S.r.l.: *See—*
Davin, Jean Jullien, 3,449,699.
Crovatt, Lawrence W., Jr., to Monsanto Company. Polycarbonamides resistant to acid dyes and containing terminal naphthyl disulfonated radicals. 3,438,949, 4-15-69, Cl. 260-78.
Crovatt, Lawrence W., Jr., to Monsanto Company. Preparation of nylon with polyalkylene glycol diamine as additive. 3,454,534, 7-8-69, Cl. 260-78.
Crovatt, Lawrence W., Jr.; and Huffman, William A. H., deceased0 (by Huffman, Ernestine H.; executrix), to Monsanto Company. Polycarbonamides resistant to acid dyes. 3,440,226, 4-22-69, Cl. 260-78.
Crovatt, Lawrence W., Jr.: *See—*
Ballentine, James B.; and Crovatt, Lawrence W., Jr.,3,448,087.
Crovetti, Aldo J.; and Neundorf, Maynette V., to Abbott Laboratories. N-(Substituted-benzoyl) aminoaceto- and aminopropionitriles. 3,457,294, 7-22-69, Cl. 260-465.
Crovetti, Aldo J.; and Von Esch, Anne Mary, to Abbott Laboratories. 5-Aminooxadiazines. 3,468,884, 9-23-69, Cl. 260-244.
Crovetti, Aldo Joseph: *See—*
Horrom, Bruce Wayne; and Crovetti, Aldo Joseph,3,481,979.
Von Esch, Anne Mary; and Crovetti, Aldo J.,3,478,049.
Crow, Clifford O. Ladder supported container holder. 3,458,165, 7-29-69, Cl. 248-210.
Crow, Frank L. Cat tree. 3,479,990, 11-25-69, Cl. 119-1.
Crow, Howard M. Water borne vehicle. 3,434,452, 3-25-69, Cl. 115-70.
Crow, Morgan L.: *See—*
Tucker, Andrew J.; Kilgore, Marion D.; Crow, Morgan L.; and Simpson, Harry E.,3,460,616.
Crow, Stewart Ernest: *See—*
Saunders, James; and Crow, Stewart Ernest,3,442,628.
Crow, Thomas G., to United States of America, Army. Cryogenic switch. 3,453,446, 7-1-69, Cl. 307-98.
Crowder, James R.: *See—*
Brown, Earl J.; Crowder, James R.; and Karl, Raymond O.,3,434,940.
Crowder, Norman Frederic: *See—*
Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen,3,458,273.
Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen,3,476,504.
Crowder, Wyly Kenneth; and Murphy, Thomas A., to Docutel Corporation. Slidewalk apparatus and system. 3,485,182, 12-23-69, Cl. 104-25.
Crowdy, Stephen Henry; Farrington, John Alan; and Jeater, Roger Sidney Lockington, to Imperial Chemical Industries Limited. Herbicidal mixture of a 4,4' bipyridylium salt and thiourea. 3,449,110, 6-10-69, Cl. 71-92.
Crowe, Byron A.; and Corp, Robert S., to Wildwood Company. Method of making tubular seamless lace. 3,453,928, 7-8-69, Cl. 87-4.
Crowe, Curtis Wendell, to Dow Chemical Company, The. Method of lessening the inhibitory effects to fluid flow due to the presence of solid organic substances in a subterranean formation. 3,482,636, 12-9-69, Cl. 166-307.
Crowe, Curtis W.; and Duranleau, Roger G., to Dow Chemical Company, The. Cleaning by foam contact, and foam regeneration method. 3,436,262, 4-1-69, Cl. 134-10.
Crowe, Jack; and Wallis, Kenneth Arthur. Methods of shaping metal tubing and apparatus used therefor. 3,438,238, , Cl. 72-369.
Crowe, John E., to Amsted Industries Incorporated. Process of removing metal from slag-surfaced melt. 3,469,740, 9-30-69, Cl. 222-1.
Crowe, Kenneth R.; and Leiter, Howard A., to International Telephone and Telegraph Corporation. Cylinder with internal photosensitive coating and prism on outer surface for admitting light at an angle to be totally internally reflected. 3,445,709, 5-20-69, Cl. 313-102.
Crowe, Robert C.: *See—*
Herman, Walter H.; Ray, Walter S.; and Crowe, Robert C.,3,457,896.
Crowe, Talmadge L., to Baker Oil Tools, Inc. High temperature extension joint. 3,433,506, 3-18-69, Cl. 285-187.
Crowe-Gulde Cement Company: *See—*
Gulde, Charles James, 3,425,105.
Crowell, Charles J., Jr.; and Tinklepaugh, Kenneth N. Exothermic composition and method of use. 3,461,073, 8-12-69, Cl. 252-70.
Crowell Designs Inc.: *See—*
Davenport, William R.; and Davenport, Elmer T., 3,474,372.
Crowell, James Sheffield: *See—*
White, Charles Clayton; and Crowell, James Sheffield,3,422,043.
Crowell, Merton H., to Bell Telephone Laboratories, Incorporated. Multiple-image electron beam tube and color camera. 3,467,880, 9-16-69, Cl. 315-11.
Crowell, Merton H.; and Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Electron beam storage device employing hole multiplication and diffusion. 3,440,476, 4-22-69, Cl. 315-10.
Crowell, Merton H.; and Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Multiple readout electron beam device. 3,440,477, 4-22-69, Cl. 315-11.
Crowell, Merton H.; and Maydan, Dan, to Bell Telephone Laboratories, Incorporated. Acoustic devices. 3,483,942, 12-16-69, Cl. 181-0.5
Crowell, Merton H.; and Morton, Jack A., to Bell Telephone Laboratories, Incorporated. Cathode ray storage devices. 3,428,850, 2-18-69, Cl. 315-12.
Crowell, Robert: *See—*
Crouch, Donald W.; and Crowell, Robert,3,430,015.
Crowley, Francis X., to Crowley Hession Engineers. Process of making domes. 3,427,777, 2-18-69, Cl. 52-744.
Crowley, Francis X. Tank banding apparatus. 3,477,652, 11-11-69, Cl. 242-7.21
Crowley Hession Engineers: *See—*
Cowley, Francis X., 3,446,888.
Crowley, Francis X., 3,427,777.
Crowley, Richard P., to Abcor, Inc. Chromatographic columns. 3,422,605, 1-21-69, Cl. 55-386.
Crowley, Richard P., to Abcor, Inc. Method of and apparatus for chromatographic separations. 3,436,897, 4-8-69, Cl. 55-67.
Crowley, Richard P. Embossed plastic surface coverings and method of preparing same. 3,453,171, 7-1-69, Cl. 161-159.
Crowley, Richard P., to Abcor Inc. Chromatographic columns with partition elements therein. 3,453,811, 7-8-69, Cl. 55-386.
Crown Controls Corporation: *See—*
Dicke, Paul A., 3,471,760.
Pulskamp, Gerald S.; and Harshbarger, William E., 3,465,841.
Stammen, Harold A., 3,472,341.
Crown Cork & Seal Company, Inc.: *See—*
Beahm, Robert B.; and Grader, Jerome E., 3,474,815.
Ermer, Joseph W., Jr.; and Kesler, William C., 3,461,649.
Lohrer, Joseph Bernhard, 3,438,529.
Crown Cork & Seal Company, Incorporated: *See—*
Justis, Luther E., 3,460,589.
Crown Cork & Steel Company, Inc.: *See—*
Luviano, John J., 3,441,168.
Crown Radio Corporation: *See—*
Kobayashi, Masanaga, 3,436,662.
Crown Zellerbach Canada Limited: *See—*
Milligan, Frederick H., 3,467,335.
Naylor, Gordon J., 3,470,591.
Crown Zellerbach Corporation: *See—*
Anderson, Nils T.; and Hearon, William M., 3,420,734.
Bennett, Clifton F.; and Mac Gregor, Warren S., 3,452,100.
Cole, James B., 3,421,758.
Hartbauer, Ellsworth A.; Talbot, Alfred B.; and Weis, Rudolf R., 3,433,136.
Hartbauer, Ellsworth A.; and Weis, Rudolf R., 3,474,593.
McColl, Michael J., 3,430,839.
Rehr, Henry W., 3,421,655.
Sturges, Thomas B., 3,466,837.
West, William B.; and Henderson, John T., 3,445,329.
West, William B., 3,467,574.
Crownover, Lawrence T. Automatic cycling mechanism. 3,455,485, 7-15-69, Cl. 222-70.
Crownover, William S.: *See—*
Pruett, William T.; and Crownover, William S.,3,474,665.
Crowson, David H.: *See—*
Walker, Donald F.; Rice, Duane N.; Crowson, David H.; and Vachon, Reginald I.,3,470,873.
Crowson, Fred B.; and Groth, George S., to Bell Telephone Laboratories, Incorporated. Steerable regenerative repeater circuit. 3,435,142, 3-25-69, Cl. 178-73.
Crowther, Harold, to Lucas, Joseph, (Industries) Limited. Gear pumps. 3,476,055, 11-4-69, Cl. 103-126.
Croyle, Jack V., to Rexall Drug and Chemical Company. Mold ejection assemblable two-piece cap mold. 3,461,488, 8-19-69, Cl. 18-2.
Croyle, Jack V., to Imco Container Company, mesne. One-piece shaker closure. 3,467,288, 9-16-69, Cl. 222-480.

Croymans, Jacques Johannes Hendrik: *See—*
De Boer, Douwe Mindert; Boeman, Willem Freddrik; Croymans, Jacques Johannes Hendrik; and Kreutzelman, Harm,3,453,465.
Crozier, Harold E. Automatic gas detector. 3,471,264, 10-7-69, Cl. 23-255.
CRS-Crose International, Inc.: *See—*
Nelson, Jerome W.; and Sims, Eugene F., 3,461,264.
Crucible Inc.: *See—*
Cloran, Thomas S., 3,476,548.
Dulis, Edward J., 3,476,616.
Crucible Steel Castings Co., Division of Consolidated Foundries and Manufacturing Company: *See—*
Phillips, William J.; and Barron, Donald B., 3,426,832.
Crucible Steel Company of America: *See—*
Bomberger, Howard B., Jr., 3,433,626.
Bomberger, Howard B., Jr., 3,434,813.
Eckenrod, John J., 3,451,843.
Moskowitz, Arthur; Kovach, Curtis W.; and Wells, Ralph G., 3,437,478.
Moskowitz, Arthur; and Saltzman, Gilbert Allen, 3,455,681.
Vordahl, Milton B., 3,466,734.
Crucible Steel Corporation: *See—*
Thompson, Vernon R., 3,450,528.
Cruger, Robert W.; Cheslock, Edward P.; Moore, Wiley I.; and Murray, James J., to Bliss, E. W., Company. Apparatus for programming traffic flow path routes. 3,466,598, 9-9-69, Cl. 340-23.
Cruger, Robert W.; and Michelson, Anatol, to Bliss, E. W., Company. Universal starting bar. 3,429,366, 2-25-69, Cl. 164-274.
Cruger, Robert W.; Petransky, William E.; and Weiss, Melvin I., to Bliss, E. W., Company. Aircraft launching device. 3,433,438, 3-18-69, Cl. 244-63.
Cruickshank, David G.: *See—*
Brouwer, Charles W.; Cruickshank, David G.; and Tata, Raymond V.,3,480,128.
Cruickshank, Philip A., to FMC Corporation. Insect control methods and compositions. 3,453,362, 7-1-69, Cl. 424-84.
Cruickshank, Robert F., to Nip-Co Manufacturing, Inc. Soil sifter. 3,426,898, 2-11-69, Cl. 209-245.
Cruise, Thamo C.: *See—*
Steele, Richard K.; Cruise, Thamo C.; and Jang, Samuel W.,3,427,876.
Cruiziat, Paul: *See—*
Bichet, Georges; Cruiziat, Paul; Damay, Jean; and Frechet, Pierre Joseph,3,456,428.
Crum, Charles W., to Ampex Corporation. Electronic editing system for video tape recordings. 3,463,877, 8-26-69, Cl. 178-6.6
Crum, David L. Sliding closure lock. 3,486,781, 12-30-69, Cl. 292-262.
Crum, William N. Loading devices for carryalls. 3,445,943, 5-27-69, Cl. 37-9.
Crumb, Robert E. Treatment of residues of oil shale retorting for magnesium recovery. 3,455,796, 7-15-69, Cl. 204-70.
Crumley, Ernest W. Cargo ship construction. 3,434,445, 3-25-69, Cl. 114-72.
Crumley, Harold W. Method and apparatus for making balls from rod stock. 3,477,267, 11-11-69, Cl. 72-185.
Crumly, Charles B., to Zenith Radio Corporation. Microwave power rectifiers. 3,445,748, 5-20-69, Cl. 321-8.
Crump, Joseph R. Method of coupling pipe. 3,458,920, 8-5-69, Cl. 29-458.
Crump, Lawrence R.: *See—*
Turnage, Rodger Elmo, Jr.; Stebbins, Jerald T.; and Crump, Lawrence R.,3,476,974.
Crumpen, Mervyn James, to Marconi Company Limited, The. Slotted waveguide aerial system. 3,456,261, 7-15-69, Cl. 343-771.
Crumpen, Mervyn, to Marconi Company Limited, The. Slotted waveguide aerial systems having selectable directions of radiation. 3,453,631, 7-1-69, Cl. 343-768.
Cruse, Lee H., to Foster Manufacturing Co., Inc. Fluid line coupling. 3,477,688, 11-11-69, Cl. 251-149.9
Cruse, Oliver B., to Wagner Electric Corporation. Control valve. 3,464,742, 9-2-69, Cl. 303-13.
Cruse, Oliver B., to Wagner Electric Corporation. Control valve. 3,479,096, 11-18-69, Cl. 303-54.
Cruse, Oliver B., to Wagner Electric Corporation. Control valve. 3,480,334, 11-25-69, Cl. 303-13.
Crusey, Howard W.: *See—*
Shellman, Robert R.; and Crusey, Howard W., 3,442,009.
Crusey, Howard W.: *See—*
Shellman, Robert R.; and Crusey, Howard W.,3,442,009.
Crust, Frank E.: *See—*
Page, Wilbur M.; and Crust, Frank E.,3,456,990.
Crutcher, B. Todd, III; and Dodge, Ronald D., to International Business Machines Corporation. Torque and acceleration control clutch. 3,435,934, 4-1-69, Cl. 192-93.
Crutchfield, Marvin M.; and Irani, Riyad R., to Monsanto Company. Organo-phosphono-amine oxides. 3,429,914, 2-25-69, Cl. 260-502.5
Crutchfield, Marvin M.; and Irani, Riyad R., to Monsanto Company. Tetrakis (dihydrogen phosphono methyl)-ethylene diamine, N,N' dioxide and related compounds. 3,470,243, 9-30-69, Cl. 260-502.5
Crutchfield, Marvin M.; and Irani, Riyad R., to Monsanto Company. Methyl, bis(dihydrogen phosphono methyl)-amine oxide and related compounds. 3,470,244, 9-30-69, Cl. 260-502.5
Crutchfield, Marvin M.; and Irani, Riyad R., to Monsanto Company. Tris(phosphono-lower alkylidene) amine oxides. 3,474,133, 10-21-69, Cl. 260-502.5
Crutchfield, Marvin M.; and Irani, Riyad R., to Monsanto Company. Esters, salts, and acids of organo-phosphono-amine oxides. 3,483,178, 12-9-69, Cl. 260-140.
Cruz, Edgardo A. Automatic sampler. 3,443,439, 5-13-69, Cl. 73-423.
Cruz, Jose C.; and Ferrara, Rudolph A., to General Motors Corporation. Double acting seat hinge. 3,455,602, 7-15-69, Cl. 297-354.
Cruz, Luis Roberto. Directional control means for high turbulence and velocity of fluid flow over an airfoil assembly. 3,463,417, 8-26-69, Cl. 244-23.
Cruz, Mamerto M., Jr.: *See—*
Battista, Orlando A.; Cruz, Mamerto M., Jr.; and Riley, Walter J.,3,443,261.
Cruz, Mamerto M., to FMC Corporation. Process of preparing wet strength paper containing regenerated cellulose formed in situ therein. 3,475,270, 10-28-69, Cl. 162-177.
Cruz, Mamerto M., to FMC Corporation. Water-laid sheets containing synthetic fibers. 3,485,713, 12-23-69, Cl. 162-146.
Cryder, John R.; Field, Jesse L., Jr.; Lohbauer, Kenneth R.; and Scheidt, James E., to Caterpillar Tractor Company. Control system for dual motors. 3,486,418, 12-30-69, Cl. 91-411.
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H., to Caterpillar Tractor Company. Hydrostatic transmission control system. 3,477,225, 11-11-69, Cl. 60-19.8
Cryder, John R.; and Kroth, Neil W., to Caterpillar Tractor Company. Relief valve for hydraulic circuits. 3,478,646, 11-18-69, Cl. 91-411.
Cryer, Del. Liquid density measuring method and apparatus. 3,460,394, 8-12-69, Cl. 73-439.
Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Ignition switch utilizing a cam means for restrictive movement unless key is first moved to off position. 3,457,380, 7-22-69, Cl. 200-26.
Cryer, Edward, to Lucas, Joseph , (Industries) Limited. Fuse holders for use with flexible printed circuits. 3,482,194, 12-2-69, Cl. 337-227.
Crylor: *See—*
Corbiere, Paul Jacques; and Rosset, Jean-Baptiste, 3,468,841.
Couturier, Georges; and Gauthier, Charles, 3,423,807.
Lombard, Francis; and Juillard, Pierre, 3,433,866.
Cryodry Corporation: *See—*
Jeppson, Morris R., 3,427,171.
Jeppson, Morris R., 3,437,495.
Jeppson, Morris R., 3,478,900.
Silbermann, Klaus; and Maurer, Frederick, 3,474,210.
Smith, Franklin J., 3,446,929.
Cryogenic Technology, Inc.: *See—*
Hogan, Walter H., 3,485,054.
Crystal Research Laboratories, Inc.: *See—*
Ward, Samuel I., 3,421,839.
Csaki, Joachim, to Ackermanu u. Schmitt K.G. Motor-driven manually operable compass saw. 3,456,698, 7-22-69, Cl. 143-68.
Csaki, Joachim, to Schmitt, Ackermann U., K.G. Electromotor with detachable stator. 3,484,860, 12-16-69, Cl. 310-42.
Csakvary, Oscar: *See—*
Jureit, John C.; and Csakvary, Oscar,3,443,513.
Csakvary, Tibor, to Westinghouse Electric Corporation. Electrical contact for a hard solder electrical device. 3,483,442, 12-9-69, Cl. 317-234.
Csanady, Elmer R.: *See—*
Camp, Albert T.; Csanady, Elmer R.; and Danziger, Leonard,3,447,983.
Csapilla, Joseph, to American Cyanamid Company. Photochromic dihydrodibenzo-furans and thiophenes and synthesis thereof. 3,470,211, 9-30-69, Cl. 260-346.2
Csaszar, Frank C., to Dow Chemical Company, The, mesne. Elastomeric chlorinated polyethylene compositions and method of producing same. 3,485,788, 12-23-69, Cl. 260-33.8
Cserhati, Janos: *See—*
Vinkler, Attila; and Cserhati, Janos,3,449,164.
Cseri, Zoltan. Coupling device. 3,478,895, 11-18-69, Cl. 213-15.
Cserny, Fred P. Tap assembly for beer kegs. 3,447,558, 6-3-69, Cl. 137-212.
CSF-Compagnie generale de Telegraphie Sans Fil: *See—*
Arnaud, Jacques; Sobotka, Walter; and Desbrueres, Maurice, 3,432,776.
Arnaud, Jacques, 3,441,782.
Babillon, Claude, 3,473,125.
Baumberger, Clement F.; and Micheron, Francois, 3,479,510.
Bensimon, Jacques, 3,431,439.

Bertheas, Jean, 3,435,407.
Breniere, Andre, 3,486,105.
Carre, Roland; and Robert, Jean, 3,438,034.
Carre, Roland, 3,444,554.
Cauchois, Jean, 3,423,682.
Charles, Daniel; and Duchet, Michel, 3,461,340.
Defain, Raymond, 3,454,838.
Droniou, Daniel; and Consolin, Francis, 3,440,640.
Dupraz, Jacques; and Hawkes, Thaddeus, 3,463,911.
Faberes, Pierre; and Ribadier, Georges, 3,480,824.
Gadenne, Philippe, 3,482,244.
Girault, Jean; and Pandelle, Jean, 3,435,448.
Grosvalet, Jean, 3,436,612.
Guenard, Pierre R., 3,473,126.
Honore, Etienne; and Torcheux, Emile, 3,441,726.
Huber, Harry; and Moncorge, Gerard, 3,460,024.
Le Boutet, Hubert; and Pinel, Jacques, 3,448,263.
Le Parquier, Guy; and Pierrot, Robert, 3,430,246.
Le Parquier, Guy, 3,482,245.
Leboutet, Hubert; and Mangin, Jean-Paul, 3,482,139.
Malnar, Leon, 3,422,344.
Mangin, Jean Paul, 3,439,288.
Marchais, Jean Claude, 3,436,560.
Mathey, Raymond; Picardat, Bernard; and Lecocq, Robert, 3,435,687.
Mayer, Guy, 3,462,127.
Metz, Pierre, 3,436,628.
Moncorge, Gerard, 3,470,393.
Pressiat, Robert, 3,486,010.
Renoux, Robert, 3,466,051.
Rougeot, Henri, 3,424,909.
Salmon, Jacques A., 3,478,359.
Schnuriger, Jean Claude, 3,426,231.
Sobotka, Walter, 3,484,725.
Soffer, Jacques; and Mangin, Jean Paul, 3,454,818.
Spitz, Erich; and Romeas, Rene, 3,449,752.
Tcheditch, Pierre, 3,480,958.
Tournois, Pierre, 3,435,381.
Tournois, Pierre, 3,464,033.
Trigon, Roland, 3,478,358.
Vasseur, Jean-Pierre, 3,424,986.

CSF-Compagnie Generale de Telegraphie Sans Fils: *See—*
Bensussan, Andre Marc; and Hodge, Ronald I., 3,439,193.

Csicsatka, Antal, to General Electric Company. Cross-talk compensation for stereo receivers. 3,435,144, 3-25-69, Cl. 179-1.

Csimma, Sandor, to FMC Corporation. Discharge chute for harvesting machine. 3,448,847, 6-10-69, Cl. 198-72.

Csizi, Gotthard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Vertical mercury cathode cell. 3,449,234, 6-10-69, Cl. 204-220.

Csizi, Gotthard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Mercury cathode alkali-chlorine cell containing a porous titanium or tantalum layered anode. 3,458,423, 7-29-69, Cl. 204-219.

Csizi, Gotthard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Vertical mercury cathode electrolytic cells. 3,481,856, 12-2-69, Cl. 204-219.

Csizmas, Louis L.; and Patel, Virendra, to Miles Laboratories, Inc. Placement device. 3,480,400, 11-25-69, Cl. 23-259.

Csizmas, Louis L.; and Patel, Virendra, to Miles Laboratories, Inc. Reagent deposition device. 3,482,943, 12-9-69, Cl. 23-253.

Csupor, Denis, to Maierform Trust Reg. Bows of ships. 3,433,194, 3-18-69, Cl. 114-56.

CTP Industries Inc.: *See—*
Kamins, Seymour; and Rosenberg, Norman, 3,477,634.
Kamins, Seymour; and Rosenberg, Norman, 3,486,683.
Vande Sande, George, 3,451,613.

CTS Corporation: *See—*
Naylor, Robert W., 3,436,714.
van Benthuysen, John D.; and English, Jack A., 3,421,133.
Van Benthuysen, John D.; and Barden, Wayne A., 3,469,311.
Yoder, Joseph, 3,484,068.

Cubbage, Henry D., to United States of America, Navy. Hair faired cable. 3,440,991, 4-29-69, Cl. 114-235.

Cubberley, Harold A.; Abel, Edmund, Jr.; and Sackett, John E., to Service Recorder Company, The. Valve assembly. 3,433,255, 3-18-69, Cl. 137-510.

Cubberley, Mitchell H. Ski binding. 3,471,161, 10-7-69, Cl. 280-11.35

Cubberley, Mitchell H.; and Lipe, Gordon C.Safety devices for reducing friction between a ski and a skier's boot sole. 3,448,990, 6-10-69, Cl. 280-11.35

Cubberly, Walter E., Jr., to Schlumberger Technology Corporation. Well-calipering apparatus. 3,474,541, 10-28-69, Cl. 33-178.

Cubert, Jack S.; and Murphy, James J., to Sperry Rand Corporation. Computer logic device consisting of an array of tunneling diodes, isolators and short circuits. 3,423,646, 1-21-69, Cl. 317-234.

Cubic Corporation: *See—*
Harkay, Gabriel J., 3,429,485.
Walters, Glenn A., 3,487,277.

Cubic Industrial Corporation: *See—*
Thompson, William J., 3,482,247.

Cucchiara, Philip M.: *See—*
O'Brien, Walter F., 3,453,922.

Cucchiara, Philip M. Harpsichord with vertical engagement action for jacks. 3,478,630, 11-18-69, Cl. 84-258.

Cuccia, John F.: *See—*
Goodwin, Raymond Wendell; and Cuccia, John F.,3,438,268.

Cucinella, Salvatore: *See—*
Marconi, Walter; Mzaaei, Alessandro; de Malde', Marcello; and Cucinella, Salvatore,3,432,516.

Cucka, John Michael. Antenna mounting unit. 3,450,378, 6-17-69, Cl. 248-43.

Cuckler, Ashton C.; Egerton, John R.; and Zeissig, Alexander, to Merck & Co., Inc. Anthelmintic 2-substituted benzimidazole-metal arsenate compositions and method. 3,484,519, 12-16-69, Cl. 424-134.

Cucksey, Edward L.: *See—*
Du Buis, Edwin O.; and Cucksey, Edward L.,3,447,297.

Cuckson, Eric Engel; and Jones, Arthur Llewelyn, to Scovill Manufacturing Company. Method of producing folded thermplastic strips for sliding clasp fasteners. 3,445,915, 5-27-69, Cl. 29-408.

Cuculic, Gail E.; Tatom, Lynn D.; and Murphree, Elwyn L., to Centex Poultry Company. Poultry catch curtain. 3,450,100, 6-17-69, Cl. 119-22.

Cudd, William H.; and Soulier, Robert A., to Filper Corporation. Pitter and sorter for separating pitted from unpitted peach halves. 3,442,313, 5-6-69, Cl. 146-222.

Cudd, Wilson E.: *See—*
Osborn, Carroll H.; and Cudd, Wilson E.,3,478,770.

Cuddeback, Bruce A.: *See—*
Brothman, Abraham; Halpern, Stephen J.; Reiser, Richard D; Cuddeback, Bruce A.; and Miller, Allen H.,3,449,716.

Cudmore, Patrick J. Rocking capsule. 3,477,713, 11-11-69, Cl. 272-33.

Cuenot, Charles, to Le Nickel, Societe Anonyme. Method of producing pure nickel by electrolytic refining. 3,432,410, 3-11-69, Cl. 204-112.

Cufflin, Maurice Harold, to Marconi Company Limited, The. Apparatus for measuring speed comprising a light- electric translating device. 3,486,032, 12-23-69, Cl. 250-211.

Cughbert, John D.; and Thomas, David G., to Bell Telephone Laboratories, Incorporated. Electroluminescent material and device. 3,462,630, 8-19-69, Cl. 313-108.

Cugini, Edward T.; and Jeannerett, Wallace S., to Shaffer Tool Works. Cable feed-through means and method for well head constructions. 3,437,149, 4-8-69, Cl. 166-315.

Cugini, John A.; and Chabot, Leo L., to Marshall, John Donald, and Bomar, Horace L., as trustees, mesne. Mechanism for marking yarn on spun bobbins. 3,425,395, 2-4-69, Cl. 118-232.

Cujai, Johann, to Sulzer Brothers Limited. Method and apparatus for forming tucked-in selvages on fabrics woven on looms having bobbinless shuttles. 3,457,966, 7-29-69, Cl. 139-122.

Cukale, Edward: *See—*
Puczynski, Stanley, 3,475,860.

Culbert, Robert M.; and Mugford, Clifton C., to Farr Company. Resettable differential pressure indicator. 3,436,500, 4-1-69, Cl. 200-81.6

Culbertson, Billy M., to Ashland Oil & Refining Company. Aromatic polyimideamides prepared from aromatic tetracarboxylic acid dianhydrides and aminoaromatic hydrazides. 3,453,236, 7-1-69, Cl. 260-47.

Culbertson, George S.; Sabol, Albert R.; and Karll, Robert E., to Standard Oil Company (Indiana). Aromatic hydrocarbons alkylated with normal butene polymers and the method of preparing the same. 3,456,027, 7-15-69, Cl. 260-671.

Culbertson, Harry M.; and Buchanan, Alan David, to Monsanto Chemicals (Australia) Limited. Production of high-ortho novolak resins. 3,476,707, 11-4-69, Cl. 260-57.

Culbertson, James F.: *See—*
Friesen, Gordon A.; and Culbertson, James F.,3,423,521.

Culbertson, Richard; and Ostreah, Harvey Richard, to General Electric Company. Handle assembly for cartridge tape player. 3,476,392, 11-4-69, Cl. 274-4.

Culik, Karel; Herold, Milos; Palkoska, Josef; Sikyta, Bohumil; and Slezak, Josef. Process for the production of tetracycline. 3,429,781, 2-25-69, Cl. 195-80.

Culik, Karel; Palkoska, Josef; Vondracek, Miloslav; Skoda, Jan; and Herold, Milos, deceased0 (by Heroldova, Josefa, sole heir), to Spofa Sdruzeni Pro Zdrovotnickou Vyrobu. Fermentation process for the production of tetracycline. 3,429,780, 2-25-69, Cl. 195-80.

Culik, Karel: *See—*
Vondracek, Miloslav; Slezak, Josef; Herold, Milos; and Culik, Karel,3,425,911.

Cull, John V. Terminal board wire wrap intercept connector. 3,471,821, 10-7-69, Cl. 339-17.

Cull, Neville Leverne; and Aldridge, Clyde Lee, to Esso Research and Engineering Company. Preparation of high molecular weight oxygenated compounds. 3,454,649, 7-8-69, Cl. 260-601.

Cull, Neville L.: *See—*
Mertzweiller, Joseph K.; Cull, Neville L.; and Hawley, Roger S.,3,425,895.
Cull, William; and Hutchinson, Philip, to Birfield Engineering Limited. Universal joints. 3,452,558, 7-1-69, Cl. 64-21.
Cullen, Douglas H., to Dollinger Corporation. Filter with by-pass valve and indicator. 3,464,556, 9-2-69, Cl. 210-90.
Cullen, Michael: *See—*
Brough-Cunningham, Keith Begbie; Wardle, Leonard George; and Cullen, Michael,3,467,889.
Cullen, Roy H.; and Elliott, Charles H., to Youngstown Sheet and Tube Company, The, mesne. Method for wire-wrapping pipe. 3,481,549, 12-2-69, Cl. 242-7.02
Cullen, Roy H.; Elliott, Charles H.; Aker, Jimmie R.; and Burke, William E., to Youngstown Sheet and Tube Company, The, mesne. Flexible drill collar. 3,446,297, 5-27-69, Cl. 175-301.
Culligan, Inc.: *See—*
Kreusch, Edward G.; and Morrison, Edwin A., 3,450,265.
Lyall, Charles E., 3,434,490.
Lyall, Charles E.; Morrison, Edwin A.; and Vesely, Robert B., 3,441,047.
Lyall, Charles E., 3,465,880.
Morrison, Edwin A., 3,443,114.
Rak, Stanley F., 3,456,803.
Cullinan, Thomas L., Jr. Protector glove. 3,484,869, 12-23-69, Cl. 2-161.
Culling, John H., to Carondelet Foundry Company. Corrosion-resistant alloys. 3,473,922, 10-21-69, Cl. 75-171.
Cullis, Roger, to International Standard Electric Corporation. Semiconductor process including reduction of the substrate thickness. 3,428,499, 2-18-69, Cl. 148-174.
Cullis, Roger, to International Standard Electric Corporation. Semiconductor devices. 3,473,975, 10-21-69, Cl. 148-175.
Cullom, John H.: *See—*
Ley, Gordon S.; and Cullom, John H.,3,467,916.
Culmone, Louis W. Removable identifying characters of clothing. 3,484,974, 12-23-69, Cl. 40-129.
Culp, Albert E., to American Potash & Chemical Corporation, mesne. Method and apparatus for withdrawing a supersaturated solution from a container. 3,454,306, 7-8-69, Cl. 302-15.
Culp, Charles R., to Armstrong Cork Company. Process for making pressed fiberboard utilizing through circulation preheating. 3,468,755, 9-23-69, Cl. 162-206.
Culp, Gordon L.; Hansen, Sigurd P.; and Stukenberg, John R., to Neptune Microfloc, Incorporated. Sewage treatment method and plant. 3,472,764, 10-14-69, Cl. 210-7.
Culp, Gordon L.; Schilling, Robert D.; Hansen, Sigurd P.; and Botsford, Charles W., to Neptune Microfloc, Incorporated. Waste water treatment system. 3,425,936, 2-4-69, Cl. 210-8.
Culp, Gordon L.: *See—*
Rice, Archie H.; Culp, Gordon L.; Conley, Walter R., Jr.; and Hansen, Sigurd P.,3,482,694.
Culp, John F. Collision-actuated circuit breaker. 3,443,658, 5-13-69, Cl. 180-96.
Culpepper, Alan L., to Dow Corning Corporation. Fluid aromatic siloxane block copolymers. 3,440,262, 4-22-69, Cl. 260-448.2
Culpepper, Eugene, to Phillips Petroleum Company. Apparatus for stacking and packing articles. 3,473,290, 10-21-69, Cl. 53-77.
Culpepper, Harold D.; and Gentry, William O., to United States of America, Atomic Energy Commission. Alarm system for UF_6 in air. 3,474,022, 10-21-69, Cl. 204-195.
Culshaw, William; Dahlquist, John A.; and Peterson, Don G., to Lockheed Aircraft Corporation. Opposite circularly-polarized optical heterodyne detection system. 3,463,924, 8-26-69, Cl. 250-199.
Cultrera, Samuel. Fishing floats. 3,455,056, 7-15-69, Cl. 43-44.91
Culver, Clyde C., to General Motors Corporation. Tractor track shoe. 3,477,768, 11-11-69, Cl. 305-54.
Culver, Irven H., to Southwestern Industries, Inc. Constant velocity universal joint. 3,477,249, 11-11-69, Cl. 64-21.
Culver, Leonard James: *See—*
Disley, Kenneth Thomas; Pearce, Roy George; Christopher, Leonard Henry; and Culver, Leonard James,3,441,006.
Culver, Perrin C., to Deutsch Company Electronic Components Division, The. Push-pull connector. 3,470,524, 9-30-69, Cl. 339-90.
Culver, Perrin C., to Deutsch Company Electronic Components Division, The. Electrical connecting device. 3,475,720, 10-28-69, Cl. 339-217.
Culver, Raymond L.: *See—*
Lagman, Alfred W.; and Culver, Raymond L.,3,482,425.
Culver, Richard B., to Dresser Industries Inc. Differential pressure apparatus for measuring fluid density. 3,486,380, 12-30-69, Cl. 73-398.
Cuming, William R.: *See—*
Copley, John R.; Cuming, William R.; and Rowe, Paul E.,3,425,577.
Cumming, Ian George, to United Wire Works Limited, The. Endless belt for paper or board making machine and a method of weaving cloth therefor. 3,464,461, 9-2-69, Cl. 139-425.
Cumming, James C., to Rockwell-Standard Company. Vehicle brake system. 3,453,030, 7-1-69, Cl. 303-89.
Cumming, James C., to Rockwell-Standard Company, mesne. Vehicle brake control mechanism. 3,484,138, 12-16-69, Cl. 303-22.
Cumming, James Deans. Friction grip wedge fasteners. 3,455,200, 7-15-69, Cl. 85-66.
Cumming, John, to Blakeslee, G. S., & Co. Sectional dishwashing machine and structural units. 3,468,320, 9-23-69, Cl. 134-46.
Cumming, William A., to Canadian Patents and Development Limited. Apparatus for dielectric heating. 3,457,385, 7-22-69, Cl. 219-10.61
Cumming, William A.; and Bleackley, William J., to Canadian Patents and Development Limited. Microwave dryer for drying the glue line in paper forms. 3,456,355, 7-22-69, Cl. 34-1.
Cumming, William A.: *See—*
Bleackley, William J.; and Cumming, William A.,3,465,114.
Cummings, Alan F., to North American Rockwell Corporation. Flexible aerodynamic body. 3,433,441, 3-18-69, Cl. 244-138.
Cummings, Dale K., to Cessna Aircraft Company, The. Aircraft propeller with electrical deicer. 3,455,396, 7-15-69, Cl. 170-160.23
Cummings, Edwin, Jr.: *See—*
Gribas, George J.; Kinney, George C.; and Cummings, Edwin, Jr.,3,460,547.
Cummings, Harold K., to Amphenol-Borg Electronics Corporation. Self-reversing synchronous motor. 3,434,027, 3-18-69, Cl. 318-282.
Cummings, Howard B., to Interpace Corporation. Ceramic casting techniques. 3,431,332, 3-4-69, Cl. 264-86.
Cummings, Howard B., to Interpace Corporation. Pug mill apparatus. 3,451,107, 6-24-69, Cl. 25-11.
Cummings, Lowell O., to Pacific Vegetable Oil Corporation. Polyaldehyde-polyamine coating composition. 3,475,359, 10-28-69, Cl. 260-21.
Cummings, Raymond P., to National Biscuit Company. Article aligning and row accumulating apparatus. 3,463,291, 8-26-69, Cl. 198-30.
Cummings, Timothy E., to Bethlehem Steel Corporation. Desilting equipment. 3,449,915, 6-17-69, Cl. 61-2.
Cummings, Walter W., to Mobil Oil Corporation. Shut-off control for an in-situ combustion production well. 3,430,696, 3-4-69, Cl. 166-53.
Cummings, William: *See—*
Lynch, Eric Royle; and Cummings, William,3,481,949.
Cummins, Clessie L.: *See—*
Cummins, Clessie L., Jr., 3,442,141.
Cummins, Clessie L., Jr., to Cummins, Clessie L., mesne. Shroud arrangement for centrifugal governor weights. 3,442,141, 5-6-69, Cl. 73-521.
Cummins, Donald L.; and Raver, Louis J., to General Motors Corporation. Potential regulator circuit. 3,427,529, 2-11-69, Cl. 321-18.
Cummins, Donald L.; and Stenklyft, Gerald H., to General Motors Corporation. Potential regulator circuit. 3,456,182, 7-15-69, Cl. 322-28.
Cummins, Earl W., to Du Pont de Nemours, E. I., and Company. Chlorination of 3,6-disubstituted uracils. 3,480,631, 11-25-69, Cl. 260-260.
Cummins Engine Company: *See—*
Kirkpatrick, Henry O., 3,420,294.
Cummins, James M.: *See—*
Noble, Gardiner A.; and Cummins, James M.,3,460,027.
Cummins, Richard D., to Carleton Controls Corporation. Intermittent positive pressure breathing apparatus. 3,468,307, 9-23-69, Cl. 128-145.5
Cummins, Samuel A.: *See—*
Baumann, Hans D., 3,485,474.
Cummisford, Patricia D., to General Mills, Inc. Method of preparing puffed cereal product. 3,464,828, 9-2-69, Cl. 99-82.
Cumpston, Edward H., Jr. Apparatus for reducing particle size. 3,442,457, 5-6-69, Cl. 241-47.
Cundall, James William: *See—*
Cox, Peter Oliver; and Cundall, James William,3,474,988.
Cunder, Joseph: *See—*
Lally, Robert E.; and Cunder, Joseph,3,476,786.
Cundy, Edwin Kenneth, to English Clays Lovering Pochin & Company Limited. Processing of clay. 3,450,257, 6-17-69, Cl. 209-5.
Cunha, Joseph J., to Cunha Products, Inc. Detachable running gear for vehicles. 3,476,405, 11-4-69, Cl. 280-415.
Cunha, Joseph J.; and Conlon, Thomas E., to Cunha Products Incorporated. Load distributing assembly for wheel supported vehicles. 3,479,055, 11-18-69, Cl. 280-407.
Cunha Products, Inc.: *See—*
Cunha, Joseph J., 3,476,405.
Cunha Products Incorporated: *See—*
Cunha, Joseph J.; and Conlon, Thomas E., 3,479,055.
Cuningham, Donald M., to Emerson Electric Co., mesne. Heating apparatus. 3,483,357, 12-9-69, Cl. 219-316.

Cunliffe, Alwyn: *See—*
Gordon, Stuart; Mowate, Arthur Jack; Morris, James Paul; and Cunliffe, Alwyn,3,470,273.
Cunningham assor. to Illinois Tool Works, Inc.: *See—*
Cunningham, Ernest R.; and Hohl, John, 3,447,280.
Cunningham, Cecil R.: *See—*
Russell, Robert G.; and Cunningham, Cecil R.,3,469,796.
Cunningham, Charles E.: *See—*
Keith, Carl D.; Cunningham, Charles E.; and Schreuders, Teunis,3,443,911.
Keith, Carl D.; Schreuders, Teunis; and Cunningham, Charles E.,3,441,381.
Cunningham, Donald M.: *See—*
Ammerman, George Edward; and Cunningham, Donald M.,3,447,121.
Cunningham, Eldon R., to General Electric Company. Dynamoelectric machine winding circuit controlling switch assembly. 3,433,908, 3-18-69, Cl. 200-80.
Cunningham, Ernest R., to Illinois Tool Works, Inc. Selective braking system for four wheel drive vehicles. 3,466,096, 9-9-69, Cl. 303-6.
Cunningham, Ernest R. Earth moving apparatus with vibrating cutting edge. 3,478,450, 11-18-69, Cl. 37-141.
Cunningham, Ernest R.; and Hohl, John, said Hohl assor. to Owens-Illinois, Inc., and said Cunningham assor. to Illinois Tool Works, Inc. Packaging assembling apparatus. 3,447,280, 6-3-69, Cl. 53-48.
Cunningham, Gerald A. Joint structure for tubular members. 3,427,056, 2-11-69, Cl. 287-54.
Cunningham, Gerald A., to Colorado Outdoor Sports Corporation. Tent pole assembly or the like. 3,447,549, 6-3-69, Cl. 135-15.
Cunningham, Henry L.: *See—*
Parsons, Hubert J.; and Cunningham, Henry L.,3,464,292.
Cunningham, Jack: *See—*
Ross, Edward E.; and Cunningham, Jack,3,455,307.
Cunningham, James, & Son, Co., Inc.: *See—*
Mustafa, Farid M., 3,427,575.
Cunningham, James J.; Hall, Webster F.; and Myers, Allen J., to National Automatic Tool Co., Inc. Side quench mechanism for induction intensifiers. 3,466,023, 9-9-69, Cl. 266-4.
Cunningham, James M., to International Business Machines Corporation. Printer platen control system. 3,451,335, 6-24-69, Cl. 101-93.
Cunningham, John W., to Air Reduction Company, Incorporated. Pulsed welding and cutting by variation of composition of shielding gas. 3,484,575, 12-16-69, Cl. 219-74.
Cunningham, Leslie L.: *See—*
Hart, William E.; Allen, William A.; and Cunningham, Leslie L.,3,434,211.
Cunningham, Mc Cleery B.; and Dunlap, Charles K., Jr., to Sonoco Products Company. Forming tube for glass fibers. 3,451,433, 6-24-69, Cl. 138-144.
Cunningham, McCleery B., to Sonoco Products Company. Method of making a wound multi-ply paper tube. 3,430,543, 3-4-69, Cl. 93-94.
Cunningham, McCleery B.; and Dunlap, Charles K., Jr., to Sonoco Products Company. Forming tube for glass fibers. 3,429,522, 2-25-69, Cl. 242-118.32
Cunningham, McCleery B.; and Dunlap, Charles K., Jr., to Sonoco Products Company. Forming tube for glass fibers. 3,455,521, 7-15-69, Cl. 242-118.32
Cunningham, Patrick J., to Bell & Howell Company, mesne. Combined motion picture projector support and structural brace. 3,454,167, 7-8-69, Cl. 211-88.
Cunningham, Patrick J., to Bell & Howell Company, mesne. Motion picture projector with viscous switch for controlling projection lamp. 3,479,113, 11-18-69, Cl. 352-167.
Cunningham, Peter B., to Bell Telephone Laboratories, Incorporated. Balanced differential amplifier with improved longitudinal voltage margin. 3,461,397, 8-12-69, Cl. 330-30.
Cunningham, Robert A.: *See—*
McElya, Fred H.; and Cunningham, Robert A.,3,442,342.
Cunningham, Sheldon A.; and Marwil, Stanley J., to Phillips Petroleum Company. Polyolefin recovery from solution by flashing and chopping. 3,457,248, 7-22-69, Cl. 260-93.5
Cunningham, Sinclair Upton: *See—*
Firth, Donald; Cunningham, Sinclair Upton; and McIntyre, Ronald Graham,3,473,440.
Firth, Donald; Cunningham, Sinclair; and Hair, Hugh,3,456,533.
Cunningham, Thomas W., to Baldwin, D. H., Company. Chiff and tone generator. 3,445,578, 5-20-69, Cl. 84-1.04
Cunningham, Thomas W., to Baldwin, D. H., Company. Celeste system for a locked-octave electronic organ. 3,450,825, 6-17-69, Cl. 84-1.24
Cunningham, Thomas W., to Baldwin, D. H., Company. Low-pitched voices in electronic organs. 3,476,866, 11-4-69, Cl. 84-1.26
Cunningham, Wesley B. Electrically actuated demolition device. 3,436,121, 4-1-69, Cl. 299-70.
Cunningham, William J., to Allied Chemical Corporation. Method for combatting growth of undesirable vegetation. 3,453,100, 7-1-69, Cl. 71-124.
Cunningham, William J.; and Woolf, Cyril, to Allied Chemical Corporation. Purification of perhaloacetones. 3,433,838, 3-18-69, Cl. 260-593.
Cunningham, William J.: *See—*
Sweeney, Richard F.; and Cunningham, William J.,3,442,952.
Cuny, Florian B.: *See—*
Byrnes, James H.; and Cuny, Florian B.,3,473,270.
Cuny, Robert: *See—*
Rauhut, Paul; Glavitsch, Johann; and Cuny, Robert,3,471,708.
Cupler, John A., II. Apparatus for conducting machining operations. 3,478,419, 11-18-69, Cl. 29-568.
Cupler, Melvin C. Friction wrench. 3,444,767, 5-20-69, Cl. 81-63.1
Cupp, Charles D., to Automatic Sprinkler Corporation of America, mesne. Valve assembly for breathing apparatus. 3,431,931, 3-11-69, Cl. 137-102.
Cupp, Charles D., to Automatic Sprinkler Corporation of America. Valve assembly for breathing apparatus. 3,431,932, 3-11-69, Cl. 137-102.
Cupp, Charles D., 'Automatic' Sprinkler Corporation of America, mesne. Demand actuating means for alternate breathing supply. 3,456,642, 7-22-69, Cl. 128-142.2
Cupp, Charles D., 'Automatic' Sprinkler Corporation of America, mesne. Means for dispersing gases exhaled from underwater breathing apparatus. 3,474,782, 10-28-69, Cl. 128-142.
Cupp, Samuel B.: *See—*
Bacon, Osborne C.; and Cupp, Samuel B.,3,431,132.
Cuppers, Curt W.; and Kirchhubel, Kurt. Apparatus for use in coordinating eccentrically focussing eyes with a healthy eye. 3,481,330, 12-2-69, Cl. 128-76.5
Cuppers, Paul: *See—*
Bottger, Friedrich; and Cuppers, Paul,3,448,656.
Cuppini, Ubaldo C. M. Di & Co. Soc. Acc. Sempl.: *See—*
Cuppini, Ubaldo, 3,466,848.
Cuppini, Ubaldo, to Cuppini, Ubaldo C. M. Di & Co. Soc. Acc. Sempl. Automatic wrapping machine for reels. 3,466,848, 9-16-69, Cl. 53-204.
Cupples Container Company: *See—*
Morin, Joseph C., 3,469,459.
Morin, Joseph C., 3,473,195.
Ronden, Clifford P., 3,471,899.
Ronden, Clifford P., 3,482,280.
Curati, Hershel L.: *See—*
Swickad, James L.; and Curati, Hershel L.,3,461,495.
Curchack, Herbert D., to United States of America, Army. Artillery simulator. 3,444,733, 5-20-69, Cl. 73-167.
Curcio, Raymond J.: *See—*
Dobranski, Stephen F.; and Curcio, Raymond J.,3,468,027.
Curd, Ralph B.: *See—*
Grandinetti, Attilio; Curd, Ralph B.; and Dimen, James,3,424,635.
Cure, John Raymond, to Associated Electrical Industries Limited. Means for preventing excessive current flow between A.C. power networks. 3,487,264, 12-30-69, Cl. 371-14.
Cure, Ronald William Lewis, to Westland Aircraft Limited. Rotor heads for rotary wing aircraft. 3,470,962, 10-7-69, Cl. 170-160.53
Cureton, Francis M.; and McManus, Jackson L., to Electro-Matic Corporation. Variable count and slubbing apparatus and method. 3,449,899, 6-17-69, Cl. 57-38.3
Cureton, William E.: *See—*
Rice, Edward K.; and Cureton, William E.,3,467,144.
Curl, Garold W.: *See—*
Sanders, Ray W.; Broderick, Donald L.; and Curl, Garold W.,3,486,118.
Curl, Gerald A., to Coastal Dynamics Corporation. Miniature light structure. 3,450,870, 6-17-69, Cl. 240-8.16
Curlator Corporation: *See—*
Langdon, Howard H., 3,435,484.
Curlee, John W. Random motion recreation vehicle. 3,460,828, 8-12-69, Cl. 272-33.
Curlee Machinery Company, Inc.: *See—*
Curlee, Sandy T., 3,468,506.
Curlee, Sandy T., to Curlee Machinery Company, Inc. Bracket. 3,468,506, 9-23-69, Cl. 248-221.
Curler, Howard J.; and Lineburg, Glenn E., to Curwood, Inc. Flexible wrapping material. 3,445,324, 5-20-69, Cl. 161-165.
Curlett, John, to Gurries Manufacturing Co. Transmission. 3,439,553, 4-22-69, Cl. 74-409.
Curley, Edward J.: *See—*
Brosnahan, Robert E.; and Curley, Edward J.,3,451,014.
Curley, Henry: *See—*
Papendick, Paul; and Curley, Henry,3,464,541.
Curlock, Walter; O'Neill, Charles E.; and Queneau, Paul E., to International Nickel Company, Inc., The. Recovery of nickel from nickel-containing sulfide materials. 3,468,629, 9-23-69, Cl. 23-203.
Curn, Frantisek, to Naradi, narodni podnik. Diamond tool. 3,440,774, 4-29-69, Cl. 51-206.
Curnan, Hugh J.: *See—*
O'Connell, James A.; Zaratkiewicz, Edwin A.; and Curnan, Hugh J.,3,481,306.

Curphey, David G.; and Fowler, William J., to FMC Corporation. Presorting method and apparatus. 3,432,032, 3-11-69, Cl. 209-73.
Curran, Bernard E.: *See—*
Albrecht, Raymond E.; Curran, Bernard E.; and Lindner, Robert G.,3,462,902.
Curran, Bernard E., to Robertson, H. H., Company. Field erected insulated wall structure. 3,482,367, 12-9-69, Cl. 52-309.
Curran, Daniel R.; Gerber, William J.; and Williams, Alfred L. W., to Clevite Corporation. Piezoelectric resonator. 3,423,700, 1-21-69, Cl. 333-72.
Curran, Daniel R.; and Smith, James A., to Clevite Corporation. Resonator supporting structure. 3,453,458, 7-1-69, Cl. 310-9.1
Curran, Edward E.: *See—*
Loehlein, Harold J.; and Curran, Edward E.,3,462,990.
Curran, Frank J., Co.: *See—*
Curran, Frank J., 3,424,380.
Curran, Frank J., 3,443,083.
Curran, Frank J., to Curran, Frank J., Co. Package and support therefor. 3,424,380, 1-28-69, Cl. 239-60.
Curran, Frank J., to Curran, Frank J., Co. Vaporizing light shield and combined night light vaporizer. 3,443,083, 5-6-69, Cl. 240-2.
Curran, John Patrick Stewart, to Lucas, Joseph, (Industries) Limited. Variable flow metering devices. 3,426,801, 2-11-69, Cl. 138-46.
Curran, John R., to International Telephone and Telegraph Corporation. Electromechanical actuator. 3,461,736, 8-19-69, Cl. 74-424.8
Curran, Michael G. Multiple-belt seat harness. 3,463,545, 8-26-69, Cl. 297-389.
Curran, Michael G. Safety harness buckle. 3,482,288, 12-9-69, Cl. 24-75.
Curran, Robert A., to Solitron Devices, Incorporated, mesne. Fluidized bed coating process and apparatus. 3,483,011, 12-9-69, Cl. 117-21.
Curran, Robert E.: *See—*
Mendelsohn, Lewis I.; and Curran, Robert E.,3,432,279.
Curran, William W., to Benton & Bowles, Inc. Hat with voice amplifying system. 3,422,224, 1-14-69, Cl. 179-1.
Currat, Emile. Bracelet clasp. 3,445,900, 5-27-69, Cl. 24-71.
Curren, John L. Domestic hot water generator. 3,477,503, 11-11-69, Cl. 165-154.
Current Control Devices, Inc.: *See—*
Chase, William L., 3,458,759.
Current, James H., to Camco, Incorporated. Multi-latch dual production well packer. 3,450,205, 6-17-69, Cl. 166-189.
Current, James H., to Schlumberger Technology Corporation, mesne. Well tool with expansible anchor and friction drag. 3,467,186, 9-16-69, Cl. 166-216.
Current, James H.; and Ehlert, Harry C., to Camco Incorporated. Hydraulically set well packer. 3,456,723, 7-22-69, Cl. 166-120.
Currey, Charles F.; and Rydin, Roger A., to Westinghouse Electric Corporation. Temperature control for a nuclear reactor. 3,423,285, 1-21-69, Cl. 176-24.
Currey, John E., to Hooker Chemical Corporation. Support system for electrolytic cells. 3,425,927, 2-4-69, Cl. 204-242.
Currey, John E., to Hooker Chemical Corporation. Current conducting members for electrolytic cell. 3,432,422, 3-11-69, Cl. 204-258.
Currey, John E., to Hooker Chemical Corporation. Cathodic protection of reinforcing metals in electrolytic cells. 3,475,304, 10-28-69, Cl. 204-147.
Currey, John E.: *See—*
Emery, Alvin T.; and Currey, John E.,3,425,929.
Hooker, Thomas; and Currey, John E.,3,434,948.
Currie, Andrew Cochran; and Dinwoodie, Andrew Harper, to United States of America, Navy, mesne. Dinitroimidazolidin-2-one derivatives. 3,468,903, 9-23-69, Cl. 260-309.7
Currie, Grover C., Jr., to Weyerhaeuser Company. Packaging machine. 3,430,412, 3-4-69, Cl. 53-48.
Currie, Harold B.: *See—*
Silverman, Bernard P.; and Currie, Harold B.,3,465,288.
Currie, James R.: *See—*
Reid, Harry, Jr.; and Currie, James R.,3,487,288.
Currie, Robert B.; Sellinger, Martin S.; and Villaume, Henry F., to Air Products and Chemicals, Inc. Cryogenic refrigeration system. 3,422,632, 1-21-69, Cl. 62-45.
Currie, William E., to Honeywell Inc. Transducer control apparatus. 3,454,923, 7-8-69, Cl. 340-8.
Currie, William E.; and Mettert, Paul M., to Honeywell Inc. Function generating apparatus. 3,465,257, 9-2-69, Cl. 328-185.
Currier, Emery W.: *See—*
Shanefield, Daniel J.; Battle, James H.; and Currier, Emery W.,3,453,583.
Currier, Gerald F., 50% to Lindquist, Richard H. Destructible article for reserving a recess in concrete. 3,421,551, 1-14-69, Cl. 138-178.
Currier, John A., to Scott & Williams, Incorporated, mesne. Knitted products. 3,475,925, 11-4-69, Cl. 66-187.
Currin, Cedric G., to Dow Corning Corporation. Large volume semiconductor coating reactor. 3,460,510, 8-12-69, Cl. 118-48.
Currin, Cedric G.; Herczog, Andrew; and Settzo, Robert J., to Corning Glass Works. Monolithic thin-film devices with active and resistive regions. 3,474,304, 10-21-69, Cl. 317-234.
Curriston, Loren E.; and Draugelis, Bronius M., to North American Rockwell Corporation. Reduced-power motor operation. 3,463,986, 8-26-69, Cl. 318-166.
Curry, Byrl E.; Dehne, Clarence A.; and Farley, Joseph W., to Webb, Jervis B., Company. Conveyor carrier with selectively operable dogs. 3,451,352, 6-24-69, Cl. 104-172.
Curry, Charles E. Gas analyzer. 3,476,516, 11-4-69, Cl. 23-254.
Curry, Jack A. Eyeglass temples having adjustable ear-engaging bars. 3,476,467, 11-4-69, Cl. 351-123.
Curry, James W., to Texas Instruments Incorporated. Method for preparation of cyclic diorganosiloxanes. 3,432,538, 3-11-69, Cl. 260-448.2
Curry, James W., to Texas Instruments, Incorporated. Method for preparation of cyclic organohydrosiloxane. 3,484,468, 12-16-69, Cl. 260-448.2
Curry, Janet C.; and Dudley, Wilton V., to Lever Brothers Company. Multiple inoculation device. 3,455,788, 7-15-69, Cl. 195-139.
Curry, Kenneth Vasey, to Lever Brothers Company. Shampoos. 3,457,175, 7-22-69, Cl. 252-89.
Curry, Leonard O. Apparatus for the support and movement of radiographic equipment on an elongated pipe. 3,445,655, 5-20-69, Cl. 250-65.
Curry, Leonard O. X-ray tube housing consisting of a dielectric material with an electrically conductive liner. 3,473,028, 10-14-69, Cl. 250-87.
Curry, Philip E., to Monsanto Company. Joining fabric seams with thermoplastic materials. 3,420,725, 1-7-69, Cl. 156-305.
Curry, Robert P.; and Geddes, James C., Jr., to Ethyl Corporation. Phenol alkylation process. 3,426,082, 2-4-69, Cl. 260-624.
Curry, William H.: *See—*
Koch, Robert L.; Thomas, Earl F.; Miklos, Joseph A.; and Curry, William H.,3,426,423.
Curry, William J., Jr., to Globe Refractories, Inc. Ladle valve. 3,464,598, 9-2-69, Cl. 222-559.
Curry, Winstor W., to Ewing-Record & Associates, Inc. Self-raising cantilever steel forms for mass concrete. 3,437,305, 4-8-69, Cl. 249-10.
Curtenius, Frederick B. Tractor propelled mower with fixed cutters. 3,427,792, 2-18-69, Cl. 56-229.
Curtice, Gerald M.; and Taft, David D., to Ashland Oil & Refining Company, mesne. Water-dispersible polyalkylene glycol modified drying oil alkyd. 3,442,835, 5-6-69, Cl. 260-22.
Curtin, Frank M. Automatic deep fat frying machine. 3,474,726, 10-28-69, Cl. 99-404.
Curtin, John Hedley; and Gagolski, Julian, to Colonial Sugar Refining Company Limited, The. Process for the manufacture of phosphoric esters of carbohydrates and of polyhydric alcohols. 3,437,653, 4-8-69, Cl. 260-234.
Curtin, Thomas D.: *See—*
Schwartz, Arthur; Arkwright, George A., Jr.; and Curtin, Thomas D.,3,424,894.
Curtin, William J. Telephone answering system providing multiple answering points with centralized or decentralized operation. 3,446,919, 5-27-69, Cl. 179-27.
Curtis 1000 Inc.: *See—*
Brink, Richard E., 3,431,404.
Curtis & Marble Machine Co.: *See—*
Arsenault, James H., 3,432,076.
Curtis, Billy Dean: *See—*
Curtis, William L.; and Curtis, Billy Dean,3,467,224.
Curtis Development & Mfg. Co.: *See—*
Francis, Raymond J., 3,436,609.
Hancock, Lyle J.; and Miller, Robert E., 3,434,103.
Curtis, Donald J., to Rosemount Engineering Company. Standard thermometer. 3,482,199, 12-2-69, Cl. 338-28.
Curtis, Donald R., to Allis-Chalmers Manufacturing Company. Remote controlled headbox slice. 3,463,701, 8-26-69, Cl. 162-347.
Curtis Dyna-Products Corporation: *See—*
Curtis, Russell R.; Schlensker, Albert L.; and Jung, James E., 3,458,948.
Curtis, Edward Wesley; and Jobe, Thornley C., to RCA Corporation. Phase shifting circuits for color television receivers. 3,454,708, 7-8-69, Cl. 178-5.4
Curtis, Frank F.: *See—*
Stuart, Linden, Jr.; and Curtis, Frank F.,3,470,057.
Curtis, Frank W., to Lexsuco, Inc. Fire retardant insulative structure and roof deck construction comprising the same. 3,466,222, 9-9-69, Cl. 161-160.
Curtis, Hazen, III; and Tuchen, Gerd A., to Bell Telephone Laboratories, Incorporated. Holder for mounting elements within a waveguide. 3,487,340, 12-30-69, Cl. 333-81.
Curtis, Helene, Industries, Inc.: *See—*
Banke, Henry S., 3,427,704.
Broski, Thomas J., 3,426,441.

Curtis Instruments Inc.: *See—*
Beusman, Curtis C., 3,462,684.
Curtis, James Patrick: *See—*
Kurpisz, Zenon Jan; Connor, Gerald James; and Curtis, James Patrick,3,435,515.
Curtis, John G., to Corning Glass Works. Method of forming an electrical resistance element. 3,468,011, 9-23-69, Cl. 29-620.
Curtis, Johnnie J.; and Sandvick, Robert M., said Curtis assor. to said Sandvick. Pipe laying apparatus. 3,486,214, 12-30-69, Cl. 29-237.
Curtis, Larry L.; O'Gorman, Thomas M.; and Cox, Bing A. Balanced bearing sailboat traveler. 3,438,349, 4-15-69, Cl. 114-102.
Curtis Manufacturing Company: *See—*
Dayson, Arthur, 3,477,343.
Curtis, Marland G. Sample screening plant. 3,425,552, 2-4-69, Cl. 209-239.
Curtis, Mary Lou: *See—*
Curtis, William L.; and Curtis, Billy Dean, 3,467,224.
Curtis, Norman S.: *See—*
Zupan, Norbert M.; and Curtis, Norman S.,3,472,204.
Curtis One Thousand: *See—*
Paulson, Harold E., 3,456,869.
Curtis, Ralston; and Lukes, George E., deceased0 (by Jaeschke, Wayne C.; administrator), to Stauffer Chemical Company. Microbiocide and herbicidal compositions containing alkyliminodithiocarbonates and alkalisalts thereof. 3,482,960, 12-9-69, Cl. 71-100.
Curtis, Richard F., to Crouse-Hinds Company. Traffic signal system. 3,434,016, 3-18-69, Cl. 317-123.
Curtis, Robert. Aqua-tube sub-surface irrigation. 3,426,544, 2-11-69, Cl. 61-13.
Curtis, Russell R.; Schlensker, Albert L.; and Jung, James E., to Curtis Dyna-Products Corporation. Apparatus for producing an aerosol. 3,458,948, 8-5-69, Cl. 43-129.
Curtis, S., & Son, Incorporated: *See—*
Makowicki, James M., 3,467,248.
Curtis, Stanley R., to Tru-Lay Masonry Products Corporation. Grooved brick construction and composite thereof. 3,427,774, 2-18-69, Cl. 52-284.
Curtis, Thomas E., to Chance, A. B., Company. Encapsulated switch assembly for underground electric distribution service. 3,471,669, 10-7-69, Cl. 200-168.
Curtis, Thomas E., to Chance, A. B., Company. Corona free spark gap. 3,487,255, 12-30-69, Cl. 313-313.
Curtis, Truman P., to General Electric Company. Composite magnet structure. 3,454,825, 7-8-69, Cl. 315-39.71
Curtis, William L.; and Curtis, Billy Dean, 51% to Curtis, Mary Lou, and 49% to Contractors Services, Inc. Cable safety clamping device for oil wells and the like. 3,467,224, 9-16-69, Cl. 188-65.1
Curtiss, Alan Clarkson, to Hersey-Sparling Meter Company. Relief valve. 3,448,763, 6-10-69, Cl. 137-494.
Curtiss, Alan Clarkson; and Hood, Roger Williams, to Hersey-Sparling Meter Company. Clapper valve with changing bias. 3,478,778, 11-18-69, Cl. 137-527.4
Curtiss, Lawrence M.; Castellani, Edward J.; and Frey, William G., to Thomas & Betts Corporation. Grounding sheath connector. 3,446,910, 5-27-69, Cl. 174-75.
Curtiss-Wright Corporation: *See—*
Bentele, Max, 3,438,198.
Bentele, Max; Biehl, Richard E.; and Loprete, Joseph F., 3,456,445.
Biehl, Richard E., 3,460,349.
Hermes, Walter L.; and Jones, Charles, 3,486,326.
Jones, Charles; and Hermes, Walter, 3,456,625.
Jones, Charles, 3,456,626.
Jones, Charles, 3,465,729.
Jones, Charles, 3,482,551.
Kelley, George S., 3,451,222.
Kentfield, John A.; and Schaefer, Raymond F., 3,428,257.
Kulina, Mark R., 3,456,992.
Lingwood, William, 3,425,665.
Slepitis, Justin F., 3,420,716.
Vaughn, John H.; and Vaughn, John H., deceased, 3,466,224.
Curtius, Ulrich; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Quaternary ammonium ph osphonium and arsonium catalysts for the production of polycarbonates by the transesterification method. 3,442,854, 5-6-69, Cl. 260-47.
Curtland, Floyd E., to Lear Siegler, Inc. Reel assembly. 3,476,330, 11-4-69, Cl. 242-45.
Curtze, Edward W.; Huffman, Charles O.; and Mikus, Clifford A., to PPG Industries, Inc. Automatically sizing and severing glass sheets. 3,424,357, 1-28-69, Cl. 225-2.
Curtze, Edward W.; Wehner, George O.; and Barsom, John M., to PPG Industries, Inc. Method and apparatus for severing glass sheets. 3,454,219, 7-8-69, Cl. 225-1.
Curwen, Kenneth Robert, to Kollsman Instrument Corporation. Engine life recorder. 3,482,440, 12-9-69, Cl. 73-116.
Curwood, Inc.: *See—*
Curler, Howard J.; and Lineburg, Glenn E., 3,445,324.
Cuscino, Thomas A., to United States Steel Corporation. Vertical continuous casting assembly having a torch cut-off apparatus. 3,428,112, 2-18-69, Cl. 164-154.
Cushing, Donald S., to General Electric Company. Control system for an automatic dishwasher. 3,439,687, 4-22-69, Cl. 134-57.
Cushing, Donald S., to General Electric Company. Dishwashing machine. 3,451,400, 6-24-69, Cl. 134-58.
Cushing, Donald S.; and Jenkins, Thomas E., to General Electric Company. Pump for dishwasher. 3,434,671, 3-25-69, Cl. 241-46.
Cushing, Philip S.; and Stone, Harris E. Method of making cap for paper core. 3,449,817, 6-17-69, Cl. 29-416.
Cushing, Prentice, Jr., to Heller, G. K., Corporation. Speed control circuits for electric motors. 3,466,522, 9-9-69, Cl. 318-331.
Cushing, Russell Emery, to Pennsalt Chemicals Corporation. Electropneumatic transducer. 3,480,031, 11-25-69, Cl. 137-82.
Cushing, Vincent J. Electromagnetic flowmeter including hum compensation means. 3,479,871, 11-25-69, Cl. 73-194.
Cushioncraft Limited St. Helens: *See—*
Winter, Peter Heron, 3,481,423.
Cushman Electronics, Inc.: *See—*
Cushman, Le Roy T.; Wu, Joseph C.; and Welte, Robert F., 3,487,313.
Cushman, James E.: *See—*
Hender, Thomas A.; and Cushman, James E.,3,434,371.
Cushman, Kenneth V.; and Miller, Delmar S., to Rex Chainbelt Inc., mesne. Fastener. 3,465,637, 9-9-69, Cl. 85-72.
Cushman, Le Roy T.; Wu, Joseph C.; and Welte, Robert F., to Cushman Electronics, Inc. Frequency generating and measuring apparatus. 3,487,313, 12-30-69, Cl. 325-134.
Cushman, Robert H., to Western Electric Company, Incorporated. Pressure sealing. 3,439,731, 4-22-69, Cl. 164-108.
Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Terminating and encapsulating devices in a single manufacturing operation. 3,434,201, 3-25-69, Cl. 29-527.
Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Sensing device. 3,439,536, 4-22-69, Cl. 73-159.
Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Compensating base for simultaneously bonding multiple leads. 3,448,911, 6-10-69, Cl. 228-44.
Cushman, Robert; and Wasco, Anthony, Jr., to Saginaw Machine and Tool Company. Mounting pin assembly. 3,432,214, 3-11-69, Cl. 308-15.
Cushwa, George Victor. Apparatus for manufacturing brick. 3,465,395, 9-9-69, Cl. 25-2.
Cusi, Eduardo L., to Sarco Company, Inc. Self cleaning guide bushing. 3,470,899, 10-7-69, Cl. 137-238.
Cusick, Richard T., to United States of America, Navy, mesne. Switch for high energy circuits utilizing contact bounce reduction. 3,472,984, 10-14-69, Cl. 200-166.
Cussen, Arthur J., to Electro-Optical Industries, Inc. Temperature control arrangement. 3,476,914, 11-4-69, Cl. 219-499.
Cussen, Arthur J., to Electro-Optical Industries, Inc. Electromagnetic radiation emission device for generating black body electromagnetic radiation. 3,487,217, 12-30-69, Cl. 250-85.
Cussen, Arthur John; and Chandos, Robert Eugene, to Electro-Optical Industries, Inc. Absolute radiation calorimeter arrangement. 3,474,249, 10-21-69, Cl. 250-83.3
Custance, Raymond J. Motorized friction drive mower. 3,433,002, 3-18-69, Cl. 56-26.
Custard, George H., to United States of America, Army, mesne. Incendiary projectile. 3,421,439, 1-14-69, Cl. 102-66.
Custard, Herman C., to Mobil Oil Corporation. Apparatus for measuring gravity. 3,485,103, 12-23-69, Cl. 73-382.
Custard, Herman C.: *See—*
Faris, Sam R.; and Custard, Herman C.,3,481,206.
Custer, George M., to Hennessy Products, Inc. Boxcar door control. 3,468,062, 9-23-69, Cl. 49-362.
Custer, Lloyd R.: *See—*
Bell, Richard J.; Campbell, Robert L.; Brust, Albert E.; and Custer, Lloyd R.,3,455,699.
Custer, Richard W.: *See—*
Liskey, Ernest C., Jr.; and Custer, Richard W.,3,420,012.
Custer, Robert E., to General Motors Corporation. Potential regulator circuit. 3,427,528, 2-11-69, Cl. 321-18.
Custer, Stroud S., Jr., to Bell Telephone Laobratories, Incorporated. AM/PM conversion testing by transmitting high and low amplitude signals of different frequencies through the device under test and measuring the phase modulation induced in the low level signal. 3,437,921, 4-8-69, Cl. 324-58.
Custom Alarm and Manufacturing Co.: *See—*
Campana, Nicholas L.; Campano, Frank J.; and Lombardi, Louis F., 3,486,166.
Custom Engineering & Manufacturing Corporation: *See—*
Glasgow, Clarence O.; and Bucklin, Charles A., 3,443,789.
Custom Packaging, Inc.: *See—*
Garvey, John H., 3,469,344.
Custom Trim Products Inc.: *See—*
Kunevicius, Alex, 3,439,950.
Customark Corporation: *See—*
Skofronick, Bruce D., 3,441,427.
Skofronick, Bruce D., 3,443,979.

Skofronick, Bruce D., 3,464,841.
Skofronick, Bruce D., 3,486,923.
Customized Sealers Corporation: *See—*
Cooper, Kermit H., 3,428,512.
Cutcliffe, John E., to Peen Plate, Inc. Metal plating by a wet mechanical process. 3,443,985, 5-13-69, Cl. 117-109.
Cuthill, James Caithness: *See—*
Bamford, William Randall; and Cuthill, James Caithness,3,464,937.
Cuthill, James Caithness; and Thompson, James Mc Allan Cormack, to Imperial Chemical Industries Limited. Diorganopolysiloxane compositions. 3,440,191, 4-22-69, Cl. 260-18.
Cutkosky, Harold C. Reciprocating internal combustion electric generator. 3,465,161, 9-2-69, Cl. 290-1.
Cutler, Bertie Burger. Dry mop. 3,453,677, 7-8-69, Cl. 15-104.94
Cutler Controls, Inc.: *See—*
Auger, Raymond N., 3,422,666.
Auger, Raymond N., 3,460,375.
Cutler, Leonard S.: *See—*
Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F.,3,458,259.
Cutler, Morris: *See—*
Tamarin, Bernard J., 3,450,143.
Cutler, Royal A.; and Schalit, Samuel, to Sterling Drug Inc. Bridged bis-biguanides and bis-guanidines. 3,468,898, 9-23-69, Cl. 260-301.
Cutler-Hammer, Inc.: *See—*
Becknell, James L., 3,451,017.
Brown, Harry W.; and Thompson, Larry D., 3,447,057.
Brown, William E.; and Garnier, John J., 3,460,475.
Carter, Uriel F.; Kolb, Arthur F.; and Kunath, Elmer M., 3,478,292.
Coote, John M., 3,434,109.
Drees, John F.; and Kunath, Elmer M., 3,428,764.
Hanson, James R.; and Kolb, Arthur F., 3,478,179.
Hubbard, Charles J., 3,477,789.
Hults, Harold W., 3,483,345.
Hyer, Frank S.; and Tolan, Peter J., 3,477,533.
Kashkin, Ronald; Lombardo, Peter P.; and Pomeranz, Harry, 3,443,233.
Kaylie, Harvey L., 3,464,006.
Kintner, Paul M., 3,430,201.
Koertge, Nobel H., 3,437,773.
Koertge, Nobel H., 3,453,571.
Koertge, Nobel H., 3,483,434.
Kurpis, Gediminas P.; and Taub, Jesse J., 3,487,337.
Leslie, Myron W., 3,463,614.
Mading, James E., 3,436,497.
Mading, James E.; and Waldorf, Joseph F., 3,448,226.
Ostby, Marvin E., 3,453,569.
Piber, Earl T., 3,437,772.
Piber, Earl T., 3,437,775.
Risberg, Robert L., 3,470,449.
Siebers, Robert W.; and Spink, Robert W., 3,437,841.
Struble, Arthur D., Jr., 3,446,457.
Swinehart, Merle R.; and Richter, Walther, 3,475,677.
Cutlip, Stephen T.: *See—*
Kearns, Edwin W.; and Cutlip, Stephen T.,3,426,848.
Cutrona, Louis J.: *See—*
Blikken, Wendell A.; Cutrona, Louis J.; Ingalls, Arthur L.; Leith, Emmett N.; and Porcello, Leonard J.,3,427,104.
Cutrone, John N. Automatic reversible electric motor tool. 3,441,965, 5-6-69, Cl. 10-89.
Cutter, Paul R.; and Hamilton, Donald N., to Diamond Shamrock Corporation. Acid leaching of phosphate rock on an imperforate rubber belt. 3,420,638, 1-7-69, Cl. 23-312.
Cutters Machine Company, Inc.: *See—*
Martin, Thomas W., 3,460,774.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B., 3,468,529.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B., 3,479,023.
Rogers, Asa Scobey, Jr., 3,464,689.
Cutting Room Appliances Corporation: *See—*
Merrill, Edward M., 3,435,921.
Merrill, Edward M., 3,458,185.
Scordato, Emil A., 3,456,895.
Cuttino, William H., to Westinghouse Electric Corporation. High speed interphase switching arrangement. 3,473,089, 10-14-69, Cl. 317-12.
Cuvelier, Jean, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Device for the transmission by teleprinter. 3,483,321, 12-9-69, Cl. 178-26.
Cuzin, Daniel; Chauvin, Yves; and Lefebvre, Gilles, to Institut Francais du Petrole des Carburants et Lubrifiants. Stereospecific polymerization of 2-methyl-1, 3-pentadiene. 3,476,731, 11-4-69, Cl. 260-94.2
Cvach, Jaroslav, to Elitex, Sdruzeni podniku textilniho strojirenstvi. Electrical warp stop motion for textile machine. 3,429,146, 2-25-69, Cl. 66-163.
Cvejanovich, George J.: *See—*
Sand, Max; and Cvejanovich, George J.,3,447,070.
Cvetko, Henry J., to Astatic Corporation, The. Tapered fingers for resonant peak damping in piezoelectric transducers. 3,423,542, 1-21-69, Cl. 179-100.41
CVI Corporation: *See—*
Hood, Charles B., Jr.; and Simons, Ira W., 3,477,434.
Cwik, Joseph A., to Teledyne, Inc., mesne. Method and apparatus for bending tubing. 3,473,361, 10-21-69, Cl. 72-150.
Cwik, Joseph A.: *See—*
Maier, Dale E.; and Cwik, Joseph A.,3,457,753.
Maier, Dale E.; Van Stelle, Richard; and Cwik, Joseph A.,3,456,482.
Cwikla, Martin V.: *See—*
Klinger, Guenther H.; and Cwikla, Martin V.,3,429,708.
Cwycyshyn, Walter: *See—*
Newman, Stanley F.; Dion, Gerald H.; and Cwycyshyn, Walter,3,441,691.
Cyba, Henryk A., to Universal Oil Products Company. Antioxidant mixture of boron ester of an alkanolamine and a hydroxyphenone, and use thereof. 3,422,016, 1-14-69, Cl. 252-49.6
Cyba, Henryk A., to Universal Oil Products Company. Plastic and resin stabilized with borates of alkanolamines. 3,428,469, 2-18-69, Cl. 106-186.
Cyba, Henryk A., to Universal Oil Products Company. Preparation of polycyclic hydrocarbons. 3,428,700, 2-18-69, Cl. 260-670.
Cyba, Henryk A., to Universal Oil Products Company. Organic substrates containing borate of polyalkyl-polyhydroxy-alkyl-alkylenepolyamine. 3,445,422, 5-20-69, Cl. 260-45.9
Cyba, Henryk A., to Universal Oil Products Company. Boric acid esters. 3,445,498, 5-20-69, Cl. 260-462.
Cyba, Henryk A., to Universal Oil Products Company. Borates of N-hydroxyalkyl-nitrogen-heterocyclic saturated compounds. 3,446,808, 5-27-69, Cl. 260-250.
Cyba, Henryk A., to Universal Oil Products Company. Esters of polyhalopolyhydropolycyclic- dicarboxylic acids and a method for the preparation thereof. 3,474,125, 10-21-69, Cl. 260-468.
Cyba, Henryk A., to Universal Oil Products Company. Sec.-alkyl- or cycloalkyl-alkoxyalkylamines. 3,478,096, 11-11-69, Cl. 260-563.
Cyba, Henryk A., to Universal Oil Products Company. Arylaminoalkyl phosphites. 3,480,698, 11-25-69, Cl. 260-945.
Cyba, Henryk A., to Universal Oil Products Company. Stabilization or organic substances. 3,484,374, 12-16-69, Cl. 252-32.7
Cyba, Henryk A., to Universal Oil Products Company. Addition reaction product of oxyalkylenated phosphorus compounds and N-containing polymers and use thereof. 3,484,504, 12-16-69, Cl. 260-925.
Cyba, Henryk A., to Universal Oil Products Company. Addition reaction product of oxyalkylenated phosphorus compound and N-polymer of epihalohydrin and amine and use thereof. 3,484,505, 12-16-69, Cl. 260-925.
Cyba, Henryk A.; and Sparks, Allen K., to Universal Oil Products Company. N,N'-bis-imides of polyhalosubstituted polyhydropolycyclicdicarboxylic acids. 3,455,950, 7-15-69, Cl. 260-326.
Cygnor, John E.: *See—*
Noell, Godwin L.; Cygnor, John E.; and Sundberg, Jack G.,3,437,048.
Cymara, Hermann K. Silo structure and loading and unloading means therefor. 3,443,700, 5-13-69, Cl. 214-17.
Cymbalisty, Lubomyr M. O.;, 30% to Cities Service Athabasca, Inc., 30% to Imperial Oil Limited, 30% to Atlantic Richfield Corporation, and 10% to Royalite Oil Company, Limited. Solid interphase indicator controller. 3,430,814, 3-4-69, Cl. 222-64.
Cymbalisty, Lubomyr M. O., 30% to Cities Service Athabasca, Inc. 30% to Imperial Oil Limited 30% to Atlantic Richfield Company, and 10% to Royalite Oil Company. Discharge valve pulsator system. 3,433,245, 3-18-69, Cl. 137-242.
Cymmer, Thomas: *See—*
Lambert, Milton; Cymmer, Thomas; and Wilder, Ira,3,448,809.
Cynoski, Chester F.: *See—*
Russell, David A.; and Cynoski, Chester F.,3,458,608.
Cyphelly, Ivan Jaroslav. Rotary piston machine. 3,447,471, 6-3-69, Cl. 103-125.
Cyphert, Henry. Feeding dispenser. 3,467,280, 9-16-69, Cl. 222-57.
Cyr, Joseph, to Sperry Rand Corporation. Harvester drive system. 3,473,305, 10-21-69, Cl. 56-23.
Cyril Bath Company, The: *See—*
Bath, Cyril J.; and Leonard, John H., 3,426,570.
Brauer, Edwin H.; and Huggett, T. Virgil, 3,426,569.
Brauer, Edwin H., 3,448,603.
Mackenzie, Robert A., 3,452,573.
Mackenzie, Robert A., 3,452,574.
Cyrway, Edward N., Jr.; and Metalsky, William J., to Abar Corporation. Electric resistance heating elements. 3,476,862, 11-4-69, Cl. 13-25.
Cytrin, Oscar, to Compagnie des Compteurs. Reversible driving device for magnetic tape recorders. 3,482,840, 12-9-69, Cl. 274-4.
Cywinski, Norbert F., to El Paso Products Company. Process for producing pure hexamethylenediamine. 3,450,767, 6-17-69, Cl. 260-585.

Czachowska, Barbara: *See*—
Kokosinski, Jacek; Orlowski, Jan; Czachowska, Barbara; and Hancyk, Boleslaw,3,424,793.
Czaloun, Giovanni Gunter. Adhesion drive for automotive cable cars. 3,476,039, 11-4-69, Cl. 104-226.
Czarnecki, Adolph; Jones, Kenneth L.; and Michaels, Michael, to Standard Alliance Industries, Inc., mesne. Conveyor construction. 3,435,780, 4-1-69, Cl. 104-172.
Czarnecki, Jerzy J., to De Laval Turbine Inc. Compressor seal oil system with power recovery. 3,473,729, 10-21-69, Cl. 230-204.
Czarnecki, Jerzy J.; and Arkwright, Peter, to De Laval Turbine, Inc. Pump. 3,476,053, 11-4-69, Cl. 103-44.
Czarnecki, John D., to Sherwin-Williams Company, The. Receptacles and method of making same. 3,448,891, 6-10-69, Cl. 220-74.
Czarnowski, Stanley R. Vapor deposition material support. 3,486,001, 12-23-69, Cl. 219-271.
Czeck, Julian G.: *See*—
Martin, John E.; and Czeck, Julian G.,3,473,555.
Czedik-Eysenberg, Peter: *See*—
Eichler, Friedrich; Seip, Paulus Johannes; and Czedik-Eysenberg, Peter,3,423,442.
Czegledy, Geza. Easy opener for can tops. 3,434,622, 3-25-69, Cl. 220-54.
Czehovsky, Gunther: *See*—
Hass, Karl; Kohlgagen, Walter; Czehovsky, Gunther; and Konermann, Hans-Ewald,3,436,324.
Czerna, Aladar L.: *See*—
Bartusek, Robert J.; and Czerna, Aladar L.,3,475,589.
Czerniewicz, John F. Driven cutting tool. 3,477,481, 11-11-69, Cl. 144-144.
Czernin, Alexander Friedrich, to Pasolds Limited. Method of and apparatus for compressively shrinking fabric. 3,448,499, 6-10-69, Cl. 26-18.6
Cziesla, Manfred J.: *See*—
Watters, James W.; Farncomb, Robert E.; and Cziesla, Manfred J.,3,420,621.
Czigler, Steven R., to Robroy Industries. Adjustable clamp for elongated articles. 3,429,985, 2-25-69, Cl. 174-164.
Czikk, Alfred M.: *See*—
Kun, Leslie C.; and Czikk, Alfred M.,3,454,081.
Czingula, Janos. Automobile parking accident alarm system. 3,478,311, 11-11-69, Cl. 340-51.
Cziptschirsch, Kurt; and Mahler, Gert, to Gebr. Happich G.m.b.H. Device for the retracting of straps such as safety belts used in automobiles. 3,487,444, 12-30-69, Cl. 242-107.11
Cziska, Johann: *See*—
Querengasser, Hugo; Krause, Johannes; Frank, Klaus; and Cziska, Johann,3,431,103.
Czorny, Bohdan R.: *See*—
Blicher, Adolph; and Czorny, Bohdan R.,3,427,515.
Czorny, Bohdan R.; and Cave, Eric F., to Radio Corporation of America. PN-junction semiconductor with polycrystalline layer on one region. 3,443,175, 5-6-69, Cl. 317-235.
Czubak, Albin S.; and Militzer, Robert W., to Micromatic Hone Corporation. Method and apparatus for parallel face finishing. 3,456,402, 7-22-69, Cl. 51-326.
Czuszak, Charles C., to Carrier Corporation. Overspeed responsive steam turbine control valve. 3,461,893, 8-19-69, Cl. 137-31.
D-One Hundred and Fifty, Inc.: *See*—
Vetter, Richard H., 3,475,086.
Daams, Jasper, to U.S. Philips Corporation, mesne. Method of combating the growth of Echinochloa crusgalli. 3,472,645, 10-14-69, Cl. 71-90.
Daane, Robert A., to Beloit Corporation. Method and equipment for drying web material. 3,447,247, 6-3-69, Cl. 34-122.
Daane, Rose R. Ceramic tile scrubber. 3,444,576, 5-20-69, Cl. 15-28.
Dab-O-Matic Corp.: *See*—
Schwartzman, Gilbert, 3,438,554.
Dabinett, George B.: *See*—
Hetz, Heinz K.; Brand, Warren H.; and Dabinett, George B.,3,467,017.
Dabney, Eugene E.; Fields, James R.; Gerber, Loris L.; and Newins, Charles E., to Prescon Corporation, The. Apparatus for stressing tension members. 3,456,918, 7-22-69, Cl. 254-29.
Dabney, John B.: *See*—
Beetle, Robert H.; and Dabney, John B.,3,460,605.
Beetle, Robert H.; and Dabney, John B.,3,480,070.
Dabrowski, John H.: *See*—
Dillon, Helen T.; and Dabrowski, John H.,3,425,140.
Dachs, Karl; Wilhelm, Hans; Wick, Kurt; Schwenke, Wolfgang; and Naeder, Max, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Artificial limbs of expanded polyamides. 3,440,668, 4-29-69, Cl. 3-1.
Dachs, Karl: *See*—
Wilhelm, Hans; Bille, Heinz; Hann, Ernst Wilhelm; and Dachs, Karl,3,450,561.
Dachtler, Emil. Power operated clothes press. 3,477,153, 11-11-69, Cl. 38-41.
Daco, Inc.: *See*—
Rickett, Edward, 3,428,997.
Rickett, Edward, 3,430,285.
Dacons, Joseph C., to United States of America, Navy. Dodecanitroquaterphenyl. 3,450,778, 6-17-69, Cl. 260-645.
D'Acunto, Salvatore. Automatic dialling device. 3,454,725, 7-8-69, Cl. 179-90.
Dacus, Amon D., to Thompson Hayward Chemical Co. Control of rice blast disease on rice plants using triphenytin compounds. 3,483,295, 12-9-69, Cl. 424-288.
Dacus, Wilburn W.: *See*—
Thompson, Max W.; and Dacus, Wilburn W.,3,464,468.
D'Adamo, Joseph B., to General Electric Company. Cabinet for a television receiver. 3,446,546, 5-27-69, Cl. 312-323.
Daddis, Eugene, to American Shuffleboard Co., Inc. Ball game with blocking means and magnetic deflector. 3,424,456, 1-28-69, Cl. 273-11.
Daddona, Domenic J., Jr., to Scovill Manufacturing Company. Non-removable tag. 3,470,637, 10-7-69, Cl. 40-20.
Daddona, Domenic J., Jr.; and Andrews, Hugh H., to Scovill Manufacturing Company. Waistband fastener. 3,454,994, 7-15-69, Cl. 24-224.
Dadds, Floyd S.: *See*—
Reinsma, Harold L.; Dadds, Floyd S.; and Johnson, Logan J.,3,463,560.
Dade Reagents, Inc.: *See*—
Ferro, Patrick V.; and Ham, Anna B., 3,436,187.
Dadekian, Zaven A., to Baird Chemical Industries, Inc. Amime separation. 3,440,283, 4-22-69, Cl. 260-583.
Dadekian, Zaven A.; and Wilbourn, David S., to Baird Chemical Industries, Inc. Preparation of alkyl chlorides by the reaction of alkyl alcohols with phosphorus trichloride. 3,432,561, 3-11-69, Cl. 260-652.
Dadekian, Zaven A.; and Wilbourn, David S., to Baird Chemical Industries, Inc. Amination of alky halides. 3,471,561, 10-7-69, Cl. 260-583.
Dadekian, Zaven A.; and Wilbourn, David S., to Baird Chemical Industries, Inc. Preparation of trialkylamines. 3,472,900, 10-14-69, Cl. 260-585.
d'Adler-Racz, Joseph H., to Usiness Balteau Societe Anonyme. Compact and lightweight radiography apparatus. 3,465,152, 9-2-69, Cl. 250-90.
Dadura, James G., to Texaco Inc. Lubricating oil containing overbased sulfurized calcium alkylphenolate. 3,474,035, 10-21-69, Cl. 252-42.7
Dadura, James G.; Knowles, Edwin C.; and McCoy, Frederic C., to Texaco Inc. Lubricant compositions containing amine salts. 3,422,017, 1-14-69, Cl. 252-49.9
Dadura, James G.: *See*—
Hellmuth, Walter W.; Kivelevich, Doris; Dadura, James G.; and Morissette, Bertrand G.,3,480,548.
Dadykin, Georgy Fedetovich: *See*—
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.
Daellenbach, Francis O. Selective thinner for row crops. 3,444,933, 5-20-69, Cl. 172-6.
Daendliker, Gustav; and Fuerer, Heini, to Ciba Limited. Method for the manufacture of tantalum powder for condenser purposes. 3,430,108, 2-25-69, Cl. 317-230.
Daeniker, Hans Ulrich, to Ciba Corporation. 1-hydrazino-adamantan and salts thereof. 3,423,458, 1-21-69, Cl. 260-563.
Daeniker, Hans Ulrich, to Ciba Corporation. Phthalazinium compounds. 3,449,343, 6-10-69, Cl. 260-250.
Daeniker, Hans Ulrich, to Ciba Corporation. Novel phenylalanine compounds. 3,454,629, 7-8-69, Cl. 260-519.
Daeniker, Hans Ulrich: *See*—
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,455,946.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,480,640.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,483,221.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; and Witsch, Guenter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyeing and printing synthetic polyamide fibres. 3,478,376, 11-18-69, Cl. 8-55.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; Witsch, Heinz-Guenter; and Theilig, Dietmar, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyeing and printing fibers of natural and synthetic polyamides. 3,442,600, 5-6-69, Cl. 8-54.
Da Fano, Ettore, to Sierracin Corporation, The. Resin composition. 3,437,715, 4-8-69, Cl. 260-863.
Dafler, Gene L., to General Motors Corporation. Resilient snubber for governor assembly. 3,426,602, 2-11-69, Cl. 73-526.
Daggs, Kenneth L.: *See*—
Carlisle, Benjamin H.; Daggs, Kenneth L.; and Sauter, John D.,3,446,985.
Daghe, Joseph L.: *See*—
Luckenbill, Lawrence F.; and Daghe, Joseph L.,3,439,947.

Daghistani, Ihsan Shakeeb. Water fountains for plane and concave sheets. 3,434,662, 3-25-69, Cl. 239-17.
Dagiel, Richard T.: *See*—
Bowden, George F.; and Dagiel, Richard T.,3,430,910.
Bowden, George F.; and Dagiel, Richard T.,3,467,054.
Dagiel, Richard T., to Symons Mfg. Company. Concrete form panel with snap-in facing. 3,477,684, 11-11-69, Cl. 249-189.
Daglian, John S.; Grace, John W.; and Clasen, Carl P., to United States of America, Army, mesne. Contradirectional waveguide coupler. 3,427,570, 2-11-69, Cl. 333-10.
Dagma Deutsche Automaten und Getrankemaschinen G.m.b.H. & Co.: *See*—
Niehaus, Wolfgang; and Kuckens, Alexander, 3,461,922.
Dagnall, Robert J.: *See*—
Seiger, Harvey N.; and Dagnall, Robert J.,3,451,901.
Dagnoli, Donato F.; Jaeschke, Charles R.; and Hooks, Arthur K., to Sprague Electric Company. Component mounting assembly and method. 3,483,966, 12-16-69, Cl. 206-56.
D'Agostino, Jack V.:*See*—
Perini, Harry R.; Stangel, John J.; Timms, Robert J.; and D'Agostino, Jack V.,3,453,636.
D'Agostino, Michael V., to Radio Corporation of America. Emitter follower circuit having substantially constant current emitter supply. 3,431,505, 3-4-69, Cl. 330-14.
D'Agostino, Vincent Francis, to Arizona Chemical Company, mesne. Compositions containing tall oil pitch and epoxy ether resins. 3,445,409, 5-20-69, Cl. 260-18.
Dahan, Paul C., to Mobil Oil Corporation. Apparatus and process for confining floating liquid products. 3,476,246, 11-4-69, Cl. 210-83.
Dahill, Robert T., Jr.: *See*—
Kitchens, Garry C.; and Dahill, Robert T., Jr.,3,475,484.
Dahl, Einar S., to Outboard Marine Corporation. Lawn mower grass catching bag. 3,421,302, 1-14-69, Cl. 56-202.
Dahl, Erik Qvale, 1/2 to Grace, W. R., & Co., and 1/2 to Elektrokemisk, Inc. Process for pelletizing phosphate rock. 3,443,923, 5-13-69, Cl. 71-33.
Dahl, Ernest A., Jr. File container. 3,446,160, 5-27-69, Cl. 104-235.
Dahl, Ernest A., Jr. Magnetic index cards and method for producing same. 3,455,770, 7-15-69, Cl. 161-36.
Dahl, Ernest A., Jr. File structure. 3,465,460, 9-9-69, Cl. 40-105.5
Dahl, Ernest A., Jr. File container assembly. 3,477,567, 11-11-69, Cl. 209-111.8
Dahl, Frank L. Positionally adjustable trouble lamp means. 3,479,499, 11-18-69, Cl. 240-10.6
Dahl, Frank L. Retaining and snap-ring pliers with selectively usable tip means for cooperation with various different retaining and/or snap rings. 3,484,924, 12-23-69, Cl. 29-229.
Dahl, Gerd Helmut: *See*—
Block, Burton Peter; and Dahl, Gerd Helmut,3,457,195.
Dahl, Gerd Helmut, to Pennsalt Chemicals Corporation. Tetra(phenylphosphinates) of titanium and zirconium. 3,426,050, 2-4-69, Cl. 260-429.3
Dahl, Hans, to Escher Wyss G.m.b.H. Fine-spreading and retarding device for the pulp suspension stream in a papermaking machine. 3,432,384, 3-11-69, Cl. 162-338.
Dahl, Henry A.: *See*—
Keur, Robert I.; and Dahl, Henry A.,3,465,351.
Dahl, James J.: *See*—
Amos, James L.; Baretta, Edward D.; and Dahl, James J.,3,428,707.
Dahl, Joseph D., to Bio Data, Inc. Stethoscope structure. 3,472,336, 10-14-69, Cl. 181-24.
Dahl, Julius: *See*—
Hucks, Helmut; Noa, Fritz; and Dahl, Julius,3,460,435.
Dahl, Norman C. Fixed force level nut. 3,431,812, 3-11-69, Cl. 85-62.
Dahl, Rolf, to Anchor Continental, which is the trade name under which business is done by Continental Tapes, Incorporated. Polyurethane-based pressure-sensitive adhesives. 3,437,622, 4-8-69, Cl. 260-24.
Dahl, Walter L.: *See*—
Bechard, John J.; Dahl, Walter L.; Martin, James S.; Workman, Clark S.; and Sankey, David J.,3,445,951.
Dahl, Warren F., to Standard Pressed Steel Co. Pre-load indicator. 3,469,492, 9-30-69, Cl. 85-62.
Dahlberg, Arnold R. Golf practice apparatus. 3,484,109, 12-16-69, Cl. 273-176.
Dahlberg, Barry A.: *See*—
Simonson, Leroy W.; and Dahlberg, Barry A.,3,461,747.
Dahlberg, Bengt Ingmar, to Alfa-Laval AB. Centrifuge. 3,437,267, 4-8-69, Cl. 233-21.
Dahlberg, Donald E.: *See*—
Lewis, George D.; and Dahlberg, Donald E.,3,446,024.
Dahlberg, Reinhard, to Telefunken Patentverwertungsgesellschaft m.b.H. Controllable tunnel diode. 3,460,008, 8-5-69, Cl. 317-235.
Dahlblom, Rolf August; Edstrom, Nils Herbert; and Silwer, Jan, to Telefonaktiebolaget L M Ericsson. Intermediate exchange for telecommunication. 3,469,021, 9-23-69, Cl. 178-2.
Dahlbom, Johan Richard; and Karlen, Bo Lennart, to Aktiebolaget Astra Apothekarnes Kemiska Fabriker. Acetylenic imides, and method for their preparation. 3,444,171, 5-13-69, Cl. 260-281.
Dahle, Joseph. Titanate product and method of making the same. 3,460,956, 8-12-69, Cl. 106-287.
Dahlem, Billy J., to Power-Curve Conveyor Company. Endless spring belt and connector. 3,482,462, 12-9-69, Cl. 74-238.
Dahlem, Francis E., to American Air Filter Company, Inc. Sealing device for roll-type filter. 3,421,297, 1-14-69, Cl. 55-354.
Dahlem, Francis E.; and Gonzalez, Don J., to American Air Filter Company, Inc. Liquid filter apparatus. 3,464,563, 9-2-69, Cl. 210-400.
Dahlen, Phillip B. Optical phonograph apparatus with polarized light. 3,452,163, 6-24-69, Cl. 179-100.4
Dahlgren, John V. S., to Ranco Incorporated. Oven control apparatus. 3,461,415, 8-12-69, Cl. 337-310.
Dahlgren, Lennart G. O. Mechanisms for camera shutters. 3,433,085, 3-18-69, Cl. 74-89.19
Dahlgren, Victor F.: *See*—
Tally, Sidney K.; Dahlgren, Victor F.; and Stearns, Thomas H.,3,433,888.
Dahlheimer, John Charles, to International Packings Corporation. Hydraulically balanced radial seal. 3,443,814, 5-13-69, Cl. 277-27.
Dahlia Kibbutz Hashomer Hazair, Kvutzat Poalim Le':*See*—
Holzman, Suzana; and Milwidsky, Ben-Zion, 3,422,138.
Dahlin, Olof Gustaf, to Aktiebolaget Orga. Book holder. 3,460,795, 8-12-69, Cl. 248-452.
Dahlin, Robert Walton: *See*—
Davis, Glenn Gary; and Dahlin, Robert Walton,3,431,916.
Dahlquist, Evald. Scaling ladder. 3,472,340, 10-14-69, Cl. 182-207.
Dahlquist, John A.: *See*—
Culshaw, William; Dahlquist, John A.; and Peterson, Don G.,3,463,924.
Dahlquist, Robert L.: *See*—
Gruner, Frederick R.; and Dahlquist, Robert L.,3,484,966.
Dahlquist, Robert L., to Case, J. I., Company. Crop separator. 3,478,750, 11-18-69, Cl. 130-26.
Dahm, Manfred; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Storage stable foam stabilizing agent for cellular polyurethane plastics. 3,420,782, 1-7-69, Cl. 252-400.
Dahms, Harald, to International Business Machines Corporation. Electrode with integral flow channel. 3,458,421, 7-29-69, Cl. 204-195.
Dahms, James Bowen; and Edmonds, Byron Priestly, to PPG Industries, Inc. Method of solution mining potassium chloride. 3,433,530, 3-18-69, Cl. 299-4.
Dahms, Ronald H.: *See*—
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R.,3,429,858.
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R.,3,449,300.
Dahowski, Edward L.: *See*—
Feagin, Roy C.; Dahowski, Edward L.; and Kosmos, Peter,3,432,312.
Dai Nihon Bungu Co., Ltd.: *See*—
Matsumoto, Hiroyuki, 3,421,823.
Dai Nihon Bungu Kabushiki Kaisha: *See*—
Wakai, Noboru, 3,463,597.
Yamashita, Nagahiro, 3,477,791.
Dai Nippon Seito Kabushiki Kaisha Nitto Institute of Chemical Research, The: *See*—
Matsubayashi, Tadao; and Suzuki, Yahiko, 3,433,707.
Dai Nippon Toryo Kabushiki Kaisha: *See*—
Kato, Haruhiro, 3,475,154.
Ozawa, Lyuji; Toshinai, Akio; and Nagashima, Yoshihisa, 3,470,411.
Ozawa, Lyuji; and Toshinai, Akio, 3,483,415.
Dai-Ichi Kogyo Seiyaku Co., Ltd.: *See*—
Watanabe, Yutaka, 3,483,099.
Daicel Ltd.: *See*—
Konishi, Hikoichi; Harada, Yuichi; Sunahara, Tamotsu; Sakaguchi, Yasuhiro; and Ishihara, Tetsuo, 3,459,591.
Tanaka, Atsushi; and Kudo, Teizo, 3,465,066.
Daido Namarikakoki Company, Limited: *See*—
Aoyama, Yoshio, 3,459,509.
Daido Seiko Kabushiki Kaisha: *See*—
Asada, Chiaki; and Watanabe, Toshiyuki, 3,454,432.
Daigh, Harold D., to Atlantic Richfield Company. Fuel gasifier system. 3,446,196, 5-27-69, Cl. 123-119.
Daigh, Harold D., to Atlantic Richfield Company. Vehicle vapor recovery system. 3,448,731, 6-10-69, Cl. 123-136.
Daigh, Harold D., to Atlantic Richfield Company. Control mechanism for exhaust recycle system. 3,457,906, 7-29-69, Cl. 123-119.
Daigh, Harold D.; and Collins, Clifford H., to Atlantic Richfield Company. Exhaust recycle control mechanism. 3,465,736, 9-9-69, Cl. 123-119.
Daigle, Amerst: *See*—
Gehweiler, Edward C.; and Daigle, Amerst,3,453,660.

Daigle, Edwin E.: *See—*
Bernard, Hugh A.; Daigle, Edwin E.; and Richardson, Jacob C.,3,438,452.
Daigle, Louis L.: *See—*
Rosica, Gabriel A.; and Daigle, Louis L.,3,486,108.
Daiho Construction Company, Limited: *See—*
Yamagata, Kazumi; and Kamisaka, Kazuo, 3,464,212.
Daiichi Kagaku Yakuhin Co., Ltd.: *See—*
Hasegawa, Masaru; Hirota, Sadao; and Ogawa, Hiroshi, 3,421,282.
Daiichi Seiyaku Company, Limited: *See—*
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru, 3,426,023.
Naito, Takeo; Okano, Atsuji; and Miki, Tosaku, 3,449,411.
Okano, Atsuji; Moroi, Reimei; and Naito, Takeo, 3,448,144.
Okuda, Noriyuki; Kuniyoshi, Ieji; Saito, Tadashi; and Oguri, Koji, 3,480,645.
Okuda, Noriyuki; Kuniyoshi, Ieji; and Tsukamoto, Hisashi, 3,481,976.
Takahashi, Hidehiko; Kaga, Shinichiro; and Hirota, Sadao, 3,466,364.
Daiichi Tanso Kogyo Kabushiki Kaisha: *See—*
Kato, Tsutomu, 3,436,356.
Daiichi Yakuhin Sangyo Kabushiki Kaisha: *See—*
Makabe, Kazuo, 3,423,441.
Daikin Kogyo Co., Ltd.: *See—*
Aoyama, Shiro; and Yamamoto, Toshio, 3,481,883.
Kageyama, Ikuzo; and Maruo, Keiichi, 3,485,872.
Kometani, Yutaka; Koizumi, Shun; Fumoto, Syozo; Tanigawa, Singo; and Nakajima, Takeaki, 3,462,401.
Ohta, Masanori, 3,455,792.
Shingu, Haruo; Hisazumi, Makoto; and Hisamoto, Iwao, 3,446,858.
Watanabe, Shiro; and Misaki, [illegible]umu, 3,435,032.
Daikin Kogyo Kabushiki Kaisha: *See—*
Aiso, Hiroshi; Nomura, Shunichi; and Takeuchi, Toshinobu, 3,469,939.
Kato, Kaoru; and Ogawa, Shi[illegible]oshi, 3,455,840.
Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Shoshin; Kato, Takahisa; and Nagai, Masayuki, 3,457,247.
Okamura, Kazuo, 3,445,527.
Okamura, Kazuo, 3,465,052.
Watanabe, Shiro; and Tomoda, Toshiyuki, 3,455,982.
Yamada, Akira; and Aruga, Tsuyoshi, 3,440,088.
Dailey, Gordon S. Pencil sharpener. 3,467,843, 9-16-69, Cl. 310-50.
Dailey, Jack R., to International Business Machines Corporation. Full adder using field effect transistor of the insulated gate type. 3,427,445, 2-11-69, Cl. 235-175.
Dailey, Jack R.; and Lake, Richard L., to International Business Machines Corporation. Analog time-division multiplier with recirculating storage. 3,465,136, 9-2-69, Cl. 235-194.
Dailey, John J. Fishlure. 3,445,953, 5-27-69, Cl. 43-42.06
Dailey, John L., to United States of America, Air Force. Compensated generalized savart plate. 3,429,635, 2-25-69, Cl. 350-157.
Dailey, John L., to Radio Corporation of America. Modulating or Q switching a laser. 3,437,951, 4-8-69, Cl. 331-94.5
Dailey, Robert W., to Far Gard Company. Disposable filter for tobacco-smoking device. 3,434,480, 3-25-69, Cl. 131-187.
Daily, Buddy Z.: Memphis, Tenn.. Vertical air circulation fan. 3,421,687, 1-14-69, Cl. 230-117.
Daimler-Benz Aktiengesellschaft: *See—*
Allen, Derek R., 3,437,172.
Altmann, Werner E., 3,451,513.
Altmann, Werner E., 3,457,807.
Andres, Rudolf, 3,443,834.
Andres, Rudolf, 3,478,470.
Bader, Otto; Guhne, Hans-Peter; Sommerfeld, Karl; and Chilla, Johannes, 3,430,436.
Barenyi, Bela, 3,446,528.
Barenyi, Bela, 3,448,996.
Barenyi, Bela; and Wilfert, Karl, 3,473,821.
Barenyi, Bela, 3,479,054.
Bensinger, Wolf-Dieter; Dobler, Helmut; and Lamm, Heinz, 3,420,214.
Bensinger, Wolf-Dieter; and Schmidt, Karl-Walter, 3,444,842.
Bensinger, Wolf-Dieter, 3,445,058.
Bensinger, Wolf-Dieter; Lamm, Heinz; and Hohenle, Hubert Zu, 3,446,190.
Bensinger, Wolf-Dieter, 3,461,848.
Bensinger, Wolf-Dieter, 3,469,505.
Bensinger, Wolf-Dieter; Derndinger, Hans-Otto; Zeilinger, Karl; Bader, Hans; and Kempin, Karl, 3,481,312.
Buching, Franz, 3,476,224.
Buhl, Wilhelm, 3,476,396.
Daur, Hans-Karl, 3,478,539.
Dinger, Hans; and Deutschmann, Herbert, 3,478,542.
Eibl, Josef; and Albrecht, Wilhelm, 3,483,770.
Eltze, Georg, 3,486,459.
Enke, Kurt, 3,435,733.
Enke, Kurt, 3,446,035.
Forster, Hans-Joachim M.; and Eltze, Ulrich, 3,420,251.
Forster, Hans-Joachim M.; and Katz, Klaus, 3,444,786.
Forster, Hans-Joachim M.; and Zaiser, Wolfgang, 3,469,473.
Forster, Hans-Joachim M.; and Katz, Klaus, 3,476,203.
Forster, Hans-Joachim M.; and Zaiser, Wolfgang, 3,483,771.
Forster, Hans-Joachim M., 3,486,399.
Fricker, Ludwig, 3,483,853.
Frings, Horst, 3,486,488.
Froitzheim, Hans, 3,481,819.
Froitzheim, Hans, 3,434,559.
Gotz, Alfred, 3,420,295.
Grieb, Hubert J., 3,476,334.
Harting, Werner, 3,476,178.
Heim, Gerhard, 3,438,150.
Hering, Hans, 3,453,826.
Hiereth, Hermann, 3,469,564.
Hitzelberger, Erwin, 3,476,435.
Holm, Christian, 3,428,016.
Hopf, Wilhelm, 3,420,340.
Jurisch, Wilhelm, 3,469,771.
Katz, Klaus; and von Koch, Arwed, 3,444,785.
Klink, Manfred, 3,473,372.
Kolle, Erwin, 3,459,161.
Kraus, Ludwig; and van Winsen, Friedrich H., 3,428,142.
Lebig, Herbert, 3,450,118.
Muller, Alfred H., 3,458,181.
Muller, Josef; Sorsche, Joachim; and Muller, Alf John, 3,473,620.
Nallinger, Friedrich K. H.; Muller, Alfred H.; Wirlitsch, Roland; and Hohn, Helmut, 3,420,327.
Oblander, Kurt, 3,461,850.
Reisacher, Josef, 3,425,402.
Reisacher, Josef; and Dziggel, Reiner, 3,455,286.
Reisacher, Josef; and Gwinner, Dietrich, 3,473,409.
Roder, Karl, 3,468,565.
Rudert, Wolfgang, 3,428,032.
Ruger, Frank; Guhne, Hans-Peter; and Lebig, Herbert, 3,442,258.
Saufferer, Halmut, 3,440,817.
Scarpatetti, Diether, 3,484,092.
Scherenberg, Hans O., 3,423,927.
Scherenberg, Hans O., 3,425,400.
Scherenberg, Hans O., 3,446,313.
Schmitz, Christian, 3,468,513.
Schrimpf, Hermann, 3,460,851.
Strifler, Paul E.; and Scarpatetti, Diether, 3,420,543.
Strifler, Paul E., 3,424,449.
Strifler, Paul E.; Drometer, Klaus; and Scarpatetti, Dieter, 3,473,634.
Thoma, Frank, 3,438,359.
Thoma, Frank, 3,450,120.
Thoma, Frank, 3,483,855.
Tiefenbacher, Eberhard, 3,473,604.
van Winsen, Friedrich H., 3,447,796.
Van Winsen, Friedrich H.; and Haverbeck, Gunther, 3,481,622.
Wilfert, Karl, 3,426,862.
Wilfert, Karl; and Barenyi, Bela, 3,448,992.
Wilfert, Karl, 3,449,881.
Wilfert, Karl, 3,459,067.
Wilfert, Karl, 3,476,402.
Dain, Harvey W.: *See—*
Hallock, David D.; and Dain, Harvey W.,3,453,490.
Dain, John E.; and Milne, William S., to Black Clawson Company, The. Drum brake assembly. 3,430,738, 3-4-69, Cl. 188-75.
Dainichiseika Color & Chemicals Mfg. Co., Ltd.: *See—*
Tanaka, Hideo; and Inagaki, Katsushiro, 3,444,157.
Dainihon Bungu Kabu Shikigaisha: *See—*
Tsukahara, Osamu, 3,442,596.
Dainihon Bungu Kabushiki Kaisha: *See—*
Horie, Yukio, 3,446,564.
Dainihon Jochugiku Company, Limited: *See—*
Katsuda, Yoshio, 3,431,393.
Dainihonbungu Kabushiki Kaisha: *See—*
Tsukahara, Yasushi, 3,446,878.
Dainippon Ink & Chemicals, Incorporated: *See—*
Sumi, Hiroji; Takahi, Yukiyoshi; Kondo, Yasuhiko; Hamamoto, Yoshio; and Nishimura, Tsunehiko, 3,426,135.
Dainippon Ink Institute of Chemical Research: *See—*
Onodera, Norio; and Nishide, Motohiko, 3,456,040.
Dainippon Pharmaceutical Co., Ltd.: *See—*
Minami, Shinsaku; Fujita, Akio; Shimizu, Masanao; and Takase, Yoshiyuki, 3,464,982.
Nishimura, Haruki; Kinugasa, Hiroaki; and Onishi, Kumio, 3,468,889.
Shoji, Osamu; Yokogawa, Kanae; Sunahara, Noriyuki; and Ogata, Loichi, 3,438,860.
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki, 3,470,164.
Ueno, Hakaru; and Ose, Shinsuke, 3,463,853.

Dairy Technics Inc.: *See—*
Farr, Stewart M., 3,420,742.
Daisy Manufacturing Company: *See—*
Daniel, Richard I.; and Wesley, Robert O., 3,465,741.
Daito Chemical Industry Co., Ltd.: *See—*
Ito, Shinya; Kanno, Katsuo; and Nakagawa, Ryoichi, 3,481,683.
Daiwa Can Co., Ltd.: *See—*
Miki, Osamu, 3,454,190.
Dake, Lee J., to Joslyn Mfg., and Supply Co. Adjustable spacer assembly. 3,428,283, 2-18-69, Cl. 248-214.
Dakin, Robin Michael, to Bristol Siddeley Engines Limited. Combustion chamber. 3,447,317, 6-3-69, Cl. 60-39.65
Dakin, Thomas W.: *See—*
Berg, Daniel; and Dakin, Thomas W.,3,469,047.
Dakin, William V.: *See—*
Anderson, William R.; Pescetti, Anthony; and Dakin, William V.,3,428,729.
Dakli, Ibrahim; Ercole, Pietro; and Jacobelli, Franco, to Montecatini Edison S.p.A. Purification of melamine solutions. 3,423,411, 1-21-69, Cl. 260-249.7
Dakli, Ibrahim; Lupi, Nazareno; and Morini, Marcello, to Montecatini Edison S.p.A. Stable aqueous formaldehyde solutions and a process for preparing them. 3,423,467, 1-21-69, Cl. 260-606.
Dakon-Adams Co.: *See—*
Paul, Lowell A.; and Adams, Loyd, 3,429,459.
Dal Mon Research Co.: *See—*
D'Alelio, Gaetano F., 3,429,754.
D'Alelio, Gaetano F., 3,462,952.
D'Alelio, Gaetano F., 3,479,235.
Dal Monte, Giorgio; and Callegari, Luciano, to Societa Italiana Telecommunicazioni Siemens S.p.A. Calling dial of the dead-angle type. 3,430,003, 2-25-69, Cl. 179-90.
Dal Negro, Ruggero, to Italo American Prentice S.p.A. Loom attachment for weaving slide-fastener elements onto tapes. 3,480,045, 11-25-69, Cl. 139-116.
D'Alba, Anthony R., to Trico Products Corporation. Fluid system. 3,478,648, 11-18-69, Cl. 91-411.
Dalberg, Herbert: *See—*
Dalberg, Le Roy E.; and Dalberg, Herbert,3,477,649.
Dalberg, Le Roy E.; and Dalberg, Herbert. Solid waste reclaiming method and system. 3,477,649, 11-11-69, Cl. 241-24.
D'Albis, Antoine; Yerouchalmi, David; and Bouillon, Bernard,to Commissariat a l'Energie Atomique. Electrode and method of fabrication. 3,423,611, 1-21-69, Cl. 310-11.
Dale, Brian: *See—*
Baker, Allen G.; and Dale, Brian,3,421,204.
Baker, Allen G.; and Dale, Brian,3,456,334.
Dale, Brian, to Sylvania Electric Products, Inc. Four-layer semiconductor switching devices in integrated circuitry. 3,450,959, 6-17-69, Cl. 317-235.
Dale Electronics, Inc.: *See—*
Berryhill, John R., 3,421,195.
Berryhill, John R., 3,481,838.
Cannon, Richard; and Morse, Charles M., 3,426,304.
Cannon, Richard L.; and Morse, Charles M., 3,444,770.
Jacob, Marvin H., 3,435,386.
Person, Herman R., 3,480,832.
Dale, Ingvald; and Lewis, Charles B., to Lamb-Grays Harbor Co., Inc. Sheet control apparatus. 3,432,161, 3-11-69, Cl. 271-46.
Dale, James W., to Monsanto Research Corporation. Method of controlling the spread of fires. 3,480,545, 11-25-69, Cl. 282-2.
Dale, John I., III; Straley, James M.; and Weaver, Max A., to Eastman Kodak Company. Disazo dyes. 3,446,791, 5-27-69, Cl. 260-184.
Dale, John I., III; and Weaver, Max A., to Eastman Kodak Company. Cyanomethylidene-aniline dye for textile fibers. 3,422,133, 1-14-69, Cl. 260-465.
Dale, John I., III; and Weaver, Max A., to Eastman Kodak Company. Disthiazolylazo dyes containing a bis (arylene aminoethyl) sulfone connecting linkages. 3,453,256, 7-1-69, Cl. 260-158.
Dale, John I., III: *See—*
Weaver, Max A.; Straley, James M.; and Dale, John I., III,3,472,833.
Weaver, Max A.; and Dale, John I.,3,485,813.
Dale, John R. Mobile gas-operated electrically-actuated projectile firing system. 3,431,816, 3-11-69, Cl. 89-8.
Dale, John R., to United States of America, Navy. Fluid flow velocity sensor. 3,452,594, 7-1-69, Cl. 73-194.
Dale, John R.; Menzel, Harry R.; McCandless, Joseph M.; and Goss, Garnet, to United States of America, Army. Apparatus for wave analysis. 3,449,950, 6-17-69, Cl. 73-170.
Dale, Kenneth Howard, to Reynolds Metals Company. Solvent dyeing of anodized aluminum. 3,440,111, 4-22-69, Cl. 148-6.1
Dale, Ralph David, to Protex Corporation Limited, mesne. Elastic insulating bodies of inorganic fiber material and method of producing such bodies. 3,461,191, 8-12-69, Cl. 264-41.
Dale, Thomas L. Method and apparatus for renewing used or worn windshield wiper blades. 3,477,179, 11-11-69, Cl. 51-34.
Dale, William L.: *See—*
Boggild, Robert; and Dale, William L.,3,480,274.
D'Alelio, Gaetano F., to PPG Industries, Inc. Highly radiation-sensitive telomerized polyesters. 3,455,801, 7-15-69, Cl. 204-159.19
D'Alelio, Gaetano F., to PPG Industries, Inc. Highly radiation-sensitive telomerized polyesters. 3,455,802, 7-15-69, Cl. 204-159.19
D'Alelio, Gaetano F., to Dal Mon Research Co. Rocket propulsion process using irradiated solid polymeric propellant. 3,462,952, 8-26-69, Cl. 60-219.
D'Alelio, Gaetano F., to PPG Industries, Inc. Highly radiation-sensitive telomerized polyamides. 3,470,079, 9-30-69, Cl. 204-159.15
D'Alelio, Gaetano F., to PPG Industries, Inc., mesne. Highly radiation-sensitive telomerized polyamides. 3,471,386, 10-7-69, Cl. 204-159.15
D'Alelio, Gaetano F., to Dal Mon Research Co. Beryllium-containing polymeric propellant compositions. 3,479,235, 11-18-69, Cl. 149-19.
D'Alelio, Gaetano F.,10% to Monacelli, Walter J. Chelating compositions comprising products of aldehydes and triazine derivatives. 3,481,903, 12-2-69, Cl. 260-67.6
D'Alelio, Gaetano F., to PPG Industries, Inc. Highly radiation-sensitive telomerized polyamides. 3,483,104, 12-9-69, Cl. 204-159.15
D'Alelio, Gaetano F., to PPG Industries, Inc., mesne. Highly radiation-sensitive telomerized polyamides. 3,483,105, 12-9-69, Cl. 204-159.15
D'Alelio, Gaetano F., to PPG Industries, Inc., mesne. Highly radiation-sensitive telomerized polyesters. 3,485,732, 12-23-69, Cl. 204-159.15
D'Alelio, Gaetano F., to PPG Industries, Inc. Highly radiation-sensitive telomerized polyesters. 3,485,733, 12-23-69, Cl. 204-159.15
D'Alelio, Gaetano F., to Dal Mon Research Co., mesne. Aluminum containing polymeric propellant composition. 3,429,754, 2-25-69, Cl. 149-19.
Dalen, Christiaan Johannes van: *See—*
van Duuren, Hendrik Cornelis Anthony; Dalen, Christiaan Johannes van; and da Silva, Herman,3,467,776.
Dalenberg, John F.; Todd, Elmer H.; and Carpenter, John W., to Combustion Engineering, Inc. Deflector arrangement for use in a grinding mill. 3,465,971, 9-9-69, Cl. 241-53.
D'Alessandro, Andrew N.:*See—*
DiVita, Fosco L.; Simak, Frank J.; and D'Alessandro, Andrew N.,3,486,417.
D'Alessandro, William J., to Union Carbide Corporation. Thermoplastic friction composition and friction element thereof. 3,455,866, 7-15-69, Cl. 260-37.
D'Alessandro, William J., to Union Carbide Corporation. Friction composition and friction element thereof. 3,455,868, 7-15-69, Cl. 260-38.
Daletsky, Genrikh Stanislavovich: *See—*
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.
Daley, Timothy Joseph, to General Dynamics Corporation. Phase locked loop receiver. 3,461,388, 8-12-69, Cl. 325-421.
Dalglish, Herbert F. Center lift. 3,423,120, 1-21-69, Cl. 294-97.
Dalglish, Herbert F. Core chuck. 3,445,076, 5-20-69, Cl. 242-68.2
Dalhart, Austin Thomas: *See—*
Moss, Theron V.; and Dalhart, Austin Thomas,3,431,576.
Dalibor, Horst, to Reichhold Chemicals, Inc. Organic esters prepared with the use of a titanium peroxide-containing catalyst, said ester being suitable for use as a plasticizer for organic film- forming materials, and method of preparing such esters. 3,459,736, 8-5-69, Cl. 260-234.
Dalibor, Horst; and Kiessling, Hans-Joachim, to Reichhold Chemicals, Inc. Method of preparing soluble binders. 3,474,076, 10-21-69, Cl. 260-78.5
Dalik, Herbert A., to Flintkote Company, The. Automatic feeding and discharging system for machine tools. 3,455,190, 7-15-69, Cl. 82-2.7
Dalin, David: *See—*
Henriksson, Per, 3,434,532.
Dalin, David. Heat exchanger especially adapted for indirect heat transfer by convection. 3,447,602, 6-3-69, Cl. 165-145.
Dalkin Kogyo Kabushiki Kaisha: *See—*
Kato, Kaoru; and Ogawa, Shigeyoshi, 3,431,067.
Dall'Asta, Gino; and Carella, Giovanna, to Montecatini Edison S.p.A. Process for the polymerization of cyclolefins. 3,449,310, 6-10-69, Cl. 260-93.1
Dallaire, Raymond M., to P. H. Plastics Inc. Header track. 3,483,658, 12-16-69, Cl. 49-419.
Dallas, Charles A.: *See—*
Haefele, Walter R.; Dallas, Charles A.; and Deisz, Marvin A.,3,485,787.
Dall'Asta, Gino:*See—*
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio,3,458,489.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio,3,459,725.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio,3,476,728.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; Dall'Asta, Gino; and Sartori, Guido,3,453,250.

Dalle, Gerard, to Geigy Chemical Corporation. Device to accelerate the boiling of a liquefied gas. 3,460,351, 8-12-69, Cl. 62-50.

Dalle, Michel Pierre Yvon: *See—*
Grall, Francois Bernard Marie; and Dalle, Michel Pierre Yvon,3,482,924.

Dallera, Giancarlo; and Dallera, Luigi. Inflatable sled. 3,455,571, 7-15-69, Cl. 280-18.

Dallera, Luigi: *See—*
Dallera, Giancarlo; and Dallera, Luigi,3,455,571.

Dallier, Charles F.: *See—*
Hinderer, Edward F.; and Dallier, Charles F.,3,457,775.

Dallman, Robert J.; and Haag, Anthony L., to North American Clutch Corporation. Centrifugal clutch and brake. 3,461,994, 8-19-69, Cl. 192-105.

Dallois, Robert; Robic , Roger; and Dufour, Gisele, to Dunlop Company Limited, The. Metering and mixing device. 3,462,128, 8-19-69, Cl. 259-6.

D'Alo, Franco; and Masserini, Arnaldo, to Warner-Lambert Pharmaceutical Company, mesne. S-benzoyloxymethyl-thiamine esters. 3,429,883, 2-25-69, Cl. 260-256.5

Dalpiaz, Julius A., to Kluttz Machine & Foundry, Inc. Plated plastic dye tubes. 3,438,226, 4-15-69, Cl. 68-198.

Dalton, Gerald J. Grass catcher. 3,430,422, 3-4-69, Cl. 56-202.

Dalton, Harold R. Electric signal recording blank. 3,442,699, 5-6-69, Cl. 117-201.

Dalton, John Broocks: *See—*
Elliott, Reginald S.; and Dalton, John Broocks,3,473,826.

Dalton, John F., to Mohawk Data Sciences Corporation, mesne. Print hammer module. 3,426,675, 2-11-69, Cl. 101-93.

Dalton, John F.; and Sharples, Philip P., to Mohawk Data Sciences Corporation. Strip feeding device. 3,464,612, 9-2-69, Cl. 226-155.

Dalton, John V.: *See—*
Buck, Thomas M.; and Dalton, John V.,3,458,782.

Dalton Robert H., to Corning Glass Works. Infrared absorptive sealing glass. 3,445,256, 5-20-69, Cl. 106-53.

Dalton, Robert L., to R. D. Products Incorporated. Tire pressure indicator. 3,430,196, 2-25-69, Cl. 340-58.

Daltry, John Harold, to English Electric Company Limited, The. Cooling towers. 3,422,883, 1-21-69, Cl. 165-47.

Daltry, John Harold, to English Electric Company, Limited, The. Dry cooling towers. 3,434,529, 3-25-69, Cl. 165-47.

Daly, Brian Bowman; Baker, Alex Gerard James; and Anderson, Joseph Percival, to Woods of Colchester Limited. Impellers, especially for ventilators. 3,433,145, 3-18-69, Cl. 98-43.

Daly, David A., to Beloit Eastern Corporation. High speed trim system. 3,465,625, 9-9-69, Cl. 83-100.

Daly, Edgar Frank; and Shrewsbury, Derek David, to Pye Limited. Optical apparatus for measuring the light transmission of a sample body. 3,441,349, 4-29-69, Cl. 356-93.

Daly, James H.; Sommer, John G.; and Meyer, Daniel A. Elastomeric composition containing chromic oxide for use as rocket insulation. 3,421,970, 1-14-69, Cl. 161-170.

Daly, Noel. Golf bags. 3,460,597, 8-12-69, Cl. 150-1.5

Daly, Robert A., to Emhart Corporation. Valve lever and latch mounting mechanisms for glassware forming machine. 3,461,902, 8-19-69, Cl. 137-315.

Daly, Thomas J. Crane safe load indicator. 3,447,368, 6-3-69, Cl. 73-144.

Daman, Arthur E., to Dejo, Inc. Apparatus for treating sewage or industrial waste liquids. 3,434,598, 3-25-68, Cl. 210-199.

D'Amato, Anthony S.:*See—*
Gattenby, Miles N., Jr.; and D'Amato, Anthony S.,3,479,308.

D'Amato, Carl. Electronic sound producing walking cane. 3,435,153, 3-25-69, Cl. 179-100.2

D'Amato, Carl. Air conditioned garment. 3,468,299, 9-23-69, Cl. 126-204.

Damato, Daniel A.; Lazar, Sheldon; and Zittler, Richard B. Precut sheet material moulding assemblies; to be secured to room walls, along the floor or door or window frames. 3,449,873, 6-17-69, Cl. 52-127.

D'Amato, Kathleen M. Towel retainer. 3,456,807, 7-22-69, Cl. 211-123.

D'Amato, Nicholas J. Picture frame fastener. 3,479,761, 11-25-69, Cl. 40-156.

D'Amato, Salvatore F.; Williams, Kenneth R.; and Guertin, Clifford D., to American Bank Note Company. Rotary indexing apparatus. 3,483,772, 12-16-69, Cl. 74-821.

D'Amato, Salvatore F.:*See—*
Guertin, Clifford D.; and D'Amato, Salvatore F.,3,474,011.

Damay, Jean: *See—*
Bichet, Georges; Cruiziat, Paul; Damay, Jean; and Frechet, Pierre Joseph,3,456,428.

Dambrine, Francis, to Societe Fives Lille-Cail. Juice-extracting method and apparatus. 3,443,549, 5-13-69, Cl. 127-5.

Dambrine, Francis; and Giorgi, Jean Claude, to Societe Fives Lille Cail. Filter element. 3,450,263, 6-17-69, Cl. 210-108.

Dame, John S.; and Saltzberg, Theodore, to Motorola, Inc. Remote control system using frequency code patterns transmitted in a particular sequence. 3,454,927, 7-8-69, Cl. 340-171.

Damen, Leonardus W. J.: *See—*
Stahl, Dieter; Strolenberg, Otto Karel; and Damen, Leonardus W. J.,3,476,723.

Damen, Theodoor C.; Leite, Rogerio C. C.; and Porto, Sergio P. S., to Bell Telephone Laboratories, Incorporated. Optical power limiter. 3,434,779, 3-25-69, Cl. 350-160.

Dameron, Francis Eugene: *See—*
Carlson, Gilbert Fritz; and Dameron, Francis Eugene,3,482,624.

Damgaard, Lauritz Gudmund, to Struers, H., Chemiske Laboratorium. Pipette. 3,459,339, 8-5-69, Cl. 222-309.

Damgard-Iversen, Jorgen: *See—*
Repsdorph, Inger; Kroyer, Karl Kristian Kobs; and Damgard-Iversen, Jorgen,3,477,874.

Damia, Emil: *See—*
Turner, Lloyd S., 3,441,159.

Damiani, Benjamin J., to Union Tank Car Company, mesne. Safety vent structure. 3,435,984, 4-1-69, Cl. 220-89.

Damiano, Charles, to Pirelli Limited. Method of mounting upholstery supports. 3,462,824, 8-26-69, Cl. 29-448.

Damiano, Henry; and Rainone, Louis C., to Bell Telephone Laboratories, Incorporated. Communication system with control signal delay means. 3,479,466, 11-18-69, Cl. 179-18.

D'Amico, Eugene P.:*See—*
Wheeler, Harvey B.; and D'Amico, Eugene P.,3,468,837.

D'Amico, John J., to Monsanto Company. Halobenzyl carbamates. 3,442,889, 5-6-69, Cl. 260-239.

D'Amico, John J., to Monsanto Company. Polymethylene thiuram sulfides. 3,468,876, 9-23-69, Cl. 260-239.

D'Amico, John J., to Monsanto Company. Polymethyleniminethiothiazoles and rubber vulcanization. 3,422,078, 1-14-69, Cl. 260-79.5

D'Amico, John J., to Monsanto Company. S-(Phthalazin-1-yl)-and S-(1H-1,2,4-triazol-5-yl)- thioazoles and dithiocarbamates. 3,454,572, 7-8-69, Cl. 260-250.

Damisch, George A.: *See—*
Van Wieren, Wilhelmine H.; and Damisch, George A.,3,420,811.

Damitz, Clyde O.: *See—*
Bruin, James; and Damitz, Clyde O.,3,472,344.

Damm, Carl A., to United States of America, Navy. Ejector assembly with lockable store-engaging presser foot. 3,431,824, 3-11-69, Cl. 92-132.

Damm, Carl A.; and Eichmann, Albert Carl, to United States of America, Navy. Low profile load-releasing lock-on coupling. 3,469,872, 9-30-69, Cl. 287-119.

Damm, Eugene P., Jr., to International Business Machines Corporation. Heat-fixable light-sensitive compositions and elements. 3,463,638, 8-26-69, Cl. 96-49.

Damm, Klaus: *See—*
Golitz, Dietrich; Noll, Walter; Damm, Klaus; and Krauss, Walter,3,449,465.

Damm, Kurt; and Strausfeld, Hermann, to Lindstrom, Carl, Gesellschaft m.b.H. Gramophone record presses. 3,474,494, 10-28-69, Cl. 18-5.3

Dammar, Raymon H., to Possis Machine Corporation. Lead forming apparatus. 3,474,515, 10-28-69, Cl. 29-205.

Dammar, Raymon H.: *See—*
Mommsen, Gordon V.; and Dammar, Raymon H.,3,448,311.

Damoisiaux, Anthony John: *See—*
Blight, Dennis Jack; Boswell, Stanley Harold; and Damoisiaux, Anthony John,3,462,727.

Damon Engineering, Inc.: *See—*
Hurtig, Carl R., 3,464,123.
Hurtig, Carl R.; and Madeson, Austen, 3,473,121.
Hurtig, Carl R., 3,475,690.

Damratowski, Leonard P., to Carrier Corporation. Separator tube cap. 3,440,806, 4-29-69, Cl. 55-449.

Damrau, Wayne A.: *See—*
Ziegenhagen, Paul D.; Fretz, Harold R.; Langlois, Arthur C.; and Damrau, Wayne A.,3,466,925.

Damron, Cordell; and Borders, Thurman J. Model airplane control device. 3,446,502, 5-27-69, Cl. 272-31.

Damron, Sidney S., to Ampex Corporation. Magnetic tape recording and reproducing system for processing digital data at high transfer rates. 3,483,540, 12-9-69, Cl. 340-174.1

Damsky, Walter: *See—*
Schneider, Rudolf; Bottenbruch, Ludwig; Court, Otto; Damsky, Walter; Spott, Georg; and Lippert, Axel,3,427,003.

Damusis, Adolfas, to Wyandotte Chemicals Corporation. High molecular weight urethane polymers having an ordered arrangement of pendant unsaturation and process for their production. 3,448,171, 6-3-69, Cl. 260-859.

Damusis, Adolfas, to Wyandotte Chemicals Corporation. Process for preparing polyurethane compositions from polyoxyalklene derivatives of ρ,ρ^1- isopropylidenediphenol. 3,457,225, 7-22-69, Cl. 260-47.

Damusis, Adolfas; and Frisch, Kurt C., to Wyandotte Chemicals Corporation. Flexibilized polyester resin compositions containing polymethanes modified with vinyl monomers and process therefor. 3,448,172, 6-3-69, Cl. 260-859.

Damy, Eduardo M. Railway hopper car door actuating and locking mechanism. 3,469,539, 9-30-69, Cl. 105-249.
Damy, Sergio Rene. Air-liquid parking meter. 3,447,654, 6-3-69, Cl. 194-102.
Dan, Hirohiko: *See*—
Suzuki, Saburo; Kurata, Masaya; Akiyoshi, Akikazu; Aoshima, Shozo; Dan, Hirohiko; and Matsuoka, Norimichi,3,484,472.
Dan River Mills, Incorporated: *See*—
Spangler, Myrtle Joanne, 3,420,702.
Dana Corporation: *See*—
Baker, Patrick W.; and Kessler, Thomas M., 3,472,331.
Belter, Jerome G., 3,430,611.
Holzman, James W., 3,459,037.
Johns, Marvin D.; and Haydock, Stephen J., 3,460,506.
Johns, Marvin D.; and Brewer, Hal W., 3,470,844.
Kayser, John A., 3,470,711.
Kayser, John A., 3,481,159.
Lunsford, Dallas F., 3,421,307.
Meyers, Richard P., 3,479,840.
Miller, Fred F., Jr., 3,447,341.
Sink, William H., 3,424,288.
TerWoerds, Francis John; and Myers, Gerald Lee, 3,422,982.
Dana Laboratories, Inc.: *See*—
Engle, Charles E.; and Nelson, James A., 3,464,508.
Gillette, Garry C., 3,437,925.
Walker, Norman C., 3,478,275.
Danahy, C. Joseph: *See*—
Gazzoli, Anthony, 3,452,150.
Danahy, Thomas M., to Cluett, Peabody & Co., Inc. Hemming device. 3,481,292, 12-2-69, Cl. 112-121.15
Danavox International A/S: *See*—
Parthum, Werner Manfred, 3,465,107.
Danberg, Victor. Stuffed toy. 3,460,286, 8-12-69, Cl. 46-92.
Danby, Gordon T.: *See*—
Powell, James R., Jr.; and Danby, Gordon T.,3,470,828.
Dancer, Stuart Neil, to Distillers Company Limited, The. Production of conjugated diolefines. 3,471,585, 10-7-69, Cl. 260-680.
D'Ancicco, Victor V.; and Sayigh, Adnan A. R. Fully capped polymethylene polyphenyl isocyanates. 3,441,541, 4-29-69, Cl. 260-77.5
Dancik, Paul J., to Boeing Company, The. Aircraft propulsion mounting arrangement. 3,439,888, 4-22-69, Cl. 244-56.
Dancsik, Joseph J. Profiling machine. 3,449,967, 6-17-69, Cl. 74-56.
Dand, Edward C.: *See*—
Neumann, Donald F.; Blumenthal, John; Vance, Robert S.; and Dand, Edward C.,3,453,610.
Dandliker & Hotz A.-G.: *See*—
Dandliker, Max Gustav, 3,474,647.
Dandliker, Max Gustav, to Dandliker & Hotz A.-G. Tanning apparatus. 3,474,647, 10-28-69, Cl. 69-30.
Dando, Vivian Charles Owen: *See*—
Bailey, Brian Edward; and Dando, Vivian Charles Owen,3,480,576.
D'Andrea, Anthony Thomas. Interchangeable foot lever mechanism for vending machines. 3,435,699, 4-1-69, Cl. 74-481.
Dane, Ernest B., Jr. Method for constructing a boat hull. 3,459,617, 8-5-69, Cl. 156-212.
Dane, Paul E., to Hobart Brothers Company. Method of making welding electrode. 3,478,552, 11-18-69, Cl. 72-42.
Danelectro Corporation, The: *See*—
Daniel, Nathan I., 3,424,049.
Gambella, Vincent; and Daniel, Nathan I., 3,422,715.
Daneman, Ben, to Central Engineering Company, Inc. Sound attenuator for vacuum-type debris collector. 3,431,583, 3-11-69, Cl. 15-326.
Daneman, Ben, to Central Engineering Company, Inc. Debris collector suction pipe. 3,444,581, 5-20-69, Cl. 15-314.
Daneman, Ben, to Central Engineering Company, Inc. Sewer cleaner suction pipe. 3,474,484, 10-28-69, Cl. 15-414.
Danforth, Donald W., to Bolton-Emerson, Inc. Apparatus and process for refining paper stock. 3,428,262, 2-18-69, Cl. 241-28.
Danforth, Donald W.; and Clendaniel, William Richard, to Bolton-Emerson, Inc. Automatic freeness tester. 3,452,587, 7-1-69, Cl. 73-63.
Danforth, Joseph D. Analytical apparatus. 3,431,077, 3-4-69, Cl. 23-253.
Danfoss A/S: *See*—
Andersen, Viggo Kogs; and Pedersen, Jorgen Kaas, 3,474,043.
Baatrup, Johannes Vagn, 3,454,028.
Basse, Tage Stenberg, 3,470,516.
Christensen, Helge K., 3,443,586.
Christensen, Helge K., 3,482,398.
Dyre, Morgens, 3,432,729.
Dyre, Morgens, 3,436,601.
Dyre, Morgens, 3,454,345.
Enemark, Arne, 3,469,851.
Enemark, Arne F.; Kjeldsen, Kjeld; and Larsen, Bendt Wegge, 3,480,206.
Hallgreen, Knud Julius, 3,432,246.
Hansen, Gunnar Lyshoj, 3,424,095.
Hansen, Gunnar Lyshoj, 3,473,438.
Iversen, Kristian, 3,431,726.
Jensen, Arne, 3,423,605.
Jensen, Arne, 3,435,255.
Jensen, Arne, 3,445,271.
Jensen, Arne, 3,447,113.
Jespersen, Hans Jorgen, 3,454,035.
Larsen, Bendt W.; and Valbjorn, Knud V., 3,441,203.
Larsen, Bendt Wegge; and Lund, Egon, 3,473,687.
Larsen, Bendt Wegge, 3,482,769.
Larsen, Bendt Wegge, 3,486,526.
Lauppe, Heinz; and Westphal, Dieter, 3,441,246.
Leffers, Hans Ulrik, 3,473,444.
Leffers, Hans Ulrik, 3,482,487.
Leffers, Hans Ulrik; Valbjorn, Knud Vagn; and Holme, Bent Melchior Karlsen, 3,484,822.
Mikkelsen, Arne, 3,473,443.
Ohrberg, Carl V., 3,473,437.
Ohrberg, Carl V., 3,478,887.
Petersen, Bent Schare, 3,445,823.
Petersen, Tom Kastrup, 3,485,100.
Scholer, Magne Fredslund, 3,469,154.
Sjotun, Kyrre Guttorm, 3,441,325.
Sorensen, Carl; and Molgard, Age, 3,431,938.
Valbjorn, Knud V., 3,431,796.
Valbjorn, Knud V.; and Kjeldsen, Kjeld, 3,441,202.
Valbjorn, Knud V.; Larsen, Bendt Wegge; and Madsen, Anker Erik, 3,459,364.
Valbjorn, Knud V.; Kjeldsen, Kjeld; and Skog, Steinar, 3,461,683.
Valbjorn, Knud Vagn, 3,454,213.
Vind, Holger V., 3,432,786.
Waldorff, Jorgen F., 3,431,863.
Waldorff, Jorgen F., 3,435,616.
Westphal, Dieter, 3,446,471.
Danfoss Manufacturing Co., Ltd.: *See*—
Petrusson, Sigurdur G., 3,469,595.
Danfoss ved ing. M. Glausen: *See*—
Basse, Tage Stenberg, 3,475,709.
Dangauthier, Marcel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Elastically yieldable element for a bearing and a bearing including said element. 3,431,033, 3-4-69, Cl. 308-26.
Dangauthier, Marcel, to Societe Industrielle et Commerciale des Automobiles Peugot. Flexible bearing in particular for an automobile vehicle suspension. 3,431,035, 3-4-69, Cl. 308-184.
Dangauthier, Marcel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Hinge, in particular for an automobile vehicle door. 3,445,884, 5-27-69, Cl. 16-128.
Dangauthier, Marcel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Transmission mechanism for automobile vehicles and the like. 3,453,904, 7-8-69, Cl. 74-664.
Dangauthier, Marcel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Vehicle seats. 3,454,303, 7-8-69, Cl. 297-396.
Dangauthier, Marcel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Fuel injection devices for compression ignited internal combustion engines. 3,456,629, 7-22-69, Cl. 123-32.
Dangauthier, Marcel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Apparatus for balancing the engine of an automobile vehicle. 3,463,259, 8-26-69, Cl. 180-54.
D'Angelo, George:*See*—
Chow, Ho; and D'Angelo, George,3,468,562.
D'Angio, Joseph. Hair curler for the execution of permanent waves at room temperature. 3,442,271, 5-6-69, Cl. 132-33.
Danhauser, Justus; Gold, Heinrich; Holtschmidt, Hans; and Pelz, Willibald, to Agfa-Gevaert Aktiengesellschaft. Method of producing light-sensitive photocrosslinkable polymers. 3,467,630, 9-16-69, Cl. 260-79.5
Danhauser, Justus; and Pelz, Willibald, to Gevaert-Agfa N.V. Method for the preparation of polymers, that can be photochemically cross-linked. 3,449,294, 6-10-69, Cl. 260-47.
Danhauser, Justus; and Pelz, Willibald, to Gevaert-Agfa N.V. Light-sensitive layers for photochemical purposes. 3,462,268, 8-19-69, Cl. 96-35.1
Danhauser, Justus: *See*—
Seidel, Bernhard; Mader, Helmut; Danhauser, Justus; and Bartl, Herbert,3,467,523.
Danico, Henry F.; and Wilhelmi, Julius B., to United-Carr Incorporated, mesne. Retractable caster glide. 3,477,090, 11-11-69, Cl. 16-44.
Daniel, Benjamin S., to Techniservice Corporation, mesne. Strand treatment. 3,479,709, 11-25-69, Cl. 28-72.
Daniel, David W., to Lear Siegler, Inc., mesne. Gear shaving machine. 3,443,478, 5-13-69, Cl. 90-1.6
Daniel, David W., to Lear Siegler, Inc., mesne. Gear shaving cutter and the method of using the same. 3,451,111, 6-24-69, Cl. 29-103.
Daniel, James A., Jr. Straight line carrier device. 3,426,994, 2-11-69, Cl. 248-277.
Daniel, Katherine,: *See*—
Midgette, Ernst L., 3,486,741.
Daniel, Nathan I.: *See*—
Gambella, Vincent; and Daniel, Nathan I.,3,422,715.

Daniel, Nathan I., to Danelectro Corporation, The, mesne. Combined bridge, tailpiece and manufal vibrato for guitars. 3,424,049, 1-28-69, Cl. 84-313.

Daniel, P. Lucero: *See*—
Webb, James E., Administrator of the National Aeronautics and Space Administration, with respect to an invention of,; Krupnick, Albert C.; and Daniel, P. Lucero,3,429,177.

Daniel, Richard I.; and Wesley, Robert O., to Daisy Manufacturing Company. Popgun with extended barrel for projecting puff of air. 3,465,741, 9-9-69, Cl. 124-1.

Daniel, Thomas M.: *See*—
Midgette, Ernst L., 3,486,741.

Daniele, Donald T., to Diamond International Corporation. Combined dry and finishing apparatus for molded pulp articles. 3,477,908, 11-11-69, Cl. 162-392.

Danieli, Sten Henrik: *See*—
Carlson, Henry; Lundquist, Ingvar; Danieli, Sten Henrik; and Andersson, Rune,3,427,991.

Daniell, Alan F., to Cammell Laird & Company (Shipbuilders & Engineers) Limited. Buoyant wellhead structure. 3,470,838, 10-7-69, Cl. 114-0.5

Daniels, Albert E., to Impact Contair · Corporation. Tire inflator gas. 3,428,570, 2-18-69, Cl. 252-372.

Daniels, Albert E., to Impact Container Corporation. Aerosol valve pedestal bushing. 3,452,906, 7-1-69, Cl. 222-402.1

Daniels, Allen, to Chase Bag Company. Valved bag end construction. 3,430,844, 3-4-69, Cl. 229-62.5

Daniels, Archer, Midland Company: *See*—
Atkinson, William Thomas, 3,455,697.

Daniels, Arthur L.: *See*—
Schmidt, Donald L.; and Daniels, Arthur L.,3,435,059.

Daniels, Arthur. Manually operated mechanical snowplow with lever power handle. 3,486,252, 12-30-69, Cl. 37-53.

Daniels, Barrie: *See*—
Burgess, John Llewellyn; Daniels, Barrie; and Whale, William Edward,3,462,811.

Daniels, Barrie; and Whale, William Edward, to Imperial Chemical Industries Limited. Bulked yarn. 3,468,118, 9-23-69, Cl. 57-140.
Parikh, Anil Chandrakant; and Daniels, Barrie,3,470,684.

Daniels, Charles K.; and McCarthy, John P., to EG & G International, Inc. Underwater guidance method and apparatus. 3,458,853, 7-29-69, Cl. 340-3.

Daniels, David A., to Grace, W. R., & Co. Process for preparing N-methylglycinonitrile. 3,479,388, 11-18-69, Cl. 260-465.5

Daniels, David A.; Harper, James L.; and Steadman, Thomas R., to Grace, W. R., & Co. Process for preparing N-methylglycinonitrile. 3,479,387, 11-18-69, Cl. 260-465.5

Daniels, David A.: *See*—
Harper, James L.; and Daniels, David A.,3,424,783.
Harper, James L.; and Daniels, David A.,3,483,175.

Daniels, Dennis. Punch press. 3,449,991, 6-17-69, Cl. 83-71.

Daniels, Dennis, 49% to Trottnow, E. B., Machine Specialties, Inc. Hydraulic transmission device. 3,455,109, 7-15-69, Cl. 60-53.

Daniels, Dennis, 49% to Trottnow E. B., Machine Specialties, Inc. Retractable vane hydraulic motor-pump device. 3,455,247, 7-15-69, Cl. 103-121.

Daniels, Dennis, to Houdaille Industries, Inc. Workpiece clamp assembly. 3,456,536, 7-22-69, Cl. 83-62.

Daniels, Dennis, 1/2 Interest to Frontier Insulation & Asbestos Inc. Inflatable connector. 3,473,829, 10-21-69, Cl. 285-18.

Daniels, Everett Eugene: *See*—
Bell, John Harold; and Daniels, Everett Eugene,3,436,884.

Daniels, Frank J.; and Creith, Lou C., to Olin Mathieson Chemical Corporation. Flexible floating blanket for vapor loss control in vertical storage tanks. 3,474,931, 10-28-69, Cl. 220-26.

Daniels, George H.; and Wechselblatt, Peter M., to Chemical Construction Corporation. Vacuum drum filter. 3,472,383, 10-14-69, Cl. 210-297.

Daniels, Guy L., deceased0 (by Peters, Herbert H.; administrator), to Case, J. I., Company. Hydraulically actuated stop for a hydraulic ram unit. 3,442,178, 5-6-69, Cl. 91-403.

Daniels, Henricus Petrus Cornelis; and Botden, Theodoor Peter Johannes, to North American Philips Company, Inc. Apparatus and process for ultrasonically welding a wire to the surface of an object. 3,430,331, 3-4-69, Cl. 29-470.3

Daniels, Henricus Petrus Cornelis; and Rademakers, Franciscus Maria Antonius, to U.S. Philips Corporation, mesne. Ultrasonic welding method and apparatus. 3,455,015, 7-15-69, Cl. 29-470.1

Daniels, Herbert E.; and Graves, Donald E., to General Electric Company. SCR circuit for terminating an X-ray exposure at a precise point. 3,428,809, 2-18-69, Cl. 250-95.

Daniels, Howard L.: *See*—
Fritze, Curtis W.; and Daniels, Howard L.,3,436,731.
Hoiseth, Roland L.; and Daniels, Howard L.,3,436,735.

Daniels, Howard L. Process step controller. 3,424,918, 1-28-69, Cl. 307-132.

Daniels, Howard L. Electric fence charging apparatus. 3,487,232, 12-30-69, Cl. 307-132.

Daniels, Lawrence E., to Ward Manufacturing, Inc. Camping trailer with retractable bed braces. 3,475,047, 10-28-69, Cl. 296-23.

Daniels, Lawrence E.; and Hunter, William B., to Ward Manufacturing, Inc. Collapsible camping trailer. 3,456,978, 7-22-69, Cl. 296-23.

Daniels Plating Barrel & Supply Company: *See*—
Szeremany, Julius, 3,434,954.

Daniels, Russell W., to Allis-Chalmers Manufacturing Company. Swing-away seat. 3,463,542, 8-26-69, Cl. 296-65.

Daniels, Wiley E., to GAF Corporation. Emulsion polymerization of vinyl acetate with vinyl alkyl ethers. 3,477,980, 11-11-69, Cl. 260-29.6

Daniels, William Lee, to Goldentone Electronics, Inc., mesne. Hearing aid vent tube. 3,470,328, 9-30-69, Cl. 179-107.

Danielsen, Berne E.; Dowsing, Reginald M.; Kennedy, Melvin R.; and Ryan, John W., to Mattel, Inc. Record and random playback mechanism therefor. 3,482,842, 12-9-69, Cl. 274-11.

Danielski, Frederick: *See*—
Michalski, Frank J., 3,483,954.

Danielson, Alton J.; Erwin, James V.; and Berg, Harold A., to Minnesota Mining and Manufacturing Company. Screen printing process and product. 3,445,310, 5-20-69, Cl. 156-230.

Danielson, George E., Jr.: *See*—
Aas, Herbert G.; and Danielson, George E., Jr.,3,435,372.

Danielson, Gordon H., to General Electric Company. Frequency shift keyed discriminating circuits. 3,439,283, 4-15-69, Cl. 329-104.

Danielson, Harry A. Patient transporting and lifting device. 3,451,070, 6-24-69, Cl. 5-83.

Danielson, Worrell M., to Enterprise Railway Equipment Company. Hopper discharge arrangement. 3,446,538, 5-27-69, Cl. 302-52.

Danielsson, Jan O. Concrete aggregate exposing apparatus. 3,458,885, 8-5-69, Cl. 15-50.

Daniher, Francis A.; and Hackley, Brennie E., Jr., to Stevens, Ash, Inc. Process for the reduction of pyridine N-oxides. 3,467,659, 9-16-69, Cl. 260-290.

Danjczek, William E., to Koh-I-Noor, Inc. Pen holder. 3,428,380, 2-18-69, Cl. 312-31.

Danjczek, William E., to Rapidograph, Inc. Scriber. 3,440,727, 4-29-69, Cl. 33-23.

Danjczek, William E., to Koh-I-Noor, Inc. Drafting pen point for vertical surfaces. 3,455,639, 7-15-69, Cl. 401-259.

Danjczek, William E., to Rapidograph, Inc. Stylographic pen cap with built in hygrometer. 3,475,103, 10-28-69, Cl. 401-194.

Danjes, Martin Hermann. Sewage water aeration device. 3,432,154, 3-11-69, Cl. 261-122.

Danjes, Martin. Plant for biological purifiction of sewage water. 3,439,807, 4-22-69, Cl. 210-197.

Dankert, Gerhard: *See*—
Kocher, Ernst-Ulrich; Wagner, Kuno; Von Der Emden, Wolfgang; and Dankert, Gerhard,3,477,992.

Dankert, Harry S.; and Geverink, Henry J., to Upjohn Company, The. Anvil construction for ultrasonic sealing device. 3,447,995, 6-3-69, Cl. 156-580.

Dankese, Joseph P., to General Electric Company. Fluent material distribution system and fuel cell therewith. 3,432,357, 3-11-69, Cl. 136-86.

Danko, Etienne: *See*—
Cominassi, Adolphe; and Danko, Etienne,3,454,780.
Cominassi, Adolphe; and Danko, Etienne,3,473,040.

Danko, George K.: *See*—
Stone, Melvin L.; and Danko, George K.,3,441,774.
Stone, Melvin L.; and Danko, George K.,3,483,609.

Danko, Joseph C.; and McCoy, Peter J., to Westinghouse Electric Corporation. Cascaded thermionic converter. 3,430,079, 2-25-69, Cl. 310-4.

Dann, Bert H., to Bell & Howell Company. Transistorized multivibrator modulator. 3,425,000, 1-28-69, Cl. 332-16.

Dann, Bert H., to Bell & Howell Company. Transistorized demodulator circuit for time modulated signals. 3,426,284, 2-4-69, Cl. 329-101.

Dann, Bert H., to Bell & Howell Company, mesne. Multitrack tape recorder with mechanical track-change system. 3,443,037, 5-6-69, Cl. 179-100.2

Danna, Gary S.: *See*—
Conner, Charles J.; and Danna, Gary S.,3,431,059.

Danna, Salvatore R., to Conetta Manufacturing Company, Inc. Signature identification instrument. 3,480,911, 11-25-69, Cl. 340-146.3

Dannatt, Hugh St. L., to Sperry Rand Corporation. Ribbon supply assembly. 3,425,532, 2-4-69, Cl. 197-151.

Dannatt, Hugh St. Lawrence, to Friden, Inc. Card clamp for typewriter platens. 3,474,889, 10-28-69, Cl. 197-136.

Danneberg, Peter: *See*—
Heusner, Alex; Zeile, Karl; and Danneberg, Peter,3,462,434.

Dannels, Bobby F.: *See*—
Shepard, Alvin F.; and Dannels, Bobby F.,3,487,045.

Dannenbaum, Ella born Supply: *See*—
Schmidt, Karl; and Dannenbaum, Hans,3,454,673.

Dannenbaum, Hans: *See*—
Schmidt, Karl; and Dannenbaum, Hans,3,454,673.

Danner, Bill A., to Allis-Chalmers Manufacturing Company. Resiliently mounted track rollers. 3,484,139, 12-16-69, Cl. 305-27.

Danner, Jefferson D.; and Quatrochi, Lyle W., to International Rectifier Corporation. Non-polarized clamping selenium rectifier. 3,445,738, 5-20-69, Cl. 317-241.
Danner, Jefferson D.: *See—*
Quatrochi, Lyle W.; and Danner, Jefferson D.,3,445,737.
Dannhauser, Kurt; Wiedemann, Otto; and Leitsmann, Reinhard, to Chemische Fabrik von Heyden A.G. Process for the production of 2,3- dichloronaphthoquinone-(1,4). 3,484,461, 12-16-69, Cl. 260-396.
Dannley, Ralph L.: *See—*
Dannley, Ralph Lawrence; Aue, Walter Alois; and Farrant, George Carlton, 3,458,546.
Dannley, Ralph Lawrence; Aue, Walter Alois; and Farrant, George Carlton, to Dannley, Ralph L. Peroxy containing organometallic (IVb-tin, germanium, silicon and lead) compounds and the preparation thereof. 3,458,546, 7-29-69, Cl. 260-429.7
Dannohl, Walter. Method of making metal foils. 3,481,013, 12-2-69, Cl. 29-18.
Danon, David, to Yeda Research and Development Co., Ltd. Apparatus for measuring osmotic fragility of red blood corpuscles. 3,455,635, 7-15-69, Cl. 356-40.
Dansk Industri Syndikat A/S: *See—*
Gunnergaard-Poulsen, Marius, 3,424,229.
Dante, Mark F.; and Parry, Harvey L., to Shell Oil Company. Process for reacting a phenol with an epoxy compound and resulting products. 3,477,990, 11-11-69, Cl. 260-47.
Danton Steel Foundry Company, The: *See—*
Afanador, Carlos P., 3,486,593.
Danuser, John Henry. Multiple hitch attachment for earth-moving implement. 3,460,635, 8-12-69, Cl. 172-741.
Danuser, John Henry. Compact boring machine. 3,474,872, 10-28-69, Cl. 173-140.
Danz, Ellworth R.; and Goodwin, Clarence J., to General Time Corporation. Two-way instrument mount. 3,430,906, 3-4-69, Cl. 248-126.
Danz, Heinrich. Barrier device for coastal protection. 3,426,536, 2-11-69, Cl. 61-3.
Danzer, Josef Helmut, to Trierer Walzwerk AG. Strapping device. 3,447,207, 6-3-69, Cl. 24-16.
Danziger, Leonard: *See—*
Camp, Albert T.; Csanady, Elmer R.; and Danziger, Leonard,3,447,983.
Dapolito, Joseph J.; and Te Grootenhuis, William D., to Sylvania Electric Products, Inc. Method of fabricating a color cathode ray tube screen. 3,440,077, 4-22-69, Cl. 117-18.
Da/Pro Rubber Company, Incorporated: *See—*
Daubenberger, Charles B.; Bryant, Bill J.; and Daubenberger, Charles J., 3,462,161.
Darandik, Fritz: *See—*
Glindmeyer, Friedrich; and Darandik, Fritz,3,444,598.
Darash, Nicholas P.: *See—*
Hohlfelder, Harvey F., Jr.; and Darash, Nicholas P.,3,424,319.
Darbee, Leonard R.: *See—*
Knapp, Kenneth W.; McCarthy, Michael J.; and Darbee, Leonard R.,3,441,388.
Darbee, Leonard R.; and De Kleine, William C., to FMC Corporation. Process for producing effervescent perborate compounds. 3,421,842, 1-14-69, Cl. 23-60.
Darbo, Rolf E. Proportioning rule. 3,475,824, 11-4-69, Cl. 33-137.
Darby, George M., to Dorr-Oliver Incorporated. Sedimentation tank with center-pier supported rotating rake structure. 3,486,628, 12-30-69, Cl. 210-520.
Darby, Kenneth, to Lodge-Cottrell Limited. Gas cooling. 3,461,682, 8-19-69, Cl. 62-85.
Darby, Robert Albert, to Du Pont de Nemours, E. I., and Company. Fluorocarbon polyethers. 3,450,684, 6-17-69, Cl. 260-87.5
Darby, Thomas Dillard: *See—*
Swett, Leo Ralph; Ratajczyk, James Daniel; and Darby, Thomas Dillard,3,424,844.
Darcas, Claude; Allirot, Rene; and Laviron, Charles, to Ugine Kuhlmann. Processes for preparation of acrylamide. 3,474,142, 10-21-69, Cl. 260-561.
Darcas, Claude: *See—*
Laviron, Charles; Darcas, Claude; and Allirot, Rene,3,474,141.
Darcy, Jules; and Dunn, John R., to Polymer Corporation Limited. Silica and silica-containing vulcanizates. 3,431,231, 3-4-69, Cl. 260-41.5
Darda, Helmut. Pressure breaker. 3,439,954, 4-22-69, Cl. 299-22.
Dardick, David, to TRW, Inc. Salvo firing open chamber gun. 3,434,380, 3-25-69, Cl. 89-13.
Dardick, David, to TRW Inc. Recoilless open chamber gun. 3,446,111, 5-27-69, Cl. 89-1.7
Dardick, David, to TRW Inc. Sealed open chamber breech mechanism. 3,446,113, 5-27-69, Cl. 89-26.
Dardick, David, to TRW Inc. Article dispensing means and automatic gun system embodying same. 3,467,276, 9-16-69, Cl. 221-260.
Dare, James A., to United States of America, Navy. Underwater delay fuze. 3,450,049, 6-17-69, Cl. 102-80.
Dare Products, Incorporated: *See—*
Wilson, Robert M., 3,456,067.
Wilson, Robert M., 3,462,097.
Darees, Michel: *See—*
Denis, Jean; and Darees, Michel,3,487,195.
Dargitz, Harvey J., to Case, J. I., Company. Reversible adjustable sleeve assembly for a plug valve. 3,420,259, 1-7-69, Cl. 137-270.
Darigo, Julius; Dickey, Rex E.; and Reed, David S., to Remington Arms Company, Inc. Process of forming jacketed projectiles. 3,431,612, 3-11-69, Cl. 29-1.23
Darl C., Jr., to Westinghouse Electric Corporation. Dragline propulsion apparatus. 3,448,819, 6-10-69, Cl. 180-8.
Darland, David W. Auxiliary nonmetallic crawler tractor overtrack. 3,441,321, 4-29-69, Cl. 305-35.
Darland, William G., Jr.; Kordesch, Karl V.; and van Lier, Johannes A., to Union Carbide Corporation. Porous conductive electrode having at least two zones. 3,423,247, 1-21-69, Cl. 136-120.
Darley, Henry C. H., to Shell Oil Company. Treatment of subsurface oil-bearing formations with oil-wetting cationic emulsions. 3,422,890, 1-21-69, Cl. 166-9.
Darley, Henry C. H., to Shell Oil Company. Oil recovery using combination oil-wetting and acidizing treatments. 3,483,923, 12-16-69, Cl. 166-271.
Darley, Merrill M.: *See—*
Block, Seymour S.; and Darley, Merrill M.,3,448,194.
Darley, Merrill M., to Allied Chemical Corporation. Dodecachlorooctahydro-1,3,4 metheno-2H cyclobuta (cd) pentalne as a rodenticide. 3,444,303, 5-13-69, Cl. 424-352.
Darling & Company: *See—*
Jensen, Charles C.; and Doody, Frank X., 3,464,824.
Darling, Arthur H.; and Weightman, Howard L., to Kaiser Gypsum Company, Inc. Process for making structural gypsum board for neutron shielding. 3,453,160, 7-1-69, Cl. 156-39.
Darling, Marvin C., to Cessna Aircraft Company, The. Maximum pressure control apparatus for hydraulic actuators. 3,470,792, 10-7-69, Cl. 91-396.
Darling, Richard H.: *See—*
Brown, Edgar Alan; and Darling, Richard H.,3,449,639.
Brown, Edgar Alan; Chou, Albert S.; and Darling, Richard H.,3,460,469.
Darlinger, Edward P.: *See—*
Hurst, Thomas B.; and Darlinger, Edward P.,3,420,508.
Darms, Fred J.: *See—*
Parsons, Robert E.; Darms, Fred J.; and Cox, William T.,3,436,038.
Darnall, John C.: *See—*
Murchison, John R.; Darnall, John C.; and Brassell, Clarence Morgan,3,429,239.
Darnall, Millard K.: *See—*
Anderson, Norman L.; Darnall, Millard K.; Morgan, William C.; Peterson, Laurel L.; and Stedman, Robert N.,3,478,902.
Darnell, Donald E., to Power Components, Inc. Actuators. 3,447,388, 6-3-69, Cl. 74-29.
Da Rold, James J.; and Trevisin, Rudolph F., to AMBAC Industries, Incorporated. Automatic braking system and apparatus for use therein. 3,463,919, 8-26-69, Cl. 246-182.
Daroszewski, Leon: *See—*
Orris, John Adam; and Daroszewski, Leon,3,435,884.
Darphin, Pierre. Device for indicating the relative elongation of fibers prior to breaking. 3,483,740, 12-16-69, Cl. 73-95.5
Darr, Christian, to Siemens Aktiengesellschaft. Relay switching arrangement with magnetically controllable semi-conductor. 3,451,031, 6-17-69, Cl. 338-32.
Darr, Donald E.; Edwards, George Byron; and Loehr, Clifford E., to PPG Industries, Inc. Method of preparing pigmentary metal oxides. 3,475,124, 10-28-69, Cl. 23-202.
Darr, Donald E.; Leiser, Roger S.; Loehr, Clifford E.; and Richardson, Kenneth W., to PPG Industries, Inc. Scraped removal of metal oxide deposit by a ceramic edge. 3,423,186, 1-21-69, Cl. 23-293.
Darr, Donald E.: *See—*
Lott, Harry, Jr.; Dietz, Albert; and Darr, Donald E.,3,468,689.
Darr, Frank M.; and Gronski, Chester A., to Textron, Inc., mesne. Needle-roller bearing. 3,462,205, 8-19-69, Cl. 308-212.
Darr, Joseph, Jr.; and Cissell, Ralph E. Threadless fastener apparatus. 3,443,472, 5-13-69, Cl. 85-7.
Darras, Raymond: *See—*
Baque, Pierre; and Darras, Raymond,3,480,430.
Darrasse, Philippe. Telephone handset holder. 3,435,158, 3-25-69, Cl. 179-157.
Darrieus, Georges, to Aktiengesellschaft Brown, Boveri & Cie. Antivibration suspension for stator of large turbogenerator. 3,462,624, 8-19-69, Cl. 310-51.
Darrow, George Richard, to Reynolds Metals Company. Multicolored aluminum anodizing process. 3,450,606, 6-17-69, Cl. 204-18.
Darrow, Kenneth A., to General Electric Company. Direct bonding of diamond to molybdenum. 3,481,825, 12-2-69, Cl. 161-188.
Darrow, Richard G.; Morse, William F.; and Reid, Edward A., Jr., to Columbia Gas System Service Corporation. Atmospheric flat-top stove. 3,470,862, 10-7-69, Cl. 126-39.

Darschewski, Kurt: *See—*
Naeser, Gerhard; Wessel, Otto; and Darschewski, Kurt,3,433,049.
Dart Industries Inc.: *See—*
Bachman, Gustave Bryant; Golding, Brage; and Murphy, Thomas P., 3,448,086.
Brock, Aaron T., 3,456,645.
Burrough, Robert E., 3,485,364.
Craven, William J., 3,458,598.
Doak, Kenneth W.; and Carrock, Frederick E., 3,448,175.
Erchak, Michael, Jr.; Carrock, Frederick E.; and Koch, Karl F., 3,487,127.
Hostetler, Donald E., 3,458,462.
Hostetler, Donald E., 3,478,130.
Klohs, Murle W.; and Petracek, Francis J., 3,471,519.
Lieberman, George; Palmer, Milton; and Prussin, Samuel B., 3,479,427.
Mangel, John J., 3,477,613.
Marinaccio, Paul J.; and Kelley, Joseph M., 3,472,805.
Ouano, Augustus C., 3,458,437.
Phillips, Robert E.; and Thiel, Charles G., 3,456,646.
Stryker, Abner B., Jr.; and Messina, Philip, 3,462,404.
Swett, James B., 3,451,328.
Swett, James B.; Bateman, Robert F.; and Brown, Thomas E., 3,484,035.
Thiel, Charles G., 3,456,644.
Dart Mfg. & Sales Co.: *See—*
Wilde, Robert L., 3,460,808.
Dart, Rodger W.; and Smythe, Richard E., to Sinclair Research, Inc., mesne. Method of and apparatus for imparting a seismic pulse to the earth. 3,439,773, 4-22-69, Cl. 181-0.5
Dartex: *See—*
Tobey, Richard, 3,470,382.
Dartex, Inc.: *See—*
Kleist, Robert A., 3,458,154.
Daruk, Anany Stanislavovich; and Rukhadze, Vilgeny Alexandrovich. Pneumatic force transducer. 3,472,257, 10-14-69, Cl. 137-81.5
Darula, Andrew J., to Astrup Company, The. Awning head rod molding. 3,478,806, 11-18-69, Cl. 160-45.
Darwent, Colin, to Telehoist Limited. Hydraulic motors and pumps. 3,444,819, 5-20-69, Cl. 103-125.
Daryl Industries, Inc.: *See—*
Miller, Donald L.; and Moncada, Gaylord A., 3,480,988.
Das, Balaram; and Van Senden, Karl Gerhard, to Lever Brothers Company. Bleaching compositions for hard surfaces. 3,459,669, 8-5-69, Cl. 252-99.
Das Gupta, Kamalaksha; Schnopper, Herbert W.; and Metzger, Albert E., to California Institute Research Foundation. Dual purpose optical instrument capable of simultane- ously acting as spectrometer and diffractometer. 3,440,419, 4-22-69, Cl. 250-51.5
Das Gupta, Ranjit; Jayasimha, Mysore Somasekhara Rau; Sitaramarao, Krishnappa; and Yegnanarayan, Rangaiyer, to Indian Telephone Industries Limited. Electromagnetic vibratory devices. 3,436,568, 4-1-69, Cl. 310-25.
DASA Corporation: *See—*
Kuehnle, Manfred R., 3,427,406.
Kuehnle, Manfred R., 3,471,842.
McFarland, Philip J., 3,452,160.
Sharples, Kenneth R., 3,435,421.
Shenk, Edwin K., 3,430,004.
Dashaveyor Company, The: *See—*
Dashew, Stanley A.; Tumpak, John; and Sutton, Charles D., 3,429,280.
Dasher, George F.; and Wall, Robert A., to Clairol Incorporated. Retarding damage to hair on the head with polymerizable vinyl monomers in bleaching or dyeing processes. 3,472,604, 10-14-69, Cl. 8-10.2
Dashew, Stanley A.; Tumpak, John; and Sutton, Charles D., to Dashaveyor Company, The. Rack and pinion vehicle propulsion system. 3,429,280, 2-25-69, Cl. 105-29.
da Silva, Augusto Tavares, to Silva, Pinho & Cruz, Limitada. Combination locks. 3,455,125, 7-15-69, Cl. 70-186.
Da Silva, Herman: *See—*
Van Duuren, Hendrik Cornelis Anthony; Da Silva, Herman; and Brok, Wilhelm Frederik,3,457,373.
Van Duuren, Hendrik Cornelis Anthony; Van Dalen, Christiaan Johannes; and Da Silva, Herman,3,461,238.
van Duuren, Hendrik Cornelis Anthony; Dalen, Christiaan Johannes van; and da Silva, Herman,3,467,776.
da Silva, Joao Jse Rodiles Frausto, to Cipan-Companhia Industrial Produtora de Antibioticos S.A.R.L., Societe Anonyme. Water-soluble derivatives of tetracyclines. 3,483,199, 12-9-69, Cl. 260-247.2
Daskalov, Kiril Dimitrov: *See—*
Slavov, Ivan Atanassov; Daskalov, Kiril Dimitrov; Ganev, Petar Levtchev; Mandjakov, Stefan Petrov; and Barzakov, Petko Ivanov,3,435,669.
Dastoli, Joseph; Dehnel, William; and Halepas, Leon J. Flower shipping container. 3,481,075, 12-2-69, Cl. 47-41.
Data Devices, Inc.: *See—*
Teuber, Anthony J., 3,475,782.
Data Disc, Incorporated: *See—*
Stevens, William Ward, Jr., 3,474,427.
Data Laboratories Limited: *See—*
Warman, Stephen Ivan, 3,430,960.
Data Pathing Incorporated: *See—*
Bridge, William H.; Birmingham, Donald J.; and Austad, Ralph William, 3,454,936.
Data Products Corporation: *See—*
Barrus, Gordon B., 3,423,658.
Breske, Carl D., 3,439,988.
Chur, Sung Pal, 3,435,415.
David, Charles W., 3,457,894.
David, Charles W., 3,486,274.
Mabon, Stuart P., 3,452,853.
Stuart-Williams, Raymond; and Chur, Sung Pal, 3,479,664.
Taylor, Geoffrey N.; and Bleininger, Leonard S., 3,430,006.
Data Resolved Tools Pty. Ltd.: *See—*
Kelsey, Christopher G., 3,446,116.
Data-Link Corporation: *See—*
Becking, Paul E.; and Hatfield, Charles T., 3,469,033.
Datacopy Limited: *See—*
Buckley, Douglas; Roebuck, Alec; and Firth, Donald, 3,471,311.
Datamark, Inc.: *See—*
Wassermann, Carl I., 3,476,044.
Datascope Corporation: *See—*
Saper, Lawrence, 3,457,452.
Datel Limited: *See—*
Will, James Hector MacDonald, 3,466,407.
Dates, Harold F., to Corning Glass Works. Raidation-reflecting media. 3,473,944, 10-21-69, Cl. 117-33.3
Dates, Harold F.; and Eaton, James J., to Corning Glass Works. Electroconductive composition and method. 3,484,284, 12-16-69, Cl. 117-221.
Dathe, Christian: *See—*
Muller, Richard; and Dathe, Christian,3,458,551.
Muller, Richard; Dathe, Christian; and Dressler, Manfred,3,449,394.
Muller, Richard; Reichel, Sigrid; and Dathe, Christian,3,465,012.
Dathe, Christian; and Muller, Richard, to Institut fur Silikon- und Fluorkarbon-Chemie. Production of amino-organofluorosilicates. 3,458,555, 7-29-69, Cl. 260-448.2
Dathe, Joachim: *See—*
Winstel, Gunter; Dathe, Joachim; and Zschauer, Karl Heinz,3,463,681.
Dathe, Wolfgang: *See—*
Zimmermann, Rolf; and Dathe, Wolfgang,3,431,308.
Dato, Angelo Actis. Method of lowering and raising the temperature of the human body. 3,425,419, 2-4-69, Cl. 128-400.
Datta, Ranajit K., to General Electric Company. Rare-earth oxide phosphors activated with bismuth. 3,475,342, 10-28-69, Cl. 252-301.4
Datwyler, Walter F., Jr.: *See—*
Taplin, Lael B.; Datwyler, Walter F., Jr.; Thompson, Thomas E.; and Madurski, Joseph P.,3,457,938.
Daubenberger, Charles B.; Bryant, Bill J.; and Daubenberger, Charles J., to Da/Pro Rubber Company, Incorporated. High pressure sealing gasket. 3,462,161, 8-19-69, Cl. 277-166.
Daubenberger, Charles J.: *See—*
Daubenberger, Charles B.; Bryant, Bill J.; and Daubenberger, Charles J.,3,462,161.
Daubenspeck, Benjamin K.; and Rickey, Edward A., to Remington Arms Company, Inc. Cartridge wad and process for the manufacture thereof. 3,440,072, 4-22-69, Cl. 106-200.
Dauber, Harry, to United States of America, Army. Direction finding apparatus. 3,450,479, 6-17-69, Cl. 356-141.
Daubert Chemical Company: *See—*
Moyer, Wendell W., Jr.; and Molenda, Wayne E., 3,469,002.
Nadherny, Russell J.; and Moyer, Wendell W., Jr., 3,430,816.
Daudin, Jacques; and Hayot, Raymond. Compositions for preserving gathered fruit such as citrus and bananas and method for preparing the same. 3,458,627, 7-29-69, Cl. 424-170.
Dauenbaugh, Robert L., to Keystone Consolidated Industries, Inc. Combination locker locks. 3,447,348, 6-3-69, Cl. 70-285.
Dauenhauer, Florian F. Vine carrier for hop picking machine. 3,474,895, 10-28-69, Cl. 198-135.
Daughenbaugh, Raymond S.; Hennessey, Charles A.; Holmes, Francis M.; and Lager, Samuel E. Impact-actuated object locator. 3,449,747, 6-10-69, Cl. 343-18.
Daugherty, Charles A., Jr.: *See—*
Meyer, Herbert J.; Daugherty, Charles A., Jr.; and Novy, John R.,3,480,738.
Daugherty, Don G.: *See—*
Harries, William S.; Piper, Robert G.; Daugherty, Don G.; Scribner, Neal; and Asnani, Gul C.,3,470,557.
Daugherty, Frank Z., to Ametek, Inc. Bi-directional clutch with two-way override. 3,437,185, 4-8-69, Cl. 192-26.

Daugherty, Phillip M.; Lovejoy, Charles K.; and Vaughan, Harry L., to Scripto, Inc. Method of producing a porous, substantially rigid rod type nib for writing instruments. 3,467,564, 9-16-69, Cl. 156-154.
Daugherty, Ralph K., 1/2 to Hanscom, Genevieve I., and 1/2 to Hanscom, Genevieve I., Magnuson, Robert, and Duggan, Lois J., trustees of the estate of Magnuson, Roy M., deceased. Apparatus for peeling vegetables or fruits. 3,437,116, 4-8-69, Cl. 146-49.
Daugherty, Ray W., to Ethyl Corporation. Fluid transfer apparatus. 3,464,465, 9-2-69, Cl. 141-59.
Daughetee, Lew H.: *See*—
Anton, Nicholas T.; and Daughetee, Lew H.,3,434,247.
Daughton, James M.; and Keefe, George E., to International Business Machines Corporation. Magnetic film memory with low drive current requirements. 3,456,248, 7-15-69, Cl. 340-174.
Daugirdas, Kristupas: *See*—
Lynn, Robert J.; and Daugirdas, Kristupas,3,438,148.
Lynn, Robert J.; and Daugirdas, Kristupas,3,462,881.
Daugirdas, Kristupas, to Vapor Corporation. Plug door mechanism. 3,453,778, 7-8-69, Cl. 49-214.
D'Aulerio, Herman, to United States of America, Navy. Aircraft arresting gear booster unit. 3,469,808, 9-30-69, Cl. 244-110.
Daum, Gerhard; Modic, Rudolf; and Richtzenhain, Hermann, to Dynamit Nobel Aktiengesellschaft. Production of 3,4,5,6-tetrahydropyridine derivatives containing γ-aminopropyl groups. 3,435,045, 3-25-69, Cl. 260-296.
Daum, Whilhelm; and Sippel, Hans Joachim, to Merck, E., A.G. Pharmaceutical dragee. 3,420,931, 1-7-69, Cl. 424-33.
Daumard, Claude: *See*—
Sicard, Louis; and Daumard, Claude,3,466,151.
Daumiller, Guenther: *See*—
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Weber, Heinz; and Willersinn, Herbert,3,457,204.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert,3,472,799.
Daumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of unsaturated isobutylene graft copolymers. 3,476,831, 11-4-69, Cl. 260-879.
Daumiller, Guenther; and Lautenschlager, Walter, to Badische Anilin- & Soda- Fabrik Aktiengesellschaft. Shaped articles of polyamide having an antistatic finish. 3,428,710, 2-18-69, Cl. 260-857.
Weber, Heinz; Burger, Heinz; Daumiller, Guenther; Willersinn, Herbert; and Grohmann, Johannes,3,420,786.
Daunis, George H. Davit for a dinghy or other small boat. 3,442,241, 5-6-69, Cl. 144-43.5
Dauphinee, Thomas M., to Canadian Patents and Development Limited. Conductivity measuring apparatus with means for comparing sampled and reference voltages. 3,474,330, 10-21-69, Cl. 324-30.
Daur, Hans-Karl, to Daimler-Benz Aktiengesellschaft. Joint coupling. 3,478,539, 11-18-69, Cl. 64-13.
Daus, Donald A.; and Misch, Robert D., to MBT Corporation. Vapor-coating apparatus. 3,447,506, 6-3-69, Cl. 118-49.
Dauser, William C. Electrical connector. 3,478,303, 11-11-69, Cl. 339-95.
Dauson, Samuel: *See*—
Gallagher, Raymond G.; Mazzoni, Renato J.; and Dauson, Samuel,3,466,826.
Dauth, Christoph Eugen; Tonjes, Heinz Karl Wilhelm; Heidenbluth, Karlheinz; and Schmidt, Joachim Fritz, to VEB Arzneimittelwerk. Production of isoindoline-2-carboxylic acid amide. 3,475,449, 10-28-69, Cl. 260-326.1
Dauwalder, Armin. Convertible furniture having a frame and a pivoting member. 3,436,768, 4-8-69, Cl. 5-2.
Davang, Samuel H.: *See*—
Tudor, Sidney; Weisstuch, Aaron; and Davang, Samuel H.,3,447,969.
Daveau, Bernard J.: *See*—
Alfandari, Roger S.; and Daveau, Bernard J.,3,448,455.
Billon, Guy M.; and Daveau, Bernard J.,3,435,380.
Alfandari, Roger; and Daveau, Bernard,3,448,450.
Davee, Robert L.; and Louzos, Demetrious V., to Union Carbide Corporation. Process for producing electrodes for galvanic batteries. 3,432,351, 3-11-69, Cl. 136-67.
D'Avello, Faust S.:*See*—
Hawkes, Joseph S.; and D'Avello, Faust S.,3,421,535.
Davenport, Buell Edward; Flynn, John Henry, IV; and Jacobs, Alfred, du Pont de Nemours, E. I., and Company. Method of adding an antioxidant to a continuous polymerization process. 3,431,236, 3-4-69, Cl. 260-45.75
Davenport, Charles T.: *See*—
Davidson, Gareth M.; and Davenport, Charles T.,3,464,255.
Davenport, Donald E., to Singer-General Precision, Inc. Explosive welding. 3,434,197, 3-25-69, Cl. 29-470.1
Davenport, Elmer T.: *See*—
Davenport, William R.; and Davenport, Elmer T.,3,474,372.
Davenport, Francis Robert: *See*—
Hemming, David Henry; and Davenport, Francis Robert,3,485,208.
Davenport, James D.: *See*—
Gorman, Marvin; Haney, Michael E., Jr.; Lively, David H.; and Davenport, James D.,3,476,648.
Davenport, Ralph M., Jr.; Kratzer, Alfred L.; Sapp, Robert W.; Thomas, William T.; and Weichardt, Heinz H., to Azoplate Corporation, mesne. Electrophotographic material comprising a multilayer support having a barrier layer over a duplex paper base. 3,468,660, 9-23-69, Cl. 96-1.5
Davenport, Richard M.: *See*—
Ernest, Richard B.; Swanstrom, Kenneth A.; and Davenport, Richard M.,3,452,418.
Davenport, Stanley, Jr., to Southern Athletic, Inc. Athletic pad for attachment to elastic support. 3,484,868, 12-23-69, Cl. 2-2.
Davenport, Thomas G. Cubical game piece container having different game board patterns on its faces. 3,430,962, 3-4-69, Cl. 273-136.
Davenport, William R.; and Davenport, Elmer T., to Crowell Designs Inc. Temperature-responsive switch having self-contained heater. 3,474,372, 10-21-69, Cl. 337-1.
Davenport, William S.: *See*—
Church, Charles H.; Davenport, William S.; and Haun, Robert D., Jr.,3,483,481.
Davey, Anthony Walter: *See*—
Reeks, Christopher George; and Davey, Anthony Walter,3,462,883.
Ward, Frederick Gifford; and Davey, Anthony W.,3,426,887.
Davey, Donald G.: *See*—
Carstensen, Walter H.; and Davey, Donald G.,3,444,972.
Davey, Edward Leslie, to British Insulated Callender's Cables Limited. Insulated electric power cables. 3,429,979, 2-25-69, Cl. 174-15.
Davey, Joseph, to County Commerical Cars Limited. Driving transmissions for the front and rear wheels of a vehicle. 3,475,989, 11-4-69, Cl. 74-606.
Davey, Victor Stanley: *See*—
Patrickson, John Brian; Davey, Victor Stanley; and Wedepohl, Leonhard Martin,3,465,208.
Davi, Cosmo. Identification tag. 3,429,064, 2-25-69, Cl. 40-20.
David, Amnon: *See*—
Diskin, Mordechai; and David, Amnon,3,481,334.
David, Bernard: *See*—
Nesteroff, Wladimir; Lancelot, Yves; and David, Bernard,3,429,388.
David, Charles Antoine Marius, to Societe Industrielle Bull-General Electric (Societe Anonyme). Element for resistive permanent memory. 3,428,954, 2-18-69, Cl. 340-173.
David, Charles E.; and O'Mary, Hollis W., to United States of America, Army. Solid state interpolator. 3,431,501, 3-4-69, Cl. 328-161.
David, Charles Henri Auguste, to Parsons & Whittemore. Machines for the making of corrugated board. 3,484,320, 12-16-69, Cl. 156-473.
David, Charles W., to Data Products Corporation. Apparatus for coating flat surface of a disc with protective material. 3,457,894, 7-29-69, Cl. 118-52.
David, Charles W., to Data Products Corporation. Apparatus for honing magnetic discs. 3,486,274, 12-30-69, Cl. 51-132.
David, Charles W.; and Munson, Eugena A., to MRX Corporation. Apparatus for and method of finishing memory discs. 3,481,083, 12-2-69, Cl. 51-62.
David, Charles W.; and Munson, Eugene A., to Disc Pack Corporation, mesne. Apparatus for and method of cleaning memory discs. 3,479,222, 11-18-69, Cl. 134-33.
David, Charles; and Wheaton, Herbert F., to American Flange & Manufacturing Co., Inc. Capping conversion apparatus and method. 3,470,667, 10-7-69, Cl. 53-3.
David, Harri: *See*—
Kochalski, Horst; Rudazinat, Willy; Suck, Hans; Rode, Ludwig; David, Harri; and Erdmann, Otto,3,481,447.
David, John Cyrenius, to Du Pont de Nemours, E. I., and Company. Process for producing a bonded non-woven sheet. 3,442,740, 5-6-69, Cl. 156-181.
David, Melvin J.: *See*—
Matthews, John Robert; and David, Melvin J.,3,458,934.
Davidow, Martin A.; and Klee, Maurice, to Case, J. I., Company. Grain separating mechanism for threshing machines. 3,478,749, 11-18-69, Cl. 130-26.
Davidow, Martin A.; and Rathje, Allan J., to Case, J. I., Company. Magnetic filler bar. 3,439,684, 4-22-69, Cl. 130-27.
Davidowich, George: *See*—
Hawkins, Raymond L.; and Davidowich, George,3,438,808.
Davidse, Pieter D., to International Business Machines Corporation. RF cathodic sputtering apparatus having an electrically conductive housing. 3,471,396, 10-7-69, Cl. 204-298.
Davidse, Pieter D.; Dhaka, Vir A.; and Maissel, Leon I., to International Business Machines Corporation. Method of forming openings using sequential sputtering and chemical etching. 3,474,021, 10-21-69, Cl. 204-192.

Davidse, Pieter D.; Koster, Lawrence R.; and Himes, Walter, to International Business Machines Corporation. Method of making a workpiece at a uniform potential during cathode sputtering. 3,423,303, 1-21-69, Cl. 204-192.
Davidse, Pieter D.; and Maissel, Leon I., to International Business Machines Corporation. Low power density sputtering on semiconductors. 3,432,417, 3-11-69, Cl. 204-192.
Davidse, Pieter D.: *See*—
Flur, Barry L.; Davidse, Pieter D.; and Maissel, Leon I.,3,480,922.
Davidson, Alan J.: *See*—
Bollinger, Frederick W.; Portnoff, Joel B.; and Davidson, Alan J.,3,482,015.
Davidson, Arthur R.: *See*—
Lamb, Frank G.; and Davidson, Arthur R.,3,477,242.
Davidson, Colin H. Joining building units. 3,456,407, 7-22-69, Cl. 52-100.
Davidson, Colin H. Building structure comprising collapsible building units filled in situ with concrete. 3,481,093, 12-2-69, Cl. 52-293.
Davidson, Daniel Fraser: *See*—
Hackney, Stanley; and Davidson, Daniel Fraser,3,431,167.
Roach, Peter Francis; and Davidson, Daniel Fraser,3,462,997.
Davidson, Edmund B., to Esso Research and Engineering Company. Alkylated derivatives of vinyl aromatic copolymers. 3,438,950, 4-15-69, Cl. 260-78.4
Davidson, Edmund B., to Esso Research and Engineering Company. Catalyst for olefin polymerization. 3,455,890, 7-15-69, Cl. 260-85.3
Davidson, Eugene M.; Gunter, Addison Y.; and Owen, Tom E., to Hudson Engineering Corporation. Manufacture of plate fin tube modules. 3,482,299, 12-9-69, Cl. 29-157.3
Davidson, Evan E.; and Regitz, William M., to Bell Telephone Laboratories, Incorporated. Selector matrix check circuit. 3,460,092, 8-5-69, Cl. 340-166.
Davidson, Everett E.: *See*—
Wash, Roy L.; and Davidson, Everett E.,3,420,372.
Davidson, Gareth M.; and Davenport, Charles T., to AMBAC Industries, Incorporated. Accelerometer and method for its calibration. 3,464,255, 9-2-69, Cl. 73-1.
Davidson, George L., to Tuttle, Inc. Exhaust gas muffler with multiple outlet tubes. 3,447,630, 6-3-69, Cl. 181-60.
Davidson Holdings Pty., Limited: *See*—
Green, Ronald Frank, 3,444,974.
Davidson, Hubert, to Wheelabrator Corporation, The. Wire blast machine. 3,481,080, 12-2-69, Cl. 51-9.
Davidson, Ian A.; Hantusch, Gerald H.; and May, George A., to Northern Electric Company Limited. Method of making large scale integrated circuit. 3,423,822, 1-28-69, Cl. 29-574.
Davidson, James B., to Dow Corning Corporation. Foley catheter with silicone rubber coating. 3,434,869, 3-25-69, Cl. 117-94.
Davidson, John Bruce, to Coventry Gauge & Tool Company Limited. Clutch with non-rotatable fluid motor. 3,444,971, 5-20-69, Cl. 192-85.
Davidson, John Bruce, to Coventry Gauge & Tool Company Limited. Electromagnetic clutch with means to accommodate uneven wear across clutch discs. 3,484,816, 12-16-69, Cl. 192-84.
Davidson, Lee E. Continuous surveillance photographic recorder. 3,445,158, 5-20-69, Cl. 352-68.
Davidson, Louis. Scenery system. 3,447,274, 6-3-69, Cl. 52-173.
Davidson, Louis. Panel construction with transverse curvature. 3,456,602, 7-22-69, Cl. 108-56.
Davidson, Miron: *See*—
Scroggie, James A.; Davidson, Miron; Hall, Floyd Charles; and Farley, George Albert,3,419,925.
Davidson, Ralph; and Greenberg, David R., to Sperry Rand Corporation. Bidirectional switching means for electrical lamps. 3,440,489, 4-22-69, Cl. 315-209.
Davidson, Richard M., to Bell & Howell Company. Notched card for teaching machine. 3,477,141, 11-11-69, Cl. 35-9.
Davidson, Richard M.; and Reekie, James, to Bell & Howell Company. Projection system for projecting constant size images from variable size frames. 3,450,468, 6-17-69, Cl. 352-26.
Davidson, Robert E.; Eads, Charles L.; and Soter, Samuel A., to Adams Rite Manufacturing Company. Lock mounting means for narrow stile door frame. 3,479,851, 11-25-69, Cl. 70-451.
Davidson, Robert R., to Borg-Warner Corporation. Flow divider. 3,421,532, 1-14-69, Cl. 137-101.
Davidson, Robert R., to Lear Siegler, Inc. Gear pump seal. 3,473,476, 10-21-69, Cl. 103-126.
Davidson, Robert W., to American Machine & Foundry Company. Low profile dolly. 3,464,713, 9-2-69, Cl. 280-79.1
Davidson, Thomas William: *See*—
Ashpole, Raymond Sidney; and Davidson, Thomas William,3,434,872.
Davidson, Watson P. Air humidifier and filter. 3,480,263, 11-25-69, Cl. 261-29.
Davidson, William Theodore, to Canadian General Electric Company Limited. Means for mounting electrical radiant heating wires. 3,428,779, 2-18-69, Cl. 219-213.
Davie, William R., to United States Steel Corporation. Antifoulant composition and method. 3,476,577, 11-4-69, Cl. 117-33.
Davies, Alwyn G., to M&T Chemicals Inc. Process for preparing carbodiimides. 3,442,947, 5-6-69, Cl. 260-551.
Davies, Alwyn G., to M & T Chemicals, Inc. Unsymmetrical isocyanurate production. 3,450,701, 6-17-69, Cl. 260-248.
Davies, Anthony Roger; and O'Donoghue, John Peter, to Lucas, Joseph, (Industries) Limited. Hydro-static thrust bearings. 3,466,103, 9-9-69, Cl. 308-160.
Davies, Arthur E. Turf cutter. 3,463,238, 8-26-69, Cl. 172-19.
Davies, Barrie L.: *See*—
Cannon, Cyril G.; Davies, Barrie L.; Selwood, Alan; and Williams, Roy A.,3,468,117.
Cannon, Cyril G.; Selwood, Alan; Davies, Barrie L.; and Williams, Roy A.,3,486,318.
Davies, Barrie Linton; and Selwood, Alan, to British Nylon Spinners Limited. Process for the production of a non-woven web of a continuous filament yarn. 3,423,266, 1-21-69, Cl. 156-167.
Davies, Barrie Linton; and Selwood, Alan, to British Nylon Spinners Limited. Process for making a bulky, multifilament, substantially twistless synthetic yarn and product thereof. 3,481,558, 12-2-69, Cl. 242-159.
Davies, Ben; and Carini, George F., to Dresser Industries, Inc. Phosphate-impregnated magnesite brick. 3,449,138, 6-10-69, Cl. 106-58.
Davies, Ben; and Carini, George F., to Dresser Industries, Inc. Chemically bonded magnesite brick. 3,479,194, 11-18-69, Cl. 106-58.
Davies, Carl A., to Mobil Oil Corporation. Method and apparatus for plugging well pipe perforations. 3,437,147, 4-8-69, Cl. 166-42.
Davies, Charles. Air diffuser. 3,448,675, 6-10-69, Cl. 98-40.
Davies David J.: *See*—
Priese, Werner K.; and Davies David J.,3,445,087.
Priese, Werner K.; and Davies, David J.,3,480,253.
Davies, Douglas W. L., to G.K.N. Group Services Limited. Apparatus for measurement of oxygen potential of gases at high temperatures. 3,454,486, 7-8-69, Cl. 204-195.
Davies, Duane W.; and Ingwerson, Dale R., to Sperry Rand Corporation. Electrostatically supported inertial device. 3,451,274, 6-24-69, Cl. 74-5.
Davies, Edward William, to English Electric Company Limited, The. Wiper assemblies. 3,452,932, 7-1-69, Cl. 239-284.
Davies, Eric, to Marconi Company Limited, The. Schmitt trigger circuits. 3,454,793, 7-8-69, Cl. 307-290.
Davies, Evan D. Water saving device for water closets. 3,431,564, 3-11-69, Cl. 4-40.
Davies, Fred. Pipe-fitting tools. 3,468,147, 9-23-69, Cl. 72-112.
Davies, George W. Washing and sterilizing device. 3,478,758, 11-18-69, Cl. 134-85.
Davies, Gerald Thomas; and Brown, Kenneth Gordon, to British Nylon Spinners Limited. Device for applying liquid to travelling filaments. 3,421,926, 1-14-69, Cl. 117-66.
Davies, Gwyn: *See*—
Milner, Ernest; and Davies, Gwyn,3,470,332.
Davies, Harold, to Thiokol Chemical Corporation. High pressure valve with cooperating bevelled sealing faces. 3,428,293, 2-18-69, Cl. 251-170.
Davies, Harvey G. Apparatus for slicing and comminuting food products. 3,452,795, 7-1-69, Cl. 146-150.
Davies, Henry; Houlgate, Henry J.; Larkby, Geoffrey W. H.; and Peat, Derek, to British Broadcasting Corporation, The. Tape lacing mechanism. 3,458,156, 7-29-69, Cl. 242-55.13
Davies, James A.; and Sherman, Philip B., to Texaco Inc. Method of solvent recovery in refining hydrocarbon mixtures with N-methyl-2-pyrrolidone. 3,476,681, 11-4-69, Cl. 208-326.
Davies, James W.; and Carow, Walter M., to Singer-General Precision, Inc. Two-axis accelerometer. 3,438,265, 4-15-69, Cl. 73-516.
Davies, John Peter, to Scragg, Ernest, & Sons Limited. Packaging mechanisms for textile machines. 3,484,050, 12-16-69, Cl. 242-26.3
Davies, Kenneth Edward, to National Biscuit Company. Container filling apparatus with automatic checkweigher. 3,484,813, 12-16-69, Cl. 177-50.
Davies, Louis Walter, to Amalgamated Wireless (Australasia) Limited. Motion translator and self-synchronous system using same. 3,439,173, 4-15-69, Cl. 250-212.
Davies, Phineas, to Imperial Chemical Industries Limited. Steam reforming of hydrocarbons. 3,421,871, 1-14-69, Cl. 48-214.
Davies, Phineas; and Hughes, David Owen, to Imperial Chemical Industries Limited. Catalyst for steam reforming of hydrocarbons. 3,432,443, 3-11-69, Cl. 252-459.
Davies, Richard E., to Air Reduction Company, Incorporated. Process for producing vinyl chloride/ethylene and vinyl chloride/propylene copolymers. 3,468,859, 9-23-69, Cl. 260-87.5
Davies, Robert W.: *See*—
Brown, Ford G.; Davies, Robert W.; and Kellner, George D.,3,420,511.
Aitchison, Colin Stuart; and Davies, Robert,3,467,907.

Davies, Robin Evan; and Howorth, Douglas, to Marconi Company Limited, The, and Standard Telephones & Cables Limited. Television fieldnrepetition frequency conversion using variable delay. 3,457,369, 7-22-69, Cl. 178-6.8
Davies, Stanley: *See*—
Johnson, Bryan Kingsley; and Davies, Stanley,3,487,142.
Davies, Stuart Duncan; and Chilman, John Alfred, to Dowty Rotol Limited. Bladed rotors. 3,420,311, 1-7-69, Cl. 170-160.32
Davies, Stuart Duncan; and Chilman, John Alfred, to Dowty Rotol Limited. Gas turbine engines. 3,468,473, 9-23-69, Cl. 230-114.
Davies, Stuart Duncan; and Chilman, John Alfred, to Dowty Rotol Limited. Gas turbine engines. 3,476,486, 11-4-69, Cl.
Davies, Trevor; East, Anthony Julian; and Mc Creath, Michael King, to Imperial Chemical Industries Limited. Polyesters of improved dyeability containing tertiary amines. 3,432,467, 3-11-69, Cl. 260-47.
Davies-White, William A., to Laboratory for Electronics, Inc. Liquified gas delivery system. 3,440,829, 4-29-69, Cl. 62-51.
Davies, William Alan Mc Farlane: *See*—
Turner, John Cameron; and Davies, William Alan Mc Farlane,3,452,078.
Davies, William G.; Elliott, Brian; and Kendrick, Thomas C., to Midland Silicones Limited. Polymerization of siloxanes. 3,481,898, 12-2-69, Cl. 260-46.5
Davies, William John; Leyland, Rowland Powell; and Holmes, Albert George, to Rolls-Royce Limited. Apparatus for testing the profiles or gear teeth. 3,483,630, 12-16-69, Cl. 33-179.5
D'Avignon, Jacques; and Power, Bernard A., to Weather Engineering Corporation of Canada Ltd. Method and apparatus for seeding clouds. 3,441,214, 4-29-69, Cl. 239-2.
Davin, Heinrich: *See*—
Keller, Willi; Davin, Heinrich; and Kell, Hans,3,485,516.
Davin, Jean Jullien, to Crouzet S.r.l. Programmer for controlling switches of washing machines and the like. 3,449,699, 6-10-69, Cl. 335-138.
Da Vincii, Anthony P.: *See*—
Bockno, Gregory C.; Da Vincii, Anthony P.; and Schappel, Joseph W.,3,434,913.
Davis & Furber Machine Company: *See*—
Howes, Irving C.; Anderson, Little A., Jr.; and Netti, Anthony, 3,460,204.
Davis Aircraft Products, Inc.: *See*—
Higuchi, Nori, 3,422,508.
Higuchi, Nori, 3,423,799.
Davis, Albert D.: *See*—
Adams, Lowell K.; and Davis, Albert D.,3,450,060.
Davis, Albert W., to Poly-Matic Fountain, Inc. Automatic poultry drinker. 3,450,103, 6-17-69, Cl. 119-80.
Davis, Albert W.; and Franklin, Burton P., to Poly-Matic Fountain, Inc., mesne. Automatic poultry drinker. 3,450,102, 6-17-69, Cl. 119-80.
Davis, Alfred Charles, to Imperial Tobacco Company (of Great Britain and Ireland) Limited, The. Filter cigarette having a permeable band wrap. 3,482,579, 12-9-69, Cl. 131-9.
Davis, Alfred C.: *See*—
Jones, David Aubrey; Davis, Alfred C.; and Gaunt, Eric F.,3,422,819.
Davis, Allan C., to Meyercord Co., The. Packer assembly. 3,477,198, 11-11-69, Cl. 53-55.
Davis, Allan Everett. Log wall flex joint. 3,460,301, 8-12-69, Cl. 52-233.
Davis, Allen V. C. Disk spring motion converter. 3,472,980, 10-14-69, Cl. 200-67.
Davis, Allen V. C. Frangible safety means for relieving excess fluid pressure. 3,482,732, 12-9-69, Cl. 220-89.
Davis, Arnold Rogers, to American Cyanamid Company. Use of chlorinated melamines in curing of polyurethanes. 3,438,916, 4-15-69, Cl. 260-18.
Davis, Bayard C. Apparatus and method for measuring temperature. 3,444,740, 5-20-69, Cl. 73-259.
Davis, Benjamin I.; and Klyce, Thomas A., to Ranger Tool Co., Inc. Apparatus for chilling sausage links. 3,482,417, 12-9-69, Cl. 62-375.
Davis, Bernard J., to Reichhold Chemicals, Inc. Method of making modified beta-pinene resin and resultant product. 3,467,632, 9-16-69, Cl. 260-80.7
Davis, Bernard J.; and Ranson, Wesley J., to Reichhold Chemicals, Inc. Vinyl aromatic-acrylic copolymers and process of producing the same. 3,427,275, 2-11-69, Cl. 260-31.8
Davis, Bernard J.; and Rosetti, Larry B., to Reichhold Chemicals, Inc. Polyalkyl cycloalkyl phenol polymers. 3,431,310, 3-4-69, Cl. 260-619.
Davis, Bill A.: *See*—
Austin, Russell A., 3,431,560.
Davis, Billy W., to Texas Instruments, Incorporated. Self-ballasting streamer. 3,436,776, 4-8-69, Cl. 9-8.
Davis, Billy W.; and Johnston, Roy C., to Texas Instruments, Incorporated. Marine hydrophone vibration isolation. 3,437,171, 4-8-69, Cl. 181-0.5
Davis, Buell L.; and Pulliam, Richard D., to Rollett Mfg. Inc. Folded wet tower guide. 3,467,293, 9-16-69, Cl. 226-189.
Davis, Burns; and Lyon, Herbert Ralph, to Eastman Kodak Company. Solvent extraction of polymeric glycols using acetonitrile. 3,461,169, 8-12-69, Cl. 260-611.
Davis, Calvin M., to General Electric Company. Semiconductor devices. 3,428,870, 2-18-69, Cl. 317-234.
Davis, Carl B. Wheel chock. 3,444,963, 5-20-69, Cl. 188-32.
Davis, Carlisle R., Jr.: *See*—
Walker, Frank H.; and Davis, Carlisle R., Jr.,3,466,869.
Davis, Charles Herman. Control means for sludge removal. 3,429,441, 2-25-69, Cl. 210-109.
Davis, Charles H., to Tennessee Valley Authority. Process for producing granular nitric phosphate fertilizer with high phosphate availability. 3,436,205, 4-1-69, Cl. 71-39.
Davis, Charles Stewart, to Norwich Pharmacal Company, The. Certain aminoalkyl hydrazidines. 3,458,500, 7-29-69, Cl. 260-239.
Davis, Clement, & Matteson, Donald W.: *See*—
Matteson, Donald W., 3,420,051.
Davis, Cloyd, to Modern Sewerage Systems, Inc. Septic tank structure. 3,451,553, 6-24-69, Cl. 210-170.
Davis, Dale R.: *See*—
Stoft, Paul E.; and Davis, Dale R.,3,474,456.
Davis, Daniel H., Jr., to Burroughs Corporation. Record card handling and registering apparatus. 3,430,947, 3-4-69, Cl. 271-53.
Davis, Darwin Darrell, to Du Pont de Nemours, E. I., and Company. Electrolytic production of adiponitrile. 3,481,846, 12-2-69, Cl. 204-74.
Davis, David Maurice. Shell for cleaning a shotgun. 3,476,047, 11-4-69, Cl. 102-39.
Davis, David T.: *See*—
Barbato, Robert E.; and Davis, David T.,3,436,488.
Davis, David W.: *See*—
Dix, Sydney; and Davis, David W.,3,423,638.
Davis, Dearl Keith; Hendrix, Warren P.; and Orr, Clyde, Jr. Particle classifier. 3,438,264, 4-15-69, Cl. 73-432.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Assembly apparatus. 3,423,814, 1-28-69, Cl. 29-203.
Davis, Dhu Aine J. Missile launching toy. 3,430,620, 3-4-69, Cl. 124-27.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Electrical coil. 3,453,575, 7-1-69, Cl. 336-192.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Electrical coil. 3,457,534, 7-22-69, Cl. 336-192.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Magnetic snap action electric switches. 3,458,841, 7-29-69, Cl. 335-207.
Davis, Donald W.: *See*—
Heller, William C., Jr.; and Davis, Donald W.,3,459,625.
Davis, Donovan C.: *See*—
Green, David J.; Tasker, Raymond B.; and Davis, Donovan C.,3,450,990.
Davis, Dwane L.: *See*—
Baker, Charles E., 3,420,486.
Davis, Earl C. Trailer coupler. 3,433,503, 3-18-69, Cl. 280-512.
Davis, Earl K., to Westinghouse Electric Corporation. Capacitors employing lead silico-borate glass compositions. 3,469,161, 9-23-69, Cl. 317-258.
Davis, Edward A., to Goodrich, B. F., Company, The. Transfer molding method. 3,483,287, 12-9-69, Cl. 264-297.
Davis, Edward J.: *See*—
Marsh, Walter R.; and Davis, Edward J.,3,469,787.
Davis, Edward L. Perpetual calendar machine. 3,443,331, 5-13-69, Cl. 40-109.
Davis, Edward M., Jr.; McNutt, Robert D.; and Mones, Arthur H., to International Business Machines Corporation. Connections for microminiature functional components. 3,456,159, 7-15-69, Cl. 317-101.
Davis, Edward M., Jr.; and Mones, Arthur H., to International Business Machines Corporation. Functional components. 3,456,158, 7-15-69, Cl. 317-101.
Davis, Edwin S.: *See*—
Navon, David H.; and Davis, Edwin S.,3,445,736.
Davis Electronics Corporation: *See*—
Ebershoff, Kenneth L.; and Miller, Kenneth H., 3,443,106.
Davis Emergency Equipment Co., Inc.: *See*—
Schaeffer, Matthew J., 3,421,362.
Davis, Ephraim F. Automobile enclosure. 3,474,803, 10-28-69, Cl. 135-5.
Davis, Eugene L., Jr., to Du Pont de Nemours, E. I., and Company. Apparatus for interlacing multifilament yarn. 3,443,292, 5-13-69, Cl. 28-1.
Davis, Francis A., Jr., to Paramount Packaging Corporation. Thermoplastic bag manufacturing apparatus. 3,460,441, 8-12-69, Cl. 93-8.
Davis, Francis A., Jr., to Paramount Packaging Corporation. Method and apparatus for making plastic bags. 3,470,795, 10-7-69, Cl. 93-8.
Davis, Francis A., Jr.;, to Paramount Packaging Corporation. Heating apparauts. 3,481,051, 12-2-69, Cl. 34-162.

Davis, Francis E., Jr.: *See—*
Derr, Walter R., Jr.; and Davis, Francis E., Jr.,3,474,026.
Peters, James; Clift, Mason A., Jr.; Stagg, Theodore B., Jr.; and Davis, Francis E., Jr.,3,469,111.

Davis, Frank C.; Luther, William B.; and Martinson, Donald L., to Shell Oil Company. Adhesive compositions comprising certain block copolymers and selected resins. 3,427,269, 2-11-69, Cl. 260-27.

Davis, Frank L. Cargo tiedown with lock for adjusted, web tensioned relation. 3,423,800, 1-28-69, Cl. 24-68.

Davis, Frank L. Cargo tiedown net combination of web adjusters, end connectors and reeving hardware. 3,478,394, 11-18-69, Cl. 24-75.

Davis, Frederick George; and Dean, Robert, to Fisons Fertilizers Limited. Sack filling. 3,468,349, 9-23-69, Cl. 141-75.

Davis, George D.: *See—*
Church, Thomas A.; and Davis, George D.,3,478,812.

Davis, George H., to Houdaille Industries, Inc. Tool for assembling vane and abutment seals in rotary actuators and the like. 3,447,226, 6-3-69, Cl. 29-235.

Davis, George M.; and Lander, William M., to Index Packages, Inc. Inversion or tilt indicator. 3,467,053, 9-16-69, Cl. 116-114.

Davis, George T.: *See—*
Rosenblatt, David H.; and Davis, George T.,3,483,210.

Davis, Gershon J.: *See—*
Craig, Winfred C.; Davis, Gershon J.; and Shull, Peter O.,3,474,144.

Davis, Gilbert C.: *See—*
Dee, William C., 3,427,879.
Dee, William Colin, 3,437,387.

Davis, Gilbert Colin: *See—*
Dee, William Colin, 3,446,150.

Davis, Glenn Gary; and Dahlin, Robert Walton, 50% to Lavine, Morris. Cigarette snuffer. 3,431,916, 3-11-69, Cl. 131-256.

Davis, Harold B.: *See—*
Davis, Troy B., 3,442,469.

Davis, Harold G.; and Brunson, Thayer R., to Rocky Mountain Dental Products Co. Welding device. 3,452,177, 6-24-69, Cl. 219-78.

Davis, Harry E. Method and apparatus for making stirrers. 3,441,637, 4-29-69, Cl. 264-95.

Davis, Harry E.; and Pfeiffer, Fred B. Method and apparatus for packaging drinking straws. 3,477,191, 11-11-69, Cl. 53-14.

Davis, Harry F.: *See—*
Zubal, Anthony; and Davis, Harry F.,3,464,101.

Davis, Harry G.: *See—*
Eddy, Gaines W.; Davis, Harry G.; Beroza, Morton; and McGovern, Terrence P.,3,485,868.

Davis, Harry S. Sequential distributing valve. 3,472,265, 10-14-69, Cl. 137-119.

Davis, Herman E.; and Ownby, James C., to Eastman Kodak Company. Sludging inhibited hydrocarbon fuel. 3,447,917, 6-3-69, Cl. 44-66.

Davis, Horace R.; and Taylor, Charles W., to Minnesota Mining and Manufacturing Company. Cured polyarylene oxides and process therefor. 3,455,736, 7-15-69, Cl. 117-218.

Davis, Howard Arthur; and Karickhoff, Michael, to Du Pont de Nemours, E. I., and Company. Post-formable film. 3,455,720, 7-15-69, Cl. 117-7.

Davis, Howard C.; and Trumbull, Harold E., to Xerox Corporation, mesne. Pressure producing means for reproduction machine. 3,433,154, 3-18-69, Cl. 101-132.

Davis, Howard F., Jr., to Carborundum Company, The. Barrel finishing media. 3,428,443, 2-18-69, Cl. 51-309.

Davis, Hugh J.; and Jones, Edmund A., said Davis assor. to Johns Hopkins University, The, and said Jones assor to Ortho Pharmaceutical Corporation. Intrauterine contraceptive device. 3,431,905, 3-11-69, Cl. 128-130.

Davis Industrial Equipment Company Limited: *See—*
Davis, Maurice, 3,458,978.
Davis, Maurice, 3,458,979.

Davis Industries, Inc.: *See—*
Davis, Renny Rudolph, 3,435,679.

Davis, Jack W., to United Aircraft Corporation. Contoured glow discharge cathode producing focused electron beams. 3,430,091, 2-25-69, Cl. 313-210.

Davis, Jack W.; and Ferreira, Fernand J., to United Aircraft Corporation. Device for moving a beam of charged particles. 3,466,487, 9-9-69, Cl. 313-146.

Davis, James B., to Monsanto Company. Imines containing a polyalkenylsuccinic anhydride substituent. 3,455,831, 7-15-69, Cl. 252-51.5

Davis, James B., to Monsanto Company. Schiff bases. 3,455,832, 7-15-69, Cl. 252-51.5

Davis, James B. Fixed dorsal electrode system for electrocardiography. 3,476,104, 11-4-69, Cl. 128-2.06

Davis, James H.; Dobie, John D.; and Flockhart, Maxwell G., to Graig & Seeley, Limited. Radiant gas burner. 3,437,415, 4-8-69, Cl. 431-328.

Davis, Jane Betts: *See—*
Goldfarb, Adolph E.; and Davis, Jane Betts,3,465,325.

Davis, Jerry E., to Continental Carbon Company. Feedstock control system for carbon black reactors. 3,467,502, 9-16-69, Cl. 23-259.5

Davis, Jerry E.: *See—*
Weiser, Herman J., Jr.; and Davis, Jerry E.,3,486,299.

Davis, John A., Jr., to Marathon Oil Company. Method of increasing injectivity of fluids into formations. 3,460,622, 8-12-69, Cl. 166-9.

Davis, John A., Jr., to Marathon Oil Company. Method of designing a soluble oil slug for an oil recovery process. 3,476,184, 11-4-69, Cl. 166-273.

Davis, John B.; and Yarbrough, Henry F., to Mobil Oil Corporation. Geochemical exploration. 3,457,044, 7-22-69, Cl. 23-230.

Davis, John H., to Bell Telephone Laboratories, Incorporated. Digital clamping of pulse code modulated television signals. 3,476,875, 11-4-69, Cl. 178-7.1

Davis, John H., to Esso Research and Engineering Company. Purification of aromatic hydrocarbons. 3,485,884, 12-23-69, Cl. 260-674.

Davis, John H.; and Coney, Charles H., to Eastman Kodak Company. Solvent resistant cross-linked polymers derived from cellulose esters. 3,475,356, 10-28-69, Cl. 260-13.

Davis, John K.; Fernald, Henry G.; and Rayner, Arline W., to American Optical Company. Ophthalmic lens series. 3,434,781, 3-25-69, Cl. 351-159.

Davis, John R.: *See—*
Woodard, Toma A.; Davis, John R.; and Gordon, Edward,3,486,011.

Davis, John S.: *See—*
Wells, Paul E.; and Davis, John S.,3,436,813.

Davis, John V. Harvester apparatus. 3,485,026, 12-23-69, Cl. 56-328.

Davis, John Walter, to Dunlop Company Limited, The. Vehicle antiskid braking systems. 3,467,442, 9-16-69, Cl. 303-21.

Davis, John Walter, to Dunlop Company Limited, The. Rotary inertia vehicle anti-skid braking systems. 3,470,746, 10-7-69, Cl. 73-514.

Davis, John W.; and Hill, Olen E., to United States of America, National Aeronautics and Space Administration. Burst diaphragm flow initiator. 3,469,734, 9-30-69, Cl. 220-89.

Davis, Joseph R., Jr.; and Tice, John D., to Sun Oil Company. CS_2 Sulfiding of catalysts. 3,481,862, 12-2-69, Cl. 208-143.

Davis, Kenneth E.: *See—*
McMaster, Arnold L.; and Davis, Kenneth E.,3,440,270.

Davis, Kenneth G., to Mobil Oil Corporation. Coating compositions comprising dispersion grade vinyl resin, carboxyl containing acrylic resin and epoxidized novolac resin for adherently coating metal. 3,466,347, 9-9-69, Cl. 260-837.

Davis, Kenneth J., to National Broach & Machine Company. Gear grinding machine. 3,440,769, 4-29-69, Cl. 51-95.

Davis, Kent L.: *See—*
Davis, Steven S.; Davis, Kent L.; and Brozovich, John C.,3,473,669.

Davis, Lewis K.; and Obadal, Richard D., to Deere & Company. Vehicle accessory box and detachable cover plate. 3,464,717, 9-2-69, Cl. 280-164.

Davis, Lincoln K., to Foxboro Company, The. Box pen inking system. 3,438,058, 4-8-69, Cl. 346-140.

Davis, Lionel A. Telephone handset support. 3,466,406, 9-9-69, Cl. 179-157.

Davis, Louis K., to General Electric Company. Angular stabilization device. 3,423,613, 1-21-69, Cl. 310-93.

Davis, Luther, Jr., to Raytheon Company. Ultrasonic optical modulator for time compression of chirp signals. 3,483,387, 12-9-69, Cl. 250-216.

Davis, Mack C. Combined floor wiper and scourer apparatus. 3,484,888, 12-23-69, Cl. 15-118.

Davis, Marion H., to V-Plex Clutch Corporation. Vehicle control apparatus. 3,448,818, 6-10-69, Cl. 180-6.66

Davis, Martin A., to American Home Products Corporation. Dibenzocycloheptene-5-hydroxamic acid and ether and carbonyl derivatives thereof. 3,475,485, 10-28-69, Cl. 260-500.5

Davis, Martin A.; and Campbell, David J., to American Home Products Corporation. Dibenzocyclohepten-5-ylidene thiazolidinones. 3,436,397, 4-1-69, Cl. 260-306.7

Davis, Martin A.; and Campbell, David J., to American Home Products Corporation. Benzhydrylidene thiazolidinones. 3,436,398, 4-1-69, Cl. 260-306.7

Davis, Martin A.; and Dobson, Thomas A., to American Home Products Corporation. Carbamates and carvanilates of 11-hydroxy-10,5(epoxymethano)dibenzocyclohepten-13-one. 3,462,457, 8-19-69, Cl. 260-343.2

Davis, Martin A.; and Dobson, Thomas A., to American Home Products Corporation. 10-Hydroxy-10,5-(iminomethano)-5H-dibenzo[a,d] cyclopheptene-11,13(10-H)diones and intermediates thereto. 3,487,075, 12-30-69, Cl. 260-239.3

Davis, Martin A.: *See—*
Dobson, Thomas A.; and Davis, Martin A.,3,426,015.
Dobson, Thomas A.; and Davis, Martin A.,3,458,518.

Davis, Maurice C.; and Wood, Palmer R., to Garrett Corporation, The. Centrifugal type speed governor with electromagnetic set point adjustment. 3,439,694, 4-22-69, Cl. 137-53.
Davis, Maurice, to Davis Industrial Equipment Company Limited. Non-planar filter and supporting means. 3,458,978, 8-5-69, Cl. 55-499.
Davis, Maurice, to Davis Industrial Equipment Company Limited. Filters. 3,458,979, 8-5-69, Cl. 55-499.
Davis, Michael; Parnell, Edgar William; and Sharp, Brian William, to May & Baker Limited. Methyl and ethyl 6-and 7-substituted 4-hydroxy- quinoline-3-carboxylates useful as coccidiostats. 3,485,845, 12-23-69, Cl. 260-287.
Davis, Morton G.: *See—*
Spofford, Walter R.; and Davis, Morton G.,3,436,725.
Davis, Noah S., to North American Rockwell Corporation. Combined waste treatment and cementmaking method and means. 3,442,498, 5-6-69, Cl. 263-53.
Davis, Noah S., to North American Rockwell Corporation. Method of making fiber-reinforced structures. 3,454,691, 7-8-69, Cl. 264-108.
Davis, Noah S.; and Foust, Oren J., to North American Rockwell Corporation. Flocculation of suspensions. 3,431,200, 3-4-69, Cl. 210-10.
Davis, Noah S.; and Foust, Oren J., to North American Rockwell Corporation. Waste treatment process with recycling flocculating agents. 3,440,166, 4-22-69, Cl. 210-8.
Davis, Noah S.; Foust, Oren J.; and Withers, Thomas W., to North American Rockwell Corporation. Waste treatment process with recycling of lime. 3,440,165, 4-22-69, Cl. 210-4.
Davis, Noel, to Integrated Development and Manufacturing Co. Environmental growth chamber construction. 3,434,530, 3-25-69, Cl. 165-60.
Davis, Noel, to Integrated Development and Manufacturing Co. Environmental growth chamber. 3,447,595, 6-3-69, Cl. 165-21.
Davis, Norman E., to Mitchell, John E., Company. Vacuum cleaning system. 3,425,192, 2-4-69, Cl. 55-345.
Davis, Paul K., to First Western Bank and Trust Company, mesne. Strip joining apparatus and method. 3,458,103, 7-29-69, Cl. 228-5.
Davis, Paul, to Sweetheart Plastics, Inc. Nestable containers. 3,484,018, 12-16-69, Cl. 220-97.
Davis, Paul; and McDonald, Joseph N., to Sweetheart Plastics, Inc. Disposable plastic cup with stiff gripping section. 3,437,253, 4-8-69, Cl. 229-1.5
Davis, Paul: *See—*
Sass, Samuel; Witten, Benjamin; and Davis, Paul,3,441,955.
Davis, Pauls; and Vogt, Herwart C., to Wyandotte Chemicals Corporation. Preparation of trichlorolactic acid. 3,456,005, 7-15-69, Cl. 260-535.
Davis, Pauls; and Vogt, Herwart C., to Wyandotte Chemicals Corporation. Halogen containing ether epoxides. 3,466,305, 9-9-69, Cl. 260-348.
Davis, Pauls; and Vogt, Herwart C., to Wyandotte Chemicals Corporation. Homopolymerization of poly-halogenous alkylene oxides. 3,478,110, 11-11-69, Cl. 260-615.
Tull, Roger J.; Weinstock, Leonard M.; and Davis, Paul,3,484,452.
Davis, Philip E., Jr. Packer tool setting and hold-down arrangement. 3,428,123, 2-18-69, Cl. 166-120.
Davis, Ralph A., to Dow Chemical Company, The. Fire-retardancy of lignocellulosic materials by phosphorylating chlorinated or brominated lignocellulosics. 3,459,588, 8-5-69, Cl. 117-118.
Davis, Ralph A.; and Larsen, Eric R., to Dow Chemical Company, The. Michaelis-arbuzov reaction. 3,483,279, 12-9-69, Cl. 260-969.
Davis, Ralph C.: *See—*
Hunsaker, Oral K.; Shue, Bruce R.; and Davis, Ralph C.,3,463,675.
Davis, Ralph D.; and Polley, John E. Roller mount for ladders. 3,446,309, 5-27-69, Cl. 182-108.
Davis, Renny Rudolph, to Davis Industries, Inc. Conversion unit for converting mechanical drive water meters to magnetic drive. 3,435,679, 4-1-69, Cl. 73-258.
Davis, Reuel L., Jr. Axially randomly wound coils. 3,425,014, 1-28-69, Cl. 336-96.
Davis, Rhodes W.: *See—*
Patterson, James MacDowell, Jr.; and Davis, Rhodes W.,3,421,436.
Davis, Richard G.: *See—*
Siera, Mark M.; and Davis, Richard G.,3,454,727.
Davis, Robert B.: *See—*
Jordan, Robert J., 3,447,014.
Davis, Robert B.: *See—*
Jordan, Robert J.; Davis, Robert B.; and Phillips, Ronald N.,3,435,656.
Davis, Robert H.: *See—*
Armstrong, Eldon L.; and Davis, Robert H.,3,432,434.
Davis, Robert H., to Mobil Oil Corporation. Triethanolamine salts of mono- and di- nonyl phenol (ethoxylate) phosphate acid esters. 3,422,166, 1-14-69, Cl. 260-924.
Davis, Robert H. Power-driven crimping tool. 3,469,434, 9-30-69, Cl. 72-452.
Davis, Robert J. Removable liner for purses or the like. 3,451,454, 6-24-69, Cl. 150-29.
Davis, Robert L.: *See—*
MacAfee, James E.; Davis, Robert L.; and Hentschel, Gerald P.,3,428,034.
Davis, Robert Nelson; and Robinson, Allan Hoben, to Alcan Research and Development, Limited. Device for dissipating elastic strain energy. 3,485,078, 12-23-69, Cl. 72-290.
Davis, Ronald C. Flight recorder calibrator. 3,459,031, 8-5-69, Cl. 73-1.
Davis, Ronald N., to Columbia Broadcasting System, Inc. Apparatus for duplicating reelable film. 3,479,120, 11-18-69, Cl. 355-85.
Davis, Rooney W., to ACF Industries, Incorporated. Method of and lever pin assembly in pump. 3,483,826, 12-16-69, Cl. 103-150.
Davis, Roy Forrest, Jr. Check valve. 3,444,887, 5-20-69, Cl. 137-541.
Davis, Roy Forrest, Jr., to Western Irrigation Valve Corporation. High pressure relief valve. 3,447,565, 6-3-69, Cl. 137-541.
Davis, Russell S.; and Wescott, Alexander J., to I-T-E Imperial Corporation, mesne. Adjustable length straight section for bus duct. 3,462,541, 8-19-69, Cl. 174-88.
Davis, Samuel B.: *See—*
Conners, John P.; and Davis, Samuel B.,3,430,824.
Davis, Samuel J.: *See—*
Oatfield, John C.; Davis, Samuel J.; and Couick, John W.,3,457,602.
Davis, Sidney, to Vernitron Corporation. Position indicator. 3,437,956, 4-8-69, Cl. 331-172.
Davis, Sidney, to Vernitron Corporation. Increased torque capacity synchro apparatus. 3,474,312, 10-21-69, Cl. 318-18.
Davis, Stanley M., to American Cyanamid Company. Battery cell depolarizers. 3,438,813, 4-15-69, Cl. 136-83.
Davis, Stanley M.; Voorhies, John D.; and Schurdak, Edward J., to American Cyanamid Company. Rechargeable dry cells and method of using same. 3,468,708, 9-23-69, Cl. 136-6.
Davis, Stanley Myron: *See—*
Bennett, Robert Putnam; and Davis, Stanley Myron,3,467,688.
Davis, Stanley Myron; Kraebel, Charlotte Marie; and Parent, Richard Alfred, to American Cyanamid Company. Uncharged dry cells with a biurea depolarizer. 3,481,792, 12-2-69, Cl. 136-137.
Davis, Steven S. Aligning means for endless web filter. 3,429,447, 2-25-69, Cl. 210-401.
Davis, Steven S.; Davis, Kent L.; and Brozovich, John C., to Envirotech Corporation. Disc sector for rotary disc filter. 3,473,669, 10-21-69, Cl. 210-486.
Davis, Steven S.; and Slajchert, George, to Eimco Corporation, The. Horizontal vacuum filter. 3,426,908, 2-11-69, Cl. 210-401.
Davis, Troy B., 50% to Davis, Harold B. Flying saucer. 3,442,469, 5-6-69, Cl. 244-23.
Davis, Vincent C., to Chevron Research Company. Automatic freezing point indicator and method. 3,457,771, 7-29-69, Cl. 73-17.
Davis, Vincent C., to Chevron Research Company. Automatic freezing point indicator. 3,486,363, 12-30-69, Cl. 73-17.
Davis, Walter M., to Monsanto Company. Process for continuous liquid-solid contacting. 3,450,526, 6-17-69, Cl. 75-103.
Davis, Walter M., to Monsanto Company. Granulation of fine particles. 3,473,740, 10-21-69, Cl. 241-3.
Davis, Walter. Vertical bumper guard. 3,438,667, 4-15-69, Cl. 293-64.
Davis, Ward Benjamin, to Aseptic Thermo Indicator Company. Fruit ripeness telltale. 3,420,635, 1-7-69, Cl. 23-253.
Davis, Warren C., to Raytheon Company. Cathode ray tube having multi-segment target extending through envelope wall. 3,456,145, 7-15-69, Cl. 313-73.
Davis, Warren L.: *See—*
Wooton, Thomas C.; Mangold, William F.; and Davis, Warren L.,3,442,788.
Davis, Wayne T., to Ethyl Corporation. Process for producing trialkyl aluminum and aluminum trialkoxides. 3,487,097, 12-30-69, Cl. 260-448.
Davis, Wilbern F.: *See—*
Root, Lawrence D.; and Davis, Wilbern F.,3,442,507.
Davis, Wilbur A. End wrench with selectively usable jaw face shim means. 3,425,302, 2-4-69, Cl. 81-185.
Davis, William C.: *See—*
Boczar, William J.; and Davis, William C.,3,434,018.
Davis, William E. Basketball foul and time-out indicator. 3,444,548, 5-13-69, Cl. 340-323.
Davis, William J., to Polymer Corporation, The. Method of making a porous polyamide fabric. 3,427,179, 2-11-69, Cl. 117-11.
Davis, William J., to Polymer Corporation, The. Method of making pressure-sensitive liquid- dispensing device from polyamides and article therefrom. 3,427,277, 2-11-69, Cl. 260-33.4
Davis, William J., to Radio Corporation of America. Vector display system. 3,430,207, 2-25-69, Cl. 340-172.5
Davis, William J.; and Church, Richard O., to Little, Arthur D., Inc. Capillary devices. 3,474,703, 10-28-69, Cl. 87-1.
Davis, William John Nankivell, to Zinc Corporation Limited, The. Method and apparatus for froth flotation. 3,446,353, 5-27-69, Cl. 209-164.

Davis, William M., Jr., to Honeywell Inc. Transistor amplifier apparatus having common mode rejection. 3,464,021, 8-26-69, Cl. 330-30.
Davis, William R.: *See—*
Bacon, Robert E.; and Davis, William R.,3,443,357.
King, James Frank, Jr.; and Davis, William R.,3,454,484.
Martel, Richard A.; Davis, William R.; and Sutton, Carl E.,3,478,217.
Davis, William R.; and Macchi, Anselmo J., to Stanley Works, The. Strap tie-down system and hook. 3,430,912, 3-4-69, Cl. 248-361.
Davis, William W.; and Pohm, Arthur V., to Sperry Rand Corporation. Parametric amplifiers cascaded in a transmission line arrangement. 3,433,975, 3-18-69, Cl. 307-88.
Davis-Miller Corporation: *See—*
Miller, Robert F., 3,447,352.
Davison, Bartholomew J.; and Peracchio, Aldo A., to United Aircraft Corporation. Swirl input fluid amplifier. 3,476,131, 11-4-69, Cl. 137-81.5
Davison, Joseph W., to Phillips Petroleum Company. Polymerization and recovery of olefin polymers. 3,436,380, 4-1-69, Cl. 260-80.78
Davison, Joseph W., to Phillips Petroleum Company. Hydrocarbon conversion. 3,442,970, 5-6-69, Cl. 260-683.15
Davison, Richard H.; and Dietz, Milton S., to Polaroid Corporation. Automatic exposure control system. 3,464,332, 9-2-69, Cl. 95-10.
Davison, Richard R.; and Hood, Donald W., to United States of America, Interior. Vapor compression solvent extractor desalination. 3,424,675, 1-28-69, Cl. 210-22.
Davison, Thomas M., to Dresser Systems, Inc. Master automatic gain control of seismic amplifiers. 3,441,867, 4-29-69, Cl. 330-52.
Davison, Verle L.; Pryde, Everett H.; and Moore, Danny J., to United States of America, Agriculture. Thermally stable stationary phases for temperature programmed gas chromatography. 3,485,028, 12-23-69, Cl. 55-386.
Davol Inc.: *See—*
Gagne, Joseph L., 3,460,540.
Smith, William L., 3,426,759.
Davol Rubber Company: *See—*
Swanson, Reinold E., 3,429,549.
Davoll, John, to Parke, Davis & Company. Certain N-p-[(2,4-diamino-6-quinazolinyl)- methyl]benzoylamino acids. 3,471,498, 10-7-69, Cl. 260-256.4
Davoll, John, to Parke, Davis & Company. Novel quinazolinyl methylaminobenzoylamino acid compounds. 3,472,851, 10-14-69, Cl. 260-256.4
Davoll, John. Heterocyclic compounds and means for producing the same. 3,485,842, 12-23-69, Cl. 260-256.4
Davy and United Engineering Company Limited: *See—*
Beard, Jack H.; Hoole, Harold; and Hayes, Allan, 3,438,996.
Bond, Harry Laurence Fred, 3,445,100.
Dowsing, John; Briggs, Peter Richard Ashworth; and Sturdy, Clifford, 3,464,245.
Forster, Graham Arthur; and Collinson, Christopher David, 3,435,650.
Harrison, James Arthur; and Quartermain, Brian, 3,445,640.
Hobson, David; and Hattersley, Derek, 3,469,483.
Howard, David Robert, 3,420,447.
Howard, David Robert, 3,460,365.
Machon, Edward, 3,429,455.
Maltby, Jack, 3,461,707.
Manterfield, Ralph, 3,451,532.
Martin, Dennis, 3,422,968.
Moore, John; and Wild, John Thomas Henry, 3,458,070.
Nicholson, George Galloway; Jackman, Ronald; and Stubbins, Derek, 3,421,708.
Ogle, Joseph Eric; and Rickett, Philip Haydn, 3,425,255.
Ogle, Joseph Eric; and Martin, Dennis, 3,438,236.
Ross, Keith, 3,468,155.
Ross, Keith, 3,473,364.
Samuel, Herbert John, 3,478,561.
Stubbins, Derek; and Nunns, Brian, 3,456,775.
Stubbins, Derek, 3,461,767.
Stubbs, Dennis, 3,444,718.
Stubbs, Dennis; Wilson, William Gordon; and Bathory, Bela Istvan, 3,476,276.
Stubbs, Dennis, 3,479,854.
Stubbs, Dennis; Swift, Eric Owen; and Carroll, Eric, 3,486,360.
Davy and United Instruments Limited: *See—*
Alsop, Charles Francis, 3,478,551.
Davy, John R.; Ballantine, John M.; and Allan, William B. Photomultiplier having wall coating of election emitting material and photoconductive material. 3,432,668, 3-11-69, Cl. 250-207.
Davydov, Alexei Ivanovich: *See—*
Vyaznikov, Alexandr Konstantinovich; Davydov, Alexei Ivanovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; Kohkhlov, Evgeny Ilich; and Charykov, Nikolai Frolovich,3,472,299.
Dawans, Francois; and Teyssie, Philippe, to Institut Francais du Petrole des Carburants et Lubrifiants. Process and catalytic compositions for the polymerization and copolymerization of conjugated dienes and the products thereof. 3,448,095, 6-3-69, Cl. 260-94.3
Dawans, Francois; and Teyssie, Philippe, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process and catalytic compositions for obtaining amorphous 1,2-polybuadiene and the products thereof. 3,451,987, 6-24-69, Cl. 260-94.3
Dawbarn, Henry D., to Thiokol Chemical Corporation, meane. Filament reinforced plastic film. 3,445,319, 5-20-69, Cl. 161-58.
Dawbarn, Ronald; and Haygood, James D., to United States of America, Air Force. Vacuum type all metal connector for tubing. 3,482,860, 12-9-69, Cl. 285-354.
Dawe, Ernest L. Sprocket with replaceable tooth segment. 3,472,090, 10-14-69, Cl. 74-243.
Dawe, John Ernest. Process of preparing a filter medium from moss and its use. 3,428,551, 2-18-69, Cl. 208-188.
Dawes, Bailey P. Rotary pumps. 3,485,179, 12-23-69, Cl. 103-136.
Dawes, Christopher J., to British Welding Research Association. Parallel-gap welding electrode with interposed heat sinks. 3,478,190, 11-11-69, Cl. 219-86.
Dawes, Frederick Alan, to Bennett Tool Limited. Apparatus for use in feeding wire or strip material. 3,452,911, 7-1-69, Cl. 226-156.
Dawes, Frederick Alan, to Bennett Tools Limited. Spring coiling machines. 3,456,470, 7-22-69, Cl. 72-135.
Dawidowicz, Jan, to Eversharp, Inc. Guard stops for ribbon-type razors. 3,453,733, 7-8-69, Cl. 30-346.5
Dawidowicz, Jan; Ferraro, Frank A.; and Kuhnl, Leopold K., to Eversharp, Inc. Sectional captype double edge safety razor unit. 3,466,746, 9-16-69, Cl. 30-60.5
Dawidowicz, Jan; Kuhnl, Leopold K.; Bombero, Thomas F.; and Ferraro, Frank A., to Eversharp, Inc. Safety razor with ribbon-type blade. 3,456,342, 7-22-69, Cl. 30-40.1
Dawkins, Bluford A.: *See—*
Weasells, Russell I.; and Dawkins, Bluford A.,3,427,975.
Dawn, Robert C.; and Nichols, Newlin S., to Wyandotte Chemicals Corporation. Aqueous dispersions of polyurethane polymers. 3,437,624, 4-8-69, Cl. 260-29.2
Dawnay, John Christian George; and Faulkner, Eric Andrew. Cascode-connected transistor amplifiers. 3,451,002, 6-17-69, Cl. 330-20.
Dawson & Co., Inc.: *See—*
Butterworth, Lyle J.; Hiegel, Larry D.; and Scheffer, Donald G., 3,447,176.
Dawson, Alexander, Inc.: *See—*
Tibbals, Edward Camp, Jr., 3,436,050.
Tibbals, Edward Camp, Jr., 3,455,054.
Dawson and Co., Inc.: *See—*
Butterworth, Lyle J., 3,449,779.
Dawson, Charles A., to Lockheed Aircraft Corporation. Double-land end mills. 3,456,316, 7-22-69, Cl. 29-103.
Dawson, Chester H., to Remington Arms Company, Inc. Induction method of armoring metal articles. 3,449,146, 6-10-69, Cl. 117-22.
Dawson, Douglas Martin, to Russell, Burdsall & Ward Bolt and Nut Company. Machine for separating molded plastic articles from gates and runners of molded trees. 3,446,407, 5-27-69, Cl. 225-97.
Dawson, Edward C., to United States of America, Air Force. Spectrum analyzer. 3,431,405, 3-4-69, Cl. 235-150.5
Dawson, Edward S., to Surf Skimmer Ltd. Self-propelled water skimmers. 3,463,116, 8-26-69, Cl. 115-70.
Dawson, Fred: *See—*
Perrins, Lyle Eugene; Dawson, Fred; and White, Henry George,3,468,828.
Dawson, George Alexander, to Du Pont de Nemours, E. I., and Company. Polymeric color formers and process of preparing same. 3,444,110, 5-13-69, Cl. 260-8.
Dawson, Gordon Bertram. Means for conveying coal in mines. 3,433,348, 3-18-69, Cl. 198-89.
Dawson, Gordon Bertram, to Dowty Meco Limited. Armoured flexible conveyors. 3,455,432, 7-15469, Cl. 198-9.
Dawson, Henry G.: *See—*
Glymph, Eakin M.; and Dawson, Henry G.,3,445,414.
Dawson, James A., to McDonnell Douglas Corporation. Press-fit connection for fluid couplings and structures. 3,466,066, 9-9-69, Cl. 285-39.
Dawson, John R.; and Huber, Roy L., to Ford Motor Company. Concealed vehicle running light assembly. 3,487,206, 12-30-69, Cl. 240-8.3
Dawson, John W. Stretch forming. 3,425,258, 2-4-69, Cl. 72-303.
Dawson, John W., to Pfund, Charles E. Automobile signal. 3,434,108, 3-18-69, Cl. 340-74.
Dawson, Norman D., to Robins, A. H., Company, Incorporated. 1-Aryl-3(N-lower alkylamino)pyrrolidines. 3,433,801, 3-18-69, Cl. 260-326.3
Dawson, Norman D.; and Cale, Albert D., Jr., to Robins, A. H., Company, Incorporated. 3-(N-lower-alkylanilino)pyrrolidines. 3,433,802, 3-18-69, Cl. 260-326.5
Dawson, Peter H. T., to Singer-Cobble Limited. Application of treatment media to elongate materials. 3,434,311, 3-25-69, Cl. 68-20.
Dawson, Robert D., to Dietz, R. E., Company. Warning lens having concentric lenticular elements. 3,425,056, 1-28-69, Cl. 340-383.

Dawson, Robert E., to Dietz, R. E., Company. Vehicular signal lens having concentric annular rings. 3,427,610, 2-11-69, Cl. 340-383.
Dawson, Robert F. Road vehicle mounted rack for stowing a motorcycle or the like. 3,458,073, 7-29-69, Cl. 214-450.
Dawson, Robert H.; Ditrick, Norman H.; and Mitchell, Muni M., to RCA Corporation. Method of faricating insulated-gate field-effect devices. 3,455,020, 7-15-69, Cl. 29-571.
Dawson, Robert J., to ESB Incorporated, mesne. Battery having a positive electrode in which the principal active material is isolated from the electrolyte by a secondary active material. 3,484,295, 12-16-69, Cl. 136-100.
Dawson, Robert J.: *See—*
Krebs, Luis Soto; and Dawson, Robert J.,3,476,610.
Dawson, Stuart Bruce, to Girling Limited. Valves for fluid operated motors. 3,427,929, 2-18-69, Cl. 91-347.
Dawson, Thomas P.; and Williamson, Charles E., to United States of America, Army. Phosphonate esters of alkyl acetoacetates. 3,450,801, 6-17-69, Cl. 260-941.
Day & Zimmermann, Inc.: *See—*
Chamlee, William D., 3,426,946.
Mattia, Manlio M.; and Weiss, Bernard M., 3,448,042.
Mattia, Manlio M., 3,455,089.
Day, Donald L.: *See—*
Martinez, Arfilio J., 3,440,317.
Day, Dwayne L.; and Haskell, Albert A., Jr., to Titanium Metals Corporation of America. Processing titanium and titanium alloy products. 3,481,799, 12-2-69, Cl. 148-11.5
Day, Frank; and Froberg, Manus L., to Owens-Corning Fiberglas Corporation. Wall construction for melting tanks. 3,437,327, 4-8-69, Cl. 263-44.
Day, George Gerald, to Chlormetals Incorporated. Fused bath electrolytic cells. 3,468,786, 9-23-69, Cl. 204-243.
Day, Harold R. Sheet material separation device. 3,464,621, 9-2-69, Cl. 229-85.
Day, Harry E. Mounting and actuating means for control devices. 3,433,907, 3-18-69, Cl. 200-47.
Day, Herbert T., to Johnson & Day Golf Enterprises. Golf practice device. 3,420,528, 1-7-69, Cl. 273-176.
Day, Howard E., to Calumet & Hecla Corporation, mesne. Method of making cuprous oxide. 3,466,143, 9-9-69, Cl. 23-147.
Day, Ian H., to Polymark Limited. Method and apparatus for testing the visual properties of pigmented liquids. 3,464,772, 9-2-69, Cl. 356-208.
Day, James F., to Bell Telephone Laboratories, Incorporated. Arrangement for transferring between program sequences in a data processor. 3,480,917, 11-25-69, Cl. 340-172.5
Day, Jeptha V., to Kaiser Aluminum & Chemical Corporation. Flash cooling of liquor during the continuous precipitation of alumina hydrate from Bayer process liquor. 3,486,850, 12-30-69, Cl. 23-143.
Day, Joe L.; and Lippitt, Maxwell W., Jr., to United States of America, National Aeronautics and Space Administration. Electrode for biological recording. 3,420,223, 1-7-69, Cl. 128-2.06
Day, John, to Monsanto Graphic Systems, Inc. Slit scanned electrostatic printing. 3,484,022, 12-16-69, Cl. 222-76.
Day, Kelly B., Jr.: *See—*
Barbeau, Raymond A.; Day, Kelly B., Jr.; and Weidenhammer, James A.,3,420,424.
Day, Lawrence; Dobrick, Joseph; and Kay, Arthur, to Spitfire Tool & Machine Co., Inc. Reciprocating lapping machine for railroad car air brakes. 3,434,243, 3-25-69, Cl. 51-59.
Day, Richard D.; and Neitzel, Joseph C., to Murray Company. Tramper foot with resilient edge structure. 3,437,033, 4-8-69, Cl. 100-215.
Day, Ronald H., to Industrial Covers, Inc. Extensible escape slide. 3,463,266, 8-26-69, Cl. 182-48.
Day, Ronald H., to Industrial Covers, Inc. Chemical light indicator for emergency illumination. 3,463,915, 8-26-69, Cl. 240-2.25
Day, Ronald L.: *See—*
Paulsen, Roy; and Day, Ronald L.,3,431,007.
Day, William B.: *See—*
Brediger, James L.; Day, William B.; Lavedan, Louis J., Jr.; and Parks, Joe K.,3,431,515.
Day, William F. Apparatus for playing a board game involving political strategy. 3,473,809, 10-21-69, Cl. 273-134.
Day, William M., to Westinghouse Electric Corporation. Acoustic device for receiving a small portable radio or similar article. 3,482,063, 12-2-69, Cl. 179-146.
Day, Willis E.; and Phillips, Donald E., to Collins Radio Company. Signal modulated self-regulated switching voltage regulator-amplifier. 3,426,266, 2-4-69, Cl. 323-22.
Dayan, Victor H.: *See—*
Rommel, Marjorie A.; and Dayan, Victor H.,3,472,629.
Dayco Corporation: *See—*
Beindorf, Lucian J., 3,478,609.
Brooks, Alden W.; Bishop, Clinton L.; Thomas, James R.; and Richard, Kenneth D., 3,464,875.
Edwards, Charles E., 3,465,508.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., 3,425,199.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., 3,425,200.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., 3,440,808.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., 3,485,022.
Freelander, Abraham L.; Matthews, Robert E.; and Garrett Wayne C., 3,444,675.
Freldlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., 3,449,894.
Howell, Emory L., 3,446,253.
Osborn, Carroll H., 3,445,308.
Osborn, Carroll H.; and Cudd, Wilson E., 3,478,770.
Richmond, Kenneth D., 3,473,989.
Smith, Howard S.; Trogdon, Thomas; and Holt, Thomas C., 3,457,201.
Trogdon, Thomas; and Fultz, Russell E., 3,423,490.
Waugh, Dale L.; Brooks, Alden W.; Jensen, Howard J.; and Richmond, Kenneth D., 3,478,613.
Dayigh, Adnan A. R.: *See—*
Nashu, Abdul-Munim; Reymore, Harold E., Jr.; and Dayigh, Adnan A. R.,3,437,607.
Daymon, Robert C. Discharge conveyor drive and controls for sod rolling machine. 3,485,304, 12-23-69, Cl. 172-19.
Dayson, Arthur, to Curtis Manufacturing Company. Lift mechanism. 3,477,343, 11-11-69, Cl. 91-4.
Daystar Corporation: *See—*
Eckardt, Fred H., 3,478,843.
Dayton, Cleveland A. Measuring and dispensing device having a plurality of rotary trap chambers. 3,450,310, 6-17-69, Cl. 222-221.
Dayton Fly Ash Co., Inc.: *See—*
Heavilon, Jerry L.; Jones, Dennis A.; and Thomas, Barton A., 3,421,587.
Dayton, Gertrude E.; and Dayton, Wayne B. Inflatable garment form. 3,478,941, 11-18-69, Cl. 223-67.
Dayton, Glenn O., Jr.: *See—*
Conrad, Tom J.; Dayton, Glenn O., Jr.; and Arlin, Max,3,431,046.
Dayton Malleable Iron Company, The: *See—*
Hunsaker, Oral K.; Shue, Bruce R.; and Davis, Ralph C., 3,463,675.
Dayton Steel Foundry Company, The: *See—*
Walther, William D., 3,421,797.
Walther, William D., 3,482,655.
Walther, William Dean, 3,442,533.
Walther, William Dean, 3,485,513.
Dayton Sure-Grip and Shore Company, The: *See—*
Smith, Lloyd B.,; Guinn, John T., Jr.; and Cox, Allan, 3,477,111.
Dayton, Wayne B.: *See—*
Dayton, Gertrude E.; and Dayton, Wayne B.,3,478,941.
Daytona Sports Company: *See—*
Mead, Peter, 3,444,288.
Dazor Manufacturing Corporation: *See—*
Mehr, Jacob A., 3,480,304.
Dazzi, Joachim; Schwarzenbach, Kurt; and Keller, Ernst, to Geigy Chemical Corporation. Mixtures of azines and polyphenyl ethers as functional fluids. 3,424,683, 1-28-69, Cl. 252-51.5
D.B.A.: *See—*
Dugay, Pierre Henri, 3,472,262.
Dugay, Pierre Henri, 3,473,571.
DCA Corporation: *See—*
Wenger, Harvey M., 3,460,768.
DCA Food Industries Inc.: *See—*
Fowler, Roscoe T.; and Kaufman, Harold B., Jr., 3,450,070.
Fries, Edward W., 3,433,150.
Gebhardt, Jerome G., 3,455,254.
Goodman, Abraham H.; Pettinato, Edward F.; Kroll, Alfred; and Lipka, David H., 3,475,182.
Kaufman, Harold B., Jr., 3,443,505.
D. C. Transit System, Inc.: *See—*
Sherbert, Thomas L.; and Sherbert, Tillison M., 3,455,597.
D.E.A. Digital Electronic Automation Societa per Azioni: *See—*
Sartorio, Franco, 3,446,539.
De Acetis, William; and Newey, Herbert A., to Shell Oil Company. Certain substituted polymercaptan derivatives of pyridine and benzene. 3,448,112, 6-3-69, Cl. 260-294.8
De Acetis, William; and Smutny, Edgar J., to Shell Oil Company. Polyfunctional epoxides and their polymers. 3,432,465, 3-11-69, Cl. 260-47.
Deacon, Roger Frederick, to Wilkinson Sword Limited, and Uddeholms Aktiebolag. Safety razor blades. 3,425,877, 2-4-69, Cl. 148-12.4
Dead Sea Works Limited: *See—*
Bloch, Moshe Rudolf; Schnerb, Isaac; and Kenat, Joachim, 3,484,198.
Kenat, Joachim, 3,437,444.
Deahl, Thomas J.: *See—*
Crecelius, Robert L.; and Deahl, Thomas J.,3,459,675.

Deakin, Stanley Thomas, to Sealectro Limited. Selector board. 3,423,716, 121-69, Cl. 339-18.
Deakin, Stanley Thomas, to Sealectro Corporation. Sensing devices. 3,437,794, 4-8-69, Cl. 235-61.11
Deakin, Stanley Thomas, to Sealectro Limited. Card sensing device comprising a plurality of grid supported mouldings. 3,452,166, 6-24-69, Cl. 200-46.
Deakin, Stanley Thomas, to Sealectro Limited. Electric boards, plug contacts and system. 3,452,315, 6-24-69, Cl. 339-18.
Deakin, Stanley Thomas, to Sealectro Limited. Electrical plugs. 3,456,160, 7-15-69, Cl. 317-101.
Deakin, Stanley Thomas, to Sealectro Limited. Jack plugs. 3,458,848, 7-29-69, Cl. 339-17.
Deakin, Stanley Thomas, to Sealectro Limited. Electrical plug contacts. 3,465,283, 9-2-69, Cl. 339-150.
Deal, Bruce E., to Fairchild Camera and Instrument Corporation. Method of making stable semiconductor devices. 3,426,422, 2-11-69, Cl. 29-571.
Deal, Kenneth M.: *See*—
Corrigall, James Stephen; Waterman, Raymond R.; and Deal, Kenneth M.,3,424,633.
Deal, Kenneth M.; and Waterman, Raymond R., to Vanderbilt, R. T., Company, Inc. Foamable plastisol composition and method of foaming same. 3,432,449, 3-11-69, Cl. 260-2.5
Deal, Roger L.; and Hansen, Robert W., to Jennings Radio Manufacturing Corporation. Ground-isolated electromagnetically operated vacuum relay. 3,447,107, 5-27-69, Cl. 335-151.
Dean, Albert G., to Budd Company, The. Hinge and door apparatus. 3,456,389, 7-22-69, Cl. 49-253.
Dean, Albert G., to Budd Company, The. Vaned disk element and means to prevent air flow therethrough. 3,472,345, 10-14-69, Cl. 188-264.
Dean, Albert G.; and Freholm, Omar E., to Budd Company, The. Retractable and extensible railway car diaphragm. 3,486,464, 12-30-69, Cl. 105-8.
Dean, Derek John, to Weston Instruments, Inc., mesne. Moving coil electrical instrument having a magnetic shunt movable transversely in a flux leakage path. 3,434,054, 3-18-69, Cl. 324-151.
Dean, Donald Eugene: *See*—
Bouchard, Robert Thomas; Dickstein, Jack; and Dean, Donald Eugene,3,442,844.
Dean, Donald T. Stimulator for vehicle operators. 3,466,644, 9-9-69, Cl. 340-279.
Dean, Duff L., to Triple D Industries, Inc., mesne. Apparatus for testing boat fenders. 3,433,050, 3-18-69, Cl. 73-11.
Dean, Duff L., to Triple D Industries, Inc. Boat fender structures. 3,455,269, 7-15-69, Cl. 114-219.
Dean, Erasmus M., to Bunker-Ramo Corporation, The. Code conversion means. 3,440,646, 4-22-69, Cl. 340-347.
Dean, Hollie Thomas. Anchor bolt shield. 3,430,408, 3-4-69, Cl. 52-699.
Dean, Hollie Thomas. Adjustable leg support. 3,441,974, 5-6-69, Cl. 16-33.
Dean, Jack A.: *See*—
Mayor, Anibal; and Dean, Jack A.,3,459,993.
Dean, Jesse W.; and Silverstein, Louis. Combination book and playhouse. 3,434,233, 3-25-69, Cl. 46-21.
Dean, Lloyd L. Method of transferring and firing visible designs. 3,446,683, 5-27-69, Cl. 156-89.
Dean, Maurice R.; and Trantham, Joseph C., to Phillips Petroleum Company. Protection of well casing from thermal overstressing. 3,456,734, 7-22-69, Cl. 166-302.
Dean, Mills, III; Ficken, Norman L., Jr.; and Mossi, Ercole J., to United States of America, Navy. Subminiature pressure transducer. 3,457,536, 7-22-69, Cl. 338-4.
Dean, Raiford P., Jr.; and Kirk, Farlan. Hose reel in container. 3,457,946, 7-29-69, Cl. 137-355.26
Dean, Richard A.; and McCabe, Earl A., Jr., to United States of America, Atomic Energy Commission, mesne. Fuel assembly for a nuclear reactor. 3,432,390, 3-11-69, Cl. 176-78.
Dean, Robert: *See*—
Davis, Frederick George; and Dean, Robert,3,468,349.
Dean, Ronald John, to North American Philips Company, Inc. Methods of manufacturing semiconductor devices. 3,435,514, 4-1-69, Cl. 29-577.
Dean, Russell R. Barbell with eccentrically weighted weights. 3,482,835, 12-9-69, Cl. 272-84.
Dean, Walter B., to Budd Company, The. Quick opening latch mechanism. 3,464,726, 9-2-69, Cl. 292-39.
Dean, Walter B.; and Germer, John A., to United States of America, Army. Apparatus for inducing fatigue cracks in materials. 3,421,365, 1-14-69, Cl. 73-91.
Deane, Martin A., to Hydrasearch Co., Inc. Bleed apparatus for bleeding the brakes of a hybrid hydraulic brake system. 3,425,750, 2-4-69, Cl. 303-6.
Deane, Theodore E.: *See*—
Aldrich, F William; and Deane, Theodore E.,3,434,998.
de Angelis, Sidney M. Alarm device. 3,424,122, 1-28-69, Cl. 116-2.
De Angelo, Charles J., Jr.; and Thibodeau, Raymond J., to Thiokol Chemical Corporation. Process for bonding a polysulfide polymer based sealant to a substrate. 3,457,099, 7-22-69, Cl. 117-75.
De Angelo, Gerald J.: *See*—
Gelzheiser, Francis L.; and De Angelo, Gerald J.,3,480,900.
De Angelo, Gerald J., to Westinghouse Electric Corporation. Circuit interrupter with handle locking means. 3,470,336, 9-30-69, Cl. 200-42.
De Angelo, Michael Anthony; Sagal, Matthew Warren; and Sharp, Donald Jex, to Western Electric Company, Incorporated. Selective chemical deposition of thin-film interconnections and contacts. 3,485,665, 12-23-69, Cl. 117-212.
Deans, David Robert, to Imperial Chemical Industries, Limited. Gas flow programmers. 3,428,290, 2-18-69, Cl. 251-28.
Deans, Harry A.; and Prats, Michael, to Shell Oil Company. Shale oil extraction process. 3,474,863, 10-28-69, Cl. 166-266.
Deans, Howard; and Pace, Vincent, to Kleer-Vu Industries, Inc. Packaging machine. 3,420,035, 1-7-69, Cl. 53-182.
Deans, Jackson, to U.S. Philips Corporation, mesne. Method and apparatus for heat treatment. 3,456,936, 7-22-69, Cl. 263-47.
Dear, Robert E. A.; and Gilbert, Everett E., to Allied Chemical Corporation. Anesthetically active fluorinated methyl ethers. 3,450,773, 6-17-69, Cl. 260-614.
Dear, Robert E. A.; and Gilbert, Everett E., to Allied Chemical Corporation. 1-1-Difluoro-2 difluoromethyl-2-fluoro-4-chloro-3- butyne. 3,459,817, 8-5-69, Cl. 260-653.3
Dear, Robert E. A.; and Gilbert, Everett E., to Allied Chemical Corporation. Process of fumigation with fluorocycloalkene fluoroalkyl ethers. 3,470,302, 9-30-69, Cl. 424-339.
Dear, Robert E. A.; and Gilbert, Everett E., to Allied Chemical Corporation. Cyclopropanecarboxylic acid fluoride as a fumigant. 3,484,528, 12-16-69, Cl. 424-317.
Deardorff, Donald K., to United States of America, Interior. Device for drawing wire which eliminates chatter. 3,431,766, 3-11-69, Cl. 72-285.
Dearman, James R.: *See*—
McKnight, William B.; Dearman, James R.; and Hawkins, Ralph W.,3,481,340.
Dearsley, George, to American Machine & Foundry Company. Cigarette or cigar making machine and method. 3,472,236, 10-14-69, Cl. 131-20.
Dearth, Raymond J., to Amsted Industries Incorporated. Means for controlling casting. 3,425,483, 2-4-69, Cl. 164-155.
Dearth, Raymond J., to Amsted Industries Incorporated. Pressure pouring control arrangement. 3,459,254, 8-5-69, Cl. 164-119.
Deary, Reynaldo M. Air pollution filter apparatus. 3,478,495, 11-18-69, Cl. 55-227.
Deas, Robert W.: *See*—
Kirkendall, Richard D.; Deas, Robert W.; McCall, Nelson H.; and Gay, Herman P.,3,453,882.
Deasy, Peter J., to Bakelite Xylonite Limited. Package. 3,485,345, 12-23-69, Cl. 206-46.
Deasy, Richard E., to Collins Radio Company. Three position RF circuit rotary switch. 3,466,254, 9-9-69, Cl. 200-11.
Death, Frank S.: *See*—
Baker, Allen J.; Death, Frank S.; Myers, Richard C.; and Farnsworth, Walter B.,3,422,206.
Deaton, Homer W.: *See*—
Brucken, Byron L.; and Deaton, Homer W.,3,473,638.
Deaton, Homer W., to General Motors Corporation. Balanced bridge fill system for clothes washer. 3,444,882, 5-20-69, Cl. 137-392.
Deaton, Homer W., to General Motors Corporation. Transistorized electrical control circuit. 3,447,007, 5-27-69, Cl. 310-95.
Deaver, Avery Verne. Submerged cork recovery device. 3,451,076, 6-24-69, Cl. 7-11.
Deaver, Bascom S., Jr.: *See*—
Bol, Morris; Deaver, Bascom S., Jr.; and Fairbank, William M.,3,454,875.
de Bard, Yves: *See*—
Perieres,Rene; and de Bard, Yves,3,421,852.
Debay, Andre Georges; and Thery, Jacques Louis Marie Joseph, to A.B. Astra, mesne. Carbamates and thiocarbamates and the process of preparation and therapeutic applications thereof. 3,428,642, 2-18-69, Cl. 260-295.
de Beaumont, Henry, to Societe pour l'Utilisation Rationnelle des Fluides. Methods of and apparatus for determining propagation characteristics of thermic waves in gases and its application to temperature measurements. 3,426,596, 2-11-69, Cl. 73-339.
Debelius, Joseph Russell, to Kennecott Copper Corporation. Magnetic support arrangement. 3,482,910, 12-9-69, Cl. 353-42.
De Bell & Richardson, Inc.: *See*—
Eakins, William J.; and Humphrey, Richard A., 3,425,454.
De Bella, Gasper V., to Cal-West Electric, Inc. Portable li ver. 3,463,916, 8-26-69, Cl. 240-3.
de Bellini, Paul Charles Maria: *See*—
Fulop, Walter; and de Bellini, Paul Charles Maria,3,454,843.
Debenedetti, Emilio; and Tappi, Vittorio, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa. Process for sizing cellulose-based fibers and yarns and the sized articles. 3,485,663, 12-23-69, Cl. 117-139.5

deBenneville, Peter L.; and Exner, Lawrence J., to Rohm & Haas Company. Fuel compositions. 3,473,901, 10-21-69, Cl. 44-62.
De Berard, Charles J.: *See*—
Isbey, Edward W.; and De Berard, Charles J.,3,453,165.
De Berry, James F., 1/2 interest to Ramsey, O. W. Fishing apparatus including animated lure. 3,465,464, 9-9-69, Cl. 43-19.2
de Biasi, Charles P.: *See*—
Ernst, Walter, 3,450,004.
De Biasse, Richard L. Anti-friction device for heavy machine parts. 3,443,461, 5-13-69, Cl. 82-32.
De Biasse, Richard L. Connecting rods. 3,482,468, 12-9-69, Cl. 74-579.
DeBlauw, Melvin J., to Sperry Rand Corporation. Non-synchronous design for digital device control. 3,460,098, 8-5-69, Cl. 340-172.5
De Bo, Maurice J.: *See*—
Kienzle, John F.; and De Bo, Maurice J.,3,465,838.
de Bock, Evert Jan, to North American Philips Company, Inc. Method for refining glass baths. 3,445,215, 5-20-69, Cl. 65-134.
De Boeck, Willy: *See*—
Brabon, Roger; Beaumariage, Andre; De Boeck, Willy; De Broeyer, Roland; Delplancke, Firmin; and Van Innis, Marcel,3,465,097.
De Boer, Douwe Mindert; Bosman, Willem Freddrik; Croymans, Jacques Johannes Hendrik; and Kreutzelman, Harm, to U.S. Philips Corporation, mesne. Rotary stepping motor with motion damper. 3,453,465, 7-1-69, Cl. 310-49.
de Boer, Geert, to N.V. Machinefabriek Stork-Volma. Installation for preparing pulverulent material from a liquid. 3,460,600, 8-12-69, Cl. 159-4.
De Boer, Hendrik J.; and Gettle, Robert E., to Mosler Safe Company, The. Night depository. 3,465,955, 9-9-69, Cl. 232-44.
De Boer, Henry, to Jacobs, F. L., Co. Ash tray. 3,453,034, 7-1-69, Cl. 312-246.
DeBoer, Henry, to Jacobs, F. L., Co. Ash tray. 3,460,876, 8-12-69, Cl. 312-246.
DeBoer, Henry, to Jacobs, F. L., Co. Ash tray with spring mounted rollers. 3,460,877, 8-12-69, Cl. 312-246.
De Boeuf, James L.; Eftefield, Larry G.; Moser, Raymond L; and Wagner, Ernest W., to Caterpillar Tractor Company. Stabilizing means for earthmoving scrapers. 3,471,951, 10-14-69, Cl. 37-129.
Debolt, William H. Educational testing device. 3,427,731, 2-18-69, Cl. 35-13.
de Bono, Edward Francis. Board game apparatus. 3,455,555, 7-15-69, Cl. 273-131.
De Boo, Emil A.: *See*—
Adair, Frank M.; and De Boo, Emil A.,3,443,001.
Deboo, Gordon J., to United States of America, National Aeronautics and Space Administration. Feedback integrator with grounded capacitor. 3,470,495, 9-30-69, Cl. 331-111.
de Bos, Leo Tan: *See*—
Mullen, James William; and de Bos, Leo Tan,3,433,152.
de Boussois, Glaces: *See*—
Preaux, Lucien; and Bred, Leo, 3,421,968.
De Broeyer, Roland: *See*—
Brabon, Roger; Beaumariage, Andre; De Boeck, Willy; De Broeyer, Roland; Delplancke, Firmin; and Van Innis, Marcel,3,465,097.
De Bruhl, Thurman R. Unloading table for bulk cured tobacco. 3,430,555, 3-4-69, Cl. 100-34.
De Bruin, Calvin N.: *See*—
Hesling, Donald M.; and De Bruin, Calvin N.,3,430,968.
De Bruin, Calvin N., to Sealed Power Corporation. Piston ring expander. 3,427,014, 2-11-69, Cl. 267-1.5
De Bruin, Hendrik, to American Enka Corporation. Tying apparatus for toroidal objects. 3,446,446, 5-27-69, Cl. 242-4.
Debrunner, Jean R. E.: *See*—
Rheingold, Michael; and Debrunner, Jean R. E.,3,470,440.
De Brunner, Ralph E.; and Fincke, John K., to Monsanto Research Corporation. Composition comprising (1) a bis ester of an aromatic tetracarboxylic acid, (2) an inert organic solvent, (3) melamine, and (4) an aromatic diamine. 3,423,366, 1-21-69, Cl. 260-65.
De Brunner, Ralph E.: *See*—
Hathaway, Clayton E., Jr.; De Brunner, Ralph E.; and Butler, John Mann,3,435,004.
De Bruyn, William T.: *See*—
Teggelaar, Claude; and De Bruyn, William T.,3,466,806.
De Bruyne, Gabriel Louis. Drainage system for sinks, lavatories and the like. 3,460,168, 8-12-69, Cl. 4-189.
De Bruyne, Georges Pieter Adolf Mathildis: *See*—
De Raedt, Egide Jacob Hendrik; De Bruyne, Georges Pieter Adolf Mathildis; and Staelens, Sylvere Jules,3,487,172.
De Buck, Jean Jacques Rene Paul; and Trelut, Jean Marie, to International Standard Electric Corporation. Programme switching systems. 3,483,524, 12-9-69, Cl. 340-172.5
de Bucs, Eugen Szabo; Oesterhelt, Gerhard; and Pietsch, Doris, to Siemens Aktiengesellschaft. Fused junction between a germanium-silicon semiconductor member and a junction element and method of producing the same. 3,441,812, 4-29-69, Cl. 317-234.
de Bucs, Eugen Szabo: *See*—
Oesterhelt, Gerhard; de Bucs, Eugen Szabo; Kunert, Alfred; and Rupprecht, Joachim,3,470,033.
DeBuhr, Harold Eugene; and Cofer, Larry Wilson, to Deere & Company. Belt tensioning device. 3,479,894, 11-25-69, Cl. 74-242.11
Debus, Erwin, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Stable dispersions of pyrogenic finely divided oxides suitable for improving the surface characteristics of cellulose hydrate films, and process for their production. 3,455,717, 7-15-69, Cl. 106-287.
Debus, Karl-Jurgen: *See*—
Hoffmann, Meinhard; Adler, Erich; and Debus, Karl-Jurgen,3,466,991.
Debus, Karl; and Heimel, Kurt, to Linotype, G.m.b.H. Assembling mechanism for linecasting machines. 3,480,133, 11-25-69, Cl. 199-18.
DeBusk, Bill J. Tractor handy box. 3,432,052, 3-11-69, Cl. 214-501.
de Calmes, Alain: *See*—
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves,3,444,098.
Bressat, Rene; De Calmes, Alain; Claudel, Bernard; and Trambouze, Yves,3,459,682.
Decar Plastic Corporation: *See*—
Coulter, Erle C., 3,421,275.
De Caro, Charles J.: *See*—
Kvavle, Robert C.; Lewis, William L.; and De Caro, Charles J.,3,469,757.
De Carteret, James Alfred: *See*—
Pratt, Leonard C.; Provos, John R., Jr.; and De Carteret, James Alfred,3,440,465.
de Castelet, Gaetan de Coye, to Regie Nationale des Usines Renault. Method of manufacturing internal combustion engine cylinder heads. 3,448,505, 6-10-69, Cl. 29-156.4
de Castiglione, Roberto: *See*—
Bernardi, Luigi; Bosisio, Germano; de Castiglione, Roberto; and Goffredo, Onofrio,3,472,832.
De Cat, Arthur Henri: *See*—
Monbaliu, Marcel Jacob; De Cat, Arthur Henri; and Van Poucke, Raphael Karel,3,476,763.
Van Poucke, Raphael Karel; De Cat, Arthur Henri; and Monbaliu, Marcel Jacob,3,441,414.
Vanden Eynde, Hector Alfons; Pollet, Robert Joseph; and De Cat, Arthur Henri,3,462,270.
De Cat, Robert: *See*—
Stingele, Alwig; and De Cat, Robert,3,455,348.
Decatur Plastic, Inc.: *See*—
Rahaim, William G., 3,447,673.
Decauville S.A.: *See*—
Telliez-Metadier, Raymond, 3,435,807.
Decaux, Jacques E., to Societe de Construction d'Appareils pour Gaz a l'Eau & Gaz Industriels. Reforming oven for a synthetic gas production plant. 3,476,519, 11-4-69, Cl. 23-277.
de Cazenove, Arnaud. Fruit packing box. 3,473,690, 10-21-69, Cl. 220-22.
Decca Limited: *See*—
Bridges, Donald Edward, 3,465,341.
Gray, Trevor; and Neish, David Anthony, 3,480,954.
Hendley, Dennis Alfred, 3,474,340.
Neish, David Anthony; and Botcherby, Stephen Charles Lauder, 3,442,590.
Neish, David Anthony; and Botcherby, Stephen Charles Lauder, 3,482,436.
O'Brien, William Joseph, 3,458,816.
O'Brien, William Joseph; and Hendley, Dennis Alfred, 3,465,340.
O'Brien, William Joseph, 3,474,448.
Pearson, Michael Geoffrey, 3,422,434.
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry, 3,431,697.
Dechantsreiter, Max J., to Harnischfeger Corporation. Overhead, rigid mast crane for pouring crucibles. 3,478,907, 11-18-69, Cl. 214-313.
Dechelotte, Jean. Measurement conversion device for producing a voltage which is proportional to a displacement and applications of said device. 3,456,132, 7-15-69, Cl. 307-296.
De Cherrie, Theodore H., to Zenith Radio Corporation. Pallets. 3,471,116, 10-7-69, Cl. 248-119.
Dechert, Douglas M., to Standard Oil Company, The (Ohio). Fused-salt battery with self-regulating insulating system. 3,424,622, 1-28-69, Cl. 136-161.
Dechert, Woodrow Wilson, Jr.; and Zimmerman, Richard Le Roy, to AMP Incorporated. Card reader imprinter and/or reader mechanism. 3,447,457, 6-3-69, Cl. 101-269.
De Chistino, Albert J.: *See*—
Carr, Frank B.; Carter, Theodore; Raeburn, Robert A.; and De Chistino, Albert J.,3,455,042.
de Christopher, Eugene, to Blackstone Corporation. Modular block with mating channel structure. 3,449,857, 6-17-69, Cl. 46-25.
Decision Systems Incorporated: *See*—
Liguori, Stephen A., 3,472,587.

Deck, Harold R., to Phillips Petroleum Company. Method of producing carbonyl acrylonitrile molybdenum substituted complexes and product thereof. 3,453,298, 7-1-69, Cl. 260-429.

Deckel, Friedrich, Prazisions Mechanik und Maschinenbau: *See*—
Bschorer, Konrad; Muller, Johann; and Ostler, Josef, 3,465,642.

Deckel, Hans and Deckel, Friedrich W.: *See*—
Lanzenberger, Horst, 3,425,319.

Decker, Alan S.; and Peterson, Hans P., to Dunham-Bush, Inc. Refrigeration system. 3,453,838, 7-8-69, Cl. 62-155.

Decker, Alfred S.; and Wideman, Luther H., to Owens-Illinois, Inc. Electrical printing using plural electrical fields with single powder bed. 3,461,795, 8-19-69, Cl. 101-40.

Decker, Aloysius F., to Sperry Rand Corporation. Write circuit for a phase modulation system. 3,482,228, 12-2-69, Cl. 340-174.1

Decker, Arthur L., to Ethyl Corporation. Plastic conduit joint. 3,466,383, 9-9-69, Cl. 174-84.

Decker, Clarence W.: *See*—
Haulik, Leo J.; Bradbury, James G.; Greer, Leonard S.; and Decker, Clarence W.,3,428,339.

Decker, Dalton L.; Moore, Carl; and Tousignant, William F., to Dow Chemical Company, The. Catalytic synthesis of organic halogen compounds. 3,454,657, 7-8-69, Cl. 260-651.

Decker, David L.; and Hamer, Morgan F., to Collins Radio Company. Cam mounted series resonant trap for tunable RF power amplifier to antenna coupling circuit. 3,435,347, 3-25-69, Cl. 325-452.

Decker, Erhard, to Grace, W. R., & Co. Method of making a battery separator. 3,475,355, 10-28-69, Cl. 260-2.5

Decker, Erwin L., to Fuller Company. Fan flow controller. 3,485,192, 12-23-69, Cl. 110-75.

Decker, Frederick J., to Vis, Russell. Seat with biflex spring cushioning and rebound checking. 3,437,304, 4-8-69, Cl. 248-399.

Decker, Hanns; Stockmann, Helmut; and Hurtmanns, Heinz, to Klockner-Humboldt-Deutz Aktiengesellschaft. Gyratory or cone crusher with a crusher cone including a core and a mantle. 3,477,651, 11-11-69, Cl. 241-293.

Decker, Herbert, to Grundig E.M.V. Electro-Mecanische Versuchsanstalt Inh. Max Grundig. Type head driving means employing flexible belt. 3,420,350, 1-7-69, Cl. 197-16.

Decker, Jacob, to Cincinnati Milling Machine Co., The. Work centering chuck. 3,420,009, 1-7-69, Cl. 51-237.

Decker, Jacob, to Cincinnati Milling Machine Co., The. Grinding machinery for finishing brake discs. 3,434,244, 3-25-69, Cl. 51-106.

Decker, John L.: *See*—
Anderson, Norman J.; and Decker, John L.,3,480,123.

Decker, Lawrence M.: *See*—
Ebright, Robert L.; and Decker, Lawrence M.,3,457,621.

Decker, Richard W., to Westinghouse Electric Corporation. Image storage tube multiplier element. 3,440,470, 4-22-69, Cl. 313-103.

Decker, Robert L.: *See*—
Mc Cleary, Robert E.; and Decker, Robert L.,3,459,620.

Decker, Robert M.; and Klein, Kenneth W. Appratus and method for dissipating heat from a heat source. 3,461,952, 8-19-69, Cl. 165-1.

Decker, Tom W. Teaching apparatus for keyboard instrument. 3,482,480, 12-9-69, Cl. 84-478.

Deckers, Gunther: *See*—
Nolte, Helmuth; Deckers, Gunther; and Rostock, Hans,3,430,565.

Deckert, John H. Apparatus for fastening the joints of railroad rail. 3,420,441, 1-7-69, Cl. 238-243.

Deckys, Jonas E., to Chemithon Corporation, The. Integrally formed dispensing containers having improved pouring means. 3,447,732, 6-3-69, Cl. 229-17.

de Claire, James H.; Ragsdale, La Verne B.; and Sprecher, Raymond G., to General Motors Corporation. Breakaway mirror support. 3,436,049, 4-1-69, Cl. 248-479.

De Claris, Nicholas; Greeson, James C., Jr.; and Horgan, Thomas B., to International Business Machines Corporation. Character recognition system. 3,482,211, 12-2-69, Cl. 340-146.3

Declark, Inc: *See*—
Burch, Arthur R., 3,428,149.
Burch, Arthur R., 3,445,009.
Gondeck, Frederick V.; Hickox, Lester E.; Kennedy, Thomas E.; Perez, Arthur; and Thompson, James F., 3,432,378.
Hancock, James E., 3,465,454.

DeCloux, Richard J.; and Madsen, John Robert, to Beede Electrical Instrument Co., Inc. Indicating meter relay with photoelectric means for sensing the overlapping of indicating pointer over set pointer. 3,441,740, 4-29-69, Cl. 250-231.

Decnop, Coenraad, to Amylo Chemie N.V. Cold-water-dispersible starch product. 3,443,990, 5-13-69, Cl. 127-33.

Deco Products Company: *See*—
Storlie, Llewellyn O.; and Northrup, Lyle M., 3,425,164.

Deco Tools, Inc.: *See*—
Faber, Elmer L., 3,422,794.

DeCoene, Frans J., to Clayson N.V. Unloading device for combines. 3,477,599, 11-11-69, Cl. 214-519.

De Cola, Rinaldo E., to Warwick Electronics Inc. Remote control switch responsive to superimposed power line frequency. 3,467,835, 9-16-69, Cl. 307-125.

Decombas, Robert. Adjustable fastener for structural components. 3,456,412, 7-22-69, Cl. 52-486.

de Coninck van Noyen, Pieter C. G. M., to La Soudure Electrique Autogene, Procedes Arcos. Machine for automatic welding of rising joints between vertical plates. 3,453,411, 7-1-69, Cl. 219-126.

Decor Specialties, Inc.: *See*—
Sulkes, Emanuel M., 3,465,806.

De Coster, Frank A., to Douk's Experiment. Linear motor control system. 3,435,312, 3-25-69, Cl. 318-130.

DeCotiis, Constant J.; and Parker, Bernard, to Singer-General Precision, Inc. Pneumatic digital attitude sensing means. 3,486,384, 12-30-69, Cl. 74-5.6

De Cotiis, Constant J.; Parker, Bernard; and Riordan, Hugh E., to Singer-General Precision, Inc. Free-rotor gyro. 3,438,269, 4-15-69, Cl. 74-5.12

De Cotiis, Constant John: *See*—
Riordan, Hugh F.; De Cotiis, Constant John; and Straut, Harold J.,3,465,600.

De Courcy, John E. Spinning and twisting appliance. 3,430,429, 3-4-69, Cl. 57-66.

Decouzon, Georges, to Regie Nationale des Usines Renault. Protection rings for universal joint packings. 3,457,732, 7-29-69, Cl. 64-17.

de Coye de Castelet, Gaetan, to Regie Nationale des Usines Renault. Reference devices for tools of cutting, stamping and swaging presses. 3,439,086, 4-15-69, Cl. 264-219.

de Coye de Castelet, Gaetan, to Regie Nationale des Usines Renault. Control mechanisms for flashing lights, especially for direction indicator lights for motor vehicles. 3,449,626, 6-10-69, Cl. 315-77.

de Coye de Castelet, Gaetan, to Societe des Aciers Fins de l'Est. Plants for the continuous casting of steel. 3,465,811, 9-9-69, Cl. 164-281.

de Coye de Castelet, Gaetan, to Regie Nationale des Usines Renault. Light signalling devices for vehicles. 3,483,509, 12-9-69, Cl. 340-81.

De Crecenzo, Giuseppe. Vaginal pessary. 3,452,752, 7-1-69, Cl. 128-285.

De Crevoisier, Michel: *See*—
Duport, Jacques P.; and De Crevoisier, Michel,3,433,014.

De Croes, Leon C. Golf ball pickup device. 3,434,753, 3-25-69, Cl. 294-19.

Decroly, Pierre: *See*—
Wollrab, Friedrich; and Decroly, Pierre,3,463,832.

Decrouez, Pierre L., to Proctor-Silex, Incorporated, mesne. Electric iron. 3,428,780, 2-18-69, Cl. 219-256.

deCsipkes, Victor R., to Pennsalt Chemicals Corporation. Power transmission assembly. 3,481,156, 12-2-69, Cl. 64-2.

De Cuir, Perry J. Anchorable and releasable well tool. 3,430,699, 3-4-69, Cl. 166-217.

DeCuir, Talford S.: *See*—
Feldman, Samuel I.; and DeCuir, Talford S.,3,425,738.

De Dapper, Jay W. Combined ignitor and propellent grain. 3,434,426, 3-25-69, Cl. 102-100.

Dedden, Hubert: *See*—
Nassenstein, Heinrich; Dedden, Hubert; and Paulus, Rudolf,3,469,480.

Dede, Joseph B., Jr., to Quaker Oats Company, The. Method of producing elastic gels from the residue of acid hydrolyzed pentosan-containing lignocellulosic material. 3,441,528, 4-29-69, Cl. 260-17.2

deDecker, Hendrik Kamiel: *See*—
Bayerl, Joseph James; deDecker, Hendrik Kamiel; and Lee, Ying Kao,3,433,759.

Dederick, Clinton H., to Emerson Electric Co. Electric motor. 3,486,050, 12-23-69, Cl. 310-90.

De Diemar, Ronald B., to Barber-Greene Company. Clamping and release means for crusher bowls. 3,459,383, 8-5-69, Cl. 241-215.

DeDiemar, Ronald B.; and Archer, Fred Curtis, to Barber-Greene Company. Jaw crusher adjustment. 3,473,744, 10-21-69, Cl. 241-219.

De Dobbeleer, Gilbert Desire, to Baxter Laboratories, Inc., mesne. Apparatus for hemodialysis of artificial kidney. 3,484,369, 12-16-69, Cl. 210-22.

Dedrick, Robert L.: *See*—
Kolobow, Theodor; and Dedrick, Robert L.,3,463,728.

Dedricks, Alvin N.; and Mueller, Lester A., to Manitowoc Company, Inc, The. Ice cube making apparatus. 3,430,452, 3-4-69, Cl. 62-138.

Dee, Geoffrey Thomas: *See*—
Chapman, John Dickinson; Dee, Geoffrey Thomas; Janikowski, Stanislaw Maria; and Peters, Roger Hugh,3,449,107.

Dee, John F., Jr. Low cut sports shoe. 3,430,365, 3-4-69, Cl. 36-2.5

Dee, William C., to Davis, Gilbert C. Flow meter. 3,427,879, 2-18-69, Cl. 73-231.

Dee, William Colin, to Davis, Gilbert C. Fluid bearings. 3,437,387, 4-8-69, Cl. 308-122.

Dee, William Colin, to Davis, Gilbert Colin. Fluid bearing pump. 3,446,150, 527-69, Cl. 103-87.
Deeg, Wyman L., to Clare, C. P., & Company. Data handling system. 3,423,734, 1-21-69, Cl. 340-168.
Deeg, Wyman L., to Clare, C. P., & Company. Change-of-state detector. 3,480,939, 11-25-69, Cl. 340-213.2
Deeg, Wyman L., to Clare, C. P., & Company. Digital comparator utilizing magnetic logic. 3,487,364, 12-30-69, Cl. 340-146.2
Deege, Walter: *See—*
Dowdall, Lester A.; and Deege, Walter,3,474,359.
Deeks, Hugh A. Exercising machine. 3,432,164, 3-11-69, Cl. 272-73.
Deeley, Alfred Ronald: *See—*
Fynn, David Ernest; and Deeley, Alfred Ronald,3,443,238.
Deeley, Gerald G.; and Herbert, John M., to Plessey Company Limited, The. Silicon nitride. 3,455,729, 7-15-69, Cl. 117-106.
Deeley, Leman A.: *See—*
Anderson, Jarl H.; and Deeley, Leman A.,3,456,898.
Deemie, Gerald W.; and Sage, Ira H., to Caterpillar Tractor Company. Backstop extension for friction welder. 3,439,853, 4-22-69, Cl. 228-2.
Deemie, Gerald W.; and Sage, Ira H., to Caterpillar Tractor Company. Friction welding apparatus. 3,451,608, 6-24-69, Cl. 228-2.
Deere & Company: *See—*
Arnold, Loren Glenn; Sullivan, James Franklin; and Esbeck, Howard Christian, 3,481,407.
Behlmer, Wilbur Dale, 3,485,063.
Breed, Arie Eugene; and Billhymer, Robert Franklin, 3,484,803.
Burrough, Donald E.; Fairbank, Raymond Harry; and Soteropulos, Gust, 3,469,381.
Burrough, Donald E.; and Barnes, Theodore Marion, 3,474,601.
Copley, Russell Dean; and Sutherland, Gail Russell, 3,464,191.
Creighton, John H.; Frinkmeyer, Francis M.; and Hanser, Paul E., 3,450,213.
Davis, Lewis K.; and Obadal, Richard D., 3,464,717.
DeBuhr, Harold Eugene; and Cofer, Larry Wilson, 3,479,894.
Downey, Wayne Allman, 3,442,147.
Erdman, Leon Paul, 3,465,607.
Essex, Duane Arnold, 3,463,241.
Fairbank, Raymond Harry; Leinhauser, Joe Paul; and Burrough, Donald E., 3,474,607.
Forth, Murray W., 3,451,333.
Frank, William Rudolph, 3,474,550.
Gassman, Max Paul, 3,485,303.
Hansen, Harold Valentine; Youngberg, Charles Harold; and Ford, Perry, Jr., 3,478,828.
Hanser, Paul E.; Schmidt, Robert L.; and Carr, Marvin W., 3,455,400.
Hanser, Paul Edmund, 3,454,110.
Harrington, Roy Edwards; and Shriver, George Harvey, 3,453,815.
Hennen, John Joseph, 3,452,796.
Hopkins, Richard Bruce, 3,446,010.
Hubbard, Arthur L., 3,422,608.
Hubbard, Arthur L., 3,422,751.
Hubbard, Arthur L., 3,427,791.
Hubbard, Arthur Lowell, 3,469,379.
Hubbard, Arthur Lowell, 3,487,450.
Johannsen, Bruno B.; and Thompson, John C., 3,428,136.
Johnson, Leslie William; and Reeder, Edwin William, 3,464,376.
Jones, William A., 3,432,095.
Kessler, Kenneth Q., 3,438,182.
King, Donald Ray; Allen, James Robert; and Wittren, Richard Arthur, 3,428,143.
Kirkpatrick, Kenneth L., 3,420,316.
Kress, James Henry; and Lemons, David Forrest, 3,479,908.
Kress, James Henry; and Hunck, Billie Gene, 3,481,419.
Kulak, John, 3,452,530.
Leinhauser, Joe Paul; Fairbank, Raymond Harry; Burrough, Donald E.; and Barnes, Theodore Marion, 3,459,273.
Love, Mahlon Lloyd, 3,452,885.
Malm, Donald; and Kainer, Carl Edward, 3,458,005.
Miley, Richard Erwin, 3,470,757.
Millar, Gordon Halstead, 3,452,529.
Miller, Robert Deryl; Edman, John Harold; and Bucher, David Hoffer, 3,443,833.
Muncke, Ludwig; Buchmuller, Josef; and Gross, Gerhard, 3,486,769.
Murphy, Kenneth Earl; and Miller, Robert Deryl, 3,463,511.
Myers, Herbert Arthur; and Holzhei, Don Earl, 3,432,075.
Nelson, Roger J.; and Treichel, Richard, 3,455,397.
Nelson, Roger John; and Treichel, Richard, 3,452,616.
Nighswonger, Lester Leroy; Hunk, Billie Gene; and Malm, Donald Irwin, 3,480,099.
Oehler, Alvin William; and Rohweder, Glen Willard, 3,474,606.
Peterson, Rudolph Andrew, Jr.; and Polzin, Donald Herman, 3,471,171.
Probsting, Bernhard, 3,431,712.
Reece, Wendell Dale; and Leonard, Ronald Keith, 3,484,802.
Resetich, John Martin, 3,474,605.
Roth, Robert Richard, 3,420,315.
Roy, Billy Bert; and Gregerson, Stanley Martin, 3,474,824.
Saemann, Karl Ludwig, 3,470,681.
Schnell, Ernst Emil; and Carolan, Donald Leo, 3,470,994.
Schreiner, Lester Dale; and Shindelar, Joseph John, 3,462,928.
Skromme, Arnold Burton; Henningsen, Etlar August; and Hoffman, John E., Jr., 3,462,975.
Skromme, Arnold Burton, 3,474,926.
Sommer, Anton; and Muncke, Ludwig, 3,427,046.
Soteropulos, Gust, 3,455,406.
Soteropulos, Gust, 3,479,805.
Soteropulos, Gust, 3,480,164.
Soteropulos, Gust; and McClellan, Marcus Earl, 3,485,016.
Soteropulos, Gust; Burrough, Donald E.; and Fairbank, Raymond Harry, 3,485,020.
Stemmerman, Paul Edward; Waschek, Arvid Gayle; and Moon, Seaton, 3,487,448.
Sullivan, James F., 3,451,489.
Sullivan, Thomas Milo, 3,481,421.
Swenson, Victor Eugene, 3,442,067.
Ten Pas, Warren Edward; Schnell, Ernst Emil; and Polzin, Donald Herman, 3,432,064.
Tweedy, Robert Hugh; and Edman, John Harold, 3,455,598.
Van Syoc, Wendell Mason, 3,463,510.
Wilken, George Henry; and Ginter, Robert Aloyious, 3,431,779.
Wood, William R., 3,422,606.
Youngberg, Charles Harold; and Hansen, Harold Valentine, 3,454,106.
Deering, Edwin Naul; and Jones, Wickliffe, to Jones, R. A., and Company, Incorporated. Apparatus for erecting cartons. 3,476,024, 11-4-69, Cl. 93-53.
Deering Milliken Research Corporation: *See—*
Anderson, Roy S., 3,461,105.
Bolinger, Edgar Dare, 3,427,192.
Bolinger, Edgar Dare; and Machell, Greville, 3,437,420.
Bolinger, Edgar Dare; Machell, Greville; and Marco, Francis W., 3,457,027.
Bolinger, Edgar Dare; and Morgan, Willard L., 3,475,114.
Bowman, Howard R., 3,422,863.
Cox, Furman S., 3,426,809.
De Vore, Bainard M.; Fowler, James E.; and Warthen, William P., 3,439,391.
Duncan, Frederick H., 3,461,467.
Gagarine, Dmitry M.; Habib, Emile E.; and La Fleur, Kermit S., 3,477,805.
Henry, William J., 3,444,677.
Klein, Norman E., 3,439,486.
Kuhn, Hans H., 3,420,731.
Kuhn, Hans H., 3,449,319.
Kuhn, Hans H.; and Machell, Greville, 3,457,028.
La Fleur, Kermit S., 3,421,827.
Lesley, Bascum G., 3,482,390.
Machell, Greville, 3,481,682.
McKesson, James H., 3,445,177.
Otto, Wolfgang K. F., 3,466,666.
Peters, Earl; and Dusenbury, Joseph H., 3,423,166.
Peters, Earl; and Cain, James Palmer, 3,449,061.
Piazza, Carlo, 3,440,418.
Pitts, Bobby L., 3,482,385.
Roff, William T., Jr., 3,483,024.
Rowe, Frank E., Jr., 3,419,966.
Smith, Philip N., 3,462,568.
Thomas, Manuel A., 3,439,678.
Thomas, Manuel A., 3,448,462.
Thomas, Manuel A., 3,462,294.
Weitzel, Edward W., 3,422,874.
Weitzel, Edward W.; and Hamby, Charles H., 3,476,581.
Whitworth, James W.; and Schroder, William J., 3,478,401.
Deery, Arthur R.: *See—*
Deery, Edward D.; Deery, Edward J.; and Deery, Arthur R.,3,427,143.
Deery, Edward D.; Deery, Edward J.; and Deery, Arthur R., to Heights Laboratory Glass Inc. Apparatus for forming a helically shaped glass tube. 3,427,143, 2-11-69, Cl. 65-279.
Deery, Edward J.: *See—*
Deery, Edward D.; Deery, Edward J.; and Deery, Arthur R.,3,427,143.
Deex, Oliver Des, to Monsanto Company. Interpolymer aqueous dispersions and paper coated therewith. 3,428,582, 2-18-69, Cl. 260-8.
Defain, Raymond, to CSF-Compagnie Generale de Telegraphie Sans Fil. Magnetic system. 3,454,838, 7-8-69, Cl. 317-123.
De Falco, Ralph J. Diagnostic test for presence of galactose. 3,477,817, 11-11-69, Cl. 23-230.
Defauw, John: *See—*
Urban, Charles T.; and Defauw, John,3,437,002.
De Fazio, Benjamin S.; Silvia, John, Jr.; and Zemme, Caesar J., to United States of America, Navy. Clothing closure. 3,449,764, 6-17-69, Cl. 2-96.
De Felice, Amedio P. Plastic shoe heel. 3,481,053, 12-2-69, Cl. 36-36.

De Fellippie, John C.; and Thomason, James L., to Martin-Marietta Corporation. Voltage deviation sensor. 3,436,561, 4-1-69, Cl. 307-235.
Defenbaugh, George Earl. Injector of meat tenderizing and flavoring preparations and substances. 3,441,980, 5-6-69, Cl. 17-30.
Defense Electronics, Inc.: *See—*
Ratner, Victor A., 3,445,633.
De Feo, Richard J.: *See—*
Cahn, Robert P.; Long, Robert B.; Cecchetti, Ralph; Carr, Jesse M., Jr.; and De Feo, Richard J.,3,481,971.
Carr, Jesse M., Jr.; Byars, Gerald A.; and De Feo, Richard J.,3,480,662.
DeFeo, Richard J., to Gulf Oil Corporation, mesne. Method for preparing 3',4'-dichloro- cyclopropanecarboxanilide. 3,462,486, 8-19-69, Cl. 260-557.
De Feo, Richard Joseph; and Byars, Gerald Albert, to Esso Research and Engineering Company. Ligand forming compositions and separations using them. 3,484,190, 12-16-69, Cl. 23-2.
Deffeyes, Kenneth S.; and Orr, William R., to Shell Oil Company. Method for determining sand grain imbrication angle. 3,475,679, 10-28-69, Cl. 324-1.
Defibrator Aktiebolag: *See—*
Asplund, Arne Johan Arthur; and Reinhall, Rolf Bertil, 3,446,699.
Asplund, Arne Johan Arthur; and Johansson, Johan Gunnar Inge, 3,467,323.
Reinhall, Rolf B., 3,471,366.
de Fies, Jan R. Heat exchanger. 3,456,718, 7-22-69, Cl. 165-10.
Deflandre, Rene, to Berthiez, Charles William, mesne. Milling and boring machines with rotary tailstocks. 3,470,790, 10-7-69, Cl. 90-14.
de Flines, Jan; and van der Waard, Willem Frederik, to Koninklijke Nederlandsche Gist- & Spiritusfabriek N.V.Process for making Δ^4-conenine-11 alpha-ol-3-one. 3,472,736, 10-14-69, Cl. 195-51.
de Flines, Jan: *See—*
van der Waard, Willem Frederik; and de Flines, Jan,3,431,173.
Deflorin, Alberto: *See—*
Bresciani, Angelo; and Deflorin, Alberto,3,455,861.
Defontenay, Paul. Apparatus for winding and unwinding sheet material or the like. 3,441,233, 4-29-69, Cl. 242-75.5.
Defoor, Franz, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for the dehydrogenatin of cyclohexanol. 3,422,146, 1-14-69, Cl. 260-586.
Deford, Donald D., to Phillips Petroleum Company. Closed cycle chromatography method and apparatus. 3,455,090, 7-15-69, Cl. 55-67.
Deford, Donald D., to Phillips Petroleum Company. Material contacting apparatus. 3,457,708, 7-29-69, Cl. 55-386.
Deford, Donald E.; and Rank, Charles R., to General Motors Corporation. Lash-free latching mechanism for adjustable steering column. 3,473,405, 10-21-69, Cl. 74-493.
de France, Henri; and Cahen, Roger R., to CFT-Compagnie Francaise de Television. Making of multi-color luminescent screens. 3,429,731, 2-25-69, Cl. 117-19.
De Frees, Joseph H. Tank manhole closure. 3,441,166, 4-29-69, Cl. 220-46.
De Frees, Joseph H. Vent valve having dynamic valve opening structure. 3,486,528, 12-30-69, Cl. 137-587.
De Fries, Robert M.: *See—*
Yeh, Tsu-Hsing; and De Fries, Robert M.,3,478,253.
Defroster Company, Inc., The: *See—*
Rickett, Edward, 3,428,993.
Defru, Albert C. Therapeutic brassiere. 3,439,682, 4-22-69, Cl. 128-460.
Dega, Robert L., to General Motors Corporation. High pressure lip seal. 3,455,564, 7-15-69, Cl. 277-134.
Degaetano, Ben, to Continental Research & Development Ltd. Oil filler breather cap. 3,451,584, 6-24-69, Cl. 220-44.
DeGaetano, Joseph F.; and Deinet, Adolph J., to Tenneco Chemicals, Inc. Process for the control of plant growth with N- (substituted benzylidene)alkyl amines. 3,466,164, 9-9-69, Cl. 71-121.
De Gain, William J., to Arma Corporation. Compression method for making a tubular product. 3,457,762, 7-29-69, Cl. 72-367.
De Gain, William J., to Koppy Tool Corporation, mesne. Indexing machine. 3,459,079, 8-5-69, Cl. 83-69.
De Gain, William J. Method of making a tubular product. 3,461,531, 8-19-69, Cl. 29-163.5
De Gain, William J., to Koppy Tool Corporation. Workpiece indexing and feed apparatus. 3,469,295, 9-30-69, Cl. 29-57.
De Ganahl, Carl: *See—*
de Ganahl, Carl Brice, 3,481,369.
de Ganahl, Carl Brice, to De Ganahl, Carl. Reinforced plastic pipe. 3,481,369, 12-2-69, Cl. 138-144.
De Gasperi, Frank E.: *See—*
Ligon, Elmer R.; De Gasperi, Frank E.; and Reed, Norman D.,3,454,997.
De Gast, Jacobus Gijsbert Cornelis, to U.S. Philips Corporation, mesne. Hydrostatic bearings. 3,442,560, 5-6-69, Cl. 308-5.
de Gaston, Raoul H. Work holding apparatus. 3,441,264, 4-29-69, Cl. 269-89.
de Gaudemaris, Gabriel: *See—*
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel,3,461,096.
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel,3,471,453.
Salle, Robert; Sillion, Bernard; and de Gaudemaris, Gabriel,3,470,140.
de Gaudermaris, Gabriel: *See—*
Rabilloud, Guy; Sillion, Bernard; and de Gaudermaris, Gabriel,3,476,590.
Dege, Bernhard: *See—*
Heeren, Hermann; Kratzer, Hans; and Dege, Bernhard,3,473,961.
De Geest, Wilfried Florent; and Verkinderen, Paul August, to Gevaert Photo-Producten N.V. Method of coating webs with photographic emulsions or other liquid compositions utilizing an electric field. 3,462,286, 8-19-69, Cl. 117-34.
Degener, Eberhart: *See—*
Holtschmidt, Hans; Nischk, Gunther; and Degener, Eberhart,3,467,695.
Degener, Eberhart; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Arylimino chlorocarbonyl cyanides and preparation thereof. 3,441,592, 4-29-69, Cl. 260-465.
Degenhardt, Heinrich; and Quaas, Werner, to Maschinenfabrik Augsburg-Nuremberg Aktiengesellschaft. Apparatus for removing bulk material from a stockpile. 3,444,984, 5-20-69, Cl. 198-36.
Degenhardt, Karl-Heinz; and Marx, Gerhard, to Azoplate Corporation, mesne. Developing electrostatic images with a liquid developer. 3,446,649, 5-27-69, Cl. 117-37.
Degenkolb, Robert S.; and Liederbach, William H., to Radio Corporation of America. Metallic connection and the method of making same. 3,434,877, 3-25-69, Cl. 117-212.
Degginger, Edward R.: *See—*
Booth, Robert E.; and Degginger, Edward R.,3,424,700.
Degginger, Edward R.; and Booth, Robert E., to Allied Chemical Corporation. Sucrose-glyceral-alkyleneoxide polyol compositions and process for preparing same. 3,442,888, 5-6-69, Cl. 260-209.
Sepkoski, Joseph J.; Trepa, Robert F.; and Degginger, Edward R.,3,464,935.
Deghenghi, Romano: *See—*
Vezina, Claude; and Deghenghi, Romano,3,476,779.
de Gibaja, Leonidas Gil. Detection systems. 3,439,357, 4-15-69, Cl. 340-258.
De Gier, Johannes, to North American Philips Company, Inc.,. Cathode ray tube having a non-discoloring x-ray absorptive display window. 3,422,298, 1-14-69, Cl. 313-64.
De Good, Maynard J., to Rapistan, Incorporated. Low pressure accumulator. 3,420,356, 1-7-69, Cl. 198--127
De Good, Maynard J.; and Bowman, Clyde L., to Rapistan Incorporated. Accumulator conveyor with pneumatic delay. 3,420,355, 1-7-69, Cl. 198-127.
De Good, Maynard J.; and Bowman, Clyde L., to Rapistan Incorporated. Motorized flow diverter. 3,429,417, 2-25-69, Cl. 198-31.
de Graaf, Johannes; and Blaauw, Albert, to N.V. Koninklijke Nederlandsche Zoutindustrie. Method for preparing an aliphatic α-amino- carboxylic acid from the corresponding α- chlorocarboxylic acid and ammonia. 3,475,489, 10-28-69, Cl. 260-534.
deGraaf, Paul A., to Parker-Hannifin Corporation. Fueling nozzle structure. 3,479,005, 11-18-69, Cl. 251-149.9
De Graff, Richard R., to Universal Oil Products Company. Separation process. 3,445,378, 5-20-69, Cl. 208-104.
De Graff, Richard R., to Universal Oil Products Company. Conversion method. 3,445,536, 5-20-69, Cl. 260-672.
De Graff, Richard R., to Universal Oil Products Company. Fractional distillation system with plural feeds, reboilers internal reflux controls. 3,475,287, 10-28-69, Cl. 202-155.
De Graff, Richard R., to Universal Oil Products Company. Separation of a reaction effluent containing constituents subject to thermal degradation. 3,481,859, 12-2-69, Cl. 208-102.
De Graff, Richard R.; and Perga, Martin W., to Universal Oil Products Company. Method for control of solvent separation processes. 3,445,381, 5-20-69, Cl. 208-313.
De Graff, Richard R.; and Perga, Martin W., to Universal Oil Products Company. Solvent extraction of aromatic hydrocarbons. 3,466,344, 9-9-69, Cl. 260-674.
De Graff, Richard R.; and Perga, Martin W., to Universal Oil Products Company. Aromatic hydrocarbon recovery process. 3,466,345, 9-9-69, Cl. 260-674.
De Graff, Richard R.; and Perga, Martin W., to Universal Oil Products Company. Method for aromatic hydrocarbon recovery. 3,466,346, 9-9-69, Cl. 260-674.
de Gramont, Arnaud M. J.; Maillot, Philippe J. P.; and Weisang, Joseph Edouard. Method of separating chlorinated hydrocarbons. 3,427,357, 2-11-69, Cl. 260-652.
de Greef, Jan A. Device for sorting in size agricultural or horticultural products. 3,421,617, 1-14-69, Cl. 209-97.
de Greeve, Harry V.; and Ragan, James B., to Ways & Means, Inc. Plastic dispensing container and method of making same. 3,434,906, 3-25-69, Cl. 156-466.
Degremont S.A.: *See—*
Bernard, Jacques Joseph Paul, 3,464,559.

Bernard, Jacques Joseph Paul, 3,470,092.
DeGroat, Paul H., to Xerox Corporation. Elimination of control degradation in landline facsimile transmission systems. 3,471,638, 10-7-69, Cl. 178-6.
De Groat, Paul H., to Xerox Corporation. Selective encoding technique for bandwidth reduction in graphic communication systems. 3,483,317, 12-9-69, Cl. 178-6.
de Grood, Emmett A. Ski release harness. 3,441,286, 4-29-69, Cl. 280-11.35
de Groot, Dirk Cornelis: *See*—
Van Damme-van Weele, Marina Adriana; and de Groot, Dirk Cornelis,3,433,590.
de Groot, Wouter F., to Continental Carbon Company. Burner and hydrocarbon injection assembly for carbon black reactors. 3,443,761, 5-13-69, Cl. 239-424.
DeGrove, William: *See*—
Klima, Edward F.; Seidel, Wilber R.; DeGrove, William; and Hightower, Frank J.,3,483,649.
De Grusso, Don. Seat holding device. 3,466,091, 9-9-69, Cl. 297-390.
Degryse, Michel; and Riolfo, Rene, to Commissariat a l'Energie Atomique. Electronic controls of a plutonium extraction battery employing neutron detectors. 3,454,366, 7-8-69, Cl. 23-270.5
Deguchi, Takashi: *See*—
Samejima, Horotoshi; Teranishi, Hiroshi; and Deguchi, Takashi,3,435,026.
Deguchi, Yoshio; Nojima, Hiroshi; and Kato, Naomichi, to Fujisawa Pharmaceutical Co., Ltd. Dibenzocycloalkylenylidene pyrrolidine derivatives. 3,454,595, 7-8-69, Cl. 260-326.81
De Haan, Alvie L. Method for setting corner irons. 3,424,077, 1-28-69, Cl. 100-2.
De Haan, Alvie L. Apparatus for setting corner irons. 3,469,878, 9-30-69, Cl. 294-19.
De Haan, Edward Fokko; Schampers, Paulus Philippus Maria; and Van Vucht, Johannes Hendrikus Nicolaas. Photo-responsive device having photo-sensitive PbO layer with portions of different conductivity types. 3,444,412, 5-13-69, Cl. 313-65.
De Haart, Inc.: *See*—
De Hart, Edward G., 3,444,372.
de Haas, Thijs: *See*—
Gray, Martin B.; de Haas, Thijs; and Perkett, Charles E.,3,445,593.
de Haas, Thijs, to General Dynamics Corporation. Differential phase shift keying receiver with information modulated on a plurality of tones. 3,485,949, 12-23-69, Cl. 178-67.
De Haas, Thijs; Gray, Martin B.; and Welsh, Joseph P., to General Dynamics Corporation. Synchronization of receiver time base in plural frequency differential phase shift system. 3,447,085, 5-27-69, Cl. 325-320.
Walker, Watson F.; and de Haas, Thijs,3,430,143.
Walker, Watson F.; de Haas, Thijs; and Gray, Martin B.,3,456,194.
DeHaes, Louis Maria, to Gevaert Photo-Producten N.V. Diffusion transfer process. 3,433,634, 3-18-69, Cl. 96-29.
De Haes, Maria Louis: *See*—
Willems, Jozef Frans; van Veelen, George Frans; and De Haes, Maria Louis,3,431,108.
Dehaine, Georges P.; and Maige, Pierre G., to Societe Lorraine de Laminage Continu. Belt-controlled winding device for metal strips. 3,425,252, 2-4-69, Cl. 72-148.
De Haller, Andre; and Baumgartner, Willy, to Gesellschaft zur Forderung der Forschung an der Eidgenossischen Technischen Hochschule. Arrangement for reinforcement of the intensity of optically produced images. 3,485,550, 12-23-69, Cl. 350-161.
DeHarde, Robert. Liquid metering and dispensing apparatus. 3,465,915, 9-9-69, Cl. 222-66.
De Hart, Arnold O., to General Motors Corporation. Anti-cavitation bearing grooving. 3,449,028, 6-10-69, Cl. 308-122.
De Hart, Arnold O.; Ferchland, Harold W.; and Lenz, Robert G., to General Motors Corporation. In process gauge. 3,475,826, 11-4-69, Cl. 33-174.
De Hart, Edward G., to De Haart, Inc. Photographic phosphor belt. 3,444,372, 5-13-69, Cl. 250-71.
De Hart, Edward G.; and Froehling, Dieter K. O. Circuit screening machine. 3,464,351, 9-2-69, Cl. 101-126.
De Hart, Marvin L.; and Straub, Harold E., to Titus Manufacturing Corporation. Rectangular air diffusers. 3,468,239, 9-23-69, Cl. 98-40.
De Hate, Paul F. Sand bath bathtub. 3,478,745, 11-18-69, Cl. 128-369.
DeHaven, Oliver S.: *See*—
Ford, Charles R.; DeHaven, Oliver S.; and Percifield, Edward K.,3,470,768.
De Havilland Aircraft of Canada, Limited, The: *See*—
Conway, John Albert; and Barker, Cedric Chaffer, 3,432,123.
Farbridge, Joseph Edward; Whittley, Donald Charles; and Smith, Edward Howard, 3,442,470.
Groskopfs, Ernest, 3,434,674.
Whittley, Donald Charles, 3,429,527.
de Heere, Gerard Andries Scheltema: *See*—
Beckman, Leo Heinrich Josef Franz; Schabbink, Johannes Gerardus Bernardus; and de Heere, Gerard Andries Scheltema,3,473,860.
De Hek, Jilles, to Verenigde Kunstmestfabrieken Mekog-Albatros N.V. Process for the cleaning of equipment. 3,440,170, 4-22-69, Cl. 252-146.
Dehler, Friedrich: *See*—
Koenig, Helge S.; Schjerven, Ragna Host; and Dehler, Friedrich,3,429,638.
Dehlin Dental Laboratory Company: *See*—
Hana, Norman A., 3,461,560.
Dehn, Frederick C., to PPG Industries, Inc. Distillate separation of iron contaminated hydrocarbon chlorides in the presence of phosphorus containing esters. 3,420,749, 1-7-69, Cl. 203-6.
Dehn, Heinz. Crystalline explosive composed of an alkyl sulfoxide solvating a hydrate-forming salt and method of making. 3,463,684, 8-26-69, Cl. 149-45.
Dehn, John S.; and Glass, John Arnold, to Monsanto Company. Purification process. 3,433,841, 3-18-69, Cl. 260-643.
Dehn, Roy F., to McNeil Corporation. Safety suspension for cab of stacker crane. 3,422,963, 1-21-69, Cl. 212-128.
Dehn, Roy F., to McNeil Corporation. Conductor bar type electrical distribution system. 3,449,532, 6-10-69, Cl. 191-29.
Dehn, Roy F., to McNeil Corporation. Electrical conductor bars. 3,461,250, 8-12-69, Cl. 191-22.
Dehn, Roy F., to McNeil Corporation. Tolley conductor guard. 3,475,568, 10-28-69, Cl. 191-35.
Dehn, Rudolph A., to General Electric Company. Multiple beam r.f. apparatus tuner. 3,484,861, 12-16-69, Cl. 315-5.16
Dehne, Clarence A., to Web, Jervis B., Company. Stop for conveyor carriers. 3,434,431, 3-25-69, Cl. 104-172.
Dehne, Clarence A. Conveyor switch. 3,464,364, 9-2-69, Cl. 104-96.
Dehne, Clarence A.; and Roland, Robert J., to Webb, Jervis B., Company. Dog positioning mechanism for conveyor carriers. 3,420,188, 1-7-69, Cl. 104-172.
Dehne, Clarence A.: *See*—
Curry, Byrl E.; Dehne, Clarence A.; and Farley, Joseph W.,3,451,352.
Dehnel, William: *See*—
Dastoli, Joseph; Dehnel, William; and Halepas, Leon J.,3,481,075.
Dehnert, Johannes; and Grosch, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Synthetic linear polyamides which have been colored with monoazo indole phthalimide dyes. 3,427,119, 2-11-69, Cl. 8-41.
De Hoff, Edward J., to General Motors Corporation. Disc brake floating caliper mounting means. 3,451,509, 6-24-69, Cl. 188-73.
De Hoff, Ronald L.; and Grieco, George D., to Vanderbilt, R. T., Company, Inc. Inhibition of crystallization of digylcidyl ether of bisphenol A. 3,477,981, 11-11-69, Cl. 260-31.2
Deibel, Joseph L.: *See*—
Gewartowski, Richard S.; Makowski, Frank T.; and Deibel, Joseph L.,3,483,739.
Deibel, Raymond A.; and Andrycha, Joseph J., to Trico Products Corporation. Fluid pressure power actuator. 3,437,014, 4-8-69, Cl. 92-30.
Deibel, Raymond A.; and Riester, William C., to Trico Products Corporation. Pneumatic actuator having a pressure differential operated latching mechanism. 3,439,580, 4-22-69, Cl. 91-45.
Deibel, Raymond A.; Riester, William C.; and Roberts, Hobart V., Jr., to Trico Products Corporation. Door locking system. 3,466,905, 9-16-69, Cl. 70-264.
Deibel, Raymond A.: *See*—
Bitzer, Martin; and Deibel, Raymond A.,3,470,915.
Deibel, William T. Brake shoes with removable and disposable linings. 3,467,229, 9-16-69, Cl. 188-245.
Deiber, Jack: *See*—
Allen, Merton; and Deiber, Jack,3,458,417.
Deibert, Max C., to Monsanto Research Corporation. Laminar electrodes including hydrophobic and hydrophilic layers; method of making; fuel cell therewith; and method of using fuel cell. 3,457,113, 7-22-69, Cl. 136-86.
Deibert, Max C.: *See*—
Yee, Wung Dai; and Deibert, Max C.,3,442,715.
Deibler, Anton: *See*—
Burkhardt, Gisbert; and Deibler, Anton,3,481,446.
Deichert, James W.; and Evans, Richard J., to Armstrong Cork Company. Composite floor structure-method of installation. 3,464,178, 9-2-69, Cl. 52-309.
Deichert, William George: *See*—
DeLapp, Darwin Fiske; and Deichert, William George,3,431,321.
Deigaard, Frank N.; and Olson, Arthur W. Hedge trimming machine. 3,433,005, 3-18-69, Cl. 56-235.
Deighton, William Rupert, to International Printers Limited. Process for producing printing plates. 3,441,486, 4-29-69, Cl. 204-6.
Deike, Robert F.: *See*—
Cochran, William H.; and Deike, Robert F.,3,486,325.

Deimen, Lawrence A., to Aeroquip Corporation. Method of treating and connecting tube fittings. 3,419,953, 1-7-69, Cl. 29-474.5
Deimling, Heinz; Holstein, Otto; and Heger, Ernst, to International Standard Electric Corporation. Teleprinter tape sensing attachment. 3,448,212, 6-3-69, Cl. 178-17.
Deimling, Heinz; and Lutz, Erich, to International Standard Electric Corporation. Telegraph apparatus having intermediate storage capability. 3,472,955, 10-14-69, Cl. 178-17.5
Deina, Rudolf, to Hydraulik GmbH. Cable sheathing press. 3,469,431, 9-30-69, Cl. 72-268.
Deiner, Hans: *See—*
Enders, Heinz; and Deiner, Hans,3,456,035.
Deines, Siegmund; Jeffers, Homer A., Jr.; Monroe, Wayne W.; and Mattingly, John W., to Aqua Tec Corporation. Hydraulic motor driven toothbrush. 3,484,885, 12-23-69, Cl. 15-22.
Deinet, Adolph J.: *See—*
DeGaetano, Joseph F.; and Deinet, Adolph J.,3,466,164.
Deinken, Herman P.; Hill, Jack; Bell, Donald L.; and Zastrow, John A., to United States of America, Atomic Energy Commission. Particle separator. 3,485,360, 12-23-69, Cl. 209-117.
Deisenroth, Robert J., to Excel Corporation. Method of bonding metal objects to glass panels. 3,468,738, 9-23-69, Cl. 156-293.
Deiss, Claude, to Fabriques Reunies de Lampes Electriques. Base for electric lamp. 3,441,778, 4-29-69, Cl. 313-318.
Deissmann, Walter: *See—*
Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, Hans-Joachim; Bornefeld, Horst; and Deissmann, Walter,3,451,835.
Deist, Robert P.: *See—*
Adams, Arthur C.; and Deist, Robert P.,3,487,073.
Deisz, Marvin A.: *See—*
Bauer, Ralph H.; and Deisz, Marvin A.,3,441,530.
Haefele, Walter R.; Dallas, Charles A.; and Deisz, Marvin A.,3,485,787.
De Jager, Donald, to Eastman Kodak Company. Triplet-type objective lens. 3,449,041, 6-10-69, Cl. 350-226.
De Jarld, Norman L .; and Martin, Laurence R., to Western Electric Company, Incorporated. Test circuit for determining whether a plurality of electrical switches operate in a prescribed break sequence. 3,440,524, 4-22-69, Cl. 324-28.
Dejean, Jacques Henri: *See—*
Cohen, Daniel; and Dejean, Jacques Henri,3,453,603.
Dejean, Jacques Henri; and Grandjean, Charles Henri Emile, to International Standard Electric Corporation. Traffic distribution by the business rate of line groups. 3,459,898, 8-5-69, Cl. 179-18.
De Jean, Ronald A.: *See—*
Goss, Harry F.; and De Jean, Ronald A.,3,484,235.
Dejo, Inc.: *See—*
Daman, Arthur E., 3,434,598.
de Jonckheere, Jacob A.; and de Jonckheere, Ruth A. Camper truck mounted awning. 3,426,775, 2-11-69, Cl. 135-5.
de Jonckheere, Ruth A.: *See—*
de Jonckheere, Jacob A.; and de Jonckheere, Ruth A.,3,426,775.
De Jong, Martijn H.: *See—*
Krol, Lambertus H.; Van Breen, Adriaan W.; and De Jong, Martijn H.,3,471,432.
De Jong, Willem P.: *See—*
Van Der Voort, Henricus G. P.; and De Jong, Willem P.,3,454,555.
de Jongh, Wilhelmus Kare, to North American Philips Company, Inc. X-ray crystal monochromator with a reflecting surface that conforms to part of a logarithmic spiral. 3,439,163, 4-15-69, Cl. 250-51.5
Dejoux, Jean Veran, to Reisini, Nicolas. Viewer for animated strips. 3,476,470, 11-4-69, Cl. 352-68.
Dejoux, Jean Veran, to Reisini, Nicolas. Optical printer. 3,480,362, 11-25-69, Cl. 355-40.
de Julian, Pablo Martin. Power transmission mechanism. 3,435,707, 4-1-69, Cl. 74-677.
DeJur-Amsco Corporation: *See—*
Lessler, Lew W., 3,450,471.
Deka Plastics, Inc.: *See—*
Schnur, Martin; and Appel, Mel, 3,428,381.
De Kalb Industries, Inc.: *See—*
Coscia, Salvatore G., 3,424,607.
Dekan, Howard L., to Marvin Glass & Associates. Splashing doll. 3,436,859, 4-8-69, Cl. 46-247.
Dekan, Vincent A.; and Silks, Walter, to Westinghouse Air Brake Company. Corner sprocket retainer and release. 3,424,500, 1-28-69, Cl. 299-59.
De Keyser, Lodewijk Felix; Conix, Andre Jan; and Van Dessel, Lodewijk August, to Gevaert Photo-Producten N.V. Photographic element comprising subbed polyester film support. 3,434,840, 3-25-69, Cl. 96-87.
Dekker, Jan, to Shell Oil Company. Production of plastic foam sheet. 3,422,172, 1-14-69, Cl. 264-51.
Dekking, Henri G. G., to Union Oil Company of California. Method of preparing polypeptide graft copolymers. 3,442,826, 5-6-69, Cl. 260-8.
Dekking, Henri G. G., to Union Oil Company of California. Method for preparing polysaccharide graft copolymers. 3,455,853, 7-15-69, Cl. 260-17.4
De Kleine, William C.: *See—*
Darbee, Leonard R.; and De Kleine, William C.,3,421,842.
De Klotz, Ralph E., to Avco Corporation. Adjustable variable thrust propulsion device. 3,442,083, 5-6-69, Cl. 60-229.
de Koning, Arie Adrianus; and de Koning, Kornelis Korstiaan Karel. Collapsible dome. 3,470,659, 10-7-69, Cl. 52-63.
De Koning, Cornelis, to North American Philips Company, Inc. Device for simultaneously recording and/or reproducing different signals. 3,422,367, 1-14-69, Cl. 330-59.
de Koning, Kornelis Korstiaan Karel: *See—*
de Koning, Arie Adrianus; and de Koning, Kornelis Korstiaan Karel,3,470,659.
de Koster, Heinz A.; and Ingenito, Michael J., to General Time Corporation. Timekeeping system utilizing glow discharge tube. 3,466,498, 9-9-69, Cl. 315-84.6
De Krauze, Richard Gregory. Kitchen sink plug. 3,449,775, 6-17-69, Cl. 4-287.
de Kroes, Jan Louis; and van Eijk, Willem, to U.S. Philips Corporation, mesne. Push-button signalling members. 3,483,332, 12-9-69, Cl. 179-90.
de Kyvon, Robert Lestrade Carluer, to Expandet S.A. Screw or lag bolt of the wood-screw type. 3,461,770, 8-19-69, Cl. 85-46.
Del Curto, Brian: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,430,131.
Del-Guy Inc.: *See—*
Long, Douglas R., 3,454,296.
de la Breteque, Pierre, to Swiss Aluminium Ltd. Process for purifying solution containing aluminates. 3,457,032, 7-22-69, Cl. 23-52.
de la Bretoniere, Andre Benoit, to American Enka Corporation. Method and apparatus for heating thread-like products. 3,441,702, 4-29-69, Cl. 219-10.61
De La Cierva, Juan; Perlmutter, Adolf A.; and Fraser, David B., to Dynasciences Corporation. Aircraft electrostatic discharging system. 3,427,504, 2-11-69, Cl. 317-2.
De La Rue Frigistor Limited: *See—*
Barton, Donald Moore; and Robinson, Colin, 3,435,622.
Barton, Donald Moore; and Robinson, Colin, 3,456,538.
De La Rue Instruments Limited: *See—*
Middleditch, Stanley William; and Sels, Victor Richard, 3,420,149.
De La Torre, Leroy C.: *See—*
Wilson, Homer M.; and De La Torre, Leroy C.,3,431,488.
Delaby, Pierre-Andre Raymond, to Les Laboratoires Dausse. Tetracycline salts of 4-methyl-aesculetin- monoethanoic acid. 3,465,005, 9-2-69, Cl. 260-343.2
Delacour, Jacques; and Casteran, Jean, to Institut Francais du Petrole, des Carburats et Lubrifiants. Apparatus for the handling and assembling of tubular rigid elements on a floating installation. 3,420,318, 1-7-69, Cl. 175-5.
Delafrange, Kenneth M.; and Rappaport, Max, said Rappaport assor. to said Delafrange. Receptacle overload switch. 3,441,799, 4-29-69, Cl. 317-9.
Delagrange, Arthur D., to United States of America, Navy. High input impedance amplifier circuit. 3,436,672, 4-1-69, Cl. 330-38.
Delagrange, Arthur D., to United States of America, Navy. Linear interpolator circuit. 3,484,777, 12-16-69, Cl. 340-347.
Delahunt, John F.; and Haisch, Richard A., to Esso Research and Engineering Company. Control system and method for anodic protection. 3,483,101, 12-9-69, Cl. 204-147.
De Lain, Robert L. Chalk marking device. 3,475,822, 11-4-69, Cl. 33-87.
Delaire, Gerard V.; and Peace, Robert G., to Eastman Kodak Company. Method of forming plastic book backs. 3,454,694, 7-8-69, Cl. 264-151.
deLajarte, Stephane Dufaure, to Compagnie de Saint-Gobain. Manufacture of flat glass on a molten metal bath. 3,427,142, 2-11-69, Cl. 65-65.
DeLajarte, Stephane Dufaure; and Bourgeaux, Maurice, to Compagnie de Saint-Gobain. Method and apparatus for producing flat glass. 3,468,649, 9-23-69, Cl. 65-91.
De Lamater, Paul F., to Reliance Electric and Engineering Company, The, mesne. Elevator control having automatic reset of car travel. 3,429,404, 2-25-69, Cl. 187-29.
Delamater, William B. Shower head. 3,432,105, 3-11-69, Cl. 239-455.
Delamater, William B. Waste pipe plug. 3,448,772, 6-10-69, Cl. 138-89.
de Lamballerie, Guy Nicolas, to Entreprise de Recherches et d' Activites Petrolieres (E.R.A.P.). Dynamic filter press. 3,435,663, 4-1-69, Cl. 73-38.
Delams, Rene: *See—*
Willm, Pierre; and Delams, Rene,3,443,543.
De Lancey, Warren H.; Hays, Herbert G.; and Hartzell, Donald W., to American Standard Inc. Gas burner. 3,469,791, 9-30-69, Cl. 239-419.5
Delaney, Charles E., to Overhead Door Corporation. Safety switch cutoff control. 3,474,317, 10-21-69, Cl. 318-266.

Delaney, Charles E., to Overhead Door Corporation. Ratchet relay. 3,481,212, 12-2-69, Cl. 74-142.
Delaney, Edward Axel: *See—*
Barton, Bernard Charles; Nudenberg, Walter; and Delaney, Edward Axel,3,466,268.
Nudenberg, Walter; Merrifield, Dudley Bruce; and Delaney, Edward Axel,3,424,736.
Delaney, Everett W., to United Aircraft Corporation. Aircraft fuel storage and distribution system. 3,432,121, 3-11-69, Cl. 244-17.11
Delaney, James J.: *See—*
Gazzoli, Anthony, 3,452,150.
Delaney, John J., to Medico Industries Inc. Indexing mechanism for rotary table. 3,421,391, 1-14-69, Cl. 74-822.
Delaney, Robert V.: *See—*
Binder, Herbert; and Delaney, Robert V.,3,475,971.
Delaney, Ronald A.; and Williams, Jesse J., Jr., to International Business Machines Corporation. Thermistor and method of fabrication. 3,444,501, 5-13-69, Cl. 338-22.
Delaney, Vincent N., to Torrington Manufacturing Company, The. Apparatus for stacking palletized groups of articles in a container. 3,434,264, 3-25-69, Cl. 53-59.
De Lange, Herman Kasper Adriaan; and Pollaschek, Viktor, to North American Philips Company, Inc. Device for switching the movements of a tape- shaped record carrier in recording and/or play- back apparatus. 3,424,965, 1-28-69, Cl. 318-284.
De Lange, Owen E., to Bell Telephone Laboratories, Incorporated. Optical pulse multiplier. 3,447,856, 6-3-69, Cl. 350-150.
de Lange, Robert Gerardus; Verbraak, Cornelis Antonius; and Zijderveld, Jacobus Antonius, to Nederlandse Centrale Organisatie voor Toegepast- Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Self-projectable element for a space vehicle. 3,450,372, 6-17-69, Cl. 244-1.
De Langis, Philip A., to Physio-Control Corporation. Ground absence detector and protective device. 3,426,342, 2-4-69, Cl. 340-255.
De Lano, Artus D. Surgical splint. 3,446,206, 5-27-69, Cl. 128-79.
Delany, James F.; and Walter, Gerard O., to RCA Corporation. Photocomposing apparatus support structure. 3,479,934, 11-25-69, Cl. 95-4.5
Delapalme, Bernard M. Radio direction-finding receiver for the detection of radar apparatus. 3,465,342, 9-2-69, Cl. 343-113.
DeLapp, Darwin Fiske; and Deichert, William George, to American Cyanamid Company. Weather-resistant unsaturated polyester resin composition. 3,431,321, 3-4-69, Cl. 260-872.
De Lapp, Darwin Fiske: *See—*
Ramsey, Wallace Burton; and De Lapp, Darwin Fiske,3,421,928.
De Lara, Juan Francisco. Cracklings and process for their manufacture. 3,428,462, 2-18-69, Cl. 99-107.
De Larm, Gerald L. Farm implement lift assembly and drawbar combination. 3,465,832, 9-9-69, Cl. 172-491.
Delarue, Jean-Louis Auguste; and Fallard, Rene Louis, to Laboratoires Toraude. Lipotropic compositions and their administration. 3,461,211, 8-12-69, Cl. 424-316.
Delarue, Lucien; and Doucas, Pierre, to Regie Nationale des Usines Renault. Feed control devices for carburetor engines. 3,482,557, 12-9-69, Cl. 123-136.
Delarue, Roger: *See—*
Carpentier, Serge; Delarue, Roger; Francois, Henri; Grand-Clement, Anne-Marie; Portal, Guy; and Soudain, Georges,3,449,136.
Delassus, Marcel; Devaux, Richard; and Hofman, Theophile, to Houilleres du Bassin du Nord & du Pas-de-Calais. Method and apparatus of measuring the speed of thermal decomposition of polymers. 3,469,945, 9-30-69, Cl. 23-230.
Delatorre, Leroy Christopher, to Camco, Incorporated. Battery low voltage cutoff and regulator. 3,445,746, 5-20-69, Cl. 320-40.
Delatorre, Leroy C.: *See—*
Wilson, Homer M.; and Delatorre, Leroy C.,3,465,239.
Delattre, Michel M.: *See—*
Contensou, Pierre L.; Delattre, Michel M.; and Gay, Michel J.,3,438,267.
De Laval, Inc.: *See—*
O'Neill, Raymond J., 3,452,869.
Delaval, Jean Claude; Guinet, Paul Alfred Eugene; and Morel, Jean, to Rhone-Poulenc S.A. Process for the preparation of linear organopolysiloxanes. 3,439,013, 4-15-69, Cl. 260-448.2
De Laval Separator Company, The: *See—*
Nelson, Kurt, 3,433,249.
Nelson, Kurt, 3,451,327.
Nelson, Kurt, 3,482,770.
De Laval Turbine, Inc.: *See—*
Boyd, James R., 3,421,624.
Czarnecki, Jerzy J., 3,473,729.
Czarnecki, Jerzy J.; and Arkwright, Peter, 3,476,053.
Luce, Laurence E., Jr., 3,447,683.
McLean, John O., 3,478,873.
McLean, John O.; and Schneider, John R., 3,478,874.
O'Neill, Raymond J., 3,437,210.
O'Neill, Raymond J., 3,443,695.
Pilarczyk, Karol, 3,465,886.
Schneider, John R., 3,457,169.
Delavarenne, Serge Y.; and Viehe, Heinz G., to Union Carbide Corporation. Process for the preparation of di(N,N-dihydrocarbylamino) acetylenes. 3,483,256, 12-9-69, Cl. 260-583.
Delaware Research & Development Corporation: *See—*
Petze, Charles L., Jr., 3,456,066.
Petze, Charles L., Jr., 3,460,787.
Delbar Products, Incorporated: *See—*
Clark, Paul D., 3,476,464.
Delbouille, Andre; and Speltinckx, Rene, to Solvay & Cie. Process for the preparation of polymerization catalysts. 3,454,547, 7-8-69, Cl. 260-94.9
Delbouille, Andre; and Toussaint, Henri, to Solvay & Cie. Process and catalysts for polymerization and copolymerization of olefins and the resultant polymers and copolymers. 3,479,326, 11-18-69, Cl. 260-80.78
Delbouille, Andre; and Toussaint, Henry, to Solvay & Cie. Process for the polymerization of olefins. 3,424,737, 1-28-69, Cl. 260-94.9
Delcellier, Henri A.; and Mills, Phillip J., to Canadian Ingersoll-Rand Company Limited. Centrifugal filtering apparatus. 3,448,858, 6-10-69, Cl. 209-270.
Delcour, Kees: *See—*
Hovestreydt, Gerrit; Logemann, Johan D.; and Delcour, Kees,3,455,813.
Delcoustal, Jean: *See—*
Crignon, Jacques; and Delcoustal, Jean,3,469,721.
Del Duca, Anthony, to United States of America, National Aeronautics and Space Administration. Electronic divider and multiplier using photocells. 3,423,579, 1-21-69, Cl. 235-194.
de Leeuw, Gerrit: *See—*
Benard, Emil J. J.; and de Leeuw, Gerrit,3,453,096.
DeLeo, James M.: *See—*
MacDonald, Hugh D., Jr.; DeStefano, Leonard A.; and DeLeo, James M.,3,421,720.
DeLeo, Louis P.: *See—*
O'Regan, Charles P.; and DeLeo, Louis P.,3,465,225.
De Leo, Richard V., to Rosemount Engineering Company. Lift reserve indicator system. 3,470,740, 10-7-69, Cl. 73-178.
De Leo, Richard V.; and Hagen, Floyd W., to Rosemount Engineering Company. Strut mounted dual static tube. 3,482,445, 12-9-69, Cl. 73-182.
De Leon, Vernon C. Spill proof drinking cup. 3,428,214, 2-18-69, Cl. 220-90.4
De Leonardis, Alfonso J., to United States of America, Army. Rotor fuze. 3,483,822, 12-16-69, Cl. 102-79.
Deleroi, Werner: *See—*
Hintz, Harald; and Deleroi, Werner,3,454,863.
Del Fa', Clemente:*See—*
Ferrara, Gianfranco; Del Fa', Clemente; Carta, Mario; and Ciccu, Raimondo,3,476,243.
Delfeld, William F.: *See—*
Park, Francis W.; Blough, Arthur K.; Noll, Stanley Darwin; Delfeld, William F.; Kraus, George I.; and Kraus, Robert,3,439,794.
Delfino Bros.: *See—*
Delfino, Frank; and Pool, Robert E., 3,475,841.
Delfino, Frank; and Pool, Robert E., said Delfino assor of 50% and said Pool assor of 5% to Delfino Bros. Scraper with eccentrically driven teeth. 3,475,841, 11-4-69, Cl. 37-141.
Del Gaudio, Italo, to Texas Instruments, Incorporated. Safety interlock for appliances. 3,458,675, 7-29-69, Cl. 200-61.64
Del Giudice, Frank J., to Hardman Aerospace, mesne. Aircraft seat assembly with lateral positioning facility. 3,480,240, 11-25-69, Cl. 244-118.
Del Giudice, Frank P., to Metal Hydrides Incorporated. Method for removing solvents from metal hydride solvates. 3,453,089, 7-1-69, Cl. 23-305.
Deli, Jack M., to International Harvester Company. Track joint having floating seal. 3,437,385, 4-8-69, Cl. 305-11.
Deli, Jack M., to International Harvester Company. Bulldozer tiltable blade mounting. 3,452,828, 7-1-69, Cl. 172-803.
Deli, Jack M., to International Harvester Company. Track joint having floating seal. 3,469,891, 9-30-69, Cl. 305-11.
Deli, Jack M.; and Hermiz, Ramiz Y., to International Harvester Company. Track pin and bushing seal assembly. 3,447,837, 6-3-69, Cl. 305-11.
Deli, Jack M.; Jacobsen, Walter C.; Fanslow, Ronald J.; and Mosquera, Hugo O., to International Harvester Company. Vehicle instrument console having pivoting guard cover. 3,452,835, 7-1-69, Cl. 180-90.
Deli, Jack M.; and Storck, Robert C., to International Harvester Company. Sealed joint with metal lined bushing recess. 3,451,727, 6-24-69, Cl. 305-11.
D'Elia, Anthony N.; and Stolarz, Edward M. Chance game device having an indicia bearing base indexed by rotatable members having indicators thereon. 3,458,200, 7-29-69, Cl. 273-138.
D'Elia, Anthony N.; and Stolarz, Edward M. Easy tear tape with lift tab. 3,467,250, 9-16-69, Cl. 206-59.
D'Elia, Anthony N.; and Stolarz, Edward M. Temperature control means for electrically heated hair curler. 3,486,000, 12-23-69, Cl. 219-222.

D'Elia, Anthony N.; and Stolarz, Edward M. Electric hair curlers. 3,487,197, 12-30-69, Cl. 219-222.
D'Elia, Anthony N.; and Stolarz, Edward M., to Presto Lock Co., Inc. Handle assembly for luggage or the like. 3,430,742, 3-4-69, Cl. 190-58.
De Ligt, John, to West Virginia Pulp and Paper Company. Method and apparatus for covering rolls. 3,449,811, 6-17-69, Cl. 29-148.4
Delin, Lars Folke: *See—*
Nordstedt, Hans Josef; and Delin, Lars Folke,3,458,873.
Nordstedt, Hans Josef; and Delin, Lars Folke,3,486,174.
Delisio, Charles J.: *See—*
Scaravilli, Victor J.; and Delisio, Charles J.,3,451,722.
de Lisle, August Louis, to Phoenix Gems, Inc., mesne. Storage of seeds to produce a cereal product free of frag count and toxic residue. 3,476,568, 11-4-69, Cl. 99-93.
De Lisse, Carroll W.: *See—*
Burgess, Nathan S., Jr.; and De Lisse, Carroll W.,3,451,862.
Delius, Hermann: *See—*
Singer, Hermann; Delius, Hermann; and Kuhr, Johann,3,466,814.
Delivorias, Peter, to RCA Corporation. Complementary MOS transistor integrated circuits with inversion layer formed by ionic discharge bombardment. 3,461,361, 8-12-69, Cl. 317-235.
Delker, Thomas C., to Bendix Corporation, The. Coupler. 3,434,372, 3-25-69, Cl. 74-579.
Dell'Eugenio, Beniamino, to Montecatini Edison S.p.A. System for the transfer of analogue data. 3,426,333, 2-4-69, Cl. 340-173.
Dell, Harry John; Folkenroth, Earl Earnest; and Garver, William Joseph, to AMP Incorporated. Strain relief. 3,424,416, 1-28-69, Cl. 248-56.
Dell, Harry John; and Stoyer, Charles Robert, III, to AMP Incorporated. Housing member. 3,467,942, 9-16-69, Cl. 339-49.
Dell Plastic Company,Inc.: *See—*
Greenblatt,Abraham Jacob, 3,466,796.
Della Gala, Maria. Device for teaching arithmetic and particularly the decimal number system. 3,430,363, 3-4-69, Cl. 35-31.
Della-Porta, Clifford, to Premier Drum Company Limited, The. Tightening the heads of single headed instruments. 3,482,479, 12-9-69, Cl. 89-411.
Della Torre, Edward. Human voice recognition device. 3,456,080, 7-15-69, Cl. 179-1.
Della Torre, Giancarlo, to Singer Company, The. Compensating loop taker mechanisms. 3,479,978, 11-25-69, Cl. 112-159.
Del Laboratories, Inc.: *See—*
Scott, Morton W.; Hayes, Raymond K.; and Levine, Sol, 3,437,095.
Scott, Morton W.; and Levine, Sol, 3,471,611.
Dellaguzzo, Dominick. Vest with detachable cummerbund. 3,470,567, 10-7-69, Cl. 2-102.
Delledonne, Gaudenzio. Device for pneumatically controlling the closing of a motor-vehicle, tram carriage window and the like. 3,435,559, 4-1-69, Cl. 49-280.
Deller, Konrad, to ALWEG Gesellschaft mit beschrankter Haftung. Monorail truck. 3,439,629, 4-22-69, Cl. 105-133.
Dellert, Richard H., to Sinclair Research, Inc. Two-stage catalytic hydrogenation process for upgrading crude shale oil. 3,481,867, 12-2-69, Cl. 208-254.
Dellinger, Carl L., to Universal American Corporation. Bearing assembly. 3,427,081, 2-11-69, Cl. 308-15.
Dellinger, Larry D.: *See—*
Goins, Buren L.; Lewis, Hazel W.; and Dellinger, Larry D.,3,427,057.
Dellinger, Matthew Henry: *See—*
Bach, Ricardo O.; Kamienski, Conrad W.; Dellinger, Matthew Henry; Mitchem, Luther C.; and Morrison, Robert C.,3,445,534.
Dellinger, Thomas B.; and Cobbs, James H., to Fenix & Scisson, Inc. Method of and means for sealing casing strings. 3,474,866, 10-28-69, Cl. 166-289.
Del Mar Engineering Laboratories: *See—*
Gebhardt, Alfred A., 3,485,046.
Delmas, Robert: *See—*
Foex, Marc; and Delmas, Robert,3,476,907.
Delmatic Limited: *See—*
Woodnutt, John, 3,483,424.
Delmonte, John; and Meadows, Paul L., to Furane Plastics Incorporated. Process of casting a polyurethne to form a flexible mold. 3,428,725, 2-18-69, Cl. 264-226.
Delmonte, Julian, to Whittaker Corporation, mesne. Differential pressure transducer. 3,427,884, 2-18-69, Cl. 73-398.
del Moral, Martin Duarte. Appliance for drying moist articles. 3,479,749, 11-25-69, Cl. 34-103.
Delmore, Paul J., to Eastman Kodak Company. Conductive magnetic tape support. 3,440,091, 4-22-69, Cl. 117-216.
De Loach, Bernard C., Jr., to Bell Telephone Laboratories, Incorporated. Tunable crystal diodes. 3,448,415, 6-3-69, Cl. 333-98.
De Loach, Bernard C., Jr.; Gummel, Hermann K.; and Scharfetter, Donald L., to Bell Telephone Laboratories, Incorporated. Negative resistance microwave device. 3,426,295, 2-4-69, Cl. 331-107.
DeLoach, James R., to Graniteville Company. Apparatus for altering permanent press garments. 3,453,757, 7-8-69, Cl. 38-141.
DeLoe, O. Paul: *See—*
Beebe, Jerry T.; and DeLoe, O. Paul,3,431,959.
Deloire, Raymond, to La Spirotechnique. Mouthpiece regulator. 3,447,535, 6-3-69, Cl. 128-147.
Delomere & Williams Company, Limited: *See—*
Bateman , Lawrence Giles, 3,473,294.
De Long, Charles F.: *See—*
Murray, Jerome L.; and De Long, Charles F.,3,485,248.
De Long Corporation: *See—*
Slemmons, Charles O., 3,422,505.
DeLong, Herbert K.; and Ritzema, Donald E., to Dow Chemical Company, The. Protective treatment for magnesium. 3,447,973, 6-3-69, Cl. 148-6.16
De Long, Roger G.: *See—*
Hilpert, Conrad R.; and De Long, Roger G.,3,469,663.
De Long, Vincent R.; Durspek, William J., Jr.; and Weltha, Marvin D., to Collins Radio Company. Dual-band transmission line tunable resonant tank circuit. 3,452,293, 6-24-69, Cl. 330-56.
De Lorean, John Z., to General Motors Corporation. Internal combustion engine. 3,422,806, 1-21-69, Cl. 123-195.
De Lorean, John Z., to General Motors Corporation. Seat anchorage. 3,451,719, 6-24-69, Cl. 297-385.
De Lorme, Albert R.: *See—*
Dryer, Peter J.; and De Lorme, Albert R.,3,432,630.
Stoi, Walter T.; De Lorme, Albert R.; and Sketch, Harry F.,3,431,371.
De Lorme, James F.: *See—*
Sommerud, Rolf Gunnar; Holmboe, Christian Fredrik; and De Lorme, James F.,3,447,081.
Delp, Winner F., to Jade Corporation, The. Radiation sensitive position sensing apparatus. 3,423,597, 1-21-69, Cl. 250-231.
Del Pesco, Andrew. Adjustable article holder. 3,428,286, 2-18-69, Cl. 248-474.
DelPesco, Andrew. Flexible shackle lock. 3,435,642, 4-1-69, Cl. 70-49.
Del Piano, Francis F.; and Cazzaniga, Tino. Plastic ski track. 3,443,493, 5-13-69, Cl. 94-3.
Delplancke, Firmin: *See—*
Brabon, Roger; Beaumariage, Andre; De Boeck, Willy; De Broeyer, Roland; Delplancke, Firmin; and Van Innis, Marcel,3,465,097.
Delrieux, Jean Louis, to L'Electro-Refractaire. Process for continuously melting and solidifying refractory materials. 3,484,511, 12-16-69, Cl. 264-57.
Del Rosso, Victor. Horizontal vibratory dispenser with weighing and tilting discharger. 3,426,853, 2-11-69, Cl. 177-103.
Delroy, William: *See—*
Thompson, Stewart Philip; and Delroy, William,3,429,736.
Delsuc, Jean. Volumetrical pump. 3,463,091, 8-26-69, Cl. 103-131.
Delta Air Lines, Inc.: *See—*
Boxley, Julian M., 3,456,363.
Delta Exploration Company, Inc.: *See—*
Babb, John J., 3,424,267.
Babb, John J., 3,435,410.
Delta Rope & Twine Limited: *See—*
Kippan, James A., 3,446,002.
Deltieure, Rene P., to Thiokol Chemical Corporation. Method for regulating pot life of curable liquid polysulfide polymer. 3,455,854, 7-15-69, Cl. 260-18.
Deltrol Corp.: *See—*
Donner, Verne P., 3,424,196.
De Luca, Frank J.: *See—*
Jacobson, Moses G.; and De Luca, Frank J.,3,455,807.
Deluca, Frank P., Jr., to Amsalco, Inc. Acoustic filtration apparatus. 3,478,883, 11-18-69, Cl. 210-108.
De Luca, John: *See—*
Oltra, Claude H.; and De Luca, John,3,463,587.
Deluca, Joseph A., Jr. Safe load indicator. 3,479,984, 11-25-69, Cl. 116-124.
De Luca, Patrick Philip; and Lachman, Leon, to Ciba Corporation. Stable neomycin solution. 3,429,967, 2-25-69, Cl. 424-175.
De Luca, Peter L. Dummy warhead for rocket, missile or the like. 3,440,963, 4-29-69, Cl. 102-92.7
De Lucia, Santo; and Scaduto, Daisy. Board game apparatus comprising player manifulated token advancing and lifting means. 3,458,198, 7-29-69, Cl. 273-131.
De Lucia, Victor E., to Torr Laboratories Inc. Vacuum relay. 3,441,882, 4-29-69, Cl. 335-154.
de Lucia, Victor E., to Torr Laboratories, Inc. Vacuum relay. 3,443,046, 5-6-69, Cl. 200-144.
De Luxe Laboratories, Inc.: *See—*
Freedman, Harold J., 3,434,898.
Hanson, Everett L., 3,451,605.
De Luxe Topper Corporation: *See—*
Bonanno, Joseph L.; and Crosman, Dorland L., 3,423,874.
Bonanno, Joseph L.; and Crosman, Dorland L., 3,425,153.
Tepper, Sidney; and Boydman, Hyman P., 3,444,645.
del Valle, Ignacio G.: *See—*
Stuckey, Alto N., Jr.; Blackwell, Noah E., III; and del Valle, Ignacio G.,3,475,323.

Delvaux, Jean L. L., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Recording and reading system for color television and analagous angle-modulated signals. 3,424,861, 1-28-69, Cl. 178-5.2

Delvaux, Jean Leon Lucien, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Color television recording and reproducing system. 3,424,860, 1-28-69, Cl. 178-5.2

Delve Inc.: *See—*
Williams, Robert M., 3,457,570.

Del Vecchio, George D.; and Ferrari, Patrick T., to Xerox Corporation. Corona wire mounting means which compensates for wire expansion due to heat. 3,457,405, 7-22-69, Cl. 250-49.5

Del Vecchio, Joseph T., to Grant Pulley and Hardware Corporation. Safety stop for slide mechanism. 3,462,203, 8-19-69, Cl. 308-3.6

DelVecchio, Leonard Patrick, Jr.; and Levine, Walter E., to Dresser Industries, Inc. Mercury switch controller. 3,482,196, 12-2-69, Cl. 337-322.

Del Vecchio, Michael, 50% to Gigliotti, Peter. Rotary tool. 3,468,073, 9-23-69, Cl. 51-170.

Del Vecchio, Michael; and Stidhams, Frederick J. Tow disk. 3,434,167, 3-25-69, Cl. 9-310.

Del Vecchio, Nicholas A., to RCA Corporation. Timing arrangement for document processor. 3,480,762, 11-25-69, Cl. 235-61.11

Delves, Allan Kenneth; East, Anthony Julian; McCreath, Michael King; and Roberts, John Francis Lloyd, to Imperial Chemical Industries Limited. Sulfonate modified copolyesters containing amines. 3,471,446, 10-7-69, Cl. 260-75.

Delworth, Secord, Meagher and Associates: *See—*
Bell, Rodney P., 3,453,509.

De Lynn, Victor. Collapsible closet-forming structure. 3,425,763, 2-4-69, Cl. 312-258.

Delzenne, Gerard Albert: *See—*
Laridon, Urbain Leopold; and Delzenne, Gerard Albert,3,427,161.
Laridon, Urbain Leopold; and Delzenne, Gerard Albert,3,455,689.
Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Mader, Helmut,3,467,518.

Delzenne, Gerard Albert, to Gevaert-Agfa, N.V. Photochemical cross-linking of polymers. 3,457,073, 7-22-69, Cl. 96-35.1

Delzenne, Gerard Albert; and Laridon, Urbain Leopold, to Gevaert-Agfa N.V. Photopolymerization of ethylenically unsaturated organic compounds using a carboxylic dithiocarbamic anhydride as a photoinitiator. 3,429,795, 2-25-69, Cl. 204-159.24

Delzenne, Gerard Albert; and Laridon, Urbain Leopold, to Gevaert-Agfa N.V. Photochemical cross-linking of polymers. 3,453,108, 7-1-69, Cl. 96-35.1

Delzenne, Gerard Albert; and Laridon, Urbain Leopold, to Gevaert-Agfa N.V. Photochemical cross-linking of polymers. 3,453,110, 7-1-69, Cl. 96-36.3

Demag Aktiengesellschaft: *See—*
Kampf-Emden, Gerhard, 3,469,884.
Mahringer, Karlheinz; and Langlitz, Karlheinz, 3,459,068.
Sievers, Hans, 3,425,077.
Walzel, Leopold, 3,464,686.
Weber, Hans, 3,448,680.

Demag Industrial Equipment Limited: *See—*
Horompo, Erno, 3,468,264.

Demag-Lauchhammer, Maschinen -und Stahlbau GmbH: *See—*
Heitzer, Heinrich, 3,475,842.

De Maio, Peter. Plumbing tools. 3,468,198, 9-23-69, Cl. 81-55.

DeMair, William M., to Wallace & Tiernan, Inc. Indicator element follower structure. 3,465,596, 9-9-69, Cl. 73-432.

De Mair, William M.; and Strauss, Theodore R., to Wallace & Tiernan Inc. Adjustable translating cam structure. 3,461,742, 8-19-69, Cl. 74-568.

Demaison, Raymond J., to Quigley Company, Inc. Multiple tube spray discharge nozzle. 3,423,029, 1-21-69, Cl. 239-565.

Demaison, Raymond J., to Quigley Company, Inc. Method of concurrently operating furnaces of the acid or basic converter types. 3,460,933, 8-12-69, Cl. 75-20.

de Malde', Marcello:*See—*
Marconi, Walter; Mzaaci, Alessandro; de Malde', Marcello; and Cucinella, Salvatore,3,432,516.

de Man, Heiko T., to Precision Plastics, Inc. Eyeglass hinge construction. 3,458,866, 8-5-69, Cl. 2-12.

de Man, Heiko T.; Roberts, George G.; and Nakagawa, Henry. Marine plug. 3,430,187, 2-25-69, Cl. 339-103.

Deman, Pierre J. F., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Self-tuning filter system. 3,441,861, 4-29-69, Cl. 328-165.

Deman, Pierre J. F., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Bilateral signal transmission system having a combined dynamic range control and echo suppressor arrangement. 3,462,561, 8-19-69, Cl. 179-170.4

Deman, Pierre, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Angle-modulated signal receiving system with improved noise immunity. 3,457,512, 7-22-69, Cl. 325-307.

Demanega, Marie-Josephe: *See—*
Demanega, Rodolphe, 3,462,126.

Demanega, Rodolphe, to Demanega, Marie-Josephe. Disconnectable metal upright secured to a pedestal. 3,462,126, 8-19-69, Cl. 256-65.

De Marchi, Vincent S.; Neiman, Alfred S.; and Wigton, Henry F., to Lockheed Aircraft Corporation. Process for making porous materials. 3,453,104, 7-1-69, Cl. 75-206.

De Marco, Frank. Postage stamp dispenser. 3,444,840, 5-20-69, Cl. 118-236.

De Marco, Richard E.: *See—*
Gibbons, Ambrose J., Jr.; and De Marco, Richard E.,3,431,288.

De Marco, Robert F., to Fluid Controls, Inc. Free delivery and variably restricted return valve. 3,421,545, 1-14-69, Cl. 137-513.3

Demarcq, Michel Charles, to Ugine Kuhlmann, (Societe Anonyme), mesne. Manufacture of phosphorous acid. 3,458,281, 7-29-69, Cl. 23-165.

Demarcq, Michel Charles; and Sleziona, Joseph-Joachim, to Ugine Kuhlmann, (Societe Anonyme). Esters of pentavalent phosphorus acids and production thereof. 3,453,348, 7-1-69, Cl. 260-963.

De Mare, Baltzar Leo, to United States of America, Army. Electric myodynamometer. 3,442,132, 5-6-69, Cl. 73-379.

Demaree, John E.: *See—*
Howard, JoAnn; and Demaree, John E.,3,462,080.

Demarest, Donald M., to General Electric Company. Static power converter with variable commutation reactance. 3,487,287, 12-30-69, Cl. 321-9.

Demarest, Douglas M., to Demarest Machine, Inc. Bricklaying machine. 3,438,171, 4-15-69, Cl. 52-749.

Demarest, Henry M., Jr., to PPG Industries, Inc. Load-bearing member for curved ceramic segments subjected to high compressive loads. 3,450,082, 6-17-69, Cl. 114-16.

Demarest Machine, Inc.: *See—*
Demarest, Douglas M., 3,438,171.

De Maria, Anthony J., to United Aircraft Corporation. Laser modulation by focused acoustic energy. 3,464,027, 8-26-69, Cl. 331-94.5

DeMaria, Anthony J., to United Aircraft Corporation. Angle measuring apparatus utilizing lasers. 3,485,559, 12-23-69, Cl. 356-138.

De Maria, Francesco: *See—*
Duffy, Richard Joseph; and De Maria, Francesco,3,483,286.

De Maria, John; and Bentzinger, Harlan A., to Chemical Products Corporation. Vacuum chuck. 3,463,476, 8-26-69, Cl. 269-21.

De Marinis, Joseph V.; and Scott, Benton B., to Sylvania Electric Products, Inc. Automatic gain control circuit. 3,450,834, 6-17-69, Cl. 178-7.3

De Mars, Alfred J., 1/2 to Strand, Albert T. Vehicle stabilizer. 3,423,099, 1-21-69, Cl. 280-6.

Demars, Paul: *See—*
Duboz, Georges; and Demars, Paul,3,470,346.

Demas, Harry J.: *See—*
Collingwood, George H.; Demas, Harry J.; and Bryant, George F.,3,460,336.

Demas, Nickolas P., to Wagner Electric Corporation, mesne. Method for gettering completed gas filled lamps and the product resulting therefrom. 3,441,332, 4-29-69, Cl. 316-26.

De Mattia, Albert C. Navigational plotting and calculating device. 3,431,650, 3-11-69, Cl. 33-1.

de Mattos, Jorge J. Hose control device. 3,473,738, 10-21-69, Cl. 239-513.

de May, Gwilym Mansell, to Smith, Hayden & Company Limited. Selective soapy water or clean water dispenser. 3,439,698, 4-22-69, Cl. 137-268.

Dembinski, George W.: *See—*
Sinfelt, John H.; Barnett, Allan E.; and Dembinski, George W.,3,442,973.

Dembinski, Jerzy: *See—*
Sinfelt, John H.; Taylor, William F.; and Dembinski, Jerzy,3,421,870.

Demee, Charles: *See—*
Kerr, Hugh H., III; and Demee, Charles,3,426,452.

Demeester, Jacques Emile; and Helion, Raymond, to British Petroleum Company Limited, The. Refining of wax. 3,475,320, 10-28-69, Cl. 208-27.

Dement, Richard H., to U.S. Plywood-Champion Papers Inc. Frame structure for container. 3,485,405, 12-23-69, Cl. 217-65.

de Meo, Attilio A.: *See—*
Lofrisco, Leonard A.; de Meo, Attilio A.; and Walter, Gerard O.,3,478,254.

Demerciere, Jean. Commutators of rotary electric machines. 3,450,914, 6-17-69, Cl. 310-236.

Demers, Harlan J., to Koppers Company, Inc. Concealed hanging system. 3,423,899, 1-28-69, Cl. 52-721.

De Mesquita, Seymour: *See—*
Grandy, Andrew J.; Spinelli, Angelo S.; De Mesquita, Seymour; and Batezell, Alfred P.,3,465,463.

Demeur, Jean, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Circuit capable of producing a condition of incompatibility between two or several logic variables. 3,428,822, 2-18-69, Cl. 307-88.

De Mey, Charles F., II., to Perkin-Elmer Corporation, The. Self-adjusting slit mechanism. 3,451,744, 6-24-69, Cl. 350-271.

De Meyer, Alfons Jozef: *See—*
Tavernier, Bernard Hippoliet; and De Meyer, Alfons Jozef,3,438,748.
De Meyere, Edwin August: *See—*
De Smedt, Felix Frederik; Marinus, Victor Alois; and De Meyere, Edwin August,3,456,293.
Demi, Roy C., to Robertshaw Controls Company. Snap-in index pointer for thermostat valves and the like. 3,421,474, 1-14-69, Cl. 116-133.
Demi, Roy C., to Robertshaw Controls Company. Lever and fulcrum pin arrangement for a control device or the like. 3,462,079, 8-19-69, Cl. 236-99.
De Michael, Frank: *See—*
Whitaker, Watford C.; and De Michael, Frank,3,424,188.
Deming, Andrew F., to Consolidated Electronics Industries Corporation. Servomotor control system moved with selector device. 3,467,901, 9-16-69, Cl. 318-18.
Deming, Andrew F., to Consolidated Electronics Industries Corporation. Voltage compensation circuit for light and heavy load currents. 3,471,707, 10-7-69, Cl. 307-41.
Deming, Roy: *See—*
Brenkert, Wayne D.; and Deming, Roy,3,454,276.
Demler, Henry William, Sr., to AMP Incorporated. Tubular connection device. 3,476,412, 11-4-69, Cl. 285-322.
Demler, Walter Robert: *See—*
Dien, Chi Kang; and Demler, Walter Robert,3,446,810.
Demner, Howard. Cosmetic removal pad. 3,472,242, 10-14-69, Cl. 132-1.
Demol, Pierre; and Mathis, Pierre, to Solvay & Cie. Plural coated waterproof support. 3,476,587, 11-4-69, Cl. 117-76.
Demol, Pierre: *See—*
Mathis, Pierre; and Demol, Pierre,3,432,340.
de Montebello, Roger Lannes. Optical dissector. 3,428,393, 2-18-69, Cl. 352-43.
De Montebello, Roger Lannes. Three-dimensional optical display apparatus. 3,462,213, 8-19-69, Cl. 352-86.
De Monterey, Francis G. A., to Mobil Oil Corporation. Modified siloxane polymers and compositions containing same. 3,450,736, 6-17-69, Cl. 260-448.2
de Montmollin, Jean Pierre: *See—*
Leclercq, Rene, 3,475,595.
De Montmollin, Rene, to Ciba Limited. Fibre-reactive azo dyestuffs. 3,449,317, 6-10-69, Cl. 260-161.
De Moss, Alan D.; and Leavitt, Frank V. Rail clamp. 3,458,131, 7-29-69, Cl. 238-263.
DeMott, Alfred E.; and Miller, Ronald E., to General Electric Company. Can opener. 3,439,417, 4-22-69, Cl. 30-4.
De Mott, Donald N.: *See—*
Burk, George A.; and De Mott, Donald N.,3,456,041.
De Mott, Donald N., to Procter & Gamble Company, The. Conversion of hydroxyalkanesulfonates and alkenesulfonates to carboxylates. 3,471,535, 10-7-69, Cl. 260-413.
Dempsey, James Joseph, to Du Pont de Nemours, E. I. and Company. Softening non-woven fabrics. 3,427,376, 2-11-69, Cl. 264-282.
Dempsey, James Joseph; and Lee, Chi-Chang, to Du Pont de Nemours, E. I., and Company. Process for treating film-fibril sheets. 3,478,141, 11-11-69, Cl. 264-284.
Dempsey, Martin J.: *See—*
Rackoff, Selwyn R.; and Dempsey, Martin J.,3,432,902.
Rackoff, Selwyn R.; and Dempsey, Martin J.,3,435,499.
Dempster Brothers, Inc.: *See—*
Kellaway, Thomas Henry; and Thomas Henry, 3,454,175.
Dempster, Harry E. Method of fabricating a concrete flotation pier. 3,426,109, 2-4-69, Cl. 264-34.
Dempster Industries, Inc.: *See—*
Hlinka, Edward A., 3,477,384.
Tangeman, Lawrence N.; and Williams, Warren W., 3,477,385.
Demsey, John N.; and Heffran, Vernon C., to Aluminum Company of America. Coated sheet metal and method of forming the same. 3,478,554, 11-18-69, Cl. 72-46.
Demura, George N.: *See—*
D'Zmura, Cornelius J., 3,452,985.
De Mura, George N. Waterproof ventilator for boat windshields. 3,440,945, 4-29-69, Cl. 98-37.
De Murio, Michael P.: *See—*
Granatek, Alphonse P.; and De Murio, Michael P.,3,459,858.
De Muth Steel Products Company: *See—*
Weihnuller, Walter N., 3,466,095.
Demyon, Thomas R. Radiator sight gauges. 3,434,346, 3-25-69, Cl. 73-334.
Den Herder, Marvin J.; and Borg, Arthur C., to Standard Oil Company (Indiana). Reaction products of sulfurized polybutenes and triglycerides. 3,455,896, 7-15-69, Cl. 260-125.
Den Hollander, Charles William, to Hoffmann-La Roche Inc. Reduced palladium metal on ferric compound substrates hydrogenation catalysts. 3,448,059, 6-3-69, Cl. 252-443.
Den Hollander, Charles William, to Hoffmann-La Roche Inc. Certain 2-halo-3-pyridyl anthranils. 3,448,113, 6-3-69, Cl. 260-296.
Den-Tal-Ez Chair Manufacturing Co.: *See—*
Naughton, John L., 3,472,488.
Naughton, John L., 3,486,728.
De Nagel, Stephen F., to General Motors Corporation. Dual stage accumulator type fuel injector. 3,442,451, 5-6-69, Cl. 239-96.
De Nardo, Frank: *See—*
Cohn, Irving H.; and De Nardo, Frank,3,463,980.
Denaro, James J. Stroboscope mirror device. 3,449,035, 6-10-69, Cl. 350-7.
Denault, Albert P.; Gruber, Lawrence H.; and Morton, Kenneth O., to Cluett, Peabody, & Co., Inc. Apparatus for folding and pressing garment parts. 3,478,939, 11-18-69, Cl. 223-38.
Dence, Donald S.; and Frost, Barry L., to Clark Equipment Company. Hydraulic-motor-in-wheel assembly. 3,439,766, 4-22-69, Cl. 180-66.
Dendel, Gerald F.: *See—*
Louks, Robert A.; and Sietmann, Vernon H., 3,456,652.
Sietmann, Vernon H., 3,479,748.
Deneke, Karl-Heinz. Vending device for pins, needles, hardware or the like. 3,463,308, 8-26-69, Cl. 206-78.
Denend, Frank G., to Bell Telephone Laboratories, Incorporated. Switching system testing. 3,446,921, 5-27-69, Cl. 179-175.23
Denes, Frank: *See—*
Hamori, Julius Arpad; and Denes, Frank,3,461,776.
Denes, Peter A. Cooling arrangement for high frequency low pass filters. 3,427,577, 2-11-69, Cl. 336-61.
Denes, Peter A. Method of making a miniature magnetic core memory array. 3,435,518, 4-1-69, Cl. 29-604.
Denes, Peter A. High frequency low pass filter. 3,456,215, 7-15-69, Cl. 333-79.
Denger, George P., to Automatic Timing & Controls, Inc. Light integrating circuit with current producing photosensitive cell in the bridge circuit. 3,458,770, 7-29-69, Cl. 317-140.
Dengler, Daniel D., to Goodyear Tire & Rubber Company, The. Tank cover. 3,422,885, 1-21-69, Cl. 165-72.
Deni, Frank; Putnam, Eric F.; and White, Lynn G., to Unittool Punch & Die Co., Inc. Punch and die unit. 3,461,762, 8-19-69, Cl. 83-143.
De Nicola, Joseph Peter, to Instron Corporation. Recorder using pressurized ballpoint pen. 3,435,459, 3-25-69, Cl. 346-140.
Denig, Fred; and Powers, Robert E., to Koppers Company, Inc. Method and apparatus for treating metallurgical furnace gases. 3,480,427, 11-25-69, Cl. 75-43.
Deninson, Jacob Z.; and Deninson, Joseph H. Scanning assembly for producing animated images. 3,480,352, 11-25-69, Cl. 352-81.
Deninson, Joseph H.: *See—*
Deninson, Jacob Z.; and Deninson, Joseph H.,3,480,352.
Denis, Albert P., to Denis, Robert B. Device for removing broken studs. 3,439,567, 4-22-69, Cl. 81-53.
Denis, Jean-Claude: *See—*
Cahn, Jean; and Denis, Jean-Claude,3,433,875.
Denis, Jean, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Resistance Welding machine. 3,430,027, 2-25-69, Cl. 219-81.
Denis, Jean; and Darees, Michel, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Method for use of machines carrying out spot welding in an inert atmosphere. 3,487,195, 12-30-69, Cl. 219-127.
Denis, Robert B.: *See—*
Denis, Albert P., 3,439,567.
Denisen, Ervin L.: *See—*
Buchele, Wesley F.; and Denisen, Ervin L.,3,460,332.
Denison, Dean R.: *See—*
Bills, Daniel G.; Denison, Dean R.; and Warren, Keith A.,3,427,432.
Denison, James W., Jr., to Trak Microwave Corporation. Method of making cathodes by neutron bombardment. 3,425,111, 2-4-69, Cl. 29-25.17
Denison, Mathew R.: *See—*
Ziemer, Richard W.; and Denison, Mathew R.,3,459,205.
Denk, Hans: *See—*
Bittorf, Hannjorg; Denk, Hans; and Wolfram, Roland,3,483,418.
Kleeberg, Wolfgang; Denk, Hans; and Hauschildt, Klaus-Robert,3,438,909.
Denk, Richard, to Agfa-Gevaert Aktiengesellschaft. Photographic camera for use with detachable flash units. 3,469,514, 9-30-69, Cl. 95-11.
Denk, Richard: *See—*
Winkler, Alfred; and Denk, Richard,3,469,906.
Denk, Walter: *See—*
Kramer, Hans Bernhard Adolf; Messwarb, Gunter; and Denk, Walter,3,420,805.
Denker, James Melvin, to Instron Corporation. Laminated valve structure. 3,452,773, 7-1-69, Cl. 137-83.
Denker, Stanley D., to Doughboy Industries, Inc. Shrink tunnel with coneyer and air directing means. 3,430,358, 3-4-69, Cl. 34-222.
Denker, Stanley D., to Doughboy Industries, Inc. Sewing machine. 3,460,494, 8-12-69, Cl. 112-11.
Denki Onkyo Co., Ltd.: *See—*
Masuda, Noboru, 3,472,687.

Denlinger, John Lester: *See—*
Green, Clarence C.; and Denlinger, John Lester,3,483,963.
Denman, Robert R.: *See—*
Austin, Lewis M.; Denman, Robert R.; O'Dennell, Thomas P.; and Veres, Frank,3,484,328.
Denman, Robert R., to Owens-Illinois Inc. Strengthened crystalline article and method of making the same. 3,428,513, 2-18-69, Cl. 161-1.
Denman, Robert R., to Owens-Illinois, Inc. Method for making two-piece hollow devitrified mirror blank. 3,484,327, 12-16-69, Cl. 161-1.
Dennard, Albert E.: *See—*
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L.,3,464,860.
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L.,3,470,024.
Dennen, Russell J. Adjustable finger ring with means for maintaining adjustment. 3,433,032, 3-18-69, Cl. 63-15.65
Denner, James R., to Howson, W. H., Limited. Means for and method of applying flash and main exposures. 3,484,165, 12-16-69, Cl. 355-67.
Dennert & Pape Aristo-Werke KG: *See—*
Muller, Friedrich, 3,442,314.
Dennert, Heinz. Method and apparatus for heat-treating granulated expansible materials. 3,432,155, 3-11-69, Cl. 263-21.
Denning, David B.: *See—*
Rodermund, Robert E.; Fowler, Vance G.; and Denning, David B.,3,426,521.
Denning, Ralph Murch; Hertel, Heinrich; and Harmsen, Siegfried, to Bristol Siddeley Engines Limited. Aircraft with jet propulsion engine. 3,447,764, 6-3-69, Cl. 244-53.
Denning, Richard; and Tollin, Charles L., to RCA Corporation. Semiconductor devices and methods of manufacture thereof. 3,465,209, 9-2-69, Cl. 317-234.
Dennis, Clement O., to Super Mold Corporation of California. Stand for tire matrices. 3,438,090, 4-15-69, Cl. 18-18.
Dennis, Daniel L.; and Swendson, David L., to Edwards Laboratories, Inc. Endarterectomy instrument. 3,448,741, 6-10-69, Cl. 128-304.
Dennis, Donald I.: *See—*
Cole, Albert B., Jr.; and Dennis, Donald I.,3,483,713.
Dennis, Donald I. Blower fan. 3,464,622, 9-2-69, Cl. 230-134.
Dennis, Fred Stanley; and Skelton, William B., Jr., to Du Pont de Nemours, E. I., and Company. Process for removing crimp from polyester filamentary tow. 3,423,501, 1-21-69, Cl. 264-238.
Dennis, George E.; Robinson, Kenneth R.; and Quittenton, Richard C. Method of preparing ground cereal grains in the production of brewery mash. 3,443,958, 5-13-69, Cl. 99-52.
Dennis, James T. Record changer. 3,481,608, 12-2-69, Cl. 274-10.
Dennis, Kent S., to Dow Chemical Company, The. Anionic polymerization and termination process. 3,458,491, 7-29-69, Cl. 260-94.2
Dennis, Louis E., to Beloit Corporation. Headbox of a papermaking machine. 3,434,923, 3-25-69, Cl. 162-337.
Dennis, Paul A. Analog computer. 3,439,156, 4-15-69, Cl.
Dennison, Clifford A., to Pemco, Inc. Apron conveyor tank wiper. 3,426,770, 2-11-69, Cl. 134-104.
Dennison Manufacturing Company: *See—*
Baines, Harry A.; and Flood, Carl A., 3,483,063.
Bone, Arnold R., 3,444,597.
Bone, Arnold R., 3,470,834.
Elmer, William B., 3,428,397.
Elmer, William B., 3,471,231.
Ferrarini, Louis James; Homonoff, Harold J.; and Nelson, George R., 3,469,979.
Gordon, George F., 3,457,589.
Hastings, Dana B.; and Cederbaum, Laurence R., 3,467,469.
Kennedy, Robert M., Jr., 3,420,364.
Merser, Francis G., 3,422,499.
Merser, Francis G., 3,462,802.
Merser, Francis G., 3,462,864.
Raczynski, Walter A.; and White, Kenneth J., 3,425,778.
Sloan, Donald D., 3,427,106.
Sloan, Donald D., 3,445,047.
Sloan, Donald D.; and Polley, Robert W., 3,450,474.
Sloan, Donald D., 3,469,563.
Sloan, Donald D., 3,469,916.
Sloan, Donald D., 3,472,364.
Tosti, William P., 3,431,051.
Watts, William Carrigan, 3,481,460.
White, Kenneth J., 3,425,777.
White, Kenneth J., 3,469,913.
Denny, Douglas Frank, to Bell's Medical Products Limited, mesne. Gaseously formed curtains. 3,462,920, 8-26-69, Cl. 55-413.
Denny, James M.; and Carlsson, Sven A., to Security Aluminum Company. Building construction with intersecting walls. 3,440,785, 4-29-69, Cl. 52-275.
Denny, Jere Robert; and Krishnaswamy, Deenahalli S., to Kennecott Copper Corporation. Gas injection to leach precipitation process. 3,457,065, 7-22-69, Cl. 75-109.
Denoyer, Donald B.; and Beachler, Edward D., to Beloit Corporation. Table roll. 3,443,295, 5-13-69, Cl. 29-116.
De Noyer, Donald B.; and Hess, Loyal H., to Beloit Corportion. Table roll mounting. 3,424,651, 1-28-69, Cl. 162-354.
Densen, Paul: *See—*
Greene, Abbot; and Densen, Paul,3,477,633.
Greene, Abbot; and Densen, Paul,3,485,435.
Denslow, Keith R., to Dow Chemical Company, The. Method and apparatus for superatmospheric prefoaming of expandable synthetic resinous particles. 3,428,720, 2-18-69, Cl. 264-51.
Denslow, Keith R.: *See—*
Skochdopole, Richard E.; and Denslow, Keith R.,3,425,965.
Densmore, D. J., Company, The: *See—*
Wood, Edward H., 3,440,683.
Densmore, Neal W. Trim chain assembly for drum cutter miner. 3,436,122, 4-1-69, Cl. 299-73.
Denson, John Michael: *See—*
Simon, Hermann; Vohralik, Vaclav; Denson, John Michael; and Farey, Keith Horace,3,473,990.
Denson, Richard E. Barber shop advertising display. 3,462,866, 8-26-69, Cl. 40-33.
Denss, Rolf; Rye, Hugo; and Prins, Daniel A. 4-Piperidine-P-fluorobutyrophenones and related compounds. 3,424,755, 1-28-69, Cl. 260-293.4
Denss, Rolf: *See—*
Kuhnis, Hans Herbert; Ryf, Hugo; and Denss, Rolf,3,456,060.
Meisels, Alex; Denss, Rolf; and Ryf, Hugo,3,479,361.
Meisels, Alex; Denss, Rolf; and Ryf, Hugo,3,479,363.
Taub, William; Denss, Rolf; and Ostermayer, Franz,3,459,865.
Dent, Benjamin A.: *See—*
Barton, Robert S.; Creech, Bobby A.; Dent, Benjamin A.; Hauck, Erwin A.; and McKeeman, William M.,3,461,434.
Dent, Frederick James, to Gas Council, The. Production of combustible gases. 3,441,395, 4-29-69, Cl. 48-214.
Dent, Frederick James; Thompson, Brian Hoyle; and Conway, Henry Lawrence, to Gas Council, The. Process and apparatus for performing chemical reactions. 3,484,219, 12-16-69, Cl. 48-102.
Dental Orthopedics, Inc.: *See—*
Schwartz, Robert; and Cooperman, Harry N., 3,465,443.
Dentek, Inc.: *See—*
Strauss, Walter S.; and Shedlarski, George A., 3,476,181.
Denti, Francesco: *See—*
Mazzolini, Corrado; and Denti, Francesco,3,424,833.
Polacco, Ezio; and Denti, Francesco,3,444,682.
Dentin Manufacturing Company: *See—*
Fossier, Ralph L.; and Kruissink, John W., 3,450,593.
Dentists' Supply Company of New York, The:*See—*
Bresnahan, Robert A., 3,433,320.
Connan, George Bruce, 3,449,832.
Connan, George Bruce, 3,453,349.
Halpern, Benjamin David; and Semmelman, John O., 3,423,828.
Halpern, Benjamin David; and Semmelman, John O., 3,423,829.
Halpern, Benjamin David; and Semmelman, John O., 3,423,830.
Semmelman, John O., 3,423,831.
Denton, Don E., Jr., to Brown Engineering Company, mesne. Microelement carrier-connector. 3,447,040, 5-27-69, Cl. 317-101.
Denton, Eric B.; and Sessinghaus, Desmond F., to Weyerhaeuser Company. Retractable belt pulley system. 3,486,606, 12-30-69, Cl. 198-165.
Denton, Ivor Edison, to United Kingdom Atomic Energy Authority. Ceramic fuel materials. 3,442,762, 5-6-69, Cl. 176-69.
Denton, Richard T., to Bell Telephone Laboratories, Incorporated. Polychromatic beam deflection. 3,462,212, 8-19-69, Cl. 350-160.
Denton, Richard T.; and Varnerin, Lawrence J., Jr., to Bell Telephone Laboratories, Incorporated. Solid state image translator. 3,435,234, 3-25-69, Cl. 250-209.
Denton, William I.: *See—*
Cimerol, Joseph J.; Clarke, William M.; and Denton, William I.,3,431,085.
D'Entremont, Franklin R., to General Electric Company. Terminal enclosure for transformer. 3,457,360, 7-22-69, Cl. 174-138.
D'Entremont, Franklin R., to General Electric Company. Coil winding form. 3,480,229, 11-25-69, Cl. 242-118.4
D'Entremont, John Raymond, to Texas Instruments, Incorporated. Compact thermostatic snap switch with heater for protection of motor windings and the like. 3,453,577, 7-1-69, Cl. 337-89.
Dentsply International Inc.: *See—*
Saffir, Jacob A., 3,469,318.
Stram, George H., 3,482,313.
Dentz, Albert O. Hood actuated warning device for motor vehicles. 3,436,726, 4-1-69, Cl. 340-52.
De Nunzio, Herman A.: *See—*
Klinger, Stephen R.; De Nunzio, Herman A.; and Chryssopoulos, Demosthenis,3,487,390.
Denver Burglar Alarm Products, Inc.: *See—*
Stroh, Donald G., 3,462,752.
Denver Fire Clay Company, The: *See—*
Saiki, Hiroshi, 3,476,368.
Denver Plastics, Inc.: *See—*
Kusserow, Howard F., 3,473,686.

Denver Spring Service, Inc.: *See—*
King, Louis J.; and King, Ronald M., 3,448,994.
Denver, William J. Dip stick guide and wiper. 3,460,181, 8-12-69, Cl. 15-210.
Denyes, Richard T. Hose clamp. 3,426,401, 2-11-69, Cl. 24-278.
Denyes, Russell Owens; and Santangelo, Joseph Germano, to Celanese Corporation. False twisting. 3,470,583, 10-7-69, Cl. 18-8.
Denys Fisher Group Limited: *See—*
Fisher, Denys, 3,465,445.
Denys, Pierre: *See—*
De Somer, Pierre; Denys, Pierre; and Leyten, Roger,3,438,859.
Deo, Narsingh, to Burroughs Corporation. Perforated tape reader having light absorbent tube between tape and light sensor. 3,465,160, 9-2-69, Cl. 250-219.
De Oude, Nicolaas T.: *See—*
Roald, Arnvid S.; and De Oude, Nicolaas T.,3,451,935.
De Palma, Joseph S. Automatic portable fire extinguisher. 3,452,819, 7-1-69, Cl. 169-27.
De Palma, Ted V.: *See—*
Hughes, James C.; and De Palma, Ted V.,3,481,317.
De Paolo, George Robert: *See—*
van Loo, William Julius, Jr.; and De Paolo, George Robert,3,424,680.
De Paolo, Salvatore J.: *See—*
Florek, Edward J.; De Paolo, Salvatore J.; O'Hare, Thomas F.; Haefeli, John E.; and Berenberg, Oscar,3,482,231.
de Parry, Theodore, to United States of America, Atomic Energy Commission. High-frequency, wide-band transformer. 3,453,574, 7-1-69, Cl. 336-182.
De Pass, Ernest T.; and Cook, Thomas J.P., to Union Camp Corporation. Injection molding apparatus for making composite paper-plastic lids and method. 3,463,845, 8-26-69, Cl. 264-90.
De Pauw, Francis E., to Bell Aerospace Corporation. Hydraulic flow limiting device. 3,420,265, 1-7-69, Cl. 137-501.
De Pauw, Richard A.; and Knapp, William H., to International Harvester Company. Feeder hitch. 3,479,804, 11-25-69, Cl. 56-21.
De Pauw, Richard A.; and Knapp, William H., to International Harvester Company. Tailings return. 3,482,577, 12-9-69, Cl. 130-27.
De Pauw, Richard A.: *See—*
Knapp, William H.; and De Pauw, Richard A.,3,470,881.
Knapp, William H.; Gochanour, Caroll Q.; and De Pauw, Richard A.,3,464,419.
Rowland-Hill, Edward William; De Pauw, Richard A.; and Karlsson, Elof K.,3,481,342.
de Pelichy, Reginald: *See—*
Voedisch, Robert W.; and de Pelichy, Reginald,3,455,856.
De Penti, Kenneth L.: *See—*
Metzger, William J.; and De Penti, Kenneth L.,3,433,369.
Metzger, William J.; and De Penti, Kenneth L.,3,438,512.
de Perczel, Desi, to Borg-Warner Corporation. Angular speed change sensor. 3,435,164, 3-25-69, Cl. 200-61.46
De Pew, Chester C. Handicapping device for sulky wheels. 3,455,415, 7-15-69, Cl. 188-17.
DePew, Chester C., to Tridair Industries. Filler cap assembly. 3,476,285, 11-4-69, Cl. 220-25.
De Pietro, Anthony J. Hinge joint for dental articulator. 3,478,431, 11-18-69, Cl. 32-32.
De Pizzol, Armand L. Document identification and protection system. 3,447,818, 6-3-69, Cl. 283-7.
Deplante, Henri, to Avions Marcel Dassault. Control transmission device for variable- geometry aircraft. 3,426,983, 2-11-69, Cl. 244-46.
Deplante, Henri, to Avions Marcel Dassault. Telescopic tubes. 3,466,062, 9-9-69, Cl. 285-165.
Deplante, Henri, to Avions Marcel Dassault. Movable obturator device between airfoils and the airframe of variable geometry aircraft. 3,481,562, 12-2-69, Cl. 244-46.
Deplante, Henri, to Avions Marcel Dassault. Articulated telescopic piping systems. 3,486,773, 12-30-69, Cl. 285-136.
Depmer, Wilhelm. Method and apparatus for the extraction of oil from cottonseed. 3,432,529, 3-11-69, Cl. 260-412.4
Depmer, Wilhelm. Method of pelleting hops and then solvent extracting. 3,441,416, 4-29-69, Cl. 99-50.5
Depmer, Wilhelm. Cell type solvent extractor. 3,447,909, 6-3-69, Cl. 23-269.
Depmeyer, Lothar; and Wittneben, Hermann, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,481,385, 12-2-69, Cl. 152-360.
Depoorter, Henri; and Libeer, Marcel Jan, to Gevaert-Agfa N.V. Methine dyes for optical sensitization of silver halides and photoconductive zinc oxide. 3,455,684, 7-15-69, Cl. 96-1.7
Depoorter, Henri; and Libeer, Marcel Jan, to Gevaert-Agfa N.V. Light-sensitive element containing methine dyes. 3,476,558, 11-4-69, Cl. 96-1.7
Depoorter, Henri; Nys, Jean Marie; and Van Dormael, Andre Emile, to Gevaert Photo-Producten N.V. Methine dyes containing tricyanoalkyl- substituted phosphorus. 3,438,994, 4-15-69, Cl. 260-304.
De Poorter, Henri; and Libeer, Marcel Jan, to Gevaert-Agfa N.V. Light-sensitive compositions containing methine dyes having a benzothiazole nucleus substituted with a sulfonamido group. 3,438,774, 4-15-69, Cl. 96-1.7
Depoorter, Henri: *See—*
Libeer, Marcel Jan; and Depoorter, Henri,3,468,661.
de Poray, Marcel C. K. Display apparatus. 3,464,133, 9-2-69, Cl. 40-130.
Depoutot, Roger: *See—*
Flaks, Simon; and Depoutot, Roger,3,458,775.
de Pradenne, Henri Vayson, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Insulating varnishes based on methylol diphenyloxides. 3,442,846, 5-6-69, Cl. 260-30.4
Deprez, Robert F.: *See—*
Tone, Frederick F.; Deprez, Robert F.; and Edelman, Robert I.,3,466,440.
De Priest, Joseph Roy, to Servo Corporation of America, mesne. Vocal counter circuit. 3,426,181, 2-4-69, Cl. 235-92.
De Prisco, Carmine F., to Aeroprojects Incorporated. High frequency, high power source solid state inverter. 3,460,025, 8-5-69, Cl. 321-43.
DePrisco, Carmine F., to Aeroprojects Incorporated. High-power high-frequency switch. 3,467,832, 9-16-69, Cl. 307-41.
Deptuch, Kazimierz J., to Automatic Electric Laboratories, Inc. Arrangement for producing asymmetric bipolar pulses. 3,427,467, 2-11-69, Cl. 307-88.
Deptula, Frank J.: *See—*
Hanson, Rudolph A.; and Deptula, Frank J.,3,445,991.
De Pung, Gary L.; and Haddock, Louis A., Jr., to Clark Equipment Company. Safety device for a vehicle. 3,477,539, 11-11-69, Cl. 180-91.
Deputy, Marshall P. Apparatus for penetrating fog with a light beam. 3,426,189, 2-4-69, Cl. 240-46.07
De Puy, Charles H.; and Rider, Harold D., to Marathon Oil Company. High selectivity process for the chlorination of methylbenzenes. 3,442,960, 5-6-69, Cl. 260-651.
De Puy, Charles H.: *See—*
Hall, David W.; and De Puy, Charles H.,3,481,986.
De Puy, Robert P., to General Electric Company. Electric pulse multiplying and steering circuit. 3,452,265, 6-24-69, Cl. 321-5.
DePuy, Robert P., to General Electric Company. Spiral coil comprising a tubular blank with parallel, rectilinear cuts therein. 3,466,743, 9-16-69, Cl. 29-602.
De Raedt, Egide Jacob Hendrik; De Bruyne, Georges Pieter Adolf Mathildis; and Staelens, Sylvere Jules, to International Standard Electric Corporation. Automatic telecommunication switching system. 3,487,172, 12-30-69, Cl. 179-18.
de Ratuld, Yves; and Werner, Georges, to Rhone-Poulenc S.A. Antiviral canine vaccine and process for making the same. 3,462,526, 8-19-69, Cl. 424-90.
Derbfuss, Wolfgang, to M. A. N. Turbo GmbH. Control transmission. 3,424,024, 1-28-69, Cl. 74-480.
Derby, Marshall J.: *See—*
Cohen, Saul M.; and Derby, Marshall J.,3,438,845.
Cohen, Saul M.; and Derby, Marshall J.,3,438,846.
Derby, Marshall T., to California Industrial Products, Inc. Yielding nut retainer. 3,426,818, 2-11-69, Cl. 151-41.75
Derby, Marshall T., to California Industrial Products, Inc. Cap nut. 3,457,824, 7-29-69, Cl. 85-35.
Derby, William G.; and Nowell, John R., to General Electric Company. Synchronized timing system for data processing. 3,443,070, 5-6-69, Cl. 235-92.
Derbyshire, Charles E.; and Andersen, Frank T., to General Electric Company. Electrical inductive apparatus with clamping and airgap adjusting frame. 3,436,707, 4-1-69, Cl. 336-134.
Derbyshire, Charles E.; Mees, Robert D.; and Mittermaier, Armin F., to General Electric Company. Dry type transformer and improved enclosure assembly therefor. 3,467,929, 9-16-69, Cl. 336-61.
Derbyshire, John, Jr.; Pollack, Isidore; and Pawloski, Victor A., to North American Rockwell Corporation. Dye penetrant. 3,425,950, 2-4-69, Cl. 252-301.2
Derbyshire, Rodney L.; and Griffith, Roland K., to Raychem Corporation. Method for making heat-shrinkable cap. 3,448,182, 6-3-69, Cl. 264-22.
Derbyshire, Stephen W., to Charlotte Chemical Laboratories, Inc.Electrically stabilized ferroelectric compositions of perovskite lattice structure ($BaTi_3O$ plus Mn impurities) and method of making the same. 3,472,776, 10-14-69, Cl. 252-62.9
D'Ercole, Augustine; Krias, Aristides; and Tewey, Robert, to General Foods Corporation. Process for preparing rice dessert composition. 3,467,528, 9-16-69, Cl. 99-139.
D'Ercoli, Giacinto C.:*See—*
Burns, Fredrick B.; D'Ercoli, Giacinto C.; and Mlachnik, Albert A.,3,473,183.
Derderian, George; and Klaiber, Robert J., to United States of America, Navy. Laser beam deflector. 3,436,546, 4-1-69, Cl. 250-199.
Deregnaucourt, Jacques V., to Northern Electric Company Limited. Error correcting circuit. 3,437,996, 4-8-69, Cl. 340-146.1

Deregnaucourt, Jacques V., to Northern Electric Company Limited. Encoder. 3,447,147, 5-27-69, Cl. 340-347.
Dereich, John E., to Neville Chemical Company. Cold color printing compositions. 3,468,835, 9-23-69, Cl. 260-33.4
De Remer, James E.; Herringshaw, Tobias J.; and Parent, John W., to Continental Aviation and Engineering Corporation. Packaging. 3,451,534, 6-24-69, Cl. 206-46.
De Renzo, Edward Clarence: *See—*
Buck, Francis Fremonte; and De Renzo, Edward Clarence,3,434,929.
Derenzo, Edward Clarence; and Bell, Paul Hadley, to American Cyanamid Company. Process for purifying streptokinase. 3,444,045, 5-13-69, Cl. 195-66.
Deretchin, David R.: *See—*
Smith, Donald F.; Russell, James; and Deretchin, David R.,3,454,419.
Dereymaeker, Joseph Julien: *See—*
De Vuyst, Hugo Richard Natalis; and Dereymaeker, Joseph Julien,3,486,163.
Derfer, John M.: *See—*
Bordenca, Carl; and Derfer, John M.,3,446,843.
Bordenca, Carl; Derfer, John Mentzer; and Hamby, Clayton B.,3,420,910.
Derfer, John M., to SCM Corporation, mesne. Terpene resin compositions. 3,466,267, 9-9-69, Cl. 260-80.7
Derham, Leslie Jack, to Imperial Smelting Corporation (N.S.C.) Limited. Apparatus for refining impure metals. 3,448,972, 6-10-69, Cl. 266-37.
Derham, Leslie Jack, to Imperial Smelting Corporation (N.S.C.) Limited. Apparatus for purifying metals and recovery of metal products therefrom. 3,448,973, 6-10-69, Cl. 266-37.
Derham, Leslie Jack, to Imperial Smelting Corporation(N.S.C.) Limited. Method of purifying metals and recovery of metal products therefrom. 3,449,116, 6-10-69, Cl. 75-10.
Derham, Leslie Jack, to Imperial Smelting Corporation (N.S.C.) Limited. Method of purifying metals and recovery of metal products therefrom. 3,449,117, 6-10-69, Cl. 75-10.
de Ridder, Rene R., to Manufacture de Produits Pharmaceutiques a Christiaens Societe Anonyme. Fluoreno-[1,9-ef]-1,4-diazepine-1-oxides and 1,3- diazafluoroanthene-1-oxides. 3,466,274, 9-9-69, Cl. 260-239.
Deringer, Wayne A., to Smith, A. O., Corporation. Method of forming glass coated steel articles. 3,465,424, 9-9-69, Cl. 29-527.2
Derippe, Jean Marie, to Compagnie Generale d'Electricite. Housing construction for multiple tap transformer. 3,448,422, 6-3-69, Cl. 336-94.
Derippe, Jean-Marie; and Aumont, Pierre Maurice, to Alsthom-Savoisienne. Current transformer. 3,454,915, 7-8-69, Cl. 336-60.
Deritend Engineering Company Limited, The: *See—*
Bishop, Thomas D., 3,448,646.
Bishop, Thomas D., 3,479,931.
Bishop, Thomas Desmond,, 3,443,490.
Bishop, Thomas Desmond, 3,454,271.
De Ritter, Elmer; and Raymond, Joseph Edward, to Hoffmann-La Roche, Inc. Palatable, free-flowing, non-agglomerating caffeine powder. 3,433,872, 3-18-69, Cl. 424-253.
de Rivaz, John Chevalley, to International Standard Electric Corporation. Damped oscillation analog to digital encoder. 3,461,450, 8-12-69, Cl. 340-347.
Derjugin, Fedor Fedorovich; Bulitko, Alexandr Denisovich; and Plakhotnikov, Grigory Ivanovich. Relay responsive to limiting changes in the level and velocity of fluids. 3,423,550, 1-21-69, Cl. 200-81.9
Dermody, William J.: *See—*
Duddy, Joseph C.; and Dermody, William J.,3,437,523.
Dermond, Franklin, to Bell Telephone Laboratories, Incorporated. Head mounting for multi-track magnetic recorder or reporducer. 3,482,060, 12-2-69, Cl. 179-100.2
Derndinger, Hans-Otto: *See—*
Bensinger, Wolf-Dieter; Derndinger, Hans-Otto; Zeilinger, Karl; Bader, Hans; and Kempin, Karl,3,481,312.
Dernier, Paul D.; and Frankel, Henry, to Allied Chemical Corporation. Self-propelled aerosol composition and method of using same to coat plates useful in thin-layer chromatography. 3,468,814, 9-23-69, Cl. 252-408.
De Robertis, Joseph, to Sealectro Corporation. Circuitry system. 3,476,983, 11-4-69, Cl. 317-101.
de Robertis, Joseph; and Genovese, David, to Sealectro Corporation. Multicontact switch. 3,470,334, 9-30-69, Cl. 200-11.
De Rochemont, John F.: *See—*
Clark, Earnest H., Jr.; De Rochemont, John F.; and Keithahn, Julian D.,3,433,303.
Salerni, John V.; and de Rochemont, John F.,3,455,380.
de Ronde, Willem, to N.V. Rubberfabriek Vredestein. Method for the manufacture of a tire. 3,459,849, 8-5-69, Cl. 264-255.
de Rooij, Abraham H., to Stamicarbon N.V. Preparation of oxime. 3,429,920, 2-25-69, Cl. 260-566.
de Rooij, Abraham H.; and Elmendorp, Jan, to Stamicarbon N.V. Process of preparing water-soluble phosphates. 3,446,583, 5-27-69, Cl. 23-109.
De Ros, Angelo: *See—*
Borbonese, Mario; De Ros, Angelo; and Pifferi, Giorgio,3,461,040.
De Rosa, Domenic J., to Leesona Corporation. Break away cam. 3,481,219, 12-2-69, Cl. 74-568.
DeRose, Ralph A., to International Telephone and Telegraph Corporation. Programming switch. 3,434,095, 3-18-69, Cl. 339-18.
DeRose, Ralph A., to International Telephone and Telegraph Corporation. Printed circuit board library rack. 3,465,891, 9-9-69, Cl. 211-41.
De Rose, Richard F. Step spacer. 3,442,306, 5-6-69, Cl. 141-368.
De Roshia, Harold A. Masking tool. 3,463,694, 8-26-69, Cl. 156-523.
de Rosset, Armand J., to Universal Oil Products Company. Polymerization process. 3,426,089, 2-4-69, Cl. 260-666.
Derosset, Armand J., to Universal Oil Products Company. Fluorided Group VIII noble metal- refractory oxide catalyst and preparation thereof. 3,457,188, 7-22-69, Cl. 252-442.
Derosset, Armand J., to Universal Oil Products Company. Fluorided refractory oxide catalyst and preparation thereof. 3,457,189, 7-22-69, Cl. 252-442.
De Rosset, Armand J.: *See—*
Skala, Hertha; Broughton, Donald B.; De Rosset, Armand J.; and Lickus, A. Gregory,3,437,601.
De Rossi, Frank; and Osterberg, Carl A., to Dexter Corporation, The. Curable coating composition and self-skinned polyurethane foam article coated with same. 3,473,951, 10-21-69, Cl. 117-72.
Derouen, Earl R., to Olin Mathieson Chemical Corporation. Method of growing oysters by using a particulate gypsum oyster bed covering. 3,430,607, 3-4-69, Cl. 119-4.
De Rousse, Dale E. Storage unit for wafer-like articles. 3,467,242, 9-16-69, Cl. 206-1.
De Rozario, Richard Maria Leonard, to Globe-Lak N.V. Connection of a girder with one or more bars angularly positioned on it. 3,485,006, 12-23-69, Cl. 52-731.
Derr, Chester B.: *See—*
Prym, Hans A.; and Derr, Chester B.,3,452,402.
Salzer, George W.; Derr, Chester B.; and Cristina, Joseph F.,3,421,615.
Derr, Elmer B., to International Harvester Company. Offcenter A-frame building structure. 3,442,057, 5-6-69, Cl. 52-90.
Derr, Lloyd J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,426,230.
Derr, Walter R., Jr.; and Davis, Francis E., Jr., to Mobil Oil Corporation. Low pressure reforming of paraffinic feed with less than 0.6 weight % PT to maintain hydrogen purity of recycle gas by moisture control. 3,474,026, 10-21-69, Cl. 208-138.
Derragon, Don C., Jr., to Motor Coach Industries, Inc. Scavenge device for refrigerant compressor systems. 3,442,439, 5-6-69, Cl. 230-24.
Derrick, Robert P.; and Eisele, Hermann, to Westinghouse Electric Corporation. Variable speed electric drive having gain compensation. 3,440,507, 4-22-69, Cl. 318-152.
Derrick, William A., to Sandusky Foundry & Machine Company. Method and apparatus for cooling and cleaning a centrifugal casting. 3,442,706, 5-6-69, Cl. 134-6.
Derrickson, Charles H.: *See—*
Green, Melvin E.; and Derrickson, Charles H.,3,460,470.
Green, Melvin E.; and Derrickson, Charles H.,3,460,471.
D'Errico, Michael Joseph; and Kulick, Russell Joseph, to American Cyanamid Company. Warm water-dilutable paste rosin size and process for the manufacture thereof. 3,433,658, 3-18-69, Cl. 106-123.
D'Errico, Michael Joseph; and Wagner, Frank Larkin, to American Cyanamid Company. Paste rosin size containing fortifying agent. 3,433,659, 3-18-69, Cl. 106-238.
Derrien, Michel: *See—*
Cosyns, Jean; Derrien, Michel; and Le Page, Jean Francois,3,472,763.
Derry, William Thomas: *See—*
Lewis, Robert Bee; and Derry, William Thomas,3,430,888.
Dersch, Fritz; and Paniccia, Sally L., to GAF Corporation. Preparation of photographic silver halide emulsions utilizing polyoxyalkylenated gelating derivatives. 3,436,220, 4-1-69, Cl. 96-94.
Dersch, Fritz; and Paniccia, Sally L., to GAF Corporation. Photographic silver halide emulsions containing trifluoromethyl-4-hydroxy quinoline carboxy acid salt as a stabilizer. 3,446,618, 5-27-69, Cl. 96-66.5
Dersch, Fritz; and Welsh, John A., to GAF Corporation. Dehydrodithizone and mercaptotetrazolium salts as silver halide photographic antifoggants and stabilizers. 3,420,664, 1-7-69, Cl. 96-66.5
Dersch, Fritz; and Welsh, John A., to GAF Corporation. Antifogging and anti-plumming disulfide compound for use in silver halide photographs. 3,447,925, 6-3-69, Cl. 96-66.5
Dersch, William C., Jr. Signal translating apparatus. 3,470,321, 9-30-69, Cl. 179-1.
Derschmidt, Hans, to Bolkow Gesellschaft mit beschrankter Haftung. Device for stabilizing the rotor blades of a rotary wing aircraft. 3,448,811, 6-10-69, Cl. 170-160.25

Dershin, Harvey; and Leonard, Charles A., to General Dynamics Corporation. Transpiration cooled window. 3,452,553, 7-1-69, Cl. 62-239.
Dersin, Hans Jurgen: *See*—
Lochner, Horst P.; and Dersin, Hans Jurgen,3,461,004.
Dersin, Hansjurgen; and Fruchte, Erwin, to Siemens Aktiengesellschaft. Process of epitaxial growth wherein the distance between the carrier and the transfer material is adjusted to effect either material removal from the carrier surface or deposition thereon. 3,425,878, 2-4-69, Cl. 148-174.
Dersin, Hensjurgen; and Lochner, Horst-Paul, to Siemens Aktiengesellschaft. Method of growing epitaxial layers from binary semiconductor compounds. 3,480,472, 11-25-69, Cl. 117-201.
Dertouzos, Michael L.; and Graham, Huber L., to Massachusetts Institute of Technology. Graphical display system. 3,449,721, 6-10-69, Cl. 340-172.5
Derudder, Gerard; and Derudder, Rodolphe, to Societe Anonyme dite Societe Textile Saint-Antoine et Textile Halluinois S.A. Apparatus for yarn combining or doubling. 3,444,680, 5-20-69, Cl. 57-59.
Derudder, Rodolphe: *See*—
Derudder, Gerard; and Derudder, Rodolphe,3,444,680.
De Rudnay, Andre Etienne. Process for the recording, reproducting and erasing of information data on recording carries. 3,483,531, 12-9-69, Cl. 340-173.
De Rudnay, Andre. Process for the recording and reproducing of information data on recording carriers, and recording carrier therefor. 3,478,329, 11-11-69, Cl. 340-173.
de Ruggeri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, to Ormonoterapia Richter S.p.A.3-(2'-S-tetrahydropyranyl ethers) of estra-1,3,5 (10)-trienes. 3,481,924, 12-2-69, Cl. 260-239.55
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, to Ormonoterapia Richter S.p.A.Estratriene-[3,2-D]-pyrimidines and method of their preparation. 3,458,502, 7-29-69, Cl. 260-239.5
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, to Ormonoterapia Richter S.p.A. Estra-triene-pyrazoles and a method for their preparation. 3,484,435, 12-16-69, Cl. 260-239.5
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, to Ormonoterapia Richter S.p.A.3-(2'-R-tetrahydropyranyl ethers) of estra-1,3,5 (10)-trienes. 3,485,826, 12-23-69, Cl. 260-239.55
de Ruggieri, Pietro; Gondolfi, Carmelo; and Guzzi, Umberto, to Ormonoterapia Richter S.p.A. 2-Cyano-3-amino-estratrines and a method of their preparation. 3,449,327, 6-10-69, Cl. 260-239.5
De Ruig, Jan Robert, to American Enka Corporation. Method and apparatus for producing yarn packages with a variable speed spindle. 3,445,999, 5-27-69, Cl. 57-94.
de Ruig, Jans R.: *See*—
Schippers, Heinz; Lohest, Hans; and de Ruig, Jans R.,3,445,073.
De Ruiter, Ernest H.: *See*—
Reimlinger, Hans K.; De Ruiter, Ernest H.; and Kruerke, Ulrich K.,3,444,253.
de Ruiter, Jacob Willem: *See*—
Burggraaf, Anthonie Jan; van der Stelt, Ernest Onno Willem; and de Ruiter, Jacob Willem,3,484,276.
de Ruiter, Jacob Willem; and Willemstein, Anton, to North American Philips Company, Inc. Methods and arrangements for melting material which melts only with difficulty. 3,436,465, 4-1-69, Cl. 13-1.
de Ruyter van Steveninck, Albert W.; and Beevendorp, Johannes, to Shell Oil Company. Process for the preparation of ester resins. 3,477,974, 11-11-69, Cl. 260-18.
Dervan, James T., III, to International Business Machines Corporation. System for automatically testing computer memories. 3,478,286, 11-11-69, Cl. 235-153.
Dervan, James T.: *See*—
Apple, Clarence T.; and Dervan, James T.,3,427,443.
De Ryck, Petrus Robert, to Constructiewerkhuizen Van Oordegem. Installation for the injection of a sole in a mould closed by a last. 3,448,490, 6-10-69, Cl. 18-4.
De Rycke, Douglas August Charles; and Parker, Owen Gordon, to Spence, Peter & Sons Limited. Catalytic muffler. 3,434,806, 3-25-69, Cl. 23-288.
Des Champs, James W. Control for forward and reverse drive and for engine power, with special adjustments for engine idling and acceleration. 3,444,765, 5-20-69, Cl. 74-876.
des Chatelets, Jean: *See*—
Gilwood, Martin E.; and des Chatelets, Jean,3,481,868.
Des Jardins, James: *See*—
Thumim, Carl; Herman, Nicholas; and Des Jardins, James,3,424,044.
Des Ormeaux, Jean P. Dairy product ordering device. 3,474,554, 10-28-69, Cl. 40-5.
Des Ormeaux, John A.; and Paradis, Joseph R., to Worthen, Frederic P. Method and apparatus for cutting tape in sewing machine. 3,468,269, 9-23-69, Cl. 112-130.
Des-Eng-Con Corporation: *See*—
Eck, Karl A., 3,420,357.
Des-Jardins, Edgar E.: *See*—
Hair, Hugh A.; Roome, Gerard T.; Gerst, Carl W.; Des-Jardins, Edgar E.; and Domick, Edward J.,3,447,143.
Desai, Ramanlal Markandrai: *See*—
Chipalkatti, Vasant Bhimrao; Desai, Ramanlal Markandrai; Sattur, Naranyan Balvantrao; and Husain, Iftikhar,3,457,026.
Chipalkatti, Vasant B.; Desai, Ramanlal M.; Sattur, Narayan B.; and Hussain, Iftikhar,3,457,024.
De Sandre, Giovanni: *See*—
Perotto, Pier Giorgio; and De Sandre, Giovanni,3,469,244.
Desaulles, Pierre-Antoine: *See*—
Jaques, Roland; and Desaulles, Pierre-Antoine,3,462,531.
Desbrueres, Maurice: *See*—
Arnaud, Jacques; Sobotka, Walter; and Desbrueres, Maurice,3,432,776.
Descarries, Raymond: *See*—
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James,3,469,272.
Deschamps, Andre; and Bernard, Nicolle Georgette Suzanne, to International Telephone and Telegraph Corporation. Ferromagnetic materials and processes for their manufacture. 3,457,174, 7-22-69, Cl. 252-62.57
Deschamps, Andre; and Renault, Philippe, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for metal removal from petroleum residues. 3,468,790, 9-23-69, Cl. 208-251.
Deschamps, Robert Marcel, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Separator arrangements for electrochemical power sources, methods of their manufacture and power sources equipped therewith. 3,428,495, 2-18-69, Cl. 136-143.
Descher, Heinz, to North American Philips Company, Inc. Collector brushes for slip contacts. 3,423,715, 1-21-69, Cl. 339-1.
De Schryver, Frans: *See*—
Marvel, Carl S.; Okada, Masahiko; and De Schryver, Frans,3,475,374.
Deschuttere, Lucien Roger; Scharpe, Ludo Adriaan; Schaltin, Walter Malvine; and Peeters, Gustaaf Joannes, to Gevaert-Agfa N.V. Apparatus for the contactless removing of dust from webs. 3,469,275, 9-30-69, Cl. 15-306.
Descovich, Joseph: *See*—
Labartino, Charles; and Descovich, Joseph,3,456,236.
De Senepart, Jules-Odon, to Schnyder, Adrien. Cigarette filter. 3,422,822, 1-21-69, Cl. 131-269.
Deseniss, Philipp, to Varta Aktiengesellschaft. Electric cell. 3,429,747, 2-25-69, Cl. 136-13.
Deseret Pharmaceutical Company, Inc.: *See*—
Coker, Donald G.; and Loveless, James C., 3,447,181.
De Serre, Charles G.; and Johnson, Thomas L., to International Business Machines Corporation. Tens transfer mechanism with provision for end- around carry. 3,476,920, 11-4-69, Cl. 235-137.
Deshong, Elzie E.; and Palson, Richard C. J., to International Packaging Corporation. Display package. 3,442,371, 5-6-69, Cl. 206-45.23
Design and Manufacturing Corporation: *See*—
Duncan, Thomas W., 3,443,719.
Zane, Victor H., 3,464,437.
Design Progress Inc.: *See*—
Bell, Joseph P., 3,454,757.
Designatronics, Inc.: *See*—
Walker, Melvin F., 3,427,900.
Designed Mailing Accessories, Inc.: *See*—
Buckholz, Ronald J., 3,454,451.
De Simas, John. Container and pallet. 3,442,434, 5-6-69, Cl. 229-14.
deSimas, John. Cargo containers. 3,480,196, 11-25-69, Cl. 229-23.
De Simone, Aldo: *See*—
Broxmeyer, Charles; and De Simone, Aldo,3,426,592.
Desire, Pierre: *See*—
Rozie, Maurice; and Desire, Pierre,3,431,072.
Desjardins, Stanley P.; and Wright, Charles H., to Thiokol Chemical Corporation. Rocket thrust nozzle system. 3,446,436, 5-27-69, Cl. 239-265.25
Desjardins, Stanley P.: *See*—
Walton, David A.; and Desjardins, Stanley P.,3,436,021.
Deskevich, Stephen; and Newman, John B., to International Business Machines Corporation. Data entry system. 3,462,411, 8-19-69, Cl. 340-172.5
Desko, Albert G. Mortar mixing machine. 3,430,931, 3-4-69, Cl. 259-178.
Deslauriers, Clovis F. Apparatus for die cutting and scoring paper sheets. 3,443,488, 5-13-69, Cl. 93-58.
Desloge, George B., to Watlow Electric Manufacturing Company. Retainer for clamp for a cylindrical type heater. 3,475,597, 10-28-69, Cl. 219-535.
Desma-Werke Gesellschaft mit beschrankter Haftung: *See*—
Klee, Werner, 3,474,496.
Ludwig, Herbert, 3,446,887.
Desmarais, Armand J.: *See*—
Bishop, Robert G.; Desmarais, Armand J.; and Reid, Albert R.,3,455,714.
Desmarais, Armand J., to Hercules Incorporated. Protective coating composition of binder latex in water-glycol vehicle. 3,483,148, 12-9-69, Cl. 260-17.

Desmarais, Armand J.; and Reid, Albert R., to Hercules, Incorporated. Cellulose ether-esters and process. 3,435,027, 3-25-69, Cl. 260-226.

Desmarchais, Walter E.; and Braun, Howard E., to Westinghouse Electric Corporation. High pressure vessel hold-together structure. 3,445,971, 5-27-69, Cl. 52-80.

De Smedt, Felix Frederik, to Gevaert-Agfa N.V. Process for making isotropic polymeric film. 3,479,426, 11-18-69, Cl. 264-289.

De Smedt, Felix Frederik; and Marinus, Victor Alois, to Gevaert-Agfa, N.V. Adjustment mechanism. 3,455,175, 7-15-69, Cl. 74-89.17

De Smedt, Felix Frederik; Marinus, Victor Alois; and De Meyere, Edwin August, to Gevaert-Agfa N.V. Extrusion apparatus. 3,456,293, 7-22-69, Cl. 18-12.

de Smet, Herman J., to Northern Electric Company, Limited. Damping spring for select bars in crossbar switches. 3,474,207, 10-21-69, Cl. 200-175.

Desmond, Charles F., to Houdaille Industries, Inc. Viscous vibration damping. 3,448,830, 6-10-69, Cl. 188-1.

Desmond, John D.: *See*—
Collura, Peter C.; Desmond, John D.; Venditti, Arthur P.; and Lesinski, Theodore S.,3,438,563.

Desmond, John D.; Lesinski, Theodore S.; and Martin, James A., to Container Corporation of America. Overwrapped carton. 3,424,367, 1-28-69, Cl. 229-38.

Desmond Martin Forde: *See*—
Rees, Robin Gore, 3,447,211.

Desmond, Timothy J.; Greenburg, Leon S.; and Weisberg, Harry, to Radio Corporation of America. High speed controlled rectifiers with deep level dopants. 3,445,735, 5-20-69, Cl. 317-235.

Desmoulins, Jean Marie Joseph; and Becker, Jean Marie P. Folding oven for portable stove. 3,428,039, 2-18-69, Cl. 126-9.

Desnoyers, Paul J., to Johnson & Johnson. Pressure sensitive tape. 3,482,683, 12-9-69, Cl. 206-59.

De Somer, Pierre; Denys, Pierre; and Leyten, Roger, to Recherche et Industrie Therapeutiques R.I.T. Thymus extract. 3,438,859, 4-15-69, Cl. 195-1.8

Desormiere, Bernard P. L.; Parouty, Jean Claude; and Piechon, Andre L., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Gyromagnetic resonance magnetometer with ferrimagnetic sample. 3,441,837, 4-29-69, Cl. 324-0.5

DeSoto Chemical Coatings, Inc.: *See*—
Anderson, Bryce P., 3,426,096.

De Soto, Inc.: *See*—
Sekmakas, Kazys, 3,450,660.
Sekmakas, Kazys; and Gaske, Joseph E., 3,450,791.
Sekmakas, Kazys, 3,450,792.
Sekmakas, Kazys, 3,457,324.
Sekmakas, Kazys, 3,468,836.
Sekmakas, Kazys; and Stancl, Roland F., 3,470,126.

Desoutter Brothers Limited: *See*—
States, Ronald Frederick, 3,440,908.

Despain, Alvin A.; and Mac Belnap, Amasa. Self propelled harvesting vehicle. 3,430,982, 3-4-69, Cl. 280-255.

DeSpain, Thomas H., to Southern Textile Machiney Company, Incorporated. Method and apparatus for seaming and inspecting hosiery. 3,486,471, 12-30-69, Cl. 112-121.15

Despatch Oven Company: *See*—
Melgaard, Hans L., 3,431,002.

Desplats, Andre Emile Evariste; and Levardon, Raymond Daniel Maurice, to Tractel S.A. Double-acting hydraulic cable pulling system. 3,474,946, 10-28-69, Cl. 226-112.

Desplats, Andre Emile Evariste; and Levardon, Raymond Daniel Maurice, to Fractel S.A. Safety device of cable-clamping traction apparatus. 3,485,478, 12-23-69, Cl. 254-106.

De Splinter, Donald H., to TRW Inc., mesne. Rail anchor. 3,451,621, 6-24-69, Cl. 238-315.

Desroches, Jean: *See*—
Cimetiere, Claudette; Desroches, Jean; and Routier, Claude,3,459,513.

Desrosiers, Louis L.: *See*—
Burman, Joseph O.; and Desrosiers, Louis L.,3,470,599.

Dessau, Ralph M.: *See*—
Heiba, El-Ahmadi I.; and Dessau, Ralph M.,3,435,080.

Dessauer, Rolf: *See*—
Cescon, Lawrence Anthony; and Dessauer, Rolf,3,445,234.
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth,3,423,427.
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth,3,449,379.

Desseigne, Gerard: *See*—
Boileau, Jacques; Desseigne, Gerard; and Konrat, Jean Paul,3,466,205.

Dessert, Edward P., to Square D Company. Multipole circuit breaker with pivotable handle locking member. 3,426,164, 2-4-69, Cl. 200-42.

Dessert, Edward P., to Square D Company. Electric circuit breaker with shunt trip coil. 3,436,695, 4-1-69, Cl. 335-9.

Destache, Richard W.: *See*—
Klessig, Ernst F.; and Destache, Richard W.,3,452,779.

Destech Labs., Inc.: *See*—
Lee, Patrick P., 3,437,332.

DeStefano, Leonard A.: *See*—
MacDonald, Hugh D., Jr.; DeStefano, Leonard A.; and DeLeo, James M.,3,421,720.

Destelle, Jean, to Armel Arts, Mecanique, Electronique. Musical instrument employing single unijunction transistor oscillator in which volume is controlled by key displacement. 3,474,182, 10-21-69, Cl. 84-1.25

de Stevens, George: *See*—
Carney, Richard William James; Blatter, Herbert Morton; and de Stevens, George,3,454,573.

DeStevens, George: *See*—
Carney, Richard William James; Blatter, Herbert Morton; and DeStevens, George,3,483,200.

de Stevens, George; Blatter, Herbert Morton; and Chernov, Harvey, to Ciba Corporation. Analgesic compositions of a 4-aminoalkylamino- quinazoline and 1-amino-alkoxybenzimidazole. 3,449,498, 6-10-69, Cl. 424-251.

de Stevens, George: *See*—
Mizzoni, Renat Herbert; and de Stevens, George,3,454,575.
Mizzoni, Renat Herbert; Lucas, Robert Armistead; and de Stevens, George,3,455,923.

Desthuilliers, Jean-Pierre, to Compagnie des Freins et Signaux Westinghouse. Fluid pressure brake control apparatus for railway cars. 3,472,560, 10-14-69, Cl. 303-13.

Det Norske Zinkkompani A/S: *See*—
Steintveit, Georg, 3,434,947.

De Tar, Donald R., to Litton Systems, Inc. Compact electrical connectors. 3,426,315, 2-4-69, Cl. 339-105.

Detch, Lewis. Locking devices for fluorescent lamps. 3,466,594, 9-9-69, Cl. 339-54.

Detemple, Manfred, to Jenaer Glaswerk Schott & Gen. Reference electrode. 3,445,368, 5-20-69, Cl. 204-195.

Detemple, Manfred, to Jenaer Glaswerk Schott & Gen. Reference electrode. 3,463,718, 8-26-69, Cl. 204-195.

Determann, Fritz: *See*—
Wells, Leon W.; and Determann, Fritz,3,451,750.

Deters, Elmer M.: *See*—
Komor, Peter S.; and Deters, Elmer M.,3,457,867.

Deters, Elmer M., to Red Jacket Manufacturing Company. Leak detecting apparatus. 3,454,195, 7-8-69, Cl. 222-52.

Detert, Klaus: *See*—
Assmus, Fritz; Boll, Richard; Detert, Klaus; Ganz, Dietrich; Ibe, Gerhard; and Pfeifer, Friedrich,3,466,201.

Detexomat Limited: *See*—
Bryan, Leonard T. F., 3,429,284.
Payne, Alfred John, 3,449,015.

Detheridge, John Stanley: *See*—
Nicholls, Bertram Frank; and Detheridge, John Stanley,3,487,249.

Detling, Miles W.: *See*—
Braid, Murray D.; and Detling, Miles W.,3,472,996.

De Tommasi, Arthur N.: *See*—
Harris, Lawrence A.; and De Tommasi, Arthur N.,3,459,873.

Detrex Chemical Industries, Inc.: *See*—
Jacobsen, John B.; and Carpenter, William R., 3,467,113.
Kircher, Charles E.; and Jones, Robert J., 3,425,188.
Kircher, Charles E.; Jones, Robert J.; and Kinsella, Frank V., 3,475,504.
Smith, Louis G., Jr., 3,482,085.
Young, Bruce A., 3,483,092.

Detrick, Robert S.; and Gillespie, Gerald J., to Koppers Company, Inc. Method of resin impregnating a spool of fiberglass roving. 3,449,152, 6-10-69, Cl. 117-54.

Detrixhe, Arvid J. Rotary plow. 3,433,706, 3-18-6, Cl. 172-67.

Detro, Richard Gray, to General Electric Company. Lead connection means for voltage tunable magnetrons. 3,479,442, 11-18-69, Cl. 174-50.58

Detroit Edison Company, The: *See*—
Anderson, Clarence A.; and Charneski, Mitchell D., 3,467,035.
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C., 3,479,443.

Detroit Flame Hardening Company: *See*—
Scott, Marvin R., 3,451,245.
Scott, Marvin R., 3,472,160.

Detroit Switch Corporation: *See*—
Arnold, John E., 3,486,164.

Detroit Tap & Tool Co.: *See*—
Burnett, Herbert C., 3,439,518.

Dettling, Joseph C.: *See*—
Hindin Saul Gerald; and Dettling, Joseph C.,3,484,194.

Dettman, Harold V.: *See*—
Nelson, Iver L.; and Dettman, Harold V.,3,465,499.

Dettman, Robert J. Paint roller cleaning aid. 3,421,527, 1-14-69, Cl. 134-138.

Dettmering, Wilhelm. Supersonic cascades. 3,442,441, 5-6-69, Cl. 230-132.

Dettner, Heinz W., Dr.: *See*—
Dettner, Heinz, 3,457,147.

Dettner, Heinz, to Dettner, Heinz W., Dr., mesne. Chromium plating bath and process. 3,457,147, 7-22-69, Cl. 204-51.
Dettwiler, Werner: *See—*
Reich, Ernst; and Dettwiler, Werner,3,449,425.
de Tullio, Luigi; Spence, Ian Leighton; and Mostyn, Rodney, to Marconi Company Limited, The. Ultrasonic presence detectors. 3,431,549, 3-4-69, Cl. 340-1.
Detuncq, Yves: *See—*
Guillermard, Pierre; Juston, Paul; and Detuncq, Yves,3,455,963.
De Turris, Frank L.: *See—*
Clark, Kendall; De Turris, Frank L.; and Kaper, Ronald G.,3,483,495.
Detweiler, Meade H., to Fuller Company. Flush deck hatch cover assembly and movable pivot mount therefor. 3,422,877, 1-21-69, Cl. 160-188.
Detweiler, Roy R., to Du Pont de Nemours, E. I., and Company. Process for sulfuric acid manufacture. 3,454,360, 7-8-69, Cl. 23-168.
Detweiler, William I.; and Connally, Billie M., to Technology Instrument Corporation of California. Resistor winding structure. 3,427,548, 2-11-69, Cl. 338-256.
Detwiller, Ronald H.; Ostenson, Donald O.; and Weispfenning, Walter W., to Clark Equipment Company. Tripping mechanism for agricultural implements. 3,483,930, 12-16-69, Cl. 172-267.
Deubel, Reinhold: *See—*
Fuchs, Otto; and Deubel, Reinhold,3,454,568.
Deucher, Theodore F., to Clevite Corporation. Piezoelectrically ignited gas torch. 3,436,164, 4-1-69, Cl. 431-255.
Deuring, Karl; and Scharfen, Hans, to Forkardt, Paul, K.G. Jaw chuck. 3,469,856, 9-30-69, Cl. 279-119.
Deuringer, Rudolf, to Beckman Instruments, Inc. Ozone scavenger. 3,433,580, 3-18-69, Cl. 23-2.
Deuringer, Rudolf: *See—*
Litle, Robert L.; Sternberg, James C.; and Deuringer, Rudolf,3,483,990.
Deuschle, Frita, to Brunswick Corporation. Three-way stopcock. 3,481,367, 12-2-69, Cl. 137-625.47
Deuschle, Fritz, to Brunswick Corporation. Fluid transfer structure. 3,459,177, 8-5-69, Cl. 128-22.
Deuschle, Fritz; and Walker, Clarence L., to Brunswick Corporation. Dental impression tray. 3,473,225, 10-21-69, Cl. 32-17.
Deussner, Herbert, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and device for removing dust from exhaust gases. 3,485,012, 12-23-69, Cl. 55-8.
Deussner, Herbert; and Schmitz, Hugo, to Klockner-Humboldt-Deutz Aktiengesellschaft. Apparatus for classifying particulate material. 3,443,687, 5-13-69, Cl. 209-3.
D'Eustachio, Dominic, to Pittsburgh Corning Corporation. Method and apparatus for reducing the thickness of float glass. 3,486,873, 12-30-69, Cl. 65-65.
D'Eustachio, Dominic; and Johnson, Howard E., to Pittsburgh Corning Corporation. Process for making cellular materials. 3,441,396, 4-29-69, Cl. 65-22.
D'Eustachio, Dominic; and Johnson, Howard E., to Pittsburgh Corning Corporation. Arcuately shaped cellular glass article and method of making the same. 3,459,630, 8-5-69, Cl. 161-168.
D'Eustachio, Dominic:*See—*
Johnson, Howard E.; and D'Eustachio, Dominic,3,429,955.
Deuth, Albert F., to Clairex Electronics, Inc. Fire detector. 3,430,220, 2-25-69, Cl. 340-237.
Deutsch, Albert S.: *See—*
Levinos, Steven; and Deutsch, Albert S.,3,436,215.
Deutsch Company Electronic Component Division, The: *See—*
Lawrence, Roland B.; and Harnack, George H., 3,449,708.
Deutsch Company Electronic Components Division, The: *See—*
Culver, Perrin C., 3,470,524.
Culver, Perrin C., 3,475,720.
Deutsch, Daniel H.; Green, Stanley E.; Murray, John D.; and Saleeby, Edward W., to Smith Kline & French Laboratories. Laboratory reagent for assay of alkaline phosphatase. 3,425,912, 2-4-69, Cl. 195-103.5
Deutsch, Ernest M. Kit construction. 3,430,361, 3-4-69, Cl. 35-19.
Deutsch, Fred; Deutsch, Lawrence S.; and Deutsch, James S. Extrusion die. 3,474,495, 10-28-69, Cl. 18-12.
Deutsch, Irving, to Sumergrade & Sons, Inc. Comforter construction. 3,467,974, 9-23-69, Cl. 5-334.
Deutsch, James S.: *See—*
Deutsch, Fred; Deutsch, Lawrence S.; and Deutsch, James S.,3,474,495.
Deutsch, Lawrence S.: *See—*
Deutsch, Fred; Deutsch, Lawrence S.; and Deutsch, James S.,3,474,495.
Deutsch, Peter R.: *See—*
Poux, Charles A.; and Deutsch, Peter R.,3,432,887.
Deutsche Akademie der Wissenschaften Zu Berlin: *See—*
Lebek, Alexander; and Raab, Siegfried, 3,453,088.
Reinheckel, Heinz; and Jahnke, Dietrich, 3,440,286.
Deutsche Edelstahlwerke Aktiengesellschaft: *See—*
Frehn, Fritz, 3,421,950.
Rum, Klaus; and Lingen, Dieter, 3,439,851.
Schierholt, Hans, 3,454,829.
Deutsche Edwlstahlwerke Aktiengesellschaft: *See—*
Frehn, Fritz, 3,450,511.
Deutsche Erdol-Aktiengesellschaft: *See—*
Lange, Hans, 3,456,730.
Lange, Hans, 3,473,610.
Weingaertner, Ernst; Berg, Dieter; and Streckebach, Karl Ernst Christian, 3,468,677.
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler: *See—*
Bader, Erich; and Sibenhorn, Wolfgang, 3,463,757.
Biegler, Hanns; Neugebauer, Walter; and Kempers, Herbert, 3,423,184.
Biegler, Hanns; Kallrath, Gottfried; and Klein, Kurt, 3,484,371.
Debus, Erwin, 3,455,717.
Dithmar, Karl; and Koblischek, Peter, 3,425,786.
Dithmar, Karl; and Koblischek, Peter, 3,455,718.
Fahenstih, Rudolf; and Weigert, Wolfgang, 3,441,573.
Hahn, Fritz, 3,445,178.
Hahn, Fritz; and Ney, Peter, 3,479,127.
Heimberger, Werner, 3,462,430.
Herzog, Hans; and Kabisch, Gerhard, 3,433,358.
Holzmann, Hermann, 3,434,826.
Huter, Ludwig; Losenske, Christa; and Schirmer, Dieter, 3,427,130.
Huter, Ludwig, 3,441,591.
Kabisch, Gerhard; and Herzog, Hans, 3,423,176.
Klein, Kurt; and Maluzi, Joachim, 3,484,368.
Kleinle, Alois, 3,449,174.
Knorre, Helmut; Bretschneider, Gunther; and Sauer, Heinrich, 3,433,605.
Knorre, Helmut; and Rothe, Wilfried, 3,470,225.
Muller, Lothar, 3,482,937.
Nauroth, Peter, 3,424,602.
Neugebauer, Walter, 3,434,977.
Obrowski, Walter; Bornig, Karl-Heinz; and Schrufer, Elmar, 3,444,373.
Pfeifer, Karl; Bretschneider, Gunther; Schwarz, Rudolf; and Laun, Karl, 3,472,459.
Reinhardt, Helmut; and Nauroth, Peter, 3,433,593.
Reinhardt, Helmut; Nauroth, Peter; and Achenbach, Karl, 3,473,890.
Schuler, Wilhelm A.; and Klebe, Hans, 3,457,261.
Schuler, Wilhelm Alfons, 3,427,312.
Schwarz, Rudolf; and Meyer-Simon, Eugen, 3,475,139.
Thiele, Kurt; and Posselt, Klaus, 3,426,034.
Thiele, Kurt, 3,472,845.
Thiele, Kurt, 3,474,107.
Thiele, Kurt, 3,480,663.
Thiele, Kurt; and von Bebenburg, Walter, 3,481,943.
Wilm, Diederich; Flasskamp, Willi; Broft, Eduard; and Jordan, Kurt, 3,473,300.
Deutsche Linoleum-Werke A.G.: *See—*
Betz, Erich, 3,484,331.
Deutsche Rhodiaceta AG: *See—*
Hasselkuss, Eugen; and Kimmig, Emil, 3,447,884.
Hasselkuss, Eugen; and Kimmig, Emil, 3,447,885.
Weigand, Hans, 3,444,592.
Deutsche Solvay-Werke GmbH: *See—*
Faerber, Gerhard; and Kersken, Wilhelm, 3,466,255.
Deutsche Tafelglas Aktiengesellschaft: *See—*
Graff, Roderich; Reichl, Karl Johann; Butz, Josef; and Pausch, Karl, 3,477,894.
Deutscher, Abe; Muttart, Vincent H.; and Gilbert, Jack W. Alarm and safety lock device. 3,432,631, 3-11-69, Cl. 200-61.67
Deutscher Spinnereimaschinenbau Ingolstadt Niederlassung der Schubert & Salzer Maschinenfabrik Aktiengesellschaft: *See—*
Goldammer, Georg; and Mahrt, Gunter, 3,443,285.
Hertzsch, Hans B., 3,443,287.
Deutschlander, Gert, to Schweizerische Industrie-Gesellschaft. Device for grouping objects. 3,424,293, 1-28-69, Cl. 198-34.
Deutschle, Alan G.: *See—*
Parks, Robert F.; and Deutschle, Alan G.,3,475,528.
Deutschman, Archie J., Jr.: *See—*
Berry, James W.; and Deutschman, Archie J., Jr.,3,473,888.
Deutschmann, Herbert: *See—*
Dinger, Hans; and Deutschmann, Herbert,3,478,542.
Deuzeman, Hendrik Herman Jan: *See—*
Gladney, Kurt Paul; and Deuzeman, Hendrik Herman Jan,3,432,453.
Deuzeman, Hendrik H., to Fiberglas Canada Limited. Production of water soluble or water dispersible methylated melamine-formaldehyde resins consisting largely of tri-methyl ether of tri-methylol melamine. 3,487,048, 12-30-69, Cl. 260-67.7
De Valroger, Pierre Albert Marie. Pneumatic lifting plenum chamber for vehicles. 3,462,100, 8-19-69, Cl. 244-100.
De Vane, Harry M. Therapy pool for use in swimming pools. 3,483,863, 12-16-69, Cl. 128-66.
Devaney, Richard G., to Eastman Kodak Company. Process for supplying precisely controlled supplemental heating to polymer melts. 3,469,012, 9-23-69, Cl. 13-23.

Devanney, Paul H.; and Jackson, Bernerd D. Valve guide bushing machining tool. 3,461,775, 8-19-69, Cl. 90-12.5
Devanney, Raymond H.; and Bies, Sylvester W., to Veeder Industries Inc. Shaft encoder. 3,423,750, 1-21-69, Cl. 340-347.
De Vaughn, Marshall S. Streamlining apparatus. 3,425,740, 2-4-69, Cl. 296-1.
De Vaul, Wayne E., to Guidance Technology, Inc. Loran receiving system. 3,422,433, 1-14-69, Cl. 343-103.
De Vaul, Wayne E. Loran receiving system. 3,479,628, 11-18-69, Cl. 325-473.
DeVault, Albert N., to Phillips Petroleum Company. Solvent dewaxing with hydrogenated polymeric dewaxing aids. 3,479,278, 11-18-69, Cl. 208-33.
De Vault, Albert N.; and Johnson, Marvin M., to Phillips Petroleum Company. Dewaxing of mineral oils. 3,451,920, 6-24-69, Cl. 208-33.
Devaux, Adrien; and Aubin, Gerard, to Societe Chimique de la Grande Paroisse, Azote et Produits Chimiques. Method for the production of nitrogen peroxide. 3,473,892, 10-21-69, Cl. 23-162.
De Vaux, Lloyd H., to Santa Barbara Research Center. Double injection photodetector having n^0-p-p^0. 3,466,448, 9-9-69, Cl. 250-211.
Devaux, Richard: *See*—
Delassus, Marcel; Devaux, Richard; and Hofman, Theophile,3,469,945.
Devco, Inc.: *See*—
Cranston, Albert E., Jr.; Cranston, Albert W.; and Rowell, William J., 3,471,994.
Deve, Vagn. Shell sand treating apparatus and method. 3,480,265, 11-25-69, Cl. 263-21.
Devejian, Kevork, to Alexander, George, Printing Co., Inc. Box for phonographic tape recordings. 3,443,738, 5-13-69, Cl. 229-33.
Development and Control Limited SA: *See*—
Murchison, John R.; Darnall, John C.; and Brassell, Clarence Morgan, 3,429,239.
Devenco Incorporated: *See*—
Schwartz, Edmund I., 3,432,754.
Deventer-Werke GmbH: *See*—
Waldhuter, Werner; Rubel, Werner; and Clough, Graham, 3,461,069.
Dever, James L.: *See*—
Gordon, Irving; Hodan, James J.; and Dever, James L.,3,448,179.
Dever, James L.; and Hodan, James J., to Hooker Chemical Corporation. Cyclic phosphorus esters and process for the preparation thereof. 3,459,835, 8-5-69, Cl. 260-927.
Dever, James L.; and Hodan, James J., to Hooker Chemical Corporation. Process for preparing aliphatic tertiary phosphites. 3,459,837, 8-5-69, Cl. 260-972.
Dever, James L.; and Hodan, James J., to Hooker Chemical Corporation. Cyclic esters of phosphorus and a process for the preparation thereof. 3,467,733, 9-16-69, Cl. 260-927.
Dever, James L.; and Hodan, James J., to Hooker Chemical Corporation. Phosphorus acid-carboxylic acid anhydrides. 3,482,002, 12-2-69, Cl. 260-935.
Popoff, Ivan C.; and Dever, James Louis,3,462,439.
de Vernejoul, Pierre: *See*—
Eudes, Marcel; and de Vernejoul, Pierre,3,462,245.
Deveson, John Harwood: *See*—
Pay, Donald Alexander; Butt, Anthony John; and Deveson, John Harwood,3,429,994.
Devienne, Andre, to Societe Francaise du Pneu Englebert. Pneumatic tires. 3,435,875, 4-1-69, Cl. 152-356.
Devienne, Andre: *See*—
Mirtain, Henri; and Devienne, Andre,3,435,874.
DeVilbiss Company, The: *See*—
Kock, Erhard, 3,450,092.
Kock, Erhard, 3,471,089.
Peeps, Donald J.; and Owen, Lewis M., 3,424,129.
Peeps, Donald J., 3,485,453.
Devillard, Jacques: *See*—
Blum, Pierre; and Devillard, Jacques,3,442,321.
de Villiers, Rocco Catoggio. Process for combined oxygen iron refining and producing of ferrous metals. 3,424,573, 1-28-69, Cl. 75-43.
Devin, Bernard; Lesueur, Robert; and Setton, Ralph. Thermionic converter. 3,454,797, 7-8-69, Cl. 310-4.
De Vincent, Patsy, to General Motors Corporation. Steering wheel. 3,476,897, 11-4-69, Cl. 200-61.57
De Vine, Barry F.: *See*—
Stuart, Guy E., Jr.; and De Vine, Barry F.,3,431,678.
Devine, Matthew H.: *See*—
Anderson, Donald C.; and Devine, Matthew H.,3,466,957.
De Vines, Hollis L., to Schlage Lock Company. Key recording system. 3,438,051, 4-8-69, Cl. 346-53.
Deviney, Marvin L., Jr., to Shell Oil Company. Production of unsaturated carbonylic compounds. 3,439,043, 4-15-69, Cl. 260-604.
Devins, James T.; and Quisenberry, Robert E., to Texaco Inc. Method of controlling selectivity in an aromatic hydrocarbon dealkylation process. 3,433,848, 3-18-69, Cl. 260-672.
Devisme, Jacques J. V. C. System for assembling components for the construction of partitions or ceilings. 3,475,875, 11-4-69, Cl. 52-581.
de Visser, Jacob; and Modderman, Pieter, to Organon Inc. Novel 19-nor-testosterone esters. 3,479,375, 11-18-69, Cl. 260-397.4
De Vita, Guy F. Transformation wig. 3,444,865, 5-20-69, Cl. 132-53.
DeVito, Albert P.: *See*—
Aaron, Jack, 3,477,089.
De Vito, Albert P., to Alcon Metal Products, Inc. Electrical tube socket. 3,426,318, 2-4-69, Cl. 339-193.
DeVito, Charles P.: *See*—
Aaron, Jack, 3,477,089.
De Vito, Charles P., to Alcon Metal Products, Inc. Combination mounting pin and solder well terminal. 3,431,541, 3-4-69, Cl. 339-128.
De Vito, Giuseppe. Wide band radiating system embodying disc-type dipoles. 3,475,758, 10-28-69, Cl. 343-795.
Devitt, Douglas J., to International Telephone and Telegraph Corporation. Electroplated contacts for semiconductor devices. 3,484,341, 12-16-69, Cl. 204-15.
De Vittorio, Joseph M., to Sherwin-Williams Company, The. Apparatus for measurement and control of nonvolatile components in liquid coating compositions. 3,475,316, 10-28-69, Cl. 204-299.
De Vlieg, Charles B.; and La Porte, Milton E., to De Vlieg Machine Company. Clamping mechanism. 3,456,530, 7-22-69, Cl. 77-1.
De Vlieg Machine Company: *See*—
De Vlieg, Charles B.; and La Porte, Milton E., 3,456,530.
Jerue, Richard A., 3,449,823.
Devlin, Edward C.; and Phillips, James M. R. Vehicle warning light and system. 3,469,235, 9-23-69, Cl. 340-107.
De Voe, Harvey B., Jr.; and Toms, Jay M., to Aluminum Company of America. Apparatus for handling elongated shapes. 3,425,570, 2-4-69, Cl. 214-6.
Devol, George C. Binary-code controlled apparatus. 3,476,266, 11-4-69, Cl. 214-1.
Devold, Olaf Andreas, to Devolds, O. A., Sonner A/S. Method of manufacturing carded yarn having an elastic core. 3,481,135, 12-2-69, Cl. 57-163.
De Volder, Noel Jozef: *See*—
Van den Heuvel, Walter August; Vanhaist, Johan Eugeen; Van Engerland, Jozef Leonard; and De Volder, Noel Jozef,3,432,329.
DeVolder, Noel Jozef: *See*—
Van den Heuvel, Walter August; Vanhalst, Johan Eugeen; Van Engeland, Jozef Leonard; and DeVolder, Noel Jozef,3,441,426.
De Voldre, Joseph J.; Baran, Francis R.; and Bahouth, Tayseer G., to Allied Chemical Corporation. Caustic soda concentrate. 3,437,598, 4-8-69, Cl. 252-156.
Devolds, O. A., Sonner A/S: *See*—
Devold, Olaf Andreas, 3,481,135.
De Vore, Bainard M.; Fowler, James E.; and Warthen, William P., to Deering Milliken Research Corporation. Apparatus and method for edge crimping and/or heat treating yarn. 3,439,391, 4-22-69, Cl. 28-1.
De Vore, William W.: *See*—
Dillingham, Edward; Caldwell, William W.; and De Vore, William W.,3,472,373.
De Vos, Frank: *See*—
Lotter, William; and De Vos, Frank,3,463,138.
Devos, Gaston, to Lohr & Bromkamp G.m.b.H. Universal joint. 3,442,095, 5-6-69, Cl. 64-21.
De Vries, Adrian J.: *See*—
Adler, Robert; and De Vries, Adrian J.,3,446,975.
DeVries, Charles V.; and Zimmerman, Arnold, to International Harvester Company. Agricultural apparatus. 3,464,192, 9-2-69, Cl. 56-25.
DeVries, Dale Byron, to Texas Instruments, Incorporated. Ambient atmosphere isolated semi- conductor devices. 3,475,664, 10-28-69, Cl. 317-235.
De Vries, Donald L.; and Nygren, Carl E., to Sinclair Research, Inc. Distillation of 2-phenylallyl alcohol at reduced pressure and in presence of an inhibitor. 3,444,053, 5-13-69, Cl. 203-6.
de Vries, Edward R., to Prismo Safety Corporation. Quick drying road marking composition and method. 3,474,057, 10-21-69, Cl. 260-22.
DeVries, G. John, Jr., to Bell Telephone Laboratories, Incorporated. Reciprocating electric connecting system. 3,433,889, 3-18-69, Cl. 174-69.
DeVries, George: *See*—
Sonnenberg, Frederic A.; and DeVries, George,3,479,865.
de Vries, Joseph Gerardus Maria: *See*—
van de Kerkhof, Lodevicus Lambertus Johannes; and de Vries, Joseph Gerardus Maria,3,479,718.
de Vries, Louis, to Chevron Research Company. Conjugated SO_2-diene copolymers. 3,476,716, 11-4-69, Cl. 260-79.3
De Vuyst, Hugo Richard Natalis; and Dereymaeker, Joseph Julien. Printed circuit connector spring contact device. 3,486,163, 12-23-69, Cl. 339-64.

Dew, Jimmy S., to Phillips Petroleum Company. Polypropylene fillers. 3,457,216, 7-22-69, Cl. 260-41.

Dew, John N.: *See—*
Alexander, John D.; Dew, John N.; and Martin, William L.,3,422,891.

Dew, John N.; and Martin, William L., to Continental Oil Company. Method of hydrocarbon recovery by in-situ combustion. 3,461,963, 8-19-69, Cl. 166-263.

Dew, Robert C., to Stratton & Terstegge Company. Radiantly-heated poultry brooder. 3,454,223, 7-8-69, Cl. 237-14.

Dew, Thomas L. Dental matrix. 3,436,827, 4-8-69, Cl. 32-11.

Dew, William F., Jr.; Thompson, Byrd T., Jr.; and Leybourne, Allen E., to Monsanto Company. Polymer handling and conveying apparatus. 3,484,213, 12-16-69, Cl. 23-285.

DeWald, Carl O. Roll dumping bin. 3,486,648, 12-30-69, Cl. 214-313.

Dewald, Chester L.: *See—*
Tilles, Harry; Baker, Don R.; and Dewald, Chester L.,3,480,671.

De Wald, Horace A., to Parke, Davis & Company. Substituted β-amino-2-stilbazole compounds. 3,462,446, 8-19-69, Cl. 260-295.

De Wald, Horace Albert, to Parke, Davis & Company. 4'-Methoxy-2,2,4-trialkyl-Δ^3-isoflavan compounds. 3,436,393, 4-1-69, Cl. 260-247.7

De Wald, Horace Albert, to Parke, Davis & Company. Novel 4'-Aminoethoxy-2,2,4-trialkyl-Δ^3-isoflaven compounds. 3,453,282, 7-1-69, Cl. 260-294.7

DeWall, Richard A.: *See—*
Raible, Donald A.; Bentley, Donald J.; and DeWall, Richard A.,3,468,631.

Dewan, John T.: *See—*
Alger, Robert P.; and Dewan, John T.,3,453,433.

Dewan, John T., to Schlumberger Technology Corporation. Pulsed and continuous neutron well logging technue. 3,462,600, 8-19-69, Cl. 250-83.1

Dewar, Douglas, to Dunlop Company Limited, The. Brake disc structure. 3,425,524, 2-4-69, Cl. 188-218.

Dewar, Douglas, to Dunlop Company Limited, The. Vehicle anti-skid braking systems. 3,469,662, 9-30-69, Cl. 188-181.

Dewar, Eric T.: *See—*
Black, William A.; Dewar, Eric T.; and Rutherford, David,3,463,790.
Black, William A. P.; Dewar, Eric T.; and Rutherford, David,3,420,852.
Black, William A. P.; Dewar, Eric T.; and Rutherford, David,3,433,738.

De Waters, Terry L.: *See—*
Gregory, Edward G.; Dobslaw, Gerhardt A.; and De Waters, Terry L.,3,456,696.
Leach, Hugh K.; Taylor, Robert W.; and De Waters, Terry L.,3,457,796.

De Weese, Richard O.; and Young, C Frank, to Union Carbide Corporation. Hollow electrode control device. 3,471,626, 10-7-69, Cl. 13-1.

de Weger, Dirk, to Zenith Radio Corporation. Variable delay network. 3,453,380, 7-1-69, Cl. 178-5.1

De Werth, Douglas W., to American Gas Association, Inc. Vent arrangement for sealed combustion systems. 3,435,816, 4-1-69, Cl. 126-85.

Dewey, Clyde G., to General Electric Company. Means for suppressing commutation transients in a controlled rectifier converter for high-voltage electric power applications. 3,423,664, 1-21-69, Cl. 321-11.

Dewey, Donald E.; Hartman, Charles H.; Horn, Robert D.; and McCartney, Talmadge O., to Perspective Inc. Computing perspective drafting machine. 3,422,537, 1-21-69, Cl. 33-18.

Dewey, John L., to Dow Chemical Company, The. Vitrified products. 3,440,070, 4-22-69, Cl. 106-67.

Dewey, Robert B. Fluid impeller apparatus. 3,430,921, 3-4-69, Cl. 253-45.

Dewey, William R.; and Locker, Howard W., to Jetdraft, Inc. Air jet pump. 3,448,917, 6-10-69, Cl. 230-95.

Dewez, Fernand J., Jr.; and Steiner, John E., to United States Steel Corporation. Electroslag welding method for fabricating heavy forgings. 3,467,808, 9-16-69, Cl. 219-73.

Dewhirst, Kenneth C., to Shell Oil Company. Homogeneous hydrogenation process employing a complex of ruthenium or osmium as catalyst. 3,454,644, 7-8-69, Cl. 260-570.9

Dewhirst, Kenneth C., to Shell Oil Company. Hydrogenation process. 3,480,659, 11-25-69, Cl. 260-465.1

Dewhirst, Kenneth C.: *See—*
Chung, Harold; Dewhirst, Kenneth C.; and Smutny, Edgar J.,3,444,202.
Youngman, Edward A.; Bauer, Ronald S.; and Dewhirst, Kenneth C.,3,444,145.

Dewhurst, Brian B., to Ethyl Corporation. Process for the manufacture of thiobisphenols. 3,449,441, 6-10-69, Cl. 260-609.

Dewhurst, Ernest James: *See—*
Murphy, James A.; Watkins, Cecil H.; Dewhurst, Ernest James; and Engel, Carl,3,473,694.

Dewing, Ernest William, to Aluminium Laboratories Limited. Recovery of purified divalent metal chlorides. 3,425,797, 2-4-69, Cl. 23-87.

Dewing, Ernest William, to Aluminium Laboratories, Limited. Procedures for removing impurities from aluminum trichloride gas. 3,436,211, 4-1-69, Cl. 75-68.

Dewing, Ernest William; and Phillips, Norman W. F., to Aluminium Laboratories, Limited. Subhalide refining of aluminum. 3,436,210, 4-1-69, Cl. 75-68.

Dewing, John: *See—*
Bell, William Hamilton; and Dewing, John,3,463,781.

de Winter, Max Salomon, to Organon Inc. Process for the preparation of 2-hydroxy- methylene-19-nor-steroids. 3,431,287, 3-4-69, Cl. 260-397.4

de Winter, Max Salomon; Modderman, Pieter; and Kloosterman, Johannes, to Organon Inc. Oxidation of 3-hydroxy-17-alkynyl-steroids. 3,429,875, 2-25-69, Cl. 260-239.55

de Winter, Max Solomon; and Harryvan, Elze Anjo, to Organon Inc.Process for the preparation of $\Delta^{5(10)}$ 3-keto-19-nor-steroids. 3,475,465, 10-28-69, Cl. 260-397.4

de Wit, Nicolaas P. M., to Stauffer Chemical Company. Production of hydrocarbonoxy silanes. 3,448,138, 6-3-69, Cl. 260-448.8

De Witt, David: *See—*
Napier, John; Sopher, Raeman P.; Totta, Paul A.; De Witt, David; and Karan, Clarence,3,458,925.

De Witt, Harold F.: *See—*
Bangerter, Kenneth R.; and De Witt, Harold F.,3,482,362.

De Witt, John H., Jr. Glass reed relay switching matrix. 3,465,291, 9-2-69, Cl. 340-166.

De Witt, Stewart H.: *See—*
Fantozzi, Dominick M.; De Witt, Stewart H.; and Rahaim, Thomas J.,3,422,620.

De Witt, William J.; and Taylor, Robert C., to Atlantic Richfield Company. Primary alcohol sulfate detergent compositions. 3,480,556, 11-25-69, Cl. 252-152.

de Witte, Serge: *See—*
Okaya, Akira; and de Witte, Serge,3,437,950.

De Wolf, Frank T., to General Electric Company. Brush holder construction. 3,436,577, 4-1-69, Cl. 310-246.

de Wolf, James L.: *See—*
Harmon, William George; and de Wolf, James L.,3,445,772.

De Woskin, Irvin S., to Beltx Corporation. Sanitary garment. 3,420,236, 1-7-69, Cl. 128-291.

De Woskin, Irvin S. Orthodontic appliance and method. 3,452,436, 7-1-69, Cl. 32-14.

De Woskin, Irvin S., to Beltx Corporation. Display package and method of manufacture. 3,486,615, 12-30-69, Cl. 206-78.

Dews, Jule N.; and Schmersahl, George W., to United States of America, Army. Laboratory aerosol device. 3,426,444, 2-11-69, Cl. 34-218.

De Wulf, Maurice J., to United States Steel Corporation. Variable-pitch wire crimping means. 3,476,157, 11-4-69, Cl. 140-105.

Dex-A-Grind, Inc.: *See—*
Stuart, Robert J., 3,434,245.

Dex-O-Mat: *See—*
Dexters, Johan Wilhelm, 3,448,677.

Dexheimer, Robert D.: *See—*
Ronay, Thomas E.; and Dexheimer, Robert D.,3,441,544.

Dexion Limited: *See—*
Sunasky, Joseph, 3,456,970.

Dexter, Arthur H.: *See—*
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C.,3,459,925.

Dexter Chemical Corporation: *See—*
Abrahams, David H.; and Goldberg, Leo, 3,445,279.

Dexter Corporation, The: *See—*
Childs, William I., 3,484,398.
De Rossi, Frank; and Osterberg, Carl A., 3,473,951.
Shallahamer, Roy A.; Naito, Frank Y.; and Bernes, Donald B., 3,429,981.

Dexter, Edwin M., to Bowles Engineering Corporation. Readout for a vortex rate-of-turn sensor. 3,420,109, 1-7-69, Cl. 73-505.

Dexter, Edwin M., to Bowles Engineering Corporation. Vortex readout system. 3,459,054, 8-5-69, Cl. 73-505.

Dexter, Edwin M., to Bowles Engineering Corporation Statistical device. Statistical device. 3,459,206, 8-5-69, Cl. 137-81.5

Dexter, Edwin M., to Bowles Engineering Corporation. System for measuring fluid pressure. 3,467,125, 9-16-69, Cl. 137-81.5

Dexter, Edwin M.; and Di Camillo, Carmine V., to Bowles Engineering Corporation. Fluidic circuit and manifold construction. 3,461,900, 8-19-69, Cl. 137-81.5

Dexter, Edwin M.; and Humphrey, Ronald L., to Bowles Engineering Corporation. Pure fluid system. 3,428,067, 2-18-69, Cl. 137-81.5

Dexter, Martin; Spivack, John D.; and Steinberg, David H., to Geigy Chemical Corporation. Esters of di(lower) alkylhydroxyphenyl alkanoic acid containing a hetero atom. 3,441,575, 4-29-69, Cl. 260-399.

Dexter, Martin; Spivack, John D.; and Steinberg, David H., to Geigy Chemical Corporation. Organic esters containing an alkylhydroxyphenyl group. 3,457,286, 7-22-69, Cl. 260-404.
Dexter, Martin; and Spivack, John Denon, to Geigy Chemical Corporation. 2-Substituted aminothiazoles. 3,467,666, 9-16-69, Cl. 260-306.8
Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert, to Geigy Chemical Corporation. N,N,N',N'-(Ethylenediamine)-tetrakis[ethylene-3- (3',5'-di-tert-butyl-4'-hydroxyphenyl) propionate] and compositions stabilized therewith. 3,435,065, 3-25-69, Cl. 260-473.
Dexter, Martin: *See*—
Peterson, Janet Brooks; and Dexter, Martin,3,459,704.
Dexter, Phillip. Apparatus and method for producing waves. 3,473,334, 10-21-69, Cl. 61-1.
Dexter, Robert G., to USS Agri-Chemicals, Inc., mesne. Wheeled vehicle vibratory spreader for granular material. 3,451,595, 6-24-69, Cl. 222-177.
Dexter, Theodore H.: *See*—
Minklei, Alfred O.; Dexter, Theodore H.; Sconce, James S.; and Thorstensen, Thomas C.,3,421,832.
Dexter, Warren L., to United States of America, Atomic Energy Commission. Multi-contact selector switch for high currents. 3,470,503, 9-30-69, Cl. 335-69.
Dexters, Johan Wilhelm, to Dex-O-Mat. Automatic machine for selling fried foods. 3,448,677, 6-10-69, Cl. 99-336.
Dey, Ervin J., to Standard Pressed Steel Co. Captive bolt unit. 3,437,119, 4-8-69, Cl. 151-69.
Dey, Ervin J., to Standard Pressed Steel Co. Castellated nut. 3,443,616, 5-13-69, Cl. 151-21.
Dey, Ervin J., to Standard Pressed Steel Co. Fastener strip. 3,446,261, 5-27-69, Cl. 151-41.71
Dey, Ervin J., to Standard Pressed Steel Co. Bolt with restrainer. 3,451,456, 6-24-69, Cl. 151-68.
Dey, Leland S., to U. S. Divers Company. Source of regulated pressure and pressure regulator for use therein. 3,426,790, 2-11-69, Cl. 137-505.18
De Yarmett, Harry William: *See*—
Lamb, Marcus J.; De Yarmett, Harry William; and Barr, Clifford L.,3,438,203.
de Yarmett, Harry W.; and Johnson, Murray F., to Shell Oil Company. Subsea pipe coupling apparatus. 3,459,442, 8-5-69, Cl. 285-27.
D'Eye, Royston Walter Mastin; and Shennan, John Vincent, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,463,702, 8-26-69, Cl. 176-68.
De Young, Edwin L., to Universal Oil Products Company. Molecular rearrangement of cycloalkadienic compounds. 3,420,905, 1-7-69, Cl. 260-666.
De Young, Malcolm W., to Fluke, John, Mfg., Co., Inc. Reactance-free reversely-folded resistive shunt in coaxial line. 3,458,846, 7-29-69, Cl. 338-61.
de Zacarias, Blanca C. Diapers. 3,483,864, 12-16-69, Cl. 128-284.
D & G Plastic Co.: *See*—
Marshall, Charles, 3,429,596.
Dgetluck, John, to Pioneer Packaging, Inc. Brush holder. 3,426,989, 2-11-69, Cl. 248-110.
Dgetluck, John, to Pioneer Packaging, Inc. Display mitt. 3,441,178, 4-29-69, Cl. 222-105.
Dhaka, Vir A.: *See*—
Davidse, Pieter D.; Dhaka, Vir A.; and Maissel, Leon I.,3,474,021.
Dhanda, Rajat, to Corning Glass Works. Workpiece handling apparatus. 3,467,236, 9-16-69, Cl. 198-33.
Dhein, Rolf; and Raichle, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Aqueous stove lacquers comprising a basic pigment and a slat of an alkyd resin with a tertiary alkylamine. 3,474,060, 10-21-69, Cl. 260-21.
Dhein, Rolf; Raichle, Karl; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Aqueous stoving varnish bases on amine salts of semiesters of hydroxyl group-containing, fatty acid-modified alkyd resins. 3,434,987, 3-25-69, Cl. 260-21.
Dhein, Rolf: *See*—
Nentwig, Joachim; Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebauer, Herbert,3,437,616.
Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebnauer, Herbert,3,477,977.
D'Heurle, Francois M.; Esaki, Leo; and Seki, Hajime, to International Business Machines Corporation. Schottky-barrier diode formed by sputter- deposition processes. 3,451,912, 6-24-69, Cl. 204-192.
DHJ Industries, Inc.: *See*—
Froehlich, Monroe, Jr., 3,422,461.
Froehlich, Monroe, Jr., 3,462,809.
Dhoble, Prafulla S., to Xerox Corporation. Infra-red heater. 3,449,546, 6-10-69, Cl. 219-216.
Dhondt, Roland O.: *See*—
Wood, Frederick C.; Dhondt, Roland O.; and Cheadle, George D.,3,458,433.
D'Huart, Guy, to Compagnie de Saint-Gobain. Method for surface working glass. 3,442,748, 5-6-69, Cl. 161-1.
Di-Dro Engineering Company: *See*—
Williamson, Floyd M., 3,453,848.
Diack, Arthur G. Latching and locking device for bypassing sliding doors. 3,479,769, 11-25-69, Cl. 49-449.
Diagraph-Bradle Industries, Inc.: *See*—
Follis, Dale C.; and Lampman, Duncan L., 3,460,474.
Dial, Harrell M.: *See*—
Jelinek, Jerry G.; and Dial, Harrell M.,3,448,986.
Dial, William R.: *See*—
Bissinger, William E.; Strain, Franklin; Stevens, Henry C.; Dial, William R.; and Chisholm, Raymond S.,3,474,072.
Diamant, Henri B., to HRB-Singer, Inc. Rotary scanner imaging device with mirrors mounted therein for reflecting radiation energy to photodetector means. 3,444,386, 5-13-69, Cl. 250-236.
Diamond, Albert: *See*—
Silverman, Alvin J.; and Diamond, Albert,3,470,509.
Silverman, Alvin J.; and Diamond, Albert,3,479,626.
Diamond, Albert, to Vernitron Corporation. Servomotor generator. 3,444,404, 5-13-69, Cl. 310-113.
Diamond Alkali Company: *See*—
Godes, David, 3,473,274.
Lipowski, Stanley A.; and Kelly, James M., 3,480,379.
Loeffler, John Edward, Jr., 3,485,590.
Magee, Thomas A., 3,442,864.
Sellet, Lucien, 3,462,237.
Diamond Antenna & Microwave Corporation: *See*—
Glynn, James J., 3,483,564.
Diamond, Clyde. Archery bow with arrow-actuated signalling means. 3,450,122, 6-17-69, Cl. 124-24.
Diamond Crystal Salt Company: *See*—
Hidden, William P., 3,432,990.
Diamond Die & Mold Co.: *See*—
Baldyga, Joseph W., 3,456,480.
Diamond, Holton W. Frozen dessert and method of making the same. 3,433,651, 3-18-69, Cl. 99-136.
Diamond, Howard, to Electro-Voice, Incorporated, mesne. Electromechanical transducer. 3,427,410, 2-11-69, Cl. 179-110.
Diamond International Corporation: *See*—
Bixler, Kenneth D.; and Ralphs, Robert E., 3,482,679.
Bixler, Kenneth D., 3,482,680.
Bliss, George N., 3,434,902.
Corsette, Douglas F., 3,420,413.
Corsette, Douglas F., 3,439,843.
Corsette, Douglas F., 3,469,744.
Daniele, Donald T., 3,477,908.
Foote, James E., 3,450,326.
Foote, James E., 3,468,468.
Peppler, William S., 3,423,901.
Peppler, William S.; Bliss, George N.; and Planck, Norman A., Jr., 3,478,703.
Peppler, William S., 3,479,930.
Perkins, William H., 3,434,647.
Williams, Glenn V., Jr., 3,450,098.
Diamond, Julius: *See*—
Ludwi, Bernard J.; Diamond, Julius; and Skinner, Wilfred A., Jr.,3,420,890.
Diamond Laboratories, Inc.: *See*—
Welter, Clarence J., 3,479,430.
Diamond, Louis H.; and Blumbergs, John H., to FMC Corporation. Quaternary ammonium peroxysulfates. 3,475,493, 10-28-69, Cl. 260-567.6
Diamond Machinery Company: *See*—
Landry, Robert G., 3,458,061.
Landry, Robert G.; and Jenney, Sherman R., 3,465,690.
Diamond, Martin J., to United States of America, Agriculture. Preparation of omega-hydroxyalkanoic acids. 3,466,310, 9-9-69, Cl. 260-413.
Diamond Power Specialty Corporation: *See*—
Nelson, John E.; and Saltz, John R., 3,439,376.
Singleton, John C.; McCullough, Donald H.; and Hartz, Raymond J., 3,428,839.
Diamond Power Specialty Limited: *See*—
Simpkins, John Oliver; and Lovatt, Michael, 3,467,019.
Diamond Shamrock Corporation: *See*—
Akiyama, James K., 3,451,968.
Altscher, Siegfried; and Fetscher, Charles A., 3,476,710.
Barrett, Harold E., Jr.; and Dickinson, Bernard N., 3,420,709.
Bufton, Richard G.; Abrams, Irving M.; and Burnett, Fredrick L., III, 3,423,336.
Bufton, Richard G., 3,459,687.
Bungs, Janis A., 3,437,591.
Bungs, Janis A., 3,440,259.
Cutter, Paul R.; and Hamilton, Donald N., 3,420,638.
Dietrich, Joseph J., 3,437,648.
Edwards, Joseph R., 3,432,306.
Friemel, William J.; and Wielkens, Vernon B., 3,420,757.
Galloway, Arthur Lyle, 3,456,055.

Geble, Paul H.; Smolin, Edwin M.; Wang, Tze Seng; and Volgstadt, Frank R., 3,457,219.
Hall, Daniel H., 3,446,700.
Horvath, Roland J.; Parsons, Charles G.; and Zettler, Toby T., 3,445,383.
Jackson, William M.; and Hengeveld, Frank W., 3,480,555.
Keckler, David P., 3,440,297.
Lally, Robert E.; and Cunder, Joseph, 3,476,786.
Lasco, Ralph H.; and Ferretti, Emmett J., 3,470,208.
Lipowski, Stanley A., 3,423,452.
Lipowski, Stanley A.; and Kelly, James M., 3,442,859.
Lipowski, Stanley A., 3,477,801.
Loter, Ira; and Long, John E., 3,437,494.
MacMillan, Melvin J.; and Ely, Charles M., 3,438,781.
McCain, George H.; Semancik, John R.; and Dietrich, Joseph J., 3,475,396.
Myers, Clyde B., 3,468,797.
Neros, Clifford A.; and Tomba, Charles P., 3,429,844.
Neros, Clifford A.; and Tomba, Charles P., 3,454,517.
Papendick, Paul; and Curley, Henry, 3,464,541.
Reese, William D., 3,433,691.
Schalin, Edmund, 3,448,046.
Sellet, Lucien, 3,435,009.
Sellet, Lucien, 3,475,113.
Shore, William S., 3,434,652.
Shore, William S., 3,462,061.
Shore, William S., 3,462,067.
Sickles, Ralph E., 3,432,338.
Sisson, Cecil G.; Foster, James L.; and Myers, Clyde B., 3,443,890.
Urbanowski, Richard L.; and Steinkoenig, Roland P., 3,440,258.

Diamond Walnut Growers, Inc.: *See—*
Johnson, Raymond A., 3,485,640.

Diamond, William E.; and Perry, George W., to Mobil Oil Corporation. Versatile marine structure. 3,433,024, 3-18-69, Cl. 61-46.5

DI/AN Controls, Inc.: *See—*
Sarno, Andrew N., 3,432,827.

Diana Manufacturing Company: *See—*
Fitzgerald, Harry G., 3,455,438.

Diana, William D.: *See—*
Wellman, William E.; Burton, Paul E.; and Diana, William D.,3,462,348.

Diani, Arthur Charles, to Bendix Corporation, The. Aircraft control system including automatic course changing means. 3,445,846, 5-20-69, Cl. 343-107.

Diapulse Corporation of America: *See—*
Saul, Robert, 3,464,010.

Dias, Fleming, to Zenith Radio Corporation. Stereo receiver suitable for integrated circuit construction. 3,466,399, 9-9-69, Cl. 179-15.

Dias, Fleming, to Zenith Radio Corporation. Combined synchronous demodulator and active matrix. 3,466,400, 9-9-69, Cl. 179-15.

Dias, Fleming, to Zenith Radio Corporation. Wave signal receiver. 3,479,463, 11-18-69, Cl. 179-15.

Dias, Fleming; Eilers, Carl G.; and Rypkema, Jouke N., to Zenith Radio Corporation. Color detector. 3,466,386, 9-9-69, Cl. 178-5.4

Diassi, Patrick A., to Squibb, E. R., & Sons, Inc. 7-Halo and 6 Halo, 6-dehydro-A-norprogesterone. 3,426,045, 2-4-69, Cl. 260-348.

Diassi, Patrick A., to Squibb, E. R., & Sons, Inc., mesne. 7-Halo and 6-halo, 6-dehydro A-norprogesterones. 3,429,926, 2-25-69, Cl. 260-586.

Diassi, Patrick A., to Squibb, E. R., & Sons, Inc. Synthesis of steroids. 3,449,378, 6-10-69, Cl. 260-348.

Diassi, Patrick A.: *See—*
Levine, Seymour D.; and Diassi, Patrick A.,3,424,786.
Levine, Seymour D.; and Diassi, Patrick A.,3,424,787.
Levine, Seymour D.; and Diassi, Patrick A.,3,439,023.
Levine, Seymour D.; and Diassi, Patrick A.,3,449,377.
Levine, Seymour D.; and Diassi, Patrick A.,3,468,955.
Levine, Seymour D.; and Diassi, Patrick A.,3,483,223.

Diatran Pacific: *See—*
Worcester, Leslie E.; and Webster, Lewis P., 3,461,538.

Diaz-Esparza, Ismael, to Ellipsograph, S.A. Ellipsograph. 3,447,243, 6-3-69, Cl. 33-30.

Diaz, Frank, to Ampex Corporation. Magnetic tape binder. 3,437,510, 4-8-69, Cl. 117-62.

Diaz, Ramon Bruno, to Colgate-Palmolive Company. Abrasive scouring cleanser. 3,458,446, 7-29-69, Cl. 252-99.

Di Bari, George A.; Sample, Clarence H.; and Knapp, Burton B., to International Nickel Company, Inc., The. Nickel electrodeposition process and auxiliary nickel anode alloy. 3,449,224, 6-10-69, Cl. 204-49.

Di Bari, George Angelo: *See—*
Renzoni, Louis S.; Di Bari, George Angelo; Knapp, Burton B.; and Carlin, Francis X.,3,437,571.

Di Bartolo, Ernest A.; and Brown, Alan M., to Fluid Controls, Inc. Rotary pump or motor. 3,482,525, 12-9-69, Cl. 103-162.

Di Bartolomeo, Giacomo, to Compagnia Italiana Westinghouse Freni E. Segali. Railway vehicle coupling. 3,442,398, 5-6-69, Cl. 213-76.

Di Bartolomeo, Giacomo, to Compagnia Italiana Westinghouse Freni E Segnali. Fluid pressure coupling devices. 3,477,743, 11-11-69, Cl. 285-12.

Dibbern, Uwe, to U.S. Philips Corporation, mesne. Spark gap device having insulators in the form of plasters. 3,450,929, 6-17-69, Cl. 313-325.

Dibelius, Norman R.; and Dounoucos, Angelo, to General Electric Company. Permeable protective suit in combination with means for maintaining a viable atmosphere. 3,457,918, 7-29-69, Cl. 128-142.5

Di Bello, Patrick M.; and Gancy, Alan B., to FMC Corporation. Preparation of dense sodium carbonate and the active intermediate product. 3,482,934, 12-9-69, Cl. 23-63.

Di Benedetto, Bernard A.; and Mlavsky, Abraham I., to Tyco Laboratories, Inc. Method of growing crystals. 3,429,818, 2-25-69, Cl. 252-62.9

Di Benedetto, Edward: *See—*
Di Benedetto, Pasquale, 3,434,315.

Di Benedetto, Pasquale, to Di Benedetto, Edward. Mechanism for locking the transmission of a motor vehicle. 3,434,315, 3-25-69, Cl. 70-202.

Dibotec AG.: *See—*
Chromy, Franz, 3,467,209.

Dibrell, Robert W. Lawn sprinkler. 3,451,623, 6-24-69, Cl. 239-97.

Di Camillo, Carmine V.: *See—*
Dexter, Edwin M.; and Di Camillo, Carmine V.,3,461,900.

Di Camillo, Carmine V., to Bowles Engineering Corporation. Curve fitting with pure fluid amplifiers. 3,461,899, 8-19-69, Cl. 137-81.5

Di Camillo, Carmine V., to Bowles Engineering Corporation. Mechanical-to-fluid interface. 3,468,340, 9-23-69, Cl. 137-625.48

Dichter, Jakob. Apparatus for the automatic production of glass bottles. 3,479,174, 11-18-69, Cl. 65-323.

Di Cicco, Peter A. Vehicle loading bin. 3,477,594, 11-11-69, Cl. 214-41.

Di Cio, Alessandro; and Mauri, Marcello Massi, to Snam Progetti S.p.A. Process for the hydrogenation of water-miscible acetylene compounds into olefin compounds. 3,450,776, 6-17-69, Cl. 260-635.

Dicius, Renualdas P.: *See—*
Karras, Ernest C.; and Dicius, Renualdas P.,3,440,593.

Dick, A. B., Company: *See—*
Bach, Frederick O.; and Ormsbee, Ruth E., 3,445,224.
Bach, Frederick O.; and Thomas, Richard E., 3,464,353.
Gallagher, John P., 3,469,526.
Gallagher, John P., 3,484,099.
Keur, Robert I., 3,465,350.
Keur, Robert I.; and Dahl, Henry A., 3,465,351.
Mazzio, Anthony James; and Birr, Louis G., Jr., 3,475,093.
Meier, John A., 3,446,500.
Pavlik, Thomas J., 3,443,028.
Thomas, Richard Edward; Florence, Robert T.; and Shoemaker, Clarence J., 3,451,143.
Tonkin, Kenneth J.; Swanson, John L.; and Jeschke, Richard R., 3,431,841.

Dick, A.B., Company: *See—*
Gilson, John L.; and Larson, Gail V., 3,421,910.

Dick, Clarence R.: *See—*
Ashby, Theodore L.; and Dick, Clarence R.,3,462,400.
McClendon, Jack C.; and Dick, Clarence R.,3,470,136.

Dick, Clarence R., to Dow Chemical Company, The. N-substituted aziridine-trialkylenemelamine copolymers. 3,455,849, 7-15-69, Cl. 260-2.1

Dick, Clarence R., to Dow Chemical Company, The. Aziridine copolymers. 3,459,686, 8-5-69, Cl. 260-2.1

Dick, E. Sam, Co., Inc.: *See—*
Brown, Verle H., 3,469,956.

Dick, Edward F.: *See—*
Griswold, Douglas A.; Dick, Edward F.; and Kesser, Charles M.,3,456,076.

Dick, George W., to Bell Telephone Laboratories, Incorporated. Symmetrical all-magnetic shift registers. 3,452,335, 6-24-69, Cl. 340-174.

Dick, George W.; and Farmer, Wayne D., to Bell Telephone Laboratories, Incorporated. Magnetic thin film storage network for shift registers and other logic. 3,438,008, 4-8-69, Cl. 340-174.

Dick, John O.: *See—*
Fohrmann, Ernest F.; Scoles, David A.; Cochran, Benjamin T.; and Dick, John O.,3,440,961.

Dick, Norman T., to Babcock & Wilcox Limited. Electro-slag welding. 3,433,926, 3-18-69, Cl. 219-137.

Dick, Richard W., to Weltronic Company. Sequencing circuit. 3,450,901, 6-17-69, Cl. 307-252.

Dick, Roy E. Automobile front end alignment equipment. 3,457,653, 7-29-69, Cl. 33-203.13

Dick, Winfred O. Masking means for selective punch card data transmission. 3,457,392, 7-22-69, Cl. 235-61.11

Dicke, Paul A., to Crown Controls Corporation. Semiautomatic rotator. 3,471,760, 10-7-69, Cl. 318-41.

Dicke, Robert H.; Block, Barry; and Weber, Joseph, said Dicke and said Block assor. to United States. of America Superconducting gravimeter. 3,424,006, 1-28-69, Cl. 73-382.

Dicken Manufacturing Company: *See*—
Stearns, Robert Edward, 3,420,303.

Dickenbrock, Frank, to General Motors Corporation. Transmission. 3,430,504, 3-4-69, Cl. 74-200.

Dickerson, Delbert J. Rotary make-up electrical connector for underwater use. 3,469,044, 9-23-69, Cl. 200-51.09

Dickerson, Delbert J. Method of making a tubular high pressure resistant vessel. 3,484,317, 12-16-69, Cl. 156-175.

Dickerson, Henry A., to Westinghouse Electric Corporation. Lift mechanism initiate control system. 3,448,941, 6-10-69, Cl. 242-79.

Dickerson, Loren L.: *See*—
Brandt, Raymond A.; and Dickerson, Loren L.,3,448,387.

Dickerson, Richard T., to Dow Chemical Company, The. Diazaphosphorus ring compounds and process for preparation thereof. 3,463,813, 8-26-69, Cl. 260-551.

Dickerson, Richard T., to Dow Chemical Company, The. Preparation of 1,1,2,2,3-pentabromopropane. 3,466,342, 9-9-69, Cl. 260-658.

Dickert, Eugene A., to Allied Chemical Corporation. Flexible urethane foams from crude polyisocyanates. 3,471,417, 10-7-69, Cl. 260-2.5

Dickert, Eugene A.; and Himmler, William A., to Allied Chemical Corporation. Urethane sponge prepared from crude polyisocyanates. 3,471,418, 10-7-69, Cl. 260-2.5

Dickert, Joseph J., Jr.; Heilweil, Israel J.; and Rowe, Carleton N., to Mobil Oil Corporation. Organic compositions having antiwear properties. 3,423,316, 1-21-69, Cl. 252-32.7

Dickey, David V.: *See*—
Shively, Richard P.; and Dickey, David V.,3,434,128.
Shively, Richard P.; and Dickey, David V.,3,469,246.

Dickey, Frank R., Jr., to General Electric Company. Object detection system. 3,438,030, 4-8-69, Cl. 343-7.7

Dickey, John W.: *See*—
Harrington, Herbert A.; Dickey, John W.; Allen, William M.; Butz, Carl C.; and Campbell, Clarence E.,3,485,230.

Dickey, Joseph B.; and Weaver, Max A., to Eastman Kodak Company. Benzothiazolyl-azo-aniline dyestuffs containing an N-alkylene oxoalkanoate group. 3,442,886, 5-6-69, Cl. 260-178.

Dickey, Rex E.: *See*—
Darigo, Julius; Dickey, Rex E.; and Reed, David S.,3,431,612.

Dickey, Richard K., to Technical Material Corporation, The. Electrical polyphase machine having stator and rotor windings connected in series to polyphase supply. 3,421,062, 1-7-69, Cl. 318-187.

Dickey, Sidney Earl. Lift truck paper roll handling attachment. 3,435,973, 4-1-69, Cl. 214-620.

Dickey, W. S., Clay Manufacturing Company: *See*—
Ligon, Elmer R., 3,424,482.
Ligon, Elmer R.; De Gasperi, Frank E.; and Reed, Norman D., 3,454,997.
Ligon, Elmer R.; and Medved, Thomas M., 3,484,517.
Siegfreid, Edward C., 3,465,075.

Dickhaeuser, Heiner; Scheuerer, Gunter; Adolphi, Heinrich; and Steinbrunn, Gustav, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft Ludwigshafen. O,O-(di methyl or ethyl)-S-(substituted allylthio- methyl) dithiophosphates. 3,442,984, 5-6-69, Cl. 260-948.

Dickhaeuser, Heiner: *See*—
Scheuerer, Guenter; Zeidler, Adolf; Dickhaeuser, Heiner; and Adolphi, Heinrich,3,423,487.

Dickie, Donald Landrine: *See*—
Brown, Michael; and Dickie, Donald Landrine,3,477,192.

Dickie, Howard B.: *See*—
Phelps, Harold E.; and Dickie, Howard B.,3,455,283.

Dickins, John Shuford, III, to Du Pont de Nemours, E. I., and Company. Apparatus for shaping and guiding a textile tow. 3,423,806, 1-28-69, Cl. 28-1.

Dickinson, Becton and Company: *See*—
Ayres, Waldemar A., 3,481,725.
Gandi, Robert A., 3,463,153.

Dickinson, Ben Wade Oakes, III; and Dickinson, Robert Wayne. Method and apparatus for dispensing seeds coated with a magnetic material. 3,460,492, 8-12-69, Cl. 111-1.

Dickinson, Bernard N.: *See*—
Barrett, Harold E., Jr.; and Dickinson, Bernard N.,3,420,709.

Dickinson, Clifford James; and Carew, Noel John, to Associated Electrical Industries, Limited. Cooling arrangement for damping windings of dynamo-electric machines. 3,459,979, 8-5-69, Cl. 310-54.

Dickinson, George Alfred; and Griffith, Charles Fitzroy, to Pilkington Brothers Limited. Composite tweel with internal suspension system. 3,445,217, 5-20-69, Cl. 65-172.

Dickinson, George Alfred; Morgan, John Henry; Thomas, James Edward Celfyn; and Oxley, Brian William, to Pilkington Brothers Limited. Apparatus and method for manufacture of float glass with restricted lateral spread. 3,433,612, 3-18-69, Cl. 65-99.

Dickinson, George Alfred; and Preston, Anthony, to Pilkington Brothers Limited. Apparatus for manufacturing flat glass. 3,433,614, 3-18-69, Cl. 65-182.

Dickinson, George Alfred; and Sift, Brian Stanley, to Pilkington Brothers Limited. Cleaning tool for float glass conveyor rollers. 3,481,727, 12-30-66, Cl. 65-168.

Dickinson, Harold W. Balanced hangar door. 3,421,260, 1-14-69, Cl. 49-197.

Dickinson, John David; Fowkes, Francis Samuel; and Rose, Trevor James, to Imperial Chemical Industries Limited. Manufacture of polymeric diguanides. 3,428,576, 2-18-69, Cl. 260-2.

Dickinson, Lloyd R.; and Brancati, Mario J., to McKinney Manufacturing Company. Geared hinge with floating rack bar. 3,422,487, 1-21-69, Cl. 16-163.

Dickinson, Robert Wayne: *See*—
Dickinson, Ben Wade Oakes, III; and Dickinson, Robert Wayne,3,460,492.

Dickinson, Sanford C., to Kaplan, Joseph A., & Sons, Inc. Heat-sealable readily draping fabric and method of making it. 3,434,858, 3-25-69, Cl. 117-9.

Dickinson, Thorn W., to Textron Inc., mesne. Offset welded retainer rings and bearings. 3,443,847, 5-13-69, Cl. 308-201.

Dickinson, Thorn W., to Fafnir Bearing Company, The. Crank bearing. 3,455,614, 7-15-69, Cl. 308-179.

Dickinson, Wesley Edward, to International Business Machines Corporation. Frequency analyzer for detection of energy. 3,450,989, 6-17-69, Cl. 324-77.

Dickman, John J., to Missouri Research Laboratories, Inc. Smoke generating apparatus. 3,432,439, 3-11-69, Cl. 252-359.1

Dickmann, Edwin A., to Bemis Company, Inc. Apparatus for bottoming bag tubes. 3,424,113, 1-28-69, Cl. 112-10.

Dickmann, John L.; and Flick, Howard S., to Jackson, Byron, Inc. Power tong head and assembly. 3,483,774, 12-16-69, Cl. 81-57.

Dickmann, John L.; Flick, Howard S.; and Palmer, Melvin J., to Jackson, Byron, Inc. Power tong assembly and control means therefor. 3,481,228, 12-2-69, Cl. 81-57.

Dickmann, John L.; and Palmer, Melvin J., to Jackson, Byron, Inc. Power tong assembly and transmission means therefor. 3,481,229, 12-2-69, Cl. 81-57.

Dickover, Marion Ward; and Ritchie, William N., to KW Battery Company, mesne. Moss shield and separator-protector assembly. 3,468,721, 9-23-69, Cl. 136-181.

Dicks, Peter Derek John; and Hill, William Melville, to Spraymould (Bahamas) Limited. Method of molding plastic articles. 3,482,013, 12-2-69, Cl. 264-297.

Dickson, Arthur D.; and Peters, Edward M., to Minnesota Mining and Manufacturing Company. Heat-resistant black fibers and fabrics derived from rayon. 3,484,183, 12-16-69, Cl. 8-116.

Dickson, Charles G. M., to Separator Engineering Ltd. Vibratory separator with sloping discharge dome. 3,469,694, 9-30-69, Cl. 209-255.

Dickson, David M., Jr., to Hercules Incorporated. Stabilized polyolefin compositions. 3,471,427, 10-7-69, Cl. 260-23.

Dickson, Donald John, to Qualcut Tools Limited. Collet chucks. 3,425,704, 2-4-69, Cl. 279-51.

Dickson, Eric Winston, to Associated Engineering Limited. Electrochemical machining including controlling the gap voltage using a constant electrode advance. 3,440,156, 4-22-69, Cl. 204-143.

Dickson, Eric Winston; and Grogan, Anthony Frederick, to Associated Engineering Limited. Electrochemical deburring under pressure. 3,467,593, 9-16-69, Cl. 204-224.

Dickson, James E.: *See*—
Lessig, William R., III; and Dickson, James E.,3,428,328.

Dickson, Robert T., to Dickson Smith, Incorporated. Door hinge assembly. 3,469,276, 9-30-69, Cl. 16-135.

Dickson Smith, Incorporated: *See*—
Dickson, Robert T., 3,469,276.

Dickson, Woodrow J.; and Jenkins, Fred W., to Petrolite Corporation. Flotation process. 3,425,549, 2-4-69, Cl. 209-166.

Dickson, Woodrow J.; and Jenkins, Fred W., to Petrolite Corporation. Fuel composition. 3,454,380, 7-8-69, Cl. 44-62.

Dickstein, Jack: *See*—
Bouchard, Robert Thomas; Dickstein, Jack; and Dean, Donald Eugene,3,442,844.

Dickstein, Jack; Cooperman, Isadore Nathan; and Cesanek, James John, to Borden Company, The. Vinyl chloride polymerization process and latex. 3,442,831, 5-6-69, Cl. 260-17.

Dicmas, John L., to Layne & Bowler Pump Company. Suction pump vortex control. 3,476,038, 11-4-69, Cl. 103-220.

Dictaphone Corporation: *See*—
Gilbert, Roswell W., 3,423,757.
Gilbert, Roswell W., 3,453,634.
Sullivan, William H., 3,456,994.
Sullivan, William H., 3,467,432.

Dictograph Products, Inc.: *See*—
Giller, Ronald R., 3,448,224.

Di Cuollo, C John; Kinney, Roland W.; and Stewart, Richard C., to Smith Kline & French Laboratories. Triazinoindole compounds. 3,453,276, 7-1-69, Cl. 260-249.9

Di Curcio, Robert A., to United Aircraft Corporation. Process for making and testing semiconductive devices. 3,461,547, 8-19-69, Cl. 29-574.

Didchenko, Rostislav, to Union Carbide Corporation. Process for the manufacture of carbon textiles. 3,441,378, 4-29-69, Cl. 23-209.1

Didier-Werke A.G.: *See—*
Linnemann, Rolf; and Voss, Ernst, 3,485,340.
Strauss, Gottfried; Heuss, Helmut; and Simon, Gerhard, 3,463,863.

Didot, Francois E.: *See—*
Boyer, Jackson S.; and Didot, Francois E.,3,447,883.

Didschies, Gunther: *See—*
Maaz, Karl; and Didschies, Gunther,3,473,109.

Didyk, Witalij: *See—*
Sobel, Ilyitch J.; and Didyk, Witalij,3,439,128.

Die Casting Machine Tools Limited: *See—*
Mace, Eric Arthur Roy, 3,474,854.
Mills, Aubrey Robert, 3,446,529.

Diebold, Adolf; Raichle, Ludwig; and Dussel, Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cutting apparatus for plastic sheeting. 3,441,232, 4-29-69, Cl. 242-56.7

Diebold Incorporated: *See—*
Anders, Walter G., 3,450,454.
Anders, Walter G., 3,464,750.
Leontas, Spiros, 3,482,801.
Strickland, Nacy L.; Kettering, Dale O.; and Grosswiller, Leo J., Jr., 3,429,082.

Diebold, James L.: *See—*
Wolf, Milton; and Diebold, James L.,3,471,494.

Diebold, Vincent B.: *See—*
Katzen, Raphael; Diebold, Vincent B.; and Moon, George D., Jr.,3,445,345.

Dieck, Klaus: *See—*
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; Witsch, Heinz-Guenter; and Theilig, Dietmar,3,442,600.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; and Witsch, Guenter,3,478,376.

Dieckmann, Steffen F., to Hercules Incorporated. Olefin polymerization catalyst pretreatment. 3,442,820, 5-6-69, Cl. 252-429.

Diederen, Guillaume Jan, to National Distillers and Chemical Corporation. Apparatus for drying printing ink on plastic film. 3,453,742, 7-8-69, Cl. 34-155.

Diederich, Marie Alphonse Paul Eugene Pierre. Decca Limited Receivers for phase comparison radio navigation systems. 3,447,156, 5-27-69, Cl. 343-105.

Diederich, Perry A.: *See—*
Hinrichs, Karl; and Diederich, Perry A.,3,421,093.

Diederichs, Artur, to Siemens Aktiengesellschaft. Electric motor and method of manufacture by high speed deformation. 3,432,700, 3-11-69, Cl. 310-42.

Diederichs, Artur; and Pieper, Wolfgang, to Siemens Aktiengesellschaft. Method of producing a rotary joint between at least two members having a rotationally symmetrical construction at the joint. 3,461,528, 8-19-69, Cl. 29-149.5

Diefendorf, Russell J., to General Electric Company. Process for construction high temperature capacitor. 3,429,020, 2-25-69, Cl. 29-25.42

Diefendorf, Russell J., to General Electric Company. Pyrolytic vacuum deposition from gases. 3,432,330, 3-11-69, Cl. 117-46.

Diefendorf, Russell J., to General Electric Company. Metal boride-metal carbide-graphite deposition. 3,458,341, 7-29-69, Cl. 117-46.

Dieffenbach, Percy. Artificial tree limb tapering machine. 3,458,893, 8-5-69, Cl. 18-1.

Dieffenbach, Percy. Fully automatic crosslimb attaching machine. 3,459,243, 8-5-69, Cl. 140-149.

Dieffenbacher, J., GmbH: *See—*
Pfeiffer, Heinrich, 3,453,950.

Diehl: *See—*
Bausch, Gunther, 3,479,564.
Becker, Willy, 3,452,187.
Beikufner, Georg, 3,455,504.
Bock, Erich; and Rentzsch, Max, 3,439,619.
Franzen, Roland; and Sindermann, Paul, 3,437,036.
Metschnabl, Andreas; and Burkhardt, Gottfried, 3,432,094.
Oellig, Oskar, 3,456,527.
Sindermann, Paul, 3,448,688.

Diehl, Alan V.; and Cole, Harold E., said Cole assor. to said Diehl. Dual ratio sprocket assembly for motorcycles. 3,437,162, 4-8-69, Cl. 180-33.

Diehl, Charles C. Method and mechanism for deodorizing polluted atmospheric air. 3,442,602, 5-6-69, Cl. 21-53.

Diehl, Donald S.; and Wagner, Robert, to TRW Inc. Terminal for electrical component. 3,446,912, 5-27-69, Cl. 174-94.

Diehl, Elmer Paul; and Riley, John E., to General Electric Company. High-low limit cirucit for D-C amplifier. 3,450,999, 6-17-69, Cl. 330-9.

Diehl, Karl, to Bauer, Carl. Fastener driving tool. 3,465,942, 9-9-69, Cl. 227-10.

Dieker, Robert J., to Kickham Boiler & Sheet Iron Works, Inc. Cutting apparatus with adjustable cradle to hold workpiece. 3,481,591, 12-2-69, Cl. 266-23.

Dielectric Products Engineering Co., Inc.: *See—*
Rhyne, Earl C., Jr., 3,461,374.

Dielectric Products Engineering Company, Inc.: *See—*
Sewell, Donald Nelson, 3,432,779.

Dielectric Systems, Inc.: *See—*
Arrhenius, Gustaf, 3,423,517.

Diem, Oskar. Totally evacuating forage wagon. 3,450,284, 6-17-69, Cl. 214-514.

Diemakers Limited: *See—*
Normandin, Marcel H., 3,451,524.

Dieman, Wendell R.; Lambden, Richard L.; and Pickles, Arnold, to Corning Glass Works. Flexible shaping tool. 3,449,105, 6-10-69, Cl. 65-298.

Diemer, Gesinus, to U.S. Philips Corporation, mesne. PN junction injection laser using a refractive index gradient to confine the laser beam. 3,456,209, 7-15-69, Cl. 331-94.5

Diemer, Gesinus; and van der Maesen, Felix, to North American Philips Company, Inc. Insulated gate field-effect transistor with widening current path between source and drain. 3,436,619, 4-1-69, Cl. 317-235.

Diemer, Gesinus; and van der Maesen, Felix, to North American Philips Company, Inc. Tapered insulated gate field effect transistor. 3,436,620, 4-1-69, Cl. 317-235.

Diemond, Joseph; Gershman, Melvin Y.; and Sundberg, Henry L., Jr., to Coleco Industries, Inc. Water-retaining recreational structure for swimming pools and the like. 3,428,969, 2-25-69, Cl. 4-172.

Diemond, Joseph; and Greenberg, Leonard, to Coleco Industries, Inc. Recreational structure for pools and the like. 3,421,162, 1-14-69, Cl. 4-172.

Dien, Chi Kang, to Allied Chemical Corporation. Hydrazonium azo dyestuffs. 3,438,964, 4-15-69, Cl. 260-158.

Dien, Chi Kang; and Demler, Walter Robert, to Allied Chemical Corporation. Caustic fusion of polycyclic aromatic compounds. 3,446,810, 5-27-69, Cl. 260-263.

Dien, Chi K., to Allied Chemical Corporation. Synthetic resin compositions containing alpha- phenylthioanthraquinones as colorants. 3,441,536, 4-29-69, Cl. 260-41.

Diener & Roth: *See—*
Armbruster, Fritz; and Rudolph, Martin, 3,479,421.

Diener, Carl E.; and Herrick, William G., to GAF Corporation. Preparation of photopolymer lithographic offset paper plates. 3,469,983, 9-30-69, Cl. 96-75.

Diener, Hans: *See—*
Enders, Heinz; and Diener, Hans,3,466,178.

Diener, Robert E.; and Spisak, Andrew A., to Warner & Swasey Company, The. Machine tool. 3,436,994, 4-8-69, Cl. 82-24.

Dierks, James E.; and Palmer, Allan M., to Eastman Kodak Company. Adapter for optical elements. 3,454,323, 7-8-69, Cl. 350-60.

Dierssen, Gunther H.: *See—*
Leeper, Le Roy J.; and Dierssen, Gunther H.,3,475,332.

Diesel Kiki Kabushiki Kaisha: *See—*
Kaibara, Nobuhiro; Sawa, Yoshimi; Ichikawa, Takeo; Watanabe, Risaburo; and Igarashi, Osamu, 3,485,223.

Diesel, Thomas J.: *See—*
Loebner, Egon E.; Diesel, Thomas J.; and Bube, Richard H.,3,466,509.

Diesen, Anton Kristian, to Telefonaktiebolaget L M Ericsson. Means for automatic telephone traffic to subscriber's lines in private automatic branch exchanges. 3,467,786, 9-16-69, Cl. 179-18.

Diesing, Arthur C.: *See—*
Kamienski, Conrad W.; Diesing, Arthur C.; and Morrison, Robert C. B.,3,452,112.

Diessel, Karl-Heinz: *See—*
Buning, Robert; Diessel, Karl-Heinz; and Konermann, Hans-Ewald,3,462,402.
Buning, Robert; Konermann, Hans-Ewald; Diessel, Karl-Heinz; and Bier, Gerhard,3,459,692.
Pungs, Wolfgang; Buning, Robert; and Diessel, Karl-heinz,3,481,893.

Dieterich, Dieter: *See—*
Heydkamp, Wolfgang; Wilms, Hugo; Kallert, Wilhelm; and Dieterich, Dieter,3,471,448.
Keberle, Wolfgang; and Dieterich, Dieter,3,438,940.
Keberle, Wolfgang; and Dieterich, Dieter,3,442,843.
Keberle, Wolfgang; Dieterich, Dieter; and Bayer, Otto,3,461,103.
Muller, Erwin; and Dieterich, Dieter,3,459,789.

Dieterich, Dieter; and Bayer, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane plastics. 3,479,310, 11-18-69, Cl. 260-29.2

Dieterich, Dieter; Muller, Erwin; and Bayer, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Elastomeric polyurethanes. 3,480,592, 11-25-69, Cl. 260-77.5

Dieterich, Peter Douglas, to Dieterich Standard Corporation. Manometric gauges. 3,446,076, 5-27-69, Cl. 73-401.

Dieterich Standard Corporation: *See—*
Dieterich, Peter Douglas, 3,446,076.
Dieterle, Horst, to Maltner, Heinrich, G.m.b.H. Ignition system for gas lighters or the like. 3,427,117, 2-11-69, Cl. 431-255.
Dieters, William I.; and Paddock, Bernard H., to Martin-Marietta Corporation. Heater bar system. 3,465,812, 9-9-69, Cl. 164-361.
Dietert, Harry W., Co.: *See—*
Dietert, Harry W., 3,456,924.
Dietert, Harry W., to Dietert, Harry W., Co. Method of and apparatus for premixing granular material additives. 3,456,924, 7-22-69, Cl. 259-148.
Dietl, Franz W.; and Kuhn, Edgar, to Bosch, Robert, G.m.b.H. Excitation system for a polyphase alternating current generator. 3,463,997, 8-26-69, Cl. 322-24.
Dietl, Franz, to Bosch, Robert, G.m.b.H. System for limiting the time average value of excitation current in a field winding of a voltage regulated alternating current generator to a preselected maximum value. 3,486,106, 12-23-69, Cl. 322-25.
Dietlein, Robert W. Internal ring locked insert. 3,454,072, 7-8-69, Cl. 151-41.73
Dietmann, Karl: *See—*
Kuhn, Richard; Jahn, Werner; and Dietmann, Karl,3,475,408.
Thiel, Max; Winter, Werner; Stach, Kurt; Schaumann, Wolfgang; and Dietmann, Karl,3,471,472.
Dietrich, Albert: *See—*
Wieland, Ernst; and Dietrich, Albert,3,451,642.
Dietrich, Ambrosius: *See—*
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Dietrich, Anton, to Optische Werke G. Rodenstock. Eyeglasses with adjustable nose pads. 3,431,045, 3-4-69, Cl. 351-137.
Dietrich, Georg; and Kehrer, Georg, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Rotary pump for power steering systems. 3,439,623, 4-22-69, Cl. 103-42.
Dietrich, Heinz J.; Karabinos, Joseph V.; and Raynor, Robert J., to Olin Mathieson Chemical Corporation. 2-Trichloromethyl-1,3-dioxoles and their preparation. 3,427,326, 2-11-69, Cl. 260-340.9
Dietrich, Heinz J.; King, George G.; and Karabinos, Joseph V., to Mathieson, Olin, Chemical Corporation. Iminodioxolanes as herbicides. 3,427,147, 2-11-69, Cl. 71-88.
Dietrich, Heinz J.: *See—*
Trementozzi, Quirino A.; Geymer, Douglas O.; Boyd, Thomas; and Dietrich, Heinz J.,3,482,935.
Dietrich, Henri, to Geigy Chemical Corporation. Iminodibenzyl derivatives. 3,435,028, 3-25-69, Cl. 260-239.
Dietrich, Henri, to Geigy Chemical Corporation. N'-substituted N-arylsulfonyl urea. 3,450,721, 6-17-69, Cl. 260-397.7
Dietrich, Henri: *See—*
Schindler, Walter; and Dietrich, Henri,3,467,650.
Dietrich, Isolde; Berkl, Erhard; and Weyl, Reinhard, to Siemens Aktiengesellschaft. Production of hard superconductors. 3,481,800, 12-2-69, Cl. 148-11.5
Dietrich, Johann, to Bayerische Wollfilzfabriken KG. Method of manufacture of a compound fabric. 3,452,413, 7-1-69, Cl. 28-72.2
Dietrich, John S. Mixing device. 3,473,789, 10-21-69, Cl. 259-175.
Dietrich, Joseph J., to Diamond Shamrock Corporation. Process for polymerizing vinyl fluoride in aqueous suspension-free radical system with 1,1,2,- trichorotrifluoroethane as an accelerator. 3,437,648, 4-8-69, Cl. 260-92.1
Dietrich, Joseph J.: *See—*
McCain, George H.; Semancik, John R.; and Dietrich, Joseph J.,3,475,396.
Dietrich, Norman R., to Bell Telephone Laboratories, Incorporated. End launch stripline-waveguide transducer. 3,483,489, 12-9-69, Cl. 333-21.
Dietrich, Roland, to Kalle Aktiengesellschaft. Process for the removal of tetrabromomethane from gases. 3,437,429, 4-8-69, Cl. 23-2.
Dietrich, Rolf; Ulffers, Dirk; and Warstat, Hans, to Zeiss Ikon Aktiengesellschaft. Photoelectric exposure meter. 3,445,170, 5-20-69, Cl. 356-226.
Dietrich, Rudolf; and Zollner, Harry, to VEB Carl Zeiss Jena. Sighting telescopes having a luminous aiming mark. 3,481,658, 12-2-69, Cl. 350-10.
Dietrich, Walter; and Schrempp, Winfried, to International Standard Electric Corporation. Automatic character recognition arrangement. 3,478,315, 11-11-69, Cl. 340-146.3
Dietrich, Wilson G. Crash attenuation device. 3,443,824, 5-13-69, Cl. 280-150.
Dietsch, Hans E.; Gow, John, III; and Surty, Rohinton J., to International Business Machines Corporation. Method of continuously curing resistor elements. 3,458,352, 7-29-69, Cl. 117-227.
Dietsch, Jacques Jean Gustave, to Societe Anonyme des Etabblissements Leon Hatot. Vibrators. 3,474,270, 10-21-69, Cl. 310-25.
Dietz, Albert: *See—*
Lott, Harry, Jr.; Dietz, Albert; and Darr, Donald E.,3,468,689.
Wilson, William L.; Lott, Harry, Jr.; and Dietz, Albert,3,433,594.
Dietz, Carl: *See—*
Voster, Reinhold; and Dietz, Carl,3,483,585.
Dietz, Donald Albert, to Johns-Manville Corporation. Preformed floor surface article and method of applying same. 3,442,730, 5-6-69, Cl. 156-71.
Dietz, Donald Mars, to Du Pont de Nemours, E. I., and Company. Distillation recovery of meta- phenylenediamine. 3,428,531, 2-18-69, Cl. 203-80.
Dietz, Erich; Fuchs, Otto; Schinzel, Erich; and Wagner, Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Novel 1,2-phthalylcarbazole pigment dyestuffs. 3,420,843, 1-7-69, Cl. 260-316.
Dietz, Ernest W.: *See—*
Hamel, Harold R.; and Dietz, Ernest W.,3,439,315.
Dietz, Frederick E.: *See—*
Dietz, John F.; and Dietz, Frederick E.,3,425,626.
Dietz, Gerald E., to Penn Control, Inc. High voltage spark generator from low voltage supply. 3,457,456, 7-22-69, Cl. 315-206.
Dietz, Helmut; Kuhrt, Friedrich; Lippmann, Hans-Joachim; and Schenk, Horst, to Siemens Aktiengesellschaft. Apparatus for electrodynamically forming solid bodies. 3,438,230, 4-15-69, Cl. 72-56.
Dietz, Henry. Shelters. 3,465,765, 9-9-69, Cl. 135-3.
Dietz, John F.; and Dietz, Frederick E. Drinking straw. 3,425,626, 2-4-69, Cl. 239-33.
Dietz, John W.; and McWhorter, John R., Jr., to Du Pont de Nemours, E. I., and Company. Catalytic hydrogenation of nitroalkanes to N- alkylhydroxylamines. 3,441,610, 4-29-69, Cl. 260-583.
Dietz, Milton S.: *See—*
Davison, Richard H.; and Dietz, Milton S.,3,464,332.
Dietz, Milton S., to Polaroid Corporation. Exposure control apparatus for photographic camera. 3,446,128, 5-27-69, Cl. 95-10.
Dietz, Milton S., to Polaroid Corporation. Combined viewfinder and photometer for photographic apparatus. 3,455,220, 7-15-69, Cl. 95-10.
Dietz, R. E., Company: *See—*
Dawson, Robert D., 3,425,056.
Dawson, Robert E., 3,427,610.
Leeder, Harry A., Jr., 3,452,248.
Nitsch, Edward J.; and Tienken, Alfred G., 3,448,259.
Nitsch, Edward J.; and Stahl, John F., 3,484,598.
Steltzer, Ernest R.; Nitsch, Edward J.; and Stube, Fred F., 3,443,085.
Dietz, Thomas J.; and Meissner, William E., to FMC Corporation. Container molding, filling and sealing apparatus. 3,460,198, 8-12-69, Cl. 18-5.
Dietz, Thomas R.; and Gordon, Charles R., to Heppenstall Company. Electro-chemical machining electrode. 3,436,331, 4-1-69, Cl. 204-224.
Dietz, Wolfgang F. W., to RCA Corporation. Electron beam deflection and high voltage generation circuit. 3,452,244, 6-24-69, Cl. 315-27.
Dietz, Wolfgang F., to RCA Corporation. Electron beam deflection circuit. 3,449,623, 6-10-69, Cl. 315-27.
Dietz, Wolfgang: *See—*
Helmberger, Hermann; Dietz, Wolfgang; Gutberlet, Fritz; Hermann, Hans; and Wittmann, Hans, a/k/a Wittmann, Johan,3,421,054.
Dietze, Manfred: *See—*
Albrecht, Werner; Dietze, Manfred; Kraft, Wolfgang; and Ullrich, Hansjurgen,3,440,019.
Dietze, Manfred; Kraft, Wolfgang; Scheller, Hans; and Ullrich, Hansjurgen, to Vickers-Zimmer Aktiengesellschaft, Planung und Bau von Industrieanlagen. Polycondensation reactor. 3,466,150, 9-9-69, Cl. 23-285.
Dietzel, Walter: *See—*
Kaether, Willy; and Dietzel, Walter,3,475,214.
Dietzgen, Eugene, Co.: *See—*
Brownscombe, Philip J., 3,480,358.
Dietzler, Andrew J.; and Bradley, Kenneth B., to Dow Chemical Company, The. Method for selectively brominating phenols. 3,449,443, 6-10-69, Cl. 260-623.
Dietzler, Andrew J.: *See—*
Noddings, Charles R.; and Dietzler, Andrew J.,3,420,887.
Dieval, Michel; Dupoux, Jean; Joffre, Henri; and Pradel, Jacques, to Commissariat a l'Energie Atomique. Method and apparatus for analysing radioactive aerosols. 3,448,269, 6-3-69, Cl. 250-83.6
Diez, Adolf, to Schmidt, Karl, G.m.b.H. Method and apparatus for scooping up molten metals. 3,428,217, 2-18-69, Cl. 222-1.
Diez-Vilches, Antonio: *See—*
Vian-Ortuno, Angel; Jimenez-Gomez, Segundo; and Diez-Vilches, Antonio,3,453,072.
Difco Laboratories, Incorporated: *See—*
Kuyper Norbert T., 3,445,149.
Difford, Le Roy A., to Evans, Chandler, Inc. Three-gear pump with movable elements having plurality of sealing forces. 3,427,985, 2-18-69, Cl. 103-126.

Difford, Le Roy A.: *See—*
Noell, Godwin L.; and Difford, Le Roy A.,3,429,270.
Difford, LeRoy A.; Grennan, Charles W.; and Moorcroft, David L., to Evans, Chandler, Inc. Gear pump with abrasive resistant sealing elements. 3,483,825, 12-16-69, Cl. 103-126.
Diffraction Limited, Inc.: *See—*
Walther, Adriaan, 3,453,035.
Di Fiore, Lucio: *See—*
Barilli, Filippo; Di Fiore, Lucio; and Reni, Cesare,3,454,645.
Diggins, Thomas; Carini, Alexander; and Boynton, Kenneth. Two liquid measuring devices. 3,438,386, 4-15-69, Cl. 137-154.
Digi-Data Corporation: *See—*
Lyhus, Arlan J., 3,424,390.
Digiac Corporation: *See—*
Lubkin, Samuel; and Sherry, Robert Seymour, 3,456,242.
Di Giacomo, Angelo A.: *See—*
Gorand, Alfred J.; and Di Giacomo, Angelo A.,3,449,211.
di Giacomo, Eugene P.: *See—*
Carmichael, Keith S.; and di Giacomo, Eugene P.,3,442,372.
Di Giambattista, Vincent N., to Penn Nuclear Corporation. Apparatus and process for producing powdered metal from ductile elemental metal or alloys thereof. 3,434,669, 3-25-69, Cl. 241-16.
Digilio, Frank A., to Honeywell Inc. Spring actuator arrangement. 3,460,753, 8-12-69, Cl. 234-109.
Di Giorgio, Rocco F., to Progressive Research Corporation. Adapter for windshield wiper. 3,428,992, 2-25-69, Cl. 15-250.04
Digital Data Systems, Inc.: *See—*
Siems, Lee E.; and Reeves, W. Clay, 3,466,596.
Digital Devices, Inc.: *See—*
Lindemann, Robert E., 3,475,705.
Digital Equipment Corporation: *See—*
Illingworth, Lewis, 3,484,708.
Sogge, Richard G., 3,480,768.
Sutton, Jonel D., 3,465,175.
Digitronics Corporation: *See—*
Flieg, Werner, 3,441,944.
Marino, Francis C., 3,449,593.
Marino, Francis C.; and Simon, Herman, 3,472,449.
Marino, Frank C.; and Wolf, Edgar, 3,449,720.
Wolf, Edgar; Lau, Edward H.; and Berezin, Evelyn, 3,461,552.
Wolf, Edgar; Worster, David E.; and Marino, Francis C., 3,466,550.
Wolf, Edgar; Marino, Francis C.; Simon, Herman; and Kummer, Daniel F., 3,472,448.
Di Giulio, Albert J., to Addressograph-Multigraph Corporation. Manual control for copying machine. 3,486,819, 12-30-69, Cl. 355-14.
Di Giulio, Edmund M.: *See—*
Carsello, Anthony J.; and Di Giulio, Edmund M.,3,452,836.
Di Giulio, Edmund M.; Jurgens, John, Jr.; and Peterson, Niels G., to Mitchell Camera Corporation. Intermittent film movement and registration. 3,420,422, 1-7-69, Cl. 226-55.
Di Giulio, Enzo: *See—*
Portolani, Augusto; Di Giulio, Enzo; and Milano, Mario,3,427,183.
Di Giulio, Walter. Method and apparatus for determining the thyroid hormone content of blood. 3,451,777, 6-24-69, Cl. 23-230.
Dignam, John E. Automatic fuel oil level control for supply to an oil burner. 3,424,193, 1-28-69, Cl. 137-389.
Dijken, Reinder Hendrik; Jager, Jolle; and Krikke, Minne, to North American Philips Company, Inc. Vibration damping suspension for an electric motor. 3,432,701, 3-11-69, Cl. 310-47.
Dijkers, Johannes L. C.; and Michielsen, Ludovicus, to Shell Oil Company. Method and apparatus for the ultrasonic welding of thermoplastic films. 3,459,610, 8-5-69, Cl. 156-73.
Dijkstra, Rinse; and Pasman, Pieter Hans, to North American Philips Company Inc. Method of converting an epoxy resin into the infusible state. 3,428,601, 2-18-69, Cl. 260-47.
Dijkstra, Tette J.; and Vogelzang, Edward J. W., to Shell Oil Company. Process for flame proofing polyepoxide and resulting products. 3,477,982, 11-11-69, Cl. 260-27.
Dike, Inc.: *See—*
Bok, Edward, 3,463,598.
Bok, Edward, 3,486,830.
Dike, Roy W., to Continental Can Company, Inc. Integral plastic container and carrying handle. 3,441,172, 4-29-69, Cl. 220-94.
Dike-O-Seal, Incorporated: *See—*
Olson, Richard L., 3,429,360.
Olson, Richard L., 3,460,607.
Dikoff, Joseph K. Shoe for a hand-held iron. 3,435,548, 4-1-69, Cl. 38-97.
Dikotter, Gerardus P.; Schaapveld, Arnoldus A. W.; and Franssen, Pierre J., to Stamicarbon N.V. Stabilization of polyamides. 3,428,597, 2-18-69, Cl. 260-45.75
Dilchert, Heinz; Cramm, Rudolf; and Fibranz, Joachim, to Dynamit Nobel Aktiengesellschaft. Multistage solid fuel rocket propulsion unit for the placing of depth charges. 3,442,084, 5-6-69, Cl. 60-250.
Di Lemme, Philip. Window lock. 3,438,153, 4-15-69, Cl. 49-451.
DiLeone, Roland Ralph, to American Cyanamid Company. Process for the preparation of thermoplastic polymers prepared by reacting diepoxide monomers with aromatic diisocyanates. 3,471,442, 10-7-69, Cl. 260-47.
DiLeone, Roland Ralph, to American Cyanamid Company. Process for purifying crude 3,4-dicarboxy-1,2,3,4- tetrahydro-1-naphthalene succinic dianhydride com- prising recrystallizing said dianhydride from an acetonitrile solution. 3,472,875, 10-14-69, Cl. 260-346.3
Di Leone, Roland Ralph: *See—*
Petropoulos, John Christos; and Di Leone, Roland Ralph,3,444,184.
Di Leva, Anthony Joseph, 50% interest to Chamberlain, Darwin G. Swimming figurine with steering means and propulsion motor. 3,464,154, 9-2-69, Cl. 46-247.
Dilger, Lawrence; and Ashford, Ernest Stanley, to Veeder Industries Inc. Fuel dispensing apparatus control system. 3,478,854, 11-18-69, Cl. 194-3.
Dilks, Harold R., to Federal-Mogul Corporation. Grinding wheel construction. 3,482,355, 12-9-69, Cl. 51-74.
Dill, Charles L., Jr., to Long, Edward M. Auxiliary safety magnetic lighting circuit for vehicles. 3,430,100, 2-25-69, Cl. 315-78.
Dill, Charles L., Jr., to Long, Edward M. Continuous headlamp lighting with generator power during vehicle operation. 3,447,029, 5-27-69, Cl. 315-80.
Dill, Dale Robert, to Monsanto Company. Vinyl resin compositions. 3,451,961, 6-24-69, Cl. 260-31.8
Dill, Dale R.; and Van Eenam, Donald N., to Monsanto Company. Cellulosic webs treated with a derivative of an alkyl vinyl ether/maleic anhydride interpolymer. 3,442,698, 5-6-69, Cl. 117-155.
Dill, Hans G., to Hughes Aircraft Company. Field effect device with overlapping insulated gates. 3,454,844, 7-8-69, Cl. 317-235.
Dill, Hans G., to Hughes Aircraft Company. Gate cooling structure for field effect transistors. 3,457,476, 7-22-69, Cl. 317-235.
Dill, Robert F. Method and joint structure in monolithically- poured concrete. 3,440,934, 4-29-69, Cl. 94-18.
Dill, Robert F. Means and method for inserting joint forming structure. 3,463,061, 8-26-69, Cl. 94-39.
Dillard, James W.; and Doores, Vernon R. Automatic transmission system. 3,431,798, 3-11-69, Cl. 74-688.
Dillard, Robert D.: *See—*
Cassady, Donald R.; Dillard, Robert D.; and Easton, Nelson R.,3,436,402.
Dillard, Robert D.; and Easton, Nelson R., to Lilly, Eli, and Company. Synthesis of β,β-alkyl pyrrolidines. 3,452,015, 6-24-69, Cl. 260-250.
Dillarstone, Alan, to Colgate-Palmolive Company. Pressurized dispensing device. 3,451,593, 6-24-69, Cl. 222-130.
Dillberg, Raymond E.: *See—*
Miller, Frank R.; and Dillberg, Raymond E.,3,461,558.
Dille, James M.; Stiefel, Frank J.; and Meyer, Mervin, to Carter-Wallace, Inc. Certain 2-iminobarbituric acids. 3,428,638, 2-18-69, Cl. 260-256.4
Dille, Kenneth L.: *See—*
Bialy, Jerzy J.; and Dille, Kenneth L.,3,449,096.
Heisler, Robert Y.; Dille, Kenneth L.; Fontaine, Marc F.; and Eckert, George W.,3,421,867.
Dille, Roger M.: *See—*
Paull, Peter L.; Klein, John A.; and Dille, Roger M.,3,473,903.
Dillehay, David R., to Thiokol Chemical Corporation. Electro-monitoring method and apparatus. 3,426,643, 2-11-69, Cl. 86-1.
Dillenburger, Wolfgang, to Fernseh G.m.b.H. Television camera tube apparatus. 3,424,938, 1-28-69, Cl. 315-11.
Dillingham Corporation: *See—*
Bunch, Russell W.; and Cousins, Richard C., 3,447,222.
Dillingham, Edward; Caldwell, William W.; and De Vore, William W., to Advance Data Systems Corporation. Ticket handling apparatus. 3,472,373, 10-14-69, Cl. 209-73.
Dillman, Norman G., to North American Rockwell Corporation. Photosensitive semiconductor device for obtaining light source position data. 3,445,667, 5-20-69, Cl. 250-211.
Dillman, Norman G., to North American Rockwell Corporation. Photodetector responsive to light intensity in different spectral bands. 3,478,214, 11-11-69, Cl. 250-211.
Dillon, Helen T.; and Dabrowski, John H., to said Dillon. Educational skill-building apparatus. 3,425,140, 2-4-69, Cl. 35-36.
Dillon, Joseph F., Jr.; Johnson, Leo F.; and Remeika, Joseph P., to Bell Telephone Laboratories, Incorporated. Solid state laser. 3,480,877, 11-25-69, Cl. 331-94.5
Dillon, Joseph F., Jr.; Le Craw, Roy Conway; von Philipsborn, Henning; and Wernick, Jack H., to Bell Telephone Laboratories, Incorporated. Method of growing $CdCr_2Se_4$ crystals. 3,480,409, 11-25-69, Cl. 23-315.
Dillon, Luke, Jr., to RCA Corporation. Integrated arrangement for integrated circuit structures. 3,473,094, 10-14-69, Cl. 317-235.
Dillon, Peter: *See—*
Rogers, Ernest William; Dillon, Peter; and Mitchell, Christopher Richard,3,480,871.

Dillon, Rosemary A. Sanitary napkin. 3,477,433, 11-11-69, Cl. 128-290.
Dillon, Stephen V. Bead type coupling for plain end pipe joint. 3,456,963, 7-22-69, Cl. 285-39.
Dillon, Stephen V. Protective bolt and nut assemblies. 3,457,823, 7-29-69, Cl. 85-1.
Dillon, Thomas J.: *See—*
Bocckino, Harry G.; Dillon, Thomas J.; and Fisher, John F. Villiers,3,450,804.
Dillon, W. C., & Company, Inc.: *See—*
Schultheis, Harry B., Jr., 3,460,382.
Dills, Raymond L.: *See—*
Hurko, Bohdan; and Dills, Raymond L.,3,428,435.
Dills, Raymond L., to General Electric Company. Domestic oven with removable wall panels. 3,425,405, 2-4-69, Cl. 126-19.
Dills, Raymond L., to General Electric Company. Thermal breaking means for front of baking oven. 3,440,401, 4-22-69, Cl. 219-393.
Dills, Reuben H.; and Wilson, Earl, to Sales & Services Inc. Handle grip for shopping bags. 3,486,684, 12-30-69, Cl. 229-54.
Dilmine S.p.A.: *See—*
Groppini, Diego, 3,483,728.
Dilot, Rolf Magnus: *See—*
Hakansson, Jan Torsten; and Dilot, Rolf Magnus,3,451,317.
Dilullo, Luciano L. Tiltable table for an umbrella. 3,434,484, 3-25-69, Cl. 135-16.
Dimaggio, Anthony H., III: *See—*
Petterson, Robert C.; and Dimaggio, Anthony H., III,3,481,850.
Di Marcello, Frank V.; and Treptow, Arnold W., to Bell Telephone Laboratories, Incorporated. Glaze for high density alumina. 3,470,002, 9-30-69, Cl. 106-49.
Di Marco, Bernard, to I-T-E Imperial Corporation, mesne. Contactor electromagnet. 3,451,018, 6-17-69, Cl. 335-131.
Di Marco, Bernard, to I-T-E Imperial Corporation. Polarized electromagnet. 3,460,079, 8-5-69, Cl. 335-230.
Di Marco, Bernard: *See—*
Kussy, Frank W.; and Di Marco, Bernard,3,437,885.
Di Marco, Gabriel Robert; Hogan, John F., Jr.; Schulman, Hyman L.; and Strandskov, Frede B., 1/2 to Schaeffer, F. & M., Brewing Co., The, and 1/2 to Washine Chemical Corporation. Method for preserving canned foodstuffs. 3,443,972, 5-13-69, Cl. 99-182.
DiMarco, Joseph N.: *See—*
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John,3,441,775.
Dimeff, John, to United States of America, National Aeronautics and Space Administration. Cryogenic apparatus for measuring the intensity of magnetic fields. 3,437,919, 4-8-69, Cl. 324-43.
Dimeff, John, to United States of America, National Aeronautics and Space Administration. Inertial reference apparatus. 3,455,171, 7-15-69, Cl. 73-505.
Di Meglio, Joseph E., to Leesona Corporation. Winding machine. 3,445,074, 5-20-69, Cl. 242-27.
Dimeler, Glenn R.: *See—*
Bravo, Justo B.; and Dimeler, Glenn R.,3,428,490.
Mills, Ivor W.; and Dimeler, Glenn R.,3,462,358.
Dimen, James: *See—*
Grandinetti, Attilio; Curd, Ralph B.; and Dimen, James,3,424,635.
Dimensional Products, Inc.: *See—*
Falkenberg, Gustave F., 3,430,817.
Di Meo, Frank N., to Litton Precision Products, Inc. D. C. synchro. 3,452,260, 6-24-69, Cl. 318-24.
Di Meo, Frank N. Litton Precision Products, Inc. Successive approximation rotary angle to digital converter. 3,480,946, 11-25-69, Cl. 340-347.
Dimick, Keene P.; Hartmann, Charles H.; Oaks, Dudley M., Jr.; and Trone, Elmer, to Varian Associates. Thermionic detector for gas chromatography. 3,423,181, 1-21-69, Cl. 23-254.
Di Mico Corp., Ltd.: *See—*
Divine, William J.; and Hood, Richard G. P., 3,428,378.
Di Millo, Luigi. Dispenser for products contained in collapsible tubes. 3,450,309, 6-17-69, Cl. 222-103.
Dimitracopoulos, Panayotis C., to A. V. Corporation, The, N.V. Audiovisual apparatus. 3,480,356, 11-25-69, Cl. 353-19.
Dimitrov, Milko Dimitrov, to DSO Tejko I Obshto Mashinostroene. Bobbin-handling mechanism. 3,458,984, 8-5-69, Cl. 57-53.
Dimmig, Clarence F., to Columbia-Summerill Corporation, mesne. High pressure fuel line heads and the like. 3,449,937, 6-17-69, Cl. 72-318.
Dimon, Donald F., to Infinite Q Corporation. Temperature measurement system. 3,421,375, 1-14-69, Cl. 73-362.
Dimond, Harold L.; Hurley, Daniel J.; and Pascarella, Vincent J., to Gulf Research & Development Company. Process for preparing alkene sulfonates. 3,487,104, 12-30-69, Cl. 260-513.
Dimond, Harold L.; and Pascarella, Vincent J., to Gulf Research & Development Company. Process for decolorizing sulfonate containing detergents. 3,461,053, 8-12-69, Cl. 204-162.
Dimond, Robert M.; and Payne, Howard H. Rocket assisted projectile with movable piston base plate. 3,434,419, 3-25-69, Cl. 102-49.3
Di Monico, George S.: *See—*
Lovas, Stephen P.; and Di Monico, George S.,3,422,712.
Di Motta, Benito. Tiltable electric game box. 3,452,987, 7-1-69, Cl. 273-110.
Dimroth, Peter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pigments comprising metal derivatives of complex Schiff's bases. 3,441,578, 4-29-69, Cl. 260-429.
di Muzio, Leonard A. Finger and wrist developer. 3,443,471, 5-13-69, Cl. 84-465.
Dinbergs, Kornelius; and Yanko, John A., to Goodrich, B. F., Company, The. N-nitrosophenylhydroxylamine as short stopping agents for redox polymerizations. 3,475,390, 10-28-69, Cl. 260-80.7
Dine, Lester A.; and Lemmey, Edgar S. Lectern-projector combination. 3,472,588, 10-14-69, Cl. 353-42.
Dineen, John: *See—*
Kennedy, Merritt T., Jr.; and Dineen, John,3,460,988.
Dinerman, David. Vehicle repair device. 3,477,269, 11-11-69, Cl. 72-292.
Dines, Charles E., to Elliott Brothers (London) Limited. Boiler control apparatus. 3,481,538, 12-2-69, Cl. 236-24.5
DiNetta, Joseph; and Egerton, John R., to Merck & Co., Inc. Compositions and methods for treating helminthiasis comprising combinations of organo-phosphates and certain dibenzocycloheptenes. 3,484,520, 12-16-69, Cl. 424-200.
Dingemans, Simon; and Slot, Willem, to Stamicarbon N.V. Method of precipitating calcium sulfate from an acidulated phosphate rock slurry. 3,429,686, 2-25-69, Cl. 71-39.
Dinger, Edward H., to General Electric Company. Selected gain control system. 3,441,825, 4-29-69, Cl. 318-313.
Dinger, Edward H., to General Electric Company. Inverter commutation circuit. 3,453,524, 7-1-69, Cl. 321-5.
Dinger, Edward H., to General Electric Company. Saturable transformer with inherent voltage reference level due to core design. 3,454,867, 7-8-69, Cl. 323-44.
Dinger, Edward H., to General Electric Company. Power semiconductor gating circuit. 3,471,716, 10-7-69, Cl. 307-268.
Dinger, Edward H.; and McNair, Willie L., to General Electric Company. Full-wave inductive load control. 3,422,332, 1-14-69, Cl. 318-331.
Dinger, Hans; and Deutschmann, Herbert, to Daimler-Benz Aktiengesellschaft. Injection moment adjustable connection for injection pumps of internal combustion engines. 3,478,542, 11-18-69, Cl. 64-24.
Dinges, Karl; and Mueller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Cross-linkable copolymer dispersions. 3,467,614, 9-16-69, Cl. 260-29.6
Dinges, Karl: *See—*
Muller, Erwin; and Dinges, Karl,3,433,835.
Ott, Karl-Heinz; Knapp, Karl-Heinrich; Dinges, Karl; and Roehr, Harry,3,442,979.
Weitzel, Hans; Dinges, Karl; and Rohr, Harry,3,449,471.
Dinges, Margaret V., to Polymer Incorporated. Bag holder and dispenser. 3,454,166, 7-8-69, Cl. 211-57.
Dingfeld, Albert Vincent: *See—*
Thorne, Benjamin Graham; Lyons, Harold James; and Dingfeld, Albert Vincent,3,441,107.
Dingley, Alan J., to Mobil Oil Corporation. Method for determining the approach of a combustion front adjacent a production well. 3,467,189, 9-16-69, Cl. 166-251.
Dingley, Regoer Gavin: *See—*
Friedl, Arno Rudolph; and Dingley, Regoer Gavin,3,476,503.
Dingley, Roger Gavin: *See—*
Friedl, Arno Rudolph; and Dingley, Roger Gavin,3,437,519.
Dingman, Edward H. Apparatus for passing flowing air about a bed occupant at selective temperatures. 3,444,922, 5-20-69, Cl. 165-26.
Dingwall, Andrew G. F., to Radio Corporation of America. Method of fabricating semiconductor devices. 3,437,533, 4-8-69, Cl. 148-187.
Dingwall, Andrew G. F., to United States of America, Atomic Energy Commission, mesne. Thermoelectric assembly having a prepunched metal foil connector. 3,449,172, 6-10-69, Cl. 136-202.
Dingwall, Andrew G. F., to RCA Corporation. Thermoelectric device with graphite elements. 3,451,858, 6-24-69, Cl. 136-205.
Dingwall, Andrew G. F., to RCA Corporation. Thermoelectric device with embossed graphite member. 3,485,679, 12-23-69, Cl. 136-205.
Dingwall, Andrew G. F.; and Wilde, Dale K., to Radio Corporation of America. Thermoelectric device having a graphite member between thermoelement and refractory hot strap. 3,442,718, 5-6-69, Cl. 136-205.
Dingwall, Robert P., to International Business Machines Corporation. Pulse width sensitive magnetic head with associated binary identification circuit. 3,434,131, 3-18-69, Cl. 340-174.1
Dingwall, Robert P.; and Marcar, Haik, to International Business Machines Corporation. Magnetic display device. 3,426,453, 2-11-69, Cl. 35-61.
Dinnerstein, Albert. Electrically powered mobile. 3,456,762, 7-22-69, Cl. 185-40.
Di Noia, Emanuel J., to Universal Oil Products Company. Cyogenic resistance temperature detector. 3,436,713, 4-1-69, Cl. 338-28.

Di Noia, Emanuel J.; and Breunich, Theodore R., to Universal Oil Products Company. Rate of climb and descent readout device. 3,421,370, 1-14-69, Cl. 73-179.
Dinamore, D. J., Company: *See—*
Wood, Edward H., 3,475,864.
Dinter, Henry A., to Honeywell Inc. Control apparatus. 3,429,190, 2-25-69, Cl. 74-5.6
Dinter, Herbert, to Avery Products Corporation. Applicator for pressure-sensitive adhesive labels. 3,483,059, 12-9-69, Cl. 156-364.
Dinter, Herbert. Label dispenser with constant tension means. 3,485,414, 12-23-69, Cl. 221-73.
Dinter, Konrad. Selective-frequency powerline load control. 3,448,361, 6-3-69, Cl. 318-55.
Dinwoodie, Andrew Harper: *See—*
Currie, Andrew Cochran; and Dinwoodie, Andrew Harper,3,468,903.
Dinwoodie, Andrew Harper; and Fort, Godfrey, to United States of America, Navy, mesne. Difluoraminated urea derivatives. 3,470,170, 9-30-69, Cl. 260-244.
Dinwoodie, Andrew Harper; and Fort, Godfrey, to United States of America, Navy, mesne. Nitro-derivatives of uron and urea. 3,474,092, 10-21-69, Cl. 260-244.
Dinwoodie, Andrew Harper; Fort, Godfrey; and Parker, James Brown, to Imperial Chemical Industries Limited. Difluoramino compounds. 3,431,261, 3-4-69, Cl. 260-249.6
Dinwoodie, Andrew Harper; Fort, Godfrey; and Thompson, James McAllan Cormack, to United States of America, Navy, mesne. Imidazolidine derivatives. 3,461,134, 8-12-69, Cl. 260-309.7
Dinwoodie, Andrew Harper; and Thompson, James Mc Allan Cormack, to United States of America, Navy, mesne. 4,5-Dihydroxy 4,5-dimethoxy and 4,5-diethoxy 2-nitriminoimidazolidines derivatives. 3,472,867, 10-14-69, Cl. 260-309.7
Dinwoodie, Andrew Harper; and Thompson, James McAllan Cormack, to United States of America, Navy, mesne. 4-Difluoramino-5-alkoxy-2-nitriminoimidazolidines. 3,449,358, 6-10-69, Cl. 260-309.7
Dioguardi, John: *See—*
Egeland, Haakon G.; and Dioguardi, John,3,447,665.
Diolot, Lucien, to Societe Nouvelle Spiden. Mounting of shafts for a machine for shaping metallic bands. 3,435,652, 4-1-69, Cl. 72-180.
Diolot, Lucien, to Societe Nouvell Spidem. Rolling mills. 3,442,109, 5-6-69, Cl. 72-240.
Diolot, Lucien, to Societe Nouvelle Spidem. Rolling mill. 3,468,151, 9-23-69, Cl. 72-234.
Diolot, Lucien, to Societe Nouvelle Spiden. Flying cutter with camway controlled actuating means. 3,469,484, 9-30-69, Cl. 83-294.
Diolot, Lucien, to Societe Nouvelle Spidem. Jacks and applications thereof. 3,483,797, 12-16-69, Cl. 91-5.
Dion, Fernand. Articulated motor vehicle. 3,473,619, 10-21-69, Cl. 180-9.44
Dion, Gerald H.: *See—*
Newman, Stanley F.; Dion, Gerald H.; and Cwycyshyn, Walter,3,441,691.
Dion, Paul A.; and Carr, Martin W., to Texas Instruments, Incorporated. Manufacture of clad wire and the like. 3,455,016, 7-15-69, Cl. 29-474.1
Dion, Paul A.; and Thomson, Arthur James, to Texas Instruments, Incorporated. Manufacture of clad wire and the like. 3,444,603, 5-20-69, Cl. 29-33.
Dionisotti, Jean; and Boehler, Philippe, to Societe des Ciments Portland de Saint-Maurice, S.A. Cooling and suction device of an installation comprising a furnace having at one side a burner producing a flow of hot gases and at the other side a distributor of material to be boiled. 3,442,496, 5-6-69, Cl. 263-32.
Di Palma, Sebastian M.: *See—*
Paige, John L.; and Di Palma, Sebastian M.,3,437,645.
Di Paola, Joel F., to General Electric Company. Acyloxyaminosilanes. 3,458,556, 7-29-69, Cl. 260-448.8
di Paolo, Rocco J. Nursing nipple with flow regulating means. 3,424,157, 1-28-69, Cl. 128-252.
Di Pasquale, Gene; and Reisz, Peter. Electromechanical copyholder and presenting device. 3,449,849, 6-17-69, Cl. 40-343.
Diperstein, David, to Testing Systems, Inc. Flaw detection fluid and method for detecting flaws in solid surfaces. 3,456,110, 7-15-69, Cl. 250-71.
Di Piazza, Gerald C., to Bell Telephone Laboratories, Incorporated. Test fixture for measuring impedance parameters of diodes operated at microwave frequencies. 3,452,279, 6-24-69, Cl. 324-158.
Di Pietro, Carmelo V. Deep fat fryer. 3,430,553, 3-4-69, Cl. 99-336.
Di Pietro, Joseph, to Celanese Corporation. Interpolymers of a branched chain alpha-olefin and a diolefin having internal, sterically hindered unsaturation. 3,481,909, 12-2-69, Cl. 260-80.78
Di Piro, Joseph, to United Aircraft Corporation. In-flight pressure refueling probe and actuation system. 3,421,717, 1-14-69, Cl. 244-17.11
Dipner, Charles D., to Johnson & Johnson. Disposable surgical drapes. 3,423,277, 1-21-69, Cl. 161-118.
Dippelhofer, Robert: *See—*
Schnegg, Robert; Pelousek, Herbert; Dippelhofer, Robert; Nordt, Herbert; and Dortmann, Heinz-Adolf,3,449,297.
Diprose, Kenneth Victor; and Forbes, Arthur Stuart, to Hancock & Co. (Engineers) Limited. Photoelectric line follower employing coordinate drive motors and a circular scan. 3,431,419, 3-4-69, Cl. 250-202.
Dircks, Alexander Douglas: *See—*
Chaikin, Malcolm; Dircks, Alexander Douglas; and Rokfalusy, Desmond Michael,3,445,896.
Dirian, Gregoire: *See—*
Chemla, Marius; Dirian, Gregoire; and Perie, Michele,3,447,898.
Dirilgen, Necdet, to Swiss Aluminium Ltd. Welded light-metal corner construction. 3,429,602, 2-25-69, Cl. 287-189.36
Dirk, William R.; and Parker, Sidney A., to Lennox Industries Inc. Hermetic compressor construction. 3,462,075, 8-19-69, Cl. 230-232.
Dirks, Francis M. Waste and vent pipes. 3,423,771, 1-28-69, Cl. 4-211.
Dirks, Gerhard. Apparatus for sorting of recorded digital data. 3,444,523, 5-13-69, Cl. 340-172.5
Dirks, Gerhard. Storage device. 3,448,214, 6-3-69, Cl. 178-17.5
Dirks, Jerald Edson: *See—*
Fisher, Gene Jordan; and Dirks, Jerald Edson,3,458,406.
Dirks, Jerald Edson; and Fisher, Gene Jordan, to Celanese Corporation. Reduction of chlorinated by-products in ethylene- based vinyl acetate catalyst solution. 3,432,543, 3-11-69, Cl. 260-497.
DiRosa, Gaetano, to Soc. F.A.T.A. S.R.L. Conveyor with drive release. 3,472,177, 10-14-69, Cl. 104-172.
Di Rosa, Gaetano, to Soc. F.A.T.A. S.R.L. Conveyor switch mechanism. 3,474,738, 10-28-69, Cl. 104-130.
Dirrim, Patricia A. Method for making throw rug. 3,484,316, 12-16-69, Cl. 156-63.
Dirubbo, Angelo, to A & D Fabricating Company, Inc. Flexible door with spaced leaf springs. 3,420,290, 1-7-69, Cl. 160-354.
Dirzius, Bennie F. Hollow drill sharpener. 3,439,565, 4-22-69, Cl. 76-82.
Di Salvo, Walter Anthony; and Schrager, Jerome Stanley, to Colgate-Palmolive Company. Olefin sulfonates. 3,420,875, 1-7-69, Cl. 260-513.
Disbrow, Richard A.: *See—*
Turner, George L.; Johnson, Gerould A.; Disbrow, Richard A.; and Nestell, Donald E.,3,432,102.
Turner, George L.; Johnson, Gerould A.; and Disbrow, Richard A.,3,448,928.
Disc Pack Corporation: *See—*
David, Charles W.; and Munson, Eugene A., 3,479,222.
Dischert, Robert A.; and Hobson, Norman L., to Radio Corporation of America. Coordinated sensitivity and amplification control system. 3,445,590, 5-20-69, Cl. 178-7.2
Dischler, Helmut: *See—*
Huydts, Eduard; and Dischler, Helmut,3,482,463.
Disco Engineering, Inc.: *See—*
Henson, Artel R., 3,474,721.
Discry, Henri, to Glaverbel S.A. Apparatus for the production of ribbed glass sheets. 3,459,525, 8-5-69, Cl. 65-245.
Diser, Birger: *See—*
Linderholm, Sven; and Diser, Birger,3,445,903.
di Serio, Vincent B.: *See—*
Mack, Donald; and di Serio, Vincent B.,3,424,048.
di Settembrini, Antoine. Device for handling objects on a conveyor. 3,424,209, 1-28-69, Cl. 141-168.
Di Settembrini, Antoine. Device for filling containers of semi-rigid or soft material such as plastic bottles. 3,450,172, 6-17-69, Cl. 141-59.
Dishburger, Henry J.; and Coker, William P., to Dow Chemical Company, The. Cationic starch compositions and a method of preparation. 3,467,608, 9-16-69, Cl. 260-9.
Diskin, Mordechai; and David, Amnon. Apparatus for urinary bladder irrigation. 3,481,334, 12-2-69, Cl. 128-230.
Disko, Harry: *See—*
Barlow, Gordon A.; Kripak, Leonid; and Disko, Harry,3,445,959.
Glass, Marvin I.; and Disko, Harry,3,471,147.
Glass, Marvin I.; Disko, Harry; and Jernstrom, Hans E.,3,460,831.
Disko, Harry; Glass, Marvin I.; and Licitis, Gunars, to Glass, Marvin, & Associates. Phonograph device. 3,486,756, 12-30-69, Cl. 274-14.
Disko, Harry; Long, Thomas L.; and Glass, Marvin I., to Glass, Marvin, & Associates. Manually operated phonograph. 3,484,798, 12-16-69, Cl. 33-209.
Diskowski, Herbert: *See—*
Bender, Ludwig; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl,3,455,811.
Mehne, Arthur; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl,3,455,798.

Disley, Kenneth Thomas; Pearce, Roy George; Christopher, Leonard Henry; and Culver, Leonard James, to Foster Wheeler Corporation. Waste heat boilers. 3,441,006, 4-29-69, Cl. 122-7.
Dialich, Helmut; and Jacobsen, Alfred, to Jenaer Glaswerk Schott & Gen. Method of producing light-conducting systems. 3,480,458, 11-25-69, Cl. 117-8.
Dismukes, Glenn M. Support structure and method of fabrication. 3,436,890, 4-8-69, Cl. 52-660.
Dismukes, Wayne K. Foundation form spacer and sill fastener. 3,422,585, 1-21-69, Cl. 52-127.
Disney, Morton F., Jr.: *See—*
Cornell, William D.; Disney, Morton F., Jr.; and Hoffman, Paul R.,3,435,120.
Hoffman, Paul R.; Disney, Morton F., Jr.; Norgren, Edwin A.; and Cornell, William D.,3,484,107.
Disney, Virgil V.; and Ptasienski, Mitchell P., to United States Gypsum Company. Wallboard construction. 3,435,582, 4-1-69, Cl. 52-608.
Disselnkotter, Hans: *See—*
Kurtz, Peter; and Disselnkotter, Hans,3,424,791.
Dissing, Erik; and Lyden, Anders Gustaf, to Aktiebolaget Atomenergi. Current meter employing a logarithmic amplifier having compensation for two components of temperature induced error. 3,479,593, 11-18-69, Cl. 324-123.
Di Stasio, Joseph R. Apparatus for obtaining test cores. 3,442,481, 5-6-69, Cl. 249-117.
Di Stasio, Joseph R. Apparatus and method for obtaining test cores. 3,461,192, 8-12-69, Cl. 264-31.
Distenfeld, Carl H., to United States of America, Atomic Energy Commission. Thermoluminescent tissue equivalent dosimeter. 3,420,999, 1-7-69, Cl. 250-83.1
Distillers Company (Carbon Dioxide) Limited, The: *See—*
Crippen, Peter; and Evans, Arthur James, 3,455,486.
Crippen, Peter; and Evans, Arthur James, 3,455,487.
Godfrey, Gordon Reginald, 3,472,292.
Distillers Company Limited, The: *See—*
Auger, Frank Pawley, 3,452,595.
Bailey, Hubert Charles; Williamson, John Bentley; and Capp, Clifford William, 3,439,058.
Bethell, James Robert; Gasson, Edward James; Hadley, David James; and Neale, Roderick Frank, 3,435,069.
Bewley, Thomas, 3,467,721.
Capp, Clifford William; and Hadley, David James, 3,424,781.
Cooper, Leslie Ernest; and Pickup, Kenneth George, 3,431,311.
Dancer, Stuart Neil, 3,471,585.
Eagell, Eric Alec, 3,441,439.
Gintz, Francis Paul; Matthews, Richard Ohn Strachan; and Peirce, Goderey Malcolm, 3,444,152.
Hawkins, Edwin George Edward, 3,484,199.
Huddle, Francis Godfrey, 3,444,884.
Meredith, Rupert Frederick Keith; and Risdon, Edward James, 3,455,851.
Distler, Harry, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of bis-(β-hydroxyalkyl)-sulfones. 3,456,016, 7-15-69, Cl. 260-607.
Distler, Harry, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of N-acylethionimides. 3,461,121, 8-12-69, Cl. 260-243.
Dithmar, Karl; and Koblischek, Peter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Inorganic peroxidic bleaches activated with N,N'-diacyl-methylene-diformamide. 3,425,786, 2-4-69, Cl. 8-111.
Dithmar, Karl; and Koblischek, Peter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Colloidal solutions of extremely finely divided oxides which are stable on storage and process for the production thereof. 3,455,718, 7-15-69, Cl. 106-287.
Ditlinger, Richard J., to Bendix Corporation, The. Helicopter tie-bar. 3,434,373, 3-25-69, Cl. 74-581.
Ditlinger, Richard J.; and Toal, James J., to Bendix Corporation, The. End fitting for tie-bar. 3,475,988, 11-4-69, Cl. 74-579.
Ditrich,Gunter, to Chadbourn Gotham, Inc. Apparatus for closing stocking toes. 3,452,691, 7-1-69, Cl. 112-2.
Ditrick, Norman H.: *See—*
Dawson, Robert H.; Ditrick, Norman H.; and Mitchell, Muni M.,3,455,020.
Ditson, J. D.; and Cantrel, James F., to Ingersoll-Rand Company. Coupling and rod system for rock drills. 3,424,479, 1-28-69, Cl. 285-94.
Ditson, J D., to Ingersoll-Rand Company. Rock drill bit. 3,452,832, 7-1-69, Cl. 175-418.
Ditta G. D., Societa in Accomandita Semplice die Enzo Seragnoli ed Ariosto Seragnoli: *See—*
Seragnoli, Ariosto, 3,455,213.
Dittman, Paul E. Monocycle. 3,420,545, 1-7-69, Cl. 280-207.
Dittmann, David J., to Hercules Incorporated. Booster structure. 3,451,341, 6-24-69, Cl. 102-24.
Dittmann, Walter: *See—*
Gorke, Klaus; Hilpert, Richard; Schleimer, Bernhard; and Dittmann, Walter,3,442,675.
Dittmann, Walter; and Kramer, Horst, to Chemische Werke Huls Aktiengesellschaft. Polymers with high heat distortion temperatures prepared from epoxypolybutadiene hardened with polyols and anhydrides. 3,436,377, 4-1-69, Cl. 260-78.4
Dittmann, Walter; and Stork, Heinz, to Chemische Werke Huls Aktiengesellschaft. Process for the production of 3,4-epoxy-tetramethylene- sulfone. 3,420,850, 1-7-69, Cl. 260-332.1
Dittmann, Walter; and Sturzenhofecker, Franz, to Chemische Werke Huls Aktiengesellschaft. Process for the production of racemic (1S,4S,9R) (1R,4R,9S)-cis-decahydronaphthalene-diol-(1,4). 3,474,149, 10-21-69, Cl. 260-617.
Schleimer, Bernhard; and Dittmann, Walter,3,455,965.
Dittmann, William A., to Continental Can Company, Inc. Tandem blow molding apparatus. 3,457,590, 7-29-69, Cl. 18-5.
Dittmar, Armin: *See—*
Bulian, Walter; Feher, Franz; and Dittmar, Armin,3,474,028.
Dittmar, Charles A., to Xerox Corporation. Metal working. 3,460,296, 8-12-69, Cl. 51-320.
Dittrich, Ewald: *See—*
Gey, Werner; Philipp, Wolfgang; Dittrich, Ewald; Corsepius, Horst; and Bonders, Peter,3,451,900.
Dittrich, Ferdinand J.; and Shepard, Arthur P., to Metco, Inc. Flame spraying exothermically reacting intermetallic compound forming composites. 3,436,248, 4-1-69, Cl. 117-105.
Dittrich, Gunter N., to Malmedie & Co. Maschinenfabrik G.m.b.H. Wire straightener. 3,443,607, 5-13-69, Cl. 140-147.
Ditzer, Joseph R., Jr.; and Spangler, Fred W., to Eastman Kodak Company. Photographic element and process. 3,457,072, 7-22-69, Cl. 96-27.
Ditzer, Joseph R., Jr.; and Spangler, Fred W., to Eastman Kodak Company. Print-out silver halide emulsions containing acceptors in combination with development restrainers. 3,458,317, 7-29-69, Cl. 96-94.
Di Vecchio, Angelo N., to Kliklok Corporation. Method of forming and gluing a folding box cover comprising a continuous tear strip. 3,443,353, 5-13-69, Cl. 53-38.
Divecha, Amarnath P.; Hahn, Henry; and Lare, Paul J., to Melpar, Inc. Preparation of fiber-reinforced metal alloy composites by compaction in the semi-molten phase. 3,441,392, 4-29-69, Cl. 29-182.8
Divelbiss, Ivan A. Lawn mower. 3,457,710, 7-29-69, Cl. 56-25.4
Diver, John R., to Borg-Warner Corporation. Hydraulic pilot valve. 3,446,474, 5-27-69, Cl. 251-141.
Diversey Corporation, The: *See—*
Mickelson, Floyd L.; and Wilde, Arthur G., Jr., 3,448,055.
Mickelson, Floyd Louis; and Maisel, Eugene Frank, 3,457,107.
Wilde, Arthur G., Jr.; Maisel, Eugene F.; and Mickelson, Floyd L., 3,447,972.
Diversified Products Corporation: *See—*
Ammondson, Clayton J.; Cockrell, Eldridge H.; Silberman, Ira J.; and James, Forrest H., Jr., 3,464,692.
James, Forrest H., Jr., 3,463,486.
James, Forrest H., Jr., 3,482,834.
Silberman, Ira J., 3,427,023.
Di Veto, Hilliard R., to Burroughs Corporation. Free-positioning alignment bobbin. 3,424,391, 1-28-69, Cl. 242-55.12
Di Veto, Hilliard R.; and Hough, Allan W., to Burroughs Corporation. Servo loop control apparatus for monitoring and maintaining web tension. 3,424,392, 1-28-69, Cl. 242-55.12
Di Vico, Louis A.: *See—*
Muttick, Richard P.; Di Vico, Louis A.; and Kantrowitz, Philip,3,426,163.
Divine, Dwight, III, to International Business Machines Corporation. Range rate radar. 3,478,356, 11-11-69, Cl. 343-8.
Divine, George T. Frederick. Underwater trenching apparatus. 3,440,743, 4-29-69, Cl. 37-79.
Divine, Ralph Dettmer: *See—*
Backlund, Gerald Richard; Martino, Joseph Francis; and Divine, Ralph Dettmer,3,463,841.
Divine, Ralph Dettmer, to American Cyanamid Company. Process for upgrading malathion. 3,440,305, 4-22-69, Cl. 260-990.
Divine, Theodore C. Irrigation machine. 3,453,829, 7-8-69, Cl. 61-29.
Divine, William J.; and Hood, Richard G. P., to Di Mico Corp., Ltd. Miniature ball bearing. 3,428,378, 2-18-69, Cl. 308-193.
DiVita, Fosco L.; Simak, Frank J.; and D'Alessandro, Andrew N., to International Harvester Company. Seat suspension assembly. 3,486,417, 12-30-69, Cl. 91-216.
Di Vita, Sam: *See—*
Brandmayr, Ronald J.; and Di Vita, Sam,3,426,114.
Divivier, Urban: *See—*
Orth, Hans; Franz, Ludwig; and Divivier, Urban,3,460,497.
Diwag Chemische Fabriken G.m.b.H.: *See—*
Renwanz, Gerhard; Credner, Karl; and Glantz, Erika, 3,437,728.
Dix, James S.: *See—*
Bresson, Clarence R.; and Dix, James S.,3,424,800.
Dix, James S., to Phillips Petroleum Company. Aziridine production. 3,437,654, 4-8-69, Cl. 260-239.
Dix, James S., to Phillips Petroleum Company. Amination of aryl halides. 3,484,487, 12-16-69, Cl. 260-577.

Dix, Michael G.: *See—*
Kerwin, William J.; Dix, Michael G.; and Munoz, Robert M.,3,464,016.
Dix, Sydney, to GTI Corporation, mesne. Multiple heating unit. 3,465,116, 9-2-69, Cl. 219-85.
Dix, Sydney, to GTI Corporation, mesne. Apparatus for heating a micromodular package. 3,468,523, 9-23-69, Cl. 263-40.
Dix, Sydney; and Davis, David W., to GTI Corporation, mesne. Micromodular package with compression means holding contacts engaged. 3,423,638, 1-21-69, Cl. 317-101.
Dix, Willard A.; and Porter, Oswald M., to Singer Company, The. Shampooing attachments for reciprocating floor polishers. 3,441,969, 5-6-69, Cl. 15-98.
Dix, Willard A.: *See—*
Odermann, Charles R.; and Dix, Willard A.,3,477,082.
Smith, Charles W.; and Dix, Willard A.,3,425,081.
Dixie Chemical Products Co.: *See—*
Carney, Leroy L.; and Priest, Gerald G., 3,428,426.
Dixie-Narco, Inc.: *See—*
Oden, Kenneth W., 3,464,589.
Ural, William E., 3,463,355.
Dixon, Alan F.: *See—*
Legat, Wilhelm H.; and Dixon, Alan F.,3,486,087.
Dixon, Austin, to Westinghouse Electric Corporation. Induction heating device. 3,467,806, 9-16-69, Cl. 219-10.73
Dixon, Bernard; and Comrie, Alan A. D., to Enzymic Malt Company, Ltd., and Dixon Malt Company, Ltd. Malting of barley or other cereals. 3,485,720, 12-23-69, Cl. 195-70.
Dixon, Charles R., to Reynolds Metals Company. Interconnected aluminum and silver members and method of connecting the same or the like. 3,471,677, 10-7-69, Cl. 219-118.
Dixon, Edgar O.: *See—*
Koester, Charles J.; Dixon, Edgar O.; and Snitzer, Elias,3,445,785.
Dixon, Farris E., to American Standard Inc. Easily removed toilet seat. 3,471,874, 10-14-69, Cl. 4-240.
Dixon, Glenn R.; and Findlay, David, to Olin Mathieson Chemical Corporation. Liquid propellant-actuated device. 3,455,202, 7-15-69, Cl. 89-7.
Dixon, Harold F. E.; and Vaccaro, Angelo, to Columbia Controls Research Corporation. Sheet inspecting and segregating apparatus. 3,461,759, 8-19-69, Cl. 83-80.
Dixon, Harold F. E.: *See—*
Vaccaro, Angelo; and Dixon, Harold F. E.,3,439,133.
Dixon, James A., Jr., to Gossett Machine Works, Inc. Calender roller stop mechanism. 3,443,282, 5-13-69, Cl. 19-0.23
Dixon, John Bell, to United Kingdom of Great Britain & Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Articulated vehicles. 3,439,937, 4-22-69, Cl. 280-446.
Dixon, John Bell, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in her Britannic Majesty's Government of the. Constant velocity joints. 3,456,458, 7-22-69, Cl. 64-21.
Dixon, John K., deceased (by Dixon, Grace, executrix); Addie, Albert N.; McDowall, Charles J., and; and Oestrike, Wilfred C., to General Motors Corporation. Regenerative gas turbine engine structure. 3,455,107, 7-15-69, Cl. 60-39.32
Dixon, John S.; and Smith, Joseph W., to Combustion Engineering, Inc. Apparatus for preparation of hemispherical head segments. 3,450,397, 6-17-69, Cl. 266-23.
Dixon, John Thomas: *See—*
Smith, Raymond Anthony; and Dixon, John Thomas,3,442,604.
Smith, Raymond Anthony; and Dixon, John Thomas,3,446,581.
Smith, Raymond Anthony; and Dixon, John Thomas,3,446,582.
Dixon, Joseph, Crucible Company, The: *See—*
Youse, Earl L., 3,483,019.
Dixon, Kay: *See—*
Lee, Ronald H. D. F.; and Dixon, Kay,3,459,338.
Dixon, Lloyd H., Jr., to Unitrode Corporation. AC switching circuit. 3,487,231, 12-30-69, Cl. 307-113.
Dixon Malt Company, Ltd.: *See—*
Dixon, Bernard; and Comrie, Alan A. D., 3,485,720.
Dixon, Norman Edward: *See—*
Kreuchen, Karl Heinz Robert Christian; and Dixon, Norman Edward,3,449,617.
Dixon, Olaf George. Process of opening tow. 3,430,295, 3-4-69, Cl. 19-65.
Dixon, Olaf George; and Clewlow, Raymond Kevan, to Courtaulds Limited. Process of opening and crimping tow. 3,452,410, 7-1-69, Cl. 28-72.
Dixon, Peter Ray; and Coppock, Alden D. Fabric cleaning process. 3,432,253, 3-11-69, Cl. 8-142.
Dixon, Richard T.; and Wasil, Edwin E. Waste water heat exchanger. 3,439,738, 4-22-69, Cl. 165-143.
Dixon, Robert R.; and Flowers, Leonard C., to Westinghouse Electric Corporation. Urethane foam corrosion protection. 3,459,628, 8-5-69, Cl. 161-161.
Dixon, Rod P., to American Oil Shale Corporation. Undercutting of nuclearly detonated formations by subsequent nuclear detonations at greater depth and uses thereof in the recovery of various minerals. 3,465,818, 9-9-69, Cl. 166-247.
Dixon, Rod P., to American Oil Shale Corporation. Use of nuclear detonations in producing hydrocarbons from an underground formation. 3,465,819, 9-9-69, Cl. 166-247.
Dixon, Roland, to Cary, William E., Limited. Leaf springs. 3,452,974, 7-1-69, Cl. 267-47.
Dixon, Rolland E., to Phillips Petroleum Company. Conversion of propylene into ethylene. 3,485,890, 12-23-69, Cl. 260-683.
Dixon, Samuel, Jr., to United States of America, Army. Microwave power limiter comprising abutting semiconductor and ferrite elements. 3,426,299, 2-4-69, Cl. 333-17.
Dixon, Samuel, Jr., to United States of America, Army. RF power limiter comprising an irradiated semiconductor block. 3,465,266, 9-2-69, Cl. 333-17.
Dixon, Thomas E., to Cascade Corporation. Motor-operated load-handling apparatus with pressure sensitive means controlling motor acceleration. 3,462,122, 8-19-69, Cl. 253-1.
Dixon, Thomas E.; Faust, Donald M.; and Frey, Max, to Cascade Corporation. Apparatus for producing coordinated, simultaneous actuation of multiple rams. 3,476,016, 11-4-69, Cl. 91-411.
Dixon, Thomas E.: *See—*
Farmer, Stanley E.; and Dixon, Thomas E.,3,473,442.
Dixon, William Murray, to Formica International Limited. Colour printing. 3,450,044, 6-17-69, Cl. 101-170.
Dixon, William S. Cooling unit. 3,435,633, 4-1-69, Cl. 62-352.
Djedda, Fouad H., to Jedso Industries, Inc. Combined water pistol and target device. 3,477,723, 11-11-69, Cl. 273-101.
Djokic, Slobodan; and Tamburasov, Zrinka, to PLIUA, Pharmaceutical and Chemical Works. Erytromycin oxime and 9-amino-3-0-clandinosyl-5- 0-desosaminyl-6,11,12-trihydroxy-2,4,6,8,10,12-hexamethyl-pentadecane-olide. 3,478,014, 11-11-69, Cl. 260-210.
Dlugopolski, Joseph J., to Container Corporation of America. Reclosable carrying case. 3,463,379, 8-26-69, Cl. 229-33.
Dluhy, Herbert, to American Export Isbrandtsen Lines, Inc. Securing system for deck container or the like. 3,481,298, 12-2-69, Cl. 114-72.
Dmitriev, Ivan Sergeevich: *See—*
Rusanovich, Nikolai Grigorievich; Dmitriev, Ivan Sergeevich; Korobov, Yakov Vasilievich; Volfenzon, Shmul Ovshievich; Kostin, Boris Jurievich; Zaichik, Evegeny Bentsionovich; and Emelyanov, Vasily Semenovich,3,450,376.
Dmitriev, Jury Ivanovich: *See—*
Kostrov, Pavel Mikhailovich; Kozlov, Viktor Nikolaevich; Garin, Vladimir Mikhailovich; Ivanov, Viktor Alexeevich; and Dmitriev, Jury Ivanovich,3,485,238.
Doak, Kenneth W.: *See—*
Carrock, Frederick E.; Toekes, Barna; and Doak, Kenneth W.,3,428,712.
Doak, Kenneth W.; and Carrock, Frederick E., to Dart Industries Inc. Process of polymerizing styrene and acrylonitrile with a diolefin rubber. 3,448,175, 6-3-69, Cl. 260-880.
DoAll Company: *See—*
Henry, Richard J., 3,441,828.
Schwartz, Benjamin, 3,484,630.
Doan, Hazen V.: *See—*
Finlayson, Lloyd Taylor; and Doan, Hazen V.,3,474,823.
Doan, Mildred. Fastener for medical tubes and the like. 3,430,300, 3-4-69, Cl. 24-73.
Doan, Robert B.; and Taylor, Robert C., to Atlantic Richfield Company. Alkylbenzene sulfonate having improved color, odor and heat stability. 3,436,351, 4-1-69, Cl. 252-137.
Doan, Robert B.: *See—*
Reid, John C.; Doan, Robert B.; and Taylor, Robert C.,3,463,736.
Doane, Elliott P., to Phillips Petroleum Company. Hydrocracking process and catalyst. 3,475,325, 10-28-69, Cl. 208-111.
Doban Labs, Inc.: *See—*
Miller, Daniel D., 3,440,956.
Dobbie Industries, Limited, The: *See—*
Scroggie, James A.; Davidson, Miron; Hall, Floyd Charles; and Farley, George Albert, 3,419,925.
Scroggie, James A.; and Hall, Floyd Charles, 3,421,712.
Dobbins, Mark: *See—*
Sawyer, Andrew H.; Dobbins, Mark; and Lloyd, Richard H.,3,482,505.
Dobbs, Jack: *See—*
Kirschbaum, Harry; and Dobbs, Jack,3,430,364.
Dobbs, Lowernze D.: *See—*
Hassell, Clark E.; and Dobbs, Lowernze D.,3,477,598.
Dobbs, Richard A.; and Holmes, Richard N., to McDonnell Douglas Corporation. Acoustical panel structure. 3,481,427, 12-2-69, Cl. 181-33.
Dobbs, Ronald Merrill. Controlling and sensing device for plural trolling rods. 3,444,643, 5-20-69, Cl. 43-17.
Dobell, Curzon. Pockets for garments. 3,438,062, 4-15-69, Cl. 2-247.
Dobell, Curzon; and Wilson, Leslie P., to Caribbean Holdings Ltd. Apparatus and method of making elongated vessels, containers and tubular members. 3,425,118, 2-4-69, Cl. 29-477.3

Dobermann, Hans, to Siemens Aktiengesellschaft. Control apparatus for telegraph exchange repeater. 3,462,552, 8-19-69, Cl. 178-70.
Dobie, John D.: *See—*
Davis, James H.; Dobie, John D.; and Flockhart, Maxwell G.,3,437,415.
Dobinson, Bryan, to Ciba Limited. Reduction of hydroxyl group content of epoxy resins. 3,438,911, 4-15-69, Cl. 260-2.
Dobinson, Frank; and Ringwald, Eugene L., to Monsanto Company. Arsenic ethylene glycoloxide as a polyester polymerization catalyst. 3,457,237, 7-22-69, Cl. 260-75.
Dobkins, Joe W., to Halliburton Company. Shock absorber and piston guide means. 3,444,965, 5-20-69, Cl. 188-96.
Doble Engineering Company: *See—*
Povey, Edmund H., 3,430,138.
Povey, Edmund H., 3,452,274.
Dobler, Hans, to Attenhofer, A., AG. Heel holder for cableless ski bing ding. 3,466,057, 9-9-69, Cl. 280-11.35
Dobler, Helmut: *See—*
Bensinger, Wolf-Dieter; Dobler, Helmut; and Lamm, Heinz,3,420,214.
Dobovsek, Yvan, to Solvay & Cie. Resin compositions containing post-chlorinated polyvinyl chloride. 3,470,269, 9-30-69, Cl. 260-897.
Dobranski, Stephen F.; and Curcio, Raymond J. Instrument for orientating dental casts. 3,468,027, 9-23-69, Cl. 32-1.
Dobransky, Robert Alan, to American Cyanamid Company. Anchoring composition for film and film anchored therewith. 3,428,479, 2-18-69, Cl. 117-76.
Dobres, Robert M., deceased (by Dobres, Amalie B., executrix); and Warthen, John L., to Grace, W. R., & Co. Hydrocracking catalyst and process. 3,431,196, 3-4-69, Cl. 208-111.
Dobres, Robert M.; Parthasarathy, R.; and Warthen, John L., to Grace, W. R., & Co. Catalytic oxidation of proylene to acetic acid. 3,423,455, 1-21-69, Cl. 260-533.
Dobrick, Joseph: *See—*
Day, Lawrence; Dobrick, Joseph; and Kay, Arthur,3,434,243.
Dobrikat, Wolfgang: *See—*
Beckmann, Rolf; Kleefisch, Karl-Heinz; and Dobrikat, Wolfgang,3,452,123.
Dobrikin, Harold L. Hand control modulation valve. 3,420,271, 1-7-69, Cl. 137-627.5
Dobrikin, Harold L., to Berg Mfg. & Sales Co. Tire pressure system. 3,454,034, 7-8-69, Cl. 137-228.
Dobrikin, Harold L., to Berg Mfg., & Sales Co. Trailer electrical circuitry. 3,467,830, 9-16-69, Cl. 307-10.
Dobrikin, Harold L., to Berg Mfg. & Sales Co. Trailer brake and release system. 3,482,886, 12-9-69, Cl. 303-7.
Dobrin, Russell L. Damper construction for ventilator duct. 3,464,341, 9-2-69, Cl. 98-110.
Dobslaw, Gerhardt A.: *See—*
Beam, Harry L.; Berube, Warren A.; and Dobslaw, Gerhardt A.,3,454,143.
Cordone, Leonard; Dobslaw, Gerhardt A.; and Okoniewski, Robert J.,3,454,061.
Gregory, Edward G.; Dobslaw, Gerhardt A.; and De Waters, Terry L.,3,456,696.
Dobson, Howard Franklin. Guard for fire and smoke protection. 3,434,252, 3-25-69, Cl. 52-29.
Dobson, James B.: *See—*
Amis, James W., Jr.; and Dobson, James B.,3,436,716.
Dobson, Richard N.; and Bexon, Howard J., to Dominion Foundries and Steel Limited. Locomotive truck. 3,451,355, 6-24-69, Cl. 105-136.
Dobson, Robert D., to Procter & Gamble Company, The. Filter comprising a bed of buoyant and a bed of non-buoyant sand. 3,471,025, 10-7-69, Cl. 210-282.
Dobson, Robert D.; Going, Louis H.; and Hair, Eddy R., to Procter & Gamble Company, The. Glyceride fat tablets containing frying fat additives. 3,449,133, 6-10-69, Cl. 99-163.
Dobson, Thomas A.; and Davis, Martin A., to American Home Products Corporation. Substituted 10,5-(iminomethano)-10, 11-dihydro- 5H-dibenzo [α,δ] cyclohepten-13-one derivatives. 3,426,015, 2-4-69, Cl. 260-239.3
Dobson, Thomas A.; and Davis, Martin A., to American Home Products Corporation. 10,5-(Iminomethano)-10,11-dihydro-5H-dibenzo [α,d]cyclohepten-11-ones. 3,458,518, 7-29-69, Cl. 260-286.
Dobson, Thomas A.: *See—*
Davis, Martin A.; and Dobson, Thomas A.,3,462,457.
Davis, Martin A.; and Dobson, Thomas A.,3,487,075.
Dobson, W. E. & F., Limited: *See—*
Cowlishaw, Frank; and Town, Frank, 3,460,697.
Cowlishaw, Frank; and Town, Frank, 3,476,275.
Payne, William Woolley; and Hayter, Jack, 3,439,508.
Town, Frank, 3,464,445.
Town, Frank, 3,477,465.
Dochterman, Richard W., to General Electric Company. Lubrication system for electric machines. 3,420,335, 1-7-69, Cl. 184-6.
Dochterman, Richard W., to General Electric Company. Laminated rotors and stators with flux barriers for synchronous induction motors and method of making the same. 3,457,445, 7-22-69, Cl. 310-190.
Dochterman, Richard W., to General Electric Company. Motor vibration isolation mounting. 3,482,127, 12-2-69, Cl. 310-51.
Dock, Nils, to Aktiebolaget Svenska Flaktfabriken. Device for the exhaust of flue gases from arc melting furnaces. 3,453,369, 7-1-69, Cl. 13-1.
Dockendorff, Jay D.; Chirico, Anthony N.; and Sanfilippo, Bruce P., to Chicago Bridge & Iron Company. Sodium hydroxide monohydrate crystallization process. 3,477,829, 11-11-69, Cl. 23-302.
Docker, Leslie Thomas, to Slumberland Group Limited. Spring seats and the like articles. 3,454,054, 7-8-69, Cl. 140-89.
Docker, Leslie Thomas, to Slumberland Group Limited. Mattresses, seats and the like. 3,462,774, 8-26-69, Cl. 5-260.
Dockerty, Stuart M., to Corning Glass Works. Sheet glass forming apparatus with means to transform vertical flows into a horizontal flow. 3,433,613, 3-18-69, Cl. 65-145.
Dockerty, Stuart M., to Corning Glass Works. Process and apparatus for high pressure extrusion of glass. 3,467,513, 9-16-69, Cl. 65-183.
Dockery, Benjamin F.: *See—*
Haney, Benjamine H.; and Dockery, Benjamin F.,3,479,672.
Dockery, Calvin D., to Phillips Petroleum Company. Molding. 3,461,503, 8-19-69, Cl. 18-19.
Dockery, Denzel J. Pneumatic clamp. 3,430,494, 3-4-69, Cl. 73-420.
Dockery, James D.; and Saxton, George H. Filter for fluid. 3,458,441, 7-29-69, Cl. 210-416.
Dockum, Arthur L. Convertible table model shuffleboard with croquet game attachments. 3,425,696, 2-4-69, Cl. 273-126.
Dockus, Kostas F.; and Zambrow, John L., to Borg-Warner Corporation. Method of bonding aluminum. 3,482,305, 12-9-69, Cl. 29-487.
Doctoroff, Michael. Vacuum pump apparatus. 3,456,870, 7-22-69, Cl. 230-108.
Docutel Corporation: *See—*
Crowder, Wyly Kenneth; and Murphy, Thomas A., 3,485,182.
Docutel, Inc.: *See—*
Walker, Gene Cowden, 3,426,879.
Dodd, John Alan: *See—*
May, Herbert; Kendall-Smith, Brian John; Dodd, John Alan; and Instone, Alan Thomas,3,442,867.
May, Herbert; Kendall-Smith, Brian John; and Dodd, John Alan,3,451,967.
Dodd, Roy G., to Inta-Rota Machine Company, Inc., The. Floating chuck assembly. 3,474,982, 10-28-69, Cl. 242-68.4
Doddington, Harold William, to International Telephone and Telegraph Corporation. Idle test unit. 3,444,327, 5-13-69, Cl. 179-18.
Doddington, Harold W., to International Telephone and Telegraph Corporation. Voice controlled amplifier. 3,423,531, 1-21-69, Cl. 179-1.
Dodds, Gerald C.; Karlstrom, Karl R. M.; and Kort, Werner W., to American Chain & Cable Company, Inc., mesne. Accumulating and pusher tow truck conveyor system. 3,467,023, 9-16-69, Cl. 104-172.
Dodds, Ralph L.; and Plunkett, Bradley J., to Warwick Electronics Inc. Electrical musical instrument. 3,439,569, 4-22-69, Cl. 84-1.26
Dodds, Robert E.: *See—*
Chiola, Vincent; Dodds, Robert E.; and Vanderpool, Clarence D.,3,440,732.
Dodge, Conant, to Weyerhaeuser Company. Reverse pass in-line veneer production system. 3,447,579, 6-3-69, Cl. 144-324.
Dodge, David L.; Altieri, Joseph R.; and Kezer, Charles F., to Litton Industries, Inc. Potentiometer linearity and conformity checking apparatus including program storage means. 3,457,503, 7-22-69, Cl. 324-63.
Dodge, Gerald F., III, to General Electric Company. Frost detector for refrigerant evaporators. 3,465,535, 9-9-69, Cl. 62-151.
Dodge, Gerald F., III, to General Electric Company. Electronic refrigeration system defrost control. 3,474,638, 10-28-69, Cl. 62-153.
Dodge, Harry G.: *See—*
Crihfield, Richard P.; and Dodge, Harry G.,3,433,042.
Dodge, Harry G., to Crawford Fitting Company. Pipe vise adaptor. 3,476,347, 11-4-69, Cl. 248-316.
Lennon, Fred A.; Zahuranec, Emery J.; Dodge, Harry G.; and Szohatzky, Zoltan,3,475,948.
Dodge, Robert J., to Automatic Power, Inc. Emergency power system. 3,458,710, 7-29-69, Cl. 290-4.
Dodge, Robert J., to Automatic Power Inc. Constant intensity lamp control with an optical feedback control. 3,473,084, 10-14-69, Cl. 315-151.
Dodge, Robert W.; and Williams, George E. Stack cutting apparatus with adjustable collant means. 3,436,067, 4-1-69, Cl. 266-23.
Dodge, Ronald D.: *See—*
Crutcher, B. Todd, III; and Dodge, Ronald D.,3,435,934.
Dodgson, John R.; and Sharpe, Stanley R., said Dodgson assor. to Barsyke Limited. Selectively extensible telescoping hitch link. 3,446,518, 5-27-69, Cl. 280-482.

Dodo, Taro; and Yamamoto, Manabu, to Kabushiki Kaisha Hitachi Seisakusho. Electron cyclotron resonance heating device. 3,431,461, 3-4-69, Cl. 315-39.

Dodson, Arthur Edward, to Northern Electric Company Limited. Apparatus for sequentially testing the crosspoints of a ferreed switch for contact resistance. 3,464,001, 8-26-69, Cl. 324-28.

Dodson, Ashford B. Transparent sphere with rotating balls therein. 3,423,872, 1-28-69, Cl. 46-43.

Dodson, Bruce Douglas; and Stoops, Lambert Perry, to General Electric Company. Liquid handling and dispensing apparatus. 3,447,560, 6-3-69, Cl. 137-337.

Dodson, Gerald E.; and White, Charles S. Bearing. 3,455,864, 7-15-69, Cl. 260-33.6

Dodson, James L. Method of making a relative permeability survey using a floating plugging material. 3,463,230, 8-26-69, Cl. 166-254.

Dodson, Michael; and Randall, Jerrold H., to Beckman Instruments, Inc. Automatically discharging condensate trap. 3,456,672, 7-22-69, Cl. 137-193.

Dodson, Riley B.: *See*—
Andrews, James A.; Bahm, Glenn A.; Dodson, Riley B.; and Walker, John N.,3,462,837.

Dodson, Vance H.; and Serafin, Frank G., to Grace, W. R., & Co. Mineral grinding aids. 3,443,976, 5-13-69, Cl. 106-90.

Dodson, William C., Jr.; and Long, George R., to Du Pont de Nemours, E. I., and Company. Apparatus for entangling fibers. 3,458,905, 8-5-69, Cl. 19-161.

Dodsworth, James W.; and Fischer, Armin O., to Monroe International, Inc. Inking cartridge. 3,460,665, 8-12-69, Cl. 197-171.

Dodwell, John M.: *See*—
Schell, Sidney L.; and Austin, Max M., 3,483,955.

Doe, James, Engineering Co.: *See*—
Guckel, Gerhart A., 3,437,422.

Doebel, Karl J.; and Francis, John E., to Geigy Chemical Corporation. 8-Aldehydo-1(2H)phthalazinone hydrazones intermediates and process. 3,422,105, 1-14-69, Cl. 260-250.

Doebel, Karl J.; and Francis, John E., to Geigy Chemical Corporation. 1,2,8,9-Tetraazaphenalenes. 3,429,882, 2-25-69, Cl. 260-250.

Doebel, Karl J.; and Francis, John E., to Geigy Chemical Corporation. 1,2,8,9-Tetraazaphenalenes. 3,479,355, 11-18-69, Cl. 260-250.

Doebel, Karl J.; and Pfenninger, Heinz A., to Geigy Chemical Corporation. Certain N_{11}-substituted pyridobenzodiazepine derivatives. 3,483,187, 12-9-69, Cl. 260-239.3

Doebel, Karl J.: *See*—
Watthey, Jeffrey W. H.; and Doebel, Karl J.,3,484,443.
Kiss, Joseph; Spiegelberg, Hans; Vaterlaus, Bruno Peter; Rachlin, Albert; and Doebel, Karl,3,445,455.

Doeden, Roland E.; and Noonan, Richard E. Air tool. 3,439,422, 4-22-69, Cl. 32-27.

Doedens, James D.: *See*—
Rosenbrock, Earl H.; and Doedens, James D.,3,444,130.
Rosenbrock, Earl H.; and Doedens, James D.,3,444,131.

Doeg, Paul R.: *See*—
Peelle, Henry E., Jr.; Doeg, Paul R.; and Vaccaro, Angelo M.,3,436,863.

Doelger & Kirsten, Inc.: *See*—
Kaufman, William A.; and Kirsten, James O.F., 3,481,235.

Doelp, Louis C., Jr.: *See*—
Craig, Robert G.; Doelp, Louis C., Jr.; and Friedman, Lee,3,487,120.

Doepke, John H.: *See*—
Averill, William D., 3,431,546.

Doerfel, Helmut: *See*—
Kunde, Joachim; Wilhelm, Hans; and Doerfel, Helmut,3,471,447.
Wilhelm, Hans; Mueller, Gerhard; Pflueger, Richard; and Doerfel, Helmut,3,458,474.

Doerfer, Richard E.; and Hutchison, Marion E. Holding device. 3,420,148, 1-7-69, Cl. 92-107.

Doerfler, Roger E., to Hydrasearch Co., Inc. Metering valve. 3,447,836, 6-3-69, Cl. 303-6.

Doerge, Herman P.: *See*—
Wismer, Marco; Doerge, Herman P.; and Mosso, Paul R.,3,468,822.

Doering, August P., to National Starch and Chemical Corporation. Glass fiber coated with starch size compositions. 3,481,771, 12-2-69, Cl. 117-126.

Doering, Donald R.: *See*—
Aylikci, Veli; and Doering, Donald R.,3,466,520.

Doering, George I., to Industrial Nucleonics Corporation. Method and apparatus for controlling blown film extruder. 3,474,160, 10-21-69, Cl. 264-40.

Doering, William E.; and Kegg, Robert R., to Owens-Illinois, Inc. Method of fabricating transparent reinforced glass pipe. 3,457,095, 7-22-69, Cl. 117-5.5

Doering, William Von E.: *See*—
Parikh, Jekishan R.; and Doering, William Von E.,3,444,216.

Doerman, Eryk Stefan, to Molin Machine Company Limited. Apparatus for cutting continuous webs of paper or like material. 3,425,307, 2-4-69, Cl. 83-346.

Doerman, Eryk Stefan, to Molins Machine Company Limited. Apparatus for testing cigarette wrappers. 3,485,084, 12-23-69, Cl. 73-45.1

Doermann, Edward L.: *See*—
Allen, Horace E.; Doermann, Edward L.; and Brooks, Elgin C.,3,481,593.

Doerner, Frank, to Doerner Products Co. Limited. Post lock for chair control. 3,421,727, 1-14-69, Cl. 248-405.

Doerner, Frank, to Doerner Products Co., Limited. Chair control. 3,441,311, 4-29-69, Cl. 297-305.

Doerner, Frank, to Doerner Products Co., Limited. Chair control back back-plate with integrally formed bearings. 3,447,198, 6-3-69, Cl. 16-128.

Doerner Products Co. Limited: *See*—
Doerner, Frank, 3,421,727.
Doerner, Frank, 3,441,311.
Doerner, Frank, 3,447,198.

Doerr, Dale D.; and Ridout, Robert A., to Kaiser Aluminum & Chemical Corporation. Apparatus and method for bending, drawing and burnishing a metal workpiece. 3,457,759, 7-29-69, Cl. 72-212.

Doerr, Robert C., to United States Steel Corporation. Mechanism for actuating bar steadier. 3,457,758, 7-29-69, Cl. 72-209.

Doerwang, Joseph F.: *See*—
Sommer, Don A.; and Doerwang, Joseph F.,3,433,356.

Doesschate, Walter, Jr., to U.S. Philips Company, Inc. Cross modulation rejection system. 3,486,120, 12-23-69, Cl. 325-472.

Doetsch, Hans Peter, to Stabilus Industrie-und Handelsgesellschaft m.b.H. Adjustable gas spring supported drawing table. 3,444,830, 5-20-69, Cl. 108-136.

Doetsch, Hans-Peter: *See*—
Dorner, Nikolaus; Freitag, Herbert; Sautter, Hans-Dieter; Schafer, Willi; and Doetsch, Hans-Peter,3,447,645.

Dogadko, Peter; and Hufton, Arthur G., to Motorola, Inc. Triggering circuit. 3,433,208, 3-18-69, Cl. 123-148.

Doggart, John, to Friedland, V. & E., Limited. Electrical sound device having unitary plastic base. 3,425,057, 1-28-69, Cl. 340-388.

Doggett, James J., & Raptis, George Meletios: *See*—
Doggett, James J.; and Raptis, George Meletios, 3,420,489.

Doggett, James J.; and Raptis, George Meletios, to Doggett, James J., & Raptis, George Meletios. Adjustable bolt assembly for battery supporting bracket. 3,420,489, 1-7-69, Cl. 248-361.

d'Ogny, Francois:*See*—
Chretien, Roland; d'Ogny, Francois; and Wetroff, Georges,3,475,421.

Dohanic, John L., Jr.: *See*—
Quigley, John B.; and Dohanic, John L., Jr.,3,442,047.

Dohanyos, John A. Adjustable framing device. 3,451,153, 6-24-69, Cl. 40-155.

Doherty, Alfred E., Jr.; and Knop, Louis H., to Aerojet-General Corporation. Explosive seam bonding method and machine. 3,432,912, 3-18-69, Cl. 29-470.1

Doherty, Bernard E.; and Bjerke, Harald C., to Rust Furnace Company. Pipe insulation jacket. 3,486,533, 12-30-69, Cl. 138-147.

Doherty, George O. Endotracheal intubation tubes. 3,460,541, 8-12-69, Cl. 128-351.

Doherty, Jack R. Drill collar safety slip. 3,443,291, 5-13-69, Cl. 24-263.

Doherty, Norman R., to Electric Stapler Corporation. Electric fastening tool. 3,469,122, 9-23-69, Cl. 310-30.

Doherty, Norman R., to Electric Stapler Corporation. Fastener driving means. 3,482,754, 12-9-69, Cl. 227-131.

Doherty, Roger B.; and Moon, James N. Material transporting device. 3,436,125, 4-1-69, Cl. 302-58.

Dohi, Yasusuke; and Aizawa, Tatsuo. Automatic separation system for sensitive paper and original paper in copying machine. 3,425,332, 2-4-69, Cl. 355-110.

Dohler, David E., to International Business Machines Corporation. Control system for flying spot scanners. 3,443,027, 5-6-69, Cl. 178-7.2

Dohling, Jerome: *See*—
McKeever, Charles Harlan; and Dohling, Jerome,3,439,050.

Dohm and Nelke Incorporated: *See*—
Dohm, Daniel, Jr., 3,470,926.
Rehg, Elmer H., 3,455,083.

Dohm, Daniel, Jr., to Dohm and Nelke Incorporated. Hydraulic slicing machine control. 3,470,926, 10-7-69, Cl. 146-95.

Dohman, Eugene J.; and Rinehimer, William A., to National Lead Company. Chillproofing fermented beverages with polyvinyl resin modified clays. 3,424,588, 1-28-69, Cl. 99-48.

Dohmeier, Hans O. Rod anchoring means. 3,464,308, 9-2-69, Cl. 85-32.

Dohmeier, Hans O. Anchor or roof bolts and the like. 3,478,641, 11-18-69, Cl. 85-79.

Dohmen, Leonard Marie: *See*—
Conix, Andre Jan; and Dohmen, Leonard Marie,3,448,077.

Dohnalik, Joseph J., to Garden City Envelope Company. Machines for making envelopes. 3,450,009, 6-17-69, Cl. 93-62.
Dohnalova, Blanka: *See—*
Binek, Bedrich; and Dohnalova, Blanka,3,486,827.
Dohr, Albert D.: *See—*
Woelfer, Charles G.; and Dohr, Albert D.,3,478,784.
Dohr, Manfred: *See—*
Schiefer, Joachim; and Dohr, Manfred,3,441,507.
Schiefer, Joachim; and Dohr, Manfred,3,459,665.
Dohr, Roman; and Kaiser, Wilhelm Jakob, to Henkel & Cie, G.m.b.H. Amino oxides. 3,449,430, 6-10-69, Cl. 260-583.
Dohrman, Charles A. Retractable folding steps. 3,469,654, 9-30-69, Cl. 182-88.
Dohrmann Instruments Company: *See—*
Miller, Clair Eugene, 3,454,850.
Myers, Alva Robert; and McNulty, James A., 3,427,238.
Dohse, Ruthard: *See—*
Meier, Hermann; Eisenmann, Joseph; Dohse, Ruthard; and Ahlert, Wilhelm,3,456,333.
Doi, Juro: *See—*
Yamada, Kazuyoshi; and Doi, Juro,3,421,469.
Yamada, Kazuyoshi; and Doi, Juro,3,433,198.
Yamada, Kazuyoshi; Wakazaki, Hiroshi; and Doi Juro,3,433,197.
Doi, Kaname: *See—*
Irie, Tadasu; and Doi, Kaname,3,426,872.
Doi, Kazuyuki: *See—*
Yanabu, Osamu; Hada, Takashi; and Doi, Kazuyuki,3,479,162.
Doi, Mineo; Miura, Masamichi; Sakuraba, Ryozo; and Ando, Takeo, to Tekkosha Co., Ltd. Process for removing mercury from metallic sodium containing the same. 3,429,692, 2-25-69, Cl. 75-63.
Doi, Shunichi; Tanaga, Hidenori; and Okumura, Masami, to Nitto Chemical Industry Co., Ltd. Method for preparing 2-amino-cyclohexanone oxime and hydrochloride thereof. 3,426,070, 2-4-69, Cl. 260-566.
Doi, Tadashi: *See—*
Ohtsuka, Shunzo; and Doi, Tadashi,3,466,247.
Doi, Tatsumi; Mineshima, Teruo; and Saito, Etsuro, to Konishiroku Photo Industry Co., Ltd. Photographic copying machine. 3,480,361, 11-25-69, Cl. 355-16.
Doig, George; and Mc Geachy, Donald E., to Numatics, Incorporated. Directional mounting plate for air line filter. 3,478,497, 11-18-69, Cl. 55-411.
Doig, Stuart H. Means for forming and applying ribbon bows. 3,479,243, 11-18-69, Cl. 161-9.
Doiron, David H.: *See—*
Bender, Donald E.; and Doiron, David H.,3,446,017.
Dokes, George E.: *See—*
Schwarz, Julius; Dokes, George E.; Von Bradsky, Otokar; and Goodman, Sidney J.,3,479,780.
Dokos, Sophocles J.; Wickenberg, Chester H.; Swanson, Charles E.; and Gasparaitis, Bernardas, to Sunbeam Corporation. Electric toaster. 3,472,154, 10-14-69, Cl. 99-334.
Dokos, Sophocles J.: *See—*
Jepson, Ivar; Dokos, Sophocles J.; and Bielak, Sigmund H.,3,477,263.
Dolan, Bernard Joseph; and Jenner, Robert Kempton, to Donner Electronics, Inc. Ornamental display. 3,431,410, 3-4-69, Cl. 240-10.1
Dolan, Calvin M., to General Electric Company. Means for securing easily detachable shields to aerospace vehicles. 3,437,287, 4-8-69, Cl. 244-1.
Dolan, Francis D.; and Burgoon, Jack L., to Scott & Fetzer Company, The, mesne. Apparatus for cleaning floors. 3,434,178, 3-25-69, Cl. 15-369.
Dolan, John R.: *See—*
Gilbert, Allen Carlton; and Dolan, John R.,3,425,509.
Dolan, Lawrence C.: *See—*
Luksch, James A.; Dolan, Lawrence C.; Brooks, Robert A.; and Zimmerman, Arie,3,450,987.
Dolan, Lee Allen, to Hoffmann-La Roche Inc.Process for the preparation of 2- aminobenzophenone-α-oximes. 3,465,038, 9-2-69, Cl. 260-566.
Dolan, Leo J., to Adams-Russell Co., Inc. Broadband vibration-suppressed aircraft blade antenna. 3,453,628, 7-1-69, Cl. 343-708.
Dolan, Milton D., to General Motors Corporation. Latch mechanism for a slidable sash. 3,423,116, 1-21-69, Cl. 292-165.
Dolan, Robert N. Trousers type garment with seat and ground engaging support. 3,451,064, 6-24-69, Cl. 2-227.
Dolan, Russell P., Jr.; Buchanan, Bobby L.; and Roosild, Sven A., to United States of America, Air Force. Process for implanting grids in semiconductor devices. 3,431,150, 3-4-69, Cl. 148-1.5
Dolan, Russell P., Jr.; and Roosild, Sven A., to United States of America, Air Force. Process for implanting buried layers in semiconductor devices. 3,457,632, 7-29-69, Cl. 29-578.
Dolan, Russell P., Jr.: *See—*
Roosild, Sven A.; Buchanan, Bobby L.; and Dolan, Russell P., Jr.,3,430,113.
Dolan, William S., to Spedcor Electronics, Inc., mesne. Instrument mounting system. 3,471,029, 10-7-69, Cl. 211-13.
Dolan-Jenner Industries, Inc.: *See—*
Erickson, George Duncan, 3,459,240.
Doland, George D. Multi-stage distillation unit for water and power plant system. 3,476,653, 11-4-69, Cl. 202-173.
Dolby, James L.; and Resnikoff, Howard L., to Lockheed Aircraft Corporation. Hyphenation machine. 3,439,341, 4-15-69, Cl. 340-172.5
Dolby, John W. Valve operating mechanism. 3,463,131, 8-26-69, Cl. 123-90.
Dolding, Walter R., to American Chain & Cable Company, Inc., mesne. Accumulating conveyor system. 3,477,390, 11-11-69, Cl. 104-172.
Dole, James, Engineering Co.: *See—*
Guckel, Gerhart A.; and Theys, Ezra E., 3,442,304.
Dole Valve Company, The: *See—*
Atherton, Arden Daniel, 3,451,021.
Bencic, Robert S., 3,482,598.
Benedetti, Nello L., 3,443,589.
Dolter, Paul A., 3,476,146.
Erickson, Howard L., 3,422,842.
Erickson, Howard L., 3,444,897.
Erickson, Howard L.; and McCarty, William R., Jr., 3,456,836.
Erickson, Howard L., 3,480,040.
Fathauer, George H., 3,421,537.
Fox, William L., 3,449,919.
Franz, Rudolph J., 3,476,316.
Huley, William G.; Erickson, Howard L.; and Hanna, John W., 3,429,552.
Huley, William G., 3,446,246.
Kelly, Douglas E.; and Obermaier, Frank E., 3,420,579.
Kelly, Douglas E., 3,448,921.
Kolze, Lawrence A., 3,430,918.
Schwartz, Samuel H., 3,438,256.
Schwartz, Samuel H., 3,442,483.
Scott, Arthur A., 3,461,913.
Dolejs, Charles A.: *See—*
Liebman, Warren S.; Carson, Don B.; and Dolejs, Charles A.,3,422,848.
Dolfini, Joseph Edward: *See—*
Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack,3,485,819.
Dolgoplosk, Boris Alexandrovich: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.
Dolin, Edward T.: *See—*
Morey, Woodruff A.; Molt, Richard P.; Ames, Victor H.; and Dolin, Edward T.,3,447,697.
Dolin, Stanley A., to Warner & Swasey Company, The. Rapid scan spectrometer that sweeps corner mirrors through the spectrum. 3,460,892, 8-12-69, Cl. 356-83.
Dolin, Stanley A.; and Rosin, Seymour, to Warner & Swasey Company, The. Radiation measuring instrument. 3,436,964, 4-8-69, Cl. 73-355.
Dolinsky, Hyman: *See—*
Chidley, John S.; Nylund, George J.; and Dolinsky, Hyman,3,441,304.
Chidley, John S.; Nylund, George J.; and Dolinsky, Hyman,3,463,532.
Dolinsky, Michael, Sr. Submerging injector for molten material. 3,450,191, 6-17-69, Cl. 164-312.
Dolitzsch, Heinz; and Skirde, Gerhard. Washing apparatus for vehicles, more particularly for motor vehicles. 3,425,080, 2-4-69, Cl. 15-21.
Doll, Brendan L.; and Doll, Gregory W. Food chilling using carbon dioxide refrigerant. 3,468,135, 9-23-69, Cl. 62-63.
Doll, Edouard, to Societe a Responsabilite Limitee: Filatures et Tissages F. & Th. Frey. Apparatus for winding rovings having anti-tangle plate stop motion device. 3,434,274, 3-25-69, Cl. 57-80.
Doll, Gregory W.: *See—*
Doll, Brendan L.; and Doll, Gregory W.,3,468,135.
Doll, Henri Georges; and Dumanoir, Jean L., to Schlumberger Technology Corporation. Induction logging apparatus with reduced diameter auxiliary coil means. 3,466,533, 9-9-69, Cl. 324-6.
Doll, Jean Henri; and Druesne, Henri Desire, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Sea water activated primary batteries and method of operating same. 3,463,671, 8-26-69, Cl. 136-160.
Doll, Peter A.: *See—*
Canny, Floyd H.; and Doll, Peter A.,3,472,353.
Doll, Robert M., to Massey-Ferguson Inc. Brake actuated control system for locking differential. 3,467,212, 9-16-69, Cl. 180-6.2
Dollac Division, Jacoby-Bender, Inc.: *See—*
Brudney, Harry, 3,421,255.

Brudney, Harry, 3,432,963.
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S., 3,429,068.
Dollar, Delores A.: *See—*
Dollar, Melvin L., 3,464,699.
Dollar, Melvin L., 1/2 to Dollar, Delores A. Adjustable and removable targets on a gameboard. 3,464,699, 9-2-69, Cl. 273-118.
Dollase, William R., to Case, J. I., Company. Combined light flasher and turn signal for a vehicle. 3,464,061, 8-26-69, Cl. 340-81.
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ, to United States of America, Air Force. Degradation resistant and non-corrosive high- temperature lubricant formulation. 3,481,872, 12-2-69, Cl. 252-49.9
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ, to United States of America, Air Force. Perfluorinated substituted phenyl phosphine lubricant additives. 3,483,129, 12-9-69, Cl. 252-49.9
Dollenmayer, William L., to International Business Machines Corporation. Registration apparatus for dictating machines and systems. 3,426,161, 2-4-69, Cl. 179-100.1
Dollenmayer, William L., to International Business Machines Corporation. Transducer driving arrangement for recording and reproducing apparatus. 3,471,654, 10-7-69, Cl. 179-100.2
Dollfus, Jacques, to La Societe des Ateliers Robatel et Mulatier. Apparatus for the decantation of liquids. 3,459,368, 8-5-69, Cl. 233-15.
Dollfus, Jacques; and Miachon, Jean Paul, to La Societe des Ateliers Robatel et Mulatier. Mixing and separating liquids centrifugally. 3,438,573, 4-15-69, Cl. 233-15.
Dollie, Frances. Tire chain links. 3,463,214, 8-26-69, Cl. 152-243.
Dolling, Jens C., to Bell Telephone Laboratories, Incorporated. Air valve. 3,420,264, 1-7-69, Cl. 137-463.
Dollinger Corporation: *See—*
Cullen, Douglas H., 3,464,556.
Dollinger, Francis A., to Mississippi Valley Structural Steel Company. Articulated pipe boom structure. 3,451,427, 6-24-69, Cl. 137-615.
Dollinger, Robert E.: *See—*
Henderson, Eulas W.; and Dollinger, Robert E.,3,486,853.
Johnson, Paul H.; and Dollinger, Robert E.,3,484,200.
Dollison, William W., to Otis Engineering Corporation. Well head system and method of installing the same. 3,426,845, 2-11-69, Cl. 166-72.
Dollison, William W. Pressure-responsive safety valve. 3,452,777, 7-1-69, Cl. 137-464.
Dollison, William W., to Otis Engineering Corporation. Well tools. 3,459,260, 8-5-69, Cl. 166-73.
Dollison, William W., to Otis Engineering Corporation. Pressure control device. 3,481,362, 12-2-69, Cl. 137-460.
Dollman, Stephen C.: *See—*
Salatiello, Peter P.; and Dollman, Stephen C.,3,434,996.
Dolman, Austin, to Hill & Dolman (Engineers) Limited. Bag forming methods and apparatus. 3,481,102, 12-2-69, Cl. 53-29.
Dolman, Henry J., to Brecknell, Dolman, and Rogers Limited. Apparatus for extracting and feeding coins stored in a bulk supply. 3,463,171, 8-26-69, Cl. 133-1.
Dolomit-Werke G.m.b.H.: *See—*
Ruch, Herbert, 3,456,934.
Wuhrer, Josef; and Wiensz, Klaus, 3,441,636.
Dolomite Franchi S.p.A.: *See—*
Perucchetti, Arturo, 3,458,641.
Dolphin, Thomas J., to Westinghouse Electric Corporation. Tension control system for a reel drive. 3,448,357, 6-3-69, Cl. 318-6.
Dolphin-Kamper, Inc.: *See—*
Smith, Kenneth L., 3,464,735.
Dolter, Paul A., to Dole Valve Company, The. Anti-knock flow valve. 3,476,146, 11-4-69, Cl. 137-599.
Dolveck, Gilbert, to Boxal Beaurepaire S.A. Process for reducing the end of a tubular metallic body and device for carrying out this process. 3,430,594, 3-4-69, Cl. 113-1.
Dom-Somen GmbH: *See—*
Born, Alfons, 3,446,351.
Doman, Robert C.: *See—*
Bonner, Glenn H.; Doman, Robert C.; Iseli, Robert W.; and Papa, Pellegrino,3,487,136.
Domas, Lawrence. Sorbent material and filter aid compositions and the process for the preparation thereof. 3,470,104, 9-30-69, Cl. 252-188.
Domashovetz, Volodymyr, to Remco Industries, Inc. Toys controlled by sound of a pre-determined frequency. 3,444,646, 5-20-69, Cl. 46-244.
Domba, Elemer: *See—*
Privette, Walter R.; and Domba, Elemer,3,467,581.
Domba, Elemer, to Nalco Chemical Company. Novel compositions and their use in preventing and inhibiting foam. 3,422,027, 1-14-69, Cl. 252-321.
Dombacher, Wolf, to North American Philips Company, Inc. Constant-voltage supply for electronic equipment in battery-operated recording or playback apparatus. 3,424,871, 1-28-69, Cl. 179-100.2
Dombeck, Thomas W. Information storage apparatus. 3,445,715, 5-20-69, Cl. 315-18.
Dombro, Robert A., to Universal Oil Products Company. Preparation of ketones. 3,426,066, 2-4-69, Cl. 260-540.
Dombro, Robert A., to Universal Oil Products Company. Process for producing organic sulfides from the reaction of mercaptans with alcohols. 3,450,771, 6-17-69, Cl. 260-609.
Dombro, Robert A., to Universal Oil Products Company. Preparation of halo-substituted dihydroxy-polyhydromethanonaphthalenedicarboxylic acids. 3,452,083, 6-24-69, Cl. 260-514.
Dombro, Robert A., to Universal Oil Products Company. Conversion of disulfides to alcohols. 3,459,813, 8-5-69, Cl. 260-632.
Dombro, Robert A., to Universal Oil Products Company. Preparation of alcohols. 3,483,993, 12-16-69, Cl. 210-632.
Dombro, Robert A.: *See—*
Sparks, Allen K.; and Dombro, Robert A.,3,426,044.
Sparks, Allen K.; and Dombro, Robert A.,3,480,668.
Dombrowski, Theodor; and Kunze, Bernhard, to Wilhelm Hegenscheidt Kommanditgesellschaft. Surface smoothing arrangement. 3,448,504, 6-10-69, Cl. 29-90.
Dombruch, Franz; Gutermann, Traugott; and Teske, Karl W. E., to Messer Griesheim GmbH. Cutting torch nozzle and method. 3,484,044, 12-16-69, Cl. 239-8.
Domen, Sylvester G., Sr. Apparatus for making standardized tape specimens. 3,436,963, 4-8-69, Cl. 73-150.
Domenico, Anthony J.: *See—*
Dunn, Vernon E.; and Domenico, Anthony J.,3,467,918.
Domenico, Robert J.; and Lloyd, Robert H. F., to International Business Machines Corporation. Thin film decoupling capacitor incorporated in an integrated circuit chip, and process for making same. 3,460,010, 8-5-69, Cl. 317-235.
Domenico, Salvatore. Bowling glove. 3,421,160, 1-14-69, Cl. 2-159.
Domenico, Samuel N., to Pan American Petroleum Corporation. Apparatus for automatically following a line on a chart. 3,427,457, 2-11-69, Cl. 250-202.
Domeny, Steven, to Crane Packing Company. Positive feed device for tape dispenser. 3,470,781, 10-7-69, Cl. 83-436.
Domestic Lace Mfg., Inc.: *See—*
Traumuller, Martin, 3,433,034.
Domhan, Gerold: *See—*
Hornlein, Roland; and Domhan, Gerold,3,444,828.
Hornlein, Roland; and Domhan, Gerold,3,447,285.
Domick, Edward J.: *See—*
Hair, Hugh A.; Roome, Gerard T.; Gerst, Carl W.; Des-Jardins, Edgar E.; and Domick, Edward J.,3,447,143.
Domin, Bernhard, to Plate, Dr., GmbH Chemische Fabrik. Sieve for paper-making machines. 3,477,477, 11-11-69, Cl. 139-383.
Domin, Robert A., to Youngwood Electronic Metals, Inc. Method of forming presoldering components and composite presoldering components made thereby. 3,454,374, 7-8-69, Cl. 29-183.5
Domine, Daniel; and Quobex, Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process for the preparation of synthetic faujasite. 3,481,699, 12-2-69, Cl. 23-112.
Dominion Bridge Company Limited: *See—*
Cape, Richard Allan Gordon, 3,427,699.
Dominion Electric Corporation: *See—*
Arntz, Robert L., 3,472,153.
Robison, Russell O., 3,487,319.
Satkunas, Bruno; and Lyons, Merle E., 3,472,983.
Dominion Electrohome Industries Limited: *See—*
McElroy, Russell A., 3,443,137.
Dominion Engineering Works, Limited: *See—*
Sproule, Robert Stanley, 3,447,782.
Dominion Foundries and Steel Limited: *See—*
Cox, Arthur; Gladysz, Carl V.; and Linke, Arthur G., 3,428,023.
Dobson, Richard N.; and Bexon, Howard J., 3,451,355.
Goss, Norman P.; Black, James; and Stewart, William J., 3,438,820.
Dominion Tar & Chemical Company Limited: *See—*
Douglas, Harold Roy; and Snider, Ivan W., 3,428,420.
Domino Sugar Company: *See—*
McCartney, Duane N.; Carder, Victor H.; and Shaw, Hugh H., 3,435,969.
Prechter, Karl E., 3,435,584.
Dommann, Gunther, to Gewerkschaft Eisenhutte Westfalia. Roof supporting arrangement including cantilevered roof bar carrying extensible roof supporting cap and cutter means. 3,441,317, 4-29-69, Cl. 299-33.
Dommann, Gunther; and Holken, Norbert, to Gewerkschaft Eisenhutte Westfalia. Multi-sectional roof cap for mine roof supporting prop means. 3,455,113, 7-15-69, Cl. 61-45.
Dommer, Henry. Cleaner for paint rollers. 3,422,828, 1-21-69, Cl. 134-138.
Domnick, Hans Wolfgang F. Photographic camera and film magazine therefor. 3,443,501, 5-13-69, Cl. 95-31.
Domnick, Keith R. Filter media support with filter medium. 3,460,680, 8-12-69, Cl. 210-315.

Domori, Renzo: *See*—
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru,3,426,023.
Domotor, Julius A. Means and method for removing foreign particles from lithographic press. 3,467,008, 9-16-69, Cl. 101-142.
Dompkowski, Alex G., to PPG Industries, Inc. Apparatus for shaping and tempering glass sheets with means to transport the sheets therebetween. 3,455,672, 7-15-69, Cl. 65-273.
Domtar Limited: *See*—
Bryce, John R. G.; and Kleinert, Theodor N., 3,448,002.
Engel, Karl, 3,432,090.
Flewwelling, Herbert Martin, 3,482,287.
Hale, Edward C.; and Kerekes, Peter S., 3,454,457.
Jackson, William Donald, 3,454,207.
Kuntze, Richard Andreas, 3,451,832.
Lapointe, Joseph Andrew, 3,477,483.
Lapointe, Joseph Andrew, 3,477,484.
Leib, Joseph, 3,474,139.
Rowley, Cecil Alan, 3,459,328.
Tomlinson, Charles Lester, 3,441,475.
Walker, Richard W. C., 3,469,736.
Don, Jules M., to Stanley Works, The. Level vial holder and method of making same. 3,442,024, 5-6-69, Cl. 33-211.
Donadieu, Lucien J., to Compagnie Generale d'Electricite. Superconductive quadripole with magnetic focusing. 3,431,523, 3-4-69, Cl. 335-210.
Donadieu, Lucien; Kloeckner, Edmond; Aupox, Marcell; and Royet, Jean, to Compagnie Generale d'Electricite. Superconducting winding. 3,470,508, 9-30-69, Cl. 335-216.
Donadieu, Lucien; Royet, Jean; and Maldy, Jacques, to Compagnie Generale d'Electricite. Superconductive cable construction. 3,474,187, 10-21-69, Cl. 174-128.
Donahe, Leonard L.: *See*—
Welch, George D.; and Donahe, Leonard L.,3,469,477.
Donaher, Thomas P.: *See*—
Seichter, Kenneth R.; and Donaher, Thomas P.,3,456,244.
Donahoo, Joe T., to General Electric Company. Single-phase alternating current multivoltage induction motor stator. 3,439,244, 4-15-69, Cl. 318-220.
Donahue, Gary M., to Reynolds Metals Company. Carrier for bottle-like containers, method of making such carrier, and blanks for making same. 3,442,421, 5-6-69, Cl. 220-114.
Donahue, Gary M., to Reynolds Metals Company. Dispensing container means and blanks for making same. 3,477,632, 11-11-69, Cl. 229-17.
Donahue, Robert F.: *See*—
Harriman, Allen C.; and Donahue, Robert F.,3,444,571.
Donald, Alexander: *See*—
Hamilton, Joseph Portola; and Donald, Alexander,3,462,010.
Donald, Harold J.: *See*—
Lee, Robert E.; and Donald, Harold J.,3,477,099.
Donald, Philip J., to Radio Corporation of America. Light beam recorder using vibrated lens system. 3,427,631, 2-11-69, Cl. 346-49.
Donald, Philip J.; and Chambers, Robert W., to United States of America, Navy, mesne. Optical correlator for determining the longitudinal displacement of similar information on two tracks. 3,453,439, 7-1-69, Cl. 250-220.
Donald, Raymond G., to Mallory, P. R., & Co., Inc. High-current integrated-circuit power transistor. 3,465,214, 9-2-69, Cl. 317-235.
Donald, William A. Method and apparatus for reducing sonic waves and aerodynamic drag. 3,446,464, 5-27-69, Cl. 244-130.
Donaldson, Chase. Reinforced plastic strapping laminate. 3,475,264, 10-28-69, Cl. 161-143.
Donaldson Company, Inc.: *See*—
Grassel, Eugene E.; and Schoen, Donald W., 3,429,335.
Lapple, Charles E., 3,441,135.
Larson, Robert E., 3,429,108.
Lee, Stuart J.; and Schenk, Raymond L., 3,443,365.
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A., to United States of America, Agriculture. Process for imparting rot-resistance to an organic textile material and the resulting material. 3,420,700, 1-7-69, Cl. 117-138.5
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A., to United States of America, Agriculture. Process for imparting rot-resistance to an organic textile material and the resulting material. 3,420,701, 1-7-69, Cl. 117-138.5
Donaldson, David, to Container Corporation of America. Container for eggs or the like. 3,486,678, 12-30-69, Cl. 229-2.5
Donaldson, Earl J., to United States of America, Navy. Two-degree gyro for a television camera. 3,474,986, 10-28-69, Cl. 244-3.1
Donaldson, George R.: *See*—
Riedl, Fredrick J.; and Donaldson, George R.,3,457,162.
Donaldson, Glen E. Dock hinge. 3,421,327, 1-14-69, Cl. 61-48.
Donaldson, James E., to Putt Trac Golf, Inc. Golf training apparatus. 3,471,155, 10-7-69, Cl. 273-186.
Donaldson, John D., to General Dynamics Corporation. Standby automatic water-methanol system for multiengine aircraft. 3,434,281, 3-25-69, Cl. 60-39.15
Donaldson, John W.: *See*—
Bailey, Ferrall W., 3,473,522.
Donaldson, Joy Kenneth. Neck tensioning device. 3,457,914, 7-29-69, Cl. 128-76.
Donaldson, Malcolm Macfarland; and Morris, Adolph Roy, to American Cyanamid Company. Sheet polyethylene carrying a fused hydrophilic tiecoat of a polyethylene-emulsifying agent mixture and a hydrophobic organic topcoat. 3,421,927, 1-14-69, Cl. 117-76.
Donaldson, Malcolm Macfarland; and Morris, Adolph Roy, to American Cyanamid Company. Hydrophobic organic film coated with a polyol- polymethylolamidogen condensate and process for preparation of said film. 3,428,478, 2-18-69, Cl. 117-73.
Donaldson, Orlin, to Bethlehem Steel Corporation. Guidance apparatus for supporting a device in close proximity to the inner wall of a tapered stack. 3,458,012, 7-29-69, Cl. 187-1.
Donaldson, Robert E.; Murphy, Harry C., Jr.; and Stauffer, Harry C., to Gulf Research & Development Company. Refining high sulfur lubricating oil charge stocks. 3,481,863, 12-2-69, Cl. 208-210.
Donaldson, Thomas Alexander, to Huber, J. M., Corporation. Rotary indicator paddle. 3,436,059, 4-1-69, Cl. 259-135.
Donaldson, Thomas Alexander, to Huber, J. M., Corporation. Apparatus for measuring hydrogen now concentration of a slurry. 3,464,908, 9-2-69, Cl. 204-195.
Donalies, Daniel J., to Xerox Corporation. Lifting apparatus. 3,435,803, 4-1-69, Cl. 118-637.
Donaruma, Lorraine Guy, to Research Corporation. Method of inhibiting bacteria with germicidal tropolone polymer compositions. 3,424,841, 1-28-69, Cl. 424-82.
Donaruma, Lorraine Guy, to Research Corporation. Herbicidal tropolone esters. 3,472,893, 10-14-69, Cl. 260-471.
Donat, Frank J., to Goodrich, B. F., Company, The. Polyvinic chloride resin particles overcoated with a polymeric fluorine containing resin. 3,429,738, 2-25-69, Cl. 117-100.
Donatelli, Leonardo: *See*—
Musante, Carlo; Donatelli, Leonardo; and Lotti, runo,3,483,194.
Donath, Edwin W.: *See*—
Pierman, Martin J.; Donath, Edwin W.; and Ernst, Otto A.,3,463,003.
Donath, Edwin W., to Alnor Instrument Company. Temperature responsive controller system. 3,450,343, 6-17-69, Cl. 236-46.
Donath, Eric: *See*—
Barrekette, Euval S.; Donath, Eric; and Herd, Harold H.,3,423,740.
Donath, Henry. Pliers with zipper-reforming jaws. 3,461,713, 8-19-69, Cl. 72-409.
Donath, Siegfried; and Gahler, Werner, to General Motors Corporation. Internal combustion engine oil lubrication systems. 3,465,847, 9-9-69, Cl. 184-6.
Donati, Franco: *See*—
Ullmann, Werner; and Donati, Franco,3,439,146.
Donato, John A. Striking device. 3,427,021, 2-11-69, Cl. 272-76.
Donato, John A. Exercise bar having revolvable arms. 3,468,534, 9-23-69, Cl. 272-84.
Donato, Luigi; Gennaro, Gianni; and Giordani, Roberto, to European Atomic Energy Community (Euratom). Radio diagnostic scanner with separately moving scintillato—detectors. 3,428,805, 2-18-69, Cl. 250-71.5
Donche, Alain; and Thibault, Claude, to Societe Nationale des Petroles d'Aquitaine. Process for the preparation of iminodithiolanes. 3,442,907, 5-6-69, Cl. 260-327.
Donche, Alain; and Thibault, Claude, to Societe Nationale des Petroles d'Aquitaine. Process for the preparation of iminothiazolidines. 3,485,849, 12-23-69, Cl. 260-306.7
Dondzila, Frank A.; Restivo, Albert R.; and Yale, Harry L., to Squibb, E. R., & Sons, Inc. Synthesis of 2-substituted phenothiazines. 3,426,020, 2-4-69, Cl. 260-243.
Donelan, James Arthur; and Williams, Michael, to General Electric Company Limited, The. Method of making superconductive cables. 3,453,725, 7-8-69, Cl. 29-599.
Donelson, Harlan J., Jr. Variable speed material spreader. 3,429,419, 2-25-69, Cl. 198-128.
Donelson, Harlan J., Jr., to Remington Arms Company, Inc. Material spreader. 3,485,536, 12-23-69, Cl. 302-60.
Doner, Claude Edward: *See*—
Bailey, Robert Linton; and Doner, Claude Edward,3,477,032.
Donges, Ernst; and Janson, Hans Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing chlorine by electrolysis of aqueous hydrochloric acid. 3,486,994, 12-30-69, Cl. 204-128.
Donges, Ernst; Kohlhaas, Rudolf; Hloch, Albert; and Medic, Nikolaj, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for obtaining fluorine compounds from digestion solutions of crude phosphates with nitric acid or hydrochloric acid. 3,420,622, 1-7-69, Cl. 23-88.
Donges, Hans: *See*—
Stumpe, August Christian; Seelig, Anton; and Donges, Hans,3,476,979.
Donhauser, Friedl: *See*—
Ruckborn, Gunther; Donhauser, Friedl; and Huber, Johann,3,429,135.

Doniat, Denis: *See—*
Bonnemay, Maurice M.; Bronoel, Guy G.; Levart, Eugene; and Doniat, Denis,3,484,292.

Doniger, Jerry: *See—*
Schulz, Allan E.; and Doniger, Jerry,3,448,449.

Doniger, Jerry; and Berg, Jerry, to Bendix Corporation, The. Signal comparator for minimizing nuisance failure alarms. 3,482,234, 12-2-69, Cl. 340-248.

Doniger, Jerry; Schoenblum,Ervin; and Feintuch, Martin W., to Bendix Corporation, The. Automatic control system for landing an aircraft. 3,447,765, 6-3-69, Cl. 244-77.

Donitz, Dieter, to Voigtlander A.G. Structure for automatically focusing a projector. 3,421,815, 1-14-69, Cl. 353-99.

Donkers, Jacobus M., to Verschure & Co's Scheepswerf en Machinefabriek N.V. Method and apparatus for establishing a fixed support of a buoyant body in rough water. 3,429,127, 2-25-69, Cl. 61-46.5

Donkle, Lucius B., Jr.: *See—*
Lorden, William C.; McConnell, Kennedy; and Donkle, Lucius B., Jr.,3,473,642.

Donnally, Bailey L., to Lake Forest College. Process for producing negative hydrogen ions from protons. 3,424,904, 1-28-69, Cl. 250-84.

Donnally, Bailey L., to Lake Forest College. Process for producing negative hydrogen ions. 3,424,905, 1-28-69, Cl. 250-84.

Donne, Werner, to LKB-Produkter AB. Fluorescence radiation device radiating at 280 mμ wave length, and method of making same. 3,426,194, 2-4-69, Cl. 250-71.

Donneau, Pascal J. J.: *See—*
Nicaise, Robert C.; and Donneau, Pascal J. J.,3,451,805.

Donnell, Emerson Bradford, Jr.; and Calvert, William L., to Union Carbide Corporation. Heat sealing. 3,480,505, 11-25-69, Cl. 156-498.

Donnell, Luke W.: *See—*
Beale, Alvin F., Jr.; and Donnell, Luke W.,3,452,097.

Donnelley, R. R., & Sons Company: *See—*
Kile, Otho, 3,445,017.
Swanson, Kermit E., 3,466,030.
Thielen, Lawrence E., 3,427,967.

Donnelley, Reuben H., Corporation, The: *See—*
Schmollinger, Richard G., 3,477,528.

Donnelly, Charles A., Jr.; Gaffron, Bernard W.; and Stoll, Marvin A., to Minnesota Mining and Manufacturing Company. Portable light box and heat developing unit. 3,467,470, 9-16-69, Cl. 355-115.

Donnelly, Daniel J., to United States of America, Army. Weapon. 3,459,098, 8-5-69, Cl. 89-1.

Donnelly, James M., to Automatic Electric Laboratories, Inc. Memory plane for solenoid array memories. 3,466,622, 9-9-69, Cl. 340-174.

Donnelly, John F.; Larsen, Michael J.; and Webber, William O., to Esso Research and Engineering Company, mesne. Process control system for making butyl rubber. 3,427,138, 2-11-69, Cl. 23-260.

Donnelly Mirrors, Inc.: *See—*
Dykema, James A.; and Johnson, Roger D., 3,427,095.
Dykema, James A.; and Johnson, Roger D., 3,427,096.
Johnson, Roger D., 3,441,335.
Marcus, Konrad H., 3,454,692.
Van Noord, Andrew J., 3,467,465.

Donner, Edmund B., to Solar Engineering & Equipment Co. Glass bottle handling apparatus. 3,426,884, 2-11-69, Cl. 198-33.

Donner, Edmund B., to Solar Engineering & Equipment Co. Bottle letdown mechanism. 3,446,334, 5-27-69, Cl. 198-26.

Donner, Edmund B., to Solar Engineering & Equipment Co. Single file column forming apparatus. 3,465,868, 9-9-69, Cl. 198-30.

Donner, Edward O.; Keeler, Howard S.; Botjer, John L.; and Frye, Harold E., to International Business Machines Corporation. Display system with increased manuel input data rate. 3,453,384, 7-1-69, Cl. 178-6.8

Donner Electronics, Inc.: *See—*
Dolan, Bernard Joseph; and Jenner, Robert Kempton, 3,431,410.

Donner, Fred Albert, to Vermiculite Manufacturing Company. Process for fast curing alkali metal silicate bonded product. 3,466,354, 9-9-69, Cl. 264-57.

Donner, Verne P., to Deltrol Corp. Flow regulating valve. 3,424,196, 1-28-69, Cl. 137-504.

Donofrio & Company: *See—*
Donofrio, William T., 3,444,837.

D'Onofrio, Anthony. Electrical game of chance. 3,425,699, 2-4-69, Cl. 273-141.

Donofrio, William T., to Donofrio & Company. Utility vehicle. 3,444,837, 5-20-69, Cl. 115-1.

Donoho, Charles M.: *See—*
Lemon, Stanley G.; Eiseman, William F.; and Donoho, Charles M.,3,431,778.

Donohoe, Robert W. Electro-pneumatic porosity test method and means. 3,465,562, 9-9-69, Cl. 72-31.

Donohoo, Daniel J. Alerting apparatus. 3,445,810, 5-20-69, Cl. 340-56.

Donovan, David A., to RCA Corporation. Automobile control manipulating apparatus. 3,465,577, 9-9-69, Cl. 73-116.

Donovan, Donald W., to Monsanto Company. Tray structure. 3,420,431, 1-7-69, Cl. 229-2.5

Donovan, Donald W., to Monsanto Company. Packages. 3,424,363, 1-28-69, Cl. 229-2.5

Donovan, Donald W., to Monsanto Company. Sealed container. 3,452,921, 7-1-69, Cl. 229-45.

Donovan, Donald W., to Monsanto Company. Container having discharging means. 3,483,908, 12-16-69, Cl. 150-0.5

Donovan, Donald W.; and Nathan, Richard T., to Monsanto Company. Tray structure. 3,485,434, 12-23-69, Cl. 229-2.5

Donovan, John E.: *See—*
Bachelder, Albert J.; and Donovan, John E.,3,455,691.

Donovan, Lawrence J.: *See—*
Bickford, John H.; Haberstroh, Albert; and Donovan, Lawrence J.,3,469,741.

Donovan, Thomas A.; and Miltenberger, William E., to Anheuser-Busch Incorporated. Barrel cooler. 3,443,397, 5-13-69, Cl. 62-398.

Donovan, Timothy F.: *See—*
Cetran, Louis; and Donovan, Timothy F.,3,455,154.

Dontic Corporation: *See—*
Miller, Gilbert H., 3,485,993.

Doody, Frank X.: *See—*
Jensen, Charles C.; and Doody, Frank X.,3,464,824.

Doohan, Michael E., to Boise Cascade Corporation. Automatic sheet cutting and feeding apparatus. 3,443,462, 5-13-69, Cl. 83-81.

Dooley, James L.; and Gudmundsen, Austin, to McCulloch Corporation. Oil impregnating method and apparatus for chain. 3,463,267, 8-26-69, Cl. 184-1.

Dooley, John W., to Hewlett-Packard Company. Thermal conductivity detector. 3,474,660, 10-28-69, Cl. 73-27.

Dooley, Kerry A.; Rockhill, William E.; Swope, David L.; Thomas, Earl F.; and van Fossen, Ralph H., Jr., to Duncan Electric Company, Inc. Lightning arrester with the frustoconical surface of the parallel electrodes being exposed toward each other at the narrow end of a diverging spark slot. 3,467,877, 9-16-69, Cl. 313-325.

Dooley Lovelace Charles. Level determining device and apparatus. 3,443,319, 5-13-69, Cl. 33-209.

Dooley, Peter C., Jr., to Carborundum Company, The. Grinding machine. 3,451,385, 6-24-69, Cl. 125-11.

Dooley, Peter C., Jr., to Carborundum Company, The. Pressure applying apparatus. 3,458,960, 8-5-69, Cl. 51-215.

Dooley, William P., to Sun Oil Company. Hot melt adhesive containing a high melting polyhydroxy compound. 3,474,055, 10-21-69, Cl. 260-17.4

Doolin, Thomas J. Method and apparatus for backfilling and underpinning an underground coal or ore mine. 3,440,824, 4-29-69, Cl. 61-35.

Doolin, Wendell M.: *See—*
Londal, Ralph K.; Schroeder, Lloyd A.; and Doolin, Wendell M.,3,461,948.

Doolittle, Alton O. Colostomy or ileostomy device. 3,439,679, 4-22-69, Cl. 128-283.

Doolittle, Carl J.; and Pedigo, Roy B., to Singer Company, The. Antibacklash gear. 3,472,092, 10-14-69, Cl. 74-440.

Doolittle, Charles, to Westinghouse Air Brake Company. Needle valve device for adjusting cushioning in power cylinders and method of installing. 3,443,579, 5-13-69, Cl. 137-315.

Doolittle, Paul A. Decorative female hair piece. 3,433,235, 3-18-69, Cl. 132-53.

Doonan, Douglas D., to Bausch & Lomb, Incorporated. Photoelectric system for measuring optical density. 3,428,814, 2-18-69, Cl. 250-214.

Doonan, Douglas D., to Bausch & Lomb Incorporated. Gain control circuit for photomultiplier tubes with a semi-conductor device connected across the last resistor of the divider. 3,437,817, 4-8-69, Cl. 250-207.

Doonan, Douglas D., to Bausch & Lomb Incorporated. Switching system for detecting a plurality of physical quantities in a consecutive timing sequence. 3,465,143, 9-2-69, Cl. 250-43.5

Door-Oliver, Incorporated: *See—*
Fitch, Elliot B., 3,420,624.

Doorenbos, Harold E.; and Smith, Harry A., to Dow Chemical Company, The. Curable copolymers of perhaloacetones and unsaturated epoxides. 3,468,847, 9-23-69, Cl. 260-63.

Doores, Vernon R.: *See—*
Dillard, James W.; and Doores, Vernon R.,3,431,798.

Doornbos, George H.: *See—*
Booth, William M.; Doornbos, George H.; Rander, Robert H.; and Knutson, John W.,3,445,038.

Doose, Conrad; Hemmerich, Hans; and Sassin, Wolfgang, to Kernforschungsanlage Julich des Landes Nordrhein Westfalen-e.V. Fluid-conveying arrangement. 3,466,886, 9-16-69, Cl. 62-55.

Dopera, Rudolph. Guitar construction. 3,435,721, 4-1-69, Cl. 84-296.

Doppelt, Lawrence; and Rodriguez, Augustin, to Goldberger Doll Mfg. Co., Inc. Walking doll. 3,445,956, 5-27-69, Cl. 46-149.

Doppelt, Max J. Cigarette holder. 3,460,544, 8-12-69, Cl. 131-198.

Doppelt, Max J. Cigarette. 3,469,584, 9-30-69, Cl. 131-10.

Dopper, Otto; Bollig, Georg; Schroder, Egbert; Kuppers, Klaus; and Schulz, Alfred, to Schloemann Aktiengesellschaft. Turn-layers with an Edenborn rotating laying tube. 3,469,429, 9-30-69, Cl. 72-134.

Doppler, Leonard H.: *See—*
Hardy, John F.; and Doppler, Leonard H.,3,480,425.

Doquire, Gilbert; and Tasset, Michel, to Glaverbel S.A. Process and apparatus for controlling a continuous spray to produce intermittent marks. 3,434,865, 3-25-69, Cl. 117-37.

Doran, Leo F.: *See—*
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J.,3,421,351.
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J.,3,468,146.

Doran, Peter: *See—*
Ray, Neil Hunter; and Doran, Peter,3,463,804.

Doran, Raymond C.: *See—*
Ferree, Herbert E.; and Doran, Raymond C.,3,450,962.

Dorand, Pierre Rene Leon Bernard, to Giravions Dorand. Jet flap control. 3,456,904, 7-22-69, Cl. 244-42.

Dorand, Pierre Rene Leon Bernard, to Giravions Dorand. Jet flaps. 3,478,987, 11-18-69, Cl. 244-42.

Dore, Arthur J.; Herndon, John A.; and Wasserman, Norman, to Bell Telephone Laboratories, Incorporated. Assembly for mounting and aligning modules. 3,447,036, 5-27-69, Cl. 317-99.

Dore, Charles Frank Gamblin, to National Research Development Corporation. Skeletal molecular models. 3,452,452, 7-1-69, Cl. 35-18.

Dore, James E.; and Carey, Richard R., to Olin Mathieson Chemical Corporation. Process for purifying copper base alloys. 3,434,825, 3-25-69, Cl. 75-76.

Dore, John L., Co.: *See—*
Bayley, Graham Edward; and Lott, William R., 3,462,825.
Weeden, Frank G.; Pope, Gerald R.; Petrosky, Willard L.; and Murphee, Burleigh R., 3,435,853.

Dore, Karl H. Animated figure. 3,442,040, 5-6-69, Cl. 40-106.35

Dore, Louis A., Jr.: *See—*
Martin, Harry C., 3,444,575.

Doremus, Krouse, Foundry Co.: *See—*
Doremus, R. Ellsworth; and Doremus, Richard E., 3,431,936.

Doremus, R Ellsworth; and Doremus, Richard E., to Golden Gate Manufacturing Company. Valve. 3,455,327, 7-15-69, Cl. 137-323.

Doremus, R. Ellsworth; and Doremus, Richard E., to Doremus, Krouse, Foundry Co. Valve with washout slot. 3,431,936, 3-11-69, Cl. 137-323.

Doremus, R. Ellsworth; and Doremus, Richard E., to Golden Gate Manufacturing Company. Valve with stop and washout. 3,476,138, 11-4-69, Cl. 137-323.

Doremus, Richard E.: *See—*
Doremus, R. Ellsworth; and Doremus, Richard E.,3,431,936.
Doremus, R Ellsworth; and Doremus, Richard E.,3,455,327.
Doremus, R. Ellsworth; and Doremus, Richard E.,3,476,138.

Dorer, Casper J., Jr., to Lubrizol Corporation, The. Reaction products of phosphite diesters with imidazolines or oxazolines. 3,440,247, 4-22-69, Cl. 260-307.

Dorer, Casper J., Jr., to Lubrizol Corporation, The. Basic metal-containing reaction products and method of making same. 3,453,212, 7-1-69, Cl. 252-49.7

Dorer, Casper J., Jr. Lubrizol Corporation, The Fuels containing amine phosphate anti-icing compositions. 3,460,923, 8-12-69, Cl. 44-72.

Dorer, Casper J., Jr.: *See—*
Miller, Clark O.; and Dorer, Casper J., Jr.,3,427,141.

Dorey, Edward M.: *See—*
Andrews, James E., 3,460,702.

Dorey, George B., to Continental Transport Appliances Limited. Hopper car door actuating mechanism. 3,447,485, 6-3-69, Cl. 105-251.

Dorey, George B. System for automatically operating discharge doors of railway cars. 3,452,886, 7-1-69, Cl. 214-63.

Dorey, Howard A., to Solartron Electronic Group Limited, The. Dual-slope analog-to-digital converters. 3,458,809, 7-29-69, Cl. 324-99.

Dorey, Howard Anthony: *See—*
Metcalf, Eric; and Dorey, Howard Anthony,3,439,271.

Dorf, Richard C.; and Liang, Thomas G. Step motor control system. 3,448,362, 6-3-69, Cl. 318-138.

Dorfelt, Christoph, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of diacetyl compounds. 3,433,829, 3-18-69, Cl. 260-496.

Dorfelt, Christoph, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brunning. Process for preparing dihydroxy compounds. 3,442,957, 5-6-69, Cl. 260-615.

Dorfelt, Christoph; and Lorz, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Heat-and light-stabilized molding compositions containing tin stabilizers. 3,442,852, 5-6-69, Cl. 260-45.75

Dorfler, Gerhard, to Gebr. Bohler & Co. Aktiengesellschaft. Apparatus for a linear analysis of surfaces of a structurally heterogeneous substance comprising phases giving different responses to the incidence. 3,479,506, 11-18-69, Cl. 250-49.5

Dorfman, Daniel, to Lawn-A Mat Chemical and Equipment Corporation. Variable rate particulate dispenser. 3,463,360, 8-26-69, Cl. 222-139.

Dorfman, Edwin; and Bean, Claude Thomas, Jr., to Hooker Chemical Corporation. Process for preparing perfluoroalkylthioimidates. 3,420,884, 1-7-69, Cl. 260-566.

Dorfman, Edwin; and Weil, Edward D., to Hooker Chemical Corporation. Methods of controlling bacteria, fungi, nematodes and weed pests with tetrahalohydroxy- benzamides. 3,459,534, 8-5-69, Cl. 71-118.

Dorfman, Edwin: *See—*
Newcomer, Jack S.; Weil, Edward D.; and Dorfman, Edwin,3,458,640.
Weil, Edward D.; Dorfman, Edwin; and Linder, Jerome,3,467,622.

Dorfman, Jerome J. Plastic film bags and carrying handle. 3,429,497, 2-25-69, Cl. 229-54.

Dorfman, Jerome J. Plastic film bags and carrying handle. 3,429,498, 2-25-69, Cl. 229-54.

Dorfman, Ralph I., to Syntex Corporation. Pest control compositions and method. 3,476,859, 11-4-69, Cl. 424-317.

Dorfman, Steven D.: *See—*
Olson, Gaylord G.; and Dorfman, Steven D.,3,453,047.

Dorfman, William A.: *See—*
Thompson, Douglas J., 3,453,630.

Dorfmann, Oskar, to Federal Carton Corporation. Box closing machine. 3,462,914, 8-26-69, Cl. 53-201.

Dorfner, Konrad: *See—*
Adam, Karl; Haarer, Erich; and Dorfner, Konrad,3,478,112.

Dorgelo, Eduard G., to U.S. Philips Corporation, mesne. Magnetron casing. 3,465,201, 9-2-69, Cl. 315-39.51

Doring, Dieter: *See—*
Ryerson, Olaf R.; and Doring, Dieter,3,474,261.

Doring, Erich, to International Patente Establishment. Sound transducer instrument. 3,482,841, 12-9-69, Cl. 274-9.

Doring, Erwin: *See—*
Bihlmaier, Oskar; Greger, Paul; and Doring, Erwin,3,474,714.

Doring, Gunter: *See—*
Hoppe, Hans; Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang,3,440,023.
Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang,3,445,185.

Doring, William H.: *See—*
Brindley, Robert E.; and Doring, William H.,3,456,102.

Doring, William H.; and Brindley, Robert E., to Brindley, Robert E. Union Carbide Corporation. Portable rechargeable lighting device. 3,441,730, 4-29-69, Cl. 240-10.63

Dorion, George Henry: *See—*
Williams, Bernard Leo; and Dorion, George Henry,3,451,816.

Dorit Chemie-und Handels AG.: *See—*
Weibel, Jaques, 3,459,577.

Dorlars, Alfons; and Neuner, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Arylpyrazolyl-(1)-stilbene compounds. 3,449,333, 6-10-69, Cl. 260-240.

Dorlars, Alfons; Neuner, Otto; and Putter, Rolf, to Farbenfabriken Bayer Aktiengesellschaft. Substituted v-triazolyl-2-stilbenes and their use for brightening materials. 3,453,268, 7-1-69, Cl. 260-240.

Dorlars, Alfons; Neuner, Otto; and Putter, Rolf, to Farbenfabriken Bayer Aktiengesellschaft. v-Triazole-(2)-stilbenes. 3,459,744, 8-5-69, Cl. 260-240.

Dorlars, Alfons; Neuner, Otto; and Putter, Rolf, to Farbenfabriken Bayer Aktiengesellschaft. V-triazolyl-substituted stilbenes. 3,485,831, 12-23-69, Cl. 260-240.

Dorm Corporation, The: *See—*
Marsh, Charles W., 3,425,870.

Dorman, Ervin L.: *See—*
Bloomfield, Leo B.; Hogg, Walter R.; Coulter, Wallace H.; and Dorman, Ervin L.,3,473,010.

Dorman, Hugh H.: *See—*
Avis, John M.; and Dorman, Hugh H.,3,478,910.

Dorman, Isidore, to NB Jackets Corporation. Diazo film developer. 3,446,135, 5-27-69, Cl. 95-89.

Dorman, Linneaus C., to Dow Chemical Company, The. 3,5-Dihalo-4-cyanoalkoxy phenols. 3,468,926, 9-23-69, Cl. 260-465.

Dormount Allen Company Inc.: *See—*
Massey, John P., 3,426,922.

Dorn, Conrad P., Jr.: *See—*
Shen, Tsung-Ying; and Dorn, Conrad P., Jr.,3,466,372.
Shen, Tsung-Ying; Dorn, Conrad P., Jr.; and Ruyle, William V.,3,452,079.
Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr.,3,438,992.
Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr.,3,444,175.

Dorn, Conrad P.; and Shen, Tsung-Ying, to Merck & Co., Inc. Acetic acid type compounds. 3,457,300, 7-22-69, Cl. 260-515.

Dorn, Henry J.; and Brockett, Halford E., to Continental Can Company, Inc. Closure seal for containers having screw threaded necks. 3,465,907, 9-9-69, Cl. 215-40.

Dorn, Henry J.: *See—*
Wright, Norbert L.; and Dorn, Henry J.,3,439,718.

Dorn, Rolf K., to Lummus Company, The. Cyclonic cracking vapor heat exchanger inlet for solids removal. 3,449,212, 6-10-69, Cl. 196-136.
Dorn, Thomas E.: *See—*
Anthony, Myron L., 3,443,411.
Anthony, Myron L., 3,452,695.
Dornaus, Reinert F., to Price-Pfister Brass Manufacturing Company. Single-handled valve structure. 3,476,149, 11-4-69, Cl. 137-625.4
Dornberger, Georg; and Wahl, Frank, to Western Electric Company, Incorporated. Rotatable, counterweighted electrode probe and carriage apparatus for capacitively measuring the outer sheath of moving conductor cable. 3,470,463, 9-30-69, Cl. 324-61.
Dornbos, Russell H., to Gerwin Industries, Inc. Turnbuckles. 3,442,000, 5-6-69, Cl. 29-175.
Dornbush, Albert Carl: *See—*
Berenson, Herman; Dornbush, Albert Carl; and Wehner, Donald Clifford,3,432,341.
Dornbush, Ross J., to Mead Corporation, The. Dispensing container. 3,478,948, 11-18-69, Cl. 229-17.
Dorner, Harro: *See—*
Burkart, Hermann; Dorner, Harro; and Bayersdorfer, Werner,3,447,568.
Dorner, Nikolaus; Freitag, Herbert; Sautter, Hans-Dieter; Schafer, Willi; and Doetsch, Hans-Peter, to Stabilus, Industrie und Handelsgesellschaft m.b.H. Column of adjustable length. 3,447,645, 6-3-69, Cl. 188-96.
Dornier G.m.b.H.: *See—*
Jervan, Oivind, 3,485,464.
Dornier System G.m.b.H.: *See—*
Wieland, Ernst; and Dietrich, Albert, 3,451,642.
Wieland, Ernst; and Zimmermann, Gunter, 3,456,255.
Wieland, Ernst, 3,456,901.
Dornier-Werke G.m.b.H.: *See—*
Buchstaller, Anton, 3,451,647.
Jakab, Gabor, 3,423,051.
Jakab, Gabor, 3,438,600.
Dornow, Alfred,: *See—*
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred,3,453,277.
Dornow, Gerda: *See—*
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred,3,453,277.
Dornow, Hartmut: *See—*
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred,3,453,277.
Dornow, Volker: *See—*
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred,3,453,277.
Dorr, Frank I., Jr. Ground connection and method of making the same. 3,458,643, 7-29-69, Cl. 174-6.
Dorr, Joseph P., to Capitol Tool and Manufacturing Co., Inc. Ink fountain for printing press. 3,439,609, 4-22-69, Cl. 101-366.
Dorr-Oliver Incorporated: *See—*
Albertson, Orris E., 3,423,309.
Albertson, Orris E., 3,485,750.
Beeken, David William, 3,423,840.
Budd, William E.; and Powers, Thomas J., 3,470,091.
Budd, William E.; and Okey, Robert W., 3,472,765.
Carder, Frank B.; Wright, Robert; Canade, George F.; and Stein, Daniel, 3,472,175.
Cookney, Ernest W., 3,465,887.
Darby, George M., 3,486,628.
Edwards, Earl E., 3,482,702.
Emilsson, Sven Olov, 3,471,027.
Evans, Philip, 3,485,366.
Haakon, C. F. Oyen; and Oyen, Haakon C. F., 3,438,501.
Halbach, Ralph H., 3,443,746.
Honeychurch, Robert W., 3,484,040.
Hubbard, Peter J., 3,432,101.
Jablon, Theodore M., 3,465,888.
Jablon, Theodore M., 3,466,016.
Jablon, Theodore M., 3,482,704.
Jackson, Clifford E., 3,478,885.
Keller, Leon D.; and Sandstrom, Eric L., 3,452,874.
Keller, Leon D., 3,485,365.
Lee, Graham, 3,485,375.
Leonard, Daniel C.; and Lamb, Fredrick M., 3,427,892.
Leonard, Daniel C.; and Fell, James A., 3,484,008.
Miles, Harry V., II, 3,463,216.
Nyrop, Per; and Elsken, James C., 3,424,312.
Regel, Arthur A., 3,485,378.
Riker, Walter J., 3,471,026.
Sheaffer, John A., 3,455,454.
Dorrance, Ray E.: *See—*
Farmer, Charlie F., 3,441,307.
Dorries, O., Gesellschaft mit beschrankter Haftung: *See—*
Lothmann, Franz, 3,452,442.
Dorris, Joseph E. Beam clamp. 3,469,810, 9-30-69, Cl. 248-228.
Dorris, Maurice Thomas. Magnetically synchronized vibrator apparatus. 3,449,969, 6-17-69, Cl. 74-61.
Dorsch, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Measuring the specific gravity of gases and liquids and apparatus therefor. 3,420,092, 1-7-69, Cl. 73-32.
Dorschu, Karl E.; and Rolnick, Jerome M., to Air Reduction Company, Incorporated. Welding electrode and composition. 3,453,142, 7-1-69, Cl. 117-205.
Dorsett, Henry Carl, to Friden, Inc. Board insertion and extraction system. 3,476,258, 11-4-69, Cl. 211-41.
Dorsett Industries, Inc.: *See—*
Dorsett, Loyd G., 3,481,052.
Dorsett, Loyd G., to Dorsett Industries, Inc. Aural/visual information system. 3,481,052, 12-2-69, Cl. 35-8.
Dorsett, Ronald: *See—*
Haselgrove, Bob; Dorsett, Ronald; and Bryan, Leonard Thomas Frank,3,439,637.
Dorsey, Denis P.; and Bruce, Ross W., to RCA Corporation. Synchronizing system for television receivers. 3,469,032, 9-23-69, Cl. 178-69.5
Dorsey, Edward G., Jr.: *See—*
McCullough, Edward E.; and Dorsey, Edward G., Jr.,3,446,437.
Dorsey, Francis E., to Maul Bros. Inc. Lehr for heat treating glass. 3,476,543, 11-4-69, Cl. 65-349.
Dorsey, James C., to Du Pont de Nemours, E. I., and Company. Colorimetric indicator control of polyamide salt stoichiometry. 3,476,713, 11-4-69, Cl. 260-78.
Dorsey, Mason H. Lubrication system. 3,481,431, 12-2-69, Cl. 184-7.
Dorsey, Robert James, to Wehr Corporation. Press mold box assembly. 3,447,205, 6-3-69, Cl. 18-34.
Dorsey, Ted C.: *See—*
Ransom, Paul R.; and Dorsey, Ted C.,3,469,185.
Dorsey, Walter: *See—*
Nihlen, Arvid C. K.; and Dorsey, Walter,3,468,372.
Dorsman, Adrian K., to North American Rockwell Corporation. Three-axis magnetic suspension system. 3,458,239, 7-29-69, Cl. 308-10.
Dorst, Stanley O., to Sprague Electric Company. Film resistor and method. 3,481,779, 12-2-69, Cl. 117-213.
Dorstewitz, Virgil D., to Tru Point Products, Inc. Pencil lead holder with fixed length feed. 3,450,482, 6-17-69, Cl. 401-67.
Dortmann, Heinz-Adolf: *See—*
Schnegg, Robert; Pelousek, Herbert; Dippelhofer, Robert; Nordt, Herbert; and Dortmann, Heinz-Adolf,3,449,297.
Dortort, Isadore K., to I-T-E Imperial Corporation. Series reactor construction for parallel-connected thyristors. 3,467,851, 9-16-69, Cl. 321-27.
Dorwald, Rudolf, to Bendix Corporation, The, mesne. Replaceable vacuum-tight current feedthroughs. 3,435,128, 3-25-69, Cl. 174-151.
Dorwart, George E., III: *See—*
Gaughan, Philip J.; Dorwart, George E., III; and Lord, John B.,3,425,952.
Dorwart, George E., III, to Betz Laboratories, Inc. Control of foam formation in the synthesis of phosphoric acid. 3,437,437, 4-8-69, Cl. 23-165.
Gaughan, Philip J.; Dorwart, George E.; and Lord, John B.,3,427,252.
Dory, Jacques, to Realisations Ultrasoniques. Ultrasonic apparatus for measuring thickness or distances. 3,423,992, 1-28-69, Cl. 73-67.9
Dory, Jacques, to Realisations Ultrasoniques. Ultrasonic testing apparatus for material in sheet or foil. 3,431,774, 3-11-69, Cl. 73-67.8
Dory, Jacques, to Corporation Realisations Ultrasoniques. Ultrasonic pulse distance measuring device. 3,454,922, 7-8-69, Cl. 340-1.
Dorzan, Peter A. Protective mounting for a dial indicator. 3,427,908, 2-18-69, Cl. 82-34.
Dosal, Martin R.; and Salas-Humara, Carlos. Boat drain and valve unit. 3,479,981, 11-25-69, Cl. 114-183.
Dosch, Peter, to Heberlein & Co. AG. Slub-catcher measuring apparatus with automatic switching from first to second sensitivity. 3,444,382, 5-13-69, Cl. 250-219.
Dosch, Peter; Benz, Emil; and Bruhin, Paul, to Heberlein & Co. AG. Electronic device for surveying the presence of weft thread in weaving looms. 3,467,149, 9-16-69, Cl. 139-371.
Dosch, Peter; and Galia, Karl, to Heberlein & Co. AG. Slub-catcher for threads with essentially one-dimensional light source and sensor located in plane perpendicular to thread. 3,441,738, 4-29-69, Cl. 250-219.
Dosch, Peter; and Heck, Reinhard H., to Heberlein & Co. AG. Volume measurement of thread defects by directly integrating signals representing variations in thread thickness. 3,477,021, 11-4-69, Cl. 324-61.
Dosch, Peter; Kraus, Hans J.; and Uhrig, Hans, to Gesellschaft fur Kernforschung m.b.H. Nuclear reactors shutdown. 3,483,082, 12-9-69, Cl. 176-36.
Doser, Manfred: *See—*
Gielisse, Peter J.; and Doser, Manfred,3,435,398.
Gielisse, Peter J.; and Doser, Manfred,3,435,399.

Doss, Nagib A., to GAF Corporation. Monohalotriazinyl azo dyestuff. 3,453,255, 7-1-69, Cl. 260-153.
Doss, Richard C., to Phillips Petroleum Company. Self-contained curable resins prepared by reacting organic isocyanates and epoxy alcohols. 3,440,230, 4-22-69, Cl. 260-77.5
Doss, Richard C., to Phillips Petroleum Company. High strength epoxy resins prepared from epichlorohydrin and xylylene glycols. 3,477,966, 11-11-69, Cl. 260-2.
Doss, Robert J., to Avco Corporation. Multi-purpose receiver with single detector for demodulating a plurality of types of signals. 3,457,513, 7-22-69, Cl. 325-317.
Dossert Manufacturing Corporation: *See*—
Jechin, Harry, 3,487,159.
Dossier, Michel. Friction couplings with wedges one-way. 3,447,650, 6-3-69, Cl. 192-41.
Dosso, Felice: *See*—
Gonsalves, George E.; and Dosso, Felice,3,423,113.
Dost, Raymond M., to Dow Chemical Company, The. Method and apparatus for the insulation of conduit. 3,444,279, 5-13-69, Cl. 264-45.
Dost, Sieme; and Duncker, Michiel J., to American Enka Corporation. Method and apparatus for detecting irregularities in a moving sheet of yarn. 3,447,213, 6-3-69, Cl. 28-51.
Dostal, Jiri, to Vyzkumny ustav matematickych stroju. Method and apparatus for determining the symmetry factor of a transistor. 3,436,660, 4-1-69, Cl. 324-158.
Dostel, John J.: *See*—
Shaw, John S.; Dostel, John J.; White, Donald K.; Elste, Edwin S.; Kellogg, John F.; and O'Neale, John D.,3,460,827.
Dotson, Billy J.; and Connally, Carl, Jr., to Mobil Oil Corporation. Waterflood process employing surfactant and graded viscosity. 3,434,542, 3-25-69, Cl. 166-273.
Dotson, Billy R.; Morrison, Edward D.; and Williams, Robert F., Jr., to Eastman Kodak Company. Heat and solvent sealable polyolefin films. 3,483,023, 12-9-69, Cl. 117-122.
Dotson, Ronald L.; and Lowry, Benjamin S., Jr., to Dow Chemical Company, The. Amalgamation process. 3,450,607, 6-17-69, Cl. 204-34.
Dotson, Ronald L.; and Simmons, Billy H., to Dow Chemical Company, The. Process for purifying mercury. 3,437,476, 4-8-69, Cl. 75-103.
Dotter, Charles T.: *See*—
Cook, William A.; van Westrum, Anthony Colby S.; Dotter, Charles T.; and Bilbao, Marcia Kepler,3,481,323.
Dottlinger, Alfred. Plunger assembly and writing instrument. 3,424,536, 1-28-69, Cl. 401-112.
Dotto, Gianni A., to Mallory, P. R., & Co. Inc. Synchronous motor. 3,427,485, 2-11-69, Cl. 310-164.
Dotto, Gianni A. Automotive semiconductor ignition control apparatus. 3,437,876, 4-8-69, Cl. 315-219.
Dotto, Gianni A., to Mallory, P. R., & Co., Inc. Electric speedometer including a stepwise actuated permanent-magnet motor. 3,447,076, 5-27-69, Cl. 324-70.
Dotto, Gianni A., to Mallory, P. R., & Co., Inc. Magnetic snap action switch. 3,447,110, 5-27-69, Cl. 335-207.
Dotto, Gianni A. Capacitor discharge ignition system. 3,453,492, 7-1-69, Cl. 315-209.
Dotto, Gianni A., to Mallory, P. R., & Co., Inc. Shaded pole synchronous motor. 3,459,981, 8-5-69, Cl. 310-156.
Dotto, Gianni A., to Mallory, P. R., & Co., Inc. Fluid level control system. 3,477,460, 11-11-69, Cl. 137-392.
Dotts, Walter M., Jr.: *See*—
Jamgochian, Haigh, 3,462,901.
Dotts, Walter M., Jr. Air flotation process for removal of particles of suspended matter from water. 3,429,809, 2-25-69, Cl. 210-44.
Doty, James E., to Smith Kline & French Laboratories. Suture winding card. 3,443,771, 5-13-69, Cl. 242-85.1
Doty, John T. Automatic latch and locking tongs. 3,479,078, 11-18-69, Cl. 294-104.
Doty, Leete P. Portable cooking grill. 3,430,621, 3-4-69, Cl. 126-25.
Doty, Myrle M. Saw blade. 3,477,479, 11-11-69, Cl. 143-131.
Doty, Vernon G.: *See*—
Gatzke, Harold E.; Ariens, Mando S.; and Doty, Vernon G.,3,450,074.
Doty, William T.: *See*—
Carter, Paul H.; Marion, Thomas E.; Morse, Raymond L.; and Doty, William T.,3,460,317.
Dotzauer, Bernhard: *See*—
Reinhard, Hans; Hoelscher, Friedrich; and Dotzauer, Bernhard,3,423,232.
Dotzer, Richard: *See*—
Bogner, Gunther; and Dotzer, Richard,3,428,925.
Bogner, Gunther; and Dotzer, Richard,3,428,926.
Dotzer, Richard, to Siemens Aktiengesellschaft. Method of producing onium-salt complex compounds. 3,448,127, 6-3-69, Cl. 260-429.
Doub, Leonard, to Parke, Davis & Company. Dihalogenated alkoxydiphenyliodonium salts. 3,422,152, 1-14-69, Cl. 260-612.
Double Envelope Corporation: *See*—
Aliff, Rufus G., Jr.; Herndon, Carl Douglas; and Miller, Thomas Dalton, 3,472,444.
Aliff, Rufus G., Jr.; and Miller, Thomas D., 3,482,764.
Double, Plummer E.; and Abbrecht, Herman R., said Double assor. to Multifastener Corporation. Nut-panel assembly. 3,439,723, 4-22-69, Cl. 151-41.73
Doucas, Pierre: *See*—
Delarue, Lucien; and Doucas, Pierre,3,482,557.
Doucet, Charles, to Doucet S.A. Filtering apparatus. 3,471,024, 10-7-69, Cl. 210-225.
Doucet S.A.: *See*—
Doucet, Charles, 3,471,024.
Doucette, Edmund J. Sectionalized table. 3,463,099, 8-26-69, Cl. 108-111.
Doucette, Eugene F., to Packaging Frontiers, Inc. Packaging apparatus. 3,456,422, 7-22-69, Cl. 53-112.
Douches, Joseph Luke: *See*—
Hillman, Gary; and Douches, Joseph Luke,3,486,441.
Doudet, Michel, to Presses et Materiels Hydrauliques Morane-Somua. Guide for the slide of a vertical press. 3,465,669, 9-9-69, Cl. 100-214.
Doudlebsky, Ctibor; Fajt, Ludvik; Bucil, Frantisek; and Kabele, Stanislav, to Vyzkumny Ustav Bavlnarsky. Apparatus for separating fibers. 3,434,184, 3-25-69, Cl. 19-83.
Dougall, John, to Lucas, Joseph(Industries)Limited. Electromagnetic horns. 3,456,254, 7-15-69, Cl. 340-388.
Dougan, Roger R.; Thompson, Francis T.; and Rubner, Tibor, to Westinghouse Electric Corporation. Telephone-computer-process for communicating data and telephone signal decoder therefor. 3,444,324, 5-13-69, Cl. 179-2.
Doughboy Industries, Inc.: *See*—
Denker, Stanley D., 3,430,358.
Denker, Stanley D., 3,460,494.
Scharmer, Edward H., Jr., 3,443,539.
Tetrick, John D., 3,481,106.
Dougherty, Gerald; and Hall, Lewis W., Jr., to Avisun Corporation. Strippable coatings. 3,442,833, 5-6-69, Cl. 260-17.
Dougherty, Patrick F.: *See*—
Closs, George M.; and Dougherty, Patrick F.,3,464,219.
Dougherty, Thomas F., Jr.; Mac Nutt, William J.; and McKelvey, William J., to Bell Telephone Laboratories, Incorporated. Control circuitry for crossbar switches. 3,476,980, 11-4-69, Cl. 317-157.
Doughty, Frederic C., to Burroughs Corporation. Magnetic thin film memory assembly. 3,444,536, 5-13-69, Cl. 340-174.
Doughty, Frederic C., to Burroughs Corporation. Coupling device. 3,446,983, 5-27-69, Cl. 307-83.
Doughty, Harold A.: *See*—
Howarth, Walter H.; Snow, Gerald A.; and Doughty, Harold A.,3,458,108.
Doughty, John Carr. Knitting machine. 3,446,036, 5-27-69, Cl. 66-8.
Doughty, John Carr. Knitting machine. 3,456,459, 7-22-69, Cl. 66-13.
Doughty, Randall H.: *See*—
Fung, Frederick S. T.; and Doughty, Randall H.,3,451,878.
Doughty, Robert A.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,464,012.
Douglas & Lomason Company: *See*—
Roeschen, William R., 3,472,291.
Douglas Aircraft Company, Inc.: *See*—
Jaffee, Robert I., 3,427,706.
Douglas Barnes Limited: *See*—
Barnes, Douglas T. R. W., 3,486,407.
Douglas, Bradley C., to Alco Controls Corporation. Temperature piloted evaporator pressure control. 3,452,929, 7-1-69, Cl. 236-80.
Douglas, Bryce; and Weisbach, Jerry A., to Smith Kline & French Laboratories. Substituted indolo[2,3-α]quinolizinium salts. 3,455,936, 7-15-69, Cl. 260-294.3
Douglas, Bryce; and Weisbach, Jerry A., to Smith Kline & French Laboratories. 3,3-Bis(carbo-lower alkoxy) indolo [2,3-a] quinolizinium salts. 3,480,637, 11-29-69, Cl. 260-294.3
Douglas, Catherine M.: *See*—
Herring, David L.; and Douglas, Catherine M.,3,454,634.
Herring, David L.; and Douglas, Catherine M.,3,457,196.
Douglas, Clifford G.; and Guttridge, George H. G., to Bambino Electronics Limited, mesne. Random selection electrical combination locks. 3,468,143, 9-23-69, Cl. 70-277.
Douglas, David W.: *See*—
Smith, Charles J.; Jamieson, Hugh W.; and Douglas, David W.,3,458,205.
Douglas, Edgar H., to CRC Crose International, Inc. Internal pipe clamp. 3,445,104, 5-20-69, Cl. 269-48.1
Douglas, Edward; and Walsh, Terence, to National Research Development Corporation. Dry separation of mixtures of solid materials. 3,444,996, 5-20-69, Cl. 209-44.
Douglas, Gavin L.; and Simpson, Jack W., Sr., to International Business Machines Corporation. Numeric display. 3,432,845, 3-11-69, Cl. 340-324.

Douglas, George B.: *See—*
Eberhardt, Roland C.; and Douglas, George B.,3,428,224.
Douglas, George H.: *See—*
Teller, Daniel M.; Douglas, George H.; and Smith, Herchel,3,465,009.
Douglas, George R., Jr.: *See—*
Lagana, James S., 3,446,956.
Douglas, Gilbert R.: *See—*
Siebold, Howard; and Douglas, Gilbert R.,3,446,072.
Douglas, Harold Roy; and Snider, Ivan W., to Dominion Tar & Chemical Company Limited. Preparation of magnesium bisulfite liquor. 3,428,420, 2-18-69, Cl. 23-132.
Douglas, Howard N. Apparatus for honing flanges in cast concrete pipe. 3,458,958, 8-5-69, Cl. 51-119.
Douglas, McDonnell Corporation: *See—*
Brown, Earl J.; Crowder, James R.; and Karl, Raymond O., 3,434,940.
McIntire, Kenneth D., Jr.; and Wallace, Bruce W., 3,428,002.
Douglas, Peter L., to Brown Citrus Machinery Corporation. Citrus oil recovery from emulsions. 3,464,976, 9-2-69, Cl. 260-236.6
Douglas, Peyton W. Coin-operated switches and the like. 3,455,425, 7-15-69, Cl. 194-9.
Douglas, Raymond J.; Handler, Elliott; Iwasaki, Cedric E.; Kossoff, Joseph; and Ryan, John W., to Mattel, Inc. Self-propelled figure toy combination. 3,475,857, 11-4-69, Cl. 46-247.
Douglas, Robert L., to Parker Pen Company, The. Ball point writing instrument. 3,458,266, 7-29-69, Cl. 401-209.
Douglas, Robert Stoddart. Chassis dynamometer. 3,465,578, 9-9-69, Cl. 73-117.
Douglass, Donald C., to Beckman Instruments, Inc. Motor speed regulator. 3,470,437, 9-30-69, Cl. 318-308.
Douglass, George A.: *See—*
Morton, Ted R.; and Douglass, George A.,3,446,172.
Douglass, Harry H., to United States of America, Navy, mesne. Transistor push-pull output circuit. 3,451,000, 6-17-69, Cl. 330-15.
Douglass, James R. Hopper car shaker. 3,458,065, 7-29-69, Cl. 214-64.2
Douglass, Walter H., Sr., to TRW Inc. Method of welding a metal piece to fine wires. 3,466,419, 9-9-69, Cl. 219-91.
Douglass, Walter H., Sr.: *See—*
Wellard, Charles L.; and Douglass, Walter H., Sr.,3,475,714.
Douk's Experiment:*See—*
De Coster, Frank A., 3,435,312.
Doulton & Co., Limited: *See—*
Bulcock, Clifford James; and Edwards, Terence, 3,484,543.
Rose, Kenneth, 3,473,599.
Doundoulakis, George J. Triple storage tube narrow band television. 3,459,886, 8-5-69, Cl. 178-6.8
Doundoulakis, George: *See—*
Winik, Leon; and Doundoulakis, George,3,469,026.
Dounoucos, Angelo: *See—*
Dibelius, Norman R.; and Dounoucos, Angelo,3,457,918.
Dounoucos, Angelo, to General Electric Company. Totally enclosed liquid permselective membrane. 3,447,286, 6-3-69, Cl. 55-16.
Douros, John D., Jr.; and Naslund, Lars A., to Esso Research and Engineering Company. Production of amino acids by the fermentation of C_{18}-C_{22} olefins. 3,440,141, 4-22-69, Cl. 195-28.
Douros, John D., Jr.; and Vanderwerff, William D., to Sun Oil Company. N,N-di-lower alkyl-2-naphthamide as an algaecide. 3,481,730, 12-2-69, Cl. 71-67.
Douta, Kikuo; Matumaru, Haruo; and Nishimura, Takeo, to Hitachi, Ltd. Method of manufacturing integrated circuits. 3,430,334, 3-4-69, Cl. 29-577.
Doutillon, Gabriel: *See—*
du Bellay, Marc Griffon; and Doutillon, Gabriel,3,450,493.
Doutt, Kingsley A. Valve. 3,477,687, 11-11-69, Cl. 251-100.
Douty, Donald L., to United States Steel Corporation. Rack and method of making the same. 3,446,361, 5-27-69, Cl. 211-153.
Douty, Donald L., to United States Steel Corporation. Sectional drinking goblet. 3,482,731, 12-9-69, Cl. 220-69.
Douwes, Cornelis Th.: *See—*
Kouwenhoven, Herman W.; and Douwes, Cornelis Th.,3,432,565.
Dove, Douglas J. A.: *See—*
Connor, William G.; Wright, Donald F.; and Dove, Douglas J. A.,3,438,562.
Dove, Oral L., to Williams Industries Inc. Dice shaker. 3,468,543, 9-23-69, Cl. 273-145.
Dove, William T.: *See—*
Bernard, Robert A.; Dove, William T.; and Smith, Julian C.,3,442,026.
Doveinis, Juozas; Gionet, Edmond R.; and Wittenberg, William J., to General Motors Corporation. Slidable guide assembly. 3,466,802, 9-16-69, Cl. 49-428.
Dover Chemical Corporation: *See—*
Cohen, Robert Seldon, 3,481,991.
Dover Corporation: *See—*
Burtis, Wilson A., 3,455,562.
Guertin, Robert W.; and Murray, Robert L., 3,473,569.
Iordanidis, Demetre, 3,474,886.
Moore, Glenn E.; and Lemon, Stephen C., 3,439,942.
Parks, Asbury S., 3,448,750.
Wilson, Fred A.; and Moore, Glenn E., 3,433,387.
Dover Molded Products Company: *See—*
Williams, Robert J., 3,437,224.
Dovey, Kenneth D.: *See—*
Hull, John L.; Dovey, Kenneth D.; La Rose, William T., Sr.; and Trembley, John R.,3,473,196.
Dow, Alan. Spark plug carrier. 3,429,424, 2-25-69, Cl. 206-1.
Dow Chemical Company , The: *See—*
Sheetz, David P.; and Filer, Terry D., 3,444,219.
Vincent, Gerald G; and Lamos, Richard C., 3,447,460.
Dow Chemical Company, The: *See—*
Amos, James L.; Baretta, Edward D.; and Dahl, James J., 3,428,707.
Amstutz, Forrest C., 3,457,304.
Anderson, Robert E.; and Jones, Giffin D., 3,438,893.
Anderson, Robert E., 3,441,376.
Anderson, Robert E.; and Gouin, Albert J., 3,460,965.
Archer, Wesley L.; and Simpson, Elbert L., 3,444,247.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard, 3,444,248.
Archer, Wesley L.; and Harter, Miriam, 3,449,262.
Archer, Wesley L.; and Simpson, Elbert L., 3,452,107.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard, 3,452,108.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard, 3,452,109.
Archer, Wesley L.; and Simpson, Elbert L., 3,454,659.
Archer, Wesley L.; and Graybill, George Richard, 3,467,722.
Archer, Wesley L.; and Simpson, Elbert L., 3,468,966.
Archer, Wesley L.; and Simpson, Elbert L., 3,472,903.
Archer, Wesley L.; and Simpson, Elbert L., 3,475,503.
Ashby, Theodore L.; and Dick, Clarence R., 3,462,400.
Ashby, Theodore L.; and Parrish, Donald B., 3,480,601.
Atkins, Bobby L.; and Harper, Billy G., 3,429,954.
Atkins, Bobby L., 3,434,971.
Bargeron, Kim G.; and Soderquist, Fred J., 3,441,625.
Barksdale, Jelks; and Coker, William P., 3,425,855.
Baron, Joseph J., Jr.; and Kveglis, Albert A., 3,429,865.
Bash, Charles W.; and Lane, George A., 3,432,370.
Bashaw, Robert N.; and Harper, Billy G., 3,480,546.
Bauer, David L., 3,425,796.
Beale, Alvin F., Jr.; and Donnell, Luke W., 3,452,097.
Bell, Fred E., Jr., 3,438,567.
Bennett, Foster C., 3,448,898.
Bicknell, Robyn D., 3,459,048.
Bieler, Barrie H.; and Madison, Robert P., 3,464,550.
Blair, Etcyl H.; and Fischback, Bryant C., 3,455,938.
Blase, George W., 3,472,388.
Bond, George C.; Ham, George E.; and Hamilton, Dallas E., 3,424,790.
Booker, James L.; and Fredrickson, Robert E., 3,420,619.
Boudreaux, Joseph R., 3,475,334.
Boudreauz, Joseph R.; and Roberts, Reginald F., Jr., 3,446,795.
Boyer, Raymond F.; Grenley, Dallas G.; and Anspaugh, Robert H., 3,462,839.
Bradley, James R., 3,455,393.
Braeuninger, Karl F.; and Glaza, Gordon K., 3,460,304.
Braeuninger, Karl F.; and Glaza, Gordon K., 3,477,350.
Breidt, Peter, Jr.; and Lefevre, Lloyd E., 3,432,588.
Bremmer, Bart J., 3,426,035.
Bremmer, Bart J., 3,442,974.
Brown, James A.; Garrett, Walter L.; and Wielicki, Henry, 3,467,603.
Brown, William E.; Heitz, Roberg G.; and Levine, Charles A., 3,476,602.
Brust, Harry F., 3,437,685.
Bryner, Fred, 3,436,300.
Bublitz, Donald E., 3,466,283.
Budd, William E.; and Powers, Thomas J., 3,470,091.
Budde, Paul B.; and Tolkmith, Henry, 3,433,798.
Budde, Paul B.; and Tolkmith, Henry, 3,466,369.
Burk, George A., 3,431,068.
Burk, George A.; and De Mott, Donald N., 3,456,041.
Burkett, Francis L., 3,441,196.
Burkett, Francis L., 3,444,282.
Burkett, Francis L.; and Lee, Richard J., 3,464,085.
Button, George F.; and Childress, David L., 3,463,816.
Caiola, Robert J.; and Rokosz, Leo F., 3,459,710.
Callihan, Clayton D.; Boudreaux, Joseph R.; and Smith, Cecil L., 3,448,100.
Carbone, Anthony J., 3,434,849.
Chandler, Arthur D., Jr.; and Florestano, Herbert J., 3,471,615.
Cheney, Grant W., 3,441,983.
Cheney, Grant W., 3,450,807.
Cheney, Grant W., 3,466,701.
Chisholm, Douglas S., 3,424,832.
Chisholm, Douglas S., 3,448,183.
Chisholm, Douglas S.; and Best, John S., 3,448,513.

Chisholm, Douglas S., 3,483,281.
Clarke, James A.; and Lopez, Romeo, 3,451,950.
Clock, Gerald E., 3,471,317.
Coker, William P.; and Ham, George E., 3,462,493.
Colburn, Lyle W., 3,454,491.
Collins, Guy Robert, 3,471,436.
Collins, Leon A., 3,420,093.
Coulter, Albert W., Jr.; Copeland, Claude T.; and Kucera, Clare H., 3,443,386.
Courter, Leo A., 3,436,084.
Cousar, James F., 3,459,295.
Craig, Richard L., 3,458,485.
Cramm, Russell H.; and McFadden, Russell T., 3,440,232.
Crowe, Curtis W.; and Duranleau, Roger G., 3,436,262.
Crowe, Curtis Wendell, 3,482,636.
Csaszar, Frank C., 3,485,788.
Davis, Ralph A., 3,459,588.
Davis, Ralph A.; and Larsen, Eric R., 3,483,279.
Decker, Dalton L.; Moore, Carl; and Tousignant, William F., 3,454,657.
DeLong, Herbert K.; and Ritzema, Donald E., 3,447,973.
Dennis, Kent S., 3,458,491.
Denslow, Keith R., 3,428,720.
Dewey, John L., 3,440,070.
Dick, Clarence R., 3,455,849.
Dick, Clarence R., 3,459,686.
Dickerson, Richard T., 3,463,813.
Dickerson, Richard T., 3,466,342.
Dietzler, Andrew J.; and Bradley, Kenneth B., 3,449,443.
Dishburger, Henry J.; and Coker, William P., 3,467,608.
Doorenbos, Harold E.; and Smith, Harry A., 3,468,847.
Dorman, Linneaus C., 3,468,926.
Dost, Raymond M., 3,444,279.
Dotson, Ronald L.; and Simmons, Billy H., 3,437,476.
Dotson, Ronald L.; and Lowry, Benjamin S., Jr., 3,450,607.
Du Plessis, Louis A., 3,440,044.
Dunbar, Joseph E., 3,449,323.
Dunbar, Joseph E.; and Rogers, Joan H., 3,462,472.
Dunn, James L., Jr., 3,466,757.
Dunn, James L., Jr., 3,471,372.
Ehrenford, Frank A., 3,469,006.
Eilers, Louis H.; and Parks, Christ F., 3,421,584.
Eilers, Louis H., 3,480,084.
Ellis, John T., 3,420,192.
Ephraim, Salim N., 3,472,913.
Erickson, Robert E.; and Wittbrodt, Edwin L., 3,440,184.
Faith, Herman E., 3,437,691.
Farber, Hugh A.; and Safranski, John C., Jr., 3,474,078.
Farber, Hugh A., 3,475,353.
Felmlee, William J., 3,443,592.
Fenley, Milton J., Jr., 3,455,514.
Finlayson, Lloyd Taylor; and Doan, Hazen V., 3,474,823.
Fischback, Bryant C., 3,426,031.
Fischback, Bryant C.; and Harris, Guy H., 3,457,310.
Fishaber, Marvin H.; and Hickerson, John D., 3,473,984.
Fletcher, Jon E.; and Nelson, Rodney A., 3,462,496.
Flynn, James P., 3,443,882.
Foerster, George S., 3,463,637.
Foerster, George S.; and Ott, Jack J., 3,481,732.
Fredrickson, Robert E.; and Erhard, Albert E., 3,441,403.
Frevel, Ludo K., 3,479,992.
Frevel, Ludo K., 3,479,993.
Friedli, Hans R., 3,462,495.
Frost, John R., 3,448,187.
Fry, William Charles David; Parker, Patrick Neiland; Ross, William M., Jr.; and Parry, Jimmy H., 3,447,608.
Garcia, Bartolome; and Head, Billy D., 3,448,161.
Gardner, John B.; Smith, Charles F.; and Harper, Billy G., 3,472,752.
Gaska, Remigius A.; and Goodenough, Robert D., 3,424,562.
Gaska, Remigius A.; and Goodenough, Robert D., 3,429,668.
Gaska, Remigius A.; and Canute, Robert A., 3,482,938.
Gensler, Jay Don, 3,420,682.
George, Percy F., 3,441,491.
Gerdes, Walter F., 3,435,661.
Gerdes, Walter F., 3,474,661.
Gibbs, Dale S.; Miles, Wallace J.; and Kochaney, Eugene, 3,468,703.
Gibbs, Dale S., 3,483,154.
Gilbert, Herman S.; and Lorette, Nicholas B., 3,428,412.
Gilbert Herman S., 3,444,708.
Gold, William L., 3,424,591.
Goodenough, Robert D.; and Kelly, James A., 3,423,187.
Goodenough, Robert D.; Place, John; and Gunkler, Albert A., 3,436,345.
Goodwald, Herman R.; and Schechter, Dale L., 3,423,283.
Goodwald, Herman R.; and Schechter, Dale L., 3,436,302.
Goodwald, Herman R., 3,455,777.
Grant, Charles H., 3,432,371.
Grant, Charles H.; and Slykhouse, Thomas E., 3,462,324.
Grant, Charles H., 3,475,238.
Grinstead, Robert R., 3,424,563.
Grinstead, Robert R., 3,433,604.
Gulbenk, Alin H., 3,471,496.
Gurgiolo, Arthur E.; and Holmes, William S., 3,420,791.
Gurgiolo, Arthur E.; and Langner, Ralph R., 3,462,379.
Hall, Richard H.; Lamson, Junior J.; Sikkema, Andrew J.; and Roberts, Carleton W., 3,424,823.
Hall, Richard H.; Lamson, Junior L.; and Sikkema, Andrew J., 3,426,103.
Ham, George E.; and Phillips, Prella M., 3,444,201.
Hamilton, Charles E.; Teal, James L.; and Kelly, James A., 3,442,802.
Hamilton, Charles E., 3,475,282.
Hansen, Robert D., 3,475,159.
Hardy, John L., 3,462,532.
Harmer, David E.; Mount, Ramon A.; and Vanderbush, James J., Jr., 3,480,534.
Harriman, Lester W.; Muehlberg, Paul E.; and Teumac, Fred N., 3,438,811.
Harrison, Ian R.; Smith, Harry A.; and Handlovits, Carl E., 3,451,873.
Harry, Lawrence D., 3,431,237.
Hart, Gerald M.; and Rieke, James K., 3,480,485.
Hart, Gerald M.; and Gunderman, Glen L., 3,480,506.
Hatch, Asa E., 3,483,120.
Hatch, Melvin J., 3,426,046.
Hatch, Melvin J., 3,442,912.
Hatch, Melvin J., 3,455,967.
Hatch, Melvin J., 3,462,462.
Hebert, Norman T., 3,455,870.
Heinert, Dietrich H.; and Burgert, Bill E., 3,457,287.
Heinert, Dietrich H., 3,470,228.
Heinert, Dietrich H., 3,478,090.
Heinert, Dietrich H., 3,480,627.
Herscher, Leonard W.; and Bartz, Arnold M., 3,472,253.
Hibbard, Billy B., 3,432,454.
Hickner, Richard A., 3,444,111.
Hickner, Richard A., 3,471,564.
Hittel, George T.; and Karpovich, John, 3,454,428.
Hittel, George T., 3,457,108.
Hollis, Oscar Le Roy, 3,458,976.
Holmes, George W., 3,483,163.
Hook, Fred E.; Kucera, Clare H.; and Scott, L. J., Jr., 3,465,825.
Hook, Fred E., 3,483,007.
Horne, Dorothy H., 3,452,016.
Horsley, Lee H., 3,433,824.
Horsley, Lee H., 3,440,287.
Huml, James O.; and Layne, Gilbert S., 3,477,812.
Humphrey, Loren K.; Dunning, Robert A.; and Layman, Curtis A., 3,423,040.
Huyser, Earl S.; and Hartzell, Gordon E., 3,429,933.
Jahn, Alex K.; and Nelson, Alfred R., 3,442,881.
Jernigan, Jack W., 3,466,259.
Johnston, Nelson G., 3,449,255.
Jones, Giffin D.; and McMillan, William J., 3,459,565.
Juckniess, Paul R.; and Blue, Robert D., 3,477,876.
Karle, Franklin J.; and Gohlke, Roland S., 3,471,735.
Katze, Melvin F., 3,439,713.
Katzer, Melvin F., 3,435,618.
Katzer, Melvin F.; and Pye, David J., 3,461,674.
Katzer, Melvin F., 3,468,322.
Kearns, Kenneth Lee, 3,474,909.
Kelly, James A.; and Teal, James L., 3,448,018.
Kelyman, Jacqueline S., 3,462,448.
Kelyman, Jacqueline S., 3,475,440.
Kenaga, Duane L., 3,428,484.
Kenaga, Eugene E., 3,445,576.
Kent, Raymond W., Jr.; and Hock, Kenneth R., 3,453,356.
King, Peter F., 3,438,771.
Klingbail, Robert L., 3,469,009.
Knieriem, Herman, Jr., 3,482,928.
Krienke, Marcus E., 3,438,262.
Kucera, Clare H., 3,465,824.
Kuhn, Stephen J., 3,431,087.
Lacy, George H., 3,480,464.
Lane, George A.; and Smith, William A., 3,471,345.
Lane, George A.; Smith, William A.; and Van Wert, Ralph B., 3,475,237.
Lane, Robert E., 3,467,684.
Langer, Horst G., 3,432,438.
Langer, Horst G.; and Starkovsky, Nicolas A., 3,435,037.
Langer, Horst G., 3,442,922.
Langer, Horst G., 3,453,079.
Langer, Horst G., 3,454,610.
Langer, Horst G., 3,471,250.
Layne, Gilbert S.; and Huml, James O., 3,438,731.
Leasure, John K.; and Mussell, Dorsey R., 3,421,881.
Ledbetter, Harvey D., 3,478,008.
Lee, John M., 3,445,253.
Lee, John M., 3,449,088.

Lee, Lieng-Huang, 3,424,730.
Lee, Richard J., 3,480,168.
Lee, Robert E.; and Donald, Harold J., 3,477,099.
Lee, Walter J., 3,458,466.
Lefevre, Lloyd Edward, 3,423,498.
Lefevre, Lloyd Edward, 3,457,338.
Lefevre, Lloyd Edward; and Breidt, Peter, Jr., 3,479,425.
Legler, Bobby, 3,462,393.
Lemelson, Jerome H., 3,432,326.
Levine, Charles A., 3,442,780.
Levine, Leonard, 3,439,051.
Levine, Leonard, 3,458,509.
Levine, Leonard, 3,475,441.
Little, John C.; and West, James P., 3,440,029.
Liu, Gordon Y. T.; and Strange, Carl P., 3,420,916.
Long, Ray S.; and Tveter, Elmer C., 3,432,255.
Longoria, Juan, III; and Strother, Greene W., Jr., 3,462,383.
Lovett, Joe B., 3,419,934.
Lowes, Fred J., Jr., 3,460,897.
Lyons, Charles E., 3,454,662.
MacWilliams, Dalton C.; and Hansen, Robert D., 3,451,764.
Mahon, Henry I.; and Oldershaw, Charles F., 3,455,460.
Majewski, Theodore E.; and Tarkowski, Daniel W., 3,449,395.
Majewski, Theodore E., 3,477,451.
Malhotra, Sudarshan K.; Moakley, Douglas F.; and Johnson, Francis, 3,463,810.
Martin, Allan D.; and Houvener, Irving S., 3,478,139.
Maskal, John; Thompson, Ivan M.; and Waldron, George W., 3,447,899.
McClendon, Jack C.; and Dick, Clarence R., 3,470,136.
McClendon, Jack C., 3,478,003.
McIntyre, John S., 3,462,458.
McLain, Earl A., 3,422,008.
McLain, Earl A.; and Mahon, Henry I., 3,423,491.
McLain, Earl A., 3,475,331.
McMichael, Wallace T., 3,459,924.
McMillan, William J., 3,444,277.
McMillan, William J., 3,468,989.
Merica, Edward P., 3,441,615.
Merrill, Claude E., 3,449,433.
Merriman, Wayne R., 3,448,003.
Meyer, Victor E.; Tacey, Clarence J.; and Houggy, Dennis E., 3,422,038.
Mildner, Raymond C., 3,480,725.
Miles, Wallace J.; Lapham, Rodger J.; and Hahn, Harold G., 3,431,228.
Miller, Donald L.; Madison, Norman L.; and Rausch, Douglas A., 3,423,334.
Miller, Walter O.; and Weseloh, John W., Jr., 3,447,495.
Mills, Jack F.; and McAnallen, Charles K., 3,452,137.
Mills, Jack F., 3,462,363.
Miron, Simon; and Holmes, Wesley E., 3,426,091.
Mogford, Riley F.; and Thurman, Carl C., Jr., 3,461,086.
Moolenaar, Robert J.; and Neipert, Marshall P., 3,447,897.
Moore, William G., 3,437,435.
Morgan, George H.; and Langner, Ralph R., 3,483,021.
Morris, Leo R., 3,425,821.
Mussell, Dorsey R., 3,432,286.
Nagle, Floyd B., 3,485,782.
Nelson, Kenneth E.; Kipfmiller, Billy G.; and Parizek, Earl, 3,429,942.
New, Harry E.; and Green, Dick R., 3,470,836.
Newton, John R., 3,425,145.
Newton, Robert A., 3,424,691.
Newton, Robert A., 3,428,567.
Nimerick, Kenneth H.; and White, Jerry L., 3,483,927.
Noddings, Charles R.; and Dietzler, Andrew J., 3,420,887.
Noddings, Charles R.; and Cleary, Robert D., 3,432,571.
Noddings, Charles R.; and Kelly, James A., 3,438,602.
Noddings, Charles R.; Cleary, Robert D.; and Gates, Ronald G., 3,459,815.
Nolan, Thomas J., III; and Smith, Charles F., 3,467,192.
Nowak, Robert M.; and Glesner, William K., 3,431,597.
Nowak, Robert M.; and Jones, Giffin D., 3,446,760.
Oja, Phyllis D., 3,441,142.
Olstowski, Franciszek, 3,423,496.
Olstowski, Franciszek; and Mezoff, John G., 3,431,970.
Olstowski, Franciszek, 3,440,181.
Olstowski, Franciszek; and Osborn, Oliver, 3,440,311.
Olstowski, Franciszek; and Watson, John D., Sr., 3,444,276.
Olstowski, Franciszek; and Guebert, Kenneth W., 3,448,181.
Oosterbaan, Marvin D., 3,421,328.
Osborn, Oliver; and Robertson, John C., 3,482,963.
Parker, Patrick N.; and Wahl, Winton W., 3,448,800.
Parker, Vernon D., 3,448,019.
Parsons, Curtis P., 3,448,729.
Patterson, Gerald D., 3,436,720.
Pawloski, Chester E.; and Moore, Eugene R., 3,440,229.
Piegols, Norman L.; and Bon, Charles K., 3,447,896.
Pitchforth, Lehi L., Jr.; and Struthers, James A., 3,472,798.
Pitts, Charles A., 3,444,928.
Pitts, Charles A., 3,451,476.
Pitts, Charles A., 3,454,087.
Prueter, Elton D.; and Walles, Wilhelm E., 3,472,665.
Pumpelly, Charles T.; Pedjac, Joseph J.; and Larsen, Eric R., 3,454,658.
Pumpelly, Charles T.; Pedjac, Joseph J.; and Somerville, John S., 3,480,600.
Reding, John N., Jr.; and Berhenke, Norman H., 3,420,658.
Reding, John T.; and Newport, John J., III, 3,424,666.
Reich, Cecil F., 3,458,354.
Reifschneider, Walter; and Kelyman, Jacqueline S., 3,483,244.
Repko, John P., 3,448,853.
Repko, John P., 3,453,661.
Repko, John P., 3,456,867.
Repko, John P., 3,469,768.
Repko, John P., 3,480,198.
Rigterink, Raymond H., 3,471,489.
Rigterink, Raymond H., 3,478,148.
Roberts, Carleton W.; and Travis, Gale D., 3,422,117.
Roberts, Carleton W.; and Pews, Richard Garth, 3,424,803.
Roberts, Carleton W.; and Travis, Gale D., 3,440,248.
Roberts, Carleton W., 3,444,222.
Roberts, Carleton W., 3,444,239.
Roberts, Carleton W.; and Travis, Gale D., 3,452,045.
Roberts, Charles B.; and Toner, Darell D., 3,444,227.
Rolf, Ramon F., 3,471,285.
Ronden, Clifford P.; and Yu, John, 3,425,966.
Ronden, Clifford P.; and Yu, John, 3,445,404.
Ronden, Clifford P.; and Yu, John, 3,462,380.
Rosenbaum, Shlomo, 3,472,766.
Rosenbrock, Earl H.; and Doedens, James D., 3,444,130.
Rosenbrock, Earl H.; and Doedens, James D., 3,444,131.
Rudzik, Allen D., 3,449,501.
Rudzik, Allen D., 3,485,921.
Safranski, John C., Jr., 3,479,306.
Samuels, Jack E., 3,446,631.
Sanders, James A., Jr., 3,475,244.
Saunders, Frank L.; and Oswald, James H., 3,449,270.
Savage, Albert B.; and Aldrich, Julius C., 3,468,685.
Scheffler, Norman E.; and Brown, Frederick Le Roy, 3,449,194.
Scheffler, Norman E., 3,449,268.
Schertzer, John, 3,449,074.
Schmidt, Donald L.; and Daniels, Arthur L., 3,435,059.
Schmidt, Donald L.; and Hellmann, Reinhold, 3,462,288.
Schnebelen, David F.; Young, Warren L.; Blanchard, Robert R.; and Graham, Glen H., 3,467,732.
Schrenk, Walter J., 3,444,031.
Schrenk, Walter J., 3,480,502.
Schrenk, Walter J.; and Chisholm, Douglas S., 3,485,912.
Schroeder, Robert E.; West, Walter H.; and Mick, William F., 3,461,505.
Scott, Charles R., 3,434,846.
Sederlund, Edward R.; and Schrenk, Walter, 3,472,924.
Sewell, Sewood; and Katzer, Melvin F., 3,477,467.
Seyferth, Dietmar, 3,426,021.
Shier, George D., 3,442,883.
Shier, George D., 3,458,562.
Shrum, William E.; and Laursen, Larry J., 3,439,869.
Shrum, William E., 3,485,439.
Shulgin, Alexander T., 3,429,889.
Simpson, Donald W., 3,426,111.
Skochdopole, Richard E.; and Denslow, Keith R., 3,425,965.
Slykhouse, Thomas E.; Werth, Kenneth E.; and Volk, Henry, 3,446,681.
Smith, Harry A., 3,475,376.
Smith, Hubert S.; and Wright, Donald R., 3,443,276.
Smith, Hubert S., Jr.; and Wright, Donald R., 3,423,791.
Smith, Hubert Stacey; Wright, Donald R.; and Chisholm, Douglas S., 3,458,609.
Smith, Vernon J.; and Webster, Charles R., 3,477,698.
Smith, William E.; and Neumann, Fred W., 3,466,337.
Smith, William F., 3,484,507.
Soderquist, Frederick J.; Boyce, Harold D.; and Kline, Paul E., 3,435,086.
Sosnowski, Louis J., Jr.; and Haller, Samuel L., 3,448,491.
Spence, Thomas C., 3,436,304.
Stafford, Owen L.; Wing, Donald V.; and Stolsmark, Duane E., 3,442,981.
Stafford, Owen L., 3,446,785.
Starkovsky, Nicolas A.; and Langer, Horst G., 3,435,007.
Stenger, Vernon A.; and Vanhall, Clayton E., 3,421,856.
Stenger, Vernon A.; and Van Hall, Clayton E., 3,459,938.
Stephens, Bernard B.; and Conder, Robert L., 3,457,048.
Stober, Kenneth E., 3,436,326.
Stowe, Stephen C., 3,425,801.
Strand, Norman S., 3,423,375.
Strauss, William J., 3,445,315.
Strycker, Stanley J., 3,436,417.
Strycker, Stanley J., 3,440,249.
Strycker, Stanley J., 3,485,817.

Swanson, Norman; Kirk, Richard O.; and Woodward, George E., 3,433,832.
Taplin, William H., III, 3,420,833.
Taplin, William H., III, 3,424,754.
Telkes, Maria, 3,440,130.
Teumac, Fred N., 3,447,965.
Teumac, Fred N., 3,451,801.
Teumac, Fred Norman, 3,475,346.
Thomison, William C.; and Slykhouse, Thomas E., 3,456,589.
Thomison, William C., 3,474,732.
Thomka, Laddie M., 3,464,546.
Thompson, Ivan M.; and Maskal, John, 3,451,774.
Thurman, Carl C., Jr., 3,478,017.
Tigner, Ruben A., 3,454,158.
Tobey, Stephen W., 3,441,481.
Tolkmith, Henry; and Senkbeil, Herman O., 3,450,713.
Tomalia, Donald A., 3,449,396.
Tomalia, Donald A., 3,471,544.
Tomalia, Donald A., 3,480,649.
Tong, Yu-Lan Chang; Tomalia, Donald A.; and Sheetz, David P., 3,454,597.
Topolski, Alvin S.; and Trumbull, Walter A., 3,480,189.
Trepainer, Donald L., 3,463,777.
Trepanier, Donald L., 3,420,825.
Trepanier, Donald L., 3,420,826.
Trepanier, Donald L., 3,423,424.
Trepanier, Donald L.; and Krieger, Paul E., 3,428,631.
Trepanier, Donald L.; and Harris, Guy H., 3,428,632.
Trepanier, Donald L.; and Harris, Guy H., 3,428,635.
Trepanier, Donald L., 3,432,497.
Trepanier, Donald L., 3,463,807.
Trepanier, Donald L., 3,471,485.
Trepanier, Donald L., 3,471,486.
Trepanier, Donald L., 3,471,487.
Trepanier, Donald L., 3,471,488.
Trepanier, Donald L., 3,481,972.
Trombley, Edgar F.; and Trombley, Bertrand N., 3,456,864.
Tzentis, Leonidas S., 3,435,665.
Vanderhoff, John W., 3,432,413.
Vaught, Leonard M.; and Cervenka, Lee Roy, 3,439,080.
Vincent, Gerald G.; and Burkholder, Joseph E., 3,437,536.
Vincent, Gerald G.; and Saunders, Frank L., 3,466,207.
Vincent, Gerald G.; and Burkholder, Joseph E., 3,468,753.
Von Tress, William R.; and Enos, James H., 3,436,444.
Wade, Lisby L.; and Landram, James F., 3,475,536.
Wagner, Eugene, 3,450,714.
Wagner, Eugene R., 3,462,431.
Wagner, Eugene R.; and Rudzik, Allen D., 3,463,857.
Wagner, Eugene R., 3,485,850.
Walles, Wilhelm E., 3,435,296.
Walles, Wilhelm E.; and Leff, Stanley S., 3,440,012.
Walles, Wilhelm E., 3,449,339.
Walles, Wilhelm E., 3,450,674.
Walles, Wilhelm E.; and Nagy, Donald J., 3,465,674.
Walters, Harold A.; and Gooch, Ralph M., 3,442,755.
Walters, Harold A., 3,479,811.
Wang, Samuel S. M., 3,485,843.
Waples, George E., Jr., 3,471,459.
Waples, George E., Jr., 3,485,784.
Wasco, Joseph L., 3,435,050.
Watson, John D., Sr.; Mod, William A.; and Teumac, Fred N., 3,475,163.
Weber, Christian A.; and Vincent, Jerome L., 3,467,569.
Weissenberg, Ulrich W., 3,440,006.
Weissenberg, Ulrich W., 3,466,299.
Welsh, William M.; and Atkins, Bobby L., 3,428,470.
Wernette, Gary E.; and Jankowiak, Erwin M., 3,467,558.
Wessling, Ritchie A.; and Settineri, William J., 3,480,525.
Wessling, Ritchie A.; and Settineri, William J., 3,480,527.
Wharton, Willard H.; and Cooper, Barry A., 3,478,131.
White, Halbert C., 3,423,422.
White, Halbert C., 3,423,423.
White, Halbert C., 3,449,354.
White, Halbert C., 3,449,355.
White, Halbert C., 3,449,356.
White, Halbert C., 3,449,357.
Widiger, Alexander H., Jr., 3,440,290.
Wiggins, Glenn C., 3,434,904.
Windecker, Leo J., 3,427,689.
Windecker, Leo J., 3,448,546.
Windecker, Leo J., 3,467,345.
Wineland, William H., 3,476,639.
Wolf, Paul A.; and Prince, Allen K., 3,443,970.
Woody, Robert, 3,473,714.
Woody, Robert, 3,479,896.
Wright, Donald R., 3,442,992.
Wymore, Charles E.; and Wheaton, Robert M., 3,438,892.
Yocum, Ronald H., 3,475,388.
Young, David M., 3,446,586.
Young, Warren L.; and Posey, Bob, Jr., 3,454,544.
Ziegler, Earl E., 3,479,779.
Zimmerman, Robert L., 3,437,643.
Zimmerman, Robert L.; and Pickelman, Dale M., 3,458,484.
Zingg, Warren M.; and Swift, Paul P., 3,457,431.
Zingg, Warren M., 3,477,758.

Dow Chemical Company,The: *See*—
Trepanier, Donald L., 3,428,678.

Dow Corning Corporation: *See*—
Ames, Richard H., 3,452,757.
Atwell, William H., 3,465,018.
Atwell, William H., 3,478,078.
Atwell, William H., 3,478,079.
Barry, Arthur J.; and Plueddemann, Edwin P., 3,481,815.
Bartos, Donald M.; and Price, Raymond J., 3,440,587.
Beck, Henry Nelson, 3,455,872.
Bennett, Donald R; Stark, Forrest O.; and Vogel, George E., 3,453,194.
Braley, Silas A., Jr.; and Helmer, Jerry D., 3,422,813.
Brown, Eric D., 3,461,185.
Burda, Charles J., 3,439,676.
Bylsma, Harold R., 3,453,136.
Campbell, James K., 3,423,314.
Campbell, James K.; and Clark, Harold A., 3,460,216.
Campbell, James K.; and Richter, Roberta C., 3,485,661.
Campbell, James Kermit, 3,423,235.
Cekada, Joseph, Jr.; and Weyenberg, Donald R., 3,433,780.
Cekada, Joseph, Jr.; and Weyenberg, Donald R., 3,445,415.
Chaffee, Roger G., 3,445,483.
Culpepper, Alan L., 3,440,262.
Currin, Cedric G., 3,460,510.
Davidson, James B., 3,434,869.
Flatt, Donald V., 3,453,233.
Frisch, Eldon E., 3,440,314.
Frye, Cecil L., 3,427,338.
Frye, Cecil L., 3,461,165.
Frye, Cecil L., 3,465,020.
Gergle, Richard C.; and Merricks, James A., 3,433,667.
Gerow, Frank J., 3,455,299.
Gordon, David J., 3,464,183.
Gowdy, William G.; and Keil, Joseph W., 3,453,248.
Gowdy, William G., 3,481,768.
Grindahl, George A.; and Pierce, Ogden R., 3,453,275.
Haase, Frederick R.; and Noguera, Julio T., 3,473,170.
Haluska, Loren A., 3,458,554.
Hampton, James F., 3,465,016.
Harper, Jack R., 3,455,762.
Hartlein, Robert C., 3,453,243.
Holbrook, George W.; and Pierce, Ogden R., 3,423,445.
Jerome, George A., 3,445,554.
Keil, Joseph W., 3,477,901.
Keil, Joseph Woodward; and Whipple, Clyde Lee, 3,460,981.
Kern, Edward L., 3,434,776.
Kern, Edward L., 3,455,723.
Kern, Edward L.; and Jerome, George A., 3,455,745.
Kern, Edward L.; and Hamill, Dennis W., 3,463,666.
Kern, Edward L.; and Cain, Orison J., 3,465,278.
Kim, Yung Ki; and Pierce, Ogden R., 3,478,076.
Kokoszka, John G.; and Yates, Gerald P., 3,462,384.
Kookootsedes, Gust J.; and Plueddemann, Edwin P., 3,445,420.
Kookootsedes, Gust J., 3,453,234.
Larson, Willard D., 3,453,232.
Layne, Douglas K., 3,445,267.
Layne, Douglas K.; Northrup, Hal J.; and Weber, Carl D., 3,445,417.
Lee, Chi-Long, 3,445,426.
Loree, Lorne A., 3,423,299.
Loree, Lorne A., 3,456,024.
McKellar, Robert L., 3,427,271.
McKellar, Robert L., 3,445,389.
McVannel, Donald E., 3,440,264.
Metevia, Virgil L.; and Polmanteer, Keith E., 3,453,228.
Metevia, Virgil L., 3,485,662.
Nelson, Lee E., 3,445,495.
Northrup, Hal J., 3,427,270.
Ostrowski, Leon J., 3,485,904.
Plueddemann, Edwin P., 3,427,339.
Plueddemann, Edwin P., 3,427,340.
Plueddemann, Edwin P., 3,453,230.
Plueddemann, Edwin P., 3,455,877.
Plueddemann, Edwin P., 3,461,027.
Plueddemann, Edwin P.; and Vincent, Harold L., 3,461,095.
Quaal, George J., 3,423,236.
Quaal, George J., 3,440,214.
Quaal, George J., 3,455,878.
Rauner, Lawrence A., 3,455,839.
Renwick, William C., 3,476,842.
Ryan, John W., 3,445,496.
Saam, John C., 3,440,261.
Speier, John L., 3,440,267.
Speier, John L.; Keil, Joseph W.; and Gowdy, William G., 3,440,302.

Speier, John L., 3,445,425.
Speier, John L., 3,465,015.
Speier, John L., 3,485,857.
Stark, Forrest O.; Valicenti, John A.; and Vogel, George E., 3,453,193.
Stebleton, Leo F., 3,460,975.
Swanson, Alfred B., 3,462,765.
Vanderlinde, William, 3,445,419.
Vukovich, John R., 3,427,638.
Weyer, Donald E., 3,422,855.
Woods, Carl M., 3,436,439.

Dow, Norris F., to General Electric Company. Triaxial fabric. 3,446,251, 5-27-69, Cl. 139-383.

Dow, Robert J.; Feldman, David; Lee, Samuel C.; Mitchell, Edward S., Jr.; and Wyndrum, Ralph W., Jr., to Bell Telephone Laboratories, Incorporated. η-Port monolithic thin film distributed resistance network. 3,460,026, 8-5-69, Cl. 323-74.

Dow, Robert L.: *See—*
Rice, George B.; and Dow, Robert L.,3,420,695.

Dowben, Robert M., to Northwestern University. Methods for treating muscular dystrophy with a 1- methyl-Δ^1-androsten-17β-ol-3-one and digitoxin. 3,446,895, 5-27-69, Cl. 424-182.

Dowbenko, Rostylaw, to PPG Industries, Inc.Bicyclo[3.3.0] octanones. 3,422,155, 1-14-69, Cl. 260-648.

Dowbenko, Rostyslaw: *See—*
Chang, Wen-Hsuan; and Dowbenko, Rostyslaw,3,448,017.

Dowbenko, Rostyslaw, to PPG Industries, Inc. Isomerization of maleates with alkyl chlorocarbonate. 3,475,483, 10-28-69, Cl. 260-485.

Dowbenko, Rostyslaw; and Christenson, Roger M., to PPG Industries, Inc. Unsaturated beta-hydroxalkyl carboxylate preparation. 3,431,294, 3-4-69, Cl. 260-486.

Dowd, John Mark, Jr.: *See—*
Foster, Walter Henry, Jr.; Dowd, John Mark, Jr.; and Coleman, Ralph Arthur,3,475,339.

Dowd, Walter W.: *See—*
Reinecke, Paul W.; Van Sipe, Ronald L.; Dowd, Walter W.; and Liske, Donald O.,3,430,419.

Dowdall, Lester A.; and Deege, Walter, to Transco Products, Inc. Waveguide power divider having tapered, pivotal switching member. 3,474,359, 10-21-69, Cl. 333-7.

Dowden, Clarence L., Jr.: *See—*
Green, William B., Jr.; Witte, Arnold C., Jr.; Pitman, Herbert J.; and Dowden, Clarence L., Jr.,3,475,337.
Greene, John H.; Hencke, William R.; Dowden, Clarence L., Jr.; and Pitman, Herbert J.,3,475,335.
Pitman, Herbert J.; and Dowden, Clarence L., Jr.,3,474,034.

Dowden, Fred, Jr. Readout device for taxicab meters. 3,430,854, 3-4-69, Cl. 235-30.

Dowden, Sanford R., to Otis Engineering Corporation. Pressure and mechanically operated valve. 3,467,185, 9-16-69, Cl. 166-147.

Dowell, Frederick Sidney, to Dunlop Rubber Company Limited. Arcuate disc brake. 3,447,641, 6-3-69, Cl. 188-73.

Dowen, James A., to Shelby Business Forms, Inc. Combined message and reply envelopes. 3,428,237, 2-18-69, Cl. 229-69.

Dower, Ethell J., to Warren Automatic Tool Company. Apparatus and method for automatically controlling fluid pressure in a well bore. 3,470,971, 10-7-69, Cl. 175-25.

Dower, Ethell J., to Warren Automatic Tool Company. Bottom-hole pressure regulation apparatus. 3,470,972, 10-7-69, Cl. 175-25.

Dower, Ethell J., to Warren Automatic Tool Company. Closure member and apparatus for controlling fluid flow through a conduit. 3,479,001, 11-18-69, Cl. 251-4.

Dowgiallo, Edward J., Jr. Constant power control of a power source. 3,487,291, 12-30-69, Cl. 323-15.

Dowler, Robert L.: *See—*
Johnston, Lawrence M., Jr.; and Dowler, Robert L.,3,470,763.

Dowley, Arthur: *See—*
Meadows, Frank William; and Dowley, Arthur,3,435,493.

Dowling, Edward Camp, to AMP Incorporated. Continuous selective readout for magnetic core systems. 3,426,334, 2-4-69, Cl. 340-174.

Dowling, Edward Camp, to AMP Incorporated. Binary bit counter. 3,482,221, 12-2-69, Cl. 340-174.

Dowling, Edward Camp; Carlisle, Raymond Melvin; and Fraunfelder, James Alexander, to AMP Incorporated. Signal switching circuit. 3,446,982, 5-27-69, Cl. 307-29.

Dowling, James W.: *See—*
Guida, Thomas J., 3,473,083.

Dowling, John, to English Electric Company Limited, The. Motorized truck resiliently supported on equalizing bars. 3,451,354, 6-24-69, Cl. 105-133.

Dowling, Seamus. Space form skeleton structures made of prefabricated tri-axial interlocking building elements having non-rigid force distributing connectors. 3,466,823, 9-16-69, Cl. 52-227.

Dowling Textile Manufacturing Company: *See—*
Tames, Daniel, 3,438,422.

Dowling, Thomas P.: *See—*
Kern, Forest L.; Schwoyer, William L.; and Dowling, Thomas P.,3,431,851.
Kern, Forrest L.; Schwoyer, William L.; and Dowling, Thomas P.,3,431,849.

Dowling, Thomas P., to Commercial Solvents Corporation. Packaged explosive. 3,472,166, 10-14-69, Cl. 102-24.

Downen, Jim L.: *See—*
Sutliff, Wayne N.; and Downen, Jim L.,3,472,326.
Sutliff, Wayne N.; Sutliff, Meryl W.; and Downen, Jim L.,3,485,297.

Downer, Darrell L.: *See—*
Jaffee, Robert D.; Mark, Irving L.; and Downer, Darrell L.,3,442,397.

Downer, David L. Travel tray. 3,473,680, 10-21-69, Cl. 214-450.

Downer, Robert B.: *See—*
Weinstein, James D.; Downer, Robert B.; Meddleycott, Clyde E.; and Meddleycott, William R.,3,456,270.

Downes, William A.: *See—*
Gross, Seymour; Downes, William A.; and Rakoff, Frank B.,3,469,821.

Downey, David E. Pipelaying toy truck. 3,421,252, 1-14-69, Cl. 46-40.

Downey, David F., to Electrolux Corporation. End closure for a disposable vacuum cleaner dust bag. 3,421,298, 1-14-69, Cl. 55-367.

Downey, David F., to Consolidated Foods Corporation, mesne. End closure for disposable vacuum cleaner dust bag. 3,432,998, 3-18-69, Cl. 55-367.

Downey, David F. End closure for disposable vacuum cleaner dust bag. 3,434,351, 3-25-69, Cl. 73-368.3

Downey, David F., to Electrolux Corporation. Current conducting rotatable airflow coupling for a vacuum cleaner. 3,470,521, 9-30-69, Cl. 339-8.

Downey, David F.; Le Baigue, Jacques L.; and Ohlson, Bengt E., to Consolidated Foods Corporation, mesne. End closure for a disposable vacuum cleaner dust bag. 3,432,997, 3-18-69, Cl. 55-367.

Downey, George T.: *See—*
Sample, William J.; and Downey, George T.,3,451,551.

Downey, George T., to Aero-Flow Dynamics, Inc. Combination magnetic bypass valve and indicator. 3,420,266, 1-7-69, Cl. 137-553.

Downey, George T.; and Sample, William J., to Aero-Flow Dynamics, Inc. Combination filter and surge resistant bypass valve. 3,442,384, 5-6-69, Cl. 210-90.

Downey, Holmes A., to Reliance Electric Company. Coupling with reinforced flexible element. 3,468,138, 9-23-69, Cl. 64-11.

Downey, Martin W.; and Jones, Lloyd K., to Sterling Faucet Company. Push-actuated drain valve. 3,428,295, 2-18-69, Cl. 251-263.

Downey, Rogers B., to Polaroid Corporation. Photographic apparatus. 3,455,222, 7-15-69, Cl. 95-13.

Downey, Rogers B.; and Cook, Gerald H., to Polaroid Corporation. Photographic apparatus. 3,421,423, 1-14-69, Cl. 95-13.

Downey, Rogers B.; and Silverman, Allyn M., to Polaroid Corporation. Camera apparatus. 3,437,023, 4-8-69, Cl. 95-13.

Downey, Rogers B.; and Silverman, Allyn M., to Polaroid Corporation. Camera apparatus. 3,437,024, 4-8-69, Cl. 95-13.

Downey, Rogers B.: *See—*
Cook, Gerald H.; and Downey, Rogers B.,3,446,131.

Downey, Wayne Allman, to Deere & Company. Belt tensioning device. 3,442,147, 5-6-69, Cl. 74-242.11

Downey, Wolcott M., to Avco Corporation. Percutaneous conduit and connector. 3,452,366, 7-1-69, Cl. 3-1.

Downhower, Francis H., Jr.: *See—*
Wagener, Paul W.; and Downhower, Francis H., Jr.,3,441,872.

Downie, George: *See—*
Loveland, Robert; and Downie, George,3,464,595.

Downie, Peter M., to Carborundum Company, The. Nozzle. 3,476,323, 11-4-69, Cl. 239-590.5

Downie, Robert R. Machine key adaptation. 3,420,556, 1-7-69, Cl. 287-52.05

Downie, Robert R. Machine key structure. 3,428,343, 2-18-69, Cl. 287-52.05

Downing, Arthur H.; and Janis, Peter, to Raytheon Company. Coaxial attenuator for traveling wave devices. 3,465,198, 9-2-69, Cl. 315-3.5

Downing, Brian York, to British Industrial Plastics Limited. Aqueous solutions of water-soluble alkyd resin and water-soluble amino resin having carboxylic groups. 3,444,114, 5-13-69, Cl. 260-21.

Downing, Brian York, to British Industrial Plastics Limited. Alkylated amino resin trans-etherified with hydroxy carboxylic acid. 3,464,946, 9-2-69, Cl. 260-29.4

Downing, Edward T., to Raytheon Company. Anode structure for microwave frequency oscillators. 3,444,429, 5-13-69, Cl. 315-39.75

Downing, Edward T.; and Plumridge, Robert F., to Raytheon Company. Turnable coaxial cavity magnetron. 3,435,284, 3-25-69, Cl. 315-39.61

Downing, Eric William; and Goddard, Brian Walter, to Lucas, Joseph, (Industries) Limited. Electrical speed control for an internal combustion engine. 3,460,521, 8-12-69, Cl. 123-102.

Downing, Harvey T.: *See—*
Horton, Donelson B.; and Downing, Harvey T.,3,451,252.

Downing, Hubert B.Child's clothes rack. 3,433,445, 3-18-69, Cl. 248-291.
Downing, James H.: *See—*
Harris, Smauel D.; and Downing, James H.,3,462,199.
Downing, John G. Foldable display stand. 3,464,569, 9-2-69, Cl. 211-135.
Downing, Parker W.: *See—*
Weisz, Herman S.; and Downing, Parker W.,3,447,888.
Downing, Randall W.; and Hass, Ronald J., to Bell Telephone Laboratories, Incorporated. Data processor utilizing combined order instructions. 3,430,202, 2-25-69, Cl. 340-172.5
Downing, Robert D.: *See—*
Boring, Kenneth L.; and Downing, Robert D.,3,479,483.
Downing, Robert D., to General Electric Company. Electron beam welding apparatus. 3,463,900, 8-26-69, Cl. 219-121.
Downing, Robert D., to General Electric Company. Electron beam welding apparatus. 3,466,420, 9-9-69, Cl. 219-121.
Downing, Ronald T. Tube joint having buckled locking means. 3,467,414, 9-16-69, Cl. 285-382.2
Downing, Wilbur H. Connector unit. 3,479,071, 11-18-69, Cl. 287-20.94
Downing, William D.; and Remond, Jean, to Heli-Coil Corporation. Feeding strips for fastener-accepting inserts and method. 3,464,542, 9-2-69, Cl. 206-56.
Downing, Willis Gess, Jr., to United States of America, Atomic Energy Commission. Controlled field light-probe electronic analog computer and function generator. 3,487,205, 12-30-69, Cl. 235-198.
Downs, Arthur; and Maclean, Clive, to United Kingdom Atomic Energy Authority. Welding thermocouples. 3,422,245, 1-14-69, Cl. 219-121.
Downs, Bernard W.: *See—*
Wenrich, Carl M.; and Downs, Bernard W.,3,456,090.
Downs, Edgar S.: *See—*
Brock, James A.; Hughes, Robert H.; and Downs, Edgar S.,3,462,133.
Downs, Harold H.; and Issa, Manuel A., to Square D Company. Wire connector. 3,426,319, 2-4-69, Cl. 339-242.
Downs, James C.: *See—*
Gasiel, Joseph F.; and Downs, James C.,3,446,396.
Downs, Neville L.: *See—*
Brounley, Richard W.; and Downs, Neville L.,3,458,834.
Downs, Robert E.; and Karbowski, John S., to Westinghouse Electric Corporation. Linear motion devices. 3,480,807, 11-25-69, Cl. 310-12.
Downs, Robert E.: *See—*
Thorel, John P.; Downs, Robert E.; and Sherwood, Donald G.,3,445,690.
Downs, Ronald O.; and Franz, Raymond A., to Monsanto Company. Dehydrocyclization of 2,5 dimethyl-hexene to para-xylene. 3,428,702, 2-18-69, Cl. 260-673.5
Downs, Ronald O.; and Franz, Raymond A., to Monsanto Company. Hydrocarbon conversion. 3,449,457, 6-10-69, Cl. 260-669.
Downs, Ronald O.; and Franz, Raymond A., to Monsanto Company. Isomerization of 2,4,4-trimethyl-2-pentene to 2, 5-dimethyl hexenes. 3,454,668, 7-8-69, Cl. 260-683.2
Downs, William T.: *See—*
Homier, Robert I.; Posh, Raymond C.; and Downs, William T.,3,471,198.
Downs, William T., to Lear Siegler, Inc., mesne. Switch assembly for use in oxygen environment. 3,451,020, 6-17-69, Cl. 335-206.
Downs, William T.; and Homier, Robert I., to Lear Siegler, Inc., mesne. Seat assembly. 3,427,073, 2-11-69, Cl. 297-361.
Dowsett, Brian O.; and Appleton, Anthony D., to International Research & Development Company Limited. Homopolar dynamoelectric machine. 3,443,134, 5-6-69, Cl. 310-178.
Dowsing, John; Briggs, Peter Richard Ashworth; and Sturdy, Clifford, to Davy and United Engineering Company Limited. Rolling mill having a controlled hydraulic prestress range and other gap adjusting means for initial operation and for adjustment to said range. 3,464,245, 9-2-69, Cl. 72-101.6
Dowsing, Reginald M.: *See—*
Danielsen, Berne E.; Dowsing, Reginald M.; Kennedy, Melvin R.; and Ryan, John W.,3,482,842.
Dowson & Dobson Limited: *See—*
Lyell, Hugh R., 3,443,581.
Dowty Fuel Systems Limited: *See—*
Rimmer, Ronald, 3,470,894.
Tyler, Stanley R., 3,486,458.
Dowty Hydraulic Units Limited: *See—*
Flint, John C. E., 3,433,453.
Hodges, John E.; Joyner, Philip G.; and Toogood, Graham J., 3,447,472.
Dowty Meco Limited: *See—*
Dawson, Gordon Bertram, 3,455,432.
Paul, Thomas Campbell, 3,442,554.
Dowty Mining Equipment Limited: *See—*
Pawling, Frank, 3,425,450.
Dowty Rotol Limited: *See—*
Chilman, John Alfred, 3,459,267.
Davies, Stuart Duncan; and Chilman, John Alfred, 3,420,311.
Davies, Stuart Duncan; and Chilman, John Alfred, 3,468,473.
Davies, Stuart Duncan; and Chilman, John Alfred, 3,476,486.
Gullick, Denzil S., 3,469,853.
Walker, Allen C., 3,467,213.
Dowty Seals Limited: *See—*
Bastow, Frank, 3,473,814.
Hillier, Edward F. H. B., 3,477,867.
Dowty Technical Developments Limited: *See—*
Andrews, Thomas D. H., 3,457,956.
Bick, David E., 3,425,498.
Flint, John C. E., 3,451,426.
Doxey, Brian C.; and Miller, Robert E., to British Oxygen Company Limited, The. Self-laying endless tracks and transporters fitted therewith. 3,439,425, 4-22-69, Cl. 33-23.
Doxzon, Melvin R.: *See—*
Klapproth, Christian P., Jr.; and Doxzon, Melvin R.,3,467,411.
Doyle, Barrett, to Honeywell Inc. Laser angular rate sensor. 3,468,608, 9-23-69, Cl. 356-106.
Doyle, Carroll F.; and Becker, David L., to Grace, W. R., & Co. Fluid energy mill. 3,425,638, 2-4-69, Cl. 241-39.
Doyle, Collin M.: *See—*
Doyle, Wladzia G. Podielniak; and Doyle, Collin M.,3,445,060.
Doyle, Wladzia G. Podbielniak; and Doyle, Collin Morley,3,438,572.
Doyle, Doris M., to Boeing Company, The. Removal of metals from oleaginous materials and analysis of the metals. 3,438,735, 4-15-69, Cl. 23-230.
Doyle, Edward A.: *See—*
Stevens, Donald E.; and Doyle, Edward A.,3,432,937.
Doyle, Edward G., to General Motors Corporation. Vehicle rear view mirror assembly. 3,425,657, 2-4-69, Cl. 248-481.
Doyle, Frank Peter; and Nayler, John Herbert Charles, to Beecham Group Limited. Furyl - and thienyl-penicillins and salts thereof. 3,470,151, 9-30-69, Cl. 260-239.1
Doyle, George A.: *See—*
Bell, Harold B.; and Doyle, George A.,3,444,440.
Doyle, George W.: *See—*
Bellinger, Arthur A.; and Doyle, George W.,3,439,432.
Doyle, George W.; and Johnson, Robert A., to National Lead Company. Dispensing device for metering the flow of particulate materials. 3,444,892, 5-20-69, Cl. 137-624.15
Doyle, James H., 1/2 to Ballentine, Earle W. Artificial sense organ. 3,449,768, 6-17-69, Cl. 3-1.
Doyle, John R.: *See—*
Brinkley, Earl; and Doyle, John R.,3,426,812.
Doyle, Joseph E.; and Seiss, William F., to United States Steel Corporation. System for periodically reversing large direct currents. 3,471,768, 10-7-69, Cl. 321-47.
Doyle, Marie J., executrix for the Estate of: *See—*
Haug, Anton J., 3,427,690.
Doyle, Peter; Swain, Geoffrey; and Wylie, Alastair Graham, to Imperial Chemical Industries Limited. Thiazolidine derivative and process therefor. 3,463,784, 8-26-69, Cl. 260-306.7
Doyle, Peter; and Wylie, Alastair Graham, to Imperial Chemical Industries Limited. Process for making dl-2,3,5,6-tetrahydro-6- phenylimidazo[2,1-β]thiazole. 3,478,047, 11-11-69, Cl. 260-306.7
Doyle, Richard H.: *See—*
Gallee, George J.; Obergfell, Allen R.; and Doyle, Richard H.,3,438,487.
Doyle, Richard M., to Fastener Corporation. Electrically operated reciprocating tool. 3,434,026, 3-18-69, Cl. 318-125.
Doyle, Robert L.; and Swezy, Montgomery C., to Western Progress, Inc. Vehicle mounted blower assembly with hose and support bracket. 3,467,301, 9-16-69, Cl. 230-235.
Doyle, Robert L.: *See—*
Swezy, Montgomery C.; and Doyle, Robert L.,3,458,212.
Doyle, Robert P., to Clemson Industries, Inc. Tetrahedral packages in a container. 3,420,366, 1-7-69, Cl. 206-65.
Doyle, Robert Refford Sant. Thermally insulated piping system. 3,478,783, 11-18-69, Cl. 138-103.
Doyle, William C., Jr., to Tenneco Chemicals, Inc. Treatment of tall oil fatty acids. 3,433,815, 3-18-69, Cl. 260-419.
Doyle, William C., Jr.: *See—*
Royals, Edwin E.; and Doyle, William C., Jr.,3,453,251.
Doyle, William Carter, to Gulf Research & Development Company. Bispyridinium compounds as herbicides. 3,458,305, 7-29-69, Cl. 71-92.
Doyle, William Francis, to Stewarts and Lloyds Limited. Weld backing member and method of forming welded joints in metallic members or between metallic members. 3,432,915, 3-18-69, Cl. 29-491.
Doyle, William J., to Emhart Corporation. Latch bolt mechanism. 3,441,269, 4-29-69, Cl. 292-165.
Doyle, William P.; Patterson, John A.; and Peropoulos, Peter C., to Texaco Inc. Production of secondary alkyl primary amines from normal paraffins. 3,470,252, 9-30-69, Cl. 260-583.
Doyle, William P.: *See—*
Patterson, John A.; Menapace, Lawrence W.; and Doyle, William P.,3,470,250.

Doyle, Wladzia G. Podbielniak; and Doyle, Collin Morley. Adjustable dual phase liquid feed means for centrifugal countercurrent exchange device. 3,438,572, 4-15-69, Cl. 233-15.
Doyle, Wladzia G. Podielniak; and Doyle, Collin M. Articulated liquid feed or discharge column for countercurrent exchange devices. 3,445,060, 5-20-69, Cl. 233-15.
Doyotte, Claude Charles: *See*—
Duthion, Louis; and Doyotte, Claude Charles,3,463,264.
Dozier, Herma Wiedle. Undergarment. 3,449,762, 6-17-69, Cl. 2-73.
Dozier, James Ronald; and Johnson, Glenn D., to Shell Oil Company. Connection of underwater flowlines. 3,442,540, 5-6-69, Cl. 287-76.
D & P Minerals, Inc.: *See*—
Cahill, John A., 3,487,427.
Drabble, John R.; and Palmer, Anthony William, to National Research Development Corporation. Method of growing a crystal or crystalline layer by means of a direct current arc discharge. 3,442,719, 5-6-69, Cl. 148-1.6
Draber, Wilfried: *See*—
Buchel, Karl H.; Draber, Wilfried; and Korte, Friedrich W.A.G.K.,3,423,420.
Drabert Sohne: *See*—
Riedel, Herbert; and Riedel, Dieter, 3,440,841.
Drabik, Josef, to Kromschroder, G., Aktiengesellschaft. Concentric pipe coupling having spring biased sealing means. 3,441,295, 4-29-69, Cl. 285-133.
Drabik, Walter, to General Motors Corporation. Traction motor axle bearing dust guard. 3,433,541, 3-18-69, Cl. 308-36.1
Drabik, Walter, to General Motors Corporation. Dynamoelectric machine coil spacer and support. 3,445,706, 5-20-69, Cl. 310-270.
Drabik, Walter, to General Motors Corporation. Brush holder assembly for traction motors. 3,471,732, 10-7-69, Cl. 310-239.
Drabik, Walter: *See*—
Thiessen, Elmer E.; Drabik, Walter; and Stigler, Willard R.,3,449,609.
Dracka, Oldrich: *See*—
Mackrle, Svatopluk; Mackrle, Vladimir; and Dracka, Oldrich,3,429,442.
Drackett Company, The: *See*—
Baumgartner, Robert L., 3,483,583.
Cashman, Donald Edward; and Remler, Harry Earl, 3,449,266.
Stonebraker, Melvin E.; and Wise, Samuel P., 3,463,735.
Drader, Clarence H. Nesting and stacking carrier construction. 3,458,082, 7-29-69, Cl. 220-97.
Draeger, Alfred A.: *See*—
Beyers, Stephen J.; Draeger, Alfred A.; and Godwin, Ernest,3,486,744.
Draeger, Jorg A.; and Klein, Friedrich J., to Moller, J. D., Optische Werke G.m.b.H. Ocular instruments. 3,446,061, 5-27-69, Cl. 73-80.
Drafto Corporation: *See*—
Kraeling, John B., 3,450,243.
Dragan, William B. Dental gun. 3,436,828, 4-8-69, Cl. 32-17.
Drage, James, John; and Fripp, Alan. Plural registers in a calculating machine. 3,465,296, 9-2-69, Cl. 340-172.5
Drager, Kurt; and Ackermann, Othmar, to Behringwerke Aktiengesellschaft. Vaccine for immunization of dogs and foxes against distemper, hepatitis contagiosa and leptospirosis and process for preparing it. 3,470,294, 9-30-69, Cl. 424-89.
Drager, Otto H.: *See*—
Koch, Heinrich, 3,456,643.
Drager, Otto H.: *See*—
Koch, Heinrich, 3,456,643.
Oehmig, Heinz, 3,443,564.
Wachter, Karl-August; and Eckstein, Wolfgang, 3,446,600.
Warncke, Ernst; and Haas, Hans, 3,457,953.
Warncke, Ernst; and Haas, Hans, 3,483,887.
Drager, Otto Heinrich: *See*—
Freytag, Klaus, 3,426,794.
Haupt, Josef, 3,446,243.
Schreiber, Peter, 3,441,041.
van der Smissen, Carl Ernst, 3,433,653.
Dragich, Nicholas. Swimming aid. 3,426,722, 2-11-69, Cl. 115-26.
Drago, Leo, to Ilma Industria Lavorazioni Metalli Antiacidi S.A.S., and Geigy, J. R., A.G. Apparatus and process for continuously steaming textile fiber materials. 3,457,029, 7-22-69, Cl. 8-149.3
Drago, Leo, to Ilma-Industria Lavorazioni Metalli Antiacidi S.A.S., and Geigy, J. R., A.G. Apparatus for padding and other subsequent treatment of loose stock textile fibers. 3,466,899, 9-16-69, Cl. 68-5.
Drago, Vittorio, to Superga S.p.A. Shoe insole. 3,426,455, 2-11-69, Cl. 36-3.
Dragoco Gerberding & Co. G.m.b.H.: *See*—
Huth, Heinz, 3,424,592.
Dragon, Thomas J.: *See*—
Schira, John J.; Sadler, William R.; and Dragon, Thomas J.,3,435,424.
Dragoon, Robert; and Kraske, Karl V., to Oxford Paper Company. Vacuum metallized paper. 3,463,659, 8-26-69, Cl. 117-71.
Drain, James Joseph, to American Cyanamid Company. Methods for promoting growth and controlling disease in reminant animals with a tetracycline antibiotic and sulfamethazine. 3,472,934, 10-14-69, Cl. 424-227.
Drake & Townsend, Incorporated: *See*—
Wastie, Arthur E., 3,459,519.
Drake, Cyril Francis; and Gayford, Michael Lawrence, to International Standard Electric Corporation. Capacitor microphone employing a field effect semiconductor. 3,445,596, 5-20-69, Cl. 179-1.
Drake, Cyril Francis; Scanlan, Ian Francis; and Alexander, John Henry, to International Standard Electric Corporation. Glassy bistable electrical switching and memory device. 3,440,588, 4-22-69, Cl. 338-20.
Drake, Cyril Francis; Simpson, Walter Eric; and Robinson, John Sydney, to International Standard Electric Corporation. Selective cutting of a body by air abrasion. 3,444,656, 5-20-69, Cl. 51-312.
Drake, Edwin George; and Frechette, Marius, to Wisconsin Alumni Research Foundation. Method and apparatus for treating particulate material in a fluidized bed. 3,437,073, 4-8-69, Cl. 118-24.
Drake, George L., Jr.: *See*—
Beninate, John V.; Boylston, Eileen K.; and Drake, George L., Jr.,3,480,381.
Chance, Leon H.; Leonard, Ethel K.; and Drake, George L., Jr.,3,484,184.
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A.,3,420,700.
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A.,3,420,701.
Drake, Herbert J., to Bethlehem Steel Corporation. Rolling oils. 3,429,815, 2-25-69, Cl. 252-49.5
Drake, James C., 20% to Mitchell, Wilbur A. E. Portable road mark paint drying machines. 3,435,818, 4-1-69, Cl. 126-271.2
Drake, King B. Telephonic equipment rack. 3,468,429, 9-23-69, Cl. 211-169.
Drake, Oscar A., to Sylvania Electric Products, Inc. Process of forming a matrix structure. 3,427,644, 2-11-69, Cl. 51-319.
Drake, Oscar Abram: *See*—
Brenner, Kurt H., Jr.; and Drake, Oscar Abram,3,439,216.
Drake, Robert W.: *See*—
Vadas, Leslie; and Drake, Robert W.,3,452,651.
Vadas, Leslie; and Drake, Robert W.,3,456,419.
Drake, Ronald, to Shaw, Joshya, & Sons Limited. Steering means for lift trucks. 3,463,506, 8-26-69, Cl. 280-91.
Drake, William O.; and Mills, Kenneth R., to Phillips Petroleum Company. Stable high melt flow polyropylene containing triazine compound and fatty acid salt. 3,484,402, 12-16-69, Cl. 260-23.
Drakenfeld, B. F., & Company: *See*—
Kosiorek, Raymond; and Loughman, John I., 3,463,647.
Drakulich, Duke. Football practice device. 3,443,810, 5-13-69, Cl. 273-55.
Drakulich, Duke. Exercising device having a normally horizontal lever movable upward against spring resistance. 3,471,146, 10-7-69, Cl. 272-83.
Draney, Jane Carolee: *See*—
Draney, John Joseph, Jr.,3,450,817.
Draney, John Joseph, Jr., deceased0 (by Draney, Jane Carolee; executrix), to International Nickel Company, Inc., The. Use of nickel morpholine dithiocarbamate as a nematocide. 3,450,817, 6-17-69, Cl. 424-245.
Dransfield, Clifford D.: *See*—
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R.,3,421,730.
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R.,3,423,711.
Dransfield, Philip Brook; and Olleveant, Allan William, to Imperial Chemical Industries Limited. Process of manufacturing bipyridyls with improved diluents. 3,467,664, 9-16-69, Cl. 260-296.
Draper, Albert E., to Korobuk, S., Limited. Sound reproducing apparatus. 3,447,808, 6-3-69, Cl. 274-10.
Draper, Albert E., to Korobuk, S., Limited. Automatic sound reproducing apparatus. 3,468,547, 9-23-69, Cl. 274-10.
Draper, Cosby A., Jr.; and Gallion, Walter L., to General Electric Company. Hybrid termination switch responsive to ringing signal. 3,428,755, 2-18-69, Cl. 179-84.
Draper, Homer L.; Bennett, Richard J.; and Gagle, Duane W., to Phillips Petroleum Company. Laminates of a polyolefin fabric and/or film and asphaltic material. 3,474,625, 10-28-69, Cl. 61-1.
Draper, James E.: *See*—
Reid, Francis R.; Draper, James E.; and Jones, Selwyn,3,458,970.
Draper, James S.: *See*—
Hill, Jacque A. F.; and Draper, James S.,3,432,208.
Draper, Willie E.: *See*—
Coney, Charles H.; and Draper, Willie E.,3,423,225.
Draplin, Thomas E.; and Trudeau, Edgar G., to Ford Motor Company. Rearview mirror control assembly. 3,456,524, 7-22-69, Cl. 74-501.
Dratz, Richard A.; and Nelson, Ralph A., to Thilmany Pulp and Paper Company. Polyolefin coating composition. 3,450,557, 6-17-69, Cl. 117-76.

Draudt, Donald A.; and Draudt, Herbert T. Method of molding thermoplastics. 3,446,889, 5-27-69, Cl. 264-329.
Draudt, Herbert T.: *See—*
Draudt, Donald A.; and Draudt, Herbert T.,3,446,889.
Draugelis, Bronius M.: *See—*
Curriston, Loren E.; and Draugelis, Bronius M.,3,463,986.
Draugelis, V[illegible]evutis C.; and Redding, Thomas P., to Xerox Corporation [illegible]eet holder. 3,458,187, 7-29-69, Cl. 271-88.
Draves, [illegible]ehi A. Vehicle overload spring with cam-type adjusting means. 3,420,544, 1-7-69, Cl. 280-124.
Draves, Lehi A. Adjustable auxiliary vehicle spring housing. 3,484,091, 12-16-69, Cl. 267-54.
Draving, Walter J., to Micro-Miniature Parts Corporation. Method of pointing wire-like elements. 3,427,764, 2-18-69, Cl. 51-324.
Draving, Walter J., to Micro-Miniature Parts Corporation. Welding method. 3,487,188, 12-30-69, Cl. 219-57.
Draving, Walter J.; and Nerz, Joseph E., to Micro-Miniature Parts Corporation. Multi-feed wire package. 3,450,359, 6-17-69, Cl. 242-54.
Dravnieks, Andrew; and Salkowski, Martin J., to United States of America, Army and/or Federal Aviation Administration. Automatic bomb detector. 3,430,482, 3-4-69, Cl. 73-23.1
Dravo Corporation: *See—*
Briggs, Aubrey C., 3,420,388.
MacCabe, Bernard S., 3,447,688.
McGuire, Earl J., 3,435,619.
Mobley, Loreley Spencer, 3,477,705.
Robinson, Melville W., Jr.; Steelman, Clarence, Jr.; and Perkins, Enoch, Jr., 3,445,284.
Vinaty, Joseph, 3,486,880.
Drayer, Dennis E.: *See—*
Patton, James W.; Argabright, Perry A.; Drayer, Dennis E.; and Fox, Dale B.,3,471,555.
Drayer, William L., to General Motors Corporation. Metering means. 3,477,699, 11-11-69, Cl. 261-36.
Drazin, George E., deceased (by Drazin, Robert M., administrator); and Los Angeles, Calif. Pick-proof locks. 3,420,077, 1-7-69, Cl. 70-276.
Drazkowski, David V.: *See—*
Taylor, William P.; and Drazkowski, David V.,3,460,564.
Dreazy, Francis E.; and Kreeger, Vinton L., Jr., to Evans Products Company. Panel embossing and printing process. 3,486,919, 12-30-69, Cl. 117-8.
Drechsler, Erich F.; and Martin, John L., to Kearney & Trecker Corporation. Machine tool variable power transmission. 3,458,881, 8-5-69, Cl. 10-139.
Drechsler, Leon D.; and Zandell, Fred S. Article-handling apparatus. 3,429,403, 2-25-69, Cl. 186-1.
Dreckmann, Hubert: *See—*
Eller, Harold E.; and Dreckmann, Hubert,3,471,776.
Drees, Jan M., to Bell Aerospace Corporation. Autorotative recovery system. 3,436,040, 4-1-69, Cl. 244-138.
Drees, Jan M.: *See—*
Sawicki, Henry E.; and Drees, Jan M.,3,451,484.
Spivey, Richard F.; and Drees, Jan M.,3,467,197.
Drees, John F.; and Kunath, Elmer M., to Cutler-Hammer, Inc. Interlocking mechanism for electrical controllers. 3,428,764, 2-18-69, Cl. 200-50.
Drees, Joseph M., to Sylvania Electric Products, Inc. Electron gun with expanded insulator posts. 3,484,641, 12-16-69, Cl. 313-251.
Drees, Joseph M., to United States of America, Army, mesne. Non-intercepting grid structure for an electron tube. 3,484,645, 12-16-69, Cl. 313-348.
Dreher, Dieter; and Dreher, Manfrid, to Dreher, Manfrid, Dr. Ing., KG. Tumbling apparatus. 3,429,559, 2-25-69, Cl. 259-3.
Dreher, Donald F. Coating apparatus. 3,461,837, 8-19-69, Cl. 118-50.
Dreher, Donald F. Web coating apparatus. 3,470,848, 10-7-69, Cl. 118-410.
Dreher, Donald F. Multiple coating apparatus. 3,474,757, 10-28-69, Cl. 118-411.
Dreher, Elmer. Filter assembly. 3,430,771, 3-4-69, Cl. 210-323.
Dreher, Hans C., to General Cigar Co., Inc. Method for reinforcing the head end of a cigar. 3,468,315, 9-23-69, Cl. 131-20.
Dreher, John L., to Chevron Research Company. Perfluoropolyether greases thickened with metal-free phthalocyanine. 3,432,432, 3-11-69, Cl. 252-25.
Dreher, Manfrid, Dr. Ing., KG.: *See—*
Dreher, Dieter; and Dreher, Manfrid, 3,429,559.
Dreher, Manfrid: *See—*
Dreher, Dieter; and Dreher, Manfrid,3,429,559.
Drehman, Lewis E., to Phillips Petroleum Company. Production of high purity cyclohexane. 3,461,182, 8-12-69, Cl. 260-667.
Drehman, Lewis E.: *See—*
Hepp, Harold J.; and Drehman, Lewis E.,3,425,955.
Dreibholz & Company Limited: *See—*
Wooding, Maurice; and Dreibholz, Albert Erich, Jr., 3,447,486.
Dreibholz, Albert Erich, Jr.: *See—*
Wooding, Maurice; and Dreibholz, Albert Erich, Jr.,3,447,486.
Dreibholz, Egon, to Frobana K. G. Shoe polishing machine. 3,457,578, 7-29-69, Cl. 15-31.
Dreiding, Andre S., to BP Chemicals (U.K.) Limited. Yieldable clutch. 3,424,287, 1-28-69, Cl. 192-55.
Dreis & Krump Manufacturing Company: *See—*
Goldberg, Charles K., 3,448,828.
Dreisin, Alexander, to Allis-Chalmers Manufacturing Company. Two-piece piston with cooling provisions. 3,424,138, 1-28-69, Cl. 123-41.38
Dreisin, Alexander, to Allis-Chalmers Manufacturing Company. Fuel injection system. 3,465,737, 9-9-69, Cl. 123-139.
Dreisin, Alexander, to Allis-Chalmers Manufacturing Company. Fuel injection unit. 3,486,493, 12-30-69, Cl. 123-139.
Dreisin, Alexander, to Allis-Chalmers Manufacturing Company. Fuel injector. 3,486,494, 12-30-69, Cl. 123-139.
Dreisin, Alexander, to Allis-Chalmers Manufacturing Company. Fuel injector. 3,486,696, 12-30-69, Cl. 239-89.
Dreiske, Erwin J.; and Saudinattis, Emanuel, to Zenith Radio Corporation. Protection circuit for horizontal output transistor. 3,434,005, 3-18-69, Cl. 315-27.
Drenkel, Maurice E. Overhead brick laying apparatus. 3,466,883, 9-16-69, Cl. 61-84.
Drenkelfort, Hans; and Thieme, Siegfried, to Electroacustic G.m.b.H. Contrast control circuit for the indication provided by underwater sound apparatus. 3,440,598, 4-22-69, Cl. 340-3.
Drennan, James G., to Owens-Illinois, Inc. Apparatus for handling beverage bottles. 3,433,523, 3-18-69, Cl. 294-87.2
Drennen, Lillian G. Respiratory vest for emphysema patients. 3,481,327, 12-2-69, Cl. 128-30.2
Drennen, Ralph B., Jr. Water sport device. 3,435,471, 4-1-69, Cl. 9-310.
Drenning, John W., to Koppers Company, Inc. Automatic precipitator voltage control. 3,443,361, 5-13-69, Cl. 55-105.
Drenning, John W.; and Thomas, John B., to Koppers Company, Inc. Precipitator voltage control. 3,443,358, 5-13-69, Cl. 55-2.
Dreps, James R., to Owens-Illinois, Inc. Molding apparatus. 3,481,002, 12-2-69, Cl. 18-42.
Drescher & Kiefer, and: *See—*
Reitzel, Georg, 3,429,604.
Drescher, George William: *See—*
Webber, Clarence Eugene; and Drescher, George William,3,421,571.
Drescher, Hans-Peter; and Hoever, Paul, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Gallery driving machine. 3,428,363, 2-18-69, Cl. 299-57.
Dresher, William H.: *See—*
Woolery, Robert G.; and Dresher, William H.,3,421,975.
Dressel, Max C.: *See—*
Bailey, Victoria A.; and Dressel, Max C.,3,426,366.
Dresser Industries, Inc.: *See—*
Brackin, Wayne L., 3,434,696.
Brinkerhoff, George E., 3,463,466.
Buchholz, Russell A., 3,463,475.
Buckner, Guy O., 3,426,303.
Buell, Robert O., 3,479,007.
Burrows, Lewis M., 3,434,500.
Burrows, Lewis M., 3,458,172.
Bysarovich, Joseph C., 3,444,730.
Campbell, William W.; and Leatham, Earl, 3,429,664.
Cobaugh, George D.; Smoot, Thomas William; and Cobaugh, George D., 3,449,084.
Cohoon, James D., 3,445,859.
Cope, Geoffrey W., 3,438,511.
Cope, Geoffrey W., 3,481,491.
Cope, Geoffrey W., 3,484,000.
Cope, Gerald R.; Smoot, Thomas W.; and Renkey, Albert L., 3,429,486.
Criss, George H., 3,430,940.
Criss, George H., 3,436,238.
Culver, Richard B., 3,486,380.
Davies, Ben; and Carini, George F., 3,449,138.
Davies, Ben; and Carini, George F., 3,479,194.
DelVecchio, Leonard Patrick, Jr.; and Levine, Walter E., 3,482,196.
Dunton, John T., 3,439,938.
Dunton, John T., 3,475,978.
Dyer, Norman D.; and Van Winkle, Roy L., 3,446,284.
Dyer, Norman D.; and French, Burton W., 3,483,933.
Einstein, Edward; and Nell, David J., 3,483,280.
Engle, Allen W., 3,467,875.
Fanning, Fred H., Jr.; and Ruh, Edwin, 3,438,616.
Fenske, Douglas H., 3,424,308.
Fenske, Douglas H., and; and McMurray, Lynn L., 3,425,548.
Ferrill, Homer E., 3,439,702.
Geiselman, Donald L., 3,420,500.
Geiselman, Donald L., 3,471,120.
Geiselman, Donald L., 3,471,121.
Halterman, James W.; and Hoke, Howard L., 3,470,916.
Hansen, Kenneth W.; and Taylor, William C., 3,448,703.
Hauth, Charles R.; and Sheatsley, Larry L., 3,436,064.

Henry, George R.; and Lewis, Thomas W., II, 3,432,315.
Henry, George R.; and Scott, Robert K., 3,449,478.
Heske, William A., 3,424,008.
Hoke, Howard L.; and Halterman, James W., 3,466,069.
Hudson, Lester S.; and Ott, Eugene G., 3,461,983.
Ingham, Robert J.; and Bissell, Robert D., 3,434,330.
Kilgore, Marion D., 3,420,304.
Kilgore, Marion D.; and Pumpelly, Robert C., 3,434,538.
Kirk, Joseph M., Jr., 3,463,461.
Kish, George D., 3,429,587.
Kunderman, Fred K., 3,472,566.
Kunderman, Fred K., 3,476,485.
Kunderman, Fred K., 3,478,955.
Lelak, John W., 3,453,787.
Lichte, Carl L., 3,449,024.
Lintelman, Arthur H.; Le Bus, Jake H.; and Norman, James Lee, Jr., 3,454,870.
McCreight, Donald O.; Miller, Eldon D.; and Pavlica, Stanley R., 3,463,650.
Napora, Nicholas, 3,422,857.
Nelson, Dana Walker, 3,424,348.
Paterson, Robert N., 3,472,537.
Pavlica, Stanley R.; and Wishon, Berhl E., 3,421,917.
Pfefferle, George H., 3,439,953.
Porter, Forrest V., 3,465,356.
Rastrelli, Joel E., 3,425,804.
Reardon, Daniel E.; Wallace, Richard W.; and Beals, Raymond S., 3,438,615.
Renkey, Albert L.; and Troell, Peter T., 3,427,390.
Renkey, Albert L., 3,429,975.
Renkey, Albert L., 3,438,620.
Renkey, Albert Lajos, 3,448,971.
Rolon, Arnaldo, 3,441,949.
Ruoff, Gordon L., 3,427,802.
Schneider, Richard R., 3,425,674.
Silvern, David H., 3,426,964.
Stephens, Roger C., 3,431,693.
Swift, Gilbert; Carpenter, Alton D.; and Smith, David M., 3,427,877.
Swift, Gilbert, 3,459,038.
Swift, Gilbert, 3,481,183.
Tate, Carl A., 3,448,719.
Thompson, Clyde L., 3,463,648.
Tucker, Andrew J.; Kilgore, Marion D.; Crow, Morgan L.; and Simpson, Harry E., 3,460,616.
Van Houtte, James J.; and Elliott, Walter C., 3,451,483.
Venghiattis, Alexis A., 3,461,964.
Wallace, Richard W., 3,436,534.
Weaver, Ernest P., 3,453,139.
Weaver, Ernest P., 3,453,140.
Wilson, Homer M.; and De La Torre, Leroy C., 3,431,488.
Wilson, Homer M.; and Delatorre, Leroy C., 3,465,239.
Yoke, Michael P.; Montesi, Robert P.; and Paterson, Robert N., 3,434,744.
Youmans, Arthur H., 3,426,203.
Youmans, Arthur H., 3,437,169.
Youmans, Arthur H., 3,441,095.
Youmans, Arthur H., 3,465,151.
Youmans, Arthur H., 3,487,211.
Youmans, Arthur H.; and Hopkinson, Eric C., 3,487,294.
Zrimsek, Arthur H.; and Vingas, George J., 3,431,123.

Dresser Systems, Inc.: *See*—
Davison, Thomas M., 3,441,867.
Reynal, Thomas J.; and Blocher, Thomas J., 3,462,758.

Dresser, Thorpe; and Ohlswager, Stanley, to Sinclair Research, Inc.Separation of p-xylene from A C_8 aromatic hydrocarbon mixture by crystallization. 3,462,508, 8-19-69, Cl. 260-674.

Dresser, Thorpe; Ohlswager, Stanley; and Edison, Robert, to Sinclair Research, Inc.Separation of p-xylene from A C_8 aromatic hydrocarbon mixture by crystallization. 3,462,509, 8-19-69, Cl. 260-674.

Dresser Ubdystrueam Ubc: *See*—
Hopkinson, Eric C.; and Youmans, Arthur H., 3,439,165.
Youmans, Arthur H.; and Hopkinson, Eric C., 3,439,166.

Dressler, Hans; and Reabe, Kenneth G., to Koppers Company, Inc.Fluoroescent lower alkoxy substituted-α- phenyl sulfonyl cinnamonitriles. 3,452,075, 6-24-69, Cl. 260-465.

Dressler, Manfred: *See*—
Muller, Richard; Dathe, Christian; and Dressler, Manfred,3,449,394.

Dressler, Russell G. Evaporation retardants based on blends of alcohols containing odd and even numbers of carbon atoms and method of use. 3,450,488, 6-17-69, Cl. 21-60.5

Dreux-Boucard, Huguette, born Lemaire. Pair of rockably mounted foot trays. 3,471,144, 10-7-69, Cl. 272-57.

Drever Company: *See*—
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd, 3,420,083.
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd, 3,423,254.

Drever, James Ross; Zimmerman, Philip D.; and Brink, Allan B., to Amsted Industries Incorporated. Method for making ceramic articles. 3,476,847, 11-4-69, Cl. 264-102.

Drew Chemical Corporation: *See*—
Babayan, Vigen K.; and Barsky, George, 3,450,819.
Bernholz, William F.; and Cox, Thomas C., 3,464,922.

Drew, Eugene Hodson: *See*—
Moldovan, Michael T.; Drew, Eugene Hodson, deceased; and Robinson, Sherwood Drew; administrators,3,430,559.

Drew, Howard F., to Procter & Gamble Company, The. Hydroxyalkylamine oxide. 3,441,612, 4-29-69, Cl. 260-584.

Drew, Howard F., to Procter & Gamble Company, The. Detergent containing hydroxy alkyl amine oxide. 3,450,637, 6-17-69, Cl. 252-137.

Drew, Howard F.; and Hall, Robert E., to Procter & Gamble Company, The. Detergent containing alkoxy hydroxypropylamine oxide. 3,441,508, 4-29-69, Cl. 252-137.

Drew, Howard F.; and Hall, Robert E., said Drew assor to Procter & Gamble Company, The. Hydroxyalkylamine oxide detergent compounds. 3,441,611, 4-29-69, Cl. 260-584.

Drew, John W.: *See*—
Rosen, William E.; and Drew, John W.,3,468,900.

Drew, Laurance C.; and King, Harold F., to Radio Corporation of America. Broad band high gain video amplifier. 3,421,101, 1-7-69, Cl. 330-20.

Drewe, John, to Globampoule A.G. Hypodermic syringe with lockable needle holder. 3,468,309, 9-23-69, Cl. 128-216.

Drewe, John, to Britampoula A.G. Syringe ampoules. 3,473,524, 10-21-69, Cl. 128-2.

Drewitz, Julius: *See*—
Gotz, Hans; and Drewitz, Julius,3,441,059.

Drewry, Montrose K. Art of heating air for gas turbine use. 3,465,517, 9-9-69, Cl. 60-39.06

Drexelius, Victor W.; Lake, Edgar R.; and Schimmel, Morry L., to McDonnell Douglas Corporation. Explosive severance means. 3,486,410, 12-30-69, Cl. 89-1.

Drexler, Erich. Shoe with air cushion sole and method for manufacturing the shoe. 3,447,251, 6-3-69, Cl. 36-14.

Drexler, John J.: *See*—
Hallene, Alan M.; Holuba, Henry J.; and Drexler, John J.,3,450,232.

Drexler, Karl F., to General Electric Company. Compound excitation system. 3,479,543, 11-18-69, Cl. 310-162.

Drexler, Raymon S. Flag holder. 3,477,161, 11-11-69, Cl. 40-218.

Drexler, Roger A., to Eastman Kodak Company. Single magnetic brush apparatus for development of electrostatic images. 3,457,900, 7-29-69, Cl. 118-637.

Dreyer, Charles W.: *See*—
Bramick, John O.; and Dreyer, Charles W.,3,464,037.

Dreyer, Floyd H.: *See*—
Huff, Joseph H., 3,451,382.

Dreyer, Heinz, to Amazonen-Werke H. Dreyer. Agitator for centrifugal spreaders. 3,432,150, 3-11-69, Cl. 259-106.

Dreyer, Heinz; and Herbeck, Ernst, to Amazonen-Werke H. Dreyer. Centrifugal spreader apparatus. 3,425,636, 2-4-69, Cl. 239-665.

Dreyer, John F.: *See*—
Dreyer, John F.; and Hutfles, Lawrence H., 3,426,728.
Hutfles, Lawrence H., 3,459,839.

Dreyer, John F.; and Baltzer, Donald H., to Polacoat Incorporated. Phototropic compositions. 3,436,353, 4-1-69, Cl. 252-300.

Dreyer, John F.; and Hutfles, Lawrence H., to Dreyer, John F. Apparatus for producing oriented patterns. 3,426,728, 2-11-69, Cl. 118-73.

Dreyer, Roy W., to Hughes Aircraft Company. Miniaturized electrical circuits. 3,440,716, 4-29-69, Cl. 29-577.

Dreyer, Siegfried; Harde, Rudolf; Jansing, Walter; Kalkoffen, Friedel; Mausbeck, Hans; and Schnittker, Werner. Heat exchanger system. 3,438,431, 4-15-69, Cl. 165-134.

Dreyfoos, Alex W., Jr.; and Mergens, George W., to Photo Electronics Corporation. Non-linear amplifiers and systems. 3,441,663, 4-29-69, Cl. 178-5.2

Dreyfoos, Alex W., Jr.; and Mergens, George W., to Photo Electronics Corporation. Method and apparatus for controlling cathode ray tube brightness and contrast. 3,471,740, 10-7-69, Cl. 315-10.

Dreyfus, Bertrand Alain, to Societe d'Electronique et d'Automatisme. Electrical film resistors. 3,436,254, 4-1-69, Cl. 117-201.

Dreyfus, Bertrand Alain, to Compagnie Internationale pour l'Informatique, mesne. Film oxide resistive layers. 3,486,931, 12-30-69, Cl. 117-201.

Dreyfus, Joseph. Golf tee with directional pointer. 3,448,984, 6-10-69, Cl. 273-183.

Dreyfus, L. A., Company: *See*—
Phillips, Michael, 3,455,755.

Dreyfus, Robert L., to Grace, W. R., & Co. Packaging. 3,479,788, 11-25-69, Cl. 53-33.

Dreyfus, Russell W.: *See*—
Bron, Walter E.; Dreyfus, Russell W.; and Heller, William R.,3,466,616.

Dreyfuss, Jack: *See—*
Kentfield, Lucius H.; and Dreyfuss, Jack,3,422,565.
Dreyfuss, Patricia M., to Goodrich, B. F., Company, The. Heat-resistant, high-impact blends of post chlorinated vinyl chloride resins and a rubbery tetrahydrofuran polymer. 3,463,834, 8-26-69, Cl. 260-899.
Dreyfuss, Patricia M.; and Tucker, Harold A., to Goodrich, B. F., Company, The. Blends of postchlorinated vinyl chloride resin and a postchlorinated linear polyethylene con- taining a small amount of a rubbery, amorphous polyepoxide. 3,453,347, 7-1-69, Cl. 260-897.
Dreyfuss, Paul; and Anderau, Walter, to Ciba Corporation. Process for producing color photographs. 3,436,218, 4-1-69, Cl. 96-53.
Driam AG: *See—*
Eckhardt, Vilem, 3,481,025.
Driard, Bertrand M.; and Guyot, Lucien Francis, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Electronic zoom image intensifier tube. 3,439,222, 4-15-69, Cl. 315-31.
Driay, Pierre G.: *See—*
Marquis, Charles F.; Driay, Pierre G.; and Lambilliotte, Paul P.,3,474,240.
Driffort, Jean Pierre; and Lebel, Pierre, to Compagnie Francaise de Television. Tricolor cathode ray tube having porous graphite layer on aluminum screen coating. 3,475,639, 10-28-69, Cl. 313-106.
Driffort, Jean-Pierre: *See—*
Bradu, Georges; and Driffort, Jean-Pierre,3,440,469.
Driller, Keith T., to Massey-Ferguson (Australia) Limited. Crop harvester material distribution apparatus. 3,482,690, 12-9-69, Cl. 209-147.
Driltrol: *See—*
Cochran, John F., 3,482,889.
Drinkard, William C., Jr., to Du Pont de Nemours, E. I., and Company. Icosahedral dodecahydrododecaborane derivatives and their preparation. 3,432,539, 3-11-69, Cl. 260-462.
Drinkwater, John W., to Shell Oil Company. Optical method and apparatus for measuring the velocity of a fluid relative to and in a direction parallel to the hull of a ship. 3,472,593, 10-14-69, Cl. 356-28.
Drisch, Nicolas B., to Chimiotex S.A. Process for manufacturing regenerated cellulose filaments. 3,432,589, 3-11-69, Cl. 264-197.
Driscoll, Gary L.: *See—*
Duling, Irl N.; Schneider, Abraham; and Driscoll, Gary L.,3,467,627.
Driscoll, Gary Lee, to Sun Oil Company. Process for preparing polyesters from dialkyl-2,6- naphthalene dicarboxylic acid and a diol. 3,454,532, 7-8-69, Cl. 260-75.
Driscoll, Gary L., to Sun Oil Company. Unsaturated polyesters prepared from α, α'- dimethyl muconic acids. 3,429,949, 2-25-69, Cl. 260-861.
Driscoll, Gary L., to Sun Oil Company. Novel polyamides of adamantane. 3,464,957, 9-2-69, Cl. 260-78.
Driscoll, Graham C., to International Business Machines Corporation. Communication arrangement in data processing system. 3,445,822, 5-20-69, Cl. 340-172.5
Driscoll, James E. Putter and backswing gauge therefor. 3,424,462, 1-28-69, Cl. 273-162.
Driscoll, Jesse L. Earring, including loss preventing attaching device. 3,446,033, 5-27-69, Cl. 63-12.
Driscoll, Jesse L. Pendant earring having toggle attaching means. 3,446,034, 5-27-69, Cl. 63-13.
Driscoll, John S.; and Matthews, Clifford N., to Monsanto Research Corporation. Methods of controlling pests with methylene phosphonium halides. 3,437,473, 4-8-69, Cl. 71-71.
Driscoll, Tommy; and Richards, Homer. Apparatus for use with an internal combustion engine for reducing air pollution. 3,431,898, 3-11-69, Cl. 123-119.
Driskell, Thomas, to Thomas Industries Inc. Lighting fixture with quickly removable ballast assembly. 3,433,887, 3-18-69, Cl. 174-63.
Dritz, Arthur, to Scovill Manufacturing Company. Sewing gauge. 3,430,346, 3-4-69, Cl. 33-2.
Drive-In Theater Manufacturing Company, Inc.: *See—*
Wells, Orville C., 3,484,552.
Driver, George J., Jr. High-speed bearing lubricator. 3,435,913, 4-1-69, Cl. 184-6.
Driver, Wilfred D. Storable bed. 3,464,070, 9-2-69, Cl. 5-136.
Drivet, Jean Auguste Prosper, to Societe Anonyme: Societe Auxiliaire des Producteurs. Fluid sampling device. 3,459,263, 8-5-69, Cl. 166-165.
Drnec, Harry F.; and Foote, Allan E., to Container Corporation of America. Reinforced cover flange for containers. 3,424,369, 1-28-69, Cl. 229-44.
Drobich, Oleg Pavlovich: *See—*
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.
Drobny, Neil L., to United States of America, Navy. Mechanical-flush chemical toilet. 3,460,165, 8-12-69, Cl. 4-115.
Droege, John W.; and Melton, Carl W., to Battelle Development Corporation, The, mesne. Light induced imaging of selenium in the presence of cadmium or mercury vapors. 3,440,046, 4-22-69, Cl. 96-27.
Droege, Thomas F.; and Nelson, William D., to Applied Logic Corporation. Punched record reader. 3,467,820, 9-16-69, Cl. 235-61.11
Droit et Pharmacie: *See—*
Pouget, Joseph, 3,461,152.
Droitcour, Howard A. Grinding machines. 3,426,483, 2-11-69, Cl. 51-165.
Drolet, Walter B.: *See—*
Bonkowski, Edmund P.; and Drolet, Walter B.,3,483,305.
Drometer, Klaus: *See—*
Strifler, Paul E.; Drometer, Klaus; and Scarpatetti, Dieter,3,473,634.
Drone, Gary A., to Allis-Chalmers Manufacturing Company. Compensating hydraulic stabilizing system for bulldozer. 3,441,092, 4-29-69, Cl. 172-803.
Droniou, Daniel; and Consolin, Francis, to CSF-Compagnie Generale de Telegraphie Sans Fil. Slow rate pulse counters. 3,440,640, 4-22-69, Cl. 340-325.
Drop, Joseph G.: *See—*
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr.,3,473,212.
Dropkin, David; O'Connor, Thomas J.; Cass, Le A.; and Comfort, Edward H., to Avco Corporation. High temperature probe. 3,453,880, 7-8-69, Cl. 73-190.
Droppa, Cyril, to Sylvania Electric Products, Inc. Electron discharge device anode fin insert with integral radiating wings. 3,428,844, 2-18-69, Cl. 313-39.
Drori, Moshe, to C.A.V. Limited. Liquid fuel pumping apparatus for supplying fuel to internal combustion engines. 3,426,689, 2-11-69, Cl. 103-41.
Drori, Moshe, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,439,621, 4-22-69, Cl. 103-2.
Drori, Moshe, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,447,520, 6-3-69, Cl. 123-139.
Dros, Barbara; and Engel, Eric, to SCM Corporation, mesne. Butter-flavored salt. 3,476,572, 11-4-69, Cl. 99-143.
Drost, Wilfred, to Union Carbide Corporation. Desiccant bodies. 3,446,645, 5-27-69, Cl. 117-26.
Droste, Werner; and Lanfermann, Willy, to Gebr. Eickhoff, Maschinenfabrik und Eisegiesserei m.b.H. Longwall mining apparatus. 3,482,879, 12-9-69, Cl. 299-45.
Drotar, Fredrick L., to Ford Motor Company. Fastened assembly having a high resistance to varying shear loads. 3,456,972, 7-22-69, Cl. 287-189.36
Drouard, Jean L.; and Stavropoulos, Andre A., to Moteurs Drouard. Electric motor having an airgap sleeve. 3,487,457, 12-30-69, Cl. 310-86.
Drouard, Jean. Moteurs Drouard Externally prismatic shaped electromagnetic rotary machine. 3,461,328, 8-12-69, Cl. 310-52.
Drouet, Michel: *See—*
Rullier, Robert; and Drouet, Michel,3,473,988.
Drouilhet, Paul R., Jr.; and Holsinger, Jerry L., to Massachusetts Institute of Technology. Data transmission method and system utiliznng adaptive equalization. 3,444,468, 5-13-69, Cl. 355-42.
Drouillard, William, to Emerson Electric Co. Strand chuck. 3,478,396, 11-18-69, Cl. 24-126.
Drouin, Andre H., to Rockwell Manufacturing Company. Diverter. 3,482,601, 12-9-69, Cl. 137-610.
Droulers, Jean-Louis: *See—*
Aitken, John; and Droulers, Jean-Louis,3,460,624.
Droussent, Roger: *See—*
Brigot, Camille; Droussent, Roger; and Commissriat a l'Energie Atomique,3,482,304.
Droutman Manufacturing Company, Inc.: *See—*
Pelvin, Joseph V.; and Ioviero, Frank, 3,451,601.
Droux, Jacques Pierre Leon, to Societe Industrielle Bull-General Electric (Societe Anonyme). Magnetic-film input-output element. 3,487,374, 12-30-69, Cl. 340-172.5
Drtina, Otto V.: *See—*
Politzer, Alfred; Drtina, Otto V.; and Bedoch, Joseph S.,3,473,884.
Druesne, Henri Desire: *See—*
Doll, Jean Henri; and Druesne, Henri Desire,3,463,671.
Druge, Daniel Orth, to Parker-Hannifin Corporation. Controlled flow safety nozzle. 3,445,069, 5-20-69, Cl. 239-407.
Drugmand, Lester D., to Wiegand, Edwin L., Company. Electric heating apparatus. 3,444,357, 5-13-69, Cl. 219-535.
Drugowitsch, Hellmut, to Buhler, Gebruder. Cold chamber-pressure casting machine with sieve- like barrier for piston pump. 3,430,685, 3-4-69, Cl. 164-314.
Druilhet, Ernest F. Shoe. 3,484,957, 12-23-69, Cl. 36-2.5
Drukker, Alexander E.; and Judd, Claude I., to Colgate-Palmolive Company. Novel morphanthridine derivatives. 3,435,042, 3-25-69, Cl. 260-293.

Drukker, Alexander E.: *See—*
Judd, Claude I.; Drukker, Alexander E.; and Biel, John H.,3,435,073.

Drum, Daniel D., to National Dust Collector Corporation. Apparatus for collecting contaminants from gases. 3,432,153, 3-11-69, Cl. 261-108.

Drum, Edward W., to Ransburg Electro-Coating Corporation. Coating system. 3,446,183, 5-27-69, Cl. 118-629.

Drum, Edward W., to Ransburg Electro-Coating Corporation. Electrostatic coating apparatus. 3,473,735, 10-21-69, Cl. 239-15.

Drum, Edward W., to Ransburg Electro-Coating Corporation. Method and apparatus for applying a binder material to a prearranged web of unbound, non- woven fibers by electrostatic attraction. 3,475,198, 10-28-69, Cl. 117-93.4

Drumm, John J.; and Najmowicz, Matthew C., to Ford Motor Company. Device for positioning and holding. 3,439,813, 4-22-69, Cl. 214-1.

Drummond Automotive Inc.: *See—*
Grondin, Ernest, 3,480,063.

Drummond, Warren Wendell. Fiber winding machine. 3,430,312, 3-4-69, Cl. 28-1.

Drummond, William E.: *See—*
Griffey, Donald E.; and Drummond, William E.,3,424,998.

Drummond, William Eric, to Motorola, Inc. Deflection system with linearity correction network. 3,439,221, 4-15-69, Cl. 315-27.

Drury, Chauncey R., to Whirlpool Corporation. Atmosphere generator. 3,469,947, 9-30-69, Cl. 23-281.

Drury, Robert A. Crane construction. 3,471,033, 10-7-69, Cl. 212-8.

Druseikis, Frederick, to General Motors Corporation. Low profile concealed articulating wiper-washer assembly. 3,440,679, 4-29-69, Cl. 15-250.04

Drushel, Harry Vernon: *See—*
Pine, Lloyd Albert; Ellert, Henry George; and Drushel, Harry Vernon,3,442,935.

Drushel, Robert W., to Ex-Cell-O Corporation. Circuit for and method of control signal generation in response to a transient signal. 3,471,750, 10-7-69, Cl. 317-49.

Drutchas, Gilbert H.: *See—*
Clark, Hubert M.; and Drutchas, Gilbert H.,3,424,094.
Clark, Hubert M.; and Drutchas, Gilbert H.,3,467,441.
Clark, Hubert M.; and Drutchas, Gilbert H.,3,480,336.

Druz, Walter S., to Zenith Radio Corporation. Defibrillator and control circuit. 3,442,269, 5-6-69, Cl. 128-419.

Drybread, John S., Sr.; and Fritz, Dale C. License plate holder. 3,430,376, 3-4-69, Cl. 40-209.

Dryburgh, David Campbell, to Rolls-Royce Limited. Apparatus for generating electrical power. 3,422,290, 1-14-69, Cl. 310-11.

Dryden Chemicals Limited: *See—*
Kircher, Morton S., 3,477,938.
Kircher, Morton S., 3,477,939.

Dryden, Hugh L., Jr.; and Webber, Gayle M., to Searle, G. D., & Co. Process and intermediates for the manufacture of 3-keto-17-ketal steroids. 3,455,907, 7-15-69, Cl. 260-239.55

Dryer, Peter J.; and De Lorme, Albert R., to Essex Wire Corporation, mesne. Direction signal operating apparatus. 3,432,630, 3-11-69, Cl. 200-61.34

DSO Tejko I Obshto Mashinostroene: *See—*
Dimitrov, Milko Dimitrov, 3,458,984.

Dual Gebruder Steidinger: *See—*
Siegemund, Richard, 3,426,977.
Siegemund, Richard, 3,445,075.
Siegemund, Richard, 3,454,728.
Siegemund, Richard, 3,467,342.
Zimmermann, Heinrich, 3,427,032.

Dual Jet Refrigeration Co.: *See—*
Hermanson, Bernard A., 3,420,070.
Vogel, Robert E.; Hermanson, Bernard A.; and Kuykendall, Earl G., 3,465,536.

Dual Manufacturing & Engineering, Inc.: *See—*
Re, Frank M., 3,433,527.

Duarte International Sales Co., Inc.: *See—*
Duarte, Joseph S., 3,466,035.

Duarte, Joseph S., to Duarte International Sales Co., Inc. Disassemblable top rail for a billiard table. 3,466,035, 9-9-69, Cl. 273-9.

Dubach, Harold W. Submersible bathythermograph. 3,473,383, 10-21-69, Cl. 73-343.

Dubach, Paul, to Heberlein & Co. AG. Apparatus for testing burst resistance and dome elasticity of sheet material. 3,477,287, 11-11-69, Cl. 73-102.

Du Barry, Adrian P., Jr., to Weyerhaeuser Company. Reinforced telescopic container. 3,428,234, 2-18-69, Cl. 229-23.

Du Barry, Adrian P., Jr., to Weyerhaeuser Company. Reinforced container structure. 3,434,648, 3-25-69, Cl. 229-23.

Dubbe, Richard F.; and Reed, Edward W., Jr., to Minnesota Mining and Manufacturing Company. Electron beam recorder with frame rate conversion. 3,444,317, 5-13-69, Cl. 178-6.7

Dubbelman, Pieter, to U.S. Philips Corporation, mesne. Electric ventilator. 3,486,689, 12-30-69, Cl. 230-259.

Dubbert, Karl E. Multi-purpose stand. 3,468,039, 9-23-69, Cl. 35-60.

Dubble, Roger D.; and Alten, Edward H., to Anchor Hocking Glass Corporation. Method and means for vapor coating. 3,438,803, 4-15-69, Cl. 117-106.

Dubble, Roger D.; and Orton, Erby, to Anchor Hocking Corporation. Method and means for surface coating glassware. 3,479,208, 11-18-69, Cl. 117-94.

Dubbs, Wendell P. Photographic distortion device. 3,445,165, 5-20-69, Cl. 355-84.

Dube, Gerd-Gunther: *See—*
Schroder, Joris Theodor; and Dube, Gerd-Gunther,3,469,678.

Dubeck, Michael; and Kleiman, Joseph P., to Ethyl Corporation. Emission control additive. 3,434,814, 3-25-69, Cl. 44-69.

du Bellay, Marc Griffon; and Doutillon, Gabriel, to Ugine Kuhlmann. Process for the production of chlorites of alkali and alkaline-earth metals. 3,450,493, 6-17-69, Cl. 23-85.

Dubin, Dennis S.; and Frost, Solomon, to U.S. Composites Corporation. Reinforced iron base alloys containing boron fibers. 3,476,529, 11-4-69, Cl. 29-183.5

Dubinsky, Emanuel. Cover for beach umbrellas and the like. 3,431,926, 3-11-69, Cl. 135-34.

Dubitsky, Frank R., to Ford Motor Company. Method of cleaning a shell molded casting. 3,486,938, 12-30-69, Cl. 134-2.

Dublon, Incorporated: *See—*
Rosen, Jacob J., 3,432,581.
Rosen, Jacob J., 3,456,045.

Dubner, Benjamin B. Means for molding shoe soles. 3,444,586, 5-20-69, Cl. 18-5.1

Dubois, Andre; and Sadoune, Joseph, to Commissariat a l'Energie Atomique, and Electricite de France (Service National). Nonisotropically electrically conductive electrodes. 3,487,256, 12-30-69, Cl. 313-346.

Dubois, Andre: *See—*
Richez, Jacques; Dubois, Andre; Battentier, Jean-Claude; Thoris, Jean; and Parizot, Daniel,3,475,627.

DuBois, Chester, to Outboard Marine Corporation. Alignment bushing for needle valve. 3,469,825, 9-30-69, Cl. 261-71.

Dubois, Ernest Marie Rene, to Bertin et Compagnie. Meteorological observation apparatus and its infrastructure installation. 3,420,100, 1-7-69, Cl. 73-170.

Dubois, Joseph W., to Marshall, John Donald, and Bomar, Horace L., as trustee of Carolina Patent Development Trust, The. Yarn severing mechanism. 3,444,678, 5-20-69, Cl. 57-53.

Du Bois, Richard, Jr.; and Rucki, George;, to Wagner Electric Corporation. Two-color variable intensity display. 3,481,062, 12-2-69, Cl. 40-130.

Dubois, Robert A.; and Gushard, William H., to Greif Bros. Cooperage Corporation, The. Plastic drum liner with convertible top feature. 3,445,031, 5-20-69, Cl. 220-63.

Dubois, Robert A.: *See—*
Carpenter, Herbert L., Jr.; and Dubois, Robert A.,3,432,070.

Dubois, Robert, to Colfico, S.A. Electric heating covering. 3,454,746, 7-8-69, Cl. 219-549.

Dubosc, Jean-Pierre C. G.: *See—*
Thiebaut, Roger P. J. G.; Dubosc, Jean-Pierre C. G.; and Mercier, Claude A. L. L.,3,485,624.

Dubow Chemical Corporation: *See—*
Dubow, Jerome, 3,440,026.

Dubow, Jerome, to Dubow Chemical Corporation. Solvent extraction of elemental sulphur from sulphur-bearing materials. 3,440,026, 4-22-69, Cl. 23-308.

Duboz, Georges; and Demars, Paul, l'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Protective atmosphere for the arc welding and surfacing of steels. 3,470,346, 9-30-69, Cl. 219-74.

Dubreuil, Claude, to Progil. Apparatus for the granulation of fluid products. 3,443,621, 5-13-69, Cl. 159-4.

DuBroff, Waren: *See—*
Hageline, Emil E., 3,481,105.

Du Broff, Warren: *See—*
Hageline, Emil E., 3,425,186.

Du Broff, Warren. Conveyor fitting. 3,448,849, 6-10-69, Cl. 198-170.

Dubrovin, Boris Nickolaevich; Fedorov, Boris Nickolaevich; Blekhman, Ilja Izrailevich; and Petrosjants, Anatoly Aramaisovich, to Vsesojuzny Nauchno-Issledovatelsky i Proektny Institute Mekhanicheskoi Obrabotki Poleznykh Iskopaemykh. Centrifugal mill. 3,467,318, 9-16-69, Cl. 241-42.

Dubrow, Alvin L., to Cadillac Gage Company. Fluid power control system and components therefor. 3,460,575, 8-12-69, Cl. 137-625.69

Du Brow, Paul L.: *See—*
Baarson, Robert E.; and Du Brow, Paul L.,3,425,551.
Baarson, Robert E.; Du Brow, Paul L.; and Ray, Charles L.,3,425,550.

Dubsky, George Jon; and Stark, Bernard Peter, to Ciba Limited. Production of high molecular weight materials. 3,458,483, 7-29-69, Cl. 260-78.3

Dubuc, Rene A.: *See—*
Ty, Henry; and Dubuc, Rene A.,3,459,516.

Du Buis, Edwin O.; and Cucksey, Edward L., to Willcox & Gibbs, Inc. Orienting and stacking of doffed packages. 3,447,297, 6-3-69, Cl. 57-53.
Dubuit, Louis Gilbert. Automatic devices for distributing and directing various objects such as flasks, tubes or the like. 3,446,335, 5-27-69, Cl. 198-33.
Dubuque, Donald J.: *See—*
Torrey, Sumner H.; Dubuque, Donald J.; Sloan, Norman R.; and Morris, Robert L.,3,469,568.
Torrey, Sumner H.; Dubuque, Donald J.; Weiss, Johnny C.; and Sloan, Norman R.,3,480,000.
Dubus, Gerard, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Transferring articles to or from conveyors. 3,450,287, 6-17-69, Cl. 214-622.
Duca, William J., to General Motors Corporation. Horizontal coreless induction furnace. 3,483,301, 12-9-69, Cl. 13-26.
Ducellier & Cie: *See—*
Salomon, Roger, 3,452,428.
Salomon, Roger, 3,452,728.
Salomon, Roger, 3,482,559.
Duchek, Ladislav; and Hasenohrl, Jan, to Ceskoslovenska akademie ved. Filtering apparatus. 3,433,360, 3-18-69, Cl. 210-249.
Duchemin, Michael, to Ressorts du Nord S.A. Damper and its applications in particular in vehicle suspension springs. 3,456,939, 7-22-69, Cl. 267-47.
Duchet, Michel: *See—*
Charles, Daniel; and Duchet, Michel,3,461,340.
Duck, Edward William; and Ridgewell, Brian John, to International Synthetic Rubber Company Limited, The. Ethylene polymerisation process in the presence of free radicals and solid catalysts including certain trihalides of vanadium or titanium. 3,480,604, 11-25-69, Cl. 260-88.2
Duck, Edward William; and Thornber, Michael Neil, to International Synthetic Rubber Company Limited, The. Process for the polymerization of butadiene in the presence of a catalyst system comprising an organo Ni or Co compound, a chloride of Sn or Ga and an organolithium compound. 3,433,778, 3-18-69, Cl. 260-94.3
Duck, Edward William; and Thornber, Michael Neil, to International Synthetic Rubber Company Limited, The. Copolymers of cis-1,4 butadiene and vinyl ethers and their preparation. 3,458,488, 7-29-69, Cl. 260-82.1
Duck, Henry J., to Mechanism Limited. Aircraft instrument correction. 3,446,948, 5-27-69, Cl. 235-151.3
Duckett, William A., to Woodhead Manufacturing Company Limited. Suspension system and seal means therefor. 3,446,318, 5-27-69, Cl. 188-100.
Duckett, William A., to Woodhead Manufacturing Company, Limited. Two stage shock absorber. 3,447,644, 6-3-69, Cl. 188-88.
Duckitt, Harry; and King, Kenneth G., to Westinghouse Brake and Signal Company Limited. Code detecting apparatus. 3,428,868, 2-18-69, Cl. 317-134.
Duckworth, Byron R., to Sperry Rand Corporation. Quasi-square wave generating apparatus. 3,476,957, 11-4-69, Cl. 307-261.
Duckworth, Leonard J.; Pettinga, Paul V.; and McGowan, Patrick G., to Gerber Products Company. Method for deboning eviscerated whole fowl. 3,471,299, 10-7-69, Cl. 99-107.
Duclaux, Daniel, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Lifting beam for electrolysis cells. 3,434,955, 3-25-69, Cl. 204-225.
Duclaux, Daniel, to Pechiney-Compagnie de Produits Chimiques et Electro metallurgiques. Electrode guide and placement means and method. 3,480,526, 11-25-69, Cl. 204-67.
Ducommun, Georges; and Adler, Karl, to Biviator S.A. Electric current limiter circuit for limiting electric motor torque in a tool. 3,477,007, 11-4-69, Cl. 318-434.
Ducommun Incorporated: *See—*
Rodgers, John T.; Williams, Richard M.; and Larsen, Richard J., 3,420,244.
Smith, William H.; Whitley, Daniel M.; and Eaton, Edgar P., Jr., 3,435,881.
Warren, James W., Jr., 3,424,228.
Duconge, Claude; and Magneville, Pierre, to Institut Francais du Petrole, des Carburants et Lubriflants. Device for feeding and loading an explosion generator with explosive charges. 3,439,577, 4-22-69, Cl. 89-1.
Duda, A., & Sons, Inc.: *See—*
Mason, Don F., 3,472,662.
Duda, Edward D. Differential flux current transducer. 3,426,588, 2-11-69, Cl. 73-141.
Duda, James L.: *See—*
Worcester, Francis J.; Shapiro, Michael D.; and Duda, James L.,3,468,214.
Duda, John L., Jr. Automatic celery harvesting machine. 3,442,071, 5-6-69, Cl. 56-327.
Duda, William J., to American Cyanamid Company. Corrugating machine. 3,430,476, 3-4-69, Cl. 72-190.
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard, to International Business Machines Corporation. Light deflecting mechaniams. 3,435,447, 3-25-69, Cl. 340-347.
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard, to International Business Machines Corporation. Optical parallel adder. 3,466,433, 9-9-69, Cl. 235-175.
Duddridge, Geoffrey, to International Standard Electric Corporation. Adjustable bipolar power supply. 3,441,830, 4-29-69, Cl. 321-43.
Duddy, James J. Mechanics electric lamp assembly. 3,479,500, 11-18-69, Cl. 240-52.
Duddy, Joseph C., to E&B Incorporated. Battery electrode having thin deposit of meta- dinitrobenzene on graphite fabric and a method for making it. 3,433,673, 3-18-69, Cl. 136-22.
Duddy, Joseph C., to ESB Incorporated. Battery plate having laminar grid. 3,453,145, 7-1-69, Cl. 136-46.
Duddy, Joseph C., to ESB Incorporated, mesne. Storage battery having internal acid package. 3,455,740, 7-15-69, Cl. 136-26.
Duddy, Joseph C., to ESB Incorporated. Battery having lead dioxide cathode, magnesium or zinc anode, and potassium acid sulfate electrolyte. 3,466,194, 9-9-69, Cl. 136-100.
Duddy, Joseph C., to ESB Incorporated. Method of making battery electrodes using molten meta-dinitrobenzene. 3,481,786, 12-2-69, Cl. 136-67.
Duddy, Joseph C., to ESB Incorporated. Seawater reserve battery having magnesium anode and lead dioxide-graphite fabric cathode. 3,481,790, 12-2-69, Cl. 136-100.
Duddy, Joseph C., to ESB Incorporated, mesne. Method of making microporous material. 3,486,946, 12-30-69, Cl. 136-175.
Duddy, Joseph C.; Arms, John T.; and Kelley, John J., to ESB Incorporated, mesne. Alkaline cell with barrier-type organic polysulfide resin separator. 3,479,223, 11-18-69, Cl. 136-6.
Duddy, Joseph C.; and Dermody, William J., to ESB, Incorporated. Method of making a battery electrode containing meta-dinitrobenzene and a metallic halide. 3,437,523, 4-8-69, Cl. 136-20.
Dudfield, James: *See—*
Anderson, Charles E.; and Dudfield, James,3,444,615.
Dudley, Bruce C. Remotely controlled rear-view mirror assemblies for vehicles. 3,420,118, 1-7-69, Cl. 74-501.
Dudley, Dennis W.: *See—*
McWilliam, Gordon L.; Dudley, Dennis W.; Grimwood, Terence J.; and Holmes, John Berwick,3,443,177.
Dudley, Homer W., to Bell Telephone Laboratories, Incorporated. Signaling system. 3,470,323, 9-30-69, Cl. 179-1.5
Dudley, John Trevor, to Sanky, Joseph, & Sons Limited. Change speed means for use with tilting cabs. 3,476,202, 11-4-69, Cl. 180-77.
Dudley, Richard H.: *See—*
Briggs, Thomas H.; and Dudley, Richard H.,3,424,532.
Dudley, Robert E.; and McDaniel, Walter L. Shockproof doorknob. 3,462,183, 8-19-69, Cl. 292-347.
Dudley, Robert L., to Hewlett-Packard Company. Generator for producing symmetrical triangular waves of variable repetition rate. 3,440,448, 4-22-69, Cl. 307-271.
Dudley, Vernon E., to Gala Industries, Inc. Centrifugal pellet drier. 3,458,045, 7-29-69, Cl. 210-95.
Dudley, Wilton V.: *See—*
Curry, Janet C.; and Dudley, Wilton V.,3,455,788.
Dudzik, Chester J.; Fisher, Daniel V., Jr.; and Parkins, Guy E., to Leesona Corporation. Method for processing textured yarn. 3,422,617, 1-21-69, Cl. 57-157.
Dudzik, Chester J.; and Perkins, Guy E., to Leesona Corporation. Glass yarn having controlled torsional forces. 3,430,432, 3-4-69, Cl. 57-140.
Dudzinski, Zdzislaw F., to Millmaster Onyx Corporation. Process of making aliphatic amines. 3,436,420, 4-1-69, Cl. 260-583.
Duecy, George P. Axle load distributing and balancing device. 3,479,049, 11-18-69, Cl. 280-81.
Duennenberger, Max; and Schellenbaum, Max, to Ciba Limited. Diurethane compounds. 3,470,232, 9-30-69, Cl. 260-471.
Duepree, Hans Werner, to Elco-Kunststoffe A Elges & Co. Unit construction component. 3,438,164, 4-15-69, Cl. 52-282.
Duer, Morris J., to General Motors Corporation. Limited slip differential with antichatter clutch. 3,477,312, 11-11-69, Cl. 74-711.
Duerdoth, Winston Theodore. Oscillator synchronisation in digital communications systems. 3,467,779, 9-16-69, Cl. 179-15.
Duerksen, Arnold, to Halbach, E. H., mesne. Bottle sorting apparatus. 3,437,200, 4-8-69, Cl. 209-73.
Duerksen, Arnold, to Cochran Western Corporation, mesne. Reversible trailer train construction. 3,480,295, 11-25-69, Cl. 280-408.
Duerksen, Arnold: *See—*
Mc Cartney, Duane N.; and Duerksen, Arnold,3,474,925.
Duernay, Karlheinz: *See—*
Binger, Bernhard; and Duernay, Karlheinz,3,439,559.
Duerr, Dieter: *See—*
Martin, Henry; Duerr, Dieter; Hitz, Hans Rudolf; and von Orelli, Marcus,3,483,296.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig, to Ciba Limited. Method for combating undesired plant growth. 3,429,688, 2-25-69, Cl. 71-90.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig, to Ciba Limited. Composition and method for combatting mites with N-4-bromo-2-

methyl phenyl-N',N'-di-methyl formamidine. 3,467,757, 9-16-69, Cl. 424y326.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig, to Ciba Limited. Combating insects, their eggs, or acarids on plants. 3,487,156, 12-30-69, Cl. 424-330.
Duerr, Dieter; Rohr, Otto; Aebi, Hans; and Ebner, Ludwig, to Ciba Limited. Phenoxy pyridines as herbicides. 3,429,689, 2-25-69, Cl. 71-94.
Duerr, Helmut: *See—*
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard,3,483,807.
Duerst, Fred D. Bait container. 3,423,869, 1-28-69, Cl. 43-55.
Dufaylite Developments Limited: *See—*
White, Desmond Deverell, 3,475,252.
Duff, Joseph H., to Union Tank Car Company. Fluid control means for filter backwashing and air scouring. 3,428,177, 2-18-69, Cl. 210-108.
Duff, Joseph H., to Union Tank Car Company, mesne. Method for cleaning filter bed for sugar liquor. 3,436,260, 4-1-69, Cl. 127-55.
Duff, Joseph H., to Union Tank Car Company, mesne. Method and apparatus for removing suspended solids from liquids. 3,473,661, 10-21-69, Cl. 210-82.
Duff, Joseph H., to Union Tank Car Company. Flow control means for water treating apparatus. 3,473,665, 10-21-69, Cl. 210-188.
Duff, Joseph H.: *See—*
Soriente, Alfonse J.; and Duff, Joseph H.,3,472,382.
Duff, Samuel. Battery cages. 3,465,722, 9-9-69, Cl. 119-18.
Duff-Norton Company, Inc.: *See—*
Beck, Robert J., 3,485,110.
Duffek, Edward F., Jr.; and Blech, Ilan A., to Fairchild Camera and Instrument Corporation. Method of fabrication of solder reflow interconnections for face down bonding of semiconductor devices. 3,480,412, 11-25-69, Cl. 29-195.
Duffers Associates, Inc.: *See—*
Ferguson, Hugo S., 3,445,768.
Duffey, Donn W.; and Wissman, Jack L., to Duriron Company, Inc., The. Butterfly valve. 3,425,439, 2-4-69, Cl. 137-375.
Duffield, Frederick E., to Ether Engineering Limited, formerly called Ether Langham Thompson Limited. Transducing devices. 3,447,117, 5-27-69, Cl. 338-6.
Duffield, Robert S. Portable seat. 3,441,314, 4-29-69, Cl. 297-377.
Duffin, George F.; and Hogg, James W., to Minnesota Mining and Manufacturing Company. Tetraazaindenes as antifoggants. 3,462,272, 8-19-69, Cl. 96-109.
Duffner, Karl Heinz: *See—*
Schuster, Wilhelm, 3,482,570.
Duffner, Wolfgang: *See—*
Schuster, Wilhelm, 3,482,570.
Duffy, Francis A., Jr. Animated figure. 3,427,745, 2-18-69, Cl. 46-118.
Duffy, John A.: *See—*
Barrekette, Euval S.; and Duffy, John A.,3,466,615.
Duffy, Philip A., Jr., to Westinghouse Electric Corporation. Semiconductor current pulse controller for regulating the exposure provided by an X-ray tube. 3,449,574, 6-10-69, Cl. 250-95.
Duffy, Richard J.: *See—*
Burke, George F. C.; Duffy, Richard J.; and Peterson, Raymond L.,3,452,714.
Duffy, Richard Joseph; and De Maria, Francesco, to American Cyanamid Company. Method for tanning absorbable surgical sutures. 3,483,286, 12-9-69, Cl. 264-202.
Duffy, Robert Joseph: *See—*
Freid, Wilbert Bernard; Duffy, Robert Joseph; and Sargisson, Donald Farley,3,465,950.
Duffy, William B., to United-Carr Incorporated, mesne. Stud-and-fastener assembly. 3,444,774, 5-20-69, Cl. 85-36.
du Fosse, Peter; and Glenfield, George E., to S-F-D Laboratories, Inc. Reverse magnetron having a circular electric mode purifier in the output waveguide. 3,441,793, 4-29-69, Cl. 315-39.53
Dufour, Adrien Lucien. Dehydration oven having continuous conveyors. 3,431,657, 3-11-69, Cl. 34-209.
Dufour, Gisele: *See—*
Dallois, Robert; Robic , Roger; and Dufour, Gisele,3,462,128.
Dufour, Robert: *See—*
Kirk, Harry V.; and Dufour, Robert,3,458,383.
Dufourmantel, Marius Georges, to Societe Financiere et Industrielle de Chemin de Fer. Automatic trainline connector. 3,421,636, 1-14-69, Cl. 213-76.
Du Fresne, Eugene R.: *See—*
Hsu, Howard L.; and Du Fresne, Eugene R.,3,423,345.
Du Fresne, Harold A., to FMC Corporation. Printing press web supporting and driving rolls. 3,457,657, 7-29-69, Cl. 34-155.
Dufresne, Harold E., to Cornelius Company, The. Pressure regulator valve. 3,482,591, 12-9-69, Cl. 137-116.5
Dugan, Joseph Wayne. Pickup truck stock rack. 3,456,977, 7-22-69, Cl. 296-10.
Dugan, William F.; and Swanke, Roy L., to Dynamics Corporation of America. Explosion-proof blender motor and housing. 3,447,000, 5-27-69, Cl. 310-50.
Dugan, William P.: *See—*
Freehauf, Eugene G.; and Dugan, William P.,3,429,036.
Freehauf, Eugene G.; and Dugan, William P.,3,431,641.
Dugan, William P., to General Dynamics Corporation. Internal connection method for circuit boards. 3,426,427, 2-11-69, Cl. 29-625.
Dugan, William P.; and Freehauf, Eugene G., to General Dynamics Corporation. Method of making tubular solder connectors. 3,429,037, 2-25-69, Cl. 29-625.
Dugan, William P.; and Freehauf, Eugene G., to General Dynamics Corporation. Method of manufacturing electrical intraconnectors. 3,429,038, 2-25-69, Cl. 29-625.
Dugay, Pierre Henri, to D.B.A. Selector valve. 3,472,262, 10-14-69, Cl. 137-112.
Dugay, Pierre Henri, to D.B.A. Digitally controlled flow regulating valves. 3,473,571, 10-21-69, Cl. 137-625.4
Dugdale, Ronald Arthur; and Ford, Stanley Denis, to United Kingdom Atomic Energy Authority. Cold cathode, glow discharge devices. 3,482,133, 12-2-69, Cl. 313-210.
Dugelay, George Michel, to Saxby. Low-lift pallet truck. 3,421,775, 1-14-69, Cl. 280-43.12
Dugelay, Georges Michel, to Saxby. Hydraulic elevating unit for lifting appliances. 3,455,211, 7-15-69, Cl. 91-447.
Duggan, John J.: *See—*
Andersen, Ingar F.; Brew, Richard D.; and Duggan, John J.,3,429,563.
Duggan, Lee E.: *See—*
Adrien, Richard N.; and Duggan, Lee E.,3,462,091.
Duggan, Lois J.: *See—*
Daugherty, Ralph K., 3,437,116.
Simmons, Patrick M. L., 3,437,819.
Simmons, Patrick M. L., 3,455,444.
Simmons, Patrick M. L., 3,467,254.
Duggan, Louis J.: *See—*
Crawford, Lynn D., 3,422,954.
Duggan, Robert B., to American Standard, Inc. Open pore foam faucet insert. 3,428,258, 2-18-69, Cl. 239-590.3
Duggan, Robert Beaman: *See—*
Parkison, Richard Grant; and Duggan, Robert Beaman,3,430,686.
Dugge, Richard H.: *See—*
Carney, John L., Jr.; and Dugge, Richard H.,3,476,042.
Duguay, Michel A.; Giordmaine, Joseph A.; and Rentzepis, Peter M., to Bell Telephone Laboratories, Incorporated. Signal detector. 3,453,429, 7-1-69, Cl. 250-71.
Duguay, Michel A.: *See—*
Bond, Walter L.; Duguay, Michel A.; and Rentzepis, Peter M.,3,484,721.
Duhaime, Raymond A.; Lasto, Clifford S.; and Lasto, Stephen W., to Air-Vac Engineering Company, Incorporated. Vacuum creating device. 3,474,953, 10-28-69, Cl. 230-95.
Du Hamel, Raymond H., to Hughes Aircraft Company. Wide-band hybrid network. 3,432,775, 3-11-69, Cl. 333-11.
Duhart, Pierre: *See—*
Cohen, Joseph; Duhart, Pierre; and Maurel, Pierre,3,484,196.
Duhem, Jean: *See—*
Beauval, Jean-Jacques; Duhem, Jean; and Pacchioni, Antenore,3,427,927.
Duhem, Victor, to Venot-Pic. Rotary heat exchanging apparatus. 3,447,792, 6-3-69, Cl. 263-32.
Duhem, Victor, to Venot-Pic. Process and device for discharging a ponderable matter at the outlet of a rotary apparatus. 3,452,969, 7-1-69, Cl. 263-32.
Duiser, Johannes Aart; and Rieke, Johannes Cornelis, to Algemene Kunstzijde Unie, N.V. Process for the phase separation spinning of yarns from fiber-forming polyparaphenylene oxides. 3,476,849, 11-4-69, Cl. 264-203.
Du Kane Corporation: *See—*
Landesman, Eric, 3,457,009.
Montgomery, Arvid N., 3,437,767.
Duke, Angus John: *See—*
Cameron, Grant McLay; and Duke, Angus John,3,465,057.
Duke, Doyal P.: *See—*
Swafford, Kenneth L.; Duke, Doyal P.; and Hazelwood, Roy E.,3,433,464.
Duke, Edward D., to International Harvester Company. Linkage for self-loading elevator scraper. 3,427,641, 2-11-69, Cl. 37-8.
Duke, Edward D.; and Hermiz, Ramiz Y., to International Harvester Company. Elevator mounting for self-loading elevator scraper. 3,479,754, 11-25-69, Cl. 37-8.
Duke, Edward D.: *See—*
Hermiz, Ramiz Y.; and Duke, Edward D.,3,462,860.
Duke, James B., to Engelhard Minerals & Chemicals Corporation. Method for recovering and reusing flotation product for use as froth flotation reagent. 3,425,546, 2-4-69, Cl. 209-10.
Duke, Jimmy R.: *See—*
Miller, Walter E., Jr.; and Duke, Jimmy R.,3,483,370.
Duke, June T.: *See—*
Solak, Thomas A.; and Duke, June T.,3,426,102.
Duke, Keith A.: *See—*
Bush, Grant H.; and Duke, Keith A.,3,462,741.
Duke, Louie C. Drive-in advertiser. 3,436,879, 4-8-69, Cl. 52-38.

Duke, Philip J., to Sprague Electric Company. Sintered glass integrated circuit structure product and method of making the same. 3,482,149, 12-2-69, Cl. 317-234.
Duke, Roy B., Jr.; and Perry, Milton A., to Eastman Kodak Company. Preparation of 2,2-disubstituted-1,3- propanediol monoesters. 3,442,931, 5-6-69, Cl. 260-468.
Duke, Roy B., Jr.; and Perry, Milton A., to Eastman Kodak Company. Unsaturated alicyclic glycol monoesters. 3,455,988, 7-15-69, Cl. 260-468.
Duke, Roy B., Jr.; and Perry, Milton A., to Eastman Kodak Company. Process for preparing pimelic acid and a 2,2- dialkyl-1,3-propanediol. 3,468,927, 9-23-69, Cl. 260-468.
Duke, Vernon: *See—*
Wise, Ralph H., 3,426,386.
Dukek, William G.; and Wakeford, Brian R., to Esso Research and Engineering Company. Device for measuring the effect of surface active materials on emulsified water retention by jet fuels. 3,478,578, 11-18-69, Cl. 73-61.1
Dulait, Jean Eugene Julien. Soot blowing devices. 3,477,085, 11-11-69, Cl. 15-317.
Dulaney, John E. Golf cart. 3,459,434, 8-5-69, Cl. 280-138.
Dulger, Viktor, to Chemie- und Filter G.m.b.H. Injector. 3,421,738, 1-14-69, Cl. 259-4.
Dulin, Francis H.: *See—*
Rea, Robert F.; and Dulin, Francis H.,3,441,487.
Dulin, Gerald F., to International Rectifier Corporation. Plastic coated semiconductor device for high-voltage low-pressure application. 3,483,440, 12-9-69, Cl. 317-234.
Dulin, Gerald F.: *See—*
Parrish, Frank W.; and Dulin, Gerald F.,3,471,767.
Duling, Irl N., to Sun Oil Company. Polyesters. 3,436,376, 4-1-69, Cl. 260-75.
Duling, Irl N.; Schneider, Abraham; and Driscoll, Gary L., to Sun Oil Company. Adamantane polyesters. 3,467,627, 9-16-69, Cl. 260-75.
Dulis, Edward J., to Crucible Inc., mesne. Stainless steel bars and rods of improved cross-sectional hardness uniformity. 3,476,616, 11-4-69, Cl. 148-12.
D'Ulisse, Lucille:*See—*
D'Ulisse, William; and D'Ulisse, Lucille,3,477,453.
D'Ulisse, William; and D'Ulisse, Lucille. Net adaptor for converting umbrella to shelter from insects. 3,477,453, 11-11-69, Cl. 135-2.
Dull, Thomas J.; and Goldmeyer, Clifford, to Greeno, J. R., Company, The. Apparatus for forming wire stock. 3,464,463, 9-2-69, Cl. 140-105.
Dullens, Wilhelmus J. M. M.: *See—*
Zijp, Jan W. H.; and Dullens, Wilhelmus J. M. M.,3,426,106.
Dumanchin, Roger, to Compagnie Generale d'Electricite. Laser deflector having a non-uniform field applied to an electro-optic crystal. 3,461,402, 8-12-69, Cl. 331-94.5
Dumanoir, Jean L.: *See—*
Doll, Henri Georges; and Dumanoir, Jean L.,3,466,533.
Dumartin, Serge; Oksengorn, Boris; Tobin, Marvin; and Vodar, Boris, 33% to Centre National de la Recherche Scientifique, and 67% to Perkin-Elmer Corporation. Means for obtaining the inverted raman spectrum of a substance to be studied. 3,469,920, 9-30-69, Cl. 356-75.
Dumas, Donald N. Multiple pen holder. 3,442,595, 5-6-69, Cl. 401-35.
Dumas, Raymond E.; Williams, Harry L., Jr.; and Wood, Donald B., to United States of America, Army. Primary cell. 3,450,569, 6-17-69, Cl. 136-100.
Dumers, Dewey M., to GAF Corporation. Color oscillograph recording paper containing a color developing agent. 3,486,890, 12-30-69, Cl. 96-22.
Dumesnil, Maurice E.: *See—*
Pilling, David J.; and Dumesnil, Maurice E.,3,432,405.
Dumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of unsaturated graft copolymers from isobutylene polymers. 3,458,599, 7-29-69, Cl. 260-879.
Dumire, Leo G.: *See—*
Nevin, John J.; and Dumire, Leo G.,3,461,499.
Du Mond, Virgil R.; and Lister, James M. Animal and pet food bowl. 3,441,003, 4-29-69, Cl. 119-61.
Dumont-Fillon, Jacques, to Institut de Recherches de La Siderurgie Francaise. Apparatus for the continuous casting of metal. 3,452,809, 7-1-69, Cl. 164-278.
Dumont-Fillon, Jacques, to Institut de Recherches de la Siderurgie Francaise. Metal casting apparatus with electromagnetic nozzle. 3,463,365, 8-26-69, Cl. 222-544.
Dumont-Fillon, Jacques, to Institut de Recherches de la Siderurgie Francaise. Apparatus for continuous metal casting. 3,482,620, 12-9-69, Cl. 164-278.
Dumont, Georges L.: *See—*
Zakheim, Jacques; Dumont, Georges L.; and Dunand, Francois M.,3,453,625.
Dumont, Marcel, to Virola S.A. Collet. 3,430,435, 3-4-69, Cl. 58-115.
Dumont, Marcel; and Fahndrich, Gabriel. Assembly for securing the inner end of a coiled balance spring to a balance staff. 3,481,139, 12-2-69, Cl. 58-115.
Dumont, Pierre: *See—*
Trimbach, Honore; and Dumont, Pierre,3,431,098.
Dumont, Thomas P.; and Buckley, Herman T. Ester of an aliphatic dihydroxy monocarboxylic acid and a textile material treated therewith. 3,441,953, 4-29-69, Cl. 117-139.5
Dumont-Fillon, Jacques: *See—*
Meysson, Nicolas; and Dumont-Fillon, Jacques,3,464,008.
Vayssiere, Pierre; and Dumont-Fillon, Jacques,3,463,631.
Dumore Company, The: *See—*
Steibel, James P., 3,475,972.
Dun-Hot, Inc.: *See—*
Dunn, Richard P., 3,425,845.
Maier, Gary W.; and Jehn, David H., 3,445,988.
Dunand, Francois M.: *See—*
Zakheim, Jacques; Dumont, Georges L.; and Dunand, Francois M.,3,453,625.
Dunay, Michael: *See—*
Costanza, John R.; and Dunay, Michael,3,480,016.
Dunbar, Joseph E., to Dow Chemical Company, The. Process for the production of sulfenamides. 3,449,323, 6-10-69, Cl. 260-239.
Dunbar, Joseph E.; and Rogers, Joan H., to Dow Chemical Company, The. 1,4-And 1,2-bis(substituted sulfonylthiomethyl) cyclohexane. 3,462,472, 8-19-69, Cl. 260-453.
Dunbar Manufacturing Co., Inc.: *See—*
Goode, Raymond A., 3,450,539.
Dunbar, Sidney G.; and Hullhorst, William B., to Owens-Corning Fiberglas Corporation. Method of packaging compressible material. 3,458,966, 8-5-69, Cl. 53-24.
Duncan, Alexander. Tractor cabs. 3,436,118, 4-1-69, Cl. 296-102.
Duncan, Alfred D. Connector for insulation covered conductors. 3,487,354, 12-30-69, Cl. 339-98.
Duncan, Charles S.; and Scuro, Samuel J., to Westinghouse Electric Corporation. Thermoelectric element having a diffusion bonded coating. 3,444,006, 5-13-69, Cl. 136-230.
Duncan, Christopher R., to Powrmatic Limited. Gas burners. 3,469,790, 9-30-69, Cl. 239-402.5
Duncan, David M., to Fairchild Camera and Instrument Corporation. Transformerless transistor output amplifier. 3,437,945, 4-8-69, Cl. 330-13.
Duncan, Edward A., Jr.: *See—*
Gable, Charles M.; Duncan, Edward A., Jr.; and Freitas, Ernest Robert,3,475,318.
Duncan Electric Company, Inc.: *See—*
Brown, Robert A., 3,448,624.
Brown, Robert A.; and Reiff, Lewis D., Jr., 3,473,390.
Brown, Robert Alan, 3,486,111.
Dooley, Kerry A.; Rockhill, William E.; Swope, David L.; Thomas, Earl F.; and van Fossen, Ralph H., Jr., 3,467,877.
Friend, Harley L.; and Cattell, Robert L., 3,457,494.
Milligan, James W., 3,434,084.
Duncan, Frederic James: *See—*
Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William,3,433,774.
Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William,3,466,182.
Duncan, Frederick H., to Deering Milliken Research Corporation. Boil control. 3,461,467, 8-19-69, Cl. 8-158.
Duncan, George R., Sr. Grape harvester. 3,426,517, 2-11-69, Cl. 56-330.
Duncan, Glen R.; and Wertz, William H., to Litton Systems, Inc. Time slot generator. 3,478,273, 11-11-69, Cl. 328-63.
Duncan, Golda A.; and Aleson, Robert N., to Lorraine Industries, Inc., mesne. Sequential play phonograph. 3,468,546, 9-23-69, Cl. 274-9.
Duncan, Gordon W.; and Lednicer, Daniel, to Upjohn Company, The. Method for controlling birds and rodents. 3,483,293, 12-9-69, Cl. 424-274.
Duncan, Jack K.: *See—*
Ralke, William C.; and Duncan, Jack K.,3,469,145.
Duncan, Joe S.: *See—*
Elmer, Otto C.; and Duncan, Joe S.,3,471,423.
Duncan, Lloyd P.: *See—*
Heimann, Bernard; Duncan, Lloyd P.; and Oberg, Nathan,3,482,593.
Duncan, Lloyd P., to Zero Manufacturing Company. Self-cleaning valve for vacuum milking system. 3,479,008, 11-18-69, Cl. 251-297.
Duncan, Norman D., to General Motors Corporation. Molding compositions comprising isotactic polypropylene blend, filler and metallic soap. 3,431,225, 3-4-69, Cl. 260-23.
Duncan Parking Meter Corporation: *See—*
Fathauer, George H., 3,438,031.
Duncan, Paul J.; and Hayes, Richard C., to Ludlow Typograph Company. Vibratory stamping tool. 3,436,950, 4-8-69, Cl. 72-450.
Duncan, Thomas W., to Design and Manufacturing Corporation. Gasket for front opening dishwashing machines. 3,443,719, 5-13-69, Cl. 220-46.

Duncan, William Joseph; Fisher, Charles Frank; Moye, Frank Houston; and Piercy, Samuel Allen, to Du Pont de Nemours, E. I., and Company. Process for spinning mixed filaments. 3,457,341, 7-22-69, Cl. 264-177.

Duncanson, Leonard Andrew; and Ehrlich, Hans Werner Walter, to Imperial Chemical Industries Limited. Production of acetic acid. 3,459,796, 8-5-69, Cl. 260-533.

Dunckel, Bruce Patten, to Lithonia Lighting, Inc., mesne. Self-locking latch. 3,420,995, 1-7-69, Cl. 240-78.

Duncker, Michiel J.: *See—*
Dost, Sieme; and Duncker, Michiel J.,3,447,213.

Dundas, Ernest W.; and Walker, Stanley P., to Emerson Electric Co. Method for encapsulating dynamoelectric machine stators using a conformable sleeve. 3,436,811, 4-8-69, Cl. 29-596.

Dundee Cement Company: *See—*
Ostberg, Werner; and Patzias, Terry, 3,437,329.

Dundel, Morris; and Eckhardt, Daniel J., to Universal Oil Products Company. Amides of polyhalopolyhydromethanonaphthalenedicarboxylic acids. 3,474,136, 10-21-69, Cl. 260-514.

Dundon, John Peter: *See—*
Herbes, William Frank; and Dundon, John Peter,3,442,905.

Dundon, John Peter, to American Cyanamid Company. 2-Carboxyethoxymethyl-tris [2-(N-methylol- carbamoyl)-ethoxymethyl]methane. 3,465,036, 9-2-69, Cl. 260-534.

Dundr, Josef. Long span structures. 3,429,091, 2-25-69, Cl. 52-639.

Dunegan, Harold L.; and Tatro, Clement A., said Tatro assor to said Dunegan. Peak pressure measurement by acoustic emission. 3,447,378, 6-3-69, Cl. 73-396.

Dunfee, James D. Hydrostatic bearing unit. 3,476,444, 11-4-69, Cl. 308-3.5

Dunfield, Theodore Elmer: *See—*
Smit, Hendrik; and Dunfield, Theodore Elmer, deceased,3,434,994.

Dunger, Alfred: *See—*
Stabeler, Eberhard; and Dunger, Alfred,3,469,418.

Dunglinson, Colin; and Lyerly, William M., du Pont de Nemours, E. I., and Company. Water-bearing explosive containing nitrogen-base salt and method of preparing same. 3,431,155, 3-4-69, Cl. 149-47.

Dunham, Kenneth Royal, to Eastman Kodak Company. Heat-sensitive recording element and composition. 3,460,964, 8-12-69, Cl. 117-36.9

Dunham, Leroy A.; and Belanger, William J., to Celanese Coatings Company. Low film primer and resins utilized therein. 3,445,411, 5-20-69, Cl. 260-22.

Dunham, Robert W.: *See—*
Layton, Beryl W.; and Dunham, Robert W.,3,480,890.

Dunham, Robert W.; and Vyskocil, Charles D., to Square D Company. Circuit breaker with trip indicator. 3,443,258, 5-6-69, Cl. 337-79.

Dunham-Bush, Inc.: *See—*
Crosthwait, David N., Jr., 3,478,625.
Decker, Alan S.; and Peterson, Hans P., 3,453,838.
O'Neil, Eugene E., 3,438,218.
Peterson, Hans P., 3,460,354.
Reichelderfer, Charles A., 3,481,321.

Dunholter, Harry E., to Owens-Illinois, Inc. Fatty acid alkanolamide and alkanolamine coating for fiberboard and container formed therefrom. 3,436,247, 4-1-69, Cl. 117-95.

Dunigan, Thomas E.: *See—*
Seals, William O.; Dunigan, Thomas E.; and Picard, Jean P.,3,431,153.

Dunipace, Donald W.: *See—*
Mc Cown, William E.; Gladieux, Norman K.; and Dunipace, Donald W.,3,476,539.

Dunkel, Eckhard; and Thiele, Wolfgang, to Metallgesellschaft Aktiengesellschaft. Process for improving grain structure of aluminum silicon alloys. 3,466,170, 9-9-69, Cl. 75-148.

Dunkel, Morris, to Universal Oil Products Company. Acyl and hydroxy or alkanoyloxy-4,7-methanoindene derivatives. 3,445,508, 5-20-69, Cl. 260-488.

Dunkel, Morris; and Yafuso, Masao, to Universal Oil Products Company. Method for color improving 5,6,7,8,9,9-hexahalo-1, 2, 3, 4, 4α, 5, 8, 8α boxylic anhydride by treatment with a lower monohydroxylalyl alcohol. 3,446,822, 5-27-69, Cl. 260-346.3

Dunkelis, Evald, to GPE Controls, Inc. Pilot valve with bellows valve body. 3,454,039, 7-8-69, Cl. 137-491.

Dunkelis, Evald. Pressure responsive valve device. 3,454,040, 7-8-69, Cl. 137-491.

Dunkle, David E.: *See—*
Bramley, Hal F.; Chiplis, Felix A.; Dunkle, David E.; and Taivalkoski, George W.,3,452,572.

Dunkle, Richard B., to Philco-Ford Corporation. Metallization of silicon semiconductor devices for making ohmic connections thereto. 3,453,501, 7-1-69, Cl. 317-234.

Dunklee, Donovan M., to Walwood Products, Inc. Swiveling clamp for hoses and the like. 3,419,942, 1-7-69, Cl. 24- 019.

Dunkley, David C. Planar moving loading device. 3,462,032, 8-19-69, Cl. 214-83.24

Dunlap, Charles K., Jr.; and Fink, James A., to Sonoco Products Company. Method of producing a spirally wound tube. 3,468,733, 9-23-69, Cl. 156-190.

Dunlap, Charles K., Jr.; Johnson, Walter E.; and Harper, William M., to Sonoco Products Company. Combination pallet and container. 3,477,631, 11-11-69, Cl. 229-14.

Dunlap, Charles K., Jr.: *See—*
Cunningham, Mc Cleery B.; and Dunlap, Charles K., Jr.,3,451,433.
Cunningham, McCleery B.; and Dunlap, Charles K., Jr.,3,429,522.
Cunningham, McCleery B.; and Dunlap, Charles K., Jr.,3,455,521.

Dunlap, Henry F., to Atlantic Richfield Company. Modification of chimney geometry produced by contained nuclear explosives. 3,470,953, 10-7-69, Cl. 166-247.

Dunlap, Jerald V.; and Morrison, James L. D. Coupling and seal apparatus for hoses and other tubular conduits for fluids. 3,427,053, 2-11-69, Cl. 285-379.

Dunlap, Laurel E. Flexible guide for cutting tools. 3,456,555, 7-22-69, Cl. 90-12.

Dunlap, Laurel E. Tool guide and movable support. 3,469,611, 9-30-69, Cl. 144-144.

Dunlap, Laurel E. Tool guide support and saw guard. 3,476,161, 11-4-69, Cl. 144-144.

Dunlap, Laurel E. Backlash brake for gear drive. 3,485,109, 12-23-69, Cl. 74-409.

Dunlap, Peggy M.: *See—*
Brandner, Carl F.; Dunlap, Peggy M.; Foster, William R.; and Hurd, Billy G.,3,437,141.
Foster, William R.; Hurd, Billy G.; and Dunlap, Peggy M.,3,437,140.

Dunlap, Peggy M.; Brandner, Carl F.; and Townsend, Harold L., to Mobil Oil Corporation. Adjusting salinity to achieve low interfacial tension between aqueous and hydrocarbon phases. 3,467,190, 9-16-69, Cl. 166-252.

Dunlap, Peggy M.; and Foster, William R., to Mobil Oil Corporation. Waterflooding employing surfactant solution. 3,468,377, 9-23-69, Cl. 166-274.

Dunlap, Robert B. Control apparatus. 3,457,865, 7-29-69, Cl. 103-25.

Dunlap, Robert B.; Peterson, Evald O.; and Von Schoppe, Bertram A., to Compo Industries, Inc. Automatic roughing machine. 3,449,933, 6-17-69, Cl. 69-6.5

Dunlap, Robert B.: *See—*
Carey, Richard J.; and Dunlap, Robert B.,3,434,170.

Dunlap, Samuel G.; and Komsa, Sasha, to Caterpillar Tractor Company. Bolt head marking device. 3,472,102, 10-14-69, Cl. 81-53.

Dunlap, Samuel G.; and Komsa, Sasha. Bolthead marking device. 3,486,402, 12-30-69, Cl. 81-52.4

Dunlap, Wayne A.; Milberger, Lionel J.; and Snow, Tommy L. Gyratory compactor. 3,461,717, 8-19-69, Cl. 73-84.

Dunlap, William, Jr.; Koretzky, Herman; and Mc Cabe, Harry D., to International Business Machines Corporation. Coating method. 3,446,657, 5-27-69, Cl. 117-160.

Dunlavy, John Harold, Jr., to Antenna Research Associates, Inc. Directional broad band antenna array. 3,424,984, 1-28-69, Cl. 325-384.

Dunlop, Andrew P.; and Sherman, Edward, to Quaker Oats Company, The. Process for production of tetrahydrofran polymers. 3,454,652, 7-8-69, Cl. 260-6.5

Dunlop, Arthur K.: *See—*
Blytas, George C.; Bell, Edward R.; and Dunlop, Arthur K.,3,449,240.

Dunlop Company Limited, The: *See—*
Adamek, Stephen; and Wood, Bertie B. J., 3,427,285.
Adamek, Stephen; and Wood, Bertie B. J., 3,439,062.
Bennett, John V.; Smith, John L.; and Berry, Peter W., 3,458,343.
Dallois, Robert; Robic , Roger; and Dufour, Gisele, 3,462,128.
Davis, John Walter, 3,467,442.
Davis, John Walter, 3,470,746.
Dewar, Douglas, 3,425,524.
Dewar, Douglas, 3,469,662.
French, Tom, 3,482,616.
Goy, Ronald S., 3,425,209.
Haines, Robert C.; and Pridgeon, Royce, 3,428,314.
Haines, Robert C., 3,428,315.
Haines, Robert C.; and Corish, Patrick J., 3,432,165.
Jones, Thomas E. O., 3,423,354.
Knights, Richard Northam, 3,467,228.
Madge, Evelyn W., 3,483,062.
Marriott, Anthony G., 3,475,197.
Mercer, George Kenneth, 3,485,267.
Moore, Edwin Barclay, 3,479,441.
Osborne, Alan P., 3,433,664.
Reed, Alun John, 3,475,544.
Seip, Hermann, 3,478,848.
Smith, John L.; and Singer, Reginald D., 3,423,356.
Warson, Henry; and Reed, George Andrew, 3,431,226.

Woodhams, Raymond T., 3,474,077.
Wray, Edward, 3,459,284.
Dunlop, John: *See*—
Ashworth, Gordon; and Dunlop, John,3,420,923.
Dunlop Rubber Company Limited: *See*—
Brooke, Thomas Andrew; and Robinson, Peter Michael, 3,471,352.
Butler, Henry James, 3,438,465.
Dowell, Frederick Sidney, 3,447,641.
Fletcher, Henry Raymond, 3,480,496.
Harrison, Stanley R.; and Broughton, Robert M., 3,454,280.
Hurst, Norman Ashcroft; Gray, Thomas Edward Horace; and Jones-Hinton, James, 3,464,099.
Pounder, Donald Whitworth; and Axe, Roy, 3,483,073.
Singer, Reginald D.; and Smith, John L., 3,444,123.
Dunlop Tire and Rubber Corporation: *See*—
Brierley, Thomas Albert, 3,432,888.
Dunlop, William R.: *See*—
Broadhead, Ronald.; and Dunlop, William R.,3,463,699.
Broadhead, Ronald L.; and Dunlop, William R.,3,422,041.
Broadhead, Ronald L.; and Dunlop, William R.,3,441,527.
Dunlope, Kenneth H.: *See*—
Bennett, Ronald W.; and Dunlope, Kenneth H.,3,442,134.
Dunn, Alexander; and Livingston, George Turner, to Burroughs Corporation. Document positioning and eject device. 3,450,401, 6-17-69, Cl. 271-3.
Dunn, Alexander; Livingston, George Turner; and Corr, Albert J., to Burroughs Corporation. Encoding apparatus associated with a calculating machine. 3,466,429, 9-9-69, Cl. 235-60.11
Dunn, Clarence L.: *See*—
Freitas, Ernest R.; Dunn, Clarence L.; and Zarker, Keith E.,3,463,603.
Dunn, Edward D., Jr. Precision slide rule computing mechanism. 3,468,478, 9-23-69, Cl. 235-71.
Dunn, Elman R., to Landis Tool Company. Work positioning apparatus for grinding machine. 3,425,169, 2-4-69, Cl. 51-118.
Dunn, Elman R.; and Loofboro, Verne L., to Landis Tool Company, mesne. Disc grinder. 3,458,957, 8-5-69, Cl. 51-118.
Dunn, Fred H.: *See*—
Cosby, Wayne, 3,444,368.
Dunn, George L.: *See*—
Chow, Alfred W.; and Dunn, George L.,3,468,950.
Dunn, Grace Thompson. Eyeglass frame. 3,441,341, 4-29-69, Cl. 351-41.
Dunn, James L., Jr., to Dow Chemical Company, The. Drying and recovery process. 3,466,757, 9-16-69, Cl. 34-22.
Dunn, James L., Jr., to Dow Chemical Company, The. Vapor degreasing apparatus and process. 3,471,372, 10-7-69, Cl. 202-170.
Dunn, James W.: *See*—
Mahlstedt, Henry; Dunn, James W.; Couch, Robert W.; and Seyb, Edgar J., Jr.,3,461,048.
Dunn, John L.: *See*—
Burke, John F.; Scudder, Kenneth R.; and Dunn, John L.,3,454,023.
Dunn, John R.: *See*—
Darcy, Jules; and Dunn, John R.,3,431,231.
Dunn, Joseph M.: *See*—
Kent, Robert L.; Badessa, Rosario S.; Barus, Carl; Dunn, Joseph M.; Glaser, Raymond Arthur; and Johnson, Leonard B.,3,477,666.
Dunn, Joseph S., to Eastman Kodak Company. Sensitized silver halide systems with activated nonlabile selenium compounds. 3,442,653, 5-6-69, Cl. 96-108.
Dunn, Larry K., to Piqua Machine & Mfg. Co. Pressure responsive switch unit. 3,452,171, 6-24-69, Cl. 200-83.
Dunn, Lloyd G., to Aluminum Company of America. Metal forming. 3,479,979, 11-25-69, Cl. 113-121.
Dunn, Lloyd G.; and Hrovath, John W., deceased0 (by Hrovath, Linda M.; sole heir), to Aluminum Company of America. Container opening device. 3,441,169, 4-29-69, Cl. 220-54.
Dunn, Lyman D.; and Gembicki, Stanley, to Marlan Company. Contour cutting attachment for band saw. 3,473,580, 10-21-69, Cl. 143-26.
Dunn, Michael J., to Kohnstamm. H., & Co., Inc. Color concentrates. 3,462,390, 8-19-69, Cl. 260-41.
Dunn, Richard P., to Dun-Hot, Inc. Popcorn package. 3,425,845, 2-4-69, Cl. 99-171.
Dunn, Robert O.; and Pecci, Rudolph. Emergency lighting system employing dual filament lamps and changeover relays. 3,486,068, 12-23-69, Cl. 315-87.
Dunn, Ronald L. Method and apparatus for removing foodstuffs from cooking receptacles. 3,442,229, 5-6-69, Cl. 107-54.
Dunn, Thomas A., to Motorola, Inc. Unitized assembly plastic encapsulation providing outwardly facing nonplastic surfaces. 3,444,309, 5-13-69, Cl. 174-52.
Dunn, Thomas J. Mowing apparatus. 3,472,006, 10-14-69, Cl. 56-25.
Dunn, Vernon E.; and Domenico, Anthony J., to Melabs,. Microstrip junction circulator wherein the ferrite body is disposed on the dielectric slab. 3,467,918, 9-16-69, Cl. 333-1.1
Dunn, Wendell E.; Lucas, Ned L.; and Price, Frank B., to American Factors Associates, Limited. Drive system for rotating equipment. 3,455,176, 7-15-69, Cl. 74-129.
Dunn, William R., to Honeywell Inc. Pressure regulator valve with reversed coil spring. 3,459,215, 8-5-69, Cl. 137-505.25
Dunn, William R., to Honeywell Inc. Double valve head. 3,470,911, 10-7-69, Cl. 137-625.64
Dunnavant, William R.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,433,818.
Dunne, Brian B., to Gulf General Atomic Incorporated, mesne. Shock wave optically pumped laser. 3,451,008, 6-17-69, Cl. 331-94.5
Dunnebier, Kurt: *See*—
Neunkirchen, Max, 3,435,739.
Dunnebier, Kurt: *See*—
Winkler, Richard; and Dunnebier, Kurt,3,431,842.
Winkler, Richard; and Dunnebier, Kurt,3,460,444.
Dunnell, Alan Keith: *See*—
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew,3,451,209.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; and Hooper Clive Williams,3,452,533.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew,3,452,534.
Dunnican, William O.; and Larisch, Richard W., to Bell Telephone Laboratories, Incorporated. Signal time compression system. 3,424,899, 1-28-69, Cl. 235-181.
Dunnill, John H.: *See*—
Ramsey, Keith W.; and Dunnill, John H.,3,420,804.
Dunning, John W., Jr.: *See*—
Hsu, Yih-Yun; and Dunning, John W., Jr.,3,453,462.
Baer, Sheldon; Toth, Michael J.; and Dunning, John W.,3,451,828.
Dunning, Robert A.: *See*—
Humphrey, Loren K.; Dunning, Robert A.; and Layman, Curtis A.,3,423,040.
Dunning, Robert M., to Hoerner-Waldorf Corporation. Tape holding roll. 3,448,852, 6-10-69, Cl. 206-52.
Dunning, Robert William; Joshi, Kamalakant Krishnarao; Oldham, Alan Roger; and Willott, Michael Christopher Kenneth, to Imperial Chemical Industries Limited. Hydrogenation with a zerovalent platinum or palladium catalyst. 3,463,830, 8-26-69, Cl. 260-683.9
Dunning, William S. Loudspeaker assembly with loudspeaker supported by vibratory diaphragm. 3,430,728, 3-4-69, Cl. 181-31.
Dunnington, Gordon B.; and Fields, Reuben T., to Du Pont de Nemours, E. I., and Company. Roll orienting process. 3,470,288, 9-30-69, Cl. 264-210.
Dunod, Jean, to Dunod, Qualitex & Cie. Non-rotating tool holder or carrier for a vibrating tool. 3,438,275, 4-15-69, Cl. 74-86.
Dunod, Qualitex & Cie: *See*—
Dunod, Jean, 3,438,275.
Dunogues, Jacques Paul: *See*—
Bazouin, Andre Rene Marcel; Dunogues, Jacques Paul; and Lefort, Marcel Joseph Celestin,3,472,888.
Dunogues, Jacques Paul; Lefort, Marcel Joseph Celestin; and Puthet, Robert Raphael, to Rhone-Poulenc S.A. Process for the disproportionation of chlorosilanes. 3,445,200, 5-20-69, Cl. 23-366.
Duns, John, to Smith & Nephew Plastics Limited. Process for laminating thermoplastic particles to a surface. 3,442,736, 5-6-69, Cl. 156-85.
Dunseth, Maria G.; Legal, Casimer C., Jr.; and Veltman, Preston L., to Grace, W. R., & Co. Process for mining and refining phosphorus. 3,437,379, 4-8-69, Cl. 299-5.
Dunseth, Maria G.; and Salutsky, Murrell L., 1/2 to Grace, W. R., & Co. 1/2 to United States of America, Interior, mesne. Method of precipitating potash from a phosphate mixture. 3,421,877, 1-14-69, Cl. 71-36.
Dunson, Philip M. Balance game apparatus. 3,424,455, 1-28-69, Cl. 273-1.
Dunston, Robert D.; Whitehurst, Gerald E.; and Saletzki, Jacob S., to Caterpillar Tractor Company. Crankshaft thrust plate. 3,429,623, 2-25-69, Cl. 308-23.
Dunton, John T., to Dresser Industries, Inc. Fire hydrant. 3,439,938, 4-22-69, Cl. 285-2.
Dunton, John T., to Dresser Industries, Inc. Fire hydrant. 3,475,978, 11-4-69, Cl. 74-89.15
Dunworth, William Paul, to Du Pont de Nemours, E. I., and Company. Thiazole-pyrazolone azo yellow dyes. 3,426,010, 2-4-69, Cl. 260-158.
Duo-Vend Corporation: *See*—
Carter, Claud W., Jr., 3,439,834.
Dupaco, Incorporated: *See*—
Cohen, Leah, 3,467,077.
Dupage Metal Products Company: *See*—
Jorgensen, Leif G., 3,450,589.
Dupas, Lucien: *See*—
Consoli, Terenzio; Dupas, Lucien; and Leroy, Jean,3,425,902.
Duperron, Wilfred J. Fishing line casting device. 3,468,051, 9-23-69, Cl. 43-19.

Dupeuble, Paul; and Seguy, Pierre Marie Leon, to Sandages Injections Forages Entreprise P. Bachy. Apparatus for automatically injecting mixtures into the ground. 3,484,082, 12-16-69, Cl. 259-153.

Dupeux, Cyprien Jean; and Belaieff, James, to North American Philips Company, Inc. Machine for washing and centrifuging laundry. 3,435,639, 4-1-69, Cl. 68-24.

Dupieux, Jacques Georges; and Pirotte, Alfred, to International Standard Electric Corporation. PCM switching matrix. 3,439,124, 4-15-69, Cl. 179-15.

Duplan Corporation, The: *See—*
Strub, Henry Michael, Jr., 3,453,817.
Wood, William A., Jr., 3,429,219.

Duplantis, John C.: *See—*
Alexander, Alvis H.; Duplantis, John C.; and Strong, George T.,3,420,305.

Du Plessis, Louis A., to Dow Chemical Company, The. Anthroic acids and metal anthroate salts used as photoconductors in electrophotographic imaging methods. 3,440,044, 4-22-69, Cl. 96-1.

du Plessix, Michel Guy Marie Jochaud, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrochemical generator of low collision impact energy. 3,451,850, 6-24-69, Cl. 136-6.

Duplex, Inc.: *See—*
Matthews, Walter T., 3,480,227.

Du Pont, Anthony A.; Harris, Edward N.; and Schroeter, Thomas T., to Garrett Corporation, The. Gas turbine powerplant with means for cooling compressed air. 3,486,340, 12-30-69, Cl. 60-262.

DuPont, Anthony W., Jr.: *See—*
Adams, Elizabeth F.; and DuPont, Anthony W., Jr.,3,477,444.

Du Pont de Nemours, E. I., and Company: *See—*
Adelman, Robert L., 3,442,841.
Adelman, Robert L., 3,444,148.
Aftandilian, Victor D., 3,458,531.
Ahles, Lavern James; and Iyengar, Yathiraja, 3,423,265.
Ahles, Lavern James; and Sherbeck, Leander Adair, 3,426,632.
Aho, Charles Elmer, 3,422,045.
Ahramjian, Leo; and Yin, Theodore Peng-Jung, 3,467,572.
Albert, Richard James, 3,471,099.
Aldrich, Paul E., 3,428,643.
Alleavitch, Jack, 3,450,664.
Alles, Francis Peter, 3,458,311.
Alles, Francis Peter, 3,475,171.
Alsup, Richard Glenn; and Leverett, Glenn Frederick, 3,477,993.
Anderson, Howard Irvine, 3,426,691.
Andreades, Sam; and England, David C., 3,423,465.
Andreades, Sam, 3,431,184.
Andreades, Sam; and England, David C., 3,455,881.
Andreades, Sam, 3,475,298.
Andrew, Bertha M.; and Blumenberg, Karl E., 3,459,575.
Angelo, Rudolph J., 3,420,795.
Angelo, Rudolph J., 3,424,718.
Angelo, Rudolph J., 3,437,636.
Angelo, Rudolph J.; and Berr, Charles E., 3,449,296.
Anton, Anthony, 3,457,325.
Antonelli, Joseph A.; and Zanger, Murray, 3,446,761.
Appelbaum, Arthur, 3,460,982.
Arkens, Charles T., 3,427,294.
Armour, Albert G.; and Hoegger, Erhard F., 3,424,835.
Armstrong, Robert K.; and von Trebra, Richard L., Jr., 3,457,187.
Arnold, Harold E., 3,457,340.
Auld, Joseph Robert, 3,443,630.

Baber, Ernest G., 3,422,796.
Bacon, Osborne C.; and Cupp, Samuel B., 3,431,132.
Ballard, Kermit H.; and Hoffman, Lewis C., 3,450,545.
Ballou, Jack W.; and Levy, Martin R., 3,485,708.
Balthis, Joseph H., Jr., 3,423,320.
Balthis, Joseph H., Jr., 3,449,073.
Balthis, Joseph H., Jr., 3,450,491.
Barbaras, Glen D., 3,455,682.
Barker, Arthur Frederick, 3,450,316.
Barry, Frederick Peter, 3,442,836.
Bartlett, Philip Lee; and Biswell, Charles Bedford, 3,428,713.
Bartlett, Philip Lee, 3,472,894.
Barton, Jerry M., 3,478,072.
Bauer, Albert W.; and Gorski, Robert A., 3,431,211.
Bauer, Albert W.; and Gorski, Robert A., 3,477,952.
Bauer, Carl Robert, 3,422,126.
Bauriedel, Friedrich, 3,482,983.
Baxter, Warren Nesmith; and Robinson, Ivan Maxwell, 3,472,830.
Bechtold, Max F.; and Fawcett, Frank Shumate, 3,429,845.
Bechtold, Max F.; and Brasen, Wallace R., 3,429,846.
Beck, Robert Haun, 3,431,846.
Beeman, Robert H., 3,477,970.
Berezin, Gilbert H., 3,449,369.
Bergmann, Oswald R.; Buchwald, Joseph; and Cowan, George R., 3,439,408.
Bergmann, Oswald R., 3,459,515.
Bergna, Horacio E., 3,457,051.
Bernard, Robert A.; Dove, William T.; and Smith, Julian C., 3,442,026.
Berry, Walter Cunningham, Jr., 3,421,381.
Bertrand, Louis; and McCarthy, Harry E., 3,462,086.
Bigelow, John Howard, 3,449,125.
Bissot, Thomas C., 3,487,036.
Bither, Tom A., Jr., 3,482,939.
Blair, Larry Keene; and Grot, Walther Gustav, 3,454,633.
Blake, Ralph Kingsley, 3,464,822.
Blanchard, Elwood P., Jr., 3,439,031.
Blanchard, Elwood P., Jr., 3,470,111.
Blanchard, Elwood P., Jr., 3,470,137.
Blank, Herbert, 3,442,655.
Blatz, Philip Strubing; and Maloney, Daniel Edwin, 3,441,545.
Blatz, Philip Strubing, 3,449,308.
Blatz, Philip Strubing, 3,457,243.
Blatz, Philip Strubing; and Maloney, Daniel Edwin, 3,457,328.
Blume, Roe Calvin, 3,432,548.
Blume, Roe C., 3,471,454.
Bodycot, Irvin Francis, 3,487,062.
Booy, Max L., 3,470,913.
Booy, Max Lorenz; Coe, Benjamin Franklin; and Stutler, Stephen Charles, 3,433,055.
Borchardt, Hans J., 3,437,432.
Bosley, David Emerson, 3,454,460.
Boswell, George A., 3,433,813.
Boswell, George A., 3,470,216.
Bosworth, Robert T., 3,474,081.
Bottomley, Charles G., 3,422,143.
Bottorf, Donald Thomas; and Moore, Edward Joseph, 3,476,846.
Boughton, Donald C., 3,436,460.
Bowen, Griffith, 3,437,552.
Bowman, John Michael, 3,459,694.
Bowman, Warren; Roberts, Dennis M.; and Sellger, Paul G., 3,476,694.
Boyle, Donn George; and Osborn, Robert Otto, 3,467,142.
Bragaw, Chester G., Jr., 3,471,276.
Bragaw, Chester Griswold, Jr.; and Washburn, Robert Latham, 3,458,615.
Bragaw, Chester Griswold, Jr., 3,470,047.
Brake, Loren D., 3,471,563.
Brantley, Richard K., 3,482,020.
Brasen, Wallace Raymond; and Cleaver, Charles Spencer, 3,467,635.
Brasure, Donald Eugene, 3,475,248.
Braun, Robert A., 3,433,819.
Braun, Robert A., 3,467,674.
Braun, Robert A., 3,476,771.
Breen, Alvin L.; and Lauterbach, Herbert G., 3,421,194.
Brehmer, Thorwill; and Pomeroy, Chester M., 3,485,283.
Breton, Ernest J.; Eustice, Albert L.; and McCauley, Harry J., 3,480,460.
Brill, Harold C., 3,471,361.
Brill, Harold C.; Gulledge, Hugh C.; and Ramsay, Howard L., 3,483,068.
Brinker, Keith C., 3,427,265.
Bristol, John E., 3,487,060.
Bristol, John E., 3,487,061.
Brixner, Lothar H., 3,471,258.
Brixner, Lothar H., 3,472,777.
Buchovecky, Kalman E.; and Patton, Wilbur L., 3,478,136.
Buehler, Oscar R.; Keister, George P.; and Long, Joseph F., 3,461,167.
Bugosh, John; and Hoffman, Lewis C., 3,443,973.
Burt, Cortland R., 3,445,235.
Burt, James G., 3,455,835.
Busot, Jesus C., 3,487,049.
Busse, Warren F., 3,454,676.
Busse, Warren F., 3,468,843.
Busse, Warren Froemming; and Bruner, Walter Martin, 3,485,793.
Bydal, Bruce Alfred, 3,470,912.
Cairns, Edward L., 3,445,183.
Cairns, Theodore L., 3,456,057.
Camhi, Jack C.; Hackney, Donald E.; and Lewis, Thomas Glenn, Jr., 3,422,494.
Campbell, David Robert, 3,461,199.
Carboni, Rudolph A., 3,458,560.
Carmichael, Keith S., 3,420,367.
Carmichael, Keith S., 3,441,460.
Carmichael, Keith S.; and di Giacomo, Eugene P., 3,442,372.
Carmichael, Keith S., 3,466,851.
Carpenter, John Mc Murray, III; and Smith, Drexel Kermit, 3,480,706.
Carter, Elbert P., 3,474,292.

Carter, Giles F., 3,467,545.
Carter, Giles F., 3,481,769.
Celeste, Jack Richard, 3,448,089.
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth, 3,423,427.
Cescon, Lawrence Anthony, 3,445,233.
Cescon, Lawrence Anthony; and Dessauer, Rolf, 3,445,234.
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth, 3,449,379.
Chaban, Castulo, Jr., 3,468,284.
Chalmers, John R.; and Stilmar, Frederic B., 3,451,978.
Chambers, Vaughan Crandall, Jr., 3,479,185.
Chiu, Jen, 3,453,864.
Chrisp, Joseph D., 3,444,014.
Church, Robert J., 3,438,764.
Cillag, John R.; and Campbell, James D., III, 3,432,421.
Cist, John David, 3,427,462.
Clarke, Ray Allen; and Griffin, Dale Miller, Jr., 3,479,192.
Coats, Fred Haden, Jr., 3,446,734.
Cobb, James Stanley, Jr., 3,456,292.
Cober, Lloyd W., Jr.; and McDaniel, James S., 3,474,952.
Coburn, Mathias M., 3,438,921.
Cohen, Abraham Bernard, 3,460,944.
Coker, James N., 3,475,391.
Cole, Paul Morrison, 3,461,508.
Concannon, Thomas P., 3,477,975.
Contractor, Rashmikant Maganlal; and Kern, Robert Evans, 3,449,486.
Cooper, Joseph H.; and Klein, Oscar J. C., 3,475,436.
Cope, Oswald James, 3,435,093.
Cox, Norman L.; and Hicks, William T., 3,451,771.
Craven, James M., 3,435,003.
Craven, James M.; Dye, John I.; and Hochberg, Jerome, 3,481,766.
Craven, James M.; Dye, John I.; and Hoohberg, Jerome, 3,481,767.
Craven, Robert Lee, 3,485,693.
Crawford, Lloyd W., 3,422,546.
Cummins, Earl W., 3,480,631.
Darby, Robert Albert, 3,450,684.
Davenport, Buell Edward; Flynn, John Henry, IV; and Jacobs, Alfred, 3,431,236.
David, John Cyrenius, 3,442,740.
Davis, Darwin Darrell, 3,481,846.
Davis, Eugene L., Jr., 3,443,292.
Davis, Howard Arthur; and Karickhoff, Michael, 3,455,720.
Dawson, George Alexander, 3,444,110.
Dempsey, James Joseph, 3,427,376.
Dempsey, James Joseph; and Lee, Chi-Chang, 3,478,141.
Dennis, Fred Stanley; and Skelton, William B., Jr., 3,423,501.
Detweiler, Roy R., 3,454,360.
Dickins, John Shuford, III, 3,423,806.
Dietz, Donald Mars, 3,428,531.
Dietz, John W.; and McWhorter, John R., Jr., 3,441,610.
Dodson, William C., Jr.; and Long, George R., 3,458,905.
Dorsey, James C., 3,476,713.
Drinkard, William C., Jr., 3,432,539.
Duncan, William Joseph; Fisher, Charles Frank; Moye, Frank Houston; and Piercy, Samuel Allen, 3,457,341.
Dunglinson, Colin; and Lyerly, William M., 3,431,155.
Dunnington, Gordon B.; and Fields, Reuben T., 3,470,288.
Dunworth, William Paul, 3,426,010.
Dutton, Hubert Wallace, Jr.; and Lees, Ray Frank, 3,433,857.
Dye, John I., 3,455,727.
Eiseman, Bernhardt J., Jr., 3,444,085.
Ellis, Linus, 3,420,824.
Emery, Michael Burgin, 3,428,266.
Emslie, Robert S.; Gulledge, Hugh C.; Lewis, George L.; and Willcox, Oswin Burr, 3,484,260.
Engelhardt, Eugene Herman, 3,476,827.
Engelhardt, Vaughn A., 3,431,089.
England, David C., 3,423,378.
Evans, Franklin James, 3,485,706.
Evans, Franklin James; and Levy, Martin R., 3,485,709.
Evans, Franklin James; and Summers, Ronald John, 3,486,168.
Evans, Richard L., 3,451,999.
Evans, William L., 3,428,502.
Ewing, Alvin Lenwood, 3,471,095.
Fidler, William Edward, 3,438,825.
Field, Frederick C., Jr., 3,427,647.
Field, Frederick C., Jr., 3,438,094.
Field, Frederick C., Jr., 3,447,302.
Finch, Neil L., 3,421,935.
Fish, Floyd Hamilton, Jr.; and Stine, Cawley Richard, 3,485,711.
Fisher, Richard Gordon, 3,459,622.
Fletcher, David M.; and Wendel, Martin M., 3,475,118.
Fletcher, Eldon L., 3,464,300.
Flook, William M., Jr., 3,465,589.
Fogg, Robert E., 3,447,990.
Foster, Peter William, 3,432,477.
Foster, Peter William, 3,468,850.
Frazer, August Henry, 3,422,116.
Frazer, August Henry; and Memger, Wesley, Jr., 3,476,719.
Fuchs, Julius, 3,422,132.
Gage, Thomas B., 3,433,008.
Gale, David M., 3,446,845.
Gale, David M., 3,459,647.
Gale, David M., 3,468,924.
Gale, David M., 3,478,100.
Gall, Walter George, 3,422,061.
Gall, Walter George, 3,422,064.
Gallay, Ralph; and La Penta, Samuel Peter, 3,439,025.
Garrison, Dale Leroy; and Lulay, Arthur, 3,469,285.
Garrison, William E., 3,434,915.
Garrison, William E., 3,454,689.
Gay, Frank P.; and Agolini, Franco, 3,455,879.
Geary, Charles Gerald, 3,486,896.
Geary, James Edward, Jr.; Harsch, William Edward; Maxwell, John Murdock; and Rego, Richard Donald, 3,442,002.
Geerdes, James Divine; and Kuechler, William Lewis, 3,452,131.
Gessner, Joseph, 3,437,555.
Gilardi, Robert John, 3,461,193.
Gonser, William Arnold, 3,427,052.
Gorman, John Joseph, 3,479,311.
Gorrafa, Adly Abdel-Moniem, 3,421,185.
Gorrafa, Adly Abdel-Moniem, 3,478,392.
Gorton, Bert Sorelle, 3,462,337.
Graf, Walter L.; and Medeiros, Francis Joseph, 3,436,797.
Graham, Boynton, 3,454,623.
Guess, Algernon P., Jr.; and Kiscaden, Donald C., 3,458,616.
Gumprecht, William Henry; and Johnson, Rulon Edward, Jr., 3,445,392.
Hackman, Edward Jerome; and Hollberg, Herbert John, 3,453,428.
Hagen, Richard M., 3,460,740.
Hailstone, Robert Burleigh, 3,437,553.
Hall, Henry K., Jr., 3,457,194.
Hall, Larry Eugene, 3,436,430.
Hallada, Donald Paul, 3,473,881.
Halliwell, Ronald Harry, 3,436,422.
Hancock, Jack Arnet; and Hayden, William Fred, 3,466,716.
Hanke, Albert R., 3,438,796.
Hanson, Doyce B.; Hansen, John E.; and Boyer, Nolan D., 3,422,180.
Harder, Robert Junior, 3,472,908.
Hare, Weston Andrew, 3,421,914.
Harris, Alexander Thomas; and King, Kenneth Francis, 3,467,633.
Harris, John Ferguson, Jr., 3,449,304.
Harvey, John, Jr., 3,432,600.
Harvey, John, Jr., 3,453,284.
Harvey, John Vipond; and Thompson, John Rowson, 3,461,718.
Hatcher, John E., 3,480,405.
Hathaway, Floyd S., 3,485,592.
Haugh, Eugene Frederick, 3,451,819.
Haugh, Eugene Frederick, 3,486,895.
Hause, Norman L.; and Swalheim, Donald Arthur, 3,453,186.
Hays, Richard Young, 3,436,789.
Hebeler, Harold H., 3,459,845.
Hecht, James Lee; and Hughes, Charles T., 3,464,963.
Heckrotte, Robert S.; Lewis, Edward F.; and Sinson, Elwood A., 3,428,289.
Heckrotte, Robert S.; Kiscaden, Donald C.; and Wyeth, Nathaniel C., 3,460,199.
Heckrotte, Robert S., 3,466,703.
Heffelfinger, Carl John, 3,432,591.
Hertler, Walter R., 3,428,439.
Hertler, Walter R., 3,429,923.
Hertler, Walter R., 3,438,747.
Hetherington, Richard; and Foley, Joseph, 3,423,311.
Hicks, William T., 3,438,819.
Hicks, William T., 3,486,851.
Hildebrand, Cleveland L., 3,468,120.
Hochberg, Jerome, 3,429,727.
Hoegger, Erhard F., 3,423,365.
Hoegger, Erhard F., 3,436,372.
Hoegger, Erhard F., 3,442,861.
Hoegger, Erhard F., 3,476,714.
Hoeschele, Guenther Kurt, 3,429,856.
Hoeschele, Guenther Kurt, 3,450,562.
Hoeschele, Guenther Kurt, 3,456,037.
Hoeschele, Guenther Kurt, 3,459,781.
Hoffman, Lewis C., 3,437,892.
Hoffman, Lewis C., 3,440,062.
Hoffman, Lewis C., 3,440,182.
Hoffman, Lewis C., 3,480,566.
Hoffman, Richard A., 3,469,954.
Hoffman, Richard Alan; May, Joe Turner; and Meckley, Frederick William, 3,437,461.
Holfeld, Winfried T., 3,429,017.

Holmquist, Howard Emil, 3,479,304.
Holtzman, Arnold Harold, 3,439,611.
Hook, John H., 3,446,287.
Howard, Edward George, Jr., 3,485,792.
Hubbuch, Leo P., 3,444,183.
Huey, Abram D., III; and McGhee, John D., 3,459,932.
Hull, Donald Robert; and Piccard, John Augustus, 3,466,822.
Hume, Harold F., 3,423,923.
Hume, Harold Frederick, 3,453,689.
Hunt, Oliver Larry, 3,428,711.
Hutton, David G., 3,442,961.
Hyde, Thomas J., 3,449,269.
Hyson, Archibald M., 3,454,700.
Ikeda, Carol K.; and Sorenson, Ben E., 3,471,517.
Iler, Ralph K., 3,469,976.
Iler, Ralph K., 3,485,658.
Jacobson, Howard W.; and Pollock, Warren I., 3,475,233.
James, David D., 3,439,798.
Jelinek, Arthur G., 3,426,129.
Jelinek, Arthur G., 3,457,349.
Jenner, Edward L., 3,481,992.
Joarder, Mohammad Golam Kibria; and Walker, Garland Ray, 3,474,613.
Johnson, Alexander L., 3,475,433.
Johnson, Donald R.; Nadeau, Richard G.; Nieuweboer, Gerrit; and Truett, William L., 3,476,515.
Johnson, Rayner S., 3,457,292.
Jones, Frank N., 3,459,785.
Jones, John Willard, 3,427,188.
Jones, John Willard, 3,442,686.
Kalil, James; and Milano, James, 3,454,589.
Kane, William P., 3,442,697.
Karickhoff, Michael, 3,446,886.
Kassal, Robert James, 3,428,658.
Kauer, James C., 3,474,174.
Kealy, Thomas Joseph, 3,474,082.
Keane, John J.; and Lough, John C., 3,431,135.
Keefe, Robert L., Jr., 3,469,001.
Keen, Arnold Ralph, 3,481,365.
Kelemen, Denis G., 3,472,683.
Kilby, Claude William; and Smith, James Gerald, 3,456,156.
Kissa, Erik; Manos, Philip; and Wahlig, Charles F., 3,453,038.
Kjellmark, Eric W., Jr., 3,443,982.
Klanberg, Frank K., 3,450,733.
Klanberg, Frank K.; and Parshall, George W., 3,455,977.
Klanberg, Frank K., 3,471,269.
Kleinfelder, Earl O., 3,475,117.
Klopping, Hein L.; and Loux, Harvey M., 3,454,567.
Kneib, Jan A., 3,456,857.
Knospe, Robert H., 3,481,133.
Knoth, Walter H., Jr., 3,424,773.
Knoth, Walter H., Jr., 3,427,136.
Knoth, Walter H., Jr., 3,472,636.
Knoth, Walter H., Jr., 3,478,098.
Knoth, Walter H., Jr., 3,481,696.
Kottenhahn, Alfred Peter, 3,431,307.
Kraus, Philip B., 3,485,577.
Krespan, Carl G., 3,475,481.
Kring, Elbert V., 3,446,671.
Kugele, Thomas G., 3,471,282.
Kuhrt, Noel Hawkins, Jr., 3,434,841.
La Lancette, Eugene A., 3,450,720.
La Lancette, Eugene A., 3,450,724.
Lassiter, James Turnley, 3,459,798.
Latschar, Carl E., 3,428,481.
Laucius, Joseph Francis; and Spiegler, Louis, 3,422,154.
Lawes, Bernard C., 3,481,886.
Lehrer, Robert, 3,457,478.
Leibee, Joseph Bruce, 3,426,825.
Lemke, Charles H., 3,481,770.
Levin, Gilbert V., 3,432,487.
Levy, Paul F.; and Tabeling, Raymond W., 3,474,658.
Lewis, Richard W.; and White, Jerome R., 3,461,261.
Lewis, Robert Bee; and Derry, William Thomas, 3,430,888.
Lindenhovius, Alex; Klaver, Petrus; and Appel, Johannes Andreas, 3,447,887.
Linderman, James Stephens, 3,448,252.
Lindsey, Roland G., 3,471,591.
Lindsey, William B.; and Locey, Mark M., 3,455,774.
Linton, Howard Richard, 3,450,550.
Linton, Howard R., 3,470,007.
Long, Cecil Louis, 3,468,700.
Loux, Harvey M., 3,466,280.
Loux, Harvey M., 3,466,285.
Luckey, George W.; and Miller, Francis A., Jr., 3,482,092.
Luebke, Donald V., 3,442,817.
Lunt, Richard R., Jr., 3,440,211.
Lyerly, William M., 3,445,305.
Lyerly, William M., 3,471,346.
Lyons, Lawrence Henry, 3,445,837.
Macrov, Sidney B., 3,467,482.
Magat, Eugene Edward; and Tanner, David, 3,423,163.
Magat, Eugene Edward; and Tanner, David, 3,424,820.
Magat, Eugene E.; and Sharkey, William H., 3,475,898.
Magner, Lowell Max; and Punderson, John Oliver, 3,484,503.
Makansi, Munzer; and McKenica, Winfield L., 3,485,710.
Mallonee, James Edgar, 3,428,673.
Maloney, Daniel Edwin, 3,422,055.
Maloney, Daniel Edwin, 3,440,231.
Manos, Philip, 3,451,741.
Manos, Philip, 3,457,213.
Marks, Barnard M., 3,441,538.
Marsh, Frank D., 3,427,323.
Marshall, William J., 3,440,075.
Masino, John Albert; Sturdevant, Eugene J.; and Williams, Stanley Victor, 3,479,520.
Mathews, Ralph T., 3,425,588.
Mathews, Ralph T., 3,479,948.
McBride, Richard T., 3,443,980.
McCaskill, William Brand; and Neal, James Preston, IV, 3,426,630.
McCutchan, Frank, Jr., 3,426,406.
McDonough, Leslie Marvin, 3,426,100.
McGhee, John D., 3,461,380.
McGonigal, William E., 3,484,439.
McHale, John J., 3,436,301.
McKenica, Winfield Lewis, 3,485,774.
McShane, Herbert Felix, Jr., 3,439,015.
Mead, Edward Jairus; and Scheuerman, Vernal Hardy, 3,454,422.
Meadows, Geoffrey W., 3,451,791.
Meadows, Geoffrey W., 3,486,881.
Meagher, Robert, 3,432,896.
Melby, Lester R., 3,440,190.
Middleton, William J., 3,424,732.
Middleton, William J., 3,442,904.
Middleton, William J., 3,459,766.
Middleton, William J., 3,461,129.
Miller, William C.; and Trutna, William R., 3,476,751.
Moede, Jerome Albert, 3,440,049.
Moncure, Henry, Jr., 3,480,694.
Monroe, Elmer S., Jr., 3,449,076.
Monroe, Elmer Sylvester, Jr., 3,435,505.
Montgomery, Franklin Luckenbill, 3,472,828.
Moody, Richard E., 3,422,318.
Moran, Edward F.; and Reider, Donald P., 3,467,704.
Moynihan, Robert E., 3,458,388.
Muetterties, Earl L., 3,446,604.
Munn, George E., 3,451,974.
Myers, Neil O., 3,433,007.
Nacci, George Raymond, 3,476,595.
Nadeau, Richard G., 3,485,723.
Naselow, Arthur B., 3,442,703.
Naselow, Arthur B., 3,485,796.
Nersasian, Arthur, 3,467,636.
Nestor, James F., 3,480,479.
Newby, William Edward; and Sands, Seymour, 3,485,569.
Nichols, George M., 3,449,091.
Nieuweboer, Gerrit, 3,444,731.
Oberlin, Robert E., 3,473,938.
Olsen, John Sylvester, 3,428,560.
Olson, Edwin G.; Wills, Thomas M.; and Yunan, Malak E., 3,474,500.
Ord, Robinson, Jr., 3,459,507.
Osborn, Robert Otto, 3,423,400.
Owens, Daniel Kenyon, 3,428,483.
Owens, John E.; and Zafiroglu, Dimitri P., 3,481,005.
Papa, Anthony J., 3,429,879.
Paris, Olden E., 3,441,542.
Parker, Arthur H.; and Sherick, John P., 3,475,228.
Parker, Fred W., 3,477,969.
Pascale, Donald Anthony, 3,454,417.
Patterson, Hugh Thomas, 3,475,204.
Patterson, Hugh T., 3,436,288.
Pattison, Dexter Brayton, 3,467,638.
Patton, Wilbur L.; and Riley, Harry, 3,471,602.
Paxton, Robert B., 3,454,461.
Pecka, James T., 3,485,734.
Pierce, Norwin Caley, 3,437,725.
Pinney, Baden McDowall, 3,433,463.
Pitzl, Gilbert, 3,452,130.
Pitzl, Gilbert, 3,452,132.
Pledger, James Thompson, Jr., 3,445,546.
Potrafke, Earl M., 3,438,805.
Powell, Richard J., 3,474,063.
Pratt, Herbert Thomas, 3,434,793.
Pritchett, William A., 3,459,816.
Proffitt, Thomas Jefferson, Jr., 3,434,874.
Pruckmayr, Gerfried; and Victorius, Claus, 3,461,136.
Punderson, John O., 3,472,756.
Quisenberry, Richard Keith, 3,440,221.
Raasch, Maynard S., 3,462,489.

Raasch, Maynard S., 3,468,908.
Rawlins, Stokes Smith, Jr., 3,443,950.
Raynolds, Stuart; and Tandy, Thomas K., Jr., 3,438,925.
Raynolds, Stuart; and Tandy, Thomas K., Jr., 3,462,296.
Raynolds, Stuart, 3,480,579.
Read, Robert Emms, 3,459,696.
Rees, Richard Watkin, 3,437,718.
Rees, Richard Watkin, 3,471,460.
Reese, Cecil E., 3,444,681.
Reese, Cecil E., 3,468,996.
Reeves, James W., 3,443,360.
Reinhardt, Heinz F., 3,431,280.
Reinhardt, Heinz F., 3,438,934.
Reinhardt, Heinz F., 3,441,423.
Rich, William W., 3,440,256.
Roesky, Herbert W., 3,432,277.
Roesky, Herbert W., 3,437,455.
Roesky, Herbert W., 3,449,473.
Rogers, Arthur O., 3,443,893.
Rogers, Arthur O., 3,467,679.
Rogers, Fulton F., Jr., 3,450,678.
Ross, Francis J., 3,459,493.
Ruff, Robert Bernard, 3,481,736.
Rusher, Robert L., 3,421,907.
Rusher, Robert L., 3,421,909.
Rusher, Robert L., 3,455,705.
Rushmere, John D.; and Todd, William H., 3,454,475.
Rushmere, John Derek, 3,472,743.
Ryan, Cornelius J., 3,423,350.
Ryan, James Francis, Jr., 3,438,192.
Sadek, Fawzy S., 3,471,610.
Sandy, Charles Anthony, 3,426,056.
Sarafidis, Christos, 3,445,540.
Sauer, John C., 3,457,050.
Sauer, John C., 3,476,527.
Schick, Mary Margaret, 3,461,026.
Schimelpfenig, Clarence W., Jr.; and Subramanian, Pallatheri M., 3,444,125.
Schmitt, Donald B., 3,423,809.
Schneider, Rudolf, 3,454,424.
Schoenbeck, Melvin Albert, 3,475,397.
Schuler, Mathias John; and Smeltz, Kenneth Cleon, 3,432,409.
Schwarz, Eckhard C. A., 3,455,735.
Schwarz, Eckhard Christian August, 3,438,910.
Schwarz, Eckhard Christian August, 3,446,773.
Schwarz, Eckhard Christian August, 3,464,878.
Schweitzer, Carl Earle; and Setterquist, Robert Alton, 3,437,640.
Schweitzer, Carl Earle; and Setterquist, Robert Alton, 3,477,994.
Schweitzer, Francis E., 3,459,706.
Scoggin, John K., 3,427,388.
Scribner, Richard M., 3,424,751.
Scribner, Richard M., 3,458,505.
Sears, George W., Jr., 3,455,709.
Seiter, Eugene Dwight; and Umberger, Jacob Quentin, 3,424,583.
Selman, Stanley, 3,450,716.
Selman, Stanley, 3,467,702.
Selman, Stanley, 3,475,456.
Selman, Stanley; and Squire, Edward N., 3,480,603.
Seney, John Seymour, 3,430,488.
Seney, John Seymour, 3,482,236.
Seney, John Seymour, 3,486,047.
Seufert, Ludwig Edward, 3,437,468.
Severns, William H., Jr., 3,473,916.
Shaw, Fred D., Jr., 3,425,973.
Sheets, Thomas M., 3,442,956.
Sherman, Arthur Tillman; and Miller, Robert Harrison, 3,421,232.
Shin, Hyunkook, 3,449,809.
Short, Oliver A., 3,472,653.
Sierer, Harry D., 3,459,848.
Sinclair, Harold K., 3,481,888.
Sippel, Roy J., 3,440,176.
Smeltz, Kenneth C., 3,426,025.
Smeltz, Kenneth C., 3,442,768.
Smeltz, Kenneth C., 3,478,116.
Smith, Claibourne D., 3,485,798.
Smith, Donald J., 3,459,576.
Smith, Drexel K., 3,470,914.
Smith, Frank T.; and Smith, Robert D., 3,455,146.
Smith, James Gerald, 3,484,899.
Smith, Lee Davis, Jr., 3,482,597.
Smith, Robert Dilman, 3,438,434.
Smoot, Charles Richard, 3,450,552.
Snyder, John D., 3,481,804.
Soboczenski, Edward J., 3,436,207.
Sosnowicz, Edward J.; and Willis, Frank M., 3,442,105.
Souffie, Robert David, 3,449,204.
Sowards, Donald Maurice, 3,473,987.
Speck, Stanley Brooke, 3,485,814.
Spriestersbach, David Richard; Clarke, Ray Allen; Couper, Monroe; and Patterson, Hugh T., 3,473,998.
Squires, Paul Herman, 3,476,627.
Starkweather, Howard Warner, Jr., 3,480,457.
Steuber, Walter, 3,421,181.
Stiegler, Theodore Donald; Janosik, James Phillip; and Burns, Edward Brantley,, 3,460,776.
Stiles, Alvin B.; and Yates, Paul Clifford, 3,460,523.
Stilmar, Frederic B., 3,431,136.
Stilmar, Frederic B., 3,445,434.
Stilmar, Frederic B., 3,449,305.
Stinger, Henry Joseph, 3,456,495.
Strange, Jack F., 3,486,893.
Streicher, Michael A., 3,481,762.
Streicher, Michael A., 3,481,882.
Stupakis, Yani S., 3,423,028.
Su, Aaron Chung Liong, 3,455,974.
Summers, Ronald John, 3,434,188.
Sunshine, Norman B.; Hick, Robert M., Jr.; and Gould, Joseph O., 3,445,423.
Svadlenak, Rudolf E., 3,437,531.
Swalheim, Donald A.; and Mackey, Robert W., 3,445,351.
Swalheim, Donald A.; and Mackey, Robert W., 3,468,769.
Swamer, Frederic Wurl, 3,468,964.
Swanson, Ralph G., 3,471,389.
Swerlick, Isadore, 3,459,582.
Tabeling, Raymond W., 3,473,382.
Tatnall, Robert E., 3,468,747.
Taylor, Robert Edward, 3,446,766.
Thompson, Gordon Welton, 3,460,194.
Thompson, Robert G., 3,467,719.
Thornton, Roger L., 3,442,857.
Thurn, Robert Dean, 3,467,628.
Tietz, Raymond F.; and Kenyon, William G., 3,468,861.
Tipplets, Karl Guymon, 3,443,308.
Tocker, Stanley, 3,437,635.
Trofimenko, Swiatoslaw, 3,431,275.
Troth, Henry Mc Cardell, Jr., 3,477,103.
Troth, Henry McCardell, Jr., 3,460,731.
Twelves, Robert Ralph, 3,449,397.
Tyran, Leo W., 3,487,059.
Umberger, Jacob Quentin, 3,451,820.
Van Dyk, John W., 3,480,547.
Van Veld, Robert Dale, 3,471,702.
Vasta, Joseph A., 3,427,291.
Vasta, Joseph A., 3,433,771.
Vasta, Joseph A., 3,442,873.
Vasta, Joseph A., 3,471,457.
Vasta, Joseph A., 3,480,560.
Victorius, Claus, 3,441,532.
Victorius, Claus, 3,454,516.
Vogl, Otto F., 3,454,527.
von Erdberg, Robert, 3,480,998.
Vosburgh, William George, Sr., 3,459,627.
Wagner, Philip Lyle, 3,476,715.
Waldin, Vincent H., 3,479,833.
Waldin, Vincent H., 3,482,412.
Waldin, Vincent H., 3,486,345.
Wallenberger, Frederick T., 3,472,818.
Wallenfels, Miklos, 3,458,334.
Warnell, Joseph Leo, 3,449,389.
Webers, Vincent Joseph, 3,445,229.
Weiss, George, 3,453,662.
Werner, Alfred J., 3,437,502.
White, Frederick F., Jr., 3,482,218.
Whitney, Joel G., 3,444,199.
Whitney, Joel G., 3,446,846.
Wieland, Carson E., 3,442,317.
Wiggill, John Bentley, 3,427,187.
Wilhoit, Eugene Dennis, 3,461,160.
Willcox, Oswin B., 3,423,178.
Willcox, Oswin B.; Kolb, Kenneth M.; and Amin, Rajnikant B., 3,459,574.
Wilson, Billy J., 3,421,346.
Wilson, Donald Richard, 3,459,684.
Wilson, Nathan W., 3,467,333.
Windley, William Thomas, 3,429,491.
Withers, Michael S., 3,435,893.
Witsiepe, William Kenneth, 3,485,802.
Wittbecker, Emerson L., 3,471,590.
Wolf, Herbert Otto, 3,476,806.
Wolfe, James Richard, Jr., 3,425,983.
Wolfe, Kenneth R., 3,476,408.
Wolinski, Leon Edward, 3,467,611.
Wollman, Henry Thomas, 3,420,710.
Wood, Stanley David, 3,459,840.
Woodell, Rudolph, 3,467,744.
Yates, Paul C., 3,450,499.
Yates, Paul C., 3,475,375.
Yolles, Seymour, 3,441,389.
Youker, Mortimer Alexander, 3,428,592.

Youker, Mortimer Alexander, 3,450,649.
Zafiroglu, Dimitri P., 3,454,443.
Zedalis, Robert John, 3,450,045.
Zeisberg, Millard David, 3,474,616.
Zimmerman, Joseph, 3,432,575.

Du Pont, Nicholas R.: *See—*
Waterbury, Nelson J., 3,444,946.

Du Pont, S. T., (Societe Anonyme): *See—*
Tissot Dupont, Lucien Francois Simon, 3,452,522.
Tissot Dupont, Lucien Francois Simon, 3,453,065.

Duport, Jacques P.; and De Crevoisier, Michel, to Societe Grenobloise d'Etudes et d'Applications Hydrauliques (Sogreah). Device for the production of energy in bursts. 3,433,014, 3-18-69, Cl. 60-12.

Duport, Jacques P.; and Martin, Gilbert, to Societe Grenobloise d'Etudes et d'Applications Hydrauliques (Sogreah). Reversible hydraulic apparatus. 3,464,357, 9-2-69, Cl. 103-3.

Dupoux, Jean: *See—*
Dieval, Michel; Dupoux, Jean; Joffre, Henri; and Pradel, Jacques,3,448,269.

Dupraw, William A.: *See—*
Graab, Judson W.; Rosenblum, Louis; Maple, William E.; Dupraw, William A.; and Gahn, Randall F.,3,472,625.

Dupraz, Carol A.: *See—*
Goodman, Henry G., Jr.; and Dupraz, Carol A.,3,449,406.

Dupraz, Jacques; and Hawkes, Thaddeus, to CSF-Compagnie Generale de Telegraphie Sans Fil. Variable threshold correlator system for the synchronization of information signals by a cyclically repeated signal group. 3,463,911, 8-26-69, Cl. 235-181.

Dupre, Edwin V. Cushioned wheel. 3,465,804, 9-9-69, Cl. 152-11.

Du Pre, Frank C. Connector for joining the panels together edge to edge. 3,439,465, 4-22-69, Cl. 52-584.

du Pre, Frits Karel, to North American Philips Company Inc. Piston rod guide for rhombic drive stirling cycle apparatus. 3,431,788, 3-11-69, Cl. 74-44.

Dupre, Henry P., to Burndy Corporation. Self-sealing connector. 3,456,232, 7-15-69, Cl. 339-96.

Dupuis, Arthur V.: *See—*
Greenspan, Frank P.; and Dupuis, Arthur V.,3,468,754.

Dupuis, D., und Co., Firma: *See—*
van der Veen, Albert Jacob, 3,452,942.

Dupuis, Hubert, to Allegheny Ludlum Steel Corporation. Boring bar. 3,461,751, 8-19-69, Cl. 77-58.

Dupuis, Jean M., to Northern Electric Company Limited. Method and apparatus for making wound film capacitors from continuous strips. 3,459,616, 8-5-69, Cl. 156-184.

Dupuis, Robert C. Concrete testing mold. 3,454,257, 7-8-69, Cl. 249-112.

Dupuy, Gerard: *See—*
Germond, Philippe; and Dupuy, Gerard,3,481,833.
Javellaud, Jean; Robin, Marc; and Dupuy, Gerard,3,454,465.

Duquesne, Jean F.: *See—*
Lucas, Pierre M.; Duquesne, Jean F.; LeGall, Pierre; and Rouzier, Michel M.,3,454,723.

Dura Corporation: *See—*
Adamski, Joseph, 3,453,021.
Eskra, Rudolph; and Cook, James M., 3,440,765.
Eskra, Rudolph, 3,440,892.
Knapp, Theodore F., 3,480,815.
Lawter, Raymond L., 3,447,545.
Shelhart, Robert E., 3,477,378.
Shelhart, Robert Edward, 3,434,282.
Verdi, Sam C., 3,448,975.

Dura-Last Shingle Corp.: *See—*
Salvo, Anthony, 3,420,024.

Durable Manufacturing Company: *See—*
Blackford Raymond H., 3,456,682.

Durachenko, Mikhail Ivanovich: *See—*
Rebenok, Anatoly Georgievich; Budenkov, Valentin Nikolaevich; Mezentsev, Jury Grigorievich; Vainshtein, Lazar Pinkhusovich; Durachenko, Mikhail Ivanovich; and Kovdrya, Ivan Timofeevich,3,457,879.

Durametallic Corporation: *See—*
Hershey, Lowell E., 3,420,535.
Hershey, Lowell E., 3,467,396.
Hershey, Lowell E., 3,477,729.

Duran, Johannes Christiaan: *See—*
Bakker, Martinus Antonius Maria; Collaris, Maria Antonius Alphonsus Andreas; and Duran, Johannes Christiaan,3,478,243.

Duran, Raymond J.: *See—*
Beckering, Jacobus J.; Duran, Raymond J.; and Lessig, William R., III,3,485,018.

Duran, Raymond J.; and Beares, Allen G., to Black and Decker Manufacturing Company, The. Folding handle for lawn mower. 3,485,017, 12-23-69, Cl. 56-25.4

Durand & Hugenin A.G.: *See—*
Keller, Heinz; and Grossmann, Hans, 3,467,645.

Durand, Douglas V. Forced air burner. 3,431,873, 3-11-69, Cl. 110-18.

Durand, Francois. Devices for driving an internal gear. 3,461,734, 8-19-69, Cl. 74-410.

Durand, Francois. Devices for driving toothed wheels. 3,461,735, 8-19-69, Cl. 74-410.

Durand, Fred A., Jr.; and May, Charles R., to National Biscuit Company. Automatic coring machine. 3,434,517, 3-25-69, Cl. 146-52.

Durand, Georges; and Kosztolanyi, Charles, to Commissariat a l'Energie Atomique. Method of stabilization of thermionic sources and thermionic source obtained by application of said method or a like method. 3,423,583, 1-21-69, Cl. 250-41.9

Durand, Jacques Georges, to Verrerie Cristallerie d'Arques J.G., Durand & Cie Societe en Commandite Par Actions. Display-boxes for tumblers. 3,438,481, 4-15-69, Cl. 206-45.33

Durand, Maurice. Rotary cylinder for heat treatment of fabrics or the like continuous materials. 3,452,967, 7-1-69, Cl. 263-6.

Durand, Paul: *See—*
Teszner, Stanislas; Durand, Paul; Morel, Philippe H.; and Briere, Pierre E.,3,482,151.

Durand, Pierre, to Richier. Gyratory crushers. 3,423,033, 1-21-69, Cl. 241-32.

Durand, Pierre, to Richier. Collapsible crane. 3,433,368, 3-18-69, Cl. 212-46.

Durand, Pierre, to Richier. Methods for erecting tower cranes. 3,466,723, 9-16-69, Cl. 29-155.

Durand, Roy L., to Lozow, Donald L. Portable winch. 3,467,359, 9-16-69, Cl. 254-168.

Durand, Tulvio S.: *See—*
Ashkenas, Irving L.; Durand, Tulvio S.; and McRuer, Duane T.,3,483,302.

Duranleau, Roger G.: *See—*
Crowe, Curtis W.; and Duranleau, Roger G.,3,436,262.

Durant, Bobby G.: *See—*
Miller, Charles Fredrick; Zenker, Raymond O.; and Durant, Bobby G.,3,451,607.

Durbin, Enoch J. Measuring system. 3,429,178, 2-25-69, Cl. 73-27.

Durbin, Enoch J. Mass flow meter apparatus. 3,470,741, 10-7-69, Cl. 73-194.

Durbin, Stanley H., to Bliss, E. W., Company. Monitoring circuit for sequentially testing hot sizing press resistance heaters connected in pairs during energization of the mate heater. 3,447,079, 5-27-69, Cl. 324-73.

Durbin, Votaw S. Wire rope clip. 3,440,694, 4-29-69, Cl. 24-125.

Durch, Edward L.: *See—*
Fortsch, Francis J.; and Durch, Edward L.,3,425,159.

Duret, Jean Louis Albert, to Societe anonyme dite: Vallourec. Separable joint for pipes. 3,468,563, 9-23-69, Cl. 285-93.

Durfee, Robert L.: *See—*
Spurlock, Jack M.; and Durfee, Robert L.,3,453,967.

Durgin, Charles B.: *See—*
Nelkin, Arthur; Durgin, Charles B.; Geil, Fred G.; and Thompson, John H.,3,438,021.

Durham, Carl T., Jr., to General Electric Company. Process for treating electrostrictive ceramic elements. 3,465,069, 9-2-69, Cl. 264-82.

Durham Chemicals Limited: *See—*
Ridley, Maurice Alexander; and Robinson, Peter John, 3,464,906.

Durham, Donald F.; and Burk, Duane L., to Caterpillar Tractor Company. Seals for track link assemblies. 3,480,338, 11-25-69, Cl. 305-11.

Durham, Harry B., to United States Steel Corporation. Holder for machining impact specimens. 3,457,828, 7-29-69, Cl. 90-11.

Durham, Noel O.: *See—*
Branch, Jack P.; and Durham, Noel O.,3,451,502.

Durham, Robert C., Jr.: *See—*
Durham, Robert C., Sr.; and Durham, Robert C., Jr.,3,452,482.

Durham, Robert C., Sr.; and Durham, Robert C., Jr. Window construction. 3,452,482, 7-1-69, Cl. 49-506.

Duria-Werk Karl Kempf GmbH: *See—*
Heck, Friedrich, 3,431,105.

Durie, Robert W., to Shell Oil Company. Method of producing hydrocarbons from an underground formation. 3,439,742, 4-22-69, Cl. 166-272.

Duriron Company, Inc., The: *See—*
Duffey, Donn W.; and Wissman, Jack L., 3,425,439.
Gunther, Rush B., 3,441,115.
Reiling, Victor G., 3,432,511.
Schenck, Robert C., Jr., 3,438,388.
Schenck, Robert C., Jr.; and Ferris, Herbert C., 3,459,213.
Sumner, Earl C., 3,471,395.

Duris, Milan W.: *See—*
Clark, Raymond N.; Duris, Milan W.; and Koros, Leslie L., deceased,3,466,497.

Duris, Rudolph M., to Edwards Company, Inc. Bell striker reciprocating motor. 3,448,307, 6-3-69, Cl. 310-23.

Durkan, Gerald. Physiological fluid infusion system having automatic cutoff. 3,469,574, 9-30-69, Cl. 128-214.

Durkee, Fank P., to General Electric Company. Yttrium vanadate europium phosphor preparation by precipitation using ammonium carbonate. 3,441,512, 4-29-69, Cl. 252-301.4

Durkee, Frank P., to General Electric Company. Treatment of recrystallized YVO_4: Eu luminescent materials. 3,484,382, 12-16-69, Cl. 252-301.4
Durkee, Jackson L.; Wall, William C.; and Lester, Raymond H., to Bethlehem Steel Corporation. Plastic coated cable and method of making same. 3,457,717, 7-29-69, Cl. 57-149.
Durkee, John E.; and Remington, Duncan S., to Emerson Electric Co. Intercom-signal device. 3,453,390, 7-1-69, Cl. 179-1.
Durkopp Aktiengesellschaft: *See—*
Biermann, Kurt, 3,478,708.
Durland, Donovan D. Device for making sculpture. 3,479,691, 11-25-69, Cl. 18-5.1
Durler, Jacques; and Zoller, Frederic, to Hispano Suiza (Suisse) S.A. Spinning machines having hydraulically controlled ring rails. 3,422,614, 1-21-69, Cl. 57-99.
Durnan, William E., to Auto Research Corporation. Compression fitting particularly for fluid-distributing systems. 3,447,820, 6-3-69, Cl. 285-159.
Durnan, William E., to Auto Research Corporation. Lubricant distribution system. 3,477,545, 11-11-69, Cl. 184-6.
Durney, George P., to ILC Industries, Inc., mesne. Tubular connectors for pressure suit. 3,432,860, 3-18-69, Cl. 2-2.
Durney, Lawrence J.: *See—*
Saubestre, Edward B.; and Durney, Lawrence J.,3,471,376.
Durno, Ronald A.; and Huly, William, to United Aircraft Corporation. Tow boom installation. 3,438,596, 4-15-69, Cl. 244-3.
Duro Test Corporation: *See—*
Thouret, Wolfgang E.; and Kee, Harry, 3,474,278.
Duro-Test Corporation: *See—*
Fontana, Raymond Peter, 3,426,314.
Kayatt, Philip J., 3,435,286.
Thouret, Wolfgang E.; and Strauss, Herbert S., 3,445,719.
Durocher, Hector R.; Wentworth, James A.; and Baer, Ralph H., to Sanders Associates, Inc. Parachute dereefing system. 3,433,442, 3-18-69, Cl. 244-152.
Du Rose, Arthur H.; Willson, Karl S.; and Tejada, Gustavo C., to Kewanee Oil Company, mesne. Article coated with a composite particulate, microporous chromium coating and method of producing said article. 3,428,441, 2-18-69, Cl. 29-183.5
Du Rose, Arthur H.: *See—*
Towle, Jack C.; Du Rose, Arthur H.; Meek, William H., Jr.; and Block, Dale G.,3,428,536.
Duross, Harry Robert, Jr., to Bishop, John Moses, and Simon, Emmett Francis. Elongate hinged container and method of forming same. 3,425,587, 2-4-69, Cl. 220-31.
Du Ross, James W., to Atlas Chemical Industries, Inc. Sugarless confection. 3,438,787, 4-15-69, Cl. 99-134.
Durrands, Kenneth James: *See—*
Molle, Raoul Desire Joseph; and Durrands, Kenneth James,3,442,759.
Durrant, George G. Process for treating pigment particles. 3,436,241, 4-1-69, Cl. 106-308.
Dursch, Friedrich, to Squibb, E. R., & Sons, Inc. Isolation of eburicoic acid. 3,442,916, 5-6-69, Cl. 260-397.1
Dursch, Friedrich: *See—*
Nager, Urs Felix; and Dursch, Friedrich,3,451,992.
Dursch, Walter; Landauer, Franz; Reuter, Martin; and Weckler, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Dye leveller containing an anionic or non-ionic detergent with a foam depressant mixture of an alkyl ester of an alkanoic acid, an alkyl phosphate, and a fatty acid or soap. 3,433,574, 3-18-69, Cl. 8-89.
Durspek, William J., Jr.: *See—*
De Long, Vincent R.; Durspek, William J., Jr.; and Weltha, Marvin D.,3,452,293.
Durst, David R.: *See—*
Beville, Ross H.; Schor, Wayne E.; and Durst, David R.,3,432,082.
Durst, George: *See—*
Comey, Kenneth R., Jr.; and Durst, George,3,477,845.
Durst, George; and Schneider, Kenneth E., to Texas Instruments, Incorporated. Method of bonding a completely imidized preformed polyimide layer to metal. 3,454,445, 7-8-69, Cl. 156-306.
Durst, Jack R., to Pillsbury Company, The. Food bar and method for making. 3,431,112, 3-4-69, Cl. 99-1.
Durst, Jack R., to Pillsbury Company, The. Stable food pieces. 3,434,843, 3-25-69, Cl. 99-1.
Durst, Richard R.; and Phillips, Wendell O., to General Tire & Rubber Company, The. Polymeric titanium compounds and Ti-Al complexes. 3,463,743, 8-26-69, Cl. 252-431.
Durst, Robert C.: *See—*
Shaffer, Detmer B.; and Durst, Robert C.,3,456,848.
Durward, Lloyd S., Jr.; Giger, Walter, Jr.; and Krause, Werner A., to General Electric Company. Insulated busbar assembly and method of making same. 3,427,396, 2-11-69, Cl. 174-68.
Dury, KarlWinter, Franz): *See—*
Reicheneder, Franz; Dury, Karl; and Fischer, Adolf,3,471,493.
Duryea, William James; and Bott, George Spencer, to American Cyanamid Company. Combination agitation and transfer unit for suspended cells. 3,468,520, 9-23-69, Cl. 259-39.
Duryee, Harry I.; and Steiner, John C., to General Motors Corporation. Method of manufacturing a wire cloth regenerator. 3,445,910, 5-27-69, Cl. 29-157.3
Duryee, Peter S., to Motorola, Inc. Voltage controlled digital circuits. 3,452,219, 6-24-69, Cl. 307-272.
Duschinsky, Robert: *See—*
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul,3,468,902.
Duschinsky, Robert; and Hoffer, Max, to Hoffmann-La Roche Inc. Preservation of organic materials from microbial attack with halogenated uracils. 3,467,752, 9-16-69, Cl. 424-251.
Dusenbery, John, Company, Inc.: *See—*
Young, Roger W., 3,472,462.
Dusenbury, Joseph H.: *See—*
Peters, Earl; and Dusenbury, Joseph H.,3,423,166.
Dusheck, George J., Jr., to RCA Corporation. Circuit that analyzes transient signals in both the time and frequency domains. 3,453,540, 7-1-69, Cl. 324-77.
Dussel, Wilhelm: *See—*
Diebold, Adolf; Raichle, Ludwig; and Dussel, Wilhelm,3,441,232.
Dussourd, Jules L., to Ingersoll-Rand Company. Method and apparatus for flame working spallable material. 3,422,911, 1-21-69, Cl. 175-14.
Dust Control Equipment Limited: *See—*
Swift, Peter; and Wells, Alfred J., 3,421,295.
Dusza, John Paul: *See—*
Joseph, Joseph Peter; Dusza, John Paul; and Bernstein, Seymour,3,449,321.
Dusza, John Paul; Joseph, Joseph Peter; and Bernstein, Seymour, to American Cyanamid Company. Method of preparing steroids and products resulting therefrom. 3,483,232, 12-9-69, Cl. 260-397.1
Dutch, Philip R.: *See—*
Ryden, Arthur, 3,469,240.
Dutcher, Dennis L., to Phillips Petroleum Company. Method and apparatus for controlling the drying rate in a wet pellet dryer. 3,482,327, 12-9-69, Cl. 34-12.
Duthie, Robert W.; and Thomas, Robert M., to Automatic Electric Laboratories, Inc. Small exchange stored program switching system. 3,487,173, 12-30-69, Cl. 179-18.
Duthion, Louis; and Doyotte, Claude Charles, to Bertin & Cie. Bellows type fluid cushion confining device for surface effect machines. 3,463,264, 8-26-69, Cl. 180-127.
Duthion, Louis; Hafenscher, Michel Serge Daniel; and Cabassut, Andre Emile Roger, to Societe Bertin & Cie. Jet engine exhaust silencer. 3,436,020, 4-1-69, Cl. 239-265.13
Dutkewych, Oleh B., to Shipley Company, Inc. Electroless copper plating. 3,475,186, 10-28-69, Cl. 106-1.
Dutt, Herbert V.; and Fosnaugh, Harland R., to General Motors Corporation. Energy absorbing steering wheel. 3,440,897, 4-29-69, Cl. 74-552.
Dutta, Ranendra: *See—*
Ghose, Tarun Kumar; and Dutta, Ranendra,3,468,770.
Dutton, Archie D.: *See—*
Barrow, Marvin A., 3,422,865.
Dutton, Ben W.: *See—*
Barrow, Marvin A., 3,422,865.
Dutton, Hubert Wallace, Jr.; and Lees, Ray Frank, to Du Pont de Nemours, E. I., and Company. Method and apparatus for forming nonwoven sheets. 3,433,857, 3-18-69, Cl. 264-24.
Dutton, John C., to General Electric Company. Continuous disk winding and integral radial coil connector for electric transformer and the like. 3,467,931, 9-16-69, Cl. 336-180.
Dutton, Lloyd K.; and Lynch, Francis K., to Mooney Brothers Corp. Centrifugal pump with unitary inlet bushing and wear plate. 3,485,178, 12-23-69, Cl. 103-114.
Dutton, Lloyd K.: *See—*
Mooney, Walter G.; Dutton, Lloyd K.; and Lynch, Francis K.,3,432,187.
Dutton, Richard A.: *See—*
Piper, Robert J.; Craig, James A.; and Dutton, Richard A.,3,429,185.
Dutton, Ross I.: *See—*
Barrow, Marvin A., 3,422,865.
Duurkoop, Hendrik Jan, to Machinefabriek en Technische Handelsonderneming M.H. van der Graaf N.V. Alternating-current motor having electromagnetic braking arrangement. 3,474,273, 10-21-69, Cl. 310-77.
Duva, Robert; and Katz, Bernard. Electrodeposition of copper-tin alloys. 3,440,151, 4-22-69, Cl. 204-44.
Duval, Bruce: *See—*
Waddington, Rogor Strange; and Duval, Bruce,3,457,783.
Waddington, Rogor Strange; and Duval, Bruce,3,471,943.
Duval, Claiborne A., Jr.; and Gainer, Alvis B., to Mobil Oil Corporation. Combined sublimation-leaching process. 3,426,065, 2-4-69, Cl. 260-525.
Duval Corporation: *See—*
Atwood, George E.; Bourne, Douglas J.; and Lamb, Frank E., 3,436,175.

Du Val Development Corporation: *See—*
Young, William O., Jr., 3,422,913.
Duval, Francois: *See—*
Potts, William F.; and Duval, Francois,3,447,880.
Potts, William F.; and Duval, Francois,3,470,386.
Duval, Leonard A. Method of salvaging iron from riverbeds. 3,439,803, 4-22-69, Cl. 209-12.
Duval, Robert Armand, to Independent Lock Company. Key ejector lock with anti-pick feature. 3,425,248, 2-4-69, Cl. 70-421.
Duval, Wenceslau Ramirez. Rubber band projecting pistol. 3,468,296, 9-23-69, Cl. 124-19.
Duvalet, Gilbert Charles Theophile. Instrument for measuring activity per unit length of elongated-radiation emitting body. 3,457,411, 7-22-69, Cl. 250-83.3
Duvall, Harold A.; and Williams, Albert J., to Square D Company. Arc chute. 3,472,982, 10-14-69, Cl. 200-144.
Duvall, Jacque L., to Wyandotte Chemicals Corporation. Iodine-containing nonionic surfactant compositions. 3,438,906, 4-15-69, Cl. 252-106.
Duvall, Jacque L.; and Otrhalek, Joseph V., to Wyandotte Chemicals Corporation. Abrasive cleaning compositions. 3,458,300, 7-29-69, Cl. 51-308.
Duvall, James H.; and Duvall, John J. Fish line jerking device. 3,457,665, 7-29-69, Cl. 43-15.
Duvall, John J.: *See—*
Duvall, James H.; and Duvall, John J.,3,457,665.
Duvall, Lee J. Preparation of lightweight rock products. 3,476,843, 11-4-69, Cl. 264-43.
Duvall, William C.; Ludwick, William R.; and Brion, Albert E., Jr., to Goodyear Tire & Rubber Company, The. Packageable shelter with radio frequency shielding. 3,432,609, 3-11-69, Cl. 174-35.
Duvoisin, Jean A.: *See—*
Buntschuh, Henry C.; and Duvoisin, Jean A.,3,431,525.
Duwel, Dieter: *See—*
Ruschig, Heinrich; Konig, Johann; and Duwel, Dieter,3,449,420.
Duxbury, Frederick Keith; Garforth, John David; and Mc Neeney, Peter, to Imperial Chemical Industries Limited. Process for the manufacture of elastomeric block copolymers containing polyamide and polyester segments. 3,468,975, 9-23-69, Cl. 260-857.
Duxbury, Margaret J. Plaited skirt with multiple plaited expansible waistband. 3,440,664, 4-29-69, Cl. 2-221.
Duymelinck, Jacobus Henricus; and Schootstra, Rients. Valve, mainly from synthetic material such as plastic, for air tubes and method of manufacturing of the shaft of such a valve. 3,465,780, 9-9-69, Cl. 137-234.5
Duyverman, Coenraad J., to Stamicarbon N.V. Conversion of acrolein and methacrolein into the corresponding unsaturated alcohols. 3,466,339, 9-9-69, Cl. 260-638.
Dvirka, Miro, to Hagan Industries, Incorporated. Incinerator and fly ash separator structure therefor. 3,448,704, 6-10-69, Cl. 110-165.
Dvolaitzky, Frajda: *See—*
Ber, Esther; Nau, Pierre F. G.; and Dvolaitzky, Frajda,3,472,868.
Dvonch, William; and Alburn, Harvey E., to American Home Products Corporation. Method of preparing penicillins. 3,453,263, 7-1-69, Cl. 260-239.1
Dvorak, Alfred, to Northern Electric Company Limited. Voltage regulator circuit utilizing a four- layer diode to convert high voltages to low voltages. 3,450,982, 6-17-69, Cl. 323-81.
Dvorak, Jan: *See—*
Krejci, Ota; Krejci, Danuse; Travnicek, Zdenek; and Dvorak, Jan,3,442,266.
Dvorak, Ludvik: *See—*
Jurik, Rudolf; and Dvorak, Ludvik,3,432,869.
Dvoretzky, Isaac; and Mango, Frank D., to Shell Oil Company. Specific olefin synthesis via reaction of ylide and onium salt intermediates. 3,448,167, 6-3-69, Cl. 260-683.15
D & W Rankin Manufacturing Company: *See—*
Braucht, Theodore C., 3,483,353.
Dwan, Arthur Stanley. Device for immobilizing motor vehicles. 3,426,560, 2-11-69, Cl. 70-252.
Dwinell, John L.: *See—*
Mathley, Harry W.; and Dwinell, John L.,3,469,723.
Dwork, Harold K. Diaper cover for infants. 3,451,063, 6-24-69, Cl. 2-224.
Dworsky, Joseph E., Jr.: *See—*
Blood, Alden E.; Dworsky, Joseph E., Jr.; and Hagemeyer, Hugh J., Jr.,3,429,901.
Dwyer, Barry: *See—*
Boulter, Brian Alfred; and Dwyer, Barry,3,469,247.
Dwyer, Francis B., to Colonial Sugar Refining Company Limited, The. Method and apparatus for aligning bodies. 3,426,881, 2-11-69, Cl. 198-30.
Dwyer, Frank J.; and Herdlein, Richard J., to Allied Chemical Corporation. Filled cellular urethanes. 3,441,523, 4-29-69, Cl. 260-2.5
Dwyer, Grant G. Method of and apparatus for use in processing used cartons of corrugated paper stock. 3,447,446, 6-3-69, Cl. 100-3.
Dwyer, Peter W., to General Electric Company. Lubrication-supply system utilizing blow-by gases to maintain a generally constant oil level. 3,458,011, 7-29-69, Cl. 184-103.
Dybal, Daniel: *See—*
Budzynski, Kazimierz; Juszczyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; and Zakrawacz, Stanislaw,3,479,019.
Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw,3,459,417.
Dybal, Kazimierz; Stwora, Eugeniusz; and Suchon, Kazimierz, to Biuro Projektow Prezemyslu Hutniczego 'Biprohut'. Tunnel furnace for hardening of briquetted coke. 3,446,492, 5-27-69, Cl. 263-28.
Dybczak, Stanley E.: *See—*
Cook, Thomas F.; and Dybczak, Stanley E.,3,425,622.
Dybvad, Richard L.; and Johansen, Philip J., to Electro Development Corporation. Mounting apparatus for measurement assembly. 3,486,371, 12-30-69, Cl. 73-88.
Dybvig, Douglas H., to United States of America, Navy, mesne. Process for producing difluoraminotrifluoromehtane. 3,424,797, 1-28-69, Cl. 260-583.
Dybvig, H. Talman: *See—*
Janning, John L., 3,479,561.
Dybvig, Roger S.: *See—*
Janning, John L., 3,479,561.
Dyck, Gerhard J. Lawn sprinkler nozzle. 3,476,322, 11-4-69, Cl. 239-515.
Dyckerhoff & Widmann Kommanditgesellschaft: *See—*
Bormann, Hermann; and Von Schell, Jurgen, 3,471,118.
Finsterwalder, Ulrich, 3,425,076.
Finsterwalder, Ulrich; and Finsterwalder, Klemens, 3,460,446.
Finsterwalder, Ulrich; and Finsterwalder, Klemens, 3,477,080.
Dye, Charles E.: *See—*
Collins, John J.; and Dye, Charles E.,3,452,272.
Dye, Cloyde G.: *See—*
Allen, Edward M.; Dye, Cloyde G.; and Smrdel, Joseph A.,3,477,562.
Dye, Cloyde G., to PPG Industries Inc. Deaeration and compaction of siliceous pigment. 3,441,387, 4-29-69, Cl. 23-313.
Dye, Dorsey A. Retractable stabilizing and leveling support assembly for trailers. 3,454,251, 7-8-69, Cl. 248-354.
Dye, Edgar O. Sewage treatment process. 3,428,554, 2-18-69, Cl. 210-4.
Dye, Garnett J. Nutcracker. 3,435,863, 4-1-69, Cl. 146-15.
Dye, George A. Adjustable belt. 3,440,667, 4-29-69, Cl. 2-325.
Dye House Products, Inc.: *See—*
Renaud, Lionel U.; and Gauthier, Rene G., 3,459,012.
Renaud, Lionel U., 3,459,013.
Dye, John I.: *See—*
Craven, James M.; Dye, John I.; and Hochberg, Jerome,3,481,766.
Craven, James M.; Dye, John I.; and Hoohberg, Jerome,3,481,767.
Dye, John I., to Du Pont de Nemours, E. I., and Company. Synthetic microporour polymeric sheet material coated with an iminated butadiene/methacrylate polymer composition. 3,455,727, 7-15-69, Cl. 117-76.
Dyer, Alvin C., Jr., to Atlas Bolt & Screw Company, The. Scale record paper take-up mechanism. 3,460,640, 8-12-69, Cl. 177-9.
Dyer, Frank F.: *See—*
Bate, Lamont C.; Dyer, Frank F.; and Thacker, Louis H.,3,431,414.
Dyer, James W.; Musig, Morris D.; and Compton, Asa B., said Dyer assor. to KMS Industries, Inc., mesne. Rotating or moving devices for amusement and display. 3,484,631, 12-16-69, Cl. 310-50.
Dyer, James W.; Musig, Morris D.; and Compton, Asa Berkeley, to Hardico Manufacturing Company. Assemblage for converting pulsating motion to rotary. 3,455,049, 7-15-69, Cl. 46-16.
Dyer, Norman D.; and French, Burton W., to Dresser Industries, Inc. Oil derrick erection and support system. 3,483,933, 12-16-69, Cl. 173-39.
Dyer, Norman D.; and Van Winkle, Roy L., to Dresser Industries, Inc. Pipe handling apparatus. 3,446,284, 5-27-69, Cl. 166-49.
Dyer, Richard F.: *See—*
Allison, Louie J.; and Dyer, Richard F.,3,458,986.
Dyer, Richard F., to Eastman Kodak Company. Apparatus for treating filamentary material. 3,453,709, 7-8-69, Cl. 28-1.
Dyer, Richard F., to Eastman Kodak Company. Method of producing volumized yarn. 3,462,813, 8-26-69, Cl. 28-72.
Dyer, Robert F., to Hoover Company, The, mesne. Automatic conversion system for a scrubbing and liquid pickup appliance. 3,460,184, 8-12-69, Cl. 15-320.
Dyer, Virgil R. Tab top can opener. 3,460,411, 8-12-69, Cl. 81-3.34
Dyer, Wesley B.: *See—*
Heacock, Roy C.; and Dyer, Wesley B.,3,481,049.
Dyes, Alvin B. Secondary recovery method using alternate slugs of gas and water. 3,472,320, 10-14-69, Cl. 166-273.
Dyfoam Corporation: *See—*
Oxel, Berton, 3,457,217.
Dyke, Herbert Gordon. Expansible carrying case. 3,443,671, 5-13-69, Cl. 190-43.
Dyke, Herbert Gordon. Expansible carrying case with band latch. 3,450,237, 6-17-69, Cl. 190-44.
Dyke, Herbert Gordon. Pencil clip. 3,470,622, 10-7-69, Cl. 24-11.

Dyke, Herbert Gordon. Expansible carrying case with web having two stable states. 3,480,118, 11-25-69, Cl. 190-44.
Dyke, Stanley J.; and Tartavel, Marcel L., to Canadian Vickers Limited. Balanced seal for centrifugal pumps. 3,472,169, 10-14-69, Cl. 103-111.
Dyke, Walter P.: *See—*
Anderson, Robert L.; Dyke, Walter P.; and Grundhauser, Frank J.,3,432,663.
Lewis, Robert H.; Barbour, John P.; Dyke, Walter P.; and Grundhause, Frank J.,3,482,096.
Dyke, Walter P.; Grundhauser, Frank J.; and Barbour, John P., to Field Emission Corporation. Apparatus for simultaneously producing X-ray and electron radiographs of the same object. 3,428,803, 2-18-69, Cl. 250-65.
Dykema, James A.; and Johnson, Roger D., to Donnelly Mirrors, Inc. Safety rearview mirror with flexible glass adhered to a flexible backing support. 3,427,095, 2-11-69, Cl. 350-288.
Dykema, James A.; and Johnson, Roger D., to Donnelly Mirrors, Inc. Shatter resistant rearview mirror. 3,427,096, 2-11-69, Cl. 350-288.
Dykeman, Edgar G. M., to FMC Corporation. Pallet stacking apparatus. 3,478,897, 11-18-69, Cl. 214-6.
Dykes, Carrel Hilton, to Northern Electric Company. Solid state circuit for controlling the temperature of an electric appliance such as a blanket. 3,461,273, 8-12-69, Cl. 219-501.
Dykinga, Richard J., to Pet Chemicals, Inc. Aerosol valve clip. 3,424,354, 1-28-69, Cl. 222-402.14
Dykstra, Stanley J.: *See—*
Lish, Paul Merrill; Weikel, John H.; and Dykstra, Stanley J.,3,435,114.
Dykzeul, Theodore J.: *See—*
Caparone, Michael J.; and Dykzeul, Theodore J.,3,439,699.
Dykzeul, Theodore J., to Robertshaw Controls Company. Electric terminal. 3,434,100, 3-18-69, Cl. 339-196.
Dykzeul, Theodore J.; and Mc Kinney, Richard W., to Robertshaw Controls Company. Thermostatic control device. 3,467,119, 9-16-69, Cl. 137-66.
Dykzeul, Theodore J.; and Scharer, Edward B., to Robertshaw Controls Company. Dual stage control device. 3,448,764, 6-10-69, Cl. 137-505.41
Katchka, Jay R.; and Dykzeul, Theodore J.,3,447,775.
Caparone, Michael John; and Dykzeul, Theodore John,3,441,049.
Caparone, Michael John; and Dykzeul, Theodore John,3,471,087.
Dyle, Daniel J.: *See—*
Moore, John R.; and Dyle, Daniel J.,3,450,229.
Dym, Herbert: *See—*
Bogholtz, Richard, Jr.; and Dym, Herbert,3,452,205.
Dym, Herbert, to International Business Machines Corporation. Radiation scanner, employing constant current means. 3,432,670, 3-11-69, Cl. 250-211.
Dymo Industries, Inc.: *See—*
Brennan, Edmund F.; and Hawes, John A., 3,435,758.
Hull, Milton E., 3,479,683.
Lee, James H., 3,480,371.
Lueck, Laurence B.; and Morley, Ronald I., 3,435,759.
McMahon, John, 3,485,335.
Mullen, James William; and de Bos, Leo Tan, 3,433,152.
Quinn, John J., 3,456,537.
Rydberg, Clarence R.; and Knight, George, 3,457,856.
Dymon, Joseph J., to General Telephone & Electronics Laboratories Incorporated. Electroluminescent device and dielectric medium therefor. 3,421,037, 1-7-69, Cl. 313-108.
Dymond, Richard W., to TRW Inc. Skid control device. 3,420,580, 1-7-69, Cl. 303-21.
Dyna Magnetic Devices, Inc.: *See—*
Hofer, Alan, 3,454,896.
Dyna Magnetic Devices,Inc.: *See—*
Sebesta, George J.; and Carlisle, Richard W., 3,432,622.
Dyna Structures: *See—*
Perry, Edward D.; and Hart, Wayne C., 3,429,092.
Dyna Systems, Inc.: *See—*
Reynolds, Rollin A., 3,442,485.
Dyna-Med, Inc.: *See—*
Hare, Glenn F., 3,477,428.
Dynabulk Corporation: *See—*
Paton, Hamilton Neil King, 3,421,663.
Paton, Hamilton Neil King, 3,421,665.
Paton, Hamilton Neil King, 3,456,834.
Dynac Corporation: *See—*
Weston, Charles D.; Gagnon, William J., Jr.; and Reynolds, Dwight W., 3,462,608.
Dynacast Limited: *See—*
Perrella, Guido, 3,482,301.
Dynachem Corporation: *See—*
Giangualano, Michael N.; Martenson, Irvin W.; and Ott, Lawrence H., 3,462,267.
Dynair Limited: *See—*
Elmer, Arthur Ernest Henry, 3,436,017.
Elmer, Arthur Ernest Henry, 3,446,430.
Elmer, Arthur Ernest Henry, 3,467,071.
Dynamic Instrument Corporation: *See—*
Mas, Joseph A., 3,435,318.
Mas, Joseph A., 3,453,520.
Mas, Joseph A., 3,460,019.
Dynamic Precision Control Corporation: *See—*
Van Ostrand, William F., 3,431,474.
Dynamics Corporation of America: *See—*
Dugan, William F.; and Swanke, Roy L., 3,447,000.
Massa, Frank, 3,460,061.
Massa, Frank, Jr., 3,478,309.
Ritter, George E.; and Beam, Edwin A., 3,452,915.
Ruotolo, Michael, 3,432,801.
Smith, Peter B., 3,477,013.
Swanke, Roy L.; and Raymond, Gordon H., 3,421,742.
Swanke, Roy L., 3,422,330.
Dynamics Research Corporation: *See—*
Anderegg, John S., Jr.; and Fuller, Chester A., 3,482,106.
Cronin, David V., 3,483,389.
Foskett, Roger D., 3,449,588.
Thomas, Lowell E., 3,449,221.
Dynamit Nobel Aktiengesellschaft: *See—*
Ballreich, Kurt; Bendler, Hellmut; and Gawlick, Heinz, 3,455,244.
Beckmann, Rolf; Kleefisch, Karl-Heinz; and Dobrikat, Wolfgang, 3,452,123.
Behr, Erich; and Hass, Hansjurgen, 3,444,133.
Berthmann, Adolf; and Lingens, Paul, 3,472,713.
Bode, Helmut; and Nicodemus, Joachim, 3,427,921.
Buning, Robert, 3,457,330.
Buning, Robert; Konermann, Hans-Ewald; Diessel, Karl-Heinz; and Bier, Gerhard, 3,459,692.
Buning, Robert; Diessel, Karl-Heinz; and Konermann, Hans-Ewald, 3,462,402.
Daum, Gerhard; Modic, Rudolf; and Richtzenhain, Hermann, 3,435,045.
Dilchert, Heinz; Cramm, Rudolf; and Fibranz, Joachim, 3,442,084.
Gawlick, Heinz; and Umbach, Hans, 3,435,765.
Gawlick, Heinz; and Bendler, Hellmut, 3,439,618.
Gawlick, Heinz; Stahlmann, Rudolf; and Umbach, Hans, 3,444,812.
Gawlick, Heinz; Marondel, Gunther; Bendler, Hellmut; and Siegelin, Werner, 3,468,730.
Gawlick, Heinz; and Stahlmann, Rudolf, 3,476,049.
Hartel, Heinz; Nebel, Ilse Ursula; and Bier, Gerhard, 3,427,286.
Hartel, Heinz; and Bier, Gerhard, 3,449,413.
Hartel, Heinz; and Nebel, Ilse, 3,455,882.
Hartel, Heinz; and Bier, Gerhard, 3,459,724.
Hass, Karl; Kohlgagen, Walter; Czehovsky, Gunther; and Konermann, Hans-Ewald, 3,436,324.
Hauck, Gerhard F.; Hass, Karl W.; and Lenz, Arnold, 3,458,552.
Herzog, Hermann; and Hintze, Woldemar, 3,473,982.
Hintze, Woldemar, 3,424,087.
Huster, Franz-Joseph, 3,427,283.
Ismail, Mohamed Roshdy, 3,442,855.
Ismail, Mohamed Roshdy; and Kotzsch, Hans-Joachim, 3,481,964.
Ismail, Roshdy M., 3,431,129.
Joch, Erich, 3,433,157.
Karp, Johann; and Krebsbach, Friedhelm, 3,430,988.
Kirchner Wilhelm; and Olivier, Wilhelm, 3,452,578.
Kotzsch, Hans-Joachim; and Ismail, Roshdy M., 3,423,361.
Kotzsch, Hans-Joachim; and Ismail, Roshdy M., 3,423,362.
Kotzsch, Hans-Joachim; and Ismail, Mohamed Roshdy, 3,446,774.
Langenhoff, Ferdinand; and Lenz, Arnold, 3,452,012.
Lenz, Arnold; Hass, Karl; and Epler, Hans, 3,460,906.
Lenz, Arnold; and Rogler, Walter, 3,468,621.
Ludolphy, Erich; and Berthmann, Adolf, 3,438,823.
Ludolphy, Erich; Martin, Gerhard; and Berthmann, Adolf, 3,459,608.
Menke, Helmut; and Roh, Peter, 3,476,623.
Muller, Hans Rudolf, 3,451,773.
Petters, Willi J.; and Petters, Claus, 3,425,586.
Pungs, Wolfgang; Buning, Robert; and Diessel, Karlheinz, 3,481,893.
Ratz, Heinz; and Schubel, Hans, 3,455,884.
Reigelmayer, Peter; and Turk, Helmut, 3,451,239.
Richtzenhain, Hermann; and Riegger, Paul, 3,463,826.
Schade, Gerhard; and Blaschke, Franz, 3,476,708.
Schmoll, Kurt, 3,434,997.
Schneider, Johannes; and Pungs, Wolfgang, 3,449,299.
Stadler, Hans; Gawlick, Heinz; and Umbach, Hans, 3,427,972.
Stadler, Hans; and Gawlick, Heinz, 3,442,205.
Stadler, Hans; Gawlick, Heinz; and Marondel, Gunther, 3,446,146.
Vajna, Sandor, 3,448,043.
Vogt, Wilhelm; and Richtzenhain, Hermann, 3,475,497.
Wienand, Michael; and Primessing, Franz, 3,461,628.

Dynamit Nobel Aktiengesellschaft Patentabteilung: *See—*
Richtzenhain, Hermann; and Stephan, Rudolf, 3,445,532.
Dynapower Systems Corporation of California: *See—*
Kendall, William Denis, 3,457,924.
Dynasciences Corporation: *See—*
De La Cierva, Juan; Perlmutter, Adolf A.; and Fraser, David B., 3,427,504.
Wilson, Robert K., 3,486,502.
Dynatech Corporation: *See—*
Hoagland, Lawrence C., 3,443,049.
Hurwitz, Mathew; Reynolds, John M.; and Fahimian, Edward J., 3,423,306.
Dynatran Corporation of Illinois: *See—*
Zinga, William L., 3,429,267.
Dynatron, Incorporated: *See—*
Voigt, Robert H.; and Lowe, David W., 3,425,009.
Voigt, Robert H., 3,469,250.
Dynell Electronics Corporation: *See—*
Hulland, Burton L., 3,475,683.
Dynes, Barry, to Associated Portland Cement Manufacturers Limited. Two-colour radiation ratio pyrometer. 3,454,769, 7-8-69, Cl. 250-83.3
Dyre, Eddie L.; and Greacen, John A., to Carrier Corporation. Maintaining effectiveness of additives in absorption refrigeration systems. 3,452,550, 7-1-69, Cl. 62-85.
Dyre, Morgens, to Danfoss A/S. Terminal connections for amorphous solid-state switching devices. 3,432,729, 3-11-69, Cl. 317-234.
Dyre, Morgens, to Danfoss A/S. Protection circuits for signalling lines. 3,436,601, 4-1-69, Cl. 317-61.5
Dyre, Morgens, to Danfoss A/S. Fuel igniting and flame sensing resistor with fuel feed control. 3,454,345, 7-8-69, Cl. 431-66.
Dyson, Cyril W. C.: *See—*
Robertson, Gavin W. E.; and Dyson, Cyril W. C.,3,477,478.
Dyson, John J., to Parker Pen Company, The. Non-aqueous ink. 3,486,912, 12-30-69, Cl. 106-22.
Dyson, Jos., & Sons, Inc.: *See—*
Wolf, Theodore L., 3,454,971.
Dyson-Kissner Corporation, The: *See—*
Atwood, Rawson; and Calby, Joseph W., 3,451,639.
L'Allemand, Charles C., 3,467,327.
Dzamba, Edward T., to Westinghouse Electric Corporation. Door assembly. 3,426,480, 2-11-69, Cl. 49--410
Dzedzej, Henry S., to Wirz, A. H., Inc. Apparatus and process for cleaning collapsible tubes. 3,442,707, 5-6-69, Cl. 134-24.
Dzenis, Edward J. Casing machine. 3,452,508, 7-1-69, Cl. 53-48.
Dzianott, Tadeusz S., to International Harvester Company. Engine inlet passage swirl device. 3,422,805, 1-21-69, Cl. 123-188.
Dzierzanowski, Frank J.: *See—*
Haden, Walter L., Jr.; and Dzierzanowski, Frank J.,3,433,587.
Dziggel, Reiner: *See—*
Reisacher, Josef; and Dziggel, Reiner,3,455,286.
Dziki, Michael Mieczslaw: *See—*
Schultz, George; and Dziki, Michael Mieczslaw,3,442,743.
Dziuk, Peter, to Staedtler, J. S., Kommanditgesellschaft. Fine-line writing marker. 3,427,114, 2-11-69, Cl. 401-199.
Dziuk, Peter; and Ertl, Willi, to Staedtler, J. S., Kommanditgesellschaft. Cutting head for a lead sharpening device. 3,424,210, 1-28-69, Cl. 144-28.72
Dziulak, Paul. RNA protein synthesis model. 3,445,940, 5-27-69, Cl. 35-20.
D'Zmura, Cornelius J.,1/3 to Demura, George N. Game having circular playing area with radially extending net barriers. 3,452,985, 7-1-69, Cl. 273-30.
Dzula, Gregory. Apparatus for determining the coordinates of points. 3,449,833, 6-17-69, Cl. 33-1.
Dzung, Lang Shuen: *See—*
Jenny, Ernst; and Dzung, Lang Shuen,3,479,537.
Dzung, Lang Shuen, to Aktiengesellschaft Brown, Boveri & Cie. Magnetohydrodynamic machine. 3,428,835, 2-18-69, Cl. 310-11.
Dzus Fastener Co., Inc.: *See—*
Dzus, Theodore; and Gunther, Conrad J., 3,473,203.
Simpson, Ronald Frank; and Slater, Frank Robert, 3,462,816.
Smith, Howard John Leonard, 3,486,205.
Dzus, Theodore; and Gunther, Conrad J., to Dzus Fastener Co., Inc. Fastener stud assembly. 3,473,203, 10-21-69, Cl. 24-221.
E & B Incorporated: *See—*
Boyer, Charles J., 3,444,561.
Simpson, Jack N.; and Boyer, Charles J., 3,457,565.
E & E Engineering Company: *See—*
Link, Jack W., 3,460,822.
E & M Laboratories: *See—*
Schneider, Cyril B., 3,445,790.
E & T Company: *See—*
Johnson, Rollie C.; and Melchor, Eugene B., 3,474,774.
E-H Research Laboratories, Inc.: *See—*
Goodale, Paul E., 3,423,601.
Stinson, Willis D., Jr., 3,443,23 .
E-I-M Company Incorporated: *See—*
Hune, Ronald G.; and Boehm, Robert F., 3,470,904.
E-Z Clasp Inc.: *See—*
Ellin, Nils A., 3,426,361.
E-Z Manufacturing Company: *See—*
Rehm, Carl L., 3,485,712.
E-Z Mills Inc.: *See—*
Townlee, Harold E., Jr., 3,477,257.
E-Z Mount Corporation: *See—*
Moyer, Paul H., 3,480,241.
E-Z Por Corporation: *See—*
Levin, Myron M., 3,453,949.
Eachus, Joseph J.; and Bagnaschi, Charles L., to Honeywell Inc. Manual data entry device. 3,469,242, 9-23-69, Cl. 340-172.5
Eades Joseph R., to Singer Company, The. Vacuum cleaner with nozzle height adjusting mechanism. 3,439,375, 4-22-69, Cl. 15-354.
Eads, Charles L.: *See—*
Davidson, Robert E.; Eads, Charles L.; and Soter, Samuel A.,3,479,851.
Eady, Edsell M., to Hall, Robert M. Cap. 3,467,270, 9-16-69, Cl. 215-40.
Eagell, Eric Alec, to Distillers Company Limited, The. Apparatus and method for reducing fouling of underwater surfaces. 3,441,439, 4-29-69, Cl. 134-37.
Eager, George S., Jr.; and Bader, George, to General Cable Corporation. Method and apparatus for automatic measurements of corona inception and extinction voltages. 3,430,137, 2-25-69, Cl. 324-54.
Eager, George S., Jr.; and Szilard, Julius A., to General Cable Corporation. High voltage cable. 3,459,871, 8-5-69, Cl. 174-25.
Eagland, Harold W., to Palletower Limited. Frames for stacking pallets. 3,447,490, 6-3-69, Cl. 108-53.
Eagle Engineering Company Limited: *See—*
Merther, Kenneth Leslie, 3,455,471.
Eagle, John H., to Eastman Kodak Company. Apparatus for film type identification for film that is transferred from one magazine into another during the exposure process. 3,460,449, 8-12-69, Cl. 95-1.
Eagle, John H.; Harvey, Donald M.; and Seebech, Robert W., to Eastman Kodak Company. Level sensing automatic exposure control for daylight and flash. 3,455,218, 7-15-69, Cl. 95-10.
Eagle, John H.: *See—*
Nerwin, Hubert; and Eagle, John H.,3,482,681.
Stimson, Allen G.; and Eagle, John H.,3,440,938.
Eagle Manufacturing Company: *See—*
Richmond, Roy H., Jr., 3,469,747.
Eagle Rubber Co., Inc.: *See—*
Behrendsen, Kenneth R., 3,452,986.
Behrendsen, Kenneth R., 3,468,821.
Randolph, Clarence L., 3,478,132.
Eagle-Picher Industries, Inc.: *See—*
Henley, John W., 3,451,228.
Kiefer, Henry, 3,451,095.
Morris, Robert R., 3,428,240.
Nelson, John R., Jr.; and Hayes, Tyler K., 3,461,838.
Plankenhorn, William Joseph, 3,484,357.
Schilling, Carl O., 3,446,670.
Eagle-Picker Company, The: *See—*
Van Dolah, Harry J.; and Linhart, Otto C., 3,481,757.
Eagleson, Edwin W.: *See—*
Vitale, Donald J.; Eagleson, Edwin W.; Harris, Thomas B.; and Menichelli, Vencent J.,3,461,801.
Eakin, Gerald R.; and Pontius, James R., to National Machinery Company, The. Method and apparatus for forging blanks. 3,466,917, 9-16-69, Cl. 72-354.
Eakins, Paul W., to Foster Bros., Manufacturing Co. Folding sofa bed structure. 3,435,468, 4-1-69, Cl. 5-13.
Eakins, William J., to Monsanto Company, mesne. Method of making polymer coated inorganic filamentary materials. 3,425,862, 2-4-69, Cl. 117-126.
Eakins, William J.; and Humphrey, Richard A., to De Bell & Richardson, Inc. Glass-resin composite structure. 3,425,454, 2-4-69, Cl. 138-141.
Eakins, William J.; and Wimpfheimer, A., & Bro., Inc. Method of making improved glass fiber material and laminates thereof. 3,451,886, 6-24-69, Cl. 161-93.
Eakins, William S. Apparatus and method for continuous filtering. 3,460,674, 8-12-69, Cl. 210-77.
Eakins, William V. Combination stepladder and vertically movable platform. 3,476,212, 11-4-69, Cl. 182-103.
Ealing Corporation, The: *See—*
Williams, Thomas Walley, III, 3,429,544.
Eames, Keith, to Rolls-Royce Limited. Fuel control system for a gas turbine engine. 3,420,056, 1-7-69, Cl. 60-39.28
Eames, Loren W.: *See—*
Bratingham, Charles R.; Beekman, Bruce E.; and Eames, Loren W.,3,434,715.
Eanes, Bishop & Sons Limited: *See—*
Eaves, Dennis Robert; Bergemann, Horst; and Bishop, William Gordon Groves, 3,449,985.

Eannarino, Joseph M.; and Granieri, Michael S., Jr., to Tri-Sciences Industries, Inc. Apparatus for the treatment of exhaust gases. 3,435,613, 4-1-69, Cl. 60-30.
Eannarino, Joseph M.; and Granieri, Michael S., Jr. Hair retainer isolator. 3,446,214, 5-27-69, Cl. 132-49.
Eardley, Stephen; Gregory, Gordon Ian; Lazenby, John Kevin; and Long, Alan Gibson, to Glaxo Laboratories Limited. Process for the manufacture of derivatives of cephalosporin C. 3,479,350, 11-18-69, Cl. 260-243.
Earhart, Walter, to Trane Company, The. Fan scroll. 3,485,443, 12-23-69, Cl. 230-233.
Earl and Wright: *See—*
Martinovich, William M., 3,485,050.
Earl, Dallas W. Easy-to-mount and easy-to-dismount storage container. 3,443,851, 5-13-69, Cl. 312-245.
Earl, J Curtis. Collapsible grill. 3,461,634, 8-19-69, Cl. 52-645.
Earl, John A., to Physical Science Corporation. Ceramic material and method. 3,446,637, 5-27-69, Cl. 106-49.
Earl, John A., to Physical Sciences Corporation. Ceramic material. 3,455,708, 7-15-69, Cl. 106-53.
Earl, Robert Pendleton, to Abbott Laboratories. Catheter insertion device. 3,472,232, 10-14-69, Cl. 128-348.
Earle, Henry L., to Nest, Inc. Protective device for moving stairways. 3,458,025, 7-29-69, Cl. 198-16.
Earle, Ralph H.; Schmalz, Alfred C.; and Soucek, Charles A., to Hercules, Incorporated. Polyolefin compositions containing a basic polyamide dye site additive. 3,433,853, 3-18-69, Cl. 260-857.
Earle, Roger T., Jr.; and Sumey, Ivan E., to General Electric Company. Gas turbine engine rotors. 3,433,020, 3-18-69, Cl. 60-226.
Earle, William E.: *See—*
Flanagan, Allan L.; and Earle, William E.,3,458,722.
Earley, Bert, to Central Electricity Generating Board. Portable potentiometric recorder testing and calibrating device. 3,440,533, 4-22-69, Cl. 324-73.
Earling, Leonard E. Control system for preventing the overload of relay windings. 3,423,640, 1-21-69, Cl. 317-123.
Earling, Leonard E. Sound generator. 3,432,849, 3-11-69, Cl. 340-388.
Earling, Leonard E. Dictation privacy system. 3,441,686, 4-29-69, Cl. 179-100.1
Earling, Roy; and Scheuerman, Frank J., 33 1/3% to Bentham, Harold W.,. Apparatus and process for producing frozen confection packages with spoon projecting through lid. 3,431,695, 3-11-69, Cl. 53-15.
Earlougher, Robert C., Jr., to Marathon Oil Company. In situ steam generation and combustion recovery. 3,482,630, 12-9-69, Cl. 166-260.
Earls, David E.: *See—*
Gratrix, Alfred E., Sr.; and Earls, David E.,3,430,222.
Early, Jack D.: *See—*
Chupp, John P.; and Early, Jack D.,3,452,142.
Early, Jack D.; and Chupp, John P., to Monsanto Company. Adult housefly control agents. 3,454,638, 7-8-69, Cl. 260-559.
Earney, George K., to S-F-D Laboratories, Inc. Mixed line composite magnetron interaction circuits of forward wave and backward wave types. 3,437,875, 4-8-69, Cl. 315-39.3
Earp, Charles William; and Overbury, Francis Giles, to International Standard Corporation. Doppler VOR systems. 3,448,453, 6-3-69, Cl. 343-106.
Earp, James F., to Ex-Cell-O Corporation. Clip feeding device. 3,426,501, 2-11-69, Cl. 53-48.
Earth Sciences, Inc.: *See—*
Stevens, Douglas N.; Bloom, Duane N.; and Bisque, Ramon E., 3,465,593.
Easco Leasing Corporation: *See—*
Townsend, Edwin F., 3,451,872.
Townsend, Edwin F., 3,452,712.
Townsend, Edwin F.; and Young, Stanley C., 3,477,896.
Easco Products, Inc.: *See—*
O'Connor, Thomas J., 3,427,423.
Easley, Ralph S.; and Meyer, Donald J., to Park-Ohio Industries, Inc. Cam shaft hardener. 3,467,805, 9-16-69, Cl. 219-10.57
Eason, Ward: *See—*
Smith, Delford M.; and Eason, Ward,3,463,398.
East, Anthony Julian: *See—*
Davies, Trevor; East, Anthony Julian; and Mc Creath, Michael King,3,432,467.
Delves, Allan Kenneth; East, Anthony Julian; McCreath, Michael King; and Roberts, John Francis Lloyd,3,471,446.
East Chicago Machine Tool Corporation: *See—*
Raab, Hilary A., 3,438,319.
Raab, Hilary A., 3,438,320.
East, Clarence Robert; and Mallinger, Morton A., to Pan American Petroleum Corporation. Forming fractures in the desired direction in earth formations. 3,431,977, 3-11-69, Cl. 166-281.
East, Harvey James, to Shackman, David, & Sons Limited. Linkage having L-shaped connecting pins. 3,482,394, 12-9-69, Cl. 59-80.
East, Robert D., to General Gas Light Company. Self-priming impeller pump with flow demand control and selective primer and running circuits. 3,469,528, 9-30-69, Cl. 103-25.
Eastcott, Peter de Hertel, to Canadian General Electric Company Limited. Tension control system. 3,458,151, 7-29-69, Cl. 242-75.44
Eastcott, Peter de Hertel, to Canadian General Electric Company Limited. System for regulating web tension. 3,463,414, 8-26-69, Cl. 242-75.44
Eastcott, Peter de Hertel, to Canadian General Electric Company Limited. Apparatus for controlling web tension. 3,472,439, 10-14-69, Cl. 226-195.
Easter, Brian, to General Electric and English Electric Companies Limited, The. Microwave amplifiers utilising tunnel diodes or other negative-resistance elements. 3,484,711, 12-16-69, Cl. 330-61.
Easter, Charles Glazin: *See—*
McLean, David William; and Easter, Charles Glazin,3,452,785.
Easter, Finis C., to Radio Corporation of America. Current limiting voltage regulator. 3,445,751, 5-20-69, Cl. 323-9.
Easterling, Gene B.: *See—*
Page, Russell D.; and Easterling, Gene B.,3,444,936.
Page, Russell D.; and Easterling, Gene B.,3,470,967.
Easterling, Mahlon F.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,472,019.
Easterly, Donald O., to Eastman Kodak Company. Control device for electric drive movie cameras. 3,475,090, 10-28-69, Cl. 352-174.
Eastern Bearings & Manufacturing Co., Inc.: *See—*
Pizzitola, Vito J., 3,424,505.
Eastern Case Parts Inc.: *See—*
Burman, Joseph O.; and Desrosiers, Louis L., 3,470,599.
Eastern Company, The: *See—*
Kenyon, Theodore W., 3,468,163.
Ogg, Robert D., 3,481,044.
Ogg, Robert D., 3,482,233.
Pastva, John V., 3,484,127.
Pastva, John V., Jr., 3,449,005.
Pastva, John V., Jr., 3,476,410.
Eastern Products Corporation: *See—*
Znamirowski, Henry, 3,427,679.
Znamirowski, Henry; and Roles, David J., 3,457,688.
Eastern Seaboard Plastics, Inc.: *See—*
Schicklein, Burghard K., 3,441,357.
Eastern Target Company, Inc.: *See—*
Lueddeke, Raymond Paul; and Lueddeke, Louis, 3,431,598.
Eastin, Edward H. Deacceleration valve. 3,440,931, 4-29-69, Cl. 91-407.
Eastin, Edward H. Hydraulic door closer. 3,456,282, 7-22-69, Cl. 16-52.
Eastland, Franklin M., to United States of America, Navy, mesne. Balanced gating circuit for radar receiver. 3,461,320, 8-12-69, Cl. 307-254.
Eastman, David P., to Clevite Corporation. Automatic underwater exploder. 3,427,974, 2-18-69, Cl. 102-81.
Eastman, Donald R., to Eastman Kodak Company. Photoconductographic material and process of preparation. 3,432,406, 3-11-69, Cl. 204-18.
Eastman, James M.: *See—*
Hyer, James M.; and Eastman, James M.,3,486,520.
Eastman, James Middleton, to Bendix Corporation, The. Air compressor surge control apparatus. 3,473,727, 10-21-69, Cl. 230-115.
Eastman, James M., to Bendix Corporation, The. Fluidic temperature sensor and pressure regulator. 3,438,258, 4-15-69, Cl. 73-388.
Eastman, James M., to Bendix Corporation, The. Fluid remote position indicator. 3,486,416, 12-30-69, Cl. 91-47.
Eastman Kodak Company: *See—*
Abbott, Thomas I.; and Huedepohl, Hugo F., 3,473,926.
Ackroyd, Muriel D., 3,443,864.
Allentoff, Norman; and Fogler, Henry Harrison, 3,477,852.
Allison, Louie J.; and Dyer, Richard F., 3,458,986.
Ammons, James William; Mauer, Paul Bernard; Reynolds, George A.; and Van Allan, James A., 3,462,706.
Ammons, Robert L., 3,435,605.
Anselm, Courtenay D.; and Reitz, Kenneth R., 3,458,574.
Bacon, Robert E.; and Fogg, David B., 3,425,857.
Bacon, Robert E.; and Barbier, Jean F., 3,447,927.
Bailey, Joseph, 3,440,051.
Bailey, Joseph, 3,468,883.
Bailey, Joseph, 3,469,985.
Bard, Charleton C.; and Vogt, Howard W., 3,451,817.
Barkey, Kenneth Thomas, 3,463,760.
Bartholomay, Robert P.; Robinson, Wilbur D.; and Farrar, Harold J., 3,440,126.
Bates, Thomas R., 3,432,299.
Beach, Joseph L.; and Jackson, Winston J., Jr., 3,437,639.
Beavers, Dorothy J.; Wilson, Charles V.; and Allen, Charles F. H., 3,426,029.
Beavers, Leo E.; and Bush, Walter M., 3,445,228.
Becker, Richard W., 3,477,849.
Beckett, Clark; and Poppink, Everett H., 3,447,926.
Becquerel, Georges Paul Marie, 3,477,847.

Beeler, Albert D.; and Whitley, Marvin R., 3,466,223.
Bell, Alan; and Strickland, Thomas Howard, 3,463,742.
Blackmer, Leroy L., 3,453,640.
Bloemendaal, John F.; and Klauss, Ralph E., 3,470,808.
Blood, Alden E.; Dworsky, Joseph E., Jr.; and Hagemeyer, Hugh J., Jr., 3,429,901.
Blood, Alden E.; Vinyard, Herschel T.; and Phillips, Glenn L., 3,466,149.
Blood, Alden Edward; Heller, James Davis; and Hagemeyer, Hugh J. Jr., 3,424,731.
Bloom, Melvin S.; and Hill, James A., 3,458,506.
Blount, William W., Jr.; Gibson, Roger E.; and Tholstrup, Clarence E., 3,440,210.
Boon, Joseph L., 3,471,229.
Borden, Douglas G.; Unruh, Cornelius C.; and Merrill Stewart H., 3,453,237.
Boudin, Georges M.; and Rabus, Annie, 3,444,370.
Brannock, Kent C., 3,432,506.
Brannock, Kent C., 3,475,494.
Brannock, Kent C., 3,481,936.
Brannock, Kent C., 3,481,939.
Bright, Alan; Mijovic, Miroslav V.; and Saunders, David G., 3,475,172.
Brooker, Leslie G. S.; and Van Lare, Earl J., 3,431,111.
Brooks, Dugald A., 3,425,834.
Brooks, Dugald A., 3,458,318.
Brown, Edward A., 3,449,903.
Brown, Morris E., 3,463,411.
Brunson, Marion O., 3,481,910.
Brunson, Marion O.; and McGillen, William D., 3,484,403.
Brunson, Marion Otis, 3,433,777.
Bunting, Leslie J., 3,451,636.
Bunting, Leslie J., 3,468,498.
Burness, Donald M.; Kennard, Kenneth C.; and Cossar, Bernard C., 3,453,281.
Burpitt, Robert D., 3,454,677.
Caldwell, John R.; and Hedberg, David G., Jr., 3,431,322.
Caldwell, John R., 3,432,472.
Caldwell, John R., 3,440,218.
Caldwell, John R.; and Hill, Edward H., 3,449,303.
Caldwell, John R., 3,459,584.
Caldwell, John R., 3,460,896.
Caldwell, John R.; and Gilkey, Russell, 3,464,852.
Caldwell, John R., 3,484,339.
Calloway, George P., Jr.; and Williams, Robert F., Jr., 3,485,652.
Carnall, Edward, Jr., 3,437,724.
Carnall, Edward, Jr.; Hatch, Sherley E.; Parsons, William F.; and Weagley, Robert J., 3,453,215.
Carnall, Edward, Jr.; Parsons, William F.; and Roy, Donald W., 3,475,116.
Carnall, Edward, Jr., 3,476,690.
Carnall, Edward, Jr.; and Mauer, Paul B., 3,482,009.
Carroll, John F., Jr., 3,476,596.
Casebeer, Oran T., 3,467,827.
Cash, George O., Jr.; and Joyner, Frederick B., 3,432,514.
Cawley, John D.; and O'Grady, Mary Patricia, 3,423,440.
Cawley, John D.; and Hawks, Orris D., 3,459,492.
Chandler, Charles G.; and Eells, Rex, 3,450,256.
Chandler, Jasper S., 3,469,899.
Chechak, Albert J.; and Robeson, Charles D., 3,432,566.
Chechak, Albert J.; and Robeson, Charles D., 3,446,801.
Clement, Pierre; Gombert, Jean-Marie; and Petit, Rene, 3,477,950.
Clement, Pierre L.; and Lestienne, Andre F. P., 3,464,560.
Coney, Charles H.; and Draper, Willie E., 3,423,225.
Connell, James; and Comerford, Thomas G., 3,436,558.
Coover, Harry W., Jr.; and Shields, Donald J., 3,449,472.
Coover, Harry W., Jr.; and McConnell, Richard L., 3,455,871.
Coover, Harry W., Jr.; and Fassett, David W., 3,483,870.
Crane, Carlton L., 3,455,901.
Crane, Carlton L.; and Williams, Robert F., Jr., 3,467,746.
Crane, Carlton L.; and Malm, Carl J., 3,485,816.
Critchell, Dean J., 3,485,902.
Dale, John I., III; and Weaver, Max A., 3,422,133.
Dale, John I., III; Straley, James M.; and Weaver, Max A., 3,446,791.
Dale, John I., III; and Weaver, Max A., 3,453,256.
Davis, Burns; and Lyon, Herbert Ralph, 3,461,169.
Davis, Herman E.; and Ownby, James C., 3,447,917.
Davis, John H.; and Coney, Charles H., 3,475,356.
De Jager, Donald, 3,449,041.
Delaire, Gerard V.; and Peace, Robert G., 3,454,694.
Delmore, Paul J., 3,440,091.
Devaney, Richard G., 3,469,012.
Dickey, Joseph B.; and Weaver, Max A., 3,442,886.
Dierks, James E.; and Palmer, Allan M., 3,454,323.
Ditzer, Joseph R., Jr.; and Spangler, Fred W., 3,457,072.
Ditzer, Joseph R., Jr.; and Spangler, Fred W., 3,458,317.
Dotson, Billy R.; Morrison, Edward D.; and Williams, Robert F., Jr., 3,483,023.
Drexler, Roger A., 3,457,900.
Duke, Roy B., Jr.; and Perry, Milton A., 3,442,931.
Duke, Roy B., Jr.; and Perry, Milton A., 3,455,988.
Duke, Roy B., Jr.; and Perry, Milton A., 3,468,927.
Dunham, Kenneth Royal, 3,460,964.
Dunn, Joseph S., 3,442,653.
Dyer, Richard F., 3,453,709.
Dyer, Richard F., 3,462,813.
Eagle, John H.; Harvey, Donald M.; and Seebech, Robert W., 3,455,218.
Eagle, John H., 3,460,449.
Easterly, Donald O., 3,475,090.
Eastman, Donald R., 3,432,406.
Edwards, Evan A.; Ulmschneider, Lawrence A.; and Roman, Robert J., 3,465,980.
Elam, Edward U., 3,466,322.
Ernisse, Paul Justen, 3,482,497.
Ettischer, Helmut, 3,427,945.
Ettischer, Helmut, 3,447,440.
Ettischer, Helmut; and Steisslinger, Kurt, 3,481,260.
Ettischer, Helmut, 3,486,431.
Ewald, William P., 3,485,561.
Feder, Donald P., 3,466,117.
Fessenden, John R.; and McDonald, William G., 3,438,485.
Finucane, Thomas W., 3,459,506.
Fisher, John G.; Wallace, David J.; and Straley, James M., 3,424,756.
Fisher, Joseph T., 3,485,670.
Foor, Sanford Wayne, 3,462,054.
Ford, John A., Jr.; and Wilson, Charles V., 3,468,912.
Fox, Charles J., 3,434,833.
Fox, Charles J., 3,485,625.
Frank, Lee F., 3,443,869.
Frank, Lee F., 3,451,752.
Fumia, Arthur, Jr.; Heseltine, Donald W.; and Brooker, Leslie G. S., 3,482,978.
Galbraith, Floyd M., Jr., 3,472,137.
Gibbons, Carl B., 3,470,417.
Gignilliat, William W.; and Wilder, John W., 3,432,462.
Gilman, Paul B.; Goffe, Charles A.; and Jones, Jean E., 3,446,619.
Goddard, William H.; and Hopf, Henry C., 3,484,893.
Goffe, Charles Allen, 3,433,639.
Goss, Harry F.; and De Jean, Ronald A., 3,484,235.
Graham, Talford W., 3,428,061.
Guillet, James E., 3,476,813.
Guillet, James Edwin, 3,472,918.
Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B., 3,433,855.
Hagemeyer, Hugh J., Jr.; Statman, Max; and Vinyard, Herschel T., 3,442,933.
Hagemeyer, Hugh J., Jr.; and Statman, Max, 3,459,678.
Hagemeyer, Hugh J., Jr.; Gleason, Willard P.; and Robinson, Alfred G., III, 3,466,264.
Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B., 3,478,128.
Hagemeyer, Hugh John, Jr.; and Park, Vernon K., 3,423,384.
Hagemeyer, Hugh John, Jr.; and Edwards, Marvin Becton, 3,453,346.
Haist, Grant M.; and King, James R., 3,480,433.
Hanna, Ernest R., 3,480,434.
Hargis, Charles W.; and Young, Howard S., 3,441,569.
Hargis, Charles W.; Young, Howard S.; and Reynolds, Jefferson Wayne, 3,453,331.
Hargis, Charles W., 3,466,320.
Hargis, Charles W.; and Young, Howard S., 3,476,747.
Hargis, Charles W.; and Young, Howard S., 3,479,374.
Hargis, Charles W.; and Young, Howard S., 3,485,877.
Harrington, Robert C., Jr.; and Ammons, Robert L., 3,428,723.
Harrington, Robert C., Jr.; and Bond, James H., 3,437,497.
Harrington, Robert C., Jr.; Smith, James L.; and Bond, James H., 3,463,688.
Harris, Raymond C.; and Newland, Gordon C., 3,440,209.
Harris, Raymond C., 3,446,809.
Harris, Raymond C.; and Straley, James M., 3,485,832.
Harvey, Donald M., 3,442,191.
Harvey, Donald M., 3,443,502.
Harvey, Donald M., 3,475,092.
Harvey, Donald M., 3,479,935.
Hawkins, Gary F., 3,465,027.
Heaney, Paul R., 3,436,712.
Hearst, Thomas McChesney; and Yantz, Robert Charles, 3,449,142.
Hediger, Edwin A., 3,433,350.
Heseltine, Donald W.; and Lincoln, Lewis L., 3,423,207.
Heseltine, Donald W.; and Brooks, Dugald A., 3,438,779.
Heseltine, Donald W., 3,440,052.
Heseltine, Donald W.; and Brooks, Dugald A., 3,455,693.
Heseltine, Donald W.; Jones, Jan E.; and Lincoln, Lewis L., 3,481,927.
Hiatt, Gordon D.; and Mench, John W., 3,480,615.
Holstead, Colin; Bailey, Joseph; and Jeffreys, Roy A., 3,455,687.

Holtzclaw, John V.; and Brooker, Leslie G. S., 3,440,053.
Hostettler, Hans U., 3,466,236.
Houle, James F.; and Van Norman, Gilden R., 3,486,450.
Hoyle, Vinton A., Jr.; and McConnell, Wayne V., 3,476,772.
Huffaker, James E., 3,462,226.
Huffaker, James Edward; and Beard, Bramlet L., 3,420,663.
Hunter, Walker F.; and Mizma, Edward J., 3,479,989.
Hutchison, Miller R., Jr., 3,471,225.
Irick, Gether, Jr.; and Hawkins, Gary F., 3,487,114.
Jackson, Frank H.; and Rumbutis, Bernard R., 3,448,528.
Jackson, Winston J., Jr.; and Caldwell, John R., 3,431,230.
Jackson, Winston J., Jr.; and Caldwell, John R., 3,442,896.
Jackson, Winston J., Jr.; and Caldwell, John R., 3,446,855.
Jackson, Winston J., Jr.; and Caldwell, John R., 3,470,235.
Jackson, Winston J., Jr.; and Caldwell, John R., 3,475,373.
Jackson, Winston Jerome, Jr.; and Caldwell, John R., 3,454,672.
Jeffreys, Roy A.; and Williams, Leslie A., 3,473,929.
Jeffreys, Roy A., 3,483,195.
Jenkins, Philip Winder; and Brooker, Leslie G. S., 3,483,196.
Johnson, Benjamin A.; and Forster, Donald M., 3,425,835.
Johnson, Dee Lynn, 3,447,939.
Johnson, Dee Lynn, 3,447,956.
Johnson, James R.; Harvey, James E.; and Kingslake, Rudolf, 3,441,338.
Johnson, Merriam E., 3,442,196.
Johnson, Robert B.; and Goddard, William H., 3,451,590.
Johnson, Robert B.; and Kirn, Thomas G., 3,463,373.
Jones, Jean E.; and Kalenda, Norman W., 3,432,302.
Jones, Jean E.; and Kalenda, Norman W., 3,432,303.
Jordan, William E.; and Kottler, Franklin D., 3,466,125.
Joyner, Frederick B.; and McConnell, Richard L., 3,480,580.
Kalenda, Norman W., 3,486,902.
Karlson, Richard Warren, 3,486,901.
Keith, Garland B., 3,485,120.
Kibler, Charles Jacob; and Larkins, Thomas Hassell, Jr., 3,483,166.
Kiefer, John E.; and Touey, George P., 3,420,245.
Kiefer, John E.; and Touey, George P., 3,476,120.
King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M., 3,437,486.
King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M., 3,475,175.
Kirn, Thomas G., 3,463,372.
Kitze, Theodore J., Jr., 3,428,455.
Klanderman, Bruce H.; and Faber, Jan W. H., 3,457,235.
Knott, Edward B; Mijovic, Miroslav V; and Saunders, David George, 3,434,837.
Knox, William J., Jr., 3,437,485.
Kretchman, Charles M.; and Spangler, Fred W., 3,449,122.
Larive, Henri; and Baralle, Roger, 3,437,659.
Larkins, Thomas H., Jr.; and Malcolm, Michael O., 3,450,729.
Lawrence, Raymond Edward; and Witherow, Lawrence R., 3,429,042.
Lee, William E., 3,453,109.
Leone, Joseph Thomas; and Mc Kague, James Francis, 3,464,821.
Lestina, Gregory J.; and Reckhow, Warren A., 3,432,300.
Lieser, Ernst; Simon, Horst; and Mueller, Edwin, 3,420,154.
Lieser, Ernst; Simon, Horst; Mueller, Edwin; and Steisslinger, Kurt, 3,433,143.
Lieser, Ernst; Steisslinger, Kurt; and Magnus, Oswin, 3,470,801.
Lindenmuth, Terry N.; and Pierson, Charles W., 3,443,093.
Loria, Anthony, 3,432,521.
Loria, Anthony, 3,447,928.
Loria, Anthony, 3,458,315.
Loria, Anthony, 3,476,563.
Lovick, Robert C.; and Scheg, Robert F., 3,485,961.
Lowe, Jack W., Jr.; and Teague, Gilliam S., Jr., 3,429,840.
Maggiulli, Cataldo A.; and Paine, Raymond E., 3,437,665.
Martin, Emmett Virgil, 3,464,197.
Martin, James C.; and Burpitt, Robert D., 3,424,763.
Martin, James C.; and Gott, Paul G., 3,442,906.
Marvin, Edgar S., 3,476,471.
Mc Connell, Wayne V.; and Moore, William H., 3,442,930.
McBride, Clarence E.; O'Brien, David F.; and Gates, John W., Jr., 3,459,549.
McClellan, Bion W.; and Thomson, Kenneth W., 3,471,227.
McConnell, Richard L.; and Coover, Harry W., Jr., 3,450,677.
McConnell, Wayne V., 3,478,109.
McConnell, Wayne Varon; and Moore, William Howard, 3,467,615.
McGuckin, Hugh G., 3,434,839.
McKee, Edward S., 3,429,518.
McKee, Edward S., 3,486,710.
Melech, Charles J., 3,438,697.
Melech, Charles J., 3,482,901.
Metzger, Lenard M., 3,427,941.
Meyer, August K.; and McFall, Robert B., 3,461,662.
Meyers, John J.; Martin, Lawrence R.; and Rubin, Jacob C., 3,464,562.
Miller, Edward G., Jr.; and Kennedy, William D., 3,474,792.
Milton, Kriby M., 3,420,670.
Minsk, Louis M., 3,449,126.
Moriarty, Jerome J., 3,429,741.
Moriarty, Jerome J., 3,473,955.
Morse, John E.; and Rosenburgh, Norman J., 3,474,696.
Nadeau, Gale F., 3,437,484.
Nail, Nelson R., 3,435,802.
Nail, Nelson R., 3,453,436.
Neal, Richard D., 3,458,890.
Nelan, Donald R., 3,444,213.
Nelson, Raymond L.; and Krochalis, Robert W., 3,482,496.
Nerwin, Hubert, 3,422,740.
Nerwin, Hubert, 3,444,795.
Nerwin, Hubert, 3,447,867.
Nerwin, Hubert, 3,476,474.
Nerwin, Hubert, 3,479,940.
Nerwin, Hubert; and Eagle, John H., 3,482,681.
Nerwin, Hubert, 3,485,157.
Newland, Gordon C.; Greear, George R.; and Tamblyn, John W., 3,454,510.
Newland, Gordon C.; and Tamblyn, John W., 3,464,943.
Newland, Gordon C., 3,464,953.
Newland, Gordon C., 3,485,765.
Newland, Gordon Clay, 3,454,550.
O'Gara, George W., 3,459,064.
Oliver, Gene Leech, 3,486,897.
Ort, Wolfgang, 3,447,441.
Owen, Jeffrey M.; and Wright, Margaret A., 3,485,634.
Owens, James M.; Graham, James L.; and Pilsworth, Edward A., 3,469,987.
Pagel, Armin B., 3,442,193.
Painton, Richard Clarence; and Burke, Clarence Albert, 3,441,761.
Pearman, James R. G., 3,426,764.
Perry, Edmond S., 3,425,993.
Perry, Ernest J.; and Reynolds, Delbert D., 3,425,836.
Peterson, Dean M.; Windle, William, Jr.; and Pickering, Charles E., 3,439,596.
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr., 3,440,939.
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr., 3,473,456.
Price, William H., 3,472,578.
Price, William H., 3,477,776.
Priestley, Philip Thorpe; Sebborn, Walter Sidney; and Selman, Raymond Frank William, 3,436,190.
Quarve, Vernon K., 3,441,013.
Rasch, Arthur A.; Jones, Jean E.; and Hodges, Wilbur C., 3,442,649.
Rauner, Frederick J., 3,475,176.
Rederer, Carl G.; and Jenkins, Gerald L., 3,441,339.
Reiss, Max, 3,466,116.
Robinson, Gene H.; and Jarvis, James G., 3,449,658.
Robinson, Herbert T., 3,427,739.
Roman, Robert J., 3,467,341.
Roman, Robert J., 3,470,339.
Roman, Robert J., 3,480,226.
Roman, Robert J.; O'Donnell, Miles C.; and Johnson, Robert B., 3,484,159.
Rosenburgh, Norman J., 3,467,340.
Rowley, Martin E., 3,478,016.
Roy, Donald W.; and Parson, William F., 3,454,685.
Roy, Donald W.; and Parsons, William F., 3,459,503.
Roy, Donald Walther, 3,454,358.
Ruben, Paul L., 3,438,696.
Ruben, Paul L., 3,443,863.
Ruben, Paul L., 3,466,114.
Ruben, Paul L., 3,466,115.
Ruben, Paul L., 3,466,118.
Russell, Edmund R., 3,463,741.
Russell, Theodore A., 3,474,758.
Salisbury, Frank R., 3,485,268.
Saxon, Daniel I., 3,481,012.
Schmitt, Eugen, 3,441,072.
Schneeberger, Donald R.; and Seaberg, Leonard J., 3,476,472.
Schwardt, David N., 3,421,817.
Seaberg, Leonard J., 3,473,506.
Seil, Kenneth F.; and Swift, Paul F., 3,437,806.
Shuffrey, Anthony L.; and Iles, Anthony J., 3,458,965.
Simon, Horst, 3,432,967.
Sloan, Cephas H.; and Sublett, Bobby J., 3,426,763.
Smith, Donald Arthur, 3,459,790.
Smith, James G.; Kibler, Charles J.; and Schulken, Roger M., Jr., 3,483,157.
Snavely, Benjamin B., 3,479,515.
Snow, Richard W.; and Wilt, Chester C., 3,477,926.
Spencer, Arthur William, 3,429,961.
Spoelhof, Charles P., 3,455,223.
Stanin, Theodore E.; Seaton, William H.; and Hale, Chapman M., Jr., 3,436,428.
Stark, Daniel J., 3,463,409.

Statman, Max; Blood, Alden E.; and Vinyard, Herschel Thomas, 3,425,798.
Steisslinger, Kurt; and Simon, Horst, 3,423,041.
Stewart, Paul H., 3,462,266.
Stewart, Paul H., 3,468,664.
Stimson, Allen G., 3,435,744.
Stimson, Allen G.; and Eagle, John H., 3,440,938.
Stimson, Allen G.; and Babcock, David L., 3,475,616.
Stimson, Allen Gwyn, 3,452,347.
Stoever, Hans O., 3,482,573.
Stoever, Hans O.; and Leinbach, Richard K., 3,482,574.
Straley, James M.; and Wallace, David J., 3,438,982.
Straley, James M., 3,445,485.
Straley, James M.; and Fisher, John G., 3,481,918.
Stryjewski, Walter Anthony, 3,452,181.
Stutz, Klaus H.; and Eyselee, Wolfgang M., 3,473,454.
Sublett, Bobby J.; and Sloan, Cephas H., 3,428,055.
Sublett, Bobby Jones; and Sloan, Cephas H., 3,428,056.
Sutherns, Edward Arthur; and Hirsch, Hans, 3,420,669.
Sutliff, Robert C.; Burgo, Paul A.; Butler, Ernest J.; and Pierson, Charles W., 3,431,380.
Taber, Robert C.; and Brooks, Dugald A., 3,425,833.
Thiebaut, Roger P. J. G.; Dubosc, Jean-Pierre C. G.; and Mercier, Claude A. L. L., 3,485,624.
Tholstrup, Clarence E., 3,440,212.
Tholstrup, Clarence E., 3,450,671.
Tholstrup, Clarence E., 3,454,521.
Tholstrup, Clarence E., 3,454,522.
Tholstrup, Clarence E., 3,454,523.
Tholstrup, Clarence E., 3,454,525.
Tholstrup, Clarence E.; and Rush, Sarah J., 3,461,153.
Tholstrup, Clarence E., 3,464,954.
Tholstrup, Clarence E.; Bell, Alan; and Kibler, Charles J., 3,466,323.
Tholstrup, Clarence E., 3,487,044.
Thompson, Benjamin; and Buckner, Thomas E., 3,431,305.
Thweatt, John G., 3,442,910.
Thweatt, John G., 3,480,678.
Thweatt, John G., 3,480,678.
Tone, Frederick F.; Deprez, Robert F.; and Edelman, Robert I., 3,466,440.
Touey, George P.; and Mumpower, Robert C., II, 3,424,173.
Touey, Gerge P.; and Mumpower, Robert C., II, 3,451,887.
Trevoy, Donald J., 3,428,451.
Tucker, Archie J., 3,451,732.
Tuite, Robert J.; and Miller, Donald N., 3,449,257.
Ulmschneider, Lawrence A., 3,439,881.
Urbach, Franz; and Higgins, George C., 3,469,925.
Van Ingen, Jack, 3,461,651.
Van Lare, Earl John, 3,482,981.
VanIngen, Jack A., 3,463,321.
Von Bramer, Paul T.; and Hequembourg, Charles W., 3,437,629.
Vuillemot, Ward T., 3,486,056.
Walker, Theodore R.; and Miller, Edward G., 3,429,318.
Wallace, David J.; Straley, James M.; and Weaver, Max A., 3,424,741.
Wallace, David J.; and Weaver, Max A., 3,428,621.
Wallace, David J.; Weaver, Max A.; and Straley, James M., 3,438,961.
Wallace, David J.; and Weaver, Max A., 3,445,452.
Watson, Frederick R., 3,451,652.
Waver, Max A.; Wallace, David J.; and Straley, James M., 3,453,270.
Waz, Edward, 3,464,773.
Weaver, Max A.; and Wallace, David J., 3,423,394.
Weaver, Max A.; and Wallace, David J., 3,424,740.
Weaver, Max A.; and Wallace, David J., 3,429,871.
Weaver, Max A.; and Wallace, David J., 3,438,965.
Weaver, Max A.; and Wallace, David J., 3,453,280.
Weaver, Max A.; and Wallace, David J., 3,464,971.
Weaver, Max A.; Straley, James M.; and Dale, John I., III, 3,472,833.
Weaver, Max A.; and Dale, John I., 3,485,813.
Wehr, Clyde W., 3,438,689.
Weidenbach, Willy, 3,456,894.
Weyerts, Walter J., 3,431,107.
Weyerts, Walter John, 3,435,761.
White, Charles Clayton; and Crowell, James Sheffield, 3,422,043.
Wiegert, Albert Carl; and Cook, Louis John, Jr., 3,420,520.
Williams, Jack L. R., 3,444,138.
Williams, Robert F., Jr.; Strebe, David E.; and Surridge, Kenneth G., deceased, 3,436,246.
Williams, Robert F., Jr.; and Calloway, George P., Jr., 3,463,773.
Williams, Robert F., Jr.; and Morrison, Edward D., 3,467,568.
Wilson, Burton D., 3,480,436.
Wilson, Ransford B.; Nicholas, Robert D.; and Williams, Carl J., 3,457,074.
Yackel, Edward C., 3,453,111.
Young, Howard S.; and McDaniel, Edgar L., 3,437,690.
Young, Howard S.; and Reynolds, Jefferson Wayne, 3,466,334.
Yudelson, Joseph S., 3,438,776.

Eastman, Lester F.; and Kennedy, Wilbert K., Jr., to Research Corporation. Microwave power generator using LSA mode oscillations. 3,487,334, 12-30-69, Cl. 331-107.
Easton, Arlyn T., to Cincinnati Milling Machine Co., The. Machine electrolytic grinding tool control apparatus. 3,442,785, 5-6-69, Cl. 204-224.
Easton, Bernard E.: *See*—
Oringer, Kenneth; Gallagher, Gerald T.; Bunin, Donald S.; and Easton, Bernard E.,3,432,546.
Easton Car & Construction Company: *See*—
Miller, Richard A., 3,446,378.
Easton, Fred H.; and Kratz, Randall H., Jr. Mathematics teaching device and method. 3,452,454, 7-1-69, Cl. 35-31.
Easton, Geoffrey John, to Hovercraft Development Limited. Electromagnetically-propelled vehicles. 3,460,485, 8-12-69, Cl. 104-148.
Easton, Harold, to Warner Electric Brake & Clutch Company. Servo system. 3,484,666, 12-16-69, Cl. 318-18.
Easton, Nelson R.: *See*—
Cassady, Donald R.; Dillard, Robert D.; and Easton, Nelson R.,3,436,402.
Dillard, Robert D.; and Easton, Nelson R.,3,452,015.
Easton, Rufus; and Haussner, Theodor H. W., to Koppers Company, Inc. Break-out control apparatus and method. 3,455,370, 7-15-69, Cl. 164-83.
Easton, Wayne B. Gear reduction drive mechanism for rotary fluid pressure devices or the like. 3,429,271, 2-25-69, Cl. 103-130.
Easton, Wayne B. Fluid pressure operated motor or pump. 3,446,153, 5-27-69, Cl. 103-130.
Eastview Corporation: *See*—
Jordan, Alfred H.; and Fiske, Ruth E., 3,423,849.
Eastwood, Fred, to Foseco Trading A.G., mesne. Apparatus for forming hot top liners. 3,439,734, 4-22-69, Cl. 164-213.
Eastwood, Fred; Brindle, John Harry; and Kolb, Frederick L., Jr., to Foseco International Limited. Hot top for big-end-up ingot molds and method of assembling same. 3,458,169, 7-29-69, Cl. 249-201.
Eastwood, Geoffrey Wallwork: *See*—
Crank, Geoffrey James; and Eastwood, Geoffrey Wallwork,3,452,343.
Eaton, Ben E. Means for assuring return movement of the keys of a piano action to their normal positions. 3,435,720, 4-1-69, Cl. 84-240.
Eaton, David Crawford; and Haggis, Geoffrey Arthur, to Imperial Chemical Industries Limited. Polymeric materials. 3,462,381, 8-19-69, Cl. 260-2.5
Eaton, Edgar P., Jr.: *See*—
Smith, William H.; Whitley, Daniel M.; and Eaton, Edgar P., Jr.,3,435,881.
Eaton, Francis M., to Schlumberger Technology Corporation. Methods and apparatus for investigating mudcake thickness. 3,462,678, 8-19-69, Cl. 324-10.
Eaton, James B., Jr., to Texas Gas Transmission Corporation. Magnetically biased compressor check valves. 3,485,441, 12-23-69, Cl. 230-228.
Eaton, James J.: *See*—
Dates, Harold F.; and Eaton, James J.,3,484,284.
Eaton, James L.: *See*—
Cousins, Richard C.; Cooley, Eugene A.; Worstell, Wayne C.; and Eaton, James L.,3,424,272.
Eaton, John L., Jr.: *See*—
Schwartz, Walter M., Jr.; Turner, Charles R.; and Eaton, John L., Jr.,3,483,814.
Eaton Manufacturing Company: *See*—
Pipes, George R.; and Hollinshead, Albert, 3,448,534.
Taylor, Albert E.; and Benjamin, Ivan E., 3,441,106.
Eaton, Maurice B., to Gainsborough Precision Engineering (Birmingham). Centrifugal pumps. 3,457,868, 7-29-69, Cl. 103-97.
Eaton Metal Products Company: *See*—
Garnett, Edward V., 3,482,660.
Eaton, Roy W.: *See*—
Rodrigues, Anthony F.; and Eaton, Roy W.,3,431,596.
Eaton Stamping Company: *See*—
Hamman, Lyle J., 3,437,083.
Eaton Yale & Towne G.m.b.H.: *See*—
Griesenbrock, Karl-Heinz, 3,481,621.
Eaton Yale & Towne, Inc.: *See*—
Abell, Roy F., Jr., 3,437,080.
Abell, Roy F., Jr., 3,448,730.
Albris, Frank R., 3,438,417.
Allen, John D., 3,455,210.
Bartlett, Churchill W., 3,438,229.
Berryman, Charles O., 3,425,712.
Berryman, Charles O.; Oldberg, Sidney; and Carey, William R., 3,441,290.
Bojas, Edward J., 3,448,578.
Boyer, Ralph K.; Eyedam, Homer F.; and Krohn, Henry W., 3,422,837.
Braun, Eugene R., 3,433,332.

Brooks Vern E., 3,456,442.
Buck, Ronald H., Jr., 3,446,265.
Carey, William R., 3,451,693.
Carey, William R.; and Hass, David P., 3,473,824.
Carliss, Oswald S., 3,471,989.
Check, Mathias M., 3,428,352.
Check, Mathias M., 3,449,934.
Check, Mathias M., 3,477,754.
Chute, Richard, 3,460,853.
Chute, Richard, 3,481,625.
Fergle, Donald J., 3,464,284.
Fergle, Donald J., 3,481,626.
Frailly, Nicholas D., 3,431,809.
Frailly, Nicholas D., 3,469,494.
Gee, Thomas A., 3,430,457.
Gleaton, Hamlin J., 3,440,097.
Golden, Abraham H., 3,479,848.
Graper, William, 3,456,874.
Griesenbrock, Karl-Heinz, 3,450,224.
Gruber, Thomas J., 3,438,463.
Gruber, Thomas J., 3,467,222.
Gruber, Thomas J.; and Lyth, William W., 3,477,546.
Gruber, Thomas J., 3,487,467.
Hass, David P.; and Stuemky, Robert E., 3,425,504.
Hass, David P., 3,451,694.
Hass, David P., 3,468,392.
Hass, David P.; and Horan, Ralph P., 3,476,225.
Hass, David P., 3,477,740.
Heyberger, Werner; and Braun, Eugene R., 3,433,331.
Houseman, Henry J.; and Esser, Ernst S., 3,484,851.
Jaeschke, Ralph L.; and Smith, Aubrey H., 3,450,910.
Jaeschke, Ralph L., 3,456,498.
Jaeschke, Ralph L., 3,478,239.
Jaeschke, Ralph L., 3,486,052.
Kaiser, Hermann, 3,485,973.
La Vallee, Theodore R., 3,450,912.
Lauer, Ernst H., 3,476,219.
LaVallee, Theodore R., 3,437,856.
Line, Gerald D., 3,476,093.
Line, Gerald D., 3,477,416.
Lyth, William W., 3,432,004.
Martin, Robert L.; and Chute, Richard, 3,429,583.
Martin, Robert L., 3,431,998.
McNamara, Thomas V., 3,441,117.
McPherson, John C., 3,420,146.
Meacham, George B. K., 3,430,614.
Messinger, Robert L., 3,420,565.
Molby, Lloyd A.; and White, James C., Jr., 3,422,919.
Molby, Lloyd A., 3,446,376.
Molby, Lloyd A., 3,451,498.
Moss, Charles R., 3,481,074.
Mueller, Robert S., 3,437,167.
Mueller, Robert S., 3,437,182.
Mueller, Robert S., 3,464,275.
Mueller, Robert S.; and Uitvlugt, Martin W., 3,481,422.
Munsey, Robert J., 3,469,491.
Nagel, William S., 3,472,346.
Nelson, Robert K., 3,448,635.
Ohntrup, Frederick F., 3,460,699.
Palmer, Norman Harold George, 3,432,791.
Palmer, Norman Harold George, 3,439,247.
Perkins, Charles M., 3,425,290.
Preston, David S.; and Stroh, Richard H., 3,455,209.
Previte, Dominick L., 3,434,621.
Richardson, Robert W., 3,476,403.
Roll, Louis C., 3,481,420.
Roper, Daniel W., 3,430,519.
Roper, Daniel W., 3,437,186.
Roper, Daniel W.; Wilkowski, Edward A.; and Hass, David Peter, 3,448,636.
Roper Daniel W., 3,452,619.
Santos, Gerard R., 3,451,507.
Santos, Gerard R., 3,487,280.
Schultz, Wilfred R., 3,476,142.
Smith, Aubrey H., 3,450,911.
Steinbacher, Jack Thomas, 3,456,639.
Sutaruk, Alex, 3,444,748.
Sutaruk, Alex, 3,445,057.
Tedd, David C., 3,447,053.
Tedd, David Clifford, 3,447,060.
Truemper, John P.; and Smith, Aubrey H., 3,469,164.
Uitvlugt, Martin W., 3,444,950.
Ulinski, Bronislaus I., 3,432,054.
Ulinski, Bronislaus I., 3,485,323.
Wilkowski, Edward A., 3,481,436.

Eau et Feu, Societe Anonyme: *See—*
Martin, Michel Leon Jean, 3,457,945.

Eaves, Dennis Robert; Bergemann, Horst; and Bishop, William Gordon Groves, to Eanes, Bishop & Sons Limited. Machine tools. 3,449,985, 6-17-69, Cl. 77-25.

Eaves, Maynard D.; and Gilbert, John M., to Hewlett-Packard Company. Method of making and cleaning printed circuit assemblies. 3,421,211, 1-14-69, Cl. 29-626.

Eaves, Raymond O., to Batley-Janss Enterprises. Conveyor system. 3,428,196, 2-18-69, Cl. 214-17.

Eaves, Russell P.; and Burke, Lucille E. Apparatus for teaching swimming. 3,445,941, 5-27-69, Cl. 35-29.

E&B Incorporated: *See—*
Duddy, Joseph C., 3,433,673.
Johnson, Martin H.; and Spellman, Patrick J., 3,433,679.
Ockermn, John B., 3,433,678.

Ebara Infilco Kabushiki Kaisha: *See—*
Kanamori, Koichi; and Seto, Iwao, 3,459,306.

Ebara-Infilco Kabushiki Kaisha: *See—*
Matsumoto, Nobuo; and Arimitsu, Hidenobu, 3,461,067.

Ebauches S. A.: *See—*
Besson, Rene, 3,427,799.

Ebauches S.A.: *See—*
Beyner, Andre; Besson, Rene; and Chopard, Remy, 3,447,311.
Jeanmonod, Roland, 3,465,510.
Scherrer, Igor, 3,483,485.

Ebbert Engineering Company: *See—*
Wright, Kenneth D., 3,428,863.

Ebbinghaus, Erich: *See—*
Hauschke, Manfred; and Ebbinghaus, Erich,3,449,812.

Ebel, Robert Henry; Adler, Stephen Fred; and Keggi, Janis J., to American Cyanamid Company. Solid oxidant and method for deodorizing air therewith. 3,421,837, 1-14-69, Cl. 21-53.

Ebelhardt, David P., to Mead Corporation, The. Article carrier for flanged containers. 3,432,202, 3-11-69, Cl. 294-87.2

Ebeling, Arthur W., to Amsted Industries, Incorporated. Apparatus for casting metal articles. 3,443,629, 5-13-69, Cl. 164-339.

Ebeling, Jack F., to Hanna, Daniel C. Reversible mount for a brush. 3,425,079, 2-4-69, Cl. 15-21.

Ebeling, William C., to Singer-General Precision, Inc. Simulator instrumentation. 3,456,362, 7-22-69, Cl. 35-12.

Ebeling, William C.; and Paufve, Eldred H., to Singer-General Precision, Inc. Visual display system. 3,439,105, 4-15-69, Cl. 35-10.2

Ebenbichler, Hubert; Pluhar, Franz; and Scharler, Johann. Process for cutting gear teeth on the surface of a cylindrical blank workpiece. 3,453,930, 7-8-69, Cl. 90-2.

Eber, Nikolaus: *See—*
Stierlin, Hans; and Eber, Nikolaus,3,464,221.

Eberbach, Reinhold: *See—*
Randak, Alfred; Eberbach, Reinhold; Rinker, Heinz; and Treppschuh, Helmut,3,426,833.

Eberhard, Gunther, to Siemens Aktiengesellschaft. Horizontal deflection circuit for television system. 3,487,260, 12-30-69, Cl. 315-27.

Eberhard, Haas, to Lapple, August, G.m.b.H. & Co. Gauging press. 3,429,048, 2-25-69, Cl. 33-174.

Eberhard, John F.: *See—*
McKissick, Robert W.; and Eberhard, John F.,3,441,645.

Eberhardt, Edward H.: *See—*
Clayton, Robert H.; and Eberhardt, Edward H.,3,454,809.

Eberhardt, Gert G., to Sun Oil Company. Dimerization of propylene to dimethylbutenes. 3,482,001, 12-2-69, Cl. 260-683.15

Eberhardt, Gert G.; and Griffin, William P., Jr., to Sun Oil Company. Catalyst and process for dimerization of olefins. 3,459,825, 8-5-69, Cl. 260-683.15

Eberhardt, Gert G.; and Griffin, William P., Jr., to Sun Oil Company. Catalyst and process for dimerization of olefins. 3,472,911, 10-14-69, Cl. 260-683.15

Eberhardt, Jack L.: *See—*
Schubach, Uluse E.; Woods, Otho C.; Grutsch, Patrick C.; and Eberhardt, Jack L.,3,426,559.

Eberhardt, Robert. Bundle tie. 3,484,905, 12-23-69, Cl. 24-16.

Eberhardt, Roland C.; and Douglas, George B. Aerosol coatings applicator. 3,428,224, 2-18-69, Cl. 222-402.13

Eberhardt, Wayne R.: *See—*
Cheape, Dudley W., Jr.; and Eberhardt, Wayne R.,3,454,542.

Eberhart, Arthur H., to Westinghouse Electric Corporation. Dual-passage line-breaking valve. 3,434,498, 3-25-69, Cl. 137-625.18

Eberhart, Arthur H., to Westinghouse Electric Corporation. Room air conditioner. 3,448,590, 6-10-69, Cl. 62-262.

Eberhart, Edwin J. Tree digger construction. 3,427,734, 2-18-69, Cl. 37-2.

Eberl, Erich, to Entwicklungsring Sud GmbH. Engine performance monitoring system. 3,456,497, 7-22-69, Cl. 73-116.

Eberline Instrument Corporation: *See—*
Beard, Rex E., 3,445,767.

Eberly, David H., Jr., to Lok-Box, Inc. Method and apparatus for assembling interlocking wooden panels. 3,454,444, 7-8-69, Cl. 156-304.

Eberly, Paul E., Jr.; and Webb, Dorothy, to Esso Research and Engineering Company. Process for the selective sorption of paraffins and olefins. 3,485,748, 12-23-69, Cl. 208-310.

Eberly, Paul G.: *See—*
Wiseman, William A.; and Eberly, Paul G.,3,447,393.

Eberman, Augustus H.: *See—*
Jensen, Hans A.; and Eberman, Augustus H.,3,424,042.

Jensen, Hans A.; and Eberman, Augustus H.,3,467,240.
Jensen, Hans A.; and Eberman, Augustus H.,3,479,792.
Ebershoff, Kenneth L.; and Miller, Kenneth H., to Davis Electronics Corporation. Radiation sensitive power control system. 3,443,106, 5-6-69, Cl. 250-214.
Eberspacher, J.: *See—*
Kofink, Siegfried, 3,468,257.
Reusch, Gotthilf, 3,470,049.
Ebert, Ekkehard; and Spielmann, Werner, to International Business Machines Corporation. Method of etching SiC. 3,421,956, 1-14-69, Cl. 156-17.
Ebert Electronics Corporation: *See—*
Pressman, Sidney, 3,486,036.
Ebert, Michael: *See—*
Koppius, Otto G., 3,459,986.
Koppius, Otto G., 3,484,925.
Ebert, Paul Richard. Precipitator. 3,443,362, 5-13-69, Cl. 55-117.
Ebertz, Helmut: *See—*
Ruhle, Hans; and Ebertz, Helmut,3,433,141.
Ebertz, Helmut, to Zeiss Ikon Aktiengesellschaft. Mirror reflex camera. 3,429,246, 2-25-69, Cl. 95-42.
Eberwein, Siegfried: *See—*
Walter, Conrad; and Eberwein, Siegfried,3,480,347.
Ebhardt, Carl A., to International Telephone and Telegraph Corporation. Centrally powered subscriber carrier systems. 3,459,895, 8-5-69, Cl. 179-2.5
Ebner, Heinrich, to Heinrich Frings. Process for acetic acid fermentation. 3,445,245, 5-20-69, Cl. 99-147.
Ebner, Ludwig: *See—*
Beriger, Ernst; and Ebner, Ludwig,3,456,039.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig,3,429,688.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig,3,467,757.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig,3,487,156.
Duerr, Dieter; Rohr, Otto; Aebi, Hans; and Ebner, Ludwig,3,429,689.
Martin, Henry; Aebi, Hans; and Ebner, Ludwig,3,420,892.
Ebneter, Markus, to Ferd. Ruesch, Maschinenfabrik. Automatic apparatus for continuously winding strip material. 3,430,881, 3-4-69, Cl. 242-56.
Ebneth, Harold; Baer, Heinrich; and Ott, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Butadiene-sytrene-acrylonitrile resins containing polypropylene glycol as antistaticizer. 3,450,794, 6-17-69, Cl. 260-876.
Ebnother, Anton: *See—*
Jucker, Ernst; and Ebnother, Anton,3,420,848.
Jucker, Ernst; and Ebnother, Anton,3,487,078.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael,3,466,290.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael,3,466,291.
Jucker, Ernst; Ebnother, Anton; and Rissi, Erwin,3,445,464.
Jucker, Ernst; Ebnother, Anton; and Stoll, Andre,3,474,105.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,464,983.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,465,003.
Ebregt, Johannes: *See—*
Maat, Hendrik J.; and Ebregt, Johannes,3,445,189.
Ebright, Robert L.; and Decker, Lawrence M., to United States of America, Army, mesne. Circuit card extractor. 3,457,621, 7-29-69, Cl. 29-203.
E. B. V. Systems, Inc.: *See—*
Kleeberg, Gunther K. E., 3,466,005.
Eby, Ralph H.: *See—*
Friedmann, Anton R. J.; and Eby, Ralph H.,3,434,664.
Eby, Richard R.: *See—*
Nolt, Edwin B.; and Eby, Richard R.,3,448,681.
Eby, Richard R., to Sperry Rand Corporation. Drive shaft for knotter mechanisms for baler. 3,443,511, 5-13-69, Cl. 100-22.
Eby, Richard R.; and Nolt, Edwin B., to Sperry Rand Corporation. Twine clamp means for baler knotter. 3,472,544, 10-14-69, Cl. 289-13.
Eby, Richard R.; and Nolt, Edwin B., to Sperry Rand Corporation. Needle actuated twine guide for baler knotter. 3,482,866, 12-9-69, Cl. 289-15.
Eby, Robert L., to Electronic Organ Arts, Inc. Electronic organ with lock-in circuit for tone- signal generators thereof. 3,459,869, 8-5-69, Cl. 84-1.01
Eccles, Fred J.; and Landow, Harold, to Breeze Corporations, Inc. Rotation input encoder assembly. 3,432,847, 3-11-69, Cl. 340-347.
Eccles, Raymond D.; Yates, James E.; and Matson, Ted P., to Continental Oil Company. Detergent compositions. 3,444,087, 5-13-69, Cl. 252-138.
Ecclesia, Edoardo, to Ing. C., Olivetti & C., S.p.A. Electrical connector for printed-circuit boards. 3,466,591, 9-9-69, Cl. 339-17.
Ecclesia, Edoardo: *See—*
Perotto, Pier Giorgio; and Ecclesia, Edoardo,3,478,251.
ECE Patent AB; *See—*
Eklund, Kurt Ingvar, 3,472,182.
Echeagaray, Ignacio P. Heat sensitive recording material. 3,425,858, 2-4-69, Cl. 117-36.8
Echo Development Co.: *See—*
Boggild, Robert, 3,480,731.
Echterhoff, Heinrich: *See—*
Peters, Werner; Echterhoff, Heinrich; and Bertling, Heribert,3,427,148.
Echterling, Eugene J.: *See—*
Ryan, John W.; Echterling, Eugene J.; Golden, Michael E.; Goetz, John H.; and Chang, Richard Shih-Teng,3,477,140.
Eck, Bruno; and Laing, Nikolaus, to Laing-Vortex, Inc. Cross-flow fluid machines. 3,437,262, 4-8-69, Cl. 230-114.
Eck, Fritz; and Emmerichs, Gerhard Theodor, to Chemengineering, Ltd., mesne. Method for the surface treatment of metal articles. 3,438,799, 4-15-69, Cl. 117-49.
Eck, Gerhard, to Bolkow Gesellschaft mit beschrankter Haftung. Axial thrust bearing having rotatable needle cage. 3,433,543, 3-18-69, Cl. 308-235.
Eck, Joel D. Wall furnace. 3,451,388, 6-24-69, Cl. 126-116.
Eck, John C.; and Zegel, Wiliam C., to Thiokol Chemical Corporation. Low fritction bearings with improved wear Method for the removal of soluble phosphates in waste water treatment. 3,453,207, 7-1-69, Cl. 210-49.
Eck, John C.; and Zegel, William C., to Allied Chemical Corporation. Reactivating molecular sieves. 3,420,772, 1-7-69, Cl. 208-310.
Eck, John C.; and Zegel, William C., to Allied Chemical Corporation. Method of reactivating molecular sieves. 3,470,677, 10-7-69, Cl. 55-73.
Eck, John C.; and Zegel, William C., to Allied Chemical Corporation. Method for the removal of suspended matter in waste water treatment. 3,485,752, 12-23-69, Cl. 210-54.
Eck, John Clifford; and Zegel, William C., to Allied Chemical Corporation. Method for the removal of soluble phosphates in waste water treatment. 3,456,796, 7-22-69, Cl. 210-49.
Eck, John E.: *See—*
Baker, Donald E.; and Eck, John E.,3,440,085.
Eck, Karl A., to Des-Eng-Con Corporation. Cooling bed. 3,420,357, 1-7-69, Cl. 198-219.
Eckardt, Carl R.: *See—*
Barton, Oliver A.; and Eckardt, Carl R.,3,458,350.
Eckardt, Fred H., to Daystar Corporation. Mist type coolant spray unit. 3,478,843, 11-18-69, Cl. 184-6.
Eckberg, Edwin E. Gas laser tube system. 3,447,098, 5-27-69, Cl. 331-94.5
Eckdahl, Harold L. Capping separator. 3,448,860, 6-10-69, Cl. 210-182.
Ecke, George G.: *See—*
Buzbee, Lloyd R.; and Ecke, George G.,3,433,812.
Ecke, George G.; and Kolka, Alfred J., to Ethyl Corporation. Stabilization with phenolic type antioxidant. 3,463,731, 8-26-69, Cl. 252-52.
Ecke, George G.; and Kolka, Alfred J., to Ethyl Corporation. Di(2,6-diisopropylphenyl) mono halo phosphite or (thio) phosphate. 3,476,838, 11-4-69, Cl. 260-960.
Eckel, John E.; and Lock, Everett H., to Esso Production Research Company. Obtaining unaltered core samples of subsurface earth formations. 3,454,117, 7-8-69, Cl. 175-226.
Eckel, John R.; and Hildebrandt, Alexander B., to Esso Production Research Company. Fluid actuated control valve. 3,445,085, 5-20-69, Cl. 251-5.
Eckel, Oliver C. Acoustical members. 3,421,273, 1-14-69, Cl. 52-145.
Eckelkamp, Bernard J.; and Spence, David W., to Infotronics Corporation, Inc. Automatic digital data processing system for continuous flow analysis. 3,449,725, 6-10-69, Cl. 340-172.5
Eckelmann, Herman J., Jr. Push-pull amplfiers. 3,434,067, 3-18-69, Cl. 330-15.
Eckenbrecht, Robert Roy; and Rhee, Dong W., to Sylvania Electric Products, Inc. Brightness signal limiting and faulty component indicating circuitry for cathode ray tube system. 3,445,717, 5-20-69, Cl. 315-22.
Eckenbrecht, Robert R., to Sylvania Electric Products, Inc. Frequency doubler, stereo indicator circuitry for FM radio receivers. 3,436,485, 4-1-69, Cl. 179-15.
Eckenbrecht, Robert R.; and Hickok, William K., to Sylvania Electric Products, Inc. Color demodulator circuit. 3,456,070, 7-15-69, Cl. 178-5.4
Eckenrod, Carl J.: *See—*
Furgason, Carl M.; and Eckenrod, Carl J.,3,464,709.
Eckenrod, John J., to Crucible Steel Company of America. Method of chromizing metal. 3,451,843, 6-24-69, Cl. 117-113.
Eckenroth, Charles J. Decorative covering for dashboard panels and method of applying same. 3,423,276, 1-21-69, Cl. 161-39.
Ecker, Theodore J.: *See—*
Herb, Philip J.; and Ecker, Theodore J.,3,430,186.
Eckered, Thomas Harald; Sviden, Ove; and Ljungstrom, Olle, to Saab Aktiebolag. Cushion vehicle having inflatable skirt. 3,478,836, 11-18-69, Cl. 180-128.

Eckerle, Nickolas C.; and Thompson, William H., to Nalco Chemical Company. Glass fiber lubricant in sizing process. 3,475,149, 10-28-69, Cl. 65-3.
Eckerle, Otto. High pressure gear pump or motor with compensation for play and wear. 3,472,170, 10-14-69, Cl. 103-126.
Eckerle, William A., to General Electric Company. Hose storage system for washing appliance. 3,461,906, 8-19-69, Cl. 137-355.17
Eckermann, Alfred E., to Bendix Corporation, The. Earth albedo sensor and sun sensor. 3,486,030, 12-23-69, Cl. 250-209.
Eckersley, Dennis: *See—*
Barben, Ian Knowles; and Eckersley, Dennis,3,427,308.
Barben, Ian Kowles; and Eckersley, Dennis,3,484,432.
Eckersley, Dennis; and Stephen, William Elliot, to Imperial Chemical Industries Limited. Water-soluble reactive anthraquinone, dyestuffs their preparation and use. 3,426,018, 2-4-69, Cl. 260-239.7
Eckert, Frank B. Ignition system. 3,452,733, 7-1-69, Cl. 123-148.
Eckert, Georg: *See—*
Ciriack, Gunter; Eckert, Georg; and Hofmann, Horst,3,453,479.
Eckert, George E. Copyholder for electric typewriter. 3,449,850, 6-17-69, Cl. 40-356.
Heisler, Robert Y.; Dille, Kenneth L.; Fontaine, Marc F.; and Eckert, George W.,3,421,867.
Eckert, George W., to Texaco Inc. Motor fuel composition. 3,454,381, 7-8-69, Cl. 44-66.
Eckert, George W., to Texaco Inc. Fuel composition. 3,473,902, 10-21-69, Cl. 44-66.
Eckert, George W., to Texaco Inc. Jet fuel composition. 3,476,533, 11-4-69, Cl. 44-58.
Eckert, John S., to U. S. Stoneware, Inc., mesne. Method and apparatus for comminution. 3,423,032, 1-21-69, Cl. 241-15.
Eckert, John S., to U.S. Stoneware, Inc., mesne. Chemical treating tower. 3,440,018, 4-22-69, Cl. 23-283.
Eckert, John S., to Norton Company, mesne. Vibratory mill. 3,465,974, 9-9-69, Cl. 241-153.
Eckert, John S., to Norton Company, mesne. Gas-liquid contactor. 3,474,597, 10-28-69, Cl. 55-231.
Eckert, John S.; and Moore, Frank D., to U.S. Stoneware, Inc., mesne. Ball mill drum. 3,454,233, 7-8-69, Cl. 241-180.
Eckert, Konrad, to Bosch, Robert, G.m.b.H. Electromagnetically actuated fuel injection valve for internal combustion engines. 3,450,353, 6-17-69, Cl. 239-585.
Eckert, Lawrence A.: *See—*
Putch, Samuel W.; and Eckert, Lawrence A.,3,424,477.
Eckert, Lewis W., to Armstrong Cork Company. Method and apparatus for spraying insulation. 3,476,318, 11-4-69, Cl. 239-10.
Eckert und Ziegler G.m.b.H.: *See—*
Bielfeldt, Friedrich Bernd, 3,464,091.
Eckfield, Eugene L., to Chris-Craft Industries, Inc. Trim and planing control means for water craft. 3,435,795, 4-1-69, Cl. 114-66.5
Eckhardt, Daniel J.: *See—*
Dundel, Morris; and Eckhardt, Daniel J.,3,474,136.
Eckhardt, Hans A. Screw conveyor. 3,429,435, 2-25-69, Cl. 209-39.
Eckhardt, Hans A. Screw conveyor. 3,452,863, 7-1-69, Cl. 209-39.
Eckhardt, Hans A. Apparatus for conveying particulate materials. 3,452,864, 7-1-69, Cl. 209-39.
Eckhardt, Hans A. Apparatus for discharging particulate materials. 3,452,865, 7-1-69, Cl. 209-39.
Eckhardt, Vilem, to Driam AG. Method and apparatus for reinforcing the walls of welded pipes or other tubular elements. 3,481,025, 12-2-69, Cl. 29-477.3
Eckhardt, Wilfried O., to Hughes Aircraft Company. Liquid-metal arc cathode with maximized electron/atom emission ratio. 3,475,636, 10-28-69, Cl. 313-29.
Eckl, James J., to Square D Company. Transistor switching circuit. 3,450,903, 6-17-69, Cl. 307-261.
Eckles, Paul N.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,427,435.
Ecklund, Oscar Frederick: *See—*
Chittenden, Richard Marion; and Ecklund, Oscar Frederick,3,428,722.
Eckrich, Peter, & Sons, Inc.: *See—*
Whitney, John A.; and Woods, Richards E., 3,475,742.
Eckrich, Peter, and Sons, Inc.: *See—*
Cass, Herbert A., 3,442,396.
Eckstein, Philipp, to Gokel, Gustav, Maschinenfabrik GmbH. Cooling water purification apparatus. 3,459,309, 8-5-69, Cl. 210-320.
Eckstein, Philipp, to Gockel, Gustav, Maschinenfabrik G.m.b.H. Stropping device. 3,479,774, 11-25-69, Cl. 51-173.
Eckstein, Wolfgang: *See—*
Wachter, Karl-August; and Eckstein, Wolfgang,3,446,600.
Eclair International, Societe Anonyme: *See—*
Coutant, Andre; and Mathot, Jacques, 3,434,640.
Eclipse Fuel Engineering Co.: *See—*
Hirschberg, Erwin E.; and Moore, Edward E., 3,424,542.
Eco Pump Corporation: *See—*
Gordinier, Ralph E., 3,463,090.
Economics Laboratory, Inc.: *See—*
Rue, Larry M.; Brunelle, Thomas E.; and Mizuno, William G., 3,444,242.
Economy, James; and Anderson, Raymond V., to Carborundum Company, The. Boron nitride fiber manufacture. 3,429,722, 2-25-69, Cl. 106-55.
Economy Linen & Towel Service, Inc.: *See—*
Feldman, De Neal J.; Feldman, Jack J.; and Moscowitz, Milton J., 3,475,828.
Ecsery, Zoltan; Knoll, Jozsef; Kosa, Ildiko; Sandor, Ildiko; Somfai, Eva; and Torok, Sandor, to Chinoin Gyogyszer es Vegyeszeti Termekek Byara RT. Ortho and para-bromophenyl isopropyl methylamines. 3,485,874, 12-23-69, Cl. 260-570.8
Eddinger, Ralph Tracy: *See—*
Friedman, Louis D.; and Eddinger, Ralph Tracy,3,453,202.
Eddins, Ezra C.: *See—*
Knight, Alton D.; and Eddins, Ezra C.,3,450,116.
Eddleston, Ian, to Turner Brothers Asbestos Company Limited. Production of yarn and apparatus for use therein. 3,443,372, 5-13-69, Cl. 57-58.89
Eddy, Gaines W.; Davis, Harry G.; Beroza, Morton; and McGovern, Terrence P., to United States of America, Agriculture. Attractants for yellow jackets (Vespula spp.: Vespidae). 3,485,868, 12-23-69, Cl. 260-488.
Eddy, Robert T., to Reliance Electric and Engineering Company, The. Hydraulic motor or pump device. 3,453,966, 7-8-69, Cl. 103-130.
Eddy, Robert T., to Reliance Electric and Engineering Company, The. Rotary device. 3,456,559, 7-22-69, Cl. 91-56.
Eddy, Robert T., to Reliance Electric and Engineering Company, The. Hydraulic transmission. 3,473,326, 10-21-69, Cl. 60-53.
Eddy, Theodore B. Rotatable fixture and expanding mandrel. 3,468,074, 9-23-69, Cl. 51-216.
Eddy, Thomas W.; and Harrington, George E., to Bell Telephone Laboratories, Incorporated. Attenuator apparatus employing variable duty cycle modulation. 3,421,114, 1-7-69, Cl. 332-9.
Eddy, William R.; Phillips, Lawrence D.; and Beason, Elmer C., to Phillips Petroleum Company. Bag notching apparatus. 3,430,528, 3-4-69, Cl. 83-169.
Edebo, Lars Bennet, to Aktiebolaget Biox. Method and arrangement for disintegrating biological material under high pressure. 3,458,139, 7-29-69, Cl. 241-1.
Edeleanu Gesellschaft m.b.H.: *See—*
Hoppe, Alfred, 3,421,567.
Hoppe, Alfred, 3,448,016.
Edelkind, Dorothy. Umbrella covers. 3,429,320, 2-25-69, Cl. 135-34.
Edelman, Alfred E. Method and device for attaching dental appliances to the jaw. 3,436,826, 4-8-69, Cl. 32-10.
Edelman, Robert I.: *See—*
Tone, Frederick F.; Deprez, Robert F.; and Edelman, Robert I.,3,466,440.
Edelmann, Eugene F.; and Hawes, Richard S., III, to K-S-H, Inc. Plastic light-transmitting panel. 3,451,876, 6-24-69, Cl. 161-2.
Edelson, Kenneth J., to General Sportcraft Company Limited. Protective pad. 3,465,364, 9-9-69, Cl. 2-22.
Edelson, Martin R.; and Angstadt, Richard L., to Grace, W. R., & Co. Cement set retarder. 3,425,892, 2-4-69, Cl. 106-89.
Edelson, Nathan A., to Monsanto Research Corporation. Novel 1,4,7-tris(halohydrocarbylcarbamoyl) dodecahydro-1,4,7,9b-tetraazaphenalenes and 1,4,7- tris(nitrohydrocarbyl-carbamoyl)dodecahydro- 1,4,7,9b-tetraazaphenalenes. 3,444,166, 5-13-69, Cl. 260-256.4
Edelson, Stanley; and O'Brien, George R., to Amsterdam Brush Corp. Paint brush and hanger therefor. 3,432,875, 3-18-69, Cl. 15-246.
Edelstahlwerk Witten Aktiengesellschaft: *See—*
Penik, Franc, 3,431,100.
Edelstahlwerke Aktiengesellschaft: *See—*
Bungardt, Karl; and Spyra, Wolfgang, 3,441,406.
Eden, Dayton D.: *See—*
Clendinning, William R.; and Eden, Dayton D.,3,435,445.
Eden, Dayton D., to Texas Instruments, Incorporated. Solid-state crystal optical modulator. 3,437,399, 4-8-69, Cl. 350-149.
Eden, Dayton D., to Texas Instruments, Incorporated. Photoconductive electro-optic image intensifier utilizing polarized light. 3,449,583, 6-10-69, Cl. 250-213.
Eden, Jamal S., to Goodrich, B. F., Company, The. Catalyst for the preparation of unsaturated aldehydes. 3,423,331, 1-21-69, Cl. 252-437.
Eden, Jamal S., to Goodrich, B. F., Company, The. Process of preparing acrylonitrile and methacrylonitrile by catalytic ammoxidation of propylene and isobutylene. 3,426,059, 2-4-69, Cl. 260-465.3
Eden, Jamal S., to Goodrich, B. F., Company, The. Process of preparing acrylonitrile and methacyrlonitrile by catalytic ammoxidation of propylene and isobutylene. 3,426,060, 2-4-69, Cl. 260-465.3
Eden, Jamal S., to Goodrich, B. F., Company, The. Process of preparing unsaturated nitriles. 3,445,500, 5-20-69, Cl. 260-465.3

Eden, Jamal S., to Goodrich, B. F., Company, The. Catalyst for vapor phase oxidation of hydrocarbons. 3,451,945, 6-24-69, Cl. 252-437.
Eden, Jamal S., to Goodrich, B. F., Company, The. Method of preparing unsaturated acids and aldehydes. 3,456,003, 7-15-69, Cl. 260-533.
Eden, Jamal S., to Goodrich, B. F., Company, The. Process of preparing unsaturated aldehydes and acids. 3,456,004, 7-15-69, Cl. 260-533.
Eden, Jamal S., to Goodrich, B. F., Company, The. Method of preparing unsaturated aldehydes and acids. 3,457,303, 7-22-69, Cl. 260-533.
Eden, Jamal S., to Goodrich, B. F., Company, The. Method of preparing unsaturated aldehydes and acids. 3,467,700, 9-16-69, Cl. 260-533.
Eden, Jamal S.: *See—*
Ziegler, Charles E.; and Eden, Jamal S.,3,451,946.
Ziegler, Charles E.; and Eden, Jamal S.,3,475,348.
Edenbaum, Martin I., to Johnson & Johnson. Thermoplastic cast forming material including an inversely water soluble resin. 3,420,231, 1-7-69, Cl. 128-90.
Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc.2,3;3a,12β-Tetrahydro-8H-dibenzo[3,4;6,7] cyclohept[1,2-d]oxazoles and derivatives. 3,478,048, 11-11-69, Cl. 260-307.
Edens, Carrol D.; Norungolo, Patrick C.; and Barrowclough, Howard J., to Plyle-National Company, The. Loom beam storage and dispensing device. 3,460,660, 8-12-69, Cl. 193-27.
Edens, Hendrik Johan. Vehicle and switch therefor. 3,430,580, 3-4-69, Cl. 104-28.
Eder, Franz X., to Bendix Corporation, The. High vacuum pump. 3,428,241, 2-18-69, Cl. 230-69.
Eder, Franz X.; and Voigt, Hans, to Siemens Aktiengesellschaft. Superconductive generators. 3,478,232, 11-11-69, Cl. 310-10.
Eder, Theodor. Process and apparatus for separating a mixture of particles into two end fractions. 3,452,866, 7-1-69, Cl. 209-156.
Edeus, James A., to National Manufacturing Co. Pocket door assembly. 3,480,989, 12-2-69, Cl. 16-94.
Edgar, Manuel. Combined wind and hand guard for bicycles. 3,462,188, 8-19-69, Cl. 296-78.1
Edgar, Owen Burchell, to Imperial Chemical Industries Limited. Polyamides containing manganese for light stabilization and stabilized against bleach discoloration with tungsten or molybdenum. 3,458,470, 7-29-69, Cl. 260-37.
Edge, Gordon Malcolm; Eiloart, Timothy March Beaupre; Horabin, Ivan S.; and Rayner, Peter John Wynn, to Kee, Incorporated, mesne. Typewriter trainer. 3,423,845, 1-28-69, Cl. 35-6.
Edgecombe, David A., to Babcock & Wilcox Company, The. Tube extrusion apparatus and method. 3,455,137, 7-15-69, Cl. 72-264.
Edgell, James E.: *See—*
Ballard, Robert L.; and Edgell, James E.,3,426,435.
Ballard, Robert L.; Edgell, James E.; Handke, Patrick M.; and Loechner, John T.,3,438,130.
Edgell, James E., to Porter, H. K., Company, Inc. Tape rule lock. 3,443,316, 5-13-69, Cl. 33-138.
Edgell, James E., to Porter, H. K., Company, Inc. Tape rule pushbutton lock. 3,450,367, 6-17-69, Cl. 242-107.2
Edgemond, John W., Jr.; and Boyen, John L., to Vapor Corporation. Hot air transfer valve with constant flow area for all valve positions. 3,448,770, 6-10-69, Cl. 137-610.
Edgerton, Charles Willis, Jr., to Brunswick Corporation, mesne. Folding partitions. 3,448,786, 6-10-69, Cl. 160-199.
Edgerton, Henry E. Garden hose nozzle holder. 3,473,770, 10-21-69, Cl. 248-87.
Edgington, Howard C.: *See—*
Liebel, Bruce W.; Edgington, Howard C.; and Meredith, Philip J.,3,479,585.
Edgworth, Raymond John, to Armour Pharmaceutical Company. Sterilizable container. 3,481,690, 12-2-69, Cl. 21-83.
Edie, John: *See—*
Burmann, Fred; and Edie, John,3,429,558.
Edie, John; and Burmann, Fred. Post and rail fitting. 3,429,600, 2-25-69, Cl. 287-119.
Edington, John E., to Bell Telephone Laboratories, Incorporated. Coin telephone antifraud circuit. 3,428,751, 2-18-69, Cl. 179-6.3
Edington, Robert Alexander: *See—*
Aldred, Derek Harry; and Edington, Robert Alexander,3,476,701.
Edison Instruments, Inc.: *See—*
Scarpa, Thomas J., 3,433,461.
Scarpa, Thomas J., 3,470,388.
Edison, Robert R.: *See—*
Ohlswager, Sanley; and Edison, Robert R.,3,462,510.
Edison, Robert R., to Sinclair Research, Inc.Separation of p-xylene from A C_8 aromatic hydrocarbon mixture by crystallization. 3,462,511, 8-19-69, Cl. 260-674.
Dresser, Thorpe; Ohlswager, Stanley; and Edison, Robert,3,462,509.
Ohlswager, Stanley; and Edison, Robert,3,462,506.
Edison, Samuel. Restraining apparatus for the slaughtering or treating of animals. 3,457,585, 7-29-69, Cl. 17-1.
Edlein, Saul; Kasanof, David R.; and Kimmel, Elias, to Tempil Corporation. Time-temperature responsive color changing typographic printing ink composition. 3,471,422, 10-7-69, Cl. 260-22.
Edler, Karl Heinz, to Ipsen Industries International Gesellschaft mit beschrankter Haftung. Method of and arrangement for controlling a gas- air mixture. 3,479,164, 11-18-69, Cl. 48-190.
Edlin, Ray L.; and Rocks, James K., to Kelco Company. Canned creamed meat-containing food products by incorporation therein of a water soluble alginate and a soluble magnesium salt. 3,480,450, 11-25-69, Cl. 99-187.
Edling, Gustaf Emanuel, to Allmanna Svenska Elektriska Aktiebolaget. Means for condensing steam liberated within a closed space. 3,453,176, 7-1-69, Cl. 176-37.
Edlund, Oscar T.: *See—*
Langley, Roger D.; and Edlund, Oscar T.,3,439,790.
Edlund, Oscar T.; and Wagner, Robert G., to Jet Avion Corporation. Fastening means. 3,420,136, 1-7-69, Cl. 85-1.
Edman, Bjorn Rudolf; and Oman, Olof, to Aktiebolaget Bofors. Encased propellant for a rocket motor. 3,486,330, 12-30-69, Cl. 60-39.47
Edman, Charles W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,342.
Edman, John Harold: *See—*
Miller, Robert Deryl; Edman, John Harold; and Bucher, David Hoffer,3,443,833.
Tweedy, Robert Hugh; and Edman, John Harold,3,455,598.
Edman, Walter W., to Esso Research and Engineering Company. Cosmetic composition containing lanolin and hexadecyl alcohol. 3,422,204, 1-14-69, Cl. 424-361.
Edman, Walter W., to Esso Research and Engineering Company. Cosmetic preparations - wax rouge and foundation make - up. 3,439,088, 4-15-69, Cl. 424-63.
Edming, John Walter. Silage distributor. 3,430,788, 3-4-69, Cl. 214-17.
Edmisson, Russell C.: *See—*
Gaines, Jack H.; and Edmisson, Russell C.,3,432,611.
Edmonds, Byron Priestly: *See—*
Dahms, James Bowen; and Edmonds, Byron Priestly,3,433,530.
Edmonds, George D.: *See—*
Murray, John G.; Simon, Ellis D.; Bronner, George; and Edmonds, George D.,3,475,620.
Edmonds, James T., Jr.: *See—*
Oates, Alex N.; and Edmonds, James T., Jr.,3,487,454.
Edmonds, Thomas Rhys, to Conductron Corporation. Solid state optical pickoff employing planar cruciform detector. 3,432,671, 3-11-69, Cl. 250-217.
Edmonds, Thomas Rhys; Turnblade, Richard C.; and Speen, Gerald B., to International Telephone and Telegraph Corporation. Pneumatic gyroscope. 3,451,289, 6-24-69, Cl. 74-5.12
Edmonsond, Frank D.: *See—*
Alcorn, George B.; and Edmonsond, Frank D.,3,438,895.
Edmundson, John D. Collapsible container. 3,451,578, 6-24-69, Cl. 217-48.
Ednalite Corporation, The: *See—*
Bechtold, Edwin W., 3,436,145.
Bechtold, Edwin W., 3,458,250.
Edoco Technical Products, Inc.: *See—*
Rasmussen, Donald W., 3,478,655.
Worson, Lee, 3,469,510.
Edouard Dubied & Cie, Societe Anonyme: *See—*
Joseph, Pierre, 3,465,547.
Edouard Dubied et Cie (Societe Anonyme): *See—*
Joseph Pierre, 3,452,560.
Edqvist, Olle; Svedberg, Per; and Vedin, Bengt-Arne, to Allmanna Svenska Elektriska Aktiebolaget. Thyristor with positively bevelled junctions. 3,437,886, 4-8-69, Cl. 317-234.
Edridge, Richard Sydney. Portable construction transporters. 3,462,022, 8-19-69, Cl. 212-15.
Edris, Floyd L., to Firestone Tire & Rubber Company, The. Electrostatic duplication paper. 3,440,089, 4-22-69, Cl. 117-155.
Edson, Gwynne I., to Western Electric Company, Incorporated. Gold electroplating process and solution. 3,445,352, 5-20-69, Cl. 204-46.
Edstrom, Lloyd V. Spacing and holding device for siding. 3,463,480, 8-26-69, Cl. 269-309.
Edstrom, Nils Herbert: *See—*
Dahlblom, Rolf August; Edstrom, Nils Herbert; and Silwer, Jan,3,469,021.
Edstrom, Nils Herbert, to Telefonaktiebolaget L M Ericsson. Intermediate exchange for pulse code modulated time division multiplex signals. 3,482,047, 12-2-69, Cl. 179-15.
Educational Research Council of Great Cleveland: *See—*
Merkel, Stephen L., 3,432,943.
Educational Testing Service: *See—*
Serrell, Robert; and Kling, Frederick R., 3,484,950.
Edward Lead Company: *See—*
Lusk, Elmer C., 3,466,444.
Edwards, Alan H., to Esso Research and Engineering Company. Acylated polyester, polyester-amides, or polyamides. 3,447,916, 6-3-69, Cl. 44-62.

Edwards, Albert B. Automatic fuel vaporizer. 3,463,133, 8-26-69, Cl. 123-124.
Edwards, Alyce C.: *See—*
Macondray, Stewart A.; and Edwards, Alyce C.,3,429,431.
Edwards, Andrew S., to General Motors Corporation. Washer nozzle assembly. 3,432,876, 3-18-69, Cl. 15-250.04
Edwards, Arnold G.: *See—*
Barrington, Burchus Q.; and Edwards, Arnold G.,3,456,726.
Edwards, Arthur. Golf practice device. 3,425,700, 2-4-69, Cl. 273-185.
Edwards, Arvel Hollis, to Texas Instruments, Incorporated. High speed multivibrator. 3,424,926, 1-28-69, Cl. 307-273.
Edwards, Aubrey T.; and Mussen, Guy A., to Aluminium Laboratories Limited. Loose-core conductor having improved self-damping combined with improved internal wear resistance. 3,445,586, 5-20-69, Cl. 174-130.
Edwards, Bobbie L., to Cincinnati Milling Machine Co., The. Mounting construction for diaphragm in forming press. 3,430,473, 3-4-69, Cl. 72-63.
Edwards, Boggs & Boggs Co., Inc.: *See—*
Edwards, William H., 3,475,855.
Edwards, Bryant, to Illinois Tool Works, Inc. Stackable container. 3,441,173, 4-29-69, Cl. 220-97.
Edwards, Bryant, to Illinois Tool Works, Inc. Nestable container with bottom stacking. 3,442,420, 5-6-69, Cl. 220-97.
Edwards, Bryant, to Illinois Tool Works, Inc. Double wall container. 3,443,714, 5-13-69, Cl. 220-9.
Edwards, Bryant, to Illinois Tool Works, Inc. Double wall container. 3,443,715, 5-13-69, Cl. 220-9.
Edwards, Bryant, to Illinois Tool Works, Inc. Apparatus for separating rim nested containers. 3,454,987, 7-15-69, Cl. 18-19.
Edwards, Bryant, to Illinois Tool Works Inc. Container dispensing apparatus. 3,455,484, 7-15-69, Cl. 221-222.
Edwards, Bryant, to Illinois Tool Works Inc. Stackable container. 3,464,587, 9-2-69, Cl. 220-97.
Edwards, Bryant, to Illinois Tool Works Inc. Reduced neck article forming method and apparatus. 3,465,071, 9-2-69, Cl. 264-93.
Edwards, Bryant, to Illinois Tool Works, Inc. Nestable container with bottom stacking. 3,471,055, 10-7-69, Cl. 220-97.
Edwards, C. John: *See—*
Baudat, Andre A.; and Edwards, C. John,3,457,648.
Edwards, Charles E., to Dayco Corporation. Power transmitting means. 3,465,508, 9-9-69, Cl. 56-295.
Edwards, Clarence K.; and Edwards, Lawrence D. Model railroad coupler and related mechanism. 3,469,713, 9-30-69, Cl. 213-75.
Edwards Company, Inc.: *See—*
Duris, Rudolph M., 3,448,307.
Rowley, Walter E., Jr., 3,423,636.
Rowley, Walter E., Jr.; and Rissolo, Basil D., 3,448,448.
Edwards, David A.; Evans, Eric B.; and Fowler, Benjamin T., to Esso Research and Engineering Company. Production of carboxylic acids and nitriles. 3,468,945, 9-23-69, Cl. 260-531.
Edwards, David H., to Kaiser Jeep Corporation. Brake effectiveness warning device. 3,462,571, 8-19-69, Cl. 200-61.89
Edwards, David V. Inflatable boats. 3,451,078, 6-24-69, Cl. 9-2.
Edwards, Derrik Robert, to United Kingdom Atomic Energy Authority. Pickling apparatus. 3,441,035, 4-29-69, Cl. 134-103.
Edwards, Donald W.; and Thomas, Morton I. Foldable swingable walker. 3,442,276, 5-6-69, Cl. 135-45.
Edwards, Earl E., to Dorr-Oliver Incorporated. Filter with media supporting grid structure. 3,482,702, 12-9-69, Cl. 210-406.
Edwards, Evan A.; Ulmschneider, Lawrence A.; and Roman, Robert J., to Eastman Kodak Company. Reel and film retaining means. 3,465,980, 9-9-69, Cl. 242-74.1
Edwards, Francis P. Clutch and brake. 3,468,402, 9-23-69, Cl. 192-18.
Edwards, George Byron: *See—*
Darr, Donald E.; Edwards, George Byron; and Loehr, Clifford E.,3,475,124.
Edwards, Guy G. Oil processing system. 3,420,302, 1-7-69, Cl. 166-61.
Edwards, Harry; and Kenyon, Charles Frederick, to Imperial Chemical Industries Limited. Apparatus for metering and mixing polyurethane components. 3,431,081, 3-4-69, Cl. 23-285.
Edwards, Harry; and Wooler, Alan Metcalf, to Imperial Chemical Industries Limited. Apparatus for the manufacture of polyurethane foam core sandwich. 3,453,168, 7-1-69, Cl. 156-499.
Edwards, Helen M.: *See—*
Edwards, Theodoric B.,3,487,285.
Edwards, Herbert C.; Lytle, Ronald Lee; and Haburn, Joseph, to Timken Roller Bearing Company, The. Tapered roller bearing cone making apparatus. 3,483,604, 12-16-69, Cl. 29-27.
Edwards High Vacuum International Limited: *See—*
Bath, Hugh Henry Anthony, 3,427,568.
English, James; Putner, Tony Ian; Watts, John Francis; and Hill, Jeremy Allan, 3,445,673.
Spooner, Eric, 3,421,688.
Edwards, Jacque R., to Bucks County Enterprises, Inc. Stacking arrangement for pie trays. 3,476,262, 11-4-69, Cl. 211-126.
Edwards, James W.: *See—*
Pittenger, Evan W.; and Edwards, James W.,3,448,687.
Edwards, James W., to Monsanto Company. Apparatus and method of producing curved electrostatic printing screens. 3,454,399, 7-8-69, Cl. 96-36.4
Edwards, James W.; and Coffey, Ronald B., to Monsanto Company. Coated optical devices. 3,421,810, 1-14-69, Cl. 350-166.
Edwards, James W.; and Coffey, Ronald B., to Monsanto Company. Coated optical devices. 3,421,811, 1-14-69, Cl. 350-166.
Edwards, John A., to Syntex Corporation. Process for the preparation of steroids. 3,423,438, 1-21-69, Cl. 260-397.45
Edwards, John A., to Syntex Corporation. Process for the preparation of steroids. 3,423,439, 1-21-69, Cl. 260-397.45
Edwards, John A., to Syntex Corporation. 15a,16a-Methylene pregnanes and 19-nor-pregnanes. 3,438,975, 4-15-69, Cl. 260-239.55
Edwards, John A., to Syntex Corporation. 3β-Tetrahydrofuranyloxy- and 3β-tetrahydro pyranyloxyestra-4,9(10)-dienes and-4,9(10), 11- trienes, their preparation and intermediates. 3,461,118, 8-12-69, Cl. 260-239.55
Edwards, John A., to Syntex Corporation. Tetrahydropyranyl and tetrahydrofuranyl ethers of griseofulvin and derivatives thereof. 3,467,678, 9-16-69, Cl. 260-345.9
Edwards, John A., to Syntex Corporation. 3-Tetrahydropyranyl ethers of steroidal aldosterone antagonists. 3,470,162, 9-30-69, Cl. 260-239.57
Edwards, John A., to Syntex Corporation. Halogenated cyclopropyl, cyclopropenyl and oxo- cyclopropenyl-1-hydroxy estratrienes and derivatives thereof. 3,478,019, 11-11-69, Cl. 260-239.55
Edwards, John A.; and Fried, John H., to Syntex Corporation. Novel 6-spiro-(6',6'-dihalocyclopropyl) steroids. 3,455,972, 7-15-69, Cl. 260-397.4
Edwards, John A.; Fried, John H.; and Siddall, John B., to Zoecon Corporation, mesne. Polyhydroxy steroids and processes for their preparation. 3,455,905, 7-15-69, Cl. 260-239.55
Edwards, John A.; and Knox, Lawrence H., to Syntex Corporation. Halogenated cyclopropyl and cyclopropenyl steroids and process for their preparation. 3,435,056, 3-25-69, Cl. 260-397.4
Edwards, John A.: *See—*
Cross, Alexander D.; Edwards, John A.; and Berkoz, Belig,3,429,899.
Edwards, John C., Sr. Gizzard skinner. 3,480,991, 12-2-69, Cl. 17-11.
Edwards, John Duncan: *See—*
Pianka, Max; and Edwards, John Duncan,3,450,818.
Edwards, John E.: *See—*
Rhodes, Alex; and Edwards, John E.,3,465,559.
Bowers, Albert; Edwards, John; and Orr, James C.,3,427,386.
Edwards, John. Sofa bed combination. 3,458,877, 8-5-69, Cl. 5-43.
Edwards, Joseph R., to Diamond Shamrock Corporation. Process of preparing chemically acidified milk products. 3,432,306, 3-11-69, Cl. 99-54.
Edwards, Junious J.; and Levine, Richard G., to Emile Mills, Inc. Method and means for processing tubular articles. 3,420,196, 1-7-69, Cl. 112-2.
Edwards Laboratories, Inc.: *See—*
Dennis, Daniel L.; and Swendson, David L., 3,448,741.
Fogarty, Thomas J., 3,435,826.
Fogarty, Thomas J.; and Stark, William A., 3,467,102.
Siposs, George Geza, 3,466,671.
Stark, William A.; and Raible, Donald A., 3,448,739.
Edwards, Lawrence D.: *See—*
Edwards, Clarence K.; and Edwards, Lawrence D.,3,469,713.
Edwards, Lawrence H. Rotary rod weeder drive. 3,443,645, 5-13-69, Cl. 172-44.
Edwards, Lawrence J., to Mine Safety Appliances Company. Hydrogen generating composition. 3,450,638, 6-17-69, Cl. 252-188.
Edwards, Lawrence J.; and Hough, William V., to Mine Safety Appliances Company. Preparation of pentaborane(9). 3,460,905, 8-12-69, Cl. 23-204.
Edwards, Lawrence K. High-speed ground transportation system. 3,438,337, 4-15-69, Cl. 104-156.
Edwards, Le Roy B., to Roystoys Inc. Amusement device. 3,441,278, 4-29-69, Cl. 273-101.
Edwards, Lindell N., to Commander Board International, Inc. Display sign. 3,458,945, 8-5-69, Cl. 40-140.
Edwards, Margaret M.; and Cockroft, James B., to Oster, John, Manufacturing Co. Multiple push button switch. 3,420,969, 1-7-69, Cl. 200-5.
Edwards, Marvin Becton: *See—*
Hagemeyer, Hugh John, Jr.; and Edwards, Marvin Becton,3,453,346.
Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B.,3,433,855.
Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B.,3,478,128.
Edwards, Miles Lowell. Anastomotoc coupling with anti-pulse ring means. 3,435,823, 4-1-69, Cl. 128-334.
Edwards, Miles Lowell. Membrane fluid diffusion exchange device. 3,459,310, 8-5-69, Cl. 210-321.
Edwards, O. M., Company, Inc., The: *See—*
Axe, Daniel E., 3,461,611.
Edwards, Ralph S. Temperature responsive ventilator with coiled leaf spring. 3,436,016, 4-1-69, Cl. 236-49.

Edwards, Richard A., to Wilkerson Corporation. Drain valve. 3,450,146, 6-17-69, Cl. 137-203.
Edwards, Robert Harry, to Electric Reduction Company of Canada, Ltd. Manufacture of alkali metal phosphates. 3,423,170, 1-21-69, Cl. 23-107.
Edwards, Robert Harry; and Biggar, Gordon McLaren, to Electric Reduction Company of Canada Ltd. Manufacture of sodium metaphosphate. 3,432,259, 3-11-69, Cl. 23-106.
Edwards, Robert L.: *See—*
Gielow, George F.; and Edwards, Robert L.,3,462,194.
Gielow, George F.; and Edwards, Robert L.,3,472,239.
Gielow, George F.; and Edwards, Robert L.,3,472,241.
Edwards, Robert L.; and Gielow, George F., to Artnell Company. Head rest and waste container assembly. 3,449,011, 6-10-69, Cl. 297-391.
Edwards, Rodney, Jr.: *See—*
Fertig, Kenneth; and Edwards, Rodney, Jr.,3,483,457.
Edwards, Roger; and Perron, Paul P., Jr., to Bell Telephone Laboratories, Incorporated. Method of enhancing transistor switching characteristics. 3,464,868, 9-2-69, Cl. 148-186.
Edwards, Russell N., to General Electric Company. Plasma separator ion engine. 3,436,582, 4-1-69, Cl. 313-63.
Edwards, Terence: *See—*
Bulcock, Clifford James; and Edwards, Terence,3,484,543.
Edwards, Theodoric B., deceased0 (by Edwards, Helen M.; executrix). Constant current generator for charging batteries. 3,487,285, 12-30-69, Cl. 320-61.
Edwards, Warren R., to Johnson & Johnson. Device for determining sodium or chloride concentration in body fluids. 3,449,080, 6-10-69, Cl. 23-230.
Edwards, William A. Animal commode. 3,455,277, 7-15-69, Cl. 119-1.
Edwards, William C., to Smith Kline & French Laboratories. Apparatus for measuring blood pressure with an in-cuff microphone and preamplifier. 3,480,004, 11-25-69, Cl. 128-2.05
Edwards, William C., to Smith Kline & French Laboratories. Apparatus for measuring blood pressure with plural brake controlled indicators. 3,480,005, 11-25-69, Cl. 128-2.05
Edwards, William H., to Edwards, Boggs & Boggs Co., Inc. Toy trundle device. 3,475,855, 11-4-69, Cl. 46-220.
Edwards, William J., to General Electric Company. Card-stacking mechanism. 3,420,519, 1-7-69, Cl. 271-68.
Edwards, William R., to United States of America, Navy. Corner reflector. 3,451,060, 6-17-69, Cl. 343-18.
Eells, Rex: *See—*
Chandler, Charles G.; and Eells, Rex,3,450,256.
Eerdekens, Pieter Hendrik; and Pollet, Robert Joseph, to Gevaert-Agfa N.V. Process for the preparation of 3-arylamino- 2-pyrazolin-5-one. 3,470,191, 9-30-69, Cl. 260-294.8
Eerkens, Jozef W., to Terra Nova , Incorporated. Coherent gamma ray emitter. 3,430,046, 2-25-69, Cl. 250-84.
Efdyn Corporation: *See—*
Gryglas, Bogdan, 3,425,522.
Gryglas, Bogdan, 3,446,317.
Effbe-Werke Fritz Brumme KG.: *See—*
Brumme, Fritz; and Boehme, Horst, 3,434,660.
Effron, Edward: *See—*
Forster, Eric O.; and Effron, Edward,3,478,261.
Efimenko, Viktor Ivanovich. Moving iron ratiometer. 3,477,025, 11-4-69, Cl. 324-140.
Efinger, Gerald H.: *See—*
Tyndale, Clyde L.; Efinger, Gerald H.; and Raymond, Samuel O.,3,444,510.
E.F.L.,Inc.: *See—*
Peters, William J., 3,444,363.
Efodiev, Evgeny Petrovich: *See—*
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; Efodiev, Evgeny Petrovich; and Zafransky, Vladimir Mikhailovich,3,460,200.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; Efodiev, Evgeny Petrovich; and Zafransky, Vladimir Mikhailovich,3,460,200.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; and Zafransky, Vladimir Mikhailovich,3,460,201.
Eftefield, Larry G.: *See—*
Campbell, Trevor G.; Eftefield, Larry G.; and Moser, Raymond L.,3,474,547.
De Boeuf, James L.; Eftefield, Larry G.; Moser, Raymond L; and Wagner, Ernest W.,3,471,951.
Eftefield, Larry G.; Liess, Richard K.; Miller, Lawrence J.; and Wagner, Ernest W., to Caterpillar Tractor Company. Single pivot elevator mounting for self-loading scrapers. 3,423,853, 1-28-69, Cl. 37-8.
Eftefield, Larry G.; and Miller, Lawrence J., to Caterpillar Tractor Company. Drive group for the elevator of an elevator scraper. 3,483,639, 12-16-69, Cl. 37-8.
EG & G, Inc.: *See—*
Gates, Percival T., Jr., 3,463,575.
Goldberg, Seymour, 3,444,431.
Rasiel, Amram; and Henebry, William M., 3,421,113.
Rasiel, Amram; and Henebry, William M., 3,441,749.
Rasiel, Amram; and Henebry, William M., 3,484,624.
Rotch, Abbott L., 3,432,725.
Wyckoff, Charles W., 3,450,536.
EG & G International, Inc.: *See—*
Daniels, Charles K.; and McCarthy, John P., 3,458,853.
Feyling, Anders F., 3,463,113.
Feyling, Anders Fred, 3,423,777.
Perry, Kenneth E., 3,439,338.
Egan, Bruce C., Jr., to Broward Hurricane Panel Co., Inc. Storm shutters. 3,421,259, 1-14-69, Cl. 49-62.
Egan, Clark J.; and White, Robert J., to Chevron Research Company. Catalytic production of low pour point lubricating oils. 3,486,993, 12-30-69, Cl. 208-89.
Egan, Clark J.; and White, Robert J., to Chevron Research Company. Production of low pour point lubricating oils by catalytic dewaxing. 3,487,005, 12-30-69, Cl. 208-59.
Egan, Edward F., to Egan, Frank W., & Company. Slitter rewinder. 3,429,520, 2-25-69, Cl. 242-68.4
Egan, Frank W., & Co.: *See—*
Charneski, Charles S.; and Elliott, Ronald E., 3,430,883.
Street, Louis F., 3,447,582.
Egan, Frank W., & Company: *See—*
Egan, Edward F., 3,429,520.
Egan, Raymond D.; and Ames, John W., to Granger Associates. Automatic transmission frequency prediction and control system. 3,487,312, 12-30-69, Cl. 325-56.
Egan, Richard Raymond; and Lampson, Sidney Bruce, to Ashland Oil & Refining Company. Ethoxylated monoglycerides in baked goods. 3,433,645, 3-18-69, Cl. 99-90.
Egan, Richard R.; and Smiens, Leon D., to Ashland Oil & Refining Company. Polyoxyalkylene-containing ammonium compounds. 3,428,682, 2-18-69, Cl. 260-567.6
Egan, Richard R.; and Smiens, Leon D., to Ashland Oil & Refining Company. Polyoxyalkylene-containing tertiary amines. 3,456,013, 7-15-69, Cl. 260-584.
Egan, Thomas F. Bowsight. 3,477,130, 11-11-69, Cl. 33-46.4
Egan, Walter: *See—*
Lahm, William J.; Wilton, Peter; and Egan, Walter,3,423,274.
Egan, William E., to United States of America, Navy, mesne. Sea water battery voltage control circuit. 3,470,032, 9-30-69, Cl. 136-160.
Egart, George M.; and Freese, Walter, deceased0 (by Freese, Evelyn; administratrix). Electronic time delay relay. 3,458,772, 7-29-69, Cl. 317-142.
Egashira, Shohachi: *See—*
Watanabe, Isaburo; Yoshioka, Haruo; Sanga, Seiji; Egashira, Shohachi; and Ohki, Taketo,3,429,680.
Egawa, Susumu, to Matsushita Electric Industrial Co., Ltd. Static convergence device for a triple-gun color television receiver. 3,454,807, 7-8-69, Cl. 313-77.
Egawa, Susumu, to Matsushita Electric Industrial Co., Ltd. Dynamic convergence device for three electron gun color television receiver. 3,461,341, 8-12-69, Cl. 315-13.
Egbert, Earl L.; Goodale, Paul H.; and Stevenson, Paul D., to General Motors Corporation. Hydrodynamic torque transmitting unit with variable pitch rotor blades. 3,425,220, 2-4-69, Cl. 60-54.
Egbert, Robert B., to Chemical Process Corporation. Method for the removal and recovery of promoter from crude phthalic anhydride made by the vapor phase oxidation of orthoxylene in the presence of promoter. 3,428,423, 2-18-69, Cl. 23-154.
Egbert, Robert B.; and Gluodenis, Thomas J., to Chemical Process Corporation. Catalytic fluid bed oxidation of o-xylene to phthalic anhydride. 3,455,962, 7-15-69, Cl. 260-346.4
Egbert, William D.; and Nixon, Bryan E., to United States of America, Air Force, mesne. Exothermic steam generator. 3,425,316, 2-4-69, Cl. 89-1.818
Ege, William W., Jr., to Essex Wire Corporation. Encapsulated reed switch relay construction. 3,434,079, 3-18-69, Cl. 335-151.
Egeland, Haakon G.; and Dioguardi, John, to Cragomatic, Inc. Cargo load carrier enabling universal movement of cargo load thereon and thereover. 3,447,665, 6-3-69, Cl. 198-127.
Egema S.A.: *See—*
Vendel, Roger J., 3,484,442.
Egenvall, Gustaf C., to Johnson Construction Company AB. Heat exchange element with condensate collector. 3,430,693, 3-4-69, Cl. 165-166.
Eger, Leroy O. Sanitation system. 3,423,766, 1-28-69, Cl. 4-115.
Egerer, Herbert: *See—*
Carlson, Donald W.; and Egerer, Herbert,3,437,109.
Egert, Francis A.: *See—*
Mitchell, Robert G.; and Egert, Francis A.,3,421,406.
Egerton, John R.: *See—*
Cuckler, Ashton C.; Egerton, John R.; and Zeissig, Alexander,3,484,519.
DiNetta, Joseph; and Egerton, John R.,3,484,520.

Egerton, McKenny W., Jr., to Towson Laboratories, Inc. Reversible analog-digital converter utilizing incremental discharge of series connected charge sharing capacitors. 3,449,741, 6-10-69, Cl. 340-347.
Egerton, McKenny W., Jr.: *See—*
Hoffman, Philip A.; Barbour, Charles W.; and Egerton, McKenny W., Jr.,3,469,255.
Egerton Smith Engineers Limited: *See—*
Egerton-Smith, George, 3,458,163.
Egerton-Smith, George, to Egerton Smith Engineers Limited. Cleats. 3,458,163, 7-29-69, Cl. 248-67.5
Eggemann, Wilhelm; Weghaupt, Erich; and Lambrecht, Dietrich, to Licentia Patent-Verwaltungs-G.m.b.H. Rotor cooling arrangement. 3,469,127, 9-23-69, Cl. 310-54.
Eggen, Alfred C. W.: *See—*
Setzer, Herbert J.; and Eggen, Alfred C. W.,3,450,500.
Eggen, Ingmar B.; and Singleton, Andrew D., to National Dairy Products Corporation. Whey composition for making yeast-raised dough products. 3,445,238, 5-20-69, Cl. 99-91.
Eggenberger, Ulrich; and Neuenschwander, Karl A., to Gebruder Buhler AG. Pressure-type diecasting machine with screw threaded adjustment of mold halves. 3,433,290, 3-18-69, Cl. 164-303.
Egger, Josef: *See—*
Meitinger, Heinz; and Egger, Josef,3,462,942.
Egger, Linus, to Heberlein & Co. AG. Electromagnetic control device. 3,435,394, 3-25-69, Cl. 335-272.
Egger, William; and Naylor, Edward Shaw, to Union Camp Corporation. Bag-in-a-box. 3,459,357, 8-5-69, Cl. 229-37.
Eggeringhaus, Heinz, to Maschinenbau WAM M. Osterhof. Numbering machine adjuster for printing presses. 3,427,961, 2-18-69, Cl. 101-76.
Eggermont, Mildred H. Game apparatus. 3,441,280, 4-29-69, Cl. 273-135.
Eggers, Gerhard; and Seibold, Wilhelm, to Vereinigte Flugtechnische Werke G.m.b.H. Jet power plant. 3,430,858, 3-4-69, Cl. 239-127.3
Eggers, Larry A.: *See—*
Eggers, Walter A., 3,464,139.
Eggers, Robert G.; and Grant, Arthur, to Towmotor Corporation. Vehicle control foot pedal. 3,448,634, 6-10-69, Cl. 74-560.
Eggers, Robert G.; and Grant, Arthur R., to Towmotor Corporation. Detent lockout for hydraulic control valves. 3,465,649, 9-9-69, Cl. 91-426.
Eggers, Robert G.: *See—*
Grant, Arthur F.; and Eggers, Robert G.,3,430,585.
Eggers, Walter A., 1/2 to Eggers, Larry A. Illuminable fish attracting float. 3,464,139, 9-2-69, Cl. 43-17.5
Eggerstedt, Karl Heinz: *See—*
Maytum, Derek Laurie; and Eggerstedt, Karl Heinz,3,481,540.
Eggert, Carl A., to Bunker-Ramo Corporation, The. Display system sector selection and amplification means. 3,437,873, 4-8-69, Cl. 315-22.
Eggert, Carl A., to Bunker-Ramo Corporation, The. Display apparatus deflection signal correction system with signal multiplication. 3,487,164, 12-30-69, Cl. 178-7.5
Eggert, Jacob H.: *See—*
Alster, David I.; and Eggert, Jacob H.,3,459,900.
Eggert, Joachim; Tronnier, Ernst; and Schuhmann, Paul, to Voigtlander, A.G. Triplet with one cemented component. 3,420,602, 1-7-69, Cl. 350-227.
Eggert, Thomas F.; and Robinson, James M., to Whirlpool Corporation. Floor scrubber shaft seal. 3,477,088, 11-11-69, Cl. 15-353.
Eggert, Walter S., Jr., to Budd Company, The. Doorway construction. 3,434,256, 3-25-69, Cl. 52-208.
Eggert, Walter S., Jr., to Budd Company, The. Window construction. 3,443,346, 5-13-69, Cl. 52-214.
Eggert, Walter S., Jr., to Budd Company, The. Vehicle body construction and method of making it. 3,461,819, 8-19-69, Cl. 105-401.
Eggert, Walter S., Jr.: *See—*
Wessells, Henry W., III; and Eggert, Walter S., Jr.,3,455,595.
Eggert, William C.: *See—*
Kratochvil, Russell F.; and Eggert, William C.,3,446,358.
Eggleston, David O.; and Woyton, Joseph, to Reliance Electric and Engineering Company, The. Solid state trigger for SCR. 3,460,017, 8-5-69, Cl. 318-345.
Eggstein, Giorgio: *See—*
Arentoft, Holger; and Eggstein, Giorgio,3,422,622.
Eggstein, Giorgio, to Heinkel, Ernst, Aktiengesellschaft. Arrangement for evacuating gases from hydraulic systems. 3,434,573, 3-25-69, Cl. 188-152.
Eggstein, Giorgio, to Heinkel, Ernst, Aktiengesellschaft. Piston arrangement for fluid-operated brake system. 3,473,329, 10-21-69, Cl. 60-54.6
Eggstein, Giorgio, to Ernst Heinkel Aktiengesellschaft. Multiple power booster arrangement. 3,478,519, 11-18-69, Cl. 60-54.6
Egid, Eugene I. Three dimensional motion-producing mechanism. 3,444,746, 5-20-69, Cl. 74-42.
Egid, Eugene I. Machine for automatically manufacturing bows from ribbons. 3,485,422, 12-23-69, Cl. 223-46.
Egle, Gert, to Henkel & Cie., G.m.b.H. Poly-functional isocyanates prepared from polymerized fatty acids. 3,481,959, 12-2-69, Cl. 260-404.5
Egler, Vernon C., to Kendall Company, The. Method of making absorbent dressings. 3,459,618, 8-5-69, Cl. 156-219.
Egleston, Harry B., to Ex-Cell-O Corporation. Continuous motion machine for heating, forming, and sealing container closures. 3,464,326, 9-2-69, Cl. 93-44.1
Egleston, Harry B.; and Feliks, James J., to Ex-Cell-O Corporation. Container closure. 3,474,951, 10-28-69, Cl. 229-37.
Egli, Ernst M., to Patinvest Paten-und Investment A.G. Electric pressure-control snap switch. 3,436,502, 4-1-69, Cl. 200-83.
Egli, Walter, to General Dynamics Corporation. Heat exchanger. 3,421,575, 1-14-69, Cl. 165-7.
Egli, Werner H., to Honeywell Inc. Control apparatus. 3,454,025, 7-8-69, Cl. 137-81.5
Egner, Otto, to Nostorag AG. Electromagnetic valve. 3,420,494, 1-7-69, Cl. 251—130
Egorov, Vasily Pavlovich: *See—*
Vyaznikov, Alexandr Konstantinovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; and Khokhlov, Evgeny Ilich,3,446,258.
Vyaznikov, Alexandr Konstantinovich; Davydov, Alexei Ivanovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; Kohkhlov, Evgeny Ilich; and Charykov, Nikolai Frolovich,3,472,299.
Eguchi, Jutaro: *See—*
Shimamoto, Takatsugu; Hiyamuda, Shota; Fujita, Shigeru; Nozoe, Akihiko; Yamaguchi, Hiromi; and Eguchi, Jutaro,3,423,910.
Eguchi, Takashi; Iwabuchi, Shinichi; and Akiyama, Takao, to Japan Pure Hydrogen Company Ltd. Method for removal of impurities in rare gases. 3,467,493, 9-16-69, Cl. 23-2.
Eguchi, Tamotsu: *See—*
Yamauchi, Junnosuke; Eguchi, Tamotsu; and Matsubayashi, Kanji,3,425,992.
Eguchi, Yasukata, to Janome Sewing Machine Co., Ltd. Loop stitch shuttle for sewing machines. 3,447,498, 6-3-69, Cl. 112-197.
Eguchi, Yasukata, to Janome Sewing Machine Co., Ltd. Threading device for sewing machine. 3,485,194, 12-23-69, Cl. 112-225.
Eguchi, Yasukata; and Uchida, Kazuo, to Janome Sewing Machine Co., Ltd. Needle-bar-moving speed changing mechanism for a sewing machine. 3,460,498, 8-12-69, Cl. 112-221.
Egyedi, Andras: *See—*
Zathureczky, Arpad; and Egyedi, Andras,3,467,364.
Egyesult Gyogyszer- es Tapszergyar: *See—*
Kasztreiner, Endre; Borsi, Jozsef; Vargha, Laszlo; Boris, Meszaros, Erika; and Szilagyi, Geza, 3,432,549.
Egyesult Izzolampa es Villamossagi Reszvenytarsasag: *See—*
Patzauer, Gyozo, 3,464,783.
Ehat, Raphael F.: *See—*
Taylor, Raymond A.; and Ehat, Raphael F.,3,458,827.
Ehinger, Herbert; and Pikorz, Wolfgang, to Licentia Patent-Verwaltungs-G.m.b.H. Method for coating semiconductors and apparatus. 3,473,959, 10-21-69, Cl. 117-201.
Ehlbeck, Heinz-Wilhelm: *See—*
Gerstner, Dieter; Ehlbeck, Heinz-Wilhelm; and Epple, Richard,3,462,656.
Ehlen, Jack W., to McCulloch Corporation. Method of removing pin means from link chain devices. 3,464,201, 9-2-69, Cl. 59-7.
Ehlen, Jack W., to McCulloch Corporation. Power driven continuous cutting strip. 3,468,351, 9-23-69, Cl. 143-44.
Ehlenberger, Gary G., to Motorola, Inc. Controlled diffusions in semiconductive materials. 3,477,886, 11-11-69, Cl. 148-187.
Ehlenberger, Gary G., to Motorola, Inc. Gaseous diffusion method. 3,477,887, 11-11-69, Cl. 148-189.
Ehlenberger, Gary G.: *See—*
Huffman, Tommie R.; Ehlenberger, Gary G.; and Mc Donald, Robert A.,3,442,725.
Ehlers, Hans Reinhard, to Jurid Werke G.m.b.H. Spot type disc brakes having a floating saddle. 3,451,508, 6-24-69, Cl. 188-73.
Ehlert, Harry C.: *See—*
Current, James H.; and Ehlert, Harry C.,3,456,723.
Ehlinger, Peter J., to Miller, Eugene. Self-unloading bag. 3,443,832, 5-13-69, Cl. 294-71.
Ehlke, Charles C.: *See—*
Borer, Herbert W.; Ehlke, Charles C.; and Svoboda, James,3,432,051.
Ehman, George L. Container opening means. 3,433,386, 3-18-69, Cl. 220-48.
Ehmann, Ludwig: *See—*
Wettstein, Albert; Anner, Georg; Ehmann, Ludwig; and Wieland, Peter,3,453,296.
Ehmann, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of an aqueous dispersion of a polymer of a vinyl ester. 3,446,768, 5-27-69, Cl. 260-29.6
Ehmke, Conrad W.: *See—*
Paasch, Julius H.; and Ehmke, Conrad W.,3,467,559.

Ehms, Hermann: *See—*
Progler, Hans; Samaga, Wilhelm; Ehms, Hermann; and Eickemeyer, Rudolf,3,459,148.
Ehner, William J., to General Electric Company. Timing device with optional signal. 3,484,769, 12-16-69, Cl. 340-309.1
Ehner, William J.; and Losert, Gerhard K., to General Electric Company. Dual scale interval timer. 3,431,720, 3-11-69, Cl. 58-22.9
Ehni, George J., III, to Beta Corporation. Frequency threshold sensitive circuit. 3,440,442, 4-22-69, Cl. 307-233.
Ehrat, Kurt, to Ciba Limited. Method of and apparatus for encoding and decoding clear signal pulse sequences. 3,427,399, 2-11-69, Cl. 178-22.
Ehrat, Kurt, to Gretag Aktiengesellschaft. Distortion correction apparatus for use with transmission channels of limited bandwidth. 3,436,478, 4-1-69, Cl. 178-69.
Ehrat, Kurt; and Zuehlke, Gerhard, to Ciba Limited. Tape punching mechanism. 3,453,919, 7-8-69, Cl. 83-589.
Ehrbar, Jakob; and Flury, Emil, to Ciba Limited. Machine for laying jointless floor surfacings. 3,463,062, 8-26-69, Cl. 94-39.
Ehrenberg, Hermann. Electrical quick break switch. 3,430,168, 2-25-69, Cl. 335-205.
Ehrenberg, Nathan S., to Bendix Corporation, The. Method of counting semiconductor devices on thick film circuits. 3,460,241, 8-12-69, Cl. 29-590.
Ehrenberger, Friedrich; Gorbach, Siegbert; and Hommel, Karl. Oxyhydrogen combustion apparatus for determining the sulphur and halogen contents of organic substances. 3,428,433, 2-18-69, Cl. 23-253.
Ehrenfeld, David A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,428,761.
Ehrenfels, Alfred L.; and Kahl, Paul C., to Maxson Electronics Corporation. Pivot for snap-acting switch. 3,476,898, 11-4-69, Cl. 200-67.
Ehrenford, Frank A., to Dow Chemical Company, The. Control of gastropods with substituted salicylanilides. 3,469,006, 9-23-69, Cl. 424-230.
Ehrenreich, A., & Cie: *See—*
Gottschald, Rudolf, 3,423,114.
Gottschald, Rudolf; and Maxeiner, Gottfried, 3,439,946.
Gottschald, Rudolf, 3,445,131.
Gottschald, Rudolf, 3,472,540.
Schmidt, Andreas, 3,422,526.
Schmidt, Andreas, 3,429,599.
Ehrens, Henry; and Weiner, Sidney, to Sealed Unit Parts Co., Inc. Proportioning valve. 3,456,675, 7-22-69, Cl. 137--210
Ehrens, Henry; and Weiner, Sidney, to Sealed Unit Parts Co., Inc. Line tap valve and method for tapping into a pipeline. 3,480,036, 11-25-69, Cl. 137-318.
Ehrenspeck, Hermann W. Short backfire antenna. 3,438,043, 4-8-69, Cl. 343-819.
Ehrenstein, Elemir; and Slabon, Ivan, to Vyskumny Ustav Zvaracsky. Electrode nozzle. 3,431,391, 3-4-69, Cl. 219-130.
Ehrentraut, Heinz: *See—*
Hilbig, Erich; Ehrentraut, Heinz; Reimann, Hubertus; and Schutze, Siegfried,3,472,141.
Ehrenzeller, Wesley S.; and Call, Donald H., to American Design and Development Corporation. Incinerator. 3,456,604, 7-22-69, Cl. 110-8.
Ehrenzeller, Wesley S.; and Call, Donald H., to American Design and Development Corporation. Incinerator. 3,460,489, 8-12-69, Cl. 110-8.
Ehresman, Virgil A., to Sperry Rand Corporation. Parametric device having pump field and easy axis disposed at an angle. 3,445,674, 5-20-69, Cl. 307-88.
Ehret, Robert J., to Beckman Instruments, Inc. Overspeed shutdown system for centrifuge apparatus. 3,436,637, 4-1-69, Cl. 318-449.
Ehret, Yale W.; and Zoltok, Harry. Sash release mechanism. 3,431,677, 3-11-69, Cl. 49-141.
Ehrgott, Charles W.; and Kerschner, Paul M., to Cities Service Oil Company. Oxidation of waxes in the presence of an esterifying agent and reduction of oxidized waxes to polyhydroxy-waxes. 3,425,930, 2-4-69, Cl. 208-27.
Ehrhardt & Sehmer, Maschinenfabrik A.G.: *See—*
Urtel, Max, 3,422,651.
Ehrhardt, Erwin: *See—*
Baron, Gerhard; Ehrhardt, Erwin; and Bechthold, Horst,3,436,198.
Gross, Hans Werner; Ehrhardt, Erwin; and Baron, Gerhard,3,468,641.
Ehrhardt, Henry B. Automatic washer for small machine parts. 3,464,429, 9-2-69, Cl. 134-140.
Ehrhart, Gustav: *See—*
Leditschke, Heinrich; Ehrhart, Gustav; Ruschig, Heinrich; and Meixner, Willi,3,462,456.
Ehrhart, Gustav; Gericke, Dietmar; and Ott, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. N-Dichloroacetyl-β-(p-fluorophenyl)-alanine and its sodium salt. 3,468,952, 9-23-69, Cl. 260-518.
Ehrhart, Gustav; Leditschke, Heinrich; Meixner, Willi; and Ruschig, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Phenyl acetic acid amides. 3,474,140, 10-21-69, Cl. 260-559.
Ehrhart, Gustav; Lindner, Ernst; and Ott, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. α-Aminocarboxylic acid esters. 3,475,482, 10-28-69, Cl. 260-471.
Ehrhart, Gustav; Ther, Leopold; Alpermann, Hans-Georg; and Ott, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Piperidine derivatives and their salts. 3,426,028, 2-4-69, Cl. 260-294.3
Ehrhart, Wendell A., to Armstrong Cork Company. Cyclic esters of o-phthalic acid and a glycol ether. 3,431,279, 3-4-69, Cl. 260-340.2
Ehrhart, Wendell A.; and Rohrer, Clarence E., to Armstrong Cork Company. Process for the preparation of high molecular weight predominately hydroxy terminated ortho- phthalate containing polyesters. 3,457,236, 7-22-69, Cl. 260-75.
Ehrich, Fredric Franklin, to General Electric Company. Gas turbine engine with screech attenuating means. 3,437,173, 4-8-69, Cl. 181-48.
Ehrich, Fredric Franklin, to General Electric Company. Shingled combustion liner. 3,485,043, 12-23-69, Cl. 60-39.65
Ehrig, Raymond J.; and Kundell, Frederick A., to Grace, W. R., & Co. Polymerization of diacetone crylamide by electrolysis. 3,434,946, 3-25-69, Cl. 204-72.
Ehrig, Raymond J.; and Lin, Tien-Sung, to Grace, W. R., & Co. Coating process. 3,464,849, 9-2-69, Cl. 117-132.
Ehring, Heinz; Peltzer, Bernd; and Kreuder, Hans-Joachim, to Farbenfabriken Bayer Aktiengesellschaft. Stoving lacquers based on spontaneously cross- linking alkyd resins and alpha-alkoxy- alkyl isocyanates. 3,471,425, 10-7-69, Cl. 260-22.
Ehrler, Clelan G.; and Seifert, Larry A., to Golden-West Dental, Inc. Drive means. 3,440,726, 4-29-69, Cl. 32-23.
Ehrler, John L., to Esso Research and Engineering Company. Hydrofining processing technique for improving the color properties of middle distillates. 3,483,119, 12-9-69, Cl. 208-264.
Ehrlich, Arthur; Hayes, John W.; and Patton, Temple C. Polyurethane prepolymers and elastomers. 3,483,150, 12-9-69, Cl. 260-18.
Ehrlich, Benjamin F.: *See—*
Espey, Harry R.; and Ehrlich, Benjamin F.,3,462,665.
Ehrlich, Burney J.; Spence, David W.; and Frisby, Clinton D., to Infotronics Corporation. Magnetic recording and playback apparatus for analytical signals. 3,475,740, 10-28-69, Cl. 340-174.1
Ehrlich, Hans Werner Walter: *See—*
Duncanson, Leonard Andrew; and Ehrlich, Hans Werner Walter,3,459,796.
Ehrlich, Henry L., to Mobil Oil Corporation. Method and apparatus for alleviating erosion in multiple-completion wells. 3,460,626, 8-12-69, Cl. 166-313.
Ehrlich, John J.; Hutcheson, Guilford J., Jr.; Rust, Charles M.; Roberts, Thomas G.; and Cason, Charles M., III, to United States of America, Army. Laser powermeter. 3,464,267, 9-2-69, Cl. 73-190.
Ehrlich, Joseph Ronald. Pore-filled open-cell foam. 3,471,419, 10-7-69, Cl. 260-2.5
Ehrlich, Joseph R., to Meredith Publishing Company. Invisible ink. 3,438,927, 4-15-69, Cl. 260-33.4
Ehrlich, Joseph R. Toy for blowing bubbles. 3,443,337, 5-13-69, Cl. 46-6.
Ehrlich, Melvin P., to NRA, Inc. Method and means for storing and releasing energy by stimulated emission of electromagnetic radiation. 3,479,608, 11-18-69, Cl. 330-4.
Ehrlich, Melvin P.; and Stoller, Milton, to Nuclear Research Associates, Inc. Magnesium-cupric oxide primary battery. 3,441,445, 4-29-69, Cl. 136-100.
Ehrlich, Robert; and Shapiro, Philip, to Thiokol Chemical Corporation. Bis-polyquaternary ammonium thiophenoxides. 3,487,084, 12-30-69, Cl. 260-268.
Ehrlich, Robert: *See—*
Young, Archie R., II; and Ehrlich, Robert,3,433,817.
Ehrman, Ernest W. Shell or umbrella structures. 3,478,759, 11-18-69, Cl. 135-20.
Ehrmann, Wilhelm: *See—*
Mittag, Hermann; Ehrmann, Wilhelm; and Fuessle, Klaus,3,484,675.
Ehrreich, John E.; and Avery, Donald H., to Chomerics, Inc. Iron based conductive filler for plastics. 3,476,530, 11-4-69, Cl. 29-192.
Ehrsam Company: *See—*
Kelley, Hugh D., 3,468,410.
Eibensteiner, Walter, to North American Philips Company, Inc. Automatic stop apparatus for a recorder/reproducer. 3,434,725, 3-25-69, Cl. 274-4.
Eibich, Alfred: *See—*
Parkinson, John; Eibich, Alfred; and Saylor, Edward T., Jr.,3,442,248.

Eibl, Josef; and Albrecht, Wilhelm, to Daimler-Benz Aktiengesellschaft. Safety steering for motor vehicles. 3,483,770, 12-16-69, Cl. 74-552.
Eich, Clarence C., to Foster Wheeler Corporation. Vapor generator tube bank. 3,442,256, 5-6-69, Cl. 122-406.
Eich, Walter J., to Westinghouse Electric Corporation. Control element. 3,485,717, 12-23-69, Cl. 176-86.
Eichas, Heinz: *See—*
Schubert, Alfred; and Eichas, Heinz,3,432,146.
Eichberg, Frank D., to Plummer, Walter A. Shielded jacketing for cable junctions. 3,423,515, 1-21-69, Cl. 174-36.
Eichberg, Joseph, executor: *See—*
Sokol, Herbert Z.,3,421,664.
Eichel, Bertram, 5% to Isaacs, Alvin, and 10% to Shahrik, H. Arto. Tobacco product incorporating a filter designed to inhibit the adverse effect of tobacco smoke on oral ubiquitous leucocytes. 3,459,194, 8-5-69, Cl. 131-10.
Eichelberger, Charles D., to General Electric Company. Mounting means for the stationary studs of draw-out metal clad switchgear. 3,461,348, 8-12-69, Cl. 317-103.
Eichelberger, William E., to Corning Glass Works. Miniature pressure transducer. 3,440,873, 4-29-69, Cl. 73-141.
Eichelman, George H., Jr., to Olin Mathieson Chemical Corporation. Process for treating copper base alloys. 3,464,865, 9-2-69, Cl. 148-11.5
Eichelman, George H., Jr.; and Broverman, Irwin, to Olin Mathieson Chemical Corporation. Copper base alloy. 3,484,307, 12-16-69, Cl. 148-32.
Eichelmann, Johannes, to VEB Elktromat. Stator winding apparatus. 3,458,145, 7-29-69, Cl. 242-1.1
Eichenbaum, Raymond: *See—*
Geacintov, Cyril; Eichenbaum, Raymond; and Wu, William C. L.,3,464,962.
Eichenberger, Hans P.: *See—*
Robertson, Anthony E.; Pauliukonis, Richard S.; and Eichenberger, Hans P.,3,486,332.
Eichenberger, Kurt: *See—*
Schmidt, Paul; Eichenberger, Kurt; and Wilhelm, Max,3,475,443.
Schmidt, Paul; Eichenberger, Kurt; Rossi, Alberto; and Wilhelm, Max,3,444,177.
Schmidt, Paul; Schweizer, Ernst; Eichenberger, Kurt; and Wilhelm, Max,3,422,098.
Schmidt, Paul; Wilhelm, Max; and Eichenberger, Kurt,3,455,928.
Eichenberger, Walter W. Process for making sand molds. 3,431,968, 3-11-69, Cl. 164-39.
Eichenbrenner, Fred F.: *See—*
Illg, Walter; and Eichenbrenner, Fred F.,3,472,060.
Eichenlaub, John E. Deformation responsive indicating panel. 3,459,908, 8-5-69, Cl. 200-61.08
Eichenthal, Judah: *See—*
Rosin, Seymour; Gelles, Rubin; and Eichenthal, Judah,3,472,577.
Eicher, Gerald H.: *See—*
Wolfe, Denis G.; Genbauffe, Francis S.; and Eicher, Gerald H.,3,469,779.
Eicher, Werner: *See—*
Zimmermann, Karl; Sturzenegger, Carlmax; and Eicher, Werner,3,441,141.
Eichers, Ursula: *See—*
Rombusch, Konrad; and Eichers, Ursula,3,441,552.
Rombusch, Konrad; and Eichers, Ursula,3,441,553.
Rombusch, Konrad; and Eichers, Ursula,3,485,786.
Eichhorn, Robert M.: *See—*
Hoffman, William D.; Burk, Emmett H., Jr.; and Eichhorn, Robert M.,3,432,570.
Eichin, Werner; and Katz, Helmut, to Siemens Aktiengesellschaft. Traveling wave tube with delay line supports having a lossy layer and an insulation layer. 3,466,494, 9-9-69, Cl. 315-3.5
Eichler, Dieter: *See—*
Reichardt, Wolfgang; Eichler, Dieter; Scholl, Hermann; and Wahl, Josef,3,463,130.
Scholl, Hermann; Rabus, Friedrich; Eichler, Dieter; Kadelbach, Volker; Reichardt, Wolfgang; and Schmidt, Peter Jurgen,3,433,101.
Eichler, Ewald G., to Raytheon Company. Acoustic receiver for minimizing flow noise. 3,485,318, 12-23-69, Cl. 181-0.5
Eichler, Friedrich; Seip, Paulus Johannes; and Czedik-Eysenberg, Peter, to Lever Brothers Company. Process and apparatus for improving fats. 3,423,442, 1-21-69, Cl. 260-420.
Eichmann, Albert Carl: *See—*
Damm, Carl A.; and Eichmann, Albert Carl,3,469,872.
Eichmiller, Frederick E.: *See—*
Bang, Mogens W.; Hanson, Earl A.; and Eichmiller, Frederick E.,3,448,428.
Eichmiller, Gloria: *See—*
Bang, Mogens W.; Hanson, Earl A.; and Eichmiller, Frederick E.,3,448,428.
Eichner, Minablle D. Mop holder. 3,452,383, 7-1-69, Cl. 15-147.
Eichner Organisation G.m.b.H.: *See—*
Gottschalk, Gunther; and Krause, Dieter H. N., 3,420,351.
Kolless, Siegfried, 3,465,122.
Spiroch, Franz; Kolless, Siegfried; and Pons, Heinz, 3,445,796.
Spiroch, Franz; and Beckert, Werner, 3,476,299.
Eicholz, Arthur H., to Central Quality Industries, Inc. Portable clothes dryer. 3,432,939, 3-18-69, Cl. 34-151.
Eichorn, Robert N., to International Business Machines Corporation. Continuous card form. 3,450,419, 6-17-69, Cl. 281-5.
Eichorn, Roger H.; and Kaupp, Norbett H., to Xerox Corporation. Method and apparatus for cleaning xerographic plates. 3,424,615, 1-28-69, Cl. 134-7.
Eichorn, Roger H.; and Kaupp, Norbett H., to Xerox Corporation. Scanning system. 3,484,163, 12-16-69, Cl. 355-3.
Eick, George H.: *See—*
Stone, James N.; and Eick, George H.,3,423,219.
Eick, Meredith K.: *See—*
Roney, Robert K.; Rosen, Harold A.; Hudspeth, Thomas; Suyematsu, Herbert T.; and Eick, Meredith K.,3,453,621.
Eickemeyer, Daniel B.: *See—*
Chao, Tai S.; and Eickemeyer, Daniel B.,3,446,738.
Eickemeyer, Rudolf: *See—*
Progler, Hans; Samaga, Wilhelm; Ehms, Hermann; and Eickemeyer, Rudolf,3,459,148.
Eickenhorst, Franklin C.: *See—*
Fraze, Ermal C.; and Eickenhorst, Franklin C.,3,470,837.
Eicker, Robert, to Zahnfabrik Wienand Sohne & Co. G.m.b.H. Furnace for ceramic dental products. 3,441,652, 4-29-69, Cl. 13-20.
Eickmann, Karl. Hydrostatic-mechanical transmission. 3,457,808, 7-29-69, Cl. 74-730.
Eickmann, Karl. Piston shoes, guide means and compact rotor means in radial piston machines. 3,468,262, 9-23-69, Cl. 103-161.
Eide, Malvin O., to United Control Corporation. Amplifier with floating input. 3,482,175, 12-2-69, Cl. 330-24.
Eide, Melvin O.: *See—*
Clark, Donald E.; and Eide, Melvin O.,3,435,670.
Eidelberg, Jonah: *See—*
Goldsobel, Norman; and Eidelberg, Jonah,3,454,291.
Eidinger, Robert. Holder for X-ray films and reports. 3,464,135, 9-2-69, Cl. 40-159.
Eidnes, Dag J.: *See—*
Cady, Mark J.; and Eidnes, Dag J.,3,465,580.
Eidt, Clarence Martin, Jr.: *See—*
Taylor, James Howard; and Eidt, Clarence Martin, Jr.,3,432,535.
Eidt, Scott H., to Stauffer Chemical Company. Preparation of diorganozinc compounds. 3,475,475, 10-28-69, Cl. 260-429.9
Eigeman, Jacobus; and Tuinhof, Anton Dirk, to U.S. Philips Corporation. Housing and lead structure for high frequency semiconductor device operation. 3,476,990, 11-4-69, Cl. 317-235.
Eigen, David, to Okonite Company, The. Cable scanning method and apparatus wherein corona discharge is detected only at approximately peak values of an applied voltage. 3,421,076, 1-7-69, Cl. 324-54.
Eigen, David, to Okonite Company, The. Cable scanning method and apparatus utilizing short bursts of highly penetrating radiation. 3,466,537, 9-9-69, Cl. 324-54.
Eigenfeld, Edmund Gerald; and Vogel, Karl Stuart, to Firestone Tire & Rubber Company, The. Weather resistant rubbery composition. 3,423,348, 1-21-69, Cl. 260-28.5
Eigenmann, Gustav A. A.; and Grant, Rixwill S., to Wonder Door Holdings (Proprietary) Limited. Closures. 3,486,272, 12-30-69, Cl. 49-192.
Eiger, William H., to General Motors Corporation. Self-loading scraper bowl. 3,431,659, 3-11-69, Cl. 37-4.
Eiger, William H., to General Motors Corporation. Ejector for scraper bowl. 3,431,663, 3-11-69, Cl. 37-129.
Eiger, William H., to General Motors Corporation. Control for scraper bowl to remove load from hydraulic curcuit when bowl is raised. 3,479,757, 11-25-69, Cl. 37-129.
Eiken Kizai Kabushiki Kaisha: *See—*
Wada, Yosiaki, 3,456,647.
Eikermann, Jerry G.: *See—*
Hawley, Paul A.; and Eikermann, Jerry G.,3,443,479.
Eiland, Ehrlich M., to Aluminum Company of America. Method of improving the receptivity for adhesively applied coatings of aluminum surfaces having residual rolling oils thereon. 3,460,966, 8-12-69, Cl. 117-49.
Eiler, Peter, to Gottwald, Leo, K.G. Telescopic jib for jib cranes. 3,481,490, 12-2-69, Cl. 212-55.
Eilerman, George E., to PPG Industries Inc. Process for preparing reinforcing fabric for elastomeric products. 3,459,615, 8-5-69, Cl. 156-181.
Eilerman, George E.; Sanguigni, John A.; Kolek, Robert L.; Fasnacht, James J.; and McWilliams, Donald E., to PPG Industries, Inc. Forming glass fiber with combination resin coating. 3,437,517, 4-8-69, Cl. 117-126.
Eilerman, George E.: *See—*
Killmeyer, Charles W.; and Eilerman, George E.,3,459,585.

Eilers, Barney A.: *See—*
Nelson, Norman A.; Tooley, Henry C.; Eilers, Barney A.; and Helenberg, John,3,463,449.
Eilers, Carl G.: *See—*
Dias, Fleming; Eilers, Carl G.; and Rypkema, Jouke N.,3,466,386.
Eilers, Elvin L.: *See—*
Breon, Pearl L.; Kress, Ralph H.; Medley, Jackson C.; Eilers, Elvin L.; and Kostas, James M.,3,486,576.
Eilers, John A. Track driving system. 3,459,459, 8-5-69, Cl. 305-33.
Eilers, Louis H., to Dow Chemical Company, The. Composition and method using temporary solid diverting agent for aqueous fluids. 3,480,084, 11-25-69, Cl. 166-282.
Eilers, Louis H.; and Parks, Christ F., to Dow Chemical Company, The. Grouting, plugging, and consolidating method. 3,421,584, 1-14-69, Cl. 166-33.
Eiloart, Timothy March Beaupre: *See—*
Edge, Gordon Malcolm; Eiloart, Timothy March Beaupre; Horabin, Ivan S.; and Rayner, Peter John Wynn,3,423,845.
Eimco Corporation, The: *See—*
Davis, Steven S.; and Slajchert, George, 3,426,908.
Hackett, Theodore N., 3,452,889.
McCay, Frank V., Jr., 3,425,573.
Einfalt, Alfred, to Gebruder Einfalt Blechspielwarenfabrik. Toy vehicle track set. 3,426,474, 2-11-69, Cl. 46-40.
Einfalt, Alfred, to Bebruder Einfalt, Blechspielwarenfabrik. Toy with a track for a toy vehicle. 3,456,382, 7-22-69, Cl. 46-202.
Einfalt, Alfred, to Gebruder Einfalt Blechspielwarenfabrik. Toy vehicles combined with plural tracks and loading and unloading means. 3,466,791, 9-16-69, Cl. 46-40.
Einhorn, Aaron. Adjustable punch holder. 3,482,478, 12-9-69, Cl. 83-100.
Einhorn, Stanley C., to Budd Company, The. Reinforced cast nylon slipper bearings for universal joint. 3,452,556, 7-1-69, Cl. 64-7.
Einstein, Edward; and Nell, David J., to Dresser Industries, Inc. Method of burning magnesium and calcium carbonate materials. 3,483,280, 12-9-69, Cl. 263-53.
Einthoven, Willem Gerard, to U.S. Philips Corporation, mesne. High-voltage transistor with controlled base and collector doping and geometry. 3,449,646, 6-10-69, Cl. 317-235.
Eirich, Gustav: *See—*
Eirich, Wilhelm; and Eirich, Gustav,3,420,507.
Eirich, Wilhelm; and Eirich, Gustav,3,480,261.
Eirich, Wilhelm; and Eirich, Gustav. Mixing apparatus. 3,420,507, 1-7-69, Cl. 259-84.
Eirich, Wilhelm; and Eirich, Gustav. Process of mixing. 3,480,261, 11-25-69, Cl. 259-148.
Eisai Co., Ltd.: *See—*
Kijima, Shizumasa; and Konita, Takeshi, 3,432,525.
Nakamura, Tetsuya; and Kijima, Shizumasa, 3,459,774.
Eisai Kabushiki Kaisha: *See—*
Kono, Shigeharu; and Sugiyama, Kunishige, 3,444,211.
Eisberg, Keith V., to Carrier Corporation. Absorption refrigeration systems having solution-cooled absorbers. 3,423,951, 1-28-69, Cl. 62-101.
Eisberg, Keith V.; and Foster, Glenn B., to Carrier Corporation. Absorption refrigeration system control. 3,466,887, 9-16-69, Cl. 62-141.
Eisberg, William Laurel, Jr.; and Hill, Carl Eugene, to General Electric Company. Tube holding means for electrochemical machining apparatus. 3,467,592, 9-16-69, Cl. 204-224.
Eisele, Hermann: *See—*
Derrick, Robert P.; and Eisele, Hermann,3,440,507.
Eisele, Hermann; Rabus, Friedrich; and Rimatzki, Walter, to Bosch, Robert G.m.b.H. Fuel injection system for internal combustion engines. 3,470,854, 10-7-69, Cl. 123-32.
Eisele, John A., to United States of America, Navy. Switch bailing circuit. 3,461,444, 8-12-69, Cl. 340-332.
Eisele, Werner Frank; and Lukas, Helmut H., to Northern Electric Company Limited. Electric fuse device. 3,464,046, 8-26-69, Cl. 337-238.
Eiselstein, Herbert L.; and Bassford, Thomas H., to International Nickel Company, Inc., The. Nickel-chromium-iron alloy and heat treating the alloy. 3,459,539, 8-5-69, Cl. 75-128.
Eiseman, Bernhardt J., Jr., to Du Pont de Nemours, E. I., and Company. Azeotropic composition. 3,444,085, 5-13-69, Cl. 252-67.
Eiseman, Fred S., Jr.; and Schenck, Leslie M., to GAF Corporation. Low foaming biodegradable surfactant compositions. 3,426,077, 2-4-69, Cl. 260-615.
Eiseman, Fred S., Jr.; and Schenck, Leslie M., to GAF Corporation. Anionic detergents of sulfoalkylcarbamate esters. 3,454,624, 7-8-69, Cl. 260-481.
Eiseman, Fred S., Jr.; and Schenck, Leslie M., to GAF Corporation. Novel quaternary ammonium carbamate antistatic agents. 3,454,625, 7-8-69, Cl. 260-482.
Eiseman, Fred S., Jr.; Schenck, Leslie M.; and Mackey, E Scudder, to GAF Corporation. Gelatin coating composition containing purified polyoxyalkylene glycol ether. 3,442,654, 5-6-69, Cl. 96-109.
Eiseman, William F.: *See—*
Lemon, Stanley G.; Eiseman, William F.; and Donoho, Charles M.,3,431,778.
Eisen, Carl F. Device for feeding plastic containers in pairs. 3,463,296, 8-26-69, Cl. 198-43.
Eisen- und Drahtwerk Erlau AG: *See—*
Muller, Anton, 3,422,872.
Eisen-und Drahtwerk Erlau A.G.: *See—*
Schurle, Werner; Muller, Anton; and Witzel, Gunter, 3,429,353.
Eisenbach, Joachim. Packaging consisting of thermoplastic foil. 3,421,682, 1-14-69, Cl. 229-51.
Eisenbau Albert Ziefle K.G.: *See—*
Braun, Karlheinz, 3,432,186.
Eisenberg, Alfred. Packaging and shipping container for eggs and the like. 3,446,417, 5-27-69, Cl. 229-36.
Eisenberg, Alfred. Packaging and shipping container for eggs and the like. 3,476,306, 11-4-69, Cl. 229-40.
Eisenberg, Benjamin: *See—*
Magee, Ellington M.; and Eisenberg, Benjamin,3,441,402.
Eisenberg, Benjamin; and Magee, Ellington M., to Esso Research and Engineering Company. Production of magnesium by thermal treatment of magnesium oxide utilizing countercurrently flowing hot inert gas. 3,427,152, 2-11-69, Cl. 75-67.
Eisenberg, Bernard C. Cucumber harvester. 3,457,711, 7-29-69, Cl. 56-27.
Eisenberg, Bernard C., to Solbern Corporation. Spear packing apparatus. 3,468,098, 9-23-69, Cl. 53-123.
Eisenberg, David J., to Cadillac Overall Supply Company, mesne. Rugs having backings of nitrile latices. 3,457,105, 7-22-69, Cl. 117-161.
Eisenberg, Harold, to Honeywell Inc. Alarm apparatus. 3,478,352, 11-11-69, Cl. 340-409.
Eisenberg, Harry H. Lining of dental cavity. 3,471,927, 10-14-69, Cl. 32-15.
Eisenberg, Harvey. Collapsible portable commode. 3,484,875, 12-23-69, Cl. 4-142.
Eisenberg, Mark F., to Hewlett-Packard Company. Power supply amplifier having means for protecting the output transistors. 3,486,124, 12-23-69, Cl. 330-13.
Eisenberg, Melvin I. Fluid container bag with self closing one way valve. 3,473,532, 10-21-69, Cl. 128-227.
Eisenberg, Morris: *See—*
Cherney, Seymour; Klein, Martin G.; and Eisenberg, Morris,3,438,812.
Eisenberg, Morris, to Electrochimica Corporation. Organic electrolyte electrochemical system. 3,468,716, 9-23-69, Cl. 136-100.
Eisenberg, Sylvan. Tracers. 3,469,990, 9-30-69, Cl. 99-2.
Eisenbies, John L., to International Business Machines Corporation. Data transmission apparatus. 3,480,915, 11-25-69, Cl. 340-172.5
Eisendrath, David C., to Cory Corporation. Liquid control apparatus. 3,422,745, 1-21-69, Cl. 99-282.
Eisendrath, David C., to Cory Corporation. Controlled chemical feeder with antidiffusion means. 3,476,137, 11-4-69, Cl. 137-268.
Eisendrath, David C.: *See—*
Karlen, Harvey R.; and Eisendrath, David C.,3,433,149.
Karlen, Harvey R.; Wagner, Herbert E.; and Eisendrath, David C.,3,467,130.
Eisengrein, Robert H.; and Blackwell, Francis O., III, to SFM Corporation. Pattern tracing apparatus employing crossline detection circuits to control auxiliary functions. 3,437,813, 4-8-69, Cl. 250-202.
Eisengrein, Robert H.; Blackwell, Francis O., III; and Golden, Forrest B., to SFM Corporation. Machine control system for generating rectilinear and curvilinear geometrical forms. 3,441,817, 4-29-69, Cl. 318-18.
Eisenhard, Eli S., to Boyertown Burial Casket Company. Casket gasket. 3,461,517, 8-19-69, Cl. 27-17.
Eisenhart, Arlin C.: *See—*
Raso, Vito; and Eisenhart, Arlin C.,3,434,366.
Eisenhauer, Roy J.; and Evans, Phillip W., to Monsanto Company. Production of olefinic nitriles by catalytic dehydration of monohydroxlated paraffinic nitriles and subsequent flash distillation. 3,479,389, 11-18-69, Cl. 260-465.9
Eisenhuth, Wolfgang H.; Moedritzer, Kurt; and Van Wazer, John R., to Monsanto Company. Nitrogen containing organogermanium compounds. 3,487,096, 12-30-69, Cl. 260-429.
Eisenlohr, Karl Heinz; and Wirth, Hans, to Metallgesellschaft Aktiengesellschaft. Process for recovering pure aromatics. 3,433,849, 3-18-69, Cl. 260-674.
Eisenman, Arnold. Motor vehicle lock. 3,431,755, 3-11-69, Cl. 70-181.
Eisenman, George, to Corning Glass Works, mesne. Method for measuring sodium ion. 3,450,604, 6-17-69, Cl. 204-1.
Eisenmann, John L.: *See—*
Sohn, Bernard I.; Eisenmann, John L.; and Alexander, Samuel S.,3,480,495.
Eisenmann, Joseph: *See—*
Meier, Hermann; Eisenmann, Joseph; Dohse, Ruthard; and Ahlert, Wilhelm,3,456,333.

Eisentraut, Kent J.; and Sievers, Robert E. Separation of chelates of rare earth compounds and promethium by fractional sublimation. 3,429,904, 2-25-69, Cl. 260-429.1

Eisentraut, Kent J.; and Sievers, Robert E. Gas phase chromatographic separation of lanthanide rare earth chelates. 3,453,319, 7-1-69, Cl. 260-492.2

Eisentrout, Carl H. Industrial furnace burner. 3,429,300, 2-25-69, Cl. 122-6.5

Eisenwerk Rothe Erde G.m.b.H.: *See—*
Schluter, Wilhelm; and Pohler, Heinz, 3,482,892.
Schmude, Wolfgang; and Pohler, Heinz, 3,478,402.

Eisermann, Bernhard R. R.: *See—*
Roesler, Hans; and Eisermann, Bernhard R. R.,3,466,443.

Eisert, Gerald A.; and Haaker, Lester W., to Central Research Laboratories, Inc. Clamp-on load hook. 3,433,370, 3-18-69, Cl. 214-1.

Eisert, Gerald A.: *See—*
Jelatis, Demetrius G.; Haaker, Lester W.; and Eisert, Gerald A.,3,474,250.

Eisfeld, Wolfang T.; and Weil, Edward D., to Stauffer Chemical Company. Process for the preparation of dialkyl polysulfides. 3,444,241, 5-13-69, Cl. 260-608.

Eisfeld, Wolfgang T.; and Stamm, Walter, to Stauffer Chemical Company. Preparation of bis(1-haloalkyl) sulfides. 3,480,680, 11-25-69, Cl. 260-609.

Eishley, Charles F.: *See—*
Feichter, Harold R.; Abernethy, Ira A.; Eishley, Charles F.; Cable, Stephen J.; and Hoffman, Olin M.,3,444,660.

Eisinga, Simon; and Keet, Lourens, to Esso Production Research Company, mesne. Liquid and gas pumping unit. 3,486,297, 12-30-69, Cl. 55-21.

Eisler, Paul. Wall covering material for use in space heating. 3,473,003, 10-14-69, Cl. 219-213.

Eisler, Paul. Electrically heatable package. 3,483,358, 12-9-69, Cl. 219-385.

Eisler, Sidney. Eyeglasses having lenses resiliently secured in a grooved half frame. 3,471,222, 10-7-69, Cl. 351-61.

Eisner, Edward, to Bell Telephone Laboratories, Incorporated. Photochromic filler for eliminating-unwanted background radiation. 3,454,778, 7-8-69, Cl. 250-237.

Eisner, Edward, to Bell Telephone Laboratories, Incorporated. Gas bearing. 3,480,340, 11-25-69, Cl. 308-5.

Eisner, Ira Leonard. Radial phonograph pickup arm and turntable combination using air bearings. 3,479,038, 11-18-69, Cl. 274-23.

Eissele, Heini: *See—*
Albeck, Bernhard; and Eissele, Heini,3,464,535.

Eissfeldt, Erich; and Kofferlein, Rainer, to Siemens Aktiengesellschaft. Selective punch device. 3,459,370, 8-5-69, Cl. 234-114.

Eissler, Robert L., to Ball Brothers Company, Incorporated. Presensitized photoengraving plate and method of making same. 3,481,738, 12-2-69, Cl. 96-86.

Eitel, Alfred; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Benzodioxan-N-methylcarbamates. 3,455,912, 7-15-69, Cl. 260-340.3

Eitel, Jay M., to Telsta Corporation. Lifting equipment. 3,437,175, 4-8-69, Cl. 182-46.

Eitl, Stefan: *See—*
von Arland, Otto Czerweny; Oswald, Heinrich; and Eitl, Stefan,3,484,102.

Eitzen, Vincent E.: *See—*
Moore, Robert R.; and Eitzen, Vincent E.,3,441,210.

Eizenberg, Arthur, 1/3 to Raznick, Aaron L., and 1/3 to Raznick, David L. Disposable thermometer. 3,469,451, 9-30-69, Cl. 73-371.

Eizo Komiyama: *See—*
Makishima, Shoji, 3,468,046.
Naito, Masashi, 3,477,156.

Ejiri, Masakazu: *See—*
Kamoi, Akira; and Ejiri, Masakazu,3,484,780.

Ejlertsen, Bent N., to Nielsen, H., & Son Maskinfabrik A/S. Magnet lifting yoke. 3,486,784, 12-30-69, Cl. 294-65.5

Ek, Birger Henrik; and Stenudd, Even Gunnar Walter, to Facit AB. Hole punching devices for recording media. 3,478,629, 11-18-69, Cl. 83-169.

Ek, C. Harold: *See—*
Varterasian, John H.; and Ek, C. Harold,3,431,498.

Ek, Stig Yngve: *See—*
Jacobson, David Esriel; and Ek, Stig Yngve,3,426,684.

Ekco Containers, Inc.: *See—*
Griese, Elmer W., Jr., 3,429,096.

Ekco Products, Inc.: *See—*
Johnson, Charles J., Jr.; and Westerlund, Harry G., 3,435,588.

Ekdahl, Wendell Graydon, to Johns-Manville Corporation. Apparatus for delivering molten materials. 3,420,938, 1-7-69, Cl. 13-9.

Ekdahl, Wendell Graydon, to Johns-Manville Corporation. Refractory fibers for service to 2700° F. 3,449,137, 6-10-69, Cl. 106-50.

Eketorp, Sven Gustaf Harald: *See—*
Vallak, Enn; and Eketorp, Sven Gustaf Harald,3,450,188.

Ekholm, Rolf Leo: *See—*
Hellstrom, Nils Erik; and Ekholm, Rolf Leo,3,458,872.

Ekkelboom, Tjepke Hendrik: *See—*
Jansen, Johannes Adrianus Cornelis; and Ekkelboom, Tjepke Hendrik,3,484,639.

Eklund, Henrik J., to Jones Division, Beloit Corporation. Cylindrical target for high volume gas entrained paper pulp refiner discharge. 3,422,450, 1-14-69, Cl. 162-247.

Eklund, Kurt Ingvar, to ECE Patent AB. Loading pallet. 3,472,182, 10-14-69, Cl. 108-51.

Eklund, Kurt Ingvar. Method and means for fastening a wooden member to a metal support. 3,486,738, 12-30-69, Cl. 256-22.

Eklund, Phillip R.; and Campbell, Gabe L. Method of making hollow balls for use in ball bearing and/or similar rolling operations. 3,470,720, 10-7-69, Cl. 72-69.

Eklund, Stig Henry Sigurd, to Infor Institute for nyttiggorande av forskningsresultat. Multi-needle sewing machines. 3,463,102, 8-26-69, Cl. 112-164.

Ekman, Carl F. W.: *See—*
Berman, Elliot; and Ekman, Carl F. W.,3,424,582.

Ekstrom, Bertil Ake; and Sjoberg, Berndt Olof Harald, to Aktiebolaget Astra. Penicillins and their preparation. 3,471,474, 10-7-69, Cl. 260-239.1

Ekstrom, Gosta Ivar; and Blomberg, Jarl Joel, to Atlas Copco Aktiebolag. Recoil vibration damped percussive machine. 3,451,492, 6-24-69, Cl. 173-162.

Ekstrom, Staffan; and Yngvesson, Lindy, to Allmanna Svenska Elektriska Aktiebolaget. Device for transmitting control pulses to a rectifier. 3,424,972, 1-28-69, Cl. 321-38.

Ekwall, Carl Gosta Bernhard, to Atlas Copco Aktiebolag. Water valve for rock drills. 3,442,289, 5-6-69, Cl. 137-594.

El Bindari, Ahmed, to Avco Corporation. Composite electrical conductor. 3,433,892, 3-18-69, Cl. 174-126.

El Bindari, Ahmed, to Avco Corporation. Composite superconductive conductor and method of manufacture. 3,471,925, 10-14-69, Cl. 29-599.

El-Kareh, Auguste B.; Marsh, Charles R.; and Fair, Richard B., to United States of America, Navy, mesne. Secondary electron collection system. 3,472,997, 10-14-69, Cl. 219-121.

El Paso Products Company: *See—*
Cywinski, Norbert F., 3,450,767.
Hayes, William B., 3,454,619.
Steinmetz, Walter E., 3,422,145.
Steinmetz, Walter E., 3,450,765.
Steinmetz, Walter E., 3,450,766.

El Sayed, Mostafa A.: *See—*
Yariv, Amnon; Johnson, Fred M.; and El Sayed, Mostafa A.,3,465,166.

Elam, Edward U., to Eastman Kodak Company. Alkyl trialkylvinyl sulfides. 3,466,322, 9-9-69, Cl. 260-481.

Elastic Die Engineering Co.: *See—*
Moyer, Robert Franklin, 3,446,107.

Elastic GmbH: *See—*
Klaus, Arthur, 3,420,426.

Elberson, John L. Apparatus for scavenging exhaust gases. 3,430,617, 3-4-69, Cl. 123-148.

Elbert, Raymond J.; and Farrier, Ernest G., to Union Carbide Corporation. Process for producing porous metal bodies. 3,433,632, 3-18-69, Cl. 75-222.

Elble, James F. Combined pick-up truck camper body and houseboat. 3,473,839, 10-21-69, Cl. 296-23.

Elbling, Joseph; and Pomella, Piero, to Ing. C. Olivetti & C., S.p.A. Digital positioning control for machine-tools employing absolute and relative reference points. 3,450,868, 6-17-69, Cl. 235-151.11

Elbrecht, Donald W.; and Scherer, Robert C., to Baldwin, D. H., Company. Tone control systems for electric guitars and the like. 3,454,702, 7-8-69, Cl. 84-1.14

Elbreder, Charles H., to Garman Company, Incorporated. Chemical polishing composition and method. 3,442,810, 5-6-69, Cl. 252-79.4

Elcemco, Inc.: *See—*
Wood, Richard A., 3,482,686.

Elchaninov, Ivan Nikiforovich: *See—*
Akunts, Karlen Arminakovich; Kartsev, Alexandr Efimovich; Elchaninov, Ivan Nikiforovich; Tarnopolsky, Jury Matveevich; and Fish, Aron Yakovlevich,3,457,446.

Elco Corporation: *See—*
Adrien, Christain, 3,448,431.
Frompovicz, Frank J., 3,440,596.
Krum, Alan; Ruehlemann, Herbert E.; and Scheingold, William S., 3,474,387.
Mallatratt, Richard D., 3,474,203.
Zychal, Edward, 3,428,738.

Elco-Kunststoffe A Elges & Co.: *See—*
Duepree, Hans Werner, 3,438,164.

Elcon A.G.: *See—*
Stucky, Fritz C.; and Nelson, Kenneth W., 3,460,308.

Elconin, William B., to Award Metals Company. Pitched wall and roof seal. 3,423,889, 1-28-69, Cl. 52-58.

Elder, David, to Elder Oxygen Company, Inc. Backflow bypassing valve for breathing apparatus. 3,435,839, 4-1-69, Cl. 137-102.
Elder, George W. Inertial pump seismometer. 3,462,998, 8-26-69, Cl. 73-71.2
Elder, Keith A.: *See—*
Pinkman, Edward E.; and Elder, Keith A.,3,462,867.
Elder Oxygen Company, Inc.: *See—*
Elder, David, 3,435,839.
Elderidge, John W., Jr.: *See—*
Reed, Claude R.; Elderidge, John W., Jr.; and Lanari, Raymond,3,469,083.
Elderkin, Richard L.: *See—*
Talley, James E., Jr.; Spraker, Wilbur A., Jr.; and Elderkin, Richard L.,3,473,238.
Elders, Alvin J., to Whirlpool Corporation. Electronic control circuit for a dryer with timer runout. 3,471,938, 10-14-69, Cl. 34-45.
Elders, Gerald W. Roof bolt connection. 3,478,640, 11-18-69, Cl. 85-64.
Eldon Industries: *See—*
Truesdell, Warren L.; and McQuary, Kenneth L., 3,430,581.
Eldon Industries, Inc.: *See—*
Knowles, Alvis R., 3,436,718.
Eldon, Knud E. H., to Nordisk Insulinlaboratorium. Instrument for blood grouping on blood grouping cards. 3,424,558, 1-28-69, Cl. 23-253.
Eldorado Mining and Refining Limited: *See—*
Ashbrook, Allan W.; and Ritcey, Gordon M., 3,438,768.
Pittuck, Alan Dennis, 3,457,034.
Eldorado Tool & Mfg., Corp.: *See—*
Hotchkiss, Thomas W., 3,431,375.
Eldred, Roger J., to General Motors Corporation. Tri-ortho-tolylphosphine as a photopolymerization initiator. 3,450,616, 6-17-69, Cl. 204-159.23
Eldred, Roger J.; and Mao, Tzu J., to General Motors Corporation. Photopolymerization using copolymers containing aldehyde groups therein as photoinitiators. 3,450,615, 6-17-69, Cl. 204-159.15
Eldred, Roger J.; and Mao, Tzu Jen, to General Motors Corporation. Method of forming acrylic resin surface coatings. 3,473,949, 10-21-69, Cl. 117-62.2
Eldredge, Gladys C., 1/3 each to Eldredge, Glenn S. Eldredge, Vernon D., and Eldredge, Joseph U. Applicator for hair tinting liquids and the like. 3,477,447, 11-11-69, Cl. 132-9.
Eldredge, Glenn S.: *See—*
Eldredge, Gladys C., 3,477,447.
Eldredge, Joseph U.: *See—*
Eldredge, Gladys C., 3,477,447.
Eldredge, Vernon D.: *See—*
Eldredge, Gladys C., 3,477,447.
Eldridge, Arthur H., to Thiokol Chemical Corporation. Pulse insertion means for elimination of servo error due to pulse drop-out. 3,463,982, 8-26-69, Cl. 318-18.
Eldridge, Clare Wallace; Jones, James Dorroh; and Trunk, Junior George, to Celanese Corporation. Twist retention yarn guide and method of uptwisting yarn. 3,449,900, 6-17-69, Cl. 57-59.
Eldridge, Clare W.; Long, Charles W.; and Gamble, Robert O., to Celanese Corporation. Method and apparatus for producing intermittent bulked and saponified yarn. 3,457,715, 7-29-69, Cl. 57-6.
Eldridge, David G.: *See—*
Hayner, Paul F.; and Eldridge, David G.,3,479,925.
Eldridge, Edward L., to Thomas & Betts Co., The. Corona cap. 3,458,646, 7-29-69, Cl. 174-73.
Eldridge, Lewis E.: *See—*
Wright, Vernon D.; and Eldridge, Lewis E.,3,450,315.
Eldridge, Lillian E.: *See—*
Wright, Vernon D.; and Eldridge, Lewis E.,3,450,315.
Electra Scientific Corporation: *See—*
McGunigle, Richard Donald, 3,453,457.
Electra Totalisators Pty. Limited: *See—*
Wells, Roy Ernest, 3,461,278.
Electran Manufacturing Company: *See—*
Snyder, Robert Raymond, 3,436,697.
Walters, Joseph R., 3,436,692.
Electric & Musical Industries Limited: *See—*
Batchelor Michael; and Paine, Donald William Harley, 3,440,361.
Birt, David Edward; Gibson, Anthony Thomas; Holden, Peter John; and Webley, Reginald Sidney, 3,439,109.
Birt, David Edward; Sivyer, Raymond Frank; and Webley, Reginald Sidney, 3,460,105.
Bull, Eric William, 3,466,580.
Bull, Eric William; and Sampeys, Alfred Marcos, 3,466,586.
Kreuchen, Karl Heinz Robert Christian; and Dixon, Norman Edward, 3,449,617.
Kreuchen, Karl Heinz Robert Christian, 3,476,967.
Kreuchen, Karl Heinz Robert Christian, 3,484,642.
Mayo, Bernard Joseph; and Lodge, James Alec, 3,449,624.
Percival, William Spencer, 3,449,557.
Perkins, Denis Gordon, 3,471,637.
Rand, Walter Leslie; Hutton, Henry James; Toull, William Herbert; and Zouch, Leslie Eric, 3,481,111.
Sivyer, Raymond Frank, 3,467,950.
Stillwell, Peter Frederic Thomas Cryer; Montgomery, Peter Murdo; and Hogg, Richard William, 3,432,854.
Taylor, Stanley, 3,445,589.
Electric Associates Inc.: *See—*
Kedson, Leonard, 3,436,667.
Electric Furnace Company, The: *See—*
Perrine, Ralph J.; and Mathews, Frank Robert, 3,447,745.
Electric Machinery Mfg. Company: *See—*
Sauby, Wesley O., 3,444,411.
Schlicher, David W., 3,435,340.
Schlicher, David W.; and Rohner, Thomas G., 3,463,987.
Smith, Forest D.; and Alcock, Derrick N., 3,463,998.
Electric Materials Company, The: *See—*
Smith, Lafayette B., 3,460,369.
Electric Products, Inc.: *See—*
Magill, Malcolm E.; and Slobbe, Walter Wentworth, 3,473,942.
Electric Reduction Company of Canada Ltd.: *See—*
Coates, Harold; Brown, David Albert; and Peters, Francis Michael, 3,429,851.
Colman, John E., 3,441,495.
Colman, John E., 3,451,914.
Edwards, Robert Harry, 3,423,170.
Edwards, Robert Harry; and Biggar, Gordon McLaren, 3,432,259.
Such, John Edward; and Palgrave, Derek Aubrey, 3,421,847.
Weed, John W. S., 3,451,906.
Electric Regulator Corporation: *See—*
Ettinger, James P., 3,421,070.
Ettinger, James P.; and Otteson, Christian S., 3,483,433.
Electric Shop Developments Limited: *See—*
Robinson, William Lovell, 3,482,110.
Electric Stapler Corporation: *See—*
Doherty, Norman R., 3,469,122.
Doherty, Norman R., 3,482,754.
Electrical & Mechanical Service Co.: *See—*
Gilewski, Joseph F.; and Teter, Ray E., 3,437,190.
Gilewski, Joseph F., 3,474,800.
Electrical Fittings Corporation: *See—*
Gohs, Howard C., 3,453,672.
Gohs, Howard C., 3,482,857.
Goldsobel, Norman; and Eidelberg, Jonah, 3,454,291.
Electricite de France (Service National): *See—*
Dubois, Andre; and Sadoune, Joseph, 3,487,256.
Fabre, Jean; and Millet, Jacques F., 3,432,693.
Laurent, Pierre Gabriel, 3,445,747.
Rabanit, Andre, 3,457,492.
Wack, Bernard Francois, 3,428,806.
Electricity Council, The: *See—*
Hampton, Brian Frank, 3,456,614.
Electro Connective Systems, Inc.: *See—*
Travis, Lawrence R., 3,473,218.
Travis, Lawrence R., 3,474,188.
Electro Development Corporation: *See—*
Dybvad, Richard L.; and Johansen, Philip J., 3,486,371.
Farr, Emory W., 3,464,259.
Johansen, Philip J., 3,454,739.
Strauss, Bruno; and Banks, Robert B., 3,454,869.
Strauss, Bruno, 3,464,044.
Electro G.m.b.H.: *See—*
Wesch, Ludwig; and Fromme, Hartmut, 3,440,655.
Electro Medical Systems, Inc.: *See—*
Spurlock, Jack M.; and Durfee, Robert L., 3,453,967.
Electro Oceanics, Inc.: *See—*
Gimpel, Donald J.; and Nelson, Arthur L., 3,478,297.
Nelson, Arthur L., 3,478,298.
Electro Optics Associates: *See—*
Met, Viktor, 3,478,608.
Electro-Catheter Corporation: *See—*
Ackerman, Bernard, 3,485,247.
Electro-Char Corporation: *See—*
Berger, Victor M.; and Scherer, Sidney A., 3,447,444.
Electro-Clamp Corporation: *See—*
Beaudion, John E., 3,437,979.
Lawlor, Robert E., 3,477,060.
Electro-Craft Corporation: *See—*
Persson, Erland K., 3,436,573.
Electro-Dynamics, Inc.: *See—*
Hanneman, Robert Gorden; Gordon, Mack; and Gregor, Harry, 3,427,978.
Electro-Matic Corporation: *See—*
Cureton, Francis M.; and McManus, Jackson L., 3,449,899.
Electro-Mechanical Instrument Company, Inc.: *See—*
Bartholomew, Albert P., Jr., 3,422,353.
Electro-Mechanics Company, The: *See—*
Morris, Fred J.; Roberts, George F.; and Waters, Robert L., 3,461,387.
Electro-Mechanisms, Inc.: *See—*
Tally, Sidney K.; Dahlgren, Victor F.; and Stearns, Thomas H., 3,433,888.

Electro-Nite Co.: *See—*
Lowdermilk, Marvin J., 3,427,208.
Electro-Nuclear Laboratories, Inc.: *See—*
Chow, Ken Tang, 3,472,711.
Electro-Optical Industries, Inc.: *See—*
Cussen, Arthur J., 3,476,914.
Cussen, Arthur J., 3,487,217.
Cussen, Arthur John; and Chandos, Robert Eugene, 3,474,249.
Electro-Optical Systems, Inc.: *See—*
Cann, Gordon L., 3,452,249.
Gallagher, Lee R.; and Lenn, Peter D., 3,447,030.
Garasi, Louis; Kaye, Stephen; and Medved, David B., 3,445,660.
Griffin, Gordon R.; and Meyer, Herbert, 3,446,561.
Hasselmann, Detlev E.; Tellkamp, Robert G.; and Hetherington, Gary L., 3,437,568.
Kaye, Stephen, 3,443,102.
Kazan, Benjamin; and Winslow, John S., 3,441,736.
Medved, David B.; and Garasi, Louis A., 3,445,926.
Okaya, Akira; and Kearns, William J., 3,427,564.
Okaya, Akira; and de Witte, Serge, 3,437,950.
Pichel, Marlowe A., 3,428,533.
Ziemer, Richard W.; and Denison, Mathew R., 3,459,205.
Electro-Tec Corporation: *See—*
Klein, Dietrich J., 3,480,748.
Mashburn, William H., 3,448,312.
Electro-Therm, Inc.: *See—*
Burger, Nicholas J., 3,452,183.
Burger, Nicholas J., 3,466,427.
Kefauver, Lester R., Jr., 3,466,426.
Meng, Eberhard; and Meyer, Howard Eugene, 3,443,064.
Meyer, Howard E., 3,439,892.
Electro-Trace Corporation: *See—*
Kahn, Walter C., 3,446,909.
Electro-Voice, Incorporated: *See—*
Diamond, Howard, 3,427,410.
Mosier, Harold F., Jr., 3,434,205.
Tomcik, Daniel J., 3,429,976.
Electroacustic G.m.b.H.: *See—*
Drenkelfort, Hans; and Thieme, Siegfried, 3,440,598.
Maass, Gustav, 3,451,038.
Electrochimica Corporation: *See—*
Cherney, Seymour; Klein, Martin G.; and Eisenberg, Morris, 3,438,812.
Eisenberg, Morris, 3,468,716.
Electrocopy Corporation: *See—*
Anthes, Jacob, 3,459,477.
Electroglas Incorporated: *See—*
Glenn, David A., 3,437,929.
Electrographic Corporation: *See—*
Grandinetti, Attilio; Curd, Ralph B.; and Dimen, James, 3,424,635.
Grandinetti, Attilio, 3,484,326.
Nard, Wallace D., 3,425,347.
Electrohome Limited: *See—*
Buhr, Jacob, 3,448,386.
Buhr, Jacob, 3,467,868.
Buhr, Jacob, 3,467,873.
Fichtner, Roland H., 3,460,048.
Lovely, John D., 3,463,875.
McElro, Russell A., 3,467,452.
McTaggart, James E., 3,426,149.
McTaggart, James E., 3,430,068.
McTaggart, James E., 3,459,965.
Electrolux Corporation: *See—*
Brown, Robert J.; and Moughty, John J., 3,456,280.
Downey, David F., 3,421,298.
Downey, David F., 3,470,521.
Gaudry, Edouard, 3,469,470.
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, 3,469,272.
Electrolytic Zinc Company of Australia Limited: *See—*
Pickering, Ralph W.; and Pidgeon, John S., 3,440,155.
Electromagnets Limited: *See—*
Turnock, Arthur George, 3,438,495.
Electrometre S.A.: *See—*
Nyfeler, Alex, 3,444,489.
Nyfeler, Alex, 3,454,910.
Spalti, Alfred, 3,445,814.
Electrometric Incorporated: *See—*
Nielsen, Howard A., Jr.; Bice, James W.; and Smith, Chester A., Jr., 3,473,386.
Electromite Corporation: *See—*
Orsino, Joseph A., 3,481,791.
Electron Ohio, Inc.: *See—*
Riggs, Dean D., 3,425,047.
Electronic Associates Inc.: *See—*
Conger, Ben D., 3,476,924.
Furman, Arthur R.; Greene, Harold R.; and Wilhelm, Frederick A., Jr., 3,483,530.
Green, Harold R., 3,444,518.
Greene, Harold R., 3,461,321.
Klaiber, Gerhart; and Maps, Charles H., Jr., 3,450,849.
Natalis, Herbert E.; and Grady, Laurence B., 3,483,449.
Noronha, Leonardo Gastao; and Watling, Norman Derick, 3,443,078.
Schmidt, Raymond A.; Wilhelm, Frederick A., Jr.; and Kayle, William W., 3,434,111.
Tempel, George F., 3,440,632.
Tonnesson, Alfred G., 3,453,421.
Uthe, Paul Michael, 3,457,404.
Wilhelm, Frederick A., Jr., 3,437,801.
Wilhelm, Frederick A., Jr., 3,454,310.
Electronic Communications, Inc.: *See—*
Brounley, Richard W.; and Downs, Neville L., 3,458,834.
Lugten, Leo K., 3,423,709.
Reese, John S., 3,461,377.
Electronic Devices, Inc.: *See—*
Urba, Richard J.; and Semrai, Edward D., 3,454,841.
Electronic Engineering Company of California: *See—*
Greene, George B., 3,485,258.
Paulson, Kendall G., 3,440,722.
Paulson, Kendall G., 3,441,805.
Saba, A., 3,445,919.
Saba, Saba A., 3,448,512.
Electronic Enterprises, Inc.: *See—*
Frieling, Edward, 3,469,262.
Electronic Industrial Engineering, Inc.: *See—*
Thompson, John R., 3,428,815.
Electronic Instrument Co.: *See—*
Hughes, Leonard A., 3,449,081.
Electronic Memories, Inc.: *See—*
Gilligan, Thomas J.; and Nozaki, Arthur T., 3,466,633.
Electronic Organ Arts, Inc.: *See—*
Eby, Robert L., 3,459,869.
Electronic Research Corporation: *See—*
Ledeen, Edward A., 3,439,087.
Stephens, Kenneth D., Jr., 3,485,944.
Electronic Safety Controls Inc.: *See—*
Kraus, Arthur A., Sr., 3,441,801.
Electronic Sensing Products, Inc.: *See—*
Penland, Robert S., 3,471,773.
Electronic Specialty Company: *See—*
Goulding, Merrill Keith, 3,439,550.
Raffin, Joseph, 3,475,166.
Electronic Systems Development, Inc.: *See—*
Sherwin, Richard N., 3,477,782.
Electronics & Alloys, Inc.: *See—*
Intrater, Josef; and Hill, Lawrence R., 3,468,722.
Electronics Corporation of America: *See—*
Giuffrida, Philip, 3,433,572.
Lewis, Robert E., 3,434,099.
Electronics Research, Inc.: *See—*
Bogner, Richard D., 3,474,452.
Electrosonics International, Inc.: *See—*
Hopengarten, Albert, 3,480,863.
Electrospace Corporation: *See—*
Waly, Adnan; Just, Richard; Schwartzman, Leonard; and Alster, David I., 3,426,197.
Electrothermal Engineering Limited: *See—*
Toomey, George William, 3,451,205.
Electrovert Manufacturing Co. Ltd.: *See—*
Roczey-Koller, Kalman, 3,430,332.
Elekal: *See—*
Sambeth, Joerg; and Archipoff, Alexis, 3,432,448.
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre, 3,451,953.
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre, 3,451,954.
Elektriska Svetsningsaktiebolaget: *See—*
Christensen, Frede; Henningsen, Christian Johannes; Larsson, Bernt Arne Rudolf; Knipstrom, Karl-Erik; and Skarpengland, Bjorn Frost, 3,427,527.
Helin, Elis Erik Vilhelm; and Lagerholm, Yngve Lennart, 3,428,718.
Henriksen, Jan-Erik; and Bjorkum, Svein, 3,433,882.
Hillert, Lars Hilding, 3,447,959.
Hillert, Lars Hilding, 3,452,419.
Hillert, Lars Hilding, 3,468,999.
Hillert, Lars Hilding, 3,472,686.
Wehlin, Egon Gote Alf, 3,426,169.
Elektro-Apparatebau F. Knobel & Co.: *See—*
Knobe-Dubs, Fritz, 3,458,757.
Elektro-Praga Hlinsko: *See—*
Kapr, Jiri; and Lachman, Stanislav, 3,486,256.
Elektro-Thermit G.m.b.H.: *See—*
Guntermann, Hans, 3,421,570.
Guntermann, Hans, 3,427,758.
Elektrochemische Werke Munchen A. G.: *See—*
Ruchardt, Christoph Johannes, 3,435,060.
Winter, Heinz; and Brossmann, Gottfried, 3,462,370.

Elektrokemisk A/S: *See—*
Haavik, Niles Johan; and Nyberg, Gunnar, 3,437,733.
Elektrokemisk, Inc.: *See—*
Dahl, Erik Qvale, 3,443,923.
Elektromedizin und Respirator AG: *See—*
Herzog, Paul, 3,425,262.
Elektroschmelzwerk Kempten G.m.b.H.: *See—*
Lipp, Alfred, 3,443,935.
Wiebke, Gunther; and Lipp, Alfred, 3,473,972.
Elemelt Limited: *See—*
Gell, Philip Anthony Maunsell; and Waterworth, Thomas Hugall, 3,440,321.
Elenbogen, Gilbert D.; and Clovis, Merle A., to Vitamins, Inc. Edible oil supplement for feed ration. 3,438,782, 4-15-69, Cl. 99-2.
Elenburg, Wayland D. Drilling apparatus. 3,439,757, 4-22-69, Cl. 175-325.
Elenburg, Wayland D. Method and apparatus for drilling and coring. 3,473,617, 10-21-69, Cl. 175-215.
Elengo, John J., Jr., to Revere Corporation of America. Load cell. 3,422,671, 1-21-69, Cl. 73-141.
Elerath, Byron E.: *See—*
Ludwig, Warren B.; Elerath, Byron E.; and Ewald, John F., Jr.,3,443,324.
Elerath, Byron Everett, to General Foods Corporation. Method of freeze-drying coffee. 3,443,962, 5-13-69, Cl. 99-71.
Elescope Corporation: *See—*
Carlbom, Marshall B., 3,447,635.
Elesh, Joseph. Golf-driving brush mat. 3,467,391, 9-16-69, Cl. 273-195.
Elevator Equipment Company: *See—*
Blain, Roy W., 3,474,811.
Elevitch, Franklin R. Thin film apparatus for electrophoresis chemical and biochemical analyses and the like. 3,479,265, 11-18-69, Cl. 204-180.
Elfant, Robert F., to International Business Machines Corporation. Memory system. 3,432,812, 3-11-69, Cl. 340-172.5
Elfers, Henry, to Lumoprint Zindler KG. Electric time switch. 3,469,108, 9-23-69, Cl. 307-141.
Elftmann, Joel A., to Fluoroware, Inc. Article supporting basket. 3,473,670, 10-21-69, Cl. 211-41.
Elgar, Everett C.: *See—*
Gaensbauer, Herbert A.; and Elgar, Everett C.,3,436,579.
Elgeet Optical Company, Inc.: *See—*
Santirocco, Louis J.; and Ritter, Joachim A., 3,434,777.
Elgin, Joseph C., to U.S. Rubber Reclaiming Co., Inc. Molding compositions containing nylon and rubber from scrap tire cord material. 3,468,974, 9-23-69, Cl. 260-857.
Eli Lilly, and Company: *See—*
Flynn, Edwin H., 3,459,746.
Gorman, Marvin; and Morin, Robert B., 3,459,853.
Van Heyningen, Earle M.; Ryan, Charles W.; and Spencer, John L., 3,459,749.
Elia, Armondo D.; and Schmidt, Richard F., to United States of America, National Aeronautics and Space Administration. Monopulse system with an electronic scanner. 3,438,044, 4-8-69, Cl. 343-854.
Elias, Enrique. Ejectable window for a passenger vehicle. 3,442,048, 5-6-69, Cl. 49-141.
Elias, Jiri: *See—*
Boucek, Miroslav; Pospisil, Frantisek; Elias, Jiri; Tyl, Miloslav; and Mikulecky, Karel,3,462,936.
Melkonjan, Gagik; Mikaeljan, Spartak; Elias, Jiri; Tyl, Miloslav; and Musil, Petr,3,452,209.
Pospisil, Frantisek; and Elias, Jiri,3,429,514.
Pospisil, Frantisek; and Elias, Jiri,3,433,433.
Eliason, Walter A.: *See—*
Breitenstein, Charles T.; Pearl, Donald C.; and Eliason, Walter A.,3,429,253.
Eliassen, Gunnar Thure, to Aktiebolaget Electrolux. Conveyor system. 3,424,320, 1-28-69, Cl. 214-11.
Eliasson, August Borje. Shutting valve for fluids, in particular to be used for bomb shelters. 3,473,560, 10-21-69, Cl. 137-517.
Eliasz, Louise J. Cigarette. 3,455,308, 7-15-69, Cl. 131-10.5
Eliel, Leon T. Portable hoist for luggage and the like. 3,450,386, 6-17-69, Cl. 254-139.1
Elinson, Isaak Markovich: *See—*
Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich,3,459,311.
Elion, Herbert A.: *See—*
Stetson, Karl A.; and Elion, Herbert A.,3,434,339.
Eliot, Warner Ayres: *See—*
Cannon, John Berkman, Jr.; and Eliot, Warner Ayres,3,454,786.
Elitex, Sdruzeni podniku textilniho strojirenstvi: *See—*
Cvach, Jaroslav, 3,429,146.
Elitex, Zavody textilniho strojirenstvi: *See—*
Rambousek, Zdenek; Svaty, Vladimir; and Taticek, Lubomir, 3,424,206.
Riha, Miloslav; Cernocky, Jiri; and Zgarba, Milan, 3,451,435.
Riha, Miloslav; Cernocky, Jiri; and Martinec, Josef, 3,482,608.
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri, 3,429,344.
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri, 3,433,271.
Svaty, Vladimir; Rambousek, Zdenek; and Nadvornik, Josef, 3,435,854.
Elitex, Zavody textilniho strojirenstvi generalni reditelstvi: *See—*
Bartosek, Vladimir; and Hanousek, Alois, 3,454,248.
Jindrich, Emil; and Bajer, Frantisek, 3,426,709.
Jindrich, Emil; and Bajer, Frantisek, 3,428,006.
Elizer, Lee H., to Hubinger Company, The. Alkaline earth metal salts of starch- sultone reaction products and processes preparation thereof. 3,449,322, 6-10-69, Cl. 260-233.3
Elk Industries Ltd.: *See—*
Marshall, Ernest S., 3,482,393.
Elkhart Bridge and Iron Company, Inc.: *See—*
Campbell, William J. M., 3,481,623.
Campbell, William J. M., 3,481,643.
Mazerolle, Lorn A., 3,481,652.
Elkin, Samuel; and Shapiro, Warren B., to United States of America, Health, Education, and Welfare, mesne. 7, 10-Ethano-1-thia-4, 7-diazaspiro [4.5]decane. 3,463,782, 8-26-69, Cl. 260-293.4
Elkind, Vincent Theodore; Yurko, Joseph Aloyus; and Hunter, Robert Tweedy, to Colgate-Palmolive Company. Method for rendering fibrous material oil and water repellent. 3,476,583, 11-4-69, Cl. 117-63.
Elkington, Aubrey H.; and Rekow, Oliver B.Child's play pen and sandbox device. 3,454,272, 7-8-69, Cl. 272-1.
Elkjaer, Hans P., to Smidth, F. L., & Co. System and method of producing cement clinker. 3,473,794, 10-21-69, Cl. 263-32.
Ell, Fredrick James; and Klisowsky, Micheal. Gear and rack tool holder. 3,422,960, 1-21-69, Cl. 211-60.
Ellcon-National, Inc.: *See—*
Mersereau, Everard C., 3,442,358.
Roselius, Charles F.; Pelikan, George A.; and Maggio, Albert C., 3,472,124.
Elleboudt, Walter J. Channel assembly for flexible tubing, conductors, and the like. 3,432,128, 3-11-69, Cl. 248-68.
Elledge, Kermit: *See—*
Andrs, Jerry Frank; and Elledge, Kermit,3,470,729.
Ellefson, Herbert B. Method of making stained glass windows and resultant thereof. 3,420,730, 1-7-69, Cl. 161-38.
Ellegast, Konrad; and Reinecke, Gerd, to Farbenfabriken Bayer Aktiengesellschaft. Catalysis of the active hydrogen-isocyanate reaction. 3,422,036, 1-14-69, Cl. 260-2.5
Ellege, Weldon B.: *See—*
Lill, Melvin H.; and Ellege, Weldon B.,3,461,618.
Ellenberger & Poensgen GmbH, Firma: *See—*
Ellenberger, Jakob, 3,431,517.
Ellenberger, Jakob, 3,432,782.
Ellenberger, Jakob, 3,451,016.
Ellenberger, Jakob, 3,456,225.
Ellenberger, Jakob, 3,466,449.
Ellenberger, Howard A. Seat or bed support. 3,456,912, 7-22-69, Cl. 248-424.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH, Firma. Terminal board with plug-in type pushbutton-controlled circuit breakers. 3,431,517, 3-4-69, Cl. 335-35.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH, Firma. Pushbutton-controlled overload circuit breaker. 3,432,782, 3-11-69, Cl. 335-170.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH, Firma. Pushbutton-actuated overload circuit breaker. 3,451,016, 6-17-69, Cl. 335-23.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH, Firma. Pushbutton actuated overload circuit breaker. 3,456,225, 7-15-69, Cl. 337-75.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH, Firma. Thermal relay with a heated bimetal element and a temperature compensating bimetal strip. 3,466,449, 9-9-69, Cl. 250-215.
Ellenbogen, Leon: *See—*
Highley, Derek Rowland; and Ellenbogen, Leon,3,434,927.
Ellenburg, George W., to Westinghouse Electric Corporation. Joint structure for use in large casings or the like. 3,469,865, 9-30-69, Cl. 285-330.
Ellenburg, John E.: *See—*
Simpson, Heyward V.; Burnett, Reginald; and Ellenburg, John E.,3,484,283.
Eller, Harold E.; and Dreckmann, Hubert, to Hays Corporation, The. Fluid bridge method and means of detecting gases having magnetic susceptibility. 3,471,776, 10-7-69, Cl. 324-36.
Eller, Joe C.; and Person, John T., to Olin Mathieson Chemical Corporation. Method of manufacture of sulfur formulations. 3,461,080, 8-12-69, Cl. 252-363.5
Eller, Phillip E.: *See—*
Carlson, Donald W.; and Eller, Phillip E.,3,423,819.
Carlson, Donald W.; and Eller, Phillip E.,3,468,020.
Ellerbrook, Harry L.; and Morgana, Morley, to Gramor Chemicals, Inc. Process for the manufacture of C- nitrosoarylamines. 3,429,924, 2-25-69, Cl. 260-576.

Ellermeyer, Walter, to United States of America, Navy. Fast acting electronic filter. 3,474,349, 10-21-69, Cl. 330-99.
Ellert, Charles A. High voltage reducing circuit using low voltage silicon controlled rectifier. 3,454,865, 7-8-69, Cl. 323-22.
Ellert, Henry George; and Mattox, William Judson, to Esso Research and Engineering Company. Molecular sieve catalyst. 3,437,587, 4-8-69, Cl. 208-120.
Ellert, Henry George: *See—*
Kimberlin, Charles Newton, Jr.; Ellert, Henry George; and Oldweiler, Morey E.,3,459,655.
Moritz, Karsten Herbert; Pine, Lloyd Albert; and Ellert, Henry George,3,442,877.
Pine, Lloyd Albert; Ellert, Henry George; and Drushel, Harry Vernon,3,442,935.
Pine, Lloyd Albert; Moritz, Karsten Herbert; and Ellert, Henry George,3,484,421.
Ellestad, George Alfred: *See—*
Patterson, Ernest Leonard; Whaley, Howard Arnold; and Ellestad, George Alfred,3,452,051.
Ellicott Machine Corporation: *See—*
Von Bolhar, Edgar J., 3,476,498.
Elligott Enterprises: *See—*
Watts, James B., 3,422,835.
Ellin, Nils A., to E-Z Clasp Inc. Ready-made necktie form. 3,426,361, 2-11-69, Cl. 2-153.
Ellingen, Karl, to Klockner-Humboldt-Deutz Aktiengesellschaft. Electrofilter with corrugated sheet metal- type collecting electrodes. 3,482,375, 12-9-69, Cl. 55-151.
Ellinger, John Henry, to Rolls-Royce Limited. Gear transmission. 3,467,198, 9-16-69, Cl. 170-160.48
Ellinger, John H., to Rolls-Royce Limited. Fan. 3,472,321, 10-14-69, Cl. 170-160.48
Ellinger, Paul B.; and Kuno, Hiromu John, to National Cash Register Company, The. High speed thin film memory. 3,461,431, 8-12-69, Cl. 340-172.5
Ellington, Eugene E., to Continental Oil Company. Method apparatus of heating spent adsorber beds. 3,436,839, 4-8-69, Cl. 34-80.
Ellington, John Peter, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,431,169, 3-4-69, Cl. 176-68.
Elliot, Howard A., to Essex International, Inc. Construction for a panel lamp socket assembly. 3,462,728, 8-19-69, Cl. 339-128.
Elliot Laboratories Inc.: *See—*
Ericson, Richard E., 3,478,743.
Elliot, Neil C., to Monsanto Company. Container and lid. 3,447,714, 6-3-69, Cl. 220-97.
Elliot, Neil C., to Monsanto Company. Container. 3,452,896, 7-1-69, Cl. 220-60.
Elliott, Allen W., Jr., to General Electric Company. Automatic additive dispenser. 3,466,900, 9-16-69, Cl. 68-17.
Elliott Associated Developments Limited: *See—*
Elliott, Herbert James, 3,476,441.
Elliott, Brian: *See—*
Davies, William G.; Elliott, Brian; and Kendrick, Thomas C.,3,481,898.
Elliott Brothers (London) Limited: *See—*
Atkin, Roy, 3,451,275.
Barltrop, Richard Kenneth, 3,452,645.
Barltrop, Richard Kenneth, 3,462,660.
Boulter, Brian Alfred; and Dwyer, Barry, 3,469,247.
Carter, Ivor John; and Jelley, Robert J., 3,474,669.
Chesmond, Colin J., 3,474,407.
Colwell, Arthur John; Watson, Ian Alexander; and Penney, John Harper Malcolm, 3,425,649.
Cowan, Claude Isaac, 3,425,054.
Dines, Charles E., 3,481,538.
Ellis, Stafford M., 3,434,387.
Ellis, Stafford Malcolm, 3,425,286.
Ellis, Stafford Malcolm, 3,472,084.
Gemmell, Douglas B., 3,433,125.
Jablonski, Jan, 3,477,027.
Jablonski, Jan, 3,481,199.
Linkens, Derek Arthur; and Talbot, George C. A., 3,438,013.
Paradine, Christopher, 3,441,746.
Priestley, Eric, 3,436,035.
Priestley, Eric, 3,469,550.
Sleight, George R.; and Whitehouse, Michael I., 3,435,674.
Sleight, George R., 3,455,160.
Winn, Roger F. E., 3,473,048.
Wood, Francis H., 3,452,349.
Wood, Francis Harold, 3,430,605.
Elliott Brothers(London)Limited: *See—*
Knight, Peter Michael, 3,450,899.
Elliott, Carl Wayne; and McNeil, James J., to General Motors Corporation. Automatic transfer mechanism for upsetter. 3,421,357, 1-14-69, Cl. 72-405.
Elliott, Charles H.: *See—*
Cullen, Roy H.; and Elliott, Charles H.,3,481,549.
Cullen, Roy H.; Elliott, Charles H.; Aker, Jimmie R.; and Burke, William E.,3,446,297.
Elliott, Curtis H., Jr., to Grace, W. R., & Co. Process for the purification of molecular sieves. 3,463,608, 8-26-69, Cl. 23-112.
Elliott, Daniel R., to Uniroyal, Inc. Magnetic thickness measuring apparatus utilizing one fixed and one movable measuring coil. 3,430,132, 2-25-69, Cl. 324-34.
Elliott, David D.; and Mozer, Forrest S., to United States of America, Air Force, meane. Radioactive sensor for measuring liquid levels. 3,473,021, 10-14-69, Cl. 250-43.5
Elliott, David G.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,291.
Elliott Die & Tool, Inc.: *See—*
Elliott, William T.; and Harris, Kenneth H., 3,420,403.
Elliott, Eric Edward: *See—*
Pack, Leonard Peter Venner; and Elliott, Eric Edward,3,445,599.
Elliott, Eugene R., to American Machine & Foundry Company. Photocontrol enclosure and support. 3,484,537, 12-16-69, Cl. 174-61.
Elliott, George A.; Akin, Jerome E.; and Mac Gregor, Rob R., to Allied Chemical Corporation. Distillation purification of crude synthetic methanol. 3,434,937, 3-25-69, Cl. 203-79.
Elliott, George H.: *See—*
Roman, Leonard F.; and Elliott, George H.,3,437,734.
Elliott, Hartwell A. Submersible chamber for submerged pipelines. 3,466,880, 9-16-69, Cl. 61-63.
Elliott, Herbert James. Pelletisation of fusible substances. 3,457,335, 7-22-69, Cl. 264-13.
Elliott, Herbert James, to Elliott Associated Developments Limited. Transport of sulphur. 3,476,441, 11-4-69, Cl. 302-66.
Elliott, James Carl; and Boyce, John, to FMC Corporation. Aerodynamic separation of smooth, round from rough, irregular objects. 3,443,689, 5-13-69, Cl. 209-139.
Elliott, James E. Wool cleaning and sorting method and apparatus. 3,483,972, 12-16-69, Cl. 209-85.
Elliott, James Franklin; Korzekwa, Samuel M.; and Granberg, Helge O., to General Electric Company. Apparatus for measuring some mechanical properties of a material. 3,453,862, 7-8-69, Cl. 73-12.
Elliott, James Franklin; Korzekwa, Samuel M.; and McArthur, Raymond J., to General Electric Company. Apparatus for measuring some mechanical properties of a material. 3,425,263, 2-4-69, Cl. 73-12.
Elliott, James P., to Fusion Rubbermaid Corporation. Reinforced plywood produce box. 3,435,980, 4-1-69, Cl. 217-69.
Elliott, Lee E.: *See—*
Grubaugh, Robert E.; and Elliott, Lee E.,3,422,439.
Elliott, Leonard Godfrey: *See—*
Clegg, John Brian; and Elliott, Leonard Godfrey,3,445,563.
Elliott, Louis J., to Autosearch, Inc. Steam separator. 3,425,623, 2-4-69, Cl. 237-9.
Elliott, Lynn H., to All Plastics Molding Incorporated. Rotary switch. 3,471,658, 10-7-69, Cl. 200-8.
Elliott, Michael, to National Research Development Corporation. Insecticidal esters of chrysanthemic and pyrethric acids. 3,465,007, 9-2-69, Cl. 260-347.4
Elliott, Michael; and Janes, Norman Frank, to National Research Development Corporation. Preparation of furan-substituted methanols. 3,466,304, 9-9-69, Cl. 260-347.8
Elliott, Mintie P. Dog rattle. 3,468,290, 9-23-69, Cl. 119-29.
Elliott, Neil C., to Monsanto Company. Container Lid. 3,480,177, 11-25-69, Cl. 220-97.
Elliott, Olin S., Jr. Carding machine plate. 3,462,799, 8-26-69, Cl. 19-98.
Elliott, Ralph W., to Phillips Petroleum Company. Modified dynamometer. 3,457,781, 7-29-69, Cl. 73-151.
Elliott, Reginald S.; and Dalton, John Broocks, to Big Boy Products, Inc. Drawbar and ball assembly. 3,473,826, 10-21-69, Cl. 280-422.
Elliott, Richard L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,444,127.
Elliott, Robert E., to FWI, Inc. High pressure valve for reciprocating pumps. 3,474,808, 10-28-69, Cl. 137-543.
Elliott, Ronald E.: *See—*
Charneski, Charles S.; and Elliott, Ronald E.,3,430,883.
Elliott, Sheldon E., to Phillips Petroleum Company. Seismic signal interpretation. 3,430,194, 2-25-69, Cl. 340-15.5
Elliott, Sheldon E.: *See—*
Lindsey, Joe P.; and Elliott, Sheldon E.,3,430,193.
Elliott, Walter C.: *See—*
Van Houtte, James J.; and Elliott, Walter C.,3,451,483.
Elliott, William E. Swinging seesaw gym set. 3,420,522, 1-7-69, Cl. 272-55.
Elliott, William E.; and Huff, James R., to Globe Union, Inc. Silver and copper thiocyanate primary cells. 3,445,290, 5-20-69, Cl. 136-83.
Elliott, William G. Optical communications system for transmitting two-dimensional images. 3,457,416, 7-22-69, Cl. 250-199.
Elliott, William S., to Collins Radio Company. Electronically tuned filter. 3,480,888, 11-25-69, Cl. 333-73.

Elliott, William T.; and Harris, Kenneth H., to Elliott Die & Tool, Inc. Air pressure detection system. 3,420,403, 1-7-69, Cl. 221-1.

Elliotts Liverpool Limited: *See*—
Howells, Francis Thomas, 3,432,049.

Elliotts of Peterborough Limited: *See*—
Smeeth, Edmund L. V., 3,474,580.

Ellipsograph, S.A.: *See*—
Diaz-Esparza, Ismael, 3,447,243.

Ellis, Alan F., to Gulf Research & Development Company. Preparation of hydrocarbon-substituted pyrazines and piperazines from alpha-nitro-ketones. 3,453,278, 7-1-69, Cl. 260-250.

Ellis, Alfred Brian Edwin, to Marconi Company Limited, The. Electrical position resolver employing capacitive probe coupled to resistive layer containing two pairs of conductive strips energized by four different frequency signals. 3,466,391, 9-9-69, Cl. 178-18.

Ellis, Arthur J., to Bruce Berger Limited. Liquid fuel injection pumps. 3,435,770, 4-1-69, Cl. 103-41.

Ellis, Arthur T., Jr., to Heinmann Electric Company. Contact blade assembly for relays. 3,440,584, 4-22-69, Cl. 335-196.

Ellis, Belvin B., to Westinghouse Electric Corporation. Method of making a magnetic core structure for inductive apparatus. 3,451,130, 6-24-69, Cl. 29-605.

Ellis, Belvin B.: *See*—
Burkhardt, Charles E.; and Ellis, Belvin B.,3,477,053.

Ellis, Bernard; Feather, Peter; Mac Bride, Hugh; and Petrow, Vladimir, to British Drug Houses Limited, The. 6-Fluoromethyl-3-oxo-4,6-dienic steroids and process for preparing same. 3,437,657, 4-8-69, Cl. 260-239.55

Ellis, Bernard; Petrow, Vladimir; and Stanway, David Neil, to British Drug Houses Limited, The. 4-Oxo-Δ^5-steroids and enol esters thereof. 3,478,069, 11-11-69, Cl. 260-397.4

Ellis, Charles B., to Lennox Industries Inc. Compressor supporting means. 3,465,954, 9-9-69, Cl. 230-235.

Ellis, Frederick E., to Automotive Products Company Limited. Fluid pressure motors for producing straight- line motion. 3,450,005, 6-17-69, Cl. 91-189.

Ellis, Geoffrey Hender Stuart: *See*—
Pope, Joseph Albert; Lowe, William; and Ellis, Geoffrey Hender Stuart,3,430,508.

Ellis, George L.: *See*—
Olson, Robert James; Ellis, George L.; and Huval, Malcolm,3,450,632.

Ellis, Graham John: *See*—
Pollack, James Richard Allan; Pool, Alan Aldred; and Ellis, Graham John,3,450,600.

Ellis, Howard Dale. Ear stripping mechanism for harvester for sweet corn. 3,473,303, 10-21-69, Cl. 56-17.

Ellis, James Leslie, to Owens-Illinois, Inc. Glass compositions. 3,459,569, 8-5-69, Cl. 106-52.

Ellis, James N., to Lear Siegler, Inc. Permanent magnet generator. 3,444,405, 5-13-69, Cl. 310-156.

Ellis, James P. Two-way wall brace. 3,430,397, 3-4-69, Cl. 52-227.

Ellis, Jarrett R.; and Weidman, William H., to Harris-Intertype Corporation. Shock absorber for rotary printing press cylinders. 3,453,956, 7-8-69, Cl. 101-217.

Ellis, Joe D. Vehicle air conditioner with electrical drive means. 3,475,919, 11-4-69, Cl. 62-228.

Ellis, John D.: *See*—
Austin, James; and Ellis, John D.,3,439,475.

Ellis, John Ernest: *See*—
Carrotte, Frederick H.; and Ellis, John Ernest,3,442,098.

Ellis, John H.; and Miokiff, Valva C., to University of Kentucky Research Foundation, The, mesne. Multiple-unit pipetting assembly and pipette for use therein. 3,444,742, 5-20-69, Cl. 73-425.6

Ellis, John N.: *See*—
Hart, Herbert J.; and Ellis, John N.,3,460,625.

Ellis, John T., to Dow Chemical Company, The. Unitized flooring for wheeled vehicles. 3,420,192, 1-7-69, Cl. 105-422.

Ellis, Jonas; and Hamilton-Fey, John, to International Computers and Tabulators Limited. Paper carriage shifting means in high speed line printers. 3,420,166, 1-7-69, Cl. 101-93.

Ellis, Kenneth A., to Varco-Pruden, Inc., mesne. Elimination of twists and bends from elongated cold roller formed members. 3,456,471, 7-22-69, Cl. 72-177.

Ellis, Leslie M., to Keystone Consolidated Industries, Inc. Record changer holddown latch assembly. 3,460,210, 8-12-69, Cl. 24-211.

Ellis, Linus, du Pont de Nemours, E. I. and Company. 5-Oxo-1,4,2-dioxazines and preparation from α-amidooxy acids. 3,420,824, 1-7-69, Cl. 260-244.

Ellis, Lonnie T. Apparatus with color coded board and chance means. 3,433,483, 3-18-69, Cl. 273-134.

Ellis, Robert Hunter; and Lund, Peter Arvid, to United Engineering and Foundry Company. Flying shear with alternately operative drive motors. 3,438,296, 4-15-69, Cl. 83-299.

Ellis, Roger H., to Raychem Corporation. Heat recoverable article and process. 3,455,336, 7-15-69, Cl. 138-156.

Ellis, Rollo G., to Elox Inc., mesne. Electrode feed and wear compensation mechanism for electrical discharge machining apparatus. 3,462,576, 8-19-69, Cl. 219-69.

Ellis, Sanford: *See*—
Cohn, Robert A.; and Ellis, Sanford,3,425,746.

Ellis, Sheldon G.: *See*—
Harris, Charles P.; and Ellis, Sheldon G.,3,461,672.

Ellis, Stafford Malcolm, to Elliott Brothers (London) Limited. Conversion of angular movements. 3,425,286, 2-4-69, Cl. 74-63.

Ellis, Stafford Malcolm, to Elliott Brothers (London) Limited. Driving of displaceable members. 3,472,084, 10-14-69, Cl. 74-89.

Ellis, Stafford M., to Elliott Brothers (London) Limited. Hydraulic actuators. 3,434,387, 3-25-69, Cl. 91-1.

Ellis, Stancel C.; Hersel, Jorge J.; Johnson, Louis H.; Nelson, Ralph H.; and Yost, Roderick A., to Monsanto Company. Automatic pneumatic color comparator apparatus and process. 3,454,342, 7-8-69, Cl. 356-195.

Ellis, Wally; and Arthur, Elmer W. Aircraft touchdown wheel synchronizer. 3,428,274, 2-18-69, Cl. 244-103.

Ellis, Walter E.: *See*—
Watts, Robert H.; and Ellis, Walter E.,3,455,115.

Ellis, Weldon T., Jr.: *See*—
Knapp Edward M.; and Ellis, Weldon T., Jr.,3,449,213.

Ellis, William H.; and Carlston, Earl F., to Chevron Research Company. Thixotropic, non-sag, one-coat paints containing binary mixtures of oil modified alkyds having different oil lengths. 3,475,360, 10-28-69, Cl. 260-22.

Ellison, Cecil A.: *See*—
Chestochowski, Benjamin A.; Conklin, Edward J.; and Ellison, Cecil A.,3,440,063.

Ellison, Charles V.; and Vondra, Benedict L., to Nuclear Materials and Equipment Corporation. Method of treating carbon containing material. 3,429,671, 2-25-69, Cl. 23-342.

Ellison, Donald E.; and Guffy, Willie E., to Inland Container Corporation. Shipping container. 3,467,297, 9-16-69, Cl. 229-37.

Ellison, Edward A.: *See*—
Pound, James R.; and Ellison, Edward A.,3,463,348.

Ellison, Glen B. Combination conveyor feeder and loader of sheet material. 3,485,488, 12-23-69, Cl. 271-3.

Ellison, Hal J., to Silaco Chemical Company. Ultra-violet irradiated silver fluoride compositions and biocide uses thereof. 3,422,183, 1-14-69, Cl. 424-28.

Ellison, Joseph E., to Standard Screw Company. Bezel cap. 3,430,377, 3-4-69, Cl. 40-332.

Ellison, Joseph E., to Standard Screw Company. Water faucet silencing means. 3,473,562, 10-21-69, Cl. 137-549.

Ellison, Joseph E.: *See*—
Mongerson, Paul A.; and Ellison, Joseph E.,3,443,266.

Ellison, Ronald E.; and Pritchard, John, to Ellison Tufting Machinery Limited. Tufting machine pattern means using infrared radiation detectors. 3,443,535, 5-13-69, Cl. 112-79.

Ellison, Ronald; Pritchard, John; and Pickles, Norman, to Ellison Tufting Machinery Limited. Tufting machine pattern variation device. 3,459,143, 8-5-69, Cl. 112-79.

Ellison Tufting Machinery Limited: *See*—
Ellison, Ronald; Pritchard, John; and Pickles, Norman, 3,459,143.
Ellison, Ronald E.; and Pritchard, John, 3,443,535.

Ellman, Irving A. Dental dispenser with calcium hydroxide paste. 3,462,840, 8-26-69, Cl. 32-60.

Ellman, Irving A. Shaving implement holder. 3,486,630, 12-30-69, Cl. 211-13.

Ellms, Robert W.: *See*—
Abraham, Edward D.; and Ellms, Robert W.,3,461,947.

Ellner, Edwin, to Stapling Machines Co., mesne. Control panel. 3,435,251, 3-25-69, Cl. 307-115.

Ellner, Hans: *See*—
Ellner, Hans, 3,429,149.

Ellner, Hans, to Ellner, Hans. Apparatus for permeating fibrous materials with liquids. 3,429,149, 2-25-69, Cl. 68-150.

Ellson, Lloyd W.: *See*—
Brown, Philip H.; and Ellson, Lloyd W.,3,477,395.

Ellsworth, Arthur W.; Fujioka, Robert K.; and Uyeda, Tim M., to Samsonite Corporation. Readily assembled and disassembled table. 3,431,871, 3-11-69, Cl. 108-153.

Ellsworth, James P.; and Thomas, Glenn R., to Westinghouse Electric Corporation. Circuit breaker with sealing means at handle-opening. 3,475,710, 10-28-69, Cl. 337-55.

Ellul, Joseph M., to International Business Machines Corporation. Automatic spray painting machine. 3,444,839, 5-20-69, Cl. 118-2.

Ellwanger, Charles G.; Huscher, Howard I.; and Payment, Robert J., to Gleason Works, The. Transfer mechanism with work rotating device. 3,468,435, 9-23-69, Cl. 214-1.

Ellzey, Floyd P. Boat propulsion unit and propeller assembly. 3,428,018, 2-18-69, Cl. 115-35.

Elmeg Elektro Mechanik G.m.b.H.: *See*—
Zielke, Alfred, 3,426,676.

Elmendorf, Armin: *See*—
Elmendorf, Armin; Etzold, Roland; and Vaughan, Thomas W., 3,457,094.

Elmendorf, Armin. Method of filling open defects in veneer. 3,478,791, 11-18-69, Cl. 144-310.

Elmendorf, Armin. Orienting wood strands. 3,478,861, 11-18-69, Cl. 198-33.

Elmendorf, Armin; Etzold, Roland; and Vaughan, Thomas W., to Elmendorf, Armin. Method of upgrading low grade plywood. 3,457,094, 7-22-69, Cl. 117-2.

Elmendorp, Jan: *See—*
de Rooij, Abraham H.; and Elmendorp, Jan,3,446,583.

Elmer, Arthur Ernest Henry, to Dynair Limited. Temperature fluid control valves. 3,436,017, 4-1-69, Cl. 236-92.

Elmer, Arthur Ernest Henry, to Dynair Limited. Flexible torsion couplings. 3,446,430, 5-27-69, Cl. 230-271.

Elmer, Arthur Ernest Henry, to Dynair Limited. Thermally-responsive control mechanisms. 3,467,071, 9-16-69, Cl. 123-41.12

Elmer, Otto C.; and Duncan, Joe S., to General Tire & Rubber Company, The. Polyurethane materials having biocidal properties and their production. 3,471,423, 10-7-69, Cl. 260-22.

Elmer, Thomas H.: *See—*
Chapman, Ian D.; and Elmer, Thomas H.,3,485,687.

Elmer, Thomas H.; and Nordberg, Martin E., to Corning Glass Works. Method of treating a porous, high silica content glass. 3,459,522, 8-5-69, Cl. 65-30.

Elmer, William B., to Sylvania Electric Products, Inc. Lighting unit. 3,423,582, 1-21-69, Cl. 240-41.37

Elmer, William B., to Dennison Manufacturing Company. Illumination in optical imaging apparatus. 3,428,397, 2-18-69, Cl. 355-11.

Elmer, William B., to Dennison Manufacturing Company. Optical illuminating apparatus. 3,471,231, 10-7-69, Cl. 355-70.

Elmhurst, Richard F.: *See—*
Linardos, Stathis G.; Elmhurst, Richard F.; and Elmhurst, William A.,3,428,824.

Elmhurst, William A.: *See—*
Linardos, Stathis G.; Elmhurst, Richard F.; and Elmhurst, William A.,3,428,824.

Elmo Company Limited: *See—*
Sakai, Fumio; and Aoki, Chihiro, 3,427,100.
Sakaki, Fumio; and Nakamura, Toshimitsu, 3,434,783.
Teshi, Haruo; and Kono, Seki, 3,439,980.

Elmore, Austin E.; and Uhlmann, Ernest A. Closure for a fluid dispensing container having a flexible slitted diaphragm. 3,445,042, 5-20-69, Cl. 222-212.

Elmore, John E. Safety bolt for motor vehicle doors. 3,425,731, 2-4-69, Cl. 292-335.

Elmore, Marshall D., to Beckman Instruments, Inc. Radiation responsive flow control apparatus. 3,458,705, 7-29-69, Cl. 250-218.

Elmore, Raymond D.: *See—*
Burwinkle, Vincent H.; and Elmore, Raymond D.,3,459,162.

Elmore, Rush H., to Laboratory Furniture Company, Inc. Blow out closure construction. 3,440,022, 4-22-69, Cl. 23-292.

Elmquist, Lyle F., to General Mills, Inc. Compounds as textile softeners. 3,442,695, 5-6-69, Cl. 117-139.5

Elmquist, Lyle F.; and Kamal, Marwan R., to General Mills, Inc. Process for rendering cellulosic and fibrous materials oil-water-repellent and product there- from. 3,462,295, 8-19-69, Cl. 117-143.

Elms, Robert T.: *See—*
Engel, Joseph C.; and Elms, Robert T.,3,483,429.

Elnicki, Walter J.: *See—*
Urbas, John C.; and Elnicki, Walter J.,3,462,851.

Eloranta, Vaito K., to Polaroid Corporation. Photographic apparatus. 3,452,661, 7-1-69, Cl. 95-13.

Eloranta, Vaito K.: *See—*
Land, Edwin H.; and Eloranta, Vaito K.,3,479,942.
Land, Edwin H.; and Eloranta, Vaito K.,3,485,155.

Elowc, Louis Nasir: *See—*
Henderson, Norman Leo; and Elowe, Louis Nasir,3,427,378.
Zingerman, Joel Ronald; and Elowe, Louis Nasir,3,431,138.

Elox Corporation: *See—*
Lobur, Walter, 3,473,086.
Sennowitz, Kurt H., 3,472,994.

Elox Inc.: *See—*
Ellis, Rollo G., 3,462,576.
Lobur, Walter, 3,435,176.
Porterfield, Cecil P., 3,485,987.
Sennowitz, Kurt H., 3,439,145.
Sennowitz, Kurt H., 3,485,988.
Sennowitz, Kurt H., 3,485,989.
Sennowitz, Kurt H., 3,485,990.
Shaffer, William B., 3,435,175.
Shaffer, William B., 3,435,177.
Webb, Robert S., 3,437,781.

Eloy, Fernand G. F.; and Van Overstraeten, Andre, to Union Carbide Corporation. Benzooxathiazepines and process therefor. 3,420,849, 1-7-69, Cl. 260-327.

Eloy, Pierre, to Glaverbel S.A. Method and apparatus for manufacturing float glass with internal circulatory bath heat exchange. 3,438,761, 4-15-69, Cl. 65-99.

Elpern, Marlin. Light valve system. 3,447,862, 6-3-69, Cl. 350-269.

Elsas, Norman E.; and Bryan, Thomas M., II, 50% to Nemo Industries, Inc., and 50% to Jefferson Mills Inc., The. Fringe trimming method. 3,460,212, 8-12-69, Cl. 26-10.4

Else, John D.; and Grant, John W., to Fletcher and Stewart Limited. Hydraulically operated mine roof supports. 3,481,573, 12-2-69, Cl. 248-357.

Elsenheimer, Charles W., to Prentice Corporation. Adjustable closure devices. 3,484,907, 12-23-69, Cl. 24-206.

Elsevier, William; and Read, Douglas E., to International Paper Company. Process for pre-treating facing sheets for gypsum boards. 3,463,685, 8-26-69, Cl. 156-44.

Elsken, James C.: *See—*
Nyrop, Per; and Elsken, James C.,3,424,312.

Elslager, Edward Faith; and Worth, Donald Francis, to Parke, Davis & Company. Sulfur-containing anilide compounds and methods for their production. 3,452,059, 6-24-69, Cl. 260-397.6

Elsner, Albrecht: *See—*
Klipping, Gustav; Elsner, Albrecht; and Hildebrandt, Gerd,3,442,091.

Elsner, Bertram F.; and Elsner, Frank, Jr., to Elsner Engineering Works, Inc. Cone head assembly for winding machines. 3,430,887, 3-4-69, Cl. 242-68.2

Elsner, Edwin C., to Aeroquip Corporation. Plain end pipe joint. 3,423,111, 1-21-69, Cl. 285-340.

Elsner, Edwin C., to Aeroquip Corporation. Fluid coupling with deformable holding means. 3,486,772, 12-30-69, Cl. 285-96.

Elsner Engineering Works, Inc.: *See—*
Elsner, Bertram F.; and Elsner, Frank, Jr., 3,430,887.

Elsner, Frank, Jr.: *See—*
Elsner, Bertram F.; and Elsner, Frank, Jr.,3,430,887.

Elsner, Peter, to Siemens Aktiengesellschaft. Switching arrangement for the current feed of an inductive load. 3,439,182, 4-15-69, Cl. 307-104.

Elson, George Wynne; Howe, Ralph; and Jones, Derrick Fleet, to Imperial Chemical Industries Limited. Manufacture of acids and esters. 3,483,083, 12-9-69, Cl. 195-30.

Elste, Edwin S.: *See—*
Shaw, John S.; Dostel, John J.; White, Donald K.; Elste, Edwin S.; Kellogg, John F.; and O'Neale, John D.,3,460,827.

Elstein, Jacob K. Surgical instrument for removal of thin layers. 3,476,112, 11-4-69, Cl. 128-305.

Elster & Co. Aktiengesellschaft: *See—*
Marx, Josef, 3,453,884.

Elster's Air Conditioning:*See—*
Sweet, Albert; and Kaufman, Arnold S., 3,457,850.

Elsworth, James Edward, to Imperial Chemical Industries Limited. Agriculture spraying machines. 3,445,961, 5-27-69, Cl. 47-11.7

Eltgroth, Matthew J., to Zenith Radio Corporation. Spot-burn protection circuit. 3,462,640, 8-19-69, Cl. 315-20.

Eltinge, Lamont: *See—*
Marsee, Frederick J.; and Eltinge, Lamont,3,472,495.

Eltinge, Lamont, to Ethyl Corporation. Engine timing arrangement. 3,431,897, 3-11-69, Cl. 123-117.

Elton, Derek A. L., to Robertson, Loewy, Engineering Company Limited. Pre-stressed rolling mill. 3,438,235, 4-15-69, Cl. 72-240.

Elton, Earl W.; and Smith, Howard W. Cargo transfer between vehicles. 3,443,702, 5-13-69, Cl. 214-38.

Elton Industries Corporation, The: *See—*
Nolte, Albert C., Jr.; and Collard, Allison C., 3,448,434.

Elton Industries, Inc.: *See—*
Seitz, Russell, 3,447,985.
Seitz, Russell, 3,477,037.
Williams, Christopher, 3,456,104.

Elton, Raymond C., to United States of America, Navy. X-ray detector system for determining plasma electron temperature. 3,432,659, 3-11-69, Cl. 250-71.5

Elton, William L.: *See—*
Mattimoe, Paul T.; and Elton, William L.,3,468,749.

Eltop Corporation: *See—*
Rickey, Ronald P., 3,474,296.

Eltra Corporation: *See—*
Carroll, Michael W.; and Perry, Donald S., 3,445,145.
Florio, Sam A.; and Roberts, William J., 3,484,177.
Hansen, Walter, 3,458,253.
Hansen, Walter; and Heidenreich, Karl, 3,469,513.
Hardin, James Theodore; and Lovrenich, Rodger Thomas, 3,473,110.
Vargo, William S., 3,473,325.
Wetzel, William C., 3,462,760.

Eltreva AG, Firma: *See—*
Schmidlin, Hans, 3,460,306.

Eltro G.m.b.H.: *See—*
Wesch, Ludwig; and Beck, Gerhard, 3,427,619.
Wesch, Ludwig; and Ullrich, Kurt, 3,454,947.

Eltschinger, Ernest, to CAFAG Cartonnagenfabrik Freiburg. Packing box. 3,437,255, 4-8-69, Cl. 229-23.

Eltze, Georg, to Daimler-Benz Aktiengesellschaft. Internally toothed gear pump, especially for the pressure medium supply of automatic change-speed transmissions. 3,486,459, 12-30-69, Cl. 103-126.

Eltze, Ulrich: *See—*
Forster, Hans-Joachim M.; and Eltze, Ulrich,3,420,251.

Elving, Philip J.: *See—*
Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L.,3,458,359.
Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L.,3,470,031.
Elvington, John W. Concealed tire puncturing device to impede movement of a vehicle. 3,456,920, 7-22-69, Cl. 256-1.
Elward, John R., to Fibreboard Corporation. Ice cream carton. 3,454,212, 7-8-69, Cl. 229-51.
Elwart, Glenn E. Control for blower motor of furnace and air conditioner. 3,454,078, 7-8-69, Cl. 165-27.
Elwell, Betty D.: *See—*
Szeremy, Norman; Highland, Andrew, Jr.; and Elwell, Charles E.,3,448,429.
Elwell, Charles A.: *See—*
Hansen, John W., 3,453,970.
Elwell, Charles A., to Toy Development Center, Inc., The. Sound reproducer and stereoscope combination. 3,436,083, 4-1-69, Cl. 274-14.
Elwell, Charles E.: *See—*
Szeremy, Norman; Highland, Andrew, Jr.; and Elwell, Charles E.,3,448,429.
Elwell, Maurice W.; Elwell, Steven C.; and Andrews, Harold L. Hole cutting tool. 3,456,747, 7-22-69, Cl. 175-403.
Elwell, Steven C.: *See—*
Elwell, Maurice W.; Elwell, Steven C.; and Andrews, Harold L.,3,456,747.
Elwood Industries, Inc.: *See—*
Pascus, Arnold W.; and Boehm, Edmund, 3,482,760.
Ely, Charles M.: *See—*
MacMillan, Melvin J.; and Ely, Charles M.,3,438,781.
Ely, Donald A., Sr., to Beloit Corporation. Web pick-up for two wire forming paper machine. 3,438,852, 4-15-69, Cl. 162-303.
Ely, Donald A., Sr., to Beloit Corporation. Press arrangement for papermaking machine. 3,477,907, 11-11-69, Cl. 162-358.
Ely, Donald A., to Beloit Corporation. Piston diaphragm combination. 3,434,396, 3-25-69, Cl. 92-36.
Ely, Donald A., to Beloit Corporation. Press arrangement. 3,434,922, 3-25-69, Cl. 162-303.
Ely, Everett E.: *See—*
Smith, Charles C.; and Ely, Everett E.,3,444,027.
Ely, Laurice D. Container type stirrer. 3,428,460, 2-18-69, Cl. 99-77.1
Ely, Laurice D. Illuminated vanity mirror. 3,435,199, 3-25-69, Cl. 240-4.2
Ely, Richard E., to United States of America, Army. Multiaxial stress apparatus. 3,421,366, 1-14-69, Cl. 73-93.
Ely, Richard N. Passenger restraining system. 3,471,197, 10-7-69, Cl. 297-385.
Ely, Robert G., 25% to Brown, Jay 25% to Moseman, Richard 15% to Ross, D. L. 12 1/2% to McGehee, George 12 1/2% to Shirin, John K. 5% to Mattern, Harvey 5% to Zimmerman, Galen. Boom travel limiting device for cranes. 3,456,810, 7-22-69, Cl. 212-39.
Elyashev, Isaak Grigorievich: *See—*
Kazantsev, Boris Afanasievich; Sitro, Igor Nikolaevich; Malyk, Vladimir Avksentievich; and Elyashev, Isaak Grigorievich,3,431,855.
Elyosius, Peter V.; and Pikor, Jerome W., to B & S Tool Company, Inc. Rate of fire computer. 3,422,256, 1-14-69, Cl. 235-92.
Elzas, Abraham Isidore; and Elzas, Abraham Samuel. Heads of drums, banjos, tympani and the like musical instruments. 3,425,309, 2-4-69, Cl. 84-414.
Elzas, Abraham Samuel: *See—*
Elzas, Abraham Isidore; and Elzas, Abraham Samuel,3,425,309.
Elzer, Paul: *See—*
Honig, Hans Ludwig; Muller, Erwin Alfons; Kuhnel, Werner; Kolb, Gunter; and Elzer, Paul,3,445,438.
Ema, Kenji: *See—*
Yamamoto, Kazumi; Iwasa, Mitsuhiro; Ema, Kenji; and Arai, Noboru,3,422,037.
Emanuel, Giovanni; and Zucca, Carlo, to Soc. Acc. Emanuel di G. e R. Emanuel & C. Washing plant for vehicles. 3,432,870, 3-18-69, Cl. 15-21.
Emanuelson, Roy M.; and Cram, Robert D., to High Voltage Engineering Corporation. Electron beam accelerator with shielding means and electron beam interlocked. 3,433,947, 3-18-69, Cl. 250-49.5
Emary, Robert J.: *See—*
Gilford, Saul R.; and Emary, Robert J.,3,458,698.
Embart Corporation: *See—*
Schultz, Robert J., 3,481,348.
Emberson, John E., to Wade International Limited. Drain structure. 3,447,329, 6-3-69, Cl. 61-63.
Emblem, Harold Garton; Hurt, Norman Albert; and Wilkinson, Ernest Malcolm, to Holt Products Limited. Inhibition of corrosion of metals. 3,420,779, 1-7-69, Cl. 252-75.
Embree, Earl P. Portable elevating apparatus. 3,430,734, 3-4-69, Cl. 187-10.
Embree, Milton L.; Haag, Arthur V.; and Vedder, Dietrih, to Bell Telephone Laboratories, Incorporated. Ramp-controlled selection circuit for simultane- ously enabled negative resistance devices. 3,421,030, 1-7-69, Cl. 307-324.
Embree, Milton L.; Hamilton, Billy H.; and Metzler, Clair G., to Bell Telephone Laboratories, Incorporated. Voltage regulator systems employing a multifunctional circuit comprising a field effect transistor constant current source. 3,483,464, 12-9-69, Cl. 323-22.
Embry, Elisama: *See—*
Embry, Raymond S., Jr., 3,434,625.
Embry, Elisama: *See—*
Embry, Raymond S.,3,479,703.
Embry, Louise. Sled convertible into wagon and other devices. 3,429,582, 2-25-69, Cl. 280-7.12
Embry, Raymond S., deceased0 (by Embry, Elisama; administratrix). Snap-on button. 3,479,703, 11-25-69, Cl. 24-107.
Embry, Raymond S., Jr., to Embry, Elisama, mesne. Waste container with detachable funneling collar. 3,434,625, 3-25-69, Cl. 220-65.
Embury, Philip W., Jr.: *See—*
Siri, Louis J.; and Embury, Philip W., Jr.,3,451,026.
Emco Limited: *See—*
Morton, John, 3,464,449.
Emco Wheaton, Inc.: *See—*
Rosell, Lester P., 3,429,448.
Rosell, Lester P., 3,474,827.
Emde, Gunter, to Bolkow Gesellschaft mit beschrankter Haftung. Logical network. 3,482,132, 12-2-69, Cl. 307-210.
Emeis, Reimer; and Weber, Wolfgang, to Siemens Aktiengesellschaft. Method for preparing semiconductor crystals. 3,480,474, 11-25-69, Cl. 117-224.
Emele, Jane F., to Warner-Lambert Pharmaceutical Company. Analgesic compositions containing namol xenyrate, caffeine and acetyl *p*-aminophenol. 3,439,094, 4-15-69, Cl. 424-253.
Emelyanov, Vasily Semenovich: *See—*
Rusanovich, Nikolai Grigorievich; Dmitriev, Ivan Sergeevich; Korobov, Yakov Vasilievich; Volfenzon, Shmul Ovshievich; Kostin, Boris Jurievich; Zaichik, Evegeny Bentsionovich; and Emelyanov, Vasily Semenovich,3,450,376.
Emerald Pacific Enterprises, Inc.: *See—*
Tanguay, Raymond J., 3,433,481.
Emerick, George, to Rolls-Royce Limited, mesne. Gas turbine power plants. 3,465,526, 9-9-69, Cl. 60-269.
Emerson & Cuming, Inc.: *See—*
Alford, Harvey E.; and Veatch, Franklin, 3,458,332.
Copley, John R.; Cuming, William R.; and Rowe, Paul E., 3,425,577.
Emerson, Carl D.: *See—*
Aichenegg, Paul C.; and Emerson, Carl D.,3,428,687.
Aichenegg, Paul C.; Emerson, Carl D.; and Gillen, Lawrence E.,3,428,665.
Emerson, Carl D.; and Aichenegg, Paul C., to Chemagro Corporation. Sulfur containing carboxylic acids. 3,442,941, 5-6-69, Cl. 260-539.
Emerson Electric Co.: *See—*
Arnold, Harold D., 3,433,988.
Arnold, Harold D., 3,437,853.
Boden, Donald W.; and Kruger, Julius F., 3,464,656.
Cuningham, Donald M., 3,483,357.
Dederick, Clinton H., 3,486,050.
Drouillard, William, 3,478,396.
Dundas, Ernest W.; and Walker, Stanley P., 3,436,811.
Durkee, John E.; and Remington, Duncan S., 3,453,390.
Enright, James H.; and Wicke, Charles A., 3,425,637.
Enright, James H., 3,432,108.
Enright, James H.; and Wicke, Charles A., 3,464,638.
Frank, Heinrich H., 3,422,296.
Frank, Heinrich H., 3,427,672.
Harelson, Robert G.; and Flynn, Kenneth L., 3,464,639.
Harris, Robert L., 3,428,842.
Little, Alfred E., 3,458,766.
Luenberger, Frederick O., 3,436,106.
Luenberger, Frederick O.; and Tucker, Charles J., 3,441,762.
Meyer, Elwyn A.; and Brownfield, Charles L., 3,427,923.
Miller, Floyd Y., 3,432,908.
Mueller, Theodore, 3,428,341.
Noveske, Walter J., 3,447,353.
Raso, Vito; and Eisenhart, Arlin C., 3,434,366.
Safran, Paul, 3,430,242.
Visos, Charles D., 3,447,746.
Visos, Charles D., 3,474,962.
Vreeland, Robert M., 3,447,010.
Wallace, John H., 3,477,000.
Watts, Louis A., 3,428,033.
Wightman, Lawrance W., 3,484,934.
Wightman, Lawrence W., 3,462,164.
Wright, James A., 3,434,788.
Emerson, Frank W.: *See—*
Preiser, Ralph H.; Goodwin, Clarence J.; Emerson, Frank W.; and Metcalf, Stanley,3,460,388.

Emerson, John F., to Singer-General Precision, Inc. Acceleration verification control system. 3,456,513, 7-22-69, Cl. 74-5.47
Emerson, John F.: *See—*
Stiles, John C.; and Emerson, John F.,3,453,894.
Emerson, John H. Device for automatically shifting the body of a patient. 3,477,071, 11-11-69, Cl. 5-61.
Emerson, Paul D.; and Carter, Ernest P., to Monsanto Company. Segmented fiber apparatus. 3,461,492, 8-19-69, Cl. 18-8.
Emerson, Paul D.; Engelman, Fred H.; Baggett, Frank A.; and Oatfield, John C., to Monsanto Company. Warp yarn creel for weaving. 3,477,661, 11-11-69, Cl. 242-131.
Emerson, Paul H. Television viewer-participation device. 3,462,852, 8-26-69, Cl. 35-8.
Emerson, Waldo C., to Sperry Rand Corporation. Relative addressing system for memories. 3,461,433, 8-12-69, Cl. 340-172.5
Emerson, William A., to Westinghouse Electric Corporation. Induction heating system. 3,435,172, 3-25-69, Cl. 219-10.75
Emerson, William D., to Scholl Mfg. Co., Inc., The. Bowling shoe cleaner. 3,430,396, 3-4-69, Cl. 51-205.
Emery, A. H., Company: *See—*
Billings, James P., 3,431,422.
Emery, Alvin T.; and Currey, John E., to Hooker Chemical Corporation. Method for stabilizing the position of anodes and anode bus bars in an electrolytic cell. 3,425,929, 2-4-69, Cl. 204-266.
Emery, Alvin T.; and Ruthel, Walter W., to Hooker Chemical Corporation. Cathode assembly for electrolytic cell. 3,464,912, 9-2-69, Cl. 204-286.
Emery, Alvin T.; and Schmidtke, Charles W., to Hooker Chemical Corporation. Anolyte liquid level control for chlor-alkali diaphragm cells. 3,425,928, 2-4-69, Cl. 204-263.
Emery, Donald B., to Sheller Manufacturing Corporation. Method for making luminous plastic articles. 3,456,043, 7-15-69, Cl. 264-21.
Emery, Donald B.; and Miller, James A., to Sheller-Globe Corporation, mesne. Method of deflashing and polishing molded plastic articles. 3,446,890, 5-27-69, Cl. 264-341.
Emery, Ernest W.; and Kirss, Voldemar, to Allied Chemical Corporation. Liquid polyisocyanate compositions and process for the manufacture thereof. 3,462,470, 8-19-69, Cl. 260-453.
Emery, Frank E.: *See—*
Claytor, Richard N.; and Emery, Frank E.,3,436,666.
Emery Industries, Inc.: *See—*
Aylesworth, Robert D., 3,481,873.
Boehringer, Raymond H.; Aylesworth, Robert D.; and Utz, Walter E., 3,472,775.
Boylan, Jack B.; and Shanafelt, Gene K., 3,481,891.
Boylan, Jack B.; Aylesworth, Robert D.; and Boehringer, Raymond H., 3,485,754.
Van Tuyle, Robert W., 3,470,212.
Emery, James C.: *See—*
Sterrett, James R.; Emery, James C.; and Barber, John B.,3,468,609.
Emery, John V. Motor driven cleaning tool. 3,450,215, 6-17-69, Cl. 173-117.
Emery, Lewis A.: *See—*
Langsetmo, Peder K.; Ogden, Harry F., Jr.; and Emery, Lewis A.,3,425,135.
Emery, Michael Burgin, du Pont de Nemours, E. I., and Company. Yarn winding apparatus. 3,428,266, 2-18-69, Cl. 242-18.
Emery, Raymen F.: *See—*
Slavin, Michael; Emery, Raymen F.; and Carp, Ralph W.,3,477,346.
Emery, Robert B.; and Homrig, Horace J., to Halliburton Company. Thrust bearing incorporating a resilient, frictional member and method of assembly thereof. 3,424,504, 1-28-69, Cl. 308-37.
Emery, Robert D.: *See—*
Freese, Charles E.; and Emery, Robert D.,3,453,420.
Emery, Thomas A.: *See—*
Page, Leo W.; Emery, Thomas A.; and Sowers, Lewis C.,3,440,359.
Emery, William M. Backrest. 3,452,372, 7-1-69, Cl. 5-327.
Emery, William M. Patient elevating means for use in the process of spontaneous elimination. 3,465,367, 9-9-69, Cl. 4-112.
Emhart Corporation: *See—*
Balducci, Walter O.; and Welch, Nicholas A., 3,477,260.
Daly, Robert A., 3,461,902.
Doyle, William J., 3,441,269.
Fuller, Robert A., 3,463,465.
Horak, William; and Rowland, George Robert, 3,437,499.
Kulig, Constantine W., 3,428,174.
Lattke, Horst G., 3,478,491.
Mattioli, Harold P., 3,438,301.
McIntyre, Daniel, 3,455,085.
Rowe, George E., 3,457,838.
Rowe, George E., 3,460,931.
Sarkozy, Francis A., 3,461,903.
Spurr, Robert, 3,422,542.
Spurr, Robert; and Gardner, Edward Boyd, 3,483,971.
Surko, Walter E., Jr., 3,464,721.
Welch, Nicholas A.; and Wendt, Harry C., 3,463,046.
Wiseman, John A., 3,444,980.
Wiseman, John A., 3,482,674.
Wythe, Frederick J., 3,435,719.
Emhiser, Donald E.; and Pecoraro, George A., to PPG Industries, Inc. Process for melting glassmaking ingredients on a molten metal bath. 3,450,516, 6-17-69, Cl. 65-99.
E.M.I.-Cossor Electronics Limited: *See—*
Covill, Dennis H., 3,475,684.
Covill, Dennis H., 3,475,685.
Emich, Karl H., to National Distillers and Chemical Corporation. Sample handling system for gaseous organic contaminant detector. 3,432,272, 3-11-69, Cl. 23-254.
Emich, Karl H., to National Distillers and Chemical Corporation. Automatic reset for galvanometer controller for use with extrusion apparatus. 3,454,221, 7-8-69, Cl. 236-69.
Emich, Karl H., to National Distillers and Chemical Corporation. Sample admission system for a flame ionization contaminant detector. 3,460,908, 8-12-69, Cl. 23-232.
Emich, Karl H., to National Distillers and Chemical Corporation. Sensitivity control for gaseous organic contamination detector. 3,460,910, 8-12-69, Cl. 23-254.
Emich, Karl H.; and Wiley, Richard E., to National Distillers and Chemical Corporation. Pressure responsive control circuit for an electrolysis-type hydrogen generator. 3,485,742, 12-23-69, Cl. 204-230.
Emile Mills, Inc.: *See—*
Edwards, Junious J.; and Levine, Richard G., 3,420,196.
Emilsson, Sven Olov, to Dorr-Oliver Incorporated. Trunnion valve for continuous rotary filter. 3,471,027, 10-7-69, Cl. 210-331.
Eminger, Robert J., to Fort Wayne Tool & Die, Inc. Apparatus and method for inserting dynamoelectric machine coils and slot wedges. 3,447,225, 6-3-69, Cl. 29-205.
Eminger, Robert J., to Fort Wayne Tool & Die, Inc. Stator winding apparatus. 3,460,770, 8-12-69, Cl. 242-1.1
Eminger, Robert J.; and Tyson, Clayton L., to Fort Wayne Tool & Die, Inc. Coil forming method and apparatus. 3,481,372, 12-2-69, Cl. 140-92.1
Emissa S.A.: *See—*
Kunz, Paul-Albert, 3,484,629.
Emmer, Thomas Lee, to Nuclear-Chicago Corporation, formerly named Searle Nuclear Corporation. Pulse-counting time measurement method and apparatus. 3,432,687, 3-11-69, Cl. 307-229.
Emmerich, Claude L., to Singer-General Precision, Inc. Optical encoder comprising easily removable coded cylinder. 3,470,385, 9-30-69, Cl. 250-231.
Emmerich, Claude L., to Singer-General Precision, Inc. High accuracy pulse reset integrator. 3,487,204, 12-30-69, Cl. 235-183.
Emmerich, Clifford L.: *See—*
Keichler, Edwin J.; Emmerich, Clifford L.; and Stern, Theodore L.,3,460,512.
Emmerichs, Gerhard Theodor: *See—*
Eck, Fritz; and Emmerichs, Gerhard Theodor,3,438,799.
Emmerson, Arthur F. Sealed journal box with breather. 3,425,193, 2-4-69, Cl. 55-385.
Emmerson, Arthur F.; and Miles, Glynn A. Journal box lid gasket and method. 3,435,981, 4-1-69, Cl. 220-46.
Emmerson, Calvin W., to General Motors Corporation. Turbomachine rotor. 3,471,127, 10-7-69, Cl. 253-39.15
Emmerson, Calvin W.; and Meginnes, George B., to General Motors Corporation. Turbine rotor. 3,446,480, 5-27-69, Cl. 253-39.15
Emmert, Kenneth L., to Contacts, Inc. Bonding of silver-cadmium oxide bodies. 3,466,735, 9-16-69, Cl. 29-472.9
Emmert, Thomas E., to Stewart-Warner Corporation. Combustion chamber. 3,470,864, 10-7-69, Cl. 126-110.
Emmick, Charles R.: *See—*
Buxton, James E.; Emmick, Charles R.; and Mortensen, Harold R.,3,465,353.
Emmons, Buddie G.: *See—*
Lashley, Ronald T.; and Emmons, Buddie G.,3,447,413.
Emmons, Floyd R., to United Aircraft Corporation. Aircraft pressurization outflow valve. 3,426,984, 2-11-69, Cl. 244-117.
Emmons, Floyd R., to United Aircraft Corporation. Cabin pressure rate controller. 3,473,460, 10-21-69, Cl. 98-1.5
Emmons, Floyd R.: *See—*
Seger, Charles C.; and Emmons, Floyd R.,3,436,039.
Emmons Guitar Company, Inc.: *See—*
Lashley, Ronald T.; and Emmons, Buddie G., 3,447,413.
Emmons, Robert E., to Penn Controls, Inc. Low friction hinge connection. 3,435,476, 4-1-69, Cl. 74-103.
Emmons, William D., to Rohm & Haas Company. Non-conjugated polymerizable alkenylguanamines, polymers thereof, and methods of making them. 3,446,777, 5-27-69, Cl. 260-78.5
Emmons, William D.; and Levy, Jerome F., to Rohm & Haas Company. Acyloxyalkylamine hydrochlorides. 3,468,934, 9-23-69, Cl. 260-485.
Emmons, William D.; and Mercurio, Andrew, to Rohm & Haas Company. Copolymer composition for coating and impregnating purposes. 3,468,973, 9-23-69, Cl. 260-851.
Emmons, William D.; and Rolewicz, Henry A., to Rohm & Haas Company. Preparation of trinitratopentaerythrityl acrylate. 3,450,742, 6-17-69, Cl. 260-467.

Emneus, Nils Ingvar Arne; Gelotte, Erik B.; Rehn, Nils G.; and Soderqvist, Bjorn G. F., to Pharmacia Fine Chemicals AB. Method for separating substances of different molecular sizes from a viscose solution of said substances. 3,476,737, 11-4-69, Cl. 260-112.
Emons, William M., Jr.; and Charms, Saul. Electroless plating composition. 3,425,946, 2-4-69, Cl. 252-79.1
Emons, William M., Jr.: *See—*
Saubestre, Edward B.; and Emons, William M., Jr.,3,471,313.
Emoto, Masayuki; and Nakano, Masahiro, to Hitachi, Ltd. Phosphors. 3,459,674, 8-5-69, Cl. 252-301.6
Empire Brushes, Inc.: *See—*
Richardson, William P., 3,420,581.
Empire Products, Inc.: *See—*
Newman, Albert P., 3,486,165.
Senior, Robert, 3,482,205.
Empire Scientific Corporation: *See—*
Shaper, Harry B., 3,441,688.
Shaper, Harry B., 3,469,040.
Empisal (Proprietary) Limited: *See—*
Groom, Simeon H., 3,446,040.
Groom, Simeon H., 3,448,593.
Mizuki, Yoshiaki, 3,434,307.
Empresa Auxiliar de la Industria, S.A.: *See—*
Vian-Ortuno, Angel; Jimenez-Gomez, Segundo; and Diez-Vilches, Antonio, 3,453,072.
Empresa Nacional de Autocamiones, S.A.: *See—*
Mognet, Jean; Torello, Manuel S.; and Rius, Carlos C., 3,445,141.
E.M.S. Electrical Products Limited: *See—*
Hollander, John Michael, 3,436,043.
Hollander, John Michael, 3,475,567.
Emshwiller, Mac Lellan, to Bell Telephone Laboratories, Incorporated. Low noise pulse expansion using a scanned optical correlator. 3,466,112, 9-9-69, Cl. 350-161.
Emsig Manufacturing Corporation: *See—*
Fischler, Daniel A., 3,439,077.
Fischler, Daniel A., 3,459,843.
Emslie, Robert S.; Gulledge, Hugh C.; Lewis, George L.; and Willcox, Oswin Burr, to Du Pont de Nemours, E. I., and Company. Alkali metal titanates-TiO_2 pigmenting compositions. 3,484,260, 12-16-69, Cl. 106-300.
Emus, Ronald Wilbur, to Grace, W. R., & Co. Apparatus for heat shrinking biaxially oriented polymer films. 3,427,789, 2-18-69, Cl. 53-329.
En Mail Machine Corporation: *See—*
Volks, Herbert; and Ouellette, Clarence P., 3,468,227.
Enalev, Vsevolod Dmitrievich: *See—*
Gendrikov, Eduard Pavlovich; Enalev, Vsevolod Dmitrievich; and Samoilenko, Galina Vladimirovna,3,445,535.
Enamel Products Company, The: *See—*
Johnson, George C., Jr., 3,486,246.
Enami, Shigekazu: *See—*
Kan, Masao; Hyodo, Hiroshi; Watanabe, Akio; and Enami, Shigekazu,3,432,327.
Enault, Neal C.: *See—*
Augenstein, John G.; and Enault, Neal C.,3,441,662.
Encon Manufacturing Company: *See—*
Toelke, Lester W.; and Hanson, Irven E., 3,461,676.
Endacott, John Derrick; and Manktelow, Anthony John, to British Insulated Callender's Cables Limited. Electric cables. 3,461,219, 8-12-69, Cl. 174-25.
Endal, Anders B.: *See—*
Yeatman, Richard H. M.; and Endal, Anders B.,3,448,626.
Ender, Hans H., to Union Carbide Corporation. Isomerization of certain polyenes employing a metal catalyst and a hydrosilicon compound. 3,449,384, 6-10-69, Cl. 260-405.6
Ender, Wyman K.: *See—*
Hoffman, David C.; Ender, Wyman K.; and Wold, Allan I.,3,461,685.
Enderlein, Hans-Carl, to PAG Presswerk AG. Method of molding a material to prevent plugging of vent holes in the die. 3,439,081, 4-15-69, Cl. 264-112.
Endermann, Fritz; Munder, Johannes; and Stroszynski, Joachim, to Keuffel & Esser Company, mesne. Process and apparatus for the development of photocopying material. 3,440,944, 4-29-69, Cl. 95-89.
Enders, Fritz: *See—*
Wendel, Gunter; and Enders, Fritz,3,483,674.
Enders, Heinz; and Deiner, Hans, to Chemische Fabrik Pfersee G.m.b.H. Production of condensation products from a glycidyl ether compound, etherified methylol aminotriazine, and an alkanol amine. 3,456,035, 7-15-69, Cl. 260-834.
Enders, Heinz; and Diener, Hans, to Chemische Fabrik Pfersee G.m.b.H. Process of manufacturing concentrated aqueous emulsions and emulsions produced by such process. 3,466,178, 9-9-69, Cl. 106-2.
Enders, Heinz; and Pusch, Gunter, to Chemische Fabrik Pfersee G.m.b.H. Process for manufacturing 1,3 - diaminopropanol -(2). 3,432,553, 3-11-69, Cl. 260-585.
Enders, Marlin S. Highly sensitive circuit employing the temperature sensitive characteristics of two transistors to control a switching device. 3,436,564, 4-1-69, Cl. 307-310.
Endevco Corporation: *See—*
Lovelace, Donald E., 3,444,499.
Peters, Rex B., 3,461,730.
Shoor, Bernard A., 3,474,526.
Endicott, John Seward; and Zick, Leonard Paul, Jr., to Chicago Bridge & Iron Company. Liquid storage tank using metal ring band instead of thicker lower courses. 3,471,053, 10-7-69, Cl. 220-5.
Endler, John J., to Lummus Company, The. Process for producing prills. 3,446,877, 5-27-69, Cl. 264-8.
Endo, Koichi: *See—*
Amemiya, Kinya; and Endo, Koichi,3,481,670.
Endo Laboratories Inc.: *See—*
Schoen, Karl; and Pachter, Irwin J., 3,467,755.
Endo, Shigeo: *See—*
Matsuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi,3,484,604.
Matuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi,3,486,022.
Endoh, Takeo: *See—*
Ashikaga, Tadao; Kurashige, Hirotoshi; and Endoh, Takeo,3,484,409.
Endres, Dan Darold, to Kimberly-Clark Corporation. Non-adherent surgical dressing. 3,441,021, 4-29-69, Cl. 128-156.
Endres, Joseph G.; Wrobel, Raymond J.; and Rendek, Robert B., to Armour and Company. Procedure for continuously tempering shortening. 3,469,996, 9-30-69, Cl. 99-118.
Endress, James W.: *See—*
Anderson, Carl M.; and Endress, James W.,3,421,685.
Endress, James W., to Carrier Corporation. Rotor cooling arrangement. 3,462,625, 8-19-69, Cl. 310-61.
Endsdown Company Inc.: *See—*
Liebowitz, Benjamin; and Cohen, Morris U., 3,434,478.
Enelow, Gertrude S. Pillow. 3,426,372, 2-11-69, Cl. 5-337.
Eneman, Melvin: *See—*
Goldstein, David A.; Nystrom, Roy; Borchert, Alfred; and Eneman, Melvin,3,485,172.
Enemark, Arne F.; Kjeldsen, Kjeld; and Larsen, Bendt Wegge, to Danfoss A/S. Fabricated cylinder head and silencer chamber assembly for a refrigerant compressor. 3,480,206, 11-25-69, Cl. 230-232.
Enemark, Arne, to Danfoss A/S. Pump shaft seal. 3,469,851, 9-30-69, Cl. 277-85.
Enemark, Robert B.; and Tsao, Carson K. H., to Continental Electronics Manufacturing Company, mesne. Directional antenna signal combining arrangement and phase shifters therefor. 3,478,269, 11-11-69, Cl. 325-369.
Enenkel, Hans Joachim: *See—*
Schulte, Karl; Fruhstorfer, Wolfgang; Muller, Heinrich; Friebel, Hans; Enenkel, Hans Joachim; and Gillissen, Josef,3,461,164.
Enenstein, Norman H., to Litton Industries, Inc. Laser system. 3,427,611, 2-11-69, Cl. 343-6.
Energy Conversion Devices, Inc.: *See—*
Ovshinsky, Stanford R., 3,461,296.
Energy Conversion Limited: *See—*
Gillespie, Peter James, 3,468,712.
Energy Systems, Inc.: *See—*
Carini, Eugene P., 3,477,536.
Energy Technology, Inc.: *See—*
Martin, Cecil G., 3,484,038.
Energy Transformation Corporation: *See—*
Toesca, Rene A. M., 3,467,072.
Enfo Entwicklungs- und Forschungs-Aktiengesellschaft: *See—*
Sochting, Franz, 3,456,684.
Eng, Jackson; and Bumbulis, Janis, to Esso Research and Engineering Company. Production of liquefied petroleum gas from olefin hydrogenation during catalytic reforming. 3,434,961, 3-25-69, Cl. 208-238.
Eng, Jackson; and Guggisberg, William R., to Esso Research and Engineering Company. Process for hydrofining bitumen derived from tar sands. 3,480,540, 11-25-69, Cl. 208-93.
Eng, Jackson; Thomson, Gordon H.; and VanderLinden, Ronald C., to Esso Research and Engineering Company. Hydrodesulfurization of blended feedstock. 3,475,327, 10-28-69, Cl. 208-211.
Eng, Jackson; and Tiedje, John L., to Esso Research and Engineering Company. Process for improving motor octane of olefinic naphthas. 3,442,792, 5-6-69, Cl. 208-62.
Eng, Jackson; and Tiedje, John L., to Esso Research and Engineering Company. Catalytic treatment of flashed naphtha and gas oil fraction in sour crude oil. 3,484,366, 12-16-69, Cl. 208-208.
Enga, Eric: *See—*
Bloom, Myer; Enga, Eric; and Lew Hin,3,484,603.
Engalitcheff, John, Jr.; Faciu, Thomas F.; and Bradley, Wilson E., Jr., to Baltimore Aircoil Company, Inc. Evaporative heat exchanger with airflow reversal. 3,437,319, 4-8-69, Cl. 261-29.

Engalitcheff, John, Jr.; Facius, Thomas F.; Bradley, Wilson E., Jr.; and Anderson, Axel F. L., to Baltimore Aircoil Company, Inc. Evaporative heat exchange apparatus. 3,442,494, 5-6-69, Cl. 261-29.
Engbert, Wilhelm, to Telefunken Patentverwertungsgesellschaft m.b.H. Manufacture of semiconductor arrangements using a masking step. 3,445,303, 5-20-69, Cl. 148-187.
Engebretsen, Einar O., to General Electric Company. Additive dispensing means for a washing machine. 3,479,845, 11-25-69, Cl. 68-17.
Engel, Carl: *See—*
Murphy, James A.; Watkins, Cecil H.; Dewhurst, Ernest James; and Engel, Carl,3,473,694.
Engel, Edward F.; and Scherzer, Harry S., to Schlegel Manufacturing Company, The. Polishing buff. 3,430,283, 3-4-69, Cl. 15-230.12
Engel Equipment, Inc.: *See—*
Frizell, Charles T., 3,444,776.
Werntz, Charles W., 3,447,351.
Wiggers, Don J., 3,481,813.
Engel, Eric: *See—*
Dros, Barbara; and Engel, Eric,3,476,572.
Engel, Fred C.: *See—*
Georges, Nicholas J.; and Engel, Fred C.,3,486,973.
Engel, Frederico: *See—*
Muller, Karl Adolf; Engel, Frederico; and Gude, Armin,3,476,711.
Engel, Frederico; and Beckmann, Gunter, to Chemische Werke Huls Aktiengesellschaft. Polymerization technique. 3,446,786, 5-27-69, Cl. 260-94.2
Schafer, Johannes; Berg, Gerhard; and Engel, Frederico,3,450,797.
Engel, Harry Charles: *See—*
Bova, Joseph Don; and Engel, Harry Charles,3,458,385.
Engel, Henry: *See—*
Gustetic, Stanley J.; Boytz, Charles B.; and Engel, Henry,3,420,389.
Engel, Horst: *See—*
Michels, Peter; and Engel, Horst,3,470,050.
Engel, Jan Marcin, to International Business Machines Corporation. Electrostatic storage display device. 3,447,021, 5-27-69, Cl. 315-10.
Engel, Joel S., to Northrop Corporation. Monitoring device for distinguishing between voice and data signals. 3,448,215, 6-3-69, Cl. 179-1.
Engel, John H., Jr., to Chrysler Corporation. Preparation of blocked isocyanate adducts. 3,454,621, 7-8-69, Cl. 260-471.
Engel, Joseph C., to Westinghouse Electric Corporation. Solid-state constant power ballast for electric discharge device. 3,486,070, 12-23-69, Cl. 315-225.
Engel, Joseph C.; and Elms, Robert T., to Westinghouse Electric Corporation. Low cost, solid state photocontrol circuit. 3,483,429, 12-9-69, Cl. 315-156.
Engel, Karl, to Domtar Limited. Self-locking box. 3,432,090, 3-11-69, Cl. 229-51.
Engel, Lawrence J., to Esso Research and Engineering Company. 2,3-Bis-(NF_2)-2-halopropane nitrile. 3,440,271, 4-22-69, Cl. 260-465.5
Engel, Lewis O. Centrifuge apparatus with flexible boot. 3,485,445, 12-23-69, Cl. 233-28.
Engel, Manfred Otto, to International Research & Development Company Limited. Magnetohydrodynamic electricity generating systems. 3,453,461, 7-1-69, Cl. 310-11.
Engel, Martin E., to National Dairy Products Corporation. Steam infuser. 3,450,022, 6-17-69, Cl. 99-251.
Engel, Thomas Paul, to Phillips Petroleum Company. Producing a hollow molding by folding and sealing a thermoplastic sheet. 3,479,424, 11-18-69, Cl. 264-151.
Engel, Walter, to Oerlikon-Buhrle Holding, Ltd. Sabot projectile. 3,435,768, 4-1-69, Cl. 102-87.
Engel, Walter, to Oerlikon-Buhrle Holding Ltd. Sabot projectile with core guiding means. 3,447,466, 6-3-69, Cl. 102-93.
Engel, Walter, to Siemens Aktiengesellschaft. Self-adjusting compensator preferably for measuring recorders. 3,448,359, 6-3-69, Cl. 318-18.
Engel, Walter; and Burri, Heinrich, to Oerlikon-Buhrle Holding Ltd. Casing for the sabot of a projectile. 3,446,147, 5-27-69, Cl. 102-93.
Engel, Willi G., to Bell & Howell Company. Light valve assembly for motion picture film printer. 3,454,328, 7-8-69, Cl. 350-271.
Engel, William T.: *See—*
Napor, Carl A.; and Engel, William T.,3,466,128.
Napor, Carl A.; Engel, William T.; and Krumm, Charles G.,3,457,627.
Engel, Wolfhard: *See—*
Seeger, Ernst; Engel, Wolfhard; and Kadatz, Rudolf,3,457,265.
Engelberg, Charles; and Orsen, Stefan, to American Standard, Inc. Drift correction. 3,445,839, 5-20-69, Cl. 340-347.
Engelbrecht, Lloyd R., to Motorola, Inc. Radio transmission system with independent diversity reception of plural sideband components. 3,452,156, 6-24-69, Cl. 179-15.
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N., to Monsanto Company. Hydrocracking process. 3,459,821, 8-5-69, Cl. 260-668.
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N., to Monsanto Company. Dealkylation of alkyl aromatics using a hydrogenated aromatic hydrogen donor. 3,485,883, 12-23-69, Cl. 260-672.
Engelbrecht, Rudolf S., to Bell Telephone Laboratories, Incorporated. Adjustable phase equalizer. 3,421,118, 1-7-69, Cl. 333-28.
Engelbrecht, Rudolf S., to Bell Telephone Laboratories, Incorporated. Broadband angle resolver for phased array receiving systems. 3,458,836, 7-29-69, Cl. 333-18.
Engelbrecht, Wilhelm, to Hoesch Maschinenfabrik Deutschland AG. Turning lathe. 3,469,476, 9-30-69, Cl. 82-14.
Engeler, Paul, to Schweizerische Industrie-Gesellschaft. Mechanism for packing parallelepipedal articles. 3,427,784, 2-18-69, Cl. 53-172.
Engeler, William E., to General Electric Company. Semiconductor light-emitter and combination light- emitter-photocell wherein the reflector of the light emitter is comprised of a meterial different from that of the light-emitter. 3,462,605, 8-19-69, Cl. 250-211.
Engeler, William E.: *See—*
Tiemann, Jerome J.; Engeler, William E.; Garfinkel, Marvin; and Fritzsche, Hellmut,3,462,223.
Engelfried, Otto; Lehmann, Hans-Gunter; Neumann, Friedmund; and Wiechert, Rudolf, to Schering AG. Anabolic composition comprising 1,2α-methylene- 19-nor testosterone. 3,444,295, 5-13-69, Cl. 424-243.
Engelhard Hanovia, Inc.: *See—*
Highberg, Carle W.; and Speirs, James B., 3,451,721.
Highberg, Carle W., 3,471,975.
Teeter, Ford C.; Sheldahl, David B.; and Highberg, Carle W., 3,453,784.
Engelhard Hanovia of Canada Limited: *See—*
Hardwick, Geoffrey H. E., 3,433,946.
Engelhard Industries, Inc.: *See—*
Adlhart, Otto J.; and Hever, Keith O., 3,424,619.
Adlhart, Otto J.; Keith, Carl D.; and Pond, George R., 3,425,875.
Adlhart, Otto J.; Halpern, Modecai J.; and Shields, Hugh A., 3,453,149.
Adlhart, Otto J.; and Hartner, Antal J., 3,475,224.
Adlhart, Otto J., 3,481,787.
Cohn, Johann G. E.; Adlhart, Otto J.; and Hever, Keith O., 3,440,103.
Collins, Martin F., 3,451,783.
Greenspan, Lawrence, 3,423,295.
Greenspan, Lawrence, 3,466,233.
Haley, Alfred J., Jr.; Keith, Carl D.; and May, James E., 3,461,058.
Hauel, Anna P.; and Langley, Robert C., 3,434,871.
Hauel, Anna P.; Hill, James S.; and Reilly, William E., 3,437,525.
Hindin Saul Gerald; and Dettling, Joseph C., 3,484,194.
Keenan, Julian J.; Lilja, Sten A.; and Kramos, Charles B., 3,465,419.
Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A., 3,420,784.
Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A., 3,423,328.
Keith, Carl D., 3,428,424.
Keith, Carl D.; and Cornely, Kurt W., 3,429,660.
Keith, Carl D., 3,437,605.
Keith, Carl D.; and Mooney, John J., 3,441,359.
Keith, Carl D.; Schreuders, Teunis; and Cunningham, Charles E., 3,441,381.
Keith, Carl D.; and Schreuders, Teunis, 3,441,382.
Keith, Carl D.; Cunningham, Charles E.; and Schreuders, Teunis, 3,443,911.
Langley, Robert C., 3,434,879.
Langley, Robert C., 3,475,192.
Pfefferle, William C., 3,481,722.
Romeo, Philip L., Sr., 3,425,803.
Rubin, Leonard R., 3,437,357.
Rylander, Paul N., 3,423,462.
Rylander, Paul N.; and Steele, Duane R., 3,423,472.
Rylander, Paul N., 3,487,116.
Spooner, Howard E.; and Wozniak, Theodore A., 3,451,836.
Zysk, Edward D.; Osovitz, Eugene E.; and Stephans, Robert W., 3,451,859.
Engelhard Minerals & Chemicals Corporation: *See—*
Bonnet, Robert E., 3,486,301.
Cecil, Tom A.; Gerstenmier, Harold J.; Hamill, Herbert R.; and Puskar, Victor, 3,477,565.
Duke, James B., 3,425,546.
Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,433,587.
Haden, Walter L., Jr.; and Sawyer, Edgar W., Jr., 3,434,864.
Hecklau, Frederick L.; and Allegrini, Aldo P., 3,433,704.
Langley, Robert C., 3,428,473.
Langley, Robert C.; and Myers, Herbert, 3,428,476.

Langley, Robert C., 3,445,662.
Mallary, Miller B., 3,439,802.
Mercade, Venancio, 3,459,299.
Mercade, Venancio, 3,462,013.
Mercade, Venancio V., 3,454,161.
Nease, John C., 3,450,666.
Sommer, Don A.; and Doerwang, Joseph F., 3,433,356.
Tolliver, Albert C., 3,467,277.

Engelhard, Otto, to Indian Head Inc. Warp knit fabric. 3,478,545, 11-18-69, Cl. 66-195.

Engelhard, Philippe A.; and Weisang, Joseph Edouard. Selective hydrogenation with minimum acidity catalyst. 3,444,256, 5-13-69, Cl. 260-677.

Engelhard, Philippe A.; and Weisang, Joseph Edouard. Selective hydrocarbon hydrogenation with metallic cadmium on alumina. 3,444,257, 5-13-69, Cl. 260-677.

Engelhard, William E., to Pyro-Serv Instruments, Inc. Heat control apparatus. 3,430,856, 3-4-69, Cl. 236-15.

Engelhard, William E., to Owego Heat Treat, Inc. Method of and apparatus for cooling retorts rapidly and under negative pressure. 3,481,047, 12-2-69, Cl. 34-20.

Engelhardt, Albrecht: *See*—
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeille, Karl,3,459,782.

Engelhardt, Edward L.: *See*—
Cope, Arthur C.; Engelhardt, Edward L.; Keene, Katheryn, executris of the estate of; and Cope, Arthur C., deceased,3,454,643.

Engelhardt, Edward L., to Merck & Co., Inc.Method of treating depression with 5-(3-dimethylaminopropylidene)dibenzo[a,d][1,4]cycloheptadiene or its non-toxic salts thereof. 3,428,735, 2-18-69, Cl. 424-330.

Engelhardt, Edward L.; and Christy, Marcia E., to Merck & Co., Inc. Chemical compounds and methods of preparing same. 3,428,677, 2-18-69, Cl. 260-556.
Thominet, Michel Leon; and Engelhardt, Edward L.,3,423,512.

Engelhardt, Eugene Herman, to Du Pont de Nemours, E. I., and Company. Coating compositions comprising polysilicic acid, selected organic polymers, and selected silicones. 3,476,827, 11-4-69, Cl. 260-825.

Engelhardt, Friedrich J. O., to United States of America, Army. Heat resistant polypropylene. 3,485,660, 12-23-69, Cl. 117-118.

Engelhardt, Friedrich J. O.; and Benderly, Asaf A., to United States of America, Army. Foamed resin process. 3,442,828, 5-6-69, Cl. 260-2.5

Engelhardt, Friedrich: *See*—
Wollner, Johannes; and Engelhardt, Friedrich,3,422,148.

Engelhardt, Fritz: *See*—
Von Brachel, Hanswilli; and Engelhardt, Fritz,3,476,717.

Engelhardt, Gunter, to Walther-Buromaschinen G.m.b.H. Tabulator arrangement for office machines. 3,442,446, 5-6-69, Cl. 235-60.5

Engelhardt, Gunther: *See*—
Noll, Klaus Reinhold; Berg, Alex; Machleidt, Hans; Roethele, Werner; and Engelhardt, Gunther,3,470,190.

Engelhardt, Robert C., to Honeywell Inc. Control adapter assembly for a chain printer. 3,444,529, 5-13-69, Cl. 340-172.5

Engelhardt, Vaughn A., to Du Pont de Nemours, E. I., and Company. Reaction products and processes. 3,431,089, 3-4-69, Cl. 23-358.

Engelhart, John E., to Esso Research and Engineering Company. Dewaxing aid composition. 3,449,236, 6-10-69, Cl. 208-28.

Engelhorn, Robert: *See*—
Nickl, Josef; Keck, Johannes; and Engelhorn, Robert,3,448,106.
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid,3,470,152.

Engelking, Frederick S., to Caterpillar Tractor Company. Axially narrow metal face seals. 3,452,995, 7-1-69, Cl. 277-92.

Engelman, Fred H.: *See*—
Emerson, Paul D.; Engelman, Fred H.; Baggett, Frank A.; and Oatfield, John C.,3,477,661.

Engelman, Reinhart W. H.: *See*—
Atalla, Martin M.; Archer, Robert J.; Hall, Robert D.; and Engelman, Reinhart W. H.,3,422,289.

Engelmann, Joachim. Adjustable side view mirror. 3,434,688, 3-25-69, Cl. 248-483.

Engelmann, Walter, to Fibora AG. Control linkage. 3,427,897, 2-18-69, Cl. 74-588.

Engelmann, Walter, to Fibora AG. Unilaterally open safety clip. 3,442,171, 5-6-69, Cl. 85-8.8

Engelmann, Walter, to Fibora AG. Rotatable and interchangeable pin supporting fixture. 3,453,926, 7-8-69, Cl. 85-8.8

Engelmann, Werner: *See*—
Weyrich, Arthur G.; and Engelmann, Werner,3,474,753.

Engels, August, G.m.b.H.: *See*—
Maurmann, Siegfried; and Maurmann, Werner, 3,440,634.

Engels, Gunther; Kablitz, Gert; and Wischmann, Heinrich, to U.S. Philips Corporation, mesne. Faceplate with land portions having two cavities for receiving shadow mask support members. 3,450,920, 6-17-69, Cl. 313-85.

Engels, Jakob: *See*—
Regelin, Donald H.; and Engels, Jakob,3,439,910.

Engels, Kurt. Electric motor with permanent magnet rotor having a fluid impeller and hollow bearing. 3,436,570, 4-1-69, Cl. 310-46.

Engelsher, Harvey J.; and McKirby, Robert W., to Horizon Industries, Ltd., mesne. Adjustable shut-off valve. 3,477,686, 11-11-69, Cl. 251-10.

Engelsher, Harvey J.: *See*—
McKirdy, Robert W.; and Engelsher, Harvey J.,3,460,526.
McKirdy, Robert W.; and Engelsher, Harvey J.,3,460,789.

Engelsman, Jan Johannes; Krijl, Gerritt; and Baeyens, Petrus, to U.S. Philips Corporation, mesne. Tin plating baths. 3,483,100, 12-9-69, Cl. 204-54.

Engelsmann, Dieter: *See*—
Kremp, Rudolf; Wagner, Karl; Engelsmann, Dieter; and Winkler, Alfred,3,463,069.

Engelsmann, Dieter; and Hackenberg, Hubert, to Agfa-Gevaert Aktiengesellschaft. Exposure regulating device for photographic camera. 3,463,066, 8-26-69, Cl. 95-10.

Engelsmann, Dieter; and Maas, Dieter, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with exposure meter. 3,420,152, 1-7-69, Cl. 95-10.

Engelsmann, Dieter; and Maas, Dieter, to Agfa-Gevaert Aktiengesellschaft. Photographic camera. 3,446,130, 5-27-69, Cl. 95-10.

Engelsmann, Dieter; Maas, Dieter; Bammesberger, Karl; and Hackenberg, Hubert, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with flash unit. 3,463,068, 8-26-69, Cl. 95-11.5

Engelsmann, Dieter; Von Wasielewski, Erwin; and Winkler, Alfred, to Agfa Aktiengesellschaft. Camera structure for indicating when the camera is ready for operation. 3,470,799, 10-7-69, Cl. 95-10.
Wick, Richard; Engelsmann, Dieter; and Winkler, Alfred,3,447,433.

Engelstein, Stanley, to NB Jackets Corporation. Microfiche reader-filler machine. 3,457,697, 7-29-69, Cl. 53-123.

Engelstein, Stanley, to Bellhow Jackets Inc., mesne. Color-coded filecards. 3,486,259, 12-30-69, Cl. 40-78.15

Enger, Helmut: *See*—
Plum, Hans; Feldges, Werner; Enger, Helmut; and Grefen, Hans,3,431,595.

Enger-Kress Company: *See*—
Kery, Ervin, 3,470,931.

Engert, Hubert: *See*—
Karl, Leopold; and Engert, Hubert,3,443,314.

Engh, Howard A.; and Lord, John M., to Automatic Electric Laboratories, Inc. Face panel fastener for a telephone. 3,480,743, 11-25-69, Cl. 179-178.

Engh, Robert O., to Honeywell Inc. Ultraviolet sensitive geiger tube operating circuit with reverse quench voltage. 3,435,225, 3-25-69, Cl. 250-83.6

Engh, Robert O., to Honeywell Inc. Noninterfering spark igniter and ultraviolet sensitive flame detector. 3,451,759, 6-24-69, Cl. 431-79.

Engineered Date Products, Inc.: *See*—
Osojnak, Boris M., 3,472,386.

Engineered Machine Builders Co., Inc.: *See*—
Pennings Matheus D., 3,444,612.

Engineered Products Company, The: *See*—
Pietsch, Raymond L., 3,427,058.

Engineering Automotive Sciences Inc.: *See*—
Russell, Carl D., 3,486,811.

Engineering Company, Inc.: *See*—
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez, 3,462,538.

Engineering Field Services: *See*—
Colson, George P., 3,484,136.

Engineering Model Associates: *See*—
Wanderman, Herbert A., 3,419,970.
Wanderman, Herbert A.; and Harris, Stanley R., 3,481,058.

Engineers Collaborative, Ltd., The: *See*—
Naslund, Kenneth C.; and Bihler, Leonard A., 3,442,058.

Engins Matra: *See*—
Sautier, Pierre; and Bouillard, Paul, 3,438,304.
Sautier, Pierre Jean, 3,430,562.

England, Alan Gordon, to Lucas, Joseph, (Industries) Limited. Fluid proportioning devices. 3,450,055, 6-17-69, Cl. 103-51.

England, Arthur Keith. Handlifting tools. 3,436,111, 4-1-69, Cl. 294-49.

England, David C.: *See*—
Andreades, Sam; and England, David C.,3,423,465.
Andreades, Sam; and England, David C.,3,455,881.

England, David C., to Du Pont de Nemours, E. I., and Company. Copolymers of perfluoromethacrylyl fluoride. 3,423,378, 1-21-69, Cl. 260-80.8

England, Harold H. Ice auger hole visual fishing aid. 3,464,137, 9-2-69, Cl. 43-4.

England, Jerry B. Adapter for converting the cooling of electric arc lead and torch from air to water cooling. 3,463,225, 8-26-69, Cl. 165-47.

England, Wilbur B.; Pero, John P., III; Siciliano, Gasparo P.; and Takata, Victor T. Cup-making method and apparatus. 3,468,226, 9-23-69, Cl. 93-39.3
Englander Company, Inc., The: *See*—
Fasanella, George S., 3,475,769.
Englander, Robert A.; and Justis, Luther E., to Simplimatic Development Corporation, mesne. Case packing apparatus. 3,481,108, 12-2-69, Cl. 53-160.
Engle, Allen W., to Dresser Industries, Inc. Gating system and method for discriminating between valid and invalid analog signal information in acoustic well logging. 3,467,875, 9-16-69, Cl. 328-147.
Engle, Bruce W. Thermohumidistat. 3,484,947, 12-23-69, Cl. 34-48.
Engle, Charles A. Athletic goal device. 3,428,319, 2-18-69, Cl. 273-102.
Engle, Charles E.; and Nelson, James A., to Dana Laboratories, Inc. Force transducer output measuring system employing ratio technique. 3,464,508, 9-2-69, Cl. 177-164.
Engle, Charles J., to Phillips Petroleum Company. Method and apparatus for defoaming crude oil down hole. 3,485,300, 12-23-69, Cl. 166-265.
Engle, Jack F.; and Jeakle, William G., to Borg-Warner Corporation. Differential mechanism. 3,429,400, 2-25-69, Cl. 184-11.
Engle, Vencil D.; and Roller, Donald C., to International Business Machines Corporation. Cartridge ribbon supply. 3,481,445, 12-2-69, Cl. 197-151.
Englebert Aktiengesellschaft: *See*—
Auler, Hans W.; and Proske, Gerhard, 3,451,962.
Engleman, Donald E., to American Air Filter Company, Inc. Method of making a sealing gasket. 3,438,117, 4-15-69, Cl. 29--450
Engleman, Frederick H.; and McNamara, Michael M., to Monsanto Company. Drawing and heat relaxing nylon yarn. 3,441,642, 4-29-69, Cl. 264-237.
Engler, John F. Wheel mount. 3,435,599, 4-1-69, Cl. 56-25.4
Engler, Otto, to Vereinigte Kesselwerke A.G. Ball mill. 3,454,231, 7-8-69, Cl. 241-103.
Engler, Rolf Hans: *See*—
Lange, Siegfried Karl; Naumann, Gunther Erich; Engler, Rolf Hans; and Nicolai, Hans-Joachim Reinhold,3,484,800.
Englesberg, Julius L.; Krell, Alfred; and Otto, Walter J., said Krell and said Otto assors. to said Englesberg. Pump employing magnetic drive. 3,420,184, 1-7-69, Cl. 103-87.
Englesson, Sixten, to Flygt Corporation. Submersible pumps. 3,427,982, 2-18-69, Cl. 103-87.
Englesson, Sixten, to Stenberg-Flygt AB. Centrifugal pump with slip coupling. 3,433,162, 3-18-69, Cl. 103-87.
English, Alfred C., to Boss Manufacturing Company. Glove display device. 3,478,942, 11-18-69, Cl. 223-85.
English, Brian Box: *See*—
Coulter, Albert George; and English, Brian Box,3,484,550.
English Clays Lovering Pochin & Company Limited: *See*—
Brociner, Ronald Eric, 3,464,634.
Clark, Norman Owen; and Windle, William, 3,484,279.
Cundy, Edwin Kenneth, 3,450,257.
Malden, Peter James; and Windle, William, 3,482,685.
English Electric Company Limited, The: *See*—
Ainsworth, John Desmond, 3,458,795.
Ainsworth, John Desmond, 3,466,525.
Ainsworth, John Desmond, 3,467,848.
Ainsworth, John Desmond, 3,470,442.
Ainsworth, John Desmond, 3,474,321.
Ainsworth, John Desmond, 3,475,702.
Ashpole, Raymond Sidney; and Davidson, Thomas William, 3,434,872.
Ashpole, Raymond Sidney; and Wells, Sydney Tom, 3,451,847.
Aveyard, Norman; and Bull, David George, 3,451,023.
Barker, John; Gonek, Stanislaw Mieczyslaw; and Read, Brian Neville, 3,443,484.
Barker, John; Gonek, Stanislaw Mieczyslaw; and Love, Kenneth George, 3,453,407.
Beddoe, Stanley, 3,470,341.
Begent, Harry Hawley, 3,474,256.
Bennett, Roy Brian; and Blair, William Carmichael, 3,435,262.
Bowles, John Patrick, 3,453,526.
Braikevitch, Michael; and Arthur, Bruce Donald, 3,422,275.
Brough-Cunningham, Keith Begbie; Wardle, Leonard George; and Cullen, Michael, 3,467,889.
Burdett, Edward Raymond, 3,471,814.
Burdett, Edward Raymond, 3,474,257.
Burnett, Thomas Brian; and Ball, David Alan, 3,456,129.
Burnett, Thomas Brian, 3,467,858.
Caldwell, John, 3,474,855.
Christopher, Peter James, 3,428,078.
Conibeer, George William, 3,422,766.
Conibeer, George William, 3,469,862.
Cowin, William Alan; and Carter, Ronald Philip, 3,469,196.
Daltry, John Harold, 3,422,883.
Daltry, John Harold, 3,434,529.
Davies, Edward William, 3,452,932.
Dowling, John, 3,451,354.
Feenan, John; Jacks, Eric; and Murphy, John Eric, 3,432,923.
Gatiss, John William; and Joyce, William John, 3,443,156.
Harding, Gordon Thomas, 3,451,216.
Hartland, Derek; and Hartles, Walter Frederic, 3,447,473.
Heard, Jeffery Gerald; and Bennett, Roy Brian, 3,476,961.
Hitchcock, Keith Norman; Thomas, Geoffrey Bernard; and Watson, Henry, 3,447,320.
Hoel, Hans, 3,474,333.
Hutchinson, Desmond Ernest; and Wilkinson, Harry, 3,449,982.
Jacks, Eric; Feenan, John; and Clarke, Wilfred, 3,451,025.
Jacks, Eric; and Rowe, Charles, 3,480,901.
Livsey, Walter Oldham; and Young, Alexander Gillies, 3,470,066.
McMillan, Peter William; and Partridge, Graham, 3,460,987.
Morris, David Joseph, 3,424,917.
Morris, David Joseph, 3,433,973.
Moscardi, Michael Henry, 3,445,742.
Paddison, Eric; and Lally, Gordon John, 3,456,219.
Palmer, Thomas Henry, 3,440,017.
Price, Jack Richard, 3,445,813.
Rawson, Peter John; and Shaw, Michael Kevin, 3,477,383.
Robinson, Alfred Alexander; and Calvesbert, James William, 3,469,050.
Schofield, Clifford Raymond, 3,455,177.
Simpson, Michael Charles Stephen, 3,487,266.
Wale, George David, 3,449,702.
Walker, Edward Piper, 3,483,751.
Whitelaw, Robert David MacGregor; and Wright, Alistair William Holmes Lawson, 3,458,742.
Yerrell, John Stuart, 3,480,805.
English Electric Computers Limited: *See*—
Allmark, Reginald Hugh, 3,448,288.
Glazebrook, Ellis; and Chisholm, Kenneth Duncan Fraser, 3,467,838.
Lucking, James Robert, 3,422,401.
English Electric Valve Company, Limited: *See*—
Bennett, Maurice Ronald, 3,434,006.
Collis, Alec Peter Orme; and Carr, David Ward, 3,441,081.
Cooper, Brian Frederick, 3,441,781.
Copper, Brian Frederick, 3,441,796.
Fuller, Edwin Russell; and Slark, Norman Arthur, 3,461,336.
Harris, Neville Wreford; and Hughes, Brian Geoffrey, 3,441,783.
Honeyball, Walter John, 3,477,110.
Lake, Ronald Ernest; and Rees, Donald, 3,440,559.
Menown, Hugh; and Jones, Eric, 3,440,467.
Mitchell, Arthur George, 3,484,512.
Thompson, Roger Ross; and Ball, Roger, 3,452,246.
English Electric-Leo-Marconi Computers Limited: *See*—
Beesley, John; and Hyman, Robert Anthony, 3,480,755.
English, Francis Guy Sydenham, to Temco Tools Limited. Profile transfer devices. 3,483,629, 12-16-69, Cl. 33-175.
English, Jack A.: *See*—
van Benthuysen, John D.; and English, Jack A.,3,421,133.
English, Jackson Pollard; Hickman, John Bibb; and Gilbert, Richard Lapham, Jr., to American Cyanamid Company. Process for preparing wet process phosphoric acid and calcium sulfate from phosphate rock. 3,467,496, 9-16-69, Cl. 23-122.
English, James F., to General Electric Company. Bromine regenerative cycle incandescent lamps. 3,431,448, 3-4-69, Cl. 313-37.
English, James F., to General Electric Company. Halogen regenerative cycle incandescent lamp. 3,453,476, 7-1-69, Cl. 313-176.
English, James; Putner, Tony Ian; Watts, John Francis; and Hill, Jeremy Allan, to Edwards High Vacuum International Limited. Apparatus for measuring optical characteristics of coatings on lenses. 3,445,673, 5-20-69, Cl. 250-223.
English, John A.; and Petterson, Tor H. Golf ball ejecting device. 3,467,378, 9-16-69, Cl. 273-34.
English Numbering Machines Limited: *See*—
Bud, Hans, 3,429,008.
Huber, Manfred; and Klimek, Norbert, 3,451,279.
English, Richard A., to Carrier Corporation. Chiller structure for refrigeration system. 3,481,150, 12-2-69, Cl. 62-85.
English Rose Kitchen Limited: *See*—
Marshall, Frederick George; and Ravenscroft, Greville Sandford, 3,448,589.
English, Thomas D., to International Business Machines Corporation. Coupled film storage device. 3,456,247, 0715-69, Cl. 340-174.
English, William A.: *See*—
Carlson, William G.; Moratis, Christy J.; and English, William A.,3,457,052.
English, William David: *See*—
Toy, Madeline S.; Cannon, William A.; English, William David; and Berger, Carl,3,427,207.
English, William J. Window sign hanger. 3,477,757, 11-11-69, Cl. 294-19.
English, William Kirk: *See*—
Bennion, David Ralph; and English, William Kirk,3,435,432.
Bennion, David Ralph; and English, William Kirk,3,435,433.
English, William K., to AMP Incorporated. Odd number magnetic core counter. 3,434,126, 3-18-69, Cl. 340-174.

Englund, Arvid E., Jr., to General Electric Company. Solid-state hybrid. 3,453,395, 7-1-69, Cl. 179-81.
Englund, Gosta R., to Svenska Dataregister AB. Apparatus for the checking of multidigit numbers. 3,477,639, 11-11-69, Cl. 235-61.
Englund, Gosta R.; and Andren, Rolf B., to Svensda Dataregister AB. Register controlled coin dispenser. 3,461,887, 8-19-69, Cl. 133-2.
Englund, Gosta R.; and Mattsson, Mats E., to Svenska Dataregister AB. Tens transfer assembly. 3,420,438, 1-7-69, Cl. 235-137.
Engstrom, Arthur H., to Purolator Products, Inc. Fluid filter element. 3,468,425, 9-23-69, Cl. 210-490.
Engstrom, Carl-Gunnar Daniel: *See*—
Rosdahl, Karl-Gustaf Engelbrekt; Engstrom, Carl-Gunnar Daniel; and Herzog, Paul,3,481,689.
Engstrom, Donald F., to Gorton Machine Corporation. Drawbar for machine tools. 3,481,248, 12-2-69, Cl. 90-11.
Engwall, Richard E.: *See*—
Krynski, John E.; and Engwall, Richard E.,3,477,583.
Enick, James H. Method of manufacturing a protective athletic pad. 3,446,880, 5-27-69, Cl. 264-45.
Enk, Albert T., to Midland-Ross Corporation. Rotary retort furnace. 3,464,683, 9-2-69, Cl. 263-34.
Enke, Gerhard; and Isermann, Heinz, to Meteor-Siegen Apparatebau Paul Schmeck G.m.b.H. Transport system for single sheets of photosensitive material. 3,437,336, 4-8-69, Cl. 271-45.
Enke, Kurt, to Daimler-Benz Aktiengesellschaft. Elastic seal between cylinder and piston. 3,435,733, 4-1-69, Cl. 92-97.
Enke, Kurt, to Daimler-Benz Aktiengesellschaft. Limit abutment for a synchronous sliding joint, especially for motor vehicles. 3,446,035, 5-27-69, Cl. 64-8.
Enkoji, Takashi; and Levine, Edward M., to Armour Pharmaceutical Company. 6-Cycloalkylguanamines, preparations and methods for treating inflammatory conditions therewith. 3,478,026, 11-11-69, Cl. 260-249.9
Enloe, Louis H.; and Rodda, John L., 2nd, to Bell Telephone Laboratories, Incorporated. Phase locked laser oscillator. 3,437,955, 4-8-69, Cl. 331-94.5
E N M Company: *See*—
Wollar, Burnell J., 3,470,361.
Enning, Joseph H., to Sherman Car Wash Equipment Company. Vehicle pushing apparatus. 3,455,250, 7-15-69, Cl. 104-172.
Ennis, Brian Colwell: *See*—
Holan, George; and Ennis, Brian Colwell,3,471,620.
Ennis, Brian Colwell, to Monsanto Chemicals (Australia) Limited. Preparation of 2-(2'-thiazolyl)-benzimidazoles. 3,481,947, 12-2-69, Cl. 260-302.
Ennis, Brian Colwell; and Crocker, Henry Peter, to Monsanto Chemicals (Australia) Limited. Preparation of alkylated 1,10-phenanthrolines. 3,436,395, 4-1-69, Cl. 260-288.
Ennis, Brian Colwell; and Matthews, William Edgar, to Monsanto Chemicals (Australia) Limited. Preparation of phenanthrolines. 3,426,026, 2-4-69, Cl. 260-288.
Samuel, Eva Lea; and Ennis, Brian Colwell,3,479,368.
Ennis, George Thomas. Vehicle washing apparatus. 3,471,883, 10-14-69, Cl. 15-21.
Ennis, James W., to Cole Manufacturing Company. Hinge. 3,439,378, 4-22-69, Cl. 16-159.
Ennis, Thomas E.: *See*—
Reis, John Crittenton; Sommer, Bernard Irving; and Ennis, Thomas E.,3,431,510.
Ennulat, Dietrich F.; and Zollweg, Robert J., to Westinghouse Electric Corporation. Capillary ceramic discharge lamp with closure means therefor. 3,476,969, 11-4-69, Cl. 313-184.
Ennulat, Dietrich F.: *See*—
Zollweg, Robert J.; and Ennulat, Dietrich F.,3,474,277.
Eno, Melbourne J.; and Eno, Wilbur E. Air circulating and heating device. 3,486,002, 12-23-69, Cl. 219-367.
Eno, Wilbur E.: *See*—
Eno, Melbourne J.; and Eno, Wilbur E.,3,486,002.
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa, to Nippon Soda Kabushiki Kaisha. Process for preparation of bis-β-hydroxyethyl) -benzene dicarboxylate. 3,459,788, 8-5-69, Cl. 260-475.
Enomoto, Chiyouzi: *See*—
Orita, Michio; Yahagi, Masakichi; and Enomoto, Chiyouzi,3,442,908.
Enos, Carl E., to Coot, Inc. High traction vehicle. 3,426,720, 2-11-69, Cl. 115-1.
Enos, James H.: *See*—
Von Tress, William R.; and Enos, James H.,3,436,444.
Enos, John F.: *See*—
Hodgdon, Russell B., Jr.; Aiken, Edwin J.; and Enos, John F.,3,423,278.
Hodgdon, Russell B., Jr.; Enos, John F.; and Aiken, Edwin J.,3,442,825.
Enright, Desmond M. Headboards for bedsteads. 3,482,271, 12-9-69, Cl. 5-327.
Enright, James H., to Emerson Electric Co., mesne. Flexible inlet cover. 3,432,108, 3-11-69, Cl. 241-100.
Enright, James H.; and Wicke, Charles A., to Emerson Electric Co., mesne. Waste disposer with stopper actuated switch. 3,425,637, 2-4-69, Cl. 241-32.5
Enright, James H.; and Wicke, Charles A., to Emerson Electric Co., mesne. Comminuting chamber for a waste disposal. 3,464,638, 9-2-69, Cl. 241-100.5
Enserink, Johan, to N.V. Koninklijke Nederlandse Vliegtuigenfabriek. Method of deburring a flat workpiece. 3,435,566, 4-1-69, Cl. 51-328.
Ensign-Bickford Company, The: *See*—
Kelly, Stanley R.; and Smith, John M., 3,435,764.
Ensley, Donald Luther, to Harvest Queen Mill & Elevator Company, mesne. High resolution optical pick-off. 3,432,242, 3-11-69, Cl. 356-116.
Ensley, Donald Luther, to Harvest Queen Mill & Elevator Company, mesne. Ultrasonic angular displacement system and method of balancing the same. 3,446,714, 5-27-69, Cl. 204-15.
Ensley, Earl Edward. Back washing apparatus. 3,478,369, 11-18-69, Cl. 4-158.
Ensmann, Burt W.: *See*—
Lindsay, Kenneth W.; and Ensmann, Burt W.,3,425,154.
Lindsay, Kenneth W.; and Ensmann, Burt W.,3,477,728.
Ensminger, Dale, to Xerox Corporation, mesne. Process of cleaning xerographic plates. 3,483,034, 12-9-69, Cl. 134-1.
Ensor, William L.; and Shaw, Joseph C., to Quaker Oats Company, The. Ruminant feeding. 3,458,625, 7-29-69, Cl. 424-95.
Enssle, Bruno E., to Binks Research and Development Corporation, mesne. Valve. 3,448,961, 6-10-69, Cl. 251-288.
Enssle, Bruno Eugen, to Binks Research and Development Corporation. Hydraulic systems. 3,433,415, 3-18-69, Cl. 239-126.
Ensslin, Kurt; Heinen, Peter; and Rongen, Josef, to Glanzstoff AG. Apparatus for convolution of thread or yarn filaments. 3,460,213, 8-12-69, Cl. 28-1.4
Enstrom, R. J., Corporation: *See*—
Bretl, Robert J., 3,429,198.
Enstrom, Ronald E.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,428,847.
Enstrom, Ronald E.; and Appert, John R., to RCA Corporation. Superconductors. 3,484,208, 12-16-69, Cl. 29-194.
Enterprise Machine and Development Corporation: *See*—
Lubach, John Paul, 3,449,805.
Enterprise Railway Equipment Company: *See*—
Danielson, Worrell M., 3,446,538.
Enters, Edward W., to Gilson Bros. Co. Power take-off for tractor engine. 3,483,763, 12-16-69, Cl. 74-15.63
Enters, Edward W., to Gilson Bros. Co. Vehicle front hitch supported power takeoff. 3,483,938, 12-16-69, Cl. 180-53.
Enthone, Incorporated: *See*—
Bastenbeck, Edwin W.; and Hajdu, Juan, 3,472,664.
Levasseur, Jean Louis, 3,423,296.
Levasseur, Jean Louis, 3,457,146.
Nambride., Raymond F., 3,479,259.
Nambride, Raymond F., 3,484,345.
Saubestre, Edward B.; and Hajdu, Juan, 3,447,974.
Saubestre, Edward B.; and Hajdu, Juan, 3,460,952.
Saubestre, Edward B.; and Emons, William M., Jr., 3,471,313.
Saubestre, Edward B.; and Hajdu, Juan, 3,471,320.
Saubestre, Edward B.; and Durney, Lawrence J., 3,471,376.
Saubestre, Edward B.; and Baker, Edward T., 3,484,270.
Entin, Leonard P. Suspensions for accelerometers and the like. 3,425,282, 2-4-69, Cl. 73-514.
Enting, Jannes, to Werkspoor N.V. Packing devices for sealing the passage of a piston rod through a wall. 3,469,855, 9-30-69, Cl. 277-235.
Entwicklungsring Sud GmbH: *See*—
Kopp, Gerhard, 3,459,460.
Entoleter, Inc.: *See*—
Conley, Kurt H.; and Tenner, Arnold J., 3,430,872.
Guenther, Wolfgang Peter, 3,433,422.
Guenther, Wolfgang Peter, 3,463,313.
Hoskins, Robert J.; and Vecsey, Louis R., 3,452,937.
Kuechler, William L., 3,430,932.
Entreprise de Recherches et d' Activites Petrolieres (E.R.A.P.):*See*—
de Lamballerie, Guy Nicolas, 3,435,663.
Entron, Inc.: *See*—
Lanham, Charles W., Jr., 3,480,311.
Entschel, Roland; Mueller, Curt; and Wehril, Walter, to Sandoz Ltd., a/k/a Sandoz A.G. Basic methine dyestuffs containing a hydrazinium group. 3,457,260, 7-22-69, Cl. 260-240.9
Entschel, Roland; Mueller, Curt; and Wehrli, Walter, to Sandoz Ltd., also known as Sandoz A.G. Basic monoazo dyes. 3,459,728, 8-5-69, Cl. 260-149.
Entwicklungs- und Forschungs-Anstalt: *See*—
Gasser, Adolf; and Ronge, Georg, 3,446,732.
Entwicklungsgesellschaft Eckerfeld KG: *See*—
Chivari, Ilie, 3,426,607.
Entwicklungsring Sud GmbH: *See*—
Broll, Gunter; and Kopp, Gerhard, 3,467,315.
Eberl, Erich, 3,456,497.

Feld, Manfred; Lieser, Herbert; Lincks, Hans; and Stockert, Helmut, 3,446,463.
Haberkorn, Joseph A. Erich; and Lobbecke, Wilhelm F., 3,451,624.
Kopp, Gerhard; and Madelung, Gero Otto, 3,443,758.
Kopp, Gerhard, 3,450,348.
Kopp, Gerhard, 3,460,763.
Madelung, Gero Otto, 3,436,036.
Madelung, Gero Otto, 3,475,906.
Tammel, Karl Vinzenz, 3,438,598.

Entwisle, John Hubert: *See*—
Colchester, John Edward; and Entwisle, John Hubert,3,461,128.
Colchester, John Edward; and Entwisle, John Hubert,3,478,042.
Colchester, John Edward; and Entwisle, John Hubert,3,484,447.
Colchester, John Edward; Entwisle, John Hubert; and Green, Maurice Berkeley,3,464,981.

Entwistle Company, The: *See*—
Minardi, Oresto A.; and Manoogian, Dickran, 3,463,407.

Envelope Conversion Equipment Co.: *See*—
Harper, Calvin L., 3,456,942.

Environ, Inc.: *See*—
Oster, Earl A., 3,429,022.

Envirotech Corporation: *See*—
Davis, Steven S.; Davis, Kent L.; and Brozovich, John C., 3,473,669.
Strader, Don S., 3,466,868.
Winter, Heinz, 3,479,904.

Enya, Choshi; and Hiraoka, Michihiro, to Nihon Gakki Seizo Kabushiki Kaisha. Chord selecting device in electronic organs. 3,422,210, 1-14-69, Cl. 84-1.24

Enyeart, Raymond J.: *See*—
Sackler, Albert A.; and Enyeart, Raymond J.,3,451,284.

Enz, Robert W. Apparatus for excavating tunnels. 3,433,532, 3-18-69, Cl. 299-31.

Enzinger-Union-Werke Aktiengesellschaft: *See*—
Schwinghammer, Gunter, 3,481,480.

Enzlin, Theodoor Henri: *See*—
Wolfrum, Gunther Carl Maximilian Eduard; and Enzlin, Theodoor Henri,3,482,150.

Enzymic Malt Company, Ltd.: *See*—
Dixon, Bernard; and Comrie, Alan A. D., 3,485,720.

Eorgan, James E., to Kawecki Chemical Company. High temperature oxidation resistant articles. 3,431,141, 3-4-69, Cl. 117-135.1

Ephraim, Salim N., to Dow Chemical Company, The mesne. Polythiol composition and preparation thereof. 3,472,913, 10-14-69, Cl. 260-830.

Epic Pools Corporation: *See*—
Gabrielli, Donald P.; and Chillino, Joseph, 3,447,168.

Epifanio, Joseph, Sr. Fuel-line system for an internal-combustion engine. 3,433,608, 3-18-69, Cl. 48-180.

Episcopo, Harry. Bird feeding fixture. 3,482,549, 12-9-69, Cl. 119-51.

Epler, Hans: *See*—
Lenz, Arnold; Hass, Karl; and Epler, Hans,3,460,906.

EPM International: *See*—
Colnot, Raymond Marcel Emile, 3,450,280.
Martinet, Christian Jacques Emile Joseph, 3,420,981.

EPM Manufacturing Co., Ltd.: *See*—
Martens, David, 3,461,722.

Epp, David A., to Henderson Manufacturing Co., Inc. Irrigation pipe gate arrangement. 3,455,533, 7-15-69, Cl. 251-145.

Epp, Kurt, to Siemens Aktiengesellschaft. Miniature electric motor. 3,448,309, 6-3-69, Cl. 310-51.

Eppe, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Laminated magnetic head for effecting checkerboard pattern magnetization of a magnetic material. 3,441,884, 4-29-69, Cl. 335-284.

Eppenberger, Paul, to Gebruder Buhler AG. Apparatus for marking and filling sacks. 3,431,699, 3-11-69, Cl. 53-67.

Eppenberger, Paul, to Buhler, Gebruder. Dough molding press. 3,457,880, 7-29-69, Cl. 107-14.

Eppendahl, Pierre Charles; and Maurin, Pierre, to Thermiguides S.A. Thread tensioning apparatus. 3,478,983, 11-18-69, Cl. 242-154.

Epperly, William R.; Read, Chester L.; and Lorenz, Maurice G., to Esso Research and Engineering Company. Adsorption of naphthenes with a strontium type X molecular sieve. 3,468,791, 9-23-69, Cl. 208-310.

Epperly, William R.: *See*—
Robertson, Jerry L.; and Epperly, William R.,3,476,822.

Eppinger, Hermann: *See*—
Stumpf, Gunter O.; Lange, Erwin; and Eppinger, Hermann,3,452,671.

Epple, Richard: *See*—
Gerstner, Dieter; Ehlbeck, Heinz-Wilhelm; and Epple, Richard,3,462,656.

Eppler, Arthur H. Method for wet abrasive blasting. 3,447,272, 6-3-69, Cl. 51-319.

Eppler, Arthur H. Abrasive blast system with closed circuit rinse. 3,455,062, 7-15-69, Cl. 51-8.

Eppler, Daniel, to Thomas & Betts Co., The. Strap applying tool. 3,433,275, 3-18-69, Cl. 140-93.2

Eppler, Walter T., to Western Electric Company, Incorporated. Method and apparatus for calibrating a cable measuring device. 3,436,954, 4-8-69, Cl. 73-1.

Epply, William R. Folding sports screen. 3,456,945, 7-22-69, Cl. 273-29.

Eprad Incorporated: *See*—
Boudouris, Angelo, 3,467,762.

Eprova Limited: *See*—
Suter, Hans; and Zutter, Hans, 3,435,066.

Epshtein, Mikhail Grigorievich: *See*—
Abdullaev, Gasan Mamed Bagir Ogly; Nani, Rakhim Khasan; Nasirov, Yadulla Nusrat Ogly; Kuliev, Arif Zulfigarovich; Epshtein, Mikhail Grigorievich; and Kochkarev, Vladimir Ilich,3,472,652.

Epsteen, Peter: *See*—
Gallo, Louis J., 3,435,645.

Epstein, Barry M., to Bell Telephone Laboratories, Incorporated. Dial pulse transient detector. 3,428,756, 2-18-69, Cl. 179-84.

Epstein, David: *See*—
Epstein, Sidney; and Epstein, David,3,451,039.
Spector, Sanford; and Epstein, David,3,425,744.

Epstein, Hans Georg: *See*—
Macintosh, Robert Reynolds; and Epstein, Hans Georg,3,483,866.

Epstein, Harry T. Sandwich holder. 3,446,416, 5-27-69, Cl. 229-31.

Epstein, Harry: *See*—
Romanzi, Louis, Jr.; and Epstein, Harry,3,425,034.

Epstein, Henry David, to Texas Instruments Incorporated. Thermostatic snap-acting switch. 3,431,527, 3-4-69, Cl. 337-347.

Epstein, Henry David, to Texas Instruments, Incorporated. Insulated electrical conductors. 3,435,401, 3-25-69, Cl. 338-214.

Epstein Herbert R.: *See*—
Bullwinkel, Bernhard A.; Epstein Herbert R.; and Olson, William P.,3,441,941.

Epstein, Herman. Pouring handle for milk cartons. 3,427,065, 2-11-69, Cl. 294-33.

Epstein, Herman; and Benn, Robert E., to Burroughs Corporation. Recording medium and process of developing latent electrostatic image on a recording medium. 3,441,437, 4-29-69, Cl. 117-17.5

Epstein, Joseph: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,452,423.

Epstein, Julius,: *See*—
Ulert, Izaak A., 3,480,228.

Epstein, Martin E.; and Jamison, Saunders E., to Celanese Corporation. Method of filtering tobacco smoke. 3,461,882, 8-19-69, Cl. 131-262.

Epstein, Martin: *See*—
Buckler, Sheldon; and Epstein, Martin,3,454,650.

Epstein, Martin; Buckler, Sheldon A.; Sherr, Allan Ellis; and Gillham, Helen Currier, to American Cyanamid Company. Composition comprising a thermoplastic polymer and the reaction product of phosphorus and a polyamine. 3,459,833, 8-5-69, Cl. 260-893.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert,3,435,008.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert,3,442,871.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert,3,457,280.

Epstein, Michael: *See*—
Cooper, Charles W.; and Epstein, Michael,3,437,541..

Epstein, Philip L., to Quindar Electronics, Inc. Power supply with novel ripple control. 3,486,104, 12-23-69, Cl. 321-10.

Epstein, Roman Iosifovich: *See*—
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.

Epstein, Saul, to American Metal Products Corporation. Spring biased tapered plug valve. 3,459,405, 8-5-69, Cl. 251-181.

Epstein, Sidney; and Epstein, David, to Vadys Associates, Ltd. Underwater electro-sonic communication systems and apparatus. 3,451,039, 6-17-69, Cl. 340-5.

Epsylon Research and Development Company Limited: *See*—
Findeisen, Heinz Helmuth, 3,460,782.
Gray, Michael Richard, 3,461,429.
Hounsome, Graham John, 3,466,462.

Eptex Mfg., Corporation: *See*—
Epton, Jerome W., 3,456,373.

Epton, Jerome W., to Eptex Mfg., Corporation. Decorative magnetic bulletin board. 3,456,373, 7-22-69, Cl. 40-124.

Equipment Manufacturing, Inc.: *See*—
Galloway, Victor A., 3,433,372.

Equitable Paper Bag Co., Inc.: *See*—
Canno, Leonard E.; and Grob, William H. F., 3,447,736.
Canno, Leonard E.; and Grob, William H. F., 3,464,620.

Equito Electronics Corporation: *See*—
Fay, Lawrence J., 3,462,980.

Eramo, Anthony J. Carpet fastening tool. 3,464,731, 9-2-69, Cl. 294-8.6

Erard, Raoul-Henri. Method of making a bearing. 3,438,109, 4-15-69, Cl. 29-149.5

Erasumus, Albert: *See—*
Sohn, August Wilhelm; and Erasumus, Albert,3,480,478.

Erath, Louis W., to Test Equipment Corporation. Method and apparatus for in-circuit semiconductor characteristic measurements by establishing a predetermined voltage across the semiconductor and an externally connected impedance. 3,445,769, 5-20-69, Cl. 324-158.

Erath, Louis W. Sound reproduction compensation system. 3,449,518, 6-10-69, Cl. 179-1.

Erath, Louis W.; and Badger, Algernon S., to Tideland Signal Corporation. Circuit for conserving battery power by eliminating the third harmonic of an electrical square wave. 3,424,989, 1-28-69, Cl. 328-165.

Erato, Vincent A.: *See—*
Marek, Joseph G.; and Erato, Vincent A.,3,469,908.

Erb, Ernst. Apparatus for continuously treating a yarn. 3,426,553, 2-11-69, Cl. 68-5.

Erb, George H.; Horenburger, William E.; Sanguinetti, Bradley E.; and Hayden, Edward F., to General Bearing Company, Inc. Conduit roller bearing. 3,441,189, 4-29-69, Cl. 226-189.

Erb, Gerhard; and Britzke, Ingo, to Wegmann & Co. Swingable sliding car door assembly. 3,484,993, 12-23-69, Cl. 49-216.

Erb, Robert A., to United States of America, Interior. Method for improving heat transfer in condensers. 3,466,189, 9-9-69, Cl. 117-132.

Erba, Carlo, S.p.A.: *See—*
Lauria, Francesco; Giraldi, Pier Nicola; Francavilla, Pier Nicola; Nannini, Giuliano; and Logemann, Willy, 3,452,085.

Erbach, Arthur R., to Beckman Instruments, Inc. Valve means. 3,424,198, 1-28-69, Cl. 137-583.

Erbb, Ruth C.Women's rain hood. 3,460,163, 8-12-69, Cl. 2-204.

Erben, Dietrich, to Swiss Aluminium Ltd. Apparatus for the surface treatment of work-pieces by electrical discharges. 3,483,374, 12-9-69, Cl. 250-49.5

Erbor, Stanley E., to Royal Appliance Manufacturing Co., Inc. Suction cleaner nozzle construction. 3,437,424, 4-8-69, Cl. 21-127.

Erbor, Stanley E., to Royal Appliance Manufacturing Co., Inc. Suction cleaner nozzle construction. 3,444,582, 5-20-69, Cl. 15-324.

Erby, William A.; Erner, William E.; Skaptason, Johann S.; and Walde, Robert A., to Air Products and Chemicals, Inc. Method of harvesting cotton. 3,472,004, 10-14-69, Cl. 56-1.

Erchak, Michael, Jr.; Carrock, Frederick E.; and Koch, Karl F., to Dart Industries Inc. Rubber-modified resinous polymers prepared in the presence of a polyphenylene oxide. 3,487,127, 12-30-69, Cl. 260-876.

Erck, Richard K. Sash plug. 3,432,883, 3-18-69, Cl. 16-197.

Ercole, Pietro: *See—*
Dakli, Ibrahim; Ercole, Pietro; and Jacobelli, Franco,3,423,411.

Ercoli, Nicholas, to Robins, A. H., Company, Incorporated. Derivatives of dialkyl-cysteines and allied compounds. 3,466,312, 9-9-69, Cl. 260-440.

Erdco Engineering Corporation: *See—*
Archer, Lee A.; and Peterman, Russel S., 3,484,773.

Erde, Bernard: *See—*
Goldmark, Peter C.; and Erde, Bernard,3,475,549.

Erdkamp, Michael L.: *See—*
Gassaway, Lee V.; and Erdkamp, Michael L.,3,478,222.

Erdle, Jack A. Flexible bus bar. 3,459,880, 8-5-69, Cl. 174-117.

Erdle, Jack A. Laminated electrical bus bar. 3,476,871, 11-4-69, Cl. 174-88.

Erdley, Harold F.; Lipman, Jerome S.; and Shapiro, Sidney, to Litton Systems, Inc. Vibra-rotor gyroscopes. 3,463,016, 8-26-69, Cl. 74-5.4

Erdley, Harold R. Envelope opening device. 3,476,043, 11-4-69, Cl. 83-575.

Erdman, Charles A., to Venus Esterbrook Corporation. Recorder having stylus pressure adjustment assembly. 3,434,159, 3-18-69, Cl. 346-139.

Erdman, Leon Paul, to Deere & Company. Belt drive apparatus for tractor-mounted implement. 3,465,607, 9-9-69, Cl. 74-227.

Erdman, Robert J., to Keithley Instruments, Inc. Low level D. C. voltage apparatus employing a balanced modulator and filter means to remove spurious signals. 3,424,981, 1-28-69, Cl. 324-118.

Erdman, Wiliam C.: *See—*
Androshuk, Alex; Bergh, Arpad A.; and Erdman, Wiliam C.,3,424,661.

Erdman, William C.: *See—*
Androshuk, Alex; Bergh, Arpad A.; and Erdman, William C.,3,484,358.

Erdmann, Dietrich: *See—*
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart,3,452,076.
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst,3,476,545.

Erdmann, Fritz: *See—*
Steppan, Hartmut; Erdmann, Fritz; Messwarb, Gunter; and Luders, Walter,3,484,239.

Erdmann, Fritz; and Uhlig, Fritz, to Kalle Aktiengesellschaft. Emulsion lacquer containing alkyl/phenol resin for the after-treatment of developed planographic printing plates. 3,459,128, 8-5-69, Cl. 101-466.

Erdmann, Hans, to Teves, Alfred GmbH. Hydraulic accumulator with composite elastic diaphragm. 3,442,293, 5-6-69, Cl. 138-30.

Erdmann, Helmut: *See—*
Waschulewski, Hans-Georg; Erdmann, Helmut; and Laimann, Gunther,3,486,427.

Erdmann, Kurt; Nerlick, Lydia, curatrix; Fischer, Claus; Friedenrich, Heinrich; and Bauer, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Piston for high-pressure compressors. 3,481,255, 12-2-69, Cl. 92-258.

Erdmann, Otto: *See—*
Kochalski, Horst; Rudszinat, Willy; Suck, Hans; Rode, Ludwig; David, Harri; and Erdmann, Otto,3,481,447.

Erdmann, Piers Kaspar, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Circuit arrangement to integrate voltages or currents. 3,477,035, 11-4-69, Cl. 330-104.

Erdmann, Raymond: *See—*
Richter, Carl; and Erdmann, Raymond,3,444,056.

Erdmenger, Rudolf: *See—*
Walaschewski, Engelbert; Steinbach, Hans-Horst; Oetke, Walter; and Erdmenger, Rudolf,3,423,842.

Erdos, Emerich; and Bares, Jiri, to Ceskoslovenska akademie ved. Method and apparatus for continuously determining the oxygen content of gases. 3,432,404, 3-11-69, Cl. 204-1.

Erf, Robert K.; Wingfield, Edward C.; and Aas, Herbert G., to United Aircraft Corporation. Angle sensing system using a diverging- converging scan. 3,480,368, 11-25-69, Cl. 356-172.

Ergenc, Sahabettin, to Sulzer Brothers Limited. Production of cold neutrons. 3,470,065, 9-30-69, Cl. 176-39.

Ergun, Sabri; and Berman, Martin, to United States of America, Interior. Separation method. 3,463,310, 8-26-69, Cl. 209-8.

Erhard, Albert E.: *See—*
Fredrickson, Robert E.; and Erhard, Albert E.,3,441,403.

Erhard, Eugen Adolf: *See—*
Starp, Franz W. R.; Richter, Carl Fritz; and Erhard, Eugen Adolf,3,460,454.

Erhardt, John E.; Hirtle, Kenneth S.; and Osterman, Harry F., to Branson Instruments Incorporated. Conveyor system. 3,425,533, 2-4-69, Cl. 198-19.

Erhardt, Peter F.: *See—*
Holoch, Klaus E.; Erhardt, Peter F.; and Benner, Kenneth W.,3,465,062.

Erhardt, William A., Jr.: *See—*
Bachman, Walter S., Jr.; Erhardt, William A., Jr.; and Surprenant, Edward V.,3,461,765.

Erich Herion Sen.: *See—*
Baldi, Otello, 3,481,578.

Erickson, Albin R., to Textron Inc., mesne. Snowmobile belt drive sprocket wheel construction. 3,483,766, 12-16-69, Cl. 74-243.

Erickson, Allen M., to United States of America, Navy. On call switching system for laser. 3,483,482, 12-9-69, Cl. 331-94.5

Erickson, Arnold R., to Consolidation Coal Company, mesne. Apparatus for agglomerating carbonaceous materials. 3,460,195, 8-12-69, Cl. 18-1.

Erickson, Charles Aldor. Standing fixture for bicycle passenger. 3,484,829, 12-16-69, Cl. 280-291.

Erickson, Clifford E., to General Electric Company. Gas burner with captured shutter. 3,436,166, 4-1-69, Cl. 431-354.

Erickson, Clifford E., to General Electric Company. Gas burner. 3,477,798, 11-11-69, Cl. 431-263.

Erickson, Donald G.: *See—*
Price, Warren H.; and Erickson, Donald G.,3,462,924.

Erickson, Donald G.: *See—*
Price, Warren H.; and Erickson, Donald G.,3,462,924.

Erickson, Donald O. Concrete wall and wall panel construction. 3,432,978, 3-18-69, Cl. 52-227.

Erickson, Donald W.; and Thornber, Ernest C. Electro hydraulic servo mechanism. 3,473,548, 10-21-69, Cl. 137-85.

Erickson Electrical Equipment Co.: *See—*
Erickson, John W., 3,441,699.

Erickson, Ernest A., to Modine Manufacturing Company. Electronic control. 3,427,818, 2-18-69, Cl. 62-140.

Erickson, George Duncan, to Dolan-Jenner Industries, Inc. Fiber optic sensing, for example, of loom bobbins. 3,459,240, 8-5-69, Cl. 139-273.

Erickson, George F., to United States of America, Atomic Energy Commission. Heat actuated control rod utilizing a cadmium-potassium mixture. 3,464,889, 9-2-69, Cl. 176-86.

Erickson, Goffe J.; and Korzenowski, Stanley J., to Honeywell Inc. Dental handpiece. 3,451,134, 6-24-69, Cl. 32-28.

Erickson, Gustav F., to National Rejectors, Inc. Milled edge coin tester. 3,429,413, 2-25-69, Cl. 194-97.

Erickson, Gustav F., to National Rejectors, Inc. Coin-handling device. 3,454,146, 7-8-69, Cl. 194-97.

Erickson, Harry W., to Norton Company. Pad holder and driver. 3,462,889, 8-26-69, Cl. 51-380.

Erickson, Henry; and Johnson, Marvin F. L., to Sinclair Research, Inc. Crystalline aluminosilicate-containing catalyst and methods of treating and using same. 3,428,550, 2-18-69, Cl. 208-120.
Erickson, Henry; and Russell, Howard G., to Sinclair Research, Inc. Method of preparing crystalline aluminosilicate catalytic composites. 3,457,191, 7-22-69, Cl. 252-455.
Erickson, Howard L.: *See—*
Huley, William G.; Erickson, Howard L.; and Hanna, John W.,3,429,552.
Erickson, Howard L., to Dole Valve Company, The. Adjustable flow control. 3,422,842, 1-21-69, Cl. 137-504.
Erickson, Howard L., to Dole Valve Company, The. Reversible flow control device. 3,444,897, 5-20-69, Cl. 138-45.
Erickson, Howard L., to Dole Valve Company, The. Single-inlet, double-outlet valve. 3,480,040, 11-25-69, Cl. 137-608.
Erickson, Howard L.; and McCarty, William R., Jr., to Dole Valve Company, The. Solenoid actuator device. 3,456,836, 7-22-69, Cl. 220-35.
Erickson, James O.: *See—*
Blatz, Paul E.; and Erickson, James O.,3,475,515.
Erickson, John M.; and Fairweather, John, to United States of America, Navy. Circuit for surge current testing of silicon controlled rectifiers. 3,421,085, 1-7-69, Cl. 324-158.
Erickson, John W., to Erickson Electrical Equipment Co. Arc control apparatus for load break switches. 3,441,699, 4-29-69, Cl. 200-144.
Erickson, John W., to Preco, Inc. Cooling of dynamoelectric machines. 3,441,757, 4-29-69, Cl. 310-62.
Erickson, John W., to Preco, Inc. Air-cooled dynamoelectric machine. 3,445,696, 5-20-69, Cl. 310-59.
Erickson, John W.; Konrad, Marion G.; and McCloud, James, to Preco Incorporated. Suspension and locking mechanism for load dividing gate. 3,464,369, 9-2-69, Cl. 105-376.
Erickson, Karl H., to Amerock Corporation. Latching mechanism with temperature-responsive blocking device. 3,438,666, 4-15-69, Cl. 292-210.
Erickson, Karl H., to Amerock Corporation. Appliance latch. 3,476,424, 11-4-69, Cl. 292-66.
Erickson, Keith D. Game device for forming and throwing snowballs. 3,472,217, 10-14-69, Cl. 124-5.
Erickson, Leonard A.: *See—*
Wise, Robert T.; and Erickson, Leonard A.,3,487,443.
Erickson, Lowell H.: *See—*
Fogelberg, Clement V.; and Erickson, Lowell H.,3,466,704.
Erickson, Paul N.: *See—*
Jordan, Richard J.; and Erickson, Paul N.,3,445,669.
Erickson, Porter W., to United States of America, Navy. Porous plastic. 3,473,985, 10-21-69, Cl. 156-24.
Erickson, Porter W.; and Kinna, Marlin A., to United States of America, Navy. Method of forming a filament wound plastic body. 3,440,120, 4-22-69, Cl. 156-162.
Erickson, Raymond A., to Varian Associates. Mass spectrometer ion source having two filaments each alternately acting as emitter and collector. 3,423,584, 1-21-69, Cl. 250-41.9
Erickson, Raymond A., to Varian Associates. Pivotable mount for electric field electrodes of a cycloidal mass spectrometer. 3,439,162, 4-15-69, Cl. 250-41.9
Erickson, Raymond A., to Varian Associates. Electrically adjustable beam defining slits and mass spectrometers using same. 3,469,094, 9-23-69, Cl. 250-41.9
Erickson, Raymond A.; and Brown, Harmon W., to Varian Associates. Electrically adjustable slits and mass spectrometers using same. 3,433,945, 3-18-69, Cl. 250-41.9
Erickson, Robert E.; and Wittbrodt, Edwin L., to Dow Chemical Company, The. Aqueous dispersion of an admixture of a high and low styrene latex, a melamine-formaldehyde resin and an inorganic filler, and method of forming same. 3,440,184, 4-22-69, Cl. 260-2.5
Erickson, Robert G.: *See—*
Goshorn, Larry A.; Harmon, Sherril A.; and Erickson, Robert G.,3,470,537.
Erickson, Robert J.: *See—*
Buenger, George L.; and Erickson, Robert J.,3,471,701.
Ricketts, Luther W., Jr.; Buenger, George L.; and Erickson, Robert J.,3,471,838.
Ricketts, Luther W., Jr.; Stalcup, Robert E.; and Erickson, Robert J.,3,449,711.
Erickson Robert L. Knife. 3,439,420, 4-22-69, Cl. 30-294.
Erickson, Roger D., to Honeywell Inc. Photographic apparatus. 3,442,190, 5-6-69, Cl. 95-10.
Erickson Tool Company: *See—*
Benjamin, Milton L.; and Walker, David D., 3,420,538.
Benjamin, Milton L.; and Walker, David D., 3,421,770.
Benjamin, Milton L.; and Walker, David D., 3,425,705.
Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N., 3,434,376.
Benjamin, Milton L.; and Walker, David D., 3,439,458.
Benjamin, Milton L.; and Walker, David D., 3,443,819.
Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N., 3,454,283.
Benjamin, Milton L.; and Walker, David D., 3,466,681.
Erickson, Victor. Safety cover for valves. 3,428,296, 2-18-69, Cl. 251-337.
Erickson, Wallace R.; and Whitcomb, John G., to Cooper's Incorporated. Abdominal scultetus. 3,486,501, 12-30-69, Cl. 128-96.
Ericksson, George J.: *See—*
Courtois, Peter D.; and Ericksson, George J.,3,420,014.
Ericson, Alvin E., to Union Carbide Corporation. Flexible bag for packaging food items. 3,441,198, 4-29-69, Cl. 229-53.
Ericson, Richard E., to Kendall Company, The. Inflatable splint. 3,424,151, 1-28-69, Cl. 128-87.
Ericson, Richard E., to Kendall Company, The. Self-venting drainage system for body fluids. 3,429,314, 2-25-69, Cl. 128-349.
Ericson, Richard E., to Kendall Company, The. Drainage device with shielded drainage orifice. 3,435,827, 4-1-69, Cl. 128-349.
Ericson, Richard E., to Kendall Company, The. Non-traumatic retention catheter. 3,438,375, 4-15-69, Cl. 128-349.
Ericson, Richard E., to Elliot Laboratories Inc. Closed urinary drainage system. 3,478,743, 11-18-69, Cl. 128-275.
Ericson, Richard E.; and McWhorter, Daniel M., to Kendall Company, The. Easy deflatable retention catheter. 3,482,576, 12-9-69, Cl. 128-349.
Ericsson, Arvid I., to Signode Corporation. Combination strap tensioning and sealing tool. 3,442,734, 5-6-69, Cl. 156-73.
Ericsson, Eric R., to Telefonaktiebolaget L M Ericsson. Push button switch. 3,433,914, 3-18-69, Cl. 200-159.
Ericsson, Gunnar Arthur: *See—*
Sellman, Ulf Carl Iwar; and Ericsson, Gunnar Arthur,3,476,208.
Ericsson, Hans T.: *See—*
Faxen, Per Torsten; and Ericsson, Hans T.,3,474,704.
Ericsson, Samuel S. Cart for pavement breaker. 3,481,649, 12-2-69, Cl. 299-37.
Ericsson Telephones Limited: *See—*
Mathews, George A., 3,482,043.
Erie Development Company: *See—*
Williams, Charles J., 3,483,976.
Erie Foundry Company: *See—*
Cornberg, Heinz, 3,461,515.
Erie Packaging Corp.: *See—*
Gonsalves, George E.; and Dosso, Felice, 3,423,113.
Erie Strayer Company: *See—*
O'Connell, Daniel J., 3,421,744.
Erie Technological Products, Inc.: *See—*
Bertics, John P.; and Royall, Robert L., Jr., 3,472,272.
Coda, Nello, 3,444,436.
Myers, Arthur L., 3,449,614.
Ruffner, Lawrence J., 3,467,898.
Wilson, Donald J., 3,467,849.
Erie Technological Products Limited: *See—*
Cole, Bernard Arthur, 3,484,842.
Eriez Magnetics: *See—*
Benson, William H.; and Falconer, Thomas H., 3,448,857.
Eriez Manufacturing Co.: *See—*
Merwin, Robert F.; and Weiss, Fred W., 3,476,232.
Eriez Manufacturing Company: *See—*
Israelson, Arlo F., 3,452,310.
Israelson, Arlo F.; and Tenpas, Emerson J., 3,454,913.
Eriksen, Jan Bergh, to Trio Fabrikker A/S De Forenede Norske Laase-Og Beslagfabriker. Device for use in connection with a fish-canning machine. 3,451,191, 6-24-69, Cl. 53-142.
Eriksen, Odd, to Sentralinstitutt for Industriell Forskning. Electromechanical transducer for tensile, pressure and acceleration measurements. 3,474,681, 10-28-69, Cl. 73-141.
Eriksen, Richard E.: *See—*
Carter, Thomas A., 3,487,241.
Erikson, Alden J.; and Christenson, Roger M., to PPG Industries, Inc. Aqueous coating compositions comprising a salt of a heat-bodied maleinized oil and a polymeric latex. 3,422,044, 1-14-69, Cl. 260-23.7
Erikson, Carl Reinhold: *See—*
Columbus, Peter Spiros; and Erikson, Carl Reinhold,3,442,845.
Erikson, Herman E., to Polaroid Corporation. Photographic products and processes. 3,433,950, 3-18-69, Cl. 250-65.
Erikson, Herman E.; Brackett, Robert D.; and Young, Phillip E., to Polaroid Corporation. Radiographic apparatus for inserting an intensify- ing screen into a self-processing photographic film pack. 3,462,599, 8-19-69, Cl. 250-66.
Erikson, Robert W., to Sundstrand Corporation. Fuel reguling valve. 3,446,232, 5-27-69, Cl. 137-117.
Eriksson, Bengt Gosta. Inclinometer for a rock drilling machine. 3,469,322, 9-30-69, Cl. 33-215.
Eriksson, Carl A., to Norse Development Corporation. Slip-form apparatus for tapered piers. 3,425,659, 2-4-69, Cl. 249-18.
Eriksson, Egon Ake Lennart, to Ursvikens Mekaniska Verkstads AB. Devices for bottom stroke stop in hydraulic edge presses. 3,429,156, 2-25-69, Cl. 72-26.
Eriksson, Elof Erik, to Telefonaktiebolaget L M Ericsson. Apparatus for error correction in a data transmission system. 3,460,090, 8-5-69, Cl. 340-146.1
Eriksson, Erik Helmer; Frisk, Olof Edvin; and Hogberg, Lars-Gunnar, to Mo Och Domsjo Aktiebolag. Sawing apparatus. 3,443,610, 5-13-69, Cl. 143-57.

Eriksson, Ernst Axel Harald. Valve mechanism. 3,472,263, 10-14-69, Cl. 137-116.
Eriksson, Folke. Foldable game board with game piece seating and storing means. 3,462,150, 8-19-69, Cl. 273-131.
Eriksson, George J.: *See*—
Courtois, Peter D.; and Eriksson, George J.,3,431,012.
Eriksson, John Thorbjorn; and Moller, Birger Torsten Arne, to Alfa-Laval AB. Sludge-separating centrifuge. 3,447,742, 6-3-69, Cl. 233-7.
Eriksson, Karl Ake: *See*—
Mundt-Petersen, Just Henrik; and Eriksson, Karl Ake,3,431,016.
Eriksson, Karl-Axel; and Tveteras, Martin, to Allmanna Svenska Elektriska Aktiebolaget. Protection means for single-phase capacitor banks. 3,486,073, 12-23-69, Cl. 317-12.
Eriksson, Kjell Karl-Axel; Lindblad, Sven Erland Gustav; and Lindeberg, Bengt Gosta, to Allmanna Svenska Elektriska Aktiebolaget. Converter with compensation for DC magnetization. 3,470,450, 9-30-69, Cl. 321-16.
Eriksson, Ragnar. Countersinking and counterboring tools. 3,444,766, 5-20-69, Cl. 77-73.5
Eriksson, Sven Axel: *See*—
Lundin, Ingvar Oskar Wallentin; and Eriksson, Sven Axel,3,468,419.
Eriksson, Sven-Erik Nore, to Atlas Copco Aktiebolag. Shovel loaders. 3,443,704, 5-13-69, Cl. 214-131.
Erke, Frederick C. Enclosure for a flatbed trailer or truck body. 3,433,470, 3-18-69, Cl. 296-28.
Erker, Joseph W.: *See*—
Menefee, Julious M.; and Erker, Joseph W.,3,426,195.
Erkkila, John G. Trap type fishhook device. 3,470,646, 10-7-69, Cl. 43-15.
Erlandson, Paul M., to Continental Can Company, Inc. . 3,420,079, 1-7-69, Cl. 72-56.
Erlandson, Paul M., to Continental Can Company, Inc. Welded can body and method of forming the same. 3,468,453, 9-23-69, Cl. 220-75.
Erlandson, Paul M.; and Howeler, Warren F., to Continental Can Company, Inc. Container fabrication means utilizing an electron beam. 3,440,392, 4-22-69, Cl. 219-124.
Erlandsson, Karl Gunnar, to Aktiebolaget Bandindustri. Arrangement in a winding machine for soft ribbon. 3,474,979, 10-28-69, Cl. 242-61.
Erlbach, Erich, to International Business Machines Corporation. Alteration of transmittance in solids. 3,427,091, 2-11-69, Cl. 350-149.
Erlbacher, Robert W. Concrete-reinforced steel vessel construction. 3,437,068, 4-8-69, Cl. 114-65.
Erlebach, Richard. Heel release device for safety ski bindings. 3,455,568, 7-15-69, Cl. 280-11.35
Erler, Gerhard: *See*—
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Erler, Heinz; Reher, Bernhard; and Hopp, Hartwig, to VEB Fernsehgeratewerke Stassfurt. Transistor oscillator with strip-conductor interstage coupling. 3,483,483, 12-9-69, Cl. 331-99.
Erler, Werner G.; and Gerber, Siegfried. Fire extinguishing process and method. 3,464,921, 9-2-69, Cl. 252-2.
Erlewine, Richard H.: *See*—
Richter, Charles W., III; and Erlewine, Richard H.,3,431,409.
Erlich, Ralph R.: *See*—
Aaron, Jack, 3,477,089.
Erlichman, Irving, to Polaroid Corporation. Extensible camera. 3,479,941, 11-25-69, Cl. 95-39.
Erline, Dexter Wyman: *See*—
Lynch, James Edward; Erline, Dexter Wyman; and Morehart, Ronald Charles,3,444,504.
Erman, William F., to Procter & Gamble Company, The. Rearrangement of chrysanthenone. 3,420,886, 1-7-69, Cl. 260-586.
Erman, William F.: *See*—
Gibson, Thomas W.; and Erman, William F.,3,481,998.
Lewis, Ronald G.; and Erman, William F.,3,478,114.
Ermanco Incorporated: *See*—
Hammond, Theodore A.; and Summers, John D., 3,468,408.
Paulsen, John D., 3,465,870.
Ermanis, Felix; and Schwartz, Bertram, to Bell Telephone Laboratories, Incorporated. Method for forming alloy contacts to gallium arsenide. 3,484,312, 12-16-69, Cl. 148-182.
Ermenc, Eugene D.; and Smith, Marion F., to Philip Carey Corporation, mesne. Asbestos millboard conveyor rolls for high temperature use. 3,456,931, 7-22-69, Cl. 263-6.
Ermer, Joseph W., Jr.; and Kesler, William C., to Crown Cork & Seal Company, Inc. Capping apparatus for accommodating bottles with and without bumper rolls. 3,461,649, 8-19-69, Cl. 53-201.
Ernault-Somua, H.: *See*—
Berly, Marcel H., 3,427,906.
Berly, Marcel Henri, 3,472,104.
Erneman, Hans G.; and Spranger, Alfred F. Energy dissipater for safety belt assembly. 3,462,191, 8-19-69, Cl. 297-385.
Erner, William E., to Air Products and Chemicals, Inc. Supported metal cyanide catalyst. 3,472,788, 10-14-69, Cl. 252-438.
Erner, William E.: *See*—
Erby, William A.; Erner, William E.; Skaptason, Johann S.; and Walde, Robert A.,3,472,004.
Ernest, Alan W.: *See*—
Lapin, Ellis E.; Ernest, Alan W.; and Sollow, Philip A.,3,427,200.
Ernest, Frances H. Manicure means. 3,480,020, 11-25-69, Cl. 132-88.5
Ernest, Richard B.; and Swanstrom, Kenneth A., to Penn Engineering & Manufacturing Corporation. Automated machine or press for assembling a fastener to a work piece. 3,465,410, 9-9-69, Cl. 29-208.
Ernest, Richard B.; and Swanstrom, Kenneth A., to Penn Engineering & Manufacturing Corporation. Captive screw device and a method for securing together the parts thereof. 3,465,803, 9-9-69, Cl. 151-69.
Ernest, Richard B.; Swanstrom, Kenneth A.; and Davenport, Richard M., to Penn Engineering and Manufacturing Corporation. Gate for an automated fasteners press. 3,452,418, 7-1-69, Cl. 29-211.
Ernest, Robert P.; and York, Roy W., to Ford Motor Company. Shell mold and process for shell molding. 3,472,310, 10-14-69, Cl. 164-137.
Erni, Edoardo: *See*—
Baumann, Hans; Erni, Edoardo; and Horvath, Attila,3,462,159.
Ernick, Fred G.: *See*—
Tarneja, Krishan S.; Ernick, Fred G.; and Rossi, Vito A.,3,460,240.
Ernick, Frederick G.: *See*—
Kisinko, Paul M.; and Ernick, Frederick G.,3,460,009.
Ernisse, Paul Justen, to Eastman Kodak Company. Automatic exposure control for cameras. 3,482,497, 12-9-69, Cl. 95-10.
Ernsberger, Fred M., to PPG Industries, Inc. Method for making radiation induced crystallized glass. 3,454,386, 7-8-69, Cl. 65-33.
Ernst, Adolphe Otton Gontier: *See*—
Marchal, Raymond Hippolyte Firmin; Colombani, Don Pierre Louis Jean; and Ernst, Adolphe Otton Gontier,3,486,718.
Ernst, Donald E., to Revell, Incorporated. Racing game apparatus. 3,467,311, 9-16-69, Cl. 238-10.
Ernst, Donald W.: *See*—
Pasnak, Michael; and Ernst, Donald W.,3,424,007.
Ernst, Eric O.; Hurd, Donald J.; and Seeley, Gerard, to International Business Machines Corporation. High capacity epitaxial apparatus and method. 3,424,629, 1-28-69, Cl. 148-175.
Ernst, Hans. Combined cane and leg rest device. 3,443,569, 5-13-69, Cl. 135-47.
Ernst, Hans. Flow control apparatus for fluent magnetic materials. 3,485,254, 12-23-69, Cl. 137-81.5
Ernst Heinkel Aktiengesellschaft: *See*—
Eggstein, Giorgio, 3,478,519.
Ernst, Heinz: *See*—
Winkler, Alfred; and Ernst, Heinz,3,479,938.
Winkler, Alfred; Bammesberger, Karl; and Ernst, Heinz,3,463,071.
Ernst, Herbert. Prefabricated structural elements, especially for constructing a staircase, scaffold, or the like. 3,474,882, 10-28-69, Cl. 182-106.
Ernst, Max: *See*—
Munzberg, Walter, 3,483,369.
Munzing, Robert, 3,450,272.
Ernst, Max. Rotary drum lot mixing and dispensing device. 3,468,542, 9-23-69, Cl. 273-144.
Ernst, Otto A.: *See*—
Pierman, Martin J.; Donath, Edwin W.; and Ernst, Otto A.,3,463,003.
Batzer, Hans; Ernst, Otto; and Niklaus, Ulrich,3,470,266.
Ernst, Otto; Neubold, Kurt; Ibing, Guenther; and Kugler, Fritz, to Ciba Limited, and Ruhroel Chemiewerk der Steinkohlenbergwerke Mathias Stinnes Aktiengesellschaft. Thermocurable composition of epoxy resins and mixed polycarboxylic acid anhydrides. 3,470,132, 9-30-69, Cl. 260-47.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans, to Ciba Limited. Curable, filled unsaturated polyester resin mixtures. 3,455,869, 7-15-69, Cl. 260-40.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans, to Ciba Limited. Curable filled epoxy resin mixtures. 3,470,128, 9-30-69, Cl. 260-37.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans, to Ciba Limited. Curable filled cycloaliphatic epoxy resin mixtures. 3,470,129, 9-30-69, Cl. 260-37.
Ernst, Richard R.: *See*—
Nelson, Forrest A.; and Ernst, Richard R.,3,461,381.
Anderson, Weston A.; and Ernst, Richard,3,475,680.
Ernst, Robert R., to Sybron Corporation. Method and apparatus for sterilizing. 3,477,807, 11-11-69, Cl. 21-58.

Ernst, Rolf K., 1/2 to Maschinenfabrik Karl Hennecke, and 1/2 to Mobay Chemical Company, mesne. Film coating apparatus. 3,436,022, 4-1-69, Cl. 239-455.

Ernst-Schraner, Theodor, to American Air Filter Company, Inc. Gas filter holding device. 3,432,999, 3-18-69, Cl. 55-490.

Ernst, Walter, de Biasi, Charles P. Auto-kinetic wheel or fluid motor. 3,450,004, 6-17-69, Cl. 91-73.

Ernst, Walter, to Bau-Stahlgewebe GmbH. Supporting means for concrete reinforcements. 3,460,309, 8-12-69, Cl. 52-677.

Ernst, Walter: *See—*
Whitmore, Charles H.; and Ernst, Walter,3,431,856.

Ernst, Wilhelm August, to International Standard Electric Corporation. Pressure-activated fuse for electrical components. 3,473,088, 10-14-69, Cl. 317-12.

Ernstberger, Alfred F.: *See—*
Jepson, Ivar; and Ernstberger, Alfred F.,3,451,087.

Ernsthausen, Roger E.; and Myers, Clarence M., to Owens-Illinois, Inc. Method for applying electro-conductive pattern on non-conductive surfaces. 3,485,664, 12-23-69, Cl. 117-212.

Ernyei, Herbert; and Huguier, Philippe, to Societe Lignes Telegraphiques et Telephoniques. Control systems for constant proportion mixtures. 3,430,206, 2-25-69, Cl. 340-172.5

Erpel, Adolph C., to Navigation Computer Corporation. Photoelectric punched paper tape reader rejecting diffused light rays. 3,469,103, 9-23-69, Cl. 250-219.

Erpenbach, Heinz: *See—*
Sennewald, Kurt; Erpenbach, Heinz; Rehberg, Heinrich; and Viertel, Gunter,3,476,776.
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; and Joest, Herbert,3,432,544.

Errede, Louis A., to Minnesota Mining and Manufacturing Company. Modified polymers having recurring N-substituted anthranyl side groups. 3,440,228, 4-22-69, Cl. 260-78.

Errede, Louis A.: *See—*
Allen, Michael G.; Errede, Louis A.; and Hannula, Rodney R.,3,479,877.

Errico, Gus J. Spark plug with adjustable electrode gap. 3,431,450, 3-4-69, Cl. 313-125.

ERSA Ernst Sachs KG: *See—*
Sachs, Ernst; and Schwan, Bernhard, 3,480,759.
Sachs, Ernst, 3,484,033.

Ershova, Antonida Alexeevna,: *See—*
Getselev, Zinovy Naumovich; Balakhontsev, Gennady Alexeevich; Cherepok, Gennady Vasilievich; Zinoviev, Vladimir Konstantinovich; Ershova, Antonida Alexeevna,; and Nonin, Mikhail Moiseevich,3,467,166.

Erskine, Donald B., to Calgon Corporation, mesne. Carbon removal. 3,444,078, 5-13-69, Cl. 210-33.

Erspamer, August S.; and Sherman, William R., to Scott Paper Company. Apparatus for stabilizing paper webs. 3,448,529, 6-10-69, Cl. 34-116.

Ertel, Alfred, to Texas Instruments Incorporated. Solid state microstripline attenuator. 3,432,778, 3-11-69, Cl. 333-81.

Ertel, Alfred, to Texas Instruments, Incorporated. Monolithic microwave duplexer switch. 3,475,700, 10-28-69, Cl. 333-7.

Erteszek, Jan J., to Olga Company. Edge tension relief in elasticized garments. 3,421,516, 1-14-69, Cl. 128-524.

Erteszek, Olga, to Olga Company. Elasticized garments. 3,422,818, 1-21-69, Cl. 128-454.

Erteszek, Olga, to Olga Company. Girdle having comfort waist. 3,444,862, 5-20-69, Cl. 128-528.

Ertl, Willi: *See—*
Dziuk, Peter; and Ertl, Willi,3,424,210.

Ervin, Evander M. Method and means for sorting objects according to length. 3,469,690, 9-30-69, Cl. 209-102.

Ervin, Robert Gilpin, Jr., to Rose Manufacturing Company. Shock absorber for safety belt. 3,444,957, 5-20-69, Cl. 182-3.

Erving Paper Mills: *See—*
Taylor, Milford J., 3,459,353.

Erwin, Alfred S., Jr., to Shaffer Tool Works. Safety closure device. 3,458,083, 7-29-69, Cl. 220-55.3

Erwin Behn Verpackungsbedarf G.m.b.H.: *See—*
Wehren, Peter H. A., 3,443,609.

Erwin, Edson Lockwood; Field, Joseph Patrick; and Mahood, Robert John, to International Telephone and Telegraph Corporation. Automatic switching matrix. 3,441,677, 4-29-69, Cl. 179-18.

Erwin, Eugene S.; and Marco, Gino J., to Monsanto Company. Product and process of feeding ruminants feed containing ethoxylated alcohols to promote growth. 3,421,898, 1-14-69, Cl. 99-2.

Erwin, James V.: *See—*
Danielson, Alton J.; Erwin, James V.; and Berg, Harold A.,3,445,310.

Erwin, James V., to Minnesota Mining and Manufacturing Company. Decorative wood grain sheet material for automobile panels. 3,452,861, 7-1-69, Cl. 206-59.

Erwin, John R.: *See—*
Kutney, John T.; and Erwin, John R.,3,434,679.

Erwin, John R., to General Electric Company. Radial flow machine. 3,460,748, 8-12-69, Cl. 230-114.

Erwin, John R., to General Electric Company. Radial outflow turboshaft engine. 3,465,518, 9-9-69, Cl. 60-39.16

Erwin Kampf Maschinenfabrik: *See—*
Hutzenlaub, Armin, 3,485,429.

Erwin, Kenneth L.; and Lodwick, Ross W., to American Welding & Manufacturing Company, The. Flash welder. 3,479,480, 11-18-69, Cl. 219-97.

Erwin, Kenneth L.; and Lodwick, Ross W., to American Welding & Manufacturing Company, The. Flash welder. 3,479,482, 11-18-69, Cl. 219-100.

Erwin, Le Roy E.: *See—*
Cosgrove, Donald G.; Erwin, Le Roy E.; and Bielss, Eldon W.,3,469,183.

Erwood, Charles William, to United Kingdom of Great Britain and Northern Ireland, Minister of Supply in Her Britannic Majesty's Government of the. Time controlling devices employing electrochemical action. 3,475,571, 10-28-69, Cl. 200-61.08

Eryx Corporation: *See—*
Salo, Eric A., 3,436,600.
Salo, Eric A., 3,470,459.
Salo, Eric A., 3,486,033.

Erz- und Kohleflotation G.m.b.H. Bochum: *See—*
Siebel, Joseph; and Macura, Heinrich, 3,455,719.

Esaki, Leo: *See—*
Chang, Leroy L.; and Esaki, Leo,3,450,960.
D'Heurle, Francois M.; Esaki, Leo; and Seki, Hajime,3,451,912.

Esaki, Leo; Howard, Webster E., Jr.; and Stiles, Phillip J., to International Business Machines Corporation. Metal-degenerate semiconductor-insulator-metal sandwich exhibiting voltage controlled negative resistance characteristics. 3,445,733, 5-20-69, Cl. 317-234.

ESB Incorporated: *See—*
Anderson, Charles E., 3,437,530.
Arms, John T., 3,458,362.
Dawson, Robert J., 3,484,295.
Duddy, Joseph C.; and Dermody, William J., 3,437,523.
Duddy, Joseph C., 3,453,145.
Duddy, Joseph C., 3,455,740.
Duddy, Joseph C., 3,466,194.
Duddy, Joseph C.; Arms, John T.; and Kelley, John J., 3,479,223.
Duddy, Joseph C., 3,481,786.
Duddy, Joseph C., 3,481,790.
Duddy, Joseph C., 3,486,946.
Fletcher, Robert W., 3,427,203.
Garland, Edward J., 3,459,907.
Honer, Harold N., 3,437,529.
Jordan, Howard J.; and Zednik, Louis, Jr., 3,475,221.
Krebs, Luis Soto; and Dawson, Robert J., 3,476,610.
MacKenzie, Murdo James, Jr.; and Salkind, Alvin J., 3,484,291.
Purcell, Thomas H., Jr., 3,483,044.
Raddi, William J., 3,454,012.
Simpson, Jack N.; and Boyer, Charles J., 3,458,865.
Spellman, Patrick J.; and Youngquist, John A., 3,466,195.
Tate, John M., 3,473,104.
Varker, Alan E., 3,446,874.

Esbeck, Howard Christian: *See—*
Arnold, Loren Glenn; Sullivan, James Franklin; and Esbeck, Howard Christian,3,481,407.

Esbeck, Orville G. End gate structure. 3,442,550, 5-6-69, Cl. 296-50.

Escarfail, Jean-Pierre: *See—*
Penkala, Joseph E.; and Escarfail, Jean-Pierre,3,453,137.

Esch, Jere: *See—*
Powers, Richard C., 3,473,299.

Esch, Robert E., to Bendix Corporation, The. Gaging machine. 3,481,043, 12-2-69, Cl. 33-174.

Esch-Werke K.G.: *See—*
Thomas, Adolf, 3,446,301.
Thomas, Adolf, 3,464,536.

Esche, Rolf; and Hacht, Werner V., to Siemens Aktiengesellschaft. Induction heating apparatus. 3,431,382, 3-4-69, Cl. 219-10.79

Eschenbrenner, Gunther P.; and Honigsberg, Charles A., to Pullman Incorporated. Apparatus for effecting catalytic reactions at elevated pressures. 3,475,136, 10-28-69, Cl. 23-289.

Eschenfeld, Edwin Louis. Hydropneumatic power wheel. 3,466,866, 9-16-69, Cl. 60-22.

Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max, to Firmenich & Cie. Cycloprane intermediates for irones. 3,470,241, 9-30-69, Cl. 260-488.

Escher, Balint: *See—*
Flaks, Simon; and Escher, Balint,3,453,105.

Escher, Hans. Gas extraction system for open top shaft furnaces. 3,479,021, 11-18-69, Cl. 266-31.

Escher Wyss Aktiengesellschaft: *See—*
Baumann, Kurt; and Schurenberg, Wilhelm, 3,455,331.

Escher Wyss G.m.b.H.: *See—*
Dahl, Hans, 3,432,384.

Escher Wyss, Limited: *See—*
Lutter, Alexander, 3,463,318.

Eschinasi, Emile H., to Givaudan Corporation. Process for the preparation of 3,7-dimethyl-5,7- octadiene-1-yl esters. 3,455,997, 7-15-69, Cl. 260-489.

Eschinasi, Emile H.; and Cotter, Mary Lou, to Givaudan Corporation. Synthesis of pseudoionones. 3,439,042, 4-15-69, Cl. 260-594.
Eschle, Karl: *See—*
Luethi, Christian; and Eschle, Karl,3,444,164.
Esco Corporation: *See—*
Hutton, Richard W.; and Gettmann, Philip L., 3,439,494.
Esco Elevators, Inc.: *See—*
Johnston, Everett E., 3,438,398.
Escoa Corporation: *See—*
Rhodes, William A., 3,454,837.
Escobosa, Alfonso S., to North American Rockwell Corporation. Synchronous demodulating means. 3,424,990, 1-28-69, Cl. 324-50.
Escursell-Prat, Roberto. Method of automatically threading yarn from a bobbin into the ring traveller of a continuous ring spinning machine and the like. 3,438,187, 4-15-69, Cl. 57-34.
Escursell Prat, Roberto. Automatic thread joiner and continuous spinning machines. 3,445,997, 5-27-69, Cl. 57-34.
Eshbaugh, Robert Wayne. Method for forming a fiberglass racket frame. 3,483,055, 12-9-69, Cl. 156-189.
Eshelman, Frank R. Intrauterine device. 3,457,915, 7-29-69, Cl. 128-130.
Eshenauer, Earl Wilbert, J., to AMP Incorporated. Binary bit counter. 3,479,653, 11-18-69, Cl. 340-174.
Eshleman, Ralph G.; and Farmer, James W., to Hamilton Watch Company. Delay timer with selector switch. 3,428,763, 2-18-69, Cl. 200-33.
Eshuis, Jannes, to American Enka Corporation. Process for the preparation of yarns for pile fabrics. 3,479,810, 11-25-69, Cl. 57-140.
Eskimo Pie Corporation: *See—*
Fox, Lester John, 3,433,261.
Jernigan, Thomas L., 3,426,506.
Jernigan, Thomas L., 3,447,668.
Reynolds, Richard Roland, 3,481,282.
Eskra, Rudolph, to Dura Corporation. Drive assembly for window regulators. 3,440,892, 4-29-69, Cl. 74-89.18
Eskra, Rudolph; and Cook, James M., to Dura Corporation. Window actuator. 3,440,765, 4-29-69, Cl. 49-349.
Eskridge, Brewster B.; Fisher, Francis J.; Moore, Jackson A.; and Rhash, Dewaine A., to American Enka Corporation. Process for manufacture of yarns. 3,461,521, 8-19-69, Cl. 28-72.11
ESL, Incorporated: *See—*
Franks, Raymond E., 3,430,249.
Franks, Raymond E., 3,458,862.
Esmay, Donald L.; and Kottong, Gerald W., to Minnesota Mining and Manufacturing Company. Process for preparing perfluoroguanidine. 3,450,762, 6-17-69, Cl. 260-564.
Esmay, Edward N.: *See—*
Clark, James A.; and Esmay, Edward N.,3,471,220.
Claxton, Clarence W.; and Esmay, Edward N.,3,444,760.
Esopi, Aldo J. Ski-and-pole carrier. 3,486,672, 12-30-69, Cl. 224-45.
Espada Kywi, Fermin. Automatic installation for the consecutive washing and drying of cars. 3,451,094, 6-24-69, Cl. 15-302.
Espe Fabrik Pharmazeutischer Praparate GmbH: *See—*
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf, 3,453,242.
Espelage, Paul M.: *See—*
Turnbull, Fred G.; and Espelage, Paul M.,3,487,278.
Espenschied, Edward P.; and Hill, Robert R., to Wilson, Lee, Engineering Company, Inc. Apparatus for handling open coils of strip metal. 3,446,491, 5-27-69, Cl. 263-6.
Espenschied, Helmut; and Jackel, Johann, to Bosch, Robert, G.m.b.H. Transmission control device. 3,429,194, 2-25-69, Cl. 74-337.5
Espey, Harry R.; and Ehrlich, Benjamin F., to Esso Production Research Company. Maintaining spacial alignment between rotatively driven members. 3,462,665, 8-19-69, Cl. 318-85.
Espey Mfg., & Electronics Corporation: *See—*
Silco, Francis, 3,466,490.
Espig, Winfried, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic shutter with electronic timing circuit. 3,437,026, 4-8-69, Cl. 95-53.
Espinal, Martin. Recording pill dispenser. 3,477,561, 11-11-69, Cl. 206-42.
Espinosa, Robert J., to Varian Associates. Non-resonant stub supports for slow wave circuits. 3,433,999, 3-18-69, Cl. 315-3.5
Espinosa, Robert J., to Varian Associates. High frequency electron discharge device having an improved depressed collector. 3,471,739, 10-7-69, Cl. 315-3.5
Esposito, Charles R.: *See—*
Stanonis, David J.; King, Walter D.; and Esposito, Charles R.,3,475,823.
Esposito, Joseph J. Golf swing training device. 3,434,722, 3-25-69, Cl. 273-186.
Esposito, Vincent J., Jr. Pilferproof cap with integral pressure actuated sealing means. 3,430,777, 3-4-69, Cl. 215-52.
Esposito, Vincent J., Jr. Integral child-proof cap. 3,450,289, 6-17-69, Cl. 215-9.
Esposito, Vincent J., Jr. Child-proofing collar for containers having screw- on or snap-on caps. 3,482,723, 12-9-69, Cl. 215-9.
Espy, Herbert H., to Hercules Incorporated. Composition of aminehalohydrin resin and curing agent and method of preparing wet strength paper therewith. 3,442,754, 5-6-69, Cl. 162-164.
Esquevin, Jacques: *See—*
Sahores, Jean; and Esquevin, Jacques,3,446,352.
Esquillan, Nicolas; and Houdin, Henri, to Societe des Entreprises Boussiron. Rig for work at sea, in lakes, lagoons. 3,466,878, 9-16-69, Cl. 61-46.5
Esquire Inc.: *See—*
Moore, Buell, 3,459,934.
Essem Metotest AB: *See—*
Arnelo, Anders Ingvar, 3,437,918.
Arnelo, Anders Ingvar; and Leuchovius, Kurt Nils Sture, 3,466,536.
Essen, Edgar, to Allmanna Svenska Elektriska Aktiebolaget. Turbogenerator with inlets and outlets for cooling channels in the rotor slot opening into the airgap. 3,431,443, 3-4-69, Cl. 310-65.
Esser, Ernst S.: *See—*
Houseman, Henry J.; and Esser, Ernst S.,3,484,851.
Esser, Harold H.: *See—*
Leeson, Meldon Gerald; and Esser, Harold H.,3,423,949.
Esser, Klaus, K. G.: *See—*
Esser, Klaus, 3,420,000.
Esser, Klaus, to Esser, Klaus, K. G. Opening device for light domes, skylights, etc.. 3,420,000, 1-7-69, Cl. 49-280.
Essery, John Michael, to Bristol-Myers Company. -tetrazolylbenzylpenicillins. 3,427,302, 2-11-69, Cl. 260-239.1
Essex, Duane Arnold, to Deere & Company. Mechanism for raising and lowering outrigger frames on implement carriers. 3,463,241, 8-26-69, Cl. 172-311.
Essex International, Inc.: *See—*
Elliot, Howard A., 3,462,728.
Hartz, Marvin E.; and Witek, Roman J., Jr., 3,475,718.
Pipes, Dennis A.; and Smith, La Verne, 3,476,491.
Winogrocki, Ray F.; Brzozowski, Stephen, Jr.; and McClure, Gerald L., 3,459,909.
Essex Manufacturing Co., Inc.: *See—*
Otto, John R.; and Pidcock, Herbert A., 3,449,535.
Essex Wire Corporation: *See—*
Dryer, Peter J.; and De Lorme, Albert R., 3,432,630.
Ege, William W., Jr., 3,434,079.
Ferryman, Kenneth K., Jr., 3,461,256.
Smith, Billie L., 3,428,742.
Stoi, Walter T.; De Lorme, Albert R.; and Sketch, Harry F., 3,431,371.
White, Frederick M., 3,455,640.
Essig, Henry J.: *See—*
Tucker, Harold A.; and Essig, Henry J.,3,445,403.
Essig, Karl, to Stoll, H., & Company. Flat knitting machines. 3,425,245, 2-4-69, Cl. 66-64.
Esslinger, Paul; Winter, Heinrich; and Wolf, Walter, to Germany, Federal Republic of, represented by the Minister of Defense. Aluminum base alloy production. 3,445,920, 5-27-69, Cl. 29-472.3
Esso Production Company: *See—*
Whitmer, Lawrence W.; Gewers, Claus W. W.; and McLatchie, Allan S., 3,474,663.
Esso Production Research Company: *See—*
Alexander, Warren A., 3,439,155.
Arendt, Harry S., 3,426,851.
Barry, Adelbert; Chalmers, Franklin L.; and Pearson, John B., 3,480,101.
Bielstein, Walter J.; and Harrison, Otto R., 3,427,651.
Bielstein, Walter J., 3,461,828.
Bombardieri, Caurino C., 3,434,545.
Bombardieri, Caurino C., 3,456,504.
Brumble, James T., Jr., 3,426,849.
Buck, Henry M.; Bruecher, Judith F.; Carlton, Louis A.; and Pierce, Aaron E., 3,431,974.
Childers, Thomas W.; and Genois, Edmond R., 3,444,927.
Childers, Thomas W.; Genois, Edmond R.; and Brasier, Charles A., 3,464,495.
Cooke, Claude E., Jr., 3,446,282.
Corley, Charles B., Jr.; and Bohlmann, Willy F., Jr., 3,426,842.
Crook, Troy N., 3,445,642.
Eckel, John E.; and Lock, Everett H., 3,454,117.
Eckel, John R.; and Hildebrandt, Alexander B., 3,445,085.
Eisinga, Simon; and Keet, Lourens, 3,486,297.
Espey, Harry R.; and Ehrlich, Benjamin F., 3,462,665.
Genois, Edmond R.; and Childers, Thomas W., 3,464,496.
Gidley, John L., 3,441,085.
Gidley, John L.; and Tomer, Fred S., 3,452,818.
Gidley, John L.; Terry, William M.; and Brooks, Fred A., Jr., 3,481,403.
Gidley, John L., 3,481,404.
Glazier, Walter H., 3,431,999.
Graham, John W., 3,481,401.
Hindman, Robert G.; and Bardgette, John J., 3,426,542.
Horeth, John M.; Howard, William D.; and Langenheim, Richard H., 3,462,761.

Howell, Lynn G.; Brannon, Hezzie R., Jr.; and Barry, Adelbert, 3,472,076.
Kerver, John K.; Kaiser, Albert D., Jr.; Heilhecker, Joe K.; and Mc Kinney, Joseph M., 3,481,400.
Kiel, Othar M.; and Graham, Harold L., 3,444,889.
Kline, Kenneth A., 3,440,826.
Koonce, Kenneth T., 3,422,895.
Ledgerwood, Leroy W., Jr., 3,461,916.
Leibach, Raymond E., 3,474,867.
McDougall, Lee A.; and Brooks, Fred A., Jr., 3,456,735.
McDuffie, John C., Jr., 3,426,850.
Norman, Joe H.; and McLelland, Donald R., 3,474,737.
Ortloff, John E., 3,475,039.
Payne, Percy A., 3,422,672.
Peters, Beldon A., 3,455,387.
Rich, Elvis, 3,482,526.
Robinson, Leon H.; and Williams, Robert E., 3,461,965.
Spillette, Arthur G., 3,477,510.
Stone, Jacob E., 3,465,286.
Williams, Robert E.; Ayers, Robert C., Jr.; and Cooke, Claude E., Jr., 3,444,930.

Esso Research and Engineering Company: *See*—
Aldridge, Clyde L., 3,440,164.
Aldridge, Clyde L., 3,442,797.
Amir, Emanuel M., 3,431,317.
Amir, Emanuel M.; Wadley, Edward F.; and Wesselhoft, Robert D., 3,449,456.
Amir, Emanuel M., 3,484,385.
Arendt, Harry S., 3,477,509.
Asfazadourian, Michel; and Prillieux, Marcel, 3,440,234.
Asfazadourian, Michel; Muths, Robert; and Prillieux, Marcel, 3,449,459.
Asher, William J., 3,437,590.
Attwood, John Hamilton, 3,446,290.
Bank, Shelton; Vogelfanger, Elliot; Naslund, Lars A.; and Yates, David J. C., 3,428,448.
Bartok, William; and Shabaker, Robert H., 3,431,194.
Batzold, John S., 3,431,220.
Bauer, Richard H.; and Kilpert, Richard, 3,439,075.
Bauer, Richard H.; and Kilpert, Richard, 3,480,493.
Bearden, Roby, Jr; and Aldridge, Clyde L., 3,427,293.
Beltzer, Morton; and Horowitz, Hugh H., 3,441,443.
Berckmoes, Philemon J. L., 3,469,363.
Berger, Martin, 3,421,002.
Bergougnou, Maurice A., 3,442,028.
Bichard, John A., 3,422,000.
Bilisoly, Julius Philip; and Zachry, James Bryan, 3,434,964.
Blackwell, Noah E., III; and Metrailer, William J., 3,446,728.
Borzel, Paul; and Kennedy, Joseph P., 3,484,423.
Bosniack, David S.; Stogryn, Eugene L.; and Berger, Joel G., 3,441,520.
Brasch, Jay, 3,452,002.
Brois, Stanley J., 3,449,491.
Brois, Stanley J., 3,464,811.
Brois, Stanley J., 3,468,925.
Brois, Stanley J., 3,476,833.
Broussard, Leo, 3,479,232.
Brown, Arden S., 3,442,116.
Bryan, James F., 3,464,466.
Buchanan, William L.; and Straight, Harry F., Jr., 3,476,494.
Burkard, Herbert G.; Henselman, Richard O.; Miller, Harold N.; and Tunkel, Norman, 3,442,790.
Burkard, Herbert G.; and Bosniack, David S., 3,470,099.
Cahn, Robert P., 3,425,935.
Cahn, Robert P.; Long, Robert B.; Cecchetti, Ralph; Carr, Jesse M., Jr.; and De Feo, Richard J., 3,481,971.
Carr, Jesse M., Jr.; Byars, Gerald A.; and De Feo, Richard J., 3,480,662.
Carter, James L.; and Sinfelt, John H., 3,424,669.
Carter, James L.; and Savini, Charles G., 3,472,794.
Cashman, Edward P.; and Schneider, Nicholas M., 3,458,274.
Chaney, Allen L.; and Cart, Eldred N., Jr., 3,443,908.
Cheysson, Philippe J., 3,457,703.
Cier, Harry E., 3,454,665.
Clark, Earl C.; and Schumacher, Edward B., 3,470,678.
Claybaugh, Billy E.; Griffin, John R.; and Watson, Albert T., 3,472,829.
Clayton, Robert E.; and McGovney, Clarence L., 3,460,978.
Cohen, Abraham David, 3,456,026.
Cook, Harry C., 3,453,716.
Corbett, Luke W., 3,453,226.
Cotrupe, Demetrio P.; Wellman, William E.; and Burton, Paul E., 3,446,850.
Cull, Neville Leverne; and Aldridge, Clyde Lee, 3,454,649.
Davidson, Edmund B., 3,438,950.
Davidson, Edmund B., 3,455,890.
Davis, John H., 3,485,884.
De Feo, Richard Joseph; and Byars, Gerald Albert, 3,484,190.
Delahunt, John F.; and Haisch, Richard A., 3,483,101.
Donnelly, John F.; Larsen, Michael J.; and Webber, William O., 3,427,138.
Douros, John D., Jr.; and Naslund, Lars A., 3,440,141.
Dukek, William G.; and Wakeford, Brian R., 3,478,578.
Eberly, Paul E., Jr.; and Webb, Dorothy, 3,485,748.
Edman, Walter W., 3,422,204.
Edman, Walter W., 3,439,088.
Edwards, Alan H., 3,447,916.
Edwards, David A.; Evans, Eric B.; and Fowler, Benjamin T., 3,468,945.
Ehrler, John L., 3,483,119.
Eisenberg, Benjamin; and Magee, Ellington M., 3,427,152.
Ellert, Henry George; and Mattox, William Judson, 3,437,587.
Eng, Jackson; and Bumbulis, Janis, 3,434,961.
Eng, Jackson; and Tiedje, John L., 3,442,792.
Eng, Jackson; Thomson, Gordon H.; and VanderLinden, Ronald C., 3,475,327.
Eng, Jackson; and Guggisberg, William R., 3,480,540.
Eng, Jackson; and Tiedje, John L., 3,484,366.
Engel, Lawrence J., 3,440,271.
Engelhart, John E., 3,449,236.
Epperly, William R.; Read, Chester L.; and Lorenz, Maurice G., 3,468,791.
Farrissey, William J., Jr., 3,476,816.
Favis, Dimitrios V., 3,472,910.
Fiocco, Robert J.; Schumacher, Edward B.; and Sommer, Edward C., 3,454,180.
Foroulis, Zisis Andrew, 3,453,203.
Foroulis, Zisis Andrew, 3,459,654.
Foroulis, Zisis Andrew, 3,472,666.
Forster, Eric O.; and Vanderbilt, Byron M., 3,427,264.
Forster, Eric O., 3,434,220.
Forster, Eric O.; and Effron, Edward, 3,478,261.
Frankenfeld, John W.; Cahn, Robert P.; and Zaybekian, Philip, 3,427,223.
Furey, Michael J.; and Turbak, Albin F., 3,429,817.
Gardiner, John B.; and Passannante, Anthony J., 3,441,549.
Gladrow, Elroy Merle; and Kimberlin, Charles Newton, Jr., 3,449,265.
Gorman, Paul T.; and Small, Augustus B., 3,457,622.
Grgurich, Donald A.; Johnston, William K.; and Weissman, Walter, 3,446,029.
Griesbaum, Karl; Oswald, Alexis A.; and Hall, Daniel Noyes, 3,449,474.
Griffin, Lindsay I., Jr., 3,453,147.
Griffin, Lindsay I., Jr., 3,476,608.
Gunning, Harry E., 3,474,016.
Guthrie, Donald A., 3,425,922.
Hamner, Glen Porter, 3,440,163.
Hawley, Roger S.; and Vanderbilt, Byron M., 3,424,818.
Hawley, Roger S., 3,454,462.
Heinzelmann, Fred J.; and Saxton, Arthur L., 3,475,160.
Hemminger, Charles E., 3,484,364.
Henselman, Richard O.; and Miller, Harold N., 3,475,321.
Herbst, Walter A., 3,421,824.
Hibshman, Henry J., 3,482,008.
Higgins, John J.; and Stucker, Nova E., 3,444,117.
Hochman, Jack M.; and Loboda, Wesley J., 3,479,146.
Holt, Eugene L., 3,440,102.
Hopkins, Don J.; Munley, William J., Jr.; and Mackinnon, John, 3,454,479.
Hopper, Jack R.; and Corman, Blaine G., 3,422,012.
Hu, Shih-En, 3,459,662.
Hu, Shih-En, 3,484,375.
Hunter, Edward Allen; Knarr, Warren Alfred; and Byars, Gerald Albert, 3,423,323.
Ilnyckyj, Stephan; and MacDonald, John M., 3,444,259.
Jahnig, Charles E.; and Lewis, Warren K., Jr., 3,424,554.
Jahnig, Charles E.; and Schnepf, Robert W., 3,431,197.
Jasek, Albert W., 3,457,768.
Johnson, Burnett H., 3,475,347.
Jolley, Gordon B., 3,455,490.
Kahn, Donald J.; Furer, Frieder S.; and Robbins, Max L., 3,451,931.
Kearby, Kenneth K., 3,423,194.
Kearby, Kenneth K.; and Lang, Robert J., 3,476,508.
Kennedy, Joseph P., 3,426,007.
Kilpert, Richard; Winsor, Edward J.; and Bauer, Richard H., 3,425,455.
Kilpert, Richard; and Bauer, Richard H., 3,426,902.
King, William H., Jr., 3,427,864.
King, William H., Jr., 3,478,573.
Kociscin, Joseph J., 3,432,606.
Konecky, Milton S., 3,450,781.
Kroll, Wolfram R., 3,439,054.
Kroll, Wolfram R., 3,455,979.
Kroll, Wolfram R., 3,463,800.
Kuntz, Irving; and Thomas, Robert M., 3,435,015.
Kuntz, Irving, 3,442,875.
Kuntz, Irving; and Kroll, Wolfram R., 3,459,721.

Kuntz, Irving; and Thomas, Robert M., 3,466,313.
Lagani, Anthony, Jr., 3,471,243.
Landrum, Thomas Collum; and Waghorne, Robert Harry, 3,427,240.
Landrum, Thomas Collum; and Waghorne, Robert Harry, 3,442,787.
Langer, Arthur W., Jr.; and White, Herschel T., 3,441,630.
Langer, Arthur W., Jr., 3,450,795.
Langer, Arthur W., Jr., 3,451,988.
Langer, Arthur W., Jr., 3,458,586.
Lawson, John E., Jr., 3,440,162.
Lewis, William R.; Bird, Wilmer L.; and Mindick, Morris, 3,454,488.
Li, Norman N., 3,454,489.
Locke, Warren J., Jr., 3,428,446.
Long, Robert B., 3,420,862.
Long, Robert B.; and Knarr, Warren Alfred, 3,437,712.
Long, Robert B., 3,437,713.
Longwell, John P.; Bieber, Herman; and Begley, John W., 3,429,265.
Luckenbach, Edward C., 3,475,326.
Luckenbach, Edward C., 3,480,406.
Luse, Wallace K.; and Smith, George E., 3,421,360.
Lyon, Richard K., 3,479,165.
MacLaren, Donald D., 3,475,319.
Magee, Ellington M.; and Eisenberg, Benjamin, 3,441,402.
Maggart, Ronald C.; Rothenberg, Don H.; and Heinrich, Raymond L., 3,433,661.
Makowski, Henry S., 3,427,360.
Makowski, Henry S.; and Lynn, Merrill, 3,439,064.
Manne, Richard S., 3,420,769.
Mascenik, John; Flory, John F.; and Van Houten, Leonard E., 3,455,270.
Massa, Victor F.; and Gross, George P., 3,460,901.
Matsuo, Ryota; and Tanabe, Shido, 3,450,806.
Mattox, William Judson, 3,425,814.
Mattox, William Judson; and Hamner, Glen Porter, 3,449,242.
Mead, George A., 3,451,930.
Mertzweiller, Joseph K.; Cull, Neville L.; and Hawley, Roger S., 3,425,895.
Moritz, Karsten Herbert; Pine, Lloyd Albert; and Ellert, Henry George, 3,442,877.
Morway, Arnold J.; and Bodner, Albert J., 3,424,678.
Morway, Arnold J.; and Bodner, Albert J., 3,433,743.
Moss, Gerald; and Stockill, Edward Cyril, 3,458,044.
Mueller, Wolfgang H.; and Oswald, Alexis A., 3,466,336.
Mueller, Wolfgang H.; and Oswald, Alexis A., 3,483,278.
Nelson, Jerome W.; and Rieppel, Perry J., 3,427,428.
Newman, Neil F.; and Wilsher, Rudolph S., 3,456,038.
Nightingale, E Richard, Jr., 3,468,625.
Nixon, James; Wallace, Thomas J.; and Beerbower, Alan, 3,458,294.
Norton, James Hall, 3,425,940.
Noshay, Allen; and Smith, William S., Jr., 3,424,716.
O'Donnell, Joseph P.; Butler, Roger M.; and Simpson, Leander Burton, 3,462,476.
O'Halloran, Rosemary, 3,470,098.
O'Neal, Billie D., 3,459,003.
Oswald, Alexis A., 3,441,589.
Panzer, Jerome; Longosz, Edward J.; Staffin, Gerald D.; and Goodson, Robert M., 3,446,737.
Panzer, Jerome, 3,451,166.
Panzer, Jerome, 3,468,798.
Passannante, Anthony J.; and Stogryn, Eugene L., 3,433,776.
Patton, John T.; and Gillette, Thomas W., 3,440,177.
Patton, Robert H.; and Bown, Delos E., 3,425,984.
Patton, Tad L.; Horeczy, Joseph T.; and Bown, Delos E., 3,477,991.
Pfrehm, Raymond H., 3,430,489.
Pine, Lloyd A., 3,442,934.
Pine, Lloyd A., 3,452,067.
Pine, Lloyd Albert; Ellert, Henry George; and Drushel, Harry Vernon, 3,442,935.
Pine, Lloyd Albert, 3,476,803.
Pine, Lloyd Albert; Moritz, Karsten Herbert; and Ellert, Henry George, 3,484,421.
Pitaro, Tullio L., 3,452,548.
Prager, Manfred J.; and Horowitz, Hugh H., 3,423,246.
Preston, Norman J., 3,439,700.
Raman, Anantha K. S., 3,454,356.
Ray, Richard Louis; Segura, Marnell A.; and Bryan, John L., Jr., 3,433,775.
Rhodes, Richard P., 3,436,419.
Rhodes, Richard P.; and Frost, Albert C., 3,475,162.
Richardson, James T.; and Toups, Stanford S., 3,477,018.
Rieppel, Perry J.; and Nelson, Jerome W., 3,461,540.
Rivas, Alberto Q.; Parker, Laurence R.; and Jones, Terrell M., 3,457,890.
Robbins, Max L.; Leder, Frederic; and Chludzinski, George R., 3,429,811.
Robertson, Jerry L.; and Epperly, William R., 3,476,822.
Roediger, Joseph C.; Tompkins, Eugene E.; and Schoenbaum, George H., 3,427,172.
Rogers, Dilworth T., 3,432,322.
Rogers, Dilworth T.; and Munday, John C., 3,464,156.
Sand, Max; and Cvejanovich, George J., 3,447,070.
Sarsten, Jan A.; and Myers, Michael C., 3,479,832.
Sawyer, Willard Hall; Long, Robert B.; and Gardner, Donald J., 3,441,377.
Schneider, Helmuth G.; and McNamara, Thomas P., 3,426,054.
Schroeder, Herbert F., 3,476,848.
Segura, Marnell Albin; and Hunter, Edward Allen, 3,459,500.
Serniuk, George E.; and Thomas, Robert M., 3,426,005.
Serniuk, George E., 3,432,577.
Shamp, Francis Furman, 3,455,143.
Shropshire, Joseph A., 3,443,998.
Siegel, Joel R.; and Pawson, Beverly A., 3,458,530.
Sinfelt, John H.; Taylor, William F.; and Dembinski, Jerzy, 3,421,870.
Sinfelt, John H.; Barnett, Allan E.; and Dembinski, George W., 3,442,973.
Sinfelt, John H.; and Taylor, William F., 3,450,514.
Small, Augustus B.; Jaruzelski, John J.; and Lenas, Leandros P., 3,474,066.
Sor, Kamil; and Munday, John C., 3,457,090.
Sparks, Robert E., 3,429,800.
Sprow, Frank B., 3,470,265.
Stark, Thomas M.; and Glaser, Marvin B., 3,480,393.
Starnes, Willaim H., 3,442,915.
Starnes, William H., Jr., 3,453,335.
Starnes, William H., Jr., 3,458,473.
Starnes, William H., Jr., 3,465,049.
Starnes, William H., Jr., 3,478,061.
Stogryn, Eugene L.; Argabright, Perry A.; and Leary, Ralph J., 3,441,518.
Straight, Harry F., Jr.; and Kivlen, John A., 3,476,180.
Stuckey, Alto N., Jr.; Blackwell, Noah E., III; and del Valle, Ignacio G., 3,475,323.
Talbot, Frank D. F., 3,434,488.
Taylor, James Howard; and Eidt, Clarence Martin, Jr., 3,432,535.
Taylor, William F.; and Sinfelt, John H., 3,429,656.
Taylor, William F.; and Wallace, Thomas J., 3,438,248.
Taylor, William F.; Sinfelt, John H.; and Biller, William F., 3,443,886.
Taylor, William F.; and Sinfelt, John H., 3,444,099.
Taylor, William F.; Sinfelt, John H.; and Berk, Henry, 3,449,099.
Taylor, William F., 3,475,126.
Tiedje, John Louis; Pasternak, Israel Szabsaj; and Gaspar, Noel John, 3,449,458.
Tornqvist, Erik, 3,420,809.
Tornqvist, Erik, 3,424,774.
Tornqvist, Erik, 3,427,299.
Tornqvist, Erik, 3,471,461.
Tornqvist, Erik, 3,480,562.
Tsien, Hsue C., 3,427,684.
Tsien, Hsue C., 3,431,771.
Tsien, Hsue C., 3,445,887.
Tunkel, Norman; Hollyday, William C., Jr.; Bartlett, Jeffrey H.; and Gleason, Anthony H., 3,449,251.
Tunkel, Norman, 3,462,249.
Tunkel, Norman; and Miller, Harold N., 3,467,597.
Tyler, Carl P., 3,475,310.
Van de Castle, John F.; and Wiese, Herbert K., 3,438,951.
Vanderbilt, Byron M.; and Clayton, Robert E., 3,443,620.
Vanderbilt, Byron M.; and Marsden, Charles F., Jr., 3,447,572.
Vanderbilt, Byron M.; and Hawley, Roger S., 3,481,912.
Vanderbilt, Byron M.; and Fasnacht, James J., 3,484,223.
Vanderbilt, Byron M., 3,484,333.
Vogelfanger, Elliot A.; and Wallace, Thomas J., 3,479,163.
Voorhies, Alexis, Jr.; Kimberlin, Charles Newton, Jr.; and Gladrow, Elroy Merle, 3,480,539.
Walker, David G.; and Wisdom, Norvell E., Jr., 3,437,569.
Walker, David G., 3,440,296.
Wallace, Thomas J., 3,485,604.
Webber, William O., 3,432,481.
Wellman, William E.; Burton, Paul E.; and Diana, William D., 3,462,348.
Welty, Albert B., Jr.; and Hulse, Stewart H., 3,451,923.
Welty, Albert B., Jr., 3,463,599.
Welty, Albert B., Jr.; Johnson, Russell R.; and Atwood, Glenn A., 3,476,513.
White, Herschel T.; and Langer, Arthur W., Jr., 3,474,157.
Wisdom, Norvell E., Jr.; and Forster, Eric O., 3,421,947.
Wisdom, Norvelle E., 3,437,570.
Worsham, Charles H.; and Levine, Duane G., 3,425,873.
Wynnemer, Donald J., 3,442,967.
Young, Dale A.; and Corbett, Luke W., 3,437,614.
Younghouse, Edwin C.; and Panzer, Jerome, 3,458,495.
Zimmerman, Abraham A., 3,441,550.
Zubik, Arnold R.; and Mosley, John C., 3,461,641.

Esso Standard Societe Anonyme Francaise: *See—*
Alliot, Louis; Auclair, Michel; and Godouet, Francois, 3,480,419.
Gaestel, Charles; and Leveuf, Marcel, 3,437,613.
Guerrier, Jean, 3,458,463.
Estabrook, Mark R., to Barnes Drill Co. Feed rate control for abrading machines. 3,455,066, 7-15-69, Cl. 51-138.
Estabrook, Mark R., to Barnes Drill Co. Machine tool traverse control. 3,466,809, 9-16-69, Cl. 51-165.
Estabrook, Norman B., to United States of America, Navy. Underwater buoyancy transport vehicle. 3,434,443, 3-25-69, Cl. 114-16.
Estabrooks, David A., to Western Electric Company, Incorporated. Method of and apparatus for coating articles. 3,479,200, 11-18-69, Cl. 117-21.
Estabrooks, Roger S., to International Shoe Machine Corporation. Fluid pressure control means. 3,477,470, 11-11-69, Cl. 137-612.1
Estee Battery Company: *See—*
Scheinbaum, Henry, 3,436,719.
Estep, Willis F.: *See—*
Croucher, William C.; Estep, Willis F.; and Ross, Gilbert H.,3,442,587.
Ester, Wilhelm: *See—*
Schmitt, Karl; Ester, Wilhelm; Heumann, Hans; and Pauling, Harry,3,453,071.
Esterline, Corporation: *See—*
Adlaf, William J., 3,434,246.
Steen, Ronald G., 3,482,258.
Twersky, David, 3,464,203.
Esterly, Henry N., to FMC Corporation. Anti-counterfeit document. 3,470,359, 9-30-69, Cl. 235-61.11
Esters, Ernie Byron. Dynamoelectric machine with plural split permanent magnet stators. 3,426,224, 2-4-69, Cl. 310-46.
Estes, Chester L., to United States of America, Atomic Energy Commission. Wheel-type electrode for welding beryllium metal. 3,478,189, 11-11-69, Cl. 219-81.
Estes, Cyrus L. Door moving mechanism. 3,478,469, 11-18-69, Cl. 49-199.
Estes Industries, Inc.: *See—*
Street, Gene J., 3,452,471.
Estes, Jack C.; and Park, Arthur, to Pan American Petroleum Corporation. Drilling mud system. 3,472,768, 10-14-69, Cl. 252-8.5
Estes, James W., to Air Reduction Company, Incorporated. Direct arc furnace. 3,459,867, 8-5-69, Cl. 13-9.
Estes, John H.; and Crone, John M., Jr., to Texaco Inc. Dynamic stabilization of a platinum-alumina catalyst in an isomerization reaction. 3,440,300, 4-22-69, Cl. 260-683.68
Estes, John H.: *See—*
Lafferty, William L., Jr.; Child, Edward T.; Estes, John H.; and Vachuda, George W.,3,440,301.
Estes, Nelson N.; Hannah, Kenneth W.; Anderson, Charlie D.; and Eversole, Charles L., to Union Carbide Corporation. Valve for automatic gas regulating system. 3,454,258, 7-8-69, Cl. 251-140.
Estes, Ronald; and Storch, Harold A., to Federal Screw Works. Bolt with deformable washer. 3,426,819, 2-11-69, Cl. 151-69.
Estess, Raymond M.: *See—*
Tolle, Charles I.; and Estess, Raymond M.,3,458,425.
Esteve-Subirana, Antonio, to Laboratoires Om Societe Anonyme. Normalizing or reduction of the abnormal permeability of persons having capillar fragility with para-dihydroxybenzene sulfonate. 3,436,462, 4-1-69, Cl. 424-316.
Estkowski, Michael H., to V-M Corporation. Tone arm set-down control means. 3,476,393, 11-4-69, Cl. 274-10.
Estock, Paul Joseph, to Xerox Corporation. Facsimile system. 3,472,958, 10-14-69, Cl. 178-7.2
Estrabaud, Stephane: *See—*
Charbonnier, Roger; and Estrabaud, Stephane,3,480,949.
Estrin, Gerald; Estrin, Thelma A.; Estrin, Margo Ilene; and Estrin, Judith Lenore. Playing board with removable apertured overlay disposed above a shiftable writing medium. 3,434,718, 3-25-69, Cl. 273-130.
Estrin, Judith Lenore: *See—*
Estrin, Gerald; Estrin, Thelma A.; Estrin, Margo Ilene; and Estrin, Judith Lenore,3,434,718.
Estrin, Margo Ilene: *See—*
Estrin, Gerald; Estrin, Thelma A.; Estrin, Margo Ilene; and Estrin, Judith Lenore,3,434,718.
Estrin, Thelma A.: *See—*
Estrin, Gerald; Estrin, Thelma A.; Estrin, Margo Ilene; and Estrin, Judith Lenore,3,434,718.
Estvan, Charles, Jr. Dynamic display apparatus. 3,475,845, 11-4-69, Cl. 40-106.51
et de Recherches Soler: *See—*
Janoska, Georges, 3,427,411.
Eta A.G. Ebauches-Fabrik: *See—*
Giger, Urs, 3,436,905.
Giger, Urs; and Jakob-Schild, Edwin F., 3,465,513.
Etablissement J. J. Carnaud & Forges de Basse-Indre: *See—*
Jeaneau, Adrien Louis Marie, 3,448,893.
Etablissement Kogerim: *See—*
Forget, Edmond, 3,462,529.
Etablissement Salgad: *See—*
Lichtenstern, Benjamin, 3,486,411.
Etablissements A. Bourbon & Fils: *See—*
Bourbon, Jean, 3,427,113.
Etablissements A. Cazeneuve: *See—*
Bruet, Henri Rene, 3,429,208.
Bruet, Henri Rene, 3,447,407.
Etablissements Bauchet & Cie: *See—*
Schaeffer, Andre, 3,453,112.
Etablissements Bennes Marrel: *See—*
Corompt, Antoine, 3,467,268.
Corompt, Antoine, 3,472,407.
Etablissements Carpano and Pons: *See—*
Bossard, Paul; and Monie, Jean, 3,428,841.
Tairraz, Paul, 3,454,290.
Etablissements Clin-Byla: *See—*
Schmitt, Josef; and Panouse, Jacques J., 3,424,747.
Schmitt, Josef, 3,426,014.
Schmitt, Josef; and Brunaud, Marcel Daniel Pierre, 3,437,731.
Etablissements E. Quetin: *See—*
Lory, Maurice, 3,452,438.
Etablissements E. Ragonot: *See—*
Margrain, Pierre, 3,443,145.
Etablissements Ed. Jaeger S.A.: *See—*
Siot, Roger Jean Jules, 3,439,545.
Etablissements F. Potain, La Clayette: *See—*
Potain, Faustin, 3,464,169.
Etablissements Genoud & Cie: *See—*
Genoud, Jean, 3,423,160.
Etablissements Georges Lebocey & Cie: *See—*
Bourgeois, Norbert Paul, 3,482,420.
Etablissements H. Tempelhof Neuchatel-Serrieres: *See—*
Tempelhof, Hermann, 3,484,870.
Etablissements J. Danois & Fils: *See—*
Malenfant, Yve P.M.J., 3,430,384.
Etablissements Jean Ferrier: *See—*
Ferrier, Jean, 3,468,557.
Etablissements Kuhlmann: *See—*
Pechmeze, Jacques Pierre Edmond; and Mangeney, Gerard Leon Alphonse, 3,454,420.
Etablissements L. Faiveley: *See—*
Georgelin, Alexandre, 3,426,530.
Leger, Roland, 3,444,338.
Etablissements Laguilharre: *See—*
Ciboit, Jacques Jean, 3,443,959.
Etat Francais (French State) represented by the Minister of Armed Forces, Ministerial Delegation for Armament, Direction of Researches and Manufacture of Armament Laboratory of Ballistic and Aerodynamic researches: *See—*
Loyen, Roger, 3,426,247.
Etat Francais, represente par le Ministre, des Armees, Delegation Ministerielle pour l'Armement (Direction des Poudres):*See—*
Boileau, Jacques; Desseigne, Gerard; and Konrat, Jean Paul, 3,466,205.
ETC Incorporated: *See—*
Spangler, Paul J.; and Schmidt, Alfred W., Jr., 3,423,815.
Spangler, Paul J., 3,438,129.
Etchells, John L.; Bell, Thomas A.; and Kittel, Ivan D., to United States of America, Agriculture. Pure culture fermentation of green olives. 3,480,448, 11-25-69, Cl. 99-156.
Etchison, John O., Jr.: *See—*
Bellamy, William G.; Bohannon, William D., Jr.; and Etchison, John O., Jr.,3,457,616.
Etco, Incorporated: *See—*
Peck, Donald J., 3,474,533.
ETEM, Etablissement de Techniques Modernes: *See—*
Rosselet, Claude, 3,471,074.
Ether Engineering Limited: *See—*
Duffield, Frederick E., 3,447,117.
Ether Langham Thompson Limited: *See—*
Duffield, Frederick E., 3,447,117.
Etheridge, Oliver R.: *See—*
Meador, Ernest E.; and Etheridge, Oliver R.,3,424,353.
Etherington, Robert W., Jr.; and Liauw, Koei-Liang, to Mobil Oil Corporation. Catalytic oxidative dehydrogenation of ketones. 3,476,808, 11-4-69, Cl. 260-586.
Ethicon, Inc.: *See—*
Bechtol, Lavon Dee; and Artandi, Charles, 3,451,394.
Bloch, Alfred; and Messores, Arthur S., 3,424,164.
Cranstoun, Leroy Bruce, 3,432,392.
Kaepernik, William Albert; and Listner, Gregory Julius, 3,444,994.
Kaganov, Alan Lawrence; and Turiansky, Iwan Wolodymyr, 3,435,948.
Kronenthal, Richard L.; and Rich, Ernest J., Jr., 3,478,140.
Medell, Irving Bridgman, 3,479,670.
Nichols, Joseph, 3,435,110.
Nichols, JSEPH, 3,435,117.
Ethridge, John L.; and Taylor, Rupert A. Snapring tool. 3,483,606, 12-16-69, Cl. 29-229.

Ethyl Corporation: *See*—
Asinger, Friedrich, 3,453,325.
Baker, Ralph W.; McCarthy, John H.; Place, Harold G.; and Wikman, Andrew O., 3,468,968.
Balash, Lawrence J., 3,485,603.
Bartholomew, Earl, 3,447,516.
Beirne, Patrick D., 3,465,029.
Braxton, Henry G., Jr.; and Lajiness, Evelyn J., 3,433,621.
Braxton, Henry G., Jr.; and Filbey, Allen H., 3,484,218.
Breckoff, Walter E.; and McEuen, John M., 3,424,813.
Brendel, Gottfried J., 3,479,382.
Bruce, Robert S.; and Watt, John C., 3,438,409.
Cliver, Lawrence G., 3,452,069.
Closson, Rex D.; and Ihrman, Kryn G., 3,457,299.
Coffield, Thomas H.; and Wollensak, John C., 3,471,557.
Cragg, Hoyt J.; and Nolen, Doyle A., 3,475,476.
Crook, Hubert D., 3,423,767.
Curry, Robert P.; and Geddes, James C., Jr., 3,426,082.
Daugherty, Ray W., 3,464,465.
Davis, Wayne T., 3,487,097.
Decker, Arthur L., 3,466,383.
Dewhurst, Brian B., 3,449,441.
Dubeck, Michael; and Kleiman, Joseph P., 3,434,814.
Ecke, George G.; and Kolka, Alfred J.; 3,463,731.
Ecke, George G.; and Kolka, Alfred J., 3,476,838.
Eltinge, Lamont, 3,431,897.
Foster, Walter E.; and Presswood, John K., 3,454,612.
Gardner, Henry H., 3,484,996.
Glassbrook, Clarence I., 3,474,006.
Gluckstein, Martin E., 3,442,631.
Goodrum, Richard W., 3,448,474.
Goodrum, Richard W., 3,462,176.
Gorsich, Richard D., 3,431,212.
Gorsich, Richard D., 3,431,213.
Gorsich, Richard D., 3,444,223.
Griffing, Margaret E.; Lamb, Frances W.; and Stephens, Ruth E., 3,449,063.
Guzick, Norman D.; and McCarthy, John H., 3,475,501.
Harris, Luther L., 3,463,721.
Honeycutt, Julian B., Jr., 3,439,012.
Jackisch, Philip F., 3,470,245.
Johnston, James D.; and Giraitis, Albert P., 3,459,514.
Johnston, James D.; and Sims, Leslie L., 3,476,807.
Jones, John T.; Ludt, William C.; and Kellogg, Hudson W., 3,485,598.
Keblys, Kestutis A., 3,433,851.
Keblys, Kestutis A., 3,433,852.
Knapp, Gordon G.; and Kleiman, Joseph P., 3,458,296.
Knapp, Gordon G., 3,474,094.
Kobetz, Paul; and Thomas, Wilford H., 3,423,446.
Kobetz, Paul; and Laran, Roy J., 3,453,093.
Lanier, Carroll W., 3,475,283.
Lehikoinen, Urho A., 3,474,147.
Lenane, Denis L.; and Lyben, Raymond G., 3,485,593.
Ligett, Waldo B., 3,435,118.
Ludt, William C.; and Kellogg, Hudson W., 3,456,492.
Lutzmann, Hans Harald, 3,423,231.
Marsee, Frederick J.; and Eltinge, Lamont, 3,472,495.
Mattson, George W., 3,464,846.
Mattson, George W., 3,473,954.
Meltsner, Bernard R., 3,451,932.
Meltsner, Bernard R., 3,476,814.
Meltsner, Bernard R., 3,480,700.
Napolitano, John P.; and Closson, Rex D., 3,449,455.
O'Neill, James D., 3,442,806.
O'Neill, James D., 3,484,217.
Odenweller, Joseph D., 3,471,578.
Perilstein, Warren L., 3,449,095.
Perilstein, Warren L., 3,485,602.
Plonsker, Larry; and Wright, Norman R., 3,433,619.
Plonsker, Larry; and Wright, Norman R., 3,433,620.
Plonsker, Larry; and Wright, Norman R., 3,433,622.
Plonsker, Larry, 3,480,413.
Raley, Garland E., 3,462,174.
Reitmeier, Ronald E.; Hirschler, Daniel A., Jr.; Lamb, Frances W.; and Stephens, Ruth E., 3,428,573.
Robinson, Gene C., 3,431,185.
Shapiro, Hymin; and Hudson, Russell L., 3,443,919.
Shapiro, Hymin; and Conrad, Franklin, 3,455,678.
Shapiro, Hymin; and Hudson, Russell L., 3,475,145.
Shepherd, Lawrence H., Jr., 3,483,219.
Stephens, Ruth E., 3,425,792.
Stephens, Ruth E.; Hirschler, Daniel A., Jr.; and Lamb, Frances W., 3,433,581.
Stephens, Ruth E.; Hirscler, Daniel A., Jr.; and Lamb, Frances W., 3,447,893.
Stephens, Ruth E., 3,483,138.
Wall, Henry H.; Breidenbach, Eric P.; and Miller, Leo A., 3,468,967.
Werner, Robert P., 3,474,017.
Whiting, Mark Crosby, 3,444,224.
Wikman, Andrew O.; and Rogovin, Lawrence, 3,468,965.
Wilkinson, Geoffrey, 3,452,068.
Wilkinson, Geoffrey, 3,459,780.
Wolf, Calvin N., 3,432,471.
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M., 3,433,618.
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M., 3,442,638.
Wollensak, John C.; and Zaweski Edward F., 3,462,368.
Worrel, Calvin J., 3,483,260.
Worrel, Calvin J., 3,487,131.
Wright, William E.; and Immethun, Peter A., 3,484,386.
Zaweski, Edward F.; and Filbey, Allen H., 3,476,774.
Ethylene Gulf Coast Corporation: *See*—
Bruch, Forrest B., 3,456,294.
Ethylene-Plastique: *See*—
Kepes, Andre, 3,465,575.
Lebrasseur, Genevieve, born Nicoud, 3,446,818.
Lebrasseur, Genevieve, born Nicoud, 3,448,120.
ETMA Maschinenfabrik G.m.b.H.: *See*—
Lotzsch, Lothar, 3,426,446.
Eto, Hiromi: *See*—
Morita, Shigeru; Inoue, Toshio; Eto, Hiromi; and Yoshimitsu, Kenichi,3,456,029.
Eto, Morifusa: *See*—
Oshima, Yasuyoshi; and Eto, Morifusa,3,478,133.
Ets. Genoud & Cie: *See*—
Genoud, Jean, 3,423,160.
Ett, Allen H.: *See*—
Partin, Melvin E.; and Ett, Allen H.,3,426,325.
Etter, Berwyn E., 20% to Jenkins, Eli S. Latch assembly. 3,425,247, 2-4-69, Cl. 70-150.
Etter, Joseph A.; and Garland, Milton W., to Frick Company. Ice rink. 3,485,057, 12-23-69, Cl. 62-77.
Etter, Thomas L., to Foundation for Advancement of the Psychiatric Sciences, Inc. Random output control circuit. 3,427,478, 2-11-69, Cl. 307-271.
Etter, William A.: *See*—
Roberts, Bob R.; and Etter, William A.,3,427,930.
Ettinger, Bruce L.: *See*—
Clark, Thomas J.; and Ettinger, Bruce L.,3,462,522.
Ettinger, Bruce L., to General Electric Company. Deposition of pyrolytic material. 3,457,042, 7-22-69, Cl. 23-209.1
Ettinger, James P., to Electric Regulator Corporation. On-off control of SCR regulated power supply. 3,421,070, 1-7-69, Cl. 321-11.
Ettinger, James P.; and Otteson, Christian S., to Electric Regulator Corporation. Modular power supply. 3,483,433, 12-9-69, Cl. 317-119.
Ettinger, Morris B.: *See*—
Barth, Edwin F.; and Ettinger, Morris B.,3,480,144.
Ettinger, William S. Flotation units and systems employing the same. 3,440,989, 4-29-69, Cl. 114-68.
Ettischer, Helmut, to Eastman Kodak Company. Single lens reflex camera. 3,427,945, 2-18-69, Cl. 95-42.
Ettischer, Helmut, to Eastman Kodak Company. Film advancement control means. 3,447,440, 6-3-69, Cl. 95-42.
Ettischer, Helmut, to Eastman Kodak Company. Film advancing and locking mechanism for a photographic camera. 3,486,431, 12-30-69, Cl. 95-31.
Ettischer, Helmut; and Steisslinger, Kurt, to Eastman Kodak Company. Photographic camera. 3,481,260, 12-2-69, Cl. 95-31.
Ettore, Harold V.; Ashby, Frederick R.; and Faccou, Harlan N., to U.S. Plywood-Champion Paper Inc. Plastic wood covered laminate and method and apparatus for manufacturing the same. 3,475,261, 10-28-69, Cl. 161-43.
Etudes et Fabrications Aeronautiques: *See*—
Pravaz, Marcel H., 3,426,985.
Etz, Herbert. Method of manufacturing tampons. 3,477,102, 11-11-69, Cl. 19-144.5
Etzold, Roland: *See*—
Elmendorf, Armin; Etzold, Roland; and Vaughan, Thomas W.,3,457,094.
Eubanks, Alfred G.: *See*—
Sciacca, Thomas P.; and Eubanks, Alfred G.,3,446,960.
Eubanks, David H.; and Wickliff, David. Automatic bailing self-sealing water trap and emergency air inlet. 3,454,005, 7-8-69, Cl. 128-186.
Eubanks, Floyd G., 10% to McManigal, Robert M. Wire end bender apparatus. 3,451,442, 6-24-69, Cl. 140-1.
Eubanks, James C., to Century Supreme Inc. Carwashing apparatus. 3,438,077, 4-15-69, Cl. 15-21.
Eubanks, John M., to Bell Telephone Laboratories, Incorporated. D. C. restorer. 3,435,252, 3-25-69, Cl. 307-237.
Eubanks, John M., to Bell Telephone Laboratories, Incorporated. Pulse amplifier. 3,439,286, 4-15-69, Cl. 330-21.
Eubanks, Joseph H., to Thermo-Dynamics Corporation. Air supply and vent system for furnace. 3,429,307, 2-25-69, Cl. 126-94.
Eucker, Robert A., to Preformed Line Products Company. Spacer/damper. 3,463,870, 8-26-69, Cl. 174-42.

Eucker, Robert A.: *See—*
Williams, Harrison L.; and Eucker, Robert A.,3,476,868.

Euclid Crane and Hoist Company, The: *See—*
Armington, George E.; and Boytz, Charles B., 3,467,264.
Gustetic, Stanley J.; Boytz, Charles B.; and Engel, Henry, 3,420,389.
Gustetic, Stanley J., 3,441,099.

Euclid, Inc.: *See—*
Hassler, John, 3,462,187.

Eudes, Marcel; and de Vernejoul, Pierre, to Societe Saint-Gobain Techniques Nouvelles. Device for the production of radioelements. 3,462,245, 8-19-69, Cl. 23-252.

Eue, Ludwig; Hack, Helmuth; Westphal, Kurt; and Wegler, Richard, to Farbenfabriken Bayer Aktiengesellschaft. Wild oat control with α-chloro-β-(4- chlorophenyl) propionic acid esters. 3,472,646, 10-14-69, Cl. 71-107.

Eue, Ludwig: *See—*
Muller, Gerhard; Eue, Ludwig; and Hack, Helmuth,3,454,393.
Schrader, Gerhard; Eue, Ludwig; and Hack, Helmuth,3,472,920.

Eufusia, Eugene A.: *See—*
Rudomanski, Andrew C.; and Eufusia, Eugene A.,3,437,411.

Eugene Limited: *See—*
Selinger, Cyril Sigfried, 3,430,353.

Eugster, Conrad: *See—*
Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad,3,436,399.
Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad,3,459,862.

Eugster, Edouard, to Aktiengesellschaft Brown, Boveri & Cie. Controllable semi-conductor element. 3,432,733, 3-11-69, Cl. 317-235.

Eugster, Edouard, to Aktiengesellschaft Brown, Boveri & Cie. Controllable semiconductor element. 3,437,889, 4-8-69, Cl. 317-235.

Eugster, Eduard; and Spickenreuther, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Process for making a semiconductor element. 3,449,826, 6-17-69, Cl. 29-589.

Eull, Marvin J., to Gray Company, Inc. Tubular diaphragm pump. 3,427,987, 2-18-69, Cl. 103-152.

Eumurian, Charles: *See—*
Schjeldahl, Gilmore T.; Carlsen, Harry R.; and Eumurian, Charles,3,480,993.

Euphonics Corporation: *See—*
Wiggins, Alpha M.; and Harris, George Allen, 3,421,109.

Eureka-Carlisle Company: *See—*
Peery, Walter E., 3,462,093.
Smith, Ruslon John, 3,464,871.

Eurich, James Victor, to Bailey, B. W., & Son Limited. Window sash ventilating means. 3,440,948, 4-29-69, Cl. 98-97.

European Atomic Energy Community (Euratom): *See—*
Becker, Winfried, 3,469,447.
Bouchet, Bernard; and Charles, Robert, 3,463,923.
Donato, Luigi; Gennaro, Gianni; and Giordani, Roberto, 3,428,805.
Gandolfo, Jean Marie; and Rouillard, Jean, 3,456,812.
Imarisio, Giancarlo, 3,427,210.
Jehenson, Pierre Simon; and Bauwens, Jean, 3,476,614.
Kestemont, Lucien, 3,438,430.
Knoepfel, Heinz; and Herlach, Fritz, 3,478,231.
Krebs, Karlheinz; and Rochez, Rene, 3,487,218.
Montagnani, Mario; and Farfaletti-Casali, 3,434,925.
Musso, Giuseppe; and Portal, Marcel, 3,474,523.
Mustacchi, Carlo; Gautsch, Othmar; and Wahl, Hartmut, 3,427,702.
Pelah, Israel; Fraysse, Georges; and Hage, Walter, 3,423,586.
Perona, Giovanni; and Volta, Giuseppe, 3,478,412.
Stanchi, Luciano A., 3,479,526.
Stingele, Alwig; and De Cat, Robert, 3,455,348.
Will, Walter; Geist, Heinz; and Krebs, Karlheinz, 3,427,455.

Eurotechni, Office Europeen d'Etudes et de Realisations Techniques:*See—*
Andriussi, Francois G.; and Rouques, Pierre A., 3,458,122.

Eustice, Albert L.: *See—*
Breton, Ernest J.; Eustice, Albert L.; and McCauley, Harry J.,3,480,460.

Euston, Milton K. Reminder auto ignition switch. 3,484,569, 12-16-69, Cl. 200-44.

Eutectic Engineering Company: *See—*
Baer, Charles E., Jr.; Evans, William; and Malinowski, Eugene, 3,436,235.

Eutectic Welding Alloys Corporation: *See—*
Broderick, John P.; and Wishnie, Frederick T., 3,430,862.
Joseph, A David; and Tanzman, Daniel P., 3,471,310.
Joseph, A David, 3,479,231.
Quaas, Joseph F., 3,455,019.
Tanzman, Daniel P., 3,450,527.
Yurasko, George, Jr., 3,428,442.

Euverard, Maynard R. Dry coating thickness gage. 3,423,837, 1-28-69, Cl. 33-169.

Euverard, Maynard R. Dry coating thickness gage. 3,462,848, 8-26-69, Cl. 33-169.

EVADUR Products, Inc.: *See—*
Livingstone, Stanley, 3,448,597.

Evalds, Egils, to Athena Control Incorporated. Temperature control circuit with photo-sensitive coupling to output load. 3,453,450, 7-1-69, Cl. 307-253.

Evancho, Robert G. Golf club including interchangeable heads. 3,424,459, 1-28-69, Cl. 273-80.1

Evangelista, Ernest L.; and Hewko, Lubomyr O., to General Motors Corporation. Loose flange roller bearing with cage retainment. 3,482,891, 12-9-69, Cl. 308-217.

Evangelista, Henry. Buttonhole sewing machine and attachment. 3,425,371, 2-4-69, Cl. 112-68.

Evanish, Michael A. Pin tumbler lock assembly. 3,462,983, 8-26-69, Cl. 70-383.

Evanoff, Richard B.: *See—*
Turner, Lloyd S., 3,441,159.

Evans, Arthur James: *See—*
Crippen, Peter; and Evans, Arthur James,3,455,486.
Crippen, Peter; and Evans, Arthur James,3,455,487.

Evans, Arthur Wallace; and Cleaver, Denis, to British Titan Products Company Limited. Production of pigmentary size titanium dioxide. 3,429,665, 2-25-69, Cl. 23-202.

Evans, Arthur Wallace; Wynne, Reginald George; and Marynowski, Chester Waldemar, to British Titan Products Company Limited. Preparation of pigmentary silicon carbide. 3,485,591, 12-23-69, Cl. 23-208.

Evans, Barry: *See—*
Yildirim, Uyanik; Malow, Monroe; Lourie, Cary H.; and Evans, Barry,3,429,939.

Evans, Bert Leroy, to Seismograph Service Corporation. Voting machine. 3,424,376, 1-28-69, Cl. 235-50.

Evans, Bob O., to International Business Machines Corporation. Data processor employing electronically changeable control storage. 3,478,322, 11-11-69, Cl. 340-172.5

Evans, Calvin D. Automatic motor driven safety brake. 3,481,434, 12-2-69, Cl. 188-162.

Evans, Chandler, Inc.: *See—*
Difford, Le Roy A., 3,427,985.
Difford, LeRoy A.; Grennan, Charles W.; and Moorcroft, David L., 3,483,825.
Noell, Godwin L.; and Difford, Le Roy A., 3,429,270.
Noell, Godwin L.; Cygnor, John E.; and Sundberg, Jack G., 3,437,048.

Evans, Charles E.; and Nagy, John, Jr., to Weston Instruments, Inc. Fail-safe circuits for protecting meters and the like against bipolar voltage overloads. 3,463,966, 8-26-69, Cl. 317-31.

Evans, Dain Stedman. Oxidation resistant tungsten and molybdenum alloy bodies. 3,479,161, 11-18-69, Cl. 29-195.

Evans, David B.; and Evans, John C., to Gold Medal Products Co. Machine for coating popcorn. 3,421,475, 1-14-69, Cl. 118-5.

Evans, David John Ivor: *See—*
Meddings, Basil; Weizenbach, Bauke; Evans, David John Ivor; and Mackiw, Vladimir Nicolaus,3,469,967.

Evans, David M.; and Stene, Manfred, to S & C Electric Company. Mortor driven operator for high voltage switch. 3,432,780, 3-11-69, Cl. 335-68.

Evans, David Silvester, to Morre Reed (Industrial) Limited. Reflected half-base digitizer. 3,484,781, 12-16-69, Cl. 340-347.

Evans, David Silvester, to Moore Reed (Industrial) Limited. Digitizer with long contacts. 3,487,401, 12-30-69, Cl. 340-347.

Evans, Donald B.: *See—*
Avis, Leonard E.; and Evans, Donald B.,3,444,005.

Evans, Donald C.; and Steiner, Wilford L., to Goodyear Aerospace Corporation. Vehicle guidance system. 3,472,469, 10-14-69, Cl. 244-3.15

Evans, Donald L.: *See—*
Bonuchi, James A.; and Evans, Donald L.,3,471,990.

Evans, Don; Stone, Ray; Forman, William; and Taber, Allen M. Game device for use with a phonograph. 3,456,949, 7-22-69, Cl. 273-142.

Evans, Edgar J., to United States of America, Army. Electronic solid-state accelerometer. 3,478,604, 11-18-69, Cl. 73-517.

Evans, Eric B.: *See—*
Edwards, David A.; Evans, Eric B.; and Fowler, Benjamin T.,3,468,945.

Evans, Evan William; and Moon, John Robert, to Imperial Metal Industries (Kynoch) Limited. Titanium-base alloys. 3,441,407, 4-29-69, Cl. 75-175.5

Evans, Evan William; and Rotherham, Miles Edward, to Imperial Metal Industries (Kynoch) Limited. Method of heat-treating beta titanium-base alloys. 3,444,009, 5-13-69, Cl. 148-12.7

Evans, Francis W.: *See—*
Litt, Morton H.; and Evans, Francis W.,3,453,333.

Evans, Francis W.; and Litt, Morton H., to Allied Chemical Corporation. Fluorinated ethers. 3,470,256, 9-30-69, Cl. 260-611.

Evans, Frank M.; and Evans, James A. Cleaning and waxing appliances. 3,482,740, 12-9-69, Cl. 222-132.

Evans, Franklin James, to Du Pont de Nemours, E. I., and Company. Textile-like patterned nonwoven fabrics and their production. 3,485,706, 12-23-69, Cl. 161-72.

Evans, Franklin James; and Levy, Martin R., to Du Pont de Nemours, E. I., and Company. Acrylic nonwoven fabric of high absorbency. 3,485,709, 12-23-69, Cl. 161-109.
Evans, Franklin James; and Summers, Ronald John, to Du Pont de Nemours, E. I., and Company. Tanglelaced non-woven fabric and method of producing same. 3,486,168, 12-23-69, Cl. 161-169.
Evans, Frederick M., to Frankenstein Group Limited. Inflatable escape chutes for aircraft. 3,464,515, 9-2-69, Cl. 182-20.
Evans, Frederick P., to Combustion Engineering, Inc. Temperature and flow regulating apparatus. 3,423,941, 1-28-69, Cl. 60-105.
Evans, G. C., Products Corporation: *See—*
Evans, Grover C.; and Evans, Thomas J., 3,426,771.
Evans, George Q. Elevator conveyor and storage rack system. 3,455,469, 7-15-69, Cl. 214-16.4
Evans, Glenn C. Quick attachable and detachable core hole closing device and method of attaching same. 3,443,716, 5-13-69, Cl. 220-24.5
Evans, Grover C.; and Evans, Thomas J., to Evans, G. C., Products Corporation. Washing machine. 3,426,771, 2-11-69, Cl. 134-111.
Evans, Harry Willia. Contour pipe cutting machine. 3,451,666, 6-24-69, Cl. 266-23.
Evans, Howard J.; and Cornetet, Wendell H., Jr., to Industrial Nucleonics Corporation. Microwave waveguide moisture measurement. 3,460,031, 8-5-69, Cl. 324-58.5
Evans, J., & Son (Portsmouth) Limited: *See—*
Smith, William Eric Mortimore, 3,466,660.
Evans, James A. Automobile wash and wax assembly. 3,459,334, 8-5-69, Cl. 222-132.
Evans, James A.: *See—*
Evans, Frank M.; and Evans, James A.,3,482,740.
Evans, James G.; and Grant, Dwight W., to Bell Telephone Laboratories, Incorporated. Apparatus and method to minimize and define the effect of a transmission measuring apparatus environment in measuring transistor parameters. 3,466,545, 9-9-69, Cl. 324-158.
Evans, James L.: *See—*
Cornell, Dudley E., III; and Evans, James L.,3,480,150.
Evans, James R.; and Rowe, Thomas H., to International Business Machines Corporation. Record retrieval and record hold system. 3,435,418, 3-25-69, Cl. 340-172.5
Evans, John C.: *See—*
Evans, David B.; and Evans, John C.,3,421,475.
Evans, John L., to General Precision, Inc. Gimbal pivot. 3,420,110, 1-7-69, Cl. 74-5.5
Evans, John L., to General Precision Systems, Inc. Fluid regulator. 3,420,111, 1-7-69, Cl. 74-5.7
Evans, John L., to Singer-General Precision, Inc. Pneumatic caging. 3,457,793, 7-29-69, Cl. 74-5.1
Evans, John L., to Singer-General Precision, Inc. Apparatus for reducing gas coupling between the stator and rotor of gyroscopes. 3,468,170, 9-23-69, Cl. 74-5.
Evans, John L.; and Riordan, Hugh E., to Singer-General Precision, Inc. Constant pressure fluid regulator. 3,463,182, 8-26-69, Cl. 137-494.
Evans, John S., Jr., to Mandrel Industries, Inc. Offshore seismic streamer depth control system. 3,425,506, 2-4-69, Cl. 181-0.5
Evans, John S., Jr.; and McGhee, James E., to Mandrel Industries, Inc. Container orienter. 3,451,523, 6-24-69, Cl. 198-33.
Evans, Kenneth R., to Microwave Associates, Incorporated. Electron tube variable delay line. 3,431,453, 3-4-69, Cl. 315-3.6
Evans, Liley A. Apparatus for shucking bivalves. 3,473,191, 10-21-69, Cl. 17-74.
Evans, Louis B., to Waterous Company. Noise suppression means. 3,438,330, 4-15-69, Cl. 103-113.
Evans, Louis B.; and Berglund, Harold A., to Waterous Company. Floating pump. 3,470,822, 10-7-69, Cl. 103-35.
Evans, Lyle W., to Sylvania Electric Products, Inc. Method of forming a cathodoluminescent screen. 3,481,733, 12-2-69, Cl. 96-36.1
Evans, Martin J. Wire puller. 3,485,458, 12-23-69, Cl. 242-129.
Evans, Michael Ernest Newcombe: *See—*
Bailey, Colin; and Evans, Michael Ernest Newcombe,3,467,362.
Evans, Monroe. Pipe joining device. 3,471,919, 10-14-69, Cl. 29-237.
Evans, Nolan E., to National Mine Service Company. Mining machine windrow shield. 3,475,057, 10-28-69, Cl. 299-57.
Evans, Norval T. Tightening device for rope and the like. 3,467,994, 9-23-69, Cl. 24-71.2
Evans, Palmer D., to Westinghouse Electric Corporation. Cranking system for a gas turbine. 3,485,041, 12-23-69, Cl. 60-39.14
Evans, Paul F.: *See—*
Baskin, Herbert B.; Evans, Paul F.; and Rittenhouse, Larry E.,3,461,449.
Lahr, Roy J.; Evans, Paul F.; and Lees, Harold D.,3,459,946.
Evans, Philip Henry, to Fowler, Fred, Limited, mesne. Manufacture of elongated articles of noncircular cross sectional shape such as for example twist drills. 3,427,845, 2-18-69, Cl. 72-64.
Evans, Philip H., to BSR Limited. Tape-playing apparatus. 3,450,323, 6-17-69, Cl. 226-176.
Evans, Philip S., 3rd, to Waterbury Foundry Company, The. Vault or manhole cover assembly. 3,455,059, 7-15-69, Cl. 49-397.
Evans, Philip, to Dorr-Oliver Incorporated. Filter and method of filtering. 3,485,366, 12-23-69, Cl. 210-77.
Evans, Phillip W.: *See—*
Eisenhauer, Roy J.; and Evans, Phillip W.,3,479,389.
Evans Products Company: *See—*
Dreazy, Francis E.; and Kreeger, Vinton L., Jr., 3,486,919.
Hyatt, Floyd A., 3,465,692.
Matyas, Tibor; and Moorehead, John P., 3,476,041.
Sharp, Floyd M., 3,433,179.
Shook, Jackson A., 3,433,180.
Zenczak, Piotr, 3,450,571.
Evans, Raymond B.; Kruger, Leo H.; and Szymanski, Chester D., to National Starch and Chemical Corporation. Inhibited starch products. 3,463,668, 8-26-69, Cl. 127-32.
Evans, Raymond Victor; and Hibbitt, John Edward, to Singer-Cobble Limited. Laminated tube sections. 3,468,140, 9-23-69, Cl. 68-175.
Evans, Raymond Victor; and Lund, Ernest Kenneth, to Singer-Cobble Limited. Web supporting rollers. 3,452,913, 7-1-69, Cl. 226-177.
Evans, Reginald David; and Knights, Peter Brian, to International Synthetic Rubber Company Limited, The. Hydrostatic densitometer. 3,422,682, 1-21-69, Cl. 73-438.
Evans, Richard A., to Honeywell Inc. Control apparatus. 3,451,408, 6-24-69, Cl. 137-81.5
Evans, Richard A.: *See—*
Hokanson, Carl G., Sr.; and Evans, Richard A.,3,481,322.
Evans, Richard J.: *See—*
Deichert, James W.; and Evans, Richard J.,3,464,178.
Evans, Richard J., to Armstrong Cork Company. Seam sealer. 3,472,725, 10-14-69, Cl. 156-579.
Evans, Richard L., to Du Pont de Nemours, E. I., and Company. Removing aromatic hydrocarbons from carboxymethyl cellulose. 3,451,999, 6-24-69, Cl. 260-232.
Evans, Robert B.: *See—*
Weir, James F., 3,462,031.
Evans, Robert G., Company: *See—*
Haase, Victor H., 3,445,968.
Haase, Victor H.; and Harclerode, John R., 3,464,737.
Evans, Robert J.; and Taylor, Keith M., to Monsanto Company. Production of acrylonitrile. 3,449,399, 6-10-69, Cl. 260-465.9
Evans, Robert J.; and Taylor, Keith M., to Monsanto Company. Production of acrylonitrile. 3,449,400, 6-10-69, Cl. 260-465.9
Evans, Robert J.; and Taylor, Keith M., to Monsanto Company. Production of acrylonitrile. 3,449,401, 6-10-69, Cl. 260-465.9
Evans, Robert J.; and Taylor, Keith M., to Monsanto Company. Production of acrylonitrile. 3,449,402, 6-10-69, Cl. 260-465.9
Evans, Robert J.; and Taylor, Keith M., to Monsanto Company. Production of acrylonitrile. 3,471,547, 10-7-69, Cl. 260-465.9
Evans, Robert J.; and Taylor, Keith M., to Monsanto Company. Production of acrylonitrile. 3,472,890, 10-14-69, Cl. 260-465.9
Evans, Robert T.: *See—*
Cefarelli, Frank P.; and Evans, Robert T.,3,474,385.
Evans, Robley D. Method of and apparatus for determining the distance and/or angles between objects with the aid of radiant energy. 3,430,243, 2-25-69, Cl. 343-112.
Evans, Robley W., to Rex Chainbelt Inc. Curved rubber bricks. 3,425,535, 2-4-69, Cl. 198-220.
Evans, Roger A.: *See—*
Chiang, Robert; Evans, Roger A.; and Rhodes, Jerome H.,3,429,861.
Evans, Royce F., to Tele-Quick Corporation. Apparatus and method for repairing equipment. 3,437,390, 4-8-69, Cl. 312-237.
Evans, Seymour: *See—*
Katavolos, William; and Evans, Seymour,3,427,446.
Evans, Sheldon C.: *See—*
Baumann, Hans D., 3,485,474.
Evans, Thomas, deceased0 (by Becker, Ralph H. L., Mrs.; executrix), to Baker Perkins, Inc. Continuous centrifugal filter construction. 3,437,209, 4-8-69, Cl. 210-374.
Evans, Thomas J.: *See—*
Evans, Grover C.; and Evans, Thomas J.,3,426,771.
Evans, Thomas R.; and Gesick, Norman S., to Valley Metallurgical Processing Company Incorporated. Production of encapsulated powders. 3,447,950, 6-3-69, Cl. 117-100.
Evans, Thomas, to Case, J. I., Company. Feeder drive mechanism. 3,444,673, 5-20-69, Cl. 56-1.
Evans, Thomas, to Case, J. I., Company. Corn harvester. 3,470,682, 10-7-69, Cl. 56-105.
Evans, Trevor Gwilym; and Ryder, Geoffrey Alan, 1/3 to Michael, James. Screw-threaded bottle closures. 3,480,170, 11-25-69, Cl. 215-43.
Evans, Wayne Wheeler, to RCA Corporation. Automatic frequency control system. 3,469,025, 9-23-69, Cl. 178-5.8
Evans, Wayne; Marcucci, Rudolph; and Gates, Paul, to Sylvania Electric Products, Inc. Arc discharge envelope and method of making same with three butted glassy tubes. 3,466,488, 9-9-69, Cl. 313-220.
Evans, William E. R.: *See—*
Mosebach, Wolfgang; Evans, William E. R.; and Stevens, Richard S.,3,470,307.

Evans, William L., to Du Pont de Nemours, E. I., and Company. Polyvinyl acetate binder for crystalline explosive. 3,428,502, 2-18-69, Cl. 149-19.
Evans, William Robert, to AMP Incorporated. Bundle tie. 3,438,095, 4-15-69, Cl. 24-16.
Evans, William Robert, to AMP Incorporated. Hermaphroditic contact. 3,439,311, 4-15-69, Cl. 339-47.
Evans, William Robert, to AMP Incorporated. Miniature electrical connector. 3,439,316, 4-15-69, Cl. 339-258.
Baer, Charles E., Jr.; Evans, William; and Malinowski, Eugene,3,436,235.
Evdokimov, Georgy Stepanovich: *See—*
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich,3,447,625.
Evel, Eddie A.: *See—*
Knauber, Ronald L.; and Evel, Eddie A.,3,449,687.
Eveland, Baisel L.; Hart, Joseph C.; and Masterson, Earl E., to Honeywell Inc. Transport arrangement. 3,420,518, 1-7-69, Cl. 271-68.
Evening News Publishing Company: *See—*
Illingworth, Robert H., 3,446,696.
Evens, Robert L.; Lewis, Douglass H.; and Chew, Norman Bradford, to Freightliner Corporation. Pre-cleaner assembly for air induction system. 3,436,900, 4-8-69, Cl. 55-385.
Evensen, David A.; and Raney, John P., to United States of America, National Aeronautics and Space Administration. Buoyant anti-slosh system. 3,443,584, 5-13-69, Cl. 137-582.
Evensen, Ingwald M. Method of making a paint roller. 3,433,693, 3-18-69, Cl. 156-242.
Evenson, Lucille B.: *See—*
Evenson, Robert B., deceased; Mac Quoid, George E.; and Evenson, Lucille B.; executrix,3,484,973.
Evenson, Robert B., deceased; Mac Quoid, George E.; and Evenson, Lucille B.; executrix. Illuminated free-swinging signboard. 3,484,973, 12-23-69, Cl. 40-128.
Ever Ready Company (Great Britain) Limited, The: *See—*
Knight, Geoffrey Peter, 3,420,714.
Knight, Geoffrey Peter, 3,449,171.
Everest & Jennings, Inc.: *See—*
Malherbe, Edward P., 3,419,922.
Everett, Charles V.: *See—*
Pool, Stuart D.; Everett, Charles V.; and Grillot, Homer N.,3,469,773.
Sammarco, Peter; and Everett, Charles V.,3,425,599.
Everett, George, to Stanley Works, The, mesne. Automatic inspection device. 3,432,033, 3-11-69, Cl. 209-73.
Everett, Hazen F. Blood oxygenator. 3,466,148, 9-9-69, Cl. 23-258.5
Everett, James F. B., to Armstrong Cork Company. Sealing system for containers. 3,446,380, 5-27-69, Cl. 215-39.
Everett, Lilian F., to Texfoam International Limited. Resilient materials. 3,464,872, 9-2-69, Cl. 156-79.
Everett, Lynn E., to Childs Equipment Co. Shelf construction. 3,469,543, 9-30-69, Cl. 108-144.
Everett, Milton C., to Kastar, Inc. Fluid dispensing apparatus. 3,462,082, 8-19-69, Cl. 239-332.
Everett, Wilhelm S. Sound muting and filtering device. 3,454,129, 7-8-69, Cl. 181-56.
Everett, Wilhelm S. Fluid pulsation dampener with thimble. 3,470,979, 10-7-69, Cl. 181-56.
Everett, William J., Jr., to Pioneer Parachute Company, Inc. Gliding parachute. 3,428,277, 2-18-69, Cl. 244-142.
Evergreen Helicopters, Inc.: *See—*
Smith, Delford M.; and Eason, Ward, 3,463,398.
Everhard, Frederic U.; and Hartwell, Robert E., to RCA Corporation. Gas sampler. 3,461,727, 8-19-69, Cl. 73-421.5
Everhard, Fredric U., to RCA Corporation. Electrically operated throttle device. 3,465,790, 9-9-69, Cl. 138-45.
Everhart, Clifford R.; and Cary, Audra B., 1/2 to Midwest Chemical & Processing Co., Inc., and 1/2 to Skelly Oil Company. Method of removing paraffin from a well with heated solvent. 3,437,146, 4-8-69, Cl. 166-40.
Everhart, Clifford R.; and Midwest Chemical & Processing Co., Inc. Chromate corrosion inhibiting composition containing surface-active agents. 3,445,400, 5-20-69, Cl. 252-389.
Everhart, John R.: *See—*
Conrad, Lucas J.; and Everhart, John R.,3,479,852.
Everhart, John R., to Reynolds, R. J., Tobacco Company. High speed cigarette turnaround and conveyor drum. 3,485,337, 12-23-69, Cl. 198-32.
Everhart, Thomas E., to Ampex Corporation. Electron beam thermoplastic recorder with conductor coated thermoplastic recording medium. 3,430,255, 2-25-69, Cl. 346-74.
Everlast World's Boxing Headquarters Corporation:*See—*
Golomb, David L., 3,466,039.
Everpure Inc.: *See—*
Jasionowski, Walter J., 3,442,800.
Evers, Heinz, to Insterstabella A.G. Device for filling sterile liquids, especially carbon dioxide containing beverages, into sterile bottles made of synthetic material. 3,479,793, 11-25-69, Cl. 53-112.
Evers, Konrad, to Sulzer Brothers Limited. Positively operated steam generator. 3,452,722, 7-1-69, Cl. 122-448.
Evers, Manfred, to Compagnie de Saint-Gobain. Method and apparatus for strengthening glass by ion exchange. 3,486,995, 12-30-69, Cl. 204-130.
Evers, Robert S.; and Minter, Mearl J., to Rolscreen Company. Operating linkage for windows and the like. 3,438,151, 4-15-69, Cl. 49-345.
Evers, William L.: *See—*
Stackman, Robert W.; and Evers, William L.,3,423,333.
Eversberg, Hans: *See—*
vom Dorp, Walter; and Eversberg, Hans,3,456,475.
Eversharp, Inc.: *See—*
Bombero, Thomas F., 3,461,553.
Dawidowicz, Jan, 3,453,733.
Dawidowicz, Jan; Kuhnl, Leopold K.; Bombero, Thomas F.; and Ferraro, Frank A., 3,456,342.
Dawidowicz, Jan; Ferraro, Frank A.; and Kuhnl, Leopold K., 3,466,746.
Flowers, Theodore R., 3,446,401.
Kuhnl, Leopold Karl, 3,435,521.
Larson, George G., 3,458,267.
Larson, George G., 3,475,104.
Evershed & Vignoles Limited: *See—*
Young, Ian R.; Keefe, Arthur T.; and Moss, Geoffrey, 3,475,727.
Eversman, Carl A. Water diverter system. 3,465,368, 9-9-69, Cl. 4-148.
Eversole, Charles L.: *See—*
Estes, Nelson N.; Hannah, Kenneth W.; Anderson, Charlie D.; and Eversole, Charles L.,3,454,258.
Eversole, James F. Light polarizing structure and process therefor utilizing cylindrical-shaped cavities with an isotropic sheet. 3,458,248, 7-29-69, Cl. 350-152.
Everson, William R., to Armstrong Cork Company. Beam mounted attaching device. 3,459,399, 8-5-69, Cl. 248-343.
Everts, George G. Overshoe fasteners. 3,431,604, 3-11-69, Cl. 24-68.
Everts, Jack A.: *See—*
Smith, Henry M.; and Everts, Jack A.,3,469,576.
Every, Richard L.: *See—*
Grimsley, Ralph Leroy; and Every, Richard L.,3,472,618.
Grimsley, Ralph Leroy; and Every, Richard L.,3,483,267.
Hughes, Ralph C.; and Every, Richard L.,3,456,987.
Every, Richard L.; and Banks, William P., to Continental Oil Company. Reference electrodes of particular utility in anodic corrosion protection systems. 3,462,353, 8-19-69, Cl. 204-147.
Every, Richard L.; and Grimsley, Ralph Leroy, to Continental Oil Company. Producing sulfur from hydrogen sulfide- containing gases. 3,445,181, 5-20-69, Cl. 23-2.
Every, Richard L.; Thieme, James O.; and Casad, Burton M., to Continental Oil Company. Selective precipitation of potassium chloride from brine using organoamines. 3,437,451, 4-8-69, Cl. 23-300.
Eveson, Geoffrey Frank; and Thompson, Alfred, to Head, Wrightson & Company Limited. Fluidised-bed apparatus. 3,471,016, 10-7-69, Cl. 209-470.
Evesque, Roger A., to Seaquist Valve Company, Division of Pittsburgh Railways Company. Aerosol valve having swirl chamber. 3,433,419, 3-18-69, Cl. 239-470.
Evesque, Roger A., to Seaguist Valve Company, division of Pittsburgh Railways. Eccentric connecting means between a dip tube and an aerosol valve. 3,472,531, 10-14-69, Cl. 285-27.
EVG Entwicklung- und Verwertungsgesellschaft m.b.H.: *See—*
Gott, Hans; and Ritter, Josef, 3,431,952.
EVG Entwicklungs- und Verwertungsgesellschaft m.b.H.: *See—*
Gott, Hans; and Ritter, Josef, 3,469,055.
Sackl, Alois, 3,423,982.
Sommeregger, Heinz; and Gott, Hans, 3,424,888.
Evkin, Ivan Frolovich. Falling film evaporator. 3,472,304, 10-14-69, Cl. 159-6.
Evleth, Earl M.; and Herrick, Clifford E., Jr., to International Business Machines Corporation. Diazo type films with extended linear latitude. 3,484,241, 12-16-69, Cl. 96-49.
Evog, Etablissement fur Verwaltung: *See—*
Schuler, Rolf, 3,480,443.
Evrard, Robert, to U.S. Philips Corporation, mesne. Pressure measuring instrument. 3,472,078, 10-14-69, Cl. 73-398.
Evras, David J. Nonleak, nonspillable bottle cap. 3,439,846, 4-22-69, Cl. 222-494.
Evteev, Dmitry Petrovich: *See—*
Butkevich, Vladimir Alexandrovich; Evteev, Dmitry Petrovich; Karpeka, Viktor Alexandrovich; Pravdin, Viktor Sergeevich; and Isjun, Alexandr Kononovich,3,438,425.

Evtjutov, Anatoly Akindinovich: *See—*
Telyatnikov, Garry Vladimirovich; Khodorov, Evgeny Iosifovich; Evtjutov, Anatoly Akindinovich; Skopa, Denis Denisovivh; Chervinsky, Anatoly Alexeevich; Shilov, Alexandr Vladimirovich; and Kazantseva, Nina Mikhailovna,3,444,628.

Evtuhov, Viktor, to Hughes Aircraft Company. Longitudinal mode controlled laser. 3,471,799, 10-7-69, Cl. 331-94.5

Ewald, John F., Jr.: *See—*
Ludwig, Warren B.; Elerath, Byron E.; and Ewald, John F., Jr.,3,443,324.

Ewald, John N., Jr. Method for cleaning toilet bowls. 3,480,021, 11-25-69, Cl. 134-24.

Ewald, William P., to Eastman Kodak Company. Method for aligning the surfaces of two spaced members. 3,485,561, 12-23-69, Cl. 356-154.

Ewart, George; and Raitt, John Stewart, to Scottish Agricultural Industries Limited. Water-soluble polyphosphate and method of preparation. 3,432,261, 3-11-69, Cl. 23-107.

Ewasko, Adolph J. Attachment for uniform dispersal of the grass mulch. 3,473,306, 10-21-69, Cl. 56-25.4

E. W. Bliss Company: *See—*
Countess, Clem C., Jr.; and Rymsza, Daniel T., 3,422,660.

Ewers, Bruce E.: *See—*
Tuck, Lee; and Ewers, Bruce E.,3,446,055.

Ewers, Gerald M., to Westinghouse Electric Corporation. Ice cube tray. 3,443,785, 5-13-69, Cl. 249-53.

Ewers, Josef: *See—*
Faltings, Volkert; and Ewers, Josef,3,420,893.

Ewerwahn, Werner J. Method of covering splints for human limbs and cover- ings for the carrying out of this method. 3,472,224, 10-14-69, Cl. 128-87.

Ewin, James C., to Bell Telephone Laboratories, Incorporated. Communication system with alternate data link. 3,420,958, 1-7-69, Cl. 179-18.

Ewin, William H.: *See—*
McCutcheon, Samuel R.; Belleville, Logan M.; and Ewin, William H.,3,461,386.

Ewing, Alvin Lenwood, to Du Pont de Nemours, E. I., and Company. Windup chuck. 3,471,095, 10-7-69, Cl. 242-46.5

Ewing, Joan R., to Xerox Corporation. Image resolution. 3,443,937, 5-13-69, Cl. 96-1.1

Ewing, Joan R., to Xerox Corporation. Fixing of deformation images. 3,482,969, 12-9-69, Cl. 96-1.1

Ewing, John I.; and Zaunere, Roger L., to United States of America, Navy, mesne. Fairings for underwater cables, towlines and structural members. 3,472,196, 10-14-69, Cl. 114-235.

Ewing, Keith E.: *See—*
Herbst, Darwyn L.; and Ewing, Keith E.,3,477,055.

Ewing, Walkley B., to Sunscreen Corporation, mesne. Method of forming an extruded sunscreen. 3,437,538, 4-8-69, Cl. 156-167.

Ewing-Record & Associates, Inc.: *See—*
Curry, Winstor W., 3,437,305.

E. W. Mold & Tool Co., Inc.: *See—*
Wilds, Robert W.; and Meyer, Robert E., 3,473,197.

Ex-Cell-O Corporation: *See—*
Crawford, Duncan James, 3,471,076.
Drushel, Robert W., 3,471,750.
Earp, James F., 3,426,501.
Egleston, Harry B., 3,464,326.
Egleston, Harry B.; and Feliks, James J., 3,474,951.
Floyd, George W., 3,471,852.
Heldt, Norman A., 3,427,035.
Laughman, Ralph W., 3,426,654.
Leone, William C., 3,460,115.
Leu, Gilbert, 3,441,832.
Malone, Robert Lee, 3,444,358.
Smith, Joseph E., Jr., 3,422,411.

Exact Weight Scale Corporation: *See—*
Marshall, Donald G., 3,443,653.

Excel Corporation: *See—*
Deisenroth, Robert J., 3,468,738.
Hodgen, Loran M., 3,430,333.
Shockey, Howard J., 3,440,121.
Shockey, Howard J., 3,440,315.
Shockey, Howard J., 3,444,023.

Exchange Telegraph Company Limited, The: *See—*
Rumsey, Kenneth George; and Greasby, Michael John, 3,461,236.

Executermatic, Inc.: *See—*
Kraus, Charles E., 3,486,391.

Executive Line, Inc., The: *See—*
Jack, Charles W., 3,432,942.

Executone, Inc.: *See—*
Sontag, Howard M.; and Bernhardt, Milton, 3,475,751.

Exline, Inc.: *See—*
Exline, William C.; Kenworthy, Clarence S.; and Warner, Willard E., 3,442,260.

Exline, William C.; Kenworthy, Clarence S.; and Warner, Willard E., to Exline, Inc. Temperature-responsive apparatus for pressure fluid power shut-off systems for engines, compressors and the like. 3,442,260, 5-6-69, Cl. 123-198.

Exner, Lawrence J.: *See—*
deBenneville, Peter L.; and Exner, Lawrence J.,3,473,901.

Exotech Incorporated: *See—*
Cooley, William C., 3,465,639.
Cooley, William C., 3,468,217.
Cooley, William C., 3,468,481.
Cooley, William C., 3,478,966.

Expandet S.A.: *See—*
de Kyvon, Robert Lestrade Carluer, 3,461,770.

Expandite Limited: *See—*
Berks, Colin John, 3,430,544.

Expando Seal Tool, Inc.: *See—*
Martin, John E.; and Czeck, Julian G., 3,473,555.

Experiment Establishment of Anges: *See—*
Grange, Bernard; Long, Charles-Jean; Jugue, Bernard; and Mallet, Roger, 3,446,176.

Experimentalny Nauchno-Issledovatelsky Institute Metallorezhvshchikh Stankov: *See—*
Livshits, Abram Lazarevich; Rogachev, Ivan Sergeevich; Sosenko, Alexandr Borisovich; and Benin, Vladimir Lvovich, 3,430,025.
Livshits, Abram Lazarevich; Aronov, Anatoly Lzrailevich; Kravets, Arkady Timofeevich; and Sosenko, Alexandr Borisovich, 3,467,807.

Experimentoy Corporation: *See—*
Spilhaus, Athelstan F., 3,442,522.
Spilhaus, Athelstan F., 3,446,999.

Explosive Technology, Inc.: *See—*
Burkdoll, Francis B.; and Hannagan, Harold W., 3,454,245.
Heidemann, William B.; and Weaver, George W., 3,460,477.
Olander, Donald Edgar, 3,480,489.

Explosives Corporation of America: *See—*
Abbott, Albert F.; Haskin, Bruce J.; and Klopich, Marshall E., 3,444,811.

Expo-Nord AB: *See—*
Persson, Eric S.; and Persson-Melin, Signe Harriett, 3,474,577.

Export Corporation of Canada Limited, The: *See—*
Morris, Arthur R.; Provencher, Camille L.; and Silverman, Sydney, 3,426,398.

Express Dairy Company (London) Limited: *See—*
Hudson, Clifford Harold; Ashton, Thomas Richard; Cottle, Victor Claude Herbert; and Jackson, David, 3,466,850.
Jackson, David, 3,480,402.

Extar Company: *See—*
Mayrand, Louis Philip, 3,475,533.

Extek, Inc.: *See—*
Wolf, Margery S.; and Beispel, Robert, 3,468,606.

Exton, Norman T., to KLM Company. Closures and methods of making the same. 3,482,725, 12-9-69, Cl. 215-43.

Exworthy, Kenneth W., to Honeywell Inc. Electrostatic voltmeter having various sized input electrodes to provide plural ranges. 3,427,540, 2-11-69, Cl. 324-109.

Eyb, Wolfgang: *See—*
Porsche, Ferdinand Anton Ernst; and Eyb, Wolfgang,3,460,644.

Eyberg, Donald T.: *See—*
Bukkila, Charles J.; Eyberg, Donald T.; Lemke, John S.; and Olson, Raymond M.,3,469,560.

Eyberger, Harry, to Magnetics, Inc. Magnetic core having tapered configuration. 3,430,172, 2-25-69, Cl. 335-297.

Eyberger, Harry, to Vamco Machine and Tool, Inc. Self-contained feed roll for power punch presses. 3,483,782, 12-16-69, Cl. 83-202.

Eychaner, Thomas L., to Sperry Rand Corporation. Push-pull electron beam positioning system. 3,421,046, 1-7-69, Cl. 315-27.

Eyedam, Homer F.: *See—*
Boyer, Ralph K.; Eyedam, Homer F.; and Krohn, Henry W.,3,422,837.

Eyer, Bird A. Combination golf shoe calk maintenance kit and money clip. 3,447,171, 6-3-69, Cl. 7-1.

Eyler, Denver: *See—*
Connerat, Edwin B., 3,421,454.

Eyles, William Geoffrey: *See—*
Woodley, Frank John; and Eyles, William Geoffrey,3,469,150.

Eylure Limited: *See—*
Aylott, David H., 3,483,637.
Aylott, Eric Victor, 3,485,344.

Eyman, Ralph A., to Martin-Marietta Corporation. Double integrating accelerometer. 3,447,382, 6-3-69, Cl. 73-490.

Eyraud, Yvan, to Compagnie Generale d'Electricite. Machine for making electrical cable. 3,451,203, 6-24-69, Cl. 57-6.

Eyre, Donald: *See—*
Wilde, Geoffrey Light; and Eyre, Donald,3,462,953.

Eyrich, Karl Werner, to Gesellschaft fur Kernforschung m.b.H. Method for the preparation of films containing radioactive materials and mounted on carriers. 3,486,935, 12-30-69, Cl. 117-220.

Eyselee, Wolfgang M.: *See—*
Stutz, Klaus H.; and Eyselee, Wolfgang M.,3,473,454.

Eyzat, Pierre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Double injection apparatus for a compression ignition motor. 3,439,655, 4-22-69, Cl. 123-32.
Ezard, Lawrence A.: *See—*
Stoudenheimer, Richard G.; and Ezard, Lawrence A.,3,474,275.
Ezawa, Takayoshi: *See—*
Yoshiyama, Yuji; and Ezawa, Takayoshi,3,473,378.
Ezekiel, Freddy Jacob: *See—*
Schaverien, Louis Joseph, 3,456,462.
Ezekiel, Frederick D.; and Miller, Richard W., to Foxboro Company, The. In-line flow powered viscometer. 3,465,574, 9-9-69, Cl. 73-59.
Ezekiel, Herbert M., to National Cash Register Company, The. Article having an expandable and rigidizable com- pacted flexible material. 3,435,947, 4-1-69, Cl. 206-47.
Ezell, Harry Elmer. Truss. 3,426,498, 2-11-69, Cl. 52-695.
Ezolt, James J., to Grove Manufacturing Company, mesne. Slidable and tiltable truck bed. 3,450,282, 6-17-69, Cl. 214-505.
E Z Paintr Corporation: *See—*
Burns, Fredrick B.; D'Ercoli, Giacinto C.; and Mlachnik, Albert A., 3,473,183.
Burns, Fredrick B.; and Walsh, Vincent T., 3,474,482.
Ezyk, Irving J.: *See—*
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J.,3,421,351.
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J.,3,468,146.
Ezzell, Robert C., to Phillips Petroleum Company. Fractionator overhead and reflux control system with optional accumulator by-pass. 3,475,288, 10-28-69, Cl. 203-1.
F & E Manufacturing Company: *See—*
Francis, Joseph E.; and Amey, Arnold L., 3,465,735.
James, George A., 3,433,132.
F & F Enterprises Inc.: *See—*
Farrell, Guy M.; Gaber, Richard B.; Podgorski, Matthew C.; and Whitlock, Morris N., 3,471,663.
F'Geppert, Erwin; and Lugoski, Arnold N., to United States of America, Army. Cascaded universal joint. 3,464,231, 9-2-69, Cl. 64-18.
Faaborg-Andersen, Axel Valdemar; and Jensen, Poul, to Aktieselskabet de Danske Sukkerfabrikker. Lixiviating apparatus. 3,433,598, 3-18-69, Cl. 23-270.
Faarup, Peter: *See—*
Borrevang, Poul; and Faarup, Peter,3,445,461.
Fab-Con Machinery Development Corporation: *See—*
Catallo, Frank, 3,479,706.
Fabbrica d'Armi Pietro Beretta S.p.A.:*See—*
Beretta, Carlo Pietro, 3,420,140.
Fabbrica Italiana Magneti Marelli S.p.A.: *See—*
Alfieri, Giuseppe, 3,463,557.
Testerini, Francesco, 3,449,613.
Vadala, Teodoro, 3,443,556.
Faber, Eberhard, Inc.: *See—*
Strickler, Frederick W., 3,468,613.
Faber, Elmer L., to Deco Tools, Inc. Decorative coating machine. 3,422,794, 1-21-69, Cl. 118-301.
Faber, Jan W. H.: *See—*
Klanderman, Bruce H.; and Faber, Jan W. H.,3,457,235.
Faber, Peter, to Rheinisch-Westfalisches Elektrizitatswerk Aktiengesellschaft. Process for the production of electrically active high-valent nickel compounds. 3,436,267, 4-1-69, Cl. 136-29.
Faber, Peter, to Rheinisch-Westfalisches Elektrizitatswerk Aktiengesellschaft. Method of making an electrode grid. 3,476,604, 11-4-69, Cl. 136-36.
Faber, Saul. Golf ball retriever. 3,442,544, 5-6-69, Cl. 294-19.
Faberes, Pierre; and Ribadier, Georges, to CSF-Compagnie Generale de Telegraphie Sans Fil. Control devices for direct-viewing memory tubes. 3,480,824, 11-25-69, Cl. 315-12.
Fabian, Heinz: *See—*
Volker, Ulrich; Fabian, Heinz; and Mertl, Klaus,3,485,331.
Fabianke, Hartmut: *See—*
Baur, Hans; and Fabianke, Hartmut,3,480,732.
Fabick Machinery Company: *See—*
Chestosky, Robert, 3,437,049.
Fabio, Paul Frank: *See—*
Tomcufcik, Andrew Stephen; Hoffman, Arlene May; and Fabio, Paul Frank,3,452,034.
Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M.,3,468,892.
Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M.,3,481,935.
Fabish, Edward F., to Illinois Tool Works Inc. Fluted cutting tool and method of producing a plurality of tools from a single fluted bar. 3,483,605, 12-16-69, Cl. 29-103.
Fabko Engineering Company, Inc.: *See—*
Fritz, William E., 3,482,741.
Fabre, Jean; and Millet, Jacques F., to Electricite De France (Service National). Process and apparatus for overoxidising the air supplied to the blowpipe of a magnetohydrodynamic conversion plant. 3,432,693, 3-11-69, Cl. 310-11.
Fabre, Pierre Marius Antoine. Metering pump for powder materials. 3,485,535, 12-23-69, Cl. 302-50.
Fabri, Jean; Friberg, Jean Marie Eugene; Maginot, Pierre Henri Jean; Merigoux, Jean Marie; and Siestrunck, Raymond, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques, de Telecommunications et d'Electronique 'Alcatel'. Supersonic compressor. 3,447,740, 6-3-69, Cl. 230-119.
Fabri-Tek Incorporated: *See—*
Baillargeon, Marlin P., 3,427,711.
Rausch, William V.; and Calderon, Arthur, Jr., 3,458,426.
Walstrom, Leslie R., 3,454,218.
Wolford, Ronald J., 3,453,608.
Fabric Bearings Limited: *See—*
Spence, Iain S., 3,475,923.
Fabric Research Laboratories, Inc.: *See—*
Constantine, Thomas T., 3,426,407.
Fabricacion de Maquinas: *See—*
Martin, John, 3,420,651.
Martin, John, 3,424,378.
Martin, John, 3,433,615.
Martin, John, 3,438,763.
Martin, John, 3,466,722.
Martin, John, 3,477,837.
Martin, John, 3,484,227.
Fabricas de Papel Loreto y Pena Pobre S.A.: *See—*
Tirado, Adalberto; Guevara, Mario; and Gonzalez, Virgilio, 3,451,889.
Fabricated Metals, Inc.: *See—*
Coleman, Clarence B., 3,451,419.
Fabricius, John H.: *See—*
Burks, Darnall P.; and Fabricius, John H.,3,471,753.
Fabrik Elektrischer Apparate Sprecher & Schuh A.G.: *See—*
Roth, Adrian Werner, 3,430,062.
Fabrik fur Firestone Produkte AG: *See—*
Siegenthaler, Karl, 3,485,128.
Fabriks AB Forslund & Co.: *See—*
Johansson, Fritz Agne, 3,473,616.
Fabrique de Machines Mikron S.A.: *See—*
Naville, Raymond, 3,435,697.
Fabrique d'Edauches de Bettlach:*See—*
Bachmann, Peter, 3,457,720.
Fabrique d'horlogerie Chs. Tissot et fils S.A.:*See—*
Schneider, Jean Claude, 3,473,507.
Fabrique d'Horlogerie chs. Tissot et Fils S.A., Le Locle:*See—*
Schneider, Jean-Claude, 3,460,339.
Fabrique d'Horlogerie Lemania, Lugrin S.A.:*See—*
Piguet, Albert, 3,430,434.
Fabrique Nationale d'Armes de Gerre, Societe Anonyme:*See—*
Fontaine, Leon, 3,446,042.
Fabrique Nationale d'Armes de Guerre, Societe Anonyme:*See—*
Stassart, Joseph Antoine Marie, 3,431,801.
Vervier, Ernest Henri, 3,440,925.
Fabriques de Produits Chimiques de Thann et de Mulhouse: *See—*
Fehr, Bernard Henri Paul; and Gascon, Joseph, 3,445,199.
Figuet, Maurice Germain; and Mas, Robert Jean, 3,481,697.
Mas, Robert Jean; and Michaud, Andre Louis, 3,436,180.
Portes, Pierre J. H. L.; Richerd, Jacques; and Mas, Robert, 3,437,565.
Fabriques Movado & Manufacture des Montres Universal Perret Freres S.A.: *See—*
Favre, Robert, 3,463,948.
Fabriques Reunies de Lampes Electriques: *See—*
Deiss, Claude, 3,441,778.
Fabris, Wilhelm V., to Siemens Aktiengesellschaft. Magnetic tape device for high tape speeds. 3,430,833, 3-4-69, Cl. 226-195.
Fabrize, Romayne. Paint shaking device. 3,464,675, 9-2-69, Cl. 259-75.
Fabry, Gerard: *See—*
Algrain, Andre; and Fabry, Gerard,3,460,303.
Fabry, Joseph W., Jr.: *See—*
Breedlove, William W.; and Fabry, Joseph W., Jr.,3,432,130.
Fabryka Maszn Papierniczych: *See—*
Krzewinski, Zbigniew; Franciszczak, Eugeniusz; Jerzykiewicz, Jerzy; and Kostrzewski, Janusz, 3,464,635.
Faccone, Joseph A.: *See—*
Winchester, Charles M.; Faccone, Joseph A.; and Webb, Stephen F.,3,476,591.
Faccou, Armand L., to FMC Corporation. Swivel joint wih adjustable packing. 3,420,555, 1-7-69, Cl. 285-276.
Faccou, Harlan N.: *See—*
Ettore, Harold V.; Ashby, Frederick R.; and Faccou, Harlan N.,3,475,261.
Facer, Walter K.; and Rigo, Jane H. M., to United States Steel Corporation. Fluidizing chamber. 3,476,081, 11-4-69, Cl. 118-620.
Fachini, Robert M.: *See—*
Clendenin, Wilbur H.; Barrett, Monroe C.; Kenna, Fenton L, Jr.; and Fachini, Robert M.,3,446,370.
Graham, Robert L.; Fachini, Robert M.; and Kenna, Fenton L., Jr.,3,478,898.

Facit AB: *See—*
Ek, Birger Henrik; and Stenudd, Even Gunnar Walter, 3,478,629.
Grip, Erik Konrad, 3,451,617.
Grip, Erik Konrad, 3,484,041.
Facit-Halda AB: *See—*
Svensson, Harald, 3,467,420.
Faciu, Thomas F.: *See—*
Engalitcheff, John, Jr.; Faciu, Thomas F.; and Bradley, Wilson E., Jr.,3,437,319.
Facius, Thomas F.: *See—*
Engalitcheff, John, Jr.; Facius, Thomas F.; Bradley, Wilson E., Jr.; and Anderson, Axel F. L.,3,442,494.
Fackler, George E., to Xerox Corporation. Document feed belt. 3,482,676, 12-9-69, Cl. 198-193.
Factories Direction Limited: *See—*
Reissner, Edgar Wilhelm, 3,436,290.
Fadden, James P.; and Moore, Frederick L., to Armco Steel Corporation. Magnetic bridle unit for winding steel strip. 3,433,398, 3-18-69, Cl. 226-93.
Fader, Marshall Lloyd: *See—*
Atkinson, Roger Lee; and Fader, Marshall Lloyd,3,438,737.
Fadler, Walter, to Wiener Schwackstromwerke Gesellschaft mbH. Melting crucible having expandable top. 3,471,139, 10-7-69, Cl. 266-39.
Fadler, Walter, to Wiener Schwachstromwerke Gesellschaft m.b.H. Rotatable metallurgical electric furnace. 3,474,178, 10-21-69, Cl. 13-1.
Fadler, Walter, to Wiener Schwachstromwerke Gesellschaft m.b.H. Metallurgical furnace construction. 3,486,745, 12-30-69, Cl. 266-33.
Fadner, Thomas A., to Oxford Paper Company. Electric field polymerization. 3,431,137, 3-4-69, Cl. 117-93.1
Fadner, Thomas A., to Oxford Paper Company. Composite colloidal pigment particles, their formation and suspensions thereof. 3,453,131, 7-1-69, Cl. 106-308.
Faedler, Kurt: *See—*
Binder, Richard; and Faedler, Kurt,3,428,155.
Faerber, Gerhard; and Kersken, Wilhelm, to Deutsche Solvay-Werke GmbH. Polymerization catalysts containing an acycycloalkane sulfonyl peroxide, fatty acid and water. 3,466,255, 9-9-69, Cl. 260-23.
Faerber, Hans A. Confectionery moulding machines. 3,459,314, 8-5-69, Cl. 214-6.
Faerber, Hans Arthur, to Nid Pty. Limited. Loading machine. 3,422,970, 1-21-69, Cl. 214-8.5
Faerber, Hans Arthur, to Nid Pty. Limited. Depositor. 3,426,705, 2-11-69, Cl. 107-15.
Faerber, Hans Arthur, to Nid Pty., Limited. Stacking machine. 3,458,058, 7-29-69, Cl. 214-6.
Faerber, Nelson A. Building construction. 3,460,307, 8-12-69, Cl. 52-741.
Faessinger, Robert W.: *See—*
Conte, John S.; and Faessinger, Robert W.,3,420,735.
Faessinger, Robert W.; and Conte, John S., to Scott Paper Company. Vinyl graft copolymerization with a polyurethane substrate in the presence of ultra- violet light. 3,450,614, 6-17-69, Cl. 204-159.15
Fafnir Bearing Company, The: *See—*
Dickinson, Thorn W., 3,455,614.
Pethis, James J., 3,423,141.
Fagan, Raymond G. Quick release container holder. 3,429,542, 2-25-69, Cl. 248-313.
Fagan, Raymond: *See—*
Lapidus, Milton; and Fagan, Raymond,3,427,383.
Fagerstrom, Joseph W.; and Kent, William C., to Western Electric Company, Incorporated. Method of assembling a nondestructive read-out memory. 3,448,515, 6-10-69, Cl. 29-604.
Fagg, Jack R.: *See—*
Kinney, David J.; Fagg, Jack R.; and Smith, Donald P.,3,452,689.
Fahenstih, Rudolf; and Weigert, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of 2,6-diformyl-tetrahydropyran and 2-formyl-6-hydroxymethyl-tetrahydropyran. 3,441,573, 4-29-69, Cl. 260-345.9
Fahey, Denis. Treatment of materials having both liquid and solid contents. 3,463,727, 8-26-69, Cl. 210-19.
Fahey, John R., to United States Steel Corporation. Sheet metal skid assembly. 3,471,113, 10-7-69, Cl. 248-346.
Fahey, Richard J., to Consolidated Packaging Corporation. Egg carton closer. 3,456,426, 7-22-69, Cl. 53-376.
Fahimian, Edward J.: *See—*
Hurwitz, Mathew; Reynolds, John M.; and Fahimian, Edward J.,3,423,306.
Fahlenberg, Paul K. G.: *See—*
Singer, Franz; Fahlenberg, Paul K. G.; and Lermann, Peter,3,448,673.
Fahlenberg, Paul, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photoelectric operated diaphragm setting means for cameras. 3,466,447, 9-9-69, Cl. 250-210.
Fahlenberg, Paul; and Kleeberger, Klement, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Operating mechanism for photographic shutter. 3,466,993, 9-16-69, Cl. 95-63.
Fahlenberg, Paul; and Singer, Franz, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Control arrangement for photographic apparatus. 3,472,142, 10-14-69, Cl. 95-64.
Fahndrich, Gabriel: *See—*
Dumont, Marcel; and Fahndrich, Gabriel,3,481,139.
Fahrbach, Erich, to Freudenberg, Carl. Manufacture of tube electrodes. 3,462,305, 8-19-69, Cl. 136-38.
Fahrbach, Rudolf, to Universal Manufacturing Company, Inc. Winding machine control device. 3,448,935, 6-10-69, Cl. 242-4.
Fahrbach, Rudolf, to Universal Manufacturing Company, Inc. Toroidal coil winding machine. 3,459,385, 8-5-69, Cl. 242-4.
Fahre, Olav. Automatic regulating valve for ventilation plants. 3,452,762, 7-1-69, Cl. 137-499.
Fahrendorff, Curtis H., to Tonka Corporation. Toy dump truck. 3,462,879, 8-26-69, Cl. 46-214.
Faigenbaum, Roy D.; and Greczen, John, to Knitting Machinery Corp. of America. Machine for knitting a tubular cover over a hose. 3,435,635, 4-1-69, Cl. 318-331.
Faigenbaum, Roy D.: *See—*
Greczin, John; and Faigenbaum, Roy D.,3,462,976.
Faigle, Heinz. Synthetic material, for bearings and other machine elements, containing polyamides and polyolefins. 3,458,596, 7-29-69, Cl. 260-857.
Faigle, Heinz. Cooling screen. 3,485,485, 12-23-69, Cl. 261-112.
Faigle, Johann Werner: *See—*
Keberle, Heinrich; Faigle, Johann Werner; and Wilhelm, Max,3,471,548.
Fail, Jean Pierre: *See—*
Cholet, Jacques; Fail, Jean Pierre; Grau, Gerard; and Magneville, Pierre,3,444,953.
Failing Industries Incorporated: *See—*
Failing, Jay C., 3,438,450.
Failing, Jay C., to Failing Industries Incorporated. Hydraulically operated earth boring tools. 3,438,450, 4-15-69, Cl. 173-44.
Failkovsky, Vladimir Ivanovich: *See—*
Bazhenov, Petr Dmitrievich; Orekhanov, Voleslav Zakharovich; Rubets, Vladimir Gavrilovich; and Failkovsky, Vladimir Ivanovich,3,486,437.
Fain, Bobby Ray: *See—*
Comer, Marvin H.; and Fain, Bobby Ray,3,423,924.
Fain, Jacob M.; and McDonnell, Edward, to Twenty Nine Fifteenth Street Corporation. Novel water-repellent compositions. 3,433,750, 3-18-69, Cl. 260-2.
Fainer, Percy: *See—*
Wall, Robert A.; and Fainer, Percy,3,472,243.
Fainman, Morton Z.: *See—*
Bray, Ulric B.; and Fainman, Morton Z.,3,478,113.
Fair, Delbert W.: *See—*
Brown, Graydon L.; and Fair, Delbert W.,3,482,646.
Fair, Donald G.; and Anderson, Bertil T., to Sundstrand Corporation. Load energizing circuit including gating means controlled by cross-fire signals and ramp-shaped timing signals. 3,453,523, 7-1-69, Cl. 321-5.
Fair, Donald G.; and Anderson, Bertil T., to Sundstrand Corporation. Motor control circuit with deceleration control means. 3,477,006, 11-4-69, Cl. 318-331.
Fair, Richard B.: *See—*
El-Kareh, Auguste B.; Marsh, Charles R.; and Fair, Richard B.,3,472,997.
Fairbank, Raymond Harry: *See—*
Burrough, Donald E.; Fairbank, Raymond Harry; and Soteropulos, Gust,3,469,381.
Leinhauser, Joe Paul; Fairbank, Raymond Harry; Burrough, Donald E.; and Barnes, Theodore Marion,3,459,273.
Soteropulos, Gust; Burrough, Donald E.; and Fairbank, Raymond Harry,3,485,020.
Fairbank, Raymond Harry; Leinhauser, Joe Paul; and Burrough, Donald E., to Deere & Company. Self-propelled windrower. 3,474,607, 10-28-69, Cl. 56-209.
Fairbank, William M.: *See—*
Bol, Morris; Deaver, Bascom S., Jr.; and Fairbank, William M.,3,454,875.
Fairbanks, Bert J.: *See—*
Burnsweig, Joseph, Jr.; Fairbanks, Bert J.; and Rolstead, Albert A.,3,421,121.
Fairbanks, Daniel F.; Larson, Warren L.; Randall, Robert N.; and Wong, James, to National Research Corporation. Niobium-titanium superconductor. 3,476,615, 11-4-69, Cl. 148-11.5
Fairbanks, Henry N.; and Robbins, Daniel H., to Itek Corporation. Photocopy apparatus. 3,472,590, 10-14-69, Cl. 355-28.
Fairbanks Morse Inc.: *See—*
Fuller, Thaddeus W., 3,438,329.
Henderson, Robert M.; and Zechlin, Richard, 3,448,294.
Henderson, Robert M.; and Zechlin, Richard, 3,487,365.
Miller, Lowell E.; and Henderson, Robert M., 3,485,339.
Pan, Pei-Tai, 3,432,420.

Stecher, Frank L., 3,484,633.
Thorsson, Matthew T.; and Lauler, Louis J., 3,432,744.
Unger, Peter I.; and Bright, Edward D., 3,436,968.
Zechlin, Richard, 3,435,326.

Fairchild Camera and Instrument Corporation: *See*—
Arnold, George J., 3,483,808.
Burns, Joseph, 3,480,782.
Chua, Hua Thye, 3,427,474.
Chua, Hua-Thye, 3,437,844.
Deal, Bruce E., 3,426,422.
Duffek, Edward F., Jr.; and Blech, Ilan A., 3,480,412.
Duncan, David M., 3,437,945.
Finlayson, Malcolm J., 3,436,615.
Fisnar, Igor; and Lester, Russell H., Jr., 3,456,516.
Grove, Andrew S.; Leistiko, Otto; and Whittier, Ronald J., 3,463,977.
Hancock, John R.; and Sigler, Harold, 3,479,452.
Hilbiber, David F., 3,427,513.
Kabell, Louis J., 3,439,214.
Kelley, James W.; and Plough, Charles T., 3,463,974.
Kubinec, James J., 3,427,598.
Lauritzen, Peter O., 3,463,972.
Lehrer, William I., 3,475,210.
Lehrer, William I., 3,476,593.
Levine, Samuel W.; and Copeland, John S., 3,420,151.
McCall, John M., 3,434,402.
McCutcheon, Samuel R., 3,427,558.
Michalchik, Michael, 3,464,820.
Michalchik, Michael; and Goldstein, Amnon, 3,482,513.
Murphy, Howard E., 3,463,928.
Pilling, David J.; and Dumesnil, Maurice E., 3,432,405.
Purnaiya, Gopal M.; Archer, John A.; and Gibbons, James F., 3,483,477.
Snow, Edward H., 3,428,875.
Tortorici, John Joseph; Terleckyj, Jaroslav; and Markkanen, Carl Olavi, 3,485,150.
Ullman, Peter J.; and Littrell, Odie L., 3,421,203.
Waits, Robert K., 3,458,847.
Weckler, Gene P., 3,427,461.
Weckler, Gene P., 3,465,293.
Whittier, Ronald J., 3,432,731.
Zerkin, Milton, 3,421,119.
Zilko, Jacob P.; and Sherry, Leonard I., 3,422,739.

Fairchild Hiller Corporation: *See*—
Berg, Robert E., 3,478,686.
Berry, Thomas G., 3,435,570.
Berry, Thomas G.; and Kline, Thomas F., 3,467,328.
Burns, John W., 3,445,079.
Craig, Dwin, 3,435,743.
Graber, David A., 3,456,441.
Howell, Russell B., 3,479,890.
Lockwood, Raymond M.; Bennett, Edward L.; and Graber, David A., 3,462,955.
Miller, Matthew N., 3,435,725.
Nociti, John M.; and Riely, Phyllis E., 3,471,871.
Smith, James, 3,448,467.

Fairchild, James L.: *See*—
Schumacher, Joseph C.; Rado, Theodore A.; and Fairchild, James L.,3,450,497.

Fairchild, Louis F.: *See*—
Pollitz, Harold C.; Schrimper, Vernon L.; and Fairchild, Louis F.,3,453,939.

Fairchild Recording Equipment Corporation: *See*—
Alexandrovich, George; and Plunkett, Donald J., 3,436,674.

Fairchild, Sherman Mills; and Jones, Clifton M., to Fruit Harvester Corporation. Carrier apparatus for fruit pickers. 3,452,528, 7-1-69, Cl. 56-328.

Fairchild, William P., to Kelco Company. Gelled tobacco sheets and method of making same. 3,480,018, 11-25-69, Cl. 131-17.

Fairfield Engineering and Manufacturing Company: *See*—
Blough, Ronald S., 3,452,873.
Blough, Ronald S.; and Gehlbach, Albert E., 3,469,816.

Fairfield Engineering Company, The: *See*—
Reichenstein, Wilfred R., 3,424,009.

Fairfield Industries, Inc.: *See*—
Clover, Norvin Q., 3,463,265.

Fairfield, Louis R., Jr.: *See*—
Mc Lauchlan, Thomas A.; and Fairfield, Louis R., Jr.,3,479,097.

Fairfield Technology Corporation: *See*—
Lehrer, Stanley, 3,481,679.

Fairfull, Andrew Ewan Spowart; and Welch, Michael Owen, to Bonded Fibre Fabric Limited. Polyamide plasticized with urea for use in fusible compositions. 3,449,287, 6-10-69, Cl. 260-30.8

Fairley, David O., to Automatic Electric Laboratories, Inc., mesne. Step-recovery multiplier modulator. 3,480,882, 11-25-69, Cl. 332-16.

Fairley, Richard K.; and McCarty, Lourdes V., to Controls Company of America. Flow interrupter gas control with safety interlock preventing reset while electromagnet is energized. 3,451,407, 6-24-69, Cl. 137-66.

Fairley, Richard K.; and McCarty, Lourdes V., to Controls Company of America. Flow interrupter type gas safety control operated by rotary knob for pilot, on and off in any rotary position of knob. 3,477,641, 11-11-69, Cl. 236-1.

Fairley, Richard K.; and Mueller, Reinhold, to Controls Company of America. Spark ignition circuit. 3,463,963, 8-26-69, Cl. 315-206.

Fairmont Chemical Co., Inc.: *See*—
Binzer, Ignaz, 3,424,585.

Fairweather, John: *See*—
Erickson, John M.; and Fairweather, John,3,421,085.

Faisandier, Jacques. Pressure reducer for high rates. 3,456,681, 7-22-69, Cl. 137-489.

Faiss, Rudolf O., to Goodyear Aerospace Corporation. Coherent simultaneous cross-correlating signal separator. 3,486,016, 12-23-69, Cl. 235-181.

Faith, Herman E., to Dow Chemical Company, The. (β-Hydroxy-γ-phenoxyalkyl)quanidine compounds. 3,437,691, 4-8-69, Cl. 260-564.

Fajans, Jack; and Nankivell, John E. Device for measuring paper stock consistency. 3,473,401, 10-21-69, Cl. 73-438.

Fajt, Ludvik: *See*—
Doudlebsky, Ctibor; Fajt, Ludvik; Bucil, Frantisek; and Kabele, Stanislav,3,434,184.

Fakan, John C., to United States of America, National Aeronautics and Space Administration. Superconducting alternator. 3,443,128, 5-6-69, Cl. 310-10.

Fake, Harry B., to United Shoe Machinery Corporation. Ornamental moccasin type seams. 3,468,275, 9-23-69, Cl. 112-424.

Falb, Richard D.; and Cooper, Charles W., to United States of America, Health, Education and Welfare. Method of bonding tissue surfaces and controlling hemorrhaging thereof using a tissue adhesive and hemostatic composition. 3,438,374, 4-15-69, Cl. 128-334.

Falbe, Jurgen F.: *See*—
Adams, Charles R.; Falbe, Jurgen F.; and Korte, Friedrich W.A.G.K.,3,433,792.

Falbe, Jurgen F.; and Huppes, Nicolaas, to Shell Oil Company. Production of alkyl hydroxy-pivalates. 3,446,839, 5-27-69, Cl. 260-484.

Falbel, Gerald: *See*—
Jankowitz, Gerald; and Falbel, Gerald,3,476,938.
Villers, Philippe; and Falbel, Gerald,3,424,624.

Falberg, Edward E., to Joanna Western Mills Company. Bookbinding tape. 3,437,506, 4-8-69, Cl. 117-44.

Falcettoni, John B., to Air Reduction Company, Incorporated. Method of stabilizing friction coefficient of carbonaceous base materials and the products thereof. 3,421,913, 1-14-69, Cl. 106-36.

Falchero, Emilio. High speed belt or chain printer with coordinated paper feed means. 3,457,855, 7-29-69, Cl. 101-93.

Falck, Melvin S., Jr., to Morse Products Manufacturing. Alarm system. 3,484,771, 12-16-69, Cl. 340-217.

Falckenberg, Otto F.; and Urban, Dieter H. Bowling ball cleaner. 3,460,179, 8-12-69, Cl. 15-97.

Falco, Elvira A.: *See*—
Hitchings, George H.; and Falco, Elvira A.,3,474,098.

Falco, Vito A. Food processing machine. 3,461,820, 8-19-69, Cl. 107-15.

Falconbridge, John L.; and Miller, Charles R. Vehicle sign. 3,455,044, 7-15-69, Cl. 40-129.

Falconbridge Nickel Mines Limited: *See*—
Thornhill, Philip G.; and Coulter, Edward H., 3,450,495.
Van Weert, Gezinus; and Valen, Jon-Olaf, 3,466,021.

Falcone, Anthony, Jr.: *See*—
Falcone, Joseph R.; and Falcone, Anthony, Jr.,3,478,722.

Falcone, Joseph R.; and Falcone, Anthony, Jr. Purple martin bird house. 3,478,722, 11-18-69, Cl. 119-23.

Falcone, Luigi: *See*—
Brunner, Augusto J.; Costa, Fulvio; and Falcone, Luigi,3,481,821.

Falconer, Errol Linton, to Canadian Industries Limited. Melt explosive composition having a matrix of an inorganic oxygen supplying salt. 3,421,954, 1-14-69, Cl. 149-17.

Falconer, Thomas H.: *See*—
Benson, William H.; and Falconer, Thomas H.,3,448,857.

Faler, Kenneth T., to United States of America, Atomic Energy Commission. Castable neutron shield. 3,471,414, 10-7-69, Cl. 252-478.

Faletti, Franco: *See*—
Caporali, Giorgio; Ferlazzo, Natale; Giordano, Nicola; and Faletti, Franco,3,452,077.

Falge, John H., to General Motors Corporation. Breakerless ignition control distributor. 3,447,004, 5-27-69, Cl. 310-70.

Falk Corporation, The: *See*—
Phinney, John M., 3,435,694.
Polzin, Clayton H. W., 3,486,207.
Wellauer, Edward J.; Hein, Quentin W.; Bade, Alfred G.; and Pokrandt, Glenn C., 3,457,731.

Falk, Edward J., to Wagner Electric Corporation. Control valve. 3,464,741, 9-2-69, Cl. 303-6.

Falk, Martin C., to Pennsylvania Engineering Corporation. Scrap charging machine. 3,421,640, 1-14-69, Cl. 214-18.
Falk, Martin C., to Pennsylvania Engineering Corporation. Gantry car apparatus for casting molten metal. 3,435,882, 4-1-69, Cl. 164-323.
Falk, Martin C., to Pennsylvania Engineering Corporation. BOF vessel without bottom brackets. 3,454,269, 7-8-69, Cl. 266-36.
Falk, Mervin L.: *See*—
Furst, Marcel; and Falk, Mervin L.,3,441,998.
Falk, Richard A. Device for taking a molten sample. 3,481,201, 12-2-69, Cl. 73-425.4
Falk, Ronald E., to Chandler Evans Inc. Multiple digital signal transducer. 3,421,318, 1-14-69, Cl. 60-39.28
Falk, Sven Uno; Jonsson, Erik; and Soredal, Sven Gunnar, to Svenska Ackumulator Aktiebolaget Jungner. Apparatus for continuous manufacture of electrodes for sintered plate accumulator cells. 3,443,996, 5-13-69, Cl. 136-82.
Falkenau, Vernon A., to Uniroyal, Inc. Storage container for pressurized fluids. 3,446,393, 5-27-69, Cl. 220-64.
Falkenberg, Gustave F., to Dimensional Products, Inc. Dispenser for bottled liquids. 3,430,817, 3-4-69, Cl. 222-173.
Falkenberg, Harry, to Stubbe, Friedrich. Closing nozzle for injection molding machines. 3,482,285, 12-9-69, Cl. 18-30.
Falkenblad, Nils Tore; and Sjoholm, Claes Bertil, to Alfa-Laval AB. Plug-type valve. 3,433,454, 3-18-69, Cl. 251-331.
Falkenburg, Fritz, to Gossen, P., & Co. G.m.b.H. Battery testing circuit for a self-balancing bridge. 3,459,113, 8-5-69, Cl. 95-64.
Falkenstein, Gary L.: *See*—
Burge, Harland L., Jr.; Falkenstein, Gary L.; and Roberts, Robert W.,3,421,316.
Falkoff, Adin D.; and Senzig, Donald N., to International Business Machines Corporation. Parallel operations in a vector arithmetic computing system. 3,440,611, 4-22-69, Cl. 340-172.5
Fall, Herbert S.: *See*—
Fall, Herbert S.; Harrell, James M.; Pulley, James A.; Vaughn, Lawrence M.; York, William D.; and Young, Wayne H., 3,450,446.
Fall, Herbert S.; Harrell, James M.; York, William D.; Young, Wayne H.; and Vaughn, Lawrence M., 3,485,539.
Fall, Herbert S. Heavy-duty chassis track. 3,464,744, 9-2-69, Cl. 308-3.8
Fall, Herbert S.; Harrell, James M.; Pulley, James A.; Vaughn, Lawrence M.; York, William D.; and Young, Wayne H., to Fall, Herbert S. Heavy duty chassis track. 3,450,446, 6-17-69, Cl. 308-3.8
Fall, Herbert S.; Harrell, James M.; York, William D.; Young, Wayne H.; and Vaughn, Lawrence M., to Fall, Herbert S., mesne. Roller bearing multiple section drawer track. 3,485,539, 12-23-69, Cl. 308-3.8
Fall, John F., to Aljen Corporation. Apparatus for developing branch pipe connections. 3,442,500, 5-6-69, Cl. 266-23.
Fallard, Rene Louis: *See*—
Delarue, Jean-Louis Auguste; and Fallard, Rene Louis,3,461,211.
Fallert Winkler & Co. Ltd.: *See*—
Heimlicher, Paul; and Burki, Rene, 3,470,817.
Fallgatter, Wayne S., to Cities Service Oil Company. Secondary oil recovery process. 3,421,582, 1-14-69, Cl. 166-9.
Fallgatter, Wayne S., to Cities Service Oil Company. Secondary recovery of petroleum by waterflooding. 3,452,817, 7-1-69, Cl. 166-305.
Fallick, Gary J.: *See*—
Bixler, Harris J.; and Fallick, Gary J.,3,471,439.
Fallin, Walter Y., to Instafreeze Corporation. Conveyor-type freezer using carbon dioxide snow. 3,435,632, 4-1-69, Cl. 62-322.
Fallon, Bernard R.: *See*—
Bottone, Arthur A.; and Fallon, Bernard R.,3,469,140.
Fallon, Bernard R., to Westinghouse Electric Corporation. Quartz lamp base and socket. 3,480,816, 11-25-69, Cl. 313-51.
Fallon, Frances G.: *See*—
Roberts, Edward M.; Claxton, George P.; and Fallon, Frances G.,3,481,929.
Falls Engineering & Machine Company, The: *See*—
Kuts, Richard M.; and Rehman, John L., 3,465,863.
Falterman, Charles W.; and Griffith, William J., to United States of America, Navy. Underwater demolition package. 3,477,373, 11-11-69, Cl. 102-24.
Falterman, Charles W.; and Stanton, Horace D., to United States of America, Navy. Shock-gel process for preparing plastic-bonded explosives. 3,440,115, 4-22-69, Cl. 149-4.
Faltin, Hans G.; and Faltin, William G. Foldable mailing piece. 3,476,307, 11-4-69, Cl. 229-69.
Faltin, William G.: *See*—
Faltin, Hans G.; and Faltin, William G.,3,476,307.
Faltings, Volkert; and Ewers, Josef, to Scholven-Chemie Aktiengesellschaft. Process for the recovery of araliphatic dicarbinols. 3,420,893, 1-7-69, Cl. 260-618.
Falvey, John Joseph, to American Cyanamid Company. Dialkyl dithiocarbamates as collectors in froth flotation. 3,464,551, 9-2-69, Cl. 209-166.
Famatex GmbH, Fabrik fur Textilausrustungsmaschinen: *See*—
Mohring, Gustav; Weber, Arno; Glasz, Eugen G.; and Hagele, Gerhard, 3,482,750.
Fan, George J., to International Business Machines Corporation. Sensor magnetic head with magnetic material as a gap bridge. 3,432,837, 3-11-69, Cl. 340-174.1
Fan, John C. Game apparatus comprising a game piece value comparator. 3,481,604, 12-2-69, Cl. 273-131.
Fan, John Changnien: *See*—
O'Keefe, Michael Francis; and Fan, John Changnien,3,445,794.
Fancher, Leland J., to Red Devil Inc. Glasscutter with plastic wheel retaining insert. 3,462,835, 8-26-69, Cl. 30-164.95
Fancher, Llewellyn W.: *See*—
Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B.,3,458,570.
Szabo, Karoly; Fancher, Llewellyn W.; and Broadbent, David J.,3,446,896.
Fancher, Llewellyn W., to Stauffer Chemical Company. Halo-substituted phenoxyethyl carbamates and derivatives thereof. 3,439,021, 4-15-69, Cl. 260-482.
Fancher, Llewellyn W.; and Broadbent, David J., to Stauffer Chemical Company. N[carbamyl(thiocarbomyl,methyl]phosphorodithio(thio, or phosphonodithio(thio,acetamides. 3,420,918, 1-7-69, Cl. 260-938.
Fancher, Otis Earl; and Hayao, Shin, to Miles Laboratories, Inc. 4-Hydroxy-4-phenylpiperidines. 3,455,935, 7-15-69, Cl. 260-294.
Fanelli, Joseph George, to Coleman Cable & Wire Co. Electric terminal adapter. 3,484,735, 12-16-69, Cl. 339-14.
Fang, Frank F.; and Howard, Webster E., Jr., to International Business Machines Corporation. Solid state rectifying circuit arrangements. 3,458,798, 7-29-69, Cl. 321-43.
Fangman, Charles N.: *See*—
Moore, James D.; and Fangman, Charles N.,3,463,056.
Fangman, Charles N., to Caterpillar Tractor Company. Engine block with case hardening of cylinder walls. 3,476,020, 11-4-69, Cl. 92-169.
Fangman, Charles N., to Caterpillar Tractor Company. Piston pin. 3,479,929, 11-25-69, Cl. 92-187.
Staebler, Paul J.; Crawford, James L.; Fangman, Charles N.; and McCutchen, Robert R.,3,447,012.
Faninger, Bruno. Variable stroke mechanism. 3,478,543, 11-18-69, Cl. 66-86.
Fann, James D., to Champion Laboratories, Inc. Viscometer. 3,435,666, 4-1-69, Cl. 73-60.
Fannell, Inc.: *See*—
Stevens, Richard L., 3,420,462.
Fanner Manufacturing Company, The: *See*—
Butz, Tom E., 3,455,099.
Waite, Harry T., Jr., 3,433,103.
Fannin, Loyd W.: *See*—
Abell, Joseph B., Jr.; Fannin, Loyd W.; and Roth, James F.,3,435,090.
Fannin, Loyd W.; and Makin, Earle C., Jr., to Monsanto Company. Purification of alkyl aromatic hydrocarbons. 3,424,807, 1-28-69, Cl. 260-669.
Fanning, Fred H., Jr.; and Ruh, Edwin, to Dresser Industries, Inc. Kiln with conveyor mechanism. 3,438,616, 4-15-69, Cl. 263-6.
Fanning, William J., to Western Electric Company, Incorporated. Capacitor winding apparatus. 3,432,901, 3-18-69, Cl. 29-25.42
Fanning, William J., to Western Electric Company, Incorporated. Metallized capacitor with moisture barrier. 3,435,308, 3-25-69, Cl. 317-260.
Fano, Robert M., to Massachusetts Institute of Technology. Error correcting sequential docoder. 3,457,562, 7-22-69, Cl. 340-347.
Fanshawe, Ralph Santorre, to Imperial Chemical Industries Limited. Amalgam reduction process for the production of adiponitrile. 3,462,478, 8-19-69, Cl. 260-465.8
Fanslow, Ronald J.: *See*—
Deli, Jack M.; Jacobsen, Walter C.; Fanslow, Ronald J.; and Mosquera, Hugo O.,3,452,835.
Fansteel Inc.: *See*—
Arendt, Stanley M., 3,427,904.
Fry, Stanley S., 3,461,355.
Holzl, Robert A.; and Koenig, William D., 3,472,443.
Hummer, Julius, 3,480,410.
Pierret, James A., 3,473,915.
Rick, Christian E., 3,473,914.
Wehrmann, Ralph F.; and Lorenz, Roy H., 3,442,172.
Fansteel Metallurgical Corporation: *See*—
Lambert, John B.; and Looby, John T., 3,425,822.
Lambert, John B., 3,459,546.
Lambert, John B.; and Marsh, Harold G., 3,479,180.
Marsh, Harold G., 3,446,679.
Fant, Bert T.: *See*—
Ayers, Orval E.; Huskins, Chester W.; and Fant, Bert T.,3,442,081.
Fant, Warwick; and Bunger, Dennen J., to Bendix Corporation, The. Starter engaging mechanism. 3,458,019, 7-29-69, Cl. 192-42.

Fanti, Roy: *See—*
Basche, Malcolm; Fanti, Roy; and Galasso, Salvatore F.,3,443,301.
Fantini, Francesco. Three-phase differential electrothermal relay. 3,451,024, 6-17-69, Cl. 337-46.
Fantl, Joel; Hahn, Frank J.; Hardy, Edgar E.; and Heaps, John F., to Monsanto Company. Polymerization of unsaturated compounds using amino salts of adducts of hydrolyl copolymer esters as emulsifying agents. 3,434,989, 3-25-69, Cl. 260-23.7
Fantozzi, Dominick M.; De Witt, Stewart H.; and Rahaim, Thomas J., to Westinghouse Electric Corporation. Combustion apparatus. 3,422,620, 1-21-69, Cl. 60-39.65
Fantuzzo, Joseph: *See—*
Adamek, John A.; Fantuzzo, Joseph; and Punnett, Frazer D.,3,449,548.
Fantuzzo, Joseph, to Xerox Corporation. Xerographic development apparatus. 3,453,045, 7-1-69, Cl. 355-3.
Far Gard Company: *See—*
Dailey, Robert W., 3,434,480.
Far-Best Corporation: *See—*
Valentine, Edward S., 3,455,860.
Faraci, Giorgio: *See—*
Cerutti, Giacomo; and Faraci, Giorgio,3,425,108.
Cerutti, Giacomo; and Faraci, Giorgio,3,484,914.
Cerutti, Giacomo; Faraci, Giorgio; and Tovaglieri, Fabio,3,438,194.
Farah, Basil S. 2-Substituted estrogenic steroids. 3,470,218, 9-30-69, Cl. 260-397.5
Farah, Basil S.; and Gilbert, Everett E., to Allied Chemical Corporation. Bromodichloroacetanilides as fungicides and nemotocides. 3,450,822, 6-17-69, Cl. 424-324.
Farah, Basil S.; Gilbert, Everett E.; and Veldhuis, Benjamin, to Allied Chemical Corporation. Fluoroperhaloisopropyl benzene carboxylic acids. 3,462,482, 8-19-69, Cl. 260-515.
Farah Manufacturing Company, Inc.: *See—*
Schwartz, Samuel M., 3,459,186.
Farb, Norman E.; and Harris, Norman D. Automatic landing gear for a model aircraft. 3,422,567, 1-21-69, Cl. 46-77.
Farbenfabriken Bayer Aktiengesellschaft: *See—*
Aichinger, Gerd; Schutz, Siegismund; and Hoffmeister, Friedrich, 3,431,257.
Bach, Hans, 3,441,988.
Bahr, Ulrich; Suling, Carlhans; Nischk, Gunther; and Szita, Jeno, 3,483,208.
Bayer, Otto; Schrotter, Rudolf; Siefken, Werner; and Wagner, Kuno, 3,437,609.
Blomeyer, Friedrich; and Oertel, Gunter, 3,479,325.
Bodesheim, Ferdinand; Nawrath, Gunther; and Nischk, Gunther, 3,454,535.
Bodesheim, Ferdinand; Giessler, Wolfgang; and Nischk, Gunther, 3,474,135.
Bormann, Heinrich; and Nordt, Herbert, 3,445,525.
Bossert, Friedrich; and Vater, Wulf, 3,429,896.
Bossert, Friedrich; and Vater, Wulf, 3,470,297.
Bossert, Friedrich; and Vater, Wulf, 3,485,847.
Bottenbruch, Ludwig; Lotter, Hans-Georg; and Schnell, Hermann, 3,437,638.
Bottenbruch, Ludwig; Wulff, Claus; and Schnell, Hermann, 3,445,428.
Bottenbruch, Ludwig; and Schnell, Hermann, 3,468,846.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther, 3,485,570.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther, 3,485,571.
Bruckmann, Paul; Logemann, Heino; and Suling, Carlhans, 3,446,875.
Bruckmann, Paul-Gunther; Logemann, Heino; and Suling, Carlhans, 3,468,977.
Carl, Wolfgang; Wendel, Martin; and Reichle, Alfred, 3,424,609.
Corte, Herbert; Netz, Otto; and Heller, Harold, 3,425,990.
Corte, Herbert; and Heller, Harold, 3,427,262.
Curtius, Ulrich; and Schnell, Hermann, 3,442,854.
Dahm, Manfred; and Simmler, Walter, 3,420,782.
Degener, Eberhart; and Holtschmidt, Hans, 3,441,592.
Dhein, Rolf; Raichle, Karl; and Schnell, Hermann, 3,434,987.
Dhein, Rolf; and Raichle, Karl, 3,474,060.
Dieterich, Dieter; and Bayer, Otto, 3,479,310.
Dieterich, Dieter; Muller, Erwin; and Bayer, Otto, 3,480,592.
Dinges, Karl; and Mueller, Erwin, 3,467,614.
Dorlars, Alfons; and Neuner, Otto, 3,449,333.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf, 3,453,268.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf, 3,459,744.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf, 3,485,831.
Ebneth, Harold; Baer, Heinrich; and Ott, Karl-Heinz, 3,450,794.
Ehring, Heinz; Peltzer, Bernd; and Kreuder, Hans-Joachim, 3,471,425.
Eitel, Alfred; and Hammann, Ingeborg, 3,455,912.
Ellegast, Konrad; and Reinecke, Gerd, 3,422,036.
Eue, Ludwig; Hack, Helmuth; Westphal, Kurt; and Wegler, Richard, 3,472,646.
Fest, Christa; and Hermann, Gunther, 3,442,932.
Fest, Christa; and Hammann, Ingeborg, 3,476,490.
Fest, Christa; Hammann, Ingeborg; Stendel, Wilhelm; and Flucke, Winfried, 3,478,037.
Fischer, Peter; and Kallert, Wilhelm, 3,475,378.
Freytag, Helmut; Reichold, Ernst; Bayer, Otto; Bockmann, Walter; and Wagner, Jochim, 3,425,985.
Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, Hans-Joachim; Bornefeld, Horst; and Deissmann, Walter, 3,451,835.
Gassler, Gerhard; and Pohler, Friedmar, 3,454,754.
Gehrke, Gunter, 3,444,215.
Germerdonk, Rolf, 3,474,850.
Goeldner, Herbert; and Grewe, Ferdinand, 3,472,936.
Golitz, Dietrich; Noll, Walter; Damm, Klaus; and Krauss, Walter, 3,449,465.
Grigat, Ernst; and Putter, Rolf, 3,428,636.
Grigat, Ernst; Schminke, Hans-Dieter; and Putter, Rolf, 3,448,079.
Grogler, Gerhard; and Windemuth, Erwin, 3,450,676.
Gunther, Peter; and Herlinger, Heinz, 3,450,647.
Haas, Friedrich; Vohwinkel, Kurt; Nutzel, Karl; and Sutter, Hubert, 3,457,218.
Hardt, Dietrich; and Bartl, Herbert, 3,454,674.
Harms, Wolfgang; von Oertzen Klaus; Bein, Hans-Samuel; and Siegel, Edgar, 3,468,879.
Hausweiler, Arnold; and Scherhag, Bernhard, 3,433,822.
Hechelhammer, Wilhelm; and Streib, Hugo, 3,437,632.
Hederich, Volker; and Gehrke, Gunter, 3,467,681.
Hees, Walter, 3,460,171.
Heiss, Rudolf; Bocker, Ernst; and Behrenz, Wolfgang, 3,433,826.
Heiss, Rudolf; Hahn, Willi; Behrenz, Wolfgang; and Unterstenhofer, Gunter, 3,437,684.
Heiss, Rudolf; Grigat, Ernst; Bocker, Ernst; and Hermann, Gunther, 3,458,639.
Heiss, Rudolf; Bocker, Ernst; Behrenz, Wolfgang; and Unterstenhofer, Gunter, 3,470,299.
Hendricks, Udo Winfried; Tamer, Ergun; Quaedvlieg, Mathieu; Klapper, Hans; Boehmke, Gunther; and Schneider, Otto, 3,451,762.
Hennig, Hans Joachim; Windemuth, Erwin; and Zankl, Erich, 3,437,500.
Hermann, Karl-Heinz; Schnell, Hermann; Schneider, Rudolf; and Spott, Georg, 3,447,583.
Hermann, Karl Heinz; and Rudolph, Hans, 3,477,986.
Hess, Kurt; Meckbach, Heinrich; Brandt, Karl; and Wolz, Hermann, 3,467,536.
Heydkamp, Wolfgang; Wilms, Hugo; Kallert, Wilhelm; and Dieterich, Dieter, 3,471,448.
Heydkamp, Wolfgang; Bayer, Otto; and Muller, Erwin, 3,471,449.
Heydkamp, Wolfgang; Muller, Erwin; and Wilms, Hugo, 3,474,126.
Hoffmann, Albrecht; and Wolfrum, Gerhard, 3,462,408.
Hofmeier, Hermann, 3,429,983.
Holtschmidt, Hans; Nischk, Gunther; and Degener, Eberhart, 3,467,695.
Honig, Hans-Ludwig; Kolb, Gunter; and Wunder, Walter, 3,425,863.
Honig, Hans Ludwig; Muller, Erwin Alfons; Kuhnel, Werner; Kolb, Gunter; and Elzer, Paul, 3,445,438.
Horstmann, Walter; and Siegel, Edgar, 3,467,643.
Huff, Karl; and Hofmeier, Hermann, 3,445,561.
Ippen, Jakob; and Muller, Erwin Alfons, 3,429,769.
Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus, 3,480,611.
Kabbe, Hans-Joachim; and Puls, Walter, 3,475,450.
Kallert, Wilhelm; and Muller, Erwin, 3,475,200.
Keberle, Wolfgang; and Dieterich, Dieter, 3,438,940.
Keberle, Wolfgang; and Dieterich, Dieter, 3,442,843.
Keberle, Wolfgang; Dieterich, Dieter; and Bayer, Otto, 3,461,103.
Kirkschnek, Helmut; Von Finck, Georg; and Quaedvlieg, Mathieu, 3,420,703.
Kirschnek, Helmut; Lehmann, Wolfgang; and Quaedvlieg, Mathieu, 3,441,435.
Kirschnek, Helmut; and Quaedvlieg, Mathieu, 3,451,844.
Kirschnek, Helmut; von Finck, Georg; and Quaedvlieg, Mathieu, 3,467,487.
Klebert, Wolfgang, 3,428,610.
Klein, Heinz-Gunter; Lang, Konrad; Schmeling, Edith-Luise; and Weissbach, Helmut, 3,424,660.
Kleine-Weischede, Klaus, 3,480,701.
Kleiner, Helmut, 3,451,991.
Klesper, Herbert; Steinfatt, Fritz; Langheinrich, Klaus; and Lorenz, Walter, 3,471,576.
Klosel, Gerhard, 3,423,782.

Knipp, Ulrich; and Weinbrenner, Erwin, 3,458,373.
Kocher, Ernst-Ulrich; Wagner, Kuno; Von Der Emden, Wolfgang; and Dankert, Gerhard, 3,477,992.
Kocher, Ernst-Ulrich; von der Emden, Wolfgang; Glaser, Heinrich; and Holtschmidt, Hans, 3,483,165.
Kolb, Gunther; and Muller, Erwin, 3,474,129.
Kramer, Bernhard; and Weber, Paul, 3,479,126.
Krimm, Heinrich; and Schnell, Hermann, 3,458,475.
Kronig, Walter; and Grolig, Johann, 3,451,905.
Kronig, Walter; Halcour, Kurt; and Scharfe, Gerhard, 3,459,657.
Kronig, Walter; Mayrhofer, Wilhelm; Scharfe, Gerhard; Schwerdtel, Wulf; and Halcour, Kurt, 3,485,887.
Kubitzek, Harry; Unger, Otto; Nawrath, Gunter; Reichle, Alfred; and Nischk, Gunther, 3,477,899.
Kuhle, Engelbert; and Anders, Bertram, 3,467,693.
Kurtz, Peter; and Disselnkotter, Hans, 3,424,791.
Leister, Karl, 3,452,965.
Leverenz, Klaus; and Gottschlich, Alois, 3,468,871.
Loew, Gunther, 3,471,465.
Logemann, Heino; Roos, Ernst; and Suling, Carlhans, 3,436,364.
Lorenz, Walter, 3,420,829.
Malz, Hugo; and Hermann, Gunther, 3,454,681.
Martinola, Friedrich; Siegers, Gunter; and Wolniewicz, Erwin, 3,458,436.
Mayer, Rudi; and Suling, Carlhans, 3,467,629.
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann, 3,428,577.
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann, 3,428,578.
Merten, Rudolf; and Zecher, Wilfried, 3,448,170.
Merz, Walter, 3,444,231.
Muller, Erwin; and Dinges, Karl, 3,433,835.
Muller, Erwin; and Dieterich, Dieter, 3,459,789.
Muller, Gerhard; and Merten, Rudolf, 3,445,477.
Muller, Gerhard; Eue, Ludwig; and Hack, Helmuth, 3,454,393.
Muller, Gerhard; and Behrenz, Wolfgang, 3,462,445.
Muller, Gerhard, 3,471,450.
Mundil, Rudolf, 3,485,582.
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert, 3,470,178.
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert, 3,486,837.
Nentwig, Joachim; Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebauer, Herbert, 3,437,616.
Niederprum, Hans; Simmler, Walter; and Horn, Elmar-Manfred, 3,446,830.
Niederprum, Hans; and Simmler, Walter, 3,448,137.
Niederprum, Hans; Horn, Elmar-Manfred; and Simmler, Walter, 3,458,553.
Nutzel, Karl; and Holzrichter, Hermann, 3,426,006.
Nutzel, Karl; Noll, Walter; and Walaschewski, Engelbert, 3,485,863.
Oehme, Christian; and Brost, Hans, 3,420,774.
Oertel, Gunter; and Holtschmidt, Hans, 3,461,151.
Oertel, Gunter; Holtschmidt, Hans; Wagner, Kuno; and Zenner, Karl-Friedrich, 3,480,591.
Oertel, Harald; Rinke, Heinrich; and Thoma, Wilhelm, 3,432,456.
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich Karl, 3,454,671.
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich-Karl, 3,461,101.
Oertel, Harald; Rinke, Heinrich; Moosmuller, Fritz; and Rosendahl, Friedrich-Karl, 3,461,102.
Oertel, Harald; Rinke, Heinrich; Thoma, Wilhelm; and Rosendahl, Friedrich-Karl, 3,461,106.
Oertel, Harald; Rinke, Heinrich; Rosendahl, Friedrich Karl; and Kleiner, Helmut, 3,485,778.
Ott, Karl-Heinz; Knapp, Karl-Heinrich; Dinges, Karl; and Roehr, Harry, 3,442,979.
Pampus, Gottfried; Witte, Josef; and Schon, Nikolaus, 3,423,388.
Papayannis, Antonia; Zorn, Bruno; and Spahrkas, Heinrich, 3,423,162.
Paulus, Wilfried; Kuhle, Engelbert; Pauli, Otto; Sasse, Klaus; and Klauke, Erich, 3,478,027.
Petersen, Siegfried; Gold, Heinrich; Grundmann, Ekkehard; and Juhling, Lieselotte, 3,461,130.
Radlmann, Eduard; Wolf, Gerhard Dieter; Wieden, Horst; and Nischk, Gunther, 3,481,885.
Raichle, Karl; Bruhne, Friedrich; Prater, Klaus; Nischk, Gunther; and Andres, Karl-Heinz, 3,467,619.
Raue, Roderich; and Kuhlthau, Hans-Peter, 3,468,619.
Reichle, Alfred; Wandel, Martin; and Borger, Heinrich, 3,421,857.
Reichold,Ernst; and Bockmann, Walter, 3,458,481.
Reischl, Artur; Gobel, Wilhelm; and Schmidt, Karl-Ludwig, 3,444,266.
Rellensmann, Wolfgang; Von Falkai, Bela; Reichle, Alfred; and Schnell, Hermann, 3,454,526.
Resz, Raoul; Bartl, Herbert; Weber, Karl-Arnold; and Boll, Manfred, 3,483,076.
Rinkler, Heinrich; Bentz, Francis; and Nischk, Gunther, 3,484,419.
Rinkler, Heinrich; and Nischk, Gunther, 3,484,479.
Rosendahl, Friedrich Karl; Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich, 3,475,377.
Rover, Martin; Luth, Erwin; Schmitz, Lambert; and Linsert, Friedrich, 3,433,424.
Rudolph, Hans; Heller, Karl-Heinz; and Schnell, Hermann, 3,450,612.
Rudolph, Hans; and Prater, Klaus, 3,484,401.
Sattlegger, Hans; Simmler, Walter; Noll, Walter; and Niederprum, Hans, 3,449,393.
Schade, Franz; Komarek, Ernst; and Trescher, Viktor, 3,429,649.
Schafer, Heinrich; Henkel, Paul; and Weist, Martin, 3,451,766.
Scheinpflug, Hans; Jung, Herbert Ferdinand; and Schrader, Gerhard, 3,459,857.
Schicke, Hans Gerd; and Hamman, Ingeborg, 3,478,029.
Schmid, Helmut; Luck, Wolfhard; Loderhose, Ernst; Zinz, Bruno; and Komarek, Ernst, 3,482,925.
Schnegg, Robert; Pelousek, Herbert; Dippelhofer, Robert; Nordt, Herbert; and Dortmann, Heinz-Adolf, 3,449,297.
Schneider, Paul; and Scherhag, Bernhard, 3,428,666.
Schneider, Rudolf; Bottenbruch, Ludwig; Court, Otto; Damsky, Walter; Spott, Georg; and Lippert, Axel, 3,427,003.
Schnell, Hermann; and Schwarz, Hans Helmut, 3,427,370.
Schnell, Hermann; Bottenbruch, Ludwig; and Michael, Dietrich, 3,450,793.
Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebnauer, Herbert, 3,477,977.
Schnoring, Hildegard; Classe, Willy; Pampus, Gottfried; Schon, Nikolaus; and Witte, Josef, 3,450,184.
Schnurrbusch, Karl; Steinbach, Hans-Horst; and Weiden, Otto, 3,458,333.
Schon, Nikolaus; Witte, Josef; and Pampus, Gottfried, 3,476,735.
Schrader, Gerhard, 3,444,274.
Schrader, Gerhard; and Scheinpflug, Hans, 3,457,332.
Schrader, Gerhard; Behrenz, Wolfgang; and Hammann, Ingeborg, 3,470,229.
Schrader, Gerhard; Eue, Ludwig; and Hack, Helmuth, 3,472,920.
Schundehutte, Karl-Heinz; Trautner, Kersten; Horstmann, Walter; and Jager, Horst, 3,484,450.
Schutz, Siegismund; and Hoffmeister, Friedrich, 3,441,608.
Schwarz, Hans Helmut; Morgenstern, Karl; Schneider, Joachim; and Schnell, Hermann, 3,423,460.
Schwarz, Hans-Helmut; and Morgenstern, Karl, 3,485,866.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans, 3,437,679.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans, 3,442,925.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans, 3,444,228.
Simmler, Walter, 3,475,478.
Simmler, Walter; and Niederprum, Hans, 3,481,962.
Simmler, Walter; and Niederprum, Hans, 3,481,963.
Suling Carlhans; and Logemann, Heino, 3,441,533.
Suling, Carlhans; and Kuntz, Egon, 3,453,223.
Szita, Jeno; Marzolph, Herbert; and Unger, Otto, 3,449,286.
Szita, Jeno; Marzolph, Herbert; and Unger, Otto, 3,453,249.
Szita, Jeno; Rinkler, Heinrich; Marzolph, Herbert; and Nischk, Gunther, 3,470,141.
Szita, Jeno; Bahr, Ulrich; Wieden, Horst; Marzolph, Herbert; and Nischk, Gunther, 3,478,001.
Szitz, Jeno; Nogaj, Alfred; and Marzolph, Herbert, 3,470,060.
Taube, Carl; and Freytag, Karl-Heinz, 3,480,378.
Taube, Carl; and Freytag, Karl-Heinz, 3,485,572.
Troemel, Gerhard; and Heintze, Ernst, 3,486,970.
Ugi, Ivar; Fetzer, Uwe; Unterstenhofer, Gunter; Behrenz, Wolfgang; Frohberger, Paul-Ernst; and Scheinpflug, Hans, 3,422,190.
von Bonin, Wulf, 3,442,842.
Von Bonin, Wulf; and Zenner, Karl-Friedrich, 3,474,061.
Von Der Emden, Wolfgang; and Kocher, Ernst-Ulrich, 3,436,374.
Wagner, Kuno; Bayer, Otto; and Schroter, Rudolf, 3,441,588.
Wagner, Kuno, 3,446,807.
Wagner, Kuno; Scheurlen, Hans; and Kritzler, Helmuth, 3,448,169.
Walaschewski, Engelbert; Steinbach, Hans-Horst; Oetke, Walter; and Erdmenger, Rudolf, 3,423,842.
Weinand, Claus; Von Oertzer, Klaus; and Hohmann, Walter, 3,436,410.
Weinbrenner, Erwin; and Knipp, Ulrich, 3,472,715.
Weiss, Wolfgang, 3,422,452.
Weissel, Oskar; Raue, Roderich; and Psaar, Hubertus, 3,441,563.
Weitzel, Hans; Dinges, Karl; and Rohr, Harry, 3,449,471.

Wieden, Horst; Bahr, Ulrich; and Nischk, Gunther, 3,442,885.
Wieden, Horst; Lenz, Hans; Moosmueller, Fritz; and Koehler, Armin, 3,481,905.
Wieden, Horst; Romatowski, Johannes; Moosmueller, Fritz; and Lenz, Hans, 3,485,800.
Windemuth, Erwin; and Brochhagen, Franzkarl, 3,450,648.
Wirth, Wolf-Dieter; Knupfer, Hans; Schellhammer, Carl-Wolfgang; Schonol, Karl; and Scholermann, Walter, 3,420,835.
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang, 3,422,113.
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang, 3,446,805.
Wolf, Karlheinz; Haus, Arthur; Mager, Theodor; Hornle, Reinhold; and Bechlars, Franz, 3,458,804.
Wolfrum, Gerhard; and Wunderlich, Hermann, 3,467,644.
Wolfrum, Gerhard; and Wunderlich, Hermann, 3,483,181.
Wulff, Claus; Schnell, Hermann; and Bottenbruch, Ludwig, 3,422,065.
Wunderlich, Hermann, 3,421,833.
Wunderlich, Hermann; and Wolfrum, Gerhard, 3,423,392.
Zenner, Karl-Friedrich; Oertel, Gunter; and Holtschmidt, Hans, 3,453,310.
Zirngibl, Hans; and Gutsche, Walter, 3,481,703.
Zirngibl, Hans; Brandle, Karl; Beumer, Peter; and Weidmann, Walter, 3,485,584.
Zirngibl, Hans; Gerken, Rudolf; Heine, Heinz; and Weise, Johannes, 3,486,846.
Zirngibl, Hans; Gutsche, Walter; and Brandle, Karl, 3,486,913.

Farbenfabriken Bayer Aktiengesellschaft vormals Meister Lucius & Bruning: *See*—
Hausweiler, Arnold; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,470,236.

Farber, Arnold S.; and Ruoff, Carl E., to International Business Machines Corporation. Signal storage circuit utilizing charge storage characteristics of field-effect transistor. 3,461,312, 8-12-69, Cl. 307-221.

Farber, Hugh A., to Dow Chemical Company, The. Amide-epoxide compositions. 3,475,353, 10-28-69, Cl. 260-2.

Farber, Hugh A.; and Safranski, John C., Jr., to Dow Chemical Company, The. Thermosetting amide-epoxide compositions. 3,474,078, 10-21-69, Cl. 260-80.72

Farber, Milton: *See*—
Miller, Robert; and Farber, Milton,3,439,999.
Miller, Robert; Farber, Milton; and Loveless, Frederick C.,3,432,250.
Miller, Robert; Farber, Milton; and Shichman, Daniel,3,485,574.

Farbridge, Joseph Edward; Whittley, Donald Charles; and Smith, Edward Howard, to De Havilland Aircraft of Canada, Limited, The. Augmentor wing structure for aircraft. 3,442,470, 5-6-69, Cl. 244-42.

Farbwerke Franz Rasquin G.m.b.H.: *See*—
Scelig, Fritz, 3,434,857.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: *See*—
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Schmidt, Felix Helmut, 3,448,149.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Peschke, Wilhelm, 3,449,346.
Aumuller, Walter; Weber, Helmut; Muth, Karl; Weyer, Rudi; and Schmidt, Felix, 3,454,636.
Bauer, Fritz; Klatt, Peter; and Sellhorn, Kurt, 3,427,377.
Beermann, Claus; Ramloch, Herbert; and Rosinger, Sigurd, 3,481,849.
Blaettner, Kurt; and Nowy, Gunther, 3,459,811.
Bohn, Hans-Joachim; and Seidl, Gunther, 3,470,233.
Braun, Oskar; Gross, Richard; and Nakaten, Herbert, 3,446,569.
Brotz, Walter; Runge, Dietrich; and Albrecht, Manfred Karl Furchtegott, 3,442,837.
Cherdron, Harald; Leugering, Hans Joachim; Fischer, Edgar; and Asmus, Klaus-Dieter, 3,467,625.
Dietz, Erich; Fuchs, Otto; Schinzel, Erich; and Wagner, Dieter, 3,420,843.
Donges, Ernst; Kohlhaas, Rudolf; Hloch, Albert; and Medic, Nikolaj, 3,420,622.
Donges, Ernst; and Janson, Hans Georg, 3,486,994.
Dorfelt, Christoph, 3,433,829.
Dorfelt, Christoph; and Lorz, Werner, 3,442,852.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brunning: *See*—
Dorfelt, Christoph, 3,442,957.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: *See*—
Dursch, Walter; Landauer, Franz; Reuter, Martin; and Weckler, Gerhard, 3,433,574.
Ehmann, Werner, 3,446,768.
Ehrhart, Gustav; Ther, Leopold; Alpermann, Hans-Georg; and Ott, Heinrich, 3,426,028.
Ehrhart, Gustav; Gericke, Dietmar; and Ott, Heinrich, 3,468,952.
Ehrhart, Gustav; Leditschke, Heinrich; Meixner, Willi; and Ruschig, Heinrich, 3,474,140.
Ehrhart, Gustav; Lindner, Ernst; and Ott, Heinrich, 3,475,482.
Fernholz, Hans; and Schmidt, Hans-Joachim, 3,427,123.
Fernholz, Hans; and Schmidt, Hans-Joachim, 3,468,948.
Fischer, Edgar; and Schott, Claus, 3,424,725.
Fischer, Edgar; Schott, Claus; and Asmus, Klaus, 3,453,238.
Fischer, Edgar; and Schott, Claus, 3,453,239.
Fischer, Edgar; and Schott, Claus, 3,457,228.
Fischer, Edgar; and Schott, Claus, 3,457,229.
Fischer, Manfred; Kotzschmar, Arnold; and Schwenk, Ulrich, 3,454,617.
Forster, Paul-Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunther, 3,446,772.
Forster, Paul Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunter, 3,480,586.
Frensch, Heinz, 3,426,132.
Frensch, Heinz; Goebel, Helmut; and Hartel, Kurt, 3,461,209.
Fritsch, Werner; Stache, Ulrich; and Haede, Werner, 3,454,563.
Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt, 3,455,910.
Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Ruschig, Heinrich, 3,468,918.
Fritsch, Werner; and Stache, Ulrich, 3,471,480.
Frohlich, Walter; Oberrauch, Hans; and Fischer, Kurt, 3,444,205.
Fuchs, Otto; and Deubel, Reinhold, 3,454,568.
Groebel, Alfred, 3,478,147.
Gumboldt, Albert Gustav Martin; and Noetzel, Siegfried, 3,477,997.
Hadler, Rudolf; Ullrich, Hansjurgen; and Schreiber, Horst, 3,473,896.
Haede, Werner; Radscheit, Kurt; Fritsch, Werner; Stache, Ulrich; and Ruschig, Heinrich, 3,461,145.
Hafner, Karl-Heinz; Fischer, Edgar; and Mebwarb, Gunther, 3,442,860.
Hafner, Karl-Heinz; and Fischer, Edgar, 3,448,081.
Hafner, Karl-Heinz; and Fischer, Edgar, 3,454,528.
Hafner, Karl-Heinz; and Fischer, Edgar, 3,457,220.
Hahn, Helmut; and Beermann, Claus, 3,427,276.
Hartmann, Adolf; and Schweizer, Peter, 3,459,711.
Hartmann, Werner; Schleede, Dietrich; and Schulde, Felix, 3,431,203.
Hertel, Hasso, 3,425,785.
Hertel, Hasso; and Kirst, Werner, 3,441,364.
Hertel, Hasso, 3,453,066.
Hertel, Hasso; and Kirst, Werner, 3,484,181.
Herwig, Walter, 3,444,254.
Heuck, Claus; and Lederer, Michael, 3,457,240.
Heuse, Otto, 3,429,751.
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese, 3,439,044.
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese, 3,470,230.
Hloch, Albert; Kohlhaas, Rudolf; Medic, Nikolay; and Neises, Helmut, 3,445,257.
Hoffmann, Herman; and Trottier, Claude H., 3,457,317.
Hoffmann, Hermann; and Marsocci, Samuel F., 3,440,288.
Hoffmann, Hermann; and Zeitler, Heidi, 3,478,010.
Holemann, Hans; Janson, Hans Georg; and Moeller, August, 3,460,903.
Homuth, Horst; Feess, Erich; and Schidlo, Wolfram, 3,442,601.
Horner, Leopold; Neumann, Heinz; and Geiger, Rolf, 3,431,186.
Horner, Leopold; and Neumann, Heinz, 3,434,944.
Hornig, Lothar; and Neu, Hermann, 3,448,147.
Hornig, Lothar; Hirsch, Lothar; and Mau, Gunther, 3,454,661.
Hornig, Lothar; and Neu, Hermann, 3,461,158.
Hornig, Lothar; and Mau, Gunter, 3,462,501.
Hornig, Lothar; Grosspietsch, Horst; Mau, Gunter; and Hirsch, Lothar, 3,462,502.
Hornig, Lothar; Mau, Gunther; and Hirsch, Lothar, 3,475,505.
Horoldt, Ernst, 3,445,557.
Hoyer, Ernst; Meininger, Fritz; and Noll, Walter, 3,461,111.
Jacob, Ingolf; and Ueberdiek, Ralf, 3,480,709.
Kampe, Klaus-Dieter; and Fischer, Edgar, 3,454,683.
Kampe, Klaus-Dieter; and Fischer, Edgar, 3,454,684.
Kaupp, Josef; and Strassberger, Werner, 3,424,599.
Kaupp, Josef; Klug, Helmut; Mittelberger, Karl Heinz; and Koln, Hans Georg, 3,467,640.
Kaupp, Josef; and Petz, Karl, 3,481,913.
Keil, Karl, 3,432,573.
Keller, Hans; Risch, Karl; and Althen, Winfried, 3,457,103.
Knobloch, Peter; Kuhn, Adalbert; Pfannenschmidt, Otto; and Schneider, Werner, 3,435,534.
Kolb, Hans; Hartmann, Rudolf; and Buckmiller, Harald, 3,444,287.
Korbanka, Helmut; Tauber, Gunther; and Vollmann, Hansjorg, 3,442,872.
Kramer, Hans Bernhard Adolf; Messwarb, Gunter; and Denk, Walter, 3,420,805.
Kuhlkamp, Alfred; and Werner, Gerhard, 3,474,114.
Kuhlkamp, Alfred; and Reihs, Leonhard, 3,483,171.
Kuhne, Gerhard, 3,453,195.

Kuhne, Rudolf; Meininger, Fritz; and Frolich, Heinrich, 3,440,240.
Kurzke, Herbert; Bauer, Gunther; and Heinrich, Karl, 3,479,689.
Landauer, Franz; Beermann, Claus; and Horoldt, Ernst, 3,470,287.
Langbein, Gerhard; and Meininger, Fritz, 3,420,812.
Langbein, Gerhard; and Meininger, Fritz, 3,450,689.
Lederer, Michael; Lenzmann, Heinrich; and Wagener, Siegfried, 3,429,910.
Leditschke, Heinrich; Ehrhart, Gustav; Ruschig, Heinrich; and Meixner, Willi, 3,462,456.
Lenz, Hans-Joachim; and Benkel, Diethard, 3,474,728.
Lenz, Hans-Joachim; and Ott, Willi, 3,483,048.
List, Karl-Hermann; and Noltner, Gerhard, 3,460,681.
Loewe, Heinz; Urbanietz, Josef; and Lammler, Georg, 3,484,524.
Luck, Erich, 3,486,909.
Mau, Gunther; and Horning, Lothar, 3,426,085.
Mauz, Otto; and Prinz, Eberhard, 3,455,875.
Mauz, Otto, 3,459,705.
Mauz, Otto, 3,466,261.
Meininger, Fritz; and Hoyer, Ernst, 3,426,008.
Meininger, Fritz; and Hille, Ernst, 3,435,023.
Meininger, Fritz; and Springer, Hartmut, 3,445,449.
Meininger, Fritz; Signon, Anni; and Berner, Klaus, 3,445,450.
Meininger, Fritz, 3,457,251.
Meininger, Fritz, 3,457,252.
Meininger, Fritz, 3,462,409.
Meininger, Fritz; and Schlafer, Ludwig, 3,468,873.
Meininger, Fritz; and Bauer, August, 3,471,469.
Mika, Georg, 3,448,061.
Muller, Heinz; and Krempl, Engelbert, 3,459,649.
Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning: *See*—
Muth, Karl; Aumuller, Walter; Weyer, Rudi; and Weber, Helmut, 3,420,882.
Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: *See*—
Nahm, Helmut; Siedel, Walter; and Luding, Edgar, 3,449,325.
Nahm, Helmut; Oppermann, Adolf; Hoffmann, Hinrich; Kornlein, Max; and Oppinger, Heinz, 3,461,116.
Otten, Gerhard; Halder, Rudolf; and Schreiber, Horst, 3,426,083.
Probst, Otto; Hornig, Lothar; and Hirsch, Lothar, 3,441,597.
Probst, Otto; Horning, Lothar; Hirsch, Lothar; and Gosse, Helmut, 3,445,509.
Reindl, Eugen; and Rummert, Gunter, 3,471,593.
Roscher, Gunter; Gunther, Klaus; Probst, Otto; and Scholderer, Jorg, 3,438,870.
Rosinger, Sigurd, 3,457,155.
Rupp, Walter, 3,438,947.
Rupp, Walter; and Beermann, Claus, 3,462,397.
Ruschig, Heinrich; Meixner, Willi; and Alpermann, Hans Georg, 3,445,473.
Ruschig, Heinrich; Konig, Johann; and Duwel, Dieter, 3,449,420.
Schacht, Ulrich, 3,432,597.
Schafer, Helmut Karl; and Kohlhaas, Rudolf, 3,441,539.
Scherer, Otto; Korinth, Jurgen; and Rammelt, Peter-Paul, 3,446,721.
Schinzel, Erich; and Lebkucher, Karl Heinz, 3,420,821.
Schinzel, Erich; Pintschovius, Ulrich; and Lebkucher, Karl Heinz, 3,427,307.
Siedel, Walter; and Wissmann, Hans, 3,457,314.
Springer, Hartmut; and Baier, Edwin, 3,426,016.
Stache, Ulrich; Fritsch, Werner; and Haede, Werner, 3,420,820.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard, 3,462,421.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard, 3,474,091.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; Radscheit, Kurt; and Vogel, Gerhard, 3,483,233.
Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning: *See*—
Vogel, Gerhard; Geiger, Rolf; and Sturm, Karl, 3,483,291.
Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: *See*—
Von Rosenberg, Guido; and Sapper, Wolfgang, 3,437,496.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Felix, 3,426,067.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Muth, Karl, 3,435,116.
Weber, Helmut; Muth, Karl; Weyer, Rudi; Aumuller, Walter; and Schmidt, Felix Helmut, 3,449,417.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Flix Helmut, 3,454,635.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Korger, Gerhard, 3,483,297.
Weissermel, Klaus; Fischer, Edgar; and Schott, Claus, 3,435,006.
Weissermel, Klaus; Hafner, Karl-Heinz; Gutweiler, Klemens; and Fischer, Edgar, 3,442,865.
Wendt, Heinz; and Schmitz, Heinz, 3,461,159.
Winkelmann, Erhardt; and Wagner, Wolf-Helmut, 3,478,036.
Winkelmann, Erhardt; and Wagner, Wolf-Helmut, 3,483,207.
Winkler, Fritz; Pohl, Franz; Stark, Hermann; Kesseler, Helmut; and Grundmann, Werner, 3,424,646.
Wissmann, Hans; Siedel, Walter; and Geiger, Rolf, 3,487,047.
Wolf, Erhard; and Schrinner, Elmar, 3,481,928.
Farensbach, Harry B. Electric circuit employing phase control. 3,476,958, 11-4-69, Cl. 307-305.
Fareri, Elizabeth L.; McGuire, Robert J.; and Strange, Harold O., to Gulf Research & Development Company. Quaternary ammonium salts of esters of salicylic acid as rust inhibitors. 3,433,607, 3-18-69, Cl. 44-63.
Farese, Vito C., to Wallace & Tiernan Inc. Supersonic-energy measuring devices and systems. 3,486,381, 12-30-69, Cl. 73-401.
Farey, Keith Horace: *See*—
Simon, Hermann; Vohralik, Vaclav; Denson, John Michael; and Farey, Keith Horace,3,473,990.
Farfaletti-Casali: *See*—
Montagnani, Mario; and Farfaletti-Casali,3,434,925.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum, to Rhone-Poulenc S.A. Phenthiazine derivatives. 3,424,748, 1-28-69, Cl. 260-243.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum, to Rhone-Poulenc S.A. Phenthiazine derivatives. 3,450,698, 6-17-69, Cl. 260-243.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum, to Rhone-Poulenc S.A. Phenthiazine derivatives. 3,455,917, 7-15-69, Cl. 260-243.
Fargo Mfg, Company, Inc.: *See*—
Becker, Stephen P., 3,444,505.
Farhat, Kelly, to Firestone Tire & Rubber Company, The. N-(p-substituted aminophenyl) cyclic Alkyleneimines and their preparation. 3,480,617, 11-25-69, Cl. 260-239.
Farhi, Victor N.: *See*—
Cook, Loveda; and Farhi, Victor N.,3,468,318.
Faria, Sixdeniel; and Mehalchick, Emil J., to Sylvania Electric Products, Inc. Phosphor coated high pressure electric discharge device. 3,480,819, 11-25- 9, Cl. 313-109.
Farin, William G., to Marathon Engineering, Inc. Method for heat recovery in evaporating and burning spent liquor. 3,425,477, 2-4-69, Cl. 159-48.
Farina, John: *See*—
McDonnell, Thomas M., 3,443,753.
Faris, Sam R.: *See*—
Blatz, Paul E.; and Faris, Sam R.,3,479,390.
Faris, Sam R.; and Custard, Herman C., to Mobil Oil Corporation. Acceleration responsive measuring systems. 3,481,206, 12-2-69, Cl. 73-516.
Farish, James F.: *See*—
Noll, Lawrence E.; and Farish, James F.,3,463,747.
Farkad, Eugene, to Lilly, Eli, and Company. Novel 5β, 10α-steroids. 3,445,488, 5-20-69, Cl. 260-397.4
Farkas, Eugene, to Lilly, Eli, and Company. Novel 19-nor-9-isosteroids. 3,484,464, 12-16-69, Cl. 260-397.4
Farkas, Eugene: *See*—
Lunn, William H. W.; and Farkas, Eugene,3,471,528.
Farkas, Ferenc Karoly; Walbridge, Derek John; and Foot, John Rodney, to Imperial Chemical Industries Limited. Paint composition including a dispersant having a solvatable chain-like component. 3,433,753, 3-18-69, Cl. 260-22.
Farkas, Robert D. Apparatus for forming and applying bands. 3,466,847, 9-16-69, Cl. 53-198.
Farkas, Samuel Z. Extensible furniture. 3,450,072, 6-17-69, Cl. 108-102.
Farley, David L.: *See*—
Hyde, Walter E.; Farley, David L.; and Holden, John C.,3,422,900.
Farley, Elizabeth L.: *See*—
Farley, Nelson E., Jr.,3,449,714.
Farley, George Albert: *See*—
Scroggie, James A.; Davidson, Miron; Hall, Floyd Charles; and Farley, George Albert,3,419,925.
Farley, James N.: *See*—
Boettcher, Stephen A.; and Farley, James N.,3,457,682.
Farley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 1-Substituted urea alkyl 1,2-dihydro-1,4- benzodiazepines and benzodiazepin-2-ones. 3,464,978, 9-2-69, Cl. 260-239.3
Farley, John David, 12 1/2% to Vigier, Francois C. 12 1/2% to Nash, William W., Jr. 9% to Fedotowsky, Andre, and 1% to Lynch, Gerry. Windproof umbrella. 3,456,661, 7-22-69, Cl. 135-20.
Farley, Joseph W.: *See*—
Curry, Byrl E.; Dehne, Clarence A.; and Farley, Joseph W.,3,451,352.
Farley, Nelson E., Jr., deceased0 (by Farley, Elizabeth L.; executrix), to General Motors Corporation. Vehicle seat belt safety system. 3,449,714, 6-10-69, Cl. 340-52.

Farling, Gene M.: *See—*
Kratzsch, Harold L.; and Farling, Gene M.,3,428,045.
Farm Fans, Inc.: *See—*
Pfeiffer, William E., 3,435,247.
Pfeiffer, William E., 3,467,480.
Pfeiffer, William E., 3,470,626.
Farman, Charles E. Golf drive meter and club indicator. 3,441,209, 4-29-69, Cl. 235-95.
Farmer Bros., Co.: *See—*
Farmer, Roy F.; and Chandler, William Lloyd, 3,459,558.
Farmer, Charels G.; Loyd, Calvin D.; Miller, Robert G.; and Oberle, Theodore L., to Caterpillar Tractor Company. Method of speed programmed welding. 3,462,826, 8-26-69, Cl. 29-470.3
Farmer, Charlie F., 50% to Dorrance, Ray E. Electromagnetic well service tool. 3,441,307, 4-29-69, Cl. 294-65.5
Farmer, Edwin Bruce, to Brico Engineering Limited. Ferrous material. 3,432,290, 3-11-69, Cl. 75-123.
Farmer, Francis John Vernon: *See—*
Barber, Anthony Clifford; and Farmer, Francis John Vernon,3,465,429.
Barber, Anthony Clifford; and Farmer, Francis John Vernon,3,465,430.
Farmer, James L.: *See—*
Burton, Jean A.; Geppert, Robert J.; Farmer, James L.; and Mathis, Joseph J.,3,430,831.
Farmer, James W.: *See—*
Eshleman, Ralph G.; and Farmer, James W.,3,428,763.
Farmer, John E., to Farmer Mold and Machine Works, Inc. Apparatus for cleaning and fluxing battery plate lugs. 3,461,839, 8-19-69, Cl. 118-74.
Farmer, John. Juice extraction process. 3,425,869, 2-4-69, Cl. 127-43.
Farmer, John, to Honiron, Inc. Juice extraction apparatus and screw press. 3,432,344, 3-11-69, Cl. 127-3.
Farmer, John, to Honolulu Iron Works Company. Pineapple slice coring and loading machine. 3,434,515, 3-25-69, Cl. 146-6.
Farmer, John, to Honolulu Iron Works Company. Machine for coring pineapple slices. 3,434,516, 3-25-69, Cl. 146-6.
Farmer, John, to Ward Foods, Inc., mesne. Pineapple sizing apparatus. 3,450,178, 6-17-69, Cl. 146-6.
Farmer, Leonard J.; and Ruth, John A., to Hercules Incorporated. Caseless cartridges having the projectile housed in the propellant charge. 3,482,516, 12-9-69, Cl. 102-38.
Farmer, Marion R., to Utility Products Manufacturing Company. Crossarm brace means. 3,468,571, 9-23-69, Cl. 287-103.
Farmer, Melvin L.: *See—*
Kurtz, Abraham N.; Billups, Wilbur E.; and Farmer, Melvin L.,3,487,111.
Farmer Mold and Machine Works, Inc.: *See—*
Farmer, John E., 3,461,839.
Farmer, Oliver F. Propelling means attachment for the foot of a swimmer. 3,480,978, 12-2-69, Cl. 9-305.
Farmer, Robert B., to Schick X-Ray Co., Inc. Feeding and transporting mechanism for X-ray films or other sheets. 3,448,979, 6-10-69, Cl. 271-33.
Farmer, Roy F.; and Chandler, William Lloyd, to Farmer Bros., Co. Coffee pellet process. 3,459,558, 8-5-69, Cl. 99-65.
Farmer, Stanley E.; and Dixon, Thomas E., to Cascade Corporation. Hydraulic motor drive. 3,473,442, 10-21-69, Cl. 91-412.
Farmer, Wayne D.: *See—*
Dick, George W.; and Farmer, Wayne D.,3,438,008.
Farmer, William Kendrick, to Miner, W. H., Inc., mesne. Plug seal for hopper outlet assembly. 3,461,817, 8-19-69, Cl. 105-282.
Farmery, Horstine, to Horstine Farmery Limited. Applicator for granular insecticides, fertilizers and seeds. 3,478,936, 11-18-69, Cl. 222-340.
Farmhand, Inc.: *See—*
Koehnen, Earl A.; and Mobley, Clarnece W., Jr., 3,436,028.
Pierson, Charles F.; Benjamin, John W.; and Holland, Edward T., Jr., 3,452,393.
Saufferer, Warren B., 3,466,100.
Farmochimica Cutolo-Calosi S.p.A.: *See—*
Viterbo, Rene; Mastursi, Michele; and Lembo, Sabino, 3,457,264.
Farms, Nichols: *See—*
Starling, Edward L., 3,480,296.
Farnam, F. D., Co.: *See—*
Farnam, Robert G., 3,438,836.
Farnam, Robert G., to Farnam, F. D., Co. Apparatus for forming laminates. 3,438,836, 4-15-69, Cl. 156-583.
Farnbach, William A.: *See—*
Best, Allan I.; Farnbach, William A.; and Smith, Jeffrey H.,3,423,629.
Farncomb, Robert E.: *See—*
Watters, James W.; Farncomb, Robert E.; and Cziesla, Manfred J.,3,420,621.
Farney, George K., to S-F-D Laboratories, Inc. Dual helix coupled periodic circuits and tubes using same. 3,427,495, 2-11-69, Cl. 315-3.5
Farney, George K., to S-F-D Laboratories, Inc. Mixed line interaction circuits for coaxial magnetrons. 3,427,499, 2-11-69, Cl. 315-39.77
Farney, George K., to S-F-D Laboratories, Inc. Slow wave circuit having an array of half wave resonators coupled via an array of quarter wave resonators. 3,436,594, 4-1-69, Cl. 315-39.77
Farney, George K., to S-F-D laboratories, Inc. Crossed-field reentrant stream tandem slow wave circuit tube. 3,448,330, 6-3-69, Cl. 315-39.3
Farney, George K., to United States of America, Army, mesne. Reentrant beam crossed-field amplifier with electronic feedback inhibiting filter. 3,450,932, 6-17-69, Cl. 315-3.6
Farney, George K., to United States of America, Army, mesne. Control electrode structure for crossed-field amplifier. 3,450,938, 6-17-69, Cl. 315-39.3
Farney, George K., to Varian Associates, mesne. Helix coupled vane circuit with the helix connected centrally of the vanes. 3,484,649, 12-16-69, Cl. 315-39.3
Farney, Leonard C.; Rogers, Howard G.; and Young, Richard W., to Polaroid Corporation. Diffusion transfer image receiving element whose alkali diffusion flow rate varies inversely with the temperature. 3,455,686, 7-15-69, Cl. 96-3.
Farnfield, Ronald Edward: *See—*
Greenwood, Thomas Eric; Woor, Denis Frederick; and Farnfield, Ronald Edward,3,455,349.
Farnham, Robert E.; Smith, Donald W.; and Barber, Harry A., to Barber-Greene Company. Portable batch tower. 3,458,177, 7-29-69, Cl. 259-153.
Farnham, Willard. Liquid treatment method and apparatus. 3,441,956, 4-29-69, Cl. 210-53.
Farnsworth, Helen D. Means for gauging timed dosages from a dispensing container. 3,437,243, 4-8-69, Cl. 222-154.
Farnsworth, Robert P., to Hughes Aircraft Company. Gain control system for photomultiplier systems. 3,435,233, 3-25-69, Cl. 250-207.
Farnsworth, Walter B.: *See—*
Baker, Allen J.; Death, Frank S.; Myers, Richard C.; and Farnsworth, Walter B.,3,422,206.
Farnum, Charles Ernest. Knockdown trailer unit. 3,429,608, 2-25-69, Cl. 296-23.
Farnum, Henry M. Continuous comparator of human responses for tests, preset comparative data, and the like. 3,453,753, 7-8-69, Cl. 35-48.
Farnworth, Wilfred, to Rader Pneumatics & Engineering Co., Ltd. Pneumatic conveying line elbow apparatus. 3,450,442, 6-17-69, Cl. 302-64.
Farnworth, Wilfred, to Rader Pneumatics & Engineering Co., Ltd. Particulate material pumping apparatus. 3,471,203, 10-7-69, Cl. 302-14.
Faro, Anthony E., Jr.: *See—*
Hamilton, Joel A.; Faro, Anthony E., Jr.; and Leitner, Joseph,3,438,175.
Farouche, Philip, to General Electric Company. Hinge structure. 3,432,882, 3-18-69, Cl. 16-171.
Farquhar, James Thomson; and Green, Rosemary, to Associated Chemical Companies Limited. Cathodic treatment of metals in chromate solution to form protective coating thereon. 3,446,717, 5-27-69, Cl. 204-58.
Farquhar, Marilyn G.; Smith, Robert E.; and Barish, Emil Z., to University of California, The Regents of the. Machine for thin slicing a non-frozen specimen. 3,420,130, 1-7-69, Cl. 83-245.
Farquhar, Melville T., to Reynolds Metals Company. Tubular carrier and blank for making same. 3,462,011, 8-19-69, Cl. 206-65.
Farquhar, Melville T., to Reynolds Metals Company. Tamperproof carton and blank for making same. 3,462,066, 8-19-69, Cl. 229-39.
Farr, Andrew F., to Bioconsultants, Inc. Apparatus for analysis of respired gas. 3,420,224, 1-7-69, Cl. 128-2.07
Farr, Andrew F., to Bioconsultants, Inc. Bag means for collecting breathing and rebreathing air samples. 3,426,745, 2-11-69, Cl. 128-2.
Farr, Andrew F. Apparatus for filtering out clear liquid from suspended solids. 3,481,477, 12-2-69, Cl. 210-359.
Farr Company: *See—*
Culbert, Robert M.; and Mugford, Clifton C., 3,436,500.
Farr, Richard S., 3,435,503.
Farr, Emory W., to Electro Development Corporation. Flexure and strain gauge mounting assembly. 3,464,259, 9-2-69, Cl. 73-88.5
Farr, Glyn P. R., to Girling Limited. Brake adjusters. 3,442,357, 5-6-69, Cl. 188-196.
Farr, Glyn P. R., to Girling Limited. Fluid pressure operated boosters or servo motors. 3,463,054, 8-26-69, Cl. 91-369.
Farr, Harold K., to General Instrument Corporation. Fan beam acoustic doppler navigation system. 3,436,721, 4-1-69, Cl. 340-3.
Farr, Richard S., to Farr Company. Method of constructing a device for separating dust from a gaseous fluid. 3,435,503, 4-1-69, Cl. 29-157.
Farr, Stewart M., to Dairy Technics Inc. Milk fermenting product and method of making same. 3,420,742, 1-7-69, Cl. 195-59.

Farr, Thad D.; Walters, Henry K., Jr.; and Fleming, Julius D., to Tennessee Valley Authority. Ammonium polyphosphate produced at atmospheric pressure. 3,484,192, 12-16-69, Cl. 23-106.
Farrall, Richard J.; and Rutledge, Robert D. Method and device for storage of visual information. 3,481,657, 12-2-69, Cl. 312-234.2
Farran, Edward John; and Farran, Frederick John. Device for making shish-kabobs. 3,433,151, 3-18-69, Cl. 99-441.
Farran, Frederick John: *See—*
Farran, Edward John; and Farran, Frederick John,3,433,151.
Farrand, Clair L., to Inductosyn Corporation. Multi-layer windings for position measuring transformers. 3,441,888, 4-29-69, Cl. 336-123.
Farrand Optical Co., Inc.: *See—*
La Russa, Joseph, 3,443,858.
Shenker, Marvin; La Russa, Joseph; and Nershi, George Thomas, 3,432,219.
Tronnier, Albrecht W.; Jeremias, Helmuth M.; and Gottesman, Arthur H., 3,479,117.
Farrand, William A.; Horsfall, Robert B.; Williams, Warner D.; and Marcum, Norman E., to North American Rockwell Corporation. Transducer positioning member having hydrostatic bearing supports. 3,482,232, 12-2-69, Cl. 340-174.1
Farrand, William A.; and Horsfall, Robert Bruce, to North American Rockwell Corporation. Synchronous motor with segmented stator. 3,454,857, 7-8-69, Cl. 318-166.
Farrand, William A.: *See—*
Horsfall, Robert B.; Farrand, William A.; and Marcum, Norman E.,3,462,817.
Horsfalls, Robert B.; and Farrand, William A.,3,465,323.
Farrant, David A., to Scionics Corporation. Self-indexing intermitent drive means. 3,420,129, 1-7-69, Cl. 83-205.
Farrant, George Carlton: *See—*
Dannley, Ralph Lawrence; Aue, Walter Alois; and Farrant, George Carlton,3,458,546.
Farrant, Leonard George: *See—*
Steghart, Fritz Ludwig Felix; Cross, Gerald; Kershaw, Peter Leslie; Oliver, Trevor Exelby; and Farrant, Leonard George,3,424,377.
Farrar, Grover L.: *See—*
Bostian, Logan C.; Farrar, Grover L.; and Ulmer, Harry E.,3,456,014.
Peterson, Alan H.; and Farrar, Grover L.,3,447,914.
Farrar, Harold J.: *See—*
Bartholomay, Robert P.; Robinson, Wilbur D.; and Farrar, Harold J.,3,440,126.
Farrar, Lee M.; and Clark, Lowell E., to Motorola, Inc. Semiconductor device. 3,436,617, 4-1-69, Cl. 317-235.
Farrar, Malone H.; and Pitts, Robert W. Packaging apparatus. 3,468,102, 9-23-69, Cl. 53-385.
Farrar, Ralph C., to Phillips Petroleum Company. Process and catalyst for polymerizing butadiene or isoprene whereby the catalyst is composed of an or- ganoaluminum compound, iodine, and TiX_2 or TiX_3 complexed with fatty acid amides. 3,445,446, 5-20-69, Cl. 260-94.3
Farrar, Ralph C., to Phillips Petroleum Company. Aliphatic diluents in production of cis- polybutadiene. 3,458,492, 7-29-69, Cl. 260-94.3
Farrel Corporation: *See—*
Cournoyer, George R.; and Hold, Peter, 3,481,016.
Govan, William L., 3,446,053.
Miller, William R., Jr., 3,450,156.
Parrella, Alfred T.; and Gagliardi, Gene R., 3,430,400.
Parrella, Alfred T., 3,456,395.
Parrella, Alfred T.; Palubniak, Paul; and Gagliardi, Gene R., 3,461,612.
Farrell, Carl Y.: *See—*
Gerwick, Ben C., Jr.; and Farrell, Carl Y.,3,467,118.
Farrell, Edward A., to Sperry Rand Corporation. Selectable pulse width modulator using biased saturable transformer. 3,435,249, 3-25-69, Cl. 307-88.
Farrell, Guy M.; Gaber, Richard B.; Podgorski, Matthew C.; and Whitlock, Morris N., to F & F Enterprises Inc. String operated switch construction. 3,471,663, 10-7-69, Cl. 200-76.
Farrell, James R.: *See—*
Powers, Richard C., 3,473,299.
Farrell, John J.: *See—*
Tyrner, Joseph M.; and Farrell, John J.,3,469,751.
Farrell, John W.; Forgeng, William D.; and Rieder, Kurt O., to Union Carbide Corporation. Casting and sizing method for ferromanganese. 3,483,914, 12-16-69, Cl. 164-69.
Farrell, Richard T.: *See—*
Powers, Richard C., 3,473,299.
Farrell, Robert P., Jr., to General Electric Company. Wastewater sampling apparatus. 3,478,596, 11-18-69, Cl. 73-421.
Farrell, Ronald H. V., to Wilkinson Sword Limited. Methods of forming markings on metal surfaces. 3,471,385, 10-7-69, Cl. 204-143.
Farrell, Thomas C., to Rockwell Manufacturing Company. Temperature compensating apparatus for fluid flow meters. 3,439,538, 4-22-69, Cl. 73-230.
Farrell, Thomas P.; and Taylor, Jason H., to United States of America, Navy, mesne. Hard sediment gun corer. 3,477,525, 11-11-69, Cl. 175-4.
Farren, Paul L. Tilt shelf. 3,424,315, 1-28-69, Cl. 211-126.
Farren, Paul L. Storage container. 3,424,316, 1-28-69, Cl. 211-148.
Farren, Paul L. Reel storage device. 3,479,105, 11-18-69, Cl. 312-261.
Farrer, Sydney, to Bryan Donkin Company Limited, The. Safety cut-off valves for gas supply systems. 3,422,841, 1-21-69, Cl. 137-461.
Farrer, William Greenhalgh, to Stalwart Dyeing Co., Ltd. Multiple couple web press with cylinder registering mechanism. 3,472,161, 10-14-69, Cl. 101-181.
Farrier, Ernest G.: *See—*
Elbert, Raymond J.; and Farrier, Ernest G.,3,433,632.
Farrington Business Machines Corporation: *See—*
Hu, Yow-Jiun, 3,447,458.
Hu, Yow-Jiun, 3,468,244.
Hu, Yow-Jiun; and Buc, George L., 3,478,658.
Hu, Yow-Jiun, 3,483,060.
Patterson, James MacDowell, Jr.; and Davis, Rhodes W., 3,421,436.
Stocker, Alan F., 3,486,447.
Farrington, Diane G.: *See—*
Rafos, Robert R.; and Farrington, Diane G.,3,471,490.
Farrington, Frederick: *See—*
Nicklin, Thomas; and Farrington, Frederick,3,475,328.
Farrington, Grant M., Jr.; Stein, Joseph L.; and Treffner, Walter S., to General Refractories Company. Basic refractory lining brick and process. 3,425,852, 2-4-69, Cl. 106-58.
Farrington, John A., Jr.; Flynn, Gordon L.; Phillips, Stancel D.; and Scott, John V., to Anderson Electric Corporation. Clamp. 3,470,528, 9-30-69, Cl. 339-265.
Farrington, John Alan: *See—*
Crowdy, Stephen Henry; Farrington, John Alan; and Jeater, Roger Sidney Lockington,3,449,110.
Farrington, Wayne A.: *See—*
Watkins, Robert V.; and Farrington, Wayne A.,3,466,155.
Farris, Charles L.: *See—*
Fleming, Joseph D.; Sanchez, Earl J.; Farris, Charles L.; and Notley, Norman T.,3,440,083.
Farris, Edward L. Rotary fluid device. 3,447,476, 6-3-69, Cl. 103-136.
Farris, Louis A., Jr.; and Young, Luther W., to Surcon Surface Conditioning Products. Peening bead cleaner. 3,425,250, 2-4-69, Cl. 72-53.
Farris, Walter. Multiple automatic distance adjusting gel punch. 3,482,311, 12-9-69, Cl. 30-358.
Farrissey, William J., Jr., to Esso Research and Engineering Company. Vinylcyclohexenols. 3,476,816, 11-4-69, Cl. 260-617.
Farrissey, William J., Jr.; and Odinak, Alec, to Upjohn Company, The. Methylenebis(phenyl isocyanate) compositions and preparation thereof. 3,449,256, 6-10-69, Cl. 252-182.
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R., to Upjohn Company, The. Trich loro-bromoalkyl isocyanates. 3,437,680, 4-8-69, Cl. 260-453.
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R., to Upjohn Company, The. Process for the preparation of γ-(nitrophenyl) butyronitriles. 3,448,139, 6-3-69, Cl. 260-465.
Farrissey, William J., Jr.; Rose, James S.; and Sayigh, Adnan A. R., to Upjohn Company, The. N-Hydroxyalkyl derivatives of diphenylsulfone polycarboxamides. 3,448,150, 6-3-69, Cl. 260-559.
Farron, John R.; and Teitelbaum, Bernard R., to Bendix Corporation, The. Squeeze film bearings. 3,471,205, 10-7-69, Cl. 308-9.
Farrow, Cecil W., to Bell Telephone Laboratories, Incorporated. Counter circuit for providing a square-wave output. 3,439,278, 4-15-69, Cl. 328-41.
Farrow, Cecil W., to Bell Telephone Laboratories, Incorporated. Automatic D.C. offset compensation circuit for automatic equalizer. 3,477,043, 11-4-69, Cl. 333-18.
Farrow, John G., to Celanese Corporation. Plastic pipe sizing. 3,473,194, 10-21-69, Cl. 18-14.
Farsaie, Reza. Cigarette package. 3,472,361, 10-14-69, Cl. 206-38.
Fasanella, George S., to Englander Company, Inc., The. Dormitory furniture ensemble. 3,475,769, 11-4-69, Cl. 5-2.
Fasano, Frank: *See—*
Oberg, Hugh E., 3,421,472.
Fasano, Germano; Sacchi, Giorgio; and Pons, Claude. Thin-film rectifying device comprising a layer of CeF_3 between a metal and CdS layer. 3,440,499, 4-22-69, Cl. 317-234.
Fasciati, Alfred: *See—*
Buehler, Arthur; Sulzer, Georg; and Fasciati, Alfred,3,468,618.
Fasco Industries, Inc.: *See—*
Colby, Leo K.; and Kirby, Burton F., 3,465,181.
Fasnacht, James J.: *See—*
Eilerman, George E.; Sanguigni, John A.; Kolek, Robert L.; Fasnacht, James J.; and McWilliams, Donald E.,3,437,517.
Vanderbilt, Byron M.; and Fasnacht, James J.,3,484,223.
Fassauer, Arthur L. Process for forming a water and air impermeable forage cover and thereafter ensiling. 3,485,635, 12-23-69, Cl. 99-8.

Fassbender, Herbert, to Glanzstoff Koln GmbH. Spinneret. 3,454,986, 715-69, Cl. 18-8.
Fassett, David W.: *See—*
Coover, Harry W., Jr.; and Fassett, David W.,3,483,870.
Fassett, Gardner L.; and van Renssen, Marinus, to RCA Corporation. Cathode ray tube manufacture. 3,482,286, 12-9-69, Cl. 29-25.13
Fassett, John R.: *See—*
Bush, Harry D.; and Fassett, John R.,3,456,186.
Fassett, Matthew, to Stromberg-Carlson Corporation. Light-operated sound-signal telephone transmitter and transmission system. 3,466,446, 9-9-69, Cl. 250-199.
Fast, Byron L.; and Reschetz, Raymond R., to Staley, A. E., Manufacturing Company. Processing of sylvinite ores. 3,456,790, 7-22-69, Cl. 209-166.
Fast, Clarence R.: *See—*
Flickinger, Don H.; and Fast, Clarence R.,3,486,559.
Fast, Nathan. Bowling ball retarder with replaceable cloth cover. 3,451,676, 6-24-69, Cl. 273-47.
Fast, Robert B.; Spotts, Clyde E.; and Morck, Roland A., to National Biscuit Company. Process for making a puffable chip-type snack food product. 3,451,822, 6-24-69, Cl. 99-100.
Fastener Corporation: *See—*
Baum, William H., 3,437,249.
Doyle, Richard M., 3,434,026.
Fiedler, Armin, 3,437,250.
Gallee, George J.; Obergfell, Allen R.; and Doyle, Richard H., 3,438,487.
Gallee, George J.; and Novak, Edward J., 3,463,304.
Morabito, Salvatore L.; and Mullaney, Frank W., 3,436,004.
Mosetich, Joseph, 3,450,255.
Obergfell, Allen R., 3,447,426.
Wandel, Oscar A., 3,434,643.
Fastron Company, The: *See—*
Cochrum, William A., 3,461,470.
Fastway Fasteners, Inc.: *See—*
Ptak, Wilbur F., 3,463,432.
Ptak, Wilbur Frank, 3,422,722.
Fathauer, George H., to Dole Valve Company, The. Level control. 3,421,537, 1-14-69, Cl. 137-392.
Fathauer, George H., to Duncan Parking Meter Corporation. Doppler radar having digital speed indicator. 3,438,031, 4-8-69, Cl. 343-8.
Fathauer, George H. Dryer control. 3,439,991, 4-22-69, Cl. 431-71.
Fatherley, Michael: *See—*
Wall, Wilfred Frank; Fatherley, Michael; and Boothroyd, Brian,3,422,103.
Fatica, Nicholas: *See—*
Lord, Albert M.; Walsh, Thomas J.; and Fatica, Nicholas,3,459,596.
Fatosme, Albert Rene; and Coste, Henri Georges. Building of walls. 3,465,487, 9-9-69, Cl. 52-241.
Fats and Proteins Research Foundation, Inc.: *See—*
Snyder, Milton J.; Lipinsky, Edward S.; and Burch, Joseph E., 3,424,598.
Fattore, Vittorio: *See—*
Giordano, Nicola; Cavaterra, Enrico; and Fattore, Vittorio,3,471,545.
Fattore, Vittorio; Petrini, Guido; and Cavaterra, Enrico, to Montecatini Edison S.p.A. Process for the production of catalysts containing molybdenum and/or tungsten. 3,474,042, 10-21-69, Cl. 252-458.
Vecchio, Martino; Lodi, Luciano; Fattore, Vittorio; and Cammarata, Italo,3,476,817.
Fatuzzo, Ennio; and Merz, Walter J., to RCA Corporation. Insulating ferroelectric gate adaptive resistor. 3,463,973, 8-26-69, Cl. 317-235.
Fau, Maurice. Luggage racks. 3,473,674, 10-21-69, Cl. 211-151.
Fauber, Eugene M., to Sinclair Oil Corporation. Air blown asphalt pitch composition. 3,462,359, 8-19-69, Cl. 208-23.
Fauber, Eugene M., to Sinclair Research, Inc. Asphalt blends of hydrocarbon precipitated asphalts with hydrocarbon aromatic extracts. 3,476,679, 11-4-69, Cl. 208-45.
Fauche, Paul Charles; and Lacan, Philippe, to Rhone-Poulenc S.A. Process for the purification of chlorosilanes by distillation and thin-film evaporation. 3,428,530, 2-18-69, Cl. 203-72.
Fauchere, Jean, to Societe Anonyme dite Richier. Variable speed drive. 3,421,389, 1-14-69, Cl. 74-665.
Faud, Robert H.: *See—*
Lake, Clarence L.; Barron, Larry R.; and Faud, Robert H.,3,445,436.
Faude, Rudolf; Haller, Willi; and Hengstler, Heinz, to Hecon Corporation, mesne. Control device. 3,436,530, 4-1-69, Cl. 235-92.
Faude, Rudolf: *See—*
Haller, Willi; and Faude, Rudolf,3,441,719.
Faudemay, Edmond Lucien Jean: *See—*
Cardinet, Guy; and Faudemay, Edmond Lucien Jean,3,448,684.
Faugli, Ivar Odd: *See—*
Faugli, Per Ragnar; Faugli, Ivar Odd; and Hegsvold, Oivind,3,477,340.
Faugli, Per Ragnar; Faugli, Ivar Odd; and Hegsvold, Oivind. Milling cutter holder. 3,477,340, 11-11-69, Cl. 90-11.
Faul, Thomas L.; Sherman, T. Jefferson; and Wittholz, Charles W. Twin hullboat. 3,470,839, 10-7-69, Cl. 114-61.
Faulconer, Harry A. Solenoid-actuated air cylinder. 3,427,837, 2-18-69, Cl. 72-15.
Faulhaber, Fritz, to Retobobina Handelsanstalt, mesne. Direct-current motor. 3,467,847, 9-16-69, Cl. 310-266.
Faulkingham, Clifford H. Box flap combined pick-up lever and support for staplers to facilitate stapling. 3,458,100, 7-29-69, Cl. 227-154.
Faulkner, Albert A., to Harmonic Reed Corporation. Dome hoist. 3,454,259, 7-8-69, Cl. 254-144.
Faulkner, Albert A., to Harmonic Reed Corporation. Dome hoist. 3,459,406, 8-5-69, Cl. 254-144.
Faulkner, Alfred H., to General Motors Corporation. Magnetic memory system. 3,478,333, 11-11-69, Cl. 340-174.
Faulkner, Ellis May, III, to Albany Billiard Ball Company. Method of fabricating a plastic game ball. 3,426,121, 2-4-69, Cl. 264-250.
Faulkner, Eric Andrew: *See—*
Dawnay, John Christian George; and Faulkner, Eric Andrew,3,451,002.
Faulkner, Kenneth Francis; and Plume, Alan Walter, to Heatlock Limited. Electrical resistance furnaces. 3,431,345, 3-4-69, Cl. 13-22.
Faulkner, Richard D.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,453,172.
Faull, James K.: *See—*
Niemi, Herbert W., 3,445,147.
Faulstich, Eugene W. Extension ladder. 3,425,508, 2-4-69, Cl. 182-18.
Faun Kommunalfahrzeuge und Lastkraftwagen Karl Schmidt: *See—*
Linzenkirchner, Karl, 3,485,444.
Faur, Louis; and Westforp, Pieter, to Lever Brothers Company. Treatment of fats. 3,458,545, 7-29-69, Cl. 260-419.
Faure, Andree: *See—*
Hoffmann, Charles; and Faure, Andree,3,446,799.
Hoffmann, Charles; and Faure, Andre,3,466,373.
Faure, Marc Henri Jean: *See—*
Guienne, Paul Francois; and Faure, Marc Henri Jean,3,438,457.
Faure, Robert. Vehicular attachment for trailer hitches. 3,447,817, 6-3-69, Cl. 280-491.
Faurote, Philip D.; and Segal, Charles L., to North American Rockwell Corporation. Process for controlling the chain length of poly(phenylene oxide). 3,440,217, 4-22-69, Cl. 260-47.
Faurote, Philip D.: *See—*
Segal, Charles L.; and Faurote, Philip D.,3,422,062.
Fauser, Donald L.: *See—*
Adams, Dolor N.; and Fauser, Donald L.,3,471,625.
Bobalek, Edward G.; Hart, John R.; and Fauser, Donald L.,3,486,889.
Fauser, Ernest E., to Goodyear Tire & Rubber Company, The. Hydrocarbon copolymers containing 2(4-cyclohexenyl) [2,2,1]bicyclohept-5-ene. 3,487,055, 12-30-69, Cl. 260-79.5
Fausett, Dale L.: *See—*
Bruder, John F.; and Fausett, Dale L.,3,465,313.
Faust, Donald M.: *See—*
Dixon, Thomas E.; Faust, Donald M.; and Frey, Max,3,476,016.
Faust, Donald M., to Cascade Corporation. Folding arm assembly for a load pusher. 3,458,075, 7-29-69, Cl. 214-514.
Faust, Donald M.; and Chochrek, Henry F., to Cascade Corporation. Clamping mechanism. 3,449,009, 6-10-69, Cl. 244-104.
Faust, Hans-Dieter; and Rossner, Wolfgang, to Siemens Aktiengesellschaft. Method and apparatus for overlay welding. 3,428,774, 2-18-69, Cl. 219-76.
Faust, John A.; and Sahyun, Melville, to Melville Sahyun, doing business as Sahyun Laboratories. s-Alkoxy-trifluoromethylphenalkylamines. 3,459,803, 8-5-69, Cl. 260-570.6
Faust, John Andrew; and Sahyun, Melville, to Sahyun, Melville, d.b.a. Sahyun Laboratories. Diazaheterocyclic substituted benzoxaheterocyclic compounds. 3,438,995, 4-15-69, Cl. 260-309.6
Faust, John P.; and Robson, Homer L., to Olin Mathieson Chemical Corporation. Crystallization of calcium hypochlorite dihydrate employing zinc ions. 3,440,024, 4-22-69, Cl. 23-300.
Faust, John W., Jr.; and John, Harold F., to Westinghouse Electric Corporation. Utilization of trace impurities in the vapor growth of crystals. 3,473,974, 10-21-69, Cl. 148-174.
Faust, John W., Jr.; John, Harold F.; and Rubenstein, Martin S., to Westinghouse Electric Corporation. Formation of heterojunction devices of epitaxial growth from solution. 3,447,976, 6-3-69, Cl. 148-1.5
Faust, Joseph P., Sr. Round hooded chain saw sharpener. 3,426,625, 2-11-69, Cl. 76-37.
Faust, Joseph P., Sr. Round hooded chain saw sharpener. 3,470,772, 10-7-69, Cl. 76-37.

Faust, Wayne J.: *See—*
Rosenwald, Robert H.; and Faust, Wayne J.,3,436,195.
Faustini, Albert J., to American Optical Corporation, mesne. Valving mechanism having continuously flushed liquid seal. 3,442,285, 5-6-69, Cl. 137-240.
Faustini, Albert J., to Warner-Lambert Pharmaceutical Company. Electrically actuated valve. 3,452,780, 7-1-69, Cl. 137-625.48
Fauth, Guenter, to Agfa-Gevaert Aktiengesellschaft. Photographic impact shutter. 3,446,132, 5-27-69, Cl. 95-53.
Fauth, Guenter; and Nusser, Helmut, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with flash unit. 3,463,067, 8-26-69, Cl. 95-11.
Fauth, John M.; and Scott, Donald S., to Singer Company, The. Motor with clutch-brake arrangements. 3,476,962, 11-4-69, Cl. 310-76.
Fauth, Otto, to Bilz, Otto. Quick-change chuck. 3,443,818, 5-13-69, Cl. 279-16.
Fauvelle, Rose Mary. Skip rope formed of sections. 3,475,023, 10-28-69, Cl. 272-75.
Favereau, Jacques Rene, to Aktiengesellschaft Brown, Boveri & Cie. Arrangement for producing homogeneous magnetic fields with very high field strength. 3,428,927, 2-18-69, Cl. 335-299.
Favis, Dimitrios V., to Esso Research and Engineering Company. Catalytic synthesis of linear alpha olefins. 3,472,910, 10-14-69, Cl. 260-683.15
Favorite Nest Works, Inc.: *See—*
Burkholder, Harvey Z., 3,485,214.
Favors, Jack E., to Global Systems, Inc. Evacuation slide. 3,458,009, 7-29-69, Cl. 182-48.
Favre, Francois: *See—*
Bossard, Werner; Favre, Francois; Wegmuller, Hans E.; and Voltz, Jacques,3,471,468.
Favre, John A., to Phillips Petroleum Company. Swivel conduit coupling. 3,450,423, 6-17-69, Cl. 285-169.
Favre, Marcel, to Gebr. Staublic & Co. Dobby machines. 3,459,236, 8-5-69, Cl. 139-71.
Favre, Robert, to Golay Buchel & Cie S.A. System for forming pilot voltages for controlling electronic commutation channels for induction motors. 3,436,631, 4-1-69, Cl. 318-138.
Favre, Robert, to Fabriques Movado & Manufacture des Montres Universal Perret Freres S.A. Device for stabilising the oscillation frequency of a mechanical oscillator for time keeping instrument. 3,463,948, 8-26-69, Cl. 310-25.
Faw, Price C.: *See—*
Posey, Robert P.; and Faw, Price C.,3,443,532.
Posey, Robert P.; and Faw, Price C.,3,443,533.
Fawcett, Frank Shumate: *See—*
Bechtold, Max F.; and Fawcett, Frank Shumate,3,429,845.
Fawell, Joseph E. Wheel handling apparatus. 3,438,510, 4-15-69, Cl. 212-128.
Fawkes, Donald G., to Pratt, Henry, Company. Ball valve structure. 3,447,781, 6-3-69, Cl. 251-315.
Fawkes, Donald G., to Pratt, Henry, Company. Valve operator. 3,459,058, 8-5-69, Cl. 74-89.15
Fawkes, Donald G., to Pratt, Henry, Company. Skewed seat butterfly valve. 3,475,007, 10-28-69, Cl. 251-305.
Fawkes, Donald G., to Pratt, Henry, Company. Angle seating butterfly valve with skewed disc. 3,480,254, 11-25-69, Cl. 251-305.
Fawkham Developments Limited: *See—*
Thyer, Edward G. S., 3,433,467.
Fawn Engineering Company: *See—*
Wittern, Francis Arthur, 3,426,670.
Fawzy, Moharram M., to Rowe Industries, Inc. Silver-carbon brush block and method of making same. 3,455,023, 7-15-69, Cl. 29-630.
Faxen, Per Torsten; and Ericsson, Hans T., to Saab Aktiebolag. Toss bombing instrument having improved means for acquisition of distance data at pickle. 3,474,704, 10-28-69, Cl. 89-1.5
Faxon, Charles Edward. Electromagnetic attracting and repelling motor. 3,478,237, 11-11-69, Cl. 310-68.
Fay, Harold J. Collapsible automobile trailer. 3,482,850, 12-9-69, Cl. 280-41.
Fay, James P. Sterilization control means. 3,450,489, 6-17-69, Cl. 21-93.
Fay, Lawrence J., to Equito Electronics Corporation. Latching device for cabinets. 3,462,980, 8-26-69, Cl. 70-81.
Fay, Lawrence P., to Roll-O-Flex Ltd. Hydraulic elevating controls. 3,486,761, 12-30-69, Cl. 280-43.23
Fay, Richard J.; and Keitel, Philip J., to United States of America, Navy, mesne. Flame coloring device. 3,447,881, 6-3-69, Cl. 431-126.
Fay, Richard J.; and Keitel, Philip J., to United States of America, Navy, mesne. Gelled pyrotechnic flare composition containing water-soluble carboxy vinyl polymer resin. 3,461,006, 8-12-69, Cl. 149-19.
Fay, Rudolph J. Method and apparatus for producing shaped articles. 3,427,649, 2-11-69, Cl. 107-8.
Fay, Thomas W.: *See—*
Glucksman, Dov Zeev; and Fay, Thomas W.,3,477,635.
Faymonville, Ernst, to Malmedie & Co. Maschinenfabrik G.m.b.H. Multi-stage machine tool. 3,452,582, 7-1-69, Cl. 72-421.
Fayolle, Leon: *See—*
Williamson, David Theodore Nelson; Kahn, Charles Henri; and Fayolle, Leon,3,472,103.
Fazzini, Massimo, to Scharper S.a.s. per l'Industria Farmaceutica di Dott. M. Fazzini & C.1-Methyl-3-hydroxy-6-oxo-5-[(amido)alkanoyl- hydrazono]-2,3,5,6-tetrahydro-indoles. 3,472,871, 10-14-69, Cl. 260-326.14
Feagin, Roy C.; Dahowski, Edward L.; and Kosmos, Peter, to Howmet Corporation. Refractory mold composition and method. 3,432,312, 3-11-69, Cl. 106-38.3
Feairheller, William R., Jr.: *See—*
Parts, Leo P.; and Feairheller, William R., Jr.,3,477,932.
Fearing, Ralph B., to Stauffer Chemical Company. O-lower alkyl-S-anisyl chloromethylphosphorodithioates. 3,442,985, 5-6-69, Cl. 260-951.
Fearing, Ralph B.; and McClelland, Malcolm B., to Stauffer Chemical Company. Control of fungi with O,O-diethyl-S-trichloromethylphosphorodithioate. 3,439,092, 4-15-69, Cl. 424-225.
Fearon, Ralph L.; and Story, Robert M., to Western Electric Company, Incorporated. Inductive coil and method of making the same. 3,461,414, 8-12-69, Cl. 336-192.
Fearon, Robert Earl; and Foss, Rudolph George, to Ciba Corporation. Exothermic composition containing a metal oxide and acid or acid salts. 3,475,239, 10-28-69, Cl. 149-109.
Fearon, Robert E. Method of labeling. 3,451,778, 6-24-69, Cl. 23-230.
Fears, Lowell T., to Miracle Mask, Inc. Applicator for fluids. 3,459,482, 8-5-69, Cl. 401-15.
Feaster, Guy R.; and Larson, Miles B. Planing fish lure with scent dispenser. 3,453,768, 7-8-69, Cl. 43-42.06
Feat, Jen, to Crouzet. Apparatus for the recording and reproduction of messages. 3,467,781, 9-16-69, Cl. 179-6.
Feather, Alec, to Tech Consolidated Inc. Method of two-section slush molding. 3,429,960, 2-25-69, Cl. 264-245.
Feather, Landis E., to Westinghouse Electric Corporation. Transformer construction. 3,467,932, 9-16-69, Cl. 336-197.
Feather, Peter: *See—*
Ellis, Bernard; Feather, Peter; Mac Bride, Hugh; and Petrow, Vladimir,3,437,657.
Petrow, Valdimir; Burgess, Colin Michael; and Feather, Peter,3,470,193.
Feather, Peter; and Petrow, Vladimir, to British Drug Houses Limited,. The. 17α-alka-1',3'-diynyl-steroidal-. 3,442,918, 5-6-69, Cl. 260-397.4
Feather, Peter; and Petrow, Vladimir, to British Drug Houses Limited, The. 17α-Alka-1',3'-diynyl-steroidal- 4,9(10)-dien-3-ones. 3,442,919, 5-6-69, Cl. 260-397.4
Feather, Peter; and Petrow, Vladimir, to British Drug Houses Limited, The. 17α-alka-1',3'-diynyl steroids and process for preparing same. 3,463,796, 8-26-69, Cl. 260-397.4
Feather, Peter; and Petrow, Vladimir, to British Drug Houses Limited, The. Substituted-17α-buta-1',3'- diynyl-17α-hydroxy (17β-alkoxy)-steroids and process for preparation thereof. 3,463,797, 8-26-69, Cl. 260-397.4
Featherston, John P.: *See—*
Lehman, William E.; Meade, Billy D.; and Featherston, John P.,3,482,824.
Featherston, Richard Henry: *See—*
Schmidt, Richard Lee; and Featherston, Richard Henry,3,443,992.
Featherston, Richard Henry; and Carroll, Silas Edward, to Reynolds Metals Company. Process for removing chromium and silicon values from aluminate solutions. 3,440,005, 4-22-69, Cl. 23-52.
Fechant, Louis Joseph, to La Telemecanique Electrique. Deformable loom apparatus for measuring alternating currents. 3,434,052, 3-18-69, Cl. 324-127.
Fecher, Friedrich; Schoenmann, Jakob; and Rosewicz, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for the production of welded bags from thermoplastic tubular sheeting by means of radiant heat. 3,461,017, 8-12-69, Cl. 156-380.
Fechter, Leonhard Emil, to Passavant-Werke. Apron conveyor cleaner mechanism. 3,485,342, 12-23-69, Cl. 198-229.
Fechtig, Bruno: *See—*
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Schenker, Karl; and Urech, Jakob,3,483,197.
Urech, Jakob; Fechtig, Bruno; Bosshardt, Rolf; Bickel, Hans; Schenker, Karl; and Wilhelm, Max,3,484,437.
Vischer, Ernst; Fechtig, Bruno; and Bickel, Hans,3,454,564.
Fechtner, Jan: *See—*
Barta, Jiri; Fechtner, Jan; Hanzlicek, Jiri; Verner, Miroslav; and Vesely, Dobromil,3,464,919.
Fedders Corporation: *See—*
Geibel, Emmett H., 3,486,529.
Knerr, Carl J.; Silva, William C.; and Hartley, Curtis R., 3,425,437.
Triplett, Robert D.; Buck, Leo V.; and Laue, Terry J., 3,447,248.

Triplett, Robert D., 3,483,632.
Feder, David O.: *See—*
Babusci, Louis D.; Cretella, Biagio A.; Feder, David O.; and Koontz, Donald E.,3,434,883.
Feder, Donald P., to Eastman Kodak Company. Four component objective lens. 3,466,117, 9-9-69, Cl. 350-220.
Feder, Ernest, to United Aircraft Corporation. Modular seal for aircraft launching cylinder. 3,428,272, 2-18-69, Cl. 244-63.
Feder, Ernest; Kransnitski, John; and Vercellone, Peter T., to United Aircraft Corporation. Floating pneumatic thrust cylinder for aircraft launching system. 3,454,242, 7-8-69, Cl. 244-63.
Feder, Ernest: *See—*
Tyler, John M.; Havens, Frederick D.; Hickok, Richard C.; and Feder, Ernest,3,420,053.
Feder, Friedhelm R., to Wedco, Inc. Size reduction of heat sensitive material. 3,428,260, 2-18-69, Cl. 241-15.
Feder, Friedhelm R., to Wedco, Inc. Apparatus suitable for treatment of thermoplastic material to improve flowability thereof. 3,472,491, 10-14-69, Cl. 259-9.
Feder, Morton. Directory cover. 3,425,421, 2-4-69, Cl. 129-38.
Federal Aviation Administration: *See—*
Maguire, Hugh T., 3,447,153.
Federal Carton Corporation: *See—*
Dorfmann, Oskar, 3,462,914.
Stark, Arthur, 3,446,412.
Federal Cartridge Corporation: *See—*
Merritt, Edward E.; Titterud, Curtiss W.; Peterson, Stanley E.; and Bulow, Arthur J., 3,478,390.
Federal Electronics, Inc.: *See—*
Stiebel, Ariel I.; and Lippmann, Seymour A., 3,431,470.
Federal Equipment Co.: *See—*
Barner, Elwood M., 3,481,167.
Federal Huber Company: *See—*
Stayner,Vance A., 3,419,919.
Federal Laboratories, Inc.: *See—*
Amster, Stanley A., 3,430,568.
Federal Pacific Electric Company: *See—*
Butrico, Frank A., 3,441,816.
Laakso, William, 3,480,899.
Roy, Wayne C., 3,479,563.
Wingard, Henry S., 3,441,697.
Federal Paper Board Company, Inc.: *See—*
Arneson, Edwin L., 3,443,723.
Kulig, Francis V., 3,454,157.
Federal Products Corporation: *See—*
Jelinek, Otto C., 3,437,071.
Miller, Raymond H.; and Clark, Earl S., 3,471,934.
Worthen, John H., 3,422,540.
Worthen, John H., 3,442,020.
Federal Screw Works: *See—*
Estes, Ronald; and Storch, Harold A., 3,426,819.
Koss, Richard P., 3,421,563.
Federal Sign and Signal Corporation: *See—*
Logan, Richard W., 3,433,459.
Logan, Richard W., 3,451,504.
Federal Steel Corporation: *See—*
Kates, Richard, 3,442,201.
Federal Tool Engineering Co.: *See—*
Pityo, Edward L., 3,460,930.
Federal Tool Engineering Company: *See—*
Pityo, Albert F., 3,479,712.
Federal Weather Strips Inc.: *See—*
Lavallee, Nelson J. B., 3,438,110.
Federal-Mogul Corporation: *See—*
Beebe, Austin H., Jr., 3,445,909.
Bentley, Gustavus A., 3,467,421.
Burfield, Peter C.; and Micai, Louis Z., 3,479,728.
Dilks, Harold R., 3,482,355.
Haller, John, 3,482,865.
Micai, Louis Z.; and Seemann, Andrew M., 3,472,926.
Pratt, Willard R., 3,443,343.
Rhoads, George D.; and Haynie, Robert N., 3,439,407.
Scheifele, Hudson B., 3,425,758.
Federated Merchandisers, Inc.: *See—*
Harvey, Charles A.; Harvey, Henry E.; and Hill, Albert E., 3,481,483.
Federline, Calvin W. Universal joints. 3,453,841, 7-8-69, Cl. 64-7.
Federman, Alfred P., 50% to Giles, Homer W. Method of coating a steel base with aluminum. 3,468,695, 9-23-69, Cl. 117-51.
Fedorenko, Alejandro Fedorenko. Aircraft mounted spraying sytem. 3,455,511, 7-15-69, Cl. 239-171.
Fedorov, Boris Nickolaevich: *See—*
Dubrovin, Boris Nickolaevich; Fedorov, Boris Nickolaevich; Blekhman, Ilja Izrailevich; and Petrosjants, Anatoly Aramaisovich,3,467,318.
Fedorova, Anna Pavlonvna: *See—*
Trusov, Viktor Matveevich; Fedorova, Anna Pavlonvna; and Chernetsky, Evgeny Mikhailovich,3,482,084.
Fedoryk, Fred P. Portable lean-to scaffolds. 3,425,510, 2-4-69, Cl. 182-117.
Fedotov, Igor Leonidovich; Yanushkovaky, Vladimr Alexandrovich; Taxar, Iegoshua Mikhailovich; and Olshvanger, Boris Akibovich. Method for determining the surface density and thickness of sheet materials and films. 3,452,202, 6-24-69, Cl. 250-83.3
Fedotowsky, Andre: *See—*
Farley, John David, 3,456,661.
Fedowitz, Frank, Jr., to TRW Inc. Open chamber breech mechanism with scarfed firing strap. 3,446,115, 5-27-69, Cl. 89-155.
Fedtro, Inc.: *See—*
Kahn, Robert D., 3,423,059.
Kahn, Robert D., 3,445,730.
Kahn, Robert D., 3,471,829.
Kahn, Robert D., 3,473,251.
Fee, Richard A., to Hubbell, Harvey, Incorporated. Power inlet with auxiliary circuit controlling switch. 3,452,167, 6-24-69, Cl. 200-51.09
Fee, Willard E. Food can, reminder tag and holder therefor. 3,422,558, 1-21-69, Cl. 40-306.
Feeback, Ralph S. Omnitorque opposed piston engine. 3,485,221, 12-23-69, Cl. 123-51.
Feed Service Corporation: *See—*
Anderson, Philip Carlton; and Rapp, Janet Lorraine Cooper, 3,476,565.
Anderson, Philip Carlton; and Rapp, Janet Lorraine Cooper, 3,484,243.
Feedback Limited: *See—*
Lipscombe, William Mark, 3,484,684.
Feehan, John D.: *See—*
Banes, Nathan M.; Feehan, John D.; and Stepura, Raymond M.,3,444,486.
Feenan, John: *See—*
Jacks, Eric; Feenan, John; and Clarke, Wilfred,3,451,025.
Feenan, John; Jacks, Eric; and Murphy, John Eric, to English Electric Company Limited, The. Method of manufacturing fuse elements from strip material for cartridge fuse links. 3,432,923, 3-18-69, Cl. 29-623.
Feeney, Joseph W.; Pojawis, Paul L.; Allenbaugh, James E., Jr.; and Mc Nair, John W., Jr. Folding carton blank. 3,463,656, 8-26-69, Cl. 117-44.
Feenstra, Robijn, to Shell Oil Company. Manufacturing diamond bits. 3,453,719, 7-8-69, Cl. 29-473.1
Feenstra, Robijn, to Shell Oil Company. Method of connecting a steel blank to a tungsten bit body. 3,471,921, 10-14-69, Cl. 29-473.1
Feeser, William Coover; Bosland, Cornelius William; Lockard, Joseph Larue; and Mummey, Dale Brice, to AMP Incorporated. Plugboard system. 3,430,183, 2-25-69, Cl. 339-18.
Feess, Erich: *See—*
Homuth, Horst; Feess, Erich; and Schidlo, Wolfram,3,442,601.
Feffer, Philip C.; Polino, Amleto C.; and Rickell, Arthur L., to Sagner, Inc. Front edge pressing machine. 3;427,737, 2-18-69, Cl. 38-20.
Fegan, Richard M.; and Wells, Henry B., III, to Singer Company, The. Lawnmower rotary blade friction clutch. 3,429,112, 2-25-69, Cl. 56-295.
Fegley, Albert P., to Burroughs Corporation. Regulated power system. 3,473,039, 10-14-69, Cl. 307-11.
Fegley, Charles R.; and Regneth, Lorenz, to Western Electric Company, Incorporated. Gauging and sorting apparatus. 3,464,548, 9-2-69, Cl. 209-74.
Feher, Franz: *See—*
Bulian, Walter; Feher, Franz; and Dittmar, Armin,3,474,028.
Feher, Joseph J. Radius spin drill. 3,429,171, 2-25-69, Cl. 72-325.
Fehlings, Herbert Joseph, to Pressluftwerkzeug und Maschinenbau Premag G.m.b.H. Valve control arrangement for reversible motors, especially for compressed-air rotary-piston motors. 3,426,648, 2-11-69, Cl. 91-121.
Fehlman, Barry F. Lineup clamp for pipe. 3,422,519, 1-21-69, Cl. 29-200.
Fehlman, Barry F. Apparatus for welding pipe joints. 3,424,887, 1-28-69, Cl. 219-60.
Fehn, Allan J.: *See—*
Ashlin, David L.; and Fehn, Allan J.,3,426,815.
Fehnel, Richard B., to Burroughs Corporation. Indicator tube having auxiliary electrodes for maintaining cathode glow. 3,480,820, 11-25-69, Cl. 313-109.5
Fehr, Bernard Henri Paul; and Gascon, Joseph, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Preparation of zirconium compounds. 3,445,199, 5-20-69, Cl. 23-315.
Fehrenbach, Siegfried: *See—*
Bacher, Gottlob; and Fehrenbach, Siegfried,3,439,987.
Fehst, Jurgen; Kurten, Wilhelm; and Schettlinger, Herbert, to Hobema-Maschinenfabrik. Apparatus for transferring stacks of sheet material including folded paper handkerchiefs and the like. 3,451,521, 6-24-69, Cl. 198-24.
Feibelman, Hans J., to Coro, Inc. Display stand. 3,424,313, 1-28-69, Cl. 211-13.
Feibush, Arthur M., to United States of America, Atomic Energy Commission. Low temperature irradiation of monomer impregnated cellulosic bodies. 3,420,761, 1-7-69, Cl. 204-159.12

Feichter, Harold R.; Abernethy, Ira A.; Eishley, Charles F.; Cable, Stephen J.; and Hoffman, Olin M., to United States Ceramic Tile Company. Pre-grouted ceramic tile assemblies. 3,444,660, 5-20-69, Cl. 52-309.

Feichtinger, Hans: *See—*
Gothel, Herbert; and Feichtinger, Hans,3,444,081.
Noeske, Heinz; Feichtinger, Hans; and Linden, Hanswerner,3,444,132.

Feick, Harry, Co., Inc.: *See—*
Martin, Ricky, 3,452,214.

Feiertag, Orrin G., to General Electric Company. X-ray tabletop extension and tilt control. 3,473,024, 10-14-69, Cl. 250-55.

Feigel, Harold J., to General Gummed Products, Inc. Container length sensing device. 3,455,082, 7-15-69, Cl. 53-66.

Feighofen, Hans, to Haller, John. Expansible connector. 3,433,514, 3-18-69, Cl. 287-124.

Feigin, Franklin L.: *See—*
Stites, Francis H.; and Feigin, Franklin L.,3,456,997.

Feigin, Leon, to United Aircraft Corporation. Fused character digital readout device having half of each character common with another character. 3,444,552, 5-13-69, Cl. 340-379.

Feigleson, Charles O., to Collins Radio Company. Analog-to-digital converter. 3,440,645, 4-22-69, Cl. 340-347.

Feikema, Roger H. Model car and track system. 3,486,271, 12-30-69, Cl. 46-243.

Feild, Fay R., to Treasure Salvors, Inc. Proton precession magnetometer with improved means for polarization and larmor frequency determination. 3,443,207, 5-6-69, Cl. 324-0.5

Feild, George B., to Hercules Incorporated. Synthetic yarn and method of making the same. 3,460,337, 8-12-69, Cl. 57-140.

Fein, Harvey C. Curtain suspension device. 3,434,524, 3-25-69, Cl. 160-345.

Fein, Marvin M.: *See—*
Barabas, Eugene S.; and Fein, Marvin M.,3,468,831.
Grafstein, Daniel; Bobinski, Jack; and Fein, Marvin M.,3,458,580.

Fein, Marvin M.; and Barabas, Eugene S., to GAF Corporation. Copolymer compositions. 3,474,079, 10-21-69, Cl. 260-86.1

Fein, Marvin M.; Green, Joseph; and O'Brien, Eugene L., to Thiokol Chemical Corporation. Thermally stable polymeric products. 3,431,234, 3-4-69, Cl. 260-46.5

Fein, Marvin M.; Paustian, John E.; and Lichstein, Bernard M., 1/2 to Thiokol Chemical Corporation, and 1/2 to Olin Mathieson Corporation, mesne. Process for preparing carboranes. 3,483,258, 12-9-69, Cl. 260-606.5
Paustian, John E.; and Fein, Marvin M.,3,459,607.
Paustian, John E.; Fein, Marvin M.; and Cohen, Murray S.,3,436,172.

Feinauer, Roland; Hamann, Karl; and Jacobi, Manfred, to Chemische Werke Huls Aktiengesellschaft. 2-Acylimino-1,3-Oxathiolanes and process for their production. 3,480,647, 11-25-69, Cl. 260-327.

Feinauer, Roland: *See—*
Nehring, Rudolf; Feinauer, Roland; and Seeliger, Wolfgang,3,470,268.

Feinberg, Irving, to Presto Lock Co., Inc. Latching and locking means for luggage cases or the like. 3,434,313, 3-25-69, Cl. 70-70.

Feinberg, Maurice. Computer tape transport. 3,484,051, 12-16-69, Cl. 242-55.19

Feinberg, Sherwood E. Indian wrestling amusement device. 3,467,376, 9-16-69, Cl. 273-1.

Feindler, Klaus S.: *See—*
Pall, David B.; Feindler, Klaus S.; and Vogel, Arthur,3,448,038.

Feiner, Alfred; Hamann, Rudolf; and Schopf, Clemens, to Strabag Bau-A.G. Dam construction. 3,429,130, 2-25-69, Cl. 61-63.

Feinerman, Bernard: *See—*
Vogelman, Joseph Herbert; Stephenson, Kenrick; and Feinerman, Bernard,3,476,882.

Feinkost, H. W. Appel, A.G.: *See—*
Potzl, Ernst, 3,468,675.

Feinleib, Morris, to Varian Associates. Porous intermediate layer for affixing lossy coatings to R. F. tube circuits. 3,475,707, 10-28-69, Cl. 333-83.

Feinman, Harvey M.: *See—*
Prindle, Charles; and Feinman, Harvey M.,3,444,459.

Feinman, Jerome, to United States Steel Corporation. Valve for regulating flow of high-temperature liquids. 3,448,761, 6-10-69, Cl. 137-375.

Feinmechanik Weilheim GmbH: *See—*
Zwick, Kurt, 3,439,457.

Feinstein, Joseph, to Varian Associates. Spot counter employing a vidicon tube having a pickup screen with different spectral sensitivities. 3,439,212, 4-15-69, Cl. 315-10.

Feinstein, Joseph; and Jory, Howard R., to Varian Associates. High frequency electron discharge device. 3,457,450, 7-22-69, Cl. 315-5.

Feinstein, Joseph; Jory, Howard R.; and Trivelpiece, Alvin W., to Varian Associates. Cyclotron motion linear accelerator. 3,450,931, 6-17-69, Cl. 315-5.

Feintuch, Martin W.: *See—*
Doniger, Jerry; Schoenblum,Ervin; and Feintuch, Martin W.,3,447,765.

Feinwerkbau Westinger & Altenburger KG, Messrs.: *See—*
Lehle, Robert, 3,438,278.

Feissel, Henri Gerard, to Societe Industrielle Bull-General Electric (Societe Anonyme). Memory elements comprising a plane anisotropic thin magnetic film having isotropic magnetic layers providing stable domain edges. 3,483,533, 12-9-69, Cl. 340-174.

Feistel, Karl Heinz, to Goltermann, Wandel U. Systems of series-connected band pass filter networks. 3,443,250, 5-6-69, Cl. 333-76.

Feiter, Joseph J., Jr.: *See—*
Foglia, Andrew J.; and Feiter, Joseph J., Jr.,3,440,208.

Feje, Jules A.: *See—*
Cabion, Paul J.; and Feje, Jules A.,3,434,147.

Fejes, Peter, to Allmanna Svenska Elektriska Aktiebolaget. Means for purifying water. 3,437,207, 4-8-69, Cl. 210-287.

Fejko, Andrew. Combined ball game, gum dispenser and die. 3,476,391, 11-4-69, Cl. 273-124.

Fejmert, Erik Valdemar. Method and means for mixing a mass of concrete or other material. 3,480,260, 11-25-69, Cl. 259-147.

Fekete, Ernoe A.: *See—*
Reznick, David E.; and Fekete, Ernoe A.,3,469,809.

Fekete, Frank: *See—*
Baum, Melvin E.; Fekete, Frank; and Hatton, John A.,3,431,320.

Fekete, Frank; and Baum, Melvin E., to Koppers Company, Inc. Unsaturated polyester resin compositions having a thickening agent therein. 3,465,061, 9-2-69, Cl. 260-865.

Fekete, Stephen I.: *See—*
Peppin, Richard A.; and Fekete, Stephen I.,3,436,848.

Fekkes, Nanno: *See—*
Kohll, Charles F.; and Fekkes, Nanno,3,467,697.

Felber, Erhard Hermann Gustav: *See—*
Haberich, Wilhelm; and Felber, Erhard Hermann Gustav,3,462,299.

Felburn, John Phil. Cargo fixture for trailers. 3,481,627, 12-2-69, Cl. 280-179.

Feld, David: *See—*
Torgerson, Raymond L.; Feld, David; and O'Neill, William P.,3,484,959.

Feld, George J.: *See—*
Feld, Nellie Ancona; and Feld, George J.,3,425,143.
Feld, Nellie Ancona; and Feld, George J.,3,477,155.
Feld, Nellie Ancona; and Feld, George J.,3,486,668.

Feld, Goldie F. Can opening and sealing device. 3,438,542, 4-15-69, Cl. 220-54.

Feld, Manfred; Lieser, Herbert; Lincks, Hans; and Stockert, Helmut, to Entwicklungsring Sud GmbH. Ejection seat system. 3,446,463, 5-27-69, Cl. 244-121.

Feld, Nellie Ancona; and Feld, George J. Device for blocking, stretching and drying textile articles. 3,425,143, 2-4-69, Cl. 38-102.9

Feld, Nellie Ancona; and Feld, George J. Textile stretching and drying device. 3,477,155, 11-11-69, Cl. 38-102.9

Feld, Nellie Ancona; and Feld, George J. Device for stretching and drying textile articles. 3,486,668, 12-30-69, Cl. 223-69.

Feld, Raoul, to Laporte Titanium Limited. Carboxylic acid ester treated pigments. 3,436,239, 4-1-69, Cl. 106-300.

Feld, Raoul, to Laporte Titanium Limited. Inorganic pigments. 3,453,130, 7-1-69, Cl. 106-300.

Feldbrugge, Alonzo H.: *See—*
Pitchon, Esra; Feldbrugge, Alonzo H.; and Schulman, Marvin,3,482,987.

Feldges, Werner: *See—*
Plum, Hans; Feldges, Werner; Enger, Helmut; and Grefen, Hans,3,431,595.

Feldhege, Heinrich, to Lamprecht, Adolf K.G. Drainage and overflow device for connection to a basin. 3,431,566, 3-11-69, Cl. 4-198.

Feldhoff, Heinrich; Becker, Klaus; and Schlereth, Georg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Multipart casing for an electrical machine. 3,476,963, 11-4-69, Cl. 310-89.

Feldkirchner, Harlan L.; Linden, Henry R.; Khan, Amanullah R.; and Todesca, Flaminio, to Institute of Gas Technology. Steam-reforming of hydrocarbons for production of high methane content gas. 3,433,610, 3-18-69, Cl. 48-214.

Feldman, Alfred P. Two-dimensional structure encoding typewriter. 3,476,311, 11-4-69, Cl. 234-17.

Feldman, Charles, to Melpar, Inc. Thin film circuit element of amphorous semiconductor exhibiting a voltage variable non-linear resistance with symmetrical characteristics. 3,470,426, 9-30-69, Cl. 317-234.

Feldman, David: *See—*
Dow, Robert J.; Feldman, David; Lee, Samuel C.; Mitchell, Edward S., Jr.; and Wyndrum, Ralph W., Jr.,3,460,026.

Feldman, De Neal J.; Feldman, Jack J.; and Moscowitz, Milton J., to Economy Linen & Towel Service, Inc. Steam and air garment finisher. 3,475,828, 11-4-69, Cl. 34-22.

Feldman, Hans-Helmut; and Sanetra, Erwin, to Licentia Patent-Verwaltungs-G.m.b.H. Hybrid machine control system. 3,483,362, 12-9-69, Cl. 235-150.5
Feldman, Jack J.: *See—*
Feldman, De Neal J.; Feldman, Jack J.; and Moscowitz, Milton J.,3,475,828.
Feldman, Jacob R.; Fischer, Valentine J.; Berkowitz, Lewis M.; and Hammell, Matthew, to General Foods Corporation. Beverage product and process. 3,441,417, 4-29-69, Cl. 99-79.
Feldman, Julian; Saffer, Bernard A.; and Frampton, Orville D., to National Distillers and Chemical Corporation. Octatriene process. 3,480,685, 11-25-69, Cl. 260-677.
Feldman, Lawrence. Electrically powered timepiece. 3,473,318, 10-21-69, Cl. 58-41.
Feldman, Rubin, to Thermal Systems, Inc., mesne. Differential ablation measurement of heat shields using a plurality of radioactive materials. 3,461,289, 8-12-69, Cl. 250-83.
Feldman, Samuel I.; and DeCuir, Talford S., to Lummus Company, The. Rigging apparatus. 3,425,738, 2-4-69, Cl. 294-74.
Feldman, Samuel: *See—*
Topiel, Pincus; and Feldman, Samuel,3,465,366.
Feldman, Theodore: *See—*
Cox, John E.; Hasser, George L.; Boehm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F.,3,467,780.
Feldman, Theodore, to International Telephone and Telegraph Corporation. Electrically controlled matrix. 3,470,535, 9-30-69, Cl. 340-166.
Feldmann, Hans-Helmut, to Licentia Patent-Verwaltungs-G.m.b.H. Semiconductor circuit assembly. 3,480,837, 11-25-69, Cl. 317-100.
Feldmann, Herman F., to Institute of Gas Technology. Free fall shale hydrogasification. 3,421,868, 1-14-69, Cl. 48-197.
Feldmann, Klaus; Frank, Klaus; Gerhardt, Wilfried; Schmidt, Paul; and Kandler, Joachim, to Knapsack Aktiengesellschaft. Process for the manufacture of pulverulent ferromanganese. 3,471,595, 10-7-69, Cl. 264-12.
Feldmuhle Aktiengesellschaft: *See—*
Graff, Peter; and Bottcher, Peter, 3,434,525.
Schubert, Alfred; and Eichas, Heinz, 3,432,146.
Schwerdt, Hans, 3,470,064.
Feldstein, Marvin A. Windshield wiper device. 3,466,694, 9-16-69, Cl. 15-250.35
Feldt, Ralph L.; Montle, John F.; and Skiles, Ernest W., to Carboline Company. Weldable primer. 3,469,071, 9-23-69, Cl. 219-137.
Feldtkeller, Ernst, to Siemens Aktiengesellschaft. Method and apparatus for eliminating interference output signals in a memory storer. 3,448,439, 6-3-69, Cl. 340-174.
Feldtkeller, Ernst; and Stein, Karl-Ulrich, to Siemens Aktiengesellschaft. Memory element with stacked magnetic layers. 3,459,517, 8-5-69, Cl. 29-191.
Feles, Nick; and Quinting, Rudi F., to General Motors Corporation. Seat belt anchorage. 3,437,349, 4-8-69, Cl. 280-150.
Felgner, Karl, to Hottinger Baldwin Mesztechnik G.m.b.H. Indicating device. 3,434,453, 3-25-69, Cl. 116-129.
Felici, Noel J.; and Briere, Georges B. High voltage liquid purifier and method. 3,444,062, 5-13-69, Cl. 204-180.
Felici, Noel Joseph; and Briere, Georges Bernard. Electrical apparatus utilizing a dielectric medium. 3,443,856, 5-13-69, Cl. 350-150.
Feliks, James J.: *See—*
Egleston, Harry B.; and Feliks, James J.,3,474,951.
Felix, Dorothea: *See—*
Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max,3,470,241.
Felix, Ernst, to Zellweger, Ltd. Method of, and an apparatus for, obtaining measurements which correspond to the substance cross-section of textile material. 3,435,673, 4-1-69, Cl. 73-160.
Felix, Ernst, to Zellweger Ltd. Apparatus for photo-electric detection of double threads. 3,461,299, 8-12-69, Cl. 250-219.
Felix, Ernst, to Zellweger Ltd. Apparatus and method for avoiding unnecessary cuts by electronic yarn cleaners. 3,476,329, 11-4-69, Cl. 242-36.
Felix, Paul C.; and Johnson, Allen A., to Grove Manufacturing Company. Spreader for grain bins. 3,469,718, 9-30-69, Cl. 214-17.
Felix, Pierre, to Societe Rhodiaceta. Manufacture of threads, cords, ropes and like articles. 3,422,616, 1-21-69, Cl. 57-157.
Fell, James A.: *See—*
Leonard, Daniel C.; and Fell, James A.,3,484,008.
Fellberg, Hans W. Bowling ball with thumb releasing device. 3,462,146, 8-19-69, Cl. 273-63.
Fellegi, Jan: *See—*
Zemanek, Rudolf; Fellegi, Jan; and Janci, Jan,3,425,545.
Fellenzer, Archie D., Jr. Triplex cable spreading tool. 3,425,114, 2-4-69, Cl. 29-203.
Feller, John R.: *See—*
Wright, Achibald N.; and Feller, John R.,3,480,553.
Feller, Otto; and Vossieck, Paul, to Goetzewerke Friedrich Goetze AG. Flexible shaft coupling. 3,425,240, 2-4-69, Cl. 64-11.
Feller, Otto; and Vossieck, Paul, to Goetzewerke Friedrich Goetze A.G. Hub spider for a flexible shaft coupling. 3,470,710, 10-7-69, Cl. 64-11.
Feller, Thomas R., to Allis-Chalmers Manufacturing Company. Device for washing centrifugal compressor. 3,434,654, 3-25-69, Cl. 230-134.
Fellers, David A., to United States of America, Agriculture. Preparation of protein concentrates by extracting gluten and water-soluble proteins from a slurry of wheat flour, water, and edible glyceride oil. 3,463,770, 8-26-69, Cl. 260-112.
Felletschin, Gunter: *See—*
Reese, Gunter; and Felletschin, Gunter,3,429,673.
Fellig, Josef; and Rachlin, Albert Israel, to Hoffmann-La Roche, Inc. 3,4-Methylenedioxyphenyl-3-halo-2-propynyl ethers. 3,423,428, 1-21-69, Cl. 260-340.5
Fellner & Ziegler G.m.b.H.: *See—*
Koecher, Walter, 3,433,186.
Fellner, Phillip J., to Sturtevant Industries, Inc. Material dispenser. 3,453,915, 7-8-69, Cl. 83-155.
Fellows Gear Shaper Company, The: *See—*
Noble, Paul H., 3,472,125.
Fellows, Harrison E. Pneumatic impact-molding machine with shuttle hopper. 3,433,285, 3-18-69, Cl. 164-193.
Fellows, Thomas George, to National Research Development Corporation. Toroidal race transmission units. 3,440,895, 4-29-69, Cl. 74-200.
Felmlee, William J., to Dow Chemical Company, The. Rotary multiport sampling valve. 3,443,592, 5-13-69, Cl. 137-625.11
Felsenheld, Robert A.; Hoffman, Murray; and Perrotti, Emmanuel J., to International Telephone and Telegraph Corporation. Phase shifter having different length conductors inserted into circuit by reed relays. 3,471,808, 10-7-69, Cl. 333-31.
Felsenstein, Lee: *See—*
Westheimer, Gerald; and Felsenstein, Lee,3,453,437.
Felsenthal Instruments, Inc.: *See—*
Kaup, John J., 3,461,551.
Felsenthal, Martin; Ferrell, Howard H.; and Matthews, Robert R., to Continental Oil Company. Pressure pulsing oil production process. 3,480,081, 11-25-69, Cl. 166-263.
Felsner, Franz; and Heitmann, Albert. Curtain runner. 3,449,790, 6-17-69, Cl. 16-93.
Felson, Ronald. Capsule for the study and treatment of the digestive tract. 3,485,235, 12-23-69, Cl. 128-2.
Felstehausen, Eugene F., to FMC Corporation. Counter for food molding machine. 3,424,294, 1-28-69, Cl. 198-35.
Felstehausen, Eugene F., to FMC Corporation. Mechanism for adjusting pockets in food molding machine. 3,452,389, 7-1-69, Cl. 17-32.
Felstehausen, Eugene F., to FMC Corporation. Food molding machine. 3,460,191, 8-12-69, Cl. 17-32.
Felstehausen, Eugene F., to FMC Corporation. Food molding machine. 3,461,483, 8-19-69, Cl. 17-32.
Felstehausen, Eugene F., to FMC Corporation. Mechanism for mounting rotary member in food processing machinery. 3,462,178, 8-19-69, Cl. 287-52.07
Felt, Adolph E., to Smith, A. O., Corporation. Locking lance tab pre-assembly of box-section frame member. 3,420,032, 1-7-69, Cl. 52-731.
Felt Products Mfg. Co: *See—*
Colwell, Otha Leroy, 3,432,177.
Felten & Guilleaume Carlswerk Aktiengesellschaft: *See—*
Hahne, Karl Heinz, 3,433,883.
Felten & Guilleaume Fermeldeanlagen G.m.b.H.: *See—*
Kotter, Helmut, 3,470,497.
Felten & Guilleaume Fernmeldeanlagen G.m.b.H.: *See—*
Hecht, Georg; and Sacher, Karl, 3,466,455.
Felton, Bruce C.: *See—*
Baxter, Duane W.; Felton, Bruce C.; Hill, Harold W.; and Hoffman, Harry S., Jr.,3,428,953.
Felton, Lewis P.: *See—*
Roberts, Sanford B.; and Felton, Lewis P.,3,469,439.
Felts, Robert. Spark hardening method and apparatus. 3,459,917, 8-5-69, Cl. 219-76.
Felts, Wallace M., to Fruehauf Corporation. Extended hopper assembly with ejector plate. 3,472,399, 10-14-69, Cl. 214-41.
Felty, Paul John, Jr.; and Rosengren, Herbert, to AMP Incorporated. Package facilitating assembly of connector elements onto cable. 3,443,683, 5-13-69, Cl. 206-56.
Felty, Richard D.: *See—*
Lowman, Walker B.; and Felty, Richard D.,3,440,421.
Femco, Inc.: *See—*
Vitt, Leonard P.; and Kendig, Robert M., 3,461,280.
Femia, Joseph E., to United States of America, Army. Delay action device. 3,466,081, 9-9-69, Cl. 294-83.
Fenchel, Jack Le Roy. Unloader for barges and the like. 3,429,461, 2-25-69, Cl. 214-12.
Fend, Frederick A., to Xerox Corporation. Font indicator. 3,476,473, 11-4-69, Cl. 353-28.
Fend, Fritz, to Fichtel & Sachs A.G. Device for removing branches from the trunk of a tree. 3,454,058, 7-8-69, Cl. 144-2.

Fend, Fritz, to Fichtel & Sachs A.G. Control arrangement for a branch lopping apparatus. 3,461,925, 8-19-69, Cl. 144-2.
Fendall Company: *See—*
Liautaud, Philip J.; Liautaud, John N.; and Amundsen, Paul D., 3,436,761.
Fender, Clarence L., to Columbia Broadcasting System, Inc. Guitar and adjustable mute therefor. 3,427,916, 2-18-69, Cl. 84-267.
Fender, Norman N., to Universal American Corporation, (formerly Robfre Manufacturing Corporation). Mechanism control. 3,443,450, 5-13-69, Cl. 74-481.
Fender, Norman N., to Universal American Corporation, mesne. Parking brake actuator and control mechanism. 3,459,065, 8-5-69, Cl. 74-529.
Fender, Tracy T. Method and apparatus for forming sectional spiral flights. 3,485,116, 12-23-69, Cl. 76-2.
Fendler, Lawrence B.; and Auer, William F., to Comar Electric Company. Stepping motor. 3,486,048, 12-23-69, Cl. 310-24.
Fenerli, Ligor Gregory, to Spaghetti Factory, Inc. Throw away spaghetti fork. 3,481,037, 12-2-69, Cl. 30-147.
Fenerty, Michael J.; and Somers, Arthur V., to General Motors Corporation. Method of manufacturing ceramics. 3,442,668, 5-6-69, Cl. 106-39.
Feng, Kuo Kang: *See—*
Boylan, David R.; and Feng, Kuo Kang,3,427,124.
Fengler, Harald: *See—*
Koehler, Roland; Birk, Rudolf; Frick, Hans Dieter; Fengler, Harald; and Geyken, Erwin,3,438,140.
Fenichel, Ricard L.: *See—*
Grant, Norman H.; Alburn, Harvey E.; and Fenichel, Ricard L.,3,481,917.
Fenichel, Richard L.; and Alburn, Harvey E., to American Home Products Corporation. Methods of treating hyperinsulinism. 3,475,534, 10-28-69, Cl. 424-177.
Fenix & Scisson, Inc.: *See—*
Cobbs, James H., 3,442,330.
Dellinger, Thomas B.; and Cobbs, James H., 3,474,866.
Geary, Daniel; McKewon, Thomas E.; Harris, Richard S.; and Bolen, Herbert L., 3,460,258.
Howard, Clarence E., 3,443,648.
Fenley, Milton J., Jr., to Dow Chemical Company, The. Metal removing torch tip. 3,455,514, 7-15-69, Cl. 239-419.
Fenley, Thomas D. Total energy system. 3,424,916, 1-28-69, Cl. 290-40.
Fenley, Thomas D. Static inverter. 3,440,514, 4-22-69, Cl. 320-6.
Fenn, George C. Automatic apparatus for cleaning keg fittings of tapping systems. 3,482,583, 12-9-69, Cl. 134-43.
Fenn, George S.: *See—*
Cameron, John F.; and Fenn, George S.,3,484,751.
Fenn, John B. Method and apparatus for separation of components from gaseous streams. 3,465,500, 9-9-69, Cl. 55-17.
Fenn, Warren T.; Schott, Eugene A.; and Tschudy, Donald B., to Goodyear Aerospace Corporation. Tethering system for an elongated lighter-than- air balloon. 3,448,864, 6-10-69, Cl. 212-71.
Fenne, Ivor: *See—*
Glikin, Paul Edgar; and Fenne, Ivor,3,439,624.
Fennell, Alfred H.: *See—*
Zwiacher, Wayne E.; Kaser, Louis D.; Johnson, Maurice V., Jr.; Fennell, Alfred H.; and Riddington, Fred W.,3,465,495.
Fennell, Louis V. Truck spare tire lock. 3,431,756, 3-11-69, Cl. 70-259.
Fenner, Erich: *See—*
Brauer, Horst; Fenner, Erich; and Kuschke, Renate,3,441,517.
Fenner, Gunther E., to General Electric Company. Semiconductor junction laser with electronically displaceable and deflectable beam. 3,436,679, 4-1-69, Cl. 331-94.5
Fenner, Gunther E., to General Electric Company. Method of making glass-silicon composite bodies. 3,458,345, 7-29-69, Cl. 117-70.
Fenner, Gunther E., to General Electric Company. Pulse width modulated laser. 3,478,280, 11-11-69, Cl. 332-7.51
Fenner, Gunther E., to General Electric Company. Frequency control of semiconductive junction lasers by application of force. 3,482,189, 12-2-69, Cl. 332-7.51
Fenner, Gunther E., to General Electric Company. Laser logic and storage element. 3,483,529, 12-9-69, Cl. 340-173.
Fenner, Gunther E., to General Electric Company. Two-stage semiconductor coherent radiation source. 3,484,713, 12-16-69, Cl. 331-94.5
Fenner, Gunther E., to General Electric Company. High duty cycle laser device. 3,484,716, 12-16-69, Cl. 331-94.5
Fenner, Knolie L., Jr.: *See—*
Hunter, John J.; and Fenner, Knolie L., Jr.,3,422,856.
Fenner, Robert M.; and Hamilton, Donald E. Gymnastic climbing poles. 3,445,108, 5-20-69, Cl. 272-60.
Fennesz, Frank, Jr.: *See—*
Patrick, William E.; and Fennesz, Frank, Jr.,3,439,639.
Fenselau, Allan H.: *See—*
Moffatt, John G.; and Fenselau, Allan H.,3,476,794.
Fenske, Douglas H., and; and McMurray, Lynn L., to Dresser Industries, Inc. Flotation process. 3,425,548, 2-4-69, Cl. 209-166.
Fenske, Douglas H., to Dresser Industries, Inc., mesne. Recovery of clay and sand from an ore. 3,424,308, 1-28-69, Cl. 209-3.
Fenske, Ellsworth R.; and McLaughlin, James H., to Universal Oil Products Company. Hydrocarbon analyzer comprising stabilized cool flame generator with servo-positioned flame front. 3,463,613, 8-26-69, Cl. 23-230.
Fenster, Abraham S., to Pratt, Henry, Company. Indicator post valve with fail-safe feature. 3,452,766, 7-1-69, Cl. 137-68.
Fenstermaker, Lloyd H.; and Yu, Quin Shen, to United States Steel Corporation. Apparatus for manipulating disc-like members. 3,478,407, 11-18-69, Cl. 29-240.
Fenton, Donald M., to Union Oil Company of California. Preparation of 1-oxo-1,2,3,4-tetrahydronaphthalene and 1-hydroxy-1,2,3,4-tetrahydronaphthalene. 3,422,147, 1-14-69, Cl. 260-590.
Fenton, Donald M., to Union Oil Company of California. Method for preparing beta-allylaminopropionamides. 3,442,944, 5-6-69, Cl. 260-561.
Fenton, Donald M., to Union Oil Company of California. Oxidative carbonylation of aromatics. 3,480,669, 11-25-69, Cl. 260-515.
Fenton, Donald M., to Union Oil Company of California. Electrolytic preparation of esters of unsaturated acids. 3,481,845, 12-2-69, Cl. 204-59.
Fenton, Leonard; and Buonocore, Edward, to Cleveland Clinic Foundation, The. Apparatus for gastro-intestinal barium air contrast spraying. 3,470,869, 10-7-69, Cl. 128-2.
Fenton, Oscar D. Electronic test probe having means for switching from generating to amplifying function. 3,462,689, 8-19-69, Cl. 325-363.
Fenton, Robert E., to Ohio State University, The. Tactile display system for aiding an operator in vehicular control. 3,478,351, 11-11-69, Cl. 340-407.
Fenton, Roger Wakefield; and Cooper, George Leslie, to Marconi Company Limited, The. Gain and attenuation control circuit arrangements. 3,436,671, 4-1-69, Cl. 330-29.
Fenwal Incorporated: *See—*
Rockwell, Charles F., 3,428,130.
Rockwell, Charles F., 3,452,350.
Siwko, Eric I.; and Saunders, William F., 3,474,293.
Walbridge, Lyman, 3,441,356.
Walbridge, Lyman H., 3,443,752.
Fenwick, Jay G., to Streater Industries, Inc., mesne. Display fixturing. 3,471,978, 10-14-69, Cl. 52-36.
Fenwick, Jay G., to Streater Industries Inc. Tubular frame joint member. 3,472,539, 10-14-69, Cl. 287-54.
Fenwick Products Inc.: *See—*
Green, Milton J., 3,452,468.
Fenwick, Richard C., to Collins Radio Company. Capacitively tuned reflector antenna. 3,426,352, 2-4-69, Cl. 343-750.
Fenwick, Willis L.: *See—*
Bolling, Robert W., Jr.; Fenwick, Willis L.; and Reeves, Jerry H., III,3,473,723.
Fenyes, Joseph G. E.; and Kohn, Gustave K., to Chevron Research Company. 1-Halo-1-nitro disulfides. 3,429,931, 2-25-69, Cl. 260-608.
Fenyes, Joseph G. E.: *See—*
Kohn, Gustave K.; and Fenyes, Joseph G. E.,3,468,905.
Kohn, Gustave K.; and Fenyes, Joseph G. E.,3,479,413.
Look, Melvin; Padgett, Weldon M., II; Hyman, Julius; Fenyes, Joseph G. E.; and Lee, Herbert P. C.,3,480,646.
Feraday, Melville A., to Atomic Energy of Canada Limited. Nuclear reactor fuel element. 3,442,761, 5-6-69, Cl. 176-67.
Ferag, Fehr & Reist AG: *See—*
Reist, Walter, 3,446,498.
Ferchland, Harold W.: *See—*
De Hart, Arnold O.; Ferchland, Harold W.; and Lenz, Robert G.,3,475,826.
Ferchland, Harold W., to General Motors Corporation. Finishing tool. 3,460,292, 8-12-69, Cl. 51-34.
Ferchland, Harold W.; and Wallace, Augustine J., Jr., to General Motors Corporation. Drafting styli and material therefor. 3,435,528, 4-1-69, Cl. 33-18.
Ferd. Ruesch, Maschinenfabrik: *See—*
Ebneter, Markus, 3,430,881.
Ferdinand, Irwin J.; and Handler, Milton E., to Hirsh Company. Knockdown steel shelving. 3,479,974, 11-25-69, Cl. 108-144.
Ferdinand, Irwin J.; and Handler, Milton J., to Hirsch Company. Lightweight steel shelving. 3,479,975, 11-25-69, Cl. 108-144.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., to Hirsh, S. A., Manufacturing Company. Knockdown steel shelving and cabinet hardware therefor. 3,438,688, 4-15-69, Cl. 312-295.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., to Hirsh Company. Steel shelving. 3,480,155, 11-25-69, Cl. 211-148.
Ferdinand, Irwin J.; and Lopatka, Dale R., to Hirsh, S. A., Manufacturing Company. Knockdown steel shelving unit and corner fastening means. 3,438,344, 4-15-69, Cl. 108-110.
Ferdinand Lentjes Damplekessel-und Maschinenbau: *See—*
Munster, Josef; Wellensiek, Gerd; and Linke, Gunter, 3,478,725.
Ferdon, Gilbert Douglas; and Henschen, Homer Ernst, to AMP Incorporated. Connector keying device. 3,474,395, 10-21-69, Cl. 339-186.
Ferentinos, Dan, to Lionel Corporation, The. Raceway track. 3,445,063, 5-20-69, Cl. 238-10.

Fergason, Rector C., to Allis-Chalmers Manufacturing Company. Clutch enabling simultaneous control of two driven shafts or selective control of either of said shafts. 3,439,788, 4-22-69, Cl. 192-48.6

Fergason, Rector C., to Allis-Chalmers Manufacturing Company. Arrangement for reducing backlash and wear between gears. 3,449,976, 6-17-69, Cl. 74-409.

Fergason, Rector C., to Allis-Chalmers Manufacturing Company. Cotton harvester. 3,464,194, 9-2-69, Cl. 56-47.

Fergason, Rector C., to Allis-Chalmers Manufacturing Company. Stalk crowder attachment for cotton harvester. 3,465,506, 9-9-69, Cl. 56-44.

Fergason, Rector C., to Allis-Chalmers Manufacturing Company. Lubrication deflector for durm assembly of cotton harvester. 3,473,307, 10-21-69, Cl. 56-44.

Fergle, Donald J., to Eaton Yale & Towne, Inc. Control for vehicle steering column. 3,464,284, 9-2-69, Cl. 74-492.

Fergle, Donald J., to Eaton Yale & Towne, Inc. Apparatus for protecting a vehicle operator. 3,481,626, 12-2-69, Cl. 280-150.

Ferguson, Albert Clinton. Metal umbrella. 3,454,022, 7-8-69, Cl. 135-20.

Ferguson, Bobby L.: *See—*
Todd, William L.; and Ferguson, Bobby L.,3,437,356.

Ferguson, Charles W.: *See—*
Rahrig, Donald D.; and Ferguson, Charles W.,3,448,547.

Ferguson, Charles W.; and Welker, Robert H., to Libbey-Owens-Ford Glass Company. Drilling machines. 3,461,615, 8-19-69, Cl. 51-81.

Ferguson, David E. Apparatus and method for decoding operation codes in digital computers. 3,422,404, 1-14-69, Cl. 340-172.5

Ferguson, Donald C.: *See—*
Barchi, Henry J.; Ferguson, Donald C.; and Smith, Merrill M.,3,465,384.

Ferguson, Ellis H., to Wyman-Gordon Company. Knockout for forge machine. 3,478,566, 11-18-69, Cl. 72-427.

Ferguson, Gerald D.: *See—*
Hudson, John W.; and Ferguson, Gerald D.,3,442,637.
Hudson, John W.; and Ferguson, Gerald D.,3,451,800.

Ferguson, Harold W., to Stanley Works, The. Piston type operator with power checking. 3,479,924, 11-25-69, Cl. 91-165.

Ferguson, Harry, Auto Research, Inc.: *See—*
Walker, Frederick J., 3,449,019.

Ferguson, Harry, Research Limited: *See—*
Webb, Oswald, 3,477,302.

Ferguson, Hugo S., to Duffers Associates, Inc. Power monitor, particularly for welders, based on quarter-squares computation procedure. 3,445,768, 5-20-69, Cl. 324-142.

Ferguson, Ian; Hall, Robert Arthur; and Park, Joseph, to Imperial Chemical Industries Limited. Process for the preparation of vinyl polymer impregnated nitrocellulose. 3,458,458, 7-29-69, Cl. 260-17.

Ferguson, James D., to Petro Well Service, Inc. Well cleaning with mixed liquefied propane and butane solvent. 3,477,513, 11-11-69, Cl. 166-304.

Ferguson, James V.: *See—*
Reid, Laurie M.; Ferguson, James V.; and McDurmont, Walter R.,3,466,844.

Ferguson, John F., to Geigy Chemical Corporation. Method of reducing the cholinesterase activity of phosphoric acid esters. 3,432,503, 3-11-69, Cl. 260-251.

Ferguson, Leslie A.; and Williams, George M., to Uniroyal, Inc. Method and apparatus for coating tubular fabric. 3,434,860, 3-25-69, Cl. 117-7.

Ferguson Manufacturing Company: *See—*
Lilley, Melvin R., 3,454,100.

Ferguson, Millard A., to General Motors Corporation. Method of machining and hardening workpieces with electrical discharge machining apparatus. 3,459,916, 8-5-69, Cl. 219-69.

Ferguson, Millard A., to General Motors Corporation. Power supply for both harding and electrical discharge machining workpieces. 3,474,214, 10-21-69, Cl. 219-69.

Ferguson, Otis B., to Recovery Systems Research, Inc. Parachute. 3,420,478, 1-7-69, Cl. 244-142.

Ferguson, Otis B., to Recovery Systems Research, Inc. Rereefing parachute assembly and system. 3,434,680, 3-25-69, Cl. 244-142.

Ferguson Radio Corporation Limited: *See—*
Westwood, David John Sidney, 3,477,011.

Ferguson, Richard, to Terleco, Inc. Indexing method and means for tubular sawing. 3,467,153, 9-16-69, Cl. 143-85.

Ferguson, Robert B.; and Westover, Jack D., to Pillsbury Company, The. Fungal polysaccharide composition and method for making same. 3,436,311, 4-1-69, Cl. 195-52.

Ferguson, Robert B.: *See—*
Westover, Jack D.; and Ferguson, Robert B.,3,436,346.

Ferguson, Roger W.: *See—*
Chrastil, Alois; Ferguson, Roger W.; and Williams, Kenneth R.,3,484,323.

Ferguson, Ted J. Spacer for garment hangers. 3,482,746, 12-9-69, Cl. 223-85.

Ferieu, Gilbert Marcel. Frequency selective filters using passive impedances and two-terminal active networks. 3,471,797, 10-7-69, Cl. 330-207.

Ferik, Michael: *See—*
Brown, Neuberne H., Jr.; Butler, David P.; Carter, Jack M.; Ferik, Michael; and Ogle, Paul E.,3,427,997.

Ferington, Thomas E., to Grace, W. R., & Co. Adhesive additives for curable liquid resins. 3,479,317, 11-18-69, Cl. 260-37.

Ferland, Jean-Marie; and Lefebvre, Yvon, to American Home Products Corporation. 14β-Hydroxy-16β,21-oxidonorcholan-23-oic acid lactams and derivatives. 3,451,994, 6-24-69, Cl. 260-210.5

Ferland, Jean-Marie; and Lefebvre, Yvon, to American Home Products Corporation. 14,21-Oxidonorcholan-23-oic acid lactams and derivatives. 3,462,413, 8-19-69, Cl. 260-210.5

Ferland, Jean Marie: *See—*
Lefebvre, Yvon; and Ferland, Jean Marie,3,431,258.
Lefebvre, Yvon; and Ferland, Jean Marie,3,436,390.

Ferlazzo, Natale: *See—*
Caporali, Giorgio; Barberis, Giuseppe; Ferlazzo, Natale; and Penzo, Vittorio,3,462,477.
Caporali, Giorgio; Ferlazzo, Natale; Giordano, Nicola; and Faletti, Franco,3,452,077.
Cavaterra, Enrico; and Ferlazzo, Natale,3,446,834.
Cavaterra, Enrico; and Ferlazzo, Natale,3,476,810.
Cavaterra, Enrico; Ferlazzo, Natale; and Petrini, Guido,3,446,833.

Ferlemann, Fritz. Supporting frame for movable cable belt conveyors. 3,471,004, 10-7-69, Cl. 198-192.

Ferm, Richard L.; and Boynton, Russell F., to Chevron Research Company. Bituminous emulsions. 3,445,258, 5-20-69, Cl. 106-277.

Ferman, David H. Telescopic fishing rod. 3,445,952, 5-27-69, Cl. 43-18.

Ferment, George R.: *See—*
Mantell, Charles L.; and Ferment, George R.,3,455,799.

Fernald, Charles Henry; and Poltonavage, Edward Michael, to AMP Incorporated. Electrical plug connector. 3,453,578, 7-1-69, Cl. 337-195.

Fernald, Henry G.: *See—*
Davis, John K.; Fernald, Henry G.; and Rayner, Arline W.,3,434,781.

Fernald, Herbert B.; Gall, William; and Kresge, Alfred N., to Gulf Research & Development Company. Method for measuring extent of conversion in a chemical process. 3,477,819, 11-11-69, Cl. 23-232.

Fernald, Herbert B.; Gall, William; and Swift, Harold E., to Gulf Research & Development Company. Method for converting ethylene to alpha-olefins in the presence of phenothiazine. 3,441,631, 4-29-69, Cl. 260-683.15

Fernald, Herbert B.; Gall, William; and Swift, Harold E., to Gulf Research & Development Company. Method for converting ethylene to alpha olefins in the presence of an organic sulfide. 3,444,263, 5-13-69, Cl. 260-683.15

Fernald, Herbert B.; Gall, William; and Swift, Harold E., to Gulf Research & Development Company. Method for converting ethylene to alpha olefins in the presence of benzothiazole. 3,444,264, 5-13-69, Cl. 260-683.15

Fernald, Herbert B.; Gall, William; and Swift, Harold E., to Gulf Research & Development Company. Method for converting ethylene to alpha olefins in the presence of diphenylamine. 3,478,124, 11-11-69, Cl. 260-683.15

Fernald, Herbert B.; Gwynn, Bernard H.; and Kresge, Alfred N., to Gulf Research & Development Company. Polymerization of ethylene to normal alpha olefins with a trialkylaluminum catalyst in a tubular reactor. 3,482,000, 12-2-69, Cl. 260-683.15

Fernald, Herbert B.; and Lynch, Eugene F., to Gulf Research & Development Company. Removal of aluminum from an alpha olefin product stream. 3,477,813, 11-11-69, Cl. 23-143.

Fernandes, John H., to Combustion Engineering, Inc. Incinerator-gas turbine cycle. 3,473,331, 10-21-69, Cl. 60-59.

Fernandes, Joseph, to United Aircraft Products, Inc. Vapor cycle refrigeration system. 3,440,833, 4-29-69, Cl. 62-196.

Fernandez, Arthur; and Wurster, David H. Catch assembly for doors and the like. 3,466,075, 9-9-69, Cl. 292-19.

Fernandez, Cesar Alvarez. Continuous and constant variable-ratio transmission mechanism. 3,436,970, 4-8-69, Cl. 74-393.

Fernandez, Helene E., to Mattel, Inc. Circus game construction. 3,445,114, 5-20-69, Cl. 273-101.

Fernandez, John. Conveyor systems. 3,451,526, 6-24-69, Cl. 198-75.

Fernandez, Jose Salvado. Cigarette with cooling and smoke condensing means and method of making it. 3,426,761, 2-11-69, Cl. 131-9.

Ferner, Jack D.; and Higgins, Irwin R., to Chemical Separations Corporation. Process for pickling metal and processing pickling liquors. 3,470,022, 9-30-69, Cl. 134-3.

Ferneyhough, Henry H. Auxiliary table and work holding means for power saws and the like. 3,451,447, 6-24-69, Cl. 143-51.

Fernholz, Hans; and Schmidt, Hans-Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of palladium (II) halides from metallic palladium. 3,427,123, 2-11-69, Cl. 23-87.

Fernholz, Hans; and Schmidt, Hans-Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of anhydrides of sorbic acid. 3,468,948, 9-23-69, Cl. 260-549.
Fernlund, Ingemar, to SKF Industries Inc. Dynamic/static sliding bearing. 3,447,841, 6-3-69, Cl. 308-9.
Fernseh G.m.b.H.: *See*—
Bachmann, Horst; Schneider, Hans-Dieter; and Sennhenn, Emil, 3,435,136.
Dillenburger, Wolfgang, 3,424,938.
Gunther, Johannes, 3,420,951.
Hemmerling, Manfred; and Howaldt, Jurgen, 3,427,398.
Horstmann, Winfried; and Krause, Gerhard, 3,454,719.
Legler, Ernst, 3,473,139.
Michels, Friedrich; and Zschau, Horst, 3,459,889.
Ort, Werner; and Frank, Kurt, 3,474,511.
Prochnow, Rudolf, 3,429,992.
Schneider, Hans-Dieter, 3,443,147.
Sennhenn, Emil, 3,430,117.
Sennhenn, Emil, 3,431,351.
Sennhenn, Emil, 3,435,359.
Feroy, Arne. Variable pitch propeller system. 3,437,150, 4-8-69, Cl. 170-160.32
Ferrando, Juan V., to Vilarrubis & Sagué S.A. Pneumatic rifle with adjustable valve. 3,420,220, 1-7-69, Cl. 124-11.
Ferrania, S.p.A.: *See*—
Coraluppi, Enzo; and Magagnoli, Remo, 3,486,894.
Franco, Simone, 3,429,839.
Gandino, Mario; Merli, Paolo; and Turilli, Oreste, 3,443,955.
Magagnoli, Remo; and Coraluppi, Enzo, 3,446,622.
Mariani, Brunello; Guizzi, Alberto; and Tisselli, Eugenio, 3,476,564.
Ferrante, Gerald R., to Shell Oil Company. Process for treating fibrous material with aldehyde condensation products and the resulting material. 3,443,987, 5-13-69, Cl. 117-139.4
Ferranti, Limited: *See*—
Angus, Ernest Thomas; Arthur, Hugh MacDonald; Montgomery, John Young Condie; Walker, Donald Ferguson; and Good, Richard Samuel Jonathan, 3,457,480.
Briggs, Thomas Stanley; and Brown, Kenneth Robson, 3,435,742.
Brown, Kenneth Robson; and McDermott, Bernard Colin, 3,468,019.
Clark, Wilfred Neville; Conner, Charles Irvine; and Ogden, Harry, 3,471,703.
Conner, Charles Irvine; Howard, Bernard Victor; Walker, Donald Ferguson; and Wood, Godfrey Allen, 3,424,059.
Conner, Charles Irvine; and Killiner, Arthur Thomas, 3,449,542.
Coulter, Albert George; and English, Brian Box, 3,484,550.
Gibbons, William Frederick; and Watkin, Kenneth, 3,471,630.
Good, Richard Samuel Jonathan; Kerr, Andrew Guy; Montgomery, John Young Condie; and Walker, Donald Ferguson, 3,453,511.
Gribble, Maurice Woolmer; and Whitehead, Donald Gill, 3,471,835.
Laidlaw, Neil Rutherford, 3,431,426.
Lowery, Christopher Haydn; and Wilson, Geoffrey Charles, 3,427,181.
McLaren, Ronald Robert, 3,478,197.
Seacy, Eric George; and Whitehall, Francis Brian, 3,473,007.
Shepherd, Alexander Turnbull; and McLaren, Ronald Robert, 3,449,743.
Sitton, Robert Milo William, 3,486,114.
Thorp, William, 3,434,203.
Walker, George Sanderson; and McLaren, Ronald Robert, 3,436,753.
Wilkinson, Bernard H.; and Ogden, Harry, 3,463,720.
Williams, Raymond Anthony, 3,424,864.
Ferranti-Packard Electric Limited: *See*—
Hokkinen, Paul K., 3,428,233.
Ferranti-Packard Limited: *See*—
Winrow, Donald, 3,444,551.
Winrow, Donald; Longenecker, Bruce Cameron; and Reynolds, Charles Edward, 3,469,258.
Ferranto, Felix L.: *See*—
Broomhall, Gordon E.; and Ferranto, Felix L.,3,436,514.
Ferrara, Achille K. Vibratory finishing machine. 3,464,163, 9-2-69, Cl. 51-7.
Ferrara, Achille K., to Ultramatic Equipment Co. Balanced vibratory mechanism. 3,470,754, 10-7-69, Cl. 74-26.
Ferrara, Gianfranco; Del Fa', Clemente; Carta, Mario; and Ciccu, Raimondo. Pneumatic conduit type electrostatic separator. 3,476,243, 11-4-69, Cl. 209-129.
Ferrara, Italo, to Sincat-Societa Industriale Catanese S.p.A. Method of obtaining concentrated potassium hydroxide in a colorless condition. 3,436,178, 4-1-69, Cl. 23-184.
Ferrara, Peter B. Dry charge cigarette lighter. 3,464,776, 9-2-69, Cl. 431-124.
Ferrara, Peter B. Displacement timing device. 3,471,659, 10-7-69, Cl. 200-33.
Ferrara, Peter J., to Keep Chemical Company. Acid-modified starches and flours and method of making the same. 3,479,220, 11-18-69, Cl. 127-38.
Ferrara, Rudolph A., to General Motors Corporation. Closure latch. 3,467,425, 9-16-69, Cl. 292-81.
Ferrara, Rudolph A.: *See*—
Cruz, Jose C.; and Ferrara, Rudolph A.,3,455,602.
Ferrari, Agostino; Callegari, Luciano; and Rivetta, Gianfranco, to Societa Italiana Telecommunicazioni Siemens S.p.A. Foldable telephone set. 3,476,886, 11-4-69, Cl. 179-103.
Ferrari, Armando Gene, to Western Electric Company, Incorporated. Manufacturing a balloon-type helical insulator. 3,435,105, 3-25-69, Cl. 264-95.
Ferrari, Arthur M. Lumber strip off-bearer and loader. 3,430,749, 3-4-69, Cl. 198-24.
Ferrari, Gianfranco; and Garberi, Angelo, to Montecatini Edison S.p.A. Process for the preparation of methanylic acid. 3,476,801, 11-4-69, Cl. 260-508.
Ferrari, Hugo V. Sleeve extension adapter. 3,434,611, 3-25-69, Cl. 214-653.
Ferrari, Leonard A., to Polaroid Corporation. High-voltage switching for three-color line-sequential color television. 3,452,245, 6-24-69, Cl. 315-30.
Ferrari, Omar T. Rotary internal combustion engine. 3,485,220, 12-23-69, Cl. 123-8.
Ferrari, Patrick T.: *See*—
Del Vecchio, George D.; and Ferrari, Patrick T.,3,457,405.
Ferrari, Roy W., to Triax Company, The. Warehouse system with inclined storage racks. 3,450,276, 6-17-69, Cl. 214-16.4
Ferrarini, Louis James; Homonoff, Harold J.; and Nelson, George R., to Dennison Manufacturing Company. Electrophotographic recording element with increased speed. 3,469,979, 9-30-69, Cl. 96-1.7
Ferraris, John T., to Consolidated Foods Corporation, mesne. Motor brush holder. 3,427,487, 2-11-69, Cl. 310-247.
Ferraro, Emanuel; Ferraro, Oliver; Ferraro, James; and Ferraro, Paul. Domestic hot water heater. 3,468,292, 9-23-69, Cl. 122-33.
Ferraro, Frank A.: *See*—
Dawidowicz, Jan; Ferraro, Frank A.; and Kuhnl, Leopold K.,3,466,746.
Dawidowicz, Jan; Kuhnl, Leopold K.; Bombero, Thomas F.; and Ferraro, Frank A.,3,456,342.
Ferraro, James: *See*—
Ferraro, Emanuel; Ferraro, Oliver; Ferraro, James; and Ferraro, Paul,3,468,292.
Ferraro, Oliver: *See*—
Ferraro, Emanuel; Ferraro, Oliver; Ferraro, James; and Ferraro, Paul,3,468,292.
Ferraro, Paul: *See*—
Ferraro, Emanuel; Ferraro, Oliver; Ferraro, James; and Ferraro, Paul,3,468,292.
Ferree, Herbert E., to Westinghouse Electric Corporation. Stacking module for flat package electrical devices. 3,447,118, 5-27-69, Cl. 338-21.
Ferree, Herbert E., to Westinghouse Electric Corporation. Multiple electrical contact assembly for compression bonded electrical devices. 3,448,352, 6-3-69, Cl. 317-235.
Ferree, Herbert E., to Westinghouse Electric Corporation. Cushioning thrust washer for application of uniform pressure to semiconductor irregular structures. 3,458,776, 7-29-69, Cl. 317-234.
Ferree, Herbert E.; and Doran, Raymond C., to Westinghouse Electric Corporation. Pressure electrical contact assembly for a semiconductor device. 3,450,962, 6-17-69, Cl. 317-235.
Ferree, Herbert E.: *See*—
Nowalk, Thomas P.; and Ferree, Herbert E.,3,437,887.
Steinmetz, John J., Jr.; Ferree, Herbert E.; and Nowalk, Thomas P.,3,463,976.
Ferree, Joseph A., Jr., to Allegheny Ludlum Steel Corporation. Free machining austenitic stainless steel. 3,460,939, 8-12-69, Cl. 75-125.
Ferreira, Fernand J.: *See*—
Davis, Jack W.; and Ferreira, Fernand J.,3,466,487.
Ferreira, Joseph J., to Moone, Frank, Shoe Co., Inc. Process of making a golf shoe. 3,452,378, 7-1-69, Cl. 12-142.
Ferrell, Howard H.: *See*—
Felsenthal, Martin; Ferrell, Howard H.; and Matthews, Robert R.,3,480,081.
Ferrell, Robert L.: *See*—
Schneider, Stanley; and Ferrell, Robert L.,3,470,333.
Ferrell, Wesley, to United States of America, Army, mesne. Antipersonnel land mine. 3,442,212, 5-6-69, Cl. 102-19.2
Ferrell, William E.: *See*—
Lewis, Richard L.; Ferrell, William E.; and Shutt, Paul B.,3,423,939.
Ferrentino, Antonio, to Pirelli S.p.A. Method and apparatus for bringing ashore the land ends of a plurality of submarine cables. 3,473,340, 10-21-69, Cl. 61-72.1
Ferrer, John J., to Hughes Aircraft Company. Display control system. 3,481,667, 12-2-69, Cl. 353-11.

Ferretti, August; and Germann, Richard W., to Massachusetts Institute of Technology. Electric heating element and its fabrication. 3,444,616, 5-20-69, Cl. 29-621.
Ferretti, Emmett J.: *See—*
Lasco, Ralph H.; and Ferretti, Emmett J.,3,470,208.
Ferretti, Giorgio: *See—*
Lombardini, Arnaldo; and Ferretti, Giorgio,3,439,663.
Ferri, Giampiero. Toy gun having a cylindrical magazine for accomo- dating a strip of cup-like caps. 3,478,458, 11-18-69, Cl. 42-57.
Ferri, Hans W., to Luwa Ltd. Floor cleaning of textile mills. 3,461,888, 8-19-69, Cl. 134-21.
Ferri, Hans, to Luwa AG. Pneumatic cleaning device for centrosymmetrical textile machines. 3,459,010, 8-5-69, Cl. 66-168.
Ferri, Johann Walter, to Luwa Ltd. Overhead cleaners. 3,481,116, 12-2-69, Cl. 55-288.
Ferri, Johann, to Luwa AG. Method and apparatus for monitoring the travel of a fiber strand at fly frames or the like. 3,420,048, 1-7-69, Cl. 57-81.
Ferriday, Donald Frank Everest; and Ferriday, Percival Victor, to Carburetion Units Limited. Internal combustion engines. 3,482,556, 12-9-69, Cl. 123-122.
Ferriday, Percival Victor: *See—*
Ferriday, Donald Frank Everest; and Ferriday, Percival Victor,3,482,556.
Ferrier, Herman Anthony, Jr.: *See—*
Bradley, Edward Franklin; and Ferrier, Herman Anthony, Jr.,3,435,314.
Ferrier, Jean, to Etablissements Jean Ferrier. Anti-sway device for use between a towing vehicle and trailer. 3,468,557, 9-23-69, Cl. 280-446.
Ferrier, Pierre Alfred; and Lesueur, Marc Charles Joseph, to Compagnie des Machines Bull (Societe anonyme). Selecting system for magnetic core stores. 3,425,044, 1-28-69, Cl. 340-174.
Ferrigan, Richard: *See—*
Cofrancesco, Anthony J.; and Ferrigan, Richard,3,468,938.
Ferrill, Homer E., to Dresser Industries, Inc. Pilot operated safety relief valve. 3,439,702, 4-22-69, Cl. 137-478.
Ferrin, Charles R., to Combustion Engineering, Inc. Chromatograph sample system. 3,475,950, 11-4-69, Cl. 73-23.1
Ferrington, Thomas E.: *See—*
Cote, James A.; Ferrington, Thomas E.; and Gregorian, Razmic S.,3,463,765.
Ferrini, Pier Giorgio: *See—*
Marxer, Adrian; and Ferrini, Pier Giorgio,3,455,918.
Ferriot, Joseph V., to Marx, Louis & Co., Inc. Toy figure. 3,470,650, 10-7-69, Cl. 46-173.
Ferris, Charles L.; Babecki, Robert J.; Braathen, Finn N.; and Sirovatka, George J., to Union Special Machine Company. Punch press with sliding bolster plate. 3,446,106, 5-27-69, Cl. 83-400.
Ferris, Cyrus Y., Jr., to Rock of Ages. Mausoleum. 3,455,072, 7-15-69, Cl. 52-134.
Ferris, DeLacy F., to United States of America, Army, mesne. Poppet valve device. 3,431,731, 3-11-69, Cl. 60-225.
Ferris, Donald L., to United Aircraft Corporation. Dual linear output and dual rotary output actuator with redundant drive. 3,438,447, 4-15-69, Cl. 170-160.12
Ferris, Donald L.; and Zisman, Bernard, to United Aircraft Corporation. Helicopter rotor stack bearing. 3,465,831, 9-9-69, Cl. 170-160.58
Ferris, Donald L.: *See—*
Vacca, Luigi; and Ferris, Donald L.,3,438,446.
Vacca, Luigi; and Ferris, Donald L.,3,484,175.
Ferris, Franklyn C., to Kelsey-Hayes Company. Apparatus for applying adhesives or the like to irregularly shaped objects. 3,465,712, 9-9-69, Cl. 118-8.
Ferris, Herbert C.: *See—*
Schenck, Robert C., Jr.; and Ferris, Herbert C.,3,459,213.
Ferris, Howard J.: *See—*
Ferris, Robert G.; Gillette, Allen K.; and Ferris, Howard J.,3,464,390.
Ferris, John T.: *See—*
Brumley, Corwin H.; and Ferris, John T.,3,455,625.
Ferris, Lockwood W., to National Lead Company, mesne. Selective recovery of salts from mixed salt solutions. 3,432,031, 3-11-69, Cl. 209-10.
Ferris, Lockwood W., to National Lead Company, mesne. Selective recovery of salts from mixed salt solutions. 3,432,258, 3-11-69, Cl. 23-91.
Ferris, Ray L.: *See—*
Aquino, Herman A.; Ferris, Ray L.; Mundinger, William A.; and Schuller, James J.,3,471,044.
Ferris, Robert G., to Starline, Inc. Silo and unloader. 3,426,924, 2-11-69, Cl. 214-17.
Ferris, Robert G., to Starline, Inc. Apparatus for snugging track suspended sliding doors. 3,481,078, 12-2-69, Cl. 49-209.
Ferris, Robert G.; and Gillette, Allen K., to Starline, Inc. Shuttle type animal feeder. 3,443,547, 5-13-69, Cl. 119-52.
Ferris, Robert G.; Gillette, Allen K.; and Ferris, Howard J., to Starline, Inc. Program controlled feeder shuttle feeder. 3,464,390, 9-2-69, Cl. 119-56.
Ferris, Robert L., to Baldwin, D. H., Company. Compact piano action. 3,472,113, 10-14-69, Cl. 84-237.
Ferro Corporation: *See—*
Bouvier, John J., 3,464,166.
Fry, Ralph, 3,425,601.
Fry, Ralph, 3,434,758.
Gobstein, Saul, 3,442,853.
Hathwar, Gopadi S., 3,454,515.
Hathwar, Gopadi S., 3,464,942.
Ferro Equipment Company: *See—*
Marley, Edward W., 3,451,172.
Ferro Manufacturing Corporation: *See—*
Littmann, Joseph C., 3,455,418.
Littmann, Joseph C., 3,462,717.
Littmann, Joseph C., 3,471,765.
Littmann, Joseph C., 3,471,969.
Littmann, Joseph C., 3,478,182.
Pickles, Joseph, 3,423,785.
Pickles, Joseph, 3,430,516.
Pickles, Joseph, 3,437,303.
Pickles, Joseph, 3,455,174.
Pickles, Joseph, 3,472,551.
Ferro, Patrick V.; and Ham, Anna B., to Dade Reagents, Inc. Method of estimating thymol turbidity employing polystyrene latex suspensions as standards. 3,436,187, 4-1-69, Cl. 23-230.
Ferron, James C.: *See—*
Voissem, Marvin C.; and Ferron, James C.,3,454,155.
Ferrotest G.m.b.H.: *See—*
Korf, Wilhelm Willy, 3,482,283.
Korf, Willy W., 3,447,277.
Ferroxcube Corporation of America: *See—*
Nelson, Herbert, 3,487,384.
Zola, Meyer J., 3,432,688.
Ferry, J. D., Co., Inc.: *See—*
Simpson, Thomas W., 3,436,229.
Ferry, James A., to National Electrostatics Corporation. Power transmission system for high voltage accelerators. 3,473,056, 10-14-69, Cl. 310-6.
Ferry, James A.: *See—*
Herb, Raymond G.; and Ferry, James A.,3,469,118.
Ferry, John W., to International Refrigeration Company, Inc. Liquid immersion type freezer. 3,435,630, 4-1-69, Cl. 62-282.
Ferryman, Kenneth K., Jr., to Essex Wire Corporation. Selector switch with adjustable camming means providing a programmed switch action. 3,461,256, 8-12-69, Cl. 200-61.88
Fersing, Leif E., to Textron Inc. Crushing roll dresser for grinding wheels. 3,435,814, 4-1-69, Cl. 125-11.
Fertig, Joseph: *See—*
Skoultchi, Martin; and Fertig, Joseph,3,428,588.
Stockmann, Hans H.; and Fertig, Joseph,3,464,969.
Fertig, Kenneth; and Edwards, Rodney, Jr., to Massachusetts Institute of Technology. Electronically commutated permanent magnet torque motor. 3,483,457, 12-9-69, Cl. 318-138.
Fertig, Raymond Baines: *See—*
Nickell, Lawrence Creigh; Fertig, Raymond Baines; Spence, Harry Robert; and Sessions, Henry T.,3,486,828.
Ferwerda, Ray. Combined digging bucket and saw. 3,471,950, 10-14-69, Cl. 37-118.
Fesco, John J., to Studley Paper Company, Inc. Vacuum cleaner filter bag. 3,421,683, 1-14-69, Cl. 229-53.
Fesco, John J., to Studley Paper Company, Inc. Disposable filter bag. 3,430,843, 3-4-69, Cl. 229-62.5
Fesco, John J., to Studley Paper Company, Inc. Vacuum cleaner filter bags. 3,452,520, 7-1-69, Cl. 55-367.
Fesco, John J., to Studley Paper Company, Inc. Vacuum cleaner filter bag and the method of forming same. 3,457,706, 7-29-69, Cl. 55-367.
Fesco, John J., to Studley Paper Company, Inc. Vacuum cleaner filter bag. 3,457,707, 7-29-69, Cl. 55-376.
Fesco, John J., to Studley Paper Company, Inc. Filter bag. 3,477,209, 11-11-69, Cl. 55-367.
Fesco, John J., to Studley Paper Company, Inc. Multi-compartment vacuum cleaner filter bag. 3,479,802, 11-25-69, Cl. 55-367.
Fessenden, De Witt M. Fuel mixing device for internal combustion engines. 3,421,485, 1-14-69, Cl. 123-119.
Fessenden, John R.; and McDonald, William G., to Eastman Kodak Company. Package for film sheets. 3,438,485, 4-15-69, Cl. 206-56.
Fessler, Julius H., of 1/2 to Krueger, Albert P. Filter apparatus. 3,478,889, 11-18-69, Cl. 210-406.
Fessler, Keith C., Sr. Sprinkler fence. 3,425,630, 2-4-69, Cl. 239-208.
Fessler, Theodore E.; Smith, Albert B.; and Vincent, John S., to United States of America, National Aeronautics and Space Administration. Thin window drifted silicon, charged particle detector. 3,421,056, 1-7-69, Cl. 317-234.

Fessmann, Gerhard. Process and apparatus for preparing a smoking fluid and smoking foodstuffs therewith. 3,462,282, 8-19-69, Cl. 99-229.
Fest, Christa; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Methods of using particular carbamic acid esters for insecticidal and acaricidal purposes. 3,476,490, 11-4-69, Cl. 424-300.
Fest, Christa; Hammann, Ingeborg; Stendel, Wilhelm; and Flucke, Winfried, to Farbenfabriken Bayer Aktiengesellschaft. Certain trichloro-pyridyl-2-thionophosphonic acid esters. 3,478,037, 11-11-69, Cl. 260-294.8
Fest, Christa; and Hermann, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Carbamic acid (fluoroacetamido-trichloro)ethyl esters. 3,442,932, 5-6-69, Cl. 260-472.
Fester, Guenther W. Vehicle window screen. 3,422,876, 1-21-69, Cl. 160-40.
Feterl, Leon G. Grain cleaning mechanism. 3,463,314, 8-26-69, Cl. 209-284.
Fetner, Martin J.: *See—*
Freedman, Robert P.; and Fetner, Martin J.,3,456,715.
Fetner, Martin J., to General Dynamics Corporation. Thickness reduction control system. 3,427,836, 2-18-69, Cl. 72-9.
Fetok GmbH: *See—*
Cremer, Gottfried, 3,471,135.
Cremer, Gottfried; Behrens, Heinz; and Schneider, Paul, 3,485,900.
Fetscher, Charles A.. *See—*
Altscher, Siegfried; and Fetscher, Charles A.,3,476,710.
Fetterly, Lloyd C.; and Conklin, George W., to Shell Oil Company. Polyol synthesis using formaldehyde and olefins. 3,438,997, 4-15-69, Cl. 260-340.7
Fetterman, Donald L., to United States of America, Army. Fuel cell rejuvenation control means. 3,471,337, 10-7-69, Cl. 136-86.
Fettke, John M., to Gar-Kenyon Instruments, Inc. High-pressure relief valve. 3,472,274, 10-14-69, Cl. 137-469.
Fettweis, Alfred Leo Maria, to International Standard Electric Corporation. Resonant transfer filters with impedance compensating filters for filter cut-offs unequal to one-half of the sampling frequency. 3,431,360, 3-4-69, Cl. 179-15.
Fetzer, Hans: *See—*
Wilke, Werner; and Fetzer, Hans,3,452,532.
Wilke, Werner; and Fetzer, Hans,3,475,894.
Fetzer, Maurice C.: *See—*
Roberts, Sidney G.; Fetzer, Maurice C.; and Hess, James B.,3,462,248.
Fetzer, Uwe: *See—*
Ugi, Ivar; Fetzer, Uwe; Unterstenhofer, Gunter; Behrenz, Wolfgang; Frohberger, Paul-Ernst; and Scheinpflug, Hans,3,422,190.
Feucht, Robert E.: *See—*
Cohen, Edward A.; Bosworth, Robert H.; and Feucht, Robert E.,3,471,349.
Feuchtwanger, Joseph: *See—*
O'Leary, John P.; Woolaway, Thomas P.; Reese, Richard S.; and Feuchtwanger, Joseph,3,451,536.
Feuer, Irving, to Canrad Precision Industries, Inc. Self-luminous tritium light sources. 3,478,209, 11-11-69, Cl. 250-77.
Feuer, Paul H.: *See—*
Wilde, James D.; and Feuer, Paul H.,3,450,394.
Feuer, Robert, to Bunker-Ramo Corporation, The. Digital memory apparatus. 3,447,137, 5-27-69, Cl. 340-173.
Feuerer, William A. Anchoring device. 3,467,351, 9-16-69, Cl. 248-216.
Feuerstake, Heinrich, to Holstein & Kappert Maschinenfabrik Phonix G.m.b.H. Method and apparatus for treating butter. 3,429,715, 2-25-69, Cl. 99-119.
Feuge, Reuben O.; Lovegren, Norman V.; and Gajee, Betty B., to United States of America, Agriculture. Process for the production of confectionery fats. 3,431,116, 3-4-69, Cl. 99-118.
Feugeas, Paul, to Compagnie Electro-Mecanique Societe Anonyme. Power regulating devices of thermal-engine driven generators. 3,450,976, 6-17-69, Cl. 322-30.
Feuillepain, Marcel: *See—*
Henquet, Andre Jean; Cavin, Robert Victor; and Feuillepain, Marcel,3,466,606.
Feuling, Bert G.: *See—*
Reid, Orland B.; and Feuling, Bert G.,3,482,540.
Feure, Henry; and Hall, Albert M., to Purdue Research Foundation. Process for the preparation of dialkali metal salts of dinitrocyclic ketones. 3,470,253, 9-30-69, Cl. 260-586.
Feurer, Walther A. High pressure watertight watch crown. 3,485,036, 12-23-69, Cl. 58-90.
Feustel, Ortwin, to International Standard Electric Corporation. Magnetic exclusive-or circuit providing the storage of an input variable. 3,467,954, 9-16-69, Cl. 340-174.
Feuszner, Hannes: *See—*
Bullinger, Theo; and Feuszner, Hannes,3,486,098.
Feutrel, Claude; Loubet, Michel; and Luce, Gerard, to Commissariat a l'Energie Atomique. Apparatus for semi-automatically machining helical fins in tubular members. 3,466,975, 9-16-69, Cl. 90-28.1
Fewel, Kenneth J., to LTV Aerospace Corporation. Actuator mechanism. 3,453,938, 7-8-69, Cl. 92-33.
Fewel, Robert A., to Phillips Petroleum Company. Vaporization control. 3,481,349, 12-2-69, Cl. 137-2.
Fewings, David John, to Marconi Company Limited, The. Piezoelectric crystal circuit arrangements. 3,463,945, 8-26-69, Cl. 310-8.9
Fey, Maurice G.: *See—*
Wolf, Charles B.; Kemeny, George A.; and Fey, Maurice G.,3,480,717.
Fey, Robert M., to General Electric Company. Electro-magnetic clutch. 3,480,124, 11-25-69, Cl. 192-84.
Fey, Robert M.; and Williams, Thomas W., to General Electric Company. Compensated control for electromagnetic clutch. 3,459,011, 8-5-69, Cl. 68-12.
Feyling, Anders F., to EG & G International, Inc., mesne. Recovery release system. 3,463,113, 8-26-69, Cl. 114-221.
Feyling, Anders Fred, to EG & G International, Inc., mesne. Buoy apparatus. 3,423,777, 1-28-69, Cl. 9-8.
Ffooks, Roger C., to Conch International Methane Limited. Tank keyway and weld tester. 3,435,983, 4-1-69, Cl. 220-80.
Fi-Jax Company: *See—*
Fitzgerald, Harold M., 3,457,947.
Fiala, Martin, KG.: *See—*
Cramer, Ulrich; Jung, Manfred; and Weinmann, Karl, 3,450,417.
Fialkoff, Samuel, to Camin Laboratories, Inc. Process for making metallic structure. 3,424,657, 1-28-69, Cl. 204-9.
Fiandt, Ronald Maynard: *See—*
Burant, Leonard Joseph; and Fiandt, Ronald Maynard,3,427,201.
Fiarman, Irwin S.; and Gehman, David R., to Rohm & Haas Company. Aqueous floor polish compositons containing a water insoluble additon polymer and a polyvalent metal chelate. 3,467,610, 9-16-69, Cl. 260-22.
Fiat Societa per Azioni: *See—*
Ardoino, Gian Luigi, 3,421,373.
Baldwin, Philip Sidney, 3,443,382.
Bracco, Cesare; and Taverna, Sergio, 3,455,141.
Capriolo, Igino; and Sacerdote, Ugo, 3,428,037.
Cordiano, Ettore, 3,459,286.
Giacosa, Dante, 3,469,859.
Menini, Aurelio, 3,457,443.
Parodi, Luciano; and Vallauri, Maurizio, 3,457,444.
Sola, Giuseppe, 3,433,172.
Zucchellini, Mose, 3,425,322.
Zucchellini, Mose, 3,429,201.
Fiber Controls Corporation: *See—*
Wise, Cecil S., 3,439,838.
Fiber Industries, Inc.: *See—*
Hendry, Glenn G., Jr., 3,435,108.
Krieger, Marvin, 3,484,881.
Simons, Frank Holmes, 3,480,596.
Timmons, William D., Jr.; and Worsham, Walter C., 3,481,136.
Fiberglas Canada Limited: *See—*
Deuzeman, Hendrik H., 3,487,048.
Gladney, Kurt Paul; and Deuzeman, Hendrik Herman Jan, 3,432,453.
Fibers Unlimited, Inc.: *See—*
Brown, George E., Jr., 3,420,454.
Fiberwoven Corporation, The: *See—*
Smith, Alexander M., II, 3,483,601.
Fibora AG: *See—*
Engelmann, Walter, 3,427,897.
Engelmann, Walter, 3,442,171.
Engelmann, Walter, 3,453,926.
Fibranz, Joachim: *See—*
Dilchert, Heinz; Cramm, Rudolf; and Fibranz, Joachim,3,442,084.
Fibre-Metal Products Company, The: *See—*
Bowers, Charles E., Jr., 3,422,459.
Fibreboard Corporation: *See—*
Chin, Arthur H. T., 3,462,916.
Elward, John R., 3,454,212.
Geisler, William, 3,424,069.
Geisler, William; and Clark, Norman R., 3,430,326.
Geisler, William; and Clark, Norman R., 3,439,589.
Harris, David A., 3,421,281.
Hottendorf, William J., 3,482,372.
Moore, Norman H.; and Poupitch, Ougljesa Jules, 3,434,592.
Fibreglass Limited: *See—*
Warren, Geoffrey A., 3,485,210.
Fichera, Ernesto. Discharge mechanism for bottom pouring steel ladle. 3,454,201, 7-8-69, Cl. 222-531.
Fichet-Bauche: *See—*
Gerard, Jean, 3,473,353.
Fichte, Rudolf: *See—*
Stadler, Fritz; and Fichte, Rudolf,3,442,644.
Fichtel & Sachs A.G.: *See—*
Binder, Richard; and Faedler, Kurt, 3,428,155.

Fend, Fritz, 3,454,058.
Fend, Fritz, 3,461,925.
Gimmler, Joachim, 3,472,023.
Otterbach, Gerd; Grafe, Wolfgang; and Kessler, Reinhard, 3,424,286.
Schwerdhofer, Hans Joachim, 3,432,015.
Schwerdhofer, Hans Joachim, 3,461,746.
Wossner, Felix, 3,430,512.

Fichter, Harry L., Jr., to Horizons Research Incorporated. Photosensitive color-forming composition. 3,443,945, 5-13-69, Cl. 96-48.

Fichter, Harry L., Jr., to Horizons, Incorporated. Process for increasing the opacity of a dye image and correcting said image for reproduction by a diazo process. 3,450,532, 6-17-69, Cl. 96-27.

Fichter, Manfred, to Kienzle Apparate GmbH. Electronic speed measuring arrangement. 3,480,859, 11-25-69, Cl. 324-70.

Fichtner, Friedrich: *See—*
Gerber, Jurgen; and Fichtner, Friedrich,3,478,647.

Fichtner, James O., to Worthington Corporation. Combination heating and cooling unit with condenser fan flue product exhaustion means. 3,465,816, 9-9-69, Cl. 165-48.

Fichtner, Roland H., to Electrohome Limited. Multi-stage direct coupled transistor amplifiers employing feedback. 3,460,048, 8-5-69, Cl. 330-25.

Fichtner, Rudi, to United Shoe Machinery Corporation. Actuating means for nail container, used particularly in heel seat lasters. 3,470,755, 10-7-69, Cl. 74-89.11

Fick, Hans H.; and Crosser, Ralph W., Jr., to Kennecott Copper Corporation. Automatically controlled floatation apparatus and method. 3,471,010, 10-7-69, Cl. 209-1.

Fick, Herbert J.: *See—*
Bratton, Francis H.; and Fick, Herbert J.,3,452,133.
Bratton, Francis H.; Fick, Herbert J.; and Klimisch, Kenneth W.,3,449,193.

Fick, Herbert J.; and Johnson, Roger W., to Schjeldahl, G. T., Company. Process for removing adhesives from polyolefin film by immersion in sulfuric acid. 3,437,522, 4-8-69, Cl. 134-38.

Fick, Oliver A., to United States of America, Atomic Energy Commission. Voltage-tuned wien bridge oscillator. 3,432,774, 3-11-69, Cl. 331-141.

Fickel, Ronald G., to Universal Oil Products Company. Sorption process. 3,455,815, 7-15-69, Cl. 208-310.

Ficken, Geoffrey Ernest, to Ilford Limited. Silver halide emulsions containing chain-substituted cyanine dyes. 3,460,947, 8-12-69, Cl. 96-106.

Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William, to Ilford Limited. Super-sensitized photographic silver halide light- sensitive materials. 3,431,110, 3-4-69, Cl. 96-104.

Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William, to Ilford Limited. Supersensitised silver halide emulsions with three cyanine dyes. 3,463,640, 8-26-69, Cl. 96-104.

Ficken, Norman L., Jr.: *See—*
Dean, Mills, III; Ficken, Norman L., Jr.; and Mossi, Ercole J.,3,457,536.

Ficker, Walter W.; Rajac, Thomas J.; and Stricker, Alfred A., to International Business Machines Corporation. Workpiece rack unloader apparatus. 3,443,707, 5-13-69, Cl. 214-310.

Fickler, Hans-Heinrich, to Schneider, Jos., & Co. Optische Werke. Arrangements in hot presses. 3,482,510, 12-9-69, Cl. 100-93.

Fickweiler, August E. F., to Indoheem N.V. Safety system for an electrically heated blanket. 3,445,631, 5-20-69, Cl. 219-494.

Fidder, Roelof: *See—*
van den Berg, Cornelis E. P. V.; and Fidder, Roelof,3,472,823.

Fiddyment, Earl W. Pour spout and vent construction. 3,447,724, 6-3-69, Cl. 222-469.

Fidelity File Box, Inc.: *See—*
Fiterman, Benjamin; and Paletz, Leonard M., 3,464,372.

Fidler, Larry E.: *See—*
Jones, Burton A.; and Fidler, Larry E.,3,452,769.

Fidler, William Edward, to Du Pont de Nemours, E. I., and Company, mesne. Method of applying anti-skid agents to shaped plastic articles by spin-welding. 3,438,825, 4-15-69, Cl. 156-73.

Fiedler, Armin. Combined stepladder-cart. 3,430,972, 3-4-69, Cl. 280-30.

Fiedler, Armin, to Fastener Corporation. Fastener driving tool. 3,437,250, 4-8-69, Cl. 227-127.

Fiedler, Bruce H., to Allis-Chalmers Manufacturing Company. Rotating die wafering device. 3,463,096, 8-26-69, Cl. 107-14.

Fiedler, Marvin L.: *See—*
Hartley, Arnold B.; and Fiedler, Marvin L.,3,455,557.

Fiedler, William S.; and Annen, Robert P., to LOR Corporation. Method of melting and casting foam metal. 3,481,389, 12-2-69, Cl. 164-55.

Fiedorowicz, John Joseph: *See—*
Lamonde, Romeo Leon; and Fiedorowicz, John Joseph,3,463,901.

Field, Braham Rowley, to Alkaline Batteries Limited. Electric storage batteries. 3,455,739, 7-15-69, Cl. 136-6.

Field, Dennis Ronald: *See—*
Hawtin, Selwyn George; Smith, David Roger; and Field, Dennis Ronald,3,477,218.

Field Emission Corporation: *See—*
Anderson, Robert L.; Dyke, Walter P.; and Grundhauser, Frank J., 3,432,663.
Brewster, John L., 3,483,379.
Dyke, Walter P.; Grundhauser, Frank J.; and Barbour, John P., 3,428,803.
Lewis, Robert H.; Barbour, John P.; Dyke, Walter P.; and Grundhause, Frank J., 3,482,096.

Field, Frederick C., Jr., to Du Pont de Nemours, E. I., and Company. Wrapped yarn product and process for preparing wrapped yarns. 3,427,647, 2-11-69, Cl. 57-144.

Field, Frederick C., Jr., to Du Pont de Nemours, E. I., and Company. High speed drafting process. 3,438,094, 4-15-69, Cl. 19-288.

Field, Frederick C., Jr., to Du Pont de Nemours, E. I., and Company. Yarn processing. 3,447,302, 6-3-69, Cl. 57-157.

Field, George Francis; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Benzodiazepines. 3,481,921, 12-2-69, Cl. 260-239.

Field, George Francis; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Preparation of 1,2-dihydro-5-phenyl-2H-1, 4-benzodiazepin-2-one 4-oxides. 3,485,823, 12-23-69, Cl. 260-239.3

Field, George Francis; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Azirino(1,2-a) quinazoline 2-oxide and preparation thereof. 3,485,841, 12-23-69, Cl. 260-251.

Field, Gordon C.: *See—*
Kaye, Alan R.; and Field, Gordon C.,3,463,940.

Field, Harold: *See—*
Clune, Richard R.; and Field, Harold,3,427,204.

Field, Harry W. Engine sound simulator. 3,425,156, 2-4-69, Cl. 46-232.

Field, Jesse L., Jr.: *See—*
Cryder, John R.; Field, Jesse L., Jr.; Lohbauer, Kenneth R.; and Scheidt, James E.,3,486,418.

Field, John Henry; and Parkes, George Robertson, to Birfield Engineering Limited. Shaft couplings. 3,449,927, 6-17-69, Cl. 64-23.

Field, Joseph H.: *See—*
Forney, Albert J.; Gasior, Stanley J.; and Field, Joseph H.,3,463,623.
Johnson, Glenn E.; Forney, Albert J.; and Field, Joseph H.,3,424,676.

Field, Joseph Patrick: *See—*
Erwin, Edson Lockwood; Field, Joseph Patrick; and Mahood, Robert John,3,441,677.

Field, Leonard Edward, to Aluminum Foils Limited. Foil heating method. 3,443,052, 5-6-69, Cl. 219-50.

Field, Louis. Vehicle body securing means. 3,463,501, 8-26-69, Cl. 280-5.

Field, Milton Scott; and Nilson, Edward B., to Alm Corp., mesne. Automatic disconnect socket assembly. 3,432,629, 3-11-69, Cl. 200-51.07

Field, Nathan D.: *See—*
Azorlosa, Julian Louis; Williams, Earl Pierce; and Field, Nathan D.,3,436,378.

Field, Philip M., to Beseler, Charles, Company. Overhead projector. 3,472,589, 10-14-69, Cl. 353-98.

Field, Richard H.: *See—*
Hargens, Charles W., III; and Field, Richard H.,3,452,589.

Field, Robert O.; and Schamel, Clyde H., to General Motors Corporation. Headlining retainer. 3,433,526, 3-18-69, Cl. 296-137.

Field, Sheldon B., to McMullen, John J., Associates, Inc. Roof and cargo handling assembly for docks and the like. 3,471,040, 10-7-69, Cl. 214-14.

Field, Sheldon B.; and Pangalila, Frans V. A., to Flume Stabilization Systems, Inc. Variably damped passive tank stabilizer. 3,422,781, 1-21-69, Cl. 114-125.

Fieldcrest Mills, Inc.: *See—*
Law, Marvin A., 3,422,512.
Mills, Edwin R., 3,423,567.
Tanner, Richard C.; and Baldwin, Edward B., Jr., 3,425,891.

Fielden, Edward M.: *See—*
Hart, Edwin J.; and Fielden, Edward M.,3,429,667.

Fielden Electronics Limited: *See—*
Worland, Arthur, 3,461,352.

Fielden, Marvel L.: *See—*
Lunsford, Carl D.; and Fielden, Marvel L.,3,423,418.
Lunsford, Carl D.; and Fielden, Marvel L.,3,457,267.

Fielden, Roy: *See—*
Green, Albert Lawrence; and Fielden, Roy,3,483,299.

Fieldgate, Ivan O.; and Livote, Nicholas A., to Potter Instrument Company, Inc. Magnetic tape transport with improved mechanical tape motion sensor. 3,454,204, 7-8-69, Cl. 226-43.

Fields, Bruce G., to Chrysler Corporation. Method of forming a brake band. 3,431,627, 3-11-69, Cl. 29-423.

Fields, Davis S., Jr.; and Mehl, Daniel L., to International Business Machines Corporation. Metal softening procss and product thereof. 3,420,717, 1-7-69, Cl. 148-11.5

Fields, Ellis K., to Standard Oil Company (Indiana). Novel sulfonic acids and process for synthesizing sulfonic acids. 3,442,939, 5-6-69, Cl. 260-511.
Fields, Ellis K., to Standard Oil Company (Indiana). Method for preparing oximes from cyclic olefins. 3,454,641, 7-8-69, Cl. 260-566.
Fields, Ellis K.: *See—*
Puskas, Imre; and Fields, Ellis K.,3,446,864.
Fields, Irving; Schneiderman, Alvin R.; and Tiffany, Harry R., III, to Lehigh Furniture Corporation. Support. 3,443,782, 5-13-69, Cl. 248-188.7
Fields, James R.: *See—*
Dabney, Eugene E.; Fields, James R.; Gerber, Loris L.; and Newins, Charles E.,3,456,918.
Fields, Jesse M., to Cone Mills Corporation. Process of dyeing cotton fibers with indigo vat dyes. 3,457,022, 7-22-69, Cl. 8-28.
Fields, John G.: *See—*
Cornwell, Robert, Jr.; and Fields, John G.,3,437,927.
Fields, Joseph E., to Monsanto Company. Dispersency oil additives. 3,449,250, 6-10-69, Cl. 252-51.5
Fields, Mack R., to Roehr Metals & Plastics Company. Tamper-indicating closure. 3,438,528, 4-15-69, Cl. 215-42.
Fields, Mack R., to Roehr Metals & Plastics Company. Tamper-indicating closure. 3,463,341, 8-26-69, Cl. 215-42.
Fields, Mack R., to Abbott Laboratories. Flow control device. 3,477,454, 11-11-69, Cl. 137-1.
Fields, Mack R.; Roehr, Zbislaw M.; and Beall, Glenn L., to Roehr Metals & Plastics Company. Tamper-indicating closure. 3,455,478, 7-15-69, Cl. 215-7.
Fields, Reuben T.: *See—*
Dunnington, Gordon B.; and Fields, Reuben T.,3,470,288.
Fields, Roger Q., to Schlumberger Technology Corporation. Formation-sampling apparatus. 3,430,715, 3-4-69, Cl. 175-78.
Fields, Roger Q., to Schlumberger Technology Corporation. Tool orienting system. 3,465,836, 9-9-69, Cl. 175-4.51
Fields, Walter M., to American Air Filter Company, Inc. Fluid treating apparatus for an electrostatic precipitator. 3,464,185, 9-2-69, Cl. 55-118.
Fields, William F.Child's riding toy. 3,425,709, 2-4-69, Cl. 280-79.2
Fieldstone Corporation, The: *See—*
Boegli, Charles P.; and Steigerwald, Delbert, 3,431,891.
Fieni, Walter, to Societe Anonyme Francaise du Ferodo. Heat exchangers. 3,450,197, 6-17-69, Cl. 165-142.
Fieni, Walter, to Societe Anonyme Francaise du Ferodo. Finned heat exchanger. 3,478,821, 11-18-69, Cl. 165-182.
Fieni, Walter, to Societe Anonyme Francaise du Ferodo. Automatic control valve, in particular for motor-car heating systems. 3,485,473, 12-23-69, Cl. 251-77.
Fierce, William L., to Union Oil Company of California. Process of preparing esters. 3,461,156, 8-12-69, Cl. 260-491.
Fierce, William L.: *See—*
Weichman, Roger L.; and Fierce, William L.,3,442,882.
Weichman, Roger L.; Walsh, John W.; and Fierce, William L.,3,480,568.
Fierle, Edward J.; and Melville, William R., Jr., to Bausch & Lomb, Incorporated. Ultrasonic cleaning device. 3,445,092, 5-20-69, Cl. 259-116.
Fieroiu, Victoria: *See—*
Ceausescu, Elena; and Fieroiu, Victoria,3,434,523.
Fierro Esponja, S.A.: *See—*
Celada, Juan; Villarreal, David; and MacKay, Patrick W., 3,423,201.
Celada, Juan; Villarreal, David; Reyna, Armando; and Mackay, Patrick W., 3,467,368.
Fierstine, Burton A., to Baker Perkins Inc. Centrifugal separating system. 3,463,316, 8-26-69, Cl. 210-78.
Fierston, Stanley A.; and Towle, William C., to United States of America, Army, mesne. Tapped delay line integrator. 3,428,905, 2-18-69, Cl. 328-127.
Fievet, Robert Henri Jules, to Fromageries Bel-La Vache Qui Rit. Distributing device for melted cheese packaging machines. 3,450,174, 6-17-69, Cl. 141-146.
Fife Manufacturing Company: *See—*
Brown, Jerald L.; and Shelton, John J., 3,431,425.
Fifer, Rolland L. Transportable sewage treating apparatus. 3,460,677, 8-12-69, Cl. 210-199.
Fifer, Rolland L. Transportable sewage treating apparatus. 3,476,250, 11-4-69, Cl. 210-199.
Figa, Rubin. Flashlight with replaceable battery. 3,457,398, 7-22-69, Cl. 240-10.68
Figar, Stepan, to Ceskoslovenska akademie ved. Sensing device for a plethysmograph. 3,464,403, 9-2-69, Cl. 128-2.05
Figg, John E. N., to Northern Electric Company, Limited. Method and apparatus for continuously producing a continuous length of insulated wire. 3,428,504, 2-18-69, Cl. 156-49.
Figge, Frank H. J. Nonheel shaving hypodermic needle. 3,448,740, 6-10-69, Cl. 128-221.
Figge, Frank H. J.; and Flower, Guiles, Jr., to AMP Incorporated. Method of administering therapeutic agents. 3,474,777, 10-28-69, Cl. 128-2.
Figgins, Donald A.: *See—*
Foote, Richard H.; and Figgins, Donald A.,3,484,712.
Figiel, Francis J.; and Muraca, Raffaele F., to Allied Chemical Corporation. Synthetic diamantiferous composition. 3,422,032, 1-14-69, Cl. 252-444.
Figler, Robert H.: *See—*
Aser, Gilbert A.; Figler, Robert H.; Manghirmalani, Arjan T.; and Redding, Thomas P.,3,435,500.
Manghirmalani, Arjan T.; Trabold, Andrew F.; and Figler, Robert H.,3,437,032.
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J., to General Electric Company. Dual control apparatus in data processing equipment. 3,475,731, 10-28-69, Cl. 340-172.5
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J., to General Electric Company. Priority apparatus in a computer system. 3,483,522, 12-9-69, Cl. 340-172.5
Figueroa, John W.; Porcelli, Ernest J.; and Rakoczi, Laszlo L., to General Electric Company. Information shift apparatus in a computer system. 3,475,730, 10-28-69, Cl. 340-172.5
Figuet, Maurice Germain; and Mas, Robert Jean, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Process for making titanium tetrachloride. 3,481,697, 12-2-69, Cl. 23-87.
Figura, Michael. Merry-go-round. 3,442,509, 5-6-69, Cl. 272-43.
Fijal, Walter R., to Wyandotte Chemicals Corporation. Low density foam system for refrigeration use. 3,471,416, 10-7-69, Cl. 260-2.5
Fiks, Gerhard: *See—*
Brinkmeier, Friedhelm; Fiks, Gerhard; and Rochla, Kurt,3,461,021.
Fikse, Tyman H. Landfill refuse-burying method and apparatus. 3,446,026, 5-27-69, Cl. 61-35.
Filak, Carl M.: *See—*
Murphy, Alfred M.; Filak, Carl M.; Long, Thomas P.; and Brown, John A., Jr.,3,475,942.
Filatov, Eduard Yakovlevich; and Pavlovsky, Vadim Eduardovich. Mechanism converting torsional vibration into linear one. 3,430,502, 3-4-69, Cl. 74-89.
Filatovsky, Lev Alexeevich: *See—*
Balitsky, Andrei Vasilievich; Penkin, Nikolai Ilich; Filatovsky, Lev Alexeevich; Gavrilov, Nikolai Ivanovich; and Rybchinsky, Rostislav Evgenievich,3,468,561.
Filbert, Augustus M.; and Hair, Michael L., to Corning Glass Works. Chromatography method and apparatus. 3,453,806, 7-8-69, Cl. 55-67.
Filbert, Augustus M.; and Hair, Michael L., to Corning Glass Works. Gas chromatography method and apparatus. 3,456,427, 7-22-69, Cl. 55-67.
Filbert, J. H., Inc.: *See—*
Graham, William A.; and Green, Allan Kay, 3,463,083.
Filbey, Allen H.: *See—*
Braxton, Henry G., Jr.; and Filbey, Allen H.,3,484,218.
Zaweski, Edward F.; and Filbey, Allen H.,3,476,774.
Filchak, Robert W.; and Neill, Daniel L., to Aiken Industries, Inc. Electromechanical remotely controllable circuit breaker. 3,422,384, 1-14-69, Cl. 337-37.
Fildshtein, Mikhail Viktorovich: *See—*
Tobolov, Petr Nikitich; Kriger, Jury Arkadievich; Litvinov, Ivan Petrovich; Bashirov, Ismagil Gareevich; and Fildshtein, Mikhail Viktorovich,3,451,659.
Filer, Terry D.: *See—*
Sheetz, David P.; and Filer, Terry D.,3,444,219.
Filho, Francisco Muniz: *See—*
Hoisve, Harold V.; and Filho, Francisco Muniz,3,484,965.
Filipak, Edmund H., to Westinghouse Electric Corporation. Heat cleaning oven with shuttered oven door window. 3,448,244, 6-3-69, Cl. 219-412.
Filippi, Frank J.: *See—*
Wolcott, Charles E.; and Filippi, Frank J.,3,430,390.
Filippi, Jean-Paul; and Zucca, Marc Edouard, 1/3 to Chantiers Navals de la Ciotat. Remote-control operated and pneumatic logical relays monitored installation. 3,474,620, 10-28-69, Cl. 60-16.
Filler & Fiebig GmbH: *See—*
Koelichen, Harald, 3,447,964.
Fillery, Gordon Thomas, to Mauz & Pfeiffer G.m.b.H. & Co. KG. Suction cleaners with wheel adjustment. 3,460,187, 8-12-69, Cl. 15-361.
Fillery, Gordon Thomas, to Mauz & Pfeiffer G.m.b.H. & Co. KG. Suction cleaners. 3,482,276, 12-9-69, Cl. 15-349.
Fillinger, Russell V.: *See—*
Calnon, Donald C., Jr.; Fillinger, Russell V.; Holznagel, Melvin A.; and Stack, Richard W.,3,426,237.
Fillmore, John David: *See—*
Prall, John Karel; and Fillmore, John David,3,440,867.
Fillmore, Leland A.; and Butler, Vaughn H., to Burlington Industries, Inc. Panty hose garment and the method of making the same. 3,449,932, 6-17-69, Cl. 66-177.
Fillmore, Leland A.; and Jenkins, Jack J., to Burlington Industries, Inc. Stocking and method of making same. 3,477,256, 11-11-69, Cl. 66-172.
Fillod, Rene; Lallement, Gerard; and Oudet, Claude, to Societe Dite Jaz S.A. Tuning gyrometer. 3,460,396, 8-12-69, Cl. 73-505.

Filmon Process Corporation: *See—*
Ploeger, Walter, Jr., 3,460,666.
Ploeger, Walter, Jr., 3,461,998.
Filper Corporation: *See—*
Cudd, William H.; and Soulier, Robert A., 3,442,313.
Filson, John Richard, to Matsushita Electric Industrial Co., Ltd. Brazing slug. 3,439,859, 4-22-69, Cl. 228-56.
Filson, John Richard. Apparatus for inserting solder in connector sleeve. 3,449,814, 6-17-69, Cl. 29-203.
Filson, John Richard. Hermaphrodite electrical connector. 3,480,903, 11-25-69, Cl. 339-47.
Filson, John Richard. Crimping device. 3,486,362, 12-30-69, Cl. 72-401.
Filstrup, Poul, to Aktiebolaget Separator. Method for producing blood meal. 3,450,537, 6-17-69, Cl. 99-21.
Filterite Corporation: *See—*
Miller, Charles A., Jr.; Masaschi, Joseph B.; and Miller, Robert W., Jr., 3,471,028.
Filters, Inc.: *See—*
Howard, Herbert H., 3,481,473.
Filterwerk Mann & Hummel G.m.b.H., Messrs.: *See—*
Barth, Alfred; Beck, Karl; and Wiedmann, Walter, 3,434,601.
Filton Limited: *See—*
Murray, William; and Walker, Gordon Richard, 3,441,284.
Filtrol Corporation: *See—*
Secor, Robert B., 3,446,727.
Filz, Charles J.: *See—*
Blum, Josef; and Filz, Charles J.,3,420,437.
Finch, Gerald H. Exterior shell mute for brass musical instruments. 3,429,215, 2-25-69, Cl. 84-400.
Finch, Harvey E., 1/2 to Redlick, Richard. Liquid clarifying method. 3,444,077, 5-13-69, Cl. 210-28.
Finch, Harvey E., 1/2 to Redlick, Richard. Rice hull method, apparatus and product. 3,451,944, 6-24-69, Cl. 252-421.
Finch, Lester M., to United States of America, Atomic Energy Commission. Blast shield for nuclear reactor. 3,466,227, 9-9-69, Cl. 176-87.
Finch, Lester M.; and Anthony, Andy J., to United States of America, Atomic Energy Commission. Fuel subassembly for a liquid-metal-cooled, fast breeder nuclear reactor. 3,468,757, 9-23-69, Cl. 176-78.
Finch, Neil L., to Du Pont de Nemours, E. I., and Company. Bulkable nylon yarn. 3,421,935, 1-14-69, Cl. 117-138.8
Finch, Neville; and Taylor, William Irving, to Ciba Corporation. 1-Cyclopentenecarboxylic acids. 3,466,319, 9-9-69, Cl. 260-468.
Finch, Tudor R.; and Waaben, Sigurd G., to Bell Telephone Laboratories, Incorporated. Symmetrical store array. 3,484,764, 12-16-69, Cl. 340-174.
Fincham, Christopher J. B., to National Research Corporation. Electrical device. 3,476,557, 11-4-69, Cl. 75-222.
Fincher, Alton R. Holder for paper articles. 3,473,672, 10-21-69, Cl. 211-51.
Finck, Frederick P., Jr., to Ruleta Company, Inc., The. Lockable fastener with plunger sleeving draw key. 3,446,045, 5-27-69, Cl. 70-34.
Finck, Frederick P., Jr., to Ruleta Company, Inc., The. Draw key for unlocking fasteners having solid or hollow control plungers. 3,478,548, 11-18-69, Cl. 70-397.
Fincke, John K.: *See—*
De Brunner, Ralph E.; and Fincke, John K.,3,423,366.
Finckenor, Lawrence E.: *See—*
Shapiro, Elliot L.; and Finckenor, Lawrence E.,3,444,217.
Shapiro, Elliot L.; Collins, Elliott J.; and Finckenor, Lawrence E.,3,422,193.
Findeisen, Heinz Helmuth, to Epsylon Research and Development Company Limited. Portable magnetic tape recorder. 3,460,782, 8-12-69, Cl. 242-55.13
Findlan, John C.; Sorrentino, Ralph P.; and Wakeman, Rginald L., to Millmaster Onyx Corporation. Quaternary ammonium-tertiary amine oxide compositions. 3,484,523, 12-16-69, Cl. 424-248.
Findlay, Campbell: *See—*
Lawrie, Donald; and Findlay, Campbell,3,465,381.
Findlay, David, to Olin Mathieson Chemical Corporation. Cartridge feed system. 3,421,409, 1-14-69, Cl. 89-33.
Findlay, David: *See—*
Dixon, Glenn R.; and Findlay, David,3,455,202.
Findlay, Hugh T., to International Business Machines Corporation. Process of making spongeous transfer medium for moderate impact applications. 3,484,508, 12-16-69, Cl. 264-45.
Findlay, Hugh T.; and Horne, William H., to International Business Machines Corporation. Reusable transfer medium with print characteristics comparable to filled ink. 3,463,697, 8-26-69, Cl. 161-165.
Findlay, Hugh T.; and Horne, William H., to International Business Machines Corporation. Process of making a spongeous transfer medium. 3,485,903, 12-23-69, Cl. 264-41.
Findlay, Robert A.: *See—*
Cines, Martin R.; and Findlay, Robert A.,3,484,352.
Findlay, Robert L. Building construction. 3,420,016, 1-7-69, Cl. 52-221.
Findley, Howard J., to Textron Inc. Toolholder apparatus and turning method. 3,477,320, 11-11-69, Cl. 82-36.
Findley, Joseph D., Jr., to Westinghouse Electric Corporation. Disconnecting contact assembly for electrical apparatus. 3,427,419, 2-11-69, Cl. 200-166.
Findley, Thomas W.: *See—*
Baeuerlen, Robert J.; and Findley, Thomas W.,3,442,659.
Fine, Jonathan E.: *See—*
Warren, Raymond W.; Campagnuolo, Carl J.; and Fine, Jonathan E.,3,442,124.
Fine, Michael N.: *See—*
Aaron, Jack, 3,477,089.
Finelli, Anthony F.; and Suter, Charles A., to Goodyear Tire & Rubber Company, The. Product of catalyzing polyurethane formation by means of 2-mercapto-benzothiazoles, thiazoles, oxazoles, imidazoles, and imidazolines. 3,446,779, 5-27-69, Cl. 260-75.
Fineman, Bernard; and Fineman, Isadore. Display card. 3,462,012, 8-19-69, Cl. 206-38.
Fineman, Isadore: *See—*
Fineman, Bernard; and Fineman, Isadore,3,462,012.
Fineman, Melvin. Hair rollers. 3,474,796, 10-28-69, Cl. 132-38.
Finet, Jean: *See—*
Cassagne, Pierre; Besse, Jean; and Finet, Jean,3,439,211.
Finger, Armin A.: *See—*
Conrad, Ernest E.; and Finger, Armin A.,3,461,842.
Finger, Milton; James, Edward, Jr.; and Archibald, Paul B., to United States of America, Atomic Energy Commission. Multiphase extrudable explosive containing cyclotrimethylenetrinitramine or cyclotetramethylenetetranitramine. 3,480,490, 11-25-69, Cl. 149-92.
Finholt, Albert E. Method for preparing inorganic hydrides of phosphorus and arsenic. 3,446,605, 5-27-69, Cl. 23--365
Fink, Aaron J. Disposable culture device. 3,474,004, 10-21-69, Cl. 195-139.
Fink, Barry D., to United States of America, Navy, mesne. Water soluble winding mandrels and method of making the same. 3,425,982, 2-4-69, Cl. 260-41.
Fink, Doris E.: *See—*
Hyldon, Roy G.; Fink, Doris E.; and Aboul-Saad, Halim G.,3,450,692.
Fink, Edwin Harold, to American Can Company. Tubular body flanging method and means. 3,483,722, 12-16-69, Cl. 72-94.
Fink, Frank W.: *See—*
McVicker, Graham D.; and Fink, Frank W.,3,419,979.
Fink, Herbert: *See—*
Schroder, Gunter; Fink, Herbert; and Goth, Helmut,3,454,628.
Fink, Homer Russell, Jr.; and Scott, Victor P., to Macomber, Incorporated. Ribbed web girder. 3,444,664, 5-20-69, Cl. 52-732.
Fink, James A.: *See—*
Dunlap, Charles K., Jr.; and Fink, James A.,3,468,733.
Fink, John W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,992.
Fink, Justin I. Animal stretch lead. 3,441,005, 4-29-69, Cl. 119-109.
Fink, Lucynda I. Hair waver. 3,429,319, 2-25-69, Cl. 132-38.
Fink, Richard A.: *See—*
Rakes, Rodney G.; and Fink, Richard A.,3,453,514.
Fink, Robert C., to Ostrander-Seymour Co. Electrically heated platen. 3,478,192, 11-11-69, Cl. 219-243.
Fink, Walter, to Monsanto Company. Silicon-,nitrogen- and oxygen-containing high temperature resistant polymers and process. 3,422,060, 1-14-69, Cl. 260-46.5
Fink, Walter, to Monsanto Company. High temperature resistant polymeric cyclosilazanes. 3,431,222, 3-4-69, Cl. 260-2.
Fink, Walter, to Monsanto Company. Process for preparing 1,3-bis-(silyl)-1,3-diaza-2- silacycloalkanes. 3,468,922, 9-23-69, Cl. 260-448.2
Finkbeiner, Herman L.; and Klebe, Johann F., to General Electric Company. Soluble silylated cellulose and method of preparing same. 3,432,488, 3-11-69, Cl. 260-212.
Finkbeiner, Herman L.; and Klebe, Johann F., to General Electric Company. Difunctional optically active silanes. 3,436,415, 4-1-69, Cl. 260-448.2
Finkbeiner, Herman L.; and Klebe, Johann F. Optically active difunctional organosilicon compounds. 3,436,416, 4-1-69, Cl. 260-448.2
Finke, Gunter B., to Magnetic Metals Company. High permeability miniature transformers and inductors. 3,483,498, 12-9-69, Cl. 336-215.
Finke, Robert C.; and Vetrone, Robert H., to United States of America, National Aeronautics and Space Administration. Electrode and insulator with shielded dielectric junction. 3,420,945, 1-7-69, Cl. 174-18.
Finkel Outdoor Products, Inc.: *See—*
Militano, Vincent S., 3,476,169.
Finkelstein, Jacob, to Hoffmann-La Roche Inc. 1,4,-Dihydro-3(2H)-isoquinolines and process for their preparation. 3,480,634, 11-25-69, Cl. 260-289.
Finkelstein, Manuel: *See—*
Ross, Sidney D.; Petersen, Raymond C.; and Finkelstein, Manuel,3,459,643.

Finkelstein, Morris B., to Radio Corporation of America. Electronic splicing control system. 3,441,666, 4-29-69, Cl. 178-6.6
Finkelston, Robert J., to Pennsalt Chemicals Corporation. Centrifuge apparatus. 3,428,246, 2-18-69, Cl. 233-7.
Finkhauser, Dieter; and Huber, Erwin, to Siemens Aktiengesellschaft. Switching arrangement for a telephone installation. 3,427,404, 2-11-69, Cl. 179-18.
Finkhauser, Dieter; and Strobelt, Walter, to Siemens Aktiengesellschaft. Circuit arrangement branch exchange for a telephone installation, especially an installation with code selection and impulse selection of the subscriber stations. 3,426,154, 2-4-69, Cl. 179-16.
Finkin, Eugene. Internally cooled motion control system. 3,481,439, 12-2-69, Cl. 192-113.
Finkle, Jack. Electronic pick-up tube for incident X-rays with intensifier. 3,436,550, 4-1-69, Cl. 250-213.
Finkle, Jack. System for televising radiant energy images employing image transducer device with radiant energy image responsive photocathode. 3,482,104, 12-2-69, Cl. 250-213.
Finlay, Walter L.; Hay, Donald A.; and Hess, Wendell T., to Copper Range Company. Process of copper base product within iron base can. 3,474,516, 10-28-69, Cl. 29-423.
Finlayson, Claude Malcolm: *See*—
Cowan, Jack C.; Beasley, Augustus Earl, Jr.; Jordan, John W.; Finlayson, Claude Malcolm; and Sterns, Robert O.,3,425,953.
Finlayson, Lawrence A.: *See*—
Cornish, Rodney H.; and Finlayson, Lawrence A.,3,476,281.
Finlayson, Lloyd Taylor; and Doan, Hazen V., to Dow Chemical Company, The. Automatic controller for evacuation and purging of interchange chamber on controlled environment box. 3,474,823, 10-28-69, Cl. 137-554.
Finlayson, Malcolm J., to Fairchild Camera and Instrument Corporation. Contact metal system of an Al layer adjacent to semi- conductor and a layer of Au-Al intermetallics adjacent to the conductive metal. 3,436,615, 4-1-69, Cl. 317-234.
Finley, Jerry J., 25% to Booth, Virginia J. Crib closures. 3,428,971, 2-25-69, Cl. 5-100.
Finley, Otis E.: *See*—
Hoover, Carl E.; and Finley, Otis E.,3,452,871.
Finn, Bernard J.; and Mannings, Alan I., to General Motors Corporation. Vacuum spring construction. 3,482,832, 12-9-69, Cl. 267-34.
Finn Industries, Inc., The: *See*—
Adams, Leonard, Jr., 3,425,616.
Adams, Leonard, Jr., 3,443,739.
Adams, Leonard, Jr., 3,451,611.
Adams, Leonard, Jr., 3,459,358.
Adams, Leonard, Jr.; and Richardson, Suvella, 3,460,738.
Finn, John B.; and Hudecek, Carl J., to Owens-Illinois, Inc. Process for producing reflective colored glass surface. 3,468,646, 9-23-69, Cl. 65-30.
Finn, John J. Shoe with fit adjustment means. 3,431,658, 3-11-69, Cl. 36-58.5
Finn, John J., 1/2 to Glenn Electric Heater Corporation. Immersion heater. 3,444,356, 5-13-69, Cl. 219-331.
Finn, Lawrence A., to Wheelees, Inc. Skates. 3,476,399, 11-4-69, Cl. 280-11.25
Finnamore, James William, to Ashland Oil & Refining Company. Halogenated polyfunctional carboxylic ester. 3,437,682, 4-8-69, Cl. 260-475.
Finneburgh, Lewis H., Jr.; and Kranek, Robert C., said Kranek assor. to Finney Manufacturing Company. Fishbone type array with dipole spacing increasing towards the smaller end. 3,427,659, 2-11-69, Cl. 343-792.5
Finnegan, Francis, to Texas Instruments Incorporated. Temperature controller. 3,427,436, 2-11-69, Cl. 219-501.
Finnegan, Francis, to Texas Instruments, Incorporated. Liquid level control. 3,441,048, 4-29-69, Cl. 137-392.
Finnegan, Francis; and Flanagan, Charles D., to Texas Instruments Incorporated. Multizone temperature control. 3,432,643, 3-11-69, Cl. 219-501.
Finneman, George S.: *See*—
Sanders, Douglas O.; and Finneman, George S.,3,455,352.
Finneran, James A.; Mayo, Hays C.; Multhaup Robert H.; and Smith, Ronald B. Pullman Incorporated Process for the production of hydrogen-rich gas. 3,441,393, 4-29-69, Cl. 48-197.
Finneran, James Ambrose; and Mayo, Hayes Claude, to Pullman Incorporated. Process for carrying out cyclic synthesis reactions at elevated pressures. 3,484,197, 12-16-69, Cl. 23-199.
Finney, Frank E., to Shur-Lok Corporation. Basket nut assembly with latching retention of removable nut. 3,461,937, 8-19-69, Cl. 151-41.75
Finney Manufacturing Company: *See*—
Finneburgh, Lewis H., Jr.; and Kranek, Robert C., 3,427,659.
Finney, William J. Electrolytic methods and apparatus for storage of information. 3,482,217, 12-2-69, Cl. 340-173.
Finnieston, Alan R. Prosthetic leg having adjustable alignment means. 3,422,462, 1-21-69, Cl. 3-21.
Finocchiaro, Edward Joseph, to United States of America, Navy. High pressure pipe test plug. 3,483,894, 12-16-69, Cl. 138-90.
Finos, Luigino Marlo: *See*—
Caisley, Charles F.; and Finos, Luigino Marlo,3,424,441.
Finsterwalder, Klemens: *See*—
Finsterwalder, Ulrich; and Finsterwalder, Klemens,3,460,446.
Finsterwalder, Ulrich; and Finsterwalder, Klemens,3,477,080.
Finsterwalder, Kurt, to Schuler, L., G.m.b.H. Blank feeding device for presses. 3,448,604, 6-10-69, Cl. 72-346.
Finsterwalder, Kurt, to Schuler, L., GmbH. Coin press. 3,477,270, 11-11-69, Cl. 72-359.
Finsterwalder, Ulrich, to Dyckerhoff & Widmann Kommanditgesellschaft. Concrete highway formed in the fashion of a bridge and method of constructing same. 3,425,076, 2-4-69, Cl. 14-7.
Finsterwalder, Ulrich; and Finsterwalder, Klemens, to Dyckerhoff & Widmann Kommanditgesellschaft. Bridge type highway of reinforced or prestressed concrete. 3,460,446, 8-12-69, Cl. 94-1.
Finsterwalder, Ulrich; and Finsterwalder, Klemens, to Dyckerhoff & Widmann Kommanditgesellschaft. Elevated highway structures of prestressed concrete. 3,477,080, 11-11-69, Cl. 14-16.
Finton, Lawrence W.: *See*—
Sansom, Jack E.; Finton, Lawrence W.; and Paddock, Byron, Jr.,3,447,547.
Finucane, Thomas P.: *See*—
Block, Harry W.; Adams, Joan M.; and Finucane, Thomas P.,3,476,571.
Finucane, Thomas P., to General Foods Corporation. Process for preparing a quick-cooking pasta product. 3,482,993, 12-9-69, Cl. 99-85.
Rispoli, Joseph M.; Finucane, Thomas P.; and Sorge, Richard M.,3,473,931.
Finucane, Thomas W., to Eastman Kodak Company. Method and apparatus for determining amount of lubricant present on textile fibers. 3,459,506, 8-5-69, Cl. 23-230.
Finzi, Leo A.: *See*—
Johnson, Frederick O.; and Finzi, Leo A.,3,444,455.
Fiocco, Robert J.; Schumacher, Edward B.; and Sommer, Edward C., to Esso Research and Engineering Company. Fire protective covering for stored hydrocarbons. 3,454,180, 7-8-69, Cl. 220-26.
Fiore, John M.: *See*—
Buell, Heinz; Fiore, John M.; Marino, Louis S.; and Rubin, Jack,3,430,239.
Fiore, John M. Urethral catheter. 3,421,509, 1-14-69, Cl. 128-349.
Fiorelli, Arthur C.; and Miner, Leland P., to Monsanto Company. Fluid materials processing. 3,461,939, 8-19-69, Cl. 159-6.
Fiorentino, Anthony J.: *See*—
Gelting, Raymond L.; Fiorentino, Anthony J.; and Rogers, Arthur C.,3,476,609.
Fiorentino, Arthur A.: *See*—
Pecis, John G.; and Fiorentino, Arthur A.,3,465,776.
Fioretti, Armanda: *See*—
Palamidessi, Giorgio; Verini, Maria Antonietta; and Fioretti, Armanda,3,472,849.
Fiornascente, Nicola. Method for making mechanically grooved phonograph records. 3,431,333, 3-4-69, Cl. 264-107.
Fiquet, Georges P. Dome structure and method for building the same. 3,485,000, 12-23-69, Cl. 52-80.
Firestone John H.: *See*—
Anderson, Wilmer C.; and Firestone John H.,3,451,052.
Firestone, Raymond A.; Reinhold, Donald F.; and Sletzinger, Meyer, to Merck & Co., Inc.Process for conversion of D-azlactones to DL-α- acylamino-α-methyl-β-(3,4 disubstituted phenyl) propionitriles. 3,466,315, 9-9-69, Cl. 260-465.
Firestone, Stanley; and McCarthy, John, to United States of America, Army. Vapor deposition apparatus. 3,450,097, 6-17-69, Cl. 118-49.
Firestone Tire & Rubber Company, The: *See*—
Altier, Vincent A.; and Wells, Edward T., 3,444,121.
Bebb, Robert L.; and Kay, Edward L., 3,423,385.
Bebb, Robert L.; and Kay, Edward L., 3,458,591.
Brey, Wilhelm, 3,442,747.
Cole, Albert J., 3,459,593.
Crane, Grant; and Kay, Edward L., 3,456,030.
Edris, Floyd L., 3,440,089.
Eigenfeld, Edmund Gerald; and Vogel, Karl Stuart, 3,423,348.
Farhat, Kelly, 3,480,617.
Foster, Frederick C., 3,464,961.
Georges, Louis W., 3,423,230.
Gippin, Morris, 3,442,878.
Glymph, Eakin M.; and Dawson, Henry G., 3,445,414.
Halasa, Adel F., 3,429,891.
Halasa, Adel F.; and Hunt, Jerry D., 3,474,052.
Harr, George B., 3,434,336.
Hayes, Robert A., 3,461,107.
Hergenrother, William L., 3,479,319.
Kerns, Richard A., 3,440,086.
Kibler, Richard W., 3,459,251.
Kovacs, Roy F.; Lang, David L.; and Ligon, James T., 3,446,454.
Libengood, George B.; and Bowler, William W., 3,483,174.
Liska, John W., 3,422,873.
Markert, George B., 3,425,986.

Oberster, Arthur E.; and Smith, George E. P., Jr., 3,424,713.
Powers, Robert Pope, 3,486,547.
Preston, Marvin W.; and Ligon, James T., 3,481,009.
Tazewell, Joseph H., 3,459,702.

Firma Kugelfischer Georg Schafer & Co.: *See—*
Lang, Otto, 3,420,115.

Firma P.I.V. Antrieb Werner Reimers KG.: *See—*
Zahlaus, Helmut, 3,448,638.

Firma Rheinmetall G.m.b.H.: *See—*
Bartels, Erich, 3,420,139.

Firmenich & Cie: *See—*
Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max, 3,470,241.
Willhalm, Bruno; and Thomas, Alan Francis, 3,455,702.

First and Merchants National Bank: *See—*
Ryan, James Francis, Jr.,3,438,192.

First Foto, Inc.: *See—*
Bley, Frederick O.; and Strauss, Martin, 3,460,891.

First National Bank: *See—*
Juno, Alvin R., 3,449,780.

First Western Bank and Trust Company: *See—*
Davis, Paul K., 3,458,103.

Firth, David. Flexible coupling. 3,486,348, 12-30-69, Cl. 64-11.

Firth, Donald: *See—*
Buckley, Douglas; Roebuck, Alec; and Firth, Donald,3,471,311.

Firth, Donald; Cunningham, Sinclair Upton; and McIntyre, Ronald Graham, to National Research Development Corporation. Linear hydraulic motors. 3,473,440, 10-21-69, Cl. 91-176.

Firth, Donald; Cunningham, Sinclair; and Hair, Hugh. Machine tools. 3,456,533, 7-22-69, Cl. 82-2.

Firth, Robert L.: *See—*
Rosaen, Nils O.; Firth, Robert L.; and Brown, Carl A.,3,486,622.

FISBA, Optische Prazisions-Instruments AG: *See—*
Strietzel, Waldemar, 3,475,082.

Fischbach, Alfred. Mold closing means for injection mold machine. 3,449,795, 6-17-69, Cl. 18-30.

Fischbach, Alfred. Injection molding machine. 3,479,695, 11-25-69, Cl. 18-30.

Fischback, Bryant C.: *See—*
Blair, Etcyl H.; and Fischback, Bryant C.,3,455,938.

Fischback, Bryant C., to Dow Chemical Company, The. 3,5,6-Trichloro-4-[3-($\alpha,\alpha,\alpha,\alpha',\alpha',\alpha'$-hexafluoro-3,5-xylyl)ureido] picolinic acid and the corresponding amide derivative. 3,426,031, 2-4-69, Cl. 260-295.

Fischback, Bryant C.; and Harris, Guy H., to Dow Chemical Company, The. Hexahaloxylidides. 3,457,310, 7-22-69, Cl. 260-562.

Fischbein, Harold: *See—*
Fischbein, Irving George; and Fischbein, Harold,3,478,709.

Fischbein, Irving George; and Fischbein, Harold. Sewing machine. 3,478,709, 11-18-69, Cl. 112-256.

Fischell, Robert E., to United States of America, Navy. Satellite attitude detection system including cosine and spinsate detectors. 3,424,907, 1-28-69, Cl. 250-203.

Fischell, Robert E.: *See—*
Mobley, Frederick F.; and Fischell, Robert E.,3,456,900.

Fischer & Porter Co.: *See—*
Hermanns, Henry, 3,479,873.
Kobayashi, Tamotsu; and Asai, Isao, 3,483,476.
Levesque, Peter; and Haeflein, William K., 3,478,830.
Michener, Robert; and Miller, Edward A., 3,455,162.
Morrow, James J., 3,449,233.
Peters, Harry L.; Nessim, David J.; Morrow, James J.; and Hilton, Garrett H., Jr., 3,471,391.
Schmoock, Roy L.; and Asai, Isao, 3,445,643.
Schmoock, Roy F.; Guenther, Peter W.; and Levesque, Peter S., 3,484,593.
Wapner, Joseph; Nines, Eugene; and Asai, Isao, 3,448,408.

Fischer, Adolf: *See—*
Reicheneder, Franz; and Fischer, Adolf,3,483,201.
Reicheneder, Franz; Dury, Karl; and Fischer, Adolf,3,471,493.

Fischer, Albrecht G.: *See—*
Weisberg, Leonard R.; and Fischer, Albrecht G.,3,459,603.

Fischer, Alvin M.; and Warmkessel, Harry J., to Mack Trucks, Inc. Air spring suspension for vehicles. 3,442,502, 5-6-69, Cl. 267-65.

Fischer, Armin O.: *See—*
Dodsworth, James W.; and Fischer, Armin O.,3,460,665.

Fischer, Armin O., to Litton Business Systems, Inc. Actuator holding means. 3,477,638, 11-11-69, Cl. 235-60.

Fischer, Artur. Divided hub. 3,438,276, 4-15-69, Cl. 74-230.4

Fischer, Artur. Gearing arrangement. 3,449,979, 6-17-69, Cl. 74-421.

Fischer, Artur. Mounting arrangement. 3,450,427, 6-17-69, Cl. 287-189.36

Fischer, Artur. Toy construction kit with selective rotatable and non-rotatable connection of components. 3,451,158, 6-24-69, Cl. 46-16.

Fischer, Artur. Structural element. 3,456,413, 7-22-69, Cl. 52-591.

Fischer, Artur. Structural element. 3,456,414, 7-22-69, Cl. 52-726.

Fischer, Artur. Track for toy railways or the like. 3,463,393, 8-26-69, Cl. 238-10.

Fischer, Artur. Structural element for a toy assembly kit. 3,464,147, 9-2-69, Cl. 46-26.

Fischer, Artur. Connecting arrangement. 3,471,183, 10-7-69, Cl. 287-189.36

Fischer, Artur. Motion transmitting arrangement combined with toy construction kit. 3,475,849, 11-4-69, Cl. 46-16.

Fischer, Artur. Toy construction kit. 3,479,762, 11-25-69, Cl. 46-11.

Fischer, Artur. Assembly kit having dovetail connection with reduced contact area. 3,479,763, 11-25-69, Cl. 46-25.

Fischer, Artur. Structural elements including rack, blocks, shafts, and endless resilient means. 3,484,982, 12-23-69, Cl. 46-16.

Fischer, Artur. Power unit for toy building kit. 3,484,983, 12-23-69, Cl. 46-23.

Fischer, Artur. Toy assembly-kit with electrical components. 3,484,984, 12-23-69, Cl. 46-25.

Fischer, Artur. Toy construction kit. 3,486,268, 12-30-69, Cl. 46-16.

Fischer, Artur. Rotary element. 3,486,269, 12-30-69, Cl. 46-17.

Fischer, August C., Jr.: *See—*
McElmury, Donald E.; and Fischer, August C., Jr.,3,487,033.

Fischer, Charles Frederick: *See—*
Auston, Amory Earl; and Fischer, Charles Frederick,3,481,880.

Fischer, Charles Frederick, to Colgate-Palmolive Company. Mixing apparatus. 3,446,485, 5-27-69, Cl. 259-6.

Fischer, Charles Frederick, to Colgate-Palmolive Company. Process for production of detergent tablets. 3,451,928, 6-24-69, Cl. 252-135.

Fischer, Christopher L.; and Haughton, Kenneth E., to International Business Machines Corporation. Vacuum entry mechanism. 3,428,197, 2-18-69, Cl. 214-17.

Fischer, Claus: *See—*
Erdmann, Kurt; Nerlick, Lydia, curatrix; Fischer, Claus; Friedenrich, Heinrich; and Bauer, Helmut,3,481,255.

Fischer, Donald A.; and Nadensek, Edward H., to Republic Steel Corporation. Lock nut. 3,481,379, 12-2-69, Cl. 151-21.

Fischer, Donald G.; and Jones, Clifford W., to Square D Company. Lay-in duct having side-bracing and wire- retaining means. 3,433,270, 3-18-69, Cl. 138-162.

Fischer, Edgar: *See—*
Cherdron, Harald; Leugering, Hans Joachim; Fischer, Edgar; and Asmus, Klaus-Dieter,3,467,625.
Hafner, Karl-Heinz; and Fischer, Edgar,3,448,081.
Hafner, Karl-Heinz; and Fischer, Edgar,3,454,528.
Hafner, Karl-Heinz; and Fischer, Edgar,3,457,220.
Hafner, Karl-Heinz; Fischer, Edgar; and Mebwarb, Gunther,3,442,860.
Kampe, Klaus-Dieter; and Fischer, Edgar,3,454,683.
Kampe, Klaus-Dieter; and Fischer, Edgar,3,454,684.

Fischer, Edgar; and Schott, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Copolymers of trioxane cyclic ethers, and bifunctional epoxides and a process for their manufacture. 3,424,725, 1-28-69, Cl. 260-73.

Fischer, Edgar; and Schott, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of copolymers trioxane and cyclic ethers with dioxolanyl-4-methyl-alkyl formals. 3,453,239, 7-1-69, Cl. 260-67.

Fischer, Edgar; and Schott, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polymerization of trioxane with polyacetals. 3,457,228, 7-22-69, Cl. 260-67.

Fischer, Edgar; and Schott, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Copolymers of trioxane, cyclic ethers and trifunctional compounds and process for their manufacture. 3,457,229, 7-22-69, Cl. 260-67.

Fischer, Edgar; Schott, Claus; and Asmus, Klaus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing copolymers of trioxane, cyclic ethers and alkyl glycidyl formals. 3,453,238, 7-1-69, Cl. 260-67.
Weissermel, Klaus; Fischer, Edgar; and Schott, Claus,3,435,006.
Weissermel, Klaus; Hafner, Karl-Heinz; Gutweiler, Klemens; and Fischer, Edgar,3,442,865.

Fischer, Edward M.; and Krakauer, Edwin G., to Kay Manufacturing Corp. Means and method for separating and transferring nested coil springs. 3,441,064, 4-29-69, Cl. 140-3.

Fischer, Elias: *See—*
Knaggs, Edward A.; and Fischer, Elias,3,433,746.
Knaggs, Edward A.; Nussbaum, Marvin L.; and Fischer, Elias,3,433,745.

Fischer, Ernest W., Jr.: *See—*
Price, Robert J.; and Fischer, Ernest W., Jr.,3,475,748.

Fischer, Francis H. Cathode for use in recovery of nonferrous metals. 3,424,668, 1-28-69, Cl. 204-281.

Fischer, Franz: *See—*
Allison, Robert Corwin; Fischer, Franz; and Hausermann, Heinrich,3,479,349.

Fischer, Franz; and Bettschen, Erwin, to Geigy Chemical Corporation. Optical brightening of paper. 3,475,190, 10-28-69, Cl. 106-210.

Fischer, Fritz, to Miller, Richard. Machine for buckle and tape assemblies. 3,422,999, 1-21-69, Cl. 223-49.

Fischer, Georg, AG Brugg: *See—*
Hunziker, Ernst, 3,440,127.
Hunziker, Ernst, 3,446,336.
Fischer, Georg, Aktiengesellschaft: *See—*
Schmid, Albert, 3,466,954.
Fischer, George Limited: *See—*
Senn, Rudolph G., 3,470,922.
Fischer, H. G., & Co.: *See—*
Walberg, Arvid C., 3,463,121.
Fischer, Hannes; and Stein, Werner, to Henkel & Cie G.m.b.H. Process for the continuous preparation of addition products of ethylene oxide. 3,436,426, 4-1-69, Cl. 260-613..
Fischer, Harry C., to Wiegand, Edwin L., Company. Method of making rapid heat dissipating electric heaters. 3,468,022, 9-23-69, Cl. 29-611.
Fischer, Harry C., to Wiegand, Edwin L., Company. Electric baseboard heaters. 3,470,351, 9-30-69, Cl. 219-366.
Fischer, Harry F., Jr., to Zeddco Co., Inc. Sheet-flanging machine. 3,462,989, 8-26-69, Cl. 72-178.
Fischer, Heinz G.; and Schroeder, James C., to Westinghouse Electric Corporation. Electrical transformer. 3,449,633, 6-10-69, Cl. 317-14.
Fischer, Heinz-Jurgen; and Schmidt, Walter. Electronic device for automatic indication, registration and forecast of local and distant thunderstorms. 3,465,245, 9-2-69, Cl. 324-72.
Fischer, Hellmuth Georg; and La Due, Augustus W., to Owens-Illinois, Inc. Process for glass strengthening. 3,460,927, 8-12-69, Cl. 65-30.
Fischer, Hellmuth G., to Owens-Illinois, Inc. High expansion sealing glass and composite article. 3,449,203, 6-10-69, Cl. 161-196.
Fischer, Hellmuth G.; and LaDue, Augustus W., to Owens-Illinois, Inc. Methods of strengthening inorganic articles by ion exchange. 3,481,726, 12-2-69, Cl. 65-30.
Fischer, Helmut: *See—*
Schabert, Robert; and Fischer, Helmut,3,450,809.
Fischer, Herbert C., Jr.: *See—*
Fischer, Herbert C.; and Fischer, Herbert C., Jr.,3,431,687.
Fischer, Herbert C.; and Fischer, Herbert C., Jr. Reinforced article. 3,431,687, 3-11-69, Cl. 51-206.
Fischer, Hermann, to Maschinenfabrik Augsburg-Nurnberg AG. Register maintaining device for multi-color sheet-fed rotary printing presses. 3,477,370, 11-11-69, Cl. 101-183.
Fischer, Howard E.; and Ward, Harold R., to Sperry Rand Corporation. Pumping chamber decompression. 3,457,873, 7-29-69, Cl. 103-162.
Fischer, Howard R., to Chicago Pneumatic Tool Company. Duct rodder having collapsible traction heads. 3,462,124, 8-19-69, Cl. 254-134.6
Fischer, Israel Lou; and Lee, Walter W., to Bendix Corporation, The. Digital data storage device including means for delivering the stored data at a predetermined rate. 3,444,537, 5-13-69, Cl. 340-174.
Fischer, Jack N.; and Manning, William J., to Bluegrass Engineering & Mfg., Inc. Horse walker. 3,424,132, 1-28-69, Cl. 119-29.
Fischer, James L.; and Hostetler, Willard E., to Bell Telephone Laboratories, Incorporated. Multifrequency signal generator. 3,447,096, 5-27-69, Cl. 331-49.
Fischer, James L.; and Strommen, Lawrence A., to Bell Telephone Laboratories, Incorporated. Telephone repertory dialer. 3,479,469, 11-18-69, Cl. 179-90.
Fischer, Joachim W., to Lear Siegler, Inc. Meridian-seeking gyroscope employing a simultaneously rotating and vibrating base. 3,448,623, 6-10-69, Cl. 74-5.
Fischer, John E.: *See—*
Hanson, Rudolph A.; and Fischer, John E.,3,445,992.
Hanson, Rudolph A.; Ziegler, Edward J.; and Fischer, John E.,3,466,855.
Fischer, John L.; and Mack, Robert J., to Kendall Company, The. Self-adhesive dressing. 3,438,371, 4-15-69, Cl. 128-156.
Fischer, Jorg: *See—*
Mouissie, Bob; and Fischer, Jorg,3,421,707.
Fischer, Josef; Krautwald, Herbert; and Hubner, Wolfgang, to Siemens Aktiengesellschaft. Electromagnetic relay having a unitary structure forming respectively the core and the yoke. 3,482,193, 12-2-69, Cl. 335-220.
Fischer, Josef; Krautwald, Herbert; and Schedele, Helmut, to Siemens Aktiengesellschaft. Supporting and contacting structure, especially for relays, constructed for mechanized and adjust- ment-free assembly thereof. 3,439,313, 4-15-69, Cl. 339-157.
Fischer, Josef; and Muller, Erwin, to Siemens Aktiengesellschaft. Multiple-part spool, especially for relays. 3,421,127, 1-7-69, Cl. 336-208.
Fischer, Joseff; Krautwald, Herber; and Schedele, Helmut, to Siemens Aktiengesellschaft. Adjustment-free preassembled contact unit for multiple contact relays which may be completely prefabricated by mechanical operations. 3,420,973, 1-7-69, Cl. 200-166.
Fischer, Joseph: *See—*
Ridgeway, Lee R.; and Fischer, Joseph,3,470,122.
Ridgeway, Lee R.; and Fischer, Joseph,3,474,058.
Fischer, Karl, Apparate- und Rohrleitungsbau: *See—*
Rothert, Horst, 3,468,849.
Fischer, Karl Apparate-u. Rohrleitungsbau: *See—*
Schumacher, Rolf, 3,461,171.
Fischer, Kurt: *See—*
Frohlich, Walter; Oberrauch, Hans; and Fischer, Kurt,3,444,205.
Fischer, Larry M.: *See—*
Cootey, Thomas A.; and Fischer, Larry M.,3,478,532.
Fischer, Lee J., deceased (by Fischer, Helen M., executrix); Becker, Edward R.; Kutney, John T., and; and McHugh, Donald P., to General Electric Company. Nozzle structure. 3,442,471, 5-6-69, Cl. 244-53.
Fischer, Manfred; Kotzschmar, Arnold; and Schwenk, Ulrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of borate esters of long chain aliphatic alcohols. 3,454,617, 7-8-69, Cl. 260-462.
Fischer, Max; Scheuermann, Hans; Klaassen, Hermann; and Lenz, Johann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Sowing or planting waste ground. 3,482,353, 12-9-69, Cl. 47-9.
Fischer, Murry, to Inertia Switch, Inc. Inertia switch with magnetic shunting. 3,459,911, 8-5-69, Cl. 200-61.45
Fischer, Oskar; and Golombek, Horst, to Voigtlander A.G. Film magazine and camera therefor. 3,481,261, 12-2-69, Cl. 95-31.
Fischer, Peter; and Kallert, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of high molecular weight polyurethane elastomers by the millable gum method. 3,475,378, 10-28-69, Cl. 260-75.
Fischer, Raymond G.: *See—*
Bowen, Donald R.; and Fischer, Raymond G.,3,429,179.
Fischer, Richard L., to Walker Manufacturing Company. Silencer with angled tuning tube leading to Helmholtz resonator. 3,434,565, 3-25-69, Cl. 181-48.
Fischer, Robert F., to Bell Telephone Laboratories, Incorporated. Magnetic wall domain shift register. 3,439,352, 4-15-69, Cl. 340-174.
Fischer, Robert L., to Cities Service Oil Company. Lubricating compositions. 3,428,565, 2-18-69, Cl. 252-59.
Fischer, Ursel: *See—*
Nagel, Friedrich,3,430,401.
Fischer, Valentine J.: *See—*
Feldman, Jacob R.; Fischer, Valentine J.; Berkowitz, Lewis M.; and Hammell, Matthew,3,441,417.
Fischer, Wilfried; and Pini, Giancarlo, to Aktiengesellschaft Brown, Boveri & Cie. Fuel cell battery including both immobilized and circulating electrolyte fuel cells. 3,484,294, 12-16-69, Cl. 136-86.
Fischer, Wilhelm Anton, to Gesellschaft zur Forderung der Eisenhuttentechnik m.b.H. Temperature measurements. 3,457,785, 7-29-69, Cl. 73-359.
Fischer, Wilhelm Anton, to Gesellschaft zur Forderung der Eisenhuttentechnik m.b.H. Measurement of the temperature of melts in converter vessels. 3,466,929, 9-16-69, Cl. 73-343.
Fischer, Wilhelm Anton, to Gesellschaft zur Forderung der Eisenhuttentechnik m.b.H. Apparatus for determining the oxygen content of molten metal. 3,468,780, 9-23-69, Cl. 204-195.
Fischer, William G.; Norgord, John D.; and Wilson, Jack, to Intermountain Research and Development Corporation. Continuous method for mining trona. 3,455,606, 7-15-69, Cl. 299-11.
Fischer, Willi: *See—*
Habendorff, Richard; and Fischer, Willi,3,434,935.
Fischer, Winfried: *See—*
Irion, Reinhard; Kratt, Kurt Wilhelm; and Fischer, Winfried,3,447,744.
Fischetti, Ignazio: *See—*
Reiner, Alberto, 3,449,345.
Fischl, Robert A., to Philip Morris Incorporated. Angular surgical blade holder. 3,486,229, 12-30-69, Cl. 30-339.
Fischler, Daniel A., to Emsig Manufacturing Corporation. Process for making plastic articles having decorative surface effects. 3,439,077, 4-15-69, Cl. 264-73.
Fischler, Daniel A., to Emsig Manufacturing Corporation. Method of forming pearlescent articles of patterned orientation. 3,459,843, 8-5-69, Cl. 264-108.
Fish, Aron Yakovlevich: *See—*
Akunts, Karlen Arminakovich; Kartsev, Alexandr Efimovich; Elchaninov, Ivan Nikiforovich; Tarnopolsky, Jury Matveevich; and Fish, Aron Yakovlevich,3,457,446.
Fish, Floyd Hamilton, Jr.; and Stine, Cawley Richard, to Du Pont de Nemours, E. I., and Company. Low-density, web-like cushioning structure of cellular filamentary material. 3,485,711, 12-23-69, Cl. 161-150.
Fish, Francis Edwin; and Cooper, Dennis Frederick. Method and apparatus for cutting and edge-sealing thermoplastic woven fabrics. 3,486,957, 12-30-69, Cl. 156-88.
Fish, George L. Proportioning device. 3,428,083, 2-18-69, Cl. 137-590.
Fish, John J., to Western Petrochemical Corporation, The. Process for preparing degraded polyethylene. 3,444,155, 5-13-69, Cl. 260-94.9

Fish, Richard H., to United States Borax & Chemical Corporation. Organotin alicyclic esters. 3,422,127, 1-14-69, Cl. 260-429.7
Fish, Richard H., to United States Borax & Chemical Corporation. Organotin chlorophenyl acetates. 3,458,549, 7-29-69, Cl. 260-429.7
Fish, Richard H., to United States Borax & Chemical Corporation. Alkyleneiminoquinazoline-2,4-diones. 3,462,435, 8-19-69, Cl. 260-256.4
Fishaber, Marvin H.; and Hickerson, John D., to Dow Chemical Company, The. Method and apparatus for etching curved printing plates. 3,473,984, 10-21-69, Cl. 156-14.
Fishaw, Raymond J., to Jacobsen Manufacturing Company. Flail knife assembly. 3,465,507, 9-9-69, Cl. 56-294.
Fishbaugh, Byron L.: *See—*
Caillet, Eugene; and Fishbaugh, Byron L.,3,465,963.
Fishbaugh, Byron L., to Goodyear Tire & Rubber Company, The. Shock absorber. 3,480,268, 11-25-69, Cl. 267-1.
Fishbein, Bernard, to Princeton Laboratories, Inc. Method of stimulating a host defense mechanism with an actinovaccine. 3,450,815, 6-17-69, Cl. 424-88.
Fishbein, Leon: *See—*
Heiberger, Charles A.; and Fishbein, Leon,3,468,840.
Heiberger, Charles A.; and Fishbein, Leon,3,468,858.
Fishbein, William; and Rittenbach, Otto E., to United States of America, Army. Doppler radar with clutter controlled filter channel. 3,465,336, 9-2-69, Cl. 343-7.7
Fishburne, Francis B.; and Richardson, Berkley Lee. Up-packing twin press. 3,425,465, 2-4-69, Cl. 141-80.
Fishburne, Francis B.; and Waldrop, James J. Cable haulage systems. 3,450,059, 6-17-69, Cl. 104-176.
Fishel, Norman A., to Universal Oil Products Company. Hydrogenation of an aromatic compound with a catalyst containing a group VIII metal and a subfluoride. 3,426,090, 2-4-69, Cl. 260-667.
Fishel, Norman A., to Universal Oil Products Company. Isomerization process. 3,428,704, 2-18-69, Cl. 260-683.2
Fishel, Norman A., to Universal Oil Products Company. Method of catalyst manufacture. 3,477,964, 11-11-69, Cl. 252-442.
Fishel, Norman A., to Universal Oil Products Company. Method of catalyst manufacture. 3,477,965, 11-11-69, Cl. 252-442.
Fisher, Alan Robert. Curved finger boards for stringed musical instruments. 3,478,631, 11-18-69, Cl. 84-293.
Fisher, Alan R., to Ford Motor Company. Multiple ratio hydrokinetic torque converter transmission with split-torque lockup clutches in the converter housing. 3,463,033, 8-26-69, Cl. 74-688.
Fisher, Alan R., to Ford Motor Company. Torque sensitive releasable servo for a friction torque establishing device. 3,470,770, 10-7-69, Cl. 74-751.
Fisher, Allen B. Adjustable surgical splint. 3,439,672, 4-22-69, Cl. 128-88.
Fisher, Anna G.: *See—*
Fisher, George F.,3,442,513.
Fisher, Anthony Charles. Apparatus for flushing cisterns. 3,461,465, 8-19-69, Cl. 4-58.
Fisher Berkely Corporation: *See—*
Pugatch, David, 3,478,176.
Fisher, Charles B.: *See—*
Brame, Frank H.; and Fisher, Charles B.,3,433,439.
Fisher, Charles Donald, to American Can Company. Electrical discharge coating of surfaces with acetylene-oxygen polymers. 3,457,156, 7-22-69, Cl. 204-168.
Fisher, Charles Frank: *See—*
Duncan, William Joseph; Fisher, Charles Frank; Moye, Frank Houston; and Piercy, Samuel Allen,3,457,341.
Fisher, Charles H.; Knoepfler, Nestor B.; Kingsbery, Emery C.; Cheatham, Robert J.; and Vix, Henry L. E., to United States of America, Agriculture. Abrasion resistant wash-wear cellulosic products. 3,483,570, 12-16-69, Cl. 2-243.
Fisher, Charles P. Ribbon microphone. 3,435,143, 3-25-69, Cl. 179-1.
Fisher, Chester Donald, to Sprout Waldron & Company, Inc. Refiner feeder. 3,441,227, 4-29-69, Cl. 241-247.
Fisher, Colin Hordley, to Millard Brothers Limited. Air gun trigger and safety device. 3,464,399, 9-2-69, Cl. 124-37.
Fisher, Daniel V., Jr.: *See—*
Dudzik, Chester J.; Fisher, Daniel V., Jr.; and Parkins, Guy E.,3,422,617.
Fisher, Denys, to Denys Fisher Group Limited. Drawing and design apparatus or instrument. 3,465,445, 9-9-69, Cl. 33-27.
Fisher, Donald C.: *See—*
Cannady, Samuel J.; Fisher, Donald C.; and Hamilton, Vern E.,3,449,053.
Fisher, Earl H. Hydraulic vibratory hammer for driving and or extracting piles and the like. 3,425,499, 2-4-69, Cl. 173-125.
Fisher, Edward I., to Bostitch, Incorporated. Pneumatic fastener driving apparatus. 3,467,294, 9-16-69, Cl. 227-8.
Fisher, Francis J.: *See—*
Eskridge, Brewster B.; Fisher, Francis J.; Moore, Jackson A.; and Rhash, Dewaine A.,3,461,521.
Fisher, Frank H.: *See—*
Hanley, William G.; and Fisher, Frank H.,3,441,109.
Fisher, Franklin A.: *See—*
Brustle, Heinz H.; and Fisher, Franklin A.,3,430,136.
Fisher, Franklin G.; and Bollinger, Luther Lewis, Sr., to Reading Company. Journal box lubricator for railway cars. 3,425,513, 2-4-69, Cl. 184-2.
Fisher, Franklin G.; and Bollinger, Luther Lewis, Sr., to Reading Company. Journal centering guide of plastic for a railway journal. 3,449,026, 6-10-69, Cl. 308-40.
Fisher, Gene J.: *See—*
Aguilo, Adolfo; Fisher, Gene J.; and Wheeler, Edward N.,3,465,032.
Dirks, Jerald Edson; and Fisher, Gene Jordan,3,432,543.
Fisher, Gene Jordan; and Dirks, Jerald Edson, to Celanese Corporation. Removal of methyl and ethyl acetate from vinyl acetate. 3,458,406, 7-29-69, Cl. 203-44.
Fisher, George A., to United Aircraft Corporation. Fluid mechanical hysteretic device. 3,477,344, 11-11-69, Cl. 91-52.
Fisher, George F., deceased0 (by Fisher, Anna G.; executrix), to Fisher, Harvey George. Golf training apparatus. 3,442,513, 5-6-69, Cl. 273-188.
Fisher, George I.: *See—*
Goldberg, Ira I; and Fisher, George I.,3,447,372.
Fisher, Gerald E.; Noble, Thomas F.; and Williams, Virgel E., to Sperry Rand Corporation. Ship's motion predictor. 3,428,788, 2-18-69, Cl. 235-150.2
Fisher Governor Company: *See—*
Ainsworth, David J.; and Bovee, Loren L., 3,446,477.
Brown, Lewis E., 3,428,080.
Buresh, Tom K.; and Zeigler, Ralph W., 3,456,674.
Cho, Chun Hyung, 3,485,256.
Hemphill, James E., 3,485,476.
Lloyd, Sheldon G., 3,456,669.
Roberts, Bob R.; and Etter, William A., 3,427,930.
Ytzen, Glenn R.; and Hutchens, Wilbur D., 3,456,916.
Fisher, Harold Francis, to Ark-Les Switch Corporation. Embossed male tab for use with quick connect terminals. 3,422,395, 1-14-69, Cl. 339-258.
Fisher, Harvey George: *See—*
Fisher, George F., 3,442,513.
Fisher, Henry B., to Phillips Petroleum Company. Consolidation of formations. 3,437,144, 4-8-69, Cl. 166-25.
Fisher, Jack M.; and Conkle, Carl J., to Borg-Warner Corporation. Transmission shift control mechanism. 3,444,752, 5-20-69, Cl. 74-477.
Fisher, James I., to Huyck Corporation. Reinforced metal fiber composites. 3,437,457, 4-8-69, Cl. 29-182.2
Fisher, James W.: *See—*
Bernotas, Ralph J.; Fisher, James W.; and Scott, Robert H.,3,466,765.
Fisher, John F. Villiers: *See—*
Bocckino, Harry G.; Dillon, Thomas J.; and Fisher, John F. Villiers,3,450,804.
Fisher, John F.; and Zeller, Burton S., to Clark Equipment Company. Transmission. 3,465,609, 9-9-69, Cl. 74-360.
Fisher, John G.; Wallace, David J.; and Straley, James M., to Eastman Kodak Company. Process for the preparation of methine compounds containing a pyridinium or quinolinium group. 3,424,756, 1-28-69, Cl. 260-294.9
Fisher, John G.: *See—*
Straley, James M.; and Fisher, John G.,3,481,918.
Fisher, John M., to Goodrich, B. F., Company, The. Inflatable escape chute. 3,473,641, 10-21-69, Cl. 193-25.
Fisher, John M., to Goodrich, B. F., Company, The. Inflatable ramp. 3,476,338, 11-4-69, Cl. 244-137.
Fisher, John Stanley: *See—*
Blackman, Dennis G.; and Fisher, John Stanley,3,446,384.
Fisher, John Stanley: *See—*
Blackman, Dennis G.; and Fisher, John Stanley,3,446,384.
Fisher, Joseph D.: *See—*
Kaiser, Emil; and Fisher, Joseph D.,3,461,212.
Fisher, Joseph T., to Eastman Kodak Company. Processes for cleaning apparatus used in processing poly(ethylene-terephthalate). 3,485,670, 12-23-69, Cl. 134-5.
Fisher, Joseph V., to Semi-Elements, Inc. Manufacture of materials capable of amplifying wave energy. 3,480,552, 11-25-69, Cl. 252-62.51
Fisher, Julian V., to Illinois Tool Works Inc. Plastic fastener and cable support. 3,423,055, 1-21-69, Cl. 248-73.
Fisher, Julian V., to Illinois Tool Works, Inc. Plastic fastener. 3,443,783, 5-13-69, Cl. 248-220.5
Fisher, Julian V., to Illinois Tool Works Inc. Cable strap. 3,463,427, 8-26-69, Cl. 248-68.
Fisher, Julian V., to Illinois Tool Works Inc. Sealing device. 3,469,493, 9-30-69, Cl. 85-72.
Fisher, Leo, to Goodrich, B. F., Company, The. Heat-sealable polyurethane foam containing oil furnace carbon black and laminates. 3,486,967, 12-30-69, Cl. 161-160.
Fisher, Mahlon B., to Sylvania Electric Products, Inc. Crossfield photoelectron multiplier tube having channeled secondary emissive dynodes. 3,431,420, 3-4-69, Cl. 250-207.

Fisher, Manuel, to Perfect Fit Industries Inc. Mattress cover. 3,436,771, 4-8-69, Cl. 5-334.
Fisher, Mark E., to General Motors Corporation. Transmission. 3,425,299, 2-4-69, Cl. 74-752.
Fisher, Mark E.: *See—*
Tuck, Robert M.; and Fisher, Mark E.,3,433,096.
Fisher, Michael S., to Radio Corporation of America. Signal translating system. 3,421,098, 1-7-69, Cl. 330-15.
Fisher, Oscar. Film processing apparatus. 3,472,144, 10-14-69, Cl. 95-94.
Fisher, Paul C.; Schub, Herman; and Kennedy, Roger A., said Schub and said Kennedy assor. to said Fisher. Pressurized marking instrument. 3,425,779, 2-4-69, Cl. 401-190.
Fisher, Peter F. Somersault vehicle. 3,464,718, 9-2-69, Cl. 280-206.
Fisher, Philip A.: *See—*
Ziegler, Wolfram H.O.; and Fisher, Philip A.,3,469,974.
Fisher Radio Corporation: *See—*
Heinz, Harro K.; and Frei, Karl, 3,431,503.
Mergner, Fritz L., 3,443,038.
Fisher, Reed E.: *See—*
Barber, Mark R.; and Fisher, Reed E.,3,460,122.
Fisher, Reed E., to Bell Telephone Laboratories, Incorporated. High speed sample and hold circuit. 3,479,528, 11-18-69, Cl. 307-231.
Fisher, Richard A.: *See—*
Bronstien, Edward L., Jr.; Akerson, David W.; Gaffney, Bernard J.; and Fisher, Richard A.,3,429,767.
Bronstien, Edward L., Jr.; Fisher, Richard A.; and Gold, Gorge,3,449,190.
Fisher, Richard Gordon, to Du Pont de Nemours, E. I., and Company. Apparatus for the manufacture of plastic tube heat exchanger units. 3,459,622, 8-5-69, Cl. 156-423.
Fisher, Richard L., Jr.; and McLain, James L., to Combustion Engineering, Inc. Welding process involving post weld formation of molten pool. 3,475,813, 11-4-69, Cl. 29-480.
Fisher, Richard R.; Kifor, Harry T.; and Tschudy, Donald B., to Goodyear Aerospace Corporation. Method for forming thread connected dual wall inflatable fabric into compound curvatures. 3,442,996, 5-6-69, Cl. 264-89.
Fisher, Robert C. Seatbelt buckle. 3,449,800, 6-17-69, Cl. 24-77.
Fisher, Robert C. Base fo seat belt retractor. 3,456,896, 7-22-69, Cl. 242-107.
Fisher, Robert C. Seat belt buckle. 3,465,393, 9-9-69, Cl. 24-230.
Fisher, Robert C. Seat belt buckle. 3,483,599, 12-16-69, Cl. 24-230.
Fisher, Robert Earl: *See—*
Jacobs, Louis J.; Klaudinyi, Bela; and Fisher, Robert Earl,3,426,834.
Fisher, Robert E.; Kofman, Rijkent W.; Reichert, Ernest D.; and Visser, Reinold H., to Up-Right, Inc. Method for making a joint for hardened aluminum tubing. 3,432,916, 3-18-69, Cl. 29-516.
Johnson, Wallace J. S.; and Fisher, Robert E.,3,454,131.
Johnson, Wallace J. S.; and Fisher, Robert E.,3,460,327.
Johnson, Wallace J. S.; and Fisher, Robert E.,3,469,343.
Johnson, Wallace J. S.; Fisher, Robert E.; and Claxton, Gerald L.,3,420,046.
Fisher, Robert, to Chesebrough-Pond's Inc. Dispenser for cotton swabs. 3,478,923, 11-18-69, Cl. 221-70.
Fisher, Sallie A., of 3/4 to Robinette Research Laboratories, Inc., and 1/4 to Techniservice Corporation. Process of removing dyestuff from foam backing. 3,432,251, 3-11-69, Cl. 8-102.
Fisher, Sandor. Detachable shield for paint roller. 3,457,582, 7-29-69, Cl. 15-248.
Fisher Scientific Company: *See—*
Natelson, Samuel, 3,450,624.
Fisher, Stanton E. Corrugated animal toy. 3,441,001, 4-29-69, Cl. 119-29.
Fisher, Wilfred M. Refuse burner apparatus. 3,460,490, 8-12-69, Cl. 110-18.
Fisher, William F., to Caterpillar Tractor Company. Adjustable slide bearing for motor grader moldboard supports. 3,463,243, 8-26-69, Cl. 172-781.
Fisher, William F.; Hughes, James L.; and McCarthy, Thomas F., to Caterpillar Tractor Company. Adjustable slide bearings for motor grader moldboard mounting. 3,465,829, 9-9-69, Cl. 172-743.
Fisher, William Thoby, to Bristol Aerojet Limited. Rocket launching. 3,460,430, 8-12-69, Cl. 89-1.818
Fisher, William W., to Rotron Manufacturing Company, Inc. Inverter starting circuit. 3,444,481, 5-13-69, Cl. 331-113.
Fisher-Price Toys, Inc.: *See—*
Crawford, Ralph W., 3,482,345.
Ostrander, Robert K., Jr., 3,421,257.
Fishery Products Limited: *See—*
Mayo, Fletcher, 3,464,833.
Fishman, Milton: *See—*
Bowen, Glen L.; Fishman, Milton; McVay, John H.; and Francis, Albert W.,3,439,959.
Fishman, Sherman S. Method and apparatus for ultrasonic sterilization. 3,481,687, 12-2-69, Cl. 21-54.
Fisholow Products Limited: *See—*
Orwin, Olaf J. B., 3,424,112.
Orwin, Olaf J. B.; and Fortune, David J., 3,429,407.
Fishwick, Brian Ribbons; and Liu, Andrew Tze-Chiu, to Imperial Chemical Industries Limited. Mono azo dyestuffs. 3,445,454, 5-20-69, Cl. 260-205.
Fisk, Harold E.; and Willis, William J., to Westinghouse Electric Corporation. Operating mechanism. 3,485,981, 12-23-69, Cl. 200-167.
Fisk, Wilbur, to USM Corporation. String lasting apparatus. 3,474,475, 10-28-69, Cl. 12-7.9
Fiske, Chester G., to Jari Corporation. Traction device for snow vehicles. 3,423,856, 1-28-69, Cl. 37-43.
Fiske, Milan D., to General Electric Company. Superconductive totalizer or analog-to-digital converter. 3,458,735, 7-29-69, Cl. 307-306.
Fiske, Ruth E.: *See—*
Jordan, Alfred H.; and Fiske, Ruth E.,3,423,849.
Fiskeby Aktiebolag: *See—*
Ivnas, Lennart; Lindvall, Erik Emanuel; and Steffner, Sven Evert, 3,481,686.
Fisnar, Igor; and Lester, Russell H., Jr., to Fairchild Camera and Instrument Corporation. Incremental drive mechanism. 3,456,516, 7-22-69, Cl. 74-143.
Fisons Fertilizers Limited: *See—*
Chapman, John Dickinson; Dee, Geoffrey Thomas; Janikowski, Stanislaw Maria; and Peters, Roger Hugh, 3,449,107.
Davis, Frederick George; and Dean, Robert, 3,468,349.
Hall, Raymond Frederick; and Sherwin, Kenneth Arthur, 3,431,076.
Harris, Gordon John, 3,457,336.
Fisons Industrial Chemicals Limited: *See—*
Birkett, Gordon; and Cram, Donald John, 3,464,934.
Fisons Limited: *See—*
Lane, David William John; and Newbold, Geoffrey Tattersall, 3,453,365.
Fisons Pest Control Limited: *See—*
Brooker, Peter John; Gillon, John; Newbold, Geoffrey Tattersall; and Saggers, David Thomas, 3,422,198.
Harris, John Frederick, 3,449,352.
Newbold, Geoffrey Tattersall; Walden, Saffron; and Percival, Albert, 3,430,259.
Newbold, Geoffrey Tattersall; and Percival, Albert, 3,472,866.
Fisons Pharmaceuticals Limited: *See—*
Alsop, Ranulph Michael, 3,454,553.
Fitzmaurice, Colin, 3,427,324.
Lee, Thomas Brian; and Templeton, Richard, 3,484,445.
Fisons (Proprietary) Limited: *See—*
Wiehahn, Eric Francis, 3,473,725.
Fissel, Thomas E.: *See—*
Roth, William F.; and Fissel, Thomas E.,3,451,195.
Fister, Aloysius J., to McGraw-Edison Company. Protectors for electric circuits. 3,460,086, 8-5-69, Cl. 337-202.
Fister, Louis P.: *See—*
Scheublein, William A., Jr.; and Fister, Louis P.,3,429,598.
Scheublein, William A., Jr.; Fister, Louis; McNeely, James A.; and Talmage, Jay W.,3,470,721.
Fit Container A.G.: *See—*
Waldbauer, Wilhelm, 3,459,105.
Fitch, Elliot B., to Door-Oliver, Incorporated. Ammonium phosphates. 3,420,624, 1-7-69, Cl. 23-107.
Fitch, Frederick T.: *See—*
Smith, Jean G.; and Fitch, Frederick T.,3,476,691.
Fitch, Frederick T.; and Shoup, Robert D., to Grace, W. R., & Co. Process for preparing high density uranium dioxide particles and composition. 3,444,088, 5-13-69, Cl. 252-301.1
Fitch, Frederick T.; and Shoup, Robert D., to Grace, W. R., & Co. Uranium trioxide aquasol process. 3,453,216, 7-1-69, Cl. 252-301.1
Fitch, James B.: *See—*
Nash, Benjamin C.; and Fitch, James B.,3,455,791.
Fitch, John C. Vehicle suspensions system. 3,473,822, 10-21-69, Cl. 280-124.
Fitch, Steven J.: *See—*
Shen, Chung Yu; and Fitch, Steven J.,3,459,793.
Fitch, Tom L.; McMillan, Donald W.; and Riggin, Lance E., to United States of America, Navy. Control system for providing automatic frequency tracking of a carrier signal in an unsymmetrically frequency modulated video receiver system. 3,421,090, 1-7-69, Cl. 325-346.
Fitchburg Paper Company: *See—*
Bennett, William N., 3,430,350.
Bennett, William N., 3,470,621.
Fitel, Jay M.; and Leigh, Bertram J., to Telsta Corporation. Lifting equipment. 3,480,109, 11-25-69, Cl. 182-148.
Fiterman, Benjamin; and Paletz, Leonard M., to Fidelity File Box, Inc. Desk top file with selectively positionable dividers and corner shelves. 3,464,372, 9-2-69, Cl. 108-60.
Fiterman, Benjamin: *See—*
Simon, Peter Alan; Paletz, Leonard M.; and Fiterman, Benjamin,3,429,632.
Fites, Cyril B., to Wagner Electric Corporation, mesne. Friction device operating mechanism. 3,450,008, 6-17-69, Cl. 92-24.

Fitko, Chester W.: *See—*
Ravve, Abraham; and Fitko, Chester W.,3,440,303.
Fitko, Chester W.; and Ravve, Abraham, to Continental Can Company, Inc. Polyhydroxy aromatic compounds in polyamide cements as adhesion promoters. 3,432,464, 3-11-69, Cl. 260-47.
Fitko, Chester W.; and Ravve, Abraham, to Continental Can Company, Inc. Process for preparing polyamide/olefin polymer graft copolymer adhesive. 3,441,469, 4-29-69, Cl. 161-186.
Fitness King, Inc.: *See—*
La Lanne, Jack, 3,438,627.
Fitts, Robert A.: *See—*
Sellers, Robert S.; Nubel, Robert C.; and Fitts, Robert A.,3,461,035.
Fitz Gerald, Robert E.: *See—*
Arnao, Joseph F.; Fitz Gerald, Robert E.; and Garcia, Armando J.,3,460,088.
Fitz Gerald, Robert E., to United-Carr Incorporated, mesne. Fluorescent lamp holder. 3,426,312, 2-4-69, Cl. 339-56.
Fitz, Herbert, to Kalle Aktiengesellschaft. Process for the manufacture of polyethylene terephthalate. 3,420,801, 1-7-69, Cl. 260-75.
Fitz, Herbert, to Kalle Aktiengesellschaft. Process for the manufacture of a linear polyester using stannous oxalate as a polycondensation catalyst. 3,425,994, 2-4-69, Cl. 260-75.
Fitz, Herbert; and Seifried, Walter, to Kalle Aktiengesellschaft. Film and fiber forming copolyesters. 3,423,370, 1-21-69, Cl. 260-75.
Fitzgerald, Benny M., to Tenneco Oil Company. Method of recovering hydrocarbon fluids from a subterranean formation. 3,441,083, 4-29-69, Cl. 166-245.
Fitzgerald, Curtis L.; Godbee, Herschel W.; and McCorkle, Kenneth H., Jr., to United States of America, Atomic Energy Commission. Conversion and containment of radioactive organic liquids into solid form. 3,463,738, 8-26-69, Cl. 252-301.1
Fitzgerald, Ernest M.: *See—*
Browning, James A.; and Fitzgerald, Ernest M.,3,463,249.
Fitzgerald, Harold M., to Fi-Jax Company. Snap action fill valves for toilets. 3,457,947, 7-29-69, Cl. 137-418.
Fitzgerald, Harold w. Laundry tub pump device. 3,442,219, 5-6-69, Cl. 103-26.
Fitzgerald, Harry G., to Diana Manufacturing Company. Sterile dressing and method of production thereof. 3,455,438, 7-15-69, Cl. 206-63.2
Fitzgerald, John J. Sales record printer for gasoline pumps. 3,426,943, 2-11-69, Cl. 222-30.
Fitzgerald, John J.: *See—*
Rosenbaum, Bernard J.; Oberschmidt, Mike; and Fitzgerald, John J.,3,425,276.
Fitzgerald, John V.; and Kakos, Michael J., to Tile Council of America, Inc. Mortar compositions and methods of use. 3,486,960, 12-30-69, Cl. 156-297.
Fitzgerald, Joseph J., to Sanders Nuclear Corporation. Purifying radioactive isotopes. 3,438,855, 4-15-69, Cl. 176-16.
Fitzgerald, Joseph J.; and Brownell, Gordon L., to Iso/Serve, Inc. Radioisotopic heat source and method of production. 3,421,001, 1-7-69, Cl. 250-106.
Fitzgerald, Joseph J.; and Mayo, Kenneth E., to Sanders Nuclear Corporation. Method of producing a thulium heat source material. 3,432,386, 3-11-69, Cl. 176-16.
Fitzgerald, Warren E.; and Knudsen, John P., to Monsanto Company. Mono-component self-crimping acrylic fibers and process for making the same. 3,447,998, 6-3-69, Cl. 161-173.
Fitzgerald, William Patrick: *See—*
Hunter, Ian; and Fitzgerald, William Patrick,3,432,737.
Fitzgibbons, Robert C., to Swift Instruments Inc. Adjustable friction slip drive for microscopes. 3,451,739, 6-24-69, Cl. 350-84.
Fitzhugh, Andrew F.; Hunt, Charles F.; and Lavin, Edward, to Monsanto Company. Wire enamels containing polyvinyl acetal, phenol-formaldehyde condensate, blocked polyisocyanate, melamine-aldehyde resin and a polysiloxane resin. 3,462,513, 8-19-69, Cl. 260-826.
Fitzhugh, Edward F., Jr.; Seidel, Don C.; and Oberg, Fred N., to Republic Steel Corporation. Recovery of metallic nickel or cobalt from solution of corresponding salt. 3,473,920, 10-21-69, Cl. 75-109.
Fitzhugh, Guy D. Beater blade mounting adapters for working implements or the like. 3,425,087, 2-4-69, Cl. 15-230.19
Fitzhugh, Guy D. Removable adapter for working implements. 3,472,490, 10-14-69, Cl. 259-1.
Fitzky, Hans-Georg: *See—*
Weisbeck, Roland; Fitzky, Hans-Georg; Simm, Walter; and Heyl, Gerhard,3,467,497.
Fitzmaurice, Colin, to Fisons Pharmaceuticals Limited. Derivatives of chromone-2-carboxylic acid. 3,427,324, 2-11-69, Cl. 260-340.7
Fitzmaurice, Colin, to Benger Laboratories Limited. Furochromone derivatives. 3,470,165, 9-30-69, Cl. 260-240.
Fitzmaurice, John A.; and Vaughan, William, to Baird-Atomic, Inc. Reference symbol changer for character recognition device. 3,461,301, 8-12-69, Cl. 250-219.
Fitzmayer, Louis H.: *See—*
Boswell, James M., Jr.; Fitzmayer, Louis H.; and Prucha, Richard V.,3,439,144.
Fitzpatrick, Hugh M.: *See—*
Strasberg, Murray; and Fitzpatrick, Hugh M.,3,434,340.
Fitzpatrick, John R., to Wheatley, Charles, Company. Blow-down vent and check valve. 3,463,189, 8-26-69, Cl. 137-614.2
Fitzpatrick, John R.; and Bock, Juergen K., to Aereon Corporation. Airship. 3,486,719, 12-30-69, Cl. 244-25.
Fitzpatrick, John T.; and van der Hoeven, Willem R., to Union Carbide Corporation. Preparation of dehydroacetic acid. 3,483,224, 12-9-69, Cl. 260-343.5
Fitzpatrick, Wilfrid E., to Williams, Margaret Anne. Safe extra pocket. 3,440,666, 4-29-69, Cl. 2-251.
Fitzsimmons, Alan Edward, to Vickers Limited. Method and apparatus for measuring radiation absorption employing a feedback amplifier to control the lamp supply. 3,437,822, 4-8-69, Cl. 250-218.
Five Hundred Incorporated: *See—*
Collins, Samuel C., 3,438,220.
Stuart, Robert W.; and Hogan, Walter H., 3,430,455.
Stuart, Robert W., 3,459,033.
Fivel, Ernest P., to Plastugil, (Plastique et Elastomeres Ugine-Progil). Process for continuous mass polymerization of styrene and methyl methacrylate. 3,466,269, 9-9-69, Cl. 260-86.7
Fives-Penhoet: *See—*
Fouche, Lucien Frederic Henri Marcel; and Armand, Marc Roger, 3,431,893.
Mariette, Bernard Marie Andre; and Teyssedre, Jules Maurice Pierre, 3,452,721.
Fix-A-Roll Co.: *See—*
Armstrong, Elton C., 3,468,075.
Fixel, Arthur E. Tidewater power generation system. 3,426,540, 2-11-69, Cl. 61-20.
Fjallbrant, Tore Torstensson, to Telefonaktiebolaget L M Ericsson. Filter circuit with reciprocal impedance branches. 3,473,140, 10-14-69, Cl. 330-31.
Fjallbrant, Tore Torstensson, to Telefonaktiebolaget L M Ericsson. Active RC-filter of a wanted degree. 3,473,141, 10-14-69, Cl. 330-94.
Fjallbrant, Tore Torstensson, to Telefonaktiebolaget L M Ericsson. Microwave signal modulator comprising a hybrid junction and nonreciprocal phase shifter. 3,475,699, 10-28-69, Cl. 332-31.
Fjerstad, Roger L., to Sylvania Electric Products Inc. Varactor modulator having a linear tuning voltage vs. frequency response. 3,443,247, 5-6-69, Cl. 332-30.
Flach, Rolf; and Krause, Fritz, to Kemptener Maschinenfabrik G.m.b.H. Circular binding machine for woven and knitted goods. 3,479,976, 11-25-69, Cl. 112-25.
Flachbarth, Charles T., to Textron, Inc. Coupling for underfloor ducts. 3,451,033, 6-17-69, Cl. 339-14.
Flachbarth, Charles T., to Textron Inc. Flush duct insert. 3,463,194, 8-26-69, Cl. 138-92.
Flachbarth, Charles T., to Textron, Inc. Floor box. 3,485,933, 12-23-69, Cl. 174-51.
Flachbarth, Charles T.; and Friedman, Ronald S., to Textron, Inc. Boat trailer fixtures. 3,458,182, 7-29-69, Cl. 269-25.
Flachsenberg, Paul; Wuherer, Josef; and Stein, Walter, to Rheinische Kalksteinwerke G.m.b.H. Mix for forming light weight concrete. 3,470,005, 9-30-69, Cl. 106-87.
Flack, Herbert P.; and McClanahan, Henry H., to Grace, W. R., & Co. Microsphere process. 3,463,842, 8-26-69, Cl. 264-0.5
Fladlien, David G.; and Smith, J Perry, to TRW Inc. Tuning device for adjusting a mirror for a laser. 3,422,689, 1-21-69, Cl. 74-89.15
Flagg, John E., to Clark, David, Company, Incorporated. Ear protector. 3,432,861, 3-18-69, Cl. 2-209.
Flagg, Michael. Washbasins. 3,456,264, 7-22-69, Cl. 4-170.
Flagg, Paul B., to International Business Machines Corporation. Circuit for sensing binary signals from a high speed memory device. 3,466,471, 9-9-69, Cl. 307-322.
Flagg, Raymond P.: *See—*
Blackett, James C.; Flagg, Raymond P.; Livingston, William L.; and Ritchart, Stuart T.,3,421,536.
Flaherty, Francis Edward: *See—*
Carlen, Jan-Christer Henric Ovesson; Flaherty, Francis Edward; and Tupper, Wyman Carrick,3,469,972.
Flaherty, James H., to General Motors Corporation. Making a welded circuit assembly. 3,430,338, 3-4-69, Cl. 29-626.
Flaherty, James H., to General Motors Corporation. Cutting tool and tip therefor. 3,455,000, 7-15-69, Cl. 29-95.
Flaherty, John J.; Clark, John W.; and Rosauer, Peter J., to Magnaflux Corporation. Medical diagnostic system. 3,448,606, 6-10-69, Cl. 73-67.8
Flaherty, John J.; and O'Connor, Donald T., to Magnaflux Corporation. Medical ultrasonic scanning system. 3,480,002, 11-25-69, Cl. 128-2.
Flaherty, John J.; and Rosauer, Peter J., to Magnaflux Corporation. Multi-scan ultrasonic testing apparatus. 3,439,530, 4-22-69, Cl. 73-67.8
Flaherty, John J.: *See—*
Nerwin, Henry N., Jr.; and Flaherty, John J.,3,475,681.
Flaherty, Robert J., Jr.; Walker, Henry P.; and Kimball, John A., Jr. Dynamoelectric machine stator assembly with end turn encapsulation. 3,436,569, 4-1-69, Cl. 310-43.

Flajole, Henry J., to Ansul Company, The. Control unit for fire extinguishing systems and the like. 3,463,235, 8-26-69, Cl. 169-9.
Flajole, Henry J.; Andersen, Fred R.; and Thompson, Dale A., to Ansul Company, The. Cable release for fire protection system and the like. 3,463,236, 8-26-69, Cl. 169-42.
Flake, George H.: *See—*
Magnani, Seeley L.; Fodroci, Michael P.; and Flake, George H.,3,486,731.
Flaks, Simon; and Depoutot, Roger, to Societe Lignes Telegraphiques et Telephoniques. Solid electrolytic capacitor having mixed dioxide semiconductor layer. 3,458,775, 7-29-69, Cl. 317-230.
Flaks, Simon; and Escher, Balint, to Societe Lignes Telegraphiques et Telephoniques. Process for manufacturing high porosity sintered parts. 3,453,105, 7-1-69, Cl. 75-213.
Flambeau Plastics Corporation: *See—*
Hulterstrum, Harold D., 3,433,510.
Flame-Out, Inc.: *See—*
Stewart, Katherine Ferguson; and Pruett, James A., 3,457,172.
Flaming, Edwin H., to Phillips Petroleum Company. Process for flaring plastic pipe ends. 3,435,109, 3-25-69, Cl. 264-322.
Flanagan, Allan L., to Foxboro Company, The. Industrial process controller by-pass apparatus. 3,483,543, 12-9-69, Cl. 340-187.
Flanagan, Allan L.; and Earle, William E., to Foxboro Company, The. Industrial process instrumentation apparatus. 3,458,722, 7-29-69, Cl. 307-239.
Flanagan, Charles D.: *See—*
Finnegan, Francis; and Flanagan, Charles D.,3,432,643.
Flanagan, George Francis, to Commonwealth Scientific and Industrial Research Organization. Method for the formation of felt. 3,423,810, 1-28-69, Cl. 28-72.3
Flanagan, George Francis, to Commonwealth Scientific and Industrial Research Organization. Fibre preparation for wad or felt manufacture. 3,458,906, 8-5-69, Cl. 19-163.
Flanagan, James L., to Bell Telephone Laboratories, Incorporated. Vowel detector. 3,428,748, 2-18-69, Cl. 179-1.
Flanagan, James L., to Bell Telephone Laboratories, Incorporated. Reception of signals transmitted in a reverberant environment. 3,440,350, 4-22-69, Cl. 179-1.
Flanagan, James L., to Bell Telephone Laboratories, Incorporated. Transmitting system. 3,476,880, 11-4-69, Cl. 179-1.5
Flanagan, James L.; Golden, Roger M.; and Schroeder, Manfred R., to Bell Telephone Laboratories, Incorporated. Method for reducing the distortion of multipath transmissions. 3,466,547, 9-9-69, Cl. 325-65.
Flanagan, James L.; and Schroeder, Manfred R., to Bell Telephone Laboratories, Incorporated. Bandwidth compression eliminating frequency transposition and overcoming phase ambiguity. 3,484,556, 12-16-69, Cl. 179-15.55
Flanagan, James R.; and Zerlin, William M., to Amphenol Corporation. Coaxial cable connector. 3,439,294, 4-15-69, Cl. 333-33.
Flanagan, Thomas P., to National Starch and Chemical Corporation. Hot melt adhesives comprising ethylene/vinyl acetate copolymers and alpha-pinene/phenol condensation products. 3,448,178, 6-3-69, Cl. 260-897.
Flanagan, William J.; and Lee, David Q., to United Aircraft Corporation, mesne. Delay time computer for heart pump system. 3,430,624, 3-4-69, Cl. 128-1.
Flanders, Andrew E.: *See—*
Goforth, John L.; and Flanders, Andrew E.,3,430,028.
Flanders, David R., to United States of America, Navy, mesne. Radiant energy actuated hydraulic protection system. 3,452,697, 7-1-69, Cl. 114-43.5
Flanders Filters Incorporated: *See—*
Allan, Adrian R., Jr., 3,486,311.
Flanders, Ralph W. Food expulsion spoon. 3,473,221, 10-21-69, Cl. 30-141.
Flangeklamp Corporation: *See—*
Lickliter, Robert P.; Abbott, Earl; and Reeves, John F., 3,481,088.
Flannelly, William G., to Kaman Corporation. Dynamic antiresonant vibration isolator. 3,441,238, 4-29-69, Cl. 248-20.
Flannelly, William G., to Kaman Corporation. Dynamic antiresonant vibration isolator. 3,445,080, 5-20-69, Cl. 248-20.
Flanner, Walt J., Jr., to Unitog Company. Plastic labels coated with cross-linked polyvinyl chloride-epoxide-anhydride mixture. 3,486,924, 12-30-69, Cl. 117-38.
Flannery, Edward J.: *See—*
Whiston, Donald H.; and Flannery, Edward J.,3,429,222.
Flannery, John D.: *See—*
Heiner, Edward A.; and Flannery, John D.,3,435,483.
Flannery, Robert J.: *See—*
Martin, Ronald L.; and Flannery, Robert J.,3,461,042.
Flannery, William E., to Sperry Rand Corporation. Three state parametric oscillator. 3,421,016, 1-7-69, Cl. 307-88.
Flannery, William E., to Sperry Rand Corporation. Continuous film magnetic memory array having matrix of island-like voids. 3,466,621, 9-9-69, Cl. 340-174.
Flannery, William E.; and Matcovich, Thomas J., to Sperry Rand Corporation. Thin magnetic film memory operating in the time limited mode. 3,436,742, 4-1-69, Cl. 340-174.
Flannigan, William J. Planter shroud and planter. 3,475,858, 11-4-69, Cl. 47-34.
Flarity, Warren H., to Ryan Aeronautical Co., The. Phase comparison radio receiver. 3,445,845, 5-20-69, Cl. 343-105.
Flasch, Josef: *See—*
Stieger, Gerhard; and Flasch, Josef,3,427,267.
Flasskamp, Willi: *See—*
Wilm, Diederich; Flasskamp, Willi; Broft, Eduard; and Jordan, Kurt,3,473,300.
Flatau, Abraham. Parachute with canopy vent and standoff panel. 3,474,990, 10-28-69, Cl. 244-145.
Flatt, Adrian E., to University of Iowa. Intramedullary finger joint prosthesis. 3,466,669, 9-16-69, Cl. 3-1.
Flatt, Donald V., to Dow Corning Corporation. Inhibited system for organosilicon compounds. 3,453,233, 7-1-69, Cl. 260-46.5
Flatt, Walter W., 1/2 to Cibula, Alvin M. Section tool dispenser with automatic inventory indication. 3,429,633, 2-25-69, Cl. 312-324.
Flaum, Mitchel; and Weiskopf, Gunther, to S & S Corrugated Paper Machinery Company, Inc. Automatic creaser and slitter positioning means. 3,456,565, 7-22-69, Cl. 93-58.2
Flavin, Theodore F., to International Business Machines Corporation. Slip clutch. 3,477,252, 11-11-69, Cl. 64-30.
Flavor Corporation of America: *See—*
Tribble, Talmadge B.; and Rondenet, Eugene L., 3,444,218.
Flavor-Pict, Inc.: *See—*
Rauth, Robert G., 3,451,397.
Flax, Jerome, to Monsanto Graphic Systems, Inc., mesne. Electrostatic printing using porous member. 3,450,043, 6-17-69, Cl. 101-114.
Flax, Martha A., to Clairol, Incorporated. Cosmetic container including an internally disposed cosmetic applicator and means to readily detachably hold the same in place. 3,441,033, 4-29-69, Cl. 132-82.
Flax, Martha A., to Clairol Incorporated. Cosmetic container with single post rotatable mounting for plural trays and ball swivel mount for mirrored lid for the top tray. 3,476,123, 11-4-69, Cl. 132-79.
Flax, Martha A. Cosmetic case. 3,482,728, 12-9-69, Cl. 220-20.
Flax, Valer. Apparatus for spin welding a thermoplastic endpiece to an open-ended thermoplastic tubular body. 3,446,688, 5-27-69, Cl. 156-423.
Flaxman, Nathan: *See—*
Schweitzer, William P.; and Flaxman, Nathan,3,430,634.
Flechner, Irving: *See—*
Otto, Edward C.; and Flechner, Irving,3,437,034.
Fleck, George J.; and Bryant, Eugene E., to Whirlpool Corporation. Air flow indicator for vacuum cleaner apparatus. 3,452,385, 7-1-69, Cl. 15-339.
Fleck Industries, Inc.: *See—*
Graham, Andrew Stuard, Jr., 3,420,406.
Fleck, Ray D.: *See—*
Barker, Stephen; and Fleck, Ray D.,3,421,778.
Fleckenstein, Andrew J.: *See—*
Fleckenstein, Lambert W.; and Fleckenstein, Andrew J.,3,482,604.
Fleckenstein, Andrew J. Timing motor mechanism for control valves and the like. 3,457,792, 7-29-69, Cl. 74-3.52
Fleckenstein, Hans, to Licentia Patent-Verwaltungs-GmbH. Adhesive soaked absorbent layer for centering and joining components together. 3,482,125, 12-2-69, Cl. 310-42.
Fleckenstein, Lambert W.; and Fleckenstein, Andrew J. Control valve with rotary actuation. 3,482,604, 12-9-69, Cl. 137-624.2
Fleece, John. Caution lights for motor cars. 3,432,808, 3-11-69, Cl. 340-84.
Fleer, Otto: *See—*
Taubald, Helmut; and Fleer, Otto,3,471,125.
Flegel, George J.; and Mielbeck, Roger L., to Josam Manufacturing Co. Toilet bowl carrier. 3,435,467, 4-1-69, Cl. 4-252.
Fleig, William E.: *See—*
Centanni, James D.; and Fleig, William E.,3,484,750.
Fleischauer, Fred J. Air lift and vacuum conveyors and foraminous belt means therefor. 3,477,558, 11-11-69, Cl. 198-184.
Fleischer, Oscar. Brake for fishing reel. 3,428,268, 2-18-69, Cl. 242-84.45
Fleischhacker, Joseph F.; and Kawamoto, Frank T., to Tescom Corporation. Apparatus for flame spraying powder. 3,476,320, 11-4-69, Cl. 239-85.
Fleischman, Frederick R.; and Rutledge, George A., to Reynolds Metals Company. Vending apparatus for dispensing reconstituted food in containers. 3,425,339, 2-4-69, Cl. 99-357.
Fleischman, Howard A., to Fleischman Industries, Inc. Security hanger device. 3,430,775, 3-4-69, Cl. 211-123.
Fleischman Industries, Inc.: *See—*
Fleischman, Howard A., 3,430,775.
Fleischman, Raymond N., to Aqua-vel. Electrolytic water conditioning unit and electrode assembly therefor. 3,425,925, 2-4-69, Cl. 204-197.
Fleischmann, Hans H. P.: *See—*
Scott, Franklin R.; Fleischmann, Hans H. P.; and Tuckfield, Ralph G., Jr.,3,445,722.

Fleischmann, Lewis W.: *See—*
Angelos, Mitchell G.; and Fleischmann, Lewis W.,3,482,517.
Fleischmann, Nicholas. Heat and sound insulation. 3,476,634, 11-4-69, Cl. 161-38.
Fleischner, Peter L.; and Smoke, Edward J., to United States of America, Navy, mesne. Cordierite ceramic process and product. 3,480,452, 11-25-69, Cl. 106-39.
Fleisher, Harold; and Harris, Thomas J., to International Business Machines Corporation. Optical and gate. 3,448,282, 6-3-69, Cl. 250-225.
Fleisher, Harold; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, to International Business Machines Corporation. Optical scanning device. 3,432,222, 3-11-69, Cl. 350-149.
Fleisher, Harold: *See—*
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard,3,435,447.
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard,3,466,433.
Harris, Thomas J.; Fleisher, Harold; and Shapiro, Eugene,3,434,778.
Fleisher, Marvin B.; and Hixon, Philip E., to Itek Corporation, mesne. Photographic developing apparatus. 3,422,741, 1-21-69, Cl. 95-94.
Fleisher, Marvin B.: *See—*
Hixon, Philip E.; Fleisher, Marvin B.; and Braithwaite, Bertrand G.,3,472,143.
Fleissner, Gerold, to Anstalt fur Patentdienst. Sieve drum installation. 3,427,726, 2-18-69, Cl. 34-122.
Fleissner, Gerold, to Anstalt fur Patentdienst. Apparatus for treating loose fibrous material. 3,440,843, 4-29-69, Cl. 68-22.
Fleissner, Gerold; and Fleissner, Heinz, to Vepa AG. Apparatus and method for the wet-treatment of materials which are permeable to liquids. 3,425,789, 2-4-69, Cl. 8-151.
Fleissner, Gerold: *See—*
Fleissner, Heinz; and Fleissner, Gerold,3,430,355.
Fleissner, Heinz; and Fleissner, Gerold,3,430,356.
Fleissner, Hans, to Vepa AG. Method and apparatus for the heat-treatment of materials which can be stressed in a longitudinal direction. 3,430,352, 3-4-69, Cl. 34-15.
Fleissner, Hans, to Vepa AG. Process and apparatus for the treatment of textile materials. 3,450,486, 6-17-69, Cl. 8-149.3
Fleissner, Hans, to Anstalt fur Patentdienst. Process and device for the treatment of textile material. 3,460,898, 8-12-69, Cl. 8-149.1
Fleissner, Hans; and Fleissner, Heinz, to Vepa AG. Apparatus for the treatment of lengths of materials. 3,440,736, 4-29-69, Cl. 34-115.
Fleissner, Heinz: *See—*
Fleissner, Gerold; and Fleissner, Heinz,3,425,789.
Fleissner, Hans; and Fleissner, Heinz,3,440,736.
Fleissner, Heinz, to Anstalt fur Patentdienst. Sieve drum dryer. 3,427,725, 2-18-69, Cl. 34-115.
Fleissner, Heinz, to Vepa AG. Apparatus for the heat-treatment of materials. 3,440,735, 4-29-69, Cl. 34-115.
Fleissner, Heinz, to Anstalt fur Patentdienst. Process and device for drying and ironing tows and other strands of material of sliver-type material. 3,445,947, 5-27-69, Cl. 38-2.
Fleissner, Heinz, to Vepa AG. Process and apparatus for the treatment of a plurality of fibrous or filament-like materials. 3,456,431, 7-22-69, Cl. 57-35.
Fleissner, Heinz, to Vepa AG. Process and apparatus for the heat-treatment of materials. 3,460,266, 8-12-69, Cl. 34-26.
Fleissner, Heinz, to Vepa AG. Process and apparatus for the wet-treatment of materials. 3,467,975, 9-23-69, Cl. 8-151.2
Fleissner, Heinz, to Vepa A.G. Apparatus for the treatment of materials. 3,469,423, 9-30-69, Cl. 68-5.
Fleissner, Heinz, to Vepa AG. Process and apparatus for the wet-treatment of materials. 3,469,932, 9-30-69, Cl. 8-151.
Fleissner, Heinz, to Vepa AG. Apparatus for the treatment of materials with a gaseous or vaporous medium. 3,473,236, 10-21-69, Cl. 34-115.
Fleissner, Heinz, to Vepa AG. Heat-treatment apparatus. 3,476,367, 11-4-69, Cl. 263-3.
Fleissner, Heinz; and Fleissner, Gerold, to Vepa AG. Apparatus for the heat-treatment of textile materials. 3,430,355, 3-4-69, Cl. 34-122.
Fleissner, Heinz; and Fleissner, Gerold, to Anstalt fur Patentdienst. Sieve drum gas-solid contact apparatus. 3,430,356, 3-4-69, Cl. 34-132.
Flekac, Frantisek, to Strojosvit, Narodni Podnik. Knife rest for a band shaped splitting knife. 3,435,640, 4-1-69, Cl. 321-2.
Fleming, Bruce N. Thermally controlled automatic feed dispensing apparatus. 3,421,479, 1-14-69, Cl. 119-51.11
Fleming, Bruce N. Self fish feeder. 3,487,433, 12-30-69, Cl. 119-51.
Fleming, Geo. W., Company, The: *See—*
Wright, Robert E., 3,469,570.
Fleming, George H., Jr.: *See—*
Supina, Walter R.; and Fleming, George H., Jr.,3,420,080.
Fleming, Gerald S.; Reed, Robert G.; and Seufert, John L., to North American Rockwell Corporation. Radome structural composite. 3,453,620, 7-1-69, Cl. 343-18.
Fleming, Harold W., to Catalysts and Chemicals, Inc. Gas purification by hydrogenation. 3,420,618, 1-7-69, Cl. 23-2.
Fleming, Harold W., to Catalysts and Chemicals Inc. Palladium catalysts. 3,471,583, 10-7-69, Cl. 260-677.
Fleming, Jack Fairchild, to Sterling Plastics Company. Knife with slidable blade sheathed and selectively clampable in handle. 3,439,419, 4-22-69, Cl. 30-162.
Fleming, John F. Stair-climbing vehicle. 3,450,219, 6-17-69, Cl. 180-8.
Fleming, John Stuart, to Floxite Company, Inc. Device for visual examination of the mouth. 3,459,178, 8-5-69, Cl. 128-22.
Fleming, Jonathan B., to Hesston Corporation, Inc. Bale stacker. 3,445,006, 5-20-69, Cl. 214-6.
Fleming, Joseph D.; Sanchez, Earl J.; Farris, Charles L.; and Notley, Norman T., to Kalvar Corporation. Pressure-sensitive foils and method of making same. 3,440,083, 4-22-69, Cl. 117-63.
Fleming, Joseph T.: *See—*
Johnston, Gerald T.; Fleming, Joseph T.; and Boyd, Robert L.,3,465,233.
Fleming, Joseph W. Apparatus for determining freezing points. 3,436,956, 4-8-69, Cl. 73-17.
Fleming, Julius D.: *See—*
Farr, Thad D.; Walters, Henry K., Jr.; and Fleming, Julius D.,3,484,192.
Fleming, Karl J., to General Electric Company. Oven having one heat source for providing both baking and under-fired broiling. 3,450,025, 6-17-69, Cl. 99-399.
Fleming Metal Fabricators: *See—*
Fleming, Robert I.; and Froby, Howard M., 3,465,912.
Fleming, Raymond T.: *See—*
Smith, Richard E.; and Fleming, Raymond T.,3,440,473.
Fleming, Robert B., to General Electric Company. Heat exchanger of porous metal. 3,433,299, 3-18-69, Cl. 165-135.
Fleming, Robert B.: *See—*
Colyer, Duard B.; and Fleming, Robert B.,3,477,504.
Fleming, Robert I.; and Froby, Howard M., to Fleming Metal Fabricators. Safety vent and filler cap for vehicle gasoline tank. 3,465,912, 9-9-69, Cl. 220-89.
Fleming, Robert W.; and Hauck, Fred P., Jr., to Parke, Davis & Company. Dihydropyrrole and tetrahydropyridine compounds. 3,457,270, 7-22-69, Cl. 260-295.
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., to Allied Chemical Corporation. Polyblend yarns. 3,470,686, 10-7-69, Cl. 57-140.
Flemings, Merton C.: *See—*
Utech, Harvey P.; and Flemings, Merton C.,3,464,812.
Flemming, Leonard P. Moveable seat type exerciser. 3,432,162, 3-11-69, Cl. 272-58.
Flentie, John L. Fertilizer tank for tractors. 3,472,429, 10-14-69, Cl. 222-178.
Fleschhut, Richard: *See—*
Fuhring, Heinrich; and Fleschhut, Richard,3,466,688.
Fuhring, Heinrich; and Fleschhut, Richard,3,484,884.
Flesselles, Jacques; and Poupin, Raymond, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for the automatic stopping of a machine such as a cigarette-making machine. 3,470,424, 9-30-69, Cl. 317-130.
Flester, Eugene G., Jr.; and Katz, Silas, to United States of America, Army. Fluid amplifier component adjustable to provide a variety of configurations. 3,465,781, 9-9-69, Cl. 137-271.
Fletcher, Alfred John; and Richards, Edward Gordon, to International Nickel Company, Inc., The. Nickel-chromium-niobium alloy. 3,466,171, 9-9-69, Cl. 75-171.
Fletcher and Stewart Limited: *See—*
Else, John D.; and Grant, John W., 3,481,573.
Fletcher, Archibald William; and Wilson, John Charles, to National Research Development Corporation. Method of smelting tin ores. 3,466,168, 9-9-69, Cl. 75-85.
Fletcher, Charles Philip; Friedlander, Erich Siegfried; Manzler, Maurice Leslie; and Young, David John, to General Electric Company Limited, The. Voltage stabilizing arrangements for alternating current supplied utilizing saturated shunt reactors. 3,450,981, 6-17-69, Cl. 323-60.
Fletcher, Daniel W., to Collins Radio Company. Automatic tuning control for R. F. power amplifiers. 3,454,881, 7-8-69, Cl. 325-177.
Fletcher, David M.; and Wendel, Martin M., to Du Pont de Nemours, E. I., and Company. Production of stronger HNO_3 by coproducing weaker HNO_3. 3,475,118, 10-28-69, Cl. 23-157.
Fletcher, Dennis H.: *See—*
Jones, Stanley A.; and Smith, Paul C., 3,439,662.
Fletcher, Eldon L., to Du Pont de Nemours, E. I., and Company, mesne. Strand cutting apparatus. 3,464,300, 9-2-69, Cl. 83-100.
Fletcher, George Warren; and Fletcher, Kenneth W. Air compressing automotive wheel. 3,452,801, 7-1-69, Cl. 152-419.
Fletcher, Harry W., to Spectrol Electronics Corporation. Brush assembly for rotary electrical apparatus. 3,437,975, 4-8-69, Cl. 339-1.
Fletcher, Henry Raymond, to Dunlop Rubber Company Limited. Methods of manufacturing pneumatic tires. 3,480,496, 11-25-69, Cl. 156-128.

Fletcher, Henry, to Wallace & Tiernan Inc., mesne. Production of substituted isoindolenines. 3,441,571, 4-29-69, Cl. 260-326.1
Fletcher, Henry, to Wallace & Tiernan Inc., mesne. Producing tetramethylisoindolenine by heating acetonylacetone in aqueous ammonium salt. 3,448,119, 6-3-69, Cl. 260-326.1
Fletcher, Jon E.; and Nelson, Rodney A., to Dow Chemical Company, The. Method of making mercapto alcohols. 3,462,496, 8-19-69, Cl. 260-609.
Fletcher, Joseph D., to Tube and Pipe Industries (Proprietary) Limited. Method and means for the manufacture of spiral piping. 3,423,003, 1-21-69, Cl. 228-15.
Fletcher, Kenneth E.; and Cole, Alfred E., to Thorn-AEI Radio Valves & Tubes Limited. Cathode ray tubes. 3,460,879, 8-12-69, Cl. 316-19.
Fletcher, Kenneth W.: *See—*
Fletcher, George Warren; and Fletcher, Kenneth W.,3,452,801.
Fletcher, Milton. Adjustable lamp structure. 3,476,931, 11-4-69, Cl. 240-81.
Fletcher, Robert P., to International Business Machines Corporation. Storage system using a storage device having defective storage locations. 3,444,526, 5-13-69, Cl. 340-172.5
Fletcher, Robert W., to ESB Incorporated. Large surface area electrodes and a method for preparing them. 3,427,203, 2-11-69, Cl. 136-120.
Fletcher, Royce W.: *See—*
Yourke, Hannon S.; and Fletcher, Royce W.,3,482,176.
Fletcher, Taylor C.; and Shoemaker, William E., to Beckman Instruments, Inc. Electronic commutator employing a single amplifier for a multitude of data channels. 3,422,360, 1-14-69, Cl. 328-104.
Fletcher, Wade D., to Sonoco Products Company. Identification insert for textile carrier. 3,425,149, 2-4-69, Cl. 40-309.
Fletcher, Willard J., to LTV Electrosystems, Inc. Removable handle. 3,484,894, 12-23-69, Cl. 16-114.
Fletcher, William A.: *See—*
Nichols, Charles A.; Joyce, Alexander H.; Gardner, Charles W.; and Fletcher, William A.,3,455,371.
Trible, Clayton J.; and Fletcher, William A.,3,456,088.
Fletcher, Wilson D.: *See—*
Cohen, Paul; and Fletcher, Wilson D.,3,468,764.
Fleurke, Karel H.: *See—*
Van Der Plas, Franciscus J. F.; and Fleurke, Karel H.,3,483,136.
Fleury, Glendon K. light emitting shotgun cartridge. 3,471,945, 10-14-69, Cl. 35-25.
Fleury, Paul; Patel, Chandra K. N.; Slusher, Richart E.; and Yafet, Yako, to Bell Telephone Laboratories, Incorporated. Field-tunable raman laser. 3,470,453, 9-30-69, Cl. 321-69.
Flewwelling, Herbert Martin, to Domtar Limited. Method and apparatus for individualizing fibers preparatory to web forming. 3,482,287, 12-9-69, Cl. 19-156.3
Flex-Float Engineering Company: *See—*
Raver, Clarence Leo, 3,479,063.
Flex-O-Glass, Inc.: *See—*
Warp, Harold, 3,452,497.
Flex-O-Lators, Inc.: *See—*
Arnold, Harmon W.; and Bell, George E., 3,451,169.
Arnold, Harmon W.; and Tieman, Lloyd E., 3,462,196.
Flex-Track Equipment Ltd.: *See—*
Nodwell, William Bruce; and Nodwell, John H., 3,447,619.
FLEXA Industria Materie Plastiche S.p.A.: *See—*
Brunner, Augusto J.; Costa, Fulvio; and Falcone, Luigi, 3,481,821.
Flexible, Inc.: *See—*
Ciaccio, Peter L., 3,464,076.
Flexible Packaging Equipment, Inc.: *See—*
Black, Donald M.; and Carfagno, Samuel J., 3,422,728.
Flexible Plastic Straw Corporation: *See—*
Aykanian, Ardashus A., 3,461,554.
Flexible Steel Lacing Company: *See—*
McComb, Frank E., 3,438,096.
Flexibox Limited: *See—*
Wright, Ronald Frederick, 3,431,683.
Flexigrip, Inc.: *See—*
Spalding, Ernest George Gerald, 3,460,208.
Staller, Karel J., 3,440,696.
Flexstrap Inc.: *See—*
Padilla, Robert J., 3,420,019.
Fli-Back Company, Inc., The: *See—*
Griffin, Donald H., 3,445,551.
Flick, Howard S.: *See—*
Dickmann, John L.; and Flick, Howard S.,3,483,774.
Dickmann, John L.; Flick, Howard S.; and Palmer, Melvin J.,3,481,228.
Flick, Kurt: *See—*
Frankus, Ernst; and Flick, Kurt,3,470,249.
Flicker, Howard D., to Aircraft Plating, Inc. Deposition of metal containing coating from vapor. 3,449,151, 6-10-69, Cl. 117-50.
Flickinger, Don H., to Pan American Petroleum Corporation. Acidizing deep high-temperature wells. 3,456,733, 7-22-69, Cl. 166-302.
Flickinger, Don H.; and Fast, Clarence R., to Pan American Petroleum Corporation. Formation plugging. 3,486,559, 12-30-69, Cl. 166-252.
Flickinger, Earl Dan, to Skelly Oil Company. Phenol purification. 3,437,699, 4-8-69, Cl. 260-621.
Flickinger, Earl Dan, to Skelly Oil Company. Hydrogenation process. 3,441,618, 4-29-69, Cl. 260-621.
Flickinger, Earl Dan; and Isom, Jessie Tom, to Skelly Oil Company. Hydrogenation process. 3,436,429, 4-1-69, Cl. 260-621.
Flickinger, Maynard L.; and Ross, Robert S., to Goodyear Aerospace Corporation. Combination ballonet and dilation system for balloons. 3,432,122, 3-11-69, Cl. 244-31.
Flieg, Werner, to Digitronics Corporation. Portable print punch. 3,441,944, 4-29 -69, Cl. 346-66.
Fliege, Oskar: *See—*
Resch, Werner; and Fliege, Oskar,3,450,399.
Flier, Ronald J.: *See—*
Hale, Douglas; and Flier, Ronald J.,3,467,525.
Fliger, Josephine: *See—*
Fliger, Louis R., Jr.,3,477,680.
Fliger, Louis R., Jr., deceased0 (by Fliger, Josephine0Fox, Marnell; administrators). Device for preventing a cake from slipping on a plate. 3,477,680, 11-11-69, Cl. 248-346.
Flinchbaugh, Henry K. Apparatus for operating an overhead vehicle door. 3,444,650, 5-20-69, Cl. 49-360.
Flinchbaugh Products, Inc.: *See—*
Marano, Herbert W., 3,436,294.
Flindall, Robert Lacey; and Lae, Leif Ragnar, to Northern Electric Company Limited. Identification of a subscriber's request for service. 3,482,056, 12-2-69, Cl. 179-18.
Fling, John J., to True-Trace Corporation. Stylus steering system for a tracer valve. 3,481,577, 12-2-69, Cl. 251-3.
Fling, John J.; Howard, Shirly L.; and Weil, Frederick M., to International Telephone and Telegraph Corporation. Pencil beam frequency/phase scanning system. 3,438,035, 4-8-69, Cl. 343-100.
Flinn, Richard A.; Sobell, Richard S.; Swigar, Andrew A.; and Walde, Robert A., to Air Products and Chemicals, Inc. Ultraviolet absorbing composition comprising a formazan. 3,425,844, 2-4-69, Cl. 99-150.
Flinn, Richard A.; and Young, Jack A., to Air Products and Chemicals, Inc. Respiratory stimulant comprising neon. 3,436,455, 4-1-69, Cl. 424-127.
Flinner, Vaughn D.: *See—*
Fulton, Howard A.; and Flinner, Vaughn D.,3,466,064.
Fulton, Howard A.; Flinner, Vaughn D.; and Sprang, Richard W.,3,421,540.
Flint, Alan G., to FMC Corporation. Tray filling and handling system. 3,420,392, 1-7-69, Cl. 214-301.
Flint, Charles R. Exhaust manifold device. 3,455,106, 7-15-69, Cl. 60-30.
Flint, Edward F., to North American Rockwell Corporation. Thermal detection system. 3,465,149, 9-2-69, Cl. 250-83.3
Flint, Graham W.; and Bowen, James R., to Martin-Marietta Corporation. Arrangement of electrical components to define a low inductance plasma generating apparatus. 3,469,144, 9-23-69, Cl. 315-182.
Flint, Hyland C. Energy absorption seat. 3,466,088, 9-9-69, Cl. 297-296.
Flint, Hyland C. Seat assembly. 3,469,883, 9-30-69, Cl. 297-353.
Flint, Hyland C. Seat construction. 3,475,054, 10-28-69, Cl. 297-344.
Flint, John C. E., to Dowty Hydraulic Units Limited, mesne. Fluid seals. 3,433,453, 3-18-69, Cl. 251-282.
Flint, John C. E., to Dowty Technical Developments Limited. Slide valves. 3,451,426, 6-24-69, Cl. 137-596.13
Flintkote Company, The: *See—*
Cacossa, Frank G., 3,427,771.
Cacossa, Frank G., 3,456,411.
Dalik, Herbert A., 3,455,190.
Hoiberg, Arnold J.; Orsulak, John P.; and Bick, Philip C., 3,443,981.
Metzger, Grant W., 3,430,936.
Miessler, Paul W., Sr., 3,465,636.
Flippo, Robert V., to LTV Electrosystems, Inc. Fixed jet servo valve. 3,485,255, 12-23-69, Cl. 137-83.
Flitsch, Ernst: *See—*
Gotzenberger, Rudibert, 3,459,211.
Flittie, William J., to Goldwire, Henry C. Ensilaging means and method. 3,427,790, 2-18-69, Cl. 56-1.
Flittie, William J., 1/10 to Goldwire, Henry C. Livestock feeding method. 3,452,715, 7-1-69, Cl. 119-51.
Flittner, Peter: *See—*
Siemund, Guenter; Hansen, Hans; and Flittner, Peter,3,450,578.
Floatex Separations Limited: *See—*
Phipps, John Degory Baron, 3,456,789.
Flocchini, Andrew J. Automatic animal feeding device with retractable nipple. 3,421,484, 1-14-69, Cl. 119-71.
Flocchini, Andrew J. Livestock control gate. 3,422,571, 1-21-69, Cl. 49-31.

Flock, Henry H.: *See—*
Churchill, Ralph, Jr.; and Flock, Henry H.,3,476,014.
Flockhart, Maxwell G.: *See—*
Davis, James H.; Dobie, John D.; and Flockhart, Maxwell G.,3,437,415.
Floden, Bjorn F., to RCA Corporation. Slide projector including two light paths and one slide magazine. 3,462,215, 8-19-69, Cl. 353-82.
Flodin, Per Gustaf Magnus; Granath, Kirsti Annikki; Ingelman, Bjorn Gustaf-Adolf; and Johansson, Christina, to Aktiebolaget Pharmacia. Therapeutic infusion and injection composition containing hydroxyalkyl dextran. 3,453,364, 7-1-69, Cl. 424-180.
Flodin, Per Gustaf Magnus; Kornfeldt, Per; Okamura, Seizo; and Higashimura, Toshinobu, to Perstorp Aktiebolag, (sometimes k.a. Perstorp AB). Method for the solid phase copolymerization of trioxane. 3,442,862, 5-6-69, Cl. 260-67.
Floehr, Walter L.: *See—*
Brown, Floyd R.; and Floehr, Walter L.,3,433,201.
Ingram, Orville; and Floehr, Walter L.,3,439,956.
Floehr, Walter L. Load balancer for freight car doors. 3,421,262, 1-14-69, Cl. 49-386.
Floehr, Walter L., to Midland-Ross Corporation. Pneumatic lading discharge device. 3,425,748, 2-4-69, Cl. 302-52.
Floehr, Walter L., to Midland-Ross Corporation. Railway hopper gate flexible operating assembly. 3,433,178, 3-18-69, Cl. 105-282.
Floehr, Walter L., to Unitcast Corporation. Hopper car door operating mechanism. 3,434,433, 3-25-69, Cl. 105-249.
Floehr, Walter L., to Midland-Ross Corporation. Gravity-pneumatic discharge assembly. 3,439,957, 4-22-69, Cl. 302-52.
Floehr, Walter L., to Midland-Ross Corporation. Hopper door operating mechanism. 3,440,761, 4-29-69, Cl. 49-109.
Floehr, Walter L., to Midland-Ross Corporation. Power actuated dual hopper door operating mechanism. 3,450,065, 6-17-69, Cl. 105-290.
Floehr, Walter L., to Midland-Ross Corporation. Multiple hopper door actuating mechanism. 3,455,253, 7-15-69, Cl. 105-251.
Floehr, Walter L., to Midland-Ross Corporation. Resilient gasket sealing discharge gate assembly. 3,472,178, 10-14-69, Cl. 105-282.
Floehr, Walter L. Cable drive discharge gate actuating assembly. 3,472,179, 10-14-69, Cl. 105-282.
Floehr, Walter L., to Midland-Ross Corporation, mesne. Railway hopper gate flexible operating assembly with resilient gate sealing means. 3,485,183, 12-23-69, Cl. 105-282.
Floehr, Walter L.; Hipp, James D.; and May, Ronald W., to Midland-Ross Corporation. Welded hopper gate outlet frame. 3,450,064, 6-17-69, Cl. 105-282.
Floessel, Carl-Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Pressure gas operated circuit breaker with pressurized contact chamber. 3,475,575, 10-28-69, Cl. 200-148.
Floessel, Carl-Dieter; and Mauthe, Gerhard, to Aktiengesellschaft Brown, Boveri & Cie. Gas blast circuit breaker with multiple interruption. 3,440,379, 4-22-69, Cl. 200-148.
Floessel, Dieter; and Mauthe, Gerhard, to Aktiengesellschaft Brown, Boveri & Cie. Contact arrangement for gas-blast circuit breakers. 3,424,884, 1-28-69, Cl. 200-148.
Flohr, William P., Jr., to Landis Tool Company. Work support shoe assembly. 3,431,681, 3-11-69, Cl. 51-103.
Flomatcher Co., Inc.: *See—*
Hyde, Paul E., 3,424,090.
Flomerfelt, Forrest N. Releasable handle clamp for mop frames. 3,440,677, 4-29-69, Cl. 15-144.
Flood, Carl A.: *See—*
Baines, Harry A.; and Flood, Carl A.,3,483,063.
Flood, Harold W.; Kusik, Charles L.; and Tremblay, Frank J., to Little, Arthur D., Inc. Processing of spent hydrochloric acid pickle liquor. 3,440,009, 4-22-69, Cl. 23-154.
Flood, Peter J. Bed headboard structure. 3,419,921, 1-7-69, Cl. 5-308.
Flook, William M., Jr., to Du Pont de Nemours, E. I., and Company. Apparatus for measuring yarn temperature. 3,465,589, 9-9-69, Cl. 73-355.
Flook, William M., Jr. Skid detecting device. 3,466,097, 9-9-69, Cl. 303-21.
Flora, Laurence H., to Tinnerman Products, Inc. Plastic fastener with curved entry shoulder in bore. 3,434,521, 3-25-69, Cl. 151-41.73
Flora, Laurence H., to Tinnerman Products, Inc. Fasteners. 3,478,395, 11-18-69, Cl. 24-73.
Florance, Douglas A. Beehive enclosure and method of enclosing a beehive. 3,438,070, 4-15-69, Cl. 6-1.
Florczak, Richard A., to Singer Company, The. Blade mounting for impact cutters. 3,430,592, 3-4-69, Cl. 112-252.
Florczak, Richard A., to Singer Company, The. Fabric folding unit. 3,486,470, 12-30-69, Cl. 112-147.
Floreen, Stephen: *See—*
Tuffnell, Glenn W.; and Floreen, Stephen,3,453,102.
Tuffnell, Glenn W.; Novak, Charles J.; and Floreen, Stephen,3,453,153.
Floreer, Lewis A. Base for coaxial cable coupling. 3,465,281, 9-2-69, Cl. 339-89.
Florek, Edward J.; De Paolo, Salvatore J.; O'Hare, Thomas F.; Haefeli, John E.; and Berenberg, Oscar, to Bendix Corporation, The. Integrity monitor and shaft position comparator. 3,482,231, 12-2-69, Cl. 340-198.
Floren, Carl E.: *See—*
Leopold, Wilbur R., Jr.; Floren, Carl E.; and Ammann, Paul R.,3,472,532.
Leopold, Wilbur R., Jr.; Smith, John J.; and Floren, Carl E.,3,460,553.
Floren, Holger S. Partial denture having pontic with hidden attachment. 3,435,525, 4-1-69, Cl. 32-7.
Florence, Donald M.: *See—*
Kautz, Wilbert G.; and Florence, Donald M.,3,465,774.
Florence, Jack M.: *See—*
Bishop, Frederic L.; Cook, Eugene M.; and Florence, Jack M.,3,475,150.
Florence, Robert T.: *See—*
Thomas, Richard Edward; Florence, Robert T.; and Shoemaker, Clarence J.,3,451,143.
Florentine, Frank P., Jr., to General Electric Company. Derivatives of 2,2'-dihydroxy-3,3'-dimethyl- diphenylmethane and process for preparing same. 3,439,047, 4-15-69, Cl. 260-619.
Florenza, Robert M.: *See—*
Broderick, John W.; Florenza, Robert M.; Kozar, Michael; and Lineman, Harry L.,3,472,376.
Florestano, Herbert J.: *See—*
Chandler, Arthur D., Jr.; and Florestano, Herbert J.,3,471,615.
Floret Felix; Mikailoff, Serge; and Peronneau, Georges, to Thomson Informatique & Visualisation T.I.V. Digital-code-extractor system. 3,466,608, 9-9-69, Cl. 340-167.
Floret, Felix: *See—*
Mikailoff, Serge; Peronneau, Georges; and Floret, Felix,3,466,614.
Florian, John: *See—*
Prussin, Sam; and Florian, John,3,442,424.
Florida General Electronics, Inc.: *See—*
Tanges, John H., Jr., 3,452,318.
Florida National Bank, administrator, C.T.A.: *See—*
Garrett, Leo Lawrence, deceased; and Florida National Bank, administrator, C.T.A.,3,430,935.
Florine, Robert T., to General Motors Corporation. Engine induction air flow control. 3,444,671, 5-20-69, Cl. 55-267.
Florio, Michael A. Orthopedic clamp. 3,469,573, 9-30-69, Cl. 128-92.
Florio, Sam A.; and Roberts, William J., to Eltra Corporation. Igniter and control means. 3,484,177, 12-16-69, Cl. 431-254.
Florjancic, Peter: *See—*
Mundt, Peter H. E.; and Florjancic, Peter,3,470,642.
Florkowski, John Anthony, to Juskevic, John A. Control device for alternately operating dual liquid filters. 3,477,577, 11-11-69, Cl. 210-108.
Florsheim, Leonard S., Jr.; and Hacker, Frederick W., to Robertson Photo-Mechanix, Inc. Multi-size sheet film feeding magazine for photo- graphic apparatus. 3,464,768, 9-2-69, Cl. 355-73.
Florus, Gerhard: *See—*
Spoor, Herbert; Florus, Gerhard; Pohlemann, Heinz; and Schauder, Friedrich,3,455,806.
Spoor, Herbert; Pohlemann, Heinz; Florus, Gerhard; and Schauder, Friedrich,3,454,482.
Flory, Donald M., to General Motors Corporation. Vehicle wheel brake antilock system and method. 3,441,320, 4-29-69, Cl. 303-21.
Flory, Donald M.: *See—*
Van House, Robert M.; and Flory, Donald M.,3,422,933.
Flory, John F.: *See—*
Mascenik, John; Flory, John F.; and Van Houten, Leonard E.,3,455,270.
Flory, Ralph H., to Frick Company. Separator for disentrainment of material from a gaseous fluid stream. 3,447,290, 6-3-69, Cl. 55-322.
Floss, Josef Georg: *See—*
Guthke, Harald; Wintersberger, Karl; Beck, Fritz; Floss, Josef Georg; and Habermann, Wolfgang,3,427,234.
Henkler, Herbert; Wilhelm, Hans; Floss, Josef Georg; Strehler, Hugo; and Brodt, Rudolf,3,486,903.
Wilhelm, Hans; Henkler, Herbert; and Floss, Josef Georg,3,486,891.
Floter, Manfred, to Gewerkschaft Eisenhutte Westfalia. Traveling support assembly for a longwall mining plow and conveyor. 3,482,878, 12-9-69, Cl. 299-32.
Flour City Architectural Metals: *See—*
Giger, Richard N., 3,466,819.
Flouret, George Rogelio; and Cole, John Wayne, to Abbott Laboratories. Aminoacylamidoandrostenes. 3,487,065, 12-30-69, Cl. 260-112.5
Flournoy, Norman E., Sr.; and Barnes, Vernon M., Jr., to Texaco Inc., mesne. Automatic actuating and control mechanism. 3,428,062, 2-18-69, Cl. 137-30.
Flow Laboratories, Inc.: *See—*
Welsh, John A.; and Johnson, Frederick H., Jr., 3,450,598.

Flower, Guiles, Jr.: *See—*
Figge, Frank H. J.; and Flower, Guiles, Jr.,3,474,777.
Flower, Maurice Shirley; and Gasson, Roy Alfred George, to Communications Patents Limited. Visual flight training apparatus. 3,422,207, 1-14-69, Cl. 35-10.2
Flower, Robert A.; Stavis, Gus; and Gamertsfelder, George R., to Singer-General Precision, Inc. Velocity measuring device. 3,432,237, 3-11-69, Cl. 356-28.
Flowers, Edward J.; and Joslin, Theodore E., 20% to Sevald, William T. Machines for forming and/or finishing metal workpieces and gears. 3,455,139, 7-15-69, Cl. 72-412.
Flowers, Henry Fort. Tilting dump car door hinge. 3,457,878, 7-29-69, Cl. 105-276.
Flowers, Leonard C.: *See—*
Berg, Daniel; and Flowers, Leonard C.,3,469,219.
Flowers, Leonard C.; and Berg, Daniel, to Westinghouse Electric Corporation. Graphitic oxide membrane for desalinating water. 3,457,171, 7-22-69, Cl. 210-23.
Dixon, Robert R.; and Flowers, Leonard C.,3,459,628.
Flowers, Ralph G.; and Sherer, Thomas L., to General Electric Company. Polyamide-acid amide-acid and polyimide-imide compositions. 3,468,852, 9-23-69, Cl. 260-78.
Flowers, Ralph G.; and Winter, Charles A., to General Electric Company. Electrical insulating composition. 3,442,834, 5-6-69, Cl. 260-19.
Flowers, Ralph G.: *See—*
Sherer, Thomas L.; and Flowers, Ralph G.,3,471,444.
Flowers, Theodore R., to Eversharp, Inc. Foam dispensing nozzle and foam dispenser with heating means. 3,446,401, 5-27-69, Cl. 222-146.
Flowers, Thomas Harold, to Her Majesty's Postmaster General. Time division multiplex telecommunication switching systems. 3,439,123, 4-15-69, Cl. 179-15.
Floxite Company, Inc.: *See—*
Fleming, John Stuart, 3,459,178.
Floyd, Don E.: *See—*
Arnold, Heinz B.; and Floyd, Don E.,3,423,480.
Floyd, Don E., to General Mills, Inc. Epoxy resin composition with ketimines as latent curing agents. 3,442,856, 5-6-69, Cl. 260-47.
Kamal, Marwan R.; and Floyd, Don E.,3,481,774.
Floyd, Elmer L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,583.
Floyd, George W., to Ex-Cell-O Corporation. Incremental displacement transducer circuits for errorless counting. 3,471,852, 10-7-69, Cl. 340-347.
Floyd, James C.; and Shell, Francis J., to Phillips Petroleum Company. Drilling fluids and additives therefor. 3,479,287, 11-18-69, Cl. 252-8.5
Floyd, John D.; and O'Connor, Martin J., to Hercules Incorporated. Fracturing fluid compositions. 3,458,442, 7-29-69, Cl. 252-8.55
Floyd, John D.; and O'Connor, Martin J., to Hercules Incorporated. Microbial polysaccharide gums as herbicide spray drift control agents. 3,484,229, 12-16-69, Cl. 71-93.
Floyd, Terence J., to Serck Industries Limited. Fluid power actuators. 3,481,253, 12-2-69, Cl. 92-64.
Floyd, Terence J.; and Warren, Henry Ray, to Serck Industries Limited RCA Corporation. Fluid power actuators Asynchronous drive system. 3,481,214, 12-2-69, Cl. 74-217.
Floymayr, Joachim, to Leybold-Heraeus G.m.b.H. & Co. KG. Coreless induction furnace and method of melting and stirring metals in this furnace. 3,472,941, 10-14-69, Cl. 13-26.
Flubacker, Charles H., to Scribe Internationale. Marking and indexing mechanism for magnetic recorder. 3,470,777, 10-7-69, Cl. 83-175.
Flucke, Winfried: *See—*
Fest, Christa; Hammann, Ingeborg; Stendel, Wilhelm; and Flucke, Winfried,3,478,037.
Fluckinger & Cie: *See—*
Schaffner, Hubert, 3,436,242.
Fluggeratewerk Bodensee GmbH: *See—*
Wilde, Kurt, 3,482,075.
Fluhr, Frederick R., to United States of America, Navy. Controlled analog differential-taking circuit. 3,424,987, 1-28-69, Cl. 328-127.
Fluhr, Frederick R., to United States of America, Navy. Field effect delay line. 3,436,689, 4-1-69, Cl. 333-31.
Fluhr, Frederick R.; and McLaughlin, Donald J., to United States of America, Navy. IFF active readout control and display system. 3,440,651, 4-22-69, Cl. 343-6.5
Fluid Controls, Inc.: *See—*
Bower, Allen M., 3,435,838.
De Marco, Robert F., 3,421,545.
Di Bartolo, Ernest A.; and Brown, Alan M., 3,482,525.
Tomer, Lewis P., 3,433,253.
Fluid Dynamics (Proprietary) Limited: *See—*
Turner, Lawrence Alexander, 3,477,579.
Fluid Energy Processing & Equipment Company: *See—*
Stephanoff, Nicholas N., 3,456,887.
Stephanoff, Nicholas N., 3,467,317.
Fluid Power Accessories, Inc.: *See—*
Weiss, Paul C., 3,429,232.
Fluidrive Engineering Company Limited: *See—*
Bilton, John, 3,485,328.
Bilton, John, 3,486,336.
Fluke, Jefferson M.: *See—*
Kaiser, Arthur E.; and Fluke, Jefferson M.,3,467,271.
Fluke, John, Mfg., Co., Inc.: *See—*
De Young, Malcolm W., 3,458,846.
Flum, Paul, Merchandising Ideas, Inc.: *See—*
Fowler, Dewalt W., 3,429,428.
Flume Stabilization Systems, Inc.: *See—*
Field, Sheldon B.; and Pangalila, Frans V. A., 3,422,781.
Pangalila, Frans V. A., 3,470,840.
Ripley, Kenneth Clay, 3,422,782.
Fluor Corporation, Ltd., The: *See—*
Schutt, Hermann C., 3,432,399.
Fluor Products Company, Inc.: *See—*
Furlong, Donn B.; Hallett, Glenn F.; and Kane, Warren F., 3,468,521.
Fluorodynamics, Inc.: *See—*
Chapman, Frank M.; and Chapman, Harry S., 3,426,118.
Chapman, Frank M.; and Chapman, Harry S., 3,426,119.
Fluoroware, Inc.: *See—*
Elftmann, Joel A., 3,473,670.
Flur, Barry L.: *See—*
Boudreaux, Lee J.; Flur, Barry L.; and Scow, Kenneth B.,3,470,020.
Flur, Barry L.; Davidse, Pieter D.; and Maissel, Leon I., to International Business Machines Corporation. Magnetic film device. 3,480,922, 11-25-69, Cl. 340-174.
Flurscheim, Cedric Harald, to Associated Electrical Industries Limited. Transporters. 3,420,541, 1-7-69, Cl. 280-43.23
Flury, Emil: *See—*
Ehrbar, Jakob; and Flury, Emil,3,463,062.
Flury, Erich: *See—*
Sigg, Hans-Peter; Flury, Erich; and Hauser, Daniel,3,428,652.
Flygt Corporation: *See—*
Englesson, Sixten, 3,427,982.
Flymo Societe Anonyme: *See—*
Svensson, Ernst Sture Lennart, 3,452,523.
Flynn, Charles S. Method of drying a foundry ladle. 3,436,065, 4-1-69, Cl. 263-52.
Flynn, Daniel M.; and Bandoski, Stanley J., Jr., to Clow, William R. Hampden Engineering Company Direct current power supply system for emergency lighting systems and the like. 3,421,066, 1-7-69, Cl. 320-6.
Flynn, Daniel M.; Bandoski, Stanley, Jr.; and Clow, William R., to Hampden Engineering Company. Standby electrical system and means for detecting defects therein. 3,473,041, 10-14-69, Cl. 307-64.
Flynn, Edwin H., to Lilly, Eli, and Company. Cephalosporin Cα derivatives. 3,449,338, 6-10-69, Cl. 260-243.
Flynn, Edwin H., to Eli Lilly, and Company. 7-Heteromonocyclic-substituted acylamido derivatives of desacetyl cephalosporaxic acid. 3,459,746, 8-5-69, Cl. 260-243.
Flynn, Gordon L.: *See—*
Farrington, John A., Jr.; Flynn, Gordon L.; Phillips, Stancel D.; and Scott, John V.,3,470,528.
Flynn, Jac B., to Hills-McCanna Company, mesne. Additive injection system. 3,455,321, 7-15-69, Cl. 137-101.21
Flynn, James P., to Dow Chemical Company, The. Treatment of earth surface and subsurface for prevention of acidic drainage from the soil. 3,443,882, 5-13-69, Cl. 21-58.
Flynn, John Barry, to Gillette Company, The. Dispensing device. 3,454,198, 7-8-69, Cl. 222-145.
Flynn, John Henry, IV: *See—*
Davenport, Buell Edward; Flynn, John Henry, IV; and Jacobs, Alfred,3,431,236.
Flynn, John H. Air-heating gas burner. 3,437,322, 4-8-69, Cl. 263-19.
Flynn, Kenneth L.: *See—*
Harelson, Robert G.; and Flynn, Kenneth L.,3,464,639.
Flynn, Michael J., to Wysocki, Kazmier. Rotary vertical labeling machine. 3,454,448, 7-8-69, Cl. 156-357.
Flynn, Paul D.; and Roll, Arthur A., to United States of America, Army. Photoelastic method for determining accurate values of stress concentration factors. 3,464,771, 9-2-69, Cl. 356-32.
Flynn, Paul D.; Roll, Arthur A.; and Gilbert, Joseph T., to United States of America, Navy. Dual-beam polariscope. 3,434,786, 3-25-69, Cl. 356-33.
Flynn, Roberta G. Portable folding gym. 3,472,509, 10-14-69, Cl. 272-60.
FMA, Inc.: *See—*
Anthony, Romuald, 3,453,043.
Cameron, John F.; and Fenn, George S., 3,484,751.
Harper, Jack R.; and Loughlin, James, 3,434,331.
Roulund, Poul B.; and Freeman, Peter D., 3,437,279.
F.M.C. (Australia) Limited: *See—*
Lee, Harold Barry, 3,434,630.

FMC Corporation: *See*—
Achenbach, Karl, 3,463,733.
Ager, John W., Jr., 3,435,082.
Alexander, Frank C., Jr., 3,451,296.
Anderson, Gerald R., 3,420,285.
Anderson, Gerald R., 3,424,216.
Bacon, Roger J., 3,469,376.
Bacon, Roger J., 3,478,448.
Bahlke, Allan R.; and Bloomquist, George W., 3,479,065.
Bailey, Kenneth E.; Frahm, Leland J.; and Leigh, Theodore M., 3,437,157.
Bartlett, David S., Jr., 3,473,658.
Bashenow, Alexander; and Volpatti, Ramon, 3,469,529.
Battista, Orlando A.; and Karasinski, Frank J., 3,431,090.
Battista, Orlando A.; Cruz, Mamerto M., Jr.; and Riley, Walter J., 3,443,261.
Battista, Orlando A., 3,458,393.
Battista, Orlando A., 3,471,598.
Battista, Orlando A.; and Karasinski, Frank J., 3,475,168.
Bauer, William C.; and Amano, Carl K., 3,429,693.
Beacham, Harry H.; Segro, Nicholas R.; and Thomas, James L., 3,483,158.
Beacham, Harry Hoyt; Kreinik, Jerry M.; and Thomas, James Larue, 3,441,535.
Belfort, Alan M., 3,442,676.
Belk, Wilber C., 3,429,257.
Belk, Wilber C., 3,434,583.
Belk, Wilber C.; Willis, Beuford N.; and Mulford, Charles T., 3,448,845.
Berticevich, Edward N.; and Billett, Ronald J., 3,473,659.
Betschart, Robert J., 3,424,290.
Betschart, Robert J., 3,434,711.
Bily, Peter J., 3,434,491.
Bily, Peter J., 3,434,497.
Bily, Peter J., 3,455,333.
Bily, Peter J., 3,461,924.
Bily, Peter J., 3,472,293.
Blochl, Walter, 3,423,443.
Blochl, Walter, 3,450,738.
Bloomquist, George W., 3,423,813.
Bockno, Gregory C.; Da Vincii, Anthony P.; and Schappel, Joseph W., 3,434,913.
Bode, James Daniel, 3,434,973.
Boeker, Roy A., 3,434,743.
Boissevain, Mathew G.; and Traube, Robert J., 3,458,062.
Boissevain, Mathew G., 3,479,280.
Boyce, John, 3,462,001.
Boyce, John, 3,469,691.
Boyce, John, 3,473,613.
Bradford, Jack A., 3,452,448.
Brenzel, Daniel J., 3,449,069.
Carlson, Otto K.; and Price, John A., 3,425,997.
Carter, Mary E.; and Price, John A., 3,425,995.
Carter, Mary E.; and Price, John A., 3,425,996.
Carter, Mary E.; and Price, John A., 3,451,970.
Carter, Mary E.; and Price, John A., 3,457,238.
Carter, Mary E.; and Price, John A., 3,479,324.
Chorney, Peter L., 3,420,455.
Cimlov, Boris, 3,442,305.
Conti, John D., 3,442,064.
Conti, John D., 3,467,566.
Cooley, Claiborn, Jr., 3,458,167.
Crawford, Donald C.; Viitanen, Veikko K.; and Hoffman, John D., 3,431,828.
Cruickshank, Philip A., 3,453,362.
Cruz, Mamerto M., 3,475,270.
Cruz, Mamerto M., 3,485,713.
Csimma, Sandor, 3,448,847.
Curphey, David G.; and Fowler, William J., 3,432,032.
Darbee, Leonard R.; and De Kleine, William C., 3,421,842.
Di Bello, Patrick M.; and Gancy, Alan B., 3,482,934.
Diamond, Louis H.; and Blumbergs, John H., 3,475,493.
Dietz, Thomas J.; and Meissner, William E., 3,460,198.
Du Fresne, Harold A., 3,457,657.
Dykeman, Edgar G. M., 3,478,897.
Elliott, James Carl; and Boyce, John, 3,443,689.
Esterly, Henry N., 3,470,359.
Faccou, Armand L., 3,420,555.
Felstehausen, Eugene F., 3,424,294.
Felstehausen, Eugene F., 3,452,389.
Felstehausen, Eugene F., 3,460,191.
Felstehausen, Eugene F., 3,461,483.
Felstehausen, Eugene F., 3,462,178.
Flint, Alan G., 3,420,392.
Fox, James H., 3,473,311.
Friedman, Louis D.; and Eddinger, Ralph Tracy, 3,453,202.
Fuchs, Robert J., 3,446,580.
Gallo, Jules R.; Smith, William W.; and Boissevain, Mathew G., 3,448,870.
Gardiner, Ralph G., 3,420,354.
Gee, James H., 3,443,526.
Gellatly, Robert K., 3,434,634.
Gerlach, Carl J., 3,457,692.
Ginnette, Lewis F.; and Scalf, William R., 3,430,454.
Godfrey, Leonard E. A.; and Garman, John A., 3,427,292.
Godfrey, Leonard E. A., 3,455,713.
Goldstein, David; and Gleason, Robert Joseph, 3,449,075.
Greedy, Edwin F., 3,420,312.
Greenspan, Frank P.; and Dupuis, Arthur V., 3,468,754.
Gresham, John Thomas, 3,442,142.
Haley, Frank, 3,473,830.
Haley, Harold A., 3,432,886.
Haley, Harold A., 3,461,500.
Hamilton, James P., 3,424,601.
Hanley, William M., 3,431,940.
Haver, William B., 3,471,013.
Haynes, Don A., 3,458,013.
Haynes, Don A., 3,461,729.
Hill, Frederick J., 3,462,978.
Hirahara, Katsuji, 3,446,259.
Hirahara, Katsuji, 3,467,156.
Hirahara, Katsuji, 3,471,298.
Hogya, Bernard J.; and Tillis, William J., 3,476,624.
Housworth, Gordon C., 3,420,498.
Hutchinson, Carl R., 3,424,478.
Jackson, Donald M.; and Gierut, Joseph F., 3,469,850.
Jameson, Neal E., 3,442,307.
Kaiser, Willard D.; and Monroe, Hanford D., 3,452,603.
Kappe, Stanley E., 3,477,947.
Keller, Henry G., 3,448,630.
Kincheloe, William L.; and Benton, Robert B., 3,429,262.
Kindron, Robert R.; and Houg, George W., 3,462,344.
Knapp, Kenneth W.; McCarthy, Michael J.; and Darbee, Leonard R., 3,441,388.
Knapp, Kenneth W.; and Thompson, John S., 3,468,803.
Knight, Floyd M., 3,443,487.
Koch, Mary J.; and Price, John A., 3,425,998.
Koch, Walter T., 3,447,948.
Koch, Walter T.; and Carevic, Frank E., 3,459,117.
Kreinik, Jerry M., 3,431,093.
Kreuz, Donald F.; and Kibbel, William H., Jr., 3,470,959.
Krusius, Ewald Henry, 3,451,938.
Kuzmak, Joseph M.; and Munoz, Wenceslao, 3,423,167.
Kuzmak, Joseph M.; and Schappel, Joseph W., 3,445,556.
Kuzmak, Joseph M., 3,475,357.
Lazarus, Allan K., 3,487,130.
Lee, Harold B., 3,434,585.
Lee, Nathan Dean; and Schwartz, Nelson Norman, 3,432,267.
Liao, Hsiang-Peng; Smith, Lawrence Alfred, Jr.; and Tuemmler, William B., 3,454,655.
Lill, Melvin H.; and Ellege, Weldon B., 3,461,618.
Lima, Daniel A.; and Hopper, Theodore R., 3,455,704.
Lima, Daniel A.; and Hamilton, James P., 3,481,894.
Liskey, George W., 3,423,839.
Looker, Olin L., 3,429,111.
Luhdorff, Robert C., 3,424,215.
Mac Kellar, Donald G.; Blumbergs, John H.; and von Falkenstein, Rainer, 3,485,869.
MacKellar, Donald G.; Blumbergs, John H.; and von Falkenstei, Rainer, 3,462,480.
Manfre, Ben L., 3,469,383.
McGee, Arthur L.; and Irving, Donald William, 3,446,255.
McGee, Arthur L., 3,446,257.
McGee, Arthur L., 3,448,567.
McGee, Arthur L., 3,462,063.
McLeod, James E.; Taborosi, Steve; Groening, Harvey F.; and Riechers, Harold D., 3,469,938.
Merigold, Charles Reynolds; and Bauer, William Charles, 3,478,597.
Monroe, Hanford D., 3,424,978.
Mumma, Harold J., 3,447,282.
Mumma, Harold J., 3,447,659.
Mumma, Harold J., 3,460,316.
Murrin, Julian Michael; and Olson, Raymond August, 3,453,274.
Naslund, Erik I., 3,483,877.
Neighbor, James B., 3,438,890.
Neumeyer, John L.; and Incho, Harry H., 3,485,916.
Oringer, Kenneth; Gallagher, Gerald T.; Bunin, Donald S.; and Easton, Bernard E., 3,432,546.
Pech, Allison E., 3,473,934.
Pepmeier, Carl R., 3,467,313.
Pepmeier, Carl R., 3,467,331.
Pointer, Paul H.; and Price, Connor E., 3,460,842.
Price, John A.; and Carlson, Otto K., 3,420,803.
Price, John A.; and Stewart, Mary J., 3,427,288.
Price, John A.; and Carlson, Otto K., 3,475,380.
Price, John A.; and Carter, Mary E., 3,475,381.
Putch, Samuel W., 3,420,308.
Putch, Samuel W.; and Eckert, Lawrence A., 3,424,477.
Radimer, Kenneth J., 3,470,044.
Radimer, Kenneth J., 3,475,242.

Redeker, Clark W.; and Schlosser, Ralph G., 3,482,493.
Reimers, James L., 3,434,582.
Reimers, James L., 3,452,858.
Rider, Osborne Lawrence, 3,445,312.
Riedeman, William L.; and Lupichuk, Andrew, 3,451,958.
Roberts, Thomas E., Jr.; and Houston, Robert K., 3,446,256.
Roberts, Thomas E., Jr.; and Billett, Ronald J., 3,452,789.
Roberts, Thomas E., Jr., 3,452,791.
Robertson, James A., 3,428,719.
Roscoe, Howard E.; and Nelson, Edgar L., 3,478,974.
Ross, John M., Jr.; and Levesque, Paul E., 3,449,261.
Ross, John M., Jr.; and Lima, Daniel A., 3,450,484.
Ryan, Daniel J.; and Armstrong, John J., Jr., 3,461,198.
Salo, Henry W.; Salo, Bruce H.; and Salo, William R., 3,447,988.
Samuel, Alan J., 3,420,204.
Sarian, Arlen K., 3,487,144.
Scalf, William R., 3,448,676.
Scharpf, William G., 3,468,913.
Scharpf, William G., 3,474,170.
Scharpf, William G., 3,474,171.
Schultz, Dennis R., 3,469,677.
Scott, Junius Denny, 3,474,316.
Seaborn, Paul E.; and Thompson, Wendell S., 3,434,595.
Seaborn, Paul E., 3,451,549.
Segro, Nicholas R.; and Hall, Eldon L., 3,425,970.
Slemmons, Arthur J., 3,452,702.
Spiegel, Milton; and Shepherd, John A., 3,457,167.
Sproul, Jared S.; McCarthy, Michael J.; and Lapple, Walter C., 3,437,433.
Sproul, Jared S.; and Lapple, Walter C., 3,437,434.
Start, John Francis; Seglin, Leonard; and Franko-Filipasic, Borivoj Richard, 3,423,330.
Stewart, Mary J.; and Price, John A., 3,438,944.
Stewart, Mary J.; and Price, John A., 3,438,945.
Stewart, Mary J.; and Carlson, Otto K., 3,444,140.
Stewart, Mary J.; and Price, John A., 3,451,972.
Stewart, Mary J.; and Price, John A., 3,451,973.
Stewart, Mary J.; and Price, John A., 3,454,531.
Stewart, Mary J.; and Price, John A., 3,457,239.
Stewart, Mary J., 3,462,391.
Stewart, Mary J.; and Carlson, Otto K., 3,475,371.
Stewart, Mary J.; and Price, John A., 3,475,382.
Suman, Robert W.; Stoddart, William D.; and Swartz, Horace M., 3,478,699.
Teske, Ernest H.; and Roscoe, Howard E., 3,458,147.
Thomas, James L., 3,455,888.
Thuse, Erik; and Hamilton, Clyde L., 3,473,605.
Ticknor, Leland B., 3,423,499.
Vadas, Leslie, 3,420,284.
Vadas, Leslie, 3,424,213.
Vadas, Leslie, 3,424,214.
Vadas, Leslie; and Drake, Robert W., 3,452,651.
Vadas, Leslie; and Drake, Robert W., 3,456,419.
Vadas, Leslie, 3,460,596.
Vadas, Leslie, 3,473,289.
Vandersyde, Francis E.; Roberts, Thomas E., Jr.; and McGee, Arthur L., 3,452,790.
Verrinder, Ernest A., 3,420,385.
Verrinder, Ernest A., 3,471,038.
Weber, Harry W., Jr., 3,455,961.
Weil, Theodor; and Stange, Hugo, 3,424,843.
Weil, Theodor; and Stange, Hugo, 3,469,005.
Weil, Theodor; and Stange, Hugo, 3,471,616.
Weir, Stanley M., 3,424,324.
Weir, Stanley M., 3,447,699.
West, Fred William; Gresham, John Thomas; and Weil, Theodore, 3,428,715.
Wheeler, Thomas Percy, 3,469,676.
Wilson, Kenneth R.; and Hill, Kenneth L., 3,434,822.
Winkler, Edwin, 3,434,584.
Yawger, Ernest S., 3,469,988.

Foard, William H., to Anaconda Company, The. Production of copper. 3,473,918, 10-21-69, Cl. 75-74.

F. Oberdorfer K.G.: *See—*
Schiel, Christian; and Bischoff, Gunther, 3,478,991.

Fobes, Alfred W.: *See—*
Mishkin, Abraham R.; Marsh, William C.; and Fobes, Alfred W.,3,451,823.

Focarile, Joseph P., to Bell Telephone Laboratories, Incorporated. Modular circuit assembly. 3,459,998, 8-5-69, Cl. 317-100.

Focella, Antonino: *See—*
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney,3,464,990.

Focella, Antonino; Gurien, Harvey; and Rachlin, Albert Israel, to Hoffmann-La Roche Inc. Process for producing methylhydrazine derivatives. 3,431,301, 3-4-69, Cl. 260-558.

Focella, Antonino; and Rachlin, Albert Israel, to Hoffmann-La Roche Inc. N-(2-propynyl) nitrogen-containing heterocyclic compounds. 3,446,797, 5-27-69, Cl. 260-239.3

Focke & Pfuhl: *See—*
Focke, Heinz; and Liedtke, Kurt, 3,439,473.

Focke, Heinz; and Liedtke, Kurt, to Focke & Pfuhl. Apparatus for wrapping rectangular packages. 3,439,473, 4-22-69, Cl. 53-234.

Focken, Heinz: *See—*
Hesse, Alfred; Focken, Heinz; and Bindel, Wolfgang,3,469,776.

Fodor, Lawrence M.: *See—*
Kahle, Gerald R.; and Fodor, Lawrence M.,3,479,330.
Kahle, Gerald R.; and Fodor, Lawrence M.,3,481,915.

Fodor, Lawrence M., to Phillips Petroleum Company. Process and catalysts for production of olefin polymers. 3,429,862, 2-25-69, Cl. 260-93.7

Fodor, Lawrence M., to Phillips Petroleum Company. Polymerization process and catalyst for olefins. 3,444,153, 5-13-69, Cl. 260-93.7

Fodroci, Michael P.: *See—*
Magnani, Seeley L.; Fodroci, Michael P.; and Flake, George H.,3,486,731.

Foell, Theodore J.; Rees, Richard W.; and Smith, Herchel, to American Home Products Corporation. 3-Desoxy steroidal-1,4-diene lactones and spiroethers. 3,455,909, 7-15-69, Cl. 260-239.55

Foell, Theodore J.: *See—*
Rees, Richard W.; Foell, Theodore J.; and Smith, Herchel,3,479,340.

Foerst, Reiner: *See—*
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner,3,447,066.

Foerster, Charles V., to Coast Metals, Inc. Method of joining carbide to steel. 3,444,613, 5-20-69, Cl. 29-473.1

Foerster, George S., to Dow Chemical Company, The. Water disintegrable lead shot. 3,463,637, 8-26-69, Cl. 75-167.

Foerster, George S.; and Ott, Jack J., to Dow Chemical Company, The. Processing lead alloy containing magnesium. 3,481,732, 12-2-69, Cl. 75-167.

Foerster, Roy P., to Bunker-Ramo Corporation, The. D.C. amplifier. 3,451,001, 6-17-69, Cl. 330-17.

Foerster, Roy P., to Bunker-Ramo Corporation, The. Forward biased phototransistor with exposed base. 3,465,158, 9-2-69, Cl. 250-211.

Foerster, Roy P., to Bunker-Ramo Corporation, The. Circuit apparatus for detecting recurring input signals within a wide amplitude range. 3,465,169, 9-2-69, Cl. 307-235.

Foersterling, Vernon H. Platen reversing means for a printing apparatus. 3,438,477, 4-15-69, Cl. 197-114.

Foex, Marc: *See—*
Anthony, Anne-Marie nee Barbier; Foex, Marc; and Yerouchalmi, David,3,475,352.

Foex, Marc; and Delmas, Robert, to Centre National de la Recherche Scientifique. Process for obtaining a permanent flow of plasma. 3,476,907, 11-4-69, Cl. 219-121.

Fog, Mogens H., to Smidth, F. L., & Co. Rotary kiln and cooler operation. 3,475,013, 10-28-69, Cl. 263-32.

Fogarty, Charles P. Space delivery system. 3,478,986, 11-18-69, Cl. 244-1.

Fogarty, Thomas J., to Edwards Laboratories, Inc. Embolectomy catheter. 3,435,826, 4-1-69, Cl. 128-348.

Fogarty, Thomas J. Umbrella catheter. 3,472,230, 10-14-69, Cl. 128-328.

Fogarty, Thomas J.; Raible, Donald A.; and Stark, William A. Balloon catheter. 3,467,101, 9-16-69, Cl. 128-348.

Fogarty, Thomas J.; and Stark, William A., to Edwards Laboratories, Inc. Leader type catheter. 3,467,102, 9-16-69, Cl. 128-348.

Fogelberg, Clement V., to Ball Brothers Research Corporation. Extrusion method and apparatus. 3,431,599, 3-11-69, Cl. 18-12.

Fogelberg, Clement V.; and Erickson, Lowell H., to Ball Brothers Company Incorporated. Apparatus for programming parisons. 3,466,704, 9-16-69, Cl. 18-14.

Fogelberg, Clement V.; and Hough, William D., to Ball Brothers Company, Incorporated. Method for the manufacture of hollow plastic articles. 3,465,073, 9-2-69, Cl. 264-99.

Fogels, Mintauts W.: *See—*
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W.,3,434,270.
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W.,3,434,271.

Fogg, David B.: *See—*
Bacon, Robert E.; and Fogg, David B.,3,425,857.

Fogg, Edward: *See—*
Harson, Samuel Edward; and Fogg, Edward,3,467,683.

Fogg, Robert E., to Du Pont de Nemours, E. I., and Company. Method for making bags from tubular netting. 3,447,990, 6-3-69, Cl. 156-269.

Fogg, Walter K. Lever dolly. 3,467,405, 9-16-69, Cl. 280-47.24

Fogle, Richard J. Stereoscopic and microscopic binocular. 3,434,772, 3-25-69, Cl. 350-35.

Fogle, William B.: *See—*
Bitter, Kenneth D.; Atkinson, George E.; and Fogle, William B.,3,433,082.

Fogleman, Carroll L.: *See—*
Brignac, Ron R., 3,462,139.

Fogleman, Edgar L.; and Sterne, Robert H., Jr., to Lukens Steel Company. Free machining steels. 3,424,576, 1-28-69, Cl. 75-123.
Fogler, Henry Harrison: *See—*
Allentoff, Norman; and Fogler, Henry Harrison,3,477,852.
Foglia, Andrew J.; and Feiter, Joseph J., Jr., to Mobil Oil Corporation. Floor tile compositions containing blends of stereoregular polyolefins as the binder. 3,440,208, 4-22-69, Cl. 260-41.
Foglia, Andrew J.; Stancell, Arnold F.; and Mc Gowan, Raymond J., to Mobil Oil Corporation. Polymerization of olefins in a gravitating bed. 3,440,238, 4-22-69, Cl. 260-94.9
Foglia, Andrew J.: *See—*
Limbach, Anthony Paul; and Foglia, Andrew J.,3,448,775.
Foglia, Henry R., to International Business Machines Corporation. Current summing arrangement for a magnetic core memory. 3,432,835, 3-11-69, Cl. 340-174.
Fogt, Thomas H.: *See—*
Brinkman, Thomas J.; Fogt, Thomas H.; Long, George B.; and Whistler, Charles C., Jr.,3,475,829.
Fohl, Timothy, to Stubbs, Harry Eugene. Depth controlling device. 3,460,384, 8-12-69, Cl. 73-170.
Fohlen, George M.: *See—*
Ross, Richard J.; and Fohlen, George M.,3,478,099.
Fohrman, Seymour F. Combination salt and pepper shaker. 3,485,416, 12-23-69, Cl. 222-142.1
Fohrman, Seymour: *See—*
Gorman, Harry; and Fohrman, Seymour,3,463,303.
Fohrmann, Ernest F.; Scoles, David A.; Cochran, Benjamin T.; and Dick, John O., to United States of America, Navy, mesne. Contact fuzing system. 3,440,961, 4-29-69, Cl. 102-70.2
Foist, Joseph E.; and Matthews, Chester J., to Toledo Stamping & Manufacturing Company. Stamping apparatus. 3,473,425, 10-21-69, Cl. 83-129.
Fojanesi, Alessandro: *See—*
Giraldi, Pier Nicola; Lauria, Francesco; Fojanesi, Alessandro; Nannini, Giuliano; and Logemann, Willy,3,458,533.
Fokker, Herman: *See—*
Meijer, Roelf Jan; Fokker, Herman; and van Witteveen, Roland Anton Johan Otto,3,456,438.
Folan, Martin P.: *See—*
Moore, Douglas A.; and Folan, Martin P.,3,471,652.
Folbrecht, Melvin T. Manual-electric fishing reel. 3,460,778, 8-12-69, Cl. 242-84.2
Foldes, Gabriel F., to Foster Wheeler Corporation. Start-up system for once through boilers. 3,472,207, 10-14-69, Cl. 122-406.
Foldes, Peter, to Radio Corporation of America. Scanning antenna feed. 3,423,756, 1-21-69, Cl. 343-775.
Foldes, Stephen, to General Electric Company. Tungsten-hafnium-oxygen alloys. 3,434,811, 3-25-69, Cl. 29-182.5
Foldes, Stephen, to General Electric Company. Tungsten-base alloys. 3,441,391, 4-29-69, Cl. 29-182.5
Foldes, Stephen; and Levinstein, Moses A., to General Electric Company. Method for forming an oxidation resistant coating on a substrate. 3,420,689, 1-7-69, Cl. 117-22.
Foldessy, Justin E., to United States Steel Corporation. Apparatus for bending a casting having a liquid core. 3,447,591, 6-3-69, Cl. 164-282.
Folding Cartons, Inc.: *See—*
Cannon, Lester E.; Tindall, John M.; and Taylor, Howard N., 3,474,594.
Folds, Donald L.; Brown, David H.; and Warner, Henry L., to United States of America, Navy. Transducer. 3,483,504, 12-9-69, Cl. 340-8.
Foldway Covers Limited: *See—*
Folkes, David, 3,469,587.
Foley, Charles F. Secret release handcuffs. 3,423,871, 1-28-69, Cl. 46-1.
Foley, Charles F.; and McCarthy, Charles D., to Bradley, Milton, Company. Game apparatus comprising removable mats and method of playing a game therewith. 3,484,106, 12-16-69, Cl. 273-1.
Foley, Charles F.; and Rabens, Neil W., to Bradley, Milton, Company, mesne. Apparatus for playing a game wherein the players constitute the game pieces. 3,454,279, 7-8-69, Cl. 273-134.
Foley, Ernest; and Herwig, George L., to Conzinc Riotinto of Australia Limited, and Commonwealth Scientific and Industrial Research Organization. Production of aluminum and aluminum alloys from aluminum chloride. 3,464,900, 9-2-69, Cl. 204-67.
Foley, Gerard M., to Leeds & Northrup Company. High-speed measuring systems and methods. 3,447,089, 5-27-69, Cl. 328-151.
Foley, James J.: *See—*
Mellor, Clarence Howard; and Foley, James J.,3,466,200.
Foley, James P. Bracket mounted telephone index device. 3,436,855, 4-8-69, Cl. 40-336.
Foley, James P. Telephone index devices. 3,452,465, 7-1-69, Cl. 40-336.
Foley, Joseph: *See—*
Hetherington, Richard; and Foley, Joseph,3,423,311.
Foley, Norman G. Electric hair dryer. 3,476,121, 11-4-69, Cl. 132-9.
Foley, Preston R., Jr.: *See—*
Wakefield, Timothy A.; and Foley, Preston R., Jr.,3,465,890.
Foley, Thomas P., to Potter Instrument Company, Inc. Fluid flow measuring device. 3,442,125, 5-6-69, Cl. 73-228.
Foley, Thomas P., to Potter Instrument Company, Inc. Clamping device and method. 3,483,285, 12-9-69, Cl. 264-146.
Foley, Thomas P.; and Quick, Stanley L., to Westinghouse Electric Corporation. Self-leveling land or underwater station. 3,466,877, 9-16-69, Cl. 61-46.
Foley, Thomas P.: *See—*
Potter, John T.; Foley, Thomas P.; and Antonucci, Carmine J.,3,467,234.
Foley, William H.: *See—*
Thompson, Alfred R., Jr.; and Foley, William H.,3,480,573.
Folger Coffee Company, The: *See—*
Bergeron, Robert J.; Hair, Eddy R.; and Joffe, Frederick M., 3,436,227.
Niven, William W., Jr., 3,458,320.
Folino, Arthur S. Process of printing numbers on forms. 3,421,752, 1-14-69, Cl. 270-1.
Folk, Lee E.: *See—*
Christy, Harold L.; and Folk, Lee E.,3,460,238.
Folk, Lee E., to Motorola, Inc. Reciprocating bearing assembly having roller- bearing wheels on a bearing rod. 3,427,080, 2-11-69, Cl. 308-6.
Folkenroth, Earl Earnest: *See—*
Dell, Harry John; Folkenroth, Earl Earnest; and Garver, William Joseph,3,424,416.
Folkert, Incorporated: *See—*
Folkerts, Henry, 3,485,512.
Folkerth, Ilden R.: *See—*
Barkalow, Clare E.; and Folkerth, Ilden R.,3,461,861.
Folkerts, Henry. Tractor hitch for draft implement. 3,435,902, 4-1-69, Cl. 172-239.
Folkerts, Henry, to Folkert, Incorporated. Tractor hitch for towed implements. 3,485,512, 12-23-69, Cl. 280-406.
Folkerts, Walter E., to Chrysler Corporation. Power steering gear. 3,422,698, 1-21-69, Cl. 74-497.
Folkes, David, to Foldway Covers Limited. Collapsible weatherproof cover for swimming pools. 3,469,587, 9-30-69, Cl. 135-1.
Follansbee, Lewis A. Apparatus for providing a controlled environmental habitat for aquatic organisms. 3,460,514, 8-12-69, Cl. 119-5.
Follen, Robert J.; and Thue, Baard H., to Honeywell Inc. Terrain warning radar with side lobe gain control. 3,467,961, 9-16-69, Cl. 343-6.
Follis, Dale C.; and Lampman, Duncan L., to Diagraph-Bradle Industries, Inc. Web feed roll for label printer. 3,460,474, 8-12-69, Cl. 101-227.
Follmann, Hartmut: *See—*
Witzel, Herbert; and Follmann, Hartmut,3,467,648.
Follmer, Richard W.: *See—*
Burge, Joseph C.; and Follmer, Richard W.,3,458,118.
Follrath, Jack K.: *See—*
Burks, Howard L., 3,441,034.
Folsom, Allan G.; and Perron, Peter J., to General Tire & Rubber Company, The. Method of producing low density rigid sheets of synthetic plastic. 3,463,687, 8-26-69, Cl. 156-79.
Folsom, Floyd P.; and Tramuta, Salvatore S., to General Motors Corporation. Heat exchanger of plate fin modules. 3,460,611, 8-12-69, Cl. 165-166.
Foltz, Daniel M.: *See—*
Baker, William E.; and Foltz, Daniel M.,3,437,928.
Foltz, Donald M. Wire type pasture fence gate. 3,450,187, 6-17-69, Cl. 160-328.
Foltz, Elwood L.: *See—*
Nelson, Carl E.; Baer, John E.; and Foltz, Elwood L.,3,476,858.
Foltz, Robert E., to Lawrence Brothers, Inc. Track supports. 3,431,585, 3-11-69, Cl. 16-94.
Foltz, Robert E., to Lawrence Brothers, Inc. Latch assembly. 3,433,518, 3-18-69, Cl. 292-238.
Foltz, Robert E., to Lawrence Brothers, Inc. Mounting assembly. 3,436,047, 4-1-69, Cl. 248-317.
Foltz, Robert E., to Lawrence Brothers, Inc. Hinge structure. 3,465,380, 9-9-69, Cl. 16-136.
Foltz, Robert E., to Lawrence Brothers, Inc. Track mounting bracket. 3,468,509, 9-23-69, Cl. 248-316.
Foltz, Robert E., to Lawrence Brothers, Inc. Floating pin arrangement for a butt hinge. 3,475,784, 11-4-69, Cl. 16-169.
Folz, John M., to Phillips Petroleum Company. Hydrocarbon diluent purification. 3,423,386, 1-21-69, Cl. 260-94.3
Folz, John M., to Phillips Petroleum Company. Butene-1 purification. 3,431,315, 3-4-69, Cl. 260-677.
Folz, John M., to Phillips Petroleum Company. Recovery of furfural from furfural polymer by successive extractions with a hydrocarbon and with water. 3,432,569, 3-11-69, Cl. 260-680.
Fomm, Karl. Device and method for rounding book covers. 3,460,174, 8-12-69, Cl. 11-5.
Fonarev, Konstantin Stepanovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin

Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Fonda, Albert G. Steering and directing mechanism. 3,456,752, 7-22-69, Cl. 180-79.2
Fonda-Bonardi, Giusto, to Litton Systems, Inc. Articulated joint. 3,421,158, 1-14-69, Cl. 2-2.1
Fonda-Bonardi, Giusto, to Litton Systems, Inc. Rotary joint. 3,466,061, 9-9-69, Cl. 285-95.
Fonda, John R. Pump and storage chambers for preventing back siphonage. 3,463,094, 8-26-69, Cl. 103-195.
Fonda-Bonardi, Giusto: *See—*
Penfold, Alan S.; and Fonda-Bonardi, Giusto,3,442,758.
Fong, Joseph C. Lighted, rotating toy. 3,484,987, 12-23-69, Cl. 46-228.
Fong, Kouan, to General Electric Company. Channel synchronizer for multiplex pulse communication receiver. 3,462,551, 8-19-69, Cl. 178-69.5
Fong, Kouan, to General Electric Company. Frequency shifted sliding tone sampled data communication system. 3,484,693, 12-16-69, Cl. 325-30.
Fong, William: *See—*
Rawcliffe, Gordon H.; and Fong, William,3,450,971.
Fong, Willie; Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A., to United States of America, Agriculture. Shrinkproofing of wool top by using process of interfacial polymerization. 3,477,803, 11-11-69, Cl. 8-127.6
Font, Brunson Bert, to McCulloch Corporation. Chain saw guide bar and its method of fabrication. 3,485,276, 12-23-69, Cl. 143-32.
Fontaine, Andre J.: *See—*
Papelian, Roger G.; and Fontaine, Andre J.,3,442,300.
Fontaine, John G., to Automatic Displays, Inc. Electrical control means for a changeable exhibitor. 3,434,007, 3-18-69, Cl. 315-119.
Fontaine, John G., to Automatic Displays, Inc. Illuminating control means. 3,457,457, 7-22-69, Cl. 315-209.
Fontaine, John G. Brake Control means for vehicles. 3,487,451, 12-30-69, Cl. 303-19.
Fontaine, Lamar. Concrete form apparatus. 3,450,380, 6-17-69, Cl. 249-45.
Fontaine, Laurent J., to Bell Telephone Company of Canada. Service observing system. 3,430,009, 2-25-69, Cl. 179-175.1
Fontaine, Leon, to Fabrique Nationale d'Armes de Gerre, Societe Anonyme. Automatic device for transferring a rib end from a needle row of a flat knitting machine to a loop transfer reed. 3,446,042, 5-27-69, Cl. 66-148.
Fontaine, Marc F.: *See—*
Haynes, Stewart, Jr.; and Fontaine, Marc F.,3,476,183.
Heisler, Robert Y.; Dille, Kenneth L.; Fontaine, Marc F.; and Eckert, George W.,3,421,867.
Fontaine, Robert R.: *See—*
Raffel, Jerome M.; and Fontaine, Robert R.,3,482,089.
Fontana, Ralph G. Handtool for adjusting dentures. 3,460,256, 8-12-69, Cl. 32-40.
Fontana, Raymond Peter, to Duro-Test Corporation. Socket and base for lamps. 3,426,314, 2-4-69, Cl. 339-75.
Fontanella, Luigi: *See—*
Testa, Emilio; and Fontanella, Luigi,3,452,000.
Fontein, Freerk J.; Loonen, Hendrik E.; and Creuels, Frans H., to Stamicarbon N.V. Movable face support. 3,447,327, 6-3-69, Cl. 61-45.
Fontenot, Frank C.: *See—*
Franks, Robert L., Jr.; and Fontenot, Frank C.,3,449,860.
Fontijn, Wilhelmus J.; and van Drunen, Korstiaan J. M., to American Enka Corporation. Multifilament yarns for reinforcing elastic articles. 3,447,308, 6-3-69, Cl. 57-140.
Fontlladosa, Enrique Bernat. Display container. 3,431,041, 3-4-69, Cl. 312-284.
Food Equipment Development Corporation: *See—*
Morine, Richard L., 3,474,893.
Food Products, Inc.: *See—*
Stephens, George R., 3,485,671.
Food Systems, Inc.: *See—*
Nurick, Raymond G., 3,451,577.
Foody, Raymond O.; and Botefuhr, Harold Raymond, to Murphy, G. W., Industries, Inc. Belt sander. 3,465,479, 9-9-69, Cl. 51-148.
Foor, Sanford Wayne, to Eastman Kodak Company. Multiple strip leader. 3,462,054, 8-19-69, Cl. 226-91.
Fooshe, Wesley K., Jr.: *See—*
Reynolds, Linton C.; Clifford, Alfred T.; Fooshe, Wesley K., Jr.; and Thomson, Stewart M.,3,425,856.
Foot, George O., to Cosmocard, Limited. Gramophone pickups. 3,424,466, 1-28-69, Cl. 274-36.
Foot, John Rodney: *See—*
Farkas, Ferenc Karoly; Walbridge, Derek John; and Foot, John Rodney,3,433,753.
Foote, Allan E.: *See—*
Drnec, Harry F.; and Foote, Allan E.,3,424,369.
Van Saun, Raymond H.; and Foote, Allan E.,3,437,198.
Foote, Daniel J., to Master Lock Company. Laminated padlocks with removable cylinder mechanisms. 3,422,643, 1-21-69, Cl. 70-38.
Foote, Daniel J., to Master Lock Company. Interlocking plate assembly for laminated padlock bodies. 3,422,644, 1-21-69, Cl. 70-38.
Foote, Daniel J., to Master Lock Company. Detachable locking devices. 3,423,968, 1-28-69, Cl. 70-14.
Foote, Daniel J., to Master Lock Company. Auxiliary locking spring equipped tamper-proof padlock. 3,423,969, 1-28-69, Cl. 70-38.
Foote, Daniel J., to Master Lock Company. Padlock with tapered shackle leg. 3,473,352, 10-21-69, Cl. 70-38.
Foote, Daniel J., to Master Lock Company. Padlocks with dual locking lever mechanisms. 3,475,930, 11-4-69, Cl. 70-38.
Foote, Daniel J., to Master Lock Company. Padlock shackle guards. 3,475,931, 11-4-69, Cl. 70-54.
Foote, Daniel J., to Master Lock Company. Hasp staple and plate assembly. 3,476,429, 11-4-69, Cl. 292-281.
Foote, Daniel J.: *See—*
Owen, Roger L.; and Foote, Daniel J.,3,453,846.
Soref, Samuel M.; and Foote, Daniel J.,3,453,758.
Foote, Francis S., Jr.: *See—*
McCune, Thomas W.; and Foote, Francis S., Jr.,3,442,394.
Foote, J. B., Foundry Co., The: *See—*
Hauser, Hans, 3,485,329.
Foote, James E., to Diamond International Corporation. Food container. 3,450,326, 6-17-69, Cl. 229-2.5
Foote, James E., to Diamond International Corporation. Container. 3,468,468, 9-23-69, Cl. 229-14.
Foote, Kenneth R.; and Haldeman, John W., to United States of America, Navy. Welch plug. 3,486,656, 12-30-69, Cl. 220-47.
Foote Mineral Company: *See—*
Beumel, Oscar F., Jr.; Smith, William Novis, Jr.; and Harris, Robert F., 3,460,919.
Beumel, Oscar Francis, Jr., 3,446,860.
Gullett, David E.; and Reynolds, Edmond F., 3,477,937.
Lynch, Dunstan W. P., 3,445,223.
Rathmann, Heinrich W.; and Rasmussen, Robert T. C., 3,420,659.
Rathmann, Heinrich W., 3,460,937.
Scheer, Charles L., 3,420,758.
Smith, William Novis, Jr., 3,420,903.
Smith, William Novis, Jr., 3,446,588.
Foote, Philip H., to Blessings, Inc. Disposable diaper. 3,461,871, 8-19-69, Cl. 128-284.
Foote, Richard H., to International Telephone and Telegraph Corporation. Apparatus and method for testing linearity of a sawtooth waveform signal. 3,424,940, 1-28-69, Cl. 315-27.
Foote, Richard H.; and Figgins, Donald A., to United States of America, National Aeronautics and Space Administration. Adaptive system and method for signal generation. 3,484,712, 12-16-69, Cl. 331-18.
Foote, Richard H.; and Holmquist, John A., to International Telephone and Telegraph Corporation. Stairstep function generator circuit. 3,422,363, 1-14-69, Cl. 328-186.
Foote, Russell A., Sr. Spinner game including a standard deck of cards. 3,448,983, 6-10-69, Cl. 273-135.
Foote, Terence Roy Denis, to Rolls-Royce Limited, mesne. Jet propulsion engines. 3,456,664, 7-22-69, Cl. 137-15.2
Foote, Timothy C.; and Buchmann, Kenneth H., to Master Lock Company. Adjustable gun trigger locks. 3,422,560, 1-21-69, Cl. 42-70.
Foran, Nicholas A.; and Collingwood, James R., to Worthington Corporation. Compressed gas expander cooling apparatus. 3,483,854, 12-16-69, Cl. 123-119.
Forano Limited: *See—*
Bilocq, Georges A., 3,420,590.
Bilocq, Georges A., 3,443,676.
Foras, Bernard, to Plastugil. Apparatus for eliminating volatile constituents in various compositions. 3,442,065, 5-6-69, Cl. 55-191.
Forbes, Alan D.; and Gould, Patrick, to British Petroleum Company Limited, The. Synthetic lubricant composition of improved oxidation stability. 3,422,014, 1-14-69, Cl. 252-37.
Forbes, Arthur Stuart: *See—*
Diprose, Kenneth Victor; and Forbes, Arthur Stuart,3,431,419.
Forbes, Fred W.: *See—*
Allinikov, Sidney; and Forbes, Fred W.,3,466,220.
Forbes, George, to British Petroleum Company Limited, The. Fixed-bed catalytic operations. 3,431,084, 3-4-69, Cl. 23-288.
Forbes, John P.; and Godin, Raphael W., to Ilco Corporation. Mortise lock construction. 3,455,129, 7-15-69, Cl. 70-370.
Forbes, Luther C.Painter's pot and brush support. 3,462,109, 8-19-69, Cl. 248-210.
Forbes, Norman A., to American Standard Inc. Boiler temperature modulating control. 3,421,691, 1-14-69, Cl. 236-9.
Forbes, Norman A., to American Radiator & Standard Stanitary Corporation. Combustion control circuit. 3,423,158, 1-21-69, Cl. 431-46.
Forbes, Norman A., to American Standard Inc. Proximity-flushed urinal. 3,434,164, 3-25-69, Cl. 4-100.

Forbes, Norman A., to American Standard Inc. Fail-safe differential temperature control system. 3,439,226, 4-15-69, Cl. 317-41.
Forbes, William N., to Stanley Works, The. Power operated closure mechanism. 3,470,652, 10-7-69, Cl. 49-2.
Forbro Design Corporation: *See—*
Hung, Han-Min, 3,449,634.
Hung, Han-Min, 3,480,852.
Forbush, Dellis R. Fan-propelled merry-go-round. 3,455,549, 7-15-69, Cl. 272-41.
Forbush, Lothrop M., to General Motors Corporation. Slotted retainer for bolt head. 3,430,674, 3-4-69, Cl. 151-41.7
Force Limited: *See—*
Adkins, John S., 3,450,238.
Force, Raymond G. Hitch pin construction. 3,429,586, 2-25-69, Cl. 280-515.
Forcier, Edward C., to Micro Tech Mfg., Inc. Wafer dicer. 3,435,815, 4-1-69, Cl. 125-16.
Forcier, Fred A. Mechanical guard lifter. 3,441,067, 4-29-69, Cl. 143-159.
Ford, Allen G.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,591.
Ford, Allen G.; and Wilson, Robert A., to United States of America, Navy. Rigid/non-rigid sideboard captured air bubble vehicle. 3,483,839, 12-16-69, Cl. 114-67.
Ford, Bruce; and Swisher, Stanley A., to Youngstown Sheet and Tube Company, The. Clamps for molds. 3,421,184, 1-14-69, Cl. 18-43.
Ford, Charles R.; DeHaven, Oliver S.; and Percifield, Edward K., to Carlisle Corporation, mesne. Differential assembly. 3,470,768, 10-7-69, Cl. 74-713.
Ford, David Julian: *See—*
Pearson, Arthur Stanley; and Ford, David Julian,3,476,008.
Ford, Ernest C., Jr.; and Zech, John D., to Atlas Chemical Industries, Inc. Process for preparing unsaturated polyesters by reacting oxyalkylated phenols with HCHO and further reacting the resultant product with unsaturated dicarboxylic acids or anhydrides. 3,458,477, 7-29-69, Cl. 260-52.
Ford, Floyd E., to United States of America, Navy. Constant current sink circuit. 3,432,743, 3-11-69, Cl. 323-3.
Ford, Floyd E.; Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O., to United States of America, Navy. Automatic formation cycler and controller for electrochemical cells. 3,470,441, 9-30-69, Cl. 320-6.
Ford, Floyd E.; Liwski, Piotr P. M.; Potter, Nelson H.; and Sizemore, Kenneth O., to United States of America, Navy. Shunt charge current controller for sealed electrochemical cells with control electrodes. 3,447,059, 5-27-69, Cl. 320-27.
Ford, Floyd E.; and Sizemore, Kenneth O., to United States of America, Navy. Nickel-cadmium battery reconditioner. 3,454,859, 7-8-69, Cl. 320-6.
Ford, Francis L. Fence structure. 3,439,455, 4-22-69, Cl. 49-381.
Ford, Frank Peter; and Bassett, Kirk Walter, to Rice Barton Corporation. Turret unwinder. 3,460,775, 8-12-69, Cl. 242-58.3
Ford, Gadsen M., Jr.: *See—*
Van Scoy, Davis A.; and Ford, Gadsen M., Jr.,3,473,550.
Ford, Harvey J.: *See—*
Lewis, George D.; and Ford, Harvey J.,3,483,698.
Ford, Holland C., to United States of America, Navy. Apparatus for electron smoothing in image dissector tubes. 3,437,752, 4-8-69, Cl. 178-7.87
Ford, John A., Jr.; and Wilson, Charles V., to Eastman Kodak Company. 3-Cyano 2(5H) furanones and their preparation. 3,468,912, 9-23-69, Cl. 260-343.6
Ford, John C. Tortilla oven. 3,478,704, 11-18-69, Cl. 107-55.
Ford, John Frederick; and Wood, John Michael, to British Petroleum Company Limited, The. Reaction product of olefin and phosphorus halide in the presence of Friedel-Crafts catalysts. 3,484,373, 12-16-69, Cl. 252-32.5
Ford, Johnny S. License plate holder. 3,432,954, 3-18-69, Cl. 40-202.
Ford, Lionel Houston, to United Kingdom Atomic Energy Authority. Method of producing a nuclear reactor fuel element. 3,480,702, 11-25-69, Cl. 264-0.5
Ford Motor Company: *See—*
Allison, William D., 3,446,514.
Allison, William D., 3,486,575.
Alonzo, Richard L.; Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N., 3,481,729.
Alonzo, Richard L.; and Augustin, Eugene H., 3,486,869.
Ancliff, Walter A., 3,423,973.
Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N., 3,486,876.
Bajer, Jacques J., 3,462,197.
Barnes, John V., 3,424,277.
Barnes, John V.; and Sampietro, Achille C., 3,451,497.
Barton, David W., 3,432,200.
Barton, David W.; and Russell, Richard G., 3,451,288.
Barton, David W., 3,477,549.
Basler, Wayne G.; Coburn, Kenneth E.; Greenler, Robert J.; and Thompson, Robert J., 3,481,728.
Beck, Jerry G., 3,468,652.
Bertelson, Peter C.; and Sobkow, William, 3,428,362.
Beyer, Gerald E., 3,444,700.
Beyer, Gerald E.; and Phaneuf, Charles H., 3,456,572.
Beyer, Gerald E., 3,461,791.
Beyer, Gerald E.; and Holka, Thomas C., 3,468,576.
Beyer, Gerald E.; and Holka, Thomas C., 3,486,764.
Biro, Steven E., 3,473,403.
Boaz, Premakaran T., 3,468,650.
Boaz, Premakaran T., 3,468,651.
Bogart, Harold N., 3,444,611.
Bookout, Charles C.; and Kaptur, Robert E., 3,424,284.
Bookout, Charles C., 3,439,557.
Bookout, Charles C., 3,446,095.
Bookout, Charles C.; and Moan, Richard D., 3,470,693.
Bookout, Charles C., 3,473,412.
Bracey, Robert A.; Glossop, Donald L., Jr.; Hayosh, Robert J.; and Palazzolo, Joseph A., 3,473,842.
Bray, Stewart V., 3,451,110.
Bremer, James A., 3,440,988.
Brewer, George E. F.; and Burnside, Gilbert L., 3,444,063.
Brewer, George E. F.; Burnside, Gilbert L.; Mohar, Arnulf F.; and Strosberg, Gordon G., 3,444,066.
Brilmyer, Harold G.; and Heap, Samuel A., 3,424,497.
Brilmyer, Harold G., 3,439,769.
Brilmyer, Harold G., 3,456,526.
Brooks, Kenneth R., 3,486,524.
Bruin, James; and Damitz, Clyde O., 3,472,344.
Burby, Robert W., 3,469,166.
Burcz, Lawrence D., 3,472,099.
Burlant, William J.; and Tsou, Ivan H., 3,437,512.
Burlant, William J.; and Tsou, Ivan H., 3,437,513.
Burlant, William J., 3,437,514.
Burnett, Peter P. A., 3,440,133.
Bush, George F., 3,461,545.
Cairns, Thomas M., 3,482,207.
Cairns, Thomas M., 3,487,355.
Caley, Donald A., 3,444,757.
Carlson, Donald W.; and Eller, Phillip E., 3,423,819.
Carlson, Donald W.; and Eller, Phillip E., 3,468,020.
Chirota, William W.; Holzwarth, Robert W.; and Shewchuck, Thomas, 3,433,916.
Clarke, Dennis; and Fowler, Tony J., 3,445,132.
Close, Albert R., 3,433,524.
Coleman, Neil A.; and Weinfurther, Donald B., 3,469,088.
Colvin, Alex D.; Nilssen, Oke K.; and Turner, Allen H., 3,440,466.
Colvin, Alex D., 3,469,139.
Connor, Robert W., 3,432,198.
Cook, Ronald Alan, 3,439,789.
Croswhite, Howard L., 3,424,033.
Croswhite, Howard Linn, 3,431,929.
Dawson, John R.; and Huber, Roy L., 3,487,206.
Draplin, Thomas E.; and Trudeau, Edgar G., 3,456,524.
Drotar, Fredrick L., 3,456,972.
Drumm, John J.; and Najmowicz, Matthew C., 3,439,813.
Dubitsky, Frank R., 3,486,938.
Ernest, Robert P.; and York, Roy W., 3,472,310.
Fisher, Alan R., 3,463,033.
Fisher, Alan R., 3,470,770.
Fredericks, Robert H., 3,462,192.
Freedman, Jerome D.; and Rado, Julius, 3,424,418.
Frey, Stuart M., 3,431,588.
Frey, Stuart M., 3,431,589.
Furrow, Roger W., 3,451,468.
Galaniuk, Alexander H., 3,425,295.
Gardon, Robert, 3,457,057.
Gasiorek, Leonard S.; and Zeisler, Frederic L., 3,487,282.
Gates, Walter G., 3,432,005.
Gejoff, James T., 3,429,603.
Graef, Kurt P., 3,456,940.
Gray, Dorian R., 3,472,641.
Greenler, Robert J., 3,457,056.
Greenler, Robert J., 3,486,878.
Gregorich, Henry L.; Jones, Clevoe D.; and Phelps, Marion E., 3,477,250.
Haas, Robert G.; and Ruhl, Edward A., 3,473,015.
Hall, Leslie; Lynes, Arthur E.; and Martland, Laurie, 3,451,469.
Hall, Leslie; and Lynes, Arthur E., 3,477,538.
Hallauer, William J.; and Potts, Bill L., 3,431,614.
Hallauer, William J.; and Romine, Donald J., 3,452,235.
Hamilton, John D., 3,482,200.
Hatterschide, Thomas E., 3,486,942.
Herman, William R.; and Kortesoja, Victor A., 3,473,363.
Hideg, Laszlo, 3,439,656.
Houston, David R., 3,453,901.
Houston, David R.; Howes, Benjamin T.; Warrick, James E.; and Alexandrowicz, Alvin W., 3,477,306.
Hoyt, Kenneth L.; and Sampietro, Achille C., 3,469,649.
Hughson, Douglas, 3,439,785.
Hughson, Douglas, 3,452,620.

Hurlin, Kenneth P., 3,482,135.
Hutto, Frank C., 3,456,953.
Ihlenburg, Willibald H., 3,481,793.
Ivanchich, Peter G., 3,452,847.
Ivanchich, Peter G., 3,486,392.
Jenks, John D., 3,447,031.
Jensen, Arvid E., 3,468,720.
Jensen, William G., 3,477,405.
Johnson, Edward W., 3,445,011.
Johnson, Olin B., 3,444,064.
Kaptur, Robert E., 3,438,470.
Kaptur, Robert E., 3,439,584.
Kaptur, Robert E., 3,440,903.
Kaptur, Robert E., 3,454,031.
Kaptur, Robert E., 3,481,220.
Kavthekar, Keshav S.; and Russell, Richard G., 3,431,997.
Kavthekar, Keshav S., 3,462,189.
Kepner, Larry A., 3,473,415.
Kline, Leroy F.; and Sendelbach, Ralph E., 3,486,312.
Knorr, Pieter, 3,475,220.
Knowles, James, 3,444,686.
Kolka, Thomas C., 3,473,264.
Kostin, Richard M.; and White, Charles E., 3,472,095.
Kotoucek, Waldemar R., 3,442,154.
Kummer, Joseph T.; and Weber, Neill, 3,458,356.
Kummer, Joseph T., 3,468,709.
Kummer, Joseph T.; and Weber, Neill, 3,475,223.
Lambe, John J.; and Vassell, William C., 3,445,724.
Lambe, John J.; and Jaklevic, Robert C., 3,469,184.
Lang, Charles R., 3,451,213.
Lech, Frederick A., 3,444,962.
Lempke, James L., 3,427,833.
Letwin, Bruce K.; and Sroka, Kenneth J., 3,465,612.
Lupin, Eli R., 3,438,389.
Lynes, Arthur Edward; and Martland, Laurie, 3,439,767.
Maddox, Charles F., 3,477,307.
Madge, Joseph G., 3,451,746.
Madge, Joseph G., 3,486,673.
Mahoney, Lee Robert, 3,458,538.
Mansour, Tahir M., 3,427,110.
Mazurkiewicz, Edward J., 3,457,548.
Mazurkiewicz, Edward J., 3,472,146.
McIntyre, Raymond David; and Woodward, Frederick W., 3,424,494.
McKinlay, Robert C., 3,481,117.
McKinlay, Robert C., 3,481,119.
McLaughlin, Harry A., 3,430,503.
McLean, Arthur F., 3,433,319.
McLean, Arthur F., 3,485,042.
McLean, Arthur F., 3,486,329.
Millar, Clive C., 3,468,181.
Moan, Richard D., 3,446,092.
Nalodka, Edward C., 3,486,531.
Niles, Harold T., 3,477,611.
Nilssen Ole K.; and Ziomek, Joseph F., 3,424,142.
Nilssen, Ole K., 3,424,944.
Nilssen, Ole K., 3,434,009.
Nilssen, Ole K., 3,440,398.
Nilssen, Ole K., 3,445,723.
Ojala, William K., 3,424,875.
Oster, Thomas H., 3,423,240.
Pardy, Ronald P., 3,427,950.
Paredes, Andrew, 3,473,411.
Patyna, Stanley T.; and Payne, William J., 3,457,573.
Pierce, Stanley L., Jr., 3,431,928.
Poole, Charles W., 3,472,197.
Preston, Bruce W., 3,467,473.
Reynolds, Robert L., 3,465,614.
Rhodes, Alex; and Edwards, John E., 3,465,559.
Rhodes, Eugene E.; and Kurz, Alvin M., 3,433,044.
Rhodes, Eugene E., 3,481,173.
Ringe, Frederick A., 3,477,313.
Sampietro, Achille C., 3,456,751.
Sampietro, Achille C., 3,468,190.
Savell, Charles L., 3,451,710.
Scheffler, Clarence E., 3,487,247.
Scheider, Robert C., 3,477,273.
Schlichter, William L., 3,477,753.
Searles, John J., 3,424,037.
Searles, John J., 3,446,098.
Sebestyen, Thomas M., 3,433,263.
Seiden, Myron A., 3,472,494.
Sendelbach, Ralph E., 3,450,119.
Setz, Henry L., 3,439,931.
Shachter, Moses, 3,473,414.
Shachter, Moses, 3,477,247.
Shachter, Moses, 3,477,248.
Shwartzberg, Shalom, 3,468,182.
Shwartzberg, Shalom, 3,468,183.
Simko, Aladar O., 3,446,198.
Simko, Aladar Otto, 3,439,705.
Sippel, Donald G., 3,421,385.
Sippel, Donald G., 3,421,386.
Smith, Raymond P., 3,423,876.
Smith, Raymond P., 3,468,601.
Sowa, Zygmunt, 3,469,059.
Stadler, Henry L., 3,448,348.
Stefan, John P.; and Horton, Emmett J., 3,428,035.
Steinkamp, John O., 3,447,708.
Stocker, Raymond, 3,446,091.
Stockton, Thomas R., 3,424,031.
Stockton, Thomas R., 3,439,560.
Stockton, Thomas R., 3,446,089.
Stockton, Thomas R., 3,473,413.
Strosberg, Gordon G., 3,444,065.
Tennenhouse, Gerald J., 3,446,677.
Tennenhouse, Gerald J., 3,468,719.
Tennenhouse, Gerald J., 3,475,225.
Tenniswood, David M., 3,472,093.
Tenniswood, David M., 3,486,337.
Thompson, Robert J.; Boaz, Premakaran T.; Cholger, Herbert W.; Gray, Dorian R.; and Meyer, John H., 3,440,030.
Thompson, Tom H., 3,476,145.
Tolan, Homer S., Jr., 3,428,140.
Topouzian, Armen, 3,456,518.
Tsou, Ivan H., 3,434,952.
Turnbull, John B., 3,486,762.
Turner, Allen H., 3,440,084.
Turner, Allen H., 3,462,292.
Ullery, Fred E., 3,473,418.
Venema, Jack H., 3,461,671.
Voorheis, Wylie J., 3,433,242.
Wells, John D., 3,486,598.
Whalen, Thomas J.; and Van Alsten, Roy L., 3,462,251.
Whalen, Thomas J.; and Van Alsten, Roy L., 3,481,715.
Woodward, Gary F., 3,458,741.
Woodward, Gary F., 3,482,130.
Zeisler, Frederic L., 3,457,561.
Zimmerman, James E., 3,445,760.
Zulinski, Edward J., 3,424,946.

Ford, Perry, Jr.: *See*—
Hansen, Harold Valentine; Youngberg, Charles Harold; and Ford, Perry, Jr.,3,478,828.

Ford, Robert J.; and Tarczynski, Tadeusz, to Boeing Company, The. Method of making moldable members. 3,455,757, 7-15-69, Cl. 156-214.

Ford, Ronald K.; and Thies, Louis W., Jr., to National Cash Register Company, The. Retaining and replacement means for data-storage elements. 3,454,940, 7-8-69, Cl. 340-174.1

Ford, Stanley Denis: *See*—
Dugdale, Ronald Arthur; and Ford, Stanley Denis,3,482,133.

Ford, Stephen H., to United States of America, Navy. Self-cooling moisture indicator for gases. 3,460,373, 8-12-69, Cl. 73-17.

Ford, Vernon E.: *See*—
Cotta, Ezio D.; and Ford, Vernon E.,3,468,237.

Forde, John P.; and Hochgraf, Lester, to Bell Telephone Laboratories, Incorporated. Arrangement for providing partial service on a failed serially looped carrier system. 3,458,661, 7-29-69, Cl. 179-15.

Fordham, Clifford: *See*—
Wiseman, William A.; and Fordham, Clifford,3,429,304.

Fords (Finsbury) Limited: *See*—
Sainsbury, Jeffrey J., 3,478,221.

Forecast, Inc.: *See*—
Muench, Charles A.; and Penniman, Allen D., Jr., 3,459,455.

Forecki, Harry, to RTE Corporation. Method and apparatus for wet winding coil assemblies for transformers. 3,461,011, 8-12-69, Cl. 156-171.

Foregger Company, Inc., The: *See*—
Bickford, Allan M., 3,420,232.

Foreman, Caley A., to National Mills, division of U.S. Industries, Inc. Hosiery collecting apparatus. 3,453,028, 7-1-69, Cl. 302-27.

Foreman, Caley A., to U.S. Industries, Inc. Mechanism for measuring stretchable knit tubing. 3,462,847, 8-26-69, Cl. 33-127.

Foreman, Caley A., to U.S. Industries, Inc. Device for inspecting panty hose. 3,471,068, 10-7-69, Cl. 223-61.

Foreman, Davis: *See*—
Henriques, Lance L., 3,447,100.

Foreman, Joseph O.: *See*—
Lesher, Howard D.; Friedman, Robert; and Foreman, Joseph O.,3,446,099.

Foreman, Ralph S., to Raychem Corporation. Method of bonding a workpiece within a heat-recoverable sleeve. 3,484,577, 12-16-69, Cl. 219-85.

Foreman, Ralph S.; Switzer, Ronald E.; Spiller, Kenneth J.; and Allan, Donald R., to Raychem Corporation. Electric heating device for installing solder sleeves by radiant heat. 3,427,433, 2-11-69, Cl. 219-347.

Foreman, Robert E. Stud drilling machine. 3,452,792, 7-1-69, Cl. 144-93.

327-709 O-LT - 71 - pt. 1 - 32

Foremast-McKesson, Inc.: *See*—
Francis, Leo H., 3,447,930.
Forest, Edward: *See*—
Weigl, John W.; Forest, Edward; and Keller, Carol K.,3,480,962.
Forest, Robert: *See*—
Venne, Claude; Forest, Robert; and Perreault, Serge,3,478,611.
Forester, Robert D.; and Parr, Josephus O., Jr., to Petty Geophysical Engineering Company. Processing identified seismic tape recordings. 3,460,065, 8-5-69, Cl. 340-15.5
Forge, Charles O., to Stillman, Donald W. Signalling device particularly in miniature radio receivers for paging systems. 3,467,869, 9-16-69, Cl. 325-466.
Forgeng, William D.: *See*—
Farrell, John W.; Forgeng, William D.; and Rieder, Kurt O.,3,483,914.
Forges et Ateliers de Constructions Electriques de Jeumont: *See*—
Moury, Pierre, 3,447,064.
Forget, Edmond, to Etablissement Kogerim. Compositions containing salts of 5'-phospho- N ξ-pyridoxylidene-lysine. 3,462,529, 8-19-69, Cl. 424-200.
Forgione, Peter Salvatore, to American Cyanamid Company. Phenyl vinylene oxalates. 3,431,278, 3-4-69, Cl. 260-340.2
Forgue, Stanley V., to United States of America, Air Force. Vapor depositing infra-sensitive antimony tritelluride. 3,424,610, 1-28-69, Cl. 117-201.
Forim, Leo I., to Sterling Drug Inc. Apparatus for dispensing a plurality of materials simultaneously. 3,474,934, 10-28-69, Cl. 222-136.
Forjas Taurus S.A. Industria e Comercio: *See*—
Zanchi, Admar Orlando, 3,482,348.
Fork, Frank William, to Robertson, H. H., Company. Metal cellular section. 3,459,875, 8-5-69, Cl. 174-97.
Fork, Frank W., to Robertson, H. H. Company. Underfloor electrical crossunder unit. 3,420,018, 1-7-69, Cl. 52-221.
Fork, Frank W., to Robertson, H. H., Company. Metal cellular flooring section and method of making the same. 3,426,492, 2-11-69, Cl. 52-221.
Fork, Frank W., to Robertson, H. H. Company. Metal raceway section. 3,426,802, 2-11-69, Cl. 138-92.
Fork, Frank W., to Robertson, H. H., Company. Underfloor electrical raceway crossover unit. 3,453,791, 7-8-69, Cl. 52-221.
Forkardt, Paul, K.G.: *See*—
Deuring, Karl; and Scharfen, Hans, 3,469,856.
Pahlitzsch, Gotthold; and Hellwig, Waldemar, 3,420,539.
Reich, Kurt, 3,481,614.
Steinberger, Josef; and Beckers, Heinz, 3,424,468.
Forkner, John F., to Philco-Ford Corporation. Rapid acting laser Q switch. 3,434,073, 3-18-69, Cl. 331-94.5
Forkner, John H. Coating method. 3,480,456, 11-25-69, Cl. 117-3.
Forkner, Robert R., to Whittaker Corporation, mesne. Hydraulic power system. 3,487,431, 12-30-69, Cl. 103-57.
Forlani, Franco; and Minnaja, Nicola, to Olivetti-General Electric S.p.A., mesne. Solid-state electron device. 3,483,445, 12-9-69, Cl. 317-234.
Form, Harold M. Quick-opening shrink film package. 3,456,780, 7-22-69, Cl. 206-46.
Forma, Anthony P., to Lowell Molding Corporation. Muller. 3,474,476, 10-28-69, Cl. 12-59.7
Formaini, Richard E.: *See*—
Justice, Ged H.; and Formaini, Richard E.,3,462,256.
Smith, Joseph A.; and Formaini, Richard E.,3,421,854.
Formaini, Robert L., to Allied Chemical Corporation. Polyesters prepared from tris-(2-hydroxyalkyl) isocyanurates and ethylenically unsaturated dicarboxylic acid anhydrides. 3,477,996, 11-11-69, Cl. 260-75.
Forman, Barry J.; Knechtli, Ronald C.; and Wada, Yasuo, to Hughes Aircraft Company. Plasma variable reactance device phase shifter. 3,439,297, 4-15-69, Cl. 333-99.
Forman, Benjamin, to Gibraltar Fabrics, Inc. Padding jacket for shirt-receiving form of shirt pressing apparatus. 3,482,745, 12-9-69, Cl. 223-67.
Forman, Harold M. Shrink film packages and packaging methods. 3,468,412, 9-23-69, Cl. 206-46.
Forman, Hugh M.: *See*—
Freeman, Arthur H.; and Forman, Hugh M.,3,443,136.
Forman, Ronald Max, 1/2 interest to Interfil Limited. Flexible containers attached to a collapsible supporting frame. 3,464,594, 9-2-69, Cl. 222-185.
Forman, Thomas H.; and Prohaska, Edward S., to United States of America, Army. Rifle grenade fuze and bullet-stopping device. 3,439,615, 4-22-69, Cl. 102-65.2
Forman, William: *See*—
Evans, Don; Stone, Ray; Forman, William; and Taber, Allen M.,3,456,949.
Formation of carbide compounds by vapor: *See*—
Bracken, Ronald C.; Stroup, Ralph F.; and Wakefield, Gene F., 3,459,504.
Formax Manufacturing Corporation: *See*—
McAleer, Howard J., 3,451,093.
Formel, Adrian Gilbert. Swimming pool adjustable floor and cover arrangement. 3,435,465, 4-1-69, Cl. 4-172.
Formex Manufacturing, Inc.: *See*—
Alesi, John, Jr., 3,464,661.
Formfoto Manufacturing Company: *See*—
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., 3,424,529.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., 3,461,788.
Formica Corporation: *See*—
Anghinetti, Joseph Richard; Burden, David Abbott; and Pelletier, Albert Eugene, 3,420,021.
Kamal, Musa Rasim, 3,421,971.
Kamal, Musa Rasim, 3,421,973.
Kamal, Musa Rasim, 3,447,997.
Kelly, Peter Bernard, 3,454,518.
Noland, James Sterling; and Saxon, Robert, 3,475,519.
Formica International Limited: *See*—
Dixon, William Murray, 3,450,044.
Salter, Roy; Petrie, Harold Lishman; and Williamson, Ian, 3,450,595.
Williams, Gordon, 3,425,687.
Formsma, Gerald R.; and Gaspar, Louis G., to North American Aluminum Corporation. Aluminum polishing process. 3,464,870, 9-2-69, Cl. 156-21.
Fornataro, Augustine A., to Voss Engineering Company. Roller leveler. 3,477,266, 11-11-69, Cl. 72-165.
Fornataro, Augustine A., to Voss Engineering Company. Mechanical actuator. 3,483,765, 12-16-69, Cl. 74-89.14
Forney, Albert J.; Gasior, Stanley J.; and Field, Joseph H., to United States of America, Interior. Process for gasifying caking coals. 3,463,623, 8-26-69, Cl. 48-202.
Forney, Albert J.: *See*—
Johnson, Glenn E.; Forney, Albert J.; and Field, Joseph H.,3,424,676.
Forney, Arthur. Decorator fountains. 3,451,622, 6-24-69, Cl. 239-20.
Forney Engineering Company: *See*—
Forney, Ross H., 3,430,655.
Moore, William J., 3,437,807.
Forney, Ross H., to Forney Engineering Company. Monoblock valve. 3,430,655, 3-4-69, Cl. 137-625.47
Forniti, Philip M.: *See*—
Patrick, Malcom W.; and Forniti, Philip M.,3,424,146.
Fornoni, Luigi. Electrolyzing unit. 3,441,492, 4-29-69, Cl. 204-220.
Foroulis, Zisis Andrew, to Esso Research and Engineering Company. Corrosion inhibition of metal surfaces by aromatic aldehydes. 3,453,203, 7-1-69, Cl. 208-47.
Foroulis, Zisis Andrew, to Esso Research and Engineering Company. Halogenated aromatic inhibitors. 3,459,654, 8-5-69, Cl. 208-47.
Foroulis, Zisis Andrew, to Esso Research and Engineering Company. Corrosion inhibitor. 3,472,666, 10-14-69, Cl. 106-14.
Forrant, David W. Photographic ring light. 3,474,242, 10-21-69, Cl. 240-1.3
Forrat, Francis; and Jansens, Richard, to Compagnie Generale d'Electricite. Process for removing the colour from oriented monocrystals. 3,420,780, 1-7-69, Cl. 252-301.1
Forrer, Homer W., to Mead Corporation, The. Article carrier. 3,424,368, 1-28-69, Cl. 229-40.
Forrer, Homer W., to Mead Corporation, The. Article carrier. 3,432,073, 3-11-69, Cl. 220-113.
Forrer, Homer W., to Mead Corporation, The. Article carrier with reinforced end panels. 3,447,717, 6-3-69, Cl. 220-113.
Forrer, Homer W., to Mead Corporation , The. Article carrier and method of making. 3,469,737, 9-30-69, Cl. 220-115.
Forrer, Homer W.; and Chapman, James R., to Mead Corporation, The. Reclosable carton. 3,478,953, 11-18-69, Cl. 229-51.
Forrer, Homer W.; and Funkhauser, James B., to Mead Corporation, The. Package of articles of different sizes and shapes. 3,424,301, 1-28-69, Cl. 206-47.
Forrer, Max: *See*—
Hermann, Jean; Paratte, Daniel; and Forrer, Max,3,484,804.
Forrest, Joseph B.; and Hart, Gene E., to Southern Mill Equipment Corporation. Apparatus for automatically closing the ends of tubular fabric articles. 3,434,438, 3-25-69, Cl. 112-2.
Forrester, Jay W.; Pease, William M.; McDonough, James O.; and Susskind, Alfred K., to Parsons, John T., mesne. Machine tool numerical control system. 3,431,478, 3-4-69, Cl. 318-162.
Forrester, Robert A.; and Pietsch, Kerwyn L., to Ashland Oil & Refining Company, mesne. Black masterbatching butyl rubber. 3,463,755, 8-26-69, Cl. 260-41.5
Forrey, Ralph R.: *See*—
Camirand, Wayne M.; and Forrey, Ralph R.,3,425,848.
Fors, James A. Game board and vehicle with vehicle trapping means. 3,462,148, 8-19-69, Cl. 273-116.
Forsberg, John W., to Lubrizol Corporation, The. Coating compositions containing styrene-allyl alcohol copolymer, epoxy resin, and phenol formaldehyde. 3,454,418, 7-8-69, Cl. 117-75.
Forsberg, John W.; and Jahnke, Richard W., to Lubrizol Corporation, The. Composition and method of coating with a mixture of

styrene-allyl alcohol copolymer, epoxy resin and phosphoric acid. 3,429,945, 2125-69, Cl. 260-836.
Forsberg, Karl Sten Olof, to Morgardshammars Mek, Verkstads Aktiebolag. Rolling mill. 3,422,654, 1-21-69, Cl. 72-228.
Forsberg, Norman P. Signaling apparatus for motor vehicles. 3,437,994, 4-8-69, Cl. 340-70.
Forsblad, Ingemar B., to Upjohn Company, The. Process for the ketolization of 17(20) bonds in 3-keto-$\Delta^{4,17(20)}$-21-hydroxy steroids of the pregnane series. 3,455,973, 7-15-69, Cl. 260-397.45
Forschepiepe, Fritz. Slag processing plant. 3,438,762, 4-15-69, Cl. 65-141.
Forschmidt, Samuel. Shelf bracket. 3,432,134, 3-11-69, Cl. 248-235.
Forschungsgemeinschaft der Deutschen Filztuchindustrie: *See*—
Schuster, Wilhelm, 3,463,657.
Forschungsinstitut fur Textiltechnologie: *See*—
Ploch, Siegfried; Scholtis, Walter; and Zschunke, Heinz, 3,442,101.
Forschungslaboratorium, Heiman, Walter, Prof. Dr.-Ing.: *See*—
Heimann, Walter; and Hofmann, Hans, 3,458,379.
Forschungslaboratorium, Heimann, W., Prof. Dr.-Ing.: *See*—
Heimann, Walter; and Scherzer, Otto, 3,448,317.
Forschungslaboratorium, Heimann, Walter, Prof. Dr.-Ing.: *See*—
Heimann, Walter; Maus, Hans R.; and Wolf, Erich A., 3,449,580.
Pawlowski, Frank L., 3,437,934.
Forse, Don H.: *See*—
Greenlee, Lyman E., 3,458,262.
Forse, Harry D.: *See*—
Campbell, Rollin E.; and Forse, Harry D.,3,463,367.
Campbell, Rollin E.; and Forse, Harry D.,3,484,821.
Forse, Harry D. Method and apparatus for shaping and finishing a garment. 3,477,621, 11-11-69, Cl. 223-57.
Forslund, Charles F. Screen printing machine. 3,459,125, 8-5-69, Cl. 101-35.
Forslund, Charles F. Screen printing squeegee and flood bar apparatus. 3,477,366, 11-11-69, Cl. 101-123.
Forslund, Donald C.; and Waxman, Ronald, to International Business Machines Corporation. Multipurpose logic circuit for performing 254 out of 256 discrete logical combinations of three variables. 3,428,903, 2-18-69, Cl. 328-92.
Forsman, Earl R., to Keystone Valve Corporation. Disc valve operator with compound driving linkage. 3,452,961, 7-1-69, Cl. 251-31.
Forste, Walter; and Ostermay, Gottfried, to VVB Elektrogerate. Carbon commutator. 3,473,062, 10-14-69, Cl. 310-234.
Forste, Walter; and Ostermay, Gottfried, to VVB Elektrogerate. Carbon commutators. 3,473,063, 10-14-69, Cl. 310-234.
Forster, Albert P., 1/2 to Muggley, Reginald F. Crawler tractor ground pulverizer attachment. 3,459,268, 8-5-69, Cl. 172-63.
Forster and Slaughter: *See*—
Forster, Lloyd M., 3,480,985.
Forster, Lloyd M., 3,480,986.
Forster, Donald C., to Hughes Aircraft Company. Laser having a stabilized output spectrum. 3,471,803, 10-7-69, Cl. 331-94.5
Forster, Donald M.: *See*—
Johnson, Benjamin A.; and Forster, Donald M.,3,425,835.
Forster, Eric O., to Esso Research and Engineering Company. Microwave drying process for synthetic polymers. 3,434,220, 3-25-69, Cl. 34-1.
Forster, Eric O.; and Effron, Edward, to Esso Research and Engineering Company. Process for measuring static charge in a liquid hydrocarbon stream. 3,478,261, 11-11-69, Cl. 324-32.
Forster, Eric O.; and Vanderbilt, Byron M., to Esso Research and Engineering Company. Metal-filled plastics comprising a styrene polymer and an elastomer. 3,427,264, 2-11-69, Cl. 260-4.
Forster, Eric O.: *See*—
Wisdom, Norvell E., Jr.; and Forster, Eric O.,3,421,947.
Forster, Ewald; Porret, Daniel; and Ruf, Peter, to Ciba Limited. Epoxy resin moulding compositions. 3,483,168, 12-9-69, Cl. 260-77.5
Forster, Fridolin. Drawing apparatus. 3,483,622, 12-16-69, Cl. 33-23.
Forster, Graham Arthur; and Collinson, Christopher David, to Davy and United Engineering Company, Limited. Forging control. 3,435,650, 4-1-69, Cl. 72-24.
Forster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Planetary gear change-speed transmission, especially for motor vehicles. 3,486,399, 12-30-69, Cl. 74-763.
Forster, Hans-Joachim M.; and Eltze, Ulrich, to Daimler-Benz Aktiengesellschaft. Centrifugal regulator for producing a pressure in dependence on the rotational speed, especially for automatic motor vehicle change-speed trans- missions. 3,420,251, 1-7-69, Cl. 137-54.
Forster, Hans-Joachim M.; and Katz, Klaus, to Daimler-Benz Aktiengesellschaft. Servo-steering mechanism for motor vehicles. 3,444,786, 5-20-69, Cl. 91-434.
Forster, Hans-Joachim M.; and Katz, Klaus, to Daimler-Benz Aktiengesellschaft. Servo-steering system for motor vehicles. 3,476,203, 11-4-69, Cl. 180-79.2
Forster, Hans-Joachim M.; and Zaiser, Wolfgang, to Daimler-Benz Aktiengesellschaft. Drive for auxiliary units of an internal combustion engine, especially in motor vehicles. 3,469,473, 9-30-69, Cl. 74-781.
Forster, Hans-Joachim M.; and Zaiser, Wolfgang, to Daimler-Benz Aktiengesellschaft. Motor vehicle change speed transmission. 3,483,771, 12-16-69, Cl. 74-759.
Forster, Harry: *See*—
Schiller, Siegfried; Forster, Harry; and Lenk, Peter,3,440,475.
Schiller, Siegfried; Lenk, Peter; and Forster, Harry,3,432,335.
Forster, James Neil: *See*—
Gomez, Ludgero S. A.; and Forster, James Neil,3,421,528.
Forster, Johannes; and Golde, Ernst, to Licentia Patent-Verwaltungs-G.m.b.H. Single phase voltage converter. 3,439,254, 4-15-69, Cl. 321-45.
Forster, John R. Combined feed mill and feed auger. 3,465,801, 9-9-69, Cl. 146-107.
Forster, Klaus W.: *See*—
McCready, Ross B.; and Forster, Klaus W.,3,469,832.
Forster, Klaus W., to Kerma Corporation. Furnace skull stripper. 3,438,619, 4-15-69, Cl. 266-36.
Forster, Leslie L.: *See*—
Palmer, William E.; and Forster, Leslie L.,3,429,371.
Forster, Lloyd M., to Forster and Slaughter. Wiper arm construction. 3,480,985, 12-2-69, Cl. 15-250.35
Forster, Lloyd M., 1/3 to Appel, Walter D., and 2/3 to Forster and Slaughter. Integral windshield wiper and arm construction. 3,480,986, 12-2-69, Cl. 15-250.36
Forster, Paul Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of shaped articles, such as fibers, filaments and films, or polyesters. 3,480,586, 11-25-69, Cl. 260-47.
Forster, Paul-Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing high molecular weight polyalkylene terephthalates by intimately mixing a molten stream of low molecular weight polyalkylene terephthalate with a melt of higher molecular weight polyalkylene terephthalate. 3,446,772, 5-27-69, Cl. 260-47.
Forster, Wolfgang C., to Reichhold Chemicals, Inc. Flame resistant polyol urethane foam composition and process of producing the same. 3,470,118, 9-30-69, Cl. 260-2.5
Forsthuber, Robert Franz Karl: *See*—
Kirk, Joseph; and Forsthuber, Robert Franz Karl,3,466,762.
Forstner, Egon; and Binder, Robert, to Porsche, Dr.-Ing. H.c.F., K.G. Engine cooling system for armored vehicles, particularly tanks. 3,428,141, 2-18-69, Cl. 180-54.
Forsvarets Fabriksverk: *See*—
Akhagen, Rune V., 3,459,129.
Forsyth, George E., to Rohm & Haas Company. Flame resistant acrylic sheet containing cyclohexyl acrylate or methacrylate copolymer. 3,468,980, 9-23-69, Cl. 260-901.
Forsyth, Harold G. Self-retaining label cards for jugs. 3,423,861, 1-28-69, Cl. 40-20.
Forsyth, John P.: *See*—
Forsyth, Robert W.; and Forsyth, John P.,3,478,643.
Forsyth, Ray E.: *See*—
Mackey, Walter, 3,449,802.
Forsyth, Ray E. Trim button manufacture. 3,426,626, 2-11-69, Cl. 79-4.
Forsyth, Robert W.; and Forsyth, John P. Ballistic shielding apparatus. 3,478,643, 11-18-69, Cl. 89-36.
Forsyth, Samuel E., to Phillips Petroleum Company. Method for sulfonation of hydrocarbons and disposal of gases therefrom. 3,485,745, 12-23-69, Cl. 208-44.
Forsyth, William A., Jr., to Honeywell Inc. Marking medium. 3,477,862, 11-11-69, Cl. 106-22.
Forsythe, Alan K.: *See*—
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D.,3,460,746.
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D.,3,460,747.
Forsythe, Bobbie G., to Wichita Clutch Company, Inc. Self-aligning, caliper type brake. 3,469,658, 9-30-69, Cl. 188-73.
Fort, Godfrey: *See*—
Dinwoodie, Andrew Harper; and Fort, Godfrey,3,470,170.
Dinwoodie, Andrew Harper; and Fort, Godfrey,3,474,092.
Dinwoodie, Andrew Harper; Fort, Godfrey; and Parker, James Brown,3,431,261.
Dinwoodie, Andrew Harper; Fort, Godfrey; and Thompson, James McAllan Cormack,3,461,134.
Fort, Godfrey, to United States of America, Navy. Substituted trinitroethyl imidazolidine compounds. 3,475,448, 10-28-69, Cl. 260-309.7
Fort Howard Paper Company: *See*—
Monyette, Donald C.; and Wolske, Dean L., 3,433,544.
Fort Wayne Metals, Inc.: *See*—
Glaze, Ardelle, 3,428,278.

Fort Wayne Tool & Die, Inc.: *See—*
Eminger, Robert J., 3,447,225.
Eminger, Robert J., 3,460,770.
Eminger, Robert J.; and Tyson, Clayton L., 3,481,372.
Henry, John J., 3,441,228.
Fortay, Martha K.,: *See—*
Fortay, Steven O.; Fortay, Martha K.; and Fortay, Steven O., 3,420,237.
Fortay, Martha K.: *See—*
Fortay, Steven O.; Fortay, Martha K.; and Fortay, Steven O.,3,420,237.
Fortay, Steven O.; Fortay, Martha K.; and Fortay, Steven O.,3,420,237.
Fortay, Steven O.: *See—*
Fortay, Steven O.; Fortay, Martha K.; and Fortay, Steven O.,3,420,237.
Fortay, Steven O.; Fortay, Martha K.; and Fortay, Steven O., deceased0 (by Fortay, Martha K.; executrix), to Fortay, Martha K.,. Process and article for the treatment of severe epistaxis. 3,420,237, 1-7-69, Cl. 128-325.
Forte, Dennis D. Basement drainage system. 3,426,487, 2-11-69, Cl. 52-1.
Forte, Joan M. Valve wheel for foot control. 3,465,379, 9-9-69, Cl. 16-110.
Forte, Virginia A., to Getha, William. Lipstick blotter. 3,432,081, 3-11-69, Cl. 225-39.
Forten, Jeremy; and Rissman, Edwin Francis, to Leesona Corporation. Electrochemical cell including palladium- gold alloy black catalyst. 3,467,554, 9-16-69, Cl. 136-86.
Fortenbach, John H.; Hollowood, Hugh B.; and Mazanek, Henry E., to General Electric Company. Method of making a tieless bracing of stator coil end turns. 3,435,517, 4-1-69, Cl. 29-596.
Fortenbaugh, Robert Berendt: *See—*
Abbey, Anthony; Fortenbaugh, Robert Berendt; and Klothen, Irving,3,427,166.
Klothen, Irving; Fortenbaugh, Robert Berendt; and Abbey, Anthony,3,434,844.
Fortenberry, Jerry A. Nosepiece for rocking connection to ophthalmic mounting. 3,476,468, 11-4-69, Cl. 351-130.
Fortescue, Peter, to United States of America, Atomic Energy Commission. Nuclear reactor system with fission gas removal. 3,432,388, 3-11-69, Cl. 176-37.
Fortescue, Peter, to Gulf General Atomic Incorporated, mesne. Gas cooled nuclear reactor. 3,461,034, 8-12-69, Cl. 176-60.
Fortescue, Peter; Ringsmuth, Richard J.; and Schultz, George M., to Gulf General Atomic Incorporated, mesne. Control rod drive system. 3,448,006, 6-3-69, Cl. 176-36.
Fortescue, Peter; and Shanstrom, Raymond T., to Gulf General Atomic Incorporated, mesne. Gas-cooled fast reactor. 3,475,272, 10-28-69, Cl. 176-40.
Forth, Edward W.: *See—*
Parkison, Richard G.; and Forth, Edward W.,3,465,782.
Forth, Murray W., to Deere & Company, mesne. Bale thrower. 3,451,333, 6-24-69, Cl. 100-188.
Forthmann, Frederich F., Jr. Method and apparatus for cutting labels having plastic fibers. 3,483,778, 12-16-69, Cl. 83-16.
Forthmann, Frederick F., Jr. Strip material cutting device and method. 3,483,779, 12-16-69, Cl. 83-42.
Fortier, Andre Louis. Differential pneumatic measuring or servo devices. 3,477,276, 11-11-69, Cl. 73-37.5
Fortier, Ernest L. Irrigation system. 3,423,023, 1-21-69, Cl. 239-207.
Fortier, Paul Henri. Stabilizing device for a vehicle. 3,430,978, 3-4-69, Cl. 280-124.
Fortier, Roland, to Climabec Inc. Apparatus for producing ozone. 3,457,159, 7-22-69, Cl. 204-313.
Fortier, Roland, to Climabec Inc. Apparatus for generating ozone. 3,457,160, 7-22-69, Cl. 204-319.
Fortin Plastics, Inc.: *See—*
Jones, Harold A., 3,422,495.
Fortman, John T., to Universal Oil Products Company. Black oil conversion process. 3,471,397, 10-7-69, Cl. 208-111.
Fortnam, George A., to General Electric Company. Hand operated vibrator. 3,461,859, 8-19-69, Cl. 128-36.
Fortsch, Francis J.; and Durch, Edward L., to American Welding & Manufacturing Company, The. Snap-in reinforcement. 3,425,159, 2-4-69, Cl. 49-504.
Fortsch, Francis J.; and Sullivan, Harold E., to American Welding & Manufacturing Company, The. Dry wall sheet metal frame. 3,429,076, 2-25-69, Cl. 49-504.
Fortuna Foundations, Inc.: *See—*
Murdock, Benjamin, 3,438,376.
Fortuna-Werke Maschinenfabrik Aktiengesellschaft: *See—*
Hacker, Kurt; Koehl, Erwin; and Weigele, Reinhold, 3,461,473.
Fortune, David J.: *See—*
Orwin, Olaf J. B.; and Fortune, David J.,3,429,407.
Fortune, William J. Guide and work holder for making router cuts. 3,450,001, 6-17-69, Cl. 90-12.
Fortune, William S. Solder-desolder combination implement. 3,443,734, 5-13-69, Cl. 228-52.
Forward, Carrel M.: *See—*
Solomon, William H.; Van Weelde, Donald J.; and Forward, Carrel M.,3,451,874.
Forward, Frank A.: *See—*
Vizsolyi, Andrew I.; Armstrong, Anna M.; and Forward, Frank A.,3,459,535.
Forward, Philip: *See—*
Parker, Walter; and Forward, Philip,3,465,509.
Forward, Robert L.; and Jacobson, Alexander D., to Hughes Aircraft Company. Color holography. 3,442,566, 5-6-69, Cl. 350-3.5
Forwarets Fabriksverk: *See—*
Holmstrom, Georg Henry Sixten, 3,472,167.
Forzelius, Nils T. Sole edge holder for ski bindings. 3,456,958, 7-22-69, Cl. 280-11.35
Foseco Fordath A.G.: *See—*
Walker, James; and Westwood, Goeffrey W., 3,428,110.
Foseco International Limited: *See—*
Baille, Michel, 3,486,884.
Beale, James, 3,440,066.
Boddey, Ronald Frederick, 3,460,606.
Eastwood, Fred; Brindle, John Harry; and Kolb, Frederick L., Jr., 3,458,169.
Ravault, Frank Ernest George, 3,440,112.
Robiette, Alfred Gordon Evans, 3,461,339.
Foseco Technik Limited Nechells: *See—*
Macnair, John Miles, 3,457,769.
Foseco Trading A.G.: *See—*
Eastwood, Fred, 3,439,734.
Foshag, William F.: *See—*
Boehler, Gabriel D.; and Foshag, William F.,3,439,887.
Boehler, Gabriel D.; and Foshag, William F.,3,446,175.
Fosker, George Robert; and Nayler, John Herbert Charles, to Beecham Group Limited. α-Phthalimidobenzylpenicillin. 3,453,264, 7-1-69, Cl. 260-239.1
Foskett, Roger D., to Dynamics Research Corporation. Photoelectric incremental encoder providing output indication of amount and direction of relative motion between two members. 3,449,588, 6-10-69, Cl. 250-231.
Fosler, John R., to General Motors Corporation. Unbalanced sensing switch assembly for centrifugal machines. 3,422,957, 1-21-69, Cl. 210-144.
Fosler, John R.; and Sharpe, Verlos G., to General Motors Corporation. Washing machine support assembly. 3,476,253, 11-4-69, Cl. 210-365.
Fosnaugh, Harland R.: *See—*
Dutt, Herbert V.; and Fosnaugh, Harland R.,3,440,897.
Foss, George J.; Runco, Joseph C.; and Roberts, Cecil P., to Anchor Hocking Glass Corporation. Container sealing machine. 3,438,174, 4-15-69, Cl. 53-110.
Foss, Rudolph George: *See—*
Fearon, Robert Earl; and Foss, Rudolph George,3,475,239.
Fossa, Joseph. Shoe upper lacing machines. 3,458,883, 8-5-69, Cl. 12-58.5
Fossati, F. Nicholas: *See—*
Fredriksson, Oke A.; Fossati, F. Nicholas; and Roberts, F. Alexander,3,449,657.
Fossel, Spencer M., to Unimed, Inc. Method of improving microcirculation and treating senility with beta-(pyridyl lower alkyl) amines. 3,439,096, 4-15-69, Cl. 424--263
Fossel, Spencer M., to Unimed, Inc. Reduction of intraocular pressure. 3,461,210, 8-12-69, Cl. 424-312.
Fossel, Spencer M., to Unimed, Inc. Treatment of epilepsy with polyglycerols and polyglycerol esters. 3,475,541, 10-28-69, Cl. 424-307.
Fossier, Ralph L.; and Kruissink, John W., to Dentin Manufacturing Company. Panel having rims bonded with glass fibers and polyester resin. 3,450,593, 6-17-69, Cl. 161-43.
Foster & Creighton Company: *See—*
Price, Billy J., 3,456,756.
Foster, Andrew McMechan, to Hollingsworth & Vose Company. Method of forming glass-asbestos water-laid sheet. 3,441,472, 4-29-69, Cl. 162-145.
Foster, Benjamin, Company: *See—*
Rolland, Grey F.; and Seipel, John J., 3,442,671.
Foster, Billy J., to Phillips Petroleum Company. Extruder-pelletizer apparatus. 3,467,987, 9-23-69, Cl. 18-12.
Foster Bros., Manufacturing Co.: *See—*
Eakins, Paul W., 3,435,468.
Foster, Caxton C. Parallel input mechanism for memory unit. 3,479,652, 11-18-69, Cl. 340-173.
Foster, Charles N.: *See—*
White, Robert P.; and Foster, Charles N.,3,484,012.
Foster, Christopher J. Ship launching apparatus and method. 3,478,526, 11-18-69, Cl. 61-67.
Foster, David Blythe, to North Atlantic Research Products Limited. Ovality measurement apparatus comprising two photoelectric gauging systems having an angle between their optical axes of the order of 70°. 3,436,555, 4-1-69, Cl. 250-223.
Foster, Donald J.: *See—*
O'Connor, George L.; and Foster, Donald J.,3,442,811.

Foster, Edson P. Felting needle. 3,479,708, 11-25-69, Cl. 28-4.
Foster, Edward Graham; and Bloom, Martin S., to Imperial Chemical Industries Limited. Process for the production of formed gypsum castings. 3,454,688, 7-8-69, Cl. 264-42.
Foster, Edwin E. Spring powered swing. 3,420,523, 1-7-69, Cl. 272-86.
Foster, Edwin E. Tilt-in window sash. 3,445,964, 5-27-69, Cl. 49-183.
Foster, Edwin E. Swing-in window sash. 3,447,264, 6-3-69, Cl. 49-150.
Foster, Edwin E. Swing-in window sash. 3,452,478, 7-1-69, Cl. 49-161.
Foster, Edwin E. Spring sash counterbalance. 3,452,480, 7-1-69, Cl. 49-445.
Foster, Edwin E.; and Foster, Thomas E., 1/2 to said Foster, Edwin E. Wheel cover. 3,480,329, 11-25-69, Cl.
Foster, Frederick C., to Firestone Tire & Rubber Company, The. Isoprene-styrene copolymers and method of making same. 3,464,961, 9-2-69, Cl. 260-83.7
Foster, George B., to Reliance Electric and Engineering Co. Noncontacting tool tip positioning system. 3,447,419, 6-3-69, Cl. 90-13.
Foster, George B., to Reliance Electric and Engineering Co. Noncontact displacement transducer with feedback controlled vibration amplitude and a probe having a sensing means disposed transversely of the direction of vibration. 3,452,273, 6-24-69, Cl. 324-61.
Foster, George B., to Industrial Nucleonics Corporation. Standardization of measuring systems to provide a constant output signal response characteristic with a changeable input transducer signal response characteristic. 3,486,113, 12-23-69, Cl. 324-130.
Foster, George B.; and Ostrander, Kenneth A., to Reliance Electric and Engineering Company. Acceleration monitor (G-switch). 3,455,148, 7-15-69, Cl. 73-71.2
Foster, George B.; and Ostrander, Kenneth A., to Reliance Electric and Engineering Company. Vibration amplitude monitor. 3,455,149, 7-15-69, Cl. 73-71.4
Foster, George H.; and Lomax, Donald P., to Xaloy Incorporated. Pressure balancing means for cylinders for injection molding and extrusion. 3,456,298, 7-22-69, Cl. 18-30.
Foster, George Michael; and Surgent, Louis Vincent, Jr. Radar method using Mie region analysis. 3,478,354, 11-11-69, Cl. 343-5.
Foster, George W., to Koehler Aircraft Products Company. Valve. 3,423,067, 1-21-69, Cl. 251-309.
Foster, Glen B. Sheet metal joint. 3,474,585, 10-28-69, Cl. 52-394.
Foster, Glenn B., to Carrier Corporation. Control of absorption refrigeration systems. 3,426,547, 2-11-69, Cl. 62-101.
Foster, Glenn B.: *See*—
Eisberg, Keith V.; and Foster, Glenn B.,3,466,887.
Foster, Gordon; and Johnson, Peter, to British Petroleum Company, Limited, The. Ether alcohols. 3,456,019, 7-15-69, Cl. 260-615.
Foster Grant Co., Inc.: *See*—
Belanger, Paul J.; and Richard, Edgar J., 3,471,609.
Brewer, Charles C.; Fritz, Richard C.; and Moe, James M., 3,424,808.
Chatkis, Jacob, 3,441,183.
Rathbun, Willard J., 3,437,233.
Reitmeier, Ronald E.; Mayfield, Franklin D.; and Mayes, James H., 3,437,703.
Foster, Harold Marvin, to Sherwin-Williams Company, The. Fungicidal use of 2,6-dinitro-*p*-tolyl N- alkylcarbamates. 3,485,923, 12-23-69, Cl. 424-300.
Foster, Harold M.: *See*—
Crawford, Jack E.; Foster, Harold M.; and Higgins, Thomas W.,3,465,004.
Foster, Harold M.; and Kilsheimer, John R., to Mobil Oil Corporation. Substituted pyridylamide and pyridylurea non- phytotoxic fungicides. 3,467,753, 9-16-69, Cl. 424-263.
Foster, Herbert G., Jr.: *See*—
Cornwell, Edmund H.; and Foster, Herbert G., Jr.,3,482,999.
Foster, Jack A.: *See*—
Bradley, James; Bradshaw, Edward F.; and Foster, Jack A.,3,426,988.
Foster, Jack D., to Kearney & Trecker Corporation. Stabilized laser structure. 3,484,718, 12-16-69, Cl. 331-94.5
Foster, Jack V., to American Machine & Foundry Company. Armature retainer for relays with clapper type armature. 3,434,081, 3-18-69, Cl. 335-203.
Foster, James L.: *See*—
Sisson, Cecil G.; Foster, James L.; and Myers, Clyde B.,3,443,890.
Foster, John A., to Clark, J. L., Manufacturing Co. Container with lift tab cover release. 3,422,984, 1-21-69, Cl. 220-59.
Foster, John A., to Clark, J. L., Manufacturing Co., mesne. Plastic closure. 3,469,732, 9-30-69, Cl. 220-31.
Foster, John Donald. Toy gun having electromagnetic radiation means. 3,426,475, 2-11-69, Cl. 46-45.
Foster, John E.: *See*—
Miller, Barry E.; and Foster, John E.,3,442,474.
Foster, Joseph S.: *See*—
Spershott, Walter E.; Foster, Joseph S.; Thom, David; and Gosling, Dickinson,3,483,962.
Foster, Kenneth M., to Air Reduction Company, Incorporated. Automatic system for alternate feed of acetylene generator. 3,480,415, 11-25-69, Cl. 48-54.
Foster, Kenneth W.: *See*—
Newman, Nicholas B.; Foster, Kenneth W.; and Geer, Ronald L.,3,474,857.
Foster, Leigh Curtis, to Zenith Radio Corporation. Display devices. 3,430,094, 2-25-69, Cl. 315-13.
Foster, Leigh Curtis; and Lindley, John P., to Zenith Radio Corporation. Method of making glass to metal seals. 3,467,509, 9-16-69, Cl. 65-33.
Foster, Leslie W., to Outboard Marine Corporation. Bearing mounting. 3,452,617, 7-1-69, Cl. 74-606.
Foster, Luther M.; and Scardefield, John E., to International Business Machines Corporation. Process of making gallium phosphide dendritic crystals with grown in P-N light emitting junctions. 3,427,211, 2-11-69, Cl. 148-171.
Foster Manufacturing Co., Inc.: *See*—
Cruse, Lee H., 3,477,688.
Foster, Merrill J., to Marine Industries, Inc. Electronic instrument for measuring fluid flow past fluid pressure sensing means. 3,425,280, 2-4-69, Cl. 73-212.
Foster-Pegg, Richard W., to Struthers Energy Systems, Inc. Gasifier and gas turbine system. 3,446,012, 5-27-69, Cl. 60-39.02
Foster-Pegg, Richard W., to Struthers Energy Systems, Inc. Pulverizer. 3,446,014, 5-27-69, Cl. 60-39.18
Foster-Pegg, Richard W., to Struthers Energy Systems, Inc. One way fluid pressure clutch. 3,482,669, 12-9-69, Cl. 192-85.
Foster, Peter William, to Du Pont de Nemours, E. I., and Company. Poly(trans-1,2-cyclobutylene adipamide) and fibers thereof. 3,432,477, 3-11-69, Cl. 260-78.
Foster, Peter William, to Du Pont de Nemours, E. I., and Company. Polyamide containing recurring saturated fluorene rings. 3,468,850, 9-23-69, Cl. 260-78.
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C., to Motorola, Inc. J-K flip-flop. 3,444,395, 5-13-69, Cl. 307-291.
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C., to Motorola, Inc. Logic gate having a variable switching threshold. 3,445,680, 5-20-69, Cl. 307-215.
Foster, Raymond C.: *See*—
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander,3,421,050.
Foster, Raymond O., to Weston Laboratories, Inc. Test implement for detecting peroxidase. 3,472,738, 10-14-69, Cl. 195-99.
Foster, Reginald Thomas; and Taylor, John Heyward, to Imperial Chemical Industries Limited. Separation of chlorinated polyvinyl chloride from its solution in tetrachloroethane. 3,440,236, 4-22-69, Cl. 260-92.8
Foster, Robert Donnell; and Banker, John C., to Sterling Packing and Gasket Co., mesne. Machine for making spirally wound composite gaskets. 3,484,576, 12-16-69, Cl. 219-78.
Foster, Robert Thomas: *See*—
Hayward, Brian Phillip; Mc Ewan, Keith John Bruce; Foster, Robert Thomas; and Hoare, Martin John,3,441,448.
Foster, Ross; and Foster, Warren. Debarking machine. 3,474,839, 10-28-69, Cl. 144-208.
Foster, Scott H.; Larkin, James D.; and Williams, Charles R., to Monsanto Company. 2-Dimethyl amino-2 methyl-1-propanol p-tolvene sulfonate. 3,444,190, 5-13-69, Cl. 260-501.19
Foster, Stephen C., to Practical Manufacturing Company. Parts cleaning machine. 3,426,772, 2-11-69, Cl. 134-141.
Foster, Stephen F., to Hercules Incorporated. Explosive cartridge assemblies. 3,431,848, 3-11-69, Cl. 102-24.
Foster, Thomas E.: *See*—
Foster, Edwin E.; and Foster, Thomas E.,3,480,329.
Foster, Thomas W. F., to Kaiser Aluminum & Chemical Corporation. Melting furnace. 3,484,089, 12-16-69, Cl. 266-33.
Foster, Walter E.; and Presswood, John K., to Ethyl Corporation. Stabilization of organolead compounds. 3,454,612, 7-8-69, Cl. 260-437.
Foster, Walter Henry, Jr.; Dowd, John Mark, Jr.; and Coleman, Ralph Arthur, to American Cyanamid Company. Aqueous dispersion of photochromic mercuric complexes of diaryl thiocarbazones and dyeing procedure employing same. 3,475,339, 10-28-69, Cl. 252-300.
Foster, Warren: *See*—
Foster, Ross; and Foster, Warren,3,474,839.
Foster Wheeler Corporation: *See*—
Apblett, William R., 3,440,391.
Berman, Irwin; and Pai, David H., 3,438,114.
Berman, Irwin; and Pai, David H., 3,439,405.
Connell, John Martin; and Gardner, William Austin, 3,467,587.
Cooper, Jacob; and Corbett, Carl E., 3,444,841.
Disley, Kenneth Thomas; Pearce, Roy George; Christopher, Leonard Henry; and Culver, Leonard James, 3,441,006.
Eich, Clarence C., 3,442,256.

Foldes, Gabriel F., 3,472,207.
Gorzegno, Walter P.; and Zipay, Albert J., 3,472,208.
Jorgensen, Svend M., 3,451,585.
LaCroix, Henry N., 3,464,788.
LaCroix, Henry N., 3,480,408.
Lee, Frank A.; and Kratsios, George, 3,439,653.
Magol, Byram Jamshed, 3,440,978.
McCallister, Robert A.; and Sinclair, Alan M., 3,432,265.
Nagy, Roland L.; and Weiss, Ronald A., 3,471,371.
Nelken, Harvey H., 3,450,106.
Perl, Alexander I., 3,474,344.
Philipps, Edward J.; and Martin, Joseph, 3,439,856.
Polcer, John, 3,464,581.
Stevens, Alan Ernest, 3,473,215.
Stevens, Alan Ernest; and Brissenden, Derek V., 3,485,999.
Stevens, Allan Ernest; Hill, William G.; and Aldous, David John, 3,461,269.
Whitney, Gilbert C., Jr.; and Schroeder, Joseph W., 3,431,763.
Whitney, Gilbert C., Jr.; and Schroeder, Joseph W., 3,469,426.
Whitney, Gilbert Clinton, Jr.; and Whitman, Raymond Clair, 3,475,938.
Winsor, Frederick J.; and Resko, Stephen J., 3,439,147.
Zahnstecher, Leonard W., 3,421,878.

Foster, William A., Jr. Coaster. 3,463,436, 8-26-69, Cl. 248-311.

Foster, William R.: *See*—
Boston, William G.; Brandner, Carl F.; and Foster, William R.,3,470,956.
Brandner, Carl F.; Dunlap, Peggy M.; Foster, William R.; and Hurd, Billy G.,3,437,141.
Dunlap, Peggy M.; and Foster, William R.,3,468,377.
Hurd, Billy G.; and Foster, William R.,3,469,630.

Foster, William R.; Hurd, Billy G.; and Dunlap, Peggy M., to Mobil Oil Corporation. Waterflood process taking advantage of chromatographic dispersion. 3,437,140, 4-8-69, Cl. 166-9.

Foster, William Vivian, to American Can Company. Sheet transfer and stacking device. 3,446,103, 5-27-69, Cl. 83-96.

Foster, William W., to Union Carbide Corporation. Silicone elastomer compositions containing powdered polyetrafluoroethylene. 3,449,290, 6-10-69, Cl. 260-37.

Foster-Milburn Company: *See*—
Stoughton, Richard Bahu, 3,472,931.

Fothergill, Graham Alwyn: *See*—
Osbond, John Mervyn; and Fothergill, Graham Alwyn,3,450,704.

Fotomatic Corporation: *See*—
Rogers, Elwood C., Jr., 3,439,177.

Fouad, Abdel-Azia A.: *See*—
Wang, Tsih Chang; Fouad, Abdel-Azia A.; and Woehler, Karl-heinz Edgar,3,483,403.

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A. 2-Alkanoyl-11-piperazino-dibenzocycloheptadiene derivatives. 3,461,126, 8-12-69, Cl. 260-268.

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A. 11-Piperazino-dibenzocycloheptadiene derivatives. 3,462,436, 8-19-69, Cl. 260-268.

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A.11-(4-Piperidyl) dibenzo [a,d] cycloheptadienes. 3,476,758, 11-4-69, Cl. 260-293.

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A.10-and 11-(4-piperidyl) dibenzo[a,d] cycloheptatrienes. 3,476,761, 11-4-69, Cl. 260-293.4

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A.5H-Dibenzo [a,d]-cycloheptatriene 10 or 11-(1,2,3, 6-tetrahydro-4-pyridyl) and derivatives thereof. 3,479,356, 11-18-69, Cl. 260-253.

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A. Dibenzo-cycloheptatriene derivatives. 3,480,624, 11-25-69, Cl. 260-240.

Fouche, Jean Clement Louis; and Gueremy, Claude Georges Alexandre, to Rhone-Poulenc S.A. Phenazine derivatives. 3,455,926, 7-15-69, Cl. 260-267.

Fouche, Jean Clement. 10-Amino substituted dibenzocycloheptadiene derivatives. 3,459,745, 8-5-69, Cl. 260-240.

Fouche, Lucien Frederic Henri Marcel; and Armand, Marc Roger, to Fives-Penhoet. Single-tube forced-circulation heat transfer devices. 3,431,893, 3-11-69, Cl. 122-32.

Foucry, Jean, to Compagnie Generale d'Electricite. Process for the preparation of electrode material from nickel salt and boron containing compound. 3,479,228, 11-18-69, Cl. 136-120.

Foufounis, Jean. Phonograph tone arm and mounting. 3,432,171, 3-11-69, Cl. 274-23.

Foufounis, Jean. Selection device for automatic record changer. 3,463,497, 8-26-69, Cl. 274-10.

Fougeres, Michel: *See*—
Cerles, Georges; and Fougeres, Michel,3,434,174.

Fougeront, Michel Louis. Direct current motor. 3,474,318, 10-21-69, Cl. 318-292.

Fouke Company, The: *See*—
Pingree, Samuel J.; and Batman, George A., 3,435,641.

Fould, Henry: *See*—
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves,3,444,098.

Foulds, Clyde H. Jet pump and valve combination. 3,470,826, 10-7-69, Cl. 103-262.

Foulet, Francois, to Societe A.M.O. Process for the manufacture of pistons made of a light alloy and having a cooling fluid circulation arrangement, for internal combustion engines. 3,464,100, 9-2-69, Cl. 29-156.5

Foulk, John M.: *See*—
Orndorff, Roy L., Jr.; and Foulk, John M.,3,453,900.

Foulke, Willing B. Leaf baler. 3,455,234, 7-15-69, Cl. 100-34.

Foulkes, John D. Fluid stream generator. 3,425,152, 2-4-69, Cl. 46-41.

Foulletier, Louis, to Ugine Kuhlmann. Process for the production of iodofluoroalkanes. 3,429,938, 2-25-69, Cl. 260-653.9

Foulletier, Louis, to Ugine Kuhlmann. Process for preparation of chlorotrifluoro- methane. 3,450,779, 6-17-69, Cl. 260-653.

Foulquier, Henri; and Peyrot, Jean-Pierre, to Commissariat a l'Energie Atomique. Welding process and apparatus. 3,441,710, 4-29-69, Cl. 219-125.

Foulquier, Henri; Roudier, Rene; and Thome, Paul, to Commissariat a l'Energie Atomique. Process and device for welding by electron bombardment. 3,454,740, 7-8-69, Cl. 219-121.

Foulquier, Henri; Roudier, Rene; and Thome, Paul, to Commissariat a l'Energie Atomique. Device for welding parts by electron bombardment. 3,463,899, 8-26-69, Cl. 219-121.

Foults, Jonathan A., to Scovill Manufacturing Company. Quick-connect safety coupling. 3,453,005, 7-1-69, Cl. 285-82.

Foundation for Advancement of the Psychiatric Sciences, Inc.: *See*—
Etter, Thomas L., 3,427,478.

Fountain, Bruce A.; Johnson, Neil E.; and Turner, William C., to Union Carbide Corporation. Apparatus for slideably supporting an insulating pipe. 3,472,474, 10-14-69, Cl. 248-55.

Fountain, Edmund M. Hospital bed with inflatable patient turning means. 3,485,240, 12-23-69, Cl. 128-33.

Fouquet-Werk Frauz & Planck: *See*—
Planck, Alfred, 3,425,241.

Four-D Productions: *See*—
Kent, James J., Jr., 3,434,713.

400 (four Hundred) KV-Farschungsgemeinschaft e.V.: *See*—
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner, 3,447,066.

Foure, Claude D.: *See*—
Marchal, Raymond H. F.; and Foure, Claude D.,3,420,737.

Foure, Francois Maurice Spire; and Smithson, David John, to Societe Industrielle Bull-General Electric (Societe Anonyme). Arrangement for the control of the recording of alphanumerical characters. 3,430,210, 2-25-69, Cl. 340-172.5

Foure, Francois Maurice Spire; and Smithson, David John, to Societe Industrielle Bull-General Electric (Societe Anonyme). System for storing coded character representations. 3,430,211, 2-25-69, Cl. 340-172.5

Foures, Guy: *See*—
Sabathie, Michel; and Foures, Guy,3,439,299.

Fourie, Philip John: *See*—
Freidmann, Eric Helmuth; Trembath, Timothy Richard; Cancrinus, Hendrik; and Fourie, Philip John,3,425,298.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John,3,425,297.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John,3,449,983.

Fournari, Pierre; Tirouflet, Jean; and Boichot, Claude. Certain 6-amino-2-(aryl or heteroaryl)-4- chromanone-hydrazones and derivatives. 3,468,897, 9-23-69, Cl. 260-296.

Fournel, Francis, to Produits Chimiques Pechiney-Saint-Gobain. Formaldehyde polymerization process and apparatus Formaldehyde polmerization process and apparatus. 3,423,363, 1-21-69, Cl. 260-67.

Fournier, Celestine Delina, to Fournier, Joseph Roger. Combination window. 3,455,060, 7-15-69, Cl. 49-445.

Fournier, Gilbert, to Ateliers et Chantiers du Havre Duchesne & Bossiere et Augustin-Normand Reunis. Cable hauling and releasing device. 3,465,941, 9-9-69, Cl. 226-177.

Fournier, Joseph Roger: *See*—
Fournier, Celestine Delina, 3,455,060.

Fournier, Paul W., to Universal Oil Products Company. Reinforced oval-form tubular screens. 3,483,992, 12-16-69, Cl. 210-497.1

Fournier, Roger H., to Norton Company. Crankshaft angular indexing apparatus for machine tools. 3,482,356, 12-9-69, Cl. 51-105.

Fouse, Frederick Z., to Anchor Hocking Corporation. Mold support for glassware forming machine. 3,477,841, 11-11-69, Cl. 65-307.

Fouse, Samuel S., to Westinghouse Electric Corporation. Bus duct with improved means for connecting housing structures. 3,458,647, 7-29-69, Cl. 174-84.

Fouse, Samuel S.; and Weimer, Charles L., to Westinghouse Electric Corporation. Bus duct having angularly adjustable sections. 3,459,874, 8-5-69, Cl. 174-86.

Foust, Oren J.: *See*—
Davis, Noah S.; and Foust, Oren J.,3,431,200.
Davis, Noah S.; and Foust, Oren J.,3,440,166.
Davis, Noah S.; Foust, Oren J.; and Withers, Thomas W.,3,440,165.

Fouts, Hollye Ray, to Celanese Corporation. Method for continuous peracetic acid analysis. 3,485,588, 12-23-69, Cl. 23-232.

Fouts, Paul G.: *See*—
Sarto, Jorma O.; and Fouts, Paul G.,3,444,846.

Fow, Robert S.; and Oberman, Joel R., to Radio Corporation of America. Method and apparatus for connecting leads to a printed circuit board. 3,425,021, 1-28-69, Cl. 339-17.

Fowkes, Francis Samuel: *See—*
Dickinson, John David; Fowkes, Francis Samuel; and Rose, Trevor James,3,428,576.

Fowkes, Frederick M.: *See—*
Lorensen, Lyman E.; Beardmore, James W.; and Fowkes, Frederick M.,3,475,393.

Fowler, Alan R.: *See—*
Grace, Alan G., 3,478,178.
Maxey, Alexander R., 3,426,976.

Fowler, Alexander; and Fowler, Evelyn R. Control for press brake. 3,451,236, 6-24-69, Cl. 72-25.

Fowler, Allan, R.: *See—*
Grace, Alan G., 3,435,354.

Fowler, Arnold L.: *See—*
Badali, Joseph A.; and Fowler, Arnold L.,3,421,408.

Fowler, Benjamin T.: *See—*
Edwards, David A.; Evans, Eric B.; and Fowler, Benjamin T.,3,468,945.

Fowler, DeVere A.: *See—*
Holland, Robert Barnsley; and Fowler, DeVere A.,3,441,245.

Fowler, Dewalt W., to Flum, Paul, Merchandising Ideas, Inc. Modular display unit having a plurality of wall panels. 3,429,428, 2-25-69, Cl. 206-45.31

Fowler, Eliot Patrick; Harrison, Donald; and Levell, Roy William, to United Kingdom Atomic Energy Authority. Nuclear flux measuring apparatus employing current fluctuations from neutron detectors. 3,426,199, 2-4-69, Cl. 250-83.1

Fowler, Evelyn R.: *See—*
Fowler, Alexander; and Fowler, Evelyn R.,3,451,236.

Fowler, Fred, Limited: *See—*
Evans, Philip Henry, 3,427,845.

Fowler, Galvin W., to United States of America, Army, mesne. Position marker. 3,431,852, 3-11-69, Cl. 102-32.

Fowler, Glen P., to General Electric Company. Cooking vessel probe ejector. 3,440,405, 4-22-69, Cl. 219-441.

Fowler, James E.: *See—*
De Vore, Bainard M.; Fowler, James E.; and Warthen, William P.,3,439,391.

Fowler, John H., to Rockwell Manufacturing Company. Wellhead. 3,438,653, 4-15-69, Cl. 285-133.

Fowler, John H., to Rockwell Manufacturing Company. Pipe joint having circumferentially spaced teeth coupling means. 3,442,536, 5-6-69, Cl. 285-27.

Fowler, John H., to Rockwell Manufacturing Company. Pipe apparatus. 3,454,289, 7-8-69, Cl. 285-144.

Fowler, John H., to Rockwell Manufacturing Company. Diverter. 3,472,317, 10-14-69, Cl. 166-0.5

Fowler, John H., to Rockwell Manufacturing Company. Pipe apparatus. 3,472,530, 10-14-69, Cl. 285-3.

Fowler, John H.; and Herd, David P., to Rockwell Manufacturing Company. Underwater well completion method and apparatus. 3,421,580, 1-14-69, Cl. 166-0.5

Fowler, Leslie E., to Beckman Instruments, Inc. Rectilinear recorder. 3,443,447, 5-13-69, Cl. 74-103.

Fowler, Leslie E.: *See—*
Siegelman, Abe; and Fowler, Leslie E.,3,427,635.

Fowler, Leslie L., to Bowser, Inc. Movable filter and magnetic sealing means. 3,464,557, 9-2-69, Cl. 210-97.

Fowler, Loren M.; and Burrell, Harry D., to Witco Chemical Company, Inc. Asphaltic materials. 3,440,073, 4-22-69, Cl. 106-273.

Fowler, Roscoe T.; and Kaufman, Harold B., Jr., to DCA Food Industries Inc. Machine for the production of frozen stick confections. 3,450,070, 6-17-69, Cl. 107-8.

Fowler, Theron R.: *See—*
Hamburg, Henry F.; and Fowler, Theron R.,3,482,237.

Fowler, Tony J.: *See—*
Clarke, Dennis; and Fowler, Tony J.,3,445,132.

Fowler, Vance G.: *See—*
Rodermund, Robert E.; Fowler, Vance G.; and Denning, David B.,3,426,521.

Fowler, Vernon J.: *See—*
Buhrer, Carl F.; and Fowler, Vernon J.,3,458,247.

Fowler, Vernon J., to General Telephone & Electronics Laboratories, Incorporated. Projection system. 3,429,641, 2-25-69, Cl. 352-198.

Fowler, William J.: *See—*
Curphey, David G.; and Fowler, William J.,3,432,032.

Fox, Alan John; and Smith, Norman William White, to North American Philips Company, Inc. Infrared radiation source utilizing two beams of coherent radiation and a discharge tube having a metallic grating therein. 3,439,167, 4-15-69, Cl. 250-84.

Fox, Anthony R., to Sports-Jet Industries, Inc., mesne. Inboard jet propulsion unit. 3,478,712, 11-18-69, Cl. 115-12.

Fox, Arthur G.; and Kibler, Lynden U., to Bell Telephone Laboratories, Incorporated. Optical maser having non-parallel brewster surfaces. 3,430,158, 2-25-69, Cl. 331-94.5

Fox, Carl B., Jr.: *See—*
Ulert, Izaak A., 3,480,228.

Fox, Charles J., to Eastman Kodak Company. Stable free radicals as activators for photoconductive and photohardenable polymer light- sensitive systems. 3,434,833, 3-25-69, Cl. 96-1.5

Fox, Charles J., to Eastman Kodak Company. Photoconductive elements containing 2,3,4,5- tetraaryl pyrrole. 3,485,625, 12-23-69, Cl. 96-1.5

Fox, Charles R., to Park Chemical Company. Thermocouple with leak detector. 3,453,151, 7-1-69, Cl. 136-232.

Fox, Charles W.; and Slaughter, Gerald M., to United States of America, Atomic Energy Commission. Brazing alloy. 3,427,155, 2-11-69, Cl. 75-170.

Fox, Clarence D., to Borg-Warner Corporation. Supplemental fuel system. 3,421,483, 1-14-69, Cl. 123-27.

Fox, Clyde C., to Westinghouse Electric Corporation. Laundry apparatus. 3,457,656, 7-29-69, Cl. 34-133.

Fox, Dale B.: *See—*
Patton, James W.; Argabright, Perry A.; Drayer, Dennis E.; and Fox, Dale B.,3,471,555.

Fox, Daniel W., to General Electric Company. Abrasive articles comprising a polyphenylene oxide binder. 3,485,607, 12-23-69, Cl. 51-298.

Fox, David: *See—*
Ruckel, Frank G.; and Fox, David,3,464,728.

Fox, Edward C., to Radio Corporation of America. Signal translating circuit providing signal- controlled time delay. 3,444,396, 5-13-69, Cl. 307-293.

Fox, Eugene N., to United States of America, Health, Education and Welfare. Alkaline extraction of M protein from group A hemolytic streptococci and products thereof. 3,480,610, 11-25-69, Cl. 260-112.

Fox, Eugene N., to United States of America, Health, Education and Welfare. Partially digested M protein vaccine and method of making same. 3,487,148, 12-30-69, Cl. 424-92.

Fox, Harold L.; and Thorne, Gale H., to I-T-E Imperial Corporation, mesne. Fluidic device. 3,472,255, 10-14-69, Cl. 137-81.5

Fox, Harry W., to Pratt & Whitney, Inc. Apparatus for forming thread rolling dies. 3,431,680, 3-11-69, Cl. 51-94.

Fox, Harry. Drain device. 3,465,654, 9-9-69, Cl. 94-33.

Fox Industries, Inc.: *See—*
Sloan, Roy R., 3,461,706.

Fox, James F., to Continental Can Company, Inc. Method of making window can closures. 3,472,417, 10-14-69, Cl. 220-67.

Fox, James F.: *See—*
Krizka, Jerry A.; and Fox, James F.,3,433,391.

Fox, James H., to Sunbeam Corporation. Solid state temperature control circuit with anticipation and compensation features. 3,456,095, 7-15-69, Cl. 219-501.

Fox, James H., to Wahl Clipper Corporation. Transmission for electric hair clipper. 3,458,932, 8-5-69, Cl. 30-220.

Fox, James H., to FMC Corporation. Grape harvester. 3,473,311, 10-21-69, Cl. 56-330.

Fox, James H., to Whal Clipper Corporation. Motor and longitudinally split housing structure for hair clipper. 3,479,540, 11-18-69, Cl. 310-50.

Fox, James William: *See—*
Coleman, James T.; and Fox, James William,3,433,480.

Fox, John A., to National Research Development Corporation. Intratubular cameras. 3,426,663, 2-11-69, Cl. 95-11.

Fox, John H., Jr., to Reynolds Metals Company. Beverage container having sight gage means. 3,447,375, 6-3-69, Cl. 73-327.

Fox, Leonard Haydn, to Raleigh Industries Limited. Epicyclic change speed gear hubs. 3,433,097, 3-18-69, Cl. 74-750.

Fox, Leslie L.: *See—*
Adornetto, Anthony J.; and Fox, Leslie L.,3,473,079.

Fox, Lester John, to Eskimo Pie Corporation. Flow control device. 3,433,261, 3-18-69, Cl. 137-608.

Fox, Marnell: *See—*
Fliger, Louis R., Jr.,3,477,680.

Fox, Nathaniel S.: *See—*
Handy, Richard L.; and Fox, Nathaniel S.,3,427,871.

Fox, Paul E.: *See—*
Bauer, Erich O.; Fox, Paul E.; and Mac Pherson, William F.,3,433,858.

Fox, Paul; and Broyles, Horace N. Door chime. 3,451,373, 6-24-69, Cl. 116-169.

Fox Products Company: *See—*
Alburger, William P., 3,481,310.
Godshalk, James B., 3,456,181.
Medlar, Lewis A., 3,443,191.

Fox, Richard C., to Chevron Research Company. Antievaporant process and composition. 3,431,062, 3-4-69, Cl. 21-60.5

Fox, Richard C., to Chevron Research Company. Process and composition for retarding water evaporation. 3,431,063, 3-4-69, Cl. 21-60.5

Fox, Richard C., to Chevron Research Company. Antievaporant process and composition. 3,431,064, 3-4-69, Cl. 21-60.5

Fox, Richard L.: *See—*
Braff, Joseph A.; and Fox, Richard L.,3,427,939.

Fox River Paper Corporation: *See—*
Vaurio, Frans V. E., 3,432,328.
Vaurio, Frans V. E., 3,440,076.
Fox, Robert B.; and Sturm, Ernst F. Golf practice device. 3,466,049, 9-9-69, Cl. 273-186.
Fox, Robert D., to Horizons Incorporated. Photographic element and diffusion process. 3,484,238, 12-16-69, Cl. 96-29.
Fox, Russell E.: *See—*
Rabinowitz, Mario; and Fox, Russell E.,3,462,573.
Fox, Sherwood N.: *See—*
Sherwin, Martin B.; Fox, Sherwood N.; and Colton, John White,3,443,898.
Fox, Walter A.: *See—*
Robinson, Alfred J.; and Fox, Walter A.,3,464,036.
Fox, William B.: *See—*
Anderson, Lowell Ray; and Fox, William B.,3,436,424.
Fox, William B.; Mac Kenzie, James S.; and Vanderkooi, Nicholas, Jr., to Allied Chemical Corporation. Process for making trifluoroamine oxide. 3,428,540, 2-18-69, Cl. 204-177.
Huggins, Dale K.; and Fox, William B.,3,423,168.
Fox, William L., to Dole Valve Company, The. Refrigerator with automatic ice cube maker. 3,449,919, 6-17-69, Cl. 62-71.
Fox, Zola, to Thiokol Chemical Corporation. Fluid control device. 3,478,761, 11-18-69, Cl. 137-68.
Fox-Stanley Photo Products, Inc.: *See—*
Becker, Douglas L., 3,465,624.
Foxboro Company, The: *See—*
Akeley, Lloyd T., 3,474,673.
Bailey, John E., 3,433,066.
Boutilier, James A., 3,466,595.
Bowditch, Hoel L., 3,430,511.
Bowditch, Hoel L., 3,431,935.
Bowditch, Hoel L.; and Johnsen, Christian Frederick, 3,482,257.
Davis, Lincoln K., 3,438,058.
Ezekiel, Frederick D.; and Miller, Richard W., 3,465,574.
Flanagan, Allan L.; and Earle, William E., 3,458,722.
Flanagan, Allan L., 3,483,543.
Hatch, Richard W., Jr.; and Kinner, Hans-Dieter, 3,472,259.
Hatch, Richard W., Jr., 3,481,353.
Kinner, Hans-Dieter, 3,457,934.
Kister, Dale F., 3,478,767.
McNabb, George C., 3,447,373.
Nazareth, Alfred, Jr., 3,466,557.
Nelson, Kenneth E., 3,426,287.
Neuman, Herbert A., 3,426,781.
Nudd, Howard W., Jr., 3,426,594.
Olsen, Everett O., 3,434,120.
Peterson, Neal Duane, 3,482,169.
Rice, Willard W., Jr., 3,448,393.
Richardson, David A.; and Olsen, Everett O., 3,467,874.
Robinson, Robert J., 3,440,885.
Robinson, Robert J., 3,441,053.
Russell, Douglas D., 3,448,293.
Sanford, Philip H., 3,459,045.
Sanford, Philip H., 3,468,165.
Sanford, Philip H., 3,485,104.
Sonnenberg, Frederic A.; and DeVries, George, 3,479,865.
Swift, Willard Everett, 3,435,221.
Foxell, Clive Arthur Peirson; and Summers, John Gilbert, to North American Philips Company, Inc. Semiconductor device. 3,443,169, 5-6-69, Cl. 317-234.
Foxx, Robert J.; and Krause, Edward H., Jr., to Nordberg Manufacturing Company. Spike driver. 3,426,698, 2-11-69, Cl. 104-17.
Foy, Leonard A.; and Provence, Thomas K., Jr., to Mobil Oil Corporation. Vent cap. 3,469,520, 9-30-69, Cl. 98-122.
Foy, Peter S. Theatrical transportation apparatus. 3,476,385, 11-4-69, Cl. 272-24.
F. P. T. Hycaflex, Inc.: *See—*
Beckman, John B.; and Atkins, Ralph E., 3,435,488.
Fraase, Edward O.; and Marsh, Glenn A., to Union Oil Company of California, mesne. Tetrafluoroethylene-coated catalytic nonporous metallic fuel cell anode and process of making same. 3,451,856, 6-24-69, Cl. 136-120.
Fraatz, Robert E., to Shell Oil Company. Fluid distribution bar. 3,431,889, 3-11-69, Cl. 118-315.
Fraboni, Henry J.; Mapes, Harold C.; and Mullin, Newell D., to Trayer Products, Incorporated. Saling means for kingpin thrust bearing assemblies. 3,438,647, 4-15-69, Cl. 280-96.1
Frachon, Marc, to Coreci, Compagnie de Regulation et de Controle Industriel. Process for making pyrometric probes or rods. 3,434,207, 3-25-69, Cl. 29-612.
Fracke, Karl Christoph, to U.S. Industries, Inc. Machine tool with different speeds on forward and return stroke. 3,468,173, 9-23-69, Cl. 74-52.
Fracke, Karl, to Langestein & Schemann Aktiengesellschaft. Presses. 3,429,174, 2-25-69, Cl. 72-453.
Fractel S.A.: *See—*
Desplats, Andre Emile Evariste; and Levardon, Raymond Daniel Maurice, 3,485,478.
Fradenburgh, John: *See—*
Neal, Morris P.; Reichert, Donald G.; and Fradenburgh, John,3,482,489.
Frader, Edward A.: *See—*
Abromavage, John C.; and Frader, Edward A.,3,464,720.
Fradera Pellicer, Carlos; and Fradera Pellicer, Mario. Method of manufacturing decorative panels and the resulting article formed thereby. 3,438,838, 4-15-69, Cl. 161-5.
Fradera Pellicer, Mario: *See—*
Fradera Pellicer, Carlos; and Fradera Pellicer, Mario,3,438,838.
Fradette, Joseph J., to White Motor Corporation. Method and apparatus for incandescent filament mounting. 3,484,600, 12-16-69, Cl. 240-90.
Frageman, Donald L.: *See—*
Miller, Roy W.; and Frageman, Donald L.,3,438,513.
Fragen, Nathan: *See—*
Baldwin, Richard H.; and Fragen, Nathan,3,472,630.
Fragnito, Daniel A., to Carrier Corporation. Air distribution unit. 3,434,409, 3-25-69, Cl. 98-41.
Fragnito, Daniel A.; and Herb, Carl C., to Carrier Corporation. Air conditioning unit. 3,441,082, 4-29-69, Cl. 165-123.
Fragnito, Daniel A.: *See—*
Heck, William C.; and Fragnito, Daniel A.,3,465,814.
Fraguada, Jose M.; and Le Beau, Robert W., to Warner-Lambert Pharmaceutical Company. Quantitative determination of serum calcium. 3,457,045, 7-22-69, Cl. 23-230.
Frahm, Leland J.: *See—*
Bailey, Kenneth E.; Frahm, Leland J.; and Leigh, Theodore M.,3,437,157.
Frailly, Nicholas D., to Eaton Yale & Towne Inc. External retaining ring. 3,431,809, 3-11-69, Cl. 85-8.8
Frailly, Nicholas D., to Eaton Yale & Towne, Inc. Internal retaining ring. 3,469,494, 9-30-69, Cl. 85-8.8
Fraim, Clinton W., to Motor Wheel Corporation. Gravity and forced hot air furnace. 3,444,854, 5-20-69, Cl. 126-110.
Fraim, Norman R.: *See—*
Barbeau, Raymond A.; Bradford, Rex C.; Fraim, Norman R.; and Lockett, Donald E.,3,449,756.
Frainnet, Emile Eugene; Calas, Raymond Jean; and Colleuille, Yves, to Rhone-Poulenc S.A. Ni/silane catalyst in hydrogenation of organic compounds. 3,440,272, 4-22-69, Cl. 260-468.
Fraioli, Anthony Vincent, to American Cyanamid Company. Combination electrical feed-through and filling tube used in conjunction with a battery case. 3,475,226, 10-28-69, Cl. 136-162.
Fraioli, Donato M. Air delivery apparatus for air supported structures. 3,440,776, 4-29-69, Cl. 52-2.
Fraioli, Donito M., to Air-Tech. Industries, Inc. Closure for pressurized structure. 3,483,657, 12-16-69, Cl. 49-252.
FRAKO Kondensatoren- und Apparatebau G.m.b.H.: *See—*
Walz, Alfred; and Ostreicher, Robert, 3,454,868.
Fraleigh, William P.; and Melanson, Alcide, to H & A Supply Company Limited. Sashless window with meeting rail. 3,468,064, 9-23-69, Cl. 49-413.
Fralick, Stanley C.; Knox-Seith, John K.; and Wilson, Dennis L., to Sylvania Electric Products, Inc. Adaptive pattern recognition system. 3,484,746, 12-16-69, Cl. 340-146.3
Fram Corporation: *See—*
Sherburn, Peter Eugene, 3,421,294.
Vandersip, Henry Annis, 3,420,377.
Frampton, Charles J.; and Maul, John A., to Addressograph-Multigraph Corporation. Printing machines with form clamping means. 3,446,144, 5-27-69, Cl. 101-269.
Frampton, Orville D.: *See—*
Feldman, Julian; Saffer, Bernard A.; and Frampton, Orville D.,3,480,685.
Frampton, Vernon L.: *See—*
Berardi, Leah C.; Martinez, Wilda H.; Boudreaux, Gordon J.; Piccolo, Biagio; and Frampton, Vernon L.,3,463,641.
Franc, Charles. Illuminated ornament. 3,463,918, 8-26-69, Cl. 240-10.
Franc, Victor G., to Robertson, H. H., Company. Corrugated building sheet. 3,421,279, 1-14-69, Cl. 52-630.
Franc, Victor G., to Robertson, H. H. Company. Method and apparatus for making corrugated building sheets. 3,421,353, 1-14-69, Cl. 72-181.
Francavilla, Pier Nicola: *See—*
Lauria, Francesco; Giraldi, Pier Nicola; Francavilla, Pier Nicola; Nannini, Giuliano; and Logemann, Willy,3,452,085.
France Bed Co., Ltd.: *See—*
Ikeda, Minoru, 3,430,274.
France, Bernard H., to Radiation Incorporated. System for gating differential or single-ended signals. 3,479,530, 11-18-69, Cl. 307-254.
Francel, Josef; Jagodzinski, Robert F.; and Mansur, Fred E., to Owens-Illinois, Inc. Coated glass and method of making same. 3,460,960, 8-12-69, Cl. 117-33.3
Franceschi, Giovanni: *See—*
Bianchi, Maria Luisa; Franceschi, Giovanni; Marnati, Maria Pia; and Spalla, Celestino,3,467,579.

Franceschi, Giovanni; and Arcamone, Federico, to Societa Farmaceutici Italia. 4'-Substituted derivatives of 1,18-di[2',3',6'-trimethylphenyl-(1')]-3,7,12,16-tetramethyl- 1,3,5,7,9,11,13,15,17-octadecanonaene. 3,468,931, 9-23-69, Cl. 260-479.
Franceschi, Rodolfo, to I.T.E.S. Industria Ticinese Essiccatoi Speciali S.p.A. Drier for leather. 3,447,246, 6-3-69, Cl. 34-92.
Francesconi, Aldo: *See*—
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,669.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,670.
Franchi, Louis J.: *See*—
Kirchhein, Albert T.; and Franchi, Louis J.,3,454,849.
Franchi, Pierre, to L'Electronique Appliquee. Ultrasonic gauge system. 3,486,377, 12-30-69, Cl. 73-290.
Francia, Giovanni. Multiple mirrored apparatus utilizing solar heat. 3,466,119, 9-9-69, Cl. 350-299.
Francis, Albert W.: *See*—
Bowen, Glen L.; Fishman, Milton; McVay, John H.; and Francis, Albert W.,3,439,959.
Francis, Alex W., Jr.; and Maher, Joseph L., to Combustion Engineering, Inc. Method for treating crude petroleum production. 3,441,499, 4-29-69, Cl. 208-187.
Francis, Alex W., Jr.; and Maher, Joseph L., to Combustion Engineering, Inc. Method and means for field-processing crude petroleum production. 3,453,205, 7-1-69, Cl. 208-187.
Francis, Arthur B., to Varian Associates. Holder and positioning mechanism for the plates of a multiple beam interferometer. 3,433,569, 3-18-69, Cl. 356-109.
Francis, Arthur B.: *See*—
Minard, Charles D.; and Francis, Arthur B.,3,442,594.
Francis, David W.; and Heilman, William J., to Gulf Research & Development Company. Use of glycerin as an antifoam agent. 3,458,567, 7-29-69, Cl. 260-526.
Francis, James H., to Clayton and Lambert Manufacturing Company. Continuous grain drying apparatus. 3,449,840, 6-17-69, Cl. 34-187.
Francis, James M.: *See*—
Mecklin, Charles D.; and Francis, James M.,3,463,397.
Mecklin, Charles D.; and Francis, James M.,3,479,766.
Francis, John E.: *See*—
Doebel, Karl J.; and Francis, John E.,3,422,105.
Doebel, Karl J.; and Francis, John E.,3,429,882.
Doebel, Karl J.; and Francis, John E.,3,479,355.
Francis, John P.: *See*—
Nissim, Samuel; and Francis, John P.,3,420,992.
Francis, John P. Supporting means for automobile windshield weather visor. 3,424,490, 1-28-69, Cl. 296-95.
Francis, John P. amin frame of a vehicle, especially of a motor vehicle Automobile windshield weather visor and supporting means therefor. 3,481,644, 12-2-69, Cl. 287-189.365
Francis, Joseph E.; and Amey, Arnold L., to F & E Manufacturing Company. Air flow control system for internal combustion engine. 3,465,735, 9-9-69, Cl. 123-117.
Francis, Joseph George. Picker for asparagus and like products and process of picking such products. 3,452,525, 7-1-69, Cl. 56-327.
Francis, Leo H., to Foremast-McKesson, Inc., mesne. Process of treating whey. 3,447,930, 6-3-69, Cl. 99-57.
Francis, Leslie Walter; and Gostling, Peter Eric, to Kwikform Limited. Builder's scaffolding. 3,420,557, 1-7-69, Cl. 287-54.
Francis Peter S.; and Mc Graw, Leslie D., to Carlen Industries, Inc., mesne. Electroplating process. 3,466,232, 9-9-69, Cl. 204-30.
Francis, Ray D., to Swift & Company. Bacon slicer weight control. 3,476,198, 11-4-69, Cl. 177-50.
Francis, Raymond J., to Curtis Development & Mfg. Co. Electronic alternating current switch. 3,436,609, 4-1-69, Cl. 317-148.5
Francis, Ronald, to Itek Corporation. Photocopying system based on photosensitive metal carbonyls. 3,445,230, 5-20-69, Cl. 96-48.
Francis, Samuel A., to Buzzards Corporation, The, mesne. Bathythermograph system. 3,483,749, 12-16-69, Cl. 73-344.
Francis, Thomas; Jones, Maurice H.; and Thorne, Melanie P., to Ontario Research Foundation. Mixtures of blowing agents and foamable compositions of matter employing the same. 3,425,963, 2-4-69, Cl. 260-2.5
Francis, William C.: *See*—
Burdick, Donald L.; Francis, William C.; and Jones, Joseph W, Jr.,3,448,084.
Francisco, Bernardino, to Olivetti, Ing., C., & C., S.p.A. Ribbon feeding device for a variable spacing typewriter. 3,444,979, 5-20-69, Cl. 197-151.
Francisco, Bernardino, to Olivetti, Ing., C., & C., S.p.A. Printing preventing device for predisposing the justification of the right margin in a typewriter. 3,450,245, 6-17-69, Cl. 197-84.
Franciszczak, Eugeniusz: *See*—
Krzewinski, Zbigniew; Franciszczak, Eugeniusz; Jerzykiewicz, Jerzy; and Kostrzewski, Janusz,3,464,635.
Franck, Abraham: *See*—
Cohn, Marius; and Franck, Abraham,3,460,117.
Franck, Jack, to Coast Carton Corporation. Package. 3,464,544, 9-2-69, Cl. 206-78.
Francklyn, Gilbert W. Shellfish harvesting machine. 3,462,858, 8-26-69, Cl. 37-55.
Franco-Ferreira, Edgard A., to United States of America, Atomic Energy Commission. Fuel element for neutronic reactor and method of fabrication thereof. 3,454,468, 7-8-69, Cl. 176-78.
Franco, Simone, to Ferrania S.p.A. Epoxy polymer derived polymers containing quaternary phosphonium groups. 3,429,839, 2-25-69, Cl. 260-8.
Francois, Henri: *See*—
Carpentier, Serge; Delarue, Roger; Francois, Henri; Grand-Clement, Anne-Marie; Portal, Guy; and Soudain, Georges,3,449,136.
Francois, Paul L.: *See*—
Humbert, Kingsley E., Jr.; Hough, Lewis M., Jr.; and Francois, Paul L.,3,467,256.
Francois Tissier, Robert Charles: *See*—
Ninet, Leon; Renaut, Jacques Albert; and Francois Tissier, Robert Charles,3,421,980.
Frand, Erwin A.; and Clark, Samuel M., to Minnesota Mining and Manufacturing Company. Bonding of fabric with adhesive thread. 3,457,739, 7-29-69, Cl. 66-202.
Frandee Corporation: *See*—
Hoover, Dorothy H., 3,477,065.
Frandsen, Jack W.; and Frandsen, Wallace C. Automatic drawbar hitch. 3,450,220, 6-17-69, Cl. 180-14.
Frandsen, Lee Raymond; and Louis, Joseph Edmund, to Sundstrand Corporation. Transmission. 3,455,184, 7-15-69, Cl. 74-687.
Frandsen, Richard L. Pressurized-water-operated cleaning apparatus. 3,431,573, 3-11-69, Cl. 15-98.
Frandsen, Wallace C.: *See*—
Frandsen, Jack W.; and Frandsen, Wallace C.,3,450,220.
Franet, Francis L. Ski boot construction. 3,486,247, 12-30-69, Cl. 36-2.5
Frangatos, Gerassimos: *See*—
Chibnik, Sheldon; and Frangatos, Gerassimos,3,487,108.
Frangeco, Societe Anonyme Francaise, Puteaux: *See*—
Joseph, Jean-Jacques, 3,431,017.
Frank, Alan I. W., Corporation, The: *See*—
Frank, Alan I. W., 3,421,681.
Frank, Alan I. W., 3,462,996.
Frank, Alan I. W., to Frank, Alan I. W., Corporation, The. Cup and lid. 3,421,681, 1-14-69, Cl. 229-43.
Frank, Alan I. W., to Frank, Alan I. W., Corporation, The. Mechanism for handling and testing containers. 3,462,996, 8-26-69, Cl. 73-45.3
Frank, Alan I., to Scan-Data Corporation. Data entry system. 3,487,371, 12-30-69, Cl. 340-172.5
Frank, Albert; Kraushaar, Alfred; Margreiter, Hans; and Schunk, Roland, to Biochemie G.m.b.H.2-(β-Hexamethylene imino ethyl) cyclohexanone- 2-carboxylic acid benzyl ester and salts thereof. 3,432,490, 3-11-69, Cl. 260-239.
Frank, Alfred L.; and Lengenfelder, Frank J., to United States of America, Navy. Vacuum/inert gas quenching chamber. 3,475,014, 10-28-69, Cl. 266-4.
Frank, Arlen W., to Hooker Chemical Corporation. Di-o-biphenylyl diphenyl bisphenol a bis phosphate and process. 3,422,453, 1-14-69, Cl. 260-930.
Frank, Arlen W.; and Gordon, Irving, to Hooker Chemical Corporation. Novel quaternary phosphonium salts. 3,459,795, 8-5-69, Cl. 260-526.
Frank, Barton, to Bloom, Henry. Edible food container forming machine and method. 3,431,869, 3-11-69, Cl. 107-4.
Frank, Bernard: *See*—
Gilbert, Jack J., 3,436,851.
Frank, Bernard, to Franzus, Industries, Inc. Fabric treatment means and methods. 3,470,719, 10-7-69, Cl. 68-222.
Frank, Bernard, to Franzus Industries, Inc. Portable clothes steamer. 3,485,065, 12-23-69, Cl. 68-222.
Frank, Carl H. Carrying bag having oppositely curved slots in upper panel portions of bag and flexible removable handle. 3,456,865, 7-22-69, Cl. 229-54.
Frank, Dieter; and Polysius, Jochen, to Polysius G.m.b.H. Mounting for a bearing ring on a rotary drum. 3,481,636, 12-2-69, Cl. 287-52.05
Frank, Earl E.: *See*—
Wilson, Rosser L.; Frank, Earl E.; and Sperry, Edward C.,3,449,562.
Frank, Edward; and Bray, Ralph, to Philco-Ford Corporation. Electronic tuning apparatus. 3,431,787, 3-11-69, Cl. 74-10.27
Frank, Gerard A., to Western Electric Company, Incorporated. Apparatus for electroplating apertured and irregularly shaped substrates. 3,424,667, 1-28-69, Cl. 204-237.
Frank, Harry J. Inductive load controller. 3,456,124, 7-15-69, Cl. 307-141.
Frank, Heinrich H., to Emerson Electric Co. Interlock reversing switch. 3,422,296, 1-14-69, Cl. 310-68.
Frank, Heinrich H., to Emerson Electric Co. Drive release power tool. 3,427,672, 2-18-69, Cl. 10-89.

Frank, Jacob. Dynamoelectric machine with rotating armature having partially distributed spiral windings. 3,426,226, 2-4-69, Cl. 310-162.
Frank, Joe; and Shipley, Charles A., to United States of America, Navy. Utilizing a resilient waveguide wall. 3,421,116, 1-7-69, Cl. 333-24.1
Frank, Johann E.: *See—*
Schroeer, Rudi M.; Frank, Johann E.; and Tinsley, Ronald E.,3,457,770.
Frank, Josef; Clemons, Maurice M.; Huber, John A.; and Baringer, Berlyn E., to U.S. Industries, Inc. Strip stock feeding device. 3,481,523, 12-2-69, Cl. 226-172.
Frank, Karl. Method of warp knitting. 3,474,644, 10-28-69, Cl. 66-86.
Frank, Karl; and Heilmann, Max, to Agfa-Gevaert Aktiengesellschaft. Developer compositions containing sequestering agents. 3,467,521, 9-16-69, Cl. 96-66.1
Frank, Karl; Himmelmann, Wolfgang; and Ulrich, Hans, to Agfa-Gevaert Aktiengesellschaft. Swelling reduction treatment for the accelerated processing of gelatin photographic materials. 3,467,519, 9-16-69, Cl. 96-50.
Frank, Klaus: *See—*
Feldmann, Klaus; Frank, Klaus; Gerhardt, Wilfried; Schmidt, Paul; and Kandler, Joachim,3,471,595.
Querengasser, Hugo; Krause, Johannes; Frank, Klaus; and Cziska, Johann,3,431,103.
Frank, Kurt: *See—*
Ort, Werner; and Frank, Kurt,3,474,511.
Frank, Lee F., to Eastman Kodak Company. V-grooved optical system. 3,443,869, 5-13-69, Cl. 355-47.
Frank, Lee F., to Eastman Kodak Company. Compact document copier. 3,451,752, 6-24-69, Cl. 355-8.
Frank, Lester L. Collapsible camper. 3,458,232, 7-29-69, Cl. 296-27.
Frank, Louis M., to Lase Co., The. Light activated trigger for photographic flash system. 3,487,221, 12-30-69, Cl. 250-212.
Frank, Louis; and Barr, Harold N., to Hittman Associates, Inc. Method for making oriented fiber or whisker composites. 3,432,295, 3-11-69, Cl. 75-206.
Frank, Manfred H., to Hellige, Fritz, & Co., G.m.b.H. Recorder having distinguishable records. 3,478,364, 11-11-69, Cl. 346-62.
Frank, Mark H., to General Motors Corporation. Belt-type drive with adjustable pulley tensioner. 3,475,982, 11-4-69, Cl. 74-242.15
Frank, Max S., to Richter, Roy E., mesne. Process for making automobile wheels. 3,451,115, 6-24-69, Cl. 29-159.03
Frank, Milton A., Sr., to United States of America, Army. Step block assembly. 3,454,270, 7-8-69, Cl. 269-91.
Frank, Richard R.: *See—*
McGraw, Thomas F.; and Frank, Richard R.,3,464,122.
Frank, Richard W.; and Partridge, Gordon R., to General Radio Company. Method of and apparatus for frequency display. 3,422,422, 1-14-69, Cl. 340-347.
Frank, Robert G.; and Semmel, John W., Jr., to General Electric Company. High temperature alloy. 3,433,631, 3-18-69, Cl. 75-171.
Frank, Rudolf: *See—*
Witzig, Karl E.; and Frank, Rudolf,3,452,580.
Frank, Ulrich A., to Hoffmann-La Roche Inc., mesne. Pressure to current transducing manometer. 3,470,745, 10-7-69, Cl. 73-398.
Frank, Virginia F. Garment construction. 3,448,460, 6-10-69, Cl. 2-74.
Frank, Walter K. H.; and Packer, Ray B., to Quaker Oats Company, The. Container orienter. 3,439,792, 4-22-69, Cl. 198-33.
Frank, William L.: *See—*
Tschanz, August E.; and Frank, William L.,3,424,027.
Frank, William Rudolph, to Deere & Company. Carrying-type scraper with horizontally movable apron. 3,474,550, 10-28-69, Cl. 37-129.
Franke, Rudiger: *See—*
Tax, Hans; and Franke, Rudiger,3,482,720.
Franke, Wallace G. Compound pipe chuck. 3,464,711, 9-2-69, Cl. 279-7.
Franke, Walter. Cooling system for rotary piston engines. 3,465,728, 9-9-69, Cl. 123-8.
Frankel, Henry: *See—*
Dernier, Paul D.; and Frankel, Henry,3,468,814.
Frankel, Max; Gertner, David; Wagner, Daniel; and Zilkha, Albert, to Yissum Research Development Company. Organo-tin polymers and copolymers prepared by interfacial condensation. 3,426,002, 2-4-69, Cl. 260-78.4
Frankel, Milton B., to Aerojet-General Corporation. Aminonitriles. 3,472,889, 10-14-69, Cl. 260-465.5
Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J., to Aerojet-General Corporation. Dichloro-polynitro-azaalkanes. 3,440,282, 4-22-69, Cl. 260-583.
Frankel, Milton B.; and Tieman, Charles H., to Aerojet-General Corporation. Process for preparing nitraza amines. 3,429,917, 2-25-69, Cl. 260-556.
Frankel, Samuel H., to Allen Electric and Equipment Company. Joint for outside rear view mirrors. 3,433,511, 3-18-69, Cl. 287-14.
Frankel, Solomon. Stepping mechanism. 3,436,976, 4-8-69, Cl. 74-143.
Franken, Peter A.; Cross, Lee A.; and Cross, Lloyd G., to Lear Siegler, Inc. Laser spectroscopy. 3,463,591, 8-26-69, Cl. 356-85.
Frankenberg, Henry E., to Continental Can Company, Inc. Method of making a metallic can and cover. 3,428,010, 2-18-69, Cl. 113-120.
Frankenfeld, John W.; Cahn, Robert P.; and Zaybekian, Philip, to Esso Research and Engineering Company. Coagulating microbial cells to enhance their separation. 3,427,223, 2-11-69, Cl. 195-1.
Frankenstein Group Limited: *See—*
Evans, Frederick M., 3,464,515.
Hawkins, James Mitchell, 3,475,774.
Oldham, Walter, 3,448,471.
Sullivan, Stuart, 3,447,175.
Frankenstein, Harold L.: *See—*
Rush, William A.; and Frankenstein, Harold L.,3,442,094.
Frankeny, Julius L.; and Voiles, Kenneth E., to United States of America, Atomic Energy Commission. Centrifugal casting apparatus. 3,451,467, 6-24-69, Cl. 164-297.
Frankford Trust Company, executor, Philadelphia, Pa.: *See—*
Williams, Judson, deceased, late of Cornwells Heights, by; and Frankford Trust Company, executor, Philadelphia, Pa.,3,426,645.
Frankfurt, Sandor. Fire alarm. 3,475,744, 10-28-69, Cl. 340-227.1
Frankland, Albert Ernest, to Weyerhaeuser Company. Process for improving the durability of wood surfaces. 3,453,132, 7-1-69, Cl. 117-9.
Franklin, Burton P.: *See—*
Davis, Albert W.; and Franklin, Burton P.,3,450,102.
Franklin, David M., to Steelcraft Corporation. Liner construction for incerators. 3,451,363, 6-24-69, Cl. 110-18.
Franklin, Donald R. L., to American Hospital Supply Corporation, mesne. Disposable surgical drape construction. 3,482,567, 12-9-69, Cl. 128-132.
Franklin Electric Co., Inc.: *See—*
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R., 3,432,987.
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R., 3,466,840.
Jacobs, David R., 3,461,254.
Schaefer, Edward J.; Hansen, Omar, Jr.; and McVicker, Robert F., 3,466,849.
Streater, August L., 3,467,903.
Franklin Gno Corporation: *See—*
Wernlund, Roger F., 3,434,150.
Franklin Institute, The: *See—*
Goodman, Robert M., 3,430,256.
Inoue, Nobuo, 3,481,190.
Franklin, James W.: *See—*
Wells, David R.; Schell, Elmer H.; and Franklin, James W.,3,482,813.
Franklin, Joseph D., to OPTOmechanisms, Inc. Target measuring means. 3,473,227, 10-21-69, Cl. 33-1.
Franklin Manufacturing Company: *See—*
Jahr, Richard T., 3,467,938.
Franklin Mint, Inc., The: *See—*
Segel, Joseph M., 3,478,870.
Franklin, Richard N., to General Dynamics Corporation. Force-to-frequency transducer. 3,435,377, 3-25-69, Cl. 332-26.
Franklin, Robert C.; and Boyd, William R., to Beckman Instruments, Inc. Signal source recording identification system. 3,453,645, 7-1-69, Cl. 346-49.
Franklin, Robert J., to Schenley Industries, Inc. Magnetic display. 3,464,134, 9-2-69, Cl. 40-142.
Franklin, Russell N. Gas leak detection. 3,420,091, 1-7-69, Cl. 73-23.
Franklin, Theodore P. Traction device for automotive vehicles. 3,428,151, 2-18-69, Cl. 188-4.
Franklin, William E. Shopping cart. 3,460,850, 8-12-69, Cl. 280-47.2
Franklin, William S., to International Telephone and Telegraph Corporation. Simplified stacked semiconductor device. 3,449,640, 6-10-69, Cl. 317-234.
Franko-Filipasic, Borivoj Richard: *See—*
Start, John Francis; Seglin, Leonard; and Franko-Filipasic, Borivoj Richard,3,423,330.
Franks, James C., to Monsanto Company. Chromatographic method. 3,486,300, 12-30-69, Cl. 55-67.
Franks, John T., Jr.: *See—*
Apicella, Anthony M., Jr.; and Franks, John T., Jr.,3,465,310.
Apicella, Anthony M., Jr.; and Franks, John T., Jr.,3,466,639.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr.,3,425,046.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr.,3,430,216.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr.,3,465,318.
Franks, Kenneth W., to Teletype Corporation. Method of plating through holes. 3,461,045, 8-12-69, Cl. 204-9.
Franks, Raymond E., to ESL, Incorporated. Artificial dielectric lens. 3,430,249, 2-25-69, Cl. 343-911.

Franks, Raymond E., to ESL, Incorporated. Quadruply ridged waveguide and horn antenna. 3,458,862, 7-29-69, Cl. 343-786.
Franks, Robert L., Jr.; and Fontenot, Frank C. Apparatus for closing openings. 3,449,860, 6-17-69, Cl. 49-317.
Franksson, Jan Rolf: *See—*
Safholm, Sven Tore Anders; Sundquist, Bengt Lennart; and Franksson, Jan Rolf,3,473,514.
Frankulin, Robert C.: *See—*
Nelson, Donald A.; and Frankulin, Robert C.,3,470,993.
Frankus, Ernst; and Flick, Kurt, to Chemie Gruenenthal G.m.b.H. 1-(m-Hydroxyphenyl)-2-dialkylamino methyl- cycloalkenes and the salts thereof and the process of preparing the same. 3,470,249, 9-30-69, Cl. 260-570.5
Frano, John. Apparatus for manufacturing hand rails for circular stairways and method therefor. 3,421,559, 1-14-69, Cl. 144-145.
Franscioni, Gene F. Apparatus for repairing a cracked baseball bat. 3,472,294, 10-14-69, Cl. 144-4.
Franson, Otto Elwing, to Munksjo Aktie Bolag. Method for spreading sheets of two adjacent pairs of sheets. 3,486,421, 12-30-69, Cl. 93-35.
Franssen, Pierre J.: *See—*
Dikotter, Gerardus P.; Schaapveld, Arnoldus A. W.; and Franssen, Pierre J.,3,428,597.
Frant, Martin S.: *See—*
Juda, Walter; and Frant, Martin S.,3,423,244.
Frant, Martin S., to Orion Research, Inc. Fluoride sensitive electrode and method of using same. 3,431,182, 3-4-69, Cl. 204-1.
Frant, Martin S., to Orion Research, Inc. Conformal dish. 3,467,591, 9-16-69, Cl. 204-195.
Shiller, Stanley L.; and Frant, Martin S.,3,442,782.
Frantz, Charles E.; and Vlacil, Frank F., to United States of America, Atomic Energy Commission. Force readout system. 3,446,067, 5-27-69, Cl. 73-141.
Frantz, Dolph G.; and Joseph, William. Adjustable binocular worn as glasses. 3,420,599, 1-7-69, Cl. 350-146.
Frantz, John K.: *See—*
Hatherell, George A.; and Frantz, John K.,3,441,718.
Frantz, John K., to National Screw & Manufacturing Company, The. Electronic network for machine counting operations. 3,474,265, 10-21-69, Cl. 307-308.
Frantz Manufacturing Company: *See—*
Holland, John P., 3,484,812.
Frantz, Rene. Apparatus and method for manufacturing structural components. 3,486,536, 12-30-69, Cl. 140-71.
Frantz, Robert N.; Ryszewski, Vincent J.; and Gilmour, Jack L., to Chrysler Corporation. Drop out front cross member. 3,441,289, 4-29-69, Cl. 280-106.
Frantz, Virgil L., to Graham-White Sales Corporation. Automatic unclogging device for fluid locomotive sanding systems. 3,455,588, 7-15-69, Cl. 291-3.
Frantzen, John J., to Buckbee-Mears Company. Method of etching fine filamentary apertures in thin metal sheets. 3,423,261, 1-21-69, Cl. 156-11.
Frantzen, John J., to Buckbee-Mears Company. Process for making printed circuits and the like by step-by-step etching. 3,455,751, 7-15-69, Cl. 156-3.
Frantzis, Nicholas. Electrolytic method of regenerating organic acid cleaning solution for ferrous metals. 3,425,920, 2-4-69, Cl. 204-145.
Franz, Dale W.: *See—*
Goerke, James R.; and Franz, Dale W.,3,459,062.
Franz, Frederick. Damage-resistant mechanical metronome. 3,486,323, 12-30-69, Cl. 58-130.
Franz, Hellmut: *See—*
Schuck, Manfred; and Franz, Hellmut,3,474,992.
Franz, John Edward, to Monsanto Company. Ozonolysis products of hexachlorodicyclopentadiene. 3,481,954, 12-2-69, Cl. 260-340.3
Franz, John E., to Monsanto Company. Dimer of 2,2,3,4,5,6-hexachlorocyclohexadienone. 3,444,207, 5-13-69, Cl. 260-586.
Franz, Ludwig: *See—*
Orth, Hans; Franz, Ludwig; and Divivier, Urban,3,460,497.
Franz Morat G.m.b.H.: *See—*
Schmidt, Richard, 3,426,550.
Schmidt, Richard, 3,456,187.
Franz, Norman J., to Procter & Gamble Company, The. Method of making sanitary napkins and the like. 3,445,897, 5-27-69, Cl. 19-144.
Franz, Norman J., to Procter & Gamble Company, The. Seal end carton. 3,455,496, 7-15-69, Cl. 229-37.
Franz, Norman J., to Procter & Gamble Company, The. Method of interposing a washing compound between superposed layers of nonwoven fibrous material and sealing said layers. 3,468,096, 9-23-69, Cl. 53-28.
Franz, Raymond A.: *See—*
Downs, Ronald O.; and Franz, Raymond A.,3,428,702.
Downs, Ronald O.; and Franz, Raymond A.,3,449,457.
Downs, Ronald O.; and Franz, Raymond A.,3,454,668.
Franz, Rudolph J., to Dole Valve Company, The. Vacuum regulator. 3,476,316, 11-4-69, Cl. 237-2.
Franz, William E.: *See—*
Sylvester, Kermit H.; Franz, William E.; and McGlathery, Robert M.,3,449,572.
Franzel, Harvey L.: *See—*
Wilson, Joseph G.; Franzel, Harvey L.; and Markway, Leroy H.,3,443,368.
Franzen, Gustav: *See—*
Nimtz, Klaus; and Franzen, Gustav,3,429,113.
Nimtz, Klaus; and Franzen, Gustav,3,478,504.
Nimtz, Klaus; Franzen, Gustav; and Heimes, Willi,3,461,660.
Franzen, Gustav, to Palitex Project-Company GmbH. Spindle bearing. 3,482,386, 12-9-69, Cl. 57-58.84
Franzen, Gustav; Lossa, Ulrich; and Heimes, Willi, to Palitex Project-Company G.m.b.H. Apparatus for stopping a brake-equipped spindle rotor in a predetermined position. 3,466,865, 9-16-69, Cl. 57-88.
Franzen, Karl August. Number lock. 3,482,421, 12-9-69, Cl. 70-74.
Franzen, Roland; and Sindermann, Paul, to Diehl. Hollow charge for land mines. 3,437,036, 4-8-69, Cl. 102-8.
Franzen, Wayne E.: *See—*
Kemeny, George A.; Franzen, Wayne E.; Maniero, Daniel A.; and Bruning, Armin M.,3,474,279.
Franzene, Robert Donald, to Kaufmann Tool and Engineering Corporation. Apparatus for applying and severing pressure sensitive tape. 3,454,452, 7-8-69, Cl. 156-518.
Franzus, Industries, Inc.: *See—*
Frank, Bernard, 3,470,719.
Frank, Bernard, 3,485,065.
Frasca, Arnold A. Hydraulic rotary power transfer mechanism. 3,461,992, 8-19-69, Cl. 192-60.
Frascati, Frank P., to Texaco Inc. Vacuum control system. 3,433,254, 3-18-69, Cl. 137-505.16
Fraser & Glass Limited: *See—*
Martin, Edward Rankine, 3,424,837.
Fraser, David Alexander; and Gowar, John, to M-O Valve Company Limted, The. Gas-filled electric discharge device with improved recovery. 3,458,758, 7-29-69, Cl. 315-102.
Fraser, David B.: *See—*
De La Cierva, Juan; Perlmutter, Adolf A.; and Fraser, David B.,3,427,504.
Fraser, Douglas A. Cutoff device. 3,481,223, 12-2-69, Cl. 74-851.
Fraser, Douglas S.: *See—*
Bender Charles E.; Fraser, Douglas S.; and Thompson, Taylor N.,3,463,342.
Fraser, Grover D., to Ingersoll-Rand Company. Unloading system for compressors. 3,448,916, 6-10-69, Cl. 230-24.
Fraser, Grover D., to Ingersoll-Rand Company. Compressor. 3,481,532, 12-2-69, Cl. 230-143.
Fraser, Hugh D.: *See—*
Knochel, William J.; and Fraser, Hugh D.,3,461,334.
Knochel, William J.; Lin, Francis C. M.; and Fraser, Hugh D.,3,422,300.
Fraser, James H., to Vonco Corporation, Inc. Coating composition and method. 3,458,327, 7-29-69, Cl. 106-14.
Fraser, James; and Harrison, Ian Robert, to Boots Pure Drug Company Limited. Method of protecting sheep from blowfly larvae. 3,478,153, 11-11-69, Cl. 424-300.
Fraser, John M.; and Long, Norwood G., to Bell Telephone Laboratories, Incorporated. Automatic load adjustment for time assignment speech interpolation systems. 3,466,398, 9-9-69, Cl. 179-15.
Fraser, John P.: *See—*
Scheuerman, Ronald F.; Scott, Paul R.; and Fraser, John P.,3,438,680.
Fraser, Joseph Wilfred, Jr.; and Atkinson, Roger Lee. Miles Laboratories, Inc. Test article. 3,453,180, 7-1-69, Cl. 195-99.
Fraser, Kenneth G.: *See—*
Stillwagon, George B., Jr., 3,447,232.
Fraser, R. Lee. Track means for wheeled vehicles. 3,467,310, 9-16-69, Cl. 238-4.
Fraser, Ralph. Table football game. 3,480,277, 11-25-69, Cl. 273-94.
Fraser, Reginald Percy: *See—*
Furman, George T.; and Fraser, Reginald Percy,3,425,407.
Fraser, Reginald Percy, to Societe Anonyme de Machines Electrostatiques. Pneumatic atomizer for spraying liquids. 3,421,693, 1-14-69, Cl. 239-15.
Fraser, Richard S.; and Jone, Paul Y., to Weyerhaeuser Company. Process of forming coated wood products. 3,476,585, 11-4-69, Cl. 117-71.
Fraser, Robert F., to Beatrice Foods Co., mesne. Humidifier utilizing superheated steam. 3,486,697, 12-30-69, Cl. 239-136.
Fraser, Robert William; Kushnir, Bud William; and Weizenbach, Bauke, to Sherritt Gordon Mines Limited. Method of producing dispersion strengthened nickel-chromium alloys. 3,454,431, 7-8-69, Cl. 148-11.5
Fraser, William J.: *See—*
Raymond, Albert E.; Fraser, William J.; and Swedish, Frank, Jr.,3,436,303.
Fraser, William T. Winding core. 3,447,674, 6-3-69, Cl. 206-59.

Frasier, Carlton R.: *See—*
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,444,525.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,487,373.
Broderick, William J.; Frasier, Carlton R.; Hittel, Lorenz A.; Hope, George R., Jr.; Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,483,520.

Frasier, Carlton R.; Hittel, Lorenz A.; Hudson, James R.; Rakoczi, Laszlo L.; Sansbury, David L.; and Wiener, Jerome B., to General Electric Company. Program request storage and control apparatus in a multiprogrammed data processing system. 3,483,521, 12-9-69, Cl. 340-172.5

Frasier, Jordan D., to International Rectifier Corporation. Implanted electrical device with biological power supply. 3,421,512, 1-14-69, Cl. 128-419.

Frassanito, John R.; Jorgensen, Hugh V.; and Brout, Robert Benedicte. Manually operated motor means. 3,443,664, 5-13-69, Cl. 185-15.

Frate, Roland: *See—*
Livingston, Malcolm R.; and Frate, Roland,3,422,510.

Fratelli Pallagrosi-S.N.C.: *See—*
Pallagrosi, Antonio; and Pallagrosi, Eugenio, 3,473,583.

Frater, Allen H., to Lewis, G. B., Company. Modular rack system. 3,486,634, 12-30-69, Cl. 211-133.

Frater, Allen H.; and Frater, George G., to Container Development Corporation. Stackable and nestable container. 3,420,402, 1-7-69, Cl. 220-97.

Frater, George G.: *See—*
Frater, Allen H.; and Frater, George G.,3,420,402.

Fratta, Italo, to Geigy Chemical Corporation. Methods of treating pain with NA-phthaloyl-α- amino acid amides. 3,452,141, 6-24-69, Cl. 424-274.

Frauchiger, Ulrich; and Becheiraz, Joseph, to Ciba Limited. Apparatus for treating a continuous web or film of material with a liquid. 3,457,898, 7-29-69, Cl. 118-419.

Frauendorf, Manfred. Pre-spotting unit for dry cleaning. 3,427,831, 2-18-69, Cl. 68-240.

Frauendorf, Manfred. Garment-treating machine for outer coats and jackets. 3,428,228, 2-18-69, Cl. 223-70.

Frauendorf, Manfred, to Normbau Maschinenfabrik GmbH & Co. Automatic trouser pressing machine. 3,480,188, 11-25-69, Cl. 223-73.

Frauenhoff, Richard E., to Caterpillar Tractor Company. Ladder assembly. 3,467,219, 9-16-69, Cl. 182-93.

Fraunfelder, James Alexander: *See—*
Dowling, Edward Camp; Carlisle, Raymond Melvin; and Fraunfelder, James Alexander,3,446,982.

Fray, Kingsley, to Avnet, Inc., mesne. Short antenna array with director mounted coaxially on dipole. 3,470,560, 9-30-69, Cl. 343-815.

Frayer, Theodore, to Goodyear Tire & Rubber Company, The. Proportional pressure valve. 3,443,594, 5-13-69, Cl. 137-625.64

Frayer, Theodore, to Goodyear Tire & Rubber Company, The. Brake pressure control valve. 3,486,801, 12-30-69, Cl. 303-21.

Fraysse, Georges: *See—*
Pelah, Israel; Fraysse, Georges; and Hage, Walter,3,423,586.

Frayssinoux, Roland Francois Edouard, to Compagnie des Compteurs. Freeze protection for a water meter. 3,440,879, 4-29-69, Cl. 73-277.

Frazao, Bartolomeu Capelo Da Foneca Franco, to Companhia Uniao Fabril, S.A.R.L. Automatic temperature compensation system for horizontal floater type liquid densimeters. 3,456,510, 7-22-69, Cl. 73-452.

Fraze, Ermal C.: *See—*
Brown, Omar L., 3,428,210.
Brown, Omar L., 3,445,028.
Brown, Omar L., 3,446,389.
Brown, Omar L.; and Peters, Don B., 3,454,185.
Brown, Omar L., 3,460,368.
Brown, Omar L., 3,479,733.
Brown, Omar L., 3,485,196.
Brown, Omar L., 3,485,411.
Fraze, Ermal C.; and Silver, Francis M., 3,432,068.
Fraze, Ermal C.; and Eickenhorst, Franklin C., 3,470,837.

Fraze, Ermal C. Container opening devices. 3,439,640, 4-22-69, Cl. 113-116.

Fraze, Ermal C. Method making an easy opening can end, 3,439,641, 4-22-69, Cl. 113-121.

Fraze, Ermal C. Can end with folded pull tab. 3,439,833, 4-22-69, Cl. 220-54.

Fraze, Ermal C. Easy-opening can end having vent means. 3,477,608, 11-11-69, Cl. 220-54.

Fraze, Ermal C.; and Eickenhorst, Franklin C., to Fraze, Ermal C., mesne. Apparatus for forming easy-open can ends. 3,470,837, 10-7-69, Cl. 113-1.

Fraze, Ermal C.; and Silver, Francis M., to Fraze, Ermal C., mesne. Easy open can end. 3,432,068, 3-11-69, Cl. 220-54.

Frazee, Charles D.; and Greeb, Henry R. Procter & Gamble Company, The Elimination of haloamines in sodium bromide brines and other bromide-containing solutions in bromine recovery systems. 3,442,614, 5-6-69, Cl. 23-216.

Frazee, Orville Phillip: *See—*
Jackson, Don M., Jr.; Frazee, Orville Phillip; and Waldow, Peter,3,454,434.

Frazer, August Henry, to Du Pont de Nemours, E. I., and Company. Phthalimidomethyl propiolactones. 3,422,116, 1-14-69, Cl. 260-326.

Frazer, August Henry; and Memger, Wesley, Jr., to Du Pont de Nemours, E. I., and Company. 1,3,4-Thiadiazole-1,3,4-oxadiazole polymers. 3,476,719, 11-4-69, Cl. 260-78.4

Frazer, Donald G., to Goodrich, B. F., Company, The. Easy processing nitrile elastomers. 3,487,057, 12-30-69, Cl. 260-80.7

Frazer, John F.; Holzman, Richard; Ide, Kenton J.; and Moore, Richard K., to Signatection Inc., mesne. Spectrum analysis apparatus. 3,441,850, 4-29-69, Cl. 324-77.

Frazer, John F.: *See—*
Ide, Kenton J.; and Frazer, John F.,3,441,860.

Frazer, John H.: *See—*
Proctor, Paul D.; and Frazer, John H.,3,445,082.

Frazier, Bruce J.: *See—*
Freeman, Norman L., Jr.; and Frazier, Bruce J.,3,480,331.

Frazier, Bruce J., to Halliburton Company. Hydraulically balanced plug valve. 3,430,919, 3-4-69, Cl. 251-283.

Frazier, Charles: *See—*
Ritson, Daniel Dickerson; Frazier, Charles; and Coscia, Anthony Thomas,3,438,794.

Frazier, Chester J., Jr.: *See—*
Pryor, John A.; Frazier, Chester J., Jr.; Smith, Lawrence L.; and Stanzione, John A.,3,438,442.

Frazier, David M. Energy controller. 3,448,691, 6-10-69, Cl. 103-271.

Frazier, Larry C., to National-Standard Company. Tire building drum and method of building pneumatic tires. 3,485,692, 12-23-69, Cl. 156-123.

Frazza, Everett Joseph: *See—*
Cabasso, Victor Jack; Stebbins, Max Raymond; and Frazza, Everett Joseph,3,455,782.

Frech, Gunther; Kaiser, Wolfgang; and Rahn, Herbert, to International Standard Electric Corporation. Method for control supervision and protection of vehicles. 3,440,600, 4-22-69, Cl. 340-23.

Frech, Kenneth J., to Goodyear Tire & Rubber Company, The. Promotion of olefin cracking. 3,480,687, 11-25-69, Cl. 260-680.

Frech, Kenneth J.; and Anhorn, Victor J., to Goodyear Tire & Rubber Company, The. Preparation of isoprene. 3,480,688, 11-25-69, Cl. 260-680.

Frechet, Pierre Joseph: *See—*
Bichet, Georges; Cruiziat, Paul; Damay, Jean; and Frechet, Pierre Joseph,3,456,428.

Frechette, Marius: *See—*
Drake, Edwin George; and Frechette, Marius,3,437,073.

Freda, John C. Circumcision instrument. 3,473,533, 10-21-69, Cl. 128-305.

Fredd, John V., to Otis Engineering Corporation. Well tools. 3,428,346, 2-18-69, Cl. 287-111.

Fredd, John V., to Otis Engineering Corporation. Well cross-over apparatus and tools and method of operating a well installation. 3,441,084, 4-29-69, Cl. 166-250.

Fredd, John V., to Otis Engineering Corporation. Operator devices. 3,444,783, 5-20-69, Cl. 91-41.

Fredd, John V., to Otis Engineering Corporation. Valves. 3,454,029, 7-8-69, Cl. 137-112.

Fredell, Gary D., to Bliss, E. W., Company. Rotary drive stepper. 3,422,941, 1-21-69, Cl. 192-12.

Fredenburg, Donald A., to Raytheon Company. Sonar transducer cage. 3,471,828, 10-7-69, Cl. 340-8.

Frederick, Arthur I.: *See—*
Pandjiris, Anthony K.; and Frederick, Arthur I.,3,430,944.
Pandjiris, Anthony K.; and Frederick, Arthur I.,3,448,877.
Pandjiris, Anthony K.; and Frederick, Arthur I.,3,480,158.

Frederick, Edward R., to Albany Felt Company. Method and means for triboelectric evaluation of a fabric. 3,487,296, 12-30-69, Cl. 324-32.

Frederick, Eugene O., to Iowa Plastics Engineering, Inc. Panel unit and frame. 3,455,079, 7-15-69, Cl. 52-473.

Frederick, Ezra F. Ladder jacks. 3,459,277, 8-5-69, Cl. 182-214.

Frederick, Harold M., to Burroughs Corporation. Actuator mechanism. 3,443,444, 5-13-69, Cl. 74-54.

Frederick, Henry E.: *See—*
Zebarth, Ralph S.; and Frederick, Henry E.,3,422,490.
Zebarth, Ralph S.; and Frederick, Henry E.,3,471,893.
Zebarth, Ralph S.; and Frederick, Henry E.,3,477,093.

Frederick, James E.: *See—*
Adamson, Floyd E.; and Frederick, James E.,3,459,996.

Frederick, L. Day: *See—*
Schwartz, Arthur; and Frederick, L. Day,3,463,146.

Frederick, Phyllis: *See—*
Ryan, John W.; Frederick, Phyllis; Golden, Michael E.; and Zimmerman, Charles R.,3,456,944.

Frederick, Purdue, Company, The: *See—*
Sasmor, Ernest J., 3,479,432.
Frederick, Robert E., to Link Engineering Company. Stator coil lacing machine having a disconnectable Geneva drive. 3,440,979, 4-29-69, Cl. 112-2.
Frederick, Sinclair A.: *See—*
McRae, Daniel D.; Glover, Edward B.; Williamson, Leon B.; and Frederick, Sinclair A.,3,426,327.
Fredericks, Robert H., to Ford Motor Company. Motor vehicle safety belt apparatus. 3,462,192, 8-19-69, Cl. 297-389.
Frederickson, Albert J. Contraction joint for pavements. 3,426,658, 2-11-69, Cl. 94-18.
Frederickson, Lyle R.; Rovelsky, Leon A.; and Wood, Robert L., to North American Rockwell Corporation. Resonant frequency measurement apparatus having a gated frequency indicating means. 3,432,752, 3-11-69, Cl. 324-57.
Frederiksen, Ove Steen. Machine for bending tubes or rods. 3,452,581, 7-1-69, Cl. 72-388.
Frederiksen, Thomas R.; and Radtke, Warren K., to Bethlehem Steel Corporation. Shaft furnace discharge control. 3,429,462, 2-25-69, Cl. 214-18.2
Fredholm, Gunnar Ivar: *See—*
Hallstrom, Olof Henrik; and Fredholm, Gunnar Ivar,3,482,931.
Fredkin, Edward, to Information International Inc. High-speed film reader/recorder with grid reference. 3,460,099, 8-5-69, Cl. 340-173.
Fredon, Pierre Andre Gaston. Heel protector. 3,439,435, 4-22-69, Cl. 36-72.
Fredrick, Raymond E., Jr.: *See—*
Sontheimer, Carl G.; and Fredrick, Raymond E., Jr.,3,426,298.
Fredrickson, John B.: *See—*
O'Connor, Thomas L.; Fredrickson, John B.; and Rosenberg, Norman W.,3,475,143.
Fredrickson, John H.; Hunger, Gunther K.; and Kohne, Harry F., Jr., to Westvaco Corporation. Hot roll supercalender. 3,451,331, 6-24-69, Cl. 100-93.
Fredrickson, Robert E.: *See—*
Booker, James L.; and Fredrickson, Robert E.,3,420,619.
Fredrickson, Robert E.; and Erhard, Albert E., to Dow Chemical Company, The. Recovery of copper values from copper-containing ores. 3,441,403, 4-29-69, Cl. 75-74.
Fredriksen, Thorbjoern R., to International Business Machines Corporation. Closed loop stepping motor control system. 3,463,985, 8-26-69, Cl. 318-138.
Fredriksen, Thorbjoern R., to International Business Machines Corporation. Hybrid closed loop stepping motor control system including acceleration and deceleration control. 3,476,996, 11-4-69, Cl. 318-138.
Fredriksen, Thorbjoern R., to International Business Machines Corporation. Time optimal servo control system. 3,482,155, 12-2-69, Cl. 318-18.
Fredriksson, Oke A.; Fossati, F. Nicholas; and Roberts, F. Alexander. Helical antenna for irradiating an earth formation penetrated by a borehole and method of using same. 3,449,657, 6-10-69, Cl. 324-6.
Fredriksson, Per Sven Engelbrekt. Method and apparatus for anchoring one end of continuously advancing material. 3,472,461, 10-14-69, Cl. 242-25.
Fredriksson, Per Sven Engelbrekt; and Granstrom, Olof Alvar, to AB Svenska Metallverken. Method for continuously rolling wire billets into wire or rodlike material. 3,451,123, 6-24-69, Cl. 29-475.
Free, David: *See—*
Smith, William C.; and Free, David,3,478,707.
Free-Flow Packaging Corporation: *See—*
Graham, Arthur; and Stanley, Lorne R., 3,481,455.
Freebairn, Hugh T.: *See—*
Tant, Carl O.; Bennett, Edward O.; and Freebairn, Hugh T.,3,444,301.
Freeborg, Robert M., to Bechtel International Corporation, mesne. Bridge mounted structure for hot cells. 3,445,012, 5-20-69, Cl. 214-18.
Freeborn, John C., to United States of America, mesne. Spiral sweep phase shift compensation. 3,431,459, 3-4-69, Cl. 315-24.
Freeby, Le Roy W.; and Jackson, Wilbur F., to Robertshaw Controls Company. Dual seating valve. 3,486,732, 12-30-69, Cl. 251-75.
Freed A., Novelty, Inc.: *See—*
Convertine, Frank, 3,425,689.
Freed, Arnold; and Covertine, Frank. Battery operated vibrating dispenser. 3,435,994, 4-1-69, Cl. 222-196.
Freed, Joseph A. Eyeglass frame with adjustable rear view mirrors. 3,423,150, 1-21-69, Cl. 351-50.
Freed, Joseph A. Vehicle tubes and tires. 3,464,475, 9-2-69, Cl. 152-167.
Freed, Meier E.: *See—*
Archibald, John L.; and Freed, Meier E.,3,458,515.
Archibald, John L.; and Freed, Meier E.,3,471,499.
Freed, Meier E; and Archibald, John L., to American Home Products Corporation. Bis(pyridylethyl)- and bis (piperidylethyl)-indoles. 3,462,441, 8-19-69, Cl. 260-293.
Freed, Meier E.; and Archibald, John Leheup, to American Home Products Corporation. Indoleglyoxyloylpyrroles. 3,459,770, 8-5-69, Cl. 260-326.15
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., to Dayco Corporation. Mower blade. 3,425,199, 2-4-69, Cl. 56-295.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., to Dayco Corporation. Reinforced mower blade. 3,425,200, 2-4-69, Cl. 56-295.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., to Dayco Corporation. Mower blade with mounting plate. 3,440,808, 4-29-69, Cl. 56-295.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., to Dayco Corporation. Offset mower blade. 3,485,022, 12-23-69, Cl. 56-295.
Freedman, Arye Leib: *See—*
Gwillim, David Thomas; and Freedman, Arye Leib,3,487,389.
Freedman, Bernard J.; Georgetti, Richard A.; and Tedeschi, William R., to General Dynamics Corporation. Process for descaling steel strip in an aqueous organic chelating bath using alternating current. 3,420,760, 1-7-69, Cl. 204-145.
Freedman, David, to New Brunswick Scientific Co., Inc. Fermentation apparatus. 3,445,342, 5-20-69, Cl. 195-142.
Freedman, David; and Liobis, Vytautas A., to New Brunswick Scientific Co., Inc. Counterweight system for shaker apparatus. 3,430,926, 3-4-69, Cl. 259-54.
Freedman, David; and Liobis, Vytautas A., to New Brunswick Scientific Co., Inc. Fermentation apparatus with sterilization capabilities. 3,445,341, 5-20-69, Cl. 195-139.
Freedman, Harold J., to De Luxe Laboratories, Inc. Methods and devices for handling and applying of thin film materials. 3,434,898, 3-25-69, Cl. 156-157.
Freedman, Harold T.; and Schlussler, Henry, to United States of America, Army. Interlaced pulse train analyzer. 3,431,500, 3-4-69, Cl. 328-110.
Freedman, Hyman. Filling means for dental spray bottles. 3,430,669, 3-4-69, Cl. 141-353.
Freedman, Hyman. Dental floss container and dispenser. 3,480,190, 11-25-69, Cl. 225-33.
Freedman, Jerome D.; and Rado, Julius, to Ford Motor Company. Automatically retractable coat hook. 3,424,418, 1-28-69, Cl. 248-216.
Freedman, Myron L., to Comprehensive Service Corporation. Split reel. 3,432,113, 3-11-69, Cl. 242-71.8
Freedman, Nathan, to United States of America, Air Force. Retrodirective phase shifting transponder. 3,480,951, 11-25-69, Cl. 343-6.8
Freedman, Nathan, to United States of America, Air Force. Radar beacon system with transponder for producing amplified, phase shifted retrodirected signals. 3,480,952, 11-25-69, Cl. 343-6.8
Freedman, Robert P.; and Fetner, Martin J., to General Dynamics Corporation. Apparatus for the measurement of levels of high temperature materials. 3,456,715, 7-22-69, Cl. 164-155.
Freedman, Robert P.; and Ketcham, George M., to General Dynamics Corporation. Rolling mill taper control system. 3,436,943, 4-8-69, Cl. 72-8.
Freehauf, Eugene G.: *See—*
Dugan, William P.; and Freehauf, Eugene G.,3,429,037.
Dugan, William P.; and Freehauf, Eugene G.,3,429,038.
Freehauf, Eugene G., to General Dynamics Corporation. Pressure indicating probe. 3,421,369, 1-14-69, Cl. 73-141.
Freehauf, Eugene G.; and Dugan, William P., to General Dynamics Corporation. Method of manufacturing electrical connectors. 3,429,036, 2-25-69, Cl. 29-625.
Freehauf, Eugene G.; and Dugan, William P., to General Dynamics Corporation. Method of manufacturing electrical connectors. 3,431,641, 3-11-69, Cl. 29-625.
Pratt, Wilson N.; and Freehauf, Eugene G.,3,420,085.
Freeland, Royden R., to International Crystal Manufacturing Co., Inc. Temperature compensated and trim controlled crystal oscillator circuit. 3,421,110, 1-7-69, Cl. 331-116.
Freeland, William: *See—*
Bradbury, Cyril Henry; and Freeland, William,3,447,523.
Freelander, Abraham L.; Matthews, Robert E.; and Garrett Wayne C., to Dayco Corporation. Blade for mowing. 3,444,675, 5-20-69, Cl. 56-295.
Freeman, Alfred B. Ensemble effects systems. 3,429,978, 2-25-69, Cl. 84-1.24
Freeman, Arthur H.; and Forman, Hugh M., to General Electric Company. Single field coil motor stator and method of making the same. 3,443,136, 5-6-69, Cl. 310-194.
Freeman, Arthur W.: *See—*
Churchill, Alan W.; and Freeman, Arthur W.,3,463,444.
Churchill, Alan W.; and Freeman, Arthur W.,3,463,445.
Freeman, Carl R. Building construction. 3,431,692, 3-11-69, Cl. 52-467.
Freeman, Charles R.; and Sauer, Charlotte I., to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesive tape. 3,451,537, 6-24-69, Cl. 206-59.

Freeman, Charles R.: *See—*
Snell, Robert B.; and Freeman, Charles R.,3,470,127.
Freeman Chemical Corporation: *See—*
Kwan, Fred K. C.; Ross, Richard C.; and Svoboda, Glenn R., 3,432,458.
Schafer, Kenneth A., 3,428,518.
Freeman, Claude C., to Container Corporation of America. Collapsible display carton. 3,437,193, 4-8-69, Cl. 206-45.14
Freeman, Claude L.: *See—*
Freeman, Gertrude T.; and Freeman, Claude L.,3,421,505.
Freeman Corporation: *See—*
Freeman, Horace, 3,471,283.
Freeman, Dennis B. Electrodeposition process with pretreatment in zinc phosphate solution containing fluoride. 3,454,483, 7-8-69, Cl. 204-181.
Freeman, Dennis B.; and Burden, Peter, to Hooker Chemical Corporation. Metal coating process. 3,449,222, 6-10-69, Cl. 204-38.
Freeman, Dennis B.; and Burden, Peter, to Hooker Chemical Corporation. Electrophoretic deposition on zinc enriched metal surface. 3,449,229, 6-10-69, Cl. 204-181.
Freeman, Dennis Brian; and Gill, Colm Anthony, to Hooker Chemical Corporation. Metal surface coating methods. 3,459,604, 8-5-69, Cl. 148-6.24
Freeman, Don G.: *See—*
Keeler, Robert E.; Freeman, Don G.; and Van Blerkom, Richard,3,473,132.
Freeman, Donald C., Jr., to Union Carbide Corporation. Superconducting magnets. 3,440,585, 4-22-69, Cl. 335-216.
Freeman, Einson, and De Troy Corporation: *See—*
Leigh, Jonathan W., 3,469,335.
Freeman, Forrest F. Pressure sensing device. 3,476,899, 11-4-69, Cl. 200-84.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Electrically operated fluid flow control devices. 3,446,472, 5-27-69, Cl. 251-65.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Electrically operated fluid flow control devices. 3,457,939, 7-29-69, Cl. 137-83.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Electro-magnetic fluid flow control devices. 3,485,270, 12-23-69, Cl. 137-625.48
Freeman, Frederick; and King, Peter, to Rolls-Royce Limited. Coupling. 3,469,868, 9-30-69, Cl. 287-52.
Freeman, Gertrude T.; and Freeman, Claude L. Colostomy garment. 3,421,505, 1-14-69, Cl. 128-283.
Freeman, Habern W., 50% to Maslan, Michael M. Exerciser device. 3,421,760, 1-14-69, Cl. 272-83.
Freeman, Harlan G.: *See—*
Kreibich, Roland E.; Freeman, Harlan G.; and Baxter, Gene F.,3,422,068.
Freeman, Horace, to Freeman Corporation. Reduction of iron ore. 3,471,283, 10-7-69, Cl. 75-40.
Freeman, Jere E., to Corn Products Company. Sorghum grain degermination process. 3,477,855, 11-11-69, Cl. 99-80.
Freeman, Jeremiah P., to Rohm & Haas Company. Poly(difluoramino)alkanes. 3,446,847, 5-27-69, Cl. 260-583.
Freeman, Kenneth George: *See—*
Jackson, Richard Norman; and Freeman, Kenneth George,3,456,071.
Freeman, Lawrence M.: *See—*
Hendricks, William W.; and Freeman, Lawrence M.,3,472,408.
Freeman, Leston M., Jr.: *See—*
Sevetz, Edward B.; and Freeman, Leston M., Jr.,3,443,791.
Freeman, Louis G., Company, The: *See—*
Berning, Melvin J., 3,459,014.
Freeman, Mark Phillips, to American Cyanamid Company. Synthesis of finely divided oxide powders. 3,449,072, 6-10-69, Cl. 23-142.
Freeman, Mark Phillips; and Halverson, Frederick, to American Cyanamid Company. Process for recording and retrieving information employing photoluminescent inks which luminesce under ultraviolet illumination. 3,473,027, 10-14-69, Cl. 250-71.
Freeman, Norman D.: *See—*
Manz, August F.; Saenger, John F., Jr.; Freeman, Norman D.; and Stanchus, Frank T.,3,483,354.
Freeman, Norman L., Jr.; and Frazier, Bruce J., to Halliburton Company. Fluidizing conveyor apparatus. 3,480,331, 11-25-69, Cl. 302-29.
Freeman, Percy F. Baler for cotton motes and other materials. 3,479,950, 11-25-69, Cl. 100-49.
Freeman, Peter A., to Martin-Marietta Corporation. Pill-type fluidic devices. 3,422,259, 1-14-69, Cl. 235-201.
Freeman, Peter A., to Martin-Marietta Corporation. Fluidic device using pills of different sizes. 3,466,002, 9-9-69, Cl. 251-28.
Freeman, Peter D.: *See—*
Roulund, Poul B.; and Freeman, Peter D.,3,437,279.
Freeman, Richard B., to Scovill Manufacturing Company. Pneumatic tool. 3,430,539, 3-4-69, Cl. 91-411.
Freeman, Richard B., to Scovill Manufacturing Company. Blind rivert tool. 3,457,763, 7-29-69, Cl. 72-391.
Freeman, Richard B. Bolt cutting device. 3,465,932, 9-9-69, Cl. 225-2.
Freeman, Robin John, to Vision Engineering Limited. Optical comparison systems. 3,481,673, 12-2-69, Cl. 356-168.
Freeman, Stanley B., to General Instrument Corporation. Frequency-stabilized low frequency oscillator. 3,469,210, 9-23-69, Cl. 331-113.
Freeman, Stanley K., to International Flavors & Fragrances, Inc. Repelling animals with ketone. 3,474,176, 10-21-69, Cl. 424-331.
Freeman Supply Company, The: *See—*
Rusk, Gerald R.; and Wical, Marshal W., 3,468,364.
Freen, A., Limited: *See—*
Bratkowski, Yaroslau R., 3,463,569.
Freeport Sulphur Company: *See—*
Morris, Horton H.; and Olivier, James P., 3,439,801.
Olivier, James P., 3,432,030.
Olivier, James Peter; and Hickin, George K,, 3,449,567.
Olsen, Edward W., 3,474,911.
Sennett, Paul; and Olivier, James P., 3,446,348.
Sennett, Paul S.; Turner, Kenneth Lamar; and Morris, Horton Harold, 3,476,576.
Wiewiorowski, Tadeusz K., 3,447,903.
Freer, Arthur Wilfred, to Clarks Limited. Method of joining the edges of a shoe outer. 3,427,673, 2-18-69, Cl. 12-146.
Freer, Walter, to General Instrument Corporation. Multi-compartment tuner construction facilitating electromagnetic high-frequency coupling and minimizing electrostatic low-frequency coupling. 3,479,622, 11-18-69, Cl. 334-85.
Frees, Richard S.: *See—*
Busha, George F.; and Frees, Richard S.,3,456,828.
Freese, Charles E.; and Emery, Robert D., to Smith, A. O., Corporation. Predetermining counter apparatus for flow control systems and the like. 3,453,420, 7-1-69, Cl. 235-132.
Freese, Evans Glenn, to Cessna Aircraft Company, The. Weld joint. 3,458,224, 7-29-69, Cl. 287-189.36
Freese, Evelyn: *See—*
Egart, George M.; and Freese, Walter,3,458,772.
Freese, Robert W., Jr., to Sylvania Electric Products, Inc. Infrared incandescent lamp. 3,443,144, 5-6-69, Cl. 313-315.
Freese, Thomas E., to Allied Chemical Corporation. Corn silage process. 3,457,081, 7-22-69, Cl. 99-8.
Freese, Walter: *See—*
Egart, George M.; and Freese, Walter,3,458,772.
Freez-Porter Systems, Inc.: *See—*
Tetrick, Harlan M.; and Reed, Charles E., 3,468,369.
Fregeau, Ulrich J. Insecticidal washing composition. 3,466,246, 9-9-69, Cl. 252-106.
Frehn, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of heat-treating workpieces. 3,421,950, 1-14-69, Cl. 148-13.1
Frehn, Fritz, to Deutsche Edwlstahlwerke Aktiengesellschaft. Sintered carbide hard alloy. 3,450,511, 6-17-69, Cl. 29-182.8
Frehner, Hans: *See—*
Basler, Ernst; and Frehner, Hans,3,464,374.
Frehner, Leon. Curvilinear terrace construction and planter blocks and methods therefor. 3,444,694, 5-20-69, Cl. 61-35.
Freholm, Omar E.: *See—*
Dean, Albert G.; and Freholm, Omar E.,3,486,464.
Freholm, Omar E., to Budd Company, The. Disk brake apparatus. 3,434,570, 3-25-69, Cl. 188-59.
Frei, Hans, to Sulzer Brothers Limited. Method and apparatus for detecting a leak in a heat exchanger. 3,425,264, 2-4-69, Cl. 73-40.5
Frei, Hermann: *See—*
Ackermann, Hans; Frei, Hermann; and Meindl, Hubert,3,433,781.
Frei, Karl: *See—*
Heinz, Harro K.; and Frei, Karl,3,431,503.
Freiberg, Ashley H., to Stauffer Chemical Company. Tributyltin molluscicides. 3,439,098, 4-15-69, Cl. 424-288.
Freiberg, Ashley H.: *See—*
Szabo, Karoly; and Freiberg, Ashley H.,3,479,437.
Freiberg, Leslie A., to Abbott Laboratories. Nor-androstene steroid derivatives. 3,478,083, 11-11-69, Cl. 260-468.5
Freiberger, Ronald D., to General Motors Corporation. Automotive comfort control system with vacuum hold. 3,433,130, 3-18-69, Cl. 91-447.
Freibergs, Elmer: *See—*
Agrios, John P.; and Freibergs, Elmer,3,435,382.
Freibsberg, Karl-Otto: *See—*
Kramer, Josef; Irmscher, Klaus; Halpaap, Herbert; and Freibsberg, Karl-Otto,3,433,805.
Freid, Wilbert Bernard; Duffy, Robert Joseph; and Sargisson, Donald Farley, to General Electric Company. Separator. 3,465,950, 9-9-69, Cl. 230-132.
Freiday, Jay H., to Combustion Engineering, Inc. Chemical recovery unit. 3,477,823, 11-11-69, Cl. 23-277.
Freiday, Jay H.: *See—*
Hochmuth, Frank W.; and Freiday, Jay H.,3,434,531.

Freidmann, Eric Helmuth; Trembath, Timothy Richard; Cancrinus, Hendrik; and Fourie, Philip John, to Inpower Works (Proprietary) Limited. Fluid torque transmitter. 3,425,298, 2-4-69, Cl. 74-752.
Freier, Gerald H., to V-M Corporation. Record changer spindle. 3,442,514, 5-6-69, Cl. 274-10.
Freier, Gerald H.: *See—*
Rankin, John A.; and Freier, Gerald H.,3,452,993.
Freifeld, Milton, to GAF Corporation. Halogen adducts of alkylated polymers of heterocyclic N-vinyl monomers. 3,437,647, 4-8-69, Cl. 260-88.8
Freifeld, Milton; Mills, George S.; and Nelson, Richard J., to GAF Corporation. Polyurethane elastomers containing an interpolymer or an α,β-unsaturated dicarboxylic acid anhydride and an ethylenically unsaturated monomer. 3,426,099, 2-4-69, Cl. 260-859.
Freifelder, Morris, to Abbott Laboratories. β-Hydroxylaminobenzoylaminoacetonitriles and preparation thereof. 3,455,987, 7-15-69, Cl. 260-465.
Freightliner Corporation: *See—*
Evens, Robert L.; Lewis, Douglass H.; and Chew, Norman Bradford, 3,436,900.
Freihofer, Alexis, to Ruti Machinery Works Ltd. Arrangement for transferring yarn on a weaving loom. 3,430,666, 3-4-69, Cl. 139-125.
Freihofer, Alexis, to Ruti Machinery Works Ltd., formerly Casper Honegger. Weaving shuttle. 3,434,507, 3-25-69, Cl. 139-125.
Freiling, Jerome G.: *See—*
Newman, Julian; Caspers, John; Gambro, John; and Freiling, Jerome G.,3,487,006.
Freilino, Ray S.: *See—*
Mausteller, John W.; Billetdeaux, Adrian C.; and Freilino, Ray S.,3,471,698.
Freiman, Charles V.: *See—*
Barrekette, Euval S.; Freiman, Charles V.; Gazis, Denos C.; and Lovell, John E.,3,453,595.
Freiman, David J., to Corning Glass Works. Packaging and display assembly. 3,467,252, 9-16-69, Cl. 206-65.
Freiman, Freddy Herman. Means for automatically controlling the tension of a continuously advancing element. 3,486,713, 12-30-69, Cl. 242-155.
Freisberg, Karl-Otto: *See—*
Kramer, Josef; Freisberg, Karl-Otto; and Halpaap, Herbert,3,462,455.
Kramer, Josef; Halpaap, Herbert; and Freisberg, Karl-Otto,3,484,448.
Freise, William G.; and Przybyszewski, Benjamin M., to Paymax Syrup Corporation. Beverage dispensing device. 3,421,430, 1-14-69, Cl. 99-289.
Freitag, Glenn W., to General Motors Corporation. Engine overspeed control. 3,433,209, 3-18-69, Cl. 123-198.
Freitag, Herbert: *See—*
Dorner, Nikolaus; Freitag, Herbert; Sautter, Hans-Dieter; Schafer, Willi; and Doetsch, Hans-Peter,3,447,645.
Freitag, Paul W., Jr.: *See—*
Kraft, Louis Seelbach; and Freitag, Paul W., Jr.,3,422,947.
Freitag, Walter O.: *See—*
Baker, Evelyn B.; and Freitag, Walter O.,3,444,015.
Freitas, Ernest Robert: *See—*
Gable, Charles M.; Duncan, Edward A., Jr.; and Freitas, Ernest Robert,3,475,318.
Freitas, Ernest R.; Dunn, Clarence L.; and Zarker, Keith E., to Shell Oil Company. Method of separating acidic gases from gaseous mixture. 3,463,603, 8-26-69, Cl. 23-2.
Freldlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., to Dayco Corporation. Multiple edge mower blade. 3,449,894, 6-17-69, Cl. 56-295.
Fremont, Robert D., to Colt's Inc. Firearm box magazine with straight end and intermediate arcuate portions. 3,440,751, 4-29-69, Cl. 42-50.
Fremont, Robert D., to Colt's Inc. Disposable magazine having a protective cover and follower retaining means. 3,453,762, 7-8-69, Cl. 42-50.
Fremont, Robert S., to McGraw-Edison Company, mesne. Signs. 3,478,455, 11-18-69, Cl. 40-132.
Fremstad, Viles K.: *See—*
Arias, Henry, Jr.; and Fremstad, Viles K.,3,423,786.
French Beauty Inc., The: *See—*
Brunet, Louise, 3,485,251.
French, Burton W.: *See—*
Dyer, Norman D.; and French, Burton W.,3,483,933.
French, Charlie N.: *See—*
Abbott, Malcolm K.; and French, Charlie N.,3,452,646.
Julow, Thomas M.; and French, Charlie N.,3,434,388.
French, Donald M., to United States of America, Navy. Digital marker generator for cathode ray tube. 3,462,639, 8-19-69, Cl. 315-19.
French, Elby Edward, to O.K. Tire and Rubber Co., Inc. Adjustable bolt circle wheel. 3,428,365, 2-18-69, Cl. 301-9.
French, Elby Edward, to O.K. Tire and Rubber Co., Inc. Pneumatic tire run-in machine. 3,464,264, 9-2-69, Cl. 73-146.
French, Fred W., to Valley Metallurgical Processing Company, mesne. Method of reforming tubular metal blanks into inner-fin tubes. 3,422,518, 1-21-69, Cl. 29-157.3
French, Harry F.Cleveland Trust Company): *See—*
Cleveland, Clark C.; French, Harry F.; and Pattin, Howard S.,3,432,359.
French, Heyward A., to International Telephone and Telegraph Corporation. Diversity receiving system with a voltage controlled oscillator coupled to a crystal controlled oscilla- tor in at least one channel. 3,444,471, 5-13-69, Cl. 325-304.
French, Howard V. Water jet propulsion means. 3,447,324, 6-3-69, Cl. 60-221.
French, Howard W.; and McDaniel, Gordon M., to Allis-Chalmers Manufacturing Company. Pickup header. 3,446,347, 5-27-69, Cl. 209-3.
French, Jack W.; Lewanski, Richard M.; and Modry, Richard E., to Sommer & Maca Glass Machinery Company. Form cleaner assembly. 3,456,277, 7-22-69, Cl. 15-77.
French, Jack W.; and Miller, Steven, to Sommer & Maca Glass Machinery Company. Glass washing apparatus. 3,449,781, 6-17-69, Cl. 15-77.
French, James R., Jr., to United States of America, Air Force. Process for the disposal of contaminated liquid fluorine. 3,466,885, 9-16-69, Cl. 62-48.
French, Kendric R. Ship propulsion system. 3,463,115, 8-26-69, Cl. 115-35.
French, Larry J., to Radio Corporation of America. Electro-optical memory. 3,440,620, 4-22-69, Cl. 340-173.
French, Lionel J. B. R. Bookbinding machinery. 3,466,682, 9-16-69, Cl. 11-1.
French, Marcus: *See—*
Buff, Fred; French, Marcus; and Pollock, Warren,3,476,845.
French, Park, to TRW Inc. Dynamoelectric machine having corresponding ferromagnetic coils on alternating rotor and stator disks. 3,436,571, 4-1-69, Cl. 310-46.
French, Raymond J., to General Electric Company. Treating agent dispenser for automatic washing machine. 3,426,944, 2-11-69, Cl. 222-129.
French, Robert E., to Atlas-Rand Corporation, mesne. Camera exposure control arrangements. 3,436,147, 4-1-69, Cl. 352-141.
French, Roger F., to Servodyne Corporation. Klystron tube having feedback means and a control lens. 3,458,750, 7-29-69, Cl. 315-5.44
French State: *See—*
Grange, Bernard; Long, Charles-Jean; Jugue, Bernard; and Mallet, Roger, 3,446,176.
French State, represented by the Delegation for Munitions, Technical Direction of Land Munitions: *See—*
Galaup, Henri, 3,424,410.
French, Tom, to Dunlop Company Limited, The. Pneumatic tire tread. 3,482,616, 12-9-69, Cl. 152-209.
French, Walter K., to International Business Machines Corporation. Apparatus wherein a pulsed light beam is interrupted having a high pass filter so that the photocell is responsive only to the leading edge of the light pulse. 3,423,596, 1-21-69, Cl. 250-222.
French, Walter K., to International Business Machines Corporation. Voice verification system. 3,466,394, 9-9-69, Cl. 179-1.
French, Walter K., to International Business Machines Corporation. Apparatus for taking fingerprints. 3,479,987, 11-25-69, Cl. 118-31.5
French, Walter K.; and Taylor, Richard, 20% each to Jaffin, George M., and Basseches, Mark T. Credit card carrier. 3,444,914, 5-20-69, Cl. 150-39.
Frenger, Friedrich, to Vickers-Zimmer Aktiengesellschaft, Planung und Bau von Industrieanlagen. Braking device for thread-form material. 3,423,045, 1-21-69, Cl. 242-154.
Frenk, Helmuth, to Leitz, Ernst, G.m.b.H. Method and apparatus for tracing a track. 3,450,934, 6-17-69, Cl. 315-10.
Frenk, Helmut, to Leitz, Ernst, G.m.b.H. Arrangement for digital indication. 3,466,130, 9-9-69, Cl. 356-167.
Frenkel, Francis, to American Liquid Instruments, Inc. Sampling liquid level measuring device. 3,442,017, 5-6-69, Cl. 33-126.4
Frensch, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Fungicidal compositions containing copper bis- dimethyl acrylate. 3,426,132, 2-4-69, Cl. 424-294.
Frensch, Heinz; Goebel, Helmut; and Hartel, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Seed protectant compositions containing mixtures of 3,3,4,4-tetrachlorotetrahydrothiophene with other fungicides. 3,461,209, 8-12-69, Cl. 424-274.
Frentzen, Paul T.: *See—*
Mathews, Bentley B.; and Frentzen, Paul T.,3,450,260.
Mathews, Bentley B.; and Frentzen, Paul T.,3,469,674.
Frenyo, Pal; and Klottschen, Heinz, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Mining machine and method. 3,477,762, 11-11-69, Cl. 299-10.
Frenzel, Bertram, to VEB Nahwerkmaschinenbau Malimo Karl-Marx-Stadt. Device for driving the yarn layer of a textile machine. 3,440,840, 4-29-69, Cl. 66-84.

Frequency Control Corporation: *See*—
George, James, 3,433,944.
Fresard, Marcel, to Mefina S.A. Sewing machine. 3,440,986, 4-29-69, Cl. 112-258.
Fresard, Marcel; and Baruffa, Olindo, to Mefina S.A. Sewing machine. 3,435,788, 4-1-69, Cl. 112-158.
Fresard, Marcel: *See*—
Moret, Michel A.; Fresard, Marcel; and Lagier, Jean-Claude,3,471,725.
Fresch, Eugene E.; Nakrin, Jerome; and Pillifant, Thomas G. Metal working process. 3,469,433, 9-30-69, Cl. 72-364.
Frescura, Gino: *See*—
Pluznik, Wolf; and Frescura, Gino,3,473,869.
Freshwater, Donley D.; and Jenness, Raymond C., to Allis-Chalmers Manufacturing Company. Lubrication apparatus for journal bearing assemblies and combination of such lubrication apparatus with journal bearing assemblies. 3,429,624, 2-25-69, Cl. 308-84.
Freson, James L. : *See*—
Hodgson, Robert W.; and Freson, James L. ,3,442,347.
Freson, Mae: *See*—
Hodgson, Robert W.; and Freson, James L. ,3,442,347.
Fresu, Michelino. Hollow sealed stopper with interior storage space. 3,439,826, 4-22-69, Cl. 215-48.
Fretz, Harold Robert: *See*—
Hazard, Sherrill J., Jr.; and Fretz, Harold Robert,3,455,780.
Ziegenhagen, Paul D.; Fretz, Harold R.; Langlois, Arthur C.; and Damrau, Wayne A.,3,466,925.
Freudenberg, Carl: *See*—
Boe, Hans; Petersik, Peter; and Buchsenstein, Wilhelm, 3,471,315.
Fahrbach, Erich, 3,462,305.
Park, Im Keun, 3,485,799.
Pohland, Alois, 3,474,502.
Schabert, Robert; and Fischer, Helmut, 3,450,809.
Schmitt, Wilhelm, 3,447,361.
Freudenberg, Carl, K.G.: *See*—
Krug, Hans-Dietrich, 3,468,991.
Freudenberg, Carl, Kommanditgesellschaft auf Aktien: *See*—
Hartmann, Ludwig, 3,439,085.
Freudenschuss, Otto: *See*—
Broeckl, Heinz Wilhelm; and Freudenschuss, Otto,3,464,765.
Freudenschusz, Otto, to Vockenhuber, Karl Hauser, Raimund. Projector for substandard format film. 3,432,229, 3-11-69, Cl. 352-176.
Freudenschusz, Otto, to Vockenhuber, Karl, and Hauser, Raimund. Motion picture camera having means for changing film cartridge automatically. 3,463,580, 8-26-69, Cl. 352-73.
Freudenstein, Ferdinand. Intermittent motion mechanism employing non- circular gears. 3,424,021, 1-28-69, Cl. 74-394.
Freudenstein, Ferdinand; and McLarnan, Charles W. Intermittent motion chain mechanism. 3,440,891, 4-29-69, Cl. 74-84.
Freudl, Dr.: *See*—
Quietensky, Herbert; and Nitsch, Ernst, 3,471,329.
Freund, Ernest H., to National Dairy Products Corporation. Emulsifier system. 3,453,116, 7-1-69, Cl. 99-90.
Freund, Heinz-Eberhard; and Arndt, Friedrich, to Schering A.G. Herbicidal, halogenated urea derivative. 3,431,289, 3-4-69, Cl. 260-453.
Freund, Paul. Self-sealing coke oven door construction. 3,486,986, 12-30-69, Cl. 202-248.
Freund, Richard. Filamentary faced bearing. 3,429,627, 2-25-69, Cl. 308-238.
Freund, Thomas: *See*—
Morrison, Stanley R.; Sancier, Kenneth M.; and Freund, Thomas,3,433,964.
Freund, William G., to Munro, Hugh T., and Sons, Inc. Bale divider inserter. 3,420,161, 1-7-69, Cl. 100-44.
Freund, William P., to Alloy Engineering Company, The. Telescoping wire annealing spider. 3,443,801, 5-13-69, Cl. 263-47.
Freundlich, Jackson S., to Addressograph-Multigraph Corporation. Composite identification card. 3,475,247, 10-28-69, Cl. 156-220.
Frevel, Ludo K., to Dow Chemical Company, The. Boiler or the like. 3,479,992, 11-25-69, Cl. 122--235
Frevel, Ludo K., to Dow Chemical Company, The. Wet bottom boiler floor or the like. 3,479,993, 11-25-69, Cl. 122-235.
Frew, Duncan W., Jr., to Shell Oil Company. High-molecular weight, acetoxy-substituted saturated polybutadiene. 3,480,609, 11-25-69, Cl. 260-94.7
Frey, Albert J.; and Galantay, Eugene E., to Sandoz Inc. Benzobenzazulenes. 3,459,806, 8-5-69, Cl. 260-590.
Frey, Albert J.; Houlihan, William J.; and Manning, Robert E., to Sandoz Inc.Pyrrolo, pyrido, and azepino[2,3-b]indoles. 3,457,268, 7-22-69, Cl. 260-293.
Frey, Albert J.; and Manning, Robert E., to Sandoz Inc.1-Para-chlorophenyl-3-hydrazino-1,5,6,7,7,8α- hexahydroimidazo[1,5-α]pyridine and process for its preparation. 3,467,662, 9-16-69, Cl. 260-293.
Frey, Albert M.; and Griffith, Joseph W., to Allis-Chalmers Manufacturing Company. Voltage graded electrical insulator. 3,448,205, 6-3-69, Cl. 174-141.
Frey, Albert M.: *See*—
Perry, Elijah R.; and Frey, Albert M.,3,485,940.
Frey, Alexander H., Jr., to International Business Machines Corporation. Encoding transmission system. 3,475,725, 10-28-69, Cl. 340-146.1
Frey, Alexander H., Jr., to International Business Machines Corporation. Burst error correction system. 3,487,361, 12-30-69, Cl. 340-146.1
Frey, Alexander H., Jr., to International Business Machines Corporation. Transmission error detection and correction system. 3,487,362, 12-30-69, Cl. 340-146.1
Frey, Arnold J. Drafting device. 3,460,261, 8-12-69, Cl. 33-75.
Frey, Christian M.: *See*—
Grosh, James L.; and Frey, Christian M.,3,423,816.
Frey, Christian. Modular building unit. 3,455,075, 7-15-69, Cl. 52-236.
Frey, Christoph; Hecker, August; Mueller, Rudolf; and Surber, Werner, to Ciba Limited. Modification of 2:6-dibenzoylamino-3:7-diethoxy- 9:10-diacetylamino-triphendioxazine. 3,472,844, 10-14-69, Cl. 260-246.
Frey, Cleon F., to Comel International Corporation. Wire controlled flasher switch. 3,486,153, 12-23-69, Cl. 337-133.
Frey, David A.: *See*—
Ray, Gardner C.; and Frey, David A.,3,458,486.
Frey, Donald J.; and Roerden, Rudolph F., to Combustion Engineering, Inc. Gas burning system arrangement. 3,486,834, 12-30-69, Cl. 431-12.
Frey, Edward C., to International Stock Food Corporation. Fluent material dispenser with agitator and plural discharge assistants. 3,474,937, 10-28-69, Cl. 222-227.
Frey, Hubertus G., to General Time Corporation. Dial lighting assembly for clocks. 3,452,538, 7-1-69, Cl. 58-50.
Frey, Hubertus G., to General Time Corporation. Pull-out timepiece casing. 3,478,507, 11-18-69, Cl. 58-53.
Frey, Hubertus G.; and Cielaszyk, Edward F., to General Time Corporation. Barometer movement. 3,451,272, 6-24-69, Cl. 73-387.
Frey, Karl A.; and Simmons, Elmer C., to Mohawk Data Sciences Corporation. Positioning apparatus for a random access storage device using a dual-frequency reference track. 3,449,734, 6-10-69, Cl. 340-174.1
Frey, Max: *See*—
Dixon, Thomas E.; Faust, Donald M.; and Frey, Max,3,476,016.
Frey, Max, to Cascade Corporation. Apparatus for automatically handling palletized loads. 3,421,641, 1-14-69, Cl. 214-38.
Frey, Peter J. Counter flow jet flap. 3,454,239, 7-8-69, Cl. 244-42.
Frey, Samuel S., to Oakite Products Inc. Metal treating. 3,446,715, 5-27-69, Cl. 204-32.
Frey, Stuart M., to Ford Motor Company. Integrated hinge and door check assembly. 3,431,588, 3-11-69, Cl. 16-145.
Frey, Stuart M., to Ford Motor Company. Integrated hinge and door check assembly. 3,431,589, 3-11-69, Cl. 16-145.
Frey, William G.: *See*—
Curtiss, Lawrence M.; Castellani, Edward J.; and Frey, William G.,3,446,910.
Freyberger, Donald L.; and Longenecker, John F., to Lukens Steel Company. Process for the production of bonded metal structures. 3,469,301, 9-30-69, Cl. 29-480.
Freyberger, Wilfred Lawson, to American Cyanamid Company. Use of organic dithiols as flotation reagents. 3,469,692, 9-30-69, Cl. 209-166.
Freyermuth, Harlan B.; and Randall, David I., to GAF Corporation. Aminobenzylated phthalocyanines. 3,436,400, 4-1-69, Cl. 260-314.5
Freyermuth, Harlan B.: *See*—
Randall, David I.; and Freyermuth, Harlan B.,3,486,838.
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for producing acetals and hemeacetals of phosphonium salt compounds. 3,471,569, 10-7-69, Cl. 260-606.5
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Sarnecki, Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the production of ylenals. 3,449,438, 6-10-69, Cl. 260-599.
Freyschlag, Herwig: *See*—
Reif, Werner; Haug, Peter; Freyschlag, Herwig; and Pommer, Horst,3,485,859.
Freystein, Wolfgang: *See*—
Blomecke, Werner; Freystein, Wolfgang; and Gasper, Herbert,3,450,061.
Freytag, Helmut; Reichold, Ernst; Bayer, Otto; Bockmann, Walter; and Wagner, Jochim, to Farbenfabriken Bayer Aktiengesellschaft. Amide compositions stabilized with alkylated diphenyl amines. 3,425,985, 2-4-69, Cl. 260-45.9
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard, to Agfa-Gevaert Aktiengesellschaft. Photographic material for the silver dye bleach process. 3,467,522, 9-16-69, Cl. 96-99.
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard, to Agfa-Gevaert Aktiengesellschaft. Photographic materials for the silver dye-bleach process. 3,480,438, 11-25-69, Cl. 96-99.
Freytag, Karl-Heinz: *See*—
Taube, Carl; and Freytag, Karl-Heinz,3,480,378.

Taube, Carl; and Freytag, Karl-Heinz,3,485,572.
Freytag, Klaus, to Drager, Otto Heinrich. Control apparatus for breathing apparatus. 3,426,794, 2-11-69, Cl. 137-607.
Freze, Benjamin H., to Challenge-Cook Bros., Incorporated. Tumbler dryer. 3,419,969, 1-7-69, Cl. 34-126.
Frezzolini, James A., to United Aerotest Laboratories, Inc. Constant current battery charger. 3,445,745, 5-20-69, Cl. 320-29.
Frezzolini, James A., to United Aerotest Laboratories, Inc. Battery discharge apparatus. 3,463,996, 8-26-69, Cl. 320-17.
Friberg, Jean Marie Eugene: *See*—
Fabri, Jean; Friberg, Jean Marie Eugene; Maginot, Pierre Henri Jean; Merigoux, Jean Marie; and Siestrunck, Raymond,3,447,740.
Friberg, Oscar. Container with detachable handle. 3,464,082, 9-2-69, Cl. 16-114.
Frick, Adalbert: *See*—
Kohler, Marcel; and Frick, Adalbert,3,474,634.
Frick Company: *See*—
Etter, Joseph A.; and Garland, Milton W., 3,485,057.
Flory, Ralph H., 3,447,290.
Kauffman, Harry G.; Sloan, Thomas F.; and Angle, Henry W., 3,482,699.
Seeley, William M., 3,481,151.
Seeley, William M., 3,481,152.
Shriver, William F., 3,451,226.
Shriver, William F.; Sanders, John T., III; Pike, John A.; and Angle, Henry W., 3,472,042.
Shriver, William F., 3,474,856.
Tosh, Roy B., 3,451,614.
Frick, David F., to Singer Company, The. Referencing arrangement. 3,486,045, 12-23-69, Cl. 307-296.
Frick, Gene: *See*—
Plehal, Edward J.; Frick, Gene; and Mintz, Martin,3,423,642.
Frick, German, to North American Philips Company, Inc. A.C. bridge circuit for determining the optimum operating condition of a D.C. generator. 3,434,055, 3-18-69, Cl. 324-158.
Frick, Hans Dieter: *See*—
Koehler, Roland; Birk, Rudolf; Frick, Hans Dieter; Fengler, Harald; and Geyken, Erwin,3,438,140.
Frick, Harold L., to Whirlpool Corporation. Oven heating means. 3,446,941, 5-27-69, Cl. 219-409.
Frick, John G., Jr.; and Pierce, Andrew G., Jr., to United States of America, Agriculture. Wrinkle-resistant cotton fabrics with improved moisture absorption. 3,427,121, 2-11-69, Cl. 8-115.6
Frick, John G., Jr.: *See*—
Pierce, Andrew G., Jr.; and Frick, John G., Jr.,3,441,366.
Pierce, Andrew G., Jr.; and Frick, John G., Jr.,3,441,367.
Frick, Richard H., to Kimberly-Clark Corporation. Sheet material assembly with interfolded webs including half web folds. 3,462,043, 8-19-69, Cl. 221-48.
Frick, Roger, to Rosemount Engineering Company. Rotary mower safety blade. 3,474,608, 10-28-69, Cl. 56-295.
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace, to Cincinnati Industries Inc. Universally stretchable paper laminate. 3,483,071, 12-9-69, Cl. 161-129.
Fricke, Betty W. Collapsible bedspread holder. 3,435,469, 4-1-69, Cl. 5-320.
Fricke, Guenter; and Singewald, Arno, to Wintershall Aktiengesellschaft. Recovery of kieserite from crude mineral salts. 3,480,139, 11-25-69, Cl. 209-9.
Fricke, Louis H., Jr., to Monsanto Company. Converter circuit. 3,436,673, 4-1-69, Cl. 330-51.
Fricke, Louis H., Jr.: *See*—
Gioia, Steve C.; and Fricke, Louis H., Jr.,3,477,034.
Fricke, Paul M., Jr.: *See*—
Moore, Donald L.; Fricke, Paul M., Jr.; and Spilman, Raymond R.,3,466,084.
Moore, Donald L.; Fricke, Paul M., Jr.; Tucker, William H.; and Spilman, Raymond R.,3,485,525.
Fricker, David C., to West Bend Company, The. Temperature control circuit. 3,467,817, 9-16-69, Cl. 219-501.
Fricker, Karl, to Swiss Aluminium Ltd. Anode for use in aluminum electrolysis having a peg in its head protected by a sleeve. 3,453,199, 7-1-69, Cl. 204-286.
Fricker, Ludwig, to Daimler-Benz Aktiengesellschaft. Internal combustion engine for driving vehicles. 3,483,853, 12-16-69, Cl. 123-102.
Friden, Inc.: *See*—
Adams, Clark N., 3,465,211.
Anderson, Maynard E.; Balaz, Charles S.; Reus, John F.; and Thorson, Sheldon E., 3,469,777.
Bastian, Donald G., 3,452,623.
Bethune, Manning Kirk, 3,422,945.
Bialik, Jack J.; Masher, Dale P.; and Stevens, William W., 3,430,095.
Blodgett, Edwin O., 3,426,880.
Blodgett, Edwin O., 3,432,644.
Blodgett, Edwin O., 3,434,576.
Blodgett, Edwin O., 3,439,852.
Dannatt, Hugh St. Lawrence, 3,474,889.
Dorsett, Henry Carl, 3,476,258.
Harris, George A., 3,465,099.
Hender, Thomas A.; and Cushman, James E., 3,434,371.
Kinney, Mel E.; and Viola, Vito, 3,444,977.
Lehtonen, Edwin W., 3,438,127.
Lundquist, Ingemar H., 3,476,657.
Marion, Andre F., 3,424,291.
O'Connor, Leonard N., 3,484,824.
Olson, John D., 3,475,284.
Osborn, Peter E., 3,465,301.
Ragen, Robert A., 3,435,351.
Ragen, Robert A., 3,442,364.
Ragen, Robert A., 3,466,507.
Ragen, Robert A.; and Herendeen, Carl E., 3,474,238.
Ragland, Evan L., III; and Wiedeman, Charles W., Jr., 3,442,365.
Reus, John F., 3,422,699.
Thayer, Louis C., 3,420,975.
Thayer, Louis C., 3,473,466.
Viola, Vito, 3,427,968.
Fridley, Robert B., to University of California, The Regents of the. Firmness tester for fruit. 3,470,737, 10-7-69, Cl. 73-81.
Fridrich, Elmer G., to General Electric Company. Method of making vacuum type electric incandes- cent lampy. 3,462,209, 8-19-69, Cl. 316-19.
Friebel, Hans: *See*—
Schulte, Karl; Fruhstorfer, Wolfgang; Muller, Heinrich; Friebel, Hans; Enenkel, Hans Joachim; and Gillissen, Josef,3,461,164.
Fried, David L., to North American Rockwell Corporation. Apparatus for detecting moving bodies by paired images. 3,443,100, 5-6-69, Cl. 250-206.
Fried, David L.; and Read, Wendell S., to North American Rockwell Corporation. Focused optical heterodyne system. 3,426,207, 2-4-69, Cl. 250-199.
Fried, John H.: *See*—
Cross, Alexander; and Fried, John H.,3,485,853.
Cross, Alexander D.; and Fried, John H.,3,481,957.
Cross, Alexander D.; and Fried, John H.,3,484,436.
Cross, Alexander D.; and Fried, John H.,3,484,465.
Edwards, John A.; and Fried, John H.,3,455,972.
Edwards, John A.; Fried, John H.; and Siddall, John B.,3,455,905.
Fried, John H., to Syntex Corporation. 4-Keto-1,3-benzodioxane and 4-keto-1,3- enzooxazine derivatives. 3,420,830, 1-7-69, Cl. 260-244.
Fried, John H., to Syntex Corporation. 17-Spirotetrahydrofuranyl and 17-oxospirotetrahydro- furanyl derivatives of the androstane series and the preparation thereof. 3,424,750, 1-28-69, Cl. 260-239.55
Fried, John H., to Syntex Corporation. Process for the preparation of novel 6α-methyl- $\Delta^{4,9(10)}$-diene steroids. 3,424,769, 1-28-69, Cl. 260-397.4
Fried, John H., to Syntex Corporation. 6α,7α-Ethylene and 6α,7α-tetrafluoroethylene derivatives of 4-pregneno- [3,2-c]-pyrazoles. 3,428,626, 2-18-69, Cl. 260-239.5
Fried, John H., to Syntex Corporation. Tetrahydropyranyloxy derivatives of stilbene derivatives. 3,428,657, 2-18-69, Cl. 260-345.8
Fried, John H., to Syntex Corporation. 6,7-Cyclopentanono and 6,7-cyclopentano steroids. 3,432,492, 3-11-69, Cl. 260-239.55
Fried, John H., to Syntex Corporation. 3-Ureido pregnanes. 3,450,723, 6-17-69, Cl. 260-397.3
Fried, John H., to Syntex Corporation. Cyclopentyl ethers of stilbene derivatives. 3,454,601, 7-8-69, Cl. 260-345.9
Fried, John H., to Syntex Corporation. 6α-Trifluoromethyl substituted steroids of the 5α, 5β, and Δ^4-pregnane series. 3,457,259, 7-22-69, Cl. 260-239.55
Fried, John H., to Syntex Corporation. 1-Cyclobuteno-(3',4';6α,7α) derivatives of the androstane and pregnane series. 3,459,741, 8-5-69, Cl. 260-239.55
Fried, John H., to Syntex Corporation. 6-Gem-difluoro [3,2-c] and [2,3-d] pyrazole steroids. 3,471,477, 10-7-69, Cl. 260-239.5
Fried, John H., to Syntex Corporation. Cyclobutano- and cyclobuteno-(3',4':6,7) derivatives of the pregnate and 19-nor-pregnane series. 3,485,827, 12-23-69, Cl. 260-239.55
Fried, John H., to Syntex Corporation. Cyclobutano-and cyclobuteno-(3',4':6,7) derivatives of the androstane and 19-nor- androstane series. 3,485,829, 12-23-69, Cl. 260-239.55
Fried, John H.; and Cross, Alexander D., to Syntex Corporation. Steroidal [7,6c]-pyrazoles of the androstane and pregnane series. 3,423,403, 1-21-69, Cl. 260-239.5
Sarett, Lewis H.; Bry, Thomas S.; Fried, John; Oberster, Arthur E.; and Beyler, Roger E.,3,452,007.
Fried, Josef, to Squibb, E. R., & Sons, Inc., mesne. A-Norsteroids. 3,484,453, 12-16-69, Cl. 260-310.
Fried, Josef; and Galantay, Eugene E., to Squibb, E. R., & Sons Inc., mesne. Intermediates useful in preparation of butenolides and process therefor. 3,446,821, 5-27-69, Cl. 260-343.6
Fried, Josef; and Galantay, Eugene E., to Squibb, E. R., & Sons, Inc, mesne. Heavy metal salts of butenolides. 3,472,877, 10-14-69, Cl. 260-343.6

Fried, Josef: *See—*
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter,3,422,134.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter,3,483,191.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter,3,483,225.
Rosenthal, David Walter; and Fried, Josef,3,484,476.
Fried. Krupp Gesellschaft mit beschrankter Haftung: *See—*
Hemmie, Gerd; and Arens, Egidius, 3,453,589.
Langner, Alexander; and Sukurs, Raimonds, 3,470,635.
Leisterer, Reinhard W.; and Hemmie, Gerd, 3,452,326.
Leisterer, Reinhard Wilhelm, 3,474,401.
Purnhagen, Heinz Wilhelm, 3,460,059.
Thiele, Rudolf W.; and Ziehm, Gunter H., 3,487,409.
Ziehm, Gunter; Triebold, Karl-Friedrich; Schief, Alfred; and Leisterer, Reinhard W., 3,464,056.
Fried, Robert A.; and Means, F. W., & Co.. Apparatus for removing particles from air. 3,423,906, 1-28-69, Cl. 55-302.
Fried, Robert S. Cards with singly oriented face indicia and related back indicia. 3,428,323, 2-18-69, Cl. 273-152.2
Fried, Rudolf; and Hoeflmayr, Joachim, to Haury, Heinz, Dr., Chemische Fabrik. Method for the determination of the bilirubin content of body liquids. 3,477,818, 11-11-69, Cl. 23-230.
Friedberg, Arthur A., to Braun W., Company. Means for closing and sealing a bottle or container. 3,462,034, 8-19-69, Cl. 215-40.
Friedberg, Michael A. Apparatus for measuring and plotting the surface contour of the eye by the use of sonic compressional waves. 3,442,579, 5-6-69, Cl. 351-6.
Friedberg, Samuel. Sun reflecting board. 3,463,577, 8-26-69, Cl. 350-292.
Friede, Allan J.: *See—*
Updyke, Kenneth W.; and Friede, Allan J.,3,485,228.
Friedel, Murray, to Visual Graphies Corp. Photoprinting and processing device. 3,437,409, 4-8-69, Cl. 88-24.
Friedel, William C., Jr.: *See—*
Hill, Fredrick L.; Gates, Lauren W.; and Friedel, William C., Jr.,3,429,440.
Friedell, Morley V., to Martin-Marietta Corporation. Pressure relief valve. 3,478,775, 11-18-69, Cl. 137-489.5
Friedenrich, Heinrich: *See—*
Erdmann, Kurt; Nerlick, Lydia, curatrix; Fischer, Claus; Friedenrich, Heinrich; and Bauer, Helmut,3,481,255.
Frieder, Leonard P.; and Baker, Edgar G., to Gentex Corporation. Life ring. 3,445,868, 5-27-69, Cl. 9-311.
Frieder, Leonard P.; Green, Clarks; and Luisada, August G., to Gentex Corporation. Heat reflective inflatable buoyant body. 3,425,071, 2-4-69, Cl. 9-11.
Friederichs, Josef E.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,427,454.
Friedl, Arno Rudolph, to International Synthetic Rubber Company Limited, The. Treatment of wool. 3,477,804, 11-11-69, Cl. 8-128.
Friedl, Arno Rudolph; and Dingley, Regoer Gavin, to International Synthetic Rubber Company Limited, The. Treatment of wool. 3,476,503, 11-4-69, Cl. 8-128.
Friedl, Arno Rudolph; and Dingley, Roger Gavin, to International Synthetic Rubber Company Limited, The. Process for preventing shrinkage and felting of wool. 3,437,519, 4-8-69, Cl. 117-141.
Friedland, V. & E., Limited: *See—*
Doggart, John, 3,425,057.
Friedlander, Erich Siegfried: *See—*
Fletcher, Charles Philip; Friedlander, Erich Siegfried; Manzler, Maurice Leslie; and Young, David John,3,450,981.
Friedlander, Herbert N.; and Menikheim, Virginia C., to Monsanto Company. Novel process for modification of fibers. 3,479,129, 11-18-69, Cl. 8-115.5
Friedlander, Ruth. Garment having anti-perspirant means. 3,421,514, 1-14-69, Cl. 128-454.
Friedlander, Saul. Method of determining area. 3,464,796, 9-2-69, Cl. 23-230.
Friedli, Hans R., to Dow Chemical Company, The. Method for preparing ether ketones and ether aldehydes. 3,462,495, 8-19-69, Cl. 260-590.
Friedman, Abraham. Activating means combination for a doll. 3,466,795, 9-16-69, Cl. 46-239.
Friedman, Alan R., to Upjohn Company, The. Alkyl 2-methylpropenyl ketoxime carbamates. 3,454,642, 7-8-69, Cl. 260-566.
Friedman, Allan: *See—*
Gelb, John, 3,463,020.
Gelb, John, 3,463,021.
Gelb, John, 3,463,027.
Friedman, Arnold I.: *See—*
Beaumont, David H.; and Friedman, Arnold I.,3,424,605.
Friedman, Arthur D.; and Menon, Premachandran R., to Bell Telephone Laboratories, Incorporated. Asynchronous sequential switching circuit using a single feedback delay element. 3,484,701, 12-16-69, Cl. 328-92.
Friedman, Cecil A.: *See—*
Wagner, Charles R.; Shultz, Andrew; Allen, Robert A.; and Friedman, Cecil A.,3,426,058.
Friedman, Charles M.: *See—*
Blank, Robert J.; Friedman, Charles M.; and Richman, Bruce,3,472,493.
Friedman, David, to Bell Telephone Laboratories, Incorporated. Low level signal switching arrangements. 3,439,190, 4-15-69, Cl. 307-259.
Friedman, Harry, deceased (by Friedman, Honora, executrix); Langmaid, Roger N.; and Pickart, Don E., to International Business Machines Corporation. Magnetic inks containing lecithin as a surfactant. 3,471,415, 10-7-69, Cl. 260-23.7
Friedman, Hirsch, to Cameras for Industry, Inc. Camera control circuit. 3,434,405, 3-25-69, Cl. 95-11.
Friedman, Howard K.: *See—*
Wenzel, Charles; and Friedman, Howard K.,3,428,059.
Friedman, Isidore H., Jr., to Thiokol Chemical Corporation. Thrust termination apparatus for solid propellant rocket motors. 3,434,291, 3-25-69, Cl. 60-254.
Friedman, Jerome. Swimming pool and underwater lighting system. 3,441,957, 4-29-69, Cl. 240-26.
Friedman, Joseph; and Glenn, Lewis A., to North American Rockwell Corporation. Rocket engine cooling. 3,439,503, 4-22-69, Cl. 60-267.
Friedman, Joseph; and Wachtell, Richard, to Chromalloy American Corporation. Anti-personnel ordnance device. 3,435,762, 4-1-69, Cl. 102-22.
Friedman, Lee: *See—*
Craig, Robert G.; Doelp, Louis C., Jr.; and Friedman, Lee,3,487,120.
Friedman, Lester A., Jr. Proportional dispensing fluid handling system. 3,454,027, 7-8-69, Cl. 137-101.21
Friedman, Lester, to Weston Chemical Corporation. Halogen and hydroxy containing phosphonates. 3,433,856, 3-18-69, Cl. 260-932.
Friedman, Lester, to Weston Chemical Corporation. Cyclic phosphites. 3,441,633, 4-29-69, Cl. 260-927.
Friedman, Lester, to Union Carbide Corporation, mesne. Phosphorous urethanes. 3,442,827, 5-6-69, Cl. 260-2.5
Friedman, Lester, to Weston Chemical Corporation. Polyphosphites of 2,2-dimethyl-3-hydroxypropyl- 2-dimethyl-3-hydroxypropionate. 3,442,982, 5-6-69, Cl. 260-927.
Friedman, Lester, to Weston Chemical Corporation. Neo carboxylate tetrol diphosphites. 3,457,331, 7-22-69, Cl. 260-929.
Friedman, Lester, to Weston Chemical Corporation. 2-Hydroxypolyalkoky dioxaphospholane or dioxaphosphorinane. 3,463,837, 8-26-69, Cl. 260-937.
Friedman, Lester. Halogen and hydroxy containing polyphosphorus compounds. 3,471,592, 10-7-69, Cl. 260-931.
Friedman, Lester, to Weston Chemical Corporation. Polyurethanes from hydroxy containing phosphites. 3,483,147, 12-9-69, Cl. 260-2.5
Friedman, Louis D.; and Eddinger, Ralph Tracy, to FMC Corporation. Hydrogenation of coal tar. 3,453,202, 7-1-69, Cl. 208-40.
Friedman, Marvin: *See—*
Gelb, John, 3,463,020.
Gelb, John, 3,463,021.
Gelb, John, 3,463,027.
Friedman, Marvin L.: *See—*
McMains, Billy D.; and Friedman, Marvin L.,3,426,942.
Friedman, Melvin: *See—*
Bartlett, Philip D.; and Friedman, Melvin,3,443,091.
Friedman, Morris, to Master Appliances, Inc. Wig block support. 3,448,957, 6-10-69, Cl. 248-226.
Friedman, Morton: *See—*
Tringali, Alfred M.; Lynch, John E.; and Friedman, Morton,3,475,367.
Friedman, Nathan H.; and Andruschkevich, Walter, Sr. Female urinal. 3,473,172, 10-21-69, Cl. 4-110.
Friedman, Robert H.: *See—*
Grolemund, John L.; and Friedman, Robert H.,3,454,094.
Friedman, Robert H., to Getty Oil Company. Method for recovery of petroleum oil from confining structures. 3,464,492, 9-2-69, Cl. 166-270.
Lesher, Howard D.; Friedman, Robert; and Foreman, Joseph O.,3,446,099.
Friedman, Ronald L.; and Lewis, Roger N., to Argus Chemical Corporation. Acetylenic diperesters. 3,444,230, 5-13-69, Cl. 260-453.
Friedman, Ronald S.: *See—*
Flachbarth, Charles T.; and Friedman, Ronald S.,3,458,182.
Friedman, Sam; and Hiteshue, Raymond W., to United States of America, Interior. Process for improving the heating values of fuel gases. 3,429,679, 2-25-69, Cl. 48-197.
Friedman, Samuel; Harris, Robert O.; Mauch, Erwin W.; Harris, James P.; and Manzo, Joseph F., to Brite Industries, Inc. Watch band construction. 3,470,638, 10-7-69, Cl. 40-107.
Friedman, Sidney: *See—*
Garber, Nat; and Friedman, Sidney,3,449,766.

Friedman, Sol, to Topper Corporation. Aerodynamic toy. 3,465,471, 9-9-69, Cl. 46-44.
Friedmann & Maier: *See—*
Hainz, Richard, 3,425,270.
Friedmann, Anton R. J.; and Eby, Ralph H., to Ward, Ashley F., Inc. Rotary impulse sprinkler. 3,434,664, 3-25-69, Cl. 239-206.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John, to Inpower Works (Proprietary) Limited. Fluid torque transmitter. 3,425,297, 2-4-69, Cl. 74-752.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John, to Inpower Works (Proprietary)Limited. Fluid torque transmitter. 3,449,983, 6-17-69, Cl. 74-752.
Friedmann, Harry: *See—*
Tarpinian, Haiq D.; and Friedmann, Harry,3,479,867.
Friedrich, Karl, to Bracker AG Metallwaren and Maschinenfabrik. Apparatus for forming locking heads on rivets. 3,440,850, 4-29-69, Cl. 72-67.
Friedrich, Leonard A.; and Hirakis, Emanuel, to United Aircraft Corporation. Refractory metal coated with a bonding metal and an outer glass surface. 3,446,606, 5-27-69, Cl. 29-195.
Friedrich Refrigerators, Incorporated: *See—*
Cootey, Thomas A.; and Fischer, Larry M., 3,478,532.
Smith, Gerald C., 3,474,639.
Friedrich, Richard; and Melchior, Siegfried. Device for discharging liquid and pasty substances under pressure. 3,486,661, 12-30-69, Cl. 222-95.
Friedrich Stubbe: *See—*
Wessel, Karl Heinz, 3,467,985.
Friedrichsen, Wilhelm; and Goehre, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Oxidation catalyst containing vanadium and titanium. 3,464,930, 9-2-69, Cl. 252-469.
Friedrichsen, Wilhelm; Poehler, Guenter; and Goehre, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of maleic anhydride by catalytic oxidation of olefinically unsaturated C_4- hydrocarbons. 3,478,063, 11-11-69, Cl. 260-346.8
Friedrichsen, Wilhelm; and Wegerich, Anton, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Reacting gases or vapors in a fluidized bed. 3,429,654, 2-25-69, Cl. 23-1.
Friehe, Bernhard: *See—*
Peters, Artur; and Friehe, Bernhard,3,445,050.
Frieling, Edward, to Electronic Enterprises, Inc. Radio direction finder. 3,469,262, 9-23-69, Cl. 343-115.
Frielinghaus, Klaus H.: *See—*
Auer, John H., Jr.; and Frielinghaus, Klaus H.,3,441,905.
Frielinghaus, Klaus H.; and Smith, Willis R., to General Signal Corporation. Multiaperture core shift register. 3,449,729, 6-10-69, Cl. 340-174.
Smith, Willis R.; Frielinghaus, Klaus H.; and Wetmore, Arthur W.,3,449,717.
Frielingsdorf, Hans: *See—*
Gouw, Lam H.; Voncken, Josef H.; Frielingsdorf, Hans; and Powers, Gene W.,3,480,507.
Frielingsdorf, Hans, to Shell Oil Company. Apparatus for producing a laminate having mechanically interlocking layers. 3,443,277, 5-13-69, Cl. 18-12.
Frielink, Johannes M.: *See—*
Van Saane, Pieter; and Frielink, Johannes M.,3,451,983.
Friemel, William J.; and Wielkens, Vernon B., to Diamond Shamrock Corporation. Mercury cathode electrolysis. 3,420,757, 1--69, Cl. 204-99.
Friend, Harley L.; and Cattell, Robert L., to Duncan Electric Company, Inc. Voltage regulation with correcton speed proportional to error. 3,457,494, 7-22-69, Cl. 323-43.5
Friend, Lindsay Carlton, to AMP Incorporated. Card reader having card-aligning means and wiping-contact means. 3,459,904, 8-5-69, Cl. 200-46.
Friend, Lindsay Carlton, to AMP Incorporated. Coaxial and shielded plugboard apparatus. 3,483,339, 12-9-69, Cl. 200-51.
Friend, William H. Oven for baking. 3,448,699, 6-10-69, Cl. 107-55.
Friendship, Kenneth F.: *See—*
Copping, Bruce G.; and Friendship, Kenneth F.,3,443,608.
Fries, Edward W., to DCA Food Industries Inc. Food processing machine. 3,433,150, 3-18-69, Cl. 99-403.
Fries, Heinrich; and Pfeil, Richard, to Keller Ofenbau G.m.b.H. Methods of continuously firing ceramic charge material in tunnel kilns, and tunnel kilns for carrying out these methods. 3,459,412, 8-5-69, Cl. 263-28.
Fries, John A., to National Starch and Chemical Corporation. Nonphasing neoprene cement compositions. 3,427,268, 2-11-69, Cl. 260-25.
Fries, John R.; and Price, Ralph E., to Landis Tool Company. Metal reed support for oscillating cradle. 3,468,070, 9-23-69, Cl. 51-101.
Fries, John R.; Price, Ralph E.; and Boller, John A., to Landis Tool Company, mesne. Multiple master cams for cam grinding machines. 3,468,069, 9-23-69, Cl. 51-101.
Friese, Andreas: *See—*
Strobelt, Walter; Huber, Erwin; and Friese, Andreas,3,449,527.
Friesecke, Klaus, to Bolkow Gesellschaft mit beschrankter Haftung. Light beam direction detector with reciprocating lens. 3,448,284, 6-3-69, Cl. 250-234.
Friesen, Clarence W.: *See—*
Lombardo, John M.; Friesen, Clarence W.; and Lombardo, Louis M.,3,452,486.
Friesen, Gordon A., Associates, Inc.: *See—*
Friesen, Gordon A.; and Culbertson, James F., 3,423,521.
Friesen, Gordon A., International, Inc.: *See—*
Friesen, Gordon A.; and Sproull, Reavis C., 3,475,767.
Friesen, Gordon A.; and Culbertson, James F., to Friesen, Gordon A., Associates, Inc. Television system having common transmission line for power, video signals, and command signals. 3,423,521, 1-21-69, Cl. 178-5.6
Friesen, Gordon A.; and Sproull, Reavis C., to Friesen, Gordon A., International, Inc. Sanitary disposable receiver for liquid and solid materials, especially human wastes. 3,475,767, 11-4-69, Cl. 4-110.
Friesen Industries, Incorporated: *See—*
Friesen, Vernon W.; Klassen, Jake D.; and Kohman, Fred H., 3,460,631.
Friesen, Vernon W.; Klassen, Jake D.; and Kohman, Fred H., to Friesen Industries, Incorporated. High clearance wheel mounted spring-tooth harrow. 3,460,631, 8-12-69, Cl. 172-311.
Friesner, Charles E. Method of making thermoplastic articles having non-planar surface contours. 3,478,138, 11-11-69, Cl. 264-145.
Friess, Klaus; Ulrich, Richard; and Kritikos, Athanasios, to Siemens Aktiengesellschaft. Ferromagnetic manganese-magnesium-zinc ferrite-body with rectangularly shaped hysteresis loop and process for its manufacture. 3,476,688, 11-4-69, Cl. 252-62.6
Frig, Gerald E., to General Motors Corporation. Seat belt tension indicator. 3,440,602, 4-22-69, Cl. 340-52.
Frig, Gerald E.; Heuston, Philip T.; and Thumudo, Mario F., Jr., 1/2 to Acushnet Process Company, and 1/2 to General Motors Corporation. Resilient seat platform with integral means for attachment to a frame. 3,425,067, 2-4-69, Cl. 5-186.
Frigger, Heinz, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Spot-type disk brake with plural actuators. 3,424,279, 1-28-69, Cl. 188-73.
Frigger, Heinz, to Teves, Alfred, Maschinen- und Armaturenfabrik K.G. Disk-brake system including plural actuators. 3,425,519, 2-4-69, Cl. 188-73.
Frigger, Heinz, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Disk-brake assembly including plural actuators. 3,425,520, 2-4-69, Cl. 188-73.
Frigger, Heinz, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Disk-brake and actuating means therefor. 3,429,405, 2-25-69, Cl. 188-73.
Frigger, Heinz, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Disk brake and actuator therefor. 3,439,780, 4-22-69, Cl. 188-106.
Frigid Food Products, Incorporated: *See—*
Mc Leod, Ellsworth W., 3,451,824.
Frigidmeats, Inc.: *See—*
Greenspan, Joseph, 3,457,085.
Frigidome Corporation: *See—*
Peterschmidt, Paul L., 3,426,669.
Frigitronics, Inc.: *See—*
Thyberg, Victor A., 3,451,395.
Frigstad, Robert A., to Minnesota Mining and Manufacturing Company. Adhesive composition containing high molecular weight polyamides, epoxy resins and curing agents. 3,449,280, 6-10-69, Cl. 260-29.2
Frigstad, Robert A., to Minnesota Mining and Manufacturing Company. Heat-curable filament-reinforced resinous sheeting and laminating process using same. 3,472,730, 10-14-69, Cl. 161-144.
Friichtenicht, Joseph F.: *See—*
Hansen, David O.; Friichtenicht, Joseph F.; and Roy, Neal L.,3,435,208.
Frijlink, Willem, to Shell Oil Company. Reservoir for storing two fluids. 3,438,215, 4-15-69, Cl. 62-45.
Frilette, Vincent J. Mobil Oil Corporation Process for reducing carbon dioxide with hydrogen hydrogen to carbon monoxide. 3,479,149, 11-18-69, Cl. 23-204.
Frill, Richard K., to Westinghouse Air Brake Company. Automatic railway car coupler with multiple contact electric portion. 3,472,396, 10-14-69, Cl. 213-1.3
Frill, Richard K.: *See—*
Reno, William H.; and Frill, Richard K.,3,460,872.
Frill, Robert H., to North American Rockwell Corporation. Strand guide means for spiral winders. 3,479,808, 11-25-69, Cl. 57-10.
Frimmel, Karl: *See—*
Steinke, Leo; Sohner, Gerhard; Hurst, Kurt; Gerber, Richard; Frimmel, Karl; and Herrmann, Otto,3,486,075.
Frind, Gerhard: *See—*
Carroll, James J.; and Frind, Gerhard,3,452,174.
Frindel, Louis Jean-Marie, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Arc spot-welding. 3,476,908, 11-4-69, Cl. 219-127.

Frindel, Sebastien: *See—*
Bernelin, Bernard Marcel; Frindel, Sebastien; and Benezech, Claude,3,468,072.
Fringe Equipment, Inc.: *See—*
Card, Joseph Lewis; Passons, William Erby; and Richmond, Freddie M., 3,486,780.
Frings, Horst, to Daimler-Benz Aktiengesellschaft. Piston internal combustion engine with a cooling water circulatory system produced by a water pump. 3,486,488, 12-30-69, Cl. 123-41.01
Frings, Manfred: *See—*
Ambros, Otto; Hauck, Gerhard; and Frings, Manfred,3,458,378.
Frink, Russell E.; and Walker, Clayton T., to Westinghouse Electric Corporation. Dropout fuse structure. 3,447,114, 5-27-69, Cl. 337-171.
Frink Snow-Plows, Inc.: *See—*
Bogenschutz, Thomas M., 3,464,129.
Frinkmeyer, Francis M.: *See—*
Creighton, John H.; Frinkmeyer, Francis M.; and Hanser, Paul E.,3,450,213.
Fripp, Alan: *See—*
Drage, James, John; and Fripp, Alan,3,465,296.
Frisbie, Jack Gene: *See—*
Yuan, William Ke-Chin; Frisbie, Jack Gene; and Bull, James George,3,452,157.
Frisby, Clinton D.; and Spence, David W., to Infotronics Corporation. Wide-range analog-to-digital integrator for use with analytical measuring instruments. 3,470,367, 9-30-69, Cl. 235-183.
Frisby, Clinton D.: *See—*
Ehrlich, Burney J.; Spence, David W.; and Frisby, Clinton D.,3,475,740.
Frisch, Arnold M., to Tektronix, Inc. Radio receiving and display apparatus. 3,487,314, 12-30-69, Cl. 325-363.
Frisch, Eldon E., to Dow Corning Corporation. Method of making custom-fitted earplugs for hearing aids. 3,440,314, 4-22-69, Cl. 264-222.
Frisch, Erling; and Brenner, William C., to Westinghouse Electric Corporation. High magnetic flux experimental apparatus. 3,467,076, 9-16-69, Cl. 128-1.3
Frisch, Karl W.: *See—*
Seulen, erhard; Reinke, Friedhelm; Frisch, Karl W.; and Oertel, Fritz,3,483,346.
Frisch, Kurt C.: *See—*
Damusis, Adolfas; and Frisch, Kurt C.,3,448,172.
Frisch, Michael N. Vehicle location indicator. 3,483,506, 12-9-69, Cl. 340-24.
Frische, Richard H., to Sperry Rand Corporation. Vibrating diaphragm pressure sensor apparatus. 3,456,508, 7-22-69, Cl. 73-398.
Frischer, Blanche; and Frischer, Robert. Foundation garments. 3,459,190, 8-5-69, Cl. 128-483.
Frischer, Robert: *See—*
Frischer, Blanche; and Frischer, Robert,3,459,190.
Frischmann, Peter G., to General Electric Company. Electronic clinical thermometer. 3,434,349, 3-25-69, Cl. 73-361.
Frischmuth, Robert W., to SCM Corporation, mesne. Pre-grouted flexible tile panel. 3,421,277, 1-14-69, Cl. 52-390.
Frish, William G. Blanchers for food products. 3,420,157, 1-7-69, Cl. 99-404.
Frishman, Daniel; and Caruso, Michael G., to Reid-Meridith, Inc. Method and apparatus for preparing hair pieces such as chignons, falls and the like and articles produced thereby. 3,467,110, 9-16-69, Cl. 132-5.
Frishman, Daniel; and Clyman, George R., to Reid Meredith, Inc. Apparatus for knitting frosted pile fabric. 3,447,343, 6-3-69, Cl. 66-9.
Frishof, Henry, to McDowell Manufacturing Company. Dragline coupling. 3,485,515, 12-23-69, Cl. 285-5.
Frisk, Knut Olov; and Gustafsson, Karl Paul, to AB Tico. Power-limiting device for a machine provided with two or more working components. 3,476,017, 11-4-69, Cl. 91-412.
Frisk, Leslie L., to Union Steel Products Company. Conveyor system. 3,450,250, 6-17-69, Cl. 198-136.
Frisk, Olof Edvin: *See—*
Eriksson, Erik Helmer; Frisk, Olof Edvin; and Hogberg, Lars-Gunnar,3,443,610.
Friske, Warren H.; and Supan, Edward C., to North American Rockwell Corporation. Method of joining aluminum and ferrous members. 3,436,805, 4-8-69, Cl. 29-482.
Frisman, Mark M.: *See—*
Lopez, Gordon R.; and Frisman, Mark M.,3,485,282.
Fristoe, John E.; and Chambers, Dale T., to Chrysler Corporation. Damper control for refrigeration systems. 3,466,889, 9-16-69, Cl. 62-184.
Fritch, Junior L., to Robinair Manufacturing Corporation. Pressure can valve clamp. 3,438,656, 4-15-69, Cl. 285-178.
Fritch, Junior L., to Robinair Manufacturing Corporation. Battery holder. 3,473,966, 10-21-69, Cl. 136-173.
Frith, England: *See—*
Turner, John Harry Wallice; Frith, England; and Krug, Pavel,3,481,828.
Fritsch & Co., HG: *See—*
Fritsch, Erich, 3,431,014.
Fritsch, Daniel F.: *See—*
Prindell, Stuart M., Jr.; Perry, Malcolm R.; Martin, Vincent W.; and Fritsch, Daniel F.,3,479,815.
Fritsch, Erich, to Fritsch & Co., HG. Headwind deflector. 3,431,014, 3-4-69, Cl. 296-1.
Fritsch, Felix, to Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen- Kessel-und Waggonbau. Transmission for moving large equipment, particularly converters. 3,456,520, 7-22-69, Cl. 74-410.
Fritsch, Felix, to Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kessel-und Waggonbau. Tooth gearing with power distribution. 3,479,909, 11-25-69, Cl. 74-714.
Fritsch, Rudolf Paul, to Werner & Pfleiderer. Method of producing worm elements for use in worm extruders. 3,456,317, 7-22-69, Cl. 29-156.8
Fritsch, Rudolf Paul, to Werner & Pfleiderer. Apparatus for shaping raw rubber bodies. 3,477,101, 11-11-69, Cl. 18-30.
Fritsch, Werner: *See—*
Haede, Werner; Radscheit, Kurt; Fritsch, Werner; Stache, Ulrich; and Ruschig, Heinrich,3,461,145.
Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Ruschig, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing Δ^{14}-3,20-diketo-21- acyl-steroids. 3,468,918, 9-23-69, Cl. 260-397.47
Fritsch, Werner; and Stache, Ulrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of 3-substituted Δ^{5}-6-methyl-steroid compounds. 3,471,480, 10-7-69, Cl. 260-239.55
Fritsch, Werner; Stache, Ulrich; and Haede, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of 14β- hydroxy-card-20 (22)-enolides. 3,454,563, 7-8-69, Cl. 260-239.57
Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Unsaturated lactones of the steroid series and process for their manufacture. 3,455,910, 7-15-69, Cl. 260-239.57
Stache, Ulrich; Fritsch, Werner; and Haede, Werner,3,420,820.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard,3,462,421.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard,3,474,091.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; Radscheit, Kurt; and Vogel, Gerhard,3,483,233.
Fritsche, Walter, to Tenka-Automaten, Kirschner & Co., Firma. Take-up reeling device for safety belts and/or similar appliances. 3,442,466, 5-6-69, Cl. 242-107.4
Fritschi, Walter W., to Bell Telephone Laboratories, Incorporated. Dial pulse repeating and correcting circuit. 3,450,843, 6-17-69, Cl. 179-16.
Fritschi, Walter W., to Bell Telephone Laboratories, Incorporated. Pulse corrector circuit. 3,452,220, 6-24-69, Cl. 307-293.
Fritts, Rex E., to Collins Radio Company. Feedback compressor circuit to control maximum percentage modulation. 3,422,356, 1-14-69, Cl. 325-159.
Fritz Buser AG.: *See—*
Bjarno, Knud Maro Henrik, 3,448,559.
Fritz, Clarence L. Billiard cue shaped golf putter. 3,445,112, 5-20-69, Cl. 273-77.
Fritz, Coey William; and Schwalm, Glendon Henry, to AMP Incorporated. Crimping apparatus for coaxial terminals in strip form. 3,484,922, 12-23-69, Cl. 29-203.
Fritz, Coey William: *See—*
Schwalm, Glendon Henry; and Fritz, Coey William,3,484,936.
Fritz, Dale C.: *See—*
Drybread, John S., Sr.; and Fritz, Dale C.,3,430,376.
Fritz Drexler: *See—*
Himmel, Franz, 3,429,581.
Fritz, Ernest M. Apparatus for removing iron from water. 3,421,625, 1-14-69, Cl. 210-101.
Fritz Gegauf Aktiengesellschaft: *See—*
Gegauf, Fritz, 3,454,145.
Fritz Hellige & Co., G.m.b.H.: *See—*
Wallenfels, Karl Hans, 3,428,772.
Fritz, Henry E.; and Peck, David W., to Union Carbide Corporation. Bis[9-(substituted alkyl) fluoren-9-YL] alkanes. 3,426,069, 2-4-69, Cl. 260-562.
Fritz, Jacques: *See—*
Schwachhofer, Ghislain; and Fritz, Jacques,3,476,835.
Fritz, Karl. Cabinet and door construction for microwave heating appliances. 3,436,508, 4-1-69, Cl. 219-10.55
Fritz, Karl, to Teves, Alfred, GmbH. Master cylinder for brake systems and the like. 3,473,330, 10-21-69, Cl. 60-54.6
Fritz, Martin J. Thermal surge shower unit. 3,458,874, 8-5-69, Cl. 4-145.
Fritz, Richard C.: *See—*
Brewer, Charles C.; Fritz, Richard C.; and Moe, James M.,3,424,808.
Fritz, William E., to Union Tank Car Company. Valve. 3,420,501, 1-7-69, Cl. 251-305.

Fritz, William E., to Fabko Engineering Company, Inc. Hopper outlet construction. 3,482,741, 12-9-69, Cl. 222-554.
Fritz, William O., to Harvey Dental Specialty Company. Pressure chamber cover latch. 3,473,693, 10-21-69, Cl. 220-57.
Fritz, William R. Re-locatable a-frame type building structure. 3,460,297, 8-12-69, Cl. 52-66.
Fritzberg, Edward L., to Pillsbury Company, The. Refrigerated ready-to-bake cake mix. 3,449,131, 6-10-69, Cl. 99-94.
Fritze, Curtis W.; and Daniels, Howard L., to Sperry Rand Corporation. Symbol detection. 3,436,731, 4-1-69, Cl. 340-146.3
Fritzmeier, Georg, KG.: *See—*
Bauer, Simon; and Wittmann, Josef, 3,480,324.
Fritzmeier, Georg, KG, Firma: *See—*
Stuckenberger, Anton, 3,451,715.
Fritzpatrick, John, to Thomas & Betts Corporation. Electrical terminal. 3,452,324, 6-24-69, Cl. 339-256.
Fritzsche, Hellmut: *See—*
Tiemann, Jerome J.; Engeler, William E.; Garfinkel, Marvin; and Fritzsche, Hellmut,3,462,223.
Fritzweiler, Rupprecht; Heckmaier, Joseph; Gerstner, Ferdinand; Wimmer, Hans; and Winkler, Heinz, to Wacker-Chemie G.m.b.H. Continuous mixing apparatus. 3,471,131, 10-7-69, Cl. 259-8.
Friz, Hans; Neumayr, Franz; Reichert, Martin; Teltschik, Walter; and Wagner, Ulrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acetylene by incomplete combustion of hydrocarbons with oxygen. 3,452,114, 6-24-9, Cl. 260-679.
Frizell, Charles T., to Engel Equipment, Inc. Elastic-latching spacer for roll-forming machines and the like. 3,444,776, 5-20-69, Cl. 85-51.
Frobana K. G.: *See—*
Dreibholz, Egon, 3,457,578.
Froberg, Manus L.: *See—*
Day, Frank; and Froberg, Manus L.,3,437,327.
Froby, Howard M.: *See—*
Fleming, Robert I.; and Froby, Howard M.,3,465,912.
Frode, Per Enar Lennart: *See—*
Asklund, Per Filip Andreas; and Frode, Per Enar Lennart,3,455,482.
Thornblad, Rolf Filip Gunnar; and Frode, Per Enar Lennart,3,449,170.
Froden, Carl Erik Holger, to Uddeholms Aktiebolag. Process for removing an oxide layer from the surface of hardened strip steel by an electrolytical method. 3,450,610, 6-17-69, Cl. 204-145.
Froehlich, Alfred, to Ciba Limited. Process for the hardening of gelatine. 3,455,892, 7-15-69, Cl. 260-117.
Froehlich, Alfred, to Ciba Limited. Process for hardening gelatine by reacting with acrylic acid derivatives. 3,455,893, 7-15-69, Cl. 260-117.
Froehlich, Alfred, to Ciba Limited. Acylacetylamino silver halide emulsions containing couplers containing sulfuric acid ester groups. 3,472,145, 10-14-69, Cl. 96-100.
Froehlich, Monroe, Jr., to DHJ Industries, Inc. Band reinforcing means for garments. 3,422,461, 1-21-69, Cl. 2-236.
Froehlich, Monroe, Jr., to DHJ Industries, Inc. Garment clip. 3,462,809, 8-26-69, Cl. 24-255.
Froehlig, Guy M., to Modern Album and Finishing Inc. Phonograph record album. 3,452,918, 7-1-69, Cl. 229-6.
Froehling, Dieter K. O.: *See—*
De Hart, Edward G.; and Froehling, Dieter K. O.,3,464,351.
Froehner, Warren P.; Swallow, Robert E.; and Huffman, Delbert W., to United States of America, Navy. Frictionless relief valve. 3,450,155, 6-17-69, Cl. 137-508.
Froelich, Edward. Back support. 3,446,531, 5-27-69, Cl. 297-284.
Froelich, Edward. Orthopedic seat back. 3,463,544, 8-26-69, Cl. 297-284.
Froelich, Edward. Back support. 3,464,752, 9-2-69, Cl. 297-231.
Froelich, Gunnar Cramer: *See—*
Hahn, Paul Turner; Hoopes, Penrose Robinson; and Froelich, Gunnar Cramer,3,456,324.
Froelich, Martin, to Sulzer Brothers Limited. Liquid compensating apparatus for use in combination with a liquid sterilization and racking system. 3,428,413, 2-18-69, Cl. 21-103.
Froelich, Ronald W.: *See—*
Miller, Jack V.; and Froelich, Ronald W.,3,432,723.
Froemel, John C.; and Sapoff, Meyer, to Victory Engineering Corporation. Arc deposition of platinum-carbon electrically resistive films. 3,428,541, 2-18-69, Cl. 204-192.
Froemel, John G.; and Sapoff, Meyer, to Victory Engineering Corporation. Triode sputtering apparatus and method using syncronized pulsating current. 3,464,907, 9-2-69, Cl. 204-192.
Froemel, John G.: *See—*
Sapoff, Meyer; and Froemel, John G.,3,452,314.
Sapoff, Meyer; and Froemel, John G.,3,483,114.
Froger, Claude, to Charbonnages de France. Hot-wire anemometers. 3,464,269, 9-2-69, Cl. 73-204.
Frohbach, Hugh F., to Southern Pacific Company. Video signal encoding technique for reduced bandwidth transmission. 3,470,325, 9-30-69, Cl. 179-15.55
Frohbach, Hugh F., to South Pacific Company. Time domain equalizer using analog shift register. 3,474,260, 10-21-69, Cl. 307-221.
Frohbach, Hugh F.; and Macovski, Albert, to Southern Pacific Company. Vertical resolutin facsimile system. 3,457,363, 7-22-69, Cl. 178-6.
Frohbach, Hugh F.; and Macovski, Albert, to Southern Pacific Company. Facsimile bandwidth reducing system. 3,474,191, 10-21-69, Cl. 178-6.
Frohberger, Paul-Ernst: *See—*
Ugi, Ivar; Fetzer, Uwe; Unterstenhofer, Gunter; Behrenz, Wolfgang; Frohberger, Paul-Ernst; and Scheinpflug, Hans,3,422,190.
Frohlich, Alfons, to Opti-Holding AG. Multi-strand slide fastener. 3,423,803, 1-28-69, Cl. 24-205.13
Frohlich, Alfons, to Opti-Holding AG., Firma. Endstop members for slide fasteners. 3,482,292, 12-9-69, Cl. 24-205.11
Frohlich, E., AG: *See—*
Staehli, Peter, 3,437,113.
Frohlich, Gerhard Joseph; Kratavil, Allan Jerome; and Zrike, Edward, to Hoffmann-La Roche Inc. Electrolytic process of making diacetone 2-keto gulonic acid. 3,453,191, 7-1-69, Cl. 204-78.
Frohlich, Josef, to Mannesmann Aktiengesellschaft. Rapid-action coupling for oil transfer apparatus. 3,442,535, 5-6-69, Cl. 285-27.
Frohlich, Josef, to Mannesmann Aktiengesellschaft. Turning connection for pipes under pressure. 3,468,564, 9-23-69, Cl. 285-111.
Frohlich, Sigure. Step-and-repeat photocomposing machine. 3,472,591, 10-14-69, Cl. 355-53.
Frohlich, Walter; Oberrauch, Hans; and Fischer, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing continuously higher molecular secondary and tertiary amines. 3,444,205, 5-13-69, Cl. 260-583.
Frohlicher, Stephen G., to Hoerner-Waldorf Corporation. Reclosable cartons. 3,426,956, 2-11-69, Cl. 229-17.
Frohmuller, Klaus; and Helms, Dieter, to Licentia Patent-Verwaltungs-G.m.b.H. External and internal rotor electric motors with vibration dampers. 3,483,407, 12-9-69, Cl. 310-51.
Frohmuller, Klaus; and Schenker, Hans-Joachim, to Licentia Patent-Verwaltungs-G.m.b.H. Insulating arrangement for electrical machines. 3,483,408, 12-9-69, Cl. 310-71.
Frohmuller, Klaus: *See—*
Trucks, Erich; Frohmuller, Klaus; and Helms, Dieter,3,459,978.
Frohner, Klaus; Horster, Horst; Lydtin, Hans Jurgen; and Reifenschweiler, Otto, to U.S. Philips Corporation, mesne. Device and method for reducing blackening in a lamp. 3,479,550, 11-18-69, Cl. 313-205.
Frohock, Richard H., to Cahan, Bernard R., trustee. Apparatus for producing offset printing plates. 3,455,229, 7-15-69, Cl. 95-94.
Froitzheim, Hans, to Daimler-Benz Aktiengesellschaft. Floor cover for the forward portion of vehicles, especially motor vehicles. 3,481,819, 12-2-69, Cl. 161-38.
Froitzhelm, Hans, to Daimler-Benz Aktiengesellschaft. Instrument panel of vehicles, especially commercial-type vehicles. 3,434,559, 3-25-69, Cl. 180-90.
Frolich, Hans: *See—*
Anders, Dietmar; and Frolich, Hans,3,482,279.
Frolich, Heinrich: *See—*
Kuhne, Rudolf; Meininger, Fritz; and Frolich, Heinrich,3,440,240.
Fromageries Bel-La Vache Qui Rit: *See—*
Fievet, Robert Henri Jules, 3,450,174.
Froman, Bernard: *See—*
Battermann, Johan; and Froman, Bernard,3,420,097.
Fromantin, Andre Paul Edouard. Shoe making device. 3,440,672, 4-29-69, Cl. 12-142.
Fromhold, Otto: *See—*
Kohler, Robert Felix; and Fromhold, Otto,3,463,184.
Fromm, Charles W.: *See—*
Teague, Walter Dorwin, Jr.; Montalbano, Anthony P.; and Fromm, Charles W.,3,468,298.
Fromm, Charles W., to Columbia Gas System Service Corporation. Heat-cleaning oven and method. 3,459,170, 8-5-69, Cl. 126-21.
Fromm, Dieter: *See—*
Hamprecht, Guenther; Mohr, Rudolf; Fromm, Dieter; Schwarzmann, Matthias; and Vogel, Ludwig,3,458,511.
Fromm, Eberhard: *See—*
Hirn, Helmut; and Fromm, Eberhard,3,483,805.
Fromm, Marvin M.; and Gigante, Mario, to McGraw-Edison Company. Support for conductors of electrical apparatus. 3,454,805, 7-8-69, Cl. 310-260.
Fromm, Robert Gustav: *See—*
Bonnet, Fritz; and Fromm, Robert Gustav,3,442,657.
Fromm , Stanley M. Spectacles having temples with adjustably biased ends. 3,479,110, 11-18-69, Cl. 351-123.
Fromme, Hartmut: *See—*
Wesch, Ludwig; and Fromme, Hartmut,3,440,655.
Frommel, Gerhard, to Honeywell Inc. Thermoelectric generator including a pilot burner. 3,441,450, 4-29-69, Cl. 136-217.
Frompovicz, Frank J., to Elco Corporation. Insulator feature with contact retention fingers. 3,440,596, 4-22-69, Cl. 339-206.
Fromson, Howard A. Art of casting fusible materials. 3,435,883, 4-1-69, Cl. 164-336.

Fromson, Howard A. Continuous metal casting method. 3,468,361, 9-23o69, Cl. 164-89.
Fromson, Howard A. Vacuum operated work-holding electrical contact device for electrolytic treatment. 3,481,858, 12-2-69, Cl. 204-297.
Fromson, Robert E., to Westinghouse Electric Corporation. Apparatus for electrochemically removing the surface layer from a workpiece. 3,445,372, 5-20-69, Cl. 204-212.
Fronicke, Herbert Hermann, to Bolton, R. B., (Hydraulics) Limited. Hydraulic unloading valve. 3,441,043, 4-29-69, Cl. 137-108.
Froning, H Robert; and Stanzione, John A., to Pan American Petroleum Corporation. Method for plugging formations by production of sulfur therein. 3,438,439, 4-15-69, Cl. 166-30.
Froning, H R., to Pan American Petroleum Corporation. Oil recovery from formations containing channels. 3,464,491, 9-2-69, Cl. 166-261.
Frontier Chemical Company: *See—*
Penner, Siegfried E.; and Malone, Alvis L., III, 3,476,792.
Frontier Insulation & Asbestos Inc.: *See—*
Daniels, Dennis, 3,473,829.
Frorath, Friedrich-Karl: *See—*
Bender, Ludwig; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl,3,455,811.
Mehne, Arthur; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl,3,455,798.
Froschle, Ernst, to Telefunken A.G. Junction transistor. 3,436,618, 4-1-69, Cl. 317-235.
Frosoy, Ottar Arvid. Sash protectors. 3,446,345, 5-27-69, Cl. 206-60.
Frossard, Remy; Hetzel, Max; Robert, Henri; and Haring, Henri, to Centre Electronique Horloger S.A. Pawl adjustment means in an electronic timepiece. 3,446,006, 5-27-69, Cl. 58-23.
Frosst, Charles E., & Co.: *See—*
Levi, Irving; and Blondal, Harold, 3,431,299.
Wasson, Burton Kendall; and Parker, John Mulvin, 3,450,719.
Frost, Albert C.: *See—*
Rhodes, Richard P.; and Frost, Albert C.,3,475,162.
Frost, Barry L.: *See—*
Dence, Donald S.; and Frost, Barry L.,3,439,766.
Frost, Edmund C. Photoelectric method and apparatus for locating a workpiece. 3,462,610, 8-19-69, Cl. 250-219.
Frost, Evert W. Survey rod holder. 3,441,239, 4-29-69, Cl. 248-44.
Frost, George Russey, to University of Illinois Foundation. Short interval timer. 3,458,990, 8-5-69, Cl. 58-144.
Frost, H., Company Limited: *See—*
Moss, Arthur William; Jones, Norman; and Carpenter, Kenneth, 3,445,948.
Frost, Harold R.: *See—*
Bruins, Paul F.; Benghiat, Isaac; and Frost, Harold R.,3,472,678.
Frost, Herbert; Pietsch, Guenter; and Grosse, Karl, to VEB Verpackungs- und Schokoladenmaschinen Dresden. Packaging machine. 3,483,668, 12-16-69, Cl. 53-167.
Frost, James Dahle. Energy absorbing mattress. 3,477,072, 11-11-69, Cl. 5-348.
Frost, John K., to Becton, Dickinson and Company. Biopsy specimen collecting and spreading device. 3,485,236, 12-23-69, Cl. 128-2.
Frost, John R., to Dow Chemical Company, The. Process for preparing filamentary microtapes of labyrinthian cross section. 3,448,187, 6-3-69, Cl. 264-285.
Frost, John S., to North American Rockwell Corporation. Electroluminescent crossed grid device for simultaneously displaying a plurality of points. 3,432,724, 3-11-69, Cl. 315-169.
Frost, John S., to North American Rockwell Corporation. Multicolored E. L. displays using external colored light sources. 3,448,334, 6-3-69, Cl. 315-169.
Frost, Richard H.; Criley, Ronald L.; Laliberte, George A.; and Maschi, Angelo P., to United States of America, Army, mesne. Releasable coupling. 3,425,739, 2-4-69, Cl. 294-83.
Frost, Richard H.; and Maguire, John. Can opener. 3,423,825, 1-28-69, Cl. 30-4.
Frost, Solomon: *See—*
Dubin, Dennis S.; and Frost, Solomon,3,476,529.
Frostell, Goran: *See—*
Linder, Fritz; Frostell, Goran; and Hesselgren, Sven-Gunnar,3,457,031.
Froster, A. J.: *See—*
Weitz, Otto, 3,425,715.
Frostick, Harold G., to United States Steel Corporation. Apparatus for inductively heating a traveling metal slab. 3,471,673, 10-7-69, Cl. 219-10.69
Frova, Andrea F.: *See—*
Boddy, Philip J.; and Frova, Andrea F.,3,428,811.
Boddy, Philip J.; and Frova, Andrea F.,3,462,712.
Frowein, Egbertus Adrianus, to Aktiengesellschaft Brown, Boveri & Cie. Pressure gas operated switch with closed gas circuit. 3,439,140, 4-15-69, Cl. 200-148.
Frowein, Egbertus Adrianus, to Aktiengesellschaft Brown, Boveri & Cie. Arrangement for pressure-gas switch operating with closed gas circuit and with SF_6 as the arc extinguishing medium. 3,480,751, 11-25-69, Cl. 200-148.
Froyd, Lawrence W., to American Machine & Foundry Company. Lever for switch actuation and hinge therefor. 3,484,572, 12-16-69, Cl. 200-172.
Fruchte, Erwin: *See—*
Dersin, Hansjurgen; and Fruchte, Erwin,3,425,878.
Fruehauf Corporation: *See—*
Botkin, Lawrence A., 3,430,648.
Chieger, George, 3,464,734.
Felts, Wallace M., 3,472,399.
Gerard, Thomas J., 3,453,720.
Heimann, Fred G., 3,432,979.
Hulverson, Adrian F., 3,425,710.
Hulverson, Adrian F.; Harper, John W.; and Saxton, Floyd G., 3,456,390.
Mathers, Robert V., 3,469,660.
Matthews, Edward, 3,458,027.
Mohrhusen, Theodore J., 3,438,682.
Mowatt-Larssen, Rolf, 3,442,225.
Pappas, George Demo; and Hoover, Alex Kay, 3,456,821.
Sweda, Adam D.; and Saxton, Floyd G., 3,456,962.
Tantlinger, Keith W.; Chieger, George; and Hulverson, Adrian F., 3,434,751.
Tantlinger, Keith W.; and Hulverson, Adrian F., 3,456,967.
Tantlinger, Keith W., 3,464,719.
Tantlinger, Keith W., 3,468,584.
Tantlinger, Keith W., 3,478,903.
Wilson, Davis Douglas; and Pappas, George Demo, 3,452,891.
Zweifel, Charles H.; Crittenden, Geoffrey H.; and Young, Robert R., 3,486,641.
Fruehling, Delmar F., to National Can Corporation. Dispenser unit. 3,424,346, 1-28-69, Cl. 222-61.
Fruehling, Gene R.; and Johnson, Jerome A., to Motorola, Inc. Protection circuit including power dissipation limiting means. 3,431,486, 3-4-69, Cl. 323-9.
Fruhstorfer, Wolfgang: *See—*
Schulte, Karl; Fruhstorfer, Wolfgang; Muller, Heinrich; Friebel, Hans; Enenkel, Hans Joachim; and Gillissen, Josef,3,461,164.
Fruhwirth, Otto; Schmidhammer, Ludwig; and Pichl, Eduard, to Wacker-Chemie G.m.b.H. Chlorinated hydrocarbon compositions. 3,424,805, 1-28-69, Cl. 260-652.5
Fruit Harvester Corporation: *See—*
Fairchild, Sherman Mills; and Jones, Clifton M., 3,452,528.
Fruktaw, Nicholas N., to United States of America, Air Force. Nozzle configurations and metallic seal design. 3,451,625, 6-24-69, Cl. 239-265.35
Fruman, Albert A. Wallboard mounting channel. 3,477,187, 11-11-69, Cl. 52-346.
Frump, John A., to Commercial Solvents Corporation. Nitrohydroxyethers. 3,437,693, 4-8-69, Cl. 260-611.
Frungel, Frank. Geodetic ranging system. 3,443,095, 5-6-69, Cl. 250-83.3
Frushour, George V.: *See—*
Stott, Ted; Gunyou, Lyman J.; Frushour, George V.; and Groeneveld, Wilbur E.,3,425,194.
Fruth, Franz: *See—*
Phleps, Konrad; Fruth, Franz; and Bloechl, Hanns,3,467,011.
Frutiger, William A., to Varian Associates. θ Mode magnetron having means for suppressing the three halves mode. 3,475,696, 10-28-69, Cl. 331-91.
Fry, Albert John: *See—*
Horwood, John Maurice; Gunter, Allen; and Fry, Albert John,3,428,269.
Fry, Charles L.; and Fry, Edwin L., to Portec, Inc., mesne. Transfer terminal for conveyor belt. 3,467,238, 9-16-69, Cl. 198-88.
Fry, Douglas James: *See—*
Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William,3,431,110.
Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William,3,463,640.
Fry, Edward H. Vacuum sealing device. 3,452,510, 7-1-69, Cl. 53-88.
Fry, Edwin L.: *See—*
Fry, Charles L.; and Fry, Edwin L.,3,467,238.
Fry, Henry Gordon, to Chalwynn Limited. Apparatus for teeing golf balls. 3,423,097, 1-21-69, Cl. 273-201.
Fry, Jeremy J., to Rotork Engineering Company Limited. Control units for valve actuators. 3,463,891, 8-26-69, Cl. 200-47.
Fry, Jeremy J., to Rotork Engineering Company Limited. Actuators. 3,473,397, 10-21-69, Cl. 74-89.15
Fry, Jeremy J., to Rotork Controls Limited. Control units for valve actuators. 3,480,746, 11-25-69, Cl. 200-47.
Fry, Jeremy J.; Hore, Donald L.; and Nott, Peter T.M., to Rotork Engineering Company Limited. Hydraulic actuators and control systems therefor. 3,475,000, 10-28-69, Cl. 251-30.
Fry, John S., to Union Carbide Corporation. Castor oil modified acrylic coating compositions. 3,454,509, 7-8-69, Cl. 260-19.
Fry, Ralph, to Ferro Corporation. Applicator for particulate material. 3,425,601, 2-4-69, Cl. 222-193.
Fry, Ralph, to Ferro Corporation. Applicator for particulate material. 3,434,758, 3-25-69, Cl. 302-61.

Fry, Stanley S., to Fansteel Inc. Tantalum component for electrical devices and method of making. 3,461,355, 8-12-69, Cl. 317-230.

Fry, Warren C., to General Equipment and Manufacturing Company. Controlled rectifier trigger circuit comprising SCR and plural storage means for discharging through SCR and maintaining conduction during positive anode voltage. 3,421,023, 1-7-69, Cl. 307-252.

Fry, Warren C.: *See—*
Motto, John W., Jr.; Fry, Warren C.; and Prunty, Ralph A.,3,461,319.

Fry, William Charles David; Parker, Patrick Neiland; Ross, William M., Jr.; and Parry, Jimmy H., to Dow Chemical Company, The. Open hole cement plugging. 3,447,608, 6-3-69, Cl. 166-293.

Fry, William Lawrence, to Lucas, Joseph, (Industries) Limited. Bulb holders for use with printed circuit boards. 3,461,418, 8-12-69, Cl. 339-17.

Frydryk, John T., to Johnson & Johnson. Method and apparatus for automatically hemming cut portions of textile fabrics. 3,467,037, 9-16-69, Cl. 112-2.

Frye, Alfred H., to Cincinnati Milling Machine Co., The. Oxidation of olefinic compounds with solutions of thallium (III) salts. 3,452,047, 6-24-69, Cl. 260-340.5

Frye, Alfred H., to Cincinnati Milling Machine Co., The. Process for electrolytic oxidation of thallium or cerium salts. 3,486,992, 12-30-69, Cl. 204-86.

Frye, Cecil L., to Dow Corning Corporation. Functional oxydisilethylene monomers. 3,427,338, 2-11-69, Cl. 260-448.2

Frye, Cecil L. Pentacoordinate silicon complexes of vicinal aliphatic diols. 3,455,980, 7-15-69, Cl. 260-448.8

Frye, Cecil L., to Dow Corning Corporation. Ortho substituted triarl tertiary amines. 3,461,165, 8-12-69, Cl. 260-571.

Frye, Cecil L., to Dow Corning Corporation. Heterocyclic silicon compounds. 3,465,020, 9-2-69, Cl. 260-448.8

Frye, George J., to Tektronix, Inc. Time domain reflectometry system having a current source for locating discontinuities in a transmission line. 3,434,049, 3-18-69, Cl. 324-52.

Frye, Harold E.: *See—*
Arulpragasam, Jeganandaraj A.; and Frye, Harold E.,3,434,114.
Donner, Edward O.; Keeler, Howard S.; Botjer, John L.; and Frye, Harold E.,3,453,384.

Frye, Henry G., to Pacific Car and Foundry Company. Edge-cladding of a clad metal plate. 3,466,736, 9-16-69, Cl. 29-477.7

Frye, Irvin S., to Ocean Science and Engineering, Inc. Adjustable shackle. 3,468,123, 9-23-69, Cl. 59-86.

Frye, John S.: *See—*
Fuss, James B.; and Frye, John S.,3,468,093.

Frye, Jud K. Master key attachment. 3,479,850, 11-25-69, Cl. 70-447.

Fryer John Tim, to National Research Development Corporation. Agricultural implements. 3,461,999, 8-19-69, Cl. 198-9.

Fryer, Robert Howard. Game playing apparatus. 3,479,027, 11-18-69, Cl. 273-1.

Fryer, Rodney Ian: *See—*
Brust, Bernar; Fryer, Rodney Ian; and Sternbach, Leo Henryk,3,420,841.
Brust, Bernard; Fryer, Rodney Ian; and Sterbach, Leo Henryk,3,420,836.
Farley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk,3,464,978.

Fryer, Rodney Ian; Reeder, Earl; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 2-Aminoalkylamino-benzophenones-oximes and imines and the salts thereof. 3,431,304, 3-4-69, Cl. 260-570.

Fryer, Rodney Ian; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc.2-Amino-2' and 4'-cyanobenzophones. 3,439,016, 4-15-69, Cl. 260-465.

Fryer, Rodney Ian; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Process for preparing halobenzophenoneimines. 3,440,281, 4-22-69, Cl. 260-566.

Fryer, Ross L.; and Hill, Dennis C., to Continental Motors Corporation, mesne. In-let valve for internal combustion engine. 3,479,997, 11-25-69, Cl. 123-75.

Fryer, Thomas B., to United States of America, National Aeronautics and Space Administration. Telemeter adaptable for implanting in an animal. 3,453,546, 7-1-69, Cl. 325-143.

Frymire, Garold D., to Parlyn, Inc. Lever operator assembly. 3,470,764, 10-7-69, Cl. 74-528.

Frysztak, Jerome P., to Motorola, Inc. Reed switch controlled indicator for vehicle generating system. 3,426,264, 2-4-69, Cl. 320-48.

Fthenakis, Emanuel, to General Electric Company. Attitude stabilizer for space vehicles. 3,472,468, 10-14-69, Cl. 244-1.

FTS Corporation: *See—*
Couper, John R., 3,452,368.

Fuchino, Yoshio: *See—*
Nakai, Tsuneo; Minehisa, Setsuji; Fuchino, Yoshio; and Tsuchihira, Hisao,3,446,931.

Fuchs, Abraham M., to Weston Instruments, Inc. Multichannel analog analyzer. 3,439,269, 4-15-69, Cl. 324-77.

Fuchs, Abraham M.; and Catania, Salvatore C., to Weston Instruments, Inc. D.C. power spectrum and Fourier transform analyzer. 3,466,431, 9-9-69, Cl. 235-151.3

Fuchs, Alfons; and Babel, Albert, to Gesellschaft fur Elektrometallurgie m.b.H., and Lonza-Werke Elektrochemische Fabriken G.m.b.H. Sinter products for nitrating steel. 3,472,655, 10-14-69, Cl. 75-205.

Fuchs, Alfred, to AB Tetra Pak. Method and apparatus for producing a packaging material having strip on one side and covering tapes on the other side. 3,471,351, 10-7-69, Cl. 156-252.

Fuchs, Benjamin H. Expandable underreamer. 3,425,500, 2-4-69, Cl. 175-269.

Fuchs, Benjamin H. Underreamer having unequal arm extension radii. 3,483,934, 12-16-69, Cl. 175-267.

Fuchs, Bernard P. Corn ear orienting device. 3,478,863, 11-18-69, Cl. 198-33.

Fuchs, Bruno. Mud machine for rice and similar crops. 3,454,104, 7-8-69, Cl. 172-176.

Fuchs, Dorine K., 1/2 to Weis, Rainer L. Aid for alleviating varicose veins. 3,474,780, 10-28-69, Cl. 128-95.

Fuchs Electrical Industries (Proprietary) Limited: *See—*
Schreckenberg, Karl E.; and Jessen, Jens, 3,475,708.

Fuchs, Francis Joseph, Jr.: *See—*
Archer, John Wesley; and Fuchs, Francis Joseph, Jr.,3,452,566.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Methods of hydrostatic extrusion. 3,451,241, 6-24-69, Cl. 72-60.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Apparatus for deep drawing solid plastic materials. 3,459,021, 8-5-69, Cl. 72-60.

Fuchs, George L.; and Mullin, Francis J., to Bell Telephone Laboratories, Incorporated. Telephone wire pair clip. 3,485,467, 12-23-69, Cl. 248-68.

Fuchs, Gyula S. Atomizing device for carburetors. 3,485,482, 12-23-69, Cl. 261-23.

Fuchs, Harold O. Engine ignition system performance monitor. 3,474,667, 10-28-69, Cl. 73-116.

Fuchs, Helmut: *See—*
Weber, Friedrich; Fuchs, Helmut; and Kummer, Karl-Joachim,3,443,878.

Fuchs, Joseph E. Apparatus for reclaiming solids. 3,471,014, 10-7-69, Cl. 209-155.

Fuchs, Joseph: *See—*
Riss, Paul; and Fuchs, Joseph,3,454,181.

Fuchs, Julius, du Pont de Nemours, E. I., and Company. Preparation of primary α-aminonitriles. 3,422,132, 1-14-69, Cl. 260-464.

Fuchs, Klaus, to VEB Funkwerk Erfurt. Shock and vibration-resistant arrangement for cathodes of small heating power. 3,465,195, 9-2-69, Cl. 313-270.

Fuchs, Morton: *See—*
Craig, George B., Jr.; and Fuchs, Morton,3,450,816.

Fuchs, Otto: *See—*
Dietz, Erich; Fuchs, Otto; Schinzel, Erich; and Wagner, Dieter,3,420,843.

Fuchs, Otto; and Deubel, Reinhold, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble phthalocyanine dyestuffs and process for preparing them. 3,454,568, 7-8-69, Cl. 260-242.

Fuchs, Richard W., to AMBAC Industries, Incorporated. Hand primer. 3,446,154, 5-27-69, Cl. 103-153.

Fuchs, Robert J., to FMC Corporation. Non-caking sodium tripoly phosphate. 3,446,580, 5-27-69, Cl. 23-106.

Fuchs, Samuel J. Flat slab construction. 3,435,572, 4-1-69, Cl. 52-251.

Fuchs, Walter, to Teves, Alfred GmbH. Cap for liquid reservoirs, especially brake fluid reservoirs of master cylinders. 3,454,183, 7-8-69, Cl. 220-44.

Fuchser, Troy D.; and Sadler, James C., to Texas Instruments, Incorporated. Distributive manifold. 3,438,029, 4-8-69, Cl. 343-5.

Fudaley, Solly L., to R-F Controls, Inc. Capacitive proximity sensor. 3,445,835, 5-20-69, Cl. 340-258.

Fudemoto, Isao: *See—*
Kawashima, Masao; and Fudemoto, Isao,3,424,982.
Kawashima, Masao; and Fudemoto, Isao,3,452,288.
Kawashima, Masao; Fudemoto, Isao; and Tominori, Kiyoshi,3,483,323.

Fuechsel, Charles F., III: *See—*
Glass, Ronald; and Fuechsel, Charles F., III,3,420,940.

Fueg, Heinz: *See—*
Gehring, Albert; Schneller, Heinz; Fueg, Heinz; Haberthur, Kurt; and Matsuya, Koichi,3,484,214.

Fuehr, Ralph: *See—*
Ceyba, George A., 3,438,548.

Fuehrer, Reece R.; and Polak, James C., to United States of America, Army, mesne. Radial support structure for clutch hubs. 3,478,852, 11-18-69, Cl. 192-110.

Fuel Engineering: *See—*
Schmidt, James H.; and Hedstrom, Warren W., 3,452,810.
Schmidt, James H.; and Hedstrom, Warren W., 3,469,414.

Fuel Injection Engineering Company: *See*—
Hilborn, Stuart G., 3,473,523.
Fuel Research & Instrument Co.: *See*—
Jones, John E., Jr., 3,437,902.
Fuentes, Ferdinand, to Imperial-Eastman Corporation. Fitting. 3,471,181, 10-7-69, Cl. 285-341.
Fuentes, Gabriel, Jr. Concrete piles and methods and apparatus for forming and splicing them together. 3,449,918, 6-17-69, Cl. 61-56.
Fuentes, Manuel N.; and Cox, Duane Morley, to Thiokol Chemical Corporation. Rocket control. 3,465,966, 9-9-69, Cl. 239-265.17
Fuerer, Heini: *See*—
Daendliker, Gustav; and Fuerer, Heini,3,430,108.
Fuerst, Adolph: *See*—
Blake, Carl B.; and Fuerst, Adolph,3,484,342.
Fuerst, Bernard, to Benfur Engineering Company. Blasting machine blade formation for producing a divergent stream of abrasive. 3,436,867, 4-8-69, Cl. 51-9.
Fuerst, Edwin W.: *See*—
Mason, Robert B.; and Fuerst, Edwin W.,3,420,924.
Fuerst, Milton J., to Kimberly-Clark Corporation. Attachment means for wipe sheet material. 3,430,284, 3-4-69, Cl. 15-231.
Fuerst, Peter E., to General Electric Company. Abrasive resistant decorative laminates and method for making same. 3,445,327, 5-20-69, Cl. 161-264.
Fuerstenau, Maurice C.; and Peterson, Hal D., to Colorado School of Mines Foundation, Inc. Flotation method for the recovery of minerals. 3,438,494, 4-15-69, Cl. 209-166.
Fuessle, Klaus: *See*—
Mittag, Hermann; Ehrmann, Wilhelm; and Fuessle, Klaus,3,484,675.
Fugono, Takeshi: *See*—
Hori, Shiro; and Fugono, Takeshi,3,482,995.
Fuhlhage, Donald W., to Thompson-Hayward Chemical Company. Method of controlling pestiferous organisms. 3,465,081, 9-2-69, Cl. 424-309.
Fuhr, Hans, to Alpina-Werk Bovensiepen KG. Apparatus for joining heterogeneous materials such as paper or cardboard, employing thermoplastic foils and applying of pressure and heat. 3,484,324, 12-16-69, Cl. 156-515.
Fuhr, Herbert William, to Celanese Corporation. Shrink proof cellulosic fabric. 3,484,332, 12-16-69, Cl. 161-91.
Fuhrer, Walter, to Ciba Corporation. Process for the manufacture of phthalazines and phthalazones from α,α-chlorinated xylene compounds. 3,442,897, 5-6-69, Cl. 260-250.
Fuhriman, Harold W. Spool holder assembly. 3,464,648, 9-2-69, Cl. 242-139.
Fuhring, Heinrich; and Fleschhut, Richard, to Bowe, Bohler & Weber KG. Vehicle-washing installation. 3,466,688, 9-16-69, Cl. 15-21.
Fuhring, Heinrich; and Fleschhut, Richard, to Bowe Bohler & Weber KG, Maschinenfabrik. Apparatus for washing vehicles. 3,484,884, 12-23-69, Cl. 15-21.
Fuhring, Heinrich; and Petrich, Erwin, to Bowe Bohler & Weber K.G. Trouser-pressing apparatus. 3,425,141, 2-4-69, Cl. 38-21.
Fuhring, Heinrich; Wunderlich, Klaus; and Sieber, Johannes Helmut. Method and apparatus for the disinfection of textiles and other drycleanable articles during drycleaning. 3,459,490, 8-5-69, Cl. 8-142.
Fuhrman, Nathan; Gordon, Emanuel; and Holden, Robert B., to United States of America, Atomic Energy Commission. High loaded u]o$_2$-columbium cermets. 3,429,699, 2-25-69, Cl. 75-206.
Fuhrmann, Hans, to Bran & Lubbe. Radiation sensitive apparatus for the photometric analysis of liquids. 3,422,271, 1-14-69, Cl. 250-218.
Fuhrmann, Karl H., to Mann Mobel-und Einrichtungshauser KG. Transport device for furniture. 3,462,166, 8-19-69, Cl. 280-33.99
Fuhrmann, Robert; Sifniades, Stylianos; and Jerolamon, David, to Allied Chemical Corporation. Sulfochlorination of aliphatic compounds in a silent discharge. 3,458,419, 7-29-69, Cl. 204-174.
Fuhrmann, Robert; Sifniades, Stylianos; and Lazar, Emery C., to Allied Chemical Corporation. Silent discharge nitrosation of hydrocarbons. 3,464,905, 9-2-69, Cl. 204-168.
Fuji Chemical Industries, Ltd.: *See*—
Tsuruga, Masanori; Murakami, Shogo; Kondo, Katsutoshi; Akabane, Shunei; Washikita, Kenji; and Koshino, Tameo, 3,478,101.
Fuji Conveyor Kabushiki Kaisha: *See*—
Yoshimura, Toshio, 3,429,422.
Fuji Denki Kagaku Kabushiki Kaisha: *See*—
Hayase, Yoshio, 3,442,709.
Muraki, Ichiro; Tsuchida, Takashi; Shinoda, Kenichi; and Maruyam, Shoji, 3,442,716.
Fuji Iron & Steel Co., Ltd.: *See*—
Takahashi, Yoshikazu; Kojima, Koujiro; Kahata, Hisashi; and Iwasaki, Iwao, 3,453,101.
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi, 3,459,538.
Yanabu, Osamu; Hada, Takashi; and Doi, Kazuyuki, 3,479,162.
Fuji Kagaku Kogyo Kabushiki Kaisha: *See*—
Osaka, Matajiro; Uoda, Hidetaka; Horii, Shigeo; and Okuda, Minoru, 3,442,605.
Fuji Keiki Kabushiki Kaisha: *See*—
Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao, 3,434,277.
Fuji Kogyo Company Limited: *See*—
Ohmura, Ryuichi, 3,461,594.
Fuji Metal Manufacturing Co., Ltd.: *See*—
Ogawa, Susumu, 3,435,842.
Fuji Photo Film Co., Ltd.: *See*—
Chikamasa, Hiroshi; Hayashi, Nobuyuki; and Noguchi, Michio, 3,470,625.
Chikamasa, Hiroshi; and Aso, Kotaro, 3,476,363.
Ito, Yasumichi; Tuji, Akira; and Matano, Susumu, 3,482,757.
Ooue, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu, 3,480,365.
Tsunoda, Yoshimasa; Iwata, Hideo; Okada, Tsutomu; and Aso, Kotaro, 3,475,801.
Fuji Seiki Machine Works: *See*—
Kanazashi, Isao, 3,455,063.
Fuji Shashin Film Kabushiki Kaisha: *See*—
Akashi, Goro; and Fujiyama, Masaaki, 3,423,233.
Ariyasu, Kenji; and Tsuji, Akira, 3,458,033.
Fukuda, Susumu, 3,480,354.
Hayakawa, Yoshihide; Sakai, Takeo; and Nishio, Daijiro, 3,482,980.
Honjo, Satoru; and Nagai, Toshihiko, 3,433,951.
Imamiya, Hitoshi; Katayama, Shizuo; Matsukawa, Hiroharu; Kobayashi, Teruo; and Ishige, Sadao, 3,463,655.
Ishiwata, Mamoru, 3,425,951.
Kaneko, Keezi, 3,434,782.
Kawawada, Akiko, 3,467,245.
Kimura, Shiro; Ikeda, Teppei; Yamagishi, Kikuo; and Kobayashi, Teruo, 3,475,173.
Kondo, Hideo; Tsuji, Nobuo; Nishio, Fumihiko; and Mizuki, Eiichi, 3,449,123.
Kono, Yuichi; Matsumoto, Shigeru; and Yoshikawa, Masaru, 3,432,273.
Kozai, Katsuya, 3,485,690.
Kuroki, Motoharu; and Kato, Toshihiro;, 3,481,046.
Makino, Katsuo; and Sawato, Iwao, 3,475,552.
Misu, Hiroshi; and Yasuda, Yukio, 3,468,665.
Miyata, Michio, 3,482,982.
Nakajima, Yosuke; Nishio, Daijiro; and Watarai, Syu, 3,429,707.
Nishio, Fumihiko; Nakazawa, Yoshiyuki; and Nasu, Kintaro, 3,433,640.
Nishio, Fumihiko; and Nagao, Kameji, 3,441,413.
Nishio, Fumihiko; Nishio, Daijiro; Watarai, Syo; Hayakawa, Yoshihide; Kato, Kirotetu; and Udea, Hirozo, 3,445,231.
Obuchi, Kazuo; and Kato, Harunobu, 3,451,376.
Ohi, Reiichi; Ikeda, Teppei; and Hibino, Choji, 3,433,638.
Ohkubo, Kinji; and Noguchi, Junpei, 3,444,809.
Ohkubo, Kinji; and Honjo, Satoru, 3,473,923.
Okubo, Kinji; Honjo, Satoru; and Nagai, Toshihiko, 3,431,412.
Ooue, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu, 3,475,096.
Sato, Masamichi; Honjo, Satoru; and Takimoto, Masaaki, 3,476,659.
Shiba, Keisuke; and Hara, Hikoharu, 3,468,666.
Sugino, Tadashi; and Kaneko, Keiji, 3,484,056.
Sugiyama, Mitsunori; Nakajima, Yosuke; and Nagae, Tadashi, 3,420,668.
Tajima, Mataichi, 3,438,621.
Tajima, Mataichi; and Kimura, Tutomu, 3,462,221.
Takenaka, Haruo; Ooba, Seichi; Ikeda, Teppei; and Adachihara, Shynich, 3,475,193.
Terashima, Yahachi; and Yasuda, Yukio, 3,459,563.
Terashima, Yahachi; Yasuda, Yukio; and Sakai, Tadao, 3,481,742.
Tsuyama, Tomotsugu; and Tanaka, Yo, 3,480,357.
Yano, Yasushi; Ueno, Wataru; Nishio, Fumihiko; and Nakajima, Yosuke, 3,457,076.
Yasuda, Yukio, 3,476,560.
Yoshida, Makoto; Okumura, Akio; and Shiba, Keisuke, 3,459,552.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio, 3,469,986.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio, 3,481,741.
Fuji Spinning Company Limited: *See*—
Okamura, Hiroshi, 3,441,470.
Fuji Transport Industry Co., Ltd.: *See*—
Kishimoto, Akira, 3,475,980.
Fuji Tsushinki Seizo Kabushiki Kaisha: *See*—
Yanagihara, Kotaro; and Suzuki, Takenori, 3,463,698.
Fujie, Kunio, to Hitachi, Ltd. Heat exchanger. 3,473,603, 10-21-69, Cl. 165-122.

Fujihara, Teruhisa: *See—*
Kusama, Jun; Fujihara, Teruhisa; and Chihara, Yuzo,3,475,343.
Fujii, Chikaaki: *See—*
Fujii, Kiyoshi; Asogawa, Tatuo; Yamaguchi, Yoshio; Fujii, Chikaaki; Noguchi, Yukihide; and Funakoshi, Yoshiro,3,483,831.
Fujii, George R.: *See—*
Peterson, Richard G.; and Fujii, George R.,3,437,491.
Fujii, Hiroshi: *See—*
Oda, Ryohei; Fujii, Hiroshi; and Moriga, Hiroyuki,3,431,282.
Fujii, Kazutoshi: *See—*
Okada, Yoichi; Watanabe, Tsutomu; Hirai, Koji; and Fujii, Kazutoshi,3,484,351.
Fujii, Kiyoshi; Asogawa, Tatuo; Yamaguchi, Yoshio; Fujii, Chikaaki; Noguchi, Yukihide; and Funakoshi, Yoshiro, to Takeda Chemical Industries, Ltd. Rotary-type compact tablet making machine. 3,483,831, 12-16-69, Cl. 107-17.
Fujii, Mitsuo; Kumagai, Chitoku; Katagata, Zenji; and Inoue, Seiichi, to Fujikawa Paper Mfg. Co., Ltd. Apparatus for electrically perforating cigarette papers. 3,475,591, 10-28-69, Cl. 219-384.
Fujii, Rokuro: *See—*
Shindo, Akio; Fujii, Rokuro; and Souma, Isao,3,427,120.
Fujii, Saburo; and Yoshida, Masatoshi, to Toho Beslon Kabushiki Kaisha. Continuous solution-polymerization of acrylonitrile. 3,479,312, 11-18-69, Cl. 260-29.6
Fujii, Shoichiro: *See—*
Honjo, Mikio; Masuda, Toru; Imai, Kinichi; Fujii, Shoichiro; and Takanohashi, Kunio,3,423,399.
Fujii, Tadayoshi: *See—*
Namba, Yasuhiro; Kessoku, Kazuo; Fujii, Tadayoshi; Ogura, Toshinobu; and Yoshiyama, Ichiro,3,476,028.
Fujii, Tatsuo, to Nippon Kogaku K.K. Exposure measuring mechanism for a single lens reflex camera having interchangeable lenses. 3,461,783, 8-19-69, Cl. 95-10.
Fujikawa Paper Mfg. Co., Ltd.: *See—*
Fujii, Mitsuo; Kumagai, Chitoku; Katagata, Zenji; and Inoue, Seiichi, 3,475,591.
Fujiki, Akihiko: *See—*
Maki, Shin; Nishimura, Yoshihiro; and Fujiki, Akihiko,3,482,653.
Fujikura Cable Works, Ltd., The: *See—*
Isshiki, Setsuya, 3,472,692.
Takada, Toshihisa; Ishikawa, Hisao; Tado, Keishi; and Matsui, Yukio, 3,481,782.
Yamamoto, Takeo; and Yamamoto, Minoru, 3,453,373.
Fujikura Parachute Company, Ltd.: *See—*
Chiba, Takeshi, 3,459,151.
Chiba, Takeshi, 3,472,195.
Fujimori, Nobuyoshi: *See—*
Tanigawa, Shizuhiko; Yabuno, Yoshio; Nakamura, Koji; Makamura, Takuji; and Fujimori, Nobuyoshi,3,422,230.
Fujimoto, Calvin: *See—*
Peck, Bruce E.; and Fujimoto, Calvin,3,469,310.
Fujimoto, Einosuke: *See—*
Minekawa, Saburo; Yamaguchi, Koretaka; Toyomoto, Kazuo; Fujimoto, Einosuke; and Suzuki, Teruhiko,3,449,179.
Fujimoto, Katsuro: *See—*
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki,3,470,164.
Fujimoto, Kazuo, to Matsushita Electronics Corporation. Method for manufacturing semiconductor devices. 3,461,549, 8-19-69, Cl. 29-577.
Fujimoto, Keimei: *See—*
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,428,651.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,440,245.
Muramoto, Noboru; Fujimoto, Keimei; and Okuno, Yositosi,3,444,273.
Fujimoto, Masahiro; and Yamamoto, Toshiaki, to Victor Company of Japan, Limited. Device for diffusing sounds. 3,467,218, 9-16-69, Cl. 181-31.
Fujimoto, Nanabu: *See—*
Suminoto, Shinzaburo; Tokuyama, Kanji; Fujimoto, Nanabu; and Maeda, Takashi,3,455,925.
Fujimoto, Shinichiro. Percussion device in massager. 3,424,149, 1-28-69, Cl. 128-55.
Fujimoto, Yasuo, to Kyowa Hakko Kogyo Co., Ltd. Monothiophosphate ester catalysis for preparation of ribonucleoside derivatives. 3,451,997, 6-24-69, Cl. 260-211.5
Fujimoto, Yasuo; and Teransi, Masayuki, to Kyowa Hakko Kogyo Co., Ltd. Process of producing purine derivatives. 3,437,661, 4-8-69, Cl. 260-252.
Fujimura, Akira: *See—*
Iwamatsu, Mayuki; and Fujimura, Akira,3,432,014.
Fujimura, Hajime: *See—*
Senda, Shigeo; Fujimura, Hajime; and Izumi, Hiroshi,3,430,258.
Fujimura, Hiroshi: *See—*
Tanaka, Tsutomu; Tokuzumi, Tadaichi; and Fujimura, Hiroshi,3,449,309.
Fujimura, Tadato: *See—*
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko,3,439,410.
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko,3,439,858.
Hori, Masao; Fujimura, Tadato; Ohuchi, Yoshihiro; and Torigai, Kinichi,3,466,154.
Fujinaga, Motosaku, to Marifarms, Incorporated, mesne. Method of cultivation of penaeid shrimp. 3,477,406, 11-11-69, Cl. 119-2.
Fujinawa, Yutaka: *See—*
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; and Ikeda, Takeshi,3,431,336.
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; Ikeda, Takeshi; Nakajima, Eizo; and Kobatake, Takashi,3,452,129.
Fujino, Sadao: *See—*
Yamaya, Wataru; and Fujino, Sadao,3,454,552.
Fujio, Ryota: *See—*
Onishi, Akira; Ishikawa, Takao; Sakata, Ryozo; Fujio, Ryota; and Tsuruta, Teiji,3,467,624.
Fujioka, Richard T.; and Wooldridge, Gerald A. Foaming apparatus and method. 3,443,571, 5-13-69, Cl. 137-7.
Fujioka, Robert K.: *See—*
Ellsworth, Arthur W.; Fujioka, Robert K.; and Uyeda, Tim M.,3,431,871.
Fujisake, Harova: *See—*
Inose, Hiroshi; Fujisake, Harova; and Saito, Tadao,3,483,330.
Fujisawa, Kiyoshi: *See—*
Matsuoka, Shigeru; Fujisawa, Kiyoshi; Masai, Shohachi; and Asami, Atsumi,3,475,891.
Fujisawa, Minoru: *See—*
Yamamoto, Makoto; Fujisawa, Minoru; and Watanabe, Eiji,3,441,894.
Fujisawa Pharmaceutical Co., Ltd.: *See—*
Deguchi, Yoshio; Nojima, Hiroshi; and Kato, Naomichi, 3,454,595.
Hattori, Kiyoshi; and Atarashi, Sueo, 3,431,259.
Ohki, Sadao; and Kumada, Shigenobu, 3,483,294.
Takano, Tadayoshi; and Hattori, Kiyoshi, 3,453,272.
Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko, 3,428,648.
Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko, 3,487,089.
Fujishima, Akira: *See—*
Okuda, Makoto; and Fujishima, Akira,3,468,480.
Fujishima, Toshiyuki: *See—*
Nagashima, Shinichi; Ooka, Takayuki; Mimura, Hiroshi; and Fujishima, Toshiyuki,3,444,011.
Fujita, Akio: *See—*
Minami, Shinsaku; Fujita, Akio; Shimizu, Masanao; and Takase, Yoshiyuki,3,464,982.
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki,3,470,164.
Fujita, Hiroshi, to Yawata Welding Electrode Co., Ltd. Gravity type welder. 3,456,093, 7-15-69, Cl. 219-130.
Fujita, Hiroshi: *See—*
Kato, Kichiro; Fujita, Hiroshi; Toyama, Teruhiko; Kiyohisa, Yukio; Yoshimoto, Takeo; and Yanami, Tetsuo,3,454,392.
Fujita, Katsushiro, to Victor Company of Japan Limited. Speed control system for a hysteresis motor. 3,440,508, 4-22-69, Cl. 318-166.
Fujita, Kentaro: *See—*
Ueda, Keizo; Nagata, Koetsu; Fujita, Kentaro; and Iwamoto, Kazukiyo,3,425,091.
Fujita, Koji; Sato, Eisuke; and Moroe, Tatsuo, to Takasago Perfumery Company Limited. Method for the deodorization of bean milks. 3,460,950, 8-12-69, Cl. 99-64.
Fujita, Makoto; and Katsura, Kanichiro, to Nippon Kokan Kabushiki Kaisha, and Koshuha Netsuren Kabushiki Kaisha. Apparatus for producing wire of high tensile strength. 3,469,829, 9-30-69, Cl. 266-3.
Fujita, Norimasa: *See—*
Ishida, Shinichi; Sato, Kunio; Fujita, Norimasa; Fukuda, Hiromichi; Mori, Kyoichiro; and Kugler, Fritz,3,470,135.
Fujita, Saburo; and Kobashi, Uichiro, to Aisin Seiki Kabushiki Kaisha. Viscous oil flow hydrualic coupling. 3,430,743, 3-4-69, Cl. 192-58.
Fujita, Saburo; and Kobashi, Uichiro, to Aisin Seiki Company Limited. Controlled type fluid coupling. 3,463,282, 8-26-69, Cl. 192-58.
Fujita, Shigeru: *See—*
Shimamoto, Takatsugu; Hiyamuda, Shota; Fujita, Shigeru; Nozoe, Akihiko; Yamaguchi, Hiromi; and Eguchi, Jutaro,3,423,910.
Fujita, Shiro; and Maeda, Yutaka, to Nippon Rayon Co., Ltd. Heater for yarn twister. 3,449,898, 6-17-69, Cl. 57-34.
Fujita, Takehisa, to Nippon Conveyor Co., Ltd. Transport apparatus particularly for conveying personnel. 3,433,176, 3-18-69, Cl. 104-20.

Fujita, Teizo. Device for integrally securing a plurality of controlling apparatus casings together as a unit. 3,464,724, 9-2-69, Cl. 287-189.36

Fujita, Toshimichi: *See*—
Nakaguchi, Kohei; Kawasumi, Shohachi; Takagi, Kazumi; Fukuba, Kobo; Hirooka, Masaaki; and Fujita, Toshimichi,3,472,824.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Fujita, Toshimichi,3,478,002.

Fujita, Yoshimasa; Nakagawa, Kazumi; Shimoda, Keitaro; and Miyashita, Koji, to Japan Exlan Company Limited. Production of bulky products of acrylic composite fibers. 3,434,276, 3-25-69, Cl. 57-140.

Fujita, Yosisige: *See*—
Yasutake, Yoshito; and Fujita, Yosisige,3,458,279.
Yasutake, Yoshito; and Fujita, Yosisige,3,480,387.

Fujitsu Limited: *See*—
Hashimoto, Masao; Yamaguchi, Akira; and Nishimura, Hironobu, 3,445,811.
Inaba, Seiuemon; Shimizu, Kanryo; Shimajiri, Tokiji; and Yoshitake, Norito, 3,467,899.
Inaba, Seiuemon; Shirafuji, Ryoko; Kojima, Toshio; and Amemiya, Yoichi, 3,469,123.
Inaba, Seiuemon; and Ishihara, Yasumasa, 3,482,357.
Inaba, Seiuemon; Kojima, Toshio; and Amemiya, Yoichi, 3,483,406.
Ito, Yukio; and Komizo, Hidemitsu, 3,421,122.
Katori, Kaichiro; and Kamiyama, Shinichi, 3,442,634.
Kawashima, Masao; and Fudemoto, Isao, 3,424,982.
Kawashima, Masao; and Katagiri, Yushi, 3,428,886.
Kawashima, Masao; Sakai, Masakatsu; and Kobayashi, Toshio, 3,432,683.
Kawashima, Masao; and Higeta, Tsukumo, 3,437,760.
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshnio, Maroshi, 3,437,839.
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshino, Maroshi, 3,441,750.
Kawashima, Masao; and Fudemoto, Isao, 3,452,288.
Kawashima, Masao; Higeta, Tsukumo; and Kakehi, Gen, 3,467,913.
Kawashima, Masao; Fudemoto, Isao; and Tominori, Kiyoshi, 3,483,323.
Kiyasu, Zen'iti; and Kawashima, Masao, 3,484,779.
Kudo, Tetsuo; Nakamura, Kazuo; Ogita, Teisuke; and Sudo, Yozo, 3,439,301.
Kusano, Masayuki, 3,431,521.
Maeda, Kazuo, 3,428,500.
Maeda, Kazuo; and Sato, Junzi, 3,484,302.
Matsuzaki, Hiroyuki; Shimizu, Shokichi; and Mizuo, Masahiko, 3,445,210.
Miyata, Jiro, 3,462,618.
Namikata, Takeshi; and Kubo, Kazuo, 3,477,929.
Nishioka, Hideya, 3,427,591.
Oiso, Mitsuo, 3,437,854.
Owaki, Kenichi; and Nakayama, Norihiko, 3,454,824.
Sakai, Sukeyoshi, 3,487,385.
Seno, Kenji; Nozawa, Koichi; Tanaka, Nobuyuki; and Kikuchi, Hideyuki, 3,431,403.
Shimizu, Kanryo; Shimajiri, Tokiji; and Hashimoto, Yoshihiro, 3,457,484.
Shimizu, Kanryo; Yoshitake, Norito; and Kobayashi, Kengo, 3,467,902.
Shinoda, Masaichi, 3,436,280.
Shinoda, Masaichi, 3,439,290.
Sugimoto, Tadashi, 3,442,206.
Takada, Yuji; and Ogawa, Katsumasa, 3,482,048.
Terasaka, Junichi, 3,459,897.
Togino, Kazuto, 3,453,051.
Tomono, Haruki, 3,469,192.
Yasufuku, Matami, 3,458,367.
Yoshitake, Norito; Hashimoto, Yoshihiro; and Kobayashi, Kengo, 3,430,121.

Fujitsubo, William S., to General Motors Corporation. Multi-aperture core connector. 3,456,245, 7-15-69, Cl. 340-174.

Fujitsubo, William S.; and Knopf, Frank A., to General Motors Corporation. Accelerometer calibration method. 3,470,730, 10-7-69, Cl. 73-1.

Fujiura, Masumi: *See*—
Shinkai, Akihiro; Fujiura, Masumi; and Yonezawa, Tooru,3,458,900.

Fujiwara, Goro; Oda, Takeshi; Todo, Nobuyoshi; and Yajima, Yukio, to Kanematsu Woollen Mills Ltd., and Takuma Boiler Mfg., Co., Ltd. Disposal of wool rinsings. 3,436,342, 4-1-69, Cl. 210-21.

Fujiwara, Hisashi: *See*—
Suzuki, Hirofumi; Koike, Michiharu; and Fujiwara, Hisashi,3,440,468.

Fujiwara, Kaisaku, to Hitachi, Ltd. Tape supply system. 3,436,003, 4-1-69, Cl. 226-97.

Fujiwara, Katsuji. Disk-type steam trap having movable bimetallic element. 3,467,309, 9-16-69, Cl. 236-59.

Fujiwara, Kenji: *See*—
Kushihashi, Akira; and Fujiwara, Kenji,3,484,263.

Fujiwara, Shinobu: *See*—
Hayashi, Shigekazu; Kobayashi, Sadao; and Fujiwara, Shinobu,3,431,124.

Fujiwara, Shinobu, to TDK Electronics Company, Limited. Ceramic dielectrics. 3,468,680, 9-23-69, Cl. 106-39.

Fujiwara, Shinobu; and Shiraiwa, Takao, to TDK Electronics Company, Limited. Ceramic dielectrics. 3,427,173, 2-11-69, Cl. 106-39.

Fujiwara, Shinobu; and Shiraiwa, Takao, to TDK Electronics Company, Limited. Ceramic dielectrics. 3,440,067, 4-22-69, Cl. 106-39.

Fujiwara, Teruhisa: *See*—
Kusama, Jun; Fujiwara, Teruhisa; and Chihara, Yuzo,3,455,876.

Fujiwara, Toshimasa: *See*—
Kaneko, Kansaku; Fujiwara, Toshimasa; Samuta, Osamu; Miyasaka, Takao; and Kitamura, Kenichi,3,458,740.
Kaneko, Kansaku; Fujiwara, Toshimasa; and Asada, Fumio,3,487,248.

Fujiya Confectionery Co., Ltd.: *See*—
Gotsuji, Takeo, 3,484,257.

Fujiyama, Masaaki: *See*—
Akashi, Goro; and Fujiyama, Masaaki,3,423,233.

Fujiyama, Susumu: *See*—
Igarashi, Yukio; Komatsu, Makoto; Fujiyama, Susumu; and Okamoto, Kazuo,3,432,556.

Fukada, Joji; Akatsu, Seiji; Sugahara, Mitsuaki; Kurita, Yoshiji; and Kawabe, Naoshi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Parallel-flow pneumatic-conveying drying. 3,464,121, 9-2-69, Cl. 34-10.

Fukada, Shuzo; Kido, Takayoshi; and Hurutate, Hirotugu, to Sanyo Electric Co., Ltd. Microwave heating apparatus and method. 3,470,942, 10-7-69, Cl. 165-2.

Fukase, Yukishige: *See*—
Kawahata, Masao; Fukase, Yukishige; and Osozawa, Koichiro,3,438,769.
Kawahata, Masao; Yokota, Kozou; Fukase, Yukishige; and Katoh, Shoichi,3,420,660.

Fukata, Yasuo: *See*—
Oshima, Shintaro; Nakagome, Yukio; and Fukata, Yasuo,3,476,878.

Fukatsu, Motonori: *See*—
Iwai, Katsuyuki; Fukatsu, Motonori; and Atsumi, Katsuya,3,465,098.
Iwai, Katsuyuki; Fukatsu, Motonori; and Sato, Fujio,3,483,318.

Fukatsu, Tamotsu: *See*—
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji,3,440,035.

Fukawa, Kaneo, to General Co., Ltd. Heat-sensitive copy-sheet. 3,442,682, 5-6-69, Cl. 117-36.8

Fukiage, Shinsuke: *See*—
Yoshida, Kazuo; and Fukiage, Shinsuke,3,459,964.

Fuksiewicz, Edmund, to Instytut Badan Jadrowych. Arc plasma torch with same liquid cooling means for electrodes. 3,463,957, 8-26-69, Cl. 313-32.

Fukuba, Kobo: *See*—
Nakaguchi, Kohei; Kawasumi, Shohachi; Takagi, Kazumi; Fukuba, Kobo; Hirooka, Masaaki; and Fujita, Toshimichi,3,472,824.

Fukuchi, Kiyoshi: *See*—
Yoshioka, Tomoaki; and Fukuchi, Kiyoshi,3,486,396.

Fukuda, Ayao, to Matsushita Electric Industrial Co., Ltd. Automatic speed change device for record players. 3,485,499, 12-23-69, Cl. 274-9.

Fukuda, Hiromichi: *See*—
Ishida, Shin'ichi; Kato, Toshio; Kurihara, Masakazu; Takahashi, Yasunobu; and Fukuda, Hiromichi,3,462,394.
Ishida, Shinichi; Sato, Kunio; Fujita, Norimasa; Fukuda, Hiromichi; Mori, Kyoichiro; and Kugler, Fritz,3,470,135.

Fukuda, Horomichi: *See*—
Ishida, Shinichi; Fukuda, Horomichi; and Saito, Shizuko,3,457,233.

Fukuda, Jun-Ichi; Tashiro, Kijuro; Yamamoto, Akira; and Katsuyama, Akihiko. Process for preparing a polymer. 3,457,244, 7-22-69, Cl. 260-80.78

Fukuda, Kiyo: *See*—
Murai, Korenori; Fukuda, Kiyo; Saotome, Kenji; and Sato, Shigetake,3,454,504.
Yokota, Ryosuke; Nakajima, Saburo; Fukui, Toshio; and Fukuda, Kiyoshi,3,463,664.

Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L., to Sinclair Research, Inc.Process for activating a fuel cell by discharging from about 0.05 to 10 ma./ cm^2. 3,458,359, 7-29-69, Cl. 136-86.

Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L., to Atlantic Richfield Company. Process for the preparation of a fuel electrode for a fuel cell. 3,470,031, 9-30-69, Cl. 136-120.

Fukuda, Masataro; Hirai, Taketsugu; Hino, Takashi; Shiramoto, Tomizo; Sawada, Isoo; and Yanagihara, Nobuyuki, to Matsushita

Electric Industrial Co., Ltd. Fuel cell systems. 3,443,999, 5-13-69, Cl. 136d86.

Fukuda, Mitsugu: *See—*
Kurokawa, Takaai; and Fukuda, Mitsugu,3,446,275.

Fukuda, Nobuo; Shimizu, Mineo; Matsukura, Kameo; and Ando, Narumi, to Yawata Iron & Steel Co., Ltd. Process for the production of very low carbon- containing cold-rolled steel strips. 3,420,718, 1-7-69, Cl. 148-12.1

Fukuda, Susumu, to Fuji Shashin Film Kabushiki Kaisha. Automatic magazine changing type projector with automatic rewinding means. 3,480,354, 11-25-69, Cl. 352-123.

Fukuda, Tomiichi, to Sumitomo Chemical Company, Ltd. Porous polyolefin gauze. 3,446,208, 5-27-69, Cl. 128-156.

Fukuda, Wataru: *See—*
Hiraiwa, Masumi; Takahasi, Tadasi; and Fukuda, Wataru,3,459,650.

Fukuda, Yuh: *See—*
Kubota, Hiroyuki; Mimino, Tohru; Fukuda, Yuh; Ishizu, Yoshio; and Nago, Toshio,3,443,934.

Fukui, Hiroshi, to NGK Insulators, Ltd. Method for producing porcelain suitable for insulator. 3,431,126, 3-4-69, Cl. 106-46.

Fukui, Katuyuki, to Shinyei Co., Incorporated. Method of manufacturing elemental part for dry type electrolytic condenser. 3,471,378, 10-7-69, Cl. 204-38.

Fukui, Kazuyoshi: *See—*
Ohsaki, Iwao; Fukui, Kazuyoshi; and Kitamura, Shinzo,3,459,386.

Fukui, Kenichi; Kagiya, Tsutomu; Narisawa, Shizuo; Maeda, Taneo; and Kobata, Mikio, to Sumitomo Chemical Company, Ltd. Process for producing novel polyester amides. 3,476,712, 11-4-69, Cl. 260-78.

Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; and Horie, Misato, to Sumitomo Chemical Company, Ltd., and Seitetsu Kagaku Co., Ltd. Process for polymerizing an epoxy compound in the presence of carbon dioxide. 3,466,251, 9-9-69, Cl. 260-2.

Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; Toriuchi, Yahiko; and Matsumi, Shunji, to Sumitomo Atomic Energy Industries Ltd. Process for producing high molecular weight polymer of formaldehyde. 3,446,776, 5-27-69, Cl. 260-67.

Fukui, Kiyoshi: *See—*
Mashio, Fujio; and Fukui, Kiyoshi,3,458,349.

Fukui, Kiyotake: *See—*
Takezaki, Tsuneo; Kuroda, Ekiji; and Fukui, Kiyotake,3,447,087.

Fukui, Saburo; and Yamamoto, Masato, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of electrolytically descaling and pickling steel. 3,429,792, 2-25-69, Cl. 204-145.

Fukui, Shoshin: *See—*
Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Shoshin; Kato, Takahisa; and Nagai, Masayuki,3,457,247.

Fukui, Takasuke: *See—*
Oshima, Shintaro; Futami, Kakuo; Fukui, Takasuke; Kamibayashi, Tetsusaburo; and Komazawa, Yoshihisa,3,441,494.

Fukui, Toshio: *See—*
Yokota, Ryosuke; Nakajima, Saburo; Fukui, Toshio; and Fukuda, Kiyoshi,3,463,664.

Fukuma, Noboru: *See—*
Kihara, Toshihiko; Jono, Kazuo; and Fukuma, Noboru,3,422,491.

Fukumitsu, Minoru: *See—*
Teshima, Minoru, 3,482,268.

Fukumoto, Juichiro; and Yamamoto, Takehiko, to Toyo Boseki Kabushiki Kaisha. Preparation of uricase. 3,431,176, 3-4-69, Cl. 195-66.

Fukunaga, Akio. Force transducer structures and fabricating methods. 3,438,249, 4-15-69, Cl. 73-88.5

Fukunaga, Mitsuo: *See—*
Nakahara, Teiji; Fukunaga, Mitsuo; and Yamashita, Toshiyuki,3,445,998.

Fukunaga, Togo: *See—*
Nakashima, Hirotaka; Maeda, Katsunosuke; Fukunaga, Togo; Suzuki, Satoru; and Matsuoka, Kenichiro,3,468,121.

Fukunaga, Tsuyoshi: *See—*
Yoshida, Muneo; Inoue, Masaru; Fukunaga, Tsuyoshi; Oguchi, Heikichi; and Shioya, Koichi,3,437,997.

Fukunaga, Yoshiaki: *See—*
Morimoto, Toshio; and Fukunaga, Yoshiaki,3,472,464.

Fukuoka, Isamu. Device for driving vertical slat venetian blind. 3,455,364, 7-15-69, Cl. 160-172.

Fukuoka, Shigetada; and Kimura, Shuji, to Nippon Kogaku K.K. Electrically driven automatic winding means. 3,470,803, 10-7-69, Cl. 95-31.

Fukuoka, Tatuo. Sandals. 3,468,040, 9-23-69, Cl. 36-11.5

Fukuoka, Tokuji: *See—*
Watanabe, Jun; Arakawa, Soji; and Fukuoka, Tokuji,3,443,986.

Fukuoka, Yoshihiko: *See—*
Otani, Sugio; Fukuoka, Yoshihiko; Igarashi, Bunjiro; and Sasaki, Kesao,3,461,082.

Fukuoka, Yukio; Kusayama, Senji; and Suzuki, Mamoru, to Sumitomo Chemical Company, Ltd. Anaerobic curable compositions. 3,457,212, 7-22-69, Cl. 260-31.4

Fukushima, Kuniaki, to Yawata Welding Electrode Co., Ltd. Semiautomatic welding machine. 3,445,623, 5-20-69, Cl. 219-130.

Fukushima, Masao: *See—*
Yano, Nobumitsu; Fukushima, Masao; Satou, Terumasa; and Senoh, Saburo,3,457,254.

Fukushima, Osamu; Hayanami, Hiroshi; and Nagoshi, Kazuo, to Kurashiki Rayon Co., Ltd. Method for manufacturing synthetic leather. 3,424,604, 1-28-69, Cl. 117-11.

Fukushima, Osamu; Nagoshi, Kazuo; and Noda, Kazuo, to Kurashiki Rayon Co., Ltd. Process for production of sheet materials. 3,483,283, 12-9-69, Cl. 264-49.

Fukushima, Osamu; Noda, Kazuo; Kishida, Tamon; and Ochi, Toshiharu, to Kurashiki Rayon Co., Ltd. Method for production of poromeric fibrous sheet materials. 3,483,015, 12-9-69, Cl. 117-63.

Fukushima, Yoshio, to Kabushiki Kaisha Ricoh. Shutter for photographic cameras. 3,420,153, 1-7-69, Cl. 95-59.

Fukushima, Yoshio, to Kabushiki Kaisha Ricoh. Electric shutter for use in photographic cameras. 3,435,745, 4-1-69, Cl. 95-53.

Fukushima, Yoshio, to Kabushiki Kaisha Ricoh. Electric shutter for photographic devices. 3,486,428, 12-30-69, Cl. 95-10.

Fukuta, Kenji; and Watanabe, Yoshiyuki, to Agency of Industrial Science and Technology Ministry of International Trade & Industry. Spinning method and apparatus. 3,440,811, 4-29-69, Cl. 57-58.89

Fukuyama, Yasuo, to Yamauchi Rubber Industry Co., Ltd. Mold assembly for making a polymer-sleeved roll. 3,453,692, 7-8-69, Cl. 18-39.

Fukuyo, Hitohiro; and Tabuchi, Norio, to Kabushiki Kaisha Nattori Tokeiten. Low frequency piezolectric crystal oscillator having a single driving circuit. 3,435,368, 3-25-69, Cl. 331-37.

Fukuzuka, Toshio; and Miyashiro, Masao, to Kobe Steel, Ltd. Electrolytic surface treatment of metals. 3,486,990, 12-30-69, Cl. 204-56.

Fuld, Jerome R., to Sperry Rand Corporation. Ribbon supply unit. 3,425,531, 2-4-69, Cl. 197-151.

Fulenwider, John E., to Automatic Electric Laboratories, Inc. Information storage matrix utilizing electret. 3,445,824, 5-20-69, Cl. 340-173.

Fulford Manufacturing Company: *See—*
Paynor, Melvin, 3,452,405.

Fulgenzi, Crescenzo F., to Union Carbide Corporation. Die casting apparatus. 3,469,621, 9-30-69, Cl. 164-316.

Fulgenzi, Crescenzo F.; Law, James B.; and Lerch, Peter A., to Union Carbide Corporation. Die casting apparatus. 3,467,171, 9-16-69, Cl. 164-316.

Fulghum, Roland A., to Strecton Industries, Incorporated. Closure fitting for drums. 3,424,481, 1-28-69, Cl. 285-162.

Fulginiti, William P.; and Yu, Quin Shen, to United States Steel Corporation. Apparatus for separating a plurality of bars. 3,471,039, 10-7-69, Cl. 214-8.5

Fulkerson, Robert D., to Butler Manufacturing Company. Method of cutting panels. 3,474,655, 10-28-69, Cl. 72-327.

Fulks, James K.: *See—*
Klomp, Alfred W., 3,423,879.

Fulks, James K., to Colonial Broach & Machine Company. Broaching apparatus having automatic tool changing means. 3,431,633, 3-11-69, Cl. 29-568.

Fulks, James K., to Colonial Broach & Machine Company. Vertical broaching machine. 3,472,123, 10-14-69, Cl. 90-95.

Fuller, Chester A.: *See—*
Anderegg, John S., Jr.; and Fuller, Chester A.,3,482,106.

Fuller Company: *See—*
Decker, Erwin L., 3,485,192.
Detweiler, Meade H., 3,422,877.
Johnson, Bernard A.; Adamski, Max, Jr.; and Lichodziejewski, Wieslaw L., 3,457,791.
Kayatz, Karl-Heinz, 3,449,842.
King, Robert S., 3,474,032.
Richter, Philip, 3,421,471.
Schmidt-Holthausen, Hans-Joachim; and Backsen, Hermann, 3,462,130.

Fuller, David L. Shutter-aperture mechanism for camera. 3,455,226, 7-15-69, Cl. 95-56.

Fuller, Edwin Russell; and Slark, Norman Arthur, to English Electric Valve Company Limited. Television and like camera cathode ray tubes with damped target structures. 3,461,336, 8-12-69, Cl. 313-269.

Fuller, Forney. Ocean pipeline system. 3,425,453, 2-4-69, Cl. 138-111.

Fuller, Forrest E.; and Irwin, Wilfred W., to Robbins & Myers, Inc. Brush retainer assembly. 3,445,705, 5-20-69, Cl. 310-247.

Fuller, George W., to King-Seeley Thermos Co. Insulated lunch kit. 3,426,889, 2-11-69, Cl. 206-4.

Fuller, George, to Imperial Smelting Corporation (N.S.C.) Limited. Process for the preparation of fluoro- aromatic heterocyclic compounds. 3,485,839, 12-23-69, Cl. 260-251.

Fuller, Gordon W.: *See—*
Fuller, John C.; Fuller, Gordon W.; Fuller, Ralph A.; and Fuller, William I.,3,448,520.
Fuller, Harrison W., to Laboratory for Electronics, Inc., mesne. High capacity data processing techniques. 3,438,010, 4-8-69, Cl. 340-174.
Fuller, Harrison W.; McCormack, Thomas Leo; Aghassi, Badri Munir; and Morley, Richard E., to Cambridge Memory Systems, Inc., mesne. Method of fabricating magnetic core memory planes. 3,436,814, 4-8-69, Cl. 29-604.
Fuller, John C. Method of inhibiting the leakage of air from pneumatic tire assemblies and similar structures. 3,449,155, 6-10-69, Cl. 117-95.
Fuller, John C.; Fuller, Gordon W.; Fuller, Ralph A.; and Fuller, William I. Apparatus for venting pneumatic tires. 3,448,520, 6-10-69, Cl. 30-361.
Fuller, John Rodney Dyson: *See—*
Gardiner, Terence Edward Gouvenot; and Fuller, John Rodney Dyson,3,433,244.
Fuller Laboratories, Inc.: *See—*
Gustafson, Harry C., 3,443,562.
Fuller, Leonard H. Tire valve assembly. 3,426,787, 2-11-69, Cl. 137-226.
Fuller, Norris R., to Booth, Jack J. Slush beverage machine. 3,474,821, 10-28-69, Cl. 137-390.
Fuller, Ralph A.; and Snodgrass, Earl D., to Waterman, Herrick. Packing apparatus. 3,475,877, 11-4-69, Cl. 53-26.
Fuller, Ralph A.; and Snodgrass, Earl D., to Waterman, Herrick, and. Carton handling machine. 3,476,023, 11-4-69, Cl. 93-39.1
Fuller, Ralph A.: *See—*
Fuller, John C.; Fuller, Gordon W.; Fuller, Ralph A.; and Fuller, William I.,3,448,520.
Fuller, Richard E., to Allied Chemical Corporation. Defoliant compositions. 3,440,034, 4-22-69, Cl. 71-70.
Fuller, Richard H.; Tu, Ju C.; and Worthy, Robert M., to General Precision Systems Inc. Data processing system. 3,435,423, 3-25-69, Cl. 340-172.5
Fuller, Richard H.: *See—*
Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M.,3,444,533.
Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M.,3,453,445.
Fuller, Robert A., to Emhart Corporation. Glassware annealing lehr having individual modules with self-contained air recirculating means. 3,463,465, 8-26-69, Cl. 263-8.
Fuller, Robin Walter Ellecker: *See—*
McCann, John David; and Fuller, Robin Walter Ellecker,3,479,551.
Fuller, Samuel H., Jr.: *See—*
Coordes, John E.; and Fuller, Samuel H., Jr.,3,444,945.
Fuller, Sue. Technique for producing string compositions. 3,451,879, 6-24-69, Cl. 161-5.
Fuller, Thaddeus W., to Fairbanks Morse Inc. Multistage hydraulic pump having improved diffuser means. 3,438,329, 4-15-69, Cl. 103-102.
Fuller, Willard A., to Hooker Chemical Corporation. Method of production chlorine dioxide and sodium sulfate. 3,446,584, 5-27-69, Cl. 23-121.
Fuller, William F., to United States of America, Army. Fluid injector, self-compensating for lateral acceleration. 3,447,326, 6-3-69, Cl. 60-251.
Fuller, William I.: *See—*
Fuller, John C.; Fuller, Gordon W.; Fuller, Ralph A.; and Fuller, William I.,3,448,520.
Fulling, Wolfgang; and Ambrosius, Manfred, to Bremshey & Co. Vehicle seat having spring suspension and damping. 3,423,060, 1-21-69, Cl. 248-399.
Fullton, James M., Jr., to Western Electric Company, Incorporated. Circuit for detecting a register malfunction. 3,470,364, 9-30-69, Cl. 235-153.
Fulmakht, Veniamin Veniaminovich: *See—*
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.
Fulmer, Keith H., to Bendix Corporation, The. Reaction means for hydraulic control valve. 3,469,890, 9-30-69, Cl. 303-52.
Fulmer, Keith H., to Bendix Corporation, The. Pump control means. 3,473,473, 10-21-69, Cl. 103-41.
Fulmini, Sergio: *See—*
Siclari, Francesco; and Fulmini, Sergio,3,469,618.
Fulop, Charles. Power operated, predetermined torque release, bolt driver. 3,442,360, 5-6-69, Cl. 192-56.
Fulop, Walter; and de Bellini, Paul Charles Maria, to International Standard Electric Corporation. Modulating device having a curved PN-junction. 3,454,843, 7-8-69, Cl. 317-235.
Fulper, John H. Holder for christmas tree or the like. 3,484,067, 12-16-69, Cl. 248-44.
Fulsebakke, Kristian M. Collapsible enclosure. 3,486,513, 12-30-69, Cl. 135-1.
Fulton Company, The: *See—*
Hinrichsen, Hans V., 3,474,997.
Fulton, Forrest F., Jr., to Lockheed Aircraft Corporation. Receiver for receiving nonorthogonal multiplexed signals. 3,456,195, 7-15-69, Cl. 325-323.
Fulton, Fred D., to Kimton, Inc. Display case cornerpost. 3,477,182, 11-11-69, Cl. 52-28.
Fulton, Howard A.; and Flinner, Vaughn D., to Mansfield Sanitary, Inc. Adjustable flange for a sillcock. 3,466,064, 9-9-69, Cl. 285-192.
Fulton, Howard A.; Flinner, Vaughn D.; and Sprang, Richard W., to Mansfield Sanitary Inc. Single lever faucet construction. 3,421,540, 1-14-69, Cl. 137-454.6
Fulton, James F. Booth with a rotatable door and seat. 3,427,768, 2-18-69, Cl. 52-36.
Fulton, Walter B.; and Wickenhauser, Leonard J., to Central Oil Company. Cyclic secondary oil recovery process. 3,442,331, 5-6-69, Cl. 166- 263.
Fultz, Jack V.; and Mines, Ronald E., to North American Rockwell Corporation. Vibration overstress protection system. 3,462,999, 8-26-69, Cl. 73-71.6
Fultz, Palmer: *See—*
Vogel, Arthur E.; and Fultz, Palmer,3,480,288.
Vogel, Arthur E.; and Fultz, Palmer,3,480,293.
Fultz, Russell E.: *See—*
Trogdon, Thomas; and Fultz, Russell E.,3,423,490.
Fumat, Joseph, to Societe des Mecaniques Verdol. Heddle frame actuating gearing for looms. 3,468,347, 9-23-69, Cl. 139-66.
Fumea, Harry J., Jr.; and Leech, Robert W., Jr., to Westinghouse Electric Corporation. Tunnel diode logarithmic amplifier. 3,486,039, 12-23-69, Cl. 307-230.
Fumia, Arthur, Jr.; Heseltine, Donald W.; and Brooker, Leslie G. S., to Eastman Kodak Company. Carbocyanine filter dyes and sensitizers for silver halide emulsions. 3,482,978, 12-9-69, Cl. 96-84.
Fumoto, Syozo: *See—*
Kometani, Yutaka; Koizumi, Shun; Fumoto, Syozo; Tanigawa, Singo; and Nakajima, Takeaki,3,462,401.
Funahashi, Muneaki: *See—*
Matsui, Isamu; Miyagi, Tamotsu; and Funahashi, Muneaki,3,480,215.
Funahashi, Takaji. Revolving stamp. 3,421,437, 1-14-69, Cl. 101-106.
Funahashi, Takaji. Rubber stamp. 3,442,209, 5-6-69, Cl. 101-327.
Funahashi, Takaji. Multicolor rubber stamp. 3,478,682, 11-18-69, Cl. 101-327.
Funahashi, Takaji. Writing instrument. 3,479,122, 11-18-69, Cl. 401-199.
Funakoshi, Yoshiro: *See—*
Fujii, Kiyoshi; Asogawa, Tatuo; Yamaguchi, Yoshio; Fujii, Chikaaki; Noguchi, Yukihide; and Funakoshi, Yoshiro,3,483,831.
Funari, Thomas J. Stump splitter. 3,461,927, 8-19-69, Cl. 144-2.
Funatsu, Makoto; and Torimae, Yasuhiro, to Kao Soap Co., Ltd. Method of making synthetic resins antistatic and antistatic agent composition therefor. 3,445,396, 5-20-69, Cl. 260-92.8
Funck, Herbert, to AGFA-Gevaert Aktiengesellschaft. Motion picture camera employing coaxial reels. 3,475,089, 10-28-69, Cl. 352-156.
Fundamental Research Company: *See—*
Look, Melvin; Padgett, Weldon M., II; Hyman, Julius; Fenyes, Joseph G. E.; and Lee, Herbert P. C., 3,480,646.
Funfstuck, Horst, to Statham Instruments Inc. Programming system. 3,456,173, 7-15-69, Cl. 318-18.
Fung, Frederick S. T.; and Doughty, Randall H. Laminated article with decorative dots dispersed therethrough. 3,451,878, 6-24-69, Cl. 161-5.
Funk, Andrew B.; Legal, Casimer C., Jr.; and Richmond, Alvin, to Grace, W. R., & Co. Method for preparing a slurry fertilizer. 3,421,879, 1-14-69, Cl. 71-64.
Funk, Edwin C.: *See—*
Kane, John L.; Mattern, Edward E.; and Funk, Edwin C.,3,452,400.
Funk, Elmer R. Plural lateral conveyor attachment for road grader. 3,451,148, 6-24-69, Cl. 37-110.
Funk, Floyd S.; Roundtree, Grover L.; and West, Joe E. Bar tying machine. 3,477,351, 11-11-69, Cl. 94-39.
Funk, Smith A.; Klasen, Charles J.; and Malone, James J., Jr., to Celotex Corporation, The, mesne. Roofing system. 3,483,664, 12-16-69, Cl. 52-309.
Funk, Wilmer E.; Koch, Gerald B.; and Yocum, Ralph W., to Caterpillar Tractor Company. Friction welding internally bored members. 3,442,431, 5-6-69, Cl. 228-2.
Funk, Wilmer E.; and Martin, Eugene R., to Caterpillar Tractor Company. Multidrive for bonding machine. 3,450,325, 6-17-69, Cl. 228-2.
Funke, Siegfried: *See—*
Thies, Peter Willibrord; Kucaba, Walter; and Funke, Siegfried,3,422,090.
Funkhauser, James B.: *See—*
Forrer, Homer W.; and Funkhauser, James B.,3,424,301.

Funkhouser, James B.: *See—*
Stout, James T., Sr.; and Funkhouser, James B.,3,421,684.
Funkhouser, John G.: *See—*
Herman, Charles O.; and Funkhouser, John G.,3,428,566.
Funt, Boris Lionel. Process for the control of anionic polymerization by regulation of the charge transferred during electrolysis of solutions. 3,448,020, 6-3-69, Cl. 204-72.
Fuog, Jack C.: *See—*
Labore, Walter T.; and Fuog, Jack C.,3,468,388.
Fuqua, Lloyd T., to General Motors Corporation. Turn signal switch construction. 3,431,373, 3-4-69, Cl. 200-61.34
Fuqua, Norman L., to Westinghouse Electric Corporation. Air operated single cup coffee brewer. 3,478,670, 11-18-69, Cl. 99-283.
Fuqua, Norman L., to Westinghouse Electric Corporation. Pressurizer apparatus for an air operated coffee brewer. 3,478,672, 11-18-69, Cl. 99-302.
Fuqua, Norman L.; and Ambrose, John J., to Westinghouse Electric Corporation. Timing arrangement for an air operated coffee brewer. 3,478,671, 11-18-69, Cl. 99-283.
Furane Plastics Incorporated: *See—*
Delmonte, John; and Meadows, Paul L., 3,428,725.
Furar, Frank A.: *See—*
Barrett, Edward L., 3,464,106.
Furbeck, Warren R.: *See—*
Lee, Charles A.; and Furbeck, Warren R.,3,459,612.
Lee, Charles A.; and Furbeck, Warren R.,3,486,956.
Furer, Frieder S.: *See—*
Kahn, Donald J.; Furer, Frieder S.; and Robbins, Max L.,3,451,931.
Furey, James T.: *See—*
Rairden, John R., III; and Furey, James T.,3,432,416.
Furey, Michael J.; and Turbak, Albin F., to Esso Research and Engineering Company. Diester lubricity additives and oleophilic liquids containing the same. 3,429,817, 2-25-69, Cl. 252-56.
Furgason, Carl M.; and Eckenrod, Carl J., to U.S. Industries, Inc., mesne. Laminated packer. 3,464,709, 9-2-69, Cl. 277-213.
Furkert, Herbert; Mahler, Friedrich; Peters, Heinrich; and Stauffer, Adolf, to Zieren, A. Dr. GmbH, Firma Chemiebau. Catalytic method for the recovery of sulphuric acid in a plurality of contact- and absorption steps. 3,443,896, 5-13-69, Cl. 23-168.
Furlanetto, Leopoldo, to La Soudure Electrique Autogene Procedes Arcos. Manufacture of welding electrodes. 3,461,494, 8-19-69, Cl. 18-12.
Furlani, John J., to United States of America, Army. Thermosensitive delayed action means for ordnance missiles. 3,421,443, 1-14-69, Cl. 102-85.
Furlenmeier, Andre: *See—*
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf,3,478,065.
Furlong, Donn B.; Hallett, Glenn F.; and Kane, Warren F., to Fluor Products Company, Inc. Splash directing fill for cooling towers. 3,468,521, 9-23-69, Cl. 261-111.
Furlong, Owen D. A. C., to Westland Aircraft Limited. Pressure control systems for closed chambers. 3,429,248, 2-25-69, Cl. 98-1.5
Furlong, Owen D., to Westland Aircraft Limited. Pressure control system for pressurized compart- ments. 3,452,665, 7-1-69, Cl. 98-1.5
Furlong, Owen D.; Rowe, Alan C.; and Wright, Eric F., to Westland Aircraft Limited. Fluid pressure ratio control devices. 3,444,875, 5-20-69, Cl. 137-37.
Furlong, Owen Desmond, to Westland Aircraft Limited. Pressurisation of enclosed chambers utilising fluid logic devices. 3,429,249, 2-25-69, Cl. 98-1.5
Furlong, Owen Desmond, to Westland Aircraft Limited. Rate of change of pressure control. 3,457,847, 7-29-69, Cl. 98-1.5
Furlotti, Amato. Writing fluid for ball point writing instruments. 3,468,679, 9-23-69, Cl. 106-22.
Furman, Arthur R.; Greene, Harold R.; and Wilhelm, Frederick A., Jr., to Electronic Associates Inc. Discrete bistable ditital memory system. 3,483,530, 12-9-69, Cl. 340-173.
Furman, George T.; and Fraser, Reginald Percy, deceased0 (by Barclays Bank Limited; executors), to Urquhart's (1926) Limited. Spraying and flame cultivation in agriculture. 3,425,407, 2-4-69, Cl. 126-271.2
Furman, Sydney C., to General Electric Company. Filter element and method of production. 3,438,504, 4-15-69, Cl. 210-483.
Furnas Electric Company: *See—*
McGary, Robert L., 3,467,921.
Furness, Mary A.: *See—*
Furness, William H.,3,428,731.
Furness, Vera I.; and Krzesinski, Boleslaw, to Courtaulds Limited. Process of stretching polyacrylonitrile filaments. 3,449,476, 6-10-69, Cl. 264-28.
Furness, William H., deceased0 (by Furness, Mary A., executrix), to Kennecott Copper Corporation. Stable dispersions of finely divided phosphate- process cupric hydroxide. 3,428,731, 2-18-69, Cl. 424-140.
Furnier-und Sperholzwerk J.F. Werz Jr., K.G.: *See—*
Munk, Edmund, 3,423,267.
Furr, Samuel T., to Bethlehem Steel Corporation. Simplified torsion stress relaxation testing jig. 3,460,380, 8-12-69, Cl. 73-99.
Furrow, Clarence L., to Phillips Petroleum Company. Organic sulfonate production and purification. 3,450,749, 6-17-69, Cl. 260-513.
Furrow, Roger W., to Ford Motor Company. Motor vehicle climate control system. 3,451,468, 6-24-69, Cl. 165-23.
Furry, Lyman B.; and Kagy, Charles W. Counting and feeding apparatus. 3,462,910, 8-26-69, Cl. 53-78.
Furry, Lyman B.: *See—*
Crist, Earl E.; and Furry, Lyman B.,3,460,511.
Furst, Andor: *See—*
Boller, Arthur; Furst, Andor; and Muller, Marcel,3,463,775.
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, to Hoffmann-La Roche Inc. Steroid a-ring modification. 3,478,065, 11-11-69, Cl. 260-397.2
Furst, Andor; and Herzog, Ernst Gerhard, to Hoffmann-La Roche Inc.3-Keto-$\Delta^{1,4}$-,3-keto-$\Delta^{4,6}$-or 3-keto- $\Delta^{1,4,6}$-19-alkylidene steroids. 3,476,781, 11-4-69, Cl. 260-397.3
Furst, Andor; and Muller, Marcel, to Hoffmann-La Roche Inc. 1,2-Epoxy-steroids. 3,480,620, 11-25-69, Cl. 260-239.55
Furst, Andor; and Muller, Marcel, to Hoffmann-La Roche Inc.6-Halo-17α-alkyl-9β, 10α-pregnanes. 3,481,956, 12-2-69, Cl. 260-397.3
Furst, Andor; Muller, Marcel; and Saucy, Gabriel, to Hoffmann-La Roche Inc.11-Oxygenated-10α-steroids. 3,476,746, 11-4-69, Cl. 260-239.55
Furst, Marcel; and Falk, Mervin L., to Newell Associates, Inc. Method of making a capstan. 3,441,998, 5-6-69, Cl. 29-159.
Furst, Stefan, to Reiners, Walter. Device for unloading transfer cases filled with textile coils. 3,447,707, 6-3-69, Cl. 214-307.
Furst, Stefan, to Reiners, Walter. Traveling creel assembly for beam warpers. 3,460,689, 8-12-69, Cl. 214-59.
Furst, Stefan, to Reiners, Walter. Device for unloading a transfer case containing textile coils. 3,468,407, 9-23-69, Cl. 198-53.
Furt, Ludwig; Hahne, Helmut; and Spitzner, Rudolf, to Vereinigung Volkseigener Betriebe Automobilbau. Method for manufacturing springs. 3,456,321, 7-22-69, Cl. 29-173.
Furth, Harold P., to Advanced Kinetics, Inc. Magnetic device for forming sheet metal. 3,430,472, 3-4-69, Cl. 72-56.
Furubayashi, Eiichi: *See—*
Taoka, Tadami; Furubayashi, Eiichi; and Takeuchi, Shin,3,484,150.
Furuhashi, Michio: *See—*
Izumi, Hiroshi; Katahira, Toshiaki; and Furuhashi, Michio,3,472,950.
Sasaki, Reiichi; and Furuhashi, Michio,3,469,214.
Furuichi, Masayoshi, to Kabushiki Kaisha Sankei Seisakusho. Head switching apparatus of a tape recorder. 3,429,578, 2-25-69, Cl. 274-4.
Furukawa Electric Co., Ltd.: *See—*
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo, 3,436,323.
Furukawa, Hideyuki: *See—*
Shiga, Akio; Furukawa, Hideyuki; and Kanemitsu, Haio,3,474,083.
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto, to Maruzen Petrochemical Co., Ltd. Polymerization of epoxides using a new catalyst derived from the reaction of organozinc with nitroso compound. 3,455,847, 7-15-69, Cl. 260-2.
Furukawa, Junji; Morikawa, Hiroyuki; and Yamamoto, Ryuzo, to Mitsubishi Petrochemical Co., Ltd. Process for producing cyclododecatriene-(1,5,9). 3,476,820, 11-4-69, Cl. 260-666.
Furukawa, Tomozo: *See—*
Amano, Noboru; and Furukawa, Tomozo,3,444,461.
Furukawa, Yoshiyasu: *See—*
Honjo, Mikio; Imai, Kin-Ichi; and Furukawa, Yoshiyasu,3,444,158.
Furuoya, Takashi: *See—*
Sasaki, Yozo; Furuoya, Takashi; Sugiyama, Haruo; and Murakami, Hiroshi,3,465,308.
Furusawa, Hidefumi, to Nippon Columbia Kabushikikaisha (Nippon Columbia Co., Ltd.). Magnetic recording and reproducing apparatus. 3,439,879, 4-22-69, Cl. 242-55.12
Furusawa, Yutaka; and Otohata, Etsuo, to Teijin Limited. Continuous polymerization apparatus. 3,486,865, 12-30-69, Cl. 23-285.
Furusawa, Yutaka: *See—*
Tsunawki, Shigemitsu; and Furusawa, Yutaka,3,459,640.
Furyear, David B.: *See—*
Smith, Donald F.; Furyear, David B.; and Smith, Donald W.,3,434,427.
Fusaroli, Goffredo. Drawing device for textile fiber preparation. 3,429,010, 2-25-69, Cl. 19-255.
Fusby, Lloyd L., to United States Borax & Chemical Corporation. Production of boric oxide. 3,468,627, 9-23-69, Cl. 23-149.

Fuschillo, Nicholas; and Schultz, Cramer W., to Melpar, Inc. Radiation cooled cryostat. 3,422,636, 1-21-69, Cl. 62-514.
Fusco, Raffaello; Losco, Giuseppe; and Perini, Mario, to Montecatini Edison S.p.A. Tert butylester of O,O-diethyldithiophosphoryl alpha-phenylacetic acid. 3,462,519, 8-19-69, Cl. 260-941.
Fusco, Raffaello; and Tenconi, Franco, to Warner-Lambert Pharmaceutical Company, mesne. S-benzoyloxymethyl-thiamines. 3,433,789, 3-18-69, Cl. 260-256.5
Fusco, Raffaello; and Tenconi, Franco, to Warner-Lambert Pharmaceutical Company, mesne. Stimulation of flow of bile by substituted cycloalkane-alkanoic acids. 3,439,099, 4-15-69, Cl. 424-317.
Fusco, Raffaello; and Tenconi, Franco, to Northwestern Steel and Wire Company. Stimulation of flow of bile by substituted cycloalkane-alkanoic acids. 3,439,104, 4-15-69, Cl. 13-20.
Fusco, Ralph L., to Talcott, James, Inc., mesne. Delivery mechanism for rotary printing press. 3,487,447, 12-30-69, Cl. 271-64.
Fuse Indicator Corporation: *See—*
Poehlman, Edmund F., Jr., 3,432,789.
Poehlman, Edmund F., Jr., 3,457,535.
Fuse, Kiichiro. Rope device for fire escape. 3,459,276, 8-5-69, Cl. 182-72.
Fuse, Motoyosi: *See—*
Morita, Hiroshi; Fuse, Motoyosi; Iwasaki, Sadaya; Yamagishi, Hisato; Kawaguchi, Syojiro; and Tanigawa, Koichiro,3,476,976.
Fuse, Yuzo: *See—*
Ohkoshi, Akio; Machida, Hiromasa; and Fuse, Yuzo,3,462,641.
Fusee, Rex A., to United States of America, Army. Tubular ammunition rack and housing. 3,444,780, 5-20-69, Cl. 89-34.
Fushimi, Fred C.: *See—*
Lonadier, Frank D.; Brown, Willard B.; Fushimi, Fred C.; and Silver, Gary L.,3,438,749.
Fusion Incorporated: *See—*
Zelna, Robert P., 3,463,363.
Fusion Rubbermaid Corporation: *See—*
Elliott, James P., 3,435,980.
Hurley, Richard C., 3,454,235.
Fuss, James B.; and Frye, John S. Structural bridging. 3,468,093, 9-23-69, Cl. 52-665.
Fussell, Keith Thomas, to Guest, Keen & Nettlefolds (Aust.) Pty. Limited. Splice joint for cable trays. 3,448,955, 6-10-69, Cl. 248-58.
Fussell, Lynn E.; and Ogburn, Robert D., to General Electric Company. Electric and electronic oven with heated door structure. 3,459,921, 8-5-69, Cl. 219-396.
Fussell, Peter Raymond, to Garrard Engineering Limited. Magazine-spindle adaptors for gramophone record changers. 3,420,531, 1-7-69, Cl. 274-10.
Fussell, Richard L.: *See—*
Bader, Clifford J.; Fussell, Richard L.; and Barnett, Arthur G.,3,443,213.
Fussnegger, Wolfgang: *See—*
Resag, Jorg; and Fussnegger, Wolfgang,3,471,892.
Resag, Jorg; and Fussnegger, Wolfgang,3,474,487.
Futagawa, Yoshikiyo; and Komatsu, Chiaki, to Kabushiki Kaisha Suwa Seikoshi. Drive for a balance in an electric timepiece. 3,481,138, 12-2-69, Cl. 58-28.
Futaki, Hisao, to Kabushiki Kaisha Hitachi Seisakusho. Infrared detector composed of a sintered body of vanadium pentoxide and vanadium oxide. 3,484,611, 12-16-69, Cl. 250-83.3
Futaki, Hisao; and Ikegami, Kazutoshi, to Kabushiki Kaisha Hitachi Seisakusho. Switching device using critical temperature thermistor. 3,466,465, 9-9-69, Cl. 307-248.
Futaki, Kiyoshi, to Mitsubishi Paper Mills, Ltd. Coated thermosensitive copying sheet. 3,473,945, 10-21-69, Cl. 117-36.8
Futami, Kakuo: *See—*
Oshima, Shintaro; Futami, Kakuo; Fukui, Takasuke; Kamibayashi, Tetsusaburo; and Komazawa, Yoshihisa,3,441,494.
Futrell, Jean H.; Abramson, Fred P.; and Miller, Carroll D., to United States of America, Air Force. Method of improving sensitivity and resolution of a mass spectrometer. 3,487,208, 12-30-69, Cl. 250-41.9
Futs Metalliques Gallay S.A.: *See—*
Wessely, Eugene, 3,425,381.
Futterer, Lothar: *See—*
Benthake, Henrich; Futterer, Lothar; and Kunnen, Josef,3,469,656.
Futty, Robert C.; and Kugle, John L., to IRL Daffin Associates, Incorporated. Mixing and conveying means. 3,469,824, 9-30-69, Cl. 259-178.
Future Products, Inc.: *See—*
Thompson, Max W.; and Dacus, Wilburn W., 3,464,468.
Thompson, Max Wood, 3,421,558.
Fuwa, Shigehiko: *See—*
Yokota, Ryosuke; Fuwa, Shigehiko; Kawashima, Shinichi; and Matsuo, Yutaka,3,456,641.
Fuwa, Zyoichi, to Kabushiki Kaisha Ricoh. Photographic camera incorporating a battery charger. 3,485,152, 12-23-69, Cl. 95-10.
Fux, Erich, to Knorr-Bremse GmbH. Oscillating windshield wiper. 3,482,275, 12-9-69, Cl. 15-250.32
Fuzzell, Joe E.; Thompson, John C.; and Johnson, John L., Jr., to Caterpillar Tractor Company. Lockable spout closure cap. 3,477,607, 11-11-69, Cl. 220-39.
FWD Corporation: *See—*
Stieg, Robert W., 3,420,121.
FWI, Inc.: *See—*
Elliott, Robert E., 3,474,808.
Fyanes, Robert V. Checker-type board game apparatus. 3,434,719, 3-25-69, Cl. 273-131.
Fyfe, Clayton, to United States of America, Army. Setback-responsive igniter for ordnance projectiles. 3,425,351, 2-4-69, Cl. 102-70.
Fyfe, Paul, to Poly-Optics, Inc., mesne. Method of making optical fibers. 3,472,921, 10-14-69, Cl. 264-1.
Fyler, George W., to Zenith Radio Corporation. Circuit for adding the luminance and color difference signals in a signal processing apparatus for a color television receiver. 3,470,311, 9-30-69, Cl. 178-5.4
Fyler, George W.; and Kot, Frank D., to Zenith Radio Corporation. Periodically excited crystal reference signal circuit for a color demodulator. 3,475,550, 10-28-69, Cl. 178-5.4
Fyler, Norman F., to Litton Precision Products, Inc. Optical maser apparatus with pump trigger. 3,431,511, 3-4-69, Cl. 331-94.5
Fyler, Norman F., to Litton Precision Products, Inc. Electron beam machining apparatus for producing high definition encoders. 3,436,510, 4-1-69, Cl. 219-69.
Fynn, David Ernest; and Deeley, Alfred Ronald, to Marconi Company Limited, The. Transistor cascode amplifier with means to prevent oscillations. 3,443,238, 5-6-69, Cl. 330-18.
Fyrk, Clas O. F., to Swenson Spreader & Mfg. Co.,. Mixing and spreading apparatus. 3,429,418, 2-25-69, Cl. 198-98.
G & G Engineering Corporation: *See—*
Grasseler, George John, 3,472,147.
G & H Products Corporation: *See—*
Welch, Elmer Scott, 3,428,072.
G & H Technology, Inc.: *See—*
Phillips, John J.; and McCormick, Larry L., 3,428,064.
G & W Electric Specialty Company: *See—*
Lusk, George E., 3,439,110.
Lusk, George E., 3,445,580.
Lusk, George E., 3,449,508.
Perkins, Gordon O.; and Swanson, Howard E., 3,478,185.
Perkins, Gordon O.; and Swanson, Howard E., 3,484,570.
G-L Industries: *See—*
Butts, Orville R., 3,450,941.
G-V Controls Inc.: *See—*
Barry, Austin W., 3,424,969.
Broekhuysen, William C., 3,440,357.
Broekhuysen, William C., 3,440,450.
Gaal, Arpad. Vision training device and method for achieving parallel sightings. 3,421,233, 1-14-69, Cl. 35-35.
Gabbay, Ellis Joseph. Fluid flow entries. 3,444,872, 5-20-69, Cl. 137-15.1
Gabbey, Eric G. Method of manufacture of article with self- locking screw thread. 3,419,928, 1-7-69, Cl. 10-10.
Gabbey, Eric G. Process for producing self-locking scew threads. 3,452,375, 7-1-69, Cl. 10-10.
Gabbitus, Derek; Stephens, Allan; Brebner, James; and Lee, Anthony Michael, to Imperial Chemical Industries, Limited. Apparatus and method for forming cohesive filamentary tows. 3,430,427, 3-4-69, Cl. 57-34.
Gabbrielli, Ernesto. Extrusion apparatus. 3,423,790, 1-28-69, Cl. 18-14.
Gabel, Lewis. Plow truck equipment. 3,422,552, 1-21-69, Cl. 37-42.
Gaber, Richard B.: *See—*
Farrell, Guy M.; Gaber, Richard B.; Podgorski, Matthew C.; and Whitlock, Morris N.,3,471,663.
Gabillard, Robert, to Institut Francais du Petrole, des Carburants et Lubrifiants. Method and apparatus for geophysical prospecting by measuring the speed of propagation of electromagnetic waves in the earth. 3,427,533, 2-11-69, Cl. 324-6.
Gabillard, Robert, to Institut Francais du Petrole, des Carburants et Lubrifiants. Method and apparatus for electromagnetic determination of the position of boundaries of and discontinuities in a geological formation. 3,440,523, 4-22-69, Cl. 324-6.
Gable, Charles M.; Duncan, Edward A., Jr.; and Freitas, Ernest Robert, to Shell Oil Company. Selective solvent extraction plus filtration of tar sands. 3,475,318, 10-28-69, Cl. 208-11.
Gable, Clarence L., to Mobay Chemical Company. Flame resistant polycarbonates. 3,475,372, 10-28-69, Cl. 260-45.75
Gable, Duane S.: *See—*
Bangerter, Kenneth R.; and Gable, Duane S.,3,421,392.
Gable, Wyatt T., Jr.; and Barfield, Charles G., to International Harvester Company. Cotton harvester with pneumatic green boll separator. 3,485,019, 12-23-69, Cl. 56-30.
Gabler, Dieter K.: *See—*
Wulbrede, Ernst Diekiele; Willenbacher, Erich M.; and Gabler, Dieter K.,3,443,538.

Gabler, Hellmut; Gerhardt, Wilfried; and Kandler, Joachim, to Knapsack-Grieshum Aktiengesellschaft. Heavy pulp including particles of ferrochrome alloy having a smooth and spherical surface area. 3,454,498, 7-8-69, Cl. 252-60.
Gabler, Hellmut; and Mietens, Gerhard, to Knapsack Aktiengesellschaft. Process for the chemical nickel-plating of non- metallic articles. 3,484,282, 12-16-69, Cl. 117-130.
Gabler, Rudolf, to Inventa A.G. fur Forschung und Patentverwertung. Heat-resistant polythioethers, and method for their production. 3,432,468, 3-11-69, Cl. 260-47.
Gabler, Rudolf, to Oerlikon-Buhrle Holding, Ltd. Holding device for rockets with launcher tube. 3,435,726, 4-1-69, Cl. 89-1.807
Gabor, Andrew: *See*—
Poumakis, Eleuthere; and Gabor, Andrew,3,465,128.
Gabor, Andrew, to Potter Instrument Company, Inc. Write synchronizing system in incremental tape transport. 3,426,336, 2-4-69, Cl. 340-174.1
Gabor, Andrew, to Potter Instrument Company, Inc. Apparatus and method for recording control code between data blocks. 3,427,605, 2-11-69, Cl. 340-174.1
Gabor, Andrew, to Potter Instrument Company, Inc. Storage tape transport and motor control system. 3,471,103, 10-7-69, Cl. 242-184.
Gabor, Dennis: *See*—
Goldmark, Peter C.; and Gabor, Dennis,3,459,885.
Gabor, Dennis, to Columbia Broadcasting System, Inc. Three-dimensional picture projection. 3,479,111, 11-18-69, Cl. 352-44.
Gabor, Dennis; and Albert, Michael Joseph, to National Research Development Corporation. Thermionic electron emitter having a porous refractory metal matrix and an alloy of active metal and mobilizer metal therein. 3,437,865, 4-8-69, Cl. 313-346.
Gabor, William D., to Sanders Associates, Inc. Deflection yoke. 3,430,169, 2-25-69, Cl. 335-213.
Gaboriaud, Paul L. F., 1/2 to Societe Alsacienne d'Etudes et de Travaux (Socaltra). Thyristor inverter. 3,480,850, 11-25-69, Cl. 321-7.
Gabriel, Alfred P.; Lee, Robert E.; and Mohrman, Richard C., to Bausch & Lomb, Incorporated. Probe for photoelectric applanation tonometers. 3,449,946, 6-17-69, Cl. 73-80.
Gabriel, Ralph Parton; and Bass, Patrick, to R. & R. Research Limited. Pay broadcast reception apparatus with battery powered debit means. 3,459,882, 8-5-69, Cl. 178-5.1
Gabriel, Ralph P.; and Kinross, Rupert I., to Communications Patents Limited. Signal transmission cable. 3,433,890, 3-18-69, Cl. 174-116.
Gabrielli, Donald P.; and Chillino, Joseph, to Epic Pools Corporation. Swimming pools. 3,447,168, 6-3-69, Cl. 4-172.
Gabrielli, Gilberta. Automatic or semi-automatic multi-spindle grinder for diesel engine fuel nozzles. 3,430,388, 3-4-69, Cl. 51-3.
Gabrielson, Dan A.: *See*—
Bachrach, Erwin; and Gabrielson, Dan A.,3,438,138.
Gabrielson, Dannie B; and Rubick, John S. Portable combination table and fire escape. 3,452,838, 7-1-69, Cl. 182-28.
Gabris, Tibor, to Liaison S.A. Polyamide resins. 3,445,408, 5-20-69, Cl. 260-18.
Gacesa, Gerald R., to PPG Industries, Inc. Method for removing gas film formed during electrodeposition. 3,441,489, 4-29-69, Cl. 204-181.
Gad-Jets, Inc.: *See*—
Wyse, Harold G., 3,455,513.
Gadd, John D., to TRW Inc. Aluminide coating braze stop-off. 3,478,413, 11-18-69, Cl. 29-490.
Gaddis, Preston G. Dry chemical feeder method and apparatus. 3,425,669, 2-4-69, Cl. 259-18.
Gade, Gerhard; Rische, Uwe Wolfgang; and Rosler, Geert, to U.S. Philips Corporation. Apparatus for high frequency-heating in a wave guide. 3,475,577, 10-28-69, Cl. 219-10.55
Gadefaix, Roger: *See*—
Klere, Jean; and Gadefaix, Roger,3,471,536.
Gadenne, Philippe, to CSF-Compagnie Generale de Telegraphie Sans Fil. Electronic scanning antenna systems. 3,482,244, 12-2-69, Cl. 343-100.
Gadiel, Peter, to International Graphics and Packaging Corporation. Disposable container. 3,455,498, 7-15-69, Cl. 229-39.
Gadient, Fulvio: *See*—
Jucker, Ernst; Lindenmann, Adolf J.; and Gadient, Fulvio,3,428,670.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; and Gadient, Fulvio,3,432,491.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; Gadient, Fulvio; and Stoll, Andre,3,438,976.
Gaede, Frank L., to Gaede Products, Inc. Drawer step. 3,481,429, 12-2-69, Cl. 182-88.
Gaede Products, Inc.: *See*—
Gaede, Frank L., 3,481,429.
Gaensbauer, Herbert A.; and Elgar, Everett C., to Canadian General Electric Company Limited. Stator core for dynamoelectric machines. 3,436,579, 4-1-69, Cl. 310-258.
Gaertner, Friedhelm: *See*—
Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedhelm,3,426,491.
Gaertner, Richard F.: *See*—
Boldebuck, Edith M.; and Gaertner, Richard F.,3,440,202.
Holub, Fred F.; and Gaertner, Richard F.,3,448,068.
Gaertner, Van R., to Monsanto Company. Alkyl glycidyl mixed esters and amine reaction products thereof. 3,459,715, 8-5-69, Cl. 260-78.5
Gaestel, Charles; and Leveuf, Marcel, to Esso Standard Societe Anonyme Francaise. Acid emulsions of petroleum resin-based binding agents. 3,437,613, 4-8-69, Cl. 260-17.4
Gaeth, Rudolf H., to Phillips Petroleum Company. Process and catalyst for production of high vinyl polybutadiene. 3,457,250, 7-22-69, Cl. 260-94.3
Gaeth, Rudolf H.; and Brown, James D., to Phillips Petroleum Company. Catalyst comprising a nickel component, organo- metallic, or $LiA1H_4$ and an aryl-substituted halo- alkane or halogen substituted alkene and process for polymerizing 1,3-butadiene therewith. 3,458,493, 7-29-69, Cl. 260-94.3
Gaeth, Rudolf H.; and Naylor, Floyd E., to Phillips Petroleum Company. Polymerization of 1,3-butadiene. 3,480,608, 11-25-69, Cl. 260-94.3
Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Fire-resisting doors with expandable seal means including a thermal conductor. 3,426,491, 2-11-69, Cl. 52-204.
Gaeth, Rudolf: *See*—
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo,3,429,836.
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo,3,434,980.
Gaetz, Roderick R.: *See*—
Lainas, Telemahos G.; and Gaetz, Roderick R.,3,472,379.
Gaeumann, Ernst, deceased (by Gaeumann, Tino, legal representative); Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst, to Ciba Corporation. Trihydroxamic acids. 3,471,476, 10-7-69, Cl. 260-239.3
GAF Corporation: *See*—
Azorlosa, Julian Louis; Williams, Earl Pierce; and Field, Nathan D., 3,436,378.
Azorlosa, Julian Louis, 3,448,088.
Barabas, Eugene S.; and Grosser, Frederick, 3,462,385.
Barabas, Eugene S.; and Grosser, Frederick, 3,467,613.
Barabas, Eugene S.; and Fein, Marvin M., 3,468,831.
Barabas, Eugene S.; and Grosser, Frederick, 3,468,832.
Bennett, Frank P., 3,460,890.
Bennett, Frank P., 3,462,216.
Buc, Saul R.; and Woodward, Fred E., 3,443,013.
Catino, Sigmund C.; and Strobel, Albert F., 3,441,562.
Chang, Charles H., 3,468,941.
Chiddix, Max Eugene; and Leonard, Edward Oliver, 3,432,494.
Chiddix, Max Eugene; and Leonard, Edward Oliver, 3,432,495.
Chiddix, Max Eugene, 3,432,496.
Claussen, Lorenz V., 3,434,229.
Cofrancesco, Anthony J.; and Ferrigan, Richard, 3,468,938.
Copeland, Ralph A., 3,449,335.
Craig, Winfred C.; Davis, Gershon J.; and Shull, Peter O., 3,474,144.
Daniels, Wiley E., 3,477,980.
Dersch, Fritz; and Welsh, John A., 3,420,664.
Dersch, Fritz; and Paniccia, Sally L., 3,436,220.
Dersch, Fritz; and Paniccia, Sally L., 3,446,618.
Dersch, Fritz; and Welsh, John A., 3,447,925.
Diener, Carl E.; and Herrick, William G., 3,469,983.
Doss, Nagib A., 3,453,255.
Dumers, Dewey M., 3,486,890.
Eiseman, Fred S., Jr.; and Schenck, Leslie M., 3,426,077.
Eiseman, Fred S., Jr.; Schenck, Leslie M.; and Mackey, E Scudder, 3,442,654.
Eiseman, Fred S., Jr.; and Schenck, Leslie M., 3,454,624.
Eiseman, Fred S., Jr.; and Schenck, Leslie M., 3,454,625.
Fein, Marvin M.; and Barabas, Eugene S., 3,474,079.
Freifeld, Milton; Mills, George S.; and Nelson, Richard J., 3,426,099.
Freifeld, Milton, 3,437,647.
Freyermuth, Harlan B.; and Randall, David I., 3,436,400.
Goodman, Robert C.; and Mastroianni, Emilio G., 3,435,751.
Goodman, Robert C.; and Boston, Robert L., 3,449,547.
Goodman, Robert C.; and Sames, Delbert W., 3,452,627.
Goodman, Robert C.; and Sames, Delbert W., 3,480,222.
Grifo, Richard A.; Walts, John M.; and Schenck, Leslie M., 3,468,805.
Grosser, Frederick; and Hort, Eugene V., 3,459,720.
Herrick, Clifford E., Jr., 3,471,289.
Hodgkiss, John A.; Komor, Joseph A.; and Schenck, Leslie M., 3,437,697.
Hoover, James E., 3,479,986.
Huey, William G.; Armento, William H.; and Stanley, Lester N., 3,437,418.

Johnson, Ernest L., 3,487,429.
Johnson, Grannis S., 3,458,537.
Katz, Leon, 3,449,154.
Klein, Karl J., 3,423,393.
Klinger, Guenther H.; and Cwikla, Martin V., 3,429,708.
Kottman, Joseph J., 3,480,786.
Leibowitz, Marvin R.; and Grosser, Frederick, 3,479,417.
Levinos, Steven; and Deutsch, Albert S., 3,436,215.
Levinos, Steven, 3,451,902.
Levinos, Steven, 3,474,719.
Loprest, Frank J., 3,445,654.
Mayhew, Raymond L.; and Williams, Earl P., 3,436,463.
Merijan, Ashot; and Grosser, Frederick, 3,423,367.
Merijan, Ashot; and Grosser, Frederick, 3,423,381.
Merijan, Ashot; and Grosser, Frederick, 3,474,110.
Merijan, Ashot; and Grosser, Frederick, 3,479,327.
Micco, Leopoldo A.; and Jones, Donald P., 3,449,487.
Nederlof, Bastiaan K.; and van der Stap, Hendricus G. M., 3,482,918.
Nehmsmann, Louis J.; and Schenck, Leslie M., 3,462,520.
Nemeth, Otto R., 3,439,981.
Nichols, Gordon W., 3,458,707.
Nichols, Gordon W., 3,471,242.
Nichols, Gordon W.; and Radin, Edward J., 3,472,592.
Pekera, Paul; and Young, James L., 3,474,912.
Procop, Alex J., 3,481,662.
Randall, David I.; and Freyermuth, Harlan B., 3,486,838.
Rauch, Emil B.; and Welsh, John A., 3,428,629.
Rugg, Gordon R., 3,458,337.
Sames, Delbert W., 3,472,106.
Sames, Delbert W., 3,474,692.
Schultz, Herman S., 3,449,408.
Schultz, Herman S., 3,459,723.
Shiraeff, Dimitry Alexis, 3,480,557.
Shown, John Hampton; and Tyson, Ronald Saylor, 3,454,604.
Slimowicz, Chester E., 3,480,437.
Sprung, Joseph A., 3,436,221.
Sprung, Joseph A., 3,471,297.
Srobel, Albert F.; and Catino, Sigmund C., 3,462,479.
Stahl, Clarence Richard; and Siggia, Sidney, 3,454,558.
Streck, Clemens, 3,425,784.
Streck, Clemens, 3,436,168.
Streck, Clemens, 3,441,362.
Strobel, Albert F.; and Catino, Sigmund C., 3,423,407.
Strobel, Albert F.; and Catino, Sigmund C., 3,448,133.
Strobel, Albert F.; and Catino, Sigmund C., 3,462,475.
Szymber, Oleg, 3,447,869.
Thomas, Hudson A., 3,440,775.
Tiedemann, Herman H., 3,471,383.
Tracy, David J., 3,423,327.
Uffner, Melville W., 3,441,456.
van der Stap, Hendricus G. M., 3,486,711.
Viro, Felix, 3,458,316.
Walts, John M.; and Schenck, Leslie M., 3,423,473.
Weigl, John W.; and Amidon, Alan B., 3,477,846.
Welch, Eldred, 3,441,603.
Welch, Walter J.; and Tripp, Bert E., 3,420,666.
Welch, Walter J., 3,460,943.
Wetherill, Frank E., 3,449,445.
See Also: General Aniline & Film Corporation

Gaffard, Jean Paul, to Societe Europenne de Materiels Speciaux. Differential radiation pyrometer system. 3,482,448, 12-9-69, Cl. 73-355.

Gaffney, Arthur S.: *See—*
Ziffer, Jack; and Gaffney, Arthur S.,3,483,003.
Ziffer, Jack; Gaffney, Arthur S.; Rothenberg, Simon; and Cairney, Thomas J.,3,454,501.

Gaffney, Bernard James, to Conwed Corporation. Foam surfaced acoustical body. 3,444,956, 5-20-69, Cl. 181-33.

Gaffney, Bernard J.: *See—*
Bronstien, Edward L., Jr.; Akerson, David W.; Gaffney, Bernard J.; and Fisher, Richard A.,3,429,767.

Gaffney, William J. Soap bar holder. 3,476,254, 11-4-69, Cl. 211-13.

Gaffron, Bernard W.: *See—*
Donnelly, Charles A., Jr.; Gaffron, Bernard W.; and Stoll, Marvin A.,3,467,470.

Gafvert, Bo E.: *See—*
Tuma, Alex; and Gafvert, Bo E.,3,457,132.

Gag, Joseph B., to Textron, Inc. Alternating current generator voltage regulator. 3,428,883, 2-18-69, Cl. 322-28.

Gagarine, Dmitry M.; Habib, Emile E.; and La Fleur, Kermit S., to Deering Milliken Research Corporation. Process for modifying keratin fibers. 3,477,805, 11-11-69, Cl. 8-128.

Gage, Arthur F., to Rockwell-Standard Company, mesne. Brake shoe and lining therefor. 3,422,937, 1-21-69, Cl. 188-250.

Gage, Frederick W.: *See—*
Brams, Stewart L.; Gage, Frederick W.; and Riege, Ronald L.,3,445,318.

Gage, Robert M., to Union Carbide Corporation. Gas flow control apparatus. 3,471,674, 10-7-69, Cl. 219-74.

Gage, Thomas B., to Du Pont de Nemours, E. I., and Company. Bulked yarn. 3,433,008, 3-18-69, Cl. 57-153.

Gager, John Chapman. Automatic poultry cooker. 3,460,462, 8-12-69, Cl. 99-404.

Gageur, Fritz, to Lindauer Dornier Gesellschaft m.b.H. Chain track assembly for tenter clips. 3,457,608, 7-29-69, Cl. 26-61.

Gageur, Fritz, to Lindauer Dornier Gesellschaft m.b.H. Chain track assembly for tenter clips. 3,469,291, 9-30-69, Cl. 26-61.

Gaggini, Carlo: *See—*
Schoch, Hans; and Gaggini, Carlo,3,426,810.

Gagher, Bernard J.; Shufflebarger, Earl D.; and Gallagher, Michael F., to Whitey Research Tool Co. Sample cylinder valve. 3,445,088, 5-20-69, Cl. 251-214.

Gagle, Duane W.: *See—*
Draper, Homer L.; Bennett, Richard J.; and Gagle, Duane W.,3,474,625.

Gagliano, Michael Angelo. Hair processing apparatus. 3,464,425, 9-2-69, Cl. 132-9.

Gagliardi, Anthony J.; and Tellerico, Joseph Anthony, Jr. Spatula-fork. 3,464,730, 9-2-69, Cl. 294-2.

Gagliardi, Domenick D., to Commercial Solvents Corporation. Oxazoline water repellent composition. 3,423,349, 1-21-69, Cl. 260-28.5

Gagliardi, Domenick Donald, to Colgate-Palmolive Company. Fluoroacid derivatives of trisazindinyl phosphine oxides and sulfides and method of coating surface having active hydrogen therewith. 3,445,274, 5-20-69, Cl. 117-121.

Gagliardi, Domenick Donald. Textile treating compositions containing fluorinated acrylic polymers and polyvalent metal salts of weak acids. 3,467,612, 9-16-69, Cl. 260-29.6

Gagliardi, Gene R.: *See—*
Parrella, Alfred T.; and Gagliardi, Gene R.,3,430,400.
Parrella, Alfred T.; Palubniak, Paul; and Gagliardi, Gene R.,3,461,612.

Gagliardi, Richard P.; and Metz, Louis C., Jr., to United States of America, Navy. SCR pulse forming and shaping network. 3,424,925, 1-28-69, Cl. 307-268.

Gaglione, Alfonso T.; Marvin, Harry N.; and Wyrough, David J., to Midland-Ross Corporation. Container tie-down apparatus. 3,442,480, 5-6-69, Cl. 248-361.

Gaglione, John P., to Wilks Scientific Corporation. Multipurpose sample cell for conventional and attenuated total reflection absorption spectroscopy of gaseous and solid samples. 3,478,206, 11-11-69, Cl. 250-43.5

Gagnan, Emile: *See—*
Cousteau, Jacques Yves; and Gagnan, Emile,3,480,011.

Gagnaux, Pierre: *See—*
Renz, Jany; Bourquin, Jean Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,464,977.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,474,099.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav,3,478,022.

Gagne, Antoine F.: *See—*
Hurlbut, Gordon K.; and Gagne, Antoine F.,3,461,619.

Gagne, Archie R. Amphibious vehicle. 3,469,553, 9-30-69, Cl. 115-1.

Gagne, Joseph L., to Davol Inc. Plastic catheter with rubber balloon. 3,460,540, 8-12-69, Cl. 128-349.

Gagne, Oscar J., to Precise Service, Inc. System for duplicating a model to produce foam plastic pattern. 3,461,749, 8-19-69, Cl. 76-107.

Gagneux, Andre R.; and Hafliger, Franz, to Geigy Chemical Corporation. Adamantane-1-carboxylic acid derivatives. 3,465,034, 9-2-69, Cl. 260-514.

Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad, to Geigy Chemical Corporation. Certain derivatives of ibotenic acid. 3,436,399, 4-1-69, Cl. 260-307.

Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad, to Geigy Chemical Corporation. Isoxazole derivatives and processes for making them. 3,459,862, 8-5-69, Cl. 424-272.

Gagnon, Donald W.: *See—*
Bayer, John W.; Gagnon, Donald W.; and Grinonneau, William C.,3,427,257.
Bayer, John W.; Gagnon, Donald W.; Grinonneau, William C.; and Santiago, Edgardo,3,476,732.

Gagnon, Robert E. Pastry filling machine. 3,428,000, 2-18-69, Cl. 107-1.

Gagnon, Robert E. Dough cutting, transporting and depositing apparatus. 3,464,299, 9-2-69, Cl. 83-99.

Gagnon, Roland K.; Marzocchi, Alfred; and Rogers, Harold, to Owens-Corning Fiberglas Corporation. Glass fiber sizing emulsions comprising epoxidized triglyceride and carboxylic copolymer. 3,444,116, 5-13-69, Cl. 260-23.

Gagnon, William J., Jr.: *See—*
Weston, Charles D.; Gagnon, William J., Jr.; and Reynolds, Dwight W.,3,462,608.

Gagnon, William L.; Scalise, Dominic Theodore; and Smith, Bob H., to United States of America, Atomic Energy Commission. Pulse line having components coaxially interconnected and confined with large surface area conductors. 3,433,977, 3-18-69, Cl. 307-106.

Gagolski, Julian: *See—*
Curtin, John Hedley; and Gagolski, Julian,3,437,653.
Gagolski, Julian; and Lilienthal, Bernard, to Colonial Sugar Refining Company Limited, The. Method of and composition for inhibiting dental erosion. 3,471,613, 10-7-69, Cl. 424-57.
Gagolski, Julian; and Smythe, Bruce M., to Colonial Sugar Refining Company, Limited, The. Animal feed supplement containing a salt of sucrose phosphate. 3,469,989, 9-30-69, Cl. 99-2.
Gagon, Roland E.: *See—*
Baker, William G.; Bose, Carl L.; and Gagon, Roland E.,3,439,546.
Gahir, Avtar Singh, to British Insulated Callender's Cables Limited. Joints for electric cables. 3,456,065, 7-15-69, Cl. 174-22.
Gahir, Avtar Singh; and Papadopulos, Michael Savvas, to British Insulated Callender's Cables Limited. Joints for electric cables. 3,453,372, 7-1-69, Cl. 174-22.
Gahle, Walter, to Rheinmetall G.m.b.H. Blank rounds of ammunition. 3,424,088, 1-28-69, Cl. 102-39.
Gahler, Werner: *See—*
Donath, Siegfried; and Gahler, Werner,3,465,847.
Gahn, Randall F.: *See—*
Graab, Judson W.; Rosenblum, Louis; Maple, William E.; Dupraw, William A.; and Gahn, Randall F.,3,472,625.
Gail, Stewart E., to Lear Siegler, Inc. Bearing gas pressure equalizing structure. 3,466,478, 9-9-69, Cl. 310-90.
Gailing, Otto: *See—*
Lutz, Hans; Gailing, Otto; and Klingbeil, Werner,3,429,051.
Gaillard, Yvon Andre. Method and apparatus for storing and retrieving technical musical data. 3,481,241, 12-2-69, Cl. 84-474.
Gainer, Alvis B.: *See—*
Duval, Claiborne A., Jr.; and Gainer, Alvis B.,3,426,065.
Gainer, Gordon C.; and Luck, Russell M., to Westinghouse Electric Corporation. Electric lamp with improved integrally-molded foamed plastic base having internal stress- relieving means. 3,458,747, 7-29-69, Cl. 313-318.
Gaines, Brian Ronald: *See—*
Andreae, John Hugh; Joyce, Peter Lawrence; and Gaines, Brian Ronald,3,484,749.
Gaines, Floyd C., Jr., to Pan American Hydroponics, Inc. Automatic temperature control of greenhouse. 3,446,272, 5-27-69, Cl. 165-21.
Gaines, Jack H.; and Edmisson, Russell C., to Sierra Electric Corporation. Electrical device moduline. 3,432,611, 3-11-69, Cl. 174-66.
Gaines, John W., to International Harvester Company. Four stroke stratified engine. 3,470,856, 10-7-69, Cl. 123-107.
Gaines, Richard I. Method of softening water and regenerating the base exchange bed. 3,454,492, 7-8-69, Cl. 210-35.
Gaines, Richard S.; and Lee, Chi-Yuan, to Bell Telephone Laboratories, Incorporated. Information storage system. 3,475,733, 10-28-69, Cl. 340-173.
Gaines, Walter A.; and Reinhold, Donald F., to Merck & Co., Inc. Production of guanylic acid. 3,448,098, 6-3-69, Cl. 260-211.5
Gaines, Walter A.; Reinhold, Donald F.; and Sletzinger, Meyer, to Merck & Co., Inc. Process for preparing 1-aroylindole-3-acetic acid compounds. 3,483,220, 12-9-69, Cl. 260-326.13
Gaines, Walter A.: *See—*
Reinhold, Donald F.; Gaines, Walter A.; and Sletzinger, Meyer,3,480,670.
Gaines, William C., Jr., to American Air Filter Company, Inc. Pocket-type filter cartridge and support structure assembly. 3,440,807, 4-29-69, Cl. 55-497.
Gaines, William M., to Singer Company, The. Needle-bar throwout mechanism for a tufting machine. 3,460,499, 8-12-69, Cl. 112-221.
Gainesville Machine Company: *See—*
Knight, Billy F., 3,451,097.
Gainesville Machine Company, Inc.: *See—*
Lewis, Ernest E., 3,420,578.
Gainsboro, Nathan R.; and Weisberg, Robert A., to Sweco, Inc. Heat exchanger. 3,482,626, 12-9-69, Cl. 165-155.
Gainsborough Precision Engineering (Birmingham): *See—*
Eaton, Maurice B., 3,457,868.
Gainsbury, Peter Edward: *See—*
Rhys, David Wade; Gainsbury, Peter Edward; and Savage, Ronald,3,466,165.
Gaiser, Conrad J. Method of conditioning fabrics. 3,442,692, 5-6-69, Cl. 117-120.
Gaiser, Conrad J. Amorphous sodium silicate having inherent binding properties and method of producing same. 3,450,494, 6-17-69, Cl. 23-110.
Gaiser, Kurt. Floor with baseboard. 3,430,402, 3-4-69, Cl. 52-287.
Gaissert, Heinz; and Hiller, Johannes, to International Standard Electric Corporation. Line-spacing apparatus. 3,433,345, 3-18-69, Cl. 197-114.
Gajda, Leo P.; and Hevonkoski, Frank A., to Snyder Corporation. Profile machining apparatus. 3,427,907, 2-18-69, Cl. 82-14.
Gajee, Betty B.: *See—*
Feuge, Reuben O.; Lovegren, Norman V.; and Gajee, Betty B.,3,431,116.
Gajewski, Henry M.; Harrison, Robert R.; and Snyder Donald, to Baxter Laboratories, Inc. Means for coupling a pair of fluid conduits. 3,456,965, 7-22-69, Cl. 285-260.
Gajewski, Mieczyslaw: *See—*
Greenwalt, Tibor J.; and Gajewski, Mieczyslaw,3,462,361.
Gal, George: *See—*
Carey, Daniel J.; Gal, George; Sletzinger, Meyer; and Reinhold, Donald F.,3,471,514.
Gal, George, to Merck & Co., Inc. Nitroimidazole carbonates and thionocarbonates. 3,458,528, 7-29-69, Cl. 260-309.
Gal, George; and Sletzinger, Meyer, to Merck & Co., Inc. Process for preparing 1-aroyl-3-indolyl acetic acids. 3,454,593, 7-8-69, Cl. 260-326.12
Gal, George; and Sletzinger, Meyer, to Merck & Co., Inc. Intermediates for preparing 1-aroylindole-3- alkanoic acids. 3,470,203, 9-30-69, Cl. 260-326.15
Gal, Laszlo: *See—*
Viltschek, Endre; and Gal, Laszlo,3,427,846.
Gal, Martin, to Pilot Incorporated. Coupling for automotive tow bars. 3,472,529, 10-14-69, Cl. 280-502.
Gal, Rudi; Haack, Erich; Stach, Kurt; Schaumann, Wolfgang; and Ritter, Klaus, to Boehringer, C. F., & Soehne G.m.b.H. 6-Hydrazino-pyridazine derivatives. 3,462,432, 8-19-69, Cl. 260-250.
Gala Industries, Inc.: *See—*
Dudley, Vernon E., 3,458,045.
Galan, Julian; and Smith, Terry W., to Anchor Coupling Co. Inc. Tool with wedge-operated jaw segments. 3,455,140, 7-15-69, Cl. 72-416.
Galaniuk, Alexander H., to Ford Motor Company. Hydromechanical infinitely variable power transmission mechanism. 3,425,295, 2-4-69, Cl. 74-677.
Galantay, Eugene E., to Sandoz Inc. 5,9-Epoxy-6,7,8,9-tetrohydro-5H benzocyclohepten- 5-ols and process for preparing same. 3,432,526, 3-11-69, Cl. 260-345.9
Galantay, Eugene E., to Sandoz Inc. Aminomethyldibenzobicycloalkenes. 3,441,567, 4-29-69, Cl. 260-293.
Galantay, Eugene E., to Sandoz Inc.Certain aminopropylidenebenzo [5,6] cyclohept a [1,2-d] thiazoles. 3,442,903, 5-6-69, Cl. 260-302.
Galantay, Eugene E., to Sandoz, Inc. Aminohydroxyhexahydrocyclopentadibenzocyclooctenes. 3,449,428, 6-10-69, Cl. 260-571.
Galantay, Eugene E., to Sandoz Inc. 4-Piperidine substituted benzocycloheptaopazoles and benzocycloheptathiazoles. 3,458,522, 7-29-69, Cl. 260-293.4
Galantay, Eugene E., to Sandoz Inc. 6-Amino-6,7,8,9-tetrahydro-5H-benzocyclohepten-5-ols. 3,458,577, 7-29-9, Cl. 260-571.
Galantay, Eugene E., to Sandoz Inc.α-Tetronic acid derivatives. 3,474,112, 10-21-69, Cl. 260-343.6
Galantay, Eugene E. Benzocycloheptaimidazoles. 3,485,846, 12-23-69, Cl. 260-293.
Galantay, Eugene E., to Sandoz, Inc. Substituted estradiol alkyl ethers. 3,487,155, 12-30-69, Cl. 424-238.
Galantay, Eugene E.; and Ott, Hans, to Sandoz Inc.Preparation of 4-aminodibenzo [a,d] cycloalken- 5-ones. 3,424,796, 1-28-69, Cl. 260-576.
Galantay, Eugene E.: *See—*
Frey, Albert J.; and Galantay, Eugene E.,3,459,806.
Fried, Josef; and Galantay, Eugene E.,3,446,821.
Fried, Josef; and Galantay, Eugene E.,3,472,877.
Galantay, Eugene, to Sandoz Inc. Aminodibenzocycloalkenones. 3,458,578, 7-29-69, Cl. 260-576.
Galassini, Pete: *See—*
Schlothauer, Carl H.; and Galassini, Pete,3,425,198.
Galasso, Maurice; and Kirby, Joseph C., to Beckman Instruments, Inc. Centrifuge test tube cap. 3,447,712, 6-3-69, Cl. 220-24.5
Galasso, Salvatore F.: *See—*
Basche, Malcolm; Fanti, Roy; and Galasso, Salvatore F.,3,443,301.
Galasso, Salvatore F., to United Aircraft Corporation. Process for producing ordered complex perovskite-type crystals with high dielectric constants. 3,464,785, 9-2-69, Cl. 23-51.
Galasso, Salvatore F.; and Graf, Robert B., to United Aircraft Corporation. Temperature responsive electrical element and method. 3,483,139, 12-9-69, Cl. 252-518.
Galat, Alexander. Calcium aspirin dialkylsulfoxides. 3,433,827, 3-18-69, Cl. 260-480.
Galaup, Henri, to French State, represented by the Delegation for Munitions, Technical Direction of Land Munitions. Device for guiding and securing parachuting platforms in aircraft. 3,424,410, 1-28-69, Cl. 244-137.
Galaxie Manufacturing Co.: *See—*
Gallinger, Jay S., 3,451,243.
Galbarini, Maso; and Cotta Ramusino, to Innocenti Societa Generale per l'Industria Metallurgica e Meccanica. Device for moving machine tool components. 3,431,797, 3-11-69, Cl. 74-665.
Galbarini, Maso; and Cotta Ramusino, Francesco, to Innocenti Societa Generale per l'Industria Metallurgica e Meccanica. Angularly adjustable headstock attachment for use on machine tools. 3,483,796, 12-16-69, Cl. 90-17.

Galbarini, Maso; and Ramusino, Francesco Cotta, to Innocenti Societa Generale per l'Industria Metallurgica e Meccanica. Device for use with a horizontal boring-milling machine, particularly when machining large size workpieces. 3,482,474, 12-9-69, Cl. 77-3.
Galbraith & Sulley Ltd.: *See*—
Bachrich, Jakob L., 3,427,775.
Galbraith, Floyd M., Jr., to Eastman Kodak Company. Automatic shutter mechanism. 3,472,137, 10-14-69, Cl. 95-10.
Galbraith, Lyle D.: *See*—
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D.,3,460,746.
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D.,3,460,747.
Galdabini, Renzo. Method and apparatus for straightening elongated pieces. 3,481,170, 12-2-69, Cl. 72-8.
Galdden, Donald W. Magnetic filter. 3,480,145, 11-25-69, Cl. 210-223.
Gale, Alfred J., to Ion Physics Corporation. Fabricating solid state devices by ion implantation. 3,434,894, 3-25-69, Cl. 148-187.
Gale, Ann; and Phillipps, Gordon Hanley, to Glaxo Laboratories Limited. Process for the preparation of 5(10), 7-dehydro-steroids. 3,450,697, 6-17-69, Cl. 260-239.55
Gale, David M., to Du Pont de Nemours, E. I., and Company. α,α-Di-(fluoroalkyl) benzylamines and their preparation from aromatic compounds and fluoroalkylideneimines. 3,446,845, 5-27-69, Cl. 260-570.8
Gale, David M., to Du Pont de Nemours, E. I., and Company. Preparation of 1-cyanobicyclo [1.1.0] butane and 1-cyanocyclobutene by photolysis of β-cyanoprene. 3,459,647, 8-5-69, Cl. 204-158.
Gale, David M., to Du Pont de Nemours, E. I., and Company. α,α-Difluoroalkylarylmethyl isocyanates. 3,468,924, 9-23-69, Cl. 260-453.
Gale, David M., to Du Pont de Nemours, E. I., and Company. α, α-Difluoro-alkyl amines and process. 3,478,100, 11-11-69, Cl. 260-570.5
Gale, John A., to Gale, John, Company. Seating structure. 3,441,310, 4-29-69, Cl. 297-294.
Gale, John, Company: *See*—
Gale, John A., 3,441,310.
Gale, Leo R.; and Remack, Alfred R., to Lockformer Company, The. Machine for cutting formations of different shapes in fiberboard. 3,420,142, 1-7-69, Cl. 90-24.
Gale, William James. Tractors. 3,485,511, 12-23-69, Cl. 280-405.
Galen, Ludwig A.: *See*—
Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A.,3,420,784.
Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A.,3,423,328.
Galer, Richard E., to National Gypsum Company, mesne. Kiln feed control. 3,421,703, 1-14-69, Cl. 241-25.
Galer, Richard E., to National Gypsum Company. Heat exchanger. 3,462,850, 8-26-69, Cl. 34-57.
Galerstein, George: *See*—
Upton, Hubert W., 3,463,885.
Galey, Jean; and Valin, Gilbert, to L'Air Liquide. Method of using induction furnaces. 3,443,806, 5-13-69, Cl. 266-34.
Galey, William F., to PPG Industries, Inc. Process for manufacture of glass utilizing gas pressure for glass sizing. 3,432,283, 3-11-69, Cl. 65-99.
Galia, Karl: *See*—
Dosch, Peter; and Galia, Karl,3,441,738.
Galiano, Francis R.: *See*—
Hill, Robert W.; and Galiano, Francis R.,3,480,693.
Galiano, Francis R.; and Hill, Robert W., to Gulf Research & Development Company. Rapid-curing resin compositions. 3,461,186, 8-12-69, Cl. 260-850.
Galicher, Georges Camille Eugene. Gear boxes. 3,429,202, 2-25-69, Cl. 74-740.
Galietti, Samuel. Foldable door for wall openings. 3,422,878, 1-21-69, Cl. 160-199.
Galigher Company, The: *See*—
Holland, Robert Barnsley; and Fowler, DeVere A., 3,441,245.
Galipon, Jean, to Compagnie Francaise Thomson-Houston-Hotchkiss- Brandt. Guidance system. 3,455,522, 7-15-69, Cl. 244-3.14
Galis, Alex J. Tree shaker apparatus. 3,460,331, 8-12-69, Cl. 56-329.
Galizia, Eugene V.; and Immel, Richard H., to Sinclair-Koppers Company. Process and apparatus for making shaped cellular articles from expandable thermoplastic resins. 3,424,827, 1-28-69, Cl. 264-51.
Galka, John J.: *See*—
Bieber, Clarence George; and Galka, John J.,3,459,545.
Galkin, Warren. Strap feed and cutoff machine. 3,479,911, 11-25-69, Cl. 83-65.
Gall, David, to Burroughs Wellcome & Co. (U.S.A.) Inc. Vaccines and adjuvants therefor. 3,429,966, 2-25-69, Cl. 424-92.
Gall, Douglas Crisp. Photoelectric controlled current regulator. 3,453,528, 7-1-69, Cl. 323-4.
Gall, Rudi; Stach, Kurt; and Voemel, Wolfgang, to Boehringer, C. F., & Soehne GmbH. 5-Nitrofuryl and t-nitrothienyl compounds. 3,483,193, 12-9-69, Cl. 260-240.
Gall, Walter George, du Pont de Nemours, E. I., and Company. Coalesceable polyimide powders from a polycarboncyclic aromatic dianhydride and phenylene diamine. 3,422,061, 1-14-69, Cl. 260-47.
Gall, Walter George, du Pont de Nemours, E. I., and Company. Aromatic polyimide preparation. 3,422,064, 1-14-69, Cl. 260-47.
Gall, William: *See*—
Fernald, Herbert B.; Gall, William; and Kresge, Alfred N.,3,477,819.
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,441,631.
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,444,263.
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,444,264.
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,478,124.
Gallaccio, Anthony: *See*—
Pearlstein, Fred; Wick, Reyburn W.; and Gallaccio, Anthony,3,485,682.
Gallager, Robert G., to Codex Corporation. Error burst decoder for convolutional correction codes. 3,469,236, 9-23-69, Cl. 340-146.1
Gallagher, Bernard J.: *See*—
Callahan, Francis J., Jr.; Gallagher, Bernard J.; Tasker, Jonathan; and Shufflebarger, Earl D.,3,428,291.
Gallagher, Charles J., to General Electric Company. Triggerable vacuum gap having offset trigger. 3,450,922, 6-17-69, Cl. 313-155.
Gallagher, Cornelius A., to Servo Corporation of America. Hotbox detector. 3,454,758, 7-8-69, Cl. 246-169.
Gallagher, Gerald T.: *See*—
Oringer, Kenneth; Gallagher, Gerald T.; Bunin, Donald S.; and Easton, Bernard E.,3,432,546.
Gallagher, Gerard J., 1/2 to Gibson Readymixed Concrete Limited. Mixer vehicle. 3,456,925, 7-22-69, Cl. 259-161.
Gallagher, Hayden E.; and Knauer, Wolfgang, to Hughes Aircraft Company. Thermionic emission cathode having reduced fronthal area and enlarged emission area for ion bombardment environment. 3,439,210, 4-15-69, Cl. 313-337.
Gallagher, Hayden E.: *See*—
Knaur, Wolfgang; and Gallagher, Hayden E.,3,421,039.
Gallagher, John P. Absorbent pad. 3,468,311, 9-23-69, Cl. 128-296.
Gallagher, John P., to Dick, A. B., Company. Air and vacuum control mechanism for a duplicating machine. 3,469,526, 9-30-69, Cl. 101-142.
Gallagher, John P., to Dick, A. B., Company. Rotary sheet feeding and separating assembly. 3,484,099, 12-16-69, Cl. 271-51.
Gallagher, John P.; and Walters, Frederick L., to Thiokol Chemical Corporation. Low friction bearings with improved wear properties. 3,453,208, 7-1-69, Cl. 252-12.
Gallagher, Lee R.; and Lenn, Peter D., to Electro-Optical Systems, Inc. Cold seal lamp pressure regulation. 3,447,030, 5-27-69, Cl. 315-108.
Gallagher, Michael F.: *See*—
Gagher, Bernard J.; Shufflebarger, Earl D.; and Gallagher, Michael F.,3,445,088.
Gallagher, Raymond G.; Mazzoni, Renato J.; and Dauson, Samuel, to PPG Industries, Inc. Insulated curtain wall construction. 3,466,826, 9-16-69, Cl. 52-395.
Gallagher, Robert C.; and Barditch, Irving F., to Westinghouse Electric Corporation. Integrated complementary mos-type transistor structure and method of making same. 3,440,503, 4-22-69, Cl. 317-235.
Gallagher, Robert C.; and Corak, William S., to Westinghouse Electric Corporation. MOS field effect transistor hall effect devices. 3,448,353, 6-3-69, Cl. 314--235
Gallagher, Terence J., to Owens-Illinois, Inc., mesne. Method of sealing fiber optic devices. 3,445,273, 5-20-69, Cl. 117-119.
Gallagher, William C., to Goodyear Tire & Rubber Company. The. Method of forming reinforced rubber tape and helically winding same to form an unvulcanized band. 3,421,958, 1-14-69, Cl. 156-192.
Gallagher, William C., to Goodyear Tire & Rubber Company, The. Reinforced rubber bands, etc.. 3,486,962, 12-30-69, Cl. 156-441.
Gallagher, William J., to Applied Radiation Corporation. Waveguide cooling system for linear accelerator. 3,449,618, 6-10-69, Cl. 315-5.41
Gallaher, John K.: *See*—
Standaart, Adrian W., 3,474,458.
Gallaher, Lee E., to Bell Telephone Laboratories, Incorporated. Sequential access memory system. 3,439,340, 4-15-69, Cl. 340-172.5
Gallamos, Constancio R. One-piece book holder. 3,447,770, 6-3-69, Cl. 248-453.
Gallant, Donald A. Device for producing and regulating a pulsating pneumatic control signal. 3,460,557, 8-12-69, Cl. 137-82.
Gallant, Reginald R., to Olivetti Underwood Corporation. Carbon ribbon supply handling features in a typewriter. 3,464,533, 9-2-69, Cl. 197-151.

Gallant, Reginald R.; and Loftus, Robert M., to Olivetti Underwood Corporation. Overdraft signal controlling devices. 3,476,312, 11-4-69, Cl. 235-60.
Gallaro, Anthony V.; and Mc Kernan, William R., to Sylvania Electric Products, Inc. Cathodoluminescent screens and fabrication thereof. 3,463,686, 8-26-69, Cl. 156-67.
Gallaro, Anthony V.; and Van Noy, Bryce W., to Sylvania Electric Products Inc. Multicolor display screen distinguishing between fixed and moving objects. 3,439,208, 4-15-69, Cl. 313-92.
Gallaugher, Major L.; and Pritchard, James E., to Phillips Petroleum Company. Dialkanol amide anti-static composition for polymers. 3,468,702, 9-23-69, Cl. 117-138.8
Gallay, Harry M.; Mainland, Albert F.; Teumin, Mota; and Yarina, William, to United States of America, Army, mesne. Mechanical, double-integrating accelerometer. 3,464,274, 9-2-69, Cl. 73-490.
Gallay, Jean-Jacques: *See—*
Margot, Alfred; and Gallay, Jean-Jacques,3,453,313.
Gallay, Maurice: *See—*
Toulemonde, Jacques; and Gallay, Maurice,3,469,171.
Gallay, Ralph; and La Penta, Samuel Peter, to Du Pont de Nemours, E. I., and Company. Process for purifying nylon salt solution. 3,439,025, 4-15-69, Cl. 260-501.2
Galle, Edward L., to Pillsbury Company, The. Bottom feed quench dryer apparatus. 3,434,410, 3-25-69, Cl. 99-246.
Galle, Edward L., to Pillsbury Company, The. Process and apparatus for agglomerating particulate materials and high speed mixer therefor. 3,454,263, 7-8-69, Cl. 259-9.
Galle, Edward M., to Hughes Tool Company. Drill bit bearing seal assembly including resiliently mounted rigid ring. 3,467,448, 9-16-69, Cl. 308-8.2
Galle, Edward M., to Hughes Tool Company. Lubricant relief valve for rock bits. 3,476,195, 11-4-69, Cl. 175-228.
Galle, Edward M.; and Woods, Henry B., to Hughes Tool Company. Drilling methods and apparatus employing out-of- phase pressure variations in a drilling fluid. 3,441,094, 4-29-69, Cl. 175-56.
Gallee, George J.; and Novak, Edward J., to Fastener Corporation. Assembly or package of fasteners. 3,463,304, 8-26-69, Cl. 206-56.
Gallee, George J.; Obergfell, Allen R.; and Doyle, Richard H., to Fastener Corporation. Carrier for holding a plurality of fasteners. 3,438,487, 4-15-69, Cl. 206-56.
Galles, Gilbert V. Movable support means. 3,479,632, 11-18-69, Cl. 339-5.
Gallet, Georges; and Guenel, Claude, to Compagnie Generale d'Electricite. Capacitor winding apparatus. 3,425,641, 2-4-69, Cl. 242-56.1
Galli, Remo: *See—*
Minisci, Francesco; Galli, Remo; and Quilico, Adolfo,3,483,255.
Gallie, Daniel G.; and Heskestad, Gunnar. Vehicle air stream antiturbulence mechanism. 3,437,371, 4-8-69, Cl. 296-1.
Gallin, Constantin M., to Blohm & Voss A.G. Hull structure for fast-moving ships. 3,438,350, 4-15-69, Cl. 114-56.
Gallin, Constantin: *See—*
Van Riet, Josef H.; Stummer, Wilfried; Sandmann, Fritz; and Gallin, Constantin,3,440,990.
Gallin, Paul G. Hat with crown shaping and inclination means. 3,473,168, 10-21-69, Cl. 2-195.
Gallina, Kurt, to Main, C. Eugen, Metaverarbeitung G.m.b.H. Flyer for spinning yarn. 3,474,614, 10-28-69, Cl. 57-117.
Gallinger, Jay S., to Galaxie Manufacturing Co. Process for forming serrated flanged pipe. 3,451,243, 6-24-69, Cl. 72-124.
Gallion, Jacque K. Drilling device. 3,464,295, 9-2-69, Cl. 77-55.
Gallion, Walter L.: *See—*
Draper, Cosby A., Jr.; and Gallion, Walter L.,3,428,755.
Gallistel, Albert F., to Pako Corporation. Automatic film feeder. 3,451,604, 6-24-69, Cl. 226-56.
Gallo, Charles F., to Xerox Corporation. Negative corona discharge system using alternating electric fields across the air gap. 3,433,948, 3-18-69, Cl. 250-49.5
Gallo, Charles F.: *See—*
Leiga, Algird G.; Gallo, Charles F.; and Walder, Roy A.,3,474,223.
Roth, Walter; Gallo, Charles F.; and Leiga, Algird G.,3,481,669.
Gallo, E & J, Winery: *See—*
Peterson, Richard G.; and Fujii, George R., 3,437,491.
Peterson, Richard G.; and Jaffe, Emanuel B., 3,484,254.
Gallo, Frank. Method and apparatus for dispensing extra-l packages from machines designed for ordinary length packages. 3,452,900, 7-1-69, Cl. 221-251.
Gallo, John, Sr. Speed tool with guide pin. 3,449,988, 6-17-69, Cl. 81-90.
Gallo, Joseph Sabeto. Cut flower encasing sheath. 3,474,568, 10-28-69, Cl. 47-55.
Gallo, Jules R.; Smith, William W.; and Boissevain, Mathew G., to FMC Corporation. Conveyor system. 3,448,870, 6-10-69, Cl. 214-16.
Gallo, Louis J., 33 1/3 to Epsteen, Peter. Automobile door and window safety lock. 3,435,645, 4-1-69, Cl. 70-183.
Gallo, Mario: *See—*
Wegmann, Lienhard; and Gallo, Mario,3,435,333.
Wirth, Armin; Wirth, Johannes; and Gallo, Mario,3,423,999.
Gallo, Michael S. Portable fog sprayer. 3,426,975, 2-11-69, Cl. 239-341.
Gallois, Jacques, to Societe d'Etudes de Machines Thermiques. Antifretting assembly. 3,455,587, 7-15-69, Cl. 287-189.36
Galloway, Arthur Lyle, to Diamond Shamrock Corporation. Mildew eradicant compositions. 3,456,055, 7-15-69, Cl. 424-304.
Galloway, G. W., Company: *See—*
Galloway, George W.; and Nofzinger, Earl E., 3,440,710.
Galloway, George W.; and Blanchard, Albert E., 3,468,398.
Galloway, George W.; and Blanchard, Albert E., to Galloway, G. W., Company. Multistage linear motor with means for locking the stages thereof against relative rotary movement. 3,468,398, 9-23-69, Cl. 182-141.
Galloway, George W.; and Nofzinger, Earl E., to Galloway, G. W., Company. Method of fabricating a continuous rod warhead assembly. 3,440,710, 4-29-69, Cl. 29-471.9
Galloway, J. Robert; and Galloway, Robert K. Carton. 3,432,086, 3-11-69, Cl. 229-37.
Galloway, James. Device for reducing the evaporation of water from dams, tanks and like water storage units. 3,462,040, 8-19-69, Cl. 220-26.
Galloway, Louie A., Jr. Barbecue grill and the like. 3,438,364, 4-15-69, Cl. 126-25.
Galloway, Robert K.: *See—*
Galloway, J. Robert; and Galloway, Robert K.,3,432,086.
Galloway, Robert K. Apparatus for transferring articles from one station to another. 3,456,816, 7-22-69, Cl. 214-8.5
Galloway, Victor A., to Equipment Manufacturing, Inc. Sheet material palletizing apparatus. 3,433,372, 3-18-69, Cl. 214-6.
Gallucci, Francis: *See—*
Britcher, Harry H., Jr.; and Gallucci, Francis,3,459,312.
Gallucci, Francis, to United States Steel Corporation. Starter bar for continuous metal casting apparatus. 3,448,789, 6-10-69, Cl. 164-274.
Gallus, Geza. Apparatus for kneading and shaping lumps of dough. 3,461,821, 8-19-69, Cl. 107-15.
Gallus, Julius P., to Union Oil Company of California. Low fluid loss well treating composition and method. 3,455,390, 7-15-69, Cl. 166-295.
Galmiche, Philippe Marie; and Hivert, Andre, to Office National d'Etudes et de Recherches Aerospatiales, O.N.E.R.A. Methods of making alloy powders and the corresponding powders. 3,449,115, 6-10-69, Cl. 75-0.5
Galopin, Anthony G. Photoelectric semiconductor device with optical fiber means coupling input signals to base. 3,423,594, 1-21-69, Cl. 250-211.
Galster, Thomas H.; and Michaels, Thomas B., to Xerox Corporation. Flash lamp for electroscopic toner. 3,465,203, 9-2-69, Cl. 315-173.
Galt, Ronald Hilson Begg, to Imperial Chemical Industries Limited. Derivatives of 5-hydroxyquinoxaline-1,4 dioxide. 3,479,354, 11-18-69, Cl. 260-250.
Galutia, Glen T. Precision countersink tool. 3,439,566, 4-22-69, Cl. 77-73.5
Galutia, Glen T. Riveting gun bucker attachment. 3,478,567, 11-18-69, Cl. 72-457.
Galvin, Daniel M.; and Galvin, Patrick J. Retractable truck box cover. 3,423,126, 1-21-69, Cl. 296-98.
Galvin, Patrick J.: *See—*
Galvin, Daniel M.; and Galvin, Patrick J.,3,423,126.
Gambardella, Mario A.; Jache, Albert W.; and Kongpricha, Santad, to Olin Mathieson Chemical Corporation. Preparation of chlorine monofluoride. 3,446,592, 5-27-69, Cl. 23-205.
Gambaretto, Gian Paolo; Rinaldo, Paolo; and Palato, Mario, to Montecatini Edison S.p.A. Flame-extinguishing compositions. 3,479,286, 11-18-69, Cl. 252-8.
Gambella, George; and Gambella, Thomas, to Web Offset Publications Corporation. Water dampening system with soft driven wheels and hard drive wheels. 3,455,238, 7-15-69, Cl. 101-148.
Gambella, Thomas: *See—*
Gambella, George; and Gambella, Thomas,3,455,238.
Gambella, Vincent; and Daniel, Nathan I., to Danelectro Corporation, The, mesne. Bridge construction in guitar-like instruments. 3,422,715, 1-21-69, Cl. 84-307.
Gamber, Erwin J.; and Rauschenbach, Roger R., to Aluminum Company of America. Refractory composition. 3,436,236, 4-1-69, Cl. 106-56.
Gamberg, Edward R.: *See—*
Rebuffoni, Martin; and Gamberg, Edward R.,3,440,395.
Gamberini, Goffredo, to American Machine & Foundry Company. Automatic cigarette catcher. 3,427,782, 2-18-69, Cl. 53-78.
Gambette, Rene: *See—*
Chaplais, Henri; Pillon, Lucien; Carre, Georges P.; Rips, Lucien; and Gambette, Rene,3,423,152.
Gambill, Charles C., to General Motors Corporation. Temperature responsive magnetically actuated switch. 3,430,166, 2-25-69, Cl. 335-146.
Gambill, Charles C., to General Motors Corporation. Infinite heat control with quick heating. 3,474,227, 10-21-69, Cl. 219-450.

Gambino, Lawrence A.Children's build-it-yourself toy. 3,473,257, 10-21a69, Cl. 46-104.
Gamble, Elton S., to Olin Mathieson Chemical Corporation. Coating composition. 3,464,839, 9-2-69, Cl. 106-57.
Gamble, George W. Paramagnetic fluid analyzer utilizing toroidal fluid containers and an inductance bridge. 3,447,073, 5-27-69, Cl. 324-36.
Gamble, James R., to Westinghouse Electric Corporation. Joint constructions. 3,437,554, 4-8-69, Cl. 161-206.
Gamble, Robert O.: *See—*
Eldridge, Clare W.; Long, Charles W.; and Gamble, Robert O.,3,457,715.
Gamblin, Elton Berry, Jr. Drinking straws. 3,438,527, 4-15-69, Cl. 215-1.
Gamblin, Rodger L.: *See—*
Akmenkalns, Ivars G.; Gamblin, Rodger L.; and Lord, Philip A.,3,461,441.
Gamblin, Rodger L., to International Business Machines Corporation. Phase sensitive microwave memory device. 3,444,539, 5-13-69, Cl. 340-174.
Gamblin, Rodger L., to International Business Machines Corporation. Microwave logic system. 3,452,212, 6-24-69, Cl. 307-88.
Gamblin, Rodger L., to International Business Machines Corporation. Monostable controlled rectifier switching circuit with variable impedance for low power dissipation and rapid recovery. 3,458,730, 7-29-69, Cl. 307-273.
Gamblin, Rodger L., to International Business Machines Corporation. Thin film microwave absorption structure. 3,466,634, 9-9-69, Cl. 340-174.
Gamblin, Rodger L.; and Lord, Philip A., to International Business Machines Corporation. Memory addresser in a microwave readout system. 3,423,741, 1-21-69, Cl. 340-174.
Gamblin, Rodger L.; and Lord, Philip A., to International Business Machines Corporation. Microwave absorption memory system. 3,452,340, 6-24-69, Cl. 340-174.
Gamblin, Rodger L.; Lord, Philip A.; Welch, Elvin C.; and Tunis, Cyril J., to International Business Machines Corporation. Microwave logic circuit. 3,452,213, 6-24-69, Cl. 307-88.
Gambro, John: *See—*
Newman, Julian; Caspers, John; Gambro, John; and Freiling, Jerome G.,3,487,006.
Gambs, Paul Frederic Marie. Ophthalmological slit lamp. 3,433,560, 3-18-69, Cl. 351-14.
Game-Time, Inc.: *See—*
Wormser, Robert S., 3,462,895.
Gamelcy, Lionel; and Tischler, Henry J., to Young Spring & Wire Corporation. Spring seat construction. 3,428,975, 2-25-69, Cl. 5-354.
Gamertsfelder, Allen M. Bean bag game projectile. 3,480,280, 11-25-69, Cl. 273-106.
Gamertsfelder, George R.: *See—*
Flower, Robert A.; Stavis, Gus; and Gamertsfelder, George R.,3,432,237.
Gamertsfelder, George R., to General Precision Systems, Inc. Method and means for eliminating beam reflection errors in a doppler radar system. 3,430,236, 2-25-69, Cl. 343-7.
Gamertsfelder, George R., to Singer-General Precision, Inc. Azimuth alignment system. 3,485,560, 12-23-69, Cl. 356-151.
Games, Abraham, to Imagic Limited. Copying processes. 3,463,654, 8-26-69, Cl. 117-21.
Gameson, John Jeffreys, to Telefonaktiebolaget L M Ericsson. Transistor amplifier. 3,469,201, 9-23-69, Cl. 330-15.
Gamlen, George Albert; and Ibbotson, Arthur, to Imperial Chemical Industries Limited. Process for manufacturing urethanes from alcohols and phenols, carbon monoxide and nitro compounds in the presence of transition metal complexes. 3,448,140, 6-3-69, Cl. 260-471.
Gamlen, George Albert; and Ibbotson, Arthur, to Imperial Chemical Industries Limited. Process for manufacture of urethanes from hydroxyl group containing compound, nitrogenous compound and carbon monoxide in presence of transition metal compound. 3,454,620, 7-8-69, Cl. 260-471.
Gamma Engineering Limited: *See—*
Vertesi, Tibor Miklos; and Philipps, Bruce Allan, 3,480,211.
Gamma Inventions (PTY) Limited: *See—*
Brunton, Phillip E., 3,485,496.
Gammel, Josef, to Siemens Aktiengesellschaft. Discriminator with linear characteristic curve utilizing a bridge circuit having a branch contain- ing an inductive reactor and a branch containing a capacitive reactor. 3,421,094, 1-7-69, Cl. 329-137.
Gammel, Josef, to Siemens Aktiengesellschaft. Circuit arrangement for the reduction of inter- ference phase modulation occuring in transistor limiting stages by amplitude-modulated frequency modulation. 3,461,398, 8-12-69, Cl. 330-165.
Gammel, Josef; and Huggle, Kurt, to Siemens Aktiengesellschaft. Adjustable four-pole attenuator with constant input resistance utilizing separately heated thermistors. 3,437,933, 4-8-69, Cl. 325-415.
Gammel, Walter A., Sr.; and Strobel, John S., to Schjeldahl, G. T., Company. Demountable electrical contact arrangement. 3,437,977, 4-8-69, Cl. 339-17.
Gammeter, Harry F., to Addressograph-Multigraph Corporation. Master handling means for duplicating machines. 3,420,169, 1-7-69, Cl. 101-141.
Gammon, William: *See—*
La Mers, Herbert, 3,472,218.
Gammons, Robert T., to Wright, E. T. & Co., Inc. Method of attaching cleats to shoe bottoms. 3,480,979, 12-2-69, Cl. 12-142.
Gamponia, Herminio. Surgical apparatus and related process. 3,435,824, 4-1-69, Cl. 128-334.
Gamson, Bernard W., to Technical Oil Tool Corporation. Continuous percent evaporated analyzer. 3,440,865, 4-29-69, Cl. 73-61.3
Gancy, Alan B.: *See—*
Di Bello, Patrick M.; and Gancy, Alan B.,3,482,934.
Gander, Robert J., to Johnson & Johnson. Adhesive composition. 3,475,363, 10-28-69, Cl. 260-29.7
Gandi, Robert A., to Dickinson, Becton and Company. Fluid head indicator for enema administration set. 3,463,153, 8-26-69, Cl. 128-227.
Gandilhon, Pierre: *See—*
Chabardes, Pierre; Gandilhon, Pierre; Thiers, Michel; and Grard, Charles,3,449,387.
Gandino, Mario; Merli, Paolo; and Turilli, Oreste, to Ferrania S.p.A. Sensitized silver halide emulsions. 3,443,955, 5-13-69, Cl. 96-102.
Gandolfi, Carmelo: *See—*
de Ruggeri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,481,924.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,458,502.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,484,435.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,485,826.
Gandolfo, Jean Marie; and Rouillard, Jean, to European Atomic Energy Community (Euratom). Working chamber or glovebox. 3,456,812, 7-22-69, Cl. 214-1.
Gandon, Louis: *See—*
Talet, Pierre; and Gandon, Louis,3,429,651.
Gandy, Mack C.: *See—*
Gandy, Mack C.; and Miller, John E., 3,457,724.
Gandy, Mack C.; and Miller, John E., to Gandy, Mack C., d/b/a Safety Equipment Manufacturing Company. Cooling device for engine exhaust conduits. 3,457,724, 7-29-69, Cl. 60-31.
Gane, Charles E., to United States of America, Navy, mesne. Operational thin film amplifier. 3,449,683, 6-10-69, Cl. 330-21.
Ganev, Petar Levtchev: *See—*
Slavov, Ivan Atanassov; Daskalov, Kiril Dimitrov; Ganev, Petar Levtchev; Mandjakov, Stefan Petrov; and Barzakov, Petko Ivanov,3,435,669.
Gang, Herman, to Litton Business Systems, Inc. Programming means for calculators. 3,458,125, 7-29-69, Cl. 235-62.
Gang, Herman, to Litton Business Systems, Inc. Registering mechanism. 3,472,450, 10-14-69, Cl. 235-137.
Gang, Lillian: *See—*
Calabrese, Joseph J.; and Gang, Lillian,3,436,163.
Gang, Robert E., to Varian Associates. Magnets having logarithmic curved pole caps for producing uniform fields above saturation. 3,434,085, 3-18-69, Cl. 335-297.
Gang, Robert E., to Varian Associates. Oven regulated permanent magnet having thermal lagging between the oven and the magnet. 3,474,222, 10-21-69, Cl. 219-210.
Gang, Robert E.; and Johnson, Richard L., to Varian Associates. Permanent magnet having an enclosing yoke structure with pole aligning means. 3,437,963, 4-8-69, Cl. 335-298.
Gange, Robert A., to Radio Corporation of America. Cryoelectric memory system. 3,434,121, 3-18-69, Cl. 340-173.1
Gange, Robert A.; and Nagle, Eugene, to RCA Corporation. Balanced matrix driver arrangement. 3,483,517, 12-9-69, Cl. 340-166.
Gange, Robert A.; and Thompson, John F., to Radio Corporation of America. Highly stable pulse generator. 3,430,075, 2-25-69, Cl. 307-268.
Ganger, Berthold, to Aktiengesellschaft Brown, Boveri & Cie. Insulation of bar type conductor coils of high- voltage stator windings. 3,454,804, 7-8-69, Cl. 310-260.
Ganger, Ronald N., to Blueberry Equipment, Inc. Vibratory harvesting machine. 3,485,027, 12-23-69, Cl. 56-330.
Gangitano, James. Display board apparatus. 3,473,671, 10-21-69, Cl. 211-45.
Gangloff, Jean. Pump. 3,476,054, 11-4-69, Cl. 103-87.
Ganiaris, Neophytos: *See—*
Grover, Kenneth M.; and Ganiaris, Neophytos,3,431,655.
Ganiere, Herbert Carl; and Sherwood, Edwin Theodore, to Globe-Union Inc. Multiple temperature controller. 3,470,356, 9-30-69, Cl. 219-508.
Ganko, Otto, to Patentauswertung Vogelbusch Gesellschaft m.b.H. Mixture proportioning apparatus. 3,425,501, 2-4-69, Cl. 177-70.

Ganley, Gregory J., to Honeywell Inc. Control apparatus. 3,458,678, 7-29-69, Cl. 200-166.
Ganley, Gregory J., to Honeywell Inc. Control apparatus. 3,465,709, 9-9-69, Cl. 116-129.
Gann Apparate- und Maschinenbau G.m.b.H.: *See*—
Klinkmuller, Horst; and Hirth, Friedrich, 3,474,545.
Gannett, Chauncey W.: *See*—
Stefan, Frank N.; and Gannett, Chauncey W.,3,458,057.
Gannoe, Thomas Earl, to Sylvania Electric Products, Inc. Localized flow plating. 3,462,350, 8-19-69, Cl. 204-15.
Gannon, Joseph A.: *See*—
Buell, Heinz; Gannon, Joseph A.; and Rubin, Jack,3,432,856.
Gannon, Raymond J., Jr. Multiform chuck. 3,430,970, 3-4-69, Cl. 279-112.
Ganouna-Cohen, Gilbert, to Commissariat a l'Energie Atomique. Electrometer with automatic discharge. 3,436,542, 4-1-69, Cl. 250-83.6
Gans, Jerome A. Visual field tester. 3,421,498, 1-14-69, Cl. 128-2.1
Gans, Jerome A., to Mt. Sinai Hospital of Cleveland, The. Cryoextractor. 3,455,304, 7-15-69, Cl. 128-303.1
Gansauge, Albert, to VEB Fahrradwerk Elite-Diamant. Thread alternating device for flat knitting machines. 3,472,047, 10-14-69, Cl. 66-64.
Ganser, Hans Gunther; Kauer, Erhard; and Lydtin, Hans Jurgen, to U.S. Philips Corporation, mesne. Series flash-lamp unit. 3,458,270, 7-29-69, Cl. 431-95.
Ganske, Kingston E.: *See*—
Barnett, Don Carlos; and Ganske, Kingston E.,3,482,800.
Ganske, Warren L.; Stein, Jolyon A.; Gidlow, Rolf G.; and McCarron, Fred H., to Pillsbury Company, The. Instant drink mix. 3,433,644, 3-18-69, Cl. 99-78.
Gansser, Charles; and Schindler, Walter, to Geigy Chemical Corporation. 5-(α-Dimethylamino-n-butyl) iminostilbene and salts thereof. 3,444,159, 5-13-69, Cl. 260-239.
Gant, Orland J., Jr.: *See*—
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L.,3,484,608.
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L.,3,484,609.
Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, Hans-Joachim; Bornefeld, Horst; and Deissmann, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Readily dispersible inorganic pigments. 3,451,835, 6-24-69, Cl. 106-308.
Ganter, Wolfgang; and Assmus, Friedrich, to Gebruder Jughans Gesellschaft mit beschrankter Haftung. Tuning fork devices. 3,456,137, 7-15-69, Cl. 310-25.
Ganter, Wolfgang; and Assmus, Friedrich, to Gebruder Junghans Gesellschaft mit beschrankter Haftung. Tuning fork devices. 3,485,034, 12-23-69, Cl. 58-23.
Ganter, Wolfgang; and Assmus, Friedrich, to Gebruder Junghans Gesellschaft mit beschrankter Haftung. Tuning fork devices. 3,485,035, 12-23-69, Cl. 58-23.
Gantert, Raymond A.: *See*—
Hager, Donald L.; and Gantert, Raymond A.,3,486,456.
Ganther, Robert Joseph: *See*—
Riordan, Hugh E.; and Ganther, Robert Joseph,3,469,456.
Gantke, Franz: *See*—
Zywietz, Walter; Gantke, Franz; Seiz, Rudolf; Lichtenbaumer, Hans-Gunther; and Neeff, Joachim,3,438,211.
Gantner, George E., Jr. Optical coincidence data analysis system. 3,480,763, 11-25-69, Cl. 235-61.12
Gantress, Steven G. Rifle cover. 3,437,247, 4-8-69, Cl. 224-2.
Gantt, James E., to Universal Oil Products Company. Separation process for alkylated aromatic compounds and olefinic oligomerization products. 3,437,708, 4-8-69, Cl. 260-671.
Gantt, James E.; and Borst, William B., Jr., to Universal Oil Products Company. Fractionation column system operating with multiple level internal reboilers. 3,477,915, 11-11-69, Cl. 202-155.
Gantt, James E.; and Sulzbach, Thomas L., to Universal Oil Products Company. Process for aromatic alkylation and olefinic oligomerization. 3,437,706, 4-8-69, Cl. 260-671.
Gantt, Robert Dwight; and Wheeler, Robert Charles, to Sylvania Electric Products, Inc. Noise-gated sync separator and AGC for television receiver. 3,463,881, 8-26-69, Cl. 178-7.3
Gantz, Ray D., to Taylor, S. G., Chain Company, Inc. Heat transfer elements for rotary kilns. 3,442,497, 5-6-69, Cl. 263-33.
Gantz, William A., to University of California, The Regents of the. Color modulator system. 3,445,156, 5-20-69, Cl. 350-285.
Gantz, William A.; Runkle, Raymond B.; and Buchla, Donald F., to Bausch & Lomb, Incorporated, mesne. Radiation sensitive digital measuring apparatus. 3,453,441, 7-1-69, Cl. 250-231.
Gantzer, Charles J., to Sundstrand Corporation. Spur differential unit. 3,430,520, 3-4-69, Cl. 74-714.
Ganung, Robert B., to National Can Corporation. Can end. 3,441,180, 4-29-69, Cl. 222-143.
Ganz, Alexander J., to Hercules Incorporated. Edible compositions and process. 3,479,190, 11-18-69, Cl. 99-139.
Ganz, Alexander J., to Hercules Incorporated. Water-soluble cellulose ether or starch compositions. 3,485,651, 12-23-69, Cl. 106-179.
Ganz, Dietrich: *See*—
Assmus, Fritz; Boll, Richard; Detert, Klaus; Ganz, Dietrich; Ibe, Gerhard; and Pfeifer, Friedrich,3,466,201.
Ganz, Henry, to Continental Can Company, Inc. Carrier with center divider. 3,424,302, 1-28-69, Cl. 206-65.
Ganz, Henry, to Lorillard Corporation. Apparatus for making cigarette filters. 3,452,392, 7-1-69, Cl. 18-5.
Ganz, Robert H. Method of and apparatus for forming a package. 3,456,420, 7-22-69, Cl. 53-32.
Ganz, Robert H., to Continental Can Company, Inc. Carton, method of and apparatus for forming a package therewith. 3,474,590, 10-28-69, Cl. 53-32.
Ganz Villamossagi Muvek: *See*—
Gering, Tibor; Kloiber, Gyorgy; and Lengyel, Zoltan, 3,457,439.
Wallenstein, Mihaly, 3,465,183.
Ganzina, Fabrizio: *See*—
Gigante, Pietro; Antoniu, Demetrio; Ganzina, Fabrizio; Magi, Mario; and Serino, Enrico,3,467,705.
Gaponov, Vasily Alexandrovich: *See*—
Abramyan, Evgeny Aramovich; Vasserman, Sakko Borisovich; Gaponov, Vasily Alexandrovich; and Krainov, Gennady Sergeevich,3,450,996.
Gar Wood Industries, Inc.: *See*—
Aske, Charles B., Jr.; and Wood, Edward L., 3,436,123.
O'Brien, Angus J., 3,440,763.
O'Brien, Angus J.; and McCarthy, John, 3,486,646.
Spisak, Edward C., 3,432,206.
Spisak, Edward G., 3,465,786.
Gar-Kenyon Instruments, Inc.: *See*—
Fettke, John M., 3,472,274.
Garabello, Romano, to Metropolitan Petroleum Petrochemicals Co., Inc., mesne. Plunger type additive injection device. 3,422,834, 1-21-69, Cl. 137-99.
Garabello, Romano, to Metropolitan Petrochemicals Co., Inc., mesne. Rotary oscillating piston pump additive injection device for fluid delivery system. 3,425,435, 2-4-69, Cl. 137-99.
Garasi, Louis A.: *See*—
Medved, David B.; and Garasi, Louis A.,3,445,926.
Garasi, Louis; Kaye, Stephen; and Medved, David B., to Electro-Optical Systems, Inc. Method for detection of ultraviolet radiation. 3,445,660, 5-20-69, Cl. 250-83.3
Garaud, Jean Pierre, to Societe Rhodiaceta. Apparatus for transforming a rotary motion into an alternating linear movement. 3,465,602, 9-9-69, Cl. 74-58.
Garber, Howard A. Ice dispensing machine. 3,463,362, 8-26-69, Cl. 222-254.
Garber, John A.; Leaman, Theodore R.; and Skelly, David C., to Harbison-Walker Refractories Company. Bottom pour ladle construction. 3,421,749, 1-14-69, Cl. 266-38.
Garber, John D.; and Jones, Robert E., to Merck & Co., Inc. Method for producing 5-hydroxymethyl furfural. 3,483,228, 12-9-69, Cl. 260-347.8
Garber, Lila S. Holder for superposed business forms. 3,480,298, 11-25-69, Cl. 282-29.
Garber, Max J. Limb restraint for intravenous injections and the like. 3,480,013, 11-25-69, Cl. 128-133.
Garber, Nat; and Friedman, Sidney. Article of apparel usable as dickey or as head covering. 3,449,766, 6-17-69, Cl. 2-196.
Garber, Thomas; and Kelleher, William L., to Hewlett-Packard Company. Universal AC or DC to DC converter. 3,434,034, 3-18-69, Cl. 321-43.
Garber, Thomas; Miller, Arthur; and Kelch, David E., to Hewlett-Packard Company. Differential frequency transducer. 3,421,106, 1-7-69, Cl. 331-40.
Garberi, Angelo: *See*—
Ferrari, Gianfranco; and Garberi, Angelo,3,476,801.
Longiave, Carlo; Castelli, Renato; Andreetta, Alberto; and Garberi, Angelo,3,420,899.
Garbers, Ernst; Klotzek, Theodor; and Spingies, Erwin. Deformable railway wheel brake. 3,439,778, 4-22-69, Cl. 188-62.
Garbin, Albert J.: *See*—
Marzocchi, Alfred; and Garbin, Albert J.,3,469,512.
Garbin, Alfred J.: *See*—
Marzocchi, Alfred; and Garbin, Alfred J.,3,473,400.
Garbuglio, Carmine: *See*—
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine,3,436,194.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine,3,458,280.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine,3,458,292.
Garbuny, Max, to Westinghouse Electric Corporation. Radiation regulating system. 3,473,864, 10-21-69, Cl. 350-160.
Garcia, Armando J.: *See*—
Arnao, Joseph F.; Fitz Gerald, Robert E.; and Garcia, Armando J.,3,460,088.
Garcia, Bartolome; and Head, Billy D., to Dow Chemical Company, The. Alkylation process. 3,448,161, 6-3-69, Cl. 260-671.
Garcia, Bonifacio: *See*—
Quinones, Carlos M.; and Garcia, Bonifacio,3,453,655.

Garcia, Calixto F., to Jackson, Byron, Inc. Liquid preflush composition and use thereof in acidizing earth formations. 3,421,585, 1-14-69, Cl. 166-42.
Garcia, Henri, to Centre National de la Recherche Scientifique. Preparation of solid, dry hydrazine reactant and method for preparation cycloheptasulfimide. 3,447,911, 6-3-69, Cl. 23-357.
Garcia, Joseph R.: *See—*
Chiou, Charles; and Garcia, Joseph R.,3,428,866.
Garcia, Lloyd J.: *See—*
Cox, George W.; Garcia, Lloyd J.; and Reyes, Edward,3,476,270.
Garcia Oller, Jose L. Radiological apparatus wherein the X-ray source is mounted for rotational and straight-line movement. 3,449,569, 6-10-69, Cl. 250-50.
Garcia, Pedro Arnau. Shoes and like footwear and components thereof. 3,475,837, 11-4-69, Cl. 36-24.5
Garcia, Rafael: *See—*
Kerseg, Kurt Carl; and Garcia, Rafael,3,483,309.
Garcia, Salvador A. Dual driver controls of the cable type for vehicles with automatic or standard transmissions. 3,477,310, 11-11-69, Cl. 74-562.5
Garcin, Maurice M.P.: *See—*
Gauthier, Adrien; and Garcin, Maurice M.P.,3,480,481.
Garcy Corporation: *See—*
Bergman, Frank C., 3,427,054.
Metelnick, John W., 3,429,090.
Gard, Gary Lee: *See—*
Woolf, Cyril; and Gard, Gary Lee,3,448,121.
Gilbert, Everett E.; and Gard, Gary L.,3,475,453.
Gardco Industries, Inc.: *See—*
Summerville, Donald V., Jr., 3,480,243.
Gardel, Robert; and Gorsky, Egon, to Lettam, Inc. Walking doll mechanism. 3,421,258, 1-14-69, Cl. 46-247.
Gardel, Robert; and Gorsky, Egon, to Lettam, Inc., mesne. Doll part actuating mechanism with cam causing stopping in a particular position. 3,455,052, 7-15-69, Cl. 46-135.
Gardel, Robert; and Gorsky, Egon, to Mattel, Inc. Baby doll walking mechanism. 3,456,384, 7-22-69, Cl. 46-247.
Gardel, Robert; and Gorsky, Egon, to Ideal Toy Corporation. Bobbing head doll. 3,465,474, 9-9-69, Cl. 46-164.
Gardel, Robert; and Gorsky, Egon, to Lettam, Inc. Doll walking mechanism. 3,468,056, 9-23-69, Cl. 46-149.
Gardel, Robert; and Gorsky, Egon, to Lettam, Inc. Doll sound producing mechanism with head movement. 3,477,169, 11-11-69, Cl. 46-118.
Gardel, Robert; and Gorsky, Egon, to Lettam, Inc. Magnetic switch. 3,487,346, 12-30-69, Cl. 335-205.
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S., to Dollac Division, Jacoby-Bender, Inc. Winking and blinking doll eyes and actuation therefor. 3,429,068, 2-25-69, Cl. 46-169.
Gardella, Anthony, to Varityper Corporation. Variable impression. 3,485,336, 12-23-69, Cl. 197-49.
Gardella, John M.: *See—*
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,473,845.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,482,072.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,486,789.
Garden City Envelope Company: *See—*
Dohnalik, Joseph J., 3,450,009.
Gardena Rubber Company: *See—*
Connealy, Hugh M., 3,426,789.
Gardenhire, Lawrence W.; and Woolf, Ashby M., to Radiation Incorporated. Digital data redundancy reduction methods and apparatus. 3,478,266, 11-11-69, Cl. 325-38.
Gardeniers, Jan G.: *See—*
Jongbloed, Johannes; Gardeniers, Jan G.; Nusser, Hubertus W.; and Peeters, Pierre H.,3,469,323.
Gardeux, Gerard: *See—*
Boueil, Raymond; and Gardeux, Gerard,3,431,029.
Boueil, Raymond; and Gardeux, Gerard,3,431,030.
Boueil, Raymond; and Gardeux, Gerard,3,441,108.
Boueil, Raymond; and Gardeux, Gerard,3,441,319.
Gardi, Rinaldo; and Castelli, Pier Paolo, to Warner-Lambert Pharmaceutical Company, mesne. Process for preparing ethers of 1α-hydroxy-3-keto- 5α-steroids and intermediates therein. 3,475,467, 10-28-69, Cl. 260-397.45
Gardiner, Allan K.: *See—*
Cambridge, Ronon M.; and Gardiner, Allan K.,3,440,556.
Gardiner, George H. Adjustable height golf tee and target member. 3,467,390, 9-16-69, Cl. 273-183.
Gardiner, James R.: *See—*
Regh, Joseph; Silvey, Gene A.; and Gardiner, James R.,3,436,259.
Gardiner, Joe N. Fork truck overhead guard. 3,482,869, 12-9-69, Cl. 296-102.
Gardiner, John B.; and Passannante, Anthony J., to Esso Research and Engineering Company. Acrylates of NF_2-containing polyethers. 3,441,549, 4-29-69, Cl. 260-88.3
Gardiner, Michael C. S.: *See—*
Turner, Darrell J.; Chase, Charles A.; and Gardiner, Michael C. S.,3,430,900.
Gardiner, Murray S. Inked embossment marking device. 3,446,141, 5-27-69, Cl. 101-18.
Gardiner, Ralph G., to FMC Corporation. Container orienting apparatus. 3,420,354, 1-7-69, Cl. 198-33.
Gardiner, Robert F. Metal detector including a Hartley oscillator with field effect transistor and delayed automatic amplitude stabilizing feedback. 3,453,532, 7-1-69, Cl. 324-33.
Gardiner, Roy W.; Melville, Victor J.; and Yager, Norman J., to Bailey Meter Company. Electric differential pressure transmitter. 3,461,725, 8-19-69, Cl. 73-393.
Gardiner Sons & Company Limited: *See—*
Perry, Reginald H. B., 3,472,273.
Gardiner, Terence Edward Gouvenot; and Fuller, John Rodney Dyson, to Bristol Siddeley Engines Limited. Variable area duct. 3,433,244, 3-18-69, Cl. 137-221.
Gardner, Brian George; and Runchman, David John. Self-adjusting clutch assembly. 3,468,405, 9-23-69, Cl. 192-111.
Gardner, Charles S. Electrical heating attachment for aerosol cans. 3,437,791, 4-8-69, Cl. 219-301.
Gardner, Charles Victor, to Parker-Hannifin Corporation. Fueling nozzle. 3,472,482, 10-14-69, Cl. 251-89.5
Gardner, Charles W.: *See—*
Nichols, Charles A.; Joyce, Alexander H.; Gardner, Charles W.; and Fletcher, William A.,3,455,371.
Gardner, Charles W.; and Barbee, Gail G., to Caterpillar Tractor Company. Material handling fork. 3,477,601, 11-11-69, Cl. 214-767.
Gardner, Clayton H. Code card comparing device. 3,450,953, 6-17-69, Cl. 317-134.
Gardner, Clayton. Code card actuation apparatus. 3,458,671, 7-29-69, Cl. 200-46.
Gardner, Clayton. Conicograph. 3,486,233, 12-30-69, Cl. 33-27.
Gardner, Cyril; Prescott, John Fraser; and Randal, George Arthur, to Imperial Chemical Industries Limited. Oxidation of cyclohexane. 3,428,690, 2-18-69, Cl. 260-610.
Gardner, David Milton; and Helitzer, Robert, to Pennsalt Chemicals Corporation. N-Fluoro-derivatives of alkyl substituted piperidines. 3,467,661, 9-16-69, Cl. 260-293.
Gardner, David M.; Oesterling, Robert E.; and Tyczkowski, Edward A., to Pennsalt Chemicals Corporation. Fluoronitroalkanes and method. 3,441,619, 4-29-69, Cl. 260-644.
Gardner, Delbert J., to Bendix Products Automotive. Vehicle brake fluid pressure monitor system. 3,439,322, 4-15-69, Cl. 340-52.
Gardner, Donald J.: *See—*
Sawyer, Willard Hall; Long, Robert B.; and Gardner, Donald J.,3,441,377.
Gardner, Donald S.; and Wadsworth, Clarence K., to United States of America, Army. Low temperature irradiation treatment of dehydrated potatoes. 3,463,643, 8-26-69, Cl. 99-104.
Gardner, Earl E.: *See—*
Hackett, John W.; and Gardner, Earl E.,3,476,079.
Gardner, Edward Boyd: *See—*
Spurr, Robert; and Gardner, Edward Boyd,3,483,971.
Gardner, Edward E.; Gorey, Edward F.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing, to International Business Machines Corporation. Measurement of semiconductor resistivity profiles by measuring voltages, calculating apparent resistivities and applying correction factors. 3,487,301, 12-30-69, Cl. 324-64.
Gardner, Edward Merrill, to Merrill Brothers. Plate lifting clamp with locking mechanism. 3,441,308, 4-29-69, Cl. 294-101.
Gardner, Frederick H., to North American Rockwell Corporation. System for measuring direction and velocity of currents in a liquid medium. 3,435,677, 4-1-69, Cl. 73-189.
Gardner, George S., to Amchem Products, Inc. Corrosion prevention process. 3,466,192, 9-9-69, Cl. 134-3.
Gardner, Henry H., to Ethyl Corporation. Apparatus for surface grinding generally spherical elements. 3,484,996, 12-23-69, Cl. 51-33.
Gardner, Henry J.: *See—*
Gehring, Arthur J.; Gardner, Henry J.; Braxton, James L.; and Crellin, Edwin W.,3,465,866.
Gardner, J. Starkie, Limited: *See—*
Bennett, John Stanley William, 3,422,924.
Gardner, Jack H.: *See—*
Puletti, Paul P.; and Gardner, Jack H.,3,425,981.
Gardner, John B.; Smith, Charles F.; and Harper, Billy G., to Dow Chemical Company, The. Apparatus for the production of polymers by irradiation. 3,472,752, 10-14-69, Cl. 204-193.
Gardner, John D. L. Sandwich cooking and dispensing machine. 3,482,509, 12-9-69, Cl. 99-357.
Gardner, John F., to Xerox Corporation. Exposure control device. 3,432,231, 3-11-69, Cl. 355-8.
Gardner, John F.; Michaels, Thomas B.; and Taillie, Gordon P., to Xerox Corporation. Document transport and registration system using photocells. 3,473,035, 10-14-69, Cl. 250-219.
Gardner, John N., to Schering Corporation. 17α-Oxa-D-homopregnanes and methods for their manufacture. 3,467,677, 9-16-69, Cl. 260-345.2

Gardner, John W. Variable lead compressor. 3,424,373, 1-28-69, Cl. 230-143.
Gardner, Kenneth; and Wightman, Donald A., to Hale & Associates Limited. Portable invalid wheelchairs. 3,442,532, 5-6-69, Cl. 280-250.
Gardner, Lloyd E., to Phillips Petroleum Company. Catalysts for the production of fluoroalkenes and fluoroalkapolyenes. 3,432,441, 3-11-69, Cl. 252-441.
Gardner, Lloyd E., to Phillips Petroleum Company. Dehydrofluorination process and products. 3,432,562, 3-11-69, Cl. 260-653.5
Gardner, Lloyd E., to Phillips Petroleum Company. Production of gem-difluoroalkenes. 3,444,251, 5-13-69, Cl. 260-653.5
Gardner, Lloyd E., to Phillips Petroleum Company. Preparation of difluoroalkenes. 3,456,025, 7-15-69, Cl. 260-653.5
Gardner, N B. Snow surfer. 3,446,512, 5-27-69, Cl. 280-12.
Gardner, Newell J.; and Lastinger, William R. Emergency door opener for automobiles. 3,479,767, 11-25-69, Cl. 49-280.
Gardner, Orville N. Tube bending apparatus. 3,465,560, 9-9-69, Cl. 72-32.
Gardner, Pete D.: *See*—
Payne, Jimmie S., Jr.; and Gardner, Pete D.,3,461,100.
Gardner, Peter Alan Edward, to International Business Machines Corporation. Voltage level shift circuit controlled by resistor ratios. 3,469,178, 9-23-69, Cl. 323-22.
Gardner, Raymond W., to Shelly Associates, Inc. Pulsed symbol mask shifting arrangement. 3,460,135, 8-5-69, Cl. 340-378.
Gardner, Robert B. Roof truss trailer. 3,429,465, 2-25-69, Cl. 214-83.24
Gardner, Robert B. Truss pallet. 3,429,616, 2-25-69, Cl. 298-17.
Gardner, Robert E., Jr.: *See*—
Coleman, Homer B.; and Gardner, Robert E., Jr.,3,432,396.
Gardner, Robert I. Bellows. 3,469,502, 9-30-69, Cl. 92-34.
Gardner, Robert K., Sr. Fail-safe valve system. 3,481,358, 12-2-69, Cl. 137-118.
Gardner, Srong K.: *See*—
Schnabel, Wilhelm J.; Kober, Ehrenfried H.; and Gardner, Srong K.,3,438,750.
Gardner, Thomas A. Pressure gradient web cleaning method. 3,436,265, 4-1-69, Cl. 134-37.
Gardner, Thomas A. Web positioning means and method. 3,452,447, 7-1-69, Cl. 34-156.
Gardner, Thomas A.: *See*—
Aurelio, Salvatore P.; and Gardner, Thomas A.,3,466,689.
Gardner, Verl L.: *See*—
Crew, Orville F.; Gardner, Verl L.; and Gibson, Samuel H.,3,460,229.
Gardner, Wesley M.: *See*—
Revoir, William H.; and Gardner, Wesley M.,3,436,352.
Gardner, William Austin: *See*—
Connell, John Martin; and Gardner, William Austin,3,467,587.
Gardner, William E.; and Thomas, Aubra D. Fuel control valve. 3,451,424, 6-24-69, Cl. 137-566.
Gardner, William H.: *See*—
Brooks, Robert M.; and Gardner, William H.,3,422,169.
Brooks, Robert M.; and Gardner, William H.,3,422,170.
Gardner, William James. Inflatable splint with lacing means. 3,460,531, 8-12-69, Cl. 128-87.
Gardner-Denver Company: *See*—
Baker, William J.; and Carter, Joseph F., 3,443,647.
Baker, William J., 3,464,527.
Baker, William J.; and Hurst, Richard J., 3,480,119.
Boeger, James H., 3,480,087.
Cirrincione, Gilbert; and Anderson, Robert R., 3,482,768.
Huffman, Mervin C., 3,444,692.
Niess, Peter, 3,454,111.
Stillwagon, George B., Jr., 3,439,413.
Tipton, Joe D., 3,447,652.
Vincent, Robert R.; and Huffman, Mervin C., 3,441,323.
Wallace, Arthur W., 3,464,500.
Gardon, Robert, to Ford Motor Company. Glass conveyor and heat treating process. 3,457,057, 7-22-69, Cl. 65-114.
Gareis, Alfred: *See*—
Perlick, Albert; and Gareis, Alfred,3,432,903.
Gareis, Richard W. Jaw rest dentures. 3,465,440, 9-9-69, Cl. 32-2.
Gareis, Ronald E., to General Electric Company. Vehicle locating system. 3,426,349, 2-4-69, Cl. 343-6.5
Garelick, Eli L.: *See*—
Beck, Frederic E.; and Garelick, Eli L.,3,486,127.
Garet, Pierre: *See*—
Bontempelli, Jean Claude; and Garet, Pierre,3,471,268.
Garfinkel, Harmon M.; and Lindenthal, James R., to Corning Glass Works. Method of treating glass. 3,425,816, 2-4-69, Cl. 65-30.
Garfinkel, Marvin, to General Electric Company. Solder-bonded semiconductor strain gauges. 3,451,030, 6-17-69, Cl. 338-2.
Garfinkel, Marvin; and Weininger, Joseph L., to General Electric Company. Lithiated nickel oxide crystals. 3,429,831, 2-25-69, Cl. 252-519.
Garfinkel, Marvin: *See*—
Tiemann, Jerome J.; Engeler, William E.; Garfinkel, Marvin; and Fritzsche, Hellmut,3,462,223.
Garfinkle, Marvin. Constant velocity universal joint. 3,461,688, 8-19-69, Cl. 64-21.
Garforth, John David: *See*—
Duxbury, Frederick Keith; Garforth, John David; and Mc Neeney, Peter,3,468,975.
Garg, Jag Mohan: *See*—
Shukla, Narendra M.; and Garg, Jag Mohan,3,434,581.
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Sameljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich. Mobile distribution box for controlling electric motors of machines and mechanisms in explosion hazardous premises. 3,457,462, 7-22-69, Cl. 317-99.
Gargominy, Andre Pierre, to Societe de Construction d'Appareils pour Gaz a l'Eau & Gaz Industriels. Reforming furnace for producing synthesis gas. 3,475,135, 10-28-69, Cl. 23-288.
Garhan, Herschal F.: *See*—
Garner, Edward Daniel, 3,459,435.
Patterson, David D., 3,421,774.
Garibian, Sarkis K.; and Criner, Gaspard X., Jr., to Monsanto Company. Polyurethane foam curing. 3,475,522, 10-28-69, Cl. 264-26.
Garin, Vladimir Mikhailovich: *See*—
Kostrov, Pavel Mikhailovich; Kozlov, Viktor Nikolaevich; Garin, Vladimir Mikhailovich; Ivanov, Viktor Alexeevich; and Dmitriev, Jury Ivanovich,3,485,238.
Garland, Charles, to Sun Shipbuilding & Dry Dock Company. High-pressure facility. 3,477,605, 11-11-69, Cl. 220-3.
Garland, Edward J., to ESB Incorporated. Flashlight switch. 3,459,907, 8-5-69, Cl. 200-60.
Garland, Milton W.: *See*—
Etter, Joseph A.; and Garland, Milton W.,3,485,057.
Garland, Robert B.: *See*—
Kraychy, Stephen; Garland, Robert B.; Mizuba, Seth S.; and Scott, William M.,3,481,974.
Garland, Thomas H.: *See*—
Yamada, Yoshikazu; and Garland, Thomas H.,3,476,562.
Garland, William J.; Hassencahl, Lloyd J.; Lenhart, Donald D.; and Wolfe, George, Jr., to Hughes Aircraft Company. Internally heated crystal devices. 3,431,392, 3-4-69, Cl. 219-210.
Garlet, Robert; and Grandet, Louis, to Office National Industriel de l'Azote. Process for the production of carbon oxysulphide. 3,432,266, 3-11-69, Cl. 23-203.
Garlington, William M. Basketball backboard and horizontally movable basket. 3,477,714, 11-11-69, Cl. 273-1.5
Garlitts, Donald C., to Continental Copper and Steel Industries, Inc. Grinding machine for grinding alloy discs. 3,461,620, 8-19-69, Cl. 51-129.
Garlock Inc.: *See*—
Hobson, Charles M., Jr., 3,447,780.
Merkwacz, Joseph, 3,429,592.
Garlot, Christian: *See*—
Jeantils, Claude; Grosclaude, Etienne; Garlot, Christian; and Petruzzi, Nicolino,3,459,761.
Garman Company, Incorporated: *See*—
Elbreder, Charles H., 3,442,810.
Garman, John A.: *See*—
Godfrey, Leonard E. A.; and Garman, John A.,3,427,292.
Garman, Robert A., to Sterer Engineering and Manufacturing Company. Fluid flow regulator. 3,455,320, 7-15-69, Cl. 137-101.
Garmire, Elsa M.: *See*—
Townes, Charles H.; Garmire, Elsa M.; Chiao, Raymond Y.; and Stoicheff, Boris P.,3,469,107.
Garnache, Richard R.: *See*—
Lindmayer, Joseph; Wrigley, Charles Y.; and Garnache, Richard R.,3,455,748.
Garner, Edward Daniel, to Garhan, Herschal F. Baby strollers. 3,459,435, 8-5-69, Cl. 280-41.
Garner, Edward Vernon, to Bird Machine Company. Filter meduim support grid. 3,426,909, 2-11-69, Cl. 210-474.
Garner, Elmer, to Richmond, Fredericksburg and Potomac Railroad Company. Automatic oiler for journal boxes. 3,456,758, 7-22-69, Cl. 184-2.
Garner, Harold K., to Uniroyal, Inc. High impact strength blends of vinyl chloride polymers. 3,475,361, 10-28-69, Cl. 260-23.
Garner, Harold K.; and Matthews, Demetreos N., to Uniroyal, Inc. Polymerization catalyst. 3,441,546, 4-29-69, Cl. 260-80.7
Garner, Howell D.: *See*—
Bird, John D.; Garner, Howell D.; Lounsberry, Ernest D.; and Thomas, David F.,3,420,471.
Garner, Oscar G., to General Cable Corporation. Method of making aluminum sheathed coaxial cable. 3,430,330, 3-4-69, Cl. 29-429.
Garner, Oscar G., to General Cable Corporation. Solid aluminum conductor insulated with cross- linked polyethylene. 3,441,660, 4-29-69, Cl. 174-102.
Garner, Oscar G., to General Cable Corporation. Method and apparatus for producing conductors surrounded by three or more extruded layers. 3,446,883, 5-27-69, Cl. 264-174.
Garner, Oscar G., to General Cable Corporation. Coaxial cable with welded metal sheath. 3,480,724, 11-25-69, Cl. 174-102.

Garner, Stanley R., to Balley Tow-Rite, Inc. Trailer hitch. 3,446,519, 5-27-69, Cl. 280-502.
Garner, William: *See—*
Beadle, Anthony Crisp; and Garner, William,3,433,276.
Garnett, Charles S., 50% to Simmons, William. Treatment of plastic surfaces. 3,477,799, 11-11-69, Cl. 8-4.
Garnett, Clifford. Electrochemical marking arrangement with current limiting device. 3,480,537, 11-25-69, Cl. 204-224.
Garnett, Donald W., to Olofsson Corporation, The. Multiple stage vibratory material supply structure. 3,435,995, 4-1-69, Cl. 222-199.
Garnett, Donald W., to Olofsson Corporation, The. Container supply mechanism for weighing apparatus. 3,477,530, 11-11-69, Cl. 177-55.
Garnett, Edward V., to Eaton Metal Products Company. Trailer brake control. 3,482,660, 12-9-69, Cl. 188-167.
Garney, Karl; and Winkler, Gunnar, to Arenco Aktiebolag. Method of producing transverse sealings of collapsible tube-shaped containers by means of pressure jaws and heat, and means for carrying out said method. 3,424,885, 1-28-69, Cl. 219-10.53
Garnier, Francois: *See—*
Hassid, Michel; and Garnier, Francois,3,441,847.
Garnier, Jean Pierre Gabriel Ernest, to Novacel S.A. Apparatus for changing spools on a shaft. 3,424,398, 1-28-69, Cl. 242-81.
Garnier, John J.: *See—*
Brown, William E.; and Garnier, John J.,3,460,475.
Garnier, Marcel, to Micro-Mega. Device for attaching a dental hand tool of the slip joint type. 3,432,194, 3-11-69, Cl. 287-119.
Garnjost, Kenneth D.: *See—*
Bidlack, Jerald D.; and Garnjost, Kenneth D.,3,447,422.
Gendron, George J.; Garnjost, Kenneth D.; and Mastropole, Alfred J.,3,452,830.
Thayer, William J.; and Garnjost, Kenneth D.,3,464,318.
Williams, L Jack; Thayer, William J.; and Garnjost, Kenneth D.,3,455,330.
Garrard Engineering Limited: *See—*
Fussell, Peter Raymond, 3,420,531.
Garrard, Wilfred C. J.; and Lynes, William F., Sr. Acceleration load compensating mechanism. 3,424,407, 1-28-69, Cl. 244-118.
Garrett, Carlos J., Jr., to Combustion Engineering, Inc. Steam generator and coal pulverizing apparatus. 3,467,036, 9-16-69, Cl. 110-106.
Garrett, Carlos J., Jr., to Combustion Engineering, Inc. Recirculating type steam generator and pump arrangement. 3,467,069, 9-16-69, Cl. 122-406.
Garrett, Charles G. B., to Bell Telephone Laboratories, Incorporated. Grid type magic tee. 3,436,143, 4-1-69, Cl. 350-147.
Garrett, Charles G. B.: *See—*
Colbow, Konrad; Garrett, Charles G. B.; and Thomas, Donald E.,3,435,213.
Garrett Corporation, The: *See—*
Avant, William W., 3,433,251.
Bradley, Curtis E., 3,451,214.
Burke, Clarence J.; and Grosjean, Milton O., 3,435,885.
Carson, Alan B., 3,478,706.
Davis, Maurice C.; and Wood, Palmer R., 3,439,694.
Du Pont, Anthony A.; Harris, Edward N.; and Schroeter, Thomas T., 3,486,340.
Harris, Edward N., 3,422,625.
Hendricks, Howard F., 3,422,619.
Kelley, Archibald P., 3,455,182.
Kimball, John G., 3,447,334.
Kinsell, Robert C.; and Matulich, Dan S., 3,461,790.
Kleiner, Erich J.; and Peed, Garland P., 3,457,955.
Kober, William, 3,428,840.
Kukel, Joseph; Chang, Kuo T.; and Yarber, Gordon W., 3,452,948.
Kump, Edward T., 3,447,529.
Lytle, Elvin D., 3,482,131.
Marle, David John, 3,467,451.
Marley, David J., 3,434,761.
Marley, David J., 3,434,762.
Matulich, Dan S.; and Skinner, Harold S., 3,465,962.
Nancarrow, James H.; and Holzhausen, Glen H., 3,423,926.
Pratt, Norman F., 3,483,750.
Riple, James C., 3,435,771.
Rosin, Nathaniel L., 3,448,840.
Vanderbur, John E., Jr.; Waggoner, James N.; and McBrien, Robert M., 3,424,218.
Vershure, Roy W., Jr., 3,460,806.
Wesolowski, Adolph J., 3,467,845.
Wilson, Eldon M., 3,453,878.
Wortz, Edward C.; and Aasen, Leiv B., 3,441,020.
Garrett, David E.: *See—*
Ptacek, Edward A.; and Garrett, David E.,3,424,565.
Garrett, Donald E. Pressure-foam fractionation. 3,448,044, 6-3-69, Cl. 210-44.
Garrett, Donald E.: *See—*
Hermann, John A.; and Garrett, Donald E.,3,450,490.
Garrett, Henry U. Rotating gas lift mandrel for well pipe strings. 3,454,093, 7-8-69, Cl. 166-224.
Garrett, Henry U. Crossover device for parallel pipe strings. 3,454,096, 7-8-69, Cl. 166-242.
Garrett, Hoke M.: *See—*
Charyn, Fred P.; and Garrett, Hoke M.,3,428,156.
Garrett, Howard R.; Rhino, Albert F.; and Olila, Howard E., to Haskon, Inc. Filling and sealing machine. 3,465,494, 9-9-69, Cl. 53-168.
Garrett, Jim C.; and Johnson, Robert H. Soldering iron cage holder. 3,442,477, 5-6-69, Cl. 248-210.
Garrett, John M.: *See—*
Miles, Clifford V.; and Garrett, John M.,3,476,989.
Garrett Laboratories, Inc.: *See—*
Gordon, Marvin, 3,456,052.
Garrett, Lane S.; Bergey, John M. K.; Greenberg, Stuart G.; and Alessandro, Frank J., to United States of America, Navy. Universal encoder tester. 3,469,084, 9-23-69, Cl. 235-153.
Garrett, Leo Lawrence, deceased; and Florida National Bank, administrator, C.T.A. Trickling bar assembly for blow-out towers. 3,430,935, 3-4-69, Cl. 261-109.
Garrett, Luther W., Jr.: *See—*
Pfeiffer, Robert W.; and Garrett, Luther W., Jr.,3,421,884.
Garrett, Michael E., to British Oxygen Company Limited, The. Flow-regulating device. 3,429,342, 2-25-69, Cl. 138-43.
Garrett, Michael E.: *See—*
Webster, Thomas J.; and Garrett, Michael E.,3,431,746.
Garrett, Walter A. Heating and cooling system. 3,424,232, 1-28-69, Cl. 165-45.
Garrett, Walter L.: *See—*
Brown, James A.; Garrett, Walter L.; and Wielicki, Henry,3,467,603.
Garrett, Wayne C.: *See—*
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,425,199.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,425,200.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,440,808.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,485,022.
Freelander, Abraham L.; Matthews, Robert E.; and Garrett Wayne C.,3,444,675.
Freldlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,449,894.
Garrett, Wayne O.: *See—*
Brunner, Robert F.; and Garrett, Wayne O.,3,433,450.
Garrett, William R.: *See—*
Miller, Charles E.; and Garrett, William R.,3,463,252.
Garrett, William R., to Smith Industries International, Inc. Resilient unit for drill strings. 3,447,340, 6-3-69, Cl. 64-1.
Garrett, William R., to Smith Industries International, Inc. Latch for drill bit control apparatus. 3,460,639, 8-12-69, Cl. 175-230.
Garrett, William R.; and Moore, Stanley C., to Smith International, Inc. Dual drill pipe. 3,471,177, 10-7-69, Cl. 285-133.
Garrett, William. Process for applying designs to the surface of the hair. 3,433,232, 3-18-69, Cl. 132-7.
Garrette, Charles H., Jr.; and Ryan, Harry Michael, to Armed Forces Equipment Development Corporation. Telescoping tube assembly. 3,474,833, 10-28-69, Cl. 138-120.
Garrido, John A.: *See—*
Waznys, Peter J.; and Garrido, John A.,3,457,378.
Garriques, Alfred L.: *See—*
Siemonsen, Frederick A.; and Garriques, Alfred L.,3,462,036.
Garris, Raymond W. Phosphoric acid production. 3,463,609, 8-26-69, Cl. 23-165.
Garrison, Dale Leroy; and Lulay, Arthur, to Du Pont de Nemours, E. I., and Company. Apparatus and process for stretch breaking filamentary tow. 3,469,285, 9-30-69, Cl. 19-0.37
Garrison, Earl R. Cab-over telescopic camper with sliding panel. 3,463,541, 8-26-69, Cl. 296-23.
Garrison, Erskine P.; and Tschirky, John E., to Smith Industries International, Inc. Flow restricting and metering radial bearing for drilling tools. 3,456,746, 7-22-69, Cl. 175-320.
Garrison, John B., to United States of America, Navy. Search antenna system. 3,453,637, 7-1-69, Cl. 343-854.
Garrison, John B., Automatic Sprinkler Corporation of America, mesne. Inhalation-exhalation regulator system with suction control. 3,481,333, 12-2-69, Cl. 128-142.2
Garrison, John. Edge-wire support unit. 3,425,680, 2-4-69, Cl. 267-102.
Garrison, Judd F., to Pneumo Dynamics Corporation. Aircraft weight and balance system sensor. 3,473,369, 10-21-69, Cl. 73-65.
Garrison, Langdon I., to Swenson, John, Granite Co., Inc., The. Panel for composite wall structure. 3,476,912, 11-4-69, Cl. 219-213.
Garrison, Lilburn H.; and Winter, William E., to Westinghouse Electric Corporation. Apparatus for epitaxially producing a layer on a substrate. 3,459,152, 8-5-69, Cl. 118-5.
Garrison, William E., to Du Pont de Nemours, E. I., and Company. Glass laminate. 3,434,915, 3-25-69, Cl. 161-199.

Garrison, William E., to Du Pont de Nemours, E. I., and Company. Process for the preparation of shaped articles from lactam polymers. 3,454,689, 7-8-69, Cl. 264-53.
Garritsen, Johan W.; and Bigot, Johan A., to Stamicarbon N.V. Lactams from cyclo-aliphatic ketoximes by the Bechmann rearrangement employing HCl as catalyst. 3,437,655, 4-8-69, Cl. 260-239.3
Garritsen, Johan W.; and Bigot, Johan A., to Stamicarbon, N.V.Preparation of τ-aminododecadienic lactam. 3,481,919, 12-2-69, Cl. 260-239.3
Garrity, John K., 'G' Grip Corporation, The. Golf club grip. 3,441,276, 4-29-69, Cl. 273-81.4
Garry, Gerald A.; Kostuch, Donald J.; Lawless, Frederick W.; and Malaby, Davey L., to International Business Machines Corporation. Document line position identification for line marking and document indexing apparatus. 3,458,688, 7-29-69, Cl. 235-61.7
Garshelis, Ivan J., to Research Associates Inc. Magnetic proximity detector. 3,458,774, 7-29-69, Cl. 317-148.5
Garside, Peter: *See*—
Ritchie, Alexander Crawford; Cheesman, Dennis George; Garside, Peter; and Waring, Juliet Mary,3,466,295.
Garson, Carl Homer. Typodont. 3,422,536, 1-21-69, Cl. 32-71.
Garst, Jonathan. Two-stage method of converting anhydrous to aqua ammonia. 3,468,134, 9-23-69, Cl. 62-48.
Garstang, William W.; and Nordquist, Lawrence E., to Cornell-Dubilier Electric Corporation. Discoidal feed-through capacitors. 3,443,251, 5-6-69, Cl. 333-79.
Gartley, William H.: *See*—
McBride, Harold Oren; and Gartley, William H.,3,478,374.
Gartner, Jurgen, to Henkel & Cie G.m.b.H. Preparation of 3,3-bis-(chloromethyl)-oxetane. 3,462,454, 8-19-69, Cl. 260-333.
Gartner, Stanley Jacob; and Roeber, Henry William, to Sylvania Electric Products, Inc. Method of making a cathode sleeve structure. 3,452,425, 7-1-69, Cl. 29-477.
Gartner, Stanley J., to Sylvania Electric Products, Inc. Material transfer device with parallel link frame. 3,463,329, 8-26-69, Cl. 214-1.
Gartner, Stanley J.; Regec, John J.; and Smith, James M., to Sylvania Electric Products, Inc. Chain and indexing driving mechanism. 3,465,867, 9-9-69, Cl. 198-19.
Gartner, Werner, to U.S. Philips Corporation, mesne. High frequency heating system with inductive plasma. 3,440,387, 4-22-69, Cl. 219-10.75
Garty, Kenneth T.; and Gibb, Thomas B., Jr., to Union Carbide Corporation. Polymerizing of oxirane monoepoxides in the presence of a reaction product of an organometallic compound and a polyoxyalkylene glycol. 3,427,259, 2-11-69, Cl. 260-2.
Gartzke, Donald G.; and Scudo, Aldo, to Amphenol Corporation. Coaxial connector. 3,474,391, 10-21-69, Cl. 339-103.
Garve, Alexander, to Maschinenfabrik Augsburg-Nurnberg AG. Arrangements for radial flow compressors for supercharging internal combustion engines. 3,462,071, 8-19-69, Cl. 230-114.
Garver, Edward B.; and Lurie, Randolph D., to Continental Can Company, Inc. Die center pad. 3,452,396, 7-1-69, Cl. 18-19.
Garver, Oscar W.; Ullman, Frederick E.; Stettler, Christian H.; and Kopp, Hans W., to Grotnes Machine Works, Inc. Welding machine and procedure for welding attach- ments to base members and having provision for inhibiting welding when the base members are misoriented. 3,427,426, 2-11-69, Cl. 219-80.
Garver, Robert V., to United States of America, Army. Varactor continuous phase modulator having a resistance in parallel with the varactor. 3,479,615, 11-18-69, Cl. 332-30.
Garver, William Joseph: *See*—
Dell, Harry John; Folkenroth, Earl Earnest; and Garver, William Joseph,3,424,416.
Garver, William Joseph; and O'Hanlan, Michael Anthony, Jr., to AMP Incorporated. Socket for spaced contacts of tubular members. 3,462,725, 8-19-69, Cl. 339-51.
Garvey, Edward Christopher: *See*—
Chalfin, William L.; and Garvey, Edward Christopher,3,444,562.
Garvey, Gary M., to Cardinal Scale Manufacturing Co. Cutoff signal mechanism for scales. 3,458,003, 7-29-69, Cl. 177-116.
Garvey, John H., to Custom Packaging, Inc. Spile. 3,469,344, 9-30-69, Cl. 47-53.
Garwacki, Walter, to General Electric Company. Wide band gap semiconductor devices having improved temperature independent non-rectifying contacts. 3,479,573, 11-18-69, Cl. 317-237.
Garwin, Edward L., to United States of America, Atomic Energy Commission. Coaxial light source with series impedance within the envelope. 3,479,555, 11-18-69, Cl. 315-39.
Garwin, Richard L., to International Business Machines Corporation. Laser device for producing multiple frequency outputs. 3,432,768, 3-11-69, Cl. 331-94.5
Garwood, William E., to Mobil Oil Corporation. Shape selective hydrocarbon conversion over activated offretite. 3,474,025, 10-21-69, Cl. 208-111.
Gary, Leo A., to Spra-Con Company, The. Synchronized memory system for a selective discharge conveyor. 3,482,260, 12-2-69, Cl. 214-11.
Garzia, Aldo, to Instituto Chemioterapico Italiano S.p.A. 3,4,5-Trimethoxybenzoylguanidines. 3,432,550, 3-11-69, Cl. 260-559.
Garzia, Aldo, to Instituto Chemioterapico Italiano S.p.A. 3,4,5-Trimethoxgbenzoylguanidines. 3,432,551, 3-11-69, Cl. 260-559.
Gas Council, The: *See*—
Dent, Frederick James, 3,441,395.
Dent, Frederick James; Thompson, Brian Hoyle; and Conway, Henry Lawrence, 3,484,219.
Percival, George, 3,420,642.
Percival, George; and Yarwood, Thomas Alan, 3,433,609.
Percival, George, 3,459,520.
Percival, George; and Phillips, Thomas Rowland, 3,469,957.
Gas Developments Corporation: *See*—
Granryd, Eric G.U., 3,474,641.
Gas Processors, Inc.: *See*—
Price, Harold A.; and Price, Donald A., 3,472,498.
Gasbarra, Anthony J., to Bennett Industries, Inc. Sealing arrangement for plastic container. 3,458,079, 7-29-69, Cl. 220-24.
Gasc, Jean-Claude: *See*—
Bertin, Daniel; Pierdet, Andre; Nedelec, Lucien; and Gasc, Jean-Claude,3,472,884.
Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude,3,472,885.
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.
Gascon, Joseph: *See*—
Fehr, Bernard Henri Paul; and Gascon, Joseph,3,445,199.
Gasflux Company, The: *See*—
Medsker, Goerge A., 3,469,304.
Gasiel, Joseph F.; and Downs, James C., to Seeburg Corporation, The. Shelf-resetting mechanism for drop-shelf package vendors. 3,446,396, 5-27-69, Cl. 221-90.
Gasik, Ronald F., to Ansul Company, The. Inertia switches. 3,453,405, 7-1-69, Cl. 200-61.45
Gasior, Stanley J.: *See*—
Forney, Albert J.; Gasior, Stanley J.; and Field, Joseph H.,3,463,623.
Gasiorek, Leonard S.; and Zeisler, Frederic L., to Ford Motor Company. Control system for an electric motor. 3,487,282, 12-30-69, Cl. 318-443.
Gaska, Remigius A.; and Canute, Robert A., to Dow Chemical Company, The. Method for separating iron from magnesium hydroxide. 3,482,938, 12-9-69, Cl. 23-201.
Gaska, Remigius A.; and Goodenough, Robert D., to Dow Chemical Company, The. Separating alkali metal halates from halides by addition of a water-soluble alcohol. 3,424,562, 1-28-69, Cl. 23-296.
Gaska, Remigius A.; and Goodenough, Robert D., to Dow Chemical Company, The. Separating alkali metal halates from halides by addition of ammonia. 3,429,668, 2-25-69, Cl. 23-296.
Gaske, Joseph E.: *See*—
Sekmakas, Kazys; and Gaske, Joseph E.,3,450,791.
Gaskell & Chambers Limited: *See*—
Loveland, Robert; and Downie, George, 3,464,595.
Gaskell, Edward Stanley. Dough-moulding machines. 3,459,140, 8-5-69, Cl. 107-9.
Gaskill, James R., Jr.: *See*—
Vitt, George G., Jr.; and Gaskill, James R., Jr.,3,454,772.
Gaskill, James Robbins, Jr.; and Vitt, George G., Jr., to Hughes Aircraft Company. Focus monitor arrangement. 3,436,589, 4-1-69, Cl. 315-10.
Gaskins, Jack C., to Batson-Cook Company. Variable speed transmission. 3,481,221, 12-2-69, Cl. 74-689.
Gaskins, Thomas. Propelling and steering device. 3,448,710, 6-10-69, Cl. 114-16.
Gasner, William L.; to McCulloch Corporation. Stabilized cutting tip for chain saw cutter link. 3,477,480, 11-11-69, Cl. 143-135.
Gaspar, Bela. Sensitizing methine dyes and intermediates, process for preparing same and photographic element con- taining these dyes. 3,427,310, 2-11-69, Cl. 260-240.1
Gaspar, Istvan; and Schnitta, Antal, to Licencia Talalmanyokat Ertekesito Vallalat. Process for polymerizing lactams. 3,451,975, 6-24-69, Cl. 260-78.
Gaspar, Louis G.: *See*—
Formsma, Gerald R.; and Gaspar, Louis G.,3,464,870.
Gaspar, Noel John: *See*—
Tiedje, John Louis; Pasternak, Israel Szabsaj; and Gaspar, Noel John,3,449,458.
Gasparac, Rudolph J.; and Peters, Helmut, to Nordberg Manufacturing Company. Bearing support for a crusher and the like. 3,443,846, 5-13-69, Cl. 308-172.
Gasparac, Rudolph J.; and Szaj, Arnold P., to Nordberg Manufacturing Company. Bowl securing and bowl removing means. 3,437,277, 4-8-69, Cl. 241-207.
Gasparaitis, Bernardas: *See*—
Dokos, Sophocles J.; Wickenberg, Chester H.; Swanson, Charles E.; and Gasparaitis, Bernardas,3,472,154.
Gaspari, Anthony M. Stencilling die. 3,469,488, 9-30-69, Cl. 83-652.
Gaspari, Raffaele, to Societa Italiana Resine S.p.A. Mixing thermoplastic materials. 3,458,174, 7-29-69, Cl. 259-4.
Gasper, Herbert: *See*—
Blomecke, Werner; Freystein, Wolfgang; and Gasper, Herbert,3,450,061.

Gassaway, James Scott, to Hersey-Sparling Meter Company. Monitoring and recording system. 3,448,457, 6-3-69, Cl. 346-1.
Gassaway, Lee V.; and Erdkamp, Michael L. Control circuit. 3,478,222, 11-11-69, Cl. 307-38.
Gassaway, Wilson C. Bearing heater. 3,427,434, 2-11-69, Cl. 219-385.
Gasser, Adolf; and Ronge, Georg, to Entwicklungs- und Forschungs-Anstalt. Method of purifying waste water. 3,446,732, 5-27-69, Cl. 210-44.
Gasser, Clive Gordon; and Hamlin, James William, to BP Chemicals (U.K.) Limited. Organic acid separation by azeotropic distillation with toluene and subsequent chemical washing of toluene. 3,437,566, 4-8-69, Cl. 203-33.
Gasser, Edward Bruce; and Healy, Denis J., to Colgate-Palmolive Company. Aerosol dispenser with lateral discharge and heating holder therefor. 3,446,402, 5-27-69, Cl. 222-146.
Gasser, Hermann; and Wuest, Stephan, to Luwa AG. Monitoring device for textile machines for determining interruptions at moving fiber strands or the like. 3,438,189, 4-15-69, Cl. 57-81.
Gasser, Kurt, to Borg-Warner Corporation. Motor control system with frequency sensors for determining when predetermined motor speed is attained. 3,439,242, 4-15-69, Cl. 318-66.
Gasser, Lorenz: *See*—
Baade, Otto; and Gasser, Lorenz,3,482,051.
Gasser, Lorenz, to International Standard Electric Corporation. Key dialling system capable of transmitting special signals over a loop in the call condition. 3,454,726, 7-8-69, Cl. 179-90.
Gasser, Robert A.; and Cooper, Pascal W., to Merck & Co., Inc. Process for the preparation of gibberellin esters. 3,436,405, 4-1-69, Cl. 260-343.3
Gasset, Michelle Marcelle: *See*—
Alder, Robert Oscar; Baudet, Roger Jean Francois; Baudier, Claude Paul; and Gasset, Michelle Marcelle,3,430,405.
Gassino, Teresio, to Olivetti, Ing., C., & C., S.p.A. Ten key calculating machine adapted to effect multiplications as well as divisions. 3,423,018, 1-21-69, Cl. 235-63.
Gassino, Teresio, to Olivetti, Ing., C., & C., S.p.A. Automatic short-cut multiplication device for a calculating machine. 3,451,616, 6-24-69, Cl. 235-60.
Gassino, Teresio; and Giolitti, Nicolo, to Olivetti, Ing C., & C., S.p.A. Device for transversely displacing a typecarrier carriage including a folding rack. 3,448,844, 6-10-69, Cl. 197-82.
Gassler, Gerhard; and Pohler, Friedmar, to Farbenfabriken Bayer Aktiengesellschaft. Electric quotient network which divides a variable AC input voltage by a variable DC input voltage. 3,454,754, 7-8-69, Cl. 235-196.
Gassman, Max Paul, to Deere & Company. Dual-range tractor-implement draft control system. 3,485,303, 12-23-69, Cl. 172-7.
Gassmann, Gerhard-Gunter, to International Standard Electric Corporation. Synchronous demodulator system. 3,454,710, 7-8-69, Cl. 178-5.8
Gassner, Harold. Rail fasteners. 3,476,317, 11-4-69, Cl. 238-290.
Gassner, Saul Alexander; Hellinger, Esther; Katchalsky, Aharon; and Vofsi, David, to Yeda Research and Development Co., Ltd. Polyethylene-natural wax emulsions for the coating of fruits and vegetables. 3,420,790, 1-7-69, Cl. 260-18.
Gasson, Edward James: *See*—
Bethell, James Robert; Gasson, Edward James; Hadley, David James; and Neale, Roderick Frank,3,435,069.
Gasson, Roy Alfred George: *See*—
Flower, Maurice Shirley; and Gasson, Roy Alfred George,3,422,207.
Gast, Erich; and Wege, Hans, to Kuhn, Wilhelm, OHG. Coffee-filter. 3,483,812, 12-16-69, Cl. 99-295.
Gast, Lyle E.; and Schneider, Wilma J., to United States of America, Agriculture. Diisocyanate modified vegetable oil hydroxyl- terminated polyesteramide coatings. 3,485,779, 12-23-69, Cl. 260-18.
Gastev, Jury Alexandrovich: *See*—
Perelman, Simon Meerovich; Prager, Isaak Aronovich; Tolmachev, Anatoly Filippovich; Klebanov, David Lvovich; and Gastev, Jury Alexandrovich,3,444,376.
Gastineau, Lloyd, to General Dynamics Corporation. Radiant energy detection system using reciprocating means surrounding the detector. 3,422,416, 1-14-69, Cl. 340-258.
Gaston, James B.: *See*—
Wiley, Carl A.; Canaday, James A.; Loeschen, Herbert C.; and Gaston, James B.,3,450,869.
Gaston, Paul, to Musi Corporation. Spring clip for ornaments. 3,460,211, 8-12-69, Cl. 24-252.
Gates & Sons, Inc.: *See*—
Gates, Harris Gordon, 3,437,306.
Gates, Albert George Ronald, to Gestetner Limited. Apparatus for applying a liquid to rotary surfaces of printing machines. 3,425,345, 2-4-69, Cl. 101-148.
Gates, Albert George Ronald, to Gestetner Limited. Clutches. 3,446,501, 5-27-69, Cl. 271-62.
Gates and Sons, Inc.: *See*—
Gates, Harris Gordon, 3,465,999.
Gates, Earl. Supporting and rotating device for hair curler rolls. 3,454,016, 7-8-69, Cl. 132-34.
Gates, Harris Gordon, to Gates & Sons, Inc. Concrete form tie assembly and plug therefor. 3,437,306, 4-8-69, Cl. 249-43.
Gates, Harris Gordon, to Gates and Sons, Inc. Cone subassembly for concrete form ties. 3,465,999, 9-9-69, Cl. 249-43.
Gates, John M. P., to Tektronix, Inc. Amplifier having push-pull output with current sharing operation. 3,470,484, 9-30-69, Cl. 330-14.
Gates, John T.: *See*—
Caldemeyer, Daniel F.; Caldemeyer, Lloyd O.; Gates, John T.; and Bellmer, Friedrich O.,3,434,755.
Gates, John W., Jr.: *See*—
McBride, Clarence E.; O'Brien, David F.; and Gates, John W., Jr.,3,459,549.
Gates, John William Charles, to National Research Development Corporation. Q-switched laser light sources. 3,487,331, 12-30-69, Cl. 331-94.5
Gates, Lauren W.: *See*—
Hill, Fredrick L.; Gates, Lauren W.; and Friedel, William C., Jr.,3,429,440.
Gates, Lauren W., to University of California, The Regents of the. Harvester adaptable to various row spacings. 3,437,220, 4-8-69, Cl. 214-42.
Gates, Lauren W.; Holtz, Nickolas A.; and Hill, Fredrick L., to University of California, The Regents of the. Rear cross-conveyor assembly for harvester. 3,422,953, 1-21-69, Cl. 209-74.
Gates, Lauren W.; and Schmidt, Lewis W., to University of California, The Regents of the. Tomato harvester pickup. 3,436,902, 4-8-69, Cl. 56-327.
Gates, Marvin A.: *See*—
Bailey, John M.; and Gates, Marvin A.,3,426,739.
Gates, Paul: *See*—
Evans, Wayne; Marcucci, Rudolph; and Gates, Paul,3,466,488.
Gates, Percival T., Jr., to EG & G, Inc. Light beam sampling apparatus. 3,463,575, 8-26-69, Cl. 350-172.
Gates Radio Company: *See*—
Kabrick, Wallace J., 3,484,709.
Schultz, Porter F., Jr., 3,436,708.
Schultz, Porter F., Jr., 3,437,931.
Stratman, Hardin G., 3,475,694.
Swanson, Hilmer I., 3,440,566.
Gates, Robert L., to Singer-General Precision, Inc. Rotary position mechanism. 3,485,115, 12-23-69, Cl. 74-815.
Gates, Ronald G.: *See*—
Noddings, Charles R.; Cleary, Robert D.; and Gates, Ronald G.,3,459,815.
Gates Rubber Company: *See*—
Hori, Tatsu, 3,445,981.
Gates Rubber Company, The: *See*—
Jewell, David E.; and Givens, William R., 3,480,269.
Roden, Richard L.; Smith, Dudley C.; and Kessler, Lowell, 3,484,807.
Gates, Walter G., to Ford Motor Company. Self-cleaning oil filter. 3,432,005, 3-11-69, Cl. 184-6.
Gateway Erectors, Inc.: *See*—
Reiland, Frank F., 3,473,285.
Gatiss, John William; and Joyce, William John, to English Electric Company, Limited, The, and British Insulated Callender's Cables Limited. Control circuit switching devices protecting capacitors series-connected in high voltage lines. 3,443,156, 5-6-69, Cl. 317-12.
Gatley, John Andrew: *See*—
Webb, John; Gatley, John Andrew; and McFall, Albert,3,453,867.
Gatsis, John G., to Universal Oil Products Company. Multiple-stage hydrorefining of petroleum crude oil. 3,453,206, 7-1-69, Cl. 208-210.
Gatsis, John G., to Universal Oil Products Company. Hydrorefining black oils with a combination of halogen hydrides. 3,457,164, 7-22-69, Cl. 208-209.
Gatsis, John G.; and Gleim, William K. T., to Universal Oil Products Company. Hydrogenation of condensed nuclear hydrocarbonaceous compounds. 3,449,452, 6-10-69, Cl. 260-667.
Gatsis, John G.; and Gleim, William K. T., to Universal Oil Products Company. Hydrogenation of condensed ring heterocyclic compounds. 3,449,454, 6-10-69, Cl. 260-668.
Gatsis, John G.: *See*—
Gleim, William K. T.; and Gatsis, John G.,3,483,118.
Gatsonides, Maurits. Sensing device. 3,436,504, 4-1-69, Cl. 200-86.
Gattenby, Miles N., Jr.; and D'Amato, Anthony S., to Borden Company, The. Antifogging film comprising vinyl chloride polymer and fatty acid esters. 3,479,308, 11-18-69, Cl. 260-23.
Gatti, Arno, to General Electric Company. Process for producing α-alumina whiskers. 3,476,613, 11-4-69, Cl. 148-1.6
Gatti, Arno, to General Electric Company. Process for producing alpha -alumina whiskers. 3,486,849, 12-30-69, Cl. 23-142.
Gatti, Arno; and Laskow, William, to General Electric Company. Process for producing magnesia-alumina spinel whiskers. 3,457,033, 7-22-69, Cl. 23-52.
Gatti, Giancarlo. Automatic dispensing machine for magazines, newspapers, books and the like. 3,463,356, 8-26-69, Cl. 221-213.

Gattner, Gunther E.; and Jurk, Rolf F., to Siemens Aktiengesellschaft. Method of and apparatus for automatically identifying symbols appearing in written matter. 3,430,198, 2-25-69, Cl. 340-146.3
Gatto, Charles. Cutting means for continuously fed materials. 3,442,168, 5-6-69, Cl. 83-354.
Gatz, Raymond J., to Lamson & Sessions Co., The. Threaded fastener having tool receiving recess. 3,481,243, 12-2-69, Cl. 85-45.
Gatza, Casper J. Gas saturator and detector. 3,429,676, 2-25-69, Cl. 48-195.
Gatzi, Karl: *See—*
Paltauf, Friedrich; Menasse, Raphael; and Gatzi, Karl,3,483,245.
Gatzke, Harold E.; Ariens, Mando S.; and Doty, Vernon G., to Agri-Tek, Inc. Seed planter for depositing fine seeds at controlled depth. 3,450,074, 6-17-69, Cl. 111-52.
Gau, Leonard P.; and Platzer, George E.Jr., to Chrysler Corporation. Voltage regulator. 3,439,250, 4-15-69, Cl. 320-64.
Gaubis, Leonard L.; and McDonough, Thomas F., to United Aircraft Corporation. Combined propeller pitch lock and low pitch stop system. 3,439,745, 4-22-69, Cl. 170-160.21
Gaubis, Leonard L.: *See—*
Quenneville, Raymond N.; and Gaubis, Leonard L.,3,463,237.
Gaudelli: *See—*
Gaudelli, Edmond M.; and Shepler, Edward E., 3,426,122.
Gaudelli, Edmond M.; and Shepler, Edward E., to Gaudelli, Edmond M., mesne. Process for producing stone block structures. 3,426,122, 2-4-69, Cl. 264-297.
Gaudin, Jean, to Societe de Constructions Mecaniques de Creil. Braking device for use in the winding of a number of strips upon a common mandrel. 3,468,494, 9-23-69, Cl. 242-75.2
Gaudlitz, Paul. Tying apparatus for sausage casings. 3,473,292, 10-21-69, Cl. 53-135.
Gaudry, Edouard, to Electrolux Corporation. Noise reduction of gear train. 3,469,470, 9-30-69, Cl. 74-443.
Gaudry, Edouard: *See—*
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James,3,469,272.
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, to Electrolux Corporation. Floor and rug treating apparatus. 3,469,272, 9-30-69, Cl. 15-50.
Gauer Metal Products, Inc.: *See—*
Gauer, Walter; and Hathaway, Richard E., 3,474,653.
Gauer, Walter; and Hathaway, Richard E., to Gauer Metal Products, Inc. Metal strip edging apparatus. 3,474,653, 10-28-69, Cl. 72-199.
Gauger, Roy C., to Bendix Corporation, The, mesne. Vacuum pump. 3,478,954, 11-18-69, Cl. 230-101.
Gaughan, Philip J.; Dorwart, George E., III; and Lord, John B., to Betz Laboratories, Inc. Apparatus for the control of foam formation during the processing of liquids. 3,425,952, 2-4-69, Cl. 252-361.
Gaughan, Philip J.; Dorwart, George E.; and Lord, John B., to Betz Laboratories, Inc. Apparatus for the control of foam formation during the processing of liquids. 3,427,252, 2-11-69, Cl. 252-361.
Gaugler, Richard S.; and Siegla, Donald C., to General Motors Corporation. Domestic clothes washer with fluid flow agitation. 3,444,710, 5-20-69, Cl. 68-184.
Gauje, Georges Maurice Celestin Alois, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Process for depositing a protective aluminum coating on metal articles. 3,486,927, 12-30-69, Cl. 117-107.2
Gaukler, Fritz: *See—*
Kuhnle, Paul; and Gaukler, Fritz,3,470,995.
Gaul, Edward M.; and Steingas, Richard R., to International Harvester Company. Cotton picker construction. 3,466,857, 9-16-69, Cl. 56-30.
Gaul, Edward M.: *See—*
Steingas, Richard R.; and Gaul, Edward M.,3,486,316.
Gauld, Godfrey R., to Avco Corporation. Relay comprising complementary symmetry-connected transistors with isolated inductance-rectifier input networks. 3,479,531, 11-18-69, Cl. 307-255.
Gaulke, Gary L., to Hyster Company. Steering axle. 3,480,100, 11-25-69, Cl. 180-79.2
Gault, John M., to International Rectifier Corporation. Method of manufacture of high voltage solar cell. 3,422,527, 1-21-69, Cl. 29-572.
Gault, John M., to International Rectifier Corporation. Unijunction transistor with improved efficiency and heat transfer characteristics. 3,423,652, 1-21-69, Cl. 317-235.
Gault, John M., to International Rectifier Corporation. Silicon cell construction and method of manufacture therefor. 3,483,039, 12-9-69, Cl. 136-89.
Gaumer, Marvin W., to Perkin-Elmer Corporation, The. Automatically controlled multiple sampling measurement system. 3,469,438, 9-30-69, Cl. 73-53.
Gaunt, Eric F.: *See—*
Jones, David Aubrey; Davis, Alfred C.; and Gaunt, Eric F.,3,422,819.
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W., to Massey-Ferguson (Australia) Limited. Harvester suspension system. 3,434,270, 3-25-69, Cl. 56-15.
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W., to Massey-Ferguson (Australia) Limited. Power unit and frame. 3,434,271, 3-25-69, Cl. 56-16.
Gaunt, John A.; and Petree, Harris E., to Geigy Chemical Corporation. Preparation of metal chelates of ethylenediamine derivatives containing aromatic rings. 3,424,776, 1-28-69, Cl. 260-439.
Gaunt, William E. Pharmaceutical compositions and their preparation. 3,449,489, 6-10-69, Cl. 424-31.
Gaunt, Wilmer B., Jr., to Bell Telephone Laboratories, Incorporated. Telephone conference circuit. 3,423,538, 1-21-69, Cl. 179-18.
Gaunt, Wilmer B., Jr., to Bell Telephone Laboratories, Incorporated. Hybrid circuit. 3,480,742, 11-25-69, Cl. 179-170.
Gaunt, Wilmer B., Jr., to Bell Telephone Laboratories, Incorporated. Frequency modulated phase-locked oscillator. 3,480,883, 11-25-69, Cl. 332-19.
Gaunt, Wilmer B., Jr.: *See—*
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K.,3,426,158.
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P., to Case Foundation Company. Apparatus and method for removing cuttings. 3,430,448, 3-4-69, Cl. 61-40.
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P., to Case Foundation Company. Apparatus and method of producing shafts and caissons. 3,436,921, 4-8-69, Cl. 61-40.
Gaupin, Arthur Jules, to Ateliers Belges Reunis Societe Anonyme. Controlling device of the rotation of a slow- rotating drum like element. 3,466,936, 9-16-69, Cl. 74-88.
Gaura, Robert E., to Lockheed Aircraft Corporation. Bi-directional fluidic flow control valve. 3,486,517, 12-30-69, Cl. 137-81.5
Gaus, Jakob: *See—*
Lischer, Georg; and Gaus, Jakob,3,434,171.
Gause, Benjamin: *See—*
Harmon, Allen; and Gause, Benjamin,3,430,721.
Gause, Joseph A. Water-borne vessel comprising propulsion system incorporating flexible fin propulsion members. 3,453,981, 7-8-69, Cl. 115-4.
Gausepohl, Frank W., to May, Argil J., Manufacturing & Distribution Corp. Expansion joint cover. 3,447,430, 6-3-69, Cl. 94-18.
Gausman, Alfred P., to Hayssen Manufacturing Company. Packaging machine. 3,449,888, 6-17-69, Cl. 53-182.
Gauss Electrophysics, Inc.: *See—*
Gregg, David Paul, 3,430,966.
Johnson, Keith O.; and Broadbent, Kent D., 3,466,483.
Johnson, Keith O.; and Gregg, David Paul, 3,480,736.
Gauss, Hugo E.; Real, Raymond V.; and Rosa, Vincent J., to United Aircraft Corporation. Shock mitigation system. 3,427,038, 2-11-69, Cl. 280-6.
Gaut, George R. Automotive safety device. 3,452,834, 7-1-69, Cl. 180-82.
Gautherin, George A.: *See—*
Greenberg, Sol; and Gautherin, George A.,3,423,665.
Gautherin, Guy; and Septier, Albert, to Commissariat a l'Energie Atomique. Mass spectrometer comprising means for producing a high-frequency transverse electric field. 3,441,732, 4-29-69, Cl. 250-41.9
Gauthier, Adrien; and Garcin, Maurice M.P., to Societe Les Piles Wonder. Electrochemical generator. 3,480,481, 11-25-69, Cl. 136-111.
Gauthier, Charles: *See—*
Couturier, Georges; and Gauthier, Charles,3,423,807.
Gauthier, Rene G.: *See—*
Renaud, Lionel U.; and Gauthier, Rene G.,3,459,012.
Gautier, Robert A. System and method for freeing aircraft fuels of moisture, microorganisms and other contaminants. 3,467,349, 9-16-69, Cl. 244-135.
Gautney & Jones Communications, Inc.: *See—*
Gautney, George E., 3,440,542.
Gautney, George E., to Gautney & Jones Communications, Inc. Omnidirectional loop antenna. 3,440,542, 4-22-69, Cl. 325-373.
Gautsch, Othmar: *See—*
Mustacchi, Carlo; Gautsch, Othmar; and Wahl, Hartmut,3,427,702.
Gauzner, Moisei Yakovlevich: *See—*
Bromberg, Boris Moisfevich; Gauzner, Moisei Yakovlevich; Ljutsin, Ilya Samuilovich; and Nadel, Moisei Simonovich,3,435,714.
Gavin, David F.; Kober, Ehrenfried H.; and Schnabel, Wilhelm J., to Olin Mathieson Chemical Corporation. Preparation of polyhalogenated phenylene polyisocyanates. 3,450,740, 6-17-69, Cl. 260-453.
Gavin, David F.; and Ottmann, Gerhard F., to Olin Mathieson Chemical Corporation. Process for cycloalkenes and various substituted cycloalkenes. 3,441,622, 4-29-69, Cl. 260-666.
Gavin, David F.: *See—*
Ottmann, Gerhard F.; and Gavin, David F.,3,470,169.

Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F.,3,481,967.
Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F.,3,481,968.
Gavinski, Frank R.: *See*—
Ostling, Edward J.; Gavinski, Frank R.; and Welch, Philip C.,3,451,362.
Gavrila, Juan. Transforming mechanism to convert continuous rotary motion into reciprocal motion, in a rotary direction. 3,436,971, 4-8-69, Cl. 74-44.
Gavrilov, Nikolai Ivanovich: *See*—
Balitsky, Andrei Vasilievich; Penkin, Nikolai Ilich; Filatovsky, Lev Alexeevich; Gavrilov, Nikolai Ivanovich; and Rybchinsky, Rostislav Evgenievich,3,468,561.
Gaw, John William: *See*—
Hudson, William Jeffrey, Jr.; and Gaw, John William,3,434,097.
Gawin, Adolph J.: *See*—
Gross, Maynard C.; Gawin, Adolph J.; and Smitzer, Louis A.,3,446,552.
Smitzer, Louis A.; Gawin, Adolph J.; Rempala, Chester S.; and Zis, Jerome C.,3,438,323.
Gawlick, Heinz: *See*—
Ballreich, Kurt; Bendler, Hellmut; and Gawlick, Heinz,3,455,244.
Stadler, Hans; and Gawlick, Heinz,3,442,205.
Stadler, Hans; Gawlick, Heinz; and Marondel, Gunther,3,446,146.
Stadler, Hans; Gawlick, Heinz; and Umbach, Hans,3,427,972.
Gawlick, Heinz; and Bendler, Hellmut, to Dynamit Nobel Aktiengesellschaft. Wet charged percussion cap. 3,439,618, 4-22-69, Cl. 102-86.5
Gawlick, Heinz; Marondel, Gunther; Bendler, Hellmut; and Siegelin, Werner, to Dynamit Nobel Aktiengesellschaft. Propellant composition containing an organic tetrazole derivative and metal oxidizer. 3,468,730, 9-23-69, Cl. 149-61.
Gawlick, Heinz; and Stahlmann, Rudolf, to Dynamit Nobel Aktiengesellschaft. Practice ammunition. 3,476,049, 11-4-69, Cl. 102-92.7
Gawlick, Heinz; Stahlmann, Rudolf; and Umbach, Hans, to Dynamit Nobel Aktiengesellschaft. Cartridge. 3,444,812, 5-20-69, Cl. 102-39.
Gawlick, Heinz; and Umbach, Hans, to Dynamit Nobel Aktiengesellschaft. Cartridge. 3,435,765, 4-1-69, Cl. 102-39.
Gawron, Alex F., to Skil Corporation. Transformer means for a multi-phase frequency generator. 3,424,962, 1-28-69, Cl. 318-138.
Gawron, Stanley A., to Addressograph-Multigraph Corporation. Method and means for photoelectrostatic charging. 3,456,109, 7-15-69, Cl. 250-49.5
Gawrylowicz, Henry: *See*—
Canavan, John J.; Gawrylowicz, Henry; Buckley, William J., Jr.; and Johns, William,3,430,863.
Gay, Charles DC: *See*—
Mongelluzzo, Ralph Vincent; and Gay, Charles DC,3,450,148.
Gay, Duncan: *See*—
Kerr, John; and Gay, Duncan,3,479,098.
Gay, Frank Munro, to Cossor, A. C., Limited. Thermo-couple device for current measurement. 3,477,880, 11-11-69, Cl. 136-207.
Gay, Frank P.; and Agolini, Franco, to Du Pont de Nemours, E. I., and Company. Polyimides prepared from azo containing diamines. 3,455,879, 7-15-69, Cl. 260-47.
Gay, Herman P.: *See*—
Kirkendall, Richard D.; Deas, Robert W.; McCall, Nelson H.; and Gay, Herman P.,3,453,882.
Gay, Michel J. L.; and Penaud, Marcel, to Office National d'Etudes et de Recherches Aerospatiales. Measuring system for pneumatic infrared detector. 3,426,202, 2-4-69, Cl. 250-83.3
Gay, Michel J.: *See*—
Contensou, Pierre L.; Delattre, Michel M.; and Gay, Michel J.,3,438,267.
Gay, Michel Louis Marie Joseph: *See*—
Brossard, Bernard Pierre; Boichard, Jacques; and Gay, Michel Louis Marie Joseph,3,428,675.
Gay, Pierre, to Compagnie des Ateliers et Forges de la Loire. Devices for cold-rolling and planishing metal sheet. 3,427,848, 2-18-69, Cl. 72-205.
Gaydos, John E. Wire hanger clip. 3,484,029, 12-16-69, Cl. 223-85.
Gayet, Alain, to Societe Industrielle Bull-General Electric (Societe Anonyme). Data storage device. 3,425,041, 1-28-69, Cl. 340-173.1
Gayford, Michael Lawrence: *See*—
Drake, Cyril Francis; and Gayford, Michael Lawrence,3,445,596.
Gayle, Robert E., to Phantom Products, a division of Pflueger Corporat ion. Mounting bracket for outboard motors. 3,424,412, 1-28-69, Cl. 248-4.
Gayle, Robert E., to Phantom Products. Shaft sealing means for underwater motors. 3,434,726, 3-25-69, Cl. 277-36.
Gayle, Robert E., to Shakespeare Company, mesne. Seal for a rotating shaft. 3,482,843, 12-9-69, Cl. 277-59.
Gayle, Tom M., to United States of America, Atomic Energy Commission. Catalytic combustion detector for gas chromatography. 3,460,909, 8-12-69, Cl. 23-254.
Gaylor, Randall, to Sperry Rand Corporation. Self-adaptive control system. 3,460,013, 8-5-69, Cl. 318-18.
Gaylor, Robert B., Jr., to Sinclair-Koppers Company. Foam plastic egg carton. 3,469,764, 9-30-69, Cl. 229-44.
Gaylord, John F., Jr., to Medical Specialties, Inc. Restraining device for bedridden persons. 3,474,781, 10-28-69, Cl. 128-134.
Gaylord, Norman G., to National Distillers and Chemical Corporation. Organic polymers from α-methylene glutaramide. 3,452,117, 6-24-69, Cl. 260-836.
Gaylord, Norman G., to U.S. Plywood-Champion Paper Inc. Compatibilization of polymers by adding graft copolymers. 3,485,777, 12-23-69, Cl. 260-17.4
Gaymar Industries Inc.: *See*—
Whitney, John K., 3,462,778.
Gaynor, Gerard H., to Minnesota Mining and Manufacturing Company. Analog-to-digital voltage converter. 3,483,468, 12-9-69, Cl. 324-99.
Gaynor, Joseph, to General Electric Company. Information recording and display with particle migration in an electric field. 3,450,831, 6-17-69, Cl. 178-6.6
Gaynor, Joseph, to General Electric Company. Color transparencies produced by electrophotographic techniques. 3,458,309, 7-29-69, Cl. 96-1.2
Gaynor, Joseph; Sewell, Gordon J.; and Metlay, Max, to General Electric Company. Image deposition by means of a light sensitive solution containing organic haloform compounds and a dye. 3,434,835, 3-25-69, Cl. 96-35.
Gazale, Midhat Joseph. Educational apparatus. 3,482,331, 12-9-69, Cl. 35-30.
Gazalski, John J. Decoy. 3,478,459, 11-18-69, Cl. 43-3.
Gazis, Denos C.: *See*—
Barrekette, Euval S.; Freiman, Charles V.; Gazis, Denos C.; and Lovell, John E.,3,453,595.
Gazzard, Edward George; and Greenshields, James Nairn, to Imperial Chemical Industries Limited. Polymerisable bis-amides. 3,431,283, 3-4-69, Cl. 260-345.7
Gazzard, Edward George; and Greenshields, James Nairn, to Imperial Chemical Industries Limited. Amides of pyran derivatives and acrylic or substituted acrylic acid. 3,441,561, 4-29-69, Cl. 260-240.
Gazzo, Joseph F. Coffee percolation control. 3,439,602, 4-22-69, Cl. 99-285.
Gazzoli, Anthony, 24 1/2% to Mazzocchi, Alfred A. 24 1/2% to Danahy, C. Joseph, and Delaney, James J., d/b/a Danahy & Delaney. Connection device and insulator for electric wiring. 3,452,150, 6-24-69, Cl. 174-87.
G.B. Tools and Components Exports Limited: *See*—
Morrison, William Craig, 3,452,975.
Gburek, John J.; Bryzinsky, Frank M.; and Grazen, Frank S., to Hooker Chemical Corporation. Phenolic resins for elastomeric compositions. 3,474,065, 10-21-69, Cl. 260-38.
GCA Corporation: *See*—
Nollet, Anthony R., 3,438,305.
Stetson, Karl A.; and Elion, Herbert A., 3,434,339.
GCOptronics, Inc.: *See*—
Grant, Ralph M., 3,445,855.
Gdula, Robert Anthony: *See*—
Rubin, Jack Alvin; and Gdula, Robert Anthony,3,471,306.
Geacintov, Cyril; Eichenbaum, Raymond; and Wu, William C. L., to Mobil Oil Corporation. Copolymers of butene-1 and propylene. 3,464,962, 9-2-69, Cl. 260-88.2
Gealy, Smith W., to PPG Industries, Inc. Handling apparatus. 3,437,369, 4-8-69, Cl. 294-78.
Geary, Charles Gerald, to Du Pont de Nemours, E. I., and Company. Process for eliminating stain and photographic elements therefor. 3,486,896, 12-30-69, Cl. 96-67.
Geary, Daniel; McKewon, Thomas E.; Harris, Richard S.; and Bolen, Herbert L., to Fenix & Scisson, Inc. Single position extensometer. 3,460,258, 8-12-69, Cl. 33-1.
Geary, James Edward, Jr.; Harsch, William Edward; Maxwell, John Murdock; and Rego, Richard Donald, to Du Pont de Nemours, E. I., and Company. Method of manufacture of fluid separation apparatus. 3,442,002, 5-6-69, Cl. 29-450.
Geating, Chester J. Machine for circumferential color coding. 3,434,456, 3-25-69, Cl. 118-211.
Geb. Eickhoff, Maschinenfabrik und Eisengiessersi m.b.H.: *See*—
Klapp, Heinz, 3,469,508.
Gebauer, Albert W., to Scientific Separalors, Inc. Particle separation apparatus and method. 3,441,131, 4-29-69, Cl. 209-3.
Gebauer, Herbert: *See*—
Nentwig, Joachim; Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebauer, Herbert,3,437,616.
Gebauer, Karl; Brugger, Robert; and Heiling, Heinzfelix M., to Langbein-Pfanhauser Werke A.G. Method of vapor sealing anodically produced oxide films on aluminum and aluminum alloys. 3,447,953, 6-3-69, Cl. 117-106.

Gebel, Kurt M.: *See—*
Price, Ralph E.; and Gebel, Kurt M.,3,482,361.
Gebel, Radames K. H., to United States of America, Air Force. Electronic camera utilizing special foil covered film. 3,427,450, 2-11-69, Cl. 250-49.5
Gebel, Radames K. H., to United States of America, Air Force. Eye protecting electronic viewer. 3,463,960, 8-26-69, Cl. 315-10.
Gebel, Radames K. H., to United States of America, Air Force. Color matching system incorporating color analyzer. 3,476,132, 11-4-69, Cl. 137-93.
Gebel, Radames K. H., to United States of America, Air Force. Image transducers using extrinsic semiconductors. 3,479,455, 11-18-69, Cl. 178-7.2
Gebel, Radames K. H., to United States of America, Air Force. Image transducers using extrinsic photoconductors. 3,483,320, 12-9-69, Cl. 178-6.8
Gebendinger, Mario. Mechanical coupling providing a rigid connection and a flexible connection. 3,456,514, 7-22-69, Cl. 74-110.
Gebendinger, Mario. Tree crop harvester. 3,482,382, 12-9-69, Cl. 56-329.
Gebert, William H.: *See—*
Herzog, Hershel L.; Gebert, William H.; Murrill, Nathaniel M.; and Groecela, Raymond,3,463,793.
Gebhard Satzinger Metallwarenfabrik: *See—*
Satzinger, Gebhard, 3,430,731.
Gebhardt, Alfred A., to Del Mar Engineering Laboratories. Movable pedestal. 3,485,046, 12-23-69, Cl. 60-52.
Gebhardt, Edwin J.: *See—*
Kessler, Monroe H.; and Gebhardt, Edwin J.,3,460,997.
Gebhardt, Fritz: *See—*
Henneberger, Friedrich; and Gebhardt, Fritz,3,469,942.
Gebhardt, Jerome G., to DCA Food Industries Inc. Dismountable dough ring forming device. 3,455,254, 7-15-69, Cl. 107-14.
Gebhardt, Joseph J., to United States of America, Navy, mesne. Process for depositing boron carbide. 3,480,467, 11-25-69, Cl. 117-93.
Gebhardt, Reinhold: *See—*
Stechemesser, Ernst; and Gebhardt, Reinhold,3,455,217.
Gebhart, Herbert J., Jr.; and Makin, Earle C., Jr., to Monsanto Company. Separating acyclic hydrocarbons by hydrate formation. 3,449,241, 6-10-69, Cl. 208-308.
Geble, Paul H.; Smolin, Edwin M.; Wang, Tze Seng; and Volgstadt, Frank R., to Diamond Shamrock Corporation. Liquid polymercaptan resins stabilized with Nitrogenous bases. 3,457,219, 7-22-69, Cl. 260-45.8
Gebler, Eugen, to Bayerische Motoren Werke A.G. Independent wheel suspension for steerable wheels of motor vehicles, especially passenger motor vehicles. 3,462,168, 8-19-69, Cl. 280-96.2
Gebler, Kenneth A.; and Ortner, Martin H., to Vitro Corporation of America. Production of uniformly gradated coatings. 3,467,588, 9-16-69, Cl. 204-181.
Gebnauer, Herbert: *See—*
Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebnauer, Herbert,3,477,977.
Gebo, Charles H., to Taylor Instrument Companies. System having means for discriminating against undesired signal phase and polarity. 3,454,887, 7-8-69, Cl. 330-10.
Gebr. Battenfeld: *See—*
Langecker, Erhard, 3,452,391.
Gebr. Bohler & Co. Aktiengesellschaft: *See—*
Dorfler, Gerhard, 3,479,506.
Holzgruber, Wolfgang; Kleinhagauer, Othmar; and Schwanter, Fritz, 3,439,103.
Schwarz, Ludwig, 3,482,259.
Strohmeier, Harald, 3,458,086.
Tarmann, Bruno, 3,467,170.
Gebr. Claas Maschinenfabrik G.m.b.H.: *See—*
Stokland, Sigmund, 3,481,344.
Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H.: *See—*
Droste, Werner; and Lanfermann, Willy, 3,482,879.
Frenyo, Pal; and Klottschen, Heinz, 3,477,762.
Lanfermann, Willy, 3,456,984.
Lanfermann, Willy; and Simonides, Heinz, 3,473,846.
Lucas, Horst, 3,432,023.
Meissner, Johannes; Bockau, Gustav; and Reike, Siegfried, 3,437,382.
Gebr. Happich G.m.b.H.: *See—*
Bornefeld, Heinz, 3,429,610.
Cziptschirsch, Kurt; and Mahler, Gert, 3,487,444.
Herr, Gerhard, 3,471,979.
Herr, Gerhard; and Treber, Willy O., 3,487,420.
Gebr. Mynhardt C.V.: *See—*
Leyten, Johannes, 3,442,131.
Gebr. Orthlinghaus: *See—*
Ortlinghaus, Otto; Ortlinghaus, Adolf; and Lemp, Jurgen, 3,469,664.
Gebr. Pfeiffer Barbarossawerke AG.: *See—*
Schauer, Siegfried, 3,476,244.
Gebr. Staiger: *See—*
Jackle, Reinhard, 3,472,020.
Gebr. Staubli & Co: *See—*
Schwarz, Rudolf, 3,441,060.
Gebr. Staublic & Co.: *See—*
Favre, Marcel, 3,459,236.
Gebr. Stork & Co's Apparatenfabriek N.V.:*See—*
Jansen, Lodewijk, 3,445,179.
Muselaers, Cornelis Johannes Maria, 3,438,078.
Smorenburg, Johannes J., 3,483,589.
Van der Winden, Johannes Bernardus, 3,420,167.
van Es, Machiel, 3,477,501.
Gebr. ter Braak N.V.: *See—*
ter Braak, Bernardus, 3,453,985.
Gebruder Buhler AG: *See—*
Eggenberger, Ulrich; and Neuenschwander, Karl A., 3,433,290.
Eppenberger, Paul, 3,431,699.
Hafliger, Albert, 3,467,031.
Locatelli, Giovanni, 3,472,354.
Oetiker, Hans, 3,441,134.
Rado, Antonio; and Tognazza Bruno G., 3,476,326.
Stillhard, Bruno, 3,481,001.
Gebruder Buhler Nackfolger G.m.b.H.: *See—*
Mieslinger, Winfried, 3,475,668.
Gebruder Einfalt Blechspielwarenfabrik: *See—*
Einfalt, Alfred, 3,426,474.
Einfalt, Alfred, 3,466,791.
Gebruder Herrmann: *See—*
Wacks, Klaus; and Burger, Helga, 3,443,892.
Gebruder Honsberg: *See—*
Clashusen, Walter, 3,434,375.
Gebruder Junghans Gesellschaft mit beschrankter Haftung: *See—*
Ganter, Wolfgang; and Assmus, Friedrich, 3,456,137.
Ganter, Wolfgang; and Assmus, Friedrich, 3,485,034.
Ganter, Wolfgang; and Assmus, Friedrich, 3,485,035.
Von Zeppelin, Kurt; Assmus, Friedrich Fritzof; and Wolber, Robert, 3,444,747.
Wolber, Robert; and Hettich, Otto, 3,445,612.
Gebruder Kollisch AG: *See—*
Weissmann, Peter, 3,484,178.
Gebruder Moller Glasblaserei: *See—*
Simon, Wilhelm; and Wegmann, Dorothee, 3,445,363.
Gebruder Netzsch: *See—*
John, Willy; and Bauerfeind, Herbert, 3,427,825.
John, Willy, 3,429,207.
Gebruder Netzsch Maschinenfabrik: *See—*
Geissel, August, 3,432,109.
Gebsattel, Christof, to Siemens Aktiengesellschaft. Counting signal translating system. 3,436,532, 4-1-69, Cl. 235-154.
Geckle, Thomas E.: *See—*
Stankavich, Anthony J.; and Geckle, Thomas E.,3,428,492.
Stankavich, Anthony J.; and Geckle, Thomas E.,3,429,748.
Gedcke, Dale A.: *See—*
Jones, Alun R.; and Gedcke, Dale A.,3,428,807.
Geddes, George, Sr.; and Kay, Jennie Geddes. Rotary valve faucet. 3,428,294, 2-18-69, Cl. 251-182.
Geddes, James C., Jr.: *See—*
Curry, Robert P.; and Geddes, James C., Jr.,3,426,082.
Geddes, Ray L.; and Jacobs, John K., to Stone & Webster Engineering Corporation. Demethanization employing different temperature level refrigerants. 3,444,696, 5-20-69, Cl. 62-28.
Geddes, William Keith Elliott; and Rout, Eric Raymond, to Marconi Company Limited, The Standard Telephones & Cables Limited. Dropout compensator with single-level signal storage. 3,428,762, 2-18-69, Cl. 179-100.2
Geddry, Bernard L.; Mehron, Martin E.; and Cote, Maurice F., to Sanders Associates, Inc. Multiple-path electronic component. 3,474,358, 10-21-69, Cl. 333-7.
Gedny, Patrick: *See—*
Smerd, Johann Hans Otto; and Gedny, Patrick,3,484,927.
Gedris, Algis E.; Weber, Hans B.; and Brown, Joseph, to Midland-Ross Corporation. Snubbed railway truck bolster. 3,461,815, 8-19-69, Cl. 105-197.
Gee, Allen, to Hughes Aircraft Company. Method of treating semiconductor devices or components. 3,430,335, 3-4-69, Cl. 29-588.
Gee, Allen, to Hughes Aircraft Company. Pin diode with a non-uniform intrinsic region width. 3,458,777, 7-29-69, Cl. 317-234.
Gee, James H., to FMC Corporation. Stabilizing mechanism for carrier in conveyor system. 3,443,526, 5-13-69, Cl. 104-96.
Gee, Kenneth H., to Bethlehem Steel Corporation. Single-cast immersion thermocouple for continuous measurement of molten metal temperatures. 3,451,863, 6-24-69, Cl. 136-234.
Gee, Lawrence N.; and Jones, Vernon A. Sectional retractable flux-charging chute for oxygen steel-making vessel. 3,471,042, 10-7-69, Cl. 214-35.

Gee, Paul Y. C.; and Andress, Harry J., Jr., to Mobil Oil Corporation. Liquid hydrocarbon compositions containing acylated styrenes as fluidity improvers. 3,485,756, 12-23-69, Cl. 252-52.
Gee, Paul Y. C.; and Andress, Harry J., Jr., to Mobil Oil Corporation. Metal alkyl, or alkoxy metal alkyl, ester tetrapropenylsuccinates. 3,485,858, 12-23-69, Cl. 260-429.9
Gee, Paul Y. C.: *See—*
Andress, Harry J., Jr.; and Gee, Paul Y. C.,3,449,424.
Gee, Thomas A., to Eaton Yale & Towne Inc. Universal joint having unique boot means. 3,430,457, 3-4-69, Cl. 64-15.
Geen, Henry C.; and Rice, Edwin E., to Chemotronics, Incorporated. Process for treating articles of manufacture to eliminate superfluous projections. 3,475,229, 10-28-69, Cl. 148-9.
Geen, Joseph H.: *See—*
Luebbert, William K.; Geen, Joseph H.; and Roberts, Larry P.,3,471,186.
Geer, Ronald L.: *See—*
Newman, Nicholas B.; Foster, Kenneth W.; and Geer, Ronald L.,3,474,857.
Otteman, Lloyd G.; and Geer, Ronald L.,3,434,296.
Geerards, Jozef J. T. M.; and Wijler, Bert H. L. M., to Stamicarbon N.V. Process for the preparation of oil-extended rubbery polymers. 3,449,283, 6-10-69, Cl. 260-29.6
Geerdes, James Divine; and Kuechler, William Lewis, to Du Pont de Nemours, E. I., and Company. Process for stretching filaments. 3,452,131, 6-24-69, Cl. 264-210.
Geering, Emil J., to Hooker Chemical Corporation. Pesticidal use of benzothiophenes and benzothienothiophenes. 3,433,874, 3-18-69, Cl. 424-275.
Geering, Emil J.; and Stratton, George B., to Hooker Chemical Corporation. Process for the preparation of orthomercaptophenols. 3,468,961, 9-23-69, Cl. 260-609.
Gefco Manufacturing Corp.: *See—*
Surek, Casimer, 3,444,547.
Geffner, Ted. Releasable connectors. 3,430,305, 3-4-69, Cl. 24-211.
Geffner, Ted. Anti-friction bearings. 3,446,540, 5-27-69, Cl. 308-6.
Gefroh, Ambrose P. Swingout undercounter container holder. 3,458,243, 7-29-69, Cl. 312-329.
Gegauf, Fritz, Aktiengesellschaft, Bernina- Nahamaschinenfabrik: *See—*
Gegauf, Fritz, 3,472,190.
Gegauf, Fritz, to Fritz Gegauf Aktiengesellschaft. Friction coupling device for a sewing machine. 3,454,145, 7-8-69, Cl. 192-94.
Gegauf, Fritz, to Gegauf, Fritz, Aktiengesellschaft, Bernina-Nahamaschinenfabrik. Sewing machine having needle thread tensioning device. 3,472,190, 10-14-69, Cl. 112-254.
Gegenheimer, Harold W.; and Stad, Andrew N., to Baldwin-Gegenheimer Corporation. Vibrating roller. 3,452,673, 7-1-69, Cl. 101-349.
Gegenheimer, Harold W.; and Wyatt, James B., to Baldwin-Gegenheimer Corporation. Fountain solution system and apparatus therefor. 3,485,257, 12-23-69, Cl. 137-91.
Gegg, Michael J. Ratchet wrench with hydraulically operated lock. 3,466,953, 9-16-69, Cl. 81-58.3
Gegner, Emil: *See—*
Keuth, Heinz; Heyer, Alfred; and Gegner, Emil,3,447,009.
Gego, Arnold: *See—*
Gugenhan, Heinrich; and Gego, Arnold,3,452,822.
Gehlbach, Albert E.: *See—*
Blough, Ronald S.; and Gehlbach, Albert E.,3,469,816.
Gehlhaus, Paul H.: *See—*
Cahill, Richard H.; and Gehlhaus, Paul H.,3,445,304.
Gehman, David R.: *See—*
Fiarman, Irwin S.; and Gehman, David R.,3,467,610.
Gehman, Harvey H.; and Gehman, Roland P. Cutting machine for stalk crops. 3,436,901, 4-8-69, Cl. 56-26.5
Gehman, Roland P.: *See—*
Gehman, Harvey H.; and Gehman, Roland P.,3,436,901.
Gehman, Roland P.; Martin, Eugene G.; and Smith, Edgar H., to MGS Incorporated. Foam generating mechanism for dust control. 3,453,678, 7-8-69, Cl. 15-50.
Gehmann, Walter. Annular gun sight. 3,456,351, 7-22-69, Cl. 33-50.
Gehret, Frederick A., to SKF Industries, Inc. Seal for rolling bearings. 3,472,519, 10-14-69, Cl. 277-59.
Gehrie, Charles S., to Presto Lock Co., Inc. Latching device and combination locking means. 3,439,515, 4-22-69, Cl. 70-288.
Gehrie, Charles S., to Presto Lock Co., Inc. Latching and locking means for luggage cases or the like. 3,461,697, 8-19-69, Cl. 70-71.
Gehrig, Neil E.: *See—*
Bluhm, Harold F.; and Gehrig, Neil E.,3,447,979.
Gehrig, Neil E., to Atlas Chemical Industries, Inc. Nitric acid sensitized cap sensitive explosives with gelation catalyst and entrapped air. 3,470,041, 9-30-69, Cl. 149-2.
Gehring, Albert; and Sailer, Richard, to Inventa A.G. fur Forschung und Patentverwertung. Process for the manufacture of *p*-hydroxybenzoic acid. 3,435,068, 3-25-69, Cl. 260-521.
Gehring, Albert; Schneller, Heinz; Fueg, Heinz; Haberthur, Kurt; and Matsuya, Koichi, to Inventa A.G. fur Forschung und Patentverwertung. Device for heterogeneous catalytic gas reactions. 3,484,214, 12-16-69, Cl. 23-288.
Gehring, Arthur J.; Gardner, Henry J.; Braxton, James L.; and Crellin, Edwin W., to Sperry Rand Corporation. Structure providing printed translation of coded information on coded member. 3,465,866, 9-9-69, Cl. 197-20.
Gehring, Eckard: *See—*
Claus, Kurt; and Gehring, Eckard,3,456,329.
Gehringer, Joseph H.; and Vercellone, Peter T., to United Aircraft Corporation. Integral seal for aircraft launching cylinder. 3,421,718, 1-14-69, Cl. 244-63.
Gehrke, Gunter: *See—*
Hederich, Volker; and Gehrke, Gunter,3,467,681.
Gehrke, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of compounds of the 1,4-dianilino-5- nitro-8-hydroxyanthraquinone series. 3,444,215, 5-13-69, Cl. 260-380.
Gehrke, Kenneth W., to International Harvester Company. Hydraulic track adjuster for tractor. 3,463,559, 8-26-69, Cl. 305-10.
Gehrke, Robert C., to Caloric Corporation. Spark ignition device with a gas control valve and a switch. 3,436,165, 4-1-69, Cl. 431-256.
Gehrmann, Friedrich Karl: *See—*
Scheffler, Friedrich; Stangl, Ernst; and Gehrmann, Friedrich Karl,3,449,539.
Gehrmann, Horst, to Siemens Aktiengesellschaft. Circuit arrangement for telegraph storage exchange installations. 3,439,119, 4-15-69, Cl. 178-17.5
Gehrts, John F. Marble raceway game. 3,451,678, 6-24-69, Cl. 273-86.
Gehweiler, Edward C.; and Daigle, Amerst, to Brady, W. H., Co. Marker applier. 3,453,660, 7-1-69, Cl. 156-378.
Geib, Clarence B., Jr.; Jamison, George E.; and Scott, Jack N., to International Rectifier Corporation. Selenium rectifier. 3,439,240, 4-15-69, Cl. 317-241.
Geibel, Emmett H., to Fedders Corporation, mesne. Valve control assembly. 3,486,529, 12-30-69, Cl. 137-625.4
Geideman, William A., Jr.: *See—*
Van Ornum, Delbert G.; Geideman, William A., Jr.; and Muller, Kurt,3,469,143.
Geier, Frank W. Wall furniture cabinet unit. 3,479,103, 11-18-69, Cl. 312-198.
Geierhaas, Herbert: *See—*
Wunsch, Gerd; Wintersberger, Karl; and Geierhaas, Herbert,3,481,988.
Geiger, Eugene J.; and Breen, Dale H., to International Harvester Company. Internal combustion engine piston with pre-stressed insert. 3,475,804, 11-4-69, Cl. 29-156.5
Geiger, Hans F. Dispenser device. 3,463,371, 8-26-69, Cl. 225-44.
Geiger, John H. Map game apparatus. 3,484,108, 12-16-69, Cl. 273-135.
Geiger, Joseph A. Container with easy-opening device. 3,448,887, 6-10-69, Cl. 220-54.
Geiger, Kermit K.: *See—*
Karmell, Yale; and Geiger, Kermit K.,3,451,112.
Geiger, Max, to Ciba Limited. Pesticidal preparations. 3,470,293, 9-30-69, Cl. 424-84.
Geiger, Paul B., to Hobart Manufacturing Company, The. Rack system for dishwashing machine. 3,472,573, 10-14-69, Cl. 312-351.
Geiger, Paul B.: *See—*
Geiger, Russell C.; Geiger, Paul B.; and Meeker, David A.,3,430,861.
Geiger, Rolf: *See—*
Horner, Leopold; Neumann, Heinz; and Geiger, Rolf,3,431,186.
Vogel, Gerhard; Geiger, Rolf; and Sturm, Karl,3,483,291.
Wissmann, Hans; Siedel, Walter; and Geiger, Rolf,3,487,047.
Geiger, Russell C.; Geiger, Paul B.; and Meeker, David A., to Hobart Manufacturing Company, The. Liquid distributing system for dishwashing machine. 3,430,861, 3-4-69, Cl. 239-251.
Geiger, William J.: *See—*
Browning, Iben; Geiger, William J.; and Strand, Edward R.,3,435,667.
Geigy Chemical Corporation: *See—*
Adank, Kurt; and Prins, Daniel A., 3,452,095.
Allison, Robert Corwin; Fischer, Franz; and Hausermann, Heinrich, 3,479,349.
Arnold, Winfried; and Morel, Charles J., 3,484,527.
Baylis, Eric Keith; Pickles, Wilfred; and Sparrow, Kenneth David, 3,441,604.
Biedermann, Robert, 3,460,983.
Block, Fred B.; and Clarke, Frank H., Jr., 3,480,638.
Catsch, Alexander, 3,480,715.
Chambers, Charles D., 3,442,425.
Clarke, Frank H., Jr.; and Block, Fred B., 3,449,331.
Clarke, Frank H., Jr.; and Block, Fred B., 3,449,332.
Clarke, Frank H., Jr., 3,470,171.
Coulson, Samuel Howard, 3,466,257.
Dalle, Gerard, 3,460,351.
Dazzi, Joachim; Schwarzenbach, Kurt; and Keller, Ernst, 3,424,683.
Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert, 3,435,065.

Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,441,575.
Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,457,286.
Dexter, Martin; and Spivack, John Denon, 3,467,666.
Dietrich, Henri, 3,435,028.
Dietrich, Henri, 3,450,721.
Doebel, Karl J.; and Francis, John E., 3,422,105.
Doebel, Karl J.; and Francis, John E., 3,429,882.
Doebel, Karl J.; and Francis, John E., 3,479,355.
Doebel, Karl J.; and Pfenninger, Heinz A., 3,483,187.
Ferguson, John F., 3,432,503.
Fischer, Franz; and Bettschen, Erwin, 3,475,190.
Fratta, Italo, 3,452,141.
Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad, 3,436,399.
Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad, 3,459,862.
Gagneux, Andre R.; and Hafliger, Franz, 3,465,034.
Gansser, Charles; and Schindler, Walter, 3,444,159.
Gaunt, John A.; and Petree, Harris E., 3,424,776.
Gosling, Richard H., 3,482,021.
Greengard, Paul; and Petrack, Barbara, 3,462,534.
Gruenfeld, Norbert, 3,459,763.
Gubler, Kurt, 3,449,502.
Hall, Luther A. R., 3,477,957.
Hausermann, Heinrich, 3,429,880.
Hausermann, Heinrich; Schlapfer, Hans; and Tscharner, Christopher Johannes, 3,472,842.
Johl, Albert; Hartmann, Albert; and Rink, Hans, 3,459,864.
Kleine r, Eduard K., 3,428,709.
Kleiner, Eduard K., 3,483,277.
Knell, Martin, 3,455,994.
Knell, Martin, 3,475,434.
Kuhnis, Hans Herbert; Ryf, Hugo; and Denss, Rolf, 3,456,060.
Kung, Werner; and Prins, Daniel A., 3,446,798.
Lee, Samuel, 3,459,572.
Lei, Jorgen C. C.; and Clauson-Kaas, Niels, 3,471,506.
Lipman, Roger D. A., 3,470,145.
Marand, Jean, 3,451,596.
Margot, Alfred, 3,433,641.
Margot, Alfred; and Gallay, Jean-Jacques, 3,453,313.
Meisels, Alex; and Storni, Angelo, 3,452,021.
Meisels, Alex; Denss, Rolf; and Ryf, Hugo, 3,479,361.
Meisels, Alex; Denss, Rolf; and Ryf, Hugo, 3,479,363.
Pacini, Pier Luigi, 3,445,491.
Paltauf, Friedrich; Menasse, Raphael; and Gatzi, Karl, 3,483,245.
Pesterfield, Enos Charles, Jr., 3,432,520.
Pesterfield, Enos Charles, Jr., 3,435,051.
Peterli, Hans Jakob; and Randell, Donald Richard, 3,475,412.
Peterson, Janet Brooks; and Dexter, Martin, 3,459,704.
Pfenninger, Heinz A., 3,468,894.
Pfister, Rudolf; Sallmann, Alfred; and Hammerschmidt, Winrich, 3,455,999.
Randall, Donald Richard; and Howard, Donald Kearey, 3,452,038.
Renner, Ulrich; and Prins, Daniel A., 3,481,937.
Rousselot, Felix, 3,478,933.
Saul, George A., 3,436,394.
Schindler, Walter; and Blattner, Hans, 3,458,499.
Schindler, Walter; Blattner, Hans; and Zust, Armin, 3,464,991.
Schindler, Walter; and Dietrich, Henri, 3,467,650.
Schramek, Henri; Riethmann, Jean; and Kallen, Jorg, 3,449,324.
Schroter, Herbert; and Prins, Daniel A., 3,422,104.
Sigg, Ernest B., 3,423,510.
Stoll, Willy G., 3,448,200.
Tanz, Ralph D., 3,452,094.
Taub, William; Denss, Rolf; and Ostermayer, Franz, 3,459,865.
Traber, Walter, 3,475,422.
Trickey, Elwood Bruce, 3,485,589.
Tscharner, Christopher Johannes, 3,428,628.
Varsanyi, Denis; and Roth, Willy, 3,467,532.
Zimmermann, Markus, 3,438,980.
Zimmermann, Markus, 3,441,560.
Zimmermann, Markus, 3,457,278.
Zussman, Hyman William; and Hausermann, Heinrich, 3,459,743.
Zweidler, Reinhard; and Keller, Max, 3,467,600.

Geigy, J. R., A.G.: *See—*
Ackermann, Hans; Frei, Hermann; and Meindl, Hubert, 3,433,781.
Bossard, Werner; Favre, Francois; Wegmuller, Hans E.; and Voltz, Jacques, 3,471,468.
Bosshard, Hans; and Bossard, Werner, 3,422,111.
Burdeska, Kurt E.; von der Crone, Jost; Menasse, Raphael; and Pugin, Andre, 3,424,767.
Drago, Leo, 3,457,029.
Drago, Leo, 3,466,899.
Grauer, Theodor; and Urwyler, Heinrich, 3,452,043.
Knusli, Enrico; and Rumpf, Jurg, 3,429,881.
Kolliker, Hans Peter; and Hindermann, Peter, 3,421,828.
Pugin, Andre; Burdeska, Kurt E.; and Staub, Alfred, 3,483,213.
Pugin, Andre; Burdeska, Kurt E.; and Staug, Alfred, 3,484,454.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi, 3,467,485.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi, 3,468,620.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi, 3,471,248.
Schnabel, Ernfred Peer Ottokar; and Stocker, Emil, 3,459,730.
Schwander, Hans Rudolf; Zenhausern, Anton; and Hindermann, Peter, 3,431,285.
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann, Peter, 3,455,969.
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann, Peter, 3,462,463.
Soiron, Charles; Rafael, Hans; and Stockar, Walter, 3,467,486.
Steiner, Eginhard; and Biedermann, Walter, 3,459,727.
Stewart, John Dewar; and Hamilton, Alexander, 3,424,759.
Stocker, Emil, 3,445,453.
Voltz, Jacques, 3,435,022.
Voltz, Jacques; and Hausermann, Heinrich, 3,458,880.
Wegmuller, Hans E.; and Bossard, Werner, 3,471,467.
Zurbuchen, Jakob; and Bindler, Jakob, 3,436,169.

Geil, Fred G.: *See—*
Nelkin, Arthur; Durgin, Charles B.; Geil, Fred G.; and Thompson, John H.,3,438,021.

Geiler, William A.: *See—*
Goldfarb, Alvin; and Geiler, William A.,3,464,413.

Geilert, Georg Erick Max, to Baker Bros. Inc. Adjustable electrode transporter for lateral electrode spacing during electroplating. 3,455,809, 7-15-69, Cl. 204-198.

Geiling, Hermann; and Weberling, Paul. Underwater locating and intercommunicating device, particularly for free-swimming divers. 3,469,231, 9-23-69, Cl. 340-6.

Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., to Borg-Warner Corporation. Audio-visual educational apparatus. 3,483,633, 12-16-69, Cl. 35-9.

Geimuplast Peter Mundt KG: *See—*
Mundt, Peter; and Urban, Otfried, 3,478,456.

Geipel, Lothar Ernst, to Stauffer Chemical Company. Method for the production of silicone gums. 3,433,765, 3-18-69, Cl. 260-46.5

Geis, Everett R.: *See—*
Borden, Jay R.; Boutin, Lucien J.; Geis, Everett R.; and Krauthamer, Stanley,3,452,266.
Borden, Jay R.; Geis, Everett R.; Lamaster, Donald M.; and Krauthamer, Stanley,3,482,157.

Geis, Everett R., to Borg-Warner Corporation. A-C voltage regulator. 3,435,248, 3-25-69, Cl. 307-46.

Geis, Everett R., to Borg-Warner Corporation. Ratio control system. 3,447,050, 5-27-69, Cl. 318-67.

Geisel, Herbert: *See—*
Seulen, Gerhard; Geisel, Herbert; and Stangl, Ernst,3,446,930.

Geisel, Herbert; and Springob, Leonhard, to AEG-Elotherm G.m.b.H. Crossfield inductor for inductively heating workpieces of varying cross section. 3,472,992, 10-14-69, Cl. 219-10.79

Geiselman, Donald L., to Dresser Industries, Inc. Operating mechanism for butterfly valve. 3,420,500, 1-7-69, Cl. 251-288.

Geiselman, Donald L., to Dresser Industries, Inc. Sealing means for butterfly valve. 3,471,120, 10-7-69, Cl. 251-306.

Geiselman, Donald L., to Dresser Industries, Inc. Butterfly valve. 3,471,121, 10-7-69, Cl. 251-308.

Geisenhaver, Arthur J., to Tecumseh Products Company. Compressor-motor assembly. 3,464,107, 9-2-69, Cl. 29--596

Geisinger, George H., to Thomas & Betts Co., The. Bulkhead mounting plate. 3,454,247, 7-8-69, Cl. 248-56.

Geisinger, George H., to Thomas & Betts Co., The. Tie down plate. 3,454,249, 7-8-69, Cl. 248-205.

Geisler, Hans Ferdinand; and Langanke, Helmut F., to Vickers-Zimmer Aktiengesellschaft, Planung und Bau von Industrieanlagen. Method of separating low-molecular weight components from high-polymeric compounds by thin film vacuum distillation. 3,449,220, 6-10-69, Cl. 203-89.

Geisler, William, to Fibreboard Corporation. Apparatus and method for forming cylindrical containers. 3,424,069, 1-28-69, Cl. 93-77.

Geisler, William; and Clark, Norman R., to Fibreboard Corporation. Apparatus for applying bundling clips. 3,430,326, 3-4-69, Cl. 29-211.

Geisler, William; and Clark, Norman R., to Fiberboard Corporation. Machine for folding carton blanks. 3,439,589, 4-22-69, Cl. 93-52.

Geisman, Jerome B.; and Randmae, Rein S., to Bohn Benton Inc., mesne. Single framing device for motion picture projectors. 3,466,124, 9-9-69, Cl. 352-169.

Geissel, August, to Gebruder Netzsch Maschinenfabrik. Machine for dispersing and comminuting flowable materials. 3,432,109, 3-11-69, Cl. 241-172.

Geisseler, Max. Centrifuging wheel. 3,444,651, 5-20-69, Cl. 51-9.

Geissler, Ambros; and Singer, Edwin, to Vogue Instrument Corporation, mesne. Buffer data storage system using a cyclical memory. 3,480,931, 11n25-69, Cl. 340-174.1
Geissler, Ernst, to Anker-Werke Aktiengesellschaft. Data obliterating circuit of data processing system. 3,482,216, 12-2-69, Cl. 340-172.5
Geist, Heinz: *See*—
Will, Walter; Geist, Heinz; and Krebs, Karlheinz,3,427,455.
Geist, Jean Jacques, to United States of America, Atomic Energy Commission, mesne. Neutronic reactor with natural circulation of fluid fuel. 3,486,977, 12-30-69, Cl. 176-51.
Geisthoff, Hubert; Welshof, Hans-Heinrich; and Grosse-Entrup, Hubert, to Walterscheid K.G., Firma. Wide-angle constant velocity universal joint. 3,470,712, 10-7-69, Cl. 64-21.
Geistlich, Ed., Sohne AG fur Chemische Industrie: *See*—
Jones, Geraint, 3,446,901.
Maisey, Roy Frederick, 3,422,203.
Pfirrmann, Rolf Wilhelm, 3,423,408.
Gejoff, James T., to Ford Motor Company. Means for assembling together a two-part housing. 3,429,603, 2-25-69, Cl. 292-80.
Gelardo, Ralph P.; and Reitlinger, Otto, to United States of America, Navy. Method of stabilizing nitric acid esters. 3,470,231, 9-30-69, Cl. 260-466.
Gelarie, Louis. Combined mouth retractor and saliva remover. 3,455,024, 7-15-69, Cl. 32-33.
Gelb, Edward J.: *See*—
Liccardi, Thomas V.; Steen, Stephen N.; and Gelb, Edward J.,3,483,949.
Gelb, John, 45% to Friedman, Allan, and 10% to Friedman, Marvin, mesne. Reversing drive mechanism. 3,463,020, 8-26-69, Cl. 74-202.
Gelb, John, 45% to Friedman, Allan, and 10% to Friedman, Marvin, mesne. Coaxial shaft reversing drive mechanism. 3,463,021, 8-26-69, Cl. 74-202.
Gelb, John, 45% to Friedman, Allan, and 10% to Friedman, Marvin. Electromagnetic actuated two speed drive mechanism. 3,463,027, 8-26-69, Cl. 74-365.
Gelbard, Robert B., to General Electric Company. Combination evaporator and radiant heater defrost means. 3,436,931, 4-8-69, Cl. 62-276.
Gelbard, Robert B.: *See*—
Kearl, Cyril M.; and Gelbard, Robert B.,3,474,640.
Gelenczei, Emil F.; and Lasher, Hiram N., to Sterling Drug, Inc. Avian pox virus vaccine and process of preparing same. 3,429,965, 2-25-69, Cl. 424-89.
Gelenkwellenbau GmbH: *See*—
Kleinschmidt, Hans Joachim, 3,439,965.
Gelernter, Samson C., to Bendix Corporation, The. Monitor and delay network comprising feedback amplifer, sample and hold circuit and threshold detector combination for error signal level detector. 3,454,787, 7-8-69, Cl. 307-235.
Gelfand, Ilya Markovich; Zavalischin, Nikolai Ivanovich; and Kulachenkov, Gennady Petrovic. Apparatus for automatic testing of wire strength during drawing. 3,447,364, 6-3-69, Cl. 73-95.5
Gelfand, Peter C., to Buell Engineering Company, Inc. Apparatus for controlling the removal of particle accumulations from the electrodes of an electric precipitator. 3,469,371, 9-30-69, Cl. 55-110.
Gelfand, Samuel, to Hooker Chemical Corporation. Polyhalocyclopentenyl arylation products. 3,450,768, 6-17-69, Cl. 260-590.
Gelfenbein, Evgeny Jukhimovich: *See*—
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich,3,480,074.
Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Kuznetsov, Leonid Georgievich; Niskovskikh, Vitaly Maximovich; and Rolnik, Savva Abramovich,3,480,075.
Gelfenbein, Evgeny Jukimovich: *See*—
Niskovskikh, Vitaly Maximovich; Kuruklis, Georgy Leonidovich; Gelfenbein, Evgeny Jukimovich; Tarlinsky, Isai Vulfovich; and Khorev, Viktor Nikolaevich,3,447,588.
Gelhaar, Bo E. O., to Perstorp Aktiebolag. Thermosetting composition comprising amino-formaldehyde resin with cellulosic filler containing a high % of beta and gamma cellulose. 3,484,396, 12-16-69, Cl. 260-17.3
Gelhar, Willy Otto: *See*—
Lefebvre, Palma Adrien; and Gelhar, Willy Otto,3,462,768.
Gelin, Robert J.; and Sprow, Teren K., to Owens-Corning Fiberglas Corporation. System for airless spraying of two liquids. 3,462,081, 8-19-69, Cl. 239-71.
Gelin, Robert, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Hydraulic gear-pumps and gear-motors. 3,481,275, 12-2-69, Cl. 103-126.
Gelinas, Ralph J., to Marine Swimming Pool Equipment Company. Pool cleaner embodying combination jet suction, self-undulating hose. 3,433,237, 3-18-69, Cl. 134-168.
Gell, Philip Anthony Maunsell; and Waterworth, Thomas Hugall, to Elemelt Limited. Furnaces for heating glass electrically. 3,440,321, 4-22-69, Cl. 13-6.
Gellatly, Robert K., to FMC Corporation. Liquid dispensing apparatus. 3,434,634, 3-25-69, Cl. 222-450.
Geller, Alan R., to International Business Machines Corporation. Apparatus for checking logical connective circuits. 3,459,927, 8-5-69, Cl. 235-153.
Geller, Alan R., to International Business Machines Corporation. Fast flush adder. 3,470,366, 9-30-69, Cl. 235-175.
Geller, Alan R., to International Business Machines Corporation. High speed multi-input adder. 3,476,923, 11-4-69, Cl. 235-175.
Geller, Myer: *See*—
Altman, Daniel E.; and Geller, Myer,3,470,493.
Geller, Myer; and Altman, Daniel E., to United States of America, Navy. Transmission line gas laser. 3,458,830, 7-29-69, Cl. 331-94.5
Geller, Rodger E., to General Motors Corporation. Freezing device with helical actuator. 3,476,350, 11-4-69, Cl. 249-71.
Geller, Seymour; and Nesbitt, Ethan A., to Bell Telephone Laboratories, Incorporated. Garnet compositions. 3,444,084, 5-13-69, Cl. 252-62.57
Geller, William, to General Telephone & Electronics, Laboratories, Incorporated. Horizontal deflection circuit. 3,434,003, 3-18-69, Cl. 315-27.
Geller, William; and Hillman, Kurt, to General Telephone & Electronics Laboratories, Incorporated. Horizontal deflection circuit. 3,423,631, 1-21-69, Cl. 315-27.
Geller, William; and Hillman, Kurt, to General Telephone & Electronics Laboratories, Incorporated. Horizontal deflection circuit. 3,466,496, 9-9-69, Cl. 315-27.
Gellert, Donald P., to Sunbird Industries, Inc. Beach shelter. 3,474,804, 10-28-69, Cl. 135-5.
Gelles, Rubin: *See*—
Rosin, Seymour; Gelles, Rubin; and Eichenthal, Judah,3,472,577.
Gelling, Homer R.: *See*—
Boys, Donald R.; Gelling, Homer R.; and Miller, John S.,3,445,584.
Gellrich, Manfred: *See*—
Sliwka, Wolfgang; and Gellrich, Manfred,3,470,125.
Gelofcsak, George: *See*—
O'Day, Arthur J.; and Ricker, Dennis J., 3,465,665.
Gelotte, Erik B.: *See*—
Emneus, Nils Ingvar Arne; Gelotte, Erik B.; Rehn, Nils G.; and Soderqvist, Bjorn G. F.,3,476,737.
Gelsenberg Benzin Aktiengesellschaft: *See*—
Hofmann, Paul; and Peterlein, Karl, 3,435,091.
Gelson, Edward William: *See*—
Bugg, Alfred Edward, 3,475,834.
Gelson, William E.: *See*—
Bugg, Alfred Edward, 3,463,002.
Gelting, Raymond L., to United Aircraft Corporation. Stacked fuel cells. 3,436,272, 4-1-69, Cl. 136-86.
Gelting, Raymond L.; Fiorentino, Anthony J.; and Rogers, Arthur C., to United Aircraft Corporation. Fuel cell module. 3,476,609, 11-4-69, Cl. 136-86.
Geluk, Hendrik Willem, to North American Philips Company, Inc. Method of producing adamantane-2-one. 3,433,837, 3-18-69, Cl. 260-586.
Gelzheiser, Francis L.; and De Angelo, Gerald J. Circuit breaker with improved conducting path and trip means. 3,480,900, 11-25-69, Cl. 337-75.
Gelzheiser, Francis L.; and Nystrom, Charles E., to Westinghouse Electric Corporation. Circuit breaker with means for facilitating adjustment thereof. 3,467,933, 9-16-69, Cl. 337-84.
Gem City Engineering Company, The: *See*—
Smith, Glenn D.; and Cook, Robert G., Sr., 3,426,216.
Gem Marketing Corporation: *See*—
Vartanian, Andrew; and Vartanian, Haig, 3,430,973.
Gem Oil Tool Company, Inc.: *See*—
Alexander, Granison T., Jr., 3,480,037.
Alexander, Granison T., Jr., 3,486,758.
Gemassmer, Alois M.; and Rawlings, Herbert L., to Mobay Chemical Company. Removal of high and low boiling solvents from polycarbonate solutions. 3,453,184, 7-1-69, Cl. 203-88.
Gembicki, Stanley: *See*—
Dunn, Lyman D.; and Gembicki, Stanley,3,473,580.
Gemco Electric Co.: *See*—
Cork, Gordon H., 3,474,204.
Gemeinhardt, Paul G.: *See*—
McGregor, William A., Jr.; Gemeinhardt, Paul G.; and Gurley, Jesse Fred,3,421,932.
Geminder, John J.; and Hetzel, Carl P., to Pfizer, Chas., & Co., Inc. Bread softeners and dough improvers. 3,464,829, 9-2-69, Cl. 99-91.
Gemmell, Douglas B., to Elliott Brothers (London) Limited. Multiple channel servo systems. 3,433,125, 3-18-69, Cl. 91-363.
Gemmell, Robert Ernest Matheson, to Molins Machine Company Limited. Manufacture of mouthpiece cigarettes. 3,452,758, 7-1-69, Cl. 131-94.
Gemmer, Alfred, to Hellige, Fritz, & Co. G.m.b.H. Instrument for electrically stimulating the activity of the heart. 3,460,542, 8-12-69, Cl. 128-421.

Gemmill, Wayne J., Sr.; King, Paul A.; and Molinski, Victor J., to Union Carbide Corporation. Production of a solution containing radioactive technetium. 3,436,354, 4-1-69, Cl. 252-301.1
Genahr, Rudolf, to Schneider, Jos., & Co. Episcopic scanning head having smaller optical fibers interleaved in interstices formed by contiguous larger fibers. 3,430,057, 2-25-69, Cl. 250-227.
Genahr, Rudolf, to Schneider, Jos., & Co., Optische Werke. Terminal assembly for light-conducting cable. 3,457,000, 7-22-69, Cl. 350-96.
Genahr, Rudolf; and Schwab, Erich, to Schneider, Jos., & Co. System for measuring angular displacement of shafts rotating at different speeds. 3,461,304, 8-12-69, Cl. 250-227.
Genas, Michailas; and Kern, Rene, to Societe Organico. Process for the preparation of cycloalkanone oximes and lactams in the presence of strong acids. 3,427,303, 2-11-69, Cl. 260-239.3
Genbauffe, Francis S.: *See—*
Branson, Charles D.; and Genbauffe, Francis S.,3,462,234.
Genbauffe, Francis S., to Robertshaw Controls Company. Ignition means for cooking apparatus and the like. 3,454,346, 7-8-69, Cl. 431-266.
Genbauffe, Francis S., to Robertshaw Controls Company. Clothes drier control system. 3,471,937, 10-14-69, Cl. 34-45.
Wolfe, Denis G.; Genbauffe, Francis S.; and Eicher, Gerald H.,3,469,779.
Genca, Samuel R.: *See—*
Tolliver, Peter M., 3,484,080.
Genchi, Rocco. Combination tool and case therefor. 3,473,712, 10-21-69, Cl. 224-2.
Gendelman, Lev Simkhovich: *See—*
Reifman, Mark Petrovich; Bondarev, Nikolai Nikolaevich; and Gendelman, Lev Simkhovich,3,457,483.
Gendrikov, Eduard Pavlovich; Enalev, Vsevolod Dmitrievich; and Samoilenko, Galina Vladimirovna. Method for separation of divinylbenzene isomers from hydrocarbon mixture. 3,445,535, 5-20-69, Cl. 260-669.
Gendron, Claude G.: *See—*
Buckman, Stanley J.; Kirchen, Charles P.; and Gendron, Claude G.,3,448,004.
Gendron, George J.; Garnjost, Kenneth D.; and Mastropole, Alfred J., to Raymond International, Inc., mesne. Driving systems. 3,452,830, 7-1-69, Cl. 175-55.
Gendron, Lester J.: *See—*
Oliver, Joseph E., 3,462,123.
General Alarm Corporation: *See—*
Colman, Robert, 3,466,649.
Hawkins, Paul Maddison, 3,427,413.
Hawkins, Paul Maddison, 3,444,546.
Hawkins, Paul Maddison, 3,464,243.
Hawkins, Paul Maddison, 3,471,188.
General American Transportation Corporation: *See—*
Aller, Edmund R.; and Solt, Paul E., 3,469,888.
Korodi, Miklos, 3,439,820.
Korodi, Miklos, 3,439,822.
Mowatt-Larssen, Erling, 3,458,238.
Smith, Arthur M., 3,486,643.
Szymski, Eugene J., 3,458,017.
Thompson, Joseph Charles; and Heisterberg, Milton W., 3,439,829.
General Aniline & Film Corporation: *See—*
Altavilla, Alex P., 3,421,896.
Beardsley, Albert L., 3,482,794.
Houser, Robert W., 3,476,940.
Levinos, Steven; and Bergfjord, John A., 3,440,047.
Stanley, Lester N.; and Armento, William H., 3,458,272.
See Also: GAF Corporation
General Applied Science Laboratories, Inc.: *See—*
Slutsky, Simon; and Tomboulian, Roger A., 3,442,115.
General Atronics Corporation: *See—*
Brenner, Millard M.; and Steinberg, Bernard D., 3,443,228.
Cicchiello, Frank N., 3,440,431.
Keidel, John F., 3,479,519.
General Aviation Electronics, Inc.: *See—*
Boelter, Donald A., 3,486,125.
General Bearing Company, Inc.: *See—*
Erb, George H.; Horenburger, William E.; Sanguinetti, Bradley E.; and Hayden, Edward F., 3,441,189.
Nosenzo, Mario, 3,478,382.
Sanguinetti, Bradley E., 3,454,314.
General Binding Corporation: *See—*
McLaughlin, John A., 3,421,966.
Staats, Henry N.; Vincent, Donald P.; and Winkelmann, John F., 3,427,914.
Staats, Henry N.; and Winkelmann, John F., 3,433,688.
Staats, Henry N., 3,475,775.
Staats, Henry N.; Levitan Maurice D.; and Morrissey, Neal J., 3,483,067.
General Box Company: *See—*
Wait, Hershey L., 3,459,321.
General Cable Corporation: *See—*
Barb, Earl C., 3,445,581.
Eager, George S., Jr.; and Bader, George, 3,430,137.
Eager, George S., Jr.; and Szilard, Julius A., 3,459,871.
Garner, Oscar G., 3,430,330.
Garner, Oscar G., 3,441,660.
Garner, Oscar G., 3,446,883.
Garner, Oscar G., 3,480,724.
Masterson, Joseph B., 3,427,393.
Menne, Eugene C., 3,474,517.
Polizzano, Fred F., 3,485,689.
General Cigar Co., Inc.: *See—*
Dreher, Hans C., 3,468,315.
Wallace, Bert H., 3,467,108.
General Co., Ltd.: *See—*
Fukawa, Kaneo, 3,442,682.
General Communications Products, Inc.: *See—*
Bradfield, William S., 3,420,381.
General Connectors Corporation: *See—*
Hale, Jesse R. W., 3,443,828.
General Corporation, The: *See—*
Nakazawa, Keito, 3,436,469.
Sugihara, Yasumasa, 3,484,545.
General Corrugated Machinery Co., Inc.: *See—*
Miller, Joseph A.; and Kruglinski, Frank A., 3,422,969.
General Descaling Company Limited: *See—*
Hunter, Keith Ellis, 3,429,476.
General Dynamics Corporation: *See—*
Ambulos, Charles P.; Romboni, Albert H.; and Willard, Bernard S., Jr., 3,445,800.
Andzer, Arnold L., 3,432,760.
Atkins, Robert E., 3,483,512.
Avondoglio, Leo, 3,469,633.
Barnikel, Peter J., 3,444,713.
Bouyoucos, John V., 3,472,199.
Bowers, John O., Jr., 3,443,122.
Childree, Herman T., 3,463,601.
Churchill, Robert C., 3,485,465.
Colburn, Steven C.; Hallse, Robert L.; Matsuda, Hisashi; and Mayhall, Joel O., 3,481,010.
Colechia, Raymond L., 3,449,008.
Colechia, Raymond L.; and Malcolm, Vincent T., Jr., 3,451,224.
Coleman, Charles H.; and Torrance, James H., 3,448,600.
Cosgrove, Donald G.; Erwin, Le Roy E.; and Bielss, Eldon W., 3,469,183.
Cote, Louis E., 3,428,881.
Daley, Timothy Joseph, 3,461,388.
De Haas, Thijs; Gray, Martin B.; and Welsh, Joseph P., 3,447,085.
de Haas, Thijs, 3,485,949.
Dershin, Harvey; and Leonard, Charles A., 3,452,553.
Donaldson, John D., 3,434,281.
Dugan, William P., 3,426,427.
Dugan, William P.; and Freehauf, Eugene G., 3,429,037.
Dugan, William P.; and Freehauf, Eugene G., 3,429,038.
Egli, Walter, 3,421,575.
Fetner, Martin J., 3,427,836.
Franklin, Richard N., 3,435,377.
Freedman, Bernard J.; Georgetti, Richard A.; and Tedeschi, William R., 3,420,760.
Freedman, Robert P.; and Ketcham, George M., 3,436,943.
Freedman, Robert P.; and Fetner, Martin J., 3,456,715.
Freehauf, Eugene G., 3,421,369.
Freehauf, Eugene G.; and Dugan, William P., 3,429,036.
Freehauf, Eugene G.; and Dugan, William P., 3,431,641.
Gastineau, Lloyd, 3,422,416.
Goforth, John L.; and Flanders, Andrew E., 3,430,028.
Gratian, Joseph W., 3,478,331.
Gratian, Joseph W., 3,482,219.
Gray, Martin B.; de Haas, Thijs; and Perkett, Charles E., 3,445,593.
Gulino, Rosario; and Hall, Kenneth H., 3,463,015.
Halstead, Jesse J., 3,463,873.
Harris, Leslie M., Jr., 3,456,259.
Heath, Paul D., 3,451,015.
Hollands, Daniel H., 3,462,736.
Hotine, William, 3,435,222.
Hsu, Howard L.; and Du Fresne, Eugene R., 3,423,345.
Kaarlela, William T., 3,421,202.
Key, Rupert E., 3,431,102.
Kubik, James R., 3,429,786.
Kubik, James R., 3,462,832.
Kuecken, John A., 3,438,042.
Lehmann, Guenther W.; and Adams, Alden W., Jr., 3,448,712.
Malan, Howard J., 3,450,898.
Mantle, Peter J.; and Hall, Arnold M., 3,476,069.
Mantle, Peter J., 3,481,297.
Mc Cowen, Harvey H., 3,462,693.
Mc Keown, Daniel, 3,486,023.
McCowen, Harvey H.; and Harris, Halbert M., Jr., 3,474,429.
Morgan, John M., Jr., 3,482,035.
Morrison, Robert F., Jr., 3,471,787.
Mullion, John J., 3,449,001.

Osborne, William E., 3,480,775.
Piper, Thomas E.; and Pratt, Wilson N., 3,464,252.
Pratt, Wilson N.; and Freehauf, Eugene G., 3,420,085.
Qualls, Harold W., 3,453,960.
Roth, Albert, 3,445,685.
Rubega, Robert A.; and Cary, Boyd B., 3,444,509.
Schenstrom, Frank M., 3,445,765.
Schroeder, Paul M., Jr., 3,432,125.
Schwerdhofer, Hans Joachim, 3,438,283.
Seichter, Kenneth R.; and Donaher, Thomas P., 3,456,244.
Selsam, Roger L.; and Utterback, Max G., 3,461,910.
Shapiro, Harris, 3,445,701.
Sheets, Herman E.; and Brancart, Claude P., 3,433,163.
Shores, Marvin W., 3,487,413.
Simoneau, George R., 3,422,418.
Slaymaker, Frank H., 3,482,101.
Sonkin, Ronald M., 3,445,782.
Suit, Paul E., 3,429,288.
Turco, Joseph Francis; and Marriott, Jean A., 3,420,881.
Vannatter, Robert L., 3,441,694.
Vollmer, George R., Jr., 3,454,762.
Walker, Watson F.; and de Haas, Thijs, 3,430,143.
Walker, Watson F.; de Haas, Thijs; and Gray, Martin B., 3,456,194.
White, Robert F.; and Wright, Roger M., 3,427,051.
Wilson, Robert O., 3,462,041.
Winkler, David W., Jr., 3,477,609.
Wise, Boyd A., 3,450,217.
Zavitz, Arnold L., 3,432,423.

General Electric and English Electric Companies Limited, The: *See*—

Easter, Brian, 3,484,711.

General Electric Company: *See*—

Abbott, Harold W.; and Klisz, Adam E., 3,486,076.
Abbott, Roy W.; and Mullings, Donald M., 3,437,318.
Adams, Max M., 3,425,277.
Addamiano, Arrigo, 3,470,107.
Adem, Abdulahat, 3,456,131.
Adem, Abdulahat, 3,463,936.
Adrien, Richard N.; and Duggan, Lee E., 3,462,091.
Airola, Ellis John, 3,460,955.
Airola, Ellis John, 3,479,268.
Akers, Alvin, 3,466,902.
Alai, John A., 3,433,435.
Albers, George F., 3,442,010.
Albers, George F., 3,442,641.
Albinger, Harry, Jr., 3,432,696.
Albinger, Harry, Jr.; and Marble, Chester B., 3,432,697.
Albinger, Harry, Jr., 3,432,699.
Albinger, Harry, Jr., 3,454,799.
Albinger, Harry, Jr.; and Petrides, Christie, 3,461,663.
Albright, Donald R.; Shartrand, Allan C.; and Otteson, Albert J., 3,441,758.
Alden, Thomas H.; and Livingston, James D., 3,448,062.
Aldrich, Richard W.; and Holonyak, Nick, Jr., 3,476,993.
Allen, Benjamin F., 3,445,726.
Allen, Malcolm H., Jr., 3,473,381.
Allen, Merton, 3,445,568.
Allen, Merton; and Deiber, Jack, 3,458,417.
Alley, Robert P., 3,467,886.
Alter, Henry W., 3,486,027.
Alter, Henry Ward, 3,457,408.
Alvarez, Robert J., 3,422,994.
Alvarez, Robert J.; and Jacobus, Dwight W., 3,437,244.
Anderson, Harry C., 3,440,528.
Anderson, John M., 3,483,394.
Anderson, Jon E., 3,459,942.
Anderson, Richard E., 3,444,988.
Anolick, Eugene S.; and Monteleone, Joseph J., 3,453,141.
Aranyi, Steven F.; Barlow, Jesse P.; Rakocz, Laszlo L.; and Torfeh, Mark A., 3,440,616.
Armstrong, Frederick J.; and Susdorf, Robert A., 3,465,184.
Arndt, Richard H., 3,443,158.
Arndt, Richard H.; and Craig, Allen G., 3,466,593.
Arndt, Richard H.; and Kotski, Edward J., 3,471,784.
Ashby, Bruce A., 3,448,072.
Ashby, Bruce A., 3,471,440.
Ashley, Robert B., 3,430,099.
Auxier, Thomas A., 3,475,107.
Avery, Howard W., 3,484,968.
Ayres, Reginald J., 3,475,641.
Bach, Werner, 3,465,272.
Bacon, William D., Jr.; and Kilpatrick, Robert G., 3,431,003.
Badey, Paul E.; Oppel, John A.; and Tognella, Ugo R., 3,482,069.
Baertsch, Richard D., 3,448,351.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A., 3,425,039.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A., 3,454,931.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A., 3,454,932.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W., 3,454,933.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A., 3,454,934.
Bahrs, David L.; and Couleur, John F., 3,479,649.
Bahrs, David L.; Couleur, John F.; Ruth, Richard L.; and Shelly, William A., 3,483,525.
Bailey, Francis M., 3,457,495.
Bailey, Francis M.; and Cronquist, William E., 3,484,687.
Baird, Leslie L., 3,430,018.
Baird, Leslie L.; and Baskerville, Ralph J., 3,433,915.
Baird, Leslie L., 3,440,378.
Balchunas, Charles A., 3,448,227.
Baldwin, George C., 3,435,207.
Baldwin, George C., 3,482,091.
Baldwin, William E., 3,433,970.
Balo, Harold A., 3,426,322.
Barkan, Philip, 3,435,166.
Barkan, Philip, 3,471,666.
Barkan, Philip, 3,471,667.
Barker, James F., 3,467,516.
Barlow, J. P.; and Rakoczi, Laszlo L., 3,473,158.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B., 3,444,525.
Barlow, Jesse P.; Jones, Charles R.; and Kerr, James L., 3,467,948.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B., 3,487,373.
Barnes, James L., 3,485,962.
Barr, James R., 3,467,800.
Barr, Samuel Rothrock, 3,451,215.
Barrett, John R.; Bray, Thomas E.; and Claflin, Gerald E., 3,486,029.
Barton, Richard; Hittel, Lorenz A.; Rakoczi, Laszlo L.; and Wiener, Jerome B., 3,469,241.
Bauer, Douglas M., 3,484,668.
Bean, Charles P., 3,424,953.
Bean, Charles P., 3,483,095.
Bean, Fredrick D., 3,479,009.
Beaumont, David H.; and Friedman, Arnold I., 3,424,605.
Bebinger, Jack E., 3,423,659.
Becker, Hans-Dieter, 3,432,412.
Becker, Joseph J., 3,463,678.
Becker, Joseph J., 3,464,003.
Beddows, Norman A., 3,471,780.
Bedford, Burnice D., 3,434,030.
Bedford, Burnice D.; and Turnbull, Fred G., 3,480,797.
Bedford, Burnice D., 3,483,462.
Beers, Melvin D., 3,438,930.
Beitler, Richard S.; Corley, Ralph C.; and Kast, Howard B., 3,456,881.
Bell, Christy W., 3,462,646.
Bellamy, Winthrop D., 3,462,275.
Bellinger, James E.; and Marshall, Robert F., 3,444,556.
Belt, John E.; Hittel, Lorenz A.; and Rakoczi, Laszlo L., 3,480,916.
Berg, Robert L., 3,456,222.
Berger, Abe, 3,424,656.
Berger, Abe, 3,439,008.
Berger, Abe, 3,465,019.
Berger, Abe, 3,483,241.
Bernd, Leslie H., 3,455,265.
Bernd, Leslie H., 3,483,132.
Berry, Allan David, 3,428,826.
Beswick, Vernon L., 3,430,088.
Betz, Jack D.; and Guy, Glen E., 3,439,329.
Bigelow, John E., 3,466,651.
Birdsall, Charles K.; and White, Richard M., 3,427,573.
Bissett, Alexander F., 3,432,708.
Black, Frank S.; and Haselton, Thomas P., 3,463,674.
Blackburn, Richard D., 3,427,469.
Blank, John M.; and Potter, Ralph M., 3,458,779.
Blewitt, George W., Jr., 3,440,373.
Bluestein, Ben A., 3,435,000.
Bluestein, Ben A., 3,448,076.
Bluestein, Ben A., 3,464,955.
Bochan, John, 3,448,596.
Bochan, John; and Pottinger, Eugene A., 3,481,163.
Bochan, John, 3,481,164.
Boennighausen, Richard A.; and Burch, Byron F., Jr., 3,487,368.
Boice, William K., 3,458,791.
Boldebuck, Edith M.; and Holub, Fred F., 3,440,196.
Boldebuck, Edith M.; and Holub, Fred F., 3,440,197.

Boldebuck, Edith M.; and Gaertner, Richard F., 3,440,202.
Boldebuck, Edith M.; and Sonnenberg, Joseph, 3,440,203.
Bondley, Ralph J., 3,434,812.
Boothe, Willis A., 3,441,996.
Boothe, Willis A., 3,442,280.
Boothe, Willis A.; Ringwall, Carl G.; and Kelley, Lonny R., 3,461,892.
Boothe, Willis A., 3,485,253.
Boothe, Willis Anson, 3,451,410.
Borel, Ronald F., 3,433,016.
Boring, Kenneth L.; and Downing, Robert D., 3,479,483.
Borman, Willem, 3,431,238.
Bostick, Edgar E., 3,479,320.
Bostick, Edgar E., 3,483,270.
Boswell, James M., Jr.; Fitzmayer, Louis H.; and Prucha, Richard V., 3,439,144.
Boudreau, Robert J., 3,483,240.
Bovenkerk, Harold P., 3,423,177.
Bower, Arnold B., Jr., 3,434,552.
Bower, Arnold B., Jr., 3,434,554.
Bower, Arnold B., Jr., 3,476,438.
Bowers, David L., 3,426,748.
Boyd, Wilton E., 3,460,188.
Boyles, Robert L., 3,475,899.
Brand, Walter A., Jr., 3,436,656.
Brandon, Ronald E.; and Holman, Russell J., 3,429,557.
Bray, Thomas E.; and Clusick, Robert E., 3,479,517.
Brennan, Robert H., 3,423,668.
Brennan, Thomas E.; and Ward, Howard C., Jr., 3,436,580.
Bristol, David A., 3,475,602.
Broderick, William J.; Frasier, Carlton R.; Hittel, Lorenz A.; Hope, George R., Jr.; Porcelli, Ernest J.; and Rakoczi, Laszlo L., 3,483,520.
Brookes, William R., 3,438,939.
Brookmire, James L., 3,465,237.
Brouillette, Joseph W., Jr.; and Noble, Milton L., 3,465,137.
Broverman, Howard L., 3,471,759.
Brown, Dale M., 3,462,657.
Brown, Dale M., 3,481,796.
Brown, Edgar D., Jr., 3,441,585.
Brown, Edgar D., Jr., 3,479,290.
Brustle, Heinz H.; and Fisher, Franklin A., 3,430,136.
Buchhold, Theodor A.; Nesbitt, Loyd B.; and Schoch, Karl F., 3,429,368.
Buchhold, Theodor A., 3,461,218.
Buckland, Bruce O., 3,443,790.
Buford, Charles G.; and Buford, Wesley E., 3,447,281.
Buice, Joel B.; and Cannon, Henry T., Jr., 3,475,659.
Bunn, George B., 3,487,269.
Bunner, James E.; and Griffis, Daniel L., 3,466,480.
Burge, Joseph C.; and Follmer, Richard W., 3,458,118.
Burgess, James F.; and Sewell, Gordon J., 3,485,630.
Burke, Hubert K.; and Michon, Gerald J., 3,444,454.
Burke, Hubert K.; and Michon, Gerald J., 3,450,943.
Burke, Hubert K., 3,450,944.
Burton, Lester W., 3,474,436.
Byrnes, Joseph E.; and Moffatt, William G., 3,424,130.
Caggiano, Gerard J.; and Wells, Robert C., 3,426,980.
Cain, Dallas E., 3,452,840.
Cairns, Elton J., 3,432,358.
Cammer, Bobby E.; and Venning, Selby G., 3,470,467.
Campbell, John H.; and Kershaw, Delmar D., 3,448,318.
Campbell, Kenneth K., Jr.; and Meyer, Heinrich F., 3,484,937.
Campbell, Rex C.; and McDowell, Earle B., 3,428,877.
Canfield, Eugene B., 3,479,886.
Cantrill, James E., 3,461,187.
Cantrill, James E., 3,462,515.
Carbary, Richard J.; and Harder, Arthur J., 3,440,308.
Cardwell, John G., Jr., 3,441,772.
Cardwell, John G., Jr., 3,441,776.
Cardwell, John G., Jr., 3,445,713.
Carl, William L., 3,424,933.
Carlson, Gerald J., 3,486,378.
Carlson, Robert G., 3,419,952.
Carlson, Robert Gustav, 3,471,270.
Carnavos, Theodore C., 3,443,633.
Carnavos, Theodore C., 3,481,835.
Carreker, Roland P., Jr., 3,466,186.
Carreker, Roland P., Jr., 3,484,280.
Carroll, James J.; and Frind, Gerhard, 3,452,174.
Carson, Chester C.; Gibbs, Edward E.; and Grobel, Lloyd P., 3,428,838.
Carson, William N., 3,422,337.
Carter, Ralph E., 3,429,832.
Casey, Robert T., 3,425,007.
Castiglione, Paul V., 3,436,643.
Caulier, Paul W.; and McDowell, Earle B., 3,436,608.
Cavagnaro, William A., 3,438,637.
Chamberlain, Billy S.; Shinn, Byron J.; and Sunderland, Luther D., 3,420,993.
Chandler, Edgar F., 3,474,320.
Chandler, Robert F., Jr., 3,486,009.
Chang, Winston H., 3,434,829.
Chang, Winston H., 3,447,921.
Chang, Winston H., 3,458,366.
Charbonneau, Albert J., 3,444,497.
Chernoch, Joseph P.; and Koenig, Harold R., 3,423,691.
Chernoch, Joseph P.; and Koenig, Harold R., 3,423,693.
Chernoch, Joseph P., 3,423,696.
Chernoch, Joseph P., 3,423,697.
Chernoch, Joseph P., 3,466,569.
Chernoch, Joseph P., 3,482,186.
Chipman, George P., 3,466,360.
Christianson, Clinton C., 3,432,356.
Church, Ralph E.; and Lindt, Stanley L., 3,465,182.
Clark, Albert A.; Craig, Allen G.; and Wilbur, Benjamin, 3,456,511.
Clark, Joseph H., Jr., 3,419,915.
Clark, Robert C.; and Jones, Jerry M., 3,441,739.
Clark, Thomas J.; and Ettinger, Bruce L., 3,462,522.
Clements, Francis J., 3,477,747.
Cleveland, Donald S., 3,479,562.
Cline, Harvey E., 3,429,697.
Cobine, James D., 3,450,928.
Cockrell, William D., 3,424,911.
Cohen, Robert; Couleur, John F.; and Ruth, Richard L., 3,479,647.
Cohen, Robert; Couleur, John F.; and Shelly, William A., 3,482,264.
Cohen, Robert; Shelly, William A.; and Vidulich, Samuel M., 3,482,265.
Cole, Charles N., 3,466,526.
Colter, Gene J., 3,426,262.
Colyer, Duard B.; and Fleming, Robert B., 3,477,504.
Conley, James W., 3,465,417.
Cook, Newell C., 3,466,270.
Cook, Newell C., 3,479,158.
Cook, Newell C., 3,479,159.
Cooper, David, 3,457,487.
Cooper, David, 3,466,524.
Coppa, Anthony P., 3,467,042.
Corey, Philip D., 3,448,367.
Cormia, Robert L., 3,458,342.
Corrigan, Charles E., 3,423,070.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., 3,471,834.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., 3,473,154.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., 3,473,155.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., 3,473,156.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., 3,478,320.
Couleur, John F.; and Ruth, Richard L., 3,478,324.
Couleur, John F., 3,483,526.
Cox, Eugene B., 3,450,968.
Cox, Vernon L.; and Titus, Charles H., 3,471,632.
Craft, Donald I., 3,422,669.
Cree, Robert F., 3,430,417.
Crockett, Richard J.; and Sedlack, George, Jr., 3,453,539.
Crouch, Donald W.; and Crowell, Robert, 3,430,015.
Crouch, Donald W.; and Kurtz, Donald R., 3,469,049.
Csicsatka, Antal, 3,435,144.
Culbertson, Richard; and Ostresh, Harvey Richard, 3,476,392.
Cunningham, Eldon R., 3,433,908.
Curtis, Truman P., 3,454,825.
Cushing, Donald S.; and Jenkins, Thomas E., 3,434,671.
Cushing, Donald S., 3,439,687.
Cushing, Donald S., 3,451,400.
D'Adamo, Joseph B., 3,446,546.
D'Entremont, Franklin R., 3,457,360.
D'Entremont, Franklin R., 3,480,229.
Daniels, Herbert E.; and Graves, Donald E., 3,428,809.
Danielson, Gordon H., 3,439,283.
Dankese, Joseph P., 3,432,357.
Darrow, Kenneth A., 3,481,825.
Datta, Ranajit K., 3,475,342.
Davis, Calvin M., 3,428,870.
Davis, Louis K., 3,423,613.
De Puy, Robert P., 3,452,265.
De Wolf, Frank T., 3,436,577.
Dehn, Rudolph A., 3,484,861.
Demarest, Donald M., 3,487,287.
DeMott, Alfred E.; and Miller, Ronald E., 3,439,417.
DePuy, Robert P., 3,466,743.
Derby, William G.; and Nowell, John R., 3,443,070.
Derbyshire, Charles E.; and Andersen, Frank T., 3,436,707.
Derbyshire, Charles E.; Mees, Robert D.; and Mittermaier, Armin F., 3,467,929.
Detro, Richard Gray, 3,479,442.
Dewey, Clyde G., 3,423,664.

Di Paola, Joel F., 3,458,556.
Dibelius, Norman R.; and Dounoucos, Angelo, 3,457,918.
Dickey, Frank R., Jr., 3,438,030.
Diefendorf, Russell J., 3,429,020.
Diefendorf, Russell J., 3,432,330.
Diefendorf, Russell J., 3,458,341.
Diehl, Elmer Paul; and Riley, John E., 3,450,999.
Dills, Raymond L., 3,425,405.
Dills, Raymond L., 3,440,401.
Dinger, Edward H.; and McNair, Willie L., 3,422,332.
Dinger, Edward H., 3,441,825.
Dinger, Edward H., 3,453,524.
Dinger, Edward H., 3,454,867.
Dinger, Edward H., 3,471,716.
Dochterman, Richard W., 3,420,335.
Dochterman, Richard W., 3,457,445.
Dochterman, Richard W., 3,482,127.
Dodge, Gerald F., III, 3,465,535.
Dodge, Gerald F., III, 3,474,638.
Dodson, Bruce Douglas; and Stoops, Lambert Perry, 3,447,560.
Dolan, Calvin M., 3,437,287.
Donahoo, Joe T., 3,439,244.
Dounoucos, Angelo, 3,447,286.
Dow, Norris F., 3,446,251.
Downing, Robert D., 3,463,900.
Downing, Robert D., 3,466,420.
Draper, Cosby A., Jr.; and Gallion, Walter L., 3,428,755.
Drexler, Karl F., 3,479,543.
Durham, Carl T., Jr., 3,465,069.
Durkee, Fank P., 3,441,512.
Durkee, Frank P., 3,484,382.
Durward, Lloyd S., Jr.; Giger, Walter, Jr.; and Krause, Werner A., 3,427,396.
Dutton, John C., 3,467,931.
Dwyer, Peter W., 3,458,011.
Earle, Roger T., Jr.; and Sumey, Ivan E., 3,433,020.
Eckerle, William A., 3,461,906.
Edwards, Russell N., 3,436,582.
Edwards, William J., 3,420,519.
Ehner, William J.; and Losert, Gerhard K., 3,431,720.
Ehner, William J., 3,484,769.
Ehrich, Fredric Franklin, 3,437,173.
Ehrich, Fredric Franklin, 3,485,043.
Eichelberger, Charles D., 3,461,348.
Eisberg, William Laurel, Jr.; and Hill, Carl Eugene, 3,467,592.
Elliott, Allen W., Jr., 3,466,900.
Elliott, James Franklin; Korzekwa, Samuel M.; and McArthur, Raymond J., 3,425,263.
Elliott, James Franklin; Korzekwa, Samuel M.; and Granberg, Helge O., 3,453,862.
Engebretsen, Einar O., 3,479,845.
Engeler, William E., 3,462,605.
English, James F., 3,431,448.
English, James F., 3,453,476.
Englund, Arvid E., Jr., 3,453,395.
Erickson, Clifford E., 3,436,166.
Erickson, Clifford E., 3,477,798.
Erwin, John R., 3,460,748.
Erwin, John R., 3,465,518.
Ettinger, Bruce L., 3,457,042.
Farouche, Philip, 3,432,882.
Farrell, Robert P., Jr., 3,478,596.
Feiertag, Orrin G., 3,473,024.
Fenner, Gunther E., 3,436,679.
Fenner, Gunther E., 3,458,345.
Fenner, Gunther E., 3,478,280.
Fenner, Gunther E., 3,482,189.
Fenner, Gunther E., 3,483,529.
Fenner, Gunther E., 3,484,713.
Fenner, Gunther E., 3,484,716.
Fey, Robert M.; and Williams, Thomas W., 3,459,011.
Fey, Robert M., 3,480,124.
Figueroa, John W.; Porcelli, Ernest J.; and Rakoczi, Laszlo L., 3,475,730.
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J., 3,475,731.
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J., 3,483,522.
Finkbeiner, Herman L.; and Klebe, Johann F., 3,432,488.
Finkbeiner, Herman L.; and Klebe, Johann F., 3,436,415.
Fischer, Lee J.; Becker, Edward R.; Kutney, John T., and; and McHugh, Donald P., 3,442,471.
Fiske, Milan D., 3,458,735.
Fleming, Karl J., 3,450,025.
Fleming, Robert B., 3,433,299.
Florentine, Frank P., Jr., 3,439,047.
Flowers, Ralph G.; and Winter, Charles A., 3,442,834.
Flowers, Ralph G.; and Sherer, Thomas L., 3,468,852.
Foldes, Stephen; and Levinstein, Moses A., 3,420,689.
Foldes, Stephen, 3,434,811.
Foldes, Stephen, 3,441,391.
Fong, Kouan, 3,462,551.
Fong, Kouan, 3,484,693.
Fortenbach, John H.; Hollowood, Hugh B.; and Mazanek, Henry E., 3,435,517.
Fortnam, George A., 3,461,859.
Fowler, Glen P., 3,440,405.
Fox, Daniel W., 3,485,607.
Frank, Robert G.; and Semmel, John W., Jr., 3,433,631.
Frasier, Carlton R.; Hittel, Lorenz A.; Hudson, James R.; Rakoczi, Laszlo L.; Sansbury, David L.; and Wiener, Jerome B., 3,483,521.
Freeman, Arthur H.; and Forman, Hugh M., 3,443,136.
Freid, Wilbert Bernard; Duffy, Robert Joseph; and Sargisson, Donald Farley, 3,465,950.
French, Raymond J., 3,426,944.
Fridrich, Elmer G., 3,462,209.
Frischmann, Peter G., 3,434,349.
Fthenakis, Emanuel, 3,472,468.
Fuerst, Peter E., 3,445,327.
Furman, Sydney C., 3,438,504.
Fussell, Lynn E.; and Ogburn, Robert D., 3,459,921.
Gallagher, Charles J., 3,450,922.
Gareis, Ronald E., 3,426,349.
Garfinkel, Marvin; and Weininger, Joseph L., 3,429,831.
Garfinkel, Marvin, 3,451,030.
Garwacki, Walter, 3,479,573.
Gatti, Arno; and Laskow, William, 3,457,033.
Gatti, Arno, 3,476,613.
Gatti, Arno, 3,486,849.
Gaynor, Joseph; Sewell, Gordon J.; and Metlay, Max, 3,434,835.
Gaynor, Joseph, 3,450,831.
Gaynor, Joseph, 3,458,309.
Gelbard, Robert B., 3,436,931.
Gerhard, Glen C.; and Ing, Smuel W., 3,436,613.
Gessner, Robert L., 3,477,636.
Geyer, Howard M., 3,442,176.
Giaever, Ivar, 3,448,301.
Gibbs, Edward E.; Coggeshall, Almy D.; and Shirk, Harold R., 3,437,859.
Gibbs, Richard D.; and Rushing, Raymond G., 3,421,209.
Gibson, Edwin G., Sr., 3,435,479.
Gibson, Van R., Jr., 3,435,133.
Giegerich, Bertrand V., 3,471,816.
Giegerich, Bertrand V., 3,480,898.
Gielisse, Peter J.; and Doser, Manfred, 3,435,398.
Gielisse, Peter J.; and Doser, Manfred, 3,435,399.
Gifford, Sheldon R., 3,464,371.
Giger, Walter, Jr.; and Johnston, Frank C., 3,439,309.
Giles, Walter B., 3,455,266.
Gittinger, Norman C., 3,459,937.
Gittinger, Norman C., 3,476,932.
Giudici, Livio L., 3,424,606.
Glenn, William E., Jr., 3,462,214.
Glenn, William E., Jr., 3,482,913.
Gluntz, Douglas M., 3,445,335.
Goldberg, Leon J., 3,423,598.
Goldberg, Leon J., 3,466,503.
Goldblum, Kenneth B., 3,431,224.
Good, William E.; and True, Thomas T., 3,437,746.
Good, William E.; Graser, Michael, Jr.; and Vanderlaan, Henry J., 3,450,462.
Goodale, Edmund E., 3,439,106.
Goodridge, Lawrence C., 3,480,344.
Goodridge, Lawrence C., 3,485,936.
Goodwin, Arthur F., 3,456,554.
Goossens, John C., 3,462,386.
Gordon, William D.; and Warburton, Joe A., 3,441,893.
Gordon, William D.; and Norman, Robert S., 3,451,861.
Goshorn, Larry A.; and Harmon, Sherril A., 3,430,209.
Goshorn, Larry A.; and Harmon, Sherril A., 3,439,347.
Goshorn, Larry A.; Harmon, Sherril A.; and Erickson, Robert G., 3,470,537.
Goshorn, Larry A.; and Harmon , Sherril A., 3,473,161.
Goshorn, Larry A.; and Harmon, Sherril A., 3,487,370.
Gottschalk, Klaus; and Wilson, John, 3,419,947.
Gough, Alfred B., 3,480,772.
Gowan, Alastair C., 3,472,810.
Grady, Raymond F., Jr., 3,452,597.
Graf, Carlton E., 3,487,236.
Graf, Russell H., 3,470,552.
Graf, Walter A., Jr., 3,436,544.
Graff, William A., 3,441,422.
Grafham, Denis R., 3,466,529.
Grafham, Denis R., 3,484,626.
Granan, John R.; and Kumpitsch, Robert C., 3,485,140.
Graser, Michael, Jr.; and True, Thomas T., 3,429,996.
Graves, James Arthur, 3,475,072.
Gray, Floyd L., 3,452,196.
Gray, Floyd L., 3,456,114.
Gray, Peter V., 3,479,234.

Gray, Russell A., 3,441,040.
Gray, Willard F. M.; and Nichols, Frank S., 3,427,578.
Green, David H., 3,435,272.
Green, James, Jr.; and Hauenstein, Max C., 3,476,331.
Green, Robert, 3,455,007.
Greenwood, Allan N., 3,435,288.
Greenwood, Allan N., 3,476,978.
Greer, David L., 3,422,277.
Gresens, Robert I.; and Sackmary, Stephen M., 3,443,795.
Grindle, Baline D.; and Schmid, Hermann, 3,456,099.
Grobel, Lloyd P.; and Carson, Chester C., 3,427,880.
Grossoehme, Floyd, 3,452,268.
Grout, John Stephen, 3,421,117.
Grout, John Stephen, 3,487,341.
Groves, James N., 3,445,321.
Guilbault, Lawrence J., 3,485,789.
Gulick, William K., 3,465,787.
Guth, Lauren W., 3,446,155.
Guth, Lauren W., 3,465,762.
Guth, Lauren W., 3,466,105.
Guth, Lauren W., 3,466,108.
Gutzwiller, Frank W., 3,437,911.
Gutzwiller, Frank W., 3,463,970.
Gvozdjak, John, 3,458,686.
Hagan, Ralph S.; and Hartlage, Francis J., 3,470,277.
Hall, James A.; and Peppiatt, Harry J., 3,454,895.
Hall, Robert N.; and Tiemann, Jerome J., 3,457,631.
Hall, Theodore W., 3,469,188.
Hall, Walter L., 3,479,409.
Hallay, Alexander R., 3,476,977.
Ham, Donald M., 3,423,019.
Ham, Donald M.; and Taft, William E., 3,434,659.
Ham, Donald M.; and Taylor, Clifton E., 3,443,042.
Hamilton, Douglas J., 3,484,758.
Hamilton, James, 3,431,388.
Hamilton, Stephen B., Jr., 3,446,856.
Hamilton, Stephen B., Jr., 3,479,410.
Hamlen, Robert P.; Nilson, Ronald R.; and Girard, Roland T., 3,481,788.
Hammer, Edward E., 3,453,470.
Hanchett, Leland J., Jr., 3,466,451.
Hanneman, Rodney E.; Jorgensen, Paul J.; and Speros, Dimitrios M., 3,453,477.
Hanson, Richard J., 3,486,051.
Harding, George D.; and Storm, Howard L., 3,475,651.
Hardy, Albert L., 3,423,138.
Hardy, Albert L., 3,447,752.
Harm, Robert L., 3,453,086.
Harmon, Donald K., 3,468,319.
Harnden, John D., Jr., 3,459,943.
Harris, Lawrence A., 3,458,115.
Harris, Lawrence A.; and De Tommasi, Arthur N., 3,459,873.
Harris, Samuel C., Jr., 3,445,763.
Harrod, John F., 3,434,873.
Hart, Howard R., Jr., 3,466,504.
Harvey, Luke M., 3,436,575.
Harvey, Luke M., 3,453,467.
Havn, Svend E.; and Namordi, Mooshi R., 3,435,277.
Havn, Svend E., 3,435,280.
Havn, Svend E.; and Namordi, Mooshi R., 3,445,716.
Havn, Svend E., 3,461,333.
Hay, Allan S., 3,432,466.
Hay, Allan S., 3,432,469.
Hay, Allan S., 3,442,858.
Hay, Allan S., 3,481,990.
Heft, Eldon B., 3,448,231.
Heft, Eldon B., 3,483,343.
Heidtmann, Donald S., 3,439,431.
Heidtmann, Donald S., 3,483,719.
Helberg, Henry J.; and Proxmire, Harry J., 3,480,897.
Helfrich, Robert C., 3,436,838.
Hemmenway, Stuart F.; and Rosenberry, George M., Jr., 3,436,633.
Hershberger, Doran D., 3,421,034.
Hershberger, Doran D., 3,480,812.
Hesler, Joseph P.; and Peil, William, 3,462,745.
Hewlett, Clarence W., Jr., 3,478,347.
Hewlett, Clarence W., Jr.; and Roberts, John A., 3,483,359.
Hickmott, Thomas W., 3,447,045.
Hildebrand, George L.; and Wendt, Harry C., 3,470,752.
Hildebrandt, Herbert John; and Sylvan, Tage Peter, 3,450,153.
Hill, Charles W., 3,430,980.
Hillhouse, David L., 3,487,402.
Hoag, Yates M., 3,429,579.
Hobson, Charles F., Jr., 3,436,700.
Hodgdon, Russell B., Jr.; Aiken, Edwin J.; and Enos, John F., 3,423,278.
Hodgdon, Russell B., Jr.; Enos, John F.; and Aiken, Edwin J., 3,442,825.
Hodgdon, Russell B., Jr., 3,484,293.
Hoffman, Mary V., 3,450,642.
Hoffman, Mary V., 3,450,643.
Hoffman, Mary V., 3,484,383.
Hoffman, Roger L., 3,465,763.
Hoffmeyer, William R., 3,421,033.
Holcomb, Richard H., 3,420,944.
Holmes, Robert G., 3,420,250.
Holoch, Klaus E., 3,429,850.
Holoch, Klaus E.; Katchman, Arthur; and Shufelt, Rainey A., 3,450,670.
Holoch, Klaus E.; Erhardt, Peter F.; and Benner, Kenneth W., 3,465,062.
Holoch, Klaus E., 3,472,814.
Holoch, Klaus E.; Raynor, David F.; and Haaf, William R., 3,483,271.
Holthausen, Lee H., 3,428,250.
Holub, Fred F., 3,435,002.
Holub, Fred F., 3,440,215.
Holub, Fred F.; and Gaertner, Richard F., 3,448,068.
Holub, Fred F.; Keane, John J.; and Kim, James K. S., 3,477,978.
Holub, Fred F.; and Kiser, Kenneth M., 3,481,812.
Honeycutt, Murray, 3,441,771.
Hopper, Claude, Jr., 3,482,198.
Horn, Fordyce H., 3,432,753.
Hough, Wilfred H., 3,441,770.
Houtman, Jack A., 3,439,205.
Hovious, Thomas C., 3,423,599.
Howald, Werner E.; and Stabrylla, Robert G., 3,420,058.
Howald, Werner E., 3,420,502.
Howell, Edward K., 3,446,991.
Howell, Edward K., 3,476,918.
Hughes, John M., 3,443,575.
Hughes, William C., 3,436,583.
Hughes, William C.; and Peroutky, Donald C., 3,436,584.
Hughes, William C.; and Kunz, Raymond W., 3,453,642.
Hummel, Floyd A.; Sarver, James F.; and Kreidler, Eric R., 3,458,452.
Hunter, Robert D.; Keefer, David E.; and Wilhite, John E., 3,483,519.
Hurko, Bohdan, 3,428,434.
Hurko, Bohdan; and Dills, Raymond L., 3,428,435.
Hurko, Bohdan, 3,450,861.
Hurko, Bohdan, 3,482,079.
Hurtle, James E.; and Kast, Howard B., 3,442,284.
Hurtle, Ralph L., 3,430,016.
Hurtle, Ralph L., 3,430,164.
Hurtle, Ralph L., 3,436,597.
Hurtle, Ralph L., 3,454,832.
Hurtle, Ralph L., 3,454,833.
Hurtle, Ralph L., 3,483,490.
Huttenlocher, Dietrich F., 3,450,338.
Ing, Samuel W., Jr.; and Jensen, Harold A., 3,443,140.
Ing, Samuel W., Jr.; Jensen, Harold A.; and Stern, Barry J., 3,443,166.
Irwin, John W., 3,431,903.
Jacobson, Chester F., 3,448,365.
Jakas, Rimvydas P.; and Chorne, Juan, 3,421,619.
James, William G., 3,420,694.
Janacek, Jerry C., 3,478,210.
Jenkins, Thomas E., 3,425,651.
Jensen, Richard C., 3,422,428.
Jernakoff, George, 3,484,589.
Jerussi, Robert A.; and McCormick, Michael R., 3,424,722.
Johnson, Daniel, 3,451,054.
Johnson, Joseph F.; and Laubenheimer, Robert W., 3,421,123.
Johnson Major A., 3,460,145.
Johnson, Peter D., 3,424,863.
Johnson, Peter D., 3,450,925.
Johnson, Peter D., 3,484,640.
Johnston, George F., 3,430,394.
Johnston, William V., 3,443,058.
Jones, Claude K.; and Martin, Stuart W., 3,423,562.
Jones, Claude K.; and Martin, Stuart W., 3,437,784.
Jones, Clifford M.; and Harnden, John D., Jr., 3,432,846.
Jones, Clifford M., 3,454,856.
Jones, Curtis C., Jr., 3,424,703.
Jones, Howard T.; and Nuckolls, Joe A., 3,440,520.
Jones, Samuel P., 3,447,603.
Jordan, Samuel C.; and Bowling, Teamus, 3,484,858.
Jordan, Thomas J.; and Plant, Henry T., 3,432,859.
Jorgensen, Paul J., 3,434,868.
Jorgensen, Paul J., 3,485,343.
Joseph, Raymond S.; Kemeny, Julius; and Highland, Andrew, Jr., 3,457,892.
Joslyn, John A., 3,431,479.
Kaminski, Joseph, Jr., 3,471,633.
Kamm, Lawrence Joseph, 3,425,132.
Kantola, Robert A., 3,457,935.
Kast, Howard B., 3,433,021.
Kast, Howard B., 3,465,778.
Katchman, Arthur, 3,423,655.

Katchman, Arthur, 3,424,957.
Katuschenko, Walter; and Keinath, Rudolph, 3,483,496.
Kauders, Herbert J., 3,479,296.
Kauffman, Melvin R., 3,428,766.
Kauffman, Melvin R.; and Pattison, Wesley S., 3,466,109.
Kauffman, Melvin R.; and Pattison, Wesley S., 3,486,804.
Kearl, Cyril M.; and Gelbard, Robert B., 3,474,640.
Keck, Arthur C.; and Tomkinson, Stanley E., 3,482,128.
Kelch, Edward J.; and Sergent, David A., 3,457,899.
Kelley, Harold P., Jr., 3,482,087.
Kelling, Leroy U. C., 3,428,792.
Kelling, Leroy U. C., 3,428,876.
Kelling, Leroy U. C., 3,449,554.
Kelm, Walter H., 3,486,401.
Kendall, Louis F., Jr.; and Bredt, James H., 3,480,554.
Kennedy, George Charles, 3,433,730.
Kent, Clifford E., 3,457,115.
Kershaw, Delmar D., 3,435,180.
Kies, Robert M.; and Mente, Louis C., 3,465,144.
Kieser, Frank B., 3,474,579.
Kiesler, Allan; Moffatt, William G.; and Walker, James L., 3,465,423.
Kievit, John C., 3,442,444.
Kimberlin, Dan W., 3,420,588.
Kingsbury, L C James, 3,432,168.
Kirkpatrick, Robert G., 3,429,221.
Kjemtrup, Jens E., 3,431,168.
Klebe, Johann F., 3,479,383.
Klein, Keith W., 3,421,128.
Klein, Keith W., 3,463,967.
Klein, Keith W., 3,464,045.
Kloska, Anthony J., 3,439,152.
Knaub, Edgar W., 3,441,534.
Knglsey, Jack D.; and Prener, Jerome S., 3,432,769.
Koch, Robert E., 3,471,818.
Koff, Bernard L.; Sterman, Albert P.; and Corsmeir, Robert J., 3,451,653.
Korzekwa, Sam M.; and Schindler, Hans R., 3,428,828.
Kotsch, William E., 3,458,756.
Krol, Ronald A., 3,466,583.
Krulls, Gerd E., 3,444,408.
Krystyniak, Casimir W., 3,429,962.
Kutney, John T.; and Erwin, John R., 3,434,679.
Kydd, Paul H., 3,446,481.
Kydd, Paul H., 3,446,482.
Kydd, Paul H., 3,457,619.
La Haye, Paul G., 3,422,800.
Lafferty, James M., 3,432,713.
Lafferty, James M., 3,465,192.
Lafferty, James M., 3,465,205.
Lafuze, David L., 3,431,483.
Lafuze, Dvid L., 3,423,667.
Lamb, Robert E., 3,475,144.
Lamberton, Clifford J., 3,474,326.
Lamoreaux, Harry F., 3,438,936.
Landgraf, William B., 3,430,189.
Lane, James W., 3,469,828.
Lanzl, Robert H.; and Lee, Harold R., 3,439,235.
Larew, John J., 3,470,423.
Larsen, John E.; and Sims, Marion W., 3,421,208.
Larsen, John E., 3,432,907.
Larsen, John E.; and Van Derzee, Harold R., 3,438,125.
Larsen, John E., 3,456,142.
Lass, James L.; and Venier, Dominic A., 3,431,170.
Lass, James L., 3,466,226.
Lavash, John P., 3,420,055.
Lavoo, Norman T., 3,437,949.
Lee, Harold R., 3,449,641.
Lee, Thomas H., 3,441,800.
Lee, Thomas H.; and Streater, August L., 3,469,048.
Leftin, Joseph P., 3,458,677.
Lennard, Dean J., 3,430,640.
Lenz, James E., 3,467,928.
Leonard, Charles E., 3,457,485.
Lesk, Israel Arnold, 3,434,023.
Levinstein, Moses A.; and Butts, William R., 3,466,166.
Lewis, Ernest Eber, 3,477,523.
Lewis, Frederick M., 3,451,965.
Lezan, Georges R. E., 3,436,638.
Lezan, Georges R. E., 3,440,568.
Lindt, Stanley L.; and Woods, Clarence W., Jr., 3,438,122.
Linz, Robert M.; and Bednarczuk, Frederick P., 3,465,708.
Lipstein, Norman J., 3,486,055.
Lister, John W.; and Smith, Lawrence E., 3,440,482.
Logepwell, Donald Lyle; and Tipton, James Phillips, 3,486,005.
Loh, Jack C.; and Norman, Robert S., 3,439,261.
Long, James; and Pedersen, Niels P., 3,465,228.
Lord, Harold W., 3,430,162.
Lord, Harold W., 3,458,843.
Lotz, Charles W., 3,453,181.
Louden, William C., 3,448,319.
Louden, William C., 3,479,170.
Ludewig, Frederick A., Jr.; and Myracle, James L., 3,487,400.
Lukens, George B., II, 3,424,898.
Lupinski, John H.; and Hertz, Jerome J., 3,424,698.
Lupinski, John H.; and Hertz, Jerome J., 3,481,840.
Lustenader, Edward L., 3,444,924.
Lustenader, Edward L.; and Van Luik, Frank W., Jr., 3,478,494.
Lustenader, Edward L., 3,481,120.
Lyman, Arthur T., 3,435,290.
Lyons, Ernest H., Jr.; Maget, Henri J. R.; and Roethlein, Richard J., 3,461,044.
MacDougal, John G., 3,461,330.
Macemon, Herbert J., 3,440,519.
MacKellar, Donald; and Joynson, Reuben E., Jr., 3,450,534.
Macoicz, Edward L., 3,451,556.
Macoicz, Edward L., 3,467,814.
Maget, Henri J. R.; and Roethlein, Richard J., 3,425,874.
Maier, Cletus E., 3,456,148.
Malewicz, Leonard A., 3,452,814.
Mapham, Neville, 3,452,252.
Mapother, Thomas C., 3,427,512.
Margolis, Joseph M., 3,420,625.
Marks, Louis W., 3,441,885.
Martellock, Arthur C., 3,464,945.
Martin, Donald L.; and Benz, Mark G., 3,429,032.
Martin, Robert L., 3,467,939.
Martin, Robert L., 3,467,941.
Martin, William S., 3,424,991.
Martiniak, Leonard J.; and Race, Marlin L., 3,430,223.
Martiniak, Leonard J., 3,456,680.
Mathes, Kenneth N., 3,466,378.
Mathes, Kenneth N., 3,479,218.
Mathes, Kenneth N., 3,480,846.
Mathes, Kenneth N.; and Plant, Henry T., 3,484,542.
Maxwell, Hugh S., 3,486,393.
May, Howard F., 3,423,078.
May, Howard F.; and Kovacik, John M., 3,443,550.
Mc Carty, Clyde W., 3,432,698.
McCarty, Orin P.; and Urbanek, Francis S., 3,472,981.
McClure, John L., 3,423,660.
McClure, John L., 3,431,395.
McDonald, William J.; Bynum, Edward B., Jr.; and Cronquist, William E., 3,425,515.
McDowell, Earle B., 3,430,106.
McDowell, Francis C., 3,439,079.
McKeever, Bruce T., 3,427,599.
McLean, Howard J., 3,449,608.
McMorris, William A., 3,457,381.
McMorris, William A., 3,462,611.
McMurray, William, 3,487,289.
McQuade, James M., 3,475,297.
McQuade, James M., 3,477,875.
McVoy, Charles F., Jr., 3,482,032.
Mehr, Hans P., 3,467,312.
Mendelsohn, Lewis I.; and Curran, Robert E., 3,432,279.
Meng, John D., 3,430,064.
Merdian, Anton W., Jr., 3,457,529.
Merdian, Anton W., Jr., 3,465,207.
Merrill, Duane F., 3,435,001.
Merrill, Duane F., 3,450,672.
Metlay, Max; and Schaefer, Donald L., 3,482,974.
Metzger, Matt F., 3,429,056.
Meyer, Lawrence L., 3,443,126.
Michon, Gerald J.; and Stratton, Jerry L., 3,458,731.
Michon, Gerald J., 3,479,527.
Miklos, Zoltan W.; and Billson, John A., 3,454,053.
Milford, Richard E., 3,427,585.
Milford, Richard E., 3,430,204.
Milford, Richard E., 3,474,251.
Miller, Clarence John, 3,460,816.
Millikan, Roger C., 3,448,320.
Millikan, Roger C.; and Osburg, Ludwig A., 3,448,322.
Millis, Walter T., 3,465,196.
Milroy, Philip R., 3,457,399.
Mitoff, Stephan P., 3,436,269.
Mitoff, Stephan P., 3,481,780.
Mittermaier, Armin F.; and Mees, Robert D., 3,450,190.
Modic, Frank J., 3,425,967.
Modic, Frank J., 3,436,366.
Modic, Frank J., 3,457,214.
Mogle, Rodman A., 3,467,891.
Mohrman, Donald W.; and Avila, Francisco C., 3,456,338.
Molenaar, Charles Richard, 3,440,580.
Mollman, Donald B., 3,443,257.
More, Philip J., 3,422,812.
More, Philip J., 3,446,201.
Morelock, Charles R., 3,479,205.
Morgan, Raymond E., 3,432,740.
Morgan, Raymond E., 3,461,317.
Morgan, Raymond Evan, 3,487,234.

Morrissette, Philip A., 3,439,880.
Mueller, Robert J., 3,420,997.
Mullings, Donald M., 3,486,523.
Mulski, Francis P., 3,457,472.
Munday, James C.; and Neale, Junius B., 3,422,514.
Murphy, Frank H.; and Owen, Henry E. S., 3,453,568.
Murphy, Robert A., 3,441,583.
Murphy, Robert A., 3,458,469.
Murphy, Robert A., 3,484,471.
Musgrove, Ronald Obie; and McMillan, William Joseph, 3,432,048.
Myers, Eldred M.; and Schuls, Philip G., 3,452,278.
Myers, Richard T.; McKee, Thomas A.; Spangler, Fred E.; and Wright, Kenneth L., 3,470,481.
Nasca, Anthony V.; and Bacon, John F., 3,476,637.
Nash, Dudley O., 3,480,236.
Nash, Dudley O., 3,484,144.
Nash, James L., 3,429,757.
Naydan, Theodore T.; and Koenig, Harold R., 3,432,721.
Naydan, Theodore T.; and Tomiyasu, Kiyo, 3,432,722.
Nelson, James A., 3,468,389.
Nelson, John D., 3,445,431.
Nelson, John D., 3,445,432.
Nelson, Thomas F., 3,474,794.
Netzel, Philip C.; and Stewart, William E., 3,440,371.
Neugebauer, Constantine A., 3,436,256.
Neugebauer, Constantine A.; Rairden, John R., III; and Joynson, Reuben E., Jr., 3,436,258.
Neugebauer, Constantine A., 3,481,778.
Newberry, Sterling P., 3,467,878.
Newhouse, Vernon L.; and Mundy, Joseph L., 3,480,920.
Newkirk, Arthur E., 3,481,852.
Ney, Robert J., 3,437,860.
Niedrach, Leonard W.; and Alford, Harvey R., 3,432,355.
Norris, Rollin H., 3,463,952.
Northup, Robert P., 3,456,502.
Nuckolls, Joe A.; and Osteen, Mitchell M., 3,483,430.
Nyquist, Bernard B., 3,456,995.
Ogrinc, Herman F., 3,485,767.
Olashaw, William F., 3,463,968.
Olsson, Raymond G.; and Williams, Earl C., 3,438,668.
Oster, Eugene A.; Miekka, Richard G.; and Maget, Henri J. R., 3,423,228.
Owens, Robert S.; and Barnes, Wilson J., 3,458,260.
Palladino, Michael J., 3,435,132.
Palladino, Michael J., 3,471,636.
Palm, John A., 3,482,941.
Palmer, Ansell W., 3,434,724.
Parker, Rollin J., 3,422,294.
Parker, Rollin J., 3,422,295.
Parker, Rollin J., 3,440,364.
Parker, Rollin J., 3,466,405.
Patsch, Glenn F., 3,470,410.
Paulson, Elmir E., 3,477,231.
Payette, Lionel J., 3,442,847.
Pearson, Robert S., 3,452,230.
Peddle, Charles I., 3,435,191.
Peddle, Charles I., 3,456,238.
Pelczynski, Paul J.; and Thielking, Roger C., 3,422,217.
Perdu, Bennie G., 3,439,245.
Perkins, Donald W., 3,426,241.
Pertwee, Kenneth S. G., 3,484,644.
Peters, Philip H., Jr., 3,458,754.
Petrides, Christie, 3,432,735.
Petrie, Adelore F., 3,454,889.
Phillips, Thomas Anthony, 3,424,949.
Piccone, Dante E.; and Somos, Istvan, 3,440,501.
Picozzi, Vincent J., 3,462,669.
Pierson, William D., Jr., 3,465,914.
Pietsch, Joseph A., 3,477,211.
Pinaire, Lonnie W., 3,424,382.
Pistey, John M., 3,423,722.
Pohl, Walter J., 3,483,350.
Pohlman, Marvin A.; and Moore, Joseph B., 3,457,066.
Pollard, Ernest M., 3,450,894.
Polonsky, Samuel; and King, Bartley E., 3,432,625.
Porcelli, Ernest J.; and Rakoczi, Laszlo L., 3,475,729.
Porter, Dennis A.; and White, Robert R., 3,480,790.
Poteate, Wilmer B.; and Weygandt, Peter C., 3,423,614.
Powell, David B., 3,464,040.
Powell, Walter F., Jr., 3,482,145.
Powell, William A., 3,445,203.
Prescott, Leonard E., 3,482,499.
Prochaska, Robert J., 3,422,119.
Prochaska, Robert J., 3,481,901.
Proxmire, Harry J., 3,478,290.
Quinn, Joseph G., 3,432,658.
Raciti, Joseph A., 3,482,755.
Radnor, Richard Rishel, 3,471,720.
Raillard, Heinz; and Wolf, Irving W., 3,439,349.
Rairden, John R., III; and Furey, James T., 3,432,416.
Ralston, Bobby J., 3,444,890.
Raphael, Thomas; and Johnson, William C., 3,476,589.
Rayno, Glenn D.; Grahame, Frederick W.; and Paul, Carl E., 3,444,602.
Razaitis, Leo C.; Meng, John D.; and Nowell, John R., 3,437,833.
Reas, William H., 3,432,276.
Reaux, Donald J., 3,439,878.
Rechou, Jacques C.; and Slonneger, John L., 3,466,587.
Redden, Thomas K., 3,482,967.
Redden, Thomas Kennedy, 3,451,792.
Redzinski, Gilbert E.; and Soltis, Joseph P., Jr., 3,459,941.
Reeves, Robert Bruce; and Coulter, John Q., 3,452,711.
Reich, William A., 3,421,196.
Reinhard, Donald L., 3,440,204.
Rentz, John C., 3,431,611.
Rich, Joseph A., 3,471,733.
Rich, Joseph A., 3,471,734.
Rich, Joseph A., 3,471,736.
Rich, Joseph A., 3,480,821.
Rich, Theodore A.; Groves, James N.; and Skala, George F., 3,458,284.
Richardson, John R., 3,480,843.
Richter, Ralph W.; and Mongesku, William O., 3,463,565.
Rieke, Richard J., 3,433,217.
Rieke, Richard J., 3,452,743.
Riley, John E., 3,441,836.
Riley, John E., 3,450,891.
Riley, John E., 3,457,481.
Rinehart, Dean C., 3,423,013.
Ring, Clinton E.; and Loyd, Raymond E., 3,450,021.
Ripplinger, Roland E., 3,437,827.
Roberts, Earl W., Jr.; and Griffin, Richard H., 3,457,383.
Roberts, John A., 3,439,262.
Roberts, John A., 3,471,746.
Roberts, Robert C., 3,484,669.
Robinson, Jack D., 3,425,049.
Roche, Jean A., 3,451,409.
Rodbell, Donald S.; and Bean, Charles P., 3,474,426.
Rohde, Theodore M., 3,457,756.
Rose, Robert K., 3,465,775.
Rosser, Daniel B., 3,484,660.
Roussin, Alfred G., 3,423,625.
Rublack, Wilfred D., 3,435,268.
Ruiz, Carl P.; Rider, Benjamin F.; and Gerhart, James M., 3,459,634.
Sabonis, Charles J., 3,422,358.
Saferstein, Samuel D.; and Gisslen, Jan M., 3,452,542.
Salley, Ernest J.; and Jones, William H., 3,421,088.
Samsel, Richard W., 3,449,961.
Sandin, Raymond C.; and Schmitt, Charles H., 3,430,386.
Sargisson, Donald F., 3,483,676.
Sarver, James F.; and Apple , Eugene F., 3,430,089.
Sarver, James F.; and Louden, William C., 3,441,421.
Schaefer, Donald L., 3,471,291.
Schaefer, Donald L., 3,482,975.
Schaefer, Donald L.; and Burgess, James F., 3,482,976.
Schaefer, Donald L., 3,483,108.
Schaefer, Orville L., 3,435,427.
Scheper, George W., Jr., 3,452,782.
Schlawin, Ralph G., 3,436,703.
Schmid, Hermann, 3,435,196.
Schmid, Hermann, 3,443,074.
Schmid, Hermann, 3,473,011.
Schmid, Hermann, 3,474,440.
Schmieder, Albert K., 3,426,587.
Schnacke, Arthur W., 3,450,195.
Schoch, Karl F., 3,422,765.
Schrom, Edward C., 3,486,062.
Schulte, Johann F., 3,463,726.
Schumacher, Walter C.; and Sheldon, Luther M., 3,461,417.
Scott, William B., Jr.; and Mundschenk, Glenn R., 3,451,733.
Seeliger, Kurt G.; and Strunk, Carleton L., 3,437,857.
Seiwert, David L., 3,442,442.
Selin, Terry G., 3,453,303.
Selin, Terry G., 3,453,304.
Selin, Terry G., 3,453,305.
Selin, Terry G., 3,453,306.
Selin, Terry G., 3,457,290.
Selin, Terry G., 3,471,500.
Selin, Terry G., 3,481,965.
Shanks, Bruce E., 3,448,321.
Sharbaugh, Amandus H., 3,483,438.
Shartrand, Allan C.; Holley, Charles H.; and Archibald, James B., 3,461,329.
Shaver, Paul J., 3,479,257.
Sheets, Marvin W., 3,436,815.
Sheldon, Richard C., 3,420,054.
Sherer, Thomas L.; and Flowers, Ralph G., 3,471,444.
Sholtes, George T., 3,439,688.
Sias, Frederick R., 3,471,757.

Siebold, Donald J.; and Callahan, Michael L., 3,478,718.
Simms, Michael L.; and Bopp, Joseph E., 3,467,458.
Simoneau, Edward T., 3,432,536.
Sims, Marion W., 3,471,917.
Sims, Marion W., 3,471,926.
Sisler, Robert R., 3,463,285.
Sitter, David N., 3,424,908.
Skala, George F., 3,463,589.
Smith, Harold J., 3,456,223.
Smith, Ivie L., 3,462,372.
Smith, Leroy H., Jr., 3,442,493.
Smith, William W., 3,440,579.
Snively, Howard D., 3,445,703.
Snow, Barton H., 3,458,806.
Snow, Barton H.; and Borel, Ronald F., 3,472,027.
Sofianek, Joseph C., 3,441,698.
Sofianek, Joseph C., 3,462,572.
Solberg, Willis O., 3,463,992.
Somers, William P., 3,462,585.
Spangler, Charles W., 3,450,888.
Spencer, William R., 3,443,080.
Spencer, William R., 3,466,070.
Spofford, Walter R., Jr., 3,447,067.
Sporck, Christian R., 3,452,071.
Sporck, Christian R., 3,452,072.
St. Pierre, Philippe D. S., 3,471,284.
Staats, James E., 3,421,115.
Staats, James E., 3,443,150.
Staats, James E.; and Ogburn, Robert D., 3,445,784.
Staats, James E., 3,456,151.
Staats, James E., 3,458,753.
Staats, James E., 3,458,755.
Staats, James E., 3,459,994.
Stauffer, Lynn H., 3,428,776.
Steen, Floyd L., 3,449,703.
Stephens, Joe F., 3,444,417.
Stephens, Joe F.; and Wilson, Dan M., 3,456,147.
Stewart, Vincent N., 3,456,220.
Stoddard, Edgar S., 3,451,557.
Stoeckly, Eugene E., 3,453,443.
Stokes, Kenneth J., 3,424,882.
Stokes, Kenneth J., 3,436,710.
Stokes, Kenneth J., 3,475,711.
Stone, Melvin L.; and Danko, George K., 3,441,774.
Stone, Melvin L.; and Danko, George K., 3,483,609.
Stopper, Herbert, 3,421,026.
Stout, Virgil L.; and Whetten, Nathan Rey, 3,461,306.
Straney, Kenneth Orral; and Sivertsen, Ove Mareno, 3,422,831.
Susdorf, Robert A.; and Armstrong, Fredrick J., 3,465,186.
Swain, David L., 3,474,290.
Swanson, Arthur A., 3,421,199.
Swenson, Alfred G., 3,474,552.
Swerbinsky, Leo, 3,436,928.
Swetnam, Norman T., 3,421,660.
Sylvan, Tage P., 3,439,237.
Sylvan, Tage P., 3,482,177.
Szabo, Louis J., 3,447,189.
Szeremy, Norman, 3,435,139.
Szeremy, Norman; Highland, Andrew, Jr.; and Elwell, Charles E., 3,448,429.
Szeremy, Norman, 3,452,153.
Szeremy, Norman, 3,482,041.
Tachick, Henry N., 3,472,234.
Taft, Ernest A., Jr.; and Gray, Peter V., 3,451,867.
Tantraporn, Wirojana; and Yu, Se Puan, 3,482,119.
Tassie, Douglas P., 3,435,937.
Taylor, Charles E.; and Kemeny, Julius, 3,484,696.
Taylor, Robert B., 3,447,367.
Terry, Vincent G., Jr., 3,427,488.
Tiemann, Jerome J.; Engeler, William E.; Garfinkel, Marvin; and Fritzsche, Hellmut, 3,462,223.
Tombaugh, Roy W., 3,440,853.
Tomlinson, Lee H., 3,457,121.
Tragert, William E., 3,432,349.
Trekell, Harold E.; and Warburton, Joe A., 3,448,617.
Trendowski, Thomas William, 3,426,822.
Trumper, Jay M., 3,437,005.
Truskalo, Walter, 3,440,484.
Turnbull, Fred G.; and Espelage, Paul M., 3,487,278.
Twomey, Thomas J., 3,451,503.
Tye, Gene, 3,427,437.
Ulatowski, Vincent J., 3,430,996.
Van Bennekom, Carl F., 3,438,603.
Van Marter, Charles W., 3,421,068.
Vaughn, Howard A., Jr., 3,444,229.
Vedder, Willem; and Schultz, John, Jr., 3,477,058.
Venable, Lawrence B., 3,480,342.
Venning, Selby G., 3,431,399.
Vodicka, Vincent, 3,435,270.
Vodicka, Vincent, 3,461,522.
Voyentzie, Peter R.; and Ziemba, Richard T., 3,475,572.
Wade, Clinton A., 3,484,686.
Wagner, Bernard C., 3,429,753.
Walkup, William B., 3,431,817.
Walsh, James A.; and White, Harlan V., 3,437,047.
Wargo, Evelyn H., 3,467,205.
Watkins, Linwood C., Jr., 3,458,727.
Watrous, Donald L., 3,486,042.
Watrous, Donald L.; and Harnden, John D., Jr., 3,487,345.
Watrous, Donald Leland; and Harnden, John D., Jr., 3,464,225.
Watters, Robert L., 3,434,063.
Webster, Harold F., 3,445,708.
Weigel, Russell V., 3,420,646.
Weiner, Albert P., 3,426,604.
Weininger, Joseph L.; and Rouse, Thomas O., 3,433,722.
Weininger, Joseph L.; and Rouse, Thomas O., 3,459,651.
Weischedel, Richard C., 3,447,626.
Weischedel, Richard C., 3,452,281.
Weischedel, Richard C., 3,466,564.
Welch, Stanley B., 3,428,785.
Welch, Stanley B., 3,463,905.
Weller, Elbert J., 3,434,553.
Wendt, Harry C., 3,470,751.
Wess, Thomas B., 3,442,218.
White, Donald W., 3,432,292.
White, Donald W.; Tragert, William E.; and Rocco, William A., 3,432,352.
White, Donald W., 3,445,293.
White, Donald W., Jr., 3,460,991.
White, Eugene Robert, 3,438,814.
White, Frederick M., 3,429,140.
Whitten, James R., 3,435,374.
Whitten, James R., 3,450,873.
Whitten, James R., 3,450,874.
Whitten, James R.; and Rist, Donald H., 3,450,875.
Whitten, James R., 3,479,502.
Wilbur, Benjamin, 3,449,977.
Wilkerson, Robert B., 3,420,255.
Willard, Henry G., 3,454,831.
Williams, Raymond L., 3,472,480.
Willyoung, David M., 3,435,263.
Willyoung, David M., 3,440,462.
Willyoung, David M., 3,476,964.
Willyoung, David M., 3,476,966.
Wilson, Henry L.; and Brunelle, Ronald D., 3,484,540.
Wilson, Jerry D., 3,454,848.
Wilson, Volney C., 3,482,120.
Wingler, William C., 3,460,342.
Wingler, William C., 3,475,900.
Winkler, William K., 3,439,669.
Wolf, Irving W., 3,433,721.
Wolfram, Adolf E., 3,427,544.
Wolters, Gerard C., 3,428,759.
Wood, Robert F., 3,427,496.
Woodson, Carl W., 3,458,129.
Worst, Joseph C., 3,439,896.
Worthington, Peter L., 3,478,815.
Wright, Achibald N.; and Feller, John R., 3,480,553.
Wright, Archibald N.; and Merrill, Richard C., 3,447,218.
Wright, John H., 3,453,210.
Wright, John N., 3,483,541.
Wu, Tse C., 3,424,778.
Wu, Tse C., 3,440,266.
Wu, Tse C., 3,444,128.
Wu, Tse C., 3,470,130.
Wu, Tse C., 3,478,077.
Wu, Tse C., 3,487,098.
Wurster, John H., 3,454,842.
Wurster, John Henby, 3,447,048.
Xenakis, Sabbas N., 3,480,826.
Yagher, Charles, Jr., 3,462,698.
Yates, Edward S., 3,444,407.
Yeamans, Wilfred H., 3,422,319.
Yu, Se Puan, 3,486,132.
Zerfoss, Robert W., 3,455,590.
Zerfoss, Robert W., 3,479,701.
Ziegler, Edwin E., 3,481,162.
Zubal, Anthony; and Davis, Harry F., 3,464,101.
Zuccaro, Robert H., 3,420,792.
Zuerker, Siegfried J., 3,446,920.
Zvanut, Carl M., 3,428,519.
Zwicky, Everett E., Jr., 3,446,224.
Zysk, Stephen; and MacKenzie, Burton T., Jr., 3,433,891.

General Electric Company, Limited, The: *See*—
Berry, Allan David, 3,428,827.
Berry, Allan David; Johnson, Maurice Peter; and Whitbread, John Raymond, 3,449,525.
Bester, Dennis R.; and Pratt, Geoffrey, 3,479,461.
Brabham, Hugh Basil Schofield, 3,464,015.
Donelan, James Arthur; and Williams, Michael, 3,453,725.
Fletcher, Charles Philip; Friedlander, Erich Siegfried; Manzler, Maurice Leslie; and Young, David John, 3,450,981.

Haines, Ernest Martin; and Taylor, Henry Bastian, 3,478,285.
Hutchison, Ronald Thomas James; and Jenkins, Stuart Mc Ewen, 3,433,912.
Keach, Anthony Eric Raoul; and Smith, Michael Charles, 3,441,920.
Medford, Albert; and Wilson, Bernard, 3,421,086.
Page, Peter Colin; Rous, Ronald Frank; Sigrist, Paul; and Ward, Peter William, 3,423,539.
Pfyffer, Hans Karl; and Whitbread, John Raymond, 3,424,858.
Rigden, Sydney A. R.; and Whiscombe, John B., 3,428,846.
Rigden, Sydney Alfred Richard; and Whiscombe, John Brian, 3,473,071.
Rodgers, Gerald Patrick, 3,434,127.
Smith, George Mitchell, 3,438,024.
Wicker, Reginald Gordon, 3,441,870.
Wicker, Reginald Gordon, 3,441,871.
Wicker, Reginald Gordon, 3,479,610.
Williams, Michael, 3,423,707.
Williams, Michael, 3,427,710.
Wilson, Bernard, 3,423,698.
Wright, Robert Andrew, 3,422,971.

General Electric Information Systems S.p.A.: *See*—
Bossi, Oscar, 3,485,164.

General Electrodynamics Corporation: *See*—
Bynum, Stanley A., 3,450,564.
Gray, Tommy L., 3,452,600.
Gray, Tommy L., 3,464,509.
Gray, Tommy L., 3,481,414.
Hutchinson, Ann, 3,423,237.

General Engineering & Manufacturing Corporation: *See*—
Wallace, Earl C., 3,458,094.

General Engineering Co., (Radcliffe) Limited: *See*—
Grindrod, Harold Ernest; and Smith, John Alfred, 3,423,014.

General Equipment and Manufacturing Company: *See*—
Fry, Warren C., 3,421,023.

General Fireproofing Company, The: *See*—
Krispinsky, Alois S.; Thomas, Howard P.; and Hamrock, Alfred R., 3,451,730.

General Foam Products Limited: *See*—
Stern, Alfred; and Sheldon, Neville Maurice, 3,452,122.

General Foods Corporation: *See*—
Adler, Irwin L.; and Bowden, Howard J., 3,485,637.
Bender, William A., 3,485,920.
Block, Harry W.; and Henshall, Neal, 3,458,319.
Block, Harry W.; Adams, Joan M.; and Finucane, Thomas P., 3,476,571.
Burgess, Hovey M.; and Mellentin, Robert W., 3,482,985.
Clausi, Adolph S.; and Vollink, Willard L., 3,453,115.
D'Ercole, Augustine; Krias, Aristides; and Tewey, Robert, 3,467,528.
Elerath, Byron Everett, 3,443,962.
Feldman, Jacob R.; Fischer, Valentine J.; Berkowitz, Lewis M.; and Hammell, Matthew, 3,441,417.
Finucane, Thomas P., 3,482,993.
Green, Julius; Morse, Richard W.; and Westfall, Dick R., 3,448,718.
Guggenheim, Herbert, 3,420,673.
Hanley, James A., 3,450,588.
Hollis, Frank, Jr.; and Tressler, Charles Jay, Jr., 3,483,001.
Kaleda, William W.; and Johnson, Joe W., 3,443,961.
Kaleda, William W., 3,482,988.
Kan, Billy; and Katz, Saul N., 3,424,589.
Lee, Edward P.; Lombardi, Eugene H.; Montes, Ralph A.; and Stoeckli, Oscar W., 3,470,996.
Lorant, George John, 3,431,117.
Ludwig, Warren B.; Elerath, Byron E.; and Ewald, John F., Jr., 3,443,324.
Mahlmann, James P.; Migdol, Norman R.; and Kaleda, William W., 3,421,901.
McCartney, James R., 3,420,674.
Mitchell, William A.; and Schwartzberg, Henry G., 3,467,526.
Mitchell, William A.; and Klose, Robert E., 3,471,301.
Mitchell, William A.; and Seidel, William C., 3,480,444.
Pfluger, Richard A.; Schulman, Marvin; and Hertzendorf, Martin S., 3,482,990.
Pitchon, Esra; Feldbrugge, Alonzo H.; and Schulman, Marvin, 3,482,987.
Rispoli, Joseph M.; Finucane, Thomas P.; and Sorge, Richard M., 3,473,931.
Scharschmidt, Rudolph K.; and Kenyon, Ralph Edward, 3,467,530.
Schwartzberg, Henry, 3,468,672.
Simon, Herman R.; and Barnett, Stanley, 3,443,963.
Slock, Harry W.; and Touher, Paul B., 3,433,650.
Vollink, Willard L.; and Ver Steeg, Melvin A., 3,484,250.
White, William V.; Mahlmann, James P.; and Stolz, Robert P., 3,476,566.
Woodruff, George M.; Morrison, Fred T.; and Balaban, Ostap, 3,438,310.

General Gas Light Company: *See*—
East, Robert D., 3,469,528.
Loveless, Stanley M., 3,470,910.

General Gummed Products, Inc.: *See*—
Feigel, Harold J., 3,455,082.

General Incinerators of California, Inc.: *See*—
Burden, Roy B., Jr.; and O'Gieblyn, Ernest J., 3,453,976.
Burden, Roy B., Jr., 3,472,185.

General Industries, Inc.: *See*—
Johnson, Alvin L., 3,432,143.

General Instrument Corporation: *See*—
Bernstein, Bernard; and Suchmann, Robert V., 3,484,864.
Farr, Harold K., 3,436,721.
Freeman, Stanley B., 3,469,210.
Freer, Walter, 3,479,622.
Gostyn, Ernest, 3,427,497.
Grudin, Milton R.; and Johnson, Harald R., 3,448,358.
Halpern, Allan S., 3,457,637.
Harten, John T., 3,474,362.
Intrater, Josef; and Hill, Lawrence R., 3,468,722.
Stamm, Russell D.; and Smart, Sidney K., 3,463,017.
Tibol, George J., 3,457,614.
Wanlass, Frank M., 3,423,606.
Wanlass, Frank M.; and Shultz, Robert M., 3,438,121.
Wanlass, Frank M., 3,448,295.
Zoladz, Frank J., 3,469,218.

General Kinematics Corporation: *See*—
Musschoot, Albert, 3,467,594.

General Marine, Inc.: *See*—
Jordan, Richard J.; and Erickson, Paul N., 3,445,669.

General Marine Technology Corporation: *See*—
Aul, Albert H., 3,474,014.

General Metal Products Company: *See*—
Mattick, Ralph, 3,420,484.

General Mills, Inc.: *See*—
Abrahamson, Clifford A., 3,481,677.
Aelony, David, 3,456,006.
Aelony, David, 3,467,707.
Anker, Charles A., 3,464,825.
Arnold, Heinz B.; and Floyd, Don E., 3,423,480.
Bateson, Robert N., 3,430,751.
Bateson, Robert N., 3,455,167.
Benson, John O.; and Moen, Rolf, 3,447,931.
Benson, John O., 3,462,276.
Benson, John O.; and Smirnow, Peter, 3,477,851.
Benson, John O., 3,482,992.
Boushka, William M., 3,459,408.
Brastad, William A., 3,459,483.
Carroll, David A.; and Kuramoto, Simpey, 3,482,998.
Christianson, George; Carroll, David A.; and Kuramoto, Simpey, 3,482,996.
Cummisford, Patricia D., 3,464,828.
Elmquist, Lyle F., 3,442,695.
Elmquist, Lyle F.; and Kamal, Marwan R., 3,462,295.
Floyd, Don E., 3,442,856.
Gyde, Donald G.; Meindl, Howard R.; and Varani, Frederick T., 3,463,098.
Harrison, Stuart A.; and Wicklatz, John E., 3,478,081.
Hasten, Mark; Jones, Lee S.; Haub, John T.; and Ceroll, Gerald E., 3,446,138.
Hasten, Mark; and Lobash, Floyd, 3,464,086.
Jones, Duane A., 3,480,511.
Jordan, Wesley A., 3,483,121.
Kamal, Marwan R., 3,432,574.
Kamal, Marwan R.; and Wittcoff, Harold A., 3,440,087.
Kamal, Marwan R.; and Rogier, Edgar R., 3,455,883.
Kamal, Marwan R., 3,465,023.
Kamal, Marwan R.; and Floyd, Don E., 3,481,774.
Keen, James L., 3,455,899.
Keller, Harold M., 3,468,673.
Kettenring, Otto; and Gotze, Wolfgang, 3,449,273.
Maxwell, Donald L., 3,454,403.
McKown, William L.; Ball, Murray E.; Moen, Rolf; and Weiss, Verne E., 3,450,538.
McKown, William L.; Zietlow, Philip K.; and Ball, Murray E., 3,464,826.
Nash, Edmund G.; Kamal, Marwan R.; and Aelony, David, 3,455,981.
Nazy, John R.; and Wheeler, Donald H., 3,449,423.
Odden, La Verne M., 3,430,869.
Peerman, Dwight E., 3,444,026.
Peerman, Dwight E.; and Vertnik, Leonard R., 3,483,237.
Pugh, William A. G.; and Moore, Stuart F., 3,466,793.
Reinhart, Richard D.; and Stephenson, Robert W., 3,458,321.
Rogier, Edgar R.; and Wiley, Fred E., 3,447,999.
Savre, Graydon; and Wernecke, Lloyd C., 3,433,646.
Stokes, Kenneth B., 3,454,412.
Swandon, Ronald R., 3,455,816.
Swanson, Ronald R., 3,428,449.
Swanson, Ronald R., 3,443,887.
Swanson, Ronald R., 3,449,066.
Swanson, Ronald R., 3,464,784.

Tsuchiya, Takuzo; and Perttula, Harold V., 3,464,827.
Van Bochove, Cornelis; Hueck, Hendrik J.; and Wittcoff, Harold, 3,453,067.
Vertnik, Leonard R., 3,462,284.
Vertnik, Leonard R.; and Wittcoff, Harold, 3,475,406.
Wahba, Isaac J., 3,464,830.
Wheeler, Donald H., 3,444,220.
Yueh, Mao Hsun, 3,421,905.

General Monitors, Inc.: *See*—
Ward, William H., Jr., 3,436,328.

General Motors Corporation: *See*—
Addie, Albert N.; and Rose, Charles L., 3,435,887.
Addie, Albert N.; and Hart, Jack P., 3,435,888.
Agarwal, Paul D., 3,476,998.
Agarwal, Paul D., 3,476,999.
Albertzart, Roy R., Jr., 3,433,685.
Alfes, John A.; Redding, Harry L.; and Roller, Albert E., 3,425,747.
Alig, Robert L.; and Rappaport, George, 3,446,693.
Allen, Raymond W., 3,429,192.
Allison, John P., 3,423,484.
Altson, Ralph, 3,477,773.
Anspaugh, Warren E., 3,436,045.
Armes, Gerald Lee; and Gregg, James Leslie, 3,467,867.
Augunas, Algis G., 3,433,525.
Baer, Donald G., 3,423,581.
Bailey, Thomas E., 3,456,130.
Ballantyne, David B.; and Goring, Maurice T., 3,433,119.
Ballou, Richard P., 3,476,949.
Bassett, Arthur T., Jr.; Cook, Cleo E.; and Schuler, Thomas C., 3,473,733.
Batson, Robert R.; and Williams, Russell C., 3,460,280.
Beatenbough, Paul K.; Hutchins, Ward H.; and Orcutt, John W., 3,448,659.
Beatenbough, Paul K.; and Weiss, Walter W., 3,455,505.
Beatenbough, Paul K.; and Richards, Gary E., 3,476,018.
Bemmann, Richard W., 3,459,052.
Bennett, Ronald W.; and Dunlope, Kenneth H., 3,442,134.
Bergstrom, James W.; and Sutherland, Glenn E., 3,422,173.
Bernotas, Ralph J.; Fisher, James W.; and Scott, Robert H., 3,466,765.
Beveridge, Thomas R.; and Snyder, Benjamin N., 3,460,573.
Bevers, Eugene J., 3,439,496.
Blinder, William, 3,468,034.
Bluhm, Elmer, 3,460,760.
Bockemuehl, Robert R., 3,443,101.
Boretti, Napoleon P.; Bratton, Wilson T.; and Tolstyka, Joseph R., 3,477,870.
Born, Gerald C.; and Wesson, Guy W., 3,476,417.
Bowen, Donald R.; and Fischer, Raymond G., 3,429,179.
Boys, Donald R.; Gelling, Homer R.; and Miller, John S., 3,445,584.
Bracken, Joseph W., Jr.; and Hubble, William S., 3,476,173.
Bracken, Joseph W., Jr.; and Hubble, William S., 3,482,622.
Brady, Laurence M.; and Lindgren, Milton F., 3,433,100.
Brandes, Roy H., 3,466,867.
Brandes, Roy H., 3,475,970.
Bratten, Thomas A., 3,455,609.
Bratten, Thomas A.; and Naismith, Thomas D., 3,476,443.
Bremer, Robert D., 3,461,260.
Brewer, Lee M.; and Yonker, John F., 3,421,448.
Bright, James A., 3,455,119.
Bright, James A., 3,476,056.
Brinkman, Thomas J.; Fogt, Thomas H.; Long, George B.; and Whistler, Charles C., Jr., 3,475,829.
Brock, Eugene W., 3,476,975.
Brow, Orville J.; and Jones, Gene T., 3,421,711.
Brown, Arnold; and Taylor, Peter Norman, 3,422,697.
Brown, Norman R.; Martin, Michael J., Jr.; and Stanner, Donald, 3,478,405.
Brucken, Byron L.; and Deaton, Homer W., 3,473,638.
Brucken, Byron L., 3,482,298.
Buchwald, Robert M., 3,473,399.
Buchwald, Robert M., 3,482,553.
Buckman, Kenneth Ernest, 3,473,301.
Burton, Robert M.; and Harland, Glen E., 3,476,981.
Bush, David L.; and Greb, Robert E., 3,483,097.
Butts, Donald A., 3,436,499.
Butts, Donald A., 3,442,102.
Campbell, Duncan B., 3,477,002.
Campbell, Robert W.; and Heiny, Arza D., 3,445,694.
Canter, James A., 3,461,370.
Carlson, Richard A., 3,469,072.
Carlson, Richard A., 3,476,950.
Carpenter, Keith H.; and Jones, David L., Jr., 3,422,335.
Carpenter, Keith H., 3,422,484.
Carpenter, Keith H., 3,423,026.
Carpenter, Keith H., 3,428,996.
Carpenter, Keith H., 3,458,888.
Cartwright, John N., 3,466,895.
Cassel, Thomas R., 3,468,560.
Cataldo, Roy S., 3,440,657.
Cataldo, Roy S., 3,470,820.
Chalenski, Arthur A., Jr.; and Hughes, Walton, 3,460,591.
Chana, Howard E., 3,442,152.
Chant, Leonard H., 3,445,020.
Christenson, Howard W.; and Livezey, William G., 3,421,596.
Christenson, Howard W., 3,475,903.
Christianson, Wallace A.; and Hart, Jack P., 3,467,174.
Clare, John; and Crary, William G., 3,451,716.
Clark, William B., 3,442,155.
Cline, Carl E., 3,468,105.
Close, Robert A., 3,448,482.
Colautti, Albert J., 3,460,794.
Colautti, Albert J.; and Suszko, Donald H., 3,479,727.
Cole, William C.; Paul, Frank B.; and Wood, Clifton E., 3,459,598.
Colling, Ronald L., 3,468,168.
Collins, George C.; and Lacey, Charles H., 3,456,140.
Conn, Francis Edward, 3,421,533.
Corbin, Russel G., 3,471,115.
Corry, Thomas M.; and Spix, George J., 3,430,123.
Cotney, James D., 3,473,676.
Coulter, James Lee, 3,482,595.
Coutilish, George P., 3,480,271.
Coval, Robert A.; and Schade, Charles W., 3,421,996.
Cox, Dean M., 3,451,474.
Cruz, Jose C.; and Ferrara, Rudolph A., 3,455,602.
Culver, Clyde C., 3,477,768.
Cummins, Donald L.; and Raver, Louis J., 3,427,529.
Cummins, Donald L.; and Stenklyft, Gerald H., 3,456,182.
Custer, Robert E., 3,427,528.
Dafler, Gene L., 3,426,602.
de Claire, James H.; Ragsdale, La Verne B.; and Sprecher, Raymond G., 3,436,049.
De Hart, Arnold O., 3,449,028.
De Hart, Arnold O.; Ferchland, Harold W.; and Lenz, Robert G., 3,475,826.
De Hoff, Edward J., 3,451,509.
De Lorean, John Z., 3,422,806.
De Lorean, John Z., 3,451,719.
De Nagel, Stephen F., 3,442,451.
De Vincent, Patsy, 3,476,897.
Deaton, Homer W., 3,444,882.
Deaton, Homer W., 3,447,007.
Deford, Donald E.; and Rank, Charles R., 3,473,405.
Dega, Robert L., 3,455,564.
Dickenbrock, Frank, 3,430,504.
Dixon, John K.; Addie, Albert N.; McDowall, Charles J., and; and Oestrike, Wilfred C., 3,455,107.
Dolan, Milton D., 3,423,116.
Donath, Siegfried; and Gahler, Werner, 3,465,847.
Doveinis, Juozas; Gionet, Edmond R.; and Wittenberg, William J., 3,466,802.
Doyle, Edward G., 3,425,657.
Drabik, Walter, 3,433,541.
Drabik, Walter, 3,445,706.
Drabik, Walter, 3,471,732.
Drayer, William L., 3,477,699.
Druseikis, Frederick, 3,440,679.
Duca, William J., 3,483,301.
Duer, Morris J., 3,477,312.
Duncan, Norman D., 3,431,225.
Duryee, Harry I.; and Steiner, John C., 3,445,910.
Dutt, Herbert V.; and Fosnaugh, Harland R., 3,440,897.
Edwards, Andrew S., 3,432,876.
Egbert, Earl L.; Goodale, Paul H.; and Stevenson, Paul D., 3,425,220.
Eiger, William H., 3,431,659.
Eiger, William H., 3,431,663.
Eiger, William H., 3,479,757.
Eldred, Roger J.; and Mao, Tzu J., 3,450,615.
Eldred, Roger J., 3,450,616.
Eldred, Roger J.; and Mao, Tzu Jen, 3,473,949.
Elliott, Carl Wayne; and McNeil, James J., 3,421,357.
Emmerson, Calvin W.; and Meginnes, George B., 3,446,480.
Emmerson, Calvin W., 3,471,127.
Evangelista, Ernest L.; and Hewko, Lubomyr O., 3,482,891.
Falge, John H., 3,447,004.
Farley, Nelson E., Jr., 3,449,714.
Faulkner, Alfred H., 3,478,333.
Feles, Nick; and Quinting, Rudi F., 3,437,349.
Fenerty, Michael J.; and Somers, Arthur V., 3,442,668.
Ferchland, Harold W.; and Wallace, Augustine J., Jr., 3,435,528.
Ferchland, Harold W., 3,460,292.
Ferguson, Millard A., 3,459,916.
Ferguson, Millard A., 3,474,214.
Ferrara, Rudolph A., 3,467,425.
Field, Robert O.; and Schamel, Clyde H., 3,433,526.
Finn, Bernard J.; and Mannings, Alan I., 3,482,832.
Fisher, Mark E., 3,425,299.

Flaherty, James H., 3,430,338.
Flaherty, James H., 3,455,000.
Florine, Robert T., 3,444,671.
Flory, Donald M., 3,441,320.
Folsom, Floyd P.; and Tramuta, Salvatore S., 3,460,611.
Forbush, Lothrop M., 3,430,674.
Fosler, John R., 3,422,957.
Fosler, John R.; and Sharpe, Verlos G., 3,476,253.
Frank, Mark H., 3,475,982.
Freiberger, Ronald D., 3,433,130.
Freitag, Glenn W., 3,433,209.
Frig, Gerald E.; Heuston, Philip T.; and Thumudo, Mario F., Jr., 3,425,067.
Frig, Gerald E., 3,440,602.
Fujitsubo, William S., 3,456,245.
Fujitsubo, William S.; and Knopf, Frank A., 3,470,730.
Fuqua, Lloyd T., 3,431,373.
Gambill, Charles C., 3,430,166.
Gambill, Charles C., 3,474,227.
Gaugler, Richard S.; and Siegla, Donald C., 3,444,710.
Geller, Rodger E., 3,476,350.
Gershen, Bernard J., 3,471,747.
Gilchrist, David J., 3,466,914.
Glasford, Edmund J., 3,476,840.
Graham, Donald E., 3,443,182.
Graham, Donald E., 3,446,993.
Gregg, James L., 3,449,673.
Grover, William H., 3,451,372.
Grundman, Richard G.; and Sharpe, Cecil H., 3,477,647.
Guernsey, Robert W.; Ricketts, James M.; and Zeek, Richard M., 3,476,174.
Gunlock, Donald E., 3,475,770.
Guyton, James H.; Lutz, Phillip A.; and Stedry, Edward G., 3,447,088.
Hachtel, Guenter, 3,482,773.
Hagler, Norman R., 3,441,104.
Hall, James E.; Mrlik, Jerry R.; Musser, James G.; and Winchell, Frank J., 3,455,594.
Hanchett, Kenneth R., 3,478,615.
Hanink, Dean K., 3,466,737.
Harland, Glen E., Jr.; and Hanson, Charles G., 3,467,853.
Harland, Glen E., Jr.; Hanson, Charles G.; and Wiechmann, Eldred H., 3,467,854.
Harland, Glen E., Jr.; and Hanson, Charles G., 3,469,168.
Hart, Jack P.; and Tharp, James W., 3,456,717.
Harvey, Douglas J., 3,455,375.
Hawkins, Cyril M.; and Richardson, Truman R., 3,422,703.
Hawkins, Cyril M.; and Richardson, Truman R., 3,430,522.
Hawkins, Cyril M., 3,449,926.
Heeb, Bruce E., 3,455,612.
Heffner, Francis E., 3,458,994.
Heffner, Francis E.; and Brandes, Roy H., 3,458,995.
Helms, Harold E., 3,478,816.
Herbst, Darwyn L.; and Ewing, Keith E., 3,477,055.
Hewko, Lubomyr O., 3,475,993.
Hoffman Donald J., 3,458,923.
Hohl, Willard R.; and Korpak, Charles, 3,459,541.
Hoover, Charles T., 3,460,706.
Horvath, Robert A., 3,433,535.
Houser, Robert L., 3,480,149.
Huber, Joel E., 3,468,776.
Hughel, Thomas J., 3,466,193.
Hughes, Walton, 3,425,464.
Hughes, Walton, 3,430,667.
Hulsing, Kenneth L., 3,448,664.
Hulten, Richard E., 3,449,980.
Hulten, Richard E., 3,472,541.
Humphreys, Terence Arthur George, 3,469,129.
Huntzinger, Gerald O., 3,443,112.
Ilkka, Gust A.; and Slates, Robert V., 3,426,097.
Jackson, George W., 3,482,863.
Jacobs, James W., 3,433,030.
Jacobs, James W.; and Williamitis, Victor A., 3,451,227.
Jacobs, James W., 3,475,920.
Jamerson, Frank E.; Leffert, Charles B.; and Rees, David B., 3,480,803.
James, Kenneth F.; and Joyce, Alexander H., 3,422,663.
Janke, Fritz, 3,467,221.
Jirik, James J., 3,436,982.
Johnson, Douglas, 3,477,228.
Johnson, Kenneth O., 3,451,654.
Johnson, Roger W., 3,476,676.
Johnstone, Theodore H.; and Meyer, Barthold F., 3,483,337.
Jones, David L., Jr., 3,421,173.
Jones, David L., Jr., 3,448,481.
Jones, David L., Jr., 3,448,483.
Jones, David L., Jr., 3,482,696.
Joyce, Alexander H.; and Pirrello, Antonio, 3,468,784.
Kanaan, Ziyad R., 3,425,914.
Kell, Nathaniel B., 3,475,994.
Keller, Robert C.; and Brunsdon, William E., 3,466,942.
Kemp, Clarence G., 3,478,476.
Kennedy, Robert D., 3,456,235.
Kesling, Keith K., 3,426,110.
Kesling, Keith K., 3,441,331.
Kesling, Keith K.; and Watt, Roy E ., 3,455,061.
Kesling, Keith K., 3,467,741.
Kesten, Patrick N.; and Schwartzwalder, Karl, 3,451,841.
Kimmel, William K., 3,446,015.
Kind, Ronald W., 3,466,928.
King, Jack B., 3,444,847.
Kirk, Thomas E., 3,469,175.
Kirk, Thomas E., 3,483,458.
Kleinstuck, Werner; and Heger, Klaus, 3,433,019.
Klove, Edwin H., Jr.; and Noll, James L., 3,423,117.
Kobrehel, Peter M., 3,475,933.
Koistinen, Donald P., 3,461,002.
Krieg, Thomas J.; and Kapp, Gerald E., 3,436,989.
Kwapisz, Raymond A., 3,421,957.
La Boda, Mitchell A., 3,421,987.
La Boda, Mitchell A., 3,429,791.
La Flame, Frank E.; and Mac Farland, Gordon F., 3,425,355.
Lagonegro, Paul R., 3,440,966.
Lanning, Harold W.; and Williams, Alfred J., Jr., 3,468,775.
Le Masters, Paul D., 3,477,022.
Leffert, Charles B., 3,455,781.
Leguen de Lacroix, George Rancliffe Jehan Eugene, 3,466,943.
Lemen, William T., 3,442,053.
Leonard, Paul L., 3,430,073.
Leshinsky, Leonard J., 3,430,993.
Levy, Irving M.; and Whelan, James E., 3,439,201.
Lewis, Donald B., 3,459,163.
Licata, Joseph P.; and Tucker, Frederick T., 3,449,559.
Livezey, William G., 3,425,296.
Livezey, William G., 3,470,769.
Logan, John L., 3,483,413.
Lohr, Thomas E., 3,421,390.
Lund, Johan, 3,469,148.
Lusted, Arthur Wyndham, 3,482,465.
Lyon, David M., 3,446,271.
Mace, Arthur B., 3,482,542.
Mack, Kenneth J., 3,431,157.
Magyar, Joseph J., 3,429,153.
Makinen, John P., 3,451,720.
Mann, Leonard J.; and Williamitis, Victor A., 3,482,413.
Manning, Donald L., 3,477,738.
Mantel, Edward R.; Vigor, Charles W.; and Iwankovitsch, Stephen W., 3,479,731.
Marquis, Donald Peter, 3,476,419.
Martyniuk, Ernest T., 3,476,547.
Massoll, Stanley R.; and Roper, Donald G., 3,435,200.
Mayer, William J.; Krause, Douglas P.; Lange, Walter H.; and Moore, Caleb P., 3,471,696.
Mc Greary, Charles H., 3,477,311.
Mc Lellan, David R., 3,469,652.
McDonald, John W., 3,433,292.
McHattie, Robert Howard; and Greening, Peter Douglas, 3,450,117.
McLean, Robert F., 3,470,827.
McPeek, William T.; and Lynch, Arthur E., 3,451,262.
Meador, Jay D., 3,451,268.
Mercer, Robert L., 3,468,486.
Metzger, Robert W., Jr., 3,459,355.
Meyers, Willis G.; and Bailey, Robert A., 3,473,813.
Miller, Donald D., 3,471,661.
Miller, Donald G.; and Singleton, Richard H., 3,486,833.
Miller, James L., 3,432,938.
Moody, Floyd O., 3,436,503.
Mooney, James J., Jr.; and Smith, Marion D., 3,426,621.
Moorman, Cletus L., 3,477,681.
Mummert, Arnold D., 3,466,950.
Musial, Joseph A.; and Vigor, Charles W., 3,460,366.
Musser, James G., Jr.; and Boehm, Benjamin F., 3,422,918.
Nelson, Robert E., 3,448,640.
Nelson, Robert E.; Green, Russell D.; and Sanders, Robert K., 3,482,396.
Newill, William J., 3,466,477.
Newman, Stanley F.; Dion, Gerald H.; and Cwycyshyn, Walter, 3,441,691.
Nichols, Charles A.; Joyce, Alexander H.; Gardner, Charles W.; and Fletcher, William A., 3,455,371.
Nigh, Carl L., 3,433,539.
Noirot, Michel; and Quatredeniers, Claude, 3,479,928.
Nolta, James P.; and Schubring, Norman W., 3,483,447.
Orlando, Vincent A., 3,430,173.
Osborn, William F., Jr.; and Soder, Karl G., 3,466,871.
Packett, Marvin A., 3,466,803.
Pansing, Nelson J., 3,423,572.
Paulson, Donald C., 3,483,288.
Peeples, Denny L., 3,478,782.
Percival, Worth H., 3,477,226.
Petersen, Gilbert L., 3,440,836.

Pettigrew, William S., 3,442,688.
Phelps, Charles W.; Morgan, Bert M.; and Buck, Ronald F., 3,436,626.
Phillips, Ronald L., 3,455,407.
Phillips, Vaughan Mansel, 3,476,280.
Phillips, William V., 3,433,094.
Pietrzak, Joe P., 3,423,061.
Pietrzak, Joe P., 3,466,890.
Pietrzak, Joe P.; and Strahan, Robert M., 3,475,921.
Pietrzak, Joe P., 3,480,251.
Pigeon, Dale W.; and Root, Walter C., 3,477,046.
Pirrello, Antonio; and Sproles, John D., 3,429,423.
Pleska, Paul Lyndhurst, 3,426,620.
Plume, Robert W., 3,467,822.
Podwys, Stanley, 3,460,865.
Pollak, Walter, 3,422,572.
Pollock, Samuel C., 3,428,995.
Pollock, Samuel C., 3,444,949.
Poole, Ronald Robertson, 3,446,881.
Poole, Ronald Robertson, 3,473,766.
Prance, Stanley R.; and Merica, Franklin E., 3,450,465.
Pritchard, Paul B., 3,476,228.
Proffer, Carl W., 3,437,158.
Raby, Dallas J., 3,476,075.
Rademacher, Gustav F., 3,433,515.
Rademacher, Gustav F., 3,434,012.
Ranft, Ernst L., 3,482,562.
Raver, Louis J.; and Shaw, Maurice V., 3,443,197.
Reese, Elmer E., 3,421,174.
Rehfeld, Frederick L. J., 3,482,766.
Resseguie, Robert E., 3,451,270.
Riccio, Donald R., 3,451,736.
Riddel, John W., 3,430,336.
Riddel, John W.; and Schwyn, Raymond E., 3,469,224.
Riddel, John W., 3,479,875.
Riehl, Wilhelm, 3,430,977.
Ristau, Theodore F., 3,476,345.
Robbins, Samuel B., 3,479,478.
Roehrs, Guenter W., 3,444,719.
Rohde, Robert P., 3,437,264.
Rohde, Robert P., 3,437,265.
Rood, Gerald L., 3,451,651.
Roode, Melvin V.; and Marlow, James F., 3,421,969.
Ross, John D., 3,429,585.
Rossiter, William A., 3,421,342.
Rucins, Erik H.; and Guernsey, Robert W., 3,476,094.
Salera, Edmond A., 3,443,160.
Salihi, Jalal T.; and Spix, George J., 3,471,764.
Sampatacos, Peter M., 3,482,296.
Sand, Darrel R., 3,473,636.
Sandor, Bela, 3,455,592.
Sandor, Bela, 3,467,415.
Sandor, Bela, 3,469,042.
Sattler, Walter J., 3,445,801.
Saunders, Orson V.; and Benasutti, Louis D., 3,445,025.
Schaaf, Henry W., 3,479,081.
Schaefer, Robert H., 3,433,098.
Schaefer, Robert H., 3,435,712.
Schaefer, Robert H., 3,459,071.
Schaeffer, Marvin G.; and Hays, William A., 3,437,776.
Schamel, Clyde H., 3,475,986.
Schipke, Robert N., 3,482,584.
Schomer, Raymond A., 3,445,621.
Schroeder, Royal E., 3,476,904.
Schuler, Robert K., 3,483,392.
Schwartzwalder, Karl; and Berg, Morris, 3,451,860.
Schwing, Richard C., 3,475,917.
Seigel, Seymour; and Shaffer, Edwin S., 3,425,672.
Shakespear, Horacio, 3,482,656.
Sheldrake, Leonard J.; and Mullen, Jerrold L., 3,449,654.
Shellhause, Ronald L., 3,478,517.
Shier, Richard K., 3,425,514.
Simon, Ivan, 3,465,598.
Sisson, Kenneth O., 3,425,559.
Skelley, John W.; and Grandel, Leonard F., 3,433,088.
Skinner, Kenneth R., 3,433,536.
Skinner, Kenneth R.; and Vickery, Monte L., 3,447,130.
Skinner, Kenneth R.; and Clayton, David P., 3,447,131.
Smale, Charles H., 3,442,455.
Smith, George R., 3,466,947.
Smith, Lowell F.; and Widmoyer, George A., 3,421,383.
Sokol, Robert W.; and Neal, Lonnie G., 3,475,975.
Somers, Arthur V., 3,423,216.
Sprecher, Raymond G., 3,477,309.
Stapleton, Thomas T., 3,449,742.
Stedfeld, Rowland L., 3,429,594.
Stedfeld, Rowland L., 3,441,695.
Stedfeld, Rowland L., 3,476,133.
Stein, Frank S., 3,433,676.
Stella, Leo, 3,455,615.
Stevens, Derek Norman, 3,449,966.
Stewart, John A., 3,449,737.
Stimpson, Flave F., 3,449,978.
Stivender, Donald L., 3,422,803.
Stivender, Donald L., 3,470,857.
Stocks, Harry Ronald; and Gladstone, Dennis John, 3,444,947.
Stump, Gerald R., 3,450,388.
Swift, Michael W., 3,436,516.
Tarter, Ralph E., 3,421,488.
Templin, Jackson R., 3,427,477.
Templin, Jackson R.; and Zickel, Thomas A., 3,460,754.
Tennenhouse, Gerald J., 3,423,377.
Tennenhouse, Gerald J., 3,423,380.
Thiessen, Elmer E.; Drabik, Walter; and Stigler, Willard R., 3,449,609.
Thomas, Paul A., 3,480,941.
Thompson, Douglas K.; and Allen, Roy, 3,473,477.
Thompson, Herbert G., 3,440,760.
Thompson, William B., 3,433,127.
Tipton, Donald L., 3,449,601.
Tipton, Donald L., 3,480,804.
Trible, Clayton J.; and Fletcher, William A., 3,456,088.
Trimble, Philip K., 3,466,933.
Trulson, Frederick J., 3,483,544.
Tuck, Robert M., 3,426,622.
Tuck, Robert M., 3,433,095.
Tuck, Robert M.; and Fisher, Mark E., 3,433,096.
Turner, David W.; and Morrow, Thomas W., 3,421,227.
Ulics, George, 3,446,507.
Vahle, Ronald W., 3,441,857.
Valus, James K., 3,479,906.
Van Gorder, Jack H., 3,421,608.
Van House, Robert M.; and Flory, Donald M., 3,422,933.
Van House, Robert M., 3,422,935.
Van Vliet, Lyman B., Jr., 3,439,971.
Van Vliet, Lyman B., Jr.; and Siebert, John N., Jr., 3,471,235.
Vander Haagen, Gary A., 3,471,709.
Varterasian, John H.; and Ek, C. Harold, 3,431,498.
Voorhies, Donald A., 3,480,530.
Wagle, Joseph A., 3,435,617.
Wagle, Joseph A., 3,483,037.
Walker, Frank H.; and Davis, Carlisle R., Jr., 3,466,869.
Wall, Earle R., Jr., 3,448,793.
Wallis, Rolland B., 3,482,457.
Walter, Richard C., 3,435,886.
Webbere, Fred J.; and Williams, Robert G., 3,433,284.
Weisgerber, Thomas W., 3,476,136.
Weiss, Irwin K., 3,479,051.
Werth, John J.; and Lake, David P., 3,455,744.
West, Charles E., Jr.; and Schmidt, Jack W., 3,475,992.
White, Robert L., 3,477,739.
Widmer, Paul, 3,476,430.
Wiechec, Walter J., 3,458,927.
Wight, Robert D., 3,470,760.
Williams, Lewis E., 3,476,021.
Williams, Russell C., 3,475,840.
Winchell, Frank J.; and Mrlik, Jerry R., 3,425,215.
Witzel, Thomas A., 3,449,827.
Wobrock, Marvin T., 3,429,412.
Wolters, Richard H., 3,455,456.
Wonn, Quinby E., 3,448,767.
Woodling, Larry R., 3,422,320.
Wortman, Donald E.; Norton, Barry W.; and Scheibe, Elias W., 3,450,228.
Yokawonis, Anthony G., 3,436,244.
Zechin, Thomas A., 3,469,073.
Ziegler, Eugene R., 3,449,785.
Ziegler, Eugene R., 3,454,977.
Ziegler, John Richard, 3,460,038.
Zinnkann, Kurt, 3,473,844.

General Numismatics Corporation: *See—*
Segel, Joseph M.; and Hales, William E., 3,448,850.

General Packets, Inc.: *See—*
Helms, Jan, 3,429,718.
Helms, Jan, 3,456,423.

General Plastics Corporation: *See—*
Richter, Charles W., III; and Erlewine, Richard H., 3,431,409.

General Pneumatics Corporation: *See—*
Crane, Michael, 3,481,149.

General Precision Inc.: *See—*
Bleicher, Irving, 3,437,815.
Conant, Theodore A., Jr., 3,473,163.
Evans, John L., 3,420,110.
Morris, David, 3,437,912.
Mushinsky, Albert, 3,437,816.
Paradise, Ronald Y., 3,453,548.
Prill, Robert S.; Masel, Marvin; and McKenna, Joseph V., 3,438,026.
Riordan, Hugh E., 3,431,934.
Riordan, Hugh E.; Weisbord, Leon; and Paros, Jerome M., 3,465,597.
Stahle, Howard L., 3,422,406.

General Precision Systems Inc.: *See—*
Bose, Norman J., 3,426,346.
Buell, Heinz; and Rubin, Jack, 3,430,238.
Buell, Heinz; Fiore, John M.; Marino, Louis S.; and Rubin, Jack, 3,430,239.
Burgis, Clare N.; and Kakuda, Roy Y., 3,440,644.
Evans, John L., 3,420,111.
Fuller, Richard H.; Tu, Ju C.; and Worthy, Robert M., 3,435,423.
Gamertsfelder, George R., 3,430,236.
Grafstein, Daniel, 3,440,101.
Hubka, Theodore, 3,427,615.
Laermer, Lothar, 3,453,611.
Linsley, Clarence R., 3,422,412.
Ludwig, Urban W., 3,439,982.
O'Regan, Charles P., 3,430,083.
Oesterle, Adolph G., 3,427,607.
Pollack, Howard Merrill, 3,424,010.
Putterman, Harry, 3,428,958.
Putterman, Harry, 3,432,834.
Remington, Richard C.; and Buhler, Eugene H., 3,442,023.
Schwartz, Leonard, 3,423,752.
Scipione, Alfred S., 3,422,223.
Smith, Edgar J.; and Barnes, Lell E., 3,434,132.
Soughworth, Hamilton, Jr.; and Stiles, John C., 3,440,888.
Stiles, John C., 3,452,608.
Stiles, John Callender, 3,427,828.
Williamson, Robert R., 3,452,360.
General Processing Corporation: *See—*
Gibson, Clyde E.; and Peterson, Don M., 3,446,520.
General Radio Company: *See—*
Frank, Richard W.; and Partridge, Gordon R., 3,422,422.
MacKenzie, Thomas E.; and Sinclair, Donald B., 3,479,587.
Partridge, Gordon R., 3,426,187.
Skilling, James K., 3,435,366.
General Refractories Company: *See—*
Farrington, Grant M., Jr.; Stein, Joseph L.; and Treffner, Walter S., 3,425,852.
McShane, Philip C., 3,436,291.
General Research Inc.: *See—*
Simjian, Luther G., 3,428,948.
Simjian, Luther G., 3,441,714.
General Safety, Inc.: *See—*
Cleveland, Floyd M., 3,425,165.
Cleveland, Floyd M.; and Balma, Peter, 3,439,898.
Cleveland, Floyd M., 3,480,242.
General Signal Corporation: *See—*
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P., 3,423,733.
Auer, John H., Jr.; and Frielinghaus, Klaus H., 3,441,905.
Auer, John H., Jr., 3,445,637.
Auer, John H., Jr.; and Huffman, Jerry P., 3,474,400.
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P., 3,482,208.
Barker, William M., 3,483,518.
Brockman, Lyle, 3,422,262.
Cary, Francis H., 3,429,406.
Frielinghaus, Klaus H.; and Smith, Willis R., 3,449,729.
Genz, Roland L.; and Williams, Samuel G., 3,435,615.
Genz, Roland L., 3,459,219.
Haner, Robert B., Jr.; Sibley, Henry C.; Sutton, Paul C.; and Pettitt, Walter G., 3,435,223.
Hughson, J. Donald; and Schwab, Carl E., 3,482,046.
Jennings, Lyston C.; and Spooner, Howard C., 3,431,857.
Kormos, Kalman, 3,463,931.
Marietta, Walter E., 3,482,524.
McCauley, Donald R., 3,435,406.
Prsson, Sen I., 3,435,405.
Reich, Simon, 3,432,654.
Rice, Orval L.., 3,477,347.
Rue, Robert W., 3,463,187.
Silva, John R.; and Turtle, Quentin C., 3,465,276.
Smith, Willis R.; Frielinghaus, Klaus H.; and Wetmore, Arthur W., 3,449,717.
Turtle, Quentin C., 3,452,264.
Weisenbach, Charles O., 3,443,379.
Wetmore, Arthur W., 3,471,689.
Wilcox, Clinton S.; and Wormsbecher, Roelof P., 3,441,731.
Wilcox, Clinton S., 3,482,090.
Wrege, Warren R., 3,469,091.
General Sportcraft Company Limited: *See—*
Edelson, Kenneth J., 3,465,364.
General Standard Company: *See—*
Hasten, Erwin J., Jr.; and Reed, William B., 3,437,341.
General Steel Industries, Inc.: *See—*
Lich, Richard L., 3,427,993.
Lich, Richard L., 3,447,483.
Lich, Richard L., 3,451,356.
Lich, Richard L., 3,452,684.
Lich, Richard L., 3,455,251.
Lich, Richard L., 3,455,252.
Sproul, James D., 3,429,721.
Stein, Robert E., 3,447,484.
General Steel Products, Inc.: *See—*
Mizelle, Ned W., 3,464,736.
General Strapping Company: *See—*
Harrison, James, 3,440,796.
General Technologies Corporation: *See—*
Milewski, John V., 3,476,641.
Shyne, James J.; and Milewski, John V., 3,421,851.
Shyne, James J.; Milewski, John V.; and Smith, Charles B., 3,421,862.
General Telephone & Electronics Laboratories, Incorporated: *See—*
Baczewski, Alexander; and Bracco, Donato J., 3,440,471.
Baird, Donald H.; and Natansohn, Samuel, 3,440,169.
Brecher, Charles; Lempicki, Alexander; and Samelson, Harold, 3,454,901.
Buhrer, Carl F., 3,435,229.
Buhrer, Carl F., 3,440,424.
Buhrer, Carl F.; and Fowler, Vernon J., 3,458,247.
Bulan, Edward P.; and Kober, Frederick P., 3,484,346.
Dymon, Joseph J., 3,421,037.
Fowler, Vernon J., 3,429,641.
Geller, William; and Hillman, Kurt, 3,423,631.
Geller, William, 3,434,003.
Geller, William; and Hillman, Kurt, 3,466,496.
Heller, Adam, 3,466,568.
Lefever, Robert A.; Chang, Nien-Chih; White, Robert L.; and Wickersheim, Kenneth A., 3,454,899.
Natansohn, Samuel, 3,457,179.
Natansohn, Samuel, 3,487,025.
Palilla, Frank C.; and Tomkus, Maija R., 3,481,884.
Renkowitz, Donald, 3,435,384.
Saalborn, Otto E., 3,484,706.
Steinitz, Robert, 3,441,777.
Stone, Samuel M., 3,431,418.
Yando, Stephen, 3,439,416.
General Time Corporation: *See—*
Anderson, Wilmer C.; and Rennie, Frank P., 3,421,024.
Anderson, Wilmer C., 3,424,980.
Anderson, Wilmer C., 3,425,053.
Anderson, Wilmer C.; and Firestone John H., 3,451,052.
Anderson, Wilmer C., 3,461,428.
Badovinac, Matthew; and Broviak, Frank P., 3,466,506.
Bosman, Edward T., 3,469,152.
Cielaszyk, Edward F., 3,443,375.
Cielaszyk, Edward F., 3,461,665.
Cofoid, Robert D., 3,465,784.
Cofoid, Robert D., 3,478,184.
Danz, Ellworth R.; and Goodwin, Clarence J., 3,430,906.
de Koster, Heinz A.; and Ingenito, Michael J., 3,466,498.
Frey, Hubertus G.; and Cielaszyk, Edward F., 3,451,272.
Frey, Hubertus G., 3,452,538.
Frey, Hubertus G., 3,478,507.
Goodwin, Clarence J., 3,430,498.
Gratrix, Alfred E., Sr.; and Earls, David E., 3,430,222.
Heermans, Charles J., 3,441,820.
Kolodziej, Walter F., 3,440,813.
Kueffer, Philippe G., 3,435,609.
Kueffer, Philippe G., 3,435,610.
Lundin, Robert S., 3,422,253.
Lundin, Robert S.; and Wallentowitz, Klaus D., 3,453,500.
Lundin, Robert S.; and Bosman, Edward T., 3,466,457.
Morrison, David; and Robinson, Ralph C., 3,485,968.
Pickering, Norman C., 3,481,520.
Preiser, Ralph H.; Goodwin, Clarence J.; Emerson, Frank W.; and Metcalf, Stanley, 3,460,388.
Regner, Edward G.; and Lundin, Robert S., 3,447,008.
Reimann, Robert L., 3,440,814.
Reis, John Crittenton; Sommer, Bernard Irving; and Ennis, Thomas E., 3,431,510.
Robinson, Ralph C.; and Morrison, David, 3,474,617.
Schroeppel, John H.; and McGaughey, Raymond L., 3,435,184.
St. Clair, Donald R., 3,421,442.
St. Clair, Donald R.; and Redfield, William H., 3,446,178.
St. John, Richard C., 3,435,766.
Stellwagen, Frank William, 3,469,131.
Verde, Charles D., 3,425,212.
Wallentowitz, Klaus D., 3,457,464.
Wallentowitz, Klaus D., 3,484,656.
Yagusic, George J., 3,436,607.
General Tire & Rubber Company, The: *See—*
Belner, Robert J., 3,427,334.
Butler, Eugene B.; Cardis, Donald R.; and Schick, Harold P., 3,446,686.
Connell, Balfour Y., 3,422,733.
Durst, Richard R.; and Phillips, Wendell O., 3,463,743.
Elmer, Otto C.; and Duncan, Joe S., 3,471,423.
Folsom, Allan G.; and Perron, Peter J., 3,463,687.
Grover, Horace N.; and Sommer, John G., 3,476,599.
Hanley, Albert J., 3,440,185.
Henley, Virgil E., 3,444,030.

Henley, Virgil E., 3,475,254.
Henley, Virgil E., 3,476,633.
Herold, Robert J., 3,427,335.
Herold, Robert J., 3,442,876.
Kalafus, Edward F.; and Wise, Richard M., 3,449,200.
Kreider, Robert W., 3,479,313.
Mann, Alex, 3,455,756.
Meincke, Edmund R., 3,468,833.
Milgrom, Jack, 3,427,256.
Miller, Harvey E., 3,424,447.
Reinbold, Emmett B., 3,421,565.
Robertson, Martin N., 3,442,746.
Sommer, John G., Jr., 3,457,215.
Tatter, John W., 3,481,602.
van Gils, Gerard E., 3,437,122.

General Trailer Company, Inc.: *See—*
Schmidt, Kenneth J., 3,485,505.

General Trustee Company, Inc., The: *See—*
Monnier, Robert; and Grandjean, Philippe, 3,442,622.

Generale Alimentaire S.A.: *See—*
Hureau, Jacques, 3,473,986.
Labarre, Maurice, 3,459,315.

Generay-Generale Radiologica S.p.A.: *See—*
Rossi, Guido, 3,441,266.

Genesco, Inc.: *See—*
Glassman, Joel; and Turner, Newton C., 3,481,054.
Jonas, Gilbert F., 3,442,032.
Jonas, Gilbert F., 3,467,976.
Jonas, Gilbert F., 3,481,820.
Rice, James D., 3,432,928.

Genest, Leonard J.: *See—*
Klayman, Arnold I.; and Genest, Leonard J.,3,461,371.

Genevay, Noel C. Rotary orthoptic instrument. 3,433,219, 3-18-69, Cl. 128-76.5

Geng, Heinz Josef: *See—*
Babl, Albert; and Geng, Heinz Josef,3,473,894.

Genge, Colin A., to Hercules Incorporated. Adsorbent refining of organic compounds. 3,478,009, 11-11-69, Cl. 260-97.7

Gengewald, Karl H. Carrier bag. 3,468,470, 9-23-69, Cl. 229-54.

Geni Wigs, Inc.: *See—*
George, Robert A., 3,447,726.

Genin, Robert I., to Child Guidance Toys Inc. Rolling carousel. 3,423,873, 1-28-69, Cl. 46-114.

Genin, Robert I., to Child Guidance Toys Inc. Toy railroad track assembly. 3,438,145, 4-15-69, Cl. 46-216.

Genin, Robert I., to Guild Guidance Toys Inc. Creative musical mechanism. 3,451,301, 6-24-69, Cl. 84-102.

Genin, Robert I., to Child Guidance Toys Inc. Rolling music box. 3,455,051, 7-15-69, Cl. 46-111.

Genin, Robert I., to Child Guidance Toys Inc. Musical typewriter. 3,479,918, 11-25-69, Cl. 84-404.

Genin, Robert, to Child Guidance Toys Inc. Toy parking garage. 3,457,668, 7-29-69, Cl. 46-12.

Genin, Robert, to Child Guidance Toys Inc. Multi-level toy parking garage. 3,483,653, 12-16-69, Cl. 46-12.

Genke, Richard M.; and Harding, Philip A., to Bell Telephone Laboratories, Incorporated. Wiring configuration for 2-wire coincident current magnetic memory. 3,484,763, 12-16-69, Cl. 340-174.

Gennaro, Gianni: *See—*
Donato, Luigi; Gennaro, Gianni; and Giordani, Roberto,3,428,805.

Genofsky, John J.: *See—*
Zollinger, Richard J.; and Genofsky, John J.,3,475,691.

Genois, Edmond R.: *See—*
Childers, Thomas W.; and Genois, Edmond R.,3,444,927.
Childers, Thomas W.; Genois, Edmond R.; and Brasier, Charles A.,3,464,495.

Genois, Edmond R.; and Childers, Thomas W., to Esso Production Research Company. Running of elongated pipe in a well. 3,464,496, 9-2-69, Cl. 166-315.

Genoud, Jean, to Ets. Genoud & Cie Etablissements Genoud & Cie. Lighter. 3,423,160, 1-21-69, Cl. 431-276.

Genovese, David: *See—*
de Robertis, Joseph; and Genovese, David,3,470,334.

Genovese, Eugene R.: *See—*
Chang, Hsu; and Genovese, Eugene R.,3,461,438.

Genovese, Joseph A.: *See—*
Rabinow, Jacob; and Genovese, Joseph A.,3,472,506.

Genser, Moshe. Teaching equipment desk. 3,471,947, 10-14-69, Cl. 35-60.

Genset Corporation: *See—*
Buff, Fred; Gross, Joseph Idadore; and Healy, Lawrence William, 3,477,898.

Gensler, Jay Don, to Dow Chemical Company, The. Production of low density rigid shapes. 3,420,682, 1-7-69, Cl. 106-40.

Genta, Guido R., to American Aniline Products, Inc. Anthraquinone dyestuff manufacture. 3,426,047, 2-4-69, Cl. 260-376.

Genta, Guido R., to American Aniline Products, Inc. Coloring of aromatic polyester fibers with anthraquinone dyestuffs. 3,428,411, 2-18-69, Cl. 8-39.

Genta, Guido R., to American Aniline Products, Inc. Thioarylloxyanthrimides. 3,439,002, 4-15-69, Cl. 260-367.

Gentex Corporation: *See—*
Aileo, Jackson A., 3,447,162.
Aileo, Jackson A., 3,456,263.
Aileo, Jackson A., 3,470,564.
Aileo, Jackson A., 3,477,067.
Frieder, Leonard P.; Green, Clarks; and Luisada, August G., 3,425,071.
Frieder, Leonard P.; and Baker, Edgar G., 3,445,868.

Gentil, Albert. Method and apparatus for evaporating volatile solutions of air treatment substances. 3,482,929, 12-9-69, Cl. 21-53.

Gentile, Anthony L.: *See—*
Andres, Frank H.; and Gentile, Anthony L.,3,428,438.

Gentile, Charles J. Pool ball. 3,439,917, 4-22-69, Cl. 273-59.

Gentili, Bruno: *See—*
Horowitz, Robert M.; and Gentili, Bruno,3,429,873.

Gentilini, Augusto. Cinema projector for films with single lateral perforation for each frame and with optical compensation of the uniform motion of the film. 3,450,470, 6-17-69, Cl. 352-109.

Gentle, Joe: *See—*
Perrin, William P.; and Gentle, Joe,3,487,275.

Gentles, Robert Paul, to British Hydrocarbon Chemicals Limited, mesne. Particulate silica contacted with a silicic acid solution. 3,425,958, 2-4-69, Cl. 252-458.

Gentry, Bryan R.; and Nichols, John R. Check writing and encoding apparatus and method. 3,450,041, 6-17-69, Cl. 101-90.

Gentry, Charles B., to Granco Equipment, Inc. Transfer mechanism. 3,455,433, 7-15-69, Cl. 198-20.

Gentry, Charles B.; and Scanlon, Robert M., to Granco Equipment, Inc. Ingot heating furnace. 3,484,086, 12-16-69, Cl. 263-6.

Gentry, Hermond G., to Mead Corporation, The. Machine and method for folding an insert. 3,431,826, 3-11-69, Cl. 93-1.

Gentry, Hermond G., to Mead Corporation, The. Correlator apparatus. 3,469,673, 9-30-69, Cl. 198-31.

Gentry, James R.: *See—*
Wiegert, Richard G.; and Gentry, James R.,3,451,267.

Gentry, John W., Jr., to Texas Pipe Line Company, The. Pipeline scraper-passing method and system. 3,428,489, 2-18-69, Cl. 134-8.

Gentry, Larry L.: *See—*
Roesky, Ralph R.; Gentry, Larry L.; and Hopkins, John W.,3,482,410.

Gentry, Martin Butler, Jr.; and Collings, Thomas Guy, to Teal Industries, Inc. Charging circuits. 3,457,489, 7-22-69, Cl. 320-22.

Gentry, Thurmond W. Golf practice device. 3,462,156, 8-19-69, Cl. 273-186.

Gentry, William O.: *See—*
Culpepper, Harold D.; and Gentry, William O.,3,474,022.

Genty, Robert. Apparatus for tilting the orbital plane of a space vehicle. 3,429,526, 2-25-69, Cl. 244-1.

Genz, Roland L., to General Signal Corporation. Regenerative valve plunger. 3,459,219, 8-5-6, Cl. 137-596.2

Genz, Roland L.; and Williams, Samuel G., to General Signal Corporation. Speed regulator for hydrostatic transmissions. 3,435,615, 4-1-69, Cl. 60-53.

Genzabella, Carmen F.; and Wade, Richard C., to Microwave Associates, Inc. Silicon semiconductor with metal-silicide heterojunction. 3,458,778, 7-29-69, Cl. 317-234.

Geo Space Corporation: *See—*
Gundlach, William J., 3,474,880.
Witt, William W.; and Madeley, Paul E., 3,465,295.

Geoffroy, David R., to Coppus Engineering Corporation. Diffuser for a blower. 3,450,339, 6-17-69, Cl. 230-274.

Geoffroy, Jacques, to Charbonnages de France. Installation and method for the treatment at high temperature and cooling of granular or divided solid products utilizing a fluidized layer. 3,427,008, 2-11-69, Cl. 263-21.

Geolograph Company, The: *See—*
Jennings, Clifton C.; and Lankford, William L., Jr., 3,431,780.

Georator Corporation: *See—*
Prange, Raymon A.; and Krasnow, Shelley, 3,445,700.

Georg, Werner; and Rassmann, Christoph, to Gewerkschaft Eisenhutte Westfalia. Bipartite mining planer with intermediate floor cutters. 3,438,679, 4-15-69, Cl. 299-34.

George, Albert C.; George, Irene V.; George, Larry E.; and George, Diane L. Sweater blocking and drying frame. 3,486,669, 12-30-69, Cl. 223-69.

George, D'Arcy R.; Riley, James M.; and Ross, J. Richard, to United States of America, Interior. Method for recovering and producing potassium salts. 3,429,657, 2-25-69, Cl. 23-63.

George, Diane L.: *See—*
George, Albert C.; George, Irene V.; George, Larry E.; and George, Diane L.,3,486,669.

George, Donald: *See—*
Hauck, James; and George, Donald,3,424,852.

George, Edward T.; and Allen, Irving, to Connecticut Scientific Center, Inc. Coffee maker. 3,453,947, 7-8-69, Cl. 99-308.

George, Everett D. Pick breaking apparatus. 3,465,933, 9-9-69, Cl. 225-97.

George, Everett D., to Goodyear Tire & Rubber Company, The. System and method for the manufacture of polyester and the like. 3,487,141, 12v30-69, Cl. 264-175.
George, Gary L. Method of making a cushion covering means. 3,443,294, 5-13-69, Cl. 29-91.1
George, Irene V.: *See—*
George, Albert C.; George, Irene V.; George, Larry E.; and George, Diane L.,3,486,669.
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L., to Little, Arthur D., Inc. Recombination systems for sealed secondary batteries and batteries incorporating them. 3,464,860, 9-2-69, Cl. 136-6.
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L., to Little, Arthur D., Inc. Recombination systems for sealed batteries and batteries incorporating them. 3,470,024, 9-30-69, Cl. 136-6.
George, James R.: *See—*
Cloud, Charles E.; King, Richard G.; and George, James R.,3,478,492.
George, James, to Frequency Control Corporation. Detector for molecular or atomic beam apparatus. 3,433,944, 3-18-69, Cl. 250-41.3
George, Jean-Claude Henri, to Quartz & Silice S.A. Method of making light reflectors. 3,467,511, 9-16-69, Cl. 65-60.
George, John Otto. Medicinal preparation for the treatment of burns and other traumatic wounds. 3,431,340, 3-4-69, Cl. 424-107.
George, Larry E.: *See—*
George, Albert C.; George, Irene V.; George, Larry E.; and George, Diane L.,3,486,669.
George, Nicholas, to California Institute Research Foundation. Light rejection band filter. 3,458,249, 7-29-69, Cl. 350-160.
George, Norman J., to George, P. D., Company, The. Polyamide-imide electrical insulation. 3,428,486, 2-18-69, Cl. 117-218.
George, P. D., Company, The: *See—*
George, Norman J., 3,428,486.
Rinehart, Maynard J., 3,471,589.
George, Paul J., to Goodrich, B. F., Company, The. Condensation polymers of benzimidazolone. 3,480,593, 11-25-69, Cl. 260-77.5
George, Percy F., to Dow Chemical Company, The. Packaged galvanic anodes. 3,441,491, 4-29-69, Cl. 204-197.
George, Peter D. Modular lathes. 3,473,207, 10-21-69, Cl. 29-45.
George, Richard F.; and Knotts, Halford L., to Kaydon Engineering Corporation, The. Ball bearing spacer. 3,455,616, 7-15-69, Cl. 308-199.
George, Robert A., to Geni Wigs, Inc. Frames for supporting wigs during the processing thereof. 3,447,726, 6-3-69, Cl. 223-66.
George, Robert O.: *See—*
Allen, Dee Dexter; and George, Robert O.,3,456,748.
George, Roscoe H.: *See—*
Brown, William C.; George, Roscoe H.; Heenan, Neil 1.; and Wonson, Roger C.,3,434,678.
George, Rudolf: *See—*
Mielke, Johannes; and George, Rudolf,3,461,881.
George, Stephen. Protective record jacket. 3,422,952, 1-21-69, Cl. 206-62.
George, Thomas W.; and Rulison, Richard N., to Celanese Corporation. Method of spinning fibers from a fluid suspension. 3,423,925, 1-28-69, Cl. 57-164.
George, William R. Decorative wooden block surface. 3,438,840, 4-15-69, Cl. 161-38.
Georgelin, Alexandre, to Etablissements L. Faiveley. Oleopneumatic jack with staged structure. 3,426,530, 2-11-69, Cl. 60-54.5
Georges, Louis W., to Firestone Tire & Rubber Company, The. Preparation of tirecord, etc. by two-step treatment using a curable epoxy adhesive and latex. 3,423,230, 1-21-69, Cl. 117-62.2
Georges, Nicholas J.; and Engel, Fred C., to Westinghouse Electric Corporation. Breeder reactor. 3,486,973, 12-30-69, Cl. 176-18.
Georgetti, Richard A.: *See—*
Freedman, Bernard J.; Georgetti, Richard A.; and Tedeschi, William R.,3,420,760.
Georgi, Eugen: *See—*
Hennecke, Rudolf; Brander, Arthur; and Georgi, Eugen,3,465,599.
Georgi, Walter L. Slip clutch. 3,481,160, 12-2-69, Cl. 64-30.
Georgia Kaolin Company: *See—*
Bundy, Wayne M.; and Berberich, Joseph P., 3,477,809.
Georgia Tech Research Institute: *See—*
Keng, Edward Y. H., 3,453,881.
Orr, Clyde, Jr.; and Hendrix, Warren P., 3,458,974.
Georgia Tech Research Institute of Technology: *See—*
Jackson, Thomas W., 3,439,412.
Georgia-Pacific Corporation: *See—*
Alcorn, George B.; and Edmonsond, Frank D., 3,438,895.
Bornstein, Leopold F., 3,471,443.
Bornstein, Leopold F., 3,476,706.
Jespersen, Paul W., 3,437,388.
Jespersen, Paul W., 3,438,589.
Johnson, Waldo O., 3,461,608.
Kim, Chung Sul Youn, 3,438,959.
Kim, Chung Sul Youn, 3,438,960.
Markham, Aaron E.; and Blackmore, Kenneth A. E., 3,476,740.
Simmons, Richard W., 3,447,889.
White, Elwood V., 3,436,204.
Georgiadis, Minas P.; and Humber, Leslie G., to American Home Products Corporation. Thiazolo and thiazino isoquinoline derivatives. 3,455,933, 7-15-69, Cl. 260-289.
Georgian, Vlasios. 6-Methylsulfonylandrostenes. 3,433,786, 3-18-69, Cl. 260-239.5
Georgian, Vlasios; and Kerwin, James F., to Smith Kline & French Laboratories. 6,6-Ethylene corticoids. 3,476,745, 11-4-69, Cl. 260-239.55
Georgian, Vlasios; and Kerwin, James F., to Smith Kline & French Laboratories. 6,6-Ethylene pregnenes. 3,479,342, 11-18-69, Cl. 260-239.55
Geoscience Instruments Corporation: *See—*
Jensen, Elmer W., 3,449,870.
Wenzel, Charles; and Friedman, Howard K., 3,428,059.
Geoscience Ltd.: *See—*
Poppendiek, Heinz F., 3,447,532.
Geotechnical Corporation: *See—*
Brown, Robert F., Jr., 3,444,331.
Geotel Inc.: *See—*
Van Ornum, Delbert G.; Geideman, William A., Jr.; and Muller, Kurt, 3,469,143.
Geppert, Albrecht: *See—*
Magner, Richard; and Geppert, Albrecht,3,476,985.
Geppert, Robert J.: *See—*
Burton, Jean A.; Geppert, Robert J.; Farmer, James L.; and Mathis, Joseph J.,3,430,831.
Gerald, Elizabeth B. Combination book mailing enclosure and book protector. 3,425,617, 2-4-69, Cl. 229-40.
Geram, James R. Golf hole marker. 3,436,077, 4-1-69, Cl. 273-34.
Gerard, Deryck A., to Production Engineering Corporation. Tape punching machine. 3,467,306, 9-16-69, Cl. 234-32.
Gerard, Howard L., to Powell Electric Manufacturing Co. Motor operator for load break switch. 3,475,981, 11-4-69, Cl. 74-143.
Gerard, Jean, to Bauche, Fichet. Strong wall structures. 3,453,974, 7-8-69, Cl. 109-83.
Gerard, Jean, to Fichet-Bauche. Combination lock. 3,473,353, 10-21-69, Cl. 70-305.
Gerard, Milan E., to Rohr Corporation. Sliding vacuum seal for electron beam welder. 3,435,185, 3-25-69, Cl. 219-121.
Gerard, Milan E., to Rohr Corporation. Adaptor type electron beam welding apparatus. 3,485,998, 12-23-69, Cl. 219-121.
Gerard, Milan E.: *See—*
Rush, Hugh M.; and Gerard, Milan E.,3,456,092.
Gerard, Roger Edwin John, to Marconi Company Limited, The. Transistor amplifiers having both current and voltage responsive feedback provisions. 3,440,553, 4-22-69, Cl. 330-28.
Gerard, Thomas J., to Fruehauf Corporation. Method of making axles. 3,453,720, 7-8-69, Cl. 29-480.
Gerard, Victor; and Palomo, Georges, to Commissariat a l'Energie Atomique. Drive mechanism for effecting a vertical rectilineal movement. 3,449,968, 6-17-69, Cl. 74-57.
Gerard, William A., to Westinghouse Electric Corporation. Coaxial magnetron having anode vanes with notches thereon for reducing the frequency of operation. 3,435,285, 3-25-69, Cl. 315-39.77
Gerarde, Horace W. Cholinesterase test. 3,433,712, 3-18-69, Cl. 195-127.
Gerarde, Horace W. Pressure filtration device. 3,463,322, 8-26-69, Cl. 210-455.
Gerarde, Horace W. Pipette assembly having precise quantity of dry stabilized reagent and method of preparing same. 3,464,800, 9-2-69, Cl. 23-259.
Gerardi, Daniel A. Tool for holding and turning a bolt or screw. 3,463,210, 8-26-69, Cl. 145-52.
Gerber & Co., G.m.b.H.: *See—*
Korsch, Alfred, 3,457,740.
Gerber, Heinz Joseph, to Gerber Scientific Instrument Company, The. Fractional step rotary stepping motor and control system therefor. 3,445,741, 5-20-69, Cl. 318-138.
Gerber, Heinz Joseph; and Logan, David J., to Gerber Scientific Instrument Company, The. X-Y plotter. 3,473,009, 10-14-69, Cl. 235-151.
Gerber, Heinz Joseph; and Logan, David Jopson, to Gerber Scientific Instrument Company, The. Device for driving a movable part with precise control over its displacement during movement. 3,422,325, 1-14-69, Cl. 318-18.
Gerber, Heinz Joseph; and Pavone, Robert J., to Gerber Scientific Instrument Company, The. Device for cutting sheet material. 3,477,322, 11-11-69, Cl. 83-71.
Gerber, Howard L.: *See—*
Buck, James G.; Winkless, Robert A.; and Gerber, Howard L.,3,450,856.
Gerber, John W.: *See—*
Stouffer, Ronald D.; and Gerber, John W.,3,446,228.
Gerber, Jurgen; and Fichtner, Friedrich, to Orenstein-Koppel und Lubecker Maschinenbau Aktiengesellschaft. Circuit for hydraulically operable devices, especially hydraulic dredges. 3,478,647, 11-18-69, Cl. 91-411.

Gerber, Loris L.: *See—*
Dabney, Eugene E.; Fields, James R.; Gerber, Loris L.; and Newins, Charles E.,3,456,918.
Gerber, Murray A.: *See—*
Haviland, Girard S.; Gerber, Murray A.; and Stager, Francis W.,3,447,838.
Gerber Products Company: *See—*
Billerbeck, Fred W.; Hing, Francisco S.; and Purvis, George A., 3,429,711.
Duckworth, Leonard J.; Pettinga, Paul V.; and McGowan, Patrick G., 3,471,299.
McGowan, Patrick G.; and Mauger, Robert E., 3,422,679.
Merrill, Ralph K., Jr.; Burnett, Edward N.; and Sparks, Thomas B., 3,439,824.
Nelson, Lloyd A., 3,469,766.
Shoemaker, Kerry S., 3,465,573.
Smith, Carl G.; and Nelson, Lloyd A., 3,447,733.
Gerber, Richard: *See—*
Steinke, Leo; Sohner, Gerhard; Hurst, Kurt; Gerber, Richard; Frimmel, Karl; and Herrmann, Otto,3,486,075.
Gerber Scientific Instrument Company, The: *See—*
Gerber, Heinz Joseph; and Logan, David Jopson, 3,422,325.
Gerber, Heinz Joseph, 3,445,741.
Gerber, Heinz Joseph; and Logan, David J., 3,473,009.
Gerber, Heinz Joseph; and Pavone, Robert J., 3,477,322.
Rich, Leonard G., 3,461,344.
Gerber, Siegfried: *See—*
Erler, Werner G.; and Gerber, Siegfried,3,464,921.
Gerber, William J.: *See—*
Curran, Daniel R.; Gerber, William J.; and Williams, Alfred L. W.,3,423,700.
Gerbracht, Fred. Boat hull construction with outrigger pontoon assembly. 3,450,084, 6-17-69, Cl. 114-66.5
Gerchow, Wilbur R., to Buhr Machine Tool Corporation, mesne. Sectionalized indexing transfer bar for machine tools. 3,486,779, 12-30-69, Cl. 287-103.
Gercke, Ferdinand A.: *See—*
Kissil, Donald; and Gercke, Ferdinand A.,3,474,763.
Gerdau Chemical Corporation: *See—*
Baravalle, Thomas R., 3,458,629.
Gerde, Bernt Hjalmar. Hydrostatically pressurized building foundation. 3,425,175, 2-4-69, Cl. 52-169.
Gerdes, Walter F., to Dow Chemical Company, The. Gas sample injection apparatus. 3,435,661, 4-1-69, Cl. 73-23.1
Gerdes, Walter F., to Dow Chemical Company, The. Analyzer for determination of hydrogen in chlorine or for determination of inerts in chlorine. 3,474,661, 10-28-69, Cl. 73-27.
Gerding, Charles Christian, to Jones & Laughlin Steel Corporation. Billet roughing mill. 3,439,519, 4-22-69, Cl. 72-189.
Gerding, James H., to Honeywell Inc. Means to selectively activate separate recording channels. 3,426,338, 2-4-69, Cl. 340-174.1
Gerding, Thomas J.: *See—*
Trevorrow, La Verne E.; Gerding, Thomas J.; and Steindler, Martin J.,3,482,949.
Gerdman, Sven Konrad. Upright for shelves. 3,468,507, 9-23-69, Cl. 248-243.
Gerek, Gene: *See—*
Bosso, Joseph F.; and Gerek, Gene,3,450,303.
Gerek, Gene, to PPG Industries, Inc. Coating compositions comprising a carboxylic acid amide polymer and a polymer of vinyl fluoride. 3,442,976, 5-6-69, Cl. 260-853.
Gerek, Gene, to PPG Industries, Inc. Apparatus for measuring and controlling film thickness. 3,453,984, 7-8-69, Cl. 118-8.
Gerek, Gene; and Buell, Louis K., to PPG Industries, Inc, Compositions comprising interpolymers of aldehyde modified amides and polyvinylidene fluoride. 3,449,466, 6-10-69, Cl. 260-826.
Geremia, Leo Francis; and Haydon, Arthur W., to Tri-Tech, Inc., mesne. Switch assembly. 3,427,420, 2-11-69, Cl. 200-172.
Gerew, Joseph T.; and Hoeft, Rudolf, to MacInnes, Paul A., Tool Corporation. Glasscutter. 3,461,755, 8-19-69, Cl. 83-12.
Gergle, Richard C.; and Merricks, James A., to Dow Corning Corporation. Polishing cloth. 3,433,667, 3-18-69, Cl. 117-161.
Gerhard, Anton. Wall fasteners. 3,468,091, 9-23-69, Cl. 52-378.
Gerhard Collardin GmbH: *See—*
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf, 3,432,337.
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf, 3,454,407.
Gerhard, Glen C.; and Ing, Smuel W., to General Electric Company. High gain silicon photodetector. 3,436,613, 4-1-69, Cl. 317-234.
Gerhard Mensel Glasbearbeitungswerk: *See—*
Hafner, Walter, 3,453,097.
Gerhard, Sidney, to Burndy Corporation. Electrical connectors for semi-solid conductors. 3,444,507, 5-13-69, Cl. 339-100.
Gerhards, Erich: *See—*
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois,3,431,263.
Gerhardsen, Torvald S., to Simonsen & Mustad A.S. Sonar systems in vessels. 3,426,725, 2-11-69, Cl. 116-27.
Gerhardt, Herbrt W.; and Lynch, Conrad L., to Stanley Works, The. Adhesive for bonding polyethylene to crown caps. 3,445,412, 5-20-69, Cl. 260-23.
Gerhardt, Lester A.; Goerner, Johannes G.; and Powell, Frederic D., to Bell Aerospace Corporation. Self-organizing system. 3,435,422, 3-25-69, Cl. 340-172.5
Gerhardt, Richard E.; and Thurston, Raymond L., to Republic Industrial Corporation. Thread locking device and method. 3,444,915, 5-20-69, Cl. 151-14.
Gerhardt, Robert Frank, to American Can Company. Vinyl resin coating composition suitable for use as a cold set ink. 3,423,215, 1-21-69, Cl. 206-30.4
Gerhardt, Wilfried: *See—*
Feldmann, Klaus; Frank, Klaus; Gerhardt, Wilfried; Schmidt, Paul; and Kandler, Joachim,3,471,595.
Gabler, Hellmut; Gerhardt, Wilfried; and Kandler, Joachim,3,454,498.
Gerhart, Francis J.: *See—*
Williams, Robert E.; and Gerhart, Francis J.,3,457,039.
Gerhart, Gilbert B.: *See—*
Savinese, Stanley J.; and Gerhart, Gilbert B.,3,439,218.
Gerhart, Howard L.; Wismer, Marco; and Prucnal, Paul J., to PPG Industries, Inc. Coating compositions comprising an unsaturated glyceride and a non-rutbery, unsaturated hydro- carbon polymer. 3,442,839, 5-6-69, Cl. 260-23.5
Gerhart, James M.: *See—*
Ruiz, Carl P.; Rider, Benjamin F.; and Gerhart, James M.,3,459,634.
Gerharter, Thomas M.: *See—*
Carlson, Ronald A.; and Gerharter, Thomas M.,3,422,979.
Gerhold, Clarence G.; and Broughton, Donald B., to Universal Oil Products Company. Clathrate separation process. 3,456,028, 7-15-69, Cl. 260-674.
Gericke, Dietmar: *See—*
Ehrhart, Gustav; Gericke, Dietmar; and Ott, Heinrich,3,468,952.
Gerig, John S.: *See—*
Williams, Richard E.; and Gerig, John S.,3,473,127.
Gerik, Alvin R. Warp-free frame members and frame assemblies thereof. 3,445,950, 5-27-69, Cl. 40-155.
Gering, Tibor; Kloiber, Gyorgy; and Lengyel, Zoltan, to Ganz Villamossagi Muvek. Device for the cooling of rotating electrical machines of completely closed design. 3,457,439, 7-22-69, Cl. 310-52.
Geringer, Henry J., to United States of America, National Aeronautics and Space Administration. Induction furnace with perforated tungsten foil shielding. 3,470,304, 9-30-69, Cl. 13-26.
Gerisch, Rudolph F. Article spacing apparatus. 3,469,667, 9-30-69, Cl. 193-40.
Gerke, Merrill D., to United States of America, Navy. Day-night water marker. 3,431,569, 3-11-69, Cl. 9-311.
Gerken, Rudolf: *See—*
Zirngibl, Hans; Gerken, Rudolf; Heine, Heinz; and Weise, Johannes,3,486,846.
Gerlach, Albrecht; Habicht, Manfred; and Richter, Edgar, to International Standard Electric Corporation. Electronic ignition circuit for motor vehicles. 3,465,738, 9-9-69, Cl. 123-148.
Gerlach, Carl J., to FMC Corporation. Method of and apparatus for folding gable ends of packages. 3,457,692, 7-29-69, Cl. 53-3.
Gerlach, Glenn W.; and Paul, Albert E., to Bunker-Ramo Corporation, The. Electrical distribution system. 3,450,948, 6-17-69, Cl. 317-26.
Gerlach, Hans Georg: *See—*
Klopping, Carel Peter; and Gerlach, Hans Georg,3,487,250.
Gerlach, Harold W., to Smith, A. O., Corporation. Corner seal for quick opening electron beam welding chamber. 3,475,583, 10-28-69, Cl. 219-121.
Gerlach, Horst W. A., to United States of America, Army. Wall current amplifier and oscillator. 3,445,778, 5-20-69, Cl. 330-43.
Gerlach, John L.: *See—*
Lutwitzi, Lawrence E.; and Gerlach, John L.,3,423,188.
Gerlach, Leif; and Platt, Eugene C., to Platt Brothers Machine Corporation. Quilting machine. 3,465,697, 9-9-69, Cl. 112-118.
Gerlach, Lester O.: *See—*
Thiele, Tom N.; and Gerlach, Lester O.,3,436,654.
Gerlach, Pierre, to Compagnie Francaise Thomson-Houston-Hotchkiss- Brandt. Electron tube having improved low- impedance cathode connecting means. 3,449,625, 6-10-69, Cl. 315-40.
Gerlach, Pierre, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Electron tube having an improved direct-heated cathode structure. 3,473,073, 10-14-69, Cl. 313-341.
Gerlach, Richard K.; and Lawrence, William H., to National Cash Register Company, The. Magnetic transducer head assembly. 3,480,936, 11-25-69, Cl. 340-174.1
Gerlach, Richard K.; Melnick, Robert A.; and Kimura, Noboru, to National Cash Register Company, The. Binary magnetic recording system. 3,423,744, 1-21-69, Cl. 340-174.1
Gerlach, Willi, to Licentia Patent-Verwaltungs-G.m.b.H. Controllable semiconductor rectifier unit. 3,428,874, 2-18-69, Cl. 317-235.

Gerlack, Richard Z., to Varian Associates. Microwave waveguide waterload employing a quarter wave window transformer. 3,474,360, 10121-69, Cl. 333-22.
Gerland, Heinz; Gotze, Werner; and Jaeschke, Walter, to Siemens Aktiengesellschaft. Method of insulating thin electric conductors, particularly extremely thin copper conductors, with thermoplastic synthetic materials. 3,471,327, 10-7-69, Cl. 117-232.
Gerling, John E., to Litton Industries, Inc. Striping apparatus for highways. 3,472,200, 10-14-69, Cl. 118-5.
Gerling Limited: *See*—
Meredith, Norman Arthur, 3,430,741.
Gerlitz, Frank E., Jr.; and Levis, Calvin E., to Leopold, F. B., Company, Inc. Portable liquid measurement flume. 3,427,878, 2-18-69, Cl. 73-215.
Gerlitz, Reuben A., to Law Blower Company,mesne. Fan inlet shroud. 3,433,403, 3-18-69, Cl. 230-132.
Gerloff, Gunter: *See*—
Volker, Ulrich; and Gerloff, Gunter,3,437,458.
Yolker, Ulrich; Gerloff, Gunter; and Haseloff, Heinz,3,435,927.
Gerlovich, Albert F., to Rheem Manufacturing Company. Apparatus for applying a particulate material to a body. 3,485,207, 12-23-69, Cl. 118-308.
German, Dale F., to Aro Corporation, The. Valved safety speed coupler. 3,423,063, 1-21-69, Cl. 251-149.6
German, Israel Robert; and Chervitz, Melvin. Combined container and detachably mounted roller assembly. 3,463,505, 8-26-69, Cl. 280-79.2
Germani, Dino. Linkless French cuff. 3,419,908, 1-7-69, Cl. 2-123.
Germann, Albrecht: *See*—
Bolza-Schunemann, Hans B.; and Germann, Albrecht,3,452,672.
Germann, Franz. Cleaning device for bowling balls or other spherical objects. 3,451,088, 6-24-69, Cl. 15-97.
Germann, Reimar: *See*—
Buesch, Siegfried; and Germann, Reimar,3,479,496.
Busch, Siegfried; Germann, Reimar; and Kolitsch, Robert,3,452,287.
List, Hans; and Germann, Reimar,3,472,068.
Germann, Reimar; and Wiederwohl, Kurt, to Mobil Oil Corporation, mesne. Frequency multiplication and displacement. 3,471,763, 10-7-69, Cl. 318-171.
Germann, Richard W.: *See*—
Ferretti, August; and Germann, Richard W.,3,444,616.
Germanton, Charles E., to Bell Telephone Laboratories, Incorporated. Combination lock. 3,475,932, 11-4-69, Cl. 70-278.
Germany, Federal Republic of: *See*—
Esslinger, Paul; Winter, Heinrich; and Wolf, Walter, 3,445,920.
Vielstich, Wolf, 3,442,711.
Germer, John A.: *See*—
Dean, Walter B.; and Germer, John A.,3,421,365.
Germer, John H., to United States of America, Atomic Energy Commission. Vented fuel pin. 3,459,636, 8-5-69, Cl. 176-68.
Germerdonk, Rolf, to Farbenfabriken Bayer Aktiengesellschaft. Liquid film evaporator. 3,474,850, 10-28-69, Cl. 159-6.
Germershausen, Raimund, to Rheinmetall G.m.b.H. Disintegrating bullet for practice cartridges for small-arms or automatic weapons. 3,435,769, 4-1-69, Cl. 102-92.7
Germershausen, Raimund, to Rheinmetall G.m.b.H. Method of making disintegrating bodies for use as practice ammunition. 3,463,047, 8-26-69, Cl. 86-23.
Germino, Felix J.: *See*—
Moshy, Raymond J.; and Germino, Felix J.,3,421,519.
Germond, Henry S., IV, to Rex Chainbelt Inc. Adjustable shock absorber. 3,478,846, 11-18-69, Cl. 188-97.
Germond, Philippe; and Dupuy, Gerard, to Commissariat a l'Energie Atomique. Nuclear reactor control rod. 3,481,833, 12-2-69, Cl. 176-86.
Gerner, Robert V., to Phillips Petroleum Company. Corrosion protection. 3,461,918, 8-19-69, Cl. 138-148.
Gerner, Theodore C. Steering bushing assembly. 3,420,586, 1-7-69, Cl. 308-70.
Gerner, Theodore C. Pivotal connection for idler arms. 3,434,763, 3-25-69, Cl. 308-70.
Gernhardt, Gordon G.: *See*—
Miller, Robert D.; and Gernhardt, Gordon G.,3,437,768.
Gerow, Frank J., to Dow Corning Corporation, mesne. Apparatus for treatment of living bodies by fluid immersion. 3,455,299, 7-15-69, Cl. 128-66.
Gerpheide, Burton A., to Hughes Aircraft Company. Flexible multiflat conductor characteristic impedance cable. 3,459,879, 8-5-69, Cl. 174-117.
Gerrans, Alfred W., to Sunsweet Dryers. Method of and apparatus for loading fruits or other articles onto flat trays. 3,422,593, 1-21-69, Cl. 53-35.
Gerrans, Alfred W., to Sunsweet Growers, Inc. Article orienting and spacing device. 3,460,668, 8-12-69, Cl. 198-33.
Gerrard, A. J., & Company: *See*—
Palmleaf, Herbert; Koehler, Albert T.; and Mason, Richard Lewis, 3,483,900.
Gerrard, John Mason, to Union Carbide Canada Limited. Process for manufacturing plastic tubing at high output rates. 3,472,923, 10-14-69, Cl. 264-95.
Gerretz, Paul; and Wagner, Ludwig. Flange connection for pressure conduits. 3,453,010, 7-1-69, Cl. 285-368.
Gerrish, Grenville Bradbury. Oven construction. 3,439,906, 4-22-69, Cl. 263-8.
Gerritsen, Hans G.: *See*—
Gulpen, Nicolaas Joseph H.; and Gerritsen, Hans G.,3,431,247.
Gerritsen, Hans Giovanni; and Hansma, Hendrik, to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Ketone peroxides derived from 3,3,5- trimethylcyclohexanone. 3,449,275, 6-10-69, Cl. 260-22.
Tijssen, Stephanus B.; and Gerritsen, Hans G.,3,472,901.
Gerritsen, Hendrik J., to Radio Corporation of America. Beat frequency holograms. 3,444,316, 5-13-69, Cl. 178-6.5
Gerry, Martin E.: *See*—
Bennett, Donald Perry, Jr., 3,421,323.
Gersch, Josef, to Agfa-Gevaert Aktiengesellschaft. Magazine for motion picture film. 3,455,519, 7-15-69, Cl. 242-71.2
Gersch, Josef; Wiesner, Max; Hoffacker, Franz; Barke, Hans Joachim; Johanns, Heinz; and Kreckeler, Fritz, to Agfa-Gevaert Aktiengesellschaft. Film cartridge and spool and method of attaching film to the spool. 3,481,552, 12-2-69, Cl. 242-71.1
Gersh, Viktor Semenovich: *See*—
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.
Gershen, Bernard J., to General Motors Corporation. Starting circuit and solid state running circuit for high pressure arc lamp. 3,471,747, 10-7-69, Cl. 315-205.
Gershen, Irvin J., to Opticase, Inc. Case for contact lenses. 3,462,301, 8-19-69, Cl. 134-155.
Gershman, Melvin Y.: *See*—
Diemond, Joseph; Gershman, Melvin Y.; and Sundberg, Henry L., Jr.,3,428,969.
Gershon, Milton: *See*—
Townsley, John J.; and Gershon, Milton,3,432,106.
Gershowitch-Cohen, Liuba: *See*—
Greidinger, Dahlia S.; and Gershowitch-Cohen, Liuba,3,454,613.
Gerson, Albert. Photo-offset plate making machine. 3,484,166, 12-16-69, Cl. 355-95.
Gerson, Henry. Marking instrument. 3,475,105, 10-28-69, Cl. 401-260.
Gerson, Herman: *See*—
Santimauro, John F.; and Gerson, Herman,3,483,217.
Gerspach, Wolfram. Step-by-step switch. 3,440,582, 4-22-69, Cl. 335-138.
Gerst, Carl W.: *See*—
Hair, Hugh A.; Roome, Gerard T.; Gerst, Carl W.; Des-Jardins, Edgar E.; and Domick, Edward J.,3,447,143.
Gerst, Paul R. Prefabricated steam generating package. 3,465,726, 9-9-69, Cl. 122-1.
Gerstein, Sidney: *See*—
Rudo, Edward; Gerstein, Sidney; and Smith, Robert G.,3,445,604.
Gerstein, Terry; Perlberg, William; and Schwarz, Milton H., to Revlon, Inc. Thickened hydroxypropyl cellulose compositions. 3,485,915, 12-23-69, Cl. 424-81.
Gerstenberger, Egon, to Automation Industries, Inc., mesne. Strain gage unit and method of applying the gage. 3,428,933, 2-18-69, Cl. 338-2.
Gerstenkorn, Simon: *See*—
Ben Mena, Taoufik; Chabbal, Robert; and Gerstenkorn, Simon,3,475,100.
Gerstenmaier, William J.: *See*—
Copony, Edward L.; and Gerstenmaier, William J.,3,428,786.
Gerstenmier, Harold J.: *See*—
Cecil, Tom A.; Gerstenmier, Harold J.; Hamill, Herbert R.; and Puskar, Victor,3,477,565.
Gerstner, Dieter, to Telefunken Patentverwertungsgesellschaft m.b.H. Aligning method and apparatus. 3,461,566, 8-19-69, Cl. 33-180.
Gerstner, Dieter; Ehlbeck, Heinz-Wilhelm; and Epple, Richard, to Telefunken Patentverwertungsgesellschaft m.b.H. Semiconductor device with an emitter, base and collector region. 3,462,656, 8-19-69, Cl. 317-235.
Gerstner, Ferdinand: *See*—
Fritzweiler, Rupprecht; Heckmaier, Joseph; Gerstner, Ferdinand; Wimmer, Hans; and Winkler, Heinz,3,471,131.
Gertisser, Berthold: *See*—
Callahan, James L.; and Gertisser, Berthold,3,428,674.
Gertler, Eugene I.; and Wood, Stanley J., to Ultronic Systems Corporation. Apparatus for verifying or producing check digit numbers. 3,484,744, 12-16-69, Cl. 340-146.1

Gertner, David: *See—*
Frankel, Max; Gertner, David; Wagner, Daniel; and Zilkha, Albert,3,426,002.
Gertsch, Georges-Albert; and Knoth, Walter, to Micafil A.G. Protective system for capacitive voltage transformers. 3,458,764, 7-29-69, Cl. 317-14.
Gerwalt, Ulrich, to New Britain Machine Company, The. Machine for injection-molding of plastics and the like. 3,430,294, 3-4-69, Cl. 18-30.
Gerwick, Ben C., Jr.; and Farrell, Carl Y., to Pomeroy, J. H., & Co., Inc., mesne. Submerged oil storage facility and method. 3,467,118, 9-16-69, Cl. 137-1.
Gerwin, Harry L., to United States of America, Army. Pneumatic gyroscope with porous pickup. 3,485,106, 12-23-69, Cl. 74-5.6
Gerwin Industries, Inc.: *See—*
Dornbos, Russell H., 3,442,000.
Gery, Pierre M. Thermally expansible concrete slab and method of forming same. 3,474,581, 10-28-69, Cl. 52-220.
Gerzmava, Dusheli Vladimirovich: *See—*
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.
Gerzon, Koert: *See—*
Cannon, William N.; and Gerzon, Koert,3,420,654.
Gerzon, Koert; and Krumkalsn, Eriks V., to Lilly, Eli, and Company. Adamantyl azidoformates. 3,470,210, 9-30-69, Cl. 260-349.
Geschickter, Charles F.; and Meadow, Jacob R., to Geschickter Fund for Medical Research, Inc., The. Curcumin derivatives. 3,479,345, 11-18-69, Cl. 260-240.
Geschickter Fund for Medical Research, Inc.: *See—*
Geschickter, Charles F.; and Meadow, Jacob R., 3,479,345.
Rice, Leonard M.; and Grogan, Charles H., 3,432,499.
Gesellschaft fur Elektrometallurgie m.b.H.: *See—*
Fuchs, Alfons; and Babel, Albert, 3,472,655.
Rothmann, Hans; Keil, Werner; and Reichter, Heinz, 3,444,060.
Stadler, Fritz; and Fichte, Rudolf, 3,442,644.
Gesellschaft fur Elektrotechnik m.b.H.: *See—*
Zander, Heinz-Jurgen; and Stohr, Gerhard, 3,456,615.
Gesellschaft fur Kali-Interessen: *See—*
Burr, Richard, 3,485,356.
Gesellschaft Fur Kernforschung m.b.H.: *See—*
Bohme, Georg Eduard Wilhelm; and Hagen, Armin Theodor, 3,482,711.
Dosch, Peter; Kraus, Hans J.; and Uhrig, Hans, 3,483,082.
Eyrich, Karl Werner, 3,486,935.
Muller, Arno, 3,428,522.
Oehmann, Manfred, 3,424,652.
Ritz, Ludolf, 3,448,007.
Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft:*See—*
Becker, Rudolf, 3,421,332.
Gesellschaft fur Multiblitzgerate Dr.-Ing. D. A. Mannesmann mbH: *See—*
Ludloff, Wolfgang, 3,465,191.
Gesellschaft fur Multiblitzgerate Dr.-Ing. D.A. Mannesmann mbH: *See—*
Lassig, Wolfgang; and Ludloff, Wolfgang, 3,441,347.
Ludloff, Wolfgang, 3,475,647.
Gesellschaft zur Forderung der Eisenhuttentechnik m.b.H.: *See—*
Fischer, Wilhelm Anton, 3,457,785.
Fischer, Wilhelm Anton, 3,466,929.
Fischer, Wilhelm Anton, 3,468,780.
Gesellschaft zur Forderung der Forschung an der Eidgenossischen Technischen Hochschule: *See—*
Comunnetti, Angelo, 3,428,804.
De Haller, Andre; and Baumgartner, Willy, 3,485,550.
Held, Fritz; and Bolz, Edmund, 3,458,351.
Gesick, Norman S.: *See—*
Evans, Thomas R.; and Gesick, Norman S.,3,447,950.
Gesipa Gesellschaft fur Internationale Patentverwertung m.b.H.: *See—*
Biermann, Hans-Georg, 3,451,303.
Lauer, Herbert, 3,452,638.
Gesnel, Andre Paul: *See—*
Bourget, Maurice Louis; Gesnel, Andre Paul; and Orard, Joseph Antoine Louis,3,469,341.
Gessic , John D., 1/2 to Crawford, Cullen B. Coupling device. 3,473,782, 10-21-69, Cl. 251-149.6
Gessinger, Werner; and Hocke, Wilhelm. Light metal piston. 3,434,398, 3-25-69, Cl. 92-228.
Gessler, Jan Klaus, to British Ropes Limited. Resistance welding. 3,480,754, 11-25-69, Cl. 219-57.
Gessner, Adolph W., to Lummus Company, The. Process for recovering paraformaldehyde. 3,426,079, 2-4-69, Cl. 260-615.5
Gessner, Gunter Jerry: *See—*
Moreines, Harold; and Gessner, Gunter Jerry,3,473,151.
Gessner, Joseph, to Du Pont de Nemours, E. I., and Company. Composition for rendering paper forgery-proof and forming paper therewith. 3,437,555, 4-8-69, Cl. 162-140.
Gessner, Robert L., to General Electric Company. Balancing of gas pressure forces in multi-stage regenerative compressors. 3,477,636, 11-11-69, Cl. 230-129.
Gester, Marcel: *See—*
Lebrun, Michel; and Gester, Marcel,3,444,524.
Gestetner Limited: *See—*
Gates, Albert George Ronald, 3,425,345.
Gates, Albert George Ronald, 3,446,501.
Getchell, Frederick G.; Getchell, James W.; and Trunnell, Harold K., 1/2 each to Northwest Science Investment Corporation and Preferred Growth Capital, Inc. Drapery pleating, finishing and size control machine. 3,424,356, 1-28-69, Cl. 223-32.
Getchell, James W.: *See—*
Getchell, Frederick G.; Getchell, James W.; and Trunnell, Harold K.,3,424,356.
Getchell, Nelson F.; and Hollies, Norman R. S., to Cotton Producers Institute. Two-component wet fixation process for imparting durable press to cellulose-containing materials. 3,472,606, 10-14-69, Cl. 8-17.
Getha, William: *See—*
Forte, Virginia A., 3,432,081.
Gething, Frank, to Aqua-Chem, Inc. Immersion heater. 3,421,496, 1-14-69, Cl. 126-360.
Gething, Frank, to Cleaver-Brooks Company. Spiral ribbon gas burner. 3,438,719, 4-15-69, Cl.
Gething, Frank, to Aqua-Chem, Inc. Heat recovery boiler with bypass. 3,477,411, 11-11-69, Cl. 122-7.
Getman, Ronald K., to Gresen Manufacturing Company. Multi-port rotary and reciprocating fluid control valve. 3,469,606, 9-30-69, Cl. 137-636.4
Getselev, Zinovy Naumovich; Balakhontsev, Gennady Alexeevich; Cherepok, Gennady Vasilievich; Zinoviev, Vladimir Konstantinovich; Ershova, Antonida Alexeevna,; and Nonin, Mikhail Moiseevich. Method of continuous and semicontinuous casting of metals and a plant for same. 3,467,166, 9-16-69, Cl. 164-49.
Getter, Herbert. Tie-down anchor device. 3,421,726, 1-14-69, Cl. 248-361.
Gettig, Joseph H.: *See—*
Gettig, William A.; and Gettig, Joseph H.,3,470,671.
Gettig, William A.; and Gettig, Joseph H., to American Home Products Corporation. Process and apparatus for the breech-filling and stoppering of cartridge syringe units. 3,470,671, 10-7-69, Cl. 53-37.
Gettinger, Lillian L. Reversible head scarf with rain visor. 3,480,970, 12-2-69, Cl. 2-207.
Gettins, Robert B.: *See—*
Heron, Gordon F.; Halstead, John O.; and Gettins, Robert B.,3,449,227.
Gettle, Robert E.: *See—*
De Boer, Hendrik J.; and Gettle, Robert E.,3,465,955.
Gettle, Robert E.; and Voss, Robert H., to Mosler Safe Company, The. Card punching and notching method and apparatus. 3,452,925, 7-1-69, Cl. 234-1.
Gettmann, Philip L.: *See—*
Hutton, Richard W.; and Gettmann, Philip L.,3,439,494.
Getty Oil Company: *See—*
Friedman, Robert H., 3,464,492.
Grolemund, John L.; and Friedman, Robert H., 3,454,094.
Gettys, Donald C.: *See—*
Weber, Alan E.; and Gettys, Donald C.,3,454,064.
Getz, Edward J.: *See—*
Mills, John E.; and Getz, Edward J.,3,476,235.
Getzin, Allan R., to American Air Filter Company, Inc. Expansible-compressible unit filter assembly. 3,467,257, 9-16-69, Cl. 210-484.
Geurts, Cletus J. Yielding plow bottom. 3,461,973, 8-19-69, Cl. 172-264.
Geusic, Joseph E.: *See—*
Bonner, William A.; Geusic, Joseph E.; and Van Uitert, Le Grand G.,3,453,561.
Geusic, Joseph E.; and Singh, Shobha, to Bell Telephone Laboratories, Incorporated. Optical memory device employing multiphoton-excited fluorescing material to reduce exposure crosstalk. 3,453,604, 7-1-69, Cl. 340-173.
Geuss, Joseph A., to Bliss, E. W., Company. Movable bolster. 3,422,662, 1-21-69, Cl. 72-448.
Gevaert Photo-Producten N.V.: *See—*
Cassiers, Paul Maria; Rott, Andre; Meeussen, Louis Achilles; and Van Engeland, Jozef Leonard, 3,472,676.
Conix, Andre Jan, 3,449,295.
De Geest, Wilfried Florent; and Verkinderen, Paul August, 3,462,286.
De Keyser, Lodewijk Felix; Conix, Andre Jan; and Van Dessel, Lodewijk August, 3,434,840.
DeHaes, Louis Maria, 3,433,634.
Depoorter, Henri; Nys, Jean Marie; and Van Dormael, Andre Emile, 3,438,994.
Hendricx, Serge; and Loots, Francois Pierre, 3,470,021.

Jaeken, Jan, 3,447,923.
Libeer, Marcel Jan; and Depoorter, Henri, 3,468,661.
Monbaliu, Marcel Jacob; De Cat, Arthur Henri; and Van Poucke, Raphael Karel, 3,476,763.
Schmiedel, Ulrich, 3,441,505.
Schmiedel, Ulrich; Meeussen, Louis Achille; Cassiers, Paul Maria; and Hart, Rene Maurice, 3,441,947.
Van den Heuvel, Walter August; Vanhaist, Johan Eugeen; Van Engerland, Jozef Leonard; and De Volder, Noel Jozef, 3,432,329.
Van den Heuvel, Walter August; Vanhalst, Johan Eugeen; Van Engeland, Jozef Leonard; and DeVolder, Noel Jozef, 3,441,426.
Van Poucke, Raphael Karel; De Cat, Arthur Henri; and Monbaliu, Marcel Jacob, 3,441,414.

Gevaert-Agfa N.V.: *See*—
Bisschops, Johan Heinrich; Willems, Jozef Frans; and van Landeghem, Willy Karel, 3,460,984.
Brinckman, Eric Maria, 3,476,578.
Broos, Jozef, 3,442,464.
Cassiers, Paul Maria; Van Engeland, Jozef Leonard; and Noe, Robert Joseph, 3,425,829.
Cassiers, Paul Maria; Noe, Robert Joseph; and Van Engeland, Jozef Leonard, 3,486,922.
Cauwe, Andre Paul; and Van Bouwel, Leo Paul, 3,435,749.
Conix, Andre Jan; and Dohmen, Leonard Marie, 3,448,077.
Danhauser, Justus; and Pelz, Willibald, 3,449,294.
Danhauser, Justus; and Pelz, Willibald, 3,462,268.
De Poorter, Henri; and Libeer, Marcel Jan, 3,438,774.
De Smedt, Felix Frederik; and Marinus, Victor Alois, 3,455,175.
De Smedt, Felix Frederik; Marinus, Victor Alois; and De Meyere, Edwin August, 3,456,293.
De Smedt, Felix Frederik, 3,479,426.
Delzenne, Gerard Albert; and Laridon, Urbain Leopold, 3,429,795.
Delzenne, Gerard Albert; and Laridon, Urbain Leopold, 3,453,108.
Delzenne, Gerard Albert; and Laridon, Urbain Leopold, 3,453,110.
Delzenne, Gerard Albert, 3,457,073.
Depoorter, Henri; and Libeer, Marcel Jan, 3,455,684.
Depoorter, Henri; and Libeer, Marcel Jan, 3,476,558.
Deschuttere, Lucien Roger; Scharpe, Ludo Adriaan; Schaltin, Walter Malvine; and Peeters, Gustaaf Joannes, 3,469,275.
Eerdekens, Pieter Hendrik; and Pollet, Robert Joseph, 3,470,191.
Heugebaert, Frans Clement; and Willems, Jozef Frans, 3,474,108.
Jeurissen, Lambert Gaston; and Conix, Andre Jan, 3,444,139.
Jeurissen, Lambert Gaston; and Conix, Andre Jan, 3,453,241.
Koehler, Roland; Birk, Rudolf; Frick, Hans Dieter; Fengler, Harald; and Geyken, Erwin, 3,438,140.
Laridon, Urbain Leopold; and Delzenne, Gerard Albert, 3,427,161.
Laridon, Urbain Leopold; and Delzenne, Gerard Albert, 3,455,689.
Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Mader, Helmut, 3,467,518.
Seidel, Bernhard; Mader, Helmut; Danhauser, Justus; and Bartl, Herbert, 3,467,523.
Sels, Francis Jeanne; Willems, Jozef Frans; Vrancken, Marcel Nicolas; and Willems, Jozef Frans, 3,462,273.
Tavernier, Bernard Hippoliet; and De Meyer, Alfons Jozef, 3,438,748.
Van Bouwel, Leo Paul; and Tack, Willy Pieter, 3,435,539.
Van Engeland, Jozef Leonard; and Wouters, Albert Paul, 3,453,046.
Vanden Eynde, Hector Alfons; Pollet, Robert Joseph; and De Cat, Arthur Henri, 3,462,270.
Vrancken, Marcel Nicolas, 3,476,937.
Willems, Jozef; Hendricx, Edwin Frans; Thiers, Robrecht Julius; and Onghena, Jozef, 3,443,951.
Willems, Jozef Frans; van Veelen, George Frans; and De Haes, Maria Louis, 3,431,108.
Willems, Jozef Frans; and Vandenberghe, Antoon Leon, 3,438,777.

Geverink, Henry J.: *See*—
Dankert, Harry S.; and Geverink, Henry J.,3,447,995.

Gewartowski, James W., to Bell Telephone Laboratories, Incorporated. Microwave frequency converters comprising multi-port directional couplers. 3,447,102, 5-27-69, Cl. 332-30.

Gewartowski, Richard S.; Makowski, Frank T.; and Deibel, Joseph L., to Magnaflux Corporation. Ultrasonic billet inspection apparatus. 3,483,739, 12-16-69, Cl. 73-67.8

Gewecke, Theodore H.: *See*—
Addison, Benjamin A.; Jennings, Erwin R.; and Gewecke, Theodore H.,3,467,086.

Gewerkschaft Eisenhutte Westfalia: *See*—
Dommann, Gunther, 3,441,317.
Dommann, Gunther; and Holken, Norbert, 3,455,113.
Floter, Manfred, 3,482,878.
Georg, Werner; and Rassmann, Christoph, 3,438,679.
Grisebach, Hans-Theodor, 3,434,389.
Heyer, Willy; and Brinkmann, Friedrich, 3,421,795.
Heyer, Willy, 3,434,292.
Kerschek, Rudi, 3,480,130.
Lobbe, Armin; and Wengrzik, Michael, 3,445,138.
Rassmann, Christoph, 3,456,983.
Simon, Erfried, 3,482,594.
Weirich, Walter; and Kuschke, Gunther, 3,435,620.

Gewers, Claus W. W.: *See*—
Whitmer, Lawrence W.; Gewers, Claus W. W.; and McLatchie, Allan S.,3,474,663.

Gewiss, Lucien-Victor, to Marc Wood Materials Societe Anonyme Pour la Promotion des Echanges Techniques Internationaux. Method for forming herringbone configurations for sandwich structures. 3,433,692, 3-18-69, Cl. 156-197.

Gewiss, Lucien Victor, to Marc Wood Societe Anonyme pour la Promotion des Eschanges Techniques Internationaux. Method and apparatus for sandwiching corrugated core between skin layers. 3,461,013, 8-12-69, Cl. 156-210.

G.E.Y. Patenter Aktiebolag: *See*—
Holmberg, Gote Eskil Yngve, 3,453,701.

Gey, Werner; and Hofmann, Hans Dieter, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Oxidation product separation. 3,439,041, 4-15-69, Cl. 260-586.

Gey, Werner; Philipp, Wolfgang; Dittrich, Ewald; Corsepius, Horst; and Bonders, Peter, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Adiponitrile recovery by multistage vacuum distillation. 3,451,900, 6-24-69, Cl. 203-75.

G.E.Y.-Patenter Aktiebolag: *See*—
Holmberg, Gote Eskil Yngve, 3,420,573.
Holmberg, Gote Eskil Yngve, 3,430,885.

Geyer, Howard M., to Pneumo Dynamics Corporation. Cable tension regulator. 3,433,089, 3-18-69, Cl. 74-501.5

Geyer, Howard M., to General Electric Company. Actuator locking mechanism. 3,442,176, 5-6-69, Cl. 91-44.

Geyer, James Winston. Extrusion apparatus. 3,461,497, 8-19-69, Cl. 18-12.

Geyer, Wallace T.; and Coyle, Edward L., to ACF Industries, Incorporated. Heat transfer means for a railway tank car. 3,468,300, 9-23-69, Cl. 126-343.5

Geyger, Ella: *See*—
Geyger, William A.,3,449,665.

Geyger, William A., deceased0 (by Geyger, Ella), to United States of America, Navy. Adjustable ring-core magnetometer with high sensitivity. 3,421,074, 1-7-69, Cl. 324-43.

Geyger, William A., deceased0 (by Geyger, Ella, executrix), to United States of America, Navy. Perpendicular-magnetization type magnetometer using a core wound of ferromagnetic tape. 3,449,665, 6-10-69, Cl. 324-47.

Geyger, William A., to United States of America, Navy. Fundamental frequency ring core blux gate magnetometer. 3,448,376, 6-3-69, Cl. 324-47.
Geyger, William A.,3,421,074.

Geyken, Erwin: *See*—
Koehler, Roland; Birk, Rudolf; Frick, Hans Dieter; Fengler, Harald; and Geyken, Erwin,3,438,140.

Geyken, Erwin, to Agfa Aktiengesellschaft. Electrolytic method and apparatus for recovering silver from fixing baths. 3,463,711, 8-26-69, Cl. 204-109.

Geymayer, Wolfgang: *See*—
Grasenick, Fritz; Geymayer, Wolfgang; and Aldrian, Adolf,3,462,969.

Geymer, Douglas O.: *See*—
Trementozzi, Quirino A.; Geymer, Douglas O.; Boyd, Thomas; and Dietrich, Heinz J.,3,482,935.

Gfroerer, Gerald T.: *See*—
Williamson, Archie O.; Takata, Harry H.; and Gfroerer, Gerald T.,3,483,806.

'G' Grip Corporation, The:*See*—
Garrity, John K., 3,441,276.

Gheen, Lyndle G., to Pierce, R. H., Manufacturing Company. Irrigation valving. 3,478,780, 11-18-69, Cl. 137-624.18

Ghelfi, Leo L. Differential pressure tool. 3,480,088, 11-25-69, Cl. 173-78.

Gheno, Roger A. Rechargeable battery operated picture illuminating lamp. 3,475,603, 10-28-69, Cl. 240-2.

GHH-M.A.N. Technik Gesellschaft fur Anlagenbau m.b.H.: *See*—
Kunst, Bernhard, 3,457,143.

Ghio, Vincent, J., Jr.: *See*—
Herrenkohl, Leo E.; and Ghio, Vincent, J., Jr.,3,445,582.

Ghionda, Andre. Guiding ramp for motor vehicles. 3,456,879, 7-22-69, Cl. 238-4.

Ghiringhelli, Robert J., to Western Union Telegraph Company, The. Automatic dialer. 3,436,477, 4-1-69, Cl. 178-26.

Ghita, Dumitru; Saizescu, Nastase; and Bolintineanu, Razvan. Method of and apparatus for the production of acetylene. 3,485,605, 12-23-69, Cl. 48-1.

Ghose, Tarun Kumar; and Dutta, Ranendra. Coating of aluminium and/or aluminium alloys on steel surfaces. 3,468,770, 9-23-69, Cl. 204-38.
Ghosh, Arthur G., to Perstorp Aktiebolag. Water-thinnable, air-drying film-forming polyester resin compositions. 3,463,750, 8-26-69, Cl. 260-22.
Ghosh, Ranajit; and Bishop, Nigel Douglas, to Imperial Chemical Industries Limited. Thio-carbamyl-α-lactones. 3,464,986, 9-2-69, Cl. 260-247.1
Ghosh, Suhas, to International Standard Electric Corporation. Negative feedback amplifier having adjustable gain. 3,454,890, 7-8-69, Cl. 330-17.
Ghys, Lodewijk Viktor Hendrik Maria: *See*—
Leyssens, Francois Jeanne Charles; and Ghys, Lodewijk Viktor Hendrik Maria,3,469,312.
Giachi, Sante. Composite reinforcement and handgrip for a ladies handbag. 3,459,362, 8-5-69, Cl. 229-54.
Giacobone, Emilia Manfredini: *See*—
Nicita, Domenico; Parmeggiani, Paolo; Perazzoni, Pierluigi; and Giacobone, Piero,3,448,186.
Giacobone, Piero: *See*—
Nicita, Domenico; Parmeggiani, Paolo; Perazzoni, Pierluigi; and Giacobone, Piero,3,448,186.
Giacomelli, David B.: *See*—
Sobek, Dale W.; and Giacomelli, David B.,3,435,946.
Giacomelli, Peter K.: *See*—
Stark, Sven Olof Soren; and Giacomelli, Peter K.,3,445,629.
Giacosa, Dante, to Fiat Societa per Azioni. Motor vehicle suspensions. 3,469,859, 9-30-69, Cl. 280-96.2
Giaever, Ivar, to General Electric Company. Electron tunnel emission apparatus and methods. 3,448,301, 6-3-69, Cl. 307-306.
Giaimo, Edward C., Jr., to Radio Corporation of America. Photoconductive compositions and electrophotographic recording elements made therefrom. 3,428,452, 2-18-69, Cl. 96-1.7
Giambalvo, Joseph. Adjustable furniture construction. 3,437,060, 4-8-69, Cl. 108-151.
Giambertoni, Natale, to Holzer-Patent AG. Device for controlling the wash cycle of a washing machine. 3,446,924, 5-27-69, Cl. 200-38.
Giammaria, John J., to Mobil Oil Corporation. Grease compositions. 3,431,204, 3-4-69, Cl. 252-28.
Giammarino, Joseph E.; and Brand, Derek A., to Aurora Plastics Corp. Road racing track. 3,424,379, 1-28-69, Cl. 238-10.
Giammona, Salvatore, to Aktiengesellschaft Brown Boveri & Cie. Electrical switching arrangement with multiple interruption. 3,448,287, 6-3-69, Cl. 307-136.
Gianatasio, Philip A., to Uniroyal, Inc. Polyurethane elastoplastic resistant to high speed flexural impact and gear made therefrom. 3,457,234, 7-22-69, Cl. 260-75.
Giancarlo, Horeschi: *See*—
Piero, Barozzi Gian; and Giancarlo, Horeschi,3,458,124.
Piero, Barozzi Gian; and Giancarlo, Horeschi,3,469,778.
Piero, Barozzi Gian; and Giancarlo, Horeschi,3,482,775.
Giangualano, Michael N.; Martenson, Irvin W.; and Ott, Lawrence H., to Dynachem Corporation. Offset printing plates. 3,462,267, 8-19-69, Cl. 96-33.
Gianino, Francis T., to Polaroid Corporation. Exposure control apparatus for photographic camera. 3,443,499, 5-13-69, Cl. 95-18.
Giannamore, Ronald J., to United Aircraft Corporation. Transient suppression switch. 3,454,834, 7-8-69, Cl. 317-31.
Giannamore, Ronald: *See*—
Sikes, Richard L.; and Giannamore, Ronald,3,439,252.
Giannelia, John. Interlocking building block. 3,435,576, 4-1-69, Cl. 52-300.
Giannetti, Joseph P.; Henke, Alfred M.; Sebulsky, Raynor T.; and Starnes, William C., to Gulf Research & Development Company. Method for activating alumina catalysts. 3,466,250, 9-9-69, Cl. 252-442.
Giannetti, Joseph P.; Mc Ilvried, Howard G.; and Sebulsky, Raynor T., to Gulf Research & Development Company. Isomerization catalyst and method for preparing and using same. 3,472,790, 10-14-69, Cl. 252-442.
Giannetti, Joseph P.; McIlvried, Howard G., III; and Sebulsky, Raynor T., to Gulf Research & Development Company. Activation of an isomerization catalyst with an initial sulfur chloride treatment and subsequently with an oxygen-containing gas. 3,441,514, 4-29-69, Cl. 252-441.
Giannettino, Joseph D. Dispenser for depositing single discs, as on a game board. 3,464,590, 9-2-69, Cl. 221-297.
Giannetto, Salvatore A. Dent removing tool. 3,483,727, 12-16-69, Cl. 72-429.
Giannini Controls Corporation: *See*—
Howard, Robert Charles, 3,455,637.
Giannini Scientific Corporation: *See*—
Kremith, Roland D., 3,468,699.
Kwartiroff, Alexis A.; and Tchinnis, Michael F., 3,456,206.
Rikis, Vitolds, 3,443,086.
Van Ornum, Delbert G.; and Sheets, Ronald E., 3,447,013.
Giannini, Umberto; and Bruckner, Germana, to Montecatini Edison S.p.A. Homopolymers and copolymers of unsaturated tertiary amines, and process for producing the same. 3,476,726, 11-4-69, Cl. 260-89.7
Giannuzzi, George A.; and Haney, Donald W., to International Business Machines Corporation. Fluid control means for zero suppression in printing and sensing devices. 3,427,962, 2-18-69, Cl. 101-93.
Gianola, Umberto F.: *See*—
Bobeck, Andrew H.; Gianola, Umberto F.; Sherwood, Richard C.; and Shockley, William,3,460,116.
Bonyhard, Peter I.; and Gianola, Umberto F.,3,453,609.
Gianola, Umberto F., to Bell Telephone Laboratories, Incorporated. Character recognizer circuit. 3,466,627, 9-9-69, Cl. 340-174.
Gianola, Umberto F., to Bell Telephone Laboratories, Incorporated. Parallel address magnetic domain wall memory. 3,479,660, 11-18-69, Cl. 340-174.
Gianola, Umberto F.; Kaenel, Reginald A.; and Scovil, Henry E. D., to Bell Telephone Laboratories, Incorporated. Scanning circuit employing shift registers. 3,430,001, 2-25-69, Cl. 179-18.
Gianola, Umberto F.; Kaenel, Reginald A.; and Smith, James L., to Bell Telephone Laboratories, Incorporated. Magnetic memory circuit achieving repertory dialer operation with domain propagation media. 3,482,224, 12-2-69, Cl. 340-174.
Gianola, Umberto F.; and Michaelis, Paul C., to Bell Telephone Laboratories, Incorporated. Thermally actuated bistable switch. 3,471,819, 10-7-69, Cl. 337-336.
Giavotto, Vittorio; and Caprile, Carlo, 4/5 to S.I.N.A. Societa Iniziative Nazionali Autostradali S.p.A. Guard rail. 3,430,923, 3-4-69, Cl. 256-13.1
Giavotto, Vittorio; and Caprile, Carlo, to S.I.N.A.Societa Iniziative Nazionali Autostradali S.p.A. Guard rail or road protection barrier having a hollow beam boom. 3,438,611, 4-15-69, Cl. 256-13.1
Gibas, John Thaddeus; Lee, Hsi Lin; and Wenner, Wilhelm, to Hoffmann-La Roche Inc. 1,2 Dihydro 4-isoquinoloines is provided. 3,457,266, 7-22-69, Cl. 260-289.
Gibb, Thomas B., Jr.: *See*—
Garty, Kenneth T.; and Gibb, Thomas B., Jr.,3,427,259.
Gibbard, Thomas: *See*—
Pretty, Frederick A.; and Gibbard, Thomas,3,451,299.
Gibbons, Alfred M. Fishing rod support. 3,453,765, 7-8-69, Cl. 43-15.
Gibbons, Ambrose J., Jr.; and De Marco, Richard E., to SCM Corporation, mesne. Triorganostannoxy zirconium alcoholate derivatives of dialkanolamine. 3,431,288, 3-4-69, Cl. 260-429.3
Gibbons, Carl B., to Eastman Kodak Company. Method of altering electrostatic charge on an insulating material. 3,470,417, 9-30-69, Cl. 317-4.
Gibbons, De Lamar J. Vacuum receptor. 3,421,504, 1-14-69, Cl. 128-278.
Gibbons, James F.: *See*—
Purnaiya, Gopal M.; Archer, John A.; and Gibbons, James F.,3,483,477.
Gibbons, John C. Vertical replenishment system. 3,452,950, 7-1-69, Cl. 244-137.
Gibbons, John P.; and Wondolowski, Lawrence, to Corn Products Company. Preparation of alkali-stable alkyl glucosides. 3,450,690, 6-17-69, Cl. 260-210.
Gibbons, Lyle P. Corrective shoe with angular clamped adjustment. 3,424,166, 1-28-69, Cl. 128-583.
Gibbons, Peter Edwin: *See*—
Cooke-Yarborough, Edmund Harry; and Gibbons, Peter Edwin,3,461,297.
Gibbons, Peter Frederick; Knight, David John; Neal, Brian Patrick; and Parbery, Cyril John, to Westinghouse Brake and Signal Company Limited. Control system for spring and air applied brake actuators. 3,456,988, 7-22-69, Cl. 303-2.
Gibbons, William Frederick; and Watkin, Kenneth, to Ferranti, Limited. Particle accelerators. 3,471,630, 10-7-69, Cl. 174-50.61
Gibbs, Charles H. Noise level visual indicator. 3,440,349, 4-22-69, Cl. 179-1.
Gibbs, Dale S., to Dow Chemical Company, The. Aqueous dispersions of rapidly crystallizable vinylidene halide interpolymerizates. 3,483,154, 12-9-69, Cl. 260-29.6
Gibbs, Dale S.; Miles, Wallace J.; and Kochaney, Eugene, to Dow Chemical Company, The. Substrates coated with aqueous dispersions of rapidly crystallizable vinylidene chloride interpolymerizates. 3,468,703, 9-23-69, Cl. 117-155.
Gibbs, Daniel M. Kick-up back stop for press brake. 3,421,359, 1-14-69, Cl. 72-461.
Gibbs, Doyle C.: *See*—
Aldrich, Douglas H.; Bombard, Richard F.; Gibbs, Doyle C.; and Orrange, Robert J.,3,448,271.
Gibbs, Doyle C., to International Business Machines Corporation. Information decoding apparatus employing a frequency sensitive light responsive receiver. 3,454,775, 7-8-69, Cl. 250-226.
Gibbs, Edward E.: *See*—
Carson, Chester C.; Gibbs, Edward E.; and Grobel, Lloyd P.,3,428,838.

Gibbs, Edward E.; Coggeshall, Almy D.; and Shirk, Harold R., to General Electric Company. Winding support structure for a dynamoelectric machine. 3,437,859, 4-8-69, Cl. 310-260.
Gibbs, Frank C., to Phillips Petroleum Company. Polymerization. 3,429,866, 2-25-69, Cl. 260-94.9
Gibbs, Fred E.: *See—*
Johnson, Glenn D.; and Gibbs, Fred E.,3,454,088.
Gibbs, Kenneth E., to Bissell Inc. Shampooer. 3,458,263, 7-29-69, Cl. 401-22.
Gibbs, Lester R. Weighted press fountain back structure. 3,457,858, 7-29-69, Cl. 101-363.
Gibbs, Norman R.; and Herriges, Joseph R., to Buckbee-Mears Company. Robber control for electroplating. 3,437,578, 4-8-69, Cl. 204-231.
Gibbs, Paul F.: *See—*
Best, Howard S.; Gibbs, Paul F.; and Mosely, Graham Hartwell,3,467,004.
Gibbs, Richard D.; and Rushing, Raymond G., to General Electric Company. Method of reducing electrical losses in electrically conductive laminated structures. 3,421,209, 1-14-69, Cl. 29-609.
Gibbs, Thomas T. Bicycle-type exerciser with side-by-side parallel pedals. 3,485,495, 12-23-69, Cl. 272-73.
Gibian, Heinz: *See—*
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois,3,431,263.
Giblin, James P.: *See—*
Bernier, Louis E.; and Giblin, James P.,3,486,249.
Gibney, Grant Omer: *See—*
Wood, David Hugh, Jr.; Gibney, Grant Omer; and Smith, Richard,3,476,567.
Gibraltar Fabrics, Inc.: *See—*
Forman, Benjamin, 3,482,745.
Gibsen, Kenneth F., to Kelco Company. Water base paints. 3,481,889, 12-2-69, Cl. 260-124.
Gibson, Anthony Thomas: *See—*
Birt, David Edward; Gibson, Anthony Thomas; Holden, Peter John; and Webley, Reginald Sidney,3,439,109.
Gibson, Baylor D.; and Berne, Hans Jorg Otto, to Celanese Corporation. Stabilizing yarn threadline during twisting. 3,475,896, 11-4-69, Cl. 57-106.
Gibson, Charles B., Jr., to Tektronix, Inc. Charge image storage method and apparatus. 3,421,041, 1-7-69, Cl. 315-12.
Gibson, Charles B., Jr., to Tektronix, Inc. Charge image storage method and apparatus. 3,426,238, 2-4-69, Cl. 315-12.
Gibson, Charles B., Jr., to Tektronix Inc. Camera tube apparatus. 3,433,994, 3-18-69, Cl. 315-10.
Gibson, Christian D., to Raymond Corporation, The. Lift truck suspension system. 3,424,475, 1-28-69, Cl. 280-124.
Gibson, Clyde E.; and Peterson, Don M., to General Processing Corporation. Coupler mechanism for ball-type trailer hitches. 3,446,520, 5-27-69, Cl. 280-512.
Gibson, Dorthey D. Sewing device. 3,442,235, 5-6-69, Cl. 112-169.
Gibson, Edward J.; Shiller, Stanley L.; and Riseman, John H., to Orion Research, Inc. Ion-sensitive electrode structure. 3,467,590, 9-16-69, Cl. 204-195.
Gibson, Edwin G., Sr., to General Electric Company. Cleaning device. 3,435,479, 4-1-69, Cl. 15-104.04
Gibson, Fred D., Jr.; Halker, Bruce B.; and Thayer, Robert L., to Pacific Engineering and Production Co. Electrodeposition of lead dioxide. 3,463,707, 8-26-69, Cl. 204-15.
Gibson, George A. Paper-feeding method and machine. 3,448,978, 6-10-69, Cl. 271-11.
Gibson, Harlan D.: *See—*
Mc Vey, Charles I.; Mc Connaughey, Newton; Gibson, Harlan D.; and Smith, Jack V.,3,449,175.
Gibson, John James: *See—*
Burns, Joseph R.; and Gibson, John James,3,457,435.
Gibson, John James, to Radio Corporation of America. Logic circuits employing field-effect transistors. 3,439,185, 4-15-69, Cl. 307-205.
Gibson, John James; and Burns, Joseph R., to RCA Corporation. Logic circuits employing complementary pairs of field-effect transistors. 3,449,594, 6-10-69, Cl. 307-251.
Gibson, Kevin Julian: *See—*
Render, Alwyn Barrie; and Gibson, Kevin Julian,3,450,341.
Gibson, Leslie W., Jr.: *See—*
Saganowich, Bernard F.; Gibson, Leslie W., Jr.; and Hoverter, Bryce E., Jr.,3,470,835.
Gibson, Neil J.; and Graham, Howard M., to United States of America, Atomic Energy Commission. Magnetic repulsion actuated switch. 3,487,342, 12-30-69, Cl. 335-5.
Gibson Readymixed Concrete Limited: *See—*
Gallagher, Gerard J., 3,456,925.
Gibson, Richard B.; Kerr, Douglas A.; and Lindsay, Thomas E., to Bell Telephone Laboratories, Incorporated. Automatic handshaking method and apparatus for date transmission systems. 3,457,550, 7-22-69, Cl. 340-147.
Gibson, Robert G.; Hughes, David R.; and Leavenworth, Richard L., to International Business Machines Corporation. Automatic transmission speed selection control for a data transmission system. 3,434,117, 3-18-69, Cl. 340-172.5
Gibson, Robert G.; Johnson, Delbert B.; Mackin, John G., Jr.; and Straws, James C., to Brown & Root, Inc. Platform for drilling wells at water locations. 3,486,343, 12-30-69, Cl. 61-46.5
Gibson, Roger E.: *See—*
Blount, William W., Jr.; Gibson, Roger E.; and Tholstrup, Clarence E.,3,440,210.
Gibson, Ronald F.; Nunley, Clifford E.; and Waters, Dean A., to United States of America, Atomic Energy Commission. Liquid centrifuge for large-scale virus separation. 3,430,849, 3-4-69, Cl. 233-1.
Gibson, Samuel H.: *See—*
Crew, Orville F.; Gardner, Verl L.; and Gibson, Samuel H.,3,460,229.
Gibson, Sidney H.; and Hackler, Layton J. Golf swing training device. 3,482,838, 12-9-69, Cl. 273-186.
Gibson, Thomas W., to Procter & Gamble Company, The. Compounds of 1,5-dimethylbicyclo (2.1.1) hexane. 3,468,928, 9-23-69, Cl. 260-468.
Gibson, Thomas W.; and Erman, William F., to Procter & Gamble Company, The. Synthesis of cis-beta-bergamotene. 3,481,998, 12-2-69, Cl. 260-675.5
Gibson, Van R., Jr., to General Electric Company. Interstage coupling and neutralization circuit. 3,435,133, 3-25-69, Cl. 178-5.6
Gibson, Warren O., to Hawaiian Sugar Planters Association. Surface irrigation device. 3,468,130, 9-23-69, Cl. 61-12.
Gibson, Wilfred C.; McClintock, Ross A.; and Thompson, Raymond E., to Shaffer Tool Works. Method and apparatus for off shore drilling. 3,474,858, 10-28-69, Cl. 166-0.5
Gibson, Willard C.: *See—*
Courtot, Louis B.; and Gibson, Willard C.,3,469,605.
Gichner Mobile Systems, Inc.: *See—*
Hewes, George B., Jr.; and Conner, James Leon, 3,466,011.
Giconi, Renell A., to Crile, Vaughn W. Stone cutting machine. 3,424,144, 1-28-69, Cl. 125-23.
Gidden, David William: *See—*
Allen, Melvin Oland, 3,480,833.
Gidden, Howard Eugene: *See—*
Allen, Melvin Oland, 3,480,833.
Gidden, Joe H.: *See—*
Allen, Melvin Oland, 3,480,833.
Giddey, Andre; and Vuataz, Luc, to Afico S.A. Process for the production of a tea extract. 3,481,744, 12-2-69, Cl. 99-77.
Giddey, Andre: *See—*
Vuataz, Luc; and Giddey, Andre,3,477,854.
Giddings & Lewis, Inc.: *See—*
Harmer, William D., 3,487,306.
Jones, Gordon H.; and Hosea, Everett E., 3,465,615.
Lehmkuhl, Robert A.; and Reed, Robert E., 3,452,427.
McCann, Walter L.; and Johnson, Earl E., 3,469,496.
McCann, Walter L., 3,469,497.
McGee, John K., 3,439,346.
Steiner, Daniel J.; and Schneider, Cyril J., 3,475,998.
Wohlfeil, Jack A., 3,475,997.
Giddings, Alfred J., to United States of America, Navy. Water turbine drive for spinning flap control (or flettner rotor control). 3,473,504, 10-21-69, Cl. 114-162.
Giddings, John C., to University of Utah. Method for separating and detecting fluid materials. 3,449,938, 6-17-69, Cl. 73-23.
Gideonsen, Arthur J.; and Sandrock, Dale D., to Caterpillar Tractor Company. Apparatus for connecting a lift assembly to a fork lift truck. 3,424,328, 1-28-69, Cl. 214-768.
Gidge, Lester. Preshaped cartridge for, and method of packaging, percolator ground coffee. 3,445,237, 5-20-69, Cl. 99-77.1
Gidley, John L., to Esso Production Research Company. Method for acid treating carbonate formations. 3,441,085, 4-29-69, Cl. 166-307.
Gidley, John L., to Esso Production Research Company. Sandstone acidizing process. 3,481,404, 12-2-69, Cl. 166-307.
Gidley, John L.; Terry, William M.; and Brooks, Fred A., Jr., to Esso Production Research Company. Method for consolidating formations surrounding boreholes with resin. 3,481,403, 12-2-69, Cl. 166-295.
Gidley, John L.; and Tomer, Fred S., to Esso Production Research Company. Acid fracturing process. 3,452,818, 7-1-69, Cl. 166-308.
Gidlow, Rolf G., to Pillsbury Company, The. Freeze-drying of porous materials during storage. 3,462,849, 8-26-69, Cl. 34-5.
Gidlow, Rolf G.: *See—*
Ganske, Warren L.; Stein, Jolyon A.; Gidlow, Rolf G.; and McCarron, Fred H.,3,433,644.
Gidlow, Rolf Gunnar, to Pillsbury Company, The. Freeze drying apparatus and process. 3,458,941, 8-5-69, Cl. 34-5.
Gidseg, Edward D. Self-defrosting refrigerators. 3,421,338, 1-14-69, Cl. 62-155.
Gidseg, Edward D. Self-defrosting refrigerator. 3,486,347, 12-30-69, Cl. 62-155.

Gie, Ong Tjing; Krijtenburg, Gerben Sjoerd; and Nijhof, Berend Jan, to North American Philips Company, Inc. Method of manufacturing ferrites. 3,428,416, 2-18-69, Cl. 23-51.
Giebel, Buddy E., to Union Camp Corporation. Knockdown paperboard chair with storage space. 3,463,546, 8-26-69, Cl. 297-440.
Giebel, Joseph L.: *See—*
Temple, Robert; Temple, Ernest E.; and Giebel, Joseph L.,3,449,993.
Giegerich, Bertrand V., to General Electric Company. Loadbreak fuseholder. 3,471,816, 10-7-69, Cl. 337-195.
Giegerich, Bertrand V., to General Electric Company. Combined fuse and switch operator assembly. 3,480,898, 11-25-69, Cl. 337-4.
Gieles, Joannes Paulus Maria: *See—*
Bongenaar, Willem; Gieles, Joannes Paulus Maria; and Slob, Arie,3,433,978.
Gielisse, Peter J.; and Doser, Manfred, to General Electric Company. Thermistor device and method of producing said device. 3,435,398, 3-25-69, Cl. 338-22.
Gielisse, Peter J.; and Doser, Manfred, to General Electric Company. Thermistor device and method of producing said device. 3,435,399, 3-25-69, Cl. 338-22.
Gielkens, Johannes W.: *See—*
Thoma, Jozef A.; and Gielkens, Johannes W.,3,446,835.
Thoma, Jozef A.; Gielkens, Johannes W.; and Reichrath, Werner,3,476,664.
Giella, Mario; and Petralia, Raymond Rosario, to Swift & Company. Leather dehydration in a falling film dehydrator. 3,444,625, 5-20-69, Cl. 34-9.
Giellerup, Leon W., to United Shoe Machinery Corporation. Composite sheet adhesives. 3,483,020, 12-9-69, Cl. 117-76.
Gielow, David E.; and Littlejohn, Duane P., to Varian Associates. Plug-in detachable electrode structures for mass spectrometers. 3,471,691, 10-7-69, Cl. 250-41.9
Gielow, David E.; and Llewellyn, Peter M., to Varian Associates. Ion cyclotron resonance spectrometer employing means for recording ionization potentials. 3,446,957, 5-27-69, Cl. 250-41.9
Gielow, George F.: *See—*
Edwards, Robert L.; and Gielow, George F.,3,449,011.
Gielow, George F.; and Edwards, Robert L., to Artnell Company. Adjustable footrest assembly. 3,462,194, 8-19-69, Cl. 297-425.
Gielow, George F.; and Edwards, Robert L., to Artnell Company. Vehicle seat ash receiver. 3,472,239, 10-14-69, Cl. 131-235.
Gielow, George F.; and Edwards, Robert L., to Artnell Company. Vehicle seat ash receiver. 3,472,241, 10-14-69, Cl. 131-235.
Paes, Dale R.; and Gielow, George F.,3,453,026.
Giepen, Hubert M. Electric broiler. 3,421,432, 1-14-69, Cl. 99-332.
Gier, Delta W.: *See—*
Hensel, Jack; and Gier, Delta W.,3,463,838.
Gier, Delta W.; and Pritchard, Ralph W., II, to Chemagro Corporation. Aryl carbamates. 3,428,669, 2-18-69, Cl. 260-471.
Gier, John R., Jr. Method of making multifin helical fin tubes. 3,456,319, 7-22-69, Cl. 29-157.3
Gierut, Joseph F.: *See—*
Jackson, Donald M.; and Gierut, Joseph F.,3,469,850.
Gies, Donald G., Sr. Nautical weather station. 3,455,159, 7-15-69, Cl. 73-170.
Gies, Herbert L. Switch box anchor and tool for making same. 3,462,039, 8-19-69, Cl. 220-3.6
Gies, Paul E.; and Sperl, Gottlieb, to Houdaille Industries, Inc. Oscillatory shaft external seal structure. 3,455,563, 7-15-69, Cl. 277-84.
Gies, Paul E.; Sperl, Gottlieb; and Braaten, Ralph A., to Houdaille Industries, Inc. Rotary vane suspension units for endless track vehicles and the like. 3,444,787, 5-20-69, Cl. 91-462.
Giese, Elroy J.: *See—*
Chernak, John A.; and Giese, Elroy J.,3,459,345.
Giese, Emil, to Ringspann Albrecht Maurer K.G. Sprag-type freewheel clutch. 3,443,672, 5-13-69, Cl. 192-45.1
Giese, Ernest; Schubert, Egon; and Rienesl, Konrad, to Guido Rutgers. Process of impregnating capillary materials such as wood, under pressure in a closed vessel. 3,460,979, 8-12-69, Cl. 117-116.
Giese, Jack W. Adjustable applicator for lubricating ball bearings. 3,480,112, 11-25-69, Cl. 184-1.
Giesecke, Albert S. Sign and method. 3,453,761, 7-8-69, Cl. 40-135.
Giesecke, Henry A., to Apromat, Inc. Insertable diaphragm rings for optical, converging lens systems to reduce diffraction vignetting. 3,433,556, 3-18-69, Cl. 350-162.
Giesecke, Henry A., to Apromat, Inc. Compact combination of a separately usable plane mirror and roof mirror. 3,447,859, 6-3-69, Cl. 350-203.
Gieskieng, David H., to Allis-Chalmers Manufacturing Company. Method and apparatus for preheating particulate feed material for a rotary kiln. 3,441,258, 4-29-69, Cl. 263-32.
Giesking, Paul F., to Pickands Mather & Co. Articulated railway hopper cars. 3,422,771, 1-21-69, Cl. 105-3.
Giessler, Donald A.; and Lafferty, Laurence E., Jr., to Ball Brothers Company, Incorporated. Container lid. 3,445,023, 5-20-69, Cl. 215-40.
Giessler, Donald A.; and Ratliff, Floyd A., to Ball Brothers Company Incorporated. Storage assembly for home food processing closure. 3,421,648, 1-14-69, Cl. 215-40.
Giessler, Wolfgang: *See—*
Bodesheim, Ferdinand; Giessler, Wolfgang; and Nischk, Gunther,3,474,135.
Giffard, Jude A. Stop-smoking case. 3,424,123, 1-28-69, Cl. 116-2.
Gifford, Guthrie William. Screws, bolts and like fastenings. 3,439,575, 4-22-69, Cl. 85-1.
Gifford, Maurice J.; and Grindrod, Paul E., to Mayer, Oscar, & Co., Inc. Laminated film, methods of making same and packages formed therefrom. 3,420,679, 1-7-69, Cl. 99-171.
Gifford, Maurice J.; and Seiferth, Oscar E., to Mayer, Oscar, & Co., Inc. Saran coating of filled rigid plastic containers. 3,438,788, 4-15-69, Cl. 99-171.
Gifford, Ross W., to Tektronix, Inc. Transition device. 3,426,311, 2-4-69, Cl. 339-17.
Gifford, Ross W., to Tektronix, Inc. Plastic mounting clip for electrical circuit component. 3,439,227, 4-15-69, Cl. 317-101.
Gifford, Sheldon R., to General Electric Company. Disposable pallet. 3,464,371, 9-2-69, Cl. 108-57.
Gifford-Hill-Western, Inc.: *See—*
Harris, Harold Jay, 3,484,046.
Gift, Myrven F., to International Rectifier Corporation. Controlled rectifier device with integral di/dt limiting reactor. 3,487,274, 12-30-69, Cl. 317-234.
Gigante, Claudio, to Trans-Continental Engineering Corporation. Control mechanism. 3,426,979, 2-11-69, Cl. 242-99.
Gigante, Mario: *See—*
Fromm, Marvin M.; and Gigante, Mario,3,454,805.
Gigante, Pietro; Antoniu, Demetrio; Ganzina, Fabrizio; Magi, Mario; and Serino, Enrico, to Sir Laboratori Chimico-Biologici S.p.A. Neurotropic amides from N-substituted aminomethyl- norcamphane and a procedure for their preparation. 3,467,705, 9-16-69, Cl. 260-558.
Giger, Richard N., to Flour City Architectural Metals. Drain construction for window sash and the like. 3,466,819, 9-16-69, Cl. 52-1.
Giger, Urs, to Eta A.G. Ebauches-Fabrik. Watch having improved means for driving date and day-of-the-week indicating members. 3,436,905, 4-8-69, Cl. 58-58.
Giger, Urs; and Jakob-Schild, Edwin F., to Eta A.G. Ebauches-Fabrik. Calendar watch with correction device for the date ring. 3,465,513, 9-9-69, Cl. 58-58.
Giger, Walter, Jr.: *See—*
Durward, Lloyd S., Jr.; Giger, Walter, Jr.; and Krause, Werner A.,3,427,396.
Giger, Walter, Jr.; and Johnston, Frank C., to General Electric Company. Plug-in type electrical power distribution system. 3,439,309, 4-15-69, Cl. 339-22.
Giglio, Ernest J., to United States of America, Health, Education, and Welfare. Eye measuring instrument. 3,453,998, 7-8-69, Cl. 128-2.
Gigliotti, Peter: *See—*
Del Vecchio, Michael, 3,468,073.
Gignilliat, Leigh R., III. Disposable clinical thermometer. 3,430,491, 3-4-69, Cl. 73-358.
Gignilliat, William W.; and Wilder, John W., to Eastman Kodak Company. Process for stabilizing polymers. 3,432,462, 3-11-69, Cl. 260-45.85
Gijzenberg, Joost. Device for harrowing arable land. 3,422,907, 1-21-69, Cl. 172-102.
Gil, Paul: *See—*
Gil, Randi; and Gil, Paul,3,475,084.
Gil, Randi; and Gil, Paul. Detachable eyeglass temple bars. 3,475,084, 10-28-69, Cl. 351-116.
Gilain, Jacques: *See—*
Ryckaert, Andre; and Gilain, Jacques,3,454,663.
Gilardi, Robert John, to Du Pont de Nemours, E. I., and Company. Novel procedure for starting the flash-extrusion of expandable resin compositions. 3,461,193, 8-12-69, Cl. 264-53.
Gilb, Tyrell T. Information control system. 3,465,328, 9-2-69, Cl. 340-324.
Gilbert & Barker Manufacturing Company: *See—*
Mesh, Theodore J., 3,448,843.
Mesh, Theodore J., 3,448,895.
Gilbert, A. C., Company, The: *See—*
Wolf, Tobin, 3,420,135.
Gilbert, Allan H.: *See—*
Cahn, Arno; and Gilbert, Allan H.,3,423,430.
Cahn, Arno; and Gilbert, Allan H.,3,479,301.
Cahn, Arno; Winnegrad, Ronald Ross; and Gilbert, Allan H.,3,455,957.
Gilbert, Allen Carlton; and Dolan, John R. Construction scaffold safety railing. 3,425,509, 2-4-69, Cl. 182-113.
Gilbert, Andrew: *See—*
Bryce-Smith, Derek; Gilbert, Andrew; and Vickery, Brian,3,480,532.
Gilbert Brian, to Lucas, Joseph, (Industries) Limited. Spark ignition systems. 3,459,164, 8-5-69, Cl. 123-148.

Gilbert, Brian, to Lucas, Joseph, (Industries) Limited. Spark ignition systems. 3,461,345, 8-12-69, Cl. 315-209.

Gilbert, Brian: *See—*
Nolan, Roger William; and Gilbert, Brian,3,443,192.

Gilbert, Chalmers W.: *See—*
Carey, Andrew J.; and Gilbert, Chalmers W.,3,433,373.

Gilbert, Chalmers W., to Westingouse Air Brake Company. Counting and limiting type of resettable ground detection system for detecting electrical ground conditions. 3,483,431, 12-9-69, Cl. 317-18.

Gilbert, Chalmers W.; and Popp, Ralph, to Westinghouse Air Brake Company. Pilot line synchronized phase selective track circuit. 3,433,942, 3-18-69, Cl. 246-34.

Gilbert, Dixie E., to Phillips Petroleum Company. Fibrillation method. 3,460,416, 8-12-69, Cl. 83-30.

Gilbert, Dixie E., to Phillips Petroleum Company. Dimethylsulfoxide in solvent system for polyolefin coating composition. 3,468,994, 9-23-69, Cl. 264-94.

Gilbert, Edward O., to Applied Dynamics, Inc. Operational amplifier having improved overload recovery. 3,456,203, 7-15-69, Cl. 330-9.

Gilbert, Edward O., to Applied Dynamics, Inc. Cascode amplifier output stage having cutoff preventing means. 3,460,047, 8-5-69, Cl. 330-18.

Gilbert, Edward O., to Applied Dynamics, Inc. Stabilized amplifier having improved overload recovery. 3,462,697, 8-19-69, Cl. 330-9.

Gilbert, Edward O., to Applied Dynamics, Inc. Hybrid computer switching system. 3,475,598, 10-28-69, Cl. 235-150.5

Gilbert, Edward O., to Applied Dynamics, Inc. Electronic integration apparatus. 3,475,689, 10-28-69, Cl. 328-127.

Gilbert, Edward O.; and Single, Charles H., to Applied Dynamics, Inc. Electronic integration apparatus. 3,484,594, 12-16-69, Cl. 235-183.

Gilbert, Elmer G., to Applied Dynamics, Inc. Analog and analog-digital computer mode and time-scale control system. 3,480,769, 11-25-69, Cl. 235-183.

Gilbert, Everett A.; and King, George L., to RFL Industries, Inc. Frequency shift receiver with single discriminator tuned to one side of both signal frequencies. 3,440,541, 4-22-69, Cl. 325-320.

Gilbert, Everett E.: *See—*
Dear, Robert E. A.; and Gilbert, Everett E.,3,450,773.
Dear, Robert E. A.; and Gilbert, Everett E.,3,459,817.
Dear, Robert E. A.; and Gilbert, Everett E.,3,470,302.
Dear, Robert E. A.; and Gilbert, Everett E.,3,484,528.

Gilbert, Everett E., to Allied Chemical Corporation. Fire retardant elastomers of decachlorooctahydro- 1,3,4-metheno-2H cyclobuta [cd] pentalene-2-one and dienoid polymers and method for their preparation. 3,481,902, 12-2-69, Cl. 260-66.

Gilbert, Everett E.; and Gard, Gary L., to Allied Chemical Corporation. Pentafluorothiotrifluoroethylene fumigant. 3,475,453, 10-28-69, Cl. 424-335.

Gilbert, Everett E.; Oxenrider, Bryce C.; and Schmitt, George J., to Allied Chemical Corporation. Polycarbonate resins. 3,480,585, 11-25-69, Cl. 260-47.

Gilbert, Everett E.; and Veldhuis, Benjamin, to Allied Chemical Corporation. 1,2,4,7,7-Pentachlorotricyclo [2,2,1,$0^{2,6}$]heptane- 3-one-5-sulfonyl chloride. 3,445,514, 5-20-69, Cl. 260-543.

Gilbert, Everett E.; and Veldhuis, Benjamin, to Allied Chemical Corporation. Fluorinated alcohol and ether derivatives thereof. 3,445,524, 5-20-69, Cl. 260-614.
Farah, Basil S.; and Gilbert, Everett E.,3,450,822.
Farah, Basil S.; Gilbert, Everett E.; and Veldhuis, Benjamin,3,462,482.

Gilbert, Frank Peter, to Cossor, A. C., Limited. Knob locking device. 3,427,680, 2-18-69, Cl. 16-121.

Gilbert, George J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,430,115.

Gilbert, George J., to RCA Corporation. Method of fabricating semiconductor device. 3,453,724, 7-8-69, Cl. 29-590.

Gilbert, George J., to RCA Corporation. Encapsulation and connection structure for high power and high frequency semiconductor devices. 3,479,570, 11-18-69, Cl. 317-234.

Gilbert, George T., to Portec, Inc. Rotary impact crusher. 3,455,517, 7-15-69, Cl. 241-189.

Gilbert, Gorge J., to Solitron Dvices, Inc., mesne. Semiconductor device with a portion having a varying lateral resistivity. 3,484,309, 12-16-69, Cl. 148-33.5

Gilbert Herman S., to Dow Chemical Company, The. Dry cleaning apparatus. 3,444,708, 5-20-69, Cl. 68-12.

Gilbert, Herman S.; and Lorette, Nicholas B., to Dow Chemical Company, The. Dry cleaning method. 3,428,412, 2-18-69, Cl. 8-142.

Gilbert, Howard W.: *See—*
Briggs, Southwick W.; and Gilbert, Howard W.,3,459,167.
Briggs, Southwick W.; and Gilbert, Howard W.,3,473,323.

Gilbert International Corporation: *See—*
Radel, Philip Harold; and Miller, Seymour Marvin, 3,430,759.

Gilbert, Jack J., to Frank, Bernard. Hand electric steaming and pressing device to touch-up hanging garments. 3,436,851, 4-8-69, Cl. 38-69.

Gilbert, Jack W.: *See—*
Deutscher, Abe; Muttart, Vincent H.; and Gilbert, Jack W.,3,432,631.

Gilbert, James E.; Kroutil, Larry O.; and Ingham, Gary G., to Roto-Swing Door Co., Inc. Panic breakaway balance door. 3,445,963, 5-27-69, Cl. 49-141.

Gilbert, John A., to Unitek Corporation. Shunt switching voltage regulated power supply. 3,428,882, 2-18-69, Cl. 321-18.

Gilbert, John A., to Unitek Corporation. Welding. 3,441,708, 4-29-69, Cl. 219-110.

Gilbert, John A.: *See—*
Laub, Joseph L.; and Gilbert, John A.,3,427,501.

Gilbert, John Harold: *See—*
Baxter, Samuel; and Gilbert, John Harold,3,467,570.

Gilbert, John Harold, to Monsanto Chemicals Limited. Foamed aliphatic resin products having elongated cells at right angles to a surface skin and their manufacture. 3,431,163, 3-4-69, Cl. 161-161.

Gilbert, John Harold, to Monsanto Chemicals Limited. Foamed polyvinylaromatic resin products having elongated cells at right angles to a surface skin and their manufacture. 3,431,164, 3-4-69, Cl. 161-161.

Gilbert, John M.: *See—*
Eaves, Maynard D.; and Gilbert, John M.,3,421,211.

Gilbert, John R.: *See—*
Bowden, George F.; and Gilbert, John R.,3,420,491.
Bowden, George F.; and Gilbert, John R.,3,446,470.
Bowden, George F.; and Gilbert, John R.,3,469,817.

Gilbert, Joseph T.: *See—*
Flynn, Paul D.; Roll, Arthur A.; and Gilbert, Joseph T.,3,434,786.

Gilbert, Lloyd. Machine for picking asparagus. 3,427,795, 2-18-69, Cl. 56-327.

Gilbert Manufacturing Company, Inc.: *See—*
Peterson, John W.; and Schick, Henry, 3,444,607.
Schick, Henry W., 3,478,860.

Gilbert, Margaret A. Stackable bedpan with spout. 3,453,664, 7-8-69, Cl. 4-112.

Gilbert, Richard Lapham, Jr.: *See—*
English, Jackson Pollard; Hickman, John Bibb; and Gilbert, Richard Lapham, Jr.,3,467,496.

Gilbert, Ronald Albert; and Shire, Ralph John, to Rolls-Royce Limited. Power plant for a helicopter. 3,483,696, 12-16-69, Cl. 60-39.16

Gilbert, Ronald J. H.: *See—*
Turnbull, John N.; and Gilbert, Ronald J. H.,3,428,552.

Gilbert, Roswell W., to Dictaphone Corporation. Electrical signal radiating apparatus. 3,423,757, 1-21-69, Cl. 343-788.

Gilbert, Roswell W., to Dictaphone Corporation. Loopstick antennas. 3,453,634, 7-1-69, Cl. 343-788.

Gilbert, Samuel, to Hydro Manufacturing, Inc. Dental syringe for oral hygiene. 3,467,082, 9-16-69, Cl. 128-66.

Gilbert, Theodore E.; and Lindemann, Otto H., to Hooker Chemical Corporation. Dip coating apparatus. 3,421,477, 1-14-69, Cl. 118-602.

Gilbert, Wayne C. Automatic cutting depth regulator for shank-type cultivators and the like. 3,433,307, 3-18-69, Cl. 172-4.

Gilbert, William E., to Spaulding Fibre Company, Inc. Hermetically sealed electrolytic cell. 3,428,869, 2-18-69, Cl. 317-230.

Gilbert, William F., Jr.: *See—*
Chegwidden, Raymond A.; Cohen, Howard M.; and Gilbert, William F., Jr.,3,479,292.

Gilbert, William Van Tyle. Rotatable and slidable gunstock. 3,442,042, 5-6-69, Cl. 42-73.

Gilbertson, Herman. Corner bit assembly for earthmoving blades. 3,456,370, 7-22-69, Cl. 37-141.

Gilbertson, Ian David: *See—*
Goodfellow, David Sydney; and Gilbertson, Ian David,3,468,115.

Gilbertson, Oswald I., to Western Electric Company, Incorporated. Method of winding and calibrating electrical coils. 3,458,929, 8-5-69, Cl. 29-605.

Gilbreath, Benjamin F. Motor control and overload protection. 3,443,189, 5-6-69, Cl. 318-345.

Gilchrist, Allan E., to SCM Corporation, mesne. Electrode assembly used in electrocoating hollow articles. 3,476,667, 11-4-69, Cl. 204-181.

Gilchrist, David J., to General Motors Corporation. Bending machine. 3,466,914, 9-16-69, Cl. 72-214.

Gilchrist, Edgar S., to Consolidated Electrodynamics Corporation. Set-point apparatus powered in series with a sensor element. 3,430,141, 2-25-69, Cl. 324-99.

Gilchrist, Ralph E., to Phillips Petroleum Company. Oil production by steam drive. 3,425,492, 2-4-69, Cl. 166-272.

Gilchrist, Ralph E.; and Cornelius, Archie J., to Phillips Petroleum Company. Method of controlling steam injection into a reservoir in the production of hydrocarbons. 3,455,384, 7-15-69, Cl. 166-272.

Gilchrist, Ralph E.; and Nance, Charles W., to Tenneco Oil Company. Method of detecting the movement of heat in a subterrane-

an hydrocarbon bearing formation during a thermal recovery process. 3,483,730, 12-16-69, Cl. 73-15.
Gilchrist, Reginald S.: *See*—
Mattingly, Denis Albert Edward; and Gilchrist, Reginald S.,3,486,320.
Gilchrist, Robert F., to Vega Manufacturing Corporation. Tapping saddle. 3,471,176, 10-7-69, Cl. 285-111.
Gilden, Aaron Robert: *See*—
Kremer, Charles J.; Lewis, Walter E. F.; and Gilden, Aaron Robert,3,458,392.
Gilder, Thomas E., to North American Rockwell Corporation. Multirange pressure measuring device. 3,439,541, 4-22-69, Cl. 73-398.
Gildersleve, David R.; and Tute, Michael S., to Pfizer, Chas., & Co., Inc. Polyhydroisoquinoline antiviral agents. 3,437,662, 4-8-69, Cl. 260-286.
Gildersleve, David R.; and Tute, Michael S., to Pfizer, Chas., & Co., Inc.4,4'-Biphenyl and diphenyl ether carboxylic acids and esters. 3,455,993, 7-15-69, Cl. 260-473.
Gildner, Kenneth J., to Picker Chromatography, Inc. Bubble injector. 3,465,951, 9-9-69, Cl. 230-160.
Giles, Ben F.; and Viger, Howard L., to Texas Instruments, Incorporated. Cancellation of horizontally traveling noise in marine seismic exploration. 3,460,064, 8-5-69, Cl. 340-15.5
Giles, Cyril George; Martin, James Alexander; and Spindlow, John Richard, to National Research Development Corporation. Vehicle guidance system. 3,431,996, 3-11-69, Cl. 180-98.
Giles, Homer W.: *See*—
Federman, Alfred P., 3,468,695.
Giles, Walter B., to General Electric Company. Air film drag reduction with viscoelastic additives. 3,455,266, 7-15-69, Cl. 114-67.
Giles, William S., to TRW Inc. Valve stem retainer and lock assembly. 3,466,009, 9-9-69, Cl. 251-337.
Giletta, Dario: *See*—
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario,3,433,695.
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario,3,434,897.
Pacciarini, Antonio; and Giletta, Dario,3,458,612.
Gilewski, Joseph F., to Electrical & Mechanical Service Co. Transfer apparatus. 3,474,800, 10-28-69, Cl. 134-46.
Gilewski, Joseph F.; and Teter, Ray E., to Electrical & Mechanical Service Co. Conveyor and novel link therefor. 3,437,190, 4-8-69, Cl. 198-131.
Gilfillan Corporation: *See*—
Green, David J.; Tasker, Raymond B.; and Davis, Donovan C., 3,450,990.
Gilford Instrument Laboratories, Inc.: *See*—
Gilford, Saul R.; and Emary, Robert J., 3,458,698.
Gilford, Saul R., 3,475,127.
Martens, Melvin; and Musson, Chester G., 3,487,458.
Gilford, Saul R., to Gilford Instrument Laboratories, Inc. Fluid sample measuring and diluting method and apparatus. 3,475,127, 10-28-69, Cl. 23-230.
Gilford, Saul R.; and Emary, Robert J., to Gilford Instrument Laboratories, Inc. Spectrophotometer lamp housing. 3,458,598, 7-29-69, Cl. 240-41.35
Gilissen, Herman Petrus Johannes, to AMP Incorporated. Electrical connector assembly and mounting means therefor. 3,437,983, 4-8-69, Cl. 339-198.
Gilissen, Herman Petrus Johannes, to AMP Incorporated. Printed circuit connector. 3,479,637, 11-18-69, Cl. 339-176.
Gilissen, Hermanus P. J., to AMP Incorporated. Electrical connector. 3,469,228, 9-23-69, Cl. 339-47.
Gilkeson, David C.: *See*—
Turula, Eugene; Lynch, Geraldine B.; and Gilkeson, David C.,3,454,327.
Gilkey, Russell: *See*—
Caldwell, John R.; and Gilkey, Russell,3,464,852.
Gill, Colm Anthony: *See*—
Freeman, Dennis Brian; and Gill, Colm Anthony,3,459,604.
Gill, Frank L.; Beutler, Warren E.; and Hanna, Edward C., to Lamson & Sessions Co., The. Flaw detection method for annular articles. 3,487,298, 12-30-69, Cl. 324-37.
Gill, Henry L.; and Heller, Lyman W., to United States of America, Navy. Soil testing apparatus. 3,457,778, 7-29-69, Cl. 73-84.
Gill, James W.; and Lim, Peter G., to Hercules, Incorporated. Recovery and purification of microbial polysaccharides. 3,422,085, 1-14-69, Cl. 260-209.
Gill, John B. Apparatus for gripping a pipe. 3,480,270, 11-25-69, Cl. 269-131.
Gill, John D.: *See*—
Wynne, James R.; and Gill, John D.,3,422,789.
Gill, Joseph; and Rouvalis, George, to Westinghouse Electric Corporation. Alternating current motor control system particularly for position regulating applications. 3,470,428, 9-30-69, Cl. 318-18.
Gill, Joseph: *See*—
Luppold, Robert H., Jr.; and Gill, Joseph,3,435,355.
Gill, Lawrence H.: *See*—
Phlipot, James R.; Gill, Lawrence H.; and Clifford, Earl W.,3,480,026.
Gill, Lester D. Pill dispenser with rotating top for discharging successive pills. 3,450,306, 6-17-69, Cl. 221-71.
Gill, Thomas H.: *See*—
Rickard, Donn J.; Holbrook, Franklin K.; Bushman, Ronald C.; Preston, Warren O.; and Gill, Thomas H.,3,448,682.
Gill, Thomas R., to GS Equipment Company. Plastic barrel and method of fabrication. 3,439,900, 4-22-69, Cl. 259-81.
Gill, William Lee; and Perkel, Harold, to Radio Corporation of America. System for switching the attitude reference of a satellite from a first celestial body to a second celestial body. 3,427,453, 2-11-69, Cl. 250-83.3
Gillam, Edward D., to Comly-Gillam Carton Corporation. Cartons for inspection. 3,455,497, 7-15-69, Cl. 229-38.
Gillard, Calvin W., to Lockheed Aircraft Corporation. Optical beam deviator. 3,438,700, 4-15-69, Cl. 350-285.
Gillard, Frederick B., 50% each to Bidstrup, Peter G., and Jones, Robert I. Complete prosthetic denture and method for self- fitting. 3,464,111, 9-2-69, Cl. 32-2.
Gillberg, Gunnar Arne. Water tap. 3,481,360, 12-2-69, Cl. 137-315.
Gillead, J. Foster. Shoe heel with rotatable lift. 3,478,447, 11-18-69, Cl. 36-36.
Gillen, Lawrence E.: *See*—
Aichenegg, Paul C.; Emerson, Carl D.; and Gillen, Lawrence E.,3,428,665.
Aichenegg, Paul C.; and Gillen, Lawrence Edward,3,454,679.
Giller, Ronald R., to Dictograph Products, Inc. Rigid in-the-ear hearing aid. 3,448,224, 6-3-69, Cl. 179-107.
Gillery, Frank H., to PPG Industries, Inc. Metal-tungsten bronze films. 3,457,106, 7-22-69, Cl. 117-33.3
Gillery, Frank H.; Pressau, Jean P.; and Lewis, Charles W., to PPG Industries, Inc. Sputtering of metals in an atmosphere of fluorine and oxygen. 3,477,936, 11-11-69, Cl. 204-192.
Gilles, Jack C., to Goodrich, B. F., Company, The. Hindered bisphenol antioxidants and their preparation. 3,457,316, 7-22-69, Cl. 260-619.
Gilles, Jack C., to Goodrich, B. F., Company, The. Hindered bisphenol antioxidants and their preparation and use in polyolefins. 3,485,795, 12-23-69, Cl. 260-45.95
Gilles, Raymond H., to Continental Products of Texas. Methods of removing and reclaiming ammonia ions from water. 3,475,330, 10-28-69, Cl. 210-25.
Gilles, Wallace; Yamasaki, George K.; and Burger, J. C., to Westinghouse Electric Corporation. Hollow chathode electron discharge device for generating spectral radiation. 3,476,970, 11-4-69, Cl. 313-209.
Gillespie, Frank C.: *See*—
Metcalfe, Kenneth A.; Gillespie, Frank C.; and Smith, Ian E.,3,476,935.
Gillespie, Gerald J.: *See*—
Detrick, Robert S.; and Gillespie, Gerald J.,3,449,152.
Gillespie, James Francis, to AMP Incorporated. Grounding connector. 3,453,377, 7-1-69, Cl. 174-75.
Gillespie, Peter James, to Energy Conversion Limited. Electrochemical cell arrangements. 3,468,712, 9-23-69, Cl. 136-86.
Gillespie, Richard L., Sr.: *See*—
Cook, Donald L.; Hansen, Douglas R.; and Gillespie, Richard L., Sr.,3,463,361.
Gillet, Claude: *See*—
Buu-Hoi, Nguyen P.; Lambelin, Georges; Lepoivre, Constan; Gillet, Claude; and Thiriaux, Jacques,3,479,396.
Gillet, William J., to Parker-Hannifin Corporation. Coining apparatus. 3,453,859, 7-8-69, Cl. 72-412.
Gillett, Glenn D., to United States of America, Air Force, mesne. Heat shrinkable plastic soldering sleeve. 3,451,609, 6-24-69, Cl. 228-56.
Gillett Tool Co., Inc.: *See*—
Long, Emile David, 3,437,188.
Gillette, Allen K.: *See*—
Ferris, Robert G.; and Gillette, Allen K.,3,443,547.
Ferris, Robert G.; Gillette, Allen K.; and Ferris, Howard J.,3,464,390.
Gillette Company, The: *See*—
Flynn, John Barry, 3,454,198.
Hantman, Lionel L.; Lutz, Eugene F.; and Schroeder, George A., 3,474,795.
Lewiecki, Edward M.; and Shnitzler, Meyer J., 3,428,223.
Lowry, Alan B., 3,460,712.
Markey, Joseph Thomas, 3,465,571.
Martin, Frank Samuel, 3,465,935.
McGill, Thomas Alan; and Hoffman, John George, Jr., 3,443,731.
Nissen, Warren I., 3,421,219.
Nissen, Warren I.; and Atwater, Robert M., 3,461,616.
Perry, Roger Leslie, 3,484,939.
Pickel, James Brennan, 3,431,624.
Rum, Thomas J., 3,466,022.
Samsing, Rolf A., 3,429,451.
Sinclair, Robert L., 3,427,084.
Watson, Peter M. F., 3,448,548.
Webster, Milo Edward, 3,465,918.
Webster, Milo Edward, 3,465,922.

Webster, Milo Edward, 3,482,784.
Gillette France S.A.: *See*—
Cardinet, Guy; and Faudemay, Edmond Lucien Jean, 3,448,684.
Gillette, Garry Carter: *See*—
Ball, Newton E.; and Gillette, Garry Carter,3,448,398.
Gillette, Garry C., to Dana Laboratories, Inc. Circuit for converting resistance values of unknown resistor to electrical potential signal for measurement purposes. 3,437,925, 4-8-69, Cl. 324-62.
Gillette, Thomas W.: *See*—
Patton, John T.; and Gillette, Thomas W.,3,440,177.
Gillham, Helen Currier: *See*—
Epstein, Martin; Buckler, Sheldon A.; Sherr, Allan Ellis; and Gillham, Helen Currier,3,459,833.
Mosby, William Lindsay; Gillham, Helen Currier; and Sherr, Allan Ellis,3,439,005.
Gillham, Helen Currier; and Sherr, Allan Ellis, to American Cyanamid Company. Flame-retardant agents for thermoplastic products. 3,431,324, 3-4-69, Cl. 260-893.
Gilli, Paul, to Waagner-Biro Aktiengesellschaft. Method and arrangement for generating energy from nuclear fission in a high temperature reactor. 3,444,401, 5-13-69, Cl. 310-11.
Gilliam, Clarence W.: *See*—
Bliss, Billy R.; Gilliam, Clarence W.; and Laswell, John E.,3,473,472.
Gilligan, Thomas J.; and Nozaki, Arthur T., to Electronic Memories, Inc. System for driving a magnetic core memory. 3,466,633, 9-9-69, Cl. 340-174.
Gilligan, William H.; and Oda, Takahiko A., to United States of America, Army. Difluoroamino compounds and methods of preparation. 3,474,145, 10-21-69, Cl. 260-583.
Gillilan, Edward, to Cherry Electrical Products Corporation. Magnetically actuated snap action switch. 3,449,700, 6-10-69, Cl. 335-188.
Gilliland, Harold E., to Continental Oil Company. In situ retorting of oil shale using CO_2 carrier. 3,480,082, 11-25-69, Cl. 166-266.
Gilliland, Joe E.: *See*—
White, Wayne E.; Munn, James M.; Gilliland, Joe E.; and Wright, Benny B.,3,463,605.
Gilliom, John W., to Tappan Company, The. Built-in oven cooling system. 3,485,229, 12-23-69, Cl. 126-21.
Gillis, Edward Allan, to Allis-Chalmers Manufacturing Company. High temperature fuel cell electrolyte carrier. 3,432,363, 3-11-69, Cl. 136-153.
Gillissen, Josef: *See*—
Schulte, Karl; Fruhstorfer, Wolfgang; Muller, Heinrich; Friebel, Hans; Enenkel, Hans Joachim; and Gillissen, Josef,3,461,164.
Gillon, John: *See*—
Brooker, Peter John; Gillon, John; Newbold, Geoffrey Tattersall; and Saggers, David Thomas,3,422,198.
Gillono, Matteo; and Alberto, Pietro. Device for loading and unloading spindles. 3,442,072, 5-6-69, Cl. 57-53.
Gillot, Jacques: *See*—
Goldberger, William M.; and Gillot, Jacques,3,457,049.
Gilman, David John, to Imperial Chemical Industries Limited. Antidepressant compositions and methods employing α-aminodesoxybenzoin derivatives. 3,470,301, 9-30-69, Cl. 424-331.
Gilman, Paul B.; Goffe, Charles A.; and Jones, Jean E., to Eastman Kodak Company. Radiation sensitive silver-dye complexes. 3,446,619, 5-27-69, Cl. 96-63.
Gilman, Robert J.; and King, George L., to R F L Industries, Inc. High speed data transmission system which modulates a high frequency, FSK oscillator to a lower transmission frequency. 3,470,473, 9-30-69, Cl. 325-30.
Gilman, Robert W., to California Pellet Mill Company. Axial extrusion mill. 3,422,748, 1-21-69, Cl. 100-93.
Gilmartin, John A., to TRW Inc. Caging mechanism. 3,474,688, 10-28-69, Cl. 74-527.
Gilmer, Deward W. Net. 3,484,981, 12-23-69, Cl. 43-105.
Gilmont, Roger, Instruments, Inc.: *See*—
Gilmont, Roger, 3,433,077.
Yamaguchi, Masatoshi; Howard, Frederick D.; and Pratt, Harlan K.; 3,459,032.
Gilmont, Roger, to Cole-Parmer Instrument and Equipment Company. Micrometric dispenser. 3,430,813, 3-4-69, Cl. 222-43.
Gilmont, Roger, to Gilmont, Roger, Instruments, Inc. Compensated syringe manometer. 3,433,077, 3-18-69, Cl. 73-401.
Gilmont, Roger; and Parkinson, Martin C., to Virtis Company, Inc., The. Vacuum gauge assembly. 3,453,890, 7-8-69, Cl. 73-400.
Gilmont, Roger; and Parkinson, Martin C., to Virtis Company, Inc., The. Vacuum gauge assembly. 3,478,779, 11-18-69, Cl. 137-615.
Gilmore, John A., to Montecito Manufacturing Co. Ironing machine for flatwork. 3,483,645, 12-16-69, Cl. 38-143.
Gilmore, John P.: *See*—
Oshida, Otto A.; Gilmore, John P.; and Lowe, James H.,3,441,515.
Gilmore, Ronald P.: *See*—
Adair, James C.; Baier, William E., Jr.; Gilmore, Ronald P.; and Wottlin, William O.,3,483,505.
Gilmore, Samuel E. Air dumping control mechanism for self priming pumps. 3,474,735, 10-28-69, Cl. 103-113.
Gilmore, William J.; and Peterson, Vincent C. J., to American Chain & Cable Company, Inc. Tow part self-discharging wire. 3,465,743, 9-9-69, Cl. 124-18.
Gilmour, Alexander S., Jr., to Cornell Aeronautical Laboratory, Inc. Vacuum arc gettering pump. 3,437,260, 4-8-69, Cl. 230-69.
Gilmour, Jack L.: *See*—
Frantz, Robert N.; Ryszewski, Vincent J.; and Gilmour, Jack L.,3,441,289.
Gilmour, James, Jr. Axle mount. 3,454,305, 7-8-69, Cl. 301-1.
Gilmour, James, Jr. Axle mount. 3,476,416, 11-4-69, Cl. 287-52.04
Gilmour, Richard C.: *See*—
Corrigan, James D.; Bowers, Lester T.; Gilmour, Richard C.; and Wolff, Robert A.,3,436,521.
Gilpin, William V., to Universal Controls Corporation. Pressure test plug and means for bypassing gas meters. 3,438,397, 4-15-69, Cl. 137-599.
Gilpin, William V., to Universal Controls Corporation. Probe apparatus for changing gas meters. 3,444,724, 5-20-69, Cl. 73-40.5
Gilpin, William W. R.: *See*—
Renaud, Edward H.; and Gilpin, William W. R.,3,444,029.
Gilreath Hydraulics, Inc.: *See*—
Gilreath, Lafayette E.; and Pollard, Charles, 3,435,732.
Gilreath, Lafayette E., to Perfection Engineering Co., Inc. Centrifugal separator. 3,430,850, 3-4-69, Cl. 233-7.
Gilreath, Lafayette E.; and Pollard, Charles, to Gilreath Hydraulics, Inc. Hydraulically powered drilling sub. 3,435,732, 4-1-69, Cl. 91-135.
Gilson Bros. Co.: *See*—
Enters, Edward W., 3,483,763.
Enters, Edward W., 3,483,938.
Price, Warren H., 3,449,981.
Price, Warren H., 3,483,684.
Gilson, James R.: *See*—
Catlett, John C.; and Gilson, James R.,3,425,161.
Catlett, John C.; and Gilson, James R.,3,457,674.
Gilson, John L.; and Larson, Gail V., to Dick, A.B., Company. Stencil duplicating paste ink. 3,421,910, 1-14-69, Cl. 106-14.5
Gilson Medical Electronics, Inc.: *See*—
Gilson, Warren E., 3,486,983.
Gilson, Robert John, to Colston, Charles, Limited. Rack for drying articles. 3,464,566, 9-2-69, Cl. 211-71.
Gilson Screen Company: *See*—
Tonjes, Burl D., 3,439,800.
Tonjes, Burl D., 3,481,468.
Gilson, Warren E., to Gilson Medical Electronics, Inc. Respirometer. 3,486,983, 12-30-69, Cl. 195-127.
Gilstrap, James B. Aircraft glide slope indicator. 3,474,406, 10-21-69, Cl. 340-25.
Giltech Corporation: *See*—
Schjeldahl, Gilmore T.; Carlsen, Harry R.; and Eumurian, Charles, 3,480,993.
Giltinan, Thomas L., to United States of America, Air Force. Automatic liquid level detector, using reflection from the meniscus. 3,452,208, 6-24-69, Cl. 250-218.
Giltner, Charles M., to Ametek, Inc. Self-erecting spiral tube device. 3,467,329, 9-16-69, Cl. 242-54.
Gilvey, John P.; and Hershoff, Leonard, to International Business Machines Corporation. Mica membrane mounting structure for cathode ray storage tube. 3,445,707, 5-20-69, Cl. 313-68.
Gilwood, Martin E.; and des Chatelets, Jean, to Pall Corporation. Water clarifier and water clarification method. 3,481,868, 12-2-69, Cl. 210-19.
Gimigliano, Joseph P., to Jones & Laughlin Steel Corporation. Vacuum vapor deposition-control of coating profile. 3,455,730, 7-15-69, Cl. 117-107.1
Gimigliano, Joseph P.; and Butler, John Francis, to Jones & Laughlin Steel Corporation. Generation of liquid-free metal vapor. 3,458,347, 7-29-69, Cl. 117-107.
Gimmler, Joachim, to Fichtel & Sachs A.G. Drive arrangement for an automotive vehicle. 3,472,023, 10-14-69, Cl. 60-12.
Gimpel, Donald J.; and Nelson, Arthur L., to Electro Oceanics, Inc., mesne. Fluidproof electrical connector. 3,478,297, 11-11-69, Cl. 339-60.
Ginaven, Marvin E., to Bauer Bros., Co., The. Dewatering device. 3,451,555, 6-24-69, Cl. 210-433.
Ginaven, Marvin E., to Bauer Bros. Co., The. Dewatering equipment. 3,452,876, 7-1-69, Cl. 210-409.
Ginaven, Marvin E.; and Adams, Albert H., to Bauer Bros., Co., The. Press structure. 3,460,466, 8-12-69, Cl. 100-117.
Gindele, Woodbury A. Device for attaching a shrimp-like body to a fishing hook. 3,464,590, 8-19-69, Cl. 43-4.
Ginder, Paul, to Burton Silverplating Co. Multilayer magnetic coating. 3,479,156, 11-18-69, Cl. 29-183.5
Giner, Jose D., to Leesona Corporation, mesne. Electrochemical cell containing an electrode com- prising a catalytic layer consisting of uniformly dispersed catalytic metal particles and a hydro- phobic polymer, and (in contact with the cell electrolyte) a separate porous metal layer. 3,438,815, 4-15-69, Cl. 136-86.

Giner, Jose D., to United Aircraft Corporation. Method and apparatus for converting hydrogen- containing feedstocks into electrical energy. 3,446,672, 5-27-69, Cl. 136-86.
Giner, Jose D., to United Aircraft Corporation. Method and apparatus for converting hydrogen- containing feedstocks. 3,446,674, 5-27-69, Cl. 136-86.
Giner, Jose D., to Leesona Corporation, mesne. Method of operating fuel cell. 3,467,551, 9-16-69, Cl. 136-86.
Giner, Jose D., to Leesona Corporation, mesne. Electrochemical fuel cell. 3,467,552, 9-16-69, Cl. 136-86.
Giner, Jose: *See—*
Sizer, John H., Jr.; and Giner, Jose,3,470,028.
Gineste, Robert Maurice, to ARCA Premoncontrole. Measuring apparatus delivering pulses at a frequency proportional to the measurement. 3,455,166, 7-15-69, Cl. 73-398.
Gingery, Wayne Paul, to Clutch Research and Development Co. Dual splined shaft assembly for a clutch. 3,465,860, 9-9-69, Cl. 192-70.16
Gingher, Carl E. Combined garment hanger. 3,455,491, 7-15-69, Cl. 223-91.
Gingher, Carl E. Hanger stem. 3,480,245, 11-25-69, Cl. 248-317.
Gingrich, Richard I., to Owens-Illinois, Inc. Grinding fixture for television funnels. 3,456,398, 7-22-69, Cl. 51-227.
Ginn, David L., to McDonnell Douglas Corporation, mesne. Restraint latch. 3,465,998, 9-9-69, Cl. 248-361.
Ginnette, Lewis F.; and Scalf, William R., to FMC Corporation. Apparatus for introducing substance into vacuum chamber. 3,430,454, 3-4-69, Cl. 62-353.
Ginsberg, Leon, to Precision Electronic Components Ltd. Variable resistor. 3,446,085, 5-27-69, Cl. 74-89.14
Ginsberg, Michael J.; and Krock, Richard H., to Mallory, P. R., & Co., Inc. Alloys for brazing silicon nitride material. 3,428,450, 2-18-69, Cl. 75-170.
Ginsburgh, Irwin; and Pennington, Benjamin D., to Standard Oil Company (Indiana). Injection leak sealing apparatus and method. 3,472,285, 10-14-69, Cl. 138-97.
Ginsburgh, Irwin: *See—*
Wright, Lawrence T.; and Ginsburgh, Irwin,3,453,538.
Ginsig, Robert, to Syntex Corporation. Process for the preparation of alkynyl carbinols. 3,470,217, 9-30-69, Cl. 260-397.4
Ginter, Robert Aloyious: *See—*
Wilken, George Henry; and Ginter, Robert Aloyious,3,431,779.
Ginther, Fred J.: *See—*
Small, William A.; and Ginther, Fred J.,3,423,027.
Gintz, Francis Paul; Matthews, Richard Ohn Strachan; and Peirce, Goderey Malcolm, to Distillers Company Limited, The. Two-stage polymerisation process for chloroprene. 3,444,152, 5-13-69, Cl. 260-92.3
Gioia, Steve C.; and Fricke, Louis H., Jr., to Monsanto Company. Zero supperssion circuit for differential amplifiers. 3,477,034, 11-4-69, Cl. 330-69.
Giolito, Francois: *See—*
Benoit, Odile; and Giolito, Francois,3,464,925.
Giolito, Francois; and Philippe, Jean, to Progil. Thermostable mixtures of diphenoxybenzenes and mono- and diphenoxydiphenyls usable as functional liquids. 3,429,816, 2-25-69, Cl. 252-52.
Giolito, Silvio L., to Stauffer Chemical Company. Acylated bis(diphenylphosphinodithioates). 3,454,678, 7-8-69, Cl. 260-926.
Giolito, Silvio L., to Stauffer Chemical Company. Polyolefins stabilized with acylated diarylphos- phinodithioates. 3,475,370, 10-28-69, Cl. 260-45.7
Giolitti, Nicolo: *See—*
Gassino, Teresio; and Giolitti, Nicolo,3,448,844.
Gionet, Edmond R.: *See—*
Doveinis, Juozas; Gionet, Edmond R.; and Wittenberg, William J.,3,466,802.
Giontzeneli, Kiamil, to Radio Corporation of America. Direct coupled amplifier including two-stage automatic gain control. 3,421,100, 1-7-69, Cl. 330-19.
Giordani, Roberto: *See—*
Donato, Luigi; Gennaro, Gianni; and Giordani, Roberto,3,428,805.
Giordano, Ames F.; and Caldwell, Walter H., to International Telephone and Telegraph Corporation. Time division multiplex channel pulse distributor. 3,441,674, 4-29-69, Cl. 179-15.
Giordano, Anthony, Jr.: *See—*
Magda, Robert J.; and Giordano, Anthony, Jr.,3,446,165.
Giordano, Etienne. Apparatus for imposing a respiratory cycle to a patient. 3,424,147, 1-28-69, Cl. 128-1.
Giordano, Nicola; Cavaterra, Enrico; and Fattore, Vittorio, to Montecatini Edison S.p.A. Catalytic process for the preparation of acrylonitrile or methacrylonitrile. 3,471,545, 10-7-69, Cl. 260-465.3
Giordano, Nicola: *See—*
Caporali, Giorgio; and Giordano, Nicola,3,445,501.
Caporali, Giorgio; Ferlazzo, Natale; Giordano, Nicola; and Faletti, Franco,3,452,077.
Giordano, Roger Francois, to Promecam Sisson-Lehmann, Societe Anonyme. Bending machine. 3,440,847, 4-29-69, Cl. 72-12.
Giordano, Salvatore T., to United States of America, Atomic Energy Commission. Accelerator apparatus and method of shaping cavity fields. 3,466,554, 9-9-69, Cl. 328-233.
Giordmaine, Joseph A., to Bell Telephone Laboratories, Incorporated. Continuously tunable parametric oscillator. 3,454,902, 7-8-69, Cl. 331-96.
Giordmaine, Joseph A., to Bell Telephone Laboratories, Incorporated. Optical beam peak power amplifier and buncher. 3,459,466, 8-5-69, Cl. 350-160.
Giordmaine, Joseph A.; and Kaiser, Wolfgang K., to Bell Telephone Laboratories, Incorporated. Optical mode selector. 3,478,277, 11-11-69, Cl. 331-94.5
Giordmaine, Joseph A.: *See—*
Duguay, Michel A.; Giordmaine, Joseph A.; and Rentzepis, Peter M.,3,453,429.
Giorgetti, Francesco, to Societa Italiana Telecommunicazioni Siemens S.p.A. Coupling network for wide-band IF amplifiers. 3,426,288, 2-4-69, Cl. 330-21.
Giorgi, Angelo L.: *See—*
Krupka, Milton C.; Giorgi, Angelo L.; Krikorian, Nerses H.; and Szklarz, Eugene G.,3,482,940.
Giorgi, Jean Claude: *See—*
Dambrine, Francis; and Giorgi, Jean Claude,3,450,263.
Giori, Gualtiero. Apparatus for removing ink from the surface of wiping cylinders used in direct steel plate printing. 3,468,248, 9-23-69, Cl. 101-167.
Giovagnoli, Paul S. Automatic car washing apparatus. 3,460,548, 8-12-69, Cl. 134-58.
Giovanetti, Albert; and Sanders, Richard F., to PPG Industries, Inc. Process for recovering pigmentary titanium dioxide from non-pigmentary waste titanium dioxide. 3,460,957, 8-12-69, Cl. 106-300.
Gipp, Wilbert O., to Case, J. I., Company. Isolated platform mounting. 3,438,672, 4-15-69, Cl. 296-35.
Gippin, Morris, to Firestone Tire & Rubber Company, The. Neutralization of impurities in isoprene polymerization. 3,442,878, 5-6-69, Cl. 260-82.1
Giraitis, Albert P.: *See—*
Johnston, James D.; and Giraitis, Albert P.,3,459,514.
Giraldi, Pier Nicola; Lauria, Francesco; Fojanesi, Alessandro; Nannini, Giuliano; and Logemann, Willy, to Carlo Erba S.p.A,. Keto-acid derivatives of benzofuranes and their preparation. 3,458,533, 7-29-69, Cl. 260-346.2
Giraldi, Pier Nicola: *See—*
Lauria, Francesco; Giraldi, Pier Nicola; Francavilla, Pier Nicola; Nannini, Giuliano; and Logemann, Willy,3,452,085.
Girard, Andre Jean, to Office National d88Etudes et de Recherches Aerospatiales. Spectrometric apparatus of high resolving power. 3,432,238, 3-11-69, Cl. 356-97.
Girard, Andre Jean, to Office National d88Etudes et de Recherches Aerospatiales. Radiation gate of spectrometric apparatus. 3,432,241, 3-11-69, Cl. 356-99.
Girard, Andre J.; and Berny, Jean G., to Office National d'Etudes et de Recherches Aerospatiales. Stellar spectrometer. 3,454,338, 7-8-69, Cl. 356-97.
Girard, Bernard: *See—*
Auchapt, Pierre; Girard, Bernard; and Sautray, Roger,3,445,346.
Girard, Ernest J., to North Shore Shingle Co., Ltd. Shingle cutting machine. 3,467,154, 9-16-69, Cl. 143-115.
Girard, Ernest J., to North Shore Shingle Co. Ltd. Shingle drying apparatus. 3,483,961, 12-16-69, Cl. 198-20.
Girard, Harry J., 1/2 to Knapp, Mary M. Internal cleaning device for pipe lines. 3,460,180, 8-12-69, Cl. 15-104.06
Girard, Harry J. Pipe line cleaning device. 3,474,479, 10-28-69, Cl. 15-104.06
Girard, Harry J. Pipe line pig. 3,484,886, 12-23-69, Cl. 15-104.06
Girard, Laurent H., to American Velcro Inc. Composite length of pile fabric sheet material. 3,426,363, 2-11-69, Cl. 2-338.
Girard, Laurent H., to American Velcro, Inc. Skiving apparatus. 3,431,679, 3-11-69, Cl. 51-5.
Girard, Laurent H., to American Velcro, Inc. Heat sealing apparatus. 3,449,195, 6-10-69, Cl. 156-443.
Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C., to American Velcro, Inc. Separable fastening device. 3,461,513, 8-19-69, Cl. 24-204.
Girard, Len M. Toilet tissue dispenser. 3,475,067, 10-28-69, Cl. 312-39.
Girard, Peter F., to Ryan Aeronautical Co., The. Aircraft with flapped rotor/wing. 3,464,650, 9-2-69, Cl. 244-7.
Girard, Roland T.: *See—*
Hamlen, Robert P.; Nilson, Ronald R.; and Girard, Roland T.,3,481,788.
Girard, Theodore A., to Tenneco Chemicals, Inc., mesne. Aqueous surface-coating compositions containing polysaccharide thickeners. 3,438,915, 4-15-69, Cl. 260-17.4
Girard-Perregaux et Cie S.A.: *See—*
Jaquet, Francis, 3,465,515.
Girardiere, Gustave: *See—*
Lubet-Moncla, Xavier Lucien, 3,431,907.

Girardin, Elmer F. Door frame setting jig. 3,439,401, 4-22-69, Cl. 29-200.
Giraud, Denise C.; Barlow, Gordon A.; and Glass, Marvin I., to Glass, Marvin, & Associates. Board game apparatus with upwardly spring-biased playing pieces. 3,462,153, 8-19-69, Cl. 273-134.
Giraud, Denise C.; Janiszewski, Anthony T.; and Glass, Marvin I., to Glass, Marvin, & Associates. Racing game with chance positionable removable hurdles. 3,481,605, 12-2-69, Cl. 273-134.
Giraud, Denise C.; Meyer, Burton C.; and Glass, Marvin I., to Glass, Marvin, & Associates. Board game apparatus with concealed, upwardly projectable playing piece. 3,462,154, 8-19-69, Cl. 273-135.
Giraud, Denise C.: *See*—
Glass, Marvin I.; Giraud, Denise C.; and Licitis, Gunars,3,437,338.
Giraud, Francois Louis, to Bertin et Compagnie. Surface effect devices with fluid amplifier stabilizing means. 3,439,772, 4-22-69, Cl. 180-118.
Giraud, Jacques, to L'Aluminium Francais. Torque converter and method of manufacture. 3,482,400, 12-9-69, Cl. 60-54.
Giraud, Robert Louis, to Parsons & Whittemore. Shearing machines for strip products, particularly to those used in the corrugated board industry. 3,424,041, 1-28-69, Cl. 83-76.
Girault, Jean; and Pandelle, Jean, to CSF-Compagnie Generale de Telegraphie Sans Fil. Magnetic coder for transmitting the angular position of a shaft. 3,435,448, 3-25-69, Cl. 340-347.
Girault, Pierre: *See*—
Allais, Andre; and Girault, Pierre,3,445,469.
Allais, Andre; and Girault, Pierre,3,445,480.
Allais, Andre; and Girault, Pierre,3,449,347.
Giravions Dorand: *See*—
Dorand, Pierre Rene Leon Bernard, 3,456,904.
Dorand, Pierre Rene Leon Bernard, 3,478,987.
Kretz, Marcel, 3,481,560.
Girden, Barney B. Method of controlling smog. 3,465,964, 9-9-69, Cl. 239-2.
Girdler Corporation: *See*—
Bocard, Joseph P.; and Harvin, Richard L., 3,469,934.
Browne, Robert Y., 3,442,626.
Bryan, Harry A.; and Reynolds, Joseph C., 3,437,124.
Herp, Henry Carl, Jr.; Kelsall, Avery Crowell; Bowker, Gordon Stanley; and Bennett, Hilton Alvin, Jr., 3,453,087.
Herp, Henry Carl, Jr., 3,484,215.
Kelsall, Avery Crowell, 3,479,143.
Mayland, Bertrand J.; and Brandon, Charles S., 3,442,632.
Mayland, Bertrand J.; Trimarke, Carl Robert; Harvin, Richard L.; and Brandon, Charles S., 3,477,832.
Mayland, Bertrand J.; and Steinberger, Robert John, 3,485,743.
Girdner, William I., to Hewlett-Packard Company. Method of making an electromagnetic transducer. 3,475,815, 11-4-69, Cl. 29-603.
Girling, Alfred Ernest, to National Research Development Corporation. Magnetic tape recorder for recording alternate blocks of digital signal data on the same track. 3,482,230, 12-2-69, Cl. 340-174.1
Girling Limited: *See*—
Avner, David Alan, 3,427,415.
Brittain, Frank Eustace, 3,442,182.
Brittain, Frank Eustace, 3,479,068.
Cock, Donald J.; and Habgood, Gordon A., 3,435,691.
Craske, Haydn L., 3,421,602.
Dawson, Stuart Bruce, 3,427,929.
Farr, Glyn P. R., 3,442,357.
Farr, Glyn P. R., 3,463,054.
Goddard, Arthur, 3,470,984.
Green, Martin; and Campbell, Roy, 3,459,458.
Hales, Eric Charles, 3,449,018.
Hambling, Stewart Kevern, 3,422,934.
Harrison, Anthony W., 3,435,925.
Harrison, Anthony William, 3,442,353.
Hemus, Robert B., 3,432,010.
Hoenick, Hermann Hans, 3,428,152.
Hoenick, Hermann Hans; and Beller, Hans Albert, 3,459,282.
Lawrie, William David, 3,473,850.
Lee, Ronald, 3,435,926.
Margetts, Hugh G., 3,443,670.
Moyes, Gordon Haswell, 3,427,807.
Newstead, Charles, 3,448,831.
Newstead, Charles, 3,459,283.
Newstead, Charles, 3,464,524.
Newstead, Charles, 3,464,525.
Newstead, Charles, 3,474,683.
Newstead, Charles, 3,482,460.
Rath, Heinrich Bernhard, 3,480,116.
Redmayne, Leonard; and Wade, Maurice A, 3,470,985.
Rivett, Anthony B., 3,455,416.
Schuchmann, Gerhard Ernst Ludwig Otto; Rath, Heinrich Bernhard; and Hoenick, Hermann Hans, 3,421,603.
Wilson, Alexander John; Coldfield, Sutton; and Ingham, Peter Charles, 3,422,932.
Yardley, Alfred, 3,422,621.
Giros, Marcel A., to Societe Spiralex S.A. Devices for the continuous treatment of wires or metallic strips. 3,455,133, 7-15-69, Cl. 72-46.
Gissel, Richard A.: *See*—
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C.,3,444,395.
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C.,3,445,680.
Gisser, Henry: *See*—
Mertwoy, Helen; and Gisser, Henry,3,426,076.
Gisslen, Jan M.: *See*—
Saferstein, Samuel D.; and Gisslen, Jan M.,3,452,542.
Gister, Sidney; and Kronenthal, Richard L., to Ithicon, Inc. Method for swelling and dispersing collagen. 3,455,776, 7-15-69, Cl. 162-2.
Gitlin, Manuel M.; and Levy, Chauncey F., Jr. Spectacle frame having detachable lenses and inwardly curved temples. 3,475,083, 10-28-69, Cl. 351-41.
Gits Bros. Mfg. Co.: *See*—
Jensen, Hans, 3,420,585.
Gittelson, Stanley B. Portable incubator. 3,470,866, 10-7-69, Cl. 128-1.
Gitten, Lawrence J.; and Newby, Neal D., to Bell Telephone Laboratories, Incorporated. Special calling feature control arrangement for telephone switching system. 3,445,602, 5-20-69, Cl. 179-18.
Gittinger, Norman C., to General Electric Company. Self-checking system for a vehicle separation. 3,459,937, 8-5-69, Cl. 246-34.
Gittinger, Norman C., to General Electric Company. Rail vehicle location and control system. 3,476,932, 11-4-69, Cl. 246-187.
Gittings, Donald R., to International Datacon Inc. Data procesing apparatus. 3,458,123, 7-29-69, Cl. 234-32.
Gittleman, Morris. Pipe coupling. 3,479,066, 11-18-69, Cl. 285-236.
Gittler, Frank L., to Bell Telephone Laboratories, Incorporated. Impurity diffusion source and method. 3,476,621, 11-4-69, Cl. 148-189.
Gitzen, Walter H.; and Hart, Leroy D., to Aluminum Company of America. Process for producing kappa alumina. 3,443,894, 5-13-69, Cl. 23-142.
Gitzen, Walter H.; and Hart, Leroy D., to Aluminum Company of America. Process for producing kappa alumina. 3,443,895, 5-13-69, Cl. 23-142.
Gitzen, Walter H.; and Mac Zura, George, to Aluminum Company of America. Production of ceramic bodies. 3,432,313, 3-11-69, Cl. 106-46.
Giudicelli, Don Pierre Rene Lucien; and Najer, Henry, to Les Laboratoires Dausse. Coumarine derivative. 3,438,988, 4-15-69, Cl. 260-253.
Giudici, Livio L., to General Electric Company. Lamp phosphor adherence. 3,424,606, 1-28-69, Cl. 117-33.5
Giuffre, Anthony A. Humidity and temperature control apparatus. 3,469,412, 9-30-69, Cl. 62-173.
Giuffrida, Anthony J., to Ionics, Incorporated. Stable anode and method for making the same. 3,454,472, 7-8-69, Cl. 204-29.
Giuffrida, Philip, to Electronics Corporation of America. Electrical control circuitry for use in combustion supervision systems. 3,433,572, 3-18-69, Cl. 431-31.
Giuiuzza, Pietro, to O.M.C.S.A. Officine Mecniche Cigardi S.p.A. Multi-unit printing machine drive control. 3,447,456, 6-3-69, Cl. 101-183.
Giuliano, James C. Shank button tacker attachment for industrial sewing machines. 3,469,546, 9-30-69, Cl. 112-114.
Giulie, Joe D., to Icore Industries. Segregating device. 3,433,343, 3-18-69, Cl. 193-31.
Giulietti, Luciano, to RIV-SKF Officine di Villar Perosa S.p.A. Valve tappets and method of making same. 3,431,896, 3-11-69, Cl. 123-90.
Giunta, Joseph S.: *See*—
Bales, John W., Jr.; and Giunta, Joseph S.,3,448,771.
Giusti, Aldo J. Apparatus for stripping brussels sprouts. 3,428,048, 2-18-69, Cl. 130-30.
Giusti, Edmund C.: *See*—
Oberg, Hugh E., 3,421,472.
Givaudan Corporation: *See*—
Eschinasi, Emile H.; and Cotter, Mary Lou, 3,439,042.
Eschinasi, Emile H., 3,455,997.
Kitchens, Garry C.; and Dahill, Robert T., Jr., 3,475,484.
Lamparsky, Hans Dietmar; and Marbet, Roman, 3,470,209.
Marbet, Roman, 3,452,105.
Sandermann, Wilhelm; and Bruns, Klaus, 3,427,328.
Wood, Thomas F.; and Achuff, Nancy E., 3,442,640.
Givaudin Corporation: *See*—
Naves, Yves Rene; and Ochsner, Paul Albert, 3,461,138.
Given, Kenneth M., deceased0 (by Given, Marian K.; executrix). Tagging machine. 3,434,441, 3-25-69, Cl. 112-104.
Given, Marian K.: *See*—
Given, Kenneth M.,3,434,441.
Givens, William R.: *See*—
Jewell, David E.; and Givens, William R.,3,480,269.
Givens, Wyatt W., to Mobil Oil Corporation. Pulsed neutron well logging technique and system. 3,434,161, 3-25-69, Cl. 250-83.1

Givens, Wyatt W., to Mobil Oil Corporation. Pulsed neutron well logging technique and system. 3,435,216, 3-25-69, Cl. 250-83.1
Givens, Wyatt W., to Mobil Oil Corporation. Production of chemistry-dependent gamma ray and thermal neutron logs corrected for porosity. 3,435,217, 3-25-69, Cl. 250-83.1
Givot, Martin D.; and Stuart, Marshall J., to Marshall Aluminum Products Inc. Corner construction. 3,425,725, 2-4-69, Cl. 287-189.35
Givry, Jean-Pierre: *See—*
Morel, Paul; Givry, Jean-Pierre; and Scalliet, Robert,3,421,995.
Giwosky, Harry L., to Realist, Inc. Riflescope with O-ring support and multiple lead fine threaded eyepiece. 3,464,758, 9-2-69, Cl. 350-10.
Gjerde, Erwin G. Supplementary firing system. 3,457,902, 7-29-69, Cl. 122-7.
Gjerde, Trygve, to A/S Stormbull. Anchor device for steel reinforcing cables. 3,422,592, 1-21-69, Cl. 52-704.
GK Industries, Inc.: *See—*
Sokol, Herbert Z., 3,421,664.
G.K.N. Group Services Limited: *See—*
Davies, Douglas W. L., 3,454,486.
Kitchener, Ronald, 3,475,611.
Moneypenny, Harold Kenneth; and Kitchener, Ronald, 3,421,364.
Wycherley, John Ralph; Proudman, Michael C.; and Clare, Alan C., 3,469,182.
G.K.N. Machinery Limited: *See—*.
Hartle, Brian, 3,447,694.
Woodcock, Donald Bernard; and Williams, Edward, 3,470,722.
G.K.N. Screws & Fasteners Limited: *See—*
Allsop, Robert T., 3,479,714.
Jordan, Arthur Edmund; and Williams, Reginald Hugh, 3,459,249.
Glabisch, Dietrich, to Gulf Oil Corporation, mesne. Stabile, aqueous emulsions of ethylene copolymers. 3,437,626, 4-8-69, Cl. 260-29.6
Glacier Metal Company Limited, The: *See—*
Beazley, Rodney Thomas, 3,432,091.
Beazley, Rodney Thomas; and Armstrong, Robert Hunter Thynne, 3,452,415.
Bielec, Mateusz Kazimierz, 3,454,312.
Herbert, Colin Wray, 3,448,715.
Herbert, Colin Wray, 3,467,050.
Michael, Anthony D.; and Pratt, George C., 3,432,293.
Glacier Ware, Inc.: *See—*
Paquin, Roger Lee, 3,436,932.
Stoner, Arthur M.; Schneider, Richard C.; and Paquin, Roger L., 3,434,302.
Gladden, David J.; and Marsh, William J., to Coleman Company, Inc., The. Variable heat output catalytic heater. 3,457,021, 7-22-69, Cl. 431-315.
Gladden, David J.; and Roy, Michael G., to Coleman Company, Inc., The. Method of and apparatus for raising a tent. 3,457,930, 7-29-69, Cl. 135-1.
Gladding Corporation: *See—*
Overhulser, William T., 3,475,049.
Gladieux, Norman K.: *See—*
Mc Cown, William E.; Gladieux, Norman K.; and Dunipace, Donald W.,3,476,539.
Gladney, Kurt Paul; and Deuzeman, Hendrik Herman Jan, to Fiberglas Canada Limited. De-ionizing treatment for phenolic resins using a soluble ammonium salt. 3,432,453, 3-11-69, Cl. 260-29.3
Gladrow, Elroy Merle; and Kimberlin, Charles Newton, Jr., to Esso Research and Engineering Company. Cracking catalyst compositions. 3,449,265, 6-10-69, Cl. 252-455.
Gladrow, Elroy Merle: *See—*
Voorhies, Alexis, Jr.; Kimberlin, Charles Newton, Jr.; and Gladrow, Elroy Merle,3,480,539.
Gladstone, Dennis John: *See—*
Stocks, Harry Ronald; and Gladstone, Dennis John,3,444,947.
Gladwell, Robert T., Jr., to Corning Glass Works. Circular slurry saw. 3,486,496, 12-30-69, Cl. 125-13.
Gladwin, Floyd R. Trash compressor. 3,438,321, 4-15-69, Cl. 100-221.
Gladwin, Floyd R. Method and apparatus for milling large radius curves. 3,464,314, 9-2-69, Cl. 90-21.
Gladwin Industries Inc.: *See—*
Quigley, Warren W., 3,471,656.
Gladwyn, Burchell J., 1/2 to Lane, Robert G. Fluid-operated sensing system. 3,482,433, 12-9-69, Cl. 73-37.5
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, to Allen and Hanburys Limited. As-triazino (5,6-s) indoles. 3,452,013, 6-24-69, Cl. 260-249.9
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, to Allen and Hanburys Limited. As triazino[5,6,-b]indoles. 3,466,281, 9-9-69, Cl. 260-249.9
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, to Allen and Hanburys Limited. As triazino[5,6,-b]indoles. 3,466,282, 9-9-69, Cl. 260-249.9
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold, to Allen and Hanburys Limited. As-triazino[5,6-b]indoles. 3,467,657, 9-16-69, Cl. 260-249.5
Gladysz, Carl V.: *See—*
Cox, Arthur; Gladysz, Carl V.; and Linke, Arthur G.,3,428,023.
Glaenzer Spicer: *See—*
Orain, Michel, 3,457,750.
Glaenzer Spicer Societe Anonyme: *See—*
Orain, Michel, 3,466,067.
Glaesener, Ernest, to ARBED, Acieries Reunies de Burbach-Eich-Dudelange, S.A. Process for casting of metal from a refining furnace into a ladle. 3,476,549, 11-4-69, Cl. 75-46.
Glaeser, Melvin L.; and Wilson, Earl L., to Koppers Company, Inc. Dust dislodging system for electrostatic precipitators. 3,483,669, 12-16-69, Cl. 55-112.
Glamann, Paul Wilhelm. Vehicle transmissions. 3,430,517, 3-4-69, Cl. 74-674.
Glamkowski, Edward J.; and Sletzinger, Meyer, to Merck & Co., Inc. Process for preparing (halophenyl) alkyl ketone compounds. 3,435,075, 3-25-69, Cl. 260-590.
Glamorise Foundation, Inc.: *See—*
Lewis, Richard; and Pryor, Paul D., 3,436,999.
Glancy, Jerry L., to Appliance Manufacturing Company, Inc. Cam actuated switch structure. 3,457,802, 7-29-69, Cl. 74-568.
Glander, Fritz; and Pelz, Diethart, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Waterproof and corrosion resistant jacketed electric cable. 3,484,539, 12-16-69, Cl. 174-107.
Glandin, Constan, to Allmanna Svenska Elektriska Aktiebolaget. Fuel assembly for nuclear reactors with fuel rods positioned by springs carried by a grid. 3,431,171, 3-4-69, Cl. 176-78.
Glandin, Constan, to Allmanna Svenska Elektriska Aktiebolaget. Spacer for fuel assemblies in a nuclear reactor. 3,457,140, 7-22-69, Cl. 176-78.
Glandin, Constan; and Skar, Harald, to Allmanna Svenska Elektriska Aktiebolaget. Method of manufacturing fuel assemblies. 3,481,021, 12-2-69, Cl. 29-455.
Glanemann, Rudolf, to Vacu-Lift Maschinenbau-Gesellschaft mit beschrankter Haftung. Vacuum lifting device, preferably for flat objects. 3,431,010, 3-4-69, Cl. 294-64.
Glang, Reinhard; and Maissel, Leon I., to International Business Machines Corporation. Maximum thermometer for surface temperature measurements. 3,472,074, 10-14-69, Cl. 73-362.
Glantz, Erika: *See—*
Renwanz, Gerhard; Credner, Karl; and Glantz, Erika,3,437,728.
Glanzstoff AG: *See—*
Ensslin, Kurt; Heinen, Peter; and Rongen, Josef, 3,460,213.
Heinen, Peter, 3,423,000.
Herwig, Hans Ulrich, 3,477,221.
Schippers, Heinz; and Ostertag, Karl, 3,466,357.
Sommer, Erwin; Manegold, Jost-Henrich; and Schulze, Helmut, 3,483,167.
Werner, Helmut; and Stapp, Hans, 3,478,143.
Glanzstoff Koln GmbH: *See—*
Fassbender, Herbert, 3,454,986.
Glaros, Emanuel Michael. Airless spray apparatus and methods. 3,469,788, 9-30-69, Cl. 239-307.
Glaros, Emanuel Michael. Joint with planar connector member. 3,469,873, 9-30-69, Cl. 287-189.36
Glaser, Dieter, to Munchener, Peggy Kinderwagenfabrik GmbH & Co., KG. Bed for baby carriage. 3,466,678, 9-16-69, Cl. 5-93.
Glaser, Dieter; and Beger, Udo, to Munchener, Peggy Kinderwagenfabrik GmbH & Co., KG. Bed for baby carriage. 3,466,677, 9-16-69, Cl. 5-93.
Glaser, Donald A., to Berkeley Scientific Laboratories, Inc. Method and apparatus for dispensing measured quantities of liquids. 3,476,291, 11-4-69, Cl. 222-76.
Glaser, Heinrich: *See—*
Kocher, Ernst-Ulrich; von der Emden, Wolfgang; Glaser, Heinrich; and Holtschmidt, Hans,3,483,165.
Glaser, Hermann: *See—*
Sennewald, Kurt; Vogt, Wilhelm; and Glaser, Hermann,3,441,601.
Vogt, Wilhelm; and Glaser, Hermann,3,476,799.
Glaser, Josef: *See—*
Strohschein, Manfred; Glaser, Josef; and Kurth, Hans,3,439,736.
Glaser, Marvin B.: *See—*
Stark, Thomas M.; and Glaser, Marvin B.,3,480,393.
Glaser, Nathan T.: *See—*
Watson, Chelsea, 3,446,438.
Glaser, Paul W.; and Boynton, Ira Dana, to Midland-Ross Corporation, mesne. Means for feeding compacts onto a conveying surface. 3,425,571, 2-4-69, Cl. 214-35.
Glaser, Peter E.; Johnston, Reed H.; and Jolkovski, Robert M., to Little, Arthur D., Inc. Protective garment. 3,425,060, 2-4-69, Cl. 2-2.1
Glaser, Raymond Arthur: *See—*
Kent, Robert L.; Badessa, Rosario S.; Barus, Carl; Dunn, Joseph M.; Glaser, Raymond Arthur; and Johnson, Leonard B.,3,477,666.
Glaser, William Jack: *See—*
Schlobohm, Roland T.; and Glaser, William Jack,3,454,496.

Glasford, Edmund J., to General Motors Corporation. Method and apparatus for molding articles from thermoplastic sheet materials. 3,476,840, 11-4-69, Cl. 264-25.
Glasgow, Clarence O. Throttling valve. 3,428,086, 2-18-69, Cl. 137-625.3
Glasgow, Clarence O.; and Bucklin, Charles A., to Custom Engineering & Manufacturing Corporation. Plug valve. 3,443,789, 5-13-69, Cl. 251-214.
Glasgow, David Gerald: *See*—
Salyer, Ival O.; and Glasgow, David Gerald,3,442,745.
Salyer, Ival O.; and Glasgow, David Gerald,3,481,814.
Salyer, Ival O.; and Glasgow, David Gerald,3,481,823.
Wilson, Harry S.; Glasgow, David Gerald; and Salyer, Ival O.,3,481,822.
Glasgow, James C., to Timber Imports, Inc. Timber truss joint and joint connector. 3,426,495, 2-11-69, Cl. 52-641.
Glasgow, Luther Ellis. Crumb crust shaper. 3,451,359, 6-24-69, Cl. 107-47.
Glasgow, Paul J., to Robbins and Bendror Associates, Inc. Bookbinding machine for folding book end leaves. 3,478,378, 11-18-69, Cl. 11-1.
Glasky, Alvin J., to International Chemical and Nuclear Corporation. Substituted ammonium basic addition salts of ribonucleic acid. 3,438,968, 4-15-69, Cl. 260-211.5
Glasky, Alvin J., to International Chemical and Nuclear Corporation. Enhancement of memory processes in mammals with basic addition salts of ribonucleic acid. 3,484,521, 12-16-69, Cl. 424-200.
Glass, Abraham; and Sweeton, Gerard F., to Mathews, Porter, Scientific Company. Primate cage. 3,467,064, 9-16-69, Cl. 119-17.
Glass, Adolph C. Collapsible steering assembly. 3,483,768, 12-16-69, Cl. 74-492.
Glass, David E., to Shelbourne Industries, Incorporated. Ski bracket or the like. 3,421,725, 1-14-69, Cl. 248-304.
Glass, Emmett F.: *See*—
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P.,3,444,676.
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P.,3,463,018.
Glass Fibers Products, Inc.: *See*—
Lewis, Albert; Robbins, David L.; and Kelley, Lawrence W., 3,484,259.
Glass, Henry Peter. Mobile camper unit. 3,458,231, 7-29-69, Cl. 296-23.
Glass, Henry P., to Welded Products Company. Fireplace having adjustable food receptacle and ash receptacle. 3,455,291, 7-15-69, Cl. 126-137.
Glass, Jerome, to Waltham Watch Company. Watch crystal and casing assembly. 3,473,319, 10-21-69, Cl. 58-91.
Glass, John Arnold, to Monsanto Company. Solvent purification by distillation with a hydrocarbon oil. 3,436,318, 4-1-69, Cl. 203-52.
Glass, John Arnold: *See*—
Dehn, John S.; and Glass, John Arnold,3,433,841.
Glass, John P.: *See*—
Simson, Anton K., 3,467,124.
Glass, John P. Foamed plastic container with hinged closure. 3,442,415, 5-6-69, Cl. 220-32.
Glass, John P. Inflatable massaging mattress. 3,467,081, 9-16-69, Cl. 128-33.
Glass, John R.; and Liederman, David, to Mobil Oil Corporation. Method for determining components in hydrocarbon streams. 3,432,403, 3-11-69, Cl. 204-1.
Glass Laboratories Company: *See*—
Shanok, Jesse P.; and Shanok, Victor, 3,470,015.
Shanok, Jesse P.; and Shanok, Victor, 3,480,462.
Shanok, Victor; and Shanok, Jesse P., 3,421,350.
Shanok, Victor; and Shanok, Jesse P., 3,455,546.
Shanok, Victor; and Shanok, Jesse P., 3,458,386.
Glass, Marvin, & Associates: *See*—
Ayala, Carl, 3,426,476.
Barlow, Gordon A.; Meyer, Burton C.; and Glass, Marvin I., 3,460,830.
Breslow, Jeffrey D.; and Glass, Marvin I., 3,474,771.
Breslow, Jeffrey D.; and Glass, Marvin I., 3,481,606.
Disko, Harry; Long, Thomas L.; and Glass, Marvin I., 3,484,798.
Disko, Harry; Glass, Marvin I.; and Licitis, Gunars, 3,486,756.
Giraud, Denise C.; Barlow, Gordon A.; and Glass, Marvin I., 3,462,153.
Giraud, Denise C.; Meyer, Burton C.; and Glass, Marvin I., 3,462,154.
Giraud, Denise C.; Janiszewski, Anthony T.; and Glass, Marvin I., 3,481,605.
Glass, Marvin I.; and Kripak, Leonid, 3,419,994.
Glass, Marvin I.; and Licitis, Gunars, 3,432,230.
Glass, Marvin I.; Giraud, Denise C.; and Licitis, Gunars, 3,437,338.
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid, 3,442,512.
Glass, Marvin I.; Disko, Harry; and Jernstrom, Hans E., 3,460,831.
Glass, Marvin I.; Licitis, Gunars; and Aleksa, Peter, 3,461,604.
Glass, Marvin I.; and Barlow, Gordon A., 3,462,857.
Glass, Marvin I.; and Disko, Harry, 3,471,147.
Glass, Marvin I.; and Schoenfield, Palmer J., 3,471,965.
Glass, Marvin I.; and Meyer, Burton C., 3,472,260.
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid, 3,479,035.
Glass, Marvin I.; and Licitis, Gunars, 3,484,160.
Janiszewski, Anthony T.; and Ancevicius, Dalia E., 3,471,148.
Jernstrom, Hans, 3,452,989.
Jernstrom, Hans; and Glass, Marvin I., 3,480,275.
Kripak, Leonid; and Glass, Marvin I., 3,473,260.
Meyer, Burton C.; and Glass, Marvin I., 3,452,472.
Meyer, Burton C.; and Glass, Marvin I., 3,479,764.
Stan, Henry; Barlow, Gordon A.; and Meyer, Burton C., 3,464,694.
Stan, Henry; and Glass, Marvin I., 3,464,702.
Winston, Emanuel A., 3,484,105.
Glass, Marvin I.: *See*—
Barlow, Gordon A.; Meyer, Burton C.; and Glass, Marvin I.,3,460,830.
Breslow, Jeffrey D.; and Glass, Marvin I.,3,474,771.
Breslow, Jeffrey D.; and Glass, Marvin I.,3,481,606.
Disko, Harry; Glass, Marvin I.; and Licitis, Gunars,3,486,756.
Disko, Harry; Long, Thomas L.; and Glass, Marvin I.,3,484,798.
Giraud, Denise C.; Barlow, Gordon A.; and Glass, Marvin I.,3,462,153.
Giraud, Denise C.; Janiszewski, Anthony T.; and Glass, Marvin I.,3,481,605.
Giraud, Denise C.; Meyer, Burton C.; and Glass, Marvin I.,3,462,154.
Glass, Marvin I.; and Barlow, Gordon A., to Glass, Marvin, & Associates. Toy. 3,462,857, 8-26-69, Cl. 35-77.
Glass, Marvin I.; and Disko, Harry, to Glass, Marvin, & Associates. Structural balancing game. 3,471,147, 10-7-69, Cl. 273-1.
Glass, Marvin I.; Disko, Harry; and Jernstrom, Hans E., to Glass, Marvin, & Associates. Assembling and balancing skill game. 3,460,831, 8-12-69, Cl. 273-1.
Glass, Marvin I.; Giraud, Denise C.; and Licitis, Gunars, to Glass, Marvin, & Associates. Chance controlled game piece selecting device. 3,437,338, 4-8-69, Cl. 273-138.
Glass, Marvin I.; and Kripak, Leonid, to Glass, Marvin, & Associates. Sneezing doll. 3,419,994, 1-7-69, Cl. 46-118.
Glass, Marvin I.; and Licitis, Gunars, to Glass, Marvin, & Associates. Audio-visual unit. 3,432,230, 3-11-69, Cl. 88-28.
Glass, Marvin I.; and Licitis, Gunars, to Glass, Marvin, & Associates. Audio-visual device. 3,484,160, 12-16-69, Cl. 353-7.
Glass, Marvin I.; Licitis, Gunars; and Aleksa, Peter, to Glass, Marvin, & Associates. Sound reproducing mechanism. 3,461,604, 8-19-69, Cl. 46-232.
Glass, Marvin I.; and Meyer, Burton C. Memory game apparatus. 3,471,149, 10-7-69, Cl. 273-1.
Glass, Marvin I.; and Meyer, Burton C., to Glass, Marvin, & Associates. Game. 3,472,260, 10-14-69, Cl. 273-161.
Glass, Marvin I.; and Schoenfield, Palmer J., to Glass, Marvin, & Associates. Jack-in-the-box with phonograph. 3,471,965, 10-14-69, Cl. 46-118.
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid, to Glass, Marvin, & Associates. Rotating figure with oscillating head portion. 3,442,512, 5-6-69, Cl. 273-141.
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid, to Glass, Marvin, & Associates. Player actuated chance game device. 3,479,035, 11-18-69, Cl. 273-138.
Jernstrom, Hans; and Glass, Marvin I.,3,480,275.
Kripak, Leonid; and Glass, Marvin I.,3,473,260.
Meyer, Burton C.; and Glass, Marvin I.,3,452,472.
Meyer, Burton C.; and Glass, Marvin I.,3,479,764.
Stan, Henry; and Glass, Marvin I.,3,464,702.
Glass, Ronald; and Fuechsel, Charles F., III. Automatic player for electronic musical instrument. 3,420,940, 1-7-69, Cl. 84-1.03
Glass, William H.; and Bridigum, Robert J., to Westinghouse Air Brake Company. Railway car draft gear with automatic cushioning control. 3,429,454, 2-25-69, Cl. 213-8.
Glass, William H.; and Bridigum, Robert J., to Westinghouse Air Brake Company. Air dryer and purge control unit. 3,472,000, 10-14-69, Cl. 55-163.
Glass, William H.; and Bridigum, Robert J., to Westinghouse Air Brake Company. Moisture removal apparatus for compressed air supply system. 3,486,303, 12-30-69, Cl. 55-162.
Glass, William H.: *See*—
Wilson, Mortimer D.; and Glass, William H.,3,448,229.
Glass, Winfried; and Benning, Anton, to Bergwerksverband G.m.b.H. Method of carrying out reations using liquid heat transfer agents. 3,475,115, 10-28-69, Cl. 23-1.
Glass-Tite Industries, Inc.: *See*—
Lybarger, Robert A., 3,461,532.
Glassbrook, Clarence I., to Ethyl Corporation. Detection of water in halogenated hydrocarbon streams. 3,474,006, 10-21-69, Cl. 204-1.
Glasschroeder, Hans, to Bio-Caf Instrument Company. Flanging tool. 3,482,282, 12-9-69, Cl. 18-19.
Glasscock, Ira, Jr.; and Bundrant, Lewis J. Eccentric adapter for a stuffing box. 3,442,538, 5-6-69, Cl. 285-178.

Glasser, Albert D.: *See—*
Archer, David H.; Glasser, Albert D.; Sverdrup, Edward F.; and Taylor, Herbert L.,3,433,680.
Glasser, Leon. Musical instrument bow. 3,456,544, 7-22-69, Cl. 84-282.
Glassey, Eugene A. Instrument for gauging liquid depth. 3,475,959, 11-4-69, Cl. 73-296.
Glassey, Stephen F.: *See—*
Bailey, John M.; Glassey, Stephen F.; and Staniak, Waldemar A.,3,451,405.
Glassman, Aaron, to Pennsylvania Sewing Research Corporation. Modular electrical switch and fuse box having means for connecting to like boxes. 3,479,567, 11-18-69, Cl. 317-114.
Glassman, Jacob A. Gastroscope. 3,481,325, 12-2-69, Cl. 128-8.
Glassman, Joel. Key system. 3,457,746, 7-29-69, Cl. 70-456.
Glassman, Joel; and Turner, Newton C., to Genesco, Inc. Manufacture of footwear. 3,481,054, 12-2-69, Cl. 36-55.
Glassmeyer, John J., to Pullman Incorporated. Container frame structure. 3,456,829, 7-22-69, Cl. 220-1.5
Glasson, Jean Emile, to Botalam. Device for grouping and bundling rod-like members. 3,427,958, 2-18-69, Cl. 100-7.
Glasson, Jerry M., to Teletype Corporation. Block synchronization circuit for an error detection and correction system. 3,456,239, 7-15-69, Cl. 340-146.1
Glasson, Jerry M., to Teletype Corporation. Synchronizing circuit for a receiving distributor. 3,472,956, 10-14-69, Cl. 178-69.5
Glasspool, William T., to Raytheon Company. Active filter. 3,431,434, 3-4-69, Cl. 307-233.
Glastic Corporation, The: *See—*
White,Roger B., 3,437,858.
Glasz, Eugen G.: *See—*
Mohring, Gustav; Weber, Arno; Glasz, Eugen G.; and Hagele, Gerhard,3,482,750.
Glathe, Manfred: *See—*
Berg, Gerhard; Blumel, Harald; and Glathe, Manfred,3,476,642.
Glauber, Myron: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Glaudot, Jean-Paul, to International Standard Electric Corporation. Electrical connector assembly. 3,475,569, 10-28-69, Cl. 200-50.
Glauser, James E.; and Wright, William S., Jr., to Pacific Scientific Company. Safety harness device. 3,450,368, 6-17-69, Cl. 242-107.4
Glavan, Ivan. Pantograph. 3,475,819, 11-4-69, Cl. 33-25.
Glaverbel S.A.: *See—*
Aerts, Josef, 3,438,518.
Algrain, Andre; and Fabry, Gerard, 3,460,303.
Brichard, Edgard; and Raes, Andre, 3,470,776.
Discry, Henri, 3,459,525.
Doquire, Gilbert; and Tasset, Michel, 3,434,865.
Eloy, Pierre, 3,438,761.
Henry, Georges; Brichard, Edgard; Marchand, Jean; and Bauduin, Albert, 3,477,838.
Jacobs, Alfred, 3,459,411.
Jaupain, Maurice, 3,468,681.
Javaux, Gustave, 3,442,635.
Miche, Andre, 3,451,831.
Plumat, Emile, 3,425,818.
Plumat, Emile; and Jaupain, Maurice, 3,425,851.
Plumat, Emile, 3,429,684.
Glavis, Frank J., to Rohm & Haas Company. Spray-reacted particulate carboxylic polymer- inorganic base compositions. 3,453,245, 7-1-69, Cl. 260-78.5
Glavis, Frank J.; Clemens, David H.; and McDonnell, Roger P., to Rohm & Haas Company. Clarification of raw sewage using hydrolyzed copolymers of polymerizable acrylic and vinyl compounds. 3,442,799, 5-6-69, Cl. 210-54.
Glavitsch, Johann: *See—*
Rauhut, Paul; Glavitsch, Johann; and Cuny, Robert,3,471,708.
Glaxo Laboratories Limited: *See—*
Arnold, Benjamin Harry; and Haddow, Norman, 3,436,310.
Clegg, John Brian; and Elliott, Leonard Godfrey, 3,445,563.
Eardley, Stephen; Gregory, Gordon Ian; Lazenby, John Kevin; and Long, Alan Gibson, 3,479,350.
Gale, Ann; and Phillipps, Gordon Hanley, 3,450,697.
Phillipps, Gordon Hanley, 3,445,487.
Ritchie, Alexander Crawford; Cocker, John Derek; and Webb, Godfrey Basil, 3,481,934.
Smith, Gerald Arthur; and Phillipps, Gordon Hanley, 3,476,780.
Wall, Wilfred Frank; Fatherley, Michael; and Boothroyd, Brian, 3,422,103.
Weir, Niall Galbraith, 3,440,252.
Glaza, Gordon K.: *See—*
Braeuninger, Karl F.; and Glaza, Gordon K.,3,460,304.
Braeuninger, Karl F.; and Glaza, Gordon K.,3,477,350.
Glaze, Ardelle, to Fort Wayne Metals, Inc. Permeable airfoil skin. 3,428,278, 2-18-69, Cl. 245-8.
Glazebrook, Ellis; and Chisholm, Kenneth Duncan Fraser, to English Electric Computers Limited. Electric pulse delay circuit. 3,467,838, 9-16-69, Cl. 307-268.
Glazier, Walter H., to Esso Production Research Company. Common depth point seismic prospecting. 3,431,999, 3-11-69, Cl. 181-0.5
Glazkov, Anatoly Vasilievich: *See—*
Gromov, Anatoly Pavlovich; Lukasheva, Evgenia Nikolaevna; Glazkov, Anatoly Vasilievich; Livshits, Abram Lazarevich; Pozhalkin, Vladimir Vasilievich; Polotsky, Vadim Evgenievich; and Scherbak, Mikhail Venediktovich,3,472,993.
Gleason, Albert W.: *See—*
Bucky, Peter A.; and Gleason, Albert W.,3,448,266.
Gleason, Anthony H.: *See—*
Tunkel, Norman; Hollyday, William C., Jr.; Bartlett, Jeffrey H.; and Gleason, Anthony H.,3,449,251.
Gleason, Frank J., Jr.; and Comstock, Russell E., to Copeland Refrigeration Corporation. Compressor pulsation dampener. 3,458,121, 7-29-69, Cl. 230-232.
Gleason, Lawrence David, to Motorola Inc. Multi-frequency receiver with automatic monitoring of channels with one channel having priority. 3,482,166, 12-2-69, Cl. 325-341.
Gleason, Quin R.; and Thrasher, George E., Jr., to Master Pneumatic-Detroit, Inc. Industrial lubricating system. 3,421,600, 1-14-69, Cl. 184-7.
Gleason, Robert Joseph: *See—*
Goldstein, David; and Gleason, Robert Joseph,3,449,075.
Gleason, Willard P.: *See—*
Hagemeyer, Hugh J., Jr.; Gleason, Willard P.; and Robinson, Alfred G., III,3,466,264.
Gleason, William J.: *See—*
Staunton, John J. J.; Malter, Lewis; Gleason, William J.; Malter, Lewis; Gleason, William J.; and Bull, Rame W.,3,428,432.
Staunton, John J. J.; Malter, Lewis; Gleason, William J.; Malter, Lewis; Gleason, William J.; and Bull, Rame W.,3,428,432.
Gleason Works, The: *See—*
Bruinsma, Norman G., 3,456,955.
Ellwanger, Charles G.; Huscher, Howard I.; and Payment, Robert J., 3,468,435.
Nardone, Joseph P., 3,468,552.
Snook, Alvin W., 3,440,927.
Walters, Derek M., 3,420,537.
Gleaton, Hamlin J., to Eaton Yale & Towne, Inc. Methods for cleaning looms. 3,440,097, 4-22-69, Cl. 134-37.
Gleeson, Murray A. Key retainer. 3,485,070, 12-23-69, Cl. 70-456.
Gleichert, Arthur A., 50% to Bales, Robert J. Urine deflector. 3,486,172, 12-30-69, Cl. 4-1.
Gleichman, George E. Lift bed type truck with unloading means therefor. 3,482,721, 12-9-69, Cl. 214-508.
Gleim, Paul S.: *See—*
Bean, Kenneth E.; and Gleim, Paul S.,3,421,055.
Gleim, Paul S.; and Sherer, Jimmie B., to Texas Instruments, Incorporated. Vapor deposition apparatus including orbital substrate support. 3,456,616, 7-22-69, Cl. 118-49.5
Gleim, William K. T., to Universal Oil Products Company. Method of dyeing synthetic polymeric materials. 3,421,831, 1-14-69, Cl. 8-55.
Gleim, William K. T., to Universal Oil Products Company. Thioheteropoly acid anhydrides as crude oil hydrorefining catalysts. 3,432,442, 3-11-69, Cl. 252-435.
Gleim, William K. T., to Universal Oil Products Company. Catalytic conversion of asphaltene-containing hydrocarbon charge stocks. 3,474,029, 10-21-69, Cl. 208-251.
Gleim, William K. T., to Universal Oil Products Company. Hydrorefining of metal-containing black oils with a molten Lewis acid and a molybdenum halide. 3,483,117, 12-9-69, Cl. 208-252.
Gleim, William K. T.; and Gatsis, John G., to Universal Oil Products Company. Hydrorefining a hydrocarbonaceous charge stock with a molten Lewis acid and molybdenum sulfide. 3,483,118, 12-9-69, Cl. 208-252.
Gleim, William K. T.; and O'Hara, Mark J., to Universal Oil Products Company. Two-stage hydrorefining of asphaltene- containing oils. 3,429,801, 2-25-69, Cl. 208-58.
Gleim, William K. T.; Wackher, Richard C.; and Ramquist, Frederick C., to Universal Oil Products Company. Xylene separation process. 3,465,055, 9-2-69, Cl. 260-674.
Gleim, William K. T.: *See—*
Gatsis, John G.; and Gleim, William K. T.,3,449,452.
Gatsis, John G.; and Gleim, William K. T.,3,449,454.
O'Hara, Mark J.; and Gleim, William K. T.,3,420,771.
Gleisner, Henry H. Ski boot. 3,482,336, 12-9-69, Cl. 36-2.5
Glejf, Robert G.; and O'Brien, George A. Kinkead Industries Incorporated Retaining mechanism for slidable doors. 3,441,076, 4-29-69, Cl. 160-196.
Glemby, Kenneth: *See—*
Lane, Curtis; Glemby, Kenneth; and Greenstein, Leon,3,479,835.
Glen, Michael H.; and Niemann, Juergen, to Ideal Industries, Inc. Conduit closer and positioner. 3,420,275, 1-7-69, Cl. 138-96.
Glen, William; and West, Kenneth, to Imperial Chemical Industries Limited. High tenacity yarns made from polyethylene terephthalate, particularly for sailcloth. 3,448,573, 6-10-69, Cl. 57-140.
Glen-Mar Door Manufacturing Company: *See—*
Clifford, Robert S., 3,421,556.

Glenair, Inc.: *See—*
Schwartz, Lawrence, 3,465,092.
Glenat, Henri: *See—*
Salvi, Antoine; and Glenat, Henri,3,441,841.
Glenby, Kenneth: *See—*
Lane, Curtis; and Glenby, Kenneth,3,458,107.
Glendenning, Don M., to Locke Steel Chain Company, The. Indexer arrangement in an apparatus for making detachable link chain. 3,436,906, 4-8-69, Cl. 59-6.
Glendinning, William B.; and Marshall, Sidney, to United States of America, Army. Micro-electronic form masking system. 3,422,442, 1-14-69, Cl. 346-107.
Glenfield, George E.: *See—*
du Fosse, Peter; and Glenfield, George E.,3,441,793.
Glenfield, George E., to S-F-D Laboratories, Inc. Reverse magnetron having a tie ring stiffening structure for its cathode support fingers. 3,441,792, 4-29-69, Cl. 315-39.51
Hynes, Richard M.; and Glenfield, George E.,3,441,795.
Glenister, Paul R.: *See—*
Segel, Edward; and Glenister, Paul R.,3,443,957.
Glenn, Charles A. Handle for containers. 3,456,283, 7-22-69, Cl. 16-110.
Glenn, Charles A. Temperature sensitive devices. 3,459,487, 8-5-69, Cl. 431-95.
Glenn, David A., to Electroglas Incorporated. Automatically indexed probe assembly for testing semiconductor wafers and the like. 3,437,929, 4-8-69, Cl. 324-158.
Glenn, Eldridge Myles, to Upjohn Company, The. Process for darkening skin using a glyceraldehyde composition. 3,435,111, 3-25-69, Cl. 424-59.
Glenn Electric Heater Corporation: *See—*
Finn, John J., 3,444,356.
Glenn Electronic and Mechanical Specialities, Inc.: *See—*
Glenn, Richard C., 3,434,956.
Glenn, John D.; Robbins, Owen G.; Schwemer, Warren C.; and Silverman, Joseph R., to Jet Stream Products, Inc., mesne. Apparatus for cleaning soiled materials. 3,431,753, 3-11-69, Cl. 68-9.
Glenn, Lee E. Safety platform for swimming pools. 3,423,768, 1-28-69, Cl. 4-172.
Glenn, Lewis A.: *See—*
Friedman, Joseph; and Glenn, Lewis A.,3,439,503.
Glenn, Richard C., to Glenn Electronic and Mechanical Specialities, Inc. Apparatus for the electrolytic thinning of metallic specimens for transmission electron microscopy. 3,434,956, 3-25-69, Cl. 204-237.
Glenn, Robert; and Barouh, Victor. Nylon inking ribbon having sprocket holes. 3,467,235, 9-16-69, Cl. 197-172.
Glenn, William E., Jr., to General Electric Company. Configuration for back projection. 3,462,214, 8-19-69, Cl. 353-38.
Glenn, William E., Jr., to General Electric Company. Method and apparatus for composing and enlarging three dimensional pictures. 3,482,913, 12-9-69, Cl. 355-33.
Glensky, William E., to West Company, The. Container closure. 3,439,825, 4-22-69, Cl. 215-40.
Glenwood Range Company: *See—*
McArthur, George, Jr., 3,465,125.
Glenzer, John C., to Hanson Whitney Company, The. Tool holder. 3,436,086, 4-1-69, Cl. 279-30.
Gleockler, Frederick M. Air filtering and cooling apparatus. 3,440,804, 4-29-69, Cl. 55-269.
Glesmann, Herbert C., to Omsteel Industries, Inc. Vehicle-mounted implement. 3,432,949, 3-18-69, Cl. 37-44.
Glesmann, Herbert C., to Omsteel Industries, Inc.'V' plow with a floating-type mounting linkage. 3,483,642, 12-16-69, Cl. 37-44.
Glesner, William K.: *See—*
Nowak, Robert M.; and Glesner, William K.,3,431,597.
Glew, Derek Aubrey: *See—*
Wilson, John Francis; Goddard, John; and Glew, Derek Aubrey,3,459,645.
Gley, Paul R., to Rex Chainbelt Inc., mesne. Snap-in latch or fastener assembly. 3,454,250, 7-8-69, Cl. 248-223.
Glick, Ezra N., to Allied Precision Laboratories, Inc. Electronic temperature measuring device. 3,485,102, 12-23-69, Cl. 73-362.
Glick, Leslie, to Prices Tailors Limited. Adjustable patterns for tailoring. 3,447,242, 6-3-69, Cl. 33-14.
Glick, Merton; and Mancari, Joseph J. Drum mute. 3,453,924, 7-8-69, Cl. 84-411.
Glick, Robert L.; and Askins, Robert E., to Thiokol Chemical Corporation. Bistable solid propellant rocket motor. 3,452,544, 7-1-69, Cl. 60-254.
Glick, Roy Victor; and Wenger, Luke D. Oxygen therapy flow time measuring system. 3,455,314, 7-15-69, Cl. 137-2.
Glickman, Arnold. Method of making welt shoes. 3,462,783, 8-26-69, Cl. 12-142.
Glien, Hans, to Siemens Aktiengesellschaft. Velocity modulation tube, in particular traveling wave tube, with a magnetic system for the bundled conduction of the electron beam by means of a homogeneous magnetic field. 3,448,329, , Cl. 315-3.5
Glikin, Paul Edgar: *See—*
Adey, Anthony John; and Glikin, Paul Edgar,3,465,679.
Glikin, Paul Edgar; and Fenne, Ivor, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,439,624, 4-22-69, Cl. 103-2.
Glikin, Paul Edgar; and Hutcheon, Keith Finer, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,446,148, 5-27-69, Cl. 103-2.
Glindmeyer, Friedrich, to William Prym-Werke KG. Slide fastener stringer. 3,474,505, 10-28-69, Cl. 24-205.16
Glindmeyer, Friedrich; and Darandik, Fritz, to Willliam Prym-Werke K.G. Sliding clasp fasteners. 3,444,598, 5-20-69, Cl. 24-205.16
Glisenti, Attilia. Dispenser for chilled edible products. 3,456,839, 7-22-69, Cl. 222-70.
Glista, Edward M.: *See—*
Brahm, Charles B.; Corcoran, John M.; Glista, Edward M.; and Van Olinda, David L.,3,478,512.
Global Divers and Contractors, Inc.: *See—*
Ostarly, Adam R., 3,479,830.
Global Marine Inc.: *See—*
Conry, Lloyd H., 3,453,670.
Conry, Lloyd H.; Rininger, Paul R.; and Robertson, Farrell C., 3,481,584.
Crooke, Robert Curtis; and Koot, Nick, 3,426,855.
Koot, Nick; and Nold, Robert W., 3,433,531.
Koot, Nick, 3,477,527.
Reed, Charles R., 3,467,262.
Global Systems, Inc.: *See—*
Favors, Jack E., 3,458,009.
Hahn, Richard H., 3,468,472.
Globampoule A.G.: *See—*
Drewe, John, 3,468,309.
Globe Manufacturing Company: *See—*
Cahill, John W., 3,454,013.
Cahill, John W., 3,464,851.
Globe Refractories, Inc.: *See—*
Curry, William J., Jr., 3,464,598.
Moore, Robert F., 3,463,649.
Globe Tool and Engineering Company, The: *See—*
Biddison, John M., 3,482,545.
Moore, Harry W., 3,455,009.
Globe Union, Inc.: *See—*
Elliott, William E.; and Huff, James R., 3,445,290.
Lello, Giles S., 3,433,674.
Globe Valve Corporation: *See—*
Sanderson, John W., 3,460,565.
Sanderson, John W., 3,472,279.
Globe Woven Belting Co., Inc.: *See—*
Kohlhagen, Frederick A., 3,472,288.
Globe-Lak N.V.: *See—*
De Rozario, Richard Maria Leonard, 3,485,006.
Globe-Union Inc.: *See—*
Burant, Leonard Joseph; and Peterson, Bruce Even, 3,471,766.
Ganiere, Herbert Carl; and Sherwood, Edwin Theodore, 3,470,356.
Halsall, Vincent Michael; and Hennen, Roy Erving, 3,443,995.
Hennen, Roy Erving, 3,466,199.
Iles, Peter Albert, 3,471,924.
Jones, Kenneth R., 3,431,148.
Jones, Kenneth R.; and Thomas, John R., 3,449,820.
Jones, Kenneth R.; Burant, Leonard J.; and Wolter, Donald R., 3,451,855.
Kirchberger, Walter Carl; and Orlando, Daniel, 3,427,424.
Marx, Hilbert Stanley, 3,430,105.
Ross, Bernd, 3,462,311.
Sabatino, Anthony, 3,476,611.
Wizenick, Richard J., 3,454,774.
Wycislak, John, 3,453,154.
Globerman, Irving; and Kaplan, Robert S., to Ar-Kay Enterprises, Inc. Automatic fire extinguisher. 3,464,497, 9-2-69, Cl. 169-2.
Globus, Alfred R., to Guardian Chemical Corporation. Urinary acidification composition. 3,445,569, 5-20-69, Cl. 424-128.
Globus, Alfred R., to Guardian Chemical Corporation. Mono-magnesium polyamino ethylene-diamine tetraacetate glucono citrate complex. 3,452,049, 6-24-69, Cl. 260-343.5
Globus, Rafail Lvovich: *See—*
Krasovitsky, Boris Mordukhovich; Poduzhailo, Vladimir Fedorovich; Podgornaya, Liya Mikhailovna; and Globus, Rafail Lvovich,3,444,094.
Glock, Hans, to Siemens Aktiengesellschaft. Magnetic store. 3,421,155, 1-7-69, Cl. 340-174.
Glock, Hans, to Siemens Aktiengesellschaft. Magnetic store employing at least two inhibit conductors per storage plane. 3,441,918, 4-29-69, Cl. 340-174.
Glockler, Otto; and Reichardt, Wolfgang, to Bosch, Robert G.m.b.H. Fuel injection control system. 3,430,616, 3-4-69, Cl. 123-119.
Gloess, Paul Francois Marie, to Societe d'Electronique et d'Automatisme. System of communication between man and machine. 3,441,722, 4-29-69, Cl. 235-151.
Gloess, Paul Francois Marie, to Societe d'Electronique et d'Automatisme. Man-machine communication system. 3,443,075, 5-6-69, Cl. 235-151.
Gloninger, Irving L. W.; and Belmont, Lawrence P. W., Sr. Measuring apparatus. 3,439,424, 4-22-69, Cl. 33-8.

Gloor, Urs; and Bohnen, Klaus, to Hoffmann-La Roche, Inc. Process for control of algae growth using compositions containing diamines and/or derivatives thereof. 3,466,162, 9-9-69, Cl. 71-67.
Gloppen, Robert C., to Yeomans Brother Company. Adjustable weir. 3,423,077, 1-21-69, Cl. 261-91.
Glorioso, Paul A.; and Spisak, Steve, to TRW Inc., mesne. Control means for automatically loading studs in a stud welding tool. 3,487,190, 12-30-69, Cl. 219-98.
Glos, Franz: *See—*
Schucker, Josef; Glos, Franz; and Nemetz, Willi,3,445,373.
Gloskey, Carl R., to M & T Chemicals Inc.Novel process for preparing R_2Sn. 3,454,569, 7-8-69, Cl. 260-242.
Gloskey, Carl R., to M&T Chemicals Inc. Stabilization of polymers with organotin compounds. 3,485,794, 12-23-69, Cl. 260-45.75
Glossop, Donald L., Jr.: *See—*
Bracey, Robert A.; Glossop, Donald L., Jr.; Hayosh, Robert J.; and Palazzolo, Joseph A.,3,473,842.
Gloster, Arthur, to Texas Gulf Sulphur Company. Process for producing sodium sesquicarbonate and soda ash from trona. 3,455,647, 7-15-69, Cl. 23-63.
Gloucester Engineering Co., Inc.: *See—*
Schott, Charles M., Jr., 3,473,995.
Glovatsky, Andrew; and Shinal, Joseph B., to Sylvania Electric Products, Inc. Method of applying particulate matter to a surface. 3,483,010, 12-9-69, Cl. 117-18.
Glovatsky, Andrew; Shinal, Joseph B.; and Slobbe, Walter W., to Sylvania Electric Products, Inc. Method for the fabrication of image display screens. 3,440,081, 4-22-69, Cl. 117-34.
Glover, Donald J.; and Kamlet, Mortimer J., to United States of America, Navy. Conversion of trinitromethyl compounds. 3,437,683, 4-8-69, Cl. 260-478.
Glover, Edward B.: *See—*
McRae, Daniel D.; Glover, Edward B.; Williamson, Leon B.; and Frederick, Sinclair A.,3,426,327.
Glover, Wayne H.; Southworth, Robert K.; Rasmussen, David E.; Unterberg, William J.; and Louden, Max, to Buehler Corporation, The. Method for treating titanium. 3,439,188, 4-15-69, Cl. 204-37.
Glover, William Frank, to International Standard Electric Corporation. Electrical windings. 3,430,176, 2-25-69, Cl. 336-172.
Glover, William Frank, to International Standard Electric Corporation. Fractional turn electrical windings. 3,467,930, 9-16-69, Cl. 336-83.
Glowacki, John J., to United States of America, Army. Fuze. 3,486,452, 12-30-69, Cl. 102-70.2
Gluchowicz, Gerszon, to Ulvsunda Verkstader Aktiebolag. Wheel mount for internal grinding machines. 3,427,750, 2-18-69, Cl. 51-50.
Gluchowicz, Gerszon, to Ulvsunda Verkstader Aktiebolag. Device in internal cylindrical grinding machines. 3,481,081, 12-2-69, Cl. 51-50.
Gluck, Roswitha; Lutz, Edgár; Riess, Horst; and Weinmann, Klaus, to Aktiengesellschaft Brown, Boveri & Cie. Semi-conductor elements with disturbed crystalline surface structure in a junction area. 3,442,724, 5-6-69, Cl. 148-187.
Gluck, William. Shock absorbing means for piston and cylinder or the like. 3,465,650, 9-9-69, Cl. 92-85.
Gluckin, William, & Company, Inc.: *See—*
Grishman, Simon, 3,465,755.
Glucksman, Dov Zeev; and Bornstein, Richard W., to Torrington Manufacturing Company, The. Transverse flow blower unit having cavity with restricted opening adjacent cut-off section. 3,459,365, 8-5-69, Cl. 230-125.
Glucksman, Dov Zeev; and Fay, Thomas W., to Torin Corporation. Low noise ninety degree transverse flow blower with improved housing and vortex control member. 3,477,635, 11-11-69, Cl. 230-125.
Gluckstein, Martin E., to Ethyl Corporation. Jet engine deposit modification. 3,442,631, 5-6-69, Cl. 44-68.
Gluhareff, Eugene M.; and McIntyre, Robert G., to McDonnell Douglas Corporation. Power actuated gyro controlled ejection seat stabilizing system. 3,487,445, 12-30-69, Cl. 244-122.
Glung, Perry G.: *See—*
Blackmore, Joseph J.; and Glung, Perry G.,3,486,306.
Gluntz, Douglas M., to General Electric Company. Nuclear reactor system with jet pump flow means. 3,445,335, 5-20-69, Cl. 176-61.
Gluntz, Glenn Harlan, to AMP Incorporated. Mounting means for an electrical connector. 3,480,904, 11-25-69, Cl. 339-65.
Glunz, Ernst, to Kienzle Uhrenfabriken G.m.b.H. Plastic bearing bushing. 3,457,719, 7-29-69, Cl. 58-52.
Gluodenis, Thomas J.: *See—*
Egbert, Robert B.; and Gluodenis, Thomas J.,3,455,962.
Gluschkin, Mischa. Lamp shade. 3,456,106, 7-15-69, Cl. 240-108.
Glushakow, Herbert N. Hair styling devices. 3,444,864, 5-20-69, Cl. 132-38.
Gluskin, Richard S., to Sperry Rand Corporation. Fluid document transporter. 3,437,335, 4-8-69, Cl. 271-8.
Glyco-Metall-Werke, Daelen & Loos G.m.b.H.: *See—*
Roemer, Erich, 3,425,112.
Glymph, Eakin M.; and Dawson, Henry G., to Firestone Tire & Rubber Company, The. Replacement of solvent by water in preparation of elastomer latex. 3,445,414, 5-20-69, Cl. 260-23.5
Glynn, James J., to Diamond Antenna & Microwave Corporation. Dish reflector with detachable waveguide feed. 3,483,564, 12-9-69, Cl. 343-771.
Glynn, Theodore W.; and Storm, Jack S., Jr., to American Saint Gobain Corporation. Process for producing decorative glass. 3,477,836, 11-11-69, Cl. 65-121.
Glynwed Screws & Fastenings Limited: *See—*
McIntyre, Alan H.; and Beards, William A., 3,451,080.
Glyptis, Nicholas D. Color display system. 3,428,858, 2-18-69, Cl. 315-30.
Glyptis, Nicholas D. Power supply for thermoelectric apparatus. 3,430,060, 2-25-69, Cl. 307-66.
G. M. Pfaff AG: *See—*
Meier, Willi, 3,460,496.
Orth, Hans; Franz, Ludwig; and Divivier, Urban, 3,460,497.
Gnaedinger, Richard H., to United States of America, Interior. Pressure cooking process to produce fish cakes for animal use. 3,429,710, 2-25-69, Cl. 99-7.
Gneisz, Josef: *See—*
Marek, Bruno S. V.; and Gneisz, Josef,3,423,284.
Go, Ting Sin: *See—*
Segar, Thomas W.; and Go, Ting Sin,3,433,584.
Go-Tract Limited: *See—*
Siber, Erwin-Walter; and Keary, Marvin William, 3,447,814.
Goadby, Walter: *See—*
Widdowson, Albert H.; and Goadby, Walter,3,422,638.
Goard, Howard W.; and Shaul, Duane D., to Phillips Petroleum Company. Concentration of high gas content liquids. 3,448,587, 6-10-69, Cl. 62-58.
Gobel, Klaus. Roofing sheet-anchoring apparatus. 3,444,658, 5-20-69, Cl. 52-94.
Gobel, Wilhelm: *See—*
Reischl, Artur; Gobel, Wilhelm; and Schmidt, Karl-Ludwig,3,444,266.
Gobeli, David H.; and Hardy, Arthur H., Jr., to Honeywell Inc. Phase shifting control by phase comparison of signals. 3,436,647, 4-1-69, Cl. 323-101.
Gobhai, Cavas M.; Chopra, Amarjit; and Schoener, Harry. Buttonhole spreader. 3,425,372, 2-4-69, Cl. 112-114.
Gobl, Gerhard E.: *See—*
Taylor, John W., Jr.; Gobl, Gerhard E.; and Hiscox, Harold C.,3,432,777.
Goble, Harold G.: *See—*
Lichti, Robert D., 3,424,321.
Goble, Harry. Bending machines for bending metal bars or sections. 3,472,055, 10-14-69, Cl. 72-297.
Goble, Ralph O. Safety for firearms. 3,451,154, 6-24-69, Cl. 42-70.
Goble, Ralph W., to Calumet & Hecla, Inc. Electrostrictive effect in a transducer for drawing wire, rod or tube. 3,434,329, 3-25-69, Cl. 72-467.
Goble, Ralph W., to Imco Container Company, mesne. Inspection apparatus and method. 3,438,493, 4-15-69, Cl. 209-111.9
Goble, William C., to Raybestos-Manhattan, Inc. Treadle switch unit for vehicular traffic. 3,485,977, 12-23-69, Cl. 200-86.
Gobran, Ramsis: *See—*
Ofstead, Ronald F.; and Gobran, Ramsis,3,453,113.
Gobran, Ramsis; and Ofstead, Ronald F., to Minnesota Mining and Manufacturing Company. Process for preparing a photographic emulsion. 3,436,222, 4-1-69, Cl. 96-114.
Gobran, Riad H.: *See—*
Bulbenko, George F.; Gobran, Riad H.; and Blommers, Elizabeth A.,3,479,337.
Gobran, Riad H.; and Bernstein, Philip, to Thiokol Chemical Corporation. Curable acrylate interpolymers containing alkoxyethyl or alkylthioethyl acrylates. 3,450,681, 6-17-69, Cl. 260-80.72
Gobran, Riad H.; Santaniello, Anthony F.; and Larsen, Roy, to Thiokol Chemical Corporation. Molecular weight control in the polymerization of vicinal episulfides. 3,448,091, 6-3-69, Cl. 260-79.
Gobran, Riad H.; Santaniello, Anthony F.; and Mazzeo, Michael P., to Thiokol Chemical Corporation. Air-curable sealant and caulking composition. 3,423,376, 1-21-69, Cl. 260-80.3
Osborn, Stephen W.; and Gobran, Riad H.,3,464,845.
Gobron, Georges: *See—*
Biarnais, Paul; Alheritiere, Louis; Gobron, Georges; Mercier, Jules; Meunier, Gaston; and Lemaistre, Rene,3,483,151.
Gobstein, Saul, to Ferro Corporation. Heat stabilization of polyvinyl fluoride. 3,442,853, 5-6-69, Cl. 260-45.95
Gochanour, Caroll Q.: *See—*
Knapp, William H.; Gochanour, Caroll Q.; and De Pauw, Richard A.,3,464,419.
Gochman, Carl: *See—*
Bell, Stanley C.; and Gochman, Carl,3,423,459.
Gockel, Gustav, Maschinenfabrik G.m.b.H.: *See—*
Eckstein, Philipp, 3,479,774.
Godat, Jean J. L.: *See—*
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr.,3,473,212.

Godbee, Herschel W.: *See—*
Fitzgerald, Curtis L.; Godbee, Herschel W.; and McCorkle, Kenneth H., Jr.,3,463,738.
Godbersen, Harold W. Concrete finishing machine. 3,450,011, 6-17-69, Cl. 94-45.
Godby, Ensley A.; Baker, Ralph C.; and Strome, Murray W., to Canadian Patents and Development Limited. Apparatus for orienting a total field magnetometer. 3,432,751, 3-11-69, Cl. 324-43.
Goddard, Arthur, to Girling Limited. Sliding caliper disc brake structure. 3,470,984, 10-7-69, Cl. 188-73.
Goddard, Brian Walter: *See—*
Downing, Eric William; and Goddard, Brian Walter,3,460,521.
Goddard, Brian Walter; and Wileman, David Gerald, to Lucas Joseph, (Industries) Limited. Control apparatus for liquid fuel metering devices. 3,452,729, 7-1-69, Cl. 123-140.
Goddard Industries, Inc.: *See—*
Nelson, Donald R., 3,430,990.
Nelson, Donald R., 3,471,122.
Goddard, J., & Sons Limited: *See—*
Thornton, James Coward, 3,485,502.
Goddard, John: *See—*
Wilson, John Francis; Goddard, John; and Glew, Derek Aubrey,3,459,645.
Goddard, Norman L. and: *See—*
Klomp, Alfred W., 3,423,879.
Goddard, Stanley; and Smith, Norman A., to Corning Glass Works. Cylinder spinning with smoothing feed means. 3,471,280, 10-7-69, Cl. 65-71.
Goddard, William H.; and Hopf, Henry C., to Eastman Kodak Company. Knob assembly. 3,484,893, 12-23-69, Cl. 16-114.
Goddard, William H.: *See—*
Johnson, Robert B.; and Goddard, William H.,3,451,590.
Godden, Kenneth B. Golf practice device. 3,429,577, 2-25-69, Cl. 273-186.
Godding, Ronald G., to British Cast Iron Research Association. Curing foundry cores and moulds. 3,472,307, 10-14-69, Cl. 164-37.
Godechot, Jean Pierre: *See—*
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre,3,451,953.
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre,3,451,954.
Godefroi, Erik Fred; and Van Der Eijcken, Cyriel Alfons Maria, to Janssen Pharmaceutica, N.V. Composition and method for combatting fungus with imidazole carboxylates. 3,485,917, 12-23-69, Cl. 424-273.
Godel, Albert, to Compagnie Industrielle de Procedes & d'Applications S.A. (CIPA). Process and apparatus for combustion and heat recovery in fluidized beds. 3,431,892, 3-11-69, Cl. 122-4.
Godel, Edouard Paul Victor Raoul. Compensated action non-return exhalation valve, more particularly for respiratory mask. 3,444,857, 5-20-69, Cl. 128-142.
Godes, David, to Diamond Alkali Company. Siding assembly. 3,473,274, 10-21-69, Cl. 52-127.
Godet, Jean, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for filling storage containers with cigars and like rod-shaped objects. 3,445,986, 5-27-69, Cl. 53-148.
Godet, Jean, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for filling storage containers with rod- shaped products and especially cigars. 3,447,283, 6-3-69, Cl. 53-148.
Godfrey, Alan, to Plessey Company Limited, The. Frequency dividers. 3,431,499, 3-4-69, Cl. 328-48.
Godfrey, Arthur W.: *See—*
Obcrender, Frederick G.; Godfrey, Arthur W.; and Wiley, Morris A.,3,476,685.
Godfrey, Charles John, to Hilger & Watts Limited. Scale reading means. 3,453,052, 7-1-69, Cl. 356-170.
Godfrey, Gordon Reginald, to Distillers Company (Carbon Dioxide) Limited, The. Dispensing device for gases under pressure. 3,472,292, 10-14-69, Cl. 141-197.
Godfrey, John J.; Sykes, James A.; Harper, James L.; and Morgan, Charles R., to Grace, W. R., & Co. Process for preparing sodium nitrilotriacetate. 3,463,811, 8-26-69, Cl. 260-534.
Godfrey, John J.: *See—*
Morgan, Charles R.; and Godfrey, John J.,3,463,805.
Godfrey, Lawrence M., Jr.; and McBeth, James R., to Texas Instruments, Incorporated. Binary gain recovery. 3,458,859, 7-29-69, Cl. 340-15.5
Godfrey, Leonard E. A., to FMC Corporation. Flame-retardant regenerated cellulose. 3,455,713, 7-15-69, Cl. 106-165.
Godfrey, Leonard E. A.; and Garman, John A., to FMC Corporation. Modified sulfur. 3,427,292, 2-11-69, Cl. 260-79.
Godfrey, Raymond I. Self-cleaning vehicle mirror. 3,455,624, 7-15-69, Cl. 350-63.
Godfrey, Wesley L., to United States of America, Atomic Energy Commission. Multistage separation of components of a solution. 3,424,549, 1-28-69, Cl. 23-22.
Godin, Edmund J.: *See—*
Latta, Edward; and Godin, Edmund J.,3,471,729.
Latta, Edward; Godin, Edmund J.; and Phillips, Jerome,3,444,409.
Godin, James B., to Phillips Petroleum Company. Extraction of isobutylene by polymerization. 3,452,113, 6-24-69, Cl. 260-677.
Godin, Raphael W.: *See—*
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J.,3,457,831.
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J.,3,457,832.
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J.,3,469,498.
Forbes, John P.; and Godin, Raphael W.,3,455,129.
Godley, Philip, II, to Improved Machinery Inc. Valve. 3,438,393, 4-15-69, Cl. 137-533.17
Godouet, Francois: *See—*
Alliot, Louis; Auclair, Michel; and Godouet, Francois,3,480,419.
Godron, Yves Georges, to Compagnie de Saint-Gobain. Vitreous compositions of matter. 3,481,749, 12-2-69, Cl. 106-47.
Godsey, Charles E., to Continental Oil Company. Method for determining the concentration of cupric ions in the presence of cuprous ions by nuclear magnetic resonance. 3,420,634, 1-7-69, Cl. 23-230.
Godsey, William J.; and Pollock, Michael J., deceased0 (by Pollock, Tillie W.; legal representative), to United States of America, Navy. Solid state detonator firing circuit. 3,439,616, 4-22-69, Cl. 102-70.2
Godshalk, James B., to Fox Products Company. Auxiliary battery connecting apparatus. 3,456,181, 7-15-69, Cl. 320-25.
Godson, David Henry: *See—*
Brookes, Robert Frederick; Godson, David Henry; and Leafe, Edward Levi,3,439,018.
Godsted, Kent B.: *See—*
Muller, Robert E.; Godsted, Kent B.; Patarini, Leon M.; and McDonald, James F.,3,443,726.
Godt, Henry C., Jr., to Monsanto Company. Novel polyalkyl alcohols. 3,429,936, 2-25-69, Cl. 260-632.
Godtfredsen, Wagn Ole, to Lovens Kemiske Fabrik Produktionsaktieselskab. Substituted adamantyl penicillins. 3,474,089, 10-21-69, Cl. 260-239.1
Godtfredsen, Wagn Ole; and Von Daehne, Welf, to Lovens Kemiske Fabrik Produktionsaktieselskab. Compounds with anti-hormonal activity which are of the 4α, 8α,14β-trimethyl-18-nor-androstane series, including esters. 3,463,798, 8-26-69, Cl. 260-397.45
Godwin, Ernest: *See—*
Beyers, Stephen J.; Draeger, Alfred A.; and Godwin, Ernest,3,486,744.
Godwin, James B., Jr. Static cable system for fuel tanks. 3,453,493, 7-1-69, Cl. 317-2.
Godwin, Joseph R.: *See—*
Watson, George A.; Williams, James A.; and Godwin, Joseph R.,3,466,861.
Goeb, Andre; and Vuillemenot, Jacques, to Ugine Kuhlmann. Method of manufacturing 1,1,1-trichloroethane. 3,474,018, 10-21-69, Cl. 204-163.
Goebel, George A.; and Canterino, Peter J., to Rexall Drug and Chemical Company. Deactivating residual polymerization catalyst in polyproplyene. 3,435,019, 3-25-69, Cl. 260-93.7
Goebel, Gregory; and Ketterer, Stanley J., to Singer Company, The. Knit stitch machines. 3,433,191, 3-18-69, Cl. 112-166.
Goebel, Helmut: *See—*
Frensch, Heinz; Goebel, Helmut; and Hartel, Kurt,3,461,209.
Goebel, Robert H. Piezoelectric analog multiplier. 3,471,688, 10-7-69, Cl. 235-194.
Goeders, John J. Portable pitching mound. 3,479,028, 11-18-69, Cl. 273-25.
Goedkoop, Johan. System of two vertical columns of movable support units. 3,447,664, 6-3-69, Cl. 198-85.
Goehler, Elmer E., to Central Brass & Aluminum Foundry. Self-compensating servo system control unit. 3,433,018, 3-18-69, Cl. 60-54.5
Goehre, Otto: *See—*
Friedrichsen, Wilhelm; and Goehre, Otto,3,464,930.
Friedrichsen, Wilhelm; Poehler, Guenter; and Goehre, Otto,3,478,063.
Goeke, Alfons, to Kieserling, Th., & Albrecht. Apparatus for clamping and sealing pipes or the like. 3,434,337, 3-25-69, Cl. 73-49.8
Goeldner, Herbert; and Grewe, Ferdinand, to Farbenfabriken Bayer Aktiengesellschaft. Synergistic fungicidal composition. 3,472,936, 10-14-69, Cl. 424-274.
Goeldner, Richard W., to Aqua-Chem, Inc. Method and apparatus for vapor compression distillation and vapor washing of impure water. 3,480,515, 11-25-69, Cl. 203-10.
Goell, James E., to Bell Telephone Laboratories, Incorporated. High-speed frequency modulation deviator. 3,440,567, 4-22-69, Cl. 332-16.
Goeller, Leopold F., Jr.; and Nervik, John M., to Bell Telephone Laboratories, Incorporated. Equipment for testing showering resistance on communication lines. 3,431,368, 3-4-69, Cl. 179-175.2
Goeller, Leopold F., Jr.: *See—*
Budlong, Albert H.; Calhoun, Edward T. D.; and Goeller, Leopold F., Jr.,3,441,678.

Goelz, Horst; Suter, Hubert; Brunnmueller, Friedrich; and Palm, Albert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous production of 1,4,5,6,7,7-hexa- chlorobicyclo-[2,2,1]-5-heptene-2,3-dicarboxylic acid. 3,449,412, 6-10-69, Cl. 260-514.
Goemann, Juergen; and Grimm, Wolfgang, to Hauni-Werke Korber & Co., KG. Cutting mechanism for cigarette machines or the like. 3,479,913, 11-25-69, Cl. 83-310.
Goench, Mahmut I.: *See—*
Shapiro, John, 3,471,930.
Goepfert, Benjamin L.; and Visser, Robert C., to Shell Oil Company. Underwater pipeline with spoilers. 3,454,051, 7-8-69, Cl. 138-178.
Goepfert, Joseph: *See—*
Vogelsang, Herbert; and Goepfert, Joseph,3,473,575.
Goeppel, Allen A., to Armco Steel Corporation. Apparatus for handling pipe and the like. 3,435,962, 4-1-69, Cl. 214-1.
Goerens, Robert, to Compagnie de Saint-Gobain. Manufacture of sheets or wicks from fibers of thermoplastic material such as glass fibers. 3,445,207, 5-20-69, Cl. 65-10.
Goering, Gordon: *See—*
Sissons, Frank M., Jr.; and Goering, Gordon,3,446,710.
Goerke, James R.; and Franz, Dale W., to Bendix Corporation, The. Power boost mechanism. 3,459,062, 8-5-69, Cl. 74-388.
Goerke, Rolf; Bisch, Helmut; Togel, Kurt; and Speck, Werner, to Siemens Aktiengesellschaft. Sample carrier for X-ray spectrometers and the like. 3,478,207, 11-11-69, Cl. 250-51.5
Goerner, Johannes G.: *See—*
Gerhardt, Lester A.; Goerner, Johannes G.; and Powell, Frederic D.,3,435,422.
Goerz, Arthur A. Drafting machine. 3,462,846, 8-26-69, Cl. 33-109.
Goerz, David J., Jr., to Bechtel International Corporation, mesne. R.F. seal in microwave drier. 3,475,827, 11-4-69, Cl. 34-1.
Goerz, David J., Jr.: *See—*
Schreiber, Henry; Goerz, David J., Jr.; Hankin, Jerome W.; and Stephansen, Erik W.,3,449,836.
Goessman, John C.: *See—*
Babunovic, Momir; and Goessman, John C.,3,477,557.
Goetchius, Ronald J.; and Nolting, Jerry L., to Texaco Inc. Automatic transmission shift timing method and device. 3,482,441, 12-9-69, Cl. 73-118.
Goetel Inc.: *See—*
Van Ornum, Delbert G., 3,480,829.
Goetgheluck, Remi, to Societe Civile dite N.G.T. Process for the manufacture of articles from plastics material or having at least one plastic state. 3,471,601, 10-7-69, Cl. 264-93.
Goettel, Arthur C. Collapsible mop holder. 3,458,886, 8-5-69, Cl. 15-147.
Goettl, Adam D. Swimming pool construction. 3,439,362, 4-22-69, Cl. 4-172.
Goettsch, Walter J., to Harris-Intertype Corporation. Rotary stripping unit. 3,459,080, 8-5-69, Cl. 83-98.
Goetz, Alexander, to California Institute Research Foundation. Device and process for collecting particulates from gases. 3,475,951, 11-4-69, Cl. 73-28.
Goetz, Edward E. Rotatable thermal transfer units. 3,477,499, 11-11-69, Cl. 165-86.
Goetz, George W.; and Weinstein, Norman W., to Impact Casting Co., Inc. Apparatus for die casting materials of relatively high melting temperatures. 3,435,880, 4-1-69, Cl. 164-155.
Goetz, George W.; and Weinstein, Norman W., to Impact Casting Co., Inc. Methods of die casting materials of relatively high melting temperatures. 3,476,172, 11-4-69, Cl. 164-133.
Goetz, John H.: *See—*
Ryan, John W.; Echterling, Eugene J.; Golden, Michael E.; Goetz, John H.; and Chang, Richard Shih-Teng,3,477,140.
Goetz, Raymond J.; Hawkins, Thomas W.; and Rose, Joseph F., to Martin-Marietta Corporation. Automated hot gas soldering apparatus for attaching a plurality of flat pack integrated circuits to a printed circuit substrate. 3,420,430, 1-7-69, Cl. 228-47.
Goetzberger, Adolf, to Bell Telephone Laboratories, Incorporated. Avalanche photodetector utilizing an A-C component of bias for suppressing microplasmas. 3,453,435, 7-1-69, Cl. 250-211.
Goetzberger, Adolf, to Bell Telephone Laboratories, Incorporated. Information storage devices. 3,474,285, 10-21-69, Cl. 315-11.
Goetzberger, Adolf; and Nicollian, Edward H., to Bell Telephone Laboratories, Incorporated. Amplifier using current conduction through wide gap layer. 3,477,033, 11-4-69, Cl. 330-30.
Goetze-Claren, Wolfgang. Salts of furan carboxylic acids with thiamine and its salts. 3,432,504, 3-11-69, Cl. 260-256.6
Goetze, Gerhard W.; and Boerio, Alvin H., to Westinghouse Electric Corporation. Secondary electron conduction storage system. 3,441,787, 4-29-69, Cl. 315-12.
Goetzewerke Friedrich Goetze A.G.: *See—*
Baumler, Hermann, 3,471,159.
Feller, Otto; and Vossieck, Paul, 3,425,240.
Feller, Otto; and Vossieck, Paul, 3,470,710.
Meyer, Franz Josef, 3,432,931.
Teucher, Siegfried; and Kling, Hans, 3,433,490.
Vossieck, Paul, 3,470,602.
Goetzke, Juergen, to Vickers-Zimmer Aktiengesellschaft, Planung und Bau von Industricanlagen. Extraction tube for extracting lower molecular components from granulated polyamides. 3,423,183, 1-21-69, Cl. 23-270.
Goff, James A.: *See—*
Tudor, Edward C.; and Goff, James A.,3,431,389.
Goff, Milton L., to Mallory, P. R., & Co., Inc. Multiphase static inverter. 3,448,366, 6-3-69, Cl. 321-5.
Goff Raymon L.; and White, Hollis N., Jr., to TRW Inc. Hydrostatic device. 3,452,543, 7-1-69, Cl. 60-52.
Goff, Raymon L., to TRW Inc. Hydraulic power system. 3,481,147, 12-2-69, Cl. 60-52.
Goff, Raymon L.: *See—*
Monroe, Thomas I.; and Goff, Raymon L.,3,443,378.
Goff, Willie, Jr.: *See—*
Caudill, Allison H.; and Goff, Willie, Jr.,3,432,020.
Goff, Willie, Jr.; and Spears, Jesse W., to International Business Machines Corporation. Easy loading ribbon package. 3,424,292, 1-28-69, Cl. 197-151.
Goffe, Charles A.: *See—*
Gilman, Paul B.; Goffe, Charles A.; and Jones, Jean E.,3,446,619.
Goffe, Charles Allen, to Eastman Kodak Company. Photographic emulsion containing a block polymer sensitized with saponin. 3,433,639, 3-18-69, Cl. 96-107.
Goffin, Joseph. Farming sprayer. 3,459,375, 8-5-69, Cl. 239-127.
Goffinet, Bernard: *See—*
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.
Goffredo, Onofrio: *See—*
Bernardi, Luigi; Bosisio, Germano; de Castiglione, Roberto; and Goffredo, Onofrio,3,472,832.
Goforth Brothers, Inc.: *See—*
Goforth, Samuel P.; and Goforth, Joseph A., 3,484,104.
Goforth, John L.; and Flanders, Andrew E., to General Dynamics Corporation. Welding station. 3,430,028, 2-25-69, Cl. 219-87.
Goforth, Joseph A.: *See—*
Goforth, Samuel P.; and Goforth, Joseph A.,3,484,104.
Goforth, Samuel P.; and Goforth, Joseph A., to Goforth Brothers, Inc. Amusement ride device. 3,484,104, 12-16-69, Cl. 272-29.
Gogarty, William B., to Marathon Oil Company. Processes for the simultaneous displacement of petroleum and water in formations. 3,443,636, 5-13-69, Cl. 166-268.
Gogarty, William B., to Marathon Oil Company. Production of crude oil from a watered-out subterranean formation. 3,455,385, 7-15-69, Cl. 166-274.
Gogarty, William B., to Marathon Oil Company. Production from subterranean formations using micellar dispersions. 3,455,389, 7-15-69, Cl. 166-274.
Gogarty, William B., to Marathon Oil Company. Oil recovery process utilizing miniature slug of oil external micellar dispersion. 3,467,188, 9-16-69, Cl. 166-274.
Gogarty, William B., to Marathon Oil Company. Continuous density-determining device and process. 3,483,732, 12-16-69, Cl. 73-32.
Gogarty, William B.; and Jones, Robert G., to Marathon Oil Company. Stability of a secondary-type crude petroleum recovery system. 3,467,187, 9-16-69, Cl. 166-273.
Gogarty, William B.; and Jones, Stanley C., to Marathon Oil Company. Stimulation of injection wells with water-external micellar dispersions. 3,474,865, 10-28-69, Cl. 166-274.
Gogarty, William B.; and Meabon, Harold P., to Marathon Oil Company. Processes for the simultaneous displacement of petroleum and water in formations. 3,443,635, 5-13-69, Cl. 166-4.
Gogarty, William B.: *See—*
Nielson, Gary I.; and Gogarty, William B.,3,473,572.
Goggins, Franklin, to True Car Value, Inc. Self-sealing safety tire. 3,444,918, 5-20-69, Cl. 152-347.
Gogia, Jugal K.; Hinde, William L.; and Seldner, Kurt, to TRW, Inc. Modular gas turbine energy system. 3,427,466, 2-11-69, Cl. 307-57.
Gohlke, Roland S.: *See—*
Karle, Franklin J.; and Gohlke, Roland S.,3,471,735.
Gohrbandt, Wilhelm: *See—*
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert,3,470,178.
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert,3,486,837.
Gohs, Howard C., to Electrical Fittings Corporation. Threaded lock washer and method for fabrication thereof. 3,453,672, 7-8-69, Cl. 10-73.
Gohs, Howard C., to Electrical Fittings Corporation. Threadless coupler for joining electrical conduit or the like. 3,482,857, 12-9-69, Cl. 285-178.
Going, Louis H.: *See—*
Dobson, Robert D.; Going, Louis H.; and Hair, Eddy R.,3,449,133.
Going, Louis H.; Mersfelder, Robert E.; and Schmitt, Robert O., to Procter & Gamble Company, The. Continuous solvent winteriza-

tion of partially hydrogenated soybean oil. 3,450,727, 6-17-69, Cl. 260-428.5
Goings, Harford E. Disposable tray. 3,434,649, 3-25-69, Cl. 229-28.
Goings, Harford E. Foldable tray. 3,434,650, 3-25-69, Cl. 229-28.
Goins, Buren L.; Lewis, Hazel W.; and Dellinger, Larry D., to Carter, A. B., Incorporated. Knot tying mechanism. 3,427,057, 2-11-69, Cl. 289-3.
Goins, Robert R., to Phillips Petroleum Company. Oriented thermoplastic container closures. 3,430,797, 3-4-69, Cl. 215-41.
Goins, Robert R. Blending. 3,456,922, 7-22-69, Cl. 259-4.
Goitiandia, Peter; and Kelly, Austin T., to Weston Instruments, Inc. Dual set point solid state relays. 3,439,181, 4-15-69, Cl. 307-38.
Gokel, Gustav, Maschinenfabrik GmbH: *See*—
Eckstein, Philipp, 3,459,309.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D., to Caterpillar Tractor Company. Transmission with selector valves. 3,444,762, 5-20-69, Cl. 74-754.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D., to Caterpillar Tractor Company. Fluid controls for automatically neutralizing a vehicle. 3,444,968, 5-20-69, Cl. 192-4.
Golan, Kenneth F.; Pearce, Shairyl I.; and Horsch, Joachim, to Caterpillar Tractor Company. Automatic transmission control. 3,452,621, 7-1-69, Cl. 74-752.
Goland, David V.; and Stapleton, Samuel E., to Signode Corporation, mesne. Strapping apparatus. 3,450,028, 6-17-69, Cl. 100-7.
Golant, Mikhail Borisovich; Negirev, Alexandr Andreevich; Tager, Alexandr Semnovich; Pobedonostsev, Alexandr Sergeevich; Zjulina, Elena Aristarkhovna; and Samorodova, Galina Alexandrovna. Slow wave structure for tubes comprising a stack of metal laminations parallel to the axis of the electron beam. 3,436,690, 4-1-69, Cl. 333-31.
Golay & Co., Inc.: *See*—
Kuster, Harry B., 3,451,568.
Golay, Bernard, S.A.: *See*—
Berney, Jean Claude, 3,440,815.
Golay Buchel & Cie S.A.: *See*—
Favre, Robert, 3,436,631.
Golben, Michael, to Minnesota Mining and Manufacturing Company. Mechanical plating. 3,460,977, 8-12-69, Cl. 117-109.
Golberine, Boris; and Berr, Roger, to Berr et Cie. Bracelet or like article of jewelry capable of being immediately brought to size. 3,478,537, 11-18-69, Cl. 63-4.
Gold, Bernard; and Tierney, Joseph, to Massachusetts Institute of Technology. Voice vocoding and transmitting system. 3,471,644, 10-7-69, Cl. 179-15.55
Gold, Daniel H.: *See*—
Luberoff, Benjamin; and Gold, Daniel H.,3,441,586.
Luberoff, Benjamin J.; and Gold, Daniel H.,3,441,587.
Astley, Edward T.; King, Daniel L.; and Gold, Daniel,3,439,176.
Gold, Donald A., to Pacific International Plastics. Method for dielectrically heat sealing the end cover of a headrest and forming a peripheral welt therearound. 3,473,208, 10-21-69, Cl. 29-91.1
Gold, Gorge: *See*—
Bronstien, Edward L., Jr.; Fisher, Richard A.; and Gold, Gorge,3,449,190.
Gold, Harold E.; and Hammann, Paul E., to American Air Filter Company, Inc. Air handling unit. 3,464,487, 9-2-69, Cl. 165-16.
Gold, Harold; and Macks, Fred. High strength stud or insert. 3,477,335, 11-11-69, Cl. 85-62.
Gold, Heinrich: *See*—
Danhauser, Justus; Gold, Heinrich; Holtschmidt, Hans; and Pelz, Willibald,3,467,630.
Petersen, Siegfried; Gold, Heinrich; Grundmann, Ekkehard; and Juhling, Lieselotte,3,461,130.
Gold, Marvin H.: *See*—
Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J.,3,440,282.
Gold, Marvin H.; and Marcus, Henry J., to Aerojet-General Corporation. 1-Chloro-1,1-dinitro-3-cyano propane. 3,432,540, 3-11-69, Cl. 260-465.7
Gold Medal Products Co.: *See*—
Evans, David B.; and Evans, John C., 3,421,475.
Gold, Murray I., to Xerox Corporation. Electrostatic recording method and apparatus for reducing recording area of a stylus. 3,484,792, 12-16-69, Cl. 346-74.
Gold, Murray I.: *See*—
Saeger, Waldemar; and Gold, Murray I.,3,484,791.
Gold, Nathan, to Polaroid Corporation. Color television system employing superimposed red and white images. 3,443,025, 5-6-69, Cl. 178-5.4
Gold, Nathan, to Polaroid Corporation. Color TV decoding. 3,485,943, 12-23-69, Cl. 178-5.4
Gold, Nicholas: *See*—
Chen, Richard J.; and Gold, Nicholas,3,424,074.
Chen, Richard J.; and Gold, Nicholas,3,438,835.
Chen, Richard J.; and Gold, Nicholas,3,453,138.
Chen, Richard J.; and Gold, Nicholas,3,460,456.
Chen, Richard J.; and Gold, Nicholas,3,473,459.
Gold, Nicholas, to Polaroid Corporation. Variable length control for photographic apparatus. 3,460,453, 8-12-69, Cl. 95-14.
Gold, Percy E. Electrical connector. 3,441,899, 4-29-69, Cl. 339-95.
Gold, Robert M., to Keuffel & Esser Company. Method of thermally recording, and electrically retrieving information. 3,428,952, 2-18-69, Cl. 340-173.
Gold, Robert M., to Keuffel & Esser Company. Method of dyeing polyethylene terephthalate polymer films, strands and yarns. 3,467,481, 9-16-69, Cl. 8-4.
Gold, William L., to Dow Chemical Company, The. Hydrocolloid surface treatment to yield french fried potato products. 3,424,591, 1-28-69, Cl. 99-100.
Goldammer, Freeland R., to Sperry Rand Corporation. Control apparatus for positioning mechanisms. 3,428,384, 2-18-69, Cl. 312-223.
Goldammer, Freeland R.; and Powers, Joseph A., to Sperry Rand Corporation. Article handling apparatus. 3,473,675, 10-21-69, Cl. 214-1.
Goldammer, Freeland R.: *See*—
Zurbuchen, Louis E.; and Goldammer, Freeland R.,3,431,401.
Goldammer, Georg; and Mahrt, Gunter, to Deutscher Spinnereimaschinenbau Ingolstadt Niederlassung der Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Apparatus for opening bales of fibres. 3,443,285, 5-13-69, Cl. 19-81.
Goldberg, Abraham A.: *See*—
Goldmark, Peter C.; and Goldberg, Abraham A.,3,479,447.
Goldberg, Alan August; and Wray, Dennis, to Precision Processes (Textiles) Limited. Reaction product of a polyamide, a halogenated polyoxyalkylene, and an epihalohydrin. 3,459,697, 8-5-69, Cl. 260-29.2
Goldberg, Allan M., to American Hospital Supply Corporation, mesne. Thoracentesis apparatus. 3,477,437, 11-11-69, Cl. 128-347.
Goldberg Brothers, Inc.: *See*—
Goldberg, Morris, 3,441,128.
Goldberg, Morris, 3,450,329.
Goldberg, Morris, 3,450,366.
Goldberg, Charles K., to Dreis & Krump Manufacturing Company. Drive speed control. 3,448,828, 6-10-69, Cl. 184-6.
Goldberg, Frederick I.; and Petrucelli, Robert Calwell. Amphitheater complex with integral parking facilities. 3,427,766, 2-18-69, Cl. 52-6.
Goldberg, Harold S.: *See*—
Karsh, Herbert; and Goldberg, Harold S.,3,438,367.
Goldberg Herbert E., to American Optical Company. Temperature compensating refractormeters. 3,447,875, 6-3-69, Cl. 356-135.
Goldberg, Ira I; and Fisher, George I., to United States of America, Army. Crosswind sensing system. 3,447,372, 6-3-69, Cl. 73-189.
Goldberg, Irving B. Gelled propellant compositions useful in aerosol dispensers. 3,461,079, 8-12-69, Cl. 252-305.
Goldberg, Jacob, to Stanford Research Institute. Controllable logic circuits employing functionally indentical gates. 3,446,990, 5-27-69, Cl. 307-215.
Goldberg, Leo: *See*—
Abrahams, David H.; and Goldberg, Leo,3,445,279.
Goldberg, Leon J., to General Electric Company. Peak demand current limiting control system. 3,423,598, 1-21-69, Cl. 307-35.
Goldberg, Leon J., to General Electric Company. Assisted arc A.C. circuit interruption. 3,466,503, 9-9-69, Cl. 317-11.
Goldberg, Leonard J., to United States of America, Navy, mesne. Apparatus for quantitatively detecting foreign particles present in atmospheric air. 3,457,407, 7-22-69, Cl. 250-71.
Goldberg, Lloyd W.: *See*—
Adams, Victor J., Jr.; Goldberg, Lloyd W.; and Wolf, Herbert S.,3,462,954.
Goldberg, Martin: *See*—
Riffkin, Charles; and Goldberg, Martin,3,426,130.
Goldberg, Moise Levy. Triple point desalination system utilizing a single low pressure vessel and a gravity sea water feed. 3,443,393, 5-13-69, Cl. 62-124.
Goldberg, Morris, to Goldberg Brothers, Inc. Film reel shipping container. 3,441,128, 4-29-69, Cl. 206-52.
Goldberg, Morris, to Goldberg Brothers, Inc. Shipping carton for film reels and the like. 3,450,329, 6-17-69, Cl. 229-23.
Goldberg, Morris, to Goldberg Brothers, Inc. Self-threading film reel with free-wheeling hubs. 3,450,366, 6-17-69, Cl. 242-74.
Goldberg, Moses Wolf: *See*—
Teitel, Sidney; and Goldberg, Moses Wolf,3,481,980.
Goldberg, Paul. Expansible waistband for trousers. 3,438,061, 4-15-69, Cl. 2-237.
Goldberg, Regina Hauser: *See*—
Teitel, Sidney; and Goldberg, Moses Wolf,3,481,980.
Goldberg, Seymour, to EG & G, Inc. Electric flash beacon. 3,444,431, 5-13-69, Cl. 315-200.
Goldberg, Sidney L., to United States of America, Navy. Rolling wheel test device. 3,483,744, 12-16-69, Cl. 73-146.
Goldberger Doll Mfg. Co., Inc.: *See*—
Doppelt, Lawrence; and Rodriguez, Augustin, 3,445,956.

Goldberger, Max; and Neuhold, Hellfried, to Pioneer Research, Inc. Explosive metal forming, sintering and plating. 3,427,841, 2-18-69, Cl. 72a56.
Goldberger, Richard H. Mixing and conveyor system. 3,459,409, 8-5-69, Cl. 259-168.
Goldberger, William M., to Battelle Development Corporation, The, mesne. Separating liquefiable materials forming solid solutions. 3,461,679, 8-19-69, Cl. 62-58.
Goldberger, William M.; and Gillot, Jacques, to Battelle Development Corporation, The, mesne. Separation methods for volatile solids. 3,457,049, 7-22-69, Cl. 23-294.
Goldberger, William M.; Reed, Allan K.; and Snavely, Cloyd A., to Battelle Development Corporation, The. Electrical resistivity control of fluidized beds. 3,448,234, 6-3-69, Cl. 219-50.
Goldblatt, Leo A.: *See—*
Masri, Merle Sid; Vix, Henry L. E.; and Goldblatt, Leo A.,3,429,709.
Goldblum, Kenneth B., to General Electric Company. Polycarbonate resin mixtures. 3,431,224, 3-4-69, Cl. 260-13.
Golde, Ernst: *See—*
Forster, Johannes; and Golde, Ernst,3,439,254.
Golde, H. T., G.m.b.H., Firma: *See—*
Marr, Fritz, 3,427,748.
Golde, Hans: *See—*
Werner, Johannes; Golde, Hans; and Schlick, Horst,3,443,307.
Golde, Karl Heinz: *See—*
Buschmann, Horst; and Golde, Karl Heinz,3,446,269.
Golde, Karl-Heinz; and Buschmann, Horst, to Schloemann Aktiengesellschaft. Apparatus for pouring molten metal. 3,460,725, 8-12-69, Cl. 222-567.
Golden, Abraham H., to Eaton Yale & Towne, Inc. Side bar lock. 3,479,848, 11-25-69, Cl. 70-364.
Golden, Daniel L. Head cover. 3,447,541, 6-3-69, Cl. 132-5.
Golden, Dorothy L. Surgical scrubbing device. 3,467,978, 9-23-69, Cl. 15-111.
Golden, Forrest B.: *See—*
Eisengrein, Robert H.; Blackwell, Francis O., III; and Golden, Forrest B.,3,441,817.
Golden Gate Manufacturing Company: *See—*
Doremus, R Ellsworth; and Doremus, Richard E., 3,455,327.
Doremus, R. Ellsworth; and Doremus, Richard E., 3,476,138.
Golden, Harry, to Ideas for Auto and Bike Specialties, Inc. Plastic saddle and metal mounting rod and method of making same. 3,476,496, 11-4-69, Cl. 297-195.
Golden, James E., to Reliable Electric Company. Splice for conductor pairs. 3,480,723, 11-25-69, Cl. 174-88.
Golden, Michael E.: *See—*
Ryan, John W.; Echterling, Eugene J.; Golden, Michael E.; Goetz, John H.; and Chang, Richard Shih-Teng,3,477,140.
Ryan, John W.; Frederick, Phyllis; Golden, Michael E.; and Zimmerman, Charles R.,3,456,944.
Golden, Raymond; Murzyn, Robert A.; and Wilson, William E., to Bailey Meter Company. Flame detector for a multiple fuel-fired furnace. 3,476,945, 11-4-69, Cl. 250-217.
Golden, Richard L.: *See—*
Choo, Chai Y.; and Golden, Richard L.,3,459,810.
Golden, Richard L.; and Korchak, Ernest I., to Halcon International, Inc. Process for the hydrogenolysis of alkylaromatic alcohols to the corresponding hydrocarbons. 3,424,806, 1-28-69, Cl. 260-669.
Golden, Richard L.; and Mazzella, Gerald, to Halcon International, Inc. Recovery of boron compounds from oxidation mixtures. 3,423,471, 1-21-69, Cl. 260-617.
Golden, Richard L.; and Schmidt, John P., to Halcon International, Inc. Process for the recovery of epoxides wherein alkylaromatic compound is removed in two distillation zones. 3,452,055, 6-24-69, Cl. 260-348.5
Golden, Robert L., to Robertshaw Controls Company. Fluidic controlled water valve or the like. 3,421,732, 1-14-69, Cl. 251-58.
Golden, Robert L., to Robertshaw Controls Company. Programmer means and parts therefor. 3,440,368, 4-22-69, Cl. 200-38.
Golden, Robert L., to Robertshaw Controls Company. Pneumatically controlled dispensing apparatus. 3,459,332, 8-5-69, Cl. 222-61.
Golden, Robert L., to Robertshaw Controls Company. Fluidically operated actuator means or the like. 3,483,800, 12-16-69, Cl. 92-99.
Golden, Robert L.; and Shopsky, Harvey J., to Robertshaw Controls Company. Fluidic operated speed control means. 3,425,288, 2-4-69, Cl. 74-230.17
Golden, Robert L.; Wantz, Clarence; Rice, Harold W.; Beck, Roland D.; and Palmer, Reed A., to Robertshaw Controls Company. Vacuum operated electrical switch construction. 3,428,768, 2-18-69, Cl. 200-83.
Golden, Robert L.: *See—*
Wantz, Clarence; and Golden, Robert L.,3,454,784.
Golden, Roger M.: *See—*
Flanagan, James L.; Golden, Roger M.; and Schroeder, Manfred R.,3,466,547.
Golden-West Dental, Inc.: *See—*
Ehrler, Clelan G.; and Seifert, Larry A., 3,440,726.
Goldenberg, Charles: *See—*
Binon, Fernand; and Goldenberg, Charles,3,452,052.
Goldenberg, Malvin H. Coupling end reinforcement for flexible conduit. 3,431,948, 3-11-69, Cl. 138-109.
Goldenthal, Edgar J. Stereoscopic dental X-ray apparatus and method for positioning the X-ray cone for exposure. 3,454,763, 7-8-69, Cl. 250-61.
Goldentone Electronics, Inc.: *See—*
Daniels, William Lee, 3,470,328.
Golder, Gerald William, to Sankey, Joseph, & Sons Limited. Freight containers. 3,456,830, 7-22-69, Cl. 220-1.5
Goldfaden, Louis: *See—*
Ulert, Izaak A., 3,480,228.
Goldfarb, Adolph Eddy. Head having two degrees of randomly selected movement. 3,456,950, 7-22-69, Cl. 273-161.
Goldfarb, Adolph Eddy. Toy with randomly released part. 3,466,792, 9-16-69, Cl. 46-146.
Goldfarb, Adolph E. Control means for toy electric racing cars. 3,432,166, 3-11-69, Cl. 273-86.
Goldfarb, Adolph E. Animated jigsaw puzzle toy. 3,432,961, 3-18-69, Cl. 46-37.
Goldfarb, Adolph E.; and Davis, Jane Betts. Self-contained contact alarm device. 3,465,325, 9-2-69, Cl. 340-258.
Goldfarb, Alvin; and Geiler, William A., to United Merchants and Manufacturers, Inc. Medical bandages. 3,464,413, 9-2-69, Cl. 128-268.
Goldfinger, George, to Uniroyal, Inc. Tensile testing apparatus. 3,447,363, 6-3-69, Cl. 73-95.
Goldhofer, Alois. Movable loading and unloading device. 3,456,820, 7-22-69, Cl. 214-77.
Goldie, Harry, to Westinghouse Electric Corporation. Flat resonant element for TR tubes. 3,467,884, 9-16-69, Cl. 315-39.
Goldie, Harry, to Westinghouse Electric Corporation. Thyratron waveguide switch with density enhancement for operation in 27 to 40 gHz. range. 3,480,828, 11-25-69, Cl. 315-39.
Goldie, Harry; Cooper, Herbert W.; and Cooper, Lawson F., to Westinghouse Electric Corporation. Grounded-grid cathode-driven triggered waveguide switch. 3,440,486, 4-22-69, Cl. 315-39.
Goldie, Harry; and Nelson, Theodore M., to Westinghouse Electric Corporation. Microwave switching device. 3,467,883, 9-16-69, Cl. 315-39.
Goldin, Michael M.: *See—*
Tittmann, Frederick R.; and Goldin, Michael M.,3,472,795.
Tittmann, Frederick R.; Goldin, Michael M.; and Loeb, William E.,3,429,739.
Golding, Brage: *See—*
Bachman, Gustave Bryant; Golding, Brage; and Murphy, Thomas P.,3,448,086.
Golding, Frank E., to Reliance Electric and Engineering Company, The, mesne. Mixer-chopper. 3,450,179, 6-17-69, Cl. 146-182.
Golding Intercito SA.: *See—*
Poll, Willy, 3,450,249.
Golding, Sherwin A.; and Summers, John E., to Robertson, H. H., Company. Film forming composition and protected metal articles utilizing the same. 3,443,983, 5-13-69, Cl. 117-75.
Goldkamp, Arthur H., to Searle, G. D., & Co. 17-Oxygenated 3-alkoxy-2-aminosulfonylestra-1,3, 5(10)-trienes and congeners. 3,480,618, 11-25-69, Cl. 260-239.5
Goldkamp, Arthur H.: *See—*
Mazur, Robert H.; Goldkamp, Arthur H.; and Schlatter, James M.,3,475,403.
Goldman, Alan J.: *See—*
Rader, William M.; Goldman, Alan J.; and Winter, Joseph,3,470,607.
Winter, Joseph; and Goldman, Alan J.,3,481,020.
Goldman, Albert W.: *See—*
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander,3,421,050.
Goldman, Alex K., to Grace, W. R., & Co. Reclosable container. 3,458,110, 7-29-69, Cl. 229-17.
Goldman, Cleo W. Brassiere. 3,446,213, 5-27-69, Cl. 128-463.
Goldman, David, to Better Built Machinery Corporation. Machines for washing laboratory equipment such as flasks, bottles, test tubes and similar articles. 3,463,173, 8-26-69, Cl. 134-145.
Goldman, Edward L.: *See—*
Stone, Wayne B., Jr., 3,440,782.
Goldman, Herbert S., to Acme Quilting Company, Inc. Combination mat and tote bag. 3,477,552, 11-11-69, Cl. 190-2.
Goldman, Irving M., to Pfizer, Chas., & Co., Inc. Substituted 8-hydroxy-quinoline derivatives. 3,444,173, 5-13-69, Cl. 260-288.
Goldman, Irving M., to Pfizer, Chas., & Co., Inc. Pyrimidobenzothiazines. 3,483,198, 12-9-69, Cl. 260-243.
Goldman, Israel, to McDonnell Douglas Corporation. Clamp latch. 3,460,788, 8-12-69, Cl. 248-74.
Goldman, Joseph, to Logistics Industries Corporation, mesne. Compartmentalized container. 3,421,679, 1-14-69, Cl. 229-15.
Goldman, Joseph, to Logistics Industries Corporation, mesne. Container. 3,445,051, 5-20-69, Cl. 229-14.

Goldman, Michael Ira; and Bouchal, Alexander Wayne, to Colgate-Palmolive Company. Chewable product for cleaning the teeth. 3,422,184, 1-14-69, Cl. 424-48.
Goldman, Morris, to Colonial Beverage Equipment. Apparatus for packaging articles. 3,427,779, 2-18-69, Cl. 53-61.
Goldman, Philip A.: *See—*
Andrews, John R., Jr.; Goldman, Philip A.; and Nibby, Chester M., Jr.,3,436,687.
Goldman, Robert, to Nysco Laboratories, Inc. Organic nitrate-bile acid inclusion compounds. 3,481,955, 12-2-69, Cl. 260-397.1
Goldman, Rubin. Pneumatic punch. 3,463,042, 8-26-69, Cl. 83-627.
Goldman, William A., to Canrad Precision Industries, Inc. Zinc-sulphide phosphor. 3,437,600, 4-8-69, Cl. 252-301.6
Goldmark, Peter C., to Columbia Broadcasting System, Inc. Disc recording and reproducing system. 3,420,967, 1-7-69, Cl. 179-100.4
Goldmark, Peter C.; and Erde, Bernard, to Columbia Broadcasting System, Inc. Method and apparatus for recording color picture information on film. 3,475,549, 10-28-69, Cl. 178-5.2
Goldmark, Peter C.; and Gabor, Dennis, to Columbia Broadcasting System, Inc. Color picture information recording and reproducing system. 3,459,885, 8-5-69, Cl. 178-5.4
Goldmark, Peter C.; and Goldberg, Abraham A., to Columbia Broadcasting System, Inc. Recording and reproducing color picture information. 3,479,447, 11-18-69, Cl. 178-5.2
Goldmerstein, Isaac. Cooling vest. 3,429,138, 2-25-69, Cl. 62-259.
Goldmeyer, Clifford: *See—*
Dull, Thomas J.; and Goldmeyer, Clifford,3,464,463.
Goldsby, Arthur E., to Texaco Development Corporation. Recovery of olefins from spent alkylation acid. 3,462,512, 8-19-69, Cl. 260-683.62
Goldsby, Arthur R., to Texaco Inc. Alkylation process employing acid treatment of the acid-olefin absorption product. 3,422,164, 1-14-69, Cl. 260-683.62
Goldsby, Arthur R., to Texaco Inc. Acid recovery process-alkylation process. 3,428,705, 2-18-69, Cl. 260-683.62
Goldsby, Arthur R., to Texaco Inc. Dialkyl ester extractions in an alkylation process. 3,448,168, 6-3-69, Cl. 260-683.61
Goldschmid, Otto: *See—*
Quimby, George R.; and Goldschmid, Otto,3,423,395.
Goldschmidt, A.G., The: *See—*
Knorr, Peter, 3,450,503.
Goldschmidt, Hans; Gordon, Theodore J.; and Helmer, Olaf, to Kaiser Aluminum & Chemical Corporation. Apparatus for playing a game involving forecasting of future events. 3,473,802, 10-21-69, Cl. 273-1.
Goldschmidt, Karl: *See—*
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K.,3,426,158.
Goldschmidt, Th., A.G.: *See—*
Holtschmidt, Ulrich; and Michel, Alfred, 3,434,992.
Mack, Ernst, 3,473,891.
Sundermeyer, Wolfgang; and Verbeek, Wolfgang, 3,480,654.
Goldsmith, Bernard M.; Pike, Harold S., Jr.; and Belanger, Ernest Donald, to Nytronics, Inc. Theft-detection system for library use including a plurality of Hall cells. 3,423,674, 1-21-69, Cl. 324-45.
Goldsmith, Henry A., to United States Borax & Chemical Corporation. Stabilization of organic bleaching compositions. 3,474,037, 10-21-69, Cl. 252-99.
Goldsmith, John V.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,676.
Goldsmith, Lawrence. Dental spot light. 3,465,140, 9-2-69, Cl. 240-41.15
Goldsmith, Sidney. Biopsy needle. 3,470,867, 10-7-69, Cl. 128-2.
Goldsobel, Norman; and Eidelberg, Jonah, to Electrical Fittings Corporation. Rain tight electrical connector. 3,454,291, 7-8-69, Cl. 285-371.
Goldstein, Alan A., to Chevron Research Company. Single-stage process for making paving mixes. 3,434,856, 3-25-69, Cl. 106-277.
Goldstein, Albert S., Jr. Multiple motor dredge. 3,440,742, 4-29-69, Cl. 37-57.
Goldstein, Albert, to Chemirad Corporation. Partially cross-linked polycthylenimine anchoring agent and laminate therefor. 3,471,359, 10-7-69, Cl. 161-227.
Goldstein, Amnon: *See—*
Michalchik, Michael; and Goldstein, Amnon,3,482,513.
Goldstein, Arthur L.: *See—*
Mc Rae, Wayne A.; and Goldstein, Arthur L.,3,485,576.
Goldstein, David A.; Nystrom, Roy; Borchert, Alfred; and Eneman, Melvin, to United States of America, Army. Mechanical timer. 3,485,172, 12-23-69, Cl. 102-84.
Goldstein, David; and Gleason, Robert Joseph, to FMC Corporation. Production of barium hydroxide monohydrate. 3,449,075, 6-10-69, Cl. 23-186.
Goldstein, Eugene E.: *See—*
Barshefsky, Gustave; and Goldstein, Eugene E.,3,478,137.
Goldstein, Herbert M. Round of fixed ammunition having improved gun bore erosion characteristics. 3,429,261, 2-25-69, Cl. 102-38.
Goldstein, Herman B., to Sun Chemical Corporation. Textile treating compositions and textiles treated therewith. 3,486,911, 12-30-69, Cl. 106-2.
Goldstein, Murray S.: *See—*
Lerman, Harold; and Goldstein, Murray S., ,487,469.
Lerman, Harold; and Goldstein, Murray S.,3,463,912.
Lerman, Harold; and Goldstein, Murray S.,3,480,766.
Goldstein, Raymond, to Sperry Rand Corporation. Device for integrating a modulated A.C. signal. 3,466,434, 9-9-69, Cl. 235-183.
Goldstein, Richard, to Perma-Power Company. Garage door relay control circuit. 3,427,521, 2-11-69, Cl. 318-266.
Goldstein, Richard, to Chamberlain Manufacturing Corporation, mesne. Release mechanism for garage door connecting arm. 3,443,339, 5-13-69, Cl. 49-141.
Goldstein, Richard, to Chamberlin Manufacturing Corporation, mesne. Remote control receiver. 3,445,848, 5-20-69, Cl. 343-225.
Goldstein, Robert P. Automatic inventory data acquisition apparatus. 3,426,326, 2-4-69, Cl. 340-153.
Goldstein, Sam S.; and Copen, Daniel B., said Copen assor to Peerless Plastics, Incorporated. Compartmentalized attache case. 3,454,068, 7-8-69, Cl. 150-1.6
Goldstein, Sol. Rotary indicator. 3,434,658, 3-25-69, Cl. 235-84.
Goldstein, Sol. Slide rule. 3,441,208, 4-29-69, Cl. 235-70.
Goldstein, Theodore J.: *See—*
Proud, Ralph A., Jr.; O'Brien, Richard C.; Graubert, Seth; and Goldstein, Theodore J.,3,470,539.
Goldstern, Norbert. Device and system for scanning information supports. 3,473,034, 10-14-69, Cl. 250-219.
Goldstone, Edward G.; and Neumann, Hans K., to Allen Industries, Inc. Sound insulating barrier and method of making the same. 3,429,728, 2-25-69, Cl. 117-11.
Goldstone, Edward G.; Neumann, Hans K.; and Olsen, John A., to Allen Industries, Inc. Trim panel and method of making same. 3,446,685, 5-27-69, Cl. 156-219.
Goldthwait, Richard G.; and Kwolek, Stanley J., to Gulf Research & Development Company. Process for pretreating hydrocracking stock to remove nitrogen therefrom. 3,437,589, 4-8-69, Cl. 208-254.
Goldup, Alan; Morrison, Anthony B.; and Westaway, Michael Thomas, to British Petroleum Company Limited, The. Hydrocarbon separation process. 3,484,500, 12-16-69, Cl. 260-674.
Goldup, Alan; and Westaway, Michael Thomas, to British Petroleum Company Limited, The. Process for the separation of mixtures of hydro- carbons having different degrees of saturation. 3,472,762, 10-14-69, Cl. 208-308.
Goldwhite, Harold; Haszeldine, Robert Neville; and Rowsell, David George. Phosphorus-nitrogen polymers. 3,474,044, 10-21-69, Cl. 260-2.
Goldwire, Henry C.: *See—*
Flittie, William J., 3,427,790.
Flittie, William J., 3,452,715.
Golen, Selig. Day and date calendar clock mechanism. 3,482,391, 12-9-69, Cl. 58-5.
Golick, Alexander J.; and Stephan, John T., to Westix Corporation. Paper laminating adhesive compositions comprising protein-containing starch material. 3,444,109, 5-13-69, Cl. 260-6.
Golightly, James S., to PPG Industries, Inc. Producing bent laminated windshields. 3,453,161, 7-1-69, Cl. 156-102.
Golightly, James S., to PPG Industries, Inc. Outline mold for supporting glass sheets. 3,484,226, 12-16-69, Cl. 65-291.
Golitz, Dietrich; Noll, Walter; Damm, Klaus; and Krauss, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Polyester-polysiloxane resins giving coatings of increased gloss retension and color stability. 3,449,465, 6-10-69, Cl. 260-824.
Golla, William J.: *See—*
Lake, Clarence L.; Box, James A.; and Golla, William J.,3,427,776.
Goller, Edward S. Means for improving combustion in an internal combustion engine during deceleration. 3,446,193, 5-27-69, Cl. 123-97.
Goller, Edward S. Carburetor control means for internal combustion engine. 3,446,194, 5-27-69, Cl. 123-97.
Gollion, Henri-Jacques; Robin, Marcel; and Schwab, Bernard, to Commissariat a l'Energie Atomique. Thermal power plant and method of operation. 3,421,978, 1-14-69, Cl. 176-65.
Gollis, Bernard: *See—*
James, John C.; Wineman, Robert J.; Gollis, Morton H., deceased; and Gollis, Bernard; administratrix,3,454,627.
Gollis, Morton H.: *See—*
James, John C.; Wineman, Robert J.; and Gollis, Morton H.,3,462,429.
James, John C.; Wineman, Robert J.; Gollis, Morton H., deceased; and Gollis, Bernard; administratrix,3,454,627.
Golloway, William O., Jr., to Hoover Company, The. Suction cleaners. 3,467,980, 9-23-69, Cl. 15-324.
Gollwitzer, Lee H., to Schlumberger Technology Corporation. Method and apparatus for transmitting signals from a tool in a borehole. 3,464,058, 8-26-69, Cl. 340-18.
Gollwitzer, Lee H.; and Whitfill, William A., Jr., to Schlumberger Technology Corporation. Apparatus for handling well tool cables. 3,462,125, 8-19-69, Cl. 254-172.

Golner, Jerold Julius, to Borden, Inc. Apparatus for measuring film. 3,429,504, 2-25-69, Cl. 235-91.
Golner, Jerome F.: *See*—
Lee, Richard J.; and Golner, Jerome F.,3,426,646.
Golobart, Ramon Balaguer. Selvage forming device in shuttleless looms. 3,422,861, 1-21-69, Cl. 139-122.
Golobart, Ramon Balaguer. Selvedge forming device in shuttleless looms. 3,450,169, 6-17-69, Cl. 139-122.
Golobart, Ramon Balaguer. Weft thread locating and presenting device in weaving machines, particularly of the shuttleless type. 3,455,340, 7-15-69, Cl. 139-122.
Golobart, Ramon Balaguer. Selvage trimming and waste removal means. 3,455,342, 7-15-69, Cl. 139-302.
Golobart, Ramon Balaguer. Temples for shuttleless looms. 3,455,343, 7-15-69, Cl. 139-294.
Goloff, Alexander; Hautala, Richard E.; and White, Claude F., to Caterpillar Tractor Company. Friction welding Stellite facings to valve seats. 3,478,411, 11-18-69, Cl. 29-470.3
Golomb, David L., to Everlast World's Boxing Headquarters Corporation. Baseball base with ground-fastening rod. 3,466,039, 9-9-69, Cl. 273-25.
Golombek, Horst: *See*—
Fischer, Oskar; and Golombek, Horst,3,481,261.
Parke, Friedrich; and Golombek, Horst,3,459,110.
Golombek, Werner; and Timmermans, Franciscus, to U.S. Philips Corporation, mesne. Device for coupling a continuously operating self excited velocity modulation tube generator to a load. 3,462,704, 8-19-69, Cl. 331-74.
Golovkina, Tatyana Borisovna: *See*—
Krylov, Nikolai Ivanovich; Popov, Boris Vasilievich; Sidorov, Pavel Ivanovich; Saksagansky, Alexandr Teodorovich; Levitsky, Isaak Iosifovich; and Golovkina, Tatyana Borisovna,3,428,096.
Goltermann, Wandel U.: *See*—
Feistel, Karl Heinz, 3,443,250.
Goltsos, Costas E.; and Amato, Anthony, to Radio Corporation of America. Temperature controlled circuit boards. 3,440,407, 4-22-69, Cl. 219-494.
Goltz, Joseph, 25% to Bloom, I. C., and Bloom, George I. Stacking box construction with interlock. 3,424,334, 1-28-69, Cl. 220-23.6
Goman, Edwin F.: *See*—
Wilson, Charles M.; and Goman, Edwin F.,3,467,831.
Gombert, Jean-Marie: *See*—
Clement, Pierre; Gombert, Jean-Marie; and Petit, Rene,3,477,950.
Gomco Surgical Manufacturing Corporation: *See*—
Henderson, Stanford A., 3,421,534.
Henderson, Stanford A., 3,454,138.
Gomella, Cyril, to Societe d'Etudes pour le Traitement et l'Utilisation des Eaux (S.E.T.U.D.E.). Clarifying vessel for liquids. 3,446,357, 5-27-69, Cl. 210-195.
Gomez, Ernest; and Klahn, Richard, to Bell Telephone Laboratories, Incorporated. Serial binary multiplier arrangement. 3,456,098, 7-15-69, Cl. 235-164.
Gomez, Jose J.: *See*—
Lattis, Donald J.; Congleton, Wayne L.; and Gomez, Jose J.,3,479,759.
Gomez, Ludgero S. A.; and Forster, James Neil. Denture cleaning device. 3,421,528, 1-14-69, Cl. 134-188.
Gomi, Nagao: *See*—
Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao,3,434,277.
Gompert, Daryl Herman. Probe-type weeder and thinner apparatus for row crops. 3,468,380, 9-23-69, Cl. 172-6.
Goncharevich, Igor Fomich: *See*—
Vinitsky, Konstantin Efimovich; and Goncharevich, Igor Fomich,3,465,976.
Goncharoff, Nikolai, to Motorola, Inc. Sound reproducing system. 3,431,358, 3-4-69, Cl. 179-1.
Goncharoff, Nikolai: *See*—
Schafft, Hugo W.; and Goncharoff, Nikolai,3,431,516.
Gondeck, Frederick V.; Hickox, Lester E.; Kennedy, Thomas E.; Perez, Arthur; and Thompson, James F., to Declark, Inc. Foamed core laminated structure and method. 3,432,378, 3-11-69, Cl. 161-44.
Gondo, Takuya: *See*—
Kakihana, Hidetake; and Gondo, Takuya,3,485,737.
Gondolfi, Carmelo: *See*—
de Ruggieri, Pietro; Gondolfi, Carmelo; and Guzzi, Umberto,3,449,327.
Gonek, Stanislaw Mieczyslaw: *See*—
Barker, John; Gonek, Stanislaw Mieczyslaw; and Read, Brian Neville,3,443,484.
Barker, John; Gonek, Stanislaw Mieczyslaw; and Love, Kenneth George,3,453,407.
Gonsalves, George E.; and Dosso, Felice, to Eric Packaging Corp. Connector for tubular members. 3,423,113, 1-21-69, Cl. 287-51.
Gonser, William Arnold, to Du Pont de Nemours, E. I., and Company. Flexible conductor for pneumatically propelled yarn. 3,427,052, 2-11-69, Cl. 285-256.
Gonzaga University, The Corporation of: *See*—
Kelleher, Raymond L., 3,474,659.
Gonzales, Salvador J. Meathook holder arrangement. 3,429,278, 2-25-69, Cl. 104-89.
Gonzalez, Don J.: *See*—
Dahlem, Francis E.; and Gonzalez, Don J.,3,464,563.
Gonzalez, Federico P.: *See*—
Shepherd, William T.; Platte, Howard J.; and Gonzalez, Federico P.,3,458,444.
Gonzalez, Frank A., to Medical Electroscience Inc. Apparatus for collecting and cooling blood. 3,480,015, 11-25-69, Cl. 128-276.
Gonzalez, Gerardo A., to Betz Laboratories, Inc. Anti-foulant agents for petroleum hydrocarbons. 3,437,583, 4-8-69, Cl. 208-48.
Gonzalez, Gerardo A., to Betz Laboratories, Inc. Anti-foulant agents for petroleum hydrocarbons. 3,442,791, 5-6-69, Cl. 208-48.
Gonzalez, Hector J.: *See*—
Verdol, Joseph A.; and Gonzalez, Hector J.,3,444,151.
Gonzalez, Virgilio: *See*—
Tirado, Adalberto; Guevara, Mario; and Gonzalez, Virgilio,3,451,889.
Gonzenbach, Carlos T.; and Jordan, Manuel A., to Schenectady Chemicals, Inc. Terpene-urethane resins. 3,463,753, 8-26-69, Cl. 260-27.
Gooch, Ralph M.: *See*—
Walters, Harold A.; and Gooch, Ralph M.,3,442,755.
Good, Adrian J.: *See*—
Nusser, Lawrence; and Good, Adrian J.,3,463,754.
Good, Arthur L., to Robertshaw Controls Company. Arm construction for a pressure regulator and the like. 3,436,985, 4-8-69, Cl. 74-559.
Good, Arthur L., to Robertshaw Controls Company. Shuttle construction utilized to transmit the expansion and contraction effects of high and low pressure bellows and the like. 3,444,343, 5-13-69, Cl. 200-83.
Good, Arthur L., to Robertshaw Controls Company. Pressure or temperature regulator. 3,447,116, 5-27-69, Cl. 337-327.
Good, Arthur L., to Robertshaw Controls Company. Negating spring construction for a pressure regulator and the like. 3,447,390, 6-3-69, Cl. 74-100.
Good, Arthur L., to Robertshaw Controls Company. Pneumatic control system and selector means therefor or the like. 3,470,698, 10-7-69, Cl. 60-60.
Good, Dale E.: *See*—
Bunton, William J.; Beagles, John A.; and Good, Dale E.,3,430,349.
Good, Dorothy I.; and Morgan, Rose M., to Lab-line Biomedical Products, Inc. Automatic apparatus for applying covers to biological slides. 3,480,504, 11-25-69, Cl. 156-356.
Good Humor Corporation: *See*—
Otken, Edwin J., 3,468,265.
Good, John L.: *See*—
Rummel, William David; and Good, John L.,3,446,548.
Good, Louise L.; Whitney, Robert L.; Good, Raymond B.; and Pietrowicz, Ambrose L. Plating apparatus and process. 3,436,322, 4-1-69, Cl. 204-28.
Good, Paul J., to Minnesota Mining and Manufacturing Company. Quick intermittent advancement apparatus and method. 3,423,037, 1-21-69, Cl. 242-55.11
Good, Paul J., to Minnesota Mining and Manufacturing Company. Intermittent film advancement apparatus. 3,441,186, 4-29-69, Cl. 226-62.
Good, Raymond B.: *See*—
Good, Louise L.; Whitney, Robert L.; Good, Raymond B.; and Pietrowicz, Ambrose L.,3,436,322.
Good, Raymond J. Air diffuser unit for aerating sewage. 3,441,216, 4-29-69, Cl. 239-145.
Good, Richard Samuel Jonathan: *See*—
Angus, Ernest Thomas; Arthur, Hugh MacDonald; Montgomery, John Young Condie; Walker, Donald Ferguson; and Good, Richard Samuel Jonathan,3,457,480.
Good, Richard Samuel Jonathan, to Marwin Machine Tools Limited. Parallel gear trains with means for eliminating backlash. 3,444,751, 5-20-69, Cl. 74-409.
Good, Richard Samuel Jonathan; Kerr, Andrew Guy; Montgomery, John Young Condie; and Walker, Donald Ferguson, to Ferranti, Limited. Servo apparatus for controlling the position of an object in dependence of recorded signals. 3,453,511, 7-1-69, Cl. 318-23.5
Good Road Machinery Corporation: *See*—
Buchmann, Peter J., 3,438,585.
Good, William E.; Graser, Michael, Jr.; and Vanderlaan, Henry J., to General Electric Company. Color projection system. 3,450,462, 6-17-69, Cl. 350-161.
Good, William E.; and True, Thomas T., to General Electric Company. Projection system and method. 3,437,746, 4-8-69, Cl. 178-5.4
Good, Wilson C.: *See*—
McAllister, Byron T.; and Good, Wilson C.,3,460,085.
Goodacre, Cecil, to Lansing Bagnall Limited. Industrial lift trucks. 3,451,656, 6-24-69, Cl. 254-8.

Goodacre, Cecil, to Lansing Bagnall Limited. Vehicle differential steering mechanisms. 3,469,858, 9-30-69, Cl. 280-93.
Goodale, Edmund E., to General Electric Company. Volume control apparatus for a single-tone electronic musical instrument. 3,439,106, 4-15-69, Cl. 84-1.27
Goodale, Paul E., to E-H Research Laboratories, Inc. Pulse testing apparatus for testing a device with current pulses. 3,423,601, 1-21-69, Cl. 307-270.
Goodale, Paul H.: *See*—
Egbert, Earl L.; Goodale, Paul H.; and Stevenson, Paul D.,3,425,220.
Goodale, Richard J. Sanitary belt conveyor. 3,442,370, 5-6-69, Cl. 198-192.
Goodall, David A.: *See*—
Griffith, Robert C.; and Goodall, David A.,3,486,067.
Goodall, James, to Associated Electrical Industries Limited. Electrical terminal clamps. 3,447,119, 5-27-69, Cl. 339-112.
Goodchild, William C., Jr.; and Chesluk, John T., to United Shoe Machinery Corporation. Expandable fastener antenna mounts. 3,444,313, 5-13-69, Cl. 174-153.
Goode, Basil Wanless Kelley. Small arms ammunition belt. 3,429,220, 2-25-69, Cl. 89-33.
Goode, George H. Saw blade clamp. 3,451,292, 6-24-69, Cl. 76-78.
Goode, Godfrey P., to Sybron Corporation. Diathermy electrode supports. 3,457,925, 7-29-69, Cl. 128-405.
Goode, John W.: *See*—
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D.,3,460,746.
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D.,3,460,747.
Goode, Raymond A., to Dunbar Manufacturing Co., Inc. Automated corn popper feed. 3,450,539, 6-17-69, Cl. 99-81.
Goode, Robert W. Brake control for cable tensioning apparatus. 3,443,840, 5-13-69, Cl. 303-11.
Goode, Wilson R. Clutch release bearing clearance monitor device. 3,469,666, 9-30-69, Cl. 192-30.
Goodell, John D.; Ivins, Barbara; Wistrand, John C.; and Tasi, Vasil, to Minnesota Mining and Manufacturing Company. Magnetic tape magazine changer mechanism. 3,424,393, 1-28-69, Cl. 242-55.13
Goodell, John L. Vehicle speed warning device. 3,474,752, 10-28-69, Cl. 116-28.
Goodenough, Robert D.; and Kelly, James A., to Dow Chemical Company, The. Process for removing alkali metal sulfates from alkali metal hydroxide solution. 3,423,187, 1-21-69, Cl. 23-296.
Goodenough, Robert D.; Place, John; and Gunkler, Albert A., to Dow Chemical Company, The. Water treatment with polybromide resin packets. 3,436,345, 4-1-69, Cl. 210-62.
Goodenough, Robert D.: *See*—
Gaska, Remigius A.; and Goodenough, Robert D.,3,424,562.
Gaska, Remigius A.; and Goodenough, Robert D.,3,429,668.
Goodfellow, David Sydney; and Gilbertson, Ian David, to British Insulated Callender's Cables Limited. Wire-stranding machines. 3,468,115, 9-23-69, Cl. 57-52.
Goodfellow, Harry Edwin: *See*—
McIntyre, Matthew; Goodfellow, Harry Edwin; and Jaffe, Herbert Roy,3,468,186.
Goodhue, John B. Climbing apparatus adapted for installation on piers and the like. 3,480,107, 11-25-69, Cl. 182-97.
Goodhue, Lyle D., to Phillips Petroleum Company. Cadmium containing compounds as insect control agents. 3,478,152, 11-11-69, Cl. 424-287.
Goodhue, Lyle D.; and Reinert, Andrew J., to Phillips Petroleum Company. Process of using dihaloalkenes and dihaloalkynes as bird repellants. 3,474,177, 10-21-69, Cl. 424-351.
Goodhue, William M.; Osband, Sidney; and Sabath, Herman, to AMBAC Industries, Incorporated. Gyroscope pickoff-torquer system. 3,452,609, 7-1-69, Cl. 74-5.6
Gooding, Arnold, to Pullman Incorporated. Storage vessel. 3,460,659, 8-12-69, Cl. 193-3.
Gooding, Elwyn R.: *See*—
Schneider, Richard C.; and Gooding, Elwyn R.,3,462,763.
Gooding, Orville N. Cigar and cigarette extinguisher. 3,470,886, 10-7-69, Cl. 131-256.
Goodings, Eric Paul; and Allen, John Graham, to Imperial Chemical Industries Limited. Process for the manufacture of conducting polymers by treating polymeric compound containing basic groups with mixture of 7,7,8,8-tetracyano- quinodimethane and $\alpha,\alpha,\alpha',\alpha'$-tetracyano-p-xylene. 3,448,177, 6-3-69, Cl. 260-895.
Goodkind, John M.; and Prothero, William A. Force measuring instrument. 3,449,956, 6-17-69, Cl. 73-382.
Goodlander, Samuel W., to Baldwin, D. H., Company. Mounting string plates musical instruments. 3,437,000, 4-8-69, Cl. 84-188.
Goodloe, David K.; and Marshall, Jimmy W. Fire prevention, detection and extinguishing system. 3,486,562, 12-30-69, Cl. 169-11.
Goodman, Abraham H.; Pettinato, Edward F.; Kroll, Alfred; and Lipka, David H., to DCA Food Industries, Inc. Method of producing frozen comestibles. 3,475,182, 10-28-69, Cl. 99-136.
Goodman, Clark, to Schlumberger Technology Corporation. Well logging device using a pulsed source of monoenergetic neutrons. 3,461,291, 8-12-69, Cl. 250-83.6
Goodman, Daniel J. Hot stick. 3,473,837, 10-21-69, Cl. 294-19.
Goodman, Daniel Joseph. Automatic hot line breakaway clamp. 3,432,800, 3-11-69, Cl. 339-109.
Goodman, David M. Electron devices with planar electrodes, and means for terminating transmission lines with same. 3,457,515, 7-22-69, Cl. 325-445.
Goodman, Edward G. Chum dispenser. 3,459,247, 8-5-69, Cl. 146-192.
Goodman, Ernest A.; and Johnston, Richmond P., to Allis-Chalmers Manufacturing Company. Switch arrangement for changing transformer voltage ratio. 3,440,586, 4-22-69, Cl. 336-147.
Goodman, Ernest A.; Mutschler, William H., Jr.; and Anderson, John M., to Allis-Chalmers Manufacturing Company. Underground electrical distribution system. 3,443,113, 5-6-69, Cl. 307-17.
Goodman, Henry G., Jr.; and Dupraz, Carol A., to Union Carbide Corporation. Process for preparing of aliphatic monocarbamates. 3,449,406, 6-10-69, Cl. 260-482.
Goodman, Herman W. Rigidly mounted removable fixed bridge. 3,442,015, 5-6-69, Cl. 32-6.
Goodman, Isaac S., to Westinghouse Electric Corporation. Hermetic sealing of refractory metal tubing. 3,444,348, 5-13-69, Cl. 219-117.
Goodman, Isaac; and Hurworth, Neville Robert, to Imperial Chemical Industries Limited. Polyesteramides. 3,475,385, 10-28-69, Cl. 260-78.
Goodman, Jerome: *See*—
Krasnow, Philip I.; and Goodman, Jerome,3,468,710.
Goodman, John E.; and Grange, Arthur, to Ultrasonics Limited. Means for applying a sonic or ultrasonic transducer system to a surface to prevent deposition of materials thereon. 3,468,517, 9-23-69, Cl. 259-2.
Goodman, Joseph P. Orthopedic shoe. 3,463,165, 8-26-69, Cl. 128-583.
Goodman, Kenneth C. Cuer for slide or film strip projector. 3,457,005, 7-22-69, Cl. 352-17.
Goodman, Lawrence R.: *See*—
Marks, Ronald H.; Goodman, Lawrence R.; Stokes, Luther E.; and Millard, Roy H.,3,446,041.
Goodman, Leon: *See*—
Mosher, Carol W.; Acton, Edward M.; and Goodman, Leon,3,468,886.
Goodman, Maxwell W., to United States of America, Navy. Oxygen-isolation and overboard-dumping system. 3,467,094, 9-16-69, Cl. 128-204.
Goodman, Richard E.; Horning, Don O.; and Harlamoff, Anatol J., to University of California, The Regents of the. Device for testing rock in place. 3,446,062, 5-27-69, Cl. 73-84.
Goodman, Robert C.; and Boston, Robert L., to GAF Corporation. Thermographic developing apparatus. 3,449,547, 6-10-69, Cl. 219-216.
Goodman, Robert C.; and Mastroianni, Emilio G., to GAF Corporation. Photocopy developing apparatus. 3,435,751, 4-1-69, Cl. 95-94.
Goodman, Robert C.; and Sames, Delbert W., to GAF Corporation. Apparatus for selectively feeding and severing webs from a plurality of sources. 3,452,627, 7-1-69, Cl. 83-110.
Goodman, Robert C.; and Sames, Delbert W., to GAF Corporation. Photocopy apparatus having roll sheet material support means. 3,480,222, 11-25-69, Cl. 242-55.3
Goodman, Robert C.: *See*—
Strong, Erwin R., Jr.; Johnston, Walker F., Jr.; and Goodman, Robert C.,3,449,243.
Goodman, Robert M., Jr., to Scientific-Atlanta, Inc. Rotary joint. 3,426,309, 2-4-69, Cl. 339-8.
Goodman, Robert M., Jr., to Scientific-Atlanta, Inc. Rotray joint utilizing a fluid slip ring. 3,483,307, 12-9-69, Cl. 174-21.
Goodman, Robert M., to Franklin Institute, The. Subminiature digital recorder. 3,430,256, 2-25-69, Cl. 346-107.
Goodman, Robert. Foldable bed with adjustable contour bed spring. 3,456,269, 7-22-69, Cl. 5-66.
Goodman, Robert. Vertically adjustable table. 3,472,183, 10-14-69, Cl. 108-147.
Goodman, Ronald H.; Bettens, Arsene H.; and Josling, Clifford A., to Canadian Patents and Development Limited. Radioactive-source enclosure. 3,476,939, 11-4-69, Cl. 250-106.
Goodman, Sidney J.: *See*—
Schwarz, Julius; Dokes, George E.; Von Bradsky, Otokar; and Goodman, Sidney J.,3,479,780.
Goodman, Willard B., to Shell Oil Company. Method for forming end bearing concrete piles. 3,423,944, 1-28-69, Cl. 61-53.6
Goodman, Willard B., to Shell Oil Company. Pneumatic transformer coupling for sonic pile driver. 3,463,251, 8-26-69, Cl. 175-19.
Goodman, Willard B., to Shell Oil Company. Sonic earth cutting machine. 3,463,549, 8-26-69, Cl. 299-37.
Goodman, Willard B., to Shell Oil Company. Method and apparatus for forming end bearing piles. 3,479,829, 11-25-69, Cl. 61-53.6
Goodman, Willard B.: *See*—
Guild, Charles L.; and Goodman, Willard B.,3,446,293.

Goodman, William L. Swimming pool chlorine concentration controller using reference resistor in control circuit. 3,466,450, 9-9-69, Cl. 250-218.
Goodner, Homer W., to Monsanto Company. Tow can apparatus. 3,429,009, 2-25-69, Cl. 19-159.
Goodnow, Weston W.: *See—*
Myers, Felix E.; and Goodnow, Weston W.,3,487,343.
Goodrich, B. F., Company, The: *See—*
Anderson, John F., 3,442,731.
Anderson, Ralph F., 3,450,621.
Antlfinger, George J.; and von Kamp, Harold E., 3,444,122.
Antlfinger, George J.; and Bodzash, Maynard C., 3,486,930.
Barns, Fred K., 3,433,690.
Bergvall, Ardell J., 3,487,143.
Bushway, Kenneth C.; and Riselli, Nicholas V., 3,435,734.
Cardarelli, Nathan F.; and Caprette, Samuel J., Jr., 3,426,473.
Davis, Edward A., 3,483,287.
Dinbergs, Kornelius; and Yanko, John A., 3,475,390.
Donat, Frank J., 3,429,738.
Dreyfuss, Patricia M.; and Tucker, Harold A., 3,453,347.
Dreyfuss, Patricia M., 3,463,834.
Eden, Jamal S., 3,423,331.
Eden, Jamal S., 3,426,059.
Eden, Jamal S., 3,426,060.
Eden, Jamal S., 3,445,500.
Eden, Jamal S., 3,451,945.
Eden, Jamal S., 3,456,003.
Eden, Jamal S., 3,456,004.
Eden, Jamal S., 3,457,303.
Eden, Jamal S., 3,467,700.
Fisher, John M., 3,473,641.
Fisher, John M., 3,476,338.
Fisher, Leo, 3,486,967.
Frazer, Donald G., 3,487,057.
George, Paul J., 3,480,593.
Gilles, Jack C., 3,457,316.
Gilles, Jack C., 3,485,795.
Hallaman, Allan D., 3,464,743.
Hamed, Parviz; and McDonel, Everett T., 3,468,979.
Hasselquist, Victor H., 3,473,272.
Hasselquist, Victor H., 3,481,811.
Herzegh, Frank, 3,443,315.
Hoy, Kenneth A., 3,425,475.
Huber, Victor R.; and Cardenas, Armando, 3,476,168.
Huber, Victor R., 3,480,064.
Jorgensen, August H., Jr.; and Starmer, Philip H., 3,445,413.
Kelley, Philip C., 3,480,690.
Kroenke, William J., 3,428,603.
Kroenke, William J., 3,467,598.
Kuts, Mathew, 3,477,134.
May, Gerald L., 3,425,642.
McCarthy, William J., 3,465,058.
McKinstry, John R.; Monck, Myron C.; and Hayes, Robert L., 3,467,103.
Meadows, David F., 3,455,080.
Mehrbrodt, Alfonso W.; and Trivisonno, Nicholas M., 3,443,424.
Mikofalvy, Bela K., 3,457,209.
Minnerly, Harold E., Jr.; and Jorgensen, August H., Jr., 3,487,054.
Murphy, Walter T., 3,460,969.
Noll, Raymond F.; and McCarthy, William J., 3,449,301.
Orndorff, Roy L., Jr.; and Foulk, John M., 3,453,900.
Pannone, Lester, 3,423,263.
Park, John C., 3,480,599.
Popa, Lazar, Jr.; and Lydick, Howard K., 3,485,896.
Ruppel, Donald B.; and Reinhart, Norman E., 3,487,421.
Schlatzer, Robert K., 3,476,722.
Schneider, Wolfgang, 3,441,627.
Schneider, Wolfgang, 3,452,115.
Sidles, James; and Heimovics, John F., 3,421,566.
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard, 3,455,100.
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard, 3,486,546.
Sogal, Stephen, 3,445,506.
Spicer, Alvin W., 3,485,707.
Stewart, Floyd D., 3,463,758.
Stewart, Floyd D., 3,475,383.
Tritt, Paul G., 3,443,473.
Tucker, Harold A.; and Essig, Henry J., 3,445,403.
Vansickle, Robert H.; Linger, Oren R.; and Janshego, James A., 3,481,368.
Wagner, Frank A., 3,426,004.
Ziegler, Charles E.; and Eden, Jamal S., 3,451,946.
Ziegler, Charles E.; and Eden, Jamal S., 3,475,348.
Goodrich, Burton J. Flexible supported enclosure for outdoor area. 3,461,890, 8-19-69, Cl. 135-1.
Goodrich, George E.: *See—*
Cain, Earl S.; Carlson, Jerome A.; and Goodrich, George E.,3,466,697.
Goodrich, George W.; and Higgins, Paul T. Method for producing miniaturized perforated patterns. 3,486,868, 12-30-69, Cl. 65-23.
Goodrich, Hobert R.: *See—*
Bierlich, Knud Georg, 3,468,993.
Goodrich, Joseph A., to North American Rockwell Corporation. Two-piece injector. 3,474,971, 10-28-69, Cl. 239-558.
Goodrich, Roger S., to Raychem Corporation. Heat shrinkable cable clamp. 3,445,898, 5-27-69, Cl. 24-16.
Goodrich Welding Equipment Corporation: *See—*
Bende, Albert; Hiemenz, George G.; and Moore, Charles Dana, 3,465,117.
Goodrich-Gulf Chemicals, Incorporated: *See—*
Kehl, William L.; and Rennard, Raymond J., Jr., 3,450,787.
Kehl, William L.; and Rennard, Raymond J., Jr., 3,450,788.
Kehl, William L.; Rennard, Raymond J., Jr.; and Basila, Michael R., 3,450,789.
Minchak, Robert J., 3,449,312.
Goodridge, Lawrence C., to General Electric Company. Concealed front fastener for electrical power distribution panelboards. 3,480,344, 11-25-69, Cl. 312-242.
Goodridge, Lawrence C., to General Electric Company. Compact thermal expansion absorbing unit for electric power busways. 3,485,936, 12-23-69, Cl. 174-88.
Goodridge, Walter R., to Mr. Christmas, Inc. Support stand fixture. 3,477,671, 11-11-69, Cl. 248-44.
Goodridge, Walter R., to Mr. Christmas, Inc. Method for making artificial coniferous free branch. 3,478,652, 11-18-69, Cl. 93-1.5
Goodrum, Richard W., to Ethyl Corporation. Autoclave cleaning device. 3,448,474, 6-10-69, Cl. 15-56.
Goodrum, Richard W., to Ethyl Corporation. Rotatable coupling with passages. 3,462,176, 8-19-69, Cl. 285-136.
Goods, Edward G., to Buffalo Brake Beam Company. Railway car brake mechanism. 3,422,931, 1-21-69, Cl. 188-59.
Goodson, Kenneth W. Lifting-jet-body aircraft configuration. 3,454,238, 7-8-69, Cl. 244-12.
Goodson, Robert M.: *See—*
Panzer, Jerome; Longosz, Edward J.; Staffin, Gerald D.; and Goodson, Robert M.,3,446,737.
Goodspeed, Morley James: *See—*
Mortley, Harold Redvers; Chapman, Thomas Grandin; Goodspeed, Morley James; and Savage, John Vivian,3,467,305.
Goodstein, David L., to California Institute Research Foundation. Helium film refrigerator. 3,447,333, 6-3-69, Cl. 62-45.
Goodwald, Herman R., to Dow Chemical Company, The. Method of bleaching kraft pulp sheet. 3,455,777, 7-15-69, Cl. 162-78.
Goodwald, Herman R.; and Schechter, Dale L., to Dow Chemical Company, The. Process of bleaching a sheet of groundwood pulp. 3,423,283, 1-21-69, Cl. 162-71.
Goodwald, Herman R.; and Schechter, Dale L., to Dow Chemical Company, The. Method of bleaching groundwood pulp web with acid. 3,436,302, 4-1-69, Cl. 162-71.
Goodwill Industries of Western Connecticut, Inc.: *See—*
Rogers, George W., 3,441,285.
Goodwin, Alfred S., to Baird and Tatlock (London) Limited. Liquid heating and circulating unit. 3,428,781, 2-18-69, Cl. 219-331.
Goodwin, Arthur F., to General Electric Company. Pulse counter and burst limiter. 3,456,554, 7-22-69, Cl. 89-135.
Goodwin, Clarence J.: *See—*
Danz, Ellworth R.; and Goodwin, Clarence J.,3,430,906.
Goodwin, Clarence J., to General Time Corporation. Instrument case construction. 3,430,498, 3-4-69, Cl. 73-431.
Preiser, Ralph H.; Goodwin, Clarence J.; Emerson, Frank W.; and Metcalf, Stanley,3,460,388.
Goodwin, David E.: *See—*
McNulty, Joseph V.; and Goodwin, David E.,3,450,892.
Goodwin, Donald K.: *See—*
Panek, Julian R.; and Goodwin, Donald K.,3,466,258.
Goodwin, Edwin C., Jr., to Allis-Chalmers Manufacturing Company. Balanced latch mechanism. 3,457,531, 7-22-69, Cl. 335-168.
Goodwin, Elmer C., Jr., to Spaulding Fibre Company, Inc. Roving can. 3,437,232, 4-8-69, Cl. 220-93.
Goodwin, Francis E., to Hughes Aircraft Company. Tuned stable laser in a communication system. 3,482,099, 12-2-69, Cl. 250-199.
Goodwin, Max E.: *See—*
Heidner, Richard C.; and Goodwin, Max E.,3,453,812.
Goodwin, Perry H., Jr.: *See—*
Crafts, Cecil A.; and Goodwin, Perry H., Jr.,3,474,341.
Goodwin, Ralph C., to Bemis Company, Inc. Methods of making bags. 3,431,829, 3-11-69, Cl. 93-35.
Goodwin, Ralph C.: *See—*
Snabb, Avron A.; and Goodwin, Ralph C.,3,456,868.
Goodwin, Raymond Wendell; and Cuccia, John F., to United Aircraft Corporation. Strapdown gyroscope system. 3,438,268, 4-15-69, Cl. 74-5.
Goodwin, Raymond Wendell; and Greenspan, Marshall, to United Aircraft Corporation. System for aligning remote lines of position. 3,470,429, 9-30-69, Cl. 318-18.

Goodwin, Richard R., to United States of America, Army. Free piston and cylinder assembly for hydraulic pumps and motors. 3,434,429, 3-25-69, Cl. 103-162.
Goodwin, Robert F.: *See*—
Johnson, John R.; and Goodwin, Robert F.,3,430,893.
Goodwin, Robert J.; Mori, Ernest A.; Pekarek, Joseph L.; Schaub, Paul W.; and Zinkham, Robert E., to Gulf Research & Development Company. Drill bit for hydraulic jet drilling of wells. 3,467,211, 9-16-69, Cl. 175-422.
Goodwin, Robert J.; and Pekarek, Joseph L., to Gulf Research & Development Company. Hydraulic drilling bit and nozzle. 3,469,642, 9-30-69, Cl. 175-393.
Goodwin, Roy D.: *See*—
Suskind, Stuart P.; and Goodwin, Roy D.,3,458,387.
Goodwin, Warren. Variable torque arm. 3,432,158, 3-11-69, Cl. 267-57.
Goodwine, James K., Jr., to Chevron Research Company. Method of operation and lubricant for closed emission internal combustion engines. 3,426,738, 2-11-69, Cl. 123-119.
Goodwyn, John W. Rotary fluid apparatus. 3,437,009, 4-8-69, Cl. 91-70.
Goodwyn, John W., 50% to Hetzler, Fred. Bearing assembly for railroad car center plate. 3,466,102, 9-9-69, Cl. 308-137.
Goodyear Aerospace Corporation: *See*—
Altekruse, John L.; Buxton, Albert C.; Hancock, Robert O.; and Miller, James H., 3,421,716.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., 3,425,046.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., 3,430,216.
Apicella, Anthony M., Jr.; and Franks, John T., Jr., 3,465,310.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., 3,465,318.
Apicella, Anthony M., Jr.; and Franks, John T., Jr., 3,466,639.
Batcher, Kenneth E., 3,428,946.
Bell, James C., 3,481,569.
Bell, James C.; and Jarvis, James K., 3,484,788.
Buynak, George R.; and Paxton, Roy K., 3,459,392.
Charpentier, Jean F., 3,468,216.
Evans, Donald C.; and Steiner, Wilford L., 3,472,469.
Faiss, Rudolf O., 3,486,016.
Fenn, Warren T.; Schott, Eugene A.; and Tschudy, Donald B., 3,448,864.
Fisher, Richard R.; Kifor, Harry T.; and Tschudy, Donald B., 3,442,996.
Flickinger, Maynard L.; and Ross, Robert S., 3,432,122.
Hobart, Paul W.; and Schopp, Lloyd W., 3,453,959.
Hogan, James J., 3,483,421.
Horvath, Robert M., 3,425,045.
Hunt, Tyler R., 3,432,836.
Kifor, Harry T.; Sprick, Walter F.; Musser, Lester W.; and Levesque, Charles R., 3,430,533.
Loughridge, Raymond H.; and Trybus, Conrad, 3,432,218.
Madigan, Basil, 3,454,800.
Nebiker, Fred R.; Aebischer, Albert C.; and Knight, Richard E., 3,482,783.
Penix, Ermal E.; and Pfeiffer, Harry O., 3,476,197.
Steiner, Wilford L., 3,424,937.
Steiner, Wilford L., 3,430,092.
Goodyear Tire & Rubber Company , The: *See*—
Brinkley, Max D.; and Griffiths, Robert I., 3,467,063.
Goodyear Tire & Rubber Company, The: *See*—
Barrington, Charles E., 3,438,464.
Bauer, Richard G.; Bletso, Nelson C.; Mast, William C.; and Pierson, Robert M., 3,475,516.
Boyer, Ralph K., 3,479,868.
Bricker, Carl E., 3,432,009.
Brownsword, John E., 3,446,781.
Buckland, Paul S., 3,462,328.
Burr, Warren W., 3,487,134.
Bush, Charles F., 3,438,827.
Caillet, Eugene; and Fishbaugh, Byron L., 3,465,963.
Calderon, Nissim, 3,422,034.
Calderon, Nissim, 3,439,056.
Calderon, Nissim, 3,439,057.
Carr, Vernon R., 3,445,972.
Carter, Russell P., Jr., 3,487,126.
Dengler, Daniel D., 3,422,885.
Duvall, William C.; Ludwick, William R.; and Brion, Albert E., Jr., 3,432,609.
Fauser, Ernest E., 3,487,055.
Finelli, Anthony F.; and Suter, Charles A., 3,446,779.
Fishbaugh, Byron L., 3,480,268.
Frayer, Theodore, 3,443,594.
Frayer, Theodore, 3,486,801.
Frech, Kenneth J., 3,480,687.
Frech, Kenneth J.; and Anhorn, Victor J., 3,480,688.
Gallagher, William C., 3,421,958.
Gallagher, William C., 3,486,962.
George, Everett D., 3,487,141.
Gore, Philip W.; and Jones, Lawrence R., 3,467,412.
Greenwood, Alan; and Hale, Jack T., 3,486,195.
Gursky, Ladislav A.; Suter, Charles A.; and Robinson, Keith D., 3,453,164.
Hacker, Arden R.; and Kraft, Louis Seelbach, 3,486,607.
Hawkes, Joseph S.; and D'Avello, Faust S., 3,421,535.
Hawkes, Joseph S., 3,422,836.
Hillegass, Kenneth P., 3,432,007.
Hillegass, Kenneth P.; and Gowins, John F., 3,438,472.
Hillegass, Kenneth P., 3,486,589.
Hillhouse, Mial T., 3,480,062.
Hoskinson, John D.; and York, Monte H., 3,446,694.
Hoverman, William, Jr., 3,474,586.
Kell, Ralph W., 3,480,339.
Kempton, William E., 3,439,060.
Kersker, Theodore M.; and Kovac, Frederick J., 3,431,962.
Kline, Crandall R., Jr., 3,452,800.
Kraft, Louis Seelbach; and Freitag, Paul W., Jr., 3,422,947.
Lewis, Kenneth R., by; and Lewis, Donald A.; guardian of said Lewis Kenneth R., incompetent, 3,486,198.
Lewis, Richard J., 3,486,798.
Lovell, John A., 3,487,115.
Manning, Loran E., 3,446,247.
Menapace, Henry R.; Maly, Neil A.; Benner, Gereld S.; and Hillegass, Donald V., 3,446,861.
Menapace, Henry R.; and Maly, Neil A., 3,446,862.
Miller, William P., II, 3,458,895.
Nahodil, Robert S.; and Correll, Harold E., 3,422,705.
Okuzumi, Yuzi, 3,446,763.
Okuzumi, Yuzi, 3,487,041.
Pengilly, Brian W., 3,427,287.
Pierce, Warren K., 3,440,223.
Piirma, Aleksander, 3,428,587.
Plaster, Bernard J.; and Stein, Richard J., 3,453,240.
Reilly, Patrick J., 3,439,063.
Rosca, George E., 3,446,447.
Ruof, Edgar J., 3,454,925.
Ruof, Edgar J., 3,473,120.
Sawaya, Albert R., 3,431,281.
Scheibelhoffer, Anthony S., 3,463,748.
Schoenberg, Emanuel, 3,462,405.
Semonin, Emmet V., 3,467,159.
Smith, Geoffrey H.; and Saltman, William M., 3,466,140.
Spacht, Ronald B., 3,428,691.
Spacht, Ronald B., 3,432,460.
Spacht, Ronald B., 3,468,845.
Stachowiak, Robert W., Sr.; and Campbell, Everett W., 3,484,426.
Stefan, Frank N.; and Harkins, James L., 3,458,056.
Stefan, Frank N.; and Gannett, Chauncey W., 3,458,057.
Taylor, Arkle D., 3,467,641.
Tazuma, James J.; and Zadra, Mario D., 3,432,572.
Tazuma, James J., 3,466,343.
Throckmorton, Morford C., 3,438,958.
Throckmorton, Morford C.; and Saltman, William M., 3,446,787.
Throckmorton, Morford C.; and Saltman, William M., 3,446,788.
Throckmorton, Morford C.; and Saltman, William M., 3,483,177.
Throckmorton, Morford C.; and Gordon, Carl E., 3,487,063.
Waller, Richard C.; and Keck, Max H., 3,446,778.
Watters, Larry H., 3,475,217.
Widmer, Hans, 3,475,251.
Wiener, Maria V., 3,421,974.
Wiener, Maria V., 3,423,280.
Wiener, Maria V., 3,423,281.
Wiener, Maria V., 3,446,758.
Wiener, Maria V., 3,462,395.
Wiener, Maria V., 3,466,348.
Woodhall, Edwin S., 3,467,567.
York, Monte H., 3,423,503.
Goodykoontz, James R., to TRW Inc. Fluidic numeric readout device. 3,480,208, 11-15-69, Cl. 235-201.
Goon, Edward J., to National Research Corporation. Tantalum nitride powder and method for its preparation. 3,427,132, 2-11-69, Cl. 23-204.
Goonan, Harry J., to Western Union Telegraph Company, The. Waveguide section sliding wall carrying detector probe. 3,422,350, 1-14-69, Cl. 324-95.
Goonewardene, Hilary F., to Smith Kline & French Laboratories. Diphenylalkylamines as a hematocide. 3,471,612, 10-7-69, Cl. 424-43.
Goonewardene, Hilary F.; and Loev, Bernard, to Smith Kline & French Laboratories. Compositions and methods for regulating the growth of plants. 3,455,673, 7-15-69, Cl. 71-76.
Goordman, Robert V., to Bell Telephone Laboratories, Incorporated. Ultralinear transistor amplifier. 3,435,364, 3-25-69, Cl. 330-24.
Goordman, Robert V., to Bell Telephone Laboratories, Incorporated. Gated differential amplifier. 3,454,893, 7-8-69, Cl. 330-30.

Goors Porcelain Company: *See*—
Hartmeister, Ruben J.; and Pennington, Norman G., 3,452,709.
Goos, Hanno, to West Virginia Pulp and Paper Company. Process for the continuous production of starch degradation products. 3,423,239, 1-21-69, Cl. 127-38.
Goosey, Malcolm H.; and Brady, Edward R., to United States of America, Atomic Energy Commission. Analog-to-digital converter. 3,469,254, 9-23-69, Cl. 340-347.
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C., to United States of America, Atomic Energy Commission. High speed temperature monitor. 3,459,925, 8-5-69, Cl. 235-151.
Goosmann, Theo, to Olympia Werke AG. Releasable connection. 3,485,112, 12-23-69, Cl. 74-579.
Goossens, Gunter, to Inventa A.G., fur Forschung und Patentverwertung. Rotary drum reactor. 3,443,909, 5-13-69, Cl. 23-286.
Goossens, John C., to General Electric Company. Organosilicon materials and method for making them. 3,462,386, 8-19-69, Cl. 260-37.
Goossens, Walter: *See*—
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,669.
Goostrey, Roy: *See*—
Hargreaves, Derek B.; Staniforth, Eric; and Goostrey, Roy,3,447,391.
Gootschalk, Heinrich Georg, to Schmidt, Karl Heinz. Wheel suspension for vehicles. 3,477,733, 11-11-69, Cl. 280-6.
Gopher Grinders, Inc.: *See*—
Simmons, Haryl C.; and Hanson, Douglas R., 3,425,170.
Goplen, Francis A.; McCullough, John W.; and Thomas Richard H., to International Business Machines Corporation. Noise suppressor for servosystem. 3,466,516, 9-9-69, Cl. 318-18.
Goppel, Johan M., to Shell Oil Company. Production of staple fibers. 3,470,595, 10-7-69, Cl. 28-72.
Goppelt, Horst: *See*—
Wittrowsky, Gunter; and Goppelt, Horst,3,472,558.
Gopstein, Herbert. Chlorine dispensing device. 3,483,989, 12-16-69, Cl. 210-242.
Gora, Vladimir Epifanovich: *See*—
Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich,3,459,311.
Goralski, Leonard S.: *See*—
Callaway, Vernon E.; and Goralski, Leonard S.,3,439,774.
Gorand, Alfred J.; and Di Giacomo, Angelo A., to Sun Oil Company. Apparatus for pyrolysis of solids. 3,449,211, 6-10-69, Cl. 196-120.
Goranson, Charles D.; and Hennigan, Edward A. Golf ball including stance diagram. 3,420,529, 1-7-69, Cl. 273-213.
Goranson, Richard B.; and Martini, William R., to McDonnell Douglas Corporation. Pulsatile heart pump. 3,478,695, 11-18-69, Cl. 103-152.
Gorbach, Siegbert: *See*—
Ehrenberger, Friedrich; Gorbach, Siegbert; and Hommel, Karl,3,428,433.
Gorbatenko, George G.: *See*—
Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H.,3,480,795.
Gorbatenko, George G.; Jursik, James; Kimmel, Milton J.; Razi, Syed; and Wilson, Norman D., to International Business Machines Corporation. Sequentially gated successive approximation analog to digital converter. 3,460,131, 8-5-69, Cl. 340-347.
Gorbunov, Vladimir Ivanovich: *See*—
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Gorby, Jack. Food canning machine. 3,476,037, 11-4-69, Cl. 100-223.
Gorezyca, Frank: *See*—
Gustison, Robert A.; Gorezyca, Frank; and Cenerazzo, John A.,3,447,894.
Gordinier, Ralph E., to Eco Pump Corporation. Fluid pump. 3,463,090, 8-26-69, Cl. 103-130.
Gordon, Alan M.; and Thommen, Werner, to Bell Telephone Laboratories, Incorporated. Video blanking and sync pulse insertion circuit. 3,487,162, 12-30-69, Cl. 178-7.1
Gordon, Alex F., to United Merchants and Manufacturers, Inc. Method of producing press-free garments and products thereof. 3,458,869, 8-5-69, Cl. 2-243.
Gordon, Alfred J., to Great Lakes Aluminum Fabricators, Inc. Invisible hinge. 3,477,091, 11-11-69, Cl. 16-180.
Gordon, Bennett E., Jr., to Jamesbury Corporation. Seat ring for ball valves. 3,486,733, 12-30-69, Cl. 251-172.
Gordon, Carl E.: *See*—
Throckmorton, Morford C.; and Gordon, Carl E.,3,487,063.
Gordon, Charles R.: *See*—
Dietz, Thomas R.; and Gordon, Charles R.,3,436,331.
Gordon, Colin G.: *See*—
Jones, Royal V., Jr.; Allen Clayton H.; and Gordon, Colin G.,3,480,283.
Gordon, Daniel I.: *See*—
Sery, Robert S.; and Gordon, Daniel I.,3,477,883.
Gordon, David J., to Dow Corning Corporation. Chromatographic separation method. 3,464,183, 9-2-69, Cl. 55-67.
Gordon, David: *See*—
Bennett, Jack Plymette; Gordon, David; and Kutcher, Myron Martin,3,471,778.
Gordon, David; and Hall, Henry Warburton. Manufacture of mouldings from acrylonitrile copolymers. 3,431,159, 3-4-69, Cl. 156-180.
Gordon, Earl F.: *See*—
Larson, Kenneth E.; and Gordon, Earl F.,3,470,575.
Gordon, Edward: *See*—
Woodard, Toma A.; Davis, John R.; and Gordon, Edward,3,486,011.
Gordon, Elizabeth G., executrix of the estate of said Gordon, Travis C.: *See*—
Gordon, Travis C.; and Gordon, Elizabeth G., executrix of the estate of said Gordon, Travis C., deceased,3,428,147.
Gordon, Emanuel: *See*—
Fuhrman, Nathan; Gordon, Emanuel; and Holden, Robert B.,3,429,699.
Gordon, Ernest S.; Schwab, Ronald B.; and Thunberg, Leander O., to IIT Research Institute. Controlled infusion system. 3,425,415, 2-4-69, Cl. 128-214.
Gordon, Eugene I.: *See*—
Crowell, Merton H.; and Gordon, Eugene I.,3,440,476.
Crowell, Merton H.; and Gordon, Eugene I.,3,440,477.
Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Light beam controlling system. 3,435,228, 3-25-69, Cl. 250-199.
Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Acoustic light modulator and variable delay device. 3,462,603, 8-19-69, Cl. 250-199.
Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Gunn-effect light modulator. 3,475,078, 10-28-69, Cl. 350-160.
Gordon, Fred G.; and Hermstad, Norman H., to Time & Motion Dentistry Corporation of America. Dental unit. 3,427,719, 2-18-69, Cl. 32-22.
Gordon, George F., to Dennison Manufacturing Company. Apparatus for stretching plastic filaments. 3,457,589, 7-29-69, Cl. 18-1.
Gordon, Gerome; and Barth, George J., Jr. Atmospheric seals. 3,438,617, 4-15-69, Cl. 263-40.
Gordon, Glenn A., Jr. Sealable commode. 3,444,563, 5-20-69, Cl. 4-142.
Gordon, Irving: *See*—
Baranauckas, Charles F.; and Gordon, Irving,3,434,981.
Baranauckas, Charles F.; and Gordon, Irving,3,437,721.
Baranauckas, Charles F.; and Gordon, Irving,3,484,506.
Frank, Arlen W.; and Gordon, Irving,3,459,795.
Gordon, Irving; Hodan, James J.; and Dever, James L., to Hooker Chemical Corporation. Process for preparing bisphosphite esters of alkylidene diphenol. 3,448,179, 6-3-69, Cl. 260-976.
Gordon, Jerry D. Tumbling device including plural coating- source means. 3,469,561, 9-30-69, Cl. 118-16.
Gordon, Jerry D. Cooking oil cleaner. 3,483,981, 12-16-69, Cl. 210-167.
Gordon, Kenneth: *See*—
Siddons, John Royston; and Gordon, Kenneth,3,480,089.
Gordon, Lesley K. Combined bathing apparatus, commode, etc., for convalescent patients and the like. 3,447,166, 6-3-69, Cl. 4-1.
Gordon, Mack: *See*—
Hanneman, Robert Gorden; Gordon, Mack; and Gregor, Harry,3,427,978.
Gordon, Manuel J.; and Ogle, David G., to Beckman Instruments, Inc. Electrokinetic demonstration cell construction. 3,474,024, 10-21-69, Cl. 204-299.
Gordon, Marvin, to Garrett Laboratories, Inc. Aerosol composition containing butoxymonether of a polyoxyalkylene glycol. 3,456,052, 7-15-69, Cl. 424-45.
Gordon, Mason L., to Ablestik Adhesive Company. Tube-folding arrangemet. 3,446,168, 5-27-69, Cl. 113-54.
Gordon, Mason L., to Ablestik Adhesive Company. Honing and peening arrangement. 3,484,995, 12-23-69, Cl. 51-8.
Gordon, Norman. Adjustable mirror. 3,421,728, 1-14-69, Cl. 248-477.
Gordon, Paul C.: *See*—
Scarnato, Thomas J.; Gordon, Paul C.; and Morkoski, James,3,471,167.
Gordon, Robert G.; and Tweddell, James C., to Matthews, Jas. H., & Co. Flower vase and holder. 3,434,235, 3-25-69, Cl. 47-41.1

Gordon, Rodney W. Liquid-propellent guns and related devices. 3,422,723, 121-69, Cl. 89-8.
Gordon, Samuel J. Nonsymmetric shroud-propeller combination for directional control. 3,455,268, 7-15-69, Cl. 114-166.
Gordon, Sherritt, Mines Limited: *See*—
Veltman, Herbert; O'Kane, Patrick T.; Gulyas, James W.; and Middagh, William R., 3,477,927.
Gordon, Stuart; Mowate, Arthur Jack; Morris, James Paul; and Cunliffe, Alwyn, to Imperial Metal Industries (Kynoch) Limited. Top casting under pressure of rocket motor propellants. 3,470,273, 9-30-69, Cl. 264-3.
Gordon, Theodore J.: *See*—
Goldschmidt, Hans; Gordon, Theodore J.; and Helmer, Olaf,3,473,802.
Gordon, Thomas J., to Transport Engineering, Inc. Wheel assembly. 3,425,760, 2-4-69, Cl. 308-207.
Gordon, Thomas J., to Transport Engineering, Inc. Wheel assembly. 3,436,134, 4-1-69, Cl. 308-190.
Gordon, Thomas T.; and Himmel, Rene K., to National Cash Register Company, The. Pressure-sensitive capsule-containing foraminated sheet material. 3,472,675, 10-14-69, Cl. 117-36.9
Gordon, Travis C.; and Gordon, Elizabeth G., executrix of the estate of said Gordon, Travis C., deceased. Ladder extensions. 3,428,147, 2-18-69, Cl. 182-204.
Gordon, William D.; and Norman, Robert S., to General Electric Company. Sheathed conductor with hermetic seal. 3,451,861, 6-24-69, Cl. 136-230.
Gordon, William D.; and Warburton, Joe A., to General Electric Company. Resistance temperature detector. 3,441,893, 4-29-69, Cl. 338-26.
Gordon, William F., to Windings, Inc. Winding flexible material. 3,486,714, 12-30-69, Cl. 242-163.
Gordon, William, to Pyronetics, Inc. Normally-closed explosive-operated valve. 3,474,809, 10-28-69, Cl. 137-70.
Gordy, John. Synthetic gemstones. 3,431,125, 3-4-69, Cl. 106-42.
Gore, Ernest M.: *See*—
Tysver, Oliver J.; Keinanen, Henry J.; and Gore, Ernest M.,3,462,015.
Gore, John J. Litter bag and support member. 3,426,958, 2-11-69, Cl. 229-53.
Gore, Philip W.; and Jones, Lawrence R., to Goodyear Tire & Rubber Company, The. Hose splice. 3,467,412, 9-16-69, Cl. 285-293.
Gore, William C.; and Shapiro, Eugene B., to Chicago Specialty Manufacturing Co. Shower head. 3,485,451, 12-23-69, Cl. 239-383.
Goreckl, Charles E., to Heplon Inc. Apparatus for stretching and crimping fibers. 3,422,492, 1-21-69, Cl. 18-1.
Goren, Avigdor: *See*—
Wiesler, Mordechai; and Goren, Avigdor,3,446,065.
Gorenshtein, Ilya Vladimirovich: *See*—
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Jakov Benediktovich,3,447,332.
Gorey, Edward F.: *See*—
Gardner, Edward E.; Gorey, Edward F.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing,3,487,301.
Gorge, Werner; and Moser, Alois, to Maschinenfabrik Augsburg-Nurnberg AG. Spring support for truck bodies. 3,448,993, 6-10-69, Cl. 280-124.
Gorgenyi, Geza E., to Hughes Aircraft Company. Method of forming metal contacts on electrical components. 3,462,349, 8-19-69, Cl. 204-15.
Gorgone, Saverino S. Slidable support for window coverings. 3,434,685, 3-25-69, Cl. 248-263.
Gorham, Harold F., to Gorham Universal Manufacturing Company, Inc. Locomotor and rail apparatus therefor. 3,447,481, 6-3-69, Cl. 104-120.
Gorham, Robert H. Harvester with overlapping disc cutters. 3,455,094, 7-15-69, Cl. 56-503.
Gorham Universal Manufacturing Company, Inc.: *See*—
Gorham, Harold F., 3,447,481.
Gorike, Rudolf, to Akustische u Kino-Gerate Gesellschaft m.b.H. Resilient mounting for tubular microphone. 3,436,495, 4-1-69, Cl. 179-146.
Gorike, Rudolf, to Akustische u Kino-Gerate Gesellschaft m.b.H. Sound pickup. 3,483,324, 12-9-69, Cl. 179-1.
Gorike, Rudolf: *See*—
Pless, Ernst; and Gorike, Rudolf,3,436,482.
Gorin, Chanuch: *See*—
Mitzmager, Abraham; and Gorin, Chanuch,3,480,143.
Gorin, Evgeny Leontievich: *See*—
Levishko, Anatoly Alexandrovich; Kaljunov, Gennady Alexandrovich; and Gorin, Evgeny Leontievich,3,467,322.
Gorin, Manuel H.: *See*—
Rosenstein, Ludwig; and Gorin, Manuel H.,3,446,711.
Gorin, N., & Sons, Inc.: *See*—
Gorin, Nathan; Gorin, Raymond; and Gorin, Saul, 3,429,275.
Gorin, Nathan; Gorin, Raymond; and Gorin, Saul, to Gorin, N., & Sons, Inc. Interlock sewing machines. 3,429,275, 2-25-69, Cl. 112-168.
Gorin, Philip Albert James: *See*—
Spencer, John Francis Theodore; Tulloch, Alexander Patrick; and Gorin, Philip Albert James,3,445,337.
Gorin, Pierre Marcel Gaston. Method of and apparatus for filling cases with fruit which can be floated. 3,470,670, 10-7-69, Cl. 53-35.
Gorin, Raymond: *See*—
Gorin, Nathan; Gorin, Raymond; and Gorin, Saul,3,429,275.
Gorin, Saul: *See*—
Gorin, Nathan; Gorin, Raymond; and Gorin, Saul,3,429,275.
Goring, Maurice T.: *See*—
Ballantyne, David B.; and Goring, Maurice T.,3,433,119.
Gorka, Edward R.: *See*—
Austin, Arthur C.; Gorka, Edward R.; and Kaleta, Norbert W.,3,480,104.
Gorke, Klaus; and Heidel, Klaus, to Chemische Werke Huls Aktiengesellschaft. Quick-drying oil-modified alkyd resin compositions. 3,457,207, 7-22-69, Cl. 260-22.
Gorke, Klaus; Hilpert, Richard; Schleimer, Bernhard; and Dittmann, Walter, to Chemische Werke Huls Aktiengesellschaft. Coating compositions comprising cis-1,4-poly- butadiene and natural drying oil. 3,442,675, 5-6-69, Cl. 106-227.
Gorlin, Sidney. Automatic watering device for plants and the like. 3,438,383, 4-15-69, Cl. 137-78.
Gorman, Christopher B., to Ransome Torch & Burner Co. Gas burner construction. 3,437,414, 4-8-69, Cl. 431-79.
Gorman, Harry. Foldable recording. 3,469,849, 9-30-69, Cl. 274-42.
Gorman, Harry; and Fohrman, Seymour. Container with sound recording. 3,463,303, 8-26-69, Cl. 206-47.
Gorman, Jeremy W.; and Toback, Alex S., to Loctite Corporation. Polyurethane polyacrylate sealant compositions. 3,425,988, 2-4-69, Cl. 260-47.
Gorman, John Joseph, to Du Pont de Nemours, E. I., and Company. Pressure-sensitive chloroprene polymer adhesives. 3,479,311, 11-18-69, Cl. 260-29.3
Gorman, Kenneth P. Toroidal core winding head. 3,459,384, 8-5-69, Cl. 242-4.
Gorman, Marvin; Haney, Michael E., Jr.; Lively, David H.; and Davenport, James D., to Lilly, Eli, and Company. Process for pyrrolnitrin production. 3,476,648, 11-4-69, Cl. 195-96.
Gorman, Marvin; and Kornfeld, Edmund C., to Lilly, Eli, and Company. Indolyl vindolines. 3,422,112, 1-14-69, Cl. 260-287.
Gorman, Marvin; and Morin, Robert B., to Eli Lilly, and Company. 0-mycaminosyl tylonolide and a process for the preparation thereof. 3,459,853, 8-5-69, Cl. 424-121.
Gorman, Paul T.; and Small, Augustus B., to Esso Research and Engineering Company. Method of installing a sealing means in a cryogenic tanker construction. 3,457,622, 7-29-69, Cl. 29-405.
Gorman-Rupp Company, The: *See*—
Porter, Robert J., 3,447,810.
Smith, Edward M., 3,443,060.
Gormley, Joseph, to Honeywell Inc. Monitoring device. 3,439,228, 4-15-69, Cl. 317-148.5
Goro, Societe Anonyme: *See*—
Schick, Jules, 3,458,099.
Gorodetsky, Igor Yakovlevich. Rectifier having sieve rim and tapered disc distributing means. 3,464,893, 9-2-69, Cl. 202-158.
Gorog, Etienne P., to International Business Machines Corporation. Frequency code concept alphabet synthesizing. 3,478,350, 11-11-69, Cl. 340-351.
Gorrafa, Adly Abdel-Moniem, to Du Pont de Nemours, E. I., and Company. Tow combing process. 3,421,185, 1-14-69, Cl. 19-65.
Gorrafa, Adly Abdel-Moniem, to Du Pont de Nemours, E. I., and Company. Tow slicing apparatus. 3,478,392, 11-18-69, Cl. 19-0.62
Gorsich, Richard D., to Ethyl Corporation. Vinylic Grignard reagent composition. 3,431,212, 3-4-69, Cl. 252-182.
Gorsich, Richard D., to Ethyl Corporation. Aryl Grignard reagent composition. 3,431,213, 3-4-69, Cl. 252-182.
Gorsich, Richard D., to Ethyl Corporation. Production of organolead compounds. 3,444,223, 5-13-69, Cl. 260-437.
Gorski, Alexander A., to United States of America, Army, mesne. Monostable wide range multivibrator. 3,428,902, 2-18-69, Cl. 328-58.
Gorski, Florian T., to Owens-Corning Fiberglas Corporation. Structural panel and method of production. 3,437,508, 4-8-69, Cl. 117-54.
Gorski, Henry J.: *See*—
Peters, Robert W.; and Luber, Fredrick G., 3,432,707.
Peters, Robert W., 3,467,324.
Peters, Robert W., 3,484,923.
Gorski, Robert A.: *See*—
Bauer, Albert W.; and Gorski, Robert A.,3,431,211.
Bauer, Albert W.; and Gorski, Robert A.,3,477,952.
Gorsky, Egon: *See*—
Cardel, Robert; and Gorsky, Egon,3,456,383.
Gardel, Robert; and Gorsky, Egon,3,421,258.
Gardel, Robert; and Gorsky, Egon,3,455,052.

Gardel, Robert; and Gorsky, Egon,3,456,384.
Gardel, Robert; and Gorsky, Egon,3,465,474.
Gardel, Robert; and Gorsky, Egon,3,468,056.
Gardel, Robert; and Gorsky, Egon,3,477,169.
Gardel, Robert; and Gorsky, Egon,3,487,346.
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S.,3,429,068.

Gorton, Bert Sorelle, to Du Pont de Nemours, E. I., and Company. Polyamide-polyepoxide cross-linked reaction product adhesive composition and method of uniting metal surfaces using same. 3,462,337, 8-19-69, Cl. 156-330.

Gorton Corporation, The: *See*—
Chase, Robert M., 3,485,125.

Gorton, Howard B.; and Arias, Henry, Jr., to Ajax Hardware Manufacturing Corp. Latching hinge. 3,432,879, 3-18-69, Cl. 16-145.

Gorton Machine Corporation: *See*—
Engstrom, Donald F., 3,481,248.

Gorum, Foster O., to Monsanto Company. Warper reed assembly. 3,457,612, 7-29-69, Cl. 28-54.

Gorynina, Zoya Alexandrovna: *See*—
Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Volokhonsky, Lev Avramovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Scherbakov, Konstantin Alexandrovich; and Katsevich, Leonid Savich,3,483,917.

Gorzegno, Walter P.; and Zipay, Albert J., to Foster Wheeler Corporation. Vapor generator. 3,472,208, 10-14-69, Cl. 122-406.

Gosche, Volker, to Schumag Schumacher Metallwerke Gesellschaft mit beschrankter Haftung. Apparatus for statically balancing machines for driving rotary components. 3,468,189, 9-23-69, Cl. 74-573.

Goser, Karl; and Kadereit, Hans-Gunther, to Siemens Aktiengesellschaft. Associative superconductive layer storer. 3,460,102, 8-5-69, Cl. 340-173.1

Gosha, Charles E. Compressor. 3,478,956, 11-18-69, Cl. 230-185.

Goshgarian, Haig, to Radio Corporation of America. Monolithic integrated circuits with a plurality of isolation zones. 3,430,110, 2-25-69, Cl. 317-234.

Goshi Kaisha Mizuno Kogeisha: *See*—
Mizuno, Akira, 3,434,575.

Goshima, Kazuaki; and Tokuyama, Kanji, to Shionogi & Co., Ltd. Process for preparing diacetone-L-sorbose. 3,451,993, 6-24-69, Cl. 260-210.

Goshima, Kazuaki: *See*—
Tanaka, Hozumi; Hanabusa, Minoru; Goshima, Kazuaki; Unno, Yutaka; and Kajihara, Sadaji,3,450,505.

Goshima, Takeshi, to Canon Camera Company, Incorporated. Automatic focussing device for photographic cameras. 3,479,943, 11-25-69, Cl. 95-45.

Goshima, Takeshi; and Takado, Koichi, to Canon Camera Kabushiki Kaisha. Multi-flash arrangement for cameras. 3,438,315, 4-15-69, Cl. 95-11.5

Goshorn, Larry A.; and Harmon, Sherril A., to General Electric Company. Memory utilization apparatus and method. 3,430,209, 2-25-69, Cl. 340-172.5

Goshorn, Larry A.; and Harmon, Sherril A., to General Electric Company. Sub-word length arithmetic apparatus. 3,439,347, 4-15-69, Cl. 340-172.5

Goshorn, Larry A.; and Harmon , Sherril A., to General Electric Company. Circular listing. 3,473,161, 10-14-69, Cl. 340-172.5

Goshorn, Larry A.; and Harmon, Sherril A., to General Electric Company. Communications control apparatus in an information processing system. 3,487,370, 12-30-69, Cl. 340-172.5

Goshorn, Larry A.; Harmon, Sherril A.; and Erickson, Robert G., to General Electric Company. Information processing system using relative addressing. 3,470,537, 9-30-69, Cl. 340-172.5

Goslin, Geoffrey Walter, to Hawker Siddeley Dynamics Limited. Multiplex-type control apparatus. 3,469,162, 9-23-69, Cl. 318-18.

Gosling, Dickinson: *See*—
Spershott, Walter E.; Foster, Joseph S.; Thom, David; and Gosling, Dickinson,3,483,962.

Gosling, Richard H., to Geigy Chemical Corporation. Anti-phlogistic and analgesic compositions and methods for relieving inflammatory conditions. 3,482,021, 12-2-69, Cl. 424-273.

Gosling, Rolf, to Schutte and Koerting Company. Method and apparatus for controlling a jet pump. 3,456,871, 7-22-69, Cl. 230-111.

Gosmand, Roland P., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Isothermal assembly. 3,466,196, 9-9-69, Cl. 136-86.

Gosnell, Rex B., to Whittaker Corporation. Phthalimido-substituted perfluoroaromatic compounds. 3,461,135, 8-12-69, Cl. 260-326.

Goss, Arthur G.; and Bill, Arthur, to Rolls-Royce Limited. Vibration damping device. 3,473,853, 10-21-69, Cl. 308-15.

Goss, Daniel. Screen animator. 3,420,598, 1-7-69, Cl. 350-120.

Goss, Donald Davis, to Hood, H. P., & Sons, Inc. Beverage dispenser cabinet. 3,453,033, 7-1-69, Cl. 312-35.

Goss, Garnet: *See*—
Dale, John R.; Menzel, Harry R.; McCandless, Joseph M.; and Goss, Garnet,3,449,950.

Goss, Gary J.: *See*—
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J.,3,475,731.
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J.,3,483,522.

Goss Gas, Inc.: *See*—
Yerkins, Stephen J., 3,477,112.

Goss, Harry F.; and De Jean, Ronald A., to Eastman Kodak Company. Recovery of palladium and/or palladium salts. 3,484,235, 12-16-69, Cl. 75-121.

Goss, James W. Mirror hanger and molding combination. 3,478,997, 11-18-69, Cl. 248-488.

Goss, Norman P.; Black, James; and Stewart, William J., to Dominion Foundries and Steel, Limited. Silicon steel process. 3,438,820, 4-15-69, Cl. 148-110.

Gosse, Gerard: *See*—
Bloch, Claude; Gosse, Gerard; and Tamalet, Michel,3,470,397.

Gosse, Helmut: *See*—
Probst, Otto; Horning, Lothar; Hirsch, Lothar; and Gosse, Helmut,3,445,509.

Gosselin, Norman R., to Iota-Cam Corporation. Flexible fiber optic borescope. 3,434,775, 3-25-69, Cl. 350-96.

Gossen Corporation: *See*—
Gossen, John M., 3,473,278.

Gossen, John M. Combination moulding and door track for shelves. 3,419,933, 1-7-69, Cl. 16-94.

Gossen, John M., to Gossen Corporation. Wall trim assemblies. 3,473,278, 10-21-69, Cl. 52-287.

Gossen, P., & Co. G.m.b.H.: *See*—
Falkenburg, Fritz, 3,459,113.
Schmitt, Helmut, 3,436,158.

Gossett, Bryant W., to Gossett Machine Works, Inc. Adjustable drive assemblies for textile coilers. 3,420,117, 1-7-69, Cl. 74-417.

Gossett, Bryant W., to Gossett Machine Works, Inc. Vibration damping drive assembly for textile calender rolls. 3,431,603, 3-11-69, Cl. 19-159.

Gossett Machine Works, Inc.: *See*—
Dixon, James A., Jr., 3,443,282.
Gossett, Bryant W., 3,420,117.
Gossett, Bryant W., 3,431,603.

Gosshing, Robert C., to Clopay Corporation. Window shade pull. 3,484,910, 12-23-69, Cl. 24-259.

Gosta Trading Ltd.: *See*—
Borcovec, Werner, 3,452,390.

Gostling, Peter Eric, to Kwikform Limited. Lifting device for a supporting framework. 3,438,160, 4-15-69, Cl. 52-122.

Gostling, Peter Eric: *See*—
Francis, Leslie Walter; and Gostling, Peter Eric,3,420,557.

Gostomski, Frank T. Laterally extensible bumper assembly. 3,447,826, 6-3-69, Cl. 293-69.

Gostyn, Ernest, to General Instrument Corporation. Means for controlling distortion in a cathode ray tube. 3,427,497, 2-11-69, Cl. 315-27.

Gosudarstvenny Nauchno-Issledovatelsky Iproektny Institut Giprotjumenneftegaz: *See*—
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich, 3,473,624.

Gosudarstvenny Ordena Trudovogo Krasnogo Znameni Proektno-Izyskatelsky Insitiut Metrogiprotrans: *See*—
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich, 3,472,036.

Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw, to Biuro Projektow Przemyslu Hutniczego 'Biprohut'. Furnace for the production of steel. 3,459,417, 8-5-69, Cl. 266-34.

Gotberg, Roland C. Waxer. 3,457,016, 7-22-69, Cl. 401-131.

Goth, Gary J., to Case, J. I., Company. Automatic bucket positioner. 3,432,057, 3-11-69, Cl. 214-764.

Goth, Helmut: *See*—
Schroder, Gunter; Fink, Herbert; and Goth, Helmut,3,454,628.

Gothberg, Karl Evald Andreas, to Aktiebolaget Svenska Kullagerfabriken. Oil mist lubricator. 3,439,777, 4-22-69, Cl. 184-55.

Gothberg, Karl Evald Andreas, to SKF Industries, Inc. Reversible sliding bearings of spiral or helical groove type. 3,439,962, 4-22-69, Cl. 308-9.

Gothel, Herbert; and Feichtinger, Hans, to Ruhrchemie Aktiengesellschaft. Synthetic lubricants on the basis of diorthosilicic acid esters. 3,444,081, 5-13-69, Cl. 252-49.6

Goto, Asahiko: *See—*
Nakano, Taira; Goto, Asahiko; Yano, Kaname; and Shibata, Syojiro,3,453,704.
Goto, Eiichi, to Zaidan Hojin Parametion Kenkyusho (known as Parametron Institute). Parametron logical computer device. 3,432,680, 3-11-69, Cl. 307-88.
Goto, Jugo: *See—*
Matsui, Yutaka; and Goto, Jugo,3,487,080.
Goto, Jyunichi. Method of making pure brew of coffee. 3,484,245, 12-16-69, Cl. 99-71.
Goto, Kanehiko, to High Polymer Chemical Industries, Ltd. Method of continuously providing a fastener on a thermoplastic film. 3,462,332, 8-19-69, Cl. 156-244.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Electric gas lighter having a piezoelectric stack. 3,425,783, 2-4-69, Cl. 431-255.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Liquefied gas-fueled pocket-type smoking lighter. 3,453,064, 7-1-69, Cl. 431-131.
Goto, Michio; Takahashi, Yutaro; and Otohata, Etsuo, to Teijin Limited. Polymerization of caprolactam. 3,458,482, 7-29-69, Cl. 260-78.
Goto, Shinkichi: *See—*
Hayashi, Masahiro; and Goto, Shinkichi,3,460,423.
Goto, Tatsuo; and Nishimura, Takashi, to Hitachi, Ltd. DC to AC converter. 3,441,831, 4-29-69, Cl. 321-45.
Gotoghian, Georges Jacques: *See—*
Guichet, Lucien Robert; and Gotoghian, Georges Jacques,3,442,006.
Gotoh, Hitoshi. Telescopic sight with serpentine spring pivot means. 3,484,148, 12-16-69, Cl. 350-8.
Gotoh, Keishi: *See—*
Tanaka, Tatsuo; Gotoh, Keishi; and Kajiura, Hiroshi,3,478,599.
Gotoh, Kenji: *See—*
Toda, Tadahide; Gotoh, Kenji; and Obata, Haruyuki,3,450,115.
Gotohda, Masao; Kubota, Hiroshi; Nozaki, Fumio; and Omi, Shinzo, to Japan Atomic Energy Research Institute. Radiation graft polymerization of vinyl compounds onto cellulose in an emulsion system. 3,481,848, 12-2-69, Cl. 204-159.12
Gotsmann, Ulrich: *See—*
Konig, Hans-Joachim; Bodenstedt, Wolfgang; and Gotsmann, Ulrich,3,442,999.
Gotsuji, Takeo, to Fujiya Confectionery Co., Ltd. Method of molding and packaging chocolate cakes. 3,484,257, 12-16-69, Cl. 99-180.
Gott, Gordon E.: *See—*
Nelson, Robert M.; Gott, Gordon E.; and Lynch, John J.,3,442,689.
Gott, Hans; and Ritter, Josef, to EVG Entwicklung- und Verwertungsgesellschaft m.b.H. Devices for adjusting the transverse wire spacing in wire mesh welding machines. 3,431,952, 3-11-69, Cl. 140-112.
Gott, Hans; and Ritter, Josef, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Contact matrix for a wire mesh welding machine. 3,469,055, 9-23-69, Cl. 219-56.
Gott, Hans: *See—*
Sommeregger, Heinz; and Gott, Hans,3,424,888.
Gott, Paul G.: *See—*
Martin, James C.; and Gott, Paul G.,3,442,906.
Gotte, Ernst: *See—*
Schmadel, Edmund; and Gotte, Ernst,3,422,020.
Gottesleben, Hilmar: *See—*
Jung, Richard; and Gottesleben, Hilmar,3,471,063.
Gottesman, Arthur H.: *See—*
Tronnier, Albrecht W.; Jeremias, Helmuth M.; and Gottesman, Arthur H.,3,479,117.
Gottfried, Arthur H. Circuit for the reduction of noise by cancellation techniques. 3,432,765, 3-11-69, Cl. 330-126.
Gottfried, Louis, to Grunfeld, Helen. Rocking assembly. 3,471,196, 10-7-69, Cl. 297-133.
Gottfried, Louis; and Berger, Jacob. Baby chair with releasable side guards. 3,424,493, 1-28-69, Cl. 297-384.
Gottfried, Louis; and Berger, Jacob. Detachable juvenile utility assembly. 3,442,527, 5-6-69, Cl. 280-47.41
Gottfried, Louis; and Berger, Jacob, to Rex-Stroll-O-Chair Company, mesne. Orthopedic chair. 3,464,754, 9-2-69, Cl. 297-284.
Gottfried, William, to RCA Corporation. Printed circuit boards. 3,483,615, 12-16-69, Cl. 29-625.
Gottinger, John G. Magnetic holding device for securing paint brushes to the sides of paint cans and similar objects. 3,425,012, 1-28-69, Cl. 335-285.
Gottinger, John G. Handtruck accessory. 3,486,651, 12-30-69, Cl. 214-511.
Gottlieb, Irving M., to Singer-General Precision, Inc. Loop oscillator for a vehicle presence detector. 3,474,409, 10-21-69, Cl. 340-38.
Gottlieb, Joel B.; and Mayo, William E., to M & T Chemicals Inc. Stabilized resins containing a phenol and a stannoic acid. 3,424,712, 1-28-69, Cl. 260-45.75
Gottlieb, Joel B.; and Mayo, William E., to M & T Chemicals Inc. Stabilized vinyl resins. 3,424,717, 1-28-69, Cl. 260-45.75
Gottlieb, Michael, to Liberty Fabrics of New York, Inc. Girdle-stocking combination. 3,469,583, 9-30-69, Cl. 128-519.
Gottlieb, Michael, to Liberty Fabrics of New York, Inc. Girdle-stocking combination with anti-ride up and gap preventing means. 3,470,878, 10-7-69, Cl. 128-519.
Gottlieb, Nathan, to American Optical Company. Microscope illuminating system. 3,421,808, 1-14-69, Cl. 350-87.
Gottlieb, Nathan. Motorized spindle. 3,422,726, 1-21-69, Cl. 91-136.
Gottschald, Rudolf, to Ehrenreich, A., & Cie. Sealing bellows for ball joints. 3,423,114, 1-21-69, Cl. 287-87.
Gottschald, Rudolf, to Ehrenreich, A., & Cie. Ball joints, in particular for guides and steering gear, preferably of motor vehicles. 3,445,131, 5-20-69, Cl. 287-90.
Gottschald, Rudolf, to Ehrenreich, A., & Cie. Ball joints, especially to be used with motor vehicles. 3,472,540, 10-14-69, Cl. 287-87.
Gottschald, Rudolf; and Maxeiner, Gottfried, to Ehrenreich, A., & Cie. Steel pipe track rod for motor vehicles. 3,439,946, 4-22-69, Cl. 287-90.
Gottschalk, Gunther; and Krause, Dieter H. N., to Eichner Organisation G.m.b.H. Arrangement for separating a typewriter from a control device. 3,420,351, 1-7-69, Cl. 197-19.
Gottschalk, Klaus; and Wilson, John, to General Electric Company. Compact source discharge lamp manufacture. 3,419,947, 1-7-69, Cl. 29-25.16
Gottschalk, Robert E., to Panavision, Incorporated. Variable anamorphic lens system. 3,428,398, 2-18-69, Cl. 355-52.
Gottschlich, Alois: *See—*
Leverenz, Klaus; and Gottschlich, Alois,3,468,871.
Gottstein, William Joseph, to Bristol-Myers Company. Racemic monocarboxylic acid resolution using dehydroabietylamine. 3,454,626, 7-8-69, Cl. 260-501.1
Gottwald, Leo, K.G.: *See—*
Eiler, Peter, 3,481,490.
Gottzmann, Christian E.; Halloran, James A.; and Wilson, Fred A., to Union Carbide Corporation. Cryogenic liquid metering pump. 3,456,595, 7-22-69, Cl. 103-203.
Gotz, Alfred, to Daimler-Benz Aktiengesellschaft. Heat-exchanger, especially for heating and cooling the lubricant of liquid-cooled internal combustion engine. 3,420,295, 1-7-69, Cl. 165-51.
Gotz, Franz: *See—*
Sauttr, Gerd; Mockesch, Erich; and Gotz, Franz,3,478,756.
Gotz, Hans; and Drewitz, Julius, to Sulzer Brothers Limited. Loom having variable stroke weft thread clamp. 3,441,059, 4-29-69, Cl. 139-25.
Gotz, Walter O., to Minigrip, Inc. Plastic bag. 3,473,589, 10-21-69, Cl. 150-3.
Gotze, Gotthold: *See—*
Wehr, Georg; Gotze, Gotthold; and Streich, Gerhard,3,457,975.
Gotze, Johannes: *See—*
Kampfer, Helmut; Gotze, Johannes; Reister, Oskar; and Bockly, Erich,3,480,439.
Gotze, Johannes, to Agfa Aktiengesellschaft. Silver halide emulsions sensitized with cyanine dyes containing a hydroxypropyl sulfonic acid radical. 3,424,586, 1-28-69, Cl. 96-106.
Gotze, Werner: *See—*
Gerland, Heinz; Gotze, Werner; and Jaeschke, Walter,3,471,327.
Gotze, Wolfgang: *See—*
Kettenring, Otto; and Gotze, Wolfgang,3,449,273.
Gotzenberger, Rudibert, to Flitsch, Ernst. Expansion valve. 3,459,211, 8-5-69, Cl. 137-270.
Goudeau, Selena: *See—*
Seda, Orlando L.; and Goudeau, Selena,3,450,293.
Gough, Alfred B., to General Electric Company. Luminaire. 3,480,772, 11-25-69, Cl. 240-25.
Gough, Boyd C. Garbage can cart with removable snow ski. 3,463,502, 8-26-69, Cl. 280-8.
Gough Econ Limited: *See—*
Gough, George Terah, 3,486,605.
Gough, George Terah, to Gough Econ Limited. Bucket conveyors. 3,486,605, 12-30-69, Cl. 198-146.
Gough, Stanley T. D., to Mobil Oil Corporation. 4-Benzothienyl ethyl 2,2-dichlorovinyl phosphate pesticide. 3,468,909, 9-23-69, Cl. 260-330.5
Gough, Stanley T. D.: *See—*
Kaufman, Harold A.; Napier, Roger P.; and Gough, Stanley T. D.,3,469,004.
Gouin, Albert J.: *See—*
Anderson, Robert E.; and Gouin, Albert J.,3,460,965.
Goujard, Marie Pierre, to Compagnie Gervias Danone. Process and apparatus for the production of cheese pastes and milk curds. 3,484,356, 12-16-69, Cl. 204-180.
Gould, Barbara E., legal representative: *See—*
Larsen, Aubrey A.; and Gould, William A.,3,472,870.
Gould, Francis E., to Princeton Chemical Research, Inc. Indicia recording polyamide coating. 3,481,755, 12-2-69, Cl. 117-8.
Gould, Francis E.: *See—*
Shepherd, Thomas H.; and Gould, Francis E.,3,470,883.
Gould, Harold L. B.; and Wenny, Daniel H., Jr., to Bell Telephone Laboratories, Incorporated. Devices utilizing a cobalt-vanadium-

iron magnetic material which exhibits a composite hysteresis loop. 3,422,407, 1g14-69, Cl. 340-174.
Gould, Irwin M.; and Moe, Gerald A., to Bell & Howell Company. Slide projector. 3,477,563, 11-11-69, Cl. 206-62.
Gould, Irwin M.; and Moe, Gerald A., to Bell & Howell Company. Slide projector having a tray locking frame. 3,477,785, 11-11-69, Cl. 353-116.
Gould, John V.; and Jahrstorfer, George W., to United Aircraft Corporation. Pressure vessel construction. 3,471,920, 10-14-69, Cl. 29-423.
Gould, John V.; and Rasmussen, James E., to Simpson Timber Company. Splined butt joint system for lumber siding. 3,437,360, 4-8-69, Cl. 287-20.92
Gould, Joseph O.: *See*—
Sunshine, Norman B.; Hick, Robert M., Jr.; and Gould, Joseph O.,3,445,423.
Gould, Lawrence Peabody, to Allied Chemical Corporation. Sodium sesquicarbonate-containing composition and its method of preparation. 3,485,578, 12-23-69, Cl. 23-63.
Gould, Patrick: *See*—
Forbes, Alan D.; and Gould, Patrick,3,422,014.
Gould, Robert: *See*—
Baker, William A.; Hartree, John R.; and Gould, Robert,3,429,166.
Gould, Russell Dunplop; and Richter, John Edward. Tree shaking apparatus. 3,457,712, 7-29-69, Cl. 56-328.
Gould, William A.: *See*—
Larsen, Aubrey A.; and Gould, William A.,3,472,870.
Gould-National Batteries, Inc.: *See*—
Menard, Claude J., 3,442,710.
Miller, James H., 3,457,118.
Goulding, Merrill Keith, to Electronic Specialty Company. Mechanical movement apparatus. 3,439,550, 4-22-69, Cl. 74-89.15
Goulstone, Ray T.: *See*—
Casner, Bernard G.; and Goulstone, Ray T.,3,474,904.
Goulter, Victor Harold. Seed sower or other distributing device. 3,482,735, 12-9-69, Cl. 221-211.
Goundry, Paul C., to Texas Instruments, Incorporated. Method and apparatus for producing crystalline semiconductor ribbon. 3,453,352, 7-1-69, Cl. 264-93.
Goundry, Paul C.; and Boatman, James C., to Texas Instruments, Incorporated. Continuous junction growth. 3,470,039, 9-30-69, Cl. 148-172.
Gouner, Aubrey L., to Wembley, Inc. Wrap-around band for neckties. 3,462,865, 8-26-69, Cl. 40-21.
Goupil, Jean, to Commissariat a l'Energie Atomique. Determination of rainfall radioactivity. 3,423,587, 1-21-69, Cl. 250-83.3
Gourdine, Meredith C., to Gourdine Systems, Incorporated. Electrogasdynamic method and apparatus for detecting the properties of particulate matter entrained in gases. 3,449,667, 6-10-69, Cl. 324-71.
Gourdine, Meredith C., to Gourdine Systems Incorporated. Electrogasdynamic systems. 3,452,225, 6-24-69, Cl. 310-11.
Gourdine Systems, Incorporated: *See*—
Gourdine, Meredith C., 3,449,667.
Gourdine, Meredith C., 3,452,225.
Gourlay, George: *See*—
Cooke, Brian Alfred; and Gourlay, George,3,433,755.
Gourlay, George, to Imperial Chemical Industries Limited. Preparation of glyoxal. 3,471,567, 10-7-69, Cl. 260-604.
Gourle Eugene F., to Mc Crosky Tool Corporation. Self-indexing turret. 3,461,525, 8-19-69, Cl. 29-35.5
Gourlet, Roger: *See*—
Schayes, Raymond; and Gourlet, Roger,3,450,884.
Gourley, Eugene F., to McCrosky Tool Corporation. Blade locking devices. 3,467,416, 9-16-69, Cl. 287-189.36
Gourse, Jerome A., to Velsicol Chemical Corporation. Process for the preparation of 1,2,3,6- tetrahydro-3,6-endo-methano-3,4,5,6,7,7- hexabromophthalic anhydride. 3,454,602, 7-8-69, Cl. 260-346.6
Gousetis, Spero. Fire fighting apparatus. 3,442,334, 5-6-69, Cl. 169-2.
Gouw, Lam H.; Voncken, Josef H.; Frielingsdorf, Hans; and Powers, Gene W., to Shell Oil Company. Process for the preparation of fibrous, filamentous products and the resultant product. 3,480,507, 11-25-69, Cl. 161-178.
Govaerts, Gerard: *See*—
Latrubesse, Andre; Hullot, Maxime; and Govaerts, Gerard,3,448,416.
Govan, William L., to Farrel Corporation. Hydraulically operated machine and control system therefor. 3,446,053, 5-27-69, Cl. 72-253.
Gove, Donald C., to Ikor, Incorporated. Ignition system. 3,443,555, 5-13-69, Cl. 123-148.
Gove, Harvey H.; and Anderson, John C., to Black, Clawson Company, The. Plastic pelletizer die plates. 3,427,685, 2-18-69, Cl. 18-12.
Governor, Woodward, Company: *See*—
Leeson, James L., Jr., 3,483,364.
Gow, John, III: *See*—
Dietsch, Hans E.; Gow, John, III; and Surty, Rohinton J.,3,458,352.
Gow, Kenneth P.: *See*—
Beall, Horace A., Jr.; Cross, James V.; and Gow, Kenneth P.,3,458,709.
Gow, Kenneth P., to North American Rockwell Corporation. Method for navigating a space vehicle. 3,439,427, 4-22-69, Cl. 33-61.
Gow, Robert Stewart, to Imperial Chemical Industries Limited. Particulate explosive coated with discrete particles of polytetrafluoroethylene. 3,455,749, 7-15-69, Cl. 149-4.
Gow, Robert Stewart, to Imperial Chemical Industries Limited. Process for the preparation of an explosive composition coated with polytetrafluoroethylene. 3,466,204, 9-9-69, Cl. 149-3.
Gowan, Alastair C., to General Electric Company. Polyarylene polyether composition. 3,472,810, 10-14-69, Cl. 260-33.6
Gowan, John W., to St. Louis Shipbuilding-Federal Barge, Inc. Submerged arc welding apparatus. 3,420,979, 1-7-69, Cl. 219-125.
Gowan, Richard L., to United States of America, Navy. Data gathering system. 3,438,019, 4-8-69, Cl. 340-214.
Gowan, Richard L., to United States of America, Navy. Stimulus injection system for localizing defective components in cascaded systems. 3,469,186, 9-23-69, Cl. 324-73.
Gowan, Richard L., to United States of America, Navy. System for isolating a single pulse from a series of pulses. 3,487,317, 12-30-69, Cl. 328-110.
Gowan, Richard L.; and Tyler, Howard V., to United States of America, Navy. Pulse parameter measuring system. 3,458,660, 7-29-69, Cl. 179-15.
Gowan, Richard L.: *See*—
Tyler, Howard V.; and Gowan, Richard L.,3,454,788.
Tyler, Howard V.; and Gowan, Richard L.,3,454,789.
Gowar, John: *See*—
Fraser, David Alexander; and Gowar, John,3,458,758.
Gowdey, Dwight M. Hand-operated buffer and method of developing same. 3,441,971, 5-6-69, Cl. 15-210.
Gowdy, Eunice J.; and Hoppel, Gary M. Bacteriology rack. 3,464,567, 9-2-69, Cl. 211-74.
Gowdy, William G., to Dow Corning Corporation. Method for rendering solid or porous materials hydrophobic. 3,481,768, 12-2-69, Cl. 117-100.
Gowdy, William G.; and Keil, Joseph W., to Dow Corning Corporation. Composition consisting essentially of hydrocarbon polymer and an organo silicon compound. 3,453,248, 7-1-69, Cl. 260-79.5
Gowdy, William G.: *See*—
Speier, John L.; Keil, Joseph W.; and Gowdy, William G.,3,440,302.
Gowen, Edward F., Jr.; Ollis, Raymond, Jr.; and Walker, Richard A., to Standard Pressed Steel Co. High fatigue bolt thread. 3,433,117, 3-18-69, Cl. 85-1.
Gowen, James R.: *See*—
Blum, Bernard; Gowen, James R.; and Schwartzenberg, John W.,3,441,725.
Gowen, Richard J., to Carter-Wallace, Inc. Digital blood pressure measuring device. 3,482,565, 12-9-69, Cl. 128-2.05
Gower, Bob G.; Isaacson, Henry V.; and Young, David W., to Sinclair Research, Inc. Laundry detergents containing ammonium salt of styrenemaleic anhydride copolymer and non-ionic, hydroxyl-containing surfactant. 3,485,762, 12-23-69, Cl. 252-152.
Gower, Bob G.: *See*—
Verdol, Joseph A.; and Gower, Bob G.,3,429,946.
Gower, Francis B., III, to Armour Pharmaceutical Company, mesne. Rebalancing apparatus for translating an electrical signal to a symbolic dispaly. 3,483,554, 12-9-69, Cl. 340-366.
Gower, Roger L. Cobra-head shaped connector hook and methods of use use. 3,424,219, 1-28-69, Cl. 152-241.
Gower, Roger L. Traction device for vehicles. 3,481,383, 12-2-69, Cl. 152-229.
Gowins, John F.: *See*—
Hillegass, Kenneth P.; and Gowins, John F.,3,438,472.
Goy, Ronald S., to Dunlop Company Limited, The. Method for the manufacture of cord. 3,425,209, 2-4-69, Cl. 57-157.
Goyen, Garrett E. Portable watercraft. 3,438,074, 4-15-69, Cl. 9-6.
Goyet, Daniel; and Gratiot, Jacques, to Societe Anonyme dite: L, Oreal. Bottle stopper. 3,430,798, 3-4-69, Cl. 215-41.
Goymour, Edward Philip, to National Research Development Corporation. Load cell. 3,436,961, 4-8-69, Cl. 73-141.
Gozzo, Franco; and Oprandi, Venanzio, to Montecatini Edison S.p.A. Process for the preparation of tetrafluoroethylene oxide. 3,458,535, 7-29-69, Cl. 260-348.5
GPE Controls, Inc.: *See*—
Brewer, Nathaniel; and Wilson, Francis B., 3,433,133.
Dunkelis, Evald, 3,454,039.
Tomlinson, Denver D., 3,452,420.
G.Q. Parachute Company Limited: *See*—
Cooper, Daniel Waumsley, 3,480,108.
G. Q. Parachute Company Limited: *See*—
Basnett, James Thomas, 3,464,653.
Mitchell, John Rothwell, 3,450,377.

Graab, Judson W.; Rosenblum, Louis; Maple, William E.; Dupraw, William A.; and Gahn, Randall F., to United States of America, National Aeronautics and Space Administration. Analytical test apparatus and method for determining oxide content of alkali metal. 3,472,625, 10-14-69, Cl. 23-230.
Grabbe, Dimitry G., to Photocircuits Corporation. Interconnection structure and method of making same. 3,434,204, 3-25-69, Cl. 29-577.
Graber, David A., to Fairchild Hiller Corporation. Fuel nozzle. 3,456,441, 7-22-69, Cl. 60-39.74
Graber, David A.: *See—*
Lockwood, Raymond M.; Bennett, Edward L.; and Graber, David A.,3,462,955.
Graber, Joseph V.; and Salzmann, Ferdinand F., to Consolidated Foods Corporation, mesne. Drapery rod and bracket. 3,470,578, 10-7-69, Cl. 16-94.
Graber Manufacturing Company, Inc.: *See—*
Salzmann, Ferdinand F., 3,453,682.
Grabhofer, Herbert: *See—*
Huckstadt, Harald; Saleck, Wilhelm; Ulrich, Hans; Randolph, August; and Grabhofer, Herbert,3,434,842.
Grabhofer, Herbert; and Meinhardt, Gunter, to Agfa Aktiengesellschaft. Photographic material having a roughened protective layer. 3,443,946, 5-13-69, Cl. 96-50.
Grabhofer, Herbert; and Ulrich, Hans, to Agfa Aktiengesellschaft. Antistatic photographic materials. 3,428,456, 2-18-69, Cl. 96-87.
Grabl, Sebastian, to Burroughs Corporation. Overload protection for a voltage-regulated power supply. 3,473,106, 10-14-69, Cl. 323-9.
Grable, Glenn H.: *See—*
Allen, Dwight L.; and Grable, Glenn H.,3,477,438.
Grable, Ronald C.; and Patzer, Hans E., to Westinghouse Electric Corporation. Wire bonding apparatus for microelectronic components. 3,430,835, 3-4-69, Cl. 228-3.
Grabner, Floyd V. Slack takeup device. 3,438,098, 4-15-69, Cl. 24-131.
Grabowski, Edwin T. Apparatus for landing overboard gear. 3,465,901, 9-9-69, Cl. 214-15.
Grabowski, Thomas S., to Borg-Warner Corporation. Polymeric blends. 3,442,977, 5-6-69, Cl. 260-876.
Grabowski, Thomas S., to Borg-Warner Corporation. Flame retardant ABS graft polymer blends. 3,442,980, 5-6-69, Cl. 260-880.
Grabowski, Thomas S., to Borg-Warner Corporation. Peroxide-cured blends of diene rubbers and ABS graft copolymer. 3,449,470, 6-10-69, Cl. 260-876.
Grace, Alan G., to Fowler, Allan, R., mesne. Pulse type demodulator system for angle modulated signals utilizing the characteristics of a tunnel diode for forming the pulse train. 3,435,354, 3-25-69, Cl. 329-126.
Grace, Alan G., to Fowler, Alan R., mesne. Switched frequency and phase comparator. 3,478,178, 11-11-69, Cl. 179-100.2
Grace, Edward J.; and Cornforth, Malcolm W., to American Meter Company, mesne. Control system. 3,454,037, 7-8-69, Cl. 137-487.5
Grace, Ernest Edward; and Woolman, Myrle T. Pack harness. 3,464,607, 9-2-69, Cl. 224-25.
Grace, John W.: *See—*
Daglian, John S.; Grace, John W.; and Clasen, Carl P.,3,427,570.
Grace Machinery Corporation: *See—*
Collins, Lowell J., 3,433,648.
Grace, Oscar M.: *See—*
Burke, Oliver W., Jr.; Stahly, Eldon E.; and Grace, Oscar M.,3,438,926.
Grace, Paul R.: *See—*
Stoffer, Homer; and Grace, Paul R.,3,419,927.
Grace, W. R., & Co.: *See—*
Angstadt, Richard L.; and Hurley, Forrest R., 3,427,175.
Arnold, Roger F., 3,476,575.
Backus, Andrew C.; and Wood, Louis L., 3,453,300.
Baker, Richard W.; Ciapetta, Frank G.; Wilson, Charles P., Jr.; and Maher, Philip K., 3,425,956.
Bauer, Clifford D.; Neuser, Gerald L.; and Pinkalla, Hamilton A., 3,483,004.
Benning, Calvin J.; and Adams, Ronald L., 3,470,119.
Bieniek, Thomas; and Maselli, James M., 3,443,913.
Blair, Stanley A., 3,447,710.
Bornstein, Norman D., 3,463,752.
Braude, George L.; and Lard, Edwin W., 3,431,133.
Briggs, Warren S.; Stover, William A.; and Warthen, John L., 3,470,105.
Briggs, Warren Stanley; Stover, William Albert; and Henderson, Donald Stuart, 3,455,843.
Brooks, Arthur M., 3,445,259.
Brooks, Arthur M., 3,481,826.
Brooks, Arthur M., 3,481,827.
Busch, Georg Ludvig, 3,438,767.
Cahill, Gerald F.; Avtges, James A.; and Hundt, Donald D., 3,444,281.
Chapin, Judson K., Jr.; and Robinson, David W., 3,459,531.
Churchill, Ivan F.; Searcy, Homer A.; and Taylor, Monroe F., 3,469,368.
Ciapetta, Frank G.; Henderson, Donald S.; and Baust, George A., 3,471,265.
Cook, John M., 3,429,717.
Cote, James A.; Ferrington, Thomas E.; and Gregorian, Razmic S., 3,463,765.
Dahl, Erik Qvale, 3,443,923.
Daniels, David A.; Harper, James L.; and Steadman, Thomas R., 3,479,387.
Daniels, David A., 3,479,388.
Decker, Erhard, 3,475,355.
Dobres, Robert M.; Parthasarathy, R.; and Warthen, John L., 3,423,455.
Dobres, Robert M.; and Warthen, John L., 3,431,196.
Dodson, Vance H.; and Serafin, Frank G., 3,443,976.
Doyle, Carroll F.; and Becker, David L., 3,425,638.
Dreyfus, Robert L., 3,479,788.
Dunseth, Maria G.; and Salutsky, Murrell L., 3,421,877.
Dunseth, Maria G.; Legal, Casimer C., Jr.; and Veltman, Preston L., 3,437,379.
Edelson, Martin R.; and Angstadt, Richard L., 3,425,892.
Ehrig, Raymond J.; and Kundell, Frederick A., 3,434,946.
Ehrig, Raymond J.; and Lin, Tien-Sung, 3,464,849.
Elliott, Curtis H., Jr., 3,463,608.
Emus, Ronald Wilbur, 3,427,789.
Ferington, Thomas E., 3,479,317.
Fitch, Frederick T.; and Shoup, Robert D., 3,444,088.
Fitch, Frederick T.; and Shoup, Robert D., 3,453,216.
Flack, Herbert P.; and McClanahan, Henry H., 3,463,842.
Funk, Andrew B.; Legal, Casimer C., Jr.; and Richmond, Alvin, 3,421,879.
Godfrey, John J.; Sykes, James A.; Harper, James L.; and Morgan, Charles R., 3,463,811.
Goldman, Alex K., 3,458,110.
Gregorian, Razmic S., 3,465,072.
Gregorian, Razmic S.; and Bush, Richard W., 3,477,924.
Grushkin, Bernard, 3,454,409.
Harper, James L.; and Daniels, David A., 3,424,783.
Harper, James L.; and Thomas, Alan H., 3,472,886.
Harper, James L.; and Daniels, David A., 3,483,175.
Harper, James L.; and Thomas, Alan H., 3,483,243.
Harrison, John W., 3,479,789.
Harrison, William B.; and Boulton, Richard C., 3,454,282.
Heinemann, Frederick E.; and Moore, Charles B., 3,466,187.
Heyl, Edgar G., 3,460,951.
Hill, Richard N.; and Brackney, Harry S., 3,431,096.
Hubbard, Bruce W., 3,461,576.
Hundt, Donald D.; and Kelly, Andrew J., 3,475,201.
Hwa, Chih M., 3,431,217.
Hyde, James R., 3,453,077.
Isaacs, Philip K., 3,472,658.
Isaacs, Philip K., 3,472,807.
Isaacs, Philip K.; and Guthrie, James L., 3,483,014.
Isaacs, Philip K., 3,483,025.
Isgur, Irving E.; and Ohlson, John L., 3,472,808.
Jaffe, Fred, 3,444,237.
Kabas, Guglielmo, 3,435,072.
Kapar, Charles, 3,427,144.
Kawam, Antoine, 3,459,629.
Keenum, John C., Jr.; and Angstadt, Richard L., 3,429,724.
Keenum, John C., Jr.; and Angstadt, Richard L., 3,429,725.
Kehr, Clifton L.; and Guthrie, James L., 3,478,004.
Ketley, Arthur D., 3,439,009.
Ketley, Arthur D., 3,453,336.
Ketley, Arthur D.; and Steadman, Thomas R., 3,463,740.
Ketley, Arthur D., 3,479,379.
Krau, John W.; and Hurley, Forrest R., 3,434,917.
Larsen, Donald W., 3,464,952.
Laskin, Maruie, 3,472,663.
Laskin, Maurie, 3,464,834.
Laskin, Maurie, 3,483,000.
Legal, Casimer C., Jr.; Richmond, Alvin; and Bruno, Anthony J., Jr., 3,433,617.
Legal, Casimer C., Jr.; and Brackney, Harry S., 3,481,700.
Legal, Casimer C., Jr., 3,482,945.
Lundsager, Christian B., 3,449,054.
Lyster, Norman J.; and Chambers, Clarence M., 3,422,596.
Mac Cragh, Adolfo; Sanchez, Moises G.; and Smith, Jean G., 3,431,097.
Magee, John S., Jr.; and Briggs, Warren S., 3,433,747.
Magee, John S., Jr.; and Briggs, Warren S., 3,433,748.
Maher, Philip K.; Baker, Richard W.; and McDaniel, Carl V., 3,423,332.
Marans, Nelson S., 3,424,638.
Marens, Nelson S.; and Jaffe, Fred, 3,438,883.
Maselli, James M., 3,433,767.
Maselli, James M.; and Rice, Rip G., 3,449,288.
Matthews, John C.; and Wood, Louis L., 3,474,464.
McDaniel, Carl Vance; and Maher, Philip Kenerick, 3,449,070.
McDaniel, Carl Vance; Maher, Philip Kenerick; and Pilato, Joseph Michael, 3,472,617.
Meyer, Hans R., 3,427,261.

Michal, Albert, 3,444,090.
Mitchell, Charles T., Jr.; and Scheufele, William F., 3,455,726.
Mitchell, Charles T., Jr.; and Scheufele, William F., 3,458,346.
Mitchell, Fern W., 3,442,661.
Mittman, Emanuel, 3,483,057.
Morgan, Charles R.; and Godfrey, John J., 3,463,805.
Nelson, Robert M.; Gott, Gordon E.; and Lynch, John J., 3,442,689.
O'Brien, John J.; and Irbrahim, Ghazi Z., 3,430,679.
Patterson, William A., 3,425,541.
Patterson, William A., 3,429,794.
Patterson, William A.; Schirmer, Henry G.; and Weissman, Stanley N., 3,432,447.
Pryor, James N.; and Wunderlich, Orville A., 3,472,897.
Ross, William C., 3,467,009.
Rothfelder, Raymond Ernest, 3,475,435.
Salutsky, Murrell L., 3,444,054.
Schirmer, Henry G., 3,435,190.
Schirmer, Henry G., 3,468,777.
Schirmer, Henry G., 3,471,597.
Schurman, Peter T.; and Confer, Raymond C., 3,441,071.
Schurman, Peter T.; and Confer, Raymond C., 3,452,125.
Serafin, Frank G., 3,420,686.
Serafin, Frank G., 3,420,687.
Serafin, Frank G., 3,442,673.
Serafin, Frank G., 3,443,975.
Serafin, Frank G., 3,459,570.
Simons, Charles W.; and Gribens, Joel A., 3,443,006.
Simons, Charles W., 3,462,331.
Smith, Paul R., Jr., 3,455,451.
Squitieri, Vincent; and Wollmar, Dick J., 3,483,074.
Stern, Eric W.; and Spector, Marshall L., 3,479,392.
Sternau, Martin M., 3,439,587.
Surland, George J.; and Magee, John S., Jr., 3,434,976.
Thunberg, Jon C.; and Hegarty, James J., 3,463,812.
Veltman, Preston L.; and Imperiale, Peter G., 3,481,706.
Waters, Paul F.; and Muraro, Leo J., 3,431,242.
Werber, Frank X.; and Marans, Nelson S., 3,483,160.
Whitesel, Joseph Collichio; and Weissman, Stanley Norman, 3,463,652.
Willett, John A., 3,444,275.
Wszolek, Walter R., 3,427,193.

Graczyk, Bronislaus S.: *See—*
Riester, William C.; and Graczyk, Bronislaus S.,3,469,863.

Graczyk, Thadeus S.: *See—*
Hamilton, Allen R.; and Graczyk, Thadeus S.,3,429,501.

Grad, Peter P.: *See—*
Harris, Dwight E.; and Grad, Peter P.,3,445,148.

Grad, Peter P., to Rotron Manufacturing Company, Inc. Method for securing motor winding heads. 3,460,242, 8-12-69, Cl. 29-596.

Gradeff, Peter S.: *See—*
Meuly, Walter C.; and Gradeff, Peter S.,3,480,677.

Grader, Jerome E.: *See—*
Beahm, Robert B.; and Grader, Jerome E.,3,474,815.

Grado, Gilbert R., to Astrodata, Inc. Electronic resolver. 3,457,394, 7-22-69, Cl. 235-189.

Grado, Joseph F. Stereo phonograph cartridge. 3,482,061, 12-2-69, Cl. 179-100.41

Gradon, Keith: *See—*
Harvey, Richard Alfred; Gradon, Keith; and Chantry, John Alfred,3,483,701.

Graduate Pain Research Foundation: *See—*
Nobel, Joel J., 3,428,383.

Grady, Charles B., Jr. Energy conservative control drive for electric vehicles. 3,454,122, 7-8-69, Cl. 180-65.

Grady, Charles B., Jr.; and Wales, Nathaniel B., Jr. Remaining battery charge meter. 3,484,681, 12-16-69, Cl. 324-29.5

Grady, J. J., Co., Inc.: *See—*
Armstrong, John, 3,436,120.

Grady, Joseph E.: *See—*
Argoudelis, Alexander D.; Grady, Joseph E.; and Sayer, Gordon C.,3,476,738.

Grady, Laurence B.: *See—*
Natalis, Herbert E.; and Grady, Laurence B.,3,483,449.

Grady, Raymond F., Jr., to General Electric Company. Remote temperature measurement device. 3,452,597, 7-1-69, Cl. 73-343.

Graef, John R.: *See—*
Wegmann, Jerome B.; and Graef, John R.,3,469,532.

Graef, Kurt P., to Ford Motor Company. Hydropneumatic strut. 3,456,940, 7-22-69, Cl. 267-64.

Graef, Luther W.: *See—*
Nowak, Ervin K.; and Graef, Luther W.,3,436,886.

Graeff, Norwood Claude; and Shannon, Suel Grant, to AMP Incorporated. Ligating implement with ligature severing means. 3,476,115, 11-4-69, Cl. 128-326.

Graeff, Norwood Claude: *See—*
Shannon, Suel Grant; and Graeff, Norwood Claude,3,426,757.
Shannon, Suel Grant; and Graeff, Norwood Claude,3,476,114.

Graeme, Jerald G.: *See—*
McGraw, Donald R.; and Graeme, Jerald G.,3,440,554.

Graeser, James B., Jr.: *See—*
Lenkey, Andrew; and Graeser, James B., Jr.,3,430,852.

Graetz, Edward A. Rotary pump or motor. 3,433,169, 3-18-69, Cl. 103-136.

Graetz, Edward A.: *See—*
Patz, Paul; and Graetz, Edward A.,3,447,667.

Graeve, Rolf E.: *See—*
Biel, John H.; and Graeve, Rolf E.,3,426,037.

Graf, Carlton E., to General Electric Company. Time delay control circuit. 3,487,236, 12-30-69, Cl. 307-293.

Graf, David F., to Warwick Electronics Inc. Noise gating circuit for synchronizing signal separator. 3,428,746, 2-18-69, Cl. 178-7.3

Graf, David F., to Warwick Electronics Inc. Noise cut-off sync-separator. 3,483,322, 12-9-69, Cl. 178-69.5

Graf, Emil: *See—*
Strub, Rene; and Graf, Emil,3,472,024.

Graf, Felix, to Rieter Machine Works, Ltd. Relaxation apparatus for a draw winder for synthetic threads. 3,460,215, 8-12-69, Cl. 28-62.

Graf, Marcel, to Prematex S.A. Clamping device of a part of a machine on another part of said machine. 3,455,191, 7-15-69, Cl. 82-36.

Graf, Max; Kotz, Gottfried; and Roth, Helmut, to Badische Maschinenfabrik G.m.b.H. Vibratory classifier. 3,473,657, 10-21-69, Cl. 209-117.

Graf, Max; and Weis, Martin, to Badische Maschinenfabrik G.m.b.H. Method and apparatus for cleaning metal objects. 3,473,268, 10-21-69, Cl. 51-13.

Graf, Raymond J.; Burns, Robert; and Jahnke, Robert H., to Cincinnati Shaper Company, The. Numerically controlled punching machine and method. 3,448,645, 6-10-69, Cl. 83-71.

Graf, Raymond John; and Koors, Carl William, to Cincinnati Shaper Company, The. Hydraulic releasable stop device for presses and the like. 3,460,202, 8-12-69, Cl. 18-16.

Graf, Richard H., to Hooker Chemical Corporation. Thermoplastic installation apparatus. 3,439,379, 4-22-69, Cl. 18-1.

Graf, Robert B., to United Aircraft Corporation. Temperature sensitive electrical control element. 3,483,140, 12-9-69, Cl. 252-518.

Graf, Robert B.: *See—*
Galasso, Salvatore F.; and Graf, Robert B.,3,483,139.

Graf, Robert E.: *See—*
Young, Robert W.; Graf, Robert E.; and Robinson, Charles C.,3,420,601.

Graf, Rudolf F., to Sprague Electric Company. A.C. latching circuit for SCR having photoresistive latching. 3,467,828, 9-16-69, Cl. 250-214.

Graf, Russell H., to General Electric Company. Burr gage. 3,470,552, 9-30-69, Cl. 340-267.

Graf, Walter A., Jr., to General Electric Company. Radiation shield including removable portion. 3,436,544, 4-1-69, Cl. 250-106.

Graf, Walter L.; and Medeiros, Francis Joseph, to Du Pont de Nemours, E. I., and Company. Method and apparatus for charging and combining continuous filaments of different polymeric composition to form a nonwoven web. 3,436,797, 4-8-69, Cl. 28-1.

Graf, Winfried, to Siemens Aktiengesellschaft. Circuit arrangement for the transmission of telegraph messages over storage communication systems. 3,448,213, 6-3-69, Cl. 178-17.5

Grafe, Wolfgang: *See—*
Otterbach, Gerd; Grafe, Wolfgang; and Kessler, Reinhard,3,424,286.

Graff, Eugene A.: *See—*
Ropp, Richard C.; and Graff, Eugene A.,3,420,861.

Graff, Harry J.: *See—*
Baumgartner, Robert G.; and Graff, Harry J.,3,466,380.

Graff, Jerry C., to Schlumberger Technology Corporation. Well tool valve actuators. 3,442,327, 5-6-69, Cl. 166-152.

Graff, Jerry C., to Schlumberger Technology Corporation. Apparatus for preventing unthreading of members in a well bore. 3,475,040, 10-28-69, Cl. 285-89.

Graff, Louis: *See—*
Pascaud, Claude; and Graff, Louis,3,450,524.

Graff, Peter; and Bottcher, Peter, to Feldmuhle Aktiengesellschaft. Disposable curtain. 3,434,525, 3-25-69, Cl. 160-388.

Graff, Roderich; Reichl, Karl Johann; Butz, Josef; and Pausch, Karl, to Deutsche Tafelglas Aktiengesellschaft. Apparatus for producing molded plastic goods. 3,477,894, 11-11-69, Cl. 156-459.

Graff, Stanley F. Attachment for a shoe nailing machine. 3,464,615, 9-2-69, Cl. 227-154.

Graff, William A., to General Electric Company. Coating glasses for electrical devices. 3,441,422, 4-29-69, Cl. 106-53.

Graff, William P.: *See—*
Tregay, John L.; and Graff, William P.,3,437,410.

Grafham, Denis R., to General Electric Company. Alternating current power control circuit. 3,466,529, 9-9-69, Cl. 323-22.

Grafham, Denis R., to General Electric Company. Sequential flasher circuits. 3,484,626, 12-16-69, Cl. 307-293.

Grafingholt, Alfred, to Hesser, Fr., Machinenfabrik, A.G. Method of producing filled and sealed packages. 3,442,061, 5-6-69, Cl. 53-22.

Graflex, Inc.: *See—*
Hartjen, Raymond H., 3,451,142.
King, Charles R.; and Sanderson, William R., 3,421,424.
Schreckendgust, Jay G., 3,449,631.
Schreckendgust, Jay G., 3,476,029.

Grafslund, Charles W. Shipping container for bulky items. 3,424,364, 1-28-69, Cl. 229-23.

Grafstein, Daniel, to General Precision systems, Inc. Temperature responsive galvanic cell. 3,440,101, 4-22-69, Cl. 136-83.

Grafstein, Daniel; Bobinski, Jack; and Fein, Marvin M., to Thiokol Chemical Corporation. Carboranyl-and carboranylalkylene magnesium halides and the preparation thereof. 3,458,580, 7-29-69, Cl. 260-606.5

Graft, David John, to British Telecommunications Research Limited. Fluid control devices. 3,468,342, 9-23-69, Cl. 137-625.66

Graft, Robert W.: *See—*
Lukawich, Joseph J.; and Graft, Robert W.,3,461,737.

Grage, Casper R., to Continental Granite Corp. Wheel for wire type stone cutting saws. 3,434,362, 3-25-69, Cl. 74-230.7

Grage, Claus R.: *See—*
Striebel, Frederick L.; and Grage, Claus R.,3,424,101.

Gragerson, Kennith L. Surface and/or ground embedded pickers. 3,431,979, , Cl. 171-63.

Graham, Andrew Stuard, Jr., to Fleck Industries, Inc. Cup dispenser invertible to dispense cups of different sizes. 3,420,406, 1-7-69, Cl. 221-44.

Graham, Anthony. Rotary type device. 3,453,992, 7-8-69, Cl. 123-13.

Graham, Arthur Kenneth: *See—*
Pinkerton, Henry Latta; Graham, Arthur Kenneth; and Ward, Alphonsus Edward, 3,463,215.

Graham, Arthur Kenneth: *See—*
Pinkerton, Henry Latta; Graham, Arthur Kenneth; and Ward, Alphonsus Edward,3,463,215.

Graham, Arthur; and Stanley, Lorne R., to Free-Flow Packaging Corporation, mesne. Free-plowing packing material of low bulk density. 3,481,455, 12-2-69, Cl. 206-46.

Graham, Boynton, to Du Pont de Nemours, E. I., and Company. Process for modifying polymers and boron hydride/ polymeric compositions produced therefrom. 3,454,623, 7-8-69, Cl. 260-475.

Graham, David R. Low profile rigid frame metal building. 3,477,183, 11-11-69, Cl. 52-73.

Graham, Donald E., to General Motors Corporation. System for operating alternating current induction type motors from a direct current potential source. 3,443,182, 5-6-69, Cl. 318-138.

Graham, Donald E., to General Motors Corporation. Circuit for producing fast-rise time pulses. 3,446,993, 5-27-69, Cl. 307-268.

Graham, Erwin W., to Pipe Machinery Company, The. Gauge and sliding supports therefor. 3,460,263, 8-12-69, Cl. 33-174.

Graham, Glen H.: *See—*
Schnebelen, David F.; Young, Warren L.; Blanchard, Robert R.; and Graham, Glen H.,3,467,732.

Graham, Glenna R.: *See—*
O'Keefe, Clarisse L.; and Graham, Glenna R.,3,443,260.

Graham, Gordon. Electronic calling and reply system. 3,441,858, 4-29-69, Cl. 325-55.

Graham, Gray. Building having inclined floor levels. 3,438,162, 4-15-69, Cl. 52-175.

Graham, Harold L.: *See—*
Kiel, Othar M.; and Graham, Harold L.,3,444,889.

Graham, Harold Nathanial: *See—*
Moore, Thomas Roscoe, Jr.; Graham, Harold Nathanial; and Gurkin, Martin,3,484,246.

Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin, to Lipton, Thomas J., Inc. Conversion of green tea using ozone. 3,484,247, 12-16-69, Cl. 99-76.

Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin, to Lipton, Thomas J., Inc. Alkaline conversion of green tea using hydrogen peroxide. 3,484,248, 12-16-69, Cl. 99-76.

Graham, Homer K. Metering machine for poultry insemination. 3,441,175, 4-29-69, Cl. 221-96.

Graham, Howard M.: *See—*
Gibson, Neil J.; and Graham, Howard M.,3,487,342.

Graham, Huber L.: *See—*
Dertouzos, Michael L.; and Graham, Huber L.,3,449,721.

Graham, James J., to Badger Manufacturing Company. Saponification glycerine refining by plural stage flash distillation with live steam. 3,427,230, 2-11-69, Cl. 203-75.

Graham, James L.: *See—*
Owens, James M.; Graham, James L.; and Pilsworth, Edward A.,3,469,987.

Graham, John J., to Schering Corporation. Method of making a closed filled plastic container. 3,461,010, 8-12-69, Cl. 156-145.

Graham, John M.: *See—*
Canfield, Brett J., 3,425,221.

Graham, John R.; and Mabson, Algernon A., to Kennecott Copper Corporation. Process and apparatus for mining deposits on the sea floor. 3,456,371, 7-22-69, Cl. 37-195.

Graham, John V.; Keeling, John B.; and Robinett, Leonard L. Brake released magnetic throttle holder. 3,439,783, 4-22-69, Cl. 192-3.

Graham, John W., to Esso Production Research Company. Self-bridging fractures. 3,481,401, 12-2-69, Cl. 166-280.

Graham, Joseph E. Method and apparatus for loading or unloading vehicle carrying railway cars. 3,442,223, 5-6-69, Cl. 104-48.

Graham, Joseph E. Method and apparatus for loading or unloading vehicle carrying railway cars. 3,448,693, 6-10-69, Cl. 104-48.

Graham Manufacturing Co., Inc.: *See—*
Berkeley, Frederick D., 3,422,887.

Graham, Ollie W., to Combustion Engineering, Inc. Safety lock for high pressure valves. 3,456,679, 7-22-69, Cl. 137-315.

Graham, Paul R.: *See—*
Ottinger, August F.; and Graham, Paul R.,3,436,309.

Graham, Paul R.; and Ottinger, August F., to Monsanto Company. Maleic interpolymer-starch-rosin sizes. 3,468,823, 9-23-69, Cl. 260-17.4

Graham, Paul W. L., to Owens-Illinois, Inc. Method of strengthening glass. 3,473,906, 10-21-69, Cl. 65-30.

Graham, Phillip. Drafting machine. 3,431,651, 3-11-69, Cl. 33-18.

Graham, Phillip. Flexible forms for building construction. 3,467,354, 9-16-69, Cl. 249-13.

Graham, Richard H.; and Wingfield, Edward C., to United Aircraft Corporation. Electron reflection seam tracker. 3,426,174, 2-4-69, Cl. 219-121.

Graham, Richard K.: *See—*
Arthur, John R.; Pool, James L.; and Graham, Richard K.,3,457,504.

Graham, Robert C., to Wood Industries, Inc. Apparatus for preparing planographic offset printing plates. 3,448,720, 6-10-69, Cl. 118-109.

Graham, Robert D.: *See—*
Ricard, Jacques L.; Graham, Robert D.; and Mothershead, John S.,3,464,782.

Graham, Robert L.; Fachini, Robert M.; and Kenna, Fenton L., Jr., to International Harvester Company. Bale wagon. 3,478,898, 11-18-69, Cl. 214-6.

Graham, Robert P.; Hart, Marcus R.; and Morgan, Arthur I., Jr., to United States of America, Agriculture. Process for preparing a protein-fortified cereal product. 3,450,540, 6-17-69, Cl. 99-83.

Graham, Shirley Leonard. Liquid level indicator. 3,462,753, 8-19-69, Cl. 340-244.

Graham, Talford W., to Eastman Kodak Company. Tank mixing by pump circulation. 3,428,061, 2-18-69, Cl. 137-1.

Graham Transmissions, Inc.: *See—*
Alsch, Richard E., 3,424,018.

Graham, Vincent A. Fish skinning device. 3,429,000, 2-25-69, Cl. 17-7.

Graham, William A.; and Green, Allan Kay, to Filbert, J. H., Inc. Rotary code dater with package blank feeder. 3,463,083, 8-26-69, Cl. 101-232.

Graham-Enock Manufacturing Co. Limited: *See—*
Hudson, Clifford Harold; Ashton, Thomas Richard; Cottle, Victor Claude Herbert; and Jackson, David, 3,466,850.

Graham-White Sales Corporation: *See—*
Frantz, Virgil L., 3,455,588.

Grahame, Frederick W.: *See—*
Rayno, Glenn D.; Grahame, Frederick W.; and Paul, Carl E.,3,444,602.

Grahek, Ted A.: *See—*
Blankenhorn, Charles F.; and Grahek, Ted A.,3,454,503.

Grahmann, Bernd, to Siemens Aktiengesellschaft. Method and device for determining and measuring changes in the shape of nuclear reactor fuel elements. 3,443,317, 5-13-69, Cl. 33-174.

Graig & Seeley, Limited: *See—*
Davis, James H.; Dobie, John D.; and Flockhart, Maxwell G., 3,437,415.

Grainger, William G.; and Sanders, Richard C., to Western Electric Company, Incorporated. Apparatus for transferring articles. 3,456,813, 7-22-69, Cl. 214-1.

Grakauskas, Vytautas; and Baum, Kurt, to Aerojet-General Corporation. N-fluoro-N-nitroamine compounds and method of preparation. 3,423,419, 1-21-69, Cl. 260-308.

Grall, Francois Bernard Marie; and Dalle, Michel Pierre Yvon, to Ugine Kuhlmann. Depilation using dichromate and strong acid. 3,482,924, 12-9-69, Cl. 8-94.16

Gram, Hans, to Brodrene Gram A/S. Multiple mold for a freezing machine. 3,483,712, 12-16-69, Cl. 62-356.

Gram, Martin M.: *See—*
Bussenberger, Max E.; Anderson, Dennis H.; and Gram, Martin M.,3,442,120.

Gramar Corporation: *See—*
Jewell, Rowan C., 3,467,261.

Gramera, Robert E.; and Caimi, Ronald J., to Corn Products Company. Cyclodextrin polyethers and their production. 3,459,731, 8-5-69, Cl. 260-209.

Gramera, Robert E.; and Le Roy, David H., to Corn Products Company. Starch derivatives. 3,464,974, 9-2-69, Cl. 260-233.3

Grames, Lloyd Donald, to Air Preheater Company, Inc., The. Double dimpled surface for heat exchange plate. 3,463,222, 8-26-69, Cl. 165-10.

Gramor Chemicals, Inc.: *See—*
Ellerbrook, Harry L.; and Morgana, Morley, 3,429,924.

Gramse, Harold E., to Pullman Incorporated. Refrigeration arrangement. 3,447,336, 6-3-69, Cl. 62-239.
Gramse, Harold E., to Pullman Incorporated. Refrigeration arrangement. 3,464,222, 9-2-69, Cl. 62-45.
Gran, Alfred A.; and Lang, Ronald, to United States of America, National Aeronautics and Space Administration. Venting device for pressurized space suit helmet. 3,473,165, 10-21-69, Cl. 2-6.
Granan, John R.; and Kumpitsch, Robert C., to General Electric Company. All-hydraulic control system responsive to electrical command signals. 3,485,140, 12-23-69, Cl. 91-388.
Granat, Zigmund E. Drills. 3,447,616, 6-3-69, Cl. 175-394.
Granata, Peter C.: *See—*
Granata, Peter C., Jr.; Siegal, Burton L.; and Zeissler, Edward J., 3,472,978.
Granata, Peter C., Jr.; Andrychowski, Edward P.; and Pantaleo, Carles A. Mechanism for releasing and quickly reengaging clutches. 3,446,324, 5-27-69, Cl. 192-99.
Granata, Peter C., Jr.; Siegal, Burton L.; and Zeissler, Edward J., 50% to Granata, Peter C., and 50% to Andrychowski, Edward. Memory and control device with disc contact plates on a linearly movable shaft that are adjustable with respect to the shaft. 3,472,978, 10-14-69, Cl. 200-52.
Granatek, Alphonse P.: *See—*
Granatek, Edmund S.; and Granatek, Alphonse P.,3,425,962.
Granatek, Edmund S.; and Granatek, Alphonse P.,3,452,138.
Granatek, Alphonse P.; and De Murio, Michael P., to Bristol-Myers Company. Chewable tablets of antibacterial agents. 3,459,858, 8-5-69, Cl. 424-227.
Granatek, Edmund S.; and Granatek, Alphonse P., to Bristol-Meyers Company. Salt of a diethylaminoethyl cross-linked dextran anion exchanger. 3,425,962, 2-4-69, Cl. 260-2.1
Granatek, Edmund S.; and Granatek, Alphonse P., to Bristol-Myers Company. Urea-containing chewable antacid tablets. 3,452,138, 6-24-69, Cl. 424-155.
Granath, John W.: *See—*
Peterson, Seymour A.; and Granath, John W.,3,439,651.
Granath, Kirsti Annikki: *See—*
Flodin, Per Gustaf Magnus; Granath, Kirsti Annikki; Ingelman, Bjorn Gustaf-Adolf; and Johansson, Christina,3,453,364.
Granber, Mauritz L.; and Kiesling, Charles A., to Sperry Rand Corporation. Digital data CRT display system. 3,466,645, 9-9-69, Cl. 340-324.
Granberg, Helge O.: *See—*
Elliott, James Franklin; Korzekwa, Samuel M.; and Granberg, Helge O.,3,453,862.
Granberg, Mauritz L.; and Stoffel, Jerome J., to Sperry Rand Corporation. Constant velocity beam deflection control responsive to digital signals defining length and endpoints of vectors. 3,434,135, 3-18-69, Cl. 340-324.
Granberry, Doyle S.; McCalip, Robert L.; and Lovelace, Byron K., to Texas Instruments Incorporated. Method of making diffused semiconductor devices. 3,431,636, 3-11-69, Cl. 29-578.
Granbery, John: *See—*
Greenblum, Carl; Buegler, Robert J.; McCarroll, Joseph F.; Avakian, Emik A.; and Granbery, John,3,484,748.
Grancic, Ivan: *See—*
Hojnos, Jan; and Grancic, Ivan,3,471,263.
Granco Equipment, Inc.: *See—*
Gentry, Charles B., 3,455,433.
Gentry, Charles B.; and Scanlon, Robert M., 3,484,086.
Scanlon, Robert M., 3,469,675.
Grancon, Michel, to Societe Industrielle et Commerciale des Automobiles Peugeot, and Regie Nationale des Usines Renault. Brake installation. 3,481,653, 12-2-69, Cl. 303-21.
Grand Rapids Hardware Manufacturing Co.: *See—*
Teggelaar, Claude; and De Bruyn, William T., 3,466,806.
Grand Valley Machine & Tool Co.: *See—*
Barrett, Cedric A.; and Phillips, William, 3,468,336.
Grand-Clement, Anne-Marie: *See—*
Carpentier, Serge; Delarue, Roger; Francois, Henri; Grand-Clement, Anne-Marie; Portal, Guy; and Soudain, Georges,3,449,136.
Grande, Joseph A., Jr. Cleaning pad. 3,460,182, 8-12-69, Cl. 15-227.
Grandel, Leonard F.: *See—*
Skelley, John W.; and Grandel, Leonard F.,3,433,088.
Grandet, Louis: *See—*
Garlet, Robert; and Grandet, Louis,3,432,266.
Grandi, Giorgio Adolfo. Device for the formation of the weft in bobbin-less shuttle looms. 3,470,919, 10-7-69, Cl. 139-16.
Grandia, Willem A.M.: *See—*
Mitchell, Hugh A.; and Grandia, Willem A.M.,3,474,664.
Grandinetti, Attilio, to Electrographic Corporation. Electrotype method and apparatus. 3,484,326, 12-16-69, Cl. 156-582.
Grandinetti, Attilio; Curd, Ralph B.; and Dimen, James, to Electrographic Corporation. Method of making composite printing plate. 3,424,635, 1-28-69, Cl. 156-150.
Grandinetti, Edward M., to Clairol Incorporated, mesne. Hair roller heating apparatus. 3,473,005, 10-14-69, Cl. 219-222.
Grandio, Philip, Jr.: *See—*
Boyd, Joe M.; Grandio, Philip, Jr.; and Lobb, James R.,3,438,741.
Grandjean, Charles Henri Emile: *See—*
Dejean, Jacques Henri; and Grandjean, Charles Henri Emile,3,459,898.
Grandjean, Philippe: *See—*
Monnier, Robert; and Grandjean, Philippe,3,442,622.
Grandy, Andrew J. Wire gun. 3,470,861, 10-7-69, Cl. 124-18.
Grandy, Andrew J.; Spinelli, Angelo S.; De Mesquita, Seymour; and Batezell, Alfred P., to United States of America, Army. Adapter assembly for magazine containing blank cartridges. 3,465,463, 9-9-69, Cl. 42-50.
Grane, Henry R.: *See—*
Bitar, Louie S.; and Grane, Henry R.,3,480,666.
Grane, Henry R., to Atlantic Richfield Company. Method for the decomposition of octane degrading components present in tertiary butyl alcohol- gasoline additive. 3,474,151, 10-21-69, Cl. 260-643.
Grane, Henry R., to Atlantic Richfield Company. Isobutane oxidation. 3,478,108, 11-11-69, Cl. 260-610.
Granek, Herman H. Article of footwear including cross-strap. 3,482,337, 12-9-69, Cl. 36-11.5
Granek, Herman H. Article of footwear including vamp. 3,482,338, 12-9-69, Cl. 36-11.5
Granfors, Ernest A.; Loveless, Don L.; Boyle, Charles F.; and Kompanek, Harry W., to Sparton Corporation. Directional sonar system. 3,444,508, 5-13-69, Cl. 340-2.
Grangaard, Donald H., to Kimberly-Clark Corporation. Electrochemical process of producing peroxide solutions and porous electrode therefor. 3,454,477, 7-8-69, Cl. 204-84.
Grangaard, Donald H., to Kimberly-Clark Corporation. Paraffin-active carbon electrode. 3,459,652, 8-5-69, Cl. 204-294.
Grangaard, Donald H., to Kimberly-Clark Corporation. Process for alkaline peroxide solution production including alkali concentration control. 3,462,351, 8-19-69, Cl. 204-83.
Grangaard, Donald H., to Kimberly-Clark Corporation. Binder containing electrode for electrochemical processes. 3,477,940, 11-11-69, Cl. 204-290.
Grangaard, George H., itaCo. Spelling and reading aid game. 3,422,549, 1-21-69, Cl. 35-71.
Grangaard, Orrin H., Jr., to Honeywell Inc. Self-oscillating impedance measuring loop. 3,444,738, 5-20-69, Cl. 73-304.
Grangaard, Orrin H., Jr., to Honeywell Inc. Variable gain amplifiers. 3,451,006, 6-17-69, Cl. 330-69.
Grange, Arthur Savage; and Paton, John McDougall, to Torrington Company, The. Separating means for pillow block bearings. 3,476,450, 11-4-69, Cl. 308-74.
Grange, Arthur: *See—*
Goodman, John E.; and Grange, Arthur,3,468,517.
Grange, Bernard; Long, Charles-Jean; Jugue, Bernard; and Mallet, Roger, to French State, represented by the Minister of Armed Forces, Ministerial Delegation for Armament, Technical Direction of Land Weapons, Technical Experiment Establishment of Anges. Amphibious crossing equipments. 3,446,176, 5-27-69, Cl. 115-1.
Grange Chemicals Limited: *See—*
Oldham, Wilfred John; and Orr, John Scott, 3,422,162.
Grange, Howard L. Device for clamping and handling articles. 3,443,831, 5-13-69, Cl. 294-67.
Grange, Raymond A., to United States Steel Corporation. Thermomechanical treatment of steel. 3,423,252, 1-21-69, Cl. 148-12.
Grange, Raymond A., to United States Steel Corporation. Method of thermomechanically annealing steel. 3,459,599, 8-5-69, Cl. 148-12.
Granger Associates: *See—*
Egan, Raymond D.; and Ames, John W., 3,487,312.
Hoover, William George, 3,454,916.
Pratt, David S., 3,443,230.
Granger, Clifford E., to RCA Corporation. Current pulse driver with means to steepen and stabilize trailing edge. 3,470,391, 9-30-69, Cl. 307-270.
Granger, Walter J. Camper. 3,442,549, 5-6-69, Cl. 296-23.
Granieri, Michael S., Jr.: *See—*
Eannarino, Joseph M.; and Granieri, Michael S., Jr.,3,435,613.
Eannarino, Joseph M.; and Granieri, Michael S., Jr.,3,446,214.
Granite Mill & Texture Co.: *See—*
Lyman, Hugh M., Jr., 3,450,451.
Granite State Machine Company, Inc.: *See—*
Richer, Donald R., 3,470,618.
Graniteville Company: *See—*
Converse, Sherman; and McKeown, Calvin M., 3,463,690.
DeLoach, James R., 3,453,757.
Granito, Gerry D.: *See—*
Calta, Salvatore A.; Carlson, Harry A.; Granito, Gerry D.; Kaumeyer, Lynn W.; Marcotte, Alphonse U.; and Messina, Benedicto U.,3,447,135.
Grannells, Richard T. Brush for electrical devices. 3,439,206, 4-15-69, Cl. 310-247.
Granny Goose Foods, Inc.: *See—*
Nevitt, John, 3,485,359.

Granqvist, Carl Erik, to AGA Aktiebolag. High-frequency tuning device. 3,422,379, 1-14-69, Cl. 333-82.
Granqvist, Carl-Erik, to AGA Aktiebolag. Rotation-responsive voltage source. 3,430,500, 3-4-69, Cl. 74-5.4
Granqvist, Carl-Erik, to AGA Aktiebolag. Frequency control circuit transforming phase angle into frequency. 3,449,669, 6-10-69, Cl. 324-82.
Granqvist, Carl-Erik, to AGA Aktiebolag. Apparatus for generating an angle-representative voltage. 3,480,770, 11-25-69, Cl. 235-189.
Granryd, Eric G.U., to Gas Developments Corporation. Heat-actuated regenerative compressor system. 3,474,641, 10-28-69, Cl. 62-498.
Granser, Josef: *See*—
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard,3,483,807.
Granstrom, Olof Alvar: *See*—
Fredriksson, Per Sven Engelbrekt; and Granstrom, Olof Alvar,3,451,123.
Grant, Arthur F., to Towmotor Corporation. Compensator valve for hydrostatic transmission. 3,451,218, 6-24-69, Cl. 60-52.
Grant, Arthur F., to Towmotor Corporation. Control response valve for hydrostatic transmission. 3,463,087, 8-26-69, Cl. 103-38.
Grant, Arthur F.; and Eggers, Robert G., to Towmotor Corporation. Material handling pallet. 3,430,585, 3-4-69, Cl. 108-51.
Grant, Arthur R.: *See*—
Eggers, Robert G.; and Grant, Arthur R.,3,465,649.
Eggers, Robert G.; and Grant, Arthur,3,448,634.
Grant, Charles H., to Dow Chemical Company, The. Dry explosive composition containing particulate metal of specific mesh and gauge. 3,432,371, 3-11-69, Cl. 149-21.
Grant, Charles H., to Dow Chemical Company, The. Method for preparing gelled slurry explosive compositions containing distinct liquid and solid phases. 3,475,238, 10-28-69, Cl. 149-109.
Grant, Charles H.; and Slykhouse, Thomas E., to Dow Chemical Company, The. Explosive composition comprsing a salt component contiguous to an over-fueled salt component. 3,462,324, 8-19-69, Cl. 149-2.
Grant, David; and Van Wazer, John R., to Monsanto Company. Process for the preparation of tetraorgano germanes. 3,442,921, 5-6-69, Cl. 260-429.
Grant, Dwight W.: *See*—
Evans, James G.; and Grant, Dwight W.,3,466,545.
Grant, Dwight W.; and Leafer, Robert M., to Bell Telephone Laboratories, Incorporated. Temperature compensating inductor and circuit. 3,471,815, 10-7-69, Cl. 336-83.
Grant, F. A.: *See*—
Grant, Frank A., 3,440,795.
Grant, Foster R.; and Torti, Maurice L., Jr., to National Research Corporation. Method of making brazed composite tubing for heat exchangers used in corrosive fluids. 3,426,420, 2-11-69, Cl. 29-474.5
Grant, Frank A., to Grant, F. A., doing business as Hoefer Machine Works, mesne. Process of applying flexible cover to a container. 3,440,795, 4-29-69, Cl. 53-42.
Grant, Frederic F., to Astro-Science Corporation, mesne. Variable ratio drive. 3,446,088, 5-27-69, Cl. 74-190.5
Grant, Gerald E., to Caterpillar Tractor Company. Operators seat assembly. 3,453,025, 7-1-69, Cl. 297-313.
Grant, John C., to Jackson, Byron, Inc. Pipe wiper. 3,466,693, 9-16-69, Cl. 15-210.
Grant, John C., to Jackson, Byron, Inc. Pipe spraying device. 3,475,781, 11-4-69, Cl. 15-210.
Grant, John W.: *See*—
Else, John D.; and Grant, John W.,3,481,573.
Grant, Louis A., Inc.: *See*—
Grant, Louis A., 3,458,396.
Grant, Louis A.; and Bickerstaff, William H., 3,471,888.
Grant, Louis A., to Grant, Louis A., Inc. Demolition machine. 3,458,396, 7-29-69, Cl. 173-35.
Grant, Louis A.; and Bickerstaff, William H., to Grant, Louis A., Inc., mesne. Soaking pit chipper. 3,471,888, 10-14-69, Cl. 15-104.07
Grant, Louis R., Jr.: *See*—
Wagner, Ross L.; Grant, Louis R., Jr.; and Gunderloy, Frank C., Jr.,3,484,315.
Grant, Melvin M.: *See*—
Michalke, Richard E.; Valle, Joseph; and Grant, Melvin M.,3,458,875.
Grant, Mervyn Stuart: *See*—
Bowie, Raymond Alexander; Grant, Mervyn Stuart; and Jones, William Glynne Moss,3,463,779.
Grant, Michael F., to Industrial Nucleonics Corporation. Wide frequency range single-control oscillator. 3,467,861, 9-16-69, Cl. 324-61.
Grant, Michael P.: *See*—
Jaggers, Henry T.; and Grant, Michael P.,3,443,218.
Grant, Munro M., to Ohio Athletic Specialty Company, The. Sponge rubber scrimmage caps. 3,435,460, 4-1-69, Cl. 2-3.
Grant, Nicholas J. Dispersion strengthening of metals and alloys. 3,434,830, 3-25-69, Cl. 75-206.
Grant, Norman H.: *See*—
Alburn, Harvey E.; and Grant, Norman H.,3,455,783.
Alburn, Harvey E.; and Grant, Norman H.,3,455,784.
Clark, Donald E.; and Grant, Norman H.,3,471,475.
Grant, Norman H.; Alburn, Harvey E.; and Clark, Donald E., to American Home Products Corporation. α-Aminoacyl-τ-aminocarboxylic acids. 3,487,105, 12-30-69, Cl. 260-514.
Grant, Norman H.; Alburn, Harvey E.; and Fenichel, Ricard L., to American Home Products Corporation. N-mercaptosuccinoylinsulin and N-(lower) alkanoylmercaptosuccinoylinsulin. 3,481,917, 12-2-69, Cl. 260-112.7
Grant, Nye. Method and apparatus for treating digestion tank supernatant liquor. 3,464,918, 9-2-69, Cl. 210-8.
Grant Oil Tool Company: *See*—
Leathers, Clarence H., 3,483,885.
Grant Pulley and Hardware Corporation: *See*—
Del Vecchio, Joseph T., 3,462,203.
Stein, Robert R.; and Coe, Stanley H., 3,463,433.
Grant, Ralph M., to GCOptronics, Inc., mesne. Method and apparatus of holographic plotting. 3,445,855, 5-20-69, Cl. 346-1.
Grant, Raymond Edwin. Forming tools. 3,460,371, 8-12-69, Cl. 72-450.
Grant, Richard. Bowler's finger brace. 3,421,761, 1-14-69, Cl. 273-54.
Grant, Rixwill S.: *See*—
Eigenmann, Gustav A. A.; and Grant, Rixwill S.,3,486,272.
Grant, Rixwill S., to Wonder Door Holdings (Proprietary) Limited. Hinges and closures embodying such hinges. 3,474,569, 10-28-69, Cl. 49-192.
Grant, Ronald D.; and Mayes, Paul E., to JFD Electronics Corporation, mesne. Multiple mode operational antennas employing reactive elements. 3,454,950, 7-8-69, Cl. 343-751.
Grant, Ronald D.: *See*—
Mayes, Paul E.; and Grant, Ronald D.,3,466,655.
Grant, Russell W., to Mohawk Data Sciences Corporation. Electrolytic bath for magnetic deposition. 3,463,708, 8-26-69, Cl. 204-43.
Grant, Sidney. Hypodermic syringe. 3,474,787, 10-28-69, Cl. 128-218.
Grant, Walter Lawrence, to Atomic Energy Board. Fuel element assembly for a nuclear reactor. 3,420,738, 1-7-69, Cl. 176-72.
Grant, Walter Lawrence, to Atomic Energy Board. Method of containing and withdrawing fuel from the fuel space in a nuclear reactor. 3,481,831, 12-2-69, Cl. 176-31.
Grant, Whitney I.: *See*—
Kocher, Erich J.; and Grant, Whitney I.,3,478,533.
Grant, William Henry , Jr. Trailer hitch lock. 3,434,741, 3-25-69, Cl. 280-507.
Granteer, David L.: *See*—
Myers, William C.; and Granteer, David L.,3,443,151.
Grantham, Charles R.: *See*—
Grantham, Frederick W., 3,443,323.
Grantham, Frederick W., 1/3 to Grantham, Paulette Grantham, Frederick, III, and Grantham, Charles R. Laundry dryer drum with external surface cleaning means. 3,443,323, 5-13-69, Cl. 34-19.
Grantham, Frederick W. Laundry folder. 3,452,979, 7-1-69, Cl. 270-62.
Grantham, Frederick W. Laundry extractor. 3,460,363, 8-12-69, Cl. 68-241.
Grantham, Frederick W. Laundry folder. 3,462,138, 8-19-69, Cl. 270-62.
Grantham, Leroy F., to North American Rockwell Corporation. Two-stage regeneration of absorbent for sulfur oxides. 3,438,728, 4-15-69, Cl. 23-181.
Grantham, Leroy F., to North American Rockwell Corporation. Sulfur production using carbon oxide regenerant. 3,438,734, 4-15-69, Cl. 23-224.
Grantham, Leroy F.; and Larsen, Christian M., to North American Rockwell Corporation. Sulfur production using carbon regenerant. 3,438,733, 4-15-69, Cl. 23-224.
Grantham, Max Edward: *See*—
Woor, Denis Frederick; Stripp, Peter William; and Grantham, Max Edward,3,456,761.
Grantham, Paulette Grantham, Frederick, III: *See*—
Grantham, Frederick W., 3,443,323.
Grantham, Paulette. Laundry sorting, according to size, and folding. 3,467,370, 9-16-69, Cl. 270-85.
Grantham, William L., to United States of America, National Aeronautics and Space Administration. Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle. 3,473,116, 10-14-69, Cl. 324-58.5
Grantom, Charles A., to King Oil Tools. Self-adjusting packing assembly. 3,433,488, 3-18-69, Cl. 277-9.
Granville-Phillips Company: *See*—
Bills, Daniel G.; Denison, Dean R.; and Warren, Keith A., 3,427,432.
Morrison, Charles F., 3,427,858.

Graper, William, to Eaton Yale & Towne, Inc. Cam driven Compressor. 3,456,874, 7-22-69, Cl. 230-185.
Graphic Sciences, Inc.: *See—*
Cohen, Milton S., 3,476,209.
'Graphicart' Internationale Ausrustungsgesellschaft fur Graphische Kunst AG:*See—*
Guggisberg, Ernst, 3,420,516.
Guggisberg, Ernst, 3,450,400.
Graphics International, Inc.: *See—*
Hunt, Waldo H., 3,468,055.
Grapp, Hans: *See—*
Nimtz, Klaus; Grapp, Hans; and Martens, Adolf,3,430,431.
Grappo, Michael A.: *See—*
Wright, Ralph J., 3,456,678.
Grard, Charles Camille Dominique: *See—*
Chabardes, Pierre Jean Antonine; Grard, Charles Camille Dominique; and Thiers, Michel Pierre Francois,3,444,235.
Chabardes, Pierre; Gandilhon, Pierre; Thiers, Michel; and Grard, Charles,3,449,387.
Grasenick, Fritz; Geymayer, Wolfgang; and Aldrian, Adolf. Microtome using liquid refrigerant. 3,462,969, 8-26-69, Cl. 62-373.
Graser, Earl J., to Olinkraft, Inc. Automatically selective lock device. 3,478,951, 11-18-69, Cl. 229-40.
Graser, Earl J.; and Sherman, Earle C., to Olinkraft, Inc. Wrap-around package and retainer member. 3,451,543, 6-24-69, Cl. 206-65.
Graser, Fritz; and Kiefer, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 1-Amino-4-cyclopentadienylamino-2-anthraquinone sulfonic acids. 3,461,141, 8-12-69, Cl. 260-371.
Graser, Michael, Jr.: *See—*
Good, William E.; Graser, Michael, Jr.; and Vanderlaan, Henry J.,3,450,462.
Graser, Michael, Jr.; and True, Thomas T., to General Electric Company. Deformable medium color projection apparatus. 3,429,996, 2-25-69, Cl. 178-7.5
Grassbu, Robert Keith, to Ronson Products Limited. Process for electroplating localized areas by means of an electropainted resist. 3,481,842, 12-2-69, Cl. 204-38.
Grassel, Eugene E.; and Schoen, Donald W., to Donaldson Company, Inc. Fluid flow control apparatus. 3,429,335, 2-25-69, Cl. 137-487.5
Grasseler, George John, to G & G Engineering Corporation. Air processing system for vehicle cab. 3,472,147, 10-14-69, Cl. 98-12.
Grasselli, Robert K.: *See—*
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R.,3,431,292.
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R.,3,445,521.
Callahan, James L.; Milberger, Ernest C.; and Grasselli, Robert K.,3,427,343.
Grasselli, Robert K., to Standard Oil Company, The (Ohio). Method for the production of certain aromatic and hetero-aromatic aldehydes. 3,452,032, 6-24-69, Cl. 260-297.
Grasselli, Robert K.; and Callahan, James L., to Standard Oil Company, The (Ohio). Manufacture of aromatic aldehydes and nitriles. 3,435,061, 3-25-69, Cl. 260-465.
Grassl, Ferdinand O.: *See—*
Malmer, Clarence John; and Grassl, Ferdinand O.,3,477,951.
Grassl, Hugo H., to Bausch & Lomb Incorporated. Air bearing for photogrammetric tracing table. 3,437,168, 4-8-69, Cl. 180-125.
Grassl, Simmon. Support collar. 3,477,425, 11-11-69, Cl. 128-75.
Grassmann, Wolfgang: *See—*
Rohrborn, Hans-Joachim; Clausen, Heinrich; Grassmann, Wolfgang; and Valet, Gerhard,3,432,324.
Grate, Gertrude F. Nursing slip and combination maternity and nursing slip. 3,449,763, 6-17-69, Cl. 2-73.
Gratian, Joseph W., to General Dynamics Corporation. Frequency multiplication apparatus. 3,478,331, 11-11-69, Cl. 340-173.
Gratian, Joseph W., to General Dynamics Corporation. Ferroacoustic memory. 3,482,219, 12-2-69, Cl. 340-173.
Gratiot, Jacques: *See—*
Goyet, Daniel; and Gratiot, Jacques,3,430,798.
Gratrix, Alfred E., Sr.; and Earls, David E., to General Time Corporation. Remote signaling system. 3,430,222, 2-25-69, Cl. 340-286.
Gratton, Charles Peter: *See—*
Stamford, Stanley; Terry, James Bernard; Gratton, Charles Peter; and May, William Charles,3,441,477.
Gratzmuller, Jean Louis. Safety valve intended mainly for electric batteries. 3,436,273, 4-1-69, Cl. 136-178.
Gratzmuller, Jean Louis. Cooling devices for supercharged internal combustion engines. 3,439,657, 4-22-69, Cl. 123-41.31
Gratzmuller, Jean Louis. Supercharged diesel motors. 3,450,109, 6-17-69, Cl. 123-27.
Gratzmuller, Jean Louis. Hydraulically-operated valve. 3,467,129, 9-16-69, Cl. 137-236.
Grau, Gerard: *See—*
Cholet, Jacques; Fail, Jean Pierre; Grau, Gerard; and Magneville, Pierre,3,444,953.
Grau, Richard: *See—*
Minciotti, Albert A.; and Grau, Richard,3,439,787.
Graubert, Seth: *See—*
Proud, Ralph A., Jr.; O'Brien, Richard C.; Graubert, Seth; and Goldstein, Theodore J.,3,470,539.
Graubremse GmbH: *See—*
Gruner, Hans; and Nicolay, Heinz, 3,439,958.
Grauer, Theodor; and Urwyler, Heinrich, to Geigy, J. R., A.G. Production of 1-N,N-dimethylcarbamoyl- 5-methyl-3-N,N-dimethyl-carbamoyloxy-pyrazole. 3,452,043, 6-24-69, Cl. 260-310.
Graulier, Maxime, to Produits Chimiques Pechiney-Saint-Gobain. Preparation of active alumina agglomerates of high mechanical strength. 3,480,389, 11-25-69, Cl. 23-143.
Gravdahl, Gunnar, to A/S Saba. Sanitary napkin. 3,424,163, 1-28-69, Cl. 128-290.
Grave, Dale L. Cleaning device. 3,431,582, 3-11-69, Cl. 15-321.
Grave, Lester A.: *See—*
Carlo, Louis David, 3,480,999.
Gravely, Oscar W., to Niagara Frontier Service, Inc. Radiation sensitive detection system for shopping carts. 3,457,423, 7-22-69, Cl. 250-223.
Gravenson, Guy F. Chromoclock. 3,439,492, 4-22-69, Cl. 58-1.
Graver, Richard B., to Ashland Oil & Refining Company. Carboxyl-terminated polyester and coating composition derived therefrom. 3,468,704, 9-23-69, Cl. 117-161.
Graver, Richard B., to Ashland Oil & Refining Company. Thermosetting polymers of unsaturated acetals. 3,468,857, 9-23-69, Cl. 260-80.3
Graver, Richard B.; Heidecker, Stephen C.; and Taft, David D., to Ashland Oil & Refining Company, mesne. Polymeric binders for electrophotographic coating applications. 3,481,735, 12-2-69, Cl. 96-1.5
Graver, Richard B.; and Sedgwick, Grant O., to Ashland Oil & Refining Company, mesne. Preparation of polycarboxylic acid resins using an organic sulfonic acid catalyst. 3,434,988, 3-25-69, Cl. 260-23.7
Graver, Richard B.; and Wallman, Walter A., to Ashland Oil & Refining Company, mesne. Resin compositions. 3,437,481, 4-8-69, Cl. 96-1.8
Graves, Bryan E., to Unipak, Inc. Steering control for remote control toys. 3,456,753, 7-22-69, Cl. 180-198.
Graves, Carl S.; and Graves, Earl D. Spare tire carrier. 3,428,200, 2-18-69, Cl. 214-454.
Graves, Donald C.: *See—*
Kruizenga, Jack R.; Graves, Donald C.; and Role, Harry,3,479,724.
Graves, Donald E.: *See—*
Daniels, Herbert E.; and Graves, Donald E.,3,428,809.
Graves, Earl D.: *See—*
Graves, Carl S.; and Graves, Earl D.,3,428,200.
Graves, Howard K., to Tuttle, H. W., & Company. Space heater construction. 3,449,552, 6-10-69, Cl. 219-530.
Graves, James Arthur, to General Electric Company. Getter for incandescent lamps and similar devices. 3,475,072, 10-28-69, Cl. 316-3.
Graves, John A.: *See—*
Albertine, Albert W.; and Graves, John A.,3,432,197.
Graves, John H., to Phillips Petroleum Company. Filter bag with attached encircling ring. 3,429,107, 2-25-69, Cl. 55-378.
Graves, Richard H.: *See—*
Tuggle, Ray; and Graves, Richard H.,3,454,464.
Graves, Roger E., Jr.: *See—*
Chamberlin, Henry S., Jr.; Graves, Roger E., Jr.; and Kelley, Joseph P.,3,454,942.
Graves, William F.: *See—*
Selden, Leonard Marvin; and Graves, William F.,3,441,656.
Walsh, Leonard; and Graves, William F.,3,446,484.
Gravesteijn, Jacobus Cornelis: *See—*
Vermeulen, Gerardus Antonius Wilhelmus; Broos, Jan; and Gravesteijn, Jacobus Cornelis,3,483,416.
Gravimetrics Incorporated: *See—*
Codina, Jorge G., 3,480,908.
Graviner (Colnbrook) Limited: *See—*
Collins, Jack Bertram, 3,485,099.
Gravisse, Philippe Edouard Leon Alexis. Safety barrier. 3,448,963, 6-10-69, Cl. 256-13.1
Grawey, Charles E., to Caterpillar Tractor Company. Post cure method for wire reinforced rubber hose. 3,441,644, 4-29-69, Cl. 264-346.
Grawey, Charles E.; Koch, Keith E.; Nelson, David V.; and Untz, Robert W., to Caterpillar Tractor Company. Tensioning device for helical wrapping. 3,486,317, 12-30-69, Cl. 57-3.
Grawey, Charles E.; and Loyd, Calvin D., to Caterpillar Tractor Company. Inertia welded hose couplings. 3,471,180, 10-7-69, Cl. 285-257.
Gray, Alexander: *See—*
Horwood, Norman; and Gray, Alexander,3,477,296.
Horwood, Norman; Gray, Alexander; and Nevill, James Irving,3,442,133.

Gray, Allan Poe; and Heitmeier, Donald E., to Mallinckrodt Chemical Works, mesne. Aminoalkylenenortricyclenes. 3,472,895, 10-14-69, Cl. 260-563.
Gray, Allan Poe; and Kraus, Harold, to Mallinckrodt Chemical Works, mesne. Certain 2(4-pyridyl-α,α-diphenylcyclopropanemethanols and intermediates therefor. 3,478,038, 11-11-69, Cl. 260-294.8
Gray, Alvin N.; Tamura, Yasuya; Shibata, Kojiro; and Nakayama, Reikichi. Method of manufacturing electric wires covered with plastics. 3,455,752, 7-15-69, Cl. 156-51.
Gray, Avrum G.: *See—*
Wideburg, Allen C.; and Steffens, James E., 3,465,449.
Gray, Avrum; Wayne, Harry A.; and Steffens, James E. Automatic starter for automobiles. 3,452,210, 6-24-69, Cl. 290-38.
Gray, Billy C. Oil transfer pump for vehicles. 3,470,767, 10-7-69, Cl. 74-710.
Gray, Bruce H.: *See—*
Campi, Anthony V.; Chapman, Robert E.; and Gray, Bruce H.,3,451,044.
Gray, Charles A. Drilling tool. 3,456,531, 7-22-69, Cl. 77-67.
Gray, Charles E. Folding bandsaw-disc sander. 3,480,051, 11-25-69, Cl. 144-1.
Gray Company, Inc.: *See—*
Eull, Marvin J., 3,427,987.
Hagfors, Gerald D., 3,437,273.
Russinik, Michael R., 3,429,508.
Gray Controls Corporation: *See—*
Gray, James, Jr., 3,468,477.
Gray, David C. Apparatus for chlorinating water. 3,481,857, 12-2-69, Cl. 204-272.
Gray, Donald I.; Hutchings, John H.; and Wohlert, Andrew M., to National Electronics, Inc. Regenerative gate thyristor construction. 3,486,088, 12-23-69, Cl. 317-235.
Gray, Donald M., deceased0 (by Gray, Laura B.; executrix). Cleaning, sorting and grading apparatus. 3,459,301, 8-5-69, Cl. 209-102.
Gray, Donald M.; Burhans, Hollis M.; and Gray, Wendell H., to W.G.B. Oil Clarifier, Inc. Dual, pleated element, filter cartridge. 3,476,249, 11-4-69, Cl. 210-188.
Gray, Dorian R., to Ford Motor Company. Process for ornamenting glass manufactured by the float glass process. 3,472,641, 10-14-69, Cl. 65-60.
Gray, Dorian R.: *See—*
Thompson, Robert J.; Boaz, Premakaran T.; Cholger, Herbert W.; Gray, Dorian R.; and Meyer, John H.,3,440,030.
Gray, Dudley, to Stewart-Warner Corporation. Facsimile system. 3,428,749, 2-18-69, Cl. 179-4.
Gray, Earl E., to Texas Instruments, Incorporated. Electrical cell vent valve. 3,484,301, 12-16-69, Cl. 136-178.
Gray, Elway P.: *See—*
Neubarth, William R., 3,461,614.
Gray, Floyd L., to General Electric Company. Film identification device having an electroluminescent panel built into a camera. 3,452,196, 6-24-69, Cl. 250-67.
Gray, Floyd L., to General Electric Company. X-ray image amplifier with means to tilt through vertical angles. 3,456,114, 7-15-69, Cl. 250-91.
Gray, Frank O.; and Pett, John F., to United States of America, Air Force. Pulse width modulated servo amplifier having rapid forward, stop, and reverse control. 3,458,789, 7-29-69, Cl. 318-207.
Gray, G. A., Company: *See—*
Koenig, Carl Fred, III, 3,484,064.
Gray, G. A., Company, The: *See—*
Staehle, Carl, 3,485,138.
Walter, John M., 3,484,065.
Gray, George I. Integral buttonholding mechanism. 3,444,832, 5-20-69, Cl. 112-158.
Gray, George W., to RCA Corporation. Vehicle detector. 3,457,547, 7-22-69, Cl. 340-38.
Gray Horwood Engineering Limited: *See—*
Horwood, Norman; Gray, Alexander; and Nevill, James Irving, 3,442,133.
Horwood, Norman; and Gray, Alexander, 3,477,296.
Gray Industries, Inc.: *See—*
Gray, Oscar S., 3,439,510.
Gray, Jack C.; and Cohan, Allan N. Method for preparing a cookie-like product. 3,446,623, 5-27-69, Cl. 99-1.
Gray, Jack; and Watson, George A., to Celanese Corporation. Process for making a splittable crimped tow. 3,439,394, 4-22-69, Cl. 28-72.
Gray, James H., to Rood, William E., Jr. Cotton cleaner. 3,467,991, 9-23-69, Cl. 19-203.
Gray, James H.: *See—*
Rood, William E., Jr.; McKinley, James E.; and Gray, James H.,3,425,097.
Gray, James J. Quickly detachable scraper blades. 3,477,520, 11-11-69, Cl. 172-719.
Gray, James, Jr., to Gray Controls Corporation. Voting machine. 3,468,477, 9-23-69, Cl. 235-50.
Gray, James M., Jr.: *See—*
Click, Gaylon T.; and Gray, James M., Jr.,3,466,707.
Gray, James W. Tool for assembling pipe sections. 3,486,215, 12-30-69, Cl. 29-237.
Gray, John W., to Ocean Systems, Inc. Rotary magnetic head record and playback system for rendering unintelligible speech intelligible. 3,485,960, 12-23-69, Cl. 179-100.2
Gray, Junior Merle, to Honeywell Inc. Control apparatus. 3,442,144, 5-6-69, Cl. 74-5.6
Gray, Larry, to United Aircraft Corporation. Low noise generation fan. 3,471,080, 10-7-69, Cl. 230-120.
Gray, Laura B.: *See—*
Gray, Donald M.,3,459,301.
Gray, Lee, Jr., to Texas Instruments Incorporated. High speed transfer printer. 3,424,082, 1-28-69, Cl. 101-40.
Gray, Leonard: *See—*
Speers, Samuel F.; Jacques, Norman L.; Guglielmi, Anthony C.; and Gray, Leonard,3,466,798.
Gray, Martin B.; de Haas, Thijs; and Perkett, Charles E., to General Dynamics Corporation. Receiver for information represented by differen- tial phase shift between different frequency tones. 3,445,593, 5-20-69, Cl. 178-67.
Gray, Martin B.: *See—*
De Haas, Thijs; Gray, Martin B.; and Welsh, Joseph P.,3,447,085.
Walker, Watson F.; de Haas, Thijs; and Gray, Martin B.,3,456,194.
Gray, Michael Richard, to Epsylon Research and Development Company Limited. Aircraft magnetic recording system having a recorder for crash data and a recorder for both crash data and flight conditions. 3,461,429, 8-12-69, Cl. 340-172.5
Gray, Oscar S., to Gray Industries, Inc. Treatment of red blood cells. 3,439,510, 4-22-69, Cl. 62-78.
Gray, Peter V.: *See—*
Taft, Ernest A., Jr.; and Gray, Peter V.,3,451,867.
Gray, Peter V., to General Electric Company. Method of producing field effect transistors. 3,479,234, 11-18-69, Cl. 148-187.
Gray, Raymond K.; and Wolniak, Stanley C., to Lock Inc. Container for a lock plug assembly. 3,438,484, 4-15-69, Cl. 206-46.
Gray, Reginald I., to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the. Radio-frequency interference guard (R.I.G.). 3,436,693, 4-1-69, Cl. 333-79.
Gray, Robert A., Jr.; and Shuler, James F., to Mueller Brass Co. Method and apparatus for making wrought metal branch fittings. 3,442,106, 5-6-69, Cl. 72-58.
Gray, Robert A., to Robertshaw Controls Company. Pneumatically operated mixing valve. 3,468;339, 9-23-69, Cl. 137-625.4
Gray, Robert D.; and Mayer, Simon E., to Houston Chemical Corporation. Process for the preparation of alkyl lead compounds. 3,442,923, 5-6-69, Cl. 260-437.
Gray, Robert D.; and Mayer, Simon E., to PPG Industries, Inc. Lead-alkali metal particles. 3,472,637, 10-14-69, Cl. 29-192.
Gray, Robert J.: *See—*
Parrent, William Russell; and Gray, Robert J.,3,447,408.
Gray, Robert P.; and Beal, John O., to Monterey Research Laboratory, Inc. Opposing force shock programmer. 3,485,083, 12-23-69, Cl. 73-12.
Gray, Roy A.; and Kruse, Carl W., to Phillips Petroleum Company. Production and/or recovery of primary haloalkanes. 3,426,086, 2-4-69, Cl. 260-652.
Gray, Russell A., to General Electric Company. Valve gear locking and emergency closing system. 3,441,040, 4-29-69, Cl. 137-36.
Gray, Samuel A., to Bell Aerospace Corporation. Pure fluid push-pull summing amplifier of the impact type. 3,426,780, 2-11-69, Cl. 137-81.5
Gray, Sheldon: *See—*
Wideburg, Allen C.; and Steffens, James E., 3,465,449.
Gray, Stephen B., to Sylvania Electric Products, Inc. Paper handling apparatus for machine reading systems. 3,422,251, 1-14-69, Cl. 235-61.11
Gray, Stephen B., to Sylvania Electric Products Inc. Distortion correction circuitry. 3,422,306, 1-14-69, Cl. 315-27.
Gray, Stephen B.; and Pick, George G., to Sylvania Electric Products, Inc. Amplitude comparator. 3,456,127, 7-15-69, Cl. 307-235.
Gray, Steven M. Alarm for vehicle safety belts. 3,462,731, 8-19-69, Cl. 340-52.
Gray, Thomas Edward Horace: *See—*
Hurst, Norman Ashcroft; Gray, Thomas Edward Horace; and Jones-Hinton, James,3,464,099.
Gray, Tommy L., to General Electrodynamics Corporation. Bourdon tube link. 3,452,600, 7-1-69, Cl. 73-411.
Gray, Tommy L., to General Electrodynamics Corporation. Wheel scale. 3,464,509, 9-2-69, Cl. 177-208.
Gray, Tommy L., to General Electrodynamics Corporation. Hydraulic weigher with torsion-counter- balanced summation bar. 3,481,414, 12-2-69, Cl. 177-209.
Gray Tool Company: *See—*
Cours, Donald V.; McGee, John K.; and Lafferty, Harold L., 3,462,821.
Crain, Robert L., 3,484,912.
Harwell, James M., Jr., 3,450,421.

Harwell, James M., Jr., 3,456,729.
Hill, Erwin F.; and Latham, Raymond E., 3,467,120.
Holbert, Marvin L., Jr.; and Slack, John, 3,478,822.
Slack, John, 3,450,202.

Gray, Trevor; and Neish, David Anthony, to Decca Limited. Doppler navigation apparatus. 3,480,954, 11-25-69, Cl. 343-8.

Gray, Wendell H.: *See*—
Gray, Donald M.; Burhans, Hollis M.; and Gray, Wendell H.,3,476,249.

Gray, Willard F. M.; and Nichols, Frank S., to General Electric Company. Coil winding of bare wire and separate insulation and method of making such coil. 3,427,578, 2-11-69, Cl. 336-206.

Graybill, George Richard: *See*—
Archer, Wesley L.; and Graybill, George Richard,3,467,722.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard,3,444,248.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard,3,452,108.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard,3,452,109.

Graybill, Paul J. Method of and apparatus for cleaning liquids. 3,450,264, 6-17-69, Cl. 210-137.

Grayling, Pieter J. Tool bar hitch. 3,424,476, 1-28-69, Cl. 280-443.

Grayson, Carl L.: *See*—
Chin, Leslie S. F.; and Grayson, Carl L.,3,439,402.

Grayson, Edward W.: *See*—
Bishop, Samuel N.; and Grayson, Edward W.,3,468,003.

Grayson, Martin, to American Cyanamid Company. Phosphonium salts having a reactive vinyl group or a precursor thereof as antistatic and flameproofing agents for cellulosic materials. 3,421,834, 1-14-69, Cl. 8-120.

Grayson, Martin; Keough, Patricia Tarpey; and Rauhut, Michael McKay, to American Cyanamid Company. Triorganophosphonium halides. 3,452,099, 6-24-69, Cl. 260-606.5

Grayson, Martin: *See*—
Rauhut, Michael M.; Borowitz, Grace B.; and Grayson, Martin,3,422,149.

Grayson, Richard D., to International Telephone and Telegraph Corporation. Solenoid pilot operated valve. 3,423,062, 1-21-69, Cl. 251-30.

Grayson, Richard D., to International Telephone and Telegraph Corporation, mesne. Fluid control apparatus. 3,446,227, 5-27-69, Cl. 137-66.

Grazen, Frank S.: *See*—
Gburek, John J.; Bryzinsky, Frank M.; and Grazen, Frank S.,3,474,065.

Grazen, Frank S.; Bryzinsky, Frank M.; and Kozma, Broni, to Hooker Chemical Corporation. Friction element comprising a phenol isobutyraldehyde condensate. 3,438,917, 4-15-69, Cl. 260-19.

Greacen, Edmund. Visual sighting device. 3,469,234, 9-23-69, Cl. 340-104.

Greacen, John A.; and Beresik, Lawrence S., to Carrier Corporation. Capacity control for absorption refrigeration systems. 3,426,548, 2-11-69, Cl. 62-101.

Greacen, John A.: *See*—
Dyre, Eddie L.; and Greacen, John A.,3,452,550.

Greasby, Michael John: *See*—
Rumsey, Kenneth George; and Greasby, Michael John,3,461,236.

Greasley, Eric Arthur, to Pressac Limited. Wall-mounted socket for jack plug. 3,439,312, 4-15-69, Cl. 339-128.

Greasley, Eric Arthur, to Pressac Limited. Vehicular lamp holder. 3,476,928, 11-4-69, Cl. 240-8.3

Greason, David M.; and Sabine, Hale J., to Owens-Corning Fiberglas Corporation. Acoustical panels. 3,422,920, 1-21-69, Cl. 181-33.

Greason, Thomas W. Method and apparatus for twisting yarn. 3,461,659, 8-19-69, Cl. 57-62.

Great Canadian Oil Sands Limited: *See*—
Baillie, Robert A.; and Malmberg, Earl W., 3,487,003.
Steinmetz, Ib, 3,466,240.

Great Lakes Aluminum Fabricators, Inc.: *See*—
Gordon, Alfred J., 3,477,091.

Great Lakes Biochemical Co., Inc.: *See*—
Stern, Robert M.; and Storrs, Arnold B., 3,483,032.

Great Lakes Carbon Corporation: *See*—
Bryan, Loren Aldro, 3,458,576.
Joo, Louis A.; and Snodgrass, Frank E., 3,423,300.
Joo, Louis A.; Hutchings, Le Roi E.; and Muller, Nathan W., 3,450,623.

Great Lakes Chemical Corporation: *See*—
Hobbs, William E., 3,454,654.

Great Lakes Runway & Engineering Company: *See*—
Thorson, John T., 3,461,353.

Great Plains Bag Co.: *See*—
Peterson, Thomas G.; and Pomerantz, Marvin A., 3,447,723.

Greatbatch, Wilson, to Medtronic, Inc. Cardiac implantable demand pacemaker. 3,478,746, 11-18-69, Cl. 128-421.

Greater Iowa Corporation, The: *See*—
Kugler, Uwe H., 3,427,066.
Whitfield, Joseph E., 3,477,595.

Greathouse, Carl F., 24 1/2% to Nicholson, Samuel C., and 24 1/2% to Greathouse, French. Drill attachment for cleaning paint applicators. 3,460,268, 8-12-69, Cl. 34-58.

Greathouse, French: *See*—
Greathouse, Carl F., 3,460,268.

Greathouse, Walton D.: *See*—
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H.,3,435,591.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H.,3,458,973.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H.,3,479,797.

Greaves, Melvin J.; and Werner, Tage, to McKee, Arthur G., & Company. Apparatus and method for supporting vessels. 3,431,691, 3-11-69, Cl. 52-223.

Greaves, Melvin J.; and Werner, Tage, to McKee, Arthur G., & Company. Apparatus for treatment of particulate material on moving support. 3,460,818, 0812-69, Cl. 266-21.

Greaves, Melvin J.; Werner, Tage; and Greenwalt, Richard B., to McKee, Arthur G., & Company. Agglomeration method and apparatus. 3,432,287, 3-11-69, Cl. 75-5.

Greb, Robert E.: *See*—
Bush, David L.; and Greb, Robert E.,3,483,097.

Grebbell, John: *See*—
Hambling, James Keith; and Grebbell, John,3,424,814.

Grebe, Chauncey L.; Minor, Ralph S., Jr.; and Shelden, Raymond G. Method and apparatus for determining camber in a moving strip. 3,428,818, 2-18-69, Cl. 250-219.

Grebe, John J. Combustion process. 3,449,913, 6-17-69, Cl. 60-204.

Grebe, Konrad. Roof support assembly of the type used on the longwall face of a coal seam. 3,438,209, 4-15-69, Cl. 61-45.

Grebe, Konrad. Cog driven rack rail locomotive. 3,452,683, 7-1-69, Cl. 105-29.

Grebe, Robert Karl; and Kreinberg, Earl Raymond, to AMP Incorporated. Electrical control system. 3,458,787, 7-29-69, Cl. 318-18.

Greber, Henry. Circuit breaker with conductive and insulating particles. 3,422,455, 1-14-69, Cl. 200-151.

Greber, Henry. Repeater thermostat. 3,444,496, 5-13-69, Cl. 337-91.

Greber, Henry. Aerial conductor. 3,448,222, 6-3-69, Cl. 174-42.

Greber, Henry. Gas discharge lamp with a movable baffle adjacent one electrode. 3,482,141, 12-2-69, Cl. 315-49.

Grebert, Roger Henri Ernest, to Societe Industrielle de Mechanique et de Materiel d'Equipment. Ball-type transmission apparatus. 3,436,130, 4-1-69, Cl. 308-6.

Greby, Daniel F., to Industrial Tectonics Inc. Roller retaining method for roller bearing separators. 3,445,907, 5-27-69, Cl. 29-148.4

Grechin, Vyacheslav Petrovich; Oreshnikov, Zakhar Alexeevich; and Milyaev, Boris Fedorovich. Vacuum induction casting plant without crucible. 3,460,608, 8-12-69, Cl. 164-251.

Greci, John J.: *See*—
Bascom, Hollis H.; Greci, John J.; and Jenkins, Richard G.,3,463,693.

Greek, Eugene, to American Flange & Manufacturing Co., Inc. Gasketing apparatus. 3,437,343, 4-8-69, Cl. 279-3.

Greek, Eugene; and Kokinda, George, to American Flange & Manufacturing Co., Inc. Method for lining container closures. 3,445,262, 5-20-69, Cl. 117-37.

Greco, Carl C., to Stauffer Chemical Company. Heterocyclic phosphorus compounds as stabilizers for poly-alpha-olefins. 3,422,058, 1-14-69, Cl. 260-45.8

Greco, Carl C., to Stauffer Chemical Company. Phosphorus esters of certain thiazole derivatives. 3,428,645, 2-18-69, Cl. 260-306.

Greco, Carl C., to Stauffer Chemical Company. Plasticized sulfur compositions. 3,466,179, 9-9-69, Cl. 106-19.

Greco, Carl C., to Stauffer Chemical Company. Process for preparing carboxylic acid thioanhydrides. 3,476,784, 11-4-69, Cl. 260-399.

Greco, Carl C.; and Mirviss, Stanley B., to Stauffer Chemical Company. Plasticizer for sulfur road marking material. 3,421,911, 1-14-69, Cl. 106-19.

Greco, Carl C.; and Mirviss, Stanley B., to Stauffer Chemical Company. Novel polymercaptan sulfur compositions. 3,453,126, 7-1-69, Cl. 106-19.

Greco, Carl C.: *See*—
Stamm, Walter A.; and Greco, Carl C.,3,477,933.
Stamm, Walter; Greco, Carl C.; and Beck, Thomas M.,3,466,307.

Greco, Frank C. All-purpose multiple hand tool. 3,462,780, 8-26-69, Cl. 7-14.1

Greco, Joseph. Machine for producing ice cream cones, bakers' cups or like edible containers. 3,461,823, 8-19-69, Cl. 107-58.

Greco, Michael. Wall panel suspending device. 3,462,792, 8-26-69, Cl. 16-88.

Greco, Nicholas P., to Koppers Company, Inc. Process for preparation of diphenic acid. 3,444,193, 5-13-69, Cl. 260-523.

Greco, Nicholas P., to Koppers Company, Inc. Resorcinol manufacture. 3,462,497, 8-19-69, Cl. 260-621.

Greco, Nicholas P.; and Pennino, Charles J., to Koppers Company, Inc. Clear heat stable product of 1,2-epoxy resin and mellophanic dianhydride. 3,444,135, 5-13-69, Cl. 260-47.

Greczen, John: *See—*
Faigenbaum, Roy D.; and Greczen, John,3,435,635.
Greczin, John; and Faigenbaum, Roy D. Machine and method of knitting a reinforced tubular cover over a flexible hose or the like. 3,462,976, 8-26-69, Cl. 66-9.
Gredell, Marcellus W. Two-speed automatic transmission. 3,436,977, 4-8-69, Cl. 74-217.
Greear, George R.: *See—*
Newland, Gordon C.; Greear, George R.; and Tamblyn, John W.,3,454,510.
Greeb, Henry R.: *See—*
Frazee, Charles D.; and Greeb, Henry R.,3,442,614.
Greedy, Edwin F., to FMC Corporation. Harvester cutting mechanism. 3,420,312, 1-7-69, Cl. 171-61.
Greefkes, Johannes Anton; Riemens, Karel; Krul, Lendert Gerardus; and Zwijsen, Wilhelmus Antonius Joseph Marie. U.S. Philips Corporation, mesne Wide-band low distortion two transistor amplifier. 3,450,998, 6-17-69, Cl. 330-17.
Greek, Francis J.: *See—*
Wolf, Milton; and Greek, Francis J.,3,445,475.
Green, A. P., Refractories Co.: *See—*
Crookston, James A.; and Gritton, William R., 3,436,237.
Crookston, James A.; and Gritton, William R., 3,446,639.
Kuhn, William E., 3,469,941.
Green, Albert Lawrence; and Fielden, Roy, to Smith Kline & French Laboratories. Hypotensive method and compositions using 1-α-phenylethylguanidine. 3,483,299, 12-9-69, Cl. 424-326.
Green, Albert Lawrence; and Willey, George Lawrence, to Smith Kline & French Laboratories. β-Lower alkoxyphenethylguanidine salts. 3,456,009, 7-15-69, Cl. 260-564.
Green, Allan Kay: *See—*
Graham, William A.; and Green, Allan Kay,3,463,083.
Green Bay Research Corporation: *See—*
Miles, Cecil W., 3,450,114.
Green, Bruce J.: *See—*
Roskos, Thomas George; and Green, Bruce J.,3,429,760.
Green, Burton M. Double-disc power clipper. 3,472,007, 10-14-69, Cl. 56-25.4
Green, Byron D. Safety barricade. 3,456,100, 7-15-69, Cl. 240-2.
Green, Carl J. Automatic speed change transmission. 3,429,200, 2-25-69, Cl. 74-674.
Green, Carl J. Nonuniform electric field process and apparatus. 3,461,364, 8-12-69, Cl. 317-262.
Green, Carl W., to Bell Telephone Laboratories, Incorporated. Pulse delay control circuit. 3,435,437, 3-25-69, Cl. 340-174.
Green, Charles E.: *See—*
Roshon, John R.; and Green, Charles E.,3,466,924.
Green, Charles F.: *See—*
Bracken, Aubrey T.; Luhrs, Millen E.; and Green, Charles F.,3,459,413.
Green, Charles J., to Rocket Research Corporation. Generation of cool working fluids. 3,431,742, 3-11-69, Cl. 62-52.
Green, Charles J., to Rocket Research Corporation. Generation of cool working fluids. 3,431,743, 3-11-69, Cl. 62-52.
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D., to Rocket Research Corporation. Two stage inflation aspirator. 3,460,746, 8-12-69, Cl. 230-104.
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D., to Rocket Research Corporation. Inflation method and apparatus. 3,460,747, 8-12-69, Cl. 230-104.
Green, Clarence C.; and Denlinger, John Lester, to Armstrong Cork Company. Infeed control mechanism for a closure lining machine. 3,483,963, 12-16-69, Cl. 198-34.
Green, Clarks: *See—*
Frieder, Leonard P.; Green, Clarks; and Luisada, August G.,3,425,071.
Green Cross Corporation, The: *See—*
Komatsu, Nobuhiko, 3,458,402.
Naito, Ryoichi; Oguro, Yoshigoro; and Murata, Yorihiko, 3,434,928.
Green, David H., to General Electric Company. Tubular halogen cycle incandescent lamp with inner cylinder for universal operation. 3,435,272, 3-25-69, Cl. 313-222.
Green, David J.; Tasker, Raymond B.; and Davis, Donovan C., to Gilfillan Corporation. Frequency indication system. 3,450,990, 6-17-69, Cl. 324-78.
Green, Derek B., to Scovill Manufacturing Company. Valve structure for aerosol container. 3,434,695, 3-25-69, Cl. 251-349.
Green, Derek Bernard, to Scovill Manufacturing Company. Dispensing actuator for aerosol containers. 3,434,633, 3-25-69, Cl. 222-402.13
Green, Derek Bernard, to Scovill Manufacturing Company. Aerosol valve combination for mixing and dispensing plural fluids. 3,482,736, 12-9-69, Cl. 222-94.
Green, Derek, to United Kingdom Atomic Energy Authority. Apparatus for the fabrication of tubes by wall thinning in tubular blanks. 3,427,843, 2-18-69, Cl. 72-57.
Green, Derek, to United Kingdom Atomic Energy Authority. Hydrostatic extrusion apparatus. 3,434,320, 3-25-69, Cl. 72-60.
Green, Dick R.: *See—*
New, Harry E.; and Green, Dick R.,3,470,836.
Green, E., and Son Limited: *See—*
Wagner, Maurice Reginald, 3,459,258.
Green, Ernest C. Word forming game apparatus comprising matching hexagonal board areas and playing pieces. 3,472,514, 10-14-69, Cl. 273-135.
Green, Frank B. K. Apparatus for continuous digesting. 3,434,920, 3-25-69, Cl. 162-237.
Green Giant Company: *See—*
Alpen, Cecil W., 3,478,794.
Green, Gloyd W. Automated animal feeder. 3,434,459, 3-25-69, Cl. 119-51.11
Green, Gordon F.: *See—*
Luckham, Denis C.; and Green, Gordon F.,3,434,657.
Green, Harold A., to Air Products and Chemicals Inc. Polyurethane catalysis employing N-hydroxyalkyl substituted imidole. 3,448,065, 6-3-69, Cl. 260-2.5
Green, Harold R., to Electronic Associates Inc. System for display and control of logic element outputs. 3,444,518, 5-13-69, Cl. 340-147.
Green, Harold. Fastener connections. 3,438,099, 4-15-69, Cl. 24-222.
Green, Harvey J.; and Adle, Joseph R., to Kitchens of Sara Lee, Inc. Apparatus for and method of removing pulp from a banana. 3,482,615, 12-9-69, Cl. 146-237.
Green, James H. Automatic paper cutter. 3,453,916, 7-8-69, Cl. 83-400.
Green, James, Jr.; and Hauenstein, Max C., to General Electric Company. Cord storage means and electrical appliance. 3,476,331, 11-4-69, Cl. 242-85.1
Green, James W., to Magnasync Moviola, mesne: Time announcer. 3,469,038, 9-23-69, Cl. 179-100.2
Green, James W.; and Krahulec, Fred, to Motorola, Inc. Acceleration-actuated switch. 3,439,137, 4-15-69, Cl. 200-61.45
Green, Joe W.: *See—*
Arnold, Henry S.; and Green, Joe W.,3,473,792.
Green, John C. Folding ladder. 3,474,881, 10-28-69, Cl. 182-24.
Green, John Uvedale: *See—*
Leman, Hugh Spence; Barnes, George John Preston; and Green, John Uvedale,3,440,362.
Green, John W.: *See—*
Wilkinson, Robert J.; and Green, John W.,3,467,500.
Green, Joseph: *See—*
Castellano, Joseph A.; and Green, Joseph,3,428,672.
Fein, Marvin M.; Green, Joseph; and O'Brien, Eugene L.,3,431,234.
Green, Joseph, to Miner Industries Inc. Toy theater. 3,422,562, 1-21-69, Cl. 46-13.
Green, Joseph. Mask with noise-making device. 3,439,447, 4-22-69, Cl. 46-175.
Green, Joseph. Variable speed self-righting toy. 3,442,045, 5-6-69, Cl. 46-118.
Green, Joseph, to Miner Industries, Inc. Spinning balloon device. 3,457,669, 7-29-69, Cl. 46-53.
Green, Joseph; and Kotoby, Anatole P., to Thiokol Chemical Corporation. Phosphate esters of hydroxy-carboranes. 3,450,798, 6-17-69, Cl. 260-922.
Green, Joseph; Levine, Nathan B.; and Sheehan, William R., to Thiokol Chemical Corporation. Nitrogen tetroxide resistant carboxy-nitroso terpolymer. 3,427,279, 2-11-69, Cl. 260-41.
Green, Joseph; and Schaeffer, Paul F., to Thiokol Chemical Corporation. High-velocity gun propellants containing solid nitrogen hydrides or boron compounds. 3,444,013, 5-13-69, Cl. 149-22.
Green, Julius; Morse, Richard W.; and Westfall, Dick R., to General Foods Corporation. Apparatus for treating particles. 3,448,718, 6-10-69, Cl. 118-5.
Green, Leland Dale: *See—*
Saeger, Waldemar; Reynolds, Robert W.; Green, Leland Dale; Tanguay, Armand R.; and Shimabukuro, George T.,3,432,613.
Green, Leland D.; Reynolds, Robert W.; and Saeger, Waldemar, to Xerox Corporation. Facsimile line skipping system. 3,428,744, 2-18-69, Cl. 178-6.
Green, Leland D.; Reynolds, Robert W.; Saeger, Waldemar; and Tanguay, Armand R., to Xerox Corporation. Method and apparatus for accomplishing line skipping in a facsimile system. 3,448,207, 6-3-69, Cl. 178-6.
Green, Leland D.; Saeger, Waldemar; and Tanguay, Armand R., to Xerox Corporation. Facsimile apparatus operable over telephone lines with accelerated operation past blank areas of a document. 3,445,598, 5-20-69, Cl. 179-4.
Green, Marion C. Storage container means. 3,460,705, 8-12-69, Cl. 220-5.
Green, Marshall S., to Black Clawson Company, The. Headbox for twin wire paper machine. 3,450,596, 6-17-69, Cl. 162-338.
Green, Martin S. Rotary internal combustion engine. 3,467,070, 9-16-69, Cl. 123-14.
Green, Martin; and Boerio, Alvin H., to Westinghouse Electric Corporation. Image storage device. 3,440,478, 4-22-69, Cl. 315-12.
Green, Martin; and Campbell, Roy, to Girling Limited. Tractor braking systems. 3,459,458, 8-5-69, Cl. 303-6.

Green, Martin; and McDevitt, Howard I., Jr., to Westinghouse Electric Corporation. Secondary electron conduction electron tube. 3,447,024, 5-27-69, Cl. 315-12.
Green, Maurice Berkeley: *See*—
Colchester, John Edward; Entwisle, John Hubert; and Green, Maurice Berkeley,3,464,981.
Green, Melvin E.; and Derrickson, Charles H., to Advance Process Supply Co. Process and apparatus for multicolor screen printing. 3,460,470, 8-12-69, Cl. 101-115.
Green, Melvin E.; and Derrickson, Charles H., to Advance Process Supply Co. Apparatus for multicolor screen process printing. 3,460,471, 8-12-69, Cl. 101-115.
Green, Milton J., to Fenwick Products Inc. Fishing rod with removable stiffener. 3,452,468, 7-1-69, Cl. 43-18.
Green, Milton: *See*—
Blout, Elkan R.; Cohen, Saul G.; Green, Milton; and Simon, Myron S.,3,429,872.
Green, Milton. Thermoelectric system. 3,441,449, 4-29-69, Cl. 136-203.
Green, Milton; Sayigh, Adnan A.; and Ulrich, Henri, to Polaroid Corporation. Certain N,N-disubstituted hydroxylamines. 3,455,916, 7-15-69, Cl. 260-243.
Green, Peter Nicholl: *See*—
Shapero, Maurice; and Green, Peter Nicholl,3,472,874.
Green, Peter N.; and Shapero, Maurice, to Ward Blenkinsop & Company Limited. 2-Guanidinylmethyl-2,3-dihydrobenzofurans. 3,426,043, 2-4-69, Cl. 260-346.2
Green, Peter N.; and Shapero, Maurice, to Blenkinsop, Ward, & Company Limited. 2-(Alkoxyalkylaminomethyl)-benzofurans. 3,457,281, 7-22-69, Cl. 260-346.2
Green, Philip S.; and Brown, Alvin E., to Lockheed Aircraft Corporation. Solid state acoustic image converter. 3,475,551, 10-28-69, Cl. 178-7.2
Green, Ramona Bernice: *See*—
Green, Richard Allan,3,483,848.
Green, Raymond E., to Hoff, Trygve & Associates. Modular building construction. 3,430,398, 3-4-69, Cl. 52-236.
Green, Richard Allan, deceased0 (by Green, Ramona Bernice; executrix), to Babcock & Wilcox Canada Ltd., mesne. Vapor generator with integral economizer. 3,483,848, 12-16-69, Cl. 122-32.
Green, Richard V. Golf stance-guiding device. 3,459,429, 8-5-69, Cl. 273-187.
Green, Richard, to Tenneco Chemicals, Inc. Formaldehyde polymers stabilized with tris (dialkylhydroxybenzyl) benzenes. 3,424,819, 1-28-69, Cl. 260-857.
Green, Robert F., Jr., to Mec-O-Matic, Inc. Fluid pressure operated pump. 3,467,021, 9-16-69, Cl. 103-152.
Green, Robert G.;: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,426,746.
Green, Robert M., to Industrial Teaching Systems Corporation, mesne. Training apparatus and method. 3,483,635, 12-16-69, Cl. 35-13.
Green, Robert W. Portable burglar alarm. 3,427,608, 2-11-69, Cl. 340-274.
Green, Robert, to General Electric Company. Apparatus for transforming and testing of electrical coils in an inductive device. 3,455,007, 7-15-69, Cl. 29-205.
Green, Ronald Frank, to Davidson Holdings Pty., Limited. Coin freed ball storage system for pool and snooker tables. 3,444,974, 5-20-69, Cl. 194-9.
Green, Rosemary: *See*—
Farquhar, James Thomson; and Green, Rosemary,3,446,717.
Green, Russell D.: *See*—
Nelson, Robert E.; Green, Russell D.; and Sanders, Robert K.,3,482,396.
Green, Stanley E.: *See*—
Deutsch, Daniel H.; Green, Stanley E.; Murray, John D.; and Saleeby, Edward W.,3,425,912.
Green, Verland H. Float and casting device. 3,461,596, 8-19-69, Cl. 43-43.1
Green, Walter F.; Williams, Robert L.; and McCoy, Wyn E., to Timken Roller Bearing Company, The. Unitized tapered roller bearing. 3,420,589, 1-7-69, Cl. 308-174.
Green, William B., Jr.; Witte, Arnold C., Jr.; Pitman, Herbert J.; and Dowden, Clarence L., Jr., to Texaco Inc. Method of grease manufacture. 3,475,337, 10-28-69, Cl. 252-41.
Green, William G.: *See*—
Beard, Franklin; and Green, William G.,3,447,511.
Green, William; and Riazanow, Jerzy, to Ceramivac Mfg., Inc. Furnaces for treating ceramics. 3,463,470, 8-26-69, Cl. 263-40.
Greenan, Richard E.: *See*—
Uthe, Paul M., Jr.; Wright, Loren G.; and Greenan, Richard E.,3,445,750.
Greenbaum, Sheldon B., to Hooker Chemical Corporation. Unsaturated carbamyl or acyloxy containing phosphorothioates and phosphorodithioates. 3,431,325, 3-4-69, Cl. 260-938.
Greenbaum, Sheldon B., to Hooker Chemical Corporation. Controlling insects with furoyloxyalkenyl thio phosphates. 3,433,865, 3-18-69, Cl. 424-203.
Greenbaum, Sheldon B.: *See*—
Weil, Edward D.; and Greenbaum, Sheldon B.,3,482,019.
Greenberg, Allan W. Electrical system improvement for vehicles. 3,466,453, 9-9-69, Cl. 307-10.
Greenberg, Avrom; Brown, William H., Jr.; Packard, Clifford B.; and Hackenberger, George I., Jr., to Kaman Corporation. Air-sea rescue device with floatation collar. 3,444,569, 5-20-69, Cl. 9-14.
Greenberg, David R.: *See*—
Davidson, Ralph; and Greenberg, David R.,3,440,489.
Greenberg, Elmer H.; and Greenberg, William B., said Greenberg, Elmer H., assor. to said Greenberg, William B. Apparatus for surface-finishing metalwork. 3,434,241, 3-25-69, Cl. 51-14.
Greenberg, Harry: *See*—
Grinninger, Lowell D.; and Greenberg, Harry,3,423,379.
Greenberg, Leonard: *See*—
Diemond, Joseph; and Greenberg, Leonard,3,421,162.
Greenberg, Leon. Dampened spring supported bolster bogies. 3,452,685, 7-1-69, Cl. 105-197.1
Greenberg, Louise H.: *See*—
Carlson, Henry Clifford, Jr.; and Greenberg, Louise H.,3,423,511.
Greenberg, Malvin, to Schoolhouse Industries, Inc. Coordinated group of elements constituting a teaching aid. 3,469,325, 9-30-69, Cl. 35-9.
Greenberg, Martin; and Wagner, Leonard S. Dental sensing device. 3,462,842, 8-26-69, Cl. 32-67.
Greenberg, Myron L., to Babcock & Wilcox Company, The, mesne. Precision spline. 3,455,122, 7-15-69, Cl. 64-23.
Greenberg, Myron L., to Babcock & Wilcox Company, The. Machine tools and instruments. 3,466,951, 9-16-69, Cl. 77-1.
Greenberg, Myron L.; and Kolesar, Daniel J., to Babcock & Wilcox Company, The. Wind tunnel model support. 3,455,155, 7-15-69, Cl. 73-147.
Greenberg, Myron L.; and Porath, Gordon H., to Babcock & Wilcox Company, The. Hydrostatic gearing. 3,424,022, 1-28-69, Cl. 74-409.
Greenberg, Myron L.; and Porath, Gordon H., to Babcock & Wilcox Company, The. Machine tools and instruments. 3,430,318, 3-4-69, Cl. 29-27.
Greenberg, Myron L.; and Porath, Gordon H., to Babcock & Wilcox Company, The. Hydrostatic bearing supported boring bar. 3,466,952, 9-16-69, Cl. 77-1.
Greenberg, Ralph, to Ryan Industries, Inc. Cryogenic tank support means. 3,446,388, 5-27-69, Cl. 220-15.
Greenberg, Robert L., to National Equipment Corporation. Box treating apparatus. 3,426,502, 2-11-69, Cl. 53-75.
Greenberg, Robert L., to National Equipment Corporation. Candy forming method and apparatus. 3,438,341, 4-15-69, Cl. 107-69.
Greenberg, Ronald B.: *See*—
Crandon, Harry D.; and Greenberg, Ronald B.,3,484,157.
Greenberg, Samuel. Plastic mouthpiece with break-away strap. 3,485,242, 12-23-69, Cl. 128-136.
Greenberg, Sanford David; and Norvell, Bert E., to Cambridge Research and Development Group, mesne. Apparatus for reducing time duration of signal reproduction. 3,480,737, 11-25-69, Cl. 179-100.2
Greenberg, Seymour. Pen. 3,481,675, 12-2-69, Cl. 401-35.
Greenberg, Sol; and Gautherin, George A., to Lambda Electronics Corporation. Electronic power supplies with inverters and regulators. 3,423,665, 1-21-69, Cl. 321-11.
Greenberg, Stuart G.: *See*—
Garrett, Lane S.; Bergey, John M. K.; Greenberg, Stuart G.; and Alessandro, Frank J.,3,469,084.
Greenberg, William B.: *See*—
Laudel, Arthur, Jr., 3,435,325.
Greenberg, William B.: *See*—
Greenberg, Elmer H.; and Greenberg, William B.,3,434,241.
Greenberger, Joseph I., to United Engineering and Foundry Company. Dummy bar device for continuous casting machine. 3,433,287, 3-18-69, Cl. 164-274.
Greenberger, Joseph I., to United Engineering and Foundry Company. Continuous casting method. 3,435,879, 4-1-69, Cl. 164-83.
Greenberger, Joseph Irwin, to United Engineering and Foundry Company. Severing station for moving workpieces. 3,443,805, 5-13-69, Cl. 266-23.
Greenberger, Joseph Irwin, to United Engineering and Foundry Company. Continuous casting. 3,464,482, 9-2-69, Cl. 164-274.
Greenblatt,Abraham Jacob, to Dell Plastic Company,Inc. Amusement device. 3,466,796, 9-16-69, Cl. 46-241.
Greenblum, Carl, to Bunker-Ramo Corporation, The. Data display system. 3,428,851, 2-18-69, Cl. 315-19.
Greenblum, Carl, to Bunker-Ramo Corporation, The. Display system. 3,428,852, 2-18-69, Cl. 315-22.
Greenblum, Carl, to Bunker-Ramo Corporation, The. Beam control circuit. 3,439,219, 4-15-69, Cl. 315-26.

Greenblum, Carl; Buegler, Robert J.; McCarroll, Joseph F.; Avakian, Emik A.; and Granbery, John, to Bunker-Ramo Corporation, The. On line data processing apparatus. 3,484,748, 12-16-69, Cl. 340-153.
Greenburg, Leon S.: *See—*
Desmond, Timothy J.; Greenburg, Leon S.; and Weisberg, Harry,3,445,735.
Greendorfer, Joseph M.: *See—*
Rudy, Thomas P.; Nakagawa, Toshio W.; and Greendorfer, Joseph M.,3,480,488.
Greene, Abbot; and Densen, Paul. Box construction. 3,477,633, 11-11-69, Cl. 229-34.
Greene, Abbot; and Densen, Paul. Shipping container. 3,485,435, 12-23-69, Cl. 229-40.
Greene, Anthony E.: *See—*
Pemberton, Paul E.; Loose, Sheldon D.; and Greene, Anthony E.,3,457,983.
Greene, Aubrey. Spraying device enclosure. 3,420,412, 1-7-69, Cl. 222-78.
Greene, Clifford E.: *See—*
Krasin, Lester Q.; and Greene, Clifford E.,3,475,561.
Greene, David B. Pet portal for sliding glass doors. 3,464,158, 9-2-69, Cl. 49-168.
Greene, Edna Mae: *See—*
Lauritsen, James L., 3,457,980.
Greene, Edward G.: *See—*
Heinemann, Robert W.; and Greene, Edward G.,3,470,819.
Greene Engineering Company: *See—*
Greene, George B., 3,485,258.
Greene, George B., 90% to Greene Engineering Company, and 10% to Electronic Engineering Company of California. Bistable fluid device. 3,485,258, 12-23-69, Cl. 137-112.
Greene, George J., Jr., to UGC Industries, Inc. Moisture and snow detector. 3,440,396, 4-22-69, Cl. 219-201.
Greene, George J., Jr.: *See—*
McElwee, Lorin A.; Cordray, Roy E.; and Greene, George J., Jr.,3,439,161.
Greene, Gorge W., Jr.: *See—*
Becker, Adam; Greene, Gorge W., Jr.; and Bruno, Louis D.,3,438,628.
Greene, Harold R.: *See—*
Furman, Arthur R.; Greene, Harold R.; and Wilhelm, Frederick A., Jr.,3,483,530.
Greene, Harold R., to Electronic Associates Inc. Composite monostable multivibrator system. 3,461,321, 8-12-69, Cl. 307-273.
Greene, Janice L., to Standard Oil Company, The (Ohio). Manufacture of water-soluble amides. 3,450,758, 6-17-69, Cl. 260-561.
Greene, Janice L.; Idol, James D., Jr.; and Standish, Norman W., to Standard Oil Company, The (Ohio). Process of chlorinating cyclobutane-1,2-dicyanide and resulting compounds. 3,454,618, 7-8-69, Cl. 260-464.
Greene, John H.; Hencke, William R.; Dowden, Clarence L., Jr.; and Pitman, Herbert J., to Texaco Inc. Method and apparatus for continuous grease manufacture. 3,475,335, 10-28-69, Cl. 252-39.
Greene, Leonard M., to Safe Flight Instrument Corporation. Automatic aircraft throttle closure system for flare. 3,437,292, 4-8-69, Cl. 244-77.
Greene, Leonard M., to Safe Flight Instrument Corporation. Airplane instruments. 3,486,722, 12-30-69, Cl. 244-77.
Greene, Loy Richard: *See—*
O'Keefe, Michael Francis; Stull, Robert Stanley; and Greene, Loy Richard,3,459,906.
Greene, Max E., to Phillips Petroleum Company. Method of pleating and stretching plastic film. 3,478,142, 11-11-69, Cl. 264-288.
Greene, Orville N.: *See—*
Copeland, Jacob C., 3,459,341.
Greene, Oscar. Ball chain connector element. 3,458,993, 8-5-69, Cl. 59-35.
Greene, Oscar, to Name-Maker Corporation. Electric scissors. 3,478,426, 11-18-69, Cl. 30-228.
Greene, Richard. Manure dryer unit. 3,451,781, 6-24-69, Cl. 23-259.1
Greene, Robert L.; and Brown, Hugh O., to Beckman Instruments, Inc. Electrode holder. 3,484,359, 12-16-69, Cl. 204-195.
Greene, Robert R.: *See—*
Keyes, Jack; Greene, Robert R.; and Boesen, Thomas E.,3,467,014.
Greene, William E., to S. W. Industries, Inc. Construction of roll for machinery and the manufacture thereof. 3,447,600, 6-3-69, Cl. 165-90.
Greenewald, Herbert, Jr., to North American Rockwell Corporation. Casting high-strength aluminum alloys. 3,485,681, 12-23-69, Cl. 148-3.
Greenfield, John B., to Acme Industries, Inc. Cooling tower water distributor. 3,424,442, 1-28-69, Cl. 261-81.
Greenfield, Stanley; Jones, Iorwerth Llewelyn William; and Christopher Thomas, to Radyne Limited, and Albright & Wilson (Mfg.) Limited. Plasma light source for spectroscopic investigation. 3,467,471, 9-16-69, Cl. 356-36.
Greengard, Paul; and Petrack, Barbara, to Geigy Chemical Corporation. Production of an antidepressant effect with esters of gallic acid. 3,462,534, 8-19-69, Cl. 424-308.
Greenhalgh, Frank Geoffrey; and Cairns, Walter John, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,425,905, 2-4-69, Cl. 176-50.
Greenhalgh, Samuel: *See—*
Cole, Richard I.; Holcroft, Donald E.; Milligan, Edward A.; and Greenhalgh, Samuel,3,432,936.
Greenhalgh, William; and Soper, David Kenneth. Disposable container liner and advertising means. 3,484,011, 12-16-69, Cl. 215-12.
Greenheck Fan & Ventilator Corp.: *See—*
Greenheck, Robert C., 3,425,621.
Greenheck, Robert C., 3,435,911.
Greenheck, Robert C., to Greenheck Fan & Ventilator Corp. Inline centrifugal fan with door. 3,425,621, 2-4-69, Cl. 230-235.
Greenheck, Robert C., to Greenheck Fan & Ventilator Corp. Acoustic curb. 3,435,911, 4-1-69, Cl. 181-50.
Greenhouse, David, to Arlen Trophy Company, Inc. Golf practice apparatus. 3,424,464, 1-28-69, Cl. 273-178.
Greenhouse, Ruth Arlene. Bathing cap. 3,447,164, 6-3-69, Cl. 2-68.
Greening, Peter Douglas: *See—*
McHattie, Robert Howard; and Greening, Peter Douglas,3,450,117.
Greeninger, Carroll D. Screen-tightening apparatus. 3,469,695, 9-30-69, Cl. 209-403.
Greenlay, John E.: *See—*
Lagasse, Joseph Louis; Palardy, Jacques; Greenlay, John E.; Guimond, Jean P.; and Toussaint, Marcel,3,485,432.
Greenleaf, Leland B.; and Bryant, James Timothy, to Conn, C. G., Ltd. Key pads for musical instruments. 3,421,399, 1-14-69, Cl. 84-380.
Greenleaf, Walter J. Milling cutter. 3,486,210, 12-30-69, Cl. 29-95.
Greenleaf, Walter J. Milling cutter. 3,486,211, 12-30-69, Cl. 29-105.
Greenlee, Howard N., Jr. Device for reproducing sound. 3,460,838, 8-12-69, Cl. 274-1.
Greenlee, Lyman E., 1/2 to Forse, Don H. Light measuring device. 3,458,262, 7-29-69, Cl. 356-226.
Greenlee, Sylvan O., to Ciba Limited, mesne. Polyepoxides. 3,454,539, 7-8-69, Cl. 260-79.
Greenlee, Wilfred E. Process and apparatus for drying hair. 3,444,624, 5-20-69, Cl. 34-3.
Greenler, Robert J.: *See—*
Alonzo, Richard L.; Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N.,3,481,729.
Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N.,3,486,876.
Basler, Wayne G.; Coburn, Kenneth E.; Greenler, Robert J.; and Thompson, Robert J.,3,481,728.
Greenler, Robert J., to Ford Motor Company. Method of and chamber for the manufacture of glass. 3,457,056, 7-22-69, Cl. 65-32.
Greenler, Robert J., to Ford Motor Company. Chamber for the manufacture of float glass with a graphite liner of varied thickness. 3,486,878, 12-30-69, Cl. 65-182.
Greenley, Robert Z.: *See—*
Nielsen, Morris L.; and Greenley, Robert Z.,3,435,013.
Greenlife Products Company: *See—*
Lowery, Alexander B., 3,450,209.
Greenly, Jack R.: *See—*
La Mers, Herbert; and Greenly, Jack R.,3,475,184.
Greenly, Robert B.; Jenkner, Kurt W.; and Kittredge, Raymond E., to Singer-General Precision, Inc. Film annotation method and apparatus. 3,473,451, 10-21-69, Cl. 95-1.1
Greenman, Donald L. Holding fixture. 3,484,896, 12-23-69, Cl. 17-70.
Greenman, Jesse M., III, to International Business Machines Corporation. Tailoring microminiature components. 3,453,781, 7-8-69, Cl. 51-8.
Greeno, J. R., Company, The: *See—*
Dull, Thomas J.; and Goldmeyer, Clifford, 3,464,463.
Greeno, John R.: *See—*
Maddux, Forrest E., Jr.; and Greeno, John R.,3,419,920.
Greensboro Electronics, Inc.: *See—*
Watts, Jefferson L.; and Coffman, John W., III, 3,449,530.
Greenshields, Bruce D. Apparatus for measuring shaft reversal frequency and pulse generator used therein. 3,456,188, 7-15-69, Cl. 324-78.
Greenshields, James Nairn: *See—*
Gazzard, Edward George; and Greenshields, James Nairn,3,431,283.
Gazzard, Edward George; and Greenshields, James Nairn,3,441,561.
Greenshields, James Nairn; Langley, Bernard William; Vickers, Edward Jervis; Walpole, Arthur Leonard; and Williams, Michael Henry Currer, to Imperial Chemical Industries Limited. Triethyleneglycol diglycidyl ether mammalian tumor-inhibiting parenteral compositions and injection methods of use intra-arterially or intravenously. 3,424,846, 1-28-69, Cl. 424-278.

Greenspan, Bertram. Disconnect tools. 3,461,534, 8-19-69, Cl. 29-206.
Greenspan, Frank P.; and Dupuis, Arthur V., to FMC Corporation. Modified diallylic phthalate resin solutions and decorative laminate impregnated with same. 3,468,754, 9-23-69, Cl. 161-250.
Greenspan, George; Ruelius, Hans W.; and Alburn, Harvey E., to American Home Products Corporation. Microbiological modification of benzodiazepines. 3,453,179, 7-1-69, Cl. 195-51.
Greenspan, Joseph, to Frigidmeats, Inc. Process for preparing meat loaf. 3,457,085, 7-22-69, Cl. 99-108.
Greenspan, Lawrence, to Engelhard Industries, Inc. Gold plating. 3,423,295, 1-21-69, Cl. 204-43.
Greenspan, Lawrence, to Engelhard Industries, Inc. Gold plating. 3,466,233, 9-9-69, Cl. 204-43.
Greenspan, Marshall: *See—*
Goodwin, Raymond Wendell; and Greenspan, Marshall,3,470,429.
Greenstein, Leon M., to Mearl Corporation, The. Iridescent articles and methods of manufacture. 3,481,663, 12-2-69, Cl. 350-163.
Greenstein, Leon: *See—*
Lane, Curtis; and Greenstein, Leon,3,469,346.
Lane, Curtis; Glemby, Kenneth; and Greenstein, Leon,3,479,835.
Greentree, Herbert. Trailer brake control system. 3,486,799, 12-30-69, Cl. 303-7.
Greenwald, Harry, 1/3 to Walf, Louis, and 1/3 to Silberglait, Harry. Lock and improved guard therefor. 3,444,712, 5-20-69, Cl. 70-423.
Greenwald, William. Audio visual programmer. 3,478,345, 11-11-69, Cl. 340-338.
Greenwall, Robert A., Jr.; and Halvorsen, Jack L., to B. J. Management Corporation, mesne. Multiple circuit electrical switchboard with circuit selector. 3,467,922, 9-16-69, Cl. 335-161.
Greenwalt, Richard B.: *See—*
Greaves, Melvin J.; Werner, Tage; and Greenwalt, Richard B.,3,432,287.
Greenwalt, Tibor J.; and Gajewski, Mieczyslaw, to Milwaukee Blood Center, Inc. Method and apparatus for treating blood. 3,462,361, 8-19-69, Cl. 210-23.
Greenwood, Alan; and Hale, Jack T., to Goodyear Tire & Rubber Company, The. Duplex extruder head. 3,486,195, 12-30-69, Cl. 18-13.
Greenwood, Alden T.Diver's jacket and buoyancy control device. 3,436,777, 4-8-69, Cl. 9-342.
Greenwood, Allan N., to General Electric Company. Circuit interrupting means for a high voltage D-C circuit. 3,435,288, 3-25-69, Cl. 317-11.
Greenwood, Allan N., to General Electric Company. Circuit interrupting means for a high voltage D-C system. 3,476,978, 11-4-69, Cl. 317-11.
Greenwood, David L.: *See—*
Tibbling, Stig B.; and Greenwood, David L.,3,440,936.
Greenwood, James M. Hyperbaric heart pump oxygenator with hypothermia. 3,437,450, 4-8-69, Cl. 23-258.5
Greenwood, Kenneth, to Lucas, Joseph, (Industries) Limited. Combustion apparatus for gas turbine engines. 3,460,345, 8-12-69, Cl. 60-39.65
Greenwood, Robert; Harrison, Donald Britton; and Morris, Joseph Robert, to T.M.M. (Research) Limited. Textile cards. 3,473,848, 10-21-69, Cl. 302-28.
Greenwood, Robert; and Howarth, Walter, to T.M.M. (Research) Limited. Means for feeding fibrous materials. 3,440,690, 4-29-69, Cl. 19-240.
Greenwood, Roger Kearsley: *See—*
Mayer, George; and Greenwood, Roger Kearsley,3,432,291.
Greenwood, Roger, to International Telephone and Telegraph Corporation. Counter drive apparatus. 3,444,764, 5-20-69, Cl. 74-822.
Greenwood, Thomas Eric; Woor, Denis Frederick; and Farnfield, Ronald Edward, to Tecalemit (Engineering) Limited. Fluid filters and apparatus for bleeding hydraulic systems. 3,455,349, 7-15-69, Cl. 141-325.
Greenwood, William S., Jr.; and Visaggio, Andrew, to Singer Company, The. Work feeding mechanisms for sewing machines. 3,467,039, 9-16-69, Cl. 112-203.
Greer, Albert H., to Sybron Corporation. Composite spheroidal phosphorescent organic polymer article and process. 3,459,672, 8-5-69, Cl. 252-301.3
Greer, Albert H.; and Hardy, Robert W., to Ritter Pfaudler Corporation. Spherical reflectant organic polymer article and process. 3,428,514, 2-18-69, Cl. 161-5.
Greer, Albert H.; and Weaver, Marvin P., to Ritter Pfaudler Corporation. Regenerative polymeric grignard compositions. 3,428,616, 2-18-69, Cl. 260-88.3
Greer, David L., to General Electric Company. Magnetic second harmonic analog device. 3,422,277, 1-14-69, Cl. 307-88.
Greer, Donald L.; O'Daniel, Jerome B.; and Yosmali, Krikor, to International Business Machines Corporation. Ribbon level shift with print velocity selection. 3,451,520, 6-24-69, Cl. 197-157.
Greer, Edward M., to Greer Hydraulics, Inc. Pressure accumulator. 3,420,273, 1-7-69, Cl. 138-30.
Greer, Edward M., to Greer Hydraulics, Inc. Pressure vessel. 3,433,268, 3-18-69, Cl. 138-30.
Greer, Edward M., to Greer Hydraulics, Inc. Seat assembly for vehicles. 3,436,048, 4-1-69, Cl. 248-397.
Greer, Homer L.: *See—*
Soltz, Daniel J.; and Greer, Homer L.,3,431,508.
Greer Hydraulics, Inc.: *See—*
Greer, Edward M., 3,420,273.
Greer, Edward M., 3,433,268.
Greer, Edward M., 3,436,048.
Greer, Leonard S.: *See—*
Haulik, Leo J.; Bradbury, James G.; Greer, Leonard S.; and Decker, Clarence W.,3,428,339.
Grees, Karl Lennart; and Karlsson, Sven Olof, to Allmanna Svenska Elektriska Aktiebolaget. Holding circuit for an alternating current static switch. 3,462,619, 8-19-69, Cl. 307-252.
Greeson, James C., Jr., to International Business Machines Corporation. Monolithically fabricated operational amplifier device with self drive. 3,435,365, 3-25-69, Cl. 330-30.
Greeson, James C., Jr.; and Kennedy, James J., to International Business Machines Corporation. Compensating reset circuit. 3,452,217, 6-24-69, Cl. 307-229.
Greeson, James C., Jr.: *See—*
De Claris, Nicholas; Greeson, James C., Jr.; and Horgan, Thomas B.,3,482,211.
Grefco, Inc.: *See—*
Oshida, Otto A.; Gilmore, John P.; and Lowe, James H., 3,441,515.
Grefen, Hans: *See—*
Plum, Hans; Feldges, Werner; Enger, Helmut; and Grefen, Hans,3,431,595.
Greger, Georg, to Intertrading Corporation Establishment. Electronic building set. 3,447,249, 6-3-69, Cl. 35-19.
Greger, Paul: *See—*
Bihlmaier, Oskar; Greger, Paul; and Doring, Erwin,3,474,714.
Rehn, Heinz; Papke, Friedrich; and Greger, Paul,3,484,053.
Gregerson, Stanley Martin: *See—*
Roy, Billy Bert; and Gregerson, Stanley Martin,3,474,824.
Gregg, David Paul: *See—*
Johnson, Keith O.; and Gregg, David Paul,3,480,736.
Gregg, David Paul, to Gauss Electrophysics, Inc., mesne. Transparent recording disc. 3,430,966, 3-4-69, Cl. 274-42.
Gregg, George A. Electrical space heater. 3,466,425, 9-9-69, Cl. 219-341.
Gregg, Hendrick J.: *See—*
Rinker, Franklin G.; and Gregg, Hendrick J.,3,455,561.
Gregg, James Leslie: *See—*
Armes, Gerald Lee; and Gregg, James Leslie,3,467,867.
Gregg, James L., to General Motors Corporation. Testing system for checking diodes connected in situ with inductance windings of dynamoelectric machines. 3,449,673, 6-10-69, Cl. 324-158.
Gregg, John V., Sr., to Cook Paint & Varnish Company. Combination spray head and screen filter. 3,436,024, 4-1-69, Cl. 239-553.3
Gregg, Paul V., to Walker Manufacturing Company. Pipe end forming machine. 3,470,724, 10-7-69, Cl. 72-306.
Gregg, Paul V., to Walker Manufacturing Company. Pipe bending apparatus and method of bending. 3,472,056, 10-14-69, Cl. 72-369.
Gregg, Paul V., to Walker Manufacturing Company. Flattener for tube bender. 3,483,725, 12-16-69, Cl. 72-384.
Grego, Peter; and Howell, Robert G., to Corning Glass Works. Red stained soda lime glass. 3,429,742, 2-25-69, Cl. 117-124.
Grego, Thomas E., to Ingersoll-Rand Company. Hoist chain guide. 3,424,436, 1-28-69, Cl. 254-190.
Grego, Thomas E., to Ingersoll-Rand Company. Multiple disc brake with resilient release means. 3,486,588, 12-30-69, Cl. 188-72.
Gregoire Engineering & Development Co.: *See—*
Gregoire, Resta S., 3,483,663.
Gregoire, Resta S., 3,486,262.
Gregoire, Resta S., 3,486,281.
Gregoire Engineering and Development Co.: *See—*
Gregoire, Resta S., 3,462,819.
Gregoire, Johannes H.C.M.A.: *See—*
Ottenheym, Johannes H.; Thoma, Jozef A.; and Gregoire, Johannes H.C.M.A.,3,476,665.
Gregoire, Resta S. Anchor clip. 3,447,823, 6-3-69, Cl. 287-189.35
Gregoire, Resta S., to Gregoire Engineering and Development Co. Sheet panel wall assembly. 3,462,819, 8-26-69, Cl. 29-155.
Gregoire, Resta S., to Gregoire Engineering & Development Co. Building wall construction. 3,483,663, 12-16-69, Cl. 52-293.
Gregoire, Resta S., to Gregoire Engineering & Development Co. Post sign. 3,486,262, 12-30-69, Cl. 40-145.
Gregoire, Resta S., to Gregoire Engineering & Development Co. Commodity sheet panel. 3,486,281, 12-30-69, Cl. 52-127.
Gregor, Harry P. Fuel cell with ion exchange electrolyte. 3,483,036, 12-9-69, Cl. 136-86.
Gregor, Harry P.; Teyssie, Philippe; and Hoeschele, Guenther K. Oleophilic-hydrophilic ion exchange resins. 3,434,979, 3-25-69, Cl. 260-2.1

Gregor, Harry: *See—*
Hanneman, Robert Gorden; Gordon, Mack; and Gregor, Harry,3,427,978.
Gregord, Thomas: *See—*
Kania, Robert C.; and Gregord, Thomas,3,446,316.
Gregord, Thomas, to Titzel Engineering, Inc. Portable work tower for use in vessels having limited clearance. 3,454,133, 7-8-69, Cl. 182-128.
Gregord, Thomas; and Kania, Robert Charles, to Koppers Company, Inc. Horizontally movable platform having a vertically movable carriage for oxygen steelmaking operations. 3,480,267, 11-25-69, Cl. 266-34.
Gregori, Agostino: *See—*
Gregori, Agostino; and Wintercorn, Andrew F., 3,467,966.
Gregori, Agostino; and Wintercorn, Andrew F., 1/3 each to Gregori, Agostino Wintercorn, Andrew F., and Wintercorn, Walter F. Bidet. 3,467,966, 9-23-69, Cl. 4-7.
Gregori, Werner K. H., to Roher-Bohm Limited, mesne. Baffle unit. 3,420,023, 1-7-69, Cl. 52-309.
Gregorian, Razmic S.: *See—*
Cote, James A.; Ferrington, Thomas E.; and Gregorian, Razmic S.,3,463,765.
Gregorian, Razmic S., to Grace, W. R., & Co. Method for forming biaxially oriented film. 3,465,072, 9-2-69, Cl. 264-95.
Gregorian, Razmic S.; and Bush, Richard W., to Grace, W. R., & Co. Coating process. 3,477,924, 11-11-69, Cl. 204-78.
Gregorich, Henry L.; Jones, Clevoe D.; and Phelps, Marion E., to Ford Motor Company. Anchor tooth spline for rotating gear mechanisms. 3,477,250, 11-11-69, Cl. 64-23.
Gregorio, Guglielmo: *See—*
Pregaglia, Gianfranco; Gregorio, Guglielmo; and Conti, Francesco,3,479,412.
Gregory, Benjamin F.; and Weber, Russell A., to Trak Microwave Corporation. High frequency AC-DC fluorescent lamp driver circuit. 3,448,335, 6-3-69, Cl. 315-171.
Gregory, Edward G., to Rockwell Manufacturing Company. Tool. 3,461,732, 8-19-69, Cl. 74-60.
Gregory, Edward G.; Dobslaw, Gerhardt A.; and De Waters, Terry L., to Rockwell Manufacturing Company. Portable circular saw. 3,456,696, 7-22-69, Cl. 143-43.
Gregory, Eric, to Air Reduction Company, Incorporated. Fabrication of niobium superconductor alloys. 3,472,705, 10-14-69, Cl. 148-11.5
Gregory, Frederick H. Automobile signal-brake light flasher. 3,460,089, 8-5-69, Cl. 340-67.
Gregory, Gordon Ian: *See—*
Eardley, Stephen; Gregory, Gordon Ian; Lazenby, John Kevin; and Long, Alan Gibson,3,479,350.
Gregory Industries, Inc.: *See—*
Hill, Arthur, 3,448,239.
Spisak, Steve, 3,448,236.
Gregory, James T.; Robertson, Arthur B.; and Keim, William A., to PPG Industries, Inc. Polycarbonate-carbamates of alkylidene diphenols and dihydroxy diphenyl sulfones. 3,451,966, 6-24-69, Cl. 260-49.
Gregory, Jerry D. Tape display case. 3,464,748, 9-2-69, Cl. 312-216.
Gregory, Jocelyn Margaret: *See—*
Swan, John Melvin; and Gregory, Jocelyn Margaret,3,445,484.
Baklien, Asbjorn; Gregory, Jocelyn M.; and Kling, Klaus,3,478,057.
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan,3,476,546.
Gregory, John W.; and Nored, Donald L., to United States of America, National Aeronautics and Space Administration. Combustion chamber. 3,460,759, 8-12-69, Cl. 239-127.1
Gregory, John: *See—*
Lobelle, Marcel J. O.; and Gregory, John,3,438,060.
Gregory, Joyce. Weightable hairpiece stand. 3,441,182, 4-29-69, Cl. 223-66.
Gregory, Leroy C.; and Haywood, John T., to Western Electric Company, Incorporated. Circuit employing magnetic cores for testing the presence and absence of electrical connections. 3,439,268, 4-15-69, Cl. 324-73.
Gregory, Lester, Jr. Monitor means and counter mechanism for use with seed planters and the like. 3,422,776, 1-21-69, Cl. 111-51.
Gregory, Lester, Jr. Dispensing and feed mechanism. 3,458,968, 8-5-69, Cl. 53-55.
Gregory, Peter John, to Imperial Chemical Industries of Australia and New Zealand Limited. Process for the reductive dimerisation of alpha, beta-olefinic nitriles. 3,479,386, 11-18-69, Cl. 260-465.8
Gregory, Thomas G., to United States of America, Atomic Energy Commission. Method for inspecting inaccessible surfaces. 3,423,500, 1-21-69, Cl. 264-220.
Gregory, Walter V., Jr., to Controlex Corporation of America. Tubular flexible remote control device. 3,452,615, 7-1-69, Cl. 74-501.
Gregory, William C. Method of forming metal articles. 3,421,200, 1-14-69, Cl. 29-458.
Gregory, William C. Rigid structure comprised of hollow, sealed spheres bonded together. 3,427,139, 2-11-69, Cl. 29-183.
Gregson, Melvin Ross. Gun sling. 3,430,828, 3-4-69, Cl. 224-1.
Gregston, Jerry K. Method for treating gas lift wells. 3,473,611, 10-21-69, Cl. 166-310.
Greibach, Emil H., to Solitron Devices, Inc., mesne. Root-mean-square current meters. 3,458,811, 7-29-69, Cl. 324-132.
Greichgauer, Otto. Brush and method of producing the same. 3,477,763, 11-11-69, Cl. 300-21.
Greidinger, Dahlia S.; and Gershowitch-Cohen, Liuba, to Chemicals & Phosphates Ltd. Glycyrrhetic acid phosphoric acid ester and salts thereof. 3,454,613, 7-8-69, Cl. 260-447.
Greif Bros. Cooperage Corporation, The: *See—*
Bobula, Edward M.; Santoni, Cesar; and Russell, Raymond C., 3,439,949.
Carpenter, Herbert L., Jr.; and Dubois, Robert A., 3,432,070.
Carpenter, Herbert L., Jr., 3,437,231.
Carpenter, Herbert L., Jr., 3,445,049.
Dubois, Robert A.; and Gushard, William H., 3,445,031.
Naylor, Robert M.; and Carpenter, Herbert L., Jr., 3,431,870.
Santoni, Cesar, 3,447,825.
Greif, Herman J., Jr.; Kuusik, Uno; and Koch, David A., to Chrysler Corporatisn. Sealing apparatus for rotary mechanism. 3,485,440, 12-23-69, Cl. 230-145.
Greif, Martin: *See—*
Vincent, James G., Jr.; Hansen, Lloyd Frank; Yen, Ernest Chu; Taylor, Arthur Sinclair; Bott, George Spencer; and Greif, Martin,3,436,453.
Greifenhagen, Karl-Heinz. Device for subsequently applying and additional recording to a primary recording. 3,445,607, 5-20-69, Cl. 179-100.2
Greig, James D.: *See—*
Bailey, Alfred J.; and Greig, James D.,3,434,737.
Greig, James W.; and Anderson, David P., to Woodall Industries, Incorporated. Method for making a hollow plastic core structure. 3,462,330, 8-19-69, Cl. 156-197.
Grein, Arpad: *See—*
Cotta, Ernesto; Grein, Arpad; and Spalla, Celestino,3,454,469.
Greiner Electronic A.G.: *See—*
Greiner, Rudolf; and Sanz, Manuel, 3,486,859.
Greiner, Herbert. Molded graphite bodies and process for making the same. 3,438,848, 4-15-69, Cl. 161-168.
Greiner, Joachim; and Krones, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Method of magnetic flaw detection using a recording layer that is heated and cooled in the leakage field of the test-piece. 3,430,133, 2-25-69, Cl. 324-37.
Greiner, Joachim; and Krones, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Magnetographic testing with recording layer having oriented magnetizable crystals. 3,435,336, 3-25-69, Cl. 324-37.
Greiner, Leonard, to United Aircraft Corporation. Oxidizer to fuel ratio control responsive to condensuctor pressure. 3,427,803, 2-18-69, Cl. 60-39.03
Greiner, Leonard, to United Aircraft Corporation. Underwater propulsion systems employing N_2O. 3,430,602, 3-4-69, Cl. 115-6.1
Greiner, Leonard, to United Aircraft Corporation. Underwater power plant. 3,469,555, 9-30-69, Cl. 115-6.1
Greiner, Rolf, to Schoko-Buck G.m.b.H. Device for handling and positioning articles within containers. 3,444,982, 5-20-69, Cl. 198-33.
Greiner, Rolf, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei K.G. Apparatus for the three-dimensional decoration of pieces of candy particularly pralines. 3,450,095, 6-17-69, Cl. 118-14.
Greiner, Rolf, to Schoko-Buck G.m.b.H. Apparatus for distributing candies or the like. 3,450,247, 6-17-69, Cl. 198-31.
Greiner, Rudolf; and Sanz, Manuel, to Greiner Electronic A.G. Blood analyzing method and apparatus. 3,486,859, 12-30-69, Cl. 23-230.
Greipel, Frank J.: *See—*
Rosner, Michael W.; Boileau, Louis D.; and Greipel, Frank J.,3,468,277.
Greis, Howard A., to Kinefac Corporation. Apparatus for slitting and forming strip material. 3,446,049, 5-27-69, Cl. 72-186.
Greis, Karl, to Moeller & Neumann G.m.b.H. Device for edge trimming metal sheet material in shearing lines. 3,421,395, 1-14-69, Cl. 83-436.
Greitzer, Morris; and Greitzer, Simon. Releasable container lid lock. 3,464,582, 9-2-69, Cl. 220-60.
Greitzer, Simon: *See—*
Greitzer, Morris; and Greitzer, Simon,3,464,582.
Grekila, Richard B.; Ho, Shih-Ming; Knochel, William J.; and Lin, Francis C. M., 10% each to Berman, Robert J. Westinghouse Electric Corporation. Sealing compositions for bonding ceramics to metals. 3,469,729, 9-30-69, Cl. 220-2.3
Grekila, Richard B.; and Needham, Oliver S., Jr., to Westinghouse Electric Corporation. Method of coating with glass. 3,457,102, 7-22-69, Cl. 117-105.2
Grelecki, Chester J.; Keeler, Robert A.; and Szabo, Barna, Jr., to United States of America, Navy, mesne. Thixotropic gelled bipropellant composition containing sulphated galactose polymer. 3,470,042, 9-30-69, Cl. 149-22.
Grelle, Horst, to Bahre-Metallwerk K.G. Collapsible container having reinforced edge portions. 3,435,979, 4-1-69, Cl. 217-69.

Greller, Nelson P. Sorting conveyor. 3,451,525, 6-24-69, Cl. 198-38.
Greller, Nelson P. Sorting conveyor control. 3,451,547, 6-24-69, Cl. 209-74.
Grellsson, Karl Gustav, to Aktiebolaget Electrolux. Suction cleaner. 3,458,891, 8-5-69, Cl. 15-327.
Grellsson, Karl Gustav, to Aktiebolaget Electrolux. Vacuum cleaner. 3,466,696, 9-16-69, Cl. 15-327.
Grempler, Donald E. Data retrieval control for card controlled machines. 3,427,439, 2-11-69, Cl. 235-61.7
Grendelmeier, Georg: *See—*
Rabian, Laszlo; and Grendelmeier, Georg,3,465,220.
Rabian, Laszlo; and Grendelmeier, Georg,3,469,101.
Grenier, Joseph Henri. Endless track for vehicle. 3,484,140, 12-16-69, Cl. 305-35.
Grenier, Maurice, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process for the production of a gas with a variable output by controlling the degree of refrigeration in the liquefaction of stored gas. 3,485,053, 12-23-69, Cl. 62-13.
Grenley, Dallas G.: *See—*
Boyer, Raymond F.; Grenley, Dallas G.; and Anspaugh, Robert H.,3,462,839.
Grenlund, Wesley E.: *See—*
Busker, Leroy H.; and Grenlund, Wesley E.,3,441,844.
Grennan, Charles W.: *See—*
Difford, LeRoy A.; Grennan, Charles W.; and Moorcroft, David L.,3,483,825.
Grenzeback, Robert J. Unitary joint-forming structure. 3,460,447, 8-12-69, Cl. 94-18.
Gresen Manufacturing Company: *See—*
Getman, Ronald K., 3,469,606.
Gresens, Robert I.; and Sackmary, Stephen M., to General Electric Company. Beater ejector for food mixer. 3,443,795, 5-13-69, Cl. 259-1.
Gresenz, William M.; Bendrick, Edward S.; Weber, Bruce R.; and Archacki, William J., to Interchemical Corporation. Novel coating composition. 3,483,149, 12-9-69, Cl. 260-18.
Gresham, John Thomas, to FMC Corporation. Gyroscope float. 3,442,142, 5-6-69, Cl. 74-5.5
Gresham, John Thomas: *See—*
West, Fred William; Gresham, John Thomas; and Weil, Theodore,3,428,715.
Gresham, Virginia D. Male urinary drain. 3,421,507, 1-14-69, Cl. 128-295.
Gresham, William F.: *See—*
McMeen, Forrest H.; Gresham, William F.; and Stucka, George R.,3,427,061.
Greskowiak, Maurice J.: *See—*
Archambeau, James J.; and Greskowiak, Maurice J.,3,439,816.
Gress, Albert V., Jr., to Bendix Corporation, The. Bearing means. 3,447,840, 6-3-69, Cl. 308-5.
Gressitt, Tillman J.; and Ramsey, Raymond B., to Bell Telephone Laboratories, Incorporated. Cable identification and spacing system. 3,459,878, 8-5-69, Cl. 174-112.
Gretag Aktiengesellschaft: *See—*
Celio, Tino; and Guillaume, Francois, 3,454,343.
Celio, Tino; and Hogg, Heinrich, 3,467,475.
Ehrat, Kurt, 3,436,478.
Gretheer, Morris P.: *See—*
Cook, Edward H., Jr.; and Gretheer, Morris P.,3,475,301.
Gretteberg, Fredrik, to A/S Lehmkuhl. Employing an interdigital tone to selective calling system aid in discrimination between signal zones. 3,470,326, 9-30-69, Cl. 179-41.
Gretter, Ralph W.; Spollen, Francis J.; and Voigt, Gottfried O., to Bell Telephone Laboratories, Incorporated. Submarine cable burying machine. 3,434,297, 3-25-69, Cl. 61-72.4
Greulich, Charles. Trim lift guard for lawnmowers. 3,427,793, 2-18-69, Cl. 56-255.
Greulich, Heinz; Schumacher, Karl; Leinauer, Erich; and Widl, Gerhard, to Bosch, Robert G.m.b.H. Plug and socket connection. 3,471,824, 10-7-69, Cl. 339-61.
Greulich, Robert G., to Singer Company, The. Needle bar and presser bar subassembly. 3,420,198, 1-7-69, Cl. 112-238.
Greulich, Robert G., to Singer Company, The. Feed mechanisms for sewing machines. 3,467,041, 9-16-69, Cl. 112-215.
Greutert, Werner: *See—*
Scholzel, Karl, 3,445,287.
Schozel, Karl, 3,462,304.
Greutman, William J. Float switch cutoff means. 3,480,749, 11-25-69, Cl. 200-84.
Greven, Hendrik Maria, to Organon Inc.D-Phe-$^{7\text{-}9\text{-}10}$ A.C.T.H. and derivatives and complexes thereof. 3,479,333, 11-18-69, Cl. 260-112.5
Grewe, Ferdinand: *See—*
Goeldner, Herbert; and Grewe, Ferdinand,3,472,936.
Grey, Donald D., to Celanese Corporation. Tow processing. 3,471,901, 10-14-69, Cl. 19-66.
Grey, Jerry. Method and device for determining properties of an ionized gas. 3,459,039, 8-5-69, Cl. 73-190.
Grey, Jerry; Nelson, Seymour T.; and Williams, Peter M., said Nelson assignor to said Grey. Liquid core nuclear propulsion reactor. 3,426,533, 2-11-69, Cl. 60-203.
Grey, Peter John, to BTR Industries Limited. Phosphorus compounds. 3,445,202, 5-20-69, Cl. 23-357.
Grgurich, Donald A.; Johnston, William K.; and Weissman, Walter, to Esso Research and Engineering Company. Method for heating low temperature fluids. 3,446,029, 5-27-69, Cl. 62-52.
Gri, Norman J.; and Yon, Eugene T., to Avco Corporation. Process for making an indium antimonide infrared detector contact. 3,483,096, 12-9-69, Cl. 204-15.
Grib, Boris F., to Philamon Incorporated. Tuning fork resonator with reed-mode damping and reed signal cancellation. 3,480,809, 11-25-69, Cl. 310-25.
Grib, Noris F.; and Shreve, Robert R., to Philamon Laboratories, Inc. Balanced and coupled tuning fork mounting structure for suppressing reed vibration. 3,425,310, 2-4-69, Cl. 84-457.
Gribas, George J.; Kinney, George C.; and Cummings, Edwin, Jr., to Howmet Corporation. Apparatus for treating and inspecting castings and like objects. 3,460,547, 8-12-69, Cl. 134-46.
Gribble, Donald J., to Agpro, Inc. Combination agitator and chopper for intake of slurry pump. 3,429,513, 2-25-69, Cl. 241-46.
Gribble, Maurice Woolmer; and Whitehead, Donald Gill, to Ferranti, Limited. Information storage devices using delay lines. 3,471,835, 10-7-69, Cl. 340-173.
Gribbons, John G., to Bell Telephone Laboratories, Incorporated. Test set for measuring the rate effect and the forward blocking recovery time of thyristors. 3,436,661, 4-1-69, Cl. 324-158.
Gribens, Joel A.: *See—*
Simons, Charles W.; and Gribens, Joel A.,3,443,006.
Grice, William A.: *See—*
Brignac, Ron R., 3,462,139.
Grichnik, Emil J. Cotton picker. 3,422,609, 1-21-69, Cl. 56-47.
Grichnik, Emil J., to International Harvester Company. Cotton picker housing structure. 3,451,201, 6-24-69, Cl. 56-44.
Grichnik, James A.; and Kupferschmidt, Albert, to Beckman Instruments, Inc. Nystagmus gonioscope. 3,469,903, 9-30-69, Cl. 351-1.
Gricol, Joseph D.; and Schmidt, George E., to Concast Incorporated, mesne. Continuous casting mold. 3,446,267, 5-27-69, Cl. 164-268.
Grider, Lyle D.; Reuter, Gottfried; and Mork, George W., to Bucyrus-Erie Company. Telescopic cantilevered boom. 3,445,004, 5-20-69, Cl. 212-55.
Grieb, Hubert J., to Daimler-Benz Aktiengesellschaft. Turbo-drive for high velocity helicopters. 3,476,334, 11-4-69, Cl. 244-17.19
Griebisch, Otto: *See—*
Gunther, Norbert; Schreiber, Otto; Rubl, Wilhelm; and Griebisch, Otto,3,436,150.
Griebsch, Eugen: *See—*
Janssen, Rainer; Helm, Dietrich; and Griebsch, Eugen,3,483,146.
Griebstein, William J., to Procter & Gamble Company, The. Stannous hydroxyethylnitrilodiacetate. 3,448,132, 6-3-69, Cl. 260-429.7
Grieco, George D.: *See—*
De Hoff, Ronald L.; and Grieco, George D.,3,477,981.
Grieger, Philip F.; and Jaffe, Sol S., to McGraw-Edison Company. Sealed battery with charge-control electrode. 3,424,617, 1-28-69, Cl. 136-6.
Grieger, Robert. Apparatus for manufacturing attenuator plugs. 3,452,395, 7-1-69, Cl. 18-16.5
Griem, Paul D., Jr., to Owens-Corning Fiberglas Corporation. Method of and apparatus for heating material. 3,420,510, 1-7-69, Cl. 263-11.
Griem, Paul D., Jr., to Owens-Corning Fiberglas Corporation. Method of and apparatus for producing continuous fibers. 3,471,278, 10-7-69, Cl. 65-2.
Grieninger, Jean W., to Magnavox Company, The. Harmonic free frequency multiplier utilizing capacitor integration. 3,449,656, 6-10-69, Cl. 321-66.
Griepentrog, Dal Frank, to RCA Corporation. Intermediate frequency coupling network having a sharply tuned sound carrier cancellation trap inductively coupled to the input circuit. 3,487,339, 12-30-69, Cl. 333-76.
Grier, Joseph H., Jr. Pedal crank actuated bicycle wheel rim brakes. 3,486,586, 12-30-69, Cl. 188-24.
Grier, Nathaniel, to Merck & Co., Inc. Cyclic ketone diamines as soil fungicides and bactericides. 3,452,143, 6-24-69, Cl. 424-325.
Grierson, Robert: *See—*
Bonis, Laszlo J.; and Grierson, Robert,3,460,971.
Griesbaum, Karl; Oswald, Alexis A.; and Hall, Daniel Noyes, to Esso Research and Engineering Company. O,O-diethyl-S-(methylthiopropyl) dithiophosphate. 3,449,474, 6-10-69, Cl. 260-948.
Griese, Elmer W., Jr., to Ekco Containers, Inc. Method of making an applicator package. 3,429,096, 2-25-69, Cl. 53-37.
Griese, Hans-Joachim, to Sennheiser Electronic. Low noise circuit arrangement for capacitive transducer. 3,422,225, 1-14-69, Cl. 179-1.

Griesenbrock, Karl-Heinz, to Eaton Yale & Towne, Inc. Control means for a hydrostatic vehicle drive. 3,450,224, 6-17-69, Cl. 180-66.
Griesenbrock, Karl-Heinz, to Eaton Yale & Towne G.m.b.H. Holder for paper cups and the like Sprung swinging steering axles. 3,481,621, 12-2-69, Cl. 294-31.2
Grieshaber, Gunther S., to Pass & Seymour, Inc. Multiplex grounding outlet. 3,478,295, 11-11-69, Cl. 339-14.
Grieshaber, Herman R. Pivoted retractor with shielded spacer teeth. 3,470,872, 10-7-69, Cl. 128-17.
Griesser A.G.: *See—*
Griesser, Friedrich, 3,429,355.
Griesser, Friedrich, to Griesser A.G. Blinds. 3,429,355, 2-25-69, Cl. 160-133.
Griest, Raymond Howard, to Hughes Aircraft Company. Laser employing semielliptical pump cavity. 3,475,697, 10-28-69, Cl. 331-94.5
Grieve, Earl D., 1/2 to Hibpshonan, Ronald D. Safety device for ski lift cable. 3,459,138, 8-5-69, Cl. 104-173.
Grieve, T., and Company Limited: *See—*
Beighton, George William; and Britcher, Arthur Iden, 3,439,729.
Griffen, Charles W., to Armstrong Cork Company. Rotary drum for fissuring acoustical material. 3,461,754, 8-19-69, Cl. 83-2.
Griffeth, Thurman F.; Taylor, Lawrence C.; and Hale, Elgie J. Moisture content tester including a probe having a material sampling chamber. 3,487,302, 12-30-69, Cl. 324-65.
Griffey, Donald E., to Motorola, Inc. Blanking circuit. 3,459,992, 8-5-69, Cl. 315-22.
Griffey, Donald E.; and Drummond, William E., to Motorola, Inc. Relaxation oscillator with sawtooth output. 3,424,998, 1-28-69, Cl. 331-111.
Griffin, Anthony L.; and Griffin, David A. Replacement flange for pin spotter ring tube guide housing. 3,462,144, 8-19-69, Cl. 273-43.
Griffin, Archie Z., Jr., to Schlumberger Technology Corporation. Methods and apparatus for drill stem testing. 3,482,628, 12-9-69, Cl. 166-152.
Griffin, Benjamin F., Jr., to Sperry Rand Corporation. Pulse generator. 3,437,099, 4-8-69, Cl. 137-81.5
Griffin, Brian Philip, to Imperial Chemical Industries Limited. Production of thermoplastic polymeric materials. 3,450,796, 6-17-69, Cl. 260-885.
Griffin, Brian Philip, to Imperial Chemical Industries Limited. Polymeric styrene or alkyl methacrylate copolymers made by 3 stage granular polymerization process. 3,458,603, 7-29-69, Cl. 260-881.
Griffin, Brian William; and Simons, William Richard, to Smiths Industries Limited. Rate gyroscopes. 3,469,458, 9-30-69, Cl. 74-5.46
Griffin, Charles B.: *See—*
Jordan, Bertram L.; Mitchell, John D.; Harrington, Joseph J.; Griffin, Charles B.; and Hall, William R.,3,482,614.
Griffin, Dale Miller, Jr.: *See—*
Clarke, Ray Allen; and Griffin, Dale Miller, Jr.,3,479,192.
Griffin, David A.: *See—*
Griffin, Anthony L.; and Griffin, David A.,3,462,144.
Griffin, Donald H., to Fli-Back Company, Inc., The. Pearlescent, phosphorescent balls and methods for making the same. 3,445,551, 5-20-69, Cl. 264-21.
Griffin, Edward J.: *See—*
Leibson, Abraham; and Griffin, Edward J.,3,423,005.
Griffin, Francis D., to United States of America, National Aeronautics and Space Administration. Device for determining the accuracy of the flare on a flared tube. 3,426,272, 2-4-69, Cl. 324-61.
Griffin, Gary A.: *See—*
Smythe, William J.; Shamos, Morris H.; and Griffin, Gary A.,3,480,369.
Griffin, Gary W.; and Kristinsson, Haukur, to Research Corporation. Process for preparing cyclic organic compounds. 3,445,357, 5-20-69, Cl. 204-158.
Griffin, Gordon Douglas. Seat belt safety system. 3,462,732, 8-19-69, Cl. 340-52.
Griffin, Gordon R.; and Meyer, Herbert, to Electro-Optical Systems, Inc. Passive bright pattern reticle. 3,446,561, 5-27-69, Cl. 356-147.
Griffin, Ira L., & Sons, Inc.: *See—*
Griffin, Ira L., Sr., 3,441,992.
Griffin, Ira L., Sr., 3,484,915.
Griffin, Ira L., Sr., to Griffin, Ira L., & Sons, Inc. Size applicator having auxiliary squeeze rolls. 3,441,992, 5-6-69, Cl. 28-28.
Griffin, Ira L., Sr., to Griffin, Ira L., & Sons, Inc. Size box with variable size level. 3,484,915, 12-23-69, Cl. 28-28.
Griffin, John R.: *See—*
Claybaugh, Billy E.; Griffin, John R.; and Watson, Albert T.,3,472,829.
Griffin, Kenneth R., to United Aircraft Corporation. Method of partial cavity mold forming. 3,463,844, 8-26-69, Cl. 264-89.
Griffin, Lindsay I., Jr., to Esso Research and Engineering Company. Process of operating fuel cell with excess naphtha fuel. 3,453,147, 7-1-69, Cl. 136-86.
Griffin, Lindsay I., Jr., to Esso Research and Engineering Company. Fuel cell and method for producing pulsating direct electrical current. 3,476,608, 11-4-69, Cl. 136-86.
Griffin, Richard H.: *See—*
Roberts, Earl W., Jr.; and Griffin, Richard H.,3,457,383.
Griffin, Robert M., to Sylvania Electric Products, Inc. Threadless lamp and base. 3,478,300, 11-11-69, Cl. 339-72.
Griffin, Thomas A.; Humrick, Richard J.; and Hill, Edwin R., to Kewanee Oil Company. Process of attaching a collector grid to a photovoltaic cell. 3,442,007, 5-6-69, Cl. 29-472.9
Griffin, William D.: *See—*
Barton, Oliver A.; Griffin, William D.; Lund, Richard B.; Vitrone, John; and Oser, Zalik,3,483,164.
Griffin, William P., Jr., to Sun Oil Company. Dimerization of olefin hydrocarbons. 3,467,726, 9-16-69, Cl. 260-683.15
Griffin, William P., Jr.; and Butte, Walter A., Jr., to Sun Oil Company. Catalyst system and process for polymerization of olefins. 3,485,892, 12-23-69, Cl. 260-683.15
Griffin, William P., Jr.: *See—*
Eberhardt, Gert G.; and Griffin, William P., Jr.,3,459,825.
Eberhardt, Gert G.; and Griffin, William P., Jr.,3,472,911.
Griffin, William S., to United States of America, National Aeronautics and Space Administration. Fluid jet amplifier. 3,420,253, 1-7-69, Cl. 137-81.5
Griffing, Margaret E.; Lamb, Frances W.; and Stephens, Ruth E., to Ethyl Corporation. Method of controlling exhaust emission. 3,449,063, 6-10-69, Cl. 23-2.
Griffis, Daniel L.: *See—*
Bunner, James E.; and Griffis, Daniel L.,3,466,480.
Griffith, Charles Fitzroy: *See—*
Dickinson, George Alfred; and Griffith, Charles Fitzroy,3,445,217.
Griffith, David K.: *See—*
Baerhold, Carl O.; and Griffith, David K.,3,450,324.
Griffith, Errol Robert: *See—*
Markowitz, Jerome; Griffith, Errol Robert; and Wetherhold, James Richard,3,445,579.
Griffith, Errol R., to Allen Organ Company. Percussion type electronic musical instrument. 3,439,568, 4-22-69, Cl. 84-1.01
Griffith, George L., to Commercial Solvents Corporation. Explosives containing an impact-sensitive liquid nitrated polyol and trimethyloethane trinitrate and process of conitrating mixtures of polyols and trimethylolethane. 3,423,256, 1-21-69, Cl. 149-2.
Griffith, George L., to Commercial Solvents Corporation. Process for continuous automated vibrational dying of explosives and apparatus. 3,456,357, 7-22-69, Cl. 34-28.
Griffith, George L.; and Schwoyer, William L., to Commercial Solvents Corporation. Safe aqueous slurries of particulate nitrated explosives and polyacrylamides. 3,457,128, 7-22-69, Cl. 149-93.
Griffith, Joseph W.: *See—*
Frey, Albert M.; and Griffith, Joseph W.,3,448,205.
Griffith Laboratories, Incorporated, The: *See—*
Sair, Louis, 3,440,054.
Ziegler, John A., 3,464,831.
Ziegler, John A., 3,486,904.
Griffith, Lionell K., to Baxter Laboratories, Inc. Biopsy instrument. 3,477,423, 11-11-69, Cl. 128-2.
Griffith, Osbie H.: *See—*
McConnell, Harden M.; and Griffith, Osbie H.,3,481,952.
Griffith, Paul H.: *See—*
Schwiebert, Phillip D.; and Griffith, Paul H.,3,454,260.
Griffith, Randall E.: *See—*
Adams, Cecil E.; Griffith, Randall E.; Miller, Charles R.; and Wilcox, Jack W.,3,481,276.
Griffith, Richard W., to Sun Shipbuilding & Dry Dock Company. Cargo handling apparatus. 3,428,354, 2-18-69, Cl. 294-67.
Griffith, Robert C.; and Goodall, David A., to Litton Systems, Inc. Illumination intensity control circuit for optical displays. 3,486,067, 12-23-69, Cl. 315-84.6
Griffith, Roland K.: *See—*
Derbyshire, Rodney L.; and Griffith, Roland K.,3,448,182.
Griffith, Ross T., to North American Aluminum Corporation. Conveyor. 3,441,123, 4-29-69, Cl. 198-195.
Griffith, Russell K., to Standard Oil Company, The (Ohio). Polymerization process. 3,462,355, 8-19-69, Cl. 204-159.23
Griffith, Russell K.; and Zorska, Roman, to Standard Oil Company, The (Ohio). Process for preparation of β-chloromethacrylonitrile. 3,481,970, 12-2-69, Cl. 260-465.7
Griffith, Walter L. Machine for applying high consistency fluids and semisolids. 3,451,598, 6-24-69, Cl. 222-485.
Griffith, William Alexander; Link, Paul Eugene; and Burns, Benny Ray, to Phelps Dodge Corporation. Continuous slurry sampler and deaerator. 3,464,272, 9-2-69, Cl. 73-423.
Griffith, William J.: *See—*
Falterman, Charles W.; and Griffith, William J.,3,477,373.
Griffith, William S., to Martin-Marietta Corporation. Method for fixing phthalocyanine dyestuffs on textile fibers. 3,420,615, 1-7-69, Cl. 8-37.
Griffiths, Clifford H.; Sang, Harry M.; and Champness, Clifford H., to Noranda Mines Limited. Single crystal selenium rectifier. 3,473,095, 10-14-69, Cl. 317-241.

Griffiths, Darrell J. L.; Miller, Kenyon W.; and Nikkel, Willem A., to West Virginia Pulp and Paper Company. Method for manufacturing corrugated board. 3,434,901, 3-25-69, Cl. 156-210.
Griffiths Electronics, Inc.: *See*—
Griffiths, Leighton E., 3,426,413.
Griffiths, Emil S., to CMP Industries, Inc. Alloy composition and method of forming the same. 3,464,817, 9-2-69, Cl. 75-171.
Griffiths, Francis P., to United States of America, Agriculture. Process for reactivating polyamide resin used in debittering citrus juices. 3,463,763, 8-26-69, Cl. 260-78.
Griffiths, Geoffrey; and Parsons, Brian Neville, to Imperial Chemical Industries Limited. Reactive monoazo dyestuffs containing two cholorotriazine groups. 3,474,084, 10-21-69, Cl. 260-153.
Griffiths, Henry W.: *See*—
Nelson, Alfred M.; and Griffiths, Henry W.,3,474,428.
Griffiths, Henry W., to Magnavox Company, The. Magneto-optical transducer. 3,474,431, 10-21-69, Cl. 340-174.1
Griffiths, James E.; Pao, Yoh-Han; and Zitter, Robert N., to Bell Telephone Laboratories, Incorporated. Method and apparatus for measuring light signals of low intensity by utilization of shot noise. 3,426,208, 2-4-69, Cl. 250-200.
Griffiths, John H.; and Poulson, Barrie K., to Instron Limited. Optical means for following the relative movement of two marks on a specimen during tensile testing. 3,435,231, 3-25-69, Cl. 250-201.
Griffiths, Leighton E., to Griffiths Electronics, Inc. Method of making a cathode-grid assembly. 3,426,413, 2-11-69, Cl. 29-25.14
Griffiths, Norman J.: *See*—
Shephard, Harry D., Jr.; and Griffiths, Norman J., deceased,3,432,138.
Griffiths, Robert I.: *See*—
Brinkley, Max D.; and Griffiths, Robert I.,3,467,063.
Griffiths, Samuel T.: *See*—
Moss, Ronald; Campbell, Kenneth; and Griffiths, Samuel T.,3,481,866.
Griffo, Joseph B., to Rotron Incorporated. Flow meter calibration apparatus. 3,452,596, 7-1-69, Cl. 73-230.
Griffolyn Company, Inc.: *See*—
Bjorksten, Johan A.; and Kaufman, William A., 3,467,999.
Schoening, Werner Peter, 3,480,059.
Griffon, Henri. Dehydration of potatoes. 3,425,849, 2-4-69, Cl. 99-207.
Griffon, Henri. Process for the dehydration of substances of animal or vegetable origin. 3,431,119, 3-4-69, Cl. 99-204.
Griffon, Henri. Cooking apparatus. 3,440,953, 4-29-69, Cl. 99-355.
Grifo, Richard A.; Walts, John M.; and Schenck, Leslie M., to GAF Corporation. Detergent composition. 3,468,805, 9-23-69, Cl. 252-152.
Grigat, Ernst: *See*—
Heiss, Rudolf; Grigat, Ernst; Bocker, Ernst; and Hermann, Gunther,3,458,639.
Grigat, Ernst; and Putter, Rolf, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of substituted triazines. 3,428,636, 2-18-69, Cl. 260-248.
Grigat, Ernst; Schminke, Hans-Dieter; and Putter, Rolf, to Farbenfabriken Bayer Aktiengesellschaft. Phenolic resins containing cyanic ester groups. 3,448,079, 6-3-69, Cl. 260-59.
Griggs, Chester Olin. Magnetic deflection ball game. 3,448,982, 6-10-69, Cl. 273-119.
Griggs, Elmer L. Classification gage. 3,464,119, 9-2-69, Cl. 33-174.
Griggs Equipment, Inc.: *See*—
Motl, Anton; and Littlepage, James H., 3,476,342.
Griggs, Sam F. Self-regulating skimming weir apparatus having a constant discharge at any desired setting. 3,469,404, 9-30-69, Cl. 61-23.
Grigor, James: *See*—
Peters, John; and Grigor, James,3,432,554.
Grigor, James; and Peters, John, to United States of America, Navy, mesne. Hydroxy difluoramino derivatives of cyclohexane or cyclopentane. 3,484,486, 12-16-69, Cl. 260-563.
Grigsby, Charles E.; Long, Chester L.; and Hose, Alexander V., to Newport News Shipbuilding and Dry Dock Company, mesne. Shut-off valve having main and back-up valves. 3,437,111, 4-8-69, Cl. 137-613.
Grigsby, Ray, to Wortham Machinery Co., mesne. Attachment for lift truck. 3,455,476, 7-15-69, Cl. 214-620.
Grillot, Gerald F.: *See*—
Lau, Philip T. S.; and Grillot, Gerald F.,3,453,330.
Grillot, Homer N., to International Harvester Company. Knotter and jaw. 3,468,575, 9-23-69, Cl. 289-11.
Grillot, Homer N.: *See*—
Pool, Stuart D.; Everett, Charles V.; and Grillot, Homer N.,3,469,773.
Grim, David P.: *See*—
Kemp, Willard E.; and Grim, David P.,3,471,043.
Grimaldi, Pierre, to Societe de Prospection Electrique Schlumberger S.A. Flowmeter apparatus for measuring flow rate and direction. 3,433,070, 3-18-69, Cl. 73-229.
Grimar, Inc.: *See*—
Grise, Frederick G. J., 3,422,844.
Hickman, Albert F., 3,437,347.
Grimes, David W. Force application device. 3,457,840, 7-29-69, Cl. 92-111.
Grimes, James E.; and Muller, Michael, to Babcock Electronics Corporation, mesne. Armature damping structure. 3,443,253, 5-6-69, Cl. 335-157.
Grimes Marion E. V-shaped snowplow for attachment to garden tractors. 3,436,847, 4-8-69, Cl. 37-44.
Grimes, Marion E. Floating hitch construction. 3,470,631, 10-7-69, Cl. 37-42.
Grimes, Milton J.; Henrikson, Donald F.; and Meisel, Herbert R., to RCA Corporation. Method of providing contact leads for semiconductors. 3,478,420, 11-18-69, Cl. 29-588.
Grimes, Milton J.; and Meisel, Herbert R., to RCA Corporation. Heat dissipator. 3,465,212, 9-2-69, Cl. 317-234.
Grimes, Ralph. Rack for bowling balls and the like. 3,436,078, 4-1-69, Cl. 273-47.
Grimes, Warren R.: *See*—
Shaffer, James H.; Moulton, David M.; and Grimes, Warren R.,3,473,897.
Grimm, Donald C.; and Pierce, Leonard, Jr., to Union Carbide Corporation. Lubricating compositions including a polymer which contains a salt or amide of a polyetheramine and an acid. 3,472,771, 10-14-69, Cl. 252-34.
Grimm, Donald C.; and Pierce, Leonard, Jr., to Union Carbide Corporation. Lubricating compositions including a polymer which contains polymerized sulfine. 3,483,123, 12-9-69, Cl. 252-48.6
Grimm, Donald C.; and Pierce, Leonard, Jr., to Union Carbide Corporation. Lubricating compositions including a polymer which contains an ammonium sulfate salt. 3,485,755, 12-23-69, Cl. 252-47.5
Grimm, Harold; and Zuckerman, Ira, to Panther Machine Corporation. Fold-forming assembly for cloth spreading machine. 3,473,798, 10-21-69, Cl. 270-31.
Grimm, James J.; and Valihura, Robert J. Marking tag and method of making and attaching the same. 3,442,037, 5-6-69, Cl. 40-2.
Grimm, James J.: *See*—
Trumbull, Harold E.; and Grimm, James J.,3,460,472.
Grimm, Wilhelm; Guntsch, Fritz Rudolf; Strauss, Werner; and Luther, Gunther, to Telefunken Patentverwertungsgesellschaft m.b.H. Document processing arrangement. 3,426,179, 2-4-69, Cl. 235-61.11
Grimm, William K. Boundary barrier. 3,459,280, 8-5-69, Cl. 188-32.
Grimm, Wolfgang: *See*—
Goemann, Juergen; and Grimm, Wolfgang,3,479,913.
Grimme, Brooks H.; and McCarley, Herbert R., to United States of America, Army. Analog accelerometer having a digital output signal. 3,459,053, 8-5-69, Cl. 73-517.
Grimme, Brooks H.; and Oddo, Joseph A., to United States of America, Army. Electrical pulsing circuit. 3,445,678, 5-20-69, Cl. 307-132.
Grimmeisen, Theodore Louis, to Societe Th. Grimmeisen. Moulds for ventilated footwear. 3,421,183, 1-14-69, Cl. 18-42.
Grimmeiss, Hermann Georg, to North American Philips Company, Inc. Junction photocell having intermediate level and auxiliary light source to excite intermediate level. 3,430,050, 2-25-69, Cl. 250-211.
Grimmeiss, Hermann Georg; and Scholz, Heinz, to U.S. Philips Corporation, mesne. Device for detecting radiation. 3,470,379, 9-30-69, Cl. 250-211.
Grimmel, Harry W.; and St. Alban, Jonas, to American Hoechst Corporation. Reactive azo dyes. 3,445,451, 5-20-69, Cl. 260-148.
Grimmer, Elmer J., to Westinghouse Electric Corporation. Condenser bushing. 3,462,545, 8-19-69, Cl. 174-143.
Grimmer, John E. Air compressor apparatus and method. 3,462,074, 8-19-69, Cl. 230-181.
Grimoldi, Ranoldo H.; and Powers, Joseph E., to Kaiser Steel Corporation. Combined apparatus for positioning, holding and operating on a workpiece. 3,430,317, 3-4-69, Cl. 29-26.
Grimshaw, James F., to Bausch & Lomb, Incorporated. Sample container for automatic sampling apparatus. 3,449,959, 6-17-69, Cl. 73-423.
Grimsley, Ralph Leroy: *See*—
Every, Richard L.; and Grimsley, Ralph Leroy,3,445,181.
Grimsley, Ralph Leroy; and Every, Richard L., to Continental Oil Company. Conversion of sulfur dioxide to ammonium sulfate. 3,472,618, 10-14-69, Cl. 23-119.
Grimsley, Ralph Leroy; and Every, Richard L., to Continental Oil Company. Manufacture of amine thiosulfates. 3,483,267, 12-9-69, Cl. 260-579.
Grimwood, Terence J.: *See*—
McWilliam, Gordon L.; Dudley, Dennis W.; Grimwood, Terence J.; and Holmes, John Berwick,3,443,177.
Grindahl, George A.; and Pierce, Ogden R., to Dow Corning Corporation. Process for the polymerization of perfluoroalkyl- substituted triazines and products thereof. 3,453,275, 7-1-69, Cl. 260-248.
Grindell, Duncan Holmes, to Associated Electrical Industries Limited. Vacuum switch. 3,485,978, 12-23-69, Cl. 200-144.
Grindinger, Gerard R., to Warwick Electronics, Inc. Music system. 3,430,530, 3-4-69, Cl. 84-471.

Grindle, Baline D.; and Schmid, Hermann, to General Electric Company. Pulse width multiplier or divider. 3,456,099, 7-15-69, Cl. 235-195.
Grindrod, Harold Ernest; and Smith, John Alfred, to General Engineering Co., (Radcliffe) Limited. Rotary vacuum pumps. 3,423,014, 1-21-69, Cl. 230-207.
Grindrod, Paul E.: *See*—
Gifford, Maurice J.; and Grindrod, Paul E.,3,420,679.
Gring, John L., to Sinclair Research, Inc. Method of preparing novel multi-component heterogeneous contact material. 3,445,401, 5-20-69, Cl. 252-455.
Grinnell Corporation: *See*—
Balhouse, Harold J., 3,479,696.
Boteler, Henry W., 3,471,124.
Mears, James W.; and Merdinyan, Philip H., 3,420,310.
Milligan, Gordon H., 3,477,694.
Grinninger, Lowell D.; and Greenberg, Harry, to National Distillers and Chemical Corporation. Molecular weight control of polymers. 3,423,379, 1-21-69, Cl. 260-82.1
Grinninger, Lowell D.; and Meeks, Lawrence A., to National Distillers and Chemical Corporation. Molecular weight control process for polymers. 3,448,093, 6-3-69, Cl. 260-80.7
Grinonneau, William C.: *See*—
Bayer, John W.; Gagnon, Donald W.; and Grinonneau, William C.,3,427,257.
Bayer, John W.; Gagnon, Donald W.; Grinonneau, William C.; and Santiago, Edgardo,3,476,732.
Grinstead, Robert R., to Dow Chemical Company, The. Selective extraction of boron from aqueus solutions. 3,424,563, 1-28-69, Cl. 23-312.
Grinstead, Robert R., to Dow Chemical Company, The. Calcium chloride and boric acid extraction from magnesium chloride brines using diols and catechols. 3,433,604, 3-18-69, Cl. 23-312.
Griot, Rudolf G., to Sandoz Inc. Basic esters of malonic acid. 3,448,105, 6-3-69, Cl. 260-246.
Griot, Rudolf G., to Sandoz Inc. Derivatives of isobutyric acid. 3,448,110, 6-3-69, Cl. 260-294.3
Griot, Rudolf G., to Sandoz Inc.Derivatives of bis-(*p*-chlorophenoxy) acetic acid. 3,454,581, 7-8-69, Cl. 260-294.3
Griot, Rudolf G., to Sandoz Inc.N,N'[2,2-bis-(p-chlorophenoxy) trimethylene]dipyrrolidine and dipiperidine. 3,454,584, 7-8-69, Cl. 260-294.7
Griot, Rudolf G., to Sandoz Inc. Bicyclodecenes containing three ring nitrogen atoms. 3,470,198, 9-30-69, Cl. 260-309.7
Griot, Rudolf G., to Sandoz Inc. Derivatives of malonic acid. 3,474,128, 10-21-69, Cl. 260-473.
Griot, Rufolf G., to Sandoz Inc. Production of heptafluoroisopropyl-allyl ethers. 3,453,334, 7-1-69, Cl. 260-614.
Grip, Erik Konrad, to Facit AB. Printing calculating machines. 3,451,617, 6-24-69, Cl. 235-60.
Grip, Erik Konrad, to Facit AB. Arithmetic unit for calculating machines of the ten-button key set type. 3,484,041, 12-16-69, Cl. 235-63.
Gris, Pierre A.: *See*—
Lamy, Jacques E.; and Gris, Pierre A.,3,432,062.
Grisar, Johann Martin; and Hudak, William J., to Richardson-Merrell Inc. Aminoalkenylbenzenesulfonamides. 3,439,034, 4-15-69, Cl. 260-556.
Grisar, Johann Martin; and Hudak, William J., to Richardson-Merrell Inc. Aminoalkanolbenzenesulfonamides. 3,439,035, 4-15-69, Cl. 260-556.
Grise, Frederick G. J., to Grimar, Inc. Flexible check valve. 3,422,844, 1-21-69, Cl. 137-525.1
Grise, Frederick G. J. Aerial projectile. 3,437,340, 4-8-69, Cl. 273-183.
Grisebach, Hans-Theodor, to Gewerkschaft Eisenhutte Westfalia. Automatic sequence cycle controlled advanceable mining prop arrangement. 3,434,389, 3-25-69, Cl. 91-36.
Grishin, Peter F.; and Adams, Andrew C. Roberts Company Roving frame. 3,472,013, 10-14-69, Cl. 57-70.
Grishman, Simon, to Gluckin, William, & Company, Inc. Brassiere. 3,465,755, 9-9-69, Cl. 128-425.
Grissom, John T.: *See*—
Koehler, Dale R.; and Grissom, John T.,3,479,507.
Koehler, Dale R.; Grissom, John T.; and Polk, Robert G.,3,445,591.
Griste, Fredric S., to Penn Fishing Tackle Mfg. Co. Fishing reel with friction drag. 3,425,644, 2-4-69, Cl. 242-84.45
Griswold, Augustus W.: *See*—
Bahr, Karl E.; Griswold, Augustus W.; Price, Aldon A.; and Young, Charles R.,3,460,824.
Griswold Controls: *See*—
Yates, Harry D.; and Lieding, Calvin A., 3,440,434.
Griswold, Douglas A.; Dick, Edward F.; and Kesser, Charles M., to Westinghouse Electric Corporation. Implosion protection for cathode ray tubes. 3,456,076, 7-15-69, Cl. 178-7.82
Griswold, Edward A. Photoelectric cell installation for signal system and method of installing same. 3,483,507, 12-9-69, Cl. 340-38.
Griswold, Owen H.; and Hitchcock, Richard E. Spherical plug valve. 3,477,691, 11-11-69, Cl. 251-172.
Gritsenko, Nikolai Demyanovich: *See*—
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Gritton, William R.: *See*—
Crookston, James A.; and Gritton, William R.,3,436,237.
Crookston, James A.; and Gritton, William R.,3,446,639.
Gritz, Edward E.: *See*—
Ropp, Richard C.; and Gritz, Edward E.,3,449,258.
Groat, Marshall O., to Kingsberry Homes Corporation. Process and apparatus for forming a building structure. 3,443,303, 5-13-69, Cl. 29-430.
Groat, Marshall O., to Kingsberry Homes Corporation. Process and apparatus for setting nails in elongated members. 3,479,734, 11-25-69, Cl. 29-525.
Groat, Thomas A. Apparatus and method for simulating electrical fault conditions in a protective relay system. 3,424,958, 1-28-69, Cl. 317-262.
Grob & Co. Aktiengesellschaft: *See*—
Koch, Bernhard R., 3,434,505.
Koch, Bernhard Robert, 3,424,205.
Koch, Bernhard Robert, 3,430,313.
Grob, William H. F.: *See*—
Canno, Leonard E.; and Grob, William H. F.,3,447,736.
Canno, Leonard E.; and Grob, William H. F.,3,464,620.
Grobe, Henry H., to Sun-Ray Burner Manufacturing Corporation. Power conversion burner head. 3,486,835, 12-30-69, Cl. 431-79.
Grobel, Lloyd P.: *See*—
Carson, Chester C.; Gibbs, Edward E.; and Grobel, Lloyd P.,3,428,838.
Grobel, Lloyd P.; and Carson, Chester C., to General Electric Company. Overheating detector for gas cooled electric machine. 3,427,880, 2-18-69, Cl. 73-339.
Grober, Abraham, to Victor Electric Wire & Cable Corporation. Electrical connector. 3,467,796, 9-16-69, Cl. 200-51.09
Groberg, John R. Method and apparatus for stacking hay and the like. 3,450,281, 6-17-69, Cl. 214-352.
Grobety, Francois, to Cadral S.A. Apparatus for grinding diamond or hard metal. 3,462,886, 8-26-69, Cl. 51-54.
Grobin, Allen W., Jr., to International Business Machines Corporation. Phosphite testing method. 3,425,805, 2-4-69, Cl. 23-230.
Groble, Kenneth K.: *See*—
Lorenzi, Donald E.; Groble, Kenneth K.; and Retsky, Michael W.,3,450,985.
Grobman, William; and Rullo, Gabriel N., to Harris-Intertype Corporation. Sheet feeding apparatus. 3,422,757, 1-21-69, Cl. 101-232.
Grobowski, Ben T., to Rugg, E. T., Company, The. V-Belt drive having special grooved idler pulley. 3,464,282, 9-2-69, Cl. 74-226.
Groby, Bernt H.C.: *See*—
Nyberg, Hugo C.L.; and Groby, Bernt H.C.,3,484,299.
Groce, Homer W.: *See*—
Meyer, Theodore J., Jr.; and Groce, Homer W.,3,434,440.
Groce, Homer W., to Wellman Industries, Inc. Textile card and lap feeding means. 3,443,286, 5-13-69, Cl. 19-105.
Groce, Homer W. Lap stop motion apparatus. 3,462,798, 8-26-69, Cl. 19-0.25
Grochowski, Raymond John: *See*—
Ryan, Charles Francis; and Grochowski, Raymond John,3,448,173.
Grode, Gerald A.: *See*—
Cooper, Charles W.; and Grode, Gerald A.,3,462,342.
Leininger, Robert I.; and Grode, Gerald A.,3,457,098.
Grodek, Raymond J.: *See*—
Hay, John O.; and Grodek, Raymond J.,3,472,613.
Grodnick, Herbert and Grodnick, Martin: *See*—
Zuczek, John F., 3,421,164.
Groebel, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologically effective substance and process for preparing it from ravensara aromatica. 3,478,147, 11-11-69, Cl. 424-195.
Groecela, Raymond: *See*—
Herzog, Hershel L.; Gebert, William H.; Murrill, Nathaniel M.; and Groecela, Raymond,3,463,793.
Groeger, Eugen, to Aero-Commerce G.m.b.H. Rotary piston apparatus. 3,430,573, 3-4-69, Cl. 103-129.
Groendijk, Hendrik: *See*—
Jonkers, Johannes Josephus Antonius; and Groendijk, Hendrik,3,484,269.
Groeneveld, Wilbur E.: *See*—
Stott, Ted; Gunyou, Lyman J.; Frushour, George V.; and Groeneveld, Wilbur E.,3,425,194.
Groeneweg, Abraham: *See*—
Bulthuis, Henricus Wilhelmus; and Groeneweg, Abraham,3,454,773.

Groening, Harvey F.: *See—*
McLeod, James E.; Taborosi, Steve; Groening, Harvey F.; and Riechers, Harold D.,3,469,938.
Groenke, Merlin A., to Portable Elevator Manufacturing Company. Adjustable shank assembly. 3,480,086, 11-25-69, Cl. 172-710.
Groenweghe, Leo C. D., to Monsanto Company. Preparation of organothiophosphorus halides. 3,457,307, 7-22-69, Cl. 260-543.
Groenweghe, Leo C. D., to Monsanto Company. Preparation of organothiophosphorus halides. 3,457,308, 7-22-69, Cl. 260-543.
Groenweghe, Leo C. D.: *See—*
Baker, Joseph W.; Groenweghe, Leo C. D.; and Stenseth, Raymond E.,3,457,305.
Groepler, Rudi, to Vickers-Zimmer Aktiengesellschaft, Planung und Bau von Industrieanlagen. Apparatus for granulating plastic string. 3,422,713, 1-21-69, Cl. 83-156.
Groes, James Dennis; and Arkless, Kenneth, to British Titan Products Company Limited. Process for the production of particulate titanium dioxide. 3,463,610, 8-26-69, Cl. 23-202.
Groetschel, Karl Maria. Mine roof support. 3,425,229, 2-4-69, Cl. 61-45.
Groetschel, Karl Maria. Roof supporting system for mine workings. 3,431,738, 3-11-69, Cl. 61-45.
Groetschel, Karl Maria. Roof supports for mine workings. 3,466,875, 9-16-69, Cl. 61-45.
Groetschel, Karl M. Roof supports for mine workings. 3,474,627, 10-28-69, Cl. 61-45.
Groff, Emory L.: *See—*
Bruehl, Anton, 3,462,960.
Groff, Emory L., Jr.: *See—*
Bruehl, Anton, 3,462,960.
Groff, Ralph W., Sr.: *See—*
Smith, Barton K.; Groff, Ralph W., Sr.; and Rodman, James B., Sr.,3,478,487.
Grogan, Anthony Frederick: *See—*
Dickson, Eric Winston; and Grogan, Anthony Frederick,3,467,593.
Grogan, Charles H.: *See—*
Rice, Leonard M.; and Grogan, Charles H.,3,432,499.
Grogler, Gerhard; and Windemuth, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Polymerization of isocyanates with ethylene imine catalysts. 3,450,676, 6-17-69, Cl. 260-77.5
Grohmann, August: *See—*
Croseck, Hans-Henning; and Grohmann, August,3,468,152.
Grohmann, Johannes: *See—*
Buchholz, Karl; Stahnecker, Erhard; Grohmann, Johannes; and Moeller, Rolf,3,468,820.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Weber, Heinz; and Willersinn, Herbert,3,457,204.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert,3,472,799.
Stahnecker, Erhard; and Grohmann, Johannes,3,428,579.
Stahnecker, Erhard; and Grohmann, Johannes,3,461,088.
Weber, Heinz; Burger, Heinz; Daumiller, Guenther; Willersinn, Herbert; and Grohmann, Johannes,3,420,786.
Grohoski, Edward G.: *See—*
Morton, Robert D.; and Grohoski, Edward G.,3,472,400.
Grohoski, Theodore S., to United States Time Corporation, The. Solar cell recharging means for a battery operated watch. 3,448,575, 6-10-69, Cl. 58-23.
Grolemund, John L.; and Friedman, Robert H., to Getty Oil Company. Waterflooding method and method of detecting fluid flow between zones of different pressure. 3,454,094, 7-8-69, Cl. 166-250.
Grolig, Johann: *See—*
Kronig, Walter; and Grolig, Johann,3,451,905.
Groll, Walter H. Adjustable lawnmower guard. 3,432,183, 3-11-69, Cl. 280-150.
Grolleau, Gerard. Electronic firing mechanism. 3,453,764, 7-8-69, Cl. 42-84.
Grolman, Bernard; and Lawton, Kenneth C., to American Optical Corporation, mesne. Apparatus for viewing interior parts of an eye and holographically recording phase and amilitude information received therefrom. 3,460,887, 8-12-69, Cl. 351-7.
Grombka, Walter J.; and Allebach, Gene E., to National Machinery Company, The. Press transfer mechanism. 3,422,657, 1-21-69, Cl. 72-405.
Gromov, Anatoly Pavlovich; Lukasheva, Evgenia Nikolaevna; Glazkov, Anatoly Vasilievich; Livshits, Abram Lazarevich; Pozhalkin, Vladimir Vasilievich; Polotsky, Vadim Evgenievich; and Scherbak, Mikhail Venediktovich. Method of electroerosion machining a metal workpiece in a dielectric fluid resting on an immiscible, heavier, electrolytic solution. 3,472,993, 10-14-69, Cl. 219-69.
Grondin, Ernest, to Drummond Automotive Inc. Tire chains. 3,480,063, 11-25-69, Cl. 152-230.
Grondverbetering-En Ontginningmaalschappij N.V.: *See—*
van Oost, Willem Cornelis, 3,442,238.
Gronemeyer, Erich W.: *See—*
Kutik, Louis F., 3,446,341.
Gronemeyer, Erich W.: *See—*
Kutik, Louis F.; and Gronemeyer, Erich W.,3,467,990.
Gronger Associates: *See—*
Hoover, William G., 3,449,591.
Gronlund, Kaj Anders, to Aktiebolaget Atomenergi. Fluid distributing apparatus. 3,447,576, 6-3-69, Cl. 141-167.
Gronski, Chester A.: *See—*
Darr, Frank M.; and Gronski, Chester A.,3,462,205.
Groom, Carl M.: *See—*
Seiwatz, Henry; and Groom, Carl M.,3,448,377.
Groom, Nelson J.: *See—*
Hatcher, Norman M.; Groom, Nelson J.; and Newcomb, Arthur L., Jr.,3,437,394.
Groom, Nelson J., to United States of America, National Aeronautics and Space Administration. Variable pulse width multiplier. 3,473,050, 10-14-69, Cl. 307-267.
Groom, Simeon H., to Empisal (Proprietary) Limited. Needle bed for domestic knitting machines. 3,446,040, 5-27-69, Cl. 66-115.
Groom, Simeon H., to Empisal (Proprietary) Limited. Needle-beds for domestic knitting machines. 3,448,593, 6-10-69, Cl. 66-115.
Grooming Developers, Inc.: *See—*
Cournoyer, Hector S., 3,481,345.
Grooms, Franklin H.; and Wagner, Paul D., to Allis-Chalmers Manufacturing Company. Multiplex generator system. 3,441,764, 4-29-69, Cl. 310-198.
Groos, Horst Hans, to Schloemann Aktiengesellschaft. Devices for preparing dies and conveying them to the die carrier in extrusion presses. 3,465,565, 9-9-69, Cl. 72-263.
Groos, Horst Hans, to Schloemann Aktiengesellschaft. Inductively heated billet-containers for extrusion presses. 3,478,562, 11-18-69, Cl. 72-272.
Groos, Horst Hans; Linders, Karl; and Seidel, Karl, to Schloemann Aktiengesellschaft. Production of hollow sections on an extrusion press. 3,440,854, 4-29-69, Cl. 72-265.
Groos, Horst Hans; Niggemeier, Friedrich; and Stapel, Heinz, to Schloemann Aktiengesellschaft. Tube extrusion presses with a retractable die carrier. 3,475,941, 11-4-69, Cl. 72-257.
Groos, Richard T., to Viking Corporation, The. Fire protection systems and sprinkler head. 3,454,097, 7-8-69, Cl. 169-38.
Grooss, Frank A.: *See—*
Strabala, Joseph L.; and Grooss, Frank A.,3,425,497.
Groov-Pin Corporation: *See—*
Bosse, Robert W., 3,430,531.
Bosse, Robert W., 3,460,664.
Groover, Edwin F.; Reid, Guy T.; Wood, John H.; Pharr, Roger H.; and Mize, Charles A. Apparatus and method for processing poultry. 3,474,490, 10-28-69, Cl. 17-11.
Grop, Olof Sune. Device for refilling the fuel container of cigarette lighters. 3,425,466, 2-4-69, Cl. 141-98.
Grop, Olof Sune. Gas lighter having a lever actuated expansible valve means. 3,441,358, 4-29-69, Cl. 431-143.
Grop, Olof Sune, to Suenska-Tandsticks Aktiebolaget. Gas cigarette lighters. 3,484,834, 12-16-69, Cl. 431-277.
Gropp, Walter E.; and Landman, Dirk, to Berg Electronics, Inc. Method of and apparatus for making terminals for making electrical connections. 3,436,946, 4-8-69, Cl. 72-324.
Groppe, Wayne A.: *See—*
Arrowood, Joseph L.; Groppe, Wayne A.; and Lee, William W., Jr.,3,453,050.
Groppenbacher, Gregor: *See—*
Kern, Rudolf; Groppenbacher, Gregor; and Scheurer, Hans,3,441,525.
Groppini, Diego, to Dilmine S.p.A. Process and device for drawing truncated-cone shaped bodies and the like. 3,483,728, 12-16-69, Cl. 72-250.
Gros, Harold Joseph, to Copolymer Rubber & Chemical Corporation. Inhibiting thermal polymerization and the growth of popcorn polymer. 3,426,063, 2-4-69, Cl. 260-666.5
Grosbard, Gregory, 15 1/4% to Salazar, Francis R. 15 1/4% to Brooks, Max, and 2 1/2% to Ward, Texas. Magnetic accelerator. 3,480,811, 11-25-69, Cl. 310-156.
Grosch, Walter: *See—*
Dehnert, Johannes; and Grosch, Walter,3,427,119.
Groschke, Albert C., to Agway, Inc. Method of treating soybeans. 3,434,845, 3-25-69, Cl. 99-2.
Groschopp, Heinz: *See—*
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf,3,432,337.
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf,3,454,407.
Groschopp, Herbert Gerhard; Hillbom, Per Tage Borje; and Nilsson, Bengt Erik, to Aktiebolaget Electrolux. Brush holder. 3,474,274, 10-21-69, Cl. 310-242.
Grosclaude, Etienne: *See—*
Jeantils, Claude; Grosclaude, Etienne; Garlot, Christian; and Petruzzi, Nicolino,3,459,761.
Grosclaude, Rene; and Andrey, Pierre, to Laboratoires Vifor S.A. Apparatus for the infusion of liquids into a body. 3,482,572, 12-9-69, Cl. 128-214.
Grose, Ansel B. Fuel control valve. 3,424,431, 1-28-69, Cl. 251-333.

Grosh, James L., to United Aircraft Corporation. Composite reinforced plastic pipe. 3,470,917, 10-7-69, Cl. 138-145.
Grosh, James L., to United Aircraft Corporation. Composite reinforced plastic pipe. 3,483,896, 12-16-69, Cl. 138-141.
Grosh, James L.; and Frey, Christian M., to United Aircraft Corporation. Process of making a glass fiber vessel having a clevis joint. 3,423,816, 1-28-69, Cl. 29-416.
Grosjean, Arnold, to Paillard S.A. Locking device for an adjustable optical element. 3,477,777, 11-11-69, Cl. 350-255.
Grosjean, Marc, to Roussel-Uclaf. Method and apparatus for the measurement of magnetic circular dichroism. 3,442,592, 5-6-69, Cl. 356-80.
Grosjean, Marc, to Les Laboratoires Francais de Chimiotherapie. Recording apparatus for the measurement of circular dichroism. 3,471,240, 10-7-69, Cl. 356-117.
Grosjean, Milton O.: *See—*
Burke, Clarence J.; and Grosjean, Milton O.,3,435,885.
Grosko, John A., to United States Steel Corporation. Sliding gate for metal-holding vessel. 3,480,186, 11-25-69, Cl. 222-512.
Groskopfs, Ernest, to De Havilland Aircraft of Canada, Limited, The. Storable tubular extensible member device. 3,434,674, 3-25-69, Cl. 242-54.
Gross, Arthur: *See—*
Moore, William A.; Gross, Arthur; and Skei, Edward C.,3,485,475.
Gross, Carl-Axel. Dental articles. 3,478,432, 11-18-69, Cl. 32-35.
Gross, Chris, to United States of America, National Aeronautics and Space Administration. Method of temperature compensating semiconductor strain gages. 3,468,727, 9-23-69, Cl. 148-13.
Gross, Frank D.: *See—*
Rudisch, Walter E.; and Gross, Frank D.,3,441,824.
Gross, Franz, to Siemens Aktiengesellschaft. Frequency modulation tube for the generation or amplification of millimeter waves with a delay line acting as a line resonator. 3,436,586, 4-1-69, Cl. 315-3.5
Gross, Fredrich, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Pipe fitting. 3,441,292, 4-29-69, Cl. 285-39.
Gross, George P.: *See—*
Massa, Victor F.; and Gross, George P.,3,460,901.
Gross, Gerhard: *See—*
Muncke, Ludwig; Buchmuller, Josef; and Gross, Gerhard,3,486,769.
Gross, Hans Werner; Ehrhardt, Erwin; and Baron, Gerhard, to Metallgesellschaft Aktiengesellschaft. Conversion of liquid hydrocarbons into fuel gas or water gas by a thermal or catalytic splitting. 3,468,641, 9-23-69, Cl. 48-214.
Gross, Hans-Werner; Schwedler, Gottfried; and Muller, Eckart, to Metallgesellschaft, Aktiengesellschaft. Liquid-liquid extraction. 3,437,575, 4-8-69, Cl. 204-186.
Gross, Henry; and Gross, Samuel. Cash registers and like adding machines. 3,429,503, 2-25-69, Cl. 235-14.
Gross, James E. Guitar converter. 3,486,408, 12-30-69, Cl. 84-267.
Gross, Jenoe, to Sealomatic Electronics Corp. Over center crank means for producing reciprocating motion. 3,431,822, 3-11-69, Cl. 91-210.
Gross, Jerome A., to Clayton Corporation. Dispensing valve having rubber-like dispensing head. 3,450,314, 6-17-69, Cl. 222-402.24
Gross, Jerome A., to Clayton Corporation, mesne. Dip-tube apparatus for valved dispensing of a plurality of fluids. 3,456,846, 7-22-69, Cl. 222-94.
Gross, Jerome A.: *See—*
Huling, James K.; Gross, Jerome A.; and Hug, Richard C.,3,462,047.
Gross, Johann: *See—*
Auville, Calvin; and Gross, Johann,3,434,306.
Auville, Calvin; and Gross, Johann,3,442,099.
Gross, Johann, to Blech- und Metallwarenfabrik, Robert Fischbach. Blower with electric drive. 3,430,846, 3-4-69, Cl. 230-117.
Gross, Joseph Idadore: *See—*
Buff, Fred; Gross, Joseph Idadore; and Healy, Lawrence William,3,477,898.
Gross, Leo: *See—*
Hoffman, Robert; and Gross, Leo,3,461,942.
Gross, Maynard C.; Gawin, Adolph J.; and Smitzer, Louis A., to Bell & Howell Company. Microfiche reader. 3,446,552, 5-27-69, Cl. 353-27.
Gross, Norton M. Natural archery assist device. 3,446,200, 5-27-69, Cl. 124-24.
Gross, Otto: *See—*
Becker-Boost, Erich Heinz; Gross, Otto; and Bill, Walter Heinrich,3,427,253.
Gross, Richard: *See—*
Braun, Oskar; Gross, Richard; and Nakaten, Herbert,3,446,569.
Gross, Robert I.; and Cooper, Roydon C., to Pall Corporation. Temperature and pressure responsive valve. 3,428,251, 2-18-69, Cl. 236-92.
Gross, Samuel: *See—*
Gross, Henry; and Gross, Samuel,3,429,503.
Gross, Seymour; Downes, William A.; and Rakoff, Frank B., to United States of America, Navy. Depth control system for towed body. 3,469,821, 9-30-69, Cl. 254-173.
Gross, Thomas, to Polaroid Corporation. Exposure control means. 3,473,453, 10-21-69, Cl. 95-10.
Gross, William E. Gas sorption unit. 3,430,420, 3-4-69, Cl. 55-387.
Gross, William; and Stewart, Wellington B., to Medical Laboratory Automation, Inc. Method and means of determining endpoint times in blood clotting tests. 3,458,287, 7-29-69, Cl. 23-230.
Grossberg, Imre. Press control system. 3,485,072, 12-23-69, Cl. 72-30.
Grosse, Aristid V., to Reynolds Metals Company. High melt engine of the rotary type. 3,437,732, 4-8-69, Cl. 13-9.
Grosse, Karl: *See—*
Frost, Herbert; Pietsch, Guenter; and Grosse, Karl,3,483,668.
Grosse-Oetringhaus, Hellmuth, to Shell Oil Company. Corrosion-inhibited hydrocarbon compositions. 3,469,955, 9-30-69, Cl. 44-63.
Grosse Rhode, Tony W. Dump load bed for vehicles. 3,447,834, 6-3-69, Cl. 298-22.
Grosse-Entrup, Hubert: *See—*
Geisthoff, Hubert; Welshof, Hans-Heinrich; and Grosse-Entrup, Hubert,3,470,712.
Grossen, Harry W.: *See—*
Bell, Kenneth; and Grossen, Harry W.,3,477,393.
Grosser, Frederick: *See—*
Barabas, Eugene S.; and Grosser, Frederick,3,462,385.
Barabas, Eugene S.; and Grosser, Frederick,3,467,613.
Barabas, Eugene S.; and Grosser, Frederick,3,468,832.
Leibowitz, Marvin R.; and Grosser, Frederick,3,479,417.
Merijan, Ashot; and Grosser, Frederick,3,423,367.
Merijan, Ashot; and Grosser, Frederick,3,423,381.
Merijan, Ashot; and Grosser, Frederick,3,474,110.
Merijan, Ashot; and Grosser, Frederick,3,479,327.
Grosser, Frederick; and Hort, Eugene V., to GAF Corporation. Polymerization of N-vinyl lactams in presence of azo catalyst and hydroperoxide compound. 3,459,720, 8-5-69, Cl. 260-88.3
Grossett, Duane R.: *See—*
Stanley, John H.; and Grossett, Duane R.,3,448,602.
Grosshans, Georges Frederic: *See—*
Ollier, Jacques Honore Gaspard; Grosshans, Georges Frederic; and Masson, Robert Gaston,3,430,411.
Grossi, Mario D.; and Lombardini, Pietro P., to Raytheon Company. Trapped electromagnetic radiation communications system. 3,445,844, 5-20-69, Cl. 343-100.
Grossinger, John S., to Crane Co. Safety device for an electric hot water baseboard. 3,422,249, 1-14-69, Cl. 219-341.
Grosskopf, John W., Jr.; Thayer, Arthur G.; and Welker, Robert H., to Libbey-Owens-Ford Glass Company. Mounting glass sheets. 3,461,624, 8-19-69, Cl. 51-277.
Grossman, Abraham, 1/2 to Mahoney, Thomas P. Closure having high load bearing characteristics. 3,429,075, 2-25-69, Cl. 49-425.
Grossman, Abraham. Curtain wall construction. 3,436,887, 4-8-69, Cl. 52-235.
Grossman, Abraham, to Panascope, Inc., mesne. Fenestration device having a tiltable sash. 3,481,077, 12-2-69, Cl. 49-188.
Grossman, Harry. Camper unit. 3,454,020, 7-8-69, Cl. 135-1.
Grossman, Leonard A.: *See—*
Harff, Gunter; and Grossman, Leonard A.,3,452,736.
Grossman Music Corporation, The: *See—*
Thompson, Josephus B., 3,438,298.
Grossman, Walter B.: *See—*
Rabe, George B.; and Grossman, Walter B.,3,430,442.
Grossmann, C. Eisen,- und Stahlwerk AG: *See—*
Pracht, Gunter, 3,467,982.
Grossmann, Hans: *See—*
Keller, Heinz; and Grossmann, Hans,3;467,645.
Grossoehme, Floyd, to General Electric Company. A.C.-D.C. rectifier including a magnetic amplifier for regulating the A.C. input for the rectifier. 3,452,268, 6-24-69, Cl. 321-18.
Grosson, Joseph F., to United States of America, Navy. Seawater hydraulic system for deep submergence salvage and exploration vehicles. 3,447,552, 6-3-69, Cl. 137-81.
Grosspietsch, Horst: *See—*
Hornig, Lothar; Grosspietsch, Horst; Mau, Gunter; and Hirsch, Lothar,3,462,502.
Grosswiller, Leo J., Jr.: *See—*
Strickland, Nacy L.; Kettering, Dale O.; and Grosswiller, Leo J., Jr.,3,429,082.
Grosvalet, Jean, to CSF-Compagnie Generale de Telegraphie Sans Fil. Semi-conductor device having dielectric and metal protectors. 3,436,612, 4-1-69, Cl. 317-234.
Grosvenor, David E.; and Miller, William E., to United States of America, Atomic Energy Commission. Method of molten metal separation. 3,483,913, 12-16-69, Cl. 164-55.
Groszek, Aleksander Jerzy, to Microscal Limited. Calorimeter for the determination of heats of reaction. 3,467,501, 9-16-69, Cl. 23-230.
Groszek, Aleksander Jerzy, to British Petroleum Company Limited, The. Method of grinding metal powder. 3,476,325, 11-4-69, Cl. 241-16.

Groszkowski, Janusz. Ionization vacuum gauge with X-ray and ultraviolet ray shielding. 3,463,956, 8-26-69, Cl. 313-7.
Grot, Walther Gustav: *See*—
Blair, Larry Keene; and Grot, Walther Gustav,3,454,633.
Grote Manufacturing Company, Inc., The: *See*—
Newman, Charles J., 3,445,645.
Newman, Charles J.; and Brosene, William G., Jr., 3,462,207.
Newman, Charles J.; and Grote, Walter F., 3,485,545.
Grote, Walter F.: *See*—
Newman, Charles J.; and Grote, Walter F.,3,485,545.
Groteke, Daniel E., to American Standard Inc. Skid-resistant surfaces. 3,479,202, 11-18-69, Cl. 117-38.
Groteke, Daniel E.; and Hopper, Harry G., Jr., to American Standard Inc. Apparatus for casting self-rimming sinks. 3,421,573, 1-14-69, Cl. 164-362.
Grotewohl, Albert: *See*—
Orlich, Helmut; Kales, Josef; Grotewohl, Albert; and Zaschke, Jurgen,3,482,466.
Groth, George S.: *See*—
Crowson, Fred B.; and Groth, George S.,3,435,142.
Groth, Glen L., to American Home Products Corporation. Lockable display rack. 3,438,506, 4-15-69, Cl. 211-4.
Groth, William H., Jr., to Honeywell, Inc. Input/output buffer. 3,427,595, 2-11-69, Cl. 340-172.5
Groth, William H., to Honeywell Inc. Digital to analog converter having digital feedback. 3,447,148, 5-27-69, Cl. 340-347.
Groth, William H., to Honeywell Inc. Digital to analog converter. 3,447,149, 5-27-69, Cl. 340-347.
Grothe, Horst. Universal dummy bar for continuous castings. 3,485,292, 12-23-69, Cl. 164-274.
Grotheer, Morris P., to Hooker Chemical Corporation. Method for improving the operation of chloro-alkali diaphragm cells and apparatus therefor. 3,471,382, 10-7-69, Cl. 204-98.
Grotheer, Morris P.; and Cook, Edward H., Jr., to Hooker Chemical Corporation. Production of chlorates. 3,464,901, 9-2-69, Cl. 204-95.
Grotheer, Morris P.; and Cook, Edward H., Jr., to Hooker Chemical Corporation. Rejuvenation of diaphragms for chlor-alkali cells. 3,467,586, 9-16-69, Cl. 204-98.
Grotheer, Morris P.; Cook, Edward H.; and Snyder, Daniel J., to Hooker Chemical Corporation. Electrolytic method for electrolysis of hydrochloric acid. 3,458,411, 7-29-69, Cl. 204-128.
Grothey, Ivan David, to Scott & Williams, Inc. Knitting machine and method. 3,420,075, 1-7-69, Cl. 66-14.
Grotjahn, Heinz: *See*—
Reichert, Otto; Heuer, Kurt; Grotjahn, Heinz; and Wendlandt, Hans George,3,420,814.
Grotnes Machine Works, Inc.: *See*—
Garver, Oscar W.; Ullman, Frederick E.; Stettler, Christian H.; and Kopp, Hans W., 3,427,426.
Luedi, Hans R.; and Stettler, Christian H., 3,461,710.
Grotsch, Georg, 1/2 to Bergner, Richard. Pneumatic tires for vehicles with non-skid members. 3,428,105, 2-18-69, Cl. 152-210.
Grotz, Bernard J., Jr., to Braun, C. F., & Company. Hydrocarbon reforming for production of a synthesis gas from which ammonia can be prepared. 3,442,613, 5-6-69, Cl. 23-199.
Ground, Ernest R., to Continental Ore Corporation. Fluorspar-flux additive in a coking operation. 3,449,214, 6-10-69, Cl. 201-20.
Groupement Atomique Alsacienne Atlantique: *See*—
Martin, Jean Antoine; Mauguen, Pierre; and Pinault, Jacques, 3,471,194.
Grous, Philip P.: *See*—
Monsimer, Harold G.; and Grous, Philip P.,3,459,768.
Grout, Edward C.: *See*—
Hiers, James E.; and Grout, Edward C.,3,426,603.
Hiers, James E.; and Grout, Edward C.,3,433,259.
Grout, John Stephen, to General Electric Company. Variable scratch filter circuit. 3,421,117, 1-7-69, Cl. 333-28.
Grout, John Stephen, to General Electric Company. Double loudness control network. 3,487,341, 12-30-69, Cl. 333-28.
Grove, Andrew S.; Leistiko, Otto; and Whittier, Ronald J., to Fairchild Camera and Instrument Corporation. Optimized double-ring semiconductor device. 3,463,977, 8-26-69, Cl. 317-235.
Grove, Clerf W.: *See*—
Miller, Harry H.; and Grove, Clerf W.,3,461,653.
Grove, Dwight L.; Grove, John L.; and Sutter, Robert W., to Grove Manufacturing Company, mesne. Vehicle with tilting bed. 3,430,792, 3-4-69, Cl. 214-505.
Grove, Gene A.: *See*—
Allen, Gilbert D.; and Grove, Gene A.,3,434,411.
Grove, J. E.: *See*—
Grove, Marvin H.; and Kim, Kee W., 3,481,580.
Grove, John L.: *See*—
Grove, Dwight L.; Grove, John L.; and Sutter, Robert W.,3,430,792.
Grove, John L., to Grove Manufacturing Company, mesne. Reinforcement member for telescoping boom assembly. 3,462,023, 8-19-69, Cl. 212-55.
Grove, M. H.: *See*—
Grove, Marvin H.; and Kim, Kee W., 3,481,580.
Grove Manufacturing Company: *See*—
Ezolt, James J., 3,450,282.
Felix, Paul C.; and Johnson, Allen A., 3,469,718.
Grove, Dwight L.; Grove, John L.; and Sutter, Robert W., 3,430,792.
Grove, John L., 3,462,023.
Grove, Marvin H., to M & J Valve Company. Valve equipment with hydraulic operator. 3,429,550, 2-25-69, Cl. 251-31.
Grove, Marvin H., to M & J Valve Company. Gate valve with locking pins. 3,443,788, 5-13-69, Cl. 251-112.
Grove, Marvin H., to M & J Valve Company. Gate valve. 3,455,535, 7-15-69, Cl. 251-326.
Grove, Marvin H., to M & J Valve Company. Valve operating and indicating apparatus. 3,472,276, 10-14-69, Cl. 137-552.
Grove, Marvin H.; and Kim, Kee W., to M & J Valve Company M & J Engineering Company, a partnership consisting of Grove, M. H., and Grove, J. E. Gate valve body and seat construction. 3,481,580, 12-2-69, Cl. 251-328.
Grove, Marvin H.; and Van Arsdale, Lyle R., to M & J Valve Company. Meter prover apparatus. 3,423,988, 1-28-69, Cl. 73-3.
Grove Valve and Regulator Company: *See*—
Brumm, Richard S., 3,479,004.
Bryant, Austin U.; and Brumm, Richard S., 3,422,840.
Bryant, Austin U.; and Combes, Marvin G., 3,425,662.
Bryant, Austin U., 3,467,394.
Combes, Marvin G.; and Ray, Harold T., 3,460,224.
Piccardo, Jack E., 3,463,448.
Ripert, Roger L., 3,463,447.
Grove, Wayne M., to Hewlett-Packard Company. Structure for reducing mismatch between symmetrical and asymmetrical transmission line and fast rise time generator utilizing same. 3,450,902, 6-17-69, Cl. 307-260.
Grove-Jones, Kathleen Lucy: *See*—
Boys, Thomas M. A., 3,428,201.
Grove-Jones, Leonard William George and: *See*—
Boys, Thomas M. A., 3,428,201.
Grover, Clayton D., deceased0 (by Grover, Laury Farrand; executrix). Method and apparatus for determining camera shutter speed. 3,438,240, 4-15-69, Cl. 73-5.
Grover, Elliott E., to Westinghouse Electric Corporation. Solid bearing inserts in die castings. 3,423,279, 1-21-69, Cl. 161-189.
Grover, George M.; Busse, Claus A.; and Bohdansky, Josef, to United States of America, Atomic Energy Commission, mesne. Vapor pressure gauge and calorimeter for high temperatures. 3,451,266, 6-24-69, Cl. 73-190.
Grover, George M.; Busse, Claus A.; and Caron, Rene Jean, to United States of America, Atomic Energy Commission. Thermionic converter device. 3,441,752, 4-29-69, Cl. 310-4.
Grover, Horace N.; and Sommer, John G., to General Tire & Rubber Company, The. Metal cleaning composition and method. 3,476,599, 11-4-69, Cl. 134-4.
Grover, Kenneth M.; and Ganiaris, Neophytos, to Struthers Scientific and International Corporation. Freeze drying. 3,431,655, 3-11-69, Cl. 34-5.
Grover, Laury Farrand: *See*—
Grover, Clayton D.,3,438,240.
Grover, Lyndon V. Sander. 3,429,077, 2-25-69, Cl. 51-148.
Grover, Morgan. Winch lock movable partitions. 3,464,170, 9-2-69, Cl. 52-122.
Grover Musical Products, Inc.: *See*—
Thompson, Josephus B., 3,431,807.
Grover Musical Products Incorporated: *See*—
Thompson, Josephus B., 3,459,092.
Grover, Phillip C.: *See*—
Grover, Russell C.; and Grover, Phillip C.,3,460,277.
Grover, Richard T. Split ring packing with elastomeric support for rotative and reciprocable parts. 3,420,536, 1-7-69, Cl. 277-165.
Grover, Robert R., to Kingsbury Machine Tool Corporation. Drive transmission for machine tools. 3,459,069, 8-5-69, Cl. 74-675.
Grover, Russell C.; and Grover, Phillip C. Transplanter. 3,460,277, 8-12-69, Cl. 37-2.
Grover, William H., to General Motors Corporation. Instrument illuminator. 3,451,372, 6-24-69, Cl. 116-135.
Groves, Allen D.: *See*—
Howe, Frank D.; and Groves, Allen D.,3,463,386.
Howe, Frank D.; Swift, Joseph P.; and Groves, Allen D.,3,442,183.
Groves, James Dennis, to British Titan Products Company Limited. Purification of pigments. 3,445,937, 5-27-69, Cl. 34-33.
Groves James N., to General Electric Company. Thin, reinforced permselective films. 3,445,321, 5-20-69, Cl. 161-92.
Groves, James N.: *See*—
Rich, Theodore A.; Groves, James N.; and Skala, George F.,3,458,284.
Groves, Kenneth; and Ridout, Philip Neale, to Her Majesty's Postmaster General of the General Post Office. Radio telegraph signal transmission. 3,486,117, 12-23-69, Cl. 325-30.
Groves, Robert C. Strip package. 3,482,733, 12-9-69, Cl. 221-25.
Groves, Walter Robert, to British Industrial Plastics Limited. Transfer moulding apparatus. 3,453,691, 7-8-69, Cl. 18-30.

Groves, Warren O.: *See—*
Burd, John W.; and Groves, Warren O.,3,441,000.
Groves, Warren O., to Monsanto Company. Method for the preparation of inorganic single crystal and polycrystalline electronic materials. 3,429,756, 2-25-69, Cl. 156-17.
Groves, Warren O., to Monsanto Company. Process for the preparation of compound semiconductors. 3,462,323, 8-19-69, Cl. 148-175.
Groves, William G.: *See—*
Caldwell, Henry C.; and Groves, William G.,3,458,507.
Grow, Harlow B. Board game apparatus wherein advancement of pieces is controlled by movements of other pieces. 3,469,845, 9-30-69, Cl. 273-134.
Grozinger, Lore: *See—*
Hayer, Dieter H. A.; and Grozinger, Lore,3,436,362.
G.R.S. Engineering Co., Inc.: *See—*
Wilcher, Gayle A., 3,436,955.
Grubaugh, Robert E.; and Elliott, Lee E., to United Aircraft Corporation. Shock recorder using eccentrically-weighted gears. 3,422,439, 1-14-69, Cl. 346-7.
Grubb, Gary L.; and Leikarts, Aldis Juris, to Streater Industries, Inc., mesne. Display rack. 3,485,381, 12-23-69, Cl. 211-148.
Grubb, Howard, Sir, Parsons Limited: *See—*
Haswell, Ronald, 3,455,636.
Grubb, Norman J. Apparatus for cleaning objects. 3,467,314, 9-16-69, Cl. 239-138.
Grubbe, Raymond J., to Teletype Corporation. Method of forth etching. 3,483,049, 12-9-69, Cl. 156-5.
Grubben, Henri Peter Johannes: *See—*
Van Hensbergen, Gerrit Hendrik; and Grubben, Henri Peter Johannes,3,476,881.
Grube, William L., to MacLean-Fogg Lock Nut Co. Automatic load binder. 3,462,137, 8-19-69, Cl. 267-74.
Gruber, Arnold Harvey; Moore, Sewell Trezevant; and Light, Charles Ellsworth, deceased0 (by Light, Emma K.; executrix), to American Cyanamid Company. Continuous vinyl grafting of cellulose. 3,455,643, 7-15-69, Cl. 8-116.
Gruber, Bernard A., to Monsanto Company. Boron phosphide compositions. 3,423,218, 1-21-69, Cl. 106-55.
Gruber, Bernard A., to Monsanto Research Corporation. Tape for dry tape fuel cell. 3,438,816, 4-15-69, Cl. 136-111.
Gruber, Bernard A., to Monsanto Research Corporation. Method of operating fuel cell with a tape feed carrying the reaction components of a thermal cell. 3,444,000, 5-13-69, Cl. 136-86.
Gruber, Bernard A., to Monsanto Research Corporation. Method of generating electricity in tape type fuel cell. 3,454,429, 7-8-69, Cl. 136-86.
Gruber, Bernard A., to Monsanto Research Corporation. Tape feed for tape fuel cell and the method of operating a dry tape fuel cell. 3,454,430, 7-8-69, Cl. 136-86.
Gruber, Bernard A., to Monsanto Research Corporation. Rechargeable tape fuel cell. 3,479,227, 11-18-69, Cl. 136-86.
Gruber, Cyril H., to Brumberger Company, Inc. Electrically operated coin box device. 3,475,848, 11-4-69, Cl. 46-3.
Gruber, Floyd E.: *See—*
Smookler, Arthur L.; and Gruber, Floyd E.,3,479,061.
Gruber, Francois R.: *See—*
Cronig, Alvin; and Gruber, Francois R.,3,485,160.
Robin, Gilbert J.; Cronig, Alvin; and Gruber, Francois R.,3,472,138.
Cronig, Alvin; McCarthy, Joseph V.; and Gruber, Francois,3,485,348.
Gruber, Heinz: *See—*
Puhringer, Othmar; and Gruber, Heinz,3,477,706.
Gruber, Kurt, to Mannesmann-Meer Aktiengesellschaft. Method and apparatus for producing extrusions. 3,464,248, 9-2-69, Cl. 72-42.
Gruber, Lawrence H.: *See—*
Denault, Albert P.; Gruber, Lawrence H.; and Morton, Kenneth O.,3,478,939.
Gruber, Milan: *See—*
Breneman, Jack L.; and Gruber, Milan,3,469,340.
Gruber, Milian: *See—*
Breneman, Jack L.; and Gruber, Milian,3,453,774.
Gruber, Miriam J.: *See—*
Ratz, Rudi F. W.; and Gruber, Miriam J.,3,420,920.
Gruber, Paul J.: *See—*
Stuckey, Albert D. C.; and Gruber, Paul J.,3,422,583.
Gruber, Robert: *See—*
McIlvenny, James, 3,465,556.
Gruber, Robert J. Food freezing and proportioning method and apparatus. 3,436,927, 4-8-69, Cl. 62-75.
Gruber, Thomas J., to Eaton Yale & Towne, Inc. Lubricant metering valve cross-porting arrangement. 3,438,463, 4-15-69, Cl. 184-7.
Gruber, Thomas J., to Eaton Yale & Towne Inc. Progressive lubricant feeder with cross porting. 3,467,222, 9-16-69, Cl. 184-7.
Gruber, Thomas J., to Eaton Yale & Towne, Inc. Thermal electric bearing monitoring system. 3,487,467, 12-30-69, Cl. 184-6.
Gruber, Thomas J.; and Lyth, William W., to Eaton Yale & Towne, Inc. Lubricating oil pumping station and master control center for positive displacement type metering valves. 3,477,546, 11-11-69, Cl. 184-7.
Gruber, Wilhelm, to Rohm & Haas G.m.b.H. Method of producing acrolein and methacrolein. 3,423,329, 1-21-69, Cl. 252-437.
Gruber, Wilhelm, to Rohm & Haas G.m.b.H. Preparation of acrylonitrile and methacrylonitrile. 3,426,061, 2-4-69, Cl. 260-465.3
Gruber, Wilhelm; and Quis, Peter, to Rohm & Haas G.m.b.H. Cyanoformimide thioesters. 3,462,471, 8-19-69, Cl. 260-453.
Gruber, Wilhelm; and Quis, Peter, to Rohm & Haas G.m.b.H. Polyamines comprising ethylene and imidazolinyl groups. 3,467,668, 9-16-69, Cl. 260-309.6
Grubman, Moe M. Reversible and adjustable neckwear and holders therefor. 3,439,360, 4-22-69, Cl. 2-155.
Gruca, Ned Joseph, to Illinois Tool Works Inc. Screw type fastener. 3,478,639, 11-18-69, Cl. 85-41.
Grudin, Milton R.; and Johnson, Harald R., to General Instrument Corporation. Servo system and computer. 3,448,358, 6-3-69, Cl. 318-18.
Grudner, Galina M.: *See—*
Moldovan, Iuliu; and Grudner, Galina M.,3,460,900.
Grudoski, Daniel P., to Blazon, Inc. Flight simulating swing. 3,447,802, 6-3-69, Cl. 272-87.
Grudus, Gabriel M., Jr., to Interpace Corporation. Furane resins with silane coupling agents. 3,487,043, 12-30-69, Cl. 260-41.
Gruen, Harold E.: *See—*
Hovenga, La Vern B.; Hardt, Ivan E.; Kidman, Ronald D.; and Gruen, Harold E.,3,428,916.
Gruendler Crusher & Pulverizer Co.: *See—*
Shelton, Harry J., Jr., 3,480,213.
Gruenfeld, Norbert, to Geigy Chemical Corporation. Certain amino imidazole derivatives. 3,459,763, 8-5-69, Cl. 260-309.
Gruenstein, Rolf J., to Lockheed Aircraft Corporation. Method for making an encapsulated electrical circuit module assembly. 3,451,131, 6-24-69, Cl. 29-624.
Gruentzel, Richard A.; and Harris, Peter D., said Gruentzel assor. to American Can Company. Tear resistant article. 3,485,437, 12-23-69, Cl. 229-53.
Gruetzmacher, Ralph W.; Mc Clurg, Glenn O.; and O'Connor, Donald T., to Magnaflux Corporation. Apparatus for non-destructive testing of a dielectric material including resilient dielectric coupling means positioned between an electrode and the material under test. 3,465,242, 9-2-69, Cl. 324-54.
Gruhn, Earl F.: *See—*
Bayless, James A.; and Gruhn, Earl F.,3,420,721.
Gruitroy, Willem; and Raaden, Dirk J., to American Enka Corporation. Method and apparatus for measuring the maturity of viscose. 3,443,419, 5-13-69, Cl. 73-64.1
Gruller, David L.: *See—*
Williams, Leonard E.; and Gruller, David L.,3,481,396.
Grumbach, Marc; and Guimard, Andre, to Institut de Recherches de la Siderurgie Francaise. Tensile testing machine for metallic test pieces. 3,439,532, 4-22-69, Cl. 73-89.
Grumm, Walter. Horizontal coke oven batteries. 3,476,652, 11-4-69, Cl. 202-142.
Grumman, Eugene V. Jack arrangement for trailers. 3,431,727, 3-11-69, Cl. 60-52.
Grun, Gustav. Apparatus for treating powdered or granulated substances. 3,469,562, 9-30-69, Cl. 118-24.
Grunbaum, Juan Jose Torralva. Socket plug. 3,482,204, 12-2-69, Cl. 339-63.
Grundberg, Kenneth. Electronic control circuit for controlling the rate of fire of a machine gun. 3,451,307, 6-24-69, Cl. 89-135.
Grundel, Helga: *See—*
Heymann, Kurt; Woldt, Gunter; and Grundel, Helga,3,454,416.
Grundelius, Nils Roland; and Ahlborg, Nils Knut Gabriel, to Wikdahl, Nils Anders Lennart. Method of removing impurities from a fiber suspension. 3,486,619, 12-30-69, Cl. 209-211.
Grundfos A/S: *See—*
Jensen, Niels Due, 3,440,968.
Jensen, Niels Due, 3,487,432.
Grundhause, Frank J.: *See—*
Lewis, Robert H.; Barbour, John P.; Dyke, Walter P.; and Grundhause, Frank J.,3,482,096.
Grundhauser, Frank J.: *See—*
Anderson, Robert L.; Dyke, Walter P.; and Grundhauser, Frank J.,3,432,663.
Dyke, Walter P.; Grundhauser, Frank J.; and Barbour, John P.,3,428,803.
Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig: *See—*
Decker, Herbert, 3,420,350.
Kuehnlein, Dieter, 3,475,031.
Schroder, Erich, 3,432,169.
Stechemesser, Ernst; and Gebhardt, Reinhold, 3,455,217.
Grundig, Max: *See—*
Teichmann, Friedrich; Jones, Roscoe L.; and Hopkins, Edwin R., 3,444,978.
Grundman, Richard G.; and Sharpe, Cecil H., to General Motors Corporation. Fuel spray nozzle. 3,477,647, 11-11-69, Cl. 239-468.

Grundman, Roger V., to Minnesota Mining and Manufacturing Company. Flockdcoated substrate and method of making the same. 3,436,245, 4-1-69, Cl. 117-25.
Grundmann, Ekkehard: *See—*
Petersen, Siegfried; Gold, Heinrich; Grundmann, Ekkehard; and Juhling, Lieselotte,3,461,130.
Grundmann, Gustave Louis, to Radio Corporation of America. Electron beam deflection and low voltage supply circuit. 3,436,591, 4-1-69, Cl. 315-27.
Grundmann, Horst: *See—*
Ratzsch, Manfred; Grundmann, Horst; and Kilian, Rolf,3,441,628.
Ratzsch, Manfred; Grundmann, Horst; Kilian, Rolf; and Reinhardt, Helmut,3,431,250.
Grundmann, Werner: *See—*
Winkler, Fritz; Pohl, Franz; Stark, Hermann; Kesseler, Helmut; and Grundmann, Werner,3,424,646.
Grundschober, Friedrich; and Sambeth, Joerg, to Battelle Memorial Institute, International Division. Method of making a protective coating at the surface of a solid body. 3,477,868, 11-11-69, Cl. 117-46.
Grundy, Gary L.; and Herickhoff, Robert J., to Sperry Rand Corporation. Method of determining the intensity of a nuclear-radiation burst. 3,479,509, 11-18-69, Cl. 250-83.3
Grundy, Howard Reed: *See—*
Karlby, Henning; Grundy, Howard Reed; Speer, John R.; and Hall, George D.,3,427,484.
Grundy, Lawrence F., to Positive Safety Manufacturing Company, The. Safety mechanism for power-operated presses and the like. 3,487,182, 12-30-69, Cl. 200-61.42
Grune, Johannes: *See—*
Kobusch, Helmut; Grune, Johannes; and Pfeiffer, Arnold,3,459,209.
Gruner, Ernst Otto. Dried meat product and method of making same. 3,432,311, 3-11-69, Cl. 99-208.
Gruner, Frederick R., to Ametek, Inc. Mounting arrangement for laundry machines. 3,476,340, 11-4-69, Cl. 248-22.
Gruner, Frederick R.; and Dahlquist, Robert L., to Ametek, Inc. Ironing machine. 3,484,966, 12-23-69, Cl. 38-55.
Gruner, Frederick W., to Jordan Controls, Inc. Split phase induction motor solid state position control with braking at balance. 3,424,959, 1-28-69, Cl. 318-18.
Gruner, George P.: *See—*
Mutter, William W.; and Gruner, George P.,3,439,493.
Gruner, Hans; and Nicolay, Heinz, to Graubremse GmbH. Control valve in pressure medium brake devices of vehicles applicable in one-conduit-, as well as two-conduit-operations. 3,439,958, 4-22-69, Cl. 303-40.
Grunert, Vincent. Dual action cleaning mop. 3,419,930, 1-7-69, Cl. 15-119.
Grunewald, Ernst: *See—*
Meeker, David A.; Grunewald, Ernst; and Vallor, Ben J.,3,465,761.
Grunewald, Helmut; and Steijner, Olof, to Mo och Domsjo Aktiebolag. Apparatus for continuous sulphonation and/or sulphation of organic substances. 3,438,742, 4-15-69, Cl. 23-285.
Grunewald, Helmut; and Steijner, Olof, to Mo och Domsjo Aktiebolag. Apparatus for sulphonating and/or sulphating organic compounds controlling the rate of feed of the reactant by measurement of the viscosity of the reaction mixture. 3,438,743, 4-15-69, Cl. 23-285.
Grunewald, Helmut; and Waag, Ake, to Mo Och Domsjo Aktiebolag. Detergent compositions. 3,429,822, 2-25-69, Cl. 252-99.
Grunfeld, Helen: *See—*
Gottfried, Louis, 3,471,196.
Grunwald, Erich; and Kafka, Wilhelm, to Siemens Aktiengesellschaft. Commutating arrangement for electric machines with superconducting armature coils. 3,440,456, 4-22-69, Cl. 310-10.
Grunwald, Erich; and Kafka, Wilhelm, to Siemens Aktiengesellschaft. Direct-current machine. 3,441,755, 4-29-69, Cl. 310-10.
Grunwald, Georg; Otto, Hans-Dietrich; and Borgwaldt, Heinz-Erik Bernhard Daniel. Process of forming reconstituted tobacco foils. 3,424,170, 1-28-69, Cl. 131-140.
Grunwald, John J.; and Slominski, Leo J., to Mac Dermid Incorporated. Compositions for the method of selectively dissolving nickel from other metals. 3,460,938, 8-12-69, Cl. 75-97.
Grunwoldt, Wilfried: *See—*
Schrader, Richard; Grunwoldt, Wilfried; Hennek, Hubert; Kneschke, Gotz; and Reinhardt, Helmut,3,464,790.
Grupe, Edward Howard; and Hechtman, John Franklin, to Kimberly-Clark Corporation. Packing material for letterpress impression cylinders. 3,428,517, 2-18-69, Cl. 161-165.
Grushkin, Bernard, to Grace, W. R., & Co. Molding compositions of polymers from trimeric phosphonitrilic compounds. 3,454,409, 7-8-69, Cl. 106-69.
Grusin, Gerald. Divided transparent enclosure with playing disc. 3,462,149, 8-19-69, Cl. 273-113.
Gruss, George A.; Smith, Richard A.; and Infantino, Joseph R., to American Machine & Foundry Company. Process for the manufacture of bowling pins. 3,478,134, 11-11-69, Cl. 264-45.
Grussen, Jean. Plastic bottle cap with integral handle. 3,462,035, 8-19-69, Cl. 215-41.
Grussner, John J., to Weldon Tool Company, The. Countersinking and counterboring tool. 3,473,421, 10-21-69, Cl. 77-73.5
Gruszczynski, Leszek; and Adler, Henryk, to Biuro Projektow Przemyslu Hutniczego 'Biprohut'. Feed mechanism for an ingot produced by continuous coating, especially of steel. 3,448,908, 6-10-69, Cl. 226-164.
Grutsch, Patrick C.: *See—*
Schubach, Uluse E.; Woods, Otho C.; Grutsch, Patrick C.; and Eberhardt, Jack L.,3,426,559.
Gruver, Albert L.: *See—*
Otto, John C.; and Gruver, Albert L.,3,457,718.
Gruver, Jerry T.: *See—*
Smith, Robert L.; and Gruver, Jerry T.,3,462,516.
Gruver, Jerry T., to Phillips Petroleum Company. Cured blend of diene block copolymer, olefin rubber and polystyrene. 3,445,543, 5-20-69, Cl. 260-876.
Gruver, Jerry T.; and Childers, Clifford W., to Phillips Petroleum Company. High impact polystyrene comprising a cross-linked blend of polystyrene, a diene rubber and a solution polymerized block copolymer. 3,476,829, 11-4-69, Cl. 260-876.
Gruver, John H., to Addressograph-Multigraph Corporation. Photographic apparatus. 3,467,524, 9-16-69, Cl. 96-116.
Gruver, John H.; and Moe, Hal K., to Addressograph-Multigraph Corporation. Device for intermittently feeling strip material. 3,465,937, 9-9-69, Cl. 226-76.
Gruy, H. J., and Associates, Incorporated: *See—*
Brown, Morris A., 3,472,033.
Gryctko, Carl E., to I-T-E Imperial Corporation, mesne. Circuit breaker mounting and removal jack screw combination. 3,474,206, 10-21-69, Cl. 200-168.
Gryctko, Carl E., to I-T-E Imperial Corporation, mesne. Circuit breaker mechanism mounting plate assembly. 3,477,044, 11-4-69, Cl. 335-23.
Gryctko, Carl E.: *See—*
Shaffer, Howard R.; and Gryctko, Carl E.,3,437,970.
Gryglas, Bogdan, to Efdyn Corporation. Adjustable hydraulic dashpot. 3,425,522, 2-4-69, Cl. 188-97.
Gryglas, Bogdan, to Efdyn Corporation. Adjustable shock absorber. 3,446,317, 5-27-69, Cl. 188-88.
Grzywacz, Marian Jan. Apparatus for technical drawing. 3,473,491, 10-21-69, Cl. 108-6.
GS Equipment Company: *See—*
Gill, Thomas R., 3,439,900.
Gsching, Wilhelm, to Voith Getriebe KG. Hydrostatic radial piston pump. 3,470,825, 10-7-69, Cl. 103-161.
Gstalder, Serge,; Raynal, Jean,; and Renard, Bruno,, to Societe Nationale des Petroles d'Aquitaine. Device for breaking up the cores formed by core drills. 3,443,650, 5-13-69, Cl. 175-404.
Gstalder, Serge: *See—*
Raynal, Jean; Gstalder, Serge; and Quichaud, Claude,3,448,305.
GTI Corporation: *See—*
Dix, Sydney; and Davis, David W., 3,423,638.
Dix, Sydney, 3,465,116.
Dix, Sydney, 3,468,523.
GTS Corporation: *See—*
Allison, Kenneth C.; and Kelver, William L., 3,433,120.
Guadalupi, Mario, to SNAM S.p.A. Process for the production of urea by synthesis of ammonia and carbon dioxide, with total recycling of the portion which has not been converted into urea. 3,470,247, 9-30-69, Cl. 260-555.
Guanella, Gustav, to Patelhold Patentverwertungs- und Elektro-Holding AG. Synchronizing system for random sequence pulse generators. 3,439,279, 4-15-69, Cl. 328-63.
Guarasci, Mario: *See—*
Hayden, Rodney; and Guarasci, Mario,3,470,531.
Guardian Chemical Corporation: *See—*
Globus, Alfred R., 3,445,569.
Globus, Alfred R., 3,452,049.
Guardian Electric Manufacturing Co.: *See—*
Canty, Edgar P.; and Obszarny, Thedore J., 3,467,986.
Guardian Electric Mfg., Co.: *See—*
Wright, William Warren, 3,422,691.
Guarino, Alexander J.: *See—*
Hunter, Thomas A.; Sherwood, Noble P.; Buske, Gilbert E.; and Guarino, Alexander J.,3,459,269.
Guarino, Henry R., to Avco Corporation. Heart pump synchronizing apparatus. 3,452,739, 7-1-69, Cl. 128-1.
Guarino, Henry R., to Avco Corporation. Monitor for heart pump apparatus. 3,465,746, 9-9-69, Cl. 128-1.
Guarino, John P.; and Williams, Robert H., to Mobil Oil Corporation. Photolytic production of cycloalkyl ketoximes. 3,459,648, 8-5-69, Cl. 204-162.
Guarino, Louis Joseph. Distillation of liquids using semi-porous and non-porous conduits in vacuum pressure container. 3,454,470, 7-8-69, Cl. 202-177.

Guarino, Nicholas A. Reel and case and storage means therefor. 3,452,879, 7-1-69, Cl. 211-71.
Guarnaschelli, Stephen. Flexible segmented tube. 3,430,662, 3-4-69, Cl. 138-120.
Guattery, Antonio P.: *See—*
Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L.,3,451,724.
Gubela, Hans E. Road guidepost. 3,451,319, 6-24-69, Cl. 94-1.5
Gubitose, Nicholas F.: *See—*
Baglino, John P.; Gubitose, Nicholas F.; Rappenglueck, Joseph R.; and Loveland, Chester L.,3,464,196.
Gubitz, Franklyn W., to Sterling Drug Inc.1,2,3,4,5,8-Hexahydro-1,5-methanobenzo[f] [1,4] diazocine and derivatives thereof. 3,472,852, 10-14-69, Cl. 260-268.
Gubler, Kurt, to Geigy Chemical Corporation. Arthropodicidal compositions. 3,449,502, 6-10-69, Cl. 424-273.
Guckel, Gerhart A., to Doe, James, Engineering Co. Sterilizer for containers. 3,437,422, 4-8-69, Cl. 21-80.
Guckel, Gerhart A.; and Theys, Ezra E., to Dole, James, Engineering Co. Filling apparatus. 3,442,304, 5-6-69, Cl. 141-134.
Gucker, George: *See—*
Barbieri, John Dante; and Gucker, George,3,480,788.
Guddal, Karl. Wall structure. 3,466,825, 9-16-69, Cl. 52-344.
Gude, Armin: *See—*
Muller, Karl Adolf; Engel, Frederico; and Gude, Armin,3,476,711.
Gude, Armin; and Haake, Willi, to Chemische Werke Huls Aktiengesellschaft. Polyamide-dibenzenylbenzene compositions. 3,437,627, 4-8-69, Cl. 260-31.2
Gudelman, Abram Elkunovich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.
Gudenschwager, Philip F.: *See—*
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,425,039.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,931.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A.,3,454,932.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W.,3,454,933.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,934.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,471,834.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,154.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,155.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,156.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,478,320.
Gudmestad, Ragnar, to Artos Engineering Company. Measuring apparatus. 3,425,129, 2-4-69, Cl. 33-132.
Gudmundsen, Austin: *See—*
Dooley, James L.; and Gudmundsen, Austin,3,463,267.
Gudmundsen, Austin, to McCulloch Corporation. Inertia actuated safety brake. 3,485,327, 12-23-69, Cl. 188-136.
Gudmundsen, Richard A., to North American Rockwell Corporation. High power dissipation laser structure. 3,487,330, 12-30-69, Cl. 331-94.5
Gudmundsen, Richard Austin; and Steele, Earl L., to North American Rockwell Corporation. Bleachable reflectance output coupler. 3,444,478, 5-13-69, Cl. 331-94.5
Guebert, Kenneth W.: *See—*
Olstowski, Franciszek; and Guebert, Kenneth W.,3,448,181.
Gueldner, Richard Charles: *See—*
Mathison, Ian William; and Gueldner, Richard Charles,3,459,755.
Guenard, Pierre R., to CSF-Compagnie Generale de Telegraphie Sans Fil. Signal jamming device comprising a single noise generator. 3,473,126, 10-14-69, Cl. 325-132.
Guenel, Claude: *See—*
Gallet, Georges; and Guenel, Claude,3,425,641.
Guenev, Christo Nikolov. Fluoride-containing agglomeration product. 3,484,234, 12-16-69, Cl. 75-94.
Guennou, Serge, to U.S. Philips Corporation, mesne. Automatic number transmitting device. 3,482,058, 12-2-69, Cl. 179-27.
Guenter, Richard G., to Hercules Incorporated. Method and system for initiating explosive composition. 3,457,859, 7-29-69, Cl. 102-22.
Guenter, Richard G., to United States of America, Army, mesne. Apparatus for forming rocket propellant grains. 3,464,088, 9-2-69, Cl. 18-12.
Guenthard, Jacques, to Sandoz Ltd., (a/k/a Sandoz A.G.). Reactive monoazo dyes containing 2,4-dihalopyrim- idine groups. 3,458,496, 7-29-69, Cl. 260-146.
Guenther, Emmerich: *See—*
Smith, Dexter E.; Keeler, Robert M.; and Guenther, Emmerich,3,476,729.
Guenther, Peter W.: *See—*
Schmoock, Roy F.; Guenther, Peter W.; and Levesque, Peter S.,3,484,593.
Guenther, William, to Lion Packaging Products Company, Inc. Interconnected bags having closure flaps and bottom gussets. 3,469,769, 9-30-69, Cl. 229-69.
Guenther, Wolfgang Peter, to Entoleter, Inc. Method and apparatus for rotary processing and classification. 3,433,422, 3-18-69, Cl. 241-61.
Guenther, Wolfgang Peter, to Entoleter, Inc. Aspirating machine and method. 3,463,313, 8-26-69, Cl. 209-135.
Guenthert, Paul: *See—*
Boettger, Guenter; Guenthert, Paul; Kindler, Hubert; and Stanger, Hans,3,449,414.
Guenthner, Richard A., to Minnesota Mining and Manufacturing Company. Perfluorinated beta amino propionic acid fluorides. 3,471,484, 10-7-69, Cl. 260-247.2
Guenthner, Richard A.; and Lazerte, James D., to Minnesota Mining and Manufacturing Company. Sulfaces treated with a fluorine-containing urethane. 3,484,281, 12-16-69, Cl. 117-121.
Guerard, Henri. Shelf edging. 3,472,727, 10-14-69, Cl. 161-51.
Gueremy, Claude Georges Alexandre: *See—*
Fouche, Jean Clement Louis; and Gueremy, Claude Georges Alexandre,3,455,926.
Guerne, William, to Brevets Aero-Mecaniques S.A. Spinning fuzes, in particular for small caliber shells. 3,450,048, 6-17-69, Cl. 102-79.
Guernet, Jacques, to Compagnie d'Applications Mecaniques a l' Electronique, au Cinema et a l' Atomistique. Apparatus for inserting a constantly oriented specimen chamber in a microanalyser. 3,426,193, 2-4-69, Cl. 250-49.5
Guernsey, J. D.: *See—*
Brauchla, Herbert C., 3,421,557.
Guernsey, Richard H.: *See—*
Janss, John E.; and Guernsey, Richard H.,3,467,251.
Guernsey, Robert W.: *See—*
Rucins, Erik H.; and Guernsey, Robert W.,3,476,094.
Guernsey, Robert W.; Ricketts, James M.; and Zeek, Richard M., to General Motors Corporation. Regenerator matrix. 3,476,174, 11-4-69, Cl. 165-9.
Guerra, Richard, to Westinghouse Electric Corporation. Pivot shelf vending machine. 3,437,235, 4-8-69, Cl. 221-75.
Guerrant, Gordon O., to USS Agri-Chemicals, Inc., mesne. Method and apparatus for continuous monitoring of fluoride effluent. 3,461,043, 8-12-69, Cl. 204-1.
Guerrero, Efrain. Aircraft. 3,432,120, 3-11-69, Cl. 244-12.
Guerrero, Fernando V., to Continental Oil Company. Conduit connector. 3,469,864, 9-30-69, Cl. 285-308.
Guerrero, Miguel Carlos: *See—*
Schermerhorn, Robert S.; and Guerrero, Miguel Carlos,3,438,649.
Guerrier, Jean, to Esso Standard Societe Anonyme Francaise. Preparation of petroleum resin-drying oil binders at reduced pressure in an inert atmosphere. 3,458,463, 7-29-69, Cl. 260-23.7
Guerriere, Thomas V.: *See—*
Richter, Frederick G.; Guerriere, Thomas V.; and Williams, Christian B.,3,460,147.
Guerrieri, Angelo J., to Vitro Corporation of America. Brush electrode assembly for consumable electrodes. 3,457,355, 7-22-69, Cl. 13-14.
Guerrieri, Salvatore A., to Lummus Company, The. Apparatus for the production of hydrogen. 3,450,506, 6-17-69, Cl. 23-288.
Guerrieri, Salvatore A., to Lummus Company, The. Fluidized bed reactor. 3,451,784, 6-24-69, Cl. 23-284.
Guerrieri, Salvatore, to Lummus Company, The. Gas purification process. 3,446,595, 5-27-69, Cl. 23-225.
Guerrini, Camillo. Retainer for brake linkage members. 3,454,141, 7-8-69, Cl. 188-210.
Guerrisi, John L. Control system safety relay. 3,436,598, 4-1-69, Cl. 317-13.
Guerth, Fritz A. Magnetic tape readout assembly employing two sets of angularly displaced heads. 3,474,433, 10-21-69, Cl. 340-174.1
Guertin, Clifford D.; and D'Amato, Salvatore F., to American Bank Note Company. Electroplating method and apparatus. 3,474,011, 10-21-69, Cl. 204-49.
Guertin, Clifford D.: *See—*
D'Amato, Salvatore F.; Williams, Kenneth R.; and Guertin, Clifford D.,3,483,772.
Guertin, Gerard. Trap door. 3,421,261, 1-14-69, Cl. 49-371.
Guertin, Robert W.; and Murray, Robert L., to Dover Corporation. Coupler. 3,473,569, 10-21-69, Cl. 137-614.06

Guertin, Roland Maurice: *See—*
Hoffman, Leonard William; and Guertin, Roland Maurice,3,450,760.
Guertler, Rudolf W.: *See—*
Pelz, Edward C., Jr.; and Guertler, Rudolf W.,3,446,440.
Guertler, Rudolf W., to International Harvester Company. Internal combustion engine combustion chamber. 3,424,137, 1-28-69, Cl. 123-30.
Guertler, Rudolf W., to International Harvester Company. Fuel injection nozzle. 3,425,635, 2-4-69, Cl. 239-453.
Guertler, Rudolf W., to International Harvester Company. Fuel injection nozzle. 3,430,866, 3-4-69, Cl. 239-533.
Guertler, Rudolf W., to International Harvester Company. Multiple injection fuel pump. 3,435,811, 4-1-69, Cl. 123-139.
Guertler, Rudolf W., to International Harvester Company. Fuel injection system. 3,469,793, 9-30-69, Cl. 239-533.
Guesnier, Guy: *See—*
Le Mehaute, Charles; Rocher, Edouard; Guesnier, Guy; and Vaesken, Roland,3,442,774.
Guess, Algernon P., Jr.; and Kiscaden, Donald C., to Du Pont de Nemours, E. I., and Company. Dry spinning process and apparatus. 3,458,616, 7-29-69, Cl. 264-204.
Guest, Keen & Nettlefolds (Aust.) Pty. Limited: *See—*
Fussell, Keith Thomas, 3,448,955.
Guest, Kenneth E.: *See—*
Cholin, Roger R.; and Guest, Kenneth E.,3,486,563.
Guettel, Marvin A., to Square D Company. Solid state control circuit for a resistance welder. 3,484,620, 12-16-69, Cl. 307-141.
Guetterman, Henry M. Detachable mower blade. 3,447,291, 6-3-69, Cl. 56-295.
Guetterman, Henry M. Lawn mower with yieldably mounted blade. 3,452,524, 7-1-69, Cl. 56-295.
Guevara, Mario: *See—*
Tirado, Adalberto; Guevara, Mario; and Gonzalez, Virgilio,3,451,889.
Guex, Waldemar; Schlapfer, Reinhard; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Process for producing lithium aluminum hydride. 3,467,505, 9-16-69, Cl. 23-365.
Guffon, Rene M. P., to Ateliers Bariquand & Marre, Societe Anonyme. Optical anamorphic systems for justification of printed text lines. 3,450,464, 6-17-69, Cl. 350-182.
Guffon, Rene, to Ateliers Bariguand & Marre, Societe Anonyme. Pneumatic printers for photomechanical processes. 3,455,634, 7-15-69, Cl. 355-91.
Guffy, Willie E.: *See—*
Ellison, Donald E.; and Guffy, Willie E.,3,467,297.
Gugenhan, Heinrich; and Gego, Arnold. Control device for apparatus for thinning plants in a row. 3,452,822, 7-1-69, Cl. 172-6.
Guggenheim, Herbert, to General Foods Corporation. Process for reduction of coffee foam. 3,420,673, 1-7-69, Cl. 99-71.
Guggenheim, Howard J.; and Singh, Shobha, to Bell Telephone Laboratories, Incorporated. Rubidium iron fluoride magneto-optical devices. 3,485,551, 12-23-69, Cl. 350-151.
Gugger, Rene: *See—*
Leclercq, Rene, 3,475,595.
Guggisberg, Ernst, 'Graphicart' Internationale Ausrustungsgesellschaft fur Graphische Kunst AG. Method of and apparatus for stuffing printed matter with inserts. 3,420,516, 1-7-69, Cl. 270-55.
Guggisberg, Ernst, Graphicart Internationale Ausrustungsgesellschaft fur Graphische Kunst AG. Method of and apparatus for stuffing printed matter with inserts, particularly for stuffing newspapers and the like. 3,450,400, 6-17-69, Cl. 270-55.
Guggisberg, William R.: *See—*
Eng, Jackson; and Guggisberg, William R.,3,480,540.
Guglielmetti, Leonardo: *See—*
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil,3,429,877.
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil,3,455,837.
Guglielmetti, Leonardo; Maeder, Erwin; Liechti, Peter; and Siegrist, Adolf Emil, to Ciba Limited. Azole derivatives. 3,449,330, 6-10-69, Cl. 260-240.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo,3,444,179.
Guglielmi, Anthony C.: *See—*
Speers, Samuel F.; Jacques, Norman L.; Guglielmi, Anthony C.; and Gray, Leonard,3,466,798.
Gugliemelli, Lewis A.; Weaver, Mary Ollidene; and Russell, Charles R., to United States of America, Agriculture. Salt-resistant thickeners comprising base- saponified starch-polyacrylonitrile graft copolymers. 3,425,971, 2-4-69, Cl. 260-17.4
Gugliotta, Emanuele: *See—*
Scarfi, Alberto; and Gugliotta, Emanuele,3,451,770.
Scarfi, Alberto; and Gugliotta, Emanuele,3,459,496.
Gugliotti, Louis M., Jr., to United Aircraft Corporation. Operational amplifier having temperature compensation. 3,471,794, 10-7-69, Cl. 330-23.
Gugliotti, Louis M., Jr.; and Wells, John C., to United Aircraft Corporation. Operational amplifier analog logic functions. 3,471,714, 10-7-69, Cl. 307-230.
Gugolz, Henry J., to Urb Products Corporation. Glue applying apparatus. 3,450,093, 6-17-69, Cl. 118-7.
Guhl & Scheiblen A.G.: *See—*
Huber, Fritz, 3,453,952.
Guhne, Hans-Peter: *See—*
Bader, Otto; Guhne, Hans-Peter; Sommerfeld, Karl; and Chilla, Johannes,3,430,436.
Ruger, Frank; Guhne, Hans-Peter; and Lebig, Herbert,3,442,258.
Guibert, Raul, to Westwood Manufacturing Company, Inc. Apparatus for baking. 3,485,231, 12-23-69, Cl. 126-338.
Guice, Wilma A.: *See—*
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A.,3,420,700.
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A.,3,420,701.
Guichet, Lucien Robert; and Gotoghian, Georges Jacques, to Societe Nationale d'Etude et de Construction de Moteurs D'Aviation. Process for welding or brazing two members of which at least one is made of graphite. 3,442,006, 5-6-69, Cl. 29-472.7
Guichet, Niles F. Dental face bow. 3,431,649, 3-11-69, Cl. 32-20.
Guida, Thomas J., 25% to Dowling, James W., and 25% to Belfi, Donald E. Automatic vehicle lamp indicating system. 3,473,083, 10-14-69, Cl. 315-82.
Guidance Technology, Inc.: *See—*
De Vaul, Wayne E., 3,422,433.
Guidice, Walter W. Fifth wheel tractor. 3,439,935, 4-22-69, Cl. 280-407.
Guido Rutgers: *See—*
Giese, Ernest; Schubert, Egon; and Rienesl, Konrad, 3,460,979.
Guidos, Norman R. Mail box signal flag. 3,482,543, 12-9-69, Cl. 116-132.
Guienne, Paul Francois; and Bertin, Jean Henri, to Bertin & Cie. Supply systems for ground effect machines associated to a track. 3,482,528, 12-9-69, Cl. 104-23.
Guienne, Paul Francois; and Faure, Marc Henri Jean, to Bertin & Cie. Multi-cushion system for a surface effect vehicle. 3,438,457, 4-15-69, Cl. 180-121.
Guier, William. Anchor having pivotable flukes. 3,450,088, 6-17-69, Cl. 114-208.
Guignard, Edwin, to Igewa-A.G. Process and a device for checking a tank for leakage. 3,460,386, 8-12-69, Cl. 73-290.
Guignon, Helen G.: *See—*
Guignon, John E.; Guignon, Helen G.; and Guignon, John E., Jr.,3,444,869.
Guignon, John E., Jr.: *See—*
Guignon, John E.; Guignon, Helen G.; and Guignon, John E., Jr.,3,444,869.
Guignon, John E.; Guignon, Helen G.; and Guignon, John E., Jr. Jet cleaning device. 3,444,869, 5-20-69, Cl. 134-167.
Guilbaud, Georges; and Soffer, Jacques, to Commissariat a l'Energie Atomique. Method and device for providing protection against accidental beam deviation in linear particle accelerators. 3,448,390, 6-3-69, Cl. 328-233.
Guilbault, George G.; and Kramer, David N., to United States of America, Army. Specific fluorometric detection method for cyanide. 3,432,269, 3-11-69, Cl. 23-230.
Guilbault, Lawrence J., to General Electric Company. Pulverulent coating compositions and fluidized bed coating method. 3,485,789, 12-23-69, Cl. 260-40.
Guilbert, Incorporated: *See—*
Guilbert, Nicholas R., Jr., 3,432,055.
Guilbert, Nicholas R., Jr., 3,447,704.
Guilbert, Nicholas R., Jr., to Guilbert, Incorporated. Coupling for carts. 3,432,055, 3-11-69, Cl. 214-730.
Guilbert, Nicholas R., Jr., to Guilbert, Incorporated. Container type automatic loading and discharge system for dumbwaiters. 3,447,704, 6-3-69, Cl. 214-95.
Guild, Charles E. Adjustable solenoid operated starting gates. 3,463,493, 8-26-69, Cl. 273-86.
Guild, Charles L.; and Goodman, Willard B., to American Drilling & Boring Co., Inc. Pile driver. 3,446,293, 5-27-69, Cl. 173-131.
Guild Guidance Toys Inc.: *See—*
Genin, Robert L., 3,451,301.
Guild Metal Joining Equipment Company: *See—*
Wheeler, Donald J.; and Lohrenz, Victor, 3,431,386.
Guilden, Paul: *See—*
Kemenczky, Miklos, 3,435,201.
Guiles, Wesley L., to Automation Industries, Inc., mesne. Flexible conduit. 3,428,093, 2-18-69, Cl. 138-132.
Guilfoyle, Le Roy F.: *See—*
Istel, Jacques A.; and Guilfoyle, Le Roy F.,3,437,295.
Guillaume, Andre Eugene, deceased0 (by Boutry, Georges Albert: representative), to Laboratoires d'Electronique et de Physique Appliques L.E.P. Fast, high current electron multiplier having a collector decoupled from ground. 3,450,921, 6-17-69, Cl. 313-104.
Guillaume, Francois: *See—*
Celio, Tino; and Guillaume, Francois,3,454,343.
Guillemette, Armand: *See—*
Joly, Robert; Warnant, Julien; and Guillemette, Armand,3,458,540.

Guillemin, Germain Joseph Edmond, to Compagnie des Compteurs. Magnetometer incorporating probe in the form of a saturable ferromagnetic core subjected to the magnetic field to be measured and to an auxiliary exciting alternating field. 3,460,029, 8-5-69, Cl. 324-43.
Guillemin-Tarayre, Pierre, to Societe Anonyme dite: Compagnie Oliver. Aerosol having a mink oil base. 3,424,840, 1-28-69, Cl. 424-47.
Guillermard, Pierre; Juston, Paul; and Detuncq, Yves, to Produits Chimiques Pechiney-Saint-Gobain. Process for the extraction of citraconic acid. 3,455,963, 7-15-69, Cl. 260-346.8
Guillet, James Edwin, to Eastman Kodak Company. Lnear block copolymers produced by photochemical polymerization. 3,472,918, 10-14-69, Cl. 260-878.
Guillet, James E., to Eastman Kodak Company. Anhydrides of diperoxy dicarboxylic acids. 3,476,813, 11-4-69, Cl. 260-610.
Guilliams, Charles M. Adjustable screed cradle. 3,458,964, 8-5-69, Cl. 52-365.
Guillon, Jacques S., to Massey-Ferguson Industries Limited. Wall assembling device. 3,486,287, 12-30-69, Cl. 52-495.
Guillot, Claude, to Compagnie des Ateliers et Forges de la Loire. Metal strip planing machines operating by alternate bendings. 3,429,165, 2-25-69, Cl. 72-165.
Guillot, Claude; and Peuchmaur, Alphonse, to Commissariat a l'Energie Atomique. Perforated plate and tank fitted therewith. 3,442,060, 5-6-69, Cl. 52-673.
Guillotin, Jean, to Societe de Recherches et d'Exploitation d' Inventions Guillotin. Disc mower. 3,483,685, 12-16-69, Cl. 56-25.4
Guimard, Andre: *See*—
Grumbach, Marc; and Guimard, Andre,3,439,532.
Guimento, Angelo; and Kitzmiller, Charles T., to Philco-Ford Corporation. Cryogenically cooled radiation detection apparatus. 3,445,659, 5-20-69, Cl. 250-83.
Guimond, Edward B., to Quikphone, Inc., mesne. Telephone answering apparatus. 3,466,396, 9-9-69, Cl. 179-6.
Guimond, Jean P.: *See*—
Lagasse, Joseph Louis; Palardy, Jacques; Greenlay, John E.; Guimond, Jean P.; and Toussaint, Marcel,3,485,432.
Guin, Joel B. Inertial activator device. 3,423,746, 1-21-69, Cl. 340-262.
Guin, Joel B. High speed crushers. 3,434,672, 3-25-69, Cl. 241-194.
Guin, Joel B. High speed vibration drills. 3,439,756, 4-22-69, Cl. 175-92.
Guin, Joel B. Lever operated flow control device with dashpot. 3,450,381, 6-17-69, Cl. 251-50.
Guinet, Paul Alfred Eugene: *See*—
Delaval, Jean Claude; Guinet, Paul Alfred Eugene; and Morel, Jean,3,439,013.
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael, to Rhone-Poulenc S.A. Process for splitting silanes. 3,432,537, 3-11-69, Cl. 260-448.2
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael, to Rhone-Poulenc S.A.Process for the preparation of β cyanoethyltrichlorosilane employing pyrazolone catalysts. 3,448,135, 6-3-69, Cl. 260-448.2
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael, to Rhone-Poulenc S.A. Preparation of 1,3,5,7-tetramethyl-1,3,5,7-tetraphenylcyclosiloxane. 3,484,469, 12-16-69, Cl. 260-448.2
Guingand, Jean Raymond, to Societe Anonyme Heurtey. Bell furnaces for heat treating coiled strip metal and the like. 3,424,444, 1-28-69, Cl. 266-5.
Guingand, Jean Raymond, to Societe Anonyme Heurtey. Apparatus for preparing steel strip for metallization operations and particularly galvanization. 3,439,907, 4-22-69, Cl. 266-3.
Guingand, Jean Raymond, to Societe Anonyme Heurtey. Devices for measuring forces in a moving strip. 3,453,875, 7-8-69, Cl. 73-140.
Guinn, Jerry H.; and Wright, William Sherwood, 50% to Cardinal Chemical, Inc., and Producers Chemical Company. Well treating methods using temperature surveys. 3,480,079, 11-25-69, Cl. 166-250.
Guinn, John T., Jr.: *See*—
Smith, Lloyd B.; Guinn, John T., Jr.; and Cox, Allan,3,477,111.
Guinness, Arthur, Sons & Company (Dublin) Limited: *See*—
Pollack, James Richard Allan; Pool, Alan Aldred; and Ellis, Graham John, 3,450,600.
Guinoiseau, Henri, to Societe Francaise de Construction de Bennes Automatiques Benoto. Trenching machine having earthworking members extending to progressively greater depths. 3,466,768, 9-16-69, Cl. 37-101.
Guinot, Gabriel L., to Societe Anonyme Poclain. Hydraulic power transmission for vehicles. 3,422,917, 1-21-69, Cl. 180-66.
Guinot, Gabriel L., to Societe Anonyme Poclain. Device for releasing or producing hydraulic pressure in a chamber. 3,439,579, 4-22-69, Cl. 91-44.
Guinot, Gabriel L. Method of operating extendable and retractable stabilising stays or props of public works vehicles and an hydraulic system for carrying out said method. 3,442,530, 5-6-69, Cl. 280-150.5
Guinot, Gabriel L., to Societe Anonyme Poclain. Bucket ejector assembly for an excavating grab. 3,451,151, 6-24-69, Cl. 37-187.
Guinot, Gabriel L., to Societe Anonyme Poclain. Vehicle with improved steering device. 3,465,843, 9-9-69, Cl. 180-79.3
Guinot, Gabriel L., to Societe Anonyme Poclain. Extension frame to adapt a normal drilling bucket for carrying out deep drilling. 3,470,973, 10-7-69, Cl. 175-238.
Guinot, Gabriel L., to Societe Anonyme Poclain. Earth working machine. 3,484,005, 12-16-69, Cl. 214-138.
Guinot, Gabriel, to Societe Anonyme Poclain. Means for orienting the earth working implement of a mechanical earth working machine. 3,481,640, 12-2-69, Cl. 294-86.
Guinter, S Robert: *See*—
Provi, Mike A.; and Guinter, S Robert,3,460,642.
Provi, Mike A.; and Guinter, S. Robert,3,478,618.
Guise, Arthur B.; and Hanson, Garry O., to Ansul Company, The. Apparatus for producing a stream of dry chemical particles. 3,447,610, 6-3-69, Cl. 169-31.
Guisinger, John E.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,328.
Guizzi, Alberto: *See*—
Mariani, Brunello; Guizzi, Alberto; and Tisselli, Eugenio,3,476,564.
Gula, Eugene; and Ross, Stanley E., to Stevens, J. P. & Co., Inc. Process for forming textiles on heat degradable backings. 3,438,107, 4-15-69, Cl. 28-76.
Gularte, Ronald C.; and Platus, David L., to Mechanics Research, Inc. Energy absorbing arrangement. 3,435,919, 4-1-69, Cl. 188-1.
Gularte, Ronald C.: *See*—
Platus, David L.; and Gularte, Ronald C.,3,426,869.
Gulbenk, Alin H., to Dow Chemical Company, The. Process for preparing tetrabromopyrazine. 3,471,496, 10-7-69, Cl. 260-250.
Gulde, Charles James, to Crowe-Gulde Cement Company. Apparatus for making concrete facing bricks with varied surface color and texture. 3,425,105, 2-4-69, Cl. 25-2.
Guldenfels, Willy; and Hoenger, Rudolf, to Basler Stueckfaerberei A.G. Process for the production of fiber-reinforced tubes of synthetic resin. 3,475,532, 10-28-69, Cl. 264-310.
Guldenpfennig, Rolf, to Reichhold Chemie Aktiengesellschaft. Water-dilutable heat-curable lacquer compositions. 3,481,890, 12-2-69, Cl. 260-20.
Guldimann, Simon: *See*—
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav,3,478,022.
Gulf General Atomic Incorporated: *See*—
Antonsen, Knud; Rosenberg, Richard; and Wiard, Hadley K., 3,483,380.
Bass, John C., 3,429,203.
Bell, Francis R.; and Menzel, Horst F., 3,456,621.
Brower, David F.; and Wildi, Paul, 3,486,356.
Compton, Dinsdale M. J.; and Snodgrass, Herschel R., 3,436,152.
Creutz, Edward C., 3,460,318.
Dunne, Brian B., 3,451,008.
Fortescue, Peter; Ringsmuth, Richard J.; and Schultz, George M., 3,448,006.
Fortescue, Peter, 3,461,034.
Fortescue, Peter; and Shanstrom, Raymond T., 3,475,272.
Hammond, Robert H., 3,449,092.
Humphries, John R., Jr., 3,445,334.
Jansen, Hansjorg; and Wildi, Paul, 3,426,564.
Jansen, Hansjorg, 3,427,842.
Kline, James A., 3,423,978.
Merten, Ulrich, 3,429,957.
Miller, Park H., Jr., 3,437,922.
Miller, Park H., Jr., 3,469,189.
Riley, Robert L., 3,428,584.
Roza, Jorge E., 3,443,231.
Scott, Franklin R.; Fleischmann, Hans H. P.; and Tuckfield, Ralph G., Jr., 3,445,722.
Simnad, Massoud T.; Meyer, Robert A.; and Vanek, Richard P., 3,436,790.
Smith, Kenneth F.; and May, Richard K., 3,423,979.
Snodgrass, Herschel R., 3,472,334.
Wildi, Paul, 3,429,159.
Wildi, Paul, 3,453,463.
Wildi, Paul, 3,487,456.
Gulf Oil Corporation: *See*—
Anspon, Harry D.; and Smith, Wayne E., 3,424,714.
Anspon, Harry D.; and Alexander, Richard L., 3,427,296.
Anspon, Harry D.; and Robb, Howard E., 3,472,916.
Anspon, Harry D.; and Hurst, Jack, 3,486,929.
Barr, Norman E.; and Tuttle, Charles E., Jr., 3,474,729.
Beckett, Joseph K., 3,481,402.
Burdick, Donald L.; and Lyons, Harold D., 3,440,188.
Burdick, Donald L.; Francis, William C.; and Jones, Joseph W. Jr., 3,448,084.
Cahoy, Roger P.; and Coyne, Donald M., 3,439,045.
Cahoy, Roger P.; and Coyne, Donald M., 3,446,753.
Coyne, Donald M.; and Cahoy, Roger P., 3,444,240.

DeFeo, Richard J., 3,462,486.
Glabisch, Dietrich, 3,437,626.
Ham, George E., 3,484,393.
Harvey, Charles H., 3,428,366.
Helin, Arthur F., 3,436,363.
Hill, Robert W.; and Hopkins, Thomas R., 3,467,706.
Hill, Robert W.; and Galiano, Francis R., 3,480,693.
Hurst, Jack, 3,429,860.
Kelly, Richard L., 3,453,227.
Lampe, Harry G., 3,457,987.
Ludwig, Robert L.; and Rusling, George Roy, 3,423,980.
Mantell, Gerald J.; Helin, Arthur F.; and Wutz, Adolf A., 3,459,698.
McPherson, Wilbur A.; and Hamilton, Robert W., 3,446,486.
Neighbors, Ralph P., 3,449,113.
Neighbors, Ralph P., 3,457,063.
Rankin, David, 3,480,463.
Robicheaux, Warren J., 3,466,829.
Smith, Wayne E.; Alwani, Dru W.; and Anspon, Harry D., 3,420,798.
Smith, Wayne E.; Mantell, Gerald J.; and Chapin, Earl C., 3,449,277.
Smith, Wayne E.; Anspon, Harry D.; Ham, George E., Jr.; and Alwani, Dru W., 3,474,062.
Westling, Randolph E., 3,431,879.

Gulf Research & Development Company: *See*—
Acheson, Willard P.; and Torcaso, Michael A., 3,467,206.
Ackerman, Carl D.; and Hill, John K., 3,481,203.
Alexander, Richard L.; Anspon, Harry D.; and Brown, Francis E., 3,466,265.
Anspon, Harry D.; and Brown, Francis E., 3,485,812.
Beuther, Harold; and Schmid, Bruce K., 3,444,073.
Bodnar, Albert J., 3,470,384.
Carlson, Edgar; and Wynne, Francis E., Jr., 3,433,734.
Carr, Norman L.; and Somers, Allen E., 3,440,013.
Cooper, Peter G.; Michelon, Philippe A.; and Murphy, Clarence R., 3,461,139.
Dimond, Harold L.; and Pascarella, Vincent J., 3,461,053.
Dimond, Harold L.; Hurley, Daniel J.; and Pascarella, Vincent J., 3,487,104.
Donaldson, Robert E.; Murphy, Harry C., Jr.; and Stauffer, Harry C., 3,481,863.
Doyle, William Carter, 3,458,305.
Ellis, Alan F., 3,453,278.
Fareri, Elizabeth L.; McGuire, Robert J.; and Strange, Harold O., 3,433,607.
Fernald, Herbert B.; Gall, William; and Swift, Harold E., 3,441,631.
Fernald, Herbert B.; Gall, William; and Swift, Harold E., 3,444,263.
Fernald, Herbert B.; Gall, William; and Swift, Harold E., 3,444,264.
Fernald, Herbert B.; and Lynch, Eugene F., 3,477,813.
Fernald, Herbert B.; Gall, William; and Kresge, Alfred N., 3,477,819.
Fernald, Herbert B.; Gall, William; and Swift, Harold E., 3,478,124.
Fernald, Herbert B.; Gwynn, Bernard H.; and Kresge, Alfred N., 3,482,000.
Francis, David W.; and Heilman, William J., 3,458,567.
Galiano, Francis R.; and Hill, Robert W., 3,461,186.
Giannetti, Joseph P.; McIlvried, Howard G., III; and Sebulsky, Raynor T., 3,441,514.
Giannetti, Joseph P.; Henke, Alfred M.; Sebulsky, Raynor T.; and Starnes, William C., 3,466,250.
Giannetti, Joseph P.; Mc Ilvried, Howard G.; and Sebulsky, Raynor T., 3,472,790.
Goldthwait, Richard G.; and Kwolek, Stanley J., 3,437,589.
Goodwin, Robert J.; Mori, Ernest A.; Pekarek, Joseph L.; Schaub, Paul W.; and Zinkham, Robert E., 3,467,211.
Goodwin, Robert J.; and Pekarek, Joseph L., 3,469,642.
Gull, Proctor W., 3,465,758.
Hamilton, Harry A.; McIlvried, Howard G.; and Sebulsky, Raynor T., 3,461,064.
Hardwick, Thomas J.; and Jarvie, John M., 3,458,416.
Harris, Martin H.; Smith Francis M.; and Jennings, James W., 3,447,607.
Hay, Russell G.; and Walsh, William L., 3,437,445.
Hay, Russell G.; Mc Nutly, John G.; and Walsh, William L., 3,461,184.
Heilman, William J., 3,441,543.
Heilman, William J., 3,453,246.
Heilman, William J.; and Jenkins, David M., 3,461,108.
Henke, Alfred M.; Luzar, Ronald V.; and McKinney, Joel D., 3,487,011.
Huitt, Jimmie L., 3,455,388.
Hurley, Daniel J.; Kresge, Alfred N.; Rosenthal, Robert W.; and Williamson, Roger C., 3,437,573.
Jewell, Douglas M.; and Yevich, Joseph, 3,446,729.
Kerns, Bernard A.; and Larson, Olaf A., 3,446,730.
Lese, Henri K.; McCracken, John H.; and Schulz, Johann G. D., 3,448,146.
Lese, Henri K.; Schulz, Johann G. D.; and Whitaker, Arthur C., 3,479,400.
McCarthy, Paul R.; and Orem, Thomas R., 3,423,315.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C., 3,453,321.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C., 3,466,301.
McGrath, Joseph J.; and Spilners, Ilgvars J., 3,448,082.
McGrath, Joseph J.; and Tempalski, Chester S., 3,478,087.
McKinney, Joel D.; and Offutt, William C., 3,423,307.
Mori, Ernest A.; and Schaub, Paul W., 3,424,255.
Mori, Ernest A., 3,472,324.
Mott, William E.; and Rhodes, Donald F., 3,437,808.
Mott, William E.; and Rhodes, Donald F., 3,437,809.
Muirhead, John F., Jr.; and Pekarek, Joseph L., 3,454,959.
Murphy, James R., 3,423,308.
Neighbors, Ralph P.; and Phillips, Lee V., 3,451,802.
Peck, Carl M., 3,466,245.
Pellegrini, John P., Jr.; and Strange, Harold O., 3,481,958.
Phillips, Lee V.; and Latham, Archie J., 3,471,621.
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo, 3,424,789.
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo, 3,467,698.
Suatoni, Joseph Charles, 3,424,810.
Taylor, Maurice E., 3,469,921.
Terwilliger, Paul L.; and Smith, Francis M., 3,443,429.
Terwilliger, Paul L., 3,465,826.
Walsh, Bruce R., 3,423,928.
Warren, Joseph E., 3,422,893.
Wyllie, Malcolm R. J., 3,439,743.
Wyllie, Malcolm R. J., 3,447,330.

Gulfo, Jon: *See*—
Handler, Martin M.; Gulfo, Jon; and Bonat, Jerome B.,3,469,328.

Gulick, Graham L.: *See*—
Schroeder, Duane A.; and Gulick, Graham L.,3,484,929.

Gulick, Rodwin E.: *See*—
Chow, Sui-Wu; Gulick, Rodwin E.; and Orttung, Frederick W., Jr.,3,445,362.

Gulick, William K., to General Electric Company. Spring-biased valve with anti-chattering feature. 3,465,787, 9-9-69, Cl. 137-539.5

Gulino, Rosario; and Hall, Kenneth H., to General Dynamics Corporation. Decompression monitor. 3,463,015, 8-26-69, Cl. 73-432.

Gull, Proctor W., to Gulf Research & Development Company. Ear corn sampler. 3,465,758, 9-9-69, Cl. 130-9.

Gulla, Michael, to Shipley Company, Inc. Compositions and processes for electroless nickel plating. 3,420,680, 1-7-69, Cl. 106-1.

Gulla, Michael: *See*—
Shipley, Charles R., Jr.; and Gulla, Michael,3,457,089.

Gullaksen, Gilbert V., to Wrightway Engineering Co. Selective aerating device. 3,450,350, 6-17-69, Cl. 239-428.5

Gullaksen, Jarl Eilif: *See*—
Wennerberg, Fritz Johan; and Gullaksen, Jarl Eilif,3,425,083.

Gulledge, Hugh C.: *See*—
Brill, Harold C.; Gulledge, Hugh C.; and Ramsay, Howard L.,3,483,068.
Emslie, Robert S.; Gulledge, Hugh C.; Lewis, George L.; and Willcox, Oswin Burr,3,484,260.

Gullett, David E.; and Reynolds, Edmond F., to Foote Mineral Company. Apparatus for the electrowinning of manganese. 3,477,937, 11-11-69, Cl. 204-263.

Gullett, Robert C.: *See*—
Smith, Roy E.; and Gullett, Robert C.,3,487,219.

Gulley, John M. Self guiding tooling systems. 3,485,306, 12-23-69, Cl. 173-32.

Gullick, Denzil S., to Dowty Rotol Limited. Sealing devices. 3,469,853, 9-30-69, Cl. 277-112.

Gullick Limited: *See*—
Roberts, Stanley, 3,483,705.
Small, Fred, 3,471,201.

Gulotta, Joseph A., to PPG Industries, Inc. Manufacture of float glass of thickness greater than equilibrium thickness. 3,432,284, 3-11-69, Cl. 65-99.

Gulotta, Joseph A., to PPG Industries, Inc. Method and apparatus for initially restricting the divergent flow of float glass. 3,432,285, 3-11-69, Cl. 65-99.

Gulpen, Nicolaas Joseph H.; and Gerritsen, Hans G., to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Chemical process and products. 3,431,247, 3-4-69, Cl. 260-88.2

Gulton Industries, Inc.: *See*—
Angleton, Paul A.; and Hayer, John R., 3,487,238.
Ritterman, Paul F., 3,483,259.
Rudnick, Norman, 3,474,268.
Seiger, Harvey N.; and Dagnall, Robert J., 3,451,901.

Gulyaev, Gennady Ivanovich: *See—*
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.

Gulyas, James W.: *See—*
Veltman, Herbert; O'Kane, Patrick T.; Gulyas, James W.; and Middagh, William R.,3,477,927.

Gum, Earl R.; and Vandaveer, Roscoe F., to Pan American Petroleum Corporation. Cyclic steam injection and gas drive. 3,460,621, 8-12-69, Cl. 166-263.

Gumboldt, Albert Gustav Martin; and Noetzel, Siegfried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing copolymers of azetidinones-(2) and lactones. 3,477,997, 11-11-69, Cl. 260-78.

Gumin, Heinz; and Weber, Helmut, to Siemens Aktiengesellschaft. Coincidence gate circuit with low-ohmic load. 3,482,112, 12-2-69, Cl. 307-218.

Guminski, Roman Dominik: *See—*
Sheasby, Peter Geoffrey; Short, Edward Percival; and Guminski, Roman Dominik,3,468,772.

Gumlich, Walter: *See—*
Wieschollek, Helmut; and Gumlich, Walter,3,479,303.

Gummel, Hermann K.: *See—*
De Loach, Bernard C., Jr.; Gummel, Hermann K.; and Scharfetter, Donald L.,3,426,295.

Gummel, Hermann K.; and Murphy, Bernard T., to Bell Telephone Laboratories, Incorporated. Time scaled analog model test circuit for an active element and method of making such. 3,471,786, 10-7-69, Cl. 324-158.

Gummer, Allen L.; and Mathews, George P., to M G M Brakes. Inc. Brake actuating mechanism. 3,424,062, 1-28-69, Cl. 92-63.

Gummiwerke Aktiengesellschaft: *See—*
Wollmann, Ernest; and Morgenbesser, Wilhelm, 3,426,443.

Gump, J. R., to Sylvania Electric Products, Inc. Process for separating yttrium from the lanthanide elements. 3,482,932, 12-9-69, Cl. 23-22.

Gumpertz, Donald G. Display tube having character mask with electron gun individual to each character. 3,432,710, 3-11-69, Cl. 313-69.

Gumprecht, William Henry; and Johnson, Rulon Edward, Jr., to Du Pont de Nemours, E. I., and Company. Non-foaming perfluorinated polyethers. 3,445,392, 5-20-69, Cl. 252-54.

Gumucio, Ricardo Salcedo, to Instituto Nacional de Industria. Solar distillation of foamed saline water to recover fresh water. 3,428,529, 2-18-69, Cl. 203-10.

Gumucio, Ricardo Salcedo; and Ardanuy, Angel Pascual, to Instituto Nacional de Industria. Storage battery. 3,440,100, 4-22-69, Cl. 136-26.

Gunderloy, Frank C., Jr.: *See—*
Wagner, Ross I.; Grant, Louis R., Jr.; and Gunderloy, Frank C., Jr.,3,484,315.

Gunderman, Glen L.: *See—*
Hart, Gerald M.; and Gunderman, Glen L.,3,480,506.

Gunderson, Frederick Allan; and Jonsson, Einar, to White Motor Corporation. Infinitely variable transmission system. 3,427,899, 2-18-69, Cl. 74-687.

Gunderson, Olaf August, to Alfsen OG Gunderson A/S. Apparatus for conditioning of webs of material. 3,456,361, 7-22-69, Cl. 34-155.

Gunderson, Paul E.; Kulterman, Robert W.; and Stockdale, Norman S., to International Business Machines Corporation. Magnetic punch system. 3,465,958, 9-9-69, Cl. 234-108.

Gunderson, Ralph R. Adhesive reflector unit with flexible backing. 3,441,336, 4-29-69, Cl. 350-67.

Gunderson, Robert O.; and Lauffer, Donald K., to National Cash Register Company, The. High speed logical circuit. 3,482,111, 12-2-69, Cl. 307-203.

Gunderson, Robert O.; Valentine, Sidney L.; Jurick, Martin H.; and Higashi, Paul, to National Cash Register Company, The. Electronic data processing system. 3,426,328, 2-4-69, Cl. 340-172.5

Gundlach, Aug., GmbH: *See—*
Hartmann, Rolf, 3,470,284.

Gundlach, Karl-Heinz: *See—*
Billing, Heinz; Rudiger, Albrecht; and Gundlach, Karl-Heinz,3,432,817.

Gundlach, Robert W.: *See—*
Bean, Lloyd F.; and Gundlach, Robert W.,3,443,938.

Gundlach, Robert W., to Xerox Corporation. Electrostatic charge image recorder. 3,426,354, 2-4-69, Cl. 346-74.

Gundlach, Robert W., to Xerox Corporation. Image reproduction involving electrostatic transfer of a releasable donor film from a photoconductive insulating layer to an adhesive transfer member. 3,438,772, 4-15-69, Cl. 96-1.

Gundlach, Robert W., to Xerox Corporation. Electrostatic duplicating system employing relief printing plate. 3,443,517, 5-13-69, Cl. 101-219.

Gundlach, Robert W., to Xerox Corporation. Powder cloud development of electrostatic images. 3,470,009, 9-30-69, Cl. 117-17.5

Gundlach, Robert W., to Xerox Corporation. Image projector apparatus. 3,481,668, 12-2-69, Cl. 353-38.

Gundlach, Robert W.; and Bean, Lloyd F., to Xerox Corporation. Frost gravure print master. 3,445,226, 5-20-69, Cl. 96-1.1

Gundlach, Theodore F., to J.M.J. Industries, Inc. Crushing and sizing rolls. 3,474,973, 10-28-69, Cl. 241-236.

Gundlach, William J., to Geo Space Corporation. Combined actuator and catcher for gas exploders. 3,474,880, 10-28-69, Cl. 181-0.5

Gundlich, Heinz: *See—*
Huller, Adolf; Gundlich, Heinz; and Merker, Joachim,3,443,309.

Gungle, Warren C.; Peterson, Carl L.; and Waymouth, John F., to Sylvania Electric Products Inc. Harness construction for metal arc type lamp. 3,424,935, 1-28-69, Cl. 313-227.

Gunkel, Dietrich. Pre-assembled, sub-enclosure, building section. 3,473,273, 10-21-69, Cl. 52-79.

Gunkel, Walter A., to Southwest Research Institute. Ultrasonic inspection apparatus. 3,482,435, 12-9-69, Cl. 73-67.9

Gunkel, Walter A.; and Van der Veer, William R., to Southwest Research Institute. Method of and apparatus for high speed magnetic inspection of tubular goods. 3,437,917, 4-8-69, Cl. 324-37.

Gunkler, Albert A.: *See—*
Goodenough, Robert D.; Place, John; and Gunkler, Albert A.,3,436,345.

Gunlock, Donald E., to General Motors Corporation. Border wire assembly. 3,475,770, 11-4-69, Cl. 5-351.

Gunn, David L., to Motorola, Inc. Frequency responsive reed decoder with low sensitivity to physical shock. 3,475,728, 10-28-69, Cl. 340-164.

Gunn, Duncan Alexander: *See—*
Lees, John; and Gunn, Duncan Alexander,3,423,983.

Gunn, John B., to International Business Machines Corporation. Sampled radar system. 3,423,754, 1-21-69, Cl. 343-17.1

Gunn, John B., to International Business Machines Corporation. Parametric computers and method of operating same. 3,433,974, 3-18-69, Cl. 307-88.

Gunn, John B., to International Business Machines Corporation. Electrical shock wave (Gunn effect) logical apparatus. 3,452,221, 6-24-69, Cl. 307-299.

Gunn, John B., to International Business Machines Corporation. Step and repeat devices. 3,462,219, 8-19-69, Cl. 355-53.

Gunn, John C. Shaving mirror accessory. 3,478,996, 11-18-69, Cl. 248-473.

Gunn-Russell, Charles, to Leesona Corporation. Photoelectric defect detector with independent control of width and length of defects. 3,445,671, 5-20-69, Cl. 250-219.

Gunn-Russell, Charles, to Leesona Corporation. Half wave photo modulator. 3,447,101, 5-27-69, Cl. 332-3.

Gunn-Russell, Charles, to Leesona Corporation. Control circuits. 3,448,347, 6-3-69, Cl. 317-123.

Gunn-Russell, Charles, to Leesona Corporation. Electrical apparatus for detecting changes in the quality of a medium. 3,453,053, 7-1-69, Cl. 356-200.

Gunn-Russell, Charles, to Leesona Corporation. Apparatus for detecting slowly changing characteristics of moving yarn. 3,456,116, 7-15-69, Cl. 250-219.

Gunnell, Thomas J., to Phillips Petroleum Company. Production of carbon black. 3,431,075, 3-4-69, Cl. 23-209.4

Gunnell, Thomas J.; and Stegelman, Albert F., to Phillips Petroleum Company. Apparatus for production of high temperature gases and carbon black. 3,468,632, 9-23-69, Cl. 23-259.5

Gunnergaard-Poulsen, Marius, to Dansk Industri Syndikat A/S. Core insertion unit for casting molds. 3,424,229, 1-28-69, Cl. 164-340.

Gunnerich, Max Georg: *See—*
Kappelhoff, Hermann; Gunnerich, Max Georg; Paul, Walter; Steinbeck, Walter; and Niemeyer, Willy,3,448,666.

Gunnerson, Dale B.: *See—*
Ruggles, Kay L.; Gunnerson, Dale B.; and Clark, Howard S.,3,433,860.

Gunning, Harry E., to Esso Research and Engineering Company. Preparation of vinylmercaptans. 3,474,016, 10-21-69, Cl. 204-162.

Gunning, Paul E. Prefabricated eave member. 3,436,877, 4-8-69, Cl. 52-11.

Gunnink, Harry J. Container. 3,433,399, 3-18-69, Cl. 229-5.6

Gunson, William E.; Sutherland, John D.; and Tower, Stephen N., to Westinghouse Electric Corporation. Nuclear reactor and refueling cell arrangement. 3,437,558, 4-8-69, Cl. 176-52.

Gunson's Sortex Limited:*See—*
Chapman, Thomas Henry, 3,439,172.

Gunst, Alfred, to International Standard Electric Corporation. Magnetic coupling for multiple contact relays. 3,430,167, 2-25-69, Cl. 335-152.

Gunter & Cooke, Inc.: *See—*
O'Neal, James Everett; Gunter, Josef Karl; and Gunter, Colie Walton, 3,457,618.

Gunter, Addison Y.: *See—*
Davidson, Eugene M.; Gunter, Addison Y.; and Owen, Tom E.,3,482,299.

Gunter, Addison Y., to Hudson Engineering Corporation. Plate fins. 3,438,433, 4-15-69, Cl. 165-151.

Gunter, Allen: *See*—
Horwood, John Maurice; Gunter, Allen; and Fry, Albert John,3,428,269.
Gunter, Colie Walton: *See*—
O'Neal, James Everett; Gunter, Josef Karl; and Gunter, Colie Walton,3,457,618.
Gunter, Dalton D. Charcoal starter. 3,453,975, 7-8-69, Cl. 110-1.
Gunter, Ernest M.; and Simon, James L., to Bell Telephone Laboratories, Incorporated. Ringing signal detector which distinguishes ringing signal from periodic noise. 3,435,152, 3-25-69, Cl. 179-84.
Gunter, Josef Karl: *See*—
O'Neal, James Everett; Gunter, Josef Karl; and Gunter, Colie Walton,3,457,618.
Guntermann, Hans, to Elektro-Thermit G.m.b.H. Aluminothermic welding process. 3,421,570, 1-14-69, Cl. 164-53.
Guntermann, Hans, to Elektro-Thermit G.m.b.H. Motorized grinding machine for grinding rails. 3,427,758, 2-18-69, Cl. 51-178.
Gunther, Conrad J.: *See*—
Dzus, Theodore; and Gunther, Conrad J.,3,473,203.
Gunther, Donald A., to American Sterilizer Company. Process and apparatus for removing amines from steam vapors. 3,424,548, 1-28-69, Cl. 21-94.
Gunther, Donald A., to American Sterilizer Company. Filtration and distillation process. 3,428,556, 2-18-69, Cl. 210-26.
Gunther, Donald A., to American Sterilizer Company. Electrolytic process for producing pyrogen free deionized water. 3,440,157, 4-22-69, Cl. 204-152.
Gunther, Fred C. Air-supported marine vehicle. 3,473,503, 10-21-69, Cl. 114-67.
Gunther, Johannes, to Fernseh G.m.b.H. Television transmission delay compensation apparatus. 3,420,951, 1-7-69, Cl. 178-69.5
Gunther, Karl-Georg: *See*—
Schenk, Horst; Gunther, Karl-Georg; and Kulb, Wilhelm,3,431,625.
Gunther, Klaus: *See*—
Roscher, Gunter; Gunther, Klaus; Probst, Otto; and Scholderer, Jorg,3,438,870.
Gunther, Ludwig: *See*—
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Gunther, Norbert; Schreiber, Otto; Rubl, Wilhelm; and Griebisch, Otto, to Zeiss-Stiftung, Carl, d/b/a Zeiss, Carl. Optical rangefinder device including means for adjusting the lead angle. 3,436,150, 4-1-69, Cl. 356-12.
Gunther, Peter; and Herlinger, Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Catalytic process for the polymerization of vicinal alkylene oxides. 3,450,647, 6-17-69, Cl. 260-2.
Gunther, Rush B., to Duriron Company, Inc., The. Valve handle with torque limit adjustment means. 3,441,115, 4-29-69, Cl. 192-56.
Gunther Wagner Pelikan-Werke: *See*—
Litzka, Hans, 3,467,477.
Guntsch, Fritz Rudolf: *See*—
Grimm, Wilhelm; Guntsch, Fritz Rudolf; Strauss, Werner; and Luther, Gunther,3,426,179.
Gunyou, Lyman J.: *See*—
Stott, Ted; Gunyou, Lyman J.; Frushour, George V.; and Groeneveld, Wilbur E.,3,425,194.
Young, Paul E.; and Gunyou, Lyman J.,3,450,138.
Gunze Limited: *See*—
Miyazawa, Homare; Tarui, Shoichi; and Kamada, Masaki, 3,465,720.
Miyazawa, Homare; Tarui, Shoichi; Kamada, Masaki; and Masuda, Hiroshi, 3,465,721.
Gupta, Subodh C., to Haveg Industries, Inc. Glass bonded alumina. 3,457,091, 7-22-69, Cl. 106-39.
Guptill, Frank E., Jr.: *See*—
Hess, Howard V.; and Guptill, Frank E., Jr.,3,485,882.
Gura, Robert J.; and Hodina, Edward G., to TRW, Inc. Control circuitry for automatically operated guns. 3,440,926, 4-29-69, Cl. 89-135.
Gurevich, Leib Borukhovich: *See*—
Svilpe, Karl Yanovich; Luft, Genakh Maxovich; Betiyan, Andris Alfredovich; Milyaev, Viktor Vasilievich; Gurevich, Leib Borukhovich; and Seleznev, Ivan Vasilievich,3,432,790.
Gurganious, Joseph T., to United States of America. Dynamically buoyant portable bridge. 3,458,884, 8-5-69, Cl. 14-27.
Gurgiolo, Arthur E.; and Holmes, William S., to Dow Chemical Company, The. Process for making granular polymers. 3,420,791, 1-7-69, Cl. 260-33.6
Gurgiolo, Arthur E.; and Langner, Ralph R., to Dow Chemical Company, The. Purification of poly(alkylene oxides). 3,462,379, 8-19-69, Cl. 260-2.
Gurien, Harvey: *See*—
Focella, Antonino; Gurien, Harvey; and Rachlin, Albert Israel,3,431,301.
Gurinsky, David H.; Powers, Richard M.; and Susskind, Herbert, to United States of America, Atomic Energy Commission. Prevention of seizing in liquid metal environments. 3,429,774, 2-25-69, Cl. 176-38.
Gurkin, Martin: *See*—
Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin,3,484,247.
Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin,3,484,248.
Moore, Thomas Roscoe, Jr.; Graham, Harold Nathanial; and Gurkin, Martin,3,484,246.
Gurkin, Martin, to Lipton, Thomas J., Inc. Pressure conversion of green tea. 3,445,236, 5-20-69, Cl. 99-76.
Gurley, Grey Manning, to AMP Incorporated. Crimping apparatus having strip feeding means. 3,456,477, 7-22-69, Cl. 72-337.
Gurley, Grey Manning; and Over, William Roderick, to AMP Incorporated. Apparatus for connecting corresponding wires of pairs of wires to each other. 3,431,621, 3-11-69, Cl. 29-203.
Gurley, Jesse Fred, Jr., to Mobay Chemical Company. Mixing apparatus. 3,420,506, 1-7-69, Cl. 259-7.
Gurley, Jesse Fred, Jr.; Harp, Emile F.; and Reichard, Edward L., to Mobay Chemical Company. Solid particle dispersing apparatus. 3,437,276, 4-8-69, Cl. 241-38.
Gurley, Jesse Fred: *See*—
McGregor, William A., Jr.; Gemeinhardt, Paul G.; and Gurley, Jesse Fred,3,421,932.
Gurr, Frank K., 50% to North, Alfred E. Exhaust gas burner and muffler. 3,470,689, 10-7-69, Cl. 60-30.
Gurr, Robert H.: *See*—
Broggie, Roger E.; and Gurr, Robert H.,3,467,026.
Gurries Manufacturing Co.: *See*—
Curlett, John, 3,439,553.
Gursky, Ladislav A.; Suter, Charles A.; and Robinson, Keith D., to Goodyear Tire & Rubber Company, The. Method of building fabric elastomeric container. 3,453,164, 7-1-69, Cl. 156-198.
Gurtler, Charles A.: *See*—
Nelson, Clifford H.; and Gurtler, Charles A.,3,425,268.
Gurule, Benjamin P. Geodesic structure. 3,451,881, 6-24-69, Cl. 161-7.
Gusakov, Gennady Nilolaevich: *See*—
Roschin, Vladislav Vasilievich; Muromtsev, Boris Ivanovich; Gusakov, Gennady Nilolaevich; and Maslov, Leonid Ivanovich,3,480,758.
Gushard, William H.: *See*—
Dubois, Robert A.; and Gushard, William H.,3,445,031.
Gusich, Andrew J.: *See*—
Berger, Carl H., 3,425,066.
Gusstahlwerk Wittmann AG: *See*—
Blomecke, Werner; Freystein, Wolfgang; and Gasper, Herbert, 3,450,061.
Gustafson, Adolf Gunnar. Magnetically operated switches. 3,456,217, 7-15-69, Cl. 335-207.
Gustafson, Ake, to Tetra Pak A.G. Method and apparatus for producing an unkinked tube from a web of material. 3,482,491, 12-9-69, Cl. 93-82.
Gustafson, Floyd C., to Lunkenheimer Company, The, mesne. Torque responsive overload actuator to stop drive and brake. 3,423,661, 1-21-69, Cl. 318-475.
Gustafson, George W.: *See*—
Jasper, Ronald J.; and Gustafson, George W.,3,429,097.
Gustafson, Harry C., to Fuller Laboratories, Inc. Swab type applicator. 3,443,562, 5-13-69, Cl. 128-269.
Gustafson, Henry E.; and Johnson, Harold L. Flexible tube valve having positive opening and closing means. 3,473,779, 10-21-69, Cl. 251-9.
Gustafson Manufacturing Company: *See*—
Cordell, Ray R., 3,472,079.
Gustafson, Robert M., to International Business Machines Corporation. Magnetic core memory array construction. 3,474,422, 10-21-69, Cl. 340-174.
Gustafson, Wilbur E.; Chase, Walter M.; Lievens, James L.; and Camphell, James D., to United States of America, Navy. Radio receiver antenna system. 3,454,949, 7-8-69, Cl. 343-745.
Gustafsson, Berth Ulrik, to AB Kalle-Regulatorer. Gear pump. 3,435,773, 4-1-69, Cl. 103-126.
Gustafsson, Berth Ulrik, to Aktiebolaget Kalle-Regulatorer. Viscosity or consistency meter. 3,455,145, 7-15-69, Cl. 73-59.
Gustafsson, Karl Paul: *See*—
Frisk, Knut Olov; and Gustafsson, Karl Paul,3,476,017.
Gustavson, Fredrik, to Aktiebolaget Peritus Enkoping. Contacts for the poles of electrical switchgear. 3,459,914, 8-5-69, Cl. 200-170.
Gustavson, Sterling T.: *See*—
Merenda, Carmine T.; Reich, Adolf F.; and Gustavson, Sterling T.,3,428,051.

Gustetic, Stanley J., to Euclid Crane and Hoist Company, The. Weighting apparatus. 3,441,099, 4-29-69, Cl. 177-151.
Gustetic, Stanley J.; Boytz, Charles B.; and Engel, Henry, to Euclid Crane and Hoist Company, The. Automatic locking mechanism for a rotary load carrier in a storage system. 3,420,389, 1-7-69, Cl. 214-16.4
Gustison, Robert A.; Gorczyca, Frank; and Cenerazzo, John A., to Kawecki Chemical Company. Method of beneficiating tantalum- and niobium-containing tin slags. 3,447,894, 6-3-69, Cl. 23-15.
Gustkey, John E., to Cogsdill Tool Products, Inc. Adjustable peening tool. 3,444,714, 5-20-69, Cl. 72-76.
Gut, Günther: *See*—
Guyer, August, Jr.; Guyer, Pio; and Gut, Gunther,3,423,466.
Gut, Marcel: *See*—
Loken, Bjarte; and Gut, Marcel,3,468,875.
Loken, Bjarte; and Gut, Marcel,3,480,621.
Gutberlet, Fritz: *See*—
Helmberger, Hermann; Dietz, Wolfgang; Gutberlet, Fritz; Hermann, Hans; and Wittmann, Hans, a/k/a Wittmann, Johan,3,421,054.
Gutcho, Sidney: *See*—
Laufer, Louis; and Gutcho, Sidney,3,459,637.
Gutenlag, Charles E.: *See*—
Martin, Robert L., 3,456,336.
Gutermann, Traugott: *See*—
Dombruch, Franz; Gutermann, Traugott; and Teske, Karl W. E.,3,484,044.
Gutermann, Traugott; and Maurer, Georg, to Messer Griesheim G.m.b.H. Gas torche with pressure responsive valve for conversion from internal to external mixing. 3,424,385, 1-28-69, Cl. 239-412.
Gutermuth, Paul. Dropped ceiling construction with condensate disposal means. 3,459,115, 8-5-69, Cl. 98-43.
Guth, Christian: *See*—
Hofmann, Peter; and Guth, Christian,3,449,160.
Guth, Christian, to Ciba Limited. Process for flame-proofing of cellulose-containing textiles. 3,421,923, 1-14-69, Cl. 117-62.2
Nachbur, Hermann; Berger, Alfred; Guth, Christian; and Maeder, Arthur,3,423,369.
Guth, Jean-Louis; and Wey, Raymond, to Commissariat a l'Energie Atomique. Processes for eliminating from a solution anions derived from hydracids and oxacids. 3,433,736, 3-18-69, Cl. 210-37.
Guth, Lauren W., to General Electric Company. Motorized pump mounting means for automatic dishwasher. 3,446,155, 5-27-69, Cl. 103-218.
Guth, Lauren W., to General Electric Company. Dishwashing machine. 3,465,762, 9-9-69, Cl. 134-58.
Guth, Lauren W., to General Electric Company. Door-operated rack extending and retracting means for a front-opening appliance cabinet. 3,466,105, 9-9-69, Cl. 312-274.
Guth, Lauren W., to General Electric Company. Door-operated rack extending and retracting means for a front-opening appliance cabinet. 3,466,108, 9-9-69, Cl. 312-274.
Guthke, Harald: *See*—
Beck, Fritz; Leitner, Hans; Wintersberger, Karl; and Guthke, Harald,3,477,923.
Guthke, Harald; Wintersberger, Karl; Beck, Fritz; Floss, Josef Georg; and Habermann, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrochemical hydrodimerization of aliphatic α,β-mono-olefinically unsaturated nitriles. 3,427,234, 2-11-69, Cl. 204-73.
Guthrie, David B.: *See*—
Stromberg, Verner L.; and Guthrie, David B.,3,486,866.
Guthrie, David G., to Saunders Roe & Nuclear Enterprises Limited. Coating of the surfaces of light transparent materials associated with light sources. 3,429,730, 2-25-69, Cl. 117-18.
Guthrie, Donald A., to Esso Research and Engineering Company. Isomerization of difluoramino- olefins with ionizing radiation. 3,425,922, 2-4-69, Cl. 204-158.
Guthrie, James L.: *See*—
Isaacs, Philip K.; and Guthrie, James L.,3,483,014.
Kehr, Clifton L.; and Guthrie, James L.,3,478,004.
Guthrie, James M.: *See*—
Augustine, Alfred; and Guthrie, James M.,3,437,326.
Guthrie, John W., to Lockwood Technical, Inc. Pneumatically controlled applicator system for adhesive and the like. 3,420,208, 1-7-69, Cl. 118-2.
Guthrie, Joseph E.; and Merrin, Seymour, to Sperry Rand Corporation. Photosensitive method for depositing thin uniform glass films on substrates. 3,474,718, 10-28-69, Cl. 96-34.
Guthrie, Kenneth R., to AAA Pipe Cleaning Corporation. Hose winding reel. 3,476,139, 11-4-69, Cl. 137-355.16
Gutierrez, Julian: *See*—
Bue, Richard C.; and Gutierrez, Julian,3,477,760.
Gutierrez, Julian. Self-actuating record holding apparatus. 3,446,360, 5-27-69, Cl. 211-40.
Gutknecht, Leroy H., to Lovell Manufacturing Company. Power pressure setting wringer. 3,443,408, 5-13-69, Cl. 68-253.
Gutleber, Frank S., to International Telephone and Telegraph Corporation. High resolution frequency spectrum analyzer. 3,422,348, 1-14-69, Cl. 324-77.
Gutleber, Frank S., to International Telephone and Telegraph Corporation. Code generator to produce permutations of code mates. 3,461,451, 8-12-69, Cl. 340-348.
Gutleber, Frank S., to International Telephone and Telegraph Corporation. Pseudo-orthogonal pulse code system. 3,484,554, 12-16-69, Cl. 179-15.
Gutleber, Frank S.; and Krause, Irving A., to International Telephone and Telegraph Corporation. Synchronizing system having locally generated signals and PSK information signals. 3,472,960, 10-14-69, Cl. 178-67.
Gutleber, Frank S.; Levine, Elihu; Bogert, Warren D.; Silverstein, Samuel; and Altman, Harry, to United States of America, Air Force. Cross correlating system for PCM communications. 3,483,549, 12-9-69, Cl. 340-347.
Gutlhuber, Johann: *See*—
Jirka, Karl; and Gutlhuber, Johann,3,437,297.
Gutman, Arnold D.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arneklev, Duane R., to Stauffer Chemical Company. [Lower alkyl substituted dinitrophenoxy] ketones. 3,467,714, 9-16-69, Cl. 260-590.
Gutman, Arnold D.; and Orr, Jack P., to Stauffer Chemical Company. Method of killing pests by application of an O,O, diloweralkyl phosphorodithioyl methyl- substituted mercaptoacetate. 3,433,870, 3-18-69, Cl. 424-216.
Gutmann, Hellmut: *See*—
Ospelt, Gustav; Vogt, Alfred; and Gutmann, Hellmut,3,460,519.
Gutmann, Hugo; Jaunin, Roland; Kaiser, Ado; and Zeller, Paul, to Hoffmann-La Roche, Inc. Carbonyl containing 1-methyl-2-benzylhydrazine compounds. 3,459,799, 8-5-69, Cl. 260-558.
Gutmann, Siegfried. Carrier for concrete castings. 3,453,796, 7-8-69, Cl. 52-704.
Gutmann, William R.; and Wright, James H., to Catalysts and Chemicals, Inc. Method of removing sulfur compounds from gases. 3,441,370, 4-29-69, Cl. 23-2.
Gutnikov, Eduard Julievich; Melnikov, Oleg Nikolaevich; Matjunin, German Borisovich; and Alterman, Iosif Ilich. Plunger travel speed governing devices to be employed when pressing on hydraulic presses. 3,440,932, 4-29-69, Cl. 91-435.
Gutridge, Jack E., to Pullman Incorporated. Refrigerated container support and generator housings for flat deck railway cars. 3,429,281, 2-25-69, Cl. 105-366.
Gutridge, Jack E., to Pullman Incorporated. Mounting arrangement for demountable containers on railway cars. 3,444,824, 5-20-69, Cl. 105-366.
Gutsche, Henry W.; Harris, Darrel M.; and Walsh, Robert J., to Monsanto Company. Retaining trays for semiconductor wafers and the like. 3,469,686, 9-30-69, Cl. 206-65.
Gutsche, Klaus: *See*—
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois,3,431,263.
Gutsche, Walter: *See*—
Zirngibl, Hans; and Gutsche, Walter,3,481,703.
Zirngibl, Hans; Gutsche, Walter; and Brandle, Karl,3,486,913.
Gutshall, Charles Edward, to Illinois Tool Works Inc. Extruding screw. 3,438,299, 4-15-69, Cl. 85-41.
Gutshall, Charles E., to Illinois Tool Works Inc. Socket-type fastener. 3,426,385, 2-11-69, Cl. 16-125.
Guttag, Alvin, to Weston Chemical Corporation. Carboxylated hydroxy phosphites. 3,437,720, 4-8-69, Cl. 260-927.
Guttag, Alvin, to Weston Chemical Corporation. Insulated alkali metal conductor. 3,463,872, 8-26-69, Cl. 174-120.
Gutterman, Kirill Davidovich; Prozorova, Nina Dmitrievna; Svenchansky, Alexandr Danilovich; and Smelyansky, Matvei Yakovlevich. Variable inductive current regulator. 3,473,105, 10-14-69, Cl. 323-6.
Gutting, Robert D., to Hon Industries, Inc. Power operated file cabinet. 3,442,564, 5-6-69, Cl. 312-268.
Guttmann, Andrew T.: *See*—
Jungermann, Eric; and Guttmann, Andrew T.,3,485,760.
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M., to Armour and Company. Aminophosphinic acids and salts useful as bacteriostats. 3,424,788, 1-28-69, Cl. 260-502.5
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M., to Armour and Company. Bis-aminophophinic acids useful as antibacterial agents. 3,432,547, 3-11-69, Cl. 260-502.5
Guttmann, Wolf. Electronic component package and cover. 3,429,980, 2-25-69, Cl. 174-52.
Guttridge, George H. G.: *See*—
Douglas, Clifford G.; and Guttridge, George H. G.,3,468,143.
Gutweiler, Klemens: *See*—
Weissermel, Klaus; Hafner, Karl-Heinz; Gutweiler, Klemens; and Fischer, Edgar,3,442,865.
Gutwin, Otto A., to International Business Machines Corporation. Eccentric magnetic core. 3,451,047, 6-17-69, Cl. 340-174.
Gutwirth, Karel: *See*—
Kaspar, Jan; Soudek, Josef; and Gutwirth, Karel,3,437,208.
Gutzeit, Carlos L., to Hitco. Carbonization method for cellulosic fibers. 3,479,150, 11-18-69, Cl. 23-209.1
Gutzeit, Carlos L., to Hitco. Method of carbonizing fibrous cellulosic materials. 3,479,151, 11-18-69, Cl. 23-209.5

Gutzmer, Alfred N.; and Willett, David A., to Sybron Corporation. Power supply system for procdss control instrumentation. 3,483,393, 12-9-69, Cl. 307-66.
Gutzwiller, Frank W., to General Electric Company. Control circuit for controlling the power to an inductive load from a polyphase source. 3,437,911, 4-8-69, Cl. 323-22.
Gutzwiller, Frank W., to General Electric Company. Integrated semiconductor rectifier assembly. 3,463,970, 8-26-69, Cl. 317-234.
Guy, Glen E.: *See—*
Betz, Jack D.; and Guy, Glen E.,3,439,329.
Guy, Hubert G.: *See—*
Guziak, Leonard F.; Mengon, Albert C.; and Guy, Hubert G.,3,487,032.
Guy, Jean-Baptiste: *See—*
Szereszewski, Pinchas Paul; and Guy, Jean-Baptiste,3,442,259.
Guy, William R., to Kelvinator, Inc., mesne. Range oven door latching device. 3,462,584, 8-19-69, Cl. 219-412.
Guydos, Gilbert C. Rod and reel holder. 3,443,335, 5-13-69, Cl. 43-22.
Guye, Raymond: *See—*
Chauvy, Daniel; Guye, Raymond; and Hubner, Kurt,3,427,479.
Guye-Vuilleme, Jean-Frederic, to Ciba Limited. Water-soluble anthraquinone dyestuffs. 3,455,958, 7-15-69, Cl. 260-345.2
Guye-Vuilleme, Jean-Frederic, to Ciba Limited. N-Acyloxyalkyl derivatives of 2-aryl-4,8-diamino-1, 5-dihydroxyanthraquinones. 3,484,460, 12-16-69, Cl. 260-376.
Guyer, August: *See—*
Guyer, August, Jr.; Guyer, Pio; and Gut, Gunther, 3,423,466.
Guyer, August, Jr.; Guyer, Pio; and Gut, Gunther, to Guyer, August. Process for the production of benzaldehyde. 3,423,466, 1-21-69, Cl. 260-599.
Guyer, Edwin M., to Corning Glass Works. Electric flame generator. 3,445,616, 5-20-69, Cl. 219-10.51
Guyer, Pio: *See—*
Guyer, August, Jr.; Guyer, Pio; and Gut, Gunther,3,423,466.
Guynes, William L., 38% to Werner, Albert F. 12 1/2% to Sims, Nancy M., and 12 1/2% to Taupier, Joan. Apparatus for holding film. 3,442,195, 5-6-69, Cl. 95-89.
Guyon, Andre J.; Jones, Derek; and Snyder, Michael D., to Singer-General Precision, Inc. Method for fabricating hydrostatic fluid bearings. 3,439,960, 4-22-69, Cl. 308-5.
Guyot, Lucien Francis: *See—*
Driard, Bertrand M.; and Guyot, Lucien Francis,3,439,222.
Guyton, Arthur Clifton. Suspended membrane differential oxygen analyzer. 3,487,297, 12-30-69, Cl. 324-36.
Guyton, James H.; Lutz, Phillip A.; and Stedry, Edward G., to General Motors Corporation. Combination tuner for short wave two-way radio and broadcast receiver. 3,447,088, 5-27-69, Cl. 325-458.
Guzak, John, Jr., to SCM Corporation. Data signal generating apparatus. 3,466,647, 9-9-69, Cl. 340-365.
Guzewicz, Edmund A., to Chandler Evans Inc. Rocket nozzle. 3,427,698, 2-18-69, Cl. 29-157.
Guziak, Leonard F., to Koppers Company, Inc. Paper coating latex prepared in the presence of an alkyl phenyl polyphosphate ester salt surfactant. 3,484,395, 12-16-69, Cl. 260-8.
Guziak, Leonard F.; Mengon, Albert C.; and Guy, Hubert G., to Sinclair-Koppers Company. Process comprising low amounts of electrolytes and surfactants for preparing a tetropolymer latex. 3,487,032, 12-30-69, Cl. 260-8.
Guzick, Norman D.; and McCarthy, John H., to Ethyl Corporation. Alcohol production. 3,475,501, 10-28-69, Cl. 260-632.
Guzzi, Umberto: *See—*
de Ruggeri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,481,924.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,458,502.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,484,435.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto,3,485,826.
de Ruggieri, Pietro; Gondolfi, Carmelo; and Guzzi, Umberto,3,449,327.
Gvozdjak, John, to General Electric Company. Electric heating oven with heat circulation means. 3,458,686, 7-29-69, Cl. 219-400.
GW Sprinkler A/S (GW Ventilation A/S): *See—*
Kjaergaard, Knud, 3,451,482.
Gwaltney Incorporated: *See—*
Sumption, Richard F., 3,462,793.
Sumption, Richard F., 3,480,449.
Gwidt, Steve J. Apparatus for injecting fresh air into outboard motor underwater exhaust. 3,465,706, 9-9-69, Cl. 115-17.
Gwillim, David T.: *See—*
Haddon, Alistair Peter William; Gwillim, David T.; and Wood,Thomas Edward,3,420,425.
Gwillim, David Thomas; and Freedman, Arye Leib, to Plessey Company Limited, The. Self-clocking data recording transmission system. 3,487,389, 12-30-69, Cl. 340-174.1
Gwin, Franklin P.: *See—*
Hansen, Paul Edward; Crawford, Ray H.; and Gwin, Franklin P.,3,475,022.
Gwinn, J. S.; and Christensen, Don C., to Phillips Petroleum company. Apparatus for extruding thermoplastic material. 3,486,193, 12-30-69, Cl. 18-12.
Gwinner, Dietrich: *See—*
Reisacher, Josef; and Gwinner, Dietrich,3,473,409.
Gwyn, Childress B., Jr., to Talon, Inc. Apparatus for forming composite electrical contact using a linearly moving cutter bar. 3,460,218, 8-12-69, Cl. 29-34.
Gwynn, Bernard H.: *See—*
Fernald, Herbert B.; Gwynn, Bernard H.; and Kresge, Alfred N.,3,482,000.
Gwynn, John C.: *See—*
Mitchell, Reid L.; Murphy, Charles F.; and Gwynn, John C.,3,424,744.
Gwynn, Ross M.; and Themy, Tim. Laminated metal electrodes and method for producing the same. 3,443,055, 5-6-69, Cl. 219-83.
Gwynn, Ross M.; and Themy, Tim. Electrolytic cell. 3,479,275, 11-18-69, Cl. 204-275.
Gwynne, Thomas, to BPB Industries, Limited. Ceiling suspension system with tile- penetrating resilient clip. 3,422,590, 1-21-69, Cl. 52-496.
Gyarmathy, Kenneth W.; and Bouchal, Alexander W., to Colgate-Palmolive Company. Dentifrices. 3,431,339, 3-4-69, Cl. 424-52.
Gyde, Donald G.; Meindl, Howard R.; and Varani, Frederick T., to General Mills, Inc. Low impact agglomerator and method. 3,463,098, 8-26-69, Cl. 107-54.
Gyongyos, Ivan: *See—*
Altenpohl, Dietrich; and Gyongyos, Ivan,3,426,836.
Gyongyos, Ivan, to Swiss Aluminium Ltd. Continuous casting machine of the rotatable wheel type. 3,431,971, 3-11-69, Cl. 164-278.
Gyongyos, Ivan; and Kotthaus, Helmut, to Swiss Aluminium Ltd. Continuous casting method using a rotating wheel. 3,428,111, 2-18-69, Cl. 164-87.
Gyongyosi, Laszlo, to Ingersoll-Rand Company. Drill rod handling tool. 3,447,829, 6-3-69, Cl. 294-99.
Gyongyosi, Laszlo, to Ingersoll-Rand Company. Feed apparatus for rock drills. 3,480,091, 11-25-69, Cl. 173-160.
Gyorgak, Charles A.; and Hoover, Robert J., to United States of America, National Aeronautics and Space Administration. Extrusion die for refractory metals. 3,469,436, 9-30-69, Cl. 72-467.
Gyorgy, Ernst M.; Le Craw, Roy Conway; and Van Uitert, Le Grand G., to Bell Telephone Laboratories, Incorporated. Elastic wave elements. 3,428,144, 2-18-69, Cl. 181-0.5
Gyory, Emeric J., to Borg-Warner Corporation. Mechanical face seal. 3,452,994, 7-1-69, Cl. 277-42.
Gyro-Tech Door Company: *See—*
Catlett, John C.; and Gilson, James R., 3,425,161.
Catlett, John C.; and Gilson, James R., 3,457,674.
Gyromat Corporation, The: *See—*
Wiggins, Richard F., 3,424,125.
Wiggins, Richard F., 3,458,133.
Gyugyi, Laszlo, to Westinghouse Electric Corporation. Firing circuit for solid state controllable valves in high di/dt applications. 3,448,300, 6-3-69, Cl. 307-305.
Gyugyi, Laszlo, to Westinghouse Electric Corporation. Firing circuit for semiconductive controlled rectifiers. 3,469,170, 9-23-69, Cl. 321-5.
Gyugyi, Laszlo; and Pelly, Brian R., to Westinghouse Electric Corporation. Static frequency converter with novel voltage control. 3,470,447, 9-30-69, Cl. 321-61.
Gyugyi, Laszlo: *See—*
Schlabach, Leland A.; and Gyugyi, Laszlo,3,423,662.
Schlabach, Leland A.; and Gyugyi, Laszlo,3,444,451.
H & A Supply Company Limited: *See—*
Fraleigh, William P.; and Melanson, Alcide, 3,468,064.
H & H Engineering Div., Baker Manufacturing Co.: *See—*
Kilbourn, Eugene Le Roy; and Barker, James M., 3,425,358.
H & H Plastics Mfg. Co.: *See—*
Hummel, Raymond J.; and Ruhl, Horst, 3,431,561.
H & R Development Company, Inc.: *See—*
Ryan, John J., 3,448,620.
Ryan, John J., 3,477,464.
H-M Industries, Inc.: *See—*
Hoos, Pieter F., 3,454,049.
Haack, Clarence W., to Halaco Engineering Co. Metal treatment furnace. 3,468,524, 9-23-69, Cl. 266-33.
Haack, Erich: *See—*
Gal, Rudi; Haack, Erich; Stach, Kurt; Schaumann, Wolfgang; and Ritter, Klaus,3,462,432.
Haack, Erich; Peschke, Wilhelm; Stach, Kurt; Schmidt, Felix H.; and Weber, Helmut. Boehringer, C. F., & Soehne G.m.b.H. Benzenesulfonyl-ureas. 3,439,033, 4-15-69, Cl. 260-553.
Haack, Erich; Rey, Hans-Georg; and Rieckmann, Peter, to Boehringer, C. F., & Soehne G.m.b.H. Chemical analysis test strips. 3,443,903, 5-13-69, Cl. 23-230.

Haacke, Gottfried; and Beegle, Lindley Clair, to American Cyanamid Company. Novel single phase quaternary magnetic compounds. 3,448,053, 6-3-69, Cl. 252-62.51

Haaf, William R.: *See—*
Holoch, Klaus E.; Raynor, David F.; and Haaf, William R.,3,483,271.

Haag, Albrecht, to Kienzle Uhrenfabriken G.m.b.H. Pointer-work drive in clocks having directly driven oscillator systems. 3,422,618, 1-21-69, Cl. 58-28.

Haag, Albrecht, to Kienzle Uhrenfabriken G.m.b.H. Clockwork with torsional or flexible oscillator. 3,433,009, 3-18-69, Cl. 58-23.

Haag, Albrecht, to Kienzle Uhrenfabriken G.m.b.H. Mount for mass body and pawl in electrically wound clockwork. 3,447,312, 6-3-69, Cl. 58-40.

Haag, Anthony L.: *See—*
Dallman, Robert J.; and Haag, Anthony L.,3,461,994.

Haag, Arthur V.: *See—*
Embree, Milton L.; Haag, Arthur V.; and Vedder, Dietrih,3,421,030.

Haag, Arthur V.; and Kaenel, Reginald A., to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation device. 3,453,606, 7-1-69, Cl. 340-174.

Haag, Arthur V.; and Vedder, Dietrich, to Bell Telephone Laboratories, Incorporated. Selection circuit for simultaneously enabled negative resistance devices. 3,422,399, 1-14-69, Cl. 340-147.

Haag, Franz, to Junkers & Co., GmbH. Pulse jet burner. 3,469,929, 9-30-69, Cl. 431-1.

Haag, Franz; and Huber, Ludwig, to Junkers & Co., GmbH. Resonant pulse jet burner. 3,447,878, 6-3-69, Cl. 431-1.

Haag-Streit A.G.: *See—*
Papritz, Hans, 3,463,579.

Haagen-Smit, Jan W., to Beckman Instruments, Inc. Mercury pool electrode. 3,421,989, 1-14-69, Cl. 204-195.

Haagen, Thomas E. Diesel engine poppet valve. 3,426,741, 2-11-69, Cl. 123-188.

Haaijman, Pieter Willem; Wijnen, Marinus Dirk; and Hengst, Johannes Hubertus Theodorus, to North American Philips Company, Inc. Primary cell. 3,434,886, 3-25-69, Cl. 136-93.

Haak, Willard J.: *See—*
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.

Haake, Claus H., to Westinghouse Electric Corporation. Laser modulation sytems. 3,449,692, 6-10-69, Cl. 331-94.5

Haake, Heinz: *See—*
Horn, Lutz; Phillip, Fritz; and Haake, Heinz,3,442,717.

Haake, Willi: *See—*
Gude, Armin; and Haake, Willi,3,437,627.

Haaker, Lester W.: *See—*
Eisert, Gerald A.; and Häaker, Lester W.,3,433,370.
Jelatis, Demetrius G.; Haaker, Lester W.; and Eisert, Gerald A.,3,474,250.
Jennrich, Carleton E.; and Haaker, Lester W.,3,482,100.
Jennrich, Carleton E.; Haaker, Lester W.; and Jelatis, Demetrius G.,3,429,457.

Haaker, Lester W., to Central Research Laboratories, Inc. Extended reach sealed manipulator. 3,425,569, 2-4-69, Cl. 214-1.

Haakon, C. F. Oyen; and Oyen, Haakon C. F., to Dorr-Oliver Incorporated. Washing arrangement for screen centrifuge. 3,438,501, 4-15-69, Cl. 210-213.

Haapala, Ray. Cake decorator's gauge. 3,477,135, 11-11-69, Cl. 33-174.

Haardt, Udo: *See—*
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo,3,429,836.
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo,3,434,980.

Haarer, Erich: *See—*
Adam, Karl; and Haarer, Erich,3,475,344.
Adam, Karl; and Haarer, Erich,3,479,411.
Adam, Karl; and Haarer, Erich,3,483,253.
Adam, Karl; Haarer, Erich; and Dorfner, Konrad,3,478,112.
Adam, Karl; Schulz, Alfred; Haarer, Erich; and Winderl, Siegfried,3,476,793.

Haarmann, Howard J. Educational apparatus. 3,452,450, 7-1-69, Cl. 35-9.

Haas, Eberhard, to Lapple, August, G. m. b.H., & Co. Device for machining irregularly curved surfaces. 3,466,807, 9-16-69, Cl. 51-60.

Haas, Edgar; and Kottsieper, Edward, to Schwabe, Herman, Inc. Feed system for die cutting press. 3,428,232, 2-18-69, Cl. 226-115.

Haas, Edgar; and Kottsieper, Edward, to Schwabe, Herman, Inc. Press with retractable platen. 3,468,204, 9-23-69, Cl. 83-533.

Haas, Edgar; and Kottsieper, Edward, to Schwabe, Herman, Inc. Large area die cutting press. 3,472,109, 10-14-69, Cl. 83-540.

Haas, Friedrich; Vohwinkel, Kurt; Nutzel, Karl; and Sutter, Hubert, to Farbenfabriken Bayer Aktiengesellschaft. Cis-polybutadiene stabilized with an expoxide. 3,457,218, 7-22-69, Cl. 260-45.8

Haas, Hans, to Strabag Bau-A.G. Process and apparatus for the determination of particle size distribution. 3,427,886, 2-18-69, Cl. 73-432.

Haas, Hans: *See—*
Warncke, Ernst; and Haas, Hans,3,457,953.
Warncke, Ernst; and Haas, Hans,3,483,887.

Haas, Helmut, to Loewe Opta AG. Rotating head wheel with motor on common shaft. 3,420,964, 1-7-69, Cl. 179-100.2

Haas, Helmut, to Loewe Opta G.m.b.H. Magnetic recording device for recording and reproducing of high-frequency signals. 3,453,381, 7-1-69, Cl. 178-6.6

Haas, Herbert: *See—*
Munk, Edmund; Haas, Herbert; and Weinberg, Gert,3,430,806.

Haas, Howard C., to Polaroid Corporation. Photographic products and processes. 3,433,633, 3-18-69, Cl. 96-3.

Haas, Howard C., to Polaroid Corporation. Solvent extraction process. 3,451,926, 6-24-69, Cl. 210-59.

Haas, Howard C., to Polaroid Corporation. Photographic products and processes. 3,452,182, 6-24-69, Cl. 96-35.1

Haas, Howard C., to Polaroid Corporation. Novel photographic product, process and composition. 3,459,580, 8-5-69, Cl. 117-34.

Haas, Howard C., to Polaroid Corporation. Novel photographic products and processes. 3,460,941, 8-12-69, Cl. 96-29.

Haas, Howard C.; and Schuler, Norman W., to Polaroid Corporation. Novel halogen-containing monomers and polymers. 3,444,150, 5-13-69, Cl. 260-85.7

Haas, Howard C.; and Taylor, Lloyd D., to Polaroid Corporation. Microscopic capsules and process for their preparation. 3,427,250, 2-11-69, Cl. 252-316.

Haas, John I., Inc.: *See—*
Rigby, Francis L., 3,478,930.

Haas, Kenneth C.: *See—*
Spinrad, Malcom; Haas, Kenneth C.; and Hoverter, Bryce E.,3,477,001.

Haas, Peter, to Sindaco S.A. Timepiece case. 3,431,722, 3-11-69, Cl. 58-152.

Haas, Robert G.; and Ruhl, Edward A., to Ford Motor Company. Bulb socket with light filter. 3,473,015, 10-14-69, Cl. 240-46.59

Haas, Wendall M. B. Automobile parking system. 3,451,564, 6-24-69, Cl. 214-16.1

Haase, Donald J., to Continental Oil Company. Chromatography apparatus. 3,422,604, 1-21-69, Cl. 55-386.

Haase, Donald J., to Continental Oil Company. Chromatography system. 3,422,665, 1-21-69, Cl. 73-23.1

Haase, Frederick R.; and Noguera, Julio T., to Dow Corning Corporation. Middle ear prosthesis. 3,473,170, 10-21-69, Cl. 3-1.

Haase, Harold A. Work handling and transfer apparatus. 3,437,223, 4-8-69, Cl. 214-730.

Haase, Kurt H., to United States of America, Air Force. Polynomial root finder. 3,431,407, 3-4-69, Cl. 235-180.

Haase, Kurt H., to United States of America, Air Force. Resistively terminated single tee and pi one port network having a prescribed positive real bi-order-n immittance and utilizing a negative immittance. 3,479,618, 11-18-69, Cl. 333-24.

Haase, Lothar; and Pochert, Rudolf, to Kjellberg Elektroden & Maschinen GmbH. Plasma burner. 3,459,376, 8-5-69, Cl. 239-132.3

Haase, Victor H., to Evans, Robert G., Company. Pivotal mounting for the cutting head of a masonry or metal saw. 3,445,968, 5-27-69, Cl. 51-99.

Haase, Victor H.; and Harclerode, John R., to Evans, Robert G., Company. Road grooving apparatus. 3,464,737, 9-2-69, Cl. 299-39.

Haavik, Niles Johan; and Nyberg, Gunnar, to Elektrokemisk A/S. Method for producing electrode paste. 3,437,733, 4-8-69, Cl. 13-9.

Haban, Joseph. Snow throwers. 3,429,061, 2-25-69, Cl. 37-43.

Habdank-Dunikowski, Jerzy A., to Sperry Rand Corporation. Hydrostatic transmission. 3,449,912, 6-17-69, Cl. 60-53.

Habdas, Edward P., to Calumet & Hecla, Inc. Finned tube produced from continuous strip. 3,455,379, 7-15-69, Cl. 165-184.

Habelt, Gerhard: *See—*
Louzil, Friedrich; Appel, Arne; and Habelt, Gerhard,3,445,613.

Habendorff, Richard; and Fischer, Willi, to Leybold-Heraeus-Verwaltung G.m.b.H. Apparatus for vacuum and short-path distillation. 3,434,935, 3-25-69, Cl. 202-187.

Haber, Christian. Device for serial inoculations and for the execution of successive serological and bacteriological tests. 3,472,226, 10-14-69, Cl. 128-218.

Haberecht, Rolf Reinhold, to Texas Instruments Incorporated. Circuit board. 3,431,350, 3-4-69, Cl. 174-68.5

Haberecht, Rolf R., to Texas Instruments, Incorporated. Plastic bodies having regions of altered chemical structure and method of making same. 3,436,468, 4-1-69, Cl. 174-68.5

Haberecht, Rolf R., to Texas Instruments, Incorporated. Integrated circuits and fabrication thereof. 3,458,368, 7-29-69, Cl. 148-175.

Haberecht, Rolf R.; Bracken, Ronald C.; and McCrary, James W., to Texas Instruments, Incorporated. Suction box cover. 3,436,306, 4-1-69, Cl. 162-374.

Haberhauer, Karl; and Konigs, Heinz, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Device for turning-off the vertical movement of the printing bar of grid during the return movement of a double-stroke jacquard machine. 3,450,168, 6-17-69, Cl. 139-59.
Haberich, Wilhelm; and Felber, Erhard Hermann Gustav, to Braunschweigische Mashinenbauanstalt. Continuous treatment of liquids, such as sugar juice, with an adsorbent. 3,462,299, 8-19-69, Cl. 127-9.
Haberich, Wilhelm: *See—*
von der Linde, Hans-Jurgen; and Haberich, Wilhelm,3,481,783.
Haberkorn, Erich; and Rikus, Hans, to Bolkow Gesellschaft mit beschrankter Haftung. VTOL aircraft. 3,486,716, 12-30-69, Cl. 244-12.
Haberkorn, Joseph A. Erich, to Bolkow Gesellschaft mit beschrankter Haftung. Apparatus for positioning of the thrust engines of a vertical take-off and landing aircraft. 3,460,783, 8-12-69, Cl. 244-56.
Haberkorn, Joseph A. Erich; and Lobbecke, Wilhelm F., to Entwicklungsring Sud G.m.b.H. Apparatus for directing fluid flow. 3,451,624, 6-24-69, Cl. 239-265.33
Haberkorn, Joseph A. Erich: *See—*
Pabst, Otto Ernst; and Haberkorn, Joseph A. Erich,3,451,648.
Haberle, Heinz, to International Standard Electric Corporation. Pulse sequence detector employing a shift register controlling a reversible counter. 3,453,551, 7-1-69, Cl. 328-119.
Haberman, Robert W., to Lionel-Pacific, Inc. Hydraulic actuator with proximity sensor of locked condition. 3,453,937, 7-8-69, Cl. 92-5.
Habermann, Heinz. Method of making refractory bodies formed with a multiplicity of closely spaced long and narrow passages therethrough. 3,437,723, 4-8-69, Cl. 264-69.
Habermann, Wolfgang: *See—*
Guthke, Harald; Wintersberger, Karl; Beck, Fritz; Floss, Josef Georg; and Habermann, Wolfgang,3,427,234.
Habermehl, Clark L.; and Newell, James T., to United States of America, Navy, mesne. Electronic pressure sensitive semiconductor device. 3,470,392, 9-30-69, Cl. 307-308.
Haberstroh, Albert: *See—*
Bickford, John H.; Haberstroh, Albert; and Donovan, Lawrence J.,3,469,741.
Haberstump, Alfred H. Fluid controlled air actuated sequence device. 3,428,085, 2-18-69, Cl. 137-624.2
Haberthur, Kurt: *See—*
Gehring, Albert; Schneller, Heinz; Fueg, Heinz; Haberthur, Kurt; and Matsuya, Koichi,3,484,214.
Habgood, Gordon A.: *See—*
Cock, Donald J.; and Habgood, Gordon A.,3,435,691.
Habgood, Robert P., Jr.: *See—*
Inauzzi, Joseph; and Habgood, Robert P., Jr.,3,473,204.
Habian, Albert, to Societe Orega Electronique & Mecanique. Waveband switch for television receivers. 3,482,178, 12-2-69, Cl. 330-30.
Habib, David P.; Allard, Robert S.; and Zabik, Eugene J., to Tecnifax Corporation. Negative-working diazosulfonate reproduction process. 3,479,183, 11-18-69, Cl. 96-49.
Habib, Emile E.: *See—*
Bolinger, Edgar Dare; and Habib, Emile E.,3,427,272.
Gagarine, Dmitry M.; Habib, Emile E.; and La Fleur, Kermit S.,3,477,805.
Habib, Robert. Machine for grinding tools with a helical cut. 3,431,682, 3-11-69, Cl. 51-123.
Habibi, Mohammad Ali, to Thompson-Hayward Chemical Company. Synthesis of dialkyl phenols. 3,449,444, 6-10-69, Cl. 260-624.
Habibi, Mohammad Ali, to Thompson-Hayward Chemical Company. Synthesis of aromatic nitriles by nitrilizing halogenated intermediates. 3,475,480, 10-28-69, Cl. 260-465.
Habicht, Ernst; and Zubiani, Ruggero, to Cilag-Chemie Limited. Pyrimidine sulfones. 3,435,035, 3-25-69, Cl. 260-251.
Habicht, Manfred: *See—*
Gerlach, Albrecht; Habicht, Manfred; and Richter, Edgar,3,465,738.
Habig, Wydell W.: *See—*
Van Horssen, Arden D.; Habig, Wydell W.; Shortell, Raymond E.; and Smiley, George C.,3,480,722.
Hable, William L.: *See—*
Hardison, Leslie C.; and Hable, William L.,3,484,189.
Habra, Joseph H., to United States of America, National Aeronautics and Space Administration, under provisions of 42 U.S.C. 2457 (d). Multiple varactor frequency doubler. 3,434,037, 3-18-69, Cl. 321-69.
Habra-Werk Wilh. F. Ott: *See—*
Reil, Wilhelm; and Schwarzwalder, Werner, 3,438,176.
Haburn, Joseph: *See—*
Edwards, Herbert C.; Lytle, Ronald Lee; and Haburn, Joseph,3,483,604.
Haby, George H.: *See—*
Kingsbury, Guy W.; and Haby, George H.,3,457,605.
Hach, Frank, Jr., to Harris Calorific Company, The. Cutting torch tip assembly. 3,433,418, 3-18-69, Cl. 239-422.
Hach, Vladimir: *See—*
Hjort, Jorgen; and Hach, Vladimir,3,485,855.
Hacha, Thomas H.: *See—*
Huebscher, Richard G.; and Hacha, Thomas H.,3,455,743.
Hachiya, Isao: *See—*
Tahara, Tadasu; Takubo, Tadashi; and Hachiya, Isao,3,475,473.
Hachiya, Kikuo: *See—*
Anno, Takamitsu; Masuda, Kohei; Hachiya, Kikuo; and Hattori, Takeo,3,451,884.
Hachler, Wesley R.: *See—*
Allen, John W.; and Hachler, Wesley R.,3,459,026.
Hacht, Werner V.: *See—*
Esche, Rolf; and Hacht, Werner V.,3,431,382.
Hachtel, Guenter, to General Motors Corporation. Antipick odometer. 3,482,773, 12-9-69, Cl. 235-95.
Hachtel, Wilhelm. Closure member for the insertion aperture of curtain rails. 3,471,891, 10-14-69, Cl. 16-87.4
Hachtel, Wilhelm. Arrangement for forming folds in drapes, curtains and the like. 3,484,892, 12-23-69, Cl. 16-87.2
Hack, Arthur W.; and Konigsdorf, Wolfgang, to Corn Products Company. Production of seasonings with a flavor similar to meat extract. 3,480,447, 11-25-69, Cl. 99-140.
Hack, Heinrich, to Schenck, Carl, Maschinenfabrik GmbH. Method for balancing rotating pistons and other rotors of the planetary motion type. 3,457,623, 7-29-69, Cl. 29-407.
Hack, Helmuth: *See—*
Eue, Ludwig; Hack, Helmuth; Westphal, Kurt; and Wegler, Richard,3,472,646.
Muller, Gerhard; Eue, Ludwig; and Hack, Helmuth,3,454,393.
Schrader, Gerhard; Eue, Ludwig; and Hack, Helmuth,3,472,920.
Hack, Morton: *See—*
Hack, Nathan; and Hack, Morton,3,444,632.
Hack, Nathan; and Hack, Morton, to Ripple Sole Corporation. Resilient shoe sole. 3,444,632, 5-20-69, Cl. 36-32.
Hackenberg, Hubert: *See—*
Engelsmann, Dieter; and Hackenberg, Hubert,3,463,066.
Engelsmann, Dieter; Maas, Dieter; Bammesberger, Karl; and Hackenberg, Hubert,3,463,068.
Hackenberg, Hubert, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with a film take-up spool. 3,465,658, 9-9-69, Cl. 95-31.
Hackenberg, Walter: *See—*
Bessler, Alfons; and Hackenberg, Walter,3,446,918.
Siegel, Herbert; and Hackenberg, Walter,3,431,365.
Hackenberger, George I., Jr.: *See—*
Greenberg, Avrom; Brown, William H., Jr.; Packard, Clifford B.; and Hackenberger, George I., Jr.,3,444,569.
Hacker, Arden R.; and Kraft, Louis Seelbach, to Goodyear Tire & Rubber Company, The. Belt structure. 3,486,607, 12-30-69, Cl. 198-193.
Hacker, Francis E. Antifriction bearing assembly. 3,450,447, 6-17-69, Cl. 308-6.
Hacker, Frederick W.: *See—*
Florsheim, Leonard S., Jr.; and Hacker, Frederick W.,3,464,768.
Hacker, Kurt; Koehl, Erwin; and Weigele, Reinhold, to Fortuna-Werke Maschinenfabrik Aktiengesellschaft. Method for treating articles of leather. 3,461,473, 8-19-69, Cl. 12-146.
Hackerman, Norman: *See—*
Annand, Robert R.; and Hackerman, Norman,3,466,188.
Hackett, Clarence Bertram; Kelly, Patrick McAvoy; and MacGilchrist, John, to Imperial Chemical Industries Limited. Composite propellant compositions containing polysiloxanes with alkenyl groups. 3,453,156, 7-1-69, Cl. 149-19.
Hackett, John W.; and Gardner, Earl E., to Procter & Gamble Company, The. Apparatus for applying a lateral stripe of adhesive to the tail of a severed web. 3,476,079, 11-4-69, Cl. 118-40.
Hackett, Leslie Charles, to Accles & Pollock Limited. Billiard cues. 3,476,388, 11-4-69, Cl. 273-68.
Hackett, Norman H., 50% to Cochran, Roy J. In line booster. 3,466,870, 9-16-69, Cl. 60-54.5
Hackett, Robert J. Metal sampling device. 3,452,602, 7-1-69, Cl. 73-425.4
Hackett, Robert J. Metal sampling device. 3,457,790, 7-29-69, Cl. 73-425.4
Hackett, Theodore N. Material handling machine. 3,439,817, 4-22-69, Cl. 214-131.
Hackett, Theodore N., to Eimco Corporation, The. Swing stop and detent structure for shovel loaders. 3,452,889, 7-1-69, Cl. 214-132.
Hackl, Frank J.: *See—*
Crockett, Peter N.; Hackl, Frank J.; and Stafford, Thomas S.,3,465,132.
Hacklander, Egon H.: *See—*
Hirshfeld, Julian J.; Hacklander, Egon H.; and Angevine, William H., Jr.,3,420,616.
Hacklander, Hans W., to Singer Company, The. Mechanism for automatically adjusting the height of a top feed foot. 3,437,062, 4-8-69, Cl. 112-212.

Hacklander, Hans W., to Singer Company, The. Skip-stitch mechanism for household sewing machines. 3,465,698, 9-9-69, Cl. 112-158.
Hacklander, Hans W., to Singer Company, The. Backup stitch mechanisms. 3,467,040, 9-16-69, Cl. 112-210.
Hackler, Layton J.: *See*—
Gibson, Sidney H.; and Hackler, Layton J.,3,482,838.
Hackler, Walter A.: *See*—
York, Michael W.; and Hackler, Walter A.,3,443,430.
Hackley, Brennie E., Jr.: *See*—
Daniher, Francis A.; and Hackley, Brennie E., Jr.,3,467,659.
Hackley, James C. Magnetic roof top sign for cars. 3,440,748, 4-29-69, Cl. 40-129.
Hackley, Thomas H.; and Johnson, Nicky M., to Varian Associates. Electrographic plural channel recorder employing analog-to-digital converter means and multiplexed binary data outputs. 3,465,360, 9-2-69, Cl. 346-34.
Hackley, Thomas H.; and Lloyd, William A., to Varian Associates. Electrographic recorder employing means for sensing and recording indicia of off-scale input signals. 3,465,359, 9-2-69, Cl. 346-23.
Hackman, Arthur J., Jr. Precision surface abrading. 3,462,887, 8-26-69, Cl. 51-206.
Hackman, Edward Jerome; and Hollberg, Herbert John, to Du Pont de Nemours, E. I., and Company. Corona discharge device having a renewable target electrode. 3,453,428, 7-1-69, Cl. 250-49.5
Hackman, James R., to United States of America, Atomic Energy Commission. Liquid flow control device. 3,470,902, 10-7-69, Cl. 137-394.
Hackmann, Ernst-August, to Kalle Aktiengesellschaft. Light-sensitive color forming reproduction materials. 3,423,206, 1-21-69, Cl. 96-48.
Hackmann, Ernst-August; Munder, Johannes; and Moraw, Roland, to Kalle Aktiengesellschaft. Positive imaging photographic process. 3,446,621, 5-27-69, Cl. 96-49.
Hackmann, Johannes Th.; and Wood, Jack, to Shell Oil Company. Phosphinothioyloxy-1,3-isoindole diones. 3,449,361, 6-10-69, Cl. 260-326.
Hackmann, Johannes T., to Shell Oil Company. Organophosphorus insecticides. 3,432,599, 3-11-69, Cl. 424-203.
Hackney, Donald E.: *See*—
Camhi, Jack C.; Hackney, Donald E.; and Lewis, Thomas Glenn, Jr.,3,422,494.
Hackney, Stanley; and Davidson, Daniel Fraser, to United Kingdom Atomic Energy Authority. Apparatus for testing for nuclear fuel element sheathing failure. 3,431,167, 3-4-69, Cl. 176-19.
Hackstein, Karl-Gerhard; Pirk, Hans; and Maulbecker, Dieter Karl, to Nukem Nuklear-Chemie und -Metallurgie Gesellschaft mbH. Production of sinterable uranium dioxide. 3,477,830, 11-11-69, Cl. 23-355.
Hackworth, Andrew T. Pontoon boat construction. 3,426,716, 2-11-69, Cl. 114-61.
Hackworth, Jesse J., Sr.Holder for mason's line. 3,440,728, 4-29-69, Cl. 33-85.
Haemun, Hai: *See*—
Breuer, Klaus, 3,467,338.
Haeskaylo, Michael, to Melpar, Inc. Thin film ferrites. 3,441,429, 4-29-69, Cl. 117-62.
Haeskaylo, Michael: *See*—
Smith, Richard C.; and Haeskaylo, Michael,3,470,018.
Hada, Nobuhide: *See*—
Asai, Harmumi; Komai, Hisataka; and Hada, Nobuhide,3,468,856.
Hada, Takashi: *See*—
Yanabu, Osamu; Hada, Takashi; and Doi, Kazuyuki,3,479,162.
Hada, Yukihiro: *See*—
Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao,3,434,277.
Haddad, Andre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Nonpyrophoric Raney-type catalysts by treatment with an oxidizing agent. 3,425,959, 2-4-69, Cl. 252-459.
Haddad, Charles J.: *See*—
Holka, Thomas Carl; and Haddad, Charles J.,3,448,679.
Haddad, James H.; and Mitchell, John G., to Mobil Oil Corporation. Travelling grate shale retorting. 3,483,115, 12-9-69, Cl. 208-11.
Haddad, Theodore A.: *See*—
Clay, Burton R.; and Haddad, Theodore A.,3,454,900.
Hadden, David Rodney, Jr., to United States of America, Army. Data storage device using sonic wave propagation. 3,428,957, 2-18-69, Cl. 340-174.
Hadden, David Rodney, Jr., to United States of America, Army. Anisotropic magnetic memory having sonic wave transducer. 3,484,759, 12-16-69, Cl. 340-174.
Hadden, Edward H., to United Aircraft Corporation. Wash flow. 3,422,956, 1-21-69, Cl. 210-106.
Hadden, Edward Leal: *See*—
Herman, Robert Wilson; and Hadden, Edward Leal,3,466,589.
Hadden, Edward Leal, to AMP, Incorporated. Electrical connector having constrained spring means. 3,425,030, 1-28-69, Cl. 339-256.
Hadden, Edward Leal, to AMP Incorporated. Tool for making clip-type electrical connections. 3,479,719, 11-25-69, Cl. 29-203.
Hadden, George H., to Baldwin, D. H., Company. Bass register keying system. 3,470,306, 9-30-69, Cl. 84-1.19
Haddix, Allen R.: *See*—
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R.,3,432,987.
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R.,3,466,840.
Haddix, Robert J.; and Hott, Ion V. K., to Joyce-Cridland Company, The. Control valve. 3,467,138, 9-16-69, Cl. 137-625.24
Haddlesey, David Ian: *See*—
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter,3,464,992.
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter,3,464,993.
Haddock, Ernest: *See*—
Yates, John; and Haddock, Ernest,3,424,723.
Haddock, Louis A., Jr.: *See*—
De Pung, Gary L.; and Haddock, Louis A., Jr.,3,477,539.
Haddon, Alistair Peter William; Gwillim, David T.; and Wood,Thomas Edward, to Plessey Company Limited, The. Information storage devices. 3,420,425, 1-7-69, Cl. 226-196.
Haddon Concrete Company Limited: *See*—
Simmons, Kenneth Ellison, 3,425,658.
Haddow, Norman: *See*—
Arnold, Benjamin Harry; and Haddow, Norman,3,436,310.
Haden, Elard L.: *See*—
Hudgins, Charles M., Jr.; Casad, Burton M.; and Haden, Elard L.,3,424,662.
Haden, Walter L., Jr.; and Dzierzanowski, Frank J., to Engelhard Minerals & Chemicals Corporation, mesne. Method for preparing crystalline zeolite catalyst. 3,433,587, 3-18-69, Cl. 23-112.
Haden, Walter L., Jr.; and Sawyer, Edgar W., Jr., to Engelhard Minerals & Chemicals Corporation, mesne. Sensitized sheet material containing deammoniated, ammonium-exchanged modecular sieve. 3,434,864, 3-25-69, Cl. 117-36.2
Hader, Josef; Neumann, Friedmund; and Wiechert, Rudolf, to Schering A.G.6-Halogen-1α,2α-methylene-16α-methyl-$\Delta^{4,6}$- pregnadiene-17α-ol-3,20-diones and the 17-esters. 3,439,093, 4-15-69, Cl. 424-243.
Haderer, Edward G., to Texas Instruments Incorporated. Hermetically sealed switch with pressure compensation means. 3,422,385, 1-14-69, Cl. 337-348.
Hadfield, Dennis; and Harrison, John, to Levick, Swift & Sons Limited. Permanent magnets. 3,450,580, 6-17-69, Cl. 148-31.57
Haditsch, Werner, to Aktiengesellschaft Brown, Boveri & Cie. Collector ring cooling arrangement. 3,454,802, 7-8-69, Cl. 310-227.
Hadjandreas, Andrew P., to United States of America, Navy, mesne. Frequency control switching system. 3,480,866, 11-25-69, Cl. 325-423.
Hadland, Wayne O.: *See*—
Iwasaki, Nozomu; and Hadland, Wayne O.,3,472,086.
Hadler, Jacques B., to United States of America, Navy. Semisubmerged self-clearing propeller. 3,467,052, 9-16-69, Cl. 115-40.
Hadler, Rudolf; Ullrich, Hansjurgen; and Schreiber, Horst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Apparatus for preparing alkali metal salts of aromatic hydroxy compounds. 3,473,896, 10-21-69, Cl. 23-285.
Hadley, B. H.: *See*—
Shutt, George V., 3,451,186.
Hadley, David James: *See*—
Bethell, James Robert; Gasson, Edward James; Hadley, David James; and Neale, Roderick Frank,3,435,069.
Capp, Clifford William; and Hadley, David James,3,424,781.
Hadley, Doris J.: *See*—
Hadley, Emerson E., deceased; Hadley, Doris J.; Hadley, Emerson Rea; and Long, Joanne B.; heirs,3,468,082.
Hadley, Emerson E., deceased; Hadley, Doris J.; Hadley, Emerson Rea; and Long, Joanne B.; heirs, Sphere shaped structure. 3,468,082, 9-23-69, Cl. 52-81.
Hadley, Emerson Rea: *See*—
Hadley, Emerson E., deceased; Hadley, Doris J.; Hadley, Emerson Rea; and Long, Joanne B.; heirs,3,468,082.
Hadley, William D. Choker hook locking chain. 3,432,201, 3-11-69, Cl. 294-74.
Hadley, William Henry; and Wilton, Ronald William, to Metal Closures Limited. Bottle closure having a frangible skirt portion. 3,455,479, 7-15-69, Cl. 215-42.
Hadzeriga, Pablo: *See*—
Hazen, Wayne C.; Henrickson, Angus V.; and Hadzeriga, Pablo,3,425,799.
Haebler, Herbert, to Varta Aktiengesellschaft. Method of treating storage battery plates. 3,436,266, 4-1-69, Cl. 136-27.
Haebler, Herbert, to Varta Aktiengesellschaft. Positive electrode for lead acid storage batteries. 3,459,595, 8-5-69, Cl. 136-26.
Haebler, Herbert, to Varta Aktiengesellschaft. Process of manufacturing dry storable, formed negative electrode plates of lead-acid storage batteries. 3,486,941, 12-30-69, Cl. 136-27.

Haede, Werner: *See—*
Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Ruschig, Heinrich,3,468,918.
Fritsch, Werner; Stache, Ulrich; and Haede, Werner,3,454,563.
Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt,3,455,910.
Haede, Werner; Radscheit, Kurt; Fritsch, Werner; Stache, Ulrich; and Ruschig, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 814-Pregnen-3,21-diol-20-one-21 acylates and process for preparing them. 3,461,145, 8-12-69, Cl. 260-397.47
Stache, Ulrich; Fritsch, Werner; and Haede, Werner,3,420,820.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard,3,462,421.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard,3,474,091.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; Radscheit, Kurt; and Vogel, Gerhard,3,483,233.
Haefele, Henry A.; and Reid, Orland B., to Singer Company, The. Apparatus for automatially producing diapers, towels and the like. 3,433,187, 3-18-69, Cl. 112-2.
Haefele, John W., to Procter & Gamble Company, The. Gel hairdressing composition. 3,427,382, 2-11-69, Cl. 424-71.
Haefele, John W., to Procter & Gamble Company, The. Keratin modification. 3,465,759, 9-9-69, Cl. 132-7.
Haefele, Walter R., to Shell Oil Company. Fibrous organic material bonded with a block copolymer. 3,464,850, 9-2-69, Cl. 117-135.5
Haefele, Walter R.; Dallas, Charles A.; and Deisz, Marvin A., deceased0 (by Sansonetti, Joseph P.; executor), to Shell Oil Company. Hydrogenated block copolymer compositions with oil. 3,485,787, 12-23-69, Cl. 260-33.6
Haefeli, John E.: *See—*
Florek, Edward J.; De Paolo, Salvatore J.; O'Hare, Thomas F.; Haefeli, John E.; and Berenberg, Oscar,3,482,231.
Haeflein, William K.: *See—*
Levesque, Peter; and Haeflein, William K.,3,478,830.
Haefner, Arthur E.; Pierson, Edward G.; and Jankowiak, Roman, to Conax Corporation. Chip-free explosively actuated valve. 3,473,543, 10-21-69, Cl. 137-67.
Haegens, Anthonius J. T., to Big Dutchman International, A.G. Air duct assembly, particularly for a stable or the like. 3,463,391, 8-26-69, Cl. 236-49.
Haeger, Bruce Edwin: *See—*
Nash, Robert Arnold; and Haeger, Bruce Edwin,3,457,348.
Haen, Eugene P.; Skromme, Robert B.; and Smith, Robert W., to Badger Northland Inc. Livestock feeding apparatus. 3,428,027, 2-18-69, Cl. 119-52.
Haenichen, John C., to Motorola, Inc. High frequency transistor having a base region substrate. 3,454,846, 7-8-69, Cl. 317-235.
Haenichen, John C., to Motorola, Inc. Semiconductor device. 3,473,979, 10-21-69, Cl. 148-187.
Haenky, Norman H. Valve. 3,484,078, 12-16-69, Cl. 251-210.
Haensel, Otto GmbH: *See—*
Bacon, Robert E.; and Davis, William R., 3,443,357.
Haentjens, Walter D. Annular split bearing housing. 3,431,032, 3-4-69, Cl. 308-15.
Haentjens, Walter D. Shaft coupling. 3,468,572, 9-23-69, Cl. 287-129.
Haerich, Milton A. Piano sounding board. 3,478,634, 11-18-69, Cl. 84-193.
Haertling, Gene H.: *See—*
Land, Cecil E.; and Haertling, Gene H.,3,434,122.
Haertsch, Oscar C.: *See—*
McGuire, James F.; and Babbitt, Norman S., 3,439,281.
Haessler, Walter M., to Norris Industries, Inc., mesne. Method of extinguishing deep fat fires. 3,463,233, 8-26-69, Cl. 169-1.
Haeusser, Harry C.: *See—*
Schuller, James T.; Haeusser, Harry C.; and Smith, Barry L.,3,477,556.
Hafenscher, Michel Serge Daniel: *See—*
Duthion, Louis; Hafenscher, Michel Serge Daniel; and Cabassut, Andre Emile Roger,3,436,020.
Haferl, Peter, to Radio Corporation of America. Black level setting circuit for color subcarrier modulator. 3,437,745, 4-8-69, Cl. 178-5.4
Hafler, David, to TLD, Inc., mesne. Transistor amplifier protective circuits. 3,441,864, 4-29-69, Cl. 330-11.
Hafler, David, to TLD Inc., mesne. Amplifiers with tone controls. 3,449,681, 6-10-69, Cl. 330-17.
Hafler, David. Stereo sound recording on super-8 motion picture film. 3,452,161, 6-24-69, Cl. 179-100.2
Hafliger, Albert, to Gebruder Buhler AG. Feed cube press with eccentricity adjusting and clamping means. 3,467,031, 9-16-69, Cl. 107-14.
Hafliger, Franz: *See—*
Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad,3,436,399.
Gagneux, Andre; Hafliger, Franz; and Eugster, Conrad,3,459,862.
Gagneux, Andre R.; and Hafliger, Franz,3,465,034.
Hafner, Karl-Heinz; and Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing thermostabilized trioxane- cyclic ether copolymers. 3,448,081, 6-3-69, Cl. 260-67.
Hafner, Karl-Heinz; and Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of copolymers of trioxane. 3,454,528, 7-8-69, Cl. 260-67.
Hafner, Karl-Heinz; and Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for stabilizing copolymers of trioxane and cyclic ethers. 3,457,220, 7-22-69, Cl. 260-45.85
Hafner, Karl-Heinz; Fischer, Edgar; and Mebwarb, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of copolymers of trioxane capable of being cross-linked by light. 3,442,860, 5-6-69, Cl. 260-52.
Hafner, Karl-Heinz: *See—*
Weissermel, Klaus; Hafner, Karl-Heinz; Gutweiler, Klemens; and Fischer, Edgar,3,442,865.
Hafner, Leo: *See—*
Smetana, Otto; and Hafner, Leo,3,486,843.
Hafner, Theodore. Detection of objects in an electromagnetic field. 3,422,431, 1-14-69, Cl. 343-13.
Hafner, Theodore. Communication systems for high voltage power line. 3,440,576, 4-22-69, Cl. 333-95.
Hafner, Walter, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for manufacturing 2,5- dimethylhydroquinone. 3,424,802, 1-28-69, Cl. 260-621.
Hafner, Walter, to Gerhard Mensel Glasbearbeitungswerk. Method of working glass with absorbent by a laser beam. 3,453,097, 7-1-69, Cl. 65-112.
Hafner, Walter; Kopp, Erwin; and Milles, Karl, to Consortium fur Elektrochemische Industrie G.m.b.H. Nematocides. 3,457,353, 7-22-69, Cl. 424-315.
Hafner, Walter; Milles, Karl; and Kopp, Erwin, to Consortium fur Elektrochemische Industrie G.m.b.H. Method for combating microorganisms with sodium monochloracetaldehyde bisulfite. 3,457,352, 7-22-69, Cl. 424-315.
Hafstad, Millard J.: *See—*
Smithers, James P.; and Hafstad, Millard J.,3,465,491.
Haft, Roland: *See—*
Mayer, Gerhard; and Haft, Roland,3,452,970.
Haga, Yoichi: *See—*
Shiga, Koichiro; Yoshida, Motoshige; and Haga, Yoichi,3,452,203.
Hagadorn, Hubert W., to Honeywell Inc. Multitransducer arrangement. 3,466,637, 9-9-69, Cl. 340-174.1
Hagadorn, Marold Weston; and Johnston, Bruce R., to Sylvania Electric Products Inc. Refractory metal diffusion bonding. 3,431,615, 3-11-69, Cl. 29-25.14
Hagadorn, Marold Weston; and Kerstetter, Donald R., to Sylvania Electric Products Inc. Refractory metal diffusion bonding. 3,431,631, 3-11-69, Cl. 29-498.
Hagan Industries, Incorporated: *See—*
Dvirka, Miro, 3,448,704.
Hagan, John: *See—*
Walter, Gerard S.; and Hagan, John,3,425,022.
Hagan, Lamont: *See—*
Mauro, Jean B.; and Hagan, Lamont,3,427,184.
Hagan, Lamont, to National Distillers and Chemical Corporation. Vapor-impermeable coated polyolefin substrates. 3,442,687, 5-6-69, Cl. 117-72.
Hagan, Ralph S.; and Hartlage, Francis J., to General Electric Company. Process of making cellular plastic products. 3,470,277, 9-30-69, Cl. 264-53.
Hagan, William E. Releasable float for locating and raising sunken objects. 3,451,079, 6-24-69, Cl. 9-9.
Hagans, Daniel S. Table. 3,422,774, 1-21-69, Cl. 108-23.
Hagarman, Paul O., to Texas Instruments, Incorporated. Silver-zinc or cadmium type battery with wire mesh screen electrode. 3,447,967, 6-3-69, Cl. 136-6.
Hagaron Co., Ltd.: *See—*
Aoki, Keisho, 3,441,509.
Hagberg, John E.; and Lensner, Herbert W., to Westinghouse Electric Corporation. Phase comparison relaying network. 3,470,418, 9-30-69, Cl. 317-27.
Hagborg, Harry. Swath mover. 3,472,010, 10-14-69, Cl. 56-370.
Hage, Marvin L.: *See—*
Benincasa, John J.; and Hage, Marvin L.,3,463,526.
Hage, Walter: *See—*
Pelah, Israel; Fraysse, Georges; and Hage, Walter,3,423,586.
Hagedorn, Erwin C., to Owens-Illinois, Inc. Sealing glass compositions, method of sealing, and article. 3,420,684, 1-7-69, Cl. 106-54.
Hagedorn, Erwin C.; and Hall, Dallas P., to Owens-Illinois, Inc. Dichroic glasses. 3,466,180, 9-9-69, Cl. 106-52.
Hagedorn, Floyd T.: *See—*
Stickel, Allwin; and Hagedorn, Floyd T.,3,459,526.
Hagedorn, William H.: *See—*
Tingquist, Stanley C.; Talbot, Albert M.; and Hagedorn, William H.,3,460,604.

Hagel, Adolf: *See—*
Zwingenberger, Arno; and Hagel, Adolf,3,447,344.
Hagel, Carl Heinrich. Helical elevator and load transfer apparatus for a storage building. 3,437,218, 4-8-69, Cl. 214-16.1
Hagel, Carl Heinrich. Multilevel spiral building structure. 3,466,817, 9-16-69, Cl. 52-30.
Hagel, Charles E. Safety cutout switch. 3,449,632, 6-10-69, Cl. 317-9.
Hagelbarger, David W.; and Herriott, Donald R., to Bell Telephone Laboratories, Incorporated. Otical scanning apparatus employing two focusing elements moving parallel to a diffusely reflecting surface and with a spacing parallel to a spacing between a light source and a detector or virtual image thereof. 3,461,298, 8-12-69, Cl. 250-219.
Hagele, Gerhard: *See—*
Mohring, Gustav; Weber, Arno; Glasz, Eugen G.; and Hagele, Gerhard,3,482,750.
Hagelin, Boris Caesar Wilhelm, to Anstalt Europaische Handelsgesellschaft. Perforated tape accessory apparatus for a ciphering machine. 3,485,948, 12-23-69, Cl. 178-22.
Hagelin, Erik Gustav; and Lenngren, Eric Folke Odel, to United Shoe Machinery Company AB. Method for sealing joints and the like. 3,451,696, 6-24-69, Cl. 285-21.
Hageline, Emil E., to Du Broff, Warren. Apparatus for introducing containers into cases. 3,425,186, 2-4-69, Cl. 53-247.
Hageline, Emil E., to DuBroff, Waren, for Lathrop Paulson Company. Apparatus for handling cartons of different sizes. 3,481,105, 12-2-69, Cl. 53-63.
Hageluken, Hubert; and Held, Karl, to Walther, Carl Kurt, Walther-Technik. Abrasive article. 3,453,782, 7-8-69, Cl. 51-164.5
Hageman, Howard A.; and Hubbard, Winchester L., to Uniroyal, Inc.N-[Disubstituted-amino]fumaramic acids and derivatives thereof as plant growth regulating agents. 3,458,304, 7-29-69, Cl. 71-76.
Hagemann, Franz Josef, to Maschinen- und Bohrgerate-Fabrik Alfred Wirth & Co., K.G. Roller-equipped straightening machine. 3,457,752, 7-29-69, Cl. 72-129.
Hagemann, Franz Josef, to Maschinen- und Bohrgerate-Fabrik Alfred Wirth & Co., K.G. Roller-equipped straightening machine. 3,459,022, 8-5-69, Cl. 72-163.
Hagemann, Franz Josef; and Wahl, Karlheinz, to Maschinen- und Bohrgerate-Fabrik Alfred Wirth & Co., K.G. Roller straightening machine. 3,457,754, 7-29-69, Cl. 72-164.
Hagemayer, Gunther: *See—*
Scholl, Hans; and Hagemayer, Gunther,3,434,370.
Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B., to Eastman Kodak Company. Propylene-diolefinic hydrocarbon block copolymers and process for preparing same. 3,433,855, 3-18-69, Cl. 260-878.
Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B., to Eastman Kodak Company. Blend of crystalline block copolymer and ethylene-propylene rubber. 3,478,128, 11-11-69, Cl. 260-876.
Hagemeyer, Hugh J., Jr.; Gleason, Willard P.; and Robinson, Alfred G., III, to Eastman Kodak Company. Processes for preparing ethylene copolymers. 3,466,264, 9-9-69, Cl. 260-75.
Hagemeyer, Hugh J., Jr.; and Statman, Max, to Eastman Kodak Company. Olefin hydration catalyst. 3,459,678, 8-5-69, Cl. 252-435.
Hagemeyer, Hugh J., Jr.; Statman, Max; and Vinyard, Herschel T., to Eastman Kodak Company. High temperature oxidative dehydrogenation of organic compounds. 3,442,933, 5-6-69, Cl. 260-486.
Hagemeyer, Hugh J., Jr.: *See—*
Blood, Alden E.; Dworsky, Joseph E., Jr.; and Hagemeyer, Hugh J., Jr.,3,429,901.
Blood, Alden Edward; Heller, James Davis; and Hagemeyer, Hugh J. Jr.,3,424,731.
Hagemeyer, Hugh John, Jr.; and Edwards, Marvin Becton, to Eastman Kodak Company. Cystalline block copolymers of ethylene, propylene and 1-olefins with vinyl chloride and/or vinylidene chloride. 3,453,346, 7-1-69, Cl. 260-878.
Hagemeyer, Hugh John, Jr.; and Park, Vernon K., to Eastman Kodak Company. Process for the preparation of substantially ash-free polymers. 3,423,384, 1-21-69, Cl. 260-93.7
Hagen, Armin Theodor: *See—*
Bohme, Georg Eduard Wilhelm; and Hagen, Armin Theodor,3,482,711.
Hagen, Donald H. Transmission mechanism. 3,457,805, 7-29-69, Cl. 74-665.
Hagen, Floyd W.: *See—*
De Leo, Richard V.; and Hagen, Floyd W.,3,482,445.
Hagen, Floyd W., to Rosemount Engineering Company. Static pressure sensing device. 3,443,431, 5-13-69, Cl. 73-178.
Hagen, Helmuth: *See—*
Becke, Friedrich; and Hagen, Helmuth,3,450,741.
Zorn, Hermann; Schindlbauer, Helmut; and Hagen, Helmut,3,423,468.
Hagen, Kenneth G.; and Horton, Richard H. Snow scoop. 3,475,838, 11-4-69, Cl. 37-53.
Hagen, Norbert. Method and apparatus for producing hollow plastic articles. 3,422,174, 1-14-69, Cl. 264-69.
Hagen, Oskar, to Westinghouse Electric Corporation. Bearings. 3,427,082, 2-11-69, Cl. 308-26.
Hagen, Reinold. Apparatus for producing hollow plastic articles. 3,479,690, 11-25-69, Cl. 18-5.
Hagen, Richard M., to Du Pont de Nemours, E. I., and Company. Heat-sealable cushioning and insulating structures. 3,460,740, 8-12-69, Cl. 229-53.
Hagen, Werner: *See—*
Herber, Horst; Hagen, Werner; and Schroeder, Wolfgang,3,455,091.
Hagenah, Hans-Gerhard: *See—*
Nanz, Ernst; Hagenah, Hans-Gerhard; and Knopfle, Walter,3,425,703.
Hagenah, Klaus, to Hauni-Werke Korber & Co., KG. Apparatus for transporting shredded tobacco or the like. 3,450,440, 6-17-69, Cl. 302-36.
Hager, Alie Joseph: *See—*
Cokic, Milan; and Hager, Alie Joseph,3,453,665.
Hager, C., & Sons Hinge Manufacturing Company: *See—*
Peterson, Francis C., 3,441,977.
Hager, Donald G.: *See—*
Joyce, Ronald S.; and Hager, Donald G.,3,455,820.
Hager, Donald L.; and Gantert, Raymond A., to Bendix Corporation, The. Valving for electromagnetic pump. 3,486,456, 12-30-69, Cl. 103-53.
Hager, James W., to Moog Inc. Expulsion device having floating piston. 3,446,435, 5-27-69, Cl. 239-265.23
Hager, Jerome E.: *See—*
Braus, Harry; Hager, Jerome E.; and Hill, Lester A., Jr.,3,462,375.
Braus, Harry; Hager, Jerome E.; and Hill, Lestera A., Jr.,3,480,581.
Hager, John L., to Northfield Processed Food Systems Company, Inc. Method for agglomerating powdered material. 3,435,106, 3-25-69, Cl. 264-113.
Hager, Jurg, to Mettler Instrumente AG. Method and apparatus for measuring the boiling point of a liquid. 3,479,859, 11-25-69, Cl. 73-17.
Hager, Nathaniel E., Jr., to Armstrong Cork Company. Prevention of moisture condensation on chilled, filled bottles. 3,420,982, 1-7-69, Cl. 219-388.
Hager, Nathaniel E., Jr., to Armstrong Cork Company. Quick response heat-sensing element. 3,427,209, 2-11-69, Cl. 136-225.
Hager, Robert B., to Pennsalt Chemicals Corporation. Fluoroalkyl dicarboxylic acids and derivatives. 3,471,518, 10-7-69, Cl. 260-345.9
Hager, Robert R., to Bendix Corporation, The. Duo servomotor valve means. 3,434,285, 3-25-69, Cl. 60-54.5
Hagerborg, John G., to International Machinery Corporation S.A. Cooker conveyor chain. 3,473,644, 10-21-69, Cl. 198-140.
Hagerborg, John G.: *See—*
Mencacci, Samuel A.; and Hagerborg, John G.,3,462,003.
Mencacci, Samuel A.; and Hagerborg, John G.,3,469,671.
Hagerman, Paul J. Electrical game equipment and switch employed therein. 3,450,408, 6-17-69, Cl. 273-146.
Hagerty, Sidney E., to Bendix Corporation, The. Adjuster for drum brakes. 3,473,633, 10-21-69, Cl. 188-79.5
Hagfors, Gerald D., to Gray Company, Inc. Spray gun. 3,437,273, 4-8-69, Cl. 239-414.
Hagg, Arthur C.; and Hoffman, Joseph H., to Westinghouse Electric Corporation. Sleeve bearings. 3,476,452, 11-4-69, Cl. 308-127.
Haggard, Richard A., to U.S. Industries, Inc., mesne. Animal house curtain and method of preparing same. 3,478,805, 11-18-69, Cl. 160-5.
Haggerty, John W. Hearing aid mechanisms that are largely impervious to the leakage of sound energy at audio frequencies. 3,457,375, 7-22-69, Cl. 179-107.
Haggerty, Thomas I.: *See—*
Hofrichter, Charles H.; Haggerty, Thomas I.; and Zimmer, Gerald W.,3,463,745.
Haggerty, Walter F. Retroreflective device. 3,450,459, 6-17-69, Cl. 350-103.
Haggis, Geoffrey Arthur: *See—*
Eaton, David Crawford; and Haggis, Geoffrey Arthur,3,462,381.
Haggis, Geoffrey Arthur, to Imperial Chemical Industries Limited. Polymeric materials produced by interacting polyisocyanate and water in the presence of poly- aldimine or polyketimine. 3,420,800, 1-7-69, Cl. 260-75.
Haggstorm, Walter R. G., to Independent Lock Company. Key cutter. 3,430,535, 3-4-69, Cl. 90-13.05
Hagihara, Masaaki; and Takimoto, Shigeru, to Matsushita Electric Industrial Co., Ltd. Electrolyte for electrolytic capacitors. 3,454,840, 7-8-69, Cl. 317-230.
Hagihara, Noboru, to Toa Valve Co., Ltd. Pop safety valve. 3,433,250, 3-18-69, Cl. 137-469.
Hagiwara, Hikoichi: *See—*
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo,3,444,186.
Hagiwara, Miyuki: *See—*
Kagiya, Tsutomu; Machi, Sueo; Hagiwara, Miyuki; and Kise, Seiichi,3,471,463.

Hagler, Norman R., to General Motors Corporation. Vehicle speed transducer. 3,441,104, 4-29-69, Cl. 180-108.
Hagler, Travis J.: *See*—
Olliff, Martin T., Jr.; Williams, Charles F.; Hagler, Travis J.; and Puckett, William R.,3,446,022.
Haglund, Norman E.: *See*—
Keough, Thomas H.; and Haglund, Norman E.,3,435,125.
Hagmann, Foster M. Method of impact forming plastic sheet material. 3,437,726, 4-8-69, Cl. 264-323.
Hagmayer, Adolf. Precision keyway gauge. 3,457,650, 7-29-69, Cl. 33-185.
Hagon, Peter J., to North American Rockwell Corporation. Thin film transistor on an insulating substrate. 3,484,662, 12-16-69, Cl. 317-235.
Hagon, Peter J., to North American Rockwell Corporation. Face bonding technique. 3,484,933, 12-23-69, Cl. 29-577.
Hagopian, Erivan, to Cabot Corporation. Instrument for determining ozone. 3,464,797, 9-2-69, Cl. 23-232.
Hagopian, Jacob J.; and Steele, William E., to International Business Machines Corporation. Magnetic brush apparatus. 3,437,074, 4-8-69, Cl. 118-623.
Hague, Billy: *See*—
Britton, Harold George; and Hague, Billy,3,475,012.
Hague, Louise D.: *See*—
Jezl, James L.; Khelghatian, Habet M.; and Hague, Louise D.,3,441,551.
Khelghatian, Habet M.; Jezl, James L.; and Hague, Louise D.,3,442,978.
Hague, Robert Z.; Ballard, John S.; Lewlew, John J.; and Miller, Franklin G., to Moog, Inc. Positioner for a member such as a machine tool spindle. 3,420,141, 1-7-69, Cl. 90-14.
Hahm, Heinz Gunther, to Teves, Alfred, G.m.b.H. Low-noise hydraulic disk brake. 3,442,356, 5-6-69, Cl. 188-73.
Hahm, Heinz Gunther, to Teves, Alfred, GmbH. Low-noise disk-brake assembly. 3,478,849, 11-18-69, Cl. 188-218.
Hahm, Heinz: *See*—
Beuchle, Friedrich; Hahm, Heinz; Klein, Christof Hans; and Beller, Hans,3,477,551.
Hahn & Clay: *See*—
Pechacek, Raymond E.; Clay, Eugene J.; and Megow, Lawrence F., 3,423,820.
Pechacek, Raymond E., 3,435,794.
Pechacek, Raymond E., 3,478,920.
Hahn, Arthur Edward, Jr.: *See*—
Matzelle, Arnold; and Hahn, Arthur Edward, Jr.,3,487,338.
Hahn, Arthur. Mobile food service wagon. 3,472,392, 10-14-69, Cl. 211-126.
Hahn, Dr. Carl KG.: *See*—
Wolff, Justus; and Messing, Bernd, 3,422,496.
Hahn, Edward E.; Koeller, Erick H.; and Norikane, Kiyoshi, to United States of America, Navy, mesne. Cam plastometer. 3,457,779, 7-29-69, Cl. 73-94.
Hahn, Edward J.: *See*—
Zajac, Anthony J.; and Hahn, Edward J.,3,445,064.
Hahn Enterprises, Inc.: *See*—
Page, Ralph E.; and Van Der Heide, Henry, 3,460,515.
Hahn, Erich, to Veb Pentacon Dresden Kamera- und Kinowerke. Photometer with meter response adjustment coupled to the bridge adjuster. 3,421,006, 1-7-69, Cl. 250-210.
Hahn, Erwin; and Seefelder, Matthias, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aromatic carboxylic acids containing reactive chlorine atoms. 3,445,466, 5-20-69, Cl. 260-251.
Hahn, Erwin; and Seefelder, Matthias, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 5-mercapto-1,2,4-thiodiazole derivatives. 3,478,045, 11-11-69, Cl. 260-302.
Hahn, Erwin; and Wippel, Hans Guenter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Thiadiazole monoazo dyes. 3,441,554, 4-29-69, Cl. 260-158.
Hahn, Frank J.: *See*—
Fantl, Joel; Hahn, Frank J.; Hardy, Edgar E.; and Heaps, John F.,3,434,989.
Hahn, Frank J.; and Isaksen, Robert A., to Monsanto Company. Non-aqueous solution of butylated melamine- formaldehyde condensate and a maleic anhydride adduct with an oleic acid ester of allyl alcohol— styrene copolymer. 3,480,574, 11-25-69, Cl. 260-21.
Hahn, Frederick K.: *See*—
Pratt, Roy E.; and Hahn, Frederick K.,3,436,338.
Hahn, Fritz, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Depilation with a chlorite and hydrogen peroxide or a perborate. 3,445,178, 5-20-69, Cl. 8-94.16
Hahn, Fritz; and Ney, Peter, to Deutsche Gold- und Silber-Scheide-anstalt vormals Roessler. Process for the unhairing of skins and hides with peracids or their salts. 3,479,127, 11-18-69, Cl. 8-94.16
Hahn, Granville J., to Cosden Oil & Chemical Company. Polymer pigmentation. 3,484,262, 12-16-69, Cl. 117-16.
Hahn, Guerry L., to Schlumberger Technology Corporation. Well logging tool with a transversely shiftable member carrying a logging element and having a pivotally linked pad member. 3,448,373, 6-3-69, Cl. 324-1.
Hahn, Harald; and Halama, Henry J., to United States of America, Atomic Energy Commission. Compensation of phase drift on long cables. 3,434,061, 3-18-69, Cl. 328-155.
Hahn, Harald; and Halama, Henry J., to United States of America, Atomic Energy Commission. Microwave deflection system for superconducting particle separator. 3,452,191, 6-24-69, Cl. 250-41.9
Hahn, Harold G.: *See*—
Miles, Wallace J.; Lapham, Rodger J.; and Hahn, Harold G.,3,431,228.
Hahn, Helmut; and Beermann, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Dispersions of polymeric organic compounds and process for making them. 3,427,276, 2-11-69, Cl. 260-32.6
Hahn, Henry: *See*—
Divecha, Amarnath P.; Hahn, Henry; and Lare, Paul J.,3,441,392.
Hahn, Inc.: *See*—
Katz, Friedrich J.; Pfeiffer, Gene F.; and Sorenson, Charles E., 3,443,756.
Hahn, James R., Jr., to Bell Telephone Laboratories, Incorporated. Clock pulse failure detector. 3,458,822, 7-29-69, Cl. 328-120.
Hahn, Johann: *See*—
Sauer, Edgar; Hahn, Johann; and Joos, Karl,3,443,496.
Hahn, Kenneth G.: *See*—
Mabrey, David W.; Pratt, Ivor; Oser, William E.; and Hahn, Kenneth G.,3,453,345.
Hahn, Linus K.: *See*—
Colmery, Benjamin H., Jr.; Hans Linus K., now by change of name; and Hahn, Linus K.,3,424,902.
Hahn, Otto, to Immanuel Maier. Remotely adjustable motor driven rearview mirror. 3,459,470, 8-5-69, Cl. 350-289.
Hahn, Paul Turner; Hoopes, Penrose Robinson; and Froelich, Gunnar Cramer, deceased0 (by Hale, Henrietta C.; executrix), to AMP Incorporated. Lead making machine. 3,456,324, 7-22-69, Cl. 29-203.
Hahn, Raymond A.: *See*—
Henderson, Albert J.; Patterson, James R.; and Hahn, Raymond A.,3,422,053.
Hahn, Richard H., to Global Systems, Inc. Flow augmented nozzle. 3,468,472, 9-23-69, Cl. 230-95.
Hahn, Richard. Vandal-proof luminary. 3,461,283, 8-12-69, Cl. 240-78.
Hahn, Robert S., to Heald Machine Company, The. Grinding high-temperature alloys. 3,431,685, 3-11-69, Cl. 51-166.
Hahn, Werner; and Noack, Rolf, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic cameras. 3,465,661, 9-9-69, Cl. 95-44.
Hahn, Werner; Planert, Wolfgang; Schulze, Heinz; and Wolf, Heinz, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic and cinemagraphic cameras. 3,421,421, 1-14-69, Cl. 95-10.
Hahn, William C.: *See*—
Kuntz, Louis E.; Hahn, William C.; and Rhoades, Merle C.,3,426,273.
Heiss, Rudolf; Hahn, Willi; Behrenz, Wolfgang; and Untersten-hofer, Gunter,3,437,684.
Hahn, Winfried, to Holstein & Kappert Maschinenfabrik 'Phonix' GmbH. Loading arrangement for superimposing layers of objects. 3,486,637, 12-30-69, Cl. 214-6.
Hahne, Helmut: *See*—
Furt, Ludwig; Hahne, Helmut; and Spitzner, Rudolf,3,456,321.
Hahne, Karl Heinz, to Felten & Guilleaume Carlswerk Aktiengesellschaft. Cable construction. 3,433,883, 3-18-69, Cl. 174-28.
Hahne, Siegfried, to Messer Griesheim G.m.b.H. Distance maintenance device for torch. 3,426,175, 2-4-69, Cl. 219-125.
Hahner, Eberhard: *See*—
Smeykal, Karl; Pallutz, Heinrich; Hahner, Eberhard; Becker, Karl; and Stoss, Werner,3,453,314.
Hahon, Nicholas, to United States of America, Army. Rotor chamber insert. 3,445,340, 5-20-69, Cl. 195-127.
Hahs, William A. Support for a subterranean pump installation. 3,485,181, 12-23-69, Cl. 103-219.
Hai, Nhu Bui; and Sturbois, Pierre, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Dual beam antenna for satellites. 3,426,351, 2-4-69, Cl. 343-705.
Haid, Erich: *See*—
Nelboeck-Hochstetter, Michael; and Haid, Erich,3,475,413.
Haide, Karl, to Maybach Mercedes-Benz Motorenbau GmbH. Overdrive torque converter with adjustable axial turbine blades. 3,478,515, 11-18-69, Cl. 60-54.
Haider, Alois. Knockdown formwork for wall openings. 3,439,894, 4-22-69, Cl. 249-39.
Haigh, Brian, to Organon Inc. Medication dispensing means. 3,433,352, 3-18-69, Cl. 206-42.
Haigh, Harold Edwards, to British Titan Products Company Limited. Milling apparatus and process. 3,456,888, 7-22-69, Cl. 241-66.
Haigh, John M.: *See*—
Williams, Robert C.; and Haigh, John M.,3,431,334.
Haiken, Robert M., to Becton, Dickinson and Company. Diaphragm mounting for stethoscope chest piece. 3,470,975, 10-7-69, Cl. 181-24.

Hailstone, Robert Burleigh, to Du Pont de Nemours, E. I., and Company. Glass laminate. 3,437,553, 4-8-69, Cl. 161-199.

Haimila, Armas O.: *See—*
Briggs, William R.; and Haimila, Armas O.,3,463,206.

Haimovitz, Leonard J.; and Adams, Roy C., to Lensol Promotional Sales Inc. Draw-curtain mechanism. 3,439,725, 4-22-69, Cl. 160-84.

Hain, Gottfried M.; and Leonard, Wolfgang B., to ALPMA Alpenland-Maschinenbaugesellschaft Hain & Co. K.G. Wrapping machine. 3,439,472, 4-22-69, Cl. 53-226.

Hain, Josef: *See—*
Sucher, Josef; Werner, Siegfried; Schlosser, Hellmut; Chojnowski, Manfred; and Hain, Josef,3,479,723.

Hain, Robert W.; and Warn, Richard A., Sr., to Washington Forge, Inc. Cabinet type knife box. 3,486,610, 12-30-69, Cl. 206-16.

Haines, Allan D., to National Machinery Company, The. Pointer mechanism. 3,435,472, 4-1-69, Cl. 10-21.

Haines and Sherman Limited: *See—*
Wagstaffe, Aubrey Hubert, 3,423,937.

Haines, Avery Alfred Simpson. Non-slewing luffing crane. 3,451,559, 6-24-69, Cl. 212-8.

Haines, Charles, Jr.; and Rothrock, Roy R., to Armstrong Cork Company. Process of curing hardboard containing wood fibers and Portland cement. 3,438,853, 4-15-69, Cl. 162-164.

Haines, Ernest Martin; and Taylor, Henry Bastian, to General Electric Company, Limited, The. Electric crossbar switches. 3,478,285, 11-11-69, Cl. 335-112.

Haines, Leslie V.: *See—*
Waychoff, John L., 3,446,449.

Haines, Paul Gordon: *See—*
Albert, Harry Elmer; and Haines, Paul Gordon,3,487,056.

Haines, Robert C., to Dunlop Company Limited, The. Game ball. 3,428,315, 2-18-69, Cl. 273-61.

Haines, Robert C.; and Corish, Patrick J., to Dunlop Company Limited, The. Game ball. 3,432,165, 3-11-69, Cl. 273-61.

Haines, Robert C.; and Pridgeon, Royce, to Dunlop Company Limited, The. Game ball. 3,428,314, 2-18-69, Cl. 273-61.

Haines, Robert M.: *See—*
Klass, Donald L.; Martinek, Thomas W.; and Haines, Robert M.,3,468,167.

Haines, Robert M.; Klass, Donald L.; and Martinek, Thomas W., to Union Oil Company of California. Apparatus and method for measuring field potential differences using a field responsive variable dielectric fluid sensor. 3,452,275, 6-24-69, Cl. 324-72.
Martinek, Thomas W.; Haines, Robert M.; Weichman, Roger L.; and Trainor, Wilbur J.,3,476,687.

Haines, Robert S., to International Business Machines Corporation. Method and composition for treating the surface of polymeric articles to improve adhesion. 3,445,264, 5-20-69, Cl. 117-47.

Haines, Robert S.; and Vranka, Joseph S., to International Business Machines Corporation. Method of fabricating magnetic recording media. 3,479,219, 11-18-69, Cl. 117-235.

Haines, Russell R., to Paper & Corrugated Specialties Co. Heat sealing apparatus. 3,461,647, 8-19-69, Cl. 53-373.

Haining, Frank W.; Halperin, Bernard I.; and Thompson, James O., to International Business Machines Corporation. Process for developing diazotype materials. 3,421,895, 1-14-69, Cl. 96-49.

Hainke, Georg: *See—*
Bourggraff, Robert; and Hainke, Georg,3,457,058.

Hainke, Georg, to Compagnie de Saint-Gobain. Apparatus for production of armored sheet glass. 3,459,524, 8-5-69, Cl. 65-150.

Hainz, Richard, to Friedmann & Maier. Test stand for fuel injection pumps. 3,425,270, 2-4-69, Cl. 73-119.

Hair, Eddy R.: *See—*
Bergeron, Robert J.; Hair, Eddy R.; and Joffe, Frederick M.,3,436,227.
Dobson, Robert D.; Going, Louis H.; and Hair, Eddy R.,3,449,133.

Hair, Eddy R.; and Strang, David A., to Procter & Gamble Company, The. Method of freeze drying coffee extracts. 3,486,907, 12-30-69, Cl. 99-71.

Hair, Hugh A.; Roome, Gerard T.; Gerst, Carl W.; Des-Jardins, Edgar E.; and Domick, Edward J., to Research Corporation. Reciprocal ferrite phase shifters and memory system utilizing same. 3,447,143, 5-27-69, Cl. 340-174.

Hair, Hugh A.: *See—*
Rudolph, Luther D.; Blackwell, Paul K., Jr.; and Hair, Hugh A.,3,445,821.
Firth, Donald; Cunningham, Sinclair; and Hair, Hugh,3,456,533.

Hair, Michael L.: *See—*
Filbert, Augustus M.; and Hair, Michael L.,3,453,806.
Filbert, Augustus M.; and Hair, Michael L.,3,456,427.

Hair, Michael L., to Corning Glass Works. Method for making hollow glass particle having a metallic copper coating. 3,420,645, 1-7-69, Cl. 65-21.

Hair, Ronald A.; Hattrup, Gerald J.; and Bramble, John H., to Westinghouse Electric Corporation. Method for producing improved metallic strip material. 3,421,925, 1-14-69, Cl. 117-66.

Hairabedian, Barouyr Z.; and Wasylchak, Russell W., to International Business Machines Corporation. Cable fabricating method and apparatus. 3,459,609, 8-5-69, Cl. 156-52.

Haire, Kenneth E., to International Business Machines Corporation. Pulsed current generating circuits. 3,471,770, 10-7-69, Cl. 323-1.

Haire, Richard G.: *See—*
Lloyd, Milton H.; and Haire, Richard G.,3,461,076.

Haisch, Richard A.: *See—*
Delahunt, John F.; and Haisch, Richard A.,3,483,101.

Haisma, Jan, to U.S. Philips Corporation, mesne. Gas laser. 3,477,036, 11-4-69, Cl. 331-94.5

Haiss, Hermann S.: *See—*
Brinckman, Frederiek E.; and Haiss, Hermann S.,3,437,651.

Haist, Grant M.; and King, James R., to Eastman Kodak Company. Thermally activatable diazotype compositions. 3,480,433, 11-25-69, Cl. 96-49.

Haisty, Robert W.: *See—*
Conrad, Raymond W.; Haisty, Robert W.; and Hoyt, Pete L.,3,421,952.

Haisty, Robert W., to Texas Instruments Incorporated. Drift transistor. 3,422,322, 1-14-69, Cl. 317-235.

Hait, Paul W., to Varian Associates. Hemispheric cryogenic vacuum trap and vacuum system using same. 3,472,039, 10-14-69, Cl. 62-55.5

Hajdu, Juan: *See—*
Bastenbeck, Edwin W.; and Hajdu, Juan,3,472,664.
Saubestre, Edward B.; and Hajdu, Juan,3,447,974.
Saubestre, Edward B.; and Hajdu, Juan,3,460,952.
Saubestre, Edward B.; and Hajdu, Juan,3,471,320.

Hajikano, Kiyoshi. Adjustable drawing die. 3,431,769, 3-11-69, Cl. 72-468.

Hajikano, Kiyoshi. Die tightening case. 3,436,952, 4-8-69, Cl. 72-467.

Hajikano, Kiyoshi. Die case. 3,436,953, 4-8-69, Cl. 72-467.

Hajikano, Kiyoshi. Arcuate surface grinding device. 3,442,054, 5-6-69, Cl. 51-80.

Hajikano, Kiyoshi. Cylindrical grinding device. 3,453,785, 7-8-69, Cl. 51-330.

Hajzak, Dennis G., to Bendix Corporation, The, mesne. Sputtering apparatus. 3,487,000, 12-30-69, Cl. 204-298.

Hakala, John R., to Harrison Jet Guns, Inc. Method and apparatus for loading a well perforator. 3,444,810, 5-20-69, Cl. 102-20.

Hakansson, Jan Torsten; and Dilot, Rolf Magnus, to AB Akerlund & Rausing. Machine for erecting rectangular cardboard box. 3,451,317, 6-24-69, Cl. 93-51.

Hakanssons, AB, Industries: *See—*
Nordstedt, Hans Josef; and Delin, Lars Folke, 3,486,174.

Haki, Morio: *See—*
Sida, Juichi; Haki, Morio; and Yokoyama, Tosiaki,3,473,534.

Hakka, Leo E., to Butts, Ernest O. Leak detection apparatus. 3,470,340, 9-30-69, Cl. 200-61.04

Hakkarinen, William, to United States of America, Navy. Wind driven generator. 3,473,038, 10-14-69, Cl. 290-44.

Hakluytt, John Philip Dabbs, to National Research Development Corporation. Oil fuel burning equipment. 3,452,933, 7-1-69, Cl. 239-399.

Hakulin, Bertel Kristian, to Osakeyhtio, A. Ahlstrom. Method for heat treatment of lyes and sludges. 3,445,549, 5-20-69, Cl. 263-53.

Hala, Alfred A. Wall-tie assembly for use in the construction of waterproof walls. 3,426,494, 2-11-69, Cl. 52-410.

Halaco Engineering Co.: *See—*
Haack, Clarence W., 3,468,524.

Halaj, Ivan. Amusement apparatus. 3,462,140, 8-19-69, Cl. 272-33.

Halama, Henry J.: *See—*
Hahn, Harald; and Halama, Henry J.,3,434,061.
Hahn, Harald; and Halama, Henry J.,3,452,191.

Halasa, Adel F., to Firestone Tire & Rubber Company, The. Certain bis[2-,2-benzothiazolinethione-3- yl,ethyl]sulfone compounds. 3,429,891, 2-25-69, Cl. 260-306.

Halasa, Adel F.; and Hunt, Jerry D., to Firestone Tire & Rubber Company, The. Rubber stabilized with phosphonitrilic compounds. 3,474,052, 10-21-69, Cl. 260-3.

Halbach & Braun, Maschinenfabrik: *See—*
Braun, Ernst; and Braun, Gert, 3,431,024.

Halbach, Carl R., to United States of America, Air Force. Enthalpy sensor. 3,459,040, 8-5-69, Cl. 73-190.

Halbach, E. H.: *See—*
Duerksen, Arnold, 3,437,200.

Halbach, Ralph H., to Dorr-Oliver, Incorporated. Counter-current wash for centrifugal separator. 3,443,746, 5-13-69, Cl. 233-15.

Halberg Maschinenbau G.m.b.H. & Co.: *See—*
Ludewig, Max; Zorner, Walter; and Tonn, Elmar, 3,439,924.

Halberg, Robert A.; and Sundquist, John L., to Minnesota Mining and Manufacturing Company. Image locating means for a projection device. 3,472,585, 10-14-69, Cl. 353-27.

Halberstadt, Lewis James: *See—*
St. Laurence, William A.; and Halberstadt, Lewis James,3,425,084.

Halbert, Silas R., to Mohawk Data Sciences Corporation, mesne. Card picker mechanism. 3,424,453, 1-28-69, Cl. 271-35.
Halcon International, Inc.: *See*—
Barker, Robert S., 3,442,950.
Choo, Chai Y., 3,442,958.
Choo, Chai Y.; and Golden, Richard L., 3,459,810.
Choo, Chai Y., 3,475,498.
Golden, Richard L.; and Mazzella, Gerald, 3,423,471.
Golden, Richard L.; and Korchak, Ernest I., 3,424,806.
Golden, Richard L.; and Schmidt, John P., 3,452,055.
Harvey, Robert J., 3,449,217.
Herzog, Stanley, 3,427,229.
Korchak, Ernest I., 3,442,963.
Levine, Irving E., 3,470,260.
Monroe, Paul S., 3,432,905.
Monroe, Paul Seeley, 3,468,014.
Naglieri, Anthony N.; and Winnick, Charles N., 3,449,326.
Pell, Melvyn; and Korchak, Ernest Ian, 3,439,001.
Peterson, Oscar A., 3,443,794.
Pugach, Joseph, 3,468,763.
Pugach, Joseph, 3,468,930.
Russell, Joseph L.; and Olenberg, Harry, 3,420,897.
Russell, Joseph L.; and Winnick, Charles N., 3,458,534.
Russell, Joseph L., 3,459,805.
Russell, Joseph L., 3,470,239.
Russell, Joseph L., 3,482,936.
Russell, Joseph Lee; and Becker, Mitchell, 3,438,726.
Russell, Joseph Lee, 3,475,500.
Schmidt, John P., 3,449,219.
Sherwin, Martin B.; Fox, Sherwood N.; and Colton, John White, 3,443,898.
Sugerman, Gerald, 3,442,959.
Sugerman, Gerald, 3,483,250.
Winnick, Charles N.; and Ochlossman, Irwin, 3,456,021.
Winnick, Charles N.; and Naglieri, Anthony N., 3,475,350.
Winnick, Charles N., 3,475,499.
Yildirim, Uyanik; Malow, Monroe; Lourie, Cary H.; and Evans, Barry, 3,429,939.
Halcour, Kurt: *See*—
Kronig, Walter; Halcour, Kurt; and Scharfe, Gerhard,3,459,657.
Kronig, Walter; Mayrhofer, Wilhelm; Scharfe, Gerhard; Schwerdtel, Wulf; and Halcour, Kurt,3,485,887.
Haldeman, John W.: *See*—
Foote, Kenneth R.; and Haldeman, John W.,3,486,656.
Haldeman, Robert George: *See*—
Langer, Stanley Harold; and Haldeman, Robert George,3,475,302.
Halder, Rudolf: *See*—
Otten, Gerhard; Halder, Rudolf; and Schreiber, Horst,3,426,083.
Halderman, Joseph, Jr.: *See*—
Adler, Meryle D. W.; Halderman, Joseph, Jr.; and Pauls, Lawrence A.,3,469,503.
Haldimann, Hans Rudolph; and Bartels, Helmut, to Werner, Bahlsen. Material handling system. 3,434,604, 3-25-69, Cl. 214-16.4
Haldopoulos, Ioakim, to American Standard, Inc. Coupling bolt with plastic head. 3,448,466, 6-10-69, Cl. 4-68.
Haldor Frederik Axel Topsoe: *See*—
Rump, Leif, 3,474,229.
Hale & Associates Limited: *See*—
Gardner, Kenneth; and Wightman, Donald A., 3,442,532.
Hale, Arthur N.: *See*—
Kosrow, Robert L.; Matias, James J.; and Hale, Arthur N.,3,486,474.
Hale, Arthur N., to Union Special Machine Company. Intermittent output transmission. 3,435,790, 4-1-69, Cl. 112-214.
Hale, Arthur N.; and Kosrow, Robert L., to Union Special Machine Company. Conveyor sewing unit with shiftable top feed belt and work loading arrangement. 3,469,545, 9-30-69, Cl. 112-2.
Hale, Chapman M., Jr.: *See*—
Stanin, Theodore E.; Seaton, William H.; and Hale, Chapman M., Jr.,3,436,428.
Hale, Dean Howard. Reclining dental chair. 3,427,072, 2-11-69, Cl. 297-342.
Hale, Douglas, to Ralston Purina Company. Method of manufacturing a meat containing expanded food product. 3,447,929, 6-3-69, Cl. 99-7.
Hale, Douglas; and Flier, Ronald J., to Ralston Purina Company. Process for making an animal food. 3,467,525, 9-16-69, Cl. 99-2.
Hale, Edith A. Hair dyeing apparatus. 3,424,176, 1-28-69, Cl. 132-112.
Hale, Edith A. Filter for tobacco products. 3,438,381, 4-15-69, Cl. 131-267.
Hale, Edith A. Automobile pollution eradicator. 3,456,439, 7-22-69, Cl. 60-31.
Hale, Edith A. Shampoo cap. 3,456,655, 7-22-69, Cl. 132-9.
Hale, Edward C.; and Kerekes, Peter S., to Domtar Limited. Fabricated caul plate. 3,454,457, 7-8-69, Cl. 161-164.
Hale, Elgie J.: *See*—
Griffeth, Thurman F.; Taylor, Lawrence C.; and Hale, Elgie J.,3,487,302.
Hale, Everett W.: *See*—
Laudenslager, Harry B., Jr.; and Hale, Everett W.,3,445,299.
Hale, Everett W., to Blackstone Corporation. Inoculation feeders. 3,479,093, 11-18-69, Cl. 302-40.
Hale, Henrietta C.: *See*—
Hahn, Paul Turner; Hoopes, Penrose Robinson; and Froelich, Gunnar Cramer,3,456,324.
Hale, Jack T.: *See*—
Greenwood, Alan; and Hale, Jack T.,3,486,195.
Hale, James F.; and Tressler, Donald K., to Borden Company, The. Frozen mushroom product. 3,470,000, 9-30-69, Cl. 99-193.
Hale, Jesse R. W., to General Connectors Corporation. Articulated connector. 3,443,828, 5-13-69, Cl. 285-266.
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P., to Sperry Rand Corporation. Drive. 3,444,676, 5-20-69, Cl. 56-296.
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P., to Sperry Rand Corporation. Drive. 3,463,018, 8-26-69, Cl. 74-60.
Hale, Murray Everett; and Wright, Robert David, to United States of America, Air Force. High-power surge arrester. 3,431,452, 3-4-69, Cl. 313-231.
Hale, Robert C., to Moore, Samuel, and Company. Electrostatically shielded wire bundle. 3,474,186, 10-21-69, Cl. 174-103.
Hale, Thomas F. Veneer dryer. 3,453,743, 7-8-69, Cl. 34-155.
Hale, Warren F., to Union Carbide Corporation. Polyhydroxyether compositions containing polycarbonates. 3,480,695, 11-25-69, Cl. 260--860
Halek, George Walter, to Celanese Corporation. Stabilization of oxymethylene polymers. 3,484,400, 12-16-69, Cl. 260-18.
Halek, George W.; and Berardinelli, Frank M., to Celanese Corporation. Polymer bonding. 3,436,299, 4-1-69, Cl. 161-160.
Halepas, Leon J.: *See*—
Dastoli, Joseph; Dehnel, William; and Halepas, Leon J.,3,481,075.
Hales, Eric Charles, to Girling Limited. Hydraulic brake control valves. 3,449,018, 6-10-69, Cl. 303-6.
Hales, Keith John: *See*—
Richards, Edward Gordon; Ward, David Marshall; Hales, Keith John; and Stephenson, Norman,3,479,157.
Hales, Pryce N., to Boeing Company, The. Signal detection system having plural output channels. 3,478,317, 11-11-69, Cl. 340-147.
Hales, Ralph A., to Atlas Chemical Industries, Inc. Trisorbitol dihydrate. 3,445,528, 5-20-69, Cl. 260-635.
Hales, Ralph A., to Atlas Chemical Industries, Inc. Crystallization of mannitol from sorbitol. 3,484,492, 12-16-69, Cl. 260-635.
Hales, William E.: *See*—
Segel, Joseph M.; and Hales, William E.,3,448,850.
Haley, Alfred J., Jr.; Keith, Carl D.; and May, James E., to Engelhard Industries, Inc. Method of producing a composite electrode. 3,461,058, 8-12-69, Cl. 204-290.
Haley, Floyd C.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,487,216.
Haley, Frank, to FMC Corporation. Coupling for flanged pipe. 3,473,830, 10-21-69, Cl. 285-24.
Haley, Harold A., to FMC Corporation. Tubular film extrusion apparatus. 3,432,886, 3-18-69, Cl. 18-14.
Haley, Harold A., to FMC Corporation. Extrusion apparatus. 3,461,500, 8-19-69, Cl. 18-14.
Haley, Joseph P.: *See*—
Packer, Louis L.; McKenzie, Robert D.; and Haley, Joseph P.,3,438,365.
Haley, Kenneth M.; Molinaro, Lawrence J.; and Reed, Richard L., to Reserve Mining Company. Conveying and classifying apparatus. 3,438,491, 4-15-69, Cl. 209-106.
Haley, William L. Drill pipe float valve. 3,446,237, 5-27-69, Cl. 137-463.
Halff, Albert H.; and Reid, Allen F. Apparatus for fluoridation of water. 3,420,637, 1-7-69, Cl. 23-272.8
Halfhill, Donald W.; and Comley, William, Jr., 1/2 to Bourns, Inc., and 1/2 to McDonnell Douglas Corporation. Square law function generator. 3,441,728, 4-29-69, Cl. 235-197.
Halfon, Albert: *See*—
Townsend, Palmer W.; Laird, William B.; and Halfon, Albert,3,443,389.
Halfon, Leon. Multipurpose boat. 3,422,778, 1-21-69, Cl. 114-39.
Halfyard, Oliver C. Safety key and lock. 3,486,355, 12-30-69, Cl. 70-421.
Halka, John J., Jr.: *See*—
Halko, John J., Jr., 3,480,313.
Halker, Bruce B.: *See*—
Gibson, Fred D., Jr.; Halker, Bruce B.; and Thayer, Robert L.,3,463,707.
Halkey-Roberts Corporation: *See*—
Bogossian, Armen; and Mackal, Henry H., 3,429,330.
Halko, Inc.: *See*—
Kopp, Harold W., 3,439,916.
Halko, John J., Jr., to Burke, Ben, and Halka, John J., Jr., and Blackstien, Allan A. Frame structure. 3,480,313, 11-25-69, Cl. 287-189.36
Hall & Hall Limited: *See*—
Linwood, Derek Arthur, 3,469,854.

Hall, Albert B., to Shell Oil Company. Production of diallylamine. 3,428,685, 2-18-69, Cl. 260-585.
Hall, Albert M.: *See*—
Feure, Henry; and Hall, Albert M.,3,470,253.
Hall, Andrew Harklestone: *See*—
Smith, Geoffrey Howard; Thomas, Derek; and Hall, Andrew Harklestone,3,468,870.
Hall, Arnold M.: *See*—
Mantle, Peter J.; and Hall, Arnold M.,3,476,069.
Hall, C. M., Lamp Company: *See*—
Liedel, Douglas D., 3,440,898.
Liedel, Douglas D., 3,444,754.
Liedel, Douglas D., 3,473,823.
Liedel, Douglas D., 3,474,686.
Smith, Robert J., 3,444,755.
Smith, Robert J., 3,456,153.
Hall, Charles A.: *See*—
Hall, Floyd D.; and Hall, Charles A.,3,462,872.
Hall, Charles J., to American Can Company. Display device. 3,462,020, 8-19-69, Cl. 211-13.
Hall, Dallas P.: *See*—
Hagedorn, Erwin C.; and Hall, Dallas P.,3,466,180.
Hall, Daniel H., to Diamond Shamrock Corporation. Process for cooking woodchips with a liquor containing condensation product of vicinal epoxide and phenol. 3,446,700, 5-27-69, Cl. 162-72.
Hall, Daniel Noyes: *See*—
Griesbaum, Karl; Oswald, Alexis A.; and Hall, Daniel Noyes,3,449,474.
Hall, David W.: *See*—
Argabright, Perry A.; and Hall, David W.,3,427,322.
Hall, David Wilson, II, to Radio Corporation of America. Voltage regulated power supply including a breakdown device and means tending to keep the current flow therethrough constant. 3,428,885, 2-18-69, Cl. 323-22.
Lutz, Eugene F.; Kelly, Joe T.; and Hall, David W.,3,481,994.
Hall, David W.; and De Puy, Charles H., to Marathon Oil Company. Chemical process for the production of carbonyl addition compounds. 3,481,986, 12-2-69, Cl. 260-593.
Hall, Donivan L.: *See*—
Bell, Robert E.; Hall, Donivan L.; and Loshbough, Richard C.,3,435,916.
Hall, Donivan L.; Martin, Orval J.; and Robaszkiewicz, Gerald D., to Reliance Electric Company. Queueing controls for a group of elevators. 3,474,885, 10-28-69, Cl. 187-29.
Hall, Donivan L.; and Robaszkiewicz, Gerald D., to Reliance Electric Company. Energizing controls for elevator hoist equipment of a plural car elevator system. 3,486,584, 12-30-69, Cl. 187-29.
Hall, Donivan L.; and Susor, William C., to Reliance Electric and Engineering Company, The,mesne. Elevator demand memory. 3,443,667, 5-13-69, Cl. 187-29.
Hall, Donivan L.; and Susor, William C., to Reliance Electric and Engineering Company, The, mesne. Plural car elevator system for developing hall call assignments between individual cars and registered hall calls. 3,443,668, 5-13-69, Cl. 187-29.
Hall, Eldon L.: *See*—
Segro, Nicholas R.; and Hall, Eldon L.,3,425,970.
Hall, Ernst Otto Sigfrid, to A B Halldemaskiner. Device in machines for cutting foodstuff. 3,468,355, 9-23-69, Cl. 146-78.
Hall, Floyd Charles: *See*—
Scroggie, James A.; and Hall, Floyd Charles,3,421,712.
Scroggie, James A.; Davidson, Miron; Hall, Floyd Charles; and Farley, George Albert,3,419,925.
Hall, Floyd D.; and Hall, Charles A. Trap setter. 3,462,872, 8-26-69, Cl. 43-97.
Hall, Frank Kenneth, to Brown, D. S., Company, The. Rail hold down system. 3,481,539, 12-2-69, Cl. 238-349.
Hall, Frank K., to Brown, D. S., Company, The. Elongated, hollow, elastomer sealing strip with elongated, laterally deformable spring. 3,479,933, 11-25-69, Cl. 94-18.
Hall, George D.; Huber, Robert H.; and Wagner, Robert W., to Rockwell Manufacturing Company. Electric motor and brush assembly for a portable tool. 3,430,084, 2-25-69, Cl. 310-50.
Hall, George D.: *See*—
Karlby, Henning; Grundy, Howard Reed; Speer, John R.; and Hall, George D.,3,427,484.
Hall Harding Limited: *See*—
Lyons, Stanley Lewis, 3,430,321.
Hall, Henry J. Domestic walk-in cooler. 3,470,705, 10-7-69, Cl. 62-125.
Hall, Henry J.; and Rodda, Arthur E., to Newman & Guardia Limited. Optical gates. 3,473,874, 10-21-69, Cl. 355-52.
Hall, Henry K., Jr., to Du Pont de Nemours, E. I., and Company. 1-Cyanobicyclo [1.1.0] butane and its polymers. 3,457,194, 7-22-69, Cl. 260-2.
Hall, Henry Patrick: *See*—
Cooke, Gordon Noel; Hall, Henry Patrick; and Lister-Kaye, John Christopher Lister,3,481,545.
Hall, Henry Warburton: *See*—
Gordon, David; and Hall, Henry Warburton,3,431,159.
Hall, Howard T. Multianvil press. 3,440,687, 4-29-69, Cl. 18-16.
Hall, Hubert B.: *See*—
Wilson, Wayne D.; and Hall, Hubert B.,3,468,801.
Wilson, Wayne D.; and Hall, Hubert B.,3,473,935.
Hall, Hugh E., Jr., to Texaco Inc. Energy level selective activation radioactivity analysis suitable for borehole logging. 3,452,201, 6-24-69, Cl. 250-82.3
Hall, J. & E., Limited: *See*—
Roberts, Edmund G. Russell, 3,486,553.
Hall, James A.; and Nicholson, James F., to Westinghouse Electric Corporation. Image dissector camera tube with electronically variable selector aperture. 3,469,141, 9-23-69, Cl. 315-10.
Hall, James A.; and Peppiatt, Harry J., to General Electric Company. Broadband, low noise amplifier using a common base transistor configuration. 3,454,895, 7-8-69, Cl. 330-31.
Hall, James D. Golf putting device. 3,434,720, 3-25-69, Cl. 273-180.
Hall, James Edward: *See*—
Barradell-Smith, Richard; Hall, James Edward; and Roby, James,3,480,160.
Hall, James E.; Mrlik, Jerry R.; Musser, James G.; and Winchell, Frank J., said Mrlik assor to General Motors Corporation. Aerodynamic spoiler for automotive vehicles. 3,455,594, 7-15-69, Cl. 296-1.
Hall, Jeffrey, to Holset Engineering Company Limited. Means for cooling torsional vibration damper. 3,443,454, 5-13-69, Cl. 74-574.
Hall, Jeffrey, to Holset Engineering Company Limited. Torsional vibration damper. 3,479,907, 11-25-69, Cl. 74-574.
Hall, John H., to Union Carbide Corporation. Method of providing electrical contacts by sputtering a film of gold on a layer of sputtered molybdenum. 3,437,888, 4-8-69, Cl. 317-234.
Hall, John H., to Union Carbide Corporation. Method of forming thin film resistors by cathodic sputtering. 3,477,935, 11-11-69, Cl. 204-192.
Hall, John N.; and Kim, Charles W., to Hercules Incorporated. Synthetic textile yarn. 3,470,685, 10-7-69, Cl. 57-140.
Hall, John P., to United States of America, Navy, mesne. Parallax correction computer. 3,448,920, 6-10-69, Cl. 235-61.
Hall, John R.: *See*—
Anderson, Jarl H.; Schlinger, Robert Charles; and Hall, John R.,3,456,897.
Schlinger, Robert Charles; and Hall, John Robert,3,472,157.
Hall, John R. Method and apparatus for forming concrete piles. 3,434,294, 3-25-69, Cl. 61-53.6
Hall, John S.; and Carpenter, Peter E. G., to Square D Company. Molded case circuit breaker with sensitive thermal and magnetic trip mechanism. 3,467,920, 9-16-69, Cl. 335-23.
Hall, John S.; Carpenter, Peter E. G.; and Cook, David L., to Square D Company. Earth-leakage sensing circuit breaker. 3,470,507, 9-30-69, Cl. 335-174.
Hall, John, to Bemrose & Sons Limited. Apparatus for simultaneously forming cartons and delivering a product thereinto. 3,455,087, 7-15-69, Cl. 53-192.
Hall, Kenneth F. Pole mounted fishhook holder and guard. 3,449,851, 6-17-69, Cl. 43-25.2
Hall, Kenneth Frank; and Chambers, George, to Watson, W., & Sons, Limited. Friction driven microscope stages. 3,428,387, 2-18-69, Cl. 350-86.
Hall, Kenneth H.: *See*—
Gulino, Rosario; and Hall, Kenneth H.,3,463,015.
Hall, Kenneth J., to Western Machinery Corporation. Apparatus for stacking and sorting panels. 3,430,784, 3-4-69, Cl. 214-6.
Hall, Larry Eugene, to Du Pont de Nemours, E. I., and Company. Noncatalytic process for manufacture of chlorofluoroaliphatic hydrocarbons. 3,436,430, 4-1-69, Cl. 260-653.4
Hall, Lawrence J.; Mayer, Robert; and Young, Einar T., to Sun Oil Company. Catalyst analysis apparatus. 3,435,238, 3-25-69, Cl. 250-218.
Hall, Leland V. Diminishing container and dispenser. 3,432,078, 3-11-69, Cl. 222-80.
Hall, Leslie; and Lynes, Arthur E., to Ford Motor Company. Electric propulsion motor vehicle. 3,477,538, 11-11-69, Cl. 180-65.
Hall, Leslie; Lynes, Arthur E.; and Martland, Laurie, to Ford Motor Company. Vehicle heating and ventilation system. 3,451,469, 6-24-69, Cl. 165-41.
Hall, Lewis W., Jr.: *See*—
Dougherty, Gerald; and Hall, Lewis W., Jr.,3,442,833.
Hedge, John A.; Hall, Lewis W., Jr.; and Shore, Charles,3,459,695.
Ware, Richard E.; and Hall, Lewis W., Jr.,3,450,551.
Hall, Lloyd E., to Beckman Instruments, Inc. Contact carrier for multiturn rotary potentiometer. 3,426,307, 2-4-69, Cl. 338-143.
Hall, Luther A. R., to Geigy Chemical Corporation. Polymeric pour point depressant compositions. 3,477,957, 11-11-69, Cl. 252-59.
Hall, Mitchell A. Shim deflecting means for coin chute. 3,430,747, 3-4-69, Cl. 194-92.
Hall, Mitchell A. Coin slide latch and caliper assembly. 3,434,578, 3-25-69, Cl. 194-92.
Hall, Mitchell A. Coin slide construction. 3,434,579, 3-25-69, Cl. 194-92.

Hall, Mitchell A. Manual actuator for service machines. 3,434,580, 3-25i69, Cl. 194-9.
Hall, Mitchell A. Coin-controlled starter mechanism for cycle timers. 3,462,565, 8-19-69, Cl. 200-35.
Hall, Mitchell A. Impact starter for cycle timers. 3,462,566, 8-19-69, Cl. 200-35.
Hall, Myron C.: *See*—
Woodland, Richard G.; and Hall, Myron C.,3,445,192.
Hall, Norman M.: *See*—
Chow, Alfred W.; and Hall, Norman M.,3,480,628.
Hall, Norris R.; Prince, Terry B.; and Ritchey, James F., to Bell Telephone Laboratories, Incorporated. Automatic group selector tape indexing mechanism. 3,428,758, 2-18-69, Cl. 179-90.
Hall, Ralph W. Machine for forming a trim strip. 3,485,127, 12-23-69, Cl. 83-213.
Hall, Raymond Frederick, to U.S. Philips Corporation, mesne. Cold-cathode glow-discharge tube. 3,465,194, 9-2-69, Cl. 313-209.
Hall, Raymond Frederick; and Sherwin, Kenneth Arthur, to Fisons Fertilizers Limited. Method and apparatus for the determination of free sulphate ion in slurries. 3,431,076, 3-4-69, Cl. 23-230.
Hall, Raymond L. Ski simulation apparatus. 3,455,550, 7-15-69, Cl. 272-57.
Hall, Raymond L. Modular railing system. 3,484,827, 12-16-69, Cl. 256-59.
Hall, Richard E., to International Business Machines Corporation. Electro-optical scanner with a photocell and a. 3,448,275, 6-3-69, Cl. 250-209.
Hall, Richard F.: *See*—
Walker, Donald V.; and Hall, Richard F.,3,479,625.
Hall, Richard H.; Lamson, Junior J.; Sikkema, Andrew J.; and Roberts, Carleton W., to Dow Chemical Company, The. Composition of vinyl chloride polymers and co- polymers of alkenyl aromatic hydrocarbons and acrylonitrile or methacrylonitrile. 3,424,823, 1-28-69, Cl. 260-898.
Hall, Richard H.; Lamson, Junior L.; and Sikkema, Andrew J., to Dow Chemical Company, The. Transparent interpolymers of a rubber acrylonitrile and tert.-alkyl styrenes. 3,426,103, 2-4-69, Cl. 260-880.
Hall, Richard W., to Barnes Engineering Company. Method of alignment of concave parabolic reflective opties. 3,471,237, 10-7-69, Cl. 356-72.
Hall, Robert Arthur: *See*—
Ferguson, Ian; Hall, Robert Arthur; and Park, Joseph,3,458,458.
Hall, Robert D.: *See*—
Atalla, Martin M.; Archer, Robert J.; Hall, Robert D.; and Engelman, Reinhart W. H.,3,422,289.
Hall, Robert D., to Sinclair Research, Inc. Stripping operation without overhead reflux and the control of the water content in the system. 3,442,767, 5-6-69, Cl. 203-2.
Hall, Robert E.: *See*—
Drew, Howard F.; and Hall, Robert E.,3,441,508.
Drew, Howard F.; and Hall, Robert E.,3,441,611.
Hall, Robert E.; Kessler, Adriaan; and McLain, Aubrey R., to Procter & Gamble Company, The. Process for the preparation of phosphonium salts and phosphine oxides starting with aluminum trialkyl. 3,459,808, 8-5-69, Cl. 260-606.5
Hall, Robert Lee. Fruit harvesting apparatus. 3,439,481, 4-22-69, Cl. 56-328.
Hall, Robert M.: *See*—
Eady, Edsell M., 3,467,270.
Hall, Robert M. Pneumatically driven surgical instrument and control therefor. 3,423,068, 1-21-69, Cl. 253-2.
Hall, Robert M. Rotary lateral osteal cutting bit. 3,461,875, 8-19-69, Cl. 128-310.
Hall, Robert M. Pneumatically driven surgical instrument. 3,472,323, 10-14-69, Cl. 173-163.
Hall, Robert N.; and Tiemann, Jerome J., to General Electric Company. Method of making a high frequency transistor structure. 3,457,631, 7-29-69, Cl. 29-578.
Hall, Roger D.: *See*—
Clasby, David N.; and Hall, Roger D.,3,441,937.
Hall, Samuel, Jr., to Plastic Container Corporation. Safety medicine bottle closure. 3,473,681, 10-21-69, Cl. 215-9.
Hall Ski-Lift Company, Inc.: *See*—
Savage, Phillip D., 3,486,178.
Hall, Stanley A.: *See*—
Clark, William H.; and Hall, Stanley A.,3,434,187.
Hall, Steve, to Ohio Knife Company, The. Automatic grinding wheel dresser. 3,429,305, 2-25-69, Cl. 125-11.
Hall Textiles(Mansfield) Limited: *See*—
Hall, William H., 3,441,181.
Hall, Theodore W., to General Electric Company. Combination discharge counter and grading current measuring means for a lightning assester. 3,469,188, 9-23-69, Cl. 324-102.
Hall, Thomas N., to United States of America, Navy. Preparation of carbonate esters. 3,431,290, 3-4-69, Cl. 260-463.
Hall, Walter L., to General Electric Company. Process for the chlorination of aromatic compounds. 3,479,409, 11-18-69, Cl. 260-612.
Hall, Warren S.; and Ross, Edward F., to Phillips Petroleum Company. Curing and extruding elastomeric block copolymers. 3,440,304, 4-22-69, Cl. 260-880.
Hall, Webster F.: *See*—
Cunningham, James J.; Hall, Webster F.; and Myers, Allen J.,3,466,023.
Hall, William B., to Radio Corporation of America. Method of making a vapor device. 3,419,950, 1-7-69, Cl. 29-422.
Hall, William B., to Crouse-Hinds Company. Lighting unit. 3,433,941, 3-18-69, Cl. 240-41.36
Hall, William B.: *See*—
Block, Fred G.; and Hall, William B.,3,426,220.
Hall, William C.; Barker, Theodore R., II; and Hassell, Leigh D., Jr., to United States of America, Atomic Energy Commission. Radioactive waste removal method. 3,448,859, 6-10-69, Cl. 210-66.
Hall, William G., to Bell Telephone Laboratories, Incorporated. Telephone conference circuit. 3,420,959, 1-7-69, Cl. 179-18.
Hall, William H., to Hall Textiles(Mansfield) Limited. Apparatus for use in examining and turning garments. 3,441,181, 4-29-69, Cl. 223-43.
Hall, William R.: *See*—
Jordan, Bertram L.; Mitchell, John D.; Harrington, Joseph J.; Griffin, Charles B.; and Hall, William R.,3,482,614.
Hall-Toledo Corporation: *See*—
Pope, Joseph I.; Rickert, Paul E.; and Wilkinson, Robert R., 3,443,399.
Hallada, Donald Paul, to Du Pont de Nemours, E. I., and Company. Process for the dyeing of anionic polymeric synthetic textiles and blends with cellulose with basic dye bases. 3,473,881, 10-21-69, Cl. 8-21.
Hallaman, Allan D., to Goodrich, B. F., Company, The. Traction device. 3,464,743, 9-2-69, Cl. 305-35.
Hallauer, William J.; and Potts, Bill L., to Ford Motor Company. Method for manufacturing an electrode. 3,431,614, 3-11-69, Cl. 29-25.12
Hallauer, William J.; and Romine, Donald J., to Ford Motor Company. Spark plug having a short tip center electrode. 3,452,235, 6-24-69, Cl. 313-136.
Hallay, Alexander R., to General Electric Company. Impulse starting and operating circuit for gas discharge lamps. 3,476,977, 11-4-69, Cl. 315-183.
Hallberg, John E., to Mac Bee Engineering Corporation. Solenoid valve assembly. 3,420,496, 1-7-69, Cl. 251-141.
Hallberg, Knut Ivar, to AB Akerlund & Rausing. Bed and cylinder rotogravure test press with web feed. 3,486,445, 12-30-69, Cl. 101-158.
Halleck, Frank E., to Pillsbury Company, The. Paint composition containing polysaccharides. 3,447,940, 6-3-69, Cl. 106-162.
Halleck, Frank E.; and Smith, Fred, to Pillsbury Company, The. Process for preparing gentiobiose. 3,423,288, 1-21-69, Cl. 195-31.
Hallee, Lawrence P., to Stone & Webster Engineering Corporation. Hydrocarbon process. 3,487,121, 12-30-69, Cl. 260-683.
Hallen, Alf Eskil. Ship's derrick for container handling. 3,435,960, 4-1-69, Cl. 212-3.
Hallen, Jan-Ake: *See*—
Arlers, Sven Anders; and Hallen, Jan-Ake,3,473,226.
Hallenbeck, Bennett L., to Sybron Corporation. Electrostatically shielded indicator. 3,441,852, 4-29-69, Cl. 324-156.
Hallenburg, James K., to Schlumberger Technology Corporation. Borehole logging technique. 3,435,629, 4-1-69, Cl. 62-259.
Hallene, Alan M.; Holuba, Henry J.; and Drexler, John J., to Montgomery Elevator Company. Elevator door control. 3,450,232, 6-17-69, Cl. 187-61.
Haller, Herbert C., to Appleton Wire Works Corporation. Seam construction with heat shrinkable loop elements. 3,436,041, 4-1-69, Cl. 245-10.
Haller, James Gilbert. Aesthetic illuminating device. 3,434,789, 3-25-69, Cl. 431-126.
Haller, James R., to Minnesota Mining and Manufacturing Company. Process of making thick polyimide structures. 3,428,602, 2-18-69, Cl. 260-47.
Haller, John: *See*—
Feighofen, Hans, 3,433,514.
Haller, John, to Federal-Mogul Corporation, mesne. Composite sintered powdered material workpiece. 3,482,865, 12-9-69, Cl. 287-189.36
Haller, Max, to Aktiengesellschaft Brown, Boveri & Cie. Diode controlled exciter circuit for synchronous motors. 3,461,368, 8-12-69, Cl. 318-192.
Haller, Richard. Overload clutch. 3,454,144, 7-8-69, Cl. 192-56.
Haller, Samuel L.: *See*—
Sosnowski, Louis J., Jr.; and Haller, Samuel L.,3,448,491.
Haller, Ulrich: *See*—
Ohnsorge, Horst; and Haller, Ulrich,3,458,654.
Haller, Willi: *See*—
Faude, Rudolf; Haller, Willi; and Hengstler, Heinz,3,436,530.
Haller, Willi; and Faude, Rudolf, to Hecon Corporation, mesne. Monitoring means. 3,441,719, 4-29-69, Cl. 235-92.

Hallerbach, Dieter, to Richardson-Merrell Inc. Dispensing container. 3,450,252, 617-69, Cl. 206-42.
Hallesy, Harold Walter, to Boeing Company, The. Method of making a tube fitting. 3,474,519, 10-28-69, Cl. 29-432.
Hallett, Glenn F.: *See*—
Furlong, Donn B.; Hallett, Glenn F.; and Kane, Warren F.,3,468,521.
Halleux, Hubert; and Masurel, Michel, to Societe Alsacienne de Constructions Mecaniques de Mulhouse, and Brevets et Applications Textiles Brevatex. Mixing textile fibre slivers. 3,421,186, 1-14-69, Cl. 19-243.
Halley, John W. Web folding device and method. 3,442,504, 5-6-69, Cl. 270-86.
Hallgreen, Knud Julius, to Danfoss A/S. Electrical flame ignition and supervising apparatus. 3,432,246, 3-11-69, Cl. 431-27.
Hallgren, Bo Erik: *See*—
Brohult, Astrid Helena; Brohult, Sven Fritiof Abraham; Hallgren, Bo Erik; and Brohult, Johan Axel,3,432,602.
Hallgren, Charles G., to Keystone Consolidated Industries, Inc. Garage door locks. 3,452,564, 7-1-69, Cl. 70-452.
Halliburton Company: *See*—
Baker, Eugene E., 3,481,397.
Barrington, Burchus Q., 3,435,897.
Barrington, Burchus Q.; and Edwards, Arnold G., 3,456,726.
Brown, Norman F., 3,479,006.
Clement, Larry C.; Hammand, Jack; Hulme, Jack R.; and Zimmerman, Carl W., 3,425,274.
Dobkins, Joe W., 3,444,965.
Emery, Robert B.; and Homrig, Horace J., 3,424,504.
Frazier, Bruce J., 3,430,919.
Freeman, Norman L., Jr.; and Frazier, Bruce J., 3,480,331.
Hearn, Hosea P., 3,463,228.
Homrig, Horace J., 3,430,801.
Homrig, Horace J., 3,433,071.
Hyde, Walter E.; Farley, David L.; and Holden, John C., 3,422,900.
Johnson, Billy J.; Totty, Kenneth D.; and Young, Bill M.; 3,437,145.
Kinney, Richard J., 3,468,502.
Land, John R.; and Pittman, Forrest C., 3,459,354.
Land, John R.; and Moore, Paul A., 3,464,885.
Love, Robert G., 3,431,785.
Love, Robert G., 3,478,594.
McLaughlin, Homer C.; and Ramos, Joseph, 3,435,899.
McLaughlin, Homer C., 3,464,494.
Mitchell, Allison S., 3,436,261.
Moeller, R. E.; Love, Robert G.; and Pittman, Forrest C., 3,446,667.
O'Loughlin, Bernard T.; and Tindell, William A., Jr., 3,432,151.
Olson, Cleo C.; and Blevins, John B., 3,459,264.
Perra, Frank M., 3,479,586.
Robirds, Richard W.; and Mason, John F., 3,470,821.
Roth, Morris, 3,430,575.
Seay, Orum E., 3,427,652.
Seay, Orum E., 3,464,366.
Stephenson, Jack G.; and Abbott, Robert E., 3,451,561.
Stogner, Joel M., 3,474,734.
Taylor, Bill G.; and Colomb, Glenn T., 3,463,460.
Turja, Richard H., 3,449,517.
Walton, John F., 3,477,020.
Wilson, Robert O.; and Lorenzino, Paul, Jr., 3,434,046.
Halliday, David: *See*—
Mumford, Howard; Smith, Peter William; and Halliday, David,3,452,294.
Halliday, Gerald H. Steerable marine drive. 3,486,478, 12-30-69, Cl. 115-35.
Halliday, Iain M. D., to United Steel Companies Limited, The. Apparatus for continuous casting of steel utilizing a closed chamber between a tundish and a reciprocatable mold. 3,482,621, 12-9-69, Cl. 164-281.
Halling, Michael A., to United States of America, Navy. Arming and safety mechanism for a drag chute retarded bomb. 3,425,353, 2-4-69, Cl. 102-76.
Halliwell, Ronald Harry, to Du Pont de Nemours, E. I., and Company. Process for the purification of formaldehyde. 3,436,422, 4-1-69, Cl. 260-606.
Halliwell, Walter; and Pitts, Frank, to Magnesium Elektron Limited. Steam raising boilers and process for improving thermal efficiencies of such boilers. 3,430,610, 3-4-69, Cl. 122-479.
Halliwill, Eugene S.: *See*—
Bixby, Leon C.; and Halliwill, Eugene S.,3,460,460.
Hallman, Henry R.: *See*—
Sichel, Leonard H., Jr.; Hallman, Henry R.; and Marra, Thomas,3,482,214.
Hallman, Newt M., to Universal Oil Products Company. Hydrogenation of benzene to cyclohexane. 3,428,696, 2-18-69, Cl. 260-667.
Hallman, Newt M., to Universal Oil Products Company. Method for converting hydrocarbons. 3,429,803, 2-25-69, Cl. 208-108.
Hallman, Newt M.; and Parker, Robin J., to Universal Oil Products Company. Plural stage hydrorefining of a naphtha- containing full-boiling range feedstock. 3,481,864, 12-2-69, Cl. 208-210.
Hallman, Newt M.: *See*—
Storch, Dana H.; and Hallman, Newt M.,3,431,195.
Hallman, Robert W.: *See*—
Teeg, Robert O.; and Hallman, Robert W.,3,438,022.
Teeg, Robert O.; and Hallman, Robert W.,3,455,724.
Hallmann, Hermann, to Huwil-Werke, Hugo Willach & Sohne. Magnetically operating lock. 3,421,348, 1-14-69, Cl. 70-276.
Hallmark Cards, Incorporated: *See*—
Manning, Shannon L., 3,441,127.
Hallmark, Clarence, deceased0 (by Hallmark, Francina; administratrix). Pliers. 3,446,102, 5-27-69, Cl. 81-369.
Hallmark, Francina: *See*—
Hallmark, Clarence,3,446,102.
Hallmark, Ronald J. Prefabricated sail kit. 3,459,149, 8-5-69, Cl. 114-103.
Hallock, David D.; and Dain, Harvey W., to Hughes Aircraft Company. Ion laser starting circuit. 3,453,490, 7-1-69, Cl. 315-170.
Hallock, Edward C., to Midland Engineering & Machinery Company. Expansion joint covers. 3,435,574, 4-1-69, Cl. 52-278.
Hallock, Robert L. Tapered sheet metal nail. 3,466,967, 9-16-69, Cl. 85-11.
Hallonquist, Earland G.; and Honnige, Manfred M., to MacMillan Bloedel Limited. Process of stabilizing particleboard surfaces by treatment with water solutions of curable resins. 3,428,477, 2-18-69, Cl. 117-65.2
Halloran, James A.: *See*—
Gottzmann, Christian E.; Halloran, James A.; and Wilson, Fred A.,3,456,595.
Halloran, John J., Jr.: *See*—
Andresen, Lorenz J.; and Halloran, John J., Jr.,3,428,247.
Andresen, Lorenz J.; and Halloran, John J., Jr.,3,428,248.
Halloran, Thomas F., to Bell Telephone Laboratories, Incorporated. Fire retardant composition and elements coated therewith. 3,487,349, 12-30-69, Cl. 338-264.
Halls, Gordon Allan: *See*—
Malley, Harry Hartley; and Halls, Gordon Allan,3,427,001.
Halls, James Henry Collins, to Schweitzer Equipment Company. Paint spray booths. 3,421,293, 1-14-69, Cl. 55-223.
Hallse, Robert L.: *See*—
Colburn, Steven C.; Hallse, Robert L.; Matsuda, Hisashi; and Mayhall, Joel O.,3,481,010.
Hallstedt, Paul, to American Seating Company. Kneelers. 3,445,136, 5-20-69, Cl. 297-426.
Hallstrom, James R.: *See*—
Lopez, John A.; and Hallstrom, James R.,3,446,762.
Hallstrom, James R.; and Lopez, John A., to Shell Oil Company. Paint compositions comprising epoxy resin ester, pigment and glass fibers or polypropylene powder. 3,480,577, 11-25-69, Cl. 260-23.
Hallstrom, Olof Henrik; and Fredholm, Gunnar Ivar, to AB Vibrasug. Device for cleaning and disinfecting. 3,482,931, 12-9-69, Cl. 21-91.
Hallum, Gyda. Automated bathing facility. 3,483,572, 12-16-69, Cl. 4-145.
Hallwood, Harry, to New England Realty Co., mesne. Moisture detection system for conduits. 3,426,341, 2-4-69, Cl. 340-235.
Hallworth, Stanley K., to Air Reduction Company, Incorporated. Casing valve assembly. 3,453,964, 7-8-69, Cl. 103-87.
Halm Instrument Co. Inc.: *See*—
Konazewski, Clement R., 3,423,084.
Halm, Richard. Magnetic make and break igniter. 3,424,950, 1-28-69, Cl. 317-93.
Halm, Richard. Gas lighter with electric spark ignition. 3,442,598, 5-6-69, Cl. 431-255.
Halm, Richard. Electromagnetic ignition device, particularly for lighters. 3,444,435, 5-13-69, Cl. 317-81.
Halmar Electronics, Incorporated: *See*—
Povenmire, Kenneth M.; and Clanin, Marshall D., 3,430,125.
Halomet AG: *See*—
Nowak, Rudolf; and Schuster, Wilhelm, 3,466,169.
Halonen, Joseph. Steam and hydrotherapy system and apparatus. 3,463,160, 8-26-69, Cl. 128-368.
Halota, Franciszek: *See*—
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Halpaap, Herbert: *See*—
Kramer, Josef; Freisberg, Karl-Otto; and Halpaap, Herbert,3,462,455.
Kramer, Josef; Halpaap, Herbert; and Freisberg, Karl-Otto,3,484,448.
Kramer, Josef; Irmscher, Klaus; Halpaap, Herbert; and Freibsberg, Karl-Otto,3,433,805.
Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert,3,450,717.

Halper, Walter M.; and Moss, Fred Dudley, to Shell Oil Company. Process for preparation of oil extended polyisoprene latex. 3,438,920, 4-15-69, Cl. 260-23.7
Halper, Walter M.; York, Roger F.; and Moss, Fred Dudley, to Shell Oil Company. Process for polystyrene latex agglomeration. 3,459,693, 8-5-69, Cl. 260-23.
Halperin, Bernard I.: *See*—
Champ, Robert B.; and Halperin, Bernard I.,3,427,165.
Haining, Frank W.; Halperin, Bernard I.; and Thompson, James O.,3,421,895.
Halperin, Bernard I., to International Business Machines Corporation. Diazotype materials and methods for producing diazotype images. 3,427,162, 2-11-69, Cl. 96-49.
Halperin, Bernard I., to International Business Machines Corporation. Diazotype materials and methods for producing diazotype images. 3,427,163, 2-11-69, Cl. 96-49.
Halperin, Bernard I.; and Thompson, James O., to International Business Machines Corporation. Diazotype materials and methods for producing diazotype images. 3,427,164, 2-11-69, Cl. 96-49.
Halperin, Bernard I.; and Thompson, James O., to International Business Machines Corporation. Diazotype materials. 3,464,823, 9-2-69, Cl. 96-49.
Halperin, Edward B., to Perin Products Corporation. Calendar attachment for telephones. 3,469,336, 9-30-69, Cl. 40-336.
Halperin, Jack S. Seat belt controlled motor starter system. 3,426,864, 2-11-69, Cl. 180-82.
Halpern, Alfred, to Synergistics, Inc. Compositions and methods for tranquilization employing salts of N-morpholine ethanol. 3,422,191, 1-14-69, Cl. 424-232.
Halpern, Alfred, to Synergistics, Inc. Aluminum propionate double salts and their preparation. 3,449,391, 6-10-69, Cl. 260-448.
Halpern, Alfred. Dihydroquinidine galacturonates. 3,479,359, 11-18-69, Cl. 260-284.
Halpern, Alfred; Sackler, Mortimer D.; and Sackler, Raymond R. Pharmaceutical compositions of ammoniated mercury salicylate and methods for their use. 3,471,617, 10-7-69, Cl. 424-230.
Halpern, Alfred: *See*—
Sackler, Mortimer D.; and Halpern, Alfred,3,452,022.
Halpern, Allan S., to General Instruments Corporation. Method for trimming cermet resistors. 3,457,637, 7-29-69, Cl. 29-620.
Halpern, Benjamin David; and Semmelman, John O., to Dentists' Supply Company of New York, The. Porcelain and resin tooth with silicon bonding agent. 3,423,828, 1-28-69, Cl. 32-8.
Halpern, Benjamin David; and Semmelman, John O., to Dentists' Supply Company of New York, The. Tooth structure including means for chemically bonding diverse materials together. 3,423,829, 1-28-69, Cl. 32-8.
Halpern, Benjamin David; and Semmelman, John O., to Dentists' Supply Company of New York, The. Porcelain and resin tooth with silicon bonding agent. 3,423,830, 1-28-69, Cl. 32-8.
Halpern, Benjamin D., to Borden Company, The. Cyanoalkylated hydroxyalkylated polyvinyl alcohol and derivatives. 3,432,512, 3-11-69, Cl. 260-91.3
Halpern, Ernst, to Williamsburg Steel Products Company. Door hanger and track construction. 3,425,162, 2-4-69, Cl. 49-425.
Halpern, Ernst, to Williamsburg Steel Products Company. Adjustable support. 3,431,690, 3-11-69, Cl. 52-204.
Halpern, Ernst, to Williamsburg Steel Products Company. Door support and guidance mechanism. 3,436,864, 4-8-69, Cl. 49-425.
Halpern, Louis. Shower attachment. 3,465,968, 9-9-69, Cl. 239-504.
Halpern, Modecai J.: *See*—
Adlhart, Otto J.; Halpern, Modecai J.; and Shields, Hugh A.,3,453,149.
Halpern, Otto, to Syntex Corporation. Process for the preparation of 5α-bromo 6β- hydroxy steroids. 3,452,003, 6-24-69, Cl. 260-239.55
Halpern, Otto, to Syntex Corporation. Process for the preparation of steriods and novel intermediates thereof. 3,475,464, 10-28-69, Cl. 260-397.4
Halpern, Peter H., to Melpar, Inc. Synthesis and wave generation with compactly carried waveforms. 3,470,468, 9-30-69, Cl. 324-77.
Halpern, Stephen J.: *See*—
Brothman, Abraham; Bruckner, Alan J.; Halpern, Stephen J.; and Yanis, Conrad,3,456,163.
Brothman, Abraham; Halpern, Stephen J.; Reiser, Richard D; Cuddeback, Bruce A.; and Miller, Allen H.,3,449,716.
Halpert, Abby, to Halvin Products Co., Inc. Aquarium filter device. 3,472,381, 10-14-69, Cl. 210-169.
Halpin, Donald A., to Ingersoll-Rand Company. Self-aligning cover for access openings. 3,454,184, 7-8-69, Cl. 220-46.
Halprin, Sol; and Smith, Morris A., to Twentieth Century-Fox Film Corporation. Method and apparatus for efficiently segregating unwanted film prior to processing. 3,451,748, 6-24-69, Cl. 352-38.
Hals, Finn A., to Avco Corporation. Method of supplying electric power and thermal fixation of nitrogen. 3,439,196, 4-15-69, Cl. 310-11.
Hals, Finn A., to Avco Corporation. Means for and method of heating gases for magnetohydrodynamic devices. 3,449,602, 6-10-69, Cl. 310-11.
Halsall, Vincent Michael; and Hennen, Roy Erving, to Globe-Union Inc. Battery construction. 3,443,995, 5-13-69, Cl. 136-79.
Halseth, Evelyn J. Refrigerative dish. 3,429,141, 2-25-69, Cl. 62-372.
Halsey, George H., to McCreary Tire & Rubber Company. Protector for casings, pipes and other cylindrical objects. 3,485,271, 12-23-69, Cl. 138-96.
Halsey, Homer P., to Reserve Mining Company. Automatic iron ore assayer. 3,433,057, 3-18-69, Cl. 73-61.
Halsey, Homer P., to Reserve Mining Company. Maximizing control system. 3,443,692, 5-13-69, Cl. 210-97.
Halsmer, Joseph L. Dual engine starting clutch. 3,470,961, 10-7-69, Cl. 170-135.25
Halstead, Donald B. Strip packaging machine for nails and other similar articles. 3,432,985, 3-18-69, Cl. 53-140.
Halstead, Fred E.; and Mitchell, George A., to Mitchell, George A., Company. Tube pointing apparatus. 3,436,949, 4-8-69, Cl. 72-402.
Halstead, Harold A., Jr.: *See*—
Halstead, Robert E.; and Halstead, Harold A., Jr.,3,441,309.
Halstead, Jesse J., to General Dynamics Corporation. Communication coding system. 3,463,873, 8-26-69, Cl. 178-5.1
Halstead, John O.: *See*—
Heron, Gordon F.; Halstead, John O.; and Gettins, Robert B.,3,449,227.
Heron, Gordon F.; and Halstead, John Outram,3,449,230.
Halstead, Marian. Body control or foundation garments. 3,467,106, 9-16-69, Cl. 128-431.
Halstead, Robert E.; and Halstead, Harold A., Jr., to Novelty Carriage Works, Inc. Partitioning apparatus for automobiles. 3,441,309, 4-29-69, Cl. 296-24.
Halstenberg, Reynold V., to North American Rockwell Corporation. Stabilization-orientation system. 3,476,129, 11-4-69, Cl. 137-38.
Halter, Harold P. Reinforced flexible bumper assembly. 3,473,836, 10-21-69, Cl. 293-60.
Halterman, James W.: *See*—
Hoke, Howard L.; and Halterman, James W.,3,466,069.
Halterman, James W.; and Hoke, Howard L., to Dresser Industries, Inc. Gas clamp with inside spanner. 3,470,916, 10-7-69, Cl. 138-99.
Haluch, Leonard M.: *See*—
Rudnick, Gerald L.; and Haluch, Leonard M.,3,447,269.
Halus, Michael N., to Sylvania Electric Products, Inc. Junction type semiconductor optical discriminator. 3,484,663, 12-16-69, Cl. 317-235.
Haluska, Lawrence. Portable gun rack. 3,477,586, 11-11-69, Cl. 211-64.
Haluska, Loren A., to Dow Corning Corporation. Fluorinated organosilicon compounds. 3,458,554, 7-29-69, Cl. 260-448.2
Halvajian, Edward M. Combination impact cushioning bumper and automatic roadway brake. 3,472,332, 10-14-69, Cl. 180-93.
Halversen, Roy A., to Hooker Chemical Corporation. Composition and process for producing an electrically resistant coating on ferrous surfaces. 3,421,949, 1-14-69, Cl. 148-6.2
Halverson, Frederick: *See*—
Freeman, Mark Phillips; and Halverson, Frederick,3,473,027.
Halverson, Richard O., to Scribner, Albert W., and Halvar Associates. Roll feed clutch. 3,464,279, 9-2-69, Cl. 74-126.
Halverson, Richard P.: *See*—
Constantinides, Christos T.; and Halverson, Richard P.,3,484,766.
Halverson, Steven: *See*—
Kastner, Jacob; and Halverson, Steven,3,448,613.
Halvin Products Co., Inc.: *See*—
Halpert, Abby, 3,472,381.
Halvorsen, Jack L.: *See*—
Greenwall, Robert A., Jr.; and Halvorsen, Jack L.,3,467,922.
Halwas, Larry E.; and Behrens, Robert L., to Applied Power Industries, Inc. Power limiter. 3,450,054, 6-17-69, Cl. 103-42.
Ham, Anna B.: *See*—
Ferro, Patrick V.; and Ham, Anna B.,3,436,187.
Ham, Coy S.; Raub, Lyly; Joyce, Jack E.; and Lozano, Robert, to Inland Steel Company. Tin plate treating process to improve corrosion resistance. 3,481,841, 12-2-69, Cl. 204-37.
Ham, Donald M., to General Electric Company. Reset mechanism for maximum demand indicating meter. 3,423,019, 1-21-69, Cl. 235-144.
Ham, Donald M.; and Taft, William E., to General Electric Company. Take-up totalizing relay. 3,434,659, 3-25-69, Cl. 235-91.
Ham, Donald M.; and Taylor, Clifton E., to General Electric Company. Interval timer. 3,443,042, 5-6-69, Cl. 200-38.
Ham, Edward J.: *See*—
Harper, Walter J.; and Ham, Edward J.,3,460,986.
Ham, George E., Jr.: *See*—
Smith, Wayne E.; Anspon, Harry D.; Ham, George E., Jr.; and Alwani, Dru W.,3,474,062.
Bond, George C.; Ham, George E.; and Hamilton, Dallas E.,3,424,790.
Coker, William P.; and Ham, George E.,3,462,493.
Ham, George E., to Gulf Oil Corporation, mesne. Foamable polymer composition and process of foaming same. 3,484,393, 12-16-69, Cl. 260-2.5

Ham, George E.; and Phillips, Prella M., to Dow Chemical Company, The. Process for preparing phenylalkylamines by catalytic hydrogenation of aziridines. 3,444,201, 5-13-69, Cl. 260-570.8
Ham, James H., Jr., to Bell Telephone Laboratories, Incorporated. Code transmitter. 3,479,470, 11-18-69, Cl. 179-90.
Ham, John Rickels. Identification tag for livestock animals. 3,461,587, 8-19-69, Cl. 40-300.
Hamac-Hansella Gesellschaft mit beschrankter Haftung: *See*—
Anders, Gerhard, 3,420,156.
Hamada Printing Press Mfg., Co., Ltd.: *See*—
Hirose, Minoru; Kishioka, Taneji; and Shibanuma, Hajime, 3,442,186.
Ishii, Toshio, 3,434,415.
Hamada, Takaki: *See*—
Ito, Ken; Kaminaka, Hiroshi; Hamada, Takaki; and Kuruma, Hiroshi,3,484,491.
Hamada, Yoshio; and Yoshino, Motohisa, to Takeda Chemical Industries, Ltd. Increasing egg production in poultry by administering poultry feeding thiamine derivatives and poultry feed compositions containing said derivatives. 3,439,095, 4-15-69, Cl. 424-255.
Hamada, Yoshitsugu, to Yanmar Diesel Engine Co., Ltd. Intake system for rotary piston internal combustion engine. 3,424,136, 1-28-69, Cl. 123-8.
Hamada, Yoshitsugu; Imai, Teruhiro; Maeda, Yukio; and Tsuchii, Kimitaka, to Yanmar Diesel Engine Co., Ltd. Control device for rotary piston engine. 3,485,219, 12-23-69, Cl. 123-8.
Hamahata, Sinichi, to Kanegafuchi Boseki Kabushiki Kaisha. Apparatus for exchanging bobbins in textile machine. 3,433,006, 3-18-69, Cl. 57-53.
Hamaishi, Hideo E.: *See*—
Smillie, Winston B., 3,472,783.
Hamaker, John D. Thrust transmitting device. 3,447,389, 6-3-69, Cl. 74-44.
Hamalainen, Carl: *See*—
St.Mard, Hubert H.; Hamalainen, Carl; and Cooper, Albert S., Jr.,3,420,699.
Hamamoto, Yoshio: *See*—
Sumi, Hiroji; Takahi, Yukiyoshi; Kondo, Yasuhiko; Hamamoto, Yoshio; and Nishimura, Tsunehiko,3,426,135.
Hamamura, Tadashi: *See*—
Kosaka, Kenzo; and Hamamura, Tadashi,3,473,317.
Hamann, Frederic A. Envelope hopper. 3,446,497, 5-27-69, Cl. 271-32.
Hamann, Karl: *See*—
Feinauer, Roland; Hamann, Karl; and Jacobi, Manfred,3,480,647.
Hamann, Omer F., to Stromberg Datagraphix, Inc. Cathode ray tube with a removable face for space vehicles. 3,479,544, 11-18-69, Cl. 313-7.
Hamann, Rudolf: *See*—
Feiner, Alfred; Hamann, Rudolf; and Schopf, Clemens,3,429,130.
Hamashima, Yoshio: *See*—
Takamizawa, Akira; and Hamashima, Yoshio,3,454,576.
Hamatani, Masaru; and Kawauchi, Kanau, to Matsushita Electric Industrial Co., Ltd. Body warmer. 3,457,908, 7-29-69, Cl. 126-208.
Hamblen, David P., to Bausch & Lomb Incorporated. Gradient refractive index optical lenses. 3,486,808, 12-30-69, Cl. 350-175.
Hamblet Machine Co.: *See*—
Henry, Robert Randall, 3,425,289.
Hambleton, Brian, to Heath Tecna Corporation. Cargo pallet rail assembly. 3,452,958, 7-1-69, Cl. 248-346.
Hambleton, George E., to United States of America, Army. Resonant-line transistor amplifier. 3,428,911, 2-18-69, Cl. 330-31.
Hamblin, Ralph H.: *See*—
Russell, Carl D., 3,475,081.
Hamblin, Robert J. J., to Universal Oil Products Company. Method for converting heavy carbonaceous materials. 3,437,584, 4-8-69, Cl. 208-93.
Hambling, James Keith; and Grebbell, John, to British Petroleum Company Limited, The. Processes for pretreating a catalyst and for polymerizing lower alpha-olefins. 3,424,814, 1-28-69, Cl. 260-683.15
Hambling, James Keith; and Jones, John Robert, to British Petroleum Company Limited, The. Dimerisation process. 3,457,321, 7-22-69, Cl. 260-683.15
Hambling, James Keith; and Jones, John Robert, to British Petroleum Company Limited, The. Dimerisation process. 3,463,831, 8-26-69, Cl. 260-683.15
Hambling, James Keith; and Jones, John Robert, to British Petroleum Company Limited, The. Dimerisation process. 3,465,056, 9-2-69, Cl. 260-683.15
Hambling, James Keith; and Jones, John Robert, to British Petroleum Company Limited, The. Dimerisation process. 3,483,268, 12-9-69, Cl. 260-683.15
Hambling, James Keith; and Thomas, Ieuan Jenkin, to British Petroleum Company Limited, The. Process for the production of copolymers. 3,436,379, 4-1-69, Cl. 260-80.7
Hambling, Stewart Kevern, to Girling Limited. Spot-type disc brakes. 3,422,934, 1-21-69, Cl. 188-73.
Hambly, John Arthur, to Aluminium Laboratories Limited. Method of preparing spherical alumina hydrate from seeded aluminate liquor. 3,466,142, 9-9-69, Cl. 23-143.
Hambly, Wesley G.; and von Langendorff, Vitmar, to Trico Products Corporation. Windshield wiper arm. 3,433,513, 3-18-69, Cl. 287-53.
Hambor, John, to Atlantic Semiconductor, div of Aerological Research, Inc. Series rectifier stock and capacitor in shunt. 3,478,252, 11-11-69, Cl. 317-233.
Hamburg, Henry F.; and Fowler, Theron R. Alarm system for swimming pools and the like. 3,482,237, 12-2-69, Cl. 340-261.
Hamburger Flugzeugbau GmbH: *See*—
Bielefeldt, Ernst-August, 3,456,905.
Bielefeldt, Ernst-August, 3,478,989.
Buchholz, Klaus; and Hoose, Werner, 3,455,524.
Volkner, Wolfgang; Sonksen, Arno; and Schultz, Herbert, 3,420,476.
Weigel, Jurgen, 3,424,663.
Hamby, Charles H.: *See*—
Weitzel, Edward W.; and Hamby, Charles H.,3,476,581.
Hamby, Clayton B.: *See*—
Bordenca, Carl; Derfer, John Mentzer; and Hamby, Clayton B.,3,420,910.
Hamby, Drannan, to United States of America, Air Force. Solid electrolyte alkali metal voltaic cell. 3,437,524, 4-8-69, Cl. 136-83.
Hamby, J. W.; and Mills, Franky D. Tractor mounted rod weeder. 3,430,702, 3-4-69, Cl. 172-44.
Hamby, Robert L., 50% to Caughron, Sam M. Three-way vehicle mirror. 3,480,350, 11-25-69, Cl. 350-304.
Hamby, Tyler W., Jr.; and Patterson, Maurice M., to Shell Oil Company. Cleaning steam injection well tubing string in situ. 3,424,249, 1-28-69, Cl. 166-304.
Hamco Machines and Electronics Corporation: *See*—
Heinrich, Robert G., 3,432,973.
Hamdy, Mokhtar M.; and White, Howard S., to Archer-Daniels-Midland Company. Edible coating compositions and method for coating food. 3,471,303, 10-7-69, Cl. 99-166.
Hamdy, Mokhtar M.; and White, Howard S., to Archer-Daniels-Midland Company. Edible coating compositions. 3,471,304, 10-7-69, Cl. 99-166.
Hamed, Parviz; and McDonel, Everett T., to Goodrich, B. F., Company, The. EPDM polymer blend with building tack and green strength. 3,468,979, 9-23-69, Cl. 260-897.
Hamel, Carl, Spinn- und Zwirnereimaschinen AG: *See*—
Hamel, Edmund, 3,458,983.
Hamel, Conrad L.; Murphy, James P.; and Klink, John, to Standard Gage Company, Inc. Electronic dial indicator. 3,482,323, 12-9-69, Cl. 33-172.
Hamel, Edmund, to Hamel, Carl, Spinn- und Zwirnereimaschinen AG. Process and aparatus for twisting threads. 3,458,983, 8-5-69, Cl. 57-35.
Hamel, Edward E.; and Olsen, Robert E., to Aerojet-General Corporation. N, N-dinitramines of certain organic compounds and process. 3,428,667, 2-18-69, Cl. 260-467.
Hamel, Harold R.; and Dietz, Ernest W., to Pacific Electrical Company. Electrical contact strip. 3,439,315, 4-15-69, Cl. 339-242.
Hamel, William J.; and Potter, John J., Jr., to Union Carbide Corporation. Valve for selective withdrawal of liquid or vapor. 3,460,721, 8-12-69, Cl. 222-402.18
Hamel, William J.: *See*—
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O.,3,428,225.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O.,3,430,820.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O.,3,430,821.
Hamer, Edward A. G., to American Standard Inc. Semipermeable membrane cleaning means. 3,425,562, 2-4-69, Cl. 210-321.
Hamer, Edward A. G.: *See*—
Kalish, Robert L.; Kanyok, Anthony J.; Hulick, Warren E.; and Hamer, Edward A. G.,3,421,782.
Hamer, Geoffrey: *See*—
Hsu, Charles T.; and Hamer, Geoffrey,3,480,025.
Hamer, Morgan F.: *See*—
Decker, David L.; and Hamer, Morgan F.,3,435,347.
Hamer, Ronald, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Frequency synthesisers with stepwise changeable output frequencies. 3,427,561, 2-11-69, Cl. 331-19.
Hamermesh, Bernard: *See*—
Slattery, Jack C.; and Hamermesh, Bernard,3,446,068.
Hames, William A.: *See*—
Scheitlin, Thomas G.; Hames, William A.; and Koch, Alan J.,3,433,031.
Hamil, Henry F.: *See*—
Kurtz, Abraham N.; and Hamil, Henry F.,3,432,498.
Hamill, Dennis W.: *See*—
Kern, Edward L.; and Hamill, Dennis W.,3,463,666.

Hamill, Herbert R.: *See—*
Cecil, Tom A.; Gerstenmier, Harold J.; Hamill, Herbert R.; and Puskar, Victor,3,477,565.

Hamill, Ronald V.; and Murphy, Walter E., to United States of America, Army, and/or Administrator of the Federal Aviation Administration. Dynamic hit-width discriminator. 3,441,932, 4-29-69, Cl. 343-17.1

Hamilton, Alexander. Safety hoisting hook. 3,428,355, 2-18-69, Cl. 294-82.

Hamilton, Alexander: *See—*
Stewart, John Dewar; and Hamilton, Alexander,3,424,759.

Hamilton, Allen R., to Bendix Corporation, The, mesne. Power supply for ionic vacuum device. 3,433,550, 3-18-69, Cl. 316-28.

Hamilton, Allen R.; and Graczyk, Thadeus S., to Bendix Corporation, The, mesne. Ion pump. 3,429,501, 2-25-69, Cl. 230-1.

Hamilton, Billy E., to Big Three Industrial Gas & Equipment Co., Inc. Well sealing with atomized resin. 3,470,957, 10-7-69, Cl. 166-295.

Hamilton, Billy H.: *See—*
Embree, Milton L.; Hamilton, Billy H.; and Metzler, Clair G.,3,483,464.

Hamilton Caster & Mfg. Co., The: *See—*
Peter, Joseph E., 3,467,981.

Hamilton, Charles E., to Dow Chemical Company, The. Enhanced stripping of fugacious materials from aqueous dispersions. 3,475,282, 10-28-69, Cl. 203-49.

Hamilton, Charles E.; Teal, James L.; and Kelly, James A., to Dow Chemical Company, The. Oxidation of aqueous organic dispersions. 3,442,802, 5-6-69, Cl. 210-63.

Hamilton, Charles H., to North American Rockwell Corporation. Bonding of beryllium members. 3,478,416, 11-18-69, Cl. 29-498.

Hamilton, Clarence O., II, to Hamilton Cosco, Inc. Play pen. 3,474,472, 10-28-69, Cl. 5-98.

Hamilton, Clark H. Valve. 3,434,691, 3-25-69, Cl. 251-184.

Hamilton, Clyde L.: *See—*
Thuse, Erik; and Hamilton, Clyde L.,3,473,605.

Hamilton Company: *See—*
McGuckin, Melvin E., 3,463,339.
McKinney, Carlton B.; and Sheppard, William M., 3,463,012.

Hamilton Cosco, Inc.: *See—*
Bates, Donald L., 3,458,234.
Hamilton, Clarence O., II, 3,474,472.
Hamilton, John J.; and Schroer, Charles E., 3,429,449.
Moore, Donald L.; Fricke, Paul M., Jr.; and Spilman, Raymond R., 3,466,084.
Moore, Donald L.; Fricke, Paul M., Jr.; Tucker, William H.; and Spilman, Raymond R., 3,485,525.

Hamilton, Dallas E.: *See—*
Bond, George C.; Ham, George E.; and Hamilton, Dallas E.,3,424,790.

Hamilton, Donald A., to Xerox Corporation. Chemical package. 3,477,822, 11-11-69, Cl. 23-253.

Hamilton, Donald Arthur, to Xerox Corporation. Chemical package. 3,477,821, 11-11-69, Cl. 23-253.

Hamilton, Donald Arthur, to Xerox Corporation. Chemical package. 3,480,398, 11-25-69, Cl. 23-253.

Hamilton, Donald Arthur, to Xerox Corporation. Chemical package. 3,480,399, 11-25-69, Cl. 23-253.

Hamilton, Donald E.: *See—*
Fenner, Robert M.; and Hamilton, Donald E.,3,445,108.

Hamilton, Donald N.: *See—*
Cutter, Paul R.; and Hamilton, Donald N.,3,420,638.

Hamilton, Donald N.: *See—*
Cutter, Paul R.; and Hamilton, Donald N.,3,420,638.

Hamilton, Donald R.; and Malmberg, Paul R., to Westinghouse Electric Corporation. Light responsive phase shifting circuitry. 3,447,069, 5-27-69, Cl. 323-122.

Hamilton, Douglas D., 1/3 each to Canadian International Paper Company Quebec North Shore Paper Company, and Abitibi St. Anne Paper Ltd. Tree severing device. 3,482,611, 12-9-69, Cl. 144-3.

Hamilton, Douglas J., to General Electric Company. Memory sensing system. 3,484,758, 12-16-69, Cl. 340-174.

Hamilton, Douglas L. P. Cable terminal enclosure with grounding cross bar. 3,431,349, 3-4-69, Cl. 174-38.

Hamilton, Douglas L. P. Means securing a cable sheath to a grounding and supporting member. 3,435,126, 3-25-69, Cl. 174-78.

Hamilton, Edward E.: *See—*
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr.,3,423,677.

Hamilton, Ferris F. Airborne seismic exploration method and seismic apparatus having earth-penetrating means. 3,486,167, 12-23-69, Cl. 340-15.5

Hamilton-Fey, John, to International Computers and Tabulators Limited. Data transmission systems. 3,462,549, 8-19-69, Cl. 178-18.

Hamilton, George M., to McDowell-Wellman Engineering Company. Two-stage type gas producer. 3,454,382, 7-8-69, Cl. 48-76.

Hamilton, George V.: *See—*
LaCoste, Lucien J.B.; Clarkson, Henry N.; and Hamilton, George V.,3,474,672.

Hamilton, Gordon A., to Albemarle Paper Company. Shipping container. 3,438,482, 4-15-69, Cl. 206-46.

Hamilton, Harry A.; Mellvried, Howard G.; and Sebulsky, Raynor T., to Gulf Research & Development Company. Process for removing vanadium from catalysts. 3,461,064, 8-12-69, Cl. 208-213.

Hamilton, James E.: *See—*
Broadhead, James H.; and Hamilton, James E.,3,474,832.

Hamilton, James P.: *See—*
Lima, Daniel A.; and Hamilton, James P.,3,481,894.

Hamilton, James P., to FMC Corporation. Gelled tricresyl phosphates. 3,424,601, 1-28-69, Cl. 106-177.

Hamilton, James, to General Electric Company. Welding device. 3,431,388, 3-4-69, Cl. 219-86.

Hamilton, Jerome John, to Raytheon Company. Voltage jump klystron oscillator. 3,424,996, 1-28-69, Cl. 331-84.

Hamilton, Joel A., to Polaroid Corporation. Photographic film assemblage. 3,433,636, 3-18-69, Cl. 96-76.

Hamilton, Joel A.; Faro, Anthony E., Jr.; and Leitner, Joseph, to Mahaffy & Harder Engineering Company. Automatic packaging apparatus. 3,438,175, 4-15-69, Cl. 53-112.

Hamilton, Joel A.: *See—*
Mahaffy, Reid A.; and Hamilton, Joel A.,3,467,244.

Hamilton, John D., to Ford Motor Company. Liquid level gauge sender unit. 3,482,200, 12-2-69, Cl. 338-33.

Hamilton, John J.; and Schroer, Charles E., to Hamilton Cosco, Inc. Table rack. 3,429,449, 2-25-69, Cl. 211-27.

Hamilton, Joseph Portola; and Donald, Alexander. Connector for containers and package. 3,462,010, 8-19-69, Cl. 206-65.

Hamilton, Joseph R., to Lynch Corporation. Rotating deadplate mechanism. 3,449,104, 6-10-69, Cl. 65-181.

Hamilton Kettles Division of Brighton Corporation: *See—*
Rechtin, Clarence R., 3,482,823.

Hamilton, Lyle A., to Mobil Oil Corporation. Addition reactions to carbonyl compounds. 3,454,596, 7-8-69, Cl. 260-327.

Hamilton, Lyle A.; and Landis, Phillip S., to Mobil Oil Corporation. Production of aromatic nitriles from cyanogen halide and an aromatic compound using an alumino-silicate catalyst. 3,433,821, 3-18-69, Cl. 260-465.

Hamilton, Merrill V.; and Klahn, William R., to United States Steel Corporation. Roll mounting. 3,460,551, 8-12-69, Cl. 134-122.

Hamilton, Milon J.; Baigas, Joseph F., Jr.; Haynes, John T.; and Coates, Herbert W., to Kem-Wove Industries, Inc. Bendable, high loft, bonded, non-woven, textile fabric. 3,459,631, 8-5-69, Cl. 161-170.

Hamilton of Indiana, Inc.: *See—*
Nathan, Bernard; and Tate, Gary L., 3,432,028.

Hamilton, Richard Alexander. Body joint measuring device. 3,465,450, 9-9-69, Cl. 33-174.

Hamilton, Robert L.; and Quynn, Richard G., to Celanese Corporation. Production of dyed, shaped oxymethylene polymers. 3,433,861, 3-18-69, Cl. 264-78.

Hamilton, Robert W.: *See—*
McPherson, Wilbur A.; and Hamilton, Robert W.,3,446,486.

Hamilton, Roy C., to Rodpak Manufacturing Co. Seal. 3,464,708, 9-2-69, Cl. 277-151.

Hamilton, Stephen B., Jr., to General Electric Company. Methylation phenols. 3,446,856, 5-27-69, Cl. 260-620.

Hamilton, Stephen B., Jr., to General Electric Company. Selective vapor phase methylation of phenols. 3,479,410, 11-18-69, Cl. 260-621.

Hamilton, Thomas W. Pneumatic control devices. 3,437,102, 4-8-69, Cl. 137-83.

Hamilton Tool Company, The: *See—*
Huffman, Harold W., 3,476,631.

Hamilton, Vern E.: *See—*
Cannady, Samuel J.; Fisher, Donald C.; and Hamilton, Vern E.,3,449,053.

Hamilton, Vern E., to McDonnell Douglas Corporation, mesne. Apparatus for producing filter element. 3,453,957, 7-8-69, Cl. 101-269.

Hamilton Watch Company: *See—*
Cohen, Nathan, 3,446,007.
Eshleman, Ralph G.; and Farmer, James W., 3,428,763.
Klinck, John L., 3,474,618.
Martin, Vincent W.; and Lyczak, Henry A., 3,447,052.
McCullough, Robert E., 3,455,104.
Olasz, Joseph S., 3,425,130.
Olasz, Joseph S.; and Jackson, Roderick M., 3,483,627.
Prindell, Stuart M., Jr.; Perry, Malcolm R.; Martin, Vincent W.; and Fritsch, Daniel F., 3,479,815.
Rogers, Donald J.; and Van Horn, John A., 3,427,798.
Slaugh, James R., 3,431,721.
van Horn, John A., 3,425,211.
Yeagley, Clarence R., 3,444,815.

Hamilton, William Hauth: *See—*
Lawrence, James Clifton; and Hamilton, William Hauth,3,485,309.

Hamilton, William H.; and Allyn, Richard J., to Lawrence Manufacturing Company. Apparatus for forming inclined bores. 3,486,572, 12-30-69, Cl. 175-53.

Hamilton, William R.., to Baron-Blakeslee Incorporated. Degreasing, phosphatizing and cleaning apparatus. 3,424,177, 1-28-69, Cl. 134-96.
Hamilton, William W., Jr.: *See*—
Wallace, James B.; Hamilton, William W., Jr.; and Pigan, Edward A.,3,482,202.
Hamilton-Fey, John: *See*—
Ellis, Jonas; and Hamilton-Fey, John,3,420,166.
Hamilton-Skotch Corporation, The: *See*—
Piker, Herbert M., 3,467,562.
Hamisch, Paul H., Sr., to Monarch Marking System Company, The. Hand labeler. 3,440,123, 4-22-69, Cl. 156-384.
Hamlen, Robert P.; Nilson, Ronald R.; and Girard, Roland T., to General Electric Company. Gaseous fuel cell. 3,481,788, 12-2-69, Cl. 136-86.
Hamlin, Halley H., to United States of America, Navy, mesne. Barrel engine pistons. 3,434,397, 3-25-69, Cl. 92-71.
Hamlin, Halley H., to United States of America, Navy, mesne. Cylinder liner for barrel engine. 3,474,709, 10-28-69, Cl. 92-71.
Hamlin, James William: *See*—
Gasser, Clive Gordon; and Hamlin, James William,3,437,566.
Hamlin, Lewis W., to Hamlin Products, Incorporated. Portable electric cooker. 3,487,199, 12-30-69, Cl. 219-399.
Hamlin Products, Incorporated: *See*—
Hamlin, Lewis W., 3,487,199.
Rademacher, Thomas P., 3,420,218.
Rademacher, Thomas P., 3,455,554.
Hamlin, Robert G. Triangular bandage for relieving ingrown toenails. 3,464,408, 9-2-69, Cl. 128-81.
Hamlin-Stevens, Incorporated: *See*—
Lynge, Carl H., 3,480,461.
Hamline, Thomas M. Hook and line structure. 3,469,287, 9-30-69, Cl. 24-73.
Hamm, Douglas W.; and Niyper, Kenneth J., to Muskegon Piston Ring Company. Monorail piston ring. 3,442,519, 5-6-69, Cl. 277-140.
Hamm, Philip C., to Monsanto Company. Insect chemosterilant compositions and methods using formamidines. 3,458,634, 7-29-69, Cl. 424-269.
Hamm, Philip C.: *See*—
Olin, John F.; and Hamm, Philip C.,3,450,521.
Hammack, Calvin Miles. Method and apparatus for geometrical determinations. 3,445,847, 5-20-69, Cl. 343-112.
Hamman, Denver C.: *See*—
Schwartz, Natalie Pels; Voller, Norman L.; Hamman, Denver C.; and Chapman, Robert E.,3,465,926.
Hamman, Ingeborg: *See*—
Schicke, Hans Gerd; and Hamman, Ingeborg,3,478,029.
Hamman, Lyle J., to Eaton Stamping Company. Engine starter accessory. 3,437,083, 4-8-69, Cl. 123-179.
Hammand, Jack: *See*—
Clement, Larry C.; Hammand, Jack; Hulme, Jack R.; and Zimmerman, Carl W.,3,425,274.
Hammann, Ernst. Film cutting device. 3,427,913, 2-18-69, Cl. 83-176.
Hammann, Ingeborg: *See*—
Eitel, Alfred; and Hammann, Ingeborg,3,455,912.
Fest, Christa; and Hammann, Ingeborg,3,476,490.
Fest, Christa; Hammann, Ingeborg; Stendel, Wilhelm; and Flucke, Winfried,3,478,037.
Hausweiler, Arnold; Hammann, Ingeborg; and Behrenz, Wolfgang,3,470,236.
Schrader, Gerhard; Behrenz, Wolfgang; and Hammann, Ingeborg,3,470,229.
Hammann, Paul E.: *See*—
Gold, Harold E.; and Hammann, Paul E.,3,464,487.
Hammann, William C.: *See*—
Blake, Edward S.; and Hammann, William C.,3,451,061.
Hammann, William C.; and Schisla, Robert M., to Monsanto Company. Tractants and method of use. 3,440,894, 4-29-69, Cl. 74-200.
Hammann, William C.; and Schisla, Robert M., to Monsanto Company. Phenoxybiphenyl compounds. 3,471,574, 10-7-69, Cl. 260-613.
Hammar, Howard N.: *See*—
Rhees, Raymond C.; and Hammar, Howard N.,3,454,357.
Hammar, Stig E. H.: *See*—
Moren, Rolf Erhard; and Hammar, Stig E. H.,3,424,169.
Hammarlund, Bertil, to Allmanna Svenska Elektriska Aktiebolaget. Device for indicating faults in different parts of a direct current network, which parts are connected to each other. 3,421,052, 1-7-69, Cl. 317-26.
Hammarlund, Bertil, to Allmanna Svenska Elektriska Aktiebolaget. Means for controlling inverters. 3,447,063, 5-27-69, Cl. 321-5.
Hammarlund, Lars Arne: *See*—
Innings, Lars Sven Erik; and Hammarlund, Lars Arne,3,431,939.
Hammarskjold, Sven; and Lenne, Curt Yngve, to Aktiebolaget Bofors. Method of producing a means of exterminating warts. 3,467,747, 9-16-69, Cl. 424-81.
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John, to United States of America, Atomic Energy Commission. Dipole current lead for a plasma containment device. 3,441,775, 4-29-69, Cl. 313-231.
Hammel, Kemper Martel; and Cobaugh, Robert Franklin, to AMP Incorporated. Means for making electrical connections. 3,474,394, 10-21-69, Cl. 339-176.
Hammell, Kemper Martel, to AMP Incorporated. Multiple contact mounting wafer. 3,487,350, 12-30-69, Cl. 339-17.
Hammell, Kemper Martel; and Whitmoyer, Kenneth Leon, to AMP Incorporated. Interconnection system with precision terminal alignment. 3,467,944, 9-16-69, Cl. 339-125.
Hammell, Matthew: *See*—
Feldman, Jacob R.; Fischer, Valentine J.; Berkowitz, Lewis M.; and Hammell, Matthew,3,441,417.
Hammelmann, Paul. Nozzle head operating arrangement. 3,437,271, 4-8-69, Cl. 239-227.
Hammer, Edward E., to General Electric Company. Jacketed fluorescent lamp utilizing standard base plus spacer and wind cap. 3,453,470, 7-1-69, Cl. 313-25.
Hammer, Herman J., to Republic Steel Corporation. Eddy current inspection system. 3,422,346, 1-14-69, Cl. 324-40.
Hammer, Irving W., to International Telephone and Telegraph Corporation. Frequency scanning radar system with improved angular target detection. 3,444,555, 5-13-69, Cl. 343-16.
Hammer, Karl E.: *See*—
Chase, Albert J.; and Hammer, Karl E.,3,439,130.
Hammer-Lit G.m.b.H.: *See*—
Meseke, Curt Th.; and Winkler, Winfried, 3,430,754.
Hammerling, Goldie, 1/2 to Porter, Charles D. Means for preventing unauthorized cashing of checks. 3,455,576, 7-15-69, Cl. 283-7.
Hammerschmidt, Winrich: *See*—
Pfister, Rudolf; Sallmann, Alfred; and Hammerschmidt, Winrich,3,455,999.
Hammes, Wilhelm, to Mauser Kommandit-Gesellschaft. Closure. 3,480,169, 11-25-69, Cl. 215-40.
Hamming, Richard W., to Bell Telephone Laboratories, Incorporated. Remote controlled system for reducing distortion. 3,440,539, 4-22-69, Cl. 325-65.
Hammitt, Andrew G., to TRW Inc. Vapor-liquid cyclic MHD power conversion. 3,443,129, 5-6-69, Cl. 310-11.
Hammitt, Max M. Suspension system for a snow vehicle. 3,480,096, 11-25-69, Cl. 180-5.
Hammon, Edwin J., to Lempco Industrial, Inc. Die set shank construction. 3,452,633, 7-1-69, Cl. 83-637.
Hammond, Albert S., to Weyerhaeuser Company. Redry veneer drying method and apparatus. 3,434,221, 3-25-69, Cl. 34-6.
Hammond Corporation: *See*—
Ayres, William R., 3,474,181.
Haviland, Lyman J.; and Meinema, Herbert E., 3,469,135.
Kohls, Norman R., 3,465,088.
Kohls, Norman R.; Nykl, Clarence A., Jr.; and Ayres, William R., 3,480,718.
Laube, Hans, 3,463,868.
Schrecongost, Ray B., 3,435,123.
Schrecongost, Ray B.; and Ring, William C., 3,440,324.
Schreier, Wilford R., 3,422,376.
Young, Alan C., 3,452,145.
Hammond, Daniel O., Surgical retractor. 3,463,144, 8-26-69, Cl. 128-20.
Hammond, Donald L., to Hewlett-Packard Company, Quartz crystal temperature transducer. 3,423,609, 1-21-69, Cl. 310-9.5
Hammond, Earl J., to Houdaille Industries, Inc., mesne. Chuck construction. 3,451,686, 6-24-69, Cl. 279-51.
Hammond, Ellane B.: *See*—
Morley, Ervin W., 3,479,985.
Hammond, Gerald L.; to Precision Scientific Company, mesne. Fluid mixing device. 3,468,637, 9-23-69, Cl. 23-292.
Hammond, Gordon L., to United States of America, Navy. Self-cocking, high-speed gating shutter. 3,486,433, 12-30-69, Cl. 95-55.
Hammond Machinery Builders, Inc.: *See*—
Bell, Ramsay M., 3,448,023.
Krueger, Edward C., 3,461,059.
Sutton, Donald E., 3,440,933.
Sutton, Donald E., 3,450,618.
Hammond Organ Company: *See*—
Schrecongost, Ray B., 3,469,109.
Hammond, Robert H., to Gulf General Atomic Incorporated, mesne. Superconducting material. 3,449,092, 6-10-69, Cl. 29-194.
Hammond, Robert J., to V-M Corporation. Record playing mechanism. 3,429,580, 2-25-69, Cl. 274-23.
Hammond, Robert J., to V-M Corporation. Tape drive arrangement with self- aligning pressure roller. 3,438,558, 4-15-69, Cl. 226-191.
Hammond, Robert J., to V-M Corporation. Take-up reel drive system. 3,484,057, 12-16-69, Cl. 242-208.
Hammond, Theodore A.; and Summers, John D., to Ermanco Incorporated. Multi-speed conveyor. 3,468,408, 9-23-69, Cl. 198-110.

Hammonds, James C., to ACF Industries, Incorporated. Cushioned support structure for railway car. 3,479,969, 11-25-69, Cl. 105-368.
Hammonds, John E. Method and means for copying printed material. 3,485,696, 12-23-69, Cl. 156-249.
Hammtronics Systems, Inc.: *See*—
Kluck, James H., 3,448,232.
Hamner, Glen Porter: *See*—
Mattox, William Judson; and Hamner, Glen Porter,3,449,242.
Hamner, Glen Porter, to Esso Research and Engineering Company. Coke binder oils from dealkylated condensed aromatic tars. 3,440,163, 4-22-69, Cl. 208-40.
Hamon, Maurice. Flow nozzle with variable coefficient of efflux. 3,450,349, 6-17-69, Cl. 239-428.5
Hamon, Maurice. Cooling of liquids. 3,451,660, 6-24-69, Cl. 261-112.
Hamonds, Nathan, Jr. Cross-sectional determinant. 3,437,022, 4-8-69, Cl. 95-12.
Hamori, Julius Arpad; and Denes, Frank. Table extension for machine tool. 3,461,776, 8-19-69, Cl. 90-58.
Hamouz, George J.; and Zurek, James W., to International Harvester Company. Riding mower with forward and reverse belt drive. 3,477,439, 11-11-69, Cl. 180-70.
Hampden Engineering Company: *See*—
Flynn, Daniel M.; Bandoski, Stanley, Jr.; and Clow, William R., 3,473,041.
Hampel, Frederick J. E., to Techniservice Corporation. Textile strand treatment. 3,461,658, 8-19-69, Cl. 57-34.
Hampel, Frederick J. E.: *See*—
Irwin, Malcolm F.; and Hampel, Frederick J. E.,3,461,661.
Irwin, Malcolm F.; and Hampel, Frederick J. E.,3,474,615.
Hampel, Josef, to Ruthner Industrieplanungs-Aktiengesellschaft. Process and apparatus for treating a strip material with liquid. 3,473,962, 10-21-69, Cl. 134-15.
Hampel, Robert H.: *See*—
Whiteside, Walter D.; and Hampel, Robert H.,3,421,398.
Hampikian, Aram K.; and Biddy, Oscar D., Jr., to Corning Glass Works. Metallized semiconductor device with fired-on glaze consisting of 25-35% PbO, 10-15% B_2O_3, 5-10% Al_2O_3, and the balance SiO_2. 3,460,003, 8-5-69, Cl. 317-234.
Hamprecht, Guenther; Mohr, Rudolf; Fromm, Dieter; Schwarzmann, Matthias; and Vogel, Ludwig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cooling offgas obtained in the synthesis of melamine. 3,458,511, 7-29-69, Cl. 260-249.7
Hampson, Clinton W., to Clinton Silk Mill, Inc. Binder. 3,460,585, 8-12-69, Cl. 139-185.
Hampton, Brian Frank, to Electricity Council, The. Temperature-sensitive devices. 3,456,614, 7-22-69, Cl. 116-114.5
Hampton, Edward L., to Lear Siegler, Inc., mesne. Furnitue support assembly. 3,424,423, 1-28-69, Cl. 248-415.
Hampton, James F., to Dow Corning Corporation. Production of macrocyclic polysiloxanes. 3,465,016, 9-2-69, Cl. 260-448.2
Hampton, John L.: *See*—
Cheng, Jen-Pu; Hampton, John L.; and Wirtel, Arthur F.,3,481,870.
Hampton, John W., to Chevron Research Company. High dropping point aluminum grease. 3,476,684, 11-4-69, Cl. 252-33.6
Hampton, Willis: *See*—
Waltrip, Owen R., 3,480,529.
Hamren, Victor E., to Mechanized Science Seals, Inc. Rotary seal assembly. 3,457,795, 7-29-69, Cl. 74-17.8
Hamrick, Donald James, to Syndyne Corporation. Method of making thermocouple probe. 3,477,122, 11-11-69, Cl. 29-573.
Hamrick, James C., to Jet Line Products, Inc. Wall-mounted vacuum cleaner unit. 3,422,482, 1-21-69, Cl. 15-314.
Hamrick, James C., to J L Products Incorporated. Vacuum cleaning method. 3,464,858, 9-2-69, Cl. 134-21.
Hamrick, James C., to J L Products Incorporated, mesne. Method and apparatus for vacuum cleaning. 3,464,859, 9-2-69, Cl. 134-21.
Hamrick, James C., to Jet Line Products Inc., mesne. Outlet receptacle for centralized vacuum cleaning system. 3,468,334, 9-23-69, Cl. 137-355.23
Hamrick, James G.; Lee, Milton O.; and Loewenthal, Ariadne L., to Numo-Trans Data Corporation, mesne. Print reading systems. 3,435,414, 3-25-69, Cl. 340-146.3
Hamrick, Joseph T. Two-step rocket propellant injection system. 3,431,733, 3-11-69, Cl. 60-258.
Hamrick, Joseph T. High temperature composite propellant system. 3,463,682, 8-26-69, Cl. 149-19.
Hamrock, Alfred R.: *See*—
Krispinsky, Alois S.; Thomas, Howard P.; and Hamrock, Alfred R.,3,451,730.
Hams, Kenneth A.: *See*—
Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A.,3,484,100.
Hamson, Frank C., 1/2 to Sealey, Billy J. Vehicular boom hoist. 3,435,961, 4-1-69, Cl. 212-49.
Hamu, Kaino J. Frame for stressing sheet material. 3,482,343, 12-9-69, Cl. 38-102.5
Han, Bing-Hou. Ball calculator. 3,455,033, 7-15-69, Cl. 35-31.
Hana, Norman A., to Dehlin Dental Laboratory Company. Method of forming a prosthetic dental appliance and an impression tray therefor. 3,461,560, 8-19-69, Cl. 32-17.
Hanabusa, Minoru: *See*—
Tanaka, Hozumi; Hanabusa, Minoru; Goshima, Kazuaki; Unno, Yutaka; and Kajihara, Sadaji,3,450,505.
Hanada, Masatosi: *See*—
Shinohara, Shinitsu; and Hanada, Masatosi,3,468,431.
Hanafin, Bernard M., to Baum, W. A., Co., Inc. Disposable sphygmomanometer cuff. 3,473,525, 10-21-69, Cl. 128-2.05
Hanahara, Hitoshi: *See*—
Washizuka, Isamu; and Hanahara, Hitoshi,3,483,400.
Hanak, Joseph J., to RCA Corporation. Deposition of crystalline niobium stannide. 3,472,694, 10-14-69, Cl. 117-227.
Hanak, Joseph John, to Radio Corporation of America. Deposition of niobium stannide. 3,420,707, 1-7-69, Cl. 117-227.
Hanak, Joseph John, to RCA Corporation. Magnetic heads. 3,479,738, 11-25-69, Cl. 29-603.
Hanaoka, Masanori: *See*—
Toda, Tadahide; Hanaoka, Masanori; and Yamaguchi, Taro,3,473,626.
Hanaoka, Susumu: *See*—
Hirose, Yoshiyuki; and Hanaoka, Susumu,3,435,611.
Hanaway, Charles D. Manually-held power-driven pipe cutter. 3,449,992, 6-17-69, Cl. 83-455.
Hance, Richard J., to Leeds & Northrup Company. Immersion molten metal sampler device. 3,463,005, 8-26-69, Cl. 73-341.
Hanchen, Siegfried Herbert-Erwin. Locking device for hydraulic cylinder. 3,470,793, 10-7-69, Cl. 92-20.
Hanchett, George D., to RCA Corporation. Switching circuit embodying parallel pair of controlled rectifiers. 3,469,113, 9-23-69, Cl. 307-252.
Hanchett, Kenneth R., to General Motors Corporation. Damper to prevent gear clash in a countershaft transmission. 3,478,615, 11-18-69, Cl. 74-339.
Hanchett, Leland J., Jr., to General Electric Company. Photoelectric device for sensing indicia on a moving medium. 3,466,451, 9-9-69, Cl. 250-219.
Hanchett Manufacturing Company-Raydyne Division: *See*—
Schaub, Fred C., 3,452,604.
Hanchey, Karl K.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,220.
Hancks, Dorothy E.; Hubbard, William C.; and Routh, Claude C., to United States of America, Navy. Acceleration cancelling hydrophone. 3,458,857, 7-29-69, Cl. 340-10.
Hancock & Co. (Engineers) Limited: *See*—
Diprose, Kenneth Victor; and Forbes, Arthur Stuart, 3,431,419.
Redman, Derek H., 3,472,501.
Redman, Derek Harry, 3,462,844.
Hancock Brick & Tile Company, The: *See*—
Schmunk, John D., 3,421,609.
Hancock, Garth S. Apparatus and process for separating materials of different specific gravities. 3,464,553, 9-2-69, Cl. 209-467.
Hancock, Harold E., to Courier Enterprises. Endless tape recorder and cartridge. 3,471,096, 10-7-69, Cl. 242-55.19
Hancock Industries, Inc.: *See*—
Kirk, Joseph R., 3,438,083.
Hancock, Jack Arnet; and Hayden, William Fred, to Du Pont de Nemours, E. I., and Company. Twisted chute for improved tow stacking. 3,466,716, 9-16-69, Cl. 28-1.
Hancock, James E., to Declark, Inc. Scraper elevator adjustment. 3,465,454, 9-9-69, Cl. 37-8.
Hancock, James E.; and Stuller, Howard E., to Clark Equipment Company. Movable bottom elevating type scraper with bottom cleaning gate. 3,426,457, 2-11-69, Cl. 37-8.
Hancock, James L., to Celanese Corporation. Locking device for beams. 3,430,773, 3-4-69, Cl. 211-13.
Hancock, John L.; and Koplar, Solomon Edward, to Koplar, Solomon Edward, mesne. Pendulum hanger. 3,434,279, 3-25-69, Cl. 58-134.
Hancock, John P., to Lockheed Aircraft Corporation. Air intake for gas turbine engines. 3,446,223, 5-27-69, Cl. 137-15.2
Hancock, John R.; and Sigler, Harold, to Fairchild Camera and Instrument Corporation. Machine for producing engraving plates for stereoscopic reproductions. 3,479,452, 11-18-69, Cl. 178-6.6
Hancock, John, to Bray, Geo., & Company Limited. Gas-burner jet assemblies. 3,467,316, 9-16-69, Cl. 239-594.
Hancock, John; and Westerman, Albert, to Bray, Geo., & Company Limited. Post-aerated gas jets. 3,439,877, 4-22-69, Cl. 239-419.5
Hancock, John; and Westerman, Albert, to Bray, Geo., & Company Limited. Post-aerated gas jets. 3,439,997, 4-22-69, Cl. 431-350.
Hancock, Lyle J.; and Miller, Robert E., to Curtis Development & Mfg., Co. Electrical terminal with captive screw. 3,434,103, 3-18-69, Cl. 339-272.
Hancock, Robert O.: *See*—
Altekruse, John L.; Buxton, Albert C.; Hancock, Robert O.; and Miller, James H.,3,421,716.
Hancyk, Boleslaw: *See*—
Kokosinski, Jacek; Orlowski, Jan; Czachowska, Barbara; and Hancyk, Boleslaw,3,424,793.

Hand, Albert M., to Steadman Industries Limited. Container transfer system. 3,439,821, 4-22-69, Cl. 214-516.
Hand, Ross L., Jr., to Lockheed Aircraft Corporation. Radiant energy target acquisition and tracking logic system. 3,480,779, 11-25-69, Cl. 250-203.
Hand, William C., to Inventions and Inventions Consultants, Inc. Rail car center sill and coupler structure. 3,481,492, 12-2-69, Cl. 213-21.
Handele, Martin Jacob; Kuipers, Johannes; and Wellinga, Kobus, to U.S. Philips Corporation. Methods of combatting nematodes. 3,449,497, 6-10-69, Cl. 424-263.
Handgards, Inc.: *See*—
Blatz, Robert A., 3,486,657.
Handke, Patrick M.: *See*—
Ballard, Robert L.; Edgell, James E.; Handke, Patrick M.; and Loechner, John T.,3,438,130.
Handler, Elliott: *See*—
Douglas, Raymond J.; Handler, Elliott; Iwasaki, Cedric E.; Kossoff, Joseph; and Ryan, John W.,3,475,857.
Handler, Martin M.; Gulfo, Jon; and Bonat, Jerome B., to Bonat, Samuel, & Bro., Inc. Adjustable hair-dryer hoods. 3,469,328, 9-30-69, Cl. 34-99.
Handler, Milton E.: *See*—
Ferdinand, Irwin J.; and Handler, Milton E.,3,479,974.
Handler, Milton J.: *See*—
Ferdinand, Irwin J.; and Handler, Milton J.,3,479,975.
Handley, Donald D. Modified flat bed truck. 3,441,153, 4-29-69, Cl. 214-85.
Handley, Harold E.; Handley, Robert D.; and Perry, Frank J., to Handley Industries, Inc. Aerial sign. 3,457,664, 7-29-69, Cl. 40-145.
Handley Industries, Inc.: *See*—
Handley, Harold E.; Handley, Robert D.; and Perry, Frank J., 3,457,664.
Handley Page Limited: *See*—
Blythe, Alan Avery; and Lachmann, Victor Gustav, 3,429,023.
Handley, Robert D.: *See*—
Handley, Harold E.; Handley, Robert D.; and Perry, Frank J.,3,457,664.
Handlovits, Carl E.: *See*—
Harrison, Ian R.; Smith, Harry A.; and Handlovits, Carl E.,3,451,873.
Handman, Arthur L., to Litton Systems, Inc. Visibility modification method and apparatus. 3,438,576, 4-15-69, Cl. 239-2.
Handman, Stanley L.; and Rosenberg, Arthur. Tank for culture of marine life. 3,465,718, 9-9-69, Cl. 119-2.
Hands, Edward; and Henstock, Graham, to Canadian Westinghouse Company, Limited. Storage circuit utilizing differential amplifier stages. 3,469,112, 9-23-69, Cl. 307-238.
Handwerger, Louis, to U.S. Industries, Inc., d/b/a Rau Fastener. Fastener attaching tool. 3,472,442, 10-14-69, Cl. 227-147.
Handwerk, Erwin C., to Matthiessen & Hegeler Zinc Company. Metal purifying apparatus. 3,437,331, 4-8-69, Cl. 266-37.
Handwerk, Joseph Henry; and White, David E., to United States of America, Atomic Energy Commission. Method and apparatus for making peas-in-a-pod nuclear reactor element. 3,425,115, 2-4-69, Cl. 29-421.
Handwerk, Joseph H.: *See*—
White, George D.; and Handwerk, Joseph H.,3,431,329.
Handwerk, Karl-Heinz: *See*—
Von Wasielewski, Erwin; and Handwerk, Karl-Heinz,3,444,794.
von Wasielewski, Erwin; and Handwerk, Karl-Heinz,3,471,226.
Handwerk, Reginald L.; and Allen, Lyle, to Castle & Cooke, Inc. Pineapple-grapefruit fruit juice blend. 3,425,841, 2-4-69, Cl. 99-105.
Handwerker, Gary R., to Midwest Canvas Corporation. Temporary wall construction. 3,480,069, 11-25-69, Cl. 160-354.
Handy, Allen R.: *See*—
Handy, Byron F., Jr.; Handy, Allen R.; and Handy, Gregory S.,3,427,938.
Handy, Byron F., Jr.; Handy, Allen R.; and Handy, Gregory S., to BAS Equipment and Manufacturing Co., Inc. Curb and gutter extruding machine. 3,427,938, 2-18-69, Cl. 94-46.
Handy, Gregory S.: *See*—
Handy, Byron F., Jr.; Handy, Allen R.; and Handy, Gregory S.,3,427,938.
Handy, John W., Jr. Acoustic structure. 3,483,944, 12-16-69, Cl. 181-30.
Handy Manufacturing Company: *See*—
Joseph, Alan H., 3,479,522.
Handy, Richard L.; and Fox, Nathaniel S., to Iowa State University Research Foundation, Inc. Method and apparatus for in situ bore hole testing. 3,427,871, 2-18-69, Cl. 73-84.
Hane, Walter E.; and Alexander, Jack F., to Ortronix, Inc. Frequency encoded data receiver employing phase-lock loop. 3,440,540, 4-22-69, Cl. 325-320.
Haneda, Tomotsune: *See*—
Uzu, Keizo; Takahira, Hiroshi; Kato, Hiromasa; Sugiyama, Noriyuki; Haneda, Tomotsune; and Ishii, Sumihiro,3,424,743.
Hanekamp, Robert D.; and Jayne, Keith D., to Procter & Gamble Company, The. Apparatus for turning articles of oblong cross section on their vertical axis. 3,467,237, 9-16-69, Cl. 198-33.
Haner, Harry J.: *See*—
Patriquin, George P.; and Haner, Harry J.,3,466,747.
Haner, Robert B., Jr.; Sibley, Henry C.; Sutton, Paul C.; and Pettitt, Walter G., to General Signal Corporation. Stabilization of an infrared detector cell as used in thermal wheel scanner systems. 3,435,223, 3-25-69, Cl. 250-83.3
Haner, Robert L.; and Major, Norman L., to Bell Telephone Laboratories, Incorporated. Correction of frequency shift in carrier systems. 3,447,084, 5-27-69, Cl. 325-49.
Hanes Corporation: *See*—
Beard, Ralph L.; and Hester, James F., 3,449,765.
Nebel, Max Bruno; and Nebel, Erhard Max, 3,430,462.
Nebel, Max Bruno; and Nebel, Erhard M., 3,430,463.
Hanes, Glenn M., to Canadian General Electric Company, Limited. Transposition for bus bars. 3,450,826, 6-17-69, Cl. 174-34.
Hanes, James W. E., to Ventura Tool Company. Flexible connectors. 3,433,504, 3-18-69, Cl. 285-93.
Hanes, James W. E., to Ventura Tool Company. Fluid pressure releasable automatic tool joint. 3,455,578, 7-15-69, Cl. 285-18.
Hanessian, Stephen, to Parke, Davis & Company. 9-(β-D-arabinofuranosyl)-6-(amidino) purine compounds and methods for their production. 3,472,838, 10-14-69, Cl. 260-211.5
Hanessian, Stephen; and Schutze, Gunter R., to Parke, Davis & Company. 6-Aminopenicillanic acid and 7-aminocephalosporanic acid derivatives. 3,457,257, 7-22-69, Cl. 260-239.1
Haneta, Yuichi, to Nippon Electric Company Limited. Field effect semiconductor device. 3,479,571, 11-18-69, Cl. 317-234.
Haney, Benjamine H.; and Dockery, Benjamin F., to Hickory Springs Manufacturing Company, Inc. Upholstery edge springs. 3,479,672, 11-25-69, Cl. 5-260.
Haney, Donald W.: *See*—
Giannuzzi, George A.; and Haney, Donald W.,3,427,962.
Haney, Howard A., to Hausman Corporation. Concrete forming apparatus. 3,471,117, 10-7-69, Cl. 249-31.
Haney, Lowell B.: *See*—
Lymar, Wasyl, 3,441,103.
Haney, Michael E., Jr.: *See*—
Gorman, Marvin; Haney, Michael E., Jr.; Lively, David H.; and Davenport, James D.,3,476,648.
Haney, Ted I.; and Warner, Henry L., to United States of America, Navy. Sonar system. 3,469,230, 9-23-69, Cl. 340-3.
Haney, Thomas A.: *See*—
Bruno, Gerald A.; Haney, Thomas A.; Numerof, Paul; and Reinhardt, Karl,3,440,423.
Haney, Thomas P.: *See*—
Buckingham, Arthur G.; and Haney, Thomas P.,3,429,524.
Hanford, Eugene B.: *See*—
Coel, Trafford H.; Hanford, Eugene B.; and Stewart, Stanley H.,3,423,532.
Hanford william E.; and Newman, Benjamin, to Olin Mathieson Chemical Corporation. Solid deodorizing compositions. 3,446,893, 5-27-69, Cl. 424-76.
Hanford, William E.; and Law, William E., to Olin Mathieson Chemical Corporation. Pneumatic bathing cap. 3,480,967, 12-2-69, Cl. 2-68.
Hani, Franz Alois. Device for the production of packages. 3,443,356, 5-13-69, Cl. 53-184.
Hanifin, John William, Jr.; Capuzzi, Rosemary Angela; and Cohen, Eliott, to American Cyanamid Company. Substituted 4-anilino-3-quinoline- carboxylic acids and esters. 3,470,186, 9-30-69, Cl. 260-287.
Hanink, Dean K., to General Motors Corporation. Brazing of titanium. 3,466,737, 9-16-69, Cl. 29-492.
Hanisch, Emil; Pretterhofer, Leopold; and Neidl, Wilhelm. Protective cover and lip guard for a can. 3,438,533, 4-15-69, Cl. 220-24.
Hanish, Harry W.; and Steffensmeier, Robert A. Filter washing apparatus. 3,442,273, 5-6-69, Cl. 134-100.
Hanke, Albert R., to Du Pont de Nemours, E. I., and Company. Aluminum-silica-aluminum flake pigments. 3,438,796, 4-15-69, Cl. 106-291.
Hanke, Karl, to Arcana Kommanditgesellschaft Dr. G. Hurka. Apparatus for altering the surface configuration of a paper web. 3,481,830, 12-2-69, Cl. 162-296.
Hanken, Albert F. G., to Industrial Nucleonics Corporation. Multiple energy detection for mixture analysis. 3,452,192, 6-24-69, Cl. 250-43.5
Hanken, Albert F., to Industrial Nucleonics Corporation. Dual channel radiation gauge for identifying material components. 3,435,220, 3-25-69, Cl. 250-83.3
Hanken Seisakusho Company, Limited: *See*—
Kawamura, Hiroshi, 3,426,653.
Hankin, Jerome W.: *See*—
Schreiber, Henry; Goerz, David J., Jr.; Hankin, Jerome W.; and Stephansen, Erik W.,3,449,836.
Hankins, Maxey A., to Mole-Richardson Co. Upright stand with adjustable leg span. 3,480,250, 11-25-69, Cl. 248-168.

Hankinson, Thomas W. E., to United States of America, National Aeronautics and Space Administration. Fatigue-resistant shear pin. 3,430,460, 3-4-69, Cl. 64-28.
Hankison Corporation: *See*—
Hankison, Paul M.; and Walker, William Foster, 3,464,186.
Hankison, Paul M.; and Walker, William Foster, to Hankison Corporation. Dryer for compressed fluid systems. 3,464,186, 9-2-69, Cl. 55-163.
Hanks, Charles W., to Air Reduction Company, Incorporated. Electron beam heating apparatus. 3,446,934, 5-27-69, Cl. 219-121.
Hanks, Charles W., to Air Reduction Company, Incorporated. Apparatus for heating a target in an electron bean furnace. 3,475,542, 10-28-69, Cl. 13-31.
Hanks, Charles W., to Air Reduction Company, Incorporated. Electron beam deflecting means. 3,483,417, 12-9-69, Cl. 313-156.
Hanks, Charles W., to Air Reduction Company, Incorporated. Apparatus for producing an electron beam. 3,483,423, 12-9-69, Cl. 315-14.
Hanks, Charles W.; and Harker, Howard R., to Air Reduction Company, Incorporated, mesne. Method and apparatus for producing and directing an electron beam. 3,450,824, 6-17-69, Cl. 13-31.
Hanks, Charles W.; Merrill, Jack D.; and Peterson, Harold A., to Air Reduction Company, Incorporated, mesne. Electron beam apparatus. 3,420,977, 1-7-69, Cl. 219-121.
Hanks, Fletcher. Device for opening and closing windows. 3,469,345, 9-30-69, Cl. 49-2.
Hankus, Chester P. Artificial tree. 3,477,897, 11-11-69, Cl. 161-22.
Hanlan, Mike J. Animal traps. 3,483,652, 12-16-69, Cl. 43-61.
Hanley, Albert J., to General Tire & Rubber Company, The. Method of making porous structures of polyvinyl chloride, compositions for use therein and resulting products. 3,440,185, 4-22-69, Cl. 260-2.5
Hanley Company, The: *See*—
Hanley, William L., 3,439,605.
Hanley, James A., to General Foods Corporation. Curling bar for roll-through labelers. 3,450,588, 6-17-69, Cl. 156-453.
Hanley, Thure E.: *See*—
Caldwell, John H., IV; Klee, Charles W.; Hiller, Alexander J.; Hanley, Thure E.; and Mathes, Robert H.,3,475,637.
Hanley, William G.: *See*—
Clark, Glenn L.; Hanley, William G.; and Paloveik, John,3,465,418.
Hanley, William G.; and Fisher, Frank H., to Rockwell-Standard Company, mesne. Brake mechanism support. 3,441,109, 4-29-69, Cl. 188-78.
Hanley, William L., to Hanley Company, The. Packaging jig. 3,439,605, 4-22-69, Cl. 100-7.
Hanley, William M., to FMC Corporation. Shut-off for pressure controlled liquid flow system at zero flow. 3,431,940, 3-11-69, Cl. 137-565.
Hanlin, Harry H., to United States of America, Atomic Energy Commission. On-off switch for electromagnetic pump. 3,442,217, 5-6-69, Cl. 103-1.
Hanlon & Wilson Company: *See*—
von Hoevel, Edmund H., 3,455,582.
Hanlon, Thomas F. Electrooptic crystal controlled variable color modulator. 3,428,743, 2-18-69, Cl. 178-5.4
Hanlon, William Mc Kinley. Trouble light assembly. 3,474,244, 10-21-69, Cl. 240-11.2
Hanmer, Richard Alan, to Lazy Eight (.) Inc., The. Toy vehicle with self-steering mechanism. 3,431,673, 3-11-69, Cl. 46-208.
Hanmer, Richard Alan, to Lazy Eight (.) Inc., The. Helix feeder for lawnmower. 3,453,814, 7-8-69, Cl. 56-249.
Hanmer, Richard Alan, to Lazy Eight (.) Inc., The. Automotive vehicle. 3,474,565, 10-28-69, Cl. 46-206.
Hann, Ernst Wilhelm: *See*—
Wilhelm, Hans; Bille, Heinz; Hann, Ernst Wilhelm; and Dachs, Karl,3,450,561.
Hann, Gordon E., to Tremco Manufacturing Company, The. Method of producing a pressure sensitive sealing strip. 3,434,903, 3-25-69, Cl. 156-244.
Hann, Melvin M., to Sundstrand Corporation. Hydraulic system. 3,446,308, 5-27-69, Cl. 180-79.2
Hann, Melvin M., to Sundstrand Corporation. Hydrostatic transmission. 3,465,520, 9-9-69, Cl. 60-53.
Hann, Paul D., to Phillips Petroleum Company. Preparation of hexamethylene diamine. 3,478,103, 11-11-69, Cl. 260-583.
Hanna, Daniel C.: *See*—
Ebeling, Jack F., 3,425,079.
Hanna, David L.; and Zellmer, Neale A., to Automatic Electric Laboratories, Inc. Apparatus for regulating signals in response to their total root mean square value. 3,466,572, 9-9-69, Cl. 333-17.
Hanna, Delbert L., to Velsicol Chemical Corporation. Process for preparing 2,5-dichloro-4-bromophenol. 3,461,174, 8-12-69, Cl. 260-623.
Hanna, Edward C.: *See*—
Gill, Frank L.; Beutler, Warren E.; and Hanna, Edward C.,3,487,298.
Hanna, Ernest R., to Eastman Kodak Company. Sensitizer for blue-sensitive emulsions. 3,480,434, 11-25-69, Cl. 96-74.
Hanna, Frank H., to Celanese Corporation. Yarn winding apparatus. 3,421,191, 1-14-69, Cl. 28-39.
Hanna, John L.: *See*—
Lajeunesse, Harry J.; Cowpland, Michael C. J.; and Hanna, John L.,3,463,723.
Hanna, John W.: *See*—
Huley, William G.; Erickson, Howard L.; and Hanna, John W.,3,429,552.
Hanna, John W. Power steering apparatus. 3,424,020, 1-28-69, Cl. 74-388.
Hanna Mining Company, The: *See*—
Warren, Roy K., 3,453,531.
Hanna, William L.; and Petersen, Christian C., to Polaroid Corporation. Heat sealer. 3,479,485, 11-18-69, Cl. 219-243.
Hannaberg, Orrin. Adjustable hand rail attachment for a bed and mat- tress. 3,474,473, 10-28-69, Cl. 5-331.
Hannagan, Harold W.: *See*—
Burkdoll, Francis B.; and Hannagan, Harold W.,3,454,245.
Hannah, Kenneth W.: *See*—
Estes, Nelson N.; Hannah, Kenneth W.; Anderson, Charlie D.; and Eversole, Charles L.,3,454,258.
Hannan, David G.: *See*—
Plantz, Charles A.; and Hannan, David G.,3,455,655.
Roberts, Charles C.; and Hannan, David G.,3,455,656.
Hannan, James M. Safety helmet edge bead. 3,467,964, 9-23-69, Cl. 2-3.
Hannan, Peter W., to Hazeltine Research, Inc. Monopulse antenna system with lens to provide equal illumination of main antenna aperture. 3,456,260, 7-15-69, Cl. 343-755.
Hannan, Peter W., to Hazeltine Research, Inc. Antenna systems providing independent control in a plurality of modes of operation. 3,460,144, 8-5-69, Cl. 343-777.
Hannapel, Martin. Alignment change indicator for motor car wheels. 3,438,646, 4-15-69, Cl.
Hannard, Andre, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Machine to unfold the winding coils of electrical machines. 3,440,855, 4-29-69, Cl. 72-296.
Hanneman, Robert Gorden; Gordon, Mack; and Gregor, Harry, to Electro-Dynamics, Inc. Electro-hydraulic transducer. 3,427,978, 2-18-69, Cl. 103-1.
Hanneman, Rodney E.; Jorgensen, Paul J.; and Speros, Dimitrios M., to General Electric Company. Alumina-ceramic sodium vapor lamp. 3,453,477, 7-1-69, Cl. 313-184.
Hannemann, Franz; Landwehr, Gunter; Sugland, Wolfgang; and Myska, Gunter, to Kochs Adlernahmaschinen Werke A.G. Thread trimming device for lockstitch sewing machine. 3,443,540, 5-13-69, Cl. 112-252.
Hannen, James H., Jr.: *See*—
Szuba, Walter D.; and Hannen, James H., Jr.,3,476,066.
Hannerz, Kare; Sundqvist, Cnut; and Skygge, Carl Gosta, to Allmanna Svenska Elektriska Aktiebolaget. Means for power control in nuclear reactors. 3,446,704, 5-27-69, Cl. 176-61.
Hannes, George J., to Johns-Manville Corporation. Siliceous fiber air duct. 3,438,401, 4-15-69, Cl. 138-141.
Hannes Marker Sicherheits-Skibindungen KG.: *See*—
Huss, Otto, 3,423,100.
Hanni, Eduard. Plate-working machine. 3,465,561, 9-9-69, Cl. 72-36.
Hanni, Manfred: *See*—
Christiansen, Hans-Martin; and Hanni, Manfred,3,426,296.
Hanni, Manfred, to Siemens Aktiengesellschaft. Modulation system for converting analogue signals to a pulse amplitude to pulse width to a binary output. 3,478,170, 11-11-69, Cl. 179-15.
Hannibal, Billy B.; and Hover, Paul B., to Tecumseh Products Company. Motor-compressor unit. 3,445,059, 5-20-69, Cl. 230-235.
Hannifan, Martin K.; and Ballard, James, to Anaconda Company, The. Recovery of metal values by leaching. 3,441,316, 4-29-69, Cl. 299-5.
Hanning, David L.: *See*—
Seider, Gene J.; and Hanning, David L.,3,424,945.
Hannis, Eugene S.; and Reale, Paul J., to Western Electric Company, Incorporated. Reversible flyer for paying off wire from a supply spool. 3,434,677, 3-25-69, Cl. 242-128.
Hannon, Charles N. Container closure. 3,446,383, 5-27-69, Cl. 215-56.
Hannon, Francis C., Jr., to United States of America, Navy. Nadir elevation computer. 3,448,201, 6-3-69, Cl. 35-10.4
Hannula, Rodney R.: *See*—
Allen, Michael G.; Errede, Louis A.; and Hannula, Rodney R.,3,479,877.
Hannum, Mary K. Combination sweater bag and handbag. 3,422,868, 1-21-69, Cl. 150-35.
Hannum, William B., Jr. Apparatus for distributing material centrifugally. 3,481,048, 12-2-69, Cl. 34-59.
Hannum, William L. Adjustable coat hanger. 3,443,729, 5-13-69, Cl. 223-94.
Hanny, John F.; Shafer, Robert J.; and Whitaker, John G., to National Cash Register Company, The. Driven, headed, and screw-threaded fastenings. 3,485,132, 12-23-69, Cl. 85-1.

Hanny, John F.: *See—*
Yoncoskie, Robert A.; Kass, Robert E.; Hanny, John F.; and Whitaker, John G.,3,455,848.
Hanny, Jost; and Hirschberg, Hans Gunter, to Sulzer Brothers Limited. Process and apparatus for making granulated frozen particles. 3,427,816, 2-18-69, Cl. 62-74.
Hanold, Paul A., to American Machine & Foundry Company. Stepping switch with momentary switch capabilities. 3,443,047, 5-6-69, Cl. 200-156.
Hanousek, Alois: *See—*
Bartosek, Vladimir; and Hanousek, Alois,3,454,248.
Hanrahan, Edward T. Soil drainage method. 3,422,626, 1-21-69, Cl. 61-10.
Hans Linus K., now by change of name: *See—*
Colmery, Benjamin H., Jr.; Hans Linus K., now by change of name; and Hahn, Linus K.,3,424,902.
Hans Sickinger Co.: *See—*
Pfaffle, Ernst, 3,459,074.
Hansard, Michael Eric: *See—*
Rose, Cyril Ernest; and Hansard, Michael Eric,3,458,220.
Hansch, Ferdinand: *See—*
Schmidt, Karl; Hansch, Ferdinand; and Rombrecht, Hans-Malte,3,459,829.
Hanschar, Harry H. Container holder. 3,427,064, 2-11-69, Cl. 294-32.
Hanscom, Genevieve I.: *See—*
Crawford, Lynn D., 3,422,954.
Daugherty, Ralph K., 3,437,116.
Simmons, Patrick M. L., 3,437,819.
Simmons, Patrick M. L., 3,455,444.
Simmons, Patrick M. L., 3,467,254.
Hanscom, H. F., & Company, Inc.: *See—*
Hanscom, Harris F., 3,434,591.
Hanscom, Harris F., 3,480,219.
Hanscom, Harris F., 3,480,220.
Hanscom, Harris F., to Hanscom, H. F., & Company, Inc. Pancake type package having controlled unwinding. 3,434,591, 3-25-69, Cl. 206-52.
Hanscom, Harris F., to Hanscom, H. F., & Company, Inc. Machine for winding cord-like members into hank form. 3,480,219, 11-25-69, Cl. 242-53.
Hanscom, Harris F., to Hanscom H. F., & Company, Inc. Machine for winding and transferring hanked material. 3,480,220, 11-25-69, Cl. 242-53.
Hanscom, Russell C., Jr. Fruit picker. 3,468,111, 9-23-69, Cl. 56-328.
Hansel, Werner: *See—*
Bende, Friedrich; Corsepius, Horst; and Hansel, Werner,3,478,102.
Hanselmann, Frank. Windshield washing device. 3,443,759, 5-13-69, Cl. 239-284.
Hansen, Andrew C., Jr., to Universal Oil Products Company. Method for converting hydrocarbons. 3,445,379, 5-20-69, Cl. 208-107.
Hansen, Andrew C., Jr., to Universal Oil Products Company. Conversion of sulfur-containing hydrocarbons. 3,461,062, 8-12-69, Cl. 208-89.
Hansen, Andrew C., to Universal Oil Products Company. System for steam generation. 3,473,519, 10-21-69, Cl. 122-32.
Hansen, Carl J. Farm vehicle. 3,455,404, 7-15-69, Cl. 180-25.
Hansen, Charles C.; Mauer, Kenneth H.; and Kivioja, Olaf E., to Refrigerating Specialties Company. Refrigerant feed control and systems. 3,449,923, 6-17-69, Cl. 62-217.
Hansen, Clayton C. Tank liner assembly. 3,477,610, 11-11-69, Cl. 220-63.
Hansen, David G.: *See—*
Hanson, Rolf G.; and Hansen, David G.,3,456,388.
Hansen, David O.; Friichtenicht, Joseph F.; and Roy, Neal L., to TRW Inc. Arrangement for electrically charging a beam of microparticles with an ion beam. 3,435,208, 3-25-69, Cl. 250-41.9
Hansen, David O.; and Roy, Neal L., to TRW, Inc. Particle parameter analyzing system. 3,423,627, 1-21-69, Cl. 315-22.
Hansen, Donald E., to Mosler Research Products, Inc. Capacity alarm. 3,462,755, 8-19-69, Cl. 340-258.
Hansen, Donald E.; and Quist, Eric G., to Mosler Research Products, Inc. Line supervisory circuit. 3,423,748, 1-21-69, Cl. 340-285.
Hansen, Donald E.; and Quist, Eric G., to Mosler Research Products, Inc. Camera control circuit. 3,447,054, 5-27-69, Cl. 318-269.
Hansen, Donald H., to Perkin-Elmer Corporation, The. Optical reflector target. 3,442,567, 5-6-69, Cl. 350-50.
Hansen, Donald J., to Union Carbide Corporation. Oxygen treatment of chromium alloys. 3,420,657, 1-7-69, Cl. 75-60.
Hansen, Douglas R.: *See—*
Cook, Donald L.; Hansen, Douglas R.; and Gillespie, Richard L., Sr.,3,463,361.
Hansen, Edward L., 1/6 to White, George B. Surface treating device. 3,474,512, 10-28-69, Cl. 29-76.
Hansen, Edwin J. Protection signalling system for self-service elevators. 3,461,422, 8-12-69, Cl. 340-21.
Hansen, Everett K.: *See—*
Petersen, Allen J.; and Hansen, Everett K.,3,431,445.
Petersen, Allen J.; and Hansen, Everett K.,3,431,446.
Hansen, Franklin A.: *See—*
Raidl, John H.; Solter, Robert L.; and Hansen, Franklin A.,3,445,032.
Hansen, George R., to Carborundum Company, The. Vibratory molding apparatus. 3,458,909, 8-5-69, Cl. 25-41.
Hansen, Guenter: *See—*
Schmitt, Karl Otto; Hansen, Guenter; and Mueller, Hans,3,449,067.
Hansen, Gunnar Lyshoj, to Danfoss A/S. Gear pumps and gear power units. 3,424,095, 1-28-69, Cl. 103-126.
Hansen, Gunnar Lyshoj, to Danfoss A/S. Loading compensated commutating valve for fluid motors and pumps. 3,473,438, 10-21-69, Cl. 91-56.
Hansen, Hans C, Phonographs. 3,438,635, 4-15-69, Cl. 274-9.
Hansen, Hans I., to Iowa Manufacturing Company. Drive for roll crushers. 3,478,972, 11-18-69, Cl. 241-230.
Hansen, Hans: *See—*
Rausch, Werner; and Hansen, Hans,3,450,579.
Rausch, Werner; Hansen, Hans; and Mueller, Gerhard,3,467,589.
Siemund, Guenter; Hansen, Hans; and Flittner, Peter,3,450,578.
Hansen, Harold Valentine; Youngberg, Charles Harold; and Ford, Perry, Jr., to Deere & Company. Minimum tillage hitch device. 3,478,828, 11-18-69, Cl. 172-669.
Hansen, Harold Valentine: *See—*
Youngberg, Charles Harold; and Hansen, Harold Valentine,3,454,106.
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert I., to Warner-Lambert Pharmaceutical Company. Hexahydro-9,4α-iminoethano-4α H-xanthenes and process for their production. 3,479,358, 11-18-69, Cl. 260-286.
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert Israel, to Warner-Lambert Pharmaceutical Company. 9,4α-Iminoethanoanthracenes and indeno [2,1-j]. 3,466,288, 9-9-69, Cl. 260-286.
Hansen, Holger V.; and Meltzer, Robert I., to Warner-Lambert Pharmaceutical Company. 1-Amino-1,3,4,6,7,11β-hexahydro-2H-benzo [α] quinolizines. 3,452,025, 6-24-69, Cl. 260-288.
Hansen, Howard J.; and Marette, Ralph T., to Hansen Manufacturing Company, The. Quick-connective coupling. 3,423,110, 1-21-69, Cl. 285-277.
Hansen, James W.; and King, Leonard T., to Hughes Aircraft Company. Evaporatively cooled traveling-wave tube. 3,444,419, 5-13-69, Cl. 315-3.5
Hansen, Jay M.; and May, Michael, to Hughes Aircraft Company. Thin film nondestructive memory. 3,448,438, 6-3-69, Cl. 340-174.
Hansen, John E.: *See—*
Hanson, Doyce B.; Hansen, John E.; and Boyer, Nolan D.,3,422,180.
Hansen, John W., to Elwell, Charles A. Steerable toy vehicle. 3,453,970, 7-8-69, Cl. 104-149.
Hansen, Kenneth W.; and Taylor, William C., to Dresser Industries, Inc. Dome-shaped electric furnace roof construction. 3,448,703, 6-10-69, Cl. 110-99.
Hansen, Lee R., to L.L.G., Lee's, Inc. Float-switch mechanism to monitor liquid level. 3,471,664, 10-7-69, Cl. 200-84.
Hansen, Lloyd F., to American Cyanamid Company. Capsule forming apparatus with fluid metering valve. 3,465,496, 9-9-69, Cl. 53-184.
Hansen, Lloyd Frank: *See—*
Vincent, James G., Jr.; Hansen, Lloyd Frank; Yen, Ernest Chu; Taylor, Arthur Sinclair; Bott, George Spencer; and Greif, Martin,3,436,453.
Hansen Manufacturing Company, The: *See—*
Hansen, Howard J.; and Marette, Ralph T., 3,423,110.
Norton, James Frederick, 3,460,801.
Hansen, Melvin O. Locking mechanism for seat belts. 3,421,605, 1-14-69, Cl. 188-82.77
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R., to Franklin Electric Co., Inc. Wrapping machine. 3,432,987, 3-18-69, Cl. 53-210.
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R., to Franklin Electric Co., Inc. Wrapping machine. 3,466,840, 9-16-69, Cl. 53-74.
Hansen, Omar, Jr.: *See—*
Schaefer, Edward J.; Hansen, Omar, Jr.; and McVicker, Robert F.,3,466,849.
Hansen, Paul Edward; Crawford, Ray H.; and Gwin, Franklin P. Stilt footrest. 3,475,022, 10-28-69, Cl. 272-70.2
Hansen, Quinten A. Clutch with non-rotatable fluid motor. 3,429,410, 2-25-69, Cl. 192-85.
Hansen, Quinten A. Lever operated clutch actuator. 3,474,887, 10-28-69, Cl. 192-93.

Hansen, Ralph H., to Bell Telephone Laboratories, Incorporated. Polyolefins stabilized with substituted indoles. 3,454,524, 7-8-69, Cl. 260i45.8

Hansen, Ralph H., to Bell Telephone Laboratories, Incorporated. Stabilized polymeric compositions. 3,484,285, 12-16-69, Cl. 117-232.

Hansen, Ralph H.; and Russel, Charles A., to Bell Telephone Laboratories, Incorporated. Stabilized polymeric composition. 3,462,517, 8-19-69, Cl. 260-987.

Hansen, Ralph H.; and Schonhorn, Harold, to Bell Telephone Laboratories, Incorporated. Bonding of thermoplastic composition with adhesives. 3,462,335, 8-19-69, Cl. 156-272.

Hansen, Robert B., to Motorola, Inc. Dual pentode demodulator for three color television signals. 3,429,988, 2-25-69, Cl. 178-5.4

Hansen, Robert B., to Motorola, Inc. Signal tracking noise cancellation for television receiver. 3,437,751, 4-8-69, Cl. 178-7.5

Hansen, Robert B.; and Kramer, Don A., to Motorola, Inc. Horizontal flyback sweep system. 3,430,096, 2-25-69, Cl. 315-22.

Hansen, Robert B.; and Macintyre, Ernest C., Jr., to Motorola, Inc. Automatic beam intensity limiter. 3,465,095, 9-2-69, Cl. 178-5.4

Hansen, Robert B.; and Waldschmidt, Henry C., to Motorola, Inc. Color television receiver. 3,441,664, 4-29-69, Cl. 178-5.4

Hansen, Robert B.: *See—*
Macintyre, Ernest C., Jr.; and Hansen, Robert B.,3,421,043.

Hansen, Robert C.: *See—*
Johnson, Lowell E.; Hansen, Robert C.; Pearce, Shairyl I.; and Lanchantin, Charles E., Jr.,3,478,621.

Hansen, Robert D., to Dow Chemical Company, The. Method for preparing tungsten powders doped with refractory metal oxides. 3,475,159, 10-28-69, Cl. 75-0.5

Hansen, Robert D.: *See—*
MacWilliams, Dalton C.; and Hansen, Robert D.,3,451,764.

Hansen, Robert L., to Minnesota Mining and Manufacturing Company. Polyamide-acid polymers and polyimides prepared from azobenzene tetracarboxylic dianhydrides. 3,476,705, 11-4-69, Cl. 260-47.

Hansen, Robert L., to Minnesota Mining and Manufacturing Company. Tertiaryamino perfluoro alkylene sulfonic acid fluorides. 3,476,753, 11-4-69, Cl. 260-247.1

Hansen, Robert W.: *See—*
Deal, Roger L.; and Hansen, Robert W.,3,447,107.

Hansen, Robert William, to Miles Laboratories, Inc. Recovery of micrococcal nuclease. 3,424,654, 1-28-69, Cl. 195-66.

Hansen, Robert W., to Jennings Radio Manufacturing Corporation. Manually operated encapsulated single pole- double throw high voltage vacuum switch. 3,426,168, 2-4-69, Cl. 200-144.

Hansen, Siegfried: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,463,001.

Hansen, Siegfried, to Hughes Aircraft Company. Dimension regulated structural strut. 3,468,080, 9-23-69, Cl. 52-1.

Hansen, Siegfried, to Hughes Aircraft Company. Tilt meter. 3,486,238, 12-30-69, Cl. 33-211.

Hansen, Sigurd P.: *See—*
Culp, Gordon L.; Hansen, Sigurd P.; and Stukenberg, John R.,3,472,764.
Culp, Gordon L.; Schilling, Robert D.; Hansen, Sigurd P.; and Botsford, Charles W.,3,425,936.

Hansen, Sigurd P.; Botsford, Charles W.; Rice, Archie H.; and Conley, Walter R., Jr., to Neptune Microfloc Incorporated. Package water treatment plant. 3,482,695, 12-9-69, Cl. 210-86.
Rice, Archie H.; Culp, Gordon L.; Conley, Walter R., Jr.; and Hansen, Sigurd P.,3,482,694.

Hansen, Sten A. R.; and Barkstrom, Nils E. A., to Associated Cargo Gear AB. Tightening arrangement in pneumatic or hydraulic servomotors. 3,456,562, 7-22-69, Cl. 92-122.

Hansen, Sten Anders Runeson, to Associated Cargo Gear AB. Pressure medium operated mechanism. 3,444,789, 5-20-69, Cl. 92-121.

Hansen, Theodore A., to Teletype Corporation. Circuit for maintaining selected circuits operated. 3,461,313, 8-12-69, Cl. 307-231.

Hansen, Walter, to Eltra Corporation. Photographic drafting machines. 3,458,253, 7-29-69, Cl. 355-19.

Hansen, Walter; and Heidenreich, Karl, to Eltra Corporation. Slide and mechanism for photographic drafting machines. 3,469,513, 9-30-69, Cl. 95-4.5

Hansen, Wilbur W.; and Myers, Robert E., to Stanford Research Institute. Luminescent films containing rare earth oxides. 3,434,863, 3-25-69, Cl. 117-33.5

Hansen, Wilford N., to North American Rockwell Corporation. Variable angle attenuated total reflection attachment. 3,420,138, 1-7-69, Cl. 356-246.

Hansen, Wilford N., to North American Rockwell Corporation. Multiple attenuated total reflection apparatus and method. 3,433,570, 3-18-69, Cl. 356-128.

Hansen, Wilford N.; and Horton, James A., to North American Rockwell Corporation. Infrared radiation brewster's angle polarizer. 3,439,968, 4-22-69, Cl. 350-1.

Hansen, Wilford N.; and Osteryoung, Robert A., to North American Rockwell Corporation. Electrochemically controlled light reflection. 3,476,460, 11-4-69, Cl. 350-160.

Hansen, William Frederick: *See—*
Burton, Harold; Pavey, John Anthony; Jayne-Williams, Derek James; and Hansen, William Frederick,3,486,840.

Hansen, William S.: *See—*
Wiebe, Donald, 3,477,289.

Hanser, Paul E.: *See—*
Creighton, John H.; Frinkmeyer, Francis M.; and Hanser, Paul E.,3,450,213.

Hanser, Paul Edmund, to Deere & Company. Saddle structure for earth grader. 3,454,110, 7-8-69, Cl. 172-793.

Hanser, Paul E.; Schmidt, Robert L.; and Carr, Marvin W., to Deere & Company. Scraper control mechamism. 3,455,400, 7-15-69, Cl. 172-793.

Hanser, William F., to National Oats Company. Reduction of cereal grains to flour. 3,452,936, 7-1-69, Cl. 241-8.

Hansford, Rowland C. Dehydrocyclization process and catalyst. 3,480,684, 11-25-69, Cl. 260-673.5

Hansford, Rowland C.: *See—*
Wight, Carlyle G.; Hass, Robert H.; and Hansford, Rowland C.,3,450,626.

Hansma, Hendrik: *See—*
Gerritsen, Hans Giovanni; and Hansma, Hendrik,3,449,275.

Hanson, Alan R.; Minks, Paul R.; and Moe, Oliver M., to Sperry Rand Corporation. Core nest. 3,421,865, 1-14-69, Cl. 29-183.

Hanson, Alexander O. Tackle retriever. 3,447,828, 6-3-69, Cl. 294-66.

Hanson, Alfred H., to Piffath, Ralph P. Hermetical sealing mechanism. 3,467,140, 9-16-69, Cl. 138-31.

Hanson, Arthur F. United States Steel Corporation Rod feeder. 3,441,150, 4-29-69, Cl. 214-26.

Hanson, Bernard B.: *See—*
Hanson, Lila M.; Hanson, Bernard B.; and McCutcheon, George H.,3,476,261.

Hanson, Bror E., to United States Envelope Company. Device for stamping envelopes. 3,441,268, 4-29-69, Cl. 271-89.

Hanson, Bror E., to United States Envelope Company. Automatic tab inserting device for envelope forming machine. 3,466,984, 9-16-69, Cl. 93-93.

Hanson, Charles C., to International Business Machines Corporation. Driver circuit with feedback control to maintain constant voltage at a common electric contact member. 3,452,185, 6-24-69, Cl. 235-61.11

Hanson, Charles C., to International Business Machines Corporation. Variable threshold amplifier with input divider circuit. 3,461,303, 8-12-69, Cl. 250-219.

Hanson, Charles G.: *See—*
Harland, Glen E., Jr.; and Hanson, Charles G.,3,467,853.
Harland, Glen E., Jr.; and Hanson, Charles G.,3,469,168.
Harland, Glen E., Jr.; Hanson, Charles G.; and Wiechmann, Eldred H.,3,467,854.

Hanson, Cleo E.: *See—*
Tuschhoff, John V.; Kessinger, Gene L.; and Hanson, Cleo E.,3,422,088.

Hanson, Douglas R.: *See—*
Simmons, Haryl C.; and Hanson, Douglas R.,3,425,170.

Hanson, Doyce B.; Hansen, John E.; and Boyer, Nolan D., to Du Pont de Nemours, E. I., and Company. Solvent tipping of polyethylene terephthalate filaments. 3,422,180, 1-14-69, Cl. 264-341.

Hanson, Earl A., to Stockpole Carbon Company. Sliding contact unit for potentiometer. 3,453,584, 7-1-69, Cl. 338-183.

Hanson, Earl A.: *See—*
Bang, Mogens W.; Hanson, Earl A.; and Eichmiller, Frederick E.,3,448,428.

Hanson, Eugene E., to Ceepo Manufacturing Company. Power steering apparatus. 3,426,863, 2-11-69, Cl. 180-79.2

Hanson, Everett L., to De Luxe Laboratories, Inc. Driving mechanism. 3,451,605, 6-24-69, Cl. 226-76.

Hanson, Fred L., to Hewlett-Packard Company. Square wave generator. 3,458,723, 7-29-69, Cl. 307-240.

Hanson, Fred L., to Hewlett-Packard Company. True R.M.S. detector. 3,484,705, 12-16-69, Cl. 328-149.

Hanson, Garry O.: *See—*
Guise, Arthur B.; and Hanson, Garry O.,3,447,610.

Hanson, Harvey E., to Sonoco Manufacturing, Inc. Timing light. 3,420,994, 1-7-69, Cl. 240-11.4

Hanson, Irven E.: *See—*
Toelke, Lester W.; and Hanson, Irven E.,3,461,676.

Hanson, James R.; and Kolb, Arthur F., to Cutler-Hammer, Inc. Multiposition selector switch for an enclosed electrical control station. 3,478,179, 11-11-69, Cl. 200-5.

Hanson, Larry K.: *See—*
Andresen, Raymond H.; and Hanson, Larry K.,3,445,119.

Hanson, Lila M.; Hanson, Bernard B.; and McCutcheon, George H., to Westland Plastics, Inc. Baby food jar holder. 3,476,261, 11-4-69, Cl. 211-74.

Hanson, Louis G.: *See*—
Nelson, Lowell F.; and Hanson, Louis G.,3,461,808.
Hanson, Marlin M.; Harvey, William A.; and Oberg, Paul E., to Sperry Rand Corporation. Evaporant source. 3,446,936, 5-27-69, Cl. 219-271.
Hanson, Newell B., to Hanson Silo Company. Auger construction for silo unloaders. 3,451,566, 6-24-69, Cl. 214-17.
Hanson, Ralph W., to Technical Ordnance, Inc. Parachute line utting device. 3,419,960, 1-7-69, Cl. 30-180.
Hanson, Ralph W. Dispersal device. 3,421,662, 1-14-69, Cl. 222-95.
Hanson, Raymond A. Grade trimming and spreading apparatus. 3,452,461, 7-1-69, Cl. 37-110.
Hanson, Raymond C., to Hewlett-Packard Company. Modulation product rejection circuit. 3,427,542, 2-11-69, Cl. 324-128.
Hanson, Raymond H.: *See*—
Cheslak, Leonard W.; Appelbaum, Paul; and Hanson, Raymond H.,3,486,658.
Hanson, Richard C., to Ashland Oil & Refining Company. Water soluble adduct of a polyester and an ethoxylated fatty compound. 3,437,615, 4-8-69, Cl. 260-21.
Hanson, Richard J., to General Electric Company. Base construction for dynamoelectric machines. 3,486,051, 12-23-69, Cl. 310-91.
Hanson, Robert N.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,461,700.
United States of America,National Aeronautics and Space Administration, Administrator, 3,460,379.
Hanson, Rolf: *See*—
Hanson, Rolf G.; and Hansen, David G., 3,456,388.
Hanson, Rolf G.; and Hansen, David G., to Brandin, Charles I., Inc. Hanssen, Peter Hanson, Rolf Carmahan, David, and Chili, Gustaf. Balanced door hanger and closure. 3,456,388, 7-22-69, Cl. 49-252.
Hanson, Roy R. Lubricating hitch ball device. 3,436,101, 4-1-69, Cl. 280-511.
Hanson, Rudolph A.; and Deptula, Frank J., to Yard-Man, Inc. Self-propelled mower. 3,445,991, 5-27-69, Cl. 56-25.4
Hanson, Rudolph A.; and Fischer, John E., to Yard-Man, Inc. Rotary mower blade. 3,445,992, 5-27-69, Cl. 56-295.
Hanson, Rudolph A.; Ziegler, Edward J.; and Fischer, John E., to Yard-Man, Inc. Riding lawn mower. 3,466,855, 9-16-69, Cl. 56-25.4
Hanson, Sherwood M. Alignment gauge for casting patterns. 3,465,451, 9-9-69, Cl. 33-180.
Hanson Silo Company: *See*—
Hanson, Newell B., 3,451,566.
Hanson, Victor W.: *See*—
Arnold, Orlan M.; Hanson, Victor W.; Jamison, Robert M.; Panzica, Nicholas J.; and Umbricht, Emil,3,475,881.
Hanson, Walter J., to Pitney-Bowes, Inc. Sheet feed device for photocopy machine. 3,438,707, 4-15-69, Cl. 355-14.
Hanson, Walter J., to Pitney-Bowes, Inc. Time control means for copying machines. 3,457,011, 7-22-69, Cl. 355-51.
Hanson, Walter J., to Pitney-Bowes, Inc. Method and apparatus for liquid development of electrostatic images by immersion. 3,468,693, 9-23-69, Cl. 117-37.
Hanson, Walter J.: *See*—
Matkovich, George; and Hanson, Walter J.,3,468,604.
Hanson Whitney Company, The: *See*—
Glenzer, John C., 3,436,086.
Hanson, William H., to Sperry Rand Corporation. Function generator for producing the possible boolean function of 'n' independent variables. 3,458,240, 7-29-69, Cl. 328-92.
Hanson-Van Winkle-Munning Co.: *See*—
McNulty, Joseph V.; and Goodwin, David E., 3,450,892.
Hanssen, Karl-Josef. Corpuscular-ray device for phase or amplitude specimens with a phase-rotating foil. 3,469,096, 9-23-69, Cl. 250-49.5
Hanssen, Peter: *See*—
Hanson, Rolf G.; and Hansen, David G., 3,456,388.
Hanssen, Tore B., to King-Seeley Thermos Co. Electric heating oven with browning control. 3,467,308, 9-16-69, Cl. 236-15.
Hansson, Margaret S. Device for carrying a child on the back. 3,421,670, 1-14-69, Cl. 224-6.
Hansson, Rune Einar: *See*—
Holm, Kurt Anders; and Hansson, Rune Einar,3,479,252.
Hantack, Melvin E., to McQuay-Norris Manufacturing Company. Ignition system. 3,446,565, 5-27-69, Cl. 431-70.
Hantel, Alwin K.: *See*—
Wenzel, Alfred J.; and Hantel, Alwin K.,3,467,424.
Hantman, Lionel L.; Lutz, Eugene F.; and Schroeder, George A., to Gillette Company, The. Hair styling device. 3,474,795, 10-28-69, Cl. 132-11.
Hantusch, Gerald H.: *See*—
Davidson, Ian A.; Hantusch, Gerald H.; and May, George A.,3,423,822.
Hantzer, Pierre; and Picard, Jean, to Societe Rhodiaceta. Process for rendering glass and polyesters adhesive to rubber. 3,460,973, 8-12-69, Cl. 117-76.
Hanyu, Susumu, to Janome Sewing Machine Co., Ltd. Pattern cam selecting arrangement. 3,433,092, 3-18-69, Cl. 74-568.
Hanyu, Susumu; and Kasuga, Noboru, to Janome Sewing Machine Co. Ltd. Feed control apparatus for a sewing machine. 3,426,712, 2-11-69, Cl. 112-210.
Hanzawa, Toru: *See*—
Takahashi, Ryosetsu; and Hanzawa, Toru,3,464,312.
Hanze, Arthur R.; and Camiener, Gerald W., to Upjohn Company, The. Hydrogenated pyrimidine nucleosides and nucleotides. 3,462,416, 8-19-69, Cl. 260-211.5
Hanzi, Carl Wesley; and Hayden, Gordon Francis, to Borg-Warner Corporation. Transmission controls. 3,438,285, 4-15-69, Cl. 74-869.
Hanzlicek, Jiri: *See*—
Barta, Jiri; Fechtner, Jan; Hanzlicek, Jiri; Verner, Miroslav; and Vesely, Dobromil,3,464,919.
Happe, Reynold; and von Rymon, Werner, deceased0 (by von Rymon, Karola, executrix), to Singer Company, The. Buttonhole attachment for sewing machines. 3,421,463, 1-14-69, Cl. 112-77.
Happe, Ulrich. Synthesis gas plant. 3,424,371, 1-28-69, Cl. 230-43.
Happel, Hermann E.; and Mitter, Laurence J., to Jenn-Air Corporation. Method of an air cooled apparatus for the open air cooking of edibles. 3,444,805, 5-20-69, Cl. 99-340.
Happel, John; and Blanck, Hillard, to National Lead Company. Method of measuring the activity of a carbonylation reaction. 3,420,753, 1-7-69, Cl. 204-1.
Happel, William E., to Landis Tool Company. Rotary locator for crankshafts. 3,427,760, 2-18-69, Cl. 51-237.
Happold, Manfred R., to Link Engineering Company. Brake lining testing machine. 3,451,253, 6-24-69, Cl. 73-9.
Happy Company, The: *See*—
Nihlen, Arvid C. K.; and Dorsey, Walter, 3,468,372.
Urner, Jimmie L., 3,420,296.
Har-Will Corporation: *See*—
Heier, William, 3,483,811.
Hara, Hajime: *See*—
Miyoshi, Mitsuji; Imai, Hirosuke; Otsuki, Yutaka; and Hara, Hajime,3,483,176.
Hara, Hikoharu: *See*—
Shiba, Keisuke; and Hara, Hikoharu,3,468,666.
Hara, Hiromasa, to Tokyo Rope Manufacturing Co., Ltd. Method of making a linear weight member. 3,468,012, 9-23-69, Cl. 29-400.
Hara, Isao: *See*—
Okazaki, Masao; Mori, Atsuo; Toda, Namihiro; and Hara, Isao,3,487,128.
Hara, Junji: *See*—
Watanabe, Hiroshi; Ozaki, Masami; and Hara, Junji,3,435,098.
Hara, Kazumasa: *See*—
Nakajima, Yoshihiko; and Hara, Kazumasa,3,447,499.
Hara, Tadataka, 1/2 to Kaken Kagaku Kabushiki Kaisha. Gauche form succinic acid. 3,444,195, 5-13-69, Cl. 260-537.
Hara, Tadataka, to Kaken Kagaku Kabushiki Kaisha. Method of deodorizing amine-containing material utilizing cis-succinic acid of Gauche form. 3,459,491, 8-5-69, Cl. 21-55.
Hara, Yoichiro: *See*—
Ito, Shoichi; Kawamoto, Ichiro; and Hara, Yoichiro,3,431,188.
Ito, Yoshikazu; Wakamatsu, Shigeru; Hara, Yoichiro; and Morino, Jiro,3,479,264.
Harada, Haruo: *See*—
Ariga, Kinji; Takamizawa, Minoru; Harada, Haruo; Komiya, Akitoshi; Takaya, Seiki; and Umemura, Mitsuo,3,454,616.
Harada, Masao; Kai, Mitoshi; and Sagawa, Yasuyuki, to Honda Giken Kogyo Kabushiki Kaisha. Link chain. 3,421,313, 1-14-69, Cl. 59-78.
Harada, Tadamasa; and Omura, Isao, to Asahi Kasei Kogyo Kabushiki Kaisha. Carboxy-terminated composite rocket propellant and process for producing using an amide additive. 3,476,622, 11-4-69, Cl. 149-19.
Harada, Yuichi: *See*—
Konishi, Hikoichi; Harada, Yuichi; Sunahara, Tamotsu; Sakaguchi, Yasuhiro; and Ishihara, Tetsuo,3,459,591.
Harasaki, Minoru: *See*—
Iida, Takahiko; Nobata, Akio; Harasaki, Minoru; and Kumazawa, Hirashi,3,431,400.
Harasymiak, Joseph. Elecrical switches. 3,440,380, 4-22-69, Cl. 200-156.
Harautuneian, Andrew, to American Hospital Supply Corporation, mesne. Medical catheter with balloon leakage indicator. 3,426,758, 2-11-69, Cl. 128-349.
Harautuneian, Andrew, to American Hospital Supply Corporation, mesne. Medical catheter with plastic balloon requiring low inflation force and method of making same. 3,452,756, 7-1-69, Cl. 128-349.
Harbach, Arthur John: *See*—
Woodhouse, Dennis; and Harbach, Arthur John,3,475,188.
Harbard, Edward H., to Smith, T. J., & Nephew Limited. Adhesive surgical and other tapes, plasters, bandages, dressings and the like. 3,457,919, 7-29-69, Cl. 128-156.

Harbard, Edward H.; and Stephenson, Arthur R., to Smith, T. J., & Nephew Limited. Manufacture of microporous sheet plastic material. 3,424,824, 1-28-69, Cl. 264-23.
Harbaugh, Arthur G.: *See—*
Miller, Joseph N.; and Harbaugh, Arthur G.,3,452,984.
Miller, Joseph N.; and Harbaugh, Arthur G.,3,467,377.
Harbaugh, Samuel S.: *See—*
Lajoie, Peter A.; and Harbaugh, Samuel S.,3,427,562.
Harbaugh, Samuel S., to Allegheny Ludlum Steel Corporation. Automatic determination of arc furnace operating state. 3,432,604, 3-11-69, Cl. 13-13.
Harbaugh, Samuel S., to Allegheny Ludlum Steel Corporation. Automatic start circuit for computer. 3,470,538, 9-30-69, Cl. 340-172.5
Harbaugh, Theodore L., to Omco Chemical Corporation. Metering device for soluble materials. 3,425,809, 2-4-69, Cl. 23-272.7
Harbaugh, Watson D.: *See—*
Litt, Peter S., 3,445,000.
Harbaugh, Willis E., to United States of America, Atomic Energy Commission. Thermionic converter. 3,426,221, 2-4-69, Cl. 310-4.
Harbeck, Charles L.; and Sellon, Raymond N., Jr., to Stolper Industries, Inc. Vehicle cab ventilator. 3,486,436, 12-30-69, Cl. 98-2.
Harbeck, Charles L.: *See—*
Wendt, David W.; Harbeck, Charles L.; and Sellon, Raymond N., Jr.,3,450,430.
Harbeke, Gerold J. Adjustable commode. 3,457,571, 7-29-69, Cl. 4-252.
Harbertson, Grant J. Guide unit for sliding doors. 3,454,979, 7-15-69, Cl. 16-90.
Harbison-Walker Refractories Company: *See—*
Garber, John A.; Leaman, Theodore R.; and Skelly, David C., 3,421,749.
Napora, Nicholas, 3,429,565.
Weaver, Ernest P., 3,483,026.
Harbolt, Bruce A., to Union Oil Company of California. Fertilizer applicator and process. 3,435,785, 4-1-69, Cl. 111-6.
Harbott, Norman Richard, to Measuring & Scientific Equipment Limited. Load carriers and centrifuges. 3,454,217, 7-8-69, Cl. 233-26.
Harbour, Philip F., to Westinghouse Electric Corporation. Refrigeration defrost control responsive to operation of compartment air circulating fan. 3,436,929, 4-8-69, Cl. 62-155.
Harbour, Wilmer Paul, Jr.; and Horlander, James F. (Frank J.), to International Business Machines Corporation. Protection from signal flutter on turn off. 3,452,151, 6-24-69, Cl. 178-3.
Harburger Fettchemie Brinckman & Mergell GmbH: *See—*
Baltes, Josef; Weghorst, Frierich; and Wechmann, Otto, 3,441,577.
Baltes, Josef; Weghorst, Friedrich; and Makus Zdzislaw, 3,472,816.
Harclerode, John R.: *See—*
Haase, Victor H.; and Harclerode, John R.,3,464,737.
Harco Corporation: *See—*
Hosford, Harry W., 3,475,311.
Husock, Bernard, 3,448,033.
Mathews, James A., 3,424,665.
Harco Electronics Ltd.: *See—*
Settler, Morris; and Settler, Bert, 3,444,856.
Hard af Segerstad, Carl-Gustaf. Variable speed transmission. 3,477,300, 11-11-69, Cl. 74-112.
Hard Af Segerstad, Goran J. Fr. Curtain clasp for draping and hanging curtains. 3,427,678, 2-18-69, Cl. 16-87.4
Hard Metals Limited: *See—*
Bingham, Henry, 3,473,591.
Hard, Robert A., to Union Carbide Corporation. Ferro alloy casting process. 3,483,916, 12-16-69, Cl. 164-122.
Hardaway, Fred W.: *See—*
Kennedy, William A.; and Hardaway, Fred W.,3,475,703.
Hardaway, Fred W., to Collins Radio Company. Continuous hemispherical contour limit switch for antenna. 3,421,095, 1-7-69, Cl. 325-149.
Hardaway, Fred W., to Collins Radio Company. Extreme parameter search control system. 3,466,430, 9-9-69, Cl. 235-150.1
Hardcastle, Glenn A., Jr.: *See—*
Johnson, David A.; and Hardcastle, Glenn A., Jr.,3,472,841.
Harde, Rudolf: *See—*
Dreyer, Siegfried; Harde, Rudolf; Jansing, Walter; Kalkoffen, Friedel; Mausbeck, Hans; and Schnittker, Werner,3,438,431.
Hardee, Walter D.: *See—*
McGill, Robert W.; and Hardee, Walter D.,3,431,831.
Harden, Nat A.: *See—*
Brandon, Clarence W., 3,438,352.
Harden, Phillip L.: *See—*
Buuck, Frederick A.; Harden, Phillip L.; and Thomas, Samuel M., Jr.,3,478,349.
Harder, Arthur J.: *See—*
Carbary, Richard J.; and Harder, Arthur J.,3,440,308.
Harder, John E., to Westinghouse Electric Corporation. Submersible lightning arrester for cable circuits. 3,469,146, 9-23-69, Cl. 317-61.
Harder, John R., to Mahaffy & Harder Engineering Company. Automatic packaging apparatus with removable die covering. 3,474,591, 10-28-69, Cl. 53-112.
Harder, Robert Junior, to Du Pont de Nemours, E. I., and Company. Thermal isomerization of 1,4-dienes. 3,472,908, 10-14-69, Cl. 260-680.
Harder, Robert L.: *See—*
Cann, Gordon L.; and Harder, Robert L.,3,437,871.
Cann, Gordon L.; and Harder, Robert L.,3,449,628.
Cann, Gordon L.; and Harder, Robert L.,3,453,469.
Cann, Gordon L.; and Harder, Robert L.,3,453,474.
Cann, Gordon L.; and Harder, Robert L.,3,453,488.
Cann, Gordon L.; and Harder, Robert L.,3,453,489.
Cann, Gordon L.; Harder, Robert L.; and Jacobs, Paul F.,3,462,622.
Hardesty, Benjamin T.; and Sarah, Thomas F., to Pflueger Corporation. Butt extension for a fishing rod. 3,468,052, 9-23-69, Cl. 43-23.
Hardesty, George K. C. Ratio spectroradiometer. 3,432,243, 3-11-69, Cl. 356-176.
Hardesty, George K. C. Illuminating apparatus. 3,486,261, 12-30-69, Cl. 40-130.
Hardesty, Thomas K. C. Multiple image and legend display means. 3,423,865, 1-28-69, Cl. 40-130.
Hardico Manufacturing Company: *See—*
Dyer, James W.; Musig, Morris D.; and Compton, Asa Berkeley, 3,455,049.
Hardigg, James S. Method of makig a shock isolator element for cushioned container unit. 3,445,553, 5-20-69, Cl. 264-45.
Hardiman, Russell J., to Standard Pressed Steel Co. Threaded fastener testing apparatus. 3,440,869, 4-29-69, Cl. 73-89.
Hardin, James Theodore; and Lovrenich, Rodger Thomas, to Eltra Corporation. Electronic conductor detector and indicator. 3,473,110, 10-14-69, Cl. 324-34.
Hardin, N. A.,: *See—*
Brandon, Clarence W., 3,422,894.
Hardin, William W., to International Business Machines Corporation. Apparatus for reading marks on documents. 3,433,933, 3-18-69, Cl. 235-61.11
Harding, Arthur J. 1.1-2% Alkaline earth hydroxide modification of wool at 120-150° F for under 15 minutes. 3,447,890, 6-3-69, Cl. 8-128.
Harding, David B., to Sani-Jon of America, Inc. Portable toilet. 3,435,464, 4-1-69, Cl. 4-111.
Harding, David B., to Sani-Jon of America, Inc. Portable toilet cabana. 3,447,167, 6-3-69, Cl. 4-116.
Harding, David G., to Boeing Company, The. Weight indicating mechanism. 3,469,644, 9-30-69, Cl. 177-136.
Harding, George D.; and Storm, Howard L., to General Electric Company. Charging and triggering circuits for pulsed electrical devices such as flash lamps. 3,475,651, 10-28-69, Cl. 315-242.
Harding, Gordon Thomas, to English Electric Company Limited, The. Combustion equipment. 3,451,216, 6-24-69, Cl. 60-39.65
Harding, James L.: *See—*
Hill, Jack O.; and Harding, James L.,3,423,945.
Harding, John James, to Conder International Limited. Ceiling system. 3,440,789, 4-29-69, Cl. 52-475.
Harding, John; Placzek, Peter; and Campbell, Sidney Glenroy, to Universal Highway (Contracting) Limited. Self-propelled apparatus for applying markings to roads and the like. 3,477,352, 11-11-69, Cl. 94-44.
Harding, Keith: *See—*
Nash, Geoffrey James Chetewoode; and Harding, Keith,3,432,666.
Harding, Philip A., to Bell Telephone Laboratories, Incorporated. Drive current optimization for magnetic memory systems. 3,467,953, 9-16-69, Cl. 340-174.
Harding, Philip A.: *See—*
Genke, Richard M.; and Harding, Philip A.,3,484,763.
Harding, Ray S., to Case, J. I., Company. O-ring assembly tool. 3,455,011, 7-15-69, Cl. 29-235.
Harding, William E.; Perri, John A.; Riseman, Jacob; and Ruder, Winfield S., to International Business Machines Corporation. High resolution multiple image camera and method of fabricating integrated circuit masks. 3,449,049, 6-10-69, Cl. 355-53.
Hardinge Brothers, Inc.: *See—*
Kilmer, William A., 3,422,710.
Parsons, Hubert J.; and Cunningham, Henry L., 3,464,292.
Hardison, Adam M. Apparatus for processing liquid food products. 3,480,451, 11-25-69, Cl. 99-234.
Hardison, Leslie C., to Universal Oil Products Company. Catalytic treatment of vent gases containing ammonia. 3,467,491, 9-16-69, Cl. 23-2.
Hardison, Leslie C., to Universal Oil Products Company. Process for producing nitric acid. 3,473,893, 10-21-69, Cl. 23-162.
Hardison, Leslie C., to Universal Oil Products Company. Method and apparatus for alternately heating and cooling by indirect heat transfer. 3,476,176, 11-4-69, Cl. 165-2.
Hardison, Leslie C., to Universal Oil Products Company. Selective removal of oxygen from a hydrogen- ethylene stream. 3,480,384, 11-25-69, Cl. 23-2.

Hardison, Leslie C.; and Hable, William L., to Universal Oil Products Company. Method and means for thermal incineration of a contaminated air stream. 3,484,189, 12-16-69, Cl. 23-2.

Hardisty, John A.: *See—*
Richardson, Howard Eugene; and Hardisty, John A.,3,485,599.

Hardman & Holden Limited: *See—*
Harson, Samuel Edward; and Fogg, Edward, 3,467,683.
Turner, John Harry Wallice; and Harson, Samuel Edward, 3,461,146.
Turner, John Harry Wallice; Frith, England; and Krug, Pavel, 3,481,828.

Hardman Aerospace: *See—*
Del Giudice, Frank J., 3,480,240.
Karlsen, Asjorn, 3,439,889.

Hardman, Donald E.: *See—*
Comstock, Lowell R.; Hardman, Donald E.; and Brezinski, Julius J.,3,472,914.

Hardman Incorporated: *See—*
Hardman, Kenneth V., 3,472,809.

Hardman, James Maurice: *See—*
Loukes, David Gordon; and Hardman, James Maurice,3,453,095.

Hardman, Kenneth V., to Hardman Incorporated. Curable composition for flexible molds. 3,472,809, 10-14-69, Cl. 260-31.8

Hardman, Roland, to National Research Development Corporation. Extraction of sapogenins from vegetable materials. 3,449,328, 6-10-69, Cl. 260-239.55

Hardman, Roland, to National Research Development Corporation. Extraction of sapogenins from vegetable materials. 3,449,760, 6-10-69, Cl. 260-239.55

Hardt, Dietrich; and Bartl, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Grafts of vinylchloride upon partially saponified ethylene-vinylester copolymers. 3,454,674, 7-8-69, Cl. 260-878.

Hardt, Ivan E.: *See—*
Hovenga, La Vern B.; Hardt, Ivan E.; Kidman, Ronald D.; and Gruen, Harold E.,3,428,916.

Hardtmann, Goetz E., to Sandoz Inc. Asymmetrical triazines. 3,459,750, 8-5-69, Cl. 260-248.

Hardtmann, Goetz E.; and Ott, Hans, to Sandoz, Inc.5,6,7,9,10,14b-Hexahydroisoquinolo [2,1-d] benzo [1,4] diazepines. 3,435,038, 3-25-69, Cl. 260-286.

Hardtmann, Goetz E.; and Ott, Hans, to Sandoz, Inc. Preparation of isoquinolines. 3,435,040, 3-25-69, Cl. 260-288.

Hardtmann, Goetz E.; and Ott, Hans, to Sandoz, Inc. Substituted 2-nitrobenzophenones. 3,465,042, 9-2-69, Cl. 260-591.

Hardtmann, Goetz E.; and Ott, Hans, to Sandoz Inc. 4-Amino-substituted quinazolines. 3,470,182, 9-30-69, Cl. 260-256.4

Hardway, Edward V., Jr., to Bausch & Lomb Incorporated, mesne. Drive mechanism. 3,475,763, 10-28-69, Cl. 346-136.

Hardwick, Geoffrey H. E., to Engelhard Hanovia of Canada Limited. Ultra-violet radiation fluid sterilizer having means for discharging the fluid free of contamination. 3,433,946, 3-18-69, Cl. 250-43.

Hardwick, John Gordon, to Imperial Metal Industries (Kynoch) Limited. Method of making a corrugated tube of fiber- reinforced plastic material. 3,436,289, 4-1-69, Cl. 156-175.

Hardwick, John Gordon, to Imperial Metal Industries (Kynoch) Limited. Article and method of bonding reinforced rings to tubular articles. 3,457,963, 7-29-69, Cl. 138-172.

Hardwick Stone Company: *See—*
Berlik, Leroy J., 3,442,261.

Hardwick, Thomas C., Jr. Marine float construction. 3,448,709, 6-10-69, Cl. 114-0.5

Hardwick, Thomas J.; and Jarvie, John M., to Gulf Research & Development Company. Photolytic condensation of saturated hydrocarbons with polychlorinated olefins. 3,458,416, 7-29-69, Cl. 204-163.

Hardwick, William Horton: *See—*
Simpson, Malcolm Patrick; Hardwick, William Horton; Blundy, Peter Desmond; and Morris, David Rowland,3,431,071.

Hardy, Albert L., to General Electric Company. Thrust bearing. 3,423,138, 1-21-69, Cl. 308-132.

Hardy, Albert L., to General Electric Company. Reversing spray head assembly for automatic dishwasher. 3,447,752, 6-3-69, Cl. 239-251.

Hardy, Arthur H., Jr.: *See—*
Gobeli, David H.; and Hardy, Arthur H., Jr.,3,436,647.

Hardy, Denis Geoffrey: *See—*
Bentley, Kenneth Walter; Hardy, Denis Geoffrey; and Smith, Alan Charles Brandon,3,464,994.

Hardy, Derek James; and Riddle, Lavis Albert Henry, to British Hovercraft Corporation Limited, mesne. Cushion supported vehicles with extensible base area. 3,467,215, 9-16-69, Cl. 180-128.

Hardy, Derek James; and Riddle, Lavis Albert Henry, to British Hovercraft Corporation Limited. Air cushion vehicle having a flexible skirt provided with automatic air lubrication means. 3,469,650, 9-30-69, Cl. 180-128.

Hardy, Edgar E.: *See—*
Aykanian, Ardashus A.; and Hardy, Edgar E.,3,451,103.
Biles, James R.; Brennan, Wendell E.; Alexander, Stephen H.; and Hardy, Edgar E.,3,470,016.

Hardy, Edgar E., to Mobay Chemical Company. Process for producing a smooth impervious skin on the surface of a resilient sheet of foamed plastic. 3,443,007, 5-6-69, Cl. 264-321.
Fantl, Joel; Hahn, Frank J.; Hardy, Edgar E.; and Heaps, John F.,3,434,989.
Russell, David A.; and Hardy, Edgar E.,3,444,036.

Hardy, Frank M., to Haver-Lockhart Laboratories, Incorporated. Injectable reconstituted collagen fluid adjuvant for vaccines and other drugs. 3,469,003, 9-23-69, Cl. 424-89.

Hardy, George F.: *See—*
Wagner, Herman L.; and Hardy, George F.,3,450,665.

Hardy, Harold Kenyon; and Jones, Cecil Henry, to United Kingdom Atomic Energy Authority. Hydrostatic extrusion apparatus. 3,440,849, 4-29-69, Cl. 72-60.

Hardy, Jean Marie; and Lacombe, Henry Marie Andre Rene, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Ejecting nozzle for propellers provided with a plurality of driving streams and, more particularly, two driving streams. 3,432,100, 3-11-69, Cl. 239-127.3

Hardy, John F.; and Doppler, Leonard H., to Cabot Corporation. Method for reducing the pyrophoricity of metallic powders. 3,480,425, 11-25-69, Cl. 75-0.5

Hardy, John F.: *See—*
Jordan, Merrill E.; and Hardy, John F.,3,433,660.

Hardy, John L., to Dow Chemical Company, The. Controlling gastropods with nicotinanilide or alkylaryl nicotinamide gastropodicides. 3,462,532, 8-19-69, Cl. 424-266.

Hardy, Kenneth David; Nayler, John Herbert Charles; and Stove, Edward Raymond, to Beecham Group Limited. Betaine penicillin derivatives. 3,448,104, 6-3-69, Cl. 260-239.1

Hardy, Robert Allis, Jr.: *See—*
Brown, John Johnston; and Hardy, Robert Allis, Jr.,3,474,102.
Brown, John Johnston; and Hardy, Robert Allis, Jr.,3,474,103.
Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones,3,444,169.
Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones,3,458,516.

Hardy, Robert G.: *See—*
Paddock, David A.; and Hardy, Robert G.,3,463,006.

Hardy, Robert W.: *See—*
Greer, Albert H.; and Hardy, Robert W.,3,428,514.

Hardy Scales Company: *See—*
Smith, Darrell E., 3,472,329.

Hardy, William Baptist; and Bennett, Robert Putnam, to American Cyanamid Company. Isocyanate process. 3,461,149, 8-12-69, Cl. 260-453.

Hardy, William Baptist; and Bennett, Robert Putnam, to American Cyanamid Company. Conversion of nitroso compounds to isocyanates. 3,467,687, 9-16-69, Cl. 260-453.

Hardy, William Baptist; and Bennett, Robert Putnam, to American Cyanamid Company. Process for producing urethanes. 3,467,694, 9-16-69, Cl. 260-471.

Hardy, William C.; and Shepard, John C., to Sun Oil Company. In situ combustion method. 3,452,816, 7-1-69, Cl. 166-11.

Hardy, Wilton A., to International Business Machines Corporation. Optical scanning techniques employing an optical cavity including two reflectors and a focussing objective. 3,432,771, 3-11-69, Cl. 331-94.5

Hare, Alan Lawrence, to British Titan Products Company Limited. Process for initiating an arc between electrodes in a plasma gun. 3,448,333, , Cl. 315-111.

Hare, Alan Lawrence: *See—*
Herriman, John Dennis; and Hare, Alan Lawrence,3,464,792.

Hare, George Frank. System for discharging liquid under pressure. 3,421,548, 1-14-69, Cl. 137-563.

Hare, George; and Kowalick, James F., to United States of America, Army. Recoilless explosive rivet. 3,483,791, 12-16-69, Cl. 85-37.

Hare, Glenn F., to Dyna-Med, Inc., mesne. Combined splint and traction device. 3,477,428, 11-11-69, Cl. 128-85.

Hare, Lloyd E.; and Rosborg, Daniel J., to Litton Business Systems, Inc. Fixed time delay for carriage return mechanism. 3,438,476, 4-15-69, Cl. 197-65.

Hare, Lloyd H., to Litton Business Systems, Inc. Automatically disabled backspace mechanism. 3,432,019, 3-11-69, Cl. 197-91.

Hare, Maurice J., to Lukens Steel Company. Jig for precision refractory cutting. 3,463,137, 8-26-69, Cl. 125-35.

Hare, Weston Andrew, to Du Pont de Nemours, E. I., and Company. Process for making porous, lightweight zirconia bodies. 3,421,914, 1-14-69, Cl. 106-40.

Harelson, Robert G.; and Flynn, Kenneth L., to Emerson Electric Co. Automatic winding form assembly and machine. 3,464,639, 9-2-69, Cl. 242-1.1

Haren, Ralph J.: *See—*
Shaff, Gerald H.; Smith, Frank R.; Haren, Ralph J.; and Chiappe, Orlando J.,3,479,725.

Harendza-Harinxma, Alfred J., to Western Electric Company, Incorporated. Electrolyte and method for anodizing film forming metals. 3,445,353, 5-20-69, Cl. 204-56.

Hares, George B.: *See—*
Connelly, John H.; and Hares, George B.,3,464,932.

Harff, Gunter; and Grossman, Leonard A. Barbecue grills. 3,452,736, 7-1-69, Cl. 126-25.
Harford, Jack R., to Aircraft Radio Corporation. Logarithmic signal compressor. 3,479,525, 11-18-69, Cl. 307-235.
Harfst, Ernest D.: *See—*
McDonald, Harrison M.; and Harfst, Ernest D.,3,483,312.
Hargasser, Hans: *See—*
Meer, Winfried; and Hargasser, Hans,3,428,873.
Meer, Winfried; Hargasser, Hans; and Schembs, Wolfgang,3,450,964.
Ruchardt, Hugo; Hargasser, Hans; and Meer, Winfried,3,480,845.
Hargens, Charles W., III; and Field, Richard H., to Pennsylvania Lions Sight Conservation and Eye Research Foundation, Inc. Apparatus for measuring stress-strain characteristics. 3,452,589, 7-1-69, Cl. 73-80.
Hargest, Thomas Sewell, III: *See—*
Brown, Malcolm Neal; Hargest, Thomas Sewell, III; and Stoltz, Herbert Collier,3,449,952.
Hargest, Thomas Sewell, to Bio-Medical Systems, Inc. Permanent skin exit device. 3,461,869, 8-19-69, Cl. 128-214.
Hargest, Thomas S.; Artz, Curtis P.; Thompson, Charles D.; and Blocker, Truman G., Jr., said Thompson and said Blocker assors. to said Hargest and said Artz. Fluidized supporting apparatus. 3,428,973, 2-25-69, Cl. 5-347.
Harget, Paul J.; and Sturgill, Dennis T., to Owens-Illinois, Inc. Thermistors. 3,479,631, 11-18-69, Cl. 338-22.
Hargett, Lawrence W. Web drying apparatus having multiple hot air nozzles and exhaust outlets. 3,435,538, 4-1-69, Cl. 34-114.
Hargis, Charles W., to Eastman Kodak Company. Method for the preparation of esters of unsaturated acids from the corresponding nitriles. 3,466,320, 9-9-69, Cl. 260-486.
Hargis, Charles W.; and Young, Howard S., to Eastman Kodak Company. Method for preparing polycyclic heterocyclic compounds. 3,441,569, 4-29-69, Cl. 260-319.1
Hargis, Charles W.; and Young, Howard S., to Eastman Kodak Company. Manufacture of 1,2-bis(aryl)ethylenes. 3,476,747, 11-4-69, Cl. 260-240.
Hargis, Charles W.; and Young, Howard S., to Eastman Kodak Company. Preparation of quinones. 3,479,374, 11-18-69, Cl. 260-396.
Hargis, Charles W.; and Young, Howard S., to Eastman Kodak Company. Process for converting ethylenically unsaturated hydrocarbons to carbonylic compounds. 3,485,877, 12-23-69, Cl. 260-604.
Hargis, Charles W.; Young, Howard S.; and Reynolds, Jefferson Wayne, to Eastman Kodak Company. Catalytic synthesis of ketones from aldehydes. 3,453,331, 7-1-69, Cl. 260-593.
Hargis, Robert N., to Motorola, Inc. Wave guide coupling structure with tuning means. 3,428,921, 2-18-69, Cl. 333-33.
Hargrave, Kenneth Raymond, to BP Chemicals (U.K.) Limited. Production of 3,4-lutidine. 3,472,860, 10-14-69, Cl. 260-290.
Hargreaves, Derek B.; Staniforth, Eric; and Goostrey, Roy. Variable speed gears. 3,447,391, 6-3-69, Cl. 74-125.5
Hargreaves, Derek Burtt; and Staniforth, Eric. Distributors. 3,448,899, 6-10-69, Cl. 222-177.
Hargrove, James L., to Computing Devices of Canada Limited. Synchro to digital converter using storage capacitors and sampling circuits. 3,482,242, 12-2-69, Cl. 340-347.
Hargrove, Logan E.: *See—*
Courtney-Pratt, Jeofry S.; and Hargrove, Logan E.,3,435,230.
Hargrove, Sanford L. Bi-fold door closer. 3,437,125, 4-8-69, Cl. 160-193.
Hargrove, William W., to Lilly, Eli, and Company. Azetidinones. 3,481,920, 12-2-69, Cl. 260-239.
Hari, Istvan; and Staeuble, Max, to Ciba Limited. Anthraquinone vat dyestuffs. 3,483,230, 12-9-69, Cl. 260-368.
Hari, Istvan: *See—*
Ronco, Karl; and Hari, Istvan,3,480,625.
Haring, Henri: *See—*
Frossard, Remy; Hetzel, Max; Robert, Henri; and Haring, Henri,3,446,006.
Hetzel, Max; Haring, Henri; and Robert, Henri,3,428,937.
Hetzel, Max; Haring, Henri; and Robert, Henri,3,481,137.
Haring, Lewis L.; and Oppen, Walter R., to Sperry Rand Corporation. Automatic resetting means for transformer energized by asymmetrical waveforms. 3,437,910, 4-8-69, Cl. 322-2.
Haring, Marc; Molnar, Istvan; and Wagner-Jauregg, Theodor, to Siegfried Aktiengesellschaft. Treatment of depression with 5,5-dialkyl N- alkylaminoalkyl acridans. 3,431,342, 3-4-69, Cl. 424-250.
Haritatos, Nicholas J.; and Harvey, Phillip D., to Chevron Research Company. Sulfur recovery. 3,463,611, 8-26-69, Cl. 23-225.
Hariu, Hiroshi: *See—*
Asami, Ko; and Hariu, Hiroshi,3,465,076.
Harkay, Gabriel J., to Cubic Corporation. Liquid measuring dispenser. 3,429,485, 2-25-69, Cl. 222-442.
Harke, Otto. Valve-controlled mixing with upstream heat exchanger. 3,454,082, 7-8-69, Cl. 165-166.
Harker, Hallace W. Starter for siphon pipe. 3,472,266, 10-14-69, Cl. 137-142.
Harker, Howard R.: *See—*
Hanks, Charles W.; and Harker, Howard R.,3,450,824.
Harker, James Lincoln; and Kendall, Robert T., to Litton Systems, Inc. Time delay circuit breaker with short-circuit bypass. 3,465,206, 9-2-69, Cl. 317-13.
Harker, Robert I.; and Pellicane, Joseph P., Jr., to Johns-Manville Corporation. Cation exchange process. 3,428,568, 2-18-69, Cl. 252-301.1
Harker, William S., to Bellco Glass, Inc. Decontamination unit. 3,474,929, 10-28-69, Cl. 220-19.
Harkess, Andrew J., to Hewitt-Robins, Incorporated. Suspended conveyor. 3,442,369, 5-6-69, Cl. 198-184.
Harkey, Johnny D., to Cannon Mills Company. Shuttleless terry loom warp shedding means and method. 3,434,504, 3-25-69, Cl. 139-25.
Harkey, Johnny D., to Cannon Mills Company. Terry warp feeding method and apparatus. 3,463,198, 8-26-69, Cl. 139-25.
Harkins, George T., to Miro-Flex Company, Inc. Highway warning signal. 3,444,838, 5-20-69, Cl. 116-63.
Harkins, James L.: *See—*
Stefan, Frank N.; and Harkins, James L.,3,458,056.
Harkins, Samuel J., to Leeds & Northrup Company. Three-pen chart recorder with individual pen lifting mechanisms. 3,454,952, 7-8-69, Cl. 346-17.
Harklau, Lanny L.: *See—*
Kulp, Karl T.; and Harklau, Lanny L.,3,465,314.
Harklau, Lanny L., to Sperry Rand Corporation. Memory apparatus and method. 3,431,491, 3-4-69, Cl. 324-68.
Harklau, Lanny L.; and James, Raymond H., to Sperry Rand Corporation. Detector for a search memory. 3,432,821, 3-11-69, Cl. 340-174.
Harkness, Duane E., to Hoerner-Waldorf Corporation. Packaging apparatus. 3,452,514, 7-1-69, Cl. 53-374.
Harkness, Joseph R., to Briggs & Stratton Corporation. Vibration absorbing mounting for single-cylinder vertical shaft engine. 3,429,533, 2-25-69, Cl. 248-9.
Harkness, Joseph R., to Briggs & Stratton Corporation. Counterbalance for single-cylinder engines. 3,457,804, 7-29-69, Cl. 74-604.
Harkness, Joseph R.; and Lechtenberg, Leo J., to Briggs & Stratton Corporation. Pull rope type starter for vertical shaft engines. 3,465,740, 9-9-69, Cl. 123-185.
Harkreader, Gordon G.: *See—*
Richardson, Dean E.; and Harkreader, Gordon G.,3,459,719.
Harkulich, Theodore M.: *See—*
Sicka, Richard W.; Rose, Selwyn H.; and Harkulich, Theodore M.,3,445,361.
Harlacher, William H.: *See—*
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B.,3,470,686.
Harlam, Gerald F.; and Okolowicz, Marian A., to Pilling Chain Co., Inc. Method and apparatus for coating articles. 3,421,924, 1-14-69, Cl. 117-66.
Harlamoff, Anatol J.: *See—*
Goodman, Richard E.; Horning, Don O.; and Harlamoff, Anatol J.,3,446,062.
Harlan, David D.: *See—*
Compton, David D.; and Harlan, David D.,3,458,109.
Harlan, Don L., to Texaco Inc. Dynamic seal for drill pipe annulus. 3,472,518, 10-14-69, Cl. 277-31.
Harland, Glen E., Jr.; and Hanson, Charles G., to General Motors Corporation. Generator voltage regulating system. 3,467,853, 9-16-69, Cl. 322-28.
Harland, Glen E., Jr.; and Hanson, Charles G., to General Motors Corporation. Voltage protection circuit for transistor regulators. 3,469,168, 9-23-69, Cl. 320-64.
Harland, Glen E., Jr.; Hanson, Charles G.; and Wiechmann, Eldred H., to General Motors Corporation. Transistor voltage regulator input circuit. 3,467,854, 9-16-69, Cl. 322-28.
Harland, Glen E.: *See—*
Burton, Robert M.; and Harland, Glen E.,3,476,981.
Harland, Philip W.; and Schmaus, Siegfried H. A., to Ametek, Inc. Dispenser valve means. 3,423,064, 1-21-69, Cl. 251-231.
Harley, John. On-off transducer. 3,449,689, 6-10-69, Cl. 330-51.
Harley, Stephen Brian: *See—*
Smith, Frank Burchard; and Harley, Stephen Brian,3,467,220.
Harley-Davidson Motor Co.: *See—*
Seckinger, Albert E., 3,434,887.
Harlin, Lester E., to Borg-Warner Corporation. Mounting arrangement for rotary compressor. 3,476,309, 11-4-69, Cl. 230-235.
Harlin, Lester E., to Borg-Warner Corporation. Lubrication system for rotary compressor. 3,480,204, 11-25-69, Cl. 230-152.
Harlin, Lester E.; and Moore, Walter C., to Borg-Warner Corporation. Oil separator for rotary compressor. 3,478,957, 11-18-69, Cl. 230-207.
Harlow, Earl V., to Koppers Company, Inc. Method for producing coke. 3,444,046, 5-13-69, Cl. 201-6.
Harm, Alson Robert, to Procter & Gamble Company, Inc. Package for cylindrical articles or objects. 3,460,671, 8-12-69, Cl. 206-65.
Harm, Robert L., to General Electric Company. Self-regulating gas generator. 3,453,086, 7-1-69, Cl. 23-282.

Harman, Bennett B.: *See—*
Pollak, Edward C.; Harman, Bennett B.; and Solomon, William,3,435,643.
Harman, Charles K., to Twentieth Century Tool Co., mesne. Grooving tool. 3,451,294, 6-24-69, Cl. 77-58.
Harman, John N., III: *See—*
Watanabe, Hideo; and Harman, John N., III,3,438,875.
Harman, Julius, to Herbert, Alfred, Limited. Manually indexable turret for a machine tool. 3,449,990, 6-17-69, Cl. 82-36.
Harman, Julius, to Herbert, Alfred, Limited. Machine tools with tool change facilities. 3,466,739, 9-16-69, Cl. 29-568.
Harman, Julius, to Herbert, Alfred, Limited. Machine tools provided with automatic tool- change facilities. 3,466,740, 9-16-69, Cl. 29-568.
Harman, Michael Godfrey, to National Cash Register Company, The. Associative magnetic memory devices and matrices. 3,480,927, 11-25-69, Cl. 340-174.
Harmer, David E.; Mount, Ramon A.; and Vanderbush, James J., Jr., to Dow Chemical Company, The. Transbromination process. 3,480,534, 11-25-69, Cl. 204-163.
Harmer, William D., to Giddings & Lewis, Inc. Instrument for checking energization of solenoid valves and position of valve plunger. 3,487,306, 12-30-69, Cl. 324-133.
Harmes, Oren Burton; and Moseley, Karl Wilfred, to Olinkraft, Inc., mesne. Filling device. 3,483,666, 12-16-69, Cl. 53-59.
Harmon , Sherril A.: *See—*
Goshorn, Larry A.; and Harmon , Sherril A.,3,473,161.
Harmon, Allen; and Gause, Benjamin, to Crompton & Knowles Corporation. Weight recorders. 3,430,721, 3-4-69, Cl. 177-2.
Harmon, Carlyle, to Johnson & Johnson. Interlabial pad. 3,420,235, 1-7-69, Cl. 128-290.
Harmon, Carlyle, to Johnson & Johnson. Nonwoven fabric and method of manufacturing the same. 3,485,705, 12-23-69, Cl. 161-59.
Harmon, Donald K., to General Electric Company. Hair treating apparatus. 3,468,319, 9-23-69, Cl. 132-9.
Harmon, Duane D., to Bausch & Lomb Incorporated. Automatic liquid mixing apparatus. 3,437,447, 4-8-69, Cl. 23-253.
Harmon, Edward J., to Micro-poise Engineering and Sales Company. Brake disc and balancing weight. 3,452,845, 7-1-69, Cl. 188-218.
Harmon, Howard I. System and apparatus for erecting moving and dismantling shoring and the like. 3,479,010, 11-18-69, Cl. 254-4.
Harmon, James R.; and Yarbrough, Hodgie L. Automatic aerial distress signal. 3,465,987, 9-9-69, Cl. 244-1.
Harmon, James V. Method and apparatus for towing skiers and the like. 3,473,486, 10-21-69, Cl. 104-173.
Harmon, Leon D., to Bell Telephone Laboratories, Incorporated. Optical measuring apparatus for determining interspatial distances. 3,444,383, 5-13-69, Cl. 250-219.
Harmon, Richard C., to Philco-Ford Corporation, mesne. Microelectronic test probe with defect marker acess. 3,445,770, 5-20-69, Cl. 324-158.
Harmon, Robert W., to Ohio Brass Company, The. Oil-filled cable terminal with conductive, elastomeric stress cone. 3,471,628, 10-7-69, Cl. 174-12.
Harmon, Robert W., to Ohio Brass Company, The. Line post insulator. 3,483,314, 12-9-69, Cl. 174-140.
Harmon, Sherril A.: *See—*
Goshorn, Larry A.; and Harmon, Sherril A.,3,430,209.
Goshorn, Larry A.; and Harmon, Sherril A.,3,439,347.
Goshorn, Larry A.; and Harmon, Sherril A.,3,487,370.
Goshorn, Larry A.; Harmon, Sherril A.; and Erickson, Robert G.,3,470,537.
Harmon, William C.: *See—*
Sower, George W.; and Harmon, William C.,3,447,074.
Harmon, William George; and de Wolf, James L., to Hughes Aircraft Company. RF phase shift power coder. 3,445,772, 5-20-69, Cl. 325-126.
Harmon, William M.: *See—*
Turner, Lloyd Bowman; and Harmon, William M.,3,485,284.
Harmonic Reed Corporation: *See—*
Faulkner, Albert A., 3,454,259.
Faulkner, Albert A., 3,459,406.
Harms, Gordon E., to Honeywell Inc. Control apparatus. 3,473,780, 10-21-69, Cl. 251-76.
Harms, Maximilian; and Wetterholm, Gustav Allan, to Nitroglycerin Aktiebolaget. Method for the manufacture of the fuse head element of electric fuses. 3,421,210, 1-14-69, Cl. 29-623.
Harms, Wolfgang; von Oertzen Klaus; Bein, Hans-Samuel; and Siegel, Edgar, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyestuffs and processes for their production. 3,468,879, 9-23-69, Cl. 260-239.7
Harmsen, Johan L. Support means for a conductor rail. 3,437,765, 4-8-69, Cl. 191-32.
Harmsen, Johan L. Rail fastening means for use in railway tracks. 3,442,452, 5-6-69, Cl. 238-265.
Harmsen, Siegfried: *See—*
Denning, Ralph Murch; Hertel, Heinrich; and Harmsen, Siegfried,3,447,764.
Harmsworth, James R. Method and apparatus for forming plywood panels. 3,438,830, 4-15-69, Cl. 156-300.
Harmuth, Henning, to Battelle-Institut E.V. System for the transmission of information by carrier waves over a single conductor. 3,470,324, 9-30-69, Cl. 179-15.
Harnack, George H.: *See—*
Lawrence, Roland B.; and Harnack, George H.,3,449,708.
Harnau, Han-Dieter, to Rheinmetall G.m.b.H. Detonator generator for a spin-stabilized projectile. 3,470,818, 10-7-69, Cl. 102-70.2
Harnden, John D., Jr., to General Electric Company. Silicon controlled rectifier gating circuits with a high frequency triggering voltage and photocells. 3,459,943, 8-5-69, Cl. 250-208.
Harnden, John D., Jr.: *See—*
Jones, Clifford M.; and Harnden, John D., Jr.,3,432,846.
Watrous, Donald L.; and Harnden, John D., Jr.,3,487,345.
Watrous, Donald Leland; and Harnden, John D., Jr.,3,464,225.
Harned, Roger L., to Commercial Solvents Corporation. Process for the production of glutamic acid. 3,451,891, 6-24-69, Cl. 195-47.
Harned, Roger L., to Commercial Solvents Corporation. Production of riboflavin. 3,475,274, 10-28-69, Cl. 195-28.
Harner, Robert H., to S & C Electric Company. Control and measuring system for high voltage electric power transmission systems. 3,460,042, 8-5-69, Cl. 325-67.
Harney, Frank L., Jr.; and Hoard, Norman F. Flashing signs having transistorized oscillator circuit. 3,427,500, 2-11-69, Cl. 315-200.
Harnisch, Heinz: *See—*
Bender, Ludwig; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl,3,455,811.
Heymer, Gero; Harnisch, Heinz; Hartlapp, Gerhard; and Traulsen, Karl,3,438,725.
Kern, Winfried; Cremer, Joseph; and Harnisch, Heinz,3,476,510.
Mehne, Arthur; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl,3,455,798.
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich, to Knapsack Aktiengesellschaft. Process for the manufacture of magnesium hydrogen-phosphate trihydrate. 3,433,586, 3-18-69, Cl. 23-109.
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich, to Knapsack Aktiengesellschaft. Process for stabilizing dicalcium phosphate dihydrate. 3,464,786, 9-2-69, Cl. 23-108.
Harnischfeger Corporation: *See—*
Baron, Henry A., 3,486,574.
Bollinger, John G.; Stankey, Michael A.; and Harrison, Howard L., 3,452,180.
Dechantsreiter, Max J., 3,478,907.
Schmid, Gerald E.; and Parez, James J., 3,423,618.
Schneider, Karl, 3,463,338.
Harnish, Eugene E., to Bendix Corporation, The. Laminated segmented rotor. 3,426,871, 2-11-69, Cl. 188-218.
Harnish, James R., to Westinghouse Electric Corporation. Refrigeration system with accumulator means. 3,444,699, 5-20-69, Cl. 62-225.
Harnish, James R.; and Lessley, Byron L., to Westinghouse Electric Corporation. Refrigeration systems with accumulator means. 3,423,954, 1-28-69, Cl. 62-222.
Harnish, Wayne O.; and Nettekoven, William F., to Minnesota Mining and Manufacturing Company. Reel-storage box. 3,462,206, 8-19-69, Cl. 312-17.
Harnsberger, Bobby G., to Texaco Inc., and Texaco Development Corporation. Permeable cementing composition and method. 3,428,121, 2-18-69, Cl. 166-276.
Harnsberger, Bobby G.; and Payton, Joy T., to Texaco Inc. Method and composition for stabilizing incompetent oil containing formations. 3,429,373, 2-25-69, Cl. 166-276.
Haroldson, Arthur H.; and Cox, Hubert L., to Budd Company, The. Copper foil surface treatment. 3,434,889, 3-25-69, Cl. 148-6.14
Haroldson, Ralph K. Air conditioner control means responive to vehicle engine power demands. 3,462,964, 8-26-69, Cl. 62-133.
Haroldson, Victor G. Elevated flooring. 3,425,179, 2-4-69, Cl. 52-283.
Harowe Servo Controls, Inc.: *See—*
Christensen, Eric K., 3,486,148.
Livingston, Douglas J., 3,486,054.
Harp, Emile F.: *See—*
Gurley, Jesse Fred, Jr.; Harp, Emile F.; and Reichard, Edward L.,3,437,276.
Harper & Row Publishers Incorporated: *See—*
Belina, Thomas E., 3,482,330.
Harper, Billy G.: *See—*
Atkins, Bobby L.; and Harper, Billy G.,3,429,954.
Bashaw, Robert N.; and Harper, Billy G.,3,480,546.
Gardner, John B.; Smith, Charles F.; and Harper, Billy G.,3,472,752.
Harper Buffing Machine Company: *See—*
Kramen, Frank H., 3,441,968.
Harper, Burke L. Fluid drainage disposal system. 3,454,043, 7-8-69, Cl. 137-565.

Harper, Calvin L., to Envelope Conversion Equipment Co. Transfer attachement for envelope forming machine. 3,456,942, 7-22-69, Cl. 27112.
Harper, Cecil R. Ripper tooth mounting for earth working machines. 3,433,310, 3-18-69, Cl. 172-471.
Harper, Chester H.: *See—*
Allen, Kenneth M.; and Harper, Chester H.,3,455,445.
Allen, Kenneth M.; and Harper, Chester H.,3,476,234.
Harper, Clarence Michael, Jr.; and Harrington, George Fox. Process for curing a meat product. 3,436,230, 4-1-69, Cl. 99-159.
Harper, George S., to Airpax Electronics Incorporated. Multipole circuit breaker. 3,444,488, 5-13-69, Cl. 335-10.
Harper, George S., to Airpax Electronics Incorporated. Circuit breaker with positive relatch. 3,486,140, 12-23-69, Cl. 335-168.
Harper, George Whitwell, to Primrose Third Axle Company Limited. System of operating close coupled trailer units. 3,481,629, 12-2-69, Cl. 280-415.
Harper, Jack R., to Dow Corning Corporation. Methods of bonding silicone rubbers to surfaces. 3,455,762, 7-15-69, Cl. 156-315.
Harper, Jack R.; and Loughlin, James, to FMA, Inc. Vector mensuration device, method for its use, and method for its calibration. 3,434,331, 3-25-69, Cl. 73-1.
Harper, James G., to Texas Instruments, Incorporated. Selective gold doping for high resistivity regions in silicon. 3,440,114, 4-22-69, Cl. 148-187.
Harper, James K.: *See—*
Hubbard, David C.; and Harper, James K.,3,472,395.
Harper, James L.: *See—*
Daniels, David A.; Harper, James L.; and Steadman, Thomas R.,3,479,387.
Godfrey, John J.; Sykes, James A.; Harper, James L.; and Morgan, Charles R.,3,463,811.
Harper, James L.; and Daniels, David A., to Grace, W. R., & Co. Aminonitrile synthesis. 3,424,783, 1-28-69, Cl. 260-465.5
Harper, James L.; and Daniels, David A., to Grace, W. R., & Co. Polymers containing beta-haloisocyanate groups. 3,483,175, 12-9-69, Cl. 260-85.1
Harper, James L.; and Thomas, Alan H., to Grace, W. R., & Co. Novel beta-chloroisocyanato adducts prepared by the reaction of isocyanic acid, a positive halogen yielding compound, and olefinically unsaturated oils. 3,472,886, 10-14-69, Cl. 260-404.5
Harper, James L.; and Thomas, Alan H., to Grace, W. R., & Co. Preparation of 1-chloro-2-isocyanatocyclohexane. 3,483,243, 12-9-69, Cl. 260-453.
Harper, James U. Adjustable jig for hole forming. 3,464,296, 9-2-69, Cl. 77-62.
Harper, John D. Conduit support apparatus. 3,469,601, 9-30-69, Cl. 137-615.
Harper, John D.; Breyer, Frederick; and Wagner, Richard C., to Integral Process Systems, Inc. Liquid nitrogen flash freezing. 3,431,745, 3-11-69, Cl. 62-63.
Harper, John W.: *See—*
Hulverson, Adrian F.; Harper, John W.; and Saxton, Floyd G.,3,456,390.
Harper, Laffie. Rotary stamping machine. 3,427,847, 2-18-69, Cl. 72-186.
Harper, Laffie. Machine for connecting hollow air turning vanes with rails. 3,455,008, 7-15-69, Cl. 29-208.
Harper, Leonard Roy, to International Business Machines Corporation. Nondestructive read transistor memory cell. 3,423,737, 1-21-69, Cl. 340-173.
Harper, Norman James: *See—*
Beckett, Arnold Heyworth; Harper, Norman James; and Simmonds, Alma Beryl,3,462,444.
Jack, David; Ritchie, Alexander Crawford; Peel, Mervyn Evan; and Harper, Norman James,3,458,521.
Harper, Stephen James, to Humber Limited. Adjustable steering column. 3,424,025, 1-28-69, Cl. 74-493.
Harper, Walter J.; and Ham, Edward J., to Westinghouse Electric Corporation. Activation of phosphor films. 3,460,986, 8-12-69, Cl. 117-215.
Harper, Walter Reeve, Jr., to Texas Instruments, Incorporated. Electrical switch particularly adapted for use in pressurized areas. 3,470,514, 9-30-69, Cl. 337-89.
Harper, William E., to Allis-Chalmers Manufacturing Company. Unidirectional breather means for electrical apparatus. 3,483,306, 12-9-69, Cl. 174-14.
Harper, William E.; and Ramrath, Joseph M., to Allis-Chalmers Manufacturing Company. Interrupting device having U-shaped parallel current paths. 3,446,928, 5-27-69, Cl. 200-146.
Harper, William M.: *See—*
Dunlap, Charles K., Jr.; Johnson, Walter E.; and Harper, William M.,3,477,631.
Harper, Winston J., to Technequip Company Limited, The. Large free all check valve. 3,444,881, 5-20-69, Cl. 137-112.
Harper-Wyman Company: *See—*
Bergquist, Frank H., 3,423,021.
Bergquist, Frank H., 3,469,567.
Michaels, Leonard H., 3,423,020.
Sekera, George F., Jr., 3,469,781.
Harpham, Lawrence M. Combination fishing pole and reel holder. 3,431,670, 3-11-69, Cl. 43-21.2
Harr, George B., to Firestone Tire & Rubber Company, The. Explosion barrier. 3,434,336, 3-25-69, Cl. 73-35.
Harr, George B., to Air Logistics Corporation. Container safety wall. 3,480,058, 11-25-69, Cl. 150-0.5
Harr, Thomas E.: *See—*
Altshuler, Thomas L.; Harr, Thomas E.; and Ledges, George E.,3,435,137.
Harrand, James H.: *See—*
Hembd, William H.; and Harrand, James H.,3,429,052.
Harrell, Bob G., to Jackes-Evans Manufacturing Company. Combination lock mechanism. 3,423,970, 1-28-69, Cl. 70-156.
Harrell, James M.: *See—*
Fall, Herbert S.; Harrell, James M.; Pulley, James A.; Vaughn, Lawrence M.; York, William D.; and Young, Wayne H.,3,450,446.
Fall, Herbert S.; Harrell, James M.; York, William D.; Young, Wayne H.; and Vaughn, Lawrence M.,3,485,539.
Harrell, Osmah E. Aseptic catheter assembly with holder introducer. 3,444,860, 5-20-69, Cl. 128-349.
Harrell, Patrick Harwood; and Lemin, Denis Ronald, to Imperial Chemical Industries Limited. Wool dyeing process. 3,469,930, 9-30-69, Cl. 8-54.
Harrell, Preston T. Peanut digger. 3,473,615, 10-21-69, Cl. 171-116.
Harrett, Thomas, to International Standard Electric Corporation. Magnetic reed contact assemblies. 3,478,287, 11-11-69, Cl. 335-154.
Harrick, Nicolas J., to North American Philips Company, Inc. Infrared spectra of powders by means of internal reflection spectroscopy. 3,431,411, 3-4-69, Cl. 250-43.5
Harrick, Nicolas J.; and Turner, Arthur F., said Turner, Arthur F., assor. to Bausch & Lomb Incorporated, and said Harrick, Nicolas J., assor to North American Philips Company, Inc. Internal reflection element for spectroscopy with film optical cavity to enhance absorption. 3,436,159, 4-1-69, Cl. 356-256.
Harrier, Jack L.; and Spaulding, Lawrence D., to Standard Oil Company (Indiana). Poly (amide-urea)resin. 3,451,956, 6-24-69, Cl. 260-22.
Harries, William S.; Piper, Robert G.; Daugherty, Don G.; Scribner, Neal; and Asnani, Gul C., to Kabushiki Kaisha Dentsu Wilcox Electric Company, Inc. Chopper phase comparator for omnirange receivers. 3,470,557, 9-30-69, Cl. 343-106.
Harrigan, Thomas G., to Bell Telephone Laboratories, Incorporated. High frequency power inverter. 3,448,370, 6-3-69, Cl. 321-45.
Harriman, Allen C.: *See—*
Andrews, Barry G.; and Harriman, Allen C.,3,477,078.
Becka, Michael M.; and Harriman, Allen C.,3,439,367.
Becka, Michael M.; and Harriman, Allen C.,3,470,573.
Bergeron, Normand; Harriman, Allen C.; and Sitko, Antoni L.,3,477,079.
Harriman, Allen C., to Kamborian, Jacob S. Apparatus for dispensing adhesive. 3,426,945, 2-11-69, Cl. 222-135.
Harriman, Allen C., to Kamborian, Jacob S. Lasting apparatus with yieldable wiping means. 3,456,273, 7-22-69, Cl. 12-12.5
Harriman, Allen C.; and Donahue, Robert F., to Kamborian, Jacob S. Apparatus for applying adhesive to a shoe assembly. 3,444,571, 5-20-69, Cl. 12-12.5
Harriman, Allen C.; and Robinson, Charles A., to Kamborian, Jacob S. Machine for applying coating material to a workpiece. 3,464,382, 9-2-69, Cl. 118-406.
Harriman, Allen C.; and Vornberger, Karl F., to Kamborian, Jacob S. Lasting machine. 3,478,379, 11-18-69, Cl. 12-10.5
Kamborian, Jacob S.; Harriman, Allen C.; Jones, Geoffrey T.; and Vornberger, Karl F.,3,422,474.
Harriman, Lester W.; Muehlberg, Paul E.; and Teumac, Fred N., to Dow Chemical Company, The. Removal of copper containing incrustations from ferrous surfaces. 3,438,811, 4-15-69, Cl. 134-2.
Harriman Manufacturing Company, The: *See—*
Petitt, William H., 3,449,545.
Harrimonde Limited: *See—*
White, Cyril, 3,472,189.
Harring, Charles A.: *See—*
Bennett, Jack P.; Harring, Charles A.; and Teo, William,3,441,849.
Harrington, Eugene M. Trowel. 3,460,183, 8-12-69, Cl. 15-235.4
Harrington, George E.: *See—*
Eddy, Thomas W.; and Harrington, George E.,3,421,114.
Harrington, George Fox: *See—*
Harper, Clarence Michael, Jr.; and Harrington, George Fox,3,436,230.
Harrington, Herbert A.; Dickey, John W.; Allen, William M.; Butz, Carl C.; and Campbell, Clarence E., to Catalox, Corporation. Apparatus for catalytic combustion. 3,485,230, 12-23-69, Cl. 126-92.
Harrington, Howard W.: *See—*
Bauhaus, Richard H.; Harrington, Howard W.; and Poulter, Howard C.,3,440,529.
Harrington, Howard W., to Hewlett-Packard Company. Method for use in spectroscopic analysis. 3,448,380, 6-3-69, Cl. 324-58.5
Harrington, James W. Pipe string fill-up tool. 3,461,962, 8-19-69, Cl. 166-226.

Harrington, John H.; and Prill, Arnold L., to International Nickel Company, Inc., The. Flowable metal powders. 3,481,714, 12-2-69, Cl. 29-182.

Harrington, Joseph J.: *See—*
Jordan, Bertram L.; Mitchell, John D.; Harrington, Joseph J.; Griffin, Charles B.; and Hall, William R.,3,482,614.
Maurya, Ramamurat R.; Harrington, Joseph, Jr.; and Squibb, Edward R., III,3,478,410.

Harrington Manufacturing Company: *See—*
Jordan, Bertram L., 3,482,613.

Harrington, Richard H.; and Henkel, Michael A., to International Business Machines Corporation. Printer with swiveling pushrods. 3,433,153, 3-18-69, Cl. 101-93.

Harrington, Robert C., Jr.; and Ammons, Robert L., to Eastman Kodak Company. Method of making a cigarette filter tow. 3,428,723, 2-18-69, Cl. 264-207.

Harrington, Robert C., Jr.; and Bond, James H., to Eastman Kodak Company. Fire resistant cellulose ester compositions. 3,437,497, 4-8-69, Cl. 106-15.

Harrington, Robert C., Jr.; Smith, James L.; and Bond, James H., to Eastman Kodak Company. Fibrous element. 3,463,688, 8-26-69, Cl. 156-152.

Harrington, Roger E., to Union Carbide Corporation. Magnetic control of electric arcs by means of permanent magnets attached to the electrode holder. 3,449,610, 6-10-69, Cl. 313-32.

Harrington, Roy Edwards; and Shriver, George Harvey, to Deere & Company. Tobacco harvester. 3,453,815, 7-8-69, Cl. 56-27.5

Harrington, Roy V., to Corning Glass Works. Glass article and method of production. 3,485,647, 12-23-69, Cl. 106-52.

Harrington, Thomas L.: *See—*
Vanstrum, Robert C.; Harrington, Thomas L.; and Tung, Chi Fang,3,486,952.

Harris, Albert Edward; and Tolhurst, Frank R., to Ilford Limited. Preparation of sensitised photographic paper. 3,447,942, 6-3-69, Cl. 117-4.

Harris, Alexander Thomas; and King, Kenneth Francis, to Du Pont de Nemours, E. I., and Company. Alpha-olefin, non-conjugated aliphatic diene, 2- norbornene(mono-unsaturated)terpolymer compositions and method of tacking with same. 3,467,633, 9-16-69, Cl. 260-80.78

Harris, Alva F., to Monsanto Company. Process for polymerizing monovinylidene aromatic hydrocarbon monomer formulations. 3,444,108, 5-13-69, Cl. 260-4.

Harris, Alva F., to Monsanto Company. Process for polymerizing monovinylidene aromatic hydrocarbon monomer formulations. 3,466,349, 9-9-69, Cl. 260-886.

Harris, Alva F., to Monsanto Company. Process for polymerizing monovinylidene aromatic hydrocarbon monomer formulations. 3,466,350, 9-9-69, Cl. 260-886.

Harris and Thrush Manufacturing Company: *See—*
Harris, Harold D., 3,460,698.
Harris, Harold D., 3,465,828.

Harris, Ben A., to Rochester Instrument Systems, Inc. System for controlling automatic reclosure of a power circuit breaker. 3,471,749, 10-7-69, Cl. 317-23.

Harris, Benjamin Lewis: *See—*
Hopkins, Leslie Arthur; and Harris, Benjamin Lewis,3,450,450.

Harris, Billy Steve, to Bancroft, Joseph & Sons Co. Low tension delivery for stuffer crimper. 3,430,311, 3-4-69, Cl. 28-1.

Harris, Boliver T., to Case, J. I., Company. Crank arm assembly. 3,424,014, 1-28-69, Cl. 74-44.

Harris Calorific Company, The: *See—*
Hach, Frank, Jr., 3,433,418.

Harris, Cecil C.: *See—*
Bell, Persa R.; and Harris, Cecil C.,3,441,351.

Harris, Charles F. Sine-test register-activating mechanism. 3,429,046, 2-25-69, Cl. 33-172.

Harris, Charles F. Arc-measuring gauge for use with cylindrical objects. 3,439,430, 4-22-69, Cl. 33-178.

Harris, Charles G. Grinding machine for arcuate shaped blades. 3,483,660, 12-16-69, Cl. 51-123.

Harris, Charles J. Plastic rainwear hood. 3,469,264, 9-30-69, Cl. 2-187.

Harris, Charles M., Jr. Post office box door fastener. 3,468,578, 9-23-69, Cl. 292-288.

Harris, Charles P.; and Ellis, Sheldon G., to United Aircraft Corporation. Aft end igniter. 3,461,672, 8-19-69, Cl. 60-256.

Harris, Cleon B. Method of repairing cracked metallic castings. 3,464,103, 9-2-69, Cl. 29-402.

Harris, Clyde W., to Te Company, The. Optical objective forming an intermediate image and having primary and subsidiary conjugate focal planes. 3,455,623, 7-15-69, Cl. 350-55.

Harris Company, Inc.: *See—*
Harris, Smauel D.; and Downing, James H., 3,462,199.

Harris, Darrel M.: *See—*
Gutsche, Henry W.; Harris, Darrel M.; and Walsh, Robert J.,3,469,686.

Harris, Darrel M.; and Westhoff, Donald E., to Monsanto Company. Electric resistance heaters. 3,436,255, 4-1-69, Cl. 117-201.

Harris, David A., to Fibreboard Corporation. Resilient channel member. 3,421,281, 1-14-69, Cl. 52-735.

Harris, Don Navarro, to Colgate-Palmolive Company. Solubilization of anti-caries agent. 3,450,812, 6-17-69, Cl. 424-49.

Harris, Donald S., to New Castle Products, Inc. Portable partitions. 3,453,790, 7-8-69, Cl. 52-143.

Harris, Douglas H., to National Cash Register Company, The. Reluctance-type transducer device. 3,423,742, 1-21-69, Cl. 340-174.1

Harris, Dwight E.; and Grad, Peter P., to Rotron Incorporated. Method of making porous bearings and products thereof. 3,445,148, 5-20-69, Cl. 308-237.

Harris, Earl R. Warning bell for vehicles moving in reverse. 3,429,290, 2-25-69, Cl. 116-60.

Harris, Edward N.: *See—*
Du Pont, Anthony A.; Harris, Edward N.; and Schroeter, Thomas T.,3,486,340.

Harris, Edward N., to Garrett Corporation, The. Jet engine with an axial flow supersonic compressor. 3,422,625, 1-21-69, Cl. 60-268.

Harris, Ellis D.: *See—*
Black, Francis B.; and Harris, Ellis D.,3,438,025.

Harris, Elwin A., to Hercules Incorporated. Purification of polyolefins. 3,436,386, 4-1-69, Cl. 260-93.7

Harris, Eric W. P., to Nielsen, A. C., Company, mesne. Photographic copying apparatus. 3,462,220, 8-19-69, Cl. 355-64.

Harris, Everett A.; and Jugler, John, to Branson Instruments Incorporated. Ultrasonic tool with fixturing means. 3,483,066, 12-9-69, Cl. 156-580.

Harris, Frank B., Jr.: *See—*
Tanner, Robert L.; Jones, Edward M. T.; and Harris, Frank B., Jr.,3,465,343.

Harris, Fritz B., to Activa Corporation. Instant paper-mache. 3,468,414, 9-23-69, Cl. 206-47.

Harris, George A., to Friden, Inc. Optical encoder. 3,465,099, 9-2-69, Cl. 178-17.

Harris, George Allen: *See—*
Wiggins, Alpha M.; and Harris, George Allen,3,421,109.

Harris, George T.Mason's line stretcher. 3,461,565, 8-19-69, Cl. 33-86.

Harris, Gerald R. Machine tool control system. 3,433,972, 3-18-69, Cl. 307-38.

Harris, Glen H., to Oil States Rubber Co. Platform leg packer. 3,468,132, 9-23-69, Cl. 61-63.

Harris, Glyn Islwyn: *See—*
Archer, David Frederick; and Harris, Glyn Islwyn,3,480,584.

Harris, Gordon John, to Fisons Fertilizers Limited. Method of forming granules from molten droplets. 3,457,336, 7-22-69, Cl. 264-14.

Harris, Guy H.: *See—*
Fischback, Bryant C.; and Harris, Guy H.,3,457,310.
Trepanier, Donald L.; and Harris, Guy H.,3,428,632.
Trepanier, Donald L.; and Harris, Guy H.,3,428,635.

Harris, Halbert M., Jr.: *See—*
McCowen, Harvey H.; and Harris, Halbert M., Jr.,3,474,429.

Harris, Harold D. Ratchet clamp vernier. 3,427,016, 2-11-69, Cl. 269-214.

Harris, Harold D., to Harris and Thrush Manufacturing Company. Farm cart. 3,460,698, 8-12-69, Cl. 214-519.

Harris, Harold D., to Harris and Thrush Manufacturing Company. Power driven cultivator. 3,465,828, 9-9-69, Cl. 172-70.

Harris, Harold Jay, to Gifford-Hill-Western, Inc. Sprinkling apparatus. 3,484,046, 12-16-69, Cl. 239-177.

Harris, Henry E.; and Scruggs, Jack G., to Monsanto Company. Gas activated treatment of elastic filaments. 3,424,828, 1-28-69, Cl. 264-83.

Harris, Horace C., Jr.: *See—*
Jeter, John D.; and Harris, Horace C., Jr.,3,424,256.

Harris, Jack R. Amplification by periodically quenching an unstable system. 3,474,350, 10-21-69, Cl. 330-203.

Harris, James D.: *See—*
Thompson, Raymond; and Harris, James D.,3,434,999.

Harris, James J., to Solitron Devices, Inc., mesne. Compensated transistor amplifier. 3,461,396, 8-12-69, Cl. 330-30.

Harris, James P.: *See—*
Friedman, Samuel; Harris, Robert O.; Mauch, Erwin W.; Harris, James P.; and Manzo, Joseph F.,3,470,638.

Harris, Jay Howard, to United States of America, Air Force. Single aperture multiple beam antennas. 3,453,632, 7-1-69, Cl. 343-772.

Harris, John E.; and Matthews, Clifford N., to Monsanto Research Corporation. Method for synthesis of adducts. 3,428,613, 2-18-69, Cl. 260-78.4

Harris, John F. G.; and Hildon, Anthony M., to Laporte Chemicals Limited. Sodium carbonate perhydrate, its treatment and method of preparation. 3,463,618, 8-26-69, Cl. 23-315.

Harris, John Ferguson, Jr., to Du Pont de Nemours, E. I., and Company. Polymers of hexafluorocyclopentadiene and perfluorodicyclopentadiene. 3,449,304, 6-10-69, Cl. 260-80.76

Harris, John Frederick, to Fisons Pest Control Limited. Synthesis of 2-trifluoromethylbenzimidazoles and 2-trifluoromethylimidazopyridines. 3,449,352, 6-10-69, Cl. 260-309.2

Harris, John R., Jr., to Hunt Electronics Company. Solid state power control circuit with compensation for line voltage variation. 3,436,562, 4-1-69, Cl. 307-252.

Harris, Joseph Earl, Jr., to Philco-Ford Corporation. Apparatus for heat-cleaning ovens. 3,459,923, 8-5-69, Cl. 219-480.
Harris, Joseph M.: *See—*
Brooks, David N.; and Harris, Joseph M.,3,445,646.
Harris, Kenneth D. Clamp. 3,480,309, 11-25-69, Cl. 287-110.
Harris, Kenneth H.: *See—*
Elliott, William T.; and Harris, Kenneth H.,3,420,403.
Harris, Lawrence A., to General Electric Company. Trap for organic vapors in vacuum systems. 3,458,115, 7-29-69, Cl. 230-69.
Harris, Lawrence A.; and De Tommasi, Arthur N., to General Electric Company. Shielded connector for movable lines. 3,459,873, 8-5-69, Cl. 174-86.
Harris, Lee B. Sampling unit for continuous display of spectral analysis. 3,486,822, 12-30-69, Cl. 356-83.
Harris, Lee M.Fat soluble derivative of vitamin B_{12} and the preparation thereof. 3,474,087, 10-21-69, Cl. 260-211.7
Harris, Leonard: *See—*
Whitmore, Henry B.; Lewis, Sidney T.; Ritzinger, Frederick R.; and Harris, Leonard,3,436,841.
Harris, Leslie M., Jr., to General Dynamics Corporation. Electronic navigation system. 3,456,259, 7-15-69, Cl. 343-106.
Harris, Louis C.: *See—*
Aceto, Mario D.; Harris, Louis C.; Lands, Alonzo M.; and Alexander, Ernest John,3,485,873.
Harris, Luther L., to Ethyl Corporation. Purification device for alkali metal electrolysis cells. 3,463,721, 8-26-69, Cl. 204-245.
Harris, Martin H.; Smith Francis M.; and Jennings, James W., to Gulf Research & Development Company. Method for sand control in wells. 3,447,607, 6-3-69, Cl. 166-15.
Harris, Mechell F. Hair drying hair roller. 3,431,917, 3-11-69, Cl. 132-42.
Harris, Neville Wreford; and Hughes, Brian Geoffrey, to English Electric Valve Company Limited. Traveling wave amplifier tubes. 3,441,783, 4-29-69, Cl. 315-3.5
Harris, Norman D.: *See—*
Farb, Norman E.; and Harris, Norman D.,3,422,567.
Harris, Paul E., to United States of America, Navy, mesne. Logarithmic amplifier. 3,448,289, 6-3-69, Cl. 307-230.
Harris, Peter D.: *See—*
Gruentzel, Richard A.; and Harris, Peter D.,3,485,437.
Harris, Rano J., Jr.: *See—*
Harris, Rano J.; and Harris, Rano J., Jr.,3,474,674.
Harris, Rano J., Sr.; and Harris, Rano J., Jr.,3,482,450.
Harris, Rano J., Sr.; and Harris, Rano J., Jr., to Precision Sampling Corporation. Sample inlet systems for analytical instruments. 3,482,450, 12-9-69, Cl. 73-422.
Harris, Rano J.; and Harris, Rano J., Jr., to Precision Sampling Corporation. Liquid injection apparatus. 3,474,674, 10-28-69, Cl. 73-422.
Harris, Raymond C., to Eastman Kodak Company. Process for the preparation of 2-amino-3- hydroxyquinoxalines. 3,446,809, 5-27-69, Cl. 260-250.
Harris, Raymond C.; and Newland, Gordon C., to Eastman Kodak Company. Polymeric compositions containing substituted 1, 4-benzoquinones. 3,440,209, 4-22-69, Cl. 260-41.
Harris, Raymond C.; and Straley, James M., to Eastman Kodak Company. 12-Alkylquinoxalophenoxazine compounds and cations. 3,485,832, 12-23-69, Cl. 260-244.
Harris, Richard A., to Western Electric Company, Incorporated. Interconnecting conductors located on opposite sides of an insulating base. 3,436,513, 4-1-69, Cl. 219-85.
Harris, Richard A.: *See—*
Blitchington, Frank H., Jr.; and Harris, Richard A.,3,448,280.
Harris, Richard L., Jr.; and Harrod, William L., to Bell Telephone Laboratories, Incorporated. Method and apparatus for mounting, connecting and repairing stacked circuit boards. 3,462,540, 8-19-69, Cl. 174-68.5
Harris, Richard S.: *See—*
Geary, Daniel; McKewon, Thomas E.; Harris, Richard S.; and Bolen, Herbert L.,3,460,258.
Harris, Robert Dennis, to Black and Decker Manufacturing Company, The. Brush holder and insert and method of assembly. 3,478,240, 11-11-69, Cl. 310-247.
Harris, Robert F.: *See—*
Beumel, Oscar F., Jr.; Smith, William Novis, Jr.; and Harris, Robert F.,3,460,919.
Harris, Robert L. Spring shank clamp. 3,425,755, 2-4-69, Cl. 306-1.5
Harris, Robert L., to Emerson Electric Co. Base-mounted motor. 3,428,842, 2-18-69, Cl. 310-217.
Harris, Robert M.; Knaggs, Edward A.; and Yeager, John A., to Stepan Chemical Company. Dispersible food compositions. 3,459,559, 8-5-69, Cl. 99-78.
Harris, Robert O.: *See—*
Friedman, Samuel; Harris, Robert O.; Mauch, Erwin W.; Harris, James P.; and Manzo, Joseph F.,3,470,638.
Harris, Robert R.: *See—*
Sempert, Robert E.; and Harris, Robert R.,3,440,201.
Harris, Robert V., to Branson Instruments Incorporated. Method and apparatus for evaluating the property of a liquid by acoustic means. 3,435,664, 4-1-69, Cl. 73-54.
Harris, Samuel C., Jr., to General Electric Company. Digital reading impedance measuring arrangement. 3,445,763, 5-20-69, Cl. 324-57.
Harris, Samuel W.; Morello, Edwin F.; and Peters, Gavin H., to Standard Oil Company (Indiana). Process for decomposition of oxides of nitrogen. 3,459,494, 8-5-69, Cl. 23-2.
Harris, Sidney F. Means for directing supply water toward the low temperature zone of water heater. 3,465,123, 9-2-69, Cl. 219-328.
Harris, Smauel D.; and Downing, James H., to Harris Company, Inc. Silo unloader. 3,462,199, 8-19-69, Cl. 302-56.
Harris, Stanley R.: *See—*
Wanderman, Herbert A.; and Harris, Stanley R.,3,481,058.
Harris, Stephen E.; and Targ, Russell, said Targ assor. to Sylvania Electric Products, Inc. Method and apparatus for producing a frequency modulated laser beam. 3,444,479, 5-13-69, Cl. 331-94.5
Harris, Stephen E.: *See—*
Oshman, Malin Kenneth; and Harris, Stephen E.,3,431,514.
Harris, Tedric A.; and Wellons, Frank W., to SKF Industries, Inc. Tapered roller bearing assembly. 3,447,849, 6-3-69, Cl. 308-214.
Harris, Thomas B.: *See—*
Vitale, Donald J.; Eagleson, Edwin W.; Harris, Thomas B.; and Menichelli, Vencent J.,3,461,801.
Harris, Thomas J.: *See—*
Fleisher, Harold; and Harris, Thomas J.,3,448,282.
Harris, Thomas J., to International Business Machines Corporation. Light deflector. 3,481,661, 12-2-69, Cl. 350-150.
Harris, Thomas J.; Fleisher, Harold; and Shapiro, Eugene, to International Business Machines Corporation. Radiation beam deflection sysem. 3,434,778, 3-25-69, Cl. 350-160.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, to International Business Machines Corporation. Electroptical memory. 3,439,348, 4-15-69, Cl. 340-173.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, to International Business Machines Corporation. Degenerate laser device having polarization control of light. 3,469,206, 9-23-69, Cl. 331-94.5
Harris, Thomas J.; and Max, Erhard, to International Business Machines Corporation. Stressed laser scanning device using light polarizers. 3,432,221, 3-11-69, Cl. 350-149.
Harris, Thomas J.; and Max, Erhard, to International Business Machines Corporation. High speed laser frequency selector. 3,435,370, 3-25-69, Cl. 331-94.5
Harris, William B., to Bell Telephone Laboratories, Incorporated. Variable width pulse circuit. 3,430,074, 2-25-69, Cl. 307-265.
Harris, William B., to Bell Telephone Laboratories, Incorporated. Thyristor switch circuit having diode controlled firing means. 3,441,873, 4-29-69, Cl. 331-107.
Harris, William B., to Bell Telephone Laboratories, Incorporated. Thyristor switch pulse generating circuit having means to improve shape of output pulse. 3,459,972, 8-5-69, Cl. 307-284.
Harris, William B.; and Massey, Richard P., to Bell Telephone Laboratories, Incorporated. Thyristor switch circuit for producing pulses of variable widths and having diode means for shortening the fall times of the pulses. 3,479,533, 11-18-69, Cl. 307-265.
Harris, William G., Jr.: *See—*
Stanley, William C.; Harris, William G., Jr.; and McLeroy, Edward G., Jr.,3,478,308.
Harris, William H. Dental operatory and valve used therein. 3,445,934, 5-27-69, Cl. 32-22.
Harris, William Leslie, to Contra Costa County Water District. Process for water treatment filter conditioning. 3,478,880, 11-18-69, Cl. 210-80.
Harris, William R.: *See—*
Lake, Milburn B.; and Harris, William R.,3,453,767.
Harris, William R. Shell and accessory case for skeet and trapshooters. 3,459,327, 8-5-69, Cl. 220-20.
Harris-Intertype Corporation: *See—*
Adams, Dolor N.; and Fauser, Donald L., 3,471,625.
Bobalek, Edward G.; Hart, John R.; and Fauser, Donald L., 3,486,889.
Bulk, Robert A.; and Toth, Louis P., 3,461,798.
Ellis, Jarrett R.; and Weidman, William H., 3,453,956.
Goettsch, Walter J., 3,459,080.
Grobman, William; and Rullo, Gabriel N., 3,422,757.
Heigl, Carl H., 3,466,026.
Hunstiger, Francis, 3,450,473.
Kolb, Edwin R.; Richardson, James I.; and Hunstiger, Francis, 3,435,309.
Lee, William H.; and Richards, Alan W., 3,426,260.
Moser, Henry W., 3,479,240.
Norton, Robert K., 3,433,155.
Norton, Robert K., 3,460,473.
Proud, Ralph A., Jr.; O'Brien, Richard C.; Graubert, Seth; and Goldstein, Theodore J., 3,470,539.
Richards, Alan W., 3,477,367.
Roberts, Webster C., 3,427,658.
Roseman, Joseph Charles, 3,459,289.
Ruetschle, Rudolph H., 3,471,141.
Sarka, Albert J., 3,430,542.
Sarka, Albert J., 3,435,737.
Sarka, Albert J.; and Toth, Louis P., 3,455,763.

Sarka, Albert J.; and Toth, Louis P., 3,460,443.
Sarka, Albert J., 3,485,146.
Seel, Howard J.; and Anderson, Robert J., 3,453,955.
Staines, Alfred J., 3,451,670.
Stotzer, Roger H.; Lee, William H.; and Vandeman, Jack E., 3,467,007.
Stotzer, Roger H.; and Southam, Donald L., 3,477,712.
Treff, Ernest H., 3,460,729.
Vandeman, Jack E.; and Seel, Howard J., 3,473,468.
Wood, William H., 3,455,003.
Zugel, Victor A., 3,443,807.

Harrison, Albert L. Game board. 3,458,216, 7-29-69, Cl. 281-44.

Harrison, Anthony William, to Girling Limited. Disc brakes and supporting means therefor. 3,442,353, 5-6-69, Cl. 188-73.

Harrison, Anthony W., to Girling Limited. Brake disc and vibration damping means therefor. 3,435,925, 4-1-69, Cl. 188-218.

Harrison, Benjamin Waugh. Clamps. 3,428,306, 2-18-69, Cl. 269-218.

Harrison, Bobby G., to Whirlpool Corporation. Airflow control means. 3,472,149, 10-14-69, Cl. 98-94.

Harrison, Charles H.: *See*—
Andersen, Harold Willids; Andersen, Harold W.; and Harrison, Charles H.,3,476,506.

Harrison, David: *See*—
Corbett, William Michael; and Harrison, David,3,459,590.

Harrison, Donald Britton: *See*—
Greenwood, Robert; Harrison, Donald Britton; and Morris, Joseph Robert,3,473,848.

Harrison, Donald Britton; Morris, Joseph Robert; and Singleton, Frank, to T.M.M. (Research) Limited. Chutes for feeding textile materials to cards. 3,450,439, 6-17-69, Cl. 302-28.
Fowler, Eliot Patrick; Harrison, Donald; and Levell, Roy William,3,426,199.

Harrison, Edmund, Jr.: *See*—
Morris, James Ernest; Harrison, Edmund, Jr.; and Szaksz, Julius,3,448,721.

Harrison, George C., to Minnesota Mining and Manufacturing Company. Construction of lapped panels having flexible edge portions. 3,422,589, 1-21-69, Cl. 52-309.

Harrison, George C., to Minnesota Mining and Manufacturing Company. Laminate animal stall flooring. 3,461,844, 8-19-69, Cl. 119-28.

Harrison, George; and Harrison, Nelson K., to North American Rockwell Corporation, mesne. Apparatus for making forgings. 3,445,904, 5-27-69, Cl. 29-33.

Harrison, Harry, to Sulmist Limited. Bed and platen printing machine with heated transfer ribbon. 3,435,760, 4-1-69, Cl. 101-287.

Harrison, Henry: *See*—
Mindell, Marvin I.; Heikkila, Andrew E.; Harrison, Henry; and Wolz, Rudolph G.,3,477,008.

Harrison, Henry. Rotatable element. 3,424,483, 1-28-69, Cl. 287-52.08

Harrison, Homer S., to American Chain & Cable Company, Inc., mesne. Garment conveyor. 3,454,148, 7-8-69, Cl. 198-28.

Harrison, Howard L.: *See*—
Bollinger, John G.; Stankey, Michael A.; and Harrison, Howard L.,3,452,180.

Harrison, Ian Robert: *See*—
Fraser, James; and Harrison, Ian Robert,3,478,153.

Harrison, Ian R.; Smith, Harry A.; and Handlovits, Carl E., to Dow Chemical Company, The. Method or crosslinking polyphenylene sulfide polymers and preparing laminar structures. 3,451,873, 6-24-69, Cl. 156-325.

Harrison, James Arthur; and Quartermain, Brian, to Davy and United Engineering Company Limited. Apparatus for monitoring the position of an object displaceable along a predetermined path. 3,445,640, 5-20-69, Cl. 235-151.32

Harrison, James B.; Mageli, Orville L.; and Lowell, Arthur I., to Wallace & Tiernan Inc. Vinyl chloride polymerization. 3,420,807, 1-7-69, Cl. 260-92.8

Harrison, James, to General Strapping Company. Topwrap apparatus. 3,440,796, 4-29-69, Cl. 53-74.

Harrison Jet Guns, Inc.: *See*—
Hakala, John R., 3,444,810.

Harrison, John R.; and Monagle, Daniel J., to Hercules Incorporated. Sewage treatment. 3,479,283, 11-18-69, Cl. 210-54.

Harrison, John W., to Grace, W. R., & Co. Package and method of making same. 3,479,789, 11-25-69, Cl. 53-34.

Harrison, John: *See*—
Hadfield, Dennis; and Harrison, John,3,450,580.

Harrison, John, to Spra-Con Company, The. Tray constructions for conveyors. 3,463,298, 8-26-69, Cl. 198-155.

Harrison, Lee, III. Means and method for generating shadows and shading for an electronically generated display. 3,441,789, 4-29-69, Cl. 315-18.

Harrison, Lee, III. Means and method for generating shadows on continuous surfaces in an image produced by an electronic image generator. 3,454,822, 7-8-69, Cl. 315-22.

Harrison, Lee, III. Means and method for controlling surface resolution at certain points on members of figures produced in an electronic image generator. 3,459,991, 8-5-69, Cl. 315-18.

Harrison, Lee, III, to Computer Image Corporation. Means and method for automatically generating perspective in an electronic image display. 3,483,426, 12-9-69, Cl. 315-18.

Harrison, Maurice Clark: *See*—
Vancil, Donald Otis; and Harrison, Maurice Clark,3,457,150.
Vancil, Donald Otis; and Harrison, Maurice Clark,3,485,579.
Vancil, Donald Otis; and Harrison, Maurice Clark,3,486,845.

Harrison, Mc Gregor and Guest Limited: *See*—
Brade, James N., 3,433,000.
Brade, James N., 3,433,001.

Harrison, McGregor and Guest Limited: *See*—
Brade, James Neville, 3,483,681.

Harrison, Nelson K.: *See*—
Harrison, George; and Harrison, Nelson K.,3,445,904.

Harrison, Ollie R., to McDonnell Douglas Corporation. Cargo barrier net. 3,486,723, 12-30-69, Cl. 244-118.

Harrison, Otto R.: *See*—
Bielstein, Walter J.; and Harrison, Otto R.,3,427,651.

Harrison, Patrick, Inc.: *See*—
Ublacker, Horst, 3,483,745.

Harrison, Peter Franklin, to Peco Machinery Limited. Apparatus for molding multi-layer or composite articles. 3,466,700, 9-16-69, Cl. 18-4.

Harrison, Robert R.: *See*—
Gajewski, Henry M.; Harrison, Robert R.; and Snyder Donald,3,456,965.

Harrison, Robert R., to Nemo Corporation. Power control mechanism for outboard motors and the like. 3,475,911, 11-4-69, Cl. 60-54.5

Harrison, Robert W. Sucker rod. 3,486,557, 12-30-69, Cl. 166-68.

Harrison, Stanley R.; and Broughton, Robert M., to Dunlop Rubber Company Limited. Golf balls having covers of ethylene-unsaturated monocarboxylic acid copolymer compositions. 3,454,280, 7-8-69, Cl. 273-235.

Harrison, Stuart A.; and Wicklatz, John E., to General Mills, Inc. Cyanoethylated cyclohexane-bis-alkyl amines. 3,478,081, 11-11-69, Cl. 260-464.

Harrison, Thomas R. Rotary engine control mechanism. 3,483,578, 12-16-69, Cl. 123-11.

Harrison, Walter K.: *See*—
Talbot, Samuel A.; Harrison, Walter K.; Talbot, Belle O., executrix of the estate of said; Talbot, Samuel A., deceased said; and Harrison, Walter K.; assors.,3,481,324.
Talbot, Samuel A.; Harrison, Walter K.; Talbot, Belle O., executrix of the estate of said; Talbot, Samuel A., deceased said; and Harrison, Walter K.; assors.,3,481,324.

Harrison, Wayne E.; and Jatras, Stephen J., to Midwestern Instruments, Inc. Oscillograph having semiconductor reflective member. 3,471,863, 10-7-69, Cl. 346-108.

Harrison, Wayne E.; and Jatras, Stephen J., to Midwestern Instruments, Inc., a division of Telex Inc. Apparatus for recording the time-variation of an electrical signal utilizing a pulsed laser. 3,482,254, 12-2-69, Cl. 346-76.

Harrison, William B.; and Boulton, Richard C., to Grace, W. R., & Co. Vacuum chuck for container closure lining machinery. 3,454,282, 7-8-69, Cl. 279-3.

Harrison, William M. Air cushion transporting system for heavy duty pallet. 3,468,393, 9-23-69, Cl. 180-116.

Harrod, John F., to General Electric Company. Polymerization of phenols on metallic copper. 3,434,873, 3-25-69, Cl. 117-127.

Harrod, William L.: *See*—
Harris, Richard L., Jr.; and Harrod, William L.,3,462,540.

Harrogate, Nigel Blythe, to Imperial Chemical Industries Limited. Process for making woven stretch fabrics. 3,486,208, 12-30-69, Cl. 28-72.

Harrold, Ronald T., to Westinghouse Electric Corporation. Cathode ray tube provided with a continuous phosphor layer for producing indexing signals. 3,444,413, 5-13-69, Cl. 313-92.

Harrop Ceramic Service Company: *See*—
Schoenlaub, Robert A., 3,433,468.

Harrworth, Inc.: *See*—
Aronson, David, 3,452,551.

Harry, Henry A. Portable tool. 3,456,738, 7-22-69, Cl. 173-18.

Harry, Lawrence D., to Dow Chemical Company, The. Method of curing epoxy resins. 3,431,237, 3-4-69, Cl. 260-47.

Harryvan, Elze Anjo: *See*—
de Winter, Max Solomon; and Harryvan, Elze Anjo,3,475,465.

Harsacky, Frank J.: *See*—
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ,3,481,872.
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ,3,483,129.

Harsch, William Edward: *See*—
Geary, James Edward, Jr.; Harsch, William Edward; Maxwell, John Murdock; and Rego, Richard Donald,3,442,002.

Harsco Corporation: *See*—
Alexander, Rex L., 3,436,018.

Chaney, Donal W., 3,458,213.
Chaney, Donal W., 3,473,820.
Cover, James A., 3,440,764.

Harsh, William C., to Cleveland Technical Center, Inc. Coagulant and process for treating waste waters. 3,446,731, 5-27-69, Cl. 210-43.

Harshaw Chemicals Limited: *See—*
Benjamin, Harry, 3,434,859.

Harshbarger, Allen L.: *See—*
Branyon, James Curtis; Harshbarger, Allen L.; and Martin, Maxie,3,477,624.

Harshbarger, John H., to Visula Information Institute, Inc. Signal generator. 3,483,479, 12-9-69, Cl. 331-52.

Harshbarger, William E.: *See—*
Pulskamp, Gerald S.; and Harshbarger, William E.,3,465,841.

Harson, Samuel Edward; and Fogg, Edward, to Hardman & Holden Limited. Metal organophosphorus compounds. 3,467,683, 9-16-69, Cl. 260-403.

Harson, Samuel Edward: *See—*
Turner, John Harry Wallice; and Harson, Samuel Edward,3,461,146.

Hart, Charles G.: *See—*
Bauder, Carl J.; Hart, Charles G.; and Cleminshaw, Douglas R.,3,485,694.

Hart, Charles G., to Cambridge Filter Manufacturing Corporation. Side loading filter housing. 3,423,908, 1-28-69, Cl. 55-481.

Hart, Charles W., to Brewer, C., and Company, Limited. Method of harvesting sugar cane. 3,475,886, 11-4-69, Cl. 56-1.

Hart, Clifton W.; and Rosacker, Eugene E., to Honeywell Inc. Pulse width modulated monostable multivibrator magnetometer. 3,487,299, 12-30-69, Cl. 324-43.

Hart, Don Rex; and Padgett, Willard L. Apparatus for preventing a cow from kicking. 3,451,377, 6-24-69, Cl. 119-96.

Hart, Donald P.: *See—*
Brane, Ralph M.; and Hart, Donald P.,3,483,109.

Hart, Donald P.; and Plasynski, Joseph E., to PPG Industries, Inc. Electrodeposition compositions and methods using a basic lead silico chromate pigment. 3,448,027, 6-3-69, Cl. 204-181.

Hart, Edwin J.; and Fielden, Edward M., to United States of America, Atomic Energy Commission. Method of quantitative analysis of reducible substances with hydrated electrons. 3,429,667, 2-25-69, Cl. 23-230.

Hart, Frederick M.: *See—*
Prahl, Helmut F.; and Hart, Frederick M.,3,466,252.
Tovey, Henry; Prahl, Helmut F.; and Hart, Frederick M.,3,434,870.

Hart, Gene E.: *See—*
Forrest, Joseph B.; and Hart, Gene E.,3,434,438.

Hart, Gerald M.; and Gunderman, Glen L., to Dow Chemical Company, The. Wood laminated with a modified ethylene polymer and a polyalkylene imine. 3,480,506, 11-25-69, Cl. 161-165.

Hart, Gerald M.; and Rieke, James K., to Dow Chemical Company, The. Corrosion resistant iron or steel. 3,480,485, 11-25-69, Cl. 148-6.15

Hart, H. W., Mfg. Co.: *See—*
Hart, Harold W., 3,428,028.

Hart, Harold W., to Hart, H. W., Mfg. Co. Drinking cup for fowls. 3,428,028, 2-18-69, Cl. 119-75.

Hart, Harry P., to Bell Telephone Laboratories, Incorporated. Single core series-shunt ferroresonant voltage regulator with easily altered gap. 3,447,068, 5-27-69, Cl. 323-60.

Hart, Henry H., to Union Carbide Corporation. Process and apparatus for shaping a shoe upper and bonding a shoe upper to an insole. 3,422,475, 1-21-69, Cl. 12-145.

Hart, Herbert J.; and Ellis, John N., to Schlumberger Technology Corporation. Methods and apparatus for bridging a well conduit. 3,460,625, 8-12-69, Cl. 166-285.

Hart, Howard R., Jr., to General Electric Company. Continuous shunt protection means for superconducting solenoids. 3,466,504, 9-9-69, Cl. 317-13.

Hart, Jack P.: *See—*
Addie, Albert N.; and Hart, Jack P.,3,435,888.
Christianson, Wallace A.; and Hart, Jack P.,3,467,174.

Hart, Jack P.; and Tharp, James W., to General Motors Corporation. Bonded pack matrix with seals. 3,456,717, 7-22-69, Cl. 165-9.

Hart, James, to Reliquifier Corporation of America. Cryogenic flash freezing machines. 3,427,820, 2-18-69, Cl. 62-307.

Hart, John R.: *See—*
Bobalek, Edward G.; Hart, John R.; and Fauser, Donald L.,3,486,889.

Hart, Joseph C.: *See—*
Eveland, Baisel L.; Hart, Joseph C.; and Masterson, Earl E.,3,420,518.

Hart, Le Roy. Fastener. 3,472,542, 10-14-69, Cl. 287-189.36

Hart, Leroy D.: *See—*
Gitzen, Walter H.; and Hart, Leroy D.,3,443,894.
Gitzen, Walter H.; and Hart, Leroy D.,3,443,895.

Hart, Marcus R.: *See—*
Graham, Robert P.; Hart, Marcus R.; and Morgan, Arthur I., Jr.,3,450,540.

Hart, Marvin N. Trailer guide wheel construction. 3,482,847, 12-9-69, Cl. 280-3.

Hart, Merida L. Subsurface pump. 3,420,183, 1-7-69, Cl. 103-44.

Hart, Michael: *See—*
Bonse, Ulrich Karl; and Hart, Michael,3,446,961.

Hart, Oliver M. Flexible electric heating cable. 3,454,747, 7-8-69, Cl. 219-549.

Hart, Oliver P.: *See—*
Bertram, Howard W.; Hart, Oliver P.; and Kleppinger, Robert E.,3,465,210.
Kaplan, Leonard A.; and Hart, Oliver P.,3,482,167.

Hart, Oliver P., to Radio Corporation of America. Field-effect oscillator circuit with frequency control. 3,436,681, 4-1-69, Cl. 331-117.

Hart, Otho E.; and Miller, Samuel A. Supersensitive impact sensor. 3,437,041, 4-8-69, Cl. 102-70.2

Hart, Paul Anton Herman, to North American Philips Company, Inc. Incoherent microwave generator including a gas discharge tube. 3,434,071, 3-18-69, Cl. 331-78.

Hart, Raymond V., to San Angelo Die Casting and Manufacturing Co., Inc. Gun rack. 3,477,587, 11-11-69, Cl. 211-64.

Hart, Rene Maurice: *See—*
Schmiedel, Ulrich; Meeussen, Louis Achille; Cassiers, Paul Maria; and Hart, Rene Maurice,3,441,947.

Hart, Robert L. Display tote bag with hook handle closure. 3,452,922, 7-1-69, Cl. 229-54.

Hart, Robert T., to Oxford Paper Company. Starch coating insolubilized with a zirconium salt. 3,425,896, 2-4-69, Cl. 161-266.

Hart, Rudy J. Gun sight. 3,451,137, 6-24-69, Cl. 33-47.

Hart, Thomas W., Jr., to Honeywell, Inc. Plural emitter semiconductive storage device. 3,487,376, 12-30-69, Cl. 340-173.

Hart, Una L., to Sperry Rand Corporation. Polyhalogenated salicylidene anilines. 3,478,097, 11-11-69, Cl. 260-566.

Hart, Victor Reginald. Double purpose chair. 3,473,843, 10-21-69, Cl. 297-130.

Hart, Walter C., to Phillips Petroleum Company. Method of controlling fractionator or stripper temperature by controlling reboiled vapor flow. 3,441,483, 4-29-69, Cl. 203-2.

Hart, Wayne C., to Baltimore Concrete Plank Corporation. Cable looping means. 3,437,316, 4-8-69, Cl. 254--190

Hart, Wayne C.: *See—*
Perry, Edward D.; and Hart, Wayne C.,3,429,092.

Hart, William E.; Allen, William A.; and Cunningham, Leslie L., to United States of America, Navy. Satellite tracking and plotting device. 3,434,211, 3-25-69, Cl. 33-1.

Hart-Carter Company: *See—*
Hume, Horace D., 3,434,733.
Lavalier, James P., 3,457,893.
Strand, Erling K., 3,474,675.

Hartbauer, Ellsworth A.; Talbot, Alfred B.; and Weis, Rudolf R., to Crown Zellerbach Corporation. Method and apparatus for accumulating individual plastic webs into stacks. 3,433,136, 3-18-69, Cl. 93-8.

Hartbauer, Ellsworth A.; and Weis, Rudolf R., to Crown Zellerback Corporation. Method and apparatus for securing a relatively rigid header to a stack of flexible sheets. 3,474,593, 10-28-69, Cl. 53-124.

Harte, Richard A., to TRW Inc. Blood content monitor. 3,463,142, 8-26-69, Cl. 128-2.

Hartel, Erwin H., to Cleveland Pneumatic Tool Company, The. Draft gear. 3,462,024, 8-19-69, Cl. 213-8.

Hartel, Gunter, to Lohner, Kurt, Professor Dr.-Ing. Fuel supply system for internal combustion engines. 3,476,096, 11-4-69, Cl. 123-140.

Hartel, Heinz; and Bier, Gerhard, to Dynamit Nobel Aktiengesellschaft. Process for the manufacture of alkali salts of carboxylic acids. 3,449,413, 6-10-69, Cl. 260-523.

Hartel, Heinz; and Bier, Gerhard, to Dynamit Nobel Aktiengesellschaft. Oxidation of polyvinyl alcohols. 3,459,724, 8-5-69, Cl. 260-91.3

Hartel, Heinz; and Nebel, Ilse, to Dynamit Nobel Aktiengesellschaft. Method of oxidizing aliphatic polymers containing hydroxymethyl groups. 3,455,882, 7-15-69, Cl. 260-67.

Hartel, Heinz; Nebel, Ilse Ursula; and Bier, Gerhard, to Dynamit Nobel Aktiengesellschaft. Oxidized polyacroleins as textile sizing agent. 3,427,286, 2-11-69, Cl. 260-67.

Hartel, Kurt: *See—*
Frensch, Heinz; Goebel, Helmut; and Hartel, Kurt,3,461,209.

Harten, John T., to General Instrument Corporation. Detented presettable tuner, particularly for UHF television. 3,474,362, 10-21-69, Cl. 334-51.

Harter, John W., to United States Steel Corporation. Device for impregnating wire rope. 3,459,156, 8-5-69, Cl. 118-405.

Harter, Lynn J.: *See—*
Woodman, Howard C.; and Harter, Lynn J.,3,478,701.

Harter, Miriam: *See—*
Archer, Wesley L.; and Harter, Miriam,3,449,262.

Hartford Special Machinery Company, The: *See—*
Morton, Robert D.; and Grohoski, Edward G., 3,472,400.

Hartford, Winslow H.; and Kelly, Walter R., to Allied Chemical Corporation. Manufacture of chromium spinels. 3,438,724, 4-15-69, Cl. 23-56.

Hartgrove, Earl H., Jr.; Hirshfeld, Julian J.; and Reuben, Bertie J., to Monsanto Company. Finish performance of fabrics comprised of synthetic fibers and cellulosic fibers. 3,484,182, 12-16-69, Cl. 8-115.7

Hartgrove, Earl H., Jr.: *See—*
Reuben, Bertie J.; Kay, Harold D.; Hirshfeld, Julian J.; and Hartgrove, Earl H., Jr.,3,462,297.

Harthorn, Wayne A.: *See—*
Prats, Michael; Street, Evan H., Jr.; and Harthorn, Wayne A.,3,438,443.

Hartin, William J., to United States of America, Atomic Energy Commission. Thermoluminescent heat stable lithium fluoride dosimeter. 3,427,452, 2-11-69, Cl. 250-71.

Harting, Darrell R., to Boeing Company, The. Strain gage having a strain resistant electrical connection. 3,441,891, 4-29-69, Cl. 338-6.

Harting, Werner, to Daimler-Benz Aktiengesellschaft. Hollow body. 3,476,178, 11-4-69, Cl. 165-134.

Hartjen, Raymond H., to Graflex, Inc., mesne. Teaching machine. 3,451,142, 6-24-69, Cl. 35-9.

Hartl, John J. Sod cutting machines. 3,469,635, 9-30-69, Cl. 172-19.

Hartlage, Francis J.: *See—*
Hagan, Ralph S.; and Hartlage, Francis J.,3,470,277.

Hartland, Derek; and Hartles, Walter Frederic, to English Electric Company Limited, The. Pumps and reversible pump turbines. 3,447,473, 6-3-69, Cl. 103-87.

Hartlapp, Gerhard: *See—*
Brockmuller, Wolfgang; Hartlapp, Gerhard; and Weizenkorn, Horst-Heinrich,3,433,585.

Hartlapp, Gerhard; Kowalski, Werner; and Klee, Helmut, to Knapsack Aktiengesellschaft. Process for the manufacture of polyphosphates. 3,449,068, 6-10-69, Cl. 23-105.
Heymer, Gero; Harnisch, Heinz; Hartlapp, Gerhard; and Traulsen, Karl,3,438,725.

Hartle, Brian, to G.K.N. Machinery Limited, mesne. Feed mechanisms. 3,447,694, 6-3-69, Cl. 214-1.2

Hartlein, Robert C., to Dow Corning Corporation. Priming with polyisocyanatoorganosilanes. 3,453,243, 7-1-69, Cl. 260-77.5

Hartlerode, William A., Jr. Track construction for a track-laying vehicle. 3,481,654, 12-2-69, Cl. 305-34.

Hartles, Walter Frederic: *See—*
Hartland, Derek; and Hartles, Walter Frederic,3,447,473.

Hartley, Arnold B.; and Fiedler, Marvin L., to Specialized Mass Markets, Inc. Electrical-stepped chance game device actuated a predetermined number of times, each time of a variable selected number of steps. 3,455,557, 7-15-69, Cl. 273-141.

Hartley, Curtis R.: *See—*
Knerr, Carl J.; Silva, William C.; and Hartley, Curtis R.,3,425,437.

Hartley, David; Swanick , Brian Herbert; and Pate , Orran Terence, to Automatic Telephone & Electric Company Limited. Indirect addressing using a pre-programmed micro-programme store. 3,444,527, 5-13-69, Cl. 340-172.5

Hartley, David: *See—*
Hughes, Gordon Alan; Smith, Herchel; and Hartley, David,3,458,579.

Hartley, Edward Langford, to Power Jets (Research and Development) Limited. Self-cooled fuel injector for a jet engine. 3,443,377, 5-13-69, Cl. 60-39.74

Hartley, Robert B., to Mobil Oil Corporation. Temperature control in an in-situ combustion production well. 3,470,954, 10-7-69, Cl. 166-251.

Hartman, Charles H.: *See—*
Dewey, Donald E.; Hartman, Charles H.; Horn, Robert D.; and McCartney, Talmadge O.,3,422,537.

Hartman, Donald W.: *See—*
Shaffer, John W.; and Hartman, Donald W.,3,439,992.

Hartman, Jack E.: *See—*
Ryan, John W.; Kossoff, Joseph; and Hartman, Jack E.,3,451,160.

Hartman, Lyle M. Piano harps. 3,426,637, 2-11-69, Cl. 84-238.

Hartman, Maurice D., Jr. Rotary sequential drug dispenser. 3,483,845, 12-16-69, Cl. 116-121.

Hartman, Maurice D., Jr.: *See—*
Sparks, George C.; and Hartman, Maurice D., Jr.,3,447,284.

Hartman, Paul F., to Allied Chemical Corporation, mesne. Metal-containing complexes of oxidized polyethylene. 3,476,532, 11-4-69, Cl. 44-7.

Hartman, Ralph E. Combined plug and check valve. 3,474,818, 10-28-69, Cl. 137-269.5

Hartman, Richard A.: *See—*
Ortner, Ernst; and Hartman, Richard A.,3,449,642.
Scott, Angus A.; Boyer, John L.; and Hartman, Richard A.,3,428,871.

Hartman, Richard H., to Litton Systems, Inc. Clear air turbulence detector. 3,427,581, 2-11-69, Cl. 340-25.

Hartman, Richard L., to United States of America, Army. Exponential generator utilizing a four-layer diode-capacitor arrangement. 3,458,715, 7-29-69, Cl. 307-108.

Hartman, Robert B., to Remington Arms Company, Inc. Method of producing images. 3,431,131, 3-4-69, Cl. 117-0.5

Hartman, Robert B., to Remington Arms Company, Inc. Process for the preparation of an image. 3,453,358, 7-1-69, Cl. 264-321.

Hartman, Robert B., to Remington Arms Company Inc. Fluidic system. 3,460,572, 8-12-69, Cl. 137-625.48

Hartman, Robert B., to Remington Arms Company, Inc. Fluidic diodes. 3,472,256, 10-14-69, Cl. 137-81.5

Hartman, Robert B., to Remington Arms Company, Inc. Oxyluminescent control apparatus. 3,477,403, 11-11-69, Cl. 116-114.

Hartman, Robert B., to Remington Arms Company, Inc. Fluidic pulse generator. 3,483,883, 12-16-69, Cl. 137-81.5

Hartman, Robert J.: *See—*
Austin, Arthur L.; Hartman, Robert J.; and Patton, John T., Jr.,3,439,067.

Hartman, Seymour; and Sullivan, Francis F., to U.S. Plywood-Champion Papers Inc. Viscoelastic sound-blocking material with filler of high density particles. 3,424,270, 1-28-69, Cl. 181-33.

Hartman, Thomas L., Jr., to United States of America, Army, mesne. Variable counterweight system. 3,427,896, 2-18-69, Cl. 74-573.

Hartmann & Braun Aktiengesellschaft: *See—*
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef, 3,484,789.
Kowert, Alexander; Moldenhauer, Kurt; Ries, Ludwig; and Schaefer, Werner, 3,454,760.
Ludecke, Heinz-Jurgen; and Moldenhauer, Kurt, 3,481,200.
Ries, Ludwig; Schreiner, Fritz; and Schaefer, Werner, 3,454,880.

Hartmann, Adolf; and Schweizer, Peter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Manufacture of linear fiber-forming polyesters. 3,459,711, 8-5-69, Cl. 260-75.

Hartmann, Albert: *See—*
Johl, Albert; Hartmann, Albert; and Rink, Hans,3,459,864.

Hartmann, Bert E., to Teledyne Industries Inc. Rupture strip for indicating earth movement. 3,477,019, 11-4-69, Cl. 324-52.

Hartmann, Charles H.: *See—*
Dimick, Keene P.; Hartmann, Charles H.; Oaks, Dudley M., Jr.; and Trone, Elmer,3,423,181.

Hartmann, Emil: *See—*
Seiler, Bernhard, 3,459,841.
Seiler, Bernhard, 3,478,912.

Hartmann, Hans. Sensing arrangement for perforated data cards. 3,432,645, 3-11-69, Cl. 235-61.11

Hartmann, Johann G., to Inventio Aktiengesellschaft. Magnetic indicator of angular movement of a rotary body. 3,486,479, 12-30-69, Cl. 116-115.

Hartmann, Karl. Conveyor belt. 3,464,538, 9-2-69, Cl. 198-201.

Hartmann, Ludwig A., to Atlas Chemical Industries, Inc. Method of preparing 1,4-3,6-dianhydroiditol and 1,4-3,6-dianhydroglucitol. 3,454,603, 7-8-69, Cl. 260-347.8

Hartmann, Ludwig A., to Atlas Chemical Industries, Inc. Preparation of 2,5-sorbitan. 3,480,651, 11-25-69, Cl. 260-347.8

Hartmann, Ludwig A., to Atlas Chemical Industries, Inc. Separation of hexitans. 3,484,459, 12-16-69, Cl. 260-347.8

Hartmann, Ludwig, to Freudenberg, Carl, Kommanditgesellschaft auf Aktien. Process for the production of non-woven elastic polyurethane fabric. 3,439,085, 4-15-69, Cl. 264-210.

Hartmann, Max; and Burger, Willy, deceased0 (by Burger, Jeanne Fanny; and0Uli, Raymond Burger-Straumann; heirs), to Aktiengesellschaft Brown, Boveri & Cie. Expansion-compensator of the non-loaded type. 3,461,915, 8-19-69, Cl. 138-31.

Hartmann, Philip, to Koehring Company. Variable volume pump. 3,465,682, 9-9-69, Cl. 103-120.

Hartmann, Philippus C. P., to Shell Oil Company. Process and apparatus for the production of a derived seismogram. 3,449,047, 6-10-69, Cl. 355-2.

Hartmann, Rolf, to Gundlach, Aug., GmbH. Device for producing refractory bodies and a method of producing such bodies. 3,470,284, 9-30-69, Cl. 264-119.

Hartmann, Rudolf: *See—*
Kolb, Hans; Hartmann, Rudolf; and Buckmiller, Harald,3,444,287.

Hartmann, Valentin: *See—*
Machleidt, Hans; and Hartmann, Valentin,3,435,063.

Hartmann, Werner; Schleede, Dietrich; and Schulde, Felix, to Pfaff, G. M., A.G., and Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Friction bearing of thermoplastic material and process of making same. 3,431,203, 3-4-69, Cl. 252-12.2

Hartmark, Bjarne: *See—*
Kirner, Uwe; and Hartmark, Bjarne,3,476,505.

Hartmeister, Ruben J.; and Pennington, Norman G., to Goors Porcelain Company. Machine for coating interior of containers. 3,452,709, 7-1-69, Cl. 118-2.

Hartner, Antal J.: *See—*
Adlhart, Otto J.; and Hartner, Antal J.,3,475,224.
Hartnett, John J.: *See—*
Critides, Charles G.; Scordato, Emil A.; and Hartnett, John J.,3,483,781.
Hartnett, Robert L., to Monsanto Company. Dehydrohalogenation of 1,2-dichloroethane. 3,450,780, 6-17-69, Cl. 260-656.
Hartnett, Robert L.; and Singleton, Thomas C., to Monsanto Company. Ethylene dihalide process. 3,481,995, 12-2-69, Cl. 260-662.
Hartney, Thomas C. Record device and system. 3,435,192, 3-25-69, Cl. 235-61.12
Hartog, Henry. Sound reproduction apparatus. 3,424,465, 1-28-69, Cl. 274-1.
Hartog, Jan: *See—*
Westerhof, Pieter; and Hartog, Jan,3,423,433.
Westerhof, Pieter; and Hartog, Jan,3,471,529.
Hartop, Stephen Ben, to Lucas, Joseph, (Industries) Limited. Device for filling electric batteries with electrolyte. 3,438,552, 4-15-69, Cl. 222-386.5
Hartop, Stephen Ben, to Lucas, Joseph, (Industries) Limited. Casings for alkaline batteries. 3,441,447, 4-29-69, Cl. 136-166.
Hartpence, Ande G. Embracing doll. 3,448,539, 6-10-69, Cl. 46-156.
Hartree, John R.: *See—*
Baker, William A.; Hartree, John R.; and Gould, Robert,3,429,166.
Hartsock, William H., of 50% to Volz, J. Roland, and Bartenfelder, John L. Magnetic toy or similar apparatus. 3,425,157, 2-4-69, Cl. 46-238.
Hartung, Robert L.: *See—*
Howell, John S.; and Hartung, Robert L.,3,475,750.
Hartvickson, Norman W. Turkey handling machine. 3,420,211, 1-7-69, Cl. 119-82.
Hartwell Corporation: *See—*
Henrichs, Bernard W.; and Brown, Frank A., 3,469,277.
Hartwell, Robert E.: *See—*
Everhard, Frederic U.; and Hartwell, Robert E.,3,461,727.
Hartwell, Sidney J.: *See—*
Oakes, Lloyd; Wakeam, Ralph D.; and Hartwell, Sidney J.,3,427,530.
Hartwell, Walter T.; and Young, Frederick C., to Bell Telephone Laboratories, Incorporated. Coordinate axis converter employing a function generator. 3,430,855, 3-4-69, Cl. 235-197.
Hartwich, Richard. Wig. 3,424,175, 1-28-69, Cl. 132-53.
Hartwick, Donald J.: *See—*
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J.,3,430,635.
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J.,3,454,318.
Hartwick, Gloria J.: *See—*
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J.,3,430,635.
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J.,3,454,318.
Hartwig, Robert L.: *See—*
Moeller, John D.; and Hartwig, Robert L.,3,474,707.
Hartwig, Robert Louis, to Pneumo Dynamics Corporation. Metering shock absorber with snubbing means and snub release means. 3,451,510, 6-24-69, Cl. 188-88.
Hartwig, Rudy R. Adapter for recorder microphone. 3,452,955, 7-1-69, Cl. 248-229.
Hartwig, Walter J.: *See—*
Purucker, Donald; and Hartwig, Walter J.,3,441,257.
Harty, M. Fillmore, Jr., to Amana Refrigeration, Inc. Breaker strip construction. 3,468,449, 9-23-69, Cl. 220-9.
Hartz, Joseph M.; Miknaitis, Sigitas; and Vogel, Carl W., to Automatic Electric Laboratories, Inc. Pushbutton signaling arrangement. 3,435,160, 3-25-69, Cl. 179-179.
Hartz, Marvin E.; and Witek, Roman J., Jr., to Essex International, Inc. Connector block. 3,475,718, 10-28-69, Cl. 339-91.
Hartz, Raymond J.: *See—*
Singleton, John C.; McCullough, Donald H.; and Hartz, Raymond J.,3,428,839.
Hartz, Robert E., to Quick Way, Inc. Vehicle sign assembly. 3,481,060, 12-2-69, Cl. 40-102.
Hartz, Stanley G., to Buckbee-Mears Company, mesne. Carriage with movable co-planar frames for positioning test devices with respect to continuously moving strip of metal. 3,456,118, 7-15-69, Cl. 250-235.
Hartzel, Lawrence W., to United States of America, Atomic Energy Commission. Process for recovering filler from elastomer. 3,476,526, 11-4-69, Cl. 23-312.
Hartzell, Donald W.: *See—*
De Lancey, Warren H.; Hays, Herbert G.; and Hartzell, Donald W.,3,469,791.
Hartzell, Gordon E.: *See—*
Huyser, Earl S.; and Hartzell, Gordon E.,3,429,933.
Hartzell, Harry F., Jr., to Koppers Company, Inc. Material handling apparatus. 3,448,868, 6-10-69, Cl. 214-6.
Hartzell, Harry F., Jr., to Koppers Company, Inc. Billet and slab transfer device. 3,464,481, 9-2-69, Cl. 164-269.
Hartzell Propeller, Inc.: *See—*
Biermann, David, 3,461,966.
Hartzler, Earnest D.; and Brown, Jack M. Electrical switch structure including dual arm movable contact. 3,423,556, 1-21-69, Cl. 200-166.
Hartzog, Levy S., to Kentucky Fried Chicken Corporation. Chicken frying equipment. 3,466,997, 9-16-69, Cl. 99-330.
Haruna, Ichiro: *See—*
Spiegelman, Soloman; and Haruna, Ichiro,3,444,041.
Spiegelman, Solomon; Haruna, Ichiro; and Pace, Norman R.,3,444,042.
Harvanek, Adolf; and Chalupnik, Vaclav, to Chepos, Zavody chemickeho a potravinarskeho strojirenstvi oborovy podnik. Strainer. 3,464,558, 9-2-69, Cl. 210-159.
Harvest Queen Mill & Elevator Company: *See—*
Ensley, Donald Luther, 3,432,242.
Ensley, Donald Luther, 3,446,714.
Santmyer, Philip H., 3,464,838.
Harvey, Albert John, to Allen Davies & Company Limited. Packaged tray of articles. 3,425,543, 2-4-69, Cl. 206-65.
Harvey, Allan M., to Vanderbilt, R. T., Company, Inc. Amine complexes of zinc salts of chlorinated thiobisphenols. 3,426,024, 2-4-69, Cl. 260-270.
Harvey, Allan M. Process for preparing trans isomers of 1,2- bis(alkylsulfonyl) ethene. 3,471,571, 10-7-69, Cl. 260-607.
Harvey Aluminum (Incorporated): *See—*
Harvey, Herbert; Sims, Martin H.; and Clay, Charles L., 3,432,841.
Harvey, Leo Myer, 3,450,010.
Hilton, Ralph William, 3,472,416.
Harvey, Charles A.; Harvey, Henry E.; and Hill, Albert E., to Federated Merchandisers, Inc. Automobile clothes rack. 3,481,483, 12-2-69, Cl. 211-105.3
Harvey, Charles H., to Gulf Oil Corporation. Flow control arrangement. 3,428,366, 2-18-69, Cl. 302-42.
Harvey, David E.; Amrein, Carl J.; and Abbratozzato, Salvatore R., to Black and Decker Manufacturing Company, The. Interconnected brush spring and terminal. 3,476,965, 11-4-69, Cl. 310-249.
Harvey Dental Specialty Company: *See—*
Fritz, William O., 3,473,693.
Harvey, Donald M.: *See—*
Eagle, John H.; Harvey, Donald M.; and Seebech, Robert W.,3,455,218.
Harvey, Donald M., to Eastman Kodak Company. Optical means for controlling acceptance angle of a photoresponsive device. 3,442,191, 5-6-69, Cl. 95-10.
Harvey, Donald M., to Eastman Kodak Company. Automatic focusing for cameras. 3,443,502, 5-13-69, Cl. 95-44.
Harvey, Donald M., to Eastman Kodak Company. Wireless remote control slide changer. 3,475,092, 10-28-69, Cl. 353-103.
Harvey, Donald M., to Eastman Kodak Company. Automatic shutter control. 3,479,935, 11-25-69, Cl. 95-10.
Harvey, Douglas J., to General Motors Corporation. Apparatus for centrifugal casting. 3,455,375, 7-15-69, Cl. 164-286.
Harvey, Edwin Dennis; and Vellins, Cyril Eric, to Imperial Chemical Industries Limited. Water-insoluble anthraquinone dyestuffs. 3,446,817, 5-27-69, Cl. 260-326.
Harvey, Frank E.: *See—*
Zurheide, George B.; and Harvey, Frank E.,3,468,434.
Harvey, George R., to Monsanto Company. Preparation of diazo compounds. 3,440,239, 4-22-69, Cl. 260-141.
Harvey, George R., to Monsanto Company. Preparation of V-triazoles. 3,470,196, 9-30-69, Cl. 260-308.
Harvey, George R., to Monsanto Company. Conjugated vinyl azides and their preparation. 3,471,523, 10-7-69, Cl. 260-349.
Harvey, George R.; and Ratts, Kenneth Wayne, to Monsanto Company. Vinylphosphinimines and a method of preparation. 3,452,080, 6-24-69, Cl. 260-471.
Harvey, Henry E.: *See—*
Harvey, Charles A.; Harvey, Henry E.; and Hill, Albert E.,3,481,483.
Harvey, Herbert; Sims, Martin H.; and Clay, Charles L., to Harvey Aluminum (Incorporated). Status indicating and alarm annunciating systems for electrically powered devices. 3,432,841, 3-11-69, Cl. 340-248.
Harvey, Jack Lane; and Hudson, Joseph Dunn, to BPB Industries Limited. Method of forming-felt faced wood wool slab. 3,472,720, 10-14-69, Cl. 156-320.
Harvey, James E.: *See—*
Johnson, James R.; Harvey, James E.; and Kingslake, Rudolf,3,441,338.
Harvey, James. Fast-acting deluge-type fire extinguisher system. 3,447,609, 6-3-69, Cl. 169-20.
Harvey, John C., to Stevens, J. P., & Co., Inc. Elastic fabric having folded thin elastic ribbon warp ends. 3,464,460, 9-2-69, Cl. 139-422.
Harvey, John, Jr., to Du Pont de Nemours, E. I., and Company. Partially reduced 2-(1-napthylamino) oxazoline, indanylethylureas, and indanylaminooxazoline. 3,432,600, 3-11-69, Cl. 424-272.

Harvey, John, Jr., to Du Pont de Nemours, E. I., and Company. Certain 2(substituted-anilino)-2-oxazolines. 3,453,284, 7-1-69, Cl. 260-307.
Harvey, John Vipond; and Thompson, John Rowson, to Du Pont de Nemours, E. I., and Company, mesne. Thread tensioning apparatus. 3,461,718, 8-19-69, Cl. 73-95.5
Harvey, Leo Myer, to Harvey Aluminum (Incorporated). Landing mat. 3,450,010, 6-17-69, Cl. 94-13.
Harvey, Luke M., to General Electric Company. Conductive liquid metal transfer means for plural current collectors. 3,436,575, 4-1-69, Cl. 310-219.
Harvey, Luke M., to General Electric Company. High speed homopolar machine. 3,453,467, 7-1-69, Cl. 310-178.
Harvey, Peter, to British Insulated Callender's Cables Limited. Method and apparatus for stranding flexible materials. 3,481,126, 12-2-69, Cl. 57-34.
Harvey, Philip C., to National Research Corporation. Ambient temperature compensated thermocouple vacuum gauge. 3,440,884, 4-29-69, Cl. 73-399.
Harvey, Philip C.; Sheldon, Deane P.; and van Opijnen, Leendert J. K., to National Research Corporation. Mass spectrometer leak detector circuit means employing an insulated gate field effect transistor. 3,449,564, 6-10-6, Cl. 250-41.9
Harvey, Phillip D.: *See*—
Haritatos, Nicholas J.; and Harvey, Phillip D.,3,463,611.
Harvey, Richard Alfred, to Rolls-Royce Limited. Fuel injector for a gas turbine engine. 3,483,699, 12-16-69, Cl. 60-39.74
Harvey, Richard Alfred; Gradon, Keith; and Chantry, John Alfred, to Rolls-Royce Limited. Gas turbine combustion equipment. 3,483,701, 12-16-69, Cl. 60-39.74
Harvey, Robert J., to Halcon International, Inc. Process of buffering a neutralized t-butyl hydroperoxide during distillation. 3,449,217, 6-10-69, Cl. 203-6.
Harvey, Robert R., to Phillips Petroleum Company. Oil recovery with a drive comprising surfactants and minute solids. 3,476,187, 11-4-69, Cl. 166-274.
Harvey, Robert R., to Phillips Petroleum Company. Aqueous fluid drive process using minute solids in suspension. 3,476,188, 11-4-69, Cl. 166-274.
Harvey, Robert R.; and Vaclaw, Mike M., to Phillips Petroleum Company. Polymer suspension and production of oil therewith. 3,431,976, 3-11-69, Cl. 166-274.
Harvey, Roland Michael; and Johnson, Christopher Richard Napier, to Chemstrand Limited. Manufacture of paper. 3,429,772, 2-25-69, Cl. 162-157.
Harvey, Sid, Inc.: *See*—
Lindtveit, Herbert, 3,432,705.
Harvey, Wildon T.; and Knepper, Jay C., Jr., to Sun Oil Company. Corrugated paperboard having improved wet strength properties. 3,467,547, 9-16-69, Cl. 117-158.
Harvey, Wildon T.; and Zaayenga, Ralph, to Sun Oil Company. Method of coating fibrous materials with wax. 3,433,665, 3-18-69, Cl. 117-120.
Harvey, William A.: *See*—
Hanson, Marlin M.; Harvey, William A.; and Oberg, Paul E.,3,446,936.
Harvic Manufacturing Corp.: *See*—
Berger, Victor M.; and McDonnell, John L., 3,443,063.
Harvill, Edward K., deceased (by Harvill, Jeanne T., legatte and devisee); and Shrawder, Elsie J., to Miles Laboratories, Inc. Test composition, device and method for detecting urea in aqueous fluids. 3,427,225, 2-11-69, Cl. 195-103.5
Harvill, Edward K., deceased (by Harvill, Jeanne T., sole heir, legatee and devisee); and Shrawder, Elsie J., to Miles Laboratories, Inc. Test composition, device and method for detecting urea in aqueous fluids. 3,461,036, 8-12-69, Cl. 195-103.5
Harvin, Richard L.: *See*—
Bocard, Joseph P.; and Harvin, Richard L.,3,469,934.
Bocard, Joseph P.; Harvin, Richard L.; and Mayland, Bertrand J.,3,469,944.
Mayland, Bertrand J.; Trimarke, Carl Robert; Harvin, Richard L.; and Brandon, Charles S.,3,477,832.
Harward, Robert A.: *See*—
Bourgault, Albert J.; and Harward, Robert A.,3,487,181.
Harwart, Alois: *See*—
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois,3,431,263.
Harwell, James M., Jr., to Gray Tool Company. Ball connector. 3,450,421, 6-17-69, Cl. 285-24.
Harwell, James M., Jr., to Gray Tool Company. Stab-in conduit couplings. 3,456,729, 7-22-69, Cl. 166-226.
Harwell, Kenneth E., to Continental Oil Company. Sparation of alkyl aluminum compounds on an exchange resin. 3,445,493, 5-20-69, Cl. 260-448.
Harwood, Leopold A., to Radio Corporation of America. Remote control system. 3,423,725, 1-21-69, Cl. 340-15.
Harwood, Leopold A., to Radio Corporation of America. Circuit for stabilizing the DC output voltage of a gain controlled amplifier stage in a direct coupled integrated circuit signal translating system. 3,430,154, 2-25-69, Cl. 330-19.
Harwood, Leopold A., to Radio Corporation of America. Integrated circuit biasing arrangement for supplying Vbe bias voltages. 3,430,155, 2-25-69, Cl. 330-22.
Harwood, Leopold A., to RCA Corporation. Detector and AGC circuit stabilization responsive to power supply changes. 3,469,195, 9-23-69, Cl. 325-405.
Harwood, Louis Jay: *See*—
Harwood, Milton Gene; and Harwood, Louis Jay,3,446,186.
Harwood, Milton G.; and Harwood, Louis J.,3,446,187.
Harwood, Milton Gene; and Harwood, Louis Jay. Poultry pecking shield. 3,446,186, 5-27-69, Cl. 119-97.
Harwood, Milton G.; and Harwood, Louis J. Pecking shield for poultry. 3,446,187, 5-27-69, Cl. 119-97.
Harwood, Van Ness, Jr., to Aro of Buffalo, Incorporated. Chemical packheater for diver's suit. 3,450,127, 6-17-69, Cl. 126-204.
Harwood, William H., to Continental Oil Company. Method of retarding water evaporation. 3,437,421, 4-8-69, Cl. 21-60.5
Hasbro Industries, Inc.: *See*—
Convertine, Frank, 3,452,473.
Heim, John H., 3,482,352.
Speers, Samuel F.; Jacques, Norman L.; Guglielmi, Anthony C.; and Gray, Leonard, 3,466,798.
Speers, Samuel F.; and Jacques, Norman L., 3,475,042.
Haschek, Friedrich; and Loos, Kurt, to Kabelschlepp G.m.b.H. Covering device for guiding tracks, especially on machine tools. 3,426,830, 2-11-69, Cl. 160-228.
Haschek, Friedrich: *See*—
Loos, Kurt; and Haschek, Friedrich,3,429,356.
Hasday, Irving, to Modern Factors Corporation, mesne. Non-slip eyeglass frames. 3,463,568, 8-26-69, Cl. 350-113.
Hasebe, Nobuyasu: *See*—
Iida, Suetoshi; Marushima, Yoshio; and Hasebe, Nobuyasu,3,459,495.
Hasegawa, Junzo: *See*—
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu,3,457,597.
Hasegawa, Masaru; Hirota, Sadao; and Ogawa, Hiroshi, to Daiichi Kagaku Yakuhin Co., Ltd. Method for obtaining capsules having oily drugs closed therein. 3,421,282, 1-14-69, Cl. 53-4.
Hasegawa, Noboru; Ishikawa, Nobuo; and Kondo, Susumu, to Nippon Gosei Kagaku Kogyo Kabushiki Kaisha. Dry powdery non-blocking vinyl ester-ethylene copolymer compositions and process for the production thereof. 3,463,751, 8-26-69, Cl. 260-23.
Hasegawa, Takeshi; and Shindo, Yasuhiro, to Matsushita Electric Industrial Co., Ltd. Durable resistive element of glass and a process for preparing the same. 3,475,211, 10-28-69, Cl. 117-216.
Hasegawa, Tetsuo: *See*—
Tanaka, Hiroshi; Takahashi, Shinkichi; Hasegawa, Tetsuo; and Sato, Toshihiko,3,438,706.
Hasegawa, Yasuhiro: *See*—
Chiba, Jiro; Takahashi, Ikuo; and Hasegawa, Yasuhiro,3,472,281.
Hasegawa, Yoshinori: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori,3,462,533.
Hasegawa, Yoshio: *See*—
Jinushi, Osamu; Hasegawa, Yoshio; and Hossaka, Takuji,3,421,246.
Hasel, Heinz; and Wolf, Otto. Self-supporting roofing elements with connecting means. 3,461,602, 8-19-69, Cl. 46-23.
Haselden, Andrew George Philip. Hose reels and mountings therefor. 3,433,247, 3-18-69, Cl. 137-355.26
Haselgrove, Bob; Dorsett, Ronald; and Bryan, Leonard Thomas Frank. Apparatus to feed superposed webs for seaming. 3,439,637, 4-22-69, Cl. 112-2.
Hasell, Henry P.; and Chauvin, Bernard, to Westinghouse Electric Corporation. Base and contact structure for a multi-flashlamp unit. 3,480,771, 11-25-69, Cl. 240-1.3
Haselmayer, Karl, to Metallgesellschaft Aktiengesellschaft. Diffuser-like inlet connection for electrical dust separators. 3,425,189, 2-4-69, Cl. 55-129.
Haseloff, Heinz: *See*—
Yolker, Ulrich; Gerloff, Gunter; and Haseloff, Heinz,3,435,927.
Haselton, Ernest F., Jr., to Sylvania Electric Products, Inc. Electronic switching system. 3,435,417, 3-25-69, Cl. 340-166.
Haselton, Ernest F., Jr., to Sylvania Electric Products, Inc. Switching network employing latching type semiconductors. 3,456,084, 7-15-69, Cl. 179-18.
Haselton, Frederick R.; and Keller, Karl H., to United States of America, Navy. Submarine hydrodynamics control system. 3,450,083, 6-17-69, Cl. 114-16.
Haselton, Thomas P.: *See*—
Black, Frank S.; and Haselton, Thomas P.,3,463,674.
Hasenbank, Kenneth N., to Toro Manufacturing Corporation. Lubricator. 3,429,402, 2-25-69, Cl. 184-103.
Hasenbank, Kenneth N., to Toro Manufacturing Corporation. Edge trimmer. 3,430,424, 3-4-69, Cl. 56-255.
Hasenohrl, Jan: *See*—
Duchek, Ladislav; and Hasenohrl, Jan,3,433,360.

Hasenwinkle, Earl D.: *See—*
Bridges, Robert L.; and Hasenwinkle, Earl D.,3,438,623.
Haserer, Johann: *See—*
Lutz, Edgar; Haserer, Johann; and Pohlau, Claus,3,462,829.
Hashe, Ambrose L., Jr., to United Merchants and Manufacturers, Inc. Spiral guide reel assembly for an apparatus for the fluid treatment of fabrics in rope form. 3,460,360, 8-12-69, Cl. 68-176.
Hashe, Ambrose L., Jr., to United Merchants and Manufacturers, Inc. Drive arrangement for an apparatus for the fluid treatment of fabric in rope form. 3,460,361, 8-12-69, Cl. 68-176.
Hashemi, Hadi T.; and Lott, Jerry L. Engine for exchanging energy between high and low pressure systems. 3,431,747, 3-11-69, Cl. 62-123.
Hashima, Akio: *See—*
Tonari, Hirohiko; and Hashima, Akio,3,453,896.
Hashimoto, Kazuo: *See—*
Shiomi, Hajime; and Hashimoto, Kazuo,3,455,065.
Hashimoto, Kiyoji: *See—*
Aoe, Seigo; and Hashimoto, Kiyoji,3,434,272.
Hashimoto, Masao; Yamaguchi, Akira; and Nishimura, Hironobu, to Fujitsu Limited. Error system for logic circuits. 3,445,811, 5-20-69, Cl. 340-146.1
Hashimoto, Naoto; and Morita, Katsura, to Takeda Chemical Industries, Ltd. Method for producing fumaronitrile and/or maleonitrile. 3,441,593, 4-29-69, Cl. 260-465.8
Hashimoto, Norishige: *See—*
Matsui, Yutaka; Hashimoto, Norishige; and Mise, Nritoshi,3,480,567.
Yotsuzuka, Masaru; Keshi, Akizo; Hashimoto, Norishige; Kodama, Katsuhisa; and Nakahara, Shigenobu,3,433,751.
Hashimoto, Shogo, to Kaken Kagaku Kabushiki Kaisha. Process for ripening silages. 3,459,554, 8-5-69, Cl. 99-8.
Hashimoto, Takeshi: *See—*
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro,3,449,196.
Hashimoto, Teruo: *See—*
Tanabe, Katsumi; Hayashi, Ryozo; Morisawa, Yasuhiro; Hashimoto, Teruo; Nakazawa, Tadamasa; and Takasaki, Rinji,3,485,848.
Hashimoto, Tsunekazu; Yamamoto, Koichi; Someya, Akira; and Iduda, Isunekazu, to Tokyo Shibaura Electric Co., Ltd. Fluorescent lamps. 3,462,631, 8-19-69, Cl. 313-109.
Hashimoto, Yoshihiro: *See—*
Shimizu, Kanryo; Shimajiri, Tokiji; and Hashimoto, Yoshihiro,3,457,484.
Yoshitake, Norito; Hashimoto, Yoshihiro; and Kobayashi, Kengo,3,430,121.
Hashimoto, Yukio: *See—*
Matsudo, Kazuo; Muroga, Osamu; and Hashimoto, Yukio,3,453,858.
Hashioka, Tokuyasu, to Hope Kabushiki Kaisha. Ski boot toe fixture. 3,421,772, 1-14-69, Cl. 280-11.35
Hashiue, Masakazu: *See—*
Ooue, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu,3,475,096.
Ooue, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu,3,480,365.
Hashizume, Shojiro, to Shimadzu Seisakusho Ltd. Diffraction grating spectrophotometer. 3,472,595, 10-14-69, Cl. 356-96.
Haskell, Albert A., Jr.: *See—*
Day, Dwayne L.; and Haskell, Albert A., Jr.,3,481,799.
Haskell, Philip R.; and Kane, Roger C., to Remington Arms Company, Inc. Target throwing trap. 3,470,860, 10-7-69, Cl. 124-8.
Haskin, Bruce J.: *See—*
Abbott, Albert F.; Haskin, Bruce J.; and Klopich, Marshall E.,3,444,811.
Haskins, Arlie W., to Susquehanna Corporation, The. Methods of making sources of radioactive energy. 3,457,181, 7-22-69, Cl. 252-301.1
Haskins, Lauren D., to Robertshaw Controls Company. Anti-hunting diaphragm valves. 3,468,511, 9-23-69, Cl. 251-61.1
Hasko, Froese: *See—*
Hilgendorf, Joachim; and Hasko, Froese,3,477,064.
Haskon, Inc.: *See—*
Anderson, Russell H.; and Campanelli, John P., 3,454,690.
Garrett, Howard R.; Rhino, Albert F.; and Olila, Howard E., 3,465,494.
Kelly, Norman A., 3,445,984.
Haslam, Alan A.: *See—*
Charlesworth, Paul L.; and Haslam, Alan A.,3,433,027.
Hasler AG: *See—*
Siuda, Karl, 3,484,754.
Hasler, Edmond Francis: *See—*
Martin, Robert Edgar; Hasler, Edmond Francis; and Prewett, James Nigel,3,443,438.
Hasler, Hans: *See—*
Brunner, Emil; Hasler, Hans; and Huber, Alfred,3,436,445.
Hasler, William Sandford. Drive transmission mechanism. 3,468,172, 9-23-69, Cl. 74-33.
Haslett, Gerald W., Jr., to J & L Tank, Inc. Tank for storing and transporting dry or liquid material. 3,420,419, 1-7-69, Cl. 222-544.
Hasquenoph, Jean; and Legendre, Claude, to Commissariat A L'Energie Atomique. Mechanism for the transformation of a rotary movement into a translational movement along a closed curve. 3,424,017, 1-28-69, Cl. 74-60.
Hass, David P.: *See—*
Carey, William R.; and Hass, David P.,3,473,824.
Roper, Daniel W.; Wilkowski, Edward A.; and Hass, David Peter,3,448,636.
Hass, David P., to Eaton Yale & Towne, Inc. Vehicle safety mechanism. 3,451,694, 6-24-69, Cl. 280-150.
Hass, David P., to Eaton Yale & Towne, Inc. Vehicle safety door latch responsive to crash conditions. 3,468,392, 9-23-69, Cl. 180-112.
Hass, David P., to Eaton Yale & Towne, Inc. Vehicle safety apparatus. 3,477,740, 11-11-69, Cl. 280-150.
Hass, David P.; and Horan, Ralph P., to Eaton Yale & Towne, Inc. Mesh forcing with an engine connected brake. 3,476,225, 11-4-69, Cl. 192-4.
Hass, David P.; and Stuemky, Robert E., to Eaton Yale & Towne Inc. Steering mechanism. 3,425,504, 2-4-69, Cl. 180-1.
Hass, Hansjurgen: *See—*
Behr, Erich; and Hass, Hansjurgen,3,444,133.
Hass, Karl W.: *See—*
Hauck, Gerhard F.; Hass, Karl W.; and Lenz, Arnold,3,458,552.
Hass, Karl; Kohlgagen, Walter; Czehovsky, Gunther; and Konermann, Hans-Ewald, to Dynamit Nobel Aktiengesellschaft. Corrosion-endangered parts of apparatus used in alkali metal chloride electrolysis having protective covering of post- chlorinated PVC. 3,436,324, 4-1-69, Cl. 204-128.
Lenz, Arnold; Hass, Karl; and Epler, Hans,3,460,906.
Hass, Robert H., to Union Oil Company of California. Hydrocracking process. 3,458,299, 7-29-69, Cl. 48-213.
Hass, Robert H.; Helfrey, Paul F.; and Riddick, Frank C., to Union Oil Company of California. Hydrocracking process. 3,427,243, 2-11-69, Cl. 208-111.
Hass, Robert H.: *See—*
Wight, Carlyle G.; Hass, Robert H.; and Hansford, Rowland C.,3,450,626.
Hass, Ronald J.: *See—*
Downing, Randall W.; and Hass, Ronald J.,3,430,202.
Hass, Victor E.: *See—*
Whitacre, Donald P.; and Hass, Victor E.,3,437,114.
Hassel, William F., to United States of America, Navy, mesne. Magnetic colloid propulsor. 3,469,401, 9-30-69, Cl. 60-204.
Hasselbach, Wolfgang, to Braun Aktiengesellschaft. Adjustable drive mechanism for phonographs. 3,449,975, 6-17-69, Cl. 74-193.
Hasselbacher, Roland E., to Caterpillar Tractor Company. Seal for helicopter rotor blade pitch control mechanism. 3,460,845, 8-12-69, Cl. 277-92.
Hasselkuss, Eugen; and Kimmig, Emil, to Deutsche Rhodiaceta AG. Crease-proof woven and knitted fabrics. 3,447,884, 6-3-69, Cl. 8-17.
Hasselkuss, Eugen; and Kimmig, Emil, to Deutsche Rhodiaceta AG. Crease-proof woven and knitted fabrics. 3,447,885, 6-3-69, Cl. 8-17.
Hassell, Clark E.; and Dobbs, Lowernze D. Log handling device. 3,477,598, 11-11-69, Cl. 214-379.
Hassell, Howard L.; and Hayter, Roy G., to Shell Oil Company. Alpha olefin block copolymers and their preparation. 3,480,696, 11-25-69, Cl. 260-878.
Hassell, Howard L.; and Shaw, Alfred W., to Shell Oil Company. Hydrogenated diolefin block copolymers. 3,465,063, 9-2-69, Cl. 260-876.
Hassell, Jack V., 1/3 to Munger, Orin R., and 1/3 to Seavey, Clifford E. Oxygenated live bait container. 3,449,855, 6-17-69, Cl. 43-56.
Hassell, Leigh D., Jr.: *See—*
Hall, William C.; Barker, Theodore R., II; and Hassell, Leigh D., Jr.,3,448,859.
Hasselmann, Detlev E.; Tellkamp, Robert G.; and Hetherington, Gary L., to Electro-Optical Systems, Inc. Apparatus and method for determining and controlling stress in an electroformed part. 3,437,568, 4-8-69, Cl. 204-3.
Hasselquist, Victor H., to Goodrich, B. F., Company, The. Enclosure including flaccid non-metallic surfacing. 3,473,272, 10-21-69, Cl. 52-63.
Hasselquist, Victor H., to Goodrich, B. F., Company, The. Method of making laminated belts. 3,481,811, 12-2-69, Cl. 156-249.
Hassencahl, Lloyd J.: *See—*
Garland, William J.; Hassencahl, Lloyd J.; Lenhart, Donald D.; and Wolfe, George, Jr.,3,431,392.
Hasser, George L.: *See—*
Cox, John E.; Hasser, George L.; Boehm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F.,3,467,780.
Hasser, George L., to International Telephone and Telegraph Corporation. Orginating office routing translator. 3,483,331, 12-9-69, Cl. 179-18.

Hassid, Michel; and Garnier, Francois, to Societe Pour l' Etude et La Realisation des Procedes Electroniques de Calcul Analac. System for measuring the vector components of the speed of a body. 3,441,847, 4-29-69, Cl. 324-70.
Hasslacher, Herbert: *See—*
Voster, Reinhold; and Hasslacher, Herbert,3,451,687.
Hassler, Andreas. Method of firing continuously operating kilns for ceramic products. 3,487,135, 12-30-69, Cl. 264-56.
Hassler, John, to Euclid, Inc., mesne. Dump body. 3,462,187, 8-19-69, Cl. 296-28.
Hassler, Otto, to Willco-Horgerate Medizinische Apparatebau, GmbH, mesne. Directional hearing aid. 3,458,668, 7-29-9, Cl. 179-107.
Hasslinger, Russell, to American Velcro, Inc. Closure assembly. 3,431,605, 3-11-69, Cl. 24-205.12
Hasson, Hasan M., to Hollister Incorporated. Intrauterine contraceptive device (IUD). 3,467,089, 9-16-69, Cl. 128-130.
Hasson, Leslie: *See—*
Henderson, Leslie; and Hasson, Leslie,3,440,393.
Hasson, Murray R.: *See—*
Bishop, John D.; Hasson, Murray R.; and Kadri, Fred V.,3,461,405.
Hasson, Sol: *See—*
Holton, Morris J.; and Hasson, Sol,3,443,256.
Hasten, Erwin J., Jr.; and Reed, William B., to General Standard Company. Practice golf club. 3,437,341, 4-8-69, Cl. 273-186.
Hasten, Mark; Jones, Lee S.; Haub, John T.; and Ceroll, Gerald E., to General Mills, Inc. Continuous deep fat fryer. 3,446,138, 5-27-69, Cl. 99-404.
Hasten, Mark; and Lobash, Floyd, to General Mills, Inc. Extrusion apparatus. 3,464,086, 9-2-69, Cl. 18-12.
Hastings, Charles E.; and Cayouette, Robert L., to Teledyne, Inc., mesne. Mobile craft position determination utilizing iso-phase radio navigation systems. 3,426,350, 2-4-69, Cl. 343-105.
Hastings, Charles W., to Honeywell Inc. Storage device with readout system and having photoconductors and ferroelectric devices. 3,435,425, 3-25-69, Cl. 340-173.2
Hastings, Dana B.; and Cederbaum, Laurence R., to Dennison Manufacturing Company. Cover for photocopiers. 3,467,469, 9-16-69, Cl. 355-67.
Hastings Dynamold Corporation: *See—*
Jones, Cordis W.; and Hinman, Clinton R., 3,433,123.
Hastings, John A. Valve. 3,472,486, 10-14-69, Cl. 251-345.
Hastings, John M. Pressure relief valve. 3,463,181, 8-26-69, Cl. 137-382.
Hastings, Joseph C., to Automation Industries, Inc., mesne. Strain gage rosette calculator. 3,474,237, 10-21-69, Cl. 235-151.3
Hastings Manufacturing Company: *See—*
Quinlan, William J.; and Huver, Lawrence L., 3,425,089.
Quinlan, William J.; and Huver, Lawrence L., 3,427,637.
Thompson, Harry B.; and Morgan, William E., 3,435,502.
Wilkinson, James W.; and Shaltis, Robert J., 3,426,900.
Wilkinson, James W.; and Shaltis, Robert J., 3,469,566.
Hastings, Paul F. Ground working machine. 3,420,314, 1-7-69, Cl. 172-42.
Hastrup, Niels E., to Smidth, F. L., & Co. Drum sieves. 3,462,018, 8-19-69, Cl. 209-284.
Hasty, Turner E., to Texas Instruments, Incorporated. Millimeter microwave generator. 3,436,680, 4-1-69, Cl. 331-107.
Haswell, Ronald, to Grubb, Howard, Sir, Parsons Limited. Radiation comparison system for double beam spectrometers. 3,455,636, 7-15-69, Cl. 356-89.
Haswell, Ronald, to Parsons, Howard Grubb, Sir., & Company Limited. Optical interferometers. 3,469,924, 9-30-69, Cl. 356-106.
Hasz, John R.: *See—*
Richter, Robert C.; and Hasz, John R.,3,486,585.
Haszeldine, Robert Neville: *See—*
Goldwhite, Harold; Haszeldine, Robert Neville; and Rowsell, David George,3,474,044.
Hata, Go; and Miyake, Akihisa, to Toyo Rayon Kabushiki Kaisha. Process for producing non-conjugated dienes. 3,475,509, 10-28-69, Cl. 260-680.
Hata, Kunio; and Yokota, Kingo. Process of dissolving cellulosic materials and/or synthetic polymers in liquid sulfur dioxide. 3,424,702, 1-28-69, Cl. 260-17.4
Hatanaka, Yoshihiro: *See—*
Ogura, Junji; Mise, Noritoshi; Yokoo, Makoto; and Hatanaka, Yoshihiro,3,478,089.
Hatano, Ikuo; Koyama, Koichiro; and Nishimura, Tomohiro, to Sumitomo Chemical Company, Ltd. Method of producing a colored anodic oxide film on aluminum. 3,486,991, 12-30-69, Cl. 204-58.
Hatano, Ikuo: *See—*
Yanagida, Kiyomi; Hatano, Ikuo; and Masazumi, Kawai,3,464,909.
Hatano, Isao: *See—*
Abe, Akira; and Hatano, Isao,3,423,576.
Hatashita, Kimio, to Rocker Solenoid Company. Photographic darkroom apparatus. 3,438,709, 4-15-69, Cl. 355-35.
Hataya, Humio: *See—*
Sasaki, Ryoichi; and Hataya, Humio,3,476,556.
Hatazaki, Yasuzo; and Yokogawa, Seiji, to Matsushita Electric Industrial Co., Ltd. Electric stapler apparatus. 3,423,002, 1-21-69, Cl. 227-131.
Hatch, Alan R., to United States of America, Navy. Rotating cylinder character projection apparatus. 3,441,928, 4-29-69, Cl. 340-378.
Hatch, Albert M.: *See—*
Bernert, Robert E.; Hatch, Albert M.; and Stekly, Zdenek J. J.,3,427,391.
Hatch, Asa E., to Dow Chemical Company, The. Clarification and disinfection of water. 3,483,120, 12-9-69, Cl. 210-50.
Hatch, Donald M., to Hitco. Method for fabricating ablative and insulative structures. 3,449,189, 6-10-69, Cl. 156-222.
Hatch, Donald Monroe; and Wood, Walter W., to Hitco. Method for fabricating ablative structures. 3,436,292, 4-1-69, Cl. 156-222.
Hatch, George B.; and Ralston, Paul H., to Calgon Corporation. Method of inhibiting corrosion with aminomethylphosphonic acid compositions. 3,483,133, 12-9-69, Cl. 252-389.
Hatch, Gerald Gordon. Manufacturing steel and alloys of iron. 3,463,629, 8-26-69, Cl. 75-11.
Hatch, Howard H., to Bourns, Inc. Potentiometer. 3,470,519, 9-30-69, Cl. 338-162.
Hatch, John R., to Completion Tools, Inc. Apparatus for selectively completing an oil well. 3,456,725, 7-22-69, Cl. 166-147.
Hatch, Lewis F., to Sun Oil Company. Chlorinated methylmuconates and their preparation. 3,437,687, 4-8-69, Cl. 260-485.
Hatch, Melvin J., to Dow Chemical Company, The. Synthesis of epoxides from allylic sulfonium salts. 3,426,046, 2-4-69, Cl. 260-348.
Hatch, Melvin J., to Dow Chemical Company, The. Synthesis of aromatic epoxides from trialkylsulfonium salts. 3,442,912, 5-6-69, Cl. 260-348.
Hatch, Melvin J., to Dow Chemical Company, The. Synthesis of aromatic epoxides from benzylic sulfonium slats. 3,455,967, 7-15-69, Cl. 260-348.
Hatch, Melvin J., to Dow Chemical Company, The. Synthesis of vinylidene epoxides from allylic sulfonium salts. 3,462,462, 8-19-69, Cl. 260-348.
Hatch, Richard W., Jr., to Foxboro Company, The. Fluid diode. 3,481,353, 12-2-69, Cl. 137-81.5
Hatch, Richard W., Jr.; and Kinner, Hans-Dieter, to Foxboro Company, The. Fluid information system. 3,472,259, 10-14-69, Cl. 137-81.5
Hatch, Robert A.: *See—*
Owens, Kenneth E.; and Hatch, Robert A.,3,458,329.
Hatch, Sherley E.: *See—*
Carnall, Edward, Jr.; Hatch, Sherley E.; Parsons, William F.; and Weagley, Robert J.,3,453,215.
Hatch, Warren E., to Sprague Electric Company. Capacitance-adjusted ceramic capacitor. 3,456,170, 7-15-69, Cl. 317-258.
Hatchard, Donald G., to Westinghouse Electric Corporation. Heating apparatus for metal workpieces. 3,469,052, 9-23-69, Cl. 219-10.47
Hatcher, Arthur L., Jr., to Western Electric Company, Incorporated. Method of bonding an electrical part to an electrical contact. 3,447,236, 6-3-69, Cl. 29-588.
Hatcher, Frank M. Foldable utility building. 3,434,253, 3-25-69, Cl. 52-69.
Hatcher, John E., to Du Pont de Nemours, E. I., and Company. Fluid-cooled catalyst support structure. 3,480,405, 11-25-69, Cl. 23-288.
Hatcher, Norman M.; Groom, Nelson J.; and Newcomb, Arthur L., Jr., to United States of America, National Aeronautics and Space Administration. Electromagnetic mirror drive system. 3,437,394, 4-8-69, Cl. 350-6.
Hatcher, Owen W., Jr., to Teledyne, Inc. Isolated resistor for integrated circuit. 3,432,792, 3-11-69, Cl. 338-311.
Hatcher, Owen W., to Teledyne, Inc. Semiconductive field controlled diode device. 3,454,795, 7-8-69, Cl. 307-344.
Hatfield, Charles T.: *See—*
Becking, Paul E.; and Hatfield, Charles T.,3,469,033.
Hatfield, David D., to Card-Key Systems, Inc. Topographic panorama camera. 3,427,944, 2-18-69, Cl. 95-15.
Hatfield, Herbert M.; Jamison, Egbert Grant; and Jamison, Robert Warren, to Jamison Inc. Collapsable swing support with releasable fastening means. 3,486,751, 12-30-69, Cl. 272-85.
Hatfield, John Edward, to Irvin Industries Inc. Combination buckle and tie tensioning device. 3,423,804, 1-28-69, Cl. 24-273.
Hatfield, John Edward, to Irvin Industries Inc. Anchoring device. 3,425,102, 2-4-69, Cl. 24-113.
Hatfield, John G.; and Murray, Robert M., to AMP Incorporated. Electrical connector means and method of manufacture. 3,420,087, 1-7-69, Cl. 72-338.
Hathaway, Clayton E., Jr., to Monsanto Research Corporation. Organophosphorous polymer protective coating. 3,423,227, 1-21-69, Cl. 117-132.
Hathaway, Clayton E., Jr., to Monsanto Research Corporation. Heat resistant silicone resin coating. 3,455,732, 7-15-69, Cl. 117-132.
Hathaway, Clayton E., Jr.; De Brunner, Ralph E.; and Butler, John Mann, to Monsanto Research Corporation. Nitrogenous polymers prepared from esters of aromatic tetracarboxylic acid derivatives and aromatic tetramines. 3,435,004, 3-25-69, Cl. 260-65.

Hathaway, Clayton E., Jr.: *See—*
Butler, John Mann; and Hathaway, Clayton E., Jr.,3,477,869.
Nielsen, Morris L.; Hathaway, Clayton E., Jr.; and Butler, John Mann,3,455,731.
Hathaway, David B.; and Henry, Irvin E. Dispensing holder for dental burs. 3,451,133, 6-24-69, Cl. 32-22.
Hathaway, Floyd S., to Du Pont de Nemours, E. I., and Company. Extracting siliceous material from an aqueous dispersion with an amido-amine mineral acid salt. 3,485,592, 12-23-69, Cl. 23-312.
Hathaway, Jarrett L., to Radio Corporation of America. Television synchronizing delay compensation system. 3,424,866, 1-28-69, Cl. 178-69.5
Hathaway, Richard E.: *See—*
Gauer, Walter; and Hathaway, Richard E.,3,474,653.
Hathaway, Royston George Walter, to British Aircraft Corporation Limited. Static fluid-tight seals. 3,481,613, 12-2-69, Cl. 277-207.
Hatherell, George A.; and Frantz, John K., to National Screw & Manufacturing Company, The. Stroke counting system for machine operations. 3,441,718, 4-29-69, Cl. 235-92.
Hathorn, Roy C. Apparatus for making shell core and mold products. 3,442,320, 5-6-69, Cl. 164-165.
Hathorne, A. C., Company, The: *See—*
Warner, Walter J., 3,468,086.
Hathwar, Gopadi S., to Ferro Corporation. Sizing composition for glass fibers. 3,454,515, 7-8-69, Cl. 260-29.6
Hathwar, Gopadi S., to Ferro Corporation. Sizing compositions for glass fibers. 3,464,942, 9-2-69, Cl. 260-22.
Hatkin, Leonard, to United States of America, Army. Linear scanning array with adjustable polarizers and hybrids in the coupling network. 3,445,853, 5-20-69, Cl. 343-854.
Hatlapa, Rolf. Heel clamp for a ski binding. 3,481,616, 12-2-69, Cl. 280-11.35
Hatlelid, Elbert L.: *See—*
Williams, Billy J.; and Hatlelid, Elbert L.,3,449,144.
Hatschek, Rudolf A., to Vibro-Meter AG. Piezoelectric transducer. 3,482,121, 12-2-69, Cl. 310-8.4
Hatschek, Rudolf, to Vibro-Meter AG. Indicator adaptor and method for operating it. 3,463,010, 8-26-69, Cl. 73-396.
Hatschek, Rudolf: *See—*
List, Hans; Zeiringer, Rudolf; and Hatschek, Rudolf,3,424,930.
Hatta, Hiroshi; and Mukai, Hiroshi, to Takeda Chemical Industries, Ltd. Process for the production of xylylene diisocyanate. 3,470,227, 9-30-69, Cl. 260-453.
Hatta, Ryozo; Kinugawa, Jiro; Yamamoto, Hiroichi; Sumina, Ikuo; Tamura, Bunzo; and Suzuki, Shigekazu, to Takeda Pharmaceutical Industries, Ltd. Fungicidal composition containing zinc dithiocarbazate. 3,458,638, 7-29-69, Cl. 424-289.
Hatten, Bernard W., to Westinghouse Electric Corporation. Oil noise baffle. 3,480,205, 11-25-69, Cl. 230-232.
Hatterschide, Thomas E., to Ford Motor Company. Process for manufacturing battery plates. 3,486,942, 12-30-69, Cl. 136-67.
Hattersley, Derek: *See—*
Hobson, David; and Hattersley, Derek,3,469,483.
Hatton, John A.: *See—*
Baum, Melvin E.; Fekete, Frank; and Hatton, John A.,3,431,320.
Hatton, John O., to Kelco Company. Apparatus for cutting marine plants. 3,469,377, 9-30-69, Cl. 56-9.
Hatton, Richard L., to Resinite Corporation. Coil form method of manufacture. 3,460,246, 8-12-69, Cl. 29-605.
Hatton, Roger E.: *See—*
Campbell, John Robert; and Hatton, Roger E.,3,450,770.
Hatton, Roger E.; and Stark, Louis R., to Monsanto Company. Polyphenyl ether compositions. 3,423,469, 1-21-69, Cl. 260-611.5
Hatton, Ronald W.; and Romberger, Russell R., to Burroughs Corporation. Coincident current destructive readout magnetic memory system. 3,487,383, 12-30-69, Cl. 340-174.
Hatton, William A.; and Lowrey, Erlend R., to Procter & Gamble Company, The. Culinary mixes. 3,428,461, 2-18-69, Cl. 99-94.
Hattori, Ichiro, to Hosoya Kako Co., Ltd. Automatic inflating floating device. 3,449,777, 6-17-69, Cl. 9-316.
Hattori, Kiyoshi; and Atarashi, Sueo, to Fujisawa Pharmaceutical Co., Ltd. 7-Phenylacetamidocephalosporanic acid derivatives. 3,431,259, 3-4-69, Cl. 260-243.
Hattori, Kiyoshi: *See—*
Takano, Tadayoshi; and Hattori, Kiyoshi,3,453,272.
Hattori, Mitsuhiro: *See—*
Kawamoto, Takuya; Sakoda, Shunsuke; and Hattori, Mitsuhiro,3,449,726.
Hattori, Satohiko: *See—*
Moroe, Tatsuo; Hattori, Satohiko; Komatsu, Akira; Matsui, Takeshi; and Kurihara, Haruki,3,459,773.
Hattori, Shuzo: *See—*
Akao, Yasuo; and Hattori, Shuzo,3,456,185.
Hattori, Staohiko: *See—*
Moroe, Tatsuo; Hattori, Staohiko; Komatsu, Akira; and Muraki, Shigeru,3,459,556.
Hattori, Tadamichi, to Kabushiki Kaisha Crown Sangyo. Liquefied gas lighter. 3,464,442, 9-2-69, Cl. 137-576.
Hattori, Tadamichi; and Nishida, Shingo, to Kabushiki Kaisha Crown Sangyo. Spark ignited gas burner. 3,439,995, 4-22-69, Cl. 431-266.
Hattori, Takeo: *See—*
Anno, Takamitsu; Masuda, Kohei; Hachiya, Kikuo; and Hattori, Takeo,3,451,884.
Hattori, Tatsuaki: *See—*
Imoto, Saburo; Ikari, Kyoichiro; and Hattori, Tatsuaki,3,476,582.
Sezaki, Juniti; Hattori, Tatsuaki; Ikari, Kyoichiro; and Imoto, Saburo,3,442,848.
Hattori, Tosio: *See—*
Hayasaka, Koro; Sato, Fukuji; Hattori, Tosio; and Sato, Takeshi,3,426,234.
Hattrup, Gerald J.: *See—*
Hair, Ronald A.; Hattrup, Gerald J.; and Bramble, John H.,3,421,925.
Hatzfeld, August: *See—*
Liebe, Holm; Heider, Johann; and Hatzfeld, August,3,471,676.
Hau, Antonin, to Ustav pro Vyzkum motorovych Vozidel. Hydromechanical multispeed drives. 3,426,618, 2-11-69, Cl. 74-688.
Haub, John T.: *See—*
Hasten, Mark; Jones, Lee S.; Haub, John T.; and Ceroll, Gerald E.,3,446,138.
Haubein, Albert H., to Hercules Incorporated. Herbicidal compositions containing trisubstituted-phenyl N-methylcarbamates. 3,445,222, 5-20-69, Cl. 71-106.
Haubein, Albert H.; and Hood, Horace E., to Hercules Incorporated. 2-Chloro-5-higher alkylphenol preparation by partial hydrolysis of 1,2-dichloro-5-higher alkylbenzenes. 3,471,577, 10-7-69, Cl. 260-623.
Hauber, Charles E.; and Kittredge, Raymond E., to Singer-General Precision, Inc. Optical screen orbital movement system. 3,473,862, 10-21-69, Cl. 350-120.
Hauber, Ferdinand R., to Brown & Root, Inc. Offshore tower. 3,429,133, 2-25-69, Cl. 61-46.5
Hauck, Charles J. Pool cover. 3,443,265, 5-13-69, Cl. 4-172.
Hauck, Charles J. Integral coping and walk for swimming pools. 3,464,067, 9-2-69, Cl. 4-172.
Hauck, Erwin A.: *See—*
Barton, Robert S.; Creech, Bobby A.; Dent, Benjamin A.; Hauck, Erwin A.; and McKeeman, William M.,3,461,434.
Behr, Michael I.; and Hauck, Erwin A.,3,439,354.
Hauck, Fred P., Jr.: *See—*
Fleming, Robert W.; and Hauck, Fred P., Jr.,3,457,270.
Hauck, Gerhard F.; Hass, Karl W.; and Lenz, Arnold, to Dynamit Nobel Aktiengesellschaft. Process for the preparation of condensed mixed metal alcoholates. 3,458,552, 7-29-69, Cl. 260-448.
Hauck, Gerhard: *See—*
Ambros, Otto; Hauck, Gerhard; and Frings, Manfred,3,458,378.
Hauck, Gunther; Herold, Gerhard; and Schroer, Hans-Gunther, to Westfalische Union AG fur Eisen- und Drahtindustrie. Device for unwinding wire from a reel. 3,469,801, 9-30-69, Cl. 242-54.
Hauck, James; and George, Donald, to International Rectifier Corporation. Housing structure and method of manufacture for semiconductor device. 3,424,852, 1-28-69, Cl. 174-17.05
Haucke, Paul A.: *See—*
Rosenfeld, Seymour; Schwab, Ronald W.; and Haucke, Paul A.,3,459,029.
Hauel, Anna P.; Hill, James S.; and Reilly, William E., to Engelhard Industries, Inc. Fuel cell with titanium-containing electrode and process of use thereof. 3,437,525, 4-8-69, Cl. 136-86.
Hauel, Anna P.; and Langley, Robert C., to Engelhard Industries, Inc. Method for preparing chromium containing films. 3,434,871, 3-25-69, Cl. 117-119.
Hauenstein, Max C.: *See—*
Green, James, Jr.; and Hauenstein, Max C.,3,476,331.
Hauer, Charles R., to Technical Operations, Incorporated. Preserving photostored images. 3,466,127, 9-9-69, Cl. 355-40.
Hauer, James R., to Northrop Corporation. Optical pick-off pressure transducer having fixed shutter and movable shutter having fixed portion. 3,457,426, 7-22-69, Cl. 250-231.
Hauer, Werner, to International Telephone and Telegraph Corporation. Automatic sorting system for discrete flat articles. 3,452,509, 7-1-69, Cl. 53-52.
Haueter, Jean, to Vimetal S.A. Main spring slipping ring for a self winding timepiece. 3,465,514, 9-9-69, Cl. 58-86.
Haufe, Ted B.; and Uitti, Kenneth D., to Universal Oil Products Company. Separation method for purifying an edible oil solvent. 3,457,166, 7-22-69, Cl. 208-301.
Hauffe, William L.: *See—*
Mueller, Frank H.; Hauffe, William L.; and Hood, William A.,3,480,042.
Haug, Anton J.: *See—*
Haug, Anton J., 3,427,690.
Haug, Anton J., to Doyle, Marie J., executrix for the Estate of Haug, Anton J. Apparatus for working fibrous materials. 3,427,690, 2-18-69, Cl. 19-66.

Haug, Juergen: *See—*
Nonnenmacher, Helmut; Appl, Max; Haug, Juergen; and Andrussow, Konstantin,3,431,284.
Haug, Peter: *See—*
Reif, Werner; Haug, Peter; Freyschlag, Herwig; and Pommer, Horst,3,485,859.
Haugan, John R.: *See—*
Rockerath, John L.; and Haugan, John R.,3,435,786.
Hauge, Douglas O., to Bohna, B. D., & Co. Process for the production of monoammonium and diammonium phosphate. 3,472,616, 10-14-69, Cl. 23-107.
Haugen, Leif Gunnar: *See—*
Holtermann, Hugo; Haugen, Leif Gunnar; Thorsdalen, Nils; Tjonneland, Knut; Wille, Knut; and Koutroulos, Jean,3,476,802.
Haugh, Eugene Frederick, to Du Pont de Nemours, E. I., and Company. Photosoluble silver halide emulsion made spontaneously developable with amine boranes. 3,451,819, 6-24-69, Cl. 96-95.
Haugh, Eugene Frederick, to Du Pont de Nemours, E. I., and Company. Process for obtaining artistic effects in photosoluble direct positive silver halide emulsions. 3,486,895, 12-30-69, Cl. 96-64.
Haught, Alan F.: *See—*
Meyerand, Russell G., Jr.; and Haught, Alan F.,3,463,588.
Haughton, Kenneth E.: *See—*
Fischer, Christopher L.; and Haughton, Kenneth E.,3,428,197.
Hauk, Ernest D., 10% to Carstensen, Kenneth J. Apparatus and method for testing well pipe. 3,478,577, 11-18-69, Cl. 73-49.1
Hauk, Peter; and Porter, Joe A., to Beckman Instruments, Inc. Oxygen sensor with scavenger means. 3,454,485, 7-8-69, Cl. 204-195.
Haulik, Leo J.; Bradbury, James G.; Greer, Leonard S.; and Decker, Clarence W., to Hays Manufacturing Company. Pipe coupling. 3,428,339, 2-18-69, Cl. 285-94.
Haulotte, Arthur. Telescopic boom crane. 3,469,712, 9-30-69, Cl. 212-55.
Haumesser, Robert L.; and Meyer, John A., to Sylvania Electric Products, Inc. Oven temperature control system. 3,454,743, 7-8-69, Cl. 219-412.
Haun, Robert D., Jr.: *See—*
Church, Charles H.; Davenport, William S.; and Haun, Robert D., Jr.,3,483,481.
Haun, Robert E.: *See—*
Pyles, Harley G.; Albright, Charles D.; and Haun, Robert E.,3,467,207.
Hauni-Werke Koerke Koerber & Co. K.G.: *See—*
Mielke, Johannes; and George, Rudolf, 3,461,881.
Hauni-Werke Korber & Co., KG: *See—*
Bardenhagen, Dietrich, 3,448,846.
Bardenhagen, Dietrich, 3,460,687.
Bardenhagen, Dietrich; and Niemann, Helmut, 3,476,002.
Bardenhagen, Dietrich; and Schubert, Bernhard, 3,479,787.
Goemann, Juergen; and Grimm, Wolfgang, 3,479,913.
Hagenah, Klaus, 3,450,440.
Hinzmann, Alfred, 3,483,873.
Kochalski, Horst, 3,473,538.
Kochalski, Horst; Rudszinat, Willy; Suck, Hans; Rode, Ludwig; David, Harri; and Erdmann, Otto, 3,481,447.
Menge, Gunter, 3,472,355.
Oesterling, Erwin; and Torbeck, Johann, 3,473,536.
Richter, Willy, 3,431,914.
Schubert, Bernhard, 3,444,981.
Schubert, Bernhard, 3,486,405.
Wahle, Gunter, 3,431,398.
Wahle, Gunter; and Lorenzen, Heinz-Christen, 3,431,827.
Wochnowski, Waldemar, 3,482,162.
Haupt, Aleksander, to Marotta Valve Corporation. Gas regulator with electronic pressure control. 3,455,323, 7-15-69, Cl. 137-116.5
Haupt, Josef, to Drager, Otto Heinrich. Narcosis apparatus. 3,446,243, 5-27-69, Cl. 137-599.1
Haupt, Winfried: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Hauptfuhrer, George J.: *See—*
Roemer, Henry C.,3,446,264.
Hauptmann, Karl Heinz: *See—*
Zeile, Karl; Hauptmann, Karl Heinz; and Stahle, Helmut,3,454,701.
Haury, Heinz, Dr., Chemische Fabrik: *See—*
Fried, Rudolf; and Hoeflmayr, Joachim, 3,477,818.
Haus, Arthur: *See—*
Wolf, Karlheinz; Haus, Arthur; Mager, Theodor; Hornle, Reinhold; and Bechlars, Franz,3,458,804.
Hausam, Leonard P., to Charter Design and Manufacturing Co. Automatic urn coffeemaker. 3,459,118, 8-5-69, Cl. 99-291.
Hauschildt, Klaus-Robert: *See—*
Kleeberg, Wolfgang; Denk, Hans; and Hauschildt, Klaus-Robert,3,438,909.
Hauschke, Manfred; and Ebbinghaus, Erich, to Kolthaus & Busch K.G. Method of securing tube end portions in bores of a heavy plate by pilgrim step rolling. 3,449,812, 6-17-69, Cl. 29-157.4
Hause, Norman L.; and Swalheim, Donald Arthur, to Du Pont de Nemours, E. I., and Company. Additives for tin electroplating bath. 3,453,186, 7-1-69, Cl. 204-54.
Hausegger, Josef. Shiftable road path limiting stake. 3,442,187, 5-6-69, Cl. 94-1.5
Hauser, Daniel: *See—*
Sigg, Hans-Peter; Flury, Erich; and Hauser, Daniel,3,428,652.
Hauser, Frederick L.: *See—*
Bray, Russell S.; and Hauser, Frederick L.,3,421,499.
Hauser, Hans, to J. B. Foundry Co., The. Transmission shift mechanism. 3,426,611, 2-11-69, Cl. 74-475.
Hauser, Hans, to Foote, J. B., Foundry Co., The. Transmission with brake. 3,485,329, 12-23-69, Cl. 192-4.
Hauser, Henry K., to United States of America, Navy. Cabinet securing mechanism. 3,467,461, 9-16-69, Cl. 312-333.
Hauser, Martin: *See—*
Carvalho, Dorothy Ann; Hauser, Martin; Schriffert, Edward John; and Sprague, George Sidney,3,431,151.
Hauser, Martin, to American Cyanamid Company. Diesters of N-nitro-imino-bis-carboxylic acids, useful as additives in explosives or propellants. 3,421,955, 1-14-69, Cl. 149-19.
Hauser, Martin, to United States of America, Navy, mesne. Triazole triazines and method of preparation. 3,431,251, 3-4-69, Cl. 260-140.
Hauser, Martin; and Sprague, George Sidney, to American Cyanamid Company. Compositions containing aromatic sulfonyl aziridine as curing agents. 3,431,152, 3-4-69, Cl. 149-19.
Hauser, Raimund: *See—*
Broeckl, Heinz Wilhelm; and Freudenschuss, Otto, 3,464,765.
Freudenschusz, Otto, 3,432,229.
Freudenschusz, Otto, 3,463,580.
Wessner, Harald, 3,428,394.
Hauser, Ralph I.: *See—*
Rushing, Frank C.; Murphy, Bernard J., Jr.; Hauser, Ralph I.; and Shephard, Basil S.,3,474,976.
Hauser, Ray L., to Branson Instruments Incorporated. Method of bonding using exothermic adhesive activated by ultrasonic energy. 3,480,492, 11-25-69, Cl. 156-73.
Hauser, William G.: *See—*
Milan, Henry J.; and Hauser, William G.,3,437,300.
Hauser, Willis D. Resilient container opening means. 3,443,712, 5-13-69, Cl. 215-9.
Hausermann, Elmer P. Apparatus for shaping electrodes. 3,465,480, 9-9-69, Cl. 51-157.
Hausermann, Heinrich: *See—*
Allison, Robert Corwin; Fischer, Franz; and Hausermann, Heinrich,3,479,349.
Hausermann, Heinrich, to Geigy Chemical Corporation. 7-Triazinylamino-coumarin. 3,429,880, 2-25-69, Cl. 260-249.5
Hausermann, Heinrich; Schlapfer, Hans; and Tscharner, Christopher Johannes, to Geigy Chemical Corporation. Crystalline form of a bis-triazinylamino stilbene optical brightener and process for making same. 3,472,842, 10-14-69, Cl. 260-240.
Voltz, Jacques; and Hausermann, Heinrich,3,458,880.
Zussman, Hyman William; and Hausermann, Heinrich,3,459,743.
Hausermann, Pascal: *See—*
Camoletti, Bruno; and Hausermann, Pascal,3,468,083.
Hausher, Lawrence B.: *See—*
Bennett, Robert W.; Blanding, Wendell S.; and Hausher, Lawrence B.,3,473,909.
Hausler, Michael: *See—*
Koppelmann, Floris; Hausler, Michael; and Knuth, Detlef,3,450,983.
Hausman Corporation: *See—*
Haney, Howard A., 3,471,117.
Hausmann, Gunter, to VEB Pentacon Dresden Kamera- und Kinowerke. Camera pretimer mechanism. 3,424,073, 1-28-69, Cl. 95-53.3
Hauss, Joseph A. Means for continuously blending miscible materials. 3,460,809, 8-12-69, Cl. 259-4.
Haussmann, Hans K.; and Sinnette, John T., Jr. Air breathing missile. 3,486,338, 12-30-69, Cl. 60-207.
Haussner, Theodor H. W.: *See—*
Easton, Rufus; and Haussner, Theodor H. W.,3,455,370.
Hausweiler, Arnold; Hammann, Ingeborg; and Behrenz, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft vormals Meister Lucius & Bruning. Phenyl-N-methyl carbamic acid esters. 3,470,236, 9-30-69, Cl. 260-470.

Hausweiler, Arnold; and Scherhag, Bernhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of acrylonitrile. 3,433,822, 3-18-69, Cl. 260-465.3
Hautala, Richard E.: *See—*
Calton, Marion R.; and Hautala, Richard E.,3,452,422.
Goloff, Alexander; Hautala, Richard E.; and White, Claude F.,3,478,411.
Hautau, Charles F., to Black Clawson Company, The. Forging apparatus. 3,453,856, 7-8-69, Cl. 72-306.
Hautau, Charles F., to Black Clawson Company, The. Machine tool. 3,453,910, 7-8-69, Cl. 77-4.
Hautau, Charles F., to Black Clawson Company, The. Machine tool. 3,456,557, 7-22-69, Cl. 90-15.
Hautau, Charles F., to Black Clawson Company, The. Conversion of sheet material into smaller pieces. 3,468,199, 9-23-69, Cl. 83-15.
Hautau, Charles F., to Black Clawson Company, The. Forging apparatus. 3,472,058, 10-14-69, Cl. 72-407.
Hauth, Charles R.; and Sheatsley, Larry L., to Dresser Industries, Inc. Checkerbrick and checkerwork construction for regenerators. 3,436,064, 4-1-69, Cl. 263-51.
Hauville, Jean. Portable micro-hood. 3,430,551, 3-4-69, Cl. 98-115.
Havard, Jean: *See—*
Chevallier, Jacques; and Havard, Jean,3,448,797.
Havas, Jeno: *See—*
Pungor, Erno; Havas, Jeno; Toth, Klara; and Madarasz, Geza,3,446,726.
Haveg Industries, Inc.: *See—*
Anderson, Robert W., 3,484,532.
Cronin, Edward W.; and Weber, Walter O., 3,437,722.
Gupta, Subodh C., 3,457,091.
Ohsol, Ernest O., 3,424,645.
Perreault, Aime Joseph, 3,440,235.
Treadwell, Peter A., 3,463,451.
Ward, John M.; and Squire, George L., 3,454,453.
Weber, Walter O., 3,432,380.
Havel, Daniel F.: *See—*
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F.,3,426,191.
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F.,3,436,543.
Havelock, William E. B.: *See—*
Jackson, Herbert C.; Havelock, William E. B.; and Morrison, Albert W.,3,462,302.
Havens, Frederick D.: *See—*
Tyler, John M.; Havens, Frederick D.; Hickok, Richard C.; and Feder, Ernest,3,420,053.
Havens, Glenn G., to Havens International. Solvent separation process and apparatus. 3,457,170, 7-22-69, Cl. 210-23.
Havens International: *See—*
Havens, Glenn G., 3,457,170.
Haver & Boecker: *See—*
Schwake, Paul, 3,473,396.
Schwake, Paul; and Bruder, Alfred, 3,474,836.
Haver, William B., to FMC Corporation. Conveyor fed aerodynamic separator. 3,471,013, 10-7-69, Cl. 209-133.
Haver-Lockhart Laboratories, Incorporated: *See—*
Hardy, Frank M., 3,469,003.
Havera, Herbert John, to Miles Laboratories, Inc. Tetrahydro-1-benzazepin-2(1H)-one derivatives. 3,475,414, 10-28-69, Cl. 260-239.3
Havera, Herbert John, to Miles Laboratories, Inc. 2-Oxo-1,2,3,4,5,6-hexahydrobenzoazocine derivatives. 3,475,416, 10-28-69, Cl. 260-239.3
Haverbeck, Gunther: *See—*
Van Winsen, Friedrich H.; and Haverbeck, Gunther,3,481,622.
Haverberg Auto Laundry Co., Inc.: *See—*
Van Brakel, Russel A., 3,474,739.
Haverstock, Charles B. Window display and method of making the same. 3,420,728, 1-7-69, Cl. 161-6.
Havette, Claude; Lazareff, Michel; and Soulez-Lariviere, Jean, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Faired propeller with diffuser. 3,447,741, 6-3-69, Cl. 230-122.
Haviland, Girard S.; Gerber, Murray A.; and Stager, Francis W., to Jacobs Manufacturing Company, The. Anti-skid system for motor vehicles having air brakes. 3,447,838, 6-3-69, Cl. 303-21.
Haviland, Lyman J.; and Meinema, Herbert E., to Hammond Corporation. Tone signal generator. 3,469,135, 9-23-69, Cl. 310-170.
Havlicek, Karel; and Kostal, Alois, to PAL, narodni podnik. Flasher and turn indicator circuit for vehicle and selector switch therefor. 3,469,233, 9-23-69, Cl. 340-81.
Havn, Svend E., to General Electric Company. Deflection circuit. 3,435,280, 3-25-69, Cl. 315-27.
Havn, Svend E., to General Electric Company. Deflection system for flat cathode ray tube having canted electron gun in plane parallel to display screen. 3,461,333, 8-12-69, Cl. 313-77.
Havn, Svend E.; and Namordi, Mooshi R., to General Electric Company. Deflection system for a flat tube display. 3,435,277, 3-25-69, Cl. 315-18.
Havn, Svend E.; and Namordi, Mooshi R., to General Electric Company. Flat display tube with a compact electron gun assembly. 3,445,716, 5-20-69, Cl. 315-18.
Haw, Sherwood G., to Banister Corporation, The. Electrostatic pipe coating method and apparatus. 3,453,134, 7-1-69, Cl. 117-17.
Hawaiian Sugar Planters Association: *See—*
Bolles, Elmer Richard, 3,464,470.
Gibson, Warren O., 3,468,130.
Nickell, Louis G.; and Tanimoto, Tyrus T., 3,482,958.
Nickell, Louis G.; and Tanimoto, Tyrus, 3,482,959.
Nickell, Louis G.; and Tanimoto, Tyrus T., 3,482,961.
Onna, Kenneth M., 3,462,683.
Redditt, William M., III, 3,464,209.
Sloane, George E.; and Onna, Kenneth M., 3,468,607.
Hawerkamp, Manfred. Method of making continuous corrugated plastic pipe. 3,477,891, 11-11-69, Cl. 156-143.
Hawes, Alan B. Monorail switching system. 3,451,351, 6-24-69, Cl. 104-130.
Hawes, Alan B. Electronic tire deflation detecting device. 3,462,735, 8-19-69, Cl. 340-58.
Hawes, James E.: *See—*
Palson , Richard C. J.; and Hawes, James E.,3,466,963.
Hawes, John A.: *See—*
Brennan, Edmund F.; and Hawes, John A.,3,435,758.
Hawes, Richard S., III: *See—*
Edelmann, Eugene F.; and Hawes, Richard S., III,3,451,876.
Hawes, Robert O.; Page, Robert Z.; and Reed, Benjamin E. Connector for wooden members. 3,469,867, 9-30-69, Cl. 287-51.
Hawes, Roland J., Jr.: *See—*
Hawes, Roland J., Jr.; and Pierce, Wellington C., 3,437,075.
Hawes, Roland J., Jr.; and Pierce, Wellington C., to Hawes, Roland J., Jr., mesne. Method and apparatus for administering feed additives to livestock and poultry. 3,437,075, 4-8-69, Cl. 119-51.
Hawgood, David: *See—*
Steptoe, Brian John; Hawgood, David; and Ties, Sidney,3,459,847.
Hawk, Charles E.: *See—*
Baker, William C.; Benson, James M.; and Hawk, Charles E.,3,443,434.
Hawk, Dale A.: *See—*
Lane, Malcolm S.; and Hawk, Dale A.,3,461,646.
Hawk, Dale W.: *See—*
Rockwell, Harvey W.; and Hawk, Dale W.,3,430,367.
Hawk, Dale W., to Allis-Chalmers Manufacturing Company. Ejector mechanism for earthmoving scraper. 3,462,859, 8-26-69, Cl. 37-126.
Hawk, Elwin A., Sr., to Coast Metals, Inc. Adapter for converting torch to powder spray work. 3,436,019, 4-1-69, Cl. 239-85.
Hawk, George W., to Moog Inc. Positive centering servovalve having movable nozzle block. 3,430,656, 3-4-69, Cl. 137-625.61
Hawk, Raymond A., Jr., to Mack Truck, Inc. Two-stage rubber vehicle suspension. 3,434,708, 3-25-69, Cl. 267-63.
Hawke, Eugene E.; and Mackie, William A. Load-resisting structures made of thin-walled, square tubing and connected with novel square, non-twisting couplings. 3,462,021, 8-19-69, Cl. 211-182.
Hawke, Ronald S., to United States of America, Atomic Energy Commission. Interferometric method and apparatus. 3,471,238, 10-7-69, Cl. 356-107.
Hawker Siddeley Dynamics Limited: *See—*
Bedford, Alan, 3,421,317.
Goslin, Geoffrey Walter, 3,469,162.
Thompson, Lionel R. F., 3,441,877.
Hawkes, Edward N.: *See—*
Somekh, George S.; and Hawkes, Edward N.,3,433,788.
Hawkes, John H., to Norton Company. Abrasive cutting device. 3,440,773, 4-29-69, Cl. 51-206.
Hawkes, Joseph S., to Goodyear Tire & Rubber Company, The. Valve for dual chambered tires. 3,422,836, 1-21-69, Cl. 137-234.5
Hawkes, Joseph S.; and D'Avello, Faust S., to Goodyear Tire & Rubber Company, The. Valve mechanism. 3,421,535, 1-14-69, Cl. 137-234.5
Hawkes, Thaddeus: *See—*
Dupraz, Jacques; and Hawkes, Thaddeus,3,463,911.
Hawkey, Charles W.: *See—*
Brady, Robert M.; Hawkey, Charles W.; and Kirby, John E.,3,442,302.
Hawkins, Arthur D., to Indev, Inc. Apparatus for flocking articles. 3,426,729, 2-11-69, Cl. 118-312.
Hawkins, Benjamin K. Conduit system. 3,476,869, 11-4-69, Cl. 174-68.
Hawkins, Charles G.: *See—*
Liddle, Stephen W.; and Hawkins, Charles G.,3,443,768.
Hawkins, Cyril M., to General Motors Corporation. Shaft coupling. 3,449,926, 6-17-69, Cl. 64-6.
Hawkins, Cyril M.; and Richardson, Truman R., to General Motors Corporation. Torque-responsive device. 3,422,703, 1-21-69, Cl. 74-801.
Hawkins, Cyril M.; and Richardson, Truman R., to General Motors Corporation. Reduction gear. 3,430,522, 3-4-69, Cl. 74-801.
Hawkins, Edwin F.: *See—*
Batchelor, Gordon S.; and Hawkins, Edwin F.,3,480,710.
Hawkins, Edwin George Edward, to Distillers Company Limited, The. Process for the production of compounds containing peroxy

groups and products derived from such compounds. 3,484,199, 12-16r69, Cl. 23-207.
Hawkins, Eldon W., to United States of America, Navy. Phase sensitive modulator and demodulator utilizing a single transformer. 3,434,075, 3-18-69, Cl. 332-43.
Hawkins, Frederick E., to Certain-Teed Products Corporation. Roof structure. 3,423,895, 1-28-69, Cl. 52-303.
Hawkins, Gary F., to Eastman Kodak Company. Process for manufacture of high purity α- cyanoacrylates. 3,465,027, 9-2-69, Cl. 260-464.
Hawkins, Gary F.: *See—*
Irick, Gether, Jr.; and Hawkins, Gary F.,3,487,114.
Hawkins, Harold M.; and Christensen, Don C., to Phillips Petroleum Company. Suspension handling. 3,428,619, 2-18-69, Cl. 260-93.7
Hawkins, Havilah S. Work feed mechanism for bandsaw machines. 3,476,159, 11-4-69, Cl. 143-26.
Hawkins, Houston T.: *See—*
Schmidt, Donald L.; and Hawkins, Houston T.,3,485,272.
Hawkins, James Mitchell, to Frankenstein Group Limited. Inflatable body-attachments for marine lifesaving. 3,475,774, 11-4-69, Cl. 9-341.
Hawkins, John J.: *See—*
Olechowski, Jerome Robert; Chappell, Sterling Frank, III; and Hawkins, John J.,3,457,319.
Hawkins, Mervyn Roy, to Ashton Containers Limited, mesne. Transportable container. 3,433,400, 3-18-69, Cl. 229-14.
Hawkins, Paul Maddison, to General Alarm Corporation. Lock mechanism and alarm. 3,427,413, 2-11-69, Cl. 200-44.
Hawkins, Paul Maddison, to General Alarm Corporation. Protection system. 3,444,546, 5-13-69, Cl. 340-271.
Hawkins, Paul Maddison, to General Alarm Corporation. Cylinder lock. 3,464,243, 9-2-69, Cl. 70-364.
Hawkins, Paul Maddison, to General Alarm Corporation. Security system. 3,471,188, 10-7-69, Cl. 292-140.
Hawkins, Ralph W.: *See—*
McKnight, William B.; Dearman, James R.; and Hawkins, Ralph W.,3,481,340.
Hawkins, Raymond L.; and Davidowich, George, to Air Reduction Company, Incorporated. Polyvinyl alcohol-boric acid-containing composition, treatment of paper web therewith and the treated paper web. 3,438,808, 4-15-69, Cl. 117-155.
Hawkins, Robert D. Compatible electrical outlet socket and plug. 3,441,896, 4-29-69, Cl. 339-14.
Hawkins, Robert D., to Sperry Rand Corporation. Pattern recognition apparatus. 3,453,596, 7-1-69, Cl. 340-146.3
Hawkins, Robert D. Marine platforms. 3,466,876, 9-16-69, Cl. 61-46.5
Hawkins, Robert D. Flotation apparatus. 3,468,279, 9-23-69, Cl. 114-67.
Hawkins, Royal R., to Honeywell Inc. Tracer control apparatus with means to correct trace rate error. 3,452,641, 7-1-69, Cl. 90-13.5
Hawkins, Royal R.; and Ong, Thean Chye, to Honeywell Inc. Tracer servo control apparatus for a machine tool with slow down means for the feed axis. 3,454,853, 7-8-69, Cl. 318-18.
Hawkins, Thomas D.: *See—*
Cooper, Martin H.; and Hawkins, Thomas D.,3,450,508.
Hawkins, Thomas W.: *See—*
Goetz, Raymond J.; Hawkins, Thomas W.; and Rose, Joseph F.,3,420,430.
Hawkins, Willard S., to Sonoco Products Company. Textile carrier. 3,450,370, 6-17-69, Cl. 242-118.32
Hawkins, William M., Jr. Leak detector. 3,485,085, 12-23-69, Cl. 73-46.
Hawkins, William R., to Newcomb Electronics Corporation. Direct-coupled transistor amplifier employing resistive feedback and common biasing means. 3,477,030, 11-4-69, Cl. 330-19.
Hawkinson, Paul E.: *See—*
Sornsen, Wallace V., 3,423,272.
Hawkinson, Paul E., Company: *See—*
Hawkinson, Raymond P., 3,464,873.
Hawkinson, Raymond P., to Hawkinson, Paul E., Company. Method of treading pneumatic casings. 3,464,873, 9-2-69, Cl. 156-96.
Hawks, Orris D.: *See—*
Cawley, John D.; and Hawks, Orris D.,3,459,492.
Hawks, Otis J., 50% to Russell, Charles E. Vehicle air-conditioning system with theft prevention means. 3,485,059, 12-23-69, Cl. 62-209.
Hawkshaw, John Knox. Water bombing system for hydroplanes. 3,423,053, 1-21-69, Cl. 244-136.
Hawle, Erwin. Pipe drill clamp and attachment. 3,420,261, 1-7-69, Cl. 137-317.
Hawley, George F., to Wagner Research Corporation. Flat article processing apparatus having a common blank supply feeding a plurality of worklines. 3,477,397, 11-11-69, Cl. 112-2.
Hawley, Harry R., to American Can Company, mesne. Stackable plastic container. 3,485,412, 12-23-69, Cl. 220-97.
Hawley, Irving H., Jr., to Hewlett-Packard Company. Phase-lock frequency shift compensation. 3,482,181, 12-2-69, Cl. 331-2.
Hawley, Jack S.; and Towner, George R., to Berkeley Instruments. Digital data system. 3,434,136, 3-18-69, Cl. 340-347.
Hawley Manufacturing Corporation: *See—*
Scheel, John R.; and Nordman, Adolph J., Jr., 3,478,668.
Scheel, John R., 3,481,265.
Hawley, Paul A.; and Eikermann, Jerry G., to McGraw-Edison Company. Depth adjustment for power tool. 3,443,479, 5-13-69, Cl. 90-12.
Hawley, Robert L., to Libby, McNeill & Libby. High protein product and process for producing same. 3,469,991, 9-30-69, Cl. 99-17.
Hawley, Roger S.: *See—*
Mertzweiller, Joseph K.; Cull, Neville L.; and Hawley, Roger S.,3,425,895.
Hawley, Roger S., to Esso Research and Engineering Company. Laminates of chlorinated low unsaturated rubbers and highly unsaturated rubbers, method making same and blends of such rubbers. 3,454,462, 7-8-69, Cl. 161-243.
Hawley, Roger S.; and Vanderbilt, Byron M., to Esso Research and Engineering Company. Cured PVC-rubber and resin blends. 3,424,818, 1-28-69, Cl. 260-836.
Vanderbilt, Byron M.; and Hawley, Roger S.,3,481,912.
Haworth, Ernest; and Minford, John Norman, to Imperial Chemical Industries Limited. Preparation of linear polyamides using a temperature differential. 3,471,452, 10-7-69, Cl. 260-78.
Haworth, Gordon R.; and Zambas, Peter G., to United States of America, Interior, mesne. Blasting arrangement for oil shale mining. 3,466,094, 9-9-69, Cl. 299-13.
Haworth, Lionel, to Bristol Siddeley Engines, Limited. Structure for segregating foreign matter from the air of an air intake for a gas turbine engine. 3,436,910, 4-8-69, Cl. 60-39.09
Hawrylewicz, Ervin J.: *See—*
Sumyk, George B.; Kyle, Joseph L.; and Hawrylewicz, Ervin J.,3,451,996.
Hawthorne, Herman F., to United States of America, Army. Multi-charge cartridge for multi-barrel automatic guns. 3,437,039, 4-8-69, Cl. 102-38.
Hawthorne, James M. Retractable propulsion means for ships. 3,483,843, 12-16-69, Cl. 115-41.
Hawthorne, Marion F.; and Pitochelli, Anthony R., to Rohm & Haas Company. Boron, nitrogen and hydrogen containing compounds. 3,453,092, 7-1-69, Cl. 23-358.
Hawthorne, Nathaniel F. Juice extractor. 3,464,344, 9-2-69, Cl. 100-102.
Hawthorne, Vernon D., 50% to Boney, James Finley. Remote starting device for motor vehicles. 3,455,403, 7-15-69, Cl. 180-1.
Hawtin, Selwyn George; Smith, David Roger; and Field, Dennis Ronald, to Courtaulds Limited. Apparatus and method for producing crimped filamentary materials. 3,477,218, 11-11-69, Cl. 57-34.
Hawxhurst, John E., to International Business Machines Corporation. Printer platen control. 3,442,210, 5-6-69, Cl. 101-407.
Haxby, Robert D., to Procter & Gamble Company, The. Production of detergent compositions containing finely dispersed optical brighteners. 3,485,761, 12-23-69, Cl. 252-110.
Hay, Alan Edward: *See—*
Loukes, David Gordon; and Hay, Alan Edward,3,480,420.
Hay, Allan S., to General Electric Company. Process of making poly-(2,6-diaryl-1,4-phenylene ethers. 3,432,466, 3-11-69, Cl. 260-47.
Hay, Allan S., to General Electric Company. Process for producing high molecular weight polymers from impure 2,6-xylenol. 3,432,469, 3-11-69, Cl. 260-47.
Hay, Allan S., to General Electric Company. Products obtained by cleaving polyphenylene ethers. 3,442,858, 5-6-69, Cl. 260-47.
Hay, Allan S., to General Electric Company. 2,6-Diarylphenols. 3,481,990, 12-2-69, Cl. 260-619.
Hay, Donald A.: *See—*
Finlay, Walter L.; Hay, Donald A.; and Hess, Wendell T.,3,474,516.
Hay, Harold R. Process and apparatus for modulating the temperature within enclosures. 3,450,192, 6-17-69, Cl. 165-1.
Hay, John O.; and Grodek, Raymond J., to Kewanee Oil Company. Process for converting ammonium paratungstate to a more soluble form. 3,472,613, 10-14-69, Cl. 23-23.
Hay, Robert H. Vehicle wash systems. 3,451,085, 6-24-69, Cl. 15-21.
Hay, Russell G.; Mc Nutly, John G.; and Walsh, William L., to Gulf Research & Development Company. Process for the production of olefin codimers from alkyl aluminum chlorides. 3,461,184, 8-i2-69, Cl. 260-683.15
Hay, Russell G.; and Walsh, William L., to Gulf Research & Development Company. Process for oxidizing hydrogen bromide to obtain bromine. 3,437,445, 4-8-69, Cl. 23-216.
Hay, William D.: *See—*
Lieber, Sidney U.; and Hay, William D.,3,421,000.
Lieber, Sidney U.; and Hay, William D.,3,456,115.
Hayakawa Denki Kogyo Kabushiki Kaisha: *See—*
Asada, Atsushi; and Washizuka, Isamu, 3,469,085.
Asada, Atsushi; and Washizuka, Isamu, 3,486,015.
Inoguchi, Toshio; Niwa, Ichihiko; and Nakazawa, Katsuro, 3,433,602.
Miyata, Etsutaro, 3,422,242.
Sasao, Saburo, 3,482,168.
Washizuka, Isamu; and Hanahara, Hitoshi, 3,483,400.

Hayakawa, Masashi; Kadotani, Makoto; and Ishikawa, Kunio, to Central Glass Co., Ltd. Process for preparing highly pure calcium hydrogen phosphate dihydrate. 3,427,125, 2-11-69, Cl. 23-109.
Hayakawa, Mitsuru: *See*—
Shindo, Noboru; Ura, Yasukazu; Mori, Miyako; Hayakawa, Mitsuru; and Ueda, Kunihiro,3,443,011.
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako,3,472,932.
Hayakawa, Shigeru; Ouchi, Hiromu; and Nagase, Kaneomi, to Matsushita Electric Industrial Co., Ltd. Piezoelectric composition and method of preparing the same. 3,449,253, 6-10-69, Cl. 252-62.9
Hayakawa, Yoshihide; Sakai, Takeo; and Nishio, Daijiro, to Fuji Shashin Film Kabushiki Kaisha. Process for the production of photographic gelatino silver halide emulsions. 3,482,980, 12-9-69, Cl. 96-94.
Hayakawa, Yoshihide: *See*—
Nishio, Fumihiko; Nishio, Daijiro; Watarai, Syo; Hayakawa, Yoshihide; Kato, Kirotetu; and Udea, Hirozo,3,445,231.
Hayama, Akio. Oil tanker. 3,477,401, 11-11-69, Cl. 114-74.
Hayama, Fumitada: *See*—
Kumada, Akio; and Hayama, Fumitada,3,465,105.
Hayami, Toshio: *See*—
Nishikawa, Yoshimasa; and Hayami, Toshio,3,472,735.
Hayanami, Hiroshi: *See*—
Fukushima, Osamu; Hayanami, Hiroshi; and Nagoshi, Kazuo,3,424,604.
Hayany, Adnan T., to Western Electric Company, Incorporated. Dielectric variable attenuator. 3,425,005, 1-28-69, Cl. 333-81.
Hayany, Adnan T., to Western Electric Company, Incorporated. Coupling of dielectric to metallic waveguides. 3,452,302, 6-24-69, Cl. 333-21.
Hayao, Shin: *See*—
Fancher, Otis Earl; and Hayao, Shin,3,455,935.
Hayao, Shin, to Miles Laboratories, Inc. Tetrazolyl alkanoic acids. 3,453,285, 7-1-69, Cl. 260-308.
Hayasaka, Koro; Sato, Fukuji; Hattori, Tosio; and Sato, Takeshi, to Kabushiki Kaisha Aiden. Explosion-proof fluorescent lamp apparatus. 3,426,234, 2-4-69, Cl. 313-312.
Hayase, Masashi: *See*—
Ciszewski, Joseph F.; Hayase, Masashi; and Robinson, Norman F.,3,428,769.
Hayase, Yoshimi: *See*—
Ochi, Hiroshi; Taki, Hiroshige; Sugimoto, Kimio; Hayase, Yoshimi; and Nakazawa, Bungo,3,420,733.
Hayase, Yoshio, to Fuji Denki Kagaku Kabushiki Kaisha. Layer-built alkaline cell. 3,442,709, 5-6-69, Cl. 136-6.
Hayashi, Chikara. Gas-tight seal. 3,475,034, 10-28-69, Cl. 277-70.
Hayashi, Chisayo; Chiba, Yusuke; Tanaka, Eiji; Ochi, Shigeyuki; Yanagisawa, Yuzuru; and Ayabe, Masaaki. Method of making solid state electrolytic capacitors. 3,469,294, 9-30-69, Cl. 29-25.42
Hayashi Denko Kabushiki-Kaisha: *See*—
Noro, Hiromitsu; and Kashikura, Hisae, 3,484,615.
Hayashi, Hiroaki: *See*—
Wakatsuki, Masao; Aoki, Toshio; and Hayashi, Hiroaki,3,442,615.
Hayashi, Ichitaro; and Nishiwaki, Yoshiro, to Victor Company of Japan, Limited. Tape guide drum for helical scan magnetic recording with stationary heads mounted in said drum. 3,428,760, 2-18-69, Cl. 179-100.2
Hayashi, Jun: *See*—
Nishio, Fumihiko; Sugiyama, Mitsunori; Yamamoto, Nobuo; and Hayashi, Jun,3,484,242.
Hayashi, Kanekichi; and Naito, Susumu, to Kabushiki Kaisha Rinnai Seisakusho. Burner. 3,434,791, 3-25-69, Cl. 431-328.
Hayashi, Kanekichi; and Naito, Susumu. Gas infrared burner. 3,463,139, 8-26-69, Cl. 126-39.
Hayashi, Kazutami, to Nippon Electric Company Limited. Composite metal wire with a base of iron or nickel and an outer coat of palladium. 3,443,914, 5-13-69, Cl. 29-183.5
Hayashi, Kazutami: *See*—
Tsuji, Shigeru; Hayashi, Kazutami; Kadowaki, Kouichi; and Sato, Katsuo,3,436,201.
Hayashi, Koichi: *See*—
Kaai, Jiro; Ninomiya, Tsunehiko; Okumura, Shinji; and Hayashi, Koichi,3,457,083.
Hayashi, Masahiro; and Goto, Shinkichi, to Yawata Iron & Steel Co., Ltd., and Hitachi, Ltd. Shearing machine. 3,460,423, 8-12-69, Cl. 83-390.
Hayashi, Nobuyuki: *See*—
Chikamasa, Hiroshi; Hayashi, Nobuyuki; and Noguchi, Michio,3,470,625.
Hayashi, Ryozo: *See*—
Tanabe, Katsumi; Hayashi, Ryozo; Morisawa, Yasuhiro; Hashimoto, Teruo; Nakazawa, Tadamasa; and Takasaki, Rinji,3,485,848.
Hayashi, Shigekazu; Kobayashi, Sadao; and Fujiwara, Shinobu, to TDK Electronics Company, Limited. Ceramic dielectric. 3,431,124, 3-4-69, Cl. 106-39.
Hayashi, Shigeki; Shinomiya, Hiroaki; and Kobayashi, Hideaki, to Tokyo Juki Kogyo Kabushiki Kaisha. Cyclic sewing machine. 3,482,535, 12-9-69, Cl. 112-67.
Hayashi, Shigeki; Sibuya, Tuyosi; Kobayashi, Hideaki; and Takarai, Yutaka, to Tokyo Juki Kogyo Kabushiki Kaisha. Apparatus for stopping a needle-bar at any predetermined level of a sewing machine. 3,482,538, 12-9-69, Cl. 112-219.
Hayashi, Shigeru: *See*—
Takai, Hideo; Hayashi, Shigeru; and Saito, Yoshihiro,3,473,747.
Hayashi, Shigeru, to Asahi Kasei Kogyo Kabushiki Kaisha. Apparatus for lacing yarn masses by string. 3,435,495, 4-1-69, Cl. 28-21.
Hayashi, Shingo: *See*—
Nozawa, Masayuki; Ito, Toshinori; Hayashi, Shingo; and Otsuka, Naotoshi,3,427,912.
Hayashi, Shinichi; and Yamamoto, Masao, to Shinichi Hayashi & Kabushiki Kaisha Suwa Seikosha. Method and electrolyte for thick, brillant plating of palladium. 3,458,409, 7-29-69, Cl. 204-43.
Hayashi, Shinichi: *See*—
Yamamura, Katsumi; and Hayashi, Shinichi,3,475,290.
Hayashi, Shintaro, to Toyoda Automatic Loom Works, Ltd. Magnetic clutch for a car cooler compressor. 3,425,529, 2-4-69, Cl. 192-84.
Hayashi, Takashi; Kondo, Mitsutora; and Tanaka, Michio, to Kaken Kagaku Kabushiki Kaisha. Process for preparing 1-amino-3-carboxy- propane-2-sulfonic acid. 3,420,876, 1-7-69, Cl. 260-513.
Hayashi, Teruo; Sato, Katsuo; and Kobayashi, Hiroyuki, to Nippon Electric Company Limited. Resistor element and method for manufacturing the same. 3,472,688, 10-14-69, Cl. 117-212.
Hayashi, Torahiko. Cake and bread material making device. 3,442,226, 5-6-69, Cl. 107-1.
Hayashi, Toshio: *See*—
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi,3,457,226.
Miyake, Yasuhiko; Adachi, Saburo; Yamauchi, Norifumi; Hayashi, Toshio; and Akimoto, Masamichi,3,426,041.
Hayashi, Yoichi: *See*—
Ueshima, Kumao; Hiratsuka, Yoshio; Kuga, Toshiki; Yoshinaga, Hirokazu; and Hayashi, Yoichi,3,459,418.
Hayashi, Yoshiki; and Oido, Hikofumi, to Matsushita Electric Industrial Co., Ltd. Flexible transparent electrophotographic film and method of development of said film. 3,438,773, 4-15-69, Cl. 96-1.5
Hayata, Masaaki: *See*—
Kosaka, Yujiro; Hayata, Masaaki; and Hisatomi, Yoshihiro,3,448,057.
Haycock, Ernest W.: *See*—
Smith, George; May, Clayton A.; Seid, Donald M.; and Haycock, Ernest W.,3,455,805.
Hayden, Edward F.: *See*—
Erb, George H.; Horenburger, William E.; Sanguinetti, Bradley E.; and Hayden, Edward F.,3,441,189.
Hayden, Fred M.; and Lewinski, Robert W., to Packard-Bell Electronics Corporation. Light-activated degaussing circuit. 3,450,933, 6-17-69, Cl. 315-8.
Hayden, Gordon Francis: *See*—
Hanzi, Carl Wesley; and Hayden, Gordon Francis,3,438,285.
Hayden, Leland E.: *See*—
Mann, William C.; and Hayden, Leland E.,3,443,116.
Hayden, Percy: *See*—
Clark, Duncan; and Hayden, Percy,3,420,880.
Hayden, Percy, to Imperial Chemical Industries Limited. Production of lactones and keto acids. 3,458,532, 7-29-69, Cl. 260-343.6
Hayden, Percy; and Charlton, John, to Imperial Chemical Industries Limited. Process for the decomposition of formic acid in mixtures of acetic acid and formic acid. 3,459,707, 8-5-69, Cl. 260-541.
Hayden, Rodney, to United-Carr Incorporated. Unitary armature relay having constant actuating time and method. 3,436,701, 4-1-69, Cl. 335-203.
Hayden, Rodney, to United-Carr Incorporated, mesne. Flashing device. 3,444,515, 5-13-69, Cl. 340-74.
Hayden, Rodney, to United-Carr Incorporated, mesne. Lamp flashing system for vehicles. 3,480,944, 11-25-69, Cl. 340-331.
Hayden, Rodney; and Guarasci, Mario, to United-Carr Incorporated. Sequential flasher system. 3,470,531, 9-30-69, Cl. 340-82.
Hayden, Stanley P.: *See*—
Woodworth, William J.; and Hayden, Stanley P.,3,436,063.
Hayden, William Fred: *See*—
Hancock, Jack Arnet; and Hayden, William Fred,3,466,716.
Haydock, Stephen J.: *See*—
Johns, Marvin D.; and Haydock, Stephen J.,3,460,506.
Haydon, Arthur W.: *See*—
Geremia, Leo Francis; and Haydon, Arthur W.,3,427,420.
Haydon, Arthur W.; Herbert, Edward, III.; and Riggs, William D., to Tri-Tech Inc. Synchronous motor. 3,469,132, 9-23-69, Cl. 310-163.
Haydon, Arthur W.; and Ives, Milton N., to Tri-Tech, Inc., mesne. Cam operated switching apparatus. 3,427,574, 2-11-69, Cl. 335-73.

Haydu, Andrew G.; and Allan, Earl E., to Westinghouse Air Brake Company. Fluid pressure operated brake apparatus for rail- way car truck. 3,447,640, 6-3-69, Cl. 188-47.
Hayer, Dieter H. A.; and Grozinger, Lore, to Siegle, G., & Co. G.m.b.H. Halogen - containing polymers and polyolefins stabilized with uracils. 3,436,362, 4-1-69, Cl. 260-23.7
Hayer, John R.: *See—*
Angleton, Paul A.; and Hayer, John R.,3,487,238.
Hayes, Allan: *See—*
Beard, Jack H.; Hoole, Harold; and Hayes, Allan,3,438,996.
Hayes, Arthur W., to Blumberg, Georg. Method and apparatus for the production of handled shopping bags. 3,481,256, 12-2-69, Cl. 93-8.
Hayes, Billy H., to Calumet & Hecla Corporation, mesne. Flat coil carton. 3,439,863, 4-22-69, Cl. 229-23.
Hayes, Brice E., to Hayes Track Appliance Company. Railway appliance operating mechanism. 3,470,371, 9-30-69, Cl. 246-163.
Hayes, C. I., Inc.: *See—*
Westeren, Herbert W.; Kimball, William H.; and Scotto, Vincent, 3,431,346.
Westeren, Herbert W., 3,441,452.
Westeren, Herbert W.; and Kimball, William H., 3,467,366.
Hayes, Charles H.: *See—*
Crocker, Richard E.; Kaplan, Martin L.; and Hayes, Charles H.,3,442,954.
Hayes, Donald J. Resilient support for lift magnet suspension. 3,471,193, 10-7-69, Cl. 294-65.5
Hayes, Edward W. Shield tunneling apparatus. 3,427,813, 2-18-69, Cl. 61-85.
Hayes Engineers (Leeds) Limited: *See—*
Hayes, Hubert George, 3,481,247.
Hayes, Eugene, 50% to Hayes, Neil J. Method and apparatus for the manufacture of a food product. 3,467,029, 9-16-69, Cl. 107-1.
Hayes, Fay A.: *See—*
Myers, Robert R.; and Hayes, Fay A.,3,468,106.
Hayes, Harold B.: *See—*
Caltrider, Paul G.; and Hayes, Harold B.,3,433,711.
Hayes, Hubert George, to Hayes Engineers (Leeds) Limited. Tool height setting apparatus. 3,481,247, 12-2-69, Cl. 90-11.
Hayes, John C., to Universal Oil Products Company. Continuous low pressure reforming process with a prereduced and presulfided catalyst. 3,442,796, 5-6-69, Cl. 208-139.
Hayes, John C., to Universal Oil Products Company. Continuous low pressure catalytic reforming pro- cess with sulfur and halogen inclusion and water exclusion. 3,448,036, 6-3-69, Cl. 208-139.
Hayes, John C., to Universal Oil Products Company. Regeneration of coke-deactivated catalyst containing a platinum group component and a sulfur component. 3,481,861, 12-2-69, Cl. 208-140.
Hayes, John E., to Modine Manufacturing Company. Liquid coolant radiator with air separating means. 3,455,377, 7-15-69, Cl. 165-110.
Hayes, John W.: *See—*
Ehrlich, Arthur; Hayes, John W.; and Patton, Temple C.,3,483,150.
Hayes, Justa L.: *See—*
Bolton, Maston C.; and Hayes, Justa L.,3,453,657.
Hayes, Leonard L., to Potlatch Forests, Inc. Self-cleaning wood lathe chuck. 3,455,351, 7-15-69, Cl. 142-53.
Hayes, Leonard L., to Potlatch Forests, Inc. Chucks for veneer lathe loaders. 3,480,052, 11-25-69, Cl. 144-209.
Hayes, Lester P. Water dispersible methyloamide products. 3,471,466, 10-7-69, Cl. 260-21.
Hayes, Monson H., Jr.: *See—*
Lewis, Harold F.; and Hayes, Monson H., Jr.,3,478,198.
Hayes, Neil J.: *See—*
Hayes, Eugene, 3,467,029.
Hayes, Ralph S., Jr., to Ingersoll-Rand Company. Power wrench. 3,438,451, 4-15-69, Cl. 173-163.
Hayes, Raymond K.: *See—*
Scott, Morton W.; Hayes, Raymond K.; and Levine, Sol,3,437,095.
Hayes, Richard C.: *See—*
Duncan, Paul J.; and Hayes, Richard C.,3,436,950.
Hayes, Richard L.; Molloy, Peter E.; and Swanson, Richard M., to Bell Telephone Laboratories, Incorporated. Crossbar switching with special service provisions. 3,458,662, 7-29-69, Cl. 179-18.
Hayes, Robert A., to Firestone Tire & Rubber Company, The. Process for making a polyamide and product. 3,461,107, 8-12-69, Cl. 260-78.
Hayes, Robert A., to Union Special Machine Company. Parallel feeding mechanism for sewing machines. 3,472,188, 10-14-69, Cl. 112-215.
Hayes, Robert E., to Stress-Plus, Inc. Building panel structure. 3,471,984, 10-14-69, Cl. 52-309.
Hayes, Robert L.: *See—*
McKinstry, John R.; Monck, Myron C.; and Hayes, Robert L.,3,467,103.
Hayes, Ronald B. Impaling needle arrangement for a sausage slicing machine. 3,431,956, 3-11-69, Cl. 146-94.
Hayes, Roy M., to Tektronix, Inc. Bootstrapped cascode differential amplifier. 3,423,685, 1-21-69, Cl. 330-3.
Hayes, Thomas E., to Penn Controls, Inc. Heat motor utilizing expansible fluid for driving a piston. 3,475,904, 11-4-69, Cl. 60-23.
Hayes Track Appliance Company: *See—*
Hayes, Brice E., 3,470,371.
Hayes, Tyler K.: *See—*
Nelson, John R., Jr.; and Hayes, Tyler K.,3,461,838.
Hayes, William B., to El Paso Products Company. Production of adiponitrile. 3,454,619, 7-8-69, Cl. 260-465.2
Hayes, William E.; and Calhoon, Charles D., to Westinghouse Electric Corporation. Flowmeter frequency control system. 3,440,876, 4-29-69, Cl. 73-194.
Hayes, Woodrow L.: *See—*
Villers, Philippe; and Hayes, Woodrow L.,3,461,567.
Hayford, Donald Edward, to Allied Chemical Corporation. Foundry core compositions. 3,471,429, 10-7-69, Cl. 260-29.4
Haygood, James D.: *See—*
Dawbarn, Ronald; and Haygood, James D.,3,482,860.
Hayhurst, Michael John, to International Research & Development Company Limited. Surgical probes. 3,483,869, 12-16-69, Cl. 128-303.1
Hayman, Nigel Ward, to Imperial Chemical Industries Limited. Transfer of threadlines between spindles. 3,456,435, 7-22-69, Cl. 57-156.
Hayner, Maria R. Chin seat. 3,455,300, 7-15-69, Cl. 128-76.
Hayner, Paul F.; and Babikyan, Jirair A., to Sanders Associates, Inc. Spherical directional hydrophone with semi- spherical magnets. 3,464,057, 8-26-69, Cl. 340-8.
Hayner, Paul F.; and Eldridge, David G., to Sanders Associates, Inc. Hydraulic signal summing and control system. 3,479,925, 11-25-69, Cl. 91-367.
Hayner, Paul F.; and Sharpe, Lawrence W., to Sanders Associates, Inc. Hydraulic feedback system. 3,433,126, 3-18-69, Cl. 91-367.
Hayner, Paul F.; and Sharpe, Lawrence W. Hydraulic feedback system. 3,433,128, 3-18-69, Cl. 91-384.
Hayner, Paul F.; and Sharpe, Lawrence W., to Sanders Associates, Inc. Hydro-mechanical positioning system. 3,433,129, 3-18-69, Cl. 91-384.
Hayner, Paul F.; and Sharpe, Lawrence W., to Sanders Associates, Inc. Low noise reducing valve for steam systems. 3,447,566, 6-3-69, Cl. 137-589.5
Haynes, Don A., to FMC Corporation. Multi-purpose vehicle lift. 3,458,013, 7-29-69, Cl. 187-8.67
Haynes, Don A., to FMC Corporation. Wheel balancer probe assembly. 3,461,729, 8-19-69, Cl. 73-457.
Haynes, Freddie J. Stubble mushing and dirt removing apparatus. 3,425,368, 2-4-69, Cl. 111-6.
Haynes, Freddie J. Back hoe apparatus having movable teeth. 3,436,849, 4-8-69, Cl. 37-141.
Haynes, Freddie J., to Rockmaster Tools, Inc. Back hoe apparatus having movable teeth. 3,448,535, 6-10-69, Cl. 37-141.
Haynes, George R.; McBeth, Clyde W.; Pilgram, Kurt H. G.; and White, Lyle V., to Shell Oil Company. Phosphorodiamidothioates. 3,454,682, 7-8-69, Cl. 260-956.
Haynes, Harold E.; and Hudson, Kenneth C., to RCA Corporation. Magneto-optic display system. 3,448,211, 6-3-69, Cl. 178-7.3
Haynes, Harold L.; Rammel, Gerald E.; and Morrison, Albert R., to Owens-Corning Fiberglas Corporation. Coating using wax, surfactant, and film former. 3,461,090, 8-12-69, Cl. 260-17.4
Haynes, Harvey H., to United states of America, Navy. Underwater adjustable apparatus and method. 3,425,230, 2-4-69, Cl. 61-69.
Haynes, Howard, to American Sterilizer Company. Surgical light. 3,428,797, 2-18-69, Cl. 240-1.4
Haynes, James L. Lock key ejector. 3,422,647, 1-21-69, Cl. 70-388.
Haynes, John T.: *See—*
Hamilton, Milon J.; Baigas, Joseph F., Jr.; Haynes, John T.; and Coates, Herbert W.,3,459,631.
Haynes Manufacturing Company: *See—*
Updegraff, Alfred V.; and Beyer, Lawrence A., 3,463,536.
Haynes, Richard T.; Irani, Riyad R.; and Langguth, Robert P., to Monsanto Company. Electrodeposition of metals. 3,475,293, 10-28-69, Cl. 204-48.
Haynes, Stewart, Jr.; and Fontaine, Marc F., to Texaco Inc. Recovery of oils by steam injection. 3,476,183, 11-4-69, Cl. 166-272.
Haynie, Gerald D.; and Rosenfeld, Peter E., to Bell Telephone Laboratories, Incorporated. Signal amplitude measuring system. 3,428,829, 2-18-69, Cl. 307-235.
Haynie, Henry C. Pack-off assembly and method of running pipe. 3,443,638, 5-13-69, Cl. 166-277.
Haynie, Robert N.: *See—*
Rhoads, George D.; and Haynie, Robert N.,3,439,407.
Haynos, Joseph G., to United States of America, National Aeronautics and Space Administration. Interconnection of solar cells. 3,459,391, 8-5-69, Cl. 244-1.
Hayosh, Robert J.: *See—*
Bracey, Robert A.; Glossop, Donald L., Jr.; Hayosh, Robert J.; and Palazzolo, Joseph A.,3,473,842.
Hayot, Raymond: *See—*
Daudin, Jacques; and Hayot, Raymond,3,458,627.
Hays, Bruce C., to American Telephone and Telegraph Company. Service observing system. 3,420,968, 1-7-69, Cl. 179-175.2

Hays, Bruce C., to American Telephone and Telegraph Company. Method and arrangement for signaling in a remote control system. 3,456,240, 7-15-69, Cl. 340-163.
Hays Corporation, The: *See—*
Eller, Harold E.; and Dreckmann, Hubert, 3,471,776.
Hays, George E.; and Poska, Forrest L., to Phillips Petroleum Company. Separation of gaseous mixtures. 3,445,990, 5-27-69, Cl. 55-58.
Hays, Herbert G.: *See—*
De Lancey, Warren H.; Hays, Herbert G.; and Hartzell, Donald W.,3,469,791.
Hays, Hugh R.; and Kosolapoff, Gennady M., to Procter & Gamble Company, The. Organophosphorus compounds. 3,445,522, 5-20-69, Cl. 260-606.5
Hays, John D.; and Vance, Robert E., to National Cash Register Company, The. Tape perforator. 3,481,535, 12-2-69, Cl. 234-108.
Hays Manufacturing Company: *See—*
Haulik, Leo J.; Bradbury, James G.; Greer, Leonard S.; and Decker, Clarence W., 3,428,339.
Hoelsch, Edward S., 3,424,430.
Hays, Merlin B., to American Home Products Corporation. Attenuated infectious canine hepatitis live virus vaccine and method of producing same. 3,432,391, 3-11-69, Cl. 195-1.3
Hays, Richard Young, to Du Pont de Nemours, E. I., and Company. Spinneret cleaning apparatus. 3,436,789, 4-8-69, Cl. 15-345.
Hays, William A.: *See—*
Schaeffer, Marvin G.; and Hays, William A.,3,437,776.
Hayssen Manufacturing Company: *See—*
Gausman, Alfred P., 3,449,888.
James, Robert C., 3,458,036.
Hayter, Jack: *See—*
Payne, William Woolley; and Hayter, Jack,3,439,508.
Hayter, Roy G.: *See—*
Hassell, Howard L.; and Hayter, Roy G.,3,480,696.
Winkler, Deloss E.; Hayter, Roy G.; and Stubbs, William H.,3,455,891.
Hayward, Brian Phillip; Mc Ewan, Keith John Bruce; Foster, Robert Thomas; and Hoare, Martin John. Method of making and sealing an electric storage battery. 3,441,448, 4-29-69, Cl. 136-176.
Hayward, Garon C.: *See—*
Pelletier, Andre Joseph; and Hayward, Garon C.,3,468,698.
Haywood, John T.: *See—*
Gregory, Leroy C.; and Haywood, John T.,3,439,268.
Hazard, Robert E., to Polytop Corporation. Fixed spout closure with auxiliary cap. 3,454,196, 7-8-69, Cl. 222-83.
Hazard, Robert E., to Polytop Corporation. Dispensing closure. 3,477,618, 11-11-69, Cl. 222-534.
Hazard, Sherrill J., Jr.; and Fretz, Harold Robert, to Consolidated Papers, Inc. Suction cylinder mold partially wrapped by an endless, porous control member. 3,455,780, 7-15-69, Cl. 162-318.
Hazdra, James J.; Sonnleitner, David; and Wesolowski, Wyne E., to Continental Can Company, Inc. Increasing the strength of glass by overglazing. 3,434,817, 3-25-69, Cl. 65-60.
Hazel, Beverly S.; and Bakker, Lubertus, to Midland-Ross Corporation. Separator for immiscible liquids. 3,468,421, 9-23-69, Cl. 210-96.
Hazel, Herbert K., to International Business Machines Corporation. Pulse transformer fabrication. 3,452,431, 7-1-69, Cl. 29-605.
Hazel, Herbert K.; and Mueller, Wolfgang F., to International Business Machines Corporation. Method for wiring ferrite core matrices. 3,460,245, 8-12-69, Cl. 29-604.
Hazel, John Evan: *See—*
Orr, Robert J.; and Hazel, John Evan,3,454,541.
Hazelett, Richard: *See—*
Hazelett, Robert William; and Hazelett, Richard,3,429,363.
Hazelett, Robert William; and Hazelett, Richard,3,474,853.
Hazelett, Robert William; and Hazelett, Richard, to Hazelett Strip-Casting Corporation. Method of cooling the casting belt in a continuous metal casting machine of the drum and belt type. 3,429,363, 2-25-69, Cl. 164-87.
Hazelett, Robert William; and Hazelett, Richard, to Hazelett Strip-Casting Corporation. Apparatus for cooling and supporting the casting belt in a continuous metal casting machine of the drum and belt type. 3,474,853, 10-28-69, Cl. 164-278.
Hazelett Strip-Casting Corporation: *See—*
Hazelett, Robert William; and Hazelett, Richard, 3,429,363.
Hazelett, Robert William; and Hazelett, Richard, 3,474,853.
Hazell, Norman C.: *See—*
Bryant, Herbert W.; Hazell, Norman C.; and Mosing, Lionel W.,3,440,365.
Hazeltine Corporation: *See—*
Huebscher, Herbert, 3,474,460.
Hazeltine Research, Inc.: *See—*
Bailey, William F.; and Hellmann, Reinhard K., 3,423,673.
Cafarella, Thomas; and Vasile, Carmine F., 3,458,819.
Hannan, Peter W., 3,456,260.
Hannan, Peter W., 3,460,144.
La Rosa, Richard, 3,422,378.
Loughlin, Bernard D., 3,441,670.
Richman, Donald, 3,427,617.
Tschannen, Robert F., 3,436,592.
Hazelton, Harold J., to Carlson Tool & Machine Co. Workpiece positioning mechanism for brushmaking machine. 3,423,128, 1-21-69, Cl. 300-11.
Hazelton, Harold J., to Carlson Tool & Machine Co. Abrasive element for finishing paint brushes or the like. 3,451,173, 6-24-69, Cl. 51-110.
Hazelton, Harold J., to Carlson Tool & Machine Co. Brush blank feeding apparatus. 3,479,091, 11-18-69, Cl. 300-3.
Hazelton, Russell F., to Allied Chemical Corporation. Method for producing melamine. 3,470,163, 9-30-69, Cl. 260-249.7
Hazelwood, Roy E.: *See—*
Swafford, Kenneth L.; Duke, Doyal P.; and Hazelwood, Roy E.,3,433,464.
Hazen, James T.: *See—*
Keady, William L.; St. Clair, Michael J.; and Hazen, James T.,3,469,684.
Hazen, Ramon B., to Ohio Brass Company, The. Spark gaps. 3,443,149, 5-6-69, Cl. 315-36.
Hazen Research, Inc.: *See—*
Hazen, Wayne C.; Henrickson, Angus V.; and Hadzeriga, Pablo, 3,425,799.
Hazen, Wayne C.; Henrickson, Angus V.; and Hadzeriga, Pablo, to Hazen Research, Inc., mesne. Recovery of phosphate values from phosphatic slimes. 3,425,799, 2-4-69, Cl. 23-107.
Hazet-Werk Hermann Zerver: *See—*
Zerver, Alfred, 3,451,737.
Hazlehurst, Philip Geoffrey; Hollis, Sydney G.; and Phillips, Bryan F., to Austin Motor Company Limited, The. Devices for mixing liquids. 3,459,407, 8-5-69, Cl. 259-4.
Haznar,, Henry J., to Moore Drop Forging Company. Pawl reversing mechanism for ratchet wrenches. 3,467,231, 9-16-69, Cl. 192-43.1
Hazy, Andrew C.; and Karabinos, Joseph V., to Olin Mathieson Chemical Corporation. Process for preparing 6-alkoxy-methyl-2,4-dinitrophenols. 3,440,289, 4-22-69, Cl. 260-611.
Hazzard, Frank C., to United States of America, Army. Differential modulator. 3,479,616, 11-18-69, Cl. 332-43.
Hazzard, Harry I., to McCulloch Corporation. Centrifugal clutch. 3,429,411, 2-25-69, Cl. 192-105.
Hazzard, Harry I., to McCulloch Corporation. Centrifugal friction clutch. 3,477,555, 11-11-69, Cl. 192-105.
Hazzard, Harry I., to McCulloch Corporation. Fuel feeding apparatus. 3,483,988, 12-16-69, Cl. 210-232.
Hazzard, Henry D., to Sprague Electric Company. Rolled aluminum slug capacitor. 3,443,164, 5-6-69, Cl. 317-230.
HB Engineering Corporation: *See—*
Baker, Hugh M., Jr., 3,437,961.
Baker, Hugh M., Jr., 3,453,464.
HCA Food Corporation: *See—*
Wendt, Arthur S., 3,471,300.
Heaberlin, Paul L.: *See—*
Winter, Floyd E.; and Heaberlin, Paul L.,3,465,469.
Heacock, Roy C.; and Dyer, Wesley B., to Standard Steel Corporation. Fish meal rotary dryer. 3,481,049, 12-2-69, Cl. 34-109.
Heacox, Frank, to Bell-Toptex, Inc. Helmet shield fastener. 3,423,758, 1-28-69, Cl. 2-3.
Head, Billy D.: *See—*
Garcia, Bartolome; and Head, Billy D.,3,448,161.
Head, Dell A.: *See—*
McQuerry, Ersel R.; and Head, Dell A.,3,458,063.
Head, Earl L., to United States of America, Atomic Energy Commission. Preparation of the rare earth sesquicarbonate. 3,446,574, 5-27-69, Cl. 23-20.
Head, Frank Samuel Henry; and Lund, Gerald, to Cotton Silk and Man-Made Fibres Research Association, The. Hydroxybenzophenones containing beta- chloro- or sulphatoethylsulphonyl groups. 3,431,306, 3-4-69, Cl. 260-591.
Head, Willis A.: *See—*
Jackson, Walter L., Jr.; and Head, Willis A.,3,455,193.
Head, Wrightson & Company Limited: *See—*
Eveson, Geoffrey Frank; and Thompson, Alfred, 3,471,016.
Head, Wrightson and Company, Limited: *See—*
Lawson, Kenneth Thomas; and Ascough, Keith Judge, 3,426,730.
Headd, Franklin L.; and Wilson, Jack O., to Xerox Corporation. Pressure-transfer type reproduction machine. 3,427,966, 2-18-69, Cl. 101-132.
Headrick, Alvin F.: *See—*
Nazaruk, Stanley; Rosa, Carl; and Headrick, Alvin F.,3,427,683.
Headrick, Hugh M.: *See—*
Thomas, Francis H.; Headrick, Hugh M.; and Schulz, Edmund L.,3,422,046.
Headrick, Richard T. Hose reel. 3,422,838, 1-21-69, Cl. 137-355.12
Heald Machine Company, The: *See—*
Hahn, Robert S., 3,431,685.
Oslebo, Richard G.; Newton, Robert F.; and Jacobson, Alden H., 3,458,924.
Uhtenwoldt, Herbert R., 3,420,008.
Healey, Charles P. Alarm reporting system. 3,430,218, 2-25-69, Cl. 340-213.

Healey, Robert J.; and Kimmel, Donald S., to Bell Telephone Laboratories, Incorporated. Voltage and current regulator with variable reference voltage. 3,437,905, 4-8-69, Cl. 321-19.
Healy, Denis J.: *See—*
Gasser, Edward Bruce; and Healy, Denis J.,3,446,402.
Healy, James W.; Hidden, William P.; and Anderson, Donald C., to Hexcel Corporation, mesne. Sheet handling apparatus and method. 3,461,757, 8-19-69, Cl. 83-23.
Healy, James W.: *See—*
Wright, Malor; and Healy, James W.,3,436,330.
Healy, Lawrence William: *See—*
Buff, Fred; Gross, Joseph Idadore; and Healy, Lawrence William,3,477,898.
Heaney, Paul R., to Eastman Kodak Company. Thermal circuit breaker. 3,436,712, 4-1-69, Cl. 337-405.
Heap, Forrest J.; and Myers, Richard A., to McDonnell Douglas Corporation, mesne. Multiple axis milling apparatus. 3,442,175, 5-6-69, Cl. 90-15.
Heap, Kenneth Thomas Duncan: *See—*
Brooks, James; Heap, Kenneth Thomas Duncan; and Woodhead, Robert Harry,3,462,800.
Heap, Samuel A.: *See—*
Brilmyer, Harold G.; and Heap, Samuel A.,3,424,497.
Heaps, John F.: *See—*
Fantl, Joel; Hahn, Frank J.; Hardy, Edgar E.; and Heaps, John F.,3,434,989.
Heard, Jeffery Gerald; and Bennett, Roy Brian, to English Electric Company Limited, The. Dynamo electric machines. 3,476,961, 11-4-69, Cl. 310-54.
Heard, Maurice E.: *See—*
Cotton, James F.; and Heard, Maurice E.,3,420,696.
Heard, Roderick S.: *See—*
Blevins, Parker R.; Heard, Roderick S.; and Hornung, Louis M.,3,461,430.
Hearld, Albert B.: *See—*
Metzger, Courtney A.; Hearld, Albert B.; McMullen, Bobby G.; and Reynolds, Bobby J.,3,483,091.
Hearn, Cleveland, F. Transportation system. 3,486,645, 12-30-69, Cl. 214-38.
Hearn, Daniel P., to Sinclair Research, Inc. Optical resonance magnetometer with digital frequency measuring means. 3,467,856, 9-16-69, Cl. 324-0.5
Hearn, Daniel P.; and Stedman, David D., to Century Geophysical Corporation. Mobile gas leak detection. 3,444,721, 5-20-69, Cl. 73-23.
Hearn, Glenn R.; Rollins, James A.; and Schaller, Frank H., to Honeywell Inc. Data processing device and method. 3,474,232, 10-21-69, Cl. 235-61.11
Hearn, Hosea P., to Halliburton Company. Torque resistant coupling for well tool. 3,463,228, 8-26-69, Cl. 166-181.
Hearn, Robert T.; and Riordan, Robert M. Leak detecting system and method. 3,439,837, 4-22-69, Cl. 222-52.
Hearon, William M.: *See—*
Anderson, Nils T.; and Hearon, William M.,3,420,734.
Hearst, Thomas McChesney; and Yantz, Robert Charles, to Eastman Kodak Company. Powder coated with an anti-static agent. 3,449,142, 6-10-69, Cl. 106-210.
Heart-O-Gold Corporation: *See—*
Seidman, Jack, 3,455,575.
Heartness, Olaf A. Inertia actuated inflatable underwater spear. 3,452,466, 7-1-69, Cl. 43-6.
Heartstedt, Edmund; and Marshall, Neil, to Myers, F. E., & Bro. Co., The. Multi-way flow control valve. 3,460,566, 8-12-69, Cl. 137-571.
Heaslip, Donald B. . 3,483,385, 12-9-69, Cl.
Heaslip, Donald B.; and Tepolt, Florian E., to Bendix Corporation, The. Cycling timer. 3,461,351, 8-12-69, Cl. 317-142.
Heat and Control, Inc.: *See—*
Caridis, Andrew A.; and Benson, Clark K., 3,472,155.
Heath, Billy J.: *See—*
Waters, Kenneth H.; and Heath, Billy J.,3,440,599.
Heath, Clarence Willans, to United-Carr Incorporated. Holder for an electric lamp. 3,436,717, 4-1-69, Cl. 339-65.
Heath Company: *See—*
Mitchell, Robert W., 3,443,868.
Heath, Herbert E.; and Skaggs, Clyde W., to Bunker-Ramo Corporation, The. Method of making a thin film circuit having a resistor-conductor pattern. 3,423,260, 1-21-69, Cl. 156-3.
Heath, John Stewart, to Associated Electrical Industries Limited. Vacuum lock sample insertion probe for a mass spectrometer. 3,440,417, 4-22-69, Cl. 250-41.9
Heath, L. S., & Sons, Inc.: *See—*
Murphy, Robert, 3,464,609.
Heath, Paul D., to General Dynamics Corporation. Microwave stripline filter. 3,451,015, 6-17-69, Cl. 333-73.
Heath, Roger K. Bending apparatus. 3,440,852, 4-29-69, Cl. 72-207.
Heath Tecna Corporation: *See—*
Hambleton, Brian, 3,452,958.
Heath, Walter S.; and Megargel, Leland R., to Sylvania Electric Products Inc. TEM mode faraday rotator. 3,434,077, 3-18-69, Cl. 333-24.1
Heath-Brown, Basil: *See—*
Cohen, Aaron; and Heath-Brown, Basil,3,457,271.
Heathcote, Thomas J.; and Stark, Michael, to Westinghouse Electric Corporation. Canned motor pump. 3,450,056, 6-17-69, Cl. 103-87.
Heathcote, Vincent Albert, to M-O Valve Company, The. Magnetron anode having temperature compensating members within the cavities of a different coefficient of thermal expansion from the cavities. 3,428,859, 2-18-69, Cl. 315-39.51
Heatlock Industrial Furnaces Limited: *See—*
Young, Stuart Gerald, 3,440,322.
Heatlock Limited: *See—*
Faulkner, Kenneth Francis; and Plume, Alan Walter, 3,431,345.
Heaton, Richard A., to Owens-Illinois, Inc. Composite containers. 3,482,724, 12-9-69, Cl. 215-10.
Heatwaite, Hewart H.; Mead, Robert H.; and Paul, William T., to Borg-Warner Corporation, mesne. Composite drive wheel. 3,469,466, 9-30-69, Cl. 74-243.
Heavilon, Jerry L.; Jones, Dennis A.; and Thomas, Barton A., to Dayton Fly Ash Co., Inc. Method for mine fire control. 3,421,587, 1-14-69, Cl. 169-2.
Hebblethwaite, Thomas V., to Scionics Corporation, The. Card-preparing machine. 3,475,253, 10-28-69, Cl. 156-355.
Hebborn, Heinrich; and Anweiler, Walter. Fountain pen. 3,442,597, 5-6-69, Cl. 401-259.
Hebel Gasbetonwerk G.m.b.H.: *See—*
Vogele, Josef, 3,480,705.
Hebeler, Harold H., to Du Pont de Nemours, E. I., and Company. Process for producing polyamide staple fibers. 3,459,845, 8-5-69, Cl. 264-168.
Heberlein & Co. AG: *See—*
Dosch, Peter; and Galia, Karl, 3,441,738.
Dosch, Peter, 3,444,382.
Dosch, Peter; Benz, Emil; and Bruhin, Paul, 3,467,149.
Dosch, Peter; and Heck, Reinhard H., 3,477,021.
Dubach, Paul, 3,477,287.
Egger, Linus, 3,435,394.
Leimbacher, Erwin, 3,454,347.
Heberlein, Georg, to Heberlein Patent Corporation. Process for making combination yarn and product. 3,420,049, 1-7-69, Cl. 57-140.
Heberlein Patent Corporation: *See—*
Heberlein, Georg, 3,420,049.
Lorenz, Fritz; and Weiss, Ernst, 3,476,501.
Raschle, Josef, 3,461,519.
Raschle, Josef, 3,475,895.
Hebert, Gordon M.: *See—*
Thoma, Roy E., Jr.; and Hebert, Gordon M.,3,448,054.
Hebert, John M. Coin examining and storage kit. 3,429,425, 2-25-69, Cl. 206-0.81
Hebert, John R.; La Costa, Nicholas J.; and Schnepfe, Robert W., Jr., to AAI Corporation. Powder dispenser. 3,437,245, 4-8-69, Cl. 222-389.
Hebert, John R.; and Waite, Warren A., to Avco Corporation. Disintegrating sabot. 3,430,572, 3-4-69, Cl. 102-93.
Hebert, Maurice E., to Nanuk Inc., mesne. Amphibious snow vehicle. 3,474,751, 10-28-69, Cl. 115-1.
Hebert, Norman T., to Dow Chemical Company, The. Free-flowing molding powder. 3,455,870, 7-15-69, Cl. 260-40.
Hebert, Rene. Automatic starting device for internal combustion engines. 3,443,557, 5-13-69, Cl. 123-179.
Hebling, Friedrich: *See—*
Knecht, Ludwig; and Hebling, Friedrich,3,457,743.
Hebner, David M. Sludge-eliminating, air-venting, flow-control device. 3,435,845, 4-1-69, Cl. 137-563.
Hebnes, Allan M. Spare tire carrier for automotive vehicles. 3,485,399, 12-23-69, Cl. 214-454.
Hebrank, William H.: *See—*
Wyatt, William Kirk; Mueller, Edward G.; and Hebrank, William H.,3,478,399.
Hebron, Roderick: *See—*
Lange, Robert B.; Hebron, Roderick; and Jacobs, David,3,436,090.
Hechelhammer, Wilhelm; and Streib, Hugo, to Farbenfabriken Bayer Aktiengesellschaft. Polycarbonate resins containing glass fibers sized with polycarbonates. 3,437,632, 4-8-69, Cl. 260-37.
Hechenbleikner, Ingenuin: *See—*
Molt, Kenneth R.; and Hechenbleikner, Ingenuin,3,422,197.
Hechenbleikner, Ingenuin; and Lanpher, Edward J., to Carlisle Chemical Works, Inc. Process for preparing tertiary phosphines in the presence of ether solvents. 3,470,254, 9-30-69, Cl. 260-606.5
Hechenbleikner, Ingenuin; and Thompson, Paul F., to Carlisle Chemical Works, Inc. Carboxymercaptal hydrocarbon tin salts with antifouling marine paint or coating biocidal activity. 3,463,644, 8-26-69, Cl. 106-15.
Hechenleitner & Cie: *See—*
Hechenleitner, Hans, 3,453,798.
Hechenleitner, Hans, 3,453,805.

Hechenleitner, Hans, 3,464,181.
Hechenleitner, Hans, 3,478,485.
Hechenleitner, Hans, 3,486,296.
Hechenleitner, Hans, to Hechenleitner & Cie. Process of making containers for liquids. 3,453,798, 7-8-69, Cl. 53-22.
Hechenleitner, Hans, to Hechenleitner & Cie. Apparatus for advancing filled containers of coated paper, plastic material, and the like. 3,453,805, 7-8-69, Cl. 53-387.
Hechenleitner, Hans, to Hechenleitner & Cie. Apparatus for making and filling rectangular containers. 3,464,181, 9-2-69, Cl. 53-180.
Hechenleitner, Hans, to Hechenleitner & Cie. Process and welding device for making containers filled with fluid. 3,478,485, 11-18-69, Cl. 53-28.
Hechenleitner, Hans, to Hechenleitner & Cie. Apparatus for automatically loading rows of rectangular or square bags or containers into a collecting receiver, outer cardboard box, or the like. 3,486,296, 12-30-69, Cl. 53-160.
Hechler, Valentine. Hermetically sealed container. 3,431,941, 3-11-69, Cl. 137-604.
Hecht, Alfred H.: *See*—
Olliff, Martin T., Jr.; Hecht, Alfred H.; Brown, Robert H.; and Brooks, William B.,3,421,965.
Hecht, Georg; and Sacher, Karl, to Felten & Guilleaume Fernmeldeanlagen G.m.b.H. Circuit arrangement and method for stabilising the current distribution in parallel-connected electronic regulatros. 3,466,455, 9-9-69, Cl. 307-53.
Hecht, James Lee; and Hughes, Charles T., to Du Pont de Nemours, E. I., and Company. Process for polymerizing vinyl fluoride. 3,464,963, 9-2-69, Cl. 260-92.1
Hecht, Richard, to National Research Corporation. Apparatus for absolute pressure measurement. 3,446,075, 5-27-69, Cl. 73-398.
Hecht, William. Damped electro-acoustic high frequency transducer. 3,482,062, 12-2-69, Cl. 179-115.5
Hechtel, Johann R., to Varian Associates. Electrostatically focused klystron having cavities with common wall structures and reentrant focusing lens housings. 3,436,588, 4-1-69, Cl. 315-5.39
Hechtle, Emil, to Radiant Pen Corporation. Separate plastic pen cap and clip. 3,453,694, 7-8-69, Cl. 24-11.
Hechtman, John F.; and Bornslaeger, Stephan R., to Kimberly-Clark Corporation. Pressure sensitive tape having improved backing. 3,464,848, 9-2-69, Cl. 117-122.
Hechtman, John Franklin: *See*—
Grupe, Edward Howard; and Hechtman, John Franklin,3,428,517.
Heck, Edward E., to Republic Molding Corporation. Waste receptacle with dispenser for disposable liners. 3,451,453, 6-24-69, Cl. 150-0.5
Heck, Friedrich, to Duria-Werk Karl Kempf GmbH. Process for manufacturing parts provided with a sintered surface layer. 3,431,105, 3-4-69, Cl. 75-208.
Heck, Howard F. Method for dressing fish. 3,453,684, 7-8-69, Cl. 17-60.
Heck, Karl-Heinz: *See*—
Schulze, Guenther; and Heck, Karl-Heinz,3,477,828.
Heck, Reinhard H.: *See*—
Dosch, Peter; and Heck, Reinhard H.,3,477,021.
Heck, Robert L.; and Hutton, Gerald E., to American Telephone and Telegraph Company. Multi-line holding circuit for subscribers' stations. 3,427,407, 2-11-69, Cl. 179-99.
Heck, William C.; and Fragnito, Daniel A., to Carrier Corporation. Air conditioning terminal. 3,465,814, 9-9-69, Cl. 165-2.
Heckart, Robert D., to Phillips Petroleum Company. Flashing viscous polymer solutions. 3,470,070, 9-30-69, Cl. 203-88.
Heckathorn, Loyd E.; and Cordes, Hugh B., to Towner Manufacturing Company. Automatic alignment apparatus for disc tillers. 3,486,565, 12-30-69, Cl. 172-572.
Heckel, Verne K.: *See*—
McGoff, Miles J.; and Heckel, Verne K.,3,436,191.
Heckelsberg, Louis F., to Phillips Petroleum Company. Olefin disproportionation with thoria containing catalysts. 3,444,262, 5-13-69, Cl. 260-683.
Heckelsberg, Louis F., to Phillips Petroleum Company. Conversion of propylene to 5-decene. 3,485,891, 12-23-69, Cl. 260-683.
Heckelsberg, Louis F.; and Banks, Robert L., to Phillips Petroleum Company. Combined dehydrogenation and disproportionation. 3,445,541, 5-20-69, Cl. 260-683.
Hecker, Arthur C.; and Abramoff, Charles, to Argus Chemical Corporation. Resistance of acrylonitrile butadiene styrene polymers to discoloration. 3,472,813, 10-14-69, Cl. 260-45.75
Hecker, Arthur C.; and Thee, Alfred, to Argus Chemical Corporation. Fatty acid-polyvalent metal salt stabilizers for polyvinyl chloride resins with reduced tendency to form bloom. 3,479,309, 11-18-69, Cl. 260-23.
Hecker, Arthur C.: *See*—
Kauder, Otto S.; Leistner, William E.; and Hecker, Arthur C.,3,476,699.
Pollock, Mark W.; and Hecker, Arthur C.,3,429,841.
Hecker, August: *See*—
Frey, Christoph; Hecker, August; Mueller, Rudolf; and Surber, Werner,3,472,844.
Hecker, Heinz, to Trutzschler & Co., Firma. Floccule feeding duct having an air bleed orifice. 3,482,883, 12-9-69, Cl. 302-62.
Hecker, Klaus J.: *See*—
Hueber, Werner G.; and Hecker, Klaus J.,3,435,140.
Hecker, Klaus J., to United States of America, Navy. Device for measuring and equalizing the gain characteristics of channel image intensifier arrays. 3,437,780, 4-8-69, Cl. 219-68.
Hecker, Klaus J., to United States of America, Navy. Position measurement equipment for television images. 3,449,511, 6-10-69, Cl. 178-6.8
Hecker, Klaus J., to United States of America, Navy. Color image dissector. 3,472,948, 10-14-69, Cl. 178-5.4
Hecker, Robert W., Jr.: *See*—
Beckwith, Robert C.; and Hecker, Robert W., Jr.,3,426,377.
Beckwith, Robert C.; and Hecker, Robert W., Jr.,3,460,175.
Hecker,Robert W.,Jr.; and Beckwith,Robert C., to Loomis Machine Company. Docboard. 3,486,181, 12-30-69, Cl. 14-71.
Hecker, Rudolf: *See*—
Schulten, Rudolf; Bohn, Thomas; Hecker, Rudolf; and Baurmann, Karl-Wilhelm,3,453,090.
Heckethorn, John E., to Heckethorn Manufacturing Co. Method of making woven metallic web structures. 3,420,278, 1-7-69, Cl. 140-24.
Heckethorn Manufacturing Co.: *See*—
Heckethorn, John E., 3,420,278.
Heckl, Egon: *See*—
Marker, Hannes; and Heckl, Egon,3,458,211.
Heckl, Egon. Heel-releasing device for safety ski bindings. 3,442,525, 5-6-69, Cl. 280-11.35
Heckl, Egon, to Marker, Hannes. Heel-holding device for safety ski bindings. 3,445,124, 5-20-69, Cl. 280-11.35
Hecklau, Frederick L.; and Allegrini, Aldo P., to Engelhard Minerals & Chemicals Corporation, mesne. Attapulgite clay paper filler and method of forming newsprint therewith. 3,433,704, 3-18-69, Cl. 162-181.
Heckler & Koch G.m.b.H.: *See*—
Horn, Kurt, 3,427,925.
Ketterer, Wilhelm, 3,446,114.
Heckler, Clarence H.; and Baer, James A., to Stanford Research Institute. Multipulse current driver comprised of a plurality of stages, each of which has a high Q at resonance. 3,435,431, 3-25-69, Cl. 340-174.
Heckler, Clarence H.; and Baer, James A., to Stanford Research Institute. Magnetic comparing circuit. 3,466,458, 9-9-69, Cl. 307-88.
Heckmaier, Joseph: *See*—
Fritzweiler, Rupprecht; Heckmaier, Joseph; Gerstner, Ferdinand; Wimmer, Hans; and Winkler, Heinz,3,471,131.
Kunstle, Gerhard; Heckmaier, Joseph; Knorr, Fritz; and Siegl, Herbert,3,474,138.
Heckman, Paul J., Jr., to United States of America, Navy. Television monitoring system for penetrating a light backscattering medium. 3,467,773, 9-16-69, Cl. 178-7.2
Heckmann, Wolfgang Gertrud Joseph, to Bird Machine Company. Continuously operating solid-bowl centrifuge. 3,423,016, 1-21-69, Cl. 233-7.
Heckrotte, Robert S., to Du Pont de Nemours, E. I., and Company. Spinneret assembly. 3,466,703, 9-16-69, Cl. 18-8.
Heckrotte, Robert S.; Kiscaden, Donald C.; and Wyeth, Nathaniel C., to Du Pont de Nemours, E. I., and Company. Spinneret assembly. 3,460,199, 8-12-69, Cl. 18-8.
Heckrotte, Robert S.; Lewis, Edward F.; and Sinson, Elwood A., du Pont de Nemours, E. I., and Company. Molding apparatus. 3,428,289, 2-18-69, Cl. 249-105.
Heckscher, Helmut, to Technical Operations, Incorporated. Modulated image photography. 3,478,661, 11-18-69, Cl. 95-12.20
Hecon Corporation: *See*—
Faude, Rudolf; Haller, Willi; and Hengstler, Heinz, 3,436,530.
Haller, Willi; and Faude, Rudolf, 3,441,719.
Hecox, Le Roy D. Locking wheel cover. 3,436,940, 4-8-69, Cl. 70-232.
Hector, Nils Folke, to U.S. Philips Corporation, mesne. Device for determining the structure of thin, partly transparent materials as textile and paper materials or the like. 3,469,104, 9-23-69, Cl. 250-219.
Hectors, Adrianus Marie Petrus; Huibers, Bernardus Hubertus; and Knoester, Carel Jacobus, to Chemische Fabriek L. van der Grinten N.V. Diazonium compounds and diazotype material. 3,442,652, 5-6-69, Cl. 96-91.
Hectronic AG: *See*—
Perren, Benno, 3,428,074.
Perren, Benno, 3,469,702.
Perren, Benno, 3,485,262.
Hedaya, Eddie; Theodoropulos, Spyros; and Hinman, Richard L., to Union Carbide Corporation. Novel N,N'-biisoimides and polymeric derivatives thereof. 3,472,817, 10-14-69, Cl. 260-78.
Hedaya, Mau. ce: *See*—
Bailey, Irwin, 3,464,545.
Hedberg, Carl Raymond, to AMP Incorporated. Electrical clamp. 3,459,397, 8-5-69, Cl. 248-63.

Hedberg, David G., Jr.: *See*—
Caldwell, John R.; and Hedberg, David G., Jr.,3,431,322.
Hedberg, Oscar Emanuel; Soderberg, Leif Erik Roland; and Westberg, Johan Eric Hayden, to AGA Aktiebolag. Method and heat treating machine for material in strip form. 3,444,289, 5-13-69, Cl. 264-347.
Hedborg, Lennart, to Aktiebolaget Siefvert & Fornander. Transport and piling device. 3,430,785, 3-4-69, Cl. 214-6.
Hedborg, Lennart, to Aktiebolaget Siefvert & Fornander. Substantially automatic and continuously operating machinery for the manufacture of match splints and the like. 3,431,954, 3-11-69, Cl. 144-2.
Hedenberg, Conny I. R.: *See*—
Ihreborn, Carl A. G.; and Hedenberg, Conny I. R.,3,429,011.
Hederich, Volker; and Gehrke, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. 1-Amino-2-aryloxy-4-arylsulfonamido-anthraquinones. 3,467,681, 9-16-69, Cl. 260-373.
Hedge, John A., to Bendix Corporation, The. Circuit for delivering constant energy impulses to a load. 3,486,071, 12-23-69, Cl. 315-241.
Hedge, John A.; Hall, Lewis W., Jr.; and Shore, Charles, to Sun Oil Company. Asphaltic laminating composition. 3,459,695, 8-5-69, Cl. 260-28.5
Hedge, John F.: *See*—
Adams, Cecil E.; and Hedge, John F.,3,421,413.
Hedger, Denyer Edward; and Ayling, Anthony John, to Vero Electronics Limited. Frames for accommodating circuit cards or module frames. 3,458,767, 7-29-69, Cl. 317-101.
Hedger, Earl G.; Huckell, Gary R.; and Leonard, Daniel R., to United States of America, Navy. Automatic gain control circuit for facsimile recorder. 3,437,750, 4-8-69, Cl. 178-7.3
Hedges, Henry M. Solar thermal blanket. 3,453,666, 7-8-69, Cl. 4-172.
Hedges, Robert B.: *See*—
Triggs, Leonard E.; and Hedges, Robert B.,3,435,805.
Hedgewick, Peter, to Reflex Corporation of America. Headlamp reflector for automobiles. 3,422,260, 1-14-69, Cl. 240-41.55
Hedgewick, Peter, to Reflex Corporation of Canada Limited. Mold apparatus for making safety caps. 3,482,814, 12-9-69, Cl. 249-67.
Hedgewick, Peter; and Howell, George E., to Reflex Corporation of Canada Limited. Safety cap and container. 3,478,911, 11-18-69, Cl. 215-9.
Hedgewick, Peter; and Howell, George E., to Reflex Corporation of Canada Limited. Safety cap and container. 3,485,403, 12-23-69, Cl. 245-9.
Hedglin, Marjorie E. Dough applicator for bun molds. 3,474,742, 10-28-69, Cl. 107-1.
Hediger, Edwin A., to Eastman Kodak Company. Conveyor. 3,433,350, 3-18-69, Cl. 198-177.
Hedin, Robert S., to Programmed & Remote Systems Corporation. Color select valve for spray guns. 3,443,578, 5-13-69, Cl. 137-240.
Hedler, Robert A.; Larson, John Frederick; and Regenbrecht, Albert, Jr., to Sylvania Electric Products, Inc. Phosphor reclamation. 3,474,040, 10-21-69, Cl. 252-301.4
Hedler, Robert A.; and Ryan, Winslow E., to Sylvania Electric Products, Inc. Method for separating phosphors. 3,447,682, 6-3-69, Cl. 209-167.
Hedlund, Richard K., to Honeywell, Inc. Vibration damping nozzle and flapper. 3,426,970, 2-11-69, Cl. 236-87.
Hedman Company, The: *See*—
Johnson, Clarence W., 3,467,006.
Hedman, Edward A.; and Hubbard, Bruce W., Jr., to Richardson Company, The. Alfin catalyst copolymerization of butene-2 with butadiene and isoprene. 3,422,080, 1-14-69, Cl. 260-85.3
Hedquist, Olaf A. Apparatus for securing pigtails to foil wrapped condensers or the like. 3,433,920, 3-18-69, Cl. 219-79.
Hedrick, Ross M.: *See*—
Junker, Bernhard T.; and Hedrick, Ross M.,3,422,178.
Tierney, Paul A.; and Hedrick, Ross M.,3,451,963.
Hedstrom, Albert V., to Almac Cryogenics, Inc. Mechanical dispensing means for cryogenic liquids. 3,433,248, 3-18-69, Cl. 137-386.
Hedstrom, Hans: *See*—
Krabbe, Ulrik; and Hedstrom, Hans,3,430,122.
Hedstrom Union Company: *See*—
Pierson, Raymond G., Jr., 3,427,071.
Hedstrom, Warren W.: *See*—
Schmidt, James H.; and Hedstrom, Warren W.,3,452,810.
Schmidt, James H.; and Hedstrom, Warren W.,3,469,414.
Hedvall, Per Olof Gunnar: *See*—
Agdur, Nils Bertil; and Hedvall, Per Olof Gunnar,3,478,187.
Hedwin Corporation: *See*—
Hoeffelman, Johan, 3,424,343.
Speas, Charles A.; and Jordan, Charles T., 3,433,867.
Heeb, Bruce E., to General Motors Corporation. Combined magnetic suspension and power transfer system. 3,455,612, 7-15-69, Cl. 308-10.
Heehler, Arthur C.; and Taylor, George, to Mercor Corporation. Moveable light fixture mounted on flat coil springs. 3,423,726, 1-21-69, Cl. 340-50.
Heeks, John Stuart: *See*—
Craven, George Frederick; Heeks, John Stuart; and Woode, Alan David,3,422,364.
Heenan, Neil I.: *See*—
Brown, William C.; George, Roscoe H.; Heenan, Neil I.; and Wonson, Roger C.,3,434,678.
Heenan, Sidney A., to Amerace Esna Corporation, mesne. Pavement markers with selectively replaceable reflectors. 3,485,148, 12-23-69, Cl. 94-1.5
Heer, Roland: *See*—
Weber, Herbert; Lange, Gunter; Muller, Hubert; Von Fellner, Michael; and Heer, Roland,3,435,376.
Heeren, Hermann; Kratzer, Hans; and Dege, Bernhard, to Maschinenfabrik Augsburg-Nurnberg A.G. Method for cleaning surface condenser and heat exchanger tubes. 3,473,961, 10-21-69, Cl. 134-8.
Heeringa, Albert. Method for the stepwise displacement of a heavy body over or through the ground. 3,438,208, 4-15-69, Cl. 61-42.
Heermann, Richard: *See*—
Rauh, Albrecht; and Heermann, Richard,3,448,829.
Heermans, Charles J., to General Time Corporation. Timing system having electromechanical oscillator with fail safe improvement. 3,441,820, 4-29-69, Cl. 318-127.
Hees, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the continuous dyeing of articles made from polyacrylonitrile fibers with cationic dyestuffs. 3,460,171, 8-12-69, Cl. 8-169.
Heesen, Leonardus Bernardinus, Jr.: *See*—
Heesen, Leonardus Bernardinus; Heesen, Theodorus Jacobus; and Heesen, Leonardus Bernardinus, Jr.,3,482,986.
Heesen, Leonardus Bernardinus; Heesen, Theodorus Jacobus; and Heesen, Leonardus Bernardinus, Jr., to Machinefabriek Heesen N.V. Preparing composite forage in pellet form. 3,482,986, 12-9-69, Cl. 99-2.
Heesen, Theodorus Jacobus: *See*—
Heesen, Leonardus Bernardinus; Heesen, Theodorus Jacobus; and Heesen, Leonardus Bernardinus, Jr.,3,482,986.
Heesh, David W., to Philco-Ford Corporation. Variable transfer function circuit. 3,482,113, 12-2-69, Cl. 307-229.
Heesters, Adrianus L.: *See*—
Heesters, Johannes L.; Heesters, Laurentius C.; Heesters, Adrianus L.; and Zweegers, Petrus W.,3,469,378.
Heesters, Johannes L.; Heesters, Laurentius C.; Heesters, Adrianus L.; and Zweegers, Petrus W., to Zweegers, P. J., and Zonen Landbouwmachinefabriek N.V. Rotating disc type mowing machine. 3,469,378, 9-30-69, Cl. 56-25.4
Heesters, Laurentius C.: *See*—
Heesters, Johannes L.; Heesters, Laurentius C.; Heesters, Adrianus L.; and Zweegers, Petrus W.,3,469,378.
Heetman, Alphonsus, to U.S. Philips Corporation, mesne. Locking reed and ball switches and matrices. 3,458,839, 7-29-69, Cl. 335-152.
Heffelfinger, Carl John, to Du Pont de Nemours, E. I., and Company. Biaxially oriented heat set film of high molecular weight polyethylene terephthalate. 3,432,591, 3-11-69, Cl. 264-289.
Hefferan, Gerald T.: *See*—
Hough, William V.; and Hefferan, Gerald T.,3,455,660.
Hefferan, Gerald T., to Mine Safety Appliances Company. Method of preparing tetraethylammonium decahydrodecaborate. 3,426,071, 2-4-69, Cl. 260-567.6
Heffernan, Joseph E., to Nest-A-Pal Corporation. Pallet. 3,428,003, 2-18-69, Cl. 108-53.
Heffernan, Joseph E., to Nest-A-Pal Corporation. Pallet. 3,470,832, 10-7-69, Cl. 108-53.
Heffernan, William R., to Johnson & Johnson. Method of making a container. 3,445,558, 5-20-69, Cl. 264-242.
Heffernan, William R., to Johnson & Johnson. Composite plastic and flexible panel container. 3,459,359, 8-5-69, Cl. 229-44.
Heffley, George J.: *See*—
Kraft, Arthur A., 3,437,001.
Heffner, Francis E., to General Motors Corporation. Hot gas engine with improved gas pressure control. 3,458,994, 8-5-69, Cl. 60-24.
Heffner, Francis E.; and Brandes, Roy H., to General Motors Corporation. Hot gas engine control system. 3,458,995, 8-5-69, Cl. 60-24.
Heffner, George R., to Pullman Incorporated. Foamed plastic structures. 3,470,058, 9-30-69, Cl. 161-69.
Heffner, Robert E., to Aluminum Company of America. Sealing machine. 3,429,102, 2-25-69, Cl. 53-333.
Heffner, Robert E., to Aluminum Company of America. Opening means for sealed containers. 3,446,390, 5-27-69, Cl. 220-54.
Heffran; Vernon C.: *See*—
Demsey, John N.; and Heffran, Vernon C.,3,478,554.
Heffron, Charles B., to Westinghouse Electric Corporation. Scanning circuit. 3,437,877, 4-8-69, Cl. 315-27.
Hefftner, Arnulf, to Bosch, Robert, GmbH. Separator for storage cells and method of producing the same. 3,440,108, 4-22-69, Cl. 136-145.
Hefler, paul R.: *See*—
Johnson, Graham K.,; and Hefler, paul R.,3,481,281.
Heflin, Kenneth C. Cargo carrying and loading apparatus for use on a vehicle roof. 3,452,893, 7-1-69, Cl. 214-450.

Heflinger, Lee O., to TRW Inc. Image stabilizer. 3,460,881, 8-12-69, Cl. 350-16.
Hefni, Ibrahim E., to Bell Telephone Laboratories, Incorporated. Microwave semiconductive device mount. 3,452,305, 6-24-69, Cl. 333-83.
Heft, Eldon B., to General Electric Company. Electric circuit breaker arc chute with arc discharge filter. 3,448,231, 6-3-69, Cl. 200-144.
Heft, Eldon B., to General Electric Company. Electric circuit breaker with special arc extinguishing structure. 3,483,343, 12-9-69, Cl. 200-147.
Hegar, Frank, to Warn-Belleview, Inc. Front wheel hub clutch. 3,442,361, 5-6-69, Cl. 192-67.
Hegar, Gert: *See—*
Riat, Henri; and Hegar, Gert,3,438,962.
Hegar, Gert, to Ciba Limited. Basic perinone dyestuffs containing condensed heterocyclic ring system. 3,455,922, 7-15-69, Cl. 260-256.4
Hegart, Gerald R.: *See—*
Weiner, Rubin; and Hegart, Gerald R.,3,447,934.
Hegarty, James J.: *See—*
Thunberg, Jon C.; and Hegarty, James J.,3,463,812.
Hegenscheidt, Wilhelm, Kommanditgesellschaft: *See—*
Louis, Leo, 3,427,519.
Heger, Ernst: *See—*
Deimling, Heinz; Holstein, Otto; and Heger, Ernst,3,448,212.
Heger, Klaus: *See—*
Kleinstuck, Werner; and Heger, Klaus,3,433,019.
Heggie, Henry W., to U.S. Industries, Inc. Stocking with girdle-attaching means. 3,463,162, 8-26-69, Cl. 128-519.
Heggstad, Gudmund: *See—*
Strom, Johan Nikolai; and Heggstad, Gudmund,3,433,879.
Hegland, Hjalmer: *See—*
Hegland, Norval A.; and Wendland, George H., 3,472,206.
Hegland, Norval A.; and Wendland, George H., 1/6 to Hegland, Hjalmer. Apparatus and method for farrowing sows and rearing and brooding piglets. 3,472,206, 10-14-69, Cl. 119-20.
Hegler, Wilhelm. Plastic pipe. 3,440,822, 4-29-69, Cl. 61-10.
Hegstad, Lester O., to Rockford Brass Works. Water softener valve. 3,476,151, 11-4-69, Cl. 137-625.29
Hegsvold, Oivind: *See—*
Faugli, Per Ragnar; Faugli, Ivar Odd; and Hegsvold, Oivind,3,477,340.
Hegyi, Moses, to Borg-Warner Corporation. Die forming swage. 3,461,714, 8-19-69, Cl. 72-416.
Heh, George J.: *See—*
Copenhefer, John E.; and Heh, George J.,3,459,613.
Heh, George J., to American Air Filter Company, Inc. Graduated density filamentous mat. 3,476,635, 11-4-69, Cl. 161-60.
Hehn, Bruce, to Wheeling Steel Corporation. Support means for expanded metal mesh. 3,444,663, 5-20-69, Cl. 52-650.
Hehnen, Jsef: *See—*
Schulz, Egon; and Hehnen, Jsef,3,453,503.
Hehr, Frederick N. Downspout debris trap. 3,421,629, 1-14-69, Cl. 210-232.
Heiba, El-Ahmadi I., to Mobil Oil Corporation. Preparation of olefinic sulfides. 3,428,688, 2-18-69, Cl. 260-609.
Heiba, El-Ahmadi I.; and Dessau, Ralph M., to Mobil Oil Corporation. Cyclization reaction and vinylcyclopentane derivatives. 3,435,080, 3-25-69, Cl. 260-648.
Heiberger, Charles A.; and Fishbein, Leon, to Air Reduction Company, Incorporated, mesne. Vinyl chloride-ethylene copolymers and molding compositions containing said copolymers. 3,468,840, 9-23-69, Cl. 260-41.
Heiberger, Charles A.; and Fishbein, Leon, to Air Reduction Company, Incorporated. Vinyl chloride-propylene copolymers. 3,468,858, 9-23-69, Cl. 260-87.5
Heichlinger, Heinrich. Laminar sheet material for making negative transparencies. 3,445,268, 5-20-69, Cl. 117-76.
Heid, Christian: *See—*
Mix, Konrad; and Heid, Christian,3,473,883.
Heid, Hans: *See—*
Meier, Paul, 3,457,973.
Heide, Gotthard, to Schmitz, Richard F., Firma, comprising Schmitz, Richard F., and Peter, Eberhard. Pipe bending press. 3,452,583, 7-1-69, Cl. 72-453.
Heidecker, Robert F.; and Leonardi, Joseph R., to International Business Machines Corporation. Biased bridge coupled bipolar amplifier. 3,487,320, 12-30-69, Cl. 330-13.
Heidecker, Stephen C.: *See—*
Graver, Richard B.; Heidecker, Stephen C.; and Taft, David D.,3,481,735.
Heidel, Klaus: *See—*
Gorke, Klaus; and Heidel, Klaus,3,457,207.
Heidelberger Druckmaschinen Aktiengesellschaft: *See—*
Beisel, Hermann, 3,424,085.
Heidemann, Eckhart; and Keller, Heinz. Tanning machine. 3,457,742, 7-29-69, Cl. 69-30.
Heidemann, Hans Heinrich: *See—*
Koch, Helmut; Heidemann, Hans Heinrich; Birk, Peter; Busch, Hans-Jurgen; and Bernhardt, Jost,3,441,964.
Heidemann, William B.; and Weaver, George W., to Explosive Technology, Inc. One-way detonation transfer device and assembly. 3,460,477, 8-12-69, Cl. 102-27.
Heidenbluth, Karlheinz: *See—*
Dauth, Christoph Eugen; Tonjes, Heinz Karl Wilhelm; Heidenbluth, Karlheinz; and Schmidt, Joachim Fritz,3,475,449.
Heidenreich & Harbeck: *See—*
Apitz, Gerhard, 3,444,655.
Clausen, Rolf; Kleimenhagen, Gunter; and Salje, Ernst, 3,460,412.
Heidenreich, Karl: *See—*
Hansen, Walter; and Heidenreich, Karl,3,469,513.
Heidenreich, Paul: *See—*
Unger, Artur; Stehmann, Hans-Peter; and Heidenreich, Paul,3,426,519.
Heider, Helmut; and Looss, Helmut, to Licentia Patent-Verwaltungs-G.m.b.H. Control system for rotatable gun platform and optical sight. 3,443,476, 5-13-69, Cl. 89-41.
Heider, James E.; and Rhoads, Roger R., to Owens-Illinois, Inc. Quilted plastic packing material and method of forming. 3,462,007, 8-19-69, Cl. 206-46.
Heider, James E.; and Santelli, Thomas R., to Owens-Illinois, Inc. Apparatus for extruding products reinforced by elongated continuous fibers. 3,429,003, 2-25-69, Cl. 18-12.
Heider, Joachim; Machleidt, Hans; and Kobinger, Walter, to Boehringer Ingelheim G.m.b.H. Novel derivatives of desglucohellebrin. 3,471,470, 10-7-69, Cl. 260-210.5
Heider, Johann: *See—*
Liebe, Holm; Heider, Johann; and Hatzfeld, August,3,471,676.
Heidland, Carl E. Trash picker. 3,474,483, 10-28-69, Cl. 15-319.
Heidner, Richard C.; and Goodwin, Max E., to Outboard Marine Corporation. Lawn mower. 3,453,812, 7-8-69, Cl. 56-25.4
Heidrich, Gunther R.: *See—*
Barwig, Hans A.; and Heidrich, Gunther R.,3,434,374.
Heidrich, Gunther, to Stoeckicht, Alexander W. Spur gear type planetary gearings. 3,424,035, 1-28-69, Cl. 74-801.
Heidrich, Gunther, to Stoeckicht, Alexander Wilhelm. Fluid pressure engaged friction coupling. 3,450,242, 6-17-69, Cl. 192-88.
Heidrich, Gunther, to Stoeckicht, Alexander. Spur gear with herringbone toothing. 3,486,394, 12-30-69, Cl. 74-458.
Heidrich, Walter; and Korner, Klaus, to Synfibrit G.m.b.H. & Co., mesne. Method and means for producing foamed silicate articles. 3,432,580, 3-11-69, Cl. 264-43.
Heidt, Lawrence J., to Simplex Wire and Cable Company. Voltage stabilized liquid dielectrics. 3,420,778, 1-7-69, Cl. 252-63.7
Heidtmann, Donald S., to General Electric Company. Microwave dryer control circuit. 3,439,431, 4-22-69, Cl. 34-1.
Heidtmann, Donald S., to General Electric Company. Control for electromagnetic clutch. 3,483,719, 12-16-69, Cl. 68-12.
Heier, William, to Har-Will Corporation, mesne. Beverage brewing apparatus. 3,483,811, 12-16-69, Cl. 99-289.
Heierli & Co.: *See—*
Schuppisser, Armin; and Heierli, Werner, 3,482,406.
Heierli, Werner; and Schuppisser, Armin. Reinforced concrete module joint. 3,478,481, 11-18-69, Cl. 52-432.
Heierli, Werner: *See—*
Schuppisser, Armin; and Heierli, Werner,3,482,406.
Heifetz Metal Crafts, Inc.: *See—*
Heifetz, Sidney T., 3,442,368.
Heifetz, Sidney T., to Heifetz Metal Crafts, Inc. Tray conveyors. 3,442,368, 5-6-69, Cl. 198-197.
Heightley, John D.; Johannes, Virgil I.; Mayo, John S.; and Witt, Francis J., to Bell Telephone Laboratories, Incorporated. Jitter reduction in pulse multiplexing systems employing pulse stuffing. 3,420,956, 1-7-69, Cl. 179-15.
Heights Laboratory Glass Inc.: *See—*
Deery, Edward D.; Deery, Edward J.; and Deery, Arthur R., 3,427,143.
Heigl, Carl H., to Harris-Intertype Corporation. Collator. 3,466,026, 9-9-69, Cl. 270-58.
Heij, Willem, to N.V. Onderzoekingsinstituut Research. Bulky warp-knit fabrics. 3,453,844, 7-8-69, Cl. 66-192.
Heijne, Leopold; and Vink, Adrianus Teunis, to North American Philips Company Inc. Pressure gauge. 3,426,597, 2-11-69, Cl. 73-399.
Heijnis, James W. I., to American Enka Corporation. Gear pump. 3,420,185, 1-7-69, Cl. 103-126.
Heijnis, James W. Ij., to American Enka Corporation. Tow cutting apparatus having knife resharpening means. 3,472,107, 10-14-69, Cl. 83-71.
Heikinheimo, Olli, to Plan-Sell Oy. Method and apparatus for drying goods in layers. 3,444,627, 5-20-69, Cl. 34-23.
Heikkila, Andrew E.: *See—*
Mindell, Marvin I.; Heikkila, Andrew E.; Harrison, Henry; and Wolz, Rudolph G.,3,477,008.
Heil Co., The: *See—*
Meyer, Arnold F., 3,442,458.
Heil, Eduard: *See—*
Herrle, Karl; Baumann, Karl Heinz; Beckmann, Wilhelm; and Heil, Eduard,3,458,467.

Heil, Frank J., 20% to Rominger, Albert H. Rominger, Donald A. Rominger, Richard E., doing business as Rominger, A. H., & Sons. Cable laying apparatus and method of laying cable. 3,456,449, 7-22-69, Cl. 61-72.6

Heil, Hans W., to Hughes Aircraft Company. Method and apparatus for producing a color kinescope and blank unit therefor. 3,479,711, 11-25-69, Cl. 29-25.13

Heil, Oskar, to Varian Associates, mesne. Ridged dielectric window with titanium suboxide solely on ridges. 3,441,784, 4-29-69, Cl. 315-5.

Heil-Quaker Corporation: *See—*
Herbert, Richard M.; and Hinds, James C., 3,476,411.

Heiland, Wolfgang K., to United States of America, Agriculture. Self-cleaning venting orifice. 3,430,643, 3-4-69, Cl. 137-244.

Heiland, Wolfgang K.; and Mercaldo, Raymond G., to United States of America, Agriculture. Automatic explosive puffing apparatus. 3,456,576, 7-22-69, Cl. 99-238.

Heilbrunn, Alfred, to Topps Chewing Gum, Incorporated. Article feed control. 3,448,905, 6-10-69, Cl. 226-44.

Heilbrunn, Alfred, to Topps Chewing Gum, Incorporated. Treatment apparatus for elongated article. 3,458,899, 8-5-69, Cl. 18-6.

Heilhecker, Joe K.: *See—*
Kerver, John K.; Kaiser, Albert D., Jr.; Heilhecker, Joe K.; and Mc Kinney, Joseph M.,3,481,400.

Heilig, Alfred; and Zerrer, Gerhard, to Jackle, Otto, mesne. Device for debarking tree trunks. 3,477,482, 11-11-69, Cl. 144-208.

Heilig, Morton L. Experience theater. 3,469,837, 9-30-69, Cl. 272-8.

Heiling, Heinzfelix M.: *See—*
Gebauer, Karl; Brugger, Robert; and Heiling, Heinzfelix M.,3,447,953.

Heilman, Linda: *See—*
Senkewich, Alexander M., 3,447,186.

Heilman, William J.: *See—*
Francis, David W.; and Heilman, William J.,3,458,567.

Heilman, William J., to Gulf Research & Development Company. Thermosettable composition containing poly- anhydride, an olefinically unsaturated monoxirane compound and an olefinically unsaturated monomer and the method of making. 3,441,543, 4-29-69, Cl. 260-78.5

Heilman, William J., to Gulf Research & Development Company. Thermosettable composition composed of a poly- anhydride and a mono-oxarane compound and method of producing. 3,453,246, 7-1-69, Cl. 260-78.5

Heilman, William J.; and Jenkins, David M., to Gulf Research & Development Company. Process of formimg copolymers of mallic anhydride and an aliphatic olefin having six carbon atoms. 3,461,108, 8-12-69, Cl. 260-78.5

Heilmann & Littman Bau-Aktiengesellschaft, Messrs.: *See—*
Buyer, Karl, 3,425,177.

Heilmann, Max: *See—*
Frank, Karl; and Heilmann, Max,3,467,521.

Heilmeier, George H.; and Heyman, Philip M., to Radio Corporation of America. Bistable ferroelectric field effect device. 3,423,654, 1-21-69, Cl. 317-235.

Heilmeier, George H.; and Zanoni, Louis A., to RCA Corporation. Method for preparing a ferroelectric body and devices. 3,449,824, 6-17-69, Cl. 29-571.

Heilweil, Israel J.: *See—*
Dickert, Joseph J., Jr.; Heilweil, Israel J.; and Rowe, Carleton N.,3,423,316.

Heilweil, Melvin F.; Maley, Gerald A.; Muhlenbruch, Gilbert R.; and Ogden, Stewart, to International Business Machines Corporation. Graphic vector generator. 3,459,926, 8-5-69, Cl. 235-152.

Heim, Armin; and Hillebrand, Friedhelm, to Kloeckner-Werke AG. Core portion of a railroad frog and method of making the same. 3,480,072, 11-25-69, Cl. 164-93.

Heim, Gerhard, to Daimler-Benz Aktiengesellschaft. Installation for the sealing of relatively movable parts, especially of sliding windows in motors vehicles. 3,438,150, 4-15-69, Cl. 49-319.

Heim, Heinz, to Braun Aktiengesellschaft. Means for deenergizing the driving motor of a record player. 3,485,332, 12-23-69, Cl. 192-118.

Heim, John H., to Hasbro Industries, Inc. Toy programmed vehicle. 3,482,352, 12-9-69, Cl. 46-244.

Heim, Richard: *See—*
Sowa, Kurt Wilhelm Gunter, 3,443,185.

Heim, Richard C., to Westinghouse Electric Corporation. Laminated magnetostrictive transducer apparatus. 3,458,736, 7-29-69, Cl. 310-26.

Heim, Richard C., to Westinghouse Electric Corporation. Magnetostrictive transducer apparatus. 3,474,271, 10-21-69, Cl. 310-26.

Heim Universal Corporation: *See—*
Chow, Ho, 3,447,357.

Heim Universal Corporation, The: *See—*
Chow, Ho, 3,441,300.
McCloskey, Albert R., 3,471,207.

Heimann, Alfred: *See—*
Scholl, Hans; and Heimann, Alfred,3,461,826.

Heimann, Bernard; Duncan, Lloyd P.; and Oberg, Nathan, to Zero Manufacturing Company. Automatic vacuum regulator. 3,482,593, 12-9-69, Cl. 137-512.

Heimann, Fred G., to Fruehauf Corporation. Insulated wall construction. 3,432,979, 3-18-69, Cl. 52-309.

Heimann, Richard H., to Technicon Corporation. Method and means for processing tissue. 3,479,196, 11-18-69, Cl. 117-3.

Heimann, W.: *See—*
Heimann, Walter; and Scherzer, Otto, 3,448,317.

Heimann, Walter; and Hofmann, Hans, to Forschungslaboratorium, Heiman, Walter, Prof. Dr.-Ing. Window for infra-red detectors and method of making the same. 3,458,379, 7-29-69, Cl. 156-272.

Heimann, Walter; Maus, Hans R.; and Wolf, Erich A., to Forschungslaboratorium, Heimann, Walter, Prof. Dr.-Ing. Photocell construction having transparent substrate upon which photocell is disposed and heat sink. 3,449,580, 6-10-69, Cl. 250-211.

Heimann, Walter; and Scherzer, Otto, to Heimann, W. Forschungslaboratorium, Heimann, W., Prof. Dr.-Ing. Semi-conductive device for reducing distortion in electron optics. 3,448,317, 6-3-69, Cl. 313-89.

Heimann, Werner. Pliers. 3,456,349, 7-22-69, Cl. 32-62.

Heimbach, Paul: *See—*
Wilke, Gunther; Muller, Ernst Willi; Kroner, Michael; Heimbach, Paul; and Breil, Heinz,3,450,732.

Heimberger, Helmut, to Opti-Holding A.G., Firma. Self-locking slider. 3,419,943, 1-7-69, Cl. 24-205.14

Heimberger, Helmut, to Opti-Holding A.G. Method for the production of slide-fastener coupling elements. 3,431,337, 3-4-69, Cl. 264-281.

Heimberger, Helmut, to Opti-Holding AG. Slide fastener with continuous coupling element. 3,456,306, 7-22-69, Cl. 24-205.16

Heimberger, Werner, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. 2-Chloromethyl-4-alkanolamino-6- tertiary amino triazines. 3,462,430, 8-19-69, Cl. 260-247.5

Heimbrock, Henry H., to Van Products, Incorporated. Connector clip. 3,430,191, 2-25-69, Cl. 339-258.

Heimel, Kurt: *See—*
Debus, Karl; and Heimel, Kurt,3,480,133.

Heimes, Willi: *See—*
Franzen, Gustav; Lossa, Ulrich; and Heimes, Willi,3,466,865.
Nimtz, Klaus; Franzen, Gustav; and Heimes, Willi,3,461,660.

Heimes, Willy: *See—*
Nimtz, Klaus; Heimes, Willy; and Lossa, Ulrich,3,456,432.

Heimes, Willy, to Palitex Project-Company G.m.b.H. Singeing device for threads. 3,447,214, 6-3-69, Cl. 28-63.

Heimke, Gunther, to Magnetfabrik Bonn G.m.b.H. vorm. Gewerkschaft Windhorst. Preparation of sintered permanent alnico magnets. 3,428,498, 2-18-69, Cl. 148-101.

Heimke, Gunther, to Magnetfabrik Bonn G.m.b.H. vorm. Gewerkschaft Windhorst. Directionally solidified permanent magnet alloys with aligned ferromagnetic whiskers. 3,434,892, 3-25-69, Cl. 148-31.57

Heimler, Andre, to Societe Anonyme D.B.A. Universal joint. 3,478,538, 11-18-69, Cl. 64-7.

Heimlich, Henry J. Instrument for drainage of the chest. 3,463,159, 8-26-69, Cl. 128-350.

Heimlicher, Paul; and Burki, Rene, to Fallert Winkler & Co. Ltd. Clamping device for flexible printing plates. 3,470,817, 10-7-69, Cl. 101-378.

Heimlicher, Paul; and Rohrer, Jean, to Maschinenfabrik Winkler, Falbert & Co., AG. Ink roller vibrator. 3,440,957, 4-29-69, Cl. 101-349.

Heimovics, John F.: *See—*
Sidles, James; and Heimovics, John F.,3,421,566.

Hein, Charles E., to Borg-Warner Corporation, mesne. Torque limiter device. 3,447,342, 6-3-69, Cl. 64-30.

Hein, Charles E., to Borg-Warner Corporation, mesne. One way clutch. 3,482,667, 12-9-69, Cl. 192-45.

Hein, Charles E.; and Tennies, James O., to Borg-Warner Corporation, mesne. Vented mechanical device. 3,439,963, 4-22-69, Cl. 308-36.1

Hein, Erhard Armin. Method of recovering starch from plant materials. 3,433,668, 3-18-69, Cl. 127-67.

Hein, Ewald, to Siegener Machinenbau G.m.b.H. Rolling mill arrangement. 3,486,359, 12-30-69, Cl. 72-200.

Hein, Gary L., to Lincoln Laboratories Inc. Immersion means including work holder. 3,465,717, 9-9-69, Cl. 118-429.

Hein, George N. Air driven centrifuge. 3,456,875, 7-22-69, Cl. 233-24.

Hein, Gerald M.: *See—*
Phillips, Paul S., Jr.; and Hein, Gerald M.,3,455,721.

Hein, Quentin W.: *See—*
Wellauer, Edward J.; Hein, Quentin W.; Bade, Alfred G.; and Pokrandt, Glenn C.,3,457,731.

Hein, Ronald L. Anti-stick automatic welding tip. 3,430,837, 3-4-69, Cl. 228-53.

Hein, Theodore F.: *See—*
Claessens, Frans D.; and Hein, Theodore F.,3,439,433.

Hein-Werner Corporation: *See—*
Witwer, Wallace J., 3,426,926.
Witwer, Wallace J., 3,451,560.
Witwer, Wallace J., 3,476,274.

Heine, Heinz: *See—*
Zirngibl, Hans; Gerken, Rudolf; Heine, Heinz; and Weise, Johannes,3,486,846.
Heine, John C.: *See—*
Allen, Clayton H.; and Heine, John C.,3,480,281.
Heine, Otto R., to Lear Siegler, Inc. Spherically mounted floating radiation reflector. 3,441,936, 4-29-69, Cl. 343-709.
Heine, Richard F., to Minnesota Mining and Manufacturing Company. Dripless container coated with fluoroaliphatic siloxanes. 3,423,234, 1-21-69, Cl. 117-124.
Heine, Richard F., to Minnesota Mining and Manufacturing Company. Treating composition, method of treating and treated surfaces. 3,442,664, 5-6-69, Cl. 106-2.
Heine, Richard F.: *See—*
Whittemore, Charles A.; and Heine, Richard F.,3,471,587.
Heine, Richard O. Educational device. 3,422,547, 1-21-69, Cl. 35-9.
Heinemann Electric Company: *See—*
Camp, William W., 3,422,235.
Mune, Charles, 3,453,408.
Heinemann Electric (S.A.) Limited: *See—*
Tarchalski, Edward, 3,438,536.
Heinemann, Frederick E.; and Moore, Charles B., to Grace, W. R., & Co. Pressure-sensitive tape. 3,466,187, 9-9-69, Cl. 117-122.
Heinemann, Heinz; and Miller, Kenneth D., Jr., to Pullman Incorporated. Halogenation of ethylene by contact with aqueous cupric-cuprous chloride solution. 3,461,180, 8-12-69, Cl. 260-659.
Heinemann, Robert W.; and Greene, Edward G., to United States of America, Army. Time-delay control unit for demolition operations and the like. 3,470,819, 10-7-69, Cl. 102-82.
Heinen, Peter: *See—*
Ensslin, Kurt; Heinen, Peter; and Rongen, Josef,3,460,213.
Heinen, Peter, to Glanzstoff A.G. Device for accumulating filaments during spool- change. 3,423,000, 1-21-69, Cl. 226-97.
Heiner, Edward A.; and Flannery, John D., to Litton Business Systems, Inc. Mold structure for use with double injection mold machines. 3,435,483, 4-1-69, Cl. 18-42.
Heinert, Dietrich H., to Dow Chemical Company, The. Preparation of organic isocyanates. 3,470,228, 9-30-69, Cl. 260-453.
Heinert, Dietrich H., to Dow Chemical Company, The. Preparation of carbamoylsulfonates. 3,478,090, 11-11-69, Cl. 260-502.6
Heinert, Dietrich H., to Dow Chemical Company, The. Preparation of trialkenyl isocyanurates. 3,480,627, 11-25-69, Cl. 260-248.
Heinert, Dietrich H.; and Burgert, Bill E., to Dow Chemical Company, The. Metal and ammonium N-hydroxymethyl and N,N-bis (hydroxymethyl) carbamoylsulfonates. 3,457,287, 7-22-69, Cl. 260-429.7
Heinert, Paul G. Loading device. 3,446,377, 5-27-69, Cl. 214-302.
Heinicke Instruments Co.: *See—*
Lawrence, Robert, III, 3,438,583.
Shafer, Paul K., 3,452,841.
Heinicke, Ralph M., to Castle & Cooke, Inc. Ion exchange treatment of bromelain. 3,475,277, 10-28-69, Cl. 195-66.
Heinige, Jerry. Ejection pump. 3,447,467, 6-3-69, Cl. 103-5.
Heiniger-Schar Paul Friedrich, to Krause, Robert KG Zweigniedeslassung. Guiding means, in particular for drawers and the like. 3,456,996, 7-22-69, Cl. 312-347.
Heinke, Walter M.: *See—*
Baez, Edgar R.; Heinke, Walter M.; and Nelken, Alfred,3,433,940.
Heinkel, Ernst, Aktiengesellschaft: *See—*
Arentoft, Holger; and Eggstein, Giorgio, 3,422,622.
Eggstein, Giorgio, 3,434,573.
Eggstein, Giorgio, 3,473,329.
Ruprecht, Robert; Heydlauf, Kurt; and Braun, Herbert, 3,434,363.
Ruprecht, Robert; and Schaftner, Erich, 3,444,749.
Ruprecht, Robert, 3,470,756.
Heinlein, Walter, to Siemens Aktiengesellschaft. Parametric amplifier using diode self-resonance for idle circuit. 3,462,696, 8-19-69, Cl. 330-4.9
Heinlein, Werner: *See—*
Reichert, Ludwig; and Heinlein, Werner,3,465,112.
Heinmann Electric Company: *See—*
Ellis, Arthur T., Jr., 3,440,584.
Heinonen, Russell M., Jr., to Technical Operations, Incorporated. Intermittent film contact pressure apparatus for cinematographic cameras. 3,479,114, 11-18-69, Cl. 352-225.
Heinrich, Allan E., to Applied Power Industries, Inc. Valve plate motor pump. 3,453,965, 7-8-69, Cl. 103-162.
Heinrich, Elmer G. Nonfreezing fluid connection. 3,446,278, 5-27-69, Cl. 165-155.
Heinrich, Ernst: *See—*
Ritter, Heinrich; Heinrich, Ernst; von Brachel, Hanswilli; and Kindler, Horst,3,487,066.
Heinrich Frings: *See—*
Ebner, Heinrich, 3,445,245.
Heinrich, Hans: *See—*
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; Witsch, Heinz-Guenter; and Theilig, Dietmar,3,442,600.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; and Witsch, Guenter,3,478,376.
Heinrich, Karl: *See—*
Kurzke, Herbert; Bauer, Gunther; and Heinrich, Karl,3,479,689.
Heinrich, Peter, Jr.: *See—*
Kudlaty, Walter J.; and Heinrich, Peter, Jr.,3,420,375.
Heinrich, Raymond L.: *See—*
Maggart, Ronald C.; Rothenberg, Don H.; and Heinrich, Raymond L.,3,433,661.
Heinrich, Robert G., to Hamco Machines and Electronics Corporation. Precision cutting apparatus. 3,432,973, 3-18-69, Cl. 51-108.
Heinrich, Willi: *See—*
Maasberg, Wolfgang; and Heinrich, Willi,3,427,763.
Heins, Arnold, to Henkel & Cie G.m.b.H. Adhesive composition and process for adhesively joining elastomers to metals. 3,423,270, 1-21-69, Cl. 156-330.
Heins, Arnold, to Henkel & Cie, G.m.b.H. Adhesive composition and process for adhesively joining elastomers to metals. 3,425,886, 2-4-69, Cl. 156-330.
Heintz, Daniel N.; and Lange, Robert G., to Monsanto Company. Preparation of hydrogenbromide. 3,445,188, 5-20-69, Cl. 23-154.
Heintz, James C., Company, The: *See—*
Holmes, Jack H., 3,474,499.
Heintz, Joseph A.: *See—*
Wostl, Wolfgang J.; and Heintz, Joseph A.,3,448,616.
Heintz, Richard P.; and Vanderlaan, Robert D., to Pneumo Dynamics Corporation. Control valve pressurizing port. 3,426,796, 2-11-69, Cl. 137-625.21
Heintz, Robert, to Institut de Recherches de la Siderurgie Francaise. Method and apparatus for regulating the flow of molten metal. 3,486,660, 12-30-69, Cl. 222-1.
Heintze, Ernst: *See—*
Troemel, Gerhard; and Heintze, Ernst,3,486,970.
Heintzelman, William J.; and Naiman, Michael A., to Petrolite Corporation. Grafted waxes. 3,437,623, 4-8-69, Cl. 260-28.5
Heiny, Arza D.: *See—*
Campbell, Robert W.; and Heiny, Arza D.,3,445,694.
Heinz, Alfred, to Western Electric Company Incorporated. Method and apparatus for dynamically checking rotational couplings using pattern comparison. 3,462,607, 8-19-69, Cl. 250-215.
Heinz, H. J., Company Limited: *See—*
Bishop, James Lawrence, 3,473,499.
Heinz, H. V., Company Limited: *See—*
Janovtchik, Viacheslav Jansen; and Catelli, Camillo, 3,469,327.
Heinz, Harro K.; and Frei, Karl, to Fisher Radio Corporation. Detectors for frequency modulated (FM) signal receivers having pulse generating circuitry. 3,431,503, 3-4-69, Cl. 329-103.
Heinz, Karl Ludwig, to Lever Brothers Company. Detergent composition. 3,470,102, 9-30-69, Cl. 252-152.
Heinz, Kenneth J.; and Hintz, Elmer J., to Kimberly-Clark Corporation. Papermaking machine. 3,438,295, 4-15-69, Cl. 83-98.
Heinz Mathes KG.: *See—*
Muller, Heinz, 3,434,238.
Heinz Schurmann & Co., Firma: *See—*
Muehle, Manfred, 3,445,978.
von Wedel, Ernst, 3,465,996.
Heinz, Walter E.: *See—*
Smith, Eldred T.; and Heinz, Walter E.,3,428,605.
Heinz, Winfield B. Method and apparatus for heating and distilling saline water using heated pebbles. 3,442,769, 5-6-69, Cl. 203-7.
Heinze, Walter W.; Jones, Evan A.; and Carson, Don B., to Universal Oil Products Company. Internally insulated and lined pressure vessel. 3,476,283, 11-4-69, Cl. 220-15.
Heinzel, Irving C.: *See—*
Brooks, William R.; and Heinzel, Irving C.,3,422,992.
Heinzelmann, Fred J.; and Saxton, Arthur L., to Esso Research and Engineering Company. Method of producing reducing gases, for the fluidized bed reduction of ores. 3,475,160, 10-28-69, Cl. 75-26.
Heinzen, Robert A., to American Machine & Foundry Company. Coil and spool therefor. 3,470,511, 9-30-69, Cl. 335-296.
Heinzen, Robert Arthur; and Morley, Edwin Richard, to American Machine & Foundry Company. Synchronous motor with permanent magnet rotor. 3,475,630, 10-28-69, Cl. 310-43.
Heinzmann, Rolf, to Bosch, Robert, Elektronik und Photokino G.m.b.H. Exposure control for photographic camera. 3,456,570, 7-22-69, Cl. 95-64.
Heirich, William C. Wall paneling system. 3,452,500, 7-1-69, Cl. 52-478.
Heirich, William C. Wall panel supporting system. 3,453,795, 7-8-69, Cl. 52-479.
Heise, Richard E., to Automated Building Components, Inc. Double-ended fastener. 3,485,518, 12-23-69, Cl. 287-20.92
Heiseler, George W., to Boston Machine Works Company. Top line pressing machine for shoe uppers. 3,443,269, 5-13-69, Cl. 12-55.
Heiser, Elmer F. Forming apparatus and fluid spring therein. 3,425,257, 2-4-69, Cl. 72-297.
Heiser, Elmer F. Adapter cushion. 3,457,765, 7-29-69, Cl. 72-432.
Heisler, Raymond A. Slide changer for multi-thickness transparencies. 3,419,982, 1-7-69, Cl. 40-79.

Heisler, Raymond A. Eared container feeding apparatus. 3,420,201, 1-7-69, Cl. 113-113.
Heisler, Raymond A. Lid retaining clip for eared containers. 3,420,399, 1-7-69, Cl. 220-55.
Heisler, Raymond A. Eared laminated plastic container. 3,420,400, 1-7-69, Cl. 220-91.
Heisler, Raymond A. Slide changer and slide carton passable therethrough. 3,423,863, 1-28-69, Cl. 40-79.
Heisler, Raymond A. Wire handling apparatus. 3,424,208, 1-28-69, Cl. 140-93.
Heisler, Raymond A. Method for making eared tapered containers. 3,430,410, 3-4-69, Cl. 53-26.
Heisler, Raymond A. Method and apparatus for applying plastic grips to wire bail handles. 3,444,905, 5-20-69, Cl. 140-75.
Heisler, Raymond A. Ear-engaging and lifting mechanism. 3,447,501, 6-3-69, Cl. 113-1.
Heisler, Raymond A. Slip-in loading for flim editors. 3,447,866, 6-3-69, Cl. 352-119.
Heisler, Raymond A. Eared containers metering feed and accumulating apparatus. 3,462,823, 8-26-69, Cl. 29-208.
Heisler, Raymond A. Tab ear for tapered containers. 3,463,352, 8-26-69, Cl. 220-91.
Heisler, Raymond A. Ear inspection and detection apparatus. 3,464,462, 9-2-69, Cl. 140-93.
Heisler, Robert Y.: *See*—
Arkell, Alfred; Reinhard, Russell R.; Heisler, Robert Y.; and Larson, Lewis P.,3,454,369.
Heisler, Robert Y.; Dille, Kenneth L.; Fontaine, Marc F.; and Eckert, George W., to Texaco Inc. Saturated aliphatic hydrocarbon gasoline. 3,421,867, 1-14-69, Cl. 44-66.
Heisrath, Horst O., to Sylvania Electric Products, Inc. Sound reproduction system and loudspeaker assembly. 3,473,625, 10-21-69, Cl. 181-31.
Heiss, Herbert L., to Mobay Chemical Company. Crude polyisocyanate compositions and preparation thereof. 3,479,384, 11-18-69, Cl. 260-453.
Heiss, Herbert L., to Mobay Chemical Company. N-tin carbamic acid derivatives. 3,480,656, 11-25-69, Cl. 260-429.7
Heiss, Rudolf; Bocker, Ernst; and Behrenz, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Alkexyphenyl-N-methyl carbamic acid ester. 3,433,826, 3-18-69, Cl. 260-479.
Heiss, Rudolf; Bocker, Ernst; Behrenz, Wolfgang; and Unterstenhofer, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. 2-Methyl-coumaran-7yl-N-methyl-carbamate. 3,470,299, 9-30-69, Cl. 424-285.
Heiss, Rudolf; Grigat, Ernst; Bocker, Ernst; and Hermann, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Nitrophenyl carbamic acid esters as molluscicides. 3,458,639, 7-29-69, Cl. 424-300.
Heiss, Rudolf; Hahn, Willi; Behrenz, Wolfgang; and Unterstenhofer, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. 3,5-Dimethyl-4-α-allyl mercaptophenyl-N-methyl carbamic acid ester. 3,437,684, 4-8-69, Cl. 260-479.
Heissmeier, Walter; Klein, Karl; and Wagnerberger, Wolfgang, to Siemens Aktiengesellschaft. Magnetic record medium with edge areas of polarity opposite that of center area. 3,474,430, 10-21-69, Cl. 340-174.1
Heissmeier, Walter; and Wagnerberger, Wolfgang, to Siemens Aktiengesellschaft. Memory system for machine control. 3,451,050, 6-17-69, Cl. 340-174.1
Heisterberg, Milton W.: *See*—
Thompson, Joseph Charles; and Heisterberg, Milton W.,3,439,829.
Heitman, Clarence H. Pressure sensitive measuring tape for use in shoe manufacture. 3,470,574, 10-7-69, Cl. 12-142.
Heitman, Joseph B., to Pennsalt Chemicals Corporation. Electrolytic process for preparing an aqueous ammoniacal solution of cupric ion. 3,479,263, 11-18-69, Cl. 204-86.
Heitmann, Albert: *See*—
Felsner, Franz; and Heitmann, Albert,3,449,790.
Heitmann, Arnold M.: *See*—
Blattner, Ernest W.; Boettcher, Harry H.; Carter, Anthony F.; Heitmann, Arnold M.; Holt, Wainwright, Jr.; and Wilson, David G.,3,424,372.
Heitmann, Guenter, to Metallgesellschaft Aktiengesellschaft. Process of reducing metal ores. 3,425,824, 2-4-69, Cl. 75-33.
Heitmann, Gunter, to Metallgesellschaft Aktiengesellschaft, and Steel Company of Canada Limited, The. Pelletization of a sponge, iron produced by direct reduction. 3,469,970, 9-30-69, Cl. 75-33.
Heitmann, Gunter, to Metallgesellschaft Aktiengesellschaft, and Steel Company of Canada Limited, The. Process for the production of iron sponge. 3,486,883, 12-30-69, Cl. 75-33.
Heitmann, Gunter: *See*—
Rausch, Hans; Heitmann, Gunter; and Thumm, Wilhelm,3,428,445.
Heitmann, Herbert, to International Standard Electric Corporation. Control circuit for glass reed matrix. 3,466,607, 9-9-69, Cl. 340-166.
Heitmeier, Donald E.: *See*—
Gray, Allan Poe; and Heitmeier, Donald E.,3,472,895.
Heitz, Roberg G.: *See*—
Brown, William E.; Heitz, Roberg G.; and Levine, Charles A.,3,476,602.
Heitzer, Heinrich, to Demag-Lauchhammer, Maschinen -und Stahlbau GmbH. Dredge having bucket emptying means. 3,475,842, 11-4-69, Cl. 37-189.
Heitzman, Charles J., to R & H Molding, Inc. Hydraulic oral hygiene apparatus. 3,468,306, 9-23-69, Cl. 128-66.
Heitzman, Charles J. Pulsating device for water outlet fixtures. 3,473,736, 10-21-69, Cl. 239-101.
Hekrdle, Jan, to Ceskoslovenska akademie ved. Step-by-step nonlinear voltage divider for digital photometer. 3,441,835, 4-29-69, Cl. 323-80.
Helber, Karl; and Wurster, Richard, to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic shutter with reciprocating shutter blades. 3,482,501, 12-9-69, Cl. 95-63.
Helberg, Henry J.; and Proxmire, Harry J., to General Electric Company. Adjustable sliding brush transformer and method of producing same. 3,480,897, 11-25-69, Cl. 336-149.
Held, Edward C., Jr.,: *See*—
Rakes, James L.; Rees, Robert L.; and Held, Edward C., Jr.,,3,474,165.
Williams, George E.; and Held, Edward C., Jr.,3,486,197.
Held, Franklin W. Racket stringer. 3,441,275, 4-29-69, Cl. 273-73.
Held, Fritz; and Bolz, Edmund, to Gesellschaft zur Forderung der Forschung an der Eidgenossischen Technischen Hochschule. Protection of electrical contacts. 3,458,351, 7-29-69, Cl. 117-212.
Held, Kalman; and Solon, Leonard R., to Radioptics, Inc. Phosphor transducer means for pumping coherent light generators by nuclear energy sources. 3,470,490, 9-30-69, Cl. 331-94.5
Held, Karl: *See*—
Hageluken, Hubert; and Held, Karl,3,453,782.
Held, Manfred: *See*—
Thomanek, Franz R.; and Held, Manfred,3,438,326.
Held, Serge Simon. Electronically sustained clockwork mechanism. 3,465,511, 9-9-69, Cl. 58-28.
Helda, Robert W., to Motorola, Inc. Aligning apparatus. 3,447,224, 6-3-69, Cl. 29-203.
Helda, Robert W.; and Lincoln, Milan L., to Motorola, Inc. Semiconductor devices including lead and plastic housing structure suitable for automated process construction. 3,444,441, 5-13-69, Cl. 317-234.
Helda, Robert W.; and Scofield, Paul E., to Motorola, Inc. Unit carrier. 3,427,550, 2-11-69, Cl. 339-36.
Heldenbrand, Laurance E. Vertically adjustable cattle chute. 3,434,732, 3-25-69, Cl. 280-43.17
Heldenbrand, Laurance E. Lower neck piece for cattle chute head gate. 3,473,518, 10-21-69, Cl. 119-98.
Heldenbrand, Russell C. Combination garbage can conveyer and rack. 3,423,102, 1-21-69, Cl. 280-47.19
Heldenbrand, Warren J. Foil container and machine for making foil containers. 3,446,169, 5-27-69, Cl. 113-120.
Helderman, James F., to U.S. Expansion Bolt Company. Means for mounting a rigid object at the tip end of a stud element. 3,474,700, 10-28-69, Cl. 85-10.
Heldt, Norman A., to Ex-Cell-O Corporation. Collet chuck for machining thin workpieces. 3,427,035, 2-11-69, Cl. 279-4.
Helein, Jean G.: *See*—
Rouxel, Roland; and Helein, Jean G.,3,480,765.
Helenberg, John: *See*—
Nelson, Norman A.; Tooley, Henry C.; Eilers, Barney A.; and Helenberg, John,3,463,449.
Helffer, Bernard Francois; Raisin, Jean-Pierre A.; and Voisin, Eugene J., to Institut Textile de France. Method and device for adjusting the tension of yard fed to a yarn-consuming machine. 3,451,603, 6-24-69, Cl. 226-1.
Helfferich, Friedrich G.; and Loth, Rene A., to Shell Oil Company. N-paraffin separation process. 3,451,924, 6-24-69, Cl. 208-310.
Helfgott, Theodore; and Webber, Paul J., to Ritter Pfaudler Corporation. Enclosed transport apparatus and process. 3,450,354, 6-17-69, Cl. 241-43.
Helfrey, Paul F.: *See*—
Hass, Robert H.; Helfrey, Paul F.; and Riddick, Frank C.,3,427,243.
Helfrich, Robert C., to General Electric Company. Dryer control. 3,436,838, 4-8-69, Cl. 34-45.
Helfrich, Wolfgang; and Schneider, William G., to Canadian Patents and Development Limited. Injection of electric charge carriers into non-conducting materials. 3,457,153, 7-22-69, Cl. 204-131.
Helgeland, Walter, to Sprague Electric Company. Resistor circuit network and method of making. 3,422,386, 1-14-69, Cl. 338-309.
Helgemeir, Heinrich. System and method of straightening a railway track. 3,482,527, 12-9-69, Cl. 104-8.
Helgert, Harold L.; and Conner, Jesse R., Jr., to Allegheny Ludlum Steel Corporation. Dark colored stainless steel surfaces. 3,437,532, 4-8-69, Cl. 148-6.14
Heli-Coil Corporation: *See*—
Brancato, Leo J., 3,435,526.
Downing, William D.; and Remond, Jean, 3,464,542.
Munro, John N., 3,457,979.

Setzler, Paul C., 3,474,701.
Helin, Arthur F., to Gulf Oil Corporation, mesne. Polymerization of ethylene in aqueous system. 3,436,363, 4-1-69, Cl. 260-29.6
Helin, Arthur F.: *See—*
Mantell, Gerald J.; Helin, Arthur F.; and Wutz, Adolf A.,3,459,698.
Helin, Elis Erik Vilhelm; and Lagerholm, Yngve Lennart, to Elektriska Svetsningsaktiebolaget. Method for the liquid disintegration of metal. 3,428,718, 2-18-69, Cl. 264-11.
Helion, Raymond: *See—*
Demeester, Jacques Emile; and Helion, Raymond,3,475,320.
Heliot, Maurice Joseph. Arrangement for grouping bags inside a container. 3,425,184, 2-4-69, Cl. 53-78.
Helitzer, Robert: *See—*
Gardner, David Milton; and Helitzer, Robert,3,467,661.
Helke, Robert C.; and Sturgeon, Wayne E., to Koehler-Dayton, Inc. Recirculating system for a self-contained sewage unit. 3,478,690, 11-18-69, Cl. 103-93.
Hell, August, to Beckman Instruments, Inc. Burner system with heated spray chamber for spectroscopic analysis. 3,438,711, 4-15-69, Cl. 356-36.
Hell, August, to Beckman Instruments, Inc. Laminar flow burner head. 3,469,794, 9-30-69, Cl. 239-597.
Hell, Hans Van, to Organon Inc. Process for the manufacture of highly purified gonadotropins. 3,457,346, 7-22-69, Cl. 424-100.
Hell, Rudolf, Dr.-Ing Kommanditgesellschaft: *See—*
Baldrich, Christoph, 3,441,672.
Hell, Rudolf, Dr.-Ing., Kommanditgesellschaft Kiel: *See—*
Keller, Hans, 3,462,546.
Helland, Henry C. Trailer with detachable rear wheels. 3,450,283, 6-17-69, Cl. 214-505.
Helland, Kristian L.: *See—*
Tregay, John L.; and Helland, Kristian L.,3,462,217.
Helland, Kristian, to Addressograph-Multigraph Corporation. Copying apparatus. 3,445,160, 5-20-69, Cl. 355-11.
Hellberg, Gustav Sigvald, to Wyatt, Maurice V. Machine for perforation of sheet material. 3,420,421, 1-7-69, Cl. 225-96.
Hellborg, Lars Ingvar, to Sobrefina S.A., mesne. Method of uniting a plurality of first objects with a corresponding number of second objects. 3,479,726, 11-25-69, Cl. 29-429.
Helle, Bernd-Heinz, to Baar, Heinz-Joachim. Double-ended socket coupling for stoneware pipes. 3,465,529, 9-9-69, Cl. 61-11.
Helle, Robert J. Rearview mirror with adjustment guides. 3,439,646, 4-22-69, Cl. 116-124.
Heller, Adam, to General Telephone & Electronics Laboratories, Incorporated. Liquid laser. 3,466,568, 9-9-69, Cl. 331-94.5
Heller, B., & Co.: *See—*
Wistreich, Hugo E., 3,467,527.
Heller, Ferdinand P., to Amchem Products Inc. Method for determining nitrite concentration in acidic accelerated phosphating solutions. 3,432,270, 3-11-69, Cl. 23-230.
Heller, Frederick L. Portable cover structure. 3,463,174, 8-26-69, Cl. 135-1.
Heller, G. K., Corporation: *See—*
Cushing, Prentice, Jr., 3,466,522.
Heller, Harold: *See—*
Corte, Herbert; and Heller, Harold,3,427,262.
Corte, Herbert; Netz, Otto; and Heller, Harold,3,425,990.
Heller, James Davis: *See—*
Blood, Alden Edward; Heller, James Davis; and Hagemeyer, Hugh J. Jr.,3,424,731.
Heller, Jurgen: *See—*
Von Ardenne, Manfred; Heller, Jurgen; Jager, Gerard; and Rumberg, Heinz,3,457,569.
Heller, Karl-Heinz: *See—*
Rudolph, Hans; Heller, Karl-Heinz; and Schnell, Hermann,3,450,612.
Heller, Lyman W.: *See—*
Gill, Henry L.; and Heller, Lyman W.,3,457,778.
Heller, Lyman W., to United States of America, Navy. Dynamic soil strain gage sensor and apparatus. 3,456,496, 7-22-69, Cl. 73-88.5
Heller, Maximilian. Bedsteads or the like. 3,460,169, 8-12-69, Cl. 5-131.
Heller, Ralph M., to Westinghouse Electric Corporation. Anti-fading error correction system. 3,423,729, 1-21-69, Cl. 340-146.1
Heller, Ralph M.; and Bowen, James R., to United States of America, Air Force. Error correcting and error detecting recording apparatus. 3,479,643, 11-18-69, Cl. 340-146.1
Heller, Rudolf, to Contraves AG. Stressed skin panel construction. 3,448,551, 6-10-69, Cl. 52-222.
Heller, William C.: *See—*
James, Albert L., 3,461,014.
Leatherman, Alfred F., 3,462,336.
Heller, William C., Jr. Art of thermally joining materials. 3,454,442, 7-8-69, Cl. 156-273.
Heller, William C., Jr.; and Davis, Donald W. Packaging material and the production thereof. 3,459,625, 8-5-69, Cl. 161-114.
Heller, William R.: *See—*
Bron, Walter E.; Dreyfus, Russell W.; and Heller, William R.,3,466,616.
Bron, Walter E.; Heller, William R.; and Welber, Benjamin,3,452,332.
Heller, William R., to International Business Machines Corporation. Electro-optical devices utilizing the stark-shift phenomenon. 3,460,884, 8-12-69, Cl. 350-160.
Hellerbach, Joseph, to Hoffmann-La Roche Inc. 4-Imidazolidones and processes for preparing same. 3,428,646, 2-18-69, Cl. 260-309.7
Hellerbach, Joseph; Stempel, Arthur; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Process for the preparation of 1,3-dihydro-2-oxo-5- aryl-2H-1,4 benzodiazepines bearing in the 3-position thereof, an esterified carboxy group. 3,475,415, 10-28-69, Cl. 260-239.3
Hellier, Lionel, Limited: *See—*
Cockbill, Michael Henry; and Main, James Thomas, 3,461,835.
Hellige, Fritz, & Co., G.m.b.H.: *See—*
Frank, Manfred H., 3,478,364.
Gemmer, Alfred, 3,460,542.
Nobis, Wilhelm, 3,463,934.
Nobis, Wilhelm, 3,464,004.
Schomber, Veit, 3,480,006.
Weber, Paul, 3,453,486.
Weber, Paul, 3,465,232.
Helling, Glenn. Tool mounting assembly. 3,441,091, 4-29-69, Cl. 172-801.
Hellinger, Esther: *See—*
Gassner, Saul Alexander; Hellinger, Esther; Katchalsky, Aharon; and Vofsi, David,3,420,790.
Hellingman, Gosen Joop: *See—*
Stoffel, Richard; and Hellingman, Gosen Joop,3,447,313.
Hellings, Richard E., to Cities Service Oil Company. Method for inhibiting the evaporation of volatile materials. 3,421,838, 1-14-69, Cl. 21-60.5
Hellman, David H.; and Warner, Joseph S., to Celanese Corporation. Colored double knit fabric material of cellulose organic acid ester having less than 0.29 free hydroxyl groups per anhydroglucose unit. 3,449,058, 6-10-69, Cl. 8-24.
Hellman, Erik, to Allmanna Svenska Elektriska Aktiebolaget. Control rods for nuclear reactors. 3,448,008, 6-3-69, Cl. 176-86.
Hellman, Robert R., to Westport Development & Manufacturing Company, Inc. Hermetically impervious switch. 3,431,378, 3-4-69, Cl. 200-168.
Hellmann, Reinhard K.: *See—*
Bailey, William F.; and Hellmann, Reinhard K.,3,423,673.
Hellmann, Reinhold: *See—*
Schmidt, Donald L.; and Hellmann, Reinhold,3,462,288.
Hellmers, Henry D., to Stauffer Chemical Company. Process for the production of dense sodium carbonate from trona and apparatus therefor. 3,477,808, 11-11-69, Cl. 23-63.
Hellmig, Ehrhard, to Agfa Aktiengesellschaft. Process and material for the preparation of masks for the reproduction of color images. 3,485,627, 12-23-69, Cl. 96-9.
Hellmig, Ehrhard: *See—*
Kleist, Walter; Moll, Franz; Kruck, Peter; and Hellmig, Ehrhard,3,436,217.
Hellmig, Erhard. Multicolor diffusing diaphragm. 3,485,626, 12-23-69, Cl. 96-5.
Hellmund, Rudolph L. Still-motion photographic apparatus. 3,432,228, 3-11-69, Cl. 352-169.
Hellmuth, Walter W., to Texaco, Inc. Lubricant containing polymeric product of alkenyl succinic anhydride and hydroxy containing piperazine derivative. 3,424,684, 1-28-69, Cl. 252-51.5
Hellmuth, Walter W.; Kivelevich, Doris; Dadura, James G.; and Morissette, Bertrand G., to Texaco Inc. Alkaline earth metal polyborate carbonate overbased alkaline earth metal sulfonate lube oil composition. 3,480,548, 11-25-69, Cl. 252-33.4
Hellstern, Ottmar. Steerable folding sled. 3,482,848, 12-9-69, Cl. 280-16.
Hellstrom, Harold Richard. Quick opening package. 3,472,367, 10-14-69, Cl. 206-56.
Hellstrom, Harold Richard. Irrigational systems. 3,479,825, 11-25-69, Cl. 61-13.
Hellstrom, Harold R. Quick-opening blister packets. 3,472,368, 10-14-69, Cl. 206-56.
Hellstrom, Melbourne J., to Westinghouse Electric Corporation. High input impedance amplifier. 3,457,519, 7-22-69, Cl. 330-24.
Hellstrom, Melbourne J., to Westinghouse Electric Corporation. Integrated circuit amplifier. 3,460,050, 8-5-69, Cl. 330-38.
Hellstrom, Nils Erik; and Ekholm, Rolf Leo, to Aktiebolaget Electrolux. Water closet tiltable seat. 3,458,872, 8-5-69, Cl. 4-237.
Hellsund, Borje Per Uno. Sound system for model railroad. 3,466,797, 9-16-69, Cl. 46-232.
Hellthaler, Arno: *See—*
Hermanson, Ronald O.; and Hellthaler, Arno,3,479,903.
Hellund, Emil J., to Hooker Chemical Corporation. Glow discharge production of oxides of chlorine. 3,429,793, 2-25-69, Cl. 204-157.1
Hellund, Emil J., to Hooker Chemical Corporation. Method of conducting chemical reactions in a glow discharge. 3,444,061, 5-13-69, Cl. 204-164.

Hellund, Emil J., to Hooker Chemical Corporation. Method of conducting chemical reactions in a glow discharge. 3,450,617, 6-17-69, Cl. 204-164.
Hellund, Emil J., to United States of America, Air Force, mesne. Method of synthesizing a high energy yielding solid material. 3,451,910, 6-24-69, Cl. 204-168.
Hellund, Emil J., to United States of America, Air Force, mesne. Apparatus for synthesizing a high energy yielding solid material. 3,451,919, 6-24-69, Cl. 204-312.
Hellwig, Katherine C.; and Schuman, Seymour C., to Hydrocarbon Research, Inc. Production of glycerol from saccharides. 3,471,580, 10-7-69, Cl. 260-635.
Hellwig, Langley R., to Columbian Carbon Company. Process for oligomerizing a conjugated aliphatic diolefin and ethylene. 3,420,904, 1-7-69, Cl. 260-666.
Hellwig, Waldemar: *See—*
Pahlitzsch, Gotthold; and Hellwig, Waldemar,3,420,539.
Hellyer, Arthur L.: *See—*
Tanner, De Loss J.,3,471,640.
Helm, Dietrich: *See—*
Janssen, Rainer; Helm, Dietrich; and Griebsch, Eugen,3,483,146.
Helm, Jack D.: *See—*
Conner, Joseph R.; Helm, Jack D.; and Anderson, Harold N.,3,460,313.
Helm, Mark W., to Hoover Company, The. Foam generator for scrubbing devices. 3,467,977, 9-23-69, Cl. 15-29.
Helma, Dennis E. Skylight. 3,440,779, 4-29-69, Cl. 52-97.
Helman, Donald L., to Robotron Corporation. Timer with half-cycle starting for current control in welding-type systems. 3,452,250, 6-24-69, Cl. 315-197.
Helmberger, Hermann; Dietz, Wolfgang; Gutberlet, Fritz; Hermann, Hans; and Wittmann, Hans, a/k/a Wittmann, Johan, to Consortium fur Elektrochemische Industrie G.m.b.H. Bistable boron semiconductor or switching device. 3,421,054, 1-7-69, Cl. 317-234.
Helmberger, Hermann: *See—*
Wirth, Heinz; Helmberger, Hermann; and Herrmann, Hans,3,434,803.
Helme Products, Inc.: *See—*
Wood, David Hugh, Jr.; Gibney, Grant Omer; and Smith, Richard, 3,476,567.
Helmer, Jerry D.: *See—*
Braley, Silas A., Jr.; and Helmer, Jerry D.,3,422,813.
Helmer, John C., to Varian Associates. Method and apparatus for measuring high vacuums. 3,435,334, 3-25-69, Cl. 324-33.
Helmer, Olaf: *See—*
Goldschmidt, Hans; Gordon, Theodore J.; and Helmer, Olaf,3,473,802.
Helmerich & Payne, Inc.: *See—*
McBrien, James H.; and Wright, Gerald T., 3,422,981.
McBrien, James H., 3,445,144.
Roberson, Seth T., Jr., 3,456,451.
Van Scoy, Davis A., 3,472,280.
Van Scoy, Davis A.; and Ford, Gadsen M., Jr., 3,473,550.
Helmick, B. J.; and Patterson, Harold Clyde. Adjustable spring-loaded supporting roller assembly for sliding doors and the like. 3,443,340, 5-13-69, Cl. 49-420.
Helmick, William E.; and Pray, Blaine O., to PPG Industries, Inc. Hydrogen peroxide decomposition control with alkaline earth metal carbanates. 3,437,599, 4-8-69, Cl. 252-186.
Helmig, Willem Hendrik Theodoor: *See—*
Reumerman, Theodorus; and Helmig, Willem Hendrik Theodoor,3,432,809.
Helming, Bernd: *See—*
Lellep, Otto George; and Helming, Bernd,3,436,060.
Helmke, George E., to Bell Telephone Laboratories, Incorporated. Method for preparing and applying a viscous fluid. 3,469,369, 9-30-69, Cl. 55-46.
Helms, Charles C.: *See—*
Marshall, Hamilton W., Jr.; and Helms, Charles C.,3,454,339.
Helms, Dieter: *See—*
Frohmuller, Klaus; and Helms, Dieter,3,483,407.
Trucks, Erich; Frohmuller, Klaus; and Helms, Dieter,3,459,978.
Helms, Harold E., to General Motors Corporation. Regenerator matrix. 3,478,816, 11-18-69, Cl. 165-9.
Helms, Jan, to General Packets, Inc. Compartmented package. 3,429,718, 2-25-69, Cl. 99-171.
Helms, Jan, to General Packets, Inc. Stacking filled envelopes for packaging. 3,456,423, 7-22-69, Cl. 53-143.
Helms, John D., to Texas Instruments, Incorporated. Method of manufacturing conductive pins and pellets. 3,436,821, 4-8-69, Cl. 29-630.
Helms, John D., to Texas Instruments, Incorporated. Method of making multilayer circuit boards. 3,470,612, 10-7-69, Cl. 29-593.
Helms, John D.; and Brown, Herbert L., Jr., to Texas Instruments, Incorporated. Welding method and apparatus. 3,462,577, 8-19-69, Cl. 219-78.
Helms, John D.; and Williams, Charles S., to Texas Instruments, Incorporated. Electronic method and apparatus utilizing photoemissive means for testing circuit board continuity. 3,436,651, 4-1-69, Cl. 324-51.
Helms, John F., to SKF Industries, Inc. Seal for bearing. 3,473,856, 10-21-69, Cl. 308-187.2
Helms, Thomas F., to Idex Corporation. Tension-compression tester machine. 3,464,261, 9-2-69, Cl. 73-96.
Helmus, Sydney S., to Lockheed Aircraft Corporation. Sealing system for underwater installation. 3,485,056, 12-23-69, Cl. 61-69.
Helmuth, James G., to Chadwick-Helmuth Electronics, Inc. Multiple shaker control system. 3,477,281, 11-11-69, Cl. 73-71.6
Helrigel, Robert A.: *See—*
Burke, Harry T.; Helrigel, Robert A.; and Lewis, James A.,3,483,726.
Kraft, Derald Henry; Helrigel, Robert Arthur; and Suntheimer, Robert Gordon,3,450,038.
Helrigel, Robert Arthur, to Bliss, E. W., Company. Flywheel assembly. 3,479,905, 11-25-69, Cl. 74-572.
Helsing, Knud J., to Victor Products Corporation. Means for dispensing single containers from multiple columns in multiple magazines. 3,438,545, 4-15-69, Cl. 221-67.
Helsley, Grover C., to Robins, A. H., Company, Incorporated. Certain 3-ureidopyrrolidines. 3,424,762, 1-28-69, Cl. 260-326.3
Helsley, Grover C., to Robins, A. H., Company, Incorporated. Pharmaceutical compositions and methods of controlling cardiac arrhythmias with N- substituted phthalimide compounds. 3,429,968, 2-25-69, Cl. 424-274.
Helsley, Grover C.; and Lunsford, Carl D., to Robins, A. H., Company, Incorporated. 3-Ureidopyrrolidines. 3,424,761, 1-28-69, Cl. 260-326.3
Helsley, Grover C.; and Welstead, William J., Jr., to Robins, A. H., Company, Incorporated. 3-ureidopyrrolidines. 3,424,760, 1-28-69, Cl. 260-326.3
Helsley, Grover C.: *See—*
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr.,3,458,635.
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr.,3,479,370.
Helszajn, Joseph: *See—*
Hines, Marion E.; and Helszajn, Joseph,3,457,525.
Helt, Wilson G.; and Smith, Jack K., to Westinghouse Electric Corporation. Direct view storage system. 3,470,414, 9-30-69, Cl. 315-12.
Helterline, Leo L., Jr.; and Wootton, Gerald R., to Benrus Corporation. System for maintaining oscillations in an electric timing mechanism having an oscillatory element. 3,451,210, 6-24-69, Cl. 58-26.
Helton, Eugene L., to Caterpillar Tractor Company. Lock mechanism for telescopic members. 3,463,521, 8-26-69, Cl. 287-100.
Heltzel, Carl J. Concrete reinforcing steel handling and placing device. 3,443,495, 5-13-69, Cl. 94-39.
Helvoigt, Kenneth. Hand-held gas-burning dental tool. 3,432,249, 3-11-69, Cl. 431-252.
Helwig, Halsey R., to American Flange & Manufacturing Co., Inc. Plastic closure flange assembly. 3,437,226, 4-8-69, Cl. 220-39.
Hembd, William H.; and Harrand, James H., to Leighton, Jack R. Device for dampening dial and indicator oscillations in an instrument for measuring angular body movements. 3,429,052, 2-25-69, Cl. 33-220.
Hembree, Oscar O., to Hocker, Talmage. Liquid level control. 3,421,538, 1-14-69, Cl. 137-394.
Hemens, James Frederick, to Teleflex Products Limited. Single handle control mechanisms. 3,438,468, 4-15-69, Cl. 192-0.096
Hemfort, Heinrich, Sr., to Westfalia Separator A.G. Centrifuges for the separation of liquid mixtures. 3,460,751, 8-12-69, Cl. 233-21.
Hemfort, Heinrich, to Westfalia Separator A.G. Automatic desludging apparatus. 3,448,919, 6-10-69, Cl. 233-20.
Hemfort, Heinrich, to Westfalia Separator A.G. Sludge separator with automatic control. 3,454,216, 7-8-69, Cl. 233-20.
Hemion, Roger H.: *See—*
Clark, John M., Jr.; Brown, Robinson W.; and Hemion, Roger H.,3,461,577.
Hemisphere Food Products Corporation: *See—*
Brown, James Rankin, 3,467,230.
Hemmann, Helmut: *See—*
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,432,642.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,435,754.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,435,755.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,450,027.
Hemmenway, Stuart F.; and Rosenberry, George M., Jr., to General Electric Company. Regulator sensing circuit for alternating-current generator. 3,436,633, 4-1-69, Cl. 318-145.
Hemmerich, Hans: *See—*
Doose, Conrad; Hemmerich, Hans; and Sassin, Wolfgang,3,466,886.
Hemmerling, Manfred; and Howaldt, Jurgen, to Fernseh GmbH. Method and system of electronic editing of video recordings on magnetic tape. 3,427,398, 2-11-69, Cl. 178-6.6
Hemmie, Gerd; and Arens, Egidius, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for measuring the direction of incident waves. 3,453,589, 7-1-69, Cl. 340-6.
Hemmie, Gerd: *See—*
Leisterer, Reinhard W.; and Hemmie, Gerd,3,452,326.

Hemming, Charles B., to U.S. Plywood-Champion Papers Inc. Form boards and coatings therefor. 3,468,690, 9-23-69, Cl. 117-5.1
Hemming, David Henry; and Davenport, Francis Robert, to Cigarette Components Limited. Apparatus for injecting tobacco smoke modifying material into multiple length filter rods. 3,485,208, 12-23-69, Cl. 118-401.
Hemminger, Charles E., to Esso Research and Engineering Company. Fluidized retorting of oil shale. 3,484,364, 12-16-69, Cl. 208-11.
Hempel, Herbert W.; and Hill, Forest G., to Marsh Stencil Machine Company. Dispenser control support. 3,429,492, 2-25-69, Cl. 226-89.
Hempel, Reinhard: *See*—
Priewe, Hans; Rahtz, Dieter; Hempel, Reinhard; and Richter, Helmer,3,423,413.
Hempel's Marine Paints, Inc.:*See*—
Chandler, John W., 3,442,824.
Hemphill, Dean P.: *See*—
Broussard, Douglas E.; and Hemphill, Dean P.,3,466,882.
Broussard, Douglas E.; Hemphill, Dean P.; Bolling, Thomas J., Jr.; and Roach, Erskine E.,3,463,518.
Richardson, Thomas W. G.; Johnson, Glenn D.; and Hemphill, Dean P.,3,431,739.
Hemphill, James E., to Fisher Governor Company. Butterfly valve. 3,485,476, 12-23-69, Cl. 251-283.
Hemphill, John M., to Armstrong Cork Company. Fibrous panel and method of treating a fibrous panel. 3,473,941, 10-21-69, Cl. 117-5.5
Hemphill, Kent W., to Xerox Corporation. Character generator. 3,472,136, 10-14-69, Cl. 95-1.1
Hemphill, Thomas E.; and Henderson, Billy J. Push cart. 3,456,959, 7-22-69, Cl. 280-47.3
Hemprich, Horst J.; Schneider, Walter F.; Spiro, Hans W.; and Zehr, Joachim O., to International Business Machines Corporation. Line voltage fluctuation insensitive detector for phase failures on three phase transformers. 3,479,583, 11-18-69, Cl. 324-51.
Hempstead, Charles F.: *See*—
Bridges, Thomas J.; and Hempstead, Charles F.,3,431,489.
Hemstreet, Harold S., to Singer General Precision, Inc. Image alteration method. 3,485,554, 12-23-69, Cl. 350-181.
Hemstreet, Russell A.; and Taylor, Alfred H., to Air Reduction Company, Incorporated. Apparatus for production of O_3 F_2. 3,437,582, 4-8-69, Cl. 204-312.
Hemus, Robert B., to Girling Limited. Seals for hydraulic apparatus. 3,432,010, 3-11-69, Cl. 188-152.
Hencey, Thomas R., Jr.: *See*—
Cady, Albert B., Jr.; and Hencey, Thomas R., Jr.,3,473,501.
Hench, Hans Heinrich Wilhelm. Apparatus for producing strands or granules from liquid material. 3,436,792, 4-8-69, Cl. 18-8.
Henchert, John, to Continental Can Company, Inc. Method for forming a rivet and attaching a pull tab therewith. 3,440,713, 4-29-69, Cl. 29-509.
Henchert, John, to Continental Can Company, Inc. Plastic dispensing nozzle with captive cap. 3,462,048, 8-19-69, Cl. 222-546.
Hencke, William R.: *See*—
Greene, John H.; Hencke, William R.; Dowden, Clarence L., Jr.; and Pitman, Herbert J.,3,475,335.
Henckel, Ekkehard; and Von Portatius, Hans, to Chemische Werke Huls Aktiengesellschaft. Process for the production of asymmetrical formals. 3,435,077, 3-25-69, Cl. 260-611.
Hender, Thomas A.; and Cushman, James E., to Friden, Inc. Silent ratchet. 3,434,371, 3-25-69, Cl. 74-576.
Hendershot, Robert V., to Candy Mfg. Co., Inc. Phase time variator. 3,465,269, 9-2-69, Cl. 335-69.
Henderson, Albert J.; Patterson, James R.; and Hahn, Raymond A., to Neville Chemical Company. Paving compositions. 3,422,053, 1-14-69, Cl. 260-33.6
Henderson, Bennett M., to Shell Oil Company. Engine lubricating compositions. 3,438,897, 4-15-69, Cl. 252-32.7
Henderson, Bennett M.; Ratner, Hyman; and Wittner, Eugene, to Shell Oil Company. Lubicant containing mixture of low and high molecular weight sulfonates. 3,480,550, 11-25-69, Cl. 252-33.
Henderson, Billie D., to Beckman Instruments, Inc. Point illumination and scanning mechanism for microscopes. 3,460,880, 8-12-69, Cl. 350-6.
Henderson, Billy J.: *See*—
Hemphill, Thomas E.; and Henderson, Billy J.,3,456,959.
Henderson, Brian Sydney, to Lucas, Joseph, (Industries) Limited. Solenoid having two-part sintered body and integral pole piece. 3,461,412, 8-12-69, Cl. 335-281.
Henderson, Bruce: *See*—
White, Darrell N., 3,469,356.
Henderson Clay Products, Inc.: *See*—
Lachmann, Peter F. J., 3,422,793.
Henderson, Courtland M., to Monsanto Research Corporation. Exothermic extrusion lubricants. 3,455,132, 7-15-69, Cl. 72-42.
Henderson, Courtland M.; Beaver, Emil R., Jr.; and Reitsma, Louis J., Jr., to Monsanto Research Corporation. Lead-telluride with cesium chloride and segmented thermoelectric elements. 3,467,555, 9-16-69, Cl. 136-205.
Henderson, Courtland M.; and Janowiecki, Richard J., to Monsanto Research Corporation. Thermoelement made by plasma spraying. 3,485,680, 12-23-69, Cl. 136-208.
Henderson, David W.; and Raley, John H., to Shell Oil Company. Catalytic dehydrogenation of paraffins. 3,439,061, 4-15-69, Cl. 260-683.3
Henderson, Donald S.: *See*—
Ciapetta, Frank G.; Henderson, Donald S.; and Baust, George A.,3,471,265.
Briggs, Warren Stanley; Stover, William Albert; and Henderson, Donald Stuart,3,455,843.
Henderson, Dorothy: *See*—
Marvin, John; and Henderson, Thomas Jr.,3,460,192.
Henderson, Eddie M.; and Stephen, Charles G., to Burroughs Corporation. Safeguard character indexing mechanism. 3,446,140, 5-27-69, Cl. 101-93.
Henderson, Eulas W.; and Dollinger, Robert E., to Phillips Petroleum Company. Method for producing carbon black. 3,486,853, 12-30-69, Cl. 23-209.6
Henderson, Frank D.; and Kryske, Leon E., to Hughes Aircraft Company. Device for and the method of charging batteries. 3,445,744, 5-20-69, Cl. 320-6.
Henderson, Harold P. Pipe nipple. 3,480,299, 11-25-69, Cl. 285-4.
Henderson, Harry E. Opening device for pop-top can. 3,459,075, 8-5-69, Cl. 81-3.34
Henderson, Homer I. Pulsation suppressor. 3,430,659, 3-4-69, Cl. 138-26.
Henderson, John Frederick: *See*—
Scherf, Gerhard Wolfgang Helmut; and Henderson, John Frederick,3,431,245.
Scherf, Gerhard Wolfgang Helmut; and Henderson, John Frederick,3,435,014.
Henderson, John T.: *See*—
West, William B.; and Henderson, John T.,3,445,329.
Henderson, Joseph G.: *See*—
Matthews, Roy B.; and Henderson, Joseph G.,3,452,200.
Henderson, Joseph H. Air drying unit. 3,453,809, 7-8-69, Cl. 55-269.
Henderson, Joseph H. Air dryer and bypass structure therefor. 3,465,503, 9-9-69, Cl. 55-163.
Henderson, Kenneth James; and Wilson, Donald, to Southern Instruments Limited. Device for dispensing paper or like material. 3,469,797, 9-30-69, Cl. 242-54.
Henderson, Leonard L. Bridge for measuring moisture content having field effect transistor in one arm with gate electrode resistively connected through test liquid. 3,479,590, 11-18-69, Cl. 324-65.
Henderson, Leslie; and Hasson, Leslie, to Clarke, Chapman & Co. Limited. Internal tube arc welder. 3,440,393, 4-22-69, Cl. 219-125.
Henderson, Lionel A., to Standard Oil Company (Indiana). Amine addition salts of nitro-carboxy- alkali metal phenolates. 3,420,874, 1-7-69, Cl. 260-501.14
Henderson Manufacturing Co., Inc.: *See*—
Epp, David A., 3,455,533.
Henderson, Martin C., to Bunker-Ramo Corporation, The. Display apparatus including means for varying line width. 3,440,480, 4-22-69, Cl. 315-18.
Henderson, Martin C., to Bunker-Ramo Corporation, The. Display apparatus. 3,483,547, 12-9-69, Cl. 340-324.
Henderson, Martin C.; and Higbee, John E., to Bunker-Ramo Corporation, The. Cathode ray tube protection apparatus. 3,437,872, 4-8-69, Cl. 315-20.
Henderson, Martin C.: *See*—
Higbee, John E.; and Henderson, Martin C.,3,465,200.
Henderson, Norman Leo; and Elowe, Louis Nasir, to American Cyanamid Company. Sustained release encapsulated formula. 3,427,378, 2-11-69, Cl. 424-14.
Henderson, Paul D., to Superior Electric Company, The. Digitally operated electrohydraulic power system. 3,457,836, 7-29-69, Cl. 91-380.
Henderson, Paul D., to Superior Electric Company, The. Tap changing mechanism with Scotch yoke actuator. 3,462,563, 8-19-69, Cl. 200-11.
Henderson, Rex E. Tripod stabilizer. 3,463,437, 8-26-69, Cl. 248-346.
Henderson, Robert Bruce, to Voit, W. J., Rubber Corporation. Athletic game ball. 3,475,027, 10-28-69, Cl. 273-65.
Henderson, Robert John: *See*—
Swanson, Emery Carlton; Henderson, Robert John; and Kyle, Robert Carlton,3,487,064.
Henderson, Robert M.; and Zechlin, Richard, to Fairbanks Morse Inc. Multiphase power switching circuit. 3,448,294, 6-3-69, Cl. 307-252.
Henderson, Robert M.; and Zechlin, Richard, to Fairbanks Morse Inc. Comparing circuit. 3,487,365, 12-30-69, Cl. 340-146.2
Henderson, Robert M.: *See*—
Miller, Lowell E.; and Henderson, Robert M.,3,485,339.
Henderson, Stanford A., to Gomco Surgical Manufacturing Corporation. Valve construction. 3,421,534, 1-14-69, Cl. 137-199.
Henderson, Stanford A., to Gomco Surgical Manufacturing Corporation. Lubricant pump. 3,454,138, 7-8-69, Cl. 184-26.

Henderson, Thomas Jr.: *See*—
Marvin, John; and Henderson, Thomas Jr.,3,460,192.
Henderson, William Dick. Liquid metering pump. 3,473,697, 10-21-69, Cl. 222-75.
Henderson, Zack L., to Monsanto Company. Anchoring system for synthetic surface materials. 3,433,137, 3-18-69, Cl. 94-7.
Hendley, Dennis Alfred, to Decca Limited. Radio transmitter means utilizing squaring amplification limiting and AGC. 3,474,340, 10-21-69, Cl. 325-187.
Hendley, Dennis Alfred: *See*—
O'Brien, William Joseph; and Hendley, Dennis Alfred,3,465,340.
Hendon Construction Company: *See*—
Schwarz, Julius; Dokes, George E.; Von Bradsky, Otokar; and Goodman, Sidney J., 3,479,780.
Hendricks, Edward G.: *See*—
Barth, Bruce P.; and Hendricks, Edward G.,3,446,654.
Hendricks, Edward G., to Union Carbide Corporation. Mixtures of organopolysiloxanes and polyarylene polyethers. 3,423,479, 1-21-69, Cl. 260-824.
Hendricks, George Donald, to Bliss, E. W., Company. Traffic controller timing circuit. 3,430,069, 2-25-69, Cl. 307-246.
Hendricks, Howard F., to Garrett Corporation, The. Electronic controls for high-speed machinery. 3,422,619, 1-21-69, Cl. 60-39.14
Hendricks, Laurel A. Sanitary napkin. 3,454,008, 7-8-69, Cl. 128-290.
Hendricks, Laurel A. Disposable panty shield. 3,463,154, 8-26-69, Cl. 128-287.
Hendricks, Udo Winfried; Tamer, Ergun; Quaedvlieg, Mathieu; Klapper, Hans; Boehmke, Gunther; and Schneider, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Process for the continuous coloring of fibres made from natural or synthetic polyamides or of materials containing fibres of this type. 3,451,762, 6-24-69, Cl. 8-39.
Hendricks, William E. Three-wheeled velocipede. 3,429,584, 2-25-69, Cl. 280-261.
Hendricks, William W.; and Freeman, Lawrence M., to Henricks, Grace H., by court decree, owner of the estate of said Hendricks, William W., dec'd, and said Freeman, Lawrence M., assors to Space Control Corporation. Mechanism for moving a load supporting member on a fork lift truck. 3,472,408, 10-14-69, Cl. 214-674.
Hendricks, Willis R.: *See*—
Luftglass, Murray A.; and Hendricks, Willis R.,3,459,831.
Nyberg, David D.; and Hendricks, Willis R.,3,424,649.
Hendrickson, Allen L., to Hendrickson, Olga T. Method and apparatus for installing new packing on a propeller shaft. 3,432,172, 3-11-69, Cl. 277-1.
Hendrickson, Arthur H.: *See*—
Padgett, Edward D.; Hendrickson, Arthur H.; and Anagnost, Christ W.,3,450,895.
Hendrickson, George H., to United States Steel Corporation. Apparatus for replacing rotatable members. 3,479,715, 11-25-69, Cl. 29-200.
Hendrickson, Howard Doerle, to Watts Regulator Co. Fluid drainage. 3,485,260, 12-23-69, Cl. 137-204.
Hendrickson, Melvin C., to Zenith Radio Corporation. Correlation testing arrangement for a subscription television receiver. 3,466,385, 9-9-69, Cl. 178-5.1
Hendrickson, Olga T.: *See*—
Hendrickson, Allen L., 3,432,172.
Hendrickson, Otto. Angle head extension for wrenches. 3,430,510, 3-4-69, Cl. 74-425.
Hendrickson, Otto. Adjustably controlled saber saw. 3,478,786, 11-18-69, Cl. 143-68.
Hendrickson, Richard F.; and King, Roderick V., to Sterling Seal Company. Closure for a container. 3,421,651, 1-14-69, Cl. 220-42.
Hendrickson, Richard F.; and King, Roderick V., to Sterling Seal Company. Closure for a container. 3,438,537, 4-15-69, Cl. 220-27.
Hendrickson, Richard F.; and King, Roderick V., to Sterling Seal Company. Closure for a container. 3,439,830, 4-22-69, Cl. 220-27.
Hendrickson, Richard F.; and King, Roderick V., to Sterling Seal Company. Tamper proof closure. 3,452,894, 7-1-69, Cl. 220-27.
Hendrickson, Richard F.; and King, Roderick V., to Sterling Seal Company. Frangible closure for a container. 3,459,322, 8-5-69, Cl. 220-27.
Hendrickson, Richard F.; and King, Roderick V., to Sterling Seal Company. Screw threaded closure for a container. 3,467,272, 9-16-69, Cl. 220-39.
Hendrickson, Thomas A.; and Croll, Donald C., to International Business Machines Corporation. Card verifier. 3,464,265, 9-2-69, Cl. 73-156.
Hendrickson, Thomas A.; and Stahl, William L., to International Business Machines Corporation. Record card machine. 3,481,195, 12-2-69, Cl. 73-156.
Hendrickson, Thomas A.; Williams, William J.; and Stahl, William L., to Rockwell-Standard Company, mesne International Business Machines Corporation. Vehicle brake actuator Record card machine. 3,481,252, 12-2-69, Cl. 73-156.
Hendrickx , Franciscus Joannes Julia: *See*—
Lens, Georges Xavier; van Brabant, Jozef Maria; and Hendrickx , Franciscus Joannes Julia,3,429,460.
Hendrickx, Andreas Joseph Johannes; and Huibers, Bernardus Hubertus, to Chemische Fabriek L. van der Grinten N.V. Diazonium compounds and diazotype materials containing them. 3,442,650, 5-6-69, Cl. 96-91.
Hendrickx, Andreas Joseph Johannes; and Huibers, Bernardus Hubertus, to Chemische Fabriek L. van der Grinten N.V. Diazonium compounds and diazotype materials containing them. 3,442,651, 5-6-69, Cl. 96-91.
Hendricx, Edwin Frans: *See*—
Willems, Jozef; Hendricx, Edwin Frans; Thiers, Robrecht Julius; and Onghena, Jozef,3,443,951.
Hendricx, Serge; and Loots, Francois Pierre, to Gevaert Photo-Producten N.V. Magnetic recording material. 3,470,021, 9-30-69, Cl. 117-239.
Hendrie, George S.: *See*—
Poris, Harry; and Hendrie, George S.,3,470,290.
Hendrik, Russell C.; Boskovich, Boris; and Lindahl, John H., to Honeywell Inc. Automatic control apparatus for aircraft. 3,456,172, 7-15-69, Cl. 318-18.
Hendriks, Aalbert J.: *See*—
Jacobs, Jacques M. H.; Hermsen, Andreas A. M.; Hendriks, Aalbert J.; and Teeling, Gerhardus A. M.,3,423,076.
Hendriks, Adrianus Anthonius Maria; Klopping, Carel Peter; Van Hout, Franciscus Adrianus; and Sanders, Petrus Wilhelmus, to U.S. Philips Corporation, mesne. Digit tube with the characters secured only at one end. 3,473,068, 10-14-69, Cl. 313-109.5
Hendriks, Rudolf, to N.V. Koninklijke Machinefabriek Stork. Turbine. 3,479,124, 11-18-69, Cl. 415-159.
Hendrix, Arnett: *See*—
Megar, George H.; and Hendrix, Arnett,3,428,430.
Hendrix, John W., Jr.; and Young, Charles W., to Monsanto Company. Recorder automatic zero drift correction. 3,454,878, 7-8-69, Cl. 324-99.
Hendrix, Lloyd T., to Cosmodyne, Inc. Refrigerated crystallizer system. 3,486,848, 12-30-69, Cl. 23-121.
Hendrix, Warren P.: *See*—
Davis, Dearl Keith; Hendrix, Warren P.; and Orr, Clyde, Jr.,3,438,264.
Orr, Clyde, Jr.; and Hendrix, Warren P.,3,458,974.
Hendrix, Warren P.; and Orr, Clyde, Jr., to Micromeritics Instrument Corporation. Surface area apparatus and method. 3,464,273, 9-2-69, Cl. 73-432.
Hendrixson, Charles D.; and Henry, Robert L., to Cincinnati Milling Machine Co., The. Optical aligning device for parts of a machine. 3,471,241, 10-7-69, Cl. 356-172.
Hendry, C. J., Company: *See*—
Adams, Leland D., Jr., 3,422,829.
Hendry, Glenn G., Jr., to Fiber Industries, Inc. Filament production for synthetic linear polymers. 3,435,108, 3-25-69, Cl. 264-176.
Hendry, James W., to Borg-Warner Corporation. Mechanical heating device. 3,425,673, 2-4-69, Cl. 263-29.
Hendry, Robert B. Electrical contact test tool. 3,425,271, 2-4-69, Cl. 73-141.
Hendus, Hans: *See*—
Martin, Wolfgang; Linge, Hermann; Hendus, Hans; and Wenger, Friedrich,3,434,278.
Henebry, John P.; and Stineback, Earl E., to North American Aluminum Corporation. Stadium bench. 3,482,874, 12-9-69, Cl. 297-445.
Henebry, Thomas F. Memory device for controlling and/or timing an operation to be performed on a work piece. 3,475,987, 11-4-69, Cl. 74-568.
Henebry, William M.: *See*—
Rasiel, Amram; and Henebry, William M.,3,421,113.
Rasiel, Amram; and Henebry, William M.,3,441,749.
Rasiel, Amram; and Henebry, William M.,3,484,624.
Henegar, Hubert B.; and Nelson, Robert A., to Bendix Corporation, The. Numerical control system having plural synchronized drives. 3,460,012, 8-5-69, Cl. 318-18.
Henes, Martin E., to Litton Business Systems, Inc. Division terminating mechanism. 3,477,640, 11-11-69, Cl. 235-63.
Henf, George, to Singer-General Precision, Inc. Optical correlation navigation system. 3,457,013, 7-22-69, Cl. 356-71.
Hengeveld, Frank W.: *See*—
Jackson, William M.; and Hengeveld, Frank W.,3,480,555.
Hengst, Johannes Hubertus Theodorus: *See*—
Haaijman, Pieter Willem; Wijnen, Marinus Dirk; and Hengst, Johannes Hubertus Theodorus,3,434,886.
Hengstler, Heinz: *See*—
Faude, Rudolf; Haller, Willi; and Hengstler, Heinz,3,436,530.
Hengstler, J. K. G., Zahlerfabrik, Aldingen, Kreis Tuttlingen: *See*—
Vogel, Manfred Georg Roland; and Pfeiffer, Horst, 3,451,620.
Hengstler, J., K.G.: *See*—
Irion, Reinhard; Kratt, Kurt Wilhelm; and Fischer, Winfried, 3,447,744.

Heninger, Francine L.; and Weight, Ormon R. Percussion music teaching instrument. 3,483,786, 12-16-69, Cl. 84-470.
Henke, Alfred M.: *See—*
Giannetti, Joseph P.; Henke, Alfred M.; Sebulsky, Raynor T.; and Starnes, William C.,3,466,250.
Henke, Alfred M.; Luzar, Ronald V.; and McKinney, Joel D., to Gulf Research & Development Company. Hydrodesulfurization of naphthas. 3,487,011, 12-30-69, Cl. 208-216.
Henke, Elmer J.; and Joseph, Gerald L., to Behlen Manufacturing Company. Liquid feeder device. 3,441,004, 4-29-69, Cl. 119-72.
Henke, Oskar; and Lukas, Alfred, to Siemens Aktiengesellschaft. Apparatus arrangement for electrical communication equipment, particularly directional radio equipment. 3,453,497, 7-1-69, Cl. 317-99.
Henke, Russell W., to Jordan Controls, Inc. Fluid drive mechanism. 3,429,229, 2-25-69, Cl. 91-87.
Henkel & Cie G.m.b.H.: *See—*
Baumann, Horst; and Stein, Werner, 3,423,453.
Budnowski, Manfred, 3,446,814.
Dohr, Roman; and Kaiser, Wilhelm Jakob, 3,449,430.
Egle, Gert, 3,481,959.
Fischer, Hannes; and Stein, Werner, 3,436,426.
Gartner, Jurgen, 3,462,454.
Heins, Arnold, 3,423,270.
Heins, Arnold, 3,425,886.
Kasperl, Herbert; Tischbirek, Gunther; and Worms, Karl-Heinz, 3,463,737.
Kleinschmidt, Peter; and Budnowski, Manfred, 3,424,721.
Klesper, Ernst; and Zoebelein, Hans, 3,449,370.
Krause, Horst-Jurgen, 3,484,474.
Mahall, Karl, 3,475,112.
Reese, Gunter; and Felletschin, Gunter, 3,429,673.
Rehnelt, Kurt; and Voss, Manfred, 3,458,465.
Saran, Herbert; and Budnowski, Manfred, 3,459,713.
Saran, Herbert, 3,479,302.
Scherff, Werner, 3,453,261.
Schiefer, Joachim; and Dohr, Manfred, 3,441,507.
Schiefer, Joachim; and Dohr, Manfred, 3,459,665.
Schmadel, Edmund; and Gotte, Ernst, 3,422,020.
Schutt, Hartwig, 3,444,204.
Stein, Werner; Baumann, Horst; and Voss, Manfred, 3,424,693.
Stein, Werner; Baumann, Horst; and Voss, Manfred, 3,424,694.
Stein, Werner; and Kittl, Hans, 3,424,770.
Stein, Werner; and Umbach, Wilfried, 3,436,425.
Stein, Werner; Weiss, Herbert; and Koch, Otto, 3,452,064.
Weichbrodt, Maria; and Willmund, Wolf-Dieter, 3,459,666.
Wulff, Carl; Stein, Werner; Koch, Otto; and Weiss, Herbert, 3,485,856.
Henkel, Edward J. Article transfer apparatus. 3,430,782, 3-4-69, Cl. 214-1.
Henkel, Eugen G.: *See—*
Weinschenk, Albert, 3,448,472.
Henkel, Ferdinand J., to Lamina, Inc. Composite fluid pressure pump or motor casing body and method of making the same. 3,477,379, 11-11-69, Cl. 103-216.
Henkel, Henry. Razor blade shave counter. 3,476,077, 11-4-69, Cl. 116-133.
Henkel, Michael A.: *See—*
Harrington, Richard H.; and Henkel, Michael A.,3,433,153.
Henkel, Neville T.: *See—*
Scharer, Herman W., 3,426,610.
Henkel, Neville T.; and Scharer, Herman W. Swager for metallic rings. 3,461,712, 8-19-69, Cl. 72-402.
Henkel, Neville T.; and Scharer, Herman W. Control mechanism for reversible motor. 3,473,441, 10-21-69, Cl. 91-361.
Henkel, Paul: *See—*
Schafer, Heinrich; Henkel, Paul; and Weist, Martin,3,451,766.
Henkels and McCoy Inc.: *See—*
Kinnan, Frank R., 3,421,329.
Kinnan, Frank R., 3,431,741.
Henker, Heinz, to Siemens Aktiengesellschaft. Epitatic vapor coating apparatus. 3,461,836, 8-19-69, Cl. 118-48.
Henker, Heinz, to Siemens Aktiengesellschaft. Method for producing a structure composed of mutually insulated semiconductor regions for integrated circuits. 3,477,885, 11-11-69, Cl. 148-174.
Henkes, Hans: *See—*
van Stratum, Antonius Johannes Alberta; Zalm, Pieter; Verest, Franciscus Johannes; and Henkes, Hans,3,458,749.
Henkler, Herbert; Wilhelm, Hans; Floss, Josef Georg; Strehler, Hugo; and Brodt, Rudolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Photopolymerizable compositions and their use. 3,486,903, 12-30-69, Cl. 96-115.
Henkler, Herbert: *See—*
Wilhelm, Hans; Henkler, Herbert; and Floss, Josef Georg,3,486,891.
Henle, Robert A., to International Business Machines Corporation. Feedback current switch memory cell. 3,441,912, 4-29-69, Cl. 340-173.
Henle, Robert A.; and Prier, Wilbur D., to International Business Machines Corporation. Feedback current switch memory element. 3,449,728, 6-10-69, Cl. 340-173.
Henle, Rudolf; and Scheufler, Roland, to Schmidt, Karl G.m.b.H. Method of forming a bearing. 3,430,322, 3-4-69, Cl. 29-149.5
Henley, Jack C. Ultrasonic silencer for jet engines. 3,455,413, 7-15-69, Cl. 181-51.
Henley, John W., to Eagle-Picher Industries, Inc. Universal coupling. 3,451,228, 6-24-69, Cl. 64-16.
Henley, Virgil E., to General Tire & Rubber Company, The. Conveyer length adjustment mechanism. 3,444,030, 5-13-69, Cl. 156-507.
Henley, Virgil E., to General Tire & Rubber Company, The. Tire building machine. 3,475,254, 10-28-69, Cl. 156-401.
Henley, Virgil E., to General Tire & Rubber Company, The. Tire building drum. 3,476,633, 11-4-69, Cl. 156-415.
Henn, Erwin; and Himm, Dieter, to Messer Griesheim G.m.b.H. Flame scarfing unit. 3,446,441, 5-27-69, Cl. 239-556.
Henn, William, to RCA Corporation. Stepping switch employing chain of logic gates having means for locking a gate in a given state. 3,450,897, 6-17-69, Cl. 307-223.
Henn, William, to RCA Corporation. Logic circuit. 3,457,434, 7-22-69, Cl. 307-203.
Henneberger, Friedrich; and Gebhardt, Fritz, to VEB Chemiekombinat Bitterfeld, mesne. Production of iron oxide for oxidic sintered. 3,469,942, 9-30-69, Cl. 23-200.
Hennecke, Rudolf; Brander, Arthur; and Georgi, Eugen. Mechanism for varying the phase relation of two eccentric weights. 3,465,599, 9-9-69, Cl. 74-61.
Hennek, Hubert: *See—*
Schrader, Richard; Grunwoldt, Wilfried; Hennek, Hubert; Kneschke, Gotz; and Reinhardt, Helmut,3,464,790.
Hennells, Ransom J., to Hennells, W. E., Company, Inc. Hydraulic and pneumatic shock absorber and spring device. 3,445,103, 5-20-69, Cl. 267-64.
Hennells, W. E., Company, Inc.: *See—*
Hennells, Ransom J., 3,445,103.
Hennemann, Raymond G.: *See—*
Simpson, Donald D.; and Hennemann, Raymond G.,3,484,084.
Hennen, John Joseph, to Deere & Company. Adjustable cutterhead for a forage harvester. 3,452,796, 7-1-69, Cl. 146-242.
Hennen, Roy Erving, to Globe-Union Inc. Battery with improved vent. 3,466,199, 9-9-69, Cl. 136-177.
Hennen, Roy Erving: *See—*
Halsall, Vincent Michael; and Hennen, Roy Erving,3,443,995.
Hennessey, Charles A.: *See—*
Daughenbaugh, Raymond S.; Hennessey, Charles A.; Holmes, Francis M.; and Lager, Samuel E.,3,449,747.
Hennessey, Darrell F.; and Rooks, Howard B., to Collins Radio Company. Squelch tail preventing circuit. 3,430,147, 2-25-69, Cl. 325-402.
Hennessey, Douglas J. Hydroperoxides of DDD and its analogues. 3,471,572, 10-7-69, Cl. 260-610.
Hennessey, Douglas J.; and Villarica, Rudolfo. Method of preparing 1,1-bis(*p*-chlorophenyl)-2,2- dichloro-1-fluoroethane. 3,449,447, 6-10-69, Cl. 260-649.
Hennessey, Everett T., to Zip Products, Inc. Workpiece positioning device for machine tools. 3,463,478, 8-26-69, Cl. 269-271.
Hennessey, Everett T., to Zip Products, Inc. Workpiece positioning device for machine tool vises. 3,463,479, 8-26-69, Cl. 269-271.
Hennessey, Timothy W., to Robbins & Myers, Inc. Spring brake for saw motor. 3,440,463, 4-22-69, Cl. 310-77.
Hennessy, James J., Jr., to Hennessy Products, Inc. Double sliding door actuator. 3,468,063, 9-23-69, Cl. 49-362.
Hennessy, Leo E., to Industrial Electronic Rubber Company. Laminated product and process for preparing same. 3,450,594, 6-17-69, Cl. 161-184.
Hennessy Products, Inc.: *See—*
Custer, George M., 3,468,062.
Hennessy, James J., Jr., 3,468,063.
Mattingly, Ronald R., 3,473,630.
Hennig, Fridoin: *See—*
van Albedyll, Joachim; and Hennig, Fridoin,3,452,659.
Hennig, Fridolin: *See—*
von Albedyll, Joachim; and Hennig, Fridolin,3,456,567.
Wick, Richard; Wagner, Karl; von Albedyll, Joachim; Renner, Otfried; and Hennig, Fridolin,3,466,992.
Hennig, Fritz: *See—*
Bester, Werner; Butzke, Fritz; Hennig, Fritz; Voelcker, Sven; Reier, Richard; and Rekewitz, Rudolf,3,450,836.
Hennig, Fritz, to Siemens Aktiengesellschaft. Switching arrangement for coding and converting information signals. 3,441,671, 4-29-69, Cl. 178-17.
Hennig, Hans Joachim; Windemuth, Erwin; and Zankl, Erich, to Farbenfabriken Bayer Aktiengesellschaft. Urethane oils. 3,437,500, 4-8-69, Cl. 106-252.
Hennig, Ralph R., to Allied Chemical Corporation. Production of hydrogen fluoride from alkali- and alkaline earth fluosilicates. 3,421,853, 1-14-69, Cl. 23-153.
Hennig, Walter: *See—*
Langnau, Kurt; Hennig, Walter; Strehle, Horst; and Schulze, Heinz,3,481,259.
Hennigan, Edward A.: *See—*
Goranson, Charles D.; and Hennigan, Edward A.,3,420,529.

Hennigan, Thomas J.: *See—*
Ford, Floyd E.; Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,470,441.
Hennigan, Thomas J., to United States of America, National Aeronautics and Space Administration. Apparatus for measuring swelling characteristics of membranes. 3,419,964, 1-7-69, Cl. 33-174.
Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O., to United States of America, National Aeronautics and Space Administration. Method and apparatus for battery charge control. 3,426,263, 2-4-69, Cl. 320-23.
Henning, Carl D., to United States of America, Atomic Energy Commission. Method for making baseball seam magnetic coils. 3,465,431, 9-9-69, Cl. 29-602.
Henning, Dan C., to Staunton, G. S., & Company, Inc. Method and apparatus for making filters. 3,431,335, 3-4-69, Cl. 264-138.
Henning, Donald S.: *See—*
Milhaupt, Howard A.; and Henning, Donald S.,3,438,702.
Henning, Walter: *See—*
Tigges, Gerhard; and Henning, Walter,3,465,984.
Hennings, Klaus; and Schutze, Hans-Jurgen, to Telefunken Patentverwertungsgesellschaft m.b.H. Contacting arrangement for solid-state components. 3,456,335, 7-22-69, Cl. 29-579.
Hennings, Klaus; and Schutze, Hans-Jurgen, to Telefunken Patentverwertungsgesellschaft m.b.H. Method of fabricating electrical devices. 3,462,322, 8-19-69, Cl. 148-175.
Hennings, Klaus; Schutze, Hans-Jurgen; and Ulbricht, Gerhard, to Telefunken Patentverwertungsgesellschaft m.b.H. Electrical circuit manufacture. 3,462,650, 8-19-69, Cl. 317-101.
Hennings, Klaus: *See—*
Schutze, Hans-Jurgen; and Hennings, Klaus,3,419,955.
Schutze, Hans-Jurgen; and Hennings, Klaus,3,427,708.
Schutze, Hans-Jurgen; and Hennings, Klaus,3,427,709.
Schutze, Hans-Jurgen; and Hennings, Klaus,3,461,548.
Henningsen, Christian Johannes: *See—*
Christensen, Frede; Henningsen, Christian Johannes; Larsson, Bernt Arne Rudolf; Knipstrom, Karl-Erik; and Skarpengland, Bjorn Frost,3,427,527.
Henningsen, Etlar August: *See—*
Skromme, Arnold Burton; Henningsen, Etlar August; and Hoffman, John E., Jr.,3,462,975.
Henningsen Foods, Inc.: *See—*
Classen, Alvin T., 3,455,356.
Hennion, George F., to Lilly, Eli, and Company. Novel process for preparing quaternary amine salts. 3,481,982, 12-2-69, Cl. 260-567.6
Henquet, Andre Jean; Cavin, Robert Victor; and Feuillepain, Marcel, to International Standard Electric Corporation. Binary data transmission and pulse counter. 3,466,606, 9-9-69, Cl. 340-164.
Henrich, Robert S.: *See—*
Thornsen, Bernard L.; Henrich, Robert S.; and Mayer, Leo F.,3,480,849.
Henrich, Werner. Apparatus for the continuous winding of wire on spools. 3,441,229, 4-29-69, Cl. 242-25.
Henrichs, Bernard W.; and Brown, Frank A., to Hartwell Corporation. Self-locking concealed hinge. 3,469,277, 9-30-69, Cl. 16-145.
Henricks, Grace H.: *See—*
Hendricks, William W.; and Freeman, Lawrence M., 3,472,408.
Henrickson, Angus V.: *See—*
Hazen, Wayne C.; Henrickson, Angus V.; and Hadzeriga, Pablo,3,425,799.
Henrickson, Henry G., to Kaiser Aluminum & Chemical Corporation. Method of fabricating container opening device. 3,451,367, 6-24-69, Cl. 113-121.
Henrickson, Henry G., to Kaiser Aluminum & Chemical Corporation. Pipe coupler device. 3,455,584, 7-15-69, Cl. 285-373.
Henrie, Rodney A.; and Stoner, Harvey R. Safety device for stairs. 3,439,775, 4-22-69, Cl. 182-138.
Henriksen & Henriksen I/S: *See—*
Arfelt, Soren Christian Schoubye, 3,472,278.
Henriksen, Elmer C.; and Reekie, James, to Bell & Howell Company. Film-projector and television camera. 3,454,714, 7-8-69, Cl. 178-7.2
Henriksen, Erik K., to Aerojet-General Corporation. Method and apparatus of forming intagral ribs on tubes. 3,433,039, 3-18-69, Cl. 72-56.
Henriksen, Ernst Johan Jens. Fountain pen structures. 3,424,537, 1-28-69, Cl. 401-142.
Henriksen, Jan-Erik; and Bjorkum, Svein, to Elektriska Svetsningsaktiebolaget. Composite welding hose. 3,433,882, 3-18-69, Cl. 174-15.
Henrikson, Bror W.: *See—*
Barecki, Chester J.; and Henrikson, Bror W.,3,481,624.
Barecki, Chester J.; Henrikson, Bror W.; and Nordmark, Walter E.,3,478,981.
Henrikson, Donald F.: *See—*
Grimes, Milton J.; Henrikson, Donald F.; and Meisel, Herbert R.,3,478,420.
Henrikson, Sture: *See—*
Backstrom, Arne Ivar; Henrikson, Sture; and Levin, Per Erik,3,479,181.
Henriksson, Per, to Dalin, David. Heat exchanger for waste heat recovery. 3,434,532, 3-25-69, Cl. 165-75.
Henriksson, Sune Torsten: *See—*
Landeborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig,3,466,093.
Landerborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar-Ludvig,3,454,176.
Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig. Devices for resilient support of driver's compartments in vehicles. 3,420,568, 1-7-69, Cl. 296-35.
Henrion, Marie Charles Emile. Valve with circular butterfly valve member. 3,423,066, 1-21-69, Cl. 251-308.
Henrion, Marie Charles Emile. Control system for butterfly valves. 3,464,669, 9-2-69, Cl. 251-173.
Henriques, Lance L., to Foreman, Davis. Alarm actuated carrier current transmitter. 3,447,100, 5-27-69, Cl. 331-111.
Henry & Cie, Jean Kauer & Cie, Succ.: *See—*
Bachmann, Wolfgang, 3,473,726.
Henry, Albert R., to Henry Industries, Inc. Control for machine tools. 3,456,466, 7-22-69, Cl. 72-26.
Henry, Andrew G.; and Rekolt, Herman. Tank. 3,433,246, 3-18-69, Cl. 137-351.
Henry-Baudot, Jacques, to Printed Motors Inc. Stator for axial air-gap electric rotary machines. 3,443,133, 5-6-69, Cl. 310-154.
Henry-Baudot, Jacques, to Societe d'Electronique et d'Automatisme. Multiple member windings for electrical rotating machines. 3,450,919, 6-17-69, Cl. 310-268.
Henry-Baudot, Jacques, to Printed Motors, Inc. Printed-circuit multilayer winding for electric rotary machines. 3,456,144, 7-15-69, Cl. 310-268.
Henry-Biabaud, Edmond J. G., to Societe Anonyme Andre Citroen. Rotary joints. 3,442,561, 5-6-69, Cl. 308-72.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Servo-controlled change-speed transmissions of vehicles. 3,422,939, 1-21-69, Cl. 192-3.5
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Feed system fo electric-ignition gasoline-fed automotive heater. 3,423,159, 1-21-69, Cl. 431-72.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Servo-steering systems for automobile vehicles. 3,426,612, 2-11-69, Cl. 74-495.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Hydraulic shock absorbers. 3,432,008, 3-11-69, Cl. 188-94.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Braking apparatus for vehicles. 3,436,127, 4-1-69, Cl. 303-7.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Wheel suspension arms of independent wheel vehicles. 3,437,348, 4-8-69, Cl. 280-124.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Apparatus for the hydrostatic transmission of mechanical torque. 3,444,690, 5-20-69, Cl. 60-53.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Internal-combustion engine. 3,444,852, 5-20-69, Cl. 123-188.
Henry-Biabaud, Edmond, to Societe Anonyme Automobiles Citroen. Steering apparatus for vehicles. 3,451,691, 6-24-69, Cl. 280-96.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Devices for draining off oil from the valve cover and cooling the cylinder head of an internal combustion engine. 3,456,759, 7-22-69, Cl. 184-7.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Grinding tools. 3,458,961, 8-5-69, Cl. 51-338.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Wheel device for laterally moving an automotive vehicle from rest. 3,460,643, 8-12-69, Cl. 180-1.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Articulated joints. 3,460,650, 8-12-69, Cl. 184-105.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Methods and apparatus for reversing the direction of rotation of engine output shafts. 3,461,743, 8-19-69, Cl. 74-674.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Self-contained hydraulic power transmission units. 3,464,205, 9-2-69, Cl. 60-53.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Engine and lateral gearbox units. 3,465,613, 9-9-69, Cl. 74-606.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Apparatus for accelerating the disengagement of a mechanical clutch member incorporated in a hydrokinetic torque converter. 3,465,856, 9-9-69, Cl. 192-3.33
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Suspension systems of vehicles. 3,467,406, 9-16-69, Cl. 280-96.2
Henry-Biabaud, Edmond, to Societe Anonyme Automobiles Citoen. Vehicle seats. 3,468,581, 9-23-69, Cl. 297-341.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Steerable front-wheel-drive vehicles. 3,473,621, 10-21-69, Cl. 180-42.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Diaphragm-type hydraulic accumulators. 3,477,473, 11-11-69, Cl. 138-30.
Henry-Biabaud, Edmone, to Societe Anonyme Andre Citroen. Braking system for tractor and trailer assembly. 3,424,502, 1-28-69, Cl. 303-7.

Henry, Charles H.; and Thomas, David G., to Bell Telephone Laboratories, Incorporated. Tunable light filter. 3,439,974, 4-22-69, Cl. 350-149.
Henry, Daniel: *See—*
Walker, John A.; Henry, Daniel; and Lienemann, Darlo E.,3,483,755.
Henry, David W.: *See—*
Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W.,3,487,087.
Henry, David W.; and Hoff, Dale R., to Merck & Co., Inc. 2-Carbonyl-5-nitroimidazoles. 3,472,864, 10-14-69, Cl. 260-309.
Henry, Donald E.: *See—*
Vandemore, James J.; and Henry, Donald E.,3,466,472.
Henry, Donald L. Method for separating expanded perlite with minimum particle breakage. 3,447,678, 6-3-69, Cl. 209-3.
Henry, Edmund F.: *See—*
Comey, Kenneth R., Jr.; and Durst, George,3,477,845.
Henry, Edwin B., Jr.; Schindler, Donald G.; and Zemberry, William L., to United States Steel Corporation. Apparatus for monitoring the operation of a pressure-testing machine and recording the results. 3,430,485, 3-4-69, Cl. 73-49.6
Henry Engineering Company: *See—*
Judd, Ronald I., 3,468,582.
Henry, Frank B.; and Ropp, Donald L., to Ametek, Inc. Laundry machine. 3,436,850, 4-8-69, Cl. 38-2.
Henry, Frank B.; and Windmiller, Harvey L., to Ametek, Inc. Laundry folding machine to produce various types of folds. 3,477,708, 11-11-69, Cl. 270-69.
Henry, George R.; and Lewis, Thomas W., II, to Dresser Industries, Inc. Monolithic refractory. 3,432,315, 3-11-69, Cl. 106-59.
Henry, George R.; and Scott, Robert K., to Dresser Industries, Inc. Method of slip casting basic refractory materials. 3,449,478, 6-10-69, Cl. 264-86.
Henry, Georges A. Multiple-selection pushbutton device for radio sets having voltage variable capacitance tuning means. 3,439,292, 4-15-69, Cl. 334-7.
Henry, Georges; Brichard, Edgard; Marchand, Jean; and Bauduin, Albert, to Glaverbel S.A. Glass drawing apparatus with deflecting coolers. 3,477,838, 11-11-69, Cl. 65-204.
Henry Hanger & Display Fixture Corp. of Calif., The: *See—*
Spitz, Bernard, 3,433,335.
Henry, Herbert J.: *See—*
Attwood, Warren R.; and Henry, Herbert J.,3,468,567.
Henry, Howarth Padgett, to Mathews, E. Engineering Company Limited. Rotary fluid pressure actuators. 3,447,423, 6-3-69, Cl. 91-395.
Henry Industries, Inc.: *See—*
Henry, Albert R., 3,456,466.
Henry, Irvin E.: *See—*
Hathaway, David B.; and Henry, Irvin E.,3,451,133.
Henry, James L.: *See—*
Brooks, Chester E.; Henry, James L.; and Meyerle, John A.,3,435,159.
Brooks, Chester E.; Henry, James L.; Linhart, Peter B.; Markthaler, Grace E.; Massoni, Donald R.; and Meyerle, John A.,3,462,557.
Henry, John J., to Fort Wayne Tool & Die, Inc. End turn shaping and positioning apparatus for stator winding machine. 3,441,228, 4-29-69, Cl. 242-1.1
Henry, John J., to United States of America, Atomic Energy Commission. Temperature control circuit. 3,449,599, 6-10-69, Cl. 307-310.
Henry, John W., IV, to United States of America, Navy. Quiet multivane multirow impeller for centrifugal pumps. 3,478,691, 11-18-69, Cl. 103-115.
Henry, Joseph P.: *See—*
Hill, Fred N.; and Henry, Joseph P.,3,436,409.
Henry, Joseph P.; and Wilkinson, Loy A., to Union Carbide Corporation. Dehydrogenation of ethylbenzene to styrene. 3,474,153, 10-21-69, Cl. 260-669.
Trecker, David J.; Henry, Joseph P.; and Brandon, Richard L.,3,453,197.
Henry, Kenneth J.: *See—*
Stutske, William A.; and Henry, Kenneth J.,3,469,672.
Henry, Lloyd S.: *See—*
Vaughan, Wayne W.; Wilson, Richard R.; Powell, Paul B., Jr.; and Henry, Lloyd S.,3,447,275.
Henry, Louis, to Societe de Prospection Electrique Schlumberger S.A. Borehole surveying apparatus with complementary rotation of paired transducers. 3,426,865, 2-11-69, Cl. 181-0.5
Henry, Nelson R., to Woodman Company, The. Packaging with code dating. 3,473,286, 10-21-69, Cl. 53-14.
Henry, Nelson R.; and Hobart, Jack, to Woodman Company, Inc., The. Web roll cradle. 3,465,979, 9-9-69, Cl. 242-68.7
Henry, Richard J., to DoAll Company, mesne. SCR phase responsive power control circuit having extended analog range. 3,441,828, 4-29-69, Cl. 318-345.
Henry, Robert L.: *See—*
Hendrixson, Charles D.; and Henry, Robert L.,3,471,241.
Henry, Robert L., to Cincinnati Milling Machine Co., The. Electrodischarge machining apparatus. 3,463,896, 8-26-69, Cl. 219-69.
Rutledge, Ralph Martin; Henry, Robert L.; and Williams, William Albert,3,442,521.
Henry, Robert Randall, to Hamblet Machine Co. Adjustable pulley. 3,425,289, 2-4-69, Cl. 74-230.19
Henry Valve Company: *See—*
Jones, Evan, 3,425,444.
Jones, Evan, 3,482,596.
Henry, Wilbur G., to Procter & Gamble Company, The. Apparatus for preparing soap bars. 3,471,906, 10-14-69, Cl. 25-8.
Henry, William C.: *See—*
Jones, Charles E.; and Henry, William C.,3,476,273.
Henry, William F.: *See—*
Katz, Morris H.; and Henry, William F.,3,463,014.
Henry, William J., to Deering Milliken Research Corporation. Apparatus for production of stretch core yarns. 3,444,677, 5-20-69, Cl. 57-12.
Hensch, Edward J.: *See—*
Vona, Joseph A.; and Hensch, Edward J.,3,452,054.
Henschen, Curtis W. Bearing assembly for elastic joints. 3,436,069, 4-1-69, Cl. 267-57.1
Henschen, Homer Ernst: *See—*
Ferdon, Gilbert Douglas; and Henschen, Homer Ernst,3,474,395.
Hensel, Jack; and Gier, Delta W., to Chemagro Corporation. Chloro and nitro containing phenyl phosphites. 3,463,838, 8-26-69, Cl. 260-954.
Hensel, Walter C., to Universal Oil Products Company. Particulate solid sampling device. 3,442,138, 5-6-69, Cl. 73-423.
Henselman, Richard O.: *See—*
Burkard, Herbert G.; Henselman, Richard O.; Miller, Harold N.; and Tunkel, Norman,3,442,790.
Henselman, Richard O.; Catto, Vincent P.; Williges, George R.; and Hollyday, William C., Jr. Separation of hydrocarbon wax from mineral oil using dewaxing aids. 3,458,430, 7-29-69, Cl. 208-33.
Henselman, Richard O.; and Miller, Harold N., to Esso Research and Engineering Company. Solvent dewaxing with a synergistic wax crystal modifier composition. 3,475,321, 10-28-69, Cl. 208-33.
Hensgen, Bernard T., to Hensgen, B.T., Inc. Apparatus for applying powdered release agent while cutting stock. 3,420,209, 1-7-69, Cl. 118-15.
Hensgen, B.T., Inc.: *See—*
Hensgen, Bernard T., 3,420,209.
Henshall, Neal: *See—*
Block, Harry W.; and Henshall, Neal,3,458,319.
Henshaw, John Anthony; and Lea, Kenneth Ellis, to Mirrlees National Limited. Power transmission gearing with means for canceling load-generated forces. 3,421,382, 1-14-69, Cl. 74-410.
Henshaw, Langford W. Packing for stuffing boxes. 3,442,518, 5-6-69, Cl. 277-110.
Hensler, Joseph R.; and Letter, Eugene C., to Bausch & Lomb Incorporated. Method for forming ceramic metallic bonds. 3,428,474, 2-18-69, Cl. 117-47.
Hensler, Paul, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Drive unit for vehicles, especially motor vehicles. 3,435,612, 4-1-69, Cl. 60-12.
Hensley, Arthur J., 2/3 to Lochen, R. L. U-bolt clamp. 3,432,893, 3-18-69, Cl. 24-135.
Hensley Equipment Company, Inc.: *See—*
Hensley, Ruston C., 3,444,633.
Hensley, Irene B. Adjustable wig mount. 3,462,050, 8-19-69, Cl. 223-66.
Hensley, Max J., to Phillips Petroleum Company. Rotary burners. 3,425,631, 2-4-69, Cl. 239-214.15
Hensley, Perry J., to Hercules, Incorporated. Caseless ammunition with the primer operatively supported to the aft-end of the projectile. 3,439,635, 4-22-69, Cl. 102-38.
Hensley, Ruston C., to Hensley Equipment Company, Inc. Two-part excavating tooth. 3,444,633, 5-20-69, Cl. 37-142.
Hensley, Sidney G., to Moody Dunbar, Inc. Flotation separator for pepper cores and meats. 3,430,764, 3-4-69, Cl. 209-10.
Henson, Artel R., to Disco Engineering, Inc. Modular air door construction. 3,474,721, 10-28-69, Cl. 98-36.
Henson, Gary E. Door and window frame construction. 3,457,686, 7-29-69, Cl. 52-213.
Henson, Harry H. Securement for mop or broom heads. 3,423,781, 1-28-69, Cl. 15-145.
Henson, Robert M.: *See—*
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John,3,441,775.
Henson, Robert W.: *See—*
James, Emily; and Henson, Robert W.,3,430,632.
Henson, Thomas Leslie, to Baker Perkins Inc. Oven control systems. 3,486,694, 12-30-69, Cl. 236-15.
Henson-Kickernick, Inc.: *See—*
James, Emily; and Henson, Robert W., 3,430,632.
Hensrude, William. Guide mechanism. 3,426,481, 2-11-69, Cl. 49-410.
Henstock, Graham: *See—*
Hands, Edward; and Henstock, Graham,3,469,112.

Hentschel, Gerald P.: *See—*
MacAfee, James E.; Davis, Robert L.; and Hentschel, Gerald P.,3,428,034.
Hentschel, John E., to S-F-D Laboratories, Inc. Non-reflective internal lossy terminations for slow wave circuits and tubes using same. 3,437,866, 4-8-69, Cl. 315-3.5
Hentschel, Rudolf G., to Baker & Gubbins Co. Liquid applicator system. 3,452,710, 7-1-69, Cl. 118-7.
Hentschel, Rudolf G. Low Q test coils for magnetic field sensing. 3,464,002, 8-26-69, Cl. 324-40.
Hentschel, Rudolf G. Wide frequency range eddy current testing instrument. 3,478,263, 11-11-69, Cl. 324-40.
Heny, Steve, to Linden Laboratories, Inc. Base mounted piezoelectric transducer assembly having intermediate stress absorbing member. 3,441,754, 4-29-69, Cl. 310-9.1
Henyon, Lewis E., to Clark Equipment Company. Apparatus for positioning gears and/or clutch hubs on a shaft. 3,473,402, 10-21-69, Cl. 74-375.
Henze, Herbert O., to Penn Fishing Tackle Mfg. Co. Fishing reel. 3,478,979, 11-18-69, Cl. 242-84.54
Hepding, Ludwig: *See—*
Rogalski, Werner; Wahlig, Helmut; and Hepding, Ludwig,3,461,161.
Hepker, Casswell C., to Collins Radio Company. Radio chassis assembly. 3,475,656, 10-28-69, Cl. 317-101.
Heplon Inc.: *See—*
Gorecki, Charles E., 3,422,492.
Hepp, Harold J.: *See—*
Box, E. O., Jr.; and Hepp, Harold J.,3,461,177.
Hepp, Harold J.; and Box, E. O., Jr., to Phillips Petroleum Company. Catalytic dehydrogenation process. 3,461,183, 8-12-69, Cl. 260-680.
Hepp, Harold J.; and Drehman, Lewis E., to Phillips Petroleum Company. Regeneration of aluminum halide containing catalysts. 3,425,955, 2-4-69, Cl. 252-411.
Heppenstall, Charles W. Window unit. 3,440,766, 4-29-69, Cl. 49-372.
Heppenstall Company: *See—*
Anderson, John R., 3,436,116.
Dietz, Thomas R.; and Gordon, Charles R., 3,436,331.
Stich, Wilhelm; and Sickbert, Adolf, 3,432,367.
Hepplewhite, Ralph T.; and Kahng, Dawon, to Bell Telephone Laboratories, Incorporated. Process for introduction of oxygen vacancies in perovskite ferroelectric crystals. 3,420,776, 1-7-69, Cl. 252-62.9
Heppner, Earl F.: *See—*
Lally, Joseph E.; Heppner, Earl F.; and Berninger, Harold O.,3,441,279.
Hepworth & Grandage Limited: *See—*
Wells, Alan, 3,485,504.
Hequembourg, Charles W.: *See—*
Von Bramer, Paul T.; and Hequembourg, Charles W.,3,437,629.
Her Majesty Industries, Inc.: *See—*
Ramsey, Willard A.; and Bolding, Charles E., 3,459,144.
Ramsey, Willard A.; and Bolding, Charles E., 3,459,145.
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E., 3,485,490.
Her Majesty Underwear Company: *See—*
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E., 3,438,625.
Ramsey, Willard A.; and Colin, Aaron G., 3,484,098.
Her Majesty's Postmaster General:*See—*
Flowers, Thomas Harold, 3,439,123.
Her Majesty's Postmaster General of the General Post Office:*See—*
Groves, Kenneth; and Ridout, Philip Neale, 3,486,117.
Heraeus, W. C., G.m.b.H.: *See—*
Thiede, Maria nee Mentzner; and Ruthardt, Konrad, 3,480,429.
Heraeus-Schott Quarzschmelze G.m.b.H.: *See—*
Schmitt, Heinz, 3,480,151.
Herald, Conrad D.; and Scruggs, David M., to Bendix Corporation, The. Method of producing dispersion strengthened metals. 3,468,658, 9-23-69, Cl. 75-122.
Herb, Carl C.: *See—*
Coleman, Milton H.; Traver, Darwin G.; and Herb, Carl C.,3,452,667.
Fragnito, Daniel A.; and Herb, Carl C.,3,441,082.
Herb, Philip J., to Thomas & Betts Corporation. Electrical connector for flat conductor cable. 3,461,221, 8-12-69, Cl. 174-84.
Herb, Philip J.; and Ecker, Theodore J., to Thomas & Betts Corporation. Connector assembly. 3,430,186, 2-25-69, Cl. 339-74.
Herb, Raymond G., to Wisconsin Alumni Research Foundation. Orbitron electronic vacuum gauge having second anode for collecting scattered electrons. 3,449,660, 6-10-69, Cl. 324-33.
Herb, Raymond G., to National Electrostatics Corporation. High voltage accelerator and accelerating tube therefor. 3,473,064, 10-14-69, Cl. 313-7.
Herb, Raymond G.; and Ferry, James A., to National Electrostatics Corporation. High voltage electrostatic generator. 3,469,118, 9-23-69, Cl. 310-6.
Herbeck, Ernst: *See—*
Dreyer, Heinz; and Herbeck, Ernst,3,425,636.
Herbell, Thomas P.: *See—*
Quatinetz, Max; Weeton, John W.; and Herbell, Thomas P.,3,472,709.
Herbenar, Edward J., to TRW Inc. Swedging tool. 3,430,327, 3-4-69, Cl. 29-243.52
Herbenar, Edward J., to TRW Inc. Preloaded joint assembly. 3,464,723, 9-2-69, Cl. 287-87.
Herbenar, Edward J. Controlled torque twin bearing assembly adapted for kingpin-type wheel suspensions. 3,477,771, 11-11-69, Cl. 308-71.
Herbenar, Edward J.; and Cass, Richard, to TRW Inc. Ball and socket joint. 3,486,778, 12-30-69, Cl. 287-87.
Herbenar, Edward J.; Cass, Richard; and Kutcher, Eugene R., to TRW Inc. Boot seal retainers. 3,430,995, 3-4-69, Cl. 287-87.
Herbenar, Edward J.; and Mazur, Sylvester S., to TRW Inc. Purgible seal assembly. 3,441,298, 4-29-69, Cl. 287-87.
Herber, Horst; Hagen, Werner; and Schroeder, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separating vaporous aldehydes from offgas obtained in the oxo process. 3,455,091, 7-15-69, Cl. 55-84.
Herberhold, Dieter: *See—*
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz,3,466,968.
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz,3,466,969.
Herberlein Patent Corporation: *See—*
Weiss, Ernst, 3,451,763.
Herbert, Alfred, Limited: *See—*
Harman, Julius, 3,449,990.
Harman, Julius, 3,466,739.
Harman, Julius, 3,466,740.
Shotter, Douglas Ralph, 3,450,002.
Herbert, Colin Wray, to Glacier Metal Company Limited, The. Marine propeller having a buoyant chamber. 3,448,715, 6-10-69, Cl. 115-34.
Herbert, Colin Wray, to Glacier Metal Company Limited, The. Stern gear for ships. 3,467,050, 9-16-69, Cl. 115-34.
Herbert, Edward, III.: *See—*
Haydon, Arthur W.; Herbert, Edward, III.; and Riggs, William D.,3,469,132.
Herbert, Edward, III, to Tri-Tech, Inc., mesne. System for translating electrical pulses into incremental mechanical motions. 3,473,069, 10-14-69, Cl. 318-138.
Herbert, John M.: *See—*
Deeley, Gerald G.; and Herbert, John M.,3,455,729.
Herbert, Normand C., to Corning Glass Works. Method of measuring potassium ion and glass electrode therefor. 3,459,641, 8-5-69, Cl. 204-1.
Herbert, Richard M.; and Hinds, James C., to Heil-Quaker Corporation. Panel coupling having means for preventing axial and rotational movement. 3,476,411, 11-4-69, Cl. 285-192.
Herbert, Ronald M.: *See—*
Weimer, Ralph E.; and Herbert, Ronald M.,3,430,815.
Herbert, Victor, to Mount Sinai Hospital Research Foundation, Inc. Molecular sieve coated particulate adsorbent and processes using same. 3,442,819, 5-6-69, Cl. 252-428.
Herbert, Wilbur F., to Coors Porcelain Company. Method for making curved ceramic plates. 3,442,994, 5-6-69, Cl. 264-63.
Herbert, William C., Jr. Heating apparatus for a printing press. 3,421,228, 1-14-69, Cl. 34-1.
Herbes, William Frank; and Dundon, John Peter, to American Cyanamid Company. N-methylol-N'-substituted-4,5-di-hydroxy-2-imidazolidinones. 3,442,905, 5-6-69, Cl. 260-309.7
Herbkersman, Earle C., to Pipe Machinery Company, The. Self-adjusting clamping chuck. 3,456,956, 7-22-69, Cl. 279-4.
Herbold, Robert J., to Technical Operations, Incorporated, mesne. Rotating mirror scanner. 3,463,882, 8-26-69, Cl. 178-7.6
Herbruggen, Henry J.: *See—*
Miller, Leon F.; and Herbruggen, Henry J.,3,439,733.
Miller, Leon F.; and Herbruggen, Henry J.,3,470,938.
Herbst, Benjamin T. Combined crop shaker and harvester. 3,477,215, 11-11-69, Cl. 56-328.
Herbst, Darwyn L.; and Ewing, Keith E., to General Motors Corporation. Thermistor construction. 3,477,055, 11-4-69, Cl. 338-22.
Herbst, David R.: *See—*
Koo, Charles M. C.; Pattison, Thomas W.; and Herbst, David R.,3,458,498.
Pattison, Thomas W.; and Herbst, David R.,3,478,054.
Herbst, David R., to American Home Products Corporation. 1-Arylsulfonyl-3-(2-substituted ethyl) indoles. 3,481,953, 12-2-69, Cl. 260-326.12
Herbst, David R., to American Home Products Corporation. 1-(Benzyl- or substituted-benzyl)-3-(2- substituted-ethyl) indoles. 3,487,091, 12-30-69, Cl. 260-326.15
Strike, Donald P.; Herbst, David R.; and Smith, Herchel,3,452,004.

Herbst, Hagen; Kleedehn, Eckhart; and Pietrucha, Herbert, to VEB Funkwerk Kopenick, mesne. Apparatus for ascertaining load conditions in a dragnet. 3,478,462, 11-18-69, Cl. 43-9.
Herbst, Walter A., to Esso Research and Engineering Company. Method of burning industrial fuels. 3,421,824, 1-14-69, Cl. 431-10.
Herbstman, Sheldon; and Hwa, Jesse C. H., to Stauffer Chemical Company. Method of producing episulfides. 3,431,277, 3-4-69, Cl. 260-327.
Herceg, Zlatko: *See—*
Tassicker, Owen James; McLean, Kenneth James; and Herceg, Zlatko,3,473,118.
Herchenroder, Hans, to Kocks, Friedrich, GmbH. Warping and holding winch for ships. 3,476,361, 11-4-69, Cl. 254-172.
Hercules Clip Corporation: *See—*
Coon, Herb, 3,456,262.
Hercules Incorporated: *See—*
Aldrich, Paul H., 3,483,077.
Alexander, Bradley B., 3,445,263.
Armantrout, Robert J.; and Person, Burton C., 3,449,181.
Bishop, Robert G.; Desmarais, Armand J.; and Reid, Albert R., 3,455,714.
Bishop, William T., 3,452,867.
Blunt, Harry W., 3,475,369.
Body, Ralph W., 3,474,059.
Bohn, Lothar; Jastrow, Horst; Leugering, Jans-Joachim; and Vetter, Hans-Joachim, 3,472,917.
Booth, Albert B., 3,422,029.
Brack, Karl, 3,454,506.
Breslow, David S., 3,446,876.
Breslow, David S., 3,448,063.
Brooks, Robert M.; and Gardner, William H., 3,422,169.
Brooks, Robert M.; and Gardner, William H., 3,422,170.
Buhl, Frank C.; Lees, Ronald D.; and Monagle, Daniel J., 3,479,221.
Burns, Robert T., 3,458,902.
Cain, Gilbert E., 3,430,650.
Carosino, Lawrence E., 3,446,844.
Conner, Willard P., 3,462,291.
Covert, Eugene E., 3,482,123.
Cronin, Edward W.; and Weber, Walter O., 3,437,722.
Desmarais, Armand J.; and Reid, Albert R., 3,435,027.
Desmarais, Armand J., 3,483,148.
Dickson, David M., Jr., 3,471,427.
Dieckmann, Steffen F., 3,442,820.
Dittmann, David J., 3,451,341.
Earle, Ralph H.; Schmalz, Alfred C.; and Soucek, Charles A., 3,433,853.
Espy, Herbert H., 3,442,754.
Farmer, Leonard J.; and Ruth, John A., 3,482,516.
Feild, George B., 3,460,337.
Floyd, John D.; and O'Connor, Martin J., 3,458,442.
Floyd, John D.; and O'Connor, Martin J., 3,484,229.
Foster, Stephen F., 3,431,848.
Ganz, Alexander J., 3,479,190.
Ganz, Alexander J., 3,485,651.
Genge, Colin A., 3,478,009.
Gill, James W.; and Lim, Peter G., 3,422,085.
Guenter, Richard G., 3,457,859.
Hall, John N.; and Kim, Charles W., 3,470,685.
Harris, Elwin A., 3,436,386.
Harrison, John R.; and Monagle, Daniel J., 3,479,283.
Haubein, Albert H., 3,445,222.
Haubein, Albert H.; and Hood, Horace E., 3,471,577.
Hensley, Perry J., 3,439,635.
Hershelman, Jack G., 3,485,773.
Jabloner, Harold, 3,458,597.
Johnstone, Paul L., 3,428,506.
Johnstone, Paul L., 3,430,116.
Johnstone, Paul L., 3,484,916.
Kim, Charles W.; and Samluk, Stanley D., 3,470,285.
Kim, Charles W., 3,470,594.
King, Nobal E., Jr., 3,446,770.
Klug, Eugene D., 3,431,254.
Knight, Herbert G., Jr., 3,442,729.
Kutner, Abraham, 3,445,444.
Lawrence, Robert W., 3,455,750.
Lees, Ronald D., 3,472,767.
Lees, Ronald D., 3,479,284.
Lees, Ronald D., 3,480,541.
Lin, Kuang Farn, 3,421,919.
Lin, Kuang Farn, 3,450,652.
Logan, Lawrence J., Jr., 3,453,357.
Lokey, Benjamin F., 3,483,261.
MacArthur, Norman C., 3,425,860.
Mahlman, Bert H., 3,483,276.
McCurdy, Gordon W., 3,450,389.
Miller, Harold R., 3,427,217.
Nechvatal, Stanley R.; and Parks, William N., 3,457,611.
Nechvatal, Stanley R.; and Parks, William N., 3,471,911.
Newman, Philip G., 3,437,037.
Newman, Philip G., 3,437,038.
Olson, Setha G., 3,435,020.
Oppenlander, George C., 3,422,171.
Oppenlander, George C.; and Thomas, Walter W., 3,436,298.
Oppenlander, George C., 3,485,906.
Paul, James T., Jr., 3,437,550.
Paul, James T., Jr., 3,473,513.
Paul, James T., Jr., 3,480,498.
Paul, James T., Jr., 3,480,499.
Plunguian, Mark, 3,451,883.
Prosser, Thomas J., 3,428,693.
Rummelsurg, Alfred L., 3,437,650.
Saunders, Robert H., 3,420,724.
Schulde, Felix; and Winter, Jakob, 3,424,709.
Schulde, Felix; and Schleede, Dietrich, 3,462,389.
Schwarz, Robert J., 3,483,107.
Smallwood, Billy G., 3,486,453.
Snyder, John C., 3,485,585.
Spurlin, Harold M.; and Weldy, Winfred E., 3,445,442.
Stapfer, Christian, 3,450,746.
Thigpen, Jonathan I., 3,483,452.
Trimble, David C., 3,447,199.
Van Wirt, Alfred E., 3,423,169.
Vandenberg, Edwin J., 3,422,082.
Vandenberg, Edwin J., 3,429,834.
Vandenberg, Edwin J., 3,446,757.
Vandenberg, Edwin J., 3,450,774.
Vandenberg, Edwin J.; and Willis, William D., 3,474,045.
Vandenberg, Edwin J., 3,484,418.
Vandenberg, Edwin James, 3,476,718.
Wagner, Richard L., 3,440,959.
Wagner, Richard L., 3,470,013.
Walker, John F., 3,424,727.
Wolf, William F.; and Kosiorek, Raymond, 3,428,466.
Herczeg, Frank. Arbor for machine tool. 3,471,184, 10-7-69, Cl. 287-53.
Herczog, Andrew: *See—*
Borrelli, Nicholas F.; Herczog, Andrew; and Maurer, Robert D.,3,467,463.
Currin, Cedric G.; Herczog, Andrew; and Settzo, Robert J.,3,474,304.
Herczog, Andrew; and Rice, Dale W., to Corning Glass Works. Method of producing a vitreous body by crucibles fluid zone treatment. 3,485,613, 12-23-69, Cl. 65-60.
Herd, David P.: *See—*
Fowler, John H.; and Herd, David P.,3,421,580.
Herd, Harold H.: *See—*
Barrekette, Euval S.; Donath, Eric; and Herd, Harold H.,3,423,740.
Herd, Richard S.: *See—*
Otto, Ferdinand P.; and Herd, Richard S.,3,436,347.
Herd, Richard S.; and Otto, Ferdinand P., to Mobil Oil Corporation. Mixed carboxylate derivatives of basic alkaline earth metal sulfonates. 3,446,736, 5-27-69, Cl. 252-33.2
Herda, Klaus: *See—*
Scholer, Horst; and Herda, Klaus,3,464,759.
Herdeg, Donald F.; and Morgan, Paul E., to USM Corporation. Fabric handling machines. 3,430,949, 3-4-69, Cl. 271-63.
Herdlein, Richard J.: *See—*
Dwyer, Frank J.; and Herdlein, Richard J.,3,441,523.
Heredy, Laszlo A., to North American Rockwell Corporation. Absorbent regeneration using carbon regenerant. 3,438,727, 4-15-69, Cl. 23-181.
Heredy, Laszlo A., to North American Rockwell Corporation. High temperature galvanic cell. 3,441,446, 4-29-69, Cl. 136-100.
Heredy, Laszlo A., to North American Rockwell Corporation. Fusible alkali-metal salt electrolyte. 3,472,745, 10-14-69, Cl. 204-68.
Heredy, Laszlo A., to North American Rockwell Corporation. Electrolytic system for production of alkali metals. 3,472,746, 10-14-69, Cl. 204-68.
Heredy, Laszlo A., to North American Rockwell Corporation. Electrochemical method for recovery of sulfur oxides. 3,479,261, 11-18-69, Cl. 204-61.
Heredy, Laszlo A.; McKenzie, Donald E.; and Yosim, Samuel J., to North American Rockwell Corporation. Removal of sulfur oxides from flue gas. 3,438,722, 4-15-69, Cl. 23-2.
Herendeen, Carl E.: *See—*
Ragen, Robert A.; and Herendeen, Carl E.,3,474,238.
Herfurth, Horst: *See—*
Weisselberg, Arnold; and Herfurth, Horst,3,436,519.
Hergenrother, Rudolf C., to Raytheon Company. Image orthicon integrator device for an electrooptical correlation system. 3,474,286, 10-21-69, Cl. 315-12.
Hergenrother, William L., to Firestone Tire & Rubber Company, The. Polyethylene terephthalate stabilized with sodium pyrophosphate. 3,479,319, 11-18-69, Cl. 260-45.7
Herger, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Self-priming centrifugal pump. 3,457,871, 7-29-69, Cl. 103-113.
Hergert, Heinz, to Polrotor, Incorporated. Apparatus for electrifying and shearing of pile fabrics. 3,465,397, 9-9-69, Cl. 26-2.

Hergeth K.G. Maschinenfabrik und Apparatebau: *See*—
Baltzer, Erich, 3,449,807.
Hergonson, Robert W. Car washer. 3,421,169, 1-14-69, Cl. 15-21.
Hergott, Raymond W., to Tempking Corporation. Condenser unit for automotive vehicles. 3,424,236, 1-28-69, Cl. 165-122.
Hergt, Martin. Method and apparatus for corrosion prevention. 3,468,103, 9-23-69, Cl. 55-33.
Herickhoff, Robert J.: *See*—
Grundy, Gary L.; and Herickhoff, Robert J.,3,479,509.
Hering, Hans, to Daimler-Benz Aktiengesellschaft. Method and apparatus for mounting a burner nozzle. 3,453,826, 7-8-69, Cl. 60-39.74
Heringlake, Ralph: *See*—
Augustin, Horst; and Heringlake, Ralph,3,446,567.
Herion, Erich: *See*—
Ruchser, Erich, 3,424,427.
Herion, Erich, Jr., to Herion, Erich, Sr. Slide valve. 3,463,192, 8-26-69, Cl. 137-625.64
Herion, Erich, Sr.: *See*—
Herion, Erich, Jr., 3,463,192.
Herion, Erich. Press control. 3,473,570, 10-21-69, Cl. 137-625.64
Herkenberg, Wolfgang. Pile treating attachment for pile fabricating machines. 3,461,689, 8-19-69, Cl. 66-9.
Herkness, Frank G.; and Simmons, Charles W., Jr., to Budd Company, The. Apparatus for dispensing and measuring strand material. 3,434,215, 3-25-69, Cl. 33-127.
Herlach, Fritz: *See*—
Knoepfel, Heinz; and Herlach, Fritz,3,478,231.
Herlet, Adolf, to Siemens Aktiengesellschaft. PN-junction rectifier with non-flashover heat conductive ohmic connectors. 3,423,649, 1-21-69, Cl. 317-234.
Herlet, Adolf; and Patalong, Hubert, to Siemens Aktiengesellschaft. Semiconductor rectifier diode for power current with a particular doping. 3,439,239, 4-15-69, Cl. 317-235.
Herlinger, Heinz: *See*—
Gunther, Peter; and Herlinger, Heinz,3,450,647.
Hermach, Carl J.; and Tafel, Leonard, to Miehle-Goss-Dexter, Incorporated. Clamping arrangement for blanket in printing press. 3,425,348, 2-4-69, Cl. 101-415.1
Herman, Albert Dale; and Marx, Herbert Zeppo. Method and watch mechanism for actuation by a cardiac pulse. 3,426,747, 2-11-69, Cl. 128-2.05
Herman, Albert Dale; and Marx, Herbert Zeppo, to Lifeguard Watch, mesne. Cardiac pulse-rate monitor. 3,473,526, 10-21-69, Cl. 128-2.05
Herman, Ben H., to Motorola, Inc. Mode coupled discriminator. 3,487,318, 12-30-69, Cl. 329-117.
Herman, Charles O.; and Funkhouser, John G., to Air Reduction Company, Incorporated, mesne. Process of corrosion inhibition with 1-hexyn-3-ol. 3,428,566, 2-18-69, Cl. 252-146.
Herman, David: *See*—
Lerner, Julius O., 3,438,020.
Herman, David; and Small, Sollie W., to Coffee-Mat Corporation. Indexed motor control device. 3,478,238, 11-11-69, Cl. 310-77.
Herman, Herbert R.: *See*—
Miranda, Thomas J.; and Herman, Herbert R.,3,438,943.
Herman, Irving; and Andreassen, Donald, to Chamberlain Manufacturing Corporation. Continuous rod mat. 3,434,422, 3-25-69, Cl. 102-67.
Herman, Martin Andrew. Template positioning means for gages. 3,473,231, 10-21-69, Cl. 33-174.
Herman Miller, Inc.: *See*—
Beckman, Ronald H., 3,449,877.
Propst, Robert L.; and Kelley, James O., 3,430,997.
Herman, Neil H.; and Vincent, Donat A.A., to United States of America, Army, mesne. Three-phase A.C. regulator employing D.C. controlled magnetic amplifiers. 3,475,678, 10-28-69, Cl. 323-89.
Herman, Nicholas: *See*—
Thumim, Carl; Herman, Nicholas; and Des Jardins, James,3,424,044.
Herman, Pinky. Baseball shoe safety protector. 3,481,055, 12-2-69, Cl. 36-72.
Herman, Raymond, to Richmond Research Corporation. Self-threading motion picture projector. 3,478,944, 11-18-69, Cl. 226-67.
Herman, Robert Wilson; and Hadden, Edward Leal, to AMP Incorporated. Mounting means for an electrical connector. 3,466,589, 9-9-69, Cl. 339-14.
Herman, Roumaine J. Crutch attachment. 3,429,541, 2-25-69, Cl. 248-302.
Herman, Stephen; and Stark, Edward W., to Sperry Rand Corporation. Optical reflectors. 3,476,930, 11-4-69, Cl. 240-41.35
Herman, Walter H., to Scott Paper Company. Method and apparatus for winding a multiple ply web. 3,470,052, 9-30-69, Cl. 156-184.
Herman, Walter H.; Ray, Walter S.; and Crowe, Robert C., to Scott Paper Company. Metering and dispensing device for viscous liquids. 3,457,896, 7-29-69, Cl. 118-211.
Herman, Walter H.: *See*—
Johansen, John H.; and Herman, Walter H.,3,441,129.
Herman, William R.; and Kortesoja, Victor A., to Ford Motor Company. Steel fastening pin for a draw die bead. 3,473,363, 10-21-69, Cl. 72-347.
Hermann, Ferdy: *See*—
Ullmann, Werner; and Hermann, Ferdy,3,450,456.
Hermann, Georges, to Societe Industrielle des Coussinets. Antifriction compositions and method of applying the same on a substrate. 3,467,596, 9-16-69, Cl. 252-12.
Hermann, Gunther: *See*—
Fest, Christa; and Hermann, Gunther,3,442,932.
Heiss, Rudolf; Grigat, Ernst; Bocker, Ernst; and Hermann, Gunther,3,458,639.
Malz, Hugo; and Hermann, Gunther,3,454,681.
Hermann, Hans: *See*—
Helmberger, Hermann; Dietz, Wolfgang; Gutberlet, Fritz; Hermann, Hans; and Wittmann, Hans, a/k/a Wittmann, Johan,3,421,054.
Hermann, Jean; Paratte, Daniel; and Forrer, Max, to Centre Electronique Horloger S.A. Device for transforming an oscillating motion into a unidirectional rotation. 3,484,804, 12-16-69, Cl. 58-23.
Hermann, John A.; and Garrett, Donald E., to Kerr-McGee Corporation. Method of recovering ammonia and hydrogen chloride from gases. 3,450,490, 6-17-69, Cl. 23-2.
Hermann, Karl Heinz; and Rudolph, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Polyamides stabilized with combination of a copper compound and a phosphonium halide. 3,477,986, 11-11-69, Cl. 260-45.75
Hermann, Karl-Heinz; Schnell, Hermann; Schneider, Rudolf; and Spott, Georg, to Farbenfabriken Bayer Aktiengesellschaft. Process for the continuous removal of monomeric and oligomeric fractions from nitrogen containing polymers. 3,447,583, 6-3-69, Cl. 159-49.
Hermann, Otto, to Le Blond, R. K., Machine Tool Co., The. Crankshaft lathe. 3,460,413, 8-12-69, Cl. 82-9.
Hermann, Robert: *See*—
Copony, Edward L.; Pedroli, Walter E.; and Hermann, Robert,3,434,155.
Hermann, Robert. Positive count pinionless odometer and reset means therefor. 3,458,127, 7-29-69, Cl. 235-95.
Hermann Wangner Kommanditgesellschaft: *See*—
Kurtz, Manfred; and Bangert, Lothar, 3,432,126.
Hermann Wiederhold: *See*—
Blau, Hans; and Stoof, Gerhard, 3,421,597.
Hermann Wiederhold, Firma: *See*—
Neuhaus, Hermann Friedrich, 3,460,959.
Hermanns, Alfred Hans, to Admiral Equipment Corporation. Double belt for manufacture of panels and the like. 3,462,795, 8-26-69, Cl. 18-4.
Hermanns, Henry, to Fischer & Porter Co. Self-cleaning electrodes. 3,479,873, 11-25-69, Cl. 73-194.
Hermanns, Klaus: *See*—
Lautsch, Hermann; Jacob, Hans-Ludwig; Hermanns, Peter; and Hermanns, Klaus,3,467,210.
Hermanns, Peter: *See*—
Lautsch, Hermann; Jacob, Hans-Ludwig; Hermanns, Peter; and Hermanns, Klaus,3,467,210.
Hermanson, Bernard A., to Dual Jet Refrigeration Co. Refrigerated cabinet with circulating air streams. 3,420,070, 1-7-69, Cl. 62-256.
Hermanson, Bernard A.: *See*—
Vogel, Robert E.; Hermanson, Bernard A.; and Kuykendall, Earl G.,3,465,536.
Hermanson, Herman A.: *See*—
Squassoni, Gino F.; Hermanson, Herman A.; McCarroll, Alan F.; and Zurovskis, Egon,3,442,588.
Hermanson, Ronald O.; and Hellthaler, Arno, to Teleflex Incorporated. Motion transmitting remote control assembly. 3,479,903, 11-25-69, Cl. 74-502.
Hermansson, Rolf Torsten: *See*—
Polhall, Karl Olof Adolf; Hermansson, Rolf Torsten; and Olsson, Roy Erik Tore,3,443,400.
Hermelin, Marc S.: *See*—
Cashen, Terry F.; and Hermelin, Marc S.,3,476,497.
Hermes, Heinz; and Volkner, Wolfgang, to Licentia Patent-Verwaltungs-G.m.b.H. Aircraft deicing system. 3,453,415, 7-1-69, Cl. 219-486.
Hermes, Julius, to Martin Processing Co., Incorporated. Patterned application of benzyl alcohol with or without a resist on nylon fabrics and dyeing the patterned fabric. 3,467,484, 9-16-69, Cl. 8-15.
Hermes, Walter L.; and Jones, Charles, to Curtis-Wright Corporation. Exhaust gas reactor. 3,486,326, 12-30-69, Cl. 60-29.
Hermes, Walter: *See*—
Jones, Charles; and Hermes, Walter,3,456,625.
Hermes, Willem: *See*—
Rodenburg, Nicolaas; and Hermes, Willem,3,456,191.
Hermetic Coil Co., Inc.: *See*—
Davis, Dhu Aine J., 3,423,814.
Davis, Dhu Aine J., 3,453,575.
Davis, Dhu Aine J., 3,457,534.
Davis, Dhu Aine J., 3,458,841.

Hermitte, Franco Barbieri; and Angeletti, Mario, to Montecatini Edison S.p.A. Thermosealable polyolefin film. 3,457,101, 7-22-69, Cl. 117-76.
Hermitte, Franco Barbieri; and Angeletti, Mario, to Montecatini Edison S.p.A. Coated polyolefin films and process for preparing them. 3,485,653, 12-23-69, Cl. 117-7.
Hermiz, Ramiz Y.: *See—*
Deli, Jack M.; and Hermiz, Ramiz Y.,3,447,837.
Duke, Edward D.; and Hermiz, Ramiz Y.,3,479,754.
Hermiz, Ramiz Y., to International Harvester Company. Pivot for tandem scraper. 3,443,826, 5-13-69, Cl. 280-492.
Hermiz, Ramiz Y.; and Duke, Edward D., to International Harvester Company. Sliding scraper floor support. 3,462,860, 8-26-69, Cl. 37-129.
Hermle, Eduard. Adjustable switch actuating arrangement. 3,483,344, 12-9-69, Cl. 200-153.
Hermsen, Andreas A. M.: *See—*
Jacobs, Jacques M. H.; Hermsen, Andreas A. M.; Hendriks, Aalbert J.; and Teeling, Gerhardus A. M.,3,423,076.
Hermstad, Norman H.: *See—*
Gordon, Fred G.; and Hermstad, Norman H.,3,427,719.
Hern, Geoffrey Benjamin. Building bricks or blocks and structures utilising the same. 3,449,878, 6-17-69, Cl. 52-293.
Hern, Geoffrey Benjamin. Elongated structural units. 3,461,636, 8-19-69, Cl. 52-650.
Hernandez, Juan E.: *See—*
Miller, John, 3,453,015.
Hernandez, Luis A., Jr. Quick freeze-drying system and apparatus therefor. 3,448,527, 6-10-69, Cl. 34-5.
Herndon, Carl Douglas: *See—*
Aliff, Rufus G., Jr.; Herndon, Carl Douglas; and Miller, Thomas Dalton,3,472,444.
Herndon, John A.: *See—*
Dore, Arthur J.; Herndon, John A.; and Wasserman, Norman,3,447,036.
Herniman, Peter Douglas; and Lickman, David Austin, to Smith, T. J., & Nephew Limited. Surgical dressings. 3,434,472, 3-25-69, Cl. 128-156.
Hernqvist, Karl G., to RCA Corporation. Sputter resistive cold cathode for low pressure gas discharge device. 3,486,058, 12-23-69, Cl. 313-211.
Hernqvist, Karl G.; and Levine, Jules D., to United States of America, Atomic Energy Commission, mesne. Method of operating a thermionic converter. 3,452,224, 6-24-69, Cl. 310-4.
Hero, Franz; Odermatt, Karl; and Muller, Walter. Suspension mounting for home-constructed furniture. 3,487,446, 12-30-69, Cl. 248-223.
Herold, Carl D., Jr.: *See—*
Blair, David J.; and Herold, Carl D., Jr.,3,435,344.
Herold, Gerhard: *See—*
Hauck, Gunther; Herold, Gerhard; and Schroer, Hans-Gunther,3,469,801.
Herold, Manfred; and Brosig, Adolf, to Maybach Mercedes-Benz Motorenbau GmbH. Hydrodynamic brake and regulating means therefor. 3,476,218, 11-4-69, Cl. 188-90.
Herold, Milos: *See—*
Culik, Karel; Herold, Milos; Palkoska, Josef; Sikyta, Bohumil; and Slezak, Josef,3,429,781.
Culik, Karel; Palkoska, Josef; Vondracek, Miloslav; Skoda, Jan; and Herold, Milos,3,429,780.
Vondracek, Miloslav; Slezak, Josef; Herold, Milos; and Culik, Karel,3,425,911.
Herold, Robert J., to General Tire & Rubber Company, The. Double metal cyanides complexed with an acyclic aliphatic saturated monoether, an esther and a cyclic ether and methods for making same. 3,427,335, 2-11-69, Cl. 260-429.
Herold, Robert J., to General Tire & Rubber Company, The. Novel rubbery polyoxyalkylene copolymers. 3,442,876, 5-6-69, Cl. 260-80.3
Herold, Rodolphe Andre, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electric feeding installation on internal combustion vehicles and engines. 3,463,995, 8-26-69, Cl. 320-6.
Herold, Wilhelm Hans; and Rubi, Gustav Ernst, to Werner & Pfleiderer. Valves for centrifugal pumps. 3,446,233, 5-27-69, Cl. 137-119.
Herold, Willy, to Werner & Pfleiderer. Spraying device for cleaning workpieces. 3,452,935, 7-1-69, Cl. 239-533.
Heroldova, Josefa: *See—*
Culik, Karel; Palkoska, Josef; Vondracek, Miloslav; Skoda, Jan; and Herold, Milos,3,429,780.
Heron, Andrew George, to Heron Electrical Devices Limited. Temperature-increase warning device. 3,464,047, 8-26-69, Cl. 337-332.
Heron Electrical Devices Limited: *See—*
Heron, Andrew George, 3,464,047.
Heron, Gordon F.; Halstead, John O.; and Gettins, Robert B., to Turner Brothers Asbestos Company Limited. Manufacture of asbestos. 3,449,227, 6-10-69, Cl. 204-180.
Heron, Gordon F.; and Halstead, John Outram, to Turner Brothers Asbestos Company Limited. Manufacture of asbestos products. 3,449,230, 6-10-69, Cl. 204-180.
Heron, John Aherne. Method of shell moulding and casting. 3,480,071, 11-25-69, Cl. 164-36.
Herou, Lars Borje Svante. Roller screens. 3,448,943, 6-10-69, Cl. 242-107.
Herp, Henry Carl, Jr., to Girdler Corporation. Ammonia converter. 3,484,215, 12-16-69, Cl. 23-289.
Herp, Henry Carl, Jr.; Kelsall, Avery Crowell; Bowker, Gordon Stanley; and Bennett, Hilton Alvin, Jr., to Girdler Corporation. Modular reformer furnace. 3,453,087, 7-1-69, Cl. 23-288.
Herpich, William M., to Torrington Company, The. Punch and die devices. 3,471,878, 10-14-69, Cl. 10-7.
Herr, David D. Article carrying vehicle with optional stowable riding attachment. 3,485,314, 12-23-69, Cl. 180-19.
Herr, Edward R.; and Sumrall, George E., to United States of America, Army. Manual electronic keyboard. 3,464,531, 9-2-69, Cl. 197-98.
Herr, Gerhard, to Gebr. Happich G.m.b.H. Molding strips for vehicle bodies. 3,471,979, 10-14-69, Cl. 52-100.
Herr, Gerhard; and Mahler, Gert. Upholstered mirror, process of manufacturing said mirror and apparatus for carrying out the process. 3,448,553, 6-10-69, Cl. 52-400.
Herr, Gerhard; and Treber, Willi O. Cover molding, particularly for motor vehicle bodies. 3,448,550, 6-10-69, Cl. 52-98.
Herr, Gerhard; and Treber, Willy O., to Gebr. Happich G.m.b.H. Molding strip for automobile bodies. 3,487,420, 12-30-69, Cl. 52-98.
Herr, John A., to Singer Company, The. Electrically controlled fluid amplifier. 3,428,066, 2-18-69, Cl. 137-81.5
Herr, John H.; and Stauffer, Aaron Z. Bottom discharge for silo. 3,424,350, 1-28-69, Cl. 222-63.
Herr, John S., to Naeve, Daniel A., mesne. Method of preparing a water- soluble protein lotion. 3,483,008, 12-9-69, Cl. 106-161.
Herr, Joseph Stanley. Air lock. 3,460,869, 8-12-69, Cl. 301-50.
Herr, Robert W., to United States of America, National Aeronautics and Space Administration. Harness for vertically supporting slender bodies for vibration testing. 3,421,363, 1-14-69, Cl. 73-67.2
Herr, Theodore R. Air pressure operated ball pitching device. 3,465,742, 9-9-69, Cl. 124-11.
Herrell, Robert C., to Baker-Roos, Inc. Cylinder assembly. 3,452,647, 7-1-69, Cl. 92-23.
Herrell, Robert C.; and Roggie, William C., to Baker Roos, Inc. Scaffold truck. 3,452,837, 7-1-69, Cl. 182-17.
Herrell, Robert C.: *See—*
Smith, James R.; Herrell, Robert C.; and Burch, James B.,3,456,899.
Herrenkohl, Leo E.; and Ghio, Vincent, J., Jr., to Pacific Gas and Electric Company. Pole top mounting bracket for electrical transmission line. 3,445,582, 5-20-69, Cl. 174-43.
Herrera C., Crisogono. Device for supporting a fisherman over a body of water. 3,472,339, 10-14-69, Cl. 182-116.
Herrera, Dan B. Air brake and operator therefor. 3,439,585, 4-22-69, Cl. 92-130.
Herrera, John C., to High Voltage Engineering Corporation. Charged particle beam spreader system including three in-line quadraple magnetic lenses. 3,482,136, 12-2-69, Cl. 313-63.
Herrera, Juan Hernandez. Brewing apparatus. 3,451,329, 6-24-69, Cl. 99-290.
Herrera, Mario I.: *See—*
Balhorn, Robert J.; and Herrera, Mario I.,3,483,621.
Herrero, Jose Luis; and Willoner, Gideon, to Automatic Electric Laboratories, Inc. Active parallel-T filter having separate feedback paths. 3,473,142, 10-14-69, Cl. 330-107.
Herrgard, Ole Hilding: *See—*
Lundstrom, Hans Per Olof; and Herrgard, Ole Hilding,3,463,270.
Herrick, Clifford C., to New York Central Railroad Company, The. Rail temperature regulating apparatus. 3,451,470, 6-24-69, Cl. 165-42.
Herrick, Clifford E., Jr., to GAF Corporation, mesne. Light-sensitive aluminum plate for lithography. 3,471,289, 10-7-69, Cl. 96-33.
Herrick, Clifford E., Jr.; and Hwang, Ho Chien, to Summer Williams, Inc. Emulsion developers for lithographic plates. 3,481,740, 12-2-69, Cl. 96-91.
Herrick, Clifford E., Jr.: *See—*
Evleth, Earl M.; and Herrick, Clifford E., Jr.,3,484,241.
Herrick Corporation, The: *See—*
Sturges, Richard A.; and Richards, Lewis B., 3,426,478.
Herrick, Donald W.; and Beam, Robert A., to Northrop Corporation. Optical sight. 3,423,155, 1-21-69, Cl. 356-252.
Herrick, Franklin W.; and Bock, Louis H., to ITT Rayonier Incorporated. Polymethylol phenol and phenolic resins. 3,454,508, 7-8-69, Cl. 260-17.5
Herrick, William G.: *See—*
Diener, Carl E.; and Herrick, William G.,3,469,983.
Herriges, Joseph R.: *See—*
Gibbs, Norman R.; and Herriges, Joseph R.,3,437,578.

Herriman, John Dennis; and Hare, Alan Lawrence, to British Titan Products Company Limited. Method for the production of metal oxide particles by vapor phase oxidation. 3,464,792, 9-2-69, Cl. 23-202.
Herring, David L.; and Douglas, Catherine M., to United States of America, Navy. Process for preparing diphenyl- phosphonitrile trimer and tetramer. 3,454,634, 7-8-69, Cl. 260-551.
Herring, David L.; and Douglas, Catherine M., to United States of America, Navy. Polymerization of cyclic phosphonitriles with orthophosphate esters. 3,457,196, 7-22-69, Cl. 260-2.
Herring, Mark, to Ace Bingo, Inc. Bingo board with slides firmly held in covering position. 3,468,541, 9-23-69, Cl. 273-136.
Herring, Walter Raymond, to Container Corporation of America. Method for providing a substrate with a liner. 3,440,709, 4-29-69, Cl. 29-450.
Herringshaw, Tobias J.: *See—*
De Remer, James E.; Herringshaw, Tobias J.; and Parent, John W.,3,451,534.
Herrington, Bernard B.; and Stout, James M. Apparatus for supporting auxiliary panels while painting automobile bodies. 3,486,481, 12-30-69, Cl. 118-503.
Herrington, Katherine A.: *See—*
Zemlin, John C.; and Herrington, Katherine A.,3,459,198.
Herrington, Richard A.: *See—*
O'Connell, Thomas B.; and Herrington, Richard A.,3,454,389.
Herrington, Sanford W. Separator. 3,486,314, 12-30-69, Cl. 55-408.
Herriott, Donald R.: *See—*
Hagelbarger, David W.; and Herriott, Donald R.,3,461,298.
Herriott, Donald R.; Jones, Joseph S.; Meeker, Thrygve; and Reznicek, Kurt, to Bell Telephone Laboratories, Incorporated. Method and apparatus for bonding transducer elements. 3,453,166, 7-1-69, Cl. 156-295.
Herriott, Donald R.; Perry, Darwin L.; and Wimperis, Jeffery R., to Bell Telephone Laboratories, Incorporated. Method of making optical components. 3,466,120, 9-9-69, Cl. 350-320.
Herriott, Donald R.; and Schulte, Harry J., Jr., to Bell Telephone Laboratories, Incorporated. Optical delay line devices. 3,437,954, 4-8-69, Cl. 331-94.5
Herrle, Karl; Baumann, Karl Heinz; Beckmann, Wilhelm; and Heil, Eduard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous emulsion polymerization. 3,458,467, 7-29-69, Cl. 260-29.6
Herrli, Jack W. Electrical terminal block. 3,451,037, 6-17-69, Cl. 339-192.
Herrlinger, Richard; Kirkland, Claude James; and Ciesielski, Leo Frank, to Arizona Chemical Company. Recovery of turpentine from black liquor. 3,432,402, 3-11-69, Cl. 203-37.
Herrmann, Eldor R.: *See—*
Webb, John M.; and Herrmann, Eldor R.,3,465,420.
Herrmann, Hans: *See—*
Wirth, Heinz; Helmberger, Hermann; and Herrmann, Hans,3,434,803.
Herrmann, Johannes: *See—*
Wilde, Friedrich; and Herrmann, Johannes,3,473,537.
Herrmann, Karl E.: *See—*
Clark, Kendall; Herrmann, Karl E.; and Klein, William A.,3,477,051.
Herrmann, Karl-Heinz; and Krahl, Dieter, to Siemens Aktiengesellschaft. Deflector system for corpuscular-beam apparatus. 3,453,485, 7-1-69, Cl. 315-14.
Herrmann, Karl, to Patent-Freuhand-Gesellschaft fur Elektrische Gluhlampen m.b.H. Series flash device. 3,443,875, 5-13-69, Cl. 431-95.
Herrmann, Marion: *See—*
Witte, Josef; Herrmann, Marion; Woidt, Jurgen; and Peters, Freimut,3,457,111.
Herrmann, Otto: *See—*
Steinke, Leo; Sohner, Gerhard; Hurst, Kurt; Gerber, Richard; Frimmel, Karl; and Herrmann, Otto,3,486,075.
Herrmann, Theodor: *See—*
Clark, Kendall; Herrmann, Theodor; Lattin, Jocelyn C.; and Medwid, John,3,465,408.
Herrmann, Thomas R.: *See—*
Beekes, Hugh A.; Herrmann, Thomas R.; Lipp, Melbourne A.; Olson, Henning H.; and Schleicher, Allen K.,3,466,845.
Herrmann, Walter L.; and Spadoni, Leon R. Dialyzer apparatus and method. 3,485,751, 12-23-69, Cl. 210-22.
Herron, Bill G.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,458,726.
Herschede Hall Clock Company, The: *See—*
Bouchillon, Charles W., 3,422,902.
Herscher, Leonard W.; and Bartz, Arnold M., to Dow Chemical Company, The. Combination water detector and automatic shutoff valve. 3,472,253, 10-14-69, Cl. 137-67.
Herschman, Nathan B. Articles for creating unidirectional vision effects. 3,451,877, 6-24-69, Cl. 161-3.
Hersel, Jorge J.: *See—*
Ellis, Stancel C.; Hersel, Jorge J.; Johnson, Louis H.; Nelson, Ralph H.; and Yost, Roderick A.,3,454,342.
Hersey, Arthur T.; and Brownmiller, Lorrin T., to Alpha Portland Cement Company. Seam cured cement and process. 3,447,937, 6-3-69, Cl. 106-89.
Hersey-Sparling Meter Company: *See—*
Curtiss, Alan Clarkson, 3,448,763.
Curtiss, Alan Clarkson; and Hood, Roger Williams, 3,478,778.
Gassaway, James Scott, 3,448,457.
Hersh, Harold R., to United States of America, Air Force. Elastomeric foamable ablation composition. 3,429,838, 2-25-69, Cl. 260-2.5
Hersh, Harold R.; and Boyce, John E., to Atlantic Richfield Company. Foamable polyvinyl chloride compositions and process of making foams therefrom. 3,432,452, 3-11-69, Cl. 260-2.5
Hersh, Sidney; and Baller, Maurice H., to United States of America, Navy. Missile cutting device. 3,468,213, 9-23-69, Cl. 89-1.8
Hershberg, Emanuel B.; and Wolkoff, Hal N., to Schering Corporation. Sealed injection vial. 3,424,329, 1-28-69, Cl. 215-37.
Hershberg, Emanuel B.: *See—*
Reimann, Hans; and Hershberg, Emanuel B.,3,422,123.
Hershberger, Doran D., to General Electric Company. Single-phase induction electric motor. 3,421,034, 1-7-69, Cl. 310-172.
Hershberger, Doran D., to General Electric Company. Signal generating device for use in conjunction with a dynamoelectric machine and the like. 3,480,812, 11-25-69, Cl. 310-168.
Hershelman, Jack G., to Hercules Incorporated. Epihalohydrin polymer recovery. 3,485,773, 12-23-69, Cl. 260-2.
Hershenov, Bernard, to Radio Corporation of America. Dielectrically-loaded, parallel-plane microwave ferrite devices. 3,425,001, 1-28-69, Cl. 333-1.1
Hershenov, Bernard, to RCA Corporation. Single ground plane junction circulator having dielectric substrate. 3,456,213, 7-15-69, Cl. 333-1.1
Hershey, Gerald L.; and Johnson, Donald A., to Coleman Company, Inc., The. Through-the-roof flue and air intake assembly. 3,430,549, 3-4-69, Cl. 98-62.
Hershey, Henry. Safety rotary blade for a lawnmower. 3,420,043, 1-7-69, Cl. 56-295.
Hershey, Howard S., Jr., to Teledyne, Inc., mesne. Variable traction conveyor. 3,428,163, 2-18-69, Cl. 198-41.
Hershey, Lowell E., to Durametallic Corporation. Floating face sealing ring. 3,420,535, 1-7-69, Cl. 277-92.
Hershey, Lowell E., to Durametallic Corporation. Internally cooled seal assembly. 3,467,396, 9-16-69, Cl. 277-74.
Hershey, Lowell E., to Durametallic Corporation. Cooling system for a stuffing box seal. 3,477,729, 11-11-69, Cl. 277-1.
Hershler, Abe. Surface treating device. 3,423,880, 1-28-69, Cl. 51-7.
Hershler, Abe, to Magneto Dynamics, Inc. Method for the production and control of fluidized beds. 3,439,899, 4-22-69, Cl. 259-1.
Hershoff, Leonard: *See—*
Gilvey, John P.; and Hershoff, Leonard,3,445,707.
Hertel, Hasso, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Stable aqueous dispersions of o-dianisidine fast to storing, for the preparation of water-insoluble azo -dyestuffs on fibrous materials. 3,425,785, 2-4-69, Cl. 8-46.
Hertel, Hasso, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Diazo amino-containing pulverulent dyeing preparations showing reduced dust formation. 3,453,066, 7-1-69, Cl. 8-45.
Hertel, Hasso; and Kirst, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of water-insoluble azo dyestuffs on textile material comprising cellulose or protein fibers. 3,441,364, 4-29-69, Cl. 8-46.
Hertel, Hasso; and Kirst, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of water-insoluble azo dyestuffs on textile material of cellulose or protein fibers. 3,484,181, 12-16-69, Cl. 8-45.
Hertel, Heinrich: *See—*
Denning, Ralph Murch; Hertel, Heinrich; and Harmsen, Siegfried,3,447,764.
Hertel, Heinrich. Window construction for fuselages of aircraft. 3,429,530, 2-25-69, Cl. 244-129.
Hertel, Heinrich. Aircraft tail. 3,455,523, 7-15-69, Cl. 244-55.
Hertel, Heinrich. Body for light at high subsonic speed. 3,476,336, 11-4-69, Cl. 244-130.
Hertel, Heinz Wolfgang; and Reiche, Asmus, to Behringwerke Aktiengesellschaft. Casing for devices for intradermal application. 3,444,989, 5-20-69, Cl. 206-1.
Hertel, Karl, to Auto Union G.m.b.H. Vehicular steering device. 3,433,501, 3-18-69, Cl. 280-96.
Hertell, Siegfried, to Teves, Ate A., Maschinen- und Armaturenfabrik KG. Hydraulic control system for vehicular brakes and the like. 3,439,500, 4-22-69, Cl. 60-54.5
Hertell, Siegfried, to Teves, Alfred, G.m.b.H. Hydraulic-pressure accumulator. 3,474,830, 10-28-69, Cl. 138-30.
Hertenstein, Walter, to Azoplate Corporation, mesne. Etching grill for one-step etching machines. 3,429,763, 2-25-69, Cl. 156-345.
Herter, Eberhard, to International Standard Electric Corporation. D.C. signaling using a capacitor store to speed response time. 3,441,683, 4-29-69, Cl. 179-84.

Herter, Eberhard, to International Standard Electric Corporation. Key controlled direct current signalling systems. 3,454,724, 7-8-69, Cl. 179-84.
Herter, Eberhard, to International Standard Electric Corporation. Direct current signal receiver. 3,478,175, 11-11-69, Cl. 179-18.
Herter's Inc.:*See*—
Hofmeister, Russell N., 3,421,251.
Hofmeister, Russell N., 3,444,853.
Hertl, Albert, to Hydraulik G.m.b.H. Manipulator for forging press. 3,468,154, 9-23-69, Cl. 72-421.
Hertl, William, to Corning Glass Works. Method for making fibers of titanium carbide and of titatanium dioxide. 3,437,443, 4-8-69, Cl. 23-202.
Hertl, William, to Corning Glass Works. Manufacture of silicon carbide fibers. 3,447,952, 6-3-69, Cl. 117-106.
Hertlein: *See*—
Brotz, Walter; Runge, Dietrich; and Albrecht, Manfred Karl Furchtegott,3,442,837.
Hertler, Walter R., to Du Pont de Nemours, E. I., and Company. Azaboranes. 3,428,439, 2-18-69, Cl. 23-358.
Hertler, Walter R., du Pont de Nemours, E. I., and Company. Boron-nitrogen compounds and process for the preparation thereof. 3,429,923, 2-25-69, Cl. 260-570.9
Hertler, Walter R., to Du Pont de Nemours, E. I., and Company. Novel boron containing compounds and process for their preparation. 3,438,747, 4-15-69, Cl. 23-315.
Hertoghe, Adrienne F.: *See*—
Hertoghe, Leo C.; and Hertoghe, Adrienne F.,3,438,651.
Hertoghe, Leo C.; and Hertoghe, Adrienne F.Safety feather attachment for child's vehicle. 3,438,651, 4-15-69, Cl. 280-289.
Hertrich, Friedrich R., to International Business Machines Corporation. High performance random access memory. 3,462,751, 8-19-69, Cl. 340-174.1
Hertwig, Paul O.: *See*—
Buttram, Robert J., 3,443,705.
Hertz, Gerald, to Crompton & Knowles Corporation. Electrolytic treatment of waste dye liquor. 3,485,729, 12-23-69, Cl. 204-131.
Hertz, Jerome J.: *See*—
Lupinski, John H.; and Hertz, Jerome J.,3,424,698.
Lupinski, John H.; and Hertz, Jerome J.,3,481,840.
Hertz, Theodore M., to North American Rockwell Corporation. System for processing data into an organized sequence of computer words. 3,427,596, 2-11-69, Cl. 340-172.5
Hertz, Warner Affiliated Corp.: *See*—
Kales, Rene, 3,432,451.
Hertzberg, Abraham; and Hurle, Ian R., to Cornell Aeronautical Laboratory, Inc. Method and apparatus for creating electronic population inversions leading to laser action by convective fluid mechanical techniques. 3,487,333, 12-30-69, Cl. 331-94.5
Hertzberg, Gunther: *See*—
Munder, Johannes; and Hertzberg, Gunther,3,434,838.
Hertzberg, Samuel. Stanchion support apparatus for a pair of curtain traverse rods with draw cords. 3,478,807, 11-18-69, Cl. 160-344.
Hertzendorf, Martin S.: *See*—
Pfluger, Richard A.; Schulman, Marvin; and Hertzendorf, Martin S.,3,482,990.
Hertzsch, Hans B., to Deutscher Spinnereimaschinenbau Ingolstadt Niederlassung der Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Can changing in strand material handling. 3,443,287, 5-13-69, Cl. 19-159.
Herubel, Jean Frederic, to Schlumberger, N., & Cie. Roving frame. 3,421,306, 1-14-69, Cl. 57-71.
Herubel, Jean Frederic. Rotary funnels employed for winding fibre slivers in crossed reels. 3,421,706, 1-14-69, Cl. 242-54.4
Herubel, Jean Frederic, to Schlumberger, N., & Cie. Mechanism for effecting rising and falling movements of spindles for textile bobbins. 3,447,300, 6-3-69, Cl. 57-95.
Herubel, Jean Frederic, to Schlumberger, N., & Cie. Top roller arrangement in drafting systems of textile machines. 3,475,792, 11-4-69, Cl. 19-267.
Herubel, Jean-Frederic, to Schlumberger, N., & Cie. Belt drive for spindles on continuous spinning or twisting frames. 3,479,809, 11-25-69, Cl. 57--105
Herubel, Jean-Frederic, to Schlumberger, N., & Cie. Combing machine. 3,486,199, 12-30-69, Cl. 19-230.
Herve, Marcel J. F. Negative feedback phonograph pick-up arm systems. 3,471,655, 10-7-69, Cl. 179-100.4
Hervert, George L., to Universal Oil Products Company. Means for preventing hydrocarbon losses from an engine carburetor system. 3,456,635, 7-22-69, Cl. 123-136.
Hervert, George L., to Universal Oil Products Company. Isomerization process. 3,467,728, 9-16-69, Cl. 260-683.2
Hervert, George L., to Universal Oil Products Company. Formation of a catalyst carrying alumina surface on a base element. 3,471,413, 10-7-69, Cl. 252-463.
Hervert, George L., to Universal Oil Products Company. Hydrocarbon vapor control means for use with engine carburetor. 3,477,210, 11-11-69, Cl. 55-387.
Hervert, George L.; and Weber, Harold C., to Universal Oil Products Company. Internally lined reactor for high temperatures and pressures and leakage monitoring means therefor. 3,472,632, 10-14-69, Cl. 23-290.
Hervert, George L.: *See*—
Vesely, Jerome A.; and Hervert, George L.,3,453,332.
Hervey, David E. Sawmill. 3,448,780, 6-10-69, Cl. 143-39.
Hervig, Harold C.; and Leach, Edward E., to Minnesota Mining and Manufacturing Company. Insulating device, composition, and method. 3,446,741, 5-27-69, Cl. 252-63.
Herweh, John E.; and Poshkus, Algirdas C., to Armstrong Cork Company. Phosphorus-containing sulfonylhydrazides. 3,423,485, 1-21-69, Cl. 260-923.
Herwig, George L.: *See*—
Foley, Ernest; and Herwig, George L.,3,464,900.
Herwig, Hans Ulrich, to Glanzstoff AG. Process for improving the uniformity of the modulus of elasticity in a draw twist wound thread cop. 3,477,221, 11-11-69, Cl. 57-157.
Herwig, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of cyclododecatriene-(1,5,9). 3,444,254, 5-13-69, Cl. 260-666.
Hery, Jean Francois: *See*—
Chasse, Colette Marie; and Hery, Jean Francois,3,444,567.
Herynk, Milon: *See*—
Blazek, Otta; Herynk, Milon; and Rybar, Josef,3,475,973.
Herz, Jack L.: *See*—
Litt, Morton H.; and Herz, Jack L.,3,470,267.
Herzberg, Kurt, to Behringwerke Aktiengesellschaft. Influenza vaccines and process for their manufacture. 3,422,187, 1-14-69, Cl. 424-89.
Herzberg, Roland J., to Ametek, Inc. Testing machine. 3,443,422, 5-13-69, Cl. 73-81.
Herzegh, Frank, to Goodrich, B. F., Company, The. Tire test slitting device. 3,443,315, 5-13-69, Cl. 30-273.
Herzfeld, Fred; and van Hekken, Frans, to RCA Corporation. Cathode ray tube and method of manufacture. 3,476,025, 11-4-69, Cl. 95-1.
Herzig, Albert M.; and Menkin, Banjamin David. Squeezable containers. 3,486,666, 12-30-69, Cl. 222-494.
Herzig, Albert M.; and Menkin, Benjamin David. Method of cutting and scoring a squeeze container closure. 3,426,629, 2-11-69, Cl. 83-7.
Herzig, Albert M.; and Menkin, Benjamin David. Method and apparatus for making automatic closure for squeeze containers. 3,451,120, 6-24-69, Cl. 29-446.
Herzig, Albert M.; and Menkin, Benjamin David. Apparatus for fabricating automatic closures. 3,469,478, 9-30-69, Cl. 83-9.
Herzig, Daniel E. Conduit holding device. 3,429,535, 2-25-69, Cl. 248-58.
Herzog, Ernst Gerhard: *See*—
Furst, Andor; and Herzog, Ernst Gerhard,3,476,781.
Herzog, Hans: *See*—
Kabisch, Gerhard; and Herzog, Hans,3,423,176.
Herzog, Hans; and Kabisch, Gerhard, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Method of separating suspended unsupported noble metal catalysts from hydrogenated liquids. 3,433,358, 3-18-69, Cl. 210-65.
Herzog, Hermann, deceased (by Herzog, Johanna, heir); and Hintze, Woldemar, to Dynamit Nobel Aktiengesellschaft. Nitrocellulose explosive containing a charcoal binder-oxidizer mixture. 3,473,982, 10-21-69, Cl. 149-20.
Herzog, Hershel L.; and Afonso, Adriano, to Schering Corporation. Process for the preparation of steroidal compounds. 3,451,892, 6-24-69, Cl. 195-51.
Herzog, Hershel L.; Gebert, William H.; Murrill, Nathaniel M.; and Groecela, Raymond, to Schering Corporation. Process for the preparation of 9α-halogeno- 11β-substituted steroids. 3,463,793, 8-26-69, Cl. 260-349.
Herzog, Hershel L.; and Shapiro, Elliot L., to Schering Corporation. 9α-Halogeno-11β-azido-steroids and methods for their manufacture. 3,455,968, 7-15-69, Cl. 260-349.
Herzog, Hershel L.; and Shapiro, Elliot L., to Schering Corporation. Novel 17,21-diesters of 16α-methyl-9α,11β- dichloro-1,4-pregnadienes. 3,475,466, 10-28-69, Cl. 260-397.45
Herzog, Hilmar, to Bauer, Gustav, KG Guba-Unrenrohwerke: Apparatus for continuous production of multi-layer watchbands. 3,447,993, 6-3-69, Cl. 156-461.
Herzog, Howard A.; and Packard, William, to Bendix Corporation, The. Three axis torque measuring fixture. 3,481,192, 12-2-69, Cl. 73-136.
Herzog, John H.: *See*—
Cady, Percy L., Jr.; and Herzog, John H.,3,456,542.
Herzog, John H., to Houdaille Industries, Inc. Notching unit. 3,446,105, 5-27-69, Cl. 83-146.
Herzog, John H.; and Hill, Ronald C., to Houdaille Industries, Inc. Tool support structure. 3,461,763, 8-19-69, Cl. 83-136.
Herzog, Paul, to Elektromedizin und Respirator AG. Device for calibrating flowmeters. 3,425,262, 2-4-69, Cl. 73-3.
Herzog, Paul: *See*—
Rosdahl, Karl-Gustaf Engelbrekt; Engstrom, Carl-Gunnar Daniel; and Herzog, Paul,3,481,689.

Herzog, Robert P.: *See*—
Adams, Ralph D.; Borchert, Ernst, III; and Herzog, Robert P.,3,421,542.
Sitter, Donald F.; and Herzog, Robert P.,3,446,952.
Herzog, Stanley, to Halcon International Inc. Recovery of tertiary-butyl hydroperoxide by fractionation in the presence of a refluxing agent. 3,427,229, 2-11-69, Cl. 203-63.
Herzog, Walter: *See*—
Meurer, Siegfried; Querfurt, Horst; and Herzog, Walter,3,420,216.
Heseltine, Donald W.: *See*—
Fumia, Arthur, Jr.; Heseltine, Donald W.; and Brooker, Leslie G. S.,3,482,978.
Heseltine, Donald W., to Eastman Kodak Company. Sensitized silver halide emulsions with holopolar dyes containing a dilactone ring. 3,440,052, 4-22-69, Cl. 96-105.
Heseltine, Donald W.; and Brooks, Dugald A., to Eastman Kodak Company. Mordants for bleachable filter layers. 3,438,779, 4-15-69, Cl. 96-84.
Heseltine, Donald W.; and Brooks, Dugald A., to Eastman Kodak Company. Mordants for use in dyed filter layers. 3,455,693, 7-15-69, Cl. 96-84.
Heseltine, Donald W.; Jones, Jan E.; and Lincoln, Lewis L., to Eastman Kodak Company. Butadienyl dyes for photography. 3,481,927, 12-2-69, Cl. 260-240.9
Heseltine, Donald W.; and Lincoln, Lewis L., to Eastman Kodak Company. Solubilized styryl dyes. 3,423,207, 1-21-69, Cl. 96-84.
Heske, William A., to Dresser Industries, Inc. Pneumatic transmitter apparatus. 3,424,008, 1-28-69, Cl. 73-411.
Heskes, Jacob. Perpetual calendar. 3,427,740, 2-18-69, Cl. 40-109.
Heskestad, Gunnar: *See*—
Gallie, Daniel G.; and Heskestad, Gunnar,3,437,371.
Heskestad, Gunnar, to American Standard Inc. Control apparatus and methods. 3,425,431, 2-4-69, Cl. 137-81.5
Heskestad, Gunnar, to American Standard Inc. Jet agitation of a solution. 3,438,072, 4-15-69, Cl. 8-158.
Heskett, Don Edward. Pressure responsive device for controlling liquid level in tanks. 3,470,905, 10-7-69, Cl. 137-571.
Heskett, Don E. Fluid conducting device and pressure sensitive control means. 3,424,883, 1-28-69, Cl. 200-81.9
Heskett, Don E. Pressure responsive device for controlling liquid level in tanks. 3,432,038, 3-11-69, Cl. 210-96.
Heslan, Emile, to Societe Nationale des Petroles d'Aquitaine. Process for the oxidation of olefines. 3,429,930, 2-25-69, Cl. 260-604.
Heslan, Emile, to Societe Nationale des Petroles d'Aquitaine. Oxidation of unsaturated hydrocarbons. 3,485,878, 12-23-69, Cl. 260-604.
Hesler, Joseph P.; and Peil, William, to General Electric Company. Apparatus for traversing digital information across band-pass transmission media. 3,462,745, 8-19-69, Cl. 340-173.
Hesling, Donald M.; and De Bruin, Calvin N., to Sealed Power Corporation. Piston ring assembly. 3,430,968, 3-4-69, Cl. 277-139.
Hess, Alan L.: *See*—
Hill, Vernon L.; Rausch, John J.; Hess, Alan L.; Van Thyne, Ray J.; and Nichols, Harry R.,3,446,615.
Hess, Albert R., to PPG Industries, Inc. Method of removing ion from salt bath by ion exchange regeneration. 3,441,398, 4-29-69, Cl. 65-30.
Hess, David C.: *See*—
von Ehrenstein, Dietes; and Hess, David C.,3,461,294.
Hess, Duane C.; and Allen, Donald J., to Merck & Co., Inc. Process for preparing a delayed release medicinal tablet. 3,487,138, 12-30-69, Cl. 264-112.
Hess, Earl H., to Backman Chocolate Manufacturing Company. Tobacco compositions. 3,429,316, 2-25-69, Cl. 131-17.
Hess, Earl H.; and Tshudy, Donald R., to Lancaster Laboratories, Inc. Feed and forage pellets and process for producing the same. 3,420,671, 1-7-69, Cl. 99-2.
Hess, Edwin Austin; and Schwebel, Clarence. Water treatment with ozone. 3,448,045, 6-3-69, Cl. 210-63.
Hess, Elmer J., to Zero-Max Industries, Inc. Adjustable shelf support device. 3,481,485, 12-2-69, Cl. 211-134.
Hess, Gildard H., to Stanray Corporation. Cart for gas cylinders. 3,471,046, 10-7-69, Cl. 214-501.
Hess, Gunther, to Siemens Aktiengesellschaft. Electric arc plasma burner. 3,456,146, 7-15-69, Cl. 313-231.
Hess, Hans-Jurgen E., to Pfizer, Chas., & Co., Inc. Carbazoyl peptides. 3,422,083, 1-14-69, Cl. 260-112.5
Hess, Howard V.: *See*—
Mc Coy, Frederic C.; and Hess, Howard V.,3,459,683.
McCoy, Frederic C.; and Hess, Howard V.,3,422,009.
McCoy, Frederic C.; Knowles, Edwin C.; and Hess, Howard V.,3,441,369.
Hess, Howard V.; and Guptill, Frank E., Jr., to Texaco Inc. Steam-hydrocarbon process over iron-chromium catalyst for synthesis gas production. 3,485,882, 12-23-69, Cl. 260-672.
Hess, Howard V.; and McCoy, Frederic C., to Texaco Inc. Process for removal of salts from aqueous solutions with solid methylenedianiline. 3,433,583, 3-18-69, Cl. 23-89.
Hess, James B.: *See*—
Roberts, Sidney G.; Fetzer, Maurice C.; and Hess, James B.,3,462,248.
Hess, Kenneth G., to Polar Ware Company. Sink-forming method. 3,421,466, 1-14-69, Cl. 113-120.
Hess, Kurt; Meckbach, Heinrich; Brandt, Karl; and Wolz, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Light-fast chlorinated terphenyl containing lacquers. 3,467,536, 9-16-69, Cl. 106-190.
Hess, Le Roy W. Bed attachment for severable, continuous disposable sheets. 3,466,679, 9-16-69, Cl. 5-317.
Hess, Loyal H.: *See*—
De Noyer, Donald B.; and Hess, Loyal H.,3,424,651.
Hess, Martin S.: *See*—
Agusta, Benjamin; and Hess, Martin S.,3,443,176.
Castrucci, Paul P.; Hess, Martin S.; and Pecoraro, Raymond P.,3,473,976.
Hess, Patrick H.; and Millhone, Ralph S., to Chevron Research Company. Sand consolidation process. 3,478,824, 11-18-69, Cl. 166-295.
Hess, Paul D., to Aluminum Company of America. Flux for treating aluminum. 3,436,212, 4-1-69, Cl. 75-68.
Hess, Vilem: *See*—
Skoda, Jan; Hess, Vilem; and Sorm, Frantisek,3,468,759.
Hess, Wendell T.: *See*—
Finlay, Walter L.; Hay, Donald A.; and Hess, Wendell T.,3,474,516.
Hess, William C.: *See*—
Austin, Harry W.; and Hess, William C.,3,458,864.
Hess, Willy, to Oerlikon-Buhrle Holding Ltd. Method and apparatus for processing a data card. 3,474,233, 10-21-69, Cl. 235-61.11
Hesse, Alfred; and Bindel, Wolfgang, to Olympia Werke AG. Printing platen for calculating and bookkeeping machines. 3,480,127, 11-25-69, Cl. 197-144.
Hesse, Alfred; Focken, Heinz; and Bindel, Wolfgang, to Olympia Werke A.G. Pin carriage for calculators. 3,469,776, 9-30-69, Cl. 235-60.
Hesse, Alfred; and Keiter, Alfred, to Olympia Werke AG. Ordinal printing mechanism with zero suppression means for calculators. 3,427,963, 2-18-69, Cl. 101-93.
Hesse, Christian: *See*—
Reimann, Hubertus; and Hesse, Christian,3,450,015.
Hesse, Earl J.: *See*—
Margaroli, John L.; and Hesse, Earl J.,3,469,612.
Hesse, Jack E., Jr.: *See*—
Zagone, Peter V.; Hesse, Jack E., Jr.; and Jones, Richard P.,3,439,170.
Hesse, Karl O. H., to International Business Machines Corporation. Data sensing apparatus including multiplex sensing. 3,424,913, 1-28-69, Cl. 250-219.
Hesse, Kenneth R., to Hughes Aircraft Company. Flat, direct view storage tube. 3,473,200, 10-21-69, Cl. 313-68.
Hesselgren, Sven-Gunnar: *See*—
Linder, Fritz; Frostell, Goran; and Hesselgren, Sven-Gunnar,3,457,031.
Hesselgren, Tore Gottfrid. Alternating current bridge circuit. 3,456,165, 7-15-69, Cl. 317-153.
Hesselmann, Charlotte,: *See*—
Hesselmann, Wilhelm,3,460,513.
Hesselmann, Hans-Jurgen: *See*—
Hesselmann, Wilhelm,3,460,513.
Hesselmann, Harald,: *See*—
Hesselmann, Wilhelm,3,460,513.
Hesselmann, Herbert,: *See*—
Hesselmann, Wilhelm,3,460,513.
Hesselmann, Karl-Heinz,: *See*—
Hesselmann, Wilhelm,3,460,513.
Hesselmann, Peter,: *See*—
Hesselmann, Wilhelm,3,460,513.
Hesselmann, Theodor: *See*—
Hesselmann, Wilhelm,3,460,513.
Hesselmann, Wilhelm, deceased0 (by Hesselmann, Charlotte,0Hesselmann, Herbert,0Hesselmann, Harald,0Hesselmann, Karl-Heinz,0Hesselmann, Peter,0Hesselmann, Theodor; and0Hesselmann, Hans-Jurgen; heirs). Dispenser for coating a moving sheet. 3,460,513, 8-12-69, Cl. 118-323.
Hessenbruch, Rolf, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Manufacture of endless threadlike products of thermoplastic materials. 3,444,683, 5-20-69, Cl. 57-157.
Hesser, Fr., Machinenfabrik, A.G.: *See*—
Grafingholt, Alfred, 3,442,061.
Hesser, Fr., Maschinenfabrik, A.G.: *See*—
Buchner, Norbert; and Kohnlein, Rolf, 3,430,805.
Kiefer, Heinz, 3,480,470.
Kuhnle, Paul, 3,439,866.
Kuhnle, Paul, 3,439,868.
Kuhnle, Paul; and Gaukler, Fritz, 3,470,995.
Stambera, Adolf, 3,452,857.
Hessner, Hans, to Aktiebolaget Stille-Werner. Machine for producing and packaging diapers. 3,474,592, 10-28-69, Cl. 53-112.
Hesston Corporation, Inc.: *See*—
Brooks, Dean P., 3,430,723.

Case, Cecil L., 3,431,993.
Case, Cecil L., 3,472,003.
Fleming, Jonathan B., 3,445,006.
Lundahl, Ezra C., 3,443,699.
Lundahl, Ezra Cordell, 3,454,171.

Hesston Manufacturing Company, Inc.: *See*—
Reece, Floyd N., 3,422,747.
Rollins, Eugene C., 3,438,496.

Hesston of Delaware, Inc.: *See*—
McCanse, James E., 3,483,683.

Hestad, Alfred M., to International Telephone and Telegraph Corporation. Tone supply gate circuit. 3,443,125, 5-6-69, Cl. 307-253.

Hestad, Alfred M.; and Neel, Donald L., to International Telephone and Telegraph Corporation. Transfer and signaling circuit. 3,482,052, 12-2-69, Cl. 179-18.

Hestad, Alfred M.: *See*—
Seemann, Donald Francis; Hestad, Alfred M.; and Jovic, Nikola Ljotic,3,449,526.

Hester, Benny Lee, to Reynolds, R. J., Tobacco Company. Pneumatic method and apparatus for testing cigarettes to detect loose ends and missing filter tips. 3,468,416, 9-23-69, Cl. 209-74.

Hester, Benny Lee: *See*—
McArthur, Colin Shaw; and Hester, Benny Lee,3,426,583.

Hester, James F.: *See*—
Beard, Ralph L.; and Hester, James F.,3,449,765.

Hester, Ray W., Jr.: *See*—
Branham, Donald R.; Selfe, Richard J.; and Hester, Ray W., Jr.,3,477,235.

Heston, Eugene E., to NRM Corporation. Rotary induction heated extrusion die. 3,422,493, 1-21-69, Cl. 18-14.

Heston, Eugene E., to NRM Corporation. Extruder. 3,475,787, 11-4-69, Cl. 18-12.

Heston, Eugene E., to NRM Corporation. Extruder. 3,475,788, 11-4-69, Cl. 18-12.

Heston, Eugene E.; Stroup, John F.; McCormick, William S.; and Wurgler, Heinrich J., to NRM Corporation. Two-stage extruder. 3,445,890, 5-27-69, Cl. 18-12.

Hesz, Theodor, to Schmid, Arthur. Drive assembly to drive an automatic pattern- stitch sewing machine. 3,473,496, 10-21-69, Cl. 112-118.

Heth, Edwin M., to Production Machines, Inc. Coupling for veneer lathe feed screw. 3,466,074, 9-9-69, Cl. 287-129.

Heth, Serman C., to Jacobsen Manufacturing Company. Ground effect lawn mower. 3,423,912, 1-28-69, Cl. 56-25.4

Heth, Sherman C.; Kaufman, Vernon R.; and Munson, Lyle G., to Jacobsen Manufacturing Company. Snow thrower of the powered auger type. 3,484,963, 12-23-69, Cl. 37-43.

Heth, Sherman C.; and Lewis, Evan T., to Jacobsen Manufacturing Company. Gang lawnmower. 3,429,109, 2-25-69, Cl. 56-7.

Hetherington, Gary L.: *See*—
Hasselmann, Detlev E.; Tellkamp, Robert G.; and Hetherington, Gary L.,3,437,568.

Hetherington, James S., to Varian Associates. Method for making porous low density metal member from powdered metal. 3,445,625, 5-20-69, Cl. 219-149.

Hetherington, James S.; and Skinner, James R., to Varian Associates. Segmented mesh type heating element formed with reinforcing mesh structure. 3,469,013, 9-23-69, Cl. 13-25.

Hetherington, Richard; and Foley, Joseph, said Hetherington assor. to Rohm & Haas Company said Foley assor. to Du Pont de Nemours, E. I., and Company. Process for obtaining complete softening of waters where hardness exceeds alkalinity. 3,423,311, 1-21-69, Cl. 210-38.

Hetman, Frank W. Self-propelled device for cleaning the window and wall surfaces of a building structure. 3,425,082, 2-4-69, Cl. 15-52.

Hetmann, Richard, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Vehicle driving unit. 3,478,834, 11-18-69, Cl. 180-70.

Hetrick, Glenn C. Hook sneller. 3,434,750, 3-25-69, Cl. 289-17.

Hetteen, Edgar E. Snowmobile transporting apparatus. 3,437,354, 4-8-69, Cl. 280-415.

Hettich, Alfred, to Bosch, Robert, G.m.b.H. Portable power tool of compact construction. 3,452,226, 6-24-69, Cl. 310-50.

Hettich, Alfred; Schadlich, Fritz; Walz, Heinz; and Paule, Kurt, to Bosch, Robert, GmbH. Shoe cleaning and polishing machine. 3,475,780, 11-4-69, Cl. 15-36.

Hettich, Antonius. Apparatus for holding a moveable member such as a drop-leaf door. 3,424,280, 1-28-69, Cl. 188-67.

Hettich, Bernhard: *See*—
Tauchert, Klaus; Munster, Horst; Hettich, Bernhard; Konig, Gerhard; Hofheinz, Karlheinz; and Kade, Peter,3,482,511.

Hettich, Otto: *See*—
Wolber, Robert; and Hettich, Otto,3,445,612.

Hettich, Ronald D.: *See*—
Andre, Stephen N.; Hettich, Ronald D.; and Megargel, Leland R.,3,434,142.

Hettick, George R.: *See*—
Little, Donald M.; and Hettick, George R.,3,448,040.
Little, Donald M.; and Hettick, George R.,3,475,329.
Little, Donald M.; and Hettick, George R.,3,477,945.

Hettlinger, Raymond C.; and Smith, Robert L., to Chemetron Corporation. Medical service unit. 3,431,937, 3-11-69, Cl. 137-355.16

Hetz, Heinz K.; Brand, Warren H.; and Dabinett, George B., to Yarway Corporation. Hydraulic actuator. 3,467,017, 9-16-69, Cl. 103-38.

Hetz, Heinz K.: *See*—
Kruzan, Harold F.; and Hetz, Heinz K.,3,424,194.

Hetzel, Carl P.: *See*—
Geminder, John J.; and Hetzel, Carl P.,3,464,829.

Hetzel, Max: *See*—
Frossard, Remy; Hetzel, Max; Robert, Henri; and Haring, Henri,3,446,006.

Hetzel, Max, to Centre Electronique Horloger S.A. Device for transforming the movement for an electronic watch. 3,451,280, 6-24-69, Cl. 74-142.

Hetzel, Max, to Centre Electronique Horloger S.A. Device for limiting the amplitude of oscillation of a mechanical resonator for electro-mechanical time piece. 3,470,401, 9-30-69, Cl. 310-25.

Hetzel, Max, to Centre Electronique Horloger S.A. Mechanical resonator. 3,486,049, 12-23-69, Cl. 310-25.

Hetzel, Max; Haring, Henri; and Robert, Henri, to Centre Electronique Horloger S.A. Devie for securing a battery in a watch. 3,428,937, 2-18-69, Cl. 339-95.

Hetzel, Max; Haring, Henri; and Robert, Henri, to Centre Electronique Horloger S.A. Electronic timepiece. 3,481,137, 12-2-69, Cl. 58-23.

Hetzel, Max; and Seigneur, Remy, to Centre Electronique Horloger S.A. Mechanical resonator. 3,466,475, 9-9-69, Cl. 310-25.

Hetzler, Fred: *See*—
Goodwyn, John W., 3,466,102.

Heuck, Claus; and Lederer, Michael, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of polymaleic anhydride. 3,457,240, 7-22-69, Cl. 260-78.4

Heuer, Kurt: *See*—
Reichert, Otto; Heuer, Kurt; Grotjahn, Heinz; and Wendlandt, Hans George,3,420,814.

Heugebaert, Frans Clement; and Willems, Jozef Frans, to Gevaert-Agfa N.V. Certain 1,3,4-thiadiazolidine-2-thiones and their derivatives thereof. 3,474,108, 10-21-69, Cl. 260-294.8

Heumann, Frederick G., to Owens-Corning Fiberglas Corporation. Creel adapter for filamentary material processing apparatus. 3,430,892, 3-4-69, Cl. 242-129.5

Heumann, Hans: *See*—
Schmitt, Karl; Ester, Wilhelm; Heumann, Hans; and Pauling, Harry,3,453,071.

Heunks, Antonius M. A.; Kars, Franciscus A.; and Hofenk, Gerrit, to Stamicarbon N.V. Device for preparing urea. 3,446,601, 5-27-69, Cl. 23-263.

Heuse, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Electrolytically dissolving one alloy component from a Raney-type alloy encased in a porous inert material. 3,429,751, 2-25-69, Cl. 136-120.

Heuser, Henry V., to Vogt, Henry, Machine Company, Incorporated. Receiving classifying and propelling device. 3,428,173, 2-18-69, Cl. 209-3.

Heuser, Leon John; Chiang, Ching; and Anderson, Carl Francis, to Squibb, E. R., and Sons, Inc. Method for the production of 6-amino-penicillanic acid. 3,446,705, 5-27-69, Cl. 195-36.

Heuser, Paul F.: *See*—
Chandler, Wesley M.; Heuser, Paul F.; and Juba, Bernard T.,3,439,461.

Heusinkveld, Walter: *See*—
Ostwald, Fritz; Schmid, Leopold Franz; and Heusinkveld, Walter,3,424,278.

Heusler, Karl: *See*—
Wettstein, Albert; Anner, Georg; Heusler, Karl; Kalvoda, Jaroslav; and Ueberwasser, Hellmut,3,458,539.

Heusner, Alex; and Zeile, Karl, to Boehringer Ingelheim G.m.b.H. Certain amino-substituted 2-methyl- 3-phenyl-4(3H)-quinazolinones. 3,448,109, 6-3-69, Cl. 260-256.4

Heusner, Alex; Zeile, Karl; and Danneberg, Peter, to Boehringer Ingelheim G.m.b.H.2-Isopropyl-3-(*p*-amino-phenyl)-3H-4-quinazolone. 3,462,434, 8-19-69, Cl. 260-256.4

Heuss, Helmut: *See*—
Strauss, Gottfried; Heuss, Helmut; and Simon, Gerhard,3,463,863.

Heuston, Philip T.: *See*—
Frig, Gerald E.; Heuston, Philip T.; and Thumudo, Mario F., Jr.,3,425,067.

Heutzenroeder, Dale E. Abrasion and corrosion resistant valve construction and method. 3,450,151, 6-17-69, Cl. 137-375.

Hever, Keith O.: *See*—
Adlhart, Otto J.; and Hever, Keith O.,3,424,619.
Cohn, Johann G. E.; Adlhart, Otto J.; and Hever, Keith O.,3,440,103.

Hever, Klaus, to VEB Carl Zeiss Jena. Bridge-balancing devices for spectrometers for paramagnetic electron resonance. 3,448,374, 6-3-69, Cl. 324-0.5

Hevonkoski, Frank A.: *See—*
Gajda, Leo P.; and Hevonkoski, Frank A.,3,427,907.
Hewes, Basil Victor. Combined crash locator and emergency exit lamp device for aircraft. 3,428,941, 2-18-69, Cl. 340-27.
Hewes, George B., Jr.; and Conner, James Leon, to Gichner Mobile Systems, Inc. Jack construction. 3,466,011, 9-9-69, Cl. 254-97.
Hewett, Oscar C., to Samsonite Corporation, mesne. Synthetic resin structural panel and method of making the same. 3,444,034, 5-13-69, Cl. 161-44.
Hewitt, Anthony David: *See—*
Weir, Robert James; and Hewitt, Anthony David,3,460,033.
Weir, Robert James; and Hewitt, Anthony David,3,465,326.
Hewitt, Earle Norman: *See—*
Carriel, Jonathan Turner; and Hewitt, Earle Norman,3,472,887.
Hewitt, Eugene E., to Uniroyal, Inc. Method of mounting fastening elements on thermoplastic materials by friction welding. 3,444,018, 5-13-69, Cl. 156-73.
Hewitt, Eugene E., to Uniroyal, Inc. Method of butt joining thermoplastic sheet material by a spin welding operation. 3,468,732, 9-23-69, Cl. 156-73.
Hewitt, Eugene E., to Uniroyal, Inc. Friction welding. 3,481,803, 12-2-69, Cl. 156-73.
Hewitt, Fred G., to Sperry Rand Corporation. Two-core-per-bit memory. 3,432,820, 3-11-69, Cl. 340-174.
Hewitt, Fred G., to Sperry Rand Corporation. Radiation hardened recording system. 3,432,826, 3-11-69, Cl. 340-174.
Hewitt, Fred G.; and James, Raymond H., to Sperry Rand Corporation. Radiation-hardened recording system. 3,432,829, 3-11-69, Cl. 340-174.
Hewitt, Fred G.: *See—*
Korkowski, Vincent J.; Hewitt, Fred G.; and James, Raymond H.,3,432,819.
Lundberg, Charles W.; Hewitt, Fred G.; James, Raymond H.; and Korkowski, Vincent J.,3,432,818.
Hewitt, Harlan D. Safety seat for automobile. 3,423,124, 1-21-69, Cl. 296-65.
Hewitt, James Maurice: *See—*
Sherrington, Leonard George; and Hewitt, James Maurice,3,453,069.
Hewitt, Keith A.; and Krantz, Emerson H., to Chrysler Corporation. Double-hinged tailgate. 3,454,299, 7-8-69, Cl. 296-50.
Hewitt, Kenneth D., to Continental Carbon Company. Pelletization of finely divided solids. 3,483,594, 12-16-69, Cl. 18-1.
Hewitt, Lew V., to Horton Automatics, Inc. Lock assembly for sliding panels. 3,455,058, 7-15-69, Cl. 49-280.
Hewitt, Lew V.; and Horton, Dee D., to Horton Automatics, Inc. Swinging slide panel construction. 3,464,159, 9-2-69, Cl. 49-177.
Hewitt, Woodrow W.: *See—*
Seress, George; and Hewitt, Woodrow W.,3,429,746.
Hewitt-Robins Incorporated: *See—*
Adler, Imre; Connelly, Francis X.; and Martini, Douglas H., 3,457,789.
Adler, Imre; and Streng, Fritz F., 3,476,233.
Bankauf, William F.; and Promin, Robert M., 3,422,949.
Harkess, Andrew J., 3,442,369.
Johnson, Charles E.; and Kolarik, Paul J., 3,465,374.
Martini, Douglas H.; Snow, Frederick O., III; and Vander Laan, Richard W., 3,455,467.
Olchawa, Joseph M., 3,469,806.
Skinner, Clayton H.; and Sick, Paul J., 3,420,276.
Skinner, Clayton H.; and Kolarik, Paul J., 3,428,092.
Skinner, Clayton H.; and Sick, Paul J., 3,462,177.
Snow, Frederick O., III, 3,470,999.
Hewko, Lubomyr O.: *See—*
Evangelista, Ernest L.; and Hewko, Lubomyr O.,3,482,891.
Hewko, Lubomyr O., to General Motors Corporation. Friction drive transmission. 3,475,993, 11-4-69, Cl. 74-798.
Hewlett, Clarence W., Jr., to General Electric Company. Converter for converting an angular shaft position to a digital pulse train. 3,478,347, 11-11-69, Cl. 340-347.
Hewlett, Clarence W., Jr.; and Roberts, John A., to General Electric Company. Temperature control circuit. 3,483,359, 12-9-69, Cl. 219-497.
Hewlett Packard Company: *See—*
Williams, James D., 3,425,025.
Hewlett, Timothy Y., Jr. Forging furnace. 3,429,562, 2-25-69, Cl. 263-40.
Hewlett-Packard Company: *See—*
Ansley, William G., 3,423,823.
Ansley, William G., 3,482,088.
Atalla, Martin M.; Archer, Robert J.; Hall, Robert D.; and Engelman, Reinhart W. H., 3,422,289.
Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F., 3,458,259.
Bahrs, George S.; and Mc Whorter, Malcolm M., 3,441,833.
Bauhaus, Richard H.; Harrington, Howard W.; and Poulter, Howard C., 3,440,529.
Becker, John C.; Benjaminson, Albert; Blanz, Jerry A.; Karrer, Henry E.; and Moffat, Robert J., 3,456,216.
Best, Allan I.; Farnbach, William A.; and Smith, Jeffrey H., 3,423,629.
Best, Allan Irving, 3,423,628.
Brendlen, Lawrence W., Jr., 3,453,586.
Carlstead, Robert H., 3,445,840.
Chiang, Franklin C., 3,463,906.
Chu, David C.; and Ting, Lee-Sen, 3,434,065.
Codichini, Joseph J., 3,426,268.
Codichini, Joseph J., 3,444,456.
Dooley, John W., 3,474,660.
Dudley, Robert L., 3,440,448.
Eaves, Maynard D.; and Gilbert, John M., 3,421,211.
Eisenberg, Mark F., 3,486,124.
Garber, Thomas; Miller, Arthur; and Kelch, David E., 3,421,106.
Garber, Thomas; and Kelleher, William L., 3,434,034.
Girdner, William I., 3,475,815.
Grove, Wayne M., 3,450,902.
Hammond, Donald L., 3,423,609.
Hanson, Fred L., 3,458,723.
Hanson, Fred L., 3,484,705.
Hanson, Raymond C., 3,427,542.
Harrington, Howard W., 3,448,380.
Hawley, Irving H., Jr., 3,482,181.
Holloway, Joseph H., 3,422,456.
Ingman, Eric M., 3,432,763.
Jeong, David H., 3,478,281.
Kern, Robert H.; and Holloway, Joseph H., 3,450,876.
Kopel, LeRoy A., 3,487,137.
Levy, Eugene J., 3,425,807.
Loebner, Egon E.; Diesel, Thomas J.; and Bube, Richard H., 3,466,509.
Metcalf, William S., 3,480,884.
Miller, Arthur; and Levin, Morton H., 3,423,689.
Mitchell, Charles S., 3,465,129.
Monnier, Richard E., 3,424,867.
Nordgren, Brett M., 3,437,828.
Oliver, Bernard M., 3,434,002.
Osgood, Richard B., 3,431,440.
Pering, Richard D., 3,436,658.
Poulter, Howard C., 3,482,161.
Quinn, Joseph F., 3,421,858.
Rando, Joseph F., 3,450,476.
Reis, Charles S., 3,434,878.
Reiser, Ralph R., 3,421,019.
Reiser, Ralph R., 3,485,950.
Riley, Russell B., 3,440,538.
Ritchie, Douglas Eugene, 3,432,802.
Sauber, James W., 3,435,353.
Schade, Cristy M., 3,486,028.
Schuller, Max J., 3,484,796.
Sorensen, Hans O., 3,435,232.
Soshea, Richard W.; and Zettler, Robert A., 3,463,971.
Stelting, Raymond B., 3,475,633.
Stoft, Paul E.; and Davis, Dale R., 3,474,456.
Trimble, Charles R., 3,446,949.
Trimble, Charles R., 3,484,591.
Tykulsky, Alexander; and Kingsford-Smith, Charles A., 3,444,480.
Vanier, Jacques P., 3,420,996.
Vanier, Jacques P., 3,435,369.
Verdone, Michael A., 3,464,611.
Veteran, David R., 3,449,709.
Whatley, Thomas A., 3,486,367.
Hewson, Clifford Bruce, to Bliss, E. W., Company of Canada Ltd. Combined street light and identification sign structure. 3,478,200, 11-11-69, Cl. 240-25.
Hewson, Donald E.: *See—*
Mitchell, Douglas W., 3,419,991.
Hewson, John E. Valve manifold. 3,450,157, 6-17-69, Cl. 137-595.
Hexagon Laboratories, Incorporated: *See—*
Bruins, Paul F.; Benghiat, Isaac; and Frost, Harold R., 3,472,678.
Hexatron, Inc.: *See—*
Burt, Leslie R., 3,486,308.
Hexcel Corporation: *See—*
Anderson, Donald C.; and Devine, Matthew H., 3,466,957.
Blank, George F., 3,449,819.
Healy, James W.; Hidden, William P.; and Anderson, Donald C., 3,461,757.
Kazimi, Mahmoud I., 3,427,625.
Rule, Edwin L., 3,470,053.
Hexcel Products Inc.: *See—*
Kazimi, Mahmoud I., 3,483,614.
Hexel, Gunter Karl Friedrich, to Schmalbach-Lubeca-Werke Aktiengesellschaft. Closing cover made of plastic. 3,421,654, 1-14-69, Cl. 220-60.
Hexel, Leopold J. Vehicle suspension. 3,486,763, 12-30-69, Cl. 280-124.

Hexter, Peter K. Towel bar construction. 3,464,568, 9-2-69, Cl. 211-105.6
Heyberger, Werner; and Braun, Eugene R., to Smit, J. K. & Sons, Diamond Tools Limited Eaton Yale & Towne Inc. Diamond drill bit Hoist overload preventing device. 3,433,331, 3-18-69, Cl. 188-134.
Heybourne, Robert H.: *See*—
Clements, Herbert A.; and Heybourne, Robert H.,3,458,021.
Heyden, Rudi, to Bohme Fettchemie G.m.b.H. Waterproofing of leather and synthetic leathers. 3,475,206, 10-28-69, Cl. 117-142.
Heyden, Rudi, to Bohme Chemie Gesellschaft mit beschrankter Haftung. Fat liquoring agent consisting of an epoxy compound and an acid containing ester. 3,485,573, 12-23-69, Cl. 8-94.23
Heyden, Rudi: *See*—
Markert, Hans; and Heyden, Rudi,3,442,696.
Markert, Hans; and Heyden, Rudi,3,479,288.
Heydkamp, Wolfgang; Bayer, Otto; and Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of high molecular weight amines containing urethane and urea groups. 3,471,449, 10-7-69, Cl. 260-77.5
Heydkamp, Wolfgang; Muller, Erwin; and Wilms, Hugo, to Farbenfabriken Bayer Aktiengesellschaft. Process for production of high molecular weight diamines. 3,474,126, 10-21-69, Cl. 260-471.
Heydkamp, Wolfgang; Wilms, Hugo, deceased (by Wilms, Minna Marie Elli Freida Erika, heir); Kallert, Wilhelm; and Dieterich, Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane plastics. 3,471,448, 10-7-69, Cl. 260-75.
Heydlauf, Kurt: *See*—
Ruprecht, Robert; Heydlauf, Kurt; and Braun, Herbert,3,434,363.
Heye, Hermann: *See*—
Becker, Kurt, 3,464,547.
Heyek, Gerhard. Cutter head for dry shaver having additional cutting means. 3,436,822, 4-8-69, Cl. 30-34.1
Heyek, Gerhard. Oscillating motor, preferably for dry shavers. 3,473,057, 10-14-69, Cl. 310-21.
Heyer, Alfred: *See*—
Keuth, Heinz; Heyer, Alfred; and Gegner, Emil,3,447,009.
Heyer, Paul O. Nestable stools. 3,430,588, 3-4-69, Cl. 108-91.
Heyer, Walter E.; and Mescher, Harold E., to Pacific Scientific Company. Heat treating furnace. 3,441,259, 4-29-69, Cl. 263-34.
Heyer, Willy, to Gewerkschaft Eisenhutte Westfalia. Mining support arrangement. 3,434,292, 3-25-69, Cl. 61-45.
Heyer, Willy; and Brinkmann, Friedrich, to Gewerkschaft Eisenhutte Westfalia. Fluid pressure supply system. 3,421,795, 1-14-69, Cl. 299-32.
Heyerdahl, Arthur Eugen. Ski binding. 3,466,056, 9-9-69, Cl. 280-11.35
Heyerly, Homer L. Fire door. 3,487,419, 12-30-69, Cl. 49-7.
Heying, Theodore L.: *See*—
Ager, John W., Jr.; Heying, Theodore L.; and Mangold, Donald J.,3,463,820.
Heying, Theodore L.; and Papetti, Stelvio, to Olin Mathieson Chemical Corporation. Process of preparing organosilyl-containing m-carboranes. 3,440,265, 4-22-69, Cl. 260-448.2
Heying, Theodore L.; and Papetti, Stelvio, to Olin Mathieson Chemical Corporation. Bis(diorgano-alkoxysilyl) neocarboranes. 3,450,739, 6-17-69, Cl. 260-448.8
Heyl, Edgar G., to Grace, W. R., & Co. Method for forming a closure for bottles and other containers. 3,460,951, 8-12-69, Cl. 99-214.
Heyl, Gerhard: *See*—
Weisbeck, Roland; Fitzky, Hans-Georg; Simm, Walter; and Heyl, Gerhard,3,467,497.
Heyl, Leo W.; and Maynard, Robert W., to Mosler Safe Company, The. Security file. 3,426,707, 2-11-69, Cl. 109-59.
Heyman, Albert A., to Maryland Cup Corporation. Crushability tester. 3,464,260, 9-2-69, Cl. 73-94.
Heyman, Karl; and Messerschmidt, Harold, to Mona Industries, Inc. Descumming solution for etching. 3,469,980, 9-30-69, Cl. 96-36.3
Heyman, Louis; Netkin, Bernard; and Butvinik, David, to Maidenform, Inc. Band connection for garments. 3,467,107, 9-16-69, Cl. 128-501.
Heyman Manufacturing Company: *See*—
Klumpp, Ferdinand, Jr.; and Pfeifer, Louis, 3,443,542.
Klumpp, Ferdinand, Jr.; and Jemison, William, 3,464,659.
Heyman Manufacturing Company, Inc.: *See*—
Klumpp, Ferdinand, Jr., 3,470,529.
Heyman, Philip M.: *See*—
Heilmeier, George H.; and Heyman, Philip M.,3,423,654.
Heymann, Hans, to Olympia Werke AG. Apparatus for the retardation of impulse sequences. 3,478,332, 11-11-69, Cl. 340-174.
Heymann, Hans; and Rottmann, Hans, to Messer Griesheim G.m.b.H. Device for the seam welding of band ends. 3,473,721, 10-21-69, Cl. 228-18.
Heymann, Kurt; Woldt, Gunter; and Grundel, Helga, to Schering A.G. Aqueous bath and method for deposition of copper by chemical reduction. 3,454,416, 7-8-69, Cl. 117-47.
Heymann, Seymour E.: *See*—
Stensaker, Lee A.; Heymann, Seymour E.; Young, Hobart P.; and Vilcins, Ilmar J.,3,442,732.
Heymann, Walter M. Automatic fruit sectioning apparatus. 3,431,955, 3-11-69, Cl. 146-3.
Heymer, Gero: *See*—
Kern, Winfried; and Heymer, Gero,3,432,260.
Heymer, Gero; Harnisch, Heinz; Hartlapp, Gerhard; and Traulsen, Karl, to Knapsack Aktiengesellschaft. Process for the manufacture of sodium tripolyphosphate with a high content of the low temperature modification. 3,438,725, 4-15-69, Cl. 23-106.
Heymes, Pierre Rene, to Compagnie de Saint-Gobain. Process and apparatus for supporting sheet material on a gas bed. 3,449,101, 6-10-69, Cl. 65-25.
Heyn, Fred M.; and Kletch, Stanley J., Jr., to Thermal Transfer Corporation. Heat exchangers. 3,483,920, 12-16-69, Cl. 165-165.
Heynacher, Erich; and Wiedmann, Erwin, to Zeiss, Carl. Device for measuring or testing the image forming quality of lens systems. 3,438,713, 4-15-69, Cl. 356-124.
Heynau, David Hans. Friction gear transmission. 3,440,893, 4-29-69, Cl. 74-192.
Heyne, Clarence A., to Owens-Illinois, Inc. System for inserting partitions in cartons. 3,483,802, 12-16-69, Cl. 93-38.
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner, to Licentia Patent-Verwaltungs-G.m.b.H., and 400 (four Hundred) KV-Farschungsgemeinschaft e.V. Current control circuit for automatically balancing arbitrarily variable present current values. 3,447,066, 5-27-69, Cl. 323-1.
Heynes, Michael S. R.; and Coppen, Peter J., to Raytheon Company. Method of making a field effect transistor by diffusion, coating with an oxide and placing a metal layer on the oxide. 3,447,238, 6-3-69, Cl. 29-590.
Heynick, Louis N.: *See*—
Shoulders, Kenneth R.; and Heynick, Louis N.,3,453,478.
Heyroth, Alexander, to VEB Carl Zeiss Jena. Device for the transmission of motion in a photogrammetric apparatus. 3,455,025, 7-15-69, Cl. 33-1.
Heyser, Richard C., to California Institute of Technology. Time delay spectrometer. 3,466,652, 9-9-69, Cl. 343-14.
Heywang, Walter, to Siemens Aktiengesellschaft. Field effect transistor with a ferroelectric control gate layer. 3,426,255, 2-4-69, Cl. 317-235.
Heywang, Walter, to Siemens Aktiengesellschaft. Mechanical to electrical semiconductor transducer. 3,460,004, 8-5-69, Cl. 317-235.
Heywood, Basil Jason: *See*—
Barber, Michael; Broad, David Rex; and Heywood, Basil Jason,3,468,899.
Barber, Michael Stuart; Broad, David Rex; and Heywood, Basil Jason,3,427,318.
Heywood, David Main, to Rolls-Royce Limited. Apparatus for coating a nonmetallic fibre with a metal. 3,486,480, 12-30-69, Cl. 118-401.
Heywood, Kenneth W.; and Trampier, Charles Raymond, Jr., to National Lead Company. Titanium dioxide granules and their use in a molten glass batch. 3,434,853, 3-25-69, Cl. 106-52.
HF Image Systems, Inc.: *See*—
Irasek, Eugene H., 3,438,000.
Irasek, Eugene H., 3,482,687.
Hi-Shear Corporation: *See*—
Batten, Ronald W., 3,456,326.
Batten, Ronald W., 3,477,318.
Berkl, Josef U., 3,433,931.
Berkl, Josef, 3,475,592.
Berkl, Josef U.; and Little, Gaybert B., 3,420,984.
Bochman, Harry L., Jr., 3,437,291.
Bochman, Harry L., Jr.; and Thompson, Hobert Kem, 3,437,370.
Bynum, Jerry M., 3,482,864.
Takahashi, Albert T., 3,449,996.
Wagner, Kenneth L., Jr., 3,457,812.
Wilkins, Oren C., 3,481,178.
Wing, George S., 3,434,379.
Wing, George S., 3,449,998.
Hi-Speed Checkweigher Co., Inc.: *See*—
Pettis, Charles R., Jr., 3,474,874.
Hi-Tek Corporation: *See*—
Chevrier, Francois X., 3,462,101.
HIAB-FOCO Aktiebolag: *See*—
Lindqvist, Jonas Herman, 3,421,791.
Strandberg, Bengt Sigurd Lennart; and Sundin, Anders Erik, 3,484,003.
Hiab-Toco Aktiebolag: *See*—
Kullerback, Ivar Anselm, 3,445,014.
Hiatt, Gordon D.; and Mench, John W., to Eastman Kodak Company. Pretreatment of cellulose with a sulfo-lower fatty acid under anhydrous conditions. 3,480,615, 11-25-69, Cl. 260-229.
Hiatt, Raymond L., to Union Tank Car Company, mesne. Safety vent structure. 3,472,420, 10-14-69, Cl. 220-89.

Hibbard, Billy B., to Dow Chemical Company, The. Viscous aqueous compositions comprising a polymer containing N-vinyl morpholinone and a polymer containing sulfo or carboxyl groups or their salts. 3,432,454, 3-11-69, Cl. 260-29.6
Hibbard, Schuyler M., to Lohmann Foods Corporation. Treatment apparatus. 3,457,851, 7-29-69, Cl. 99-249.
Hibbard, William D.; Clark, James E.; and Rapp, Bernard R., to Modern Equipment Company. Method and system for pouring liquid metal by measured volume. 3,465,916, 9-9-69, Cl. 222-70.
Hibbeler, Charles L.: *See—*
Hicks, Harold E.; and Hibbeler, Charles L.,3,474,651.
Hibben, George C.: *See—*
Bachelder, Albert J.; Hibben, George C.; and Rebelsky, William,3,455,692.
Hibbitt, John Edward: *See—*
Evans, Raymond Victor; and Hibbitt, John Edward,3,468,140.
Hibbs, Richard G.,: *See—*
Leach, Byron E., 3,421,981.
Hibernia Chemie G.m.b.H.: *See—*
Schmitt, Karl; Ester, Wilhelm; Heumann, Hans; and Pauling, Harry, 3,453,071.
Hibi, Tatsusaburo. Apparatus for stably lowering aircraft. 3,463,425, 8-26-69, Cl. 244-139.
Hibino, Choji: *See—*
Ohi, Reiichi; Ikeda, Teppei; and Hibino, Choji,3,433,638.
Hibpshonan, Ronald D.: *See—*
Grieve, Earl D., 3,459,138.
Hibshman, Henry J., to Esso Research and Engineering Company. Combustion process of preparing a colored structural article. 3,482,008, 12-2-69, Cl. 264-80.
Hice, Jackson O., to Union Carbide Corporation. Food product cryogenic freezing system. 3,434,301, 3-25-69, Cl. 62-374.
Hick, Robert M., Jr.: *See—*
Sunshine, Norman B.; Hick, Robert M., Jr.; and Gould, Joseph O.,3,445,423.
Hickernell, James L., to Murphy, G. W., Industries, Inc. Friction bearing. 3,480,341, 11-25-69, Cl. 308-8.2
Hickerson, John D.: *See—*
Fishaber, Marvin H.; and Hickerson, John D.,3,473,984.
Hickey, James J.: *See—*
Overbeck, Charles J.; and Hickey, James J.,3,479,152.
Robertson, Thomas M.; Overbeck, Charles J.; and Hickey, James J.,3,440,014.
Hickey, John J., to TRW, Inc. High speed modulator for electronic shutter. 3,423,595, 1-21-69, Cl. 250-213.
Hickey, Richard A., to Scovill Manufacturing Company. Aerosol dispensing head. 3,471,092, 10-7-69, Cl. 239-579.
Hickey, Weldon W. Retrievable vented packer for oil wells. 3,479,064, 11-18-69, Cl. 285-111.
Hickey, William P.; and Martin, Philip T., to Industrial Nucleonics Corporation. Structure inspection equipment. 3,435,241, 3-25-69, Cl. 250-219.
Hickin, George K,: *See—*
Olivier, James Peter; and Hickin, George K,,3,449,567.
Hickin, Robert J., to Packaging Corporation of America. Package and method of forming same. 3,429,434, 2-25-69, Cl. 206-65.
Hickin, Robert J., to Packaging Corporation of America. Wrap-around type carrier and blank therefor. 3,429,496, 2-25-69, Cl. 229-40.
Hickin, Robert J., to Packaging Corporation of America. Separator member for a basket type carrier. 3,463,354, 8-26-69, Cl. 220-115.
Hickman, Albert F., to Grimar, Inc. Vehicle spring suspension. 3,437,347, 4-8-69, Cl. 280-124.
Hickman, Albert F., to Hickman Developments, Inc. Heavy duty vehicle spring suspension. 3,482,852, 12-9-69, Cl. 280-124.
Hickman Developments, Inc.: *See—*
Hickman, Albert F., 3,482,852.
Hickman, John Bibb: *See—*
English, Jackson Pollard; Hickman, John Bibb; and Gilbert, Richard Lapham, Jr.,3,467,496.
Hickmann, Herbert: *See—*
Pantke, Heinz-Dieter; and Hickmann, Herbert,3,430,689.
Pantke, Heinz-Dieter; and Hickmann, Herbert,3,450,396.
Hickmott, Thomas W., to General Electric Company. Metal-insulator-metal tunneling device with expo- nential I-V characteristic only in the negative resistance range. 3,447,045, 5-27-69, Cl. 317-234.
Hickner, Richard A., to Dow Chemical Company, The. Thermoset resins from an epoxy alcohol, a polyepoxide and cyclic anhydrides. 3,444,111, 5-13-69, Cl. 260-18.
Hickner, Richard A., to Dow Chemical Company, The. Hydroxy-and aminoalkyl aminothioalkyl ethers. 3,471,564, 10-7-69, Cl. 260-584.
Hickok Electrical Instrument Company, The: *See—*
Bauman, Robert L.; and Holt, Frederick Rodney, 3,480,858.
Holt, Frederick R., 3,473,122.
Hickok, Richard C.: *See—*
Tyler, John M.; Havens, Frederick D.; Hickok, Richard C.; and Feder, Ernest,3,420,053.
Hickok, William K.: *See—*
Eckenbrecht, Robert R.; and Hickok, William K.,3,456,070.
Hickok, William Kelsey, to Sylvania Electric Products, Inc. Hue control circuitry for color television receivers. 3,483,316, 12-9-69, Cl. 178-5.4
Hickory Springs Manufacturing Co., Inc.: *See—*
Underdown, Parks C., Sr., 3,426,370.
Hickory Springs Manufacturing Company, Inc.: *See—*
Haney, Benjamine H.; and Dockery, Benjamin F., 3,479,672.
Hickox, Lester E.: *See—*
Gondeck, Frederick V.; Hickox, Lester E.; Kennedy, Thomas E.; Perez, Arthur; and Thompson, James F.,3,432,378.
Hickox, Walter A., to Aeroflex Laboratories Incorporated. Indicator for simultaneously indicating two independently variable quantities. 3,446,070, 5-27-69, Cl. 73-189.
Hicks, Alan A.: *See—*
Swimmer, Ernest J.; and Hicks, Alan A.,3,431,957.
Hicks and Otis Prints, Incorporated: *See—*
Miller, Philip, 3,454,413.
Hicks, Darrell D., to Celanese Coatings Company. Polymeric polyhydroxy-polyether resins. 3,424,817, 1-28-69, Cl. 260-834.
Hicks, Darrell D., to Celanese Coatings Company. Thermoset carboxy copolymer-amino aldehyde- epoxide resin compositions. 3,467,730, 9-16-69, Cl. 260-834.
Hicks, Donald Keith: *See—*
Warman, Bloomfield James; Hicks, Donald Keith; and Barned, Alan James,3,449,521.
Hicks, Duane L., to Pacific Scientific Company. Cable tension regulator. 3,473,407, 10-21-69, Cl. 74-501.5
Hicks, Gordon C., to Tennessee Valley Authority. Process for production of granular ammonium sulfate. 3,464,809, 9-2-69, Cl. 71-61.
Hicks, Harold E.; and Hibbeler, Charles L., to Nooter Corporation. Vessel lining apparatus. 3,474,651, 10-28-69, Cl. 72-118.
Hicks, Harold E.; and Pohl, Bernard F., to Nooter Corporation. Hydraulically operated bottom closure for a straining tank. 3,429,782, 2-25-69, Cl. 195-135.
Hicks, Harris Vernon: *See—*
Bryant, Walter Kenneth; and Hicks, Harris Vernon,3,486,019.
Jones, Kenneth James; and Hicks, Harris Vernon,3,486,066.
Hicks, Hoke S.: *See—*
Crenshaw, Walter J.; Hicks, Hoke S.; and Oakes, Efton O.,3,463,199.
Hicks, John J., Jr.: *See—*
Campbell, Charles R.; Hicks, John J., Jr.; and Mathews, Marion J., III,3,429,783.
Hicks, Morris R.; and Le Veque, Joseph C., to Bardons & Oliver, Inc. Selective fluidic control and actuating means for machine tools. 3,447,220, 6-3-69, Cl. 29-42.
Hicks, Robert M.: *See—*
Hicks, Robert M.; and Anderson, Henry A., 3,460,675.
Hicks, Robert M.; and Anderson, Henry A., to Hicks, Robert M. Septic tank inspection apparatus and process. 3,460,675, 8-12-69, Cl. 210-83.
Hicks, William T.: *See—*
Cox, Norman L.; and Hicks, William T.,3,451,771.
Hicks, William T., to Du Pont de Nemours, E. I., and Company. Thermoelectric alloy of gold and nickel. 3,438,819, 4-15-69, Cl. 136-241.
Hicks, William T., to Du Pont de Nemours, E. I., and Company. Formation of ferromagnetic CrO_2 by decomposition of higher valent chromium oxides. 3,486,851, 12-30-69, Cl. 23-145.
Hickson & Welch Limited: *See—*
Sarkar, Asim Kumar, 3,428,630.
Sarkar, Asim Kumar, 3,470,167.
Hickton, Raymond: *See—*
Long, Nigel Neville William; and Hickton, Raymond,3,424,264.
Hida, Naoto; Kaiden, Muneyuki; Muraoka, Noboru; and Otsubo, Hideo, to Takenaka Komuten Company, Limited. Adiabatic simplified construction. 3,456,405, 7-22-69, Cl. 52-86.
Hidaka, Kizo: *See—*
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa,3,440,105.
Hidassy, Laszlo, to Thomas & Betts Co., The. Article lashing support. 3,486,725, 12-30-69, Cl. 248-68.
Hidden, William P.: *See—*
Healy, James W.; Hidden, William P.; and Anderson, Donald C.,3,461,757.
Hidden, William P., to Diamond Crystal Salt Company, mesne. Fluted package sealing apparatus. 3,432,990, 3-18-69, Cl. 53-373.
Hidden, William P.; and Cairns, Walter J., to Little, Arthur D., Inc. Disposable liquid applicator. 3,485,562, 12-23-69, Cl. 401-134.
Hideg, Laszlo, to Ford Motor Company. Engine fuel feed system. 3,439,656, 4-22-69, Cl. 123-32.
Hider, Philip Frank: *See—*
Muir, Douglas William Ballantyne; and Hider, Philip Frank,3,453,440.

Hider, Shibley A., to Owens-Illinois, Inc. Process of adhering a thermoplastic resin to a substrate and product produced thereby. 3,473,953, 10i21-69, Cl. 117-76.
Hider, Shibley A.; and Kitaj, Walter, to Owens-Illinois, Inc. Method for controlling the penetration of a siloxane resin into fibrous substrate. 3,481,763, 12-2-69, Cl. 117-60.
Hideyoshi Hisatsune: *See*—
Sato, Junichiro, 3,422,645.
Hidy, Phil H.: *See*—
Bachman, Marvin C.; and Hidy, Phil H.,3,453,367.
Hieber, Ellsworth E., to Schulz Tool and Manufacturing Co. Aerial refueling probe nozzle. 3,475,001, 10-28-69, Cl. 251-149.8
Hiegel, Larry D.: *See*—
Butterworth, Lyle J.; Hiegel, Larry D.; and Scheffer, Donald G.,3,447,176.
Hieger, Robert Henry. Vented acceleration discharge check valve. 3,460,813, 8-12-69, Cl. 261-34.
Hiemenz, George G.: *See*—
Bende, Albert; Hiemenz, George G.; and Moore, Charles Dana,3,465,117.
Hien, Manfred: *See*—
Schmitt, Paul; and Hien, Manfred,3,472,054.
Hiereth, Hermann, to Daimler-Benz Aktiengesellschaft. Piston-type internal combustion engine with fuel injection. 3,469,564, 9-30-69, Cl. 123-30.
Hierholzer, Frank J., Jr.; Metcalf, Gordon L.; and Karcher, Edmund A., to Westinghouse Electric Corporation. Inverter. 3,448,299, 6-3-69, Cl. 307-305.
Hieronymus, Hans, to Siemens Aktiengesellschaft. Temperature-compensated magnetically variable potentiometer. 3,462,673, 8-19-69, Cl. 323-69.
Hiers, James E., to Union Tank Car Company. Solid regenerating mineral dissolver. 3,425,808, 2-4-69, Cl. 23-267.
Hiers, James E.; and Grout, Edward C., to Union Tank Company, mesne. Water conditioning system. 3,426,603, 2-11-69, Cl. 74-3.5
Hiers, James E.; and Grout, Edward C., to Union Tank Car Company. Water softening valve. 3,433,259, 3-18-69, Cl. 137-599.1
Hiers, James E.: *See*—
Kryzer, Benjamin H.; and Hiers, James E.,3,442,624.
Hieslmair, Hans, to United States of America, Army. Field-enhanced thermionic emitter. 3,458,748, 7-29-69, Cl. 313-346.
Higa, Walter H.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,331.
Higashi, Hiromi: *See*—
Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao,3,477,999.
Higashi, Louis M., to Memorex Corporation. Magnetic coating composition with four component epoxy binder. 3,474,073, 10-21-69, Cl. 252-62.54
Higashi, Paul: *See*—
Gunderson, Robert O.; Valentine, Sidney L.; Jurick, Martin H.; and Higashi, Paul,3,426,328.
Higashimura, Toshinobu: *See*—
Flodin, Per Gustaf Magnus; Kornfeldt, Per; Okamura, Seizo; and Higashimura, Toshinobu,3,442,862.
Higbee, Allen F.: *See*—
Cawthon, Thomas M.; Schmitt, George J.; Higbee, Allen F.; Pedersen, Jack R.; and Oswald, Hendrikus J.,3,442,975.
Higbee, John E.; and Henderson, Martin C., to Bunker-Ramo Corporation, The. Cathode ray tube system including means for varying beam intensity. 3,465,200, 9-2-69, Cl. 315-30.
Higbee, John E.: *See*—
Henderson, Martin C.; and Higbee, John E.,3,437,872.
Higby, Richard F.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,444,380.
Higeta, Tsukumo: *See*—
Kawashima, Masao; and Higeta, Tsukumo,3,437,760.
Kawashima, Masao; Higeta, Tsukumo; and Kakehi, Gen,3,467,913.
Higginbotham, James M., to Owens-Corning Fiberglas Corporation. Method and apparatus for production of glass filaments. 3,475,148, 10-28-69, Cl. 65-2.
Higginbotham, John W., to Martin-Marietta Corporation. Complementary transistor low-level temperature- stabilized regenerative switch circuit utilizing stabistor inverse bias. 3,440,446, 4-22-69, Cl. 307-255.
Higginbottom, Harold P., to Monsanto Company. Halogenated phenol-formaldehyde resin. 3,448,078, 6-3-69, Cl. 260-53.
Higginbottom, Harold P.; and Le Blanc, John R., to Monsanto Company. Cyano modified phenolic resins. 3,444,137, 5-13-69, Cl. 260-51.5
Higginbottom, Harold P.; and LeBlanc, John R., to Monsanto Company. High efficiency stable liquid phenol- formaldehyde resin. 3,428,593, 2-18-69, Cl. 260-29.3
Higgins, Archie H.: *See*—
Tyler, Merle D.; Bonnema, Robert W.; and Higgins; Archie H.,3,437,201.
Higgins, Charles W.: *See*—
Bouvier, Francis L.; Carlson, Roy C., Jr.; Higgins, Charles W.; Smith Norman F.; and Kelley, John J.,3,438,155.
Higgins, Edgar L.: *See*—
Sparks, Richard A.; and Higgins, Edgar L.,3,445,774.
Higgins, Edward F., Jr., to Bell Telephone Laboratories, Incorporated. High power microwave coaxial cable connector. 3,458,852, 7-29-69, Cl. 339-177.
Higgins, Francis J., to Continental Oil Company. Purification of alcohols. 3,449,446, 6-10-69, Cl. 260-643.
Higgins, George C.: *See*—
Urbach, Franz; and Higgins, George C.,3,469,925.
Higgins, Irwin R.: *See*—
Ferner, Jack D.; and Higgins, Irwin R.,3,470,022.
Higgins, Irwin R., to Chemical Separations Corporation. Hydrolyzer process for steel pickling liquors. 3,468,707, 9-23-69, Cl. 134-3.
Higgins, James H., to United States of America, Army. Use of freeze-drying technique to make ultra- fine oxidizer for use in solid propellants. 3,452,445, 7-1-69, Cl. 34-5.
Higgins, John E., to Olin Mathieson Chemical Corporation. Composition of stop-weld material for roll-bond. 3,463,676, 8-26-69, Cl. 148-22.
Higgins, John H. Classifying apparatus. 3,439,872, 4-22-69, Cl. 235-61.
Higgins, John J.; and Stucker, Nova E., to Esso Research and Engineering Company. Polymer blend. 3,444,117, 5-13-69, Cl. 260-28.5
Higgins, Joseph J. Retractable extension for fixed ladders. 3,455,414, 7-15-69, Cl. 182-106.
Higgins, Paul T.: *See*—
Goodrich, George W.; and Higgins, Paul T.,3,486,868.
Higgins, Paul T., to Bendix Corporation, The. Integrated circuits and methods of manufacture. 3,433,260, 3-18-69, Cl. 137-608.
Higgins, Sigfried, to Williamson & Company. Method for producing an improved matrix molding board. 3,428,727, 2-18-69, Cl. 264-293.
Higgins, Thomas W.: *See*—
Crawford, Jack E.; Foster, Harold M.; and Higgins, Thomas W.,3,465,004.
Higgins, William A.: *See*—
Le Suer, William M.; and Higgins, William A.,3,442,804.
Higgins, William Frederick, to Magnesium Elektron Limited. Sacrificial anodes and method of using same. 3,470,077, 9-30-69, Cl. 204-148.
Higginson, Thomas Tweed. Target mould. 3,421,729, 1-14-69, Cl. 249-52.
Higgs, Fred, Jr.: *See*—
Marek, William F.; and Higgs, Fred, Jr.,3,421,465.
High, Carl F. Charge forming system for port injection internal combustion engine. 3,424,141, 1-28-69, Cl. 123-119.
High, Carl F. Antiair pollution internal combustion engine. 3,455,284, 7-15-69, Cl. 123-119.
High Polymer Chemical Industries, Ltd.: *See*—
Goto, Kanehiko, 3,462,332.
High Voltage Engineering Corporation: *See*—
Bliamptis, Emmanuel E.; and Quinn, Hubert R., 3,478,241.
Christofferson, James, 3,424,929.
Emanuelson, Roy M.; and Cram, Robert D., 3,433,947.
Herrera, John C., 3,482,136.
Purser, Kenneth H., 3,423,684.
Ray, Kenneth, 3,455,583.
Swanson, George W., 3,486,060.
Highberg, Carle W.: *See*—
Teeter, Ford C.; Sheldahl, David B.; and Highberg, Carle W.,3,453,784.
Highberg, Carle W., to Engelhard Hanovia, Inc. Surfacing wheel. 3,471,975, 10-14-69, Cl. 51-204.
Highberg, Carle W.; and Speirs, James B., to Engelhard Hanovia, Inc. Combination slotting and milling tool. 3,451,721, 6-24-69, Cl. 299-89.
Highberg, George A., to S-P Manufacturing Corporation, The, mesne. Variable force chuck construction. 3,460,849, 8-12-69, Cl. 279-121.
Highberger, John H.; and Whitmore, Robert A., to United Shoe Machinery Corporation. Methods of extruding collagen. 3,433,864, 3-18-69, Cl. 264-202.
Highfill, John F.: *See*—
Lightner, Gene E.; and Highfill, John F.,3,474,443.
Smith, George E.; Lightner, Gene E.; and Highfill, John F.,3,456,251.
Highland, Andrew, Jr.: *See*—
Joseph, Raymond S.; Kemeny, Julius; and Highland, Andrew, Jr.,3,457,892.
Szeremy, Norman; Highland, Andrew, Jr.; and Elwell, Charles E.,3,448,429.
Highley, Derek Rowland; and Ellenbogen, Leon, to American Cyanamid Company. Highly purified intrinsic factor. 3,434,927, 3-25-69, Cl. 195-2.
Highley, Thomas T., Jr., to Leeds & Northrup Company. Non-clogging penpoint for recording systems. 3,438,059, 4-8-69, Cl. 346-140.

Hightower, Frank J.: *See—*
Klima, Edward F.; Seidel, Wilber R.; DeGrove, William; and Hightower, Frank J.,3,483,649.
Highway Equipment Company: *See—*
Rawson, James L., 3,441,039.
Highway Products, Inc.: *See—*
Hines, Eugene W., 3,439,936.
Higley, Joseph B.; Robertson, Donald; and Schroyer, Franklin K., to Leeds & Northrup Company. Radiation pyrometer system substantially independent of ambient temperature changes. 3,448,283, 6-3-69, Cl. 250-226.
Higonnet, Rene A.; and Moyroud, Louis M. Type composing apparatus. 3,433,404, 3-18-69, Cl. 234-5.
Higonnet, Rene A.: *See—*
Moyroud, Louis M.; and Higonnet, Rene A.,3,422,736.
Higuchi, Hisayuki: *See—*
Kimura, Hirokazu; Tamura, Hifumi; Maki, Michiyoshi; and Higuchi, Hisayuki,3,474,245.
Higuchi, Noboru: *See—*
Yamamoto Noboru; and Higuchi, Noboru,3,459,567.
Higuchi, Nori, to Davis Aircraft Products, Inc. Fitting for cargo tiedown gear. 3,422,508, 1-21-69, Cl. 24-265.
Higuchi, Nori, to Davis Aircraft Products, Inc. Web tensioning buckle with safety lock. 3,423,799, 1-28-69, Cl. 24-68.
Higuchi, Takashi, to Nippon Kogaku K.K. Four component zoom lens. 3,481,666, 12-2-69, Cl. 350-184.
Higuchi, Teiji. Device for regulating the angle of inclination of the swinging parts of various furniture and appliances. 3,484,831, 12-16-69, Cl. 287-14.
Hikino, Tadashi: *See—*
Mikoda, Masanari; Hikino, Tadashi; and Kuroda, Takayuki,3,421,916.
Hilaire, Paul, to Societe Rhodiaceta. Production of linear polyesters using triethanolamine as catalyst. 3,475,379, 10-28-69, Cl. 260-75.
Hilber, Gunter Siegfried, to Alfa-Laval AB. Method and apparatus for cooling with ice water. 3,456,452, 7-22-69, Cl. 62-59.
Hilbert, Francis H., to Motorola, Inc. Wave signal phase and amplitude detector. 3,482,173, 12-2-69, Cl. 329-50.
Hilbert, Richard G.: *See—*
Aldrich, Donald D.; and Hilbert, Richard G.,3,484,032.
Hilbiber, David F., to Fairchild Camera and Instrument Corporation. Lateral transistor with improved injection efficiency. 3,427,513, 2-11-69, Cl. 317-235.
Hilbig, Erich; Ehrentraut, Heinz; Reimann, Hubertus; and Schutze, Siegfried, to VEB Pentacon Dresden Kamera -und Kinowerke. Photographic camera shutter control. 3,472,141, 10-14-69, Cl. 95-53.
Hilborn, Hans G.: *See—*
Malm, Lars G.; and Hilborn, Hans G.,3,442,386.
Hilborn, Stuart G., to Fuel Injection Engineering Company. Fuel injection system. 3,473,523, 10-21-69, Cl. 123-139.
Hilbourne, Robert Arthur, to North American Philips Company, Inc. Insulated gate field effect transistor with channel portions of different conductivity. 3,430,112, 2-25-69, Cl. 317-235.
Hilburn, Clarence W. Furniture jig. 3,465,620, 9-9-69, Cl. 77-62.
Hilburn, Glenn E., Jr. Athletic shoe with base inserts. 3,442,033, 5-6-69, Cl. 36-2.5
Hildebrand, Cleveland L., to Du Pont de Nemours, E. I., and Company. Method of producing alternate twist yarn. 3,468,120, 9-23-69, Cl. 57-157.
Hildebrand, George L.; and Wendt, Harry C., to General Electric Company. Pneumatically actuated adjustable stop for gyroscope. 3,470,752, 10-7-69, Cl. 74-5.2
Hildebrand, Karl-Heinz. Process and apparatus for disinfection of sewage. 3,480,543, 11-25-69, Cl. 210-60.
Hildebrand, Otto G. Die set manipulator. 3,460,226, 8-12-69, Cl. 29-200.
Hildebrand, Robert. Roller dryer. 3,448,524, 6-10-69, Cl. 34-149.
Hildebrand, Robert. Continuous dryer especially for lumber. 3,470,623, 10-7-69, Cl. 34-13.4
Hildebrand, Robert. Drying chamber for drying lumber. 3,477,139, 11-11-69, Cl. 34-191.
Hildebrandt, Albert R., to Smith, Paul, Inc. Transformer. 3,437,968, 4-8-69, Cl. 336-119.
Hildebrandt, Albert R., to Smith, Paul, Company, Division of Standard International Corporation. Coil bobbin. 3,458,844, 7-29-69, Cl. 336-192.
Hildebrandt, Alexander B.: *See—*
Eckel, John R.; and Hildebrandt, Alexander B.,3,445,085.
Hildebrandt, Gerd: *See—*
Klipping, Gustav; Elsner, Albrecht; and Hildebrandt, Gerd,3,442,091.
Hildebrandt, Herbert John; and Sylvan, Tage Peter, to General Electric Company. Electrical pulse generator and regulator for fluid flow and like control systems. 3,450,153, 6-17-69, Cl. 137-486.
Hildebrandt, Richard D., to Kaiser Aluminum & Chemical Corporation. Preparation of carbon aggregate. 3,421,991, 1-14-69, Cl. 204-294.
Hildebrandt, Richard D., to Kaiser Aluminum & Chemical Corporation. Method of forming carbon-bonded silicon carbide bodies. 3,442,989, 5-6-69, Cl. 264-29.
Hildebrandt, Richard D.; and Clukey, Wayne H., to Kaiser Aluminum & Chemical Corporation. Method for connecting anodes. 3,468,737, 9-23-69, Cl. 156-293.
Hildebrandt, Willi; and Van Huet, Aloysius T. Tractor and trailer construction. 3,430,985, 3-4-69, Cl. 280-426.
Hildon, Anthony M.: *See—*
Harris, John F. G.; and Hildon, Anthony M.,3,463,618.
Hildt, John M., to Astro Dynamics, Inc. Transportable wind tunnel. 3,435,671, 4-1-69, Cl. 73-147.
Hildyard, Joseph M. Chlorine stripping section for direct contact chlorine coolers. 3,422,599, 1-21-69, Cl. 55-42.
Hileman, Ronald E.; and Oxley, Vincent C., to Sylvania Electric Products, Inc. Television camera synchronization control system. 3,435,141, 3-25-69, Cl. 178-69.5
Hilfiker, Harlan D. Safety construction for vehicles. 3,479,080, 11-18-69, Cl. 296-35.
Hilfiker, Harlan D. Safety construction for vehicles. 3,480,291, 11-25-69, Cl. 280-87.
Hilfiker, Paul: *See—*
Meyer, Hans; and Hilfiker, Paul,3,486,235.
Hilfinger, George C., to Wesley Industries, Inc. Three dimensional structure having adjacent walls joined together. 3,437,392, 4-8-69, Cl. 312-258.
Hilfman, Lee, to Universal Oil Products Company. Manufacture of spheroidal silica-alumina particles. 3,442,821, 5-6-69, Cl. 252-429.
Hilfman, Lee: *See—*
Pollitzer, Ernest L.; and Hilfman, Lee,3,472,793.
Hilgartner, George H., Jr.: *See—*
Sexstone, John H.; and Hilgartner, George H., Jr.,3,473,539.
Hilge, Helmut, to Klockner-Humboldt-Deutz Aktiengesellschaft. Device for cleaning the electrodes in an electrostatic dust separator. 3,427,787, 2-18-69, Cl. 55-112.
Hilgendorf, Joachim; and Hasko, Froese, to Kienzle Apparate GmbH. System for effecting the read-out from a digital storage. 3,477,064, 11-4-69, Cl. 340-172.5
Hilgendorf, Joachim: *See—*
Schiller, Gerald; and Hilgendorf, Joachim,3,448,417.
Hilger & Watts Limited: *See—*
Godfrey, Charles John, 3,453,052.
Nixon, William Charles, 3,448,327.
Starnes, Peter Edward, 3,445,651.
Starnes, Peter Edward, 3,469,095.
Hill & Dolman (Engineers) Limited: *See—*
Dolman, Austin, 3,481,102.
Hill, Albert E.: *See—*
Harvey, Charles A.; Harvey, Henry E.; and Hill, Albert E.,3,481,483.
Hill, Arthur: *See—*
Lambert, Arthur; Makinson, George Kenneth; and Hill, Arthur,3,466,318.
Hill, Arthur, to Gregory Industries, Inc. Battery charging circuit. 3,448,239, 6-3-69, Cl. 219-108.
Hill, Bernard Elot. Daveno bed. 3,482,270, 12-9-69, Cl. 5-13.
Hill, Carl Eugene: *See—*
Eisberg, William Laurel, Jr.; and Hill, Carl Eugene,3,467,592.
Hill, Charles O., to United States of America, Navy, mesne. Anchor release device. 3,436,795, 4-8-69, Cl. 24-241.
Hill, Charles W., to General Electric Company. Supporting stand. 3,430,980, 3-4-69, Cl. 280-150.5
Hill, Daryl G. Orchard heater. 3,451,387, 6-24-69, Cl. 126-59.5
Hill, Daryl G.; and Robert, Roderick C. Water-jacket warmer for stationary fuel tank. 3,451,225, 6-24-69, Cl. 62-50.
Hill, Dennis C.: *See—*
Fryer, Ross L.; and Hill, Dennis C.,3,479,997.
Hill, Dora Margaret: *See—*
Lambert, Arthur; Makinson, George Kenneth; and Hill, Arthur,3,466,318.
Hill, Earl E., Jr., to United States of America, Air Force. Electronic countermeasure plotting. 3,460,138, 8-5-69, Cl. 343-5.
Hill, Earl W.: *See—*
Lovette, Henry H.; and Hill, Earl W.,3,452,127.
Hill, Edward D. Roller for applying paint, ink and the like. 3,475,803, 11-4-69, Cl. 29-132.
Hill, Edward F. Mixing device. 3,462,131, 8-19-69, Cl. 259-95.
Hill, Edward H.: *See—*
Caldwell, John R.; and Hill, Edward H.,3,449,303.
Hill, Edwin R.: *See—*
Griffin, Thomas A.; Humrick, Richard J.; and Hill, Edwin R.,3,442,007.
Hill, Edwin R., to Kewanee Oil Company. Process of preparing a flexible rear wall photovoltaic cell. 3,472,690, 10-14-69, Cl. 117-215.
Hill, Erwin F.; and Latham, Raymond E., to Gray Tool Company. Burst disk arrangement. 3,467,120, 9-16-69, Cl. 137-68.
Hill, Forest G.: *See—*
Hempel, Herbert W.; and Hill, Forest G.,3,429,492.
Hill, Forrest L. Shield for a wire harness string tie cutting tool. 3,457,643, 7-29-69, Cl. 30-293.
Hill, Franics R.: *See—*
Weber, Arthur; Hill, Franics R.; and Rowe, David,3,436,365.

Hill, Frank W., to Bliss, E. W., Company. Traffic actuated control system having a control unit for each traffic phase. 3,473,147, 10-14-69, Cl. 340-37.
Hill, Fred N.; and Henry, Joseph P., to Union Carbide Corporation. Epoxidation process. 3,436,409, 4-1-69, Cl. 260-348.5
Hill, Frederick J., to FMC Corporation. Apparatus for the continous vaporphase acetylation of cellulose fiber. 3,462,978, 8-26-69, Cl. 68-5.
Hill, Fredrick L.: *See—*
Gates, Lauren W.; Holtz, Nickolas A.; and Hill, Fredrick L.,3,422,953.
Hill, Fredrick L., to University of California, The Regents of the. Tomato harvester separator. 3,455,453, 7-15-69, Cl. 209-396.
Hill, Fredrick L.; Gates, Lauren W.; and Friedel, William C., Jr., to University of California, The Regents of the. Conveyor transfer device. 3,429,440, 2-25-69, Cl. 209-241.
Hill, George R.: *See—*
Needham, Donald G.; and Hill, George R.,3,444,115.
Hill, George R.; and Needham, Donald G., to Phillips Petroleum Company. Flame-proofing additives and resins containing the same. 3,432,461, 3-11-69, Cl. 260-45.75
Hill, George R.; and Needham, Donald G., to Phillips Petroleum Company. Stabilization. 3,468,827, 9-23-69, Cl. 260-23.
Hill, Gerard T. Apparatus and method to selectively indicate ball positions. 3,466,038, 9-9-69, Cl. 273-14.
Hill, Harold I., to Perkin-Elmer Corporation, The. Blood gas analysis. 3,443,904, 5-13-69, Cl. 23-253.
Hill, Harold Taylor; and Law, Douglas Alexander, to Wellworthy Limited. Pistons for internal combustion engines. 3,425,323, 2-4-69, Cl. 92-186.
Hill, Harold Wayne, Jr., to Phillips Petroleum Company. Arylene sulfide polymer recovery. 3,457,242, 7-22-69, Cl. 260-79.
Hill, Harold W.: *See—*
Baxter, Duane W.; Felton, Bruce C.; Hill, Harold W.; and Hoffman, Harry S., Jr.,3,428,953.
Hill, Harry E.; and Kaiser, Donald W., to Olin Mathieson Chemical Corporation. Process for stabilizing a polyol phosphorus by adding limonene dioxide, vinylcyclohexene dioxide or dicyclodiepoxy carboxylate and composition. 3,439,068, 4-15-69, Cl. 260-928.
Hill, Ingman, Chase & Co.: *See—*
Chenoweth, Harry H.; and Ingman, Gordon G., 3,426,537.
Hill, Jack O.; and Harding, James L., to Hycalog, Inc., mesne. Method of forming an underwater trench. 3,423,945, 1-28-69, Cl. 61-72.
Hill, Jack: *See—*
Deinken, Herman P.; Hill, Jack; Bell, Donald L.; and Zastrow, John A.,3,485,360.
Hill, Jacque A. F.; and Draper, James S., to United States of America, Air Force. Fluidized particle dispenser. 3,432,208, 3-11-69, Cl. 302-53.
Hill, James A.: *See—*
Bloom, Melvin S.; and Hill, James A.,3,458,506.
Hill, James C., to Monsanto Company. Thermal dealkylation of alkyl aromatic compounds employing a hydrogen donor and molecular hydrogen. 3,483,266, 12-9-69, Cl. 260-672.
Hill, James C.: *See—*
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N.,3,459,821.
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N.,3,485,883.
Hill, James J., to World-Wide Electronics, Inc. Electronic device for separating voice from frequency control signals. 3,456,162, 7-15-69, Cl. 317-138.
Hill, James S.: *See—*
Hauel, Anna P.; Hill, James S.; and Reilly, William E.,3,437,525.
Hill, Jeremy Allan: *See—*
English, James; Putner, Tony Ian; Watts, John Francis; and Hill, Jeremy Allan,3,445,673.
Hill, John A., to Squibb, E. R., & Sons, Inc. Controlled release tablet. 3,458,622, 7-29-69, Cl. 424-19.
Hill, John G.: *See—*
Lynch, John M.; and Hill, John G.,3,480,716.
Hill, John K.: *See—*
Ackerman, Carl D.; and Hill, John K.,3,481,203.
Hill, John L., to Ramsey Engineering Company. Load control system. 3,459,378, 8-5-69, Cl. 241-35.
Hill, John L.: *See—*
Lynn, Richard G., Sr.; Machulda, James R.; and Hill, John L.,3,431,858.
Hill, John. Method of making semiconductor devices. 3,440,717, 4-29-69, Cl. 29-588.
Hill, John. Drum or reel for cable. 3,471,009, 10-7-69, Cl. 206-59.
Hill, Keith Alan: *See—*
Lambert, Arthur; Makinson, George Kenneth; and Hill, Arthur,3,466,318.
Hill, Kenneth L.: *See—*
Wilson, Kenneth R.; and Hill, Kenneth L.,3,434,822.
Hill, Lawrence R.: *See—*
Intrater, Josef; and Hill, Lawrence R.,3,468,722.
Hill, Le Roy D.; and Sanders, Robert M., to North American Rockwell Corporation, mesne. Pattern mechanism for knitting machines. 3,444,706, 5-20-69, Cl. 66-154.
Hill, Leroy D.; Imboden, Walter H.; and Riehl, Melvin E., to North American Rockwell Corporation, mesne. Pattern means for knitting machines. 3,439,513, 4-22-69, Cl. 66-154.
Hill, Lester A., Jr.: *See—*
Braus, Harry; Hager, Jerome E.; and Hill, Lester A., Jr.,3,462,375.
Hill, Lestera A., Jr.: *See—*
Braus, Harry; Hager, Jerome E.; and Hill, Lestera A., Jr.,3,480,581.
Hill, Marion E., to Stanford Research Institute. Process for the production of heat-stable fluorinated orthocarbonates, and novel compounds produced thereby. 3,426,078, 2-4-69, Cl. 260-615.
Hill, Morse; and Matas, Stephen J., to Republic Steel Corporation. High strength alloy steel compositions and process of producing high strength steel including hot- cold working. 3,453,152, 7-1-69, Cl. 148-12.4
Hill, Morse: *See—*
Reusser, Hans E.; and Hill, Morse,3,478,523.
Hill, Norman C.: *See—*
Ainsworth, Willard E.; and Hill, Norman C.,3,427,849.
Hill, Olen E.: *See—*
Davis, John W.; and Hill, Olen E.,3,469,734.
Hill, Oscar K., to Better Packages, Inc. Liquid applicator for strip material. 3,468,287, 9-23-69, Cl. 118-246.
Hill, Philip Melvin, to Abbott Laboratories. Universally useful stock material for manufacturing plastic dosage units by compression tableting processes. 3,453,360, 7-1-69, Cl. 424-22.
Hill, Preston L., to McDonnell Douglas Corporation, mesne. Rollweld cylinder fabrication. 3,465,412, 9-9-69, Cl. 29-423.
Hill, Ralph L., to Minnesota Mining and Manufacturing Company. Packaging. 3,437,195, 4-8-69, Cl. 206-47.
Hill, Raymond Roger. Adjustable advance limiter for ignition systems. 3,430,459, 3-4-69, Cl. 64-25.
Hill, Richard N.; and Brackney, Harry S., to Grace, W. R., & Co. Process for reducing the evolution of fluorine values from triple superphosphate fertilizer. 3,431,096, 3-4-69, Cl. 71-41.
Hill, Richard Norman; and Bartik, William John, to Sperry Rand Corporation. Magnetic switch. 3,465,165, 9-2-69, Cl. 307-88.
Hill, Robert E.; Mills, George B.; and Morriss, Reuben M., Jr., to Monsanto Company. Wood treating composition. 3,474,172, 10-21-69, Cl. 424-294.
Hill, Robert R.: *See—*
Espenschied, Edward P.; and Hill, Robert R.,3,446,491.
Hill, Robert W.: *See—*
Galiano, Francis R.; and Hill, Robert W.,3,461,186.
Hill, Robert W.; and Galiano, Francis R., to Gulf Oil Corporation. Aminoplast coatings having hydroxyl containing styrene copolymer and alkyd resin incorporated therein. 3,480,693, 11-25-69, Cl. 260-850.
Hill, Robert W.; and Hopkins, Thomas R., to Gulf Oil Corporation. 3-Oxa-16-pentacosenamide and 3-oxa-12- heneicosenamide. 3,467,706, 9-16-69, Cl. 260-561.
Hill, Ronald C.: *See—*
Herzog, John H.; and Hill, Ronald C.,3,461,763.
Hill, Roy R., to Rheem Manufacturing Company. Method of forming excavation teeth. 3,425,117, 2-4-69, Cl. 29-475.
Hill, Russell J.: *See—*
Rogen, Neil E.; and Hill, Russell J.,3,440,997.
Rogen, Neil E.; and Hill, Russell J.,3,483,748.
Rogen, Neil E.; and Hill, Russell J.,3,483,752.
Hill Top Research, Inc.: *See—*
Majors, Paul A., 3,447,657.
Hill, Uno T., to Inland Steel Company. Method and apparatus for automatic control of pickling system. 3,427,198, 2-11-69, Cl. 134-10.
Hill, Uno T., to Inland Steel Company. Pickling bath control apparatus and method. 3,433,670, 3-18-69, Cl. 134-10.
Hill, Vernon L.; Rausch, John J.; Hess, Alan L.; Van Thyne, Ray J.; and Nichols, Harry R., to IIT Research Institute. Hafnium base alloys. 3,446,615, 5-27-69, Cl. 75-134.
Hill, Virgil; and Russo, Frank W. Changeable nameplate. 3,419,983, 1-7-69, Cl. 40-95.
Hill, William G.: *See—*
Stevens, Allan Ernest; Hill, William G.; and Aldous, David John,3,461,269.
Hill, William H.: *See—*
Brody, Lee; and Hill, William H.,3,449,949.
Hill, William H., to Hughes Aircraft Company. Self-aligning welding fixture. 3,487,192, 12-30-69, Cl. 219-119.
Hill, William J., to Morgan Construction Company. Cooling bed construction. 3,462,004, 8-19-69, Cl. 198-219.
Hill, William J.: *See—*
Sieurin, Donald; and Hill, William J.,3,429,167.
Woodrow, Harold E.; and Hill, William J.,3,439,882.
Hill, William Melville: *See—*
Dicks, Peter Derek John; and Hill, William Melville,3,482,013.
Hill, William T., to Reliance Electric and Engineering Company, The , mesne. Weighing system. 3,437,160, 4-8-69, Cl. 177-211.

Hill-Rom Company, Inc.: *See—*
Burst, Francis J., 3,436,769.
Hillander, Oscar Hilding, to Stal-Laval Turbin AB. Arrangement for mounting bearings for counter- rotating shafts and a bearing therefor. 3,468,587, 9-23-69, Cl. 308-15.
Hillander, Oscar Hilding, to Stal-Laval Turbin AB. Shaft bearings for counterrotating propeller shafts. 3,471,206, 10-7-69, Cl. 308-15.
Hillander, Oscar Hilding; and Jung, Ingvar Karl Einar, to Stal-Laval Turbin AB. Arrangement in sea-going vessels powered with two counter-rotating propellers. 3,454,098, 7-8-69, Cl. 170-135.28
Hillas, Kenneth M., to Union Carbide Corporation. Process for bonding non-woven scrim. 3,444,024, 5-13-69, Cl. 156-306.
Hillas, Kenneth M., to Union Carbide Corporation. Method of bonding non-woven scrim. 3,444,025, 5-13-69, Cl. 156-306.
Hillberg, Ernest T.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,472,069.
Hillbom, Per Tage Borje: *See—*
Groschopp, Herbert Gerhard; Hillbom, Per Tage Borje; and Nilsson, Bengt Erik,3,474,274.
Hille Engineering Company Limited, The: *See—*
Wilson, Alexander Ian, 3,433,045.
Wilson, Alexander Ian, 3,485,077.
Hille, Ernst: *See—*
Meininger, Fritz; and Hille, Ernst,3,435,023.
Hille, Lawrence S.: *See—*
Solberg, Conrad J.; Hille, Lawrence S.; Schoenherr, Henry W.; and Solstad, Russell V.,3,449,828.
Hille, Peter J. Heating device for aircraft engines. 3,451,663, 6-24-69, Cl. 263-19.
Hillebrand, Friedhelm: *See—*
Heim, Armin; and Hillebrand, Friedhelm,3,480,072.
Pfaff, Herbert; Lasseur, Walter; and Hillebrand, Friedhelm,3,447,806.
Hillebrand, Heinrich, to Braunschweigische Maschinenbauanstalt. Centrifugal machine. 3,428,182, 2-18-69, Cl. 210-369.
Hillegass, Donald V.: *See—*
Menapace, Henry R.; Maly, Neil A.; Benner, Gereld S.; and Hillegass, Donald V.,3,446,861.
Hillegass, Kenneth P., to Goodyear Tire & Rubber Company, The. Disc brake with quick change lining structure. 3,432,007, 3-11-69, Cl. 188-73.
Hillegass, Kenneth P., to Goodyear Tire & Rubber Company, The. Brake lining fastener. 3,486,589, 12-30-69, Cl. 188-73.
Hillegass, Kenneth P.; and Gowins, John F., to Goodyear Tire & Rubber Company, The. Clutch with centrifugally balanced piston and accumulator. 3,438,472, 4-15-69, Cl. 192-106.
Hilleman, George L., to Vulcan Manufacturing Company, Inc. Dishwashing machine. 3,446,219, 5-27-69, Cl. 134-100.
Hillen, Cecil Frederick John. Telecommunication switching systems. 3,469,035, 9-23-69, Cl. 179-18.
Hillen, Henri F. J., to Construction Techniques, Inc. mesne. Form for constructing a slab for talus or bottom protection. 3,425,227, 2-4-69, Cl. 61-38.
Hiller, Alexander J.: *See—*
Caldwell, John H., IV; Klee, Charles W.; Hiller, Alexander J.; Hanley, Thure E.; and Mathes, Robert H.,3,475,637.
Hiller, Fred L.: *See—*
Tsao, George T.; Reid, Thornton H.; Hiller, Fred L.; and Hubbard, Lawrence H.,3,432,345.
Hiller, Johannes: *See—*
Gaissert, Heinz; and Hiller, Johannes,3,433,345.
Hiller, Karl-Heinz; Kindler, Hubert; Scholz, Heinrich; and Strohmeyer, Max, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of p-dialkylbenzenes. 3,444,255, 5-13-69, Cl. 260-671.
Hillert, Lars Hilding, to Elektriska Svetsningsaktiebolaget. Method of making coated arc welding electrodes. 3,447,959, 6-3-69, Cl. 117-202.
Hillert, Lars Hilding, to Elektriska Svetsningsaktiebolaget. Method of making a tubular welding wire or welding rod enclosing a core composed of powdered constituents. 3,452,419, 7-1-69, Cl. 29-420.5
Hillert, Lars Hilding, to Elektriska Svetsningsaktiebolaget. Method of making coated arc welding electrodes. 3,468,999, 9-23-69, Cl. 264-174.
Hillert, Lars Hilding, to Elektriska Svetsningsaktiebolaget. Method of making coated arc welding electrodes. 3,472,686, 10-14-69, Cl. 117-205.
Hillhouse, David L., to General Electric Company. Digital capacitance motion transducer. 3,487,402, 12-30-69, Cl. 340-347.
Hillhouse, Mial T., to Goodyear Tire & Rubber Company, The. Tire stud. 3,480,062, 11-25-69, Cl. 152-210.
Hilliard Corporation, The: *See—*
Wilansky, Harold, 3,425,563.
Hilliard, Merle: *See—*
Sunderman, Elwin; and Hilliard, Merle,3,444,781.
Hillier, Edward F. H. B., to Dowty Seals Limited. Gasket assemblies. 3,477,867, 11-11-69, Cl. 117-4.
Hillier, Malcolm Edwin, to Marbaix, Gaston E., Limited. Feeding of nails and the like for fastening machines. 3,442,374, 5-6-69, Cl. 206-56.
Hillier, Malcolm Edwin, to Marbaix, Gaston E., Limited. Pneumatic devices for driving fasteners or like purposes. 3,479,926, 11-25-69, Cl. 91-461.
Hillis, Donuil A., to United States of America, National Aeronautics and Space Administration. Drift compensation circuit for analog-to-digital converter. 3,430,227, 2-25-69, Cl. 340-347.
Hillman, Donald A., to Phillips Petroleum Company. Diluent purification process and apparatus. 3,484,427, 12-16-69, Cl. 260-94.7
Hillman, Gary; and Douches, Joseph Luke, to Mitronics Inc. Silk screen apparatus for precision coating articles. 3,486,441, 12-30-69, Cl. 101-35.
Hillman, Kurt: *See—*
Geller, William; and Hillman, Kurt,3,423,631.
Geller, William; and Hillman, Kurt,3,466,496.
Hillman, Melville E. D., to Chevron Research Corporation. C-9 to C-20 p-alkylphenyldichloroboranes. 3,439,030, 4-15-69, Cl. 260-543.
Hillman, Murray J., to Hycon Mfg., Company. Velocity comparator for devices having intermittent motion. 3,469,515, 9-30-69, Cl. 95-12.5
Hillman, Robert C., to Whitney Blake Company, The. Method of making jacketed multiconduction electrical cable. 3,420,720, 1-7-69, Cl. 156-53.
Hillmann, Otto, to International Standard Electric Corporation. Control of a relay chain circuit. 3,423,637, 1-21-69, Cl. 317-26.
Hills, Bernard T., to Victor Comptometer Corporation. Fishing rod. 3,469,338, 9-30-69, Cl. 43-18.
Hills, David G., to Monsanto Company. Container. 3,443,710, 5-13-69, Cl. 215-1.
Hills, Derek William: *See—*
Bartels-Keith, James Richard; and Hills, Derek William,3,468,891.
Hills, George B.: *See—*
Chisholm, John J.; and Hills, George B.,3,448,706.
Hills, George S.: *See—*
Patterson, Morehead,3,428,052.
Hills, James F., to Lockheed Aircraft Corporation. Nut formed with multiple torque-off collars. 3,444,775, 5-20-69, Cl. 85-61.
Hills, William H.: *See—*
Chidgey, Ronald W.; and Hills, William H.,3,447,296.
Hills-McCanna Company: *See—*
Flynn, Jac B., 3,455,321.
Priese, Werner K., 3,425,663.
Priese, Werner K.; and Robbins, Vernon E., 3,439,897.
Priese, Werner K.; and Davies David J., 3,445,087.
Priese Werner K., 3,451,423.
Priese, Werner K., 3,462,120.
Priese, Werner K.; and Davies, David J., 3,480,253.
Hillseth, Paul W. Aircraft hanger and door structure associated therewith. 3,475,861, 11-4-69, Cl. 49-358.
Hillyer, Martin J., to Shell Oil Company. Epoxy containing concrete. 3,477,979, 11-11-69, Cl. 260-29.2
Hilpert, Conrad R., to Twin Disc Clutch Company. Control for a modulated clutch and reversible transmission with shift-restricting inhibitors. 3,438,469, 4-15-69, Cl. 192-3.5
Hilpert, Conrad R., to Twin Disc Clutch Company. Clutch plates having means to prevent flutter. 3,446,323, 5-27-69, Cl. 192-70.11
Hilpert, Conrad R., to Twin Disc, Incorporated. Clutch having radially shiftable means to prevent flutter. 3,472,348, 10-14-69, Cl. 192-70.23
Hilpert, Conrad R., to Twin Disc, Incorporated. Clutch having a skewed surface means to prevent flutter. 3,482,668, 12-9-69, Cl. 192-70.14
Hilpert, Conrad R.; and Black, James B., to Twin Disc, Incorporated. Self-stabilizing power transmitting device having hydraulically actuated friction plates and torque responsive hydraulic inverse feedback. 3,420,344, 1-7-69, Cl. 192-56.
Hilpert, Conrad R.; and De Long, Roger G., to Twin Disc, Incorporated. Constant speed clutch and torque converter transmission. 3,469,663, 9-30-69, Cl. 192-3.33
Hilpert, Fritz, to International Business Machines Corporation. Paper feed device. 3,477,626, 11-11-69, Cl. 226-9.
Hilpert, Richard: *See—*
Gorke, Klaus; Hilpert, Richard; Schleimer, Bernhard; and Dittmann, Walter,3,442,675.
Hils, Neal C., 1/2 to Naidenoff, John V. Vehicle articulating coupling with electrical and fluid service line connectors. 3,428,334, 2-18-69, Cl. 280-421.
Hilsinger, Harry A., Jr.; and Kindermann, Wilfred J., to Bell Telephone Laboratories, Incorporated. Latch mechanism for a retractile cord reel. 3,462,095, 8-19-69, Cl. 242-107.7
Hilsinger, Russell J. Fluid separating device. 3,483,987, 12-16-69, Cl. 210-223.
Hilsum, Cyril: *See—*
Broom, Ronald Francis Johnston; Hilsum, Cyril; Bayley, Donald; and Ralphs, John Dennis,3,443,109.

Hilten, John S.: *See—*
Nerwin, Henry Norman, Jr.; Leadbeter, Willard S.; and Hilten, John S.,3,445,289.
Hiltgen, Aloysius X.; and Matz, William H., to Calgon Corporation, mesne. Activated carbon tablet. 3,454,502, 7-8-69, Cl. 252-428.
Hilti Aktiengesellschaft: *See—*
Bayer, Johann Wolfgang, 3,424,361.
Bayer, Wolfgang; and Rangger, Herbert, 3,482,753.
Rangger, Herbert; Seghezzi, Hans-Dieter; and Batliner, Elmar, 3,472,440.
Rangger, Herbert, 3,473,717.
Streng, Alfred Josef; and Zurcher, Kurt, 3,426,412.
Thurner, Elmar, 3,478,638.
Hilti, Martin, to Anstalt fur Montage-Technik. Fastener and package therefor. 3,428,169, 2-18-69, Cl. 206-56.
Hilton, Albert R.; and Jones, Charlie E., Jr., to Texas Instruments Incorporated. Method and apparatus for measuring the thickness of films by means of elliptical polarization of reflected infrared radiation. 3,426,201, 2-4-69, Cl. 250-83.3
Hilton, Garrett H., Jr.: *See—*
Peters, Harry L.; Nessim, David J.; Morrow, James J.; and Hilton, Garrett H., Jr.,3,471,391.
Hilton, Gay E.: *See—*
Laughlin, Charles R., Jr.; Hilton, Gay E.; Lavigne, Richard C.; and Hollenbaugh, Roger C.,3,471,856.
Hilton, H. H., Inc.: *See—*
Bayard, Frank W., Jr., 3,473,750.
Hilton, Kenneth; and Taylor, William R. Microwave heating devices. 3,474,213, 10-21-69, Cl. 219-10.5
Hilton, Ralph William, to Harvey Aluminum (Incorporated). Pressure compensating resealable plug. 3,472,416, 10-14-69, Cl. 220-60.
Hilton, Thomas B.; and Kowalski, Xavier, to Monsanto Company. Compositions for and processes of bleaching treated textiles. 3,431,206, 3-4-69, Cl. 252-99.
Hilton, Thomas B.; and McEwan, Gilbert J., to Monsanto Company. Detergent compositions. 3,444,086, 5-13-69, Cl. 252-138.
Hilty, Walden K., to Ross & Rowe, Inc. Lecithin compositions. 3,480,544, 11-25-69, Cl. 252-1.
Hiltz, Ralph H., to Mine Safety Appliances Company. Carbon dioxide generating compositions. 3,477,955, 11-11-69, Cl. 252-4.
Hilux Holdings Societe Anonyme: *See—*
Mills, Arnold T., 3,430,654.
Hilvman, Lee, to Universal Oil Products Company. Manufacture of spheroidal silica-alumina particles. 3,437,603, 4-8-69, Cl. 252-453.
Hilzen, Hy. Electrical lighting fixtures with heat-collecting and heat-dissipating means. 3,428,798, 2-18-69, Cl. 240-3.
Himel, Curtis Joseph. Air cleaning apparatus. 3,480,262, 11-25-69, Cl. 261-22.
Himelreich, Louis E., to Scheirich, H. J., Company. Cabinet formed of grooved and folded laminated panels. 3,472,571, 10-14-69, Cl. 312-259.
Himelreich, Louis E., to Scheirich, H. J., Company. Cabinet structure employing grooved and folded laminated panels. 3,472,572, 10-14-69, Cl. 312-259.
Himelsbaugh, Rudolph, to Thermal Engineering & Design Company. Method of attaching a metal base plate to a plastic container. 3,421,467, 1-14-69, Cl. 113-121.
Himes, Don I.; and Schlisser, Gabor, to International Telephone and Telegraph Corporation. Bidirectional electronic phase shifter. 3,482,171, 12-2-69, Cl. 328-155.
Himes, Glenn R.: *See—*
Martin, Jon W.; Snyder, John L.; and Himes, Glenn R.,3,473,240.
Himes, Walter: *See—*
Davidse, Pieter D.; Koster, Lawrence R.; and Himes, Walter,3,423,303.
Himm, Dieter: *See—*
Henn, Erwin; and Himm, Dieter,3,446,441.
Himmel, Franz, to Fritz Drexler. Sealing connection. 3,429,581, 2-25-69, Cl. 277-180.
Himmel, Rene K.: *See—*
Gordon, Thomas T.; and Himmel, Rene K.,3,472,675.
Himmelbauer, Erich Eduard; and Peper, Jan, to U.S. Philips Corporation, mesne. Arrangement for correcting deflection errors in a cathode-ray tube. 3,449,621, 6-10-69, Cl. 315-25.
Himmelheber, Max; and Steiner, Klaus. Stratified wood composition panel. 3,447,996, 6-3-69, Cl. 161-55.
Himmelmann, Wolfgang: *See—*
Frank, Karl; Himmelmann, Wolfgang; and Ulrich, Hans,3,467,519.
Himmelmann, Wolfgang; Moll, Franz; Posse, Rolf-Fred; Riebel, Alexander; and Ulrich, Hans, to Agfa Aktiengesellschaft. Photographic silver halide material containing carboxyalkylated dextrin. 3,441,412, 4-29-69, Cl. 96-94.
Himmelmann, Wolfgang; Riebel, Alexander; Zenner, Karl-Friedrich; and Meckl, Heinz, to Agfa-Gevaert Aktiengesellschaft. Hardening of photographic gelatin-containing layers. 3,480,440, 11-25-69, Cl. 96-111.
Lassig, Wolfgang; Riebel, Alexander; Puschel, Walter; and Himmelmann, Wolfgang,3,480,431.
Himmelsbach, Paul, to Schneider, Jos., & Co. Mechanism for differently displacing two movable components in an optical objective. 3,480,349, 11-25-69, Cl. 350-187.
Himmelstein, Sidney: *See—*
Tveter, Richard S., 3,441,886.
Himmelstein, Sydney: *See—*
Tveter, Richard S.; and Himmelstein, Sydney,3,441,187.
Himmler, William A.: *See—*
Dickert, Eugene A.; and Himmler, William A.,3,471,418.
Himy, Albert: *See—*
Solomon, Frank; and Himy, Albert,3,450,566.
Hinaga, Yasushi: *See—*
Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi,3,484,866.
Hinck, Ernest C., III; and Bowen, John T., to Ingersoll-Rand Company. Housing for portable machines. 3,478,958, 11-18-69, Cl. 230-232.
Hind, Harry W. Ear guard for water polo players. 3,454,962, 7-15-69, Cl. 2-2.
Hind, John D., to Philip Morris Incorporated. Method of puffing tobacco stems. 3,425,425, 2-4-69, Cl. 131-140.
Hind, John D., to Philip Morris Incorporated. Process for the treatment of tobacco. 3,483,874, 12-16-69, Cl. 131-140.
Hind, John D.; and Seligman, Robert B., to Philip Morris Incorporated. Method of preparing a reconstituted tobacco sheet employing a pectin adhesive. 3,420,241, 1-7-69, Cl. 131-140.
Hind, John D.; and Seligman, Robert B., to Philip Morris Incorporated. Method of preparing a reconstituted tobacco sheet. 3,435,829, 4-1-69, Cl. 131-140.
Hinde, William L.: *See—*
Gogia, Jugal K.; Hinde, William L.; and Seldner, Kurt,3,427,466.
Hinden, Milton. Motorized damper assembly for ducts of varying widths. 3,457,849, 7-29-69, Cl. 98-110.
Hinderer, Edward F., to Ajem Laboratories Inc. Valve for leak testing system. 3,483,733, 12-16-69, Cl. 73-40.
Hinderer, Edward F.; and Dallier, Charles F., to Ajem Laboratories, Inc. Circuitry for leak tester. 3,457,775, 7-29-69, Cl. 73-40.
Hinderer, Helmuth E.; and Smith, Ralph W., to Monsanto Company. Soluble aromatic polyamides containing bridged para-biphenylene linkages. 3,467,623, 9-16-69, Cl. 260-47.
Hindermann, Peter: *See—*
Kolliker, Hans Peter; and Hindermann, Peter,3,421,828.
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann; Peter,3,455,969.
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann, Peter,3,462,463.
Schwander, Hans Rudolf; Zenhausern, Anton; and Hindermann, Peter,3,431,285.
Hindersinn, Raymond R.: *See—*
Ilardo, Charles S.; and Hindersinn, Raymond R.,3,433,654.
Hindersinn, Raymond R., to Hooker Chemical Corporation. Polyesters of diacid halide bisphenol and aliphatic modifier. 3,471,441, 10-7-69, Cl. 260-47.
Hindersinn, Raymond R., to Hooker Chemical Corporation. Novel chlorocarbon. 3,475,502, 10-28-69, Cl. 260-648.
Hindersinn, Raymond R., to Hooker Chemical Corporation. Fire retardant thermoplastic compositions. 3,483,272, 12-9-69, Cl. 260-876.
Hindersinn, Raymond R.; and Ilardo, Charles S., to Hooker Chemical Corporation. Fire resistant compositions comprising an elastomer and a fatty ester-halogenated cyclopentadiene adduct. 3,449,279, 6-10-69, Cl. 260-23.7
Hindersinn, Raymond R.; and Witschard, Gilbert, to Hooker Chemical Corporation. Fire retardant intumescent coating compositions. 3,449,161, 6-10-69, Cl. 117-136.
Hindin, Herbert B.; Klang, Robert S.; and Phillips, George M., to Mohawk Rubber Company, The. Vehicle tires. 3,452,799, 7-1-69, Cl. 152-353.
Hindin Saul Gerald; and Dettling, Joseph C., to Engelhard Industries, Inc. Process for making a faujasite-type crystalline zeolite. 3,484,194, 12-16-69, Cl. 23-113.
Hindin, Saul G.: *See—*
Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A.,3,420,784.
Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A.,3,423,328.
Hindle, Son & Co.: *See—*
Hindle, Thomas, 3,460,582.
Hindle Son & Co., Limited: *See—*
Hindle, Thomas; and Banks, David Dugmore, 3,452,908.
Hindle, Thomas, to Hindle, Son & Co. Loom dobbies. 3,460,582, 8-12-69, Cl. 139-68.
Hindle, Thomas; and Banks, David Dugmore, to Hindle Son & Co., Limited. Guiding means for paper-machine felts and other continuous moving webs or bands. 3,452,908, 7-1-69, Cl. 226-21.
Hindley, James W. Catch for perforated board attachments. 3,477,677, 11-11-69, Cl. 248-220.5

Hindman, Clarence B.; and Junkins, James S., to Sterling Faucet Company, mesne. Simplified ball cock assembly. 3,459,210, 8-5-69, Cl. 137-216.
Hindman, Robert G.; and Bardgette, John J., to Esso Production Research Company, mesne. Apparatus for use with offshore marine structures. 3,426,542, 2-11-69, Cl. 61-46.
Hinds, Cyril, to Oil Center Research, Inc. Fish bait composition. 3,428,459, 2-18-69, Cl. 99-3.
Hinds, Cyril, to Oil Center Research, Inc. Packing and sealing composition. 3,445,393, 5-20-69, Cl. 252-58.
Hinds, Hubert. Derrick. 3,482,713, 12-9-69, Cl. 214-1.
Hinds, James C.: *See—*
Herbert, Richard M.; and Hinds, James C.,3,476,411.
Hinds, John A.: *See—*
Weems, Sterling J.; Hinds, John A.; and Mandil, Harry I.,3,423,286.
Hinds, Lennox S.: *See—*
Burke, Walter E.; and Hinds, Lennox S.,3,462,598.
Hinds, Robert J.; and Premo, Paul M., to Chevron Research Company. Continuous distillation of sulfur dichloride- sulfur monochloride to recover pure sulfur dichloride. 3,479,253, 11-18-69, Cl. 203-6.
Hine, Fumio; Takehara, Zenichiro; and Yoshizawa, Shiro, to Olin Mathieson Chemical Corporation. Electrolytic process of making chlorine. 3,481,847, 12-2-69, Cl. 204-128.
Hine, Louis P., Jr., to Luxaire, Inc. Balanced flue enclosed infra-red heater. 3,434,466, 3-25-69, Cl. 126-92.
Hine, Louis P., Jr., to Luxaire, Inc. Direct ignition of fluid fuel burners. 3,457,020, 7-22-69, Cl. 431-66.
Hine, William Robert, Jr.; and Holm, Myron J., to Monsanto Company. Cellulosic paper sized with an alkyl acrylate or propiolate and a polyalkyleneimine. 3,461,029, 8-12-69, Cl. 162-168.
Hines, E. W., and Associates: *See—*
Hines, Eugene W., 3,460,015.
Hines, E. W., Associates: *See—*
Hines, Eugene W., 3,429,155.
Hines, Eugene W., to Hines, E. W., Associates. Positioning control system. 3,429,155, 2-25-69, Cl. 72-9.
Hines, Eugene W., to Highway Products, Inc. Stabilizing control for articulated vehicles. 3,439,936, 4-22-69, Cl. 280-432.
Hines, Eugene W., to Hines, E. W., and Associates. Positioning control system. 3,460,015, 8-5-69, Cl. 318-117.
Hines, Gail Hamilton. Ball game including chance ball path disrupter. 3,438,631, 4-15-69, Cl. 273-95.
Hines, James L. R. Time counting traffic signalling system. 3,480,909, 11-25-69, Cl. 340-43.
Hines, John, to New England Lock and Hardware Co., The. Thumb knob attachment for mortise-type lock. 3,435,644, 4-1-69, Cl. 70-129.
Hines, Marion E., to Microwave Associates, Inc. Digital electric wave phase shifters. 3,423,699, 1-21-69, Cl. 333-31.
Hines, Marion E.; and Helszajn, Joseph, to Microwave Associates, Inc. Ferrite junction circulators having biasing connector wire at ferrite center. 3,457,525, 7-22-69, Cl. 333-1.1
Hines, Paul J. Flexible resistance element film. 3,457,537, 7-22-69, Cl. 338-162.
Hines, Vernon C. Safety harness for flexible hose and the like. 3,431,947, 3-11-69, Cl. 138-106.
Hines, Walter; Bixby, William E.; and Quateman, Joseph I., to Bell & Howell Company. Method and article of creating opaque surface on transparent films. 3,424,640, 1-28-69, Cl. 161-6.
Hines, Walter: *See—*
Smitzer, Louis A.; Tyler, Len A.; Hines, Walter; and Bixby, William E.,3,442,585.
Hing, Francisco S.: *See—*
Billerbeck, Fred W.; Hing, Francisco S.; and Purvis, George A.,3,429,711.
Hinger, William R., to Wehr Corporation. Latch assembly for material handling magnet. 3,477,050, 11-4-69, Cl. 335-285.
Hini, Paul, to Siemens Aktiengesellschaft. Revolution counter. 3,456,097, 7-15-69, Cl. 235-92.
Hini, Paul, to Siemens Aktiengesellschaft. Noncontact electrical coupling semiconductor device. 3,471,722, 10-7-69, Cl. 310-10.
Hiniker, Kenneth S. Flexible extension for chemical band spreader. 3,474,746, 10-28-69, Cl. 111-85.
Hinkebein, John A., to Monsanto Company0000000000. Process for recovering phosphorus from sludge. 3,436,184, 4-1-69, Cl. 23-223.
Hinkebein, John A., to Monsanto Company. Phosphorus production. 3,442,621, 5-6-69, Cl. 23-223.
Hinkein, Donald J.: *See—*
Bradley, Mark E.; and Hinkein, Donald J.,3,427,494.
Hinkein, Donald J.; and Liu, Der Sheng, to International Business Machines corporation. Graphic deflection system employing variably damped deflection winding. 3,431,457, 3-4-69, Cl. 315-18.
Hinkel, Russel G., Sr.: *See—*
Hinkel, Walter D.; and Hinkel, Russel G., Sr.,3,426,460.
Hinkel, Walter D.; and Hinkel, Russel G., Sr. Smooth bite attachment for a clam-shell bucket. 3,426,460, 2-11-69, Cl. 37-184.
Hinkeldey, Arno, to Siemens Aktiengesellschaft. Indirectly heated dispenser cathode for electronic discharge devices. 3,441,780, 4-29-69, Cl. 313-346.
Hinkle, Charles E.: *See—*
Hinkle, John T.; and Hinkle, Charles E.,3,464,244.
Hinkle, Donald L. Safety coupling or connector. 3,462,179, 8-19-69, Cl. 287-100.
Hinkle, Donald L., to Berry, William B. Transporter and anchor for well casing interliner or boot. 3,463,229, 8-26-69, Cl. 166-207.
Hinkle, John T.; and Hinkle, Charles E. Automobile key case. 3,464,244, 9-2-69, Cl. 70-456.
Hinkle, Lloyd A. Structural assembly. 3,456,921, 7-22-69, Cl. 256-22..
Hinkley, Everett D.: *See—*
Rediker, Robert H.; Hinkley, Everett D.; and Jadus, Dale K.,3,486,949.
Hinkson, Arthur William. Remote control toy. 3,481,071, 12-2-69, Cl. 46-240.
Hinkson, Clair L. Swivel hanger for fishing lure. 3,426,468, 2-11-69, Cl. 43-42.74
Hinkson, Robert E.: *See—*
Reed, Thomas G., Jr.; and Hinkson, Robert E.,3,442,737.
Hinlein, Sigmund, to Honeywell Inc. Method of fabricating magnetic transducers. 3,479,737, 11-25-69, Cl. 29-603.
Hinman, Clinton R.: *See—*
Jones, Cordis W.; and Hinman, Clinton R.,3,433,123.
Hinman, Richard L.: *See—*
Hedaya, Eddie; Theodoropulos, Spyros; and Hinman, Richard L.,3,472,817.
Hinn, John S.: *See—*
Webster, Robert C.; and Hinn, John S.,3,453,121.
Hino, Masamichi, to Kubota Iron and Machinery Works, Ltd. Weighing apparatus. 3,421,594, 1-14-69, Cl. 177-223.
Hino, Masamichi, to Kubota Tekko Kabushiki Kaisha, a/k/a Kubota, Ltd. Weighing machine. 3,472,330, 10-14-69, Cl. 177-214.
Hino, Takashi: *See—*
Fukuda, Masataro; Hirai, Taketsugu; Hino, Takashi; Shiramoto, Tomizo; Sawada, Isoo; and Yanagihara, Nobuyuki,3,443,999.
Hinohara, Keiichi: *See—*
Toyoda, Hiromichi; Tayama, Kazuo; Miyazaki, Yoshitoshi; Hinohara, Keiichi; and Suzuki, Hisao,3,472,071.
Hinoshita, Shigehiko: *See—*
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshnio, Maroshi,3,437,839.
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshino, Maroshi,3,441,750.
Hinrichs, Helmut: *See—*
Niedetzky, Johann; and Hinrichs, Helmut,3,440,021.
Hinrichs, Horst; and Mensing, Walter, to Westinghouse Bremsen- und Apparatebau, G.m.b.H. Fluid pressure braking apparatus combined with spring-applied braking apparatus. 3,443,839, 5-13-69, Cl. 303-2.
Hinrichs, John F., to Smith, A. O., Corporation. Rapid load system for electron beam welder. 3,430,029, 2-25-69, Cl. 219-121.
Hinrichs, Karl; and Diederich, Perry A., to Beckman Instruments, Inc. Detector for pulse code modulated signals with feedback for baseline correction. 3,421,093, 1-7-69, Cl. 329-104.
Hinrichsen, Hans V., to Fulton Company, The. Adjustable load support. 3,474,997, 10-28-69, Cl. 248-354.
Hinschlager, Rudolf F.: *See—*
Miller, Alfred J.; Hinschlager, Rudolf F.; Allan, Stewart; and Weidner, William C.,3,462,135.
Hinson, Claudell: *See—*
Cauthen, John V.; Hinson, Claudell; Ledford, Garland M.; and Abe, Fujio,3,459,235.
Hinson, Larry D.: *See—*
Payne, Jackie E.; and Hinson, Larry D.,3,450,769.
Hinssen, Andreas Petrus Paulus; and Smeelen, Theodorus Johannes Henricus, to U.S. Philips Corporation, mesne. Incandescent lamp having a filament surrounded by a wire screen. 3,457,449, 7-22-69, Cl. 313-315.
Hinterholzer, Hans. Brake attachment for ski. 3,433,494, 3-18-69, Cl. 280-11.13
Hintermeier, Karl: *See—*
Von Brachel, Hanswilli; and Hintermeier, Karl,3,448,111.
Von Brachel, Hanswilli; and Hintermeier, Karl,3,463,821.
Hinton, Albert J.: *See—*
Connerat, Edwin B., 3,421,454.
Hinton, Everett H., Jr.: *See—*
Smith, Vernon C.; and Hinton, Everett H., Jr.,3,434,875.
Hinton, George F., to United States of America, Navy. Line integral magnetometer for measuring current flow through an electrolyte. 3,435,338, 3-25-69, Cl. 324-43.
Hinton, George F., to United States of America, Navy. Spinning line integral magnetometer for measuring a current or an electric field. 3,436,650, 4-1-69, Cl. 324-43.
Hinton, John L.: *See—*
Murray, George W., 3,433,330.
Hinton, Robert A., to Phillips Petroleum Company. Polymer recovery apparatus. 3,450,183, 6-17-69, Cl. 159-25.

Hinton, Robert A., to Phillips Petroleum Company. Process control in production of copolymers. 3,452,119, 6-24-69, Cl. 260-880.
Hinton, Robert A., to Phillips Petroleum Company. Olefin polymerization and recovery. 3,457,249, 7-22-69, Cl. 260-93.7
Hinton, Robert A.; and Norwood, Donald D., to Phillips Petroleum Company. Process for the polymerization of conjugated dienes. 3,461,109, 8-12-69, Cl. 260-83.7
Hintz, Elmer J.: *See—*
Heinz, Kenneth J.; and Hintz, Elmer J.,3,438,295.
Hintz, Harald; and Deleroi, Werner. Static inverter comprising a resonant circuit for generating a constant output voltage and frequency. 3,454,863, 7-8-69, Cl. 321-44.
Hintze, Norman. Polisher for high voltage electric lines. 3,430,279, 3-4-69, Cl. 15-23.
Hintze, Woldemar: *See—*
Herzog, Hermann; and Hintze, Woldemar,3,473,982.
Hintze, Woldemar, to Dynamit Nobel Aktiengesellschaft. Black powder charge. 3,424,087, 1-28-69, Cl. 102-39.
Hinxlage, Aloys, to Holstein & Kappert Maschinenfabrik 'Phonix' GmbH. Filling device for bottles or the like. 3,455,350, 7-15-69, Cl. 141-367.
Hinz, Martin W. Tree holding apparatus. 3,437,296, 4-8-69, Cl. 248-38.
Hinz, Walter W.; and Marandi, Ali, to Clemar Manufacturing Corporation. Combination shut-off, anti-backflow and vacuum relief valve. 3,454,032, 7-8-69, Cl. 137-218.
Hinzmann, Alfred, to Hauni-Werke, Korber & Co., KG. Apparatus for making holes in tobacco rods or the like. 3,483,873, 12-16-69, Cl. 131-23.
Hipope Limited: *See—*
Burke, Frederick, 3,484,006.
Hipp, James D.: *See—*
Floehr, Walter L.; Hipp, James D.; and May, Ronald W.,3,450,064.
Hipp, Richard D., Jr., to Minnesota Mining and Manufacturing Company. Slide and method of using. 3,419,987, 1-7-69, Cl. 40-152.
Hipp, Richard D., Jr., to Minnesota Mining and Manufacturing Company. Two piece mold for molding an undercut rim, and method of molding. 3,431,967, 3-11-69, Cl. 164-6.
Hippen, Ralph W. Fluid metering apparatus. 3,459,041, 8-5-69, Cl. 73-239.
Hippert, Pierre Raoul, 1/2 to Societe Anonyme: Les Ateliers Reunis Broyeurs Forplex. Dynamical selector device for crushers. 3,423,034, 1-21-69, Cl. 241-51.
Hippisley, George W., Jr., to Honeywell Inc. High-speed dual-rank flip-flop. 3,454,935, 7-8-69, Cl. 340-172.5
Hipple, George Mack: *See—*
Bauer, Werner Robert; and Hipple, George Mack,3,459,912.
Hipps, Robert A.: *See—*
Phillips, Jerome; and Hipps, Robert A.,3,457,441.
Hiraga, Teitaro; Wakabayasi, Syoichi; Towtari, Yoshishiga; and Inuyama, Tadao, to TDK Electronics Company, Limited. Manganese zinc ferrite containing calcium oxide and at least one of tantalum oxide and nisbium oxide. 3,481,876, 12-2-69, Cl. 252-62.63
Hirahara, Katsuji, to FMC Corporation. Removing scabs from fruit. 3,446,259, 5-27-69, Cl. 146-231.
Hirahara, Katsuji, to FMC Corporation. Fruit peeling method. 3,467,156, 9-16-69, Cl. 146-226.
Hirahara, Katsuji, to FMC Corporation. Method of processing cereal grain. 3,471,298, 10-7-69, Cl. 99-2.
Hirai, Koji: *See—*
Okada, Yoichi; Watanabe, Tsutomu; Hirai, Koji; and Fujii, Kazutoshi,3,484,351.
Hirai, Tadamasa: *See—*
Shohji, Senji; Kobayashi, Kazuo; Kuwata, Masanobu; Watanabe, Yutaka; and Hirai, Tadamasa,3,474,301.
Hirai, Taketsugu: *See—*
Fukuda, Masataro; Hirai, Taketsugu; Hino, Takashi; Shiramoto, Tomizo; Sawada, Isoo; and Yanagihara, Nobuyuki,3,443,999.
Hirai, Toshio; Moori, Takehiro; and Masago, Hiroshi, to Osaka Shosen Mitsui Senpaku Kabushiki Kaisha (Mitsui O.S.K. Lines Ltd.). Apparatus for transporting refrigerating containers and cooled containers used therefor. 3,440,834, 4-29-69, Cl. 62-409.
Hiraiwa, Masumi; Takahasi, Tadasi; and Fukuda, Wataru, to Sumitomo Chemical Company, Ltd. Process for the purification of amino acids. 3,459,650, 8-5-69, Cl. 204-180.
Hirakis, Emanuel C.: *See—*
Yenawine, David L.; and Hirakis, Emanuel C.,3,432,334.
Friedrich, Leonard A.; and Hirakis, Emanuel,3,446,606.
Hirano, Chikafusa: *See—*
Miura, Takeo; and Hirano, Chikafusa,3,437,800.
Hirano, Hiroshi; Masuda, Katsutada; Kawai, Kiyohisa; and Shimahara, Noboru, to Takeda Chemical Industries, Ltd. 2,4- and 2,6-dihalobenzyl methyl sulfoxides and sulfones. 3,465,044, 9-2-69, Cl. 260-607.
Hirano, Hiroshi; Masuda, Katsutada; Numata, Mitsuo; and Oka, Yoshikazu, to Takeda Chemical Industries, Ltd. Dialkyl-sulfoxides and dialkyl-sulfones. 3,455,956, 7-15-69, Cl. 260-345.1
Hirano, Hiroshi: *See—*
Iwasawa, Hiroshi; Isekil, Hajime; and Hirano, Hiroshi,3,433,011.
Hirano, Katsuaki: *See—*
Miyake, Shunji; and Hirano, Katsuaki,3,440,316.
Hiraoka, Michihiro: *See—*
Enya, Choshi; and Hiraoka, Michihiro,3,422,210.
Hiraoka, Yoichi. Keyboard percussion instrument. 3,443,469, 5-13-69, Cl. 84-410.
Hirata, Daniel K.: *See—*
Alana, James K.; and Hirata, Daniel K.,3,424,327.
Hirata, Eiichi: *See—*
Kurokawa, Harutoshi; Machida, Junzo; Nishikawa, Takao; Hirata, Eiichi; and Hisaki, Hisao,3,454,348.
Hirata, Minoru: *See—*
Ueda, Kenji; Horiguchi, Tsutomu; and Hirata, Minoru,3,458,413.
Hirata, Shigeru: *See—*
Nikai, Sei; Kojima, Yu; Mukai, Tsuneo; and Hirata, Shigeru,3,485,384.
Hirata, Shinichi, to Kabushiki Kaisha Ricoh. Tab programming control system by means of codes. 3,429,415, 2-25-69, Cl. 197-179.
Hirata, Shinsuke: *See—*
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo,3,474,109.
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo,3,487,051.
Hirata, Tadashi: *See—*
Matsui, Masanao; Yamada, Yasuhiro; Hirata, Tadashi; and Wakaki, Shigetoshi,3,450,705.
Matsui, Masano; Yamada, Yasuhiro; Uzu, Keigo; Hirata, Tadashi; and Wakaki, Shigetoshi,3,429,894.
Hirata, Takashi: *See—*
Watanabe, Tomoyoshi; Hishida, Yukio; and Hirata, Takashi,3,432,018.
Hirata, Toshio; Arai, Tashiro; and Yamaguchi, Kazuhide, to Tokyo Koku Keiki Kabushiki Kaisha. Apparatus for examining conditions of filaments and yarns running at high speed. 3,485,095, 12-23-69, Cl. 73-160.
Hirata, Yasubumi: *See—*
Murakami, Masuo; Takahashi, Kozo; Murase, Kiyoshi; and Hirata, Yasubumi,3,444,167.
Hiratsuka, Yoshio: *See—*
Ueshima, Kumao; Hiratsuka, Yoshio; Kuga, Toshiki; Yoshinaga, Hirokazu; and Hayashi, Yoichi,3,459,418.
Hirayama, Chikara; and Maniero, Daniel A., to Westinghouse Electric Corporation. Process for hydrogen cyanide and acetylene production in an arc heater having a rotating arc. 3,460,902, 8-12-69, Cl. 23-79.
Hirmann, Georg, to Polyprodukte AG. Friction gear. 3,424,012, 1-28-69, Cl. 74-25.
Hirn, Helmut; and Fromm, Eberhard. Power driven tamping and ramming device. 3,483,805, 12-16-69, Cl. 94-49.
Hirokawa, Yoichi, to Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.). Power source device for driving step motor of gyro. 3,437,899, 4-8-69, Cl. 318-138.
Hirons, John L. Inspection window for a sand blasting enclosure. 3,470,654, 10-7-69, Cl. 51-8.
Hirooka, Masaaki: *See—*
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Fujita, Toshimichi,3,478,002.
Nakaguchi, Kohei; Kawasumi, Shohachi; Takagi, Kazumi; Fukuba, Kobo; Hirooka, Masaaki; and Fujita, Toshimichi,3,472,824.
Hirose, Akira: *See—*
Ueno, Kisaburo; Hirose, Akira; and Shinozawa, Tetsuichi,3,482,957.
Hirose, Minoru; Kishioka, Taneji; and Shibanuma, Hajime, to Hamada Printing Press Mfg., Co., Ltd. Method for automatic sorting. 3,442,186, 5-6-69, Cl. 93-93.
Hirose, Toshio: *See—*
Kanbara, Shu; Takahashi, Akio; Nakano, Masayuki; and Hirose, Toshio,3,431,248.
Hirose, Yoshiyuki; and Hanaoka, Susumu, to Kabushiki Kaisha Daini Seikosha. Oil retainer for rotary shaft. 3,435,611, 4-1-69, Cl. 58-140.
Hirota, Hozumi, to Matsushita Electric Industrial Co., Ltd. Magnetic permeability material. 3,433,630, 3-18-69, Cl. 75-170.
Hirota, Hozumi: *See—*
Yanase, Akira; Tawara, Yoshio; Iga, Atsushi; and Hirota, Hozumi,3,424,687.
Hirota, Kashichi. Collapsible bottle-carrying container. 3,484,019, 12-16-69, Cl. 220-113.
Hirota, Sadao: *See—*
Hasegawa, Masaru; Hirota, Sadao; and Ogawa, Hiroshi,3,421,282.
Takahashi, Hidehiko; Kaga, Shinichiro; and Hirota, Sadao,3,466,364.
Hirota, Yusaku: *See—*
Nitta, Yoshihiro; Namekata, Masaya; Tomita, Eiichi; and Hirota, Yusaku,3,432,489.
Hirs, Gene. Method of filtering. 3,450,262, 6-17-69, Cl. 210-80.

Hirs, Gene. Method and apparatus for filtering with overlapped filter medium. 3,478,879, 11-18-69, Cl. 210-77.
Hirs, Gene. Resilient tubular valve. 3,479,002, 11-18-69, Cl. 251-5.
Hirs, Gene, to Hydromation Engineering Company. Filtration of organic materials. 3,486,621, 12-30-69, Cl. 210-68.
Hirs, Gene; MacKenzie, Kenneth W.; and Stein, Alfred H., to Hydromation Engineering Company. Electrostatic liquid filter. 3,468,778, 9-23-69, Cl. 204-180.
Hirs, Gene; and Stein, Alfred H., to Hydromation Engineering Company. Dust collector. 3,480,330, 11-25-69, Cl. 302-28.
Hirs, Gilles Gerardus, to Nederlandse Centrale Organisatie voor Toegepast- Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Bearing for radial and axial loads. 3,420,583, 1-7-69, Cl. 308-9.
Hirsbrunner, Hans G., to Texas Instruments, Incorporated. Electrothermal logic apparatus. 3,461,272, 8-12-69, Cl. 219-505.
Hirsch, Abraham Adler. Inflow equalizer for wells and elongated sieves. 3,450,207, 6-17-69, Cl. 166-233.
Hirsch, Abraham Adler. Combination sample-culture bottle for bacteriological tests. 3,474,003, 10-21-69, Cl. 195-127.
Hirsch, Charles J., to RCA Corporation. Converter for VHF-omnirange (VOR) receiver. 3,478,360, 11-11-69, Cl. 343-106.
Hirsch, Charles K. Strainer gasket for sanitary piping systems. 3,421,631, 1-14-69, Cl. 210-445.
Hirsch Company: *See—*
Ferdinand, Irwin J.; and Handler, Milton J., 3,479,975.
Hirsch, George. Time-internal switching device. 3,422,233, 1-14-69, Cl. 200-38.
Hirsch, Hans: *See—*
Sutherns, Edward Arthur; and Hirsch, Hans,3,420,669.
Hirsch, Horst Eberhard: *See—*
Bushell, Charles Herbert George; Hirsch, Horst Eberhard; and Lauer, Randolph Mathias,3,462,016.
Bushell, Charles Herbert George; and Hirsch, Horst Eberhard,3,462,017.
Bushell, Charles H. G.; and Hirsch, Horst E.,3,482,688.
Hirsch, James A., to Mallory, P. R., & Co. Inc. System using shift register, ring counter and logic circuitry for controlling operation in predetermined sequence. 3,450,995, 6-17-69, Cl. 328-72.
Hirsch, James A.; and Shelton, Robert F., to Mallory, P. R., & Co., Inc. Motor control system for a timer. 3,443,180, 5-6-69, Cl. 318-102.
Hirsch, James Arthur, to Mallory, P. R., & Co., Inc. Percentage on-off timing circuit. 3,486,044, 12-23-69, Cl. 307-293.
Hirsch, James Arthur; and Smith, Robert D., to Mallory, P. R., & Co., Inc. Electronic timing circuit. 3,461,322, 8-12-69, Cl. 307-293.
Hirsch, Le Roy D., to Westinghouse Electric Corporation. Logic circuit. 3,452,216, 6-24-69, Cl. 307-215.
Hirsch, Lothar: *See—*
Hornig, Lothar; Grosspietsch, Horst; Mau, Gunter; and Hirsch, Lothar,3,462,502.
Hornig, Lothar; Hirsch, Lothar; and Mau, Gunther,3,454,661.
Hornig, Lothar; Mau, Gunther; and Hirsch, Lothar,3,475,505.
Probst, Otto; Hornig, Lothar; and Hirsch, Lothar,3,441,597.
Probst, Otto; Horning, Lothar; Hirsch, Lothar; and Gosse, Helmut,3,445,509.
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of acetaldehyde. 3,439,044, 4-15-69, Cl. 260-604.
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing vinyl compounds. 3,470,230, 9-30-69, Cl. 260-465.3
Hirsch, Nathan A., to Albest Metal Stamping Corporation. Fastener for handbag strap. 3,466,711, 9-16-69, Cl. 24-95.
Hirsch, Paul I. Locking device. 3,461,512, 8-19-69, Cl. 24-126.
Hirsch, Paul; and Kerschgens, Johann, to Kerschgens, Johann. Electro plating device. 3,466,239, 9-9-69, Cl. 204-224.
Hirsch, Peter: *See—*
Bogert, Bruce P.; and Hirsch, Peter,3,428,893.
Hirsch, Ralph M.: *See—*
Howard, Bernard; and Hirsch, Ralph M.,3,439,118.
Hirsch, Robert L., to International Telephone and Telegraph Corporation. Pumping device. 3,443,742, 5-13-69, Cl. 230-69.
Hirsch, Robert L.; and Meeks, Gene A., to International Telephone and Telegraph Corporation. Ion gun improvements for operation in the micron pressure range and utilizing a diffuse discharge. 3,448,315, 6-3-69, Cl. 313-63.
Hirsch, Roger. Ticket vending apparatus. 3,464,302, 9-2-69, Cl. 83-203.
Hirsch, Sidney: *See—*
Catroppa, Frank A.; and Hirsch, Sidney,3,423,759.
Hirsch, Stephen S., to Monsanto Company. Polyimides prepared from 2,6-diminobenzo [1,2-D:5,4'-D] bisthiazole. 3,448,080, 6-3-69, Cl. 260-65.
Hirsch, Walter F. Hospital stretcher cart. 3,452,371, 7-1-69, Cl. 5-86.
Hirsch, Walter: *See—*
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter,3,457,797.
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter,3,466,854.
Hirschberg, Erwin E.; and Moore, Edward E., to Eclipse Fuel Engineering Co. Radiant spiral flame gas burner. 3,424,542, 1-28-69, Cl. 431-348.
Hirschberg, Hans Gunter: *See—*
Hanny, Jost; and Hirschberg, Hans Gunter,3,427,816.
Hirschberg, Kenneth A., to United States of America, Army, mesne. Transmitting seismic sensor system. 3,480,942, 11-25-69, Cl. 340-261.
Hirschberg, Kenneth A.; and Boren, John E., to United States of America, Army, mesne. Airborne acoustic ground fire detector. 3,445,807, 5-20-69, Cl. 340-15.
Hirschhorn, Harry J.; and Rachford, John G., to Midwesco-Enterprise, Inc. Railroad switch heater. 3,433,943, 3-18-69, Cl. 246-428.
Hirschland, Henry E.: *See—*
Oldshue, James Y.; and Hirschland, Henry E.,3,439,904.
Hirschler, Daniel A., Jr.: *See—*
Reitmeier, Ronald E.; Hirschler, Daniel A., Jr.; Lamb, Frances W.; and Stephens, Ruth E.,3,428,573.
Stephens, Ruth E.; Hirschler, Daniel A., Jr.; and Lamb, Frances W.,3,433,581.
Hirschler, Elvin F. Safety bottle cap. 3,426,930, 2-11-69, Cl. 215-9.
Hirschmann, Ralph F.; and Mrozik, Helmut, to Merck & Co., Inc. 2-Oximino-3-keto steroids of androstane series. 3,462,464, 8-19-69, Cl. 260-397.4
Hirschmann, Ralph F.; and Patchett, Arthur A., to Merck & Co., Inc.11-Desoxy-16α, 17α-dihydroxy-20-oxo-4-pregneno- and 4,6-pregnadieno-pyrazoles and 16α, 17α- acetals and ketals thereof. 3,475,418, 10-28-69, Cl. 260-239.5
Hirschmann, Ralph F.: *See—*
Sarett, Lewis H.; Strachan, Robert G.; and Hirschmann, Ralph F.,3,427,300.
Hirschmann, Robert P.: *See—*
Mariani, Thomas L.; and Hirschmann, Robert P.,3,455,841.
Hirschowitz, Abram S. Electric heater plug for water systems. 3,441,711, 4-29-69, Cl. 219-328.
Hirscler, Daniel A., Jr.: *See—*
Stephens, Ruth E.; Hirscler, Daniel A., Jr.; and Lamb, Frances W.,3,447,893.
Hirsh Company: *See—*
Ferdinand, Irwin J.; and Handler, Milton E., 3,479,974.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., 3,480,155.
Hirsh, S. A., Manufacturing Company: *See—*
Ferdinand, Irwin J.; and Lopatka, Dale R., 3,438,344.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., 3,438,688.
Hirsh, William, to Aluminum Company of America. Production of crystalline zeolites. 3,425,800, 2-4-69, Cl. 23-113.
Hirshfeld, Julian J.: *See—*
Hartgrove, Earl H., Jr.; Hirshfeld, Julian J.; and Reuben, Bertie J.,3,484,182.
Hirshfeld, Julian J., to Monsanto Company. Extraction process and product. 3,429,104, 2-25-69, Cl. 55-74.
Hirshfeld, Julian J.; Hacklander, Egon H.; and Angevine, William H., Jr., to Monsanto Company. Aqueous furfural vapor dye fixing. 3,420,616, 1-7-69, Cl. 8-55.
Hirshfeld, Julian J.; and Reuben, Bertie Joseph, to Monsanto Company. Process for whitening acrylic fibers. 3,462,238, 8-19-69, Cl. 8-110.
Reuben, Bertie J.; Kay, Harold D.; Hirshfeld, Julian J.; and Hartgrove, Earl H., Jr.,3,462,297.
Yao, David C. T.; Hirshfeld, Julian J.; and Reuben, Bertie J.,3,429,647.
Hirshfield, Edward: *See—*
Allen, James S.; and Hirshfield, Edward,3,435,346.
Hirshfield, Edward; Mizuno, Edward; and Trouard, Robert L., to United States of America, Army, mesne. Electronically variable radio frequency attenuator. 3,431,506, 3-4-69, Cl. 330-22.
Hirst, Archie John, to Metalstik Limited. Vehicle suspension systems. 3,433,493, 3-18-69, Cl. 280-6.
Hirst, Archie John, to Metalastik Limited. Fluid springs. 3,475,015, 10-28-69, Cl. 267-65.
Hirst, Ian Johnson, to International Standard Electric Corporation. Terminating network for a negative feedback amplifier. 3,423,690, 1-21-69, Cl. 330-109.
Hirt, John H. Apparatus for producing gases of predetermined characteristics. 3,479,166, 11-18-69, Cl. 48-196.
Hirt, Thomas J.; and Marynowski, Chester W., to Northern Natural Gas Company. Method and apparatus for heating gases to high temperatures. 3,465,115, 9-2-69, Cl. 219-75.
Hirt, Walter, to Schmidt, Alfred, Ing. Cleaning device. 3,457,574, 7-29-69, Cl. 15-21.
Hirt, Walter, to Schmidt, Alfred, Ing. Vehicle attachment and method of attaching the latter to a vehicle. 3,483,641, 12-16-69, Cl. 37-44.

Hirtenberger Patronen-Zundhutchen- und Metallwarenfabrik Aktiengesellschaft: *See—*
Vercauteren, Marcel, 3,449,180.
Hirtensteiner, Walter Earl. Apparatus for pulping segmental produce. 3,429,348, 2-25-69, Cl. 146-76.
Hirth, Friedrich: *See—*
Klinkmuller, Horst; and Hirth, Friedrich,3,474,545.
Hirtle, Kenneth S.: *See—*
Erhardt, John E.; Hirtle, Kenneth S.; and Osterman, Harry F.,3,425,533.
Hiruma, Kenji, to Kabushiki Kaisha Ricoh. Porro prism viewfinder combined with an exposure meter. 3,421,407, 1-14-69, Cl. 88-1.5
Hisada, Tadashi: *See—*
Kawai, Kaiji; Hisada, Tadashi; and Ishimoto, Nobuo,3,425,820.
Hisaki, Hisao: *See—*
Kurokawa, Harutoshi; Machida, Junzo; Nishikawa, Takao; Hirata, Eiichi; and Hisaki, Hisao,3,454,348.
Hisamoto, Iwao: *See—*
Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Shoshin; Kato, Takahisa; and Nagai, Masayuki,3,457,247.
Shingu, Haruo; Hisazumi, Makoto; and Hisamoto, Iwao,3,446,858.
Hisao Sato Nishigahara: *See—*
Okamura, Hiroshi, 3,441,470.
Hisasue, Michio: *See—*
Ukihashi, Hiroshi; and Hisasue, Michio,3,459,818.
Hisatomi, Yoshihiro: *See—*
Kosaka, Yujiro; Hayata, Masaaki; and Hisatomi, Yoshihiro,3,448,057.
Hisatsune, Tadashi: *See—*
Matsumoto, Yutaro; Hisatsune, Tadashi; Sasaki, Tsutomu; Mitsudo, Fumiaki; and Yamauchi, Yasuhiro,3,467,723.
Hisazumi, Makoto: *See—*
Shingu, Haruo; Hisazumi, Makoto; and Hisamoto, Iwao,3,446,858.
Hiscox, Harold C.: *See—*
Taylor, John W., Jr.; Gobl, Gerhard E.; and Hiscox, Harold C.,3,432,777.
Hisey, Richard M.; and Kyle, Joseph H., to Armstrong Cork Company. Radiant heating apparatus. 3,471,682, 10-7-69, Cl. 219-388.
Hishida, Yukio: *See—*
Watanabe, Tomoyoshi; Hishida, Yukio; and Hirata, Takashi,3,432,018.
Hishinuma, Yukio: *See—*
Tamura, Zensuke; and Hishinuma, Yukio,3,473,297.
Tamura, Zensuke; and Hishinuma, Yukio,3,486,852.
Hispano Suiza (Suisse) S.A.: *See—*
Durler, Jacques; and Zoller, Frederic, 3,422,614.
Hiszpanski, Jan, to Zaklady Mechaniki Precyzyjnei- Przedsiebiorstwo Panstwowe Gdansk-Oliva. Submarine navigation device for a self-dependent diver. 3,475,957, 11-4-69, Cl. 73-180.
Hitachi Cable, Ltd.: *See—*
Ichikawa, Hiroshi; Kawanishi, Rokuro; and Ouchi, Yutaka, 3,485,928.
Hitachi Chemical Company, Ltd.: *See—*
Abe, Shokichi; Kakefude, Koichi; and Honjo, Mitsuo, 3,436,440.
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo, 3,428,555.
Nakagawa, Takehisa; and Asanuma, Rikio, 3,429,762.
Tanaka, Hisao; and Nishikawa, Isamu, 3,441,632.
Tanno, Takeshi; Shibuya, Ikutoshi; and Abo, Masahiro, 3,446,872.
Hitachi Electronics Company, Ltd.: *See—*
Abe, Ryoichi, 3,436,536.
Abe, Ryoichi, 3,443,082.
Hitachi Kasei Kogyo Kabushiki Kaisha: *See—*
Koga, Wataru; Abo, Masahiro; Yasuoka, Yoshio; Nozaki, Michio; and Nomaguchi, Kanemasa, 3,444,112.
Hitachi, Limited: *See—*
Akahori, Hiroshi, 3,448,262.
Akahori, Hiroshi, 3,452,194.
Akatsu, Mitsuharu, 3,428,853.
Douta, Kikuo; Matumaru, Haruo; and Nishimura, Takeo, 3,430,334.
Emoto, Masayuki; and Nakano, Masahiro, 3,459,674.
Fujie, Kunio, 3,473,603.
Fujiwara, Kaisaku, 3,436,003.
Goto, Tatsuo; and Nishimura, Takashi, 3,441,831.
Hayashi, Masahiro; and Goto, Shinkichi, 3,460,423.
Honda, Juichi; Matsumura, Kimio; Yoshida, Sadao; and Mori, Ryutaro, 3,428,407.
Honobe, Makoto, 3,454,394.
Ichihara, Kiyoshi; and Kitamura, Junzo, 3,469,271.
Imaizumi, Ichiro, 3,449,643.
Jin, Minejiro; and Maruyama, Yugo, 3,425,516.
Kajiwara, Toshiyuki, 3,475,935.
Kamoi, Akira; and Ejiri, Masakazu, 3,484,780.
Kanda, Yozo; and Kanazawa, Yasunori, 3,460,005.
Kashima, Yoshitake, 3,466,584.
Katagiri, Shinjiro; and Minamikawa, Yoshihisa, 3,476,972.
Kimura, Hirokazu; Tamura, Hifumi; Maki, Michiyoshi; and Higuchi, Hisayuki, 3,474,245.
Kimura, Ichiro; and Nagata, Takeo, 3,468,332.
Kimura, Jun; Kudoh, Hiroshi; and Ikeda, Toshimichi, 3,473,632.
Komatsubara, Kiichi, 3,469,208.
Komatsubara, Kiichi, 3,473,385.
Majima, Hideyasu, 3,444,530.
Migitaka, Masatoshi, 3,458,703.
Mikoshiba, Tomoyoshi; Suzuki, Yasuo; and Ishizawa, Shingo, 3,476,674.
Miwa, Ichiro; and Ikeda, Takahide, 3,471,793.
Moroshima, Heiji, 3,444,443.
Nagata, Minoru, 3,477,031.
Nishimura, Takeo, 3,423,821.
Noda, Tamotsu; and Nisiwaki, Koji, 3,475,604.
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; Akiyama, Mitsuo; and Kikuchi, Ukichi, 3,420,592.
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; and Odagaki, Fukuichi, 3,460,353.
Oguchi, Hakuro; and Iwasaki, Kenjiro, 3,473,458.
Ohashi, Shin-ichi; and Takagi, Toshijiro, 3,469,173.
Ohashi, Shin-Ichi; Takagi, Toshijiro; and Abe, Zenmon, 3,474,307.
Okano, Hiroshi, 3,469,098.
Omura, Itiro, 3,476,968.
Ono, Minoru; Hujita, Minoru; Momoi, Toshimitu; and Homma, Isamu, 3,474,310.
Sakamoto, Masakatsu; and Seki, Hidehiko, 3,449,013.
Sasaki, Ryoichi; and Hataya, Humio, 3,476,556.
Sato, Takesi, 3,461,652.
Shimazu, Mitsuyoshi, 3,477,038.
Shirasu, Hirotoshi; Akiyama, Tadahiko; and Arai, Yasumichi, 3,445,605.
Shohji, Senji; Kobayashi, Kazuo; Kuwata, Masanobu; Watanabe, Yutaka; and Hirai, Tadamasa, 3,474,301.
Suzuki, Toshitaka; and Sugawara, Toru, 3,447,812.
Suzuki, Toshitaka; and Sugawara, Toru, 3,448,389.
Takemura, Katsumi, 3,426,186.
Takeyasu, Kiyoo; and Numakura, Toshio, 3,461,367.
Tamura, Hifumi; and Kimura, Hirokazu, 3,467,057.
Tamura, Zensuke; and Hishinuma, Yukio, 3,473,297.
Tamura, Zensuke; and Hishinuma, Yukio, 3,486,852.
Taniguchi, Kenji; and Oya, Yuichiro, 3,450,896.
Toki, Hisashi; and Agatsuma, Takashi, 3,479,736.
Tokuyama, Takashi; and Uehara, Keijiro, 3,445,280.
Tonooka, Hidenori; and Okano, Kinpei, 3,433,542.
Tuchi, Shoji; and Takagi, Takeshi, 3,484,313.
Ushikubo, Tokuzi; and Kikuchi, Iwao, 3,444,424.
Watanabe, Akinori; and Ando, Takeki, 3,460,014.
Yamamoto, Setsuwo, 3,439,276.
Yanai, Hisayoshi; Kodera, Hiroshi; and Migitaka, Masatoshi, 3,476,942.
Yasuda, Kazuo; and Uchino, Koichi, 3,475,099.
Yoshida, Hisashi; Sakamoto, Yuzaburo; and Hosaka, Takeshi, 3,428,872.
Yuminaka, Takeo; and Iwasaka, Tatsuo, 3,463,991.
Hitachi Shipbuilding and Engineering Co., Ltd.: *See—*
Nakajima, Yasuyoshi, 3,464,210.
Hitachi Zosen Kabushiki Kaisha: *See—*
Nakai, Tsuneo; Minehisa, Setsuji; Fuchino, Yoshio; and Tsuchihira, Hisao, 3,446,931.
Nakanishi, Tetsuichiro, 3,434,926.
Hitachi Zosen Kabushiki Kaisha (Hitachi Ship-building & Engineering Co. Ltd.): *See—*
Morita, Toshimitsu; Taki, Masuo; Kaneda, Maomi; and Kohno, Sakae, 3,459,020.
Hitch, Robert A., to Pullman Incorporated. Foam structural element. 3,472,728, 10-14-69, Cl. 161-69.
Hitch, Thomas R.: *See—*
Balunas, Vincent J., Jr.; and Hitch, Thomas R.,3,433,048.
Hitch, Thomas R., to Bliss, E. W., Company. Self-contained die cushion with air saver. 3,456,938, 7-22-69, Cl. 267-1.
Hitchcock, Allen M.; and Thompson, Robert W., to Xerox Corporation. Xerographic reproducing apparatus. 3,446,554, 5-27-69, Cl. 355-75.
Hitchcock, Charles W. Water keg icer. 3,464,228, 9-2-69, Cl. 62-352.
Hitchcock, Keith Norman; Thomas, Geoffrey Bernard; and Watson, Henry, to English Electric Company Limited, The. Condensing steam turbine plant. 3,447,320, 6-3-69, Cl. 60-95.
Hitchcock, Richard E.: *See—*
Griswold, Owen H.; and Hitchcock, Richard E.,3,477,691.
Hitchcock, Robert D., to United States of America, Navy. Movable substrate method of vaporizing and depositing electrode material layers on the substrate. 3,447,961, 6-3-69, Cl. 117-212.

Hitchens, Robert George: *See—*
Cook, Alan Hugh; Rowley, William Richard Charlton; Stanley, Victor William; Wilson, David Charles; and Hitchens, Robert George,3,486,824.
Hitchings, George H.; and Falco, Elvira A., to Burroughs Wellcome & Co., (U.S.A.) Inc. Pyrazolo-(3,4-d) pyrimidines. 3,474,098, 10-21-69, Cl. 260-256.5
Hitco: *See—*
Gutzeit, Carlos L., 3,479,150.
Gutzeit, Carlos L., 3,479,151.
Hatch, Donald M., 3,449,189.
Hatch, Donald Monroe; and Wood, Walter W., 3,436,292.
Hite, Robert J., to United States of America, Interior. Process for extracting aluminum values from oil shale. 3,481,695, 12-2-69, Cl. 23-52.
Hiteshue, Raymond W.: *See—*
Friedman, Sam; and Hiteshue, Raymond W.,3,429,679.
Hitre, Louis. Drum setline. 3,486,267, 12-30-69, Cl. 43-54.5
Hitsch, Kurt W.: *See—*
Kearney, Terry R.; and Hitsch, Kurt W.,3,471,094.
Hitt, Otis D.; and Short, R Stanford, to Aro Corporation, The. Two-stage control throttle mechanism. 3,476,147, 11-4-69, Cl. 137-614.14
Hittel, George T., to Dow Chemical Company, The. Method of removing adherent materials. 3,457,108, 7-22-69, Cl. 134-22.
Hittel, George T.; and Karpovich, John, to Dow Chemical Company, The. Method and apparatus for cleaning chips and the like. 3,454,428, 7-8-69, Cl. 134-25.
Hittel, Lorenz A.: *See—*
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,444,525.
Barton, Richard; Hittel, Lorenz A.; Rakoczi, Laszlo L.; and Wiener, Jerome B.,3,469,241.
Belt, John E.; Hittel, Lorenz A.; and Rakoczi, Laszlo L.,3,480,916.
Broderick, William J.; Frasier, Carlton R.; Hittel, Lorenz A.; Hope, George R., Jr.; Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,483,520.
Frasier, Carlton R.; Hittel, Lorenz A.; Hudson, James R.; Rakoczi, Laszlo L.; Sansbury, David L.; and Wiener, Jerome B.,3,483,521.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,487,373.
Hittel, Robert. Crypt form. 3,433,451, 3-18-69, Cl. 249-183.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst, to Wacker-Chemie G.m.b.H. Room temperature vulcanizing silicone rubber stock. 3,464,951, 9-2-69, Cl. 260-37.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst, to Wacker-Chemie G.m.b.H. Room-temperature vulcanizable silicone rubber stocks. 3,474,064, 10-21-69, Cl. 260-37.
Hittmair, Paul; Wohlfarth, Ernst; Nitsche, Siegfried; and Wick, Manfred, to Wacker-Chemie G.m.b.H. Room temperature vulcanizable organopolysiloxane elastomer stocks. 3,432,463, 3-11-69, Cl. 260-46.5
Hittman Associates, Inc.: *See—*
Frank, Louis; and Barr, Harold N., 3,432,295.
Mac Phee, John, 3,466,225.
Hityashvut Shitufit Be'Eravon Mugbal:*See—*
Holzman, Suzana; and Milwidsky, Ben-Zion, 3,422,138.
Hitz, Eugen: *See—*
Brugger, Werner; and Hitz, Eugen,3,457,356.
Hitz, Hans Rudolf: *See—*
Martin, Henry; Duerr, Dieter; Hitz, Hans Rudolf; and von Orelli, Marcus,3,483,296.
Hitz, Hans-Rudolf: *See—*
Nikles, Erwin; and Hitz, Hans-Rudolf,3,459,771.
Hitzelberger, Erwin, to Daimler-Benz Aktiengesellschaft. Motor vehicle seat. 3,476,435, 11-4-69, Cl. 296-65.
Hitzemann, Gerhard: *See—*
Tillmann, Peter; Kulling, Achim; and Hitzemann, Gerhard,3,479,148.
Hitzeroth, Franklin C., to McGraw-Edison Company. Bail handle pivot mount. 3,464,586, 9-2-69, Cl. 220-94.
Hitzeroth, Franklin C.; and Walitzer, David B., to McGraw-Edison Company. Interference fit case construction. 3,482,727, 12-9-69, Cl. 220-4.
Hivert, Andre: *See—*
Galmiche, Philippe Marie; and Hivert, Andre,3,449,115.
Hix, Alfred G. O. Truck door latching mechanism. 3,467,426, 9-16-69, Cl. 292-218.
Hixon, Philip E.; Fleisher, Marvin B.; and Braithwaite, Bertrand G., to Itek Corporation. Apparatus for processing photographic material. 3,472,143, 10-14-69, Cl. 95-89.
Hixon, Philip E.: *See—*
Fleisher, Marvin B.; and Hixon, Philip E.,3,422,741.
Hixson, Wilbur H.; Jording, Clifford H.; and Wahl, John F., to Wahl Clipper Corporation. Vacuum control for electric hair clipper having an associated vacuum system. 3,440,681, 4-29-69, Cl. 15-339.
Hiyamuda, Shota: *See—*
Shimamoto, Takatsugu; Hiyamuda, Shota; Fujita, Shigeru; Nozoe, Akihiko; Yamaguchi, Hiromi; and Eguchi, Jutaro,3,423,910.
Hjelte, Nils Sixten; and Lindblom, Ragnvald Erik, to Aktiebolaget Pharmacia. Preparation of 5-hydroxy-5; aminoalkyl-10,11-dihydro-5H-dibenzo-[a,d]-cyclo-heptenes. 3,429,921, 2-25-69, Cl. 260-570.8
Hjermstad, Erling T., to Penick & Ford, Limited. Process for etherification and gelatinization of starch. 3,438,913, 4-15-69, Cl. 260-17.3
Hjermstad, Erling T.; Martin, Larry C.; and Kirby, Kenneth W., to Penick & Ford, Limited. Monofunctionally substituted hydrophobic starch and film-forming dispersions prepared therefrom. 3,462,283, 8-19-69, Cl. 106-213.
Hjort, Jorgen; and Hach, Vladimir, to MacMillan Bloedel Limited. Purficiation of semicarbazones of 3β-acyloxy-Δ^5- androstene-17-ones. 3,485,855, 12-23-69, Cl. 260-397.5
Hladovec, Josef: *See—*
Mansfeld, Viktor; Hladovec, Josef; and Horakova, Zdenka,3,461,205.
Hlavka, Joseph John; and Bitha, Panayota, to American Cyanamid Company. Process of preparing 4-dedimethylaminotetracyclines. 3,455,800, 7-15-69, Cl. 204-158.
HLF Corporation: *See—*
Orwin, Robert J.; and Stanford, Robert C., 3,460,041.
H.L.F. Engineering Developments Ltd.: *See—*
Lee, George; and Holt, Frank, 3,486,390.
Hlinka, Charles F., to Tenex Corporation. Machine for continuously forming an elongated cleated runner of plastic material. 3,430,291, 3-4-69, Cl. 18-10.
Hlinka, Edward A., to Dempster Industries, Inc. Submersible multistage diffuser type pump. 3,477,384, 11-11-69, Cl. 103-102.
Hlinsky, Emil J., to Westinghouse Air Brake Company. Jogging device for mining heads of continuous miner. 3,472,557, 10-14-69, Cl. 299-59.
Hloch, Albert: *See—*
Donges, Ernst; Kohlhaas, Rudolf; Hloch, Albert; and Medic, Nikolaj,3,420,622.
Hloch, Albert; Kohlhaas, Rudolf; Medic, Nikolay; and Neises, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Hardener for water glass cements. 3,445,257, 5-20-69, Cl. 106-84.
Ho, Er-Chun, to Hughes Aircraft Company. Crystal filter array. 3,426,300, 2-4-69, Cl. 333-72.
Ho, Shih-Ming, to Westinghouse Electric Corporation. Electrodes for magnetohydrodynamic devices. 3,462,621, 8-19-69, Cl. 310-11.
Ho, Shih-Ming: *See—*
Grekila, Richard B.; Ho, Shih-Ming; Knochel, William J.; and Lin, Francis C. M.,3,469,729.
Hoad, John G., & Associates, Inc.: *See—*
Hoad, John G., 3,445,007.
Hoad, John G., 3,445,550.
Hoad, John G., to Hoad, John G., & Associates, Inc. Material handling apparatus. 3,445,007, 5-20-69, Cl. 214-10.
Hoad, John G., to Hoad, John G., & Associates, Inc. Method of making cement. 3,445,550, 5-20-69, Cl. 263-53.
Hoag, Charles Rex. Muzzle patch for firearms. 3,455,047, 7-15-69, Cl. 42-1.
Hoag, Roderick William. Tubular container for granular material. 3,473,650, 10-21-69, Cl. 206-56.
Hoag, Roderick W. Method and machine for making and filling tubular containers. 3,452,505, 7-1-69, Cl. 53-29.
Hoag, Yates M., to General Electric Company. Drive mechanism for tape recorder. 3,429,579, 2-25-69, Cl. 274-4.
Hoagland, Lawrence C., to Dynatech Corporation. Specimen heating and rotating system. 3,443,049, 5-6-69, Cl. 219-10.43
Hoaglund, Paul A., to International Computer Appliances Corp., mesne. Add-a-drawer filing cabinet. 3,433,547, 3-18-69, Cl. 312-111.
Hoard, Charles T., to United States of America, Atomic Energy Commission. Internal retaining ring. 3,446,522, 5-27-69, Cl. 287-52.
Hoard, John Roberts; and Lakahani, Husain Gulamhusain, to American Standard, Inc. Toilet structure. 3,484,873, 12-23-69, Cl. 4-69.
Hoard, Norman F.: *See—*
Harney, Frank L., Jr.; and Hoard, Norman F.,3,427,500.
Hoare, Martin John: *See—*
Hayward, Brian Phillip; Mc Ewan, Keith John Bruce; Foster, Robert Thomas; and Hoare, Martin John,3,441,448.
Hobam, Inc.: *See—*
Schaller, Harold E., 3,477,674.
Schaller, Harold E., 3,486,649.
Hobart Brothers Company: *See—*
Dane, Paul E., 3,478,552.
Hobart, Jack: *See—*
Henry, Nelson R.; and Hobart, Jack,3,465,979.
Hobart Manufacturing Company, The: *See—*
Allen, Kenneth C., 3,439,760.
Allen, Kenneth C.; and Vauk, Helmut A., 3,447,992.
Allen, Kenneth C., 3,461,985.

Athey, Stuart E.; and Allen, Charles M., 3,456,180.
Geiger, Paul B., 3,472,573.
Geiger, Russell C.; Geiger, Paul B.; and Meeker, David A., 3,430,861.
Larsh, Everett P., 3,482,068.
Meeker, David A.; Grunewald, Ernst; and Vallor, Ben J., 3,465,761.
Tiby, Gerard A., 3,456,659.
Waters, Barrett Bradford, 3,461,934.

Hobart, Paul W.; and Schopp, Lloyd W., to Goodyear Aerospace Corporation. Adjustable delay timer for explosive device. 3,453,959, 7-8-69, Cl. 102-49.6

Hobbs, Arthur Frederick, to Humphrey & Glasgow Limited. Suspension means. 3,463,468, 8-26-69, Cl. 263-33.

Hobbs, Charles C., Jr.; and MacLean, Alexander F., to Celanese Corporation. Transaddition reaction between an olefin and a saturated aliphatic monocarboxylic acid. 3,470,219, 9-30-69, Cl. 260-413.

Hobbs, Charles F., to United States of America, Air Force. Ternary error corrector-error detector method and system. 3,453,593, 7-1-69, Cl. 340-146.1

Hobbs, Donald C., to Pfizer, Chas., & Co., Inc. Lower alkanoyl esters of polymyxin antibiotics. 3,450,687, 6-17-69, Cl. 260-112.5

Hobbs, James C., II; Jones, Alan Richardson; and Schultz, Eugene L., said Jones and said Schultz assors to American Hospital Supply Corporation. Plural source fluid dispenser with interconnected discharge volume varying means. 3,446,400, 5-27-69, Cl. 222-134.

Hobbs, Leonard James, to Morganite Carbon Limited. Disc brake actuating piston adjusting means. 3,421,604, 1-14-69, Cl. 188-73.

Hobbs, Norman L., to American Home Products Corporation. Cap washing machine. 3,435,835, 4-1-69, Cl. 134-108.

Hobbs, Walter B.: *See—*
Litt, Peter S., 3,445,000.

Hobbs, William A. Adjustable radius attachment. 3,434,386, 3-25-69, Cl. 90-24.3

Hobbs, William Edward: *See—*
Clark, William James Rowley; and Hobbs, William Edward,3,471,634.

Hobbs, William Edward; and Clark, William James Rowley, to Marconi Company Limited, The. Colour television systems including a high resolution luminance camera and a plurality of lower resolution colour cameras. 3,449,509, 6-10-69, Cl. 178-5.2

Hobbs, William E., to Great Lakes Chemical Corporation. Stabilized 2,4-dibromophenol and its production. 3,454,654, 7-8-69, Cl. 260-623.

Hobday, Stephen W. Apparatus for graphical analysis. 3,460,257, 8-12-69, Cl. 33-1.

Hobe, Harold E., to United States Steel Corporation. Scrap charging machine. 3,443,701, 5-13-69, Cl. 214-18.

Hobel, Daniel: *See—*
Sleven, Marvin; Kleiman, Joseph; and Hobel, Daniel,3,479,648.

Hobema-Maschinenfabrik: *See—*
Fehst, Jurgen; Kurten, Wilhelm; and Schettlinger, Herbert, 3,451,521.

Hoberg, George Gilbert: *See—*
Chedaker, Joseph; Hoberg, George Gilbert; and Sands, Eugene Arthur,3,479,659.

Hobrough, Gilbert L., to Itek Corporation. Scanning raster generator. 3,429,990, 2-25-69, Cl. 178-6.8

Hobrough, Gilbert L., to Itek Corporation. Photographic image registration. 3,432,674, 3-11-69, Cl. 250-220.

Hobrough, Gilbert L., to Itek Corporation. Automatic focusing system for a flying spot scanner. 3,450,833, 6-17-69, Cl. 178-7.2

Hobson Bros. Inc.: *See—*
Leitmann, William J., 3,486,162.

Hobson, Charles F., Jr., to General Electric Company. Parallel assisted circuit interrupting device. 3,436,700, 4-1-69, Cl. 335-201.

Hobson, Charles M., Jr., to Garlock Inc. Plastic resin lined butterfly valve with improved sealing arrangements. 3,447,780, 6-3-69, Cl. 251-306.

Hobson, David; and Hattersley, Derek, to Davy and United Engineering Company Limited. Plate side trimming shear. 3,469,483, 9-30-69, Cl. 83-216.

Hobson, H. M., Limited: *See—*
Marshall, David; and Lloyd, Arthur Leslie, 3,449,909.
Mills, John Penrose, 3,427,762.
Mills, John Penrose, 3,479,773.
Westbury, Roy; and Maltby, Peter John, 3,461,778.

Hobson, James W., to Oakland Community College. Science furniture. 3,451,738, 6-24-69, Cl. 312-209.

Hobson, Norman L.: *See—*
Dischert, Robert A.; and Hobson, Norman L.,3,445,590.

Hobson, Philip H. Adjustable weight sinker for fishing lines. 3,461,597, 8-19-69, Cl. 43-43.14

Hobson, Robert H. Case cutter. 3,430,339, 3-4-69, Cl. 30-2.

Hobush, Albert P.: *See—*
Kirkpatrick, Oscar H.; and Hobush, Albert P.,3,442,783.

Hoch, Glenn M. Self-heating container. 3,430,623, 3-4-69, Cl. 126-262.

Hoch, Manfried L.; Zitko, Ronald F.; and Wilkins, James D., to International Harvester Company. Knife grinder. 3,427,753, 2-18-69, Cl. 51-94.

Hoch, Norman F., to Beloit Corporation. Pulper. 3,455,516, 7-15-69, Cl. 241-46.17

Hoch, Paul E.; and Stratton, George B., to Hooker Chemical Corporation. Polymer recovery process. 3,442,884, 5-6-69, Cl. 260-94.7

Hoch, Samuel, to Tenneco Chemicals, Inc. Stabilized stannous carboxylates. 3,426,051, 2-4-69, Cl. 260-429.7

Hochberg, David Louis, to Pitney-Bowes, Inc. Protected stencil aperture card. 3,421,241, 1-14-69, Cl. 40-158.

Hochberg, David Louis, to Pitney-Bowes, Inc. Thermographic reproduction process using-stencil laminate material with a layer of pressure spreadable and infrared reflective material. 3,454,765, 7-8-69, Cl. 250-65.

Hochberg, Frederick: *See—*
Cheroff, George; and Hochberg, Frederick,3,445,924.

Hochberg, Jerome: *See—*
Craven, James M.; Dye, John I.; and Hochberg, Jerome,3,481,766.

Hochberg, Jerome, du Pont de Nemours, E. I., and Company. Process for making synthetic suede sheet material. 3,429,727, 2-25-69, Cl. 117-11.

Hochfeld, Henry J., to American Fiber-Velope Mfg., Co. Apparatus for bending accordion pleated strips. 3,434,400, 3-25-69, Cl. 93-84.

Hochgesand, Gerhard L., to Metallgesellschaft Aktiengesellschaft, and Linde Aktiengesellschaft. Absorption of CO_2 employing separately cooled absorbent streams. 3,453,835, 7-8-69, Cl. 62-17.

Hochgraf, Lester: *See—*
Forde, John P.; and Hochgraf, Lester,3,458,661.

Hochgraf, Lester; and Rice, Stephen O., to Bell Telephone Laboratories, Incorporated. Carrier system slope regulator. 3,423,535, 1-21-69, Cl. 179-15.

Hochhauser, Irving. Process and apparatus for curing material by induction heating. 3,479,419, 11-18-69, Cl. 264-25.

Hochman, Jack M.; and Loboda, Wesley J., to Esso Research and Engineering Company. Fluid flow distributor. 3,479,146, 11-18-69, Cl. 23-288.

Hochmuth, Frank W.; and Freiday, Jay H., to Combustion Engineering, Inc. Semirigid tube supporting tie. 3,434,531, 3-25-69, Cl. 165-67.

Hochner, Walter L., to Kaumagraph Company. Decorated thermosetting plastic article and method of producing same. 3,421,967, 1-14-69, Cl. 161-5.

Hochrath, Hans, to Siemens Aktiengesellschaft. Circuit arrangement for the regulation of dynamics of electrical signals. 3,439,280, 4-15-69, Cl. 328-142.

Hochreuter, Richard; and Keller, Robert Christian, to Sandoz Ltd. Melamine derivatives and process for their production. 3,466,278, 9-9-69, Cl. 260-249.6

Hochstein, Alexander E., to Strong Electric Corporation, The. Power circuit for gas filled arc lamp. 3,448,336, 6-3-69, Cl. 315-176.

Hochstein, Roland: *See—*
Kuppenbender, Heinz; and Hochstein, Roland,3,441,344.

Hochstrasser, Elisabeth: *See—*
Hochstrasser, Robert, deceased; Hochstrasser, Elisabeth; and Hochstrasser, Jurgen, administrators,3,430,717.

Hochstrasser, Jurgen, administrators: *See—*
Hochstrasser, Robert, deceased; Hochstrasser, Elisabeth; and Hochstrasser, Jurgen, administrators,3,430,717.

Hochstrasser, Robert, deceased; Hochstrasser, Elisabeth; and Hochstrasser, Jurgen, administrators. Broaching tool for bore holes partly filled with water. 3,430,717, 3-4-69, Cl. 175-263.

Hochtief A.G. fur Hoch- und Tiefbauten vorm Gebr. Helfmann, Firma: *See—*
Vaessen, Franz, 3,468,084.
Vaessen, Franz, 3,468,514.

Hock, Fromund, to Leitz, Ernst, G.m.b.H. Incremental transducer comprising grating transversed by light ray a plurality of times. 3,421,011, 1-7-69, Cl. 250-231.

Hock, Fromund, to Leitz, Ernst, g.m.b.H. Method and apparatus for determining the positions of indicia utilizing an oscillating light beam and detecting an odd harmonic in the output. 3,454,776, 7-8-69, Cl. 250-232.

Hock, Fromund, to Leitz, Ernst, GmbH. Photoelectric position sensing device comprising light diffracting phase gratings using polarizer beam splitters for sensing the time phase position of the gratings. 3,482,107, 12-2-69, Cl. 250-237.

Hock, Kenneth R.: *See—*
Kent, Raymond W., Jr.; and Hock, Kenneth R.,3,453,356.

Hocke, Wilhelm: *See—*
Gessinger, Werner; and Hocke, Wilhelm,3,434,398.

Hockenberry, Terry O.; and Williams, Everard M., to Siltronics, Inc. Power supply and automatic control system for high-speed electric discharge machining apparatus. 3,456,087, 7-15-69, Cl. 219-69.

Hocker, Talmage: *See—*
Hembree, Oscar O., 3,421,538.

Hockley Chemical Company Limited, The: *See—*
Corbett, Sydney C., 3,481,347.
Hockmeyer, Clive E.: *See—*
Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C.,3,461,513.
Hocks, Peter: *See—*
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf,3,478,065.
Wiechert, Rudolf; Kerb, Ulrich; and Hocks, Peter,3,442,917.
Hocq, Robert R., to Societe Franco-Hispano-Americaine Francispam. Gas-fuel lighters. 3,484,825, 12-16-69, Cl. 239-587.
Hocutt, Urey, to Johnson Fast Print Machine Corporation, The. Method and apparatus for supplying liquid under constant high pressure and abruptly cutting off the supply. 3,462,300, 8-19-69, Cl. 134-33.
Hodag Chemical Corporation: *See—*
Kent, Sheldon E., 3,471,362.
Kritchevsky, Theodore H., 3,468,904.
Hodan, James J.: *See—*
Baranauckas, Charles F.; and Hodan, James J.,3,445,547.
Dever, James L.; and Hodan, James J.,3,459,835.
Dever, James L.; and Hodan, James J.,3,459,837.
Dever, James L.; and Hodan, James J.,3,467,733.
Dever, James L.; and Hodan, James J.,3,482,002.
Gordon, Irving; Hodan, James J.; and Dever, James L.,3,448,179.
Sconce, James S.; Hodan, James J.; and Schall, William L.,3,428,714.
Hoday, Steve F., to Appleton Electric Company. Rewind control mechanism with double pawl-track. 3,486,712, 12-30-69, Cl. 242-107.7
Hodder, Harold F. Arc welder. 3,471,678, 10-7-69, Cl. 219-130.
Hodder, Jack F.; and Schilz, Raphael D. Fan. 3,447,739, 6-3-69, Cl. 230-117.
Hodder, Wayne K.: *See—*
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C.,3,459,925.
Hoddinott, William M., to Textron Inc., mesne. Safety handle for feed screw operating mechanism. 3,424,028, 1-28-69, Cl. 74-625.
Hoddinott, William M., to Textron Inc. Air cooling system for heat generating power transmission and motor unit. 3,467,177, 9-16-69, Cl. 165-47.
Hodes, William, to American Standard Inc. Polyurethane-polysiloxane graft copolymers. 3,463,662, 8-26-69, Cl. 117-118.
Hodgdon, Russell B., Jr., to General Electric Company. Cation exchange fuel cells. 3,484,293, 12-16-69, Cl. 136-86.
Hodgdon, Russell B., Jr.; Aiken, Edwin J.; and Enos, John F., to General Electric Company. Process of making a cross-linked ion exchange membrane. 3,423,278, 1-21-69, Cl. 161-165.
Hodgdon, Russell B., Jr.; Enos, John F.; and Aiken, Edwin J., to General Electric Company. Process of sulfonating poly-alpha, beta, beta- trifluorostyrene. 3,442,825, 5-6-69, Cl. 260-2.2
Hodge, Bernard R. Display device for pretied necktie. 3,456,853, 7-22-69, Cl. 223-87.
Hodge, Edward B., to Commercial Solvents Corporation. Production of O-carbamyl-D-serine. 3,428,525, 2-18-69, Cl. 195-80.
Hodge, Frederick J., to Minnesota Mining and Manufacturing Company. Audio and video recording with phase modulated audio pulse on horizontal back porch. 3,446,914, 5-27-69, Cl. 178-6.6
Hodge, Frederick J.; and Barclay, Ralph R., to Minnesota Mining and Manufacturing Company. Dropout compensator with delayed response. 3,461,230, 8-12-69, Cl. 178-6.6
Hodge, Frederick J.; and Barclay, Ralph R., to Minnesota Mining and Manufacturing Company. Dropout compensator for NTSC color television. 3,463,874, 8-26-69, Cl. 178-5.2
Hodge, Keith L. Auxiliary lock for sliding members. 3,478,471, 11-18-69, Cl. 49-449.
Hodge, Philip Allan, to Anson, Inc. Clasp combined with detachably mounted ornament. 3,421,341, 1-14-69, Cl. 63-4.
Hodge, Ronald I.: *See—*
Bensussan, Andre Marc; and Hodge, Ronald I.,3,439,193.
Hodge, Ronald I., to Atomic Energy of Canada Limited. Electric power generating system. 3,439,194, 4-15-69, Cl. 310-11.
Hodge, Ronald I. System for extracting heat from a liquid metal target. 3,453,175, 7-1-69, Cl. 176-11.
Hodge, Walter D.: *See—*
Rosenberg, Sherman; Smith, Harold W.; and Hodge, Walter D.,3,445,902.
Hodge, William R. Golf putter with head aligning means. 3,486,755, 12-30-69, Cl. 273-164.
Hodgen, Loran M., to Excel Corporation. Method for bedding panels into frames. 3,430,333, 3-4-69, Cl. 29-472.9
Hodges, James R., to Bancroft, Joseph, and Sons Co. High temperature stuffer crimping apparatus. 3,460,214, 8-12-69, Cl. 28-1.
Hodges, James R.: *See—*
Trifunovic, Alexander L.; Hodges, James R.; and Shick, Richard L.,3,452,409.
Hodges, John E.; Joyner, Philip G.; and Toogood, Graham J., to Dowty Hydraulic Units Limited. Gearing and lubricating means therefor. 3,447,472, 6-3-69, Cl. 103-126.
Hodges Press Inc., The: *See—*
Nineberg, Edward, 3,463,084.
Hodges, Roy H.: *See—*
Robson, Homer L.; and Hodges, Roy H.,3,461,202.
Hodges, Wilbur C.: *See—*
Rasch, Arthur A.; Jones, Jean E.; and Hodges, Wilbur C.,3,442,649.
Hodgkin, Irving D.: *See—*
Caldwell, Carlyle G.; Jarowenko, Wadym; and Hodgkin, Irving D.,3,459,632.
Hodgkinson, William Lloyd, to United Kingdom Atomic Energy Authority. Apparatus for examining the internal structure of a body. 3,432,661, 3-11-69, Cl. 250-83.3
Hodgkiss, John A.; Komor, Joseph A.; and Schenck, Leslie M., to GAF Corporation. Low-foaming surfactant compositions. 3,437,697, 4-8-69, Cl. 260-615.
Hodgson, Donald W. Fifth wheel construction. 3,463,512, 8-26-69, Cl. 280-432.
Hodgson, George T., Jr.; and Raphael, Thomas, to Champion Products Inc., mesne. Plastisol inks for fabrics. 3,471,428, 10-7-69, Cl. 260-23.
Hodgson, James E., 1/2 to Schoepe, Adolf. Fuel cell including fire-glazed ceramic walls and ceramic electrolyte impregnated partition. 3,485,676, 12-23-69, Cl. 136-86.
Hodgson, Kenneth George: *See—*
Lewin, Leonard; Hodgson, Kenneth George; and Allen, Stanley George,3,467,911.
Hodgson, R. W.: *See—*
Slewing, Merle R., 3,426,769.
Hodgson, R. W.; and Cairns, William. Photographic apparatus on a camera for producing transfer prints. 3,424,072, 1-28-69, Cl. 95-13.
Hodgson, Richard W.; Kennedy, Clifford F.; and Poarch, Charles T., to North American Rockwell Corporation. Electrical apparatus for changing the effective capacitance of a cable. 3,484,679, 12-16-69, Cl. 323-105.
Hodgson, Robert F.: *See—*
Boop, John L.; and Hodgson, Robert F.,3,421,769.
Hodgson, Robert F., to Commercial Shearing & Stamping Company. Hollow slide valves. 3,482,600, 12-9-69, Cl. 137-596.2
Hodgson, Robert F.; Petro, John D.; and Turko, John D., to Commercial Shearing & Stamping Company. Hydraulic valves. 3,481,364, 12-2-69, Cl. 137-596.
Hodgson, Robert F.; and Williams, Arthur J., to Commercial Shearing & Stamping Company. Pilot operated unloading valve. 3,482,590, 12-9-69, Cl. 137-108.
Hodgson, Robert W.; and Freson, James L. , deceased0 (by Freson, Mae; surviving heir). Safe trailing distance maintenance system for a trailing carrier vehicle. 3,442,347, 5-6-69, Cl. 180-98.
Hodina, Edward G.: *See—*
Gura, Robert J.; and Hodina, Edward G.,3,440,926.
Hodl, Friedrich, to Veitscher Magnesitwerke Actien-Gesellschaft. Rotary cement kiln lining brick. 3,471,136, 10-7-69, Cl. 263-33.
Hodler, Fritz. Venting of pressure molding apparatus. 3,433,291, 3-18-69, Cl. 164-305.
Hodogaya Chemical Co., Ltd.: *See—*
Kawai, Kaiji; Hisada, Tadashi; and Ishimoto, Nobuo, 3,425,820.
Hodson, Harold Francis: *See—*
Coop, Frederick Charles; and Hodson, Harold Francis,3,474,134.
Hodson, Richard J., to Auburn Rubber Company. Disposable display stand. 3,433,365, 3-18-69, Cl. 211-59.
Hoe, R., & Co., Inc.: *See—*
Benda, Alexander Z.; and Woessner, Richard, 3,440,958.
Hovekamp, John C., 3,426,941.
Porter, Clive H., 3,452,674.
Vella, Carl, 3,429,569.
Viegas, John J., 3,452,945.
Hoefer Machine Works: *See—*
Grant, Frank A., 3,440,795.
Hoeffelman, Johan, to Hedwin Corporation. Receptacles and method of making the same. 3,424,343, 1-28-69, Cl. 220-67.
Hoefke, Wolfgang: *See—*
Stahle, Helmut; Koppe, Herbert; Zeile, Karl; Wolf, Martin; and Hoefke, Wolfgang,3,462,433.
Stahle, Helmut; Kummer, Werner; Koppe, Herbert; Zeile, Karl; Hoefke, Wolfgang; and Samtleben, Hans-Wolfgang,3,480,630.
Hoeflmayr, Joachim: *See—*
Fried, Rudolf; and Hoeflmayr, Joachim,3,477,818.
Hoefs, Ralph H.: *See—*
Cheesman, William D.; and Hoefs, Ralph H.,3,483,056.
Hoeft, Rudolf: *See—*
Gerew, Joseph T.; and Hoeft, Rudolf,3,461,755.
Hoeg, Donald F., to Borg-Warner Corporation. α-Chloroalkylidithium compounds. 3,439,053, 4-15-69, Cl. 260-665.
Hoegerman, Henry J. Medical examination gown. 3,464,063, 9-2-69, Cl. 2-114.

Hoegger, Erhard F.: *See—*
Armour, Albert G.; and Hoegger, Erhard F.,3,424,835.
Hoegger, Erhard F., to Du Pont de Nemours, E. I., and Company. Crosslinked polyimides and their preparation. 3,423,365, 1-21-69, Cl. 260-65.
Hoegger, Erhard F., to Du Pont de Nemours, E. I., and Company. Polyamide-acid and polyimide polymers crosslinked with selected hydrazines and hydrazides. 3,436,372, 4-1-69, Cl. 260-47.
Hoegger, Erhard F., to Du Pont de Nemours, E. I., and Company. Polyamideacid and polyimide polymers cross-linked with selected aldehydes and ketones. 3,442,861, 5-6-69, Cl. 260-64.
Hoegger, Erhard F., to Du Pont de Nemours, E. I., and Company. Biaxially oriented polypivalolactone film. 3,476,714, 11-4-69, Cl. 260-78.3
Hoegl, Helmut; Rotta, Gotz; and Columberg, Alfred, to Solvay & Cie. Three-component catalyst for the polymerization of olefins. 3,464,968, 9-2-69, Cl. 260-94.9
Hoegrel, Otto: *See—*
Valle, Louis J.; and Hoegrel, Otto,3,431,544.
Hoehn, Marvin M.: *See—*
Bromer, William W.; Hoehn, Marvin M.; and McGuire, James M.,3,467,751.
Probst, Gerald W.; Hoehn, Marvin M.; and McGuire, James M.,3,467,750.
Hoehne, Gerd: *See—*
Soehner, Gerhard; and Hoehne, Gerd,3,473,061.
Hoekje, Harverd J.: *See—*
Comber, William R.; and Hoekje, Harverd J.,3,453,674.
Hoekje, Howard H.: *See—*
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H.,3,443,897.
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H.,3,475,123.
Hoeksema, Hendrikus M., to Honeywell G.m.b.H. Electrical timer system having electrolytic timing cell. 3,444,439, 5-13-69, Cl. 317-231.
Hoeksema, Herman, to Upjohn Company, The. N,N' 9-0-tri-loweralkanoylactionospectacins. 3,427,321, 2-11-69, Cl. 260-340.3
Hoeksema, Herman, to Upjohn Company, The. 9-D-Psicofuranosylpurine and 6-substituted derivatives. 3,446,792, 5-27-69, Cl. 260-211.5
Hoekstra, Age Hylke: *See—*
Wanmaker, Willem Lambertus; Radielovic, Dragutin; and Hoekstra, Age Hylke,3,468,812.
Hoekstra, Gerard W.: *See—*
Taebel, Wilbert A.; and Hoekstra, Gerard W.,3,484,278.
Hoekstra, James, to Universal Oil Products Company. Oxidation of soluble sulfide compounds. 3,423,180, 1-21-69, Cl. 23-224.
Hoekstra, James, to Universal Oil Products Company. Molecular rearrangement of cycloalkadienic compounds. 3,432,564, 3-11-69, Cl. 260-666.
Hoekstra, James, to Universal Oil Products Company. Process for the hydrogenation of trans, cis- 1,5-cyclodecadiene to cis-cyclodecene. 3,433,842, 3-18-69, Cl. 260-666.
Hoekstra, James, to Universal Oil Products Company. Selective hydrogenation of trans, Cis-1,5- cyclodecadiene to cis-cyclodecene. 3,433,843, 3-18-69, Cl. 260-666.
Hoekstra, James, to Universal Oil Products Company. Sulfur production. 3,457,046, 7-22-69, Cl. 23-224.
Hoekstra, James, to Universal Oil Products Company. Regeneration of sulfur contaminated catalysts. 3,460,913, 8-12-69, Cl. 23-224.
Hoekstra, Jan J. J.: *See—*
Stelwagen, Willem; and Hoekstra, Jan J. J.,3,461,518.
Hoekstra, Piet, to U.S. Philips Corporation, mesne. Light projection system. 3,457,401, 7-22-69, Cl. 240-41.3
Hoekstra, Piet; and Theisman, Jan Bernardus Reint, to U.S. Philips Corporation, mesne. Control circuit for flashing an arc discharge lamp. 3,443,154, 5-6-69, Cl. 315-240.
Hoel, Hans, to English Electric Company Limited, The. Apparatus for determining distance-to-fault in electrical systems. 3,474,333, 10-21-69, Cl. 324-52.
Hoelle, Hermann: *See—*
Babitzka, Rudolf; Baumann, Gunther; Hoelle, Hermann; and Scholl, Hermann,3,463,129.
Hoelle, Hermann; Kind, Wilhelm; and Scholl, Hermann, to Bosch, Robert, G.m.b.H. Fuel injection system and control transducer apparatus therefor. 3,452,727, 7-1-69, Cl. 123-32.
Hoelsch, Edward S., deceased0 (by Hoelsch, Madeleine M., administratrix), to Hays Manufacturing Company. Swingably supported valve. 3,424,430, 1-28-69, Cl. 251-148.
Hoelsch, Madeleine M.: *See—*
Hoelsch, Edward S.,3,424,430.
Hoelscher, Friedrich: *See—*
Reinhard, Hans; Hoelscher, Friedrich; and Dotzauer, Bernhard,3,423,232.
Hoelscher, Harold Ewald: *See—*
Roberts, George Leathwhite; Hoelscher, Harold Ewald; and Cauwenberg, Winfred Joseph,3,424,561.
Hoeltge, Elmer J. Adjustable rack and waste removal means for animal cages. 3,463,123, 8-26-69, Cl. 119-22.
Hoeltzel, Frederic E.; and Ott, Richard H., to Anaconda Wire and Cable Company. Safety stop for wire drawing machine. 3,468,144, 9-23-69, Cl. 72-5.
Hoenger, Rudolf: *See—*
Guldenfels, Willy; and Hoenger, Rudolf,3,475,532.
Hoenick, Hermann Hans, to Girling Limited. Closed loop disc brake. 3,428,152, 2-18-69, Cl. 188-73.
Hoenick, Hermann Hans; and Beller, Hans Albert, to Girling Limited. Automatic adjusters for vehicle brakes. 3,459,282, 8-5-69, Cl. 188-106.
Hoenick, Hermann Hans: *See—*
Schuchmann, Gerhard Ernst Ludwig Otto; Rath, Heinrich Bernhard; and Hoenick, Hermann Hans,3,421,603.
Hoenig, John. Center post guided die cushion assembly. 3,481,592, 12-2-69, Cl. 267-1.
Hoenig, Stuart A., to Battelle Development Corporation, The. Separating components in gases. 3,475,882, 11-4-69, Cl. 55-179.
Hoer, Kenneth George, to Muirhead & Co., Limited. Drum-type facsimile receivers. 3,449,512, 6-10-69, Cl. 178-7.3
Hoerbiger Ventilwerke Aktiengesellschaft: *See—*
Bauer, Friedrich, 3,480,199.
Kohler, Robert Felix; and Fromhold, Otto, 3,463,184.
Sochting, Herbert, 3,429,341.
Hoerman, Kirk C.; and Sudduth, Herschel C., to United States of America, Navy. Method of detecting ad identifying microorganisms and other biologic materials. 3,449,571, 6-10-69, Cl. 250-71.
Hoerner, Gerald D. Table with vertically adjustable level. 3,460,488, 8-12-69, Cl. 108-144.
Hoerner-Waldorf Corporation: *See—*
Boyer, Gary W., 3,465,948.
Dunning, Robert M., 3,448,852.
Frohlicher, Stephen G., 3,426,956.
Harkness, Duane E., 3,452,514.
Johnson, Ronald V., 3,441,195.
Johnson, Ronald V., 3,465,946.
Martin, Daryl T., 3,464,370.
Martin, Daryl T., 3,465,877.
Nelson, Iver L.; and Dettman, Harold V., 3,465,499.
Olson, Jerome F., 3,426,955.
Oravez, Carl A., 3,425,367.
Simmons, Gerald B., 3,450,251.
Wysocki, Lawrence S., 3,443,681.
Wysocki, Lawrence S., 3,451,539.
Wysocki, Lawrence S., 3,467,298.
Hoernes, Gerhard E.; and Weber, Edward V., to International Business Machines Corporation. Automatic control apparatus. 3,469,257, 9-23-69, Cl. 340-347.
Hoerriger Ventilwerke Aktiengesellschaft: *See—*
Kohler, Robert, 3,428,082.
Hoersch, Theodore M., to Swift & Company. Cold treatment before slaughtering. 3,479,688, 11-25-69, Cl. 17-45.
Hoesch Aktiengesellschaft: *See—*
Hoffmann, Hans-Jurgen; and Lohr, Manfred, 3,469,661.
Lohr, Manfred, 3,450,235.
Resch, Werner; and Fliege, Oskar, 3,450,399.
Zywietz, Walter; Gantke, Franz; Seiz, Rudolf; Lichtenbaumer, Hans-Gunther; and Neeff, Joachim, 3,438,211.
Hoesch Maschinenfabrik Deutschland AG: *See—*
Engelbrecht, Wilhelm, 3,469,476.
Hoesch-Chemie Gesellschaft mit beschraenkter Haftung Duren-Chemie: *See—*
Szczepanek, Alfred; and Szczepanek, Margarete, 3,459,776.
Hoeschel, Helmut Gerhard: *See—*
Allard, Harrie Martin; and Hoeschel, Helmut Gerhard,3,465,387.
Hoeschele, Guenther K.: *See—*
Gregor, Harry P.; Teyssie, Philippe; and Hoeschele, Guenther K.,3,434,979.
Hoeschele, Guenther Kurt, du Pont de Nemours, E. I., and Company. Polyurethanes cured with 4,4'-methylene -bis-,o-trifluoromethylaniline,. 3,429,856, 2-25-69, Cl. 260-77.5
Hoeschele, Guenther Kurt, to Du Pont de Nemours, E. I., and Company. Cellulosic materials coated with an organic polycarbodiimide. 3,450,562, 6-17-69, Cl. 117-155.
Hoeschele, Guenther Kurt, to Du Pont de Nemours, E. I., and Company. Polyurethane-polyureas. 3,456,037, 7-15-69, Cl. 260-858.
Hoeschele, Guenther Kurt, to Du Pont de Nemours, E. I., and Company. Liquid polyisocyanates and their stepwise preparation. 3,459,781, 8-5-69, Cl. 260-453.
Hoess, Erwin, to United States of America, Army. Catalyzed Wurtz-Fittig synthesis. 3,431,221, 3-4-69, Cl. 260-2.
Hoever, Franz: *See—*
Rolauffs, Hans; and Hoever, Franz,3,443,536.
Hoever, Franz, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Fast tenter frame for multi-head embroidering machines. 3,482,536, 12-9-69, Cl. 112-103.
Hoever, Paul: *See—*
Drescher, Hans-Peter; and Hoever, Paul,3,428,363.
Hoey, Gordon Randolph, to Canadian Industries Limited. Anodic protection of metals. 3,442,779, 5-6-69, Cl. 204-147.

Hoey, Raymond M.: *See—*
Knohl, Herbert; and Hoey, Raymond M.,3,453,843.
Hofe, Eugene F., to Londontown Manufacturing Company, The. Method and apparatus for sleeving a button shank. 3,440,984, 4-29-69, Cl. 112-110.
Hofenk, Gerrit: *See—*
Heunks, Antonius M. A.; Kars, Franciscus A.; and Hofenk, Gerrit,3,446,601.
Hofer, Alan, to Dyna Magnetic Devices, Inc. Miniature audio amplifiers. 3,454,896, 7-8-69, Cl. 330-40.
Hofer, John Gerald: *See—*
McMullin, Edward Vincent; and Hofer, John Gerald,3,477,833.
Hofer,Walter David. Eccentric bearing linkage for hoe drills. 3,431,981, 3-11-69, Cl. 172-269.
Hoff, Adam Frank. Adhesive fastener. 3,470,590, 10-7-69, Cl. 24-67.
Hoff, Dale R.: *See—*
Henry, David W.; and Hoff, Dale R.,3,472,864.
Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W.,3,487,087.
Sletzinger, Meyer; and Hoff, Dale R.,3,429,890.
Hoff, Don G. Dispenser for hollow truncated articles. 3,477,612, 11-11-69, Cl. 221-40.
Hoff, Gail, to Princeton Laboratories, Inc. Diagnostic test for infectious mononucleosis with aldehyde treated equine erythrocytes. 3,426,123, 2-4-69, Cl. 424-12.
Hoff, James L., to Inductotherm Linemelt Corporation. Temperature control for electric heating devices. 3,456,061, 7-15-69, Cl. 13-26.
Hoff, Marcian E., Jr.: *See—*
Widrow, Bernard; and Hoff, Marcian E., Jr.,3,454,753.
Hoff, Melvern C.: *See—*
O'Grady, Thomas M.; Alm, Robert M.; and Hoff, Melvern C.,3,437,698.
Hoff, Trygve & Associates: *See—*
Green, Raymond E., 3,430,398.
Hoffacker, Don L. Snobble trailer. 3,438,652, 4-15-69, Cl. 280-423.
Hoffacker, Franz: *See—*
Gersch, Josef; Wiesner, Max; Hoffacker, Franz; Barke, Hans Joachim; Johanns, Heinz; and Kreckeler, Fritz,3,481,552.
Hoffann-La Roche Inc.: *See—*
Teitel, Sidney; and Goldberg, Moses Wolf, 3,481,980.
Hoffer, Gary I.: *See—*
Strnat, Karl J.; Hoffer, Gary I.; Ostertag, Werner; and Olson, John C.,3,424,578.
Hoffer, Max: *See—*
Duschinsky, Robert; and Hoffer, Max,3,467,752.
Hoffer, Max, to Hoffmann-La Roche Inc. Nitroimidazole derivatives. 3,435,049, 3-25-69, Cl. 260-309.
Hoffer, Max, to Hoffmann-La Roche Inc.2,4-Diamino-5-(2',4',5'-substituted benzyl)- pyrimidines, intermediates and processes. 3,485,840, 12-23-69, Cl. 260-251.
Hoffer, Max; and Mitrovic, Milan, to Hoffmann-La Roche Inc.Compositions containing a sulfanilamide and a 2,4-diamino-5-[2',4',5' trisubstituted benzyl] pyrimidine. 3,461,206, 8-12-69, Cl. 424-229.
Hoffert, Franklin D., to Hydrocarbon Research, Inc. Production of hydrocarbons from shale. 3,483,116, 12-9-69, Cl. 208-11.
Hoffler, William B., to Reynolds Metals Company. Apparatus for packaging product means. 3,452,511, 7-1-69, Cl. 53-219.
Hofflinger, Bernd, to Siemens Aktiengesellschaft. Avalanche diode for generating oscillations under quasi-stationary and transit-time conditions. 3,483,441, 12-9-69, Cl. 317-234.
Hoffman, Arlene May: *See—*
Tomcufcik, Andrew Stephen; Hoffman, Arlene May; and Fabio, Paul Frank,3,452,034.
Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M.,3,468,892.
Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M.,3,481,935.
Hoffman, Bernard L., to Krause, Frederick A., Associates, Inc. Manufacturing of containers by deep drawing. 3,420,088, 1-7-69, Cl. 72-349.
Hoffman, Bernard L., to Krause, Frederick A., Associates, Inc. Controlled embossing. 3,426,571, 2-11-69, Cl. 72-335.
Hoffman, Carl C., Pneumatic potato separator. 3,428,172, 2-18-69, Cl. 209-3.
Hoffman, Charles J.: *See—*
Pratt, Donald W.; and Hoffman, Charles J.,3,455,188.
Hoffman, David C.; Ender, Wyman K.; and Wold, Allan I. Inlet guide vane actuating arrangement for multistage centrifugal compressor. 3,461,685, 8-19-69, Cl. 62-510.
Hoffman Donald J., to General Motors Corporation. Method of making a valve lifter. 3,458,923, 8-5-69, Cl. 29-501.
Hoffman, Donald O.: *See—*
Hovey, Richard J.; and Hoffman, Donald O.,3,440,173.
Hoffman, Eldon P., to Tektronix Inc. Power selection device. 3,453,403, 7-1-69, Cl. 200-51.
Hoffman Electronics Corporation: *See—*
Arase, Shingo, 3,470,451.
Biggs, James B., 3,473,130.
Briggs, James B., 3,474,449.
Hoffman, Floyd C.; and Miller, Theodore W., to Armco Steel Corporation. Deburring tool. 3,478,558, 11-18-69, Cl. 72-199.
Hoffman, Frances G., to Merck & Co., Inc.17α-Lower alkoxypregna-4,6-diene-3,20-dione steroids. 3,453,297, 7-1-69, Cl. 260-397.4
Hoffman, George J.; and Abella, James E., to Kendale Industries, Inc. Pawl-type clutch assembly. 3,463,280, 8-26-69, Cl. 192-43.1
Hoffman, Harold A. High protein food. 3,485,636, 12-23-69, Cl. 99-17.
Hoffman, Harry S., Jr., to International Business Machines Corporation. Non-parallel surfaced light deflector-selector. 3,449,039, 6-10-69, Cl. 350-157.
Hoffman, Harry S., Jr.; and Lee, Hua-Tung, to International Business Machines Corporation. DC-to-DC converter with continuous feed to the load. 3,443,195, 5-6-69, Cl. 321-2.
Hoffman, Harry S., Jr.; and Lipp, James, to International Business Machines Corporation. Compensated path length polarized light deflector-selector. 3,449,576, 6-10-69, Cl. 350-157.
Hoffman, Harry S., Jr.: *See—*
Baxter, Duane W.; Felton, Bruce C.; Hill, Harold W.; and Hoffman, Harry S., Jr.,3,428,953.
Boehm, Gilbert O.; Hoffman, Harry S., Jr.; and Williams, James H.,3,463,571.
Hoffman, Herbert H. Power hammer. 3,474,871, 10-28-69, Cl. 173-99.
Hoffman Information Systems, Inc.: *See—*
Stoyanoff, Louis J., 3,434,784.
Hoffman, Jerome J., to Minnesota Mining and Manufacturing Company. Flexible, fibrous, porous sheet containing cured epoxy resin and process of making same. 3,486,925, 12-30-69, Cl. 117-76.
Hoffman, Jerrold D. Sequential coded ringing of party line telephones. 3,428,750, 2-18-69, Cl. 179-5.
Hoffman, John D.: *See—*
Crawford, Donald C.; Viitanen, Veikko K.; and Hoffman, John D.,3,431,828.
Hoffman, John E., Jr.: *See—*
Skromme, Arnold Burton; Henningsen, Etlar August; and Hoffman, John E., Jr.,3,462,975.
Wischmeyer, William F.; and Hoffman, John E.,3,434,599.
Hoffman, John George, Jr.: *See—*
McGill, Thomas Alan; and Hoffman, John George, Jr.,3,443,731.
Hoffman, Josef: *See—*
Vondracek, Miloslav; Toscaniova, Eva; and Hoffman, Josef,3,481,916.
Hoffman, Joseph Adrian, to American Cyanamid Company. Polyvalent alkyleneimine esters. 3,436,387, 4-1-69, Cl. 260-239.
Hoffman, Joseph Adrian, to American Cyanamid Company. Trisβ-chloroacrylylhexahydro-s-triazines. 3,438,984, 4-15-69, Cl. 260-248.
Hoffman, Joseph Adrian, to American Cyanamid Company. Polyvalent alkyleneimine adducts of α,β-unsaturated esters. 3,445,457, 5-20-69, Cl. 260-239.
Hoffman, Joseph H.: *See—*
Hagg, Arthur C.; and Hoffman, Joseph H.,3,476,452.
Hoffman, Kenneth Carl, to Arvey Corporation. Pouch for frozen food products. 3,454,211, 7-8-69, Cl. 229-53.
Hoffman Laboratories, Inc.: *See—*
Rosen, William E.; and Drew, John W., 3,468,900.
Hoffman, Leonard William; and Guertin, Roland Maurice, to Pennsalt Chemicals Corporation. Process for production of anhydrous alkyl and cycloalkyl amines. 3,450,760, 6-17-69, Cl. 260-563.
Hoffman, Leslie J. Differential-pressure responsive indicator. 3,429,291, 2-25-69, Cl. 116-70.
Hoffman, Lewis C.: *See—*
Ballard, Kermit H.; and Hoffman, Lewis C.,3,450,545.
Bugosh, John; and Hoffman, Lewis C.,3,443,973.
Hoffman, Lewis C., to Du Pont de Nemours, E. I., and Company. Capacitor dielectric compositions and capacitors made therefrom. 3,437,892, 4-8-69, Cl. 317-258.
Hoffman, Lewis C., to Du Pont de Nemours, E. I., and Company. Metalizing compositions containing critical proportions of metal (Pt-Au or Pd-Au) and a specific high density frit. 3,440,062, 4-22-69, Cl. 106-1.
Hoffman, Lewis C., to Du Pont de Nemours, E. I., and Company. Copper/vanadium oxide compositions, noble metal meta- lizing compositions containing vanadium oxides additives, and electrical conductor elements made therewith. 3,440,182, 4-22-69, Cl. 252-514.
Hoffman, Lewis C., to Du Pont de Nemours, E. I., and Company. Low melting glass and compositions containing the same. 3,480,566, 11-25-69, Cl. 252-514.
Hoffman, Louis; and Behrman, Arthur. Auxiliary door lock. 3,421,787, 1-14-69, Cl. 292-289.
Hoffman, Mary V., to General Electric Company. Strontium yttrate luminescent materials. 3,450,642, 6-17-69, Cl. 252-301.4
Hoffman, Mary V., to General Electric Company. Alkaline earth yttrate luminescent materials. 3,450,643, 6-17-69, Cl. 252-301.6

Hoffman, Mary V., to General Electric Company. Europium-activated strontium magnesium pyrophosphate phosphors. 3,484,383, 12-16-69, Cl. 252-301.6
Hoffman, Murray: *See—*
Felsenheld, Robert A.; Hoffman, Murray; and Perrotti, Emmanuel J.,3,471,808.
Hoffman, Olin M.: *See—*
Feichter, Harold R.; Abernethy, Ira A.; Eishley, Charles F.; Cable, Stephen J.; and Hoffman, Olin M.,3,444,660.
Hoffman, P. R., Company: *See—*
Jansen, Johannes T., 3,483,858.
Hoffman, Paul H., to Raney, Roy E., and Clark, Charles F., mesne. Corrugated resin sheet with hollow member. 3,425,180, 2-4-69, Cl. 52-309.
Hoffman, Paul R.: *See—*
Baldwin, Bradford J.; Cornell, William D.; Hoffman, Paul R.; and Russell, Jack A.,3,469,905.
Cornell, William D.; Disney, Morton F., Jr.; and Hoffman, Paul R.,3,435,120.
Hoffman, Paul R., to Burroughs Corporation. Pneumatic memory with electrical read-out means. 3,461,435, 8-12-69, Cl. 340-173.
Hoffman, Paul R., to Burroughs Corporation. Punch selector mechanism. 3,465,959, 9-9-69, Cl. 234-114.
Hoffman, Paul R.; Disney, Morton F., Jr.; Norgren, Edwin A.; and Cornell, William D., to Brunswick Corporation. Multiple alley bowling game scoring system including lane sequencer. 3,484,107, 12-16-69, Cl. 273-54.
Hoffman, Philip A., to Bendix Corporation, The, mesne. Analog-to-digital converter. 3,462,759, 8-19-69, Cl. 340-347.
Hoffman, Philip A.; Barbour, Charles W.; and Egerton, McKenny W., Jr., to Bendix Corporation, The, mesne. Balanced charge transfer circuit. 3,469,255, 9-23-69, Cl. 340-347.
Hoffman Products Corporation: *See—*
Voigt, Du Monte Otto; and Avicola, Richard, 3,467,770.
Hoffman, Ralph A.: *See—*
Turner, Donald B.; and Hoffman, Ralph A.,3,430,787.
Hoffman, Richard A., to Du Pont de Nemours, E. I., and Company. Apparatus for controlling octane value in gasoline. 3,469,954, 9-30-69, Cl. 44-2.
Hoffman, Richard Alan; May, Joe Turner; and Meckley, Frederick William, to Du Pont de Nemours, E. I., and Company. Method and apparatus for blending gasolines. 3,437,461, 4-8-69, Cl. 44-2.
Hoffman, Robert K., to Norgren, C. A., Co. Automatic liquid supply apparatus. 3,447,562, 6-3-69, Cl. 137-414.
Hoffman, Robert L.: *See—*
Parrett, John T.; and Hoffman, Robert L.,3,483,798.
Hoffman, Robert. Orthodontic spring clip fastening system. 3,458,031, 7-29-69, Cl. 206-56.
Hoffman, Robert; and Gross, Leo. Method for promoting the flow of molten materials into a mold using ultrasonic energy via probe means. 3,461,942, 8-19-69, Cl. 164-49.
Hoffman, Roger L., to General Electric Company. Dish rack track assembly for a dishwashing machine. 3,465,763, 9-9-69, Cl. 134-154.
Hoffman, Sellers P., to Western Electric Company, Incorporated. Amplitude detector having a tunnel diode linearity compensating circuit. 3,466,556, 9-9-69, Cl. 329-205.
Hoffman, Vincent L.: *See—*
Siddall, Don F.; and Hoffman, Vincent L.,3,474,760.
Hoffman, William D.: *See—*
Burk, Emmett H., Jr.; and Hoffman, William D.,3,480,559.
Chao, Tai S.; Kjonaas, Manley; and Hoffman, William D.,3,441,600.
Hoffman, William D.; Burk, Emmett H., Jr.; and Eichhorn, Robert M., to Sinclair Research, Inc. Process of shifting the double bond in mono- olefins to a terminal, non-tertiary position. 3,432,570, 3-11-69, Cl. 260-683.2
Hoffman, William F.; and Hyltin, Tom M., to Texas Instruments, Incorporated. Diode loaded line phase shifter. 3,436,691, 4-1-69, Cl. 333-31.
Hoffman, William F.: *See—*
Hyltin, Tom J.; Hoffman, William F.; and Austin, James E.,3,454,906.
Hoffman, William M., to National Cash Register Company, The. Perforated card reader. 3,423,575, 1-21-69, Cl. 235-61.11
Hoffmann, Albrecht; and Wolfrum, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Monoazo dyestuffs containing a 6-hydroxynaphtho- styrile group. 3,462,408, 8-19-69, Cl. 260-146.
Hoffmann, Alfred: *See—*
Klein, Heinrich; Weber, Eduard; Pieper, Rudolf; and Hoffmann, Alfred,3,477,569.
Hoffmann, Arthur H., to Westinghouse Electric Corporation. Synchronous motor field control circuit. 3,470,435, 9-30-69, Cl. 318-176.
Hoffmann, Arthur H.: *See—*
Tomeo, Anthony; Nelson, John Allison; and Hoffmann, Arthur H.,3,440,509.
Hoffmann, Arthur Kentaro; and Abraham, Ernestine Gelblum, to American Cyanamid Company. Stable free radical nitroxides. 3,422,144, 1-14-69, Cl. 260-570.
Hoffmann, Banesh. Phonic alphabet. 3,426,451, 2-11-69, Cl. 35-35.
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William, to National Lead Company. Preparation of a rutile titanium dioxide-anhydrite composite pigment. 3,453,128, 7-1-69, Cl. 106-300.
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William, to National Lead Company. Method of preparing a rutile titanium dioxide- anhydrite composite pigment. 3,453,129, 7-1-69, Cl. 106-300.
Hoffmann, Charles; and Faure, Andre, to Laboratoires U.P.S.A. Analgesic and anti-inflammatory composition consisting essentially of 2-(2,3-xylyamino)-nicotinic acid. 3,466,373, 9-9-69, Cl. 424-266.
Hoffmann, Charles; and Faure, Andree, to Societe Anonyme dite: Laboratoires U.P.S.A.Novel pyrido [2,3-*s*] [1,5] benzooxaze-pin-5-ones and pyrido [2,3-*s*] [1,5] benzothiazepin-5-ones. 3,446,799, 5-27-69, Cl. 260-239.3
Hoffmann, Erik: *See—*
Pfleiderer, Friedrich; Mertel, Heinz; Hoffmann, Erik; and Seidel, Ekkehard,3,428,753.
Hoffmann, Gerhard, to VEB Warnowwerft Warnemunde. Device for testing engine condition of vessels. 3,487,426, 12-30-69, Cl. 73-117.1
Hoffmann, Gunther, to Wandel u. Goltermann KG. Denominational switching stage. 3,453,542, 7-1-69, Cl. 324-79.
Hoffmann, Hans-Jurgen; and Lohr, Manfred, to Hoesch Aktiengesellschaft. Hydraulic shock absorber and fluid reservoir means therefor. 3,469,661, 9-30-69, Cl. 188-100.
Hoffmann, Herbert: *See—*
Schmidt, Walter; Vitzthum, Dieter; Hoffmann, Herbert; and Katz, Helmut,3,458,913.
Hoffmann, Herbert; and Vitzthum, Diether, to Siemens Aktiengesellschaft. Indirectly heated dispenser cathode for electric discharge tube. 3,454,816, 7-8-69, Cl. 313-346.
Hoffmann, Herman; and Trottier, Claude H., to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning, mesne. Preparation of adamantane. 3,457,317, 7-22-69, Cl. 260-666.
Hoffmann, Hermann; and Marsocci, Samuel F., to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning, mesne. Method for preparing chlorobenzene thiols. 3,440,288, 4-22-69, Cl. 260-609.
Hoffmann, Hermann; and Zeitler, Heidi, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning, mesne. Azo dyestuffs of the acridone series. 3,478,010, 11-11-69, Cl. 260-152.
Hoffmann, Herwig: *See—*
Baer, Karl; Hoffmann, Herwig; and Suessenguth, Hermann,3,427,356.
Hoffmann, Hinrich: *See—*
Nahm, Helmut; Oppermann, Adolf; Hoffmann, Hinrich; Kornlein, Max; and Oppinger, Heinz,3,461,116.
Hoffmann, Klaus, to VEB Arzneimittelwerk. Silicomagnesium-aluminate-hydrate gel and method of preparing the same. 3,476,692, 11-4-69, Cl. 252-317.
Hoffmann, Leo; and Klaverkamp, Bernard, to Baldwin-Lima-Hamilton Corporation. Gripping device with variable wedge angle. 3,440,856, 4-29-69, Cl. 72-302.
Hoffmann, Manfred; Wendelin, Roland; and Katscher, Erich, to Siemens Aktiengesellschaft. Housing arrangement for rectifier device. 3,467,897, 9-16-69, Cl. 317-234.
Hoffmann Manufacturing Company Limited, The: *See—*
Spencer, Frederick; and Jones, Reginald Winstone, 3,467,453.
Hoffmann, Meinhard; Adler, Erich; and Debus, Karl-Jurgen, to Linotype GmbH. Photocomposing machines. 3,466,991, 9-16-69, Cl. 95-4.5
Hoffmann, Otto, to Sennheiser Electronic. Directional microphone with substantially frequency-independent directional characteristics. 3,444,955, 5-20-69, Cl. 181-31.
Hoffmann, Richard. Method and apparatus for manufacturing shoes. 3,428,981, 2-25-69, Cl. 12-1.
Hoffmann, Robert, to Placard-Chicago Corporation. Plastic card and method of making same. 3,461,581, 8-19-69, Cl. 40-2.2
Hoffmann, Wolfgang; Neuscheler, Friedrich; and Schuon, Eberhard, to Wandel u. Goltermann KG. Damping network. 3,474,356, 10-21-69, Cl. 333-81.
Hoffmann-La Roche, Inc.: *See—*
Albrecht, Harry Allen; and Plati, John Thomas, 3,422,095.
Albrecht, Harry Allen; and Plati, John Thomas, 3,422,115.
Archer, Giles A.; and Sternbach, Leo Henryk, 3,446,806.
Archer, Giles A.; and Sternbach, Leo Henryk, 3,462,418.
Archer, Giles Allan; and Sternbach, Leo Henryk, 3,422,091.
Barry, Richard Henry; and Weiss, Michael, 3,427,379.
Bauernfeind, Jacob; and Mitrovi, Milan, 3,458,631.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,468,902.
Berger, Leo; and Sternbach, Leo Henryk, 3,466,328.
Berger, Leo; and Corraz, Alfred John, 3,484,449.
Boller, Arthur; Furst, Andor; and Muller, Marcel, 3,463,775.
Brossi, Arnold; and Pecherer, Benjamin, 3,457,295.
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney, 3,464,990.
Brust, Bernar; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,420,841.

Brust, Bernard; Fryer, Rodney Ian; and Sterbach, Leo Henryk, 3,420,836.
Carstensen, Jens Thuroe; Newmark, Harold Leon; and Vance, John James, 3,450,821.
Carstensen, Jens Thuroe; Sheth, Prabhakar Ranchhordas; and Vance, John James, 3,487,152.
Cavalli, Arnold; and Magid, Louis, 3,446,891.
Cavalli, Arnold; and Magid, Louis, 3,446,899.
Cohen, Aaron; and Heath-Brown, Basil, 3,457,271.
De Ritter, Elmer; and Raymond, Joseph Edward, 3,433,872.
Den Hollander, Charles William, 3,448,059.
Den Hollander, Charles William, 3,448,113.
Dolan, Lee Allen, 3,465,038.
Duschinsky, Robert; and Hoffer, Max, 3,467,752.
Edenhofer, Albrecht; and Spiegelberg, Hans, 3,478,048.
Farley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,464,978.
Fellig, Josef; and Rachlin, Albert Israel, 3,423,428.
Field, George Francis; and Sternbach, Leo Henryk, 3,481,921.
Field, George Francis; and Sternbach, Leo Henryk, 3,485,823.
Field, George Francis; and Sternbach, Leo Henryk, 3,485,841.
Finkelstein, Jacob, 3,480,634.
Focella, Antonino; Gurien, Harvey; and Rachlin, Albert Israel, 3,431,301.
Focella, Antonino; and Rachlin, Albert Israel, 3,446,797.
Frank, Ulrich A., 3,470,745.
Frohlich, Gerhard Joseph; Kratavil, Allan Jerome; and Zrike, Edward, 3,453,191.
Fryer, Rodney Ian; Reeder, Earl; and Sternbach, Leo Henryk, 3,431,304.
Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,439,016.
Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,440,281.
Furst, Andor; Muller, Marcel; and Saucy, Gabriel, 3,476,746.
Furst, Andor; and Herzog, Ernst Gerhard, 3,476,781.
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,478,065.
Furst, Andor; and Muller, Marcel, 3,480,620.
Furst, Andor; and Muller, Marcel, 3,481,956.
Gibas, John Thaddeus; Lee, Hsi Lin; and Wenner, Wilhelm, 3,457,266.
Gloor, Urs; and Bohnen, Klaus, 3,466,162.
Guex, Waldemar; Schlapfer, Reinhard; and Spiegelberg, Hans, 3,467,505.
Gutmann, Hugo; Jaunin, Roland; Kaiser, Ado; and Zeller, Paul, 3,459,799.
Hellerbach, Joseph, 3,428,646.
Hellerbach, Joseph; Stempel, Arthur; and Sternbach, Leo Henryk, 3,475,415.
Hoffer, Max, 3,435,049.
Hoffer, Max; and Mitrovic, Milan, 3,461,206.
Hoffer, Max, 3,485,840.
Jaunin, Roland; and Zeller, Paul, 3,441,594.
Jaunin, Roland; and Zeller, Paul, 3,441,595.
Keller, Oscar; Steiger, Norbert; and Sternbach, Leo Henryk, 3,442,946.
Kierstead, Richard Wightman, 3,448,123.
Kierstead, Richard Wightman; and Lemahieu, Ronald Andrew, 3,484,489.
Kiss, Joseph; Spiegelberg, Hans; Vaterlaus, Bruno Peter; Rachlin, Albert; and Doebel, Karl, 3,445,455.
Klaui, Heinrich, 3,436,459.
Klaui, Heinrich; Rehm, Walter; and Schlegel, Wolfgang, 3,466,362.
Krubiner, Alan Martin; and Oliveto, Eugene Paul, 3,459,772.
Lehr, Hanns H.; and Mitrovic, Milan, 3,454,577.
Lehr, Hanns Hanina, 3,459,742.
Magid, Louis, 3,446,894.
Magid, Louis, 3,453,368.
Marbet, Roman, 3,428,694.
Marbet, Roman; and Saucy, Gabriel, 3,453,317.
Marbet, Roman, 3,456,015.
Mayer, Hans J.; Ruegg, Rudolf; and Schudel, Peter, 3,455,959.
Metesics, Werner; and Sternbach, Leo Henryk, 3,467,656.
Metlesics, Werner; and Sternbach, Leo Henryk, 3,438,972.
Metlesics, Werner; and Sternbach, Leo Henryk, 3,450,696.
Munzel, Kurt, 3,431,338.
Osbond, John Mervyn; and Fothergill, Graham Alwyn, 3,450,704.
Osbond, John Mervyn; and Wickens, James Charles, 3,466,289.
Pecherer, Benjamin, 3,465,051.
Propper, Ronald, 3,453,290.
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred, 3,453,277.
Raymond, Joseph Edward, 3,458,623.
Reeder, Earl; and Sternbach, Leo Henryk, 3,427,304.
Robinson, Herbert Loren, 3,482,564.
Ruegg, Rudolf; and Schmialek, Peter, 3,429,970.
Ruegg, Rudolf; and Schwieter, Ulrich, 3,466,335.
Russomanno, Rocco Joseph, 3,448,011.
Schlegel, Wolfgang; Schwieter, Ulrich; and Tamm, Rudolf, 3,458,637.
Schuler, Wilhelm Alfons; Schlichtegroll, Ansgar V.; Beschke, Helmut; and Klingler, Karl-Heinz, 3,485,926.
Stempel, Arthur; and Sternbach, Leo Henryk, 3,420,817.
Stempel, Arthur; and Sternbach, Leo Henryk, 3,453,279.
Stempel, Arthur; and Sternbach, Leo Henryk, 3,453,326.
Sternbach, Leo Henryk; and Stempel, Arthur, 3,450,695.
Sternbach, Leo Henryk; Saucy, Gabriel; Sach, George Sidney; and Stempel, Arthur, 3,455,985.
Surmatis, Joseph Donald, 3,429,928.
Surmatis, Joseph Donald, 3,441,623.
Surmatis, Joseph Donald; and Walser, Armin, 3,466,331.
Surmatis, Joseph Donald, 3,478,104.
Uskokovic, Milan Radoje, 3,471,550.
Vogler, Karl, 3,433,779.
Vogler, Karl, 3,455,911.
Wenner, Wilhelm; and Uskokovic, Milan Radoje, 3,463,774.
Wenner, Wilhelm; and Uskokovic, Milan Radoje, 3,485,824.
Ziering, Albert, 3,474,106.

Hoffmeister, Erich, to Kaltenbach & Voigt. Dental handpiece. 3,425,124, 2-4-69, Cl. 32-28.

Hoffmeister, Erich; and Loge, Hans. Chuck means for dental hand piece. 3,426,429, 2-11-69, Cl. 32-27.

Hoffmeister, Ernest W. Calculating device. 3,484,042, 12-16-69, Cl. 235-71.

Hoffmeister, Friedrich: *See—*
Aichinger, Gerd; Schutz, Siegismund; and Hoffmeister, Friedrich,3,431,257.
Schutz, Siegismund; and Hoffmeister, Friedrich,3,441,608.

Hoffmeyer, William R., to General Electric Company. Single-phase induction electric motor. 3,421,033, 1-7-69, Cl. 310-172.

Hoffsommer, Robert D., Jr.; Taub, David; and Wendler, Norman L., to Merck & Co., Inc.Process for producing halopropylidene-5H-dibenzo[a,d]cycloheptene. 3,454,656, 7-8-69, Cl. 260-649.

Hofheinz, Karlheinz: *See—*
Tauchert, Klaus; Munster, Horst; Hettich, Bernhard; Konig, Gerhard; Hofheinz, Karlheinz; and Kade, Peter,3,482,511.

Hofler, Leonhard: *See—*
Meyer, Christian, 3,481,069.

Hofler, Willy. Apparatus for automatically determining the total pitch error of gears or the like. 3,461,456, 8-12-69, Cl. 346-49.

Hofliger & Karg: *See—*
Bischoff, Karl, 3,469,364.
Wolf, Otto; and Weller, Otto, 3,429,426.

Hofman, Petruo S.: *See—*
van der Stelt, Cornelis; and Hofman, Petruo S.,3,452,053.

Hofman, Petrus S.: *See—*
van der Stelt, Cornelis; and Hofman, Petrus S.,3,462,447.

Hofman, Theophile: *See—*
Delassus, Marcel; Devaux, Richard; and Hofman, Theophile,3,469,945.

Hofmann, Albert: *See—*
Stadler, Paul; Troxler, Franz; and Hofmann, Albert,3,422,110.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert,3,428,639.

Hofmann, Albert; and Troxler, Franz, to Sandoz Ltd., (also known as Sandoz A.G.). α-(N-alkyl-N-3,3-diphenyl propylaminomethyl)-indanmethanols and the salts thereof. 3,450,763, 6-17-69, Cl. 260-570.
Troxler, Franz; and Hofmann, Albert,3,471,515.
Troxler, Franz; and Hofmann, Albert,3,479,371.

Hofmann, Charles F., to Westinghouse Electric Corporation. Crack-resistant casting composition. 3,434,087, 3-18-69, Cl. 336-96.

Hofmann, Charles F.; and Keto, August I., to Westinghouse Electric Corporation. Cast electrical bushing. 3,433,893, 3-18-69, Cl. 174-153.

Hofmann, Gottfried Gerhard Wilhelm: *See—*
Bassing, Friedrich Wilhelm; and Hofmann, Gottfried Gerhard Wilhelm,3,441,058.

Hofmann, Hans Dieter: *See—*
Gey, Werner; and Hofmann, Hans Dieter,3,439,041.

Hofmann, Hansdieter; Corsepius, Horst; and Kyber, Manfred, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrienlagen. Process for the purification of τ-caprolactam. 3,485,820, 12-23-69, Cl. 260-239.3
Heimann, Walter; and Hofmann, Hans,3,458,379.

Hofmann, Hans, to Sulzer Brothers Limited. Crosshead-type internal combustion piston engine having liquid-cooled pistons. 3,444,844, 5-20-69, Cl. 123-41.36

Hofmann, Hermann Alfred Otto. Photogrammetric affine plotters. 3,464,761, 9-2-69, Cl. 350-136.

Hofmann, Hermann Pankraz: *See—*
Naarmann, Herbert; Hofmann, Hermann Pankraz; and Kastning, Ernst-Guenther,3,454,538.

Hofmann, Horst: *See—*
Ciriack, Gunter; Eckert, Georg; and Hofmann, Horst,3,453,479.

Hofmann, John E.: *See—*
Carter, James L.; and Hofmann, John E.,3,475,189.

Hofmann, Judson A., to Zenith Radio Corporation. Video signal noise cancellation circuit. 3,453,386, 7-1-69, Cl. 178-7.3

Hofmann, Karl, to Condux-Werk Herbert A. Merges K.G. Feeding device. 3,458,143, 7-29-69, Cl. 241-186.
Hofmann, Ludwig. Tensioning and securing device for load securing straps. 3,449,798, 6-17-69, Cl. 24-71.
Hofmann, Paul; and Peterlein, Karl, to Gelsenberg Benzin Aktiengesellschaft. Preparation of 1,2,4-trimethyl-5- isopropylbenzene. 3,435,091, 3-25-69, Cl. 260-671.
Hofmann, Peter; and Guth, Christian, to Ciba Limited. Process for the production of fine porous coatings on textiles with preparations containing a polymer and microcapsules. 3,449,160, 6-10-69, Cl. 117-135.5
Hofmann, Ulrich. Container for knitting machine needles. 3,452,859, 7-1-69, Cl. 206-17.
Hofmann, Wilfried, to Agfa-Gevaert Aktiengesellschaft. Apparatus for manipulating diapositives. 3,473,871, 10-21-69, Cl. 353-116.
Hofmeier, Hermann: *See—*
Huff, Karl; and Hofmeier, Hermann,3,445,561.
Hofmeier, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Insulated power cables. 3,429,983, 2-25-69, Cl. 174-110.
Hofmeister Co.: *See—*
Hofmeister, Maurice H.; and Komperda, Joseph W., 3,426,668.
Hofmeister, Ernst: *See—*
Siebertz, Karl; and Hofmeister, Ernst,3,487,272.
Hofmeister, Konrad J.; and Olcsan, Louis J., Jr., to Jones & Laughlin Steel Corporation. Photodiodes and heat sensitive resistors in series controlling the same circuit. 3,428,813, 2-18-69, Cl. 250-209.
Hofmeister, Konrad J.; and Sylvester, Robert A., to Jones & Laughlin Steel Corporation. Length measurer with plurality of photocells which are sequentially gated. 3,428,817, 2-18-69, Cl. 250-219.
Hofmeister, Maurice H.; and Komperda, Joseph W., to Hofmeister Co. Louvered valve. 3,426,668, 2-11-69, Cl. 98-41.
Hofmeister, Russell N., to Herter's Inc. Animal trap. 3,421,251, 1-14-69, Cl. 43-92.
Hofmeister, Russell N., to Herter's Inc. Bow string with improved whipping thread wrap. 3,444,853, 5-20-69, Cl. 124-30.
Hofmeyer, Alloyd J. Circulating heater. 3,433,212, 3-18-69, Cl. 126-110.
Hofrichter, Charles H.; Haggerty, Thomas I.; and Zimmer, Gerald W., to Olin Mathieson Chemical Corporation. Polyurethane sponge and process therefor. 3,463,745, 8-26-69, Cl. 260-2.5
Hofrichter, Wilhelm, to Vornbaumen, E., & Co. Method and machines for twisting together strands of material. 3,431,718, 3-11-69, Cl. 57-59.
Hofstein, Steven R., to Radio Corporation of America. Insulated gate field effect transistor. 3,434,021, 3-18-69, Cl. 317-235.
Hofteig, Haldor J.: *See—*
Wolfe, Walter W.; and Hofteig, Haldor J.,3,429,299.
Hoftiezer, Henry Wilbert: *See—*
Adams, James William; and Hoftiezer, Henry Wilbert,3,467,609.
Hofton, James; Vickers, William Henry; and Woodward, Anthony, to British Industrial Plastics Limited, mesne. Thermal stability treatment of oxymethylene polymers with ethylene imine group-containing compounds. 3,428,608, 2-18-69, Cl. 260-67.5
Hofton, Martin Richard, to British Nylon Spinners Limited. Polyamide containing dispersed polyolefin and fatty dispersing agent. 3,471,426, 10-7-69, Cl. 260-23.
Hofvendahl, Herbert E. Furnace blower installation. 3,486,688, 12-30-69, Cl. 230-235.
Hogan Faximile Corporation: *See—*
Lieblich, Irving, 3,444,055.
Sparling, Arthur J., 3,453,040.
Hogan, James J., to Goodyear Aerospace Corporation. Electronic area correlator tube. 3,483,421, 12-9-69, Cl. 315-10.
Hogan, John Cotter, to United States of America, Atomic Energy Commission. Molybdenum oxide film resistor and the method of making same. 3,474,007, 10-21-69, Cl. 204-14.
Hogan, John F., Jr.: *See—*
Di Marco, Gabriel Robert; Hogan, John F., Jr.; Schulman, Hyman L.; and Strandskov, Frede B.,3,443,972.
Hogan, John P.; and Kitchen, Alonzo G., to Phillips Petroleum Company. Polymerization process and catalyst. 3,476,724, 11-4-69, Cl. 260-88.2
Hogan, John W.: *See—*
Kronfeld, Leonard E.; and Hogan, John W.,3,484,565.
Hogan, Patrick J.: *See—*
Walton, Leonard; and Hogan, Patrick J.,3,442,110.
Hogan, Thomas Howard: *See—*
Miller, Douglas D.; Hogan, Thomas Howard; and Inman, Richard B.,3,438,483.
Hogan, Walter H., to Cryogenic Technology, Inc. Rapid pump-down vacuum chambers incorporating cryopumps. 3,485,054, 12-23-69, Cl. 62-55.5
Hogan, Walter H.: *See—*
Stuart, Robert W.; and Hogan, Walter H.,3,430,455.
Hogan, William J., to Sybron Corporation, mesne. Patient rotator basket for X-ray machine. 3,482,094, 12-2-69, Cl. 250-55.
Hoganas-Billesholms Aktiebolag: *See—*
Thafvelin, Karl Gunnar; Wahlberg, Yngve; and Bockstiegel, Georg Heinrich Artur Gerhard, 3,462,260.
Hogarth, Harold P. Portable straightener for elongate members. 3,456,467, 7-22-69, Cl. 72-32.
Hogberg, Lars-Gunnar: *See—*
Eriksson, Erik Helmer; Frisk, Olof Edvin; and Hogberg, Lars-Gunnar,3,443,610.
Hoge, Henri H., to Summit Electronics Incorporated. Wheel slip detection system. 3,437,896, 4-8-69, Cl. 318-52.
Hoge, Henri H., to Cambridge Scientific Industries, Incorporated. Solid state vibrator. 3,480,851, 11-25-69, Cl. 321-8.
Hogel, Joseph E., to Honeywell Inc. Control apparatus. 3,455,319, 7-15-69, Cl. 137-85.
Hogencamp, Harold C. Theft prevention device. 3,423,747, 1-21-69, Cl. 340-280.
Hoger, Herwig; and Kronacher, Hermann, to Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft. Preparation of white calcium cyanamide. 3,453,070, 7-1-69, Cl. 23-78.
Hogg, Christopher A., to British Oxygen Company Limited, The. Gas cartridge piercer and regulating valve. 3,459,331, 8-5-69, Cl. 222-5.
Hogg, Christopher A., to British Oxygen Company Limited, The. Dispensing valves. 3,474,940, 10-28-69, Cl. 222-402.20
Hogg, Eugene R.: *See—*
Simmons, Harold C.; Hogg, Eugene R.; and Kuhn, Roy C.,3,474,970.
Hogg, Gerald V. Apparatus for comminuting materials. 3,482,786, 12-9-69, Cl. 241-52.
Hogg, Heinrich: *See—*
Celio, Tino; and Hogg, Heinrich,3,467,475.
Hogg, James W.: *See—*
Duffin, George F.; and Hogg, James W.,3,462,272.
Hogg, Richard William: *See—*
Stillwell, Peter Frederic Thomas Cryer; Montgomery, Peter Murdo; and Hogg, Richard William,3,432,854.
Hogg, Walter R.: *See—*
Bloomfield, Leo B.; Hogg, Walter R.; Coulter, Wallace H.; and Dorman, Ervin L.,3,473,010.
Coulter, Wallace H.; and Hogg, Walter R.,3,439,267.
Coulter, Wallace H.; and Hogg, Walter R.,3,444,463.
Coulter, Wallace H.; and Hogg, Walter R.,3,444,464.
Marchesini, Cesare; Hogg, Walter R.; and Klein, Robert I.,3,424,897.
Hoglund Engineering and Manufacturing Company, Inc.: *See—*
Hoglund, Nils, 3,428,038.
Hoglund, Nils, 3,455,206.
Hoglund, Nils, 3,455,289.
Hoglund, Nils. Apparatus for forming contours. 3,425,320, 2-4-69, Cl. 90-13.
Hoglund, Nils, to Hoglund Engineering and Manufacturing Company, Inc. Apparatus for forming contours. 3,428,038, 2-18-69, Cl. 125-11.
Hoglund, Nils, to Hoglund Engineering and Manufacturing Company, Inc. Apparatus for rotatably supporting and moving a work piece relative to a fixed tool. 3,455,206, 7-15-69, Cl. 90-13.9
Hoglund, Nils, to Hoglund Engineering and Manufacturing Company, Inc. Apparatus for forming contours on work pieces. 3,455,289, 7-15-69, Cl. 125-11.
Hogrefe, Arthur F.: *See—*
Wilson, Louis; and Hogrefe, Arthur F.,3,421,067.
Hogue, Noel E.: *See—*
Andrea, John J.; Meier, James C.; and Hogue, Noel E.,3,420,990.
Hogue, Paul G.: *See—*
Welch, Russel A., Sr., 3,443,061.
Welch, Russel A., Sr., 3,443,062.
Hogue, Vernon D., to Texas Instruments, Incorporated. Vocal response synthesizer. 3,472,964, 10-14-69, Cl. 179-1.
Hogya, Bernard J.; and Tillis, William J., to FMC Corporation. Process of etching copper circuits. 3,476,624, 11-4-69, Cl. 156-13.
Hohbach, Dale J.: *See—*
Cone, Charles N.; Hohbach, Dale J.; and Smith, Harold A.,3,428,467.
Hohenberg, Rudolph, to Avco Corporation. Means for temperature compensating the response of an electromagnetic torquemeter. 3,465,581, 9-9-69, Cl. 73-136.
Hohenemser, Kurt H. Automatic control system for aircraft lifting rotor. 3,429,376, 2-25-69, Cl. 170-160.25
Hohenle, Hubert Zu: *See—*
Bensinger, Wolf-Dieter; Lamm, Heinz; and Hohenle, Hubert Zu,3,446,190.
Hohenstein, Robert M., to Singer-General Precision Inc. Linear electrostatic accelerometer. 3,446,079, 5-27-69, Cl. 73-517.
Hohl, John: *See—*
Cunningham, Ernest R.; and Hohl, John,3,447,280.
Hohl, Rudolf: *See—*
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef,3,484,789.
Hohl, Willard R.; and Korpak, Charles, to General Motors Corporation. Process for making nodular iron. 3,459,541, 8-5-69, Cl. 75-130.

Hohlfeld, Harald: *See—*
Schuller, Wolfgang; and Hohlfeld, Harald,3,425,204.
Hohlfelder, F., Company, The: *See—*
Hohlfelder, Harvey F., Jr.; and Darash, Nicholas P., 3,424,319.
Hohlfelder, Harvey F., Jr.; and Darash, Nicholas P., to Hohlfelder, F., Company, The. Hydraulic indexing and clamping fixtures. 3,424,319, 1-28-69, Cl. 214-1.
Hohman, Ross W.: *See—*
Rosenberg, William; Crafton, Charles J.; Johnson, Frederick Douglas; and Hohman, Ross W.,3,439,590.
Hohmann, Frank G.; Matthias, George D.; Tino, Joseph R.; and Wellmann, Gerhard F., to Allied Chemical Corporation. Uniformly blow molded container neck. 3,461,491, 8-19-69, Cl. 18-5.
Hohmann, Lawrence A., Jr.: *See—*
Abbott, Henry H.; Hohmann, Lawrence A., Jr.; and Wells, George W.,3,420,963.
Hohmann, Walter: *See—*
Weinand, Claus; Von Oertzer, Klaus; and Hohmann, Walter,3,436,410.
Hohn, Helmut: *See—*
Nallinger, Friedrich K. H.; Muller, Alfred H.; Wirlitsch, Roland; and Hohn, Helmut,3,420,327.
Hohne, Gerd, to Bosch, Robert, GmbH. Ignition arrangement for internal combustion engines. 3,447,522, 6-3-69, Cl. 123-149.
Hohne, Gerd, to Bosch, Robert, G.m.b.H. Transistorized ignition system for internal combustion engines. 3,482,560, 12-9-69, Cl. 123-148.
Hohner Matth AG: *See—*
Zacharias, Ernst, 3,447,410.
Hohwart, George, to Woodworth, N. A., Company. Automated gear chuck. 3,455,567, 7-15-69, Cl. 279-110.
Hohwart, George, to Woodworth, N. A., Company. Replaceable jaw inserts. 3,459,433, 8-5-69, Cl. 279-123.
Hohwart, George, to Woodworth, N. A., Company. Universal power chuck. 3,472,526, 10-14-69, Cl. 279-106.
Hohwart, George, to Woodworth, N. A., Company. Gear pin with pull-back action. 3,479,042, 11-18-69, Cl. 279-123.
Hohwart, George; and Toth, Paul, to Woodworth, N. A., Company. Ball chuck with roll-back bearing. 3,423,098, 1-21-69, Cl. 279-109.
Hohwart, George; and Toth, Paul, to Woodworth, N. A., Company. Fixture mounting assembly. 3,460,847, 8-12-69, Cl. 279-4.
Hoiberg, Arnold J.; Orsulak, John P.; and Bick, Philip C., to Flintkote Company, The. Method of forming protective coatings from clay-type emulsions of bituminous material. 3,443,981, 5-13-69, Cl. 117-62.
Hoiseth, Roland L.; and Daniels, Howard L., to Sperry Rand Corporation. Keyboard operated repeat circuit for a data processing system's operator control unit. 3,436,735, 4-1-69, Cl. 340-172.5
Hoisve, Harold V.; and Filho, Francisco Muniz, to McGraw-Edison Company. Threehead sandwich press. 3,484,965, 12-23-69, Cl. 38-15.
Hoisve, Harold V.; and Strike, Nicholas L., to McGraw-Edison Company. Steam-air pants topper. 3,421,668, 1-14-69, Cl. 223-73.
Hojnos, Jan; and Grancic, Ivan, to Prvni Brnenska Strojirna Zavody Klementa Gottwalda, narodni podnik. Mixing arrangement. 3,471,263, 10-7-69, Cl. 23-252.
Hojo, Takeshi, to Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.). Meridian detector. 3,452,444, 7-1-69, Cl. 33-226.
Hojyo, Iwajiro, to Kinyosha Company Limited. Preshrinking machine for fabrics and the like. 3,469,292, 9-30-69, Cl. 26-69.
Hojyo, Kazuya. Apparatus for automatically electroplating various articles with chromium. 3,425,926, 2-4-69, Cl. 204-213.
Hok-Shou, Ting, to Kader Industrial Company Limited. Mechanical lap counter for slot guided toy vehicles. 3,476,389, 11-4-69, Cl. 273-86.
Hokama, Takeo: *See—*
Scardiglia, Frank; and Hokama, Takeo,3,484,422.
Scardiglia, Frank; and Hokama, Takeo,3,485,807.
Hokanson, Carl G., Sr.; and Evans, Richard A., to Lear Siegler, Inc. Heating apparatus including a heat exchanger and turbulence creating impeller. 3,481,322, 12-2-69, Cl. 126-247.
Hokari, Hiroshi: *See—*
Takao, Susumu; and Hokari, Hiroshi,3,436,436.
Takao, Susumu; and Hokari, Hiroshi,3,436,438.
Hoke, Donald I., to Lubrizol Corporation, The. Oil-soluble nitrogen composition. 3,429,674, 2-25-69, Cl. 44-58.
Hoke, Earl M. Bale compacting attachment for balers. 3,424,081, 1-28-69, Cl. 100-192.
Hoke, Howard L., deceased (by Hoke, Jean K., executrix); and Halterman, James W., to Dresser Industries, Inc. Repair sleeve. 3,466,069, 9-9-69, Cl. 285-348.
Hoke, Howard L.: *See—*
Halterman, James W.; and Hoke, Howard L.,3,470,916.
Hoke, Leander H., Jr., to Philco-Ford Corporation. Transistor amplifying circuit having high input impedance and temperture-stabilized output potential. 3,447,092, 5-27-69, Cl. 330-24.
Hoke Manufacturing Company, Inc.: *See—*
Teeters, Wilbur O., 3,433,508.
Teeters, Wilbur O., 3,445,128.
Hokkeling, Pieter: *See—*
Berghout, Cornelis Willem; Hokkeling, Pieter; and Luteijn, Anthonie Izaak,3,421,207.
Hokkinen, Paul K., to Ferranti-Packard Electric Limited. Drive means for tape or ribbonlike material. 3,428,233, 2-18-69, Cl. 226-178.
Hokushin Electric Works, Limited: *See—*
Nakamatsu, Yoshio, 3,421,673.
Hol-Mark Machine Corporation: *See—*
Musican, Solomon, 3,483,818.
Holaday Industries, Inc.: *See—*
Holaday, Reed E., 3,462,575.
Holaday, Reed E., to Holaday Industries, Inc. Microwave heating device. 3,462,575, 8-19-69, Cl. 219-10.55
Holan, George, to Monsanto Chemicals (Australia) Limited. 2-Trichloromethylbenzoxazole as a herbicide. 3,423,200, 1-21-69, Cl. 71-88.
Holan, George, to Monsanto Chemicals (Australia) Limited. 1-(4-Nitrophenyl)-1-(4'-nitrophenyl)-2,2-dihalo- cyclopropane. 3,481,993, 12-2-69, Cl. 260-646.
Holan, George; and Ennis, Brian Colwell, to Monsanto Chemicals (Australia) Limited. Anthelmintic compositions and methods employing 2-(2'-thiazolin-2'-yl)-benzimidazoles. 3,471,620, 10-7-69, Cl. 424-270.
Holan, George; and Samuel, Eva L., to Monsanto Chemicals (Australia) Limited. 2-Tri-(mixed) halomethyl benzimidazoles. 3,448,115, 6-3-69, Cl. 260-309.2
Holan, George; and Samuel, Eva L., to Monsanto Chemicals (Australia) Limited. Preparation of 2-azolin-2'-yl-benzimidazoles. 3,472,863, 10-14-69, Cl. 260-306.7
Holan, George; and Samuel, Eva Lea, to Monsanto Chemicals (Australia) Limited. Anthelmintic compositions and methods employing 2- (20-oxazolin-20-yl)-benzimidazoles. 3,457,351, 7-22-69, Cl. 424-272.
Holan, George; and Samuel, Eva Lea, to Monsanto Chemicals (Australia) Limited. Anthelmintic 2-imidazolin-2-yl-benzimidazoles. 3,482,022, 12-2-69, Cl. 424-273.
Holava, Henry Michael, Jr.; and Partyka, Richard Anthony, to Bristol-Myers Company. 3-Hydrazinobenzo[h]cinnolines and 3-hydrazinobenzocyclohepta-[5,6,-c]pyridazines. 3,464,988, 9-2-69, Cl. 260-250.
Holberg, Dieter E., to United States of America, Army. Bistatic radar configuration not requiring reference-data transmission. 3,487,462, 12-30-69, Cl. 343-12.
Holbert, James M.: *See—*
Beekman, Stewart M.; Holbert, James M.; and Schmank, Horst W.,3,444,292.
Schmank, Horst W.; Beekman, Stewart M.; and Holbert, James M.,3,444,226.
Holbert, Marvin L., Jr.; and Slack, John, to Gray Tool Company. Wellhead and seal arrangement. 3,478,822, 11-18-69, Cl. 166-88.
Holbrook, Franklin K.: *See—*
Rickard, Donn J.; Holbrook, Franklin K.; Bushman, Ronald C.; Preston, Warren O.; and Gill, Thomas H.,3,448,682.
Holbrook, George W.; and Pierce, Ogden R., to Dow Corning Corporation. Pentahalophenylethylsilanes and siloxanes. 3,423,445, 1-21-69, Cl. 260-448.2
Holbrook, James A.: *See—*
Husted, David W.; and Holbrook, James A.,3,459,472.
Holcomb, Gaylord E. Automatic line rewinder. 3,433,431, 3-18-69, Cl. 242-107.
Holcomb, Orla L., Jr., to Bendix Corporation, The. Disc element construction for disc brake. 3,456,768, 7-22-69, Cl. 188-218.
Holcomb, Richard H., to General Electric Company. Lead-in conductor for electrical devices. 3,420,944, 1-7-69, Cl. 174-17.05
Holcombe, Gordon B., to Industrial Covers, Inc. Inflatable escape chute and method of manufacture. 3,470,991, 10-7-69, Cl. 193-25.
Holcroft, Donald E.: *See—*
Cole, Richard I.; Holcroft, Donald E.; Milligan, Edward A.; and Greenhalgh, Samuel,3,432,936.
Hold, Peter: *See—*
Cournoyer, George R.; and Hold, Peter,3,481,016.
Holdeman, John W., to Borg-Warner Corporation. Wheel drive mechanism. 3,459,070, 8-5-69, Cl. 74-705.
Holden, Artemas F. Method for brazing aluminum radiators. 3,456,331, 7-8-69, Cl. 29-471.1
Holden, Arthur S., Jr.; and Stuenkel, Leon H., to Coe Manufacturing Company, The. Veneer dryer with plural treating zones. 3,474,544, 10-28-69, Cl. 34-1.
Holden, Edward F. Apparatus for automatically feeding fish. 3,465,719, 9-9-69, Cl. 119-5.
Holden, George R.; and Smith, Joseph R., Jr., to United States of America, National Aeronautics and Space Administration. Balanced bellows spirometer. 3,420,225, 1-7-69, Cl. 128-2.08
Holden, Harold H., to Continental Oil Company. Apparatus for removing paraffin from crude oil. 3,425,913, 2-4-69, Cl. 196-14.5
Holden, Herbert K.: *See—*
Berger, Richard M.; Sproull, Reavis C.; and Holden, Herbert K.,3,455,766.

Holden, Herbert K., to American Filtrona Corporation. Seed-carrying devices. 3,456,386, 7-22-69, Cl. 47-56.
Holden, James R., to Automatic Electric Laboratories, Inc. Progressively switched magnetic storage devices. 3,452,339, 6-24-69, Cl. 340-174.
Holden, John C.: *See—*
Hyde, Walter E.; Farley, David L.; and Holden, John C.,3,422,900.
Holden, Kenneth G., to Smith Kline & French Laboratories. 1,2-Methylene-B-norsteroids. 3,449,434, 6-10-69, Cl. 260-586.
Holden, Kenneth G., to Smith Kline & French Laboratories. 6,6-Ethylene-1,2-methylenesteroids. 3,470,156, 9-30-69, Cl. 260-239.55
Holden, Kenneth G.; and Kerwon, James F., to Smith Kline & French Laboratories. 6,7-Methylene steroids, 3,462,465, 8-19-69, Cl. 260-397.4
Holden, Peter John: *See—*
Birt, David Edward; Gibson, Anthony Thomas; Holden, Peter John; and Webley, Reginald Sidney,3,439,109.
Holden, Robert B. Apparatus for vapor compression distillation of impure water. 3,423,293, 1-21-69, Cl. 202-172.
Holden, Robert B.: *See—*
Fuhrman, Nathan; Gordon, Emanuel; and Holden, Robert B.,3,429,699.
Holden, Robert Stuart. T-Fittings and method of making same. 3,451,113, 6-24-69, Cl. 29-157.
Holden, Roy J.: *See—*
Kasprzycki, Joseph T.; and Holden, Roy J.,3,450,066.
Holden, Thomas W. Reed type audio filter. 3,445,791, 5-20-69, Cl. 333-71.
Holden, William Darwin. Suspended railway system. 3,457,876, 7-29-69, Cl. 104-89.
Holderbaum, Karl-Heinz, to Schneider, Jos., & Co. Optical objective with optional diaphragm preselector. 3,466,994, 9-16-69, Cl. 95-64.
Holdrege, Charles Truman, to Bristol-Myers Company. 7-[D-α-amino-(acetamidophenylacetamido)]- cephalosporanic acids and derivatives thereof. 3,464,985, 9-2-69, Cl. 260-243.
Holdrege, Charles Truman, to Bristol-Myers Company. 6-(α-3-Acylureidophenylacetamido)-and 6-(α-3-acylureidothienylacetamido)- penicillanic acids. 3,479,339, 11-18-69, Cl. 260-239.1
Holdrege, Charles Truman, to Bristol-Myers Company. 6-(α-3-Acylthioureidophenylacetamido)-and 6- (α-3-acylthioureidothienylacetamido)-penicillanic acids. 3,481,922, 12-2-69, Cl. 260-239.1
Holdridge, Warren B. Method for cutting radii on workpiece. 3,447,245, 6-3-69, Cl. 33-185.
Holdstock, Norman G. Heat-sensitive latex. 3,484,394, 12-16-69, Cl. 260-3.
Holdsworth, John Frederick, to Scru-Fix Limited. Buttons. 3,474,504, 10-28-69, Cl. 24-90.
Holdt, Donald H., to Cambridge Scientific Industries, Incorporated. Electric safety razor with stationary cap and improved electromagnetic drive means. 3,452,435, 7-1-69, Cl. 30-45.
Hole, Marvin A.: *See—*
Baringer, Berlyn E.; Hole, Marvin A.; and Huber, John A.,3,451,237.
Holeczy, Julius; Schmiedl, Juraj; and Sehnalek, Frantisek, to Vyskumny ustav Kovu Panenske Brezany. Apparatus for the continuous production of converter copper. 3,459,415, 8-5-69, Cl. 266-11.
Holemann, Hans; Janson, Hans Georg; and Moeller, August, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for oxidizing metal salt solutions. 3,460,903, 8-12-69, Cl. 23-87.
Holes, William W.; and Libby, Edward L., to Holes-Webway Co., The. Album page with novel hinge assembly. 3,456,303, 7-22-69, Cl. 24-2.
Holes, William W.; and Libby, Edward L., to Holes-Webway Co., The. Loose-leaf binder. 3,467,479, 9-16-69, Cl. 402-13.
Holes, William W.; and Libby, Edward L., to Holes-Webway Co., The. Concealed binding and hinge means and cover. 3,485,564, 12-23-69, Cl. 402-13.
Holes-Webway Co., The: *See—*
Holes, William W.; and Libby, Edward L., 3,456,303.
Holes, William W.; and Libby, Edward L., 3,467,479.
Holes, William W.; and Libby, Edward L., 3,485,564.
Holfeld, Winfried T., du Pont de Nemours, E. I., and Company. Process for making piece-dyeable frieze carpets from heat-set multicomponent acrylic fiber yarn. 3,429,017, 2-25-69, Cl. 28-72.
Holiday, Allan D., to Phillips Petroleum Company. Method of removing catalyst poisoning impurities from a carrier stream. 3,453,343, 7-1-69, Cl. 260-676.
Holiday Inns of America, Inc.: *See—*
Joseph, Guy G.; and Teverbaugh, Robert K., 3,459,611.
Joseph, Guy G.; Teverbaugh, Robert K.; and Maniquis, Angelina A., 3,476,292.
Holister, Geoffrey Stanley; Luxmoore, Anthony Rodger; and Parish, Colin Clive, to United Kingdom Atomic Energy Authority. Strain measuring techniques. 3,453,739, 7-8-69, Cl. 33-27.
Holka, Thomas Carl; and Haddad, Charles J. Food cooking apparatus. 3,448,679, 6-10-69, Cl. 99-443.
Holka, Thomas C.: *See—*
Beyer, Gerald E.; and Holka, Thomas C.,3,468,576.
Beyer, Gerald E.; and Holka, Thomas C.,3,486,764.
Holken, Norbert: *See—*
Dommann, Gunther; and Holken, Norbert,3,455,113.
Holkesvick, Edgar E. Friction pull exercising device. 3,472,510, 10-14-69, Cl. 272-80.
Holl, Edward J. Adjustable bracing means for vertically disposed earth-shoring planking. 3,420,065, 1-7-69, Cl. 61-41.
Holl, Edward J. Earth shoring means. 3,466,874, 9-16-69, Cl. 61-39.
Hollabaugh, Ernest. Anti-smoking device. 3,482,580, 12-9-69, Cl. 131-178.
Hollabaugh, George R., to Mobil Oil Corporation. System for automatic injection of coolant into thermal recovery wells. 3,434,534, 3-25-69, Cl. 166-53.
Holladay, Harry P.; and Salyer, Ival O., to Monsanto Company. Ethylene/vinyl acetate polyblends with polymers of 1-olefins. 3,433,573, 3-18-69, Cl. 8-55.
Hollahan, John R., to Laboratory for Electronics, Inc. Plasma reaction system for reacting a gas with a non-gaseous material. 3,428,548, 2-18-69, Cl. 204-312.
Holland, Dewey G.; and Tamborski, Christ, to United States of America, Air Force. Fluoroaromatic compounds. 3,440,277, 4-22-69, Cl. 260-515.
Holland, Edward T., Jr.: *See—*
Pierson, Charles F.; Benjamin, John W.; and Holland, Edward T., Jr.,3,452,393.
Holland, Frank Stanley; Marsden, John Henry Edgar; and Pemberton, Denis, to Imperial Chemical Industries Limited. Amalgam reduction process for the production of adiponitrile. 3,458,559, 7-29-69, Cl. 260-465.8
Holland, Fred D., to Calcium Removal, Inc. Magneto-sonic disintegrator of diamagnetic material. 3,468,301, 9-23-69, Cl. 128-1.05
Holland, Frederick Anthony; McCrimlisk, Gerard Joseph; and Kelly, William A., to Lever Brothers Company. Process for the continuous production of fatty acid esters of hydroxy sulfonates. 3,420,857, 1-7-69, Cl. 260-400.
Holland, Gary R.: *See—*
Thomas, Patrick H.; and Holland, Gary R.,3,420,691.
Holland, Gerald F., to Pfizer, Chas., & Co., Inc. Lipid regulation with 5- (pyridyl)tetrazole derivatives. 3,435,115, 3-25-69, Cl. 424-263.
Holland, Gerald F., to Pfizer, Chas., & Co., Inc. Tetrazole derivatives. 3,448,107, 6-3-69, Cl. 260-250.
Holland, J. H., Company: *See—*
Holland, John H., 3,469,786.
Holland, John H., to Holland, J. H., Company. Fluid spraying apparatus. 3,469,786, 9-30-69, Cl. 239-126.
Holland, John P., to Frantz Manufacturing Company. Means for limiting axial movement in a hinge hanger assembly. 3,484,812, 12-16-69, Cl. 160-201.
Holland, John W.: *See—*
Murphy, Robert M.; Holland, John W.; and McDonald, Thomas M.,3,440,429.
Holland, Lawrence R., to Research Corporation. Product-type phase sensitive detector including a balanced impedance bridge having thermocouple load elements connected across opposite bridge arms. 3,450,992, 6-17-69, Cl. 324-106.
Holland, Lawrence: *See—*
Sykes, Neville B.; and Holland, Lawrence,3,472,290.
Holland, Norman F.: *See—*
Nutten, Warren D.; and Holland, Norman F.,3,453,994.
Holland, Raymond Prunty, Jr. Aircraft having energy-conserving means. 3,465,990, 9-9-69, Cl. 244-53.
Holland, Richard W. Closure connection means for a heat exchanger. 3,424,480, 1-28-69, Cl. 285-111.
Holland, Robert Barnsley; and Fowler, DeVere A., to Galigher Company, The. Fluid-actuated, anti-flutter, pinch-sleeve, throttling valve. 3,441,245, 4-29-69, Cl. 251-5.
Holland, Thomas E., to Technical Operations, Incorporated. Optical instruments of the interference type. 3,432,239, 3-11-69, Cl. 356-112.
Holland, Thomas M., Jr.: *See—*
Conklin, Clement L., Jr.; and Holland, Thomas M., Jr.,3,465,648.
Holland, Victor B.; Propst, Merton C., Jr.; and Wyatt, Harold W., to Cannon Mills Company. Alkali-soluble cellulose acetate textile material and process for producing same. 3,425,788, 2-4-69, Cl. 8-129.
Holland-Rantos Company, Inc.: *See—*
Leininger, Robert I.; Spencer, Joy L.; and Vorys, Nichols D., 3,454,004.
Weinberger, Royal I.; and Lusch, Nicholas, 3,477,200.
Hollandbeck, Raymond F.: *See—*
Abruzzo, Joseph; Cox, Andrew P., Jr.; and Hollandbeck, Raymond F.,3,460,060.
Hollander, Jerome: *See—*
Trischler, Floyd D.; and Hollander, Jerome,3,463,761.

Hollander, John Michael, to E.M.S. Electrical Products Limited. Hanger for an inverted channel section insulating sheath containing an electrical conductor. 3,436,043, 4-1-69, Cl. 248-63.
Hollander, John Michael, to E.M.S. Electrical Products Limited. Electrical distribution systems. 3,475,567, 10-28-69, Cl. 191-22.
Hollander, Milton Bernard: *See—*
Blum, Robert Morris; and Hollander, Milton Bernard,3,484,926.
Hollander, Milton Bernard, to Caterpillar Tractor Company, mesne. Friction welding. 3,435,509, 4-1-69, Cl. 29-470.3
Hollander, Milton Bernard, to Caterpillar Tractor Company, mesne. Friction welding. 3,473,214, 10-21-69, Cl. 29-470.3
Hollander, William L., to Chance, A. B., Company. Method and apparatus for anchoring offshore pipelines. 3,427,812, 2-18-69, Cl. 61-72.3
Hollands, Daniel H., to General Dynamics Corporation. Data communication system. 3,462,736, 8-19-69, Cl. 340-146.1
Hollandsche Beton Maatschappij N.V.: *See—*
Jansz, Joost W., 3,431,986.
Hollberg, Herbert John: *See—*
Hackman, Edward Jerome; and Hollberg, Herbert John,3,453,428.
Holle, Arthur W. Flooring material of unsaturated polyester resin aluminum oxide grit and catalyst and methods of application. 3,433,761, 3-18-69, Cl. 260-40.
Holle, Werner: *See—*
Broschke, Heinrich; Holle, Werner; and Wiessner, Willi,3,427,946.
Hollenbaugh, Roger C.: *See—*
Laughlin, Charles R., Jr.; Hilton, Gay E.; Lavigne, Richard C.; and Hollenbaugh, Roger C.,3,471,856.
Hollenbeck, Clifford M., to Red Arrow Products Corporation, mesne. Preparation and use of a smoke-flavored edible oil. 3,480,446, 11-25-69, Cl.
Hollenbeck, Clifford M.; and Anderson, Robert E., to North American Corporation, mesne. Malt pellets. 3,446,708, 5-27-69, Cl. 195-70.
Hollenbeck, Clifford M.; and Kochorosky, Ned W., to North American Corporation, mesne. Coating malt with gelatinized starch. 3,446,707, 5-27-69, Cl. 195-70.
Hollenberg, Jowl W., to Singer Company, The. Transverse flow blowers having controlled secondary flows. 3,441,201, 4-29-69, Cl. 230-47.
Hollendieck, Hans; Meier, Hans Justus; and Rutzen, Erich Adolf Wilhelm, to Vereinigte Flugtechnische Werke G.m.b.H. VTOL aircraft. 3,462,099, 8-19-69, Cl. 244-55.
Holler, Howard V.; and Youngman, Edward A., to Shell Oil Company. Polymerization process and products. 3,481,914, 12-2-69, Cl. 260-91.7
Holley Carburetor Company: *See—*
Alberani Julius, 3,452,775.
Lockwood, Leon J., 3,434,347.
Londal, Ralph K., 3,434,395.
Saussele, Charles W.; and Bettoni, Eugene C., 3,430,437.
Schneider, Alfred; Shunn, William F.; and Roeske, Paul W., 3,434,462.
Spitsbergen, Merlin D.; and Ranke, Edward K., 3,469,395.
Thompson, Lionel D., 3,438,327.
Thompson, Lionel D.; and Roznіecki, Edward J., 3,442,456.
Zaske, Arthur P., 3,434,341.
Zaske, Arthur P., 3,456,500.
Holley, Charles H.: *See—*
Shartrand, Allan C.; Holley, Charles H.; and Archibald, James B.,3,461,329.
Holley, John D., to Kershaw Manufacturing Co., Inc. Apparatus for positioning crossties. 3,437,052, 4-8-69, Cl. 104-9.
Holley, John D.; and Martinez, Antonio H., to Kershaw Manufacturing Company, Inc. Railroad track cleaning apparatus. 3,426,379, 2-11-69, Cl. 15-55.
Holliday, George E., to International Telephone and Telegraph Corporation,mesne. Capacitive voltage divider. 3,423,669, 1-21-69, Cl. 323-79.
Holliday, Sherman C.: *See—*
Mustain, George V.; and Holliday, Sherman C.,3,473,521.
Hollies, Norman R. S.: *See—*
Getchell, Nelson F.; and Hollies, Norman R. S.,3,472,606.
Hollinger, Roderich; and Wendtlandt, Wolf, to Osterreichische Stickstoffwerke Aktiengesellschaft. Basicsubstituted dithienylmethyl- and thienylphenylmethyl- ethers and a process of making same. 3,433,804, 3-18-69, Cl. 260-332.3
Hollinger, Roderich; and Wendtlandt, Wolf, to Osterreichische Stickstoffwerke Aktiengesellschaft. 1,1-Diphenyl-1-lower alkoxy-3-or-4-amino-alkanes and the salts thereof. 3,441,602, 4-29-69, Cl. 260-501.12
Hollingshead, Donald K. Safety enclosure and cab for tractors. 3,451,713, 6-24-69, Cl. 296-28.
Hollingshead, James K.: *See—*
Brosious, Daniel R.; and Hollingshead, James K.,3,422,272.
Hollingsworth & Vose Company: *See—*
Foster, Andrew McMechan, 3,441,472.
Hollingsworth, Ashley James, to Litton Precision Products, Inc. Method and apparatus for blowing cores using microwave energy. 3,429,359, 2-25-69, Cl. 164-37.
Hollingsworth, Clinton A.; and Sap, Bobby L., to Borden, Inc. Phosphate flotation. 3,454,159, 7-8-69, Cl. 209-3.
Hollingsworth, Clinton Allen; and Sapp, Bobby L., to Borden Company, The. Ore flotation method. 3,421,621, 1-14-69, Cl. 209-166.
Hollingsworth, Frank H.: *See—*
Klimmek, Norman; Melill, Joseph; King, Julian P., Jr.; Lorenz, Roy H.; and Hollingsworth, Frank H.,3,462,628.
Hollingsworth, John D. Method of coiling metallic clothing and coil produced thereby. 3,442,375, 5-6-69, Cl. 206-59.
Hollingsworth, Winfred O., to United States Steel Corporation. Device for plugging a passageway. 3,425,733, 2-4-69, Cl. 294-19.
Hollins, Gerald B., to National Cash Register Company, The. Integrating circuits with gating and resetting provisions. 3,465,167, 9-2-69, Cl. 307-229.
Hollinshead, Albert: *See—*
Pipes, George R.; and Hollinshead, Albert,3,448,534.
Hollis, Alton R. Retrieval and walking aid. 3,425,734, 2-4-69, Cl. 294-19.
Hollis, Clinton R., to International Paper Company. Machine for cutting flat flexible multiwall tubing. 3,468,202, 9-23-69, Cl. 83-175.
Hollis, Frank, Jr.; and Tressler, Charles Jay, Jr., to General Foods Corporation. Product and process for producing a dripless frozen confection without overrun. 3,483,001, 12-9-69, Cl. 99-136.
Hollis, Oscar Le Roy, to Dow Chemical Company, The. Article of manufacture for making chromatographic separations. 3,458,976, 8-5-69, Cl. 55-386.
Hollis, Sydney G.: *See—*
Hazlehurst, Philip Geoffrey; Hollis, Sydney G.; and Phillips, Bryan F.,3,459,407.
Hollis, Walter W.: *See—*
Marasco, Paul M.; and Hollis, Walter W.,3,459,478.
Hollister Incorporated: *See—*
Hasson, Hasan M., 3,467,089.
Kariher, Donald H.; and Smith, Thomas W., 3,438,366.
Hollnagel, Harold E.: *See—*
Hollnagel, Harold S.; and Hollnagel, Harold E.,3,456,767.
Hollnagel, Harold S.; and Hollnagel, Harold E.,3,463,274.
Hollnagel, Harold S.; and Hollnagel, Harold E., to Kelsey-Hayes Company, mesne. Hydraulically released, spring set, fail safe disk brake. 3,456,767, 7-22-69, Cl. 188-170.
Hollnagel, Harold S.; and Hollnagel, Harold E., to Kelsey-Hayes Company, mesne. Disk brake assembly and mounting means therefor. 3,463,274, 8-26-69, Cl. 188-73.
Holloman, Charles J., to Trans-Lux Corporation. Display apparatus. 3,482,344, 12-9-69, Cl. 40-28.
Holloway, Albert L., to Page Communications Engineers, Inc. Milling machine for making spiral conical antenna feed. 3,481,249, 12-2-69, Cl. 90-11.64
Holloway, Don C., to Hough Manufacturing Corporation. Acoustical operable panel arrangement with removable panel covers. 3,450,185, 6-17-69, Cl. 160-199.
Holloway, Francis H.: *See—*
Anderson, John E.; Holloway, Francis H.; and Steen, William A.,3,469,948.
Holloway, Fred Ward, Jr.: *See—*
Collins, Herbert E.; and Holloway, Fred Ward, Jr.,3,425,379.
Holloway, James C.: *See—*
Ireland, John W.; and Holloway, James C.,3,457,636.
Holloway, Joseph H., to Hewlett-Packard Company, mesne. Atomic beam tube having an improved coaxial cavity. 3,422,456, 1-14-69, Cl. 250-41.3
Holloway, Joseph H.: *See—*
Kern, Robert H.; and Holloway, Joseph H.,3,450,876.
Holloway, Richard A.: *See—*
Recio, Orlando; Holloway, Richard A.; Lancaster, Ronald L.; Jones, Dennis J.; and Motley, George R.,3,437,993.
Holloway, Richard D., to Huffman Manufacturing Company, The. Snow blade attachment. 3,422,553, 1-21-69, Cl. 37-50.
Holloway, Richard D.: *See—*
Silbereis, Joseph A.; Holloway, Richard D.; and Sadler, Kenneth B.,3,442,335.
Holloway, Robert L., to Automatic Sprinkler Corporation of America, mesne. Head harness. 3,457,564, 7-29-69, Cl. 2-8.
Holloway, Robert L., 'Automatic' Sprinkler Corporation of America, d/b/a Illuminating Building, the, mesne. Inhalation-exhalation valve. 3,480,033, 11-25-69, Cl. 137-102.
Holloway, Robert L., to Chisholm-Ryder Company, Inc. Bucket conveyer. 3,480,131, 11-25-69, Cl. 198-151.
Holloway, Thomas M., to Johnson Service Company. Fluid proportional controller. 3,461,896, 8-19-69, Cl. 137-81.5
Hollowell, James Sherman, to American Safety Equipment Corp. of California, mesne. Retraction device for vehicle safety belts. 3,425,646, 2-4-69, Cl. 242-107.11
Hollowood, Calvin T.: *See—*
Rose, Thomas P.; and Hollowood, Calvin T.,3,435,127.

Hollowood, Calvin T., to Burroughs Corporation. Ink formulation. 3,441,420, 429-69, Cl. 106-26.
Hollowood, Hugh B.: *See—*
Fortenbach, John H.; Hollowood, Hugh B.; and Mazanek, Henry E.,3,435,517.
Hollrock, Richard H.; and Barzda, Justin J., to Kaman Corporation. Atmospheric entry vehicle with stowed rotor. 3,428,271, 2-18-69, Cl. 244-17.13
Hollstein, Carl Paul, Jr., to International Business Machines Corporation. Electric energy amplifying circuit arrangements. 3,422,336, 1-14-69, Cl. 330-9.
Hollweg, Antonius J. F.: *See—*
Smit, Hendrikus Jan; Hollweg, Antonius J. F.; and Jonker, Jacobus Johannes,3,485,030.
Holly, Harry H., to Hollymatic Corporation. Molding apparatus with expansion release. 3,479,687, 11-25-69, Cl. 17-32.
Holly, Harry H.: *See—*
Richards, Louis R.; and Holly, Harry H.,3,486,186.
Holly, James A., to Hollymatic Corporation. Molding device. 3,457,587, 7-29-69, Cl. 17-32.
Holly, James A., to Hollymatic Corporation. Molding apparatus with stacker means. 3,474,491, 10-28-69, Cl. 17-32.
Hollyday, James H., to Sperry Rand Corporation. Chopper and baler assembly. 3,474,603, 10-28-69, Cl. 56-24.
Hollyday, James H., to Sperry Rand Corporation. Chopper and baler assembly. 3,483,688, 12-16-69, Cl. 56-341.
Hollyday, William C., Jr.: *See—*
Henselman, Richard O.; Catto, Vincent P.; Williges, George R.; and Hollyday, William C., Jr.,3,458,430.
Tunkel, Norman; Hollyday, William C., Jr.; Bartlett, Jeffrey H.; and Gleason, Anthony H.,3,449,251.
Hollymatic Corporation: *See—*
Holly, Harry H., 3,479,687.
Holly, James A., 3,457,587.
Holly, James A., 3,474,491.
Richards, Louis R.; and Holly, Harry H., 3,486,186.
Holm, Allan P.; and Raggio, Louis J., to North American Rockwell Corporation. Blood oxygenation apparatus. 3,480,401, 11-25-69, Cl. 23-258.5
Holm, Bengt Lennart, to Kockums Mekaniska Verkstads Aktiebolag. Pneumatic diaphragm oscillators. 3,420,207, 1-7-69, Cl. 116-142.
Holm, Bengt Lennart, to Kockums Mekaniska Verkstads Aktiebolag. Sound transmitter for gaseous operating fluid. 3,429,294, 2-25-69, Cl. 116-142.
Holm, Carl E. Harvesting device for celery and the like plants. 3,460,326, 8-12-69, Cl. 56-119.
Holm, Christian, to Daimler-Benz Aktiengesellschaft. Amphibious commercial-type motor vehicle. 3,428,016, 2-18-69, Cl. 115-1.
Holm, Kurt Anders; and Hansson, Rune Einar, to Uddeholms Aktiebolag. Apparatus for the degreasing of articles by means of a solvent. 3,479,252, 11-18-69, Cl. 202-170.
Holm, LeRoy W., to Union Oil Company of California. Miscible flooding process using improved soluble oil compositions. 3,482,632, 12-9-69, Cl. 166-273.
Holm, Myron J.: *See—*
Hine, William Robert, Jr.; and Holm, Myron J.,3,461,029.
Zienty, Ferdinand B.; and Holm, Myron J.,3,420,870.
Zienty, Ferdinand B.; and Holm, Myron J.,3,420,872.
Zienty, Ferdinand B.; and Holm, Myron J.,3,468,940.
Zienty, Ferdinand B.; and Holm, Myron J.,3,478,020.
Holm, Per Tore, to Uddeholms Aktiebolag. Fastening means for an electrode in a so-called horizontal electrolytic cell. 3,455,810, 7-15-69, Cl. 204-225.
Holm, Roy T., to Shell Oil Company. Process for preparing prepolymers of unsaturated heterocyclic compounds and resulting products. 3,429,853, 2-25-69, Cl. 260-63.
Holm, Roy T., to Shell Oil Company. Prepolymers of unsaturated heterocyclic compounds and alpha-alkyl styrenes and process for preparing same. 3,440,233, 4-22-69, Cl. 260-88.1
Holm, Roy T., to Shell Oil Company. Hydroxy-containing imines, their preparation and use as curing agents. 3,484,408, 12-16-69, Cl. 260-47.
Holm, Sune Erik; and Jevbratt, Lars Torsten, to Jarnhs Elektriska Aktiebolag. Developing apparatus for photographic film, particularly X-ray film. 3,443,503, 5-13-69, Cl. 95-89.
Holm, Torkil, to Kefalas A/S. Dihydroanthracene compounds. 3,436,391, 4-1-69, Cl. 260-240.
Holm Tractor and Equipment Company: *See—*
Holm, William Z.; Clegg, Douglas; and Illia, Oliver C., 3,448,725.
Holm, Vernon C. F.; and Nolan, George J., to Phillips Petroleum Company. Olefin skeletal isomerization and catalyst. 3,448,164, 6-3-69, Cl. 260-683.2
Holm, William J., to Parks & Woolson Machine Co. Apparatus for setting fabric. 3,438,139, 4-15-69, Cl. 34-158.
Holm, William Z.; Clegg, Douglas; and Illia, Oliver C., to Holm Tractor and Equipment Company. Milking stall. 3,448,725, 6-10-69, Cl. 119-27.
Holman, Erwin W.; and Unrue, John E., Jr., to Bell Telephone Laboratories, Incorporated. Echo suppressor having means for eliminating the operationally induced noise fluctuations. 3,471,657, 10-7-69, Cl. 179-170.6
Holman, Rudolph George, to Voit, W. J., Rubber Corporation. Football with geodesic windings. 3,459,425, 8-5-69, Cl. 273-65.
Holman, Russell J.: *See—*
Brandon, Ronald E.; and Holman, Russell J.,3,429,557.
Holman, Thomas O., to View-Meter, Inc. Weighing device. 3,472,328, 10-14-69, Cl. 177-208.
Holmberg, Gote Eskil Yngve, to G.E.Y.-Patenter Aktiebolag. Three-point safety seat belt for motor cars. 3,420,573, 1-7-69, Cl. 297-389.
Holmberg, Gote Eskil Yngve, to G.E.Y.-Patenter Aktiebolag. Automatic strap retracting mechanisms for safety seat belts in cars. 3,430,885, 3-4-69, Cl. 242-107.4
Holmberg, Gote Eskil Yngve, to G.E.Y. Patenter Aktiebolag. Buckles for safety seat belts. 3,453,701, 7-8-69, Cl. 24-165.
Holmboe, Christian Fredrik: *See—*
Sommerud, Rolf Gunnar; Holmboe, Christian Fredrik; and De Lorme, James F.,3,447,081.
Holme, Bent Melchior Karlsen: *See—*
Leffers, Hans Ulrik; Valbjorn, Knud Vagn; and Holme, Bent Melchior Karlsen,3,484,822.
Holmen, Reynold E., to Minnesota Mining and Manufacturing Company. Long-chain bisphenol esters. 3,427,345, 2-11-69, Cl. 260-473.
Holmen, Reynold E., to Minnesota Mining and Manufacturing Company. Derivatives of bisphenolic substituted carboxylic acids. 3,433,766, 3-18-69, Cl. 260-47.
Holmen, Reynold E., to Minnesota Mining and Manufacturing Company. Derivatives of bisphenolic substituted carboxylic acids. 3,471,554, 10-7-69, Cl. 260-520.
Holmer, Charles B.; and Olsson, Kjell, to Seaquist Valve Company, Div. of Pittsburgh Railway Co. Valve testing machine. 3,448,854, 6-10-69, Cl. 209-72.
Holmes, Albert George: *See—*
Davies, William John; Leyland, Rowland Powell; and Holmes, Albert George,3,483,630.
Holmes, Allen B., to United States of America, Army. Self-regulating supersonic aerodynamic diffuser. 3,474,807, 10-28-69, Cl. 137-15.1
Holmes, Allen B., to United States of America, Army. Mechanical wall attachment diverter valve. 3,474,966, 10-28-69, Cl. 239-265.27
Holmes, Francis M.: *See—*
Daughenbaugh, Raymond S.; Hennessey, Charles A.; Holmes, Francis M.; and Lager, Samuel E.,3,449,747.
Holmes, Frank A.: *See—*
Jerila, Torsti T. T.; and Holmes, Frank A.,3,452,387.
Holmes, Frank C., to U.S. Baird Corporation, The. Adjustable cams. 3,459,066, 8-5-69, Cl. 74-568.
Holmes, George W., to Dow Chemical Company, The. Metal mercaptide curing agents for polyepoxide resins. 3,483,163, 12-9-69, Cl. 260-47.
Holmes, Harry J., to Thomas & Betts Corporation. Nonrotatable cable bundling strap. 3,461,510, 8-19-69, Cl. 24-16.
Holmes, Jack H., to Heintz, James C., Company, The. Tire mold clamping ring. 3,474,499, 10-28-69, Cl. 18-43.
Holmes, John Berwick: *See—*
McWilliam, Gordon L.; Dudley, Dennis W.; Grimwood, Terence J.; and Holmes, John Berwick,3,443,177.
Holmes, John F., to Avco Corporation. Method and apparatus for measuring the flow velocity of an electrolytic fluid by electrolysis. 3,450,984, 6-17-69, Cl. 324-30.
Holmes, Julian C., to United States of America, Navy. Automatic range selector employing plural amplifiers of different gains. 3,449,685, 6-10-69, Cl. 330-29.
Holmes, Lawrence, Jr. Typewriter baseplate enabling machine operation by and generation of electrical signal. 3,452,851, 7-1-69, Cl. 197-19.
Holmes, Lawrence, Jr. Communication system. 3,453,379, 7-1-69, Cl. 178-4.1
Holmes, Raiford L.; Moreau, Jerry P.; and Novak, Arthur F., to United States of America, Agriculture. Propargyl 2-bromodecanoate. 3,427,333, 2-11-69, Cl. 260-408.
Holmes, Richard N.: *See—*
Dobbs, Richard A.; and Holmes, Richard N.,3,481,427.
Holmes, Robert G., to General Electric Company. Electric manicurist power handle. 3,420,250, 1-7-69, Cl. 132-73.6
Holmes, Robert H.: *See—*
Ackerman, Daniel W.; and Holmes, Robert H.,3,442,430.
Ackerman, Daniel W.; Holmes, Robert H.; and Ragard, Phillip A.,3,455,493.
Holmes, Robert L.; and Tavelle, Charles L., to Raybestos-Manhattan, Inc. Method and apparatus for heat shrinking a plastic sleeve to a metal cored rubber roll. 3,481,805, 12-2-69, Cl. 156-86.
Holmes, Robert W.: *See—*
Rao, Bhaskara M. L.; and Holmes, Robert W.,3,463,670.

Holmes, Romayne E., Jr., to Kelsey-Hayes Company. Demountable rim wheel construction. 3,455,607, 7-15-69, Cl. 301-13.
Holmes, Ronald L. W., to Union Carbide Corporation. Continuous casting apparatus with inert gas protector. 3,439,735, 4-22-69, Cl. 164-259.
Holmes, Samuel J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,427,089.
Holmes, Wesley E.: *See—*
Miron, Simon; and Holmes, Wesley E.,3,426,091.
Holmes, William L.: *See—*
Cevallos, William H.; Holmes, William L.; and Rubinstein, Richard I.,3,467,749.
Holmes, William S.: *See—*
Gurgiolo, Arthur E.; and Holmes, William S.,3,420,791.
Holmgren, Marvin E., to Imperial-Eastman Corporation. Method of forming coiled plastic hose. 3,454,695, 7-8-69, Cl. 264-209.
Holmgren, Robert E.: *See—*
Hubbell, Dean S.; and Holmgren, Robert E.,3,475,141.
Holmquist, Howard Emil, to Du Pont de Nemours, E. I., and Company. Preparation of flame-resistant flexible foams from halogenated tolylene diisocyanate. 3,479,304, 11-18-69, Cl. 260-2.5
Holmquist, John A.: *See—*
Foote, Richard H.; and Holmquist, John A.,3,422,363.
Holms Industri A.-B.: *See—*
Sandstrom, Lennart Osten Evert, 3,471,003.
Holmsen, Theodore W.: *See—*
Mussell, Dorsey R.; and Holmsen, Theodore W.,3,421,880.
Holmsten, Richard B. Refrigeration system for ice rinks. 3,466,892, 9-16-69, Cl. 62-467.
Holmstrom, Georg Henry Sixten, to Forwarets Fabriksverk. Safety device for nose fuze. 3,472,167, 10-14-69, Cl. 102-73.
Holmstrom, Roy C., to Kelsey-Hayes Company. Wheel and method of manufacturing the same. 3,432,207, 3-11-69, Cl. 301-63.
Holmstrom, Sven Carl-Johan; Nilsson, Per-Erik; and Olson, Tore Bertil, to Aktiebolaget Bofors. Remote controlled spinning missile system. 3,443,774, 5-13-69, Cl. 244-3.12
Holobeam, Inc.: *See—*
Cook, Melvin S., 3,438,032.
Holoch, Klaus E., to General Electric Company. Stabilized polyphenylene ether compositions. 3,429,850, 2-25-69, Cl. 260-45.9
Holoch, Klaus E., to General Electric Company. Stable polyphenylene ether composition. 3,472,814, 10-14-69, Cl. 260-45.75
Holoch, Klaus E.; Erhardt, Peter F.; and Benner, Kenneth W., to General Electric Company. Stable polyphenylene ether composition. 3,465,062, 9-2-69, Cl. 260-874.
Holoch, Klaus E.; Katchman, Arthur; and Shufelt, Rainey A., to General Electric Company. Stabilized polyphenylene ether composition. 3,450,670, 6-17-69, Cl. 260-45.9
Holoch, Klaus E.; Raynor, David F.; and Haaf, William R., to General Electric Company. Polyphenylene ethers stabilized with combinations of nitrogen-containing stabilizers. 3,483,271, 12-9-69, Cl. 260-874.
Holonyak, Nick, Jr.: *See—*
Aldrich, Richard W.; and Holonyak, Nick, Jr.,3,476,993.
Holophane Company, Inc.: *See—*
Mahler, Edward, 3,486,069.
Miller, Kenneth F., 3,459,936.
Ruehl, Donald E., 3,466,437.
Stockwell, Bernard R.; and Van Steenhoven, Frank, 3,463,917.
Wince, Vearl S.; and Odle, Herbert A., 3,448,260.
Wince, Vearl S., 3,483,366.
Holroyd, Frank Edward; and Stepanski, Theodore J. Chuck. 3,433,492, 3-18-69, Cl. 279-2.
Holset Engineering Company Limited: *See—*
Hall, Jeffrey, 3,443,454.
Hall, Jeffrey, 3,479,907.
Holsinger, Jerry L.: *See—*
Drouilhet, Paul R., Jr.; and Holsinger, Jerry L.,3,444,468.
Holst, Albert J., Sr.; and Sparks, Thomas O. Pallet extractor hook. 3,452,963, 7-1-69, Cl. 254-131.
Holst, Albert Joseph, Sr.; and Sparks, Thomas O. Coin holder. 3,449,034, 6-10-69, Cl. 312-45.
Holst, Edward H.; and Kirkwood, George B., to Texaco Inc. Method of preparing calcium salts of bis (2-hydroxyalkylbenxyl) diaminoalkane lube oil composition. 3,472,773, 10-14-69, Cl. 252-42.7
Holste, Wallace H.; and Weston, Lloyd B. Method and apparatus for processing grain. 3,453,990, 7-8-69, Cl. 119-51.5
Holstead, Colin; Bailey, Joseph; and Jeffreys, Roy A., to Eastman Kodak Company. Photothermographic copying process. 3,455,687, 7-15-69, Cl. 96-27.
Holstein & Kappert Maschinenfabrik 'Phonix' GmbH:*See—*
Ciongwa, Joachim; and Sushardt, Wolfgang, 3,474,894.
Feuerstake, Heinrich, 3,429,715.
Hahn, Winfried, 3,486,637.
Hinxlage, Aloys, 3,455,350.
Lorken, Helmut, 3,455,434.
Quest, Karl; and Jordan, Heinz, 3,486,538.
Thesing, George; and Singe, Eckehard, 3,444,792.
Wolf, Hermann, 3,463,203.
Holstein, Frederick W., to Woodings-Verona Tool Works. Railroad journal box seal. 3,451,684, 6-24-69, Cl. 277-154.
Holstein, John H. Positive straight line article conveying mechanism. 3,454,142, 7-8-69, Cl. 198-162.
Holstein, Otto: *See—*
Deimling, Heinz; Holstein, Otto; and Heger, Ernst,3,448,212.
Holsworth, Richard M.: *See—*
Pierce, Percy E.; and Holsworth, Richard M.,3,423,351.
Holt, Arthur P., Jr., to Lockheed Aircraft Corporation. Synthetic beam sharpening system. 3,449,745, 6-10-69, Cl. 343-6.5
Holt, Arthur P., Jr.; and Lide, Edward N., to Lockheed Aircraft Corporation. Method and apparatus for selection of antenna providing acceptable signal. 3,475,686, 10-28-69, Cl. 325-304.
Holt, Charles R., to North American Rockwell Corporation. Aircraft pressurization system. 3,486,435, 12-30-69, Cl. 98-1.5
Holt, Charles W. Portable roll up tent. 3,476,127, 11-4-69, Cl. 135-1.
Holt, David T. Elevator bracket for outboard motor. 3,421,723, 1-14-69, Cl. 248-4.
Holt, Dean A. Multi-flash, flashcube adapter attachment for cameras. 3,430,546, 3-4-69, Cl. 95-11.5
Holt, Donald R.; and Jones, Wallace E., Jr., to Creasman, D. O., Electronics, Inc., mesne. Pressurized cable fault signal circuit. 3,444,336, 5-13-69, Cl. 179-175.3
Holt, Ernest Knowlton; Mueller, Herbert H.; and Urban, Warren J., to Lever Brothers Company. Process for preparing hydroxy-sulfonate esters. 3,429,136, 2-25-69, Cl. 62-114.
Holt, Eugene L., to Esso Research and Engineering Company. Method of operating a fuel cell with an insoluble fuel. 3,440,102, 4-22-69, Cl. 136-86.
Holt, Frank W. Fruit picker. 3,473,312, 10-21-69, Cl. 56-332.
Holt, Frank: *See—*
Lee, George; and Holt, Frank,3,486,390.
Holt, Frederick Rodney: *See—*
Bauman, Robert L.; and Holt, Frederick Rodney,3,480,858.
Holt, Frederick R., to Hickok Electrical Instrument Company, The. Digital voltmeter. 3,473,122, 10-14-69, Cl. 324-99.
Holt, Harley E.; and Quick, George R., to Singer-General Precision, Inc. Controls for aviation trainers. 3,451,145, 6-24-69, Cl. 35-12.
Holt, Harley E.: *See—*
Prebish, Michael J.; and Holt, Harley E.,3,466,753.
Holt, Henry Christopher: *See—*
Laws, William Robert; Holt, Henry Christopher; and Salter, Frank Michael,3,469,827.
Holt, Herman, to Sterile Products Corporation. Sterile package assembly and process of making same. 3,429,433, 2-25-69, Cl. 206-63.2
Holt, Hugh M.; Kelsey, Eugene L.; and Mills, Stacey M., to United States of America, National Aeronautics and Space Administration. Transient-compensated SCR inverter. 3,434,033, 3-18-69, Cl. 321-11.
Holt, John W. Duplicate books or kits for assembling game. 3,458,189, 7-29-69, Cl. 273-1.
Holt, Lloyd Junior; and Myers, Harry L., to United States of America, Navy. Remotely monitored and controlled airborne television system. 3,469,260, 9-23-69, Cl. 343-6.
Holt Products Limited: *See—*
Emblem, Harold Garton; Hurt, Norman Albert; and Wilkinson, Ernest Malcolm, 3,420,779.
Holt, Sherman H. Apparatus for applying pressure. 3,477,487, 11-11-69, Cl. 146-16.
Holt, Sherwood G., to Consolidated Papers, Inc. Paper-forming suction cylinder roll with arcuate stock delivery nozzle and porous belt in wrapped engagement therewith. 3,472,733, 10-14-69, Cl. 162-301.
Holt, Thomas C.: *See—*
Smith, Howard S.; Trogdon, Thomas; and Holt, Thomas C.,3,457,201.
Holt, Wainwright, Jr.: *See—*
Blattner, Ernest W.; Boettcher, Harry H.; Carter, Anthony F.; Heitmann, Arnold M.; Holt, Wainwright, Jr.; and Wilson, David G.,3,424,372.
Holt, William David: *See—*
Baldwin, John Granville; and Holt, William David,3,476,902.
Holt, William J., Jr., to Varo Inc., Electrokinetics Div., mesne. Tuning fork. 3,461,326, 8-12-69, Cl. 310-8.2
Holtan, Maurice O.; and Holtan, William J. Iron cylinder liners. 3,439,586, 4-22-69, Cl. 92-169.
Holtan, William J.: *See—*
Holtan, Maurice O.; and Holtan, William J.,3,439,586.
Holtermann, Hugo; Haugen, Leif Gunnar; Thorsdalen, Nils; Tjonneland, Knut; Wille, Knut; and Koutroulos, Jean, to Nyegaard & Co. A/S. N-Alkyl derivatives of 3,5-diacetamido-2,4,6- triiodobenzoic acid and salts thereof and process for preparing the same. 3,476,802, 11-4-69, Cl. 260-518.

Holtfreter, Richard P., to Bell Telephone Laboratories, Incorporated. Adjusting the armature air gap and changing the stiffness of the lock spring by plastic deformation. 3,425,119, 2-4-69, Cl. 29-593.
Holtfreter, Richard P.; and McCullough, Harold E., to Bell Telephone Laboratories, Incorporated. Crossbar switch. 3,445,795, 5-20-69, Cl. 335-112.
Holthausen, Lee H., to General Electric Company. Furnace control system. 3,428,250, 2-18-69, Cl. 236-15.
Holthofer, Donald J., to Saginaw Products Corporation. Variably preloaded ball nut and screw assembly. 3,479,897, 11-25-69, Cl. 74-441.
Holtkamp, Calvin J., to Westinghouse Electric Corporation. Mold for articles having side holes. 3,424,425, 1-28-69, Cl. 249-145.
Holtkamp, Calvin J., to Westinghouse Electric Corporation. Oven heater control. 3,440,402, 4-22-69, Cl. 219-412.
Holtkamp, Calvin J., to Westinghouse Electric Corporation. Mounting arrangement for smoke eliminator heater for heat-cleaning cooking oven. 3,462,583, 8-19-69, Cl. 219-402.
Holtkamp, Calvin J., to Westinghouse Electric Corporation. Smoke eliminator heating element mounting for heat-cleaning cooking ovens. 3,470,353, 9-30-69, Cl. 219-393.
Holton, James R., to Monsanto Company. Dyed intermittently textured yarn. 3,425,206, 2-4-69, Cl. 57-140.
Holton, James R.; Sims, James G.; and Parker, Wesley A., to Monsanto Company. Novelty nub yarns. 3,439,489, 4-22-69, Cl. 57-140.
Holton, Morris J.; and Hasson, Sol, to Advance Transformer Co. Electromagnetic device with terminal connections and the method of making the connections. 3,443,256, 5-6-69, Cl. 336-192.
Holton, Robert J., to Tinnerman Products, Inc. Fasteners. 3,459,094, 8-5-69, Cl. 85-5.
Holtschmidt, Hans: *See*—
Danhauser, Justus; Gold, Heinrich; Holtschmidt, Hans; and Pelz, Willibald,3,467,630.
Degener, Eberhart; and Holtschmidt, Hans,3,441,592.
Kocher, Ernst-Ulrich; von der Emden, Wolfgang; Glaser, Heinrich; and Holtschmidt, Hans,3,483,165.
Oertel, Gunter; and Holtschmidt, Hans,3,461,151.
Oertel, Gunter; Holtschmidt, Hans; Wagner, Kuno; and Zenner, Karl-Friedrich,3,480,591.
Holtschmidt, Hans; Nischk, Gunther; and Degener, Eberhart, to Farbenfabriken Bayer Aktiengesellschaft. (Isocyantoethylthio)carboxylates. 3,467,695, 9-16-69, Cl. 260-481.
Zenner, Karl-Friedrich; Oertel, Gunter; and Holtschmidt, Hans,3,453,310.
Holtschmidt, Ulrich; and Michel, Alfred, to Goldschmidt, Th., A.G. Binder composition comprising a mixture of a barium hydroxide catalyzed phenol-formaldehyde resole and a melamine formaldehyde condensate. 3,434,992, 3-25-69, Cl. 260-29.3
Holtum, Alfred G., Jr., to Andrew Corporation. Parabolic reflector with dual cross-polarized feeds of different frequencies. 3,438,041, 4-8-69, Cl. 343-779.
Holtwijk, Theodoor, to North American Philips Company, Inc. Magnetoresistive readout of thin film memories. 3,432,832, 3-11-69, Cl. 340-174.
Holtz, Frederick C., Jr., to United States of America, Navy, mesne. Vanadium-columbium-tantalum alloys. 3,449,118, 6-10-69, Cl. 75-134.
Holtz, Frederick C., Jr., to United States of America, Navy, mesne. High vanadium alloys. 3,449,119, 6-10-69, Cl. 75-134.
Holtz, Nickolas A.: *See*—
Gates, Lauren W.; Holtz, Nickolas A.; and Hill, Fredrick L.,3,422,953.
Holtz, Ralph F., to Skil Corporation. Adapter for driving posts by means of a power hammer. 3,454,113, 7-8-69, Cl. 173-129.
Holtz, Robert F.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,642.
Holtz, Roger E., to Bell Telephone Laboratories, Incorporated. Nonreactive antisidetone network for a telephone set. 3,440,367, 4-22-69, Cl. 179-170.
Holtzberg, Frederic; and Methfessel, Siegfried J., to International Business Machines Corporation. Ferromagnetic compounds and method of preparation. 3,427,134, 2-11-69, Cl. 23-204.
Holtzclaw, John V.; and Brooker, Leslie G. S., to Eastman Kodak Company. Silver halide photographic emulsions containing allopolar cyanine dyes. 3,440,053, 4-22-69, Cl. 96-105.
Holtzhauer, Thomas F., to Xerox Corporation. Corner forming apparatus. 3,440,859, 4-29-69, Cl. 72-399.
Holtzman, Arnold Harold, to Du Pont de Nemours, E. I., and Company. Explosive primer. 3,439,611, 4-22-69, Cl. 102-24.
Holtzman, Harris; and Schwarz, Milton H., to Revlon, Inc. Nitroaniline dyes for dyeing human hair and animal fibers. 3,446,568, 5-27-69, Cl. 8-10.
Holub, Fred F.: *See*—
Boldebuck, Edith M.; and Holub, Fred F.,3,440,196.
Boldebuck, Edith M.; and Holub, Fred F.,3,440,197.
Holub, Fred F., to General Electric Company. Polyamide acid resins and polyimides therefrom. 3,435,002, 3-25-69, Cl. 260-46.5
Holub, Fred F., to General Electric Company. Aromatic polyimides. 3,440,215, 4-22-69, Cl. 260-47.
Holub, Fred F.; and Gaertner, Richard F., to General Electric Company. Polymer solutions and methods for preparing and using the same. 3,448,068, 6-3-69, Cl. 260-29.2
Holub, Fred F.; Keane, John J.; and Kim, James K. S., to General Electric Company. Heat moldable polycarbonate composition. 3,477,978, 11-11-69, Cl. 260-23.7
Holub, Fred F.; and Kiser, Kenneth M., to General Electric Company. Laminated Products and methods for producing the same. 3,481,812, 12-2-69, Cl. 156-306.
Holuba, Henry J.: *See*—
Hallene, Alan M.; Holuba, Henry J.; and Drexler, John J.,3,450,232.
Holubar, Melvin J., to Collins Radio Company. Tape drive. 3,485,107, 12-23-69, Cl. 74-190.
Holum, Lawrence D. Rotary forging apparatus. 3,448,601, 6-10-69, Cl. 72-185.
Holycross, Frank R., Jr., to Wallace-Murray Corporation. Faucet valve. 3,425,660, 2-4-69, Cl. 251-172.
Holycross, Frank R., Jr.: *See*—
Ament, Myron J.; and Holycross, Frank R., Jr.,3,426,365.
Holz, Ernst. Cutting apparatus. 3,463,211, 8-26-69, Cl. 146-78.
Holz, George E., to Burroughs Corporation. Semiconductor device and circuit free of avalanche oscillations. 3,466,461, 9-9-69, Cl. 307-237.
Holzbau-und Finanz-Etablissement: *See*—
Neyroud, Walter, 3,429,631.
Holzer, Helmut: *See*—
Bauer, Hans; and Holzer, Helmut,3,422,179.
Holzer, Walter K. Program control mechanism, particularly for washing machines. 3,484,568, 12-16-69, Cl. 200-38.
Holzer, Walter. Method of sensing levels in containers holding liquids. 3,435,680, 4-1-69, Cl. 73-295.
Holzer, Walter. Control unit for washing machines. 3,439,141, 4-15-69, Cl. 200-168.
Holzer-Patent AG: *See*—
Giambertoni, Natale, 3,446,924.
Holzgruber, Wolfgang; Kleinhagauer, Othmar; and Schwanter, Fritz, to Gebr. Bohler & Co. Aktiengesellschaft. Electrode assembly for electric slag melting. 3,439,103, 4-15-69, Cl. 13-14.
Holzhausen, Glen H.: *See*—
Nancarrow, James H.; and Holzhausen, Glen H.,3,423,926.
Holzhei, Don Earl: *See*—
Myers, Herbert Arthur; and Holzhei, Don Earl,3,432,075.
Holzknecht, John F., Jr.: *See*—
Yann, Carl C.; Paskey, John W.; and Holzknecht, John F., Jr.,3,481,233.
Holzl, Robert A.; and Koenig, William D., to Fansteel Inc., mesne. Weld tip guide and apparatus. 3,472,443, 10-14-69, Cl. 228-3.
Holzman, Allen L.; and Allport, John J., to United Aircraft Corporation. MHD generator fueled by solid grain propellant. 3,449,600, 6-10-69, Cl. 310-11.
Holzman, James W., to Dana Corporation. Dynamic road simulator. 3,459,037, 8-5-69, Cl. 73-71.7
Holzman, Louis N.: *See*—
Becker, FloydK.; and Holzman, Louis N.,3,439,275.
Holzman, Louis N., to Bell Telephone Laboratories, Incorporated. Subscriber telephone circuit with resistance hybrid sidetone balancing network. 3,462,560, 8-19-69, Cl. 179-170.
Holzman, Louis N.; and Saltzberg, Burton R., to Bell Telephone Laboratories, Incorporated. Four-quadrant phase shifter. 3,475,626, 10-28-69, Cl. 307-293.
Holzman, Richard; and Ide, Kenton J., to Signatection, Inc., mesne. Synchronization system. 3,441,717, 4-29-69, Cl. 235-92.
Holzman, Richard: *See*—
Frazer, John F.; Holzman, Richard; Ide, Kenton J.; and Moore, Richard K.,3,441,850.
Holzman, Suzana; and Milwidsky, Ben-Zion, to Dahlia Kibbutz Hashomer Hazair, Kvutzat Poalim Le' Hityashvut Shitufit Be'Eravon Mugbal. Process for the manufacture of detergent sulfonates. 3,422,138, 1-14-69, Cl. 260-513.
Holzmann, Hermann, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Recovery of noble metals which are volatilized during catalytic reactions. 3,434,826, 3-25-69, Cl. 75-83.
Holzmann, Paul. Machine for picking berries and the like. 3,420,045, 1-7-69, Cl. 56-330.
Holznagel, Melvin A.: *See*—
Calnon, Donald C., Jr.; Fillinger, Russell V.; Holznagel, Melvin A.; and Stack, Richard W.,3,426,237.
Holzrichter, Edward Julius, to PRA Laboratories, Inc. Vinyl modified alkyd and urethane resins and method for the preparation thereof. 3,455,857, 7-15-69, Cl. 260-22.
Holzrichter, Edward Julius: *See*—
Walton, William Thomas; and Holzrichter, Edward Julius,3,461,093.
Holzrichter, Hermann: *See*—
Nutzel, Karl; and Holzrichter, Hermann,3,426,006.

Holzwarth, Henry Albert: *See—*
Metzler, Charles Lewis; Holzwarth, Henry Albert; and Wark, John Duncan,3,441,192.
Holzwarth, Robert W.: *See—*
Chirota, William W.; Holzwarth, Robert W.; and Shewchuck, Thomas,3,433,916.
Homan, Elwood P., to Kayser-Roth Corporation, mesne. Method of knitting sheer seamless support stockings. 3,478,544, 11-18-69, Cl. 66-108.
Homan, Virgil A. Chip collector and exhauster. 3,476,439, 11-4-69, Cl. 302-17.
Hombak Maschinenfabrik KG: *See—*
Marian, Josef E., 3,480,054.
Hombergsmeier, Gerhard: *See—*
Nitzsche, Siegfried; Riedle, Rudolf; and Hombergsmeier, Gerhard,3,428,580.
Home Metal Products Company: *See—*
Stalker, James E., 3,420,483.
Homer, Anthony Alfred James: *See—*
Robinson, Paul Baron Henn; and Homer, Anthony Alfred James,3,425,701.
Homerton Engineering Company Limited: *See—*
Brown, Joseph Cecil, 3,424,491.
Homeyer, Roger H., to Carborundum Company, The. Machine tool controls. 3,474,573, 10-28-69, Cl. 51-92.
Homier, Robert I.: *See—*
Downs, William T.; and Homier, Robert I.,3,427,073.
Homier, Robert I., to Lear Siegler Inc., mesne. Wedge block seat adjuster with motion trans- mitting rods. 3,437,302, 4-8-69, Cl. 248-394.
Homier, Robert I.; Posh, Raymond C.; and Downs, William T., to Lear Siegler, Inc. Headrest assembly. 3,471,198, 10-7-69, Cl. 297-410.
Homma, Isamu: *See—*
Ono, Minoru; Hujita, Minoru; Momoi, Toshimitu; and Homma, Isamu,3,474,310.
Hommel, Karl: *See—*
Ehrenberger, Friedrich; Gorbach, Siegbert; and Hommel, Karl,3,428,433.
Homonoff, Harold J.: *See—*
Ferrarini, Louis James; Homonoff, Harold J.; and Nelson, George R.,3,469,979.
Homrig, Horace J.: *See—*
Emery, Robert B.; and Homrig, Horace J.,3,424,504.
Homrig, Horace J., to Halliburton Company. Closure for a high pressure vessel. 3,430,801, 3-4-69, Cl. 220-46.
Homrig, Horace J., to Halliburton Company. Flowmeters. 3,433,071, 3-18-69, Cl. 73-231.
Homuth, Horst; Feess, Erich; and Schidlo, Wolfram, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for printing textile materials of natural or regenerated cellulose with reactive dyestuffs. 3,442,601, 5-6-69, Cl. 8-62.
Hon Industries, Inc.: *See—*
Gutting, Robert D., 3,442,564.
Honami, Tohei: *See—*
Sensui, Nobuo; and Honami, Tohei,3,459,279.
Honchar, Andrew P., to National Lead Company. Countercurrent solid-liquid treating apparatus. 3,468,633, 9-23-69, Cl. 23-270.
Honcharenko, Peter. Sudden stop actuated vehicle warning signal. 3,479,982, 11-25-69, Cl. 116-35.
Honda Giken Kogyo Kabushiki Kaisha: *See—*
Harada, Masao; Kai, Mitoshi; and Sagawa, Yasuyuki, 3,421,313.
Honda, Juichi; Matsumura, Kimio; Yoshida, Sadao; and Mori, Ryutaro, to Hitachi, Ltd. Pot-type liquid fuel burners. 3,428,407, 2-18-69, Cl. 431-249.
Honda, Kenji; and Kayaba, Teiji. Hypothermic surgical operation apparatus. 3,423,275, 1-21-69, Cl. 165-26.
Honda, Masakazu: *See—*
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru,3,437,620.
Honda, Soichiro; and Okamoto, Yoshinori, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Speed-change apparatus. 3,435,708, 4-1-69, Cl. 74-745.
Honda, Soichiro; and Uchida, Shiro, to Houda Giken Kogyo Kabushiki Kaisha. Gear grinding machine. 3,443,341, 5-13-69, Cl. 51-105.
Honeiser, Vladimir Paul, to American Can Company. High-speed printing of electronic components and articles produced thereby. 3,484,654, 12-16-69, Cl. 317-101.
Honel, Herbert, to Vianova Kunstharz Aktiengesellschaft. Process for the production of synthetic resins hardenable by multiesterification. 3,433,754, 3-18-69, Cl. 260-22.
Honer, Harold N., to ESB, Incorporated. Battery electrode-separator assembly. 3,437,529, 4-8-69, Cl. 136-100.
Honey, Alfred John: *See—*
Cowley, Sidney Ian; Wilde, Goeffrey Light; and Honey, Alfred John,3,465,525.
Steel, Thomas; Petrie, James Alexander; and Honey, Alfred John,3,438,400.
Honeyball, Walter John, to English Electric Valve Company Limited. Method of making electron discharge device cathodes. 3,477,110, 11-11-69, Cl. 29-25.14
Honeychurch, Robert W., to Dorr-Oliver Incorporated. Multiple chamber centrifuge. 3,484,040, 12-16-69, Cl. 233-14.
Honeycomb Systems, Inc.: *See—*
Thorpe, Foster B., 3,477,336.
Honeycutt, Jay F.: *See—*
Wright, James B.; and Honeycutt, Jay F.,3,453,496.
Honeycutt, Julian B., Jr., to Ethyl Corporation. Producing alkyllead halide. 3,439,012, 4-15-69, Cl. 260-437.
Honeycutt, Murray, to General Electric Company. Light projection device and light source support means therefor. 3,441,771, 4-29-69, Cl. 313-113.
Honeywell G.m.b.H.: *See—*
Hoeksema, Hendrikus M., 3,444,439.
Kingma, Cornelis S. J., 3,476,130.
Menzel, Uwe, 3,484,951.
Muller, Karl Heinz, 3,428,880.
Muller, Karl Heinz, 3,473,138.
Honeywell, Inc.: *See—*
Aitchinson, Don E., 3,428,790.
Aitchison, Don E., 3,435,193.
Aitchison, Don E., 3,470,363.
Akervold, Orrill L.; and Kutny, William J., Jr., 3,457,543.
Allen, Harry R.; and Mercier, Alfred C., 3,479,594.
Allingham, Walter F.; and Morgan, Hugh M., 3,461,912.
Anderson, Willard E., 3,426,211.
Andrews, John R., Jr.; Goldman, Philip A.; and Nibby, Chester M., Jr., 3,436,687.
Archer, Alva I., 3,453,507.
Archer, Alva I., 3,475,735.
Aske, Leonard E., 3,445,348.
Aske, Leonard E., 3,460,249.
Axmark, Roger E., 3,463,600.
Baldwin, Rolland G.; and Petersen, Darrell M., 3,465,442.
Baring, John A., 3,455,441.
Baring, John A., 3,458,813.
Bassett, William W., 3,426,788.
Beduhn, William G., 3,452,770.
Bell, Lawrence K., 3,454,796.
Belson, Ross A.; and Zettler, John F., 3,461,796.
Belson, Ross A.; and Bickoff, Charles, 3,465,670.
Bernard, David W., 3,428,308.
Betz, Bernard K., 3,482,623.
Blackett, James C.; Flagg, Raymond P.; Livingston, William L.; and Ritchart, Stuart T., 3,421,536.
Blackett, James C., 3,425,597.
Blackett, James C., 3,428,901.
Blackett, James C., 3,449,055.
Blackett, James C., 3,482,922.
Boskovich, Boris; Lindahl, John H.; Mehelich, Edward W.; and Mellen, David L., 3,440,504.
Boskovich, Boris, 3,458,784.
Briggs, Cecil Wallace; and Spatz, Paul M., 3,475,151.
Carlson, Donovan, 3,425,354.
Carlson, Thomas W.; and Ivers, John R., 3,479,596.
Chen, Di, 3,422,269.
Clapham, Robert G.; Lord, John B., IV; and Sullivan, Harold G., 3,445,771.
Clifford, Joseph, 3,453,903.
Colvin, Donald W.; Comeau, John C.; and Kulick, Frederick, 3,443,872.
Colvin, Donald W.; and Kulick, Frederick, 3,486,826.
Currie, William E., 3,454,923.
Currie, William E.; and Mettert, Paul M., 3,465,257.
Davis, William M., Jr., 3,464,021.
Digilio, Frank A., 3,460,753.
Dinter, Henry A., 3,429,190.
Doyle, Barrett, 3,468,608.
Dunn, William R., 3,459,215.
Dunn, William R., 3,470,911.
Eachus, Joseph J.; and Bagnaschi, Charles L., 3,469,242.
Egli, Werner H., 3,454,025.
Eisenberg, Harold, 3,478,352.
Engelhardt, Robert C., 3,444,529.
Engh, Robert O., 3,435,225.
Engh, Robert O., 3,451,759.
Erickson, Goffe J.; and Korzenowski, Stanley J., 3,451,134.
Erickson, Roger D., 3,442,190.
Evans, Richard A., 3,451,408.
Eveland, Baisel L.; Hart, Joseph C.; and Masterson, Earl E., 3,420,518.
Exworthy, Kenneth W., 3,427,540.
Follen, Robert J.; and Thue, Baard H., 3,467,961.
Forsyth, William A., Jr., 3,477,862.
Frommel, Gerhard, 3,441,450.
Ganley, Gregory J., 3,458,678.
Ganley, Gregory J., 3,465,709.
Gerding, James H., 3,426,338.
Gobeli, David H.; and Hardy, Arthur H., Jr., 3,436,647.

Gormley, Joseph, 3,439,228.
Grangaard, Orrin H., Jr., 3,444,738.
Grangaard, Orrin H., Jr., 3,451,006.
Gray, Junior Merle, 3,442,144.
Groth, William H., 3,447,148.
Groth, William H., 3,447,149.
Groth, William H., Jr., 3,427,595.
Hagadorn, Hubert W., 3,466,637.
Harms, Gordon E., 3,473,780.
Hart, Clifton W.; and Rosacker, Eugene E., 3,487,299.
Hart, Thomas W., Jr., 3,487,376.
Hastings, Charles W., 3,435,425.
Hawkins, Royal R., 3,452,641.
Hawkins, Royal R.; and Ong, Thean Chye, 3,454,853.
Hearn, Glenn R.; Rollins, James A.; and Schaller, Frank H., 3,474,232.
Hedlund, Richard K., 3,426,970.
Hendrik, Russell C.; Boskovich, Boris; and Lindahl, John H., 3,456,172.
Hinlein, Sigmund, 3,479,737.
Hippisley, George W., Jr., 3,454,935.
Hogel, Joseph E., 3,455,319.
Horn, Kurt, 3,481,299.
Jensen, James Lee, 3,426,290.
Jensen, James Lee, 3,432,738.
Joannou, Kyriacos, 3,473,074.
Johnson, Elmer G., 3,460,554.
Johnson, Jerome L., 3,451,269.
Johnson, Jerome L., 3,451,411.
Jonas, Victor H., 3,465,879.
Jordan, William F., Jr., 3,478,319.
Josephs, Harold C.; and Zook, James David, 3,434,893.
Joy, Charles A., 3,473,432.
Joyce, Thomas F., 3,426,331.
Kallevig, John A.; and Sher, Neil C., 3,462,014.
Kautz, Murrell F., 3,433,074.
Keim, Jonathan R., 3,449,578.
Killpatrick, Joseph E., 3,467,472.
Kluge, Robert D., 3,448,950.
Kompelien, Arlon D., 3,463,933.
Krueger, Loren L., 3,428,073.
Kuether, Frederick W.; and Richards, Albert M., 3,438,253.
Lagoe, James A., 3,422,397.
Lagoe, James A.; and Kusaka, Dan H., 3,427,554.
Lazar, Jeffrey M., 3,463,176.
Lazar, Jeffrey M., 3,468,220.
Lee, Tzuo-Chang, 3,485,553.
Leger, Alton, Jr., 3,424,921.
Leidy, Lester R., Jr.; and Aldinger, Paul A., 3,441,945.
Lenz, John O., 3,433,040.
Leyde, Warren L.; Osterhaug, John E.; and Thomasson, Leland T., 3,443,123.
Lord, John B., 3,422,222.
Lord, John B., 3,430,145.
Lord, John B.; and Lytle, Dean W., 3,479,458.
Luck, James R.; and Mills, Frank S., 3,477,576.
Lukianov, Roman E., 3,444,535.
MacGeorge, William D., 3,439,171.
MacLennan, John R., 3,461,894.
Mahnken, Walter J., 3,444,432.
Mahnken, Walter J.; Niccore, Fred W.; and Tyler, Tommy N., 3,458,096.
Marshall, Donald E., Jr.; and Piccirilli, Albert T., 3,430,070.
Mason, Kenneth A., 3,462,604.
Masterson, Earl E., 3,453,572.
Mc Millan, John G., 3,463,177.
McCammon, Robert F., 3,421,674.
McCammon, Robert F.; and Parker, Darrell D., 3,465,938.
McGuinness, Raymond H., 3,484,647.
Merz, William C.; and Klopp, Donald W., 3,480,480.
Meyer, Jack R., 3,453,537.
Meyers, William F.; and Smiley, Charles E., 3,470,029.
Miller, Peter S., 3,462,701.
Miller, Robert L., 3,440,414.
Miller, Robert L., 3,441,950.
Miller, Ronald C., 3,428,887.
Miller, Ronald C.; and Newbold, William F., 3,439,648.
Moran, Robert J.; and Shneider, Harold M., 3,420,352.
Morton, Richard C.; and Sher, Neil C., 3,478,731.
Moses, Adrian J., 3,456,204.
Moses, Adrian J., 3,465,171.
Moses, Adrian J., 3,465,256.
Moses, Adrian J., 3,466,463.
Moses, Adrian J., 3,474,345.
Mott, Richard C., 3,429,323.
Mott, Richard C., 3,456,666.
Mott, Richard C., 3,463,389.
Newbold, William F., 3,421,082.
Newbold, William F., 3,443,235.
Nogami, Iwao, 3,438,385.
Ogawa, Shinichiro, 3,446,988.
Ogren, Harvey D., 3,435,688.
Olson, Elwyn H., 3,426,316.
Paine, Veijo K.; and Schmidt, Edwin H., 3,460,110.
Pekarek, Joseph C., 3,455,335.
Pinckaers, Balthasar H., 3,428,784.
Pinckaers, Balthasar H., 3,428,823.
Pinckaers, Balthasar H., 3,443,124.
Pinckaers, Balthasar H., 3,466,502.
Pinckaers, Balthasar H., 3,482,776.
Plice, William A., 3,449,666.
Plice, William A., 3,475,749.
Posingies, Walter M., 3,443,573.
Posingies, Walter M., 3,443,574.
Posingies, Walter M., 3,452,767.
Priddy, Lloyd W., 3,469,202.
Raetz, Robert C., 3,429,325.
Rainer, Charles W., 3,457,937.
Rasmussen, Robert F., 3,429,226.
Rasmussen, William L., 3,470,747.
Reilly, Richard J.; and Sher, Neil C., 3,481,351.
Reinke, Robert F., 3,478,819.
Richard, Gordon L., 3,428,789.
Robinson, Leslie B., 3,458,732.
Root, Lawrence D.; and Davis, Wilbern F., 3,442,507.
Rupert, John G., 3,474,670.
Sandstrom, Clifford L., 3,447,041.
Sandstrom, Clifford L.; and Ting, Youn H., 3,453,837.
Sauter, Donald M.; and Abernethy, Hugh, 3rd, 3,454,782.
Schaller, Frank H.; Richter, Eugene G.; and Lozeau, Paul R., 3,421,754.
Schmalbruch, T Dankward, 3,475,952.
Schmidt, Edwin H., 3,465,307.
Schmidt, Edwin H., 3,466,619.
Schmit, Francis M., 3,459,668.
Schmitz, Robert, 3,464,448.
Schoenwitz, Frank H. W., 3,466,605.
Seashore, Charles R.; and Tenbroek, Henry W., 3,460,066.
Sewell, Wesley C., 3,422,366.
Shebanow, Michael S., 3,420,521.
Shebanow, Michael S., 3,465,319.
Shebanow, Michael S., 3,480,930.
Sher, Neil C., 3,435,837.
Sher, Neil C.; and Zabsky, John M., 3,474,814.
Shiosaki, James T., 3,454,794.
Shneider, Harold M., 3,447,455.
Sklaroff, Morton, 3,427,442.
Sklaroff, Morton, 3,487,307.
Smith, Holley R.; and Sykes, Bernard P., 3,445,295.
Smith, Ralph S., Jr., 3,436,467.
Soltz, Daniel J.; and Greer, Homer L., 3,431,508.
Soltz, Daniel J., 3,465,174.
Springer, Charles L., 3,480,935.
Staats, Robert C., 3,469,457.
Starr, James B., 3,481,352.
Stauffer, Norman L., 3,422,444.
Stauffer, Norman L.; Shafer, Donald E.; and Tyler, Tommy N., 3,434,158.
Stone, Paul L., 3,449,670.
Stryker, Edwin M., Jr., 3,468,255.
Taylor, William S.; and Whitehead, Robert C., Jr., 3,455,168.
Trickett, Terrance; Zepp, Donald J.; Horne, Benjamin; and Brill, Thomas, 3,445,635.
Tucker, B T., 3,449,722.
Unruh, Willis O., 3,422,686.
van der Zee, Jan H., 3,480,028.
Vince, John, 3,484,596.
Vincent, Thomas G., 3,437,769.
Waldhauer, Charles H., Jr., 3,422,548.
Westbrook, Lowell V., 3,477,004.
White, Loring C., 3,452,198.
Williamson, William R.; and Ritter, Robert, 3,473,391.
Zoerb, Edward G., 3,451,413.

Honeywell Limited: *See*—
Williams, Peter Douglas, 3,481,304.

Hongo, Chikara: *See*—
Shirakura, Toshio; Yoshikawa, Hiroshi; Shibasaki, Masataka; and Hongo, Chikara,3,478,055.

Honig, Hans-Ludwig; Kolb, Gunter; and Wunder, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for imparting antistatic and hydrophobic properties to a synthetic textile material. 3,425,863, 2-4-69, Cl. 117-139.5

Honig, Hans Ludwig; Muller, Erwin Alfons; Kuhnel, Werner; Kolb, Gunter; and Elzer, Paul, to Farbenfabriken Bayer Aktiengesellschaft. Polymers from polymerisable aminodichlorotriazine derivatives. 3,445,438, 5-20-69, Cl. 260-88.3

Honig, Steven, to International Telephone and Telegraph Corporation. Time delay circuit. 3,440,451, 4-22-69, Cl. 307-293.

Honigman, Allan, to United States of America, Navy. Triplex pressure gauge. 3,425,391, 2-4-69, Cl. 116-129.

Honigsberg, Charles A.: *See—*
Eschenbrenner, Gunther P.; and Honigsberg, Charles A.,3,475,136.
Honiron, Inc.: *See—*
Farmer, John, 3,432,344.
Honjo, Mikio; and Imai, Kin-Ichi, to Takeda Chemical Industries, Ltd.Method for the production of ribonucleoside-5'- phosphate. 3,433,783, 3-18-69, Cl. 260-211.5
Honjo, Mikio; Imai, Kin-Ichi; and Furukawa, Yoshiyasu, to Takeda Chemical Industries, Ltd. Method for the production of nucleotides. 3,444,158, 5-13-69, Cl. 260-211.5
Honjo, Mikio; Masuda, Toru; Imai, Kinichi; Fujii, Shoichiro; and Takanohashi, Kunio, to Takeda Chemical Industries, Ltd.Method for the production of 5'-ribonucleotide. 3,423,399, 1-21-69, Cl. 260-211.5
Honjo, Mitsuo: *See—*
Abe, Shokichi; Kakefude, Koichi; and Honjo, Mitsuo,3,436,440.
Honjo, Satoru: *See—*
Ohkubo, Kinji; and Honjo, Satoru,3,473,923.
Okubo, Kinji; Honjo, Satoru; and Nagai, Toshihiko,3,431,412.
Sato, Masamichi; Honjo, Satoru; and Takimoto, Masaaki,3,476,659.
Honjo, Satoru, to Xerox Corporation. Image forming process utilizing xerography. 3,428,453, 2-18-69, Cl. 96-1.8
Honjo, Satoru; and Nagai, Toshihiko, deceased,0 (by Okubo, Kinji, legal representative), to Fuji Shashin Film Kabushiki Kaisha. Copying process. 3,433,951, 3-18-69, Cl. 250-65.
Honkasalo, Jorma B.: *See—*
Bryk, Petri; Honkasalo, Jorma B.; Malmstrom, Rolf; Aaltonen, Olavi; and Palperi, Matti,3,460,491.
Honkonen, Richard A.; Allen, Paul E.; Way, Richard K.; and Larime, Carl M., to Sperry Rand Corporation. Electrically driven fishing reel. 3,437,282, 4-8-69, Cl. 242-84.21
Honma, Umeo, to Mitsubishi Chemical Industries Limited. Method for the manufacture of aluminum or aluminum alloy castings. 3,485,289, 12-23-69, Cl. 164-102.
Honme, Seigo; and Komatsubara, Gakuo, to Nihon Denshi Kabushiki Kaisha. Goniometer for X-ray diffraction apparatus. 3,486,021, 12-23-69, Cl. 250-51.5
Honnen, Lewis R.: *See—*
Mehmedbasich, Enver; and Honnen, Lewis R.,3,455,827.
Honnen, Lewis R.; and Anderson, Robert Gordon, to Chevron Research Company. Hydrocarbyl amines for fuel detergents. 3,438,757, 4-15-69, Cl. 44-58.
Honnige, Manfred M.: *See—*
Hallonquist, Earland G.; and Honnige, Manfred M.,3,428,477.
Honnold, Fred V., Jr., to Carrier Corporation. Air conditioning units. 3,428,118, 2-18-69, Cl. 165-123.
Honnold, Fred V., Jr., to Carrier Corporation. Induction-type room terminal. 3,455,378, 7-15-69, Cl. 165-135.
Honnold, Fred V., Jr.: *See—*
Yerdon, Michael G.; and Honnold, Fred V., Jr.,3,452,811.
Honobe, Makoto, to Hitachi, Ltd. Circular arc gear for smoothly transmitting power. 3,454,394, 7-8-69, Cl. 74-462.
Honold, Horst: *See—*
Kneisel, Otto; and Honold, Horst,3,475,560.
Honolulu Iron Works Company: *See—*
Farmer, John, 3,434,515.
Farmer, John, 3,434,516.
Honor, Murel E., Sr. Glare shield attachment for automobile sun visors. 3,428,360, 2-18-69, Cl. 296-97.
Honore, Etienne A. H.; and Torcheux, Emile L. G., to Societe d'Etude et d'Application des Techniques Nounelles. Apparatus for determining the radiolocation of a movable part. 3,434,143, 3-18-69, Cl. 343-105.
Honore, Etienne Augustin Henri; and Torcheux, Emile Leon, to Neo-Tec, Societe d'Etude et d'Application des Techniques Nouvelles. Method and means for radio-locating a radio-receiving station. 3,452,357, 6-24-69, Cl. 343-105.
Honore, Etienne; and Torcheux, Emile, to CSF-Compagnie Generale de Telegraphie Sans Fil, and Societe Marocaine de Recherches, d'Etudes et de Developpements Somarede. Transformer arrangement for an analogue computer and other uses. 3,441,726, 4-29-69, Cl. 235-193.
Honrud, Ludvig O. Rock removing device. 3,437,155, 4-8-69, Cl. 172-566.
Honsel, Karl-Heinz. Method for making filter cones. 3,444,791, 5-20-69, Cl. 93-1.
Honsel, Karl-Heinz. Method for welding one or both ends of tube sections of plastic material. 3,461,019, 8-12-69, Cl. 156-464.
Honsel, Karl-Heinz. Method for the manufacture of preferably multilayer cross-bottom bags of paper, plastic or the like. 3,466,981, 9-16-69, Cl. 93-35.
Honten, Komachiya, Co., Ltd.: *See—*
Ito, Yonezo, 3,474,767.
Hoock, Herbert. Towing device. 3,427,045, 2-11-69, Cl. 280-478.
Hood, Charles B., Jr.; and Simons, Ira W., to CVI Corporation. Cryosurgical apparatus. 3,477,434, 11-11-69, Cl. 128-303.1
Hood, Coy H.: *See—*
Martin, Alfred W.; Walker, James W.; McNair, William T., Jr.; and Hood, Coy H.,3,432,560.
Hood, Donald W.: *See—*
Davison, Richard R.; and Hood, Donald W.,3,424,675.
Hood, Edwin Elliott: *See—*
Christian, Frank T.; and Hood, Edwin Elliott,3,428,377.
Hood, H. P., & Sons, Inc.: *See—*
Goss, Donald Davis, 3,453,033.
Hood, Harold W., Jr., to American Metal Climax, Inc. Feed tip for continuous strip casting machine. 3,430,683, 3-4-69, Cl. 164-281.
Hood, Horace E.: *See—*
Haubein, Albert H.; and Hood, Horace E.,3,471,577.
Hood, James M. Windshield rainshield. 3,429,357, 2-25-69, Cl. 160-368.
Hood, John W.; and Johnson, Arne W. Backhoe and auxiliary blade therefor. 3,469,330, 9-30-69, Cl. 37-117.5
Hood, Joseph T.: *See—*
Booe, James M.; and Hood, Joseph T.,3,465,402.
Hood, R. H., Company: *See—*
Hood, Robert H., 3,441,985.
Hood, R. T., Jr.; Ruger, George A.; and Messick, Thomas M., to Lockheed Aircraft Corporation, mesne. Recorder apparatus. 3,437,280, 4-8-69, Cl. 242-55.13
Hood, Richard G. P.: *See—*
Divine, William J.; and Hood, Richard G. P.,3,428,378.
Hood, Richard T.: *See—*
Moult, Roy H.; and Hood, Richard T.,3,431,241.
Hood, Robert H., to Hood, R. H., Company. Faller. 3,441,985, 5-6-69, Cl. 19-129.
Hood, Roger Williams: *See—*
Curtiss, Alan Clarkson; and Hood, Roger Williams,3,478,778.
Hood, William A.: *See—*
Mueller, Frank H.; Hauffe, William L.; and Hood, William A.,3,480,042.
Hooge, Alvin W.; and Hooge, Yvonne L. Mouth wash dispenser. 3,434,629, 3-25-69, Cl. 222-88.
Hooge, Yvonne L.: *See—*
Hooge, Alvin W.; and Hooge, Yvonne L.,3,434,629.
Hoogeveen, Johan C.: *See—*
van Leeuwen, Frederik W.; van Dijk, Jan C.; and Hoogeveen, Johan C.,3,446,689.
Hooghordel, Rijk; and Moggre, Anthonie Jannis, to North American Philips Company, Inc. Circuit arrangements for dynamic lateral convergence. 3,441,788, 4-29-69, Cl. 315-13.
Hoogland, Jan, to Perkin-Elmer Corporation, The. Five component optical objective. 3,486,810, 12-30-69, Cl. 350-217.
Hoohberg, Jerome: *See—*
Craven, James M.; Dye, John I.; and Hoohberg, Jerome,3,481,767.
Hook, Bernard K.; and Nelsen, Roger J., to Bliss, E. W., Company. Blank feeding apparatus. 3,480,180, 11-25-69, Cl. 221-211.
Hook, Fred E., to Dow Chemical Company, The. Aqueous cement slurry and method of use. 3,483,007, 12-9-69, Cl. 106-93.
Hook, Fred E.; Kucera, Clare H.; and Scott, L. J., Jr., to Dow Chemical Company, The. Aqueous cementing composition adaptable to high turbulent flow and low fluid loss to porous contacting surfaces, and method of cementing a well using same. 3,465,825, 9-9-69, Cl. 166-293.
Hook, George C., to Continental Can Company, Inc. Polyethylene aluminum laminated. 3,449,192, 6-10-69, Cl. 156-316.
Hook, George C., to Continental Can Company, Inc. Preparation of polyethylene aluminum laminates. 3,470,056, 9-30-69, Cl. 156-308.
Hook, Harvey E.: *See—*
Trent, James A.; Kubitschek, Hans E.; Hook, Harvey E.; and Caudel, Fred H.,3,453,988.
Hook, John H., to Du Pont de Nemours, E. I., and Company. Fire extinguisher apparatus. 3,446,287, 5-27-69, Cl. 169-28.
Hook, Kenneth R.: *See—*
Barnes, James W.; and Hook, Kenneth R.,3,480,902.
Hook, Robert D., to Textron, Inc. Miter joint for trim member. 3,484,126, 12-16-69, Cl. 287-189.36
Hooker, Albert S. Protective device adaptable for use on snow-skis. 3,424,469, 1-28-69, Cl. 280-11.13
Hooker Chemical Corporation: *See—*
Ashton, William Eric; and Weil, Edward D., 3,433,877.
Baranauckas, Charles F.; and Gordon, Irving, 3,434,981.
Baranauckas, Charles F.; and Gordon, Irving, 3,437,721.
Baranauckas, Charles F.; and Hodan, James J., 3,445,547.
Baranauckas, Charles F.; Campbell, Donald H.; and Carr, Russell L. K., 3,448,148.
Baranauckas, Charles F.; and Gordon, Irving, 3,484,506.
Beach, James R., 3,450,577.
Beach, James R., 3,484,304.
Bowman, Russel A.; and Wilson, Bruce N., 3,455,995.
Bowman, Russel A.; and Wilson, Bruce N., 3,471,411.
Campbell, Donald Harvey, 3,462,319.
Carlson, Ronald H., 3,477,953.
Cook, Edward H., Jr.; and Gretheer, Morris P., 3,475,301.

Currey, John E., 3,425,927.
Currey, John E., 3,432,422.
Currey, John E., 3,475,304.
Dever, James L.; and Hodan, James J., 3,459,835.
Dever, James L.; and Hodan, James J., 3,459,837.
Dever, James L.; and Hodan, James J., 3,467,733.
Dever, James L.; and Hodan, James J., 3,482,002.
Dorfman, Edwin; and Bean, Claude Thomas, Jr., 3,420,884.
Dorfman, Edwin; and Weil, Edward D., 3,459,534.
Emery, Alvin T.; and Schmidtke, Charles W., 3,425,928.
Emery, Alvin T.; and Currey, John E., 3,425,929.
Emery, Alvin T.; and Ruthel, Walter W., 3,464,912.
Frank, Arlen W., 3,422,453.
Frank, Arlen W.; and Gordon, Irving, 3,459,795.
Freeman, Dennis B.; and Burden, Peter, 3,449,222.
Freeman, Dennis B.; and Burden, Peter, 3,449,229.
Freeman, Dennis Brian; and Gill, Colm Anthony, 3,459,604.
Fuller, Willard A., 3,446,584.
Gburek, John J.; Bryzinsky, Frank M.; and Grazen, Frank S., 3,474,065.
Geering, Emil J., 3,433,874.
Geering, Emil J.; and Stratton, George B., 3,468,961.
Gelfand, Samuel, 3,450,768.
Gilbert, Theodore E.; and Lindemann, Otto H., 3,421,477.
Gordon, Irving; Hodan, James J.; and Dever, James L., 3,448,179.
Graf, Richard H., 3,439,379.
Grazen, Frank S.; Bryzinsky, Frank M.; and Kozma, Broni, 3,438,917.
Greenbaum, Sheldon B., 3,431,325.
Greenbaum, Sheldon B., 3,433,865.
Grotheer, Morris P.; Cook, Edward H.; and Snyder, Daniel J., 3,458,411.
Grotheer, Morris P.; and Cook, Edward H., Jr., 3,464,901.
Grotheer, Morris P.; and Cook, Edward H., Jr., 3,467,586.
Grotheer, Morris P., 3,471,382.
Halversen, Roy A., 3,421,949.
Hellund, Emil J., 3,429,793.
Hellund, Emil J., 3,444,061.
Hellund, Emil J., 3,450,617.
Hindersinn, Raymond R.; and Witschard, Gilbert, 3,449,161.
Hindersinn, Raymond R.; and Ilardo, Charles S., 3,449,279.
Hindersinn, Raymond R., 3,471,441.
Hindersinn, Raymond R., 3,475,502.
Hindersinn, Raymond R., 3,483,272.
Hoch, Paul E.; and Stratton, George B., 3,442,884.
Hooker, Thomas; and Currey, John E., 3,434,948.
Ilardo, Charles S.; and Hindersinn, Raymond R., 3,433,654.
Jack, Walter Q.; and Johnson, Loyd V., 3,433,702.
Jaszka, Danile J., 3,442,629.
Kay, Daniel J.; and Knipple, Raymond P., 3,446,783.
Kircher, Morton S.; and Miller, T. George, 3,438,879.
Knutson, David, 3,422,158.
Kujawa, Francis M., 3,424,701.
Kunkel, Karl E., 3,449,448.
Lawrence, Willis Thompson, 3,438,429.
Lawrence, Willis Thompson, 3,448,792.
Lawrence, Willis Thompson, 3,452,720.
Lawrence, Willis Thompson; and Webb, George Warren, 3,475,596.
Leland, James F.; and Russell, William S., 3,481,797.
Maurer, James I.; and Shah, Vinod D., 3,444,007.
Mekjean, Matthew, 3,439,151.
Mekjean, Matthew, 3,453,416.
Mekjean, Matthew, 3,470,865.
Mellan, Herbert J.; and Kay, Daniel J., 3,450,657.
Miller, George T., 3,421,846.
Miller, George T., 3,472,647.
Minklei, Alfred O.; Dexter, Theodore H.; Sconce, James S.; and Thorstensen, Thomas C., 3,421,832.
Newcomer, Jack S., 3,444,192.
Newcomer, Jack S.; Weil, Edward D.; and Dorfman, Edwin, 3,458,640.
Paddock, Norman Lovelace; and Searle, Harold Trevor, 3,462,247.
Peterson, John A., 3,421,845.
Quinn, Edward J., 3,476,696.
Rapson, William Howard, 3,453,174.
Rausch, Werner; and Koch, Gerhard, 3,425,947.
Rausch, Werner; and Hansen, Hans, 3,450,579.
Rausch, Werner; Hansen, Hans; and Mueller, Gerhard, 3,467,589.
Rice, Richard E.; and Whitney, William E., 3,464,486.
Schlichting, Hans L.; Barbopoulos, Anthony D.; and Prahl, Walter H., 3,426,358.
Schlichting, Hans L.; and Weil, Edward D., 3,483,263.
Schneider, Horst, 3,454,495.
Schulz, Arthur C., 3,420,901.
Schulz, Arthur C., 3,445,548.
Sconce, James S.; Hodan, James J.; and Schall, William L., 3,428,714.
Shatz, Malcolm H., 3,444,154.
Shepard, Alvin F.; and Mc Naughtan, Thomas J., 3,425,989.
Shepard, Alvin F., 3,444,246.
Shepard, Alvin F.; Zimmer, William F.; and Ouderkirk, John T., 3,458,460.
Shepard, Alvin F.; and Dannels, Bobby F., 3,487,045.
Siemund, Guenter; Hansen, Hans; and Flittner, Peter, 3,450,578.
Van Ghemen, Max; and Wiberg, Egon, 3,471,568.
Virgil, Carl W., Jr., 3,485,730.
Vullo, William J., 3,452,098.
Vullo, William J., 3,475,479.
Wagner, George M.; and Schad, Rex A., 3,428,480.
Wayman, Morris; and Rapson, William H., 3,467,575.
Weil, Edward D., 3,420,868.
Weil, Edward D., 3,429,687.
Weil, Edward D.; and Schlichting, Hans L., 3,443,012.
Weil, Edward D.; and Linder, Jerome, 3,443,016.
Weil, Edward D.; and Schlichting, Hans L., 3,446,859.
Weil, Edward D.; and Schlicting, Hans L., 3,461,137.
Weil, Edward D.; Dorfman, Edwin; and Linder, Jerome, 3,467,622.
Weil, Edward D., 3,472,937.
Weil, Edward D.; and Greenbaum, Sheldon B., 3,482,019.
Witschard, Gilbert; and Bean, Claude Thomas, Jr., 3,462,407.
Woodland, Richard G.; and Hall, Myron C., 3,445,192.

Hooker, Donald E., to Rowe International, Inc., mesne. Dollar bill collector. 3,485,358, 12-23-69, Cl. 209-74.

Hooker, Harris H.: *See—*
Hutter, Ernest; and Hooker, Harris H.,3,471,826.

Hooker, Thomas; and Currey, John E., to Hooker Chemical Corporation, mesne. Method for chlorine cooling and brine heating. 3,434,948, 3-25-69, Cl. 204-128.

Hooker, Verne A. Football tackling dummy apparatus. 3,464,696, 9-2-69, Cl. 273-55.

Hookings, Paul H. H.: *See—*
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H. H.,3,472,649.

Hookings, Paul H.H.: *See—*
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H.H.,3,472,650.

Hookman, Perry, to Clinical Research Institute, Inc. Method and composition for use as an X-ray contrast material in the diagnosis of reflux peptic esophagitis. 3,448,188, 6-3-69, Cl. 424-4.

Hooks, Arthur K.: *See—*
Dagnoli, Donato F.; Jaeschke, Charles R.; and Hooks, Arthur K.,3,483,966.

Hooks, Haywood, Jr.: *See—*
Kober, Ehrenfried H.; Ottmann, Gerhard F.; and Hooks, Haywood, Jr.,3,480,672.
Ottmann, Gerhard F.; and Hooks, Haywood, Jr.,3,433,803.
Ottmann, Gerhard F.; and Hooks, Haywood, Jr.,3,441,590.

Hoole, Harold: *See—*
Beard, Jack H.; Hoole, Harold; and Hayes, Allan,3,438,996.

Hooper, Carrol D., to United States of America, National Aeronautics and Space Administration. Extensometer. 3,425,131, 2-4-69, Cl. 33-147.

Hooper, Clive Williams: *See—*
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew,3,451,209.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; and Hooper Clive Williams,3,452,533.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew,3,452,534.

Hooper, Donald F., Jr. Speech recognizing circuit. 3,485,951, 12-23-69, Cl. 179-1.

Hooper, George Wallace, to Imperial Chemical Industries Limited. Production of phenols. 3,445,526, 5-20-69, Cl. 260-621.

Hooper, George Wallace: *See—*
Roberts, Hugh Leithead; and Hooper, George Wallace,3,471,566.

Hooper, Harrison G., to Lathem Time Recorder Company. Card controlled printing and numbering means. 3,431,845, 3-11-69, Cl. 101-287.

Hooper, Harry Allison, to American Machine & Foundry Company. High speed cigar bunch machine. 3,477,442, 11-11-69, Cl. 131-61.

Hooper, Irving R.: *See—*
Keil, John G.; and Hooper, Irving R.,3,428,623.
Keil, John G.; and Hooper, Irving R.,3,454,548.

Hooper, John, to Sun Oil Company. Well producing apparatus. 3,483,827, 12-16-69, Cl. 103-203.

Hooper, Robert C.: *See—*
Sharif, Louay E.; and Hooper, Robert C.,3,466,719.

Hooper, Robert W. Dynamic mixer and centrifuge combination for solvent extraction. 3,443,748, 5-13-69, Cl. 233-28.

Hoopes, Penrose Robinson: *See—*
Hahn, Paul Turner; Hoopes, Penrose Robinson; and Froelich, Gunnar Cramer,3,456,324.

Hoos, Pieter F., to H-M Industries, Inc. Rotary servo valve. 3,454,049, 7-8-69, Cl. 137-625.65

Hoose, Werner: *See—*
Buchholz, Klaus; and Hoose, Werner,3,455,524.
Hooten, Basil P., Jr., to Bendix Corporation, The. Two directional switch. 3,478,293, 11-11-69, Cl. 338-128.
Hooton, Ivor Noel, to United Kingdom Atomic Energy Authority. Trigonometrical function generators. 3,435,197, 3-25-69, Cl. 235-197.
Hooton, Ivor Noel; Best, Geoffrey Cyril; and Lewis, Alan, to United Kingdom Atomic Energy Authority. Digital signal representation of video signals with random sampling. 3,482,036, 12-2-69, Cl. 178-6.
Hoover, Alex Kay: *See—*
Pappas, George Demo; and Hoover, Alex Kay,3,456,821.
Hoover Ball and Bearing Company: *See—*
Martin, Merritt W., Jr., 3,470,582.
McKinney, Ralph E.; and Bauers, Arthur A., 3,474,935.
McKinney, Ralph E., 3,478,968.
Phelps, Vernon A., 3,434,240.
Rupert, Samuel J., 3,426,500.
Rupert, Samuel J., 3,465,931.
Van Hartesveldt, Carroll H.; and Wahl, Buddy D., 3,450,032.
Hoover, Carl E.; and Finley, Otis E., 1/6 to Jakub, Victor P, and 1/6 to Mitchell, Clyde B. Wood product for water and sewage treatment. 3,452,871, 7-1-69, Cl. 210-150.
Hoover, Charles T., to General Motors Corporation. Double-walled container. 3,460,706, 8-12-69, Cl. 220-15.
Hoover Company, The: *See—*
Dyer, Robert F., 3,460,184.
Golloway, William O., Jr., 3,467,980.
Helm, Mark W., 3,467,977.
Segesman, Louis E., 3,426,381.
Hoover, Dorothy H., to Frandee Corporation. Baby wrapping blanket and hood. 3,477,065, 11-11-69, Cl. 2-69.5
Hoover, James E., to Rahn Corporation, The. Device for computing agate lines in newspaper advertisements. 3,458,126, 7-29-69, Cl. 235-71.
Hoover, James E., to GAF Corporation. Apparatus for liquid solvent sealing of plastic film cartridges. 3,479,986, 11-25-69, Cl. 118-2.
Hoover, Merwin Frederick; and Padden, John J., to Calgon Corporation, mesne. Thickened friction reducer for water-based oil well treating fluids. 3,442,803, 5-6-69, Cl. 252-8.55
Hoover, Merwin Frederick: *See—*
Schaper, Raymond J.; and Hoover, Merwin Frederick,3,486,932.
Hoover, Richard D.; and Kohler, George O., to Agri-Tech, Inc.Process of preparing high potency iodinated protein which comprises reacting said protein with $Ba(OH)_2$ at a temperature of at least 110°C. 3,455,894, 7-15-69, Cl. 260-119.
Hoover, Robert J.: *See—*
Gyorgak, Charles A.; and Hoover, Robert J.,3,469,436.
Hoover, William George, to Granger Associates. Transformer core construction. 3,454,916, 7-8-69, Cl. 336-60.
Hoover, William G., to Gronger Associates. High speed switching system. 3,449,591, 6-10-69, Cl. 307-136.
Hoovler, William S., to Communications, Inc. Multiplex package. 3,453,638, 7-1-69, Cl. 343-858.
Hooykaas, Henricus: *See—*
Van Daalen, Francois; Van Domselaar, Hans R.; and Hooykaas, Henricus,3,467,191.
Hope, George R., Jr.: *See—*
Broderick, William J.; Frasier, Carlton R.; Hittel, Lorenz A.; Hope, George R., Jr.; Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,483,520.
Hope, Henry F. Air pressure actuated switch for controlling the operation of a motor. 3,427,417, 2-11-69, Cl. 200-83.
Hope, James: *See—*
Betteridge, Walter; and Hope, James,3,438,178.
Hope Kabushiki Kaisha: *See—*
Hashioka, Tokuyasu, 3,421,772.
Hope Plastics Corp.: *See—*
Hope, William K., 3,424,880.
Hope, William F.: *See—*
Lang, Ernest U.; and Hope, William F.,3,474,654.
Hope, William Kenneth. Yarn spinning device. 3,430,430, 3-4-69, Cl. 57-76.
Hope, William K., to Hope Plastics Corp. Stop motion device. 3,424,880, 1-28-69, Cl. 200-61.18
Hopeman Brothers, Inc.: *See—*
Lehmann, Charles David; and Younger, Maurice Bowman, Jr., 3,473,834.
Hopengarten, Albert, to Electrosonics International, Inc. Receiver system having visual indicator for changes in electrical state. 3,480,863, 11-25-69, Cl. 324-133.
Hopf, Henry C.: *See—*
Goddard, William H.; and Hopf, Henry C.,3,484,893.
Hopf, Wilhelm, to Daimler-Benz Aktiengesellschaft. Servo drum brake for commerical type vehicles. 3,420,340, 1-7-69, Cl. 188-79.5
Hopfeld, Henry. Rung for a ladder and method of making the same. 3,477,544, 11-11-69, Cl. 182-228.
Hopka, Thomas, to Robbins, Jim, Seat Belt Co. Seat belt buckle. 3,467,995, 9-23-69, Cl. 24-77.
Hopka, Thomas; and Stoffel, Robert W., to Robbins, Jim, Seat Belt Co. Belt retracting device. 3,459,440, 8-5-69, Cl. 280-150.
Hopka, Thomas; and Stoffel, Robert W., to Robbins, Jim, Seat Belt Co. Linear retractor for safety seat belt. 3,472,552, 10-14-69, Cl. 297-388.
Hopka, Thomas; and Stoffel, Robert W., to Robbins, Jim, Seat Belt Co. Seat belt buckle. 3,473,201, 10-21-69, Cl. 24-205.17
Hopkin, Edmund A., to Shell Oil Company. Device for sampling fluids. 3,455,904, 7-15-69, Cl. 166-165.
Hopkins, Arnold R. Apparatus for processing poultry wings. 3,470,581, 10-7-69, Cl. 17-11.
Hopkins, Arnold R.; and Pindjak, Leo J. Safety credit card construction. 3,478,683, 11-18-69, Cl. 101-368.
Hopkins, Don J.; Munley, William J., Jr.; and Mackinnon, John, to Esso Research and Engineering Company. Process for improved sulfoxidation products. 3,454,479, 7-8-69, Cl. 204-158.
Hopkins, Edwin R.: *See—*
Teichmann, Friedrich; Jones, Roscoe L.; and Hopkins, Edwin R.,3,444,978.
Hopkins, John Edward, to Renold Limited. Tensioning devices for chains, belts and the like. 3,426,606, 2-11-69, Cl. 74-242.11
Hopkins, John G., to Stevens, J. P., & Co., Inc. Bulky plied yarn. 3,483,690, 12-16-69, Cl. 57-140.
Hopkins, John W.: *See—*
Roesky, Ralph R.; Gentry, Larry L.; and Hopkins, John W.,3,482,410.
Hopkins, Kenneth William, to British Petroleum Company Limited, The. Fluid-handling apparatus. 3,430,670, 3-4-69, Cl. 141-387.
Hopkins, Leland G., to Kelvinator, Inc., mesne. Counterbalanced hinge for oven doors. 3,450,125, 6-17-69, Cl. 16-139.
Hopkins, Leonard L., to Over-Lowe Company, Inc. Asphalt cutter wheel assembly. 3,472,554, 10-14-69, Cl. 299-40.
Hopkins, Leslie Arthur, to Hovercraft Development Limited. Plural cushion load transporter device. 3,444,951, 5-20-69, Cl. 180-121.
Hopkins, Leslie Arthur, to Hovercraft Development Limited. Apparatus for supporting strip material on a gas cushion. 3,478,864, 11-18-69, Cl. 198-204.
Hopkins, Leslie Arthur; and Harris, Benjamin Lewis, to National Research Development Corporation. Pressure resisting seal. 3,450,450, 6-17-69, Cl. 312-1.
Hopkins, Richard Bruce, to Deere & Company. Weather cap. 3,446,010, 5-27-69, Cl. 60-29.
Hopkins, Richard S. Joining of metal sheets so that when said joined sheets are viewed from one side, the illusion is created that they form one continuous metal sheet. 3,432,909, 3-18-69, Cl. 29-401.
Hopkins, Roger B. Forwardly folding eyeglass temples having ball and socket hinges. 3,476,466, 11-4-69, Cl. 351-115.
Hopkins, Thomas R.: *See—*
Hill, Robert W.; and Hopkins, Thomas R.,3,467,706.
Hopkinson, Eric C.; and Youmans, Arthur H., to Dresser Ubdystruesm Ubc. Radioactivity well logging system having a multiple conductor cable. 3,439,165, 4-15-69, Cl. 250-71.5
Hopkinson, Eric C.: *See—*
Youmans, Arthur H.; and Hopkinson, Eric C.,3,439,166.
Youmans, Arthur H.; and Hopkinson, Eric C.,3,487,294.
Hopkinson, Paul O. W., 1/2 to St. Barnabas' Free Home. Drafting instrument. 3,482,318, 12-9-69, Cl. 33-109.
Hopkinson, William C.; and Pecoraro, Ralph R., to Universal Oil Products Company. Beverage preparation and dispensing apparatus. 3,485,162, 12-23-69, Cl. 99-283.
Hopner, Emil: *See—*
Calfee, Richard W.; Hopner, Emil; Meyer, Orman F.; and West, Lynn P.,3,466,392.
Hopp, Gerhard. Periscope. 3,456,999, 7-22-69, Cl. 350-45.
Hopp, Gerhard. Periscope. 3,482,897, 12-9-69, Cl. 350-52.
Hopp, Hartwig: *See—*
Erler, Heinz; Reher, Bernhard; and Hopp, Hartwig,3,483,483.
Hopp, Helmut; and Zelle, Edgar, to Licentia Patent-Verwaltungs-G.m.b.H. Electric plug-in connector. 3,440,594, 4-22-69, Cl. 339-59.
Hoppe, Alfred, to Edeleanu Gesellschaft m.b.H. Method and apparatus for extracting a vaporizable component from a liquid. 3,421,567, 1-14-69, Cl. 159-16.
Hoppe, Alfred, to Edeleanu Gesellschaft m.b.H. Method of recovering pure solvents used in dewaxing mineral oils and the like by multistage distilla- ton of separate solvent streams. 3,448,016, 6-3-69, Cl. 203-76.
Hoppe, Clemens B. Apparatus for installing nondisplacement sand drains. 3,478,524, 11-18-69, Cl. 61-63.
Hoppe, Egon. Electromagnetical protective relay for three- phase receivers. 3,431,518, 3-4-69, Cl. 335-102.
Hoppe, Hans; and Scherzberg, Heinz, to Kali-Forschungsinstitut. Method for making alkali metal sulfate. 3,423,171, 1-21-69, Cl. 23-121.
Hoppe, Hans; Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang, to Kali-Forschungsinstitut. Obraining KCL from crude salts by equilibrating and diluting prior to precipitation. 3,440,023, 4-22-69, Cl. 23-297.

Hoppe, William: *See—*
Provost, Richard H.; Bartlo, John S.; and Hoppe, William,3,429,416.
Hoppel, Gary M.: *See—*
Gowdy, Eunice J.; and Hoppel, Gary M.,3,464,567.
Hoppen, Johannes, to North American Philips Company, Inc. Dishwasher spray apparatus with gradually increasing nozzle pressure. 3,432,103, 3-11-69, Cl. 239-255.
Hopper, Claude, Jr., to General Electric Company. Photosensitive device. 3,482,198, 12-2-69, Cl. 338-19.
Hopper, Elvin E. Trolling motor mount for inboard/outboard boats. 3,473,764, 10-21-69, Cl. 248-4.
Hopper, Harry G., Jr.: *See—*
Groteke, Daniel E.; and Hopper, Harry G., Jr.,3,421,573.
Hopper, Jack R.; and Corman, Blaine G., to Esso Research and Engineering Company. Non-thixotropic oil. 3,422,012, 1-14-69, Cl. 252-28.
Hopper, Nolan D.: *See—*
Brown, Paul M.; Hopper, Nolan D.; Kampf, Richard S.; and Lord, Walter V.,3,446,134.
Hopper, Theodore R.: *See—*
Lima, Daniel A.; and Hopper, Theodore R.,3,455,704.
Hopper, Thomas O. Water heating unit for stock tanks. 3,431,394, 3-4-69, Cl. 219-317.
Hoppers Company, Inc.: *See—*
Hornung, Klaus, 3,435,596.
Hoppes, Carlos D., to National Latex Products Company, The. Interchangeable indicia-forming device for blow- molded plastic articles. 3,474,498, 10-28-69, Cl. 18-35.
Hoppman Corporation: *See—*
Hoppmann, Kurt H., 3,445,159.
Hoppmann Corporation: *See—*
Hoppmann, Kurt H.; and Schober, Horst A., 3,486,818.
Hoppmann, Kurt H., to Hoppman Corporation. Multi-media projection system. 3,445,159, 5-20-69, Cl. 353-35.
Hoppmann, Kurt H.; and Schober, Horst A., to Hoppmann Corporation. Reversible slide projector. 3,486,818, 12-30-69, Cl. 353-118.
Hopps, Harvey B., to Aldrich Chemical Company, Inc., The. 4-(N-isobutyrylanilino)-1-benzylpiperidine. 3,452,030, 6-24-69, Cl. 260-294.
Hopps, Harvey B.: *See—*
Biel, John H.; and Hopps, Harvey B.,3,426,036.
Biel, John H.; and Hopps, Harvey B.,3,462,442.
Hopps, John Henry, Jr. Football blocking training apparatus. 3,424,458, 1-28-69, Cl. 273-55.
Hopwood, John Joseph; and Wluka, David Jankiel, to Balm Paints Limited. Process for preparing copolymers. 3,463,764, 8-26-69, Cl. 260-78.5
Hora, Heinrich; and Kronast, Benedikt, to Institut fur Plasmaphysik Gesellschaft mit beschrankter Haftung. Neutron pulse source. 3,444,377, 5-13-69, Cl. 250-84.5
Horabin, Ivan S.: *See—*
Edge, Gordon Malcolm; Eiloart, Timothy March Beaupre; Horabin, Ivan S.; and Rayner, Peter John Wynn,3,423,845.
Horai, John C.: *See—*
Beyard, Romayne M.; and Horai, John C.,3,420,690.
Horai Tekko Sho Co., Ltd.: *See—*
Takahashi, Keiichi, 3,459,381.
Horak, Frank A.: *See—*
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S.,3,434,828.
Horak, William; and Rowland, George Robert, to Emhart Corporation. Glass contact refractory and method of making the same. 3,437,499, 4-8-69, Cl. 106-57.
Horakova, Zdenka: *See—*
Mansfeld, Viktor; Hladovec, Josef; and Horakova, Zdenka,3,461,205.
Horan, John J. Piezo-electric high-voltage alternators and generators. 3,430,080, 2-25-69, Cl. 310-8.7
Horan, John J. Voltage-generation apparatus and ignition systems. 3,444,850, 5-20-69, Cl. 123-148.
Horan, John J. Monolithic electric lamps, mountable on cords and elsewhere. 3,445,720, 5-20-69, Cl. 315-58.
Horan, John J.; and Rudomanski, Andrew C., to RCA Corporation. Circuits for thermistor bolometer with increased responsivity. 3,487,213, 12-30-69, Cl. 250-83.3
Horan, Michael H. Cue ball angle computer including a curved mirror for indicating an impact point. 3,463,593, 8-26-69, Cl. 356-142.
Horan, Ralph P.: *See—*
Hass, David P.; and Horan, Ralph P.,3,476,225.
Horan, Raymond E., Jr., to Jacuzzi Bros., Incorporated. Jet propulsion drive for ships. 3,422,788, 1-21-69, Cl. 115-12.
Horan, Thomas J. Bulk handling of comestibles. 3,440,061, 4-22-69, Cl. 99-192.
Horanoff, Eugene V., to United States of America, Navy. Wind tunnel balance. 3,447,369, 6-3-69, Cl. 73-147.
Horberg, Charles, Jr., to Paramount Textile Machinery Co. Method and apparatus for packaging pliant, elongate articles. 3,431,696, 3-11-69, Cl. 53-24.
Horberg, Charles, Jr., to Paramount Textile Machinery Co. Hosiery boarding apparatus. 3,481,516, 12-2-69, Cl. 223-76.
Hordler, Gisbert: *See—*
Bippus, Walter; Ackermann, Horst; and Hordler, Gisbert,3,456,421.
Hore, Donald L.: *See—*
Fry, Jeremy J.; Hore, Donald L.; and Nott, Peter T.M.,3,475,000.
Horeczky, Geza E. Motion selector using ratio of responses of two photoelectric cells. 3,444,384, 5-13-69, Cl. 250-221.
Horeczy, Joseph T.: *See—*
Patton, Tad L.; Horeczy, Joseph T.; and Bown, Delos E.,3,477,991.
Horenburger, William E.: *See—*
Erb, George H.; Horenburger, William E.; Sanguinetti, Bradley E.; and Hayden, Edward F.,3,441,189.
Horeth, John M.; Howard, William D.; and Langenheim, Richard H., to Esso Production Research Company. Automatic mud log printout system. 3,462,761, 8-19-69, Cl. 346-1.
Horgan, Thomas B.: *See—*
De Claris, Nicholas; Greeson, James C., Jr.; and Horgan, Thomas B.,3,482,211.
Horgan, William J., Jr., to PPG Industries, Inc. Preglazed sliding panel. 3,425,163, 2-4-69, Cl. 49-425.
Horgan, William J., Jr., to PPG Industries, Inc. Thermally insulated wall construction. 3,435,579, 4-1-69, Cl. 52-400.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Mainsail outhaul. 3,452,700, 7-1-69, Cl. 114-104.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Jam cleat. 3,481,302, 12-2-69, Cl. 114-218.
Horgan, William J., Jr.: *See—*
Blum, Louis; and Horgan, William J., Jr.,3,441,253.
Blum, Louis; and Horgan, William J., Jr.,3,469,823.
Hori, Haruo: *See—*
Koda, Kenichi; Sato, Shui; Shoono, Masayuki; and Hori, Haruo,3,457,079.
Tsunoda, Takahiro; Yamaoka, Tsuguo; Itano, Kohei; and Hori, Haruo,3,486,900.
Hori, Hideo. Multiple key lock having change key mechanism. 3,431,757, 3-11-69, Cl. 70-383.
Hori, Masao; Fujimura, Tadato; Ohuchi, Yoshihiro; and Torigai, Kinichi, to Nihon Genshiryoku Kenkyo-Sho. Method of separating a dispersed phase from a mixed-phase fluid system by electromagnetic force. 3,466,154, 9-9-69, Cl. 23-317.
Hori, Shiro; and Fugono, Takeshi, to Takeda Chemical Industries, Ltd. Method for producing candied fruits. 3,482,995, 12-9-69, Cl. 99-102.
Hori, Takashi: *See—*
Sakai, Yoshinori; and Hori, Takashi,3,464,970.
Hori, Takeo, to Matsushita Electric Industrial Co., Ltd. Electric pencil sharpener. 3,486,540, 12-30-69, Cl. 144-28.5
Hori, Tatsu, to Gates Rubber Company, mesne. Method and means for forming a seed tape. 3,445,981, 5-27-69, Cl. 53-28.
Hori, Toshimitsu: *See—*
Moriyama, Kazuhiro; and Hori, Toshimitsu,3,429,336.
Nakamura, Hajime; Hori, Toshimitsu; and Sezaki, Kazuo,3,429,695.
Hori, Yasushi; and Kodama, Hisao, to Tokyo Shibaura Electric Co., Ltd. Switching mechanism of automatically reciprocating type magnetic tape recorder with selective interlocking between control knob and buttons. 3,454,731, 7-8-69, Cl. 200-50.
Horie, Misato: *See—*
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; and Horie, Misato,3,466,251.
Horie, Sadao: *See—*
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,428,651.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,440,245.
Horie, Yukio, to Dainihon Bungu Kabushiki Kaisha. Ballpoint pen for water-soluble ink. 3,446,564, 5-27-69, Cl. 401-209.
Horigome, Shinkichi: *See—*
Kitagawa, Hiroshi; Inoue, Toshio; Kurokawa, Susumu; and Horigome, Shinkichi,3,441,506.
Horiguchi, Shojiro; and Nakamura, Michiei. Method of making fluorescent compound bonded- polymers and polymers made thereby. 3,462,388, 8-19-69, Cl. 260-41.
Horiguchi, Shojiro; and Nakamura, Michiei. Method for making chromogen-bonded-fluorescent- bonded-polymers. 3,467,642, 9-16-69, Cl. 260-141.
Horiguchi, Tsutomu: *See—*
Ueda, Kenji; Horiguchi, Tsutomu; and Hirata, Minoru,3,458,413.
Horii, Shigeo: *See—*
Osaka, Matajiro; Uoda, Hidetaka; Horii, Shigeo; and Okuda, Minoru,3,442,605.

Horii, Shizuka, to Tateisi Electronics Co. Electromagnetic relay for switching an electric circuit. 3,480,892, 11-25-69, Cl. 335-132.
Horikawa, Toshio: *See—*
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira,3,458,987.
Horike, Akihiro: *See—*
Negishi, Eiichi; Horike, Akihiro; and Ishizuka, Yoshio,3,467,626.
Horio, Takamaro; and Tsugita, Masanobu, to Nippon Electric Company, Limited. Cathode ray tube bright spot eliminating circuit. 3,448,328, 6-3-69, Cl. 315-20.
Horiuchi, Hideo: *See—*
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide,3,437,633.
Horiuchi, Kotaro; and Takeshige, Akira, to Nippon Gakki Seizo Kabushiki Kaisha. Ski sled. 3,425,707, 2-4-69, Cl. 280-16.
Horiuchi, Kotaro; and Takeshige, Akira, to Yamaha Halsudoki Kabushiki Kaisha. Synthetic resin boat. 3,471,876, 10-14-69, Cl. 9-6.
Horix Manufacturing Company: *See—*
Wilhere, Charles V., 3,441,066.
Horizon Industries, Ltd.: *See—*
Engelsher, Harvey J.; and McKirby, Robert W., 3,477,686.
McKirdy, Robert W.; and Engelsher, Harvey J., 3,460,526.
McKirdy, Robert W.; and Engelsher, Harvey J., 3,460,789.
Horizons, Incorporated: *See—*
Fichter, Harry L., Jr., 3,450,532.
Fox, Robert D., 3,484,238.
Wainer, Eugene, 3,424,580.
Wainer, Eugene; and Shirey, John E., 3,481,739.
Horizons Research Incorporated: *See—*
Fichter, Harry L., Jr., 3,443,945.
Shirey, John E., 3,445,232.
Sicka, Richard W.; Rose, Selwyn H.; and Harkulich, Theodore M., 3,445,361.
Straughan, Virgil E., 3,455,758.
Wainer, Eugene; and Shirey, John E., 3,481,739.
Wainer, Eugnee, 3,486,898.
Horlacher, Joseph D. Side opening filing cabinet. 3,446,545, 5-27-69, Cl. 312-311.
Horlacher, Robert L.: *See—*
Creasy, Fred K.; Horlacher, Robert L.; Logan, Mason A.; Smith, Larrabee M.; and Young, William Rae, Jr.,3,440,337.
Horlander, Frank J., to United States of America, Navy, mesne. Pulse generator. 3,454,792, 7-8-69, Cl. 307-261.
Horlander, James F. (Frank J.): *See—*
Harbour, Wilmer Paul, Jr.; and Horlander, James F. (Frank J.),3,452,151.
Horlein, Walter, Metallwarenfabrik KG.: *See—*
Hornlein, Roland; and Domhan, Gerold, 3,444,828.
Horman, Alfred E., to Palletizer Corporation. Loading machine. 3,434,603, 3-25-69, Cl. 214-6.
Hormann, Frank R. Rotary electric current interrupter. 3,435,388, 3-25-69, Cl. 335-68.
Hormel, Geo. A., & Company: *See—*
Burton, Jean A.; Geppert, Robert J.; Farmer, James L.; and Mathis, Joseph J., 3,430,831.
Krachmer, Robert C., 3,421,434.
Lindstrom, Oscar H.; and Clark, Neil M., 3,470,668.
Macy, Christian D.; and Butler, Harold B., 3,431,118.
Tonjum, John A., 3,473,465.
Horn, Delton A. Spindle straightening method and apparatus. 3,481,176, 12-2-69, Cl. 72-386.
Horn, Elmar-Manfred: *See—*
Niederprum, Hans; Horn, Elmar-Manfred; and Simmler, Walter,3,458,553.
Niederprum, Hans; Simmler, Walter; and Horn, Elmar-Manfred,3,446,830.
Horn, Federick G. Smoking pipe reamer. 3,456,654, 7-22-69, Cl. 131-246.
Horn, Ferrell S. Multiple hypodermic syringe arrangement. 3,467,096, 9-16-69, Cl. 128-218.
Horn, Fordyce H., to General Electric Company. Method of analyzing materials to determine the impurity content thereof. 3,432,753, 3-11-69, Cl. 324-71.
Horn, Heinz: *See—*
Schumann, Eduard; and Horn, Heinz,3,465,897.
Horn, John D., to P & H Educational Aids. Device for illustrating basic mathematical principles, operations, and equations. 3,486,244, 12-30-69, Cl. 35-31.
Horn, John M., to Allis-Chalmers Manufacturing Company. Free dischange valve. 3,469,792, 9-30-69, Cl. 239-456.
Horn, Kurt, to Heckler & Koch G.m.b.H. Actuating device for automatic firearms. 3,427,925, 2-18-69, Cl. 89-136.
Horn, Kurt, to Honeywell Inc. Control apparatus. 3,481,299, 12-2-69, Cl. 114-144.
Horn, Lutz; Phillip, Fritz; and Haake, Heinz, to Varta Aktiengesellschaft. Process for enveloping battery electrode plates in separators. 3,442,717, 5-6-69, Cl. 136-176.
Horn, Richard A.: *See—*
Bouchard, Richard; Billings, Philip; and Horn, Richard A.,3,423,626.
Horn, Robert D.: *See—*
Dewey, Donald E.; Hartman, Charles H.; Horn, Robert D.; and McCartney, Talmadge O.,3,422,537.
Hornak, John N., to United States Steel Corporation. Continuously cast steel slabs and method of making same. 3,459,537, 8-5-69, Cl. 75-49.
Hornak, Tomas, to Vyzkumny ustav matematickych stroju. Synchronized random sampling oscilloscope. 3,456,189, 7-15-69, Cl. 324-121.
Hornak, Tomas, to Vyzkumny ustav matematickych stroju. Apparatus for automatically measuring the reverse recovery transient of a semiconductor diode. 3,462,685, 8-19-69, Cl. 324-158.
Hornak, Tomas, to Vyzkumny ustav Matematickych stroju. Asynchronous sampling oscilloscope having an arbitrary display rate. 3,473,123, 10-14-69, Cl. 324-121.
Hornback, Robert H.: *See—*
Wolverton, Kenneth H.; and Hornback, Robert H.,3,443,406.
Hornbeck, Robert F., to United States of America, Atomic Energy Commission. Graft-copolymer column support material for liquid-liquid partition chromatography. 3,478,886, 11-18-69, Cl. 210-198.
Hornbruch, Raymond E., to Refractory & Insulation Corporation. Stitching apparatus. 3,473,577, 10-21-69, Cl. 140-93.
Horne, Benjamin: *See—*
Trickett, Terrance; Zepp, Donald J.; Horne, Benjamin; and Brill, Thomas,3,445,635.
Horne, Dorothy H., to Dow Chemical Company, The. Substituted trihalopyrazines. 3,452,016, 6-24-69, Cl. 260-250.
Horne, George Burchard: *See—*
Butters, Lamont Chester; and Horne, George Burchard,3,459,443.
Horne, William H.: *See—*
Findlay, Hugh T.; and Horne, William H.,3,463,697.
Findlay, Hugh T.; and Horne, William H.,3,485,903.
Hornemann, Arno. Anti-backflow drainage system. 3,478,882, 11-18-69, Cl. 210-104.
Horner, David Christopher: *See—*
Chapman, James; and Horner, David Christopher,3,426,009.
Horner, Frank W., Limited: *See—*
Marinier, Bernard, 3,448,141.
Marinier, Bernard, 3,448,142.
Marinier, Bernard, 3,448,143.
Horner, Harry C. Ice fishing alarm system. 3,470,647, 10-7-69, Cl. 43-17.
Horner, Leopold; and Neumann, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Electrolytic process for splitting aromatic carboxylic acid amides and sulfonic acid amides. 3,434,944, 3-25-69, Cl. 204-59.
Horner, Leopold; Neumann, Heinz; and Geiger, Rolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Electrolytic process for the cleavage of thiol esters of aromatic carboxylic acids. 3,431,186, 3-4-69, Cl. 204-73.
Horner, Terence P., to Plessey Company Limited, The. Static inverter with pulse-width modulation regulation. 3,443,196, 5-6-69, Cl. 321-5.
Hornfeck, Anthony J.; Koppel, Harold H.; and Louis, John R., to Bailey Meter Company. Control system. 3,479,492, 11-18-69, Cl. 235-151.1
Hornig, Lothar: *See—*
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese,3,439,044.
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese,3,470,230.
Probst, Otto; Hornig, Lothar; and Hirsch, Lothar,3,441,597.
Hornig, Lothar; Grosspietsch, Horst; Mau, Gunter; and Hirsch, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing allyl chloride and its monomethyl-substitution products. 3,462,502, 8-19-69, Cl. 260-654.
Hornig, Lothar; Hirsch, Lothar; and Mau, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing allyl chloride and its monomethyl-substitution products. 3,454,661, 7-8-69, Cl. 260-654.
Hornig, Lothar; and Mau, Gunter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing allyl chloride and its monomethylsubstitution products. 3,462,501, 8-19-69, Cl. 260-654.
Hornig, Lothar; Mau, Gunther; and Hirsch, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of 1,2-dichlorethane. 3,475,505, 10-28-69, Cl. 260-659.
Hornig, Lothar; and Neu, Hermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for work-

ing up aqueous solutions containing a glycol ether and hexadienic acids. 3,448,147, 6-3-69, Cl. 260-526.
Hornig, Lothar; and Neu, Hermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing sorbic acid and its salts. 3,461,158, 8-12-69, Cl. 260-501.1
Horning, Don O.: *See*—
Goodman, Richard E.; Horning, Don O.; and Harlamoff, Anatol J.,3,446,062.
Horning, Donald E., to Bristol-Myers Company, mesne. Certain spiro butyrolactones. 3,484,457, , Cl. 260-343.6
Horning, Frederick G., to Salem Tool Company, The. Auxiliary drive unit to align auger drive socket with auger pin in mining assembly. 3,435,928, 4-1-69, Cl. 192-0.096
Horning, Lothar: *See*—
Mau, Gunther; and Horning, Lothar,3,426,085.
Probst, Otto; Horning, Lothar; Hirsch, Lothar; and Gosse, Helmut,3,445,509.
Horning, Norman G., to Control Data Corporation. Skew correction arrangement for parallel track readout devices. 3,451,049, 6-17-69, Cl. 340-174.1
Hornle, Reinhold: *See*—
Wolf, Karlheinz; Haus, Arthur; Mager, Theodor; Hornle, Reinhold; and Bechlars, Franz,3,458,804.
Hornlein, Roland; and Domhan, Gerold, to Horlein, Walter, Metallwarenfabrik KG. Mould frame. 3,444,828, 5-20-69, Cl. 107-19.
Hornlein, Roland; and Domhan, Gerold, to Hornlein, Walter Metallwarenfabrik. Two-stage edge-folding machine for foil-wrapped items. 3,447,285, 6-3-69, Cl. 53-393.
Hornlein, Walter Metallwarenfabrik: *See*—
Hornlein, Roland; and Domhan, Gerold, 3,447,285.
Hornsby, Guyton Ellis. Air cushion shock absorber for bicycles, motorcycles and similar vehicles. 3,459,441, 8-5-69, Cl. 280-276.
Hornung, Klaus, to Hoppers Company, Inc., mesne. Gas cleaning apparatus for coke oven batteries. 3,435,596, 4-1-69, Cl. 55-223.
Hornung, Louis M.: *See*—
Blevins, Parker R.; Heard, Roderick S.; and Hornung, Louis M.,3,461,430.
Cox, Cecil Wayne; and Hornung, Louis M.,3,426,185.
Hornung, Michael C., to American Products, Inc. Single bar breaker for earth crust. 3,464,498, 9-2-69, Cl. 172-429.
Hornung, Stephen A.; and Reed, Buckley, to White, K. M., Company. Top of car selector for use in an elevator control system. 3,435,917, 4-1-69, Cl. 187-29.
Hornung, Verdung: *See*—
Kuhn, Henry S.; and Hornung, Verdung,3,474,822.
Horobin, Dennis, to Wickman Machine Tool Sales Limited. Automatic machine tools. 3,481,230, 12-2-69, Cl. 82-2.
Horodecky, Jerry: *See*—
Kopacki, Adam F.; and Horodecky, Jerry,3,424,715.
Horodko, Romuald; Rzuchowska, Ida; Szajng, Danuta; Walewska, Kazimiera; and Zukowska, Maria, to Coopexim, Spoldzielcze Przedsiebiorstwo Handlu Zagranicznego. Elastic hanger. 3,484,070, 12-16-69, Cl. 248-317.
Horoldt, Ernst: *See*—
Landauer, Franz; Beermann, Claus; and Horoldt, Ernst,3,470,287.
Horoldt, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing filaments from β-polyamides. 3,445,557, 5-20-69, Cl. 264-210.
Horompo, Erno, to Demag Industrial Equipment Limited. Locking mechanism. 3,468,264, 9-23-69, Cl. 104-98.
Horowitz, Charles: *See*—
Berg, Arthur A.; and Horowitz, Charles,3,476,019.
Horowitz, Frederick: *See*—
Miller, Lewis S.; and Horowitz, Frederick,3,476,695.
Horowitz, Hugh H.: *See*—
Beltzer, Morton; and Horowitz, Hugh H.,3,441,443.
Prager, Manfred J.; and Horowitz, Hugh H.,3,423,246.
Horowitz, Norman: *See*—
Adler, Hans; Horowitz, Norman; and Spigner, Philip,3,436,156.
Adler, Hans; Horowitz, Norman; and Spigner, Philip,3,436,157.
Horowitz, Robert M.; and Gentili, Bruno, to United States of America, Agriculture. Preparation of hesperetin dihydrochalcone glucoside. 3,429,873, 2-25-69, Cl. 260-210.
Horrell, Glora M.,: *See*—
Morris, William Whitby, 3,482,807.
Horrobin, Paul M., to Lovell Manufacturing Company. Wringer with instinctive release of roll pressure and drive. 3,466,903, 9-16-69, Cl. 68-253.
Horrocks, Donald L.; and Wirth, Hermann O., to United States of America, Atomic Energy Commission. 2-Aryl indoles and methods for their use. 3,478,208, 11-11-69, Cl. 250-71.5
Horrom, Bruce Wayne; and Crovetti, Aldo Joseph, to Abbott Laboratories. Propargyl benzamides. 3,481,979, 12-2-69, Cl. 260-558.
Horsch, Joachim: *See*—
Golan, Kenneth F.; Pearce, Shairyl I.; and Horsch, Joachim,3,452,621.
Horsch, Joachim, to Caterpillar Tractor Company. Plural independent signal producing hydraulic governor. 3,450,144, 6-17-69, Cl. 137-54.
Horsch, Joachim; Johnson, Lowell E.; and Pearce, Shairyl I., to Caterpillar Tractor Company. Power transmission. 3,424,029, 1-28-69, Cl. 74-664.
Horsch, Joachim; and Ohaver, David S., to Caterpillar Tractor Company. Hydraulic pressure modulating transmission control system. 3,468,194, 9-23-69, Cl. 74-753.
Horsey, Sydney F.; and Tyler, William J. L., to Canadian Bronze Company Limited. Railroad boxcar heater system. 3,432,097, 3-11-69, Cl. 237-5.
Horsfall, Geoffrey Alan: *See*—
McIntyre, James Eric; Robertson, Michael Mundie; and Horsfall, Geoffrey Alan,3,473,956.
Robertson, Michael Mundie; and Horsfall, Geoffrey Alan,3,464,947.
Robertson, Michael Mundie; and Horsfall, Geoffrey Alan,3,479,212.
Horsfall, Harry: *See*—
Hull, Charles Hartley; and Horsfall, Harry,3,456,736.
Horsfall, Robert B.; Farrand, William A.; and Marcum, Norman E., to North American Rockwell Aviation Corporation. Prestressed sheets for supporting members. 3,462,817, 8-26-69, Cl. 29-116.
Horsfall, Robert B.: *See*—
Farrand, William A.; Horsfall, Robert B.; Williams, Warner D.; and Marcum, Norman E.,3,482,232.
Farrand, William A.; and Horsfall, Robert Bruce,3,454,857.
Horsfalls, Robert B.; and Farrand, William A., to North American Rockwell Corporation. Fluid alignment bearing for support members. 3,465,323, 9-2-69, Cl. 340-174.1
Horsky, Theodore, Jr. Fruit handling device. 3,464,529, 9-2-69, Cl. 193-7.
Horsley, Geoffrey Winton, to United Kingdom Atomic Energy Authority. Manufacture of nuclear fuel. 3,457,334, 7-22-69, Cl. 264-0.5
Horsley, Jack O., to Concast Incorporated, mesne. Capping device. 3,446,268, 5-27-69, Cl. 164-274.
Horsley, Lee H., to Dow Chemical Company, The. Process for making glycol esters. 3,433,824, 3-18-69, Cl. 260-476.
Horsley, Lee H., to Dow Chemical Company, The. Process for making thioethers. 3,440,287, 4-22-69, Cl. 260-609.
Horsley, William Douglass, to Parsons, C. A., & Company Limited. Cooling arrangement for dynamo-electirc machine rotor windings and shaft mounted exciter. 3,457,440, 7-22-69, Cl. 310-52.
Horst, Raymond W.: *See*—
Soukup, Victor G.; and Horst, Raymond W.,3,477,900.
Horst, Robert L., to Armstrong Cork Company. Stacked dielectric disc lens having differing radial dielectric gradations. 3,427,627, 2-11-69, Cl. 343-911.
Horst, Robert L., to Armstrong Cork Company. Spherical luneberg lens. 3,470,561, 9-30-69, Cl. 343-911.
Horst, William R.: *See*—
Coil, Stanley F.; and Horst, William R.,3,442,586.
Horster, Horst: *See*—
Frohner, Klaus; Horster, Horst; Lydtin, Hans Jurgen; and Reifenschweiler, Otto,3,479,550.
Horster, Horst; and Pennekamp, Jan Christiaan, to U.S. Philips Corporation. Projection lamp with a wire screen for blackening prevention. 3,458,746, 7-29-69, Cl. 313-113.
Horster, Horst; and Pennekamp, Jan Christiaan, to U.S. Philips Corporation, mesne. Screen for lamp filament. 3,471,737, 10-7-69, Cl. 313-240.
Horstine Farmery Limited: *See*—
Farmery, Horstine, 3,478,936.
Horstman, Clifford C., to Westinghouse Electric Corporation. Transformer with a laminated core. 3,456,224, 7-15-69, Cl. 336-211.
Horstman, Robert L., to McKinney Manufacturing Company. Two-part hinge with integral pin. 3,423,787, 1-28-69, Cl. 16-178.
Horstmann, Walter: *See*—
Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus,3,480,611.
Horstmann, Walter; and Siegel, Edgar, to Farbenfabriken Bayer Aktiengesellschaft. Disazo dyestuffs. 3,467,643, 9-16-69, Cl. 260-160.
Schundehutte, Karl-Heinz; Trautner, Kersten; Horstmann, Walter; and Jager, Horst,3,484,450.
Horstmann, Winfried; and Krause, Gerhard, to Fernseh GmbH. Television synch signal error compensating circuit arrangement. 3,454,719, 7-8-69, Cl. 178-69.5
Hort, Eugene V.: *See*—
Grosser, Frederick; and Hort, Eugene V.,3,459,720.
Horta, Luis Congost. Shooting game employing moving targets. 3,477,722, 11-11-69, Cl. 273-101.
Hortmann, Walter Erich; and Hortmann, Werner Karl. Precision drafting apparatus. 3,473,228, 10-21-69, Cl. 33-110.
Hortmann, Werner Karl: *See*—
Hortmann, Walter Erich; and Hortmann, Werner Karl,3,473,228.
Horton Automatics, Inc.: *See*—
Hewitt, Lew V., 3,455,058.

Hewitt, Lew V.; and Horton, Dee D., 3,464,159.
Horton, Billy M.: *See*—
Bowles, Romald E.; and Horton, Billy M.,3,446,078.
Horton, Billy M. Fluid-operated system. 3,425,430, 2-4-69, Cl. 137-81.5
Horton, Dee D.: *See*—
Hewitt, Lew V.; and Horton, Dee D.,3,464,159.
Horton, Donelson B.; and Cagle, Eugene C., to Blue, John, Company, Incorporated. Tank fittings. 3,435,846, 4-1-69, Cl. 137-590.
Horton, Donelson B.; and Downing, Harvey T., to Blue, John, Company, a division of Subscription Television, Inc. Calibrator for agricultural sprayers. 3,451,252, 6-24-69, Cl. 73-1.
Horton, Donelson B.; and Nunn, Earnest W., to Blue, John, Company, a division of Subscription Television, Inc. Row crop drop. 3,478,967, 11-18-69, Cl. 239-588.
Horton, Donelson B.: *See*—
Blue, John; Riddle, Carl B.; and Horton, Donelson B.,3,472,454.
Horton, Edward E., to Ocean Science and Engineering, Inc. Drill pipe stabilizing apparatus. 3,469,820, 9-30-69, Cl. 254-172.
Horton, Edward E., to Ocean Science and Engineering, Inc. Hydropneumatic salvage system. 3,472,191, 10-14-69, Cl. 114-52.
Horton, Emmett J.: *See*—
Stefan, John P.; and Horton, Emmett J.,3,428,035.
Horton, Francis B. Folding and stacking door means. 3,435,877, 4-1-69, Cl. 160-206.
Horton, Frederick B. Apparatus for packaging small objects. 3,435,589, 4-1-69, Cl. 53-390.
Horton, Gilbert; Ruth, Wayne A.; and Cox, Clarence, to Control Data Corporation, mesne. Rounded corner card cutter. 3,433,107, 3-18-69, Cl. 83-117.
Horton, Herbert C. Hexagonal T-nuts. 3,456,549, 7-22-69, Cl. 85-32.
Horton, Herbert D. Automatic gate device. 3,429,074, 2-25-69, Cl. 49-286.
Horton, James A.: *See*—
Hansen, Wilford N.; and Horton, James A.,3,439,968.
Horton, John F., Jr., to Cored Panels, Inc. Pallet structures and methods for their use. 3,434,434, 3-25-69, Cl. 108-51.
Horton, John W.; and Lynch, Robert J. Multi-layer PN junction semiconductive flying spot generator. 3,480,830, 11-25-69, Cl. 315-169.
Horton, Richard H.: *See*—
Hagen, Kenneth G.; and Horton, Richard H.,3,475,838.
Horton, Robert A.: *See*—
Watts, Claude H.; and Horton, Robert A.,3,424,227.
Horton, Robert C., to Branson Instruments, Incorporated. Fastener for holding flexible sheet material and method for retaining such material. 3,462,803, 8-26-69, Cl. 24-150.
Hortsman, Robert L., to McKinney Manufacturing Company. Two part hinge with two hinge pins. 3,422,488, 1-21-69, Cl. 16-65.
Hortvet, Douglas R.; and Bennett, Norman C., to Smith, A. O., Corporation. Paint pumping system. 3,424,092, 1-28-69, Cl. 103-50.
Horvat, Ivan, to Patelhold Patentverwertungs- und Elektro-Holding AG. Direct current regulated power supply. 3,445,752, 5-20-69, Cl. 323-22.
Horvat, Ivan, to Aktiengesellschaft Brown, Boveri & Cie. D. C. to D. C. voltage divider utilizing transistor bridge. 3,450,979, 6-17-69, Cl. 323-18.
Horvath, Attila: *See*—
Baumann, Hans; Erni, Edoardo; and Horvath, Attila,3,462,159.
Horvath, Bert, to Phillips Petroleum Company. Plasma activation of catalysts. 3,485,771, 12-23-69, Cl. 252-430.
Horvath, Elizabeth G., to Phillips Petroleum Company. Method for making halogenated bis(phenylthio) benzenes. 3,429,932, 2-25-69, Cl. 260-609.
Horvath, Ernest A.; and Joyal, Leo T., to Reliance Electric and Engineering Company, The. Take-up bearing support. 3,442,559, 5-6-69, Cl. 308-15.
Horvath, Joseph L.: *See*—
Schultz, Roger O.; and Horvath, Joseph L.,3,464,710.
Horvath, Laszlo: *See*—
Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo,3,483,523.
Horvath, Lorand: *See*—
Ban, Tamas; Horvath, Lorand; Kaffka, Karoly; and Nadai, Bela,3,453,438.
Horvath, Robert A., to General Motors Corporation. Dual flywheel anti-lock sensing unit. 3,433,535, 3-18-69, Cl. 303-21.
Horvath, Robert M., to Goodyear Aerospace Corporation. Method to achieve the logical exclusive or and equality functions with cross-field switching. 3,425,045, 1-28-69, Cl. 340-174.
Horvath, Roland J.; Parsons, Charles G.; and Zettler, Toby T., to Diamond Shamrock Corporation. Process for treating sewage. 3,445,383, 5-20-69, Cl. 210-62.
Horvath, Stephen R., Jr.: *See*—
Boehm, George L.; and Horvath, Stephen R., Jr.,3,422,993.
Horvath, Steven J., to NRM Corporation. Traversing unit. 3,472,467, 10-14-69, Cl. 242-158.2
Horvath, Tibor, 1/8 each to Janson, Heino, and Papi, Gene A. Torque generator. 3,439,548, 4-22-69, Cl. 74-5.34
Horville Engineering Company, Limited: *See*—
Berryman, Ronald Arthur, 3,420,379.
Horvitz, David; Shaw, Robert J.; and Baugh, William D., to National Distillers and Chemical Corporation. Manufacture of interhalogen compounds and halogenoids. 3,423,175, 1-21-69, Cl. 23-205.
Horwitt, Laurence G., to Casco Products Corporation. Cigar lighter receptacle. 3,424,414, 1-28-69, Cl. 248-27.
Horwitt, Laurence G., to Casco Products Corporation. Cigar lighter. 3,433,928, 3-18-69, Cl. 219-267.
Horwitt, Laurence G., to Casco Products Corporation. Electric cigar lighter. 3,439,148, 4-15-69, Cl. 219-265.
Horwitt, Laurence G., to Casco Products Corporation. Portable tire inflator. 3,448,779, 6-10-69, Cl. 141-38.
Horwitz, Norman H., 1/2 to Lofstrom, James E. Spark imaging device. 3,461,293, 8-12-69, Cl. 250-83.6
Horwood, Bruce: *See*—
Pyne, Humphrey Walter; Horwood, Bruce; and Wilson, Robin Burnell,3,439,477.
Horwood, John Maurice; Gunter, Allen; and Fry, Albert John, to Imperial Chemical Industries, Limited. Method of unwinding yarn from packages arrayed in series. 3,428,269, 2-18-69, Cl. 242-128.
Horwood, Norman; and Gray, Alexander, to Gray Horwood Engineering Limited. Instruments. 3,477,296, 11-11-69, Cl. 73-406.
Horwood, Norman; Gray, Alexander; and Nevill, James Irving, to Gray Horwood Engineering Limited. Differential pressure gauge. 3,442,133, 5-6-69, Cl. 73-407.
Hosaka, Shuntaro: *See*—
Wakamatsu, Shigeru; and Hosaka, Shuntaro,3,475,305.
Wakamatsu, Shigeru; and Hosaka, Shuntaro,3,483,103.
Hosaka, Takeshi: *See*—
Yoshida, Hisashi; Sakamoto, Yuzaburo; and Hosaka, Takeshi,3,428,872.
Hosbach, William A. Tool for lock rings. 3,470,600, 10-7-69, Cl. 29-243.57
Hosch, Ludwig: *See*—
Kretz, Robert; and Hosch, Ludwig,3,457,180.
Hoschler, Hans, to Siemens Aktiengesellschaft. Circuit for impulse-wise energy transmission, epecially for time multiplex exchange systems. 3,461,243, 8-12-69, Cl. 179-15.
Hoschler, Hans; and Kraus, Gunther, to Siemens Aktiengesellschaft. Circuit for two-way pulse transmission of intelligence via plural multiplex channels particularly with provision for switchover to single channel operation. 3,449,520, 6-10-69, Cl. 179-15.
Hosciowicz, Marian: *See*—
Nagowski, Jerzy Leslaw; and Hosciowicz, Marian,3,448,399.
Hose, Alexander V.: *See*—
Grigsby, Charles E.; Long, Chester L.; and Hose, Alexander V.,3,437,111.
Hose, Alexander V.; and Prescott, Norman F., to Atwood & Morrill Co. Shut-off valve. 3,428,090, 2-18-69, Cl. 137-630.14
Hosea, Everett E.: *See*—
Jones, Gordon H.; and Hosea, Everett E.,3,465,615.
Hoseason, Harry Joseph; and Packman, Walter R., to Bargar Metal Fabricating Company. Trench duct assembly with adjustable lid supporting members. 3,435,568, 4-1-69, Cl. 52-221.
Hosek, William S., to Thiokol Chemical Corporation. Hermetic seal. 3,472,284, 10-14-69, Cl. 138-89.
Hosek, William S., to Thiokol Chemical Corporation. Hermetically sealed valve means. 3,478,760, 11-18-69, Cl. 137-68.
Hosford, Harry W., to Harco Corporation. Cathodic protection system. 3,475,311, 10-28-69, Cl. 204-196.
Hoshall, Thomas C. Display case. 3,475,070, 10-28-69, Cl. 312-117.
Hoshi, Hiroshi: *See*—
Susuki, Rinnosuke; and Hoshi, Hiroshi,3,430,845.
Hoshi, Kinji; and Wakamiya, Kinji, to Sony Corporation. Isolation structure for integrated circuit. 3,471,754, 10-7-69, Cl. 317-235.
Hoshi, Yuji; and Kaneko, Akira, to Kureha Kagaku Kogyo Kabushiki Kaisha. Non-toxic compositions comprising vinyl chloride resin, metal salts and rosin or ester thereof. 3,442,838, 5-6-69, Cl. 260-23.
Hoshikawa, Masakatsu: *See*—
Adachi, Kazuo; Kawai, Masahisa; and Hoshikawa, Masakatsu,3,433,790.
Hoshino, Maroshi: *See*—
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshino, Maroshi,3,441,750.
Hoshino, Mashiro: *See*—
Ikeda, Yutaka; Hoshino, Mashiro; and Kuroki, Hayashi,3,457,615.
Hoshino, Takao: *See*—
Yamada, Hirosuke; Shishido, Kyoji; Hoshino, Takao; Kobayashi, Seizaburo; and Sato, Isami,3,462,412.
Hoshino, Tetsuo: *See*—
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo,3,474,109.
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo,3,487,051.
Hoshnio, Maroshi: *See*—
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshnio, Maroshi,3,437,839.

Hosker, Gerald R., to American Gage & Machine Company. Digital readout device with light guides. 3,467,960, 9-16-69, Cl. 340-378.
Hoskins, Edward H.; and Terhune, Ralph D., to Bowser, Inc. Vacuum filter. 3,481,479, 12-2-69, Cl. 210-484.
Hoskins Manufacturing Company: *See*—
Sibley, Forbes S.; and Spooner, Norman F., 3,457,122.
Hoskins, Raymond H.; and Soffer, Bernard H., to Union Carbide Corporation. Solid state laser device using gadolinium oxide as the host material. 3,427,566, 2-11-69, Cl. 331-94.5
Hoskins, Raymond H.: *See*—
Soffer, Bernard H.; and Hoskins, Raymond H.,3,470,492.
Hoskins, Robert J.; and Vecsey, Louis R., to Entoleter, Inc. Centrifugal impact mill. 3,452,937, 7-1-69, Cl. 241-47.
Hoskins,Thomas A.; and Klein, Walter F., to International Business Machines Corporation. Record entry positioner. 3,447,743, 6-3-69, Cl. 234-129.
Hoskinson, Gordon Hillis, to Cornell-Hoskinson Mfg. Corp. Trash burner charging apparatus. 3,428,198, 2-18-69, Cl. 214-29.
Hoskinson, John D.; and York, Monte H., to Goodyear Tire & Rubber Company, The. Non-discoloring composite polyurethane foam and skin-forming material. 3,446,694, 5-27-69, Cl. 161-160.
Hosler, Peter, to Sun Oil Company. Fermentation of hydrocarbons. 3,458,399, 7-29-69, Cl. 195-28.
Hosman, James Harvey, Jr.; and Schimmel, Morry Leon, to McDonnell Douglas Corporation. Pressure and load control for propellant actuated device. 3,484,846, 12-16-69, Cl. 60-26.1
Hosnedl, Vaclav; and Nechleba, Miroslav, to CkD Blansko, narodni podnik. Hydraulic apparatus. 3,433,165, 3-18-69, Cl. 103-97.
Hosoda, Hiroshi: *See*—
Noguchi, Yuichi; Uno, Tetsuo; Kubota, Yoshita; and Hosoda, Hiroshi,3,436,308.
Hosoda, Katsutoshi: *See*—
Nakajo, Shogo; Sano, Shiro; Nagoshi, Kazuo; and Hosoda, Katsutoshi,3,481,765.
Hosoda, Yoshimi: *See*—
Campbell, Trevor G.; Coogan, Lawrence P.; and Hosoda, Yoshimi,3,434,738.
Hosoi Susumu: *See*—
Watanabe, Jun; Hosoi Susumu; Izawa, Hiroaki; Sawai, Tadashi; and Kawakami, Koichiro,3,428,494.
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa,3,440,105.
Hosokawa, Etsuo: *See*—
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo,3,474,109.
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo,3,487,051.
Hosokawa, Masuo; and Tomon, Eiichi, said Tomon assignor to said Hosokawa. Continuous mixing machine. 3,430,924, 3-4-69, Cl. 259-6.
Hosono, Hiroo; and Nagahiro, Michinori, to Matsushita Electric Industrial Co., Ltd. Magnetic recording and reproducing apparatus. 3,480,230, 11-25-69, Cl. 242-191.
Hosoya Kako Co., Ltd.: *See*—
Hattori, Ichiro, 3,449,777.
Hossaka, Takuji: *See*—
Jinushi, Osamu; Hasegawa, Yoshio; and Hossaka, Takuji,3,421,246.
Hossmann, Marcel K., to Albiswerk Zurich A.G. Apparatus for determining the relative index of refraction of light permeable substances. 3,472,598, 10-14-69, Cl. 356-107.
Hostal, John J. Apparatus for measuring distances between theoretical points of intersection of surfaces. 3,423,838, 1-28-69, Cl. 33-169.
Hostalek, Zdenek: *See*—
Paleckova, Frantisek; Hostalek, Zdenek; and Rehacek, Zdenek,3,434,930.
Hosterman, Evalyn F.: *See*—
Chen, Catherine S. H.; Hosterman, Evalyn F.; and Stamm, Robert F.,3,423,161.
Hostetler, Donald E., to Rexall Drug and Chemical Company, mesne. Thermal degradation of ethylene/propylene block copolymers. 3,435,095, 3-25-69, Cl. 260-878.
Hostetler, Donald E., to Dart Industries, Inc., mesne. Propylene polymer and oxygenated polyethylene- metal complex polymer compositions. 3,458,462, 7-29-69, Cl. 260-23.
Hostetler, Donald E., to Dart Industries Inc. Polypropylene block copolymer and process. 3,478,130, 11-11-69, Cl. 260-878.
Hostetler, Willard E.: *See*—
Fischer, James L.; and Hostetler, Willard E.,3,447,096.
Hostettler, Fritz; and Cox, Eugene F., to Union Carbide Corporation. Cyanoalkylated cyclic carbonates. 3,422,118, 1-14-69, Cl. 260-340.2
Hostettler, Fritz; and Cox, Eugene F., to Union Carbide Corporation. Organic cyclic carbonates. 3,426,042, 2-4-69, Cl. 260-340.2
Hostettler, Hans U., to Eastman Kodak Company. Irradiation of aminocyclobutanones. 3,466,236, 9-9-69, Cl. 204-158.
Hotchkiss, Thomas W., to Eldorado Tool & Mfg., Corp. Hydraulic flow monitoring device. 3,431,375, 3-4-69, Cl. 200-82.
Hotelling , Eric B., to Yoo-Hoo Chocolate Beverage Corporation. Stabilized chocolate beverages. 3,486,905, 12-30-69, Cl. 99-25.
Hotine, William, to General Dynamics Corporation. Infrared sensitive photoconductive matrix. 3,435,222, 3-25-69, Cl. 250-83.3
Hotko, Edward Alexander; and Lachman, Leon, to Ciba Corporation. Gradual-release tablet. 3,456,049, 7-15-69, Cl. 424-22.
Hott, Ion V. K., to Joyce-Cridland Company, The. Steering arrangement for three-wheeled scooter type vehicle. 3,447,623, 6-3-69, Cl. 180-25.
Hott, Ion V. K.: *See*—
Haddix, Robert J.; and Hott, Ion V. K.,3,467,138.
Hottel, Hoyt Clarke, Jr., to Buzzards Corporation, The. Apparatus including a conductivity probe for determining the salinity of water. 3,479,580, 11-18-69, Cl. 324-1.
Hotten, Bruce W., to Chevron Research Company. Lubricant additive composed of a mixture of amine salts of monoamides and mono-amides of alkenyl succinic acids. 3,427,245, 2-11-69, Cl. 252-34.7
Hottendorf, William J., to Fibreboard Corporation. Method and apparatus for packaging containers. 3,482,372, 12-9-69, Cl. 53-32.
Hottenrott, Hans G.: *See*—
Bertelsen, Bruce I.; Hottenrott, Hans G.; and Kump, Herbert J.,3,435,428.
Hotter, Joe M., to American Greetings Corporation. Processes for making debossed decorative metal foil. 3,480,500, 11-25-69, Cl. 156-220.
Hottinger Baldwin Mesztechnik G.m.b.H.: *See*—
Felgner, Karl, 3,434,453.
Hottman, Clarence E.; and Van Meurs, Pieter, to Shell Oil Company. Sulfur steam drive. 3,432,205, 3-11-69, Cl. 299-4.
Hotwork Limited: *See*—
Ward, Trevor, 3,420,614.
Ward, Trevor, 3,434,704.
Ward, Trevor, 3,468,616.
Hotz, David F., to Hughes Aircraft Company. Tunable, frequency stabilized laser. 3,445,787, 5-20-69, Cl. 331-94.5
Hotz, Leo F.; and Wilcox, Orland W., to Sierra Engineering Co. Oxygen mask and valve structure. 3,467,093, 9-16-69, Cl. 128-146.5
Hotze, Hermann: *See*—
Zimmerman, Rolf; and Hotze, Hermann,3,471,430.
Houchman, Boleslaw. Control system for a baking oven. 3,462,078, 8-19-69, Cl. 236-15.
Houck, Frederick D., to Black and Decker Manufacturing Company, The. Measuring device for impact tool. 3,464,503, 9-2-69, Cl. 173-20.
Houck, James R.; Bohm, Henry V.; and Maxfield, Bruce W. Ultrasonic transducer. 3,460,063, 8-5-69, Cl. 340-15.
Houck, William E.; Maerz, Michael O.; Oliver, Burton L.; and Silsbee, David L., to International Business Machines Corporation. Method and apparatus for testing magnetostrictive delay lines by checking for signal coincidence between signal pulses and reference pulses in different phase positions of the reference pulses. 3,473,114, 10-14-69, Cl. 324-68.
Houcke, George P., to Bell Telephone Laboratories, Incorporated. Synchronizer for modifying the advance of timing wave countdown circuits. 3,440,547, 4-22-69, Cl. 328-63.
Houcke, George P., to Bell Telephone Laboratories, Incorporated. Code character keyboard sender. 3,457,368, 7-22-69, Cl. 178-17.
Houcke, George P.; and Prats, Louis, to Bell Telephone Laboratories, Incorporated. Check circuit for comparing the input and output of data repeaters. 3,436,479, 4-1-69, Cl. 178-69.
Houcke, George P.; and Smith, Todd A., to Bell Telephone Laboratories, Incorporated. Solid state switching circuit. 3,466,467, 9-9-69, Cl. 307-252.
Houda Giken Kogyo Kabushiki Kaisha: *See*—
Honda, Soichiro; and Uchida, Shiro, 3,443,341.
Houda, James C., Jr., to Western Electric Company, Incorporated. Percussion welding apparatus. 3,482,074, 12-2-69, Cl. 219-95.
Houdaille Industries, Inc.: *See*—
Burg, Fred G.; and Lenders, Socrates, 3,444,446.
Cady, Percy L., Jr.; and Herzog, John H., 3,456,542.
Callahan, James J., 3,459,217.
Daniels, Dennis, 3,456,536.
Davis, George H., 3,447,226.
Desmond, Charles F., 3,448,830.
Gies, Paul E.; Sperl, Gottlieb; and Braaten, Ralph A., 3,444,787.
Gies, Paul E.; and Sperl, Gottlieb, 3,455,563.
Hammond, Earl J., 3,451,686.
Herzog, John H., 3,446,105.
Herzog, John H.; and Hill, Ronald C., 3,461,763.
Kamman, Gordon W., 3,439,913.
Koch, Roland G., 3,456,957.
Nelson, Paul C.; and Rutz, Leon E., 3,431,758.
Rumsey, Rollin Douglas; and King, Robert E., 3,424,406.
Rumsey, Rollin Douglas, 3,426,655.
Rumsey, Rollin Douglas, 3,444,790.
Rumsey, Rollin Douglas, 3,451,315.
Rumsey, Rollin Douglas, 3,462,136.
Schultz, John C., 3,468,390.
Smith, Joseph S., 3,455,317.

Smith, Joseph S., 3,483,882.
Smith, Louis P., 3,457,952.
Stanaway, Robert E., 3,422,926.
Struck, Charles R., 3,430,652.
Struck, Charles R.; and Anderson, Donald R., 3,459,060.

Houdin, Henri: *See*—
Esquillan, Nicolas; and Houdin, Henri,3,466,878.

Houg, George W.: *See*—
Kindron, Robert R.; and Houg, George W.,3,462,344.

Hougen, Everett D. Rotary cutting tool. 3,456,532, 7-22-69, Cl. 77-69.

Houggy, Dennis E.: *See*—
Meyer, Victor E.; Tacey, Clarence J.; and Houggy, Dennis E.,3,422,038.

Hough, Allan W.: *See*—
Di Veto, Hilliard R.; and Hough, Allan W.,3,424,392.

Hough, Dean R., 45% to Kendall, George W., and 10% to Ruano, William J. Apparatus and method for measuring road contact of vehicle tires. 3,478,582, 11-18-69, Cl. 73-146.2

Hough, Lewis M., Jr.: *See*—
Humbert, Kingsley E., Jr.; Hough, Lewis M., Jr.; and Francois, Paul L.,3,467,256.

Hough Manufacturing Corporation: *See*—
Holloway, Don C., 3,450,185.

Hough, Ralph L., to United States of America, Air Force. Metal surfaced with boron and coating of silicon, silicon carbide or titanium nitride. 3,437,511, 4-8-69, Cl. 117-69.

Hough, Ralph L., to United States of America, Air Force. Wire coated with boron nitride and boron. 3,451,840, 6-24-69, Cl. 117-69.

Hough, Ralph L.; and Schwartz, Robert T., to United States of America, Air Force. Method of making metal or metalloid carbide yarn by decomposing the respective chloride in the presence of carbon yarn. 3,433,725, 3-18-69, Cl. 204-164.

Hough, Ralph, to United States of America, Air Force. Fiber-containing pyrolytic composite material. 3,462,340, 8-19-69, Cl. 161-59.

Hough, Wilfred H., to General Electric Company. Electric incandescent lamp with shock and vibration resistant filament support structure. 3,441,770, 4-29-69, Cl. 313-113.

Hough, William D., to Ball Brothers Company, Incorporated. Method of blow molding a container having an offset spout. 3,449,480, 6-10-69, Cl. 264-98.

Hough, William D.: *See*—
Fogelberg, Clement V.; and Hough, William D.,3,465,073.

Hough, William V.: *See*—
Edwards, Lawrence J.; and Hough, William V.,3,460,905.

Hough, William V.; and Cooper, William J., to Mine Safety Appliances Company. Bis-(hydrazine)decaborane(12) compounds. 3,455,661, 7-15-69, Cl. 23-358.

Hough, William V.; and Hefferan, Gerald T., to Mine Safety Appliances Company. Hydrazine derivatives of nonaborane and methods of making the same. 3,455,660, 7-15-69, Cl. 23-358.

Houghton, E. F., & Co.: *See*—
Lewis, Marvin; and Welsh, Paul J., 3,475,232.

Houghton, Russell M.; and McElroy, Wilbur R., to CONAP Inc. Silk screenable protective conformal coatings for printed circuits. 3,455,855, 7-15-69, Cl. 260-18.

Houghton, Warren W.; and Royce, Robert C., to Raytheon Company. Thermal null shift compensator. 3,483,761, 12-16-69, Cl. 74-5.6

Hougland, John W.; and Wisniewski, John C., to Standard Oil Company, The (Ohio). Process for recovery and purification of acrylate and methacrylate esters by extractive distillation with water. 3,420,751, 1-7-69, Cl. 203-82.

Houilleres du Bassin du Nord & du Pas-de-Calais,: *See*—
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel, 3,471,257.
Delassus, Marcel; Devaux, Richard; and Hofman, Theophile, 3,469,945.
Roth, Etienne; and Lefrancois, Bernard, 3,479,140.
Sack, Henri, 3,445,358.
Sack, Henri, 3,483,106.

Houilleres du Bassin du Nord et du Pas-de-Calais: *See*—
Canivez, Etienne Jean Baptiste Edouard, 3,437,563.

Houk, Richard D., to North American Rockwell Corporation, mesne. Control for providing long travel to the core of a push-pull cable. 3,468,185, 9-23-69, Cl. 74-501.

Houk, Richard D., to North American Rockwell Corporation, mesne. Steering control. 3,470,762, 10-7-69, Cl. 74-502.

Houk, Richard D., to North American Rockwell Corporation, mesne. Transmission and auxiliary throttle control having a safety interlock. 3,470,771, 10-7-69, Cl. 74-876.

Houldcroft, Peter Thomas: *See*—
Roberts, Thomas Marmaduke; and Houldcroft, Peter Thomas,3,460,235.

Houle, Clifford R.: *See*—
Wekell, John C.; Houle, Clifford R.; and Malins, Donald C.,3,420,869.

Houle, James F.; and Van Norman, Gilden R., to Eastman Kodak Company. Color proofing system. 3,486,450, 12-30-69, Cl. 101-463.

Houle, Roland O.; and Richter, Hans H., to Leesona Corporation. Yarn handling apparatus. 3,424,359, 1-28-69, Cl. 226-97.

Houle, Tim H.; and Kopydlowski, Donald J., to Smith, A. O., Corporation. Code controlled apparatus. 3,484,020, 12-16-69, Cl. 222-2.

Houle, Timothy H., to Smith, A. O., Corporation. Coded control apparatus and method. 3,420,987, 1-7-69, Cl. 235-61.7

Houlgate, Henry J.: *See*—
Davies, Henry; Houlgate, Henry J.; Larkby, Geoffrey W. H.; and Peat, Derek,3,458,156.

Houliham, William J., to Sandoz Inc.Octahydroimidazo[1,2-a]pyridin-5-ones. 3,454,585, 7-8-69, Cl. 260-294.7

Houlihan, William J.: *See*—
Aeberli, Paul; and Houlihan, William J.,3,428,644.
Frey, Albert J.; Houlihan, William J.; and Manning, Robert E.,3,457,268.

Houlihan, William J., to Sandoz, Inc.1-(3- hydroxypropyl,-3 methyl-5-phenyl- hexahydropyridazine. 3,420,831, 1-7-69, Cl. 260-250.

Houlihan, William J., to Sandoz, Inc.1,5-Diazabicyclo[4.3.0]nonanes. 3,420,832, 1-7-69, Cl. 260-250.

Houlihan, William J., to Sandoz Inc. 2-(o-Aminoaryl) isoindoles. 3,428,650, 2-18-69, Cl. 260-326.1

Houlihan, William J., to Sandoz, Inc. Substituted quinazolines. 3,441,566, 4-29-69, Cl. 260-251.

Houlihan, William J., to Sandoz Inc.11β-Phenyl-1,2,3,4,5,11β-hexahydro-7H- [1,3] diazepino [2,1-α] isoindol-7-one. 3,441,572, 4-29-69, Cl. 260-26.5

Houlihan, William J., to Sandoz Inc. Isoindoles. 3,444,181, 5-13-69, Cl. 260-309.6

Houlihan, William J., to Sandoz Inc.2-(τ-Hydroxyalkyl)-3-hydroxy-3-phenylisoindolones. 3,454,592, 7-8-69, Cl. 260-325.

Houlihan, William J., to Sandoz Inc. Alpha piperidyl or pyridyl-alpha tertiary aminomethyl benzyl alcohols. 3,458,510, 7-29-69, Cl. 260-247.5

Houlihan, William J., to Sandoz Inc.10b-Phenyl-1,2,3,4-tetrahydropyrimido [2,1-α] isoindol-6-(10b H)-ones. 3,470,180, 9-30-69, Cl. 260-251.

Houlihan, William J.; and Manning, Robert E., to Sandoz Inc.Azecino- and azonino [5,4-β] indoles. 3,478,051, 11-11-69, Cl. 260-326.12

Houlihan, William J.; Manning, Robert E.; and Theuer, William S., to Sandoz, Inc.Pyridazino [3,4-β] indoles. 3,435,034, 3-25-69, Cl. 260-250.

Hounsome, Graham John, to Epsylon Research and Development Company Limited. Electronic switch. 3,466,462, 9-9-69, Cl. 307-240.

Houpis, Constantinos E.; and Ivec, Martin, to Motorola, Inc. Oscillator with short circuit load protection. 3,461,399, 8-12-69, Cl. 331-62.

Houpt, Grover K.; and Thomson, Edward T., to Automatic Timing & Controls, Inc. Gauging transducer. 3,434,086, 3-18-69, Cl. 336-30.

House, Kenneth R.: *See*—
Smith, Randolph J.; and House, Kenneth R.,3,460,124.

House, Richard L.: *See*—
Shohet, Herbert N.; Amelio, Armand F.; House, Richard L.; and Kowalonek, John M.,3,449,891.

House, Ronald A. Bottle orienting mechanism. 3,447,662, 6-3-69, Cl. 198-33.

House, Walter J., Jr. Rotatable platform having rider supports enclosed in an optical chamber for simulating a space ride. 3,468,533, 9-23-69, Cl. 272-18.

Houseman, Henry J.; and Esser, Ernst S., to Eaton Yale & Towne, Inc. Industrial lift truck. 3,484,851, 12-16-69, Cl. 214-731.

Houser, Robert L., to General Motors Corporation. Flat casing filter device. 3,480,149, 11-25-69, Cl. 210-445.

Houser, Robert W., to General Aniline & Film Corporation. Photomultiplier system whereby dynode voltage supply is varied in accordance with modulation of incident light, holding output current constant and using measure of dynode voltage as measure of modulation of light. 3,476,940, 11-4-69, Cl. 250-207.

Houser, Roy W.: *See*—
Beck, Roland D.; and Houser, Roy W.,3,448,661.

Houser, Roy W., to Robertshaw Controls Company. Washing machine system. 3,447,686, 6-3-69, Cl. 210-144.

Housman, Robert W., to Radio Manufacturing Co., Inc. Recording track indicating wheel for magnetic tape cartridge player. 3,477,725, 11-11-69, Cl. 274-4.

Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert, to La Societe Chimique de la Grande Paroisse, Azote et Produits Chimiques. Method for reforming light petrol fractions under pressure. 3,420,643, 1-7-69, Cl. 48-214.

Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert, to La Societe Chimique de la Grande Paroisse. Ni on silica-magnesia-zirconia catalytic compositions used in reforming with steam. 3,457,192, 7-22-69, Cl. 252-457.

Houston Chemical Corporation: *See—*
Gray, Robert D.; and Mayer, Simon E., 3,442,923.
Houston Contracting Company: *See—*
Berard, Dailey J., 3,462,961.
Houston, David R., to Ford Motor Company. Steering column mounted gearshift lever mechanism. 3,453,901, 7-8-69, Cl. 74-484.
Houston, David R.; Howes, Benjamin T.; Warrick, James E.; and Alexandrowicz, Alvin W., to Ford Motor Company. Manually operable gearshift lever assembly for an automotive vehicle. 3,477,306, 11-11-69, Cl. 74-485.
Houston Engineers, Inc.: *See—*
Webb, Derrel D., 3,431,990.
Webb, Derrel D., 3,434,543.
Houston Fearless Corporation: *See—*
Ryman, Ivan; and Schmidt, Gunter, 3,426,439.
Houston, Harry H.; Keitel, Gerald A.; and Williamson, William R., to Borg-Warner Corporation. Materials having high corrosive resistance to attack by fluorine at cryogenic temperatures and method of preparing them. 3,429,720, 2-25-69, Cl. 106-39.
Houston, James D. Handgrip attachment for a surcingle. 3,438,177, 4-15-69, Cl. 54-23.
Houston, Robert J.: *See—*
White, Robert J.; and Houston, Robert J.,3,435,085.
Houston, Robert K.: *See—*
Roberts, Thomas E., Jr.; and Houston, Robert K.,3,446,256.
Houston Sports Association, Inc.: *See—*
McDonnell, Roger K., 3,481,556.
Houston, William. Spectacles for use with monocular and binocular instruments. 3,449,043, 6-10-69, Cl. 351-158.
Housworth, Gordon C., to FMC Corporation. Butterfly valve seat. 3,420,498, 1-7-69, Cl. 251-151.
Hout, Norman C. Foam devices for fog nozzles. 3,446,285, 5-27-69, Cl. 169-15.
Houtman, Jack A., to General Electric Company. Multiphase alternating current dynamoelectric machine stator winding and method of disposing the winding in slots of the stator. 3,439,205, 4-15-69, Cl. 310-180.
Houtman, Johannes Paulus Willem, to North American Philips Company, Inc. Method and an apparatus for the radio gas chromatographic analysis of a mixture of different components. 3,433,053, 3-18-69, Cl. 73-23.1
Houtman, Ronald L., to Upjohn Company, The. Silyl substituted chloramphenicol. 3,442,926, 5-6-69, Cl. 260-448.8
Houtman, Ronald L.; Morozowich, Walter; and Sinkula, Anthony A., to Upjohn Company, The. Process for selectively preparing lincomycin 7-acylates and 7-carbonates. 3,479,334, 11-18-69, Cl. 260-210.
Houtz, Harold H.; and Carl, Allen E., to Weyerhaeuser Company. Method of operating an electrolytic chlorine production cell. 3,432,411, 3-11-69, Cl. 204-128.
Houtz, Kenneth E.: *See—*
Kampert, Keith W.; and Houtz, Kenneth E.,3,434.766.
Houvener, Irving S.: *See—*
Martin, Allan D.; and Houvener, Irving S.,3,478,139.
Hovekamp, John C., to Hoe, R., & Co., Inc., mesne. Adjustable vertical feeder means for stacked articles. 3,426,941, 2-11-69, Cl. 221-222.
Hovekamp, John C., to Talcott, James, Inc. Feeder means with heater. 3,481,590, 12-2-69, Cl. 263-6.
Hoven, Alfred C., to American Seating Company. Foldable bleacher seating for sports areas. 3,478,473, 11-18-69, Cl. 52-9.
Hoven, Eldon Lee: *See—*
Peek, William Henderson; and Hoven, Eldon Lee,3,482,163.
Hovenga, La Vern B.; Hardt, Ivan E.; Kidman, Ronald D.; and Gruen, Harold E., to Bendix Corporation, The. Compensated crystal oscillators. 3,428,916, 2-18-69, Cl. 331-116.
Hover, Paul B., to Tecumseh Products Company. Compressor lubricating system. 3,451,615, 6-24-69, Cl. 230-206.
Hover, Paul B.: *See—*
Hannibal, Billy B.; and Hover, Paul B.,3,445,059.
Hover, Per E., to A. S. Kvaerner Brug. Hinge joint assemblies between two panel elements. 3,483,588, 12-16-69, Cl. 16-163.
Hover, Per E.; and Qvist, Svein-Ivar, to A.S. Kvaerner Brug. Hatch cover arrangement. 3,448,785, 6-10-69, Cl. 160-188.
Hovercraft Development Limited: *See—*
Bing, Alan John, 3,477,387.
Bliss, Denys Stanley, 3,420,330.
Clarke, Peter John, 3,444,952.
Cockerell, Christopher Sydney, 3,424,266.
Cockerell, Christopher Sydney, 3,442,348.
Easton, Geoffrey John, 3,460,485.
Hopkins, Leslie Arthur, 3,444,951.
Hopkins, Leslie Arthur, 3,478,864.
Moore, Robert, 3,443,659.
Moore, Robert Granville, 3,420,329.
Nicholas, David William, 3,430,725.
Page, Reginald Bannerman; and Loriston-Clarke, Anthony Grahame, 3,465,844.
Wheatley, James Herbert William, 3,467,214.
Hoverman, William, Jr., to Goodyear Tire & Rubber Company, The. Sealing strip. 3,474,586, 10-28-69, Cl. 52-400.
Hovermann, Werner: *See—*
Jentzsch, Dietrich; and Hovermann, Werner,3,486,304.
Hoverter, Bryce E., Jr.: *See—*
Saganowich, Bernard F.; Gibson, Leslie W., Jr.; and Hoverter, Bryce E., Jr.,3,470,835.
Spinrad, Malcom; Haas, Kenneth C.; and Hoverter, Bryce E.,3,477,001.
Hovestadt, Adrian P.: *See—*
Merrick, John A.; and Hovestadt, Adrian P.,3,475,778.
Hovestreydt, Gerrit; Logemann, Johan D.; and Delcour, Kees, to Stamicarbon N.V. Light naphtha conversion process. 3,455,813, 7-15-69, Cl. 208-65.
Hovey, Almon G.; and Andrews, William R., to Olin Mathieson Chemical Corporation. Polyhydroxy polyethers stabilized with 1,1,3,3- tetramethoxy propane and polyurethane foams prepared therefrom. 3,457,178, 7-22-69, Cl. 252-182.
Hovey, Daniel I. Chemical addition of gas to liquid solvent apparatus. 3,480,403, 11-25-69, Cl. 23-282.
Hovey, Daniel T. Chemical addition of gas to liquid solvent apparatus. 3,476,520, 11-4-69, Cl. 23-282.
Hovey, Richard J., to American Optical Corporation, mesne. Photochromic materials and devices containing a solution of complex metal cyanide ions and organic dye indicators. 3,436,144, 4-1-69, Cl. 350-160.
Hovey, Richard J.; and Hoffman, Donald O., to American Optical Company, mesne. Fluorescent terbium chelates. 3,440,173, 4-22-69, Cl. 252-301.2
Hovious, Thomas C., to General Electric Company. Fuel battery-rechargeable accumulator combination. 3,423,599, 1-21-69, Cl. 307-66.
Howald, Arthur M., to Soo Valley Company. Production of nylon fiber of improved heat resistance. 3,486,839, 12-30-69, Cl. 8-115.5
Howald, Arthur M.: *See—*
Richardson, Hal R.; and Howald, Arthur M.,3,486,266.
Howald, Werner E., to General Electric Company. Fluid-cooled airfoil. 3,420,502, 1-7-69, Cl. 253-39.1
Howald, Werner E.; and Stabrylla, Robert G., to General Electric Company. Combustor liners. 3,420,058, 1-7-69, Cl. 60-39.66
Howaldt, Jurgen: *See—*
Hemmerling, Manfred; and Howaldt, Jurgen,3,427,398.
Howaldtswerke-Deutsche Werft Aktiengesellschaft: *See—*
Kollenberger, Walter, 3,434,727.
Howard, Arthur G.; and Leffler, Wiliam T. Clinical temperature indicating device. 3,448,619, 6-10-69, Cl. 73-363.7
Howard, Augustus A. Plastic baseboards. 3,422,584, 1-21-69, Cl. 52-98.
Howard , Ben O. Omnidirectional ventilator. 3,469,518, 9-30-69, Cl. 98-42.
Howard, Ben O. Inspirator ventilator. 3,477,358, 11-11-69, Cl. 98-64.
Howard, Bernard Victor: *See—*
Conner, Charles Irvine; Howard, Bernard Victor; Walker, Donald Ferguson; and Wood, Godfrey Allen,3,424,059.
Howard, Bernard; and Hirsch, Ralph M., to Mite Corporation. Keyboard with code output. 3,439,118, 4-15-69, Cl. 178-17.
Howard, Carlton J.; and Port, Eugene B., to Allied Chemical Corporation. Method for preparing superdense sodium carbonate from Wyoming trona and the product thereof. 3,425,795, 2-4-69, Cl. 23-63.
Howard, Charles F.; and Apieler, Raymond J., to National Cash Register Company, The. Multiple paper-feed mechanism and stacker device in high-speed printers. 3,440,955, 4-29-69, Cl. 101-93.
Howard, Clarence E., to Fenix & Scisson, Inc. Earth formation underreamer. 3,443,648, 5-13-69, Cl. 175-103.
Howard, Darnley M.; and Mathis, Irving, to United States of America, Navy, mesne. Method of making radome with an integral antenna. 3,451,127, 6-24-69, Cl. 29-600.
Howard, David Francis, to AMP Incorporated. Lead making machine. 3,479,717, 11-25-69, Cl. 29-203.
Howard, David Robert, to Davy and United Engineering Company Limited. Distribution for distributing cooling liquid. 3,420,447, 1-7-69, Cl. 239-550.
Howard, David Robert, to Davy and United Engineering Company Limited. Rolling mills. 3,460,365, 8-12-69, Cl. 72-21.
Howard, Dean D., to United States of America, Navy. Sidelobe cancelling system for array type target detectors. 3,435,453, 3-25-69, Cl. 343-100.
Howard, Dean D., to United States of America, Navy. Signal processor for diversity frequency radar. 3,487,406, 12-30-69, Cl. 343-7.3
Howard Displays, Inc.: *See—*
Howard, Fred, 3,471,209.
Howard, Donald Kearey: *See—*
Randall, Donald Richard; and Howard, Donald Kearey,3,452,038.
Howard, Durrell U. Integral fuel tank. 3,420,477, 1-7-69, Cl. 244-135.
Howard, Dwight T.: *See—*
Mimken, Frederick J.; and Howard, Dwight T.,3,437,835.

Howard, Edward George, Jr., to Du Pont de Nemours, E. I., and Company. Compositions of polyfluoroketone/epoxide copolymers and an organic thermal stabilizing additive. 3,485,792, 12-23-69, Cl. 260-45.7

Howard, Frank C., to Signode Corporation. Nail cartridge and magazine for impact tools. 3,468,590, 9-23-69, Cl. 312-73.

Howard, Frank L.: *See—*
Beatty, Earl C.; and Howard, Frank L.,3,475,167.

Howard, Fred, to Howard Displays, Inc. Display cabinet. 3,471,209, 10-7-69, Cl. 312-122.

Howard, Frederick D.: *See—*
Yamaguchi, Masatoshi; Howard, Frederick D.; and Pratt, Harlan K.,3,459,032.

Howard, Goerge C., to Pan American Petroleum Corporation. Production and storage system for offshore oil wells. 3,472,032, 10-14-69, Cl. 61-46.

Howard, Graham W. Belt tension determining instrument. 3,482,442, 12-9-69, Cl. 73-144.

Howard, Herbert H., to Filters, Inc. Filter separator assembly. 3,481,473, 12-2-69, Cl. 210-300.

Howard, James A.; and Lucas, Raymond D., to Sylvania Electric Products Inc. Pressure responsive battery charging apparatus. 3,427,523, 2-11-69, Cl. 320-46.

Howard, JoAnn; and Demaree, John E., to Briles, Franklin. Faucet fountain. 3,462,080, 8-19-69, Cl. 239-27.

Howard, John Christie, to Associated Electrical Industries Limited. Refractory crucibles. 3,440,323, 4-22-69, Cl. 13-30.

Howard, John Christie; Howard, John Farquhar; Allen, Alec George; and Neenan, Patrick Anthony, to Associated Electrical Industries Limited. Method of casting metals by induction heating. 3,435,878, 4-1-69, Cl. 164-51.

Howard, John Farquhar: *See—*
Howard, John Christie; Howard, John Farquhar; Allen, Alec George; and Neenan, Patrick Anthony,3,435,878.

Howard, John F., to Canadian General Electric Company Limited. Thermal protective dece having rapid response to sudden high overloads and delayed response to moderate overloads. 3,423,712, 1-21-69, Cl. 337-77.

Howard, John F., to Canadian General Electric Company, Limited. Overcurrent protective device for electrical apparatus. 3,454,917, 7-8-69, Cl. 337-39.

Howard, John G., to Pyle-National Company, The. Locking device in a bayonet electrical connector. 3,455,580, 7-15-69, Cl. 285-87.

Howard, Joseph M.: *See—*
Lachance, Armand A.; and Howard, Joseph M.,3,430,732.
Lachance, Armand A.; and Howard, Joseph M.,3,454,139.

Howard, Lowell F.; and Christiansen, Paul J., to Mallory, P. R., & Co., Inc. Solid tantalum capacitor and method of making same. 3,475,658, 10-28-69, Cl. 317-230.

Howard, Lowell F.; and Sturgill, Charles G., to Mallory, P. R., & Co., Inc. Hermetically sealed electrolytic capacitor. 3,440,495, 4-22-69, Cl. 317-230.

Howard, Murl B.: *See—*
Krejci, Joseph C.; and Howard, Murl B.,3,460,911.

Howard, Reginald C., to Kolock Products Company. Prestressed shaft engaging unit. 3,473,202, 10-21-69, Cl. 24-257.

Howard, Robert C.; and Baker, Dale C., to Conrac Corporation. Opacimeter for comparing light from different areas of sample sheet. 3,476,482, 11-4-69, Cl. 356-199.

Howard, Robert Charles, to Giannini Controls Corporation. Method and apparatus for measuring the opacity of sheet material. 3,455,637, 7-15-69, Cl. 356-204.

Howard, Robert W.: *See—*
Jackson, Don M., Jr.; and Howard, Robert W.,3,473,978.

Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T., to Union Carbide Corporation. Fuel elements. 3,438,858, 4-15-69, Cl. 176-69.

Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T., to Union Carbide Corporation. Method of manufacturing fuel elements. 3,439,073, 4-15-69, Cl. 264-0.5

Howard, Sheldon. Cleaner cartridge. 3,439,922, 4-22-69, Cl. 274-47.

Howard, Shirly L.: *See—*
Fling, John J.; Howard, Shirly L.; and Weil, Frederick M.,3,438,035.

Howard, Wayne A., to Mobil Oil Corporation. Blending monitor. 3,451,402, 6-24-69, Cl. 137-3.

Howard, Wayne R., to Clark Equipment Company. Reversible hydrodynamic torque converter. 3,440,902, 4-29-69, Cl. 74-718.

Howard, Webster E., Jr.: *See—*
Esaki, Leo; Howard, Webster E., Jr.; and Stiles, Phillip J.,3,445,733.
Fang, Frank F.; and Howard, Webster E., Jr.,3,458,798.

Howard, William D.: *See—*
Horeth, John M.; Howard, William D.; and Langenheim, Richard H.,3,462,761.

Howard, William E.: *See—*
Carp, Ralph W.; Howard, William E.; Slavin, Michael; and Ang, Leoncio T.,3,455,411.
Slavin, Michael; Carp, Ralph Wolf; Howard, William Edward; and Ang, Leoncio T.,3,485,316.

Howard, William E., to Materials Handling Systems, Inc. Article grasping device for fork lift trucks. 3,448,880, 6-10-69, Cl. 214-620.

Howarth, Harold D. Combination camper and boat vehicle. 3,486,786, 12-30-69, Cl. 296-23.

Howarth, John Joseph; and Stanier, Harold Meredith, to Imperial Chemical Industries Limited. Photometric analyzer for comparing absorption of wavelength of maximum absorption with wavelength of minimum absorption. 3,459,951, 8-5-69, Cl. 250-226.

Howarth, Stephen Roland, to National Research Development Corporation. Apparatus for the detection of gases. 3,481,179, 12-2-69, Cl. 73-27.

Howarth, Walter H.; Snow, Gerald A.; and Doughty, Harold A., to United Industrial Syndicate, Inc., d.b.a. Portland Company Division of United Industrial Syndicate, Inc. Egg cartons. 3,458,108, 7-29-69, Cl. 229-2.5

Howarth, Walter: *See—*
Greenwood, Robert; and Howarth, Walter,3,440,690.

Howden, Derek: *See—*
Weinberg, Felix Jiri; Howden, Derek; and Cleaver, Denis,3,434,950.

Howe, Earl E. Pressure fitting for pipes carrying gaseous fluids. 3,485,517, 12-23-69, Cl. 285-341.

Howe, Edwin W., to AMBAC Industries, Incorporated. Caging apparatus and sensor stabilization system employing same. 3,477,297, 11-11-69, Cl. 74-5.1

Howe, Edwin W., to AMBAC Industries, Incorporated. Gyroscopic apparatus and systems. 3,477,298, 11-11-69, Cl. 74-5.34

Howe, Frank D.; and Groves, Allen D., to Ingersoll-Rand Company. Fluid supported piston. 3,463,386, 8-26-69, Cl. 230-188.

Howe, Frank D.; Swift, Joseph P.; and Groves, Allen D., to Ingersoll-Rand Company. Piston supporting means. 3,442,183, 5-6-69, Cl. 92-184.

Howe, Ralph: *See—*
Bond, Peter Anthony; and Howe, Ralph,3,463,808.
Elson, George Wynne; Howe, Ralph; and Jones, Derrick Fleet,3,483,083.

Howe, Ralph, to Imperial Chemical Industries Limited. 3-Aryloxy-1-amino-2-propanols and salts thereof. 3,432,545, 3-11-69, Cl. 260-501.17

Howe, Robert F. Compartmentalized cosmetic tray. 3,446,215, 5-27-69, Cl. 132-83.

Howe, Robert H. L., to Lilly, Eli, and Company. Method for disposal of wastes containing nitrophenols and nitroanilines. 3,458,435, 7-29-69, Cl. 210-15.

Howe, Robert M., to Applied Dynamics, Inc. Digitally settable electronic function generator using two-sided interpolation functions. 3,480,767, 11-25-69, Cl. 235-150.53

Howe-Baker Engineers, Inc.: *See—*
Lewis, William R.; Bird, Wilmer L.; and Mindick, Morris, 3,454,488.
Martin, Ralph E., 3,480,513.
Stoops, James W.; Bitterlich, Gordon M.; Lipkin, Moses R.; and Primas, Alex L., 3,480,416.

Howeler, Warren F.: *See—*
Erlandson, Paul M.; and Howeler, Warren F.,3,440,392.

Howell, Bryan Gordon, to Metal Box Company Limited, The. Containers. 3,476,240, 11-4-69, Cl. 206-0.82

Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones, to American Cyanamid Company. Process for 11-aminodibenz[b,f][1,4]oxazepines and analogous thiazepines. 3,444,169, 5-13-69, Cl. 260-268.

Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones, to American Cyanamid Company. 11-[Piperazinyl]dibenz[b,f] [1,4]oxazepines and analogous thiazepines. 3,458,516, 7-29-69, Cl. 260-268.

Howell, David S., to Woodle Corporation, mesne. Lowerable elevated poster holder. 3,449,847, 6-17-69, Cl. 40-125.

Howell, David S., to Woodle Corporation, mesne. Display device. 3,449,848, 6-17-69, Cl. 40-125.

Howell, Edward K., to General Electric Company. Alternating current switch. 3,446,991, 5-27-69, Cl. 307-252.

Howell, Edward K., to General Electric Company. Card and tape reader. 3,476,918, 11-4-69, Cl. 235-61.11

Howell, Emory L., to Dayco Corporation. Picker stick checking mechanism. 3,446,253, 5-27-69, Cl. 139-161.

Howell, George E.: *See—*
Hedgewick, Peter; and Howell, George E.,3,478,911.
Hedgewick, Peter; and Howell, George E.,3,485,403.

Howell Industries, Inc.: *See—*
Wonell, Harry; and LaFleche, Oakley A., 3,469,812.

Howell Instruments, Inc.: *See—*
Howell, John S.; and Hartung, Robert L., 3,475,750.

Howell, John D. Helical gearing. 3,481,215, 12-2-69, Cl. 74-424.5

Howell, John R., to Owens-Illinois, Inc. Universal blank for forming telescopic carton members. 3,469,761, 9-30-69, Cl. 229-32.

Howell, John S.; and Hartung, Robert L., to Howell Instruments, Inc. Temperature monitoring and alarm apparatus. 3,475,750, 10-28-69, Cl. 340-413.

Howell, Lynn G.; Brannon, Hezzie R., Jr.; and Barry, Adelbert, to Esso Production Research Company. Gravity meter. 3,472,076, 10-14-69, Cl. 73-382.
Howell, Mason C. Land clearing device. 3,445,945, 5-27-69, Cl. 37-116.
Howell, Richard S., to Burroughs Corporation. Electrographic printhead having an image-defining multisegmented control electrode. 3,438,053, 4-8-69, Cl. 346-74.
Howell, Robert B. Zipper foot attachment. 3,473,498, 10-21-69, Cl. 112-240.
Howell, Robert G.: *See—*
Grego, Peter; and Howell, Robert G.,3,429,742.
Howell, Robert V. Camera aligning instrument. 3,477,786, 11-11-69, Cl. 355-18.
Howell, Russell B., to Fairchild Hiller Corporation. Seat reclining mechanism. 3,479,890, 11-25-69, Cl. 74-89.15
Howell, Samuel G.; and Akers, Dale M., to National Distillers and Chemical Corporation. Magnetic recording tape. 3,427,191, 2-11-69, Cl. 117-138.8
Howell, Samuel G.; and Akers, Dale M., to National Distillers and Chemical Corporation. Process for coating substrates with polymers. 3,432,339, 3-11-69, Cl. 117-132.
Howell, Thomas E.: *See—*
Kerfoot, Oliver C.; and Howell, Thomas E.,3,446,867.
Howell, Wallace R., to United States of America, Air Force. Stereonephograph. 3,485,557, 12-23-69, Cl. 353-6.
Howells, Francis Thomas, to Elliotts Liverpool Limited. Apparatus for automatically feeding articles from a store or batch. 3,432,049, 3-11-69, Cl. 214-89.
Howells, George Aneurin, to International Standard Electric Corporation. Pulse transformers comprising stacked ferrite blocks. 3,484,761, 12-16-69, Cl. 340-174.
Howells, George Aneurin; and Hunt, Geoffrey Allen, to International Standard Electric Corporation. Data processing equipment. 3,421,148, 1-7-69, Cl. 340-172.5
Howerton, Hugh K., to American Instrument Co., Inc. Spectrophotofluorometer having correction means providing substantially equal energy effects in response at different excitation wave lengths. 3,433,952, 3-18-69, Cl. 250-71.
Howes, Benjamin T.: *See—*
Houston, David R.; Howes, Benjamin T.; Warrick, James E.; and Alexandrowicz, Alvin W.,3,477,306.
Howes, Irving C.; Anderson, Little A., Jr.; and Netti, Anthony, to Davis & Furber Machine Company. Automatic roll stop. 3,460,204, 8-12-69, Cl. 19-0.23
Howes, Maurice Albert Henry: *See—*
Baker, Alfred Dickens; and Howes, Maurice Albert Henry,3,450,913.
Howeth, Bobby W.: *See—*
Belasco, Melvin; Howeth, Bobby W.; Martin, David D.; and Wende, Price T.,3,468,659.
Howeth, David Franklin. Collector valve. 3,447,556, 6-3-69, Cl. 137-112.
Howey, Friedrich: *See—*
Bostroem, Hans; and Howey, Friedrich,3,439,318.
Howie Corporation: *See—*
Howie, Kenneth, Jr., 3,428,068.
Howie, Kenneth, Jr., to Howie Corporation. Turbulence amplifier. 3,428,068, 2-18-69, Cl. 137-81.5
Howitt, James B. Transportable and stackable material handling baskets. 3,432,039, 3-11-69, Cl. 211-133.
Howitt, John S., to Corning Glass Works. Composite vehicle closure containing stress raiser and method therefor. 3,473,997, 10-21-69, Cl. 161-164.
Howland, Benjamin T.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,447,774.
Howland, Bradford: *See—*
Berg, Robert S.; and Howland, Bradford,3,448,421.
Howland, Bradford. Optical test equipment and methods for making and using same. 3,486,825, 12-30-69, Cl. 356-126.
Howland, Bradford; and Wiesner, Stephen Jay. Convertible torsion measure. 3,479,744, 11-25-69, Cl. 33-172.
Howland, Donald C., to Cadillac Gage Company. Hydraulic servosystem. 3,446,229, 5-27-69, Cl. 137-85.
Howland, George R., to Bendix Corporation, The. Fluidic velocity sensor. 3,473,389, 10-21-69, Cl. 73-521.
Howland, George R., to Bendix Corporation, The. Control apparatus utilizing pure fluid logic control and nutating stepping motor. 3,486,518, 12-30-69, Cl. 137-81.5
Howles, Daniel J., to TRW Inc. Centerless grinding machine with an automatic feed through the machine. 3,430,392, 3-4-69, Cl. 51-103.
Howlett, Donald L., to Texaco Inc. Voltage regulator employing cascaded operational amplifiers. 3,470,457, 9-30-69, Cl. 323-22.
Howlett, Ernest E.: *See—*
Hubbell, Dean S.; and Howlett, Ernest E.,3,482,951.
Howlett, George H. Tendon anchorage. 3,449,876, 6-17-69, Cl. 52-230.
Howlett, Harry E., to Texaco, Inc. Remote control system for electrical apparatus. 3,424,919, 1-28-69, Cl. 307-140.
Howlett, James W., to Howlett Machine Works. Turnbuckle. 3,454,293, 7-8-69, Cl. 287-60.
Howlett, James W., to Howlett Machine Works. Concrete prestressing apparatus (tank). 3,460,300, 8-12-69, Cl. 52-224.
Howlett Machine Works: *See—*
Howlett, James W., 3,454,293.
Howlett, James W., 3,460,300.
Howlett, Rex R., to Wilkinson Sword Limited. Machines for cutting grass or other vegetable matter. 3,469,380, 9-30-69, Cl. 56-202.
Howman, Eric James; Bradshaw, Cristopher Patrick Cadman; and Turner, Leonard, to British Petroleum Company Limited, The. Catalyst preparation. 3,424,812, 1-28-69, Cl. 260-683.
Howman, Eric James; and Turner, Leonard, to British Petroleum Company Limited, The. Disproportionation of olefins. 3,448,163, 6-3-69, Cl. 260-683.
Howmet Corporation: *See—*
Feagin, Roy C.; Dahowski, Edward L.; and Kosmos, Peter, 3,432,312.
Gribas, George J.; Kinney, George C.; and Cummings, Edwin, Jr., 3,460,547.
Lirones, Nick G., 3,420,644.
Mondiadis, Dimitri G., 3,437,423.
Ramirez, Ernest R., 3,475,161.
Tingquist, Stanley C.; and Trench, William H., 3,429,358.
Tingquist, Stanley C.; Talbot, Albert M.; and Hagedorn, William H., 3,460,604.
Howorth, Douglas: *See—*
Davies, Robin Evan; and Howorth, Douglas,3,457,369.
Howse, Paul T., Jr.: *See—*
McIntosh, Euell K.; and Howse, Paul T., Jr.,3,465,618.
Howson, W. H., Limited: *See—*
Denner, James R., 3,484,165.
Hoy, Austin, and Company, Limited: *See—*
Proctor, Sidney E., 3,428,364.
Proctor, Sidney E., 3,485,533.
Hoy, Gordon, to Hoynor Limited. Load transporting vehicles. 3,424,489, 1-28-69, Cl. 296-1.
Hoy, Gordon, to Hoynor Limited. Load transporting vehicles. 3,449,010, 6-10-69, Cl. 296-1.
Hoy, Gordon, to Hoynor Limited. Semi-trailer vehicles. 3,459,451, 8-5-69, Cl. 298-22.
Hoy, Kenneth A., to Goodrich, B. F., Company, The. Integral tire and hub. 3,425,475, 2-4-69, Cl. 152-9.
Hoy, Kenneth L.; and Payne, Paul C., to Union Carbide Corporation. Polyester-carboxylic acid adducts and water-based paint compositions therefrom. 3,440,192, 4-22-69, Cl. 260-22.
Hoye, Peter Albert Theodore: *See—*
Coates, Harold; and Hoye, Peter Albert Theodore,3,446,826.
Hoyer, Ernst: *See—*
Meininger, Fritz; and Hoyer, Ernst,3,426,008.
Hoyer, Ernst; Meininger, Fritz; and Noll, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Copper-containing pyrazolone monoazo dyestuffs. 3,461,111, 8-12-69, Cl. 260-147.
Hoyer, Georg-Alexander: *See—*
Schulz, Heinz; Arndt, Friedrich; Hoyer, Georg-Alexander; and Rusch, Reinhart,3,454,591.
Hoyer, Karl, to Bosch, Robert, G.m.b.H. Cooling apparatus for automotive vehicles. 3,459,006, 8-5-69, Cl. 62-209.
Hoyer, Karl; and Ortlieb, Alfred, to Bosch, Robert G.m.b.H. Information storing apparatus. 3,446,943, 5-27-69, Cl. 235-61.9
Hoyer, Llewellyn E.: *See—*
Zupez, John A.; and Hoyer, Llewellyn E.,3,423,137.
Hoyer, Nils Peter Lilloe. Translating system for liquid level measurements. 3,440,880, 4-29-69, Cl. 73-321.
Hoyland, Alyson Skipp: *See—*
Pratt, Philip R., 3,460,206.
Hoyle, Tonnie A.: *See—*
Zawadzki, Thomas; Reventas, Algirdas A.; and Lee, Richard M.,3,423,347.
Hoyle, Vinton A., Jr.; and McConnell, Wayne V., to Eastman Kodak Company. Chroman derivatives of 2,5-dimethyl-2,4-hexadiene. 3,476,772, 11-4-69, Cl. 260-345.5
Hoyle, Walter W., to Carrier Corporation. Room air conditioner door construction and mounting means therefor. 3,481,153, 12-2-69, Cl. 62-262.
Hoyler, Robert C., to Bell Telephone Laboratories, Incorporated. Dynamic comb filter. 3,459,894, 8-5-69, Cl. 179-1.
Hoyler, Robert C.; Koscinski, Anthony; and Perkinson, William B., to Bell Telephone Laboratories, Incorporated. Conference system wherein transmitting and receiving terminals are separately connected to a talking bus. 3,428,754, 2-18-69, Cl. 179-18.
Hoyme, Clifford L.: *See—*
Hoyme, Ernest G.; and Hoyme, Clifford L.,3,464,392.
Hoyme, Ernest G.; and Hoyme, Clifford L. Hog chute. 3,464,392, 9-2-69, Cl. 119-103.
Hoyne, Earl K., to Minnesota Mining and Manufacturing Company. Corpuscular beam recorder. 3,460,157, 8-5-69, Cl. 346-110.

Hoynor Limited: *See—*
Hoy, Gordon, 3,424,489.
Hoy, Gordon, 3,449,010.
Hoy, Gordon, 3,459,451.
Hoyrup, Sigurd J.: *See—*
Baker, Thomas R.; Hoyrup, Sigurd J.; and Posen, Boris S.,3,452,855.
Hoyson, Nickolas. Combination round and hexagonal pusher grips. 3,431,013, 3-4-69, Cl. 294-102.
Hoyt, Dolph G., Jr. Golf club iron cover. 3,478,799, 11-18-69, Cl. 150-52.
Hoyt, Howard E.; and Pfluger, Helmuth L., to Borden Company, The. Aqueous alkali metal hydroxide insoluble cellulose ether membrane. 3,442,674, 5-6-69, Cl. 106-197.
Hoyt, Jack W., to United States of America, Navy. Measurements of molecular weights of high polymers. 3,420,096, 1-7-69, Cl. 73-54.
Hoyt, John M.; and Koch, Karl, to National Distillers and Chemical Corporation. Process for polymerizing 2-methylene glutaronitrile. 3,451,977, 6-24-69, Cl. 260-78.4
Hoyt, John M.; and Koch, Karl, to National Distillers and Chemical Corporation. Novel poly[arylene-bis (arylmethylidyne)] polymers and their production. 3,472,806, 10-14-69, Cl. 260-37.
Hoyt, Kenneth L.; and Sampietro, Achille C., to Ford Motor Company. Rear suspension system for a motor vehicle. 3,469,649, 9-30-69, Cl. 180-71.
Hoyt, Pete L.: *See—*
Conrad, Raymond W.; Haisty, Robert W.; and Hoyt, Pete L.,3,421,952.
Hoyte, Alfred F.: *See—*
Senftle, Frank E.; Hoyte, Alfred F.; and Martinez, Prudencio, Jr.,3,463,922.
Hoza, Martin D.: *See—*
Biek, Paul A.; and Hoza, Martin D.,3,453,936.
Hozak, Karel A.: *See—*
Bennett, John M.; and Hozak, Karel A.,3,463,166.
Hozeski, Kenneth W.: *See—*
Barecki, Chester J.; and Hozeski, Kenneth W.,3,482,875.
Hozumi, Keichiro, to Yanagimoto Manufacturing Co., Ltd. Apparatus for elementary analysis. 3,451,779, 6-24-69, Cl. 23-253.
Hraboweckyj, Mykola. Method and apparatus for consuming combustible gases in engine exhaust gases. 3,468,124, 9-23-69, Cl. 60-30.
Hrach, Josef: *See—*
Zorn, Hermann; Hrach, Josef; and Zeschmar, Winfried,3,477,989.
Hranitzky, Wilhelm M.: *See—*
Stutz, Hansruedi S.; Loepfe, Erich; and Hranitzky, Wilhelm M.,3,485,964.
HRB-Singer, Inc.: *See—*
Bates, John K., Jr., 3,483,467.
Cannon, John Berkman, Jr.; and Eliot, Warner Ayres, 3,454,786.
Diamant, Henri B., 3,444,386.
Smith, Don E., 3,471,772.
Hrboticky, Jiri, to Vyzkumny Ustav Zuslechtovaci Bendix Corporation, The. Process of and apparatus for treating sheet materials devices materials. 3,470,571, 10-7-69, Cl. 250-210.
Hrdina, Jan: *See—*
Storek, Jaroslav; Wiedermann, Jiri; Hrdina, Jan; and Volesky, Radovan,3,457,716.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Method of evaluating the concentration gradients in liquids. 3,422,667, 1-21-69, Cl. 73-53.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Drive mechanism for oscillating devices, particularly control rods. 3,431,789, 3-11-69, Cl. 74-54.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Peristaltic pumping device. 3,437,050, 4-8-69, Cl. 103-148.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Device for measuring liquid media. 3,437,051, 4-8-69, Cl. 103-153.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Method of reducing the undesirable decrease of the concentration gradients. 3,458,285, 7-29-69, Cl. 23-230.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Apparatus for feeding and measuring a substantially evenly segmentized fluidal medium. 3,463,179, 8-26-69, Cl. 137-154.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Method and means for exactly sectionalizing a flow of liquid in a capillary tubing. 3,471,262, 10-7-69, Cl. 23-230.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Method and apparatus for separating number of samples displaced in a tubing of small internal diameter. 3,472,627, 10-14-69, Cl. 23-230.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Apparatus and process for maintaining uniform size of gas bubble pistons in capillary through flow reactors. 3,472,628, 10-14-69, Cl. 23-230.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Stroke control for a piston sampler used in chromatography. 3,482,451, 12-9-69, Cl. 73-423.
Hrdina, Jiri, to Ceskoslovenska akademie ved. Device for the treatment of flow of liquid sectionalized by fluidal bubbles. 3,485,295, 12-23-69, Cl. 165-147.
Hren, John J., to Jackson and Church Electronics Company, Inc. Field ion or field emission microscope having a fiber optic face plate. 3,486,020, 12-23-69, Cl. 250-49.5
Hrishikesan, Kizhakke Govind, to Reynolds Metals Company. Removal of fluorine from alumina by steam. 3,442,606, 5-6-69, Cl. 23-142.
Hrishikesan, Kizhakke Govind, to Reynolds Metals Company. Zinc removal. 3,445,186, 5-20-69, Cl. 23-141.
Hrishikesan, Kizhakke Govind; Kane, James Franklin; Teas, Edward Bruce; and Brown, William Haddon, to Reynolds Metals Company. Treatment of Bayer process digester slurry. 3,469,935, 9-30-69, Cl. 23-52.
Hron, Jaroslav; Kliment, Jiri; Kryzanek, Vladimir; Mirtes, Bohumil; and Vytiska, Alois, to Vyzkumny ustav matematickych stroju. Circuit arrangement for indicating the occurrence of an overload condition on a plurality of input points. 3,436,751, 4-1-69, Cl. 340-248.
Hrovath, John W.: *See—*
Dunn, Lloyd G.; and Hrovath, John W.,3,441,169.
Hrovath, Linda M.: *See—*
Dunn, Lloyd G.; and Hrovath, John W.,3,441,169.
Hrubecky, Frederick J.: *See—*
Sokolowski, Robert C.; Lewis, Frank M., Jr.; and Hrubecky, Frederick J.,3,484,330.
Hrubesch, Adolf: *See—*
Suter, Hubert; Nohe, Heinz; Beck, Fritz; and Hrubesch, Adolf,3,471,381.
Hruby, John O., Jr., to Rain Jet Corporation, mesne. Fountain. 3,447,749, 6-3-69, Cl. 239-17.
Hruby, John O., Jr., to Rain Jet Corporation, mesne. Fountain. 3,481,541, 12-2-69, Cl. 239-17.
Hruska, Howard E., to Bendix Corporation, The. Power steering mechanism. 3,465,842, 9-9-69, Cl. 180-79.2
Hrusovsky, Louis, to North American Rockwell Corporation. Method of making wear resistant spring leaf. 3,466,202, 9-9-69, Cl. 148-149.
Hsiao, Mu-Yue; and Sih, Kwang Y., to International Business Machines Corporation. Error correction device for parallel data transmission system. 3,452,328, 6-24-69, Cl. 340-146.1
Hsieh, Henry L., to Phillips Petroleum Company. Metalated acetylenic polymers and their preparation. 3,438,957, 4-15-69, Cl. 260-94.1
Hsieh, Henry L., to Phillips Petroleum Company. Alkene oxide polymerization with a supported cobalt oxide-molybdenum oxide catalyst. 3,441,521, 4-29-69, Cl. 260-2.
Hsieh, Henry L., to Phillips Petroleum Company. Ether additives in the polymerization of alkene oxides. 3,459,688, 8-5-69, Cl. 260-2.
Hsieh, Henry L., to Phillips Petroleum Company. Crystalline polymers of propylene oxide. 3,468,817, 9-23-69, Cl. 260-2.
Hsieh, Henry L., to Phillips Petroleum Company. Organometal-metal beta-diketones as catalysts for alkene oxide polymerization. 3,468,860, 9-23-69, Cl. 260-88.3
Hsieh, Henry L., to Phillips Petroleum Company. Control of branching and coupling in lithium-terminated polymers. 3,468,972, 9-23-69, Cl. 260-836.
Hsieh, Henry L., to Phillips Petroleum Company. Catalyst compositions, polymerization process, and products produced thereby. 3,475,395, 10-28-69, Cl. 260-88.7
Hsieh, Henry L., to Phillips Petroleum Company. Polymerization. 3,480,607, 11-25-69, Cl. 260-94.3
Hsieh, Henry L., to Phillips Petroleum Company. Catalyst system comprising an organoaluminum, an organozinc and water. 3,483,135, 12-9-69, Cl. 252-431.
Hsieh, Henry L., to Phillips Petroleum Company. Increasing polymerization rate of alkene oxides with alkylene carbonates. 3,487,029, 12-30-69, Cl. 260-2.
Hsieh, Henry L.; and Busler, William R., to Phillips Petroleum Company. Organomagnesium-zirconium beta-diketones as catalysts for alkene oxide polymerization. 3,450,683, 6-17-69, Cl. 260-88.3
Hsieh, Henry L.; and Mueller, Francis X., Jr., to Phillips Petroleum Company. Polymerization of epihalohydrins alone or with oxirane compounds. 3,457,197, 7-22-69, Cl. 260-2.
Hsieh, Hsueh Y.: *See—*
Aschenbrenner, Claus M.; Hsieh, Hsueh Y.; and Libby, Richard L.,3,438,050.
Hsieh, Peter K., to RCA Corporation. Priority circuits. 3,460,043, 8-5-69, Cl. 328-92.
Hsu, Charles T.; and Hamer, Geoffrey, to American Standard Inc. Flow divider. 3,480,025, 11-25-69, Cl. 137-2.
Hsu, Howard L.; and Du Fresne, Eugene R., to General Dynamics Corporation. Epoxy system. 3,423,345, 1-21-69, Cl. 260-18.
Hsu, Robert T.: *See—*
Maliszewski, Leonard A.; and Hsu, Robert T.,3,451,586.
Hsu, Yih-Yun; and Dunning, John W., Jr., to United States of America, National Aeronautics and Space Administration. Slug flow magnetohydrodynamic generator. 3,453,462, 7-1-69, Cl. 310-11.
Hsu, Yung Shing, to Omark Industries, Inc. Fastener structures. 3,480,306, 11-25-69, Cl. 287-53.
Hsu, Yung Shing, to Omark Industries, Inc. Chamber erosion preventing powder actuated tools. 3,481,143, 12-2-69, Cl. 60-26.1

Hsu, Yung Shing; and Luciano, John P., Jr., to Omark Industries, Inc. Fastening structure. 3,459,095, 8-5-69, Cl. 85-10.
Hu, Shih-En, to Esso Research and Engineering Company. Phosphosulfurized phosphite esters and hydrocarbon compositions containing the same. 3,459,662, 8-5-69, Cl. 252-46.7
Hu, Shih-En, to Esso Research and Engineering Company. Lubricating oils and fuels containing organic phosphite reaction products. 3,484,375, 12-16-69, Cl. 252-49.9
Hu, Yow-Jiun, to Farrington Business Machines Corporation. Printing mechanism with traveling cylinder. 3,447,458, 6-3-69, Cl. 101-269.
Hu, Yow-Jiun, to Farrington Business Machines Corporation. Variable character printing apparatus. 3,468,244, 9-23-69, Cl. 101-90.
Hu, Yow-Jiun, to Farrington Business Machines Corporation. Identification card mechanism. 3,483,060, 12-9-69, Cl. 156-368.
Hu, Yow-Jiun; and Buc, George L., to Farrington Business Machines Corporation. Optical fingerprint recording device. 3,478,658, 11-18-69, Cl. 95-1.1
Huang, Barney K.; and Splinter, William E. Automatic transplanter. 3,446,164, 5-27-69, Cl. 111-3.
Huang, Ching Yun; and Kizaki, Shoji, to Japan Gas-Chemical Company, Inc. Water soluble oil modified alkyd resin. 3,481,892, 12-2-69, Cl. 260-22.
Huang, Ching Yun; and Maeda, Masayoshi, to Japan Gas-Chemical Company, Inc. Epoxy resin having at least one active methylene ether directly connected to two aromatic nuclei and a process for producing the same. 3,441,519, 4-29-69, Cl. 260-2.
Huang, Sydney S.: *See—*
Chiou, Charles; Smith, James F.; and Huang, Sydney S.,3,485,996.
Huang, Yen T., to Teledyne Industries, Inc. Spectral analysis of events of finite record length. 3,454,876, 7-8-69, Cl. 324-77.
Hubacek, Vaclav: *See—*
Pospisil, Jaroslav; and Hubacek, Vaclav,3,479,882.
Hubbard, Albert L. Fishing rod. 3,421,247, 1-14-69, Cl. 43-18.
Hubbard, Albert W., to Okanagan Copter Sprays, Ltd. Airborne spraying device. 3,428,276, 2-18-69, Cl. 244-136.
Hubbard, Arthur F., to American Air Filter Company, Inc. Extensible-retractable handles. 3,425,756, 2-4-69, Cl. 306-28.
Hubbard, Arthur L., to Deere & Company. Cotton harvester. 3,422,608, 1-21-69, Cl. 56-41.
Hubbard, Arthur L., to Deere & Company. Cotton harvester. 3,422,751, 1-21-69, Cl. 100-233.
Hubbard, Arthur L., to Deere & Company. Method and apparatus for positioning doffing structure in a cotton picker. 3,427,791, 2-18-69, Cl. 56-41.
Hubbard, Arthur Lowell, to Deere & Company. Cotton harvester. 3,469,379, 9-30-69, Cl. 56-41.
Hubbard, Arthur Lowell, to Deere & Company. Blower means for cotton harvester. 3,487,450, 12-30-69, Cl. 302-17.
Hubbard, Bobby Gene, to Spielman, Warren L., mesne. Electronic annunciator means. 3,457,559, 7-22-69, Cl. 340-213.1
Hubbard, Bruce W., deceased0 (by Hubbard, Ruth Florin; executrix), to Grace, W. R., & Co. Spiked shoe sole. 3,461,576, 8-19-69, Cl. 36-67.
Hubbard, Bruce W., Jr.: *See—*
Hedman, Edward A.; and Hubbard, Bruce W., Jr.,3,422,080.
Hubbard, Charles J., to Cutler-Hammer, Inc. Temperature-compensated gauging laser interferometer system. 3,477,789, 11-11-69, Cl. 356-106.
Hubbard, David C.; and Harper, James K., to Chance, A. B., Company. Crossarm gin. 3,472,395, 10-14-69, Cl. 212-8.
Hubbard, David C.; and Zumsteg, David B., to Chance, A. B., Company. Tap clamp. 3,431,538, 3-4-69, Cl. 339-95.
Hubbard, Glenn R.: *See—*
McAlvay, John C.; and Hubbard, Glenn R.,3,465,519.
Hubbard, Harold C., to Motor Wheel Corporation. Welding control. 3,445,622, 5-20-69, Cl. 219-124.
Hubbard, Harold C., to Motor Wheel Corporation. Process of making molded magnetic material. 3,451,934, 6-24-69, Cl. 252-62.54
Hubbard, Harold C., to Motor Wheel Corporation. Electromagnet. 3,476,223, 11-4-69, Cl. 188-164.
Hubbard, Jack L., to Mobil Oil Corporation. Method and apparatus for installing underwater wellhead support. 3,430,695, 3-4-69, Cl. 166-0.5
Hubbard, James R.; and Reid, John B., to Philco-Ford Corporation. Laundry apparatus. 3,464,239, 9-2-69, Cl. 68-134.
Hubbard, Joseph W. Electrical target with impact-deforming electrode. 3,469,843, 9-30-69, Cl. 273-102.2
Hubbard, Lawrence H.: *See—*
Tsao, George T.; Reid, Thornton H.; Hiller, Fred L.; and Hubbard, Lawrence H.,3,432,345.
Hubbard, Otis E.: *See—*
Leslie, John H.; and Hubbard, Otis E.,3,468,241.
Hubbard, Peter J., to Dorr-Oliver Incorporated. Cyclonic reactor. 3,432,101, 3-11-69, Cl. 239-214.17
Hubbard, Richard H.: *See—*
Zimmet, Arthur L.; and Hubbard, Richard H.,3,461,867.
Hubbard, Ruth Florin: *See—*
Hubbard, Bruce W.,3,461,576.
Hubbard, William C.: *See—*
Hancks, Dorothy E.; Hubbard, William C.; and Routh, Claude C.,3,458,857.
Hubbard, William E.: *See—*
Beichler, Robert W.; and Hubbard, William E.,3,451,610.
Hubbard, William M., to Bell Telephone Laboratories, Incorporated. Majority power sensor. 3,433,979, 3-18-69, Cl. 307-235.
Hubbard, William M., to Bell Telephone Laboratories, Incorporated. Timing recovery circuit for use in frequency- modulated, differentially coherent phase modulation (FM-DPM) communication system. 3,480,869, 11-25-69, Cl. 329-112.
Hubbard, Winchester L.: *See—*
Covey, Rupert A.; Smith, Allen E.; and Hubbard, Winchester L.,3,463,859.
Hageman, Howard A.; and Hubbard, Winchester L.,3,458,304.
Hubbard-Hall Chemical Company, The: *See—*
Kirkpatrick, Oscar H.; and Hobush, Albert P., 3,442,783.
Hubbart, Jason C. Andling device. 3,464,142, 9-2-69, Cl. 43-43.13
Hubbell, Dean S.; and Holmgren, Robert E., to Robertson, H. H., Company. Porcelain-enamel on galvanized steels by means of an aluminum coat. 3,475,141, 10-28-69, Cl. 29-183.5
Hubbell, Dean S.; and Howlett, Ernest E., to Robertson, H. H., Company. Porcelain enameled aluminum articles. 3,482,951, 12-9-69, Cl. 29-195.
Hubbell, Franklin R., III, to Walker Manufacturing Company. Muffler with diagonal tube ends. 3,441,105, 4-29-69, Cl. 181-61.
Hubbell, Harvey, Incorporated: *See—*
Adra, Tarek, 3,476,925.
Carissimi, Vincent L., 3,449,706.
Carissimi, Vincent L.; and Lipinski, Vincent F., 3,452,321.
Carlson, Ernest R., 3,452,317.
Carlson, Ernest R.; and Lipinski, Vincent F., 3,474,377.
Fee, Richard A., 3,452,167.
Mackiewicz, Czeslaw, 3,444,345.
Misencik, John; and Lee, Sung C., 3,434,039.
Morris, Alton R.; and McDonald, Thomas M., 3,473,091.
Murphy, Robert M.; Holland, John W.; and McDonald, Thomas M., 3,440,429.
Peterson, Carl B., Jr., 3,426,321.
Peterson, Carl B., Jr., 3,472,119.
Hubbell, Richard S., to American Telephone and Telegraph Company. Signal converter circuit. 3,453,391, 7-1-69, Cl. 179-16.
Hubble, Gerald A.: *See—*
North, John D.; and Hubble, Gerald A.,3,481,466.
Hubble, Ira L. Belt sander or grinder. 3,422,576, 1-21-69, Cl. 51-148.
Hubble, William S.: *See—*
Bracken, Joseph W., Jr.; and Hubble, William S.,3,476,173.
Bracken, Joseph W., Jr.; and Hubble, William S.,3,482,622.
Hubbuch, Leo P., to Du Pont de Nemours, E. I., and Company. Film-forming composition. 3,444,183, 5-13-69, Cl. 260-32.6
Hubby, Laurence M., to Texaco Inc. Electric motor control system for a beam type pumping load. 3,440,512, 4-22-69, Cl. 318-474.
Hube, Arthur B., to American District Telegraph Company. Method and apparatus for detecting waterflow including a non-instantaneously recycling retard element. 3,448,442, 6-3-69, Cl. 340-239.
Hubel, Karl W.; and Braye, Emile H., to Union Carbide Corporation. Five membered zirconium, boron, thallium and gold heterocyclic compounds. 3,426,052, 2-4-69, Cl. 260-429.
Hubele, Adolf: *See—*
Rohr, Otto; and Hubele, Adolf,3,423,470.
Huber, Alfred: *See—*
Brunner, Emil; Hasler, Hans; and Huber, Alfred,3,436,445.
Huber, Ernst Rudolf, to Landis & Gyr, A.G. Rotary step-by-step motor with damper and plural magnet rotor. 3,456,138, 7-15-9, Cl. 310-49.
Huber, Ernst. Device for mixing or surface-treating flowable goods. 3,429,560, 2-25-69, Cl. 259-72.
Huber, Erwin: *See—*
Finkhauser, Dieter; and Huber, Erwin,3,427,404.
Strobelt, Walter; Huber, Erwin; and Friese, Andreas,3,449,527.
Huber, Eugen Wilhelm; and Wilmers, Gottlieb. Hot gas rotary piston machine. 3,483,694, 12-16-69, Cl. 60-24.
Huber, Franz J. A., to United States of America, Air Force. Cooling apparatus for high heat fluxes. 3,478,820, 11-18-69, Cl. 165-47.
Huber, Fritz, to Guhl & Scheiblen A.G. Selective rotary printing machine for printing tickets and the like. 3,453,952, 7-8-69, Cl. 101-91.
Huber, Gerald: *See—*
Winkler, Franz; Knodler, Dietheim; and Huber, Gerald,3,453,178.
Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Flash unit. 3,457,845, 7-29-69, Cl. 95-11.
Huber, Hans-Peter: *See—*
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard,3,483,807.
Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter,3,447,438.
Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter,3,472,695.

Huber, Harry; and Moncorge, Gerard, to CSF-Compagnie Generale de Telegraphie Sans Fil. Gas-filled discharge tube and electrical energy generators using the same. 3,460,024, 8-5-69, Cl. 321-35.
Huber, Helmut; Schaefer, Paul; and Biland, Hans Rudolf, to Ciba Limited. Process for the manufacture of polymers stablized against the effects of ultraviolet rays. 3,423,360, 1-21-69, Cl. 260-47.
Huber, J., & Cie, AG: *See—*
Huber, Jakob, 3,447,773.
Huber, J. M., Corporation: *See—*
Balentine, John Wesly; Iannicelli, Joseph; and Whitley, James B., 3,442,677.
Donaldson, Thomas Alexander, 3,436,059.
Donaldson, Thomas Alexander, 3,464,908.
Iannicelli, Joseph; Millman, Nathan; and Stone, William J. D., 3,471,011.
Lehr, John Dalton; and Wells, John Lee, 3,471,260.
Mays, Robert K.; and Bertorelli, Orlando Leonard, 3,437,441.
Huber, Jakob, to Huber, J., & Cie, AG. Electromagnetic fluid valve having fluid-tight housing for electromagnetic parts. 3,447,773, 6-3-69, Cl. 251-30.
Huber, Joel E., to General Motors Corporation. Photosensitized oxygenation process for preparing 20-ketosteroids from corresponding 22-enamines. 3,468,776, 9-23-69, Cl. 204-158.
Huber, Johann, to MMM Munchener Medigin Mechanik GmbH. Sterilizing process and apparatus. 3,482,930, 12-9-69, Cl. 21-56.
Huber, Johann: *See—*
Ruckborn, Gunther; Donhauser, Friedl; and Huber, Johann,3,429,135.
Huber, John A.; and Baringer, Berlyn E., to U.S. Industries, Inc. Dual roll feeding apparatus. 3,425,612, 2-4-69, Cl. 226-177.
Huber, John A.: *See—*
Baringer, Berlyn E.; Hole, Marvin A.; and Huber, John A.,3,451,237.
Frank, Josef; Clemons, Maurice M.; Huber, John A.; and Baringer, Berlyn E.,3,481,523.
Huber, John Henry, to AMP Incorporated. Coax patch panel in insulative housing members therefor. 3,471,825, 10-7-69, Cl. 339-61.
Huber, Joseph M.: *See—*
Huber, Mortimer J., 3,460,657.
Huber, Kenneth J.; Johnston, Jack F.; Nissen, Edward K.; and Pourie, De Witt R., to Union Starch & Refining Co., Inc. Continuous production of industrial starch pastes. 3,424,613, 1-28-69, Cl. 127-28.
Huber, Ludwig Konrad, to Pennsalt Chemicals Corporation. Chlorinated parabanic acids. 3,433,799, 3-18-69, Cl. 260-309.5
Huber, Ludwig Konrad; and Mandell, Harry Creston, Jr., to Pennsalt Chemicals Corporation. Preparation of amidosulfuryl fluoride by the reaction of trichlorophosphonitridosulfuryl chloride with hydrogen fluoride. 3,431,088, 3-4-69, Cl. 23-357.
Huber, Ludwig Konrad; and Ocone, Luke Ralph, to Pennsalt Chemicals Corporation. Process for manufacture of hydrazine and alkyl substituted hydrazines. 3,442,612, 5-6-69, Cl. 23-190.
Huber, Ludwig Konrad; and Ocone, Luke Ralph, to Pennsalt Chemicals Corporation. Process for manufacture of hydrazine and alkyl substituted hydrazines. 3,454,361, 7-8-69, Cl. 23-190.
Huber, Ludwig: *See—*
Haag, Franz; and Huber, Ludwig,3,447,878.
Huber, Manfred; and Klimek, Norbert, to English Numbering Machines Limited. Pawl and ratchet stepping mechanisms. 3,451,279, 6-24-69, Cl. 74-128.
Huber, Mortimer J., to Huber, Joseph M. Torque clutches. 3,460,657, 8-12-69, Cl. 192-61.
Huber, Richard, to Varta Pertrix-Union G.m.b.H. Galvanic dry cells. 3,440,104, 4-22-69, Cl. 136-103.
Huber, Robert H.: *See—*
Hall, George D.; Huber, Robert H.; and Wagner, Robert W.,3,430,084.
Monpetit, Louis; and Huber, Robert,3,443,111.
Huber, Robert, to Societe des Procedes Modernes d'Injection Sopromi. Fuel injection system for internal-combustion engines. 3,460,520, 8-12-69, Cl. 123-32.
Huber, Robert, to Societe des Procede Modernes d'Injection Sopromi. Electromagnetic fuel-injection valve. 3,464,627, 9-2-69, Cl. 239-96.
Huber, Robert, to Societe des Procedes Modernes d'Injection Sopromi. Safety device for electromagnetic fuel-injection spray nozzles for internal combustion engines. 3,481,542, 12-2-69, Cl. 239-71.
Huber, Roy L.: *See—*
Dawson, John R.; and Huber, Roy L.,3,487,206.
Huber, Roy Lee. Perpetual calendar for watch band. 3,474,558, 10-28-69, Cl. 40-107.
Huber, Victor R., to Goodrich, B. F., Company, The. Dual chamber tire and inflating means. 3,480,064, 11-25-69, Cl. 152-340.
Huber, Victor R.; and Cardenas, Armando, to Goodrich, B. F., Company, The. Dual chambered tire valve. 3,476,168, 11-4-69, Cl. 152-427.
Hubert, Andre J.: *See—*
Viehe, Heinz G.; and Hubert, Andre J.,3,439,038.
Hubert, Andre, to Union Carbide Corporation. Novel process for the preparation of olefinic compounds and derivatives thereof. 3,478,122, 11-11-69, Cl. 260-677.
Hubert, Franz Hans, to Becton, Dickinson and Company. Catheter needle. 3,469,579, 9-30-69, Cl. 128-214.4
Hubert, Gustav, to Ultra-Violet Products, Inc. Signature verification system. 3,467,825, 9-16-69, Cl. 250-78.
Hubert, Gustav, to Ultra-Violet Products, Inc. Signature comparison system. 3,487,210, 12-30-69, Cl. 250-78.
Hubert, Joseph B.: *See—*
Armbruster, Ronald H. D.; and Hubert, Joseph B.,3,446,167.
Hubert, Robert L.: *See—*
Langford, Thomas S.; and Hubert, Robert L.,3,477,391.
Hubert, W., & Co. Machinefabriek N.V.: *See—*
Jellesma, Anne, 3,464,360.
Hubiak, Walter: *See—*
Lohr, Raymond J.; Hubiak, Walter; and Carver, Richard N.,3,453,921.
Hubin, Allen J.; and Smith, Samuel, to Minnesota Mining and Manufacturing Company. Polyether polyprimary polyamines and elastomeric products thereof. 3,436,359, 4-1-69, Cl. 260-2.
Hubinger Company, The: *See—*
Elizer, Lee H., 3,449,322.
Hubka, Theodore, to General Precision Systems Inc. Doppler radar altimetry apparatus. 3,427,615, 2-11-69, Cl. 343-14.
Hubner, Erwin, to Siemens Aktiengesellschaft. Cathode having an end face carrier for an emission substance and the production thereof. 3,441,779, 4-29-69, Cl. 313-346.
Hubner, Erwin, to Leitz, Ernst, G.m.b.H. Overhead projector. 3,486,817, 12-30-69, Cl. 353-98.
Hubner, Kurt: *See—*
Chauvy, Daniel; Guye, Raymond; and Hubner, Kurt,3,427,479.
Hubner, Kurt, to Centre Electronique Horloger S.A. Semi-conducting resistance and a method for its manufacture. 3,453,498, 7-1-69, Cl. 317-101.
Hubner, Rolf. Method of and device for following combustion in mines and the like. 3,420,575, 1-7-69, Cl. 299-1.
Hubner, Rolf. Gas analyzer with gas-sample aspiration. 3,427,862, 2-18-69, Cl. 73-23.
Hubner, Siegfried, to Carl, Walther, Sportwaffenfabrik. Silencer for firearms discharging gasses at supersonic velocity. 3,478,841, 11-18-69, Cl. 181-47.
Hubner, Wolfgang: *See—*
Fischer, Josef; Krautwald, Herbert; and Hubner, Wolfgang,3,482,193.
Krautwald, Herbert; Hubner, Wolfgang; Bosch, Werner; and Aigner, Georg,3,451,022.
Huc, Jean M., to Compagnie Generale D'Electro-Ceramique. High voltage insulating column with potential distribution rings. 3,470,308, 9-30-69, Cl. 174-141.
Huck, Alfred J.; and Ketterer, Charles W., to Knapp-Monarch Company. Toaster. 3,452,670, 7-1-69, Cl. 99-329.
Huck, Charles M., to Ortho Pharmaceutical Corporation. Tablet dispensing device. 3,437,236, 4-8-69, Cl. 221-86.
Huck, Charles M., to Ortho Pharmaceutical Corporation. Insertion unit. 3,448,737, 6-10-69, Cl. 128-127.
Huck, George E., to American Pipe and Construction Co. Method and apparatus for fabricating thin- walled large diameter steel pipe cylinders. 3,432,914, 3-18-69, Cl. 29-477.3
Huck Manufacturing Company: *See—*
Baugh, Charles W., 3,424,051.
Baugh, Charles W., 3,425,259.
Chirco, Peter R., 3,475,945.
Colosimo, Louis E., 3,446,509.
Hurd, Ramon L.; and Wittmeyer, Herbert M., 3,459,447.
Hurd, Ramon L., 3,478,564.
Orloff, John F.; and Baugh, Charles W., 3,421,562.
Reynolds, Perry J.; and Orloff, John F., 3,464,306.
Reynolds, Perry J., 3,464,472.
Huck, Nelton D.: *See—*
Schroeder, Adolph C.; and Huck, Nelton D.,3,477,243.
Huck, William F. Multi-color rotary printing press. 3,486,444, 12-30-69, Cl. 101-152.
Huck, William F.; and Urban, Joseph, to Brunswick Corporation. Bowling scoring apparatus. 3,433,479, 3-18-69, Cl. 273-54.
Huckabay, William B. Sonic transmitter. 3,428,940, 2-18-69, Cl. 340-12.
Huckabee, James M., to International Business Machines Corporation. Recording and reproducing heads with means for recording both magnetically and mechanically. 3,430,005, 2-25-69, Cl. 179-100.1
Huckaby, Harold, to Russell Tool Co. Tool holder. 3,465,623, 9-9-69, Cl. 82-36.
Huckell, Gary R.: *See—*
Hedger, Earl G.; Huckell, Gary R.; and Leonard, Daniel R.,3,437,750.
Hucks, Helmut; Noa, Fritz; and Dahl, Julius, to Maschinenfabrik Froriep G.m.b.H. Heavy machine tool. 3,460,435, 8-12-69, Cl. 90-15.

Huckstadt, Harald; Saleck, Wilhelm; Ulrich, Hans; Randolph, August; and Grabhofer, Herbert, to Agfa-Gevaert Aktiengesellschaft. Photographic silver halide emulsions stabilized with 2-iminothiazolones. 3,434,842, 3-25-69, Cl. 96-109.
Huckstadt, Harold; Saleck, Wilhelm; Randolph, August; and Ranz, Erwin, to Agfa-Gevaert Aktiengesellschaft. Spirocyclic quaternary nitrogen compounds as silver halide sensitizers. 3,471,296, 10-7-69, Cl. 96-107.
Hudacko, Vincent J.: *See—*
Orkin, Stanley S.; and Hudacko, Vincent J.,3,428,374.
Hudak, Thomas P., to Akron National Bank and Trust Company. Child's safety seat. 3,454,304, 7-8-69, Cl. 297-389.
Hudak, William J.: *See—*
Grisar, Johann Martin; and Hudak, William J.,3,439,034.
Grisar, Johann Martin; and Hudak, William J.,3,439,035.
Huddle, Carl F. Damping means for portable structure. 3,465,764, 9-9-69, Cl. 135-1.
Huddle, Francis Godfrey, to Distillers Company Limited, The. Assembly units. 3,444,884, 5-20-69, Cl. 137-316.
Huddle, Harley E., to Cincinnati Cleaning and Finishing Machinery Company. Handling and cleaning fragile containers. 3,442,708, 5-6-69, Cl. 134-32.
Huddleston, Charles R. Sub-target aiming device. 3,475,821, 11-4-69, Cl. 33-46.
Huddleston, Roy L., to United States of America, Atomic Energy Commission. Hydrostatic extrusion apparatus. 3,484,806, 12-16-69, Cl. 72-60.
Huddleston, Stanley R.: *See—*
Miller, Meryl E.; Huddleston, Stanley R.; and Work, Carl F.,3,480,934.
Huddleston, Thomas J.: *See—*
Johnston, Chester C.; and Huddleston, Thomas J.,3,428,410.
Huddy, Robert A., to Sierra Engineering Company. Introducer for epidural needle. 3,469,580, 9-30-69, Cl. 128-215.
Hudecek, Carl J.: *See—*
Finn, John B.; and Hudecek, Carl J.,3,468,646.
Hudgell, Alfred W. D.: *See—*
Parr, William G.; and Hudgell, Alfred W. D.,3,457,342.
Hudgell, Alfred William David, to British Nylon Spinners Limited. Spinneret for heterofilaments. 3,469,279, 9-30-69, Cl. 18-8.
Hudgens, James J.: *See—*
Constantakis, Roberto; and Hudgens, James J.,3,440,685.
Hudgins, Charles M., Jr.; Casad, Burton M.; and Haden, Elard L., to Continental Oil Company. Use of electro-osmosis plus freezing in construction of underground storage tanks. 3,424,662, 1-28-69, Cl. 204-180.
Hudgins, Eugene: *See—*
Rossman, Joseph J.; and Hudgins, Eugene,3,463,044.
Hudig Kommanditgesellschaft: *See—*
Schinke, Horst, 3,446,398.
Hudis, Michael I., to Rex Chainbelt Inc. Slip form paver with slip form release. 3,421,418, 1-14-69, Cl. 94-39.
Hudnall, Alton. Bicycle structure. 3,485,508, 12-23-69, Cl. 280-234.
Hudson, Arthur F. Bearing. 3,466,101, 9-9-69, Cl. 308-6.
Hudson, Arthur F. Bearing construction. 3,469,893, 9-30-69, Cl. 308-6.
Hudson, Charles B., to Vineland Poultry Labs. Multifunctional Laryngotracheitis vaccine and method of making the same. 3,444,293, 5-13-69, Cl. 424-89.
Hudson, Clifford Harold; Ashton, Thomas Richard; Cottle, Victor Claude Herbert; and Jackson, David, to Graham-Enock Manufacturing Co. Limited, and Express Dairy Company (London) Limited. Packaging. 3,466,850, 9-16-69, Cl. 53-28.
Hudson, Doyle R., to Olinkraft, Inc. Closing device. 3,458,969, 8-5-69, Cl. 53-137.
Hudson, E. W., Limited: *See—*
Archer, Richard John, 3,422,882.
Archer, Richard John, 3,438,137.
Hudson Engineering Company: *See—*
Napolitano, Pellegrino E., 3,425,436.
Napolitano, Pellegrino E., 3,451,417.
Napolitano, Pellegrino E., 3,481,274.
Hudson Engineering Corporation: *See—*
Davidson, Eugene M.; Gunter, Addison Y.; and Owen, Tom E., 3,482,299.
Gunter, Addison Y., 3,438,433.
Hudson, Frederick W.; and Cranch, John E., to Xerox Corporation. Corona charging apparatus with means to urge a flow of aeriform fluid across the corona wires. 3,471,695, 10-7-69, Cl. 250-49.5
Hudson, H. D., Manufacturing Company: *See—*
Witek, Joseph; and Beercheck, Thomas, 3,481,481.
Hudson, Harry W., to Twentieth Century Products Corp. Flush valve tripping device. 3,443,262, 5-13-69, Cl. 4-67.
Hudson, Hugh P.: *See—*
Walsh, John H.; Hudson, Hugh P.; Botham, John C.; and Landon, Joseph E.,3,462,263.
Hudson, James R.: *See—*
Frasier, Carlton R.; Hittel, Lorenz A.; Hudson, James R.; Rakoczi, Laszlo L.; Sansbury, David L.; and Wiener, Jerome B.,3,483,521.
Hudson, Jesse S., to Nypel, Inc. Cutter. 3,483,780, 12-16-69, Cl. 83-81.
Hudson, John W., to USS Agri-Chemicals, Inc., mesne. Production of granular magnesium ammonium phosphate. 3,459,530, 8-5-69, Cl. 71-33.
Hudson, John W.; and Ferguson, Gerald D., to USS Agri-Chemicals, Inc., mesne. Granulation of sewage sludge. 3,442,637, 5-6-69, Cl. 71-12.
Hudson, John W.; and Ferguson, Gerald D., to USS Agri-Chemicals, Inc., mesne. Production of granular sewage sludge. 3,451,800, 6-24-69, Cl. 71-12.
Hudson, Joseph Dunn: *See—*
Harvey, Jack Lane; and Hudson, Joseph Dunn,3,472,720.
Hudson, Kenneth C., to RCA Corporation. Laser recorder with optical filter. 3,465,347, 9-2-69, Cl. 346-1.
Hudson, Kenneth C.: *See—*
Haynes, Harold E.; and Hudson, Kenneth C.,3,448,211.
Hudson, Lester S.; and Ott, Eugene G., to Dresser Industries, Inc. Cutting tool having hard insert in hole surrounded by hard facing. 3,461,983, 8-19-69, Cl. 175-375.
Hudson Machine & Tool Corporation: *See—*
Richter, Walter, 3,427,840.
Richter, Walter, 3,470,726.
Hudson Machine Works, Inc.: *See—*
Burgess, Harry Lee, 3,460,614.
Hudson, Marvin E., to Avco Corporation. Spin time recorder. 3,453,892, 7-8-69, Cl. 73-489.
Hudson, Monie S. Process and apparatus for treating wood. 3,427,186, 2-11-69, Cl. 117-116.
Hudson, Monie S. Method and apparatus for longitudinally impregnating wood. 3,443,881, 5-13-69, Cl. 21-7.
Hudson, Orlando. Fireproof container for oxidizable materials including explosives. 3,446,411, 5-27-69, Cl. 229-3.5
Hudson Photographic Industries Inc.: *See—*
Martinez, Eugene, 3,455,631.
Hudson, Raymond A.: *See—*
Walchle, David L.; Hudson, Raymond A.; and Sekulich, Stephen A.,3,443,845.
Hudson, Robert B.; and Mesmer, Robert E., to Monsanto Company. Production of sodium tripolyphosphate. 3,431,069, 3-4-69, Cl. 23-106.
Hudson, Russell L.: *See—*
Shapiro, Hymin; and Hudson, Russell L.,3,443,919.
Shapiro, Hymin; and Hudson, Russell L.,3,475,145.
Hudson, Virginia Z. Toothbrush with dentifrice holder. 3,432,245, 3-11-69, Cl. 401-132.
Hudson, William Jeffrey, Jr.; and Gaw, John William, to AMP, Incorporated. Vacuum tube termination. 3,434,097, 3-18-69, Cl. 339-89.
Hudspeth, Thomas: *See—*
Roney, Robert K.; Rosen, Harold A.; Hudspeth, Thomas; Suyematsu, Herbert T.; and Eick, Meredith K.,3,453,621.
Hudswell, Fred; and Waldron, John Clifford Hildrith, to United Kingdom Atomic Energy Authority. Process for producing a tantalum oxide ion exchange material. 3,481,694, 12-2-69, Cl. 23-15.
Hueber, Werner G.; and Hecker, Klaus J., to United States of America, Navy. Adaptive control system for airborne television camera. 3,435,140, 3-25-69, Cl. 178-7.81
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., to Consolidation Coal Company. Production of hydrogen via the steam-iron process utilizing dual solids recycle. 3,442,619, 5-6-69, Cl. 23-214.
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., to Consolidation Coal Company. Production of hydrogen via the steam-iron process. 3,442,620, 5-6-69, Cl. 23-214.
Huebner, Charles Ferdinand; and Bencze, William Laszlo, to Ciba Corporation. Basic ethers of dihydronaphthyl-phenols. 3,422,114, 1-14-69, Cl. 260-296.
Huebner, Charles Ferdinand; and Werner, Lincoln Harvey, to Ciba Corporation. 2-Aminomethyl-2,3-dihydrobenzofurans as antihypertensive agents. 3,459,860, 8-5-69, Cl. 424-250.
Huebner, Charles Ferdinand; and Werner, Lincoln Harvey, to Ciba Corporation. 2-(Piperazino)methyl-2,3-dihydrobenzofurans. 3,470,185, 9-30-69, Cl. 260-268.
Huebner, Edward J.: *See—*
Thomas, Robert Warren; Huebner, Edward J.; and Yerger, Harold,3,455,067.
Huebner, Guenther; and Maenz, Herbert, to Chemie Gruenenthal G.m.b.H. Auxiliary transfer device. 3,484,849, 12-16-69, Cl. 137-575.
Huebner, Robert J., to Owens-Illinois, Inc. Glass forming container neck ring. 3,424,569, 1-28-69, Cl. 65-172.
Huebner, Robert L. Method of reconditioning crankshafts, camshafts, and the like. 3,419,949, 1-7-69, Cl. 29-401.
Huebner, Victor R., to Beckman Instruments, Inc. Continuous particle electrophoresis apparatus having improved particle band stability. 3,458,428, 7-29-69, Cl. 204-301.
Huebner, Victor R., to Beckman Instruments, Inc. Method for the concentration of trace impurities in gaseous media by absorption. 3,486,298, 12-30-69, Cl. 55-67.

Huebscher, Herbert, to Hazeltine Corporation, mesne. Position monitoring system. 3,474,460, 10-21-69, Cl. 343-6.5

Huebscher, Richard G.; and Hacha, Thomas H., to United Aircraft Corporation, mesne. Fuel cell with heat and water vapor removing means. 3,455,743, 7-15-69, Cl. 136-86.

Huebschman, Melvin C., to Monsanto Company. Optical determination of low luster in drawn nylon. 3,421,820, 1-14-69, Cl. 88-14.

Hueck, Hendrik J.: *See—*
Van Bochove, Cornelis; Hueck, Hendrik J.; and Wittcoff, Harold,3,453,067.

Hueco, S.A.: *See—*
Serna, Miguel Fisac, 3,481,091.

Huedepohl, Hugo F.: *See—*
Abbott, Thomas I.; and Huedepohl, Hugo F.,3,473,926.

Huelsmann, Hans-Leo; and Renckhoff, Gustav, to Chemische Werke Witten G.m.b.H. Process for the preparation of 1,4-cyclohexane dicarboxylic acid dialkyl esters. 3,428,668, 2-18-69, Cl. 260-468.

Huelsmann, Hans-Leo; and Renckhoff, Gustav, to Chemische Werke Witten GmbH. Process for the preparation of carboxylic acid aryl esters. 3,476,785, 11-4-69, Cl. 260-410.5

Huelsmann, Hans-Leo: *See—*
Wolfes, Wolfang; Renckhoff, Gustav; and Huelsmann, Hans-Leo,3,459,714.

Hueni, Albrecht; Schweizer, Ernst; and Schroeder, Dorothy, to Ciba Corporation. Biphenyl, diphenylalkane and diphenylether compounds, amino-substituted on the phenyl rings. 3,445,467, 5-20-69, Cl. 260-256.4

Huesgen, Eugene L., to Carrier Corporation. Gas compression system having inlet gas control. 3,441,200, 4-29-69, Cl. 230-5.

Huesker-Stiewe, Karl; and Wagner, Otto. Form for concrete or the like. 3,486,341, 12-30-69, Cl. 61-38.

Huet, Pierre. Pressure sensitive devices. 3,455,165, 7-15-69, Cl. 73-398.

Huette, Walter F.; Struger, Odo J.; and Brandt, Ivan L., to Allen-Bradley Company. Control circuit responsive to the sum total current to a load. 3,444,437, 5-13-69, Cl. 317-148.5

Huey, Abram D., III; and McGhee, John D., to Du Pont de Nemours, E. I., and Company. Curve resolver. 3,459,932, 8-5-69, Cl. 235-197.

Huey, William G.; Armento, William H.; and Stanley, Lester N., to GAF Corporation. Process for dyeing fibers of polyethylene terephtha- late and blends thereof with cotton with monoazo dyestuffs. 3,437,418, 4-8-69, Cl. 8-21.

Hufeld, John L.: *See—*
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.

Huff, Bruce E.: *See—*
Huff, Clark L.; and Huff, Bruce E.,3,444,674.

Huff, Clark L.; and Huff, Bruce E. Fence cleaner. 3,444,674, 5-20-69, Cl. 56-25.4

Huff, Donald R., to Ozark Reconditioning Company. Method and apparatus for producing molded hollow articles. 3,449,188, 6-10-69, Cl. 156-173.

Huff, Earl C.; and Pattee, John R., to Weston Instruments, Inc. Magnetic densimeter. 3,455,169, 7-15-69, Cl. 73-454.

Huff, George F.; and Voegtly, Richard O., to Mine Safety Appliances Company. Spray coating apparatus. 3,434,458, 3-25-69, Cl. 118-301.

Huff, Herbert G., to Kelvinator, Inc., mesne. Combination window and shutter arrangement for range oven doors. 3,451,389, 6-24-69, Cl. 126-200.

Huff, Herbet G.; and Shelly, Donald J., to Kelvinator, Inc., mesne. Shutter for window in oven door. 3,433,213, 3-18-69, Cl. 126-197.

Huff, James R.: *See—*
Elliott, William E.; and Huff, James R.,3,445,290.

Huff, John B., to United States of America, Interior. Process for preserving fish by irradiation. 3,434,850, 3-25-69, Cl. 99-217.

Huff, Joseph H., to Dreyer, Floyd H. Engine. 3,451,382, 6-24-69, Cl. 123-18.

Huff, Karl; and Hofmeier, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for producing polycarbonate films and product thereof. 3,445,561, 5-20-69, Cl. 264-288.

Huff, Major Walter. Cryogenic method and apparatus for drilling hot geothermal zones. 3,424,254, 1-28-69, Cl. 175-17.

Huff, Major Walter, to Sea-Chem Industries Ltd., mesne. Sea plant harvesting apparatus. 3,449,892, 6-17-69, Cl. 56-9.

Huff, Walter, to Sea-Chem Industries Ltd., mesne. Apparatus and method for culturing and propagating marine algae. 3,439,449, 4-22-69, Cl. 47-1.4

Huffaker, James Edward; and Beard, Bramlet L., to Eastman Kodak Company. Sizing and layout of autostereographic prints for graphic arts reproduction. 3,420,663, 1-7-69, Cl. 96-40.

Huffaker, James E., to Eastman Kodak Company. Preregistration and layout of three- dimensional prints. 3,462,226, 8-19-69, Cl. 356-72.

Hufferd, George H., to Clevite Corporation. Piezoelectrically ignited gas torch. 3,431,058, 3-4-69, Cl. 431-264.

Huffman, Charles O.: *See—*
Curtze, Edward W.; Huffman, Charles O.; and Mikus, Clifford A.,3,424,357.

Huffman, Delbert W.: *See—*
Froehner, Warren P.; Swallow, Robert E.; and Huffman, Delbert W.,3,450,155.

Huffman, Donald D.; and Jackel, Arthur P., to Westinghouse Air Brake Company. Train identification system. 3,479,503, 11-18-69, Cl. 246-124.

Huffman, Donald W., to Bell Telephone Laboratories, Incorporated. Selector matrix check circuit. 3,460,093, 8-5-69, Cl. 340-166.

Huffman, Ernestine H.: *See—*
Crovatt, Lawrence W., Jr.; and Huffman, William A. H.,3,440,226.

Huffman, Harold W., to Hamilton Tool Company, The. Method of and means for distributing glue to a moving web. 3,476,631, 11-4-69, Cl. 156-291.

Huffman, Jerry P.: *See—*
Auer, John H., Jr.; and Huffman, Jerry P.,3,474,400.
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P.,3,423,733.
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P.,3,482,208.

Huffman, Kenneth Robert; and Ullman, Edwin Fisher, to American Cyanamid Company. 3-Aroyl-2-alkylchromone compounds. 3,444,212, 5-13-69, Cl. 260-345.2

Huffman Manufacturing Company, The: *See—*
Holloway, Richard D., 3,422,553.
Silbereis, Joseph A.; Holloway, Richard D.; and Sadler, Kenneth B., 3,442,335.
Wolf, Donald A., 3,443,825.

Huffman, Mervin C., to Gardner-Denver Company. Exhaust pipe assembly for pneumatic tools. 3,444,692, 5-20-69, Cl. 60-64.

Huffman, Mervin C.: *See—*
Vincent, Robert R.; and Huffman, Mervin C.,3,441,323.

Huffman, Tommie R., to Motorola, Inc. Buried integrated circuit radiation shields. 3,431,468, 3-4-69, Cl. 317-101.

Huffman, Tommie R.; Ehlenberger, Gary G.; and Mc Donald, Robert A., to Motorola Inc. Phosphorus diffusion system. 3,442,725, 5-6-69, Cl. 148-189.

Huffman, William A. H.: *See—*
Crovatt, Lawrence W., Jr.; and Huffman, William A. H.,3,440,226.

Hufford, James Howard, to Bliss, E. W., Company. AC-DC common load switch. 3,433,971, 3-18-69, Cl. 307-18.

Huffstutler, Miles C., Jr.; and Kerns, Becky T., to Bell Telephone Laboratories, Incorporated. Carbon transmitter with moving electrode fins for granule loosening and enhanced electrode coupling. 3,437,764, 4-8-69, Cl. 179-124.

Hufgard, Albert. Series of structural plug-in components for erection of scaffolding, frameworks or the like. 3,429,093, 2-25-69, Cl. 52-648.

Hufnagel, Andrew, to Westinghouse Air Brake Company. Fail-safe vital relay contact arrangement. 3,433,917, 3-18-69, Cl. 200-166.

Hufnagel, Andrew, to Westinghouse Air Brake Company. Armature arrangement. 3,461,411, 8-12-69, Cl. 335-270.

Hufton, Arthur G.: *See—*
Dogadko, Peter; and Hufton, Arthur G.,3,433,208.

Hufton, Arthur G.; and Reddel, Robert J., to Motorola, Inc. Distributor. 3,426,740, 2-11-69, Cl. 123-148.

Hug, Joseph Andre, to Societe Industrielle Bull-General Electric (Societe Anonyme). Superconductive data storage device. 3,441,915, 4-29-69, Cl. 340-173.1

Hug, Richard C., to Clayton Corporation. Quick gassing tilt valve. 3,438,408, 4-15-69, Cl. 141-20.

Hug, Richard C., to Clayton Corporation. Headless valve assembly for dispensing containers. 3,438,610, 4-15-69, Cl. 251-303.

Hug, Richard C.: *See—*
Huling, James K.; Gross, Jerome A.; and Hug, Richard C.,3,462,047.

Huge, Ernest C. Furnace floor arrangement. 3,457,903, 7-29-69, Cl. 122-235.

Hugel, Fred, to Sanders Associates, Inc. Tape cartridge for use with tape recorders. 3,438,590, 4-15-69, Cl. 242-55.13

Hugel, Fred, to Sanders Associates, Inc. Releasable one-way clutch for a tape reel. 3,459,390, 8-5-69, Cl. 242-55.13

Hugel, Fred: *See—*
Miville, Charles A.; and Hugel, Fred,3,451,635.

Hugel, Helmut; and Manuel, Tom, to Christensen Diamond Products Company. Core orienting apparatus and method. 3,450,216, 6-17-69, Cl. 175-44.

Hugentobler, Max. Water heater for coffee machines. 3,446,937, 5-27-69, Cl. 219-297.

Hugger, Richard H., to Uniroyal Inc. Apparatus for curing tires. 3,443,280, 5-13-69, Cl. 18-17.

Huggett, T. Virgil: *See—*
Brauer, Edwin H.; and Huggett, T. Virgil,3,426,569.

Huggins, Carl T.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,318.

Huggins, Clyde J., to Monsanto Company. Preparation of filamentary test samples. 3,474,524, 10-28-69, Cl. 29-505.
Huggins, Dale K.; and Fox, William B., to Allied Chemical Corporation. Cesium difluorochlorate and process for producing same. 3,423,168, 1-21-69, Cl. 23-50.
Huggins, Donald G.: *See*—
Miron, Roy R. H.; Huggins, Donald G.; Rinne, John E.; and Summerfelt, Vernon E.,3,423,264.
Huggins, Homer D., to Modine Manufacturing Company. Oil cooler. 3,486,489, 12-30-69, Cl. 123-41.33
Huggins, James A. Retractable seat belt. 3,429,614, 2-25-69, Cl. 297-388.
Huggins, James M., to Monsanto Company. Liquid detergent processes. 3,457,176, 7-22-69, Cl. 252-135.
Huggins, John, to Lansing Bagnall Limited. Hydraulic transmissions for vehicles. 3,473,321, 10-21-69, Cl. 60-19.
Huggle, Kurt: *See*—
Gammel, Josef; and Huggle, Kurt,3,437,933.
Hugh Steeper Limited: *See*—
Collins, Dennis William, 3,474,466.
Hughel, Thomas J., to General Motors Corporation. Storage battery positive plate with lead fibers. 3,466,193, 9-9-69, Cl. 136-26.
Hughes Aircraft Company: *See*—
Abbott, Edward A., Jr., 3,428,832.
Alexander, Ben A., 3,473,049.
Althaus, Edward J., 3,433,934.
Anderson, John Robert; and Work, George A., 3,465,522.
Andres, Frank H.; and Gentile, Anthony L., 3,428,438.
Antes, Jack E., 3,422,394.
Aronoff, Ethan, 3,427,618.
Asendorf, Robert H., 3,457,552.
Berry, Robert L.; and Vodopia, Anthony L., 3,457,730.
Bers, Naum S., 3,483,746.
Bockwoldt, Walter H.; and Lew, Clinton, 3,453,382.
Bower, Robert W.; and Stewart, Richard F., 3,421,092.
Bower, Robert W., 3,472,712.
Bridges, William B.; and Clark, Peter O., 3,427,567.
Bridges, William B.; and Popa, Adrian E., 3,471,804.
Brody, Lee; and Hill, William H., 3,449,949.
Broomhall, Gordon E.; and Ferranto, Felix L., 3,436,514.
Brown, Wilbur P., Jr., 3,450,460.
Burnsweig, Joseph, Jr.; Fairbanks, Bert J.; and Rolstead, Albert A., 3,421,121.
Burnsweig, Joseph, Jr.; and O'Brien, Larry H., 3,435,342.
Burnsweig, Joseph, Jr., 3,460,067.
Butcher, Walter W., 3,427,808.
Buyers, Archie G.; and Mohr, Augustus J., Jr., 3,468,647.
Cameron, Harold A., 3,440,558.
Cerko, Robert S., 3,453,491.
Chan, Yum T., 3,477,039.
Chapman,Arthur S., 3,420,594.
Clark, Peter O., 3,487,327.
Comstock, John S., 3,454,898.
Congleton, Robert S.; and Spaeth, Mary L., 3,471,800.
Congleton, Robert S.; and Keister, Frank Z., 3,486,217.
Cooper, Paul V., 3,449,698.
Cowans, Kenneth W., 3,423,948.
Cowans, Kenneth W., 3,469,409.
Dill, Hans G., 3,454,844.
Dill, Hans G., 3,457,476.
Dreyer, Roy W., 3,440,716.
Du Hamel, Raymond H., 3,432,775.
Eckhardt, Wilfried O., 3,475,636.
Evtuhov, Viktor, 3,471,799.
Farnsworth, Robert P., 3,435,233.
Ferrer, John J., 3,481,667.
Forman, Barry J.; Knechtli, Ronald C.; and Wada, Yasuo, 3,439,297.
Forster, Donald C., 3,471,803.
Forward, Robert L.; and Jacobson, Alexander D., 3,442,566.
Gallagher, Hayden E.; and Knauer, Wolfgang, 3,439,210.
Garland, William J.; Hassencahl, Lloyd J.; Lenhart, Donald D.; and Wolfe, George, Jr., 3,431,392.
Gaskill, James Robbins, Jr.; and Vitt, George G., Jr., 3,436,589.
Gee, Allen, 3,430,335.
Gee, Allen, 3,458,777.
Gerpheide, Burton A., 3,459,879.
Goodwin, Francis E., 3,482,099.
Gorgenyi, Geza E., 3,462,349.
Griest, Raymond Howard, 3,475,697.
Hallock, David D.; and Dain, Harvey W., 3,453,490.
Hansen, James W.; and King, Leonard T., 3,444,419.
Hansen, Jay M.; and May, Michael, 3,448,438.
Hansen, Siegfried, 3,468,080.
Hansen, Siegfried, 3,486,238.
Harmon, William George; and de Wolf, James L., 3,445,772.
Heil, Hans W., 3,479,711.
Henderson, Frank D.; and Kryske, Leon E., 3,445,744.
Hesse, Kenneth R., 3,473,200.
Hill, William H., 3,487,192.
Ho, Er-Chun, 3,426,300.
Hotz, David F., 3,445,787.
Iorillo, Anthony J., 3,442,468.
Jones, Sheldon; and Briggs, Raymond W., 3,445,663.
Jones, Sheldon; and Schleifer, Otto, 3,476,921.
Kennedy, Joseph B., 3,435,273.
Ketchpel, Richard D., 3,462,642.
King, Harry J., 3,443,383.
King, Harry J.; Molitor, Jerome H.; and Ward, James W., 3,443,570.
King, Harry J., 3,444,816.
Klemmer, Jack W., 3,441,804.
Kluss, William H., 3,462,626.
Knaur, Wolfgang; and Gallagher, Hayden E., 3,421,039.
Knechtli, Ronald C.; and Wada, Yasuo, 3,439,224.
Knechtli, Ronald C., 3,439,225.
Lautzenhiser, Robert L.; and Michel, James D., 3,478,995.
Law, Russell R., 3,423,526.
Law, Russell R., 3,449,757.
Law, Russell R., 3,463,876.
Lierley, John T.; and Clissett, Kenneth E., 3,444,494.
Lopez, Gordon R.; and Frisman, Mark M., 3,485,282.
Lotspeich, James F., 3,424,513.
Lym, Vernon W., 3,444,397.
Lym, Vernon W., 3,487,461.
MacKenzie, Edward T., 3,421,038.
Maiman, Theodore H., 3,451,010.
Mankarious, Ramzy G., 3,480,783.
Mayer, James W.; Marsh, Ogden J.; and Baron, Robert E., 3,424,910.
Mayer, James W.; Bower, Robert W.; and Shifrin, Gordon A., 3,483,443.
McArthur, Donald B., 3,486,093.
McLendon, James R.; and Laakmann, Peter, 3,463,941.
Modiano, Victor J., 3,480,868.
Moulin, Norbert L., 3,425,024.
Moulin, Norbert L., 3,460,230.
Myer, Jon H., 3,463,594.
O'Brien, Lawrence H., 3,432,679.
O'Brien, Lawrence H.; and Jamison, Richard S., 3,434,148.
Oess, Frederick G., 3,453,473.
Olson, Gaylord G.; and Dorfman, Steven D., 3,453,047.
Parham, O D, 3,487,315.
Picker, Amos, 3,442,570.
Picker, Amos, 3,480,482.
Rado, John A., 3,478,323.
Richmond, Richard C.; and Ogushi, Hisashi H., 3,469,239.
Riley, Ray L., 3,430,214.
Rockey, Ronald J., 3,453,624.
Roney, Robert K.; Rosen, Harold A.; Hudspeth, Thomas; Suyematsu, Herbert T.; and Eick, Meredith K., 3,453,621.
Roscoe, Stanley N., 3,486,815.
Saia, Frank J.; and Quetsch, John, 3,440,496.
Schlichting, Kenneth J., 3,422,285.
Shelton, Vernon E., 3,469,016.
Shifrin, Gordon A., 3,467,474.
Streeter, Edward, 3,486,816.
Taylor, Elmer N., 3,463,937.
Thaler, Samuel, 3,441,934.
Todd, Marion N., Jr., 3,443,853.
Toffler, Jerome E., 3,446,996.
Vitt, George G., Jr.; and Gaskill, James R., Jr., 3,454,772.
Wada, Yasuo, 3,439,223.
Waltz, Albert Richard, 3,450,259.
Weglein, Rolf D.; and Kittoe, Delos T., 3,426,291.
Wendland, Paul H., 3,423,623.
Wendland, Paul H., 3,444,381.
Wilson, Robert G.; Brewer, George R.; and Jamba, Douglas M., 3,479,545.
Woodbury, Eric J.; and Sooy, Walter R., 3,464,026.
Woodbury, Eric J.; and Morse, James H., 3,471,801.
Yaggy, Leon S., 3,432,717.
Zoot, Robert M., 3,481,672.
Zuleeg, Rainer; and Braunstein, Morris, 3,454,847.
Hughes, Alvin W. Preparing sausage batter for cooking and cooling. 3,478,797, 11-18-69, Cl. 146-192.
Hughes, Arthur V., to Kuhlman Electric Company. Method of manufacturing cores. 3,466,744, 9-16-69, Cl. 29-606.
Hughes, Brian Geoffrey: *See*—
Harris, Neville Wreford; and Hughes, Brian Geoffrey,3,441,783.
Hughes, Carl N. Automobile air conditioning system. 3,447,596, 6-3-69, Cl. 165-42.
Hughes, Cecil, to Orbital Engineering Limited. Pumps. 3,424,096, 1-28-69, Cl. 103-151.
Hughes, Charles T.: *See*—
Hecht, James Lee; and Hughes, Charles T.,3,464,963.
Hughes, Daniel C., Jr., to Precision Systems Company, Inc. Squeegee assembly for screen process printers of micro-circuits and components thereof. 3,483,819, 12-16-69, Cl. 101-123.
Hughes, Darrel W.: *See*—
Vautrain, Lucien H.; and Hughes, Darrel W.,3,474,027.

Hughes, David A., to Western Electric Company, Incorporated. Cable seam soldering apparatus. 3,462,574, 8-19-69, Cl. 219-9.5
Hughes, David Owen: *See—*
Davies, Phineas; and Hughes, David Owen,3,432,443.
Hughes, David R.: *See—*
Gibson, Robert G.; Hughes, David R.; and Leavenworth, Richard L.,3,434,117.
Hughes, Francis A., to Atlas Chemical Industries, Inc. Method of preventing blocking of aluminum sheet material. 3,468,701, 9-23-69, Cl. 117-134.
Hughes, George Leslie, to Aktiebolaget Electrolux. End closure for disposable dust bag. 3,423,907, 1-28-69, Cl. 55-367.
Hughes, George W. Road surface testing device. 3,431,776, 3-11-69, Cl. 73-146.
Hughes, Gordon A.; and Smith, Herchel, to American Home Products Corporation. Dithioketals of Δ-4,9-3-ketosteroids. 3,479,435, 11-18-69, Cl. 424-241.
Hughes, Gordon A.: *See—*
Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel,3,462,459.
Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel,3,467,676.
Hughes, Gordon Alan; and Smith, Herchel, said Hughes assor. to said Smith. Preparation of 13-alkylgona-1,3,5(10),8,14- pentaenes. 3,442,920, 5-6-69, Cl. 260-397.45
Hughes, Gordon Alan; and Smith, Herchel, to American Home Products Corporation. 8,14-Secogona-1,3,5(10),6,8-pentaen-14-ones. 3,459,778, 8-5-69, Cl. 260-397.45
Hughes, Gordon Alan; and Smith, Herchel. Synthesis of gonane derivatives. 3,467,652, 9-16-69, Cl. 260-239.55
Hughes, Gordon Alan; and Smith, Herchel. Synthesis of gona-3,5-dienes. 3,471,531, 10-7-69, Cl. 260-397.5
Hughes, Gordon Alan; and Smith, Herchel. Preparation of 13-alkylgona-1,3,5(10),8,14- pentaenes. 3,478,106, 11-11-69, Cl. 260-590.
Hughes, Gordon Alan; and Smith, Herchel. 13β-Alkyl-6-oxagonanes. 3,479,344, 11-18-69, Cl. 260-240.
Hughes, Gordon Alan; Smith, Herchel; and Hartley, David, to Smith, Herchel. D-homo-gona-4,9-dienes and process. 3,458,579, 7-29-69, Cl. 260-586.
Tokolics, Joseph; Hughes, Gordon A.; and Smith, Herchel,3,483,185.
Hughes, Graham Keith, to Ashland Oil & Refining Company. Borate N-oxides derived from borate esters of amino secondary alkanols. 3,465,026, 9-2-69, Cl. 260-462.
Hughes, James Alva. Monorail assembly. 3,481,280, 12-2-69, Cl. 104-118.
Hughes, James C.; and De Palma, Ted V., to Universal Oil Products Company. Catalytic ignition sustaining apparatus in an Otto cycle engine. 3,481,317, 12-2-69, Cl. 123-143.
Hughes, James C.: *See—*
Rosenwald, Robert H.; Stedman, Russell F.; and Hughes, James C.,3,425,815.
Hughes, James L.: *See—*
Fisher, William F.; Hughes, James L.; and McCarthy, Thomas F.,3,465,829.
Hughes, John F., Jr.; and Leisle, Thomas M. Method and apparatus for the treatment of liquids and liquid borne minerals and gases. 3,458,415, 7-29-69, Cl. 204-149.
Hughes, John H. Shake-sawing machine. 3,480,050, 11-25-69, Cl. 143-26.
Hughes, John J.: *See—*
Sedgwick, Robert K.; and Hughes, John J.,3,468,179.
Hughes, John K. Building wall sections approximating a predetermined curvature and method of making the same. 3,461,635, 8-19-69, Cl. 52-645.
Hughes, John L.: *See—*
Marcus, Erich; and Hughes, John L.,3,483,231.
Hughes, John M., to General Electric Company. Fluidic control system. 3,443,575, 5-13-69, Cl. 137-81.5
Hughes, John V., to United Aircraft Corporation. Precise time control for a star angle sensor. 3,430,049, 2-25-69, Cl. 250-203.
Hughes, Joseph V., Jr.; and Squier, Charles A., to Owens-Illinois, Inc. Method of installing high temperature furnace insulation. 3,428,716, 2-18-69, Cl. 263-52.
Hughes, Leonard A., to Nuclear-Chicago Corporation, mesne. Colorimeter using interchangeable meters. 3,441,352, 4-29-69, Cl. 356-189.
Hughes, Leonard A., to Electronic Instrument Co. Test kit. 3,449,081, 6-10-69, Cl. 23-253.
Hughes, Mack F.: *See—*
Lavigne, Joe B.; and Hughes, Mack F.,3,422,161.
Lavigne, Joe B.; and Hughes, Mack F.,3,470,097.
Hughes, Martin Robert: *See—*
Rosendall, Henry J.; Hughes, Martin Robert; and Yonkers, Robert A.,3,484,171.
Hughes, Milton L. Blind shims for pre-fit door units. 3,440,783, 4-29-69, Cl. 52-213.
Hughes, Paul R.; and Lord, Thomas J., to United Aircraft Products, Inc. Heat transfer system controls. 3,456,685, 7-22-69, Cl. 137-565.
Hughes, Ralph C.; and Every, Richard L., to Continental Oil Company. Method for transporting potash through a pipeline in slurry form. 3,456,987, 7-22-69, Cl. 302-66.
Hughes, Ray C.: *See—*
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C.,3,432,913.
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C.,3,464,725.
Hughes, Ray C.; and Mavrodineanu, Radu, to North American Philips Company, Inc. Spectrographic analysis. 3,424,533, 1-28-69, Cl. 356-85.
Hughes, Ray C.; and Mavrodineanu, Radu, to U.S. Philips Corporation, mesne. Multi-channel atomic absorption spectrometer. 3,472,594, 10-14-69, Cl. 356-93.
Hughes, Raymond K.: *See—*
Coverstone, Stephen L.; and Hughes, Raymond K.,3,473,724.
Hughes, Richard G. Silk-screening frame. 3,485,165, 12-23-69, Cl. 101-127.1
Hughes, Richard Lawrence: *See—*
Kuhr, Wayne Kenneth; Slakis, Albin Joseph; Hughes, Richard Lawrence; and Neilson, Anne Josephine,3,432,305.
Hughes, Richard Smith, to United States of America, Navy. One-shot circuit with short retrigger time. 3,453,453, 7-1-69, Cl. 307-273.
Hughes, Richard Smith, to United States of America, Navy. Gated filter and sample hold circuit. 3,471,719, 10-7-69, Cl. 307-293.
Hughes, Richard Smith, to United States of America, Navy. Temperature stable D.C. inverter. 3,473,134, 10-14-69, Cl. 330-17.
Hughes, Richard Smith; and McCall, Charles E. Pulse repetition frequency to direct current converter. 3,461,392, 8-12-69, Cl. 329-104.
Hughes, Richard S., to United States of America, Navy. Variable reference video amplifier. 3,473,135, 10-14-69, Cl. 330-24.
Hughes, Richard S., to United States of America, Navy. Circuit for varying the hysteresis of a Schmitt trigger. 3,474,264, 10-21-69, Cl. 307-290.
Hughes, Robert H.: *See—*
Brock, James A.; Hughes, Robert H.; and Downs, Edgar S.,3,462,133.
Hughes, Robert W.; and Coyne, Francis P., to Ingersoll-Rand Company. Crawler mounted rock drill. 3,478,832, 11-18-69, Cl. 180-9.6
Hughes, Roland L.: *See—*
Best, William V.; and Hughes, Roland L.,3,423,324.
Best, William V.; and Hughes, Roland L.,3,459,673.
Best, William V.; Hughes, Roland L.; and Austin, Lewis M.,3,440,092.
Hughes, Terence O.Child's chamber pot. 3,428,967, 2-25-69, Cl. 4-142.
Hughes, Thomas Henry: *See—*
McLean, John Walford; and Hughes, Thomas Henry,3,464,837.
Hughes Tool Company: *See—*
Galle, Edward M.; and Woods, Henry B., 3,441,094.
Galle, Edward M., 3,467,448.
Galle, Edward M., 3,476,195.
McElya, Fred H.; and Cunningham, Robert A., 3,442,342.
Millsapps, Stuart C., Jr., 3,460,638.
Roll, Jack A.; and Adams, Cecil E., 3,426,856.
Williamson, Thomas N., 3,442,339.
Hughes, Walton: *See—*
Chalenski, Arthur A., Jr.; and Hughes, Walton,3,460,591.
Hughes, Walton, to General Motors Corporation. Fluid filling method and apparatus. 3,425,464, 2-4-69, Cl. 141-7.
Hughes, Walton, to General Motors Corporation. Liquid leveling method and apparatus. 3,430,667, 3-4-69, Cl. 141-1.
Hughes, Wayne E., to Westinghouse Electric Corporation. Wide bandwidth millimeter maser. 3,440,549, 4-22-69, Cl. 330-4.
Hughes, William C., to General Electric Company. Electron gun. 3,436,583, 4-1-69, Cl. 313-82.
Hughes, William C.; and Kunz, Raymond W., to General Electric Company. Treatment assembly seal. 3,453,642, 7-1-69, Cl. 346-17.
Hughes, William C.; and Peroutky, Donald C., to General Electric Company. Electron emission source with sharply defined emitting area. 3,436,584, 4-1-69, Cl. 313-346.
Hughes, William E.: *See—*
Overton, Dolphin D., III; Hughes, William E.; and Rustin, Rudolph B., Jr.,3,485,350.
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E.,3,439,862.
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E.,3,481,457.
Rustin, Rudolph B., Jr.; Overton, Dolphin D., III; and Hughes, William E.,3,472,363.
Hughes, William G.; Weiss, Samuel; and Lambiris, John, to Tenneco Chemicals, Inc. Process for the production of paraformaldehyde. 3,446,854, 5-27-69, Cl. 260-615.5
Hughes, William Lewis; Summers, Claude Menta; and Allison, Hansell Jack, to Oklahoma State University of Agriculture & Applied Science. Device for the direct conversion of thermal dynamic free

energy in fuel gases to electrical energy. 3,477,878, 11-11-69, Cl. 136-86.
Hughes, William L.; and Brauser, Stanley O., to Oklahoma State University of Agriculture & Applied Science. Energy storage system. 3,459,953, 8-5-69, Cl. 290-2.
Hughes, William L.; Summers, Claude M.; and Allison, Hansell Jack, to Oklahoma State University of Agriculture & Applied Science. Fuel cell. 3,424,620, 1-28-69, Cl. 136-86.
Hughey & Phillips, Inc.: *See—*
Charney, John F., 3,457,558.
Hughey, John E., to Brown Engineering Company. Article handling device. 3,484,004, 12-16-69, Cl. 214-130.
Hughson, Douglas, to Ford Motor Company. Differential lock and axle brake. 3,439,785, 4-22-69, Cl. 192-4.
Hughson, Douglas, to Ford Motor Company. Double mesh, cross axis gearing. 3,452,620, 7-1-69, Cl. 74-713.
Hughson, J. Donald; and Schwab, Carl E., to General Signal Corporation. Non-synchronous radio communication system and method. 3,482,046, 12-2-69, Cl. 179-15.
Hugi, Litty, to Aktiengesellschaft Brown, Boveri & Cie. Electrical device with a fluid insulating medium. 3,467,760, 9-16-69, Cl. 174-17.
Hugle, Frances: *See—*
Hugle, Frances, 3,440,027.
Hugle, Frances, 3,481,801.
Hugle, Frances, as trustee of Frances Hugle Trust: *See—*
Hugle, Frances; and Perrine, William, 3,465,874.
Hugle, Frances B., deceased0 (by Hugle, William B.; executor), to Hugle Industries, Inc. Sequencing mechanism electronic logic. 3,484,621, 12-16-69, Cl. 307-141.
Hugle, Frances B., deceased; and Hugle, William B.; executor. Self compensating structure for limiting base drive current in transistors. 3,465,213, 9-2-69, Cl. 317-235.
Hugle, Frances, Trust: *See—*
Hugle, Frances, 3,481,801.
Hugle, Frances, trustee of Hugle, Frances, Trust: *See—*
Hugle, Frances, 3,465,150.
Hugle, Frances, to Hugle, Frances. Automated packaging of semiconductors. 3,440,027, 4-22-69, Cl. 29-193.5
Hugle, Frances, to Hugle, Frances, trustee of Hugle, Frances, Trust. Method of aligning semiconductors. 3,465,150, 9-2-69, Cl. 250-83.3
Hugle, Frances, to Hugle, Frances, as trustee of Hugle, Frances, Trust. Isolation technique for integrated circuits. 3,481,801, 12-2-69, Cl. 148-175.
Hugle, Frances; and Perrine, William, said Hugle assor. to Hugle, Frances, as trustee of Frances Hugle Trust. Carrier for semiconductor devices. 3,465,874, 9-9-69, Cl. 206-56.
Hugle Industries, Inc.: *See—*
Hugle, Frances B., 3,484,621.
Hugle, William B.: *See—*
Hugle, Frances B.,3,484,621.
Hugle, Frances B., deceased; and Hugle, William B.; executor,3,465,213.
Hugli, Gottfried, to Lonza Ltd. Mixing device. 3,460,811, 8-12-69, Cl. 259-97.
Hugon, Pierre: *See—*
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude,3,429,922.
Huguenin, Rene: *See—*
Boissonnas, Roger; and Huguenin, Rene,3,454,549.
Hugues, Edgard: *See—*
Bougon, Michel; Hugues, Edgard; and Poivilliers, Jean,3,485,547.
Hugues, Edgard. Wide angle short photographic objectives. 3,468,600, 9-23-69, Cl. 350-189.
Huguet, Juan Luis, to Celanese Corporation. Oxidation of olefins with tellurium compounds. 3,479,395, 11-18-69, Cl. 260-497.
Huguier, Philippe: *See—*
Ernyei, Herbert; and Huguier, Philippe,3,430,206.
Hugus, James G., to Closures, Inc. Flexible closure tensioning device. 3,460,602, 8-12-69, Cl. 160-265.
Huhndorf-Richter, Bernhard; Von Der Decken, Claus-Benedikt; and Ohlig, Heinz, to Brown Boveri/Krupp Reaktorbau G.m.b.H. Sorting apparatus for spherical bodies. 3,439,804, 4-22-69, Cl. 209-86.
Huhta-Koivisto, Esko Ensio, to Mervoimien Esikunta. Electric unipolar motor. 3,469,137, 9-23-69, Cl. 310-227.
Hui, William L. C.; and Auth, George R., to RCA Corporation. Integrated array of thin-film photovoltaic cells and method of making same. 3,483,038, 12-9-69, Cl. 136-89.
Huibers, Bernardus Hubertus: *See—*
Hectors, Adrianus Marie Petrus; Huibers, Bernardus Hubertus; and Knoester, Carel Jacobus,3,442,652.
Hendrickx, Andreas Joseph Johannes; and Huibers, Bernardus Hubertus,3,442,650.
Hendrickx, Andreas Joseph Johannes; and Huibers, Bernardus Hubertus,3,442,651.
Huibers, Derk Th. A., to Lummus Company, The. Process for the production of acrylonitrile or methacrylonitrile. 3,478,082, 11-11-69, Cl. 260-465.3
Huibers, Derk Th. A., to Lummus Company, The. Process for the production of aromatic nitriles. 3,479,385, 11-18-69, Cl. 260-465.
Huis, John: *See—*
McCarty, Theodore M.; and Huis, John,3,457,821.
Huisman, Hendrikus Obias: *See—*
Claassen, Volkert; Huisman, Hendrikus Obias; and Mos, Gerardus Henricus Maria,3,472,938.
Huitt, Jimmie L., to Gulf Research & Development Company. Method of fracturing and enlarging the fracture with acid. 3,455,388, 7-15-69, Cl. 166-292.
Huizenga, Charles B.: *See—*
Toney, Henry W.; and Huizenga, Charles B.,3,422,711.
Huizinga, Donald D.; and Prince, Terry B., to Bell Telephone Laboratories, Incorporated. Telephone repertory dialer. 3,456,085, 7-15-69, Cl. 179-90.
Hujimori, Tosio: *See—*
Suzuki, Hiroshi; Hujimori, Tosio; and Ida, Saburo,3,474,611.
Hujita, Minoru: *See—*
Ono, Minoru; Hujita, Minoru; Momoi, Toshimitu; and Homma, Isamu,3,474,310.
Hujsak, Karol L., to Pan American Petroleum Corporation. Recovery of oil by flashing of heated connate water. 3,481,399, 12-2-69, Cl. 166-251.
Hukin, Arthur Shepherd, to Blackwell, F. C., and Company Limited, mesne. Wiring section for an electrical wiring system. 3,461,220, 8-12-69, Cl. 174-48.
Hukin, Arthur Shepherd, to Blackwell, F. C., and Company Limited, mesne. Electrical wiring systems. 3,464,052, 8-26-69, Cl. 339-22.
Hukki, Risto Tapani, to Outokumpu Oy. Process and apparatus for froth flotation. 3,428,175, 2-18-69, Cl. 209-164.
Hukki, Risto Tapani, to Tyler, W. S., Incorporated. Method and apparatus for sizing of discrete particles in a fluid medium. 3,455,450, 7-15-69, Cl. 209-144.
Hukunaga, Masao: *See—*
Aoki, Setsuo; Shono, Setsuo; Ito, Ryoji; Arao, Yuzuru; and Hukunaga, Masao,3,458,175.
Hulbert, Clarence E., Jr., to Capvac Industries, Inc. Cylinder treater apparatus. 3,477,178, 11-11-69, Cl. 51-8.
Huld, Torben: *See—*
Petersen, Povl Viggo; Lassen, Niels; Norgaard, Jette; and Huld, Torben,3,467,675.
Hulen, Claude K., to American Photocopy Equipment Company. Plate cylinder with retractable register pins. 3,456,587, 7-22-69, Cl. 101-415.1
Hulen, Claude K., to American Photocopy Equipment Company. Apparatus for article registration. 3,470,619, 10-7-69, Cl. 33-184.5
Huley, William G., to Dole Valve Company, The. Flow adjustment valve. 3,446,246, 5-27-69, Cl. 137-625.5
Huley, William G.; Erickson, Howard L.; and Hanna, John W., to Dole Valve Company, The. Adjustable rate valve assembly. 3,429,552, 2-25-69, Cl. 251-129.
Hulick, Warren E.: *See—*
Kalish, Robert L.; Kanyok, Anthony J.; Hulick, Warren E.; and Hamer, Edward A. G.,3,421,782.
Huliew, Andrei. Fishing line control apparatus. 3,451,155, 6-24-69, Cl. 43-15.
Hulin, Bonnie R. Working environment control apparatus. 3,451,505, 6-24-69, Cl. 182-129.
Huling, James K., to Clayton Corporation. Sanitary valve and nozzle assembly for pressure dispensers. 3,447,779, 6-3-69, Cl. 251-303.
Huling, James K.; Gross, Jerome A.; and Hug, Richard C., to Clayton Corporation. Valve for proportioned co-dispensing of two fluids. 3,462,047, 8-19-69, Cl. 222-402.23
Hulka, Lubor Rene; and Hynes, Frederick Margarson Bisgrove. Mail sorting letter diverter. 3,430,951, 3-4-69, Cl. 271-64.
Hull, Charles Hartley; and Horsfall, Harry, to Brown, David, Tractors (Canada) Limited. Tractor hydraulic power lift mechanism. 3,456,736, 7-22-69, Cl. 172-9.
Hull, Charles J.: *See—*
Osborne, Fred H.; and Hull, Charles J.,3,421,941.
Hull, Charles W., to Bell & Howell Company, mesne. Mass spectrometer control system utilizing auxiliary mass spectrometer as a reference standard. 3,479,504, 11-18-69, Cl. 250-41.9
Hull Corporation: *See—*
Costello, Leonard C.; and Wiegmann, Karl H., 3,461,953.
Hull, John L.; Dovey, Kenneth D.; La Rose, William T., Sr.; and Trembley, John R., 3,473,196.
Hull, Daniel M.: *See—*
Abegg, Moroni Taylor; Hull, Daniel M.; and Leslie, William B.,3,453,558.
Hull, Donald Robert; and Piccard, John Augustus, to Du Pont de Nemours, E. I., and Company. Self-healing reinforced concrete structures and process for the preparation thereof. 3,466,822, 9-16-69, Cl. 52-223.
Hull, Ezekiel H., to Pfizer, Chas., & Co., Inc. Synthesis of monoesters of itaconic acid. 3,484,478, 12-16-69, Cl. 260-485.
Hull, Glenn A.; Allen, Earle E., Jr.; and Parmerter, Stanley M., to Corn Products Company. Cyclodextrin carbamates. 3,459,732, 8-5-69, Cl. 260-209.

Hull, Glenn A.: *See—*
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A.,3,426,011.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A.,3,453,257.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A.,3,453,258.
Hull, Harris B. Police alarm. 3,440,635, 4-22-69, Cl. 340-277.
Hull, Henry E.; Trumbull, Harold E.; and Zeidman, Gordon G., to Xerox Corporation. Fusing apparatus. 3,432,639, 3-11-69, Cl. 219-216.
Hull, James W.: *See—*
Muenchinger, William O.; and Hull, James W.,3,471,312.
Hull, James W.; and Penn, Howard, to Morton International, Inc. Curing vinyl material using rhodamine as a cure indicator. 3,445,656, 5-20-69, Cl. 250-71.
Hull, John L.; Dovey, Kenneth D.; La Rose, William T., Sr.; and Trembley, John R., 50% to Hull Corporation, and 50% to La Rose, W. T., and Associates, Inc. Apparatus for the transfer and injection molding of synthetic thermosetting and thermoplastic resins. 3,473,196, 10-21-69, Cl. 18-30.
Hull, John W.; and Raymond, Eugene T. Fluid sealing arrangements. 3,455,566, 7-15-69, Cl. 277-176.
Hull, Joseph F., to Litton Precision Products, Inc. Microwave tuner having a rapid tuning rate. 3,478,247, 11-11-69, Cl. 315-39.55
Hull, Maurice E.; and Kline, Ralph Willard, to Armour and Company. Production of a sweet cream buttermilk from lipolyzed cream. 3,477,853, 11-11-69, Cl. 99-63.
Hull, Milton E., to Dymo Industries, Inc. Cargo container hinge construction. 3,479,683, 11-25-69, Cl. 16-128.
Hull, R. Dell. Spinning reel brake. 3,469,799, 9-30-69, Cl. 242-84.2
Hull, R. Dell. Closed face spinning reel housing. 3,473,753, 10-21-69, Cl. 242-84.2
Hull, R. Dell. Line guide for closed face spinning reel. 3,474,984, 10-28-69, Cl. 242-84.2
Hull, R. Dell. Spinning reel. 3,481,554, 12-2-69, Cl. 242-84.2
Hull, Robert E., to Westinghouse Electric Corporation. Voltage adjustable limiter for operational elements. 3,437,836, 4-8-69, Cl. 307-237.
Hull, Robert E., to Westinghouse Electric Corporation. Adjustable amplitude limiter circuit. 3,437,837, 4-8-69, Cl. 307-237.
Hull, Robert E.; and Stringer, Loren F., to Westinghouse Electric Corporation. Gate pulse generator. 3,440,447, 4-22-69, Cl. 307-261.
Hull, Wilson E., to United States of America, Navy. Mass release mechanism for satellites. 3,424,403, 1-28-69, Cl. 244-1.
Hulland, Burton L., to Dynell Electronics Corporation. Method and apparatus for measuring signal to noise ratio. 3,475,683, 10-28-69, Cl. 324-140.
Huller, Adolf; Gundlich, Heinz; and Merker, Joachim, to Huller, Karl GmbH. Tool holder changer. 3,443,309, 5-13-69, Cl. 29-568.
Huller, Karl GmbH: *See—*
Huller, Adolf; Gundlich, Heinz; and Merker, Joachim, 3,443,309.
Krempel, Fritz; and Stoferle, Theodor, 3,478,859.
Hullhorst, William B., to Owens-Corning Fiberglas Corporation. Method and apparatus for producing tubular fibrous bodies. 3,479,239, 11-18-69, Cl. 156-184.
Hullhorst, William B.: *See—*
Dunbar, Sidney G.; and Hullhorst, William B.,3,458,966.
Hullot, Maxime: *See—*
Latrubesse, Andre; Hullot, Maxime; and Govaerts, Gerard,3,448,416.
Hullot, Pierre, to Cellophane Investment Co., Ltd. Thermosealable coating composition containing an organic acid treated vegetable oil. 3,483,022, 12-9-69, Cl. 117-122.
Hulme, Jack R.: *See—*
Clement, Larry C.; Hammand, Jack; Hulme, Jack R.; and Zimmerman, Carl W.,3,425,274.
Hulse, Michael Anthony, to Lucas, Joseph, (Industries) Limited. Method of and device for filling the cells of a battery with electrolyte. 3,483,042, 12-9-69, Cl. 136-162.
Hulse, Robert E.; and Cervini, John J., to National Distillers and Chemical Corporation. Polyolefin fibers. 3,454,519, 7-8-69, Cl. 260-32.6
Hulse, Stewart H.: *See—*
Welty, Albert B., Jr.; and Hulse, Stewart H.,3,451,923.
Hulseberg, Paul J.: *See—*
Tracy, James T.; Hulseberg, Paul J.; and Sadler, James E.,3,422,607.
Hulsey, Eldon E. Variable area orifice, rotary control valve. 3,443,793, 5-13-69, Cl. 251-209.
Hulsing, Kenneth L., to General Motors Corporation. Floating crown piston. 3,448,664, 6-10-69, Cl. 92-157.
Hulslander, Gary L., to Acme-Cleveland Corporation, mesne. Automatic core discharge core blower. 3,482,619, 12-9-69, Cl. 164-183.
Hulsmann, Hans-Leo; and Renckhoff, Gustav, to Chemische Werke Witten GmbH. Process for the preparation of pure aryl esters of di- and polycarboxylic acids. 3,471,549, 10-7-69, Cl. 260-475.
Hultberg, Donald E., to Northrop Corporation. Electron beam scanner utilizing labyrinth structure. 3,421,042, 1-7-69, Cl. 315-12.
Hulten, Richard E., to General Motors Corporation. Transmission shift control. 3,449,980, 6-17-69, Cl. 74-473.
Hulten, Richard E., to General Motors Corporation. Minimum lash, anti-rattle connection. 3,472,541, 10-14-69, Cl. 287-93.
Hulterstrum, Harold D., to Flambeau Plastics Corporation. Swivel joint structure. 3,433,510, 3-18-69, Cl. 287-12.
Hultgren, Ake Valdemar, to Aktiebolaget Atomenergi. Process for the recovery of metal values by selective fixing in an aqueous phase. 3,458,290, 7-29-69, Cl. 23-337.
Hultgren, Arnold P.: *See—*
Becker, Robert; and Hultgren, Arnold P.,3,438,591.
Hultgren, Arnold P., to Amerline Corporation. Hub and reel construction. 3,485,457, 12-23-69, Cl. 242-71.8
Hultgren, William Herbert, to Champion Laboratories, Inc. Oil filter unit. 3,473,664, 10-21-69, Cl. 210-130.
Hults, Harold W., to Cutler-Hammer, Inc. Combined seal and insulator for an electric switch. 3,483,345, 12-9-69, Cl. 200-168.
Hulverson, Adrian F., to Fruehauf Corporation. Trailer construction. 3,425,710, 2-4-69, Cl. 280-81.
Hulverson, Adrian F.; Harper, John W.; and Saxton, Floyd G., to Fruehauf Corporation. Door gasket. 3,456,390, 7-22-69, Cl. 49-489.
Hulverson, Adrian F.: *See—*
Tantlinger, Keith W.; and Hulverson, Adrian F.,3,456,967.
Tantlinger, Keith W.; Chieger, George; and Hulverson, Adrian F.,3,434,751.
Huly, William: *See—*
Durno, Ronald A.; and Huly, William,3,438,596.
Human, George James: *See—*
Sidebotham, Eric; and Human, George James,3,440,972.
Human Resources Foundation: *See—*
Krobath, Hans, 3,424,977.
Humber, Leslie G., to American Home Products Corporation. Dibenzocyclooctadiene compounds. 3,472,869, 10-14-69, Cl. 260-326.5
Humber, Leslie G., to American Home Products Corporation. Thiazolo and thiazino polycyclic isoquinolines. 3,476,750, 11-4-69, Cl. 260-243.
Humber, Leslie G.: *See—*
Georgiadis, Minas P.; and Humber, Leslie G.,3,455,933.
Humber Limited: *See—*
Harper, Stephen James, 3,424,025.
Lewis, John; and Lissaman, Brian Thomas, 3,450,240.
Ludford, Peter, 3,432,142.
Humbert, Kingsley E., Jr., to Wix Corporation. Filter structure with alternative inlet and outlet housing openings. 3,456,800, 7-22-69, Cl. 210-130.
Humbert, Kingsley E., Jr., to Wix Corporation. Throwaway filter construction. 3,473,666, 10-21-69, Cl. 210-232.
Humbert, Kingsley E., Jr.; Hough, Lewis M., Jr.; and Francois, Paul L., to Wix Corporation. Multi-density screw-on throw away type filter. 3,467,256, 9-16-69, Cl. 210-132.
Humbert, Kingsley E., Jr.; and Rush, James A., to Wix Corporation. Filter structure. 3,469,707, 9-30-69, Cl. 210-484.
Humbert, Kingsley E., Jr.: *See—*
Young, Ralph L.; and Humbert, Kingsley E., Jr.,3,458,977.
Humble Oil & Refining Company: *See—*
Walker, David G., 3,467,725.
Hume, Harold F., to Du Pont de Nemours, E. I., and Company. Crimped multifilament yarn. 3,423,923, 1-28-69, Cl. 57-140.
Hume, Harold Frederick, to Du Pont de Nemours, E. I., and Company. Insert type spinneret. 3,453,689, 7-8-69, Cl. 18-8.
Hume, Horace D., to Hart-Carter Company. Resilient trailer mount. 3,434,733, 3-25-69, Cl. 280-104.5
Hume, James N., Jr. High strength resin system and methods of making and applying the same. 3,471,437, 10-7-69, Cl. 260-40.
Humes, Karl R., to Westinghouse Electric Corporation. Insulated cable. 3,422,215, 1-14-69, Cl. 174-120.
Huml, James O.: *See—*
Layne, Gilbert S.; and Huml, James O.,3,438,731.
Huml, James O.; and Layne, Gilbert S., to Dow Chemical Company, The. Process for preparing metal fluoride single crystals. 3,477,812, 11-11-69, Cl. 23-88.
Hummel, Floyd A.; Sarver, James F.; and Kreidler, Eric R., to General Electric Company. Luminescent materials of zinc magnesium germanate activated with manganese. 3,458,452, 7-29-69, Cl. 252-301.6
Hummel, Harry J., to Motorola, Inc. Pulse counter detector. 3,473,133, 10-14-69, Cl. 329-126.
Hummel, Matt N., to Acra Electric Corporation. Electric heater assembly. 3,453,417, 7-1-69, Cl. 219-536.
Hummel, Raymond J.; and Ruhl, Horst, to H & H Plastics Mfg. Co. Method of making a cap. 3,431,561, 3-11-69, Cl. 2-192.
Hummel, Richard L. Production of sulphuric acid. 3,475,119, 10-28-69, Cl. 23-168.
Hummelshoj, Gustav E., 50% to Schmidt, Thomas. Concrete mixing machine. 3,456,926, 7-22-69, Cl. 259-178.

Hummelshoj, Gustav E., 50% to Schmidt, Thomas. Plant for manufacturing large slab-shaped constructional elements. 3,465,396, 9-9-69, Cl. 25-2.
Hummer, Julius, to Fansteel Inc. WC-CrC-Co sintered composite. 3,480,410, 11-25-69, Cl. 29-182.7
Humostan Corporation, The: *See—*
McHugh, John P., 3,467,061.
Humpherson, Donald, to Imperial Metal Industries (Kynoch) Limited. Cartridge cases. 3,424,089, 1-28-69, Cl. 102-43.
Humphress, Joseph G.; and Zeunik, Robert L., to Union Carbide Corporation. Method of making vacuum containers. 3,438,115, 4-15-69, Cl. 29-421.
Humphrey & Glasgow Limited: *See—*
Hobbs, Arthur Frederick, 3,463,468.
Humphrey, David H. Adjustable catch. 3,433,517, 3-18-69, Cl. 292-74.
Humphrey, Dean E., to Pennwalt Corporation. Screen centrifuge apparatus. 3,483,991, 12-16-69, Cl. 210-377.
Humphrey, Frederick Harold. Elastomeric pump and check-valve. 3,486,663, 12-30-69, Cl. 222-207.
Humphrey, Laurence E., to Union Carbide Corporation. Method and apparatus for localizing overload failure in alkali metal conductors. 3,452,146, 6-24-69, Cl. 174-11.
Humphrey, Loren K.; Dunning, Robert A.; and Layman, Curtis A., to Dow Chemical Company, The. Apparatus for dusting of surfaces. 3,423,040, 1-21-69, Cl. 242-67.3
Humphrey, Richard A.: *See—*
Eakins, William J.; and Humphrey, Richard A.,3,425,454.
Humphrey, Ronald L.: *See—*
Dexter, Edwin M.; and Humphrey, Ronald L.,3,428,067.
Humphrey, William E., to Optical Research and Development Corporation. Optical stabilization with roof mirror. 3,437,396, 4-8-69, Cl. 350-16.
Humphrey, William E., to Optical Research and Development Corporation. Double-mirror system for optical stabilization. 3,437,397, 4-8-69, Cl. 350-16.
Humphrey, William E., to Optical Research and Development Corporation. Optical stabilization by reflecting means. 3,468,595, 9-23-69, Cl. 350-16.
Humphrey, William E., to Optical Research and Development Corporation. Accidental-motion compensation for optical devices. 3,473,861, 10-21-69, Cl. 350-16.
Humphrey, William E., to Optical Research and Development Corporation. Accidental-motion compensation by triple reflection. 3,475,073, 10-28-69, Cl. 350-16.
Humphrey, William E., to Optical Research and Development Corporation. Accidental-motion compensation with collimated light. 3,475,074, 10-28-69, Cl. 350-16.
Humphrey, William E., to Optical Research and Development Corporation. Displaced image reflecting optical stabilized system. 3,479,108, 11-18-69, Cl. 350-16.
Humphreys & Glasgow Limited: *See—*
Sales, Peter Malcolm, 3,450,498.
Humphreys, Donald Robert, to USM Corporation. Axially shiftable control knobs. 3,447,385, 6-3-69, Cl. 74-10.5
Humphreys, Donald R., to USM Corporation. Fluid-rotated fluid distributors. 3,424,432, 1-28-69, Cl. 253-31.
Humphreys, Donald R., to USM Corporation. Torque reactive wave generators. 3,435,706, 4-1-69, Cl. 74-640.
Humphreys, Donald R., to USM Corporation. Knob assembly for typewriter platen or the like. 3,461,997, 8-19-69, Cl. 197-121.
Humphreys, Ellis, to Mississippi Glass Company. Method and apparatus for forming glass channels. 3,420,650, 1-7-69, Cl. 65-94.
Humphreys, Robert E. Fish bait and method of making the same. 3,421,899, 1-14-69, Cl. 99-3.
Humphreys, Robert E., to Angler Products, Inc. Method of and apparatus for the manufacture of fish bait. 3,437,488, 4-8-69, Cl. 99-3.
Humphreys, Terence Arthur George, to General Motors Corporation. Permanent magnet electric motors. 3,469,129, 9-23-69, Cl. 310-154.
Humphreys, Victor T.; and Bianco, Joseph, to American Aniline Products, Inc. Vat dye dispersions. 3,484,180, 12-16-69, Cl. 8-34.
Humphries, Clarence Raymond: *See—*
Randklev, Ronald M.; and Humphries, Clarence Raymond,3,476,584.
Humphries, Darral V.; and Lester, Raymond H., to Bethlehem Steel Corporation. Cold molding of nylon on can conveyor rope. 3,430,293, 3-4-69, Cl. 18-17.
Humphries, Ervin G., to Research Corporation. Harvester. 3,466,859, 9-16-69, Cl. 56-327.
Humphries, John R., Jr., to Gulf General Atomic Incorporated, mesne. Control rod and drive mechanism therefor. 3,445,334, 5-20-69, Cl. 176-36.
Humrick, Richard J.: *See—*
Griffin, Thomas A.; Humrick, Richard J.; and Hill, Edwin R.,3,442,007.
Hunck, Billie Gene: *See—*
Kress, James Henry; and Hunck, Billie Gene,3,481,419.
Hundley, George K., to Brown, Arthur R.,. Non-glare sealed beam headlights. 3,431,449, 3-4-69, Cl. 313-111.
Hundt, Archibald John, to Barr, Walter, Pty. Limited. Propagation device. 3,447,261, 6-3-69, Cl. 47-41.13
Hundt, Donald D.: *See—*
Cahill, Gerald F.; Avtges, James A.; and Hundt, Donald D.,3,444,281.
Hundt, Donald D.; and Kelly, Andrew J., to Grace, W. R., & Co. Meteorological balloon. 3,475,201, 10-28-69, Cl. 117-94.
Hune, Ronald G.; and Boehm, Robert F., to E-I-M Company Incorporated. Flutter check poppet valve. 3,470,904, 10-7-69, Cl. 137-493.2
Huner, James H., to Upjohn Company, The. Aiding the regression of acute leukemia with 1-beta- D-arabinofuranosylcytosine. 3,444,294, 5-13-69, Cl. 424-180.
Hung, Han-Min, to Forbro Design Corporation. Overvoltage protection device for regulated power supplies. 3,449,634, 6-10-69, Cl. 317-31.
Hung, Han-Min, to Forbro Design Corporation. Ambient and component temperature compensated voltage current regulator. 3,480,852, 11-25-69, Cl. 323-4.
Hungate, Ernest C. Apparatus for treating gas. 3,444,670, 5-20-69, Cl. 55-257.
Hungate, William. Valve disposing orifice cleaner in orifice as stem tip is compressed-seated. 3,446,234, 5-27-69, Cl. 137-244.
Hunger, Gunther K.: *See—*
Brundige, Maurice M.; Hunger, Gunther K.; and Kohne, Harry F., Jr.,3,441,473.
Fredrickson, John H.; Hunger, Gunther K.; and Kohne, Harry F., Jr.,3,451,331.
Hunger, Gunther K., to Westvaco Corporation. Apparatus for coating traveling webs. 3,486,482, 12-30-69, Cl. 118-603.
Hunger, Richard H.; Whiting, Charles L.; and Suojanen, Reino, to Beloit Corporation. Deep snow butt shear apparatus. 3,461,929, 8-19-69, Cl. 144-34.
Hunger, Robert Tweedy, to Colgate-Palmolive Company. Method of treating textile articles which are usually laundered. 3,468,697, 9-23-69, Cl. 117-66.
Hungerford, Joel C., to Sanders Associates, Inc. Pulse train selection and separation system. 3,484,704, 12-16-69, Cl. 328-139.
Hungerford, Max, to American Machine & Foundry Company. Hood and battery holder for tractor. 3,437,165, 4-8-69, Cl. 180-68.5
Hungerford, Max, to American Machine & Foundry Company. Transmission assembly for tractor. 3,447,399, 6-3-69, Cl. 74--769
Hungerford, Richard C.; and Brown, Frank E., to Barnes-Hind International, Inc. Lens washing machine. 3,444,868, 5-20-69, Cl. 134-143.
Huni, Hans. Tanning plant. 3,466,904, 9-16-69, Cl. 69-30.
Hunk, Billie Gene: *See—*
Nighswonger, Lester Leroy; Hunk, Billie Gene; and Malm, Donald Irwin,3,480,099.
Hunkar, Denes B. Automatic sample changer and measurer for radioactive materials with pulsating gas purging. 3,433,956, 3-18-69, Cl. 250-106.
Hunkel, Ludwig. Hopper with vibratory means for uniform rate of material delivery. 3,435,993, 4-1-69, Cl. 222-195.
Hunkeler, Edwin C.: *See—*
Thompson, William H.; and Hunkeler, Edwin C.,3,456,541.
Hunkins, Stanley H.; and Beresin, Peter W., to Ultronic Systems Corporation. Multiplex loop system. 3,483,329, 12-9-69, Cl. 179-15.
Hunley, Homer E., to TRW, Inc. DC voltage regulator utilizing phase controlled rectifying means. 3,435,322, 3-25-69, Cl. 321-18.
Hunnebeck Aktiengesellschaft: *See—*
Hunnebeck, Emil Mauritz, 3,431,694.
Hunnebeck, Emil Mauritz, to Hunnebeck Aktiengesellschaft. Rhombic girder. 3,431,694, 3-11-69, Cl. 52-695.
Hunnell, John W.: *See—*
Kinsey, Dale Norman; and Hunnell, John W.,3,481,960.
Hunnewell Soap Company, The: *See—*
Bacon, Oliver M., 3,446,742.
Hunnicutt, Cecil C., to Instrument Research, Inc. Hemostatic clamp. 3,454,009, 7-8-69, Cl. 128-322.
Hunsaker, Oral K.; Shue, Bruce R.; and Davis, Ralph C., to Dayton Malleable Iron Company, The. Malleable irons including tellurium and bismuth. 3,463,675, 8-26-69, Cl. 148-3.
Hunsaker, Vero L., to Universal Oil Products Company. Liquid dispensing system. 3,430,823, 3-4-69, Cl. 222-416.
Hunstiger, Francis: *See—*
Kolb, Edwin R.; Richardson, James I.; and Hunstiger, Francis,3,435,309.
Hunstiger, Francis, to Harris-Intertype Corporation. Electrophotographic apparatus. 3,450,473, 6-17-69, Cl. 355-4.
Hunsucker, William A. Anti-roll floating support. 3,437,064, 4-8-69, Cl. 114-0.5
Hunsucker, William A. Riser pipe assembly for offshore drilling operations. 3,454,116, 7-8-69, Cl. 175-7.
Hunt, Charles A., to North American Rockwell Corporation. Contact operating mechanism. 3,472,976, 10-14-69, Cl. 200-38.

Hunt, Charles F.: *See—*
Fitzhugh, Andrew F.; Hunt, Charles F.; and Lavin, Edward,3,462,513.
Hunt, Donald W. Artery compression clamp. 3,463,157, 8-26-69, Cl. 128-315.
Hunt Electronics Company: *See—*
Cain, Ernest O., 3,484,623.
Harris, John R., Jr., 3,436,562.
Hunt Foods and Industries, Inc.: *See—*
Reid, Edward J., 3,443,966.
Wolfe, Wayne F.; Miller, Alwin M.; and Miller, Roland, 3,442,401.
Hunt, Geoffrey Allen: *See—*
Howells, George Aneurin; and Hunt, Geoffrey Allen,3,421,148.
Hunt, George B. Spiral wound brushes. 3,464,077, 9-2-69, Cl. 15-182.
Hunt, George B., to Milwaukee Dustless Brush Company. Core structures for rotary brushes. 3,481,017, 12-2-69, Cl. 29-123.
Hunt, George H., to Simplex Wire and Cable Company. Voltage stabilized solid polyolefin dielectric. 3,445,394, 5-20-69, Cl. 252-66.
Hunt, Glenn H.; and Neiman, Howard H. Signaling attachment for fishing reels. 3,453,766, 7-8-69, Cl. 43-17.
Hunt, Graham R., to United States of America, Air Force. Method of enhancing small thermal differences in the presence of large thermal gradients. 3,487,215, 12-30-69, Cl. 250-83.3
Hunt, James L.: *See—*
Jones, Robert A.; and Hunt, James L.,3,461,721.
Hunt, Jerry D.: *See—*
Halasa, Adel F.; and Hunt, Jerry D.,3,474,052.
Hunt, John D.; and Jackson, Kenneth A., to Bell Telephone Laboratories, Incorporated. Transparent eutectics with lamellar microstructures and method of making same. 3,484,153, 12-16-69, Cl. 350-162.
Hunt, John Harold: *See—*
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold,3,452,013.
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold,3,466,281.
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold,3,466,282.
Gladych, Jan Mieczyslaw Zygmunt; and Hunt, John Harold,3,467,657.
Hunt, John M., to Singer-General Precision, Inc. Data conversion system. 3,469,253, 9-23-69, Cl. 340-347.
Hunt, Joseph M., to McDonnell Douglas Corporation. Means and method of wire identification. 3,474,559, 10-28-69, Cl. 40-316.
Hunt, Lloyd F. High voltage DC transmission system. 3,454,783, 7-8-69, Cl. 307-94.
Hunt, Mahlon S.; Tavenner, Michael S.; and Wirtanen, Theodore E., to United States of America, Air Force. Rotating drum scanner having scanning blocks on surface. 3,459,952, 8-5-69, Cl. 250-236.
Hunt, Oliver Larry, du Pont de Nemours, E. I., and Company. Hindered polymeric tertiary amines as stabilizers for polyurethanes. 3,428,711, 2-18-69, Cl. 260-859.
Hunt, Robert G., to Marco Products Company. Snap coupling. 3,449,003, 6-10-69, Cl. 287-119.
Hunt, Robert G., to Irwin, Lawrence F., and Irwin, Sally J., trust, d/b/a Marco Products Company. Grip handle chuck. 3,449,782, 6-17-69, Cl. 15-104.3
Hunt, Robert P., to Ampex Corporation. Magnetic storage medium for enhancing magneto- optic readout. 3,472,575, 10-14-69, Cl. 350-151.
Hunt, Robert William; Jones, Eric Lindsay; and Bonner, Peter, to International Standard Electric Corporation. Digital counting equipments. 3,420,988, 1-7-69, Cl. 235-92.
Hunt, Rodney Company: *See—*
Peter, Fritz, 3,430,466.
Rogers, Henry T., 3,469,755.
Hunt, Stuart Jackson, to National Automatic Tool Company, Inc. Automatic sizing of bores and the like. 3,456,396, 7-22-69, Cl. 51-165.
Hunt, Thomas J.: *See—*
Ing, David W.; and Hunt, Thomas J.,3,486,953.
Hunt, Tyler R., to Goodyear Aerospace Corporation. Method for magnetic core readout with noise cancellation. 3,432,836, 3-11-69, Cl. 340-174.
Hunt, Vernon B. Method of oyster culture and gear therefor. 3,455,278, 7-15-69, Cl. 119-4.
Hunt, Waldo H., to Graphics International, Inc. Folding puppet, marionette, or doll, head. 3,468,055, 9-23-69, Cl. 46-126.
Hunt-Pierce Corporation: *See—*
Rheinberger, Vincent P., 3,466,012.
Hunt-Wesson Foods, Inc.: *See—*
Brucks, Walter H., 3,421,451.
Mason, Stanley I., Jr., 3,434,635.
Huntec Limited: *See—*
Meyerhoff, Henry J., 3,421,141.
Hunter, Allen Bruce. Pulp screens. 3,420,373, 1-7-69, Cl. 209-273.
Hunter, Allen E. Mobile carrier having electric driving and steering motors. 3,438,456, 4-15-69, Cl. 180-104.
Hunter, Byron A., to Uniroyal, Inc. Di (higher secondary alkylated) hydroquinone antioxidants. 3,424,821, 1-28-69, Cl. 260-880.
Hunter, Byron A., to Uniroyal, Inc. Hydroxyl aryl esters of phosphorous acid. 3,467,735, 9-16-69, Cl. 260-953.
Hunter, Byron A., to Uniroyal, Inc.Vulcanization with p,p'-oxybis(thiophenol) and at least one activator selected from sulfur and an organic peroxide curative. 3,468,855, 9-23-69, Cl. 260-79.3
Hunter, Byron A., to Uniroyal, Inc. Protection of olefinic polymers. 3,477,987, 11-11-69, Cl. 260-45.85
Hunter, Colin Edward, to National Research Development Corporation. SCR type alternating current electric power control. 3,435,329, 3-25-69, Cl. 323-22.
Hunter, Daniel M.: *See—*
Lee, William S., 3,460,328.
Hunter, Darrell L.; and Siple, James C., to United States Steel Corporation. Method of controlling coating thickness. 3,459,587, 8-5-69, Cl. 117-102.
Hunter, Don L., to United States Borax & Chemical Corporation. 3-Alkyleneiminoquinazoline-4-imino-2-ones. 3,464,989, 9-2-69, Cl. 260-256.4
Hunter, Donald B., to Titanium Metals Corporation of America. Titanium base alloys of high strenght at atmospheric and elevated temperatures. 3,482,968, 12-9-69, Cl. 75-175.5
Hunter Douglas International Ltd.: *See—*
Blok, Dirk Evert, 3,453,794.
Hunter, Edward Allen; Knarr, Warren Alfred; and Byars, Gerald Albert, to Esso Research and Engineering Company. Process for cleaning olefin separation equipment. 3,423,323, 1-21-69, Cl. 252-153.
Hunter, Edward Allen: *See—*
Segura, Marnell Albin; and Hunter, Edward Allen,3,459,500.
Mayerle, Evan A.; and Hunter, Edward A.,3,458,410.
Hunter, Edwin James, to Toro Manufacturing Corporation. Sprinkler head. 3,468,484, 9-23-69, Cl. 239-204.
Hunter, Edwin J., to Toto Manufacturing Corporation. Sprinkler head having adjustable precipitation rate. 3,454,225, 7-8-69, Cl. 239-205.
Hunter, Elmer W.: *See—*
McQueen, Clifford H., 3,450,437.
Hunter Enterprises, Inc.: *See—*
Hunter, Warren S., 3,476,230.
Hunter, Henry Douglas; and Owen, Alfred Kennedy, to North American Philips Company, Inc. Adjustable couches. 3,428,307, 2-18-69, Cl. 269-322.
Hunter, Ian; and Fitzgerald, William Patrick, to Marconi Company Limited, The. Regulated direct current supply circuit with energy return path. 3,432,737, 3-11-69, Cl. 321-2.
Hunter, Irving Robert; and Walden, Mayo K., to United States of America, Agriculture. Bread-flavoring additive and use thereof. 3,425,840, 2-4-69, Cl. 99-91.
Hunter, John J.; and Fenner, Knolie L., Jr. Plastic-lined pipe and method of producing. 3,422,856, 1-21-69, Cl. 138-143.
Hunter, Keith Ellis, to General Descaling Company Limited. Pipe or vessel closure. 3,429,476, 2-25-69, Cl. 220-55.
Hunter, Lee. Vehicle wheel spinner assembly. 3,483,764, 12-16-69, Cl. 74-16.
Hunter, Matthew S., to Aluminum Company of America. Electrode. 3,475,289, 10-28-69, Cl. 204-33.
Hunter, Raymond E., to Western Concrete Structures Co., Inc. Post tensioning concrete anchor assembly. 3,437,359, 4-8-69, Cl. 287-20.3
Hunter, Robert D.; Keefer, David E.; and Wilhite, John E., to General Electric Company. Relocatable accumulator in a data processing system. 3,483,519, 12-9-69, Cl. 340-172.5
Hunter, Robert Tweedy: *See—*
Elkind, Vincent Theodore; Yurko, Joseph Aloyus; and Hunter, Robert Tweedy,3,476,583.
Hunter, Sally. Headpiece support. 3,464,603, 9-2-69, Cl. 223-66.
Hunter Structures, Inc.: *See—*
Baker, James W., 3,485,002.
Hunter, Thomas A.; Sherwood, Noble P.; Buske, Gilbert E.; and Guarino, Alexander J., to Textron, Inc. Fruit harvester. 3,459,269, 8-5-69, Cl. 173-170.
Hunter, Thomas C., Jr. Power responsive current regulator. 3,453,519, 7-1-69, Cl. 320-31.
Hunter, Travis L. Crimping tool. 3,477,272, 11-11-69, Cl. 72-445.
Hunter, Walker F.; and Mizma, Edward J., to Eastman Kodak Company. Extrusion coating apparatus. 3,479,989, 11-25-69, Cl. 118--608
Hunter, Warren S., to Hunter Enterprises, Inc. Paper roll carrier for use with typewriter carriage. 3,476,230, 11-4-69, Cl. 197-133.
Hunter, William B., to Ward Manufacturing, Inc. Camping vehicle with retractable console. 3,456,979, 7-22-69, Cl. 296-23.
Hunter, William B.: *See—*
Daniels, Lawrence E.; and Hunter, William B.,3,456,978.
Hunter, William Harold. Magic square board game apparatus. 3,445,115, 5-20-69, Cl. 273-135.

Hunter, William H.; and Kennedy, George J., to Max Factor & Co. Shear testing machine. 3,443,425, 5-13-69, Cl. 73-101.
Hunterdon Transformer Company: *See—*
Brock, Elwood M., 3,465,273.
Huntingdon Industries Incorporated: *See—*
Ullman, John E.; and Olejkowski, Stanley, 3,473,447.
Huntington, Andrew B.: *See—*
Abbott, Daniel B.; and Huntington, Andrew B.,3,473,781.
Huntington, Morgan G. Method and apparatus for destructive distillation of solid hydrocarbonaceous materials including reactions between gases and unsized solids and the physical separation thereof. 3,475,317, 10-28-69, Cl. 208-10.
Huntley, Christopher R., to Automatic Electric Laboratories, Inc. Low-distortion bias-controlled transistor amplifier. 3,434,066, 3-18-69, Cl. 330-13.
Huntley, Christopher R., to Automatic Electric Laboratories, Inc. Low distortion variolosser. 3,452,290, 6-24-69, Cl. 330-28.
Huntsman, Raleigh L.: *See—*
Neff, Charles W.; and Huntsman, Raleigh L.,3,469,730.
Huntwork, Claude Raymond, to National Graphics Corporation, mesne. Sheet unstacking and fanning machine. 3,459,420, 8-5-69, Cl. 271-45.
Huntzinger, Gerald O., to General Motors Corporation. Electric cranking motor automatic disconnect circuit. 3,443,112, 5-6-69, Cl. 290-38.
Hunziker, Ernst, to Fischer, Georg, AG Brugg. Heating rails for joint gluing machines. 3,440,127, 4-22-69, Cl. 156-583.
Hunziker, Ernst, to Fischer, Georg, AG Brugg. Device for feeding veneers into a veneer composing machine for gluing veneers together. 3,446,336, 5-27-69, Cl. 198–034
Hunziker, Fitz: *See—*
Schmutz, Jean; Hunziker, Fitz; and Kunzle, Franz Martin,3,454,561.
Hunziker, Fritz: *See—*
Schmutz, Jean; Hunziker, Fritz; Kunzle, Franz Martin; and Russel, Jeff Hamish,3,478,056.
Hupfer, Harold Matthew, to Whirlpool Corporation. Adjustable caster with anti-tip device. 3,432,878, 3-18-69, Cl. 16-32.
Hupp Corporation: *See—*
Smith, Horace L., Jr., 3,447,338.
Huppes, Nicolaas: *See—*
Falbe, Jurgen F.; and Huppes, Nicolaas,3,446,839.
Huppi, Gerhard A.; and Siddall, John B., to Zoecon Corporation, mesne. Polyhydroxy steroids and processes for their preparation. 3,481,926, 12-2-69, Cl. 260-239.55
Huppmann, Fritz. Plant for the continuous preparation of brewer's mash and for the cooking of wort. 3,468,240, 9-23-69, Cl. 99-276.
HUPSI Corporation: *See—*
Launder, James M., 3,466,007.
Hupsi Corporation, The: *See—*
Launder, James M., 3,458,002.
Hurd, Billy G.: *See—*
Brandner, Carl F.; Dunlap, Peggy M.; Foster, William R.; and Hurd, Billy G.,3,437,141.
Foster, William R.; Hurd, Billy G.; and Dunlap, Peggy M.,3,437,140.
Hurd, Billy G., to Mobil Oil Corporation. Method of desorbing surfactant and reusing it in flooding water. 3,474,864, 10-28-69, Cl. 166-272.
Hurd, Billy G., to Mobil Oil Corporation. Method of maximizing efficacy of surfactant in flooding water. 3,477,508, 11-11-69, Cl. 166-250.
Hurd, Billy G.; and Foster, William R., to Mobil Oil Corporation. Method of minimizing adsorption of surfactant from flooding water. 3,469,630, 9-30-69, Cl. 166-250.
Hurd, Donald J.: *See—*
Ernst, Eric O.; Hurd, Donald J.; and Seeley, Gerard,3,424,629.
Hurd, Jerome N., to United States Gypsum Company. Wallboard attachment and apparatus therefor. 3,476,302, 11-4-69, Cl. 227-120.
Hurd, Mark Aerial Surveys, Inc.: *See—*
Miller, Raymond H., 3,421,721.
Hurd, Ramon L., to Huck Manufacturing Company. Crimping tool. 3,478,564, 11-18-69, Cl. 72-391.
Hurd, Ramon L.; and Wittmeyer, Herbert M., to Huck Manufacturing Company. Flush fastener for panel assembly including soft core material. 3,459,447, 8-5-69, Cl. 287-189.36
Hurd, Richard N.: *See—*
Bertsch, Hugh C.; Hurd, Richard N.; McDermott, John P.; and White, Wesley R.,3,437,677.
Hurd, William Sprech: *See—*
Schwitzgebel, Ralph K.; and Hurd, William Sprech,3,478,344.
Hurd, Willis F., to Sperry Rand Corporation. Switching apparatus. 3,456,122, 7-15-69, Cl. 307-29.
Hureau, Jacques, to Generale Alimentaire S.A. Method and apparatus for producing sheathed electric cable. 3,473,986, 10-21-69, Cl. 156-51.
Hurick, Richard A.: *See—*
Oellerich, Werner B.; and Hurick, Richard A.,3,432,932.
Hurka, Rudolph J., Jr.: *See—*
Carothers, John N.; and Hurka, Rudolph J., Jr.,3,442,609.
Hurkamp, Alan C., to Sanders Associates, Inc. Background cancelling opitcal detection system. 3,430,047, 2-25-69, Cl. 250-199.
Hurko, Bohdan, to General Electric Company. Two-stage self-sustaining catalytic oxidation unit. 3,428,434, 2-18-69, Cl. 23-288.
Hurko, Bohdan, to General Electric Company. Broiling oven with tilting heating means. 3,450,861, 6-17-69, Cl. 219-404.
Hurko, Bohdan, to General Electric Company. Self-adjusting hinge for surface heating unit. 3,482,079, 12-2-69, Cl. 219-463.
Hurko, Bohdan; and Dills, Raymond L., to General Electric Company. Self-sustaining catalytic oxidation unit. 3,428,435, 2-18-69, Cl. 23-288.
Hurlbert, Loyal L., to Schlumberger Technology Corporation. Electric power transmission system for well logging. 3,459,955, 8-5-69, Cl. 307-12.
Hurlbert, Loyal L., to Schlumberger Technology Corporation. Nuclear magnetic logging signal verification technique. 3,484,680, 12-16-69, Cl. 324-0.5
Hurlburt, Charles E., to Bendix Corporation, The. Apparatus and method for cancellation of spring rate in gyroscope with flexural support. 3,483,760, 12-16-69, Cl. 74-5.
Hurlburt, Joseph C., to Sperry Rand Corporation. Mechanical cutterbar lift. 3,449,893, 6-17-69, Cl. 56-25.
Hurlburt, Joseph C., to Sperry Rand Corporation. Harvester reel. 3,472,008, 10-14-69, Cl. 56-220.
Hurlbut, Gordon K.; and Gagne, Antoine F., to Textron, Inc. Edge grinding machine for lenses. 3,461,619, 8-19-69, Cl. 51-127.
Hurle, Donald Thomas James: *See—*
Mullin, John Brian; and Hurle, Donald Thomas James,3,460,998.
Hurle, Ian R.: *See—*
Hertzberg, Abraham; and Hurle, Ian R.,3,487,333.
Hurletron Incorporated: *See—*
Adamson, Robert G.; and Thiede, Paul W., 3,468,201.
Adamson, Robert G.; Angell, Charles H.; Roote, Jay C.; Hutchison, Joel F.; and Coberley, Daniel A., 3,477,369.
Hurley, Daniel J.: *See—*
Dimond, Harold L.; Hurley, Daniel J.; and Pascarella, Vincent J.,3,487,104.
Hurley, Daniel J.; Kresge, Alfred N.; Rosenthal, Robert W.; and Williamson, Roger C., to Gulf Research & Development Company. Production of alkyl monochlorides. 3,437,573, 4-8-69, Cl. 204-163.
Hurley, Forbes M.; and Nault, William A. Prelubricated bearing surface, and method of preparing the same. 3,441,328, 4-29-69, Cl. 308-238.
Hurley, Forrest R.: *See—*
Angstadt, Richard L.; and Hurley, Forrest R.,3,427,175.
Krau, John W.; and Hurley, Forrest R.,3,434,917.
Hurley, Richard C., to Fusion Rubbermaid Corporation. Tapered wall tube. 3,454,235, 7-8-69, Cl. 242-46.21
Hurlick, Ronald James: *See—*
Briggs, Peter James; and Hurlick, Ronald James,3,459,703.
Hurlin, Kenneth P., to Ford Motor Company. Brush Assembly. 3,482,135, 12-2-69, Cl. 310-239.
Hurlock, Ronald James; Wood, Leonard; and Sharma, Vijay Ratna, to Imperial Chemical Industries Limited. Nickel dithiocarbamates. 3,483,239, 12-9-69, Cl. 260-439.
Hurney, William P. Fingertip bandages. 3,476,109, 11-4-69, Cl. 128-157.
Hurschman, Alfred A., to Ampoules, Inc. Assembly filling and sealing of plastic ampoules. 3,422,594, 1-21-69, Cl. 53-37.
Hursen, Thomas F., to Westinghouse Electric Corporation. Two-coil linear motion device. 3,449,603, 6-10-69, Cl. 310-12.
Hursh, Charles M.: *See—*
Keister, Oliver B., Jr.; Hursh, Charles M.; and Link, John G.,3,446,373.
Hursh, Neal W., to RCA Corporation. Protection circuit. 3,450,935, 6-17-69, Cl. 315-27.
Hursh, Neal W.; and Mooreland, Ronald R., to RCA Corporation. Shield. 3,479,566, 11-18-69, Cl. 317-103.
Hurst, Alan R., to Phillips Petroleum Company. Composite differential release tape. 3,432,333, 3-11-69, Cl. 117-68.
Hurst, Alan R., to Morton Salt Company, mesne. Primer for flexible non-porous surfaces. 3,445,326, 5-20-69, Cl. 161-207.
Hurst, Arthur: *See—*
Stephens, Frederick Allen; and Hurst, Arthur,3,432,059.
Hurst, Gerald L.; and Khayat, Saadideen I., to Kewanee Oil Company. Process for producing trans-difluorodiazine. 3,427,133, 2-11-69, Cl. 23-205.
Hurst, Jack: *See—*
Anspon, Harry D.; and Hurst, Jack,3,485,785.
Anspon, Harry D.; and Hurst, Jack,3,486,929.
Hurst, Jack, to Gulf Oil Corporation, mesne. Method of preparing amide polymers. 3,429,860, 2-25-69, Cl. 260-86.7
Hurst, James A. Adhesive tube and dispenser. 3,485,147, 12-23-69, Cl. 93-80.
Hurst, Jerry C.; and Kurtz, Samuel E., to Western Electric Company, Incorporated. Loading a plurality of articles into a workholder Pallet conveyor with lock mechanism. 3,480,165, 11-25-69, Cl. 214-152.

Hurst, Justin, to Russell Constructions Limited. Vibratory mounting for sieves and like apparatus. 3,444,999, 5-20-69, Cl. 209-316.
Hurst, Kenneth: *See—*
Carter, Donald E.; and Hurst, Kenneth,3,475,231.
Hurst, Kurt: *See—*
Clauss, Siegbert; Hurst, Kurt; and Ortlieb, Alfred,3,466,658.
Steinke, Leo; Sohner, Gerhard; Hurst, Kurt; Gerber, Richard; Frimmel, Karl; and Herrmann, Otto,3,486,075.
Hurst, Kurt, to Bosch, Robert, G.m.b.H. Apparatus for transporting tape. 3,472,438, 10-14-69, Cl. 226-176.
Hurst, Kurt; and Ortlieb, Alfred, to Bosch, Robert, G.m.b.H. Thermal recorder. 3,453,649, 7-1-69, Cl. 346-76.
Hurst, Leonard L., Jr., to International Electric Fence Co., Inc. Solid state fence controller. 3,439,183, 4-15-69, Cl. 307-132.
Hurst, Mowatt M., to Johnson, S. C., & Son, Inc., mesne. Automobile washing method. 3,432,346, 3-11-69, Cl. 134-34.
Hurst, Norman Ashcroft; Gray, Thomas Edward Horace; and Jones-Hinton, James, to Dunlop Rubber Company Limited. Manufacture of plastic articles. 3,464,099, 9-2-69, Cl. 29-148.4
Hurst, Paul L.; and Oswald, Joseph, to Caterpillar Tractor Company. Apparatus for positioning a belt driven generator. 3,430,507, 3-4-69, Cl. 74-242.15
Hurst, Richard J.: *See—*
Baker, William J.; and Hurst, Richard J.,3,480,119.
Hurst, Thomas B.; and Darlinger, Edward P., to Babcock & Wilcox Company, The. Hot gas quencher. 3,420,508, 1-7-69, Cl. 261-116.
Hurst, Willard. Awning shutter. 3,429,070, 2-25-69, Cl. 49-158.
Hurst-Campbell, Inc.: *See—*
Ballard, Robert L., 3,450,444.
Hurt, Norman Albert: *See—*
Emblem, Harold Garton; Hurt, Norman Albert; and Wilkinson, Ernest Malcolm,3,420,779.
Hurtest Products Corporation: *See—*
Cohen, Jerome H., 3,471,955.
Hurtig, Carl R., to Damon Engineering, Inc. Mathematical teaching aid. 3,464,123, 9-2-69, Cl. 35-30.
Hurtig, Carl R., to Damon Engineering, Inc. Linear crystal discriminator circuit. 3,475,690, 10-28-69, Cl. 329-117.
Hurtig, Carl R.; and Madeson, Austen, to Damon Engineering, Inc. Spectrum analysis using swept parallel narrow band filters. 3,473,121, 10-14-69, Cl. 324-77.
Hurtle, James E.; and Kast, Howard B., to General Electric Company. Viscosity compensated flow regulating device. 3,442,284, 5-6-69, Cl. 137-110.
Hurtle, Ralph L., to General Electric Company. Electric current interrupting device. 3,430,016, 2-25-69, Cl. 200-144.
Hurtle, Ralph L., to General Electric Company. Circuit breaker mechanism. 3,430,164, 2-25-69, Cl. 335-22.
Hurtle, Ralph L., to General Electric Company. Electric circuit breaker with assisted arc interruption. 3,436,597, 4-1-69, Cl. 317-11.
Hurtle, Ralph L., to General Electric Company. Electric circuit interrupter. 3,454,832, 7-8-69, Cl. 317-11.
Hurtle, Ralph L., to General Electric Company. Current limiter device-thyristor current limiting static circuit breaker. 3,454,833, 7-8-69, Cl. 317-20.
Hurtle, Ralph L., to General Electric Company. Electric circuit breaker with break-away coupling. 3,483,490, 12-9-69, Cl. 335-6.
Hurtle, Richard L. Packaging machine. 3,448,558, 6-10-69, Cl. 53-141.
Hurtmanns, Heinz: *See—*
Decker, Hanns; Stockmann, Helmut; and Hurtmanns, Heinz,3,477,651.
Hurtner, Thomas A.; and Miller, Charles H., Jr., to McDonnell Douglas Corporation. Seat pallet latch. 3,486,204, 12-30-69, Cl. 24-201.
Hurtt, Robert S. Container having loop fastening means. 3,474,928, 10-28-69, Cl. 220-60.
Hurutate, Hirotugu: *See—*
Fukada, Shuzo; Kido, Takayoshi; and Hurutate, Hirotugu,3,470,942.
Hurvitz, Hyman: *See—*
Cooper, James N., 3,459,901.
Hurvitz, Hyman. Electro-fluid systems. 3,438,384, 4-15-69, Cl. 137-81.5
Hurwitz, Marvin J.: *See—*
Cenci, Harry J.; and Hurwitz, Marvin J.,3,485,775.
Hurwitz, Mathew; Reynolds, John M.; and Fahimian, Edward J., to Dynatech Corporation. Dielectrophoretic fluid separating system. 3,423,306, 1-21-69, Cl. 204-299.
Hurwitz, Paul D., to Sherman Car Wash Equipment Company. Vehicle contour follower blower. 3,442,027, 5-6-69, Cl. 34-54.
Hurworth, Neville Robert: *See—*
Goodman, Isaac; and Hurworth, Neville Robert,3,475,385.
Hus, Johannes, to Burndy Corporation. Electrical connection between movable parts. 3,479,444, 11-18-69, Cl. 174-86.
Hus, Martinus: *See—*
Kramer, Jan; and Hus, Martinus,3,443,388.
Husa, Ronald G., to United States of America, Atomic Energy Commission, mesne. Triggered volt - second generator. 3,432,682, 3-11-69, Cl. 307-88.
Husain, Iftikhar: *See—*
Chipalkatti, Vasant Bhimrao; Desai, Ramanlal Markandrai; Sattur, Naranyan Balvantrao; and Husain, Iftikhar,3,457,026.
Husaini, Syed M., to Adolph's Food Products Mfg., Co. Tumbling process for the production of readily soluble algin. 3,423,397, 1-21-69, Cl. 260-209.6
Husar, Karel: *See—*
Mills, Samuel M.; and Husar, Karel,3,453,163.
Husband, Robert M.: *See—*
Kaliski, Adam F.; and Husband, Robert M.,3,484,271.
Husby, Richard E., to Phillips Petroleum Company. Fire extinguisher box. 3,451,580, 6-24-69, Cl. 220-4.
Huscher, Howard I.: *See—*
Ellwanger, Charles G.; Huscher, Howard I.; and Payment, Robert J.,3,468,435.
Huschke, Ernst G., Jr.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,473,216.
Husebo, James L. Safety plug block. 3,422,389, 1-14-69, Cl. 339-37.
Huser, Joseph L.: *See—*
Huser, Robert R.; Huser, Joseph L.; and Leonard Herman A.,3,448,657.
Huser, Robert R.; Huser, Joseph L.; and Leonard Herman A., to B & H Tool and Machine Corporation. Ram. 3,448,657, 6-10-69, Cl. 90-96.
Hushen, Frederick: *See—*
Colarusso, Augustine L.; and Hushen, Frederick,3,465,911.
Husimi, Kazuo, to Takeda Riken Industry Company Limited. Decimal counting apparatus. 3,426,182, 2-4-69, Cl. 235-92.
Huska, Paul. Reversible speed reducer. 3,472,097, 10-14-69, Cl. 74-760.
Huska, Paul. Amplified mechanical actuator. 3,475,979, 11-4-69, Cl. 74-89.16
Huskey, Eugene D.: *See—*
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,421,457.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,453,885.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,463,843.
Huskins, Chester W.: *See—*
Ayers, Orval E.; Huskins, Chester W.; and Carter, Herbert A.,3,432,444.
Ayers, Orval E.; Huskins, Chester W.; and Fant, Bert T.,3,442,081.
Huskins, Joseph Walter, to Imperial Metal Industries(Kynoch) Limited. Shotgun cartridge. 3,442,214, 5-6-69, Cl. 102-42.
Husky Corporation: *See—*
Carder, Mervin L.; and Sutcliffe, Eugene G., 3,474,837.
Husky, Glover A., to Industrial Metalcraft Company, Inc. Irrigation apparatus. 3,478,773, 11-18-69, Cl. 137-344.
Husky Manufacturing and Tool Works Ltd.: *See—*
Rees, Herbert, 3,454,991.
Husky Mnufacturing and Tool Works Ltd.: *See—*
Rees, Herbert, 3,482,284.
Husmann, Otto K., to United States of America, National Aeronautics and Space Administration, mesne. Multilayer porous ionizer. 3,421,864, 1-14-69, Cl. 29-182.2
Husmann, Robert A., to McDonnell Douglas Corporation. Load lift assembly. 3,456,976, 7-22-69, Cl. 294-74.
Husock, Bernard, to Harco Corporation. Protective system. 3,448,033, 6-3-69, Cl. 204-196.
Husome, Robert G., to San Marino Electronic Corporation. Empty bottle inspection machine. 3,434,594, 3-25-69, Cl. 209-74.
Huson, Gale, to Signode Corporation. Method of forming a palletized load. 3,429,095, 2-25-69, Cl. 53-24.
Huson, Gale: *See—*
Sauer, Leo Peter; and Huson, Gale,3,443,512.
Husqvarna Vapenfabriks Aktiebolag: *See—*
Brynge, Per Gunnar; and Reenstierna, Erik Gustaf Bertil, 3,425,376.
Ojelid, Goran Axel Runo, 3,422,239.
Ojelid, Goran Axel Runo, 3,467,803.
Rendahl, Ingvar, 3,447,497.
Huss, Donald E.: *See—*
McClellan, Herbert L.; and Huss, Donald E.,3,456,474.
Huss, Otto, to Hannes Marker Sicherheits-Skibindungen KG. Heel-holding device for safety ski bindings. 3,423,100, 1-21-69, Cl. 280-11.35
Huss, Stanley B. Apparatus for continouosly laminating webs. 3,432,377, 3-11-69, Cl. 156-494.
Hussain, Iftikhar: *See—*
Chipalkatti, Vasant B.; Desai, Ramanlal M.; Sattur, Narayan B.; and Hussain, Iftikhar,3,457,024.
Husserl, Henry P.: *See—*
Saccoccio, Anthony R.; and Husserl, Henry P.,3,462,808.
Hussey, Joseph L., to Astrodata, Inc. Digital attenuator which controls a variable conductance. 3,462,588, 8-19-69, Cl. 235-150.53
Hussey, Robert R., to Ashtabula Bow Socket Company, The. Convertible top. 3,442,551, 5-6-69, Cl. 296-117.

Husted, David W., to Baia Corporation. Dual format viewer. 3,446,549, 527-69, Cl. 352-104.

Husted, David W.; and Holbrook, James A. Motion picture film viewer. 3,459,472, 8-5-69, Cl. 352-129.

Husted, Donald R.: *See—*
Koshar, Robert J.; and Husted, Donald R.,3,461,162.

Husted, Hoyt L.; and Van Deventer, Emil L., to North American Rockwell Corporation. Triaxial optical alignment. 3,480,367, 11-25-69, Cl. 356-150.

Huster, Franz-Joseph, to Dynamit Nobel Aktiengesellschaft. Hardenable boron-containing synthetic resins comprising the reaction product of a cyclic aryl borate and anhydrous formaldehyde. 3,427,283, 2-11-69, Cl. 260-51.

Huston, Alexander Edward; and Procter, David Alwyn, to United Kingdom Atomic Energy Authority. Camera tube deflection system for providing beam shutter action. 3,443,148, 5-6-69, Cl. 315-30.

Huston, Henry H.: *See—*
Ludder, Rodney E.; and Huston, Henry H.,3,442,435.

Huston, Leroy S., Jr.: *See—*
Audesse, Emery G.; and Huston, Leroy S., Jr.,3,466,489.

Huston, Paul O.: *See—*
Boudreau, Frank; Huston, Paul O.; and Rasmusson, Donald R.,3,428,188.

Huston, William J., Sr. Means and method of destroying old automobiles and the like. 3,439,608, 4-22-69, Cl. 100-38.

Huston, William J., Sr.; and McConnell, Howard B. Magnetic base saber saw. 3,436,824, 4-8-69, Cl. 30-273.

Hutchens and Son Metal Products, Inc.: *See—*
Hutchens, Charles T., 3,469,860.

Hutchens, Charles T., to Hutchens and Son Metal Products, Inc. Spring mounting. 3,469,860, 9-30-69, Cl. 280-104.5

Hutchens, Wilbur D.: *See—*
Ytzen, Glenn R.; and Hutchens, Wilbur D.,3,456,916.

Hutcheon, Keith Finer: *See—*
Glikin, Paul Edgar; and Hutcheon, Keith Finer,3,446,148.

Hutcheon, Keith Finer; and Thornber, John Charles Powell, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,421,444, 1-14-69, Cl. 103-2.

Hutcherson, Brian K. Interacting steering-suspension system for a self-propelled or towed vehicle. 3,430,724, 3-4-69, Cl. 180-79.

Hutcheson, Guilford J., Jr.: *See—*
Ehrlich, John J.; Hutcheson, Guilford J., Jr.; Rust, Charles M.; Roberts, Thomas G.; and Cason, Charles M., III,3,464,267.

Hutchings, John H.: *See—*
Gray, Donald I.; Hutchings, John H.; and Wohlert, Andrew M.,3,486,088.

Hutchings, Le Roi E.: *See—*
Joo, Louis A.; Hutchings, Le Roi E.; and Muller, Nathan W.,3,450,623.

Hutchins, Aaron J., 50% to Hutchins, Hubert R. Pump. 3,438,331, 4-15-69, Cl. 103-124.

Hutchins, Aaron J., 50% to Hutchins, Hubert R. Pumps. 3,438,332, 4-15-69, Cl. 103-124.

Hutchins, Aaron J., 50% to Hutchins, Hubert R. Rotary pump. 3,438,333, 4-15-69, Cl. 103-142.

Hutchins, Blanchard S.: *See—*
Karnow, Paul; and Hutchins, Blanchard S.,3,424,474.

Hutchins, Hubert R.: *See—*
Hutchins, Aaron J., 3,438,331.
Hutchins, Aaron J., 3,438,332.
Hutchins, Aaron J., 3,438,333.

Hutchins, Marlyn R., to Raven Industries, Inc. Locking device. 3,473,354, 10-21-69, Cl. 70-312.

Hutchins, Marsden Clair; and Quinn, Robert Gerard, to Johns-Manville Corporation. Paper for graphic arts consisting of asbestos fibers, acrylic resin, and size. 3,441,474, 4-29-69, Cl. 162-155.

Hutchins, Thomas W.: *See—*
Bloomberg, Fritiof M.; and Hutchins, Thomas W.,3,425,938.

Hutchins, Ward H.: *See—*
Beatenbough, Paul K.; Hutchins, Ward H.; and Orcutt, John W.,3,448,659.

Hutchinson, Ann, to General Electrodynamics Corporation. Photoconductive device. 3,423,237, 1-21-69, Cl. 117-201.

Hutchinson, Carl R., to FMC Corporation. Wellhead apparatus. 3,424,478, 1-28-69, Cl. 285-90.

Hutchinson, Desmond Ernest; and Wilkinson, Harry, to English Electric Company Limited, The. Rotary actuators. 3,449,982, 6-17-69, Cl. 74-626.

Hutchinson, Edmund C., deceased0 (by Hutchinson, Elizabeth B., executrix), to Campbell Soup Company. Carton handling system and apparatus. 3,420,036, 1-7-69, Cl. 53-186.

Hutchinson, Edmund C., deceased0 (by Hutchinson, Elizabeth B.; executrix), to Campbell Soup Company. Can labelling apparatus. 3,472,722, 10-14-69, Cl. 156-455.

Hutchinson, Elizabeth B.: *See—*
Hutchinson, Edmund C.,3,420,036.
Hutchinson, Edmund C.,3,472,722.

Hutchinson, George, to Meinhardt, Howard, Company, The. Metal decking. 3,469,509, 9-30-69, Cl. 94-13.

Hutchinson, Harold D., to Moorman Manufacturing Company. Animal food composition. 3,428,457, 2-18-69, Cl. 99-2.

Hutchinson, Herman R., to Pennsalt Chemicals Corporation. Molding apparatus and method. 3,436,443, 4-1-69, Cl. 264-40.

Hutchinson, Joseph; and Casey, Lloyd, to McGraw-Edison Company. Liquid fuel burning appliance and components therefor. 3,485,567, 12-23-69, Cl. 431-210.

Hutchinson, Malcolm: *See—*
Starmer, Roy; and Hutchinson, Malcolm,3,444,049.

Hutchinson, Philip: *See—*
Cull, William; and Hutchinson, Philip,3,452,558.

Hutchinson, Philip, to Birfield Engineering Limited. Universal joints. 3,464,232, 9-2-69, Cl. 64-21.

Hutchinson, Robert H., to Armstrong Cork Company. Cork-rubber gasketing and cushioning composition containing low density cellular rubber particles and a thermosetting binder. 3,457,202, 7-22-69, Cl. 260-2.5

Hutchinson, Seymour M.: *See—*
Hutchinson, Seymour M.; and Spitz, Adrian N., 3,452,745.

Hutchinson, Seymour M.; and Spitz, Adrian N., 37 1/2% to Hutchinson, Seymour M. 37 1/2% to Spitz, Adrian N., and 25% to Kunik, Jordan I. Hand-operated pulsating cleaning device. 3,452,745, 7-1-69, Cl. 128-66.

Hutchinson, William George; and Cole, Leslie Charles, to United Kingdom Atomic Energy Authority. Thermal insulation. 3,421,977, 1-14-69, Cl. 176-40.

Hutchinson, William M.; and Melvin, William J., to Collins Radio Company. Glass delay line recirculating memory. 3,432,816, 3-11-69, Cl. 340-173.

Hutchinson, William M.; and Williford, Jerry G., to Collins Radio Company. Keyed filter using RC circuits. 3,448,391, 6-3-69, Cl. 329-50.

Hutchinson, William Y., to Continental Scale Corporation. Portable scale with hand carrying hole in platform. 3,481,415, 12-2-69, Cl. 177-253.

Hutchison, Charles H. Adjustable latch. 3,469,877, 9-30-69, Cl. 292-241.

Hutchison, Joel F.: *See—*
Adamson, Robert G.; Angell, Charles H.; Roote, Jay C.; Hutchison, Joel F.; and Coberley, Daniel A.,3,477,369.

Hutchison Manufacturing Company: *See—*
Philipp, William C., 3,432,127.

Hutchison, Marion E.: *See—*
Doerfer, Richard E.; and Hutchison, Marion E.,3,420,148.

Hutchison, Miller R., Jr., to Eastman Kodak Company. Automatic focusing motion picture projector. 3,471,225, 10-7-69, Cl. 352-140.

Hutchison, Paul T., to Bell Telephone Laboratories, Incorporated. Noise reduction in frequency modulation system. 3,440,569, 4-22-69, Cl. 332-18.

Hutchison, Ronald Thomas James; and Jenkins, Stuart Mc Ewen, to General Electric Company Limited, The. Vibration resistant switch utilizing an elongated stationary contact co-acting with a planar movable apertured contact. 3,433,912, 3-18-69, Cl. 200-83.

Hutchison, Stanley O.; Anderson, Glen W.; and Mc Kinnell, John C., to Chevron Research Company. Ammoniated foamed well circulation fluids and uses thereof. 3,486,560, 12-30-69, Cl. 166-292.

Hutchison, Stanley O.; Anderson, Glen W.; and McKinnell, John C., to Chevron Research Company. Generation and use of foamed well circulation fluids. 3,463,231, 8-26-69, Cl. 166-303.

Huter, Ludwig, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Preparation of nitriles from α-unsaturated hydrocarbons and HNO_2. 3,441,591, 4-29-69, Cl. 260-464.

Huter, Ludwig; Losenske, Christa; and Schirmer, Dieter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for treating silicic acids and silicates. 3,427,130, 2-11-69, Cl. 23-182.

Hutfles, Lawrence H.: *See—*
Dreyer, John F.; and Hutfles, Lawrence H.,3,426,728.

Hutfles, Lawrence H., to Dreyer, John F. Method of making and reproducing surfaces capable of orienting nematic dichroic materials. 3,459,839, 8-5-69, Cl. 264-2.

Huth, Gerald C.; and McKinney, Russell A., to United States of America, Atomic Energy Commission. Radiation detector. 3,449,177, 6-10-69, Cl. 148-187.

Huth, Gerald W., to Huth Manufacturing Corporation. Tubing bender. 3,429,157, 2-25-69, Cl. 72-32.

Huth, Heinz, to Dragoco Gerberding & Co. G.m.b.H. Process for preparing a fried onion flavoring. 3,424,592, 1-28-69, Cl. 99-140.

Huth Manufacturing Corporation: *See—*
Huth, Gerald W., 3,429,157.

Huth, Margaret Mary. Jewelry storage rack. 3,421,634, 1-14-69, Cl. 211-123.

Hutson, Andrew R.; and Tien, Ping K., to Bell Telephone Laboratories, Incorporated. Gunn effect devices. 3,440,425, 4-22-69, Cl. 250-199.

Hutson, Clifford L. Oral evacuator. 3,460,255, 8-12-69, Cl. 32-33.

Hutson, Cyril, to Black, H. R., Company. Filter screen mounting and conveying means. 3,485,379, 12-23-69, Cl. 210-400.

Hutson, Jearld L. Integrated semiconductor switch system. 3,475,666, 10-28-69, Cl. 317-235.

Hutson, Jearld L. Photosensitive power control system. 3,475,676, 10-28e69, Cl. 323-21.
Hutson, Thomas, Jr.; and Carter, Cecil O., to Phillips Petroleum Company. Formation and regeneration of catalyst in an alkylation and isomerization process. 3,476,825, 11-4-69, Cl. 260-683.53
Hutson, Thomas, Jr.: *See*—
Sanford, Richard A.; McCray, Floyd D.; and Hutson, Thomas, Jr.,3,424,975.
Hutson, Tom, Jr.; and Carter, Cecil O., to Phillips Petroleum Company. Alkylation utilizing fine dispersion of reactants in a constant catalyst mass. 3,435,092, 3-25-69, Cl. 260-683.43
Huttel, Gottfried, to Leitz, Ernst, G.m.b.H. Distance measuring instrument. 3,483,626, 12-16-69, Cl. 33-143.
Huttenlocher, Dietrich F., to General Electric Company. Hermetic refrigerant motor compressor unit. 3,450,338, 6-17-69, Cl. 230-206.
Huttenwerk Oberhausen AG: *See*—
Becker, Gerhard, 3,479,229.
Pantke, Heinz-Dieter; and Hickmann, Herbert, 3,430,689.
Pantke, Heinz-Dieter; and Hickmann, Herbert, 3,450,396.
Hutter, Ernest; and Hooker, Harris H., to United States of America, Atomic Energy Commission. Electrical connector for use in liquid metal. 3,471,826, 10-7-69, Cl. 339-94.
Hutter, Heinrich, to Bolkow Gesellschaft mit beschrankter Haftung. Support for thrust engine propellant charge. 3,483,703, 12-16-69, Cl. 60-255.
Hutter, Leonard J., to Pittsburgh-Des Moines Steel Company. Insulating foundation. 3,473,689, 10-21-69, Cl. 220-18.
Hutter, Wilhelm, to Niederrheinische Maschinenfabrik Becker & Van Hullen. Heated multistage press with synchronized closing device. 3,431,838, 3-11-69, Cl. 100-93.
Hutter, Will, to Niederrheinische Maschinenfabrik Becker & van Hullen. Multi-tier press with simultaneously opening and closing tiers. 3,451,334, 6-24-69, Cl. 100-200.
Hutto, Frank C., to Ford Motor Company. Piston ring assembly. 3,456,953, 7-22-69, Cl. 277-143.
Hutto, John F.: *See*—
Sherk, Fred T.; and Hutto, John F.,3,420,908.
Hutton, David G., to Du Pont de Nemours, E. I., and Company. Separation of hydrogen chloride from vinylidene fluoride. 3,442,961, 5-6-69, Cl. 260-653.3
Hutton, Gerald E.; Knittle, Gale L.; and Riley, Emmett E., to American Telephone and Telegraph Company. Distributing frame cut-over device. 3,444,337, 5-13-69, Cl. 179-178.
Hutton, Gerald E.: *See*—
Heck, Robert L.; and Hutton, Gerald E.,3,427,407.
Hutton, Henry James: *See*—
Rand, Walter Leslie; Hutton, Henry James; Toull, William Herbert; and Zouch, Leslie Eric,3,481,111.
Hutton, Richard W.; and Gettmann, Philip L., to Esco Corporation. Combination chain. 3,439,494, 4-22-69, Cl. 59-78.
Hutton, Ronald Eric: *See*—
Oakes, Vincent; Hutton, Ronald Eric; and Tonge, Brian Lawrence,3,448,130.
Hutz, Gerhard, to Siempelkamp, Eugen. Method and apparatus for the charging of platen presses. 3,450,030, 6-17-69, Cl. 100-35.
Hutz, Gerhard, to Siempelkamp, G., & Co. Twin conveyor system for the transport of loosely coherent mats. 3,482,675, 12-9-69, Cl. 198-102.
Hutzenlaub, Armin, to Erwin Kampf Maschinenfabrik. Device for heating and drying a material web by suspension in a tunnel. 3,485,429, 12-23-69, Cl. 226-97.
Hutzler, Erich K. Optical frequency modulator. 3,482,105, 12-2-69, Cl. 250-226.
Huval, Malcolm, to Chevron Research Company. Method of removing oil from water containing suspended solids. 3,471,401, 10-7-69, Cl. 210-23.
Huval, Malcolm: *See*—
Olson, Robert James; Ellis, George L.; and Huval, Malcolm,3,450,632.
Huver, Ben. Gun hanger. 3,468,508, 9-23-69, Cl. 248-314.
Huver, Lawrence L.: *See*—
Quinlan, William J.; and Huver, Lawrence L.,3,425,089.
Quinlan, William J.; and Huver, Lawrence L.,3,427,637.
Huvers, Marius E., to Canadair Limited. Drift angle meter for measuring the drift angle of aircraft. 3,469,102, 9-23-69, Cl. 250-209.
Huwil-Werke, Hugo Willach & Sohne: *See*—
Hallmann, Hermann, 3,421,348.
Huxley, Thomas C., III, to Agri Craft, Inc. Stress-compensated boom structure. 3,470,981, 10-7-69, Cl. 182-141.
Huyck Corporation: *See*—
Clark, Raymond C., 3,445,938.
Fisher, James I., 3,437,457.
Thorp, Benjamin Adelbert, 3,432,385.
Ward, Lowell G., 3,421,230.
Wicker, Dan B.; Bennett, James G., Jr.; and Ward, Lowell G., 3,481,806.
Huydts, Eduard; and Dischler, Helmut, to Maschinenfabrik Hasenclever Aktiengesellschaft. Driving mechanism for spindle presses and the like. 3,482,463, 12-9-69, Cl. 74-424.8
Huyffer, Paul S.: *See*—
Bloom, Stanley M.; and Huyffer, Paul S.,3,459,548.
Bloom, Stanley M.; and Huyffer, Paul S.,3,482,971.
Huynh, Chanh: *See*—
Martel, Jacques; Huynh, Chanh; Toromanoff, Edmond; and Nomine, Gerard,3,445,499.
Huys, Daniel Joseph: *See*—
Baetsle, Leon Henri; and Huys, Daniel Joseph,3,431,086.
Huyser, Earl S.; and Hartzell, Gordon E., to Dow Chemical Company, The. Free radical addition of non-tertiary alkanols to alpha olefins. 3,429,933, 2-25-69, Cl. 260-642.
Huyvaert, Robert H.; and Steinbrunner, Arthur A., to Bendix Corporation, The. Positioning device. 3,456,323, 7-22-69, Cl. 29-200.
Hvale, James L.; and Baumgartner, Robert L., to Markus-Campbell Company. Tachistoscope having card advance means. 3,482,332, 12-9-69, Cl. 35-35.
Hwa, Chih M., to Grace, W. R., & Co. Organic phosphorous acid compound-chromate corrosion protection in aqueous systems. 3,431,217, 3-4-69, Cl. 252-389.
Hwa, Jesse C. H.: *See*—
Herbstman, Sheldon; and Hwa, Jesse C. H.,3,431,277.
Hwalek, David C.: *See*—
Snitzer, Elias; Bazinet, Wilfred P., Jr.; and Hwalek, David C.,3,455,667.
Hwang, Ho Chien: *See*—
Herrick, Clifford E., Jr.; and Hwang, Ho Chien,3,481,740.
Hwang, Ying-Chen, to United States of America, Army, mesne. Symmetrical pulse generator controlled by self-resetting snap diodes. 3,479,535, 11-18-69, Cl. 307-319.
Hy-Grip Products Co.: *See*—
Hyland, Francis P., 3,424,451.
Hyatt, Asher A., to Monsanto Research Corporation. Novel aromatic N-heterocyclic esters of diarylcarbamoyl halides. 3,423,416, 1-21-69, Cl. 260-294.8
Hyatt, Asher A., to Monsanto Research Corporation. Novel substituted 1,2,4 triazoles(4H). 3,444,162, 5-13-69, Cl. 260-240.
Hyatt, Asher A., to Monsanto Research Corporation. Halogen substituted alkenyl thiazolinylthioethers. 3,475,445, 10-28-69, Cl. 260-306.7
Hyatt, Floyd A., to Evans Products Company. Freight bracing device. 3,465,692, 9-9-69, Cl. 105-369.
Hyatt, Marx: *See*—
Norman, Donald O.; and Hyatt, Marx,3,473,265.
Hyatt, Marx, to Baxter, J. H., & Co. Wooden stud wall or partition and support therefor. 3,423,893, 1-28-69, Cl. 52-241.
Hyatt, Philip L., to American Air Filter Company, Inc. Filter cell retaining apparatus. 3,434,269, 3-25-69, Cl. 55-490.
Hybl, Josef: *See*—
Bucil, Frantisek; Hybl, Josef; Kabele, Stanislav; and Vecera, Milos,3,439,488.
Hycalog, Inc.: *See*—
Hill, Jack O.; and Harding, James L., 3,423,945.
Hycon Mfg., Company: *See*—
Hillman, Murray J., 3,469,515.
Hyde, Burt E. Collapsible bath tub. 3,469,266, 9-30-69, Cl. 4-177.
Hyde, Dennis William; to Miller, Daniel D. System for detecting potential failure in bowling pin-setting machine. 3,470,553, 9-30-69, Cl. 340-268.
Hyde, Earl K.: *See*—
Bowman, Harry R.; Thompson, Stanley G.; Hyde, Earl K.; and Jared, Richard C.,3,433,954.
Hyde, Geoffrey; and Watson, Benjamin W., to United States of America, Army. Integral multiple hybrid comparator. 3,460,070, 8-5-69, Cl. 333-11.
Hyde, James R., to Grace, W. R., & Co. Process for preparing microspheroidal silica. 3,453,077, 7-1-69, Cl. 23-182.
Hyde Park Electronics, Inc.: *See*—
Breidenbach, Victor S.; and Close, Patrick B., 3,444,390.
Hyde, Paul E., to Flomatcher Co., Inc. Pneumatic control system and vent valve therefor. 3,424,090, 1-28-69, Cl. 103-35.
Hyde, Robert L., to Varo Inc. Transformerless converter-inverter. 3,465,231, 9-2-69, Cl. 321-2.
Hyde, Robert W. Method of killing elodea. 3,463,628, 8-26-69, Cl. 71-66.
Hyde, Thomas J., to Du Pont de Nemours, E. I., and Company. Formate and formamide blowing agents for polylactams. 3,449,269, 6-10-69, Cl. 260-2.5
Hyde, Walter E.; Farley, David L.; and Holden, John C., to Halliburton Company. Pressure assisted retrievable bridge plug. 3,422,900, 1-21-69, Cl. 166-131.
Hyde, William S., to Calumet & Hecla Corporation, mesne. Flying shear. 3,481,237, 12-2-69, Cl. 83-328.
Hyden, Alsie G. Resilient cover for golf bag strap. 3,435,867, 4-1-69, Cl. 150-1.5
Hyden, Seymour; Scarano, Louis; and Wilbert, Godfrey, to Nepera Chemical Co., Inc. Tricyclic ester derivatives of pyridine carboxylates and process for their production. 3,433,795, 3-18-69, Cl. 260-295.5
Hyden, Seymour; Wetstein, Henry; and Wilbert, Godfrey, to Nepera Chemical Co., Inc. Tertiary acetylenic esters of pyridine carboxylic acids. 3,466,294, 9-9-69, Cl. 260-295.5

Hyden, Seymour: *See—*
Wilbert, Godfrey; Hyden, Seymour; and Wetstein, Henry,3,438,993.
Hydorn, Allen E., to Squibb, E. R., & Sons, Inc. N-acylated-5-iodoindoles. 3,445,479, 5-20-69, Cl. 260-326.16
Hydrahone Equipment Division, John Mohr & Sons: *See—*
Knuppel, William F., 3,430,320.
Hydralink Corporation: *See—*
Orley, William J., 3,426,575.
Hydranamic Systems Corporation: *See—*
Ballard, Doyle R.; and Coe, Guy R., Jr., 3,467,126.
Hydrasearch Co., Inc.: *See—*
Clarke, John L., 3,445,127.
Deane, Martin A., 3,425,750.
Doerfler, Roger E., 3,447,836.
Waldron, Alton L., 3,442,329.
Hydraulik G.m.b.H.: *See—*
Croseck, Hans-Henning; and Grohmann, August, 3,468,152.
Deina, Rudolf, 3,469,431.
Hertl, Albert, 3,468,154.
Hydrean, Peter Paul, to International Nickel Company, Inc., The. Steels for hydrocracker vessels containing aluminum, columbium, molybdenum and nickel. 3,475,164, 10-28-69, Cl. 75-124.
Hydril Company: *See—*
Lewis, George E., 3,486,759.
Hydro Manufacturing, Inc.: *See—*
Gilbert, Samuel, 3,467,082.
Hydro-Aire Division: *See—*
Morando, Jorge A., 3,478,694.
Morando, Jorge A., 3,482,523.
Hydro-Clear Corporation: *See—*
Ross, David S., 3,459,302.
Hydrocarbon Research, Inc.: *See—*
Hellwig, Katherine C.; and Schuman, Seymour C., 3,471,580.
Hoffert, Franklin D., 3,483,116.
Johanson, Edwin S., 3,470,093.
Lehman, Leon M., 3,444,072.
Weber, Carl L.; and Wolk, Ronald H., 3,475,134.
Hydroconic Limited: *See—*
Clark, Ronald; and Corlett, Ewan Christian Brew, 3,442,244.
Clark, Ronald; and Corlett, Ewan Christian Brew, 3,457,891.
Hydroease Corporation: *See—*
Cooney, Leo A.; and Nobili, Marco, 3,425,222.
Hydromation Engineering Company: *See—*
Hirs, Gene; MacKenzie, Kenneth W.; and Stein, Alfred H., 3,468,778.
Hirs, Gene; and Stein, Alfred H., 3,480,330.
Hirs, Gene, 3,486,621.
Hydrometals, Inc.: *See—*
Arnold, Fredric E., Jr., 3,476,074.
Hydronautics: *See—*
Chambers, Henry B., 3,464,095.
Hydronautics, Inc.: *See—*
Brown, Clinton E., 3,450,601.
Slager, John J.; and Webster, William C., 3,426,718.
Hydrotrole Limited: *See—*
Morley, David C. W., 3,483,893.
Hyer, Frank S.; and Tolan, Peter J., to Cutler-Hammer, Inc. Weighing scale mechanism. 3,477,533, 11-11-69, Cl. 177-220.
Hyer, James M.; and Eastman, James M. Deflector fluidic amplifier. 3,486,520, 12-30-69, Cl. 137-81.5
Hygienic Bridgework, Incorporated: *See—*
Bahm, Glenn A.; and Andrews, James A., 3,423,827.
Hygrodynamics, Inc.: *See—*
Ohlheiser, Carlton Edward, 3,477,282.
Perlaky, Leopold, 3,477,279.
Hylan, John E., to Burroughs Corporation. Pawl and ratchet mechanism. 3,465,605, 9-9-69, Cl. 74-142.
Hyland, Francis P., to Hy-Grip Products Co. Apparatus for feeding blanks. 3,424,451, 1-28-69, Cl. 271-11.
Hyland, James W., Jr., to Owens-Illinois, Inc. Thermosetting cationic resin and method of making same. 3,434,984, 3-25-69, Cl. 260-18.
Hyldon, Roy G., to Quaker Oats Company, The. Drum drier improvement. 3,478,439, 11-18-69, Cl. 34-114.
Hyldon, Roy G.; Fink, Doris E.; and Aboul-Saad, Halim G., to Keever Company, The. Oxidation of starch. 3,450,692, 6-17-9, Cl. 260-233.3
Hyltin, Tom J.; Hoffman, William F.; and Austin, James E., to Texas Instruments, Incorporated. Bisected diode loaded line phase shifter. 3,454,906, 7-8-69, Cl. 333-31.
Hyltin, Tom M.: *See—*
Hoffman, William F.; and Hyltin, Tom M.,3,436,691.
Hyltin, Tom M., to Texas Instruments, Incorporated. Modular integrated electronics radar. 3,454,945, 7-8-69, Cl. 343-17.1
Hyltin, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D., to Texas Instruments, Incorporated. Complex integrated circuit array and method for fabricating same. 3,436,604, 4-1-69, Cl. 317-101.
Hyman, Abraham, to United States of America, Navy. Non-material aiming target. 3,475,029, 10-28-69, Cl. 273-102.2
Hyman, Abraham, to United States of America, Navy. Shock wave sensor. 3,484,741, 12-16-69, Cl. 340-16.
Hyman, Julius: *See—*
Look, Melvin; Padgett, Weldon M., II; Hyman, Julius; Fenyes, Joseph G. E.; and Lee, Herbert P. C.,3,480,646.
Hyman, Robert Anthony: *See—*
Beesley, John; and Hyman, Robert Anthony,3,480,755.
Hymatic Engineering Company Limited, The: *See—*
Mack, John E., 3,430,642.
Hymel, Moise J. Double-blade ditcher. 3,442,035, 5-6-69, Cl. 37-98.
Hymes, Alan C., to Wyandotte Chemicals Corporation, mesne. Method of operating heart-lung apparatus. 3,450,502, 6-17-69, Cl. 23-258.5
Hymore, Frank J.: *See—*
Ritter, George F., Jr.; Carson, Frank J.; and Hymore, Frank J.,3,476,540.
Hynes, Donald P.; and Knuth, Donald E., to Burroughs Corporation. Computer edit system. 3,454,929, 7-8-69, Cl. 340-172.5
Hynes Electric Heating Company: *See—*
Hynes, Lee P., 3,441,712.
Hynes, Frederick Margarson Bisgrove: *See—*
Hulka, Lubor Rene; and Hynes, Frederick Margarson Bisgrove,3,430,951.
Hynes, Lee P., to Hynes Electric Heating Company. Flexible multiconductor heater. 3,441,712, 4-29-69, Cl. 219-539.
Hynes, Richard M.; and Glenfield, George E., to S-F-D Laboratories, Inc. Ditherable and tunable microwave tube having a dithered tuner actuator of fixed length. 3,441,795, 4-29-69, Cl. 315-39.61
Hyodo, Hiroshi: *See—*
Kan, Masao; Hyodo, Hiroshi; Watanabe, Akio; and Enami, Shigekazu,3,432,327.
Hypher, Noel Charles: *See—*
Lobelle, Marcel Jules Odilon, deceased; Leonard, Paul Derrick; and Hypher, Noel Charles; executors,3,473,166.
Hyprez Electrometallics Corporation: *See—*
Schneider, Eric J.; and Saville, Peter A., 3,436,871.
Hypro, Inc.: *See—*
Cook, Ernest E.; and Pareja, Ramon, 3,431,865.
Cook, Ernest E., 3,457,941.
Sadler, Harry J., 3,472,171.
Sadler, Harry J., 3,477,377.
Hysaw, James H. Anchor. 3,430,596, 3-4-69, Cl. 114-208.
Hyson, Archibald M., to Du Pont de Nemours, E. I., and Company. Methods for stabilizing pesticidal compositions of 2-alkoxycarbonylaminobenzimidazolecarboxylic esters. 3,454,700, 7-8-69, Cl. 424-273.
Hyster Company: *See—*
Gaulke, Gary L., 3,480,100.
Mc Donald, John K., 3,478,656.
Peterson, Jack B., 3,437,019.
Hyter, Alfred C., to Alaron Pattern & Model, Inc. Elastic loop launcher. 3,437,084, 4-8-69, Cl. 124-19.
Hytonen, Valio Nikodemus. Zipper. 3,423,801, 1-28-69, Cl. 24-201.
Hytonen, Valio Nikodemus. Lock for closing and opening a zipper. 3,423,802, 1-28-69, Cl. 24-201.
I & R Morley Limited: *See—*
West, Ernest; Cotton, Ivan C.; Challenger, Frederick R.; and Cotton, Ivan C., 3,449,930.
I-T-E Circuit Breaker (Canada) Limited: *See—*
Turgeon, Joseph A., 3,459,876.
I-T-E Circuit Breaker Company: *See—*
Clement, Ralph C., 3,423,724.
Jensen, Otto, 3,433,911.
Jensen, Otto, 3,452,251.
Kelley, Thomas Ray, 3,437,826.
Kussy, Frank W.; and Di Marco, Bernard, 3,437,885.
McKeough, Daniel H., 3,436,505.
Shaffer, Howard R.; and Gryctko, Carl E., 3,437,970.
Stancil, Birley, 3,434,102.
Zocholl, Stanley E., 3,434,011.
I-T-E Imperial Corporation: *See—*
Brumfield, John C., 3,466,578.
Carter, William A., 3,452,173.
Davis, Russell S.; and Wescott, Alexander J., 3,462,541.
Di Marco, Bernard, 3,451,018.
Di Marco, Bernard, 3,460,079.
Dortort, Isadore K., 3,467,851.
Fox, Harold L.; and Thorne, Gale H., 3,472,255.
Gryctko, Carl E., 3,474,206.
Gryctko, Carl E., 3,477,044.
Kelley, Thomas Ray, 3,459,957.
Kelley, Thomas Ray, 3,462,754.
Kesselring, Fritz; and Aumayer, Hansruedi, 3,486,137.
Kralik, Andrew J., 3,467,924.
Letosky, Donald F.; and Platz, Elwood T., 3,466,577.
Monge, Michele; and Abbate Daga, Angelo, 3,465,772.
Myers, Felix E., 3,474,373.
Myers, Felix E.; and Goodnow, Weston W., 3,487,343.
Reighter, David H.; and Stratton, Robert L., 3,472,925.
Reighter, David H., 3,474,161.

Shaffer, Howard R.; and Brumfield, John C., 3,474,363.
Shaffer, Howard R., 3,484,728.
Strobel, Albert, 3,484,726.
Wilson, George A., 3,469,043.
Zocholl, Stanley E., 3,444,434.
Zocholl, Stanley E.; and Conrad, Richard R., 3,478,250.

Iacob, Ioan: *See*—
Adamache, Ion; and Iacob, Ioan,3,469,629.

Iadarola, Michael L.: *See*—
Toman, John W.; and Iadarola, Michael L.,3,465,909.

Iams, Aaron L. Multipurpose square. 3,456,353, 7-22-69, Cl. 33-112.

Iannicelli, Joseph: *See*—
Balentine, John Wesly; Iannicelli, Joseph; and Whitley, James B.,3,442,677.

Iannicelli, Joseph; Millman, Nathan; and Stone, William J. D., to Huber, J. M., Corporation. Process for improving the brightness of clays. 3,471,011, 10-7-69, Cl. 209-214.

Ianniello, Joseph W.: *See*—
Calkin, Edwin T.; and Ianniello, Joseph W.,3,430,107.
Calkin, Edwin T.; and Ianniello, Joseph W.,3,458,711.

Iannucci, Vincent A.; and Schartel, Ronald S., to North American Rockwell Corporation, mesne. Apparatus for preparing bobbins for delivery to an automatic winder. 3,480,216, 11-25-69, Cl. 242-35.6

Iannuzzi, William P., to RCA Corporation. Combination chrominance amplifier, burst amplifier, and burst gate circuit for a color television receiver. 3,469,022, 9-23-69, Cl. 178-5.4

Iansons, Alfred Ianovich. Method of feeding blanks to machine tools and device for realization of this method. 3,422,966, 1-21-69, Cl. 214-1.

Iantorno, James, to Sealectro Corporation. Method of installing a terminal to a plate. 3,460,234, 8-12-69, Cl. 29-432.1

Iba, Akikazu; and Sakai, Kenji, to Sumitomo Metal Industries Limited. Clamping device for forging die in press. 3,435,655, 4-1-69, Cl. 72-462.

Ibbotson, Arthur: *See*—
Gamlen, George Albert; and Ibbotson, Arthur,3,448,140.
Gamlen, George Albert; and Ibbotson, Arthur,3,454,620.

Ibe, Gerhard: *See*—
Assmus, Fritz; Boll, Richard; Detert, Klaus; Ganz, Dietrich; Ibe, Gerhard; and Pfeifer, Friedrich,3,466,201.

Ibigawa Electric Industry Co., Ltd: *See*—
Ochi, Hiroshi; Taki, Hiroshige; Sugimoto, Kimio; Hayase, Yoshimi; and Nakazawa, Bungo, 3,420,733.

Ibing, Guenther: *See*—
Ernst, Otto; Neubold, Kurt; Ibing, Guenther; and Kugler, Fritz,3,470,132.

Ibing, Guenther; Schirrmacher, Hermann; Vollmer, Herbert; Boemelburg, Josef; and Schwall, Fritz. Reactor with heat exchanger. 3,434,807, 3-25-69, Cl. 23-288.

Ibisch, Alvin C. Snow blower rotor. 3,423,857, 1-28-69, Cl. 37-43.

I.C.D. Corporation: *See*—
Burnhill, Michael S., 3,438,369.

Icenbice, Phineas J., Jr.; and Rooklyn, Janck, said Rooklyn assor to Republic Corporation. Card printer. 3,454,956, 7-8-69, Cl. 346-104.

Ichihara, Kiyoshi; and Kitamura, Junzo, to Hitachi, Limited. Process and apparatus for low boiling gas mixtures. 3,469,271, 9-30-69, Cl. 62-13.

Ichijo, Yasunori; and Nakamura, Yukio, to Kabushiki Kaisha Hattori Tokeiten. Photographic exposure control system. 3,425,328, 2-4-69, Cl. 95-10.

Ichikawa, Akira: *See*—
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru,3,437,620.

Ichikawa, Hiroshi; Kawanishi, Rokuro; and Ouchi, Yutaka, to Hitachi Cable, Ltd. Inductor for low-frequency induction furnace. 3,485,928, 12-23-69, Cl. 13-29.

Ichikawa, Mitsuo, to Amita Company Limited. High-speed netting machine. 3,446,110, 5-27-69, Cl. 87-53.

Ichikawa, Takeo: *See*—
Kaibara, Nobuhiro; Sawa, Yoshimi; Ichikawa, Takeo; Watanabe, Risaburo; and Igarashi, Osamu,3,485,223.

Ichikawa, Tatsuo: *See*—
Yasunaga, Hidetoshi; Ichikawa, Tatsuo; Yamato, Hiroaki; Ikeda, Mitsuru; Ozawa, Nobuo; and Ueda, Kenichi,3,464,965.

Ichikawa, Yasushi: *See*—
Ohfuka, Toshio; Shirode, Katsumi; and Ichikawa, Yasushi,3,432,482.

Ichikawa, Yataro; and Suzuki, Nobuo, to Teijin Limited. Process for preparation of high purity terephthalic acid. 3,431,296, 3-4-69, Cl. 260-525.

Ichikawa, Yataro; Yamashita, Gentaro; and Iwata, Kazumi, to Teijin Limited. Process for the purification and recovery of cobalt salt of aliphatic monocarboxylic acid of 2-4 carbon atoms. 3,465,013, 9-2-69, Cl. 260-439.

Ichiki, Eiichi; Ryu, Hirosuke; and Inoue, Yasuhiko, to Sumitomo Chemical Company, Ltd. Process for producing higher alkylaluminums. 3,474,122, 10-21-69, Cl. 260-561.

Ichiki, Eiichi: *See*—
Tanaka, Ryoma; Toyoshima, Kiyoshi; and Ichiki, Eiichi,3,474,121.

Ichimi, Teruhiko; Okazaki, Takeshi; Tsutsui, Nobuhiro; and Minami, Shinsaku, to Toyo Boseki Kabushiki Kaishi, and Japan Exlan Company Limited. Method for binding the filaments in an untwisted synthetic filament yarn. 3,455,771, 7-15-69, Cl. 161-89.

Ichimori, Masuo. Proximity detecting apparatus. 3,422,415, 1-14-69, Cl. 340-258.

Ichimori, Masuo; and Ishikawa, Tadayuki, to Tateisi Electronics Co. Apparatus for automatic washing of a flush lavatory. 3,462,769, 8-26-69, Cl. 4-100.

Ichinose, Noboru: *See*—
Kurihara, Kazunobu; Ichinose, Noboru; Tanno, Yoshikazu; and Yokoyama, Katsunori,3,472,779.
Kurihara, Kazunobu; Ichinose, Noboru; Yokoyama, Hirotaka; and Yokoyama, Katsunori,3,468,799.
Yokoyama, Katsunori; Ichinose, Noboru; and Tanno, Yoshikazu,3,468,800.

Ichitan Fukui: *See*—
Shiragaki, Hajime, 3,460,219.

I. C. I./Organics/Inc.: *See*—
Perrino, Albert C.; and Israel, Michael G., 3,479,408.

Icke, William M.; and Veryser, Harry C. Universal vehicle sun visor mount. 3,477,678, 11-11-69, Cl. 248-288.

Icken, Joseph M.; and Jahren, Eugene J., to International Playtex Corporation. Organo-aluminum antiperspirant compositions and antiperspirant method. 3,448,189, 6-3-69, Cl. 424-47.

Ickes-Braun Glasshouses, Inc.: *See*—
Kaiser, Ewald, 3,462,893.

Icore Industries: *See*—
Giulie, Joe D., 3,433,343.
Marsh, Benjamin H.; and Sweet, John R., III, 3,458,674.
Wilder, Leslie N., 3,455,443.
Wilder, Leslie N., 3,477,532.

Ida, Saburo: *See*—
Suzuki, Hiroshi; Hujimori, Tosio; and Ida, Saburo,3,474,611.

Idaco Company: *See*—
McGlinchey, Arthur E., 3,460,465.

Idaszak, Leo R., to Corn Products Company. Process for crystallizing dextrose. 3,440,093, 4-22-69, Cl. 127-58.

Ide, Allan R.: *See*—
Capalia, Nick N., 3,484,025.

Ide, Fumio: *See*—
Nakatsuka, Kazuo; Ide, Fumio; and Takamura, Masayoshi,3,448,070.

Ide, Kenton J.: *See*—
Frazer, John F.; Holzman, Richard; Ide, Kenton J.; and Moore, Richard K.,3,441,850.
Holzman, Richard; and Ide, Kenton J.,3,441,717.

Ide, Kenton J.; and Frazer, John F., to Signatection Inc. Wave amplitude sensing apparatus. 3,441,860, 4-29-69, Cl.

Ideal Basic Industries, Inc.: *See*—
Smith, Randal E., 3,438,745.
Smith, Randal E., 3,451,788.

Ideal Brass Works Incorporated: *See*—
Waldo, Russell W., 3,423,118.

Ideal Corporation: *See*—
Schmidt, Eugene D.; and Schaub, Erwin L., 3,456,548.

Ideal Industries, Inc.: *See*—
Glen, Michael H.; and Niemann, Juergen, 3,420,275.
James, David T.; and Krup, Donald ., 3,487,161.
Krup, Donald E., 3,483,310.
McDonald, Harrison M., 3,483,311.
McDonald, Harrison M.; and Harfst, Ernest D., 3,483,312.
Niemann, Juergen, 3,424,435.
Oehlerking, Dean, 3,440,861.
Whitehurst, Joe R., 3,426,390.
Whitehurst, Joe R., 3,426,391.
Whitehurst, Joe R., 3,443,283.

Ideal Security Hardware Corporation: *See*—
Waldo, Russell W., 3,485,066.

Ideal Toy Corporation: *See*—
Cagen, George, 3,447,259.
Cooper, Julius; and Nemeth, Henry, 3,454,278.
Cooper, Julius, 3,456,596.
Cooper, Julius, 3,481,067.
Cooper, Julius, 3,481,279.
Gardel, Robert; and Gorsky, Egon, 3,465,474.
Ieda, Michael, 3,447,257.
Lindsay, Kenneth W.; and Ensmann, Burt W., 3,425,154.
Lindsay, Kenneth W.; and Ensmann, Burt W., 3,477,728.
Nielsen, Edwin A., 3,441,270.
Nielsen, Edwin A., 3,465,744.
Sindlinger, Norman E., 3,466,050.

Ideas for Auto and Bike Specialties, Inc.: *See*—
Golden, Harry, 3,476,496.

Idelson, Elbert M., to Polaroid Corporation. Novel photographic products, processes and compositions. 3,453,107, 7-1-69, Cl. 96-29.

Idelson, Elbert M., to Polaroid Corporation. Substituted phthalocyanine dye developers and their use in multicolor diffusion transfer processes. 3,482,972, 12-9-69, Cl. 96-29.
Idex Corporation: *See*—
Helms, Thomas F., 3,464,261.
I. D. L. Incorporated: *See*—
Murray, Hugh A., 3,483,742.
Idoine, Harry E.: *See*—
Jackson, Robert E.; and Idoine, Harry E.,3,421,447.
Idoine, Leon S.; and Saxon, Richard B., to Burgess Publishing Company. Tape player reversing mechanism. 3,472,465, 10-14-69, Cl. 242-55.12
Idol, James D., Jr.: *See*—
Greene, Janice L.; Idol, James D., Jr.; and Standish, Norman W.,3,454,618.
Iduda, Isunekazu: *See*—
Hashimoto, Tsunekazu; Yamamoto, Koichi; Someya, Akira; and Iduda, Isunekazu,3,462,631.
Ieda, Michael, to Ideal Toy Corporation. Reversible steering member. 3,447,257, 6-3-69, Cl. 46-213.
Ierusalimsky, Boris Nikolaevich: *See*—
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovitch; and Khaidurov, Leonid Konstantinovich,3,467,437.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,438.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,439.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razemerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,477,301.
Iga, Atsushi: *See*—
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,492.
Yanase, Akira; Tawara, Yoshio; Iga, Atsushi; and Hirota, Hozumi,3,424,687.
Igarashi, Bunjiro: *See*—
Otani, Sugio; Fukuoka, Yoshihiko; Igarashi, Bunjiro; and Sasaki, Kesao,3,461,082.
Igarashi, Kiyoyuki: *See*—
Yoshida, Hiroshi; Okabe, Hideo; Sasaki, Kenji; Nonaka, Hiroshi; Nakagawa, Kichizaemon; and Igarashi, Kiyoyuki,3,457,984.
Igarashi, Osamu: *See*—
Kaibara, Nobuhiro; Sawa, Yoshimi; Ichikawa, Takeo; Watanabe, Risaburo; and Igarashi, Osamu,3,485,223.
Igarashi, Yoshiaki; and Kobayashi, Kazutsugu, to Western Electric Company, Incorporated. D.C. Motor control system. 3,440,511, 4-22-69, Cl. 318-269.
Igarashi, Yukio; Komatsu, Makoto; Fujiyama, Susumu; and Okamoto, Kazuo, to Japan Gas-Chemical Company, Inc. Process for producing acetone. 3,432,556, 3-11-69, Cl. 260-597.
Igarashi, Yutaro: *See*—
Uda, Shukichi; and Igarashi, Yutaro,3,475,844.
Igewa-A.G.: *See*—
Guignard, Edwin, 3,460,386.
Iglewitz, Meyer. Inflatable tubeless tire seating device with quick release. 3,480,067, 11-25-69, Cl. 157-1.21
Ignatowitz, Michael: *See*—
Benowitz, Paul; Ignatowitz, Michael; and Tutelman, David M.,3,466,397.
Ignell, Rolf Lennart: *See*—
Rausing, Anders Ruben; and Ignell, Rolf Lennart,3,468,224.
Ignell, Rolf Lennart, to Sobrefina SA. Method of and apparatus for the manufacture of objects from plastic material by pressure and/or vacuum forming operations. 3,484,518, 12-16-69, Cl. 264-297.
Ihara Chemicals Company Limited: *See*—
Kado, Masaru, 3,463,856.
Ihara, Hirofumi: *See*—
Mizutani, Yukio; and Ihara, Hirofumi,3,450,777.
Ihara, Hirohumi: *See*—
Mizutani, Yukio; Tesima, Wataru; Akiyama, Sumio; Yamane, Reiichi; and Ihara, Hirohumi,3,451,951.
Ihara, Hiroshi, to Nippon Electric Company, Limited. Digit line coupling circuitry for magnetic memory devices. 3,471,516, 10-7-69, Cl. 340-174.
Ihde, Richard C.: *See*—
Thompson, Kenneth; and Ihde, Richard C.,3,421,678.
Thompson, Kenneth; and Ihde, Richard C.,3,482,278.
Ihlenburg, Willibald H., to Ford Motor Company. Single fill battery. 3,481,793, 12-2-69, Cl. 136-178.
Ihlenfeld, Francis J.: *See*—
Vevirit, James V.; and Ihlenfeld, Francis J.,3,456,832.
Vevirit, James V.; Ihlenfeld, Francis J.; and Beil, Valentin E.,3,481,506.
Ihling Bros., Everard Co.: *See*—
Ihling, Edward L., 3,470,639.
Ihling, Edward L., to Ihling Bros., Everard Co. Lodge presentation apron. 3,470,639, 10-7-69, Cl. 40-129.
Ihreborn, Carl A. G.; and Hedenberg, Conny I. R. Cloth-covered button having an attachment eye. 3,429,011, 2-25-69, Cl. 24-113.
Ihrman, Kryn G.: *See*—
Closson, Rex D.; and Ihrman, Kryn G.,3,457,299.
Iida, Hirohiko: *See*—
Kondo, Shiro; Shiranezawa, Takao; Iida, Hirohiko; and Takahashi, Masayuki,3,482,389.
Iida, Suetoshi; Marushima, Yoshio; and Hasebe, Nobuyasu, to Tokyo Gas Kabushiki Kaisha. Method for the removal of hydrogen sulfide in the air of waste gas. 3,459,495, 8-5-69, Cl. 23-2.
Iida, Takahiko; Nobata, Akio; Harasaki, Minoru; and Kumazawa, Hirashi, to Mitsubishi Denki Kabushiki Kaisha. Automatic bread toaster. 3,431,400, 3-4-69, Cl. 219-501.
Iida, Yoshio: *See*—
Nishimoto, Kazuyuki; and Iida, Yoshio,3,433,749.
Nishimoto, Kazuyuki; and Iida, Yoshio,3,451,830.
Iijima, Hajime: *See*—
Uemura, Saburo; and Iijima, Hajime,3,456,143.
Iijima, Tetsuya, to Nissan Jidosha Kabushiki Kaisha. Hydraulic control system for automatic transmission. 3,453,908, 7-8-69, Cl. 74-867.
Iio, Katsumi: *See*—
Lanaka, Tomoharu; Miyamae, Masao; Takayama, Shinichi; Iio, Katsumi; Komatsubara, Tomomitsu; and Soma, Takeshi,3,424,729.
Iio, Kenji: *See*—
Takechi, Saburo; and Iio, Kenji,3,436,649.
IIT Research Institute: *See*—
Cameron, Scott H.; and Liveright, Michael A., 3,449,516.
Camras, Marvin, 3,429,995.
Camras, Marvin, 3,449,528.
Camras, Marvin, 3,449,529.
Camras, Marvin, 3,469,037.
Camras, Marvin, 3,484,546.
Cornish, Rodney H.; and Finlayson, Lawrence A., 3,476,281.
Gordon, Ernest S.; Schwab, Ronald B.; and Thunberg, Leander O., 3,425,415.
Hill, Vernon L.; Rausch, John J.; Hess, Alan L.; Van Thyne, Ray J.; and Nichols, Harry R., 3,446,615.
Kacmarek, Andrew J.; and Solomon, Irvine J., 3,421,861.
McGee, Sherwood W.; and Zoiss, Melvin H., 3,440,708.
Iizuka, Tetsuo, to Tokyo Juki Kogyo Kabushiki Kaisha. Method and apparatus for treating cloth-end threads in a sewing machine. 3,465,702, 9-9-69, Cl. 112-252.
Iizuka, Yasuhiro: *See*—
Nakahara, Masataka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro,3,477,998.
Nakahara, Mastaka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro,3,436,406.
Ikari, Eiichi: *See*—
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.
Ikari, Kyoichiro: *See*—
Imoto, Saburo; Ikari, Kyoichiro; and Hattori, Tatsuaki,3,476,582.
Sezaki, Juniti; Hattori, Tatsuaki; Ikari, Kyoichiro; and Imoto, Saburo,3,442,848.
Ikari, Shinichi: Lead storage battery containing a sulfonic acid substituted naphthalene/formaldehyde condensation product. 3,481,785, 12-2-69, Cl. 136-26.
Ike, Ernest C., to Wiz Corporation. Vehicle brake operator. 3,431,031, 3-4-69, Cl. 303-9.
Ikeda, Carol K.; and Sorenson, Ben E., to Du Pont de Nemours, E. I., and Company. Spirocyclic peroxygen compounds. 3,471,517, 10-7-69, Cl. 260-340.7
Ikeda, Hideo. Band provided with a buckle for loose and tight fastening. 3,422,507, 1-21-69, Cl. 24-265.
Ikeda, Hiroshi: *See*—
Yamanaka, Takashi; Kamino, Tadashi; and Ikeda, Hiroshi,3,461,309.
Ikeda, Koichi; and Minagawa, Katsuji, to Nippon Electric Company Limited. Low melting point devitrified glass and method. 3,425,817, 2-4-69, Cl. 65-33.
Ikeda, Koichi; Minagawa, Katsuji; and Nakagawa, Toru, to Nippon Electric Company Limited. Oxide coating for semiconductor surfaces. 3,462,298, 8-19-69, Cl. 117-201.
Ikeda, Koichi; Tsuji, Shigeru; Anazawa, Shinzo; and Koyama, Tsukasa, to Nippon Electric Company Limited. Low melting glass. 3,420,683, 1-7-69, Cl. 106-47.

Ikeda, Koichi: *See—*
Yamamoto, Hiroshi; and Ikeda, Koichi,3,442,993.
Yamamoto, Hiroshi; Ikeda, Koichi; and Minagawa, Katsuji,3,468,752.
Ikeda, Kojyuro: *See—*
Yoda, Naoya; Nakanishi, Ryoji; Kubota, Takashi; Kurihara, Masaru; and Ikeda, Kojyuro,3,468,851.
Ikeda, Megumi: *See—*
Tsuzimoto, Hideyuki; and Ikeda, Megumi,3,469,293.
Ikeda, Minoru: *See—*
Takizawa, Yu; Ikeda, Minoru; and Tojima, Shoji,3,474,520.
Ikeda, Minoru, to France Bed Co., Ltd. Bed. 3,430,274, 3-4-69, Cl. 5-181.
Ikeda, Mitsuru: *See—*
Yasunaga, Hidetoshi; Ichikawa, Tatsuo; Yamato, Hiroaki; Ikeda, Mitsuru; Ozawa, Nobuo; and Ueda, Kenichi,3,464,965.
Ikeda, Osamu; Ayaki, Kazuo; and Ohya, Haruhiko, to Showa Denko Kabushiki Kaisha. Process for continuous recovery of dicyanobenzenes. 3,472,891, 10-14-69, Cl. 260-465.
Ikeda, Takahide: *See—*
Miwa, Ichiro; and Ikeda, Takahide,3,471,793.
Ikeda, Takashi: *See—*
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,435,067.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,439,020.
Ikeda, Takeshi: *See—*
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; and Ikeda, Takeshi,3,431,336.
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; Ikeda, Takeshi; Nakajima, Eizo; and Kobatake, Takashi,3,452,129.
Ikeda, Teppei: *See—*
Kimura, Shiro; Ikeda, Teppei; Yamagishi, Kikuo; and Kobayashi, Teruo,3,475,173.
Ohi, Reiichi; Ikeda, Teppei; and Hibino, Choji,3,433,638.
Takenaka, Haruo; Ooba, Seichi; Ikeda, Teppei; and Adachihara, Shynich,3,475,193.
Ikeda, Toshimichi: *See—*
Kimura, Jun; Kudoh, Hiroshi; and Ikeda, Toshimichi,3,473,632.
Ikeda, Tsugio: *See—*
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi,3,459,538.
Ikeda, Yoshiaki. Golf club having level indicating means and weight means. 3,429,576, 2-25-69, Cl. 273-162.
Ikeda, Yutaka; Hoshino, Mashiro; and Kuroki, Hayashi, to New Nippon Electric Company Limited. Method of making glass capacitors. 3,457,615, 7-29-69, Cl. 29-25.42
Ikee, Eitoku: *See—*
Asami, Atsumi; Ikee, Eitoku; Nakashima, Eizo; and Takata, Hirokichi,3,430,428.
Ikegai Tekko Kabushiki Kaisha and Kabushiki Kaisha: *See—*
Kawai, Katsumi; Suzuki, Gohei; and Kitamura, Yoshito, 3,429,240.
Ikegami, Kazutoshi: *See—*
Futaki, Hisao; and Ikegami, Kazutoshi,3,466,465.
Ikegami, Shigeru: *See—*
Yamada, Kozo; Saji, Yasuo; Yamamoto, Ichiro; and Ikegami, Shigeru,3,485,913.
Ikegami, Yoshihiko: *See—*
Negoro, Harutada; Awada, Etsuo; Ikegami, Yoshihiko; Akagi, Saburo; and Matsui, Katsuaki,3,477,995.
Ikeguchi, Takeru: *See—*
Yamamoto, Yoshihiro; Yoshihara, Mitsuo; Ikeguchi, Takeru; and Sonoda, Sanenobu,3,476,702.
Ikels, Kenneth G.: *See—*
Neville, James R.; and Ikels, Kenneth G.,3,451,255.
Ikemoto, Kenji: *See—*
Umeda, Haruhiko; Ikemoto, Kenji; and Suzuki, Mitsuaki,3,437,187.
Iken, Horst; and Schrage, Manfred, to Messer Griesheim GmbH. Process for producing cement and similar materials. 3,441,634, 4-29-69, Cl. 263-53.
Iketani, Kazuo. Print die mounting means in automatic pressure-marking machines. 3,422,752, 1-21-69, Cl. 101-22.
IKL Incorporated: *See—*
Inshaw, Guy E., 3,482,321.
Ikner, Jimmie Ray. Heated wiper blade. 3,461,477, 8-19-69, Cl. 15-250.06
Ikor, Incorporated: *See—*
Gove, Donald C., 3,443,555.
Proud, Joseph M., Jr., 3,484,619.
Ilardo, Charles S.: *See—*
Hindersinn, Raymond R.; and Ilardo, Charles S.,3,449,279.
Ilardo, Charles S.; and Hindersinn, Raymond R., to Hooker Chemical Corporation. Fire retardant bituminous compositions. 3,433,654, 3-18-69, Cl. 106-15.
ILC Industries, Inc.: *See—*
Durney, George P., 3,432,860.
Redden, Robert J., 3,426,397.
Ilco Corporation: *See—*
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J., 3,457,831.
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J., 3,457,832.
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J., 3,469,498.
Basseches, Mark T., 3,455,130.
Forbes, John P.; and Godin, Raphael W., 3,455,129.
Iler, Ralph K., to Du Pont de Nemours, E. I., and Company. Isostatic hot pressing of metal-bonded metal carbide bodies. 3,469,976, 9-30-69, Cl. 75-204.
Iler, Ralph K., to Du Pont de Nemours, E. I., and Company. Plural monolayer coated article and process of making. 3,485,658, 12-23-69, Cl. 117-69.
Iles, Anthony J.: *See—*
Shuffrey, Anthony L.; and Iles, Anthony J.,3,458,965.
Iles, Pamela L.: *See—*
Shaheen, Joseph M.; and Iles, Pamela L.,3,471,348.
Iles, Peter A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,437,527.
Iles, Peter Albert, to Globe-Union Inc., mesne. Process for manufacturing inexpensive semiconductor devices. 3,471,924, 10-14-69, Cl. 29-572.
Ilford Limited: *See—*
Calder, William John, 3,465,663.
Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William, 3,431,110.
Ficken, Geoffrey Ernest, 3,460,947.
Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William, 3,463,640.
Harris, Albert Edward; and Tolhurst, Frank R., 3,447,942.
Neale, Denis M., 3,447,871.
Neale, Denis Manktelow; and Smith, Leslie John George, 3,455,632.
Ilg, Ambrose John, to Roush, David P. Refrigerated housing. 3,438,149, 4-15-69, Cl. 49-176.
Ilikon Corporation: *See—*
Bonis, Laszlo J.; and Grierson, Robert, 3,460,971.
Britten, George C., 3,426,108.
Ilinskaya, Tamara Nikolaevna; Kuzovkov, Alexandr Dmitrievich; Vichkanova, Serafima Alexandrovna; Rubinchik, Mira Abramovna; Tolstykh, Ljudmila Petrovna; and Aleshkina, Yanina Adolfovna. Method of producing an alkaloid from Nuphar luteum. 3,464,975, 9-2-69, Cl. 260-236.
Ilkka, Gust A.; and Slates, Robert V., to General Motors Corporation. Latent curing agents for epoxide polymers and polyurethanes. 3,426,097, 2-4-69, Cl. 260-830.
Illenberger, Karl, to Siemens Aktiengesellschaft. Coincident memory device with no separate inhibit or sensing line. 3,483,536, 12-9-69, Cl. 340-174.
Illg, Walter; and Eichenbrenner, Fred F., to United States of America, National Aeronautics and Space Administration. Light shield and infrared reflector for fatigue testing. 3,472,060, 10-14-69, Cl. 73-15.6
Illgen, Werner E.; and Stoffregen, Karlheinz, to Schmalbach, J. A., AG. Apparatus for feeding and mounting elastic rings on container bodies. 3,460,231, 8-12-69, Cl. 29-208.
Illia, Oliver C.: *See—*
Holm, William Z.; Clegg, Douglas; and Illia, Oliver C.,3,448,725.
Illingworth, Lewis, to Digital Equipment Corporation. Current driver with overload protection. 3,484,708, 12-16-69, Cl. 330-11.
Illingworth, Robert H., to Evening News Publishing Company, mesne. Method of de-inking with a non-ionic detergent. 3,446,696, 5-27-69, Cl. 162-5.
Illinois Adhesive Products Company: *See—*
Potter, Charles E.; and Chamberlain, Paul E., 3,423,107.
Illinois Creamery Supply Co.: *See—*
Mistarz, Robert J., 3,486,423.
Illinois Lock Company: *See—*
Wolniak, Stanley C., 3,438,227.
Illinois Railway Equipment Company: *See—*
Nadherny, Rudolph E., 3,422,964.
Nadherny, Rudolph E., 3,424,415.
Illinois Stoker Company: *See—*
Simpson, Frank S., 3,473,493.
Illinois Tool Works Inc.: *See—*
Beart, Robert W., 3,463,535.
Cunningham, Ernest R., 3,466,096.
Edwards, Bryant, 3,441,173.
Edwards, Bryant, 3,442,420.
Edwards, Bryant, 3,443,714.
Edwards, Bryant, 3,443,715.
Edwards, Bryant, 3,454,987.
Edwards, Bryant, 3,455,484.
Edwards, Bryant, 3,464,587.
Edwards, Bryant, 3,465,071.
Edwards, Bryant, 3,471,055.

Fabish, Edward F., 3,483,605.
Fisher, Julian V., 3,423,055.
Fisher, Julian V., 3,443,783.
Fisher, Julian V., 3,463,427.
Fisher, Julian V., 3,469,493.
Gruca, Ned Joseph, 3,478,639.
Gutshall, Charles E., 3,426,385.
Gutshall, Charles Edward, 3,438,299.
Janninck, William L., 3,456,860.
Koepke, John A., 3,465,271.
Krol, Harry J.; and Ryder, Francis E., 3,425,023.
Lanius, James C., Jr., 3,422,869.
Meehan, Clarence L., 3,463,522.
Melone, Robert Richard, 3,454,186.
Melone, Robert Richard, 3,456,218.
Moore, Norman H.; and Poupitch, Ougljesa Jules, 3,434,592.
Nelson, John F., 3,470,893.
Nelson, John F., 3,486,202.
Pomernacki, Henry, 3,422,472.
Poupitch, Ougljesa Jules, 3,426,394.
Poupitch, Ougljesa Jules, 3,480,136.
Prescott, Arthur W., 3,463,045.
Rapata, George M., 3,424,004.
Rapata, George M., 3,430,673.
Rapata, George Martin, 3,485,133.
Rayburn, Carles C., 3,427,572.
Ryder, Francis E., 3,421,187.
Ryder, Francis E., 3,432,111.
Ryder, Francis E., 3,439,310.
Ryder, Francis E., 3,465,557.
Ryder, Francis Eugene, 3,455,201.
Soltysik, Edmund J.; and Ryder, Francis E., 3,421,135.
Soltysik, Edmund J., 3,430,904.
Soltysik, Edmund J.; and Ryder, Francis E., 3,486,158.
Soltysik, Edmund John, 3,444,596.
Stockdale, William D., 3,443,741.
Wallace, Clarence L., Jr., 3,478,343.
Wanderer, Herbert Jourdan, 3,443,685.

Illis, Alexander; and Manson, Alan, to International Nickel Company, Inc., The. Removal of impurities from nickel sulfide. 3,466,167, 9-9-69, Cl. 75-1.

Illsley, Rolf F.; Thelen, Alfred J.; and Apfel, Joseph H., to Optical Coating Laboratory, Inc. Circular variable filter. 3,442,572, 5-6-69, Cl. 350-166.

Illuminating Building, the: *See—*
Holloway, Robert L., 3,480,033.

Ilma Industria Lavorazioni Metalli Antiacidi S.A.S.: *See—*
Drago, Leo, 3,457,029.

Ilma-Industria Lavorazioni Metalli Antiacidi S.A.S.: *See—*
Drago, Leo, 3,466,899.

Ilnyckyj, Stephan; and MacDonald, John M., to Esso Research and Engineering Company. Process for preparing drying resins from steam- cracked naphtha. 3,444,259, 5-13-69, Cl. 260-680.

Iltis, Rumult, to McGraw-Edison Company. Control system for a folding machine. 3,485,492, 12-23-69, Cl. 270-84.

Ilvespaa, Atso, to Ciba Corporation. Thiomorpholine derivatives containing a 5- nitrothiazolyl-(2) radical in 4-position. 3,464,984, 9-2-69, Cl. 260-243.

Im, Samuel S.: *See—*
Castrucci, Paul P.; and Im, Samuel S.,3,447,984.

Im, Samuel S., to International Business Machines Corporation. Tunnel diode devices. 3,475,071, 10-28-69, Cl. 317-234.

Imabayashi, Mamoru; and Ohshima, Shichiro. Method of chemically bonding aluminium or aluminum alloys to ferrous alloys. 3,480,465, 11-25-69, Cl. 117-71.

Imagic Limited: *See—*
Games, Abraham, 3,463,654.

Imagineering Unlimited, Inc.: *See—*
Laas, Robert F., 3,482,739.

Imahashi, Issei: *See—*
Matsuzawa, Masanao; Imahashi, Issei; and Nakamura, Koichi,3,435,311.

Imai, Hirosuke: *See—*
Miyoshi, Mitsuji; Imai, Hirosuke; Otsuki, Yutaka; and Hara, Hajime,3,483,176.

Imai, Kazutami; Tano, Tatsuo; and Noro, Hiroo, to Tomoji Murata. Process of recovering manganese from manganese ores. 3,433,629, 3-18-69, Cl. 75-101.

Imai, Kin-Ichi: *See—*
Honjo, Mikio; and Imai, Kin-Ichi,3,433,783.
Honjo, Mikio; Imai, Kin-Ichi; and Furukawa, Yoshiyasu,3,444,158.
Honjo, Mikio; Masuda, Toru; Imai, Kinichi; Fujii, Shoichiro; and Takanohashi, Kunio,3,423,399.

Imai, Masatake: *See—*
Ohashi, Tamotsu; Masuda, Kotaro; Imai, Masatake; and Morishima, Takeshi,3,459,557.

Imai, Orio; Usuba, Yoshiro; and Ito, Shozo, to Mifuji Iron Works Co., Ltd. High speed continuous method and apparatus for carbonization and activation of organic material. 3,446,493, 5-27-69, Cl. 263-36.

Imai, Teruhiro: *See—*
Hamada, Yoshitsugu; Imai, Teruhiro; Maeda, Yukio; and Tsuchii, Kimitaka,3,485,219.

Imaizumi, Ichiro, to Hitachi, Ltd. Semiconductor integrated circuit device. 3,449,643, 6-10-69, Cl. 317-235.

Imamiya, Hitoshi; Katayama, Shizuo; Matsukawa, Hiroharu; Kobayashi, Teruo; and Ishige, Sadao, to Fuji Shashin Film Kabushiki Kaisha. Pressure-sensitive copying paper. 3,463,655, 8-26-69, Cl. 117-36.2

Imamiya, Hitoshi: *See—*
Mishima, Shizuo; Katayama, Shizuo; and Imamiya, Hitoshi,3,447,945.

Imamura, Akira: *See—*
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi,3,426,904.

Imamura, Shinzo: *See—*
Tsuji, Jiro; Kiji, Jitsuo; Morikawa, Masanobu; and Imamura, Shinzo,3,427,344.

Imarisio, Giancarlo, to European Atomic Energy Community (Euratom). Method of producing alloys of zirconium with iron, vanadium and chromium for use in nuclear reactors cooled with an organic coolant. 3,427,210, 2-11-69, Cl. 148-2.

Imboden, Walter H., to North American Rockwell Corporation. Yarn control means for circular knitting machines. 3,438,225, 4-15-69, Cl. 66-125.

Imboden, Walter H.: *See—*
Hill, Leroy D.; Imboden, Walter H.; and Riehl, Melvin E.,3,439,513.

IMC Magnetics Corp.: *See—*
Morreale, Anthony P.; and Summers, Zdzislaw R., 3,428,837.

Imco Container Company: *See—*
Croyle, Jack V., 3,467,288.
Goble, Ralph W., 3,438,493.

Imes, George C. Fluid pressure recorder. 3,427,630, 2-11-69, Cl. 346-36.

Imes, Vernon W.: *See—*
Breon, Pearl L.; Imes, Vernon W.; Johnson, Harold R.; Nutter, James M.; and Nutter, James M.,3,478,833.

Imgrund, Heinrich, to Tarex S.A. Automatic lathe. 3,427,905, 2-18-69, Cl. 82-14.

Imhof, Herman A., to USM Corporation. Automatic edge trimmers. 3,435,474, 4-1-69, Cl. 12-89.

Imhof, Lawrence G., to Union Carbide Corporation. Curable carboxyl-containing olefin polymer compositions. 3,427,280, 2-11-69, Cl. 260-41.

Imhof, Lawrence G.: *See—*
Mitchell, Philip A.; Martino, Carlo F.; and Imhof, Lawrence G.,3,438,931.
Purcell, Chester L.; and Imhof, Lawrence G.,3,423,212.

Imhoff, Lee A., to New Frontier Corporation. Vehicles for travelling over various types of terrain. 3,435,907, 4-1-69, Cl. 180-5.

Imjanitov, Naum Oolomonovich: *See—*
Rudkovsky, David Moiseevich; and Imjanitov, Naum Oolomonovich,3,462,481.

Imjanitov, Naum Solomovich: *See—*
Rudkovsky, David Moiseevich; and Imjanitov, Naum Solomovich,3,481,975.

Immanuel Maier: *See—*
Hahn, Otto, 3,459,470.

Immco Tools, Inc.: *See—*
Kushmuk, Walter P.; and Bogaerts, Leo C., 3,483,757.

Immel, Richard H.: *See—*
Galizia, Eugene V.; and Immel, Richard H.,3,424,827.

Immel, Richard H.; and Nelson, Paul, to Sinclair-Koppers Company. Expandable polymers. 3,444,104, 5-13-69, Cl. 260-2.5

Immermann, Milton; Vanderhyde, Harold J.; and Woods, George H., to Lilly, Eli, and Company. Pill dispenser with indicating means. 3,454,152, 7-8-69, Cl. 206-42.

Immethun, Peter A.: *See—*
Wright, William E.; and Immethun, Peter A.,3,484,386.

Imming, Cornell A., to Car-Mon Products, Inc. Overhead stored exhaust for carrying off monoxide gas or other fumes. 3,473,462, 10-21-69, Cl. 98-43.

Imoto, Saburo; Ikari, Kyoichiro; and Hattori, Tatsuaki, to Kurashiki Rayon Co., Ltd. Method of improving the water resistance of paper. 3,476,582, 11-4-69, Cl. 117-62.2

Imoto, Saburo; and Ohara, Osamu, to Kurashiki Rayon Co., Ltd. Formaldehyde polymers plasticized with vinyl ester polymers. 3,457,211, 7-22-69, Cl. 260-31.2

Imoto, Saburo: *See—*
Sezaki, Juniti; Hattori, Tatsuaki; Ikari, Kyoichiro; and Imoto, Saburo,3,442,848.

Impact Casting Co., Inc.: *See—*
Goetz, George W.; and Weinstein, Norman W., 3,435,880.
Goetz, George W.; and Weinstein, Norman W., 3,476,172.

Impact Container Corporation: *See—*
Daniels, Albert E., 3,428,570.
Daniels, Albert E., 3,452,906.
Miserentino, Charles Orlando; Peebles, Ronald William; and Rockwell, Dean Milton, 3,483,053.
Rockwell, Dean M., 3,480,183.

Impact Plastics, Incorporated: *See*—
Murray, Coyt E., 3,422,862.

Imperato, Louis George, to Blocked Iron Corporation. Method of making ore agglomerates. 3,437,474, 4-8-69, Cl. 75-3.

Imperial Camera Corp.: *See*—
Irwin, George, 3,431,542.

Imperial Chemical Industries Limited: *See*—
Aitken, Roxburgh Richmond; and Marklow, Raymond Joseph, 3,446,848.
Aldred, Derek Harry; and Edington, Robert Alexander, 3,476,701.
Anderson, George de Winter; and Pemberton, Denis, 3,463,806.
Andrew, Herbert Francis, 3,424,738.
Andrew, Herbert Francis, 3,446,790.
Andrew, Herbert Francis; and Kenyon, Ronald Wynford, 3,484,430.
Andrew, William Stewart Kerr, 3,463,085.
Ashworth, Gordon; and Dunlop, John, 3,420,923.
Attfield, Donald J.; and Wilkes, William W., 3,438,087.
Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William, 3,433,774.
Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William, 3,466,182.
Bamford, William Randall; and Cuthill, James Caithness, 3,464,937.
Barben, Ian Knowles; and Eckersley, Dennis, 3,427,308.
Barben, Ian Knowles, 3,455,897.
Barben, Ian Kowles; and Eckersley, Dennis, 3,484,432.
Barrett, Keith Edwin James, 3,425,975.
Barrie, Ian Torrance; and Nield, Eric, 3,426,228.
Bell, William Hamilton; Rennie, Robert Allan Campbell; and Sampson, Roy John, 3,458,520.
Bell, William Hamilton; and Dewing, John, 3,463,781.
Bennett, George Arthur; Berrie, Alistair Howard; and Windle, Raymond, 3,421,829.
Bentley, Roy; and Craig, John, 3,445,265.
Bentley, Roy; and Craig, John, 3,463,660.
Biggon, Robert Muir; and Pierpoint, Edward Keith, 3,445,418.
Birchall, James Derek, 3,484,372.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew, 3,451,209.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; and Hooper Clive Williams, 3,452,533.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew, 3,452,534.
Bligh, Bernard Ramsay, 3,474,636.
Bloom, Martin S.; and Riley, Albert Edward, 3,449,145.
Bloom, Martin S., 3,449,879.
Blues, Ernest Thomson, 3,477,922.
Bond, Peter Anthony; and Howe, Ralph, 3,463,808.
Bowie, Raymond Alexander; Grant, Mervyn Stuart; and Jones, William Glynne Moss, 3,463,779.
Bowman, Francis; Cooper, Albert Charles; and Irving, Francis, 3,424,708.
Briggs, Peter James; and Hurlick, Ronald James, 3,459,703.
Britton, Harold George; and Hague, Billy, 3,475,012.
Broome, Arthur William James; Crossley, Neville Stanton; and Jones, William Glynne, 3,466,370.
Brown, Harold Frederick, 3,452,411.
Brown, Joseph Horsefield; and Kopsch, Ulrich Carl Werner, 3,444,252.
Brown, Joseph Horsefield, 3,453,340.
Brown, Martin Granger, 3,432,318.
Burgess, John Llewellyn; Daniels, Barrie; and Whale, William Edward, 3,462,811.
Campbell, Alastair; and Roberts, Hugh Leithead, 3,478,034.
Campbell, John Stewart, 3,433,582.
Candlin, John Paton; and Janes, William Henry, 3,436,431.
Carnell, Peter John Herbert; Skinner, Wilfrid Jesse; and Spencer, Michael Staines, 3,445,354.
Carson, Samuel Corbett, 3,464,787.
Carson, Samuel Corbett, 3,484,494.
Carson, Samuel Corbett; and Morris, George Oswald, 3,484,495.
Carter, Stephen Barnaby, 3,445,152.
Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen, 3,458,273.
Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen, 3,476,504.
Chapman, James; and Horner, David Christopher, 3,426,009.
Chilvers, Kenneth William; and Trappe, Gordon, 3,428,609.
Chuffart, Robert Charles Henri, 3,454,660.
Claridge, Dennis Victor, 3,453,299.
Clark, Duncan; and Hayden, Percy, 3,420,880.
Cleland, David Blackhall, 3,446,047.
Coffey, Robert Stevenson, 3,458,547.
Colchester, John Edward, 3,461,127.
Colchester, John Edward; and Entwisle, John Hubert, 3,461,128.
Colchester, John Edward; Entwisle, John Hubert; and Green, Maurice Berkeley, 3,464,981.
Colchester, John Edward; and Entwisle, John Hubert, 3,478,042.
Colchester, John Edward; and Entwisle, John Hubert, 3,484,447.
Connolly, James Massey; and Lowery, Christopher John, 3,459,512.
Cooke, Brian Alfred; and Gourlay, George, 3,433,755.
Corbett, William Michael; and Harrison, David, 3,459,590.
Cornforth, David Arthur; Waddan, Dhafir Yusuf; and Williams, Derek, 3,484,475.
Cottam, Ronald Geoffrey; and Topham, Alan Roger, 3,464,911.
Crowdy, Stephen Henry; Farrington, John Alan; and Jeater, Roger Sidney Lockington, 3,449,110.
Cuthill, James Caithness; and Thompson, James Mc Allan Cormack, 3,440,191.
Daniels, Barrie; and Whale, William Edward, 3,468,118.
Davies, Phineas, 3,421,871.
Davies, Phineas; and Hughes, David Owen, 3,432,443.
Davies, Trevor; East, Anthony Julian; and Mc Creath, Michael King, 3,432,467.
Deans, David Robert, 3,428,290.
Delves, Allan Kenneth; East, Anthony Julian; McCreath, Michael King; and Roberts, John Francis Lloyd, 3,471,446.
Dickinson, John David; Fowkes, Francis Samuel; and Rose, Trevor James, 3,428,576.
Dinwoodie, Andrew Harper; Fort, Godfrey; and Parker, James Brown, 3,431,261.
Doyle, Peter; Swain, Geoffrey; and Wylie, Alastair Graham, 3,463,784.
Doyle, Peter; and Wylie, Alastair Graham, 3,478,047.
Dransfield, Philip Brook; and Olleveant, Allan William, 3,467,664.
Duncanson, Leonard Andrew; and Ehrlich, Hans Werner Walter, 3,459,796.
Dunning, Robert William; Joshi, Kamalakant Krishnarao; Oldham, Alan Roger; and Willott, Michael Christopher Kenneth, 3,463,830.
Duxbury, Frederick Keith; Garforth, John David; and Mc Neeney, Peter, 3,468,975.
Eaton, David Crawford; and Haggis, Geoffrey Arthur, 3,462,381.
Eckersley, Dennis; and Stephen, William Elliot, 3,426,018.
Edgar, Owen Burchell, 3,458,470.
Edwards, Harry; and Kenyon, Charles Frederick, 3,431,081.
Edwards, Harry; and Wooler, Alan Metcalf, 3,453,168.
Elson, George Wynne; Howe, Ralph; and Jones, Derrick Fleet, 3,483,083.
Elsworth, James Edward, 3,445,961.
Fanshawe, Ralph Santorre, 3,462,478.
Farkas, Ferenc Karoly; Walbridge, Derek John; and Foot, John Rodney, 3,433,753.
Ferguson, Ian; Hall, Robert Arthur; and Park, Joseph, 3,458,458.
Fishwick, Brian Ribbons; and Liu, Andrew Tze-Chiu, 3,445,454.
Foster, Edward Graham; and Bloom, Martin S., 3,454,688.
Foster, Reginald Thomas; and Taylor, John Heyward, 3,440,236.
Gabbitus, Derek; Stephens, Allan; Brebner, James; and Lee, Anthony Michael, 3,430,427.
Galt, Ronald Hilson Begg, 3,479,354.
Gamlen, George Albert; and Ibbotson, Arthur, 3,448,140.
Gamlen, George Albert; and Ibbotson, Arthur, 3,454,620.
Gardner, Cyril; Prescott, John Fraser; and Randal, George Arthur, 3,428,690.
Gazzard, Edward George; and Greenshields, James Nairn, 3,431,283.
Gazzard, Edward George; and Greenshields, James Nairn, 3,441,561.
Ghosh, Ranajit; and Bishop, Nigel Douglas, 3,464,986.
Gilman, David John, 3,470,301.
Glen, William; and West, Kenneth, 3,448,573.
Goodings, Eric Paul; and Allen, John Graham, 3,448,177.
Goodman, Isaac; and Hurworth, Neville Robert, 3,475,385.
Gourlay, George, 3,471,567.
Gow, Robert Stewart, 3,455,749.
Gow, Robert Stewart, 3,466,204.
Greenshields, James Nairn; Langley, Bernard William; Vickers, Edward Jervis; Walpole, Arthur Leonard; and Williams, Michael Henry Currer, 3,424,846.
Griffin, Brian Philip, 3,450,796.
Griffin, Brian Philip, 3,458,603.
Griffiths, Geoffrey; and Parsons, Brian Neville, 3,474,084.
Hackett, Clarence Bertram; Kelly, Patrick McAvoy; and MacGilchrist, John, 3,453,156.
Haggis, Geoffrey Arthur, 3,420,800.
Harrell, Patrick Harwood; and Lemin, Denis Ronald, 3,469,930.
Harrogate, Nigel Blythe, 3,486,208.
Harvey, Edwin Dennis; and Vellins, Cyril Eric, 3,446,817.

Haworth, Ernest; and Minford, John Norman, 3,471,452.
Hayden, Percy, 3,458,532.
Hayden, Percy; and Charlton, John, 3,459,707.
Hayman, Nigel Ward, 3,456,435.
Holland, Frank Stanley; Marsden, John Henry Edgar; and Pemberton, Denis, 3,458,559.
Hooper, George Wallace, 3,445,526.
Horwood, John Maurice; Gunter, Allen; and Fry, Albert John, 3,428,269.
Howarth, John Joseph; and Stanier, Harold Meredith, 3,459,951.
Howe, Ralph, 3,432,545.
Hurlock, Ronald James; Wood, Leonard; and Sharma, Vijay Ratna, 3,483,239.
Inglefield, Samuel, 3,459,333.
Jack, James; Stuart, Ronald Sangster; and Plumb, John Beckett, 3,478,075.
Jackson, John Brian; Sherliker, Francis Raymond; and Long, Hamish Arthur, 3,479,318.
Johnson, Bryan Kingsley; and Davies, Stanley, 3,487,142.
Jones, Alan Conway, 3,451,208.
Jones, David Colin, 3,455,986.
Jones, Gwilym Thomas; Moyse, James Albert; and Scott, Gerald, 3,455,734.
Keats, George Harold; and Tinker, Barrie, 3,447,943.
Kelly, Patrick McAvoy; and Patton, Robert, 3,474,123.
Kerrigan, Vincent; Trappe, Gordon; and Williamson, William Ian, 3,454,533.
King, Peter Patrick; and Potter, John Reginald, 3,458,289.
Kingham, Keith John, 3,471,996.
Kingston, Derek, 3,472,608.
Lambert, Arthur; and Pemberton, Denis, 3,446,836.
Lambert, Arthur; Makinson, George Kenneth; and Hill, Arthur, 3,466,318.
Langrish, John; and Perry, Philip David, 3,429,837.
Larson, John Eric, 3,454,653.
Le Count, David James; and Reid, James Angus Wilson, 3,463,825.
Levy, Winifred Jane; Newport, John Prescott; and Reynolds, Reginald John William, 3,432,430.
Littlehailes, John David; and Clarke, John Robin Paul, 3,459,784.
Marklow, Raymond Joseph, 3,459,671.
Marlborough, Alan Michael John; and Waldie, Arthur Gordon, 3,483,593.
Marrable, Christopher David, 3,435,062.
Marrable, Christopher David, 3,483,218.
Martin, Ernest Norman, 3,465,768.
Massam, Joseph Paul; and Seaman, David, 3,437,503.
Maytum, Derek Laurie; and Eggerstedt, Karl Heinz, 3,481,540.
McIntyre, James Eric; Robertson, Michael Mundie; and Horsfall, Geoffrey Alan, 3,473,956.
Mead, David Geoffrey, 3,480,682.
Mehta, Parvez Naoroji, 3,462,938.
Mitchell, John; and Topham, Arthur, 3,446,641.
Moyse, James Albert; and Sagar, Harold, 3,433,666.
Ness, Norman Morin; Palluel, Auguste Louis Lucien; and Cook, Clive Douglas, 3,434,951.
Newton, Archie; and Brangwin, Frank, 3,446,853.
Nicholas, Andrew John; and Twitchett, Harry James, 3,465,021.
Nield, Eric, 3,431,276.
Nield, Eric, 3,480,598.
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian, 3,457,274.
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian, 3,464,891.
O'Brien, Stephen; Janes, William Henry; Taylor, Keith Andrew; and Todd, Peter Frank, 3,436,383.
O'Mant, Derrick Michael, 3,470,195.
Oldham, Joseph, 3,465,060.
Palmer, Rex Percival, 3,458,604.
Parr, William G.; and Hudgell, Alfred W. D., 3,457,342.
Parsey, Michael Richard; Thompson, Edward; and Walker, Eric, 3,420,050.
Patterson, Edward Mervyn, 3,430,566.
Patton, Robert; and Pierpoint, Edward Keith, 3,439,014.
Perrins, Lyle Eugene; Dawson, Fred; and White, Henry George, 3,468,828.
Phillips, David Meredith, 3,450,371.
Plumb, John Beckett; and Stuart, Ronald Sangster, 3,470,226.
Porter, Kenneth, 3,480,587.
Pounder, Alan; and Sykens, William Frederick, 3,467,701.
Pryer, Walter Reading, 3,446,765.
Ray, Neil Hunter, 3,445,208.
Ray, Neil Hunter; and Doran, Peter, 3,463,804.
Ray, Neil Hunter; and Webster, Samuel John, 3,484,224.
Riley, Jack Lendymore, 3,439,082.
Roberts, Hugh Leithead; and Hooper, George Wallace, 3,471,566.
Robertson, Michael Mundie; and Horsfall, Geoffrey Alan, 3,464,947.
Robertson, Michael Mundie; and Horsfall, Geoffrey Alan, 3,479,212.
Robinson, Thomas Alexander, 3,449,392.
Roebuck, Alan, 3,435,606.
Sandiford, Denis James Henry; and Kail, John Alan Elliott, 3,470,274.
Scobie, David C. H.; and Scott, James Anderson, 3,463,979.
Selwa, Tadeusz Ryszard, 3,476,660.
Shaw, John Peter Hodson, 3,464,903.
Shaw, Richard Elliott; and Wiltshire, James Phillip, 3,420,762.
Shotbolt, Keith, 3,435,604.
Smith, Frank, 3,437,579.
Speakman, Raymond Holden, 3,452,626.
Stuart, Ronald Sangster, 3,481,966.
Taylor, George Wright; and Wood, Derek Harold, 3,422,059.
Taylor, George Wright; and Wood, Derek Harold, 3,450,802.
Taylor, Keith Andrew, 3,428,661.
Teichmann, Gordon Alger, 3,456,450.
Thompson, David Thomas, 3,452,070.
Treu, James Frederick; and Whitenstall, Joseph Edric, 3,436,449.
Wardleworth, James; and Poole, Victor David, 3,424,544.
Waring, Wilson Shaw, 3,420,823.
Watson, Norman Leonard, 3,464,966.
Webster, Francis George; and Burleigh, Dereck James Sutherland, 3,445,512.
Weir, Robert James; and Hewitt, Anthony David, 3,460,033.
Weir, Robert James; and Hewitt, Anthony David, 3,465,326.
White, Wilfred Arthur, 3,481,685.
Wilding, Frank, 3,427,002.
Williams, Roy Alan, 3,477,219.
Willis, Harry Arthur; and Boyes, William Allan, 3,437,811.
Winn, Richard, 3,434,804.

Imperial Chemical Industries of Australia and New Zealand Limited: *See—*
Baklien, Asbjorn; Gregory, Jocelyn M.; and Kling, Klaus, 3,478,057.
Gregory, Peter John, 3,479,386.
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan, 3,476,546.
Swan, John Melvin; and Gregory, Jocelyn Margaret, 3,445,484.
Travers, Robert; and Jardine, Norman McL., 3,457,126.
Wluka, David Jankiel, 3,444,107.
Wluka, David Jankiel, 3,454,507.
Wluka, David Jankiel, 3,484,392.

Imperial Eastman Corporation: *See—*
Strybel, Richard V.; and Kowal, Leonard J., 3,421,354.

Imperial Knife Associated Companies, Inc.: *See—*
Rakatansky, Harold, 3,432,159.

Imperial Metal Industries (Kynoch) Limited: *See—*
Barber, Anthony Clifford; and Farmer, Francis John Vernon, 3,465,429.
Barber, Anthony Clifford; and Farmer, Francis John Vernon, 3,465,430.
Barber, Anthony Clifford, 3,466,237.
Cotton, Joseph Bernard; and Sanderson, Brenda, 3,469,074.
Evans, Evan William; and Moon, John Robert, 3,441,407.
Evans, Evan William; and Rotherham, Miles Edward, 3,444,009.
Gordon, Stuart; Mowate, Arthur Jack; Morris, James Paul; and Cunliffe, Alwyn, 3,470,273.
Hardwick, John Gordon, 3,436,289.
Hardwick, John Gordon, 3,457,963.
Humpherson, Donald, 3,424,089.
Morton, Peter Harlow; and Barber, Anthony Clifford, 3,472,944.
Saxl, Karel, 3,425,253.
Whitmore, Peter John, 3,422,761.

Imperial Metal Industries(Kynoch) Limited: *See—*
Huskins, Joseph Walter, 3,442,214.

Imperial Oil Limited: *See—*
Cymbalisty, Lubomyr M. O.;, 3,430,814.
Cymbalisty, Lubomyr M. O., 3,433,245.

Imperial Smelting Corporation (N.S.C.) Limited: *See—*
Bennett, Royston Henry; and Cottrell, David Walter, 3,453,337.
Bennett, Royston Henry; and Cottrell, David Walter, 3,453,338.
Cottrell, David Walter, 3,472,789.
Derham, Leslie Jack, 3,448,972.
Derham, Leslie Jack, 3,448,973.
Derham, Leslie Jack, 3,449,116.
Derham, Leslie Jack, 3,449,117.
Fuller, George, 3,485,839.
Mobbs, Richard Henry, 3,468,960.
Monk, Hayden; and Pepworth, David Peter, 3,453,078.
Pegler, John Lionel; and Pepworth, David Peter, 3,441,372.
Richards, John Harvey; and Castle, John Frederick, 3,462,264.
Rusling, Eric John; and Lowe, Edward Ivan, 3,461,307.
Tilney-Bassett, Julian Frodo, 3,424,804.

Imperial Tabacco Company (of Great Britain and Ireland), Limited, The: *See—*
Jones, David Aubrey; Davis, Alfred C.; and Gaunt, Eric F., 3,422,819.
Imperial Tobacco Company of Canada, Limited: *See—*
Laporte, Leo Conrad, 3,483,872.
Imperial Tobacco Company (of Great Britain and Ireland) Limited, The: *See—*
Davis, Alfred Charles, 3,482,579.
Larkham, John George, 3,482,328.
Imperial-Eastman Corporation: *See—*
Bolling, Carl, 3,444,605.
Fuentes, Ferdinand, 3,471,181.
Holmgren, Marvin E., 3,454,695.
Kowal, Leonard J.; and Strybel, Richard V., 3,438,260.
Imperiale, Peter G.: *See—*
Veltman, Preston L.; and Imperiale, Peter G.,3,481,706.
Impex Corporation: *See—*
Niemi, Herbert W., 3,477,770.
Impola, Clarence N.; and McKillip, William J., to Ashland Oil & Refining Company. Polyurethane compositions and methods for preparing such. 3,440,224, 4-22-69, Cl. 260-77.5
Improved Machinery Inc.: *See—*
Allard, Harrie Martin; and Hoeschel, Helmut Gerhard, 3,465,387.
Godley, Philip, II, 3,438,393.
Konefal, Robert S., 3,465,923.
Luthi, Oscar, 3,438,505.
Rich, John P.; and Carlsmith, Lawrence Allan, 3,452,875.
Rich, John Parker,, 3,434,921.
Vogel, Karl E., 3,467,573.
Vore, Herbert George, 3,456,299.
Impulsora de Patentes Industriales, S.A.: *See—*
Sanchez, Gildardo G., 3,444,885.
Imris, Paul. Method and apparatus for separating particles of different sizes. 3,460,672, 8-12-69, Cl. 209-1.
Imris, Paul. Teaching device. 3,478,443, 11-18-69, Cl. 35-19.
Imris, Paul. Method and apparatus for measuring specific surface area of powders. 3,479,884, 11-25-69, Cl. 73-432.
IMS Company: *See—*
Morse, Albert Reynolds, 3,425,096.
Imse, Philip J., to Rex Chainbelt, Inc. Conveyor roll assembly with removable shaft bearing retainer. 3,428,373, 2-18-69, Cl. 308-20.
Imura, Shinichi; and Yamanaka, Masaru, to Toyo Ethyl Kabushiki Kaisha, mesne. Process for the preparation of mixed alkyl lead compounds. 3,442,924, 5-6-69, Cl. 260-437.
Imura, Toshinobu: *See—*
Kobayashi, Tatsuo; and Imura, Toshinobu,3,434,404.
Inaba, Fumio: *See—*
Tsuya, Noboru; Inaba, Fumio; and Kainuma, Seizo,3,437,952.
Inaba, Seiuemon; and Ishihara, Yasumasa, to Fujitsu Limited, and Toyota Motor Co. Ltd. Automatically controlled cam grinding system. 3,482,357, 12-9-69, Cl. 51-105.
Inaba, Seiuemon; Kojima, Toshio; and Amemiya, Yoichi, to Fujitsu Limited. Axial air gap disc rotor multistage stepping motor. 3,483,406, 12-9-69, Cl. 310-49.
Inaba, Seiuemon; Shimizu, Kanryo; Shimajiri, Tokiji; and Yoshitake, Norito, to Fujitsu Limited. Tracing stylus circuit for replica producing system. 3,467,899, 9-16-69, Cl. 318-18.
Inaba, Seiuemon; Shirafuji, Ryoko; Kojima, Toshio; and Amemiya, Yoichi, to Fujitsu Limited. Axial air gap polyphase stepping motor with double bearing arrangement. 3,469,123, 9-23-69, Cl. 310-49.
Inada, Masami, to Aisin Seiki Kabushiki Kaisha. Disc brake apparatus for vehicles. 3,448,835, 6-10-69, Cl. 188-152.
Inada, Masami, to Aisin Seiki Kabushiki Kaisha. Anti-skid brake apparatus for a vehicle. 3,480,335, 11-25-69, Cl. 303-21.
Inada, Naohiko: *See—*
Jotoku, Minoru; Naka, Shinya; and Inada, Naohiko,3,459,511.
Inada, Satoru: *See—*
Iwai, Issei; Seki, Isao; Minakami, Haruhiko; Kobayashi, Shinsaku; Inada, Satoru; and Kumakura, Seiji,3,471,502.
Inada, Toichiro, to Konto Dyeing & Finishing Co., Ltd. Apparatus for treating a woven fabric. 3,483,720, 12-16-69, Cl. 68-177.
Inagaki, Katsushiro: *See—*
Tanaka, Hideo; and Inagaki, Katsushiro,3,444,157.
Inagaki, Shirokichi, to Korona Kogyo Co., Ltd. Gas fueled lighter. 3,443,877, 5-13-69, Cl. 431-134.
Inamasu, Shuji: *See—*
Nakanishi, Michio; Tsuda, Atsushi; and Inamasu, Shuji,3,467,655.
Inami, Akira; Morimoto, Kazuhisa; and Ishida, Eisuke, to Matsushita Electric Industrial Co., Ltd. Electrophotographic material. 3,464,819, 9-2-69, Cl. 96-1.5
Inami, Akira; Morimoto, Kazuhisa; and Murakami, Yoshinobu, to Matsushita Electric Industrial Co., Ltd. Electrophotographic materials comprising brominated poly-N-vinyl carbazoles. 3,421,891, 1-14-69, Cl. 96-1.6
Inami, Mamoru: *See—*
Kawaguchi, Toshihiko; and Inami, Mamoru,3,433,487.
Inamiya, Tatsuya; Suzuki, Goro; Tanikawa, Masaru; and Matsui, Takao, to Tokyo Shibaura Electric Co., Ltd. Protective device for transistor televisions. 3,466,390, 9-9-69, Cl. 178-7.5
Inauzzi, Joseph; and Habgood, Robert P., Jr., to Plexowood, Inc. Loading tools. 3,473,204, 10-21-69, Cl. 25-103.
Inca Inks, Inc.: *See—*
Remer, Robert K., 3,477,866.
Ince, Norman S.: *See—*
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S.,3,434,828.
Ince, Richard W.: *See—*
Chaney, Preston E.; Ince, Richard W.; and Mason, Charley Mack,3,487,002.
Incentive AB: *See—*
Rydberg, Helge Jan Arnold Molndal; and Reinhardt, Hans, 3,442,445.
Incentive Research and Development AB: *See—*
Abrahamsson, Sixten, 3,466,438.
Inch, John C., to Mueller Brass Co. O-ring retaining construction for rotary valves. 3,437,310, 4-8-69, Cl. 251-317.
Inchausti, Roberto Pla. Rapid crystallization of liquid chemical particles in spray form. 3,474,849, 10-28-69, Cl. 159-4.
Incho, Harry H.: *See—*
Neumeyer, John L.; and Incho, Harry H.,3,485,916.
Incinerator Company Limited, The: *See—*
West, Richard Frank, 3,470,833.
Inda, Floyd, to Walker Manufacturing Company. Machine for bending metal tubes. 3,426,562, 2-11-69, Cl. 72-7.
Indak Manufacturing Corporation: *See—*
Bedocs, Michael F., 3,462,564.
Schink, William N., 3,442,004.
Schink, William N., 3,467,793.
Soreng, John E.; and Cobb, Jesse M., 3,472,975.
Indbryn, Eilif: *See—*
Pedersen, Fredrik; and Indbryn, Eilif,3,461,824.
Inden, Horst: *See—*
Rosenkranz, Dieter; Tiedtke, Alfred; and Inden, Horst,3,442,460.
Independent Boxmakers, Inc.: *See—*
Miller, Philip J., 3,425,537.
Independent Exploration Company of Texas: *See—*
Laseter, John L., 3,447,360.
Independent Lock Company: *See—*
Duval, Robert Armand, 3,425,248.
Haggstorm, Walter R. G., 3,430,535.
Independent Stave Company, Inc.: *See—*
Boswell, James E., 3,448,883.
Indev, Inc.: *See—*
Hawkins, Arthur D., 3,426,729.
Index Packages, Inc.: *See—*
Davis, George M.; and Lander, William M., 3,467,053.
Index-Werke K.G., Hahn & Tessky: *See—*
Link, Helmut; and Schaefer, Erich, 3,422,846.
Indian Head Inc.: *See—*
Engelhard, Otto, 3,478,545.
Indian Telephone Industries Limited: *See—*
Das Gupta, Ranjit; Jayasimha, Mysore Somasekhara Rau; Sitaramarao, Krishnappa; and Yegnanarayan, Rangaiyer, 3,436,568.
Indiana and Aranguren y Cie., S.A.: *See—*
Castiello, Ignacio Aranguren; Sierra, Octavia Vasquez; and Olnick, Jay E., 3,446,663.
Castiello, Ignacio Aranguren; Sierra, Octavio Vasquez; and Olnick, Jay E., 3,446,665.
Indiana Brass Co., Inc., The: *See—*
Reagan, Cleo A., 3,465,372.
Indiana Contact Lens, Inc.: *See—*
Borish, Irvin M., 3,430,391.
Indiana General Corporation: *See—*
McLeish, Charles D., 3,427,801.
Indiana University Foundation: *See—*
Allen, Merrill J., 3,469,904.
Muhler, Joseph C., 3,440,004.
Muhler, Joseph C., 3,441,371.
Muhler, Joseph C., 3,445,567.
Muhler, Joseph C., 3,467,529.
Indoheem N.V.: *See—*
Braskamp, Willem Hendrik, 3,428,057.
Fickweiler, August E. F., 3,445,631.
Inductosyn Corporation: *See—*
Farrand, Clair L., 3,441,888.
Tripp, Robert W., 3,423,656.
Inductotherm Linemelt Corporation: *See—*
Hoff, James L., 3,456,061.
Indugas Gesellschaft fur industrielle Gasverwendung m.b.H., Firma: *See—*
Schmidt, Theodor, 3,459,414.
Industria Yuk: *See—*
Marzo, Victor Milian, 3,442,076.

Industrial Corporation of America: *See—*
Roemer, Henry C., 3,446,264.
Industrial Covers, Inc.: *See—*
Day, Ronald H., 3,463,266.
Day, Ronald H., 3,463,915.
Holcombe, Gordon B., 3,470,991.
Smith, Eric P., 3,463,287.
Industrial Development AB: *See—*
Stal, Sture; and Backman, Ralf, 3,479,932.
Industrial Development Corporation, The: *See—*
Meyer, Harry W., 3,434,193.
Industrial Dynamics Company, Ltd.: *See—*
Calhoun, Fredrick L., 3,454,759.
Calhoun, Fredrick L., 3,471,012.
Industrial Electrical Company Limited: *See—*
Radington-Meech, John Richard; and Wright, George Thomas, 3,470,416.
Industrial Electronic Hardware Corp: *See—*
Pittman, Robert B., 3,423,720.
Industrial Electronic Rubber Company: *See—*
Hennessy, Leo E., 3,450,594.
Murray, Myles N., 3,445,089.
Schmocker, Walter E., 3,440,313.
Industrial Filter & Pump Mfg. Co.: *See—*
Schmidt, Henry, Jr.; and Borre, Earl A., 3,438,502.
Industrial Instrumentations, Inc.: *See—*
Cooper, Irving B., Jr., 3,422,252.
Cooper, Irving B., Jr., 3,478,330.
Industrial Inventions Incorporated: *See—*
Strader, James R., 3,453,962.
Industrial Metal Products Corporation: *See—*
Judge, Donald L.; and Clewley, James R., 3,474,650.
Industrial Metalcraft Company, Inc.: *See—*
Husky, Glover A., 3,478,773.
Industrial Nucleonics Corporation: *See—*
Adams, William L., 3,443,219.
Bishop, Albert B., III, 3,471,685.
Brunton, Donald C., 3,435,240.
Campanella, Angelo J., 3,458,159.
Chope, Henry R., 3,431,417.
Clement, John C., 3,431,761.
Clerc, Milton C., 3,461,391.
Clerc, Milton C., 3,479,511.
Colmery, Benjamin H., Jr.; Hans Linus K., now by change of name; and Hahn, Linus K., 3,424,902.
Doering, George I., 3,474,160.
Evans, Howard J.; and Cornetet, Wendell H., Jr., 3,460,031.
Foster, George B., 3,486,113.
Grant, Michael F., 3,467,861.
Hanken, Albert F., 3,435,220.
Hanken, Albert F. G., 3,452,192.
Hickey, William P.; and Martin, Philip T., 3,435,241.
Jaggers, Henry T.; and Grant, Michael P., 3,443,218.
Joyce, William B., 3,437,823.
Kinne, Robert W., 3,435,242.
Lehman, Don F.; and Varner, Donald E., 3,426,200.
Lowman, Walker B.; and Felty, Richard D., 3,440,421.
Spademan, Charles F., 3,443,220.
Industrial Plant Service & Mfg., Co.: *See—*
Budahn, Burnell E., 3,449,127.
Industrial Products Proprietary Limited: *See—*
Rothauser, Charles, 3,470,900.
Industrial Research Laboratory, Inc.: *See—*
Colinet, Rene D.; and Norcross, James E., 3,437,786.
Industrial Science and Technology, Agency of: *See—*
Kawakami, Tatsuya; and Aisaka, Noboru, 3,449,931.
Komamiya, Yasuo; and Sugiyama, Takeji, 3,444,392.
Industrial Shoe Machinery Corporation: *See—*
Schultz, George; and Dziki, Michael Mieczslaw, 3,442,743.
Schultz, George, 3,483,577.
Industrial Teaching Systems Corporation: *See—*
Green, Robert M., 3,483,635.
Industrial Tectonics Inc.: *See—*
Greby, Daniel F., 3,445,907.
Industrial Timer Corporation: *See—*
Papa, Frank J., Jr., 3,427,412.
Industrial Tool Engineering Company: *See—*
Celovsky, Michael J., 3,435,174.
Industrias Romi S.A.: *See—*
Romi, Giordano, 3,479,899.
Industrie A. Zanussi S.p.A.: *See—*
Zanussi, Lino, 3,460,550.
Zanussi, Lino, 3,467,489.
Industrie-Werke Karlsruhe Aktiengesellschaft: *See—*
Kniese, Fritz, 3,421,229.
Madlener, Paul; and Pecksen, Otto, 3,434,418.
Madlener, Paul; and Pecksen, Otto, 3,440,962.
Six, Ludwig; Niemann, Rudolf; and Karlsruhe, Baden, 3,442,216.
Vollmer, Rudolf, 3,479,003.
Industries A. Zanussi S.p.A.: *See—*
Zanussi, Lino, 3,486,782.
Industriewerk Schaeffler OHG: *See—*
Schaeffler, Georg; and Trufel, Anton, 3,442,562.
Schaeffler, Georg, 3,464,745.
Spiess, Karl, 3,429,021.
Spiess, Karl, 3,473,759.
Teufel, Anton, 3,429,626.
Teufel, Anton, 3,438,685.
Industrikemiska Aktiebolaget: *See—*
Malm, Lars G.; and Hilborn, Hans G., 3,442,386.
Industrilaboratoriet Aktiebolag: *See—*
Ohlsson, Olof W., 3,484,848.
Ohlsson, Olof Werner, 3,420,263.
Industrionics Controls, Inc.: *See—*
Wintriss, George, 3,422,234.
Wintriss, George, 3,440,374.
Wintriss, George, 3,443,044.
Wintriss, George, 3,443,045.
Wintriss, George, 3,446,063.
Wintriss, George, 3,472,979.
Inertia Switch, Inc.: *See—*
Fischer, Murry, 3,459,911.
Inertia Switch Limited: *See—*
Riley, Terence Alexander, 3,470,501.
Ineta Establishment: *See—*
Blaettler, Josef, 3,468,036.
Infante, Carlo, to Tektronix, Inc. Geometry and focus correcting circuit. 3,422,305, 1-14-69, Cl. 315-24.
Infante, Josephine. Dance belts with detachable elastic joining members. 3,458,188, 7-29-69, Cl. 272-1.
Infantino, Joseph R.: *See—*
Gruss, George A.; Smith, Richard A.; and Infantino, Joseph R.,3,478,134.
Infinite Q Corporation: *See—*
Dimon, Donald F., 3,421,375.
Infor Institute for nyttiggorande av forskningsresultat: *See—*
Eklund, Stig Henry Sigurd, 3,463,102.
Information Control Corporation: *See—*
Stupar, Timothy D.; and Thomas , Carl T., 3,475,612.
Information Development Corporation: *See—*
Rader, Edwin R.; and Weyrick, Robert C., 3,460,052.
Information International Inc.: *See—*
Fredkin, Edward, 3,460,099.
Infotronics Corporation: *See—*
Ehrlich, Burney J.; Spence, David W.; and Frisby, Clinton D., 3,475,740.
Frisby, Clinton D.; and Spence, David W., 3,470,367.
Spence, David W., 3,475,600.
Infotronics Corporation, Inc.: *See—*
Eckelkamp, Bernard J.; and Spence, David W., 3,449,725.
Infra-Red Systems, Inc.: *See—*
Van Denend, Herbert, 3,440,737.
Ing. C. Olivetti & C., S. p.A.: *See—*
Cerutti, Giovanni; and Cretaz, Franco, 3,481,521.
Ing. C., Olivetti & C., S.p.A.: *See—*
Ecclesia, Edoardo, 3,466,591.
Elbling, Joseph; and Pomella, Piero, 3,450,868.
LiDonnici, Kenneth Michael; and Post, Gerald, 3,456,845.
Ollearo, Giorgio, 3,473,419.
Perotto, Pier Giorgio; and De Sandre, Giovanni, 3,469,244.
Perotto, Pier Giorgio; and Ecclesia, Edoardo, 3,478,251.
Ricciardi, Giuseppe; and Ukmar, Boris, 3,450,835.
Ricciardi, Giuseppe; and Sandrone, Bruno, 3,450,837.
Ricciardi, Giuseppe; and Sandrone, Bruno, 3,465,100.
Ricciardi, Giuseppe; and Sandrone, Bruno, 3,466,393.
Ricciardi, Giuseppe; and Cerutti, Giovanni, 3,476,300.
Sage, Ira M., 3,451,320.
Ing, David W.; and Hunt, Thomas J., to Westinghouse Electric Corporation. Selective removal of dendrites from dendritic webbed semiconductor material. 3,486,953, 12-30-69, Cl. 156-17.
Ing. Erich Pfeiffer KG, Firma: *See—*
Pfeiffer, Erich; and Pilz, Alfred, 3,463,093.
Ing, Samuel W., Jr.; and Chiang, Yuen-Sheng, to Xerox Corporation. Coating surfaces. 3,472,679, 10-14-69, Cl. 117-93.
Ing, Samuel W., Jr.; and Jensen, Harold A., to General Electric Company. Light emitting semiconductor devices of improved transmission characteristics. 3,443,140, 5-6-69, Cl. 313-108.
Ing, Samuel W., Jr.; Jensen, Harold A.; and Stern, Barry J., to General Electric Company. Negative resistance light emitting solid state diode devices. 3,443,166, 5-6-69, Cl. 317-234.
Ing, Smuel W.: *See—*
Gerhard, Glen C.; and Ing, Smuel W.,3,436,613.
Ingalls, Arthur L.: *See—*
Blikken, Wendell A.; Cutrona, Louis J.; Ingalls, Arthur L.; Leith, Emmett N.; and Porcello, Leonard J.,3,427,104.
Ingalls, Arthur L., to Conductron Corporation. Optical sptial filtering with enlarged frequency spectrum plane. 3,424,512, 1-28-69, Cl. 350-162.

Ingalls, Arthur L., to United States of America, Air Force. Plural channel optical data processor. 3,427,105, 2-11-69, Cl. 355-2.
Ingalls, Charles C. Self-propelled side delivery rake. 3,462,929, 8-26-69, Cl. 56-328.
Ingberman, Arthur K.: *See—*
Levine, Isaac J.; and Ingberman, Arthur K.,3,432,343.
Levine, Isaac J.; and Ingberman, Arthur K.,3,442,983.
Ingebo, Alvin C. Bowling pin setter apparatus. 3,480,279, 11-25-69, Cl. 273-44.
Ingelman, Bjorn Gustaf-Adolf: *See—*
Flodin, Per Gustaf Magnus; Granath, Kirsti Annikki; Ingelman, Bjorn Gustaf-Adolf; and Johansson, Christina,3,453,364.
Ingelman-Sundberg, Alf Martin Magnus. Trim attachment for power boats. 3,428,012, 2-18-69, Cl. 114-66.5
Ingelstroem-Oberlin, Inc.: *See—*
Silver, Joseph R., 3,485,480.
Ingemansson, Curt Adils. Transporting and lifting device combined with a bath tub for invalids. 3,467,970, 9-23-69, Cl. 4-185.
Ingenieursbureau Lemet Chromium H. van der Horst N.V.: *See—*
Zondag, Nicolaas, 3,455,017.
Ingeniorsfirma G. Karlbom A.B.: *See—*
Karlbom, Nils Gunnar Rikard, 3,427,869.
Ingeniorsfirman Nils Weibull AB: *See—*
Weibull, Claes Martin, 3,429,619.
Ingenito, Michael J.: *See—*
de Koster, Heinz A.; and Ingenito, Michael J.,3,466,498.
Ingenjorsfirma Hebe AB: *See—*
Bergling, Charles Gunnar Birger; and Levin, Nils Herman, 3,471,002.
Ingenuics, Inc.: *See—*
Craig, Dwin R., 3,453,944.
Ingersoll, George L., to Boye Needle Company, The. Adjustable knitting needle. 3,438,224, 4-15-69, Cl.
Ingersoll Locks Limited: *See—*
Taylor, Jack William, 3,486,354.
Ingersoll Milling Machine Company, The: *See—*
Kaiser, Karl B., 3,434,190.
Kaiser, Karl B., 3,438,288.
Kampmeier, Frederick J.; and Seborg, Earnest Y., 3,438,287.
Kampmeier, Frederick J., 3,438,289.
Lemery, Raymond E.; and Newell, Norvin E., 3,457,811.
Lewis, Henry Walter; and Larson, John L., 3,457,810.
Sullivan, Robert W., 3,448,631.
Ingersoll-Rand Company: *See—*
Austin, Lee K.; and Mueller, Wilfred G., 3,443,426.
Bangerter, Kenneth R.; and Gable, Duane S., 3,421,392.
Bangerter, Kenneth R., 3,442,362.
Bangerter, Kenneth R.; Ulbing, Otmar M.; and Krouse, John P., 3,450,214.
Bangerter, Kenneth R.; and De Witt, Harold F., 3,482,362.
Bowen, John T., 3,431,985.
Brown, Arthur E., 3,438,390.
Buehler, Alois A.; and Peterson, Carl R., 3,431,984.
Chen, Hsin Sheng, 3,431,725.
Chen, Hsin Sheng, 3,447,398.
Ditson, J. D.; and Cantrel, James F., 3,424,479.
Ditson, J D., 3,452,832.
Dussourd, Jules L., 3,422,911.
Fraser, Grover D., 3,448,916.
Fraser, Grover D., 3,481,532.
Grego, Thomas E., 3,424,436.
Grego, Thomas E., 3,486,588.
Gyongyosi, Laszlo, 3,447,829.
Gyongyosi, Laszlo, 3,480,091.
Halpin, Donald A., 3,454,184.
Hayes, Ralph S., Jr., 3,438,451.
Hinck, Ernest C., III; and Bowen, John T., 3,478,958.
Howe, Frank D.; Swift, Joseph P.; and Groves, Allen D., 3,442,183.
Howe, Frank D.; and Groves, Allen D., 3,463,386.
Hughes, Robert W.; and Coyne, Francis P., 3,478,832.
Kulman, Melvin L., 3,430,521.
Kurt, Ewald H.; Wickens, Edward F.; and Lewis, Samuel P., 3,424,065.
Lawrence, James C., 3,430,718.
Leven, Samuel, 3,446,295.
Lincoln, Paul A.; and Leven, Samuel, 3,420,319.
Lutz, John G.; and Spyridakis, Emanuel G., 3,469,500.
Montgomery, Robert S., 3,454,375.
Munz, Werner, 3,438,509.
Newcomb, Wallace K.; Blank, Charles E., Sr.; and Van Loon, Donald F., 3,438,638.
Noerr, Donald G., Jr., 3,476,192.
Noerr, Donald G., Jr., 3,476,418.
Palmer, William E.; and Forster, Leslie L., 3,429,371.
Paul, Burton; and Stoker, Robert J., 3,454,086.
Pauley, Reginald W.; and Kramer, Leo, 3,440,928.
Peale, Alfred N., 3,421,414.
Skoog, Donald K., 3,421,735.
Stoker, Robert J., 3,472,315.
Ulbing, Otmar M., 3,421,737.
Ulbing, Otmar M.; and Katarskas, Zenonas, 3,442,177.
Ulbing, Otmar M., 3,447,643.
Ulbing, Otmar M., 3,461,975.
Ulbing, Otmar M., 3,481,582.
Ulbing, Otmar M., 3,481,583.
Ulbing, Otmar M., 3,485,259.
Van Gaasbeck, Richard L., 3,432,040.
Worman, Martin, 3,451,425.
Ingerson, Paul G., to University of Illinois Foundation. Broadband negative resistance device. 3,457,528, 7-22-69, Cl. 333-80.
Ingham, Gary G., to Roto-Swing Door Co., Inc. Hinge shaft assembly for balanced doors. 3,464,162, 9-2-69, Cl. 49-383.
Ingham, Gary G.: *See—*
Gilbert, James E.; Kroutil, Larry O.; and Ingham, Gary G.,3,445,963.
Ingham, Herbert S., Jr.; and Ingham, Herbert S., Sr., to Metco Inc. Molybdenum flame spray wire and process. 3,455,508, 7-15-69, Cl. 239-13.
Ingham, Herbert S., Sr.: *See—*
Ingham, Herbert S., Jr.; and Ingham, Herbert S., Sr.,3,455,508.
Ingham, John Milton; and Carrier, Paul Wilfrid, to Brown & Sharpe Manufacturing Company. Hydrostatic machine tool spindle assembly with backing-up mechanical anti-friction bearing. 3,454,309, 7-8-69, Cl. 308-35.
Ingham, Peter Charles: *See—*
Wilson, Alexander John; Coldfield, Sutton; and Ingham, Peter Charles,3,422,932.
Ingham, Robert J.; and Bissell, Robert D., to Dresser Industries, Inc. Gauge casing. 3,434,330, 3-25-69, Cl. 73-1.
Ingle, James F., to Bell Telephone Laboratories, Incorporated. System including a reversible amplifier for testing electrical transmission media. 3,436,496, 4-1-69, Cl. 179-175.3
Ingle, James F., to Bell Telephone Laboratories, Incorporated. Pulse driven circuit for activating an electromagnetic device. 3,439,229, 4-15-69, Cl. 317-148.5
Ingle, James F., to Bell Telephone Laboratories, Incorporated. Pulse driven circuit for activating an electromagnetic device during and for a predetermined interval longer than the input pulse. 3,482,148, 12-2-69, Cl. 317-148.5
Ingleby, Richard F. J., deceased0 (by National Provincial Bank Limited; executor), to Revertex Limited. Compositions containing 2-imidazolidinone for sizing textile yarns. 3,445,407, 5-20-69, Cl. 260-17.4
Inglefield, Samuel, to Imperial Chemical Industries Limited. Liquid-dispensing apparatus. 3,459,333, 8-5-69, Cl. 222-64.
Ingleman, Milton R., to Allied Chemical Corporation. Process for isolating dry, water-soluble azo dyes. 3,483,183, 12-9-69, Cl. 260-208.
Ingleright, Paul T., to Strausberg, Frank, & Son Co. Apparatus and methods for forming a flush joint between adjacent paving mats. 3,459,109, 8-5-69, Cl. 94-39.
Inglima, Richard: *See—*
Posner, Adolph; and Inglima, Richard,3,443,421.
Inglis, Jack S., to Kelek Company, The, mesne. Fuse failure detector. 3,450,949, 6-17-69, Cl. 317-46.
Ingman, Eric M., to Hewlett-Packard Company. Amplifier employing nonlinear DC negative feedback to stabilize its DC operating point. 3,432,763, 3-11-69, Cl. 330-25.
Ingman, Gordon G.: *See—*
Chenoweth, Harry H.; and Ingman, Gordon G.,3,426,537.
Ingraham Company, The: *See—*
Sidell, Philip A., 3,445,297.
Ingraham, Robert C.: *See—*
Baker, Allen G.; and Ingraham, Robert C.,3,421,206.
Baker, Allen G.; and Ingraham, Robert C.,3,421,985.
Ingram, Basil D. Coupling for connecting a flexible tube to a rigid tube. 3,472,536, 10-14-69, Cl. 285-177.
Ingram, John E. Parallel ruler. 3,427,722, 2-18-69, Cl. 33-110.
Ingram, Maxwell. Probe for measuring conductivity of an electrolyte. 3,457,501, 7-22-69, Cl. 324-30.
Ingram, Orville, to Unitcast Corporation. Drop end door balancer. 3,474,741, 10-28-69, Cl. 105-406.
Ingram, Orville; and Floehr, Walter L., to Midland-Ross Corporation, mesne. Apparatus for pneumatically discharging comminuted lading. 3,439,956, 4-22-69, Cl. 302-52.
Ingram, Stuart H. Screeners. 3,456,794, 7-22-69, Cl. 209-316.
Ingram, William L. Speed control mechanism for rolled strip material. 3,452,944, 7-1-69, Cl. 242-75.4
Ingram, William L. Retriever for the broken ends of strip material in an enclosed tank. 3,459,352, 8-5-69, Cl. 226-92.
Ingrassia, Sauveur; and Orsini, Jean, to Societe Civile d'Etudes et de Brevets 'INOR'. Aluminous mortar. 3,472,669, 10-14-69, Cl. 106-104.
Ingruber, Otto V., to Canadian International Paper Company. Apparatus for testing liquids utilizing plurality of probes or electrodes with sensitive ends converging in liquid flow path. 3,471,393, 10-7-69, Cl. 204-195.
Ingwalson, Raymond W.; Smith, William F.; and Wright, James O., to Velsicol Chemical Corporation. Method of improving the color

and color stability of benzoic acid. 3,478,092, 11-11-69, Cl. 260-525.
Ingwerson, Dale R.: *See—*
Davies, Duane W.; and Ingwerson, Dale R.,3,451,274.
Inion, Henri: *See—*
Binon, Fernand; Ziegler, Herbert; and Inion, Henri,3,470,192.
Inject-O-Meter Manufacturing Company, Inc.: *See—*
Stamps, Otis C.; and Neikirk, David W., 3,464,626.
Injeski, Stanley G., to Worldsbest Industries, Inc. Friction held removable gate. 3,431,966, 3-11-69, Cl. 160-225.
Inklaar, Petrus A., to Vasco Industries Corporation. Methods for preparing solid salts of amino acids. 3,450,752, 6-17-69, Cl. 260-534.
Inklaar, Petrus Adam, to Vasco Industries Corporation. Foam-sintering molding process and products. 3,455,483, 7-15-69, Cl. 220-71.
Inland Container Corporation: *See—*
Brown, Philip H.; and Ellson, Lloyd W., 3,477,395.
Ellison, Donald E.; and Guffy, Willie E., 3,467,297.
Mollison, James W.; and Cain, Robert L., 3,456,863.
Wood, Robert N., 3,425,615.
Wood, Robert N., 3,443,971.
Inland Steel Company: *See—*
Bijvoet, Leonardus Arnoldus Nicolaas, 3,459,028.
Ham, Coy S.; Raub, Lyly; Joyce, Jack E.; and Lozano, Robert, 3,481,841.
Hill, Uno T., 3,427,198.
Hill, Uno T., 3,433,670.
Kiwiet, Johannes, 3,455,728.
Kiwiet, Johannes; and Virta, Arthur W., Sr., 3,459,586.
Meijers, Antonie Herman, 3,443,735.
Pray, Ralph E.; and Mills, Norman T., 3,479,135.
Rocher, Heinz, 3,424,340.
Rucoba, Robert; and Sievert, William C., 3,445,298.
Schwarz, Arthur M., 3,427,149.
Slagley, William E.; and Maloney, Lawrence G., 3,454,267.
Soesbergen, Adrianus, 3,429,605.
Ullman, Frederick E., 3,472,418.
Viater, Clement J., 3,474,901.
Vonk, Johnny, 3,463,059.
Woodworth, William J.; and Hayden, Stanley P., 3,436,063.
Inman, Richard B., to Scientific-Atlanta, Inc. Apparatus for packaging. 3,452,512, 7-1-69, Cl. 53-282.
Inman, Richard B.: *See—*
Miller, Douglas D.; Hogan, Thomas Howard; and Inman, Richard B.,3,438,483.
Inman, Thomas R., to Stevens, J. P., & Co., Inc. Hose support. 3,465,756, 9-9-69, Cl. 128-519.
Inmont Corporation: *See—*
Tringali, Alfred M.; Lynch, John E.; and Friedman, Morton, 3,475,367.
Varron, Arleen S., 3,470,123.
Innes, William Beveridge, to American Cyanamid Company. Oxidation catalyst for hydrocarbon combustion exhaust gases and process for using the same. 3,438,721, 4-15-69, Cl. 23-2.
Innes, William Beveridge, to American Cyanamid Company. Catalytic muffler. 3,449,086, 6-10-69, Cl. 23-288.
Innes, William Beveridge; and Michael, Malden Ward, to American Cyanamid Company. Caustic leach treatment of alumina particles to improve strength properties. 3,459,681, 8-5-69, Cl. 252-466.
Innings, Lars Sven Erik; and Hammarlund, Lars Arne, to AB Mekanprodukter Hans Holm. Valve means for damping the piston stroke in a pneumatic cylinder. 3,431,939, 3-11-69, Cl. 137-509.
Innis, Frank B.: *See—*
Staats, Louis T., Sr.; Misener, Cecil D.; and Innis, Frank B.,3,475,888.
Innis, Robert T.; and Mercier, George E., to Westinghouse Electric Corporation. Flexible-tube fuse construction. 3,467,934, 9-16-69, Cl. 337-144.
Innocenti Societa Generale per l'Industria Metallurgica e Meccanica:*See—*
Galbarini, Maso; and Cotta Ramusino, 3,431,797.
Galbarini, Maso; and Ramusino, Francesco Cotta, 3,482,474.
Galbarini, Maso; and Cotta Ramusino, Francesco, 3,483,796.
Innovation International, Inc.: *See—*
Williams, Harry V., 3,448,782.
Ino, Hiroko: *See—*
Ino, Kisaburo, 3,484,818.
Ino, Kisaburo, to Ino, Hiroko. Bottle cap for releasing one item at a time. 3,484,818, 12-16-69, Cl. 221-288.
Inoguchi, Toshio; Niwa, Ichihiko; and Nakazawa, Katsuro, to Hayakawa Denki Kogyo Kabushiki Kaisha. Method for growing single crystals. 3,433,602, 3-18-69, Cl. 23-300.
Inoki, Kazuyoshi: *See—*
Iwasawa, Hiroshi; Inoki, Kazuyoshi; and Iseki, Hajime,3,452,539.
Inokuchi, Takashi: *See—*
Ishii, Yoshiteru; and Inokuchi, Takashi,3,453,592.
Inomata, Fujio; Inomata, Tohru; Inomata, Mamoru; and Inomata, Tomi. Weight-responsive delay-type automatic liquid filling apparatus. 3,463,257, 8-26-69, Cl. 177-117.
Inomata, Mamoru: *See—*
Inomata, Fujio; Inomata, Tohru; Inomata, Mamoru; and Inomata, Tomi,3,463,257.
Inomata, Tohru: *See—*
Inomata, Fujio; Inomata, Tohru; Inomata, Mamoru; and Inomata, Tomi,3,463,257.
Inomata, Tomi: *See—*
Inomata, Fujio; Inomata, Tohru; Inomata, Mamoru; and Inomata, Tomi,3,463,257.
Inose, Hiroshi; Fujisake, Harova; and Saito, Tadao, to Bell Telephone Laboratories, Incorporated. Network synchronization in a time division switching system. 3,483,330, 12-9-69, Cl. 179-15.
Inose, Hiroshi; and Koono, Zenya, to Bell Telephone Laboratories, Incorporated. Tone generators for delta modulation time division communication switching systems. 3,435,149, 3-25-69, Cl. 179-18.
Inose, Hiroshi; and Saito, Tadao, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,446,917, 5-27-69, Cl. 179-15.
Inose, Hiroshi; and Saito, Tadao, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,461,242, 8-12-69, Cl. 179-15.
Inoue, Goro; and Ohshima, Noboru, to Asahi Kasei Kogyo Kabushiki Kaisha. 1-Carboxyl-4-amino(or 1-carboxyl-4-N-alkylamino-) cyclohexenes and process for the preparation thereof. 3,442,940, 5-6-69, Cl. 260-514.
Inoue, Kaname: *See—*
Tamur, Kihachi; Nakajima, Isao; and Inoue, Kaname,3,461,148.
Inoue, Kimio: *See—*
Shimose, Takaaki; Mori, Kenji; Inoue, Kimio; and Takao, Zenichiro,3,428,472.
Inoue, Kiyoshi. Electromachining using an electrolyte having substantially the same resistivity as the electrode. 3,420,759, 1-7-69, Cl. 204-143.
Inoue, Kiyoshi. Resistance welding apparatus and method. 3,424,889, 1-28-69, Cl. 219-112.
Inoue, Kiyoshi. Chemical synthesis. 3,446,718, 5-27-69, Cl. 204-59.
Inoue, Kiyoshi. Kinetic deposition of particulate materials. 3,461,268, 8-12-69, Cl. 219-76.
Inoue, Kiyoshi. Method of and apparatus for the electrochemical machining of a conductive workpiece. 3,474,013, 10-21-69, Cl. 204-143.
Inoue, Kiyoshi. Electrolytic lathe and grinding apparatus employing a homogeneous carbon electrode-tool. 3,475,312, 10-28-69, Cl. 204-217.
Inoue, Kiyoshi. Method of and apparatus for increasing the accuracy of electrochemical grinding process. 3,476,662, 11-4-69, Cl. 204-143.
Inoue, Kiyoshi. Magnetic filter and method of operating same. 3,477,948, 11-11-69, Cl. 210-19.
Inoue, Kiyoshi. Method of depositing substances on and diffusing them into conductive bodies under high frequency electric field. 3,481,839, 12-2-69, Cl. 204-14.
Inoue, Masaru: *See—*
Yoshida, Muneo; Inoue, Masaru; Fukunaga, Tsuyoshi; Oguchi, Heikichi; and Shioya, Koichi,3,437,997.
Inoue, Michiro; Ishikawa, Masayuki; and Ishikawa, Hisako. Derivatives of 2,6-and 2,5-bis (hydroxymethyl) pyridines. 3,467,663, 9-16-69, Cl. 260-294.8
Inoue, Mitsuo; and Matsuzaka, Tanechiyo, to C. D. M. Company Ltd. Automatic submersible pump. 3,472,168, 10-14-69, Cl. 103-25.
Inoue, Morio; Kano, Gota; Matsuno, Jinichi; and Takayanagi, Shigetoshi, to Matsushita Electronics Corporation. Method for forming electrode in semiconductor devices. 3,480,475, 11-25-69, Cl. 117-227.
Inoue, Morio: *See—*
Yokozawa, Masumi; and Inoue, Morio,3,485,731.
Inoue, Noboru: *See—*
Kurokawa, Takaaki; and Inoue, Noboru,3,459,290.
Inoue, Nobuo, to Franklin Institute, The. Pressure vessel for stressing work specimens. 3,481,190, 12-2-69, Cl. 73-94.
Inoue, Seiichi: *See—*
Fujii, Mitsuo; Kumagai, Chitoku; Katagata, Zenji; and Inoue, Seiichi,3,475,591.
Inoue, Shigeru: *See—*
Otsuka, Eiji; Inoue, Shigeru; and Kanai, Kazumichi,3,436,317.
Inoue, Toshio: *See—*
Kitagawa, Hiroshi; Inoue, Toshio; Kurokawa, Susumu; and Horigome, Shinkichi,3,441,506.
Morita, Shigeru; Inoue, Toshio; Eto, Hiromi; and Yoshimitsu, Kenichi,3,456,029.
Inoue, Tosihiro: *See—*
Sugiura, Shotaro; Ueno, Haruo; Nakatomi, Shunsuke; Ishikawa, Hideo; and Inoue, Tosihiro,3,423,387.
Inoue, Yasuhiko: *See—*
Ichiki, Eiichi; Ryu, Hirosuke; and Inoue, Yasuhiko,3,474,122.
Inoue, Yoshihiko: *See—*
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko,3,439,410.
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko,3,439,858.

Inoue, Yoshiji, to Kanzaki Kokyu Koki Mfg. Co., Ltd. Casting machine. 3,486,551, 12-30-69, Cl. 164-286.
Inoue, Yukio: *See—*
Sato, Yoshinori; and Inoue, Yukio,3,473,933.
Inoue, Yuzuru; and Morita, Akiyoshi, to Victor Company of Japan, Limited. Channel mixing system for multiple rotating heads. 3,441,687, 4-29-69, Cl. 179-100.2
Inouye, George T.; and Judge, Darrell L., to TRW, Inc. Superconductive fluxgate magnetometer. 3,435,337, 3-25-69, Cl. 324-43.
Inouye, Mitsuji; and Nagai, Yoshiharu, to Nihon Senshoku Kikai Kabushiki Kaisha Aichi-ken, and Osaka Bobbin Kabushiki Kaisha. Heat-contractible bobbin. 3,471,102, 10-7-69, Cl. 242-118.11
Inovius, Allan: *See—*
Aronsohn, Allan; and Inovius, Allan,3,460,916.
Inpower Works (Proprietary) Limited: *See—*
Freidmann, Eric Helmuth; Trembath, Timothy Richard; Cancrinus, Hendrik; and Fourie, Philip John, 3,425,298.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John, 3,425,297.
Inpower Works (Proprietary)Limited: *See—*
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John, 3,449,983.
Insel-Film GmbH & Co.: *See—*
Reitz, Edgar; and Nestler, Paolo, 3,480,346.
Inshaw, Guy E., to IKL Incorporated. Digital micrometer. 3,482,321, 12-9-69, Cl. 33-166.
Inskeep, George Esler, to Philip Morris Incorporated. Method of aming cigarette filter. 3,484,322, 12-16-69, Cl. 156-292.
Insley Manufacturing Corporation: *See—*
Randall, Kenneth W., 3,442,539.
Randall, Kenneth W., 3,471,035.
Instafreeze Corporation: *See—*
Fallin, Walter Y., 3,435,632.
Instant Structures, Inc.: *See—*
Aitken, James B., 3,461,626.
Insterstabella A.G.: *See—*
Evers, Heinz, 3,479,793.
Institut de Recherches de la Siderurgie Francais: *See—*
Boucraut, Michel; and Toth, Imre, 3,433,624.
Institut de Recherches de la Siderurgie Francaise: *See—*
Bonnivard, Georges, 3,458,278.
Boucraut, Michael; Toth, Imre; and Blum, Jacques, 3,463,553.
Boucraut, Michel; and Toth, Imre, 3,446,355.
Cavalier, Gilbert, 3,433,059.
Dumont-Fillon, Jacques, 3,452,809.
Dumont-Fillon, Jacques, 3,463,365.
Dumont-Fillon, Jacques, 3,482,620.
Grumbach, Marc; and Guimard, Andre, 3,439,532.
Heintz, Robert, 3,486,660.
Meysson, Nicolas; and Dumont-Fillon, Jacques, 3,464,008.
Raguin, Jean; and Rouanet, Jean, 3,486,882.
Rouanet, Jean; and Berthet, Aristide, 3,439,759.
Thomas Frank, 3,446,074.
Vayssiere, Pierre; and Dumont-Fillon, Jacques, 3,463,631.
Vivares, Claude; and Schaller, Albert, 3,486,382.
Institut Dr. Ing. Reinhard Straumann A.G.: *See—*
Steinemann, Samuel; and Tschudin, Oswald, 3,469,462.
Institut Francais du Petrole, des Carburants et Lubrifiants: *See—*
Bene, Georges J., 3,439,260.
Buisson, Andre; Trambouze, Pierre; Van Landeghem, Hugo; and Rebeller, Michel, 3,468,057.
Chauvin, Yves; and Lefebvre, Gilles, 3,479,329.
Cholet, Jacques; Fail, Jean Pierre; Grau, Gerard; and Magneville, Pierre, 3,444,953.
Cosyns, Jean; and Le Page, Jean-Francois, 3,471,400.
Cosyns, Jean; Derrien, Michel; and Le Page, Jean Francois, 3,472,763.
Cuzin, Daniel; Chauvin, Yves; and Lefebvre, Gilles, 3,476,731.
Dawans, Francois; and Teyssie, Philippe, 3,448,095.
Dawans, Fransois; and Teyssie, Philippe, 3,451,987.
Defoor, Franz, 3,422,146.
Deschamps, Andre; and Renault, Philippe, 3,468,790.
Duconge, Claude; and Magneville, Pierre, 3,439,577.
Eyzat, Pierre, 3,439,655.
Gabillard, Robert, 3,427,533.
Gabillard, Robert, 3,440,523.
Haddad, Andre, 3,425,959.
Maguet-Martin, Francoise; Osgan, Maseh; and Teyssie, Pilippe, 3,427,260.
Moulin, Pierre; Barret, Jean Pierre; and La Porte, Michel, 3,421,138.
Moulin, Pierre, 3,422,783.
Osgan, Maseh; Silly, Jean-Pierre; and Teyssie, Philippe, 3,432,445.
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel, 3,461,096.
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel, 3,471,453.
Rabilloud, Guy; Sillion, Bernard; and de Gaudermaris, Gabriel, 3,476,590.
Renault, Philippe, 3,441,379.
Salle, Robert; Sillion, Bernard; and de Gaudemaris, Gabriel, 3,470,140.
Tiraspolsky, Wladimir; and Rouviere, Roger, 3,449,030.
Tiraspolsky, Wladimir, 3,455,402.
Wiegandt, Herbert F., 3,435,625.
Willm, Pierre; and Delams, Rene, 3,443,543.
Institut Francais du Petrole, des Carburats et Lubrifiants: *See—*
Delacour, Jacques; and Casteran, Jean, 3,420,318.
Institut fur Energetik: *See—*
Mehlig, Heinrike; and Walter, Christian, 3,451,147.
Institut fur Lacke und Farben: *See—*
Schutte, Helmut; Taschen, Gunter; and Berger, Karl, 3,425,667.
Institut fur Plasmaphysik Gesellschaft mit beschrankter Haftung: *See—*
Hora, Heinrich; and Kronast, Benedikt, 3,444,377.
Institut fur Regelungstechnik: *See—*
Prochnow, Horst, 3,435,356.
Institut fur Silikon- und Fluorkarbon-Chemie: *See—*
Dathe, Christian; and Muller, Richard, 3,458,555.
Muller, Richard; and Dathe, Christian, 3,458,551.
Muller, Richard; Reichel, Sigrid; and Dathe, Christian, 3,465,012.
Institut Gornogo Dela imeni A.A. Skochinskogo: *See—*
Alexandrov, Evgeny Vsevolodovich, 3,439,755.
Institut National de l'Industrie Charbonniere:*See—*
Ledent, Pierre Leon Victor, 3,476,649.
Institut National de Recherche Chimique Appliquee: *See—*
Bolle, Jean Charles Eugene, 3,459,820.
Institut Textile de France: *See—*
Helffer, Bernard Francois; Raisin, Jean-Pierre A.; and Voisin, Eugene J., 3,451,603.
Raisin, Jean-Pierre, 3,461,692.
Institute Matematiki Sibirskogo Otdelenia: *See—*
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich; Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich, 3,430,150.
Institute Matematiki SOAN: *See—*
Sigorsky, Vitaly Petrovich; Molchanov, Alexandr Artemjevich; Sitnikov, Leonid Semenovich; and Utjakov, Lev Lazarevich, 3,423,703.
Institute Neftekhimicheskogo Sinteza im. S.V. Topchieva: *See—*
Nametkin, Nikolai Sergeevich; Vdovin, Valentin Mikhailovich; and Zavyalov, Valery Ivanovich, 3,422,039.
Institute Neftekhimicheskogo Sintezi imeni A.V.: *See—*
Katsobashvili, Jakov Rafailovich; and Belova, Galina Mikhailovna, 3,422,031.
Institute of Cosmetic Dentistry, Incorporated: *See—*
Andrews, James A.; and Bahm, Glenn A., 3,429,043.
Andrews, James A.; Bahm, Glenn A.; Dodson, Riley B.; and Walker, John N., 3,462,837.
Bahm, Glenn A., 3,422,534.
Institute of Gas Technology: *See—*
Chi, Chang W.; and Macriss, Robert A., 3,446,031.
Feldkirchner, Harlan L.; Linden, Henry R.; Khan, Amanullah R.; and Todesca, Flaminio, 3,433,610.
Feldmann, Herman F., 3,421,868.
Mason, David M., 3,475,524.
Mason, David McArthur, 3,448,060.
Weil, Sanford A.; and Staats, William R., 3,470,708.
Institutional Research Council, Inc.: *See—*
Taub, Stephen E., 3,427,859.
Instituto Centroamericano de Investigacion y Technologia Industrial: *See—*
Sole, Pedro, Jr., 3,451,990.
Instituto Chemioterapico Italiano S.p.A.: *See—*
Garzia, Aldo, 3,432,550.
Garzia, Aldo, 3,432,551.
Instituto Nacional de Industria: *See—*
Gumucio, Ricardo Salcedo, 3,428,529.
Gumucio, Ricardo Salcedo; and Ardanuy, Angel Pascual, 3,440,100.
Institutt for Atomenergi: *See—*
Petersen, Eirik Nicoll, 3,429,775.
Skaug, Jan A.; and Kjelland-Fosterud, Einar, 3,452,518.
Instituut voor Bewaring en Verwerking van Landbouwprodukten: *See—*
Sijbring, Pieter Herman, 3,460,162.
Instone, Alan Thomas: *See—*
May, Herbert; Kendall-Smith, Brian John; Dodd, John Alan; and Instone, Alan Thomas,3,442,867.
Instron Corporation: *See—*
Burr, George Sterling, 3,433,061.
De Nicola, Joseph Peter, 3,435,459.
Denker, James Melvin, 3,452,773.
Jones, Edgar J., 3,421,132.
Instron Limited: *See—*
Griffiths, John H.; and Poulson, Barrie K., 3,435,231.
Instrument Research, Inc.: *See—*
Hunnicutt, Cecil C., 3,454,009.

Instrument Systems Corporation: *See—*
Bickham, Euland M.; and Rosenfeld, Samuel, 3,475,880.
Instrumentation Specialties Company: *See—*
Allington, Robert W., 3,453,200.
Allington, Robert W., 3,463,927.
Instruments Displays, Inc.: *See—*
Baker, William F., 3,434,624.
Instytut Badan Jadrowych: *See—*
Fuksiewicz, Edmund, 3,463,957.
Insul Company Incorporated: *See—*
LaBate, Michael E., 3,477,683.
Insul-8 Corporation: *See—*
Scofield, Donald H., 3,452,433.
Inta-Rota Machine Company, Inc., The: *See—*
Dodd, Roy G., 3,474,982.
Inta-Roto Machine Company, The: *See—*
Kesler, George W., 3,451,332.
Integra-Structures, Inc.: *See—*
Rothermel, John H., 3,436,885.
Integral Process Systems, Inc.: *See—*
Harper, John D.; Breyer, Frederick; and Wagner, Richard C., 3,431,745.
Integrated Development and Manufacturing Co.: *See—*
Davis, Noel, 3,434,530.
Davis, Noel, 3,447,595.
Integrated Electronics Corporation: *See—*
Copel, Michel, 3,431,356.
Integrated Systems, Inc.: *See—*
Baranowski, Eugene, 3,426,188.
Intelligent Instruments, Inc.: *See—*
Slavin, Peter E., 3,486,085.
Slavin, Peter Edmond, 3,432,657.
Inter Store Transfer Specialists Inc.: *See—*
Connor, William G.; Wright, Donald F.; and Dove, Douglas J. A., 3,438,562.
Inter-Taylor AG: *See—*
Sauttr, Gerd; Mockesch, Erich; and Gotz, Franz, 3,478,756.
Interchemical Corporation: *See—*
Ackerman, Joseph Francis; and Shur, Eliakum Gustave, 3,444,113.
Boles, Sherman L., Jr., 3,421,912.
Bownes, Kenneth A.; and Bendrick, Edward S., 3,472,802.
Gresenz, William M.; Bendrick, Edward S.; Weber, Bruce R.; and Archacki, William J., 3,483,149.
Kao, Henry C., 3,446,784.
Norcross, Gerald W., 3,440,195.
Pizzarello, Roy A.; and Poltersdorf, Otto, 3,440,000.
Smith, Daniel; and Cassel, Norman S., 3,443,515.
Weber, Arthur; Hill, Franics R.; and Rowe, David, 3,436,365.
Winchester, Charles M.; Faccone, Joseph A.; and Webb, Stephen F., 3,476,591.
Intercole Automation, Inc.: *See—*
Matsuoka, James T., 3,480,992.
Matsuoka, James T., 3,483,595.
Intercontinental Chemical Corporation: *See—*
McKinney, John F., 3,448,765.
Intercontinental Dynamics Corporation: *See—*
Andresen, John H., Jr., 3,450,020.
Andresen, John H., Jr., 3,453,945.
Smalley, Bion L., 3,473,107.
Intercontinental Manufacturing Company, Inc.: *See—*
Motley, Joe Bailey; and Shape, Raymond H., 3,440,858.
Intercontinental Systems, Inc.: *See—*
Bernier, Donald R.; and Correll, Quentin E., 3,423,735.
Bernier, Donald R., 3,435,419.
Interfil Limited: *See—*
Forman, Ronald Max, 3,464,594.
Interim Corporation: *See—*
Sperduti, Alexander F., 3,441,235.
Interlake Steel Corporation: *See—*
Burns, John J.; and Remus, Everett A., 3,422,962.
Keyser, Naaman H., 3,423,080.
Lorden, William C.; McConnell, Kennedy; and Donkle, Lucius B., Jr., 3,473,642.
McConnell, Kennedy, 3,438,343.
Simich, Emil, 3,474,000.
Tetens, Harold G., 3,446,452.
Touzalin, Robert E.; and Patrick, Rudolph R., 3,459,536.
Wognum, James N., 3,483,918.
Zagotta, Nicholas A.; and Rogers, Charles J., 3,463,325.
Interlego A.G.: *See—*
Christiansen, Godtfred Kirk, 3,475,851.
Kristiansen, Knud Moller, 3,461,601.
Intermountain Research and Development Corporation: *See—*
Fischer, William G.; Norgord, John D.; and Wilson, Jack, 3,455,606.
Intermountain Research and Engineering Company, Inc.: *See—*
Clay, Wallace A., 3,463,581.
Cook, Melvin A.; Udy, Lex L.; and Clay, Robert B., 3,473,983.
Jessop, Harvey A; and Udy, Lex L., 3,485,686.
Internation Standard Electric Corporation: *See—*
Charransol, Pierre, 3,448,392.
International Agri-Systems, Inc.: *See—*
Crane, Edward J., 3,426,546.
Crane, Edward J., 3,453,683.
Masters, Allen L., 3,441,979.
Masters, Allen L., 3,453,685.
International Aluminum Ltd.: *See—*
Ceder, Joseph, 3,453,792.
International Basic Economy Corporation: *See—*
Baer, Sheldon; Toth, Michael J.; and Dunning, John W., 3,451,828.
Raymond, Robert E., 3,429,231.
Raymond, Robert E., 3,429,337.
Raymond, Robert E., 3,440,965.
Raymond, Robert E., 3,455,585.
International Business Machines Corporation: *See—*
Abbott, George F.; Ceonzo, Joseph A.; Isenberg, John F., Jr.; Johnson, Robert A.; and Regan, John M., 3,482,057.
Abramson, Paul, 3,427,569.
Abramson, Paul; and Stilwell, George R., Jr., 3,440,607.
Adams, Lester R.; and Lord, Philip A., 3,466,432.
Agusta, Benjamin; and Hess, Martin S., 3,443,176.
Ainslie, Norman G.; Chhabra, Devendra S.; Jepsen, Donald W.; and Mutter, Walter E., 3,474,530.
Ainsworth, Willard E.; and Hill, Norman C., 3,427,849.
Akmenkalns, Ivars G.; Gamblin, Rodger L.; and Lord, Philip A., 3,461,441.
Aldrich, Douglas H.; Bombard, Richard F.; Gibbs, Doyle C.; and Orrange, Robert J., 3,448,271.
Allen, Richard G.; Kurtz, Clark; Mac Sorley, Olin L.; Spencer, Dana R.; and Stetler, Wesley C., 3,474,239.
Anacker, Wilhelm, 3,434,116.
Anacker, Wilhelm, 3,466,636.
Anacker, Wilhelm, 3,466,638.
Anderholm, Ferd R., 3,451,056.
Anderson, David W.; Mizzi, John V.; and Sparacio, Francis J., 3,449,723.
Anderson, David W.; Sparacio, Francis J.; and Tomasulo, Robert M., 3,477,063.
Anderson, Herbert R., Jr., 3,441,939.
Anderson, John L.; and Leilich, Hans-Otto G., 3,436,747.
Andrews, Donald R.; and James, Eliott D., 3,465,302.
Annunziata, Eugene J.; James, Robert S.; King, Lewis E.; and Pierce, Edwin B., 3,432,813.
Apple, Clarence T.; and Dervan, James T., 3,427,443.
Armstrong, John A.; and Brasau, Norman, 3,445,167.
Armstrong, John A., 3,445,668.
Aronstein, Jesse; Mozer, Donald T.; and Poloncic, Stanley J., 3,426,883.
Aronstein, Jesse; and Caccoma, George A., 3,427,517.
Aronstein, Jesse, 3,480,836.
Arter, Nelson K.; and Martin, Van C., 3,480,827.
Arulpragasam, Jeganandaraj A.; and Frye, Harold E., 3,434,114.
Ash, William W.; Kosanke, Kurt M.; and Sincerbox, Glenn T., 3,423,736.
Aziz, Rahmat A., 3,428,904.
Badum, Paul J.; Baumeister, Heard K.; and Nejezchleb, Vladimir, 3,442,419.
Bagley, John D., 3,453,387.
Bahnsen, Ralph J.; and Cocke, John, 3,427,592.
Bandat, Kurt; and Rothauser, Ernst, 3,450,838.
Barbeau, Raymond A.; Day, Kelly B., Jr.; and Weidenhammer, James A., 3,420,424.
Barbeau, Raymond A.; Bradford, Rex C.; Fraim, Norman R.; and Lockett, Donald E., 3,449,756.
Barrekette, Euval S.; Donath, Eric; and Herd, Harold H., 3,423,740.
Barrekette, Euval S.; Freiman, Charles V.; Gazis, Denos C.; and Lovell, John E., 3,453,595.
Barrekette, Euval S.; and Duffy, John A., 3,466,615.
Barson, Fred; and Lehman, Herbert S., 3,461,360.
Barson, Fred; and Mutter, Walter E., 3,465,427.
Barson, Fred; and Kuiper, Lubertus L., 3,477,123.
Bartz, Maurice R., 3,429,993.
Bartz, Maurice R., 3,479,642.
Baskin, Herbert B.; Evans, Paul F.; and Rittenhouse, Larry E., 3,461,449.
Bate, Geoffrey; Judge, John S.; Morrison, John R.; and Speliotis, Denis E., 3,460,968.
Baxter, Duane W.; Felton, Bruce C.; Hill, Harold W.; and Hoffman, Harry S., Jr., 3,428,953.
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr., 3,473,212.
Beck, John William; and Steele, Charles John, 3,463,993.
Belet, Joseph J., 3,422,424.
Bennett, Jack P.; Harring, Charles A.; and Teo, William, 3,441,849.
Bennett, Jack Plymette; Gordon, David; and Kutcher, Myron Martin, 3,471,778.

Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H., 3,480,795.
Berkenblit, Melvin; and Reisman, Arnold, 3,476,592.
Bertelsen, Bruce I., 3,432,822.
Bertelsen, Bruce I.; Hottenrott, Hans G.; and Kump, Herbert J., 3,435,428.
Bertelsen, Bruce I.; Kump, Herbert J.; and Chang, Paul T., 3,465,311.
Bertelsen, Bruce I.; and Reimer, Arnold E., 3,476,561.
Betts, Robert, 3,440,413.
Bialko, William Frank; and Boettcher, Benedict Andrew, 3,480,857.
Billet, James M.; Orinik, Michael T.; and Thompson, James O., 3,450,553.
Billings, Russell A., 3,486,749.
Bilous, Orest; Castrucci, Paul P.; and Clark, Tommy D., 3,421,057.
Bilous, Orest; Meulemans, Darrell R.; Pecoraro, Raymond P.; and Selby, Michael C., 3,473,093.
Black, Robert J.; Thaler, George J.; Prentky, Peter I.; and Cordano, Richard D., 3,426,337.
Black, Robert J.; and Sordello, Frank J., 3,427,606.
Blasbalg, Herman L., 3,432,619.
Blevins, Parker R.; Heard, Roderick S.; and Hornung, Louis M., 3,461,430.
Boehm, Gilbert O.; Hoffman, Harry S., Jr.; and Williams, James H., 3,463,571.
Boggs, William H.; and Rousselot, George E., 3,434,866.
Bogholtz, Richard, Jr.; and Dym, Herbert, 3,452,205.
Boland, Lawrence J.; Mizzi, John V.; and Smith, John W., 3,449,724.
Bolt, Murray H.; and Nick, Howard H., 3,444,470.
Boudreaux, Lee J.; Flur, Barry L.; and Scow, Kenneth B., 3,470,020.
Boyd, Edward L., 3,481,184.
Bradford, Rex C.; and Braun, Richard E., 3,479,662.
Bradley, Edward Franklin, 3,435,310.
Bradley, Edward Franklin; and Ferrier, Herman Anthony, Jr., 3,435,314.
Bradley, Mark E.; and Hinkein, Donald J., 3,427,494.
Bradshaw, Robert D.; and Jensen, Hans H., 3,423,528.
Braslau, Norman, 3,435,303.
Braun, Richard E., 3,438,018.
Braun, Richard E.; Tiao, Hui-li; and Verdibello, Ambrose A., 3,486,220.
Braun, Roland J., 3,461,300.
Brenza, James G.; and Kusnick, Arthur A., 3,480,910.
Broers, Alec N., 3,462,635.
Bron, Walter E.; Heller, William R.; and Welber, Benjamin, 3,452,332.
Bron, Walter E.; Dreyfus, Russell W.; and Heller, William R., 3,466,616.
Brooks, Everett G.; and McCullough, John W., 3,471,853.
Brown, David Trent; and Wolff, Charles Harry, 3,439,331.
Brown, Edgar Alan; and Darling, Richard H., 3,449,639.
Brown, Edgar Alan; Chou, Albert S.; and Darling, Richard H., 3,460,469.
Brownlow, James M., 3,480,522.
Brunner, Rolf H.; and Weber, Edward V., 3,466,514.
Burge, Helmut W., 3,430,495.
Burns, Howard M., Jr., 3,484,167.
Bush, Grant H.; and Duke, Keith A., 3,462,741.
Calfee, Richard W.; Hopner, Emil; Meyer, Orman F.; and West, Lynn P., 3,466,392.
Calta, Salvatore A.; Carlson, Harry A.; Granito, Gerry D.; Kaumeyer, Lynn W.; Marcotte, Alphonse U.; and Messina, Benedicto U., 3,447,135.
Campbell, Elwood C., 3,481,655.
Capozzi, Anthony J., 3,431,558.
Carlock, Frank R.; Kippenhan, B. William; Lamoureux, William R.; and Lazarchick, Nicholas, Jr., 3,435,278.
Carroll, William C.; and Johnston, Howard T., Jr., 3,479,036.
Carter, Richard S., 3,440,615.
Castellani, Eugene E.; Keefe, George E.; and Romankiw, Lubomyr T., 3,483,534.
Castrucci, Paul P.; and Pecoraro, Raymond P., 3,431,472.
Castrucci, Paul P., 3,446,995.
Castrucci, Paul P.; and Im, Samuel S., 3,447,984.
Castrucci, Paul P.; Hess, Martin S.; and Pecoraro, Raymond P., 3,473,976.
Castrucci, Paul P.; Collins, Robert H.; and Shepheard, Robert G., 3,480,841.
Caudill, Allison H.; and Goff, Willie, Jr., 3,432,020.
Cefarelli, Frank P.; and Evans, Robert T., 3,474,385.
Cely, James V.; and Ritchie, Robert T., 3,481,589.
Cenfetelli, Anthony R., 3,426,332.
Champ, Robert B.; and Halperin, Bernard I., 3,427,165.
Chance, Dudley A., 3,434,896.
Chang, Hsu; Mee, Charles Denis; Voegeli, Otto; and Middelhoek, Simon, 3,440,623.
Chang, Hsu; and Genovese, Eugene R., 3,461,438.
Chang, Leroy L.; and Esaki, Leo, 3,450,960.
Cheroff, George; and Hochberg, Frederick, 3,445,924.
Chesarek, Donald J.; and Reynolds, Zack D., 3,476,973.
Chiou, Charles; and Garcia, Joseph R., 3,428,866.
Chiou, Charles; Smith, James F.; and Huang, Sydney S., 3,485,996.
Chisnell, Thomas C.; and Winter, Robert E., 3,448,208.
Chomicki, John S., 3,434,115.
Chu, Richard C., 3,481,393.
Cielo, John R., 3,443,194.
Cistola, Anthony B., 3,426,248.
Clapper, Genung L., 3,479,460.
Clark, Kendall; Rajac, Thomas J.; Santillo, George R., Jr.; and Schuelke, Walter J., 3,453,714.
Clark, Kendall; Herrmann, Theodor; Lattin, Jocelyn C.; and Medwid, John, 3,465,408.
Clark, Kendall; Herrmann, Karl E.; and Klein, William A., 3,477,051.
Clark, Kendall; De Turris, Frank L.; and Kaper, Ronald G., 3,483,495.
Clark, Kendall; and Lia, Rudolph F., 3,483,497.
Clarridge, Ralph E., 3,458,821.
Cobb, Richard O.; and Skov, Raymond A., 3,437,869.
Conrad, Ernest E.; and Finger, Armin A., 3,461,842.
Cook, Kenneth A.; and Wood, Harold R., 3,452,983.
Cooper, James C.; and Wissick, William P., 3,445,819.
Cooper, Jamexs; King, Lewis E.; and MacSorley, Olin L., 3,478,321.
Cooper, Thomas S.; and Norton, David E., 3,445,831.
Cordero, Humberto R., 3,432,810.
Cox, Cecil Wayne; and Hornung, Louis M., 3,426,185.
Creedon, Jerome M.; and Massey, Joel H., 3,485,167.
Criscimagna, Tony N., 3,445,817.
Crockett, Peter N.; Hackl, Frank J.; and Stafford, Thomas S., 3,465,132.
Crouse, William G., 3,432,616.
Crouse, William G., 3,482,188.
Crutcher, B. Todd, III; and Dodge, Ronald D., 3,435,934.
Cunningham, James M., 3,451,335.
D'Heurle, Francois M.; Esaki, Leo; and Seki, Hajime, 3,451,912.
Dahms, Harald, 3,458,421.
Dailey, Jack R., 3,427,445.
Dailey, Jack R.; and Lake, Richard L., 3,465,136.
Damm, Eugene P., Jr., 3,463,638.
Daughton, James M.; and Keefe, George E., 3,456,248.
Davidse, Pieter D.; Koster, Lawrence R.; and Himes, Walter, 3,423,303.
Davidse, Pieter D.; and Maissel, Leon I., 3,432,417.
Davidse, Pieter D., 3,471,396.
Davidse, Pieter D.; Dhaka, Vir A.; and Maissel, Leon I., 3,474,021.
Davis, Edward M., Jr.; and Mones, Arthur H., 3,456,158.
Davis, Edward M., Jr.; McNutt, Robert D.; and Mones, Arthur H., 3,456,159.
De Claris, Nicholas; Greeson, James C., Jr.; and Horgan, Thomas B., 3,482,211.
De Serre, Charles G.; and Johnson, Thomas L., 3,476,920.
Delaney, Ronald A.; and Williams, Jesse J., Jr., 3,444,501.
Dervan, James T., III, 3,478,286.
Deskevich, Stephen; and Newman, John B., 3,462,411.
Dickinson, Wesley Edward, 3,450,989.
Dietsch, Hans E.; Gow, John, III; and Surty, Rohinton J., 3,458,352.
Dingwall, Robert P.; and Marcar, Haik, 3,426,453.
Dingwall, Robert P., 3,434,131.
Divine, Dwight, III, 3,478,356.
Dohler, David E., 3,443,027.
Dollenmayer, William L., 3,426,161.
Dollenmayer, William L., 3,471,654.
Domenico, Robert J.; and Lloyd, Robert H. F., 3,460,010.
Donner, Edward O.; Keeler, Howard S.; Botjer, John L.; and Frye, Harold E., 3,453,384.
Douglas, Gavin L.; and Simpson, Jack W., Sr., 3,432,845.
Driscoll, Graham C., 3,445,822.
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard, 3,435,447.
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard, 3,466,433.
Dunlap, William, Jr.; Koretzky, Herman; and Mc Cabe, Harry D., 3,446,657.
Dym, Herbert, 3,432,670.
Ebert, Ekkehard; and Spielmann, Werner, 3,421,956.
Eichorn, Robert N., 3,450,419.
Eisenbies, John L., 3,480,915.
Elfant, Robert F., 3,432,812.
Ellul, Joseph M., 3,444,839.
Engel, Jan Marcin, 3,447,021.
Engle, Vencil D.; and Roller, Donald C., 3,481,445.
English, Thomas D., 3,456,247.

Erlbach, Erich, 3,427,091.
Ernst, Eric O.; Hurd, Donald J.; and Seeley, Gerard, 3,424,629.
Esaki, Leo; Howard, Webster E., Jr.; and Stiles, Phillip J., 3,445,733.
Evans, Bob O., 3,478,322.
Evans, James R.; and Rowe, Thomas H., 3,435,418.
Evleth, Earl M.; and Herrick, Clifford E., Jr., 3,484,241.
Falkoff, Adin D.; and Senzig, Donald N., 3,440,611.
Fan, George J., 3,432,837.
Fang, Frank F.; and Howard, Webster E., Jr., 3,458,798.
Farber, Arnold S.; and Ruoff, Carl E., 3,461,312.
Ficker, Walter W.; Rajac, Thomas J.; and Stricker, Alfred A., 3,443,707.
Fields, Davis S., Jr.; and Mehl, Daniel L., 3,420,717.
Findlay, Hugh T.; and Horne, William H., 3,463,697.
Findlay, Hugh T., 3,484,508.
Findlay, Hugh T.; and Horne, William H., 3,485,903.
Fischer, Christopher L.; and Haughton, Kenneth E., 3,428,197.
Flagg, Paul B., 3,466,471.
Flavin, Theodore F., 3,477,252.
Fleisher, Harold; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, 3,432,222.
Fleisher, Harold; and Harris, Thomas J., 3,448,282.
Fletcher, Robert P., 3,444,526.
Flur, Barry L.; Davidse, Pieter D.; and Maissel, Leon I., 3,480,922.
Foglia, Henry R., 3,432,835.
Forslund, Donald C.; and Waxman, Ronald, 3,428,903.
Foster, Luther M.; and Scardefield, John E., 3,427,211.
Fredriksen, Thorbjoern R., 3,463,985.
Fredriksen, Thorbjoern R., 3,476,996.
Fredriksen, Thorbjoern R., 3,482,155.
French, Walter K., 3,423,596.
French, Walter K., 3,466,394.
French, Walter K., 3,479,987.
Frey, Alexander H., Jr., 3,475,725.
Frey, Alexander H., Jr., 3,487,361.
Frey, Alexander H., Jr., 3,487,362.
Friedman, Harry; Langmaid, Roger N.; and Pickart, Don E., 3,471,415.
Gamblin, Rodger L.; and Lord, Philip A., 3,423,741.
Gamblin, Rodger L., 3,444,539.
Gamblin, Rodger L., 3,452,212.
Gamblin, Rodger L.; Lord, Philip A.; Welch, Elvin C.; and Tunis, Cyril J., 3,452,213.
Gamblin, Rodger L.; and Lord, Philip A., 3,452,340.
Gamblin, Rodger L., 3,458,730.
Gamblin, Rodger L., 3,466,634.
Gardner, Edward E.; Gorey, Edward F.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing, 3,487,301.
Gardner, Peter Alan Edward, 3,469,178.
Garry, Gerald A.; Kostuch, Donald J.; Lawless, Frederick W.; and Malaby, Davey L., 3,458,688.
Garwin, Richard L., 3,432,768.
Geller, Alan R., 3,459,927.
Geller, Alan R., 3,470,366.
Geller, Alan R., 3,476,923.
Giannuzzi, George A.; and Haney, Donald W., 3,427,962.
Gibbs, Doyle C., 3,454,775.
Gibson, Robert G.; Hughes, David R.; and Leavenworth, Richard L., 3,434,117.
Gilvey, John P.; and Hershoff, Leonard, 3,445,707.
Glang, Reinhard; and Maissel, Leon I., 3,472,074.
Goff, Willie, Jr.; and Spears, Jesse W., 3,424,292.
Goplen, Francis A.; McCullough, John W.; and Thomas Richard H., 3,466,516.
Gorbatenko, George G.; Jursik, James; Kimmel, Milton J.; Razi, Syed; and Wilson, Norman D., 3,460,131.
Gorog, Etienne P., 3,478,350.
Greenman, Jesse M., III, 3,453,781.
Greer, Donald L.; O'Daniel, Jerome B.; and Yosmali, Krikor, 3,451,520.
Greeson, James C., Jr., 3,435,365.
Greeson, James C., Jr.; and Kennedy, James J., 3,452,217.
Grobin, Allen W., Jr., 3,425,805.
Gunderson, Paul E.; Kulterman, Robert W.; and Stockdale, Norman S., 3,465,958.
Gunn, John B., 3,423,754.
Gunn, John B., 3,433,974.
Gunn, John B., 3,452,221.
Gunn, John B., 3,462,219.
Gustafson, Robert M., 3,474,422.
Gutwin, Otto A., 3,451,047.
Hagopian, Jacob J.; and Steele, William E., 3,437,074.
Haines, Robert S., 3,445,264.
Haines, Robert S.; and Vranka, Joseph S., 3,479,219.
Haining, Frank W.; Halperin, Bernard I.; and Thompson, James O., 3,421,895.
Hairabedian, Barouyr Z.; and Wasylchak, Russell W., 3,459,609.
Haire, Kenneth E., 3,471,770.
Hall, Richard E., 3,448,275.
Halperin, Bernard I., 3,427,162.
Halperin, Bernard I., 3,427,163.
Halperin, Bernard I.; and Thompson, James O., 3,427,164.
Halperin, Bernard I.; and Thompson, James O., 3,464,823.
Hanson, Charles C., 3,452,185.
Hanson, Charles C., 3,461,303.
Harbour, Wilmer Paul, Jr.; and Horlander, James F. (Frank J.), 3,452,151.
Hardin, William W., 3,433,933.
Harding, William E.; Perri, John A.; Riseman, Jacob; and Ruder, Winfield S., 3,449,049.
Hardy, Wilton A., 3,432,771.
Harper, Leonard Roy, 3,423,737.
Harrington, Richard H.; and Henkel, Michael A., 3,433,153.
Harris, Thomas J.; and Max, Erhard, 3,432,221.
Harris, Thomas J.; Fleisher, Harold; and Shapiro, Eugene, 3,434,778.
Harris, Thomas J.; and Max, Erhard, 3,435,370.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, 3,439,348.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, 3,469,206.
Harris, Thomas J., 3,481,661.
Hawxhurst, John E., 3,442,210.
Hazel, Herbert K., 3,452,431.
Hazel, Herbert K.; and Mueller, Wolfgang F., 3,460,245.
Heidecker, Robert F.; and Leonardi, Joseph R., 3,487,320.
Heilweil, Melvin F.; Maley, Gerald A.; Muhlenbruch, Gilbert R.; and Ogden, Stewart, 3,459,926.
Heller, William R., 3,460,884.
Hemprich, Horst J.; Schneider, Walter F.; Spiro, Hans W.; and Zehr, Joachim O., 3,479,583.
Hendrickson, Thomas A.; and Croll, Donald C., 3,464,265.
Hendrickson, Thomas A.; and Stahl, William L., 3,481,195.
Hendrickson, Thomas A.; Williams, William J.; and Stahl, William L., 3,481,252.
Henle, Robert A., 3,441,912.
Henle, Robert A.; and Pricer, Wilbur D., 3,449,728.
Hertrich, Friedrich R., 3,462,751.
Hesse, Karl O. H., 3,424,913.
Hilpert, Fritz, 3,477,626.
Hinkein, Donald J.; and Liu, Der Sheng, 3,431,457.
Hoernes, Gerhard E.; and Weber, Edward V., 3,469,257.
Hoffman, Harry S., Jr.; and Lee, Hua-Tung, 3,443,195.
Hoffman, Harry S., Jr., 3,449,039.
Hoffman, Harry S., Jr.; and Lipp, James, 3,449,576.
Hollstein, Carl Paul, Jr., 3,422,336.
Holtzberg, Frederic; and Methfessel, Siegfried J., 3,427,134.
Hoskins,Thomas A.; and Klein, Walter F., 3,447,743.
Houck, William E.; Maerz, Michael O.; Oliver, Burton L.; and Silsbee, David L., 3,473,114.
Hsiao, Mu-Yue; and Sih, Kwang Y., 3,452,328.
Huckabee, James M., 3,430,005.
Im, Samuel S., 3,475,071.
Irvine, Gerald P., 3,485,688.
Irwin, John W., 3,444,541.
Ittner, William B., III, 3,481,185.
Jackowski, Charles S.; Jensen, Donald F.; Muller, Hans R.; Noll, Melvin R.; and Schaffer, Robert R., 3,466,610.
Jackson, Henry, 3,436,233.
Jackson, James S.; and Reeber, Morton D., 3,436,104.
Jacques, James O.; Montgomery, David; and Kuckein, Paul A., 3,479,493.
James, Richard N., 3,473,769.
Jenkins, Charles S., 3,431,050.
Jensen, Donald F., 3,433,257.
Jensen, Donald F.; and Muller, Hans R., 3,466,029.
Jensen, Roy A., 3,464,062.
Jensen, Roy A., 3,473,164.
Jensen, Roy A.; and Oldham, Ira B., 3,480,919.
Jensen, Roy Albert, 3,474,418.
Johnson, James L.; and Stephens, Harold C., 3,470,399.
Juliusburger, Hans Y.; and Stilwell, George R., Jr., 3,460,132.
Kagan, Morton R., 3,471,807.
Karner, Friedrich A., 3,427,472.
Karner, Friedrich A., 3,487,235.
Kay, Eric; and Sawatzky, Erich, 3,437,577.
Keefe, George E.; and Middelhoek, Simon, 3,466,640.
Keeler, Robert E.; Freeman, Don G.; and Van Blerkom, Richard, 3,473,132.
Kelly, Charles A.; and Pierson, Roland L., 3,443,227.
Kennedy, James J., 3,452,292.
Kennedy, Joseph C.; and Sorg, John H., Jr., 3,465,287.
Keslin, Robert, 3,463,910.
Keyes, Robert W.; and Weiser, Kurt, 3,440,497.
Keyes, Robert W., 3,445,827.
Khoury, Henri A., 3,451,311.
King, John H., Jr.; Tunis, Cyril J.; and Marcus, Mitchell P., 3,446,950.
Klein, William A., 3,486,149.
Knight, Robert D.; and Nepela, Daniel A., 3,427,949.

Koehler, Thomas R., 3,429,701.
Kohn, Gerhard; and Seitzer, Dieter, 3,445,682.
Konnerth, Karl L., Jr., 3,483,383.
Koretzky, Herman, 3,423,214.
Koretzky, Herman; and Schmeckenbecher, Arnold F., 3,483,029.
Koretzky, Herman, 3,485,725.
Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, 3,482,182.
Kozol, Eugene T.; and Pawletko, Joseph P., 3,443,181.
Krakinowski, Morris, 3,432,627.
Kren, John G.; Regh, Joseph; and Seto, David K., 3,419,956.
Krohl, Robert James; and Wajda, Edward Stanley, 3,437,890.
Krongelb, Sol, 3,451,864.
Krygowski, Matthew A., 3,437,938.
Kump, Herbert J.; and Stapper, Charles H., Jr., 3,475,737.
Kump, Herbert J., 3,478,334.
Kurzwell, Fred, Jr.; and Sordello, Frank J., 3,475,734.
Kwap, Theodore W.; and Ruoff, Carl E., 3,431,490.
Lagergren, Richard E., 3,442,465.
Lahr, Roy J., 3,433,564.
Lahr, Roy J., 3,442,582.
Lahr, Roy J.; Mix, Arthur L., Jr.; and Terwilliger, Herbert W., 3,485,245.
Laird, John D., 3,457,909.
Landauer, Rolf W., 3,435,307.
Langdon, Jack L.; and Pecoraro, Raymond P., 3,429,029.
Lasher, Gordon J., 3,427,563.
Lazarchick, Nicholas, Jr.; and Pearson, Kenneth A., 3,473,078.
Le Mehaute, Charles; Rocher, Edouard; Guesnier, Guy; and Vaesken, Roland, 3,442,774.
Lehman, Meir M.; and Rosenfeld, Jack L., 3,440,619.
Leilich, Hans-Otto G.; Rhodes, William H., Jr.; and Shutler, William F., 3,444,531.
Leilich, Hans-Otto G.; and Schmeckenbecher, Arnold F., 3,478,335.
Lem, Donald J.; and Spruth, Wilhelm G., 3,432,815.
Lenoble, Jean P.; Addy, John; and Piggin, Bruce P., 3,442,683.
Liander, Leonard E., 3,477,317.
Lipp, James, 3,460,883.
Litz, Frank A.; and Lynott, John J., 3,439,153.
Lloyd, Robert H.F., 3,479,233.
Locke, Charles H.; and Santillo, George R., Jr., 3,421,638.
Locke, Charles H., 3,476,152.
Loeffler, Karl H., 3,454,821.
Loeffler, Karl H., 3,480,817.
Lohmann, Adolf W., 3,421,809.
Lohmann, Adolf W., 3,427,586.
Lohmann, Adolf W., 3,437,824.
Lord, Philip A.; and Marcus, Mitchell P., 3,426,335.
Louis, Helmut P.; and Methfessel, Siegfried, 3,475,738.
Lozier, William B., Jr.; and Luciani, Joseph D., 3,482,210.
Luetze, Wilhelm O., 3,483,484.
Lynch, Robert J., 3,458,689.
Machmer, James A., 3,420,254.
MacSorley, Olin L.; Spencer, Dana R.; and Timm, Joe F., 3,484,592.
Mader, Siegfried R.; Nowick, Arthur S.; and Widmer, Hans, 3,427,154.
Maissel, Leon I.; and Wilcox, David L., 3,458,926.
Malaby, Davey L., 3,422,255.
Malaby, Davey L., 3,462,737.
Marchese, Michael A.; and Taft, Lewis G., 3,461,841.
Marinace, John C., 3,433,686.
Marinace, John C.; and Rutz, Richard F., 3,457,633.
Marinace, John C., 3,458,369.
Markey, Harold G., 3,458,665.
Martin, Robert W., 3,431,431.
Martin, Van C., 3,443,186.
Matick, Richard E.; and Sie, Charles H., 3,436,749.
Matick, Richard E., 3,460,111.
Max, Erhard; and Sincerbox, Glenn T., 3,430,212.
Max, Erhard; Kulcke, Werner W.; and Kosanke, Kurt M., 3,436,677.
May, Gordon H.; and Shepard, Joseph E., 3,441,188.
May, Gordon H., 3,478,467.
McCarthy, Thomas; Meagher, Philip F.; and Norman, Reini J., 3,460,091.
McGroddy, James C.; and Nathan, Marshall I., 3,458,832.
Mehta, Povindar K.; and Shah, Manesh J., 3,428,802.
Melas, Constantin Michael, 3,478,267.
Merrin, Seymour; Silver, Melvyn D.; and Suden, Edward M., 3,436,818.
Middelhoek, Simon, 3,427,600.
Middelhoek, Simon, 3,445,830.
Middelhoek, Simon, 3,466,635.
Milewski, Andrze, 3,462,743.
Miller, Lewis F., 3,429,040.
Mizzi, John V., 3,441,908.
Morrison, John R.; and Speliotis, Dennis E., 3,479,663.
Mueller, Francis Edward, 3,448,292.
Murphy, Daniel W.; Turnbull, John R., Jr.; and Walsh, James L., 3,483,398.
Mutter, Walter E., 3,451,866.
Mutter, Walter E.; and Totta, Paul A., 3,461,357.
Myers, Robert A.; and Pershan, Peter S., 3,432,224.
Myers, Robert A., 3,445,826.
Nallin, Eugene J., 3,435,440.
Napier, John; Sopher, Raeman P.; Totta, Paul A.; De Witt, David; and Karan, Clarence, 3,458,925.
Narken, Bernt; and Whitaker, Howard L., 3,437,505.
Nassimbene, Ernie G., 3,463,878.
Nathan, Marshall I.; and Smith, John E., Jr., 3,480,879.
Nelson, Paul E., 3,440,546.
Neufeld, Frederick R.; and Prater, Merle P., 3,484,318.
Newcomb, Charles E., 3,423,749.
Norton, David Elliott, 3,480,923.
Norwood, Richard E., 3,424,063.
O'Malley, Francis L., 3,421,099.
Oeters, Harold R.; and Maholick, Andrew W., 3,478,325.
Oliver, Burton L., 3,473,115.
Ordower, Robert, 3,461,318.
Orlando, Anthony W., 3,473,042.
Owen, Charles E.; Proudman, Antony; Taub, Daniel M.; and Warwick, William A., 3,432,830.
Panissidi, Hugo A., 3,422,538.
Parker, Gerald R.; and Verdibello, Ambrose A., 3,478,255.
Paulus, Erwin, 3,444,550.
Pawletko, Joseph P., 3,471,832.
Pecoraro, Raymond P.; and Bilous, Orest, 3,445,734.
Penoyer, Ralph F.; and Voegeli, Otto, 3,440,626.
Pierret, Jean Marc, 3,435,343.
Pike, Charles A.; and Woodland, Norman J., 3,470,320.
Pleshko, Peter, 3,479,523.
Plummer, William B.; Van den Honert, Taco H.; and Wilson, Melvin G., 3,479,026.
Pole, Robert V.; and Nunez, Jaen, 3,432,767.
Pole, Robert V., 3,440,560.
Pole, Robert V.; Myers, Robert A.; Barrekette, Euval S.; and Nunez, Jaen, 3,440,561.
Pole, Robert V.; and Barrekette, Euval S., 3,458,829.
Pole, Robert V.; Wieder, Harold; and Myers, Robert A., 3,466,110.
Pole, Robert V., 3,480,875.
Poliak, Richard M., 3,436,278.
Pomerene, James H.; and Melville, Richard W., 3,436,734.
Pomerene, James H., 3,453,597.
Potter, Macy; and Strogis, William J., 3,478,414.
Potts, Horton R.; and Speicher, Charles A., 3,420,719.
Pricer, Wilbur D., 3,449,727.
Radke, William A.; and Schomburg, John F., 3,432,669.
Rahenkamp, Robert A., 3,429,986.
Reap, William J., 3,487,233.
Reed, Leonard J.; and Morrison, John R., 3,451,128.
Regh, Joseph; Silvey, Gene A.; and Gardiner, James R., 3,436,259.
Reis, Joseph W.; and Adams, John M., 3,451,297.
Reisman, Arnold; and Leonhardt, Horst R., 3,480,491.
Riley, Joseph V., 3,460,243.
Rinaldi, Russell G.; and Moore, Brian B., 3,432,811.
Rinaldi, Russell G.; and Moore, Brian B., 3,445,641.
Rooney, James J., Jr., 3,445,756.
Roshon, David, Jr.; and Young, Thomas, 3,435,186.
Rothauser, Ernst H.; and Paulus, Erwin F., 3,431,355.
Rottmann, Hans R., 3,442,583.
Rottmann, Hans R., 3,457,422.
Rottmann, Hans R., 3,475,805.
Rousselot, Georges E., 3,434,867.
Rumble, Dale H., 3,467,777.
Rutz, Richard F., 3,445,686.
Rzant, Adolph W., 3,459,918.
Saia, Jerry; and Spencer, Daryl L., 3,471,651.
Sakalay, Fred E., 3,422,402.
Sakalay, Fred E., 3,436,744.
Sampson, Jay B.; and Woo, James J., 3,453,567.
Sass, William H., 3,487,202.
Schaefer, John O., 3,458,024.
Schaefer, John O., 3,478,196.
Schellenberg, Anselm Gotthard, 3,465,299.
Schillinger, Walter E., 3,478,328.
Schlaeppi, Hans P., 3,466,613.
Schlaeppi, Hans P., 3,480,914.
Schmeckenbecher, Arnold F., 3,466,620.
Schuler, Claus C., 3,451,845.
Schulz, Peter R., 3,432,282.
Schwartz, Bernard; and Turk, Harold L., 3,478,340.
Schweihs, Jess J., 3,443,442.
Schwenn, Carl W., 3,474,521.
Seeber, Robert R.; and Lindquist, Arwin B., 3,430,205.
Seitzer, Dieter, 3,445,828.
Seitzer, Dieter; and Luescher, Rolf, 3,452,291.
Shafer, Merrill W., 3,480,385.

Shattuck, Meredith D.; and Vahtra, Ulo, 3,484,237.
Shelton, Glenmore L., Jr., 3,466,603.
Shevel, Wilbert L., Jr., 3,427,602.
Shiber, Evelyn F.; and Shiber, Jerome A., 3,476,885.
Siegle, William T., 3,452,338.
Siemer, Glenn E., 3,485,486.
Simkins, Quinton W., 3,435,429.
Simkins, Quinton W.; and Vogl, Norbert G., Jr., 3,471,839.
Skarvinko, Eugene R., 3,466,172.
Smith, Robert, 3,424,927.
Smith, William V., 3,439,975.
Snoberger, Philip H.; and Russell, William J., 3,422,313.
Soltis, Frank G., 3,456,161.
Sordello, Frank J., 3,458,785.
Sorokin, Peter P., 3,483,486.
Spannhake, Henry K., 3,481,777.
Spears, Jesse W., 3,442,366.
Speliotis, Dennis E.; Morrison, John R.; Alstad, John K.; and Bate, Geoffrey, 3,453,646.
Spiro, Hans, 3,451,012.
Srinivasan, Rangaswamy, 3,427,241.
Srinivasan, Rangaswamy, 3,458,312.
Srinivasan, Rangaswamy, 3,480,441.
Stafford, Thomas S.; and Krygowski, Matthew A., 3,453,600.
Stapper, Charles H., 3,432,839.
Stapper, Charles H., Jr., 3,465,322.
Steckenrider, Ray N., 3,461,454.
Steranko, James J., 3,465,435.
Stockdale, Norman S., 3,429,989.
Strehl, Gerald K., 3,451,048.
Stricker, Alfred A.; and Walker, William J., 3,444,617.
Stuckert, Paul E., 3,432,685.
Stuckert, Paul E., 3,466,553.
Tang, Donald T., 3,427,444.
Tech, Donald D., 3,479,605.
Terry, David W., 3,483,527.
Thompson, Bernard F.; and McDonald, William L., 3,447,134.
Thompson, James O., 3,471,309.
Thompson, Leon J., 3,458,786.
Thorpe, Robert A., 3,422,304.
Tibbetts, Raymond E.; and Wilczynski, Janusz S., 3,433,558.
Tomasulo, Robert M.; Anderson, David W.; and Powers, Don M., 3,462,744.
Touw, Theodore R.; Swaney, Casper B.; and Atwood, Bruce C., 3,453,727.
Triebwasser, Sol, 3,459,944.
Uberbacher, Edward C.; and Lott, James S., Jr., 3,425,027.
Uberbacher, Edward C.; and Bolt, Murray H., 3,460,069.
Van Cleave, George W., 3,486,096.
van den Berg, Racime J., 3,472,971.
Veneziano, Philip J., 3,460,109.
Vinal, Albert W., 3,482,222.
Vinal, Albert W., 3,487,372.
Voegeli, Otto, 3,452,334.
Voegeli, Otto, 3,484,756.
Vogel, Siegfried Friedrich, 3,461,338.
Vogt, Edwin, 3,450,840.
Vogt, Jeary R., 3,450,131.
Von Feldt, John L., 3,423,641.
Walter, Gerhard, 3,439,918.
Wanek, Donald J., 3,481,597.
Wang, Chu Ping, 3,466,631.
Wang, Chu Ping, 3,466,632.
Weidenhammer, James A.; Wroblewski, Edward J.; and Barbeau, Raymond A., 3,465,320.
Weinberger, Arnold, 3,466,611.
Weinberger, Arnold, 3,475,621.
Weiss, Leonard, 3,458,719.
Whalen, Gerald W., 3,461,389.
Wiederhold, Gerald L., 3,453,681.
Wilcox, William L.; and Wagner, Richard E., 3,476,383.
Willcox, Frederick P.; and Smith, Newland F., 3,461,235.
Wissick, William P., 3,435,420.
Wissick, William P., 3,445,820.
Wittwer, Alvin L., 3,422,700.
Womack, Karl K., 3,440,612.
Woo, Paul W., 3,449,718.
Wood, Richard A., 3,471,342.
Woodberry, Paul T.; and Kortzky, Herman, 3,445,355.
Woodside, John R., 3,427,655.
Wortzman, Donald, 3,423,540.
Xylander, Melvin P., 3,432,831.
Yeh, Tsu-Hsing; and De Fries, Robert M., 3,478,253.
Yount, William R., 3,463,888.
Yourke, Hannon S.; and Fletcher, Royce W., 3,482,176.

International Chemical and Nuclear Corporation: *See*—
Glasky, Alvin J., 3,438,968.
Glasky, Alvin J., 3,484,521.

International Computer and Tabulators Limited: *See*—
Mitchell, Roy William; and Scarrott, Gordon George, 3,441,926.

International Computer Appliances Corp.: *See*—
Hoaglund, Paul A., 3,433,547.

International Computers and Tabulators Limited: *See*—
Ellis, Jonas; and Hamilton-Fey, John, 3,420,166.
Hamilton-Fey, John, 3,462,549.
James, John Bernard, 3,435,519.
Lee, Ronald Henry; and Keen, Albert John, 3,434,413.
Lee, Ronald Henry; and Keen, Albert John, 3,468,246.
Meldrum, Raymond Walter, 3,457,801.
Scarrott, Gordon George, 3,449,038.
Steptoe, Brian John; Hawgood, David; and Ties, Sidney, 3,459,847.
Tickle, Andrew Charles, 3,447,139.
Walsh, Charles Bernard; and Sturman, Geoffrey Wilfred, 3,448,906.
Woodley, Frank John; and Eyles, William Geoffrey, 3,469,150.

International Computers Limited: *See*—
Lee, Ronald Henry, 3,420,164.

International Concrete Systems Company: *See*—
Williams, Frank L., 3,468,988.

International Copper Research Association, Inc.: *See*—
Robey, Paul, 3,473,970.

International Crystal Manufacturing Co., Inc.: *See*—
Freeland, Royden R., 3,421,110.

International Datacon Inc.: *See*—
Gittings, Donald R., 3,458,123.

International Electric Fence Co., Inc.: *See*—
Hurst, Leonard L., Jr., 3,439,183.
Nellis, William M., 3,440,439.

International Enterprises, Inc.: *See*—
Tracy, Charles W.; and Coloney, Wayne H., 3,423,898.
Tracy, Charles W., 3,481,635.

International Equipment Company: *See*—
Barletta, Anthony J., 3,434,615.
Nejame, Samuel, Jr., 3,443,520.
Waye, William E.; and Kotsifas, Peter N., 3,444,695.
Waye, William E., 3,462,670.

International Flavors & Fragrances Inc.: *See*—
Blumenthal, Jack H., 3,463,818.
Blumenthal, Jack H., 3,487,102.
Blumenthal, Jack H., 3,487,118.
Freeman, Stanley K., 3,474,176.
Theimer, Ernst T.; Westbrook, John James, III; Wolt, John; and Quinn, Alton Dewitt, 3,449,407.

International Graphics and Packaging Corporation: *See*—
Gadiel, Peter, 3,455,498.

International Harvester Company: *See*—
Allori, Aldo; and Wilger, John A., 3,463,277.
Artman, Noel G., 3,425,754.
Ayranto, Roy, 3,423,030.
Barkstrom, Reynold; and Sutton, Ralph L., 3,448,565.
Barows, Arthur G., 3,422,611.
Barows, Arthur G.; Parrish, Edward W.; and Miner, Robert C., 3,442,380.
Barrett, Monroe C.; Kenna, Fenton L., Jr.; Nickla, Louis E.; and Clendenin, Wilbur H., 3,455,466.
Barrett, Robert D.; Ziskal, Joseph F.; and Morgan, Jerry E., 3,474,623.
Bauman, Jack L.; and Walker, John A., 3,428,134.
Bexten, Eugen, 3,452,842.
Blanton, Albert G.; and Cable, Wyatt T., Jr., 3,423,132.
Blanton, Albert G., 3,423,133.
Bornzin, James H., 3,424,471.
Bornzin, James H., 3,440,890.
Bornzin, James H., 3,450,033.
Bouet, Jacques, 3,431,714.
Bouet, Jacques E., 3,469,382.
Bouet, Jacques Eugeni, 3,473,309.
Broad, Charles, Jr., 3,425,385.
Butler, James F., 3,463,507.
Cellitti, Raymond A.; Plofsky, Erwin; and Solecki, Edward A., 3,481,186.
Clendenin, Wilbur H., 3,430,757.
Clendenin, Wilbur H.; Barrett, Monroe C.; Kenna, Fenton L, Jr.; and Fachini, Robert M., 3,446,370.
De Pauw, Richard A.; and Knapp, William H., 3,479,804.
De Pauw, Richard A.; and Knapp, William H., 3,482,577.
Deli, Jack M., 3,437,385.
Deli, Jack M.; and Hermiz, Ramiz Y., 3,447,837.
Deli, Jack M.; and Storck, Robert C., 3,451,727.
Deli, Jack M., 3,452,828.
Deli, Jack M.; Jacobsen, Walter C.; Fanslow, Ronald J.; and Mosquera, Hugo O., 3,452,835.
Deli, Jack M., 3,469,891.
Derr, Elmer B., 3,442,057.
DeVries, Charles V.; and Zimmerman, Arnold, 3,464,192.
DiVita, Fosco L.; Simak, Frank J.; and D'Alessandro, Andrew N., 3,486,417.
Duke, Edward D., 3,427,641.
Duke, Edward D.; and Hermiz, Ramiz Y., 3,479,754.

Dzianott, Tadeusz S., 3,422,805.
Gable, Wyatt T., Jr.; and Barfield, Charles G., 3,485,019.
Gaines, John W., 3,470,856.
Gaul, Edward M.; and Steingas, Richard R., 3,466,857.
Gehrke, Kenneth W., 3,463,559.
Geiger, Eugene J.; and Breen, Dale H., 3,475,804.
Graham, Robert L.; Fachini, Robert M.; and Kenna, Fenton L., Jr., 3,478,898.
Grichnik, Emil J., 3,451,201.
Grillot, Homer N., 3,468,575.
Guertler, Rudolf W., 3,424,137.
Guertler, Rudolf W., 3,425,635.
Guertler, Rudolf W., 3,430,866.
Guertler, Rudolf W., 3,435,811.
Guertler, Rudolf W., 3,469,793.
Hamouz, George J.; and Zurek, James W., 3,477,439.
Hermiz, Ramiz Y., 3,443,826.
Hermiz, Ramiz Y.; and Duke, Edward D., 3,462,860.
Hoch, Manfried L.; Zitko, Ronald F.; and Wilkins, James D., 3,427,753.
Jennings, Marvin D.; and Lech, Richard J., 3,438,200.
Johnston, Edward J., 3,431,710.
Johnston, Lawrence M., Jr., 3,426,874.
Johnston, Lawrence M., Jr.; and Dowler, Robert L., 3,470,763.
Jouveneaux, Roger Charles, 3,443,565.
Kamp, Ronald C., 3,422,802.
Kamp, Ronald C., 3,430,444.
Kamp, Ronald C., 3,470,692.
Kampert, Keith W.; and Houtz, Kenneth E., 3,434,766.
Kampert, Keith W., 3,462,861.
Kampert, Keith W., 3,463,284.
Keller, Arthur H., 3,439,683.
Kirchler, Lewis, 3,422,729.
Knapp, William H.; Gochanour, Caroll Q.; and De Pauw, Richard A., 3,464,419.
Knapp, William H.; and De Pauw, Richard A., 3,470,881.
Kowalik, Jhn J., 3,451,494.
Lech, Richard J., 3,446,021.
Lepp, Jacob H.; and Bottrill, Neil J., 3,448,930.
Lester, William D.; and Barrett, Monroe C., 3,464,190.
Lienemann, Darlo E.; and Stufflebeam, John F., 3,430,822.
Maddalozzo, Raymond J., 3,477,458.
May, Patrick L.; and Ralston, William K., 3,431,837.
May, Patrick L.; and Beyer, Ralph E., 3,446,369.
May, Patrick L.; and Beyer, Ralph E., 3,482,456.
May, Patrick L.; Vidrine, Clyde G.; and Beyer, Ralph E., 3,486,439.
McAdams, Allan C., 3,480,163.
McGrew, Charles B., Jr., 3,463,435.
McMillen, Russell G., 3,424,016.
Mecklin, Charles D., 3,423,913.
Mecklin, Charles D.; and Francis, James M., 3,463,397.
Mecklin, Charles D.; and Francis, James M., 3,479,766.
Miller, Robert H., 3,481,125.
Molzahn, Herbert W., 3,451,199.
Molzahn, Herbert W., 3,466,948.
Molzahn, Herbert W., 3,474,602.
Morgan, Jerry E., 3,424,473.
Morkoski, James, 3,442,336.
Morkoski, James, 3,463,242.
Morris, Hugh W., 3,425,714.
Morris, Hugh W., 3,464,347.
Nickla, Louis E.; Barrett, Monroe C.; and Kenna, Fenton L., Jr., 3,441,152.
Olsson, Nils O., 3,439,749.
Orendorff, John W.; Boetto, Charles; and Andersson, Ingemar R., 3,436,098.
Ornas, Theodore, Jr.; and Lewton, Deo, 3,430,229.
Packard, Norman M.; Squinto, Leonard O.; and Lezi, William, 3,463,057.
Packard, Norman M.; Squinto, Leonard O.; and Lenzi, William, 3,464,707.
Packard, Norman M.; and Cook, Howard R., 3,473,209.
Packard, Norman M.; and Lenzi, William, 3,476,099.
Palmer, John S., 3,430,992.
Panek, Bruno J.; and Woodring, Robert W., 3,422,612.
Parrish, Edward W., 3,425,494.
Pelz, Edward C., Jr.; and Guertler, Rudolf W., 3,446,440.
Phillips, Carmen S.; and Risum, H. Mervin, 3,462,922.
Pool, Stuart D.; and Steingas, Richard R., 3,430,425.
Pool, Stuart D.; and Morkoski, James, 3,430,583.
Pool, Stuart D.; and Reynolds, John F., 3,455,502.
Pool, Stuart D.; Svereika, Edward; and Thayer, Arlie J., 3,462,932.
Pool, Stuart D.; Everett, Charles V.; and Grillot, Homer N., 3,469,773.
Pool, Stuart D.; and Steingas, Richard R., 3,479,806.
Pool, Stuart D.; Svereika, Edward; and Middlesworth, Tommy A., 3,481,122.
Prosser, Clinton D., 3,425,422.
Quick, Donald J., 3,462,927.
Racine, Richard W.; and Colchin, Max E., 3,463,539.
Racine, Richard W.; and Colchin, Max E., 3,480,975.
Ralston, William K.; and Littlejohn, Bill R., 3,430,554.
Ralston, William K., 3,430,998.
Ralston, William K., 3,450,029.
Rice, Russell E., 3,435,904.
Richardson, Pierce F., 3,430,984.
Roberson, Raymond F., 3,448,815.
Rowland-Hill, Edward William; De Pauw, Richard A.; and Karlsson, Elof K., 3,481,342.
Ruhl, Charles A. L., 3,443,483.
Sammarco, Peter; and Everett, Charles V., 3,425,599.
Scarnato, Thomas J.; Gordon, Paul C.; and Morkoski, James, 3,471,167.
Schaible, Aaron M., 3,447,452.
Schuldt, Carl F., 3,441,302.
Selzer, Robert J., 3,473,797.
Shader, Benjamin A., 3,425,536.
Sherbinsky, Mark, III; and Lane, Millard J., 3,482,555.
Shore, Daniel B., 3,458,018.
Shumway, John E., 3,451,530.
Smith, Hugh Edward, 3,450,210.
Steingas, Richard R.; and Meitl, Harold G., 3,452,526.
Steingas, Richard R.; and Reynolds, John F., 3,452,527.
Steingas, Richard R., 3,485,021.
Steingas, Richard R.; and Gaul, Edward M., 3,486,316.
Stow, Robin J. W. C., 3,463,283.
Sullivan, Herbert D., 3,475,883.
Tausk, Edward F., 3,423,305.
Thatcher, Murray L., 3,424,326.
Thayer, Arlie J., 3,462,931.
Tracy, James T.; Hulseberg, Paul J.; and Sadler, James E., 3,422,607.
Van Buskirk, Ernest M., 3,481,343.
Wade, Ronald A., 3,463,213.
Walker, Dennis W.; and Bexton, Eugen, 3,477,518.
Walker, John A.; Henry, Daniel; and Lienemann, Darlo E., 3,483,755.
Ward, Gerald G., 3,433,118.
Ward, Gerald G., 3,439,748.
Weiss, Heinz, 3,430,438.
Wilson, Harry R., 3,437,184.
Woodring, Robert W., 3,422,692.
Woodring, Robert W.; Kowalik, John J.; and Panek, Bruno J., 3,423,920.
Zitko, Ronald F.; and Phillips, Carmen S., 3,439,479.

International Homes of Cedar, Inc.: *See*—
Straight, Carl J., 3,473,277.

International Inpak Incorporated: *See*—
Crane, William B., Jr., 3,470,675.

International Lead Zinc Research Organization, Inc.: *See*—
Noltes, Jan G., 3,461,147.
Overmars, Henricus Gerardus Josef; and Noltes, Jan Gerrit, 3,458,585.
Radtke, Schrade F., 3,458,355.
Worrel, Calvin J., 3,436,414.

International Machinery Corporation S.A.: *See*—
Hagerborg, John G., 3,473,644.
Mencacci, Samuel A., 3,443,352.
Mencacci, Samuel A.; and Hagerborg, John G., 3,462,003.
Mencacci, Samuel A.; and Hagerborg, John G., 3,469,671.
Mencacci, Samuel A., 3,478,677.
Vanhoegaerden, Raoul, 3,420,286.

International Mechanical Vibration Laboratory, Inc.: *See*—
Masuda, Masami, 3,467,925.

International Milling Company Inc.: *See*—
Borer, Alvin F., 3,481,745.

International Minerals & Chemical Corporation: *See*—
Army, Thomas J.; and Ohlrogge, Alvin J., 3,459,532.
Barry, Lewis Arthur; and Arveson, Elmer J., 3,425,819.
Baumann, Arthur N., 3,421,849.
Baumann, Arthur N.; and Roberts, Hugh H., 3,449,082.
Bell, Benjamin P.; and Roberts, Hugh H., 3,437,452.
Cords, Helmuth; and White, Carlos A., 3,420,933.
Rogoff, Martin H., 3,420,741.
Shearon, George B.; and Stevenson, Gerald L., 3,429,663.
Vasan, Srini, 3,440,033.

International Minerals and Chemical Corporation: *See*—
Nielsson, Francis T., 3,467,495.
Vasan, Srini, 3,476,544.

International Molding Machine Co.: *See*—
Church, Thomas A.; and Davis, George D., 3,478,812.

International Nickel Company, Inc., The: *See*—
Ashcroft, Thomas Brian, 3,479,258.
Betteridge, Walter, 3,429,698.
Betteridge, Walter; and Hope, James, 3,438,178.
Beutner, Heinz Paul; and O'Neill, Charles Edward, 3,445,356.
Bieber, Clarence G.; and Mihalisin, John R., 3,485,620.
Bieber, Clarence George; and Galka, John J., 3,459,545.
Buckland, Ivor John, 3,452,517.
Carriel, Jonathan Turner; and Hewitt, Earle Norman, 3,472,887.

Clappier, Robert R.; and MacQueen, Ewan C., 3,456,469.
Clark, Charles Alfred; and Berry, Roy David, 3,438,770.
Clark, Charles Alfred; Butt, Ronald John; and Mason, John Jefferson, 3,446,680.
Curlock, Walter; O'Neill, Charles E.; and Queneau, Paul E., 3,468,629.
Di Bari, George A.; Sample, Clarence H.; and Knapp, Burton B., 3,449,224.
Draney, John Joseph, Jr., 3,450,817.
Eiselstein, Herbert L.; and Bassford, Thomas H., 3,459,539.
Fletcher, Alfred John; and Richards, Edward Gordon, 3,466,171.
Harrington, John H.; and Prill, Arnold L., 3,481,714.
Hydrean, Peter Paul, 3,475,164.
Illis, Alexander; and Manson, Alan, 3,466,167.
Lunsford, Harod D., 3,422,706.
MacDonald, Donald Francis, 3,450,189.
Mayer, George; and Greenwood, Roger Kearsley, 3,432,291.
Raman, Rasipuram Subramanya Kalyana; and Tracey, Victor Allen, 3,451,809.
Renzoni, Louis S.; Di Bari, George Angelo; Knapp, Burton B.; and Carlin, Francis X., 3,437,571.
Rhoda, Richard N.; and Vines, Raymond F., 3,486,928.
Rhys, David Wade; and Berry, Roy David, 3,427,140.
Rhys, David Wade, 3,466,158.
Rhys, David Wade; Gainsbury, Peter Edward; and Savage, Ronald, 3,466,165.
Richards, Edward Gordon; Ward, David Marshall; Hales, Keith John; and Stephenson, Norman, 3,479,157.
Roberts, James E., 3,444,010.
Schelleng, Robert D.; and Kies, Frederick K., 3,485,683.
Schelleng, Robert Douglas, 3,421,886.
Schneider, Friedrich August, 3,455,741.
Silverstone, Norman Mark, 3,441,440.
Tracey, Victor Allen; and Raman, Rasipuram Subramanya Kalyana, 3,453,103.
Tuffnell, Glenn W.; and Floreen, Stephen, 3,453,102.
Tuffnell, Glenn W.; Novak, Charles J.; and Floreen, Stephen, 3,453,153.
Tyrrell, Colin John Nelson, 3,480,523.
West, De Witt Henry; and Simpson, Alexander Bowen, 3,445,555.
Witherell, Charles E., 3,466,422.

International Oil Burner Company: *See*—
Barbier, Jean Y., 3,473,006.

International Packaging Corporation: *See*—
Deshong, Elzie E.; and Palson, Richard C. J., 3,442,371.

International Packings Corporation: *See*—
Dahlheimer, John Charles, 3,443,814.
Workman, Woodrow Irwin, 3,477,731.

International Paper Company: *See*—
Baxter, Robert O., 3,442,402.
Elsevier, William; and Read, Douglas E., 3,463,685.
Hollis, Clinton R., 3,468,202.
Jones, Harold L., 3,421,976.
Leiter, Leigh D.; and Linda, Frank R., 3,481,528.
Linda, Frank R.; and Leiter, Leigh D., 3,484,515.
Mitzelfelt, Richard C.; Leiter, Leigh D.; and Junod, John E., 3,422,730.
Paquin, Leon J.; Mosher, Owen D.; and Violette, Glenn M., 3,448,000.
Radtke, Robert R.; and Arvanigian, George B., 3,486,681.
Simmons, Dayton Mark, 3,430,561.
Wannamaker, Thomas M.; Carter, Charles I.; and Rogers, Rupert O., 3,428,239.
Woodham, Samuel R.; Bradley, Eugene F.; and Collins, John D., 3,442,684.

International Patent Research Corporation: *See*—
Chow, Ho, 3,430,859.
Chow, Ho, 3,430,860.
Chow, Ho, 3,464,628.
Chow, Ho; and D'Angelo, George, 3,468,562.

International Patente Establishment: *See*—
Doring, Erich, 3,482,841.

International Patents & Development Corporation: *See*—
Price, Howard; Szilagyi, Bela; and Quinto, Mario, 3,481,268.

International Playtex Corporation: *See*—
Icken, Joseph M.; and Jahren, Eugene J., 3,448,189.
Krieger, Larry L., 3,459,193.
Sachs, Charles M., 3,478,747.
Salisky, Sallyann Z., 3,437,092.
Spanel, Abraham N., 3,455,306.

International Printers Limited: *See*—
Deighton, William Rupert, 3,441,486.

International Railroads' Weighing Corporation: *See*—
Buchman, Maurice J., 3,421,593.

International Rectifier Corporation: *See*—
Boyer, John L., 3,452,254.
Boyer, John L., 3,475,663.
Clark, Richard C., 3,422,212.
Coblenz, Abraham G., 3,462,655.
Coblenz, Abraham G., 3,475,660.
Danner, Jefferson D.; and Quatrochi, Lyle W., 3,445,738.
Dulin, Gerald F., 3,483,440.
Frasier, Jordan D., 3,421,512.
Gault, John M., 3,422,527.
Gault, John M., 3,423,652.
Gault, John M., 3,483,039.
Geib, Clarence B., Jr.; Jamison, George E.; and Scott, Jack N., 3,439,240.
Gift, Myrven F., 3,487,274.
Hauck, James; and George, Donald, 3,424,852.
Ortner, Ernst; and Hartman, Richard A., 3,449,642.
Parrish, Frank W., 3,435,891.
Parrish, Frank W.; and Dulin, Gerald F., 3,471,767.
Parrish, Frank W., 3,483,444.
Quatrochi, Lyle W.; and Danner, Jefferson D., 3,445,737.
Richmond, John; and Conn, Arnold, 3,422,340.
Roach, Thomas J., 3,471,341.
Scott, Angus A.; Boyer, John L.; and Hartman, Richard A., 3,428,871.
Topas, Benjamin, 3,421,962.
Topas, Benjamin; and Weinstein, Harold, 3,445,301.
Topas, Benjamin, 3,487,273.
Villax, Ivan, 3,432,394.
Weinstein, Harold, 3,441,811.
Weinstein, Harold, 3,445,687.
Weinstein, Harold; and Ortner, Ernst, 3,449,506.
Weinstein, Harold, 3,453,508.
Weinstein, Harold, 3,462,620.
Weinstein, Harold, 3,462,654.
Wislocky, Joseph, 3,427,395.
Yanai, Yigal, 3,440,454.

International Refrigeration Company, Inc.: *See*—
Ferry, John W., 3,435,630.

International Research & Development Company Limited: *See*—
Dowsett, Brian O.; and Appleton, Anthony D., 3,443,134.
Engel, Manfred Otto, 3,453,461.
Hayhurst, Michael John, 3,483,869.
Smart, Desmond, 3,456,651.

International Research and Development Corporation: *See*—
Kincaid, Harry R., 3,475,969.

International Rubber Industries, Inc.: *See*—
Weir, James D., 3,449,793.

International Salt Company: *See*—
Jacoby, Charles H., 3,421,794.
Jacoby, Charles H.; and Whelply, Frank V., 3,428,571.

International Shoe Machine Corporation: *See*—
Estabrooks, Roger S., 3,477,470.

International Sorting Systems: *See*—
Reichel, Richard A., 3,424,388.

International Standard Corporation: *See*—
Earp, Charles William; and Overbury, Francis Giles, 3,448,453.

International Standard Electric Corporation: *See*—
Adam, Ian Ross, 3,423,714.
Ahnert, Heinz, 3,450,954.
Andreae, John Hugh; Joyce, Peter Lawrence; and Gaines, Brian Ronald, 3,484,749.
Antell, George Richard, 3,427,516.
Arndt, Wolfgang, 3,483,516.
Augustin, Johann; Wenger, Joachim; Reichardt, Manfred; and Spiegler, Ewald, 3,459,890.
Avignon, Michel Louis, 3,430,225.
Avignon, Michel Louis, 3,470,488.
Baade, Otto, 3,467,787.
Baade, Otto; and Gasser, Lorenz, 3,482,051.
Barber, Donald Robert; and Nye, Richard Alfred, 3,441,866.
Bauer, Ludwig, 3,478,186.
Beadle, Anthony Crisp; and Garner, William, 3,433,276.
Bechler, Horst, 3,423,639.
Benmussa, Henri; Marty, Pierre Rene Louis; and Kobus, Stanislas, 3,441,675.
Bessler, Alfons; and Hackenberg, Walter, 3,446,918.
Blight, Dennis Jack; Boswell, Stanley Harold; and Damoisiaux, Anthony John, 3,462,727.
Bliss, Norman Stanley, 3,449,989.
Bogl, Manfred Walter, 3,454,736.
Braaten, Amund, 3,473,314.
Braaten, Amund; and Wilhelmsen, Willy, 3,478,505.
Braun, Reinhold; and Puteick, Johann J., 3,482,053.
Burian, Theodor; and Schoo, Hermann, 3,441,676.
Butcher, John Anthony Weeks; Pullum, Geoffrey George; and Willson, Michael John, 3,433,902.
Canceill, Bernard Jean-Jacques, 3,426,166.
Cattermole, Kenneth William; Barber, Donald Robert; and Lambourn, Edward Harry, 3,445,681.
Chatelon, Andre Edouard Joseph, 3,478,163.
Cohen, Daniel; and Dejean, Jacques Henri, 3,453,603.
Cooke, Reginald Benjamin William, 3,478,425.
Cornish, Eric Haydn, 3,445,439.
Cragg, William Donald; and Barnes, George J. P., 3,445,595.

Craven, George Frederick; Heeks, John Stuart; and Woode, Alan David, 3,422,364.
Cullis, Roger, 3,428,499.
Cullis, Roger, 3,473,975.
De Buck, Jean Jacques Rene Paul; and Trelut, Jean Marie, 3,483,524.
De Raedt, Egide Jacob Hendrik; De Bruyne, Georges Pieter Adolf Mathildis; and Staelens, Sylvere Jules, 3,487,172.
de Rivaz, John Chevalley, 3,461,450.
Deimling, Heinz; Holstein, Otto; and Heger, Ernst, 3,448,212.
Deimling, Heinz; and Lutz, Erich, 3,472,955.
Dejean, Jacques Henri; and Grandjean, Charles Henri Emile, 3,459,898.
Dietrich, Walter; and Schrempp, Winfried, 3,478,315.
Drake, Cyril Francis; Scanlan, Ian Francis; and Alexander, John Henry, 3,440,588.
Drake, Cyril Francis; Simpson, Walter Eric; and Robinson, John Sydney, 3,444,656.
Drake, Cyril Francis; and Gayford, Michael Lawrence, 3,445,596.
Duddridge, Geoffrey, 3,441,830.
Dupieux, Jacques Georges; and Pirotte, Alfred, 3,439,124.
Ernst, Wilhelm August, 3,473,088.
Fettweis, Alfred Leo Maria, 3,431,360.
Feustel, Ortwin, 3,467,954.
Frech, Gunther; Kaiser, Wolfgang; and Rahn, Herbert, 3,440,600.
Fulop, Walter; and de Bellini, Paul Charles Maria, 3,454,843.
Gaissert, Heinz; and Hiller, Johannes, 3,433,345.
Gasser, Lorenz, 3,454,726.
Gassmann, Gerhard-Gunter, 3,454,710.
Gerlach, Albrecht; Habicht, Manfred; and Richter, Edgar, 3,465,738.
Ghosh, Suhas, 3,454,890.
Glaudot, Jean-Paul, 3,475,569.
Glover, William Frank, 3,430,176.
Glover, William Frank, 3,467,930.
Gunst, Alfred, 3,430,167.
Haberle, Heinz, 3,453,551.
Harrett, Thomas, 3,478,287.
Heitmann, Herbert, 3,466,607.
Henquet, Andre Jean; Cavin, Robert Victor; and Feuillepain, Marcel, 3,466,606.
Herter, Eberhard, 3,441,683.
Herter, Eberhard, 3,454,724.
Herter, Eberhard, 3,478,175.
Hillmann, Otto, 3,423,637.
Hirst, Ian Johnson, 3,423,690.
Howells, George Aneurin; and Hunt, Geoffrey Allen, 3,421,148.
Howells, George Aneurin, 3,484,761.
Hunt, Robert William; Jones, Eric Lindsay; and Bonner, Peter, 3,420,988.
Jacobsen, Bent Bulow; and Roe, Frederick Ormesher, 3,428,898.
Jager, Karl, 3,449,655.
Jonsson, Per Gustaf; and Bogestam, Arne, 3,482,050.
Jonsson, Per Gustaf; and Bogestam, Arne, 3,487,174.
Judeinstein, Andre Jacques; and Tyszka, Jerzy Marek, 3,438,012.
Konold, Armin, 3,467,778.
Kupfmuller, Karl, 3,420,349.
Kurpisz, Zenon Jan; Connor, Gerald James; and Curtis, James Patrick, 3,435,515.
Latrubesse, Andre; Hullot, Maxime; and Govaerts, Gerard, 3,448,416.
Lees, John; and Gunn, Duncan Alexander, 3,423,983.
Leman, Hugh Spence; Barnes, George John Preston; and Green, John Uvedale, 3,440,362.
Leman, Hugh Spence; and Barnes, George John Preston, 3,448,217.
Lens, Georges Xavier; van Brabant, Jozef Maria; and Hendrickx, Franciscus Joannes Julia, 3,429,460.
Lewin, Leonard; Hodgson, Kenneth George; and Allen, Stanley George, 3,467,911.
Leyssens, Francois Jeanne Charles; and Ghys, Lodewijk Viktor Hendrik Maria, 3,469,312.
Lord, Michael Robert, 3,480,948.
Lovelock, Leonard Robert; Way, Kenneth Richard; and Wren, Robert Henry, 3,479,204.
Mann, Robert John, 3,482,134.
Martens, Jean Victor; and Natens, Marcel Clement Rene, 3,470,532.
Martens, Jean Victor, 3,482,180.
Marty, Pierre Rene Louis; and Kobus, Stanislas, 3,427,604.
Mash, Derek Hubert; and Peters, Jack Rowland, 3,470,378.
Mayer, Heinz, 3,447,807.
Mengelberg, Volker, 3,434,080.
Mirbeth, Heinz Georg, 3,483,492.
Mosebach, Wolfgang; Evans, William E. R.; and Stevens, Richard S., 3,470,307.
Mussbach, Horst Hermann, 3,430,165.
Myatt, Edward Ronald, 3,448,419.
Myatt, Edward Ronald; Loveland, Ernest Frederick; and Woodhead, Harry Stanley, 3,460,077.
Page, Peter Bernard, 3,454,903.
Pagel, Roland Camille, 3,440,614.
Peacock, Robert David, 3,436,809.
Peters, John William, 3,454,717.
Pfander, Hans; Schulz, Egon; and Wirth, Anton, 3,471,752.
Pickup, Clive Parnell; and Barton, John R., 3,461,372.
Price, John Clifford, 3,447,090.
Price, John Clifford; and Kitajewski, Ryszard, 3,460,128.
Reeves, Alec Harley; and Price, John Clifford, 3,430,228.
Reeves, Alec Harley; and Kitajewski, Ryszard, 3,470,387.
Regnier, Albert; Kevorkian, Kevork; and Bakka, Raymond, 3,482,226.
Reidel, Berthold, 3,441,723.
Rheingold, Michael; and Debrunner, Jean R. E., 3,470,440.
Roos, Heinz; and Semle, Hans, 3,445,783.
Rowley, Geoffrey Charles, 3,474,412.
Russell, Percy Arthur, 3,435,151.
Sandbank, Carl Peter, 3,434,008.
Sandbank, Carl Peter; and Butler, Michael Brian Neilson, 3,447,044.
Sandbank, Carl Peter, 3,453,502.
Sandbank, Carl Peter; King, George; and Marsh, Stanley Bruce, 3,479,611.
Scarr, Robert Walter Alister; Barnes, George John Preston; and Roworth, Donald Anthony Acott, 3,471,791.
Schiebeler, Werner, 3,437,744.
Schilling, Harald, 3,471,795.
Schluter, Heinz; and Schonemeyer, Hilmar, 3,423,537.
Schonemeyer, Hilmar; and Kollermann, Norbert, 3,443,034.
Schonemeyer, Hilmar; and Siegel, Herbert, 3,472,969.
Schuberth, Winfried, 3,487,171.
Schulz, Egon; and Hehnen, Jsef, 3,453,503.
Serrure, Andre Emile, 3,470,498.
Siegel, Herbert, 3,431,364.
Siegel, Herbert; and Hackenberg, Walter, 3,431,365.
Simon, Stephane Marcel Clement Victor, 3,470,425.
Smart, Kenneth J.; and Thomson, Peter J., 3,470,480.
Smitka, Wolfgang, 3,454,879.
Sterling, Henley Frank, 3,467,557.
Sterling, Henley Frank; and Swann, Richard Charles George, 3,485,666.
Strunk, Kurt, 3,440,581.
Tanner, Leslie A., 3,460,034.
Taysom, Patrick Arnold; and Kirk, Robert Edwin, 3,435,858.
Theunissen, Gerardus Wilhelmus, 3,425,026.
Thompson, Stewart Philip; and Delroy, William, 3,429,736.
Thyssens, Leo Maria Hendrik, 3,449,748.
Tilly, John Frederick, 3,482,059.
Tini, Dante, 3,483,898.
Toombs, Peter Alan Birrell, 3,485,739.
Tsui, Frank Fang, 3,457,555.
Tsui, Frank Fang, 3,474,424.
Turriere, Jean Emile, 3,470,464.
Ulrich, Friedrich, 3,441,907.
Ulrich, Friedrich, 3,459,959.
Ulrich, Friedrich, 3,460,133.
Ulrich, Friedrich, 3,467,785.
Ulrich, Friedrich, 3,470,534.
Underwood, John Duckles, 3,469,973.
Van Den Broek d'Obrenan, Gerard Marie Edouard; and Mercier, Jean-Francois Marie Maurice Edmond, 3,441,930.
Wall, Peter Kenneth, 3,440,575.
Weber, Josef, 3,483,491.
Weiss, Eberhard, 3,441,438.
Why, John Frederick, 3,450,846.
Why, John Frederick; and Papadopoulos, Athanasios, 3,467,788.
Wilhelmsen, Willy, 3,472,012.
Woodhead, Harry Stanley, 3,440,583.
Woodhead, Harry Stanley, 3,467,923.
Woodhead, Harry Stanley, 3,470,505.
Wright, Esmond Philip Goodwin, 3,427,400.
Zeiser, Walter; Loffley, Hans; and Kolb, Otmar, 3,450,841.

International Steel Company: *See*—
Sheckells, Amuel E., 3,473,261.

International Stock Food Corporation: *See*—
Frey, Edward C., 3,474,937.

International Synthetic Rubber Company Limited, The: *See*—
Bailey, Brian Edward; and Dando, Vivian Charles Owen, 3,480,576.
Duck, Edward William; and Thornber, Michael Neil, 3,433,778.
Duck, Edward William; and Thornber, Michael Neil, 3,458,488.
Duck, Edward William; and Ridgewell, Brian John, 3,480,604.
Evans, Reginald David; and Knights, Peter Brian, 3,422,682.
Friedl, Arno Rudolph; and Dingley, Roger Gavin, 3,437,519.
Friedl, Arno Rudolph; and Dingley, Regoer Gavin, 3,476,503.
Friedl, Arno Rudolph, 3,477,804.

International Systems & Controls Corporation: *See—*
Massey, Dulas L., 3,457,999.
International Telemeter Corporation: *See—*
Nyberg, John, 3,470,309.
Reiter, Abraham M.; and Court, Patrick R. J., 3,478,166.
International Telephone and Telegraph Corporation: *See—*
Aldridge, Charles A., 3,446,124.
Alexander, Donald C., 3,429,984.
Anhalt, John W., 3,461,533.
Baranoff, Albert J.; and Langheinrich, Wolfgang F., 3,429,258.
Berthold, Wolfgang K., 3,424,862.
Biggle, Laurence C., 3,472,458.
Biggle, Laurence C., 3,476,315.
Birkemeier, Henry Paul, 3,433,166.
Boehm, Guenter J., 3,440,452.
Boehm, Guenter Joachim, 3,439,125.
Bohne, Hugh; and Shelton, Cecil B., 3,484,314.
Bower, Richard R., 3,476,231.
Bower, Richard Raymond, 3,457,843.
Brown, Thomas G., 3,430,197.
Brown, Warren G., 3,437,755.
Brown, Warren G., 3,456,082.
Byer, Edward L., 3,422,218.
Carlson, Gilbert Fritz; and Dameron, Francis Eugene, 3,482,624.
Carmody, Doyle V., 3,440,492.
Carroll, James C., 3,435,360.
Clayton, Robert H., 3,432,711.
Clayton, Robert H., 3,436,551.
Clayton, Robert H., 3,441,786.
Clayton, Robert H., 3,448,210.
Clayton, Robert H.; and Eberhardt, Edward H., 3,454,809.
Conrad, Thomas Wesley; and McIver, William, 3,478,301.
Coppen, Peter J., 3,440,500.
Cotterman, Robert W., 3,467,826.
Cox, John E.; Hasser, George L.; Boehm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F., 3,467,780.
Cregeen, William George, 3,483,333.
Crowe, Kenneth R.; and Leiter, Howard A., 3,445,709.
Curran, John R., 3,461,736.
DeRose, Ralph A., 3,434,095.
DeRose, Ralph A., 3,465,891.
Deschamps, Andre; and Bernard, Nicolle Georgette Suzanne, 3,457,174.
Devitt, Douglas J., 3,484,341.
Doddington, Harold W., 3,423,531.
Doddington, Harold William, 3,444,327.
Ebhardt, Carl A., 3,459,895.
Edmonds, Thomas Rhys; Turnblade, Richard C.; and Speen, Gerald B., 3,451,289.
Erwin, Edson Lockwood; Field, Joseph Patrick; and Mahood, Robert John, 3,441,677.
Feldman, Theodore, 3,470,535.
Felsenheld, Robert A.; Hoffman, Murray; and Perrotti, Emmanuel J., 3,471,808.
Fling, John J.; Howard, Shirly L.; and Weil, Frederick M., 3,438,035.
Foote, Richard H.; and Holmquist, John A., 3,422,363.
Foote, Richard H., 3,424,940.
Franklin, William S., 3,449,640.
French, Heyward A., 3,444,471.
Giordano, Ames F.; and Caldwell, Walter H., 3,441,674.
Grayson, Richard D., 3,423,062.
Grayson, Richard D., 3,446,227.
Greenwood, Roger, 3,444,764.
Gutleber, Frank S., 3,422,348.
Gutleber, Frank S., 3,461,451.
Gutleber, Frank S.; and Krause, Irving A., 3,472,960.
Gutleber, Frank S., 3,484,554.
Hammer, Irving W., 3,444,555.
Hasser, George L., 3,483,331.
Hauer, Werner, 3,452,509.
Hestad, Alfred M., 3,443,125.
Hestad, Alfred M.; and Neel, Donald L., 3,482,052.
Himes, Don I.; and Schlisser, Gabor, 3,482,171.
Hirsch, Robert L., 3,443,742.
Hirsch, Robert L.; and Meeks, Gene A., 3,448,315.
Holliday, George E., 3,423,669.
Honig, Steven, 3,440,451.
International Telephone and Telegraph Corporation Limited: *See—*
Janetz, Ralph Walter, 3,457,869.
International Telephone and Telegraph Corporation: *See—*
Jovic, Nikola L., 3,452,158.
Karras, Ernest C.; and Dicius, Renualdas P., 3,440,593.
Kerseg, Kurt Carl; and Garcia, Rafael, 3,483,309.
Keyes, Jack; Greene, Robert R.; and Boesen, Thomas E., 3,467,014.
Kistler, Samuel S.; and Rue, Charles V., 3,427,759.
Kistler, Samuel S.; and Rue, Charles V., 3,481,723.
Laffert, Frederick W., Jr., 3,487,271.
Lane, John V., 3,475,717.
Lockshaw, William Paul, 3,447,099.
Majkrzak, Charles P., 3,447,314.
Majkrzak, Charles P.; and Polgar, Michael S., 3,449,589.
McNulty, John F., 3,445,729.
Menhennett, Gerald H., 3,438,046.
Miller, Thomas P., 3,431,363.
Muller, Peter, 3,424,900.
Murgio, Joseph M., 3,438,002.
Myers, Oscar, 3,467,945.
O'Connell, James A.; Zaratkiewicz, Edwin A.; and Curnan, Hugh J., 3,481,306.
Panek, George James; and Mocek, Aloysius M., 3,452,316.
Peterson, Walter E., 3,482,081.
Pickholtz, Raymond L., 3,453,870.
Pierrot, Andre; and Lescroel, Yves, 3,424,685.
Piotrowski, Henry Julius, 3,483,335.
Plouffe, Robert L.; and Schreiner, Stanley M., 3,467,782.
Powell, Ronald C., 3,459,262.
Powell, Ronald Cecil, 3,476,890.
Quinlan, Robert V., 3,461,231.
Ray, William A., 3,420,492.
Ray, William A., 3,422,851.
Ray, William A., 3,432,140.
Ray, William A., 3,442,287.
Ray, William A., 3,477,462.
Ray, William A., 3,481,363.
Ray, William Alton, 3,433,262.
Robinson, Myron L., 3,448,031.
Sanchez, John, 3,441,050.
Sapir, Said, 3,456,455.
Sassler, Marvin L., 3,444,393.
Sassler, Marvin L., 3,482,187.
Schor, Ferdinand William, 3,447,104.
Schor, Ferdinand William, 3,462,715.
Seemann, Donald Francis; Hestad, Alfred M.; and Jovic, Nikola Ljotic, 3,449,526.
Shanefield, Daniel J., 3,448,302.
Shanefield, Daniel J.; Battle, James H.; and Lighty, Paul E., 3,448,425.
Shanefield, Daniel J.; Battle, James H.; and Currier, Emery W., 3,453,583.
Shestag, Lowell Norman; and Kinaga, Thomas, 3,474,446.
Skullestad, Per S., 3,451,005.
Sommerud, Rolf Gunnar; Holmboe, Christian Fredrik; and De Lorme, James F., 3,447,081.
Spaulding, David B., 3,477,368.
Speen, Gerald B.; and Turnblade, Richard C., 3,446,082.
Taplin, Ronald H., 3,460,058.
Vallese, Lucio M., 3,484,787.
Vander Horn, John, 3,427,612.
Wallace, Milner W., 3,447,043.
Wilson, Augustus B., Jr., 3,442,136.
Wolfgang, Lozure G.; Carlo, Donald R.; and Clayton, Robert H., 3,436,590.
Wuellner, Louis E.; Stark, Jack L.; and Crawford, James D., 3,478,218.
Yuan, William Ke-Chin; Frisbie, Jack Gene; and Bull, James George, 3,452,157.
Yuan, William Ke-Chin, 3,482,055.
Internationella Siporex Aktiebolaget: *See—*
Olsson, Karl Gustav, 3,433,322.
Interpace Corporation: *See—*
Cummings, Howard B., 3,431,332.
Cummings, Howard B., 3,451,107.
Grudus, Gabriel M., Jr., 3,487,043.
Killian, Stanley C., 3,487,158.
O'Leary, John P., 3,432,026.
Rubin, Jack Alvin; and Gdula, Robert Anthony, 3,471,306.
Tashlick, Irving; Rutter, William H.; and Zak, William J., 3,442,849.
Valenziano, Frank P., 3,430,526.
Valenziano, Frank P., 3,432,176.
Interstate Engineering Corporation: *See—*
Smith, Randolph J.; and House, Kenneth R., 3,460,124.
Interstate Folding Box Company, The: *See—*
Kleingers, Alfred B., Jr., 3,420,362.
La Pierre, James F., 3,438,555.
La Pierre, James F.; and Staggs, Donald R., 3,482,758.
Nerenberg, Robert W.; and Reynolds, Richard P. W., 3,478,868.
Interstop AG: *See—*
Zehnder, Alfred, 3,484,026.
Interstruct Corporation: *See—*
Clements, Arthur C., 3,464,176.
Intertechnique: *See—*
Sanz, Robert, 3,443,778.
Intertherm, Inc.: *See—*
Barbier, Jean Y., 3,469,075.
Intertip A.G.: *See—*
Mittmann, Wolfgang M.; and Breidenbach, Gert, 3,481,444.

Intertrading Corporation Establishment: *See—*
Greger, Georg, 3,447,249.
Intra Products, Inc.: *See—*
Zykoski, Robert P., 3,439,796.
Intrater, Josef; and Hill, Lawrence R., said Intrater assor. to Electronics & Alloys, Inc. said Hill assor. to General Instrument Corporation. In-line thermoelectric assembly. 3,468,722, 9-23-69, Cl. 136-205.
Intrator, Charles. High intensity lighting fixture. 3,437,802, 4-8-69, Cl. 240-1.3
Intricate Machine ' Engineering Inc.:*See—*
Aijala, Sulo A., 3,481,224.
Intrinsics, Inc.: *See—*
Larsen, Marget A.; and Sickler, Earl E., 3,461,574.
Introl Corporation: *See—*
Olson, Ellis W., 3,422,280.
Intron International, Inc.: *See—*
Pintell, Robert H., 3,461,310.
Intrusion Prepakt, Inc.: *See—*
Rehmar, Solomon J., 3,453,832.
Inui, Toshiaki. Weft inserting method and apparatus. 3,446,038, 5-27-69, Cl. 66-84.
Inui, Toshiaki. Method of making an electric blanket. 3,478,422, 11-18-69, Cl. 29-611.
Inui, Tsuneo: *See—*
Kitamura, Yoichi; and Inui, Tsuneo,3,484,343.
Inuyama, Tadao: *See—*
Hiraga, Teitaro; Wakabayasi, Syoichi; Towtari, Yoshishiga; and Inuyama, Tadao,3,481,876.
Inuzuka, Hideo; and Wakatsuki, Masao. Process for preparing synthetic diamond by using direct electric current for heating. 3,436,182, 4-1-69, Cl. 23-209.9
Inuzuka, Keiichi: *See—*
Tanaka, Katsunobu; Kimura, Kazuo; Inuzuka, Keiichi; and Tokoro, Yoh,3,486,980.
Inventa A.G. fur Forschung und Patentverwertung: *See—*
Berther, Clau; and Sailer, Richard, 3,476,744.
Gabler, Rudolf, 3,432,468.
Gehring, Albert; and Sailer, Richard, 3,435,068.
Gehring, Albert; Schneller, Heinz; Fueg, Heinz; Haberthur, Kurt; and Matsuya, Koichi, 3,484,214.
Goossens, Gunter, 3,443,909.
Koch, Hans, 3,482,277.
Oswald, Walter, 3,471,622.
Schnider, Albert E., 3,429,927.
Schultze, Hans-Joachim; Zbinden, Walter; and Berther, Clau, 3,470,153.
Seifert, Paul; and Chen, Lung Pao, 3,475,132.
Inventex GmbH: *See—*
Kreidel, Hans, Sr.; and Kreidel, Hans, 3,466,068.
Kreidel, Hans, Sr.; and Kreidel, Hans, 3,473,832.
Inventio Aktiengesellschaft: *See—*
Hartmann, Johann G., 3,486,479.
Rufli, Anton, 3,486,101.
Inventions and Inventions Consultants, Inc.: *See—*
Hand, William C., 3,481,492.
Inventions Finance Corporation: *See—*
Tisserand, Henri Andre; and Saint Quentin, Roger, 3,438,535.
Inventions, Inc.: *See—*
Brazener, Harry M.; and Newman, Robert W., 3,477,893.
Lagman, Alfred W.; and Culver, Raymond L., 3,482,425.
Inventors and Investors, Inc.: *See—*
Lehovec, Kurt, 3,473,032.
Inventors Engineering Inc.: *See—*
Vik, Albam M., 3,426,929.
Vik, Albam M., 3,438,523.
Vik, Albam M., 3,438,669.
Inzerill, Andrew J. Automatic deodorant spray device for bathrooms and the like. 3,420,445, 1-7-69, Cl. 239-274.
Ion Company, The: *See—*
Simor, George G., 3,478,741.
Ion Physics Corporation: *See—*
Gale, Alfred J., 3,434,894.
King, William J., 3,472,751.
Ionescu, Alexandru: *See—*
Luca, Vasile; Runceanu, Gheorghe; Cosmescu, Ctin; and Ionescu, Alexandru,3,428,288.
Ionescu, Emil, to Ministerul Industriei Constructiilor de Masini. Machine for crumbling metallic chips. 3,462,088, 8-19-69, Cl. 241-186.
Ionic International, Inc.: *See—*
Barton, James, 3,444,802.
Ionics, Incorporated: *See—*
Giuffrida, Anthony J., 3,454,472.
Mc Rae, Wayne A.; and Goldstein, Arthur L., 3,485,576.
McRae, Wayne A.; and Katz, William E., 3,440,159.
McRae, Wayne A.; Brown, Daniel L.; and McGriff, Stuart G., 3,475,122.
Morgan, Alonzo W., Jr.; and Selmeczi, Joseph G., 3,476,600.
O'Connor, Thomas L.; Fredrickson, John B.; and Rosenberg, Norman W., 3,475,143.
Parsi, Edgardo J.; and McGriff, Stuart G., 3,433,726.
Parsi, Edgardo J.; and Szcur, Albert, Jr., 3,440,149.
Selmeczi, Joseph G., 3,420,773.
Sohn, Bernard I.; Eisenmann, John L.; and Alexander, Samuel S., 3,480,495.
Iordanidis, Demetre, to Dover Corporation, mesne. Overspeed control means. 3,474,886, 10-28-69, Cl. 187-29.
Iorillo, Anthony J., to Hughes Aircraft Company. Notation damped stabilized device. 3,442,468, 5-6-69, Cl. 244-1.
Iota-Cam Corporation: *See—*
Gosselin, Norman R., 3,434,775.
Ioviero, Frank: *See—*
Pelvin, Joseph V.; and Ioviero, Frank,3,451,601.
Iowa Manufacturing Company: *See—*
Hansen, Hans I., 3,478,972.
Pollitz, Harold C.; Schrimper, Vernon L.; and Fairchild, Louis F., 3,453,939.
Iowa Paint Manufacturing Company, Incorporated: *See—*
Coulter, John S., 3,445,410.
Iowa Plastics Engineering, Inc.: *See—*
Frederick, Eugene O., 3,455,079.
Iowa State University Research Foundation, Inc.: *See—*
Buchele, Wesley F.; and Denisen, Ervin L., 3,460,332.
Camp, Roger C., 3,487,388.
Handy, Richard L.; and Fox, Nathaniel S., 3,427,871.
Lalor, William F., 3,477,174.
Nasser, Essam, 3,467,936.
Sinclair, John C., 3,466,742.
Iowa, The State of: *See—*
Mc Callister, Joseph David; Mc Math, Allen M.; and Anderson, Darwin Arthur, 3,466,695.
Iozza, Emanuele. Combined pusher ship and pushed vessel structure for sailing on open sea. 3,485,200, 12-23-69, Cl. 114-235.
Ipco Hospital Supply Corporation: *See—*
Small, Martin H., 3,482,677.
Ippen, Jakob; and Muller, Erwin Alfons, to Farbenfabriken Bayer Aktiengesellschaft. Article and process for the production of bonds between metals and elastomers. 3,429,769, 2-25-69, Cl. 161-217.
Ippolito, Anthony C., to Wurlitzer Company, The. Electronic piano feedback reduction. 3,435,122, 3-25-69, Cl. 84-1.14
Ipsen Industries International Gesellschaft mit beschrankter Haftung: *See—*
Edler, Karl Heinz, 3,479,164.
Ipson, Don L., to Le Voy's Inc. Body waste receptor appliance. 3,481,336, 12-2-69, Cl. 128-283.
Irani, Keikhosrow, to Thermo Electric Co., Inc. Linearized thermocouple measuring circuit. 3,472,073, 10-14-69, Cl. 73-360.
Irani, Meherwan C. Ferrous metal refining. 3,424,574, 1-28-69, Cl. 75-53.
Irani, Riyad R.: *See—*
Carroll, Robert L.; and Irani, Riyad R.,3,437,438.
Carter, Richard P., Jr.; and Irani, Riyad R.,3,463,734.
Carter, Richard P., Jr.; Irani, Riyad R.; and Mitchell, Robert S.,3,449,410.
Crutchfield, Marvin M.; and Irani, Riyad R.,3,429,914.
Crutchfield, Marvin M.; and Irani, Riyad R.,3,470,243.
Crutchfield, Marvin M.; and Irani, Riyad R.,3,470,244.
Crutchfield, Marvin M.; and Irani, Riyad R.,3,474,133.
Crutchfield, Marvin M.; and Irani, Riyad R.,3,483,178.
Haynes, Richard T.; Irani, Riyad R.; and Langguth, Robert P.,3,475,293.
Irani, Riyad Rida, to Monsanto Company. Aminophosphonate herbicides. 3,455,675, 7-15-69, Cl. 71-86.
Irani, Riyad R.; and Mitchell, Robert S., to Monsanto Company. Process for preparing orthophosphorous acid. 3,427,129, 2-11-69, Cl. 23-165.
Irani, Riyad R.; and Mitchell, Robert S., to Monsanto Company. Process for preparing phosphonic acids. 3,449,409, 6-10-69, Cl. 260-502.4
Irani, Riyad R.; and Mitchell, Robert S., to Monsanto Company. Polymeric compositions. 3,470,112, 9-30-69, Cl. 260-2.
Irani, Riyad R.; and Mitchell, Robert S., to Monsanto Company. Process for preparing phosphonic acids. 3,475,486, 10-28-69, Cl. 260-502.4
Irani, Riyad R.; and Moedritzer, Kurt, to Monsanto Company. Organic phosphorus compounds. 3,438,902, 4-15-69, Cl. 252-153.
Irasek, Eugene H., to Security First National Bank, mesne. Random access storage and retrieval device. 3,429,436, 2-25-69, Cl. 209-72.
Irasek, Eugene H., to HF Image Systems, Inc. Multiple station random access storage and retrieval device. 3,438,000, 4-8-69, Cl. 340-172.5
Irasek, Eugene H., to HF Image Systems, Inc., mesne. Random access storage and retrieval device with look ahead. 3,482,687, 12-9-69, Cl. 209-80.5
Iravani, Hooshang. Ellipse circle drawing instrument. 3,469,319, 9-30-69, Cl. 33-30.

Irazoqui, Carlos A., to Ragen Precision Industries, Inc. Instant retrieval optical storage system. 3,421,802, 1-14-69, Cl. 312-183.
Irazoqui, Carlos A., to Ragen Precision Industries, Inc. Random access storage and retrieval system. 3,456,817, 7-22-69, Cl. 214-16.4
Irbrahim, Ghazi Z.: *See—*
O'Brien, John J.; and Irbrahim, Ghazi Z.,3,430,679.
Ireland, Frank E. Whip antenna with adjustable tuning. 3,474,453, 10-21-69, Cl. 343-745.
Ireland, Gerald B., to Caterpillar Tractor Company. Equalizer coil arrangement for DC commutators. 3,484,634, 12-16-69, Cl. 310-204.
Ireland, Gerald B.; and Witzenburg, Marion J., to Caterpillar Tractor Company. Cooling means for high speed heavy duty dyanamoelectric machines. 3,433,985, 3-18-69, Cl. 310-52.
Ireland, Henry R., to Mobil Oil Corporation. Process for preparing low freeze point hydrocarbon fuels. 3,436,336, 4-1-69, Cl. 208-66.
Ireland, Jack W. Storage, dispensing and filtering bag. 3,462,019, 8-19-69, Cl. 210-244.
Ireland, James D.: *See—*
von Stroh, Gerald F. H.; and Ireland, James D.,3,454,395.
Ireland, John W.; and Holloway, James C., to Bunker-Ramo Corporation, The. Thin-film resistor adjustment. 3,457,636, 7-29-69, Cl. 29-620.
Ireland, Reginald E. Model railway systems. 3,452,682, 7-1-69, Cl. 104-150.
Irgens, Finn T., to Outboard Marine Corporation. Lawn mower. 3,420,041, 1-7-69, Cl. 56-25.4
Irgens, Finn T., to Outboard Marine Corporation. Marine propulsion device. 3,431,882, 3-11-69, Cl. 115-17.
Irgens, Finn T., to Outboard Marine Corporation. Lawn mower. 3,433,498, 3-18-69, Cl. 280-47.11
Irgens, Finn T., to Outboard Marine Corporation. Vehicle track. 3,472,563, 10-14-69, Cl. 305-13.
Irgens, Finn T., to Outboard Marine Corporation. Apex seal for rotary combustion engine. 3,485,217, 12-23-69, Cl. 123-8.
Irick, Gether, Jr.; and Hawkins, Gary F., to Eastman Kodak Company. Preparation of m-aryloxyphenols. 3,487,114, 12-30-69, Cl. 260-613.
Irie, Tadasu; and Doi, Kaname, to Sumitomo Electric Industries, Ltd. Automatic brake with speed and throttle controls. 3,426,872, 2-11-69, Cl. 192-0.094
Irie, Toshiaki: *See—*
Sato, Katsuo; and Irie, Toshiaki,3,424,956.
Irik, Gijsbert W.: *See—*
Boersma, Rintje; and Irik, Gijsbert W.,3,485,971.
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotaka. N-(N-acylaminoacyl)-amino- acetonitriles. 3,467,691, 9-16-69, Cl. 260-465.
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori. Method for protecting against liver. damage using aminoacetonitrile derivatives. 3,462,533, 8-19-69, Cl. 424-304.
Irikura, Tsutomu; Sato, Shimao; and Shirai, Kazunari. Pyridazine derivatives. 3,485,838, 12-23-69, Cl. 260-250.
Irion, Reinhard; Kratt, Kurt Wilhelm; and Fischer, Winfried, to Hengstler, J., K.G. Setting device for key-operated presettable counters. 3,447,744, 6-3-69, Cl. 235-132.
Irish, Edwin F., to United States of America, Army. Dupli-functional articulator. 3,423,834, 1-28-69, Cl. 32-20.
Irish Mallsters Association, The: *See—*
Pollack, James Richard Allan; Pool, Alan Aldred; and Ellis, Graham John, 3,450,600.
IRL Daffin Associates, Incorporated: *See—*
Futty, Robert C.; and Kugle, John L., 3,469,824.
Irmler, Horst; and Voss, Bernhard, to Aktiengesellschaft Brown, Boveri & Cie. S.C.R. with emitter electrode spaced from semiconductor edge equal to 10 times base thickness. 3,449,649, 6-10-69, Cl. 317-235.
Irmscher, Klaus: *See—*
Kramer, Josef; Irmscher, Klaus; Halpaap, Herbert; and Freibsberg, Karl-Otto,3,433,805.
Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert,3,450,717.
Irmscher, Klaus; Kramer, Josef; Kraft, Hans-Gunter; and Kieser, Hartmut, to Merck, E., A.G. 4-Aryl-isoflavanoids. 3,471,520, 10-7-69, Cl. 260-345.2
Iron City Iron Works: *See—*
Roberts, Dan T., 3,479,230.
Ironees Company, The: *See—*
Lehrman, David, 3,447,488.
Szubin, Edward D., 3,440,198.
Ironmonger, Trevor: *See—*
Sadler, Brian; and Ironmonger, Trevor,3,475,303.
Irresberger, Hermann: *See—*
Jacobi, Oskar; Irresberger, Hermann; Ratz, Bodo-Werner; and Rieschel, Hans,3,437,010.
Irresberger, Hermann; Rieschel, Hans; and Ratz, Bodo-Werner. Mine roof supports. 3,436,922, 4-8-69, Cl. 61-45.
Irti, Ernest; and Mueller, John H., to Teledyne, Inc., mesne. Slide valves for full flow and fine metering. 3,432,141, 3-11-69, Cl. 251-172.
Irvin, Howard B.; and Mathias, James J., to Phillips Petroleum Company. Polymerization. 3,458,490, 7-29-69, Cl. 260-94.2
Irvin Industries Inc.: *See—*
Hatfield, John Edward, 3,423,804.
Hatfield, John Edward, 3,425,102.
Kenzie, Ernest Dennis, 3,431,376.
Rosenblum, Robert A., 3,424,134.
Wilson, Kenneth R. A., 3,452,951.
Irvine, Boyd W., Jr.; and Judkins, Kenneth R., to Reserve Mining Company. Grate bar for traveling grate conveyor. 3,420,512, 1-7-69, Cl. 266-21.
Irvine, Findlay, Limited: *See—*
Irvine, John A., 3,421,060.
Irvine, Gerald P., to International Business Machines Corporation. Method for printing circuit designs. 3,485,688, 12-23-69, Cl. 156-11.
Irvine, John A., to Irvine, Findlay, Limited. Apparatus for stabilising ships. 3,421,060, 1-7-69, Cl. 318-18.
Irving Air Chute Company, Inc.: *See—*
Melin, Edward Milton, 3,425,103.
Irving, Donald William: *See—*
McGee, Arthur L.; and Irving, Donald William,3,446,255.
Irving, Edgar W., Jr.; and Perkins, George R. Apparatus for making decorative plastic articles. 3,461,016, 8-12-69, Cl. 156-376.
Irving, Francis: *See—*
Bowman, Francis; Cooper, Albert Charles; and Irving, Francis,3,424,708.
Irving, Frank M., Jr.; and Schmidt, Albert S., to Alto Company. Silenced bread product depanning system. 3,438,522, 4-15-69, Cl. 214-309.
Irving Industries, Inc.: *See—*
Rosenblum, Robert A., 3,448,826.
Irwin, Charles W.: *See—*
Zelinski, Robert J.; and Irwin, Charles W.,3,458,739.
Irwin, Edgar L., to Westinghouse Electric Corporation. Electro-optical device having improved coupling. 3,431,421, 3-4-69, Cl. 250-211.
Irwin, George W., to Owens-Illinois, Inc. Glass Molding apparatus. 3,472,642, 10-14-69, Cl. 65-261.
Irwin, George, to Imperial Camera Corp. Flashcube sockets. 3,431,542, 3-4-69, Cl. 339-247.
Irwin, George. Camera with flashcube mechanism. 3,464,335, 9-2-69, Cl. 95-11.
Irwin, Jere F., to American Machine & Foundry Company, mesne. Bread bagger. 3,451,192, 6-24-69, Cl. 53-190.
Irwin, Jere F. Hydraulic man-positioner. 3,470,980, 10-7-69, Cl. 182-2.
Irwin, John W., to General Electric Company. Furnace humidifier mounting means. 3,431,903, 3-11-69, Cl. 126-113.
Irwin, John W., to International Business Machines Corporation. Tape inter-block gap size control. 3,444,541, 5-13-69, Cl. 340-174.1
Irwin, Lawrence F.: *See—*
Hunt, Robert G., 3,449,782.
Irwin, Malcolm F.; and Hampel, Frederick J. E., to Techniservice Corporation. Textile strand splice and method of forming same. 3,461,661, 8-19-69, Cl. 57-142.
Irwin, Malcolm F.; and Hampel, Frederick J. E., to Techniservice Corporation. Splicing of textile strands. 3,474,615, 10-28-69, Cl. 57-159.
Irwin, Malcolm F.; Musselman, Carl T.; and Stanley, Robert K., to Techniservice Corporation. Strand treatment. 3,440,701, 4-29-69, Cl. 28-72.
Irwin, Neil E. Lateral discharge farm wagon. 3,458,067, 7-29-69, Cl. 214-82.
Irwin, Robert M. Portable welding shop. 3,470,657, 10-7-69, Cl. 52-27.
Irwin, Sally J.: *See—*
Hunt, Robert G., 3,449,782.
Irwin, Wilfred W.: *See—*
Fuller, Forrest E.; and Irwin, Wilfred W.,3,445,705.
Isaacks, Dwight W.: *See—*
Rogers, Dick, 3,469,299.
Isaacs, Alvin: *See—*
Eichel, Bertram, 3,459,194.
Isaacs, Anthony Leonard; and Allen, Dennis William, said Allen assor to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the, and said Isaacs assor to Thorn Electronics Limited. Pulse frequency discriminators. 3,449,677, 6-10-69, Cl. 329-50.
Isaacs, Philip K., to Grace, W. R., & Co. Preparing a readily wettable cocoa-sugar composition. 3,472,658, 10-14-69, Cl. 99-26.
Isaacs, Philip K., to Grace, W. R., & Co. Vinyl-containing copolymer latex and method of preparing same. 3,472,807, 10-14-69, Cl. 260-29.6
Isaacs, Philip K., to Grace, W. R., & Co. Film coalesced latex impregnated paper and process therefor. 3,483,025, 12-9-69, Cl. 117-155.
Isaacs, Philip K.; and Guthrie, James L., to Grace, W. R., & Co. Process for impregnating paper with pH controlled latex. 3,483,014, 12-9-69, Cl. 117-62.

Isaacs, Robert G.: *See—*
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P.,3,430,448.
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P.,3,436,921.
Isaacson, Bruce G.: *See—*
Schroeder, Kenneth W.; and Isaacson, Bruce G.,3,449,663.
Isaacson, Henry V.: *See—*
Chambers, Robert R.; Isaacson, Henry V.; and Young, David W.,3,472,772.
Gower, Bob G.; Isaacson, Henry V.; and Young, David W.,3,485,762.
Rausch, Maurice K.; and Isaacson, Henry V.,3,427,177.
Isaacson, Henry V.; and Young, David W., to Sinclair Research, Inc. Hydrocarbon oil composition having improved low temperature pumpability. 3,454,379, 7-8-69, Cl. 44-62.
Young, David W.; and Isaacson, Henry V.,3,471,273.
Young, David W.; Ryan, Patrick W.; and Isaacson, Henry V.,3,446,740.
Isaacson, Max. Dual container work processing device. 3,448,747, 6-10-69, Cl. 134-120.
Isaacson, Max; and Smilg, Benjamin. Resuscitator. 3,425,409, 2-4-69, Cl. 128-28.
Isaacson, Robert B.: *See—*
Bierenbaum, Harvey S.; Isaacson, Robert B.; and Lantos, Peter R.,3,426,754.
Isaacson, Walter P. Marine anchor alarm. 3,428,942, 2-18-69, Cl. 340-29.
Isabellen-Hutte Heusler K.G.: *See—*
Thielmann, Konrad, 3,451,808.
Isack, Charles D. Fusible cycloaliphatic acetal polyipoxide- dicarboxylic acid reaction products. 3,438,849, 4-15-69, Cl. 161-170.
Isaksen, Robert A.: *See—*
Hahn, Frank J.; and Isaksen, Robert A.,3,480,574.
Isard, Arsene; and Weiss, Francis, to Ugine Kuhlmann. 1,3-Bis(hydroxy phenyl)-2-methylene propanes and 2-methyl-2-(ortho hydroxybenzyl)-2,3-dihydro- benzofurans. 3,472,879, 10-14-69, Cl. 260-346.2
Isard, Arsene: *See—*
Weiss, Francis; and Isard, Arsene,3,444,238.
Isbey, Edward W.; and De Berard, Charles J., to Best Plastic Products, Inc. Method of making cold formed transparent laminates. 3,453,165, 7-1-69, Cl. 156-235.
ISCO Optische Werke GmbH: *See—*
Kirchhoff, Kurt, 3,473,866.
Iseki, Hajime: *See—*
Iwasawa, Hiroshi; Inoki, Kazuyoshi; and Iseki, Hajime,3,452,539.
Iseki, Takeshi; Koga, Kosho; and Ito, Seiji, to Kanto Special Steel Works, Ltd. Sleeve roll. 3,426,414, 2-11-69, Cl. 29-129.
Isekil, Hajime: *See—*
Iwasawa, Hiroshi; Isekil, Hajime; and Hirano, Hiroshi,3,433,011.
Iseli, Robert W.: *See—*
Bonner, Glenn H.; Doman, Robert C.; Iseli, Robert W.; and Papa, Pellegrino,3,487,136.
Isenberg, Arnold: *See—*
Sandstede, Gerd; Isenberg, Arnold; and Pabst, Wilfried,3,472,697.
Isenberg, John F., Jr.: *See—*
Abbott, George F.; Ceonzo, Joseph A.; Isenberg, John F., Jr.; Johnson, Robert A.; and Regan, John M.,3,482,057.
Isenhardt, Friedel; and Schlegl, Franz, to Klockner-Humboldt-Deutz Aktiengesellschaft. Froth-flotation cell. 3,420,370, 1-7-69, Cl. 209-169.
Isenhour, Burthel B., 16% to Isenhour, R. B., Riggs, J. N., and Minns, L. E. Perceptual speed testing device. 3,426,450, 2-11-69, Cl. 35-22.
Isenhour, R. B., Riggs, J. N., and: *See—*
Isenhour, Burthel B., 3,426,450.
Iserman, Ernest J., to Molson Industries Limited-les Industries Molson Limitte. Flap opener. 3,481,097, 12-2-69, Cl. 53-3.
Isermann, Heinz: *See—*
Enke, Gerhard; and Isermann, Heinz,3,437,336.
Isgur, Irving E.; and Ohlson, John L., to Grace, W. R., & Co. Novel diene copolymers. 3,472,808, 10-14-69, Cl. 260-29.7
Ishibashi, Hiroaki: *See—*
Ushioda, Tsunezo; Nonaka, Katsuhiko; Yasueara, Minoru; Sato, Katsuya; Ompo, Takeshi; and Ishibashi, Hiroaki,3,476,647.
Ishibashi, Michio: *See—*
Kaname, Yuichi; Nagata, Takashi; Ishibashi, Michio; and Tsujimoto, Hiroshi,3,433,982.
Ishibashi, Yasuaki: *See—*
Mizutani, Yasuo; Sakamoto, Shoichi; and Ishibashi, Yasuaki,3,431,166.
Ishida, Eisuke: *See—*
Inami, Akira; Morimoto, Kazuhisa; and Ishida, Eisuke,3,464,819.
Ishida, Hideo: *See—*
Oka, Katsuaki; Tokiura, Shohei; Yamamoto, Tatsuo; Sasaki, Yoshikazu; and Ishida, Hideo,3,455,885.
Tokiura, Shohei; Ishida, Hideo; Sasaki, Yoshikazu; and Yamamoto, Tatsuo,3,454,537.
Ishida, Kengo: *See—*
Saruno, Rinjiro; and Ishida, Kengo,3,481,748.
Ishida, Seiichi; and Kawamura, Yuji, to Monsanto Company. α-Haloacetanilides as stunting agents. 3,475,155, 10-28-69, Cl. 71-76.
Ishida, Shin'ichi; Kato, Toshio; Kurihara, Masakazu; Takahashi, Yasunobu; and Fukuda, Hiromichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for stabilizing polyoxymethylene. 3,462,394, 8-19-69, Cl. 260-67.
Ishida, Shin'ichi; Kajihara, Akira; Tokushige, Akira; Ohki, Hayashi; and Sato, Kunio, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for purifying formaldehyde. 3,471,998, 10-14-69, Cl. 55-48.
Ishida, Shinichi; Fukuda, Horomichi; and Saito, Shizuko, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing polyoxymethylene copolymers. 3,457,233, 7-22-69, Cl. 260-73.
Ishida, Shinichi; and Ohama, Hiroshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process of producing polyoxymethylenes with high molecular weights. 3,420,797, 1-7-69, Cl. 260-67.
Ishida, Shinichi; Ohama, Hiroshi; and Matsumoto, Koichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process of producing polyoxymethylenes. 3,422,070, 1-14-69, Cl. 260-67.
Ishida, Shinichi; and Saito, Shizuko, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for the production of trioxane copolymer containing nitrogen. 3,422,074, 1-14-69, Cl. 260-67.5
Ishida, Shinichi; Sato, Kunio; Fujita, Norimasa; Fukuda, Hiromichi; Mori, Kyoichiro; and Kugler, Fritz, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the preparation of polyacetal resin. 3,470,135, 9-30-69, Cl. 260-67.
Ishida, Shiro; and Yoshida, Tokiyuki, to Nippon Oil and Fats Company Limited. Method of producing mercaptans. 3,459,809, 8-5-69, Cl. 260-609.
Ishida, Shuichi: *See—*
Sakurai, Yoshiaki; Ishizawa, Teruo; Ishida, Shuichi; and Sekine, Bunzo,3,449,342.
Ishida, Taizo. Automatic rotisserie apparatus. 3,442,202, 5-6-69, Cl. 99-421.
Ishida, Toyo. Blackboard. 3,432,944, 3-18-69, Cl. 35-66.
Ishida, Tsugio: *See—*
Takafuji, Hideo; and Ishida, Tsugio,3,470,739.
Ishida, Yuichi: *See—*
Ishihama, Atsumi; Ishida, Yuichi; and Nakanishi, Nobuharu,3,443,563.
Ishige, Sadao: *See—*
Imamiya, Hitoshi; Katayama, Shizuo; Matsukawa, Hiroharu; Kobayashi, Teruo; and Ishige, Sadao,3,463,655.
Ishihama, Atsumi; Ishida, Yuichi; and Nakanishi, Nobuharu. Vaginal suppository. 3,443,563, 5-13-69, Cl. 128-271.
Ishihara Kikai Kogyo Co., Ltd.: *See—*
Ishihara, Masamitsu, 3,472,128.
Ishihara, Masamitsu, to Ishihara Kikai Kogyo Co., Ltd. Rock drills. 3,472,128, 10-14-69, Cl. 92-172.
Ishihara, Masuo. Anchor bolt. 3,456,551, 7-22-69, Cl. 85-79.
Ishihara, Motoi. Apparatus for the testing and measurement of visual power. 3,443,865, 5-13-69, Cl. 351-31.
Ishihara, Tetsuo: *See—*
Konishi, Hikoichi; Harada, Yuichi; Sunahara, Tamotsu; Sakaguchi, Yasuhiro; and Ishihara, Tetsuo,3,459,591.
Ishihara, Yasumasa: *See—*
Inaba, Seiuemon; and Ishihara, Yasumasa,3,482,357.
Ishihara, Yoshimi: *See—*
Oda, Kenichi; and Ishihara, Yoshimi,3,481,289.
Ishii, Ichiro, to Jintan Terumo Co., Ltd. Packaging of hypodermic needle assembly. 3,435,944, 4-1-69, Cl. 206-43.
Ishii, Ichiro, to Jintan Terumo Co., Ltd. Method of printing and baking scales on glass thermometers. 3,454,387, 7-8-69, Cl. 65-60.
Ishii, Kaoru: *See—*
Suzuki, Toshi; and Ishii, Kaoru,3,443,040.
Ishii, Keiichiro: *See—*
Uebayashi, Yuzuru; Sakimoto, Reiji; Ishii, Keiichiro; Asada, Mitsuo; and Taniguchi, Takuzo,3,427,385.
Ishii, Sumihiro: *See—*
Uzu, Keizo; Takahira, Hiroshi; Kato, Hiromasa; Sugiyama, Noriyuki; Haneda, Tomotsune; and Ishii, Sumihiro,3,424,743.
Ishii, Tadashi: *See—*
Yanagisawa, Akimasa; Kanbe, Kenichi; Sano, Tsunenori; and Ishii, Tadashi,3,427,112.
Ishii, Toshio, to Hamada Printing Press Mfg., Co., Ltd. Mechanism for mounting wrap-around plates on the impression cylinder. 3,434,415, 3-25-69, Cl. 101-415.1
Ishii, Toshio; Takamatsu, Yasuto; Yurigi, Shojiro; and Masuda, Katsutada, to Takeda Chemical Industries, Ltd. Composition for the treatment and/or prevention of coccidiosis in poultry. 3,483,292, 12-9-69, Cl. 424-251.
Ishii, Yoshio; and Sakai, Shizuyoshi, to Argus Chemical Corporation. Redox polymerization system including an oxazirane. 3,446,752, 5-27-69, Cl. 252-426.

Ishii, Yoshio: *See—*
Seto, Ichiro; Tanaka, Humikazu; Ishii, Yoshio; Nagae, Yuji; and Kitakata, Setsuo,3,449,405.
Ishii, Yoshiteru; and Inokuchi, Takashi, to Nippon Electric Company, Limited. Delay time control system for signal check or correction. 3,453,592, 7-1-69, Cl. 340-146.1
Ishikawa, Hidehiko; Sato, Mikio; and Matsui, Kazuo, to Keuffel & Esser Company. Silver halide element containing a developer and aromatic sulfinic acid stabilizers. 3,466,173, 9-9-69, Cl. 96-95.
Ishikawa, Hideo: *See—*
Sugiura, Shotaro; Ueno, Haruo; Nakatomi, Shunsuke; Ishikawa, Hideo; and Inoue, Tosihiro,3,423,387.
Ishikawa, Hisako: *See—*
Inoue, Michiro; Ishikawa, Masayuki; and Ishikawa, Hisako,3,467,663.
Ishikawa, Hisao: *See—*
Takada, Toshihisa; Ishikawa, Hisao; Tado, Keishi; and Matsui, Yukio,3,481,782.
Ishikawa, Jiro: *See—*
Tanaka, Shigefumi; Ishikawa, Jiro; Matumoto, Tosiaki; and Kovacs, Lajos J.,3,469,403.
Ishikawa, Kazuo; and Iwaki, Koichi, to Jeco Co., Ltd. Tuning fork assembly for use with rotary timepiece movement. 3,485,032, 12-23-69, Cl. 58-23.
Ishikawa, Kunio: *See—*
Hayakawa, Masashi; Kadotani, Makoto; and Ishikawa, Kunio,3,427,125.
Ishikawa, Masayuki: *See—*
Inoue, Michiro; Ishikawa, Masayuki; and Ishikawa, Hisako,3,467,663.
Ishikawa, Nobuo: *See—*
Hasegawa, Noboru; Ishikawa, Nobuo; and Kondo, Susumu,3,463,751.
Ishikawa, Sadao. Combinational plastic hanger-board construction. 3,452,959, 7-1-69, Cl. 248-488.
Ishikawa, Shoichi, to United Shoe Machinery Corporation. Frictional drive speed changer. 3,469,463, 9-30-69, Cl. 74-206.
Ishikawa, Tadayuki: *See—*
Ichimori, Masuo; and Ishikawa, Tadayuki,3,462,769.
Ishikawa, Takao: *See—*
Onishi, Akira; Ishikawa, Takao; Sakata, Ryozo; Fujio, Ryota; and Tsuruta, Teiji,3,467,624.
Ishikawa, Toshio; and Noda, Koji, to Minolta Camera Kabushiki Kaisha. Sensitized paper development device. 3,442,589, 5-6-69, Cl. 95-77.5
Ishikawa, Tunezo: *See—*
Mori, Kan; Suminoe, Taro; Yamazaki, Tamotu; Ishikawa, Tunezo; and Kogure, Akira,3,479,331.
Ishikawajima-Harima Jukogyo Kabushiki Kaisha: *See—*
Akita, Yoshio; Maeda, Toyoo; and Yada, Toshio, 3,464,175.
Kano, Saburo; Yamada, Yoshio; and Watanuki, Shigeo, 3,429,675.
Komatsu, Toshiro; and Ujihara, Akira, 3,476,263.
Moriyama, Kazuhiro; and Hori, Toshimitsu, 3,429,336.
Nakamura, Hajima; and Akita, Yoshio, 3,484,930.
Nakamura, Hajime; Hori, Toshimitsu; and Sezaki, Kazuo, 3,429,695.
Nakamura, Hajime, 3,432,368.
Nakamura, Hajime; and Wada, Kamekichi, 3,463,677.
Oguri, Fujio; and Tsutsumi, Teruo, 3,482,714.
Sagae, Makoto, 3,456,739.
Shimizu, Makoto; Seki, Masao; and Nishizaki, Shinji, 3,452,968.
Tachimoto, Kazuo; Kamoshida, Tsugio; and Akagawa, Tsugio, 3,429,362.
Ishikura, Morizo: *See—*
Murakami, Zenzi; Ishikura, Morizo; and Manami, Masahiro,3,440,689.
Ishimaru, Yoshino,: *See—*
Ueno, Akira; Matsuzaki, Etsuko; Momoki, Yoshio,; Ishimaru, Yoshino,; Saito, Gosaku,; and Sakai, Sumio,,3,420,859.
Ishimatsu, Tsuyoshi. Alkali chloride electrolytic mercury cells. 3,445,374, 5-20-69, Cl. 204-270.
Ishimitsu, Akitoshi; Sugahara, Kinichi; Arakawa, Saburo; and Kitazawa, Tadao, to Yawata Iron & Steel Co., Ltd., and Kowaseiko Co., Ltd. Process of obtaining a granular charge for the blast furnace from a pyrite cinder and iron manufacture dust or powdered iron ore. 3,482,964, 12-9-69, Cl. 75-5.
Ishimoto, Kunio; and Tanaka, Kozo, to Nippon Electric Company, Limited. Cascaded transistor amplifiers. 3,470,485, 9-30-69, Cl. 330-21.
Ishimoto, Nobuo: *See—*
Kawai, Kaiji; Hisada, Tadashi; and Ishimoto, Nobuo,3,425,820.
Ishimura, Kazukiyo: *See—*
Mochida, Yasunori; Kurokawa, Ikuji; Ishimura, Kazukiyo; and Sotome, Hiromi,3,464,514.
Ishiwara, Yoshimi: *See—*
Nagakura, Akira; Iyoshi, Koichi; Kuribara, Tomio; and Ishiwara, Yoshimi,3,453,840.
Ishiwata, Mamoru, to Fuji Shashin Film Kabushiki Kaisha. Defoaming apparatus. 3,425,951, 2-4-69, Cl. 252-361.
Ishiwata, Yukio: *See—*
Takahashi, Minoru; and Ishiwata, Yukio,3,485,156.
Ishiyama, Taro: *See—*
Yamamura, Yuichi; and Ishiyama, Taro,3,452,144.
Ishizaki, Akira, to Meidensha Electric Mfg., Co., Ltd. Starting circuit for a synchronous motor. 3,449,652, 6-10-69, Cl. 318-181.
Ishizaki, Kan; and Noto, Hajime, to Shingu Shoko, Ltd. Cutter. 3,430,343, 3-4-69, Cl. 30-276.
Ishizaki, Keizo: *See—*
Torigai, Yasuo; and Ishizaki, Keizo,3,456,295.
Ishizaki, Yasutaro: *See—*
Nakamura, Hiroshi; Manmo, Shiro; Ishizaki, Yasutaro; Saito, Tokuji; and Kato, Kin,3,473,288.
Ishizawa, Kazuhiro: *See—*
Kogo, Masanori; and Ishizawa, Kazuhiro,3,430,174.
Ishizawa, Masahiko, to Nippon Kokuyu Tetsudo. Resilient railway wheel and axle drive. 3,453,971, 7-8-69, Cl. 105-131.
Ishizawa, Shingo: *See—*
Mikoshiba, Tomoyoshi; Suzuki, Yasuo; and Ishizawa, Shingo,3,476,674.
Ishizawa, Teruo: *See—*
Sakurai, Yoshiaki; Ishizawa, Teruo; Ishida, Shuichi; and Sekine, Bunzo,3,449,342.
Ishizu, Yoshio: *See—*
Kubota, Hiroyuki; Mimino, Tohru; Fukuda, Yuh; Ishizu, Yoshio; and Nago, Toshio,3,443,934.
Ishizuka Garasu Kabushiki Kaisha: *See—*
Seki, Shigeru; and Utsumi, Hiroshi, 3,464,806.
Ishizuka, Yoshio: *See—*
Negishi, Eiichi; Horike, Akihiro; and Ishizuka, Yoshio,3,467,626.
Isjun, Alexandr Kononovich: *See—*
Butkevich, Vladimir Alexandrovich; Evteev, Dmitry Petrovich; Karpeka, Viktor Alexandrovich; Pravdin, Viktor Sergeevich; and Isjun, Alexandr Kononovich,3,438,425.
Isler, Eduard W., to Smith, A. O., Corporation. Electromagnetic contactor unit. 3,458,838, 7-29-69, Cl. 335-132.
Isley, Nathaniel Edward; and Jacks, Herbert E. M., to Wiley Manufacturing Company. Portable dredge. 3,430,920, 3-4-69, Cl. 254-185.
Isley Ralph E.; and Blower, Kenneth E., to Standard Oil Company, The (Ohio). Method of making impact resistant nitrile polymer films. 3,458,617, 7-29-69, Cl. 264-206.
Isley, Ralph E.; and Adams, Richard C., to Standard Oil Company, The (Ohio). Impact resistant nitrile polymer articles. 3,437,628, 4-8-69, Cl. 260-31.8
Isley, Ralph E.; and Adams, Richard C., to Standard Oil Company, The (Ohio). Polyolefin-polyacrylonitrile laminate and method of making same. 3,453,173, 7-1-69, Cl. 161-190.
Isley, Ralph E.; and Adams, Richard C., to Standard Oil Company, The (Ohio). Acrylonitrile polymer-wood laminated articles. 3,476,643, 11-4-69, Cl. 161-251.
Isley, Ralph E.; Adams, Richard C.; and Ball, Lawrence E., to Standard Oil Company, The (Ohio). Process for producing biaxially stretched films from a nitrile polymer solution and product. 3,437,717, 4-8-69, Cl. 260-881.
Ismail, Mohamed Roshdy: *See—*
Kotzsch, Hans-Joachim; and Ismail, Mohamed Roshdy,3,446,774.
Ismail, Mohamed Roshdy, to Dynamit Nobel Aktiengesellschaft. Cuprous salt-amine catalyzed phenol polymerization in presence of alkali metal phenolate. 3,442,855, 5-6-69, Cl. 260-47.
Ismail, Mohamed Roshdy; and Kotzsch, Hans-Joachim, to Dynamit Nobel Aktiengesellschaft. Process for preparing organosilicon nitrogen compounds. 3,481,964, 12-2-69, Cl. 260-448.2
Ismail, Roshdy M.: *See—*
Kotzsch, Hans-Joachim; and Ismail, Roshdy M.,3,423,361.
Kotzsch, Hans-Joachim; and Ismail, Roshdy M.,3,423,362.
Ismail, Roshdy M., to Dynamit Nobel Aktiengesellschaft. Film-forming polymeric organic compound stabilized against ultraviolet light degradation with a ketophenoxy silane. 3,431,129, 3-4-69, Cl. 106-187.
Ismay, Louis Fletcher. Speed shoes. 3,442,242, 5-6-69, Cl. 114-67.
Ismay, Louis Fletcher. Speed shoes. 3,459,147, 8-5-69, Cl. 114-67.
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; and Ikeda, Takeshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Funnel spinning of viscose rayon filaments. 3,431,336, 3-4-69, Cl. 264-169.
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; Ikeda, Takeshi; Nakajima, Eizo; and Kobatake, Takashi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the high-speed spinning of viscose filaments. 3,452,129, 6-24-69, Cl. 264-180.
Isobe, Kosaku; and Kakiage, Seinosuke, to Kokusai Denki Kabushiki Kaisha. Heat treatment apparatus for a travelling yarn or yarns. 3,449,549, 6-10-69, Cl. 219-388.
Isofilm International: *See—*
Roman, Leonard F.; and Elliott, George H., 3,437,734.
Isogai, Yuzuru: *See—*
Yamauchi, Saburo; Taura, Teruchika; Isogai, Yuzuru; and Seino, Hideki,3,469,372.

Isogawa, Masataka, to Kanegafuchi Chemical Industry Co., Ltd. Thermoplastic resinous blends of alpha methyl styrene-methyl methacrylate copolymers with graft copolymers. 3,463,833, 8-26-69, Cl. 260-876.
Isolated Beef Protein Supplements, Inc.: *See—*
Lipner, Stuart, 3,449,124.
Isom, Jessie Tom: *See—*
Flickinger, Earl Dan; and Isom, Jessie Tom,3,436,429.
Isomura Sangyo Kaisha, Ltd.: *See—*
Kiyohara, Shinzo; and Shibasaki, Yasuichi, 3,434,905.
Ison, Robert C., to V-M Corporation. Noise control circuit. 3,478,271, 11-11-69, Cl. 325-478.
Iso/Serve, Inc.: *See—*
Fitzgerald, Joseph J.; and Brownell, Gordon L., 3,421,001.
Isotopes, Inc.: *See—*
McCall, Richard C., 3,471,699.
Isowa, Yoshikazu, to Toyo Koatsu Industries, Incorporated. Organic imino compound metal halide complexes and process for producing the same. 3,441,579, 4-29-69, Cl. 260-429.5
Israel, Jack D., to North American Rockwell Corporation. Dividing circuit with binary logic switch in feedback circuit to change dividing factor. 3,484,699, 12-16-69, Cl. 328-46.
Israel, Michael G.: *See—*
Perrino, Albert C.; and Israel, Michael G.,3,479,408.
Israel Mining Industries-Institute for Research and Development: *See—*
Ben-Moshe, Shemayahu; Shorr, Leonard Marshall; and Sofer, Noah, 3,475,401.
Israel Mining Industries-Institute of Research and Development: *See—*
Shorr, Leonard Marshall; and Sofer, Noah, 3,470,147.
Israel Petrochemical Enterprises Ltd.: *See—*
Ben-Moshe, Shemayahu; Shorr, Leonard Marshall; and Sofer, Noah, 3,475,401.
Shorr, Leonard Marshall; and Sofer, Noah, 3,470,147.
Israel, Robert D.: *See—*
Peck, Albert C.; and Israel, Robert D.,3,481,705.
Israel, State of, Prime Minister's Office, The:*See—*
Zilkha, Albert; and Avny, Yair, 3,441,526.
Israelson, Arlo F., to Eriez Manufacturing Company. Turn-off permanent magnet. 3,452,310, 6-24-69, Cl. 335-286.
Israelson, Arlo F.; and Tenpas, Emerson J., to Eriez Manufacturing Company. Permanent magnetic pulley. 3,454,913, 7-8-69, Cl. 335-306.
Israelson, Gosta. Gasoline mileage gage. 3,446,066, 5-27-69, Cl. 73-114.
Isreeli, Jack: *See—*
Bilichniansky, Theodore; Isreeli, Jack; and Smythe, William J.,3,425,357.
Isreeli, Jack, to Techicon Corporation. Sample identification apparatus. 3,482,082, 12-2-69, Cl. 235-61.12
Isreeli, Jack; and Skeggs, Leonard T., to Technicon Instruments Corporation. Variable volume conduit. 3,464,794, 9-2-69, Cl. 23-230.
Isreeli, Jack; and Skeggs, Leonard T., to Technicon Corporation. Volume-adjustable conduit for liquid analysis apparatus. 3,479,142, 11-18-69, Cl. 23-253.
Isreeli, Jack; Smythe, William J.; and Larrabee, Edward W., to Technicon Corporation. Automatic analysis apparatus control means. 3,481,708, 12-2-69, Cl. 23-253.
Issa, Manuel A.: *See—*
Downs, Harold H.; and Issa, Manuel A.,3,426,319.
Isserlin, Evgeny Borisovich; and Bystrov, Jury Alexandrovich. Noncontact current-sensing device employing a vacuum tube surrounding the current carrying conductor. 3,453,475, 7-1-69, Cl. 313-162.
Isshiki, Masaki, to Nippon Kogaku K.K. Finder optical system of a single lens reflex camera. 3,455,225, 7-15-69, Cl. 95-42.
Isshiki, Setsuya, to Fujikura Cable Works, Ltd., The. Butyl rubber-insulated electric cable and method of manufacture thereof. 3,472,692, 10-14-69, Cl. 117-218.
Issler, Jorg: *See—*
Zechnall, Richard; Issler, Jorg; Sohner, Gerhard; and Worz, Paul,3,463,134.
Isstas, Hans. Internal combustion engine with circular ring pistons. 3,481,313, 12-2-69, Cl. 123-13.
Ista, Myron H., to Case, J. I., Company. Concrete mixer apparatus. 3,441,255, 4-29-69, Cl. 259-146.
Istag A.G. Suhr/AG: *See—*
Bilbe, William George, 3,444,021.
Istel, Jacques A.; and Guilfoyle, Le Roy F., to Parachutes Incorporated. Parachuting apparatus. 3,437,295, 4-8-69, Cl. 244-148.
Istituto de Angeli S.p.A.: *See—*
Casadio, Silvano, 3,420,822.
Isyangulov, Avzaletdin Gizyatullovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
itaCo: *See—*
Grangaard, George H., 3,422,549.
Itakura, Kiyoshi, to Nippon Sheet Glass Co., Ltd. Bait apparatus for drawing out glass ribbons from bolten bath. 3,480,423, 11-25-69, Cl. 65-182.
Itakura, Kiyoshi; and Takigawa, Hideaki, to Nippon Sheet Glass Co., Ltd. Apparatus for stretching molten sheet glass laterally. 3,450,518, 6-17-69, Cl. 65-182.
Italiano, Larry. Metal label strip apparatus. 3,448,909, 6-10-69, Cl. 227-86.
Italo American Prentice S.p.A.: *See—*
Dal Negro, Ruggero, 3,480,045.
Itami, Thomas T., to Parma Water Lifter Company. Mobile beet cleaning apparatus. 3,423,914, 1-28-69, Cl. 56-121.46
Itano, Kohei: *See—*
Tsunoda, Takahiro; Yamaoka, Tsuguo; Itano, Kohei; and Hori, Haruo,3,486,900.
Itazaki, Hiroshi: *See—*
Nagata, Wataru; and Itazaki, Hiroshi,3,429,876.
Itek Corporation: *See—*
Arazi, Efraim R., 3,435,227.
Aschenbrenner, Claus M.; Hsieh, Hsueh Y.; and Libby, Richard L., 3,438,050.
Bartlett, Richard F., 3,452,331.
Berman, Elliot; and Ekman, Carl F. W., 3,424,582.
Berman, Elliot, 3,453,639.
Berman, Elliot, 3,471,288.
Berman, Elliot, 3,477,850.
Cerasani, Americo J., 3,452,912.
Cronig, Alvin; and Gruber, Francois R., 3,485,160.
Cronig, Alvin; McCarthy, Joseph V.; and Gruber, Francois, 3,485,348.
Fairbanks, Henry N.; and Robbins, Daniel H., 3,472,590.
Fleisher, Marvin B.; and Hixon, Philip E., 3,422,741.
Francis, Ronald, 3,445,230.
Hixon, Philip E.; Fleisher, Marvin B.; and Braithwaite, Bertrand G., 3,472,143.
Hobrough, Gilbert L., 3,429,990.
Hobrough, Gilbert L., 3,432,674.
Hobrough, Gilbert L., 3,450,833.
Kane, John R., 3,429,703.
Miller, Joseph F. G.; and Watson, John T., 3,463,070.
Nolan, Terence H., 3,450,379.
Oliver, Donald S., 3,483,515.
Polson, Lawrence L., 3,458,801.
Robin, Gilbert J.; Cronig, Alvin; and Gruber, Francois R., 3,472,138.
Sanford, Lloyd C., 3,440,935.
Stasey, Charles Marshall, 3,469,105.
Tyler, Arthur W., 3,425,048.
Yagelowich, Edwin T., 3,453,744.
I.T.E.S. Industria Ticinese Essiccatoi Speciali S.p.A.: *See—*
Franceschi, Rodolfo, 3,447,246.
Ithicon, Inc.: *See—*
Gister, Sidney; and Kronenthal, Richard L., 3,455,776.
Ito, Akira. Method and device for bookbinding. 3,452,376, 7-1-69, Cl. 11-1.
Ito, Giichi; Takamura, Masao; Kato, Katsuhiro; and Kikuchi, Hisaei, to Nippon Telegraph and Telephone Public Corporation. Electromagnet switching device in coordinate arrays. 3,431,519, 3-4-69, Cl. 335-112.
Ito, Haruo, to Yokogawa-Hewlett-Packard, Ltd. Variable resistance circuit. 3,446,987, 5-27-69, Cl. 307-200.
Ito, Haruo, to Yokogawa-Hewlett-Packard, Ltd. Bridge circuit having phase shifter and nulling direction indicator. 3,473,117, 10-14-69, Cl. 324-57.
Ito, Haruo, to Yokogawa-Hewlett-Packard, Ltd. Phase shifting circuit. 3,478,227, 11-11-69, Cl. 307-232.
Ito, Hiroo: *See—*
Ogasawara, Takahisa; Tatemichi, Hidemaro; Ito, Hiroo; and Suzuki, Shigenari,3,458,568.
Ito, Hiroshi: *See—*
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro,3,425,359.
Ito, Hiroya; and Saisho, Takao, to Nitto Kasei Co., Ltd. Stabilizing bis(triorganotin)oxides with phenyl salicylates. 3,424,775, 1-28-69, Cl. 260-429.7
Ito, Iko: *See—*
Nakamura, Akihide; Ito, Iko; and Kanbara, Kiyohiro,3,457,241.
Ito, Junkichi. Reduction gear. 3,453,906, 7-8-69, Cl. 74-801.
Ito, Kanemitsu, to Colt's Inc. Method of preventing malfunction of a magazine type firearm and gage for conducting same. 3,482,322, 12-9-69, Cl. 33-168.
Ito, Kenichi, to Tokyo Shibaura Electric Co., Ltd. Television FM sound broadcasting with high frequency deviation in ST link. 3,427,543, 2-11-69, Cl. 325-7.

Ito, Ken; Kaminaka, Hiroshi; Hamada, Takaki; and Kuruma, Hiroshi, to Sumitomo Chemical Company, Ltd. Method for manufacturing para-chlorophenol. 3,484,491, 12-16-69, Cl. 260-623.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji, to Sumitomo Chemical Company, Ltd. Process for producing 2,6-xylenol. 3,465,047, 9-2-69, Cl. 260-621.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji, to Sumitomo Chemical Company, Ltd. Method for preparing 2,6-xylenol. 3,465,048, 9-2-69, Cl. 260-621.
Ito, Kunihiko: *See*—
Kita, Hideo; and Ito, Kunihiko,3,442,636.
Ito, Makoto; and Yamamoto, Kazumoto, to Asahi Kasei Kogyo Co., Ltd., mesne. Steel pipe tower using steel pipe joints and method for assembling the same. 3,432,192, 3-11-69, Cl. 285-382.2
Ito, Masatomo: *See*—
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,435,067.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,439,020.
Ito, Michiaki, to Nippon Electric Company, Limited. Light beam transmission system. 3,468,598, 9-23-69, Cl. 350-45.
Ito, Mikiji; and Okuda, Ikuo, to Nippon Denso Kabushiki Kaisha. Driving device for an air pump for purifying exhaust gas. 3,455,105, 7-15-69, Cl. 60-30.
Ito, Miyaji; and Yanase, Toshiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Simultaneous aminoplast impregnation and direct dyeing by the pad dwell process followed by hot curing of the aminoplast. 3,458,271, 7-29-69, Cl. 8-18.
Ito, Reijiro, to Matsushita Electric Industrial Co., Ltd., and Kokusai Display Kogyo Kabushiki Kaisha. Device for imparting horizontally oscillatory rotating movement to articles. 3,425,011, 1-28-69, Cl. 335-179.
Ito, Reijiro, to Kokusai Display Kogyo Kabushiki Kaisha. Contactless electromagnetic driving devices. 3,474,314, 10-21-69, Cl. 318-128.
Ito, Ryoji: *See*—
Aoki, Setsuo; Shono, Setsuo; Ito, Ryoji; Arao, Yuzuru; and Hukunaga, Masao,3,458,175.
Ito, Seiji: *See*—
Iseki, Takeshi; Koga, Kosho; and Ito, Seiji,3,426,414.
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi,3,457,226.
Ito, Shinya; Kanno, Katsuo; and Nakagawa, Ryoichi, to Daito Chemical Industry Co., Ltd. 4-Benzothiazoyl and 4-benzothiadiazoyl azo dyed polyolefin articles and fibers and their dyeing. 3,481,683, 12-2-69, Cl. 8-4.
Ito, Shoichi; Kawamoto, Ichiro; and Hara, Yoichiro, to Toyo Rayon Kabushiki Kaisha. Process and apparatus for photochemical reaction. 3,431,188, 3-4-69, Cl. 204-157.1
Ito, Shozo: *See*—
Imai, Orio; Usuba, Yoshiro; and Ito, Shozo,3,446,493.
Ito, Sukehiro, to Nippon Electric Company, Limited. Time-division multiplexed PCM transmission system. 3,463,887, 8-26-69, Cl. 179-15.
Ito, Sukehiro; and Yokoyama, Seijiro, to Nippon Electric Company, Limited. Rectangular-code regenerator. 3,447,086, 5-27-69, Cl. 325-323.
Ito, Teruhiko; Mitsui, Naoshi; Maeda, Seiichiro; and Sawata, Kiyoshi, to Seitetsu Kagaku Co., Ltd. Process for the production of a high molecular weight polymer of an epoxide using a three component catalyst comprising an organozinc compound, an organomagnesium compound and water. 3,444,102, 5-13-69, Cl. 260-2.
Ito, Teruo: *See*—
Abe, Hidekazu; Shibata, Hiromichi; and Ito, Teruo,3,445,296.
Ito, Tokuo: *See*—
Matsumoto, Tsuyoshi; Ito, Tokuo; Komatsu, Kouei; Yasunaga, Hidetoshi; and Ueda, Kenichi,3,471,462.
Okuya, Eitaro; Ito, Tokuo; Sakaguchi, Akio; Komatsu, Koei; and Yasunaga, Hidetoshi,3,454,680.
Ito, Toshinori: *See*—
Nozawa, Masayuki; Ito, Toshinori; Hayashi, Shingo; and Otsuka, Naotoshi,3,427,912.
Ito, Yasumichi; Tuji, Akira; and Matano, Susumu, to Fuji Photo Film Co., Ltd. Hinged container with a sliding cover. 3,482,757, 12-9-69, Cl. 229-9.
Ito, Yoichiro. Apparatus for fluid treatment by utilizing the centrifugal force. 3,420,436, 1-7-69, Cl. 233-17.
Ito, Yonezo: *See*—
Ito, Yonezo, 3,435,832.
Ito, Yonezo, 3,474,767.
Ito, Yonezo, to Ito, Yonezo, and Komachiya Honten Co., Ltd. Wig framework. 3,435,832, 4-1-69, Cl. 132-54.
Ito, Yonezo, to Ito, Yonezo, and Honten, Komachiya, Co., Ltd. Wigs. 3,474,767, 10-28-69, Cl. 132-53.
Ito, Yoshikazu; Wakamatsu, Shigeru; Hara, Yoichiro; and Morino, Jiro, to Toyo Rayon Kabushiki Kaisha. Method of photonitrosation of cycloalkane. 3,479,264, 11-18-69, Cl. 204-162.
Ito, Yukihiko: *See*—
Takahashi, Miyao; Ito, Yukihiko; Yamada, Katsunori; and Amemiya, Mitsuo,3,483,061.
Ito, Yukio; and Komizo, Hidemitsu, to Fujitsu Limited. Miniature adjustable high frequency resonant circuit unit. 3,421,122, 1-7-69, Cl. 333-82.
Ito, Yushi: *See*—
Amano, Minoru; Nishihashi, Toru; Shinada, Shozo; and Ito, Yushi,3,445,283.
Itoh, Kiyoshi, to Tokai Loom Works, Ltd. Combing apparatus having provision for combing short fibers without waste. 3,435,486, 4-1-69, Cl. 19-215.
Itoh, Mimpei, to Tsunoda, Masanori. Elastic cap and stopper seal. 3,459,320, 8-5-69, Cl. 215-47.
Itoh, Seiichi: *See*—
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo,3,428,555.
ITT Blackburn Corporation: *See*—
Toedtman, John A., 3,480,905.
ITT Rayonier Incorporated: *See*—
Alexander, William J.; Murphy, Charles F.; and McEniry, Thomas E., Jr., 3,451,998.
Herrick, Franklin W.; and Bock, Louis H., 3,454,508.
Mitchell, Reid L.; Murphy, Charles F.; and Gwynn, John C., 3,424,744.
Quimby, George R.; and Goldschmid, Otto, 3,423,395.
Sobolev, Igor, 3,457,198.
Van Blaricom, Lloyd Eugene; and Johnston, Frederic Alan, 3,431,202.
Ittner, William B., III, to International Business Machines Corporation. Core testing. 3,481,185, 12-2-69, Cl. 73-67.2
Itzkan, Irving, to Sperry Rand Corporation. Prismatic member for differentially changing directions of light beams incident thereon. 3,442,571, 5-6-69, Cl. 350-157.
Ivakin, Boris Fedorovich; Vavilov, Igor Konstantinovich; Rozental, Nikolai Konstantinovich; and Roizen, Vladimir Zinovievich. Electromagnetic relay. 3,448,418, 6-3-69, Cl. 335-193.
Ivaldi, Franco: *See*—
Milone, Giovanni; Bonaudo, Rodolfo; and Ivaldi, Franco,3,473,244.
Ivan Sorvall, Inc.: *See*—
Schlutz, Charles A., 3,452,924.
Ivanchich, Peter G., to Ford Motor Company. Neutral clutch structure for a multiple ratio power transmission mechanism. 3,452,847, 7-1-69, Cl.
Ivanchich, Peter G., to Ford Motor Company. Shift interlock lever system for controlling ratio changes in a manually controlled transmission. 3,486,392, 12-30-69, Cl. 74-477.
Ivanhoe Research Corporation: *See*—
Noiles, Douglas G., 3,474,747.
Saray, George B., 3,463,103.
Scherr, Robert E.; McHose, Andre H.; Campbell, Ian P.; and Bryan, Carney J., 3,448,705.
Szentkuti, Charles, 3,442,505.
Ivanjukov, Diomid Vasilievich: *See*—
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.
Ivanoff, Victor, to Tyler, Hayward, & Company Limited. Glandless electrically driven pumps. 3,421,445, 1-14-69, Cl. 103-87.
Ivanov, Boris Dmitrievich: *See*—
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.
Ivanov, Igor Nikolaevich: *See*—
Shonin, Leonid Nikolaevich; Konoplev, Jury Sergeevich; Komarov, Jury Alexandrovich; Ivanov, Igor Nikolaevich; Silin, Mikhail Danilovich; Veyalis, Nina Petrovna, and; and Karpinskaya, Vera Borisovna,3,443,432.
Ivanov, Ivan Vasilievich: *See*—
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.
Ivanov, Nikolai Dmitrievich; Kaminsky, Fridrikh Davydovich; and Kuznetsov, Vladimir Ilich. Mount for electric vacuum devices. 3,473,072, 10-14-69, Cl. 313-317.
Ivanov, Valentin Alexandrovich: *See*—
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev,

Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Ivanov, Viktor Alexeevich: *See*—
Kostrov, Pavel Mikhailovich; Kozlov, Viktor Nikolaevich; Garin, Vladimir Mikhailovich; Ivanov, Viktor Alexeevich; and Dmitriev, Jury Ivanovich,3,485,238.
Ivanovic, Peter; and Mulgrave, Thomas P., to United States of America, Navy. Restraining sleeve-cadre tension bar. 3,454,243, 7-8-69, Cl. 244-63.
Ivashkov, Nikolai Melitonovich: *See*—
Oskolsky, Asaf Alexandrovich; Ivashkov, Nikolai Melitonovich; Rastorguev, Vladislav Vladimirovich; Shmuilov, Nikolai Leonidovich; and Zhavoronkov, Lev Vasilievich,3,426,717.
Ivec, Martin: *See*—
Houpis, Constantinos E.; and Ivec, Martin,3,461,399.
Ivec, Martin, to Motorola, Inc. Sequential flasher. 3,474,410, 10-21-69, Cl. 340-82.
Ivec, Martin, to Motorola, Inc. Transistor multivibrator flasher circuit. 3,478,248, 11-11-69, Cl. 315-205.
Ivernel, Alix; and Just, Marcel, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Apparatus for cracking and burning hydrocarbons. 3,453,084, 7-1-69, Cl. 23-277.
Ivers, John R.: *See*—
Carlson, Thomas W.; and Ivers, John R.,3,479,596.
Ivers-Lee Company: *See*—
Van Mil, Stephen A., Jr., 3,439,469.
Iversen, Einar C.: *See*—
Olson, Willard E.; and Iversen, Einar C.,3,486,248.
Iversen, Hans H. Wall mounted bracket for holding containers. 3,480,244, 11-25-69, Cl. 248-312.
Iversen, Kristian, to Danfoss A/S. Servomotor. 3,431,726, 3-11-69, Cl. 60-23.
Iversen, Per Gunnar, to Aktiebolaget Nordstroms Linbanor Corporation. Reciprocating type conveyor. 3,420,358, 1-7-69, Cl. 198-219.
Iverson, Clarence W., Jr.; and Wilson, Clyde R. Musical playing aid. 3,472,117, 10-14-69, Cl. 84-474.
Iverson, Gary J.; and Collins, David M., to Sperry Rand Corporation. Shift enable algorithm implementation means. 3,436,737, 4-1-69, Cl. 340-172.5
Iverson, Marlowe L., to North American Rockwell Corporation. Galvanic cell electrolyte. 3,441,441, 4-29-69, Cl. 136-83.
Iverson, Noel S., to New Ulm Manufacturing Company. Precision road grader with tiltable frame. 3,435,546, 4-1-69, Cl. 37-108.
Iverson, Roland N. Brackets for mounting on a bedside table or the like. 3,423,057, 1-21-69, Cl. 248-296.
Ives, Clifford E. Tape tab. 3,468,493, 9-23-69, Cl. 242-74.
Ives, Henry D.: *See*—
Carlson, Carl O.; Ives, Henry D.; and Jones, John L.,3,448,458.
Ives, John Alfred Walter. Measuring and calculating means for gauging or measuring devices. 3,468,033, 9-23-69, Cl. 33-147.
Ives, Kenneth D.; and Rastogi, Vijay, to Babcock & Wilcox Company, The. Strain gage transducer assembly. 3,433,060, 3-18-69, Cl. 73-88.5
Ives, Milton N.: *See*—
Haydon, Arthur W.; and Ives, Milton N.,3,427,574.
Ivester, Andrew S., to Polaroid Corporation. Aperture trim means for a photoflash exposure control system. 3,433,144, 3-18-69, Cl. 95-64.
Ivester, Andrew S., to Polaroid Corporation. Exposure control apparatus. 3,461,785, 8-19-69, Cl. 95-53.3
Ivester, Andrew S., to Polaroid Corporation. Exposure value determining system for photographic apparatus. 3,473,452, 10-21-69, Cl. 95-10.
Ivey, Kenneth H.; and Chastain, Sidney, to United States of America, Interior. Extraction of copper from molten metal melts. 3,441,404, 4-29-69, Cl. 75-76.
Ivey, Kenneth H.: *See*—
Nichols, Earl F.; Ivey, Kenneth H.; and Shell, Haskiel R.,3,443,891.
IVF Verbandstoffmaschinen-Fabrik Schaffhausen: *See*—
Witschi, Fritz; and Bunzli, Max, 3,449,797.
Ivie, Charles V.; and Wilkerson, Marvin R. Control system for a D. C. load having an analog input. 3,465,227, 9-2-69, Cl. 318-257.
Ivins, Barbara: *See*—
Goodell, John D.; Ivins, Barbara; Wistrand, John C.; and Tasi, Vasil,3,424,393.
Ivko, Joseph J. Operator means for automobile doors having push-button latches. 3,451,167, 6-24-69, Cl. 49-279.
Ivnas, Lennart; Lindvall, Erik Emanuel; and Steffner, Sven Evert, to Fiskeby Aktiebolag. Method for the treating of wood chips. 3,481,686, 12-2-69, Cl. 21-7.
Ivy, Edward Everett: *See*—
Smith, Herbert Q.; and Ivy, Edward Everett,3,466,374.
Ivy, Joseph G., to Westinghouse Air Brake Company. System to control and duplicate movement hydraulically. 3,482,643, 12-9-69, Cl. 180-79.2
Iwaasa, Noboru: *See*—
Yamamoto, Hisao; and Iwaasa, Noboru,3,466,152.
Iwabuchi, Shinichi: *See*—
Eguchi, Takashi; Iwabuchi, Shinichi; and Akiyama, Takao,3,467,493.
Iwahara, Katsutoshi, to Matsushita Electric Industrial Co., Ltd. Automatic adjusting system of tuned amplifier. 3,484,707, 12-16-69, Cl. 330-2.
Iwahashi, Syunji: *See*—
Tsukamoto, Hiroshi; and Iwahashi, Syunji,3,438,912.
Iwai, Issei; and Nakamura, Norio, to Sankyo Company Limited. Process for preparing 3-aminoisoxazole derivatives. 3,435,047, 3-25-69, Cl. 260-307.
Iwai, Issei; and Nakamura, Norio, to Sankyo Company Limited. Process for preparing 5-aryl-3-aminoisoxazoles. 3,435,048, 3-25-69, Cl. 260-307.
Iwai, Issei; Ohki, Eiji; Oida, Sadao; and Takagi, Hiromu, to Sankyo Company Limited. 3-Azabicyclo [3.3.1] nonane compounds. 3,475,439, 10-28-69, Cl. 260-294.
Iwai, Issei; Seki, Isao; Minakami, Haruhiko; Kobayashi, Shinsaku; Inada, Satoru; and Kumakura, Seiji, to Sankyo Company Limited. Aminophenanthrene compounds and process for preparing the same. 3,471,502, 10-7-69, Cl. 260-294.7
Iwai, Katsuyuki; Fukatsu, Motonori; and Atsumi, Katsuya, to Akai Electric Company Limited. Fine gap and coarse gap video magnetic head arrangement. 3,465,098, 9-2-69, Cl. 178-6.6
Iwai, Katsuyuki; Fukatsu, Motonori; and Sato, Fujio, to Akai Electric Company Limited. System and method for direct magnetic recording and reproducing of television signals employing inversion of sync pulses. 3,483,318, 12-9-69, Cl. 178-6.6
Iwai, Masuo: *See*—
Tagiri, Koichi; Iwai, Masuo; and Nikaido, Yoshiwaka,3,435,968.
Iwaki, Akio: *See*—
Yamada, Shunichi; Achiwa, Kazuo; Terashima, Shiro; and Iwaki, Akio; said,3,422,135.
Iwaki, Koichi: *See*—
Ishikawa, Kazuo; and Iwaki, Koichi,3,485,032.
Iwakura, Yoshio; and Akiyama, Masayasu, to Mitsubishi Petrochemical Co., Ltd. Preparation of polyoxadiazoles. 3,484,389, 12-16-69, Cl. 260-2.
Iwamatsu, Mayuki; and Fujimura, Akira, to Aida Iron Works & Co., Ltd. Clutch and brake combination. 3,432,014, 3-11-69, Cl. 192-18.
Iwamatsu, Mayuki: *See*—
Tezuka, Yoshitomo; and Iwamatsu, Mayuki,3,457,874.
Iwamoto, Hidenori: *See*—
Murakami, Masuo; Takahahi, Kozo; Matsumoto, Jun; and Iwamoto, Hidenori,3,461,114.
Iwamoto, Kazukiyo: *See*—
Ueda, Keizo; Nagata, Koetsu; Fujita, Kentaro; and Iwamoto, Kazukiyo,3,425,091.
Iwamoto, Takeaki: *See*—
Nakayama, Chozo; Kaku, Teiichi; Aizawa, Hiizu; and Iwamoto, Takeaki,3,472,017.
Iwankovitsch, Stephen W.: *See*—
Mantel, Edward R.; Vigor, Charles W.; and Iwankovitsch, Stephen W.,3,479,731.
Iwasa, Mitsuhiro: *See*—
Yamamoto, Kazumi; Iwasa, Mitsuhiro; Ema, Kenji; and Arai, Noboru,3,422,037.
Iwasaka, Tatsuo: *See*—
Yuminaka, Takeo; and Iwasaka, Tatsuo,3,463,991.
Iwasaki, Cedric E.: *See*—
Douglas, Raymond J.; Handler, Elliott; Iwasaki, Cedric E.; Kossoff, Joseph; and Ryan, John W.,3,475,857.
Iwasaki, Hidesuke: *See*—
Ueyanagi, Jisaburo; Iwasaki, Hidesuke; Kamiya, Takaaki; and Oka, Osamu,3,444,187.
Iwasaki, Iwao, to Minnesota, University of, The Regents of the. Method of removing fatty acid coating from iron ores. 3,430,763, 3-4-69, Cl. 209-10.
Iwasaki, Iwao: *See*—
Takahashi, Yoshikazu; Kojima, Koujiro; Kahata, Hisashi; and Iwasaki, Iwao,3,453,101.
Iwasaki, Kenjiro: *See*—
Oguchi, Hakuro; and Iwasaki, Kenjiro,3,473,458.
Iwasaki, Kogi: *See*—
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; and Ikeda, Takeshi,3,431,336.
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; Ikeda, Takeshi; Nakajima, Eizo; and Kobatake, Takashi,3,452,129.
Iwasaki, Nozomu; and Hadland, Wayne O., to United States of America, National Aeronautics and Space Administration. Control device. 3,472,086, 10-14-69, Cl. 74-89.18
Iwasaki, Sadaya: *See*—
Morita, Hiroshi; Fuse, Motoyosi; Iwasaki, Sadaya; Yamagishi, Hisato; Kawaguchi, Syojiro; and Tanigawa, Koichiro,3,476,976.
Iwasaki, Tomio: *See*—
Watanabe, Yasuo; Arawaka, Tsukasa; and Iwasaki, Tomio,3,470,150.

Iwasaki, Yasuhiro: *See—*
Sagara, Hideo; Iwasaki, Yasuhiro; Ohe, Tsutomu; and Mashimo, Tomoyuki,3,431,630.
Iwasawa, Hiroshi; Inoki, Kazuyoshi; and Iseki, Hajime, to Citizen Tokei Kabushiki Kaisha. Stop and start mechanism for timepiece movement. 3,452,539, 7-1-69, Cl. 58-79.
Iwasawa, Hiroshi; Isekil, Hajime; and Hirano, Hiroshi, to Citizen Tokei Kabushiki Kaisha. Barrel spring. 3,433,011, 3-18-69, Cl. 58-86.
Iwasawa, Takashi: *See—*
Yanagimachi, Akio; Iwasawa, Takashi; Masuko, Hitoshi; and Yaguchi, Keiichi,3,454,713.
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji, to Toshiba Tungaloy Kabushiki Kaisha. Method for preparing raw materials for sintered alloys. 3,440,035, 4-22-69, Cl. 75-0.5
Iwashita, Katsumi; Yoshimura, Masasuke; Miyazaki, Seizaburo; and Tamaki, Kunio, to Nippon Kakan Kabushiki Kaisha. On-board loading and unloading system. 3,481,495, 12-2-69, Cl. 214-15.
Iwaskiw, Lubomyr J.: *See—*
Laurent, Harold J.; and Iwaskiw, Lubomyr J.,3,478,274.
Iwata, Akira; and Murai, Sadao, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Extruder for shaping powdery thermoplastic resins. 3,470,584, 10-7-69, Cl. 18-12.
Iwata, Hideo: *See—*
Tsunoda, Yoshimasa; Iwata, Hideo; Okada, Tsutomu; and Aso, Kotaro,3,475,801.
Iwata, Kansei: *See—*
Sato, Risaburo; and Iwata, Kansei,3,443,030.
Iwata, Kazumi: *See—*
Ichikawa, Yataro; Yamashita, Gentaro; and Iwata, Kazumi,3,465,013.
Iwata, Koshi: *See—*
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,492.
Iwata, Namio; Takahashi, Koichi; Sato, Isao; and Yanagisawa, Sizuyasu, to Tokyo Shibaura Electric Co., Ltd., and Canon Camera Company, Incorporated. Flash bulb magazine. 3,454,756, 7-8-69, Cl. 240-1.3
Iwata, Saburo; and Misawa, Akira, to Sony Corporation. Semiconductor device including polycrystalline areas among monocrystalline areas. 3,475,661, 10-28-69, Cl. 317-234.
Iwata, Shigeo, to Chyo Balance Corporation. Apparatus for measuring changes in the weight of a sample. 3,469,455, 9-30-69, Cl. 73-432.
Iwauchi, Shigeki: *See—*
Batchelor, Gordon S.; Kishi, Kiyoshi; Iwauchi, Shigeki; and Saito, Isamu,3,443,929.
Iwaya, Shoichi; and Yoshioka, Tunehiko, to TDK Electronics Company, Limited. Method of manufacturing plate condensers having discharge elements. 3,456,314, 7-22-69, Cl. 29-25.42
Iwaya, Shoichi; and Yoshioka, Tunehiko, to TDK Electronics Company, Limited. Plate condenser having discharge elements. 3,457,477, 7-22-69, Cl. 317-256.
I.W.S. Nominee Company Limited: *See—*
Brown, Thomas Desmond, 3,461,509.
Mizell, Louis R., 3,483,602.
Ross, Donald A., 3,462,812.
Stone, Bernard David, 3,484,185.
Zahn, Helmut; and Bahra, Mamoun, 3,484,272.
Iyengar, Yathiraja: *See—*
Ahles, Lavern James; and Iyengar, Yathiraja,3,423,265.
Iyoda, Shozo: *See—*
Ubukata, Susumu; Mizutani, Yasukazu; and Iyoda, Shozo,3,487,358.
Iyoshi, Koichi: *See—*
Nagakura, Akira; Iyoshi, Koichi; Kuribara, Tomio; and Ishiwara, Yoshimi,3,453,840.
Izatt, James Paterson. Watering and drainage system. 3,461,675, 8-19-69, Cl. 61-11.
Izawa, Hiroaki: *See—*
Watanabe, Jun; Hosoi Susumu; Izawa, Hiroaki; Sawai, Tadashi; and Kawakami, Koichiro,3,428,494.
Izawa, Shin-Ichi: *See—*
Kobayshi, Hidehiko; Ohama, Hiroshi; and Izawa, Shin-Ichi,3,455,880.
Izen, Manuel; and Klotzek, George, said Klotzek assor to said Izen. Apparatus and a method for discharging individual workpieces from a superimposed supply thereof. 3,437,234, 4-8-69, Cl. 221-1.
Izergina, Evgenia Valentinovna; Yakovlev, Georgy Konstantinovich; Zakharova, Antonina Dmitrievna; and Komin, Nikolai Egorovich. Nickel ferrites containing cobalt, lead and silicon. 3,450,635, 6-17-69, Cl. 252-62.59
Izrael, Larisa Borisovna: *See—*
Yakovich, Ninel Iosifovna; Khcheyan, Khachik Egorovich; Izrael, Larisa Borisovna; Pavlichev, Alexei Fedorovich; and Kondtratieva, Nina Nikolaevna,3,439,059.
Izuhara, Torao: *See—*
Ozeki, Saburoji; Kimura, Kenji; Shimasaki, Soichi; Izuhara, Torao; Kadota, Osamu; and Sakurai, Kozi,3,444,806.
Izumi, Hideki Danny: *See—*
Andersen, Robert Leslie; Izumi, Hideki Danny; and Stinehelfer, Jonathan Jerold,3,475,622.
Izumi, Hideo: *See—*
Nagatsu, Hiroshi; Mimura, Yoshiaki; Izumi, Hideo; and Masuda, Yoshihiro,3,436,614.
Izumi, Hiroshi; Katahira, Toshiaki; and Furuhashi, Michio, to Matsushita Electric Industrial Co., Ltd. Method for improving sharpness of television images. 3,472,950, 10-14-69, Cl. 178-6.6
Izumi, Hiroshi: *See—*
Senda, Shigeo; Fujimura, Hajime; and Izumi, Hiroshi,3,430,258.
Izumi, John Y. Interconnectable modular connectors for tubular elements. 3,422,564, 1-21-69, Cl. 46-22.
Izumi, Masahiro; Shima, Hiroshi; Matsumura, Shigeru; and Nobuyuki, Asano, to Sumitomo Electric Industries, Ltd. Method of manufacturing tetracarboxylic acid dianhydride. 3,453,292, 7-1-69, Cl. 260-346.3
J & L Tank, Inc.: *See—*
Haslett, Gerald W., Jr., 3,420,419.
J & S Carburetor Company: *See—*
Jones, Sam P., 3,484,220.
Jaaksoo, Lembit; and Stange, Werner, to Allmanna Svenska Elektriska Aktiebolaget. Electrical connecting element. 3,470,525, 9-30-69, Cl. 339-217.
Jabbar, Kamil Y., to Motorola, Inc. Motor control circuit. 3,458,792, 7-29-69, Cl. 318-328.
Jablon, Theodore M., to Dorr-Oliver Incorporated. Sedimentation tank with lifting device for pier-supported raking mechanism. 3,465,888, 9-9-69, Cl. 210-531.
Jablon, Theodore M., to Dorr-Oliver Incorporated. Agitating apparatus for flocculating treatment of suspensions. 3,466,016, 9-9-69, Cl. 259-100.
Jablon, Theodore M., to Dorr-Oliver Incorporated. Settling tank with center -pier supported rake structure. 3,482,704, 12-9-69, Cl. 210-531.
Jabloner, Harold, to Hercules Incorporated. Process for preparation of polymer hydroperoxides. 3,458,597, 7-29-69, Cl. 260-877.
Jablonski, Casmer S.: *See—*
Youngblood, Leonard C.; Zaffaroni, Peter P.; and Jablonski, Casmer S.,3,467,989.
Jablonski, Edward R., to McGraw-Edison Company. Luminaire. 3,435,202, 3-25-69, Cl. 240-25.
Jablonski, Jan, to Elliott Brothers (London) Limited. Variable reluctance pickoff and switch to short circuit an output winding. 3,477,027, 11-4-69, Cl. 323-51.
Jablonski, Jan, to Elliott Brothers (London) Limited. Displacement measuring device. 3,481,199, 12-2-69, Cl. 73-384.
Jablonski, Richard J., to Burroughs Corporation. Mechanism for positioning a spheroidal type head to present a selected type to a print position. 3,467,233, 9-16-69, Cl. 197-16.
Jablonsky, Erich, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Balancing of steering spindles in power steering systems. 3,461,779, 8-19-69, Cl. 91-372.
Jablonsky, Erich: *See—*
Wagner, Heinrich; and Jablonsky, Erich,3,436,974.
Jabsen, Felix S., to Babcock & Wilcox Company, The. Nuclear reactor rod controller. 3,462,345, 8-19-69, Cl. 176-36.
Jaccard, Leon, to Laboratoire Suisse de Recherches Horlogeres. Apparatus for the registration of the medicaments and of their valence on the basis of observed symptoms. 3,450,866,. 6-17-69, Cl. 235-61.11
Jaccard, Rene Philippe. Alarm timepiece. 3,440,816, 4-29-69, Cl. 58-18.
Jaccizzi Bros., Incorporated: *See—*
Nash, Floyd M., 3,442,385.
Jacevicius, Joseph: *See—*
Zakaitis, Robert C.; and Jacevicius, Joseph,3,463,112.
Jacewicz, Jan: *See—*
Leskiewicz, Henryk J.; Jacewicz, Jan; and Olszewski, Mariusz,3,463,442.
Jache, Albert W.: *See—*
Gambardella, Mario A.; Jache, Albert W.; and Kongpricha, Santad,3,446,592.
Jache, Albert W.; Kongpricha, Santad; and Pitts, James J., to Olin Mathieson Chemical Corporation. Preparation of ClF and ClSbF. 3,451,775, 6-24-69, Cl. 23-205.
Jache, Otto, to Accumulatorenfabrik Sonnenschein G.m.b.H. Process for the production of filling materials for galvanic elements. 3,449,166, 6-10-69, Cl. 136-27.
Jachim, Paul Lawrence, to Motorola, Inc. Dual complementary gate keyed automatic gain control circuit. 3,449,513, 6-10-69, Cl. 178-7.3

Jack, Charles W., to Executive Line, Inc., The. Conversion device. 3,432,942, 318-69, Cl. 35-31.
Jack, David; Ritchie, Alexander Crawford; Peel, Mervyn Evan; and Harper, Norman James, to Allen & Hanburys Limited. 4-Phenylpiperidine derivatives. 3,458,521, 7-29-69, Cl. 260-293.
Jack, Harry Ross Scarlett: *See*—
Wilde, Dennis; and Jack, Harry Ross Scarlett,3,473,910.
Jack, James; Stuart, Ronald Sangster; and Plumb, John Beckett, to Imperial Chemical Industries Limited. Terpolymers containing polysiloxane, polyoxyalkylane, and polyvinyl ester blocks. 3,478,075, 11-11-69, Cl. 260-448.2
Jack, Walter Q.; and Johnson, Loyd V., to Hooker Chemical Corporation. Woodpulp bleaching process. 3,433,702, 3-18-69, Cl. 162-87.
Jacke, Raymond E., to Reynolds Metals Company. Self-opening closure for a container. 3,435,977, 4-1-69, Cl. 215-46.
Jacke, Raymond E., to Reynolds Metals Company. Sift-proof or liquid-tight carton construction. 3,481,527, 12-2-69, Cl. 229-37.
Jacke, Stanley E., to Branson Instruments, Incorporated. Method and apparatus for cleaning a pipe with sonic energy. 3,421,939, 1-14-69, Cl. 134-1.
Jacke, Stanley E.: *See*—
Soloff, Robert S.; Jacke, Stanley E.; and Bloch, Peter K.,3,440,117.
Jackel, Arthur P.: *See*—
Huffman, Donald D.; and Jackel, Arthur P.,3,479,503.
Jackel, Edgar: *See*—
Lindenmaier, Ernst E.; Jackel, Edgar; and Mathys, Ludwig G.,3,435,592.
Jackel, Johann: *See*—
Espenschied, Helmut; and Jackel, Johann,3,429,194.
Jackes, Arthur M. Axial flow ground effect machine. 3,486,577, 12-30-69, Cl. 180-120.
Jackes-Evans Manufacturing Company: *See*—
Cornwell, Alexander M., Jr., 3,482,422.
Harrell, Bob G., 3,423,970.
Miller, Joseph N.; and Harbaugh, Arthur G., 3,452,984.
Miller, Joseph N.; and Harbaugh, Arthur G., 3,467,377.
Wheeler, Raymond T., 3,452,491.
Jacketing Specialty: *See*—
Bates, Wesley V.; and Bates, Bobby L., 3,474,817.
Jackim, Eugene H.; and Land, David B., to United States of America, Navy. Phosphate derivatives of 3-hydroxyflavone. 3,453,291, 7-1-69, Cl. 260-345.2
Jackisch, Philip F., to Ethyl Corporation. Preparation of nitrilotriacetic acid. 3,470,245, 9-30-69, Cl. 260-534.
Jackle, Otto: *See*—
Heilig, Alfred; and Zerrer, Gerhard, 3,477,482.
Jackle, Reinhard, to Gebr. Staiger. Electrically powered timepiece. 3,472,020, 10-14-69, Cl. 58-28.
Jackle, William A.: *See*—
Bulbenko, George F.; and Jackle, William A.,3,455,952.
Jackley, Donald N.; and Reisman, Coleman A., to United States of America, Navy. Seawater battery employing non-uniform distribution of electrolyte along battery length. 3,472,699, 10-14-69, Cl. 136-100.
Jackman, Claude A.; and Turner, Elbert L., to Sylvania Electric Products Inc. Automatic locking receiver. 3,434,057, 3-18-69, Cl. 325-423.
Jackman, Robert M., to Smith, A. O., Corporation. Pipe coupling having a split ring locking means. 3,434,745, 3-25-69, Cl. 285-111.
Jackman, Ronald: *See*—
Nicholson, George Galloway; Jackman, Ronald; and Stubbins, Derek,3,421,708.
Jacknau, Alex, to Agfa-Gevaert Aktiengesellschaft. Automatic focusing device for photographic reproducer. 3,431,052, 3-4-69, Cl. 355-58.
Jacknow, Burton B.; and Moriconi, Joseph H., to Xerox Corporation. Organosilicon terpolymers. 3,467,634, 9-16-69, Cl. 260-80.71
Jackoboice, Edward W., to Monarch Road Machinery Company. Compound rotary valve. 3,430,651, 3-4-69, Cl. 137-596.
Jackoboice, Edward W., to Monarch Road Machinery Company. Flexible control mechanism for valves and the like. 3,448,633, 6-10-69, Cl. 74-501.5
Jackoboice, George A., to Monarch Road Machinery Company. Power means for a cement discharge chute. 3,481,440, 12-2-69, Cl. 193-10.
Jackovitz, John F.; and Jamison, Will B., to Kidde, Walter & Company, Inc., mesne. Foam producing material. 3,422,011, 1-14-69, Cl. 252-3.
Jackowski, Charles S.; Jensen, Donald F.; Muller, Hans R.; Noll, Melvin R.; and Schaffer, Robert R., to International Business Machines Corporation. Fluid-controlled data storage apparatus. 3,466,610, 9-9-69, Cl. 340-172.5
Jacks, Eric; Feenan, John; and Clarke, Wilfred, to English Electric Company Limited, The. Cartridge type electric fuse. 3,451,025, 6-17-69, Cl. 337-249.
Jacks, Eric; and Rowe, Charles, to English Electric Company Limited, The. Fuse unit having an operation indicator. 3,480,901, 11-25-69, Cl. 337-244.
Jacks, Eric: *See*—
Feenan, John; Jacks, Eric; and Murphy, John Eric,3,432,923.
Jacks, Herbert E. M.: *See*—
Isley, Nathaniel Edward; and Jacks, Herbert E. M.,3,430,920.
Jacks, Roy T.: *See*—
Platt, William G.; and Jacks, Roy T.,3,468,550.
Jackson & Church Electronics Company, Inc.: *See*—
Petrick, Joseph R., 3,474,337.
Jackson, Albert S., to Milgo Electronic Corporation. Analog computing apparatus with system scaling indicator. 3,422,257, 1-14-69, Cl. 235-193.
Jackson, Albert W. Method and apparatus for the testing and repair of oxygen breathing apparatus. 3,486,366, 12-30-69, Cl. 73-40.
Jackson and Church Electronics Company, Inc.: *See*—
Hren, John J., 3,486,020.
Jackson, Bernerd D.: *See*—
Devanney, Paul H.; and Jackson, Bernerd D.,3,461,775.
Jackson, Billy G.: *See*—
Morin, Robert B.; and Jackson, Billy G.,3,466,275.
Jackson, Boris A.; Nalbantian, Stepan; and Remondino, Benedetto, to U.S. Components Inc. Clip feeding and attaching machine. 3,448,507, 6-10-69, Cl. 29-211.
Jackson Buff Corporation: *See*—
Atkins, David B., 3,438,080.
Jackson, Byron, Inc.: *See*—
Alder, Robert L., 3,431,654.
Alder, Robert L., 3,440,730.
Alder, Robert L., 3,466,754.
Alder, Robert L., 3,466,755.
Alder, Robert L., 3,470,620.
Alder, Robert Lee, 3,457,654.
Alder, Robert Lee, 3,464,120.
Burstall, William M., 3,461,666.
Dickmann, John L.; Flick, Howard S.; and Palmer, Melvin J., 3,481,228.
Dickmann, John L.; and Palmer, Melvin J., 3,481,229.
Dickmann, John L.; and Flick, Howard S., 3,483,774.
Garcia, Calixto F., 3,421,585.
Grant, John C., 3,466,693.
Grant, John C., 3,475,781.
Jones, Taylor L.; and Turner, John W., Jr., 3,458,230.
McFadden, Edward J., 3,479,062.
McGrath, John J., 3,455,613.
McGrath, John J., 3,455,619.
Merritt, John B., 3,434,539.
Raugust, Theodore A., 3,460,619.
Scott, Lyle B., 3,437,137.
Scott, Lyle B., 3,437,138.
Scott, Lyle B., 3,440,096.
Scott, Lyle B., 3,447,606.
Scott, Lyle B., 3,470,903.
Taylor, Raymond G., Jr., 3,455,401.
Taylor, Raymond G., Jr., 3,468,035.
Turner, John W., Jr., 3,422,506.
Turner, John W., Jr., 3,454,297.
Jackson, Carl D.: *See*—
Bentley, Thomas A.; and Jackson, Carl D.,3,448,814.
Jackson, Carl Thomas, to True Temper Corporation, mesne. Railway rail fastener device. 3,477,642, 11-11-69, Cl. 238-349.
Jackson, C.D., Manufacturing, Inc.: *See*—
Bentley, Thomas A.; and Jackson, Carl D., 3,448,814.
Jackson, Charles N., Jr.; and Spear, Ward G., to United States of America, Atomic Energy Commission. Method and apparatus for measuring the void fraction of hydrogenous fluids. 3,461,286, 8-12-69, Cl. 250-43.5
Jackson, Clark E., to Purex Corporation, Ltd. Pumping mechanisms. 3,460,482, 8-12-69, Cl. 103-152.
Jackson, Clark E., to Purex Corporation, Ltd. Self cleaning nozzle. 3,474,968, 10-28-69, Cl. 239-118.
Jackson, Clifford E., to Dorr-Oliver Incorporated. Horizontal rotary filter assembly. 3,478,885, 11-18-69, Cl. 210-194.
Jackson, David L., to Thomas & Betts Corporation. Automatic sorting apparatus and method of sorting. 3,457,693, 7-29-69, Cl. 53-35.
Jackson, David, to Express Dairy Company (London) Limited. Time indicator. 3,480,402, 11-25-69, Cl. 23-254.
Jackson, David: *See*—
Hudson, Clifford Harold; Ashton, Thomas Richard; Cottle, Victor Claude Herbert; and Jackson, David,3,466,850.
Jackson, Dean R. Grain circulator. 3,445,091, 5-20-69, Cl. 259-111.
Jackson, Don M., Jr., to Motorola, Inc. Method of fabricating a semiconductor structure with an electrically isolated region of semi- conductor material. 3,461,003, 8-12-69, Cl. 148-175.
Jackson, Don M., Jr.; Frazee, Orville Phillip; and Waldow, Peter, to Motorola, Inc. Multilayer semiconductor device. 3,454,434, 7-8-69, Cl. 148-33.5

Jackson, Don M., Jr.; and Howard, Robert W., to Motorola, Inc. Epitaxial growth of germanium. 3,473,978, 10-21-69, Cl. 148-175.
Jackson, Donald M.; and Gierut, Joseph F., to FMC Corporation. Packing for a fluid joint. 3,469,850, 9-30-69, Cl. 277-83.
Jackson, Earl V., to Bausch & Lomb Incorporated. Releasable locking latch. 3,432,195, 3-11-69, Cl. 287-189.36
Jackson, Earl V.; and Mohrman, Richard C., to Bausch & Lomb, Incorporated. Tangent screen field of vision testing apparatus. 3,476,465, 11-4-69, Cl. 351-23.
Jackson, Elizabeth Rosemary Norton. Safety devices for sheet metal presses and the like. 3,473,357, 10-21-69. Cl. 72-2.
Jackson, Eric W., to Becorit (Research) Limited. Suspended track gripping locomotive. 3,456,597, 7-22-69, Cl. 105-30.
Jackson, Francis E., to Nelsons Silk Limited. Interlacing method and apparatus. 3,468,113, 9-23-69, Cl. 57-34.
Jackson, Francis E., to Nelsons Silk Limited. Method of and apparatus for making an interlaced yarn. 3,468,114, 9-23-69, Cl. 57-34.
Jackson, Frank H.; and Rumbutis, Bernard R., to Eastman Kodak Company. Process and apparatus for removing diffusible liquid from a permeable solid. 3,448,528, 6-10-69, Cl. 34-9.
Jackson, George W., to General Motors Corporation. Fluid fitting plug assembly. 3,482,863, 12-9-69, Cl. 287-126.
Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection systems. 3,431,900, 3-11-69, Cl. 123-139.
Jackson, Harold S., to Allegheny Ludlum Steel Corporation. Arc power responsive control system for consumable electrode furnace. 3,435,121, 3-25-69, Cl. 13-13.
Jackson, Harold W.: *See—*
Michael, James L.; and Jackson, Harold W.,3,427,167.
Jackson, Henry, to International Business Machines Corporation. Method and composition for autocatalytically depositing copper. 3,436,233, 4-1-69, Cl. 106-1.
Jackson, Herbert C.; Havelock, William E. B.; and Morrison, Albert W. Immersed pumps boiler cleaning. 3,462,302, 8-19-69, Cl. 134-169.
Jackson, Hugh J., to Bethlehem Steel Corporation. Strip guiding apparatus. 3,447,354, 6-3-69, Cl. 72-250.
Jackson, Jacob. Electrically operated heat transfer devices. 3,462,724, 8-19-69, Cl. 338-229.
Jackson, James A., to Meadow Steel Products, Inc. Concrete slab key-joint forming member. 3,437,018, 4-8-69, Cl. 94-17.
Jackson, James Augustus, to Standard Oil Company (Indiana). Stabilization of dimethyl terephthalate. 3,485,867, 12-23-69, Cl. 260-475.
Jackson, James S., to Mavor & Coulson Limited. Endless-belt conveyors. 3,455,437, 7-15-69, Cl. 198-192.
Jackson, James S.; and Reeber, Morton D., to International Business Machines Corporation. Tube coupling. 3,436,104, 4-1-69, Cl. 285-242.
Jackson, Jesse M., to Bell Telephone Laboratories, Incorporated. Air drying system. 3,477,204, 11-11-69, Cl. 55-33.
Jackson, John Brian; Sherliker, Francis Raymond; and Long, Hamish Arthur, to Imperial Chemical Industries Limited. Mouldable polyester compositions containing finely divided pyrophyllite. 3,479,318, 11-18-69, Cl. 260-40.
Jackson, John E., to Union Carbide Corporation. Method for shielding a gas effluent. 3,470,347, 9-30-69, Cl. 219-76.
Jackson, John Eugene: *See—*
Charman, Walter M., Jr.; and Jackson, John Eugene,3,436,883.
Jackson, John G., Jr., deceased (by Bank of the Southwest National Association, executor); Beson, John, and; and Crawford, Charles R., to Rockwell Manufacturing Company. Well completion apparatus. 3,438,654, 4-15-69. Cl. 285-141.
Jackson, John Harry; and Schmidt, Walther, to Reynolds Metals Company. Aluminum reduction of beryllium halide. 3,477,844, 11-11-69, Cl. 75-63.
Jackson, Joseph C.; and Seipt, Willard R., to Certain-Teed Products Corporation. Method of curing cementitions articles. 3,427,374, 2-11-69, Cl. 264-79.
Jackson, Joseph C.; and Seipt, Willard R., to Certain-Teed Products Corporation. Method of curing hydraulic cement. 3,428,721, 2-18-69, Cl. 264-79.
Jackson, Joseph F., to Pratt Percision Hydraulics Limited. Six-phase electrical stepping motor with control system including logic circuitry. 3,462,667, 8-19-69, Cl. 318-138.
Jackson, Kenneth A.: *See—*
Hunt, John D.; and Jackson, Kenneth A.,3,484,153.
Jackson, Kerry A.: *See—*
Uimari, David C.; and Jackson, Kerry A.,3,445,684.
Jackson, Leslie T.: *See—*
Stone, Kenneth F.; and Jackson, Leslie T.,3,431,502.
Jackson, Lloyd J., to United States of America, Navy. Arming wire assembly. 3,476,012, 11-4-69, Cl. 89-1.5
Jackson, Meryl A.; and Owings, James L., to Anaconda Company, The. Leaching zinc plant purification residue. 3,464,814, 9-2-69, Cl. 75-101.
Jackson, Otto V. Mobile cleaning unit. 3,481,544, 12-2-69, Cl. 239-130.
Jackson, Peter F.: *See—*
Tremont, Peter L.; and Jackson, Peter F.,3,482,697.
Jackson, Ray D.: *See—*
van Bavel, Cornelius H. M.; and Jackson, Ray D.,3,436,313.
Jackson, Richard M.; and Spruegel, Walter. Tire under inflation telltale device. 3,476,073, 11-4-69, Cl. 116-34.
Jackson, Richard Norman; and Freeman, Kenneth George, to U.S. Philips Corporation, mesne. Information transmission system. 3,456,071, 7-15-69, Cl. 178-5.6
Jackson, Richard Norman; and Johnson, Keith Eric, to U.S. Philips Corporation, mesne. Method for transmitting and receiving educational television programs. 3,485,946, 12-23-69, Cl. 178-6.
Jackson, Richard Robert. Hand-held surgical air flow instrument. 3,469,582, 9-30-69, Cl. 128-276.
Jackson, Robert C., to Monsanto Company. Method and apparatus for pneumatically depositing a web. 3,485,428, 12-23-69, Cl. 226-97.
Jackson, Robert E.; and Idoine, Harry E., to Challenge-Cook Bros., Incorporated. Fluid pump. 3,421,447, 1-14-69, Cl. 103-149.
Jackson, Robert L., Jr., to American Air Filter Company, Inc. Method for making a filamentous mat. 3,438,587, 4-15-69, Cl. 242-42.
Jackson, Robert V.: *See—*
Burkett, Wilford B.; and Jackson, Robert V.,3,436,639.
Burkett, Wilford B.; and Jackson, Robert V.,3,454,860.
Jackson, Robert V.; and Burkett, Wilford B., to McCulloch Corporation. Direct current starter-generator mechanism. 3,426,213, 2-4-69, Cl. 290-31.
Jackson, Robert W.; and Pike, John E., to Upjohn Company, The. 16-Oxygenated-20-methyl-21-oic acids and 16- oxygenated-17α, 20-methylene-21-oic acids of the pregnane series and the 21-lower alkyl esters thereof. 3,435,029, 3-25-69, Cl. 260-239.55
Jackson, Roderick M.: *See—*
Olasz, Joseph S.; and Jackson, Roderick M.,3,483,627.
Jackson, Roy J.; and Brooks, Peter J. Splitter damper linkage. 3,427,895, 2-18-69, Cl. 74-503.
Jackson, Samuel H., to Kings Electronics Company, Inc. Sealed crimp-type coaxial cable connection. 3,428,739, 2-18-69, Cl. 174-75.
Jackson, Squire Ronald; Saunders, Ronald Douglas Haig; and Ormerod, Alan, to Lucas, Joseph, (Industries) Limited. Combustion apparatus for gas turbine engines. 3,481,146, 12-2-69, Cl. 60-39.32
Jackson, Stuart P., to Solidstate Controls, Inc., The. Inverter circuit having constant current and variable inductance. 3,422,342, 1-14-69, Cl. 321-45.
Jackson, Thomas W., to Georgia Tech Research Institute of Technology. Method of installing a fastener. 3,439,412, 4-22-69, Cl. 29-509.
Jackson, Walter L., Jr.; and Head, Willis A. Material shear. 3,455,193, 7-15-69, Cl. 83-337.
Jackson, Wilbur F., to Robertshaw Controls Company. Unitary thermostatic control device with dual temperature sensors. 3,433,411, 3-18-69, Cl. 236-21.
Jackson, Wilbur F.; and Braucksiek, Henry C., to Robertshaw Controls Company. Magnet assemblies and terminals. 3,467,893, 9-16-69, Cl. 317-123.
Jackson, Wilbur F.; and Braucksiek, Henry C., to Robertshaw Controls Company. Terminal connector in electromagnetic assembly. 3,474,388, 10-21-69, Cl. 339-92.
Jackson, Wilbur F.; Katchka, Jay R.; and McAllister, Donald, to Robertshaw Controls Company. Control system for burner apparatus. 3,453,062, 7-1-69, Cl. 431-58.
Jackson, Wilbur F.; and Wright, John W., to Robertshaw Controls Company. Combined temperature and pressure controlled valve. 3,433,409, 3-18-69, Cl. 236-9.
Jackson, Wilbur F.; and Wright, John W., to Robertshaw Controls Company. Terminal block assembly. 3,482,206, 12-2-69, Cl. 339-198.
Jackson, Wilbur F.: *See—*
Freeby, Le Roy W.; and Jackson, Wilbur F.,3,486,732.
Jackson, William Donald, to Domtar Limited. Composite containers. 3,454,207, 7-8-69, Cl. 229-3.1
Jackson, William F. Treatment of virus diseases with a halogenated nitrophenol. 3,465,084, 9-2-69, Cl. 424-347.
Jackson, William G.; and Schroeder, William, to Burdick & Jackson Laboratories, Inc. Self polymerizable monomers and polymers therefrom. 3,484,387, 12-16-69, Cl. 260-2.
Jackson, William H.; and Kayser, Richard C., to Udylite Corporation, The. Electroplating apparatus. 3,429,797, 2-25-69, Cl. 204-202.
Jackson, William L., to United States of America, Atomic Energy Commission. Laser optical aligning method and apparatus. 3,432,240, 3-11-69, Cl. 356-152.
Jackson, William M.; and Hengeveld, Frank W., to Diamond Shamrock Corporation. Sols of gamma ferric oxide and their preparation. 3,480,555, 11-25-69, Cl. 252-62.56
Jackson, William P.: *See—*
Leach, Pembroke O.; Jackson, William P.; and Camp, Vernon W.,3,423,563.

Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Antiplasticized polysulfone ethers. 3,431,230, 3-4-69, Cl. 260-33.8
Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. 1,3-Bis(dialkylaminomethoxy)-2,2,4,4- tetralkycyclobutanes. 3,442,896, 5-6-69, Cl. 260-246.
Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Bisphenols and polycarbonates thereof. 3,446,855, 5-27-69, Cl. 260-619.
Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Alicyclic bisphenyleneoxydicarboxylic acids, salts and esters. 3,470,235, 9-30-69, Cl. 260-473.
Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Stabilization of polycarbonates. 3,475,373, 10-28-69, Cl. 260-47.
Jackson, Winston J., Jr.: *See*—
Beach, Joseph L.; and Jackson, Winston J., Jr.,3,437,639.
Jackson, Winston Jerome, Jr.; and Caldwell, John R., to Eastman Kodak Company. Chlorinated polyesters. 3,454,672, 7-8-69, Cl. 260-860.
Jacksonville Blow Pipe Company: *See*—
Montgomery, William T. S., 3,473,742.
Jackstadt, Werner, to Wilhelm Jackstadt & Co., Firma. Self sealing foil having plural adhesive layers. 3,464,842, 9-2-69, Cl. 117-44.
Jacob, Don M., to TRW Inc. Altimeter-ranger and rendezvous radar. 3,475,753, 10-28-69, Cl. 343-13.
Jacob, Hans-Ludwig: *See*—
Lautsch, Hermann; Jacob, Hans-Ludwig; Hermanns, Peter; and Hermanns, Klaus,3,467,210.
Jacob, Harry J., Jr., to Warner & Swasey Company, The. Tool spindle mechanism. 3,474,705, 10-28-69, Cl. 90-11.
Jacob, Harry J., Jr.: *See*—
Laumann, Edward F.; and Jacob, Harry J., Jr.,3,449,822.
Jacob, Henri, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Highly fluid-tight valve and corresponding electrovalves. 3,464,668, 9-2-69, Cl. 251-129.
Jacob, Ingolf; and Ueberdiek, Ralf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of filaments of synthetic linear polymers of high molecular weight crimped during spinning. 3,480,709, 11-25-69, Cl. 264-237.
Jacob, Keith D., to Bendix Corporation, The. Single frequency communication repeater. 3,460,040, 8-5-69, Cl. 325-6.
Jacob, Marvin H., to Dale Electronics, Inc. Series resonant trap and method of making same. 3,435,386, 3-25-69, Cl. 333-76.
Jacob, Yuash Pete, to Continental Can Company, Inc. Blister package and product thereof. 3,476,239, 11-4-69, Cl. 206-78.
Jacobaeus, Anton Christian, to Telefonaktiebolaget L M Ericsson. Circuit arrangement for group selectors in automatic telephone exchanges. 3,426,157, 2-4-69, Cl. 179-18.
Jacobaeus, Anton Christian; and Larsson, Torsten Alrik, to Telefonaktiebolaget L M Ericsson. Connecting device for waiting in automatic telephone plants. 3,472,968, 10-14-69, Cl. 179-18.
Jacobelli, Franco: *See*—
Dakli, Ibrahim; Ercole, Pietro; and Jacobelli, Franco,3,423,411.
Jacobi, Charles G. Portable cable reel. 3,464,647, 9-2-69, Cl. 242-129.
Jacobi, Edward N., to Briggs & Stratton Corporation. Tumbler lock with automatic key ejector. 3,434,317, 3-25-69, Cl. 70-388.
Jacobi, Ernst: *See*—
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst,3,476,545.
Jacobi, Manfred: *See*—
Feinauer, Roland; Hamann, Karl; and Jacobi, Manfred,3,480,647.
Jacobi, Oskar, to Bergwerksverband G.m.b.H. Control system for aligning or turning longwall faces in mine workings lined with walking casing frames. 3,482,877, 12-9-69, Cl. 299-1.
Jacobi, Oskar; Irresberger, Hermann; Ratz, Bodo-Werner; and Rieschel, Hans. Mine roof support means. 3,437,010, 4-8-69, Cl. 91-189.
Jacobowsky, Armin: *See*—
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,476,955.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,484,493.
Jacobs, Alfred, to Glaverbel S.A. Furnace arrangement and method. 3,459,411, 8-5-69, Cl. 263-27.
Jacobs, Alfred: *See*—
Davenport, Buell Edward; Flynn, John Henry, IV; and Jacobs, Alfred,3,431,236.
Jacobs, Allen D.: *See*—
Siegel, Max; and Jacobs, Allen D.,3,480,974.
Jacobs, Alvin J., to North American Rockwell Corporation. Method of treating precipitation hardened alloys. 3,454,435, 7-8-69, Cl. 148-12.7
Jacobs, Carl M., to Tryco Manufacturing Co., Inc. Tool holder attachment for farm implement. 3,422,909, 1-21-69, Cl. 172-629.
Jacobs, Cornelis Adrianus Joannes: *See*—
van Boort, Henricus Johannes Joseph; and Jacobs, Cornelis Adrianus Joannes,3,484,637.
Jacobs, David R., to Franklin Electric Co., Inc. Limit switch control having switch mounting means. 3,461,254, 8-12-69, Cl. 200-47.
Jacobs, David: *See*—
Lange, Robert B.; Hebron, Roderick; and Jacobs, David,3,436,090.
Jacobs, Earl D.; and Quick, William H., to North American Rockwell Corporation. Sign detector. 3,428,816, 2-18-69, Cl. 250-218.
Jacobs, Earl D.: *See*—
Quick, William H.; and Jacobs, Earl D.,3,438,710.
Jacobs, F. L., Co.: *See*—
Blake, Jack W., 3,466,107.
De Boer, Henry, 3,453,034.
DeBoer, Henry, 3,460,876.
DeBoer, Henry, 3,460,877.
Jacobs, Fred. Air conditioning apparatus. 3,470,946, 10-7-69, Cl. 165-50.
Jacobs, George W., to Reliance Electric and Engineering Company The, mesne. Conventional elevator control with additional means to selectively lock out floors. 3,428,148, 2-18-69, Cl. 187-29.
Jacobs, Gus D. Traction device. 3,425,624, 2-4-69, Cl. 238-14.
Jacobs, Harold J. Expansion bolt assembly. 3,421,404, 1-14-69, Cl. 85-73.
Jacobs, Harry E.; Jubin, John C., Jr.; and Masologites, George P., to Atlantic Richfield Company. Hydrogenation of detergent alkylate. 3,454,666, 7-8-69, Cl. 260-674.
Jacobs, Harry E.: *See*—
Masologites, George P.; Jacobs, Harry E.; and White, Paul J.,3,472,759.
Masologites, George P.; Jacobs, Harry E.; and White, Paul J.,3,477,943.
Jacobs, Henry S. Induced current torque transmitters. 3,423,616, 1-21-69, Cl. 310-105.
Jacobs, Herbert V.; and Wajda, Michael L., to Jacobs Machine Corporation. Thread control. 3,425,375, 2-4-69, Cl. 112-218.
Jacobs, Irwin M.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,403.
Jacobs, Jacques M. H.; Hermsen, Andreas A. M.; Hendriks, Aalbert J.; and Teeling, Gerhardus A. M., to American Enka Corporation. Mixing apparatus. 3,423,076, 1-21-69, Cl. 259-180.
Jacobs, James W., to General Motors Corporation. Automatic liquid freezer. 3,433,030, 3-18-69, Cl. 62-186.
Jacobs, James W., to General Motors Corporation. Keeping insulation dry. 3,475,920, 11-4-69, Cl. 62-273.
Jacobs, James W.; and Williamitis, Victor A., to General Motors Corporation. Ice maker with oscillating movement during freezing. 3,451,227, 6-24-69, Cl. 62-345.
Jacobs, John H.; and Robinson, Charles F., to Bell & Howell Company. Information recording. 3,427,629, 2-11-69, Cl. 346-1.
Jacobs, John K.: *See*—
Geddes, Ray L.; and Jacobs, John K.,3,444,696.
Jacobs, Lorenz: *See*—
Bittner, Hans Joachim; and Jacobs, Lorenz,3,471,281.
Jacobs, Louis J.; Klaudinyi, Bela; and Fisher, Robert Earl, to Obermayer, S., Company, The. Expendable pattern for precision investment casting. 3,426,834, 2-11-69, Cl. 164-235.
Jacobs Machine Corporation: *See*—
Baron, Herschel; and Schwenk, Arthur, 3,463,482.
Jacobs, Herbert V.; and Wajda, Michael L., 3,425,375.
Jacobs Manufacturing Company, The: *See*—
Haviland, Girard S.; Gerber, Murray A.; and Stager, Francis W., 3,447,838.
Jacobs, Martin; and Roccatagliata, Raul J., to Combustion Engineering, Inc. Automatic furnace temperature control. 3,461,847, 8-19-69, Cl. 122-510.
Jacobs, Paul F.: *See*—
Cann, Gordon L.; Harder, Robert L.; and Jacobs, Paul F.,3,462,622.
Young, John T.; and Jacobs, Paul F.,3,464,810.
Jacobs, Paul H., to Motorola, Inc. Self-resetting semiconductor device protection circuit. 3,448,342, 6-3-69, Cl. 317-33.
Jacobs, Paul H.: *See*—
Russell, Daniel D., Jr.; Jacobs, Paul H.; and Wright, Larry R.,3,469,191.
Jacobs, Phil, Co., Inc.: *See*—
Jacobs, Phillip, 3,487,418.
Jacobs, Phillip, to Jacobs, Phil, Co., Inc. Maternity garment construction. 3,487,418, 12-30-69, Cl. 2-221.
Jacobs, Robert B. Vibrating transducer for flow and related measurements. 3,426,593, 2-11-69, Cl. 73-194.
Jacobs, Willi: *See*—
Beisner, Klaus; Jacobs, Willi; and Stockmann, Helmut,3,481,548.
Jacobs, Winston W., to New Rochelle Manufacturing Company. Vehicle with bridging structure. 3,427,746, 2-18-69, Cl. 46-206.
Jacobsen, Alfred, to Jenaer Glaswerk Schott & Gen. Attachment for introducing light into an image transmitting fiber-optical system for illuminating an object. 3,449,036, 6-10-69, Cl. 350-96.
Jacobsen, Alfred: *See*—
Dislich, Helmut; and Jacobsen, Alfred,3,480,458.

Jacobsen, Bent Bulow; and Roe, Frederick Ormesher, to International Standard Electric Corporation. Pilot signal control system that precompensates outgoing signals for doppler shift effects. 3,428,898, 2-18-69, Cl. 325-15.
Jacobsen, Clas, to Allmanna Svenska Elektriska Aktiebolaget. Deionization of a gas discharge device by varying the tube parameters. 3,435,287, 3-25-69, Cl. 315-110.
Jacobsen, Gordon R. Air turning vane with removable closure for insertion of acoustical material. 3,455,412, 7-15-69, Cl. 181-50.
Jacobsen, Harvey A.: *See—*
Solipasso, Victor M., 3,432,182.
Jacobsen, Jan Louis Wulff, to CCT Cinema Camera Technik AG. Stereo projector. 3,425,775, 2-4-69, Cl. 352-57.
Jacobsen, Jan Louis Wulff, to CCT Cinema Camera Technik AG. Stereo moving picture camera. 3,433,561, 3-18-69, Cl. 352-60.
Jacobsen, John B.; and Carpenter, William R., to Detrex Chemical Industries, Inc. Sight glass cleaning. 3,467,113, 9-16-69, Cl. 134-113.
Jacobsen Manufacturing Company: *See—*
Fishaw, Raymond J., 3,465,507.
Heth, Serman C., 3,423,912.
Heth, Sherman C.; and Lewis, Evan T., 3,429,109.
Heth, Sherman C.; Kaufman, Vernon R.; and Munson, Lyle G., 3,484,963.
Kaufman, Vernon R., 3,420,042.
Price, Warren H.; and Erickson, Donald G., 3,462,924.
Profenna, Leonardo C., 3,472,005.
Strasel, Raymond K., 3,429,110.
Jacobsen, Ronald Lowell; Kristoff, William Robert; Ohren, Tom H.; and Spatz, Dale, to Procter & Gamble Company, The. Feed device for a film reactor. 3,482,947, 12-9-69, Cl. 23-285.
Jacobsen, Sigurd S.; Bartosz, Frank J.; and Laidig, Manfred R., to Singer Company, The. Tufting presser foot for zigzag sewing machines. 3,420,197, 1-7-69, Cl. 112-235.
Jacobsen, Ulf J., to Jensen, Ejnar, & Son I/S. Mirror arrangement light source and photocell located on a common axis. 3,474,252, 10-21-69, Cl. 250-216.
Jacobsen, Walter C.: *See—*
Deli, Jack M.; Jacobsen, Walter C.; Fanslow, Ronald J.; and Mosquera, Hugo O.,3,452,835.
Jacobson, Alden H.: *See—*
Oslebo, Richard G.; Newton, Robert F.; and Jacobson, Alden H.,3,458,924.
Jacobson, Alexander D.: *See—*
Forward, Robert L.; and Jacobson, Alexander D.,3,442,566.
Jacobson, Amnon, to Koor Industries and Crafts Co. Ltd. Installation for approaching portions of an airplane. 3,465,846, 9-9-69, Cl. 182-36.
Jacobson, Arthur L. Natural response indicator and system. 3,474,408, 10-21-69, Cl. 340-27.
Jacobson, Benjamin B. Engine governor responsive to vehicle speed. 3,461,988, 8-19-69, Cl. 180-105.
Jacobson, Bernhard E., to Universal, Inc. Tandem pulley drive means. 3,443,679, 5-13-69, Cl. 198-203.
Jacobson, Carol I. Mathematic instruction aid. 3,430,362, 3-4-69, Cl. 35-31.
Jacobson, Chester F., to General Electric Company. Rechargeable battery operated cigarette lighter and recharging and storage device therefor. 3,448,365, 6-3-69, Cl. 320-2.
Jacobson, Clayton J. Power-driven aquatic vehicle. 3,426,724, 2-11-69, Cl. 115-70.
Jacobson, David Esriel; and Ek, Stig Yngve, to Wegematic Corporation. Wear reduction additives. 3,426,684, 2-11-69, Cl. 102-38.
Jacobson, Earl C. Positionable control assembly. 3,431,983, 3-11-69, Cl. 173-43.
Jacobson, Eric W.: *See—*
Zawacki, Arnold J.; and Jacobson, Eric W.,3,439,398.
Jacobson, Harvey B.,: *See—*
Brandon, Clarence W., 3,422,894.
Jacobson, Howard W.; and Pollock, Warren I., to Du Pont de Nemours, E. I., and Company. Chromium-containing silicide coatings on refractory-metal-base articles. 3,475,233, 10-28-69, Cl. 148-6.3
Jacobson, Kenneth E.; and Taylor, John T., to Beckman Instruments, Inc. Fluid coupling for continuous flow centrifuge. 3,443,747, 5-13-69, Cl. 233-22.
Jacobson, Leo V. Stapler. 3,451,606, 6-24-69, Cl. 227-110.
Jacobson, Ludwig A. Magnetic orthopedic device. 3,421,500, 1-14-69, Cl. 128-75.
Jacobson, Lynn A., to Massachusetts Institute of Technology. Rate counter. 3,486,007, 12-23-69, Cl. 235-92.
Jacobson, Martin, to Rau Findings Company. Snap fastener assembly. 3,454,993, 7-15-69, Cl. 24-217.
Jacobson, Morton J.; and Lundgren, Sten E., to Ampex Corporation. Surface finishing of magnetic tape by solvent exchange. 3,473,960, 10-21-69, Cl. 117-237.
Jacobson, Moses G.; and De Luca, Frank J., to Mine Safety Appliances Company. Gas detector. 3,455,807, 7-15-69, Cl. 204-195.
Jacobson, Paul E.: *See—*
Allison, Cecil Jay, Jr.; Jone, Paul Y.; and Jacobson, Paul E.,3,448,005.
Jacobson, Perry J. Tilting band saw. 3,452,629, 7-1-69, Cl. 83-201.
Jacobson, Robert L., to Chevron Research Company. Denitrification process with recycle of extracted nitrogen compounds. 3,436,340, 4-1-69, Cl. 208-254.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell, to Chevron Research Company. Low-pressure reforming process with a platinum- rhenium catalyst. 3,434,960, 3-25-69, Cl. 208-138.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell, to Chevron Research Company. Low pressure reforming with a platinum-rhenium- iridium catalyst. 3,487,009, 12-30-69, Cl. 208-138.
Jacobson, Robert L.; and Spurlock, Burwell, to Chevron Research Company. Startup procedure for a platinum-rhenium catalyst reforming process. 3,449,237, 6-10-69, Cl. 208-138.
Jacobson, Robert L.; and Tolberg, Ronald S., to Chevron Research Company. Catalytic refining with hydrogen. 3,425,934, 2-4-69, Cl. 208-254.
Jacobson, Walter E., to Revere Corporation of America. Load cell for measuring concentric or eccentric loads. 3,422,445, 1-14-69, Cl. 73-141.
Jacobson, Walter E., to Revere Corporation of America. Flexible structure for yieldably withstanding forces. 3,433,064, 3-18-69, Cl. 73-141.
Jacobson, William P., to Anderson Bros., Mfg., Co. Container with self-closing cover. 3,437,199, 4-8-69, Cl. 206-78.
Jacobus, Alexander L. Means of depressing and/or holding-down pre-ten- sioning tendons in pre-tensioned concrete members employing draped, harped or depressed tendons. 3,457,687, 7-29-69, Cl. 52-226.
Jacobus, Dwight W.: *See—*
Alvarez, Robert J.; and Jacobus, Dwight W.,3,437,244.
Jacobus, Floyd. Air injector for a carburetor. 3,437,467, 4-8-69, Cl. 48-180.
Jacobus, John Lindsey. Art of craftsmanship. 3,482,334, 12-9-69, Cl. 35-72.
Jacobus, Lewis A., Jr.: *See—*
Olmstead, John; Jacobus, Lewis A., Jr.; and Athanassiadis, Eleftherios G.,3,427,514.
Jacoby, Ben, Jr., to Owens-Illinois, Inc. Support structure for hollow article. 3,476,376, 11-4-69, Cl. 269-20.
Jacoby, Charles H., to International Salt Company. Solution mining and refining minerals. 3,421,794, 1-14-69, Cl. 299-5.
Jacoby, Charles H.; and Whelply, Frank V., to International Salt Company. Additive for inhibiting caking and freezing of sodium chloride and for inhibiting corrosion in the presence of sodium chloride brine. 3,428,571, 2-18-69, Cl. 252-383.
Jacoby, David; and Berhold, Rosalynne J., to Adolph's Food Products Mfg., Co. Meat additives. 3,469,995, 9-30-69, Cl. 99-108.
Jacoby, George V., to Radio Corporation of America. Self-synchronizing readout with low frequency compensation. 3,441,921, 4-29-69, Cl. 340-174.1
Jacoby, Hans; and Spauschus, Karl, to Werzeugmaschinenfabrik Gildemeister & Comp., A.G. Stock feed mechanism. 3,435,963, 4-1-69, Cl. 214-1.5
Jacoby, John Z.; and Vigliante, Frank S., to Bell Telephone Laboratories, Incorporated. Apparatus and method for telephone line scanning. 3,420,960, 1-7-69, Cl. 179-18.
Jacoby, Marvin: *See—*
Schonfeld, Arnold; and Jacoby, Marvin,3,485,970.
Jacoby, Robert H.; Morris, Earl E.; and Robinson, Robert L., Jr., to Pan American Petroleum Corporation. Recovery of oil by means of enriched gas injection. 3,465,823, 9-9-69, Cl. 166-263.
Jacocks, Claud L.: *See—*
Mc Claflin, Gifford G.; and Jacocks, Claud L.,3,466,242.
Jacon, Vital Charles Marius. Device for grinding crystal. 3,469,352, 9-30-69, Cl. 51-121.
Jacono, James F. Vehicular variable speed drive system. 3,429,394, 2-25-69, Cl. 180-70.
Jacquart, Christian A.: *See—*
Jousset, Antoine M.; and Jacquart, Christian A.,3,454,722.
Jousset, Antoine Marie; Jacquart, Christian Augustin; Le Goffic, Yves Henri; and Milon, Jean Emile,3,465,249.
Jacques, Edward J.: *See—*
Wozniak, John J.; and Jacques, Edward J.,3,430,963.
Jacques, James Keith, to Albright & Wilson (Mfg.) Limited. Phosphorus-containing flame retardant polyurethanes. 3,458,457, 7-29-69, Cl. 260-2.5
Jacques, James Keith: *See—*
Mole, Maurice Frederick; Jacques, James Keith; and Collins, John Desmond,3,442,986.
Jacques, James O.; Montgomery, David; and Kuckein, Paul A., to International Business Machines Corporation. Digital controller with automatic balance and manually adjusted operating point. 3,479,493, 11-18-69, Cl. 235-151.1
Jacques, Jean, to Merck & Co., Inc. Methylene-substituted-A-nor-gonanes. 3,439,022, 4-15-69, Cl. 260-488.
Jacques, Jean, to Merck & Co., Inc. 13-Alkyl A-nor-3-gonene-2-ones. 3,439,040, 4-15-69, Cl. 260-586.
Jacques, Lucien Gerard. Snow removing and melting machine. 3,456,368, 7-22-69, Cl. 37-12.

Jacques, Norman L.: *See*—
Speers, Samuel F.; and Jacques, Norman L.,3,475,042.
Speers, Samuel F.; Jacques, Norman L.; Guglielmi, Anthony C.; and Gray, Leonard,3,466,798.
Jacquier, Rene, to Plastugil. Process for preparing liquid resins capable of being rendered soluble in water in the form of a gel of thixotropic character. 3,464,944, 9-2-69, Cl. 260-23.5
Jacquot, Michel Jules: *See*—
Bertin, Jean Henri; and Jacquot, Michel Jules,3,482,645.
Jacumin, Jimmy R. Woodworking machine and method. 3,483,904, 12-16-69, Cl. 144-3.
Jacuzzi Bros., Incorporated: *See*—
Horan, Raymond E., Jr., 3,422,788.
Jacuzzi, Candido; Nash, Floyd M.; and Baroody, Anas J., 3,427,662.
Jacuzzi, Candido, 3,442,292.
Jacuzzi, Candido, 3,486,539.
Nash, Floyd M., 3,428,178.
Jacuzzi, Candido, to Jacuzzi Bros., Incorporated. Energy storage unit. 3,442,292, 5-6-69, Cl. 138-30.
Jacuzzi, Candido, to Jacuzzi Bros., Incorporated. Liquid dispensing and metering assembly. 3,486,539, 12-30-69, Cl. 141-329.
Jacuzzi, Candido; Nash, Floyd M.; and Baroody, Anas J., to Jacuzzi Bros., Incorporated. Swimming pool construction. 3,427,662, 2-18-69, Cl. 4-172.
Jacuzzi Research, Inc.: *See*—
Jacuzzi, Roy A., 3,452,370.
Jacuzzi, Roy A., to Jacuzzi Research, Inc. Hydromassage installation. 3,452,370, 7-1-69, Cl. 4-180.
Jade Corporation, The: *See*—
Delp, Winner F., 3,423,597.
Kauffman, John Edward, 3,436,810.
Jadus, Dale K.: *See*—
Rediker, Robert H.; Hinkley, Everett D.; and Jadus, Dale K.,3,486,949.
Jaecklin, Andre A., to Ampex Corporation. Thin film register forming an alternately staggered array. 3,474,425, 10-21-69, Cl. 340-174.
Jaecklin, Andre A.: *See*—
Wolf, Irving William; and Jaecklin, Andre A.,3,427,603.
Jaeger, Benjamin E., to Brockway Glass Company, Inc. Rotary screen decorating machine. 3,425,343, 2-4-69, Cl. 101-36.
Jaeger, Benjamin E., to Brockway Glass Company, Inc. Rotary screen decorating machine. 3,425,344, 2-4-69, Cl. 101-37.
Jaeger, Horst, to Ciba Limited. Process for the separation of mixtures of aliphatic fluorine compounds by azeotropic distillation with an oxgenated hydrocarbon. 3,449,218, 6-10-69, Cl. 203-44.
Jaeger, Joseph M. Leakage-limiting devices for rotative machinery applications. 3,460,843, 8-12-69, Cl. 277-26.
Jaeger, Karl-Heinz; and Mittenzwei, Hellmut, to Solco Basel AG. Preparation of growth regulating compositions comprising thymus extracts. 3,466,367, 9-9-69, Cl. 424-95.
Jaeger, Karl; and Scheffel, Werner, to Linde Aktiengesellschaft. Adsorption tower. 3,432,995, 3-18-69, Cl. 55-179.
Jaeger Machine Company, The: *See*—
Johanson, Frederic R., 3,447,575.
Johanson, Frederic R.; and Smith, Meredith E., Jr., 3,477,380.
Jaeger, Richard J., Jr.; and Joel, Amos E., Jr., to Bell Telephone Laboratories, Incorporated. Equipment for serving customer-dialed calls including those requiring operator assistance. 3,484,560, 12-16-69, Cl. 179-27.
Jaeger, Rudolf; and Macho, Helmut, to Saurer, Adolph, Ltd. Pirnless shuttle. 3,456,693, 7-22-69, Cl. 139-125.
Jaeger, Theodore D.: *See*—
Bell, John T.; and Jaeger, Theodore D.,3,465,652.
Bell, John T.; and Jaeger, Theodore D.,3,486,422.
Jaeger, Ulric R., to Olin Mathieson Chemical Corporation. In line heat exchanger with bypass. 3,439,739, 4-22-69, Cl. 165-164.
Jaeken, Jan, to Gevaert Photo-Producten N.V. Color photographic process. 3,447,923, 6-3-69, Cl. 96-55.
Jaeschke, Charles R.: *See*—
Dagnoli, Donato F.; Jaeschke, Charles R.; and Hooks, Arthur K.,3,483,966.
Jaeschke, Charles R.; and Novacek, William G., to Sprague Electric Company. Encapsulated component. 3,484,536, 12-16-69, Cl. 174-52.
Jaeschke, Ralph L., to Eaton Yale & Towne Inc. Inertia simulating apparatus. 3,456,498, 7-22-69, Cl. 73-116.
Jaeschke, Ralph L., to Eaton Yale & Towne, Inc. Eddy-current coupling. 3,478,239, 11-11-69, Cl. 310-105.
Jaeschke, Ralph L., to Eaton Yale & Towne, Inc. Eddy current coupling. 3,486,052, 12-23-69, Cl. 310-105.
Jaeschke, Ralph L.; and Smith, Aubrey H., to Eaton Yale & Towne, Inc. Press speed control system with eddy current brake-clutch and over-under speed protective device. 3,450,910, 6-17-69, Cl. 310-95.
Jaeschke, Walter: *See*—
Gerland, Heinz; Gotze, Werner; and Jaeschke, Walter,3,471,327.
Jaeschke, Wayne C.: *See*—
Curtis, Ralston; and Lukes, George E.,3,482,960.
Jaffe, Abram Aubrey; and Nadav, Eliahu, to Yissum Research Development Company. Fire and smoke detector. 3,470,551, 9-30-69, Cl. 340-237.
Jaffe, David Lawrence, to Polarad Electronics Corporation. Automatic pancake baker. 3,427,956, 2-18-69, Cl. 99-423.
Jaffe, Emanuel B.: *See*—
Peterson, Richard G.; and Jaffe, Emanuel B.,3,484,254.
Jaffe, Fred, to Grace, W. R., & Co. Esters of cyclohexane-1,2,4-tricarboxylic acid. 3,444,237, 5-13-69, Cl. 260-468.
Jaffe, Fred: *See*—
Marens, Nelson S.; and Jaffe, Fred,3,438,883.
Jaffe, Henry L.; and Adams, Ralph M., to Cedars of Lebanon-Mt. Sinai Hospitals of the Los Angeles Jewish Medical Center. Color adapter for multidetector scanner. 3,483,565, 12-9-69, Cl. 346-33.
Jaffe, Herbert Roy: *See*—
McIntyre, Matthew; Goodfellow, Harry Edwin; and Jaffe, Herbert Roy,3,468,186.
Jaffe, Joseph, to Chevron Research Company. Method of operating a hydrofining process. 3,434,965, 3-25-69, Cl. 208-254.
Jaffe, Martin A.; and Lipfert, Donald E., to Sterling Drug Inc. Aerosol inhalating device. 3,429,310, 2-25-69, Cl. 128-173.
Jaffe, Sol S.: *See*—
Grieger, Philip F.; and Jaffe, Sol S.,3,424,617.
Jaffee, Robert D.; Mark, Irving L.; and Downer, Darrell L., to Amco Wire Products Corp. Dishwasher rack. 3,442,397, 5-6-69, Cl. 211-71.
Jaffee, Robert I.: *See*—
Bradley, Elihu F.; Bartlett, Edwin S.; Ogden, Horace R.; and Jaffee, Robert I.,3,442,720.
Jaffee, Robert I., to Douglas Aircraft Company, Inc., mesne. Sandwich structures and method. 3,427,706, 2-18-69, Cl. 29-471.1
Jaffee, Robert I., to Battelle Development Corporation, The. Method of producing ribbed-metal sandwich structures. 3,447,231, 6-3-69, Cl. 29-423.
Jaffier, Pierre Louis-Marie, to Societe Industrielle d'Etudes et de Realisations Scientifiques S.I.E.R.S. Faucet. 3,464,446, 9-2-69, Cl. 137-606.
Jaffin, George M.: *See*—
French, Walter K.; and Taylor, Richard, 3,444,914.
Jagenberg-Werke AG: *See*—
Baucke, Horst, 3,433,476.
Meyer-Jagenberg, Gunther, 3,466,983.
Schonmeier, Herbert; and Mohle, Horst, 3,477,328.
Zodrow, Rudolf, 3,450,591.
Jagenburg & Media AB: *See*—
Lindstrom, Wictor Carl Olaf, 3,443,354.
Jager, Albert: *See*—
Steinhausen, Walter; Jager, Albert; Boroschewski, Gerhard; Peissker, Horst; and Arndt, Horst,3,484,526.
Jager, Edwin. Cooling device for cylindrical electrical components. 3,480,078, 11-25-69, Cl. 165-185.
Jager, Gerard: *See*—
Von Ardenne, Manfred; Heller, Jurgen; Jager, Gerard; and Rumberg, Heinz,3,457,569.
Jager, Heinz, to Westfalia Dinnendahl Groppel Aktiengesellschaft. Apparatus for drying and pre-heating of pulverulent material, particularly raw cement material. 3,419,968, 1-7-69, Cl. 34-57.
Jager, Heinz, to Westfalia Dinnendahl Groppel Aktiengesellschaft. Air classifier. 3,483,973, 12-16-69, Cl. 209-139.
Jager, Horst: *See*—
Schundehutte, Karl-Heinz; Trautner, Kersten; Horstmann, Walter; and Jager, Horst,3,484,450.
Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Azo dyestuffs containing a 2-organo sulfonylbenzo- thiazole group. 3,480,611, 11-25-69, Cl. 260-145.
Jager, Jolle: *See*—
Dijken, Reinder Hendrik; Jager, Jolle; and Krikke, Minne,3,432,701.
Jager, Karl, to International Standard Electric Corporation. Saturable core transformer circuit. 3,449,655, 6-10-69, Cl. 321-11.
Jager, Lothar, to North American Philips Company, Inc. Recording and/or play-back apparatus. 3,441,283, 4-29-69, Cl. 274-11.
Jager, Philipp, to Siemens Aktiengesellschaft. Valve for continuous removal of reaction water from a fuel cell. 3,479,224, 11-18-69, Cl. 136-86.
Jager, Rudolf; Macho, Helmut; and Zwiener, Rudolf, to Aktiengesellschaft Adolph Saurer. Weft thread holding arrangement. 3,430,665, 3-4-69, Cl. 139-116.
Jager, Sybout, to Werkspoor N.V. Centrifugal machine. 3,467,304, 9-16-69, Cl. 233-28.
Jager, Wolfgang; and Kossling, Alfred, to Veb Goephysik. Method of investigating subsurface bores and apparatus therefor. 3,443,642, 5-13-69, Cl. 166-315.
Jagersberger, Adolf, to Bleckmann & Co. Pressing and compressing tubular heaters. 3,478,423, 11-18-69, Cl. 29-615.
Jaggers, Henry T.; and Grant, Michael P., to Industrial Nucleonics Corporation. Hybrid phase dielectric materials gauging system with input signal frequency automatically variable in response to a

deviation from a reference phase shift which is also variable with frequency. 3,443,218, 5-6-69, Cl. 324-61.
Jagid, Bruce; and Rosansky, Martin G., to Leesona Corporation. Metal-oxygen fuel cell. 3,468,711, 9-23-69, Cl. 136-86.
Jago, John James, to Pilkington Brothers Limited. Liquid level indicating device. 3,444,737, 5-20-69, Cl. 73-290.
Jago, John J.; and Roberts, Deryck T., to Pilkington Brothers Limited. Method and apparatus for providing a gas curtain over a glass furnace window. 3,473,905, 10-21-69, Cl. 65-27.
Jagodzinski, Robert F.: *See—*
Francel, Josef; Jagodzinski, Robert F.; and Mansur, Fred E.,3,460,960.
Jagos, Frantisek, to Tesla, narodni podnik. Toroidal winding machine. 3,451,632, 6-24-69, Cl. 242-4.
Jahn, Alex K.; and Nelson, Alfred R., to Dow Chemical Company, The. Process for the preparation of polymers in bead form. 3,442,881, 5-6-69, Cl. 260-93.5
Jahn, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Process for increasing the reverse voltage of thermally oxidized silicon members with at least one barrier layer. 3,476,661, 11-4-69, Cl. 204-140.
Jahn, Fred L., to Textron Inc., mesne. Display for pictures, advertising information or any printed material. 3,444,638, 5-20-69, Cl. 40-158.
Jahn, Reinhardt H., to Chicago Metallic Sash Company. Ventilated suspended ceiling structure. 3,475,869, 11-4-69, Cl. 52-173.
Jahn, Ulrich: *See—*
Molnar, Istvan; Wagner-Jauregg, Theodor; Jahn, Ulrich; and Mixich, Georg,3,482,024.
Jahn, Walter, to Jenaer Glaswerk Schott & Gen. Optical crown glass on phosphate base. 3,455,707, 7-15-69, Cl. 106-47.
Jahn, Werner: *See—*
Kuhn, Richard; Jahn, Werner; and Dietmann, Karl,3,475,408.
Jahnig, Charles E.; and Lewis, Warren K., Jr., to Esso Research and Engineering Company. Co-production of coke and ammonia synthesis gases. 3,424,554, 1-28-69, Cl. 23-199.
Jahnig, Charles E.; and Schnepf, Robert W., to Esso Research and Engineering Company. Fluid coking using extraneous seed coke. 3,431,197, 3-4-69, Cl. 208-127.
Jahnke, Dietrich: *See—*
Reinheckel, Heinz; and Jahnke, Dietrich,3,440,286.
Jahnke, Herbert, to Constantin Graf Von Berckheim. Means for establishing an electrostatic field in an inhabitable enclosure. 3,483,672, 12-16-69, Cl. 55-146.
Jahnke, Richard W.: *See—*
Forsberg, John W.; and Jahnke, Richard W.,3,429,945.
Jahnke, Robert H.: *See—*
Graf, Raymond J.; Burns, Robert; and Jahnke, Robert H.,3,448,645.
Jahr, Richard T., to Franklin Manufacturing Company. Refrigerator door grounding arrangement. 3,467,938, 9-16-69, Cl. 339-4.
Jahren, Eugene J.: *See—*
Icken, Joseph M.; and Jahren, Eugene J.,3,448,189.
Jahrstorfer, George W.: *See—*
Gould, John V.; and Jahrstorfer, George W.,3,471,920.
Jakab, Gabor, to Dornier-Werke G.m.b.H. Homing system for aircraft. 3,423,051, 1-21-69, Cl. 244-76.
Jakab, Gabor, to Dornier-Werke G.m.b.H. Homing system for aircraft. 3,438,600, 4-15-69, Cl. 244-76.
Jakaitis, Eugene A.; Littler, Francis W.; and Roblendano, Emilio A., to Mobil Oil Corporation. Wax emulsions stabilized with a methyl cellulose ether. 3,432,319, 3-11-69, Cl. 106-170.
Jakas, Rimvydas P.; and Chorne, Juan, to General Electric Company. Method and means for separating individual fibers from a fibrous mass. 3,421,619, 1-14-69, Cl. 209-141.
Jakeway, Gerald V., to Keeler Brass Company. Louver assembly and control means. 3,456,574, 7-22-69, Cl. 98-121.
Jakimcius, Zigmant, to Barnes Drill Co. Abrading machine. 3,447,306, 6-3-69, Cl. 51-135.
Jaklevic, Robert C.: *See—*
Lambe, John J.; and Jaklevic, Robert C.,3,469,184.
Jakob, Fritz, to Linde Aktiengesellschaft. Rectification of liquefied coke oven gas portion by contact between liquefied and revaporized portions thereof. 3,436,925, 4-8-69, Cl. 62-27.
Jakob, Fritz, to Linde Aktiengesellschaft. High pressure vapor compression distillation. 3,477,918, 11-11-69, Cl. 203-11.
Jakob-Schild, Edwin F.: *See—*
Giger, Urs; and Jakob-Schild, Edwin F.,3,465,513.
Jakobsen, Johannes Andreas, to A/S Lysosund Sildolje- & Kraftforfabrik. Cooking apparatus. 3,469,523, 9-30-69, Cl. 99-404.
Jakobsson, Per; and Lonnberg, Stig. Device for plane cutting the surfaces of moulded blocks of lightweight concrete or similar material. 3,484,913, 12-23-69, Cl. 25-110.
Jakobsson, Rolf Elis; and Andersson, Kurt Allan, to Aktiebolaget Interconsult. Containers for the transport of fluidizable materials. 3,448,900, 6-10-69, Cl. 222-195.
Jakso, Sandor: *See—*
Alexander, Thomas W.; Malolepsy, Richard G.; and Jakso, Sandor,3,481,171.
Jakub, Victor P: *See—*
Hoover, Carl E.; and Finley, Otis E., 3,452,871.
Jakubec, Ivan: *See—*
Skrepek, Jan; and Jakubec, Ivan,3,422,641.
Jakubec, Jindrich: *See—*
Cermak, Jiri; and Jakubec, Jindrich,3,478,644.
Jakubowski, Theodore P.: *See—*
Jakubowski, Theodore P.; and Andreotta, Kenneth E., 3,473,253.
Jakubowski, Theodore P.; and Andreotta, Kenneth E., to Jakubowski, Theodore P., mesne. Bubble blowing device. 3,473,253, 10-21-69, Cl. 46-7.
Jam, Joseph C.: *See—*
Larson, Robert W.; and Jam, Joseph C.,3,452,888.
Larson, Robert W.; Jam, Joseph C.; and Lundberg, John P.,3,468,352.
Jamar, Walker, Jr. Display or divider panel stand. 3,421,272, 1-14-69, Cl. 52-127.
Jamba, Douglas M.: *See—*
Wilson, Robert G.; Brewer, George R.; and Jamba, Douglas M.,3,479,545.
Jambazian, Vartan M. Electronic sound signalling device. 3,460,136, 8-5-69, Cl. 340-384.
Jameel, Khaja Mohiuddin, to Associated Electrical Industries Limited. Electromagnetically-operated ratchet driven uniselector. 3,447,106, 5-27-69, Cl. 335-140.
Jameikis, Saulius M., to Admiral Corporation. Lighthouse alignment apparatus. 3,482,495, 12-9-69, Cl. 95-1.
Jamerson, Frank E.; Leffert, Charles B.; and Rees, David B., to General Motors Corporation. Nuclear thermionic converter. 3,480,803, 11-25-69, Cl. 310-4.
James, Albert L. Unheated dry lamination process for producing laminations from thermoplastic and substrates. 3,457,139, 7-22-69, Cl. 161-247.
James, Albert L., 60% to Heller, William C. Magnetic induction method for heat-sealing and bonding predetermined sealing areas. 3,461,014, 8-12-69, Cl. 156-272.
James, Carl A.; and Miller, John R., to Troxel Manufacturing Company. Bicycle saddle support means. 3,466,086, 9-9-69, Cl. 297-209.
James, Daniel H.: *See—*
Stonier, Russell W.; and James, Daniel H.,3,437,059.
James, David Charles. Gall bladder and common duct retractor. 3,467,079, 9-16-69, Cl. 128-20.
James, David D., to Du Pont de Nemours, E. I., and Company. Multipack carrier. 3,439,798, 4-22-69, Cl. 206-65.
James, David Richard, to Sonomotive Engineering Limited. Percussive tools and machines. 3,456,741, 7-22-69, Cl. 173-116.
James, David Richard, to Sonomotive Engineering Limited. Percussive tools and machines. 3,456,742, 7-22-69, Cl. 173-116.
James, David Richard, to Sonomotive Engineers Limited. Percussive tools and machines. 3,460,636, 8-12-69, Cl. 173-116.
James, David T.; and Krup, Donald ., to Ideal Industries, Inc. Clamp type explosion connector. 3,487,161, 12-30-69, Cl. 174-94.
James, Donald R., to Brown International Corporation. Drupe orienting apparatus. 3,486,603, 12-30-69, Cl. 198-33.
James, Edward, Jr.: *See—*
Finger, Milton; James, Edward, Jr.; and Archibald, Paul B.,3,480,490.
James Electronics, Inc.: *See—*
Muenow, Richard A.; and Plice, Gerald W., 3,431,462.
James, Eliott D.: *See—*
Andrews, Donald R.; and James, Eliott D.,3,465,302.
James, Emily; and Henson, Robert W., to Henson-Kickernick, Inc. Brassiere. 3,430,632, 3-4-69, Cl. 128-425.
James, Emrys C., to Radio Corporation of America. Write verification for a recording system. 3,434,156, 3-18-69, Cl. 346-74.
James, Forrest H., Jr., to Diversified Products Corporation. Barbell weight. 3,463,486, 8-26-69, Cl. 272-84.
James, Forrest H., Jr., to Diversified Products Corporation. Cementitious dumbbell. 3,482,834, 12-9-69, Cl. 272-84.
James, Forrest H., Jr.: *See—*
Ammondson, Clayton J.; Cockrell, Eldridge H.; Silberman, Ira J.; and James, Forrest H., Jr.,3,464,692.
James, Frank C., to Wyott Corporation. Onion harvesting machine. 3,451,485, 6-24-69, Cl. 171-36.
James, Fred W. Door hinge and latch mechanism. 3,436,860, 4-8-69, Cl. 49-192.
James, George A., to F & E Manufacturing Company. Vacuum motor. 3,433,132, 3-18-69, Cl. 92-48.
James, George Russell, to Chemical Construction Corporation. Process for the production of sulfur trioxide and sulfuric acid. 3,455,652, 7-15-69, Cl. 23-168.
James, Glenn D. Water desalinization system. 3,450,602, 6-17-69, Cl. 203-11.
James, John Bernard, to International Computers and Tabulators Limited. Method of manufacture of information storage device. 3,435,519, 4-1-69, Cl. 29-604.

James, John C.; Wineman, Robert J.; and Gollis, Morton H., to United States of America, Army, mesne. 2-[3-(Morpholinopropyl)amino] ethanethiol or its acid addition salts. 3,462,429, 8-19-69, Cl. 260-247.1

James, John C.; Wineman, Robert J.; Gollis, Morton H., deceased; and Gollis, Bernard; administratrix, to Monsanto Research Corporation. Cyclic oxyalkyl compounds. 3,454,627, 7-8-69, Cl. 260-501.21

James, Kenneth F.; and Joyce, Alexander H., to General Motors Corporation. Sheet metal forming dies. 3,422,663, 1-21-69, Cl. 72-476.

James, Michael Joseph, to Micro and Precision Mouldings (Cheltenham) Limited. Door catches. 3,430,999, 3-4-69, Cl. 292-75.

James, Michael, to Pfizer, Chas., & Co., Inc. Dispenser for powders. 3,426,949, 2-11-69, Cl. 222-499.

James, Peter: *See*—
Korolick, Samuel R.; Barron, Edward R.; James, Peter; and Carlucci, Michael P.,3,452,362.

James, Raymond H.; Korkowski, Vincent J.; and Nistler, Philip J., to Sperry Rand Corporation. Transient signal recording system utilizing different frequency recording drivers including means for sampling different portions of the transient signal at different frequencies. 3,431,492, 3-4-69, Cl. 324-102.

James, Raymond H.; and Lundberg, Charles W., to Sperry Rand Corporation. Magnetic memory comparator. 3,423,738, 1-21-69, Cl. 340-174.

James, Raymond H.: *See*—
Harklau, Lanny L.; and James, Raymond H.,3,432,821.
Hewitt, Fred G.; and James, Raymond H.,3,432,829.
Korkowski, Vincent J.; Belcourt, Francis J.; and James, Raymond H.,3,427,601.
Korkowski, Vincent J.; Hewitt, Fred G.; and James, Raymond H.,3,432,819.
Lundberg, Charles W.; Hewitt, Fred G.; James, Raymond H.; and Korkowski, Vincent J.,3,432,818.
White, Robert A.; and James, Raymond H.,3,457,554.

James, Richard N., to International Business Machines Corporation. Retainer for flexible leads. 3,473,769, 10-21-69, Cl. 248-69.

James, Robert A. Bearing. 3,436,129, 4-1-69, Cl. 308-3.

James, Robert C., to Hayssen Manufacturing Company, mesne. Compressed heat shrunk package. 3,458,036, 7-29-69, Cl. 206-65.

James, Robert E., to Shunk Manufacturing Company, Inc., The. Adjustable load divider. 3,467,028, 9-16-69, Cl. 105-376.

James, Robert E.; and Keeney, Clare G., to Sylvania Electric Products, Inc. Radiation sensitive intrusion detection system. 3,436,554, 4-1-69, Cl. 250-221.

James, Robert L., to Bendix Corporation, The. Differential preamplifier network for a sample- data motor speed control. 3,436,636, 4-1-69, Cl. 318-331.

James, Robert L., to Bendix Corporation, The. Signal sampler network. 3,449,597, 6-10-69, Cl. 307-257.

James, Robert L., to Bendix Corporation, The. Solid state microcircuit integrator synchronizer system. 3,465,134, 9-2-69, Cl. 235-183.

James, Robert L., to Bendix Corporation, The. Gain adjustment network for multiplying and dividing input signals. 3,473,043, 10-14-69, Cl. 307-230.

James, Robert L., to Bendix Corporation, The. Voltage to frequency converter. 3,482,116, 12-2-69, Cl. 307-261.

James, Robert L., to Bendix Corporation, The. Pulse sample type demodulator including feedback stabilizing means. 3,482,174, 12-2-69, Cl. 329-101.

James, Robert L., to Bendix Corporation, The. Pulse width modulator network. 3,486,100, 12-23-69, Cl. 318-341.

James, Robert L., to Bendix Corporation, The. Pulse generator. 3,486,133, 12-23-69, Cl. 331-111.

James, Robert L.; and Moreines, Harold, to Bendix Corporation, The. Pulse width modulated servo drive control system. 3,436,635, 4-1-69, Cl. 310-318.

James, Robert Ludlow, to Bendix Corporation, The. Timing means including first and second timing networks to selectively gate turn-on devices in opposite senses in response to control pulses. 3,465,236, 9-2-69, Cl. 323-18.

James, Robert S.: *See*—
Annunziata, Eugene J.; James, Robert S.; King, Lewis E.; and Pierce, Edwin B.,3,432,813.

James, Robert W.: *See*—
Pierce, Kenneth L.; and James, Robert W.,3,450,656.

James, Russell P. Device for cutting roofing and the like. 3,486,228, 12-30-69, Cl. 30-294.

James, Steve C.: *See*—
Barber, Richard P.; Barnhardt, Paul G.; and James, Steve C.,3,457,025.

James, Sven Fritiof. Method and apparatus for shaping cloth. 3,473,707, 10-21-69, Cl. 223-57.

James, T. L., & Company, Inc.: *See*—
Burkhalter, Harvey Don; and Russell, Ernest J., 3,460,288.
Burkhalter, Harvey Donovan, 3,460,594.

James, Thomas H.: *See*—
Waywell, Thomas; and James, Thomas H.,3,484,054.

James, Virgil C.: *See*—
Babson, Robert G.; and James, Virgil C.,3,474,680.

James, Wilbur Gerald; and Mould, John C., to Melpar, Inc. Multiple channel digital readout system. 3,448,446, 6-3-69, Cl. 340-347.

James, William E.: *See*—
Crane, Jack W.; Nolt, Edwin B.; and James, William E.,3,464,346.

James, William G., to General Electric Company. Plural coated transparent colored lamp and method of forming same. 3,420,694, 1-7-69, Cl. 117-73.

Jamesbury Corporation: *See*—
Gordon, Bennett E., Jr., 3,486,733.

Jameson, Neal E., to FMC Corporation. Material transferring apparatus. 3,442,307, 5-6-69, Cl. 141-387.

Jameson, Stanley R.: *See*—
Brilando, Frank P.; Jameson, Stanley R.; and Blaho, Rudolph G.,3,426,614.

Jameson, William L.: *See*—
Odenberg, Richard; and Jameson, William L.,3,475,653.

Jamgochian, Haigh, to Dotts, Walter M., Jr. Embossed curtainwall with overlapped portions. 3,462,901, 8-26-69, Cl. 52-316.

Jamieson, Hugh W.: *See*—
Smith, Charles J.; Jamieson, Hugh W.; and Douglas, David W.,3,458,205.

Jamieson, Paul H. Methods of and compositions for coloring colloid coated surfaces. 3,445,176, 5-20-69, Cl. 8-3.

Jamini, Marco A., to United States of America, Atomic Energy Commission. P-contact for compensated P-germanium crystal. 3,461,005, 8-12-69, Cl. 148-186.

Jamison, Egbert Grant: *See*—
Hatfield, Herbert M.; Jamison, Egbert Grant; and Jamison, Robert Warren,3,486,751.

Jamison, Fred W. Electrical wall plug. 3,466,454, 9-9-69, Cl. 307-12.

Jamison, George E.: *See*—
Geib, Clarence B., Jr.; Jamison, George E.; and Scott, Jack N.,3,439,240.

Jamison Inc.: *See*—
Hatfield, Herbert M.; Jamison, Egbert Grant; and Jamison, Robert Warren, 3,486,751.

Jamison, James Austin. Tie rack. 3,452,881, 7-1-69, Cl. 211-119.

Jamison, Richard S.: *See*—
O'Brien, Lawrence H.; and Jamison, Richard S.,3,434,148.

Jamison, Robert M.: *See*—
Arnold, Orlan M.; Hanson, Victor W.; Jamison, Robert M.; Panzica, Nicholas J.; and Umbricht, Emil,3,475,881.
Panzica, Nicholas J.; Jamison, Robert M.; and Umbricht, Emil,3,444,669.

Jamison, Robert Warren: *See*—
Hatfield, Herbert M.; Jamison, Egbert Grant; and Jamison, Robert Warren,3,486,751.

Jamison, Samuel James, to Johnson & Johnson. Prefolded woven diaper with single ply widthwise edge portions. 3,422,815, 1-21-69, Cl. 128-284.

Jamison, Saunders E., to Celanese Corporation. Process for spinning filaments of nonuniform cross section. 3,422,176, 1-14-69, Cl. 264-167.

Jamison, Saunders E.: *See*—
Epstein, Martin E.; and Jamison, Saunders E.,3,461,882.
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley,3,444,863.

Jamison, Saunders Eliot, to Celanese Corporation. Process of spinning filaments of vinylidene cyanide. 3,474,163, 10-21-69, Cl. 264-210.

Jamison, Warner A.; and Pilcher, Robert M., to Standard Pressed Steel Co. Temperature indicating means. 3,442,249, 5-6-69, Cl. 116-114.5

Jamison, Will B.: *See*—
Jackovitz, John F.; and Jamison, Will B.,3,422,011.

Jammet, Jean Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Leakproof electrochemical cell and method of making same. 3,433,681, 3-18-69, Cl. 136-133.

Jammet, Jean Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Disposable flashlight. 3,443,084, 5-6-69, Cl. 240-10.65

Jammet, Jean Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Manganese dioxide-zinc alkaline secondary cell. 3,463,669, 8-26-69, Cl. 136-6.

Janacek, Jerry C., to General Electric Company. Extended range infrared moisture gage standards. 3,478,210, 11-11-69, Cl. 250-83.

Janakirama-Rao, Bhogaraju V., to Owens-Illinois, Inc. Vanadium-zinc borate solder glasses. 3,446,695, 5-27-69, Cl. 161-192.

Janakirama-Rao, Bhogaraju V., to TRW Inc. Alkaline earth oxide/fluoride-rare earth oxide-silicon dioxide glass compositions. 3,468,682, 9-23-69, Cl. 106-52.

Janakirama-Rao, Bhogaraju V., to Owens-Illinois, Inc. Novel glass compositions. 3,486,914, 12-30-69, Cl. 106-47.

Janapol, Melvin N., to Wortso Corporation. Dual firmness spring for bedding and the like. 3,430,275, 3-4-69, Cl. 5-351.

Janapol, Melvin N., to Wortso Corporation. Stiff framed mattress having sectional flexibility. 3,456,271, 7-22-69, Cl. 5-351.

Janc, Robert V., to Motorola, Inc. Method and system for detecting tone signal by mixing with local oscillation closely spaced in frequency and selecting difference signal. 3,470,479, 9-30-69, Cl. 325-364.
Janci, Jan: *See*—
Zemanek, Rudolf; Fellegi, Jan; and Janci, Jan,3,425,545.
Janczur, Zbigniew J., to Marotta Valve Corporation. Magnetic latch for magnetically operated valve. 3,461,911, 8-19-69, Cl. 137-625.5
Janczur, Zbigniew J., to Marotta Valve Corporation. Valve for use in high pressure environment. 3,472,483, 10-14-69, Cl. 251-129.
Jander, Kent, to Standard Oil Company (Indiana). Method for coalescing a dispersed aqueous caustic phase from a stream of hydrocarbons. 3,445,399, 5-20-69, Cl. 252-324.
Jandras, Henry L., to Bethlehem Steel Corporation. Method for producing high purity copper castings. 3,470,936, 10-7-69, Cl. 164-61.
Janecek, Jaroslav; and Muselik, Miloslav, to Adamovske Strojirny, narodni podnik. Automatic shut-off mechanism for a printing machine. 3,467,372, 9-16-69, Cl. 271-56.
Janecek, Louis J., to Mahon, R. C., Company, The. Method of forming an industrial oven wall construction. 3,457,629, 7-29-69, Cl. 29-455.
Janes, Edward F.: *See*—
Bunn, Dorrance P., Jr.; and Janes, Edward F.,3,445,542.
Bunn, Dorrance P., Jr.; Janes, Edward F.; and Williams, Dale,3,476,818.
Janes, George S.; and Levy, Richard H., to Avco Corporation. Electrical devices. 3,441,756, 4-29-69, Cl. 310-11.
Janes, Milton, to Union Carbide Corporation. Coke production. 3,451,921, 6-24-69, Cl. 208-46.
Janes, Norman Frank: *See*—
Elliott, Michael; and Janes, Norman Frank,3,466,304.
Janes, William Henry: *See*—
Candlin, John Paton; and Janes, William Henry,3,436,431.
O'Brien, Stephen; Janes, William Henry; Taylor, Keith Andrew; and Todd, Peter Frank,3,436,383.
Janetz, Ralph Walter, to International Telephone and Telegraph Corporation Limited. Centrifugal pumps. 3,457,869, 7-29-69, Cl. 103-104.
Jang, Samuel W.: *See*—
Steele, Richard K.; Cruise, Thamo C.; and Jang, Samuel W.,3,427,876.
Jangg, Gerhard. Process for the production of molybdenum and tungsten and their alloys using amalgams. 3,480,428, 11-25-69, Cl. 75-84.5
Janich, Martin B.: *See*—
Miller, Floyd B.; Janich, Martin B.; and McWilliams, John A.,3,446,394.
Janicki, Jozef: *See*—
Pazola, Zdzislaw; Switek, Henryk; Janicki, Jozef; and Michnikowska, Wanda,3,476,646.
Janigian, Kenneth E.; and Lachman, Arthur G., to Continental Room Service, Inc. Dispensing system and dispenser assembly therefor. 3,447,720, 6-3-69, Cl. 222-36.
Janikowski, Stanislaw Maria: *See*—
Chapman, John Dickinson; Dee, Geoffrey Thomas; Janikowski, Stanislaw Maria; and Peters, Roger Hugh,3,449,107.
Janis, Leo B.: *See*—
Ozolins, Rudolfs A., 3,444,278.
Janis, Peter: *See*—
Downing, Arthur H.; and Janis, Peter,3,465,198.
Janiske, Donald J., to Resistance Welder Corporation. Dual shuttle driving arrangement for manufacturing refrigerator cabinets or the like. 3,473,643, 10-21-69, Cl. 198-19.
Janiszewski, Anthony T.: *See*—
Giraud, Denise C.; Janiszewski, Anthony T.; and Glass, Marvin I.,3,481,605.
Janiszewski, Anthony T.; and Ancevicius, Dalia E., to Glass, Marvin, & Associates. Card comparison game. 3,471,148, 10-7-69, Cl. 273-1.
Janiszewski, Casimer: *See*—
Binks, Chester J.; and Janiszewski, Casimer,3,443,852.
Janiszewski, Casimer, to Blakeslee, G. S., & Co. Dishwashing machine spray box mounting means. 3,443,568, 5-13-69, Cl. 134-199.
Jankay, Lester. Method and apparatus for in-vivo-like maintenance of blood in vitro. 3,441,479, 4-29-69, Cl. 195-1.8
Janke, Donald E., to Whirlpool Corporation. Electronic control circuit for a dryer. 3,471,939, 10-14-69, Cl. 34-45.
Janke, Fritz, to General Motors Corporation. Lubricating arrangements for motor vehicle change- speed gearing. 3,467,221, 9-16-69, Cl. 184-6.
Jankowiak, Erwin M.: *See*—
Wernette, Gary E.; and Jankowiak, Erwin M.,3,467,558.
Jankowiak, Roman: *See*—
Haefner, Arthur E.; Pierson, Edward G.; and Jankowiak, Roman,3,473,543.
Jankowitz, Gerald; and Falbel, Gerald, to Barnes Engineering Company. Gun-flash detector. 3,476,938, 11-4-69, Cl. 250-83.3
Jankowski, Alfons; Kolling, Georg; and Paulsen, Siegfried, to Bergwerksverband GmbH. Method for the preparation of cyclic carboxylic acid hydrazides. 3,472,846, 10-14-69, Cl. 260-250.
Janner, Karl; and Budnick, Dietrich, to Siemens Aktiengesellschaft. Thermionic converter. 3,444,400, 5-13-69, Cl. 310-4.
Jannett, Frederick Joseph, to Western Electric Company, Incorporated. Apparatus for winding tapes onto mandrels. 3,471,098, 10-7-69, Cl. 242-56.1
Janninck, Donald R., to United States Gypsum Company. Sag-resistant gypsum board and method therefor. 3,486,965, 12-30-69, Cl. 161-43.
Janninck, William L., to Illinois Tool Works Inc. Double wall cup. 3,456,860, 7-22-69, Cl. 229-1.5
Janning, Fred J., to Warner & Swasey Company, The. Twister device for use in a balling apparatus. 3,437,278, 4-8-69, Cl. 242-54.4
Janning, John L., to Ledex, Inc. Field effect device having an electrolytically insulated gate. 3,445,732, 5-20-69, Cl. 317-234.
Janning, John L., to National Cash Register Company, The. Thermal half-select printing matrix. 3,466,423, 9-9-69, Cl. 219-216.
Janning, John L., 1/3 to Dybvig, H. Talman, and Dybvig, Roger S. Breath operated device. 3,479,561, 11-18-69, Cl. 315-119.
Janome Sewing Machine Co., Ltd.: *See*—
Eguchi, Yasukata, 3,447,498.
Eguchi, Yasukata; and Uchida, Kazuo, 3,460,498.
Eguchi, Yasukata, 3,485,194.
Hanyu, Susumu; and Kasuga, Noboru, 3,426,712.
Hanyu, Susumu, 3,433,092.
Kasuga, Noboru, 3,455,258.
Kato, Kenzi, 3,477,003.
Nakajima, Yoshihiko; and Hara, Kazumasa, 3,447,499.
Janosik, James Phillip: *See*—
Stiegler, Theodore Donald; Janosik, James Phillip; and Burns, Edward Brantley,,3,460,776.
Janoska, Georges: *See*—
Chaveneaud, Roger; and Janoska, Georges,3,444,340.
Janoska, Georges, to Societe a Responsabilite Limitee: Societe Lamy d'Etudes et de Recherches 'Soler' et de Recherches Soler. Apparatus for driving rotary electric switches. 3,427,411, 2-11-69, Cl. 200-38.
Janosky, Walter J., to Libbey-Owens-Ford Company. Multiple position rear view mirror with unitary plastic hinge bracket. 3,472,580, 10-14-69, Cl. 350-281.
Janovtchik, Viacheslav Jansen; and Catelli, Camillo, to Heinz, H. V., Company Limited. Freeze drying apparatus. 3,469,327, 9-30-69, Cl. 34-92.
Janowiecki, Richard J.: *See*—
Henderson, Courtland M.; and Janowiecki, Richard J.,3,485,680.
Jansen, Alexander Bertus Arnold: *See*—
Crook, Leonard Robert; Jansen, Alexander Bertus Arnold; Spencer, Kenneth Eric Vincent; and Watson, David Harris,3,457,272.
Jansen, Francis J.; Reynolds, Robert W.; and Shimabukuro, George T., to Xerox Corporation. Recording stylus control system. 3,445,587, 5-20-69, Cl. 178-6.6
Jansen, Hansjorg, to Gulf General Atomic Incorporated, mesne. Magnetic forming apparatus. 3,427,842, 2-18-69, Cl. 72-56.
Jansen, Hansjorg; and Wildi, Paul, to Gulf General Atomic Incorporated. Electromagnetic forming apparatus. 3,426,564, 2-11-69, Cl. 72-56.
Jansen, Harry B. Fastener with spring biased lock. 3,464,474, 9-2-69, Cl. 151-24.
Jansen, Helmut Hugo Georg Alexander. Device for automatically recording blood settling. 3,422,443, 1-14-69, Cl. 346-107.
Jansen, Johannes Adrianus Cornelis; and Ekkelboom, Tjepke Hendrik, to U.S. Philips Corporation, mesne. Electrode for an electrical discharge device. 3,484,639, 12-16-69, Cl. 313-184.
Jansen, Johannes T., to Hoffman, P. R., Company. Stabilized rotary sawing machine. 3,483,858, 12-16-69, Cl. 125-13.
Jansen, Joseph Nicholas; and Staggs, Oscar L., to Motorola, Inc. High peak power waveguide junction circulators having inductive posts in each port for tuning circulator. 3,466,571, 9-9-69, Cl. 333-1.1
Jansen, Lodewijk, to Gebr. Stork & Co's Apparatenfabriek N.V. Method and device for inhibiting corrosion in sterilizers. 3,445,179, 5-20-69, Cl. 21-2.7
Jansen, Wilhelm; and Bollmann, Gustav, to Klockner-Humboldt-Deutz Aktiengesellschaft. Control device for a driving and steering transmission for track laying vehicles. 3,420,394, 1-7-69, Cl. 214-776.
Jansens, Richard: *See*—
Forrat, Francis; and Jansens, Richard,3,420,780.
Janshego, James A.: *See*—
Vansickle, Robert H.; Linger, Oren R.; and Janshego, James A.,3,481,368.
Jansing, Walter: *See*—
Dreyer, Siegfried; Harde, Rudolf; Jansing, Walter; Kalkoffen, Friedel; Mausbeck, Hans; and Schnittker, Werner,3,438,431.

Janson, Eugene Ernst; and Thomas, Lucius Ponder, to Radio Corporation of America. Threshold control for sync separator noise protection circuit and for AGC stage. 3,441,669, 4-29-69, Cl. 178-7.3
Janson, Hans Georg: *See*—
Donges, Ernst; and Janson, Hans Georg,3,486,994.
Holemann, Hans; Janson, Hans Georg; and Moeller, August,3,460,903.
Janson, Heino: *See*—
Horvath, Tibor, 3,439,548.
Janson, Stig; and Janson, Ulf Stig, to Alfa-Laval AB. Equipment for facilitating the milking of cows in cowsheds. 3,456,619, 7-22-69, Cl. 119-27.
Janson, Ulf Stig: *See*—
Janson, Stig; and Janson, Ulf Stig,3,456,619.
Janson, William A., to North American Rockwell Corporation. Gas filter structure. 3,422,602, 1-21-69, Cl. 55-378.
Janson, William A.: *See*—
Brown, Richard E.; and Janson, William A.,3,425,334.
Janss, John E.; and Guernsey, Richard H., to American Hospital Supply Corporation. Combination shipping and storing container for slides. 3,467,251, 9-16-69, Cl. 206-62.
Janssen, Arnoldus Joseph. Chair or like furniture. 3,482,870, 12-9-69, Cl. 297-92.
Janssen, Hans-Joachim, to Licentia Patent-Verwaltungs-G.m.b.H. Vibration-insulating mounting. 3,459,977, 8-5-69, Cl. 310-51.
Janssen, Hans-Joachim; and Schutte, Reinhold, to Licentia Patent-Verwaltungs-G.m.b.H. Electric motor mounting arrangement. 3,434,723, 3-25-69, Cl. 274-1.
Janssen, Johannes Gerardus: *See*—
Tusa, John; and Janssen, Johannes Gerardus,3,441,643.
Janssen, Paul Adriaan Jan, to Research Laboratorium Dr. C. Janssen N. V. 1-Aroylalkyl derivatives of arylhydroxypyrroli- dines and arylhydroxypiperidines. 3,438,991, 4-15-69, Cl. 260-294.7
Janssen, Peter Johannes Hubertus, to U.S. Philips Corporation, mesne. Contrast control circuit for a television receiver. 3,440,343, 4-22-69, Cl. 178-7.3
Janssen, Peter Johannes Hubertus, to North American Philips Company, Inc. High voltage rectifier array including a neutralizing conductor. 3,444,452, 5-13-69, Cl. 321-11.
Janssen, Peter Johannes Hubertus: *See*—
Smeulers, Wouter; and Janssen, Peter Johannes Hubertus,3,434,004.
Janssen Pharmaceutica, N.V.: *See*—
Busschots, Armand August Florent, 3,482,962.
Godefroi, Erik Fred; and Van Der Eijcken, Cyriel Alfons Maria, 3,485,917.
Janssen, Rainer; Helm, Dietrich; and Griebsch, Eugen, to Schering AG. Cured and curable compositions comprising a polyglycidyl ether of a polymeric fatty alcohol. 3,483,146, 12-9-69, Cl. 260-2.
Janssen, Sylvain Jean, to Compagnie des Compteurs. Device for measuring the surface tension of liquids. 3,448,605, 6-10-69, Cl. 73-64.4
Janssens, Henri Hubert; Westerveld, Willem; and Nijland, Louis Marius, to U.S. Philips Corporation, mesne. Electroluminescent screen composition. 3,449,260, 6-10-69, Cl. 252-301.6
Jansson, Arnold O., to United-Carr Incorporated, mesne. Insulated molding fastener. 3,461,637, 8-19-69, Cl. 52-718.
Jansson, Bengt K. B., to Stabilator Aktiebolag. Grouting material circulating valve means in conjunction with earth drilling tubes. 3,422,903, 1-21-69, Cl. 166-224.
Jansson, Bernt I., to AGA Aktiebolag. Intermittent positive pressure resuscitator. 3,474,785, 10-28-69, Cl. 128-145.7
Jansson, Bernt Inge: *See*—
Arnell, Jon Arne; and Jansson, Bernt Inge,3,442,427.
Jansson, Bernt Inge; and Arnell, Jon Arne, to AGA Aktiebolag. Portable tank assembly for breathing apparatus. 3,483,865, 12-16-69, Cl. 128-142.
Jansson, Robert Mauritz; Strandell, Erik Axel; and Wik, Claes Gustaf, to Aktiebolaget Atomenergi. Drying of powder. 3,456,708, 7-22-69, Cl. 159-42.
Jansson, Sven Arne Martin, to System Paulin Aktiebolag. Gear pump with valve mechanism. 3,427,981, 2-18-69, Cl. 103-41.
Jansson, Sven-Olof. Thermostatic control device for a three phase type electrical apparatus. 3,482,195, 12-2-69, Cl. 337-321.
Jansz, Joost W., to Hollandsche Beton Maatschappij N.V. Hydraulic pile driving device. 3,431,986, 3-11-69, Cl. 173-134.
Jantz, Ronald K.: *See*—
Bassen, Howard; and Jantz, Ronald K.,3,475,755.
Jantze, Clyde E.; Arnott, Edward A.; and Scott, Earl V., to Continental Can Company, Inc. Double-seaming method and apparatus for can closing machine. 3,465,703, 9-9-69, Cl. 113-30.
Jantzen, George H., to Steinthal, M., & Co., Inc. Strap connector. 3,429,537, 2-25-69, Cl. 248-223.
Jantzen, George H., to Steinthal, M., & Co., Inc. Safety belt buckle. 3,431,606, 3-11-69, Cl. 24-230.
Jantzen, George H., to Steinthal, M., & Co., Inc. Shoulder harness retractor. 3,439,933, 4-22-69, Cl. 280-150.
Jantzen, George H., to Steinthal, M., & Co., Inc. Seat belt retractor. 3,439,952, 4-22-69, Cl. 297-388.
Japan Atomic Energy Research Institute: *See*—
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko, 3,439,410.
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko, 3,439,858.
Gotohda, Masao; Kubota, Hiroshi; Nozaki, Fumio; and Omi, Shinzo, 3,481,848.
Kagiya, Tsutomu; Machi, Sueo; Hagiwara, Miyuki; and Kise, Seiichi, 3,471,463.
Moriuchi, Shigeru, 3,441,733.
Nozawa, Masao; Sako, Kiyoshi; and Ueda, Hiroshi, 3,446,188.
Japan Broadcasting Corporation: *See*—
Yanagimachi, Akio; Iwasawa, Takashi; Masuko, Hitoshi; and Yaguchi, Keiichi, 3,454,713.
Japan Exlan Company Limited: *See*—
Fujita, Yoshimasa; Nakagawa, Kazumi; Shimoda, Keitaro; and Miyashita, Koji, 3,434,276.
Ichimi, Teruhiko; Okazaki, Takeshi; Tsutsui, Nobuhiro; and Minami, Shinsaku, 3,455,771.
Nakagawa, Kazumi; Tsutsui, Nobuhiro; and Sumi, Takehiko, 3,451,140.
Nakagawa, Kazumi; Kuratani, Keijiro; Tsutsui, Nobuhiro; and Minami, Shinsaku, 3,463,846.
Oonishi, Yasuo; Okazaki, Takeshi; and Kubo, Masashi, 3,477,109.
Shibukawa, Takashi; and Ozaki, Masahiko, 3,483,172.
Shimoda, Keitaro; and Miyashita, Koji, 3,426,117.
Japan Gas-Chemical Company, Inc.: *See*—
Asaka, Mitsuo; Komatsu, Makoto; and Jufiyama, Susumu, 3,436,437.
Huang, Ching Yun; and Maeda, Masayoshi, 3,441,519.
Huang, Ching Yun; and Kizaki, Shoji, 3,481,892.
Igarashi, Yukio; Komatsu, Makoto; Fujiyama, Susumu; and Okamoto, Kazuo, 3,432,556.
Jotoku, Minoru; Naka, Shinya; and Inada, Naohiko, 3,459,511.
Kaneko, Kyozo; Matsuzawa, Tadahiro; Okouchi, Hideo; Nishimura, Tadao; and Yamamoto, Yukimasa, 3,466,338.
Murayama, Masayuki, 3,441,599.
Ueno, Tamotsu; and Nakano, Takashi, 3,458,590.
Yamauchi, Saburo; Taura, Teruchika; Isogai, Yuzuru; and Seino, Hideki, 3,469,372.
Japan Gasoline Co., Ltd.: *See*—
Sato, Fukuzo; Okagami, Akio; and Ueno, Toshihiro, 3,452,106.
Watanabe, Isaburo; Yoshioka, Haruo; Sanga, Seiji; Egashira, Shohachi; and Ohki, Taketo, 3,429,680.
Japan National Railways: *See*—
Shiomi, Hajime; and Hashimoto, Kazuo, 3,455,065.
Japan Petroleum Development Corporation: *See*—
Nakayama, Yoshihiro, 3,424,258.
Japan Pure Hydrogen Company Ltd.: *See*—
Eguchi, Takashi; Iwabuchi, Shinichi; and Akiyama, Takao, 3,467,493.
Japan Radio Company Limited: *See*—
Tsumura, Takao; Kadooka, Toshio; Suzuki, Keisuke; and Kitayama, Noboru, 3,444,553.
Japan Stationery Co., Ltd., the: *See*—
Yamashita, Nagahiro, 3,477,791.
Japan Storage Battery Co., Ltd.: *See*—
Takatsuka, Kenji; and Toyooka, Shigetsugu, 3,441,813.
Japan Synthetic Rubber Co., Ltd.: *See*—
Matsumoto, Tsuyoshi; Ito, Tokuo; Komatsu, Kouei; Yasunaga, Hidetoshi; and Ueda, Kenichi, 3,471,462.
Mori, Kan; Kawakami, Masato; Sugihara, Yasumi; Kimura, Shoji; Shibata, Tooru; and Kogure, Akira, 3,466,272.
Mori, Kan; Suminoe, Taro; Yamazaki, Tamotu; Ishikawa, Tunezo; and Kogure, Akira, 3,479,331.
Okuya, Eitaro; Ito, Tokuo; Sakaguchi, Akio; Komatsu, Koei; and Yasunaga, Hidetoshi, 3,454,680.
Ueda, Kenichi; Yasunaga, Hidetoshi; and Komatsu, Kouei, 3,432,517.
Umeno, Masashi; Miyake, Makoto; and Tosaki, Chikao, 3,479,858.
Yasunaga, Hidetoshi; Ichikawa, Tatsuo; Yamato, Hiroaki; Ikeda, Mitsuru; Ozawa, Nobuo; and Ueda, Kenichi, 3,464,965.
Japanese Geon Company, Ltd., The: *See*—
Asai, Harmumi; Komai, Hisataka; and Hada, Nobuhide, 3,468,856.
Sakuragi, Taketami; Jyo, Yoshio; Akiyama, Shinichi; and Minami, Shoichiro, 3,454,446.
Takao, Susumu; and Hokari, Hiroshi, 3,436,436.
Takao, Susumu; and Hokari, Hiroshi, 3,436,438.
Japanese National Railways: *See*—
Matsubara, Kentaro; and Tohyama, Seikichi, 3,430,857.
Sato, Yutaka, 3,432,098.
Umemori, Takashi; and Kawamura, Mitsuo, 3,483,471.
Japhet, Richard E., to Worthington Corporation. Induction unit with bypass means. 3,454,079, 7-8-69, Cl. 165-38.
Japikse, Cornelis H., to Procter & Gamble Company, The. Edible emulsions containing oleaginous gels. 3,425,843, 2-4-69, Cl. 99-144.

Japikse, Cornelis, to Procter & Gamble Company, The. Food spreads containing oleaginous gels. 3,425,842, 2-4-69, Cl. 99-122.

Jaques, Roland; and Desaulles, Pierre-Antoine, to Ciba Corporation. Use of substituted hydroquinones for the medicinal treatment of inflammaions. 3,462,531, 8-19-69, Cl. 424-244.

Jaquet, Francis, to Girard-Perregaux et Cie S.A. High-frequency watch movement. 3,465,515, 9-9-69, Cl. 58-107.

Jaquith, Howard R.; McCarthy, James L.; Nichols, Nathaniel B.; and Norton, Stanley C., Jr., to Sybron Corporation. Movable magnet magnetic flux transducers and transduction systems for indicating magnet position. 3,480,854, 11-25-69, Cl. 324-34.

Jaquith, Howard R.; and Norton, Stanley G., Jr., to Sybron Corporation. Process control instrument having signal booster. 3,433,239, 3-18-69, Cl. 137-85.

Jaramillo, Lily: *See*—
Bustos, Epifanio G., 3,421,144.

Jarboe, Charles H.; and Buckler, Robert Thomas, to United States of America, Health, Education, and Welfare. Strained ring central nervous system depressants. 3,429,912, 2-25-69, Cl. 260-468.

Jarby, Sven. Material for filing cavities. 3,469,317, 9-30-69, Cl. 32-15.

Jardine, Norman McL.: *See*—
Travers, Robert; and Jardine, Norman McL.,3,457,126.

Jared Marshall; and Steer, Colin, to United Kingdom Atomic Energy Authority. Method of making tubes. 3,486,219, 12-30-69, Cl. 29-480.

Jared, Richard C.: *See*—
Bowman, Harry R.; Thompson, Stanley G.; Hyde, Earl K.; and Jared, Richard C.,3,433,954.

Jaremus, Boubene M.: *See*—
Boehmer, Andrew P.; and Jaremus, Boubene M.,3,451,904.

Jari Corporation: *See*—
Fiske, Chester G., 3,423,856.

Jark, Fred: *See*—
Titchenal, Oliver R.; Jark, Fred; Coombes, William S.; and Ruf, Walter,3,465,876.

Jarke Corporation: *See*—
Allen, William A., 3,462,030.
Jay, Richard S., 3,476,260.

Jarman-Williamson Company: *See*—
Leitzel, Ammon M., 3,433,497.

Jarnagan, Max; and Sosalla, Harry L., to Noble Manufacturing Company. Hydraulic coupler. 3,482,602, 12-9-69, Cl. 137-614.03

Jarneklev, Duane R.: *See*—
Brokke, Mervin E.; Lukes, George E.; and Jarneklev, Duane R.,3,438,983.

Jarnhs Elektriska Aktiebolag: *See*—
Holm, Sune Erik; and Jevbratt, Lars Torsten, 3,443,503.

Jarosz, Stanislas; and Kenny, David Patrick, to United Aircraft of Canada Limited. Diffuser construction. 3,420,435, 1-7-69, Cl. 230-132.

Jarowenko, Wadym: *See*—
Caldwell, Carlyle G.; Jarowenko, Wadym; and Hodgkin, Irving D.,3,459,632.

Jarowenko, Wadym; and McGovern, Joseph P., to National Starch and Chemical Corporation. Color stabilized dextrin adhesives. 3,454,411, 7-8-69, Cl. 106-208.

Jarrad, Donald S., to Motorola, Inc. Ohmic contact consisting of a bilayer of gold and molybdenum over an alloyed regim of aluminum silicon. 3,436,616, 4-1-69, Cl. 317-234.

Jarreby, Karl Axel Bertil, to Skandinaviska Apparatindustri Aktiebolaget Saiap. Heat exchange roll. 3,425,488, 2-4-69, Cl. 165-90.

Jarret, Jacques: *See*—
Jarret, Jean; and Jarret, Jacques,3,435,266.
Jarret, Jean; and Jarret, Jacques,3,466,479.
Jarret, Jean; and Jarret, Jacques,3,481,417.

Jarret, Jean; and Jarret, Jacques. Variable speed electric motor. 3,435,266, 3-25-69, Cl. 310-164.

Jarret, Jean; and Jarret, Jacques. Low-inertia variable-reluctance electrical machine. 3,466,479, 9-9-69, Cl. 310-168.

Jarret, Jean; and Jarret, Jacques, to Societe Anonyme Elpalux. Directional and propulsive control device for an electric vehicle. 3,481,417, 12-2-69, Cl. 180-6.5

Jarrett, Arthur D., to Polaroid Corporation. Monoazo pyrazolone dyes. 3,424,742, 1-28-69, Cl. 260-162.

Jarrett, Roy Chester; and Patrick, Richard William, to AMP Incorporated. Card reader improvement. 3,448,248, 6-3-69, Cl. 235-61.11

Jarund, Harry Sigvard Valdemar: *See*—
Rausing, Gad Anders; and Jarund, Harry Sigvard Valdemar,3,431,700.

Jaruzelski, John J.: *See*—
Small, Augustus B.; Jaruzelski, John J.; and Lenas, Leandros P.,3,474,066.

Jarvi, Reino A., to Simpson Timber Company. Wood panel overlay and method and manufacture. 3,448,001, 6-3-69, Cl. 161-261.

Jarvi, Reino A.: *See*—
Clausen, Victor H.; Jarvi, Reino A.; and Zweig, Arnold,3,451,374.

Jarvie, John M.: *See*—
Hardwick, Thomas J.; and Jarvie, John M.,3,458,416.

Jarvis, Edwin W.; and Casey, Dahl B., to Kold Kist, Inc. Slicer. 3,474,842, 10-28-69, Cl. 146-106.

Jarvis, James G.: *See*—
Robinson, Gene H.; and Jarvis, James G.,3,449,658.

Jarvis, James K.: *See*—
Bell, James C.; and Jarvis, James K.,3,484,788.

Jarvis, Jay P.: *See*—
Vartanian, Edwin S.; and Jarvis, Jay P.,3,432,955.

Jarvis, John Roy, to Postmaster General, Her Majesty's. Electrical communication systems. 3,453,594, 7-1-69, Cl. 340-146.1

Jarvis, John R. Coin operated electronic timer with quenching means. 3,458,771, 7-29-69, Cl. 317-142.

Jarvis, Marvin A., to United States of America, Interior, mesne. Porous membrane support. 3,450,267, 6-17-69, Cl. 210-321.

Jarvis, Marvin A.; and Marks, Murray, to Aerojet-General Corporation. Means for controlling concentration of dissolved solids adjacent to reverse osmosis membrane surfaces in desalination device. 3,456,805, 7-22-69, Cl. 210-321.

Jasaitis, Tadas K.: *See*—
Pall, David B.; and Jasaitis, Tadas K.,3,457,339.

Jasberg, Peter M., to Bunker Hill Company, The. Hydraulic cathode stripper for metals electrolytically deposited. 3,472,249, 10-14-69, Cl. 134-46.

Jasek, Albert W., to Esso Research and Engineering Company. Meter proving. 3,457,768, 7-29-69, Cl. 73-3.

Jasinski, Amy L.; and Walmsley, Judith A., to Owens-Illinois, Inc. Compositions comprising acid-catalyzed and alkaline-catalyzed organopolysiloxanes. 3,428,706, 2-18-69, Cl. 260-825.

Jasionowski, Walter J., to Everpure Inc. Method and apparatus for filtering and dosing a liquid. 3,442,800, 5-6-69, Cl. 210-57.

Jason, Alfred C., to Minister of Technology, The. Thawing of frozen blocks. 3,474,221, 10-21-69, Cl. 219-200.

Jason, William M., to Bemiss-Jason Corporation. Garland. 3,453,170, 7-1-69, Cl. 161-14.

Jasorka, Larry P.: *See*—
Carlson, Robert M.; Jasorka, Larry P.; Mulconrey, John F.; and Trimble, Glenn A.,3,458,931.

Jasorka, Larry P.; and Richards, Edward E., III, to Western Electric Company, Incorporated. Surface wiring assist device for selecting wire lengths and terminal pairs to be interconnected thereby with connection status indication. 3,440,531, 4-22-69, Cl. 324-66.

Jasovsky, Joseph F., to Ardmaer Trucking Co., Inc. Tractor-trailer hose interconnection. 3,420,546, 1-7-69, Cl. 280-421.

Jasper Electronic Mfg., Corp.: *See*—
Welsh, Alan B.; and West, Roger, 3,421,403.
Welsh, Alan B.; and West, Roger T., 3,422,209.

Jasper, Leslie L.: *See*—
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr.,3,423,677.

Jasper, Leslie L., to Texas Instruments, Incorporated. System for producing equal and opposite pulses on selected channels. 3,459,969, 8-5-69, Cl. 307-262.

Jasper, Ronald J.; and Gustafson, George W., to Lamb-Grays Harbor Co., Inc. Wrapper dispensing and roll wrapping mechanism. 3,429,097, 2-25-69, Cl. 53-66.

Jastrow, Horst: *See*—
Bohn, Lothar; Jastrow, Horst; Leugering, Jans-Joachim; and Vetter, Hans-Joachim,3,472,917.

Jastrzebski, Michael B.: *See*—
Nemphos, Speros P.; and Jastrzebski, Michael B.,3,475,514.

Jastrzembski, Walfried. Drive control for a D.C. motor. 3,422,334, 1-14-69, Cl. 318-439.

Jaszka, Danile J., to Hooker Chemical Corporation. Phosphonitrilic polymers. 3,442,629, 5-6-69, Cl. 23-357.

Jatras, Stephen J.: *See*—
Harrison, Wayne E.; and Jatras, Stephen J.,3,471,863.
Harrison, Wayne E.; and Jatras, Stephen J.,3,482,254.

Jatul, Bernard; and Costello, Christopher, to Colgate-Palmolive Company. Sprayed opaque bandage composition. 3,476,853, 11-4-69, Cl. 424-45.

Jaulmes, Eric, to Ateliers de la Motobecane, Societe Anonyme. Bearing arrangement for dismountable bicycle. 3,438,650, 4-15-69, Cl. 280-279.

Jaulmes, Eric, to Ateliers de la Motobecane, Societe Anonyme. Fluid pressure operated vane motor, especially for nut and the like driving machines. 3,483,932, 12-16-69, Cl. 173-12.

Jaunin, Roland; and Zeller, Paul, to Hoffmann-La Roche Inc. Substituted hydrazine compounds. 3,441,594, 4-29-69, Cl. 260-471.

Jaunin, Roland; and Zeller, Paul, to Hoffmann-La Roche Inc. Substituted hydrazine compounds. 3,441,595, 4-29-69, Cl. 260-471.

Jaunin, Roland: *See*—
Gutmann, Hugo; Jaunin, Roland; Kaiser, Ado; and Zeller, Paul,3,459,799.

Jaupain, Maurice, to Glaverbel S.A. Glass composition. 3,468,681, 9-23-69, Cl. 106-47.

Jaupain, Maurice: *See*—
Plumat, Emile; and Jaupain, Maurice,3,425,851.

Jauvtis, Harvey I.: *See—*
Spain, Robert J.; and Jauvtis, Harvey I.,3,461,442.
Spain, Robert J.; and Jauvtis, Harvey I.,3,465,316.
Javaux, Gustave, to Glaverbel S.A. Glass furnace wall arrangement. 3,442,635, 5-6-69, Cl. 65-168.
Javellaud, Jean; Robin, Marc; and Dupuy, Gerard, to Commissariat a l'Energie Atomique. Devices for holding a sample to be irradiated in a nuclear reactor. 3,454,465, 7-8-69, Cl. 176-15.
Javid, Farnhang, to Cameron Machine Company. Sheet handling and sampling apparatus. 3,469,836, 9-30-69, Cl. 271-64.
Javorich, William J.: *See—*
Beutler, Warren E.; and Javorich, William J.,3,486,179.
Javorik, Laszlo, to National Video Corporation. Method of manufacturing cathode ray tube. 3,441,333, 4-29-69, Cl. 316-26.
Javorik, Laszlo: *See—*
Schwartz, James W.; and Javorik, Laszlo,3,449,611.
JAWA, narodni podnik: *See—*
Marcik, Milos; Jokl, Rudolf; Kubinek, Jiri; and Ritschl, Evzen, 3,447,519.
Ritschl, Evzen; and Kubinek, Jiri, 3,428,153.
Jaworski, Stanley F.: *See—*
Bittel, Fred F.; and Jaworski, Stanley F.,3,456,558.
Jay, Aubrey, to Penny, J. C., Company, Inc. Alteration of permanently pressed garments. 3,435,463, 4-1-69, Cl. 2-269.
Jay, Frederic C.: *See—*
Zeigler, James K., 3,438,412.
Jay, Richard S., to Jarke Corporation. Storage rack for cylindrical containers. 3,476,260, 11-4-69, Cl. 211-71.
Jay-El Products, Inc.: *See—*
McMains, Billy D.; and Friedman, Marvin L., 3,426,942.
Jayasimha, Mysore Somasekhara Rau: *See—*
Das Gupta, Ranjit; Jayasimha, Mysore Somasekhara Rau; Sitaramarao, Krishnappa; and Yegnanarayan, Rangaiyer,3,436,568.
Jaybee Manufacturing Corporation: *See—*
Bereznak, John, 3,431,587.
Jaye, Richard C., to Western Industries, Inc. Evaporator pad. 3,479,018, 11-18-69, Cl. 261-103.
Jayko, Michael E., to Crete, Charles A. Photoelectric absorption measurer having plunger for enclosing variable beam path lengths. 3,448,277, 6-3-69, Cl. 250-218.
Jaylis Industries, Inc.: *See—*
Crenshaw, David, 3,454,693.
Jayne, Keith D.: *See—*
Hanekamp, Robert D.; and Jayne, Keith D.,3,467,237.
Jayne, Max L., to Sylvania Electric Products Inc. Electrical connector having facile engagement means. 3,432,795, 3-11-69, Cl. 339-17.
Jayne, Theodore D., to Nibco Inc., mesne. Soft solder joints and methods and materials for producing the same. 3,453,721, 7-8-69, Cl. 29-489.
Jayne-Williams, Derek James: *See—*
Burton, Harold; Pavey, John Anthony; Jayne-Williams, Derek James; and Hansen, William Frederick,3,486,840.
Jazbutis, Anatolijus; and Swanson, Richard T., to Aetna Casualty and Surety Company, mesne. Simulator. 3,478,442, 11-18-69, Cl. 35-11.
J. B. Foundry Co., The: *See—*
Hauser, Hans, 3,426,611.
Jeakle, William G.: *See—*
Engle, Jack F.; and Jeakle, William G.,3,429,400.
Jeal, Harvey Philip, to Avdel Limited. Blind rivet with self-plugging mandrel. 3,426,375, 2-11-69, Cl. 10-27.
Jean, Bernard Louis Pierre: *See—*
Berth, Michel; and Jean, Bernard Louis Pierre,3,456,312.
Jean, Henri; and Thibault, Claude, to Compagnie de Saint-Gobain. Gas phase manufacture of polyformaldehyde. 3,428,604, 2-18-69, Cl. 260-67.
Jeandupeux, Hubert E. Apparatus for the manufacture of long-pile rugs by knotting pile tufts in a fabric. 3,467,145, 9-16-69, Cl. 139-1.
Jeaneau, Adrien Louis Marie, to Etablissement J. J. Carnaud & Forges de Basse-Indre. Suspension devices fixed on receptacles, in particular on metal receptacles. 3,448,893, 6-10-69, Cl. 220-91.
Jeanmaire, Walter. Device for regulating the quantity delivered by a tuft feeder to cards. 3,474,501, 10-28-69, Cl. 19-105.
Jeanmart, Claude: *See—*
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum,3,424,748.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum,3,450,698.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum,3,455,917.
Jeanmonod, Roland, to Ebauches S.A. Electric timepiece. 3,465,510, 9-9-69, Cl. 58-28.
Jeanneret, Jules Louis. Machining device having selectively controlled feed speeds. 3,429,205, 2-25-69, Cl. 77-32.7
Jeannerett, Wallace S.: *See—*
Cugini, Edward T.; and Jeannerett, Wallace S.,3,437,149.
Jeannette, Joseph C., to Air Reduction Company, Incorporated. Wire feed apparatus. 3,447,730, 6-3-69, Cl. 226-176.
Jeantils, Claude; Grosclaude, Etienne; Garlot, Christian; and Petruzzi, Nicolino, to Les Laboratoires Dausse. Monohydrate of equimolecular complex of ascorbic acid and pyridoxine base. 3,459,761, 8-5-69, Cl. 260-297.5
Jeater, Roger Sidney Lockington: *See—*
Crowdy, Stephen Henry; Farrington, John Alan; and Jeater, Roger Sidney Lockington,3,449,110.
Jeavons, Daniel, to Taylor & Challen Limited. Press with adjustable brake cam to compensate for change in stroke. 3,463,286, 8-26-69, Cl. 192-134.
Jeavons, Daniel, to Taylor & Challen Limited. Press brakes. 3,470,989, 10-7-69, Cl. 192-130.
Jebco, Inc.: *See—*
Roesel, John F., Jr., 3,454,864.
Jechin, Harry, to Dossert Manufacturing Corporation. Multi-linked flexible connector. 3,487,159, 12-30-69, Cl. 174-72.
Jecker, Andrew E.: *See—*
Asmus, Richard W.; and Jecker, Andrew E.,3,428,202.
Asmus, Richard W.; and Jecker, Andrew E.,3,473,691.
Jeco Co., Ltd.: *See—*
Ishikawa, Kazuo; and Iwaki, Koichi, 3,485,032.
Jednacz, Thomas C., to Borg-Warner Corporation. Rectifier system with zero crossing control circuit for semiconductor switches. 3,437,904, 4-8-69, Cl. 321-5.
Jednacz, Thomas C., to Borg-Warner Corporation. Rectifier system for energizing thermoelectric load. 3,439,509, 4-22-69, Cl. 62-3.
Jednacz, Thomas C.; and Schmittle, Karl V., to Borg-Warner Corporation. Rectifier system with integral cycle control. 3,434,032, 3-18-69, Cl. 321-5.
Jedso Industries, Inc.: *See—*
Djedda, Fouad H., 3,477,723.
Jeff, William C.; and Luyster, Thomas, Jr., to Armitage, John L., & Co. Process for obtaining low bake paint films of improved cure and abrasion resistance. 3,420,692, 1-7-69, Cl. 117-63.
Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., to Armitage, John L., & Co. Primer coating compositions containing carboxylated butadiene acrylonitrile copolymer, vinyl chloride copolymer, a polyacrylate, an epoxide resin and a phenol-formaldehyde resin. 3,480,691, 11-25-69, Cl. 260-831.
Jeffee, Saul P.; and Limnios, Gus, to Movielab, Inc. Cleaning and cooling system for photographic printing apparatus. 3,466,995, 9-16-69, Cl. 98-33.
Jeffee, Saul. Apparatus for processing film. 3,422,479, 1-21-69, Cl. 15-100.
Jeffee, Saul. Locking arrangement with indicator. 3,427,835, 2-18-69, Cl. 70-432.
Jeffee, Saul; and Kowalak, John, to Movielab, Inc. Film printing apparatus. 3,428,399, 2-18-69, Cl. 355-100.
Jeffers & Bailey, Inc.: *See—*
Jeffers, William D., 3,421,249.
Jeffers, F. Eugene: *See—*
Paes, Dale R.; and Jeffers, F. Eugene,3,441,315.
Jeffers, Homer A., Jr.: *See—*
Deines, Siegmund; Jeffers, Homer A., Jr.; Monroe, Wayne W.; and Mattingly, John W.,3,484,885.
Jeffers, Walter K., to Crouse-Hinds Company. Traffic signaling system. 3,484,742, 12-16-69, Cl. 340-40.
Jeffers, William D., to Jeffers & Bailey, Inc. Fishhook. 3,421,249, 1-14-69, Cl. 43-42.37
Jefferson Chemical Company, Inc.: *See—*
Cavitt, Stanley B., 3,420,799.
Cavitt, Stanley B., 3,433,806.
Cavitt, Stanley B., 3,436,427.
Cavitt, Stanley B.; and Speranza, George P., 3,448,153.
Johnson, Fred L., Jr; and Brader, Walter H., Jr., 3,481,837.
Johnson, Gerald A., 3,459,498.
Kelly, Peter B., 3,422,054.
Lichtenwalter, Myrl; and Burns, Simon Pierce, 3,477,919.
Lichtenwalter, Myrl; and Cour, Thomas H., 3,484,488.
Metzger, Sidney H., Jr., 3,457,279.
Milligan, John G.; and Cour, Thomas H., 3,448,152.
Muhlbauer, Herbert G., 3,420,828.
Rice, Doris M., 3,467,606.
Rowton, Richard L., 3,441,598.
Tomomatsu, Hideo, 3,422,040.
Tomomatsu, Hideo, 3,436,360.
Tomomatsu, Hideo, 3,448,064.
Tomomatsu, Hideo, 3,459,685.
Jefferson, Clifford T., Jr.: *See—*
Skaggs, Clyde W.; and Jefferson, Clifford T., Jr.,3,423,205.
Jefferson Electric Company: *See—*
Luchetta, Julius F., 3,484,535.
Jefferson Mills, Inc., The: *See—*
Bryan, Morris M., Jr.; and Roberts, Morris W., 3,441,984.
Bryan, Morris M., Jr., 3,441,991.
Bryan, Morris M., Jr., 3,443,373.
Bryan, Morris M., Jr.; and Roberts, Morris W., 3,448,492.

Bryan, Morris M., Jr.; and Roberts, Morris W., 3,448,936.
Bryan, Morris M., Jr., 3,483,598.
Elsas, Norman E.; and Bryan, Thomas M., II, 3,460,212.

Jefferson, Peter J.: *See*—
Patterson, Colin D.; and Jefferson, Peter J.,3,425,037.

Jefferson Tank & Seat Mfg., Co., Inc.: *See*—
Pisciotta, Humbert A.; and Pisciotta, Anthony T., Jr., 3,479,501.

Jefferson, Walter R., to Stewart-Warner Corporation. Electrical boat-speedometer apparatus. 3,482,444, 12-9-69, Cl. 73-186.

Jeffery, Elton E., Sr. Optical plumb including means to level. 3,475,101, 10-28-69, Cl. 356-150.

Jeffery, Glynn Bennett. Rotary switches. 3,477,047, 11-4-69, Cl. 335-206.

Jeffery, James H., Jr. Center steering four-wheel drive vehicle. 3,484,964, 12-23-69, Cl. 37-117.5

Jeffery, Walter S., to Kaluim Chemicals Limited. Prevention of sulfate scale formation. 3,433,603, 3-18-69, Cl. 23-300.

Jeffery, Warren C.; and Teague, Sidney P., to McWane Cast Iron Pipe Company. Pipe coupling. 3,433,509, 3-18-69, Cl. 285-374.

Jeffery, Warren C.; and Teague, Sidney P., to McWane Cast Iron Pipe Company. Pipe coupling. 3,480,300, 11-25-69, Cl. 285-93.

Jeffery, Warren C.; and Teague, Sidney P., to McWane Cast Iron Pipe Company. Internal lock ring bell and spigot joint. 3,480,302, 11-25-69, Cl. 285-362.

Jefferys, Henry J., to Reynolds Metals Company. Handrail and post assembly. 3,420,505, 1-7-69, Cl. 256-22.

Jefferys, Henry J., to Reynolds Metals Company. Deformable rail. 3,471,128, 10-7-69, Cl. 256-22.

Jeffes, Robert Henry Francis. Telescopic coupling. 3,437,355, 4-8-69, Cl. 280-478.

Jeffree, John H., to Caps (Research) Limited. Projection objective for microfilm enlargers. 3,446,547, 5-27-69, Cl. 350-215.

Jeffrey, Alastair D.: *See*—
Jeffrey, Alina A., 3,473,167.

Jeffrey, Alina A., 50% to Jeffrey, Alastair D. Multiple use dress. 3,473,167, 10-21-69, Cl. 2-74.

Jeffrey Galion Manufacturing Company: *See*—
Andrae, Karl H., 3,430,874.
Andrae, Karl H., 3,481,547.
Cline, Jerome F., 3,468,456.
McCracken, William E., 3,479,090.
Roberts, James H., 3,454,109.
Stauffer, Robert E., 3,437,166.
Stauffer, Robert E., 3,478,894.

Jeffreys, Lyman W., to Amsted Industries Incorporated. Casting apparatus. 3,459,256, 8-5-69, Cl. 164-342.

Jeffreys, Lyman W., to Amsted Industries Incorporated. Mold cleaner. 3,479,678, 11-25-69, Cl. 15-21.

Jeffreys, Roy A., to Eastman Kodak Company. Synthesis of photographic sensitizing dyes. 3,483,195, 12-9-69, Cl. 260-240.4

Jeffreys, Roy A.; and Williams, Leslie A., to Eastman Kodak Company. Method of inhibiting discoloration of color photographs. 3,473,929, 10-21-69, Cl. 96-56.

Jeffreys, Roy A.: *See*—
Holstead, Colin; Bailey, Joseph; and Jeffreys, Roy A.,3,455,687.

Jeffries, Dan W., 1/2 to Nash, Harold W. Compensating disk brake with active and passive caliper configuration having inboard caliper retriever and independent torque resolving members. 3,443,669, 5-13-69, Cl. 188-70.

Jeffries, James E., to S & C Electric Company. Switchgear with panels overlying access openings interlocked with grounding switches by means of J-shaped latches. 3,459,905, 8-5-69, Cl. 200-50.

Jeffries, Philip Waterman, to Matthew Harvey & Company Limited. Head and jaw releasable fastenings. 3,453,013, 7-1-69, Cl. 292-18.

Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli, to Ciba Corporation. Process for the manufacture of B-nor-or B-nor-19- norandrostanes. 3,428,537, 2-18-69, Cl. 204-158.

Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli, to Ciba Corporation. 4α,10α; 2β,1'-Bicyclo-5β-methyl-19 norsteroids and their preparation. 3,478,068, 11-11-69, Cl. 260-397.4

Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli, to Ciba Corporation. Oestratrienes and process for their manufacture. 3,483,235, 12-9-69, Cl. 260-397.4

Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt, to Ciba Corporation. 1-Hydroxymethyl-3-oxo-2-oxa-steroids. 3,454,599, 7-8-69, Cl. 260-343.2

Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt, to Ciba Corporation. 4-Oxa-5-hydroxymethyl-steroids. 3,484,456, 12-16-69, Cl. 260-343.2

Jeglum, Paul M.: *See*—
Real, Mackey J., Jr.; Jeglum, Paul M.; and Bright, Boris E.,3,429,175.

Jehenson, Pierre Simon; and Bauwens, Jean, to European Atomic Energy Community (Euratom). Ductility of dispersed phase alloys, particularly Al-Al_2O_3. 3,476,614, 11-4-69, Cl. 148-11.5

Jehle, Fritz: *See*—
Wenz, Herbert; and Jehle, Fritz,3,455,259.

Jehn, David H.: *See*—
Maier, Gary W.; and Jehn, David H.,3,445,988.

Jehn, Gustav. Traction tread. 3,450,445, 6-17-69, Cl. 305-39.

Jehn, Werner F. Oral controlled pressure regulator for blowing glass. 3,429,683, 2-25-69, Cl. 65-301.

Jehn, Werner F. Dual differential control valve. 3,438,396, 4-15-69, Cl. 137-596.18

Jelatis, Demetrius G.; Haaker, Lester W.; and Eisert, Gerald A., to Central Research Laboratories, Inc. Annular shielding for master-slave manipulators. 3,474,250, 10-21-69, Cl. 250-108.

Jelatis, Demetrius G.: *See*—
Jennrich, Carleton E.; Haaker, Lester W.; and Jelatis, Demetrius G.,3,429,457.

Jelenko, J. F., & Co., Inc.: *See*—
Nielsen, John P.; and Tuccillo, Joseph J., 3,424,577.
Schulz, John F.; and Tuccillo, Joseph J., 3,458,936.

Jelinek, Arthur G., du Pont de Nemours, E. I., and Company. Treatment of depression of the central nervous system with alkyl esters of 1-aziridinepropionic acid. 3,426,129, 2-4-69, Cl. 424-244.

Jelinek, Arthur G., to Du Pont de Nemours, E. I., and Company. Esters of 1-aziridinepropionic acid, as tranquilizers. 3,457,349, 7-22-69, Cl. 424-244.

Jelinek, Jerry G.; and Dial, Harrell M., to Parker-Hannifin Corporation. Gasket and joint for cylinder heads. 3,448,986, 6-10-69, Cl. 277-180.

Jelinek, Jerry G.: *See*—
Kutas, Albert F.; Allen, James Terry; and Jelinek, Jerry G.,3,485,142.

Jelinek, Otto C., to Federal Products Corporation. Bezel clamp for an indicator. 3,437,071, 4-8-69, Cl. 116-129.

Jellesma, Anne, to Hubert, W., & Co. Machinefabriek N.V. Archimedean screw pump. 3,464,360, 9-2-69, Cl. 103-89.

Jelley, Robert J.: *See*—
Carter, Ivor John; and Jelley, Robert J.,3,474,669.

Jellinek, Karl; and Post, Udo, to Rutgerswerke und Teerverwertung Aktiengesellschaft. Process for preparing synthetic resins from polyglycidyl ethers of cycloaliphatic polyhydroxyl compounds with hardening agents. 3,425,961, 2-4-69, Cl. 260-2.

Jellis, James C., Jr., to Modern-Way, Inc. Pick-up apparatus. 3,438,184, 4-15-69, Cl. 56-119.

Jemison, Volney M., to Minijector Corporation. Variable stroke plunger pump. 3,486,455, 12-30-69, Cl. 103-38.

Jemison, William: *See*—
Klumpp, Ferdinand, Jr.; and Jemison, William,3,464,659.

Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel, to American Home Products Corporation. 3-Alkanoyl-7-alkyl-5-hydroxycoumarins. 3,462,459, 8-19-69, Cl. 260-343.2

Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel, to American Home Products Corporation. 5-Hydroxy-2,2,7-trialkylchroman-4-ones and derivatives. 3,467,676, 9-16-69, Cl. 260-345.2

Jenaer Glaswerk Schott & Gen.: *See*—
Detemple, Manfred, 3,445,368.
Detemple, Manfred, 3,463,718.
Dislich, Helmut; and Jacobsen, Alfred, 3,480,458.
Jacobsen, Alfred, 3,449,036.
Jahn, Walter, 3,455,707.
Neuroth, Norbert; and Warnach, Klaus, 3,465,074.
Vinz, Ottmar, 3,426,256.

Jenca, Cecelia C.: *See*—
Plantz, Charles A.; Jenca, Cecelia C.; and McConnaughey, Paul W.,3,482,944.

Jendrisak, Joseph E.: *See*—
McKelvey, Harold E.; and Jendrisak, Joseph E.,3,424,836.

Jendrychowska-Bonamour, Anna-Maria: *See*—
Chapiro, Adolphe; and Jendrychowska-Bonamour, Anna-Maria,3,433,724.

Jenkin, William C.: *See*—
Whitacre, John R.; and Jenkin, William C.,3,466,229.

Jenkins, Alexander; and Weber, Eugen, to Wright, H. Dudley, and Leclerc, Robert Ernest. Method of forming articles from thermoelastically deformable materials. 3,433,862, 3-18-69, Cl. 264-97.

Jenkins, Anthony, to Pye, W. G., & Co., Ltd. Liquid injection device. 3,475,964, 11-4-69, Cl. 73-422.

Jenkins, Bernard M.: *See*—
Brucker, Henry J.; and Jenkins, Bernard M.,3,428,209.

Jenkins, Carlton Gene; Stoldt, Clayton Lewis; and Szeverenyi, Nikolaus A., to Sylvania Electric Products Inc. Cartridge lock and release mechanism. 3,481,607, 12-2-69, Cl. 274-4.

Jenkins, Cecil; and Woolslayer, Joseph R., to Moore, Lee C., Corporation. Slant hole well drilling apparatus. 3,443,646, 5-13-69, Cl. 175-85.

Jenkins, Cecil: *See*—
Oltermann, John J.; Woolslayer, Joseph R.; and Jenkins, Cecil,3,435,571.

Jenkins, Charles S., to International Business Machines Corporation. Combination paper and developer supply. 3,431,050, 3-4-69, Cl. 355-10.

Jenkins, David M.: *See*—
Heilman, William J.; and Jenkins, David M.,3,461,108.

Jenkins, Donald Glyn; and Parikh, Anil Chandrakant, to British Nylon Spinners Limited. Bulked yarn. 3,473,316, 10-21-69, Cl. 57-140.

Jenkins, Donald Glyn; and Parikh, Anil Chandrakant, to British Nylon Spinners Limited. Drawing and bulking of synthetic polymer. 3,474,612, 10-28-69, Cl. 57-34.
Jenkins, Edwin E., to Whittaker Corporation, mesne. Strain gage transducer. 3,473,375, 10-21-69, Cl. 73-141.
Jenkins, Eli S.: *See*—
Etter, Berwyn E., 3,425,247.
Jenkins Equipment Company, Inc.: *See*—
Cook, Robert E., 3,442,555.
Jenkins, Fred W.: *See*—
Dickson, Woodrow J.; and Jenkins, Fred W.,3,425,549.
Dickson, Woodrow J.; and Jenkins, Fred W.,3,454,380.
Jenkins, Gerald L.: *See*—
Rederer, Carl G.; and Jenkins, Gerald L.,3,441,339.
Jenkins, Henry H. Electric arc type cutting gun. 3,483,348, 12-9-69, Cl. 219-70.
Jenkins, Herndon, to Robins, A. H., Company, Incorporated. Heterocyclic substituted acetic acid derivatives, intermediates therefor, and production and use thereof. 3,470,189, 9-30-69, Cl. 260-294.
Jenkins, Jack J.: *See*—
Fillmore, Leland A.; and Jenkins, Jack J.,3,477,256.
Jenkins, James L., to United States of America, Navy, mesne. Correlator for two-level quantized digital signals. 3,462,590, 8-19-69, Cl. 235-181.
Jenkins, John W., to Shell Oil Company. Dehydrocyclization of paraffins. 3,449,461, 6-10-69, Cl. 260-673.5
Jenkins, Merrill: *See*—
Welhoelter, Milton; and Jenkins, Merrill,3,461,719.
Welhoelter, Milton; and Jenkins, Merrill,3,470,732.
Jenkins, Owen E. Container including anti-friction support means. 3,427,040, 2-11-69, Cl. 280-36.
Jenkins, Philip Winder; and Brooker, Leslie G. S., to Eastman Kodak Company. Imidazo [4,5-b] quinolinium salts and cyanine, merocyanine and styryl photographic sensitizing dyes derived therefrom. 3,483,196, 12-9-69, Cl. 260-240.4
Jenkins, Richard G.: *See*—
Bascom, Hollis H.; Greci, John J.; and Jenkins, Richard G.,3,463,693.
Jenkins, Roy M., to Lindy Pen Company, Incorporated. Fountain pen. 3,424,539, 1-28-69, Cl. 401-292.
Jenkins, Roy M., to Lindy Pen Company Incorporated. Holding clip for pocket instrument. 3,466,708, 9-16-69, Cl. 24-11.
Jenkins, Stuart Mc Ewen: *See*—
Hutchison, Ronald Thomas James; and Jenkins, Stuart Mc Ewen,3,433,912.
Jenkins, Thomas E.: *See*—
Cushing, Donald S.; and Jenkins, Thomas E.,3,434,671.
Jenkins, Thomas E., to General Electric Company. Motor-pump support means and method of assembly. 3,425,651, 2-4-69, Cl. 248-18.
Jenkins, W. L., Company, The: *See*—
Jenkins, Wendell L., 3,424,124.
Jenkins, Wendell L., to Jenkins, W. L., Company, The. Bell gong shell mounting construction. 3,424,124, 1-28-69, Cl. 116-152.
Jenkins, William B., to Reynolds Metals Company. Apparatus for joining metal products. 3,421,676, 1-14-69, Cl. 228-13.
Jenkins, William B., to Reynolds Metals Company. Apparatus for joining metal products. 3,421,677, 1-14-69, Cl. 228-19.
Jenkinson, Doris Audrey: *See*—
Carr-Brion, Kenneth Garfield; and Jenkinson, Doris Audrey,3,443,092.
Jenkinson, Jeremy Mark; and Rayner, Christopher Stephen, to Lucas, Joseph, (Industries) Limited. Rear suspension systems for road vehicles. 3,468,555, 9-23-69, Cl. 280-6.
Jenkinson, Mervyn Basil Leigh. Sheep shearing handpiece with reciprocating pneumatic motor. 3,467,204, 9-16-69, Cl. 173-169.
Jenkinson, Robert Arthur, to Lucas, Joseph, (Industries) Limited. Laminated stators for dynamo electric machines. 3,469,136, 9-23-69, Cl. 310-216.
Jenkne, Herbert, to Anstalt fur Montage-Technik. Process for making flame-protection components for plastic materials and containing phosphorus and halogen. 3,449,475, 6-10-69, Cl. 260-967.
Jenkner, Herbert: *See*—
Praetzel, Hans Eberhard; and Jenkner, Herbert,3,468,983.
Praetzel, Hans Eberhard; and Jenkner, Herbert,3,474,067.
Praetzel, Hans Eberhard; and Jenkner, Herbert,3,487,030.
Praetzel, Hans Eberhard; Wirth, Ernst-Friedrich; and Jenkner, Herbert,3,470,116.
Jenkner, Herbert, to Chemische Fabrik Kalk G.m.b.H. Self-extinguishing composition comprising polystyrene and an organic bromine compound. 3,455,873, 7-15-69, Cl. 260-45.7
Jenkner, Herbert, to Chemische Fabrik Kalk, G.m.b.H. Production of meso 2,3-dibromosuccinic acid. 3,465,037, 9-2-69, Cl. 260-537.
Jenkner, Herbert, to Chemische Fabrik Kalk G.m.b.H. Process of producing mono- or dialkyl phosphites or mixtures thereof. 3,476,839, 11-4-69, Cl. 260-979.
Jenkner, Herbert, to Chemische Fabrik Kalk GmbH. Phosphonic acid dialkyl ester containing diols. 3,485,897, 12-23-69, Cl. 260-932.
Jenkner, Kurt W.: *See*—
Greenly, Robert B.; Jenkner, Kurt W.; and Kittredge, Raymond E.,3,473,451.
Jenks, John D., to Ford Motor Company. Controlled switch flasher. 3,447,031, 5-27-69, Cl. 315-209.
Jenn, Louis J., to Jenn-Air Corporation. Capsule for use in a stove. 3,474,724, 10-28-69, Cl. 99-259.
Jenn, Louis J., to Jenn-Air Corporation. System for comfort conditioning structures. 3,482,503, 12-9-69, Cl. 98-33.
Jenn-Air Corporation: *See*—
Happel, Hermann E.; and Mitter, Laurence J., 3,444,805.
Jenn, Louis J., 3,474,724.
Jenn, Louis J., 3,482,503.
Painter, Phillip, 3,456,573.
Painter, Phillip, 3,469,519.
Jennat Corporation: *See*—
Lasher, Nathan; and Lasher, Richard W., 3,449,282.
Jenner, Edward L., to Du Pont de Nemours, E. I., and Company. Preparation of halohydrins by thermal rearrangement of alkyl hypohalites. 3,481,992, 12-2-69, Cl. 260-633.
Jenner, Harold; and Madley, Jack R., to Udec Limited. Ejector apparatus for article feedlines. 3,421,616, 1-14-69, Cl. 209-74.
Jenner, Pierre; Sayous, Leon; and Larrieu, Remi, to Societe Nationale des Petroles d'Aquitaine. Process for the production of machine-made waves and apparatus for practicing this process. 3,429,396, 2-25-69, Cl. 181-0.5
Jenner, Robert Kempton: *See*—
Dolan, Bernard Joseph; and Jenner, Robert Kempton,3,431,410.
Jenness, Raymond C.: *See*—
Freshwater, Donley D.; and Jenness, Raymond C.,3,429,624.
Jenney, Gavin D., to Bell Aerospace Corporation. Triple channel redundant hydraeric control system. 3,426,650, 2-11-69, Cl. 91-216.
Jenney, Gavin D., to Bell Aerospace Corporation. Electrical signal and monitoring apparatus for redundant control system. 3,437,312, 4-8-69, Cl. 253-1.
Jenney, Gavin D., to Bell Aerospace Corporation. Hydraulic position monitoring apparatus. 3,447,555, 6-3-69, Cl. 137-82.
Jenney, Gavin D., to Bell Aerospace Corporation. Hydraeric position monitoring apparatus with feedback. 3,455,318, 7-15-69, Cl. 137-85.
Jenney, Sherman R.: *See*—
Landry, Robert G.; and Jenney, Sherman R.,3,465,690.
Jennie, Fred L.: *See*—
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L.,3,420,561.
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L.,3,467,429.
Jennings, Alan K.; Cone, Ronald D.; and Seid, Eugene, to California Computer Products, Inc. System for providing clock pulses at varying rates in dependence upon data pulses. 3,427,556, 2-11-69, Cl. 328-63.
Jennings, Charles E., Jr., to Renner Company, The. Asphalt paver. 3,482,494, 12-9-69, Cl. 94-46.
Jennings, Clifton C.; and Lankford, William L., Jr., to Geolograph Company, The. Apparatus for determining differences in elevation. 3,431,780, 3-11-69, Cl. 73-316.
Jennings, David C., to United Aircraft Corporation. Supercritical stored mass sensor. 3,451,257, 6-24-69, Cl. 73-32.
Jennings, David C., to United Aircraft Corporation. Life support system for manned space vehicles. 3,457,040, 7-22-69, Cl. 23-204.
Jennings, Erwin R.: *See*—
Addison, Benjamin A.; Jennings, Erwin R.; and Gewecke, Theodore H.,3,467,086.
Jennings, Gerald P., to Phillips Petroleum Company. Sealing means for valves. 3,475,004, 10-28-69, Cl. 251-175.
Jennings, Harley Y., Jr.; and Schoettle, Volkmar, to Chevron Research Company. Apparatus for measuring interfacial tension. 3,483,737, 12-16-69, Cl. 73-64.4
Jennings, Jack W.; and Moore, George A. Pressure release valve. 3,421,546, 1-14-69, Cl. 137-523.
Jennings, James W.: *See*—
Harris, Martin H.; Smith Francis M.; and Jennings, James W.,3,447,607.
Jennings, John L., to United Aircraft Corporation. Gas boundary layer variable area orifice. 3,463,404, 8-26-69, Cl. 239-418.
Jennings, Lyston C.; and Spooner, Howard C., to General Signal Corporation. Controls for overcenter motor-pump unit. 3,431,857, 3-11-69, Cl. 103-10.
Jennings, Marvin D.; and Lech, Richard J., to International Harvester Company. Power steering with directional admittance and poppets. 3,438,200, 4-15-69, Cl. 60-52.
Jennings Radio Manufacturing Corporation: *See*—
Camacho, Julian, 3,446,926.
Deal, Roger L.; and Hansen, Robert W., 3,447,107.
Hansen, Robert W., 3,426,168.
Jennings, Thomas C., to Lubrizol Corporation, The. Phosphorous- and metal-containing composition and preparations thereof. 3,470,222, 9-30-69, Cl. 260-429.9

Jennrich, Carleton E.; and Haaker, Lester W., to Central Research Laboratories, Inc. Labyrinth shielding for master-slave manipulator. 3,482,100, 12-2-69, Cl. 250-108.
Jennrich, Carleton E.; Haaker, Lester W.; and Jelatis, Demetrius G., to Central Research Laboratories, Inc. Master pivot rocker assembly. 3,429,457, 2-25-69, Cl. 214-1.
Jenny, Alfred L., to United States of America, Navy. Tantalum purification means. 3,461,047, 8-12-69, Cl. 204-37.
Jenny, Ernst; and Dzung, Lang Shuen, to Aktiengesellschaft Brown Boveri & Cie. Magnetohydrodynamic machine. 3,479,537, 11-18-69, Cl. 310-11.
Jenny, Georges. Electronic musical instrument with air flow volumn control. 3,483,304, 12-9-69, Cl. 84-1.18
Jenny, Jacques; Teti, John; and Anderson, Jack P. Hoof-covering and method of its manufacture. 3,476,190, 11-4-69, Cl. 168-4.
Jensen, Alan K., to Litton Business Systems, Inc. Variable threshold playback amplifier. 3,483,542, 12-9-69, Cl. 340-174.1
Jensen, Alfred C. Snap-in appliance mounting. 3,423,770, 1-28-69, Cl. 4-187.
Jensen, Arne, to Danfoss A/S. Switching circuits using solid state switches. 3,423,605, 1-21-69, Cl. 307-300.
Jensen, Arne, to Danfoss A/S. Pulse controlled switch having solid state switching elements isolated from transient voltages. 3,435,255, 3-25-69, Cl. 307-258.
Jensen, Arne, to Danfoss A/S. Simultaneous vapor plating of plural substances. 3,445,271, 5-20-69, Cl. 117-106.
Jensen, Arne, to Danfoss A/S. Positive-acting lower power thermally-responsive bimetallic switch. 3,447,113, 5-27-69, Cl. 337-1.
Jensen, Arthur S., to Westinghouse Electric Corporation. Apparatus for performing image correlation. 3,448,281, 6-3-69, Cl. 250-220.
Jensen, Arvid E., to Ford Motor Company. Process for assembling an electrical storage battery. 3,468,720, 9-23-69, Cl. 136-176.
Jensen, Borge: *See*—
Jensen, Jens N.; and Jensen, Borge,3,473,517.
Jensen, Charles C.; and Doody, Frank X., to Darling & Company. Process of producing a granular feed. 3,464,824, 9-2-69, Cl. 99-2.
Jensen, Darwin P., to McDonnell Douglas Corporation. Plating of non-metallic bodies. 3,423,226, 1-21-69, Cl. 117-47.
Jensen, Darwin P., to McDonnell Douglas Corporation. Plating of substrates. 3,437,507, 4-8-69, Cl. 117-47.
Jensen, Donald F., to International Business Machines Corporation. Diaphragm type fluid logic latch. 3,433,257, 3-18-69, Cl. 137-561.
Jensen, Donald F.; and Muller, Hans R., to International Business Machines Corporation. Fluid-controlled document transport drum. 3,466,029, 9-9-69, Cl. 271-51.
Jensen, Donald F.: *See*—
Jackowski, Charles S.; Jensen, Donald F.; Muller, Hans R.; Noll, Melvin R.; and Schaffer, Robert R.,3,466,610.
Jensen, Doyne A. Hay bale loader and stacker attachment. 3,420,564, 1-7-69, Cl. 294-67.
Jensen, Ejnar, & Son I/S: *See*—
Jacobsen, Ulf J., 3,474,252.
Jensen, Elmer Raymond: *See*—
McCormick, Jerry Robert Daniel; Joachim, Ursula; Jensen, Elmer Raymond; and Sjolander, Newell Oscar,3,431,303.
Jensen, Elmer W., to Geoscience Instruments Corporation. Method and apparatus for mouging thin elements. 3,449,870, 6-17-69, Cl. 51-216.
Jensen, Erik H., to Upjohn Company, The. Water reconstitutable kaolin-pectin powders. 3,449,492, 6-10-69, Cl. 424-154.
Jensen, Erik H.: *See*—
Kyle, William K.; and Jensen, Erik H.,3,444,923.
Jensen, Floyd J. Muffler for downspouts and muffled downspout. 3,426,866, 2-11-69, Cl. 181-33.
Jensen, Fred H. Spiral element rotary-sensing mechanism. 3,483,391, 12-9-69, Cl. 250-231.
Jensen, George W.: *See*—
Yanko, Richard J.; Penrod, John K.; and Jensen, George W.,3,449,540.
Jensen, Gerald A., to Avco Corporation. Spray coating. 3,440,079, 4-22-69, Cl. 117-22.
Jensen, Hans A., to Mayer, Oscar, & Co., Inc. Folding device. 3,465,492, 9-9-69, Cl. 53-120.
Jensen, Hans A.; and Eberman, Augustus H., to Mayer, Oscar & Co., Inc. Package trimmer for continuous package forming apparatus. 3,424,042, 1-28-69, Cl. 83-108.
Jensen, Hans A.; and Eberman, Augustus H., to Mayer, Oscar, & Co., Inc. Product loading conveyor for continuous package forming machine. 3,467,240, 9-16-69, Cl. 198-179.
Jensen, Hans A.; and Eberman, Augustus H., to Mayer, Oscar, & Co., Inc. Package banding machine. 3,479,792, 11-25-69, Cl. 53-62.
Jensen, Hans A.; and Merdler, Myron J., to Mayer, Oscar, & Co., Inc. Packaging machine. 3,478,488, 11-18-69, Cl. 53-112.
Jensen, Hans H.: *See*—
Bradshaw, Robert D.; and Jensen, Hans H.,3,423,528.
Jensen, Hans, to Gits Bros. Mfg. Co. Oil hole cover. 3,420,585, 1-7-69, Cl. 308-44.
Jensen, Harald K. Music teaching apparatus. 3,460,426, 8-12-69, Cl. 84-478.
Jensen, Harold A.: *See*—
Ing, Samuel W., Jr.; and Jensen, Harold A.,3,443,140.
Ing, Samuel W., Jr.; Jensen, Harold A.; and Stern, Barry J.,3,443,166.
Jensen, Harold S.: *See*—
Weinstein, Bernard; Terry, Daniel H.; and Jensen, Harold S.,3,429,821.
Jensen, Hermann Borge Funck. Methods for laying out automation. 3,457,549, 7-22-69, Cl. 340-147.
Jensen, Howard J.: *See*—
Waugh, Dale L.; Brooks, Alden W.; Jensen, Howard J.; and Richmond, Kenneth D.,3,478,613.
Jensen Industries, Incorporated: *See*—
Spring, Claude L., 3,432,843.
Jensen, James Lee, to Honeywell Inc. Amplifier having series regulated voltage supply. 3,426,290, 2-4-69, Cl. 330-40.
Jensen, James Lee, to Honeywell Inc. Current driven voltage multiplication circuit. 3,432,738, 3-11-69, Cl. 321-15.
Jensen, Jens N.; and Jensen, Borge. Drinking device for domestic animals. 3,473,517, 10-21-69, Cl. 119-72.5
Jensen, John L. Fire and smoke alarm device. 3,447,152, 5-27-69, Cl. 340-420.
Jensen, Karl Greve; and Larsson, John E. Pneumatic clamping device. 3,460,398, 8-12-69, Cl. 74-110.
Jensen, Kurt: *See*—
Becker, Helmut; Jensen, Kurt; Leitz, Ernst; and Rinker, Walter,3,484,149.
Jensen, Leland P. Fluid blending apparatus. 3,479,015, 11-18-69, Cl. 259-110.
Jensen, Lloyd I., to Schlumberger Technology Corporation, mesne. Methods for drill stem testing. 3,427,653, 2-11-69, Cl. 166-264.
Jensen, Niels Due, to Grundfos A/S. Centrifugal pump. 3,440,968, 4-29-69, Cl. 103-108.
Jensen, Niels Due, to Grundfos A/S. Coupling element for connection between a centrifugal pump and its drive motor. 3,487,432, 12-30-69, Cl. 103-111.
Jensen, Niels H.; and Cardwell, Gilbert P., to Lukens Steel Company. Gaging machine. 3,471,933, 10-14-69, Cl. 33-147.
Jensen, Niels H.; and Smith, Hubert C., to Lukens Steel Company. Apparatus for casting slab type ingots. 3,433,286, 3-18-69, Cl. 164-274.
Jensen, Niels H.; and Smith, Hubert C., to Lukens Steel Company. Process for casting slab type ingots. 3,465,809, 9-9-69, Cl. 164-82.
Jensen, Oluf Fred. Power brakes for automotive vehicles. 3,434,394, 3-25-69, Cl. 91-470.
Jensen, Otto, to I-T-E Circuit Breaker Company. Differential pressure actuated switch with high speed latch means. 3,433,911, 3-18-69, Cl. 200-83.
Jensen, Otto, to I-T-E Circuit Breaker Company. Protective arrangement for series capacitor bank. 3,452,251, 6-24-69, Cl. 317-12.
Jensen, Paul A.; and Mann, William C., to Westinghouse Electric Corporation. Redundant signal transmission system. 3,451,042, 6-17-69, Cl. 340-147.
Jensen, Poul: *See*—
Faaborg-Andersen, Axel Valdemar; and Jensen, Poul,3,433,598.
Jensen, Raymond W., to Comdata Corporation. Reel container. 3,454,153, 7-8-69, Cl. 206-52.
Jensen, Richard C., to General Electric Company. Moving-target-responsive radar system. 3,422,428, 1-14-69, Cl. 343-7.
Jensen, Richard H.; and Nordstrom, Arnold B., to Tridair Industries, mesne. Quick change system. 3,480,239, 11-25-69, Cl. 244-118.
Jensen, Robert P. Safety closure for medicine bottle and the like. 3,426,931, 2-11-69, Cl. 215-9.
Jensen, Roy A., to International Business Machines Corporation. Print evaluation and exposure control system. 3,464,062, 8-26-69, Cl. 340-146.3
Jensen, Roy A., to International Business Machines Corporation. Margin turnaround technique for photodigital reader. 3,473,164, 10-14-69, Cl. 340-173.
Jensen, Roy A.; and Oldham, Ira B., to International Business Machines Corporation. Photographic information storage optical tracking and switching system. 3,480,919, 11-25-69, Cl. 340-173.
Jensen, Roy Albert, to International Business Machines Corporation. Data tracking system. 3,474,418, 10-21-69, Cl. 340-173.
Jensen, Warren R.; and Orzechowski, Jack F., to Raybestos-Manhattan, Inc. Friction material. 3,462,387, 8-19-69, Cl. 260-38.
Jensen, William G., to Ford Motor Company. Adjustable frequency horn. 3,477,405, 11-11-69, Cl. 116-137.
Jensen, William Paul, to Susquehanna Corporation, The. Catalytic reactor. 3,451,782, 6-24-69, Cl. 23-281.
Jensen, William Paul; and Lazerus, Stanley, to Susquehanna Corporation, The. Purification of fluids by selective adsorption of an impure side stream from a distillation with adsorber regeneration. 3,421,984, 1-14-69, Cl. 203-41.
Jensen, William S.: *See*—
Tierney, Donald R., 3,461,479.
Jentoft, Arthur Philip, to Robertson, H. H., Company. Extensible plug valve. 3,432,139, 3-11-69, Cl. 251-61.1
Jentsch, Thomas F. Combination template, work support and guide for router. 3,442,309, 5-6-69, Cl. 144-144.

Jentz, Norman E.: *See—*
Beavon, David K.; and Jentz, Norman E.,3,444,075.

Jentzsch, Dietrich; and Hovermann, Werner, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Qualitative analysis of fluid mixtures. 3,486,304, 12-30-69, Cl. 55-197.

Jentzsch, Dietrich; and Kuhne, Klaus, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Flame ionization detector. 3,455,657, 7-15-69, Cl. 23-254.

Jentzsch, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,4-diaminoanthraquinone. 3,433,811, 3-18-69, Cl. 260-378.

Jeong, David H., to Hewlett-Packard Company. TEM mode directional coupler having dielectric compensating means. 3,478,281, 11-11-69, Cl. 333-10.

Jephcott, John A., to Longworth Scientific Instrument Company Limited. Disposable cover for laryngoscope blade. 3,426,749, 2-11-69, Cl. 128-11.

Jephson, John Edward, to Sterling Engineering Company Limited, The. Cartridge-operated tools. 3,473,719, 10-21-69, Cl. 227-11.

Jeppson, Morris R., to Cryodry Corporation. Method and apparatus for reducing desiccation effects in the microwave processing of unsealed food products. 3,427,171, 2-11-69, Cl. 99-221.

Jeppson, Morris R., to Cryodry Corporation. Aseptic canning of foods having solid or semi- solid components. 3,437,495, 4-8-69, Cl. 99-182.

Jeppson, Morris R., to Cryodry Corporation. Apparatus for treating food products and the like with microwave energy. 3,478,900, 11-18-69, Cl. 219-10.55

Jeppsson, Allan, to Aktiebolaget Svenska Flaktfabriken. Manufacturing tubular duct sections. 3,422,525, 1-21-69, Cl. 29-429.

Jepsen, Donald W.: *See—*
Ainslie, Norman G.; Chhabra, Devendra S.; Jepsen, Donald W.; and Mutter, Walter E.,3,474,530.

Jepsen, Robert E., to Air Products and Chemicals, Inc. Piston rings. 3,455,565, 7-15-69, Cl. 277-138.

Jepson, Ivar; Dokos, Sophocles J.; and Bielak, Sigmund H., to Sunbeam Corporation. Can opener. 3,477,263, 11-11-69, Cl. 72-71.

Jepson, Ivar; and Ernstberger, Alfred F., to Sunbeam Corporation. Floor conditioning. 3,451,087, 6-24-69, Cl. 15-49.

Jepson, Ivar; Morgan, John W.; and Richmond, James W., to Sunbeam Corporation. Clock movement mounting means. 3,429,118, 2-25-69, Cl. 58-52.

Jepson, James O.: *See—*
Ramsey, William J.; Jepson, James O.; and Wood, David H.,3,442,642.

Jerchel, Dietrich: *See—*
Schroder, Ludwig; Thomas, Klaus; and Jerchel, Dietrich,3,461,132.

Jeremias, Helmuth M.: *See—*
Tronnier, Albrecht W.; Jeremias, Helmuth M.; and Gottesman, Arthur H.,3,479,117.

Jergens Tool Specialty Co.: *See—*
Mayhew, Norman H., 3,473,328.

Jerila, Torsti T. T.; and Holmes, Frank A., to Ajax Hardware Manufacturing Corp. Closing device for doors. 3,452,387, 7-1-69, Cl. 16-72.

Jermyn, Arthur C. Die pin setter. 3,436,829, 4-8-69, Cl. 32-40.

Jernakoff, George, to General Electric Company. Digital-analog multiplier. 3,484,589, 12-16-69, Cl. 235-150.52

Jernigan, Jack W., to Dow Chemical Company, The. Thickened thermosetting vinyl ester resins. 3,466,259, 9-9-69, Cl. 260-37.

Jernigan, James L., to United States of America, Navy. Bragg angle matched filter for producing and recognizing coded pulses. 3,483,386, 12-9-69, Cl. 250-216.

Jernigan, Thomas L., to Eskimo Pie Corporation. Carton folding machine. 3,426,506, 2-11-69, Cl. 53-186.

Jernigan, Thomas L., to Eskimo Pie Corporation. Conveyer. 3,447,668, 6-3-69, Cl. 198-195.

Jernstrom, Hans E.: *See—*
Glass, Marvin I.; Disko, Harry; and Jernstrom, Hans E.,3,460,831.

Jernstrom, Hans, to Glass, Marvin, & Associates. Chance controlled construction game apparatus. 3,452,989, 7-1-69, Cl. 273-135.

Jernstrom, Hans; and Glass, Marvin I., to Glass, Marvin, & Associates. Game. 3,480,275, 11-25-69, Cl. 273-1.

Jernstrom, Karl W. Compactor. 3,460,463, 8-12-69, Cl. 100-52.

Jernt, Fred M.: *See—*
Waterhouse, Bruce L.; Jernt, Fred M.; and Mallory, Edwin E.,3,468,253.

Jerolamon, David: *See—*
Fuhrmann, Robert; Sifniades, Stylianos; and Jerolamon, David,3,458,419.

Jerome, George A., to Dow Corning Corporation. Manufacture of silicon carbide ribbons. 3,445,554, 5-20-69, Cl. 264-56.

Jerome, George A.: *See—*
Kern, Edward L.; and Jerome, George A.,3,455,745.

Jerome, Jack. Electrical cable connection and connector sleeve. 3,479,445, 11-18-69, Cl. 174-94.

Jerome, Maurice William, to Wright Rain Limited. Valve responsive to a pulsating fluid pressure. 3,480,034, 11-25-69, Cl. 137-119.

Jerome, Wallace H. Poultry loading device. 3,476,089, 11-4-69, Cl. 119-82.

Jeromsom, James R., Jr.: *See—*
Courtot, Louis B.; Jeromsom, James R., Jr.; and Morse, Philip W.,3,463,517.

Jerrold Electronics Corporation: *See—*
Brooks, George M., 3,484,733.
Nardontonia, John A., 3,479,592.
Simons, Keneth A., 3,437,948.
Simons, Keneth A., 3,440,571.
Winston, Eric, 3,440,329.
Winston, Eric, 3,462,539.
Winston, Eric; and Mazerka, John T., 3,468,577.
Winston, Eric; and Qurashi, Maqbool, 3,479,633.
Winston, Eric; and Qurashi, Maqbool, 3,487,267.

Jerue, Richard A., to De Vlieg Machine Company. Tool loading device for machine tools. 3,449,823, 6-17-69, Cl. 29-568.

Jerushalmi, Shmuel; and Barr, Itzhak Michael, to Yeda Research and Development Co., Ltd. Pacemaking device-electrode catheterad method. 3,437,091, 4-8-69, Cl. 128-404.

Jerussi, Robert A.; and McCormick, Michael R., to General Electric Company. Phenyl-capped polyphenylene ethers. 3,424,722, 1-28-69, Cl. 260-47.

Jervan, Oivind, to Dornier G.m.b.H. Retractable landing gear. 3,485,464, 12-23-69, Cl. 244-102.

Jervis Corporation: *See—*
McIntyre, Matthew; Goodfellow, Harry Edwin; and Jaffe, Herbert Roy, 3,468,186.

Jerzykiewicz, Jerzy: *See—*
Krzewinski, Zbigniew; Franciszczak, Eugeniusz; Jerzykiewicz, Jerzy; and Kostrzewski, Janusz,3,464,635.

Jeschke, Richard R.: *See—*
MacPhee, Paul A.; Wanielista, Walter; and Jeschke, Richard R.,3,433,567.
Tonkin, Kenneth J.; Swanson, John L.; and Jeschke, Richard R.,3,431,841.

Jeske, Carl-Heinz, to Sud-Atlas-Werke GmbH. Automatic lockout party line telephone system. 3,467,784, 9-16-69, Cl. 179-17.

Jespersen, Hans Jorgen, to Danfoss A/S. Valve structure with seat insert centered by centering surfaces. 3,454,035, 7-8-69, Cl. 137-315.

Jespersen, Paul W., to Georgia-Pacific Corporation. Dispenser for rolls of flexible sheet material. 3,437,388, 4-8-69, Cl. 312-39.

Jespersen, Paul W., to Georgia-Pacific Corporation. Flexible sheet material rolls having internal supporting means adapted to fall out of a dispenser automatically. 3,438,589, 4-15-69, Cl. 242-55.2

Jesperson, Leslie S., to Yakima Valley Equipment Co., Inc. Method of and apparatus for harvesting hop vines. 3,474,604, 10-28-69, Cl. 56-25.4

Jess, Thurman S.: *See—*
Bramhall, Otis H.; and Jess, Thurman S.,3,477,054.

Jessee, Joseph S., to Chrysler Corporation. Air conditioner cover assembly. 3,436,889, 4-8-69, Cl. 52-627.

Jessee, Joseph S., to Chrysler Corporation. Door operating mechanism. 3,471,970, 10-14-69, Cl. 49-68.

Jessen, Frank Weldon. Prevention of corrosion of metal pipes placed underground. 3,462,962, 8-26-69, Cl. 61-72.1

Jessen, Henry J.; Junck, John A.; and Rice, Roger A., to Caterpillar Tractor Company. Earthmoving scraper bowl suspension with safety features. 3,449,845, 6-17-69, Cl. 37-129.

Jessen, Jens: *See—*
Schreckenberg, Karl E.; and Jessen, Jens,3,475,708.

Jessop, Harvey A; and Udy, Lex L., to Intermountain Research and Engineering Company, Inc. Aqueous explosive slurry containing oxidizer- reducer cross-linking agent. 3,485,686, 12-23-69, Cl. 149-41.

Jester, Alfred: *See—*
Langpape, Reinhart; and Jester, Alfred,3,436,566.
Langpape, Reinhart; and Jester, Alfred,3,453,455.

Jester, Wilhelm: *See—*
Ottmuller, Gert; and Jester, Wilhelm,3,449,837.

Jet Automatic Car Wash Equipment Company, Inc.: *See—*
Suraci, Anthony J., 3,424,103.

Jet Avion Corporation: *See—*
Edlund, Oscar T.; and Wagner, Robert G., 3,420,136.
Langley, Roger D.; and Edlund, Oscar T., 3,439,790.

Jet Line Products, Inc.: *See—*
Hamrick, James C., 3,422,482.
Hamrick, James C., 3,468,334.

Jet Research Center, Inc.: *See—*
Christopher, Glenn B., 3,431,850.

Jet Stream Products, Inc.: *See—*
Glenn, John D.; Robbins, Owen G.; Schwemer, Warren C.; and Silverman, Joseph R., 3,431,753.

Jet-Clean Co.: *See—*
Zadron, Emil; and Kemonth, Alton S., 3,439,689.

Jet-X Corporation: *See—*
Proctor, Rudy R.; and Proctor, Denver L., 3,447,753.

Jetcut Corporation: *See—*
Schwartz, Howard E., 3,423,081.

Jetdraft, Inc.: *See—*
Dewey, William R.; and Locker, Howard W., 3,448,917.
Jeter, John D.; and Harris, Horace C., Jr., to Whipstock, Inc. Apparatus for controlling directional deviations of a well bore as it is being drilled. 3,424,256, 1-28-69, Cl. 175-76.
Jeter, Thomas R.; and Baldeschwieler, John D., to United States of America, Army. Method and means for obtaining steady state or microsecond energy spectra in a neutron spectrometer. 3,465,148, 9-2-69, Cl. 250-83.1
Jetru, Inc.: *See—*
Ratliff, Harvey L., Jr., 3,424,511.
Ratliff, Harvey L., Jr., 3,429,704.
Ratliff, Harvey L., Jr., 3,439,972.
Ratliff, Harvey L., Jr., 3,471,224.
Jeurissen, Lambert Gaston; and Conix, Andre Jan, to Gevaert-Agfa N.V. Preparation of highly polymeric polyesters in the presence of catalytic titanium compounds contain- ing ester groups. 3,444,139, 5-13-69, Cl. 260-75.
Jeurissen, Lambert Gaston; and Conix, Andre Jan, to Gevaert-Agfa N.V. Preparation of highly polymeric polyesters in the presence of organo-titanium catalysts. 3,453,241, 7-1-69, Cl. 260-75.
Jevbratt, Lars Torsten: *See—*
Holm, Sune Erik; and Jevbratt, Lars Torsten,3,443,503.
Jewell, David E.; and Givens, William R., to Gates Rubber Company, The. Hydraulic suspension unit. 3,480,269, 11-25-69, Cl. 267-64.
Jewell, Douglas M.; and Yevich, Joseph, to Gulf Research & Development Company. Process for removing sulfur, oxygen and nitrogen compounds from petroleum distillates. 3,446,729, 5-27-69, Cl. 208-236.
Jewell, George S., to Canadian Westinghouse Company Limited. Steerable drive which becomes disengaged upon removal from the drive surface. 3,423,590, 1-21-69, Cl. 250-202.
Jewell, George S.: *See—*
Simpson, Robert G.; Luker, Ronald J.; and Jewell, George S.,3,479,513.
Jewell, Rowan C., to Gramar Corporation. Sheet handling apparatus. 3,467,261, 9-16-69, Cl. 214-1.
Jewell, Wendell D.; Nevala, Lloyd A.; and Korn, Frederick, to American Bosch Arma Corporation. Accelerometers. 3,434,352, 3-25-69, Cl. 73-517.
Jewett, Barry K. Device for applying skid chains to tires. 3,479,910, 11-25-69, Cl. 81-15.8
Jewett, Warren R. Motor driven fluid administration apparatus. 3,456,649, 7-22-69, Cl. 128-214.
Jex, Victor B.; and Bailey, Donald L., to Union Carbide Corporation. Treatment of inorganic oxide materials with organosilicon compounds containing aminoalkyl groups and articles produced thereby. 3,455,725, 7-15-69, Cl. 117-72.
Jezewski, Mieczyslaw Stanislaw; Kawecki, Zygmunt Tadeusz; Szklarski,Ludger Miroslaw; Krawczyk, Eugeniusz Marian; and Ogorzalek, Jerzy Marian. Magnetic device for determining defects in rod-like elements, cables, steel pipes and the like. 3,424,976, 1-28-69, Cl. 324-37.
Jezl, James L.: *See—*
Khelghatian, Habet M.; Jezl, James L.; and Hague, Louise D.,3,442,978.
Jezl, James L., to Avisun Corporation. Primer for polyolefin surfaces. 3,441,434, 4-29-69, Cl. 117-138.8
Jezl, James L.; Khelghatian, Habet M.; and Hague, Louise D., to Avi Sun Corporation. Novel catalyst and olefin polymerization therewith. 3,441,551, 4-29-69, Cl. 260-93.7
Jezussek, Alfons: *See—*
Knodler, Diethelm; and Jezussek, Alfons,3,459,325.
JFD Electronics Co., Division of Stratford Retreat House: *See—*
Berman, Nelson, 3,421,058.
JFD Electronics Corporation: *See—*
Carnazza, Joseph, 3,469,158.
Carnazza, Joseph; and Weisbrod, Marvin, 3,469,159.
Grant, Ronald D.; and Mayes, Paul E., 3,454,950.
Mayes, Paul E.; and Grant, Ronald D., 3,466,655.
Jif-Chips Snak Foods, Inc.: *See—*
Staley, Melvin R., 3,427,953.
Jimenez, Ivan: *See—*
Rubin, Irving; and Jimenez, Ivan,3,463,430.
Jimenez, Luis A. Changeable sign construction. 3,458,944, 8-5-69, Cl. 40-28.
Jimenez, Raymond J.: *See—*
Baum, James R.; and Jimenez, Raymond J.,3,462,317.
Jimenez-Gomez, Segundo: *See—*
Vian-Ortuno, Angel; Jimenez-Gomez, Segundo; and Diez-Vilches, Antonio,3,453,072.
Jin, Minejiro; and Maruyama, Yugo, to Hitachi, Ltd. Guide shoes for elevators. 3,425,516, 2-4-69, Cl. 187-45.
Jindrich, Emil; and Bajer, Frantisek, to Elitex, Zavody textilniho strojirenstvi generalni reditelstvi. Device for automatically varying the stitch length in a zig-zag sewing machine. 3,426,709, 2-11-69, Cl. 112-73.
Jindrich, Emil; and Bajer, Frantisek, to Elitex, Zavody textilniho strojirenstvi generalni reditelstvi. Buttonhole sewing machine which automatically forms barring and covering stitches. 3,428,006, 2-18-69, Cl. 112-67.
Jines, James E.; and Jines, James W. Means for shielding and unshielding permanent magnets and magnetic motors utilizing same. 3,469,130, 9-23-69, Cl. 310-156.
Jines, James W.: *See—*
Jines, James E.; and Jines, James W.,3,469,130.
Jinnette, Allen J., to Burlington Industries, Inc. Process for distributing a resin in a fabric. 3,476,580, 11-4-69, Cl. 117-62.
Jinno, Minoru, to Kabushiki Kaisha Meiki Seisakusho. Board handling device for a multi-stage hot plate press. 3,435,966, 4-1-69, Cl. 214-16.6
Jintan Terumo Co., Ltd.: *See—*
Ishii, Ichiro, 3,435,944.
Ishii, Ichiro, 3,454,387.
Jinushi, Osamu; Hasegawa, Yoshio; and Hossaka, Takuji, to Yuasa Battery Company, Limited. Electric night fishing float. 3,421,246, 1-14-69, Cl. 43-17.5
Jirasek, Erik: *See—*
Kubovy, Miloslav; Jirasek, Erik; Stary, Josef; and Zavadsky, Karel,3,481,130.
Stary, Josef; Kubovy, Miloslav; and Jirasek, Erik,3,440,812.
Jirik, Frank E. Indirect proportion reflux. 3,476,725, 11-4-69, Cl. 260-89.1
Jirik, James J., to General Motors Corporation. Transmission linkage adjustor. 3,436,982, 4-8-69, Cl. 74-484.
Jirka, Karl; and Gutlhuber, Johann, to Kunststoffwerk Gebr. Anger G.m.b.H. & Co. Support members for pipes. 3,437,297, 4-8-69, Cl. 248-68.
Jirma Jos Scheider & Co.: *See—*
Macher, Karl, 3,457,003.
Jirou, Marcel; and Leroy, Jean Marie Louis, to Ugine Kuhlmann. Disazo dyestuffs containing an N,N-dicyanoethyl group. 3,479,332, 11-18-69, Cl. 260-186.
Jiruska, John L. Rack for use in developing exceptionally wide film. 3,430,548, 3-4-69, Cl. 95-94.
J L Products Incorporated: *See—*
Hamrick, James C., 3,464,858.
Hamrick, James C., 3,464,859.
J.M.D. Industries, Inc.: *See—*
Maurer, John A., Jr., 3,426,950.
Maurer, John A., Jr., 3,475,085.
J.M.J. Industries, Inc.: *See—*
Gundlach, Theodore F., 3,474,973.
Joachim, Eugen. Valise. 3,452,846, 7-1-69, Cl. 190-51.
Joachim Fromm Leopold Mayer-Bass GmbH: *See—*
Bonnet, Fritz; and Fromm, Robert Gustav, 3,442,657.
Joachim, Ursula: *See—*
McCormick, Jerry Robert Daniel; Joachim, Ursula; Jensen, Elmer Raymond; and Sjolander, Newell Oscar,3,431,303.
Joanell Laboratories, Inc.: *See—*
La Mura, Joseph L., 3,454,277.
Joanna Western Mills Company: *See—*
Falberg, Edward E., 3,437,506.
Joannou, Kyriacos, to Honeywell Inc. Ground electrode structure for electro- printing system. 3,473,074, 10-14-69, Cl. 313-351.
Joarder, Mohammad Golam Kibria; and Walker, Garland Ray, to Du Pont de Nemours, E. I., and Company. Air jet process and apparatus for making novelty yarn and product thereof. 3,474,613, 10-28-69, Cl. 57-34.
Jobard, Michel, to Compagnie de Saint-Gobain. Continuous polymerization in mass. 3,475,398, 10-28-69, Cl. 260-92.8
Jobe, Thornley C.: *See—*
Curtis, Edward Wesley; and Jobe, Thornley C.,3,454,708.
Jobin, Alvin H.: *See—*
Bell, Charles C.; and Jobin, Alvin H.,3,477,217.
Jobin, Ralph A., to Kellogg Company. Method for maintaining softness in raisins. 3,453,118, 7-1-69, Cl. 99-104.
Jobling, James A., & Company Limited: *See—*
Lambert, Keith Trevor; and Prior, Stanley, 3,452,483.
Joch, Erich, to Dynamit Nobel Aktiengesellschaft. Practice projectile. 3,433,157, 3-18-69, Cl. 102-92.7
Jochim, Paul N. Filing device having pockets formed by stepped slips. 3,420,380, 1-7-69, Cl. 211-10.
Jochum, Peter: *See—*
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf,3,453,242.
Jockers, Kurt; Meier, Hermann; and Taglinger, Ludwig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of nitric oxide. 3,446,587, 5-27-69, Cl. 23-157.
Joe, Edwin G.: *See—*
Ashbrook, Allan W.; Ritcey, Gordon M.; and Joe, Edwin G.,3,455,680.
Joel, Amos E., Jr.: *See—*
Jaeger, Richard J., Jr.; and Joel, Amos E., Jr.,3,484,560.
Joest, Herbert: *See—*
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; and Joest, Herbert,3,432,544.

Joffe, Boris B.; and Tiebor, John E., to Twin City Testing Corporation. Beta-ray measuring probe and alignment structure. 3,483,375, 12-9-69, Cl. 250-83.
Joffe, Boris B.; and Tiebor, John E., to Twin City Testing Corporation. Self-stabilizing portable probe for measuring thickness utilizing radiation. 3,483,382, 12-9-69, Cl. 250-106.
Joffe, Daniel E.: *See—*
Joffe, Roland D.; and Joffe, Daniel E.,3,424,109.
Joffe, Frederick M.: *See—*
Bergeron, Robert J.; Hair, Eddy R.; and Joffe, Frederick M.,3,436,227.
Joffe, Roland D.; and Joffe, Daniel E. Process for the manufacture of molded sugar items. 3,424,109, 1-28-69, Cl. 107-54.
Joffre, Henri: *See—*
Dieval, Michel; Dupoux, Jean; Joffre, Henri; and Pradel, Jacques,3,448,269.
Joh Mustad AB: *See—*
Bergman, Sune Hearley, 3,432,607.
Joh Vaillant KG: *See—*
Meier, Hans, 3,426,971.
Johannes, Gunter: *See—*
Menell, Hans; and Johannes, Gunter,3,467,161.
Johannes, Virgil I.: *See—*
Heightley, John D.; Johannes, Virgil I.; Mayo, John S.; and Witt, Francis J.,3,420,956.
Johannes, Virgil I.; and McCullough, Richard H., to Bell Telephone Laboratories, Incorporated. System for time division multiplexed signals from asynchronous pulse sources by inserting control pulses. 3,461,245, 8-12-69, Cl. 179-15.
Johannessen, Paul R., to Sylvania Electric Products, Inc. Parametric frequency converter for transmitting antenna. 3,422,355, 1-14-69, Cl. 325-145.
Johannessen, Paul R., to Sylvania Electric Products, Inc. High power pulse width modulator employing step recovery diodes. 3,486,043, 12-23-69, Cl. 307-265.
Johannisson, Dag Olof Alfred: *See—*
Arnell, Jon Arne; and Johannisson, Dag Olof Alfred,3,429,326.
Johannisson, Dag Olof Alfred, to AGA Aktiebolag. Valve device, particularly for breathing apparatus. 3,460,558, 8-12-69, Cl. 137-102.
Johannisson, Dag Olof Alfred, to AGA Aktiebolag. Breathing apparatus having an arrangement for artificial respiration. 3,474,784, 10-28-69, Cl. 128-145.7
Johanns, Heinz: *See—*
Gersch, Josef; Wiesner, Max; Hoffacker, Franz; Barke, Hans Joachim; Johanns, Heinz; and Kreckeler, Fritz,3,481,552.
Johannsen, Bruno B.; and Thompson, John C., to Deere & Company. Two-way plow. 3,428,136, 2-18-69, Cl. 172-285.
Johannsen, Karl Emil: *See—*
Kietz, Hans; and Johannsen, Karl Emil,3,473,500.
Johannsen, Robert A., to Trane Company, The. Reverse cycle refrigeration system. 3,421,337, 1-14-69, Cl. 62-115.
Johansen, Arnfinn. Teaching device. 3,461,570, 8-19-69, Cl. 35-9.
Johansen, Bergiton. Adjustable threshold. 3,475,866, 11-4-69, Cl. 49-468.
Johansen, David L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,466,085.
Johansen, Gunnar, to MacWhyte Company. Mechanical eye splice for 6- and 8-part braided slings. 3,472,121, 10-14-69, Cl. 87-8.
Johansen, John H.; and Herman, Walter H., to Scott Paper Company. Wrapper tightening. 3,441,129, 4-29-69, Cl. 206-65.
Johansen, Knud Harald Storm, to Servodan A/S. Automatic installation for washing hands. 3,480,787, 11-25-69, Cl. 250--221
Johansen, Paul: *See—*
Moroney, Ronald; Johansen, Paul; and Schwenzer, Heinz,3,474,595.
Johansen, Philip J.: *See—*
Dybvad, Richard L.; and Johansen, Philip J.,3,486,371.
Johansen, Philip J., to Electro Development Corporation. Apparatus for welding pole pieces to laminated cores. 3,454,739, 7-8-69, Cl. 219-78.
Johanson, Edwin S., to Hydrocarbon Research, Inc. Osmotic purification of solutions. 3,470,093, 9-30-69, Cl. 210-22.
Johanson, Frederic R., to Jaeger Machine Company, The. Tool for arranging a group of leads of an integrated circuit element to facilitate mounting. 3,447,575, 6-3-69, Cl. 140-106.
Johanson, Frederic R.; and Smith, Meredith E., Jr., to Jaeger Machine Company, The. Electric control circuit and hydraulic system for concrete pumping apparatus. 3,477,380, 11-11-69, Cl. 103-49.
Johanson, John E. Enclosed adjustable capacitor with seals for operating rod. 3,432,734, 3-11-69, Cl. 317-245.
Johanson, John E., to Johanson Manufacturing Corporation. Adjustable low-pass capacitor. 3,469,160, 9-23-69, Cl. 317-251.
Johanson, Lars. Alignment-adjustable electrode chuck. 3,474,215, 10-21-69, Cl. 219-69.
Johanson Manufacturing Corporation: *See—*
Johanson, John E., 3,469,160.
Johansson, Ake: *See—*
Blomgren, Lars; and Johansson, Ake,3,434,224.
Blomgren, Lars; and Johansson, Ake,3,452,446.
Johansson, Carl-Gustav Simon, to Aktiebolaget Gylling & Co. Device for opening or throttling the fuel supply to diesel engines. 3,452,732, 7-1-69, Cl. 123-179.
Johansson, Carl-Gustav Simon, to Aktiebolaget Gylling & Co., mesne. Device for starting internal combustion engines. 3,456,121, 7-15-69, Cl. 290-38.
Johansson, Carl-Gustav Simon, to Aktiebolaget Gylling & Co., mesne. Device for discoupling relays. 3,480,839, 11-25-69, Cl. 317-142.
Johansson, Christina: *See—*
Flodin, Per Gustaf Magnus; Granath, Kirsti Annikki; Ingelman, Bjorn Gustaf-Adolf; and Johansson, Christina,3,453,364.
Johansson, Fritz Agne, to Fabriks AB Forslund & Co. Rock-drill rig assembly. 3,473,616, 10-21-69, Cl. 173-35.
Johansson, Gillis Rune, to Jungner Instrument AB, mesne. Methods of performing coulometric titration of flowing fluids and an apparatus therefor. 3,438,872, 4-15-69, Cl. 204-1.
Johansson, Gillis Rune, to Jungner Instrument AB, mesne. Coulometric titration apparatus. 3,441,490, 4-29-69, Cl. 204-195.
Johansson, Jan Erik; and Nyman, Karl-Erik. Method for producing foundations for columns and the like. 3,429,129, 2-25-69, Cl. 61-50.
Johansson, Johan Gunnar Inge: *See—*
Asplund, Arne Johan Arthur; and Johansson, Johan Gunnar Inge,3,467,323.
Johansson, Johan Ingvar, to Avesta Jernverks Aktiebolag. Austenitic stainless steel pressure vessels. 3,456,831, 7-22-69, Cl. 220-3.
Johansson, Karl N. Ingvar. Roof construction. 3,478,474, 11-18-69, Cl. 52-11.
Johansson, Per Evald. Pile driving crane. 3,450,274, 6-17-69, Cl. 214-3.
Johansson, Rolf Gustav. Method of sliding-mould concrete casting, and a sliding mould for use in such casting. 3,453,707, 7-8-69, Cl. 25-131.
Johansson, Rune Oskar. Shelf brackets. 3,426,993, 2-11-69, Cl. 248-242.
Johansson, Sven Alfred. Hydraulic or pneumatic pressure control systems. 3,448,690, 6-10-69, Cl. 103-41.
Johansson, Yngve Lennart; and Orte, Sven Erik Willner, to Aktiebolaget Svenska Kullagergabriken. Lubricating devices. 3,465,848, 9-9-69, Cl. 184-27.
Johl, Albert; Hartmann, Albert; and Rink, Hans, to Geigy Chemical Corporation. N^6-Benzyl and alkyl urethane derivatives of benzyl and alkyl esters of lysine in compositions and methods for treating inflammation. 3,459,864, 8-5-69, Cl. 424-300.
John E. Smith's Sons Co.:*See—*
Schaller, Harold E., 3,477,674.
John, Gunther: *See—*
Bachem, Christian; John, Gunther; and Rust, Gustav,3,465,591.
John, Harold F.: *See—*
Faust, John W., Jr.; and John, Harold F.,3,473,974.
Faust, John W., Jr.; John, Harold F.; and Rubenstein, Martin S.,3,447,976.
John Hopkins University, The: *See—*
Talbot, Samuel A.; Harrison, Walter K.; Talbot, Belle O., executrix of the estate of said; Talbot, Samuel A., deceased said; and Harrison, Walter K.; assors., 3,481,324.
John J.; and Soble, Richard M., to Magnaflux Corporation. Weld tracker system having magnetically isolated pickup coils. 3,430,134, 2-25-69, Cl. 324-40.
John, Robert S., Jr., to Bell & Howell Company. Automatic focusing apparatus. 3,450,018, 6-17-69, Cl. 95-45.
John, Willy, to Gebruder Netzsch. Photoelectrically controlled copying apparatus. 3,429,207, 2-25-69, Cl. 82-14.
John, Willy; and Bauerfeind, Herbert, to Gebruder Netzsch. Motor coupling. 3,427,825, 2-18-69, Cl. 64-7.
Johne, Ernst Kurt. Method and device for congregating bee colonies. 3,426,374, 2-11-69, Cl. 6-1.
Johns Hopkins University, The: *See—*
Davis, Hugh J.; and Jones, Edmund A., 3,431,905.
Martinez, Miguel, 3,461,282.
Mason, Robert E., 3,464,404.
Taylor, Carl E., 3,431,906.
Johns, Marvin D.; and Brewer, Hal W., to Dana Corporation. Marine outdrive latch. 3,470,844, 10-7-69, Cl. 115-41.
Johns, Marvin D.; and Haydock, Stephen J., to Dana Corporation. Marine outdrive latch. 3,460,506, 8-12-69, Cl. 115-41.
Johns, Raymond. Lift truck with extendable and retractable load supporting means. 3,485,391, 12-23-69, Cl. 214-75.
Johns, Roderick W., to North American Rockwell Corporation. Tube tapering device with variable die orifice. 3,464,251, 9-2-69, Cl. 72-100.
Johns, William F., to Searle, G. D., & Co. 17-Oxygenated androsta/estra-4,6,8(14)-trien-3- ones, dihydro congeners, and intermediates. 3,462,422, 8-19-69, Cl. 260-239.55
Johns, William: *See—*
Canavan, John J.; Gawrylowicz, Henry; Buckley, William J., Jr.; and Johns, William,3,430,863.
Johns-Manville Corporation: *See—*
Ayers, Osborn, 3,437,548.

Binkley, Mark E.; and Ayers, Osborn, 3,449,141.
Clarvoe, George W., 3,455,076.
Collins, John Oliver, Jr., 3,432,381.
Corbin, Raymond Le Rae, 3,434,259.
Crouch, Robert T.; and Barger, Charles H., 3,460,581.
Dietz, Donald Albert, 3,442,730.
Ekdahl, Wendell Graydon, 3,420,938.
Ekdahl, Wendell Graydon, 3,449,137.
Hannes, George J., 3,438,401.
Harker, Robert I.; and Pellicane, Joseph P., Jr., 3,428,568.
Hutchins, Marsden Clair; and Quinn, Robert Gerard, 3,441,474.
Konrad, Howard Edwin; and Speil, Sidney, 3,456,914.
Kwiatanowski, Philip, Jr.; and Shebs, Theodore L., 3,464,543.
Lombardy, Frank, 3,437,546.
Long, Ernest Guinne, 3,455,077.
McMahon, Edward G., 3,432,373.
Poltorak, Emil Jacob, 3,481,824.
Pusch, Walter George, 3,484,073.
Quinn, Robert Gerard, 3,427,216.
Riede, Raymond George; and Cain, Clifford William, Jr., 3,427,249.
Rogers, William M., Jr., 3,477,905.
Shiuh, Chung Hsiung, 3,424,307.
Uralli, Samil S.; and Bormann, Ralph B., 3,469,783.
Van Tine, Wilbur; and Kotyuk, Bernard L., 3,460,856.
Wolff, Per; and Kaaber, Svend Henning, 3,440,219.
Yang, Julie Chi-Sun, 3,449,140.

Johns-Nigrelli-Johns, Inc.: *See*—
Nigrelli, Biagio J.; Standley, Wendell E.; and Sprogis, Andre, 3,454,149.
Standley, Wendell E.; and Wittmann, Richard B., 3,466,834.

Johnsen, Christian Frederick: *See*—
Bowditch, Hoel L.; and Johnsen, Christian Frederick,3,482,257.

Johnsen, Edward L., to Atlantic Business Forms Company. Continuous record forms. 3,482,780, 12-9-69, Cl. 229-69.

Johnsen, Erich Cornelius. Electrically fired gun and cartridge therefor. 3,427,924, 2-18-69, Cl. 89-135.

Johnsen, Harry C., to Phillips Petroleum Company. Cable joint with woven cable gripping means. 3,487,160, 12-30-69, Cl. 174-88.

Johnsen, James Alvin; and Peterson, John Loran, to Teletype Corporation. Differential relaxation oscillator. 3,432,772, 3-11-69, Cl. 331-111.

Johnsen, Vernon L.; Matern, Eugene V.; and Burnett, Raymond S., to Wilson Pharmaceutical & Chemical Corporation. Method of preparing proteinaceous material which comprises heating an aqueous solution of collagen- containing material at a temperature in the range of 250° F-350° F and then treating the solution with anion exchange resins. 3,475,404, 10-28-69, Cl. 260-123.7

Johnson & Day Golf Enterprises: *See*—
Day, Herbert T., 3,420,528.

Johnson & Johnson: *See*—
Bassett, Alton H., 3,468,748.
Bassett, Alton H.; and Plummer, Charles H., 3,485,699.
Bird, William Henry, 3,442,268.
Brewster, Charles A.; and Plummer, Charles H., 3,475,791.
Desnoyers, Paul J., 3,482,683.
Dipner, Charles D., 3,423,277.
Edenbaum, Martin I., 3,420,231.
Edwards, Warren R., 3,449,080.
Frydryk, John T., 3,467,037.
Gander, Robert J., 3,475,363.
Harmon, Carlyle, 3,420,235.
Harmon, Carlyle, 3,485,705.
Heffernan, William R., 3,445,558.
Heffernan, William R., 3,459,359.
Jamison, Samuel James, 3,422,815.
Kalwaites, Frank; and Poitras, Ernest L., 3,443,284.
Kalwaites, Frank, 3,444,020.
Kalwaites, Frank, 3,444,859.
Korpman, Ralf, 3,455,859.
Korpman, Ralf, 3,483,017.
Liloia, Gerald J.; and May, Louis F., Jr., 3,455,302.
Listner, Gregory J., 3,432,459.
Listner, Gregory J., 3,458,471.
Mesek, Frederick K.; and Strickel, William R., 3,437,539.
Mesek, Frederick K.; and Repke, Virginia, 3,452,877.
Mesek, Frederick K.; and Shepherd, Robert C., 3,483,051.
Morse, Edward A., 3,455,759.
Nash, Lawrence M.; and Taylor, Donald F., 3,448,478.
Ness, Irving S., 3,485,695.
Nimoy, Melvin, 3,427,670.
Olson, Robert James; Ellis, George L.; and Huval, Malcolm, 3,450,632.
Petterson, De Witt R.; and Smith, Delmont K., 3,438,842.
Philippi, George J.; and Rosnick, Albert L., 3,434,907.
Rahmes, Donald W., 3,436,978.
Robinson, Dennis; and Palfrey, Walter, 3,422,816.
Romanek, Gerald A., 3,426,756.
Ruffo, Angelo P., 3,481,337.
Santangelo, Francis J., 3,436,008.
Steinberg, Wallace H.; and Kohn, Saul R., 3,480,185.
Waldman, Harold L., 3,483,018.
Ziolko, Francis J., 3,435,482.

Johnson, Alexander L., to Du Pont de Nemours, E. I., and Company. Selected 13,14-diazatricyclo-[6.4.1.1^{2,7}] tetradecanes and diazatricyclo[6.4.1.1^{2,}] tetradecatetraenes and their preparation. 3,475,433, 10-28-69, Cl. 260-268.

Johnson, Alf R. Apparatus for sinking casings in the construction of caissons. 3,467,203, 9-16-69, Cl. 173-159.

Johnson, Alfred A. Surgical clamping and suturing instrument. 3,470,875, 10-7-69, Cl. 128-334.

Johnson, Alfred R., to Little, Arthur D., Inc. Highway marking compositions and method. 3,459,106, 8-5-69, Cl. 94-1.5

Johnson, Allan S., to Tapmatic Corporation. Variable torque clutch. 3,472,347, 10-14-69, Cl. 192-56.

Johnson, Allen A.: *See*—
Felix, Paul C.; and Johnson, Allen A.,3,469,718.

Johnson, Allie A. Fluent material weighing system. 3,460,641, 8-12-69, Cl. 177-99.

Johnson, Alvin L., to General Industries, Inc. Permanent elastometric valve seat construction. 3,432,143, 3-11-69, Cl. 251-317.

Johnson, Anderson F., Jr., to Western Electric Company, Incorporated. Methods of and apparatus for indexing articles. 3,435,943, 4-1-69, Cl. 198-221.

Johnson, Anderson F., Jr.: *See*—
Bippus, Jacob R.; and Johnson, Anderson F., Jr.,3,448,510.

Johnson, Arne W.: *See*—
Hood, John W.; and Johnson, Arne W.,3,469,330.

Johnson, Arnold R., to Western Electric Company, Incorporated. Data processing apparatus. 3,433,938, 3-18-69, Cl. 235-193.

Johnson, Arthur F. Carbon furnace electrode assembly. 3,428,545, 2-18-69, Cl. 204-290.

Johnson, Arthur F. Aluminum reduction cell with aluminum and refractory layered bottom construction. 3,434,957, 3-25-69, Cl. 204-243.

Johnson, Arthur F. Electrolytic cell bottom construction. 3,434,958, 3-25-69, Cl. 204-243.

Johnson, Arthur F. Electrolytic cell and vacuum process for filling pores in its lining. 3,457,149, 7-22-69, Cl. 204-67.

Johnson, Arthur F. Process and apparatus for filtering effluent produced from aluminum reduction cells. 3,470,075, 9-30-69, Cl. 204-67.

Johnson, Arthur J., III. Sheilded connection of thin walled conduits. 3,424,853, 1-28-69, Cl. 174-35.

Johnson, Arthur J.: *See*—
Conaway, William A.; Johnson, Arthur J.; and Smisko, Joe,3,421,843.

Johnson, Arthur J.; and Bakker, Willem F., to Matex Corporation. Shielded resilient boot for electric switches. 3,487,186, 12-30-69, Cl. 200-168.

Johnson, Arthur L., to Celanese Coatings Company. Synthetic enamel coating process. 3,438,800, 4-15-69, Cl. 117-64.

Johnson, Baynard A., to Roswell Iron and Metal Works, Inc. Drier rope cleaner. 3,454,150, 7-8-69, Cl. 198-229.

Johnson, Benjamin A.; and Forster, Donald M., to Eastman Kodak Company. Method for dispersing non-aqueous solution in aqueous gelatin solutions using an aspirating agitator. 3,425,835, 2-4-69, Cl. 96-94.

Johnson, Bernard A.; Adamski, Max, Jr.; and Lichodziejewski, Wieslaw L., to Fuller Company. Surface area measurement of standard length sample of finely divided solids. 3,457,791, 7-29-69, Cl. 73-432.

Johnson, Beth E.; and Stuart, Bernice E. Decorative article and method of making same. 3,434,911, 3-25-69, Cl. 161-16.

Johnson, Billy J.; Totty, Kenneth D.; and Young, Bill M., to Halliburton Company. Method of consolidating loose sands using furfuryl alcohol compositions. 3,437,145, 4-8-69, Cl. 166-295.

Johnson, Brant T., to Sylvania Electric Products, Inc. Sense amplifier circuit. 3,444,472, 5-13-69, Cl. 330-25.

Johnson Brothers (Hanley) Limited: *See*—
Johnson, Ernest James, 3,453,708.

Johnson, Bryan Kingsley; and Davies, Stanley, to Imperial Chemical Industries Limited. Processes and apparatus for the spinning of synthetic fiber-forming polymers. 3,487,142, 12-30-69, Cl. 264-176.

Johnson, Burnett H., to Esso Research and Engineering Company. Catalysts for the polymerization of olefins to yield predominantly dimers and trimers. 3,475,347, 10-28-69, Cl. 252-429.

Johnson, Burt E.: *See*—
Johnson, Burt E.; and Webb, Phillip B., Jr., 3,437,130.

Johnson, Burt E.; and Webb, Phillip B., Jr., to Johnson, Burt E., mesne. Portable self-contained pressurized air device for casting. 3,437,130, 4-8-69, Cl. 164-285.

Johnson, Caldwell C., to United States of America, National Aeronautics and Space Administration. Visual target for retrofire attitude control. 3,439,886, 4-22-69, Cl. 244-1.

Johnson, Calvin R. Metal tie rod for spaced walls of wood form for concrete wall. 3,430,913, 3-4-69, Cl. 249-217.

Johnson, Carl A.: *See*—
Burzynski, Alfred J.; and Johnson, Carl A.,3,451,838.
Szalay, Paul J.; and Johnson, Carl A.,3,484,397.

Johnson, Carl E., Jr.: *See—*
McAuliffe, Clayton D.; Simon, Ralph; and Johnson, Carl E., Jr.,3,467,195.
Johnson, Carl E., to Nalco Chemical Company. Purifying used metalworking lubricating oils. 3,450,627, 6-17-69, Cl. 208-180.
Johnson, Carl E., to Nalco Chemical Company. Rolling oil emulsions. 3,483,124, 12-9-69, Cl. 252-49.5
Strauss, Eugene O.; Walesa, Anthony C.; and Johnson, Carl E.,3,474,852.
Johnson, Carl G. A., to Alloy Engineering Company, The. Separator. 3,441,260, 4-29-69, Cl. 263-47.
Johnson, Carl W.: *See—*
Voss, Joseph A.; and Johnson, Carl W.,3,433,225.
Johnson, Charles A., to Bolton-Emerson, Inc. Pulper impeller vane. 3,432,107, 3-11-69, Cl. 241-46.17
Johnson, Charles A., to Bolton-Emerson, Inc. Rough cast segmental fillings for pulp refiners. 3,452,939, 7-1-69, Cl. 241-255.
Johnson, Charles D., to Texaco, Inc. Penetrating-fluid injector. 3,429,401, 2-25-69, Cl. 184-45.
Johnson, Charles E.; and Kolarik, Paul J., to Hewitt-Robins Incorporated. Liquid cargo handling system. 3,465,374, 9-9-69, Cl. 9-8.
Johnson, Charles J., Jr.; and Westerlund, Harry G., to Ekco Products, Inc. Apparatus for harmonic analysis of a complex Continuous motion closure apparatus. 3,435,588, 4-1-69, Cl. 53-366.
Johnson, Charles R., to North American Rockwell Corporation. Variable display having a reference and a code for indicating absolute values of the reference. 3,487,308, 12-30-69, Cl. 324-140.
Johnson, Christopher Linley: *See—*
Jubb, Albert; and Johnson, Christopher Linley,3,427,980.
Johnson, Christopher Richard Napier: *See—*
Harvey, Roland Michael; and Johnson, Christopher Richard Napier,3,429,772.
Johnson, Clarence Scott. Shark screen. 3,428,978, 2-25-69, Cl. 9-11.
Johnson, Clarence W., to Hedman Company, The. Limited amount check writer. 3,467,006, 9-16-69, Cl. 101-95.
Johnson, Clarence, to AMCA Pharmacutical Laboratories Ltd. Sectional body gate valve with seat scraping means. 3,478,771, 11-18-69, Cl. 137-242.
Johnson, Clark E., Jr. Displacement measuring encoder with uniformly distributed flux means and coextensive flux interrupting means. 3,421,012, 1-7-69, Cl. 250-233.
Johnson Construction Company AB: *See—*
Egenvall, Gustaf C., 3,430,693.
Johnson Corporation: *See—*
Passarello, Anthony R., 3,426,742.
Johnson, Curtis R. A., to Leeds & Northrup Company. Resiliently mounted recorder pen. 3,482,256, 12-2-69, Cl. 346-139.
Johnson, Daniel, to General Electric Company. Light optic digital transducer using displaced Ronchi rulings. 3,451,054, 6-17-69, Cl. 340-347.
Johnson, David A.; and Hardcastle, Glenn A., Jr., to Bristol-Myers Company. Crystalline form of D-(-)-α- aminobenzylpenicillin. 3,472,841, 10-14-69, Cl. 260-239.1
Johnson, David Bruce; Moro, Daniel; and Cristy, Nicholas G., to Macton Machinery Company, Inc. Turntable with short radius roller ring. 3,420,187, 1-7-69, Cl. 104-35.
Johnson, David, to Birch, William, (Engineers) Limited. Sewing machines. 3,468,271, 9-23-69, Cl. 112-199.
Johnson, Dee Lynn, to Eastman Kodak Company. Compounds dissolved in cyclic amine oxides. 3,447,939, 6-3-69, Cl. 106-135.
Johnson, Dee Lynn, to Eastman Kodak Company. Process for strengthening swellable fibrous material with an amine oxide and the resulting material. 3,447,956, 6-3-69, Cl. 117-154.
Johnson, Delbert B.: *See—*
Gibson, Robert G.; Johnson, Delbert B.; Mackin, John G., Jr.; and Straws, James C.,3,486,343.
Johnson, Delmar Ronald, to Ampex Corporation. Tape handling method and apparatus. 3,439,850, 4-22-69, Cl. 226-1.
Johnson, Delmar R.: *See—*
Quinn, James E.; and Johnson, Delmar R.,3,436,491.
Johnson, Don E., to Sonel. Connector for unthreaded pipe, and method of making the same. 3,462,175, 8-19-69, Cl. 285-53.
Johnson, Don E., to Thermodynamic Systems, Inc. Reciprocating engine, pump or motor. 3,477,345, 11-11-69, Cl. 91-207.
Johnson, Donald A.: *See—*
Hershey, Gerald L.; and Johnson, Donald A.,3,430,549.
Johnson, Donald D.: *See—*
Merrill, Taylor S.; and Johnson, Donald D.,3,435,580.
Johnson, Donald L. Process and apparatus for primary breakdown of roundwood. 3,472,296, 10-14-69, Cl. 144-326.
Johnson, Donald R.; Nadeau, Richard G.; Nieuweboer, Gerrit; and Truett, William L., to Du Pont de Nemours, E. I., and Company. Analytical test pack and process for analysis. 3,476,515, 11-4-69, Cl. 23-230.
Johnson, Donald S., Jr.: *See—*
O'Shea, Christopher J.; Quinn, Richard; and Johnson, Donald S., Jr.,3,426,196.
Johnson, Douglas, to General Motors Corporation. Gas turbine power plant. 3,477,228, 11-11-69, Cl. 60-36.
Johnson, Dwight N., to American Meter Company. Controller for diaphragm motor valve. 3,482,592, 12-9-69, Cl. 137-492.5
Johnson, Dwight N.; and Cameron, Albert R., to American Meter Company. Pressure regulator. 3,425,442, 2-4-69, Cl. 137-505.15
Johnson, Dwight N.; and Kwast, Theodore E., to American Meter Company. Gas sampler apparatus. 3,485,105, 12-23-69, Cl. 73-421.5
Johnson, Earl E.: *See—*
McCann, Walter L.; and Johnson, Earl E.,3,469,496.
Johnson, Edward E.; and Walker, Alfred O., to Nalco Chemical Company. Preparation of mixed tetraalkyl lead compounds. 3,441,582, 4-29-69, Cl. 260-437.
Johnson, Edward H., to American Warming & Ventilating, Inc., The. Air intake apparatus. 3,426,667, 2-11-69, Cl. 98-37.
Johnson, Edward L.; and Miller, Robert G., to Caterpillar Tractor Company. Electronic shift indicator. 3,420,328, 1-7-69, Cl. 180-106.
Johnson, Edward W., to Ford Motor Company. Method and apparatus for bulk storage of objects. 3,445,011, 5-20-69, Cl. 214-17.
Johnson, Edwin S., to Bell & Howell Company. Document transport and guide for office copiers. 3,432,234, 3-11-69, Cl. 355-75.
Johnson, Einar C., to United States of America, Navy. Miniaturized tunable resonator comprising intermeshing concentric tubular members. 3,448,412, 6-3-69, Cl. 333-82.
Johnson, Elmer G., to United States of America, Air Force. Electrofluidynamic accelerator. 3,436,960, 4-8-69, Cl. 73-147.
Johnson, Elmer G., to Honeywell Inc. Control apparatus. 3,460,554, 8-12-69, Cl. 137-15.2
Johnson, Emma M.: *See—*
Johnson, Philip A.,3,454,192.
Johnson, Eric Arthur, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the. Touch displays. 3,482,241, 12-2-69, Cl. 340-337.
Johnson, Eric W. Sealed bearing. 3,460,874, 8-12-69, Cl. 308-187.2
Johnson, Ernest James, to Midlands Gas Board, The, and Johnson Brothers (Hanley) Limited. Continuous pottery biln with slidable stretchers. 3,453,708, 7-8-69, Cl. 25-142.
Johnson, Ernest L., to GAF Corporation. Piano hammer felt. 3,487,429, 12-30-69, Cl. 84-254.
Johnson Fast Print Machine Corporation, The: *See—*
Hocutt, Urey, 3,462,300.
Johnson, Floyd D., to Westinghouse Electric Corporation. Circuit breaker with magnetic device releasable to effect opening of the breaker. 3,450,955, 6-17-69, Cl. 317-155.5
Johnson, Floyd O., to Varian Associates. Waveguide window having circulating fluid of critical loss tangent for dampening unwanted mode. 3,434,076, 3-18-69, Cl. 333-98.
Johnson, Francis: *See—*
Malhotra, Sudarshan K.; Moakley, Douglas F.; and Johnson, Francis,3,463,810.
Johnson, Frank W.: *See—*
Mayne, Warren R.; and Johnson, Frank W.,3,458,935.
Johnson, Frank W., to Unitek Corporation. Dental shell crown. 3,422,535, 1-21-69, Cl. 32-12.
Johnson, Fred L., Jr; and Brader, Walter H., Jr., to Jefferson Chemical Company, Inc. Method for the purification of methoxyacetaldehyde. 3,481,837, 12-2-69, Cl. 203-46.
Johnson, Fred M.: *See—*
Yariv, Amnon; Johnson, Fred M.; and El Sayed, Mostafa A.,3,465,166.
Johnson, Fred P., to United States of America, Army, mesne. Small arms locator. 3,445,808, 5-20-69, Cl. 340-16.
Johnson, Frederick Douglas: *See—*
Rosenberg, William; Crafton, Charles J.; Johnson, Frederick Douglas; and Hohman, Ross W.,3,439,590.
Johnson, Frederick H., Jr.: *See—*
Welsh, John A.; and Johnson, Frederick H., Jr.,3,450,598.
Johnson, Frederick O.; and Finzi, Leo A., to Westinghouse Electric Corporation. Solid state means for the prevention of transient saturation of inductive apparatus. 3,444,455, 5-13-69, Cl. 323-18.
Johnson, Frederick O.; and Rosa, John, to Westinghouse Electric Corporation. Firing circuit for controlled electronic valves in the lines of a polyphase system. 3,436,645, 4-1-69, Cl. 323-24.
Johnson, Gene Ann: *See—*
Larsen, Andrew C., 3,467,258.
Johnson, George B. Tool holder assembly for machine tools. 3,471,912, 10-14-69, Cl. 29-57.
Johnson, George C., Jr., to Enamel Products Company, The. Chalk board with guide lines and method of making same. 3,486,246, 12-30-69, Cl. 35-66.
Johnson, George F.: *See—*
Kolster, Wilhelm K., 3,460,385.
Johnson, Gerald A., to Jefferson Chemical Company, Inc. Conversion of cyanates to thiocyanates. 3,459,498, 8-5-69, Cl. 23-75.
Johnson, Gerould A.: *See—*
Turner, George L.; Johnson, Gerould A.; Disbrow, Richard A.; and Nestell, Donald E.,3,432,102.

Turner, George L.; Johnson, Gerould A.; and Disbrow, Richard A.,3,448,928.

Johnson, Glen M., 20% to Moss, Leo. Lumber guiding safety attachment for table saws. 3,457,972, 7-29-69, Cl. 143-157.

Johnson, Glenn D., to Shell Oil Company. Method and apparatus for driving pretensioned piles. 3,443,387, 5-13-69, Cl. 61-53.7

Johnson, Glenn D., to Shell Oil Company. Power-torque pipe tongs. 3,463,037, 8-26-69, Cl. 81-54.

Johnson, Glenn D., to Shell Oil Company. Underwater wellhead apparatus. 3,463,226, 8-26-69, Cl. 166-0.5

Johnson, Glenn D.; and Gibbs, Fred E., to Shell Oil Company. Casing hanger. 3,454,088, 7-8-69, Cl. 166-124.

Johnson, Glenn D.: *See—*
Dozier, James Ronald; and Johnson, Glenn D.,3,442,540.
Richardson, Thomas W. G.; Johnson, Glenn D.; and Hemphill, Dean P.,3,431,739.

Johnson, Glenn E., to United States of America, Interior. Production of carbon black from coal. 3,424,556, 1-28-69, Cl. 23-209.4

Johnson, Glenn E.; Forney, Albert J.; and Field, Joseph H., to United States of America, Interior. Process for removing organic contaminants using coal adsorbents. 3,424,676, 1-28-69, Cl. 210-40.

Johnson, Glenn J. Self-closing gate. 3,435,557, 4-1-69, Cl. 49-70.

Johnson, Gordon C.; and Sterman, Samuel, to Union Carbide Corporation. Process for sizing paper with epoxy silicone and resulting products. 3,431,143, 3-4-69, Cl. 117-155.

Johnson, Gordon, Company: *See—*
Bonuchi, James A.; and Evans, Donald L., 3,471,990.
Woods, William C., 3,475,785.
Zebarth, Ralph S.; and Frederick, Henry E., 3,471,893.
Zebarth, Ralph S.; and Carlson, Drexel T., 3,475,178.
Zebarth, Ralph S.; and Frederick, Henry E., 3,477,093.

Johnson, Graham K.,; and Hefler, paul R., to SI Handling Systems, Inc. Tow truck switch system. 3,481,281, 12-2-69, Cl. 104-172.

Johnson, Grannis S., to GAF Corporation. 1-(*p*-benzyloxyanilino)-4-hydroxy-anthraquinones. 3,458,537, 7-29-69, Cl. 260-380.

Johnson, Guy L., to United States of America, Navy. Single stage servo actuator. 3,468,221, 9-23-69, Cl. 91-52.

Johnson, Harald R.: *See—*
Grudin, Milton R.; and Johnson, Harald R.,3,448,358.

Johnson, Harold E. Formation perforator. 3,468,386, 9-23-69, Cl. 175-4.6

Johnson, Harold L.: *See—*
Gustafson, Henry E.; and Johnson, Harold L.,3,473,779.

Johnson, Harold R.: *See—*
Breon, Pearl L.; Imes, Vernon W.; Johnson, Harold R.; Nutter, James M.; and Nutter, James M.,3,478,833.

Johnson, Harold R. Slide lock. 3,472,476, 10-14-69, Cl. 248-245.

Johnson, Harvey H. Roof box frame haunch joint. 3,470,661, 10-7-69, Cl. 52-93.

Johnson, Herbert G. Heat exchangers having plastic components. 3,426,841, 2-11-69, Cl. 165-178.

Johnson, Herbert G., to Shell Oil Company. Forming thermoplastic articles. 3,470,291, 9-30-69, Cl. 264-292.

Johnson, Herbert G.: *See—*
Stothoff, William L., III.; and Johnson, Herbert G.,3,461,803.

Johnson, Howard E.: *See—*
D'Eustachio, Dominic; and Johnson, Howard E.,3,441,396.
D'Eustachio, Dominic; and Johnson, Howard E.,3,459,630.

Johnson, Howard E.; and D'Eustachio, Dominic, to Pittsburgh Corning Corporation. Method of making a shaped article from coated multicellular glass nodules. 3,429,955, 2-25-69, Cl. 264-45.

Johnson, Howard M., 1/2 to Coleman, Joseph B. Bath shell enclosure for bathtubs. 3,479,778, 11-25-69, Cl. 52-35.

Johnson, Hugh A., Sr. Self-irrigated planter. 3,452,475, 7-1-69, Cl. 47-38.

Johnson, Irvin D., to Marathon Oil Company. Apparatus for the determination of location of interfaces between different materials. 3,424,002, 1-28-69, Cl. 73-290.

Johnson, Irvin D., to Marathon Oil Company. Field gradient detector. 3,482,235, 12-2-69, Cl. 340-248.

Johnson, James E.; Priest, Clifford G.; Lackey, Gerald F.; and Swonger, Kenneth D., to Paramedical Research and Development Corporation. Aerosol apparatus and method of generating micronic size aerosol particles. 3,472,455, 10-14-69, Cl. 239-135.

Johnson, James L.: *See—*
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B.,3,442,619.
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B.,3,442,620.

Johnson, James L.; and Stephens, Harold C., to International Business Machines Corporation. Linear motor velocity detection apparatus. 3,470,399, 9-30-69, Cl. 310-13.

Johnson, James N.; and Lorenc, Donald D., to Allis-Chalmers Manufacturing Company. Ejection mechanism for scraper. 3,479,758, 11-25-69, Cl. 37-129.

Johnson, James R., to Strom Products Co. Method of making a printing wheel for printing a code on insulated wire. 3,440,705, 4-29-69, Cl. 29-159.

Johnson, James R., to Minnesota Mining and Manufacturing Company. Structural articles and method of making. 3,444,925, 5-20-69, Cl. 165-166.

Johnson, James R. Perspective drafting device. 3,464,117, 9-2-69, Cl. 33-77.

Johnson, James R.; Harvey, James E.; and Kingslake, Rudolf, to Eastman Kodak Company. Accessory lens having at least one Bravais point outside the lens. 3,441,338, 4-29-69, Cl. 350-183.

Johnson, James R.; and Sowman, Harold G., to Minnesota Mining and Manufacturing Company. Composite green structures for nuclear fuel element. 3,436,307, 4-1-69, Cl. 176-69.

Johnson, James R.; and Sowman, Harold G., to Minnesota Mining and Manufacturing Company. Fuel elements. 3,454,396, 7-8-69, Cl. 75-208.

Johnson, James S.; and Kraus, Kurt A., to United States of America, Atomic Energy Commission. Hyperfiltration process having ion exchange pretreatment. 3,431,201, 3-4-69, Cl. 210-23.

Johnson, James S.; Kraus, Kurt A.; Marcinkowsky, Arthur E.; Phillips, Harold O.; and Shor, Arthur J., to United States of America, Atomic Energy Commission. Method of separating salts from aqueous solutions. 3,449,245, 6-10-69, Cl. 210-23.

Johnson, James, to Lucas, Joseph, (Industries) Limited. Direction indicator switches with yieldably mounted safety cancelling cam. 3,469,046, 9-23-69, Cl. 200-61.34

Johnson, Jay H., to Kentucky Electronics Inc. Slotted convergence cup electrode for color television tube with flanged rim snubber springs, and having flanged magnetic pole pieces therein. 3,441,769, 4-29-69, Cl. 313-84.

Johnson, Jay H., to Kentucky Electronics, Inc. Methods of manufacturing electrodes for cathode ray tubes. 3,442,008, 5-6-69, Cl. 29-477.

Johnson, Jay H., to Kentucky Electronics, Inc. Pole piece mounting structure in CRT convergence electrode. 3,482,137, 12-2-69, Cl. 313-85.

Johnson, Jay H.: *See—*
Merchant, Chester O.; and Johnson, Jay H.,3,434,819.

Johnson, Jerome A.: *See—*
Fruehling, Gene R.; and Johnson, Jerome A.,3,431,486.

Johnson, Jerome H.: *See—*
Conger, Robert L.; and Johnson, Jerome H.,3,484,627.

Johnson, Jerome L., to Honeywell Inc. Fluid temperature responsive apparatus. 3,451,269, 6-24-69, Cl. 73-346.

Johnson, Jerome L., to Honeywell Inc. Pressure responsive apparatus. 3,451,411, 6-24-69, Cl. 137-81.5

Johnson, Jim H.; Rainwater, Walter J.; and Standefer, John E., to Ling-Temco-Vought, Inc. Particle sensing means and method of making same. 3,473,096, 10-14-69, Cl. 317-246.

Johnson, Joe W.: *See—*
Kaleda, William W.; and Johnson, Joe W.,3,443,961.

Johnson, John A.: *See—*
King, Charles Lee; and Johnson, John A.,3,464,359.

Johnson, John C., Jr.; Madey, Jesse M.; Moyer, Xopher W.; and McCarthy, Dennis K., to United States of America, National Aeronautics and Space Administration. Mechanical actuator. 3,460,397, 8-12-69, Cl. 74-100.

Johnson, John Douglas, to Kodiak Corporation. Weighted billiard cue. 3,468,538, 9-23-69, Cl. 273-68.

Johnson, John H.: *See—*
Carlson, Burnette J.; and Johnson, John H.,3,476,445.

Johnson, John H., to TRW Inc. Filament wound bearing cage. 3,472,567, 10-14-69, Cl. 308-201.

Johnson, John L., Jr.: *See—*
Fuzzell, Joe E.; Thompson, John C.; and Johnson, John L., Jr.,3,477,607.

Johnson, John Raymond: *See—*
Murphy, Allen Milton, Jr.; Retzke, Franklin Albert; and Johnson, John Raymond,3,479,175.

Johnson, John R. Combination locking closure for containers. 3,445,021, 5-20-69, Cl. 215-9.

Johnson, John R., to Owens-Illinois, Inc. Container indexing and rotating. 3,460,669, 8-12-69, Cl. 198-33.

Johnson, John R.; and Goodwin, Robert F., to Royal Industries. Wound package. 3,430,893, 3-4-69, Cl. 242-159.

Johnson, John S.; and McCullough, Edward E., to Thiokol Chemical Corporation. Passive communications satellite or similar article. 3,420,469, 1-7-69, Cl. 244-1.

Johnson, John. Switch. 3,484,567, 12-16-69, Cl. 200-11.

Johnson, Joseph E. Prefabricated cabinet structure. 3,466,106, 9-9-69, Cl. 312-242.

Johnson, Joseph F.; and Laubenheimer, Robert W., to General Electric Company. Electric circuit breaker with magnetic tripping means. 3,421,123, 1-7-69, Cl. 335-35.

Johnson, Joseph N., to Associated Development Corporation. Low pressure torch. 3,441,360, 4-29-69, Cl. 431-345.

Johnson, Keith Eric: *See—*
Jackson, Richard Norman; and Johnson, Keith Eric,3,485,946.

Johnson, Keith Liddell, to Swift & Company. Emulsifiers for agricultural pesticides. 3,442,818, 5-6-69, Cl. 252-353.

Johnson, Keith L., to Swift & Company. Lubricating composition. 3,442,805, 5-6-69, Cl. 252-34.7

Johnson, Keith M.; Marine, Robert P.; and Akers, Edward G., to Polytop Corporation, mesne. Beer keg tapping device and seal. 3,473,556, 10-21-69, Cl. 137-322.
Johnson, Keith O.; and Broadbent, Kent D., to Gauss Electrophysics, Inc. Sintered rotor for an electric motor. 3,466,483, 9-9-69, Cl. 310-268.
Johnson, Keith O.; and Gregg, David Paul, to Gauss Electrophysics, Inc. Magnetic transducer. 3,480,736, 11-25-69, Cl. 179-100.2
Johnson, Kenneth C. Hollow wall fastener. 3,431,813, 3-11-69, Cl. 85-83.
Johnson, Kenneth C. Automatic control device. 3,457,942, 7-29-69, Cl. 137-118.
Johnson, Kenneth L., to Screw and Bolt Corporation of America. Weld element. 3,435,871, 4-1-69, Cl. 151-41.7
Johnson, Kenneth L., to Modules Corporation, mesne. Locknut. 3,441,073, 4-29-69, Cl. 151-21.
Johnson, Kenneth L., to Screw and Bolt Corporation of America. Prevailing torque locknut. 3,456,704, 7-22-69, Cl. 151-21.
Johnson, Kenneth M., to Stanley Works, The. Telescoping support rod having universal end cap. 3,429,452, 2-25-69, Cl. 211-105.3
Johnson, Kenneth M.; and Nelson, Albert C., to Stanley Works, The. Cafe traverse rod assembly. 3,482,618, 12-9-69, Cl. 160-345.
Johnson, Kenneth O., to General Motors Corporation. Blade vibration damping. 3,451,654, 6-24-69, Cl. 253-77.
Johnson, Kenneth P. Stirling cycle machine and system. 3,460,344, 8-12-69, Cl. 60-24.
Johnson, Kenneth W., to Wright, Barry, Corporation. Shock and vibration mount. 3,428,279, 2-18-69, Cl. 248-21.
Johnson, Kenneth W., to Johnson-Williams, Inc. Transformer incipient fault detection. 3,438,738, 4-15-69, Cl. 23-232.
Johnson, Kenneth W.; Klippert, Thomas Edward; and Ramler, Warren J., to United States of America, Atomic Energy Commission. Electron pulse generator of the grounded grid type employing a delay line storage means. 3,457,517, 7-22-69, Cl. 328-231.
Johnson, Lawrence E. Strainer and flow-directing apparatus for swimming pool floor drains. 3,469,700, 9-30-69, Cl. 210-238.
Johnson, Lee W., to Minnesota Mining and Manufacturing Company. Apparatus for powder development of liquid latent images. 3,446,184, 5-27-69, Cl. 118-637.
Johnson, Lee; Arthur, Ralph P.; and Schweiker, George C., to Borg-Warner Corporation. Graft copolymer of haloacrylonitrile upon diene-acrylate polymer. 3,458,601, 7-29-69, Cl. 260-879.
Johnson, Leighton Clifford, to Miles Laboratories, Inc. Microtome. 3,460,417, 8-12-69, Cl. 83-111.
Johnson, Leighton Clifford: *See—*
McCormick, James Benjamin; and Johnson, Leighton Clifford,3,431,886.
Johnson, Leo F.: *See—*
Dillon, Joseph F., Jr.; Johnson, Leo F.; and Remeika, Joseph P.,3,480,877.
Johnson, Leonard B.: *See—*
Kent, Robert L.; Badessa, Rosario S.; Barus, Carl; Dunn, Joseph M.; Glaser, Raymond Arthur; and Johnson, Leonard B.,3,477,666.
Johnson, Leonard E., Jr. Sliding door lock. 3,453,014, 7-1-69, Cl. 292-98.
Johnson, Leonard J. W., to British Aircraft Corporation (Operating) Limited. Manufacture of printed circuits. 3,457,638, 7-29-69, Cl. 29-625.
Johnson, Leonard Terence. Production of iron alloys. 3,446,614, 5-27-69, Cl. 75-129.
Johnson, Leonard W.: *See—*
Olson, Harold G.; and Johnson, Leonard W.,3,456,410.
Johnson, Leslie William; and Reeder, Edwin William, to Deere & Company. Planter. 3,464,376, 9-2-69, Cl. 111-51.
Johnson, Lew W. Hydrofoil craft. 3,456,611, 7-22-69, Cl. 114-66.5
Johnson, Lloyd E.: *See—*
Carter, Carl W.; and Johnson, Lloyd E.,3,486,582.
Johnson, Logan J.: *See—*
Reinsma, Harold L.; Dadds, Floyd S.; and Johnson, Logan J.,3,463,560.
Johnson, Louis H.: *See—*
Ellis, Stancel C.; Hersel, Jorge J.; Johnson, Louis H.; Nelson, Ralph H.; and Yost, Roderick A.,3,454,342.
Johnson, Louis W. vibratory screening apparatus. 3,442,381, 5-6-69, Cl. 209-326.
Johnson, Lowell C. Dimensional gage with equalized spring pressure. 3,477,136, 11-11-69, Cl. 33-178.
Johnson, Lowell E.: *See—*
Coulter, Earl E.; Johnson, Lowell E.; and Modrak, Thomas M.,3,435,598.
Johnson, Lowell E.; Hansen, Robert C.; Pearce, Shairyl I.; and Lanchantin, Charles E., Jr., to Caterpillar Tractor Company. Torque converter and control system therefor. 3,478,621, 11-18-69, Cl. 74-688.
Horsch, Joachim; Johnson, Lowell E.; and Pearce, Shairyl I.,3,424,029.
Johnson, Loyd V.: *See—*
Jack, Walter Q.; and Johnson, Loyd V.,3,433,702.
Johnson, Lynn F.: *See—*
Miner, William W.; and Johnson, Lynn F.,3,426,673.
Johnson Major A., to General Electric Company. Electronic scanning system for wave energy beam forming and steering with receptor arrays. 3,460,145, 8-5-69, Cl. 343-100.
Johnson, Malcolm O., to Mobil Oil Corporation. Air feed device for valve retract system in pneumatic acoustic source. 3,434,562, 3-25-69, Cl. 181-0.5
Johnson, Martin H.; and Spellman, Patrick J., to E&B Incorporated, mesne. Primary alkaline cell. 3,433,679, 3-18-69, Cl. 136-102.
Johnson, Marvin D. Deceleration warning signal system. 3,431,556, 3-4-69, Cl. 340-72.
Johnson, Marvin E.: *See—*
Spackman, Robert R., Jr.; and Johnson, Marvin E.,3,466,931.
Johnson, Marvin F. L.: *See—*
Erickson, Henry; and Johnson, Marvin F. L.,3,428,550.
Johnson, Marvin M.: *See—*
De Vault, Albert N.; and Johnson, Marvin M.,3,451,920.
Johnson, Marvin M. Structure having light controlling means. 3,475,868, 11-4-69, Cl. 52-2.
Myers, John W.; and Johnson, Marvin M.,3,478,120.
Nelson, William T.; and Johnson, Marvin M.,3,459,824.
Johnson Matthey & Company Limited: *See—*
Selman, Gordon L., 3,478,415.
Johnson, Maurice Peter: *See—*
Berry, Allan David; Johnson, Maurice Peter; and Whitbread, John Raymond,3,449,525.
Johnson, Maurice V., Jr.: *See—*
Zwiacher, Wayne E.; Kaser, Louis D.; Johnson, Maurice V., Jr.; Fennell, Alfred H.; and Riddington, Fred W.,3,465,495.
Johnson, Melvin E. Keyboard assembly. 3,422,720, 1-21-69, Cl. 84-435.
Johnson, Melvin E.: *See—*
Starck, Brent; Johnson, Melvin E.; and Starck, Brent R.,3,426,636.
Johnson, Melvin L.; and Le Vasseur, Arnold P., to Minnesota Mining and Manufacturing Company. Apparatus for applying retroreflective bands on cylindrical surfaces. 3,424,127, 1-28-69, Cl. 118-219.
Johnson, Melvin O. Dual tractor tire attachment. 3,464,739, 9-2-69, Cl. 301-39.
Johnson, Merion L.; and Lupfer, Dale E., to Phillips Petroleum Company. Controlled feedstock division to parallel fractionators. 3,420,748, 1-7-69, Cl. 203-1.
Johnson, Merion L.; and Lupfer, Dale E., to Phillips Petroleum Company. Distillation column control with biasing signal as feedback correction for computed product flow rate. 3,449,215, 6-10-69, Cl. 203-3.
Johnson, Merriam E., to Eastman Kodak Company. Yarn material photographic processing apparatus. 3,442,196, 5-6-69, Cl. 95-89.
Johnson, Murray F.: *See—*
de Yarmett, Harry W.; and Johnson, Murray F.,3,459,442.
Johnson, Neil E.: *See—*
Fountain, Bruce A.; Johnson, Neil E.; and Turner, William C.,3,472,474.
Johnson, Nels J. Explosively operated injection gun for treating trees. 3,461,588, 8-19-69, Cl. 42-1.
Johnson, Nicky M.: *See—*
Hackley, Thomas H.; and Johnson, Nicky M.,3,465,360.
Johnson, Nicky M., to Varian Associates. Electrographic recorder employing an analog-to- digital converter having a dual comparator means defining the dead zone. 3,434,154, 3-18-69, Cl. 346-32.
Johnson, Olin B., to Ford Motor Company. Method for improving operational stability of electrocoating bath. 3,444,064, 5-13-69, Cl. 204-181.
Johnson, Paul B.: *See—*
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,421,457.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,453,885.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,463,843.
Johnson, Paul C., to Berkley & Company, Inc. Surface for water vehicles. 3,428,979, 2-25-69, Cl. 9-310.
Johnson, Paul C., to Parker Pen Company, The. Fibrous wick. 3,442,739, 5-6-69, Cl. 156-180.
Johnson, Paul C.; and Christenson, Harlan B., to Berkley & Company, Inc. Fishing rod structure. 3,436,857, 4-8-69, Cl. 43-18.
Johnson, Paul C.: *See—*
Christensen, Harlan B.; and Johnson, Paul C.,3,451,305.
Johnson, Paul H.; and Dollinger, Robert E., to Phillips Petroleum Company. Carbon black furnace and process employing insertable rods of catalytic refractory. 3,484,200, 12-16-69, Cl. 23-209.5
Johnson, Paul J. Incinerator. 3,455,257, 7-15-69, Cl. 110-14.
Johnson, Paul R.: *See—*
Stafford, Donald C.; Chamberlin, Robert S.; and Johnson, Paul R.,3,441,262.
Johnson, Peter D., to General Electric Company. Light valve. 3,424,863, 1-28-69, Cl. 178-7.5
Johnson, Peter D., to General Electric Company. Mercury bismuth halide photochemical arc lamp light sources. 3,450,925, 6-17-69, Cl. 313-229.

Johnson, Peter D., to General Electric Company. Metal halide vapor photochemical light sources. 3,484,640, 12-16-69, Cl. 313-210.
Johnson, Peter: *See—*
Foster, Gordon; and Johnson, Peter,3,456,019.
Johnson, Philip A., deceased0 (by Johnson, Emma M.; surviving spouse and heir), to UMC Industries, Inc. Article dispensing apparatus. 3,454,192, 7-8-69, Cl. 221-67.
Johnson Products, Inc.: *See—*
Kueny, Kenneth E., 3,444,759.
Kueny, Kenneth E., 3,472,651.
Johnson, Ralph E., to Singer Company, The. Modular sewing machines. 3,420,200, 1-7-69, Cl. 112-258.
Johnson, Ralph E., to Singer Company, The. Sewing machines with needle and loop taker operable not in predictably timed relationship. 3,476,067, 11-4-69, Cl. 112-182.
Johnson, Ralph E.; and Van Sant, Arthur D., to Portec, Inc. Rail anchor. 3,460,755, 8-12-69, Cl. 238-315.
Johnson, Ralph H. Rotating amusement device. 3,481,599, 12-2-69, Cl. 272-33.
Johnson, Ralph S. Aerial dispensing apparatus. 3,484,062, 12-16-69, Cl. 244-136.
Johnson, Randall W., to Automatic Radio Manufacturing Co., Inc. Mobile refrigeration unit having shaft in common with compressor, fan drive means and selectable hydraulic or electric motor. 3,477,637, 11-11-69, Cl. 230-214.
Johnson, Raymond A., to Diamond Walnut Growers, Inc. Method of color coating nutshells. 3,485,640, 12-23-69, Cl. 99-176.
Johnson, Rayner S., to Du Pont de Nemours, E. I., and Company. Aryl alkoxythioureas. 3,457,292, 7-22-69, Cl. 260-453.
Johnson, Richard A.: *See—*
Vercellotti, Leonard C.; and Johnson, Richard A.,3,440,629.
Johnson, Richard D. Mineral bed backwashing devices. 3,455,458, 7-15-69, Cl. 210-197.
Johnson, Richard L.: *See—*
Gang, Robert E.; and Johnson, Richard L.,3,437,963.
Johnson, Richard L., to Varian Associates. Permanent magnet employing an adjustable shunt internally of the permanent magnet structure. 3,460,083, 8-5-69, Cl. 335-297.
Johnson, Richard S., to Modine Manufacturing Company. Method of making an expanded metal fin for an oil cooler. 3,456,320, 7-22-69, Cl. 29-157.3
Johnson, Robert A.; and Teske, Roger J., to Collins Radio Company. Mechanical filter having general stopband characteristics. 3,440,574, 4-22-69, Cl. 333-72.
Johnson, Robert A.: *See—*
Abbott, George F.; Ceonzo, Joseph A.; Isenberg, John F., Jr.; Johnson, Robert A.; and Regan, John M.,3,482,057.
Doyle, George W.; and Johnson, Robert A.,3,444,892.
Johnson, Robert B.; and Goddard, William H., to Eastman Kodak Company. Recessed handle assembly. 3,451,590, 6-24-69, Cl. 220-94.
Johnson, Robert B.; and Kirn, Thomas G., to Eastman Kodak Company. Load equalizing mechanism for a film pull down system. 3,463,373, 8-26-69, Cl. 226-49.
Johnson, Robert B.: *See—*
Roman, Robert J.; O'Donnell, Miles C.; and Johnson, Robert B.,3,484,159.
Johnson, Robert C.; and Shell, Haskiel R., to United States of America, Interior. Method of synthesizing asbestos. 3,463,607, 8-26-69, Cl. 23-110.
Johnson, Robert G.; and Troxell, Truxton B. Toy vehicle wheel. 3,445,958, 5-27-69, Cl. 46-221.
Johnson, Robert H.: *See—*
Garrett, Jim C.; and Johnson, Robert H.,3,442,477.
Johnson, Robert J., to Radiation Incorporated. Advance store electronic latching switch. 3,445,858, 5-20-69, Cl. 346-74.
Johnson, Robert L.: *See—*
Buckley, Donald H.; and Johnson, Robert L.,3,466,243.
Johnson, Robert L., to United States Steel Corporation. Cantilever platform extension. 3,475,779, 11-4-69, Cl. 14-71.
Johnson, Robert Phillip; and Oswald, John Paul, to Abbott Laboratories. Aroylalkyl derivatives of 1,2,3,4- tetrahydro-5H-pyrido [4, 3b] indoles. 3,448,114, 6-3-69, Cl. 260-296.
Johnson, Robert Phillip; and Oswald, John Paul, to Abbott Laboratories. Aroylalkyl derivatives of 1,2,3,4-tetrahydro-5H-pyrido[4,3b]indoles. 3,466,293, 9-9-69, Cl. 260-294.9
Johnson, Robert W. Structural holding and aligning fixture. 3,456,702, 7-22-69, Cl. 145-1.
Maloney, Jim N., Jr.; Campbell, Charles R.; and Johnson, Robert,3,457,152.
Johnson, Robert; and Jones, Roy E., to Monsanto Company. Quaternary ammonium salt recovery. 3,484,348, 12-16-69, Cl. 204-73.
Johnson, Roger D., to Donnelly Mirrors, Inc. Periscopic rearview system. 3,441,335, 4-29-69, Cl. 350-55.
Johnson, Roger D.: *See—*
Dykema, James A.; and Johnson, Roger D.,3,427,095.
Dykema, James A.; and Johnson, Roger D.,3,427,096.
Johnson, Roger W.: *See—*
Fick, Herbert J.; and Johnson, Roger W.,3,437,522.
Johnson, Roger W., to General Motors Corporation. Electrical stock removal cutting tool electrode. 3,476,676, 11-4-69, Cl. 204-284.
Johnson, Rollie C.; and Melchor, Eugene B., to E & T Company. Method and apparatus for presentation of aural effects and visual displays. 3,474,774, 10-28-69, Cl. 128-1.
Johnson, Ronald V., to Hoerner-Waldorf Corporation. Book folder. 3,441,195, 4-29-69, Cl. 229-40.
Johnson, Ronald V., to Hoerner-Waldorf Corporation. Recessed end containers. 3,465,946, 9-9-69, Cl. 229-40.
Johnson, Roy Bernhard, to American Machine & Foundry Company. Jacking system for offshore platforms. 3,435,621, 4-1-69, Cl. 61-46.5
Johnson Rubber Co., The: *See—*
Sudyk, John R., 3,447,794.
Johnson, Rulon Edward, Jr.: *See—*
Gumprecht, William Henry; and Johnson, Rulon Edward, Jr.,3,445,392.
Johnson, Russell L.: *See—*
Mitchell, Orville; Rubenstein, Irving H.; Roden, Richard L.; and Johnson, Russell L.,3,470,706.
Johnson, Russell R.: *See—*
Welty, Albert B., Jr.; Johnson, Russell R.; and Atwood, Glenn A.,3,476,513.
Johnson, S. C., & Son, Inc.: *See—*
Boehm, George L.; and Horvath, Stephen R., Jr., 3,422,993.
Hurst, Mowatt M., 3,432,346.
Johnson, S. C., & Sons, Inc.: *See—*
Yoho, Clayton W., 3,463,855.
Johnson, Sarah A. Means to retain food and drink items at their prepared temperatures. 3,481,154, 12-2-69, Cl. 60-439.
Johnson Service Company: *See—*
Corbell, Paul I., 3,470,554.
Holloway, Thomas M., 3,461,896.
Kuczkowski, Frank A.; and Laakaniemi, Richard N., 3,469,592.
Smith, Walter J.; and Parker, Rienzi B., 3,434,348.
Strawn, Charles F., 3,424,985.
Thoma, Paul E., 3,440,881.
Thoma, Paul E., 3,458,845.
Thoma, Paul E., 3,461,723.
Wolf, James M., 3,425,006.
Johnson, Seward R.: *See—*
Ricketts, Colin J.; Bodnar, Andrew J.; Braithwaite, Frederick T.; Johnson, Seward R.; and Wheeler, Ernest E.,3,484,549.
Johnson, Sigurd W., to RCA Corporation. Automatic color electrophotographic apparatus. 3,467,468, 9-16-69, Cl. 355-4.
Johnson, Stanley O. Rotary engine. 3,479,995, 11-25-69, Cl. 123-11.
Johnson, Stuart E., to Carrier Corporation. Control of absorption refrigeration systems. 3,452,552, 7-1-69, Cl. 62-141.
Johnson, Sylvia Jennie: *See—*
McCormick, Jerry Robert Daniel; Johnson, Sylvia Jennie; and Sjolander, Newell Oscar,3,433,710.
Johnson, Theodore A.: *See—*
Wah, Joe M.; and Johnson, Theodore A.,3,474,582.
Johnson, Theodore W.; Kalt, Charles G.; and Martin, Jacob H., to Sprague Electric Company. Thermal print head. 3,478,191, 11-11-69, Cl. 219-216.
Johnson, Theodore W.; and Siivola, Ralph. Educational playhouse. 3,477,184, 11-11-69, Cl. 52-105.
Johnson, Thomas L.: *See—*
De Serre, Charles G.; and Johnson, Thomas L.,3,476,920.
Johnson, Thor E., to MJB Company. Tapered, stacking and nesting can. 3,425,382, 2-4-69, Cl. 113-120.
Johnson, Tilden W. Safety wheel rim and buffer therefor. 3,435,872, 4-1-69, Cl. 152-158.
Johnson, Timothy N.: *See—*
Birkelo, Einar P.; and Johnson, Timothy N.,3,423,504.
Johnson, Tom W.; Stropkay, Edward J.; and White, James D., to Sajar Plastics, Inc. Safety hat suspension. 3,430,260, 3-4-69, Cl. 2-3.
Johnson, Vedna O., Jr. Turkey caller. 3,419,996, 1-7-69, Cl. 46-189.
Johnson, Veiga. Plant stakes. 3,447,263, 6-3-69, Cl. 47-47.
Johnson, Victor E., to Pitney-Bowes, Inc. Flap turning device. 3,438,172, 4-15-69, Cl. 53-38.
Johnson, Waldo O., to Georgia-Pacific Corporation, mesne. Tilt window assembly with balance guides. 3,461,608, 8-19-69, Cl. 49-161.
Johnson, Waldo O.; and Shacklette, James E., to Weather-Seal, Inc. Controlled position sliding door, window, panel or the like. 3,442,051, 5-6-69, Cl. 49-414.
Johnson, Wallace J. S., to Up-Right, Inc. Multiple-dwelling structure. 3,479,781, 11-25-69, Cl. 52-169.
Johnson, Wallace J. S.; and Fisher, Robert E., to Up-Right, Inc. Scaffold. 3,454,131, 7-8-69, Cl. 182-115.
Johnson, Wallace J. S.; and Fisher, Robert E., to Up-Right, Inc. Apparatus for harvesting fruit. 3,460,327, 8-12-69, Cl. 56-328.
Johnson, Wallace J. S.; and Fisher, Robert E., to Up-Right, Inc. Supporting device. 3,469,343, 9-30-69, Cl. 47-46.
Johnson, Wallace J. S.; Fisher, Robert E.; and Claxton, Gerald L., to Up-Right, Inc. Pneumatic nozzle assembly for harvesting grapes and berries. 3,420,046, 1-7-69, Cl. 56-330.

Johnson, Walter E.: *See—*
Dunlap, Charles K., Jr.; Johnson, Walter E.; and Harper, William M.,3,477,631.
Johnson, Walter P., III, to Mark Products, Inc. Spring suspension for a low-frequency geophone. 3,451,040, 6-17-69, Cl. 340-17.
Johnson, Wayne R., to United Control Corporation, mesne. Color television recording system. 3,440,339, 4-22-69, Cl. 178-5.2
Johnson, Wayne R.; and Jorgensen, Finn, to United Control Corporation, mesne. Magnetic recording head with bias applied to the gap spacer. 3,467,789, 9-16-69, Cl. 179-100.2
Johnson, Wesley R., to Sperry Rand Corporation. Gated magnetic recording head amplifier. 3,438,055, 4-8-69, Cl. 346-74.
Johnson, William C.: *See—*
Raphael, Thomas; and Johnson, William C.,3,476,589.
Johnson, William E., to Owens-Illinois, Inc. Electrical printing process using an opposing field. 3,420,168, 1-7-69, Cl. 101-129.
Johnson, William E., to Owens-Illinois, Inc. Electrical printing apparatus using screen with thick coating to define image. 3,442,207, 5-6-69, Cl. 101-114.
Johnson, William E., to Owens-Illinois, Inc. Electrical printing methods and apparatus for decorating cylindrical articles. 3,460,468, 8-12-69, Cl. 101-40.
Johnson, William E.; and St. John, Douglas F., to Owens-Illinois, Inc. Methods and apparatus for electrical printing. 3,473,467, 10-21-69, Cl. 101-114.
Johnson, William F.: *See—*
Paul, Kenneth V.; and Johnson, William F.,3,435,722.
Johnson, William L., to Abrasive Products, Inc. Dimensionally stable flexible abrasive sheet material. 3,469,958, 9-30-69, Cl. 51-297.
Johnson, William R. Electrode assembly for skin contact. 3,474,775, 10-28-69, Cl. 128-2.1
Johnson Wire Works Limited, The: *See—*
Buchanan, John G., 3,446,702.
Johnson-Carper Furniture Company, Incorporated: *See—*
Rowe, Lacy A., 3,428,304.
Johnson-Williams, Inc.: *See—*
Johnson, Kenneth W., 3,438,738.
Johnsson, Ellen E.: *See—*
Lindquist, Carl Richard, 3,473,710.
Johnsson, Nils Gustav, to Aktiebolaget Gotaverken. Method and means for casting of bearing metal to bearings. 3,467,169, 9-16-69, Cl. 64-98.
Johnsson, Sven Erik. Vertically adjustable shelving assembly. 3,422,775, 1-21-69, Cl. 108-109.
Johnston, Alexander W. Revolving liquid valve. 3,467,128, 9-16-69, Cl. 137-171.
Johnston, Bruce R.: *See—*
Hagadorn, Marold Weston; and Johnston, Bruce R.,3,431,615.
Johnston, Carl M.: *See—*
Johnston, Ethel P., 3,470,023.
Johnston, Chester C., to Phillips Petroleum Company. Cutting and heat sealing thermoplastic film. 3,438,834, 4-15-69, Cl. 156-515.
Johnston, Chester C.; and Huddleston, Thomas J., to Phillips Petroleum Company. Combustible article or candle. 3,428,410, 2-18-69, Cl. 431-291.
Johnston, David B. R.; Patchett, Arthur A.; and Windholz, Thomas B., to Merck & Co., Inc. production thereof. 3,487,076, 12-30-69, Cl. 260-239.55
Johnston, Donald L., 1/2 to Strouse, Leland. Sunshade attachment for eyeglasses. 3,427,098, 2-11-69, Cl. 351-47.
Johnston, Donald S. Process for producing fish steaks. 3,433,647, 3-18-69, Cl. 99-111.
Johnston, Edward J., to International Harvester Company. Hay conditioner roll arrangement. 3,431,710, 3-11-69, Cl. 56-1.
Johnston Enterprises, Inc.: *See—*
Johnston, Mack S., 3,422,448.
Johnston, Mack S., 3,435,997.
Johnston, Mack S., 3,438,553.
Johnston, Mack S., 3,439,844.
Johnston, Ethel P., 1/2 to Johnston, Carl M. Method of cleaning exterior surfaces. 3,470,023, 9-30-69, Cl. 134-29.
Johnston, Everett E., to Esco Elevators, Inc. Hydraulic elevator control systems. 3,438,398, 4-15-69, Cl. 137-608.
Johnston, Frank C.: *See—*
Giger, Walter, Jr.; and Johnston, Frank C.,3,439,309.
Johnston, Frederic Alan: *See—*
Van Blaricom, Lloyd Eugene; and Johnston, Frederic Alan,3,431,202.
Johnston, George F., to General Electric Company. Frame device with a strip for removing broken glass fragments and sealing material. 3,430,394, 3-4-69, Cl. 52-127.
Johnston, Gerald T.; Fleming, Joseph T.; and Boyd, Robert L., to Ramsey Controls, Inc. Self-commutating inverter. 3,465,233, 9-2-69, Cl. 321-45.
Johnston, Glenn E.; and Windsor, Meredith M., to Star Cutter Company. Fluid manifold for electrical discharge machining apparatus. 3,441,705, 4-29-69, Cl. 219-69.
Johnston, Henry E.; and Simmons, Robert C., to Philco-Ford Corporation. Electrical apparatus. 3,445,803, 5-20-69, Cl. 339-17.
Johnston, Howard T., Jr.: *See—*
Carroll, William C.; and Johnston, Howard T., Jr.,3,479,036.
Johnston, Jack F.: *See—*
Huber, Kenneth J.; Johnston, Jack F.; Nissen, Edward K.; and Pourie, De Witt R.,3,424,613.
Johnston, James David, to Pfizer, Chas., & Co., Inc. Schiff bases of 2-formylquinoxaline 1,4-dioxides as growth promoters and systemic and non-systemic infection control agents in animals. 3,433,871, 3-18-69, Cl. 424-250.
Johnston, James David, to Pfizer, Chas., & Co., Inc.7,8,9,10-Tetrahydro-6H-cyclohepta [b] quinoxaline-5,11-dioxides. 3,471,492, 10-7-69, Cl. 260-250.
Johnston, James David, to Pfizer, Chas., & Co., Inc.Preparation of quinoxaline-N,N'-dioxides. 3,474,097, 10-21-69, Cl. 260-250.
Johnston, James David, to Pfizer, Chas., & Co., Inc. 1,2,3,4-Tetrahydrophenazine-5,10-dioxides as growth promoting agents. 3,480,713, 11-25-69, Cl. 424-250.
Johnston, James David, to Pfizer, Chas., & Co., Inc. Polymethylene quinoxaline dioxides. 3,485,836, 12-23-69, Cl. 260-250.
Johnston, James D., to Pfizer, Chas., & Co., Inc. Novel carbazates. 3,479,343, 11-18-69, Cl. 260-240.
Johnston, James D.; and Giraitis, Albert P., to Ethyl Corporation. Method for preparing alkali metal borohydrides. 3,459,514, 8-5-69, Cl. 23-362.
Johnston, James D.; and Sims, Leslie L., to Ethyl Corporation. Aluminum alkoxide process for preparing tertiary amines. 3,476,807, 11-4-69, Cl. 260-583.
Johnston, James R. Coupling device. 3,427,691, 2-18-69, Cl. 24-73.
Johnston, James R. Fluid line coupler. 3,435,848, 4-1-69, Cl. 137-614.04
Johnston, James R. Fluid line coupler. 3,454,047, 7-8-69, Cl. 137-614.04
Johnston, James S., to Balfour, Henry, and Company Limited. Film molecular stills and evaporators. 3,428,106, 2-18-69, Cl. 159-6.
Johnston, James Stewart, to Rosemount Engineering Company Limited. Chart recorder using a thread marker. 3,430,257, 2-25-69, Cl. 346-112.
Johnston, James Stewart, to Rosemount Engineering Company Limited. Resistance comparison means having a pair of rectifying circuits connected across a low frequency signal source. 3,441,845, 4-29-69, Cl. 324-62.
Johnston, James Stewart, to Rosemount Engineering Company Limited. Fluid flow measuring apparatus. 3,465,586, 9-9-69, Cl. 73-228.
Johnston, Lawrence M., Jr., to International Harvester Company. Self-energizing synchronizing clutch. 3,426,874, 2-11-69, Cl. 192-38.
Johnston, Lawrence M., Jr.; and Dowler, Robert L., to International Harvester Company. Gear shift lever assembly with energy absorption characteristic. 3,470,763, 10-7-69, Cl. 74-525.
Johnston, Mack S., to Johnston Enterprises, Inc. Tapping device for beer kegs and the like. 3,422,448, 1-14-69, Cl. 222-400.7
Johnston, Mack S., to Johnston Enterprises, Inc. Beer tapping device. 3,435,997, 4-1-69, Cl. 222-400.7
Johnston, Mack S., to Johnston Enterprises, Inc. Tapping device for beer kegs and the like. 3,438,553, 4-15-69, Cl. 222-400.7
Johnston, Mack S., to Johnston Enterprises, Inc. Tapping device for beer kegs and the like. 3,439,844, 4-22-69, Cl. 222-398.
Johnston, Nelson G., to Dow Chemical Company, The. Method for decreasing friction in mopping. 3,449,255, 6-10-69, Cl. 252-117.
Johnston, Norris, to Shirley, Kirk R. Self-contained downhole parameter signalling system. 3,437,992, 4-8-69, Cl. 340-18.
Johnston, Paul R. Apparatus for manufacturing variegated ice cream. 3,442,227, 5-6-69, Cl. 107-1.
Johnston, Philip W., to Tracor, Inc. Vision testing device. 3,486,813, 12-30-69, Cl. 351-17.
Johnston, Raymond; Moran, Edwin G.; and Clark, Ralph J., to Continental Motors Corporation. Crankcase breather system and structure. 3,477,413, 11-11-69, Cl. 123-1.
Johnston, Reed H.: *See—*
Glaser, Peter E.; Johnston, Reed H.; and Jolkovski, Robert M.,3,425,060.
Johnston, Richard P.: *See—*
Baumgardner, Arthur R.; Johnston, Richard P.; Martini, William R.; and White, Maurice A.,3,484,616.
Johnston, Richmond P.: *See—*
Goodman, Ernest A.; and Johnston, Richmond P.,3,440,586.
Johnston, Robert E.: *See—*
Milne, James A.; and Johnston, Robert E.,3,452,920.
Johnston, Robert F., to Bell & Howell Company. Continuous film feed projection system. 3,459,471, 8-5-69, Cl. 352-105.
Johnston, Robert K., to Phillips Petroleum Company. Selective hydrogenation of acetylenic compounds. 3,424,809, 1-28-69, Cl. 260-677.
Johnston, Roy C.: *See—*
Brock, Fred A.; and Johnston, Roy C.,3,437,170.
Davis, Billy W.; and Johnston, Roy C.,3,437,171.
Johnston, Samuel S., to National Steel Corporation. Anode structure for continuous strip electroplating. 3,445,371, 5-20-69, Cl. 204-206.
Johnston, Stephen L., to United States of America, Army. Frequency multiplication method and system. 3,487,290, 12-30-69, Cl. 321-60.

Johnston, Thomas Joseph, to Reynolds Metals Company. Alumina reduction cell. 3,475,314, 10-28-69, Cl. 204-243.
Johnston, Thomas Jseph, to Reynolds Metals Company. Reduction of aluminum oxide by elemental silicon. 3,434,824, 3-25-69, Cl. 75-68.
Johnston, Walker F., Jr.: *See*—
Strong, Erwin R., Jr.; Johnston, Walker F., Jr.; and Goodman, Robert C.,3,449,243.
Johnston, William H., Jr. Apparatus and methods for treating animals. 3,457,923, 7-29-69, Cl. 128-374.
Johnston, William K.: *See*—
Grgurich, Donald A.; Johnston, William K.; and Weissman, Walter,3,446,029.
Johnston, William P., Jr., 40% to Rumsey, David R. Packing extraction tool. 3,443,460, 5-13-69, Cl. 81-8.1
Johnston, William S. Winding wire for an open face roll. 3,445,332, 5-20-69, Cl. 162-357.
Johnston, William V., to General Electric Company. Heated static port apparatus. 3,443,058, 5-6-69, Cl. 219-201.
Johnstone, Paul L., to Hercules Incorporated. Method of producing a needled, nonwoven fibrous structure. 3,428,506, 2-18-69, Cl. 156-148.
Johnstone, Paul L., to Hercules Incorporated. Electrical capacitors. 3,430,116, 2-25-69, Cl. 317-258.
Johnstone, Paul L., to Hercules Incorporated. Method of making non-woven fabric from plies of plastic. 3,484,916, 12-23-69, Cl. 28-72.2
Johnstone, Theodore H.; and Meyer, Barthold F., to General Motors Corporation. Six-way rotary inclined plane centering switch. 3,483,337, 12-9-69, Cl. 200-6.
Joichi, Lloyd H., to La Salle Machine Tool, Inc. Automatic load and unload apparatus. 3,428,190, 2-18-69, Cl. 214-1.
Joichi, Lloyd H., to La Salle Machine Tool Inc. Method of machining external surfaces on a gear case. 3,447,406, 6-3-69, Cl. 82-1.
Joichi, Lloyd H., to La Salle Machine Tool, Inc. Machine tool apparatus. 3,447,658, 6-3-69, Cl. 198-19.
Joichi, Lloyd H., to La Salle Machine Tool, Inc. Automatic tool resetting apparatus. 3,449,986, 6-17-69, Cl. 82-2.
Joichi, Paul T.: *See*—
Sattler, Robert I.; Joichi, Paul T.; and van den Kieboom, Johannes L.,3,473,269.
Jojima, Teruomi: *See*—
Tamura, Saburo; Takematsu, Tetsuo; Oyamada, Kozo; and Jojima, Teruomi,3,427,146.
Jokay, Louis: *See*—
Mitan, Frank J.; and Jokay, Louis,3,427,951.
Jokinen, Robert E.: *See*—
Robinson, Maurice E.; and Jokinen, Robert E.,3,442,189.
Jokl, Rudolf: *See*—
Marcik, Milos; Jokl, Rudolf; Kubinek, Jiri; and Ritschl, Evzen,3,447,519.
Jolette, Gerald P., to Brundage Company, The. Blower wheel center plate with bent tabs for securing blades in place. 3,450,337, 6-17-69, Cl. 230-134.
Jolkovski, Robert M.: *See*—
Glaser, Peter E.; Johnston, Reed H.; and Jolkovski, Robert M.,3,425,060.
Jolles, Zvi Enrico, to Berk Limited. Use of brominated salicylanilide as a fire retardant for polymeric materials. 3,432,450, 3-11-69, Cl. 260-2.5
Jolles, Zvi Enrico, to Berk, F. W., & Company Limited. Polymers containing brominated diphenylsulfides as fire retardants. 3,487,040, 12-30-69, Cl. 260-37.
Jolley, Gordon B., to Esso Research and Engineering Company. Volumetric metering device for particulate solids. 3,455,490, 7-15-69, Cl. 222-193.
Jolliffe, Michael J. A. H.: *See*—
Zaldastani, Othar; and Jolliffe, Michael J. A. H.,3,465,484.
Jolly, James Duncan. Roller fluid applicator. 3,427,115, 2-11-69, Cl. 401-219.
Jolly, Jean: *See*—
Joly, Robert; Warnant, Julien; Jolly, Jean; Prost-Marechal, Jacques; Bucourt, Robert; and Tessier, Jean,3,424,745.
Jolly, Samuel E., to Sun Oil Company. Method of annealing aluminum. 3,459,605, 8-5-69, Cl. 148-20.6
Jolly Toys, Inc.: *See*—
Schneider, Franz P., 3,453,772.
Joly, Jean L., to La Telemecanique Electrique. Terminal piece for the connection of electrical cables. 3,450,828, 6-17-69, Cl. 174-75.
Joly, Jean Louis Andre, to La Telemecanique Electrique. Electrical connection terminal. 3,470,526, 9-30-69, Cl. 339-246.
Joly, Jean, to Societe Rhodiaceta. Apparatus for fluid treating filamentary materials. 3,482,294, 12-9-69, Cl. 28-1.
Joly, Jean; and Chezaud, Jean Claude, to Societe Rhodiaceta. Process for crimping thermoplastic yarns. 3,438,105, 4-15-69, Cl. 28-72.
Joly, Robert; Warnant, Julien; and Guillemette, Armand. Process for the preparation of 17-ethynyl-19-nor steroids. 3,458,540, 7-29-69, Cl. 260-397.4
Joly, Robert; Warnant, Julien; Jolly, Jean; Prost-Marechal, Jacques; Bucourt, Robert; and Tessier, Jean, to Roussel-UCLAF. Novel process for the preparation of trienic steroid derivatives. 3,424,745, 1-28-69, Cl. 260-239.5
Joly, Robert: *See*—
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.
Jonaitis, Charles W.: *See*—
Sebba, Felix; Jonaitis, Charles W.; Ray, Charles L.; and Baarson, Robert E.,3,476,553.
Jonas, Clarence F. Holding clip pressurized fluid spray container. 3,450,313, 6-17-69, Cl. 222-402.13
Jonas, Gilbert F., to Genesco, Inc. Shoe manufacture. 3,442,032, 5-6-69, Cl. 36-2.5
Jonas, Gilbert F., to Genesco, Inc. Method of stiffening selected areas of apparel components. 3,467,976, 9-23-69, Cl. 12-146.
Jonas, Gilbert F., to Genesco, Inc. Shoe manufacture. 3,481,820, 12-2-69, Cl. 161-39.
Jonas, John J., to National Dairy Products Corporation. Method for treating polysaccharides in the presence of an oxygen accepting agent. 3,476,741, 11-4-69, Cl. 260-209.
Jonas, Victor H., to Honeywell Inc. Unit record file separator. 3,465,879, 9-9-69, Cl. 209-80.5
Jonas, Walter M., to Sobel Metal Products Inc. Attachment of plastic fasteners to fabric articles. 3,448,464, 6-10-69, Cl. 2-336.
Jonas, Walter; and Pfund, Adolf, to Sobel Industries Inc. Paper cup dispenser. 3,435,988, 4-1-69, Cl. 221-310.
Jonason, Karl Gunnar, to Aktiebolaget Svenska Metallverken. Arrangement for manufacturing metal strip. 3,442,107, 5-6-69, Cl. 72-111.
Jonason, Karl Gunnar, to Aktiebolaget Svenska Metallverken. Method for embossing repeated patterns in strip material, preferably metal strip and means for carrying out the method. 3,465,568, 9-9-69, Cl. 72-338.
Joncas, Armand. Cigarette lighter and dispenser. 3,468,454, 9-23-69, Cl. 221-147.
Jone, Paul Y.: *See*—
Allison, Cecil Jay, Jr.; Jone, Paul Y.; and Jacobson, Paul E.,3,448,005.
Fraser, Richard S.; and Jone, Paul Y.,3,476,585.
Jonell, Per Olof; and Nilsson, Sven Melker. Method and machine for the manufacture of lengthened objects of concrete. 3,423,492, 1-21-69, Cl. 264-70.
Jones , Ada E.: *See*—
Jones, Leland L., 3,483,857.
Jones & Laughlin Steel Corporation: *See*—
Berry, George L., 3,479,853.
Butler, John F., 3,457,784.
Gerding, Charles Christian, 3,439,519.
Gimigliano, Joseph P., 3,455,730.
Gimigliano, Joseph P.; and Butler, John Francis, 3,458,347.
Hofmeister, Konrad J.; and Olcsan, Louis J., Jr., 3,428,813.
Hofmeister, Konrad J.; and Sylvester, Robert A., 3,428,817.
Otto, John C.; and Gruver, Albert L., 3,457,718.
Palmer, Charles E., 3,423,009.
Palmer, Charles E., 3,426,936.
Palmer, Charles E., 3,434,399.
Palmer, Charles E., 3,445,027.
Palmer, Charles E., 3,448,735.
Rothstein, Paul; Shannon, Castle; and Batz, Walter, 3,428,534.
Jones & Yandell: *See*—
Jones, Hermit A., 3,449,778.
Jones, Alan B.: *See*—
Jones, Stanley A.; and Smith, Paul C., 3,439,662.
Jones, Alan Conway, to Imperial Chemical Industries Limited. Collection of yarns by over-end winding. 3,451,208, 6-24-69, Cl. 57-156.
Jones, Alan Richardson: *See*—
Hobbs, James C., II; Jones, Alan Richardson; and Schultz, Eugene L.,3,446,400.
Jones, Alan Richardson; and Schultz, Eugene L., to American Hospital Supply Corporation, mesne. Diluter with drop retractor. 3,484,024, 12-16-69, Cl. 222-409.
Jones, Alan Thomas: *See*—
Lane, Charles Anthony; and Jones, Alan Thomas,3,460,715.
Jones, Alan Victor: *See*—
Buckerridge, Edward Thomas; Jones, Alan Victor; and Rayward, William Clifford,3,478,181.
Jones, Alan, to Plessey-UK Limited. Magnetic information storage matrices. 3,445,829, 5-20-69, Cl. 340-174.
Jones, Alec John, to T. I. (Group Services) Limited. Mandrels for use in the production of tubes. 3,452,584, 7-1-69, Cl. 72-466.
Jones, Alec John, to S.T.D. Services Limited. Roll housing for a metal working machine. 3,456,476, 7-22-69, Cl. 72-237.
Jones, Alfred Illtyd Webber: *See*—
Astley, Harold Trevor; and Jones, Alfred Illtyd Webber,3,427,700.
Jones, Alfred Illtyd Webber; and Brown, Trevor Paul, to Lockspike Limited. Insulated rail fastener. 3,463,394, 8-26-69, Cl. 238-338.

Jones, Alfred W.; and Cervenka, Frank E. Randomly operated advertisement and chance amusement device. 3,458,201, 7-29-69, Cl. 273-138.
Jones, Allen H.; and Reed, Edward F., to Sly, W. W., Manufacturing Co., The. Dust collecting apparatus. 3,453,810, 7-8-69, Cl. 55-294.
Jones, Alun Angus; and Rogers, Eric, to Monsanto Chemicals Limited. Composition containing rubber chemicals. 3,446,750, 5-27-69, Cl. 252-402.
Jones, Alun R.; and Gedcke, Dale A., to Atomic Energy of Canada Limited. High voltage supply for radiation detecting equipment. 3,428,807, 2-18-69, Cl. 250-83.6
Jones, Arthur Llewelyn: *See*—
Cuckson, Eric Engel; and Jones, Arthur Llewelyn,3,445,915.
Jones, Barry David; and Sly, James Christopher Phillips, to Bridge Chemicals Limited. Derivatives of cyclopentanetetracarboxylic acid. 3,455,990, 7-15-69, Cl. 260-468.
Jones, Benjamin B., to Savannah Sugar Refining Corporation. Package stabilizer. 3,447,482, 6-3-69, Cl. 104-172.
Jones, Benjamin F., Sr., to Young Electric Sign Company. Elevator for sign. 3,426,868, 2-11-69, Cl. 182-129.
Jones, Bessie M.: *See*—
Jones, Leland L., 3,483,857.
Jones, Billy J.; and Berry, Rodney Cameron. Kneepad. 3,465,365, 9-9-69, Cl. 2-24.
Jones, Brian L., to Westinghouse Electric Corporation. Plural stage transistor amplifier with D.C. feedback. 3,469,200, 9-23-69, Cl. 330-15.
Jones, Brian L., to Westinghouse Electric Corporation. Plural channel amplifier system having variable feedback means. 3,487,324, 12-30-69, Cl. 330-30.
Jones, Budd. Holder for spools of thread and the like. 3,473,756, 10-21-69, Cl. 242-137.
Jones, Burton A.; and Fidler, Larry E., to United Aircraft Corporation. Aerodynamic gas valve tab control. 3,452,769, 7-1-69, Cl. 137-81.5
Jones, Byford A., to Layne & Bowler, Inc. Method and apparatus for use in gravel packing wells. 3,428,128, 2-18-69, Cl. 166-278.
Jones, Carol J. Method of patching car bodies. 3,470,048, 9-30-69, Cl. 156-94.
Jones, Cecil B. Self-aligning bearing-staking tool. 3,444,606, 5-20-69, Cl. 29-200.
Jones, Cecil D.: *See*—
Thom, Wenzel, 3,447,273.
Jones, Cecil Henry: *See*—
Chetter, John; and Jones, Cecil Henry,3,442,763.
Hardy, Harold Kenyon; and Jones, Cecil Henry,3,440,849.
Jones, Charles A., III: *See*—
Macfarlane, Benedict; and Jones, Charles A., III,3,463,725.
Jones, Charles B., Jr. Peristaltic pumping system. 3,429,266, 2-25-69, Cl. 103-44.
Jones, Charles B., Jr. Peristaltic pump. 3,429,273, 2-25-69, Cl. 103-149.
Jones, Charles B., Jr. Peristaltic pump. 3,431,864, 3-11-69, Cl. 103-149.
Jones, Charles E.; and Henry, William C., said Jones assor. of 25% to Thru-Way Equipment Company. Refuse collection vehicle. 3,476,273, 11-4-69, Cl. 214-82.
Jones, Charles R.: *See*—
Barlow, Jesse P.; Jones, Charles R.; and Kerr, James L.,3,467,948.
Hermes, Walter L.; and Jones, Charles,3,486,326.
Jones, Charles, to Curtiss-Wright Corporation. Compensated seal structure. 3,456,626, 7-22-69, Cl. 123-8.
Jones, Charles, to Curtiss-Wright Corporation. Rotary engine corrected for operating deviations. 3,465,729, 9-9-69, Cl. 123-8.
Jones, Charles, to Curtiss-Wright Corporation. Seal structure for rotary mechanisms. 3,482,551, 12-9-69, Cl. 123-8.
Jones, Charles; and Hermes, Walter, to Curtiss-Wright Corporation. Compensated seal structure for rotary mechanisms. 3,456,625, 7-22-69, Cl. 123-8.
Jones, Charley S.: *See*—
Storment, Joseph E.; Jones, Charley S.; and Miller, Norman G.,3,443,391.
Jones, Charlie E., Jr.: *See*—
Hilton, Albert R.; and Jones, Charlie E., Jr.,3,426,201.
Jones, Clarence O., Jr., to Niagara Machine & Tool Works. Multiple stroke depth selector for hydraulic press brakes. 3,485,071, 12-23-69, Cl. 72-26.
Jones, Claude K.; and Martin, Stuart W., to General Electric Company. Glow discharge apparatus. 3,423,562, 1-21-69, Cl. 219-121.
Jones, Claude K.; and Martin, Stuart W., to General Electric Company. Power supply for reducing arcing damage in glow discharge apparatus. 3,437,784, 4-8-69, Cl. 219-121.
Jones, Clevoe D.: *See*—
Gregorich, Henry L.; Jones, Clevoe D.; and Phelps, Marion E.,3,477,250.
Jones, Clifford L.: *See*—
Sutton, Ralph O.; and Jones, Clifford L.,3,455,248.
Jones, Clifford M., to General Electric Company. Oscillator for a battery operated clock. 3,454,856, 7-8-69, Cl. 318-138.
Jones, Clifford M.; and Harnden, John D., Jr., to General Electric Company. Traveling sign controlled by logic circuitry and providing a plurality of visual display effects. 3,432,846, 3-11-69, Cl. 340-339.
Jones, Clifford W.: *See*—
Fischer, Donald G.; and Jones, Clifford W.,3,433,270.
Jones, Clifton M.: *See*—
Fairchild, Sherman Mills; and Jones, Clifton M.,3,452,528.
Jones, Clintford R.: *See*—
Krock, Richard H.; and Jones, Clintford R.,3,456,322.
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R.,3,438,751.
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R.,3,438,752.
Jones, Cordis W. Apparatus for forming continuous pre-stressed concrete slabs. 3,475,800, 11-4-69, Cl. 25-41.
Jones, Cordis W.; and Hinman, Clinton R., to Hastings Dynamold Corporation. Hydraulic drive system. 3,433,123, 3-18-69, Cl. 91-36.
Jones, Curtis C., Jr., to General Electric Company. Polycarbonate film compositions exhibiting a low static coefficient of friction. 3,424,703, 1-28-69, Cl. 260-18.
Jones, Dallas E.: *See*—
Roberts, Jeremy Brown; Jones, Dallas E.; and Badran, Adnan M.,3,440,143.
Jones, David Aubrey; Davis, Alfred C.; and Gaunt, Eric F., to Imperial Tabacco Company (of Great Britain and Ireland), Limited, The. Cigarettes and paper therefor. 3,422,819, 1-21-69, Cl. 131-15.
Jones, David Colin, to Imperial Chemical Industries Limited. Process for the reductive dimerization of α,β-olefinic compounds. 3,455,986, 7-15-69, Cl. 260-465.8
Jones, David L., Jr., to General Motors Corporation. Pulse wiper control. 3,421,173, 1-14-69, Cl. 15-250.12
Jones, David L., Jr., to General Motors Corporation. Fluid pressure operated windshield wiper system. 3,448,481, 6-10-69, Cl. 15-250.3
Jones, David L., Jr., to General Motors Corporation. Windshield wiper control. 3,448,483, 6-10-69, Cl. 15-250.12
Jones, David L., Jr., to General Motors Corporation. Oil filter indicating system. 3,482,696, 12-9-69, Cl. 210-90.
Jones, David L., Jr.: *See*—
Carpenter, Keith H.; and Jones, David L., Jr.,3,422,335.
Jones, David P.: *See*—
Lewis, Gerald F.; and Jones, David P.,3,431,019.
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J.,3,439,932.
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J.,3,442,529.
Jones, Dennis A.: *See*—
Heavilon, Jerry L.; Jones, Dennis A.; and Thomas, Barton A.,3,421,587.
Jones, Dennis J.: *See*—
Recio, Orlando; Holloway, Richard A.; Lancaster, Ronald L.; Jones, Dennis J.; and Motley, George R.,3,437,993.
Jones, Derek: *See*—
Guyon, Andre J.; Jones, Derek; and Snyder, Michael D.,3,439,960.
Jones, Derrick A., to Minnesota Mining and Manufacturing Company. Shutter leaf control system. 3,478,664, 11-18-69, Cl. 95-59.
Jones, Derrick Fleet: *See*—
Elson, George Wynne; Howe, Ralph; and Jones, Derrick Fleet,3,483,083.
Jones Division, Beloit Corporation: *See*—
Cormack, Alexander D., 3,449,206.
Eklund, Henrik J., 3,422,450.
Jones, Donald Allen, to Thermo Radiant Ovens Pty. Ltd. Apparatus for removing articles from containers by suction. 3,433,375, 3-18-69, Cl. 214-309.
Jones, Donald P.: *See*—
Micco, Leopoldo A.; and Jones, Donald P.,3,449,487.
Jones, Donald W., to Westinghouse Electric Corporation. Position responsive switching apparatus. 3,470,431, 9-30-69, Cl. 318-18.
Jones, Donnie Roland, to Bowles Engineering Corporation. Liquid level sensor. 3,467,122, 9-16-69, Cl. 137-81.5
Jones, Donnie Roland, to Bowles Engineering Corporation. Vortex proximity sensor. 3,481,180, 12-2-69, Cl. 73-37.5
Jones, Donnie Roland; and Sowers, Edwin U., III, to Bowles Engineering Corporation. Core bleed for vortex readout device. 3,468,327, 9-23-69, Cl. 137-81.5
Jones, Donnie R., to Bowles Engineering Corporation. Method and apparatus for linearizing fluid amplifier gain. 3,468,323, 9-23-69, Cl. 137-13.
Jones, Duane A., to General Mills, Inc. Enzymatic breaker system for tamarind polysaccharide. 3,480,511, 11-25-69, Cl. 195-31.
Jones, Ebert S. Feed mechanism for spooled film material. 3,473,752, 10-21-69, Cl. 242-75.5
Jones, Eddie M., Jr., to Meck-Pick, Inc. Fruit harvesting head. 3,431,715, 3-11-69, Cl. 56-328.
Jones, Edgar J., to Instron Corporation. Shear load cell. 3,421,132, 1-7-69, Cl. 338-5.

Jones, Edmund A.: *See—*
Davis, Hugh J.; and Jones, Edmund A.,3,431,905.
Jones, Edward B. Flutter wing for a sailplane. 3,477,664, 11-11-69, Cl. 244-16.
Jones, Edward M. T.: *See—*
Tanner, Robert L.; Jones, Edward M. T.; and Harris, Frank B., Jr.,3,465,343.
Jones, Edward M., to Baldwin, D. H., Company. Non-linear member. 3,425,052, 1-28-69, Cl. 340-347.
Jones, Edward M., to Baldwin, D. H., Company. Electronic organ system. 3,443,017, 5-6-69, Cl. 84-1.01
Jones, Edwin Kermit, to Universal Oil Products Company. Alkylaryl production. 3,432,567, 3-11-69, Cl. 260-671.
Jones, Edwin K., to Universal Oil Products Company. Process for aromatic alkylation and olefinic oligomerization. 3,437,705, 4-8-69, Cl. 260-671.
Jones, Egbert M.; and Thomas, Richard J., to United States of America, Atomic Energy Commission. Electrical load controller. 3,421,015, 1-7-69, Cl. 307-34.
Jones, Elwyn David, to Canadian Industries Limited. Valve bag. 3,482,762, 12-9-69, Cl. 229-62.5
Jones, Elwyn David, to Canadian Industries Limited. Apparatus for forming gusseted tubing. 3,485,145, 12-23-69, Cl. 93-20.
Jones, Emil T., to Jones Precision Photo Finish, Inc. Strip film camera and method of operating same. 3,479,939, 11-25-69, Cl. 95-15.
Jones, Eric Harding. Continuous application of substances to travelling materials. 3,425,861, 2-4-69, Cl. 117-102.
Jones, Eric Harding. Dispensing apparatus. 3,426,688, 2-11-69, Cl. 103-85.
Jones, Eric Lindsay: *See—*
Hunt, Robert William; Jones, Eric Lindsay; and Bonner, Peter,3,420,988.
Menown, Hugh; and Jones, Eric,3,440,467.
Jones, Evan A., to Universal Oil Products Company. Hydrorefining of aromatic-containing hydrocarbon distillates. 3,470,086, 9-30-69, Cl. 208-209.
Jones, Evan A.: *See—*
Heinze, Walter W.; Jones, Evan A.; and Carson, Don B.,3,476,283.
Jones, Evan Islwyn. Linear material modification. 3,448,574, 6-10-69, Cl. 57-157.
Jones, Evan, to Henry Valve Company. Relief valve. 3,425,444, 2-4-69, Cl. 137-540.
Jones, Evan, to Henry Valve Company. Metering valve. 3,482,596, 12-9-69, Cl. 137-556.
Jones, Faber B., to Phillips Petroleum Company. Crosslinkable polysulfide polymers. 3,475,389, 10-28-69, Cl. 260-79.
Jones, Faber B., to Phillips Petroleum Company. Sulfolane (tetrahydrothiophene-1,1-dioxide) as solvent for polymerization of diamines and ureas. 3,476,709, 11-4-69, Cl. 260-77.5
Jones, Faber B., to Phillips Petroleum Company. Adhesives from olefinically unsaturated polyesters and polythiols. 3,479,323, 11-18-69, Cl. 260-75.
Jones, Faber B.; and Simpson, Billy D., to Phillips Petroleum Company. Preparation of liquid polysulfide polymers and their products. 3,423,374, 1-21-69, Cl. 260-79.
Jones, Francis T.; and Sworski, Thomas J., to Union Carbide Corporation. Hydrazine production. 3,434,949, 3-25-69, Cl. 204-157.1
Jones, Frank N., to Du Pont de Nemours, E. I., and Company. Hydrogenation of dicyanobutene with selected rhodium (1) catalysts and a basic promoter. 3,459,785, 8-5-69, Cl. 260-465.8
Jones, Frederick E.: *See—*
Knight, John V.; and Jones, Frederick E.,3,462,836.
Jones, Gene T.: *See—*
Brow, Orville J.; and Jones, Gene T.,3,421,711.
Jones, Geoffrey T.: *See—*
Kamborian, Jacob S.; Harriman, Allen C.; Jones, Geoffrey T.; and Vornberger, Karl F.,3,422,474.
Jones, Geraint, to Geistlich, Ed., Sohne AG fur Chemische Industrie. Antidepressant compositions containing diphenylpropylamine derivatives. 3,446,901, 5-27-69, Cl. 424-330.
Jones, Gerald W.; and Ross, Frank E., to Maytag Company, The. Automatic control circuit. 3,424,920, 1-28-69, Cl. 307-141.
Jones, Giffin D.: *See—*
Anderson, Robert E.; and Jones, Giffin D.,3,438,893.
Jones, Giffin D.; and McMillan, William J., to Dow Chemical Company, The. Foamable granule product with method of preparation and molding. 3,459,565, 8-5-69, Cl. 106-40.
Nowak, Robert M.; and Jones, Giffin D.,3,446,760.
Jones, Gordon H.; and Hosea, Everett E., to Giddings & Lewis, Inc. Precision locating means for machine tools. 3,465,615, 9-9-69, Cl. 74-816.
Jones, Gordon H.; and Moffatt, John G., to Syntex Corporation. 3'-Cyclic esters of 5'-deoxy-5'-(dihydroxyphos- phinylmethyl)-nucleosides. 3,446,793, 5-27-69, Cl. 260-211.5
Jones, Gordon H.; and Moffatt, John G., to Syntex Corporation. Novel ribo and lyxo nucleoside derivatives and a process for their preparation. 3,457,255, 7-22-69, Cl. 260-211.5
Jones, Gwilym Thomas; Moyse, James Albert; and Scott, Gerald, to Imperial Chemical Industries Limited. Process of treating textiles with polycondensates containing amide and ester groups. 3,455,734, 7-15-69, Cl. 117-138.8
Jones, Hallet D.: *See—*
Kauffman, Harry G.; and Jones, Hallet D.,3,428,081.
Jones, Harold A., to Fortin Plastics, Inc. Means for making curved optical and reflective surfaces. 3,422,495, 1-21-69, Cl. 18-47.
Jones, Harold L., to International Paper Company. Process of rosin sizing paper. 3,421,976, 1-14-69, Cl. 162-180.
Jones, Harry S. Method of shaping an aspheric lens. 3,454,686, 7-8-69, Cl. 264-1.
Jones, Harry S. Telescope image switching systems. 3,468,597, 9-23-69, Cl. 350-28.
Jones, Henry B.: *See—*
Bunn, Dorrance P., Jr.; Jones, Henry B.; and Nagle, Richard E.,3,433,733.
Bunn, Dorrance P., Jr.; Jones, Henry B.; and Nagle, Richard E.,3,448,037.
Jones, Hermit A., to Jones & Yandell. Adjustable water safety jacket. 3,449,778, 6-17-69, Cl. 9-341.
Jones, Howard S., Jr., to United States of America, Army. Multifrequency common aperture manifold antenna. 3,482,248, 12-2-69, Cl. 343-727.
Jones, Howard T.; and Nuckolls, Joe A., to General Electric Company. Constant current regulator with moving coil transformer. 3,440,520, 4-22-69, Cl. 323-6.
Jones, Iorwerth Llewelyn William: *See—*
Greenfield, Stanley; Jones, Iorwerth Llewelyn William; and Christopher Thomas,3,467,471.
Jones, James Byron: *See—*
Maropis, Nicholas; and Jones, James Byron,3,429,028.
Jones, James Byron, to Aeroprojects Incorporated. Transducer coupling system. 3,466,970, 9-16-69, Cl. 90-11.
Jones, James Dorroh: *See—*
Eldridge, Clare Wallace; Jones, James Dorroh; and Trunk, Junior George,3,449,900.
Jones, James H.: *See—*
Cragoe, Edward J., Jr.; and Jones, James H.,3,472,848.
Cragoe, Edward J., Jr.; and Jones, James H.,3,487,082.
Jones, James H.; and Cragoe, Edward J., Jr., to Merck & Co., Inc.1H-imidazo[4,5-b]pyrazin-2-ones and processes for their preparation. 3,461,123, 8-12-69, Cl. 260-250.
Jones, James O., to Sperry Rand Corporation. Weighted hole count check for punch card equipment. 3,422,250, 1-14-69, Cl. 235-61.7
Jones, Jan E.: *See—*
Heseltine, Donald W.; Jones, Jan E.; and Lincoln, Lewis L.,3,481,927.
Jones, Jean E.; and Kalenda, Norman W., to Eastman Kodak Company. Silver halide emulsions containing supersensitizing dye combinations. 3,432,302, 3-11-69, Cl. 96-104.
Jones, Jean E.; and Kalenda, Norman W., to Eastman Kodak Company. Silver halide emulsions containing dye combinations for supersensitization. 3,432,303, 3-11-69, Cl. 96-104.
Jones, Jean E.: *See—*
Gilman, Paul B.; Goffe, Charles A.; and Jones, Jean E.,3,446,619.
Rasch, Arthur A.; Jones, Jean E.; and Hodges, Wilbur C.,3,442,649.
Jones, Jerry M.: *See—*
Clark, Robert C.; and Jones, Jerry M.,3,441,739.
Jones, Jesse J. Weed puller and extractor. 3,443,830, 5-13-69, Cl. 294-50.7
Jones, Joel Grayson, to Conrac Corporation. Television high voltage regulator. 3,428,856, 2-18-69, Cl. 315-27.
Jones, John A. Trailer hitch for motorcycles. 3,430,983, 3-4-69, Cl. 280-402.
Jones, John B., Jr., to Battelle Development Corporation, The, mesne. Fluid distributor for vertical vessels. 3,432,348, 3-11-69, Cl. 134-42.
Jones, John E., Jr., to Fuel Research & Instrument Co. Firing control circuit. 3,437,902, 4-8-69, Cl. 320-1.
Jones, John Haskell, to Melpar, Inc. Plating process for printed circuit boards. 3,433,719, 3-18-69, Cl. 204-15.
Jones, John L.: *See—*
Carlson, Carl O.; Ives, Henry D.; and Jones, John L.,3,448,458.
Jones, John L., to Armour Pharmaceutical Company. Production of water soluble basic aluminum halide compound. 3,476,509, 11-4-69, Cl. 23-50.
Jones, John L.; and Rubino, Andrew M., to Armour Pharmaceutical Company. Methods of making alcohol soluble complexes of aluminum and preparations employing the complexes. 3,420,932, 1-7-69, Cl. 424-47.
Jones, John L.; and Rubino, Andrew M., to Armour Pharmaceutical Company. Method of making alcohol-soluble complexes of aluminum. 3,472,929, 10-14-69, Cl. 424-68.
Jones, John P., Jr., to Navigation Computer Corporation. High speed electronic keyboard assembly. 3,456,077, 7-15-69, Cl. 178-17.

Jones, John Paul, Jr., to Navigation Computer Corporation. Fast scan paper tape punch-readers and control systems therefor. 3,448,247, 6p3-69, Cl. 235-61.1

Jones, John Paul, Jr., to Navigation Computer Corporation. Asynchronous paper tape reader. 3,448,249, 6-3-69, Cl. 235-61.11

Jones, John Paul, Jr.: *See—*
Peroni, Peter A.; and Jones, John Paul, Jr.,3,462,719.
McGoogan, George D.; and Jones, John P.,3,425,256.

Jones, John P., to Navigation Computer Corporation. Sheet-handling apparatus. 3,424,452, 1-28-69, Cl. 271-29.

Jones, John R.: *See—*
Beebe, Raymond A.; and Jones, John R.,3,486,659.
Hambling, James Keith; and Jones, John Robert,3,457,321.
Hambling, James Keith; and Jones, John Robert,3,463,831.
Hambling, James Keith; and Jones, John Robert,3,465,056.
Hambling, James Keith; and Jones, John Robert,3,483,268.
Stern, Hugh Walter; and Jones, John Robert,3,446,866.

Jones, John T.; Ludt, William C.; and Kellogg, Hudson W., to Ethyl Corporation. Automatic antiknock rating and adjustment apparatus. 3,485,598, 12-23-69, Cl. 44-2.

Jones, John Willard, to Du Pont de Nemours, E. I., and Company. Zinc-coated polyimide products. 3,427,188, 2-11-69, Cl. 117-122.

Jones, John Willard, to Du Pont de Nemours, E. I., and Company. Low permeability transparent packaging films. 3,442,686, 5-6-69, Cl. 117-70.

Jones, Joseph R. Radiographic microfilm projection device. 3,477,784, 11-11-69, Cl. 353-81.

Jones, Joseph S.: *See—*
Herriott, Donald R.; Jones, Joseph S.; Meeker, Thrygve; and Reznicek, Kurt,3,453,166.

Jones, Joseph W, Jr.: *See—*
Burdick, Donald L.; Francis, William C.; and Jones, Joseph W, Jr.,3,448,084.

Jones, Kenneth H., to AER Corporation. Exhaust control system for dryer hood. 3,443,325, 5-13-69, Cl. 34-114.

Jones, Kenneth James; and Hicks, Harris Vernon, to Lucas, Joseph, (Industries) Limited. Automotive headlamp system in which the beam is controlled by a shutter. 3,486,066, 12-23-69, Cl. 315-82.

Jones, Kenneth L.: *See—*
Czarnecki, Adolph; Jones, Kenneth L.; and Michaels, Michael,3,435,780.

Jones, Kenneth R., to Globe-Union Inc. Deferred action battery having unitary plastic casing. 3,431,148, 3-4-69, Cl. 136-90.

Jones, Kenneth R. Ice resurfacing machine. 3,475,056, 10-28-69, Cl. 299-24.

Jones, Kenneth R.; Burant, Leonard J.; and Wolter, Donald R., to Globe-Union, Inc. Deferred action battery. 3,451,855, 6-24-69, Cl. 136-90.

Jones, Kenneth R.; and Thomas, John R., to Globe-Union, Inc. Method of manufacturing battery assemblies. 3,449,820, 6-17-69, Cl. 29-472.9

Jones, Lawrence M. Sanitary pickup device for animal droppings and like material. 3,446,525, 5-27-69, Cl. 294-19.

Jones, Lawrence R.: *See—*
Gore, Philip W.; and Jones, Lawrence R.,3,467,412.

Jones, Lawrence R., to Commercial Solvents Corporation. Choline composition. 3,475,177, 10-28-69, Cl. 99-2.

Jones, Lee S.: *See—*
Hasten, Mark; Jones, Lee S.; Haub, John T.; and Ceroll, Gerald E.,3,446,138.

Jones, Leland L., 1/2 to said Jones, Leland L., and Jones, Bessie M., as tenants, and 1/2 to Jones , Ada E. Crossbow. 3,483,857, 12-16-69, Cl. 124-25.

Jones, Lloyd K.: *See—*
Downey, Martin W.; and Jones, Lloyd K.,3,428,295.

Jones, Louis R., Jr., to Leeds & Northrup Company. Immersion radiation pyrometer device. 3,452,598, 7-1-69, Cl. 73-355.

Jones, Loyd W., to Pan American Petroleum Corporation. Inhibiting scale. 3,481,869, 12-2-69, Cl. 210-58.

Jones, Malcolm H., to Joyce, Loebl, & Company Limited. Method and apparatus for improved centrifugal analysis. 3,475,968, 11-4-69, Cl. 73-432.

Jones, Marvin R., to Cameron Iron Works, Inc. Apparatus for controlling the pressure in a well. 3,443,643, 5-13-69, Cl. 175-25.

Jones, Marvin R.; and Baugh, Benton F., to Cameron Iron Works, Inc. Apparatus for controlling the pressure in a well. 3,429,385, 2-25-69, Cl. 175-25.

Jones, Marvin R.; and Baugh, Benton F., to Cameron Iron Works, Inc. Apparatus for controlling the pressure in a well. 3,477,526, 11-11-69, Cl. 175-25.

Jones, Maurice H.: *See—*
Francis, Thomas; Jones, Maurice H.; and Thorne, Melanie P.,3,425,963.

Jones, Maurice W., to Phillips Petroleum Company. Recovery of streams from a feed by distillation. 3,441,485, 4-29-69, Cl. 203-99.

Jones, Michael Edward Benet: *See—*
Stark, Bernard Peter; and Jones, Michael Edward Benet,3,424,699.

Jones, Milton Earl. Powered capstan cable pulling mechanism. 3,440,896, 4-29-69, Cl. 74-413.

Jones, Morton E.: *See—*
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S.,3,434,828.

Jones, Norman: *See—*
Moss, Arthur William; Jones, Norman; and Carpenter, Kenneth,3,445,948.

Jones, Norman, to Marine Engine Specialties Corp. Valve manifold. 3,464,447, 9-2-69, Cl. 137-608.

Jones, Peter H.; and Rowley, Elizabeth A., to Abbott Laboratories. Carbohydrate derivatives of erythromycin. 3,478,013, 11-11-69, Cl. 260-210.

Jones, Phillip T.: *See—*
Smith, Dresden G.; and Jones, Phillip T.,3,465,952.

Jones Precision Photo Finish, Inc.: *See—*
Jones, Emil T., 3,479,939.

Jones, R. A., and Company, Incorporated: *See—*
Deering, Edwin Naul; and Jones, Wickliffe, 3,476,024.

Jones, Ralph E.; and Mahler, Hugo. Shoe fastener. 3,452,457, 7-1-69, Cl. 36-50.

Jones, Ralph S., Sr., to Micro-Frets Corporation. Nut-mount for fingerboards. 3,429,214, 2-25-69, Cl. 84-314.

Jones, Reginald Winstone: *See—*
Spencer, Frederick; and Jones, Reginald Winstone,3,467,453.

Jones, Reuben G.: *See—*
Perelman, Melvin; Jones, Reuben G.; and Mizsak, Stephen A.,3,446,813.

Jones, Rex L. Structural support. 3,446,312, 5-27-69, Cl. 182-226.

Jones, Richard A., to United Aircraft Corporation. Positive expulsion device. 3,435,996, 4-1-69, Cl. 222-386.5

Jones, Richard B.: *See—*
Jones, Robert H., Jr.; and Jones, Richard B.,3,449,815.

Jones, Richard D. Flexible bus-bar clamp. 3,437,985, 4-8-69, Cl. 339-242.

Jones, Richard F.; and Matthison, Arnold V., to Plessey Company Limited, The. Position control equipment. 3,463,051, 8-26-69, Cl. 91-36.

Jones, Richard P. Fishing reel with spring clutch. 3,429,521, 2-25-69, Cl. 242-84.54

Jones, Richard P.: *See—*
Zagone, Peter V.; Hesse, Jack E., Jr.; and Jones, Richard P.,3,439,170.

Jones, Richard Stanton, to Westland Aircraft Limited. Cushion air reverse flow preventing means. 3,425,505, 2-4-69, Cl. 180-118.

Jones, Robert A.; and Hunt, James L., to United States of America, National Aeronautics and Space Administration. Flow field simulation. 3,461,721, 8-19-69, Cl. 73-147.

Jones, Robert Allen, to United States of America, Navy. Safety latch for a messenger buoy. 3,428,977, 2-25-69, Cl. 9-8.

Jones, Robert C., to Shell Oil Company. Hydrogenated block copolymers of butadiene and a monovinyl aryl hydrocarbon. 3,431,323, 3-4-69, Cl. 260-880.

Jones, Robert D.; and Klee, David J., to Air Products and Chemicals, Inc. Low temperature processes for deflashing molded articles. 3,468,077, 9-23-69, Cl. 51-314.

Jones, Robert E., Jr.; and Price, Harold J., to Kaman Corporation. Method and apparatus for automatic neutron activation analysis comprising simultaneous rotation of a known and an unknown sample. 3,431,416, 3-4-69, Cl. 250-83.3

Jones, Robert E.; and Robinson, Samuel A., to Merck & Co., Inc. Aminopropoxymethylfurans and intermediates therefor. 3,433,807, 3-18-69, Cl. 260-347.7

Jones, Robert E.: *See—*
Garber, John D.; and Jones, Robert E.,3,483,228.

Jones, Robert Eynon, to Lewis, Tillie, Foods, Inc. Low-calorie egg product. 3,475,180, 10-28-69, Cl. 99-113.

Jones, Robert G., to Shakstad Electric and Machine Works, Inc. Safety shield for pad mounted electrical transformers. 3,464,580, 9-2-69, Cl. 220-18.

Jones, Robert G.: *See—*
Gogarty, William B.; and Jones, Robert G.,3,467,187.

Jones, Robert H., Jr.; and Jones, Richard B. Method of reconstruction of diesel cylinder heads. 3,449,815, 6-17-69, Cl. 29-401.

Jones, Robert Haldon; Nylin, Lennard Edward; and Olssen, Tor H., to Viking Sauna Company. Compact sauna unit. 3,452,369, 7-1-69, Cl. 4-160.

Jones, Robert H., to United States of America, Atomic Energy Commission. Annuciator circuit. 3,430,230, 2-25-69, Cl. 340-384.

Jones, Robert H., to Beckman Instruments, Inc. Liquid and gas analysis. 3,457,145, 7-22-69, Cl. 204-1.

Jones, Robert H.; and Nylin, Lennard E., to Viking Sauna Company. Prefabricated sauna room. 3,422,465, 1-21-69, Cl. 4-160.

Jones, Robert J. Dust collector for grinders. 3,468,076, 9-23-69, Cl. 51-273.

Jones, Robert J.: *See—*
Kircher, Charles E.; and Jones, Robert J.,3,425,188.
Kircher, Charles E.; Jones, Robert J.; and Kinsella, Frank V.,3,475,504.

Jones, Robert K. Rainmaker. 3,429,507, 2-25-69, Cl. 239-2.
Jones, Robert L.: *See—*
Benson, Robert A.; and Jones, Robert L.,3,480,466.
Jones, Robert L., to North American Rockwell Corporation. Differential amplifier having a feedback path including a differential current generator. 3,434,069, 3-18-69, Cl. 330-30.
Langrod, Kasimir; and Jones, Robert L.,3,432,336.
Jones, Robert N.: *See—*
Lane, Richard L.; and Jones, Robert N.,3,451,846.
Jones, Robert S.: *See—*
Shultz, Walter; and Jones, Robert S.,3,486,209.
Jones, Robert T., to Avco Corporation. Heart pump apparatus. 3,452,738, 7-1-69, Cl. 128-1.
Jones, Robert W. Fish stringer. 3,482,747, 12-9-69, Cl. 224-7.
Jones, Rodney A.: *See—*
Long, Roger A.; and Jones, Rodney A.,3,460,920.
Steffen, Hermann; Jones, Rodney; and Nellen, Horst,3,467,225.
Jones, Roger C., to Melpar, Inc. Radiant energ source. 3,423,694, 1-21-69, Cl. 331-94.5
Jones, Roger C., to Melpar, Inc. Solid state infrared oscillator. 3,441,734, 4-29-69, Cl. 250-199.
Jones, Roger W., to North American Rockwell Corporation. Infrared detection system using digital controls. 3,470,374, 9-30-69, Cl. 250-83.3
Jones, Roger W.; and White, Lloyd M., to North American Rockwell Corporation. Field gradient correlator system for field effect testing. 3,463,007, 8-26-69, Cl. 73-355.
Jones, Ronald E.: *See—*
Siegart, William R.; Peropoulos, Peter C.; Jones, Ronald E.; and Smolin, William,3,470,251.
Jones, Roscoe L.: *See—*
Teichmann, Friedrich; Jones, Roscoe L.; and Hopkins, Edwin R.,3,444,978.
Jones, Roy E., to San Antonio Chemicals, Inc., mesne. Apparatus for producing cesium. 3,432,156, 3-11-69, Cl. 266-34.
Jones, Roy E.: *See—*
Johnson, Robert; and Jones, Roy E.,3,484,348.
Jones, Royal R., to Cincinnati Butchers' Supply Company, The. Continuous rendering system. 3,471,534, 10-7-69, Cl. 260-412.6
Jones, Royal V., Jr.; Allen Clayton H.; and Gordon, Colin G., to Bolt Beranek and Newman Inc. Phonograph system. 3,480,283, 11-25-69, Cl. 274-17.
Jones, Russell E. Fertilizer applicator apparatus. 3,450,223, 6-17-69, Cl. 180-27.
Jones, Sam P., to J & S Carburetor Company. Carburetors for internal combustion engines. 3,484,220, 12-16-69, Cl. 48-180.
Jones, Samuel H.: *See—*
Tilney, Richard; Netherstreet, Jack H.; Mangnall, Derek; and Jones, Samuel H.,3,486,483.
Jones, Samuel P., to General Electric Company. Means for resiliently mounting tubular members. 3,447,603, 6-3-69, Cl. 165-178.
Jones, Selwyn: *See—*
Reid, Francis R.; Draper, James E.; and Jones, Selwyn,3,458,970.
Jones, Sheldon; and Briggs, Raymond W., to Hughes Aircraft Company. Noise discrimination by unblanking during the time that an A-C reference signal is in the neighborhood of the valve it had at the time of the previously accepted pulse. 3,445,663, 5-20-69, Cl. 250-203.
Jones, Sheldon; and Schleifer, Otto, to Hughes Aircraft Company. Infrared range computer. 3,476,921, 11-4-69, Cl. 235-151.32
Jones, Stanley A.: *See—*
Jones, Stanley A.; and Smith, Paul C., 3,439,662.
Jones, Stanley A.; and Smith, Paul C., 50% to Jones, Stanley A., and 25% to Smith, Paul C., and 12% to Fletcher, Dennis H., and 12 1/2% to Jones, Alan B. Variably time brake for an automotive vehicle engine. 3,439,662, 4-22-69, Cl. 123-97.
Jones, Stanley B.: *See—*
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O.,3,434,044.
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O.,3,462,674.
Jones, Stanley C., to Marathon Oil Company. Secondary recovery process utilizing a pre- slug prior to a displacing fluid. 3,482,631, 12-9-69, Cl. 166-273.
Jones, Stanley C.; Sanders, Laurence R., Jr.; Tosch, William C.; and Wenger, Charles B., to Marathon Oil Company. Process for the recovery of petroleum using soluble oils. 3,477,511, 11-11-69, Cl. 166-274.
Jones, Stanley C.: *See—*
Gogarty, William B.; and Jones, Stanley C.,3,474,865.
Kinney, Wilson L.; and Jones, Stanley C.,3,467,194.
Jones, Stanley Harold; and Williams, Parry, to British Resin Products Limited. Water-settable polyester/filler compositions. 3,449,285, 6-10-69, Cl. 260-40.
Jones, Sterling B., to Monogram Industries, Inc. Clamping device. 3,426,399, 2-11-69, Cl. 24-211.
Jones, T. V. Portable deer stand. 3,485,320, 12-23-69, Cl. 182-129.
Jones, Taylor L.; and Turner, John W., Jr., to Jackson, Byron, Inc. Transfer elevator assembly with latch means. 3,458,230, 7-29-69, Cl. 294-90.
Jones, Terrell M.: *See—*
Rivas, Alberto Q.; Parker, Laurence R.; and Jones, Terrell M.,3,457,890.
Jones, Thomas C.; and Cantarutti, Armindo, to NRM Corporation. Tire fabric handling apparatus. 3,428,510, 2-18-69, Cl. 156-406.
Jones, Thomas E. O., to Dunlop Company Limited, The. Adhesive compositions. 3,423,354, 1-21-69, Cl. 260-30.6
Jones, Thomas T., Jr. Multipurpose guy stake. 3,468,085, 9-23-69, Cl. 52-155.
Jones, Thornton K., to Chevron Research Company. Asphaltic coating compositions containing N- alkyl amino acids. 3,431,128, 3-4-69, Cl. 106-273.
Jones, Vercoe C., to Nutting Truck and Caster Company. Acceleration control mechanism. 3,478,698, 11-18-69, Cl. 104-172.
Jones, Vercoe C., to Nutting Truck and Caster Company. Self-contained acceleration control mechanism. 3,479,665, 11-18-69, Cl. 104-172.
Jones, Vercoe C.; and Olson, Jackie L., to Nutting Truck and Caster Company. Control apparatus. 3,427,992, 2-18-69, Cl. 104-172.
Jones, Vernon A.: *See—*
Gee, Lawrence N.; and Jones, Vernon A.,3,471,042.
Jones, W. Bartlett, to Conwed Corporation. Suspended ventilating ceiling and ventilating runner therefor. 3,426,496, 2-11-69, Cl. 52-669.
Jones, Wallace E., Jr.: *See—*
Holt, Donald R.; and Jones, Wallace E., Jr.,3,444,336.
Jones, Wesley N., to Westinghouse Electric Corporation. Temperature controlled electronic devices. 3,444,399, 5-13-69, Cl. 307-310.
Jones, Wickliffe: *See—*
Deering, Edwin Naul; and Jones, Wickliffe,3,476,024.
Jones, William A., to Deere & Company. Land measurer. 3,432,095, 3-11-69, Cl. 235-91.
Jones, William E. Pumping unit with spring connected pitman. 3,427,887, 2-18-69, Cl. 74-41.
Jones, William F. Fishhook remover. 3,451,157, 6-24-69, Cl. 43-53.5
Jones, William Glynne Moss: *See—*
Bowie, Raymond Alexander; Grant, Mervyn Stuart; and Jones, William Glynne Moss,3,463,779.
Broome, Arthur William James; Crossley, Neville Stanton; and Jones, William Glynne,3,466,370.
Jones, William H.: *See—*
Salley, Ernest J.; and Jones, William H.,3,421,088.
Jones, William J., to Westinghouse Electric Corporation. Thermometer. 3,440,882, 4-29-69, Cl. 73-356.
Jones, William M.; and Morris, William A., to Youngstown Steel Door Company, The. Detachable handle. 3,438,082, 4-15-69, Cl. 16-114.
Jones, William Owen Mc Kenzie. Machine tools and tool mountings therefor. 3,464,297, 9-2-69, Cl. 82-34.
Jones, William Owen McKenzie. Method for setting tools. 3,470,601, 10-7-69, Cl. 29-404.
Jones, William, to Catalyst Research Corporation. Primer holder for ignitable fixture. 3,447,970, 6-3-69, Cl. 136-83.
Jones, Willis D.: *See—*
Jones, Willis H.; and Jones, Willis D.,3,474,793.
Jones, Willis H.; and Jones, Willis D. Smoking pipe. 3,474,793, 10-28-69, Cl. 131-195.
Jones-Hinton, James: *See—*
Hurst, Norman Ashcroft; Gray, Thomas Edward Horace; and Jones-Hinton, James,3,464,099.
Jonesmith Company, Inc.: *See—*
Smith, Dresden G.; and Jones, Phillip T., 3,465,952.
Jongbloed, Johannes; Gardeniers, Jan G.; Nusser, Hubertus W.; and Peeters, Pierre H., to Stamicarbon N.V. Process and device for screening and drying a plastics granulate obtained by wet granulation. 3,469,323, 9-30-69, Cl. 34-9.
Jongenburger, Huibert S.; Van Hook, James P.; and Van Dijk, Christiaan P., to Pullman Incorporated. Hydrogen halide oxidation in acid medium. 3,449,079, 6-10-69, Cl. 23-216.
Jongenburger, Huibert S.: *See—*
Van Dijk, Christiaan P.; Van Hook, James P.; and Jongenburger, Huibert S.,3,451,776.
Jongkind, Jan C., to M & T Chemicals Inc. Alkaline tin oxide sols and process for their preparation. 3,462,373, 8-19-69, Cl. 252-313.
Jonke, Albert A.: *See—*
Steindler, Martin J.; and Jonke, Albert A.,3,423,190.
Jonker Business Machines, Inc.: *See—*
Parks, William, III; and Jonker, Frederick, 3,484,588.
Jonker, Frederick: *See—*
Parks, William, III; and Jonker, Frederick,3,484,588.
Jonker, Gerard Heinrich, to U.S. Philips Corporation, mesne. Method of treating objects of oxidic, ceramic, polycrystalline materials. 3,458,455, 7-29-69, Cl. 252-521.

Jonker, Jacobus Johannes: *See*—
Smit, Hendrikus Jan; Hollweg, Antonius J. F.; and Jonker, Jacobus Johannes,3,485,030.

Jonkers, Johannes Josephus Antonius, to U.S. Philips Corporation, mesne. Method of manufacturing screens for cathode-ray tubes. 3,484,240, 12-16-69, Cl. 96-36.1

Jonkers, Johannes Josephus Antonius; and Groendijk, Hendrik, to U.S. Philips Corporation, mesne. Process for the manufacture of a display screen of a cathode ray tube for reproducing color images employing phosphor strips luminescing in different colors and an indexing strip. 3,484,269, 12-16-69, Cl. 117-38.

Jonnes, Nelson, to Minnesota Mining and Manufacturing Company. Matrix for molding a positive relief impression. 3,470,059, 9-30-69, Cl. 161-161.

Jonnes, Nelson: *See*—
Palmquist, Philip V.; and Jonnes, Nelson,3,449,201.

Jono, Kazuo: *See*—
Kihara, Toshihiko; Jono, Kazuo; and Fukuma, Noboru,3,422,491.

Jonsson, Carl Lennart: *See*—
Wallden, Knut Anders Osborne,3,450,487.

Jonsson, Einar: *See*—
Gunderson, Frederick Allan; and Jonsson, Einar,3,427,899.

Jonsson, Erik: *See*—
Falk, Sven Uno; Jonsson, Erik; and Soredal, Sven Gunnar,3,443,996.

Jonsson, Erik, to Allmanna Svenska Elektriska Aktiebolaget. Control device for a nuclear reactor. 3,432,387, 3-11-69, Cl. 176-36.

Jonsson, Karl O. Door assembly. 3,464,161, 9-2-69, Cl. 49-197.

Jonsson, Per Gustaf; and Bogestam, Arne, to International Standard Electric Corporation. Intertraffic equipment for loudspeaker private branch exchanges. 3,482,050, 12-2-69, Cl. 179-16.

Jonsson, Per Gustaf; and Bogestam, Arne, to International Standard Electric Corporation. Pulse transmission device for intertraffic equipment in loudspeaker private branch exchanges. 3,487,174, 12-30-69, Cl. 179-86.

Jonsson, Sune Otto Gunnar, to Aktiebolaget Bofors. Capacitor discharge medical stimulator. 3,476,117, 11-4-69, Cl. 128-421.

Jonz, John P.: *See*—
Parson, Ralph D.; Clifton, Edwin R.; and Jonz, John P.,3,440,749.

Joo, Louis A.; Hutchings, Le Roi E.; and Muller, Nathan W., to Great Lakes Carbon Corporation. Electrolytic apparatus for the regeneration of chromium salt solutions. 3,450,623, 6-17-69, Cl. 204-256.

Joo, Louis A.; and Snodgrass, Frank E., to Great Lakes Carbon Corporation. Electrolytic regeneration of reduced chromium. 3,423,300, 1-21-69, Cl. 204-89.

Joor, William E., II, to U.S. Industries, Inc., mesne. Method of constructing suspension roofs. 3,449,884, 6-17-69, Cl. 52-747.

Joormann, Hendrik Jacobus Maria; and Van Vulpen, Aalbert, to U.S. Philips Corporation, mesne. Semiconductor resistor and photoconductive assembly containing same. 3,475,713, 10-28-69, Cl. 338-17.

Joos, Karl: *See*—
Sauer, Edgar; Hahn, Johann; and Joos, Karl,3,443,496.

Joosten, Peter J. Truncatable bilge block arrangement. 3,452,547, 7-1-69, Cl. 61-66.

Joosten, Peter J., to United States of America, Navy. Elevated floor for dry dock. 3,453,833, 7-8-69, Cl. 61-66.

Jordan, Alfred H.; and Fiske, Ruth E., to Eastview Corporation. Educational apparatus. 3,423,849, 1-28-69, Cl. 35-30.

Jordan, Arthur Edmund; and Williams, Reginald Hugh, to G.K.N. Screws & Fasteners Limited. Stiff nuts. 3,459,249, 8-5-69, Cl. 151-21.

Jordan, Bertram L., to Harrington Manufacturing Company. Timber shear. 3,482,613, 12-9-69, Cl. 144-34.

Jordan, Bertram L.; Mitchell, John D.; Harrington, Joseph J.; Griffin, Charles B.; and Hall, William R. Tree felling device. 3,482,614, 12-9-69, Cl. 144-34.

Jordan, Charles T.: *See*—
Speas, Charles A.; and Jordan, Charles T.,3,433,867.

Jordan Controls, Inc.: *See*—
Gruner, Frederick W., 3,424,959.
Henke, Russell W., 3,429,229.

Jordan, Daniel Lazo. Heart valve. 3,451,067, 6-24-69, Cl. 3-1.

Jordan, Frank G. Game device. 3,465,470, 9-9-69, Cl. 46-37.

Jordan, Frank G. Apparatus for producing visual color effects. 3,468,599, 9-23-69, Cl. 350-146.

Jordan, Galen A., to Thiokol Chemical Corporation. Cutting tool. 3,435,715, 4-1-69, Cl. 77-58.

Jordan, Gary B.; and Bachman, Bruce E. Perforated record system using light transmitting block. 3,457,424, 7-22-69, Cl. 250-227.

Jordan, Harold d/b/a Jordan Rental & Service Company and 1/3 to Phillips, John M.: *See*—
Pridy, Whetstine, B., 3,429,374.

Jordan, Heinz: *See*—
Quest, Karl; and Jordan, Heinz,3,486,538.

Jordan, Howard J.; and Zednik, Louis, Jr., to ESB Incorporated, mesne. Electric storage battery which provides two voltage sources. 3,475,221, 10-28-69, Cl. 136-6.

Jordan, Jackie B.; and White, Thomas R., to Standard Oil Company, The (Ohio). Extractive distillation process for separating nitrites, peroxides and precursors thereof from crude unsaturated nitriles saturated with water by alkaline addition. 3,442,771, 5-6-69, Cl. 203-33.

Jordan, John W.: *See*—
Cowan, Jack C.; Beasley, Augustus Earl, Jr.; Jordan, John W.; Finlayson, Claude Malcolm; and Sterns, Robert O.,3,425,953.

Jordan, Kurt: *See*—
Wilm, Diederich; Flasskamp, Willi; Broft, Eduard; and Jordan, Kurt,3,473,300.

Jordan, Leonard R., Jr. Vehicle steering damper. 3,420,542, 1-7-69, Cl. 280-90.

Jordan, Leslie H.; and Arden, John. Vacuum operated timer switch. 3,466,410, 9-9-69, Cl. 200-83.

Jordan, Manuel A.; Meyer, John F.; and Zalewiski, Edmund J., to Schenectady Chemicals, Inc. Polyester of benzophenone dicarboxylic acid and tris(2-hydroxyethyl) isocyanurate. 3,480,589, 11-25-69, Cl. 260-63.

Jordan, Manuel A.; and Petersen, Kenneth C., to Schenectady Chemicals, Inc. Alkylphenyl borates in EPDM rubbers. 3,437,123, 4-8-69, Cl. 152-330.

Jordan, Manuel A.: *See*—
Gonzenbach, Carlos T.; and Jordan, Manuel A.,3,463,753.

Jordan, Merrill E., to Cabot Corporation. Process for the production of highly amorphous carbon black. 3,431,074, 3-4-69, Cl. 23-209.3

Jordan, Merrill E.; and Burbine, William G., to Cabot Corporation. Process for making carbon black from CO. 3,464,793, 9-2-69, Cl. 23-209.3

Jordan, Merrill E.; and Hardy, John F., to Cabot Corporation. Spray drying carbon black. 3,433,660, 3-18-69, Cl. 106-307.

Jordan, Merrill E.: *See*—
Wendell, Charles B.; Jordan, Merrill E.; Burbine, William G.; and Shelvey, Richard B.,3,443,901.

Jordan, Richard J.; and Erickson, Paul N., to General Marine, Inc. Radiation sensitive carbon monoxide detector. 3,445,669, 5-20-69, Cl. 250-218.

Jordan, Robert J., 1/3 to Davis, Robert B., and 1/3 to Phillips, Ronald N. Interferometer comprising photocathode of fractional light wavelength thickness in envelope having optically flat windows. 3,447,014, 5-27-69, Cl. 313-94.

Jordan, Robert J.; Davis, Robert B.; and Phillips, Ronald N., to United States of America, Navy. Harmonic motion measuring device using laser techniques. 3,435,656, 4-1-69, Cl. 73-1.

Jordan, Samuel C.; and Bowling, Teamus, to General Electric Company. Self-cleaning oven with over-temperature protective systems. 3,484,858, 12-16-69, Cl. 219-413.

Jordan, Thomas J.; and Plant, Henry T., to General Electric Company. Radome and method for making same. 3,432,859, 3-11-69, Cl. 343-872.

Jordan, Wayne W., to Clark Equipment Company. Combination facing for clamp device. 3,433,376, 3-18-69, Cl. 214-653.

Jordan, Wesley A., to General Mills, Inc. Formation fracturing. 3,483,121, 12-9-69, Cl. 252-8.55

Jordan, William E.; and Kottler, Franklin D., to Eastman Kodak Company. Focus adjusting circuitry for a slide projector. 3,466,125, 9-9-69, Cl. 353-101.

Jordan, William F., Jr., to Honeywell Inc., mesne. Multiemitter-follower circuits. 3,478,319, 11-11-69, Cl. 340-166.

Jordan, Wilmer C. Electrical controlling device. 3,487,180, 12-30-69, Cl. 200-38.

Jording, Clifford H.: *See*—
Hixson, Wilbur H.; Jording, Clifford H.; and Wahl, John F.,3,440,681.

Jore, Olav E.: *See*—
Perrone, Rosario J.; and Jore, Olav E.,3,448,204.

Jores, Willi, to Agfa-Gevaert Aktiengesellschaft. Sheet cutting device. 3,426,633, 2-11-69, Cl. 83-341.

Jorgensen, Adam A.; Bentley, R William; and Paul, Joseph C., to Stromberg-Carlson Corporation. Cross point strip relay assembly. 3,474,364, 10-21-69, Cl. 335-202.

Jorgensen, Adam A.; Cieslak, Arthur B.; and Bentley, Robert W., to Stromberg-Carlson Corporation. Reed relay assembly. 3,445,728, 5-20-69, Cl. 317-113.

Jorgensen, Adam A.; Lee, Ernest O., Jr.; Neumeier, Guenther F.; and Schneider, Gerhard O. K., to Stromberg-Carlson Corporation. Path-finding system for a network of cross-point switching matrices. 3,485,956, 12-23-69, Cl. 179-18.

Jorgensen, August H., Jr.; and Starmer, Philip H., to Goodrich, B. F., Company, The. Nitrogen-containing acrylic elastomers stabilized with inorganic phosphites. 3,445,413, 5-20-69, Cl. 260-23.

Jorgensen, August H., Jr.: *See*—
Minnerly, Harold E., Jr.; and Jorgensen, August H., Jr.,3,487,054.

Jorgensen, Donald E. Processes for applying printing to metal substrates. 3,442,742, 5-6-69, Cl. 156-244.

Jorgensen, Finn: *See*—
Johnson, Wayne R.; and Jorgensen, Finn,3,467,789.
Jorgensen, George N., to Square D Company. Bus duct section with ground bus bar. 3,446,911, 5-27-69, Cl. 174-88.
Jorgensen, George N., to Square D Company. Insulated bus bars. 3,461,222, 8-12-69, Cl. 174-117.
Jorgensen, Hugh V.: *See*—
Frassanito, John R.; Jorgensen, Hugh V.; and Brout, Robert Benedicte,3,443,664.
Jorgensen, Karl-Gunnar, to Logma Aktiebolag, mesne. Tree-trimming. 3,443,611, 5-13-69, Cl. 144-2.
Jorgensen, Leif G., to Dupage Metal Products Company. Film splicing apparatus. 3,450,589, 6-17-69, Cl. 156-505.
Jorgensen, Leif G. Metnod and apparatus for splicing film. 3,461,022, 8-12-69, Cl. 156-505.
Jorgensen, Lester V., to Bell & Howell Company. Film movement mechanism. 3,469,753, 9-30-69, Cl. 226-62.
Jorgensen, Lester V.; and Kerstein, Melvin T., to Bell & Howell Company. Compatible motion picture projector. 3,427,101, 2-11-69, Cl. 352-79.
Jorgensen, Niels Christian. Hair curler. 3,478,755, 11-18-69, Cl. 132-33.
Jorgensen, Paul J.: *See*—
Hanneman, Rodney E.; Jorgensen, Paul J.; and Speros, Dimitrios M.,3,453,477.
Jorgensen, Paul J., to General Electric Company. Silicon dioxide coatings utilizing a plasma. 3,434,868, 3-25-69, Cl. 117-93.
Jorgensen, Paul J., to General Electric Company. Oxygen getter for high pressure sodium vapor lamp. 3,485,343, 12-23-69, Cl. 206-0.4
Jorgensen, Pierre Charles, to Compagnie de Saint-Gobain. Electronic sorting of documents. 3,467,819, 9-16-69, Cl. 235-61.11
Jorgensen, Robert A. Hinge. 3,475,783, 11-4-69, Cl. 16-128.
Jorgensen, Svend M., to Foster Wheeler Corporation. Shear stud vessel closures and shell joints. 3,451,585, 6-24-69, Cl. 220-46.
Jorgenson, John P.; and Kling, Olaf E. Clamping device. 3,481,008, 12-2-69, Cl. 24-125.
Joris, George G.; and Miller, Robert H., to Allied Chemical Corporation. Process for the continuous polymerization of lactams. 3,484,414, 12-16-69, Cl. 260-78.
Jory, Howard R.: *See*—
Feinstein, Joseph; and Jory, Howard R.,3,457,450.
Feinstein, Joseph; Jory, Howard R.; and Trivelpiece, Alvin W.,3,450,931.
Jory, Howard R.; and Trivelpiece, Alvin W., to Varian Associates. Charged particle accelerator apparatus including means for converting a rotating helical beam of charged particles having axial motion into a non- rotating beam of charged particles. 3,463,959, 8-26-69, Cl. 315-5.
Jory, John H. Method and apparatus for inserting cards in a carrier web. 3,484,097, 12-16-69, Cl. 270-52.
Josam Manufacturing Co.: *See*—
Blendermann, Louis, 3,469,698.
Blendermann, Louis; and Scheuer, Nicholas G., 3,469,699.
Blendermann, Louis, 3,473,565.
Flegel, George J.; and Mielbeck, Roger L., 3,435,467.
Mork, John W., 3,420,552.
Jose, John: *See*—
Carlo, Louis David, 3,480,999.
Josefowicz, Edmund L.; Cooper, Irwin; and Melnick, Daniel, to Corn Products Company. Low-fat table spread compositions. 3,457,086, 7-22-69, Cl. 99-123.
Josefowicz, Edmund L.: *See*—
Melnick, Daniel; and Josefowicz, Edmund L.,3,472,661.
Josenhans, James G.; Magalhaes, Frank M.; and Schlosser, Wolfgang O., to Bell Telephone Laboratories, Incorporated. Microwave oscillator with plural IMPATT diodes. 3,460,055, 8-5-69, Cl. 331-96.
Joseph, A David, to Eutectic Welding Alloys Corporation. Welding product and process. 3,479,231, 11-18-69, Cl. 148-24.
Joseph, A David; and Tanzman, Daniel P., to Eutectic Welding Alloys Corporation. Welding process and product. 3,471,310, 10-7-69, Cl. 117-22.
Joseph, Alan H., to Handy Manufacturing Company. Position control system. 3,479,522, 11-18-69, Cl. 307-119.
Joseph, Gerald L.: *See*—
Henke, Elmer J.; and Joseph, Gerald L.,3,441,004.
Joseph, Guy G.; and Teverbaugh, Robert K., to Holiday Inns of America, Inc., mesne. Method of making a mattress from foamed plastic material. 3,459,611, 8-5-69, Cl. 156-78.
Joseph, Guy G.; Teverbaugh, Robert K.; and Maniquis, Angelina A., to Holiday Inns of America, Inc., mesne. Apparatus for making polyurethane foam. 3,476,292, 11-4-69, Cl. 222-135.
Joseph, Jean-Jacques, to Frangeco, Societe Anonyme Francaise, Puteaux. Container truck locking mechanism. 3,431,017, 3-4-69, Cl. 296-35.
Joseph, Joseph Peter: *See*—
Dusza, John Paul; Joseph, Joseph Peter; and Bernstein, Seymour,3,483,232.
Joseph, Joseph Peter; Dusza, John Paul; and Bernstein, Seymour, to American Cyanamid Company. Estrogen water-soluble 16α-yl-gluco- pyranosiduronic compounds and preparation thereof. 3,449,321, 6-10-69, Cl. 260-210.5
Joseph, Leonard. Locking mechanism for container lid. 3,430,468, 3-4-69, Cl. 70-164.
Joseph, Phillip John, to Cornell Aeronautical Laboratory, Inc. Method and apparatus for extending the long- wavelength spectral response of intrinsic photoconductors. 3,444,500, 5-13-69, Cl. 338-18.
Joseph Pierre, to Edouard Dubied et Cie (Societe Anonyme). Patterning device for circular knitting machines. 3,452,560, 7-1-69, Cl. 66-50.
Joseph, Pierre, to Edouard Dubied & Cie, Societe Anonyme. Patterning devices for circular knitting machines. 3,465,547, 9-9-69, Cl. 66-50.
Joseph, Raymond S.; Kemeny, Julius; and Highland, Andrew, Jr., to General Electric Company. Plural scale indicating means. 3,457,892, 7-29-69, Cl. 116-124.4
Joseph, Robert J.; and Murphy, William J., to Xerox Corporation. Xerographic plate comprising a protective coating of a resin mixed with a metallic stearate. 3,434,832, 3-25-69, Cl. 96-1.5
Joseph, William: *See*—
Frantz, Dolph G.; and Joseph, William,3,420,599.
Josephian, William, to Pacific Oxygen Company. Transporting system. 3,451,573, 6-24-69, Cl. 214-515.
Josephs, Harold C.; and Zook, James David, to Honeywell Inc. Semiconductor device with a lateral retrograded PN junction. 3,434,893, 3-25-69, Cl. 148-33.
Josephsen, Gene H.; and Weaver, Frank C., to Stewart-Warner Corporation. Bimetallic thermostatic device having ambient temperature compensation by means of a U-shaped bimetal element with a permanently set leg. 3,435,339, 3-25-69, Cl. 324-105.
Josephson, Julian. Buoy stabilization system. 3,447,554, 6-3-69, Cl. 137-81.5
Josephson, Julian. Pure-fluid tide gauge. 3,473,376, 10-21-69, Cl. 73-170.
Josephson, Robert G., to TRW Inc. Laminated bearing adapted to bend in a plurality of planes. 3,449,031, 6-10-69, Cl. 308-237.
Joshi, Kamalakant Krishnarao: *See*—
Dunning, Robert William; Joshi, Kamalakant Krishnarao; Oldham, Alan Roger; and Willott, Michael Christopher Kenneth,3,463,830.
Joslin, Alvin Earl. Grooving device. 3,473,359, 10-21-69, Cl. 72-121.
Joslin, Douglas H. Methods and apparatus for controlling dough mixing machines. 3,456,179, 7-15-69, Cl. 318-484.
Joslin, Theodore E.: *See*—
Flowers, Edward J.; and Joslin, Theodore E.,3,455,139.
Josling, Clifford A.: *See*—
Goodman, Ronald H.; Bettens, Arsene H.; and Josling, Clifford A.,3,476,939.
Joslyn, Edward P.: *See*—
Vadas, John F.; and Joslyn, Edward P.,3,463,136.
Joslyn, John A., to General Electric Company. Phase controlled power amplifier lockout circuit. 3,431,479, 3-4-69, Cl. 318-257.
Joslyn Mfg., and Supply Co.: *See*—
Dake, Lee J., 3,428,283.
Kawiecki, Chester J., 3,448,337.
Joss, Alfred, to Pharmexbio A.G. Method for obtaining urokinase. 3,468,760, 9-23-69, Cl. 195-66.
Josse, Bernard Jean. Linear induction system feeding a low voltage current. 3,437,967, 4-8-69, Cl. 336-96.
Jossi, Hans: *See*—
Bula, Karl, 3,451,697.
Jost, Ernest M., to Texas Instruments Incorporated. Method of welding a terminal tab to the plate of an electrochemical cell. 3,426,172, 2-4-69, Cl. 219-91.
Jost, Ernest M., to Texas Instruments Incorporated. Electrochemical power supply with movable anode material. 3,432,354, 3-11-69, Cl. 136-86.
Jost, Ernest M., to Texas Instruments, Incorporated. Electrochemical power supply. 3,446,675, 5-27-69, Cl. 136-86.
Jost, Ernest M., to Texas Instruments, Incorporated. Nickel-zinc battery system having an aqueous electrolyte consisting of potassium hydroxide and potassium carbonate. 3,485,673, 12-23-69, Cl. 136-28.
Jost, Ernst M.; and Cadden, James Joseph, to Texas Instruments, Incorporated. Method of making a composite metal product. 3,481,023, 12-2-69, Cl. 29-472.3
Jost, Karel: *See*—
Rudinger, Josef; and Jost, Karel,3,446,789.
Jost-Werke G.m.b.H., Firma: *See*—
Lindner, Heinz, 3,434,736.
Jotoku, Minoru; Naka, Shinya; and Inada, Naohiko, to Japan Gas-Chemical Company, Inc. Exothermic catolytic reaction apparatus. 3,459,511, 8-5-69, Cl. 23-289.
Jotten, Robert: *See*—
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner,3,447,066.

Jouault, Pierre, to Commissariat a l'Energie Atomique. Method of sampling aerosols by suction and device for the application of said method. 3,438,179, 4-15-69, Cl. 55-97.
Jounot, Theodore, to Sandvik Steel, Inc. Balustrade and the like. 3,468,516, 9-23-69, Cl. 256-24.
Jourdain, Philippe Andre: *See—*
Poincet, Francois Xavier; Pourcher, Henri Marie Rene; and Jourdain, Philippe Andre,3,486,327.
Journapak Corporation: *See—*
Tracey, George B., 3,454,315.
Journapak Corporation, The: *See—*
Tracey, George B., 3,434,767.
Jousset, Antoine Marie; Jacquart, Christian Augustin; Le Goffic, Yves Henri; and Milon, Jean Emile. Wide frequency band signal converter. 3,465,249, 9-2-69, Cl. 324-111.
Jousset, Antoine M.; and Jacquart, Christian A. Restoring synchronization in pulse code modulation multiplex systems. 3,454,722, 7-8-69, Cl. 179-15.
Jouveneaux, Roger Charles, to International Harvester Company. Grain threshing, cleaning and separating device. 3,443,565, 5-13-69, Cl. 130-27.
Jovic, Nikola Ljotic: *See—*
Seemann, Donald Francis; Hestad, Alfred M.; and Jovic, Nikola Ljotic,3,449,526.
Jovic, Nikola L., to International Telephone and Telegraph Corporation. Self-tapering electronic switching network. 3,452,158, 6-24-69, Cl. 179-18.
Joy, Charles A., to Honeywell Inc. Expansible fastener. 3,473,432, 10-21-69, Cl. 85-9.
Joy, Frederick A.: *See—*
Konkel, John A.; and Joy, Frederick A.,3,436,470.
Joy, Ivan L. Heat detecting system. 3,461,284, 8-12-69, Cl. 246-169.
Joy Manufacturing Company: *See—*
Archer, William E.; Coe, Everett L., Jr.; and Reed, Leo O., 3,477,124.
Bailey, Edward A.; and Beaumont, Richard W., 3,446,294.
Kossowski, Kazimierz; and Peterson, Harley G., 3,426,507.
Neely, Robert E.; and Limonczenko, Alex D., 3,420,040.
Joy, Marion R.: *See—*
Bailey, John M.; and Joy, Marion R.,3,444,886.
Joy, Raymond D., to Burlington Industries, Inc. Fluid pressure operated programming and control system. 3,470,895, 10-7-69, Cl. 137-85.
Joy, Raymond D.: *See—*
Upshur, Littleton; Joy, Raymond D.; and Cochran, John M., Jr.,3,437,799.
Joy, William M. Artificial fireplace. 3,444,637, 5-20-69, Cl. 40-106.53
Joyal, Leo T.: *See—*
Horvath, Ernest A.; and Joyal, Leo T.,3,442,559.
Joyal Mfg., Corp.: *See—*
Warner, Samuel, 3,441,707.
Joyce, Alexander H.; and Pirrello, Antonio, to General Motors Corporation. Electrical stock removal apparatus. 3,468,784, 9-23-69, Cl. 204-224.
Joyce, Alexander H.: *See—*
James, Kenneth F.; and Joyce, Alexander H.,3,422,663.
Nichols, Charles A.; Joyce, Alexander H.; Gardner, Charles W.; and Fletcher, William A.,3,455,371.
Joyce, Benjamin D., to Westinghouse Electric Corporation. Semiconductor integrated circuits and method of making the same. 3,423,255, 1-21-69, Cl. 148-175.
Joyce, Jack E.: *See—*
Ham, Coy S.; Raub, Lyly; Joyce, Jack E.; and Lozano, Robert,3,481,841.
Joyce, James E., to Lear Siegler, Inc. Wire bending assembly. 3,481,177, 12-2-69, Cl. 72-404.
Joyce, John. Circuitry for checking rail continuity. 3,457,402, 7-22-69, Cl. 246-121.
Joyce, Kevin E. Magnetic edge protector for a ski. 3,480,894, 11-25-69, Cl. 335-303.
Joyce, Loebl, & Company Limited: *See—*
Jones, Malcolm H., 3,475,968.
Loebl, Herbert, 3,484,206.
Joyce, Peter Lawrence: *See—*
Andreae, John Hugh; Joyce, Peter Lawrence; and Gaines, Brian Ronald,3,484,749.
Joyce, Richard D., to National Cash Register Company, The. Method of making high density electrical connections. 3,421,961, 1-14-69, Cl. 156-296.
Joyce, Ronald S.; and Hager, Donald G., to Calgon Corporation, mesne. Carbon treatment of raw sewage. 3,455,820, 7-15-69, Cl. 210-40.
Joyce, Thomas F., to Honeywell Inc. Apparatus for monitoring the processing time of program instructions. 3,426,331, 2-4-69, Cl. 340-172.5
Joyce, William B., to Industrial Nucleonics Corporation. Method and apparatus for detecting a given pattern in a moving web such as wire mark in paper. 3,437,823, 4-8-69, Cl. 250-219.
Joyce, William John: *See—*
Gatiss, John William; and Joyce, William John,3,443,156.
Joyce-Cridland Company, The: *See—*
Haddix, Robert J.; and Hott, Ion V. K., 3,467,138.
Hott, Ion V. K., 3,447,623.
Joyner, Austin; and Piercy, Charles Knoefel, to American Cyanamid Company. Tetracycline antibiotic compositions for oral use. 3,454,697, 7-8-69, Cl. 424-227.
Joyner, Frederick B.; and McConnell, Richard L., to Eastman Kodak Company. Modified polymers. 3,480,580, 11-25-69, Cl. 260-29.6
Joyner, Frederick B.: *See—*
Cash, George O., Jr.; and Joyner, Frederick B.,3,432,514.
Coover, Harry W., Jr.; and Joyner, Frederick B.,3,439,066.
Joyner, Philip G.: *See—*
Hodges, John E.; Joyner, Philip G.; and Toogood, Graham J.,3,447,472.
Joynson, Reuben E., Jr.: *See—*
MacKellar, Donald; and Joynson, Reuben E., Jr.,3,450,534.
Neugebauer, Constantine A.; Rairden, John R., III; and Joynson, Reuben E., Jr.,3,436,258.
Juan, Ying-Tsai. Device of chime communication by amplifying the sound of a music box. 3,429,977, 2-25-69, Cl. 84-1.14
Juba, Bernard T.: *See—*
Chandler, Wesley M.; and Juba, Bernard T.,3,464,171.
Chandler, Wesley M.; Heuser, Paul F.; and Juba, Bernard T.,3,439,461.
Jubb, Albert; and Johnson, Christopher Linley, to Rolls-Royce Limited. Gear pump. 3,427,980, 2-18-69, Cl. 103-41.
Jube, George A.; and Popot, Max R., to Sud-Aviation, Societe Nationale de Constructions Aeronautiques. Filament winding machine. 3,443,765, 5-13-69, Cl. 242-2.
Juberigan, Grant. Masons' line device. 3,436,832, 4-8-69, Cl. 33-86.
Jubilee, Benjamin D.: *See—*
Skoultchi, Martin; and Jubilee, Benjamin D.,3,425,977.
Jubin, John C., Jr., to Atlantic Richfield Company. Separation of propylene oxide from other hydrocarbons. 3,464,897, 9-2-69, Cl. 203-52.
Jubin, John C., Jr., to Atlantic Richfield Company. Method for regenerating glycol-amine absorbing solutions. 3,471,370, 10-7-69, Cl. 203-49.
Jubin, John C., Jr.; and Zabielski, Stephen F., to Atlantic Richfield Company. Hydrogenation method and apparatus. 3,441,498, 4-29-69, Cl. 208-143.
Jubin, John C., Jr.: *See—*
Jacobs, Harry E.; Jubin, John C., Jr.; and Masologites, George P.,3,454,666.
Jucker, Ernst; and Ebnother, Anton, to Sandoz, Ltd., a/k/a Sandoz A.G. Dibenzocycloheptane derivatives. 3,420,848, 1-7-69, Cl. 260-326.81
Jucker, Ernst; and Ebnother, Anton, to Sandoz Ltd., a/k/a Sandoz A.G. Improvements in or relating to dibenzocycloheptane compounds. 3,487,078, 12-30-69, Cl. 260-240.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael, to Sandoz Ltd., a/k/a Sandoz A.G.9,10-Dihydro-4H-benzo[4,5]cyclohepta[1,2-b] thiophene ethers. 3,466,290, 9-9-69, Cl. 260-292.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael, to Sandoz Ltd., a/k/a Sandoz A.G.4(2-Dialkylaminoethoxy or 2-piperidinoethoxy)-9-10- dihydro benzo[4,5] cyclohepta [1,2-b] thiophene derivatives. 3,466,291, 9-9-69, Cl. 260-293.4
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre, to Sandoz Ltd., also known as Sandoz A.G.4H-Benzo[4,5]cyclohepta[1,2-b] thiophenes. 3,464,983, 9-2-69, Cl. 260-240.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre, to Sandoz Ltd., also known as Sandoz A.G.4H-Benzo[4,5]cyclohepta[1,2-b]-thiophene derivatives. 3,465,003, 9-2-69, Cl. 260-329.
Jucker, Ernst; Ebnother, Anton; and Rissi, Erwin, to Sandoz Ltd., (a/k/a Sandoz A.G.). Phenothiazine derivatives. 3,445,464, 5-20-69, Cl. 260-243.
Jucker, Ernst; Ebnother, Anton; and Stoll, Andre, to Sandoz Ltd., a/k/a/ Sandoz A.G. Piperidylmethyl anthracenes. 3,474,105, 10-21-69, Cl. 260-293.
Jucker, Ernst; and Lindenmann, Adolf J., to Sandoz Ltd. Heterocyclic derivatives of aryl sulfonyl carbamic acid. 3,445,470, 5-20-69, Cl. 260-292.
Jucker, Ernst; and Lindenmann, Adolf J., to Sandoz Ltd., (a/k/a Sandoz A.G.). Pharmaceutical compositions with salidiuretic and reserpine antagonist activity comprising N-[2'-6'- dimethyl-piperidyl-(1')]-3-sulfamyl-4-chlorobenzoic acid amide. 3,445,573, 5-20-69, Cl. 424-267.
Jucker, Ernst; and Lindenmann, Adolf J., to Sandoz Ltd., (a/k/a Sandoz A.G.). N-[2',6'-Dimethyl-piperidyl-(1')]-3-sulfamyl-4-chloro-benzoic acid amide. 3,459,756, 8-5-69, Cl. 260-293.4
Jucker, Ernst; Lindenmann, Adolf J.; and Gadient, Fulvio, to Sandoz Ltd., a/k/a Sandoz A.G. Hydrazobenzenes and their production. 3,428,670, 2-18-69, Cl. 260-479.
Jucker, Ernst; Lindenmann, Adolf; and Schenker, Erhard, to Sandoz Ltd., a/k/a Sandoz A.G. Sulfonylurea compounds. 3,426,017, 2-4-69, Cl. 260-239.6

Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; and Gadient, Fulvio, to Sandoz Ltd., a/k/a Sandoz A.G. Benzene sulfonyl semicarbazides. 3,432,491, 3-11-69, Cl. 260-239.6

Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; Gadient, Fulvio; and Stoll, Andre, to Sandoz Ltd. 1-Sulfonyl-3-nortropanyl-urea derivatives. 3,438,976, 4-15-69, Cl. 260-239.6

Jucker, Ernst; and Suess, Rudolf, to Sandoz Ltd., a/k/a Sandoz A.G.4-[N-(3,3-diphenyl-propyl) - amino]-1-methyl-3- phenyl-piperiden and intermediates thereto. 3,423,415, 1-21-69, Cl. 260-293.

Jucker, Hans Conrad, to Mepag A.G. Gravimetric titration process and apparatus therefor. 3,438,736, 4-15-69, Cl. 23-230.

Juckniess, Paul R.; and Blue, Robert D., to Dow Chemical Company, The. Galvanic cell employing iron cathode and method of producing galvanic cathode having activated iron surface. 3,477,876, 11-11-69, Cl. 136-83.

Juculano, Theodore Charles, to Marvel Equipment Corporation, mesne. Releasable metal scaffolding connector. 3,458,222, 7-29-69, Cl. 287-53.5

Juda, Walter: *See—*
Moulton, David McL.; Novack, Robert L.; and Juda, Walter,3,471,335.
Novack, Robert L.; Moulton, David McLeod; and Juda, Walter,3,471,334.

Juda, Walter; and Frant, Martin S., to Prototech Incorporated. Method of operating a fuel cell comprising a hydrogen diffusion otherwise impermeable anode. 3,423,244, 1-21-69, Cl. 136-86.

Juda, Walter; Moulton, David McLeod; and Novack, Robert L., to Prototech Incorporated. Method of operating fuel cell with carbon- containing fuel. 3,470,026, 9-30-69, Cl. 136-86.

Juda, Walter; and Novack, Robert Lee, to Prototech Incorporated. Gas-diffusion assembly including thin hydrogen-permeable impervious foil. 3,447,288, 6-3-69, Cl. 55-158.

Judd, Bertie William: *See—*
Burton, Derek Rodney; Judd, Bertie William; and Collier, Leslie,3,425,486.

Judd, Claude I.: *See—*
Biel, John H.; and Judd, Claude I.,3,454,554.
Biel, John H.; and Judd, Claude I.,3,454,698.
Brukker, Alexander E.; and Judd, Claude I.,3,435,041.
Drukker, Alexander E.; and Judd, Claude I.,3,435,042.

Judd, Claude I.; Drukker, Alexander E.; and Biel, John H., to Colgate-Palmolive Company. 5-(N-benzyl-N-lower alkylamino alkylene)-5H- dibenzo [α,d] cycloheptenes. 3,435,073, 3-25-69, Cl. 260-570.8
Suh, John T.; and Judd, Claude I.,3,420,865.

Judd, Duane E., to Bausch & Lomb, Incorporated. Metallurgical optical semi-objective of 8.0X magnification. 3,428,389, 2-18-69, Cl. 350-177.

Judd, Ronald I., to McDonnell Douglas Corporation. Fail safe seat support frame. 3,460,791, 8-12-69, Cl. 248-188.91

Judd, Ronald I., to Henry Engineering Company. Air line passenger seat. 3,468,582, 9-23-69, Cl. 297-445.

Judd, Sebastian F., to Chicago Pneumatic Tool Company. Trolley stoker apparatus for kilns. 3,441,151, 4-29-69, Cl. 214-32.

Judd, Sebastian F., to Chicago Pneumatic Tool Company. Lightweight, plastic, pneumatic feed leg. 3,455,212, 7-15-69, Cl. 91-467.

Judd, Sebastian F.; and Wickersheim, Frederick C., to Chicago Pneumatic Tool Company. Crust breaker with automatic air control valve. 3,446,291, 5-27-69, Cl. 173-17.

Judeinstein, Andre Jacques; and Tyszka, Jerzy Marek, to International Standard Electric Corporation. Sequential destructive read-out and rewrite thin- film memory arrangement. 3,438,012, 4-8-69, Cl. 340-174.

Judge, Dallas H. Mathematics instruction device. 3,452,455, 7-1-69, Cl. 35-31.

Judge, Darrell L.: *See—*
Inouye, George T.; and Judge, Darrell L.,3,435,337.

Judge, Donald L.; and Clewley, James R., to Industrial Metal Products Corporation. Straightening machine. 3,474,650, 10-28-69, Cl. 72-12.

Judge, John S.: *See—*
Bate, Geoffrey; Judge, John S.; Morrison, John R.; and Speliotis, Denis E.,3,460,968.

Judge, Leo F., Jr.: *See—*
Conklin, Edward J.; and Judge, Leo F., Jr.,3,424,849.

Judkins, Kenneth R.: *See—*
Irvine, Boyd W., Jr.; and Judkins, Kenneth R.,3,420,512.

Judson, Brian: *See—*
Wright, Thomas Henry; and Judson, Brian,3,481,004.

Judsonia Bronze Memorials, Inc. : *See—*
Wilson, Charles L., 3,423,864.

Jue, Lawrence S., to United States of America, Navy. Device for supply replenishment of an underwater habitat. 3,453,834, 7-8-69, Cl. 61-69.

Jufiyama, Susumu: *See—*
Asaka, Mitsuo; Komatsu, Makoto; and Jufiyama, Susumu,3,436,437.

Jugan Michael R.: *See—*
Lessmann, Gerhard P.; and Jugan Michael R.,3,456,400.

Jugle, Don B., to United States of America, Navy, mesne. Method of controlling the microstructure of a titanate ceramic. 3,472,614, 10-14-69, Cl. 23-51.

Jugle, Lawrence C., to Union Carbide Corporation. Air pollution measuring system. 3,479,869, 11-25-69, Cl. 73-170.

Jugler, John: *See—*
Harris, Everett A.; and Jugler, John,3,483,066.

Jugue, Bernard: *See—*
Grange, Bernard; Long, Charles-Jean; Jugue, Bernard; and Mallet, Roger,3,446,176.

Juhas, Michael S., to Veeder Industries Inc. Counting mechanism. 3,456,877, 7-22-69, Cl. 235-144.

Juhl, Paul. Support bracket for concrete forms. 3,472,477, 10-14-69, Cl. 249-219.

Juhlin, John A. Hot air heating system and individual non-leaking filters for the cold air registers thereof. 3,458,130, 7-29-69, Cl. 237-53.

Juhling, Lieselotte: *See—*
Petersen, Siegfried; Gold, Heinrich; Grundmann, Ekkehard; and Juhling, Lieselotte,3,461,130.

Juhola, Arvo J.; and Pferdehirt, Thomas A., to Mine Safety Appliances Company. Preparation of boron filaments in an electrical discharge. 3,438,884, 4-15-69, Cl. 204-164.

Juillard, Jacques; and Alleton, Jean Claude, to Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture. Two-phase fire-extinguishing compositions. 3,425,939, 2-4-69, Cl. 252-7.

Juillard, Pierre: *See—*
Lombard, Francis; and Juillard, Pierre,3,433,866.

Juillard, Yves, to Societe Alsacienne de Constructions Mecaniques de Mulhouse. Weft mixer for looms. 3,439,715, 4-22-69, Cl. 139-122.

Juillerat, Georges. Device for actuating openable cover members for watch face. 3,444,685, 5-20-69, Cl. 58-95.

Jukes, Norman Alfred, to Lucas, Joseph, (Industries) Limited. Ignition distributors. 3,444,339, 5-13-69, Cl. 200-22.

Jukes, Norman Alfred, to Lucas, Joseph, (Industries) Limited. Ignition distributors. 3,457,905, 7-29-69, Cl. 123-117.

Jukes, Norman Alfred, to Lucas, Joseph, (Industries) Limited. Spark ignition apparatus for internal combustion engines. 3,478,249, 11-11-69, Cl. 315-209.

Julian, Thomas T., Jr. Truck bed load binder. 3,446,515, 5-27-69, Cl. 280-179.

Juliano, Benedict: *See—*
Adams, Phillip; and Juliano, Benedict,3,422,108.

Julie, Loebe, to Julie Research Laboratories, Inc. Three-terminal amplifying circuit. 3,422,368, 1-14-69, Cl. 330-118.

Julie, Loebe, to Julie Research Laboratories, Inc. High precision potentiometer apparatus employing parallel resistors in an attenuator. 3,423,680, 1-21-69, Cl. 324-98.

Julie, Loebe, to Julie Research Laboratories, Inc. Potentiometer means for providing a standardized precision low voltage. 3,454,877, 7-8-69, Cl. 324-98.

Julie, Loebe, to Julie Research Laboratories, Inc. Sensitive regenerative amplifier. 3,467,912, 9-16-69, Cl. 330-104.

Julie, Loebe, to Julie Research Laboratories, Inc. RMS Signal measurement and conversion using fixed-level power-sensitive nulling networks. 3,486,110, 12-23-69, Cl. 324-99.

Julie Research Laboratories, Inc.: *See—*
Julie, Loebe, 3,422,368.
Julie, Loebe, 3,423,680.
Julie, Loebe, 3,454,877.
Julie, Loebe, 3,467,912.
Julie, Loebe, 3,486,110.

Julin, William N. Self-opening greeting cards. 3,481,061, 12-2-69, Cl. 40-124.1

Julius, John N. Bottle cap. 3,441,162, 4-29-69, Cl. 215-46.

Juliusburger, Hans Y.; and Stilwell, George R., Jr., to International Business Machines Corporation. Parallel to serial code converter. 3,460,132, 8-5-69, Cl. 340-347.

Jullien, Agricol, to Compagnie Saliniere de la Camargue 'Salicam'. Continuous loader for bulk material. 3,482,672, 12-9-69, Cl. 198-7.

Jullien, Alexandra F.: *See—*
Carron, Maurice Claude Ernest; and Jullien, Alexandra F.,3,422,086.

Jullien-Davin, Jean, to Crouzet. Deformable cam. 3,433,091, 3-18-69, Cl. 74-568.

Jullien, Irenee; and Pillard, Claude, to Centre Technique du Cuir. Apparatus for treating permeable sheets such as animal skins, leather and the like. 3,422,642, 1-21-69, Cl. 69-29.

Julow, Thomas M., to Bendix Corporation, The. Deceleration sensitive reaction for a fluid pressure servomotor control means. 3,434,759, 3-25-69, Cl. 303-24.

Julow, Thomas M., to Bendix Corporation, The. Deceleration sensitive reaction for a fluid pressure servomotor. 3,452,644, 7-1-69, Cl. 91-367.

Julow, Thomas M.; and French, Charlie N., to Bendix Corporation, The. Servomotor control means with primary and secondary pressure sources. 3,434,388, 3-25-69, Cl. 91-6.

Jumelle, Louis Francois, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Adjustable exhaust unit for turbojet propulsion engines. 3,486,699, 12-30-69, Cl. 239-265.25
Jumper, Henry M., to Wix Corporation. Fuel-water separator and filter. 3,465,883, 9-9-69, Cl. 210-307.
Junck, John A.; and Rice, Roger A., to Caterpillar Tractor Company. Balancing of gravitational forces in a vertically disposed valve spool. 3,430,657, 3-4-69, Cl. 137-625.67
Junck, John A.: *See*—
Beyers, Marvin E.; Brown, Mackenzie P.; Carter, John W.; Junck, John A.; Lauterbach, Jerre F.; and Winters, Frank H.,3,463,190.
Bianchetta, Donald L.; Junck, John A.; and Kokaly, Joseph,3,444,948.
Jessen, Henry J.; Junck, John A.; and Rice, Roger A.,3,449,845.
June, Ronald K.: *See*—
Kuhre, Calvin J.; and June, Ronald K.,3,449,089.
Kuhre, Calvin J.; and June, Ronald K.,3,480,332.
Juneau, Paul W., Jr., to United States of America, Air Force. Curing system for ethoxyline resins consisting of a solution of phosphomolybdic acid and a hydroxy phosphate ester. 3,433,769, 3-18-69, Cl. 260-58.
Jung, Erland Viktor, to Aktiebolaget Landsverk. Pulp press. 3,470,815, 10-7-69, Cl. 100-127.
Jung, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polyamide moldings. 3,470,199, 9-30-69, Cl. 264-310.
Jung, Heinz, to Reiner, Ernst Kommanditgesellschaft Feinmechanik und Apparatebau. Apparatus for adjusting settable printing wheels disposed on a bearing sleeve. 3,482,512, 12-9-69, Cl. 101-110.
Jung, Herbert Ferdinand: *See*—
Scheinpflug, Hans; Jung, Herbert Ferdinand; and Schrader, Gerhard,3,459,857.
Jung, Ingvar Karl Einar: *See*—
Hillander, Oscar Hilding; and Jung, Ingvar Karl Einar,3,454,098.
Jung, James E.: *See*—
Curtis, Russell R.; Schlensker, Albert L.; and Jung, James E.,3,458,948.
Jung, Jean-Pierre: *See*—
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann, Peter,3,455,969.
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann, Peter,3,462,463.
Jung, Johann; and Koenig, Karl-Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Hydrazonium salts. 3,467,712, 9-16-69, Cl. 260-583.
Jung, Manfred: *See*—
Cramer, Ulrich; Jung, Manfred; and Weinmann, Karl,3,450,417.
Jung, Margarete; Becker, Harald; and von Doehren, Hans, to Varta Aktiengesellschaft. Silver-containing catalytically active particulate material and electrode therefrom. 3,479,276, 11-18-69, Cl. 204-290.
Jung, Richard R., to Clark Equipment Company. Bridging apparatus. 3,439,451, 4-22-69, Cl. 49-33.
Jung, Richard R., to Clark Equipment Company. Pallet conveyor arrangement. 3,443,838, 5-13-69, Cl. 302-29.
Jung, Richard R., to Clark Equipment Company. Apparatus to compensate for off-center loading on a material handling device having inflatable fluid pads. 3,466,010, 9-9-69, Cl. 254-93.
Jung, Richard R., to Clark Equipment Company. Pallet conveyor withlock mechanism. 3,480,126, 11-25-69, Cl. 193-35.
Jung, Richard, to Steinmuller, L. & C., G.m.b.H. Discharging device for silos. 3,451,565, 6-24-69, Cl. 214-17.
Jung, Richard, to Sulzer Brothers Limited. Piston rod seal. 3,458,208, 7-29-69, Cl. 277-154.
Jung, Richard, to Steinmuller, L. & C., G.m.b.H. Rotary tubular conveyor with flexible hollow shaft. 3,460,722, 8-12-69, Cl. 222-410.
Jung, Richard; and Gottesleben, Hilmar, to Steinmuller, L. & C., G.m.b.H. Apparatus for conveying pourable goods. 3,471,063, 10-7-69, Cl. 222-167.
Junge, Albert E., to PPG Industries, Inc. Glass compositions. 3,485,646, 12-23-69, Cl. 106-47.
Junge, Albert E.; and Chabal, Joseph, to PPG Industries, Inc. Colored, transparent, durable titania films on glass. 3,421,921, 1-14-69, Cl. 106-287.
Junge, Albert E.; and Chabal, Joseph, to PPG Industries, Inc. Tinted mirror. 3,457,096, 7-22-69, Cl. 117-35.
Jungermann, Eric; and Guttmann, Andrew T., to Armour and Company. Antiseptic detergent compositions containing halogenated phenoxy diphenyl phosphinic acids and salts thereof. 3,485,760, 12-23-69, Cl. 252-106.
Jungermann, Eric: *See*—
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M.,3,424,788.
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M.,3,432,547.
Jungermann, Erick; and Taber, David, to Armour and Company. Synergistic antibacterial compositions. 3,445,398, 5-20-69, Cl. 252-107.
Junghans Aktiengesellschaft, Gebruder, Messrs.: *See*—
Kaiser, Paul, 3,422,764.
Jungner, Bengt Gosta Ingmar: *See*—
Jungner, Olov Gunnar Hugo; and Jungner, Bengt Gosta Ingmar,3,474,913.
Jungner Instrument AB: *See*—
Johansson, Gillis Rune, 3,438,872.
Johansson, Gillis Rune, 3,441,490.
Kihlberg, Gunnar A., 3,469,172.
Jungner, Olof Gunnar Hugo, to AB Medicinsk-Kemiska Laboraloriet Calab. Automatic pipetting device. 3,476,518, 11-4-69, Cl. 23-259.
Jungner, Olov Gunnar Hugo; and Jungner, Bengt Gosta Ingmar, to Aktiebolaget Autokemi. Rack for test tubes. 3,474,913, 10-28-69, Cl. 211-74.
Jungster, Lore: *See*—
Yanai, Hideyasu S.; and Jungster, Lore,3,468,976.
Junk, Dieter: *See*—
Muller, Gernot; and Junk, Dieter,3,436,913.
Junker, Arnold E., to Avco Corporation. Seal for a high speed shaft. 3,430,967, 3-4-69, Cl. 277-137.
Junker, Bernhard T.; and Hedrick, Ross M., to Monsanto Company. Continuous polymer casting machine and process. 3,422,178, 1-14-69, Cl. 264-216.
Junker, Gerhard A., to Bauer & Schaurte. Process for tightening screws. 3,443,302, 5-13-69, Cl. 29-428.
Junker, Joseph F.: *See*—
Aclin, John J.; and Junker, Joseph F.,3,464,355.
Junker, Thomas J., to United States Steel Corporation, mesne. Method of reducing deposition of solids and tarry materials from a gaseous effluent in the oxidation of an organic hydrocarbon to produce phthalic anhydride. 3,471,521, 10-7-69, Cl. 260-346.4
Junkermann, Wolfgang, to Babcock & Wilcox Limited. Heat exchanger. 3,435,890, 4-1-69, Cl. 165-145.
Junkermann, Wolfgang; and Sachse, Bruno, to Babcock & Wilcox, Limited. Circulating pump for an integral nuclear reactor. 3,437,559, 4-8-69, Cl. 176-87.
Junkers & Co., GmbH: *See*—
Haag, Franz; and Huber, Ludwig, 3,447,878.
Haag, Franz, 3,469,929.
Junkins, James S.: *See*—
Hindman, Clarence B.; and Junkins, James S.,3,459,210.
Juno, Alvin R., to First National Bank, mesne. Litter collector-pulverizer. 3,449,780, 6-17-69, Cl. 15-4.
Junod-Deile, Marie-Louise. Child's play pen. 3,430,271, 3-4-69, Cl. 5-93.
Junod, John E.: *See*—
Mitzelfelt, Richard C.; Leiter, Leigh D.; and Junod, John E.,3,422,730.
Junta, Barbara: *See*—
Pan, Samuel C.; Principe, Pacifico A.; and Junta, Barbara,3,431,174.
Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A.,3,429,778.
Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A.,3,429,779.
Juntikka, Oscar W.,: *See*—
Morris, William Whitby, 3,482,807.
Jura, Stanislav, to Vyzkumny Ustav matematickych stroju. Apparatus for driving a movable tape. 3,452,909, 7-1-69, Cl. 226-50.
Jura, Stanislav, to Vyzkumny ustav matematickych stroju. Low friction data tape unit. 3,472,436, 10-14-69, Cl. 226-50.
Juranville, Henri G. Oscillator detector. 3,457,465, 7-22-69, Cl. 317-146.
Jurascheck, Richard: *See*—
Kannegiesser, Herbert; and Jurascheck, Richard,3,434,910.
Kannegiesser, Herbert; and Jurascheck, Richard,3,442,426.
Juraschek, Richard: *See*—
Kannegiesser, Herbert; and Juraschek, Richard,3,425,142.
Kannegiesser, Herbert; and Juraschek, Richard,3,482,341.
Jurasek, Stanley J., to Union Steel Products Company. Material handling container. 3,442,231, 5-6-69, Cl. 108-53.
Jurasova, Nina Vasilievna: *See*—
Kapitanov, Nikolai Nikolaevich; Petrova, Natalia Petrovna; and Jurasova, Nina Vasilievna,3,482,428.
Jurczenia, Edward T., to United States Tobacco Company. Container and closure therefor. 3,470,930, 10-7-69, Cl. 150-0.5
Jureit, John Calvin, to Automated Building Components, Inc. Joint. 3,479,783, 11-25-69, Cl. 52-584.
Jureit, John Calvin; and Coovert, Gilbert T., to Automated Building Components, Inc. Corner joint and connector plate therefor. 3,427,055, 2-11-69, Cl. 287-20.92
Jureit, John C., to Automated Building Components, Inc. Hidden fastener. 3,472,118, 10-14-69, Cl. 85-13.
Jureit, John C.; and Csakvary, Oscar, to Automated Building Components, Inc. Wooden framing fabrication system. 3,443,513, 5-13-69, Cl. 100-53.
Jureit, William E., to Automated Building Components, Inc. Bolthole reinforcing plate. 3,480,305, 11-25-69, Cl. 287-20.92
Jurenz, Rolf, to VEB Pentacon Dresden Kamera- und Kinowerke. Reflex viewfinder. 3,464,338, 9-2-69, Cl. 95-42.

Jurenz, Rolf: *See—*
Trankner, Werner; and Jurenz, Rolf,3,465,660.
Jurgens, John, Jr.: *See—*
Di Giulio, Edmund M.; Jurgens, John, Jr.; and Peterson, Niels G.,3,420,422.
Juric, Slavko T. Tubular cracking furnace. 3,467,503, 9-16-69, Cl. 23-288.
Jurick, Martin H.: *See—*
Gunderson, Robert O.; Valentine, Sidney L.; Jurick, Martin H.; and Higashi, Paul,3,426,328.
Jurid Werke G.m.b.H.: *See—*
Ehlers, Hans Reinhard, 3,451,508.
Volker, Ulrich; and Gerloff, Gunter, 3,437,458.
Volker, Ulrich; Fabian, Heinz; and Mertl, Klaus, 3,485,331.
Wagenfuhrer, Heinrich, 3,455,180.
Yolker, Ulrich; Gerloff, Gunter; and Haseloff, Heinz, 3,435,927.
Jurik, Rudolf; and Dvorak, Ludvik, to SVIT narodni podnik. Method of making a summer shoe. 3,432,869, 3-18-69, Cl. 12-145.
Jurisch, Wilhelm, to Daimler-Benz Aktiengesellschaft. Installation for converting mechanical control movements into hydraulic control pressures. 3,469,771, 9-30-69, Cl. 230-114.
Jurist, John M., Jr.; and Selle, Wilbur A. Vibratory bone density determination method and apparatus. 3,477,422, 11-11-69, Cl. 128-2.
Jurk, Rolf F.: *See—*
Gattner, Gunther E.; and Jurk, Rolf F.,3,430,198.
Jurken, Edward; and Poulakos, Paul J. Suppling machine. 3,423,967, 1-28-69, Cl. 69-33.
Jurschewitz, Paul Artur Waldemar. Electric thread dryer. 3,461,262, 8-12-69, Cl. 219-10.61
Jursich, Myron J.; and Aitken, Thomas, to Nalco Chemical Company. Method of improving dry strength of paper. 3,424,650, 1-28-69, Cl. 162-175.
Jursich, Myron J.; and Randich, Gail T., to Nalco Chemical Company. Acrylamide terpolymers and their use in paper making process. 3,450,680, 6-17-69, Cl. 260-78.5
Jursik, James: *See—*
Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H.,3,480,795.
Gorbatenko, George G.; Jursik, James; Kimmel, Milton J.; Razi, Syed; and Wilson, Norman D.,3,460,131.
Jurta, George E. Spherical incline braiding apparatus. 3,478,642, 11-18-69, Cl. 87-50.
Juskevic, John A.: *See—*
Florkowski, John Anthony, 3,477,577.
Just, Christian, to Maschinenfabrik Rieter A.G. Apparatus and method for reducing fiber bales. 3,470,585, 10-7-69, Cl. 19-80.
Just, Christian, to Rieter Machine Works, Ltd. Grid for cleaning machines. 3,470,588, 10-7-69, Cl. 19-202.
Just, Jerome O.; and Stern, Howard W., to Aquatic Controls Corporation. Aquatic pickup and unloading apparatus. 3,477,213, 11-11-69, Cl. 56-9.
Just, Marcel: *See—*
Ivernel, Alix; and Just, Marcel,3,453,084.
Just, Richard: *See—*
Waly, Adnan; Just, Richard; Schwartzman, Leonard; and Alster, David I.,3,426,197.
Justh, Bruce; and Zinky, William R., to Technical Operations, Incorporated. Hologram magnification. 3,427,090, 2-11-69, Cl. 350-3.5
Justi, Eduard; and Winsel, August, to Siemens Aktiengesellschaft, and Varta Aktiengesellschaft. Method and apparatus for reducing the concentration polarization of a fuel cell. 3,428,491, 2-18-69, Cl. 136-86.
Justi, Eduard; and Winsel, August, to Siemens-Schuckertwerke Aktiengesellschaft, and VARTA Aktiengesellschaft. Process for reversible electrodialysis. 3,455,804, 7-15-69, Cl. 204-180.
Justice, Donald A., to Martin-Marietta Corporation. Centrifugal exerciser. 3,467,373, 9-16-69, Cl. 272-33.
Justice, Donald S. Method and apparatus for making piling. 3,466,879, 9-16-69, Cl. 61-535.
Justice, Ged H.; and Formaini, Richard E., to Allied Chemical Corporation. Process for producing urea-formaldehyde aqueous concentrates. 3,462,256, 8-19-69, Cl. 71-28.
Justice, Mary E., to Saint Pauls Church, The Rector, Church Wardens and Vestrymen of. Religious article. 3,431,958, 3-11-69, Cl. 150-52.
Justin Belt Company: *See—*
Nyberg, Stanley A.; and Yost, Joe, 3,432,895.
Justin Enterprises, Inc.: *See—*
Short, Robert J., 3,442,296.
Justinien, Marcel. Rotary helical body adapted for use on board water crafts. 3,426,721, 2-11-69, Cl. 115-19.
Justis, Charles E., Sr. Flush tank valve ball and rod coupling insert. 3,445,864, 5-27-69, Cl. 4-56.
Justis, Charles E., Sr. Double tapered teflon faucet washer. 3,467,133, 9-16-69, Cl. 137-329.04
Justis, Luther E., to Carling Brewing Company Incorporated. Missing bottle detector. 3,440,432, 4-22-69, Cl. 250-223.
Justis, Luther E., to Crown Cork & Seal Company, Incorporated, mesne. Method and apparatus for filling containers with carbonated liquid. 3,460,589, 8-12-69, Cl. 141-6.
Justis, Luther E.: *See—*
Englander, Robert A.; and Justis, Luther E.,3,481,108.
Juston, Paul: *See—*
Guillermard, Pierre; Juston, Paul; and Detuncq, Yves,3,455,963.
Justus, Edgar J, to Beloit Corporation. Stationary pocket feeder apparatus for digester. 3,432,382, 3-11-69, Cl. 162-246.
Jusyk, Stanley J., to United Aircraft Corporation. Fluid tank shut-off valve and actuation system. 3,476,140, 11-4-69, Cl. 137-392.
Juszcyk, Leopold: *See—*
Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw,3,459,417.
Juszczyk, Leopold: *See—*
Budzynski, Kazimierz; Juszczyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; and Zakrawacz, Stanislaw,3,479,019.
Juten, Milford A.: *See—*
Williams, Frank H., 3,479,013.
Juten, Milford A.: *See—*
Bryson, Henry Knox; and Juten, Milford A.,3,458,227.
Skubic, Leroy F.; and Juten, Milford A.,3,449,883.
Juvan, Alois. Valve lapping apparatus. 3,472,082, 10-14-69, Cl. 74-74.
Juveland, Omar O., to Standard Oil Company (Indiana). Halogenated alpha-methylstyrene haloform adducts. 3,456,023, 7-15-69, Cl. 260-650.
Juveland, Omar O., to Standard Oil Company (Indiana). Novel polyimide-imines and polyamide-imines. 3,472,815, 10-14-69, Cl. 260-47.
Juveland, Omar O.; and Weisz, Robert G., to Standard Oil Company (Indiana). Synthetic rubber compositions containing oxidized polymer tackifiers. 3,474,159, 10-21-69, Cl. 260-897.
Juveland, Omar O.: *See—*
Peters, Edwin F.; and Juveland, Omar O.,3,475,399.
Juy, Lucien Charles Hippolyte. Change speed control device. 3,442,148, 5-6-69, Cl. 74-470.
Juzek, Robert C. Non-slip tuning peg for string instruments played by bows. 3,478,636, 11-18-69, Cl. 84-305.
Jyo, Yoshio: *See—*
Sakuragi, Taketami; Jyo, Yoshio; Akiyama, Shinichi; and Minami, Shoichiro,3,454,446.
K & H Industries, Inc.: *See—*
Kessell, John E., 3,453,654.
K & K Manufacturing, Inc.: *See—*
Murphy, George W., 3,436,058.
K & L Steelfounders and Engineers Limited: *See—*
Smith, Robert Arthur, 3,427,902.
K-Line Corporation: *See—*
Shallenberg, Robert L., 3,427,696.
Shallenberg, Robert L., 3,451,295.
K-M-P Pump Company, Inc.: *See—*
Parish, Albert A., 3,435,689.
K-S-H, Inc.: *See—*
Edelmann, Eugene F.; and Hawes, Richard S., III, 3,451,876.
Stahlhut, Leo G., 3,473,280.
Weaver, Joseph F., 3,440,786.
Weaver, Joseph F.; and Stahlhut, Leo G., 3,461,466.
Kaaber, Svend Henning: *See—*
Wolff, Per; and Kaaber, Svend Henning,3,440,219.
Kaai, Jiro; Ninomiya, Tsunehiko; Okumura, Shinji; and Hayashi, Koichi, to Ajinomoto Co., Inc. Coffee product and method of improving its flavor. 3,457,083, 7-22-69, Cl. 99-65.
Kaarlela, William T., to General Dynamics Corporation. Process for joining metals and ceramics having grossly different coefficients of thermal expansion. 3,421,202, 1-14-69, Cl. 29-473.1
Kaartinen, Niilo H., to Packard Instrument Company, Inc. Combustion apparatus, particularly for preparation of samples for radioactive isotope tracer studies. 3,485,565, 12-23-69, Cl. 431-3.
Kaashoek, Johannes; Versluis, Johannes Willem; and Barten, Piet Gerard Joseph, to U.S. Philips Corporation, mesne. Color television display device. 3,440,483, 4-22-69, Cl. 315-24.
Kabas, Guglielmo, to Grace, W. R., & Co. Cyclohexeneimine thiocyanates. 3,435,072, 3-25-69, Cl. 260-566.
Kabbe, Hans-Joachim; and Puls, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Arylsulfonylureas and arylsulfonylthioureas. 3,475,450, 10-28-69, Cl. 260-326.1
Kabel, Harold Arthur. Folding rake. 3,483,689, 12-16-69, Cl. 56-400.19
Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft: *See—*
Cramer, Christoph; Kluge, Gunter; and Woitke, Ernst, 3,451,204.
Glander, Fritz; and Pelz, Diethart, 3,484,539.
Klebl, Wolfram; Kubiak, Herbert; Staschewski, Harry; and Schatz, Friedrich, 3,455,098.
Kubiak, Herbert; Schatz, Friedrich; and Staschewski, Harry, 3,444,679.
Martin, Helmut, 3,466,384.

Martin, Helmut, 3,479,621.
Unger, Artur; Stehmann, Hans-Peter; and Heidenreich, Paul, 3,426,519.
Vogelsang, Herbert; and Goepfert, Joseph, 3,473,575.
Wagele, Rolf, 3,452,434.

Kabele, Stanislav: *See—*
Bucil, Frantisek; Hybl, Josef; Kabele, Stanislav; and Vecera, Milos,3,439,488.
Doudlebsky, Ctibor; Fajt, Ludvik; Bucil, Frantisek; and Kabele, Stanislav,3,434,184.

Kabele, Walter A., to Construction Machinery Company. Pump means. 3,451,343, 6-24-69, Cl. 103-103.

Kabelka, Peter J.: *See—*
Bray, Robert S.; Lozano, Luis J.; and Kabelka, Peter J.,3,469,430.
Palmer, Earl W.; Laigle, Roger E.; and Kabelka, Peter J.,3,421,866.

Kabell, Louis J., to Fairchild Camera and Instrument Corporation. Beam-junction scan converter. 3,439,214, 4-15-69, Cl. 315-11.

Kabelschlepp G.m.b.H.: *See—*
Haschek, Friedrich; and Loos, Kurt, 3,426,830.
Klein, Arthur, 3,425,481.
Loos, Kurt; and Haschek, Friedrich, 3,429,356.

Kabine, Kenneth Howard: *See—*
Anderson, Richard N.; and Kabine, Kenneth Howard,3,468,767.

Kabisch, Gerhard; and Herzog, Hans, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for carrying out catalytic hydrogenation reactions in the presence of suspension catalysts. 3,423,176, 1-21-69, Cl. 23-207.

Kabisch, Gerhard: *See—*
Herzog, Hans; and Kabisch, Gerhard,3,433,358.

Kablitz, Gert: *See—*
Engels, Gunther; Kablitz, Gert; and Wischmann, Heinrich,3,450,920.

Kabot, Frank J., to Perkin-Elmer Corporation, The. Elution chromatographic apparatus and method. 3,470,676, 10-7-69, Cl. 55-67.

Kabrick, Wallace J., to Gates Radio Company. Solid state audio driver circuit. 3,484,709, 12-16-69, Cl. 330-15.

Kabrishiki Kaisha Ricoh: *See—*
Yanagawa, Nobuyuki, 3,452,980.

Kabuki, Kimiaki: *See—*
Tsukada, Tomomichi; Kabuki, Kimiaki; and Nakazawa, Tokuo,3,428,595.

Kabushiki Kaisha: *See—*
Kaneko, Tamaki; and Kagari, Yoshiharu, 3,431,843.

Kabushiki Kaisha Aida Tekkosho: *See—*
Taniguchi, Naonori; and Wachi, Akira, 3,434,328.

Kabushiki Kaisha Aiden: *See—*
Hayasaka, Koro; Sato, Fukuji; Hattori, Tosio; and Sato, Takeshi, 3,426,234.

Kabushiki Kaisha Aoki Kensetsu: *See—*
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo, 3,483,842.

Kabushiki Kaisha Banbi: *See—*
Tabata, Kazutaka, 3,469,749.

Kabushiki Kaisha Copal: *See—*
Matsumoto, Masato; Samejima, Yukihide; and Watanabe, Kazunari, 3,426,162.

Kabushiki Kaisha Crown Sangyo: *See—*
Hattori, Tadamichi; and Nishida, Shingo, 3,439,995.
Hattori, Tadamichi, 3,464,442.

Kabushiki Kaisha Daikin Seisakusho: *See—*
Murakami, Kiyoharu, 3,433,340.

Kabushiki Kaisha Daini Seikosha: *See—*
Hirose, Yoshiyuki; and Hanaoka, Susumu, 3,435,611.
Nakagawa, Yasuichi, 3,451,211.
Terayama, Toshio, 3,441,753.

Kabushiki Kaisha Hattori Tokeiten: *See—*
Ichijo, Yasunori; and Nakamura, Yukio, 3,425,328.
Kitai, Kiyoshi, 3,457,844.

Kabushiki Kaisha Hitachi Seisakusho: *See—*
Abe, Ryoichi; and Miura, Takeo, 3,423,687.
Dodo, Taro; and Yamamoto, Manabu, 3,431,461.
Futaki, Hisao; and Ikegami, Kazutoshi, 3,466,465.
Futaki, Hisao, 3,484,611.
Kitagawa, Hiroshi; Inoue, Toshio; Kurokawa, Susumu; and Horigome, Shinkichi, 3,441,506.
Kumada, Akio, 3,447,217.
Kumada, Akio; and Hayama, Fumitada, 3,465,105.
Miura, Takeo; and Hirano, Chikafusa, 3,437,800.
Miwa, Ichiro; and Ohmura, Yoshito, 3,449,682.
Moriyama, Hiromi; Yamada, Hiroshi; Nakanishi, Tsunemoto; and Kiriyama, Toshikatsu, 3,443,312.
Ogura, Iwao, 3,442,591.
Okutsu, Shinkichi; Nariai, Noriyuki; Takagi, Takeshi; and Uehara, Keijiro, 3,447,958.
Ono, Minoru; and Nitta, Takahisa, 3,472,703.
Suzuki, Yoshihisa; and Tanaka, Yoshio, 3,432,716.
Takami, Katsumi; Yamada, Yahiko; Suda, Kyo; and Koga, Masashi, 3,453,434.
Takeyasu, Kiyo, 3,465,224.
Tokuyama, Takashi; and Uehara, Keijiro, 3,447,237.
Tomura, Teruichi, 3,443,096.
Tomura, Teruichi, 3,445,653.
Yamane, Mikiya, 3,454,828.
Yoshine, Hiroki, 3,435,148.

Kabushiki Kaisha Hokusan: *See—*
Tatii, Munehisa, 3,467,968.

Kabushiki Kaisha Honda Gijutsu Kenkyusho: *See—*
Honda, Soichiro; and Okamoto, Yoshinori, 3,435,708.
Okamoto, Yoshinori; and Onda, Takanori, 3,421,384.
Okamoto, Yoshinori, 3,438,277.
Onda, Takanori, 3,464,280.
Tagami, Katsutoshi, 3,424,974.
Washizawa, Yoshikazu; and Matsuzawa, Hiroto, 3,464,510.
Yoshioka, Tomoaki; and Sato, Yasuo, 3,454,397.
Yoshioka, Tomoaki, 3,486,395.
Yoshioka, Tomoaki; and Fukuchi, Kiyoshi, 3,486,396.

Kabushiki Kaisha Ichikin Kogyosha: *See—*
Kawaguchi, Hisayuki, 3,459,034.

Kabushiki Kaisha Imamura Seisakusho: *See—*
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi, 3,426,904.

Kabushiki Kaisha Inouye Shokai (Inouye & Co., Ltd.): *See—*
Chimura, Kihachi, 3,451,347.

Kabushiki Kaisha Keihin Seiki Seisakusho: *See—*
Sakuma, Masao, 3,431,944.

Kabushiki Kaisha Kokuei Kikai Seisakusho: *See—*
Kinoshita, Yoshio, 3,460,662.

Kabushiki Kaisha Komatsu Seisakusho: *See—*
Umeda, Haruhiko; Ikemoto, Kenji; and Suzuki, Mitsuaki, 3,437,187.

Kabushiki Kaisha Koparu: *See—*
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Minoru, Ohtake, 3,450,969.
Sato, Takayoshi; and Ueda, Hiroshi, 3,455,227.
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Otake, Minoru, 3,461,786.

Kabushiki Kaisha Maruto Seisakusho: *See—*
Naito, Toru; and Nishiyama, Michio, 3,451,386.

Kabushiki Kaisha Meiki Seisakusho: *See—*
Jinno, Minoru, 3,435,966.

Kabushiki Kaisha Mitani Valve: *See—*
Tanaka, Noboru, 3,484,047.

Kabushiki Kaisha Nattori Tokeiten: *See—*
Fukuyo, Hitohiro; and Tabuchi, Norio, 3,435,368.

Kabushiki Kaisha Negishi Kogyo Kenkyusho: *See—*
Negishi, Eizaburo, 3,447,299.
Negishi, Eizaburo, 3,450,166.

Kabushiki Kaisha Nihon Seikosho: *See—*
Oikawa, Tadashi; and Yaguchi, Hiroyasu, 3,469,400.

Kabushiki Kaisha Ricoh: *See—*
Fukushima, Yoshio, 3,420,153.
Fukushima, Yoshio, 3,435,745.
Fukushima, Yoshio, 3,486,428.
Fuwa, Zyoichi, 3,485,152.
Hirata, Shinichi, 3,429,415.
Hiruma, Kenji, 3,421,407.
Koizumi, Yutaka, 3,456,515.
Murayama, Noboru, 3,482,215.
Umahashi, Minoru; and Yamakawa, Hitoshi, 3,436,523.
Umahashi, Minoru; and Yamakawa, Hitoshi, 3,478,665.
Yanagawa, Nobuyuki, 3,448,980.

Kabushiki Kaisha Rinnai Seisakusho: *See—*
Hayashi, Kanekichi; and Naito, Susumu, 3,434,791.

Kabushiki Kaisha Sankei Seisakusho: *See—*
Furuichi, Masayoshi, 3,429,578.
Watanabe, Yoshiyuki, 3,439,558.

Kabushiki Kaisha Sanko Seisakusho: *See—*
Kawanami, Shunpei, 3,431,709.

Kabushiki Kaisha Suwa Seikosha: *See—*
Matsuzawa, Masanao; Imahashi, Issei; and Nakamura, Koichi, 3,435,311.
Miyasaka, Mamoru, 3,470,688.
Ono, Tsuneyoshi; Kamijo, Noriyuki; and Ootsuki, Chihiro, 3,470,687.
Ooki, Toshihiko, 3,482,392.
Yamamura, Katsumi; and Hayashi, Shinichi, 3,475,290.

Kabushiki Kaisha Suwa Seikoshi: *See—*
Futagawa, Yoshikiyo; and Komatsu, Chiaki, 3,481,138.

Kabushiki Kaisha Tadano Tekkosho: *See—*
Shinohara, Shinitsu; and Hanada, Masatosi, 3,468,431.
Shinohara, Shinitsu, 3,471,034.

Kabushiki Kaisha Tajima Seisakusho: *See—*
Kawaguchi, Toshiji, 3,482,798.

Kabushiki Kaisha Takeda Seisakusho: *See—*
Nishi, Junjiro, 3,484,853.

Kabushiki Kaisha, Tec: *See—*
Matsumoto, Masato; Samejima, Yukihide; and Watanabe, Kazunari, 3,426,162.
Kabushiki Kaisha Toyoda Jido Shokki Seisakusho: *See—*
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu, 3,457,597.
Kabushiki Kaisha Toyota Chuo Kenkyusho: *See—*
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu, 3,457,597.
Kabushiki Kaisha Yashica: *See—*
Miyauchi, Hideo, 3,451,324.
Kabushiki Kaisha Yashica Shibuya-ku: *See—*
Ogihara, Mamoru, 3,460,450.
Kabushiki Kaisha Yaskawa Denki Seisakusho: *See—*
Tanaka, Tameo, 3,476,952.
Kabushiki Kaisha Yokogawa Denki Srisakusho (Yokogawa Electric Works, Ltd.): *See—*
Tomota, Miyaji, 3,478,256.
Kabushiki-Kaisha Dokosha: *See—*
Yanagisawa, Takere, 3,477,888.
Kabushikikaisha G.I.C.: *See—*
Kobori, Yasusaburo, 3,450,414.
Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.): *See—*
Hirokawa, Yoichi, 3,437,899.
Hojo, Takeshi, 3,452,444.
Kawada, Shin-ichi, 3,451,139.
Kawada, Shin-Ichi, 3,461,568.
Ochiai, Noriomi, 3,465,362.
Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric Works, Ltd.): *See—*
Saito, Bunjiro; and Suga, Tateo, 3,439,200.
Tomota, Miyaji; and Saito, Bunjiro, 3,441,821.
Yamanaka, Takashi; Kamino, Tadashi; and Ikeda, Hiroshi, 3,461,309.
Kach, Alfred, to Patelhold Patentverwertungs- und Elektro-Holding AG. Cavity resonators for microwaves coupled together by variable capacitance diode. 3,423,701, 1-21-69, Cl. 333-83.
Kach, Alfred, to Patelhold Patentverwertungs- und Electro-Holding AG. Temperature stabilized cavity resonator. 3,480,889, 11-25-69, Cl. 333-83.
Kachergis, Henry J., to Scovill Manufacturing Company. Diverter valve assembly. 3,428,089, 2-18-69, Cl. 137-625.29
Kachman, Robert D. Pourer for liquor bottles. 3,434,636, 3-25-69, Cl. 222-567.
Kacmarek, Andrew J.; and Solomon, Irvine J., to IIT Research Institute. Process for the preparation of ozonates and compositions resulting therefrom. 3,421,861, 1-14-69, Cl. 23-315.
Kacqeus, Steven L. Web dispensing machine. 3,460,509, 8-12-69, Cl. 118-41.
Kaczerginski, Alexandre, to Societe Europeenne d'Isolateurs en Verne Sediver. Apparatus for producing and assembling components of electrical insulators. 3,468,740, 9-23-69, Cl. 156-431.
Kaczmarek, Ronald L.: *See—*
Lynk, Charles N., Jr.; and Kaczmarek, Ronald L.,3,483,473.
Kaczorowski, John, Jr., to Weston Instruments, Inc. Linear conductance switch. 3,434,042, 3-18-69, Cl. 323-74.
Kaczorowski, John, Jr.: *See—*
Nordahl, John G.; and Kaczorowski, John, Jr.,3,434,041.
Kadah, Hassan B. Solid state pack. 3,420,942, 1-7-69, Cl. 174-15.
Kadah, Hassan B. Panel mount. 3,434,013, 3-18-69, Cl. 317-99.
Kadatz, Rudolf: *See—*
Seeger, Ernst; Engel, Wolfhard; and Kadatz, Rudolf,3,457,265.
Kade, Peter: *See—*
Tauchert, Klaus; Munster, Horst; Hettich, Bernhard; Konig, Gerhard; Hofheinz, Karlheinz; and Kade, Peter,3,482,511.
Kadelbach, Volker: *See—*
Scholl, Hermann; Kadelbach, Volker; and Reichardt, Wolfgang,3,439,564.
Scholl, Hermann; Rabus, Friedrich; Eichler, Dieter; Kadelbach, Volker; Reichardt, Wolfgang; and Schmidt, Peter Jurgen,3,433,101.
Kaden, Werner: *See—*
Stehle, Heinz; Kaden, Werner; and Schaal, Alfred,3,444,351.
Kader Industrial Company Limited: *See—*
Hok-Shou, Ting, 3,476,389.
Kadereit, Hans-Gunther: *See—*
Goser, Karl; and Kadereit, Hans-Gunther,3,460,102.
Kadlcik, Bozetech: *See—*
Plechac, Bohuslav; Velisek, Vaclav; Machovsky, Vaclav; Kadlcik, Bozetech; and Molcan, Stefan,3,429,150.
Kadlec, Charles, to BLH Electronics, Inc. Aircraft weight measurements. 3,426,586, 2-11-69, Cl. 73-88.5
Kadlec, Ladislav, to Simmonds Precision Products, Inc. Temperature compensated liquid quantity capacitor. 3,460,011, 8-5-69, Cl. 317-247.
Kado, Masaru, to Ihara Chemicals Company Limited. Method for controlling phytopathogenic fungi and bacteria on plants by applying dichloroalkenyl- hydrophthalimides thereto. 3,463,856, 8-26-69, Cl. 424-274.
Kado, Staoshi: *See—*
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi,3,459,538.
Kadooka, Toshio: *See—*
Tsumura, Takao; Kadooka, Toshio; Suzuki, Keisuke; and Kitayama, Noboru,3,444,553.
Kadota, Osamu: *See—*
Ozeki, Saburoji; Kimura, Kenji; Shimasaki, Soichi; Izuhara, Torao; Kadota, Osamu; and Sakurai, Kozi,3,444,806.
Kadotani, Makoto: *See—*
Hayakawa, Masashi; Kadotani, Makoto; and Ishikawa, Kunio,3,427,125.
Kadowaki, Kouichi: *See—*
Tsuji, Shigeru; Hayashi, Kazutami; Kadowaki, Kouichi; and Sato, Katsuo,3,436,201.
Kadri, Fred V.: *See—*
Bishop, John D.; Hasson, Murray R.; and Kadri, Fred V.,3,461,405.
Kaeck, Willmot Richard. Tool for marking circumferentially spaced holes. 3,457,651, 7-29-69, Cl. 33-189.
Kaelin, Joseph Richard. System for surface aeration of liquid. 3,462,132, 8-19-69, Cl. 261-87.
Kaemmer, Herbert H., to Automatic Switch Company. Valve operated by fluidic device. 3,454,045, 7-8-69, Cl. 137-596.18
Kaempf, Arthur J. Gas operated firearm. 3,443,477, 5-13-69, Cl. 89-128.
Kaenan, Joseph P., to Patch Rubber Company. Portable tire repair device. 3,434,183, 3-25-69, Cl. 18-45.
Kaenel, Reginald A., to Bell Telephone Laboratories, Incorporated. Magnetic domain wall recognizer. 3,436,748, 4-1-69, Cl. 340-174.
Kaenel, Reginald A., to Bell Telephone Laboratories, Incorporated. Asynchronous magnetic shift register circuit. 3,447,142, 5-27-69, Cl. 340-174.
Kaenel, Reginald A., to Bell Telephone Laboratories, Incorporated. Magnetic domain wire shift register. 3,452,337, 6-24-69, Cl. 340-174.
Kaenel, Reginald A., to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation inverter. 3,454,937, 7-8-69, Cl. 340-174.
Kaenel, Reginald A.; and Smith, James L., to Bell Telephone Laboratories, Incorporated. Information converter employing a magnetic domain wall medium. 3,466,628, 9-9-69, Cl. 340-174.
Kaenel, Reginald A.; and Smith, James L., to Bell Telephone Laboratories, Incorporated. Magnetic wire gating circuit. 3,470,543, 9-30-69, Cl. 340-174.
Kaenel, Reginald A.: *See—*
Bobeck, Andrew H.; and Kaenel, Reginald A.,3,460,112.
Gianola, Umberto F.; Kaenel, Reginald A.; and Scovil, Henry E. D.,3,430,001.
Gianola, Umberto F.; Kaenel, Reginald A.; and Smith, James L.,3,482,224.
Haag, Arthur V.; and Kaenel, Reginald A.,3,453,606.
Kaepernik, William Albert; and Listner, Gregory Julius, to Ethicon, Inc. Suture package. 3,444,994, 5-20-69, Cl. 206-63.3
Kaerwer, George, to Tip-O-Matic Company. Basketball goal ball ejector. 3,471,150, 10-7-69, Cl. 273-1.5
Kaeslin, Oscar E. Vertical shelf and clothes pole support. 3,478,891, 11-18-69, Cl. 211-90.
Kaess, David, Jr., to Pullman Incorporated. Air cooled heat exchanger. 3,447,598, 6-3-69, Cl. 165-67.
Kaess, Franz; and Kick, Otto, to Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft. Hot gas filter. 3,436,898, 4-8-69, Cl. 55-269.
Kaessmann, Hans-Jurgen. Apparatus for the treatment of fractures of tubular bones. 3,441,017, 4-29-69, Cl. 128-92.
Kaestner, Paul T.: *See—*
Rosin, Seymour; and Kaestner, Paul T.,3,459,465.
Kaether, Hans U. Method and device for improving the temperature equalization of gases in tunnel furnaces and ovens. 3,445,098, 5-20-69, Cl. 263-28.
Kaether, Willy; and Dietzel, Walter, to Braunschweigische Maschinenbauanstalt. Method of and apparatus for reducing the moisture and residual sugar content of a bagasse passing through a diffuser. 3,475,214, 10-28-69, Cl. 127-5.
Kaffka, Karoly: *See—*
Ban, Tamas; Horvath, Lorand; Kaffka, Karoly; and Nadai, Bela,3,453,438.
Kafitz, Peter H.: *See—*
Aasted, Jorgen; and Kafitz, Peter H.,3,427,620.
Kafka, Wilhelm: *See—*
Albrecht, Cord; and Kafka, Wilhelm,3,466,581.
Albrecht, Cord; Kafka, Wilhelm; and Kullmann, Dieter,3,480,895.
Grunwald, Erich; and Kafka, Wilhelm,3,440,456.
Grunwald, Erich; and Kafka, Wilhelm,3,441,755.
Kafka, Wilhelm, to Siemens Aktiengesellschaft. Cooling system for superconductive or cryogenic structures. 3,444,307, 5-13-69, Cl. 174-15.
Kafka, Wilhelm, to Siemens Aktiengesellschaft. Electrical power transmission with superconducting power cables. 3,453,449, 7-1-69, Cl. 307-245.

Kafka, Wilhelm, to Siemens Aktiengesellschaft. Electric machine having a rotating superconducting excitation winding. 3,470,396, 9-30-69, Cl. 310-10.
Kafka, Wilhelm, to Siemens Aktiengesellschaft. Superconducting magnet coils. 3,483,493, 12-9-69, Cl. 335-216.
Kafka, Wilhelm; and Parsch, Claus-Peter, to Siemens Aktiengesellschaft. Cryostats for low-temperature cables. 3,431,347, 3-4-69, Cl. 174-15.
Kaga, Shinichiro: *See*—
Takahashi, Hidehiko; Kaga, Shinichiro; and Hirota, Sadao,3,466,364.
Kagan, Fred: *See*—
Birkenmeyer, Robert D.; Kagan, Fred; Magerlein, Barney J.; and Schneider, William P.,3,461,207.
Kagan, Harry. Shelf and/or tray. 3,447,489, 6-3-69, Cl. 108-30.
Kagan, Morton R., to International Business Machines Corporation. Continuously tunable pulsed laser system. 3,471,807, 10-7-69, Cl. 332-7.51
Kagan, Sholly. Audio compression amplifier. 3,449,684, 6-10-69, Cl. 330-29.
Kaganov, Alan Lawrence; and Turiansky, Iwan Wolodymyr, to Ethicon, Inc. Gas sterilizable package. 3,435,948, 4-1-69, Cl. 206-56.
Kagari, Yoshiharu: *See*—
Kaneko, Tamaki; and Kagari, Yoshiharu,3,431,843.
Kagawa, Masaru: *See*—
Maekawa, Tatsuo; Nakajima, Nobuo; and Kagawa, Masaru,3,473,973.
Kagawa, Toshihiro, to Shikoku Kasei Kogyo Company Limited. Process of producing trichorocyanuric acid. 3,474,096, 10-21-69, Cl. 260-248.
Kagelmann, Manfred: *See*—
Schneider, Walter; Reincke, Joachim; Blumenthal, Reinhard; Tschatzki, Lothar; and Kagelmann, Manfred,3,470,963.
Kageyama, Ikuzo; and Maruo, Keiichi, to Daikin Kogyo Co., Ltd. Trifluoromethylanilide derivatives. 3,485,872, 12-23-69, Cl. 260-559.
Kagiya, Tsutomu: *See*—
Fukui, Kenichi; Kagiya, Tsutomu; Narisawa, Shizuo; Maeda, Taneo; and Kobata, Mikio,3,476,712.
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; Toriuchi, Yahiko; and Matsumi, Shunji,3,446,776.
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; and Horie, Misato,3,466,251.
Kagiya, Tsutomu; Machi, Sueo; Hagiwara, Miyuki; and Kise, Seiichi, to Japan Atomic Energy Research Institute. Polymerization of ethylene by means of radical initiation using carbon dioxide as reaction medium. 3,471,463, 10-7-69, Cl. 260-94.9
Kagy, Charles W.: *See*—
Furry, Lyman B.; and Kagy, Charles W.,3,462,910.
Kah, Carl L. C., Jr.; and Slagel, Roger D. Sequencing valve. 3,460,560, 8-12-69, Cl. 137-119.
Kahale, Abed G.: *See*—
Beller, Wilbert E.; and Kahale, Abed G.,3,443,163.
Beller, Wilbert E.; and Kahale, Abed G.,3,445,676.
Kahanick, Stephen. Cat clawing pad. 3,486,485, 12-30-69, Cl. 119-1.
Kahata, Hisashi: *See*—
Takahashi, Yoshikazu; Kojima, Koujiro; Kahata, Hisashi; and Iwasaki, Iwao,3,453,101.
Kahl, Paul C.: *See*—
Ehrenfels, Alfred L.; and Kahl, Paul C.,3,476,898.
Kahlbacher, Anton. Device for spreading moist material on the ground. 3,420,451, 1-7-69, Cl. 239-666.
Kahlbacher, Anton. Snowplow accessory. 3,466,766, 9-16-69, Cl. 37-41.
Kahlbrock, Heinz: *See*—
Benowitz, Paul; and Kahlbrock, Heinz,3,443,022.
Kahle Engineering Company: *See*—
Napor, Carl A.; Engel, William T.; and Krumm, Charles G., 3,457,627.
Napor, Carl A.; and Engel, William T., 3,466,128.
Kahle, Gerald R., to Phillips Petroleum Company. Organolithium initiator plus halogen and halogen containing compound adjuvants for the preparation of diene polymers. 3,429,829, 2-25-69, Cl. 252-431.
Kahle, Gerald R.; and Buck, Ollie G., to Phillips Petroleum Company. Catalyst containing polyhalogen compound for production of amorphous 1-olefin polymers. 3,481,911, 12-2-69, Cl. 260-80.78
Kahle, Gerald R.; and Fodor, Lawrence M., to Phillips Petroleum Company. 1-Olefin polymerization process and catalyst. 3,479,330, 11-18-69, Cl. 260-93.7
Kahle, Gerald R.; and Fodor, Lawrence M., to Phillips Petroleum Company. 1-Olefin polymerization process and catalyst. 3,481,915, 12-2-69, Cl. 260-93.7
Kahle, Lloyd L.; and Shandor, John J., to Parker-Hannifin Corporation. Nozzle spray test device. 3,449,948, 6-17-69, Cl. 73-119.
Kahle, Otto; and Bauer, Ralf, to VEB Warnowwerft Warnemunde. Crane installations particularly for freighters. 3,429,453, 2-25-69, Cl. 212-8.
Kahlor, William L. Pipe laying tool. 3,436,110, 4-1-69, Cl. 294-15.
Kahn, Alan R.; and Spracklen, Stanford B., to Beckman Instruments, Inc. Microelectrode and method of making same. 3,436,329, 4-1-69, Cl. 204-195.
Kahn, Asher D. Dolly for burial vaults. 3,476,199, 11-4-69, Cl. 180-20.
Kahn, Charles Henri: *See*—
Williamson, David Theodore Nelson; Kahn, Charles Henri; and Fayolle, Leon,3,472,103.
Kahn, Donald J.; Furer, Frieder S.; and Robbins, Max L., to Esso Research and Engineering Company. Metal-containing detergent-dispersants for lubricants. 3,451,931, 6-24-69, Cl. 252-32.7
Kahn, Elliot; and Bobrowich, Alex, to Arrow Louver and Damper Corporation. Damper assembly. 3,484,990, 12-23-69, Cl. 49-91.
Kahn, Elliott H., to Kollsman Instrument Corporation. Optical ranging and detection system for submerged objects. 3,446,555, 5-27-69, Cl. 356-5.
Kahn, Herbert L.; and Chedester, Charles J., to Perkin-Elmer Corporation, The. Circuits for measuring the logarithm of the ratio of two quantities. 3,482,115, 12-2-69, Cl. 307-229.
Kahn, Manfred, to Sprague Electric Company. Controlled reduction and reoxidation of $BaTiO_3$ capacitors and resulting capacitor. 3,426,250, 2-4-69, Cl. 317-230.
Kahn, Manfred; Lindmayer, Joseph; and North, William D., to Sprague Electric Company. Transistor inductance. 3,443,236, 5-6-69, Cl. 330-12.
Kahn, Maurice M., to Boxal Beaurepaire S.A. Aerosol container. 3,435,998, 4-1-69, Cl. 222-402.24
Kahn, Robert D., to Fedtro, Inc. Dual-purpose display card and wall mounting. 3,423,059, 1-21-69, Cl. 248-316.
Kahn, Robert D., to Fedtro, Inc. Television demagnetizer. 3,445,730, 5-20-69, Cl. 317-157.5
Kahn, Robert D., to Fedtro, Inc. Multiple flashing light unit. 3,471,829, 10-7-69, Cl. 340-81.
Kahn, Robert D., to Fedtro, Inc. Insect electrocuting device. 3,473,251, 10-21-69, Cl. 43-112.
Kahn, Samuel J., to Universal Oil Products Company. Continuous alkylation process. 3,433,847, 3-18-69, Cl. 260-671.
Kahn, Samuel, to Universal Oil Products Company. Preparation of olefins. 3,445,538, 5-20-69, Cl. 260-677.
Kahn, Samuel, to Universal Oil Products Company. Preparation of alkali metal acetylides. 3,462,507, 8-19-69, Cl. 260-665.
Kahn, Samuel, to Universal Oil Products Company. Isomerization of 2,3-dimethylbutenes. 3,467,727, 9-16-69, Cl. 260-683.2
Kahn, Walter C., to Electro-Trace Corporation. Fluid-tight electrical enclosure. 3,446,909, 5-27-69, Cl. 174-71.
Kahn, William M., to Wright, Barry, Corporation. Data processing. 3,441,910, 4-29-69, Cl. 340-172.5
Kahne, Robert, to Merckle Fluzzeugwerke G.m.b.H. Inductive angular position transmitter. 3,439,256, 4-15-69, Cl. 323-51.
Kahng, Dawon: *See*—
Berglund, Carl N.; and Kahng, Dawon,3,462,700.
Hepplewhite, Ralph T.; and Kahng, Dawon,3,420,776.
Kahng, Dawon, to Bell Telephone Laboratories, Incorporated. Optical wave modulator. 3,464,762, 9-2-69, Cl. 350-150.
Kahng, Dawon; and Wemple, Stuart H., to Bell Telephone Laboratories, Incorporated. Surface-barrier diode transducer using high dielectric semiconductor material. 3,443,041, 5-6-69, Cl. 179-121.
Kahoun, John B.; and Stout, Gary D., to Consolidated Papers, Inc. Method and apparatus for magnetically measuring the thickness of a moving web and for engaging and disengaging said apparatus with the web. 3,462,680, 8-19-69, Cl. 324-34.
Kahre, Le Roy C., to Phillips Petroleum Company. Solvent removal from polyolefin in vented extruder with water addition. 3,476,736, 11-4-69, Cl. 260-93.7
Kahrs Maskiner Aktiebolag: *See*—
Ottosson, Par Axel Rune, 3,459,246.
Kai, Mitoshi: *See*—
Harada, Masao; Kai, Mitoshi; and Sagawa, Yasuyuki,3,421,313.
Kai, Tsunetoshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Explosive coating of metallic substrates with powder. 3,473,943, 10-21-69, Cl. 117-16.
Kaibara, Nobuhiro; Sawa, Yoshimi; Ichikawa, Takeo; Watanabe, Risaburo; and Igarashi, Osamu, to Diesel Kiki Kabushiki Kaisha. Fuel controlling device for injection-type combustion engines. 3,485,223, 12-23-69, Cl. 123-140.
Kaiden, Muneyuki: *See*—
Hida, Naoto; Kaiden, Muneyuki; Muraoka, Noboru; and Otsubo, Hideo,3,456,405.
Kaifesh, Michael W., to United States of America, Army. Self-cleaning track snow pad for track laying vehicles. 3,475,060, 10-28-69, Cl. 305-13.
Kail, John Alan Elliott: *See*—
Sandiford, Denis James Henry; and Kail, John Alan Elliott,3,470,274.
Kain, Oscar. Mirrored door apparatus. 3,439,452, 4-22-69, Cl. 49-143.
Kainer, Carl Edward: *See*—
Malm, Donald; and Kainer, Carl Edward,3,458,005.
Kainuma, Seizo: *See*—
Tsuya, Noboru; Inaba, Fumio; and Kainuma, Seizo,3,437,952.

Kaipainen, Arto; Rullgard, Ake; Skygge, Carl Gosta; and Sundqvist, Cnut, to Allmanna Svenska Elektriska Aktiebolaget. Arrangement for preventing shutdown of a nuclear reactor plant when the load on a turbine driven thereby decreases suddenly. 3,437,557, 4-8-69, Cl. 176-20.
Kaiser, Ado: *See*—
Gutmann, Hugo; Jaunin, Roland; Kaiser, Ado; and Zeller, Paul,3,459,799.
Kaiser Aerospace & Electronics Corporation: *See*—
Andersen, Robert Leslie; Izumi, Hideki Danny; and Stinehelfer, Jonathan Jerold, 3,475,622.
Kaiser, Albert D., Jr.: *See*—
Kerver, John K.; Kaiser, Albert D., Jr.; Heilhecker, Joe K.; and Mc Kinney, Joseph M.,3,481,400.
Kaiser Aluminum & Chemical Corporation: *See*—
Beatty, Earl C.; and Howard, Frank L., 3,475,167.
Beekes, Hugh A.; Herrmann, Thomas R.; Lipp, Melbourne A.; Olson, Henning H.; and Schleicher, Allen K., 3,466,845.
Bogantes, Marco A., 3,484,856.
Bowman, Jan, 3,473,737.
Clifford, Warren E., 3,443,889.
Clukey, Wayne H.; Alboucq, Robert L.; and Clack, Alan V., 3,442,786.
Day, Jeptha V., 3,486,850.
Doerr, Dale D.; and Ridout, Robert A., 3,457,759.
Foster, Thomas W. F., 3,484,089.
Goldschmidt, Hans; Gordon, Theodore J.; and Helmer, Olaf, 3,473,802.
Henrickson, Henry G., 3,451,367.
Henrickson, Henry G., 3,455,584.
Hildebrandt, Richard D., 3,421,991.
Hildebrandt, Richard D., 3,442,989.
Hildebrandt, Richard D.; and Clukey, Wayne H., 3,468,737.
Langewis, Cornelis; and Smith, Arthur Dean; also known as Smith, Dean A., 3,457,766.
Martinet, Jacques R., 3,443,974.
Martinet, Jacques R.; and Bowman, Jan, 3,468,526.
Mayberry, Marshall L.; and Martinet, Jacques R., 3,473,939.
Nowak, Thomas A., 3,481,391.
Olsen, George Franklin; and McLeod, Donald L., 3,445,099.
Peck, Albert C.; and Israel, Robert D., 3,481,705.
Roberts, Sidney G.; Fetzer, Maurice C.; and Hess, James B., 3,462,248.
Ross, Richard J.; and Fohlen, George M., 3,478,099.
Smith, Arthur Dean; and Langewis, Cornelis, 3,469,432.
Smith, Arthur Dean also known as; and Smith, A. Dean, 3,426,567.
Smith, Charles C.; and Ely, Everett E., 3,444,027.
Stoller, Jerry H., 3,450,519.
Kaiser, Arthur E.; and Fluke, Jefferson M., to Kaiser Seal Company, Inc. Pipe closure plug assembly. 3,467,271, 9-16-69, Cl. 220-24.5
Kaiser, Carl; and Zirkle, Charles L., to Smith Kline & French Laboratories. 2-Amino- or aminoalkylene-10',11'- dihydrospiro[cyclopropane - 1,5' - 5H- dibenzo(a,d)cycloheptenes] and the salts thereof. 3,423,461, 1-21-69, Cl. 260-570.5
Kaiser, Carl; and Zirkle, Charles L., to Smith Kline & French Laboratories. Aminocyclopropane derivatives of 5H-dibenzo[a,d] cycloheptenes. 3,449,427, 6-10-69, Cl. 260-570.8
Kaiser, Carl; and Zirkle, Charles L., to Smith Kline & French Laboratories. Benzhydyloxycyclopropylamines and the sas thereof. 3,462,491, 8-19-69, Cl. 260-570.
Kaiser, Carl; and Zirkle, Charles L., to Smith Kline & French Laboratories. 9-Cycloalkyl-lower alkyl-piperidylidene derivatives of xanthenes and thioxanthenes. 3,470,188, 9-30-69, Cl. 260-293.4
Kaiser, Carl; and Zirkle, Charles L., to Smith Kline & French Laboratories. Substituted piperidinoalkylthianaphthenes and benzofurans. 3,476,760, 11-4-69, Cl. 260-293.4
Kaiser, Carl; and Zirkle, Charles L., to Smith Kline & French Laboratories. Acridanyl cyclopropanecarboxylic acids. 3,485,844, 12-23-69, Cl. 260-279.
Kaiser, Donald W.: *See*—
Hill, Harry E.; and Kaiser, Donald W.,3,439,068.
Kaiser, Donald W.; and Zane, John K., to Olin Mathieson Chemical Corporation. Polyurethanes prepared from oxyalkylated cyanoguanidines. 3,434,982, 3-25-69, Cl. 260-2.5
Kaiser, Donald W.; and Zane, John K., to Olin Mathieson Chemical Corporation. Oxyalkylated nitrogen compounds. 3,438,986, 4-15-69, Cl. 260-249.6
Kaiser, Edward William; Rein, Arnold Robert; and Wahler, Richard Otto, to American Can Company. Method of and apparatus for making solderless can body blanks. 3,481,809, 12-2-69, Cl. 156-231.
Kaiser, Emil; and Fisher, Joseph D., to Armour Pharmaceutical Company. Treatment of hypercholesterolemia with the meso forms of 3,4-di(substituted phenyl)-3,4- hexanediol. 3,461,212, 8-12-69, Cl. 424-340.
Kaiser, Ewald, to Ickes-Braun Glasshouses, Inc. Dome with connected frame members and frame connecting member. 3,462,893, 8-26-69, Cl. 52-80.
Kaiser, Francis D., to Westinghouse Electric Corporation. Transformer and capacitor apparatus for three- phase electrical systems. 3,440,516, 4-22-69, Cl. 321-9.
Kaiser, Frederick A.: *See*—
Pullen, Cecil V.; and Kaiser, Frederick A.,3,460,559.
Kaiser, Fritz W., to Alpine Aktiengesellschaft. Flow channel for zig-zag classifiers. 3,437,202, 4-8-69, Cl. 209-136.
Kaiser, Fritz: *See*—
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt,3,462,528.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt,3,476,742.
Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang, to Boehringer, C. F., & Soehne GmbH. Acovenoside derivatives. 3,458,628, 7-29-69, Cl. 424-182.
Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang, to Boehringer, C. F., & Soehne GmbH. Helveticoside derivatives. 3,471,614, 10-7-69, Cl. 424-182.
Kaiser, Guenther: *See*—
Riedel, Anton; and Kaiser, Guenther,3,482,797.
Kaiser Gypsum Company, Inc.: *See*—
Darling, Arthur H.; and Weightman, Howard L., 3,453,160.
Papalia, Rocco, 3,478,479.
Kaiser, Herbert, to Avon Rubber Company Limited. Skive cutting machine. 3,483,784, 12-16-69, Cl. 83-215.
Kaiser, Hermann: *See*—
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann,3,428,577.
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann,3,428,578.
Kaiser, Hermann, to Eaton Yale & Towne, Inc. Switch mechanism. 3,485,973, 12-23-69, Cl. 200-61.45
Kaiser Industries Corporation: *See*—
Charyn, Fred P.; and Garrett, Hoke M., 3,428,156.
Mahin, William E., 3,467,167.
Kaiser, Jack N., to American Standard Inc. Plumbing fixture and fitting. 3,427,665, 2-18-69, Cl. 4-187.
Kaiser Jeep Corporation: *See*—
Edwards, David H., 3,462,571.
Shockey, Thomas N., 3,470,907.
Kaiser, Karl B., to Ingersoll Milling Machine Company, The. Indexable cutter blade. 3,434,190, 3-25-69, Cl. 29-95.
Kaiser, Karl B., to Ingersoll Milling Machine Company, The. Bearing support for tool spindles. 3,438,288, 4-15-69, Cl. 77-56.
Kaiser, Kurt, to Teldix Luftfahrt-Ausrustungs GmbH. Display apparatus for VTOL-aircraft. 3,449,713, 6-10-69, Cl. 340-27.
Kaiser, Paul, to Junghans Aktiengesellschaft, Gebruder, Messrs. Rifled projectile fuze for practice projectiles. 3,422,764, 1-21-69, Cl. 102-71.
Kaiser, Robert G., to Clark & Vicario Corporation. Conditioning papermaking stock. 3,432,036, 3-11-69, Cl. 209-211.
Kaiser, Robert, to Avco Corporation. Method of separating materials of different density. 3,483,968, 12-16-69, Cl. 209-1.
Kaiser Seal Company, Inc.: *See*—
Kaiser, Arthur E.; and Fluke, Jefferson M., 3,467,271.
Kaiser Steel Corporation: *See*—
Bergantini, Attilio R., 3,434,198.
Bowling, Lin W.; and Nyborg, Robert N., 3,486,285.
Grimoldi, Ranoldo H.; and Powers, Joseph E., 3,430,317.
Nyborg, Robert N., 3,428,170.
Powers, Joseph E.; and Sattler, Dennis W., 3,430,525.
Shipman, George, 3,447,843.
Kaiser, Wilhelm Jakob: *See*—
Dohr, Roman; and Kaiser, Wilhelm Jakob,3,449,430.
Kaiser, Willard D.; and Monroe, Hanford D., to FMC Corporation. Electronic circuit for application in balancing vehicle wheels. 3,452,603, 7-1-69, Cl. 73-466.
Kaiser, Willy: *See*—
Basalla, Alfred; and Ungemach, Hans, 3,463,441.
Kaiser, Wolfgang K.: *See*—
Giordmaine, Joseph A.; and Kaiser, Wolfgang K.,3,478,277.
Frech, Gunther; Kaiser, Wolfgang; and Rahn, Herbert,3,440,600.
Kaji, Aritsune: *See*—
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa,3,448,195.
Kajihara, Akira: *See*—
Ishida, Shin'Ichi; Kajihara, Akira; Tokushige, Akira; Ohki, Hayashi; and Sato, Kunio,3,471,998.
Kajihara, Sadaji: *See*—
Tanaka, Hozumi; Hanabusa, Minoru; Goshima, Kazuaki; Unno, Yutaka; and Kajihara, Sadaji,3,450,505.
Kajima Construction Company Limited: *See*—
Nikai, Sei; Kojima, Yu; Mukai, Tsuneo; and Hirata, Shigeru, 3,485,384.
Kajitani, Masahiko, to Matsushita Electric Industrial Co., Ltd. Automatized magnetic recording and reproducing apparatus. 3,476,884, 11-4-69, Cl. 179-100.2

Kajiura, Hiroshi: *See—*
Tanaka, Tatsuo; Gotoh, Keishi; and Kajiura, Hiroshi,3,478,599.
Kajiwara, Masaichi: *See—*
Yamato, Junji; Tsukada, Keiichi; Kajiwara, Masaichi; and Ono, Masamichi,3,479,462.
Kajiwara, Toshiyuki, to Hitachi, Ltd. Control apparatus and system for strip rolling. 3,475,935, 11-4-69, Cl. 72-9.
Kakefude, Koichi: *See—*
Abe, Shokichi; Kakefude, Koichi; and Honjo, Mitsuo,3,436,440.
Kakegawa, Sadao; Matsuyama, Katsumi; and Naganuma, Yoshinori, to Kao Soap Co., Ltd. Heavy-duty liquid detergent composition. 3,424,689, 1-28-69, Cl. 252-137.
Kakehashi, Ikutaro. Coupler system for electronic organs. 3,436,466, 4-1-69, Cl. 84-1.01
Kakehi, Gen: *See—*
Kawashima, Masao; Higeta, Tsukumo; and Kakehi, Gen,3,467,913.
Kakei, Jun, to Nissan Jidosha Kabushiki Kaisha. Planetary transmission. 3,435,711, 4-1-69, Cl. 74-765.
Kaken Kagaku Kabushiki Kaisha: *See—*
Hara, Tadataka, 3,444,195.
Hara, Tadataka, 3,459,491.
Hashimoto, Shogo, 3,459,554.
Hayashi, Takashi; Kondo, Mitsutora; and Tanaka, Michio, 3,420,876.
Ueno, Akira; Matsuzaki, Etsuko; Momoki, Yoshio,; Ishimaru, Yoshino,; Saito, Gosaku,; and Sakai, Sumio,, 3,420,859.
Kakiage, Seinosuke: *See—*
Isobe, Kosaku; and Kakiage, Seinosuke,3,449,549.
Kakihana, Hidetake; and Gondo, Takuya, to Mitsubishi Chemical Industries Limited, Power Reactor & Nuclear Fuel Development Corporation, and Kakihana, Hidetake. Method for continuous separation of ions involving electromigration in a packed resin chamber. 3,485,737, 12-23-69, Cl. 204-180.
Kakihana, Hidetake: *See—*
Seko, Maomi; Kakihana, Hidetake; and Kurisu, Kimiko,3,425,924.
Kakimoto, Toshio: *See—*
Chibata, Ichiro; Kakimoto, Toshio; and Kato, Joji,3,458,400.
Kakizawa, Tadao: *See—*
Onishi, Isao; Nishi, Akira; and Kakizawa, Tadao,3,478,015.
Kakizawa, Toshizo: *See—*
Aida, Yoshikazu; and Kakizawa, Toshizo,3,441,855.
Kakos, Michael J., Jr., to Celanese Corporation. Stabilization of oxymethylene polymers. 3,484,399, 12-16-69, Cl. 260-18.
Kakos, Michael J.: *See—*
Fitzgerald, John V.; and Kakos, Michael J.,3,486,960.
Kaku, Teiichi: *See—*
Nakayama, Chozo; Kaku, Teiichi; Aizawa, Hiizu; and Iwamoto, Takeaki,3,472,017.
Kakuda, Roy Y.: *See—*
Burgis, Clare N.; and Kakuda, Roy Y.,3,440,644.
Kal-Equip Company: *See—*
Blowers, Ivan L., 3,441,856.
Kal-Pac Engineering Ltd.: *See—*
Cameron, Frank J., 3,465,798.
Kalafus, Edward F.; and Wise, Richard M., to General Tire & Rubber Company, The. Product and method of producing composite polyester textile rubber products. 3,449,200, 6-10-69, Cl. 161-92.
Kalamazoo Manufacturing Company: *See—*
Coy, Calvin L., 3,468,042.
Kalamazoo Spice Extraction Company: *See—*
Todd, Paul H., Jr.; and Worden Leonard R., 3,451,821.
Todd, Paul H., Jr., 3,486,906.
Kalart Company, Inc., The: *See—*
Schwartz, Morris; and Bender, Werner K., 3,435,156.
Kalb, Jeffrey C., to Texas Instruments, Incorporated. Floating latch. 3,474,263, 10-21-69, Cl. 307-289.
Kalbfeld, Jack W. Massaging and cleaning dental syringe. 3,420,228, 1-7-69, Cl. 128-66.
Kalbfleisch, Hendrik J., to American Enka Corporation. Profile-casting apparatus for processing synthetic thermoplastics. 3,449,794, 6-17-69, Cl. 18-12.
Kalbow, Wayne R.: *See—*
Kalbow, William H.; and Kalbow, Wayne R.,3,424,421.
Kalbow, William H.; and Kalbow, Wayne R. Container mounting device. 3,424,421, 1-28-69, Cl. 248-312.
Kaleda, William W.: *See—*
Mahlmann, James P.; Migdol, Norman R.; and Kaleda, William W.,3,421,901.
Kaleda, William W., to General Foods Corporation. Method of stabilizing freeze-dried coffee extract. 3,482,988, 12-9-69, Cl. 99-71.
Kaleda, William W.; and Johnson, Joe W., to General Foods Corporation. Method of freeze-drying coffee. 3,443,961, 5-13-69, Cl. 99-71.
Kalen, Sylvester E., to United States of America, Army. Battery-electrolyte packaging concept. 3,483,041, 12-9-69, Cl. 136-162.
Kalenda, Norman W.: *See—*
Jones, Jean E.; and Kalenda, Norman W.,3,432,302.
Jones, Jean E.; and Kalenda, Norman W.,3,432,303.
Kalenda, Norman W., to Eastman Kodak Company. Silver halide emulsions containing supersensitizing cyanine dye combinations. 3,486,902, 12-30-69, Cl. 96-104.
Kales, Josef: *See—*
Orlich, Helmut; Kales, Josef; Grotewohl, Albert; and Zaschke, Jurgen,3,482,466.
Kales, Rene, to Hertz, Warner Affiliated Corp. Polyolefin-modified polyurethanes and process of making same. 3,432,451, 3-11-69, Cl. 260-23.
Kaleta, Norbert W.: *See—*
Austin, Arthur C.; and Kaleta, Norbert W.,3,472,306.
Austin, Arthur C.; Gorka, Edward R.; and Kaleta, Norbert W.,3,480,104.
Kalfaian, Meguer V. Amplitude equalizer of speech sound waves with high fidelity. 3,431,359, 3-4-69, Cl. 179-1.
Kalfaian, Meguer V. Speech sound wave analysis. 3,432,617, 3-11-69, Cl. 179-1.
Kalfas, Raymond F. Replaceable filter unit for coolant systems of internal combustion engines. 3,426,905, 2-11-69, Cl. 210-266.
Kali Forschung Anstalt GmbH: *See—*
Autenrieth, Hans; and Wirries, Heinrich, 3,477,566.
Kali-Chemie Aktiengesellschaft: *See—*
Pauksch, Heinrich; and Massonne, Joachim, 3,466,341.
Thies, Peter Willibrord; Kucaba, Walter; and Funke, Siegfried, 3,422,090.
Thies, Peter Willibrord, 3,485,851.
Kali-Forschungsinstitut: *See—*
Hoppe, Hans; and Scherzberg, Heinz, 3,423,171.
Hoppe, Hans; Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang, 3,440,023.
Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang, 3,445,185.
Kalia, Kanwal K.: *See—*
Lohnas, John D.; Bourdeau, Raymond D.; and Kalia, Kanwal K.,3,442,685.
Kalika, Peter W., to Combustion Engineering, Inc. Combination incinerator and wet scrubber arrangement. 3,420,195, 1-7-69, Cl. 110-7.
Kalil, James; and Milano, James, to Du Pont de Nemours, E. I., and Company. Process for preparation of zinc halide-2,2'-dithiobisbenzothiazole and zinc halide-2- mercaptobenzothiazole complexes. 3,454,589, 7-8-69, Cl. 260-299.
Kalina, Ben F. Elevator and rudder control apparatus. 3,442,472, 5-6-69, Cl. 244-87.
Kalina, Robert F.; and Verenski, Lawrence E., to Western Electric Company, Incorporated. Capacitor with closures at end of arbor hole therein and method of making the same. 3,434,024, 3-18-69, Cl. 317-260.
Kalisch, John H., to Canadian International Paper Company. Pretreatment of wood pulps with an alkaline solution of formaldehyde. 3,479,249, 11-18-69, Cl. 162-18.
Kalish, Robert L.; Kanyok, Anthony J.; Hulick, Warren E.; and Hamer, Edward A. G., to American Standard Inc. Tube end fitting. 3,421,782, 1-14-69, Cl. 285-248.
Kalish, Samuel: *See—*
Morshauser, Fred S.; Kalish, Samuel; and Biamonte, Alfred R.,3,479,429.
Kaliski, Adam F.; and Husband, Robert M., to Riegel Paper Corporation. Two step in situ reaction for producing coated paper webs. 3,484,271, 12-16-69, Cl. 117-62.1
Kaljunov, Gennady Alexandrovich: *See—*
Levishko, Anatoly Alexandrovich; Kaljunov, Gennady Alexandrovich; and Gorin, Evgeny Leontievich,3,467,322.
Kalkner, Bernhard; and Becker, Hans, to Licentia Patent-Verwaltungs-G.m.b.H. Circuit arrangement for limiting overload currents incorporating a capacitor and an inductance and means for making the capacitor function as a non- linear current-dependent element. 3,461,308, 8-12-69, Cl. 307-51.
Kalkoffen, Friedel: *See—*
Dreyer, Siegfried; Harde, Rudolf; Jansing, Walter; Kalkoffen, Friedel; Mausbeck, Hans; and Schnittker, Werner,3,438,431.
Kalkowski, Kurt U. Utensil for preventing spraying with frying pans, cooking pots or the like. 3,452,895, 7-1-69, Cl. 220-44.
Kallage, Richard G., Jr., to Underwriters Safety Device Company. Capacitor discharge circuit with positive control means. 3,474,291, 10-21-69, Cl. 315-241.
Kallander, Ernest L., to Norton Company. Grinding wheel guard and safety shutter for abrading machines. 3,452,489, 7-1-69, Cl. 51-269.
Kallas, William E.: *See—*
Reid, Philip L.; Kallas, William E.; and Wilson, Claude A.,3,462,966.
Kalle Aktiengesellschaft: *See—*
Arneth, Reinhold; and Tomanek, Martha, 3,458,310.
Bippus, Walter; Ackermann, Horst; and Hordler, Gisbert, 3,456,421.
Braunisch, Herbert; Lenhart, Helga; and Seifried, Walter, 3,434,916.
Buchheister, Gerhard; and Seibel, Markus, 3,424,735.
Dietrich, Roland, 3,437,429.

Erdmann, Fritz; and Uhlig, Fritz, 3,459,128.
Fitz, Herbert, 3,420,801.
Fitz, Herbert; and Seifried, Walter, 3,423,370.
Fitz, Herbert, 3,425,994.
Hackmann, Ernst-August, 3,423,206.
Hackmann, Ernst-August; Munder, Johannes; and Moraw, Roland, 3,446,621.
Klenk, Ludwig; and Seifried, Walter, 3,423,493.
Klenk, Ludwig; Seifried, Walter; and Strutzel, Hans, 3,486,196.
Kletschke, Hans; and Macholdt, Hans, 3,425,640.
Kramer, Heinz; and Messner, Dieter, 3,443,224.
Porrmann, Herbert; Seifried, Walter; and Meyreis, Hans-Werner, 3,473,957.
Raether, Siegfried, 3,481,798.
Schmidt, Willi J.; and Schuck, Stephan, 3,424,395.
Schwarzer, Franz, 3,461,115.
Steppan, Hartmut; Erdmann, Fritz; Messwarb, Gunter; and Luders, Walter, 3,484,239.
Twele, Gunther, 3,455,112.
Uhlig, Fritz, 3,468,725.

Kallel, Allen; and Mufich, Frank J., to Wemac Company. Air valve. 3,423,065, 1-21-69, Cl. 251-306.

Kallen, Jorg: *See—*
Schramek, Henri; Riethmann, Jean; and Kallen, Jorg,3,449,324.

Kallenbach, Eberhard: *See—*
Nestler, Wolfgang; and Kallenbach, Eberhard,3,461,375.

Kallenbach, Lyle R., to Phillips Petroleum Company. Polymer hydrogenation. 3,432,518, 3-11-69, Cl. 260-94.9

Kallenbach, Lyle R., to Phillips Petroleum Company. Catalyst and process for making olefin polymers of narromolecular weight distribution. 3,445,367, 5-20-69, Cl. 260-94.9

Kallenbach, Lyle R., to Phillips Petroleum Company. Catalyst treated with boron compound prior to activation. 3,484,428, 12-16-69, Cl. 260-94.9

Kallenbach, Rudolf; and Bungardt, Walter. Process of making rare earth metals and silicon alloys. 3,440,040, 4-22-69, Cl. 75-152.

Kallenbach, Rudolf; and Bungardt, Walter. Method of producing rare earth metals and silcon alloys. 3,440,041, 4-22-69, Cl. 75-152.

Kallenberg, Karl J., to Prestige Photo Products, Inc. Contact printer and paper drive therefor. 3,460,732, 8-12-69, Cl. 226-136.

Kallenberger, Robert, to Phillips Petroleum Company. Method for producing carbon black. 3,445,190, 5-20-69, Cl. 23-209.4

Kallenborn, John, to PPG Industries, Inc. Machine for end finding of strand. 3,433,423, 3-18-69, Cl. 242-35.5

Kallert, Alfred; and Rascher, Konrad, to Pfaff, G.M., AG. Cutting of thermoplastic fabrics. 3,423,271, 1-21-69, Cl. 156-380.

Kallert, Wilhelm: *See—*
Fischer, Peter; and Kallert, Wilhelm,3,475,378.
Heydkamp, Wolfgang; Wilms, Hugo; Kallert, Wilhelm; and Dieterich, Dieter,3,471,448.

Kallert, Wilhelm; and Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Process for coating textile article with polyurethane and the resulting article. 3,475,200, 10-28-69, Cl. 117-94.

Kallet, Eli A.; and Stanfill, Daniel F., III, to Barnes Engineering Company. Two-color compensation means for a radiometric balance sensor. 3,422,267, 1-14-69, Cl. 250-83.

Kallevig, John A.; and Sher, Neil C., to Honeywell Inc. Control apparatus. 3,462,014, 8-19-69, Cl. 209-72.

Kallfass, Herbert: *See—*
Peter Van Dillen, Paul Joan; Vollmer, Eva Maria; Kallfass, Herbert; and Zimmermann, Max,3,428,488.

Kalliroscope Corporation: *See—*
Matisse, Paul Henri Robert, 3,464,132.

Kallischnigg, Rolf; and Biekert, Ernst, to Knoll A.-G. Preparation of L-a-methyldopa. 3,440,278, 4-22-69, Cl. 260-519.

Kallmann, Hartmut P., to New York University. Apparatus for storing and visibly reproducing images using an electrolumenescent cell exhibiting persistent internal polarization. 3,484,752, 12-16-69, Cl. 340-173.

Kallrath, Gottfried: *See—*
Biegler, Hanns; Kallrath, Gottfried; and Klein, Kurt,3,484,371.

Kallus, Samuel. Vibrator-massage device. 3,464,405, 9-2-69, Cl. 128-33.

Kalman, Peter Gabor. Filtering process and apparatus. 3,471,017, 10-7-69, Cl. 210-71.

Kalmus, Henry P., to United States of America, Army. Moving target indicator. 3,432,855, 3-11-69, Cl. 343-7.7

Kalnin, Ilmar L., to American Standard Inc. Silicon coated graphite. 3,433,682, 3-18-69, Cl. 148-6.3

Kalocsai, Bela O.; and Wrench, Robert F., to Corning Glass Works. Edge form grinding. 3,436,865, 4-8-69, Cl. 51-3.

Kalog, Francis J., to Stanley Works, The. Selective electromechanical operator. 3,470,653, 10-7-69, Cl. 49-139.

Kalopissis, Gregoire: *See—*
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques,3,442,895.
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques,3,467,483.

Kalopissis, Gregoire, to L'Oreal. 2,5-Dihydroxy-monomethyl-or diethylaminobenzene for dyeing living human hair, furs and other keratinous fibers. 3,485,568, 12-23-69, Cl. 8-10.2

Kalopissis, Gregoire; and Aretos, Constantin, to Societe Anonyme dite: L'Oreal. Polysulfhydrylated polymers prepared from the reaction of maleic acid anhydride copolymers and aminothiols. 3,484,417, 12-16-69, Cl. 260-78.5

Kalopissis, Gregoire; Bertrand, Jack; and Bugaut, Andree, to Societe Anonyme dite: L'Oreal. Anthraquinone dyes for dyeing live human hair and keratinic fibers. 3,442,599, 5-6-69, Cl. 8-10.1

Kalopissis, Gregoire; and Viout, Andre, to L'Oreal. Hair dyeing compositions containing amphoteric surface active agents. 3,436,167, 4-1-69, Cl. 8-10.1

Kalopissis, Gregoire; Zviak, Charles; and Viout, Andre, to Societe Anonyme dite: L'Oreal. Polymercapto condensation polymers derived from maleic anhydride copolymers and aminothiols and their application for cosmetic purposes. 3,472,820, 10-14-69, Cl. 260-78.5

Kals, Walter, to Niagara Blower Company. Method and apparatus for vaporizing and superheating cold liquefied gas. 3,421,574, 1-14-69, Cl. 165-2.

Kalt, Charles G., to Sprague Electric Company. Thermal printing head. 3,483,356, 12-9-69, Cl. 219-216.

Kalt, Charles G.: *See—*
Johnson, Theodore W.; Kalt, Charles G.; and Martin, Jacob H.,3,478,191.

Kaltenbach & Voigt: *See—*
Hoffmeister, Erich, 3,425,124.
Loge, Hans; and Bareth, Erich, 3,436,980.
Loge, Hans, 3,475,817.

Kaltenbach, Theodore L. Seal spray gun siphon cup. 3,432,104, 3-11-69, Cl. 239-328.

Kaltenbronn, James S., to Parke, Davis & Company. β-(4-or 5-Phenyl-1-naphthalene)ethylamines. 3,467,710, 9-16-69, Cl. 260-570.8

Kaltenbronn, James S., to Parke, Davis & Company. 4- And 5-aryl-1-naphthalene- acetic acid compounds. 3,468,939, 9-23-69, Cl. 260-515.

Kaltenegger, Benno. Vehicle for recovering disabled vehicles. 3,424,325, 1-28-69, Cl. 214-390.

Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D., to O. K. Partnership. Data retrieval apparatus and method. 3,450,261, 6-17-69, Cl. 209-110.

Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D., to O. K. Partnership. Coder for edge notched cards and the like. 3,469,774, 9-30-69, Cl. 234-1.

Kaluim Chemicals Limited: *See—*
Jeffery, Walter S., 3,433,603.

Kalustian, Sarkis V., to United States of America, Atomic Energy Commission, mesne. Apparatus for controlling the excitation of autilization device. 3,460,377, 8-12-69, Cl. 73-71.6

Kalvar Corporation: *See—*
Fleming, Joseph D.; Sanchez, Earl J.; Farris, Charles L.; and Notley, Norman T., 3,440,083.
Notley, Norman T.; and Senentz, Irwin M., Jr., 3,457,071.
Notley, Norman T., 3,485,631.

Kalve, Ernest. Overhead crane runway structures. 3,438,336, 4-15-69, Cl. 104-124.

Kalve, Ernest. Cableway scraper excavator. 3,475,839, 11-4-69, Cl. 37-117.

Kalvoda, Jaroslav: *See—*
Anner, Georg; and Kalvoda, Jaroslav,3,459,769.
Anner, Georg; and Kalvoda, Jaroslav,3,459,791.
Anner, Georg; and Kalvoda, Jaroslav,3,470,240.
Anner, Georg; Meystre, Charles; Kalvoda, Jaroslav; and Ueberwasser, Hellmut,3,431,191.
Wettstein, Albert; Anner, Georg; Heusler, Karl; Kalvoda, Jaroslav; and Ueberwasser, Hellmut,3,458,539.

Kalwaites, Frank, to Johnson & Johnson. Method and apparatus for cross-laying fibrous material. 3,444,020, 5-13-69, Cl. 156-169.

Kalwaites, Frank, to Johnson & Johnson. Absorbent fibrous batt with longitudinal barrier areas. 3,444,859, 5-20-69, Cl. 128-284.

Kalwaites, Frank; and Poitras, Ernest L., to Johnson & Johnson. Method of manufacturing a web of continuous filaments. 3,443,284, 5-13-69, Cl. 19-66.

Kam, George H.; and Rubin, Michael, to Sylvania Electric Products Inc. Automatic control of drive for linear power amplifier. 3,428,909, 2-18-69, Cl. 330-15.

Kamada, Masaki; and Okauchi, Tetsuo, to Takeda Chemical Industries, Ltd. Artificial feedstuff for silkworm larvae containing a hydroxybenzaldehyde compound. 3,425,838, 2-4-69, Cl. 99-2.

Kamada, Masaki: *See—*
Miyazawa, Homare; Tarui, Shoichi; and Kamada, Masaki,3,465,720.
Miyazawa, Homare; Tarui, Shoichi; Kamada, Masaki; and Masuda, Hiroshi,3,465,721.

Kamaishi, Tadami: *See—*
Matsumura, Kiichiro; Sugawara, Yoshio; Kamaishi, Tadami; and Atarashi, Yuji,3,475,394.

Kamal, Marwan R.: *See—*
Elmquist, Lyle F.; and Kamal, Marwan R.,3,462,295.

Nash, Edmund G.; Kamal, Marwan R.; and Aelony, David,3,455,981.
Kamal, Marwan R., to General Mills, Inc. Schiff bases prepared by reacting unsaturated carbonyl compounds with amine-terminated polymeric fats. 3,432,574, 3-11-69, Cl. 260-834.
Kamal, Marwan R., to General Mills, Inc. Preparation of non-aromatic polyisocyanates. 3,465,023, 9-2-69, Cl. 260-453.
Kamal, Marwan R.; and Floyd, Don E., to General Mills, Inc. Treatment of wood and resulting treated product. 3,481,774, 12-2-69, Cl. 117-148.
Kamal, Marwan R.; and Rogier, Edgar R., to General Mills, Inc. Polyisocyanates and derivatives. 3,455,883, 7-15-69, Cl. 260-77.5
Kamal, Marwan R.; and Wittcoff, Harold A., to General Mills, Inc. Polyurea coating for copper. 3,440,087, 4-22-69, Cl. 117-132.
Kamal, Musa Rasim, to Formica Corporation. Weatherable plastic laminates. 3,421,971, 1-14-69, Cl. 161-184.
Kamal, Musa Rasim, to Formica Corporation. Protection of plastic materials. 3,421,973, 1-14-69, Cl. 161-189.
Kamal, Musa Rasim, to Formica Corporation. Weatherable high impact resistant laminates. 3,447,997, 6-3-69, Cl. 161-165.
Kaman Aircraft Corporation: *See*—
Thurston, Franklin J.; and Nazali, Joseph M., 3,456,424.
Kaman, Charles H., to Kaman Corporation. Guitar construction. 3,474,697, 10-28-69, Cl. 84-267.
Kaman Corporation: *See*—
Carson, George W., Jr., 3,467,346.
Flannelly, William G., 3,441,238.
Flannelly, William G., 3,445,080.
Greenberg, Avrom; Brown, William H., Jr.; Packard, Clifford B.; and Hackenberger, George I., Jr., 3,444,569.
Hollrock, Richard H.; and Barzda, Justin J., 3,428,271.
Jones, Robert E., Jr.; and Price, Harold J., 3,431,416.
Kaman, Charles H., 3,474,697.
Mayerjak, Robert J., 3,481,158.
McCoubrey, George A., 3,484,174.
Orkin, Stanley S.; and Hudacko, Vincent J., 3,428,374.
Kaman Sciences Corporation: *See*—
Church, Peter K., 3,484,678.
Knutson, Oliver J., 3,460,247.
Kamarjan, Georgy Mikirtychevich. Diaphragm electrolyzer for production of chlorine, hydrogen and alkalies. 3,461,057, 8-12-69, Cl. 204-258.
Kamata, Kazuyuki: *See*—
Seki, Shigeo; and Kamata, Kazuyuki,3,472,896.
Kamata, Keiko: *See*—
Asano, Taisuke; Nakano, Mamoru; Sato, Yasuhiro; Shimodaira, Takashi; and Kamata, Keiko,3,470,238.
Kamata, Takemi: *See*—
Kotaka, Yasukuni; Arakawa, Takeshi; and Kamata, Takemi,3,430,120.
Kamath, G Sanjiv: *See*—
Wood, Charles; Kamath, G Sanjiv; and Neyhart, James H.,3,469,978.
Kambara, Frank T.: *See*—
Chiu, Herman S.; and Kambara, Frank T.,3,484,256.
Kamborian, Jacob S.: *See*—
Andrews, Barry G.; and Harriman, Allen C., 3,477,078.
Becka, Michael M., 3,422,476.
Becka, Michael M.; and Harriman, Allen C., 3,439,367.
Becka, Michael M.; and Anderson, Gordon S., 3,444,591.
Becka, Michael M.; and Harriman, Allen C., 3,470,573.
Bergeron, Normand; Harriman, Allen C.; and Sitko, Antoni L., 3,477,079.
Bergeron, Normand, 3,484,880.
Blank, Aaron P., 3,422,551.
Harriman, Allen C., 3,426,945.
Harriman, Allen C.; and Donahue, Robert F., 3,444,571.
Harriman, Allen C., 3,456,273.
Harriman, Allen C.; and Robinson, Charles A., 3,464,382.
Harriman, Allen C.; and Vornberger, Karl F., 3,478,379.
Kamborian, Jacob S.; Harriman, Allen C.; Jones, Geoffrey T.; and Vornberger, Karl F., 3,422,474.
Leonhardt, Horst M., 3,436,779.
Sargent, Thomas J., 3,444,573.
Kamborian, Jacob S.; Harriman, Allen C.; Jones, Geoffrey T.; and Vornberger, Karl F., to Kamborian, Jacob S. Method and apparatus for use in lasting shoes. 3,422,474, 1-21-69, Cl. 12-145.
Kamborian, Jacob S.; Vornberger, Walter A.; and Arsenault, James H. Cement extruding mechanism. 3,470,849, 10-7-69, Cl. 118-410.
Kamborian, Jacobs S.: *See*—
Becka, Michael M.; and Anderson, Gordon S., 3,436,781.
Spolsino, Peter P., 3,436,780.
Kameda, Isamu; and Uto, Yoshimitsu, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of deposit welding chromium steels. 3,476,909, 11-4-69, Cl. 219-137.
Kamei, Mikio: *See*—
Akamatsu, Hiroo; Morita, Takanobu; Kamei, Mikio; and Nozoe, Yasuhiro,3,479,518.
Kamen, Melvin E., to Revlon, Inc. Method of embossing soap or detergent bars. 3,446,900, 5-27-69, Cl. 264-293.
Kamen, Melvin E., to Revlon, Inc. Apparatus for forming compressed handle-carrying soap cakes. 3,453,705, 7-8-69, Cl. 25-7.
Kamenyarzh, Alexandr Yakovlevich; and Ryvkin, Vladimir Lvovich, to Zavod Stroitelno-Oldelochnykh Mashin. Installation for manufacturing reinforced plastic pipes. 3,459,621, 8-5-69, Cl. 156-393.
Kameoka, Iwao: *See*—
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto,3,455,847.
Kameyama, Daijiro: *See*—
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru,3,433,156.
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru,3,442,213.
Kameyama, Naohito: *See*—
Ouchi, Shunji; Yamada, Hiraku; Kameyama, Naohito; Kurihara, Masakazu; Senoh, Saburo; and Sowa, Tuneo,3,475,409.
Kameyama, Yasuyoshi: *See*—
Suzuki, Yasuo; and Kameyama, Yasuyoshi,3,454,801.
Kamibayashi, Tetsusaburo: *See*—
Oshima, Shintaro; and Kamibayashi, Tetsusaburo,3,428,955.
Oshima, Shintaro; and Kamibayashi, Tetsusaburo,3,432,681.
Oshima, Shintaro; Futami, Kakuo; Fukui, Takasuke; Kamibayashi, Tetsusaburo; and Komazawa, Yoshihisa,3,441,494.
Oshima, Shintaro; Kamibayashi, Tetsusaburo; and Amano, Kitsutaro,3,440,436.
Kamienski, Conrad W.: *See*—
Bach, Ricardo O.; Kamienski, Conrad W.; Dellinger, Matthew Henry; Mitchem, Luther C.; and Morrison, Robert C.,3,445,534.
Kamienski, Conrad W.; Bach, Ricardo O.; and Leonhardt, William S., to Lithium Corporation of America, Inc. Stabilization of secondary alkyllithiums. 3,452,111, 6-24-69, Cl. 260-665.
Kamienski, Conrad W.; Diesing, Arthur C.; and Morrison, Robert C. B., to Lithium Corporation of America. Preparation of solutions of lithium-hydrocarbon compounds. 3,452,112, 6-24-69, Cl. 260-665.
Kamijo, Noriyuki: *See*—
Ono, Tsuneyoshi; Kamijo, Noriyuki; and Ootsuki, Chihiro,3,470,687.
Kamila, Friedolf, to Package Machinery Company. Apparatus for oriented stacking and timed positional delivery of stick lollipops. 3,474,891, 10-28-69, Cl. 198-33.
Kamila, Friedolf, to Package Machinery Company. Overhead paddle transport cam for bag loading machine. 3,474,896, 10-28-69, Cl. 198-170.
Kaminaka, Hiroshi: *See*—
Ito, Ken; Kaminaka, Hiroshi; Hamada, Takaki; and Kuruma, Hiroshi,3,484,491.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,047.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,048.
Kaminishi, Takehito: *See*—
Usui, Hiroshi; and Kaminishi, Takehito,3,465,512.
Kamino, Tadashi: *See*—
Yamanaka, Takashi; Kamino, Tadashi; and Ikeda, Hiroshi,3,461,309.
Kamins, Seymour; and Rosenberg, Norman. Protective hanging unit for garments. 3,469,679, 9-30-69, Cl. 206-7.
Kamins, Seymour; and Rosenberg, Norman, to CTP Industries Inc. Bag and closure means therefor. 3,477,634, 11-11-69, Cl. 229-54.
Kamins, Seymour; and Rosenberg, Norman, to CTP Industries, Inc. Bag and closure means therefor. 3,486,683, 12-30-69, Cl. 229-54.
Kaminski, Elton G.: *See*—
Stolle, Ralph J.; and Kaminski, Elton G.,3,423,985.
Stolle, Ralph J.; and Kaminski, Elton G.,3,424,118.
Stolle, Ralph J.; and Kaminski, Elton G.,3,430,593.
Kaminski, Joseph, Jr., to General Electric Company. Combined conductor support and corona shield. 3,471,633, 10-7-69, Cl. 174-144.
Kaminski, William, to Bell Telephone Laboratories, Incorporated. Phase controlled oscillator system utilizing variable gain in the phase control loop. 3,475,695, 10-28-69, Cl. 331-25.
Kaminsky, Fridrikh Davydovich: *See*—
Ivanov, Nikolai Dmitrievich; Kaminsky, Fridrikh Davydovich; and Kuznetsov, Vladimir Ilich,3,473,072.
Kaminsky, Murray F.; and Spector, Gerald, to Radio Corporation of America. Card processing apparatus. 3,440,409, 4-22-69, Cl. 235-61.11
Kamio, Kosaku; and Kuwana, Motoyuki, to Nippon Carbide Kogyo Kabushiki Kaisha. Polyisobutylene oxide stabilized with combinations comprising a phenol and a metal dithiocarbamate. 3,477,972, 11-11-69, Cl. 260-18.
Kamisaka, Kazuo: *See*—
Yamagata, Kazumi; and Kamisaka, Kazuo,3,464,212.
Kamitani, Takashi. Tube mat used as a carpet. 3,481,245, 12-2-69, Cl. 87-6.

Kamiya, Shigeru: *See*—
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,492.
Kamiya, Takaaki: *See*—
Ueyanagi, Jisaburo; Iwasaki, Hidesuke; Kamiya, Takaaki; and Oka, Osamu,3,444,187.
Kamiyama, Shinichi: *See*—
Katori, Kaichiro; and Kamiyama, Shinichi,3,442,634.
Kamlet, Edna Y.: *See*—
Kamlet, Jonas,3,453,098.
Kamlet, Jonas, deceased0 (by Kamlet, Edna Y.; executrix). Fertilizer containing biuret free of cyanate ions. 3,453,098, 7-1-69, Cl. 71-30.
Kamlet, Mortimer J.: *See*—
Adolph, Horst G.; and Kamlet, Mortimer J.,3,435,079.
Glover, Donald J.; and Kamlet, Mortimer J.,3,437,683.
Sickman, Darrell V.; and Kamlet, Mortimer J.,3,461,112.
Kamlukin, Igor, to Simplicity Manufacturing Company, Inc. Riding tractor with power takeoff pulley means. 3,440,740, 4-29-69, Cl. 37-43.
Kamlukin, Igor, to Simplicity Manufacturing Company, Inc. Mowing apparatus with rotary cutters. 3,457,714, 7-29-69, Cl. 56-503.
Kamm, Lawrence Joseph, to General Electric Company. Measuring and sensing device. 3,425,132, 2-4-69, Cl. 33-172.
Kamman, Gordon W., to Houdaille Industries, Inc. Buffers with combination fluid accumulator and seal means. 3,439,913, 4-22-69, Cl. 267-65.
Kammer, Franz, to U.S. Philips Corporation, mesne. Remote control system with a unitary cell bridge circuit. 3,440,427, 4-22-69, Cl. 250-210.
Kammerer, Archer W.: *See*—
Kriegel, Bernard, 3,487,228.
Kammerer, Archer W., Jr.: *See*—
Kriegel, Bernard, 3,487,228.
Kammerzell, Vern L. Bean harvesting attachment for tractors. 3,421,303, 1-14-69, Cl. 56-229.
Kammuller, Reiner; and Wirz, Burkhardt, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Measuring device for measuring a layer of liquid on a surface. 3,439,175, 4-15-69, Cl. 250-218.
Kamoi, Akira; and Ejiri, Masakazu, to Hitachi, Ltd. Analog-to-digital signal converter including coder plate device and logic circuitry. 3,484,780, 12-16-69, Cl. 340-347.
Kamoi, Arao: *See*—
Saeki, Kunio; and Kamoi, Arao,3,456,930.
Kamoji, Yoshiaki; and Nakamura, Shoichi, to Sony Corporation. Multi-track tape drive system for reversing tape travel after cessation of intelligence signal output from all channels. 3,461,249, 8-12-69, Cl. 179-100.2
Kamoshida, Tsugio: *See*—
Tachimoto, Kazuo; Kamoshida, Tsugio; and Akagawa, Tsugio,3,429,362.
Kamp, Ronald C., to International Harvester Company. Pedal and governor operated fuel control for dual induction engine. 3,422,802, 1-21-69, Cl. 123-75.
Kamp, Ronald C., to International Harvester Company. Variable volume accumulator seat suspension. 3,430,444, 3-4-69, Cl. 60-51.
Kamp, Ronald C., to International Harvester Company. Parallel dual accumulator seat suspension. 3,470,692, 10-7-69, Cl. 60-51.
Kampe, Klaus-Dieter; and Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of neutral polyphosphoric ester anhydrides. 3,454,683, 7-8-69, Cl. 260-988.
Kampe, Klaus-Dieter; and Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of neutral polyphosphoric ester anhydrides. 3,454,684, 7-8-69, Cl. 260-988.
Kamper, Helmut, to Brero & Co. Fasteners. 3,445,901, 5-27-69, Cl. 24-201.
Kampert, Keith W., to International Harvester Company. Bucket tooth assembly with wear plate and locking shim. 3,462,861, 8-26-69, Cl. 37-142.
Kampert, Keith W., to International Harvester Company. Clutch engaged by bellows. 3,463,284, 8-26-69, Cl. 192-88.
Kampert, Keith W.; and Houtz, Kenneth E., to International Harvester Company. Self-aligning thrust bushing assembly. 3,434,766, 3-25-69, Cl. 308-135.
Kampf-Emden, Gerhard, to Demag Aktiengesellschaft. Tunnel driving shield having pivotally mounted drilling boom. 3,469,884, 9-30-69, Cl. 299-33.
Kampf, Leo. Dimensionally stabilized concrete and mortar. 3,442,672, 5-6-69, Cl. 106-87.
Kampf, Otto W., to Meyercord Co., The. Rotary tax stamp numbering machine with clutch drive. 3,474,727, 10-28-69, Cl. 101-219.
Kampf, Richard S.: *See*—
Brown, Paul M.; Hopper, Nolan D.; Kampf, Richard S.; and Lord, Walter V.,3,446,134.
Kampf, William C., to Tote-Cart Company. Cart construction. 3,433,496, 3-18-69, Cl. 280-33.99
Kampfer, Helmut; Gotze, Johannes; Reister, Oskar; and Bockly, Erich, to Agfa-Gevaert Aktiengesellschaft. Light-sensitive materials optically sensitized with chloropropylsulfonic acid substituted merocyanines. 3,480,439, 11-25-69, Cl. 96-102.
Kamphaus, Hartmut: *See*—
Maatsch, Jurgen; Achterfeld, Horst; and Kamphaus, Hartmut,3,457,787.
Kampmeier, Frederick J., to Ingersoll Milling Machine Company, The. Boring machine with vibrationless boring bar. 3,438,289, 4-15-69, Cl. 77-56.
Kampmeier, Frederick J.; and Seborg, Earnest Y., to Ingersoll Milling Machine Company, The. Bearing support for tool spindles. 3,438,287, 4-15-69, Cl. 77-56.
Kamps, Henry E., to United States of America, Air Force. Spray pattern measurement. 3,459,049, 8-5-69, Cl. 73-432.
Kan, Billy; and Katz, Saul N., to General Foods Corporation. Process for agglomerating coffee. 3,424,589, 1-28-69, Cl. 99-71.
Kan, Masao; Hyodo, Hiroshi; Watanabe, Akio; and Enami, Shigekazu, to Pilot Man-Nen-Hitsu Kabushiki Kaisha. Pressure sensitive copying sheet and the production thereof. 3,432,327, 3-11-69, Cl. 117-36.2
Kan, Yoshiro, to Nippon Seiko Kabushiki Kaisha. Lubricant seal having casing and its holding means. 3,467,395, 9-16-69, Cl. 277-37.
Kanaan, Ziyad R., to General Motors Corporation. Spray-type distillation using gas turbine exhaust distilland heating. 3,425,914, 2-4-69, Cl. 202-177.
Kanaga, Amos R. Tri-cornered bag. 3,430,841, 3-4-69, Cl. 229-53.
Kanagy, Jonas Jacob; and Kinsinger, Herman Milton. Flail type bottom unloader for silos. 3,455,470, 7-15-69, Cl. 214-17.
Kanai, Kazumichi: *See*—
Otsuka, Eiji; Inoue, Shigeru; and Kanai, Kazumichi,3,436,317.
Kaname, Yuichi; Nagata, Takashi; Ishibashi, Michio; and Tsujimoto, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic resonators. 3,433,982, 3-18-69, Cl. 310-8.2
Kanamori, Hisao, to Mitsuboshi Belt Kabushiki Kaisha. Method of joining the ends of a conveyer belt reinforced with steel strands. 3,481,807, 12-2-69, Cl. 156-159.
Kanamori, Koichi; and Seto, Iwao, to Ebara Infilco Kabushiki Kaisha. Continuous ion exchange apparatus. 3,459,306, 8-5-69, Cl. 210-189.
Kanaoka, Takao; Morio, Minoru; and Yoneda, Hajime, to Sony Corporation. Horizontal and vertical deflection output circuit arrangement for cathode ray tube. 3,484,648, 12-16-69, Cl. 315-24.
Kanawyer, Walter N.: *See*—
Margolien, David H.; and Kanawyer, Walter N.,3,435,446.
Kanazashi, Isao, to Fuji Seiki Machine Works. Dwellmatic honing machine. 3,455,063, 7-15-69, Cl. 51-34.
Kanazawa, Yasunori: *See*—
Kanda, Yozo; and Kanazawa, Yasunori,3,460,005.
Kanbar, Elliott S. Vibratory massage tool. 3,441,016, 4-29-69, Cl. 128-67.
Kanbar, Elliott S. Extension thermostat and adapter assembly. 3,486,081, 12-23-69, Cl. 317-132.
Kanbar, Maurice S.; and Sudarsky, Raymond David. Refillable cryogenic probe for surgical use. 3,425,417, 2-4-69, Cl. 128-303.1
Kanbara, Kiyohiro: *See*—
Nakamura, Akihide; Ito, Iko; and Kanbara, Kiyohiro,3,457,241.
Kanbara, Shu; Takahashi, Akio; Nakano, Masayuki; and Hirose, Toshio, to Mitsui Chemical Industry Co., Ltd. Process for producing conjugated diolefin polymers having high regularity with a Co- or Ni- chelate compound/organoaluminum halide catalyst. 3,431,248, 3-4-69, Cl. 260-94.3
Kanbe, Kenichi: *See*—
Yanagisawa, Akimasa; Kanbe, Kenichi; Sano, Tsunenori; and Ishii, Tadashi,3,427,112.
Kanbe, Yoichiro. Floating tank for petroleum storage use. 3,482,541, 12-9-69, Cl. 114-74.
K and M Rubber Company: *See*—
Craig, Walter J., 3,470,927.
Kand Rubber Company: *See*—
Craig, Walter J., 3,432,069.
Kanda, Isao, to NGK Spark Plug Co., Ltd. Piezoelectric ignition device. 3,434,790, 3-25-69, Cl. 431-255.
Kanda, Masao, to Shigeru Kawai. Pin plate for a piano. 3,433,111, 3-18-69, Cl. 84-188.
Kanda, Yozo; and Kanazawa, Yasunori, to Hitachi, Ltd. Insulated gate field effect transistors with piezoelectric substrates. 3,460,005, 8-5-69, Cl. 317-235.
Kandall, Charles. Structure for increasing the load-carrying capacity of a beam. 3,427,773, 2-18-69, Cl. 52-225.
Kandel, Walter R. Filter cigarette of adjustable filter capacity. 3,428,050, 2-18-69, Cl. 131-10.3
Kandel, Walter. Self-marking firearm target including a resiliently deformable marking sheet. 3,423,092, 1-21-69, Cl. 273-102.1
Kandell, Walter; and Piroska, Jozsef. Drive for rotary objects. 3,425,285, 2-4-69, Cl. 74-29.
Kandera, Alfred G.: *See*—
McKay, David; and Kandera, Alfred G.,3,470,352.

Kandler, Joachim: *See—*
Feldmann, Klaus; Frank, Klaus; Gerhardt, Wilfried; Schmidt, Paul; and Kandler, Joachim,3,471,595.
Gabler, Hellmut; Gerhardt, Wilfried; and Kandler, Joachim,3,454,498.
Kandoian, Armig G.; and Marchand, Nathan, to Communication Systems, Incorporated. VOR antenna. 3,427,622, 2-11-69, Cl. 343-106.
Kane Air Scale Comny: *See—*
Bullivant, Kenneth Walter, 3,451,420.
Kane Air Scale Company: *See—*
Bullivant, Kenneth W.; and Kane, Edward, 3,425,503.
Stin, Donald E., 3,441,100.
Kane, Aloysius J.: *See—*
Wooster, George S.; and Kane, Aloysius J.,3,440,216.
Kane, Arthur V., to Chevron Research Company. Method of moving viscous crude oil through a pipeline. 3,425,429, 2-4-69, Cl. 137-13.
Kane, Daniel F. Car pod. 3,438,158, 4-15-69, Cl. 52-64.
Kane, Dennis P.; and Van Sant, William A., Jr., to Brunswick Corporation. Golf ball core. 3,458,206, 7-29-69, Cl. 273-231.
Kane, Edward: *See—*
Bullivant, Kenneth W.; and Kane, Edward,3,425,503.
Kane, Frank A.: *See—*
Kane, Frank A., Jr., 3,446,195.
Kane, Frank A., Jr.: *See—*
Kane, Frank A., Jr., 3,446,195.
Kane, Frank A., Jr., 1/4 to Oberrender, Girard F. 1/4 to Posnack, Emanuel R., and 1/4 to the estate of Kane, Frank A., administrator being Kane, Frank A., Jr. Device for controlling the admission and combustion of fuel in an internal combustion engine. 3,446,195, 5-27-69, Cl. 123-97.
Kane, Jacqueline C., to Stauffer Chemical Company. Sprayable sulfur road marking compositions. 3,447,941, 6-3-69, Cl. 106-287.
Kane, Jacqueline C., to Stauffer Chemical Company. Sulfur containing elastomers. 3,455,328, 7-15-69, Cl. 260-79.
Kane, Jacqueline C., to Stauffer Chemical Company. Sulfur containing compositions. 3,472,811, 10-14-69, Cl. 260-41.
Kane, James Anthony: *See—*
Sparrow, Alan Wycliffe; and Kane, James Anthony,3,481,318.
Kane, James Franklin: *See—*
Hrishikesan, Kizhakke Govind; Kane, James Franklin; Teas, Edward Bruce; and Brown, William Haddon,3,469,935.
Roberts, Richard C.; and Kane, James F.,3,469,937.
Kane, John J.; and Conner, James P., to Bethlehem Steel Corporation. Wire packaging apparatus. 3,423,043, 1-21-69, Cl. 242-82.
Kane, John L.; Mattern, Edward E.; and Funk, Edwin C., to Owens-Corning Fiberglas Corporation. Fiber aligning apparatus. 3,452,400, 7-1-69, Cl. 19-65.
Kane, John R., to Itek Corporation. Photo lithographic printing plates and process for producing same. 3,429,703, 2-25-69, Cl. 96-33.
Kane, John R., to Rex Laboratories, Inc. Printing ink for waxed pellets and process for applying the same. 3,463,645, 8-26-69, Cl. 106-30.
Kane, John R., to Rex Laboratories, Inc. Edible indelible ink for pharmaceutical pellets. 3,475,187, 10-28-69, Cl. 106-22.
Kane, Patrick A. Electrokinetic tutoring means. 3,421,231, 1-14-69, Cl. 35-9.
Kane, Patrick A. Releasable tape-reel securing means. 3,424,396, 1-28-69, Cl. 242-74.
Kane, Richard. Video tape editing utilizing photoelectric means. 3,461,248, 8-12-69, Cl. 179-100.2
Kane, Robert J. Demountable hose coupling. 3,449,000, 6-10-69, Cl. 285-174.
Kane, Roger C.: *See—*
Haskell, Philip R.; and Kane, Roger C.,3,470,860.
Kane, Warren F.: *See—*
Furlong, Donn B.; Hallett, Glenn F.; and Kane, Warren F.,3,468,521.
Kane, William P., to Du Pont de Nemours, E. I., and Company. Adherent cellulose film comprising negatively charged aldehyde. 3,442,697, 5-6-69, Cl. 117-145.
Kaneda, Maomi: *See—*
Morita, Toshimitsu; Taki, Masuo; Kaneda, Maomi; and Kohno, Sakae,3,459,020.
Kanefusa, Yoshikiyo: *See—*
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo,3,446,173.
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo,3,483,842.
Kanegafuchi Boseki Kabushiki Kaisha: *See—*
Ando, Satoshi; Tanaka, Yusaku; and Ogata, Fumimaro, 3,458,390.
Hamahata, Sinichi, 3,433,006.
Kawase, Shigeru; Kitazawa, Tohru; Ohba, Hiroo; and Sagi, Kojiro, 3,484,273.
Matsui, Masao; and Tokura, Susumu, 3,425,107.
Matsui, Masao; and Nakamori, Tsuyoshi, 3,459,846.
Matsui, Masao, 3,480,996.
Matsumoto, Toyokazu; and Matsui, Masao, 3,442,073.
Nakahara, Masataka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro, 3,477,998.
Nakahara, Mastaka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro, 3,436,406.
Ogawa, Takeshi; and Suzusho, Hiroshi, 3,484,186.
Ueda, Keizo; Nagata, Koetsu; Fujita, Kentaro; and Iwamoto, Kazukiyo, 3,425,091.
Ueda, Keizo; Ando, Satoshi; and Kinoshita, Tetsuo, 3,463,847.
Kanegafuchi Chemical Industry Co., Ltd.: *See—*
Isogawa, Masataka, 3,463,833.
Oshima, Akio; Sakurai, Shinichi; and Matsuo, Tetsuo, 3,461,179.
Saito, Ichiro; Saito, Kazuo; and Tanaka, Takeshi, 3,446,873.
Kanegafuchi Spinning Co. Ltd.: *See—*
Matsui, Masao; and Tokura, Susumu, 3,471,605.
Kanehira, Kenji: *See—*
Yoshioka, Hiroshi; Oishi, Toshio; and Kanehira, Kenji,3,468,829.
Kaneko, Akira: *See—*
Hoshi, Yuji; and Kaneko, Akira,3,442,838.
Kaneko, Hisashi, to Nippon Electric Company, Limited. Synchronizing device for a pulse code transmission system. 3,482,044, 12-2-69, Cl. 178-53.
Kaneko, Kansaku; Fujiwara, Toshimasa; and Asada, Fumio, to Victor Company of Japan, Limited. Balanced DC motor rotor with spark reducing commutating arrangement. 3,487,248, 12-30-69, Cl. 310-220.
Kaneko, Kansaku; Fujiwara, Toshimasa; Samuta, Osamu; Miyasaka, Takao; and Kitamura, Kenichi, to Victor Company of Japan, Limited. Motor of outer rotor type. 3,458,740, 7-29-69, Cl. 310-67.
Kaneko, Keezi, to Fuji Shashin Film Kabushiki Kaisha. Film magazine for motion picture cameras. 3,434,782, 3-25-69, Cl. 352-72.
Kaneko, Keiji: *See—*
Sugino, Tadashi; and Kaneko, Keiji,3,484,056.
Kaneko, Kyozo; Matsuzawa, Tadahiro; Okouchi, Hideo; Nishimura, Tadao; and Yamamoto, Yukimasa, to Japan Gas-Chemical Company, Inc. Process for producing vinyl chloride. 3,466,338, 9-9-69, Cl. 260-656.
Kaneko, Ryutaro; and Kaneko, Yoshio. Automatic molding apparatus for ring-shaped doughnuts enclosing fillings. 3,452,687, 7-1-69, Cl. 107-1.
Kaneko, Taizo: *See—*
Kirimoto, Seiji; and Kaneko, Taizo,3,439,324.
Kaneko, Tamaki; and Kagari, Yoshiharu, to Kabushiki Kaisha. Detecting device for a copy sheet clamping device in an offset printing machine. 3,431,843, 3-11-69, Cl. 101-218.
Kaneko, Toyohisa: *See—*
Sezaki, Nobuhiko; Katagiri, Hiroshi; and Kaneko, Toyohisa,3,439,213.
Kaneko, Yoshio: *See—*
Kaneko, Ryutaro; and Kaneko, Yoshio,3,452,687.
Kanematsu Woollen Mills Ltd.: *See—*
Fujiwara, Goro; Oda, Takeshi; Todo, Nobuyoshi; and Yajima, Yukio, 3,436,342.
Kanemitsu, Haio: *See—*
Shiga, Akio; Furukawa, Hideyuki; and Kanemitsu, Haio,3,474,083.
Kanengieter, Glenn G., to Owatonna Manufacturing Company, Inc. Control for hydraulic drive mechanism. 3,461,669, 8-19-69, Cl. 60-53.
Kaneshiro, Hansel S. Toy striking stick. 3,454,274, 7-8-69, Cl. 272-76.
Kango Electric Hammers Limited: *See—*
Badcock, David Norman William, 3,456,743.
Badcock, David Norman William, 3,457,438.
Kangol Magnet Limited: *See—*
Kell, John, 3,458,233.
Kania, Gustav: *See—*
Colby, Joseph M.; Manor, Paul A.; and Kania, Gustav,3,460,802.
Kania, Robert C.; and Gregord, Thomas, to Titzel Engineering, Inc. Lance carriage stop. 3,446,316, 5-27-69, Cl. 187-83.
Kania, Robert Charles: *See—*
Gregord, Thomas; and Kania, Robert Charles,3,480,267.
Kanitz, Roy E., to Sperry Rand Corporation. Automatic two position posting mechanism. 3,480,343, 11-25-69, Cl. 312-223.
Kaniuka, Walter W., to United States of America, Navy. Apparatus for resisting control stick deflection. 3,478,990, 11-18-69, Cl. 244-85.
Kankeleit, Egbert, to California Institute Research Foundation. Apparatus for recording the absorption of gamma rays emanated from a source. 3,446,962, 5-27-69, Cl. 250-83.
Kann, Henry Robert, to Aluminum Extrusions, Inc. Structural support arrangement and method of assembling. 3,458,052, 7-29-69, Cl. 211-176.
Kannegiesser, Herbert; and Juraschеck, Richard, to Kannegiesser Maschinenfabrik Gesellschaft mit beschrankter Haftung. Gluing press for textile pieces. 3,434,910, 3-25-69, Cl. 156-583.
Kannegiesser, Herbert; and Juraschеck, Richard, to Kannegiesser Maschinenfabrik Gesellschaft mit beschrankter haftung. Device for the treatment of tubular fabric. 3,442,426, 5-6-69, Cl. 223-69.

Kannegiesser, Herbert; and Juraschek, Richard, to Kannegiesser Maschinenfabrik Gesellschaft mit beschrankter Haftung. Device for pressing textiles. 3,425,142, 2-4-69, Cl. 38-22.
Kannegiesser, Herbert; and Juraschek, Richard, to Kannegiesser Maschinenfabrik Gesellschaft mit beschrankter Haftung. Machine for pressing and treating textile articles. 3,482,341, 12-9-69, Cl. 38-22.
Kannegiesser Maschinenfabrik Gesellschaft mit beschrankter Haftung: *See—*
Kannegiesser, Herbert; and Juraschek, Richard, 3,425,142.
Kannegiesser, Herbert; and Juraschek, Richard, 3,434,910.
Kannegiesser, Herbert; and Juraschek, Richard, 3,442,426.
Kannegiesser, Herbert; and Juraschek, Richard, 3,482,341.
Kanner, Bernard. Isocyanate compounds and process for preparing same. 3,426,057, 2-4-69, Cl. 260-448.2
Kanner, Bernard; and Wheeler, Marshall L., Jr., to Union Carbide Corporation. Silicone ether-olefin graft copolymers and process for their production. 3,471,588, 10-7-69, Cl. 260-827.
Kannett, Irving. Electric insect killer. 3,464,144, 9-2-69, Cl. 43-112.
Kanno, Katsuo: *See—*
Ito, Shinya; Kanno, Katsuo; and Nakagawa, Ryoichi,3,481,683.
Kano, Gota: *See—*
Inoue, Morio; Kano, Gota; Matsuno, Jinichi; and Takayanagi, Shigetoshi,3,480,475.
Kano, Kunio, to Ono Pharmaceutical Co., Ltd. Method of producing uricase from yeast. 3,475,276, 10-28-69, Cl. 195-66.
Kano, Saburo: *See—*
Noguchi, Teruhisa; Komoto, Keisuke; Uchiyama, Yoshio; and Kano, Saburo,3,442,929.
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa, to Nippon Soda Kabushiki Kaisha. Insecticidal compositions and methods employing naphthyl fluoroacetamides. 3,448,195, 6-3-69, Cl. 424-324.
Kano, Saburo; Yamada, Yoshio; and Watanuki, Shigeo, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Piston control mechanism for waterless gas storage tank. 3,429,675, 2-25-69, Cl. 48-176.
Kano, Toshio: *See—*
Tsuchiya, Takeshi; Takahashi, Tetsuo; Yamamoto, Kiyoshi; Yanai, Akito; Takiura, Mikio; and Kano, Toshio,3,472,205.
Kanode, Wirth W. Die punch and slug ejector. 3,459,081, 08-0569, Cl. 83-140.
Kanof, Naomi M. Method and therapeutic device for stimulating vascular activity, production of granulation tissue and epithelialization in a cutaneous region. 3,420,233, 1-7-69, Cl. 128-260.
Kanoff, Bernard: *See—*
Burstein, Norman, 3,448,678.
Kanpatsu Kogyo Kabushiki Kaisha: *See—*
Ohsaki, Iwao; Fukui, Kazuyoshi; and Kitamura, Shinzo, 3,459,386.
Kansai Paint Company, Limited: *See—*
Sano, Ryuichi; and Ota, Zenji, 3,437,574.
Kansas State University Research Foundation: *See—*
Bartley, Erle E.; and Scott, George C., 3,465,083.
Kansas University Endowment Association, The: *See—*
Swift, George W.; and Kurata, Fred, 3,455,116.
Kansky, Evgen. Hermetically sealed electrode. 3,471,392, 10-7-69, Cl. 204-195.
Kanter, Jerome J., to Crane Co. Siliconized alpha-delta ferrous alloy. 3,438,802, 4-15-69, Cl. 117-106.
Kanto Gasukigu Kabushiki Kaisha: *See—*
Ameyama, Yoshiaki; and Takeda, Akira, 3,428,408.
Kanto Special Steel Works, Ltd.: *See—*
Iseki, Takeshi; Koga, Kosho; and Ito, Seiji, 3,426,414.
Kantola, Robert A., to General Electric Company. Fluid amplifiers. 3,457,935, 7-29-69, Cl. 137-81.5
Kantor, Frederick W. Centrifugal absorptive thermodynamic apparatus and method. 3,456,454, 7-22-69, Cl. 62-101.
Kantor, Frederick W. Thermodynamic apparatus and method. 3,470,704, 10-7-69, Cl. 62-115.
Kantor, Grigory Vladimirovich: *See—*
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.
Kantor, Leonard: *See—*
Bogen, Morton A.; and Kantor, Leonard,3,441,462.
Kantor, Misha I., to Radiation Incorporated. Apparatus for cleaning electrical contacts. 3,436,785, 4-8-69, Cl. 15-301.
Kantor, Misha I., to Radiation, Incorporated. Electronically controlled interference filter. 3,459,467, 8-5-69, Cl. 350-163.
Kantrowitz, Philip: *See—*
Muttick, Richard P.; Di Vico, Louis A.; and Kantrowitz, Philip,3,426,163.
Kantz, Don B.: *See—*
Kremidas, James R.; and Kantz, Don B.,3,433,241.
Kantz, Melvin R., to Monsanto Research Corporation. Tangent fitter including a straight edge and an image splitting element. 3,481,039, 12-2-69, Cl. 33-75.
Kanyok, Anthony J., to American Standard Inc. Filtration system seal. 3,480,147, 11-25-69, Cl. 210-321.
Kanyok, Anthony J.: *See—*
Kalish, Robert L.; Kanyok, Anthony J.; Hulick, Warren E.; and Hamer, Edward A. G.,3,421,782.
Kanzaki Kokyu Koki Mfg. Co., Ltd.: *See—*
Inoue, Yoshiji, 3,486,551.
Kanzelmeyer, James H.: *See—*
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H.,3,483,046.
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H.,3,484,305.
Kao, Chung-Chin. Automatic egg roll machine. 3,450,067, 6-17-69, Cl. 107-1.
Kao, Henry C., to Interchemical Corporation, mesne. Resinous coating composition. 3,446,784, 5-27-69, Cl. 260-78.5
Kao Soap Co., Ltd.: *See—*
Funatsu, Makoto; and Torimae, Yasuhiro, 3,445,396.
Kakegawa, Sadao; Matsuyama, Katsumi; and Naganuma, Yoshinori, 3,424,689.
Ohtsuka, Shunzo; and Doi, Tadashi, 3,466,247.
Kapar, Charles, to Grace, W. R., & Co., mesne. Fertilizer comprising urea an nitrilotriacetonitrile. 3,427,144, 2-11-69, Cl. 71-28.
Kapart, Inc.: *See—*
Artzt, William Walter, 3,435,461.
Kape, James M., to Acorn Anodising Company Limited. Anodising of aluminium and its alloys. 3,472,744, 10-14-69, Cl. 204-58.
Kaper, Ronald G.: *See—*
Clark, Kendall; De Turris, Frank L.; and Kaper, Ronald G.,3,483,495.
Kapff, Sixt Frederick, to Standard Oil Company (Indiana). Air dilution attachment for explosive-gas analyzers. 3,447,359, 6-3-69, Cl. 73-23.
Kapff, Sixt Frederick; and Cropper, Wendell P., to Standard Oil Company (Indiana). Apparatus for determining density of a sample liquid. 3,453,891, 7-8-69, Cl. 73-439.
Kapilow, Marvin; Martinez, Eugene; and Reibel, Robert H. Splice patch for super 8 film. 3,475,263, 10-28-69, Cl. 161-102.
Kapitanov, Nikolai Nikolaevich; Petrova, Natalia Petrovna; and Jurasova, Nina Vasilievna. Surgical apparatus for suturing tissues with metal staples. 3,482,428, 12-9-69, Cl. 72-410.
Kaplan, Berta Lvovna: *See—*
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich,3,447,625.
Kaplan, David. Binder. 3,421,503, 1-14-69, Cl. 128-165.
Kaplan, Donald J., to Owatonna Tool Company. Torque converter cleaning process and apparatus. 3,472,250, 10-14-69, Cl. 134-111.
Kaplan, Earl, to American Cyanamid Company. Synergistic stabilizing composition for polyolefins. 3,462,392, 8-19-69, Cl. 260-45.85
Kaplan, Irving I.: *See—*
Ruggles, Norman A.; and Kaplan, Irving I.,3,461,407.
Kaplan, Irving Leonard, to Krasny, Carl, & Associates, Inc. Bar handling device. 3,474,914, 10-28-69, Cl. 214-1.
Kaplan, Irving, to Label-Matic, Inc. Apparatus for feeding and attaching labels. 3,420,172, 1-7-69, Cl. 101-291.
Kaplan, John Joseph. Method and apparatus for removing meat from animal carcasses. 3,478,385, 11-18-69, Cl. 17-46.
Kaplan, Joseph A., & Sons, Inc.: *See—*
Dickinson, Sanford C., 3,434,858.
Kaplan, Joseph M., 45% to Kaplan, Sanford. Quick release animal restraining device. 3,455,281, 7-15-69, Cl. 119-110.
Kaplan, Joseph. Bi-directional limit torque slip element. 3,450,365, 6-17-69, Cl. 242-67.4
Kaplan, Kenneth R., to RCA Corporation. Threshold gate logic and storage circuits. 3,456,126, 7-15-69, Cl. 307-211.
Kaplan, Kenneth R., to RCA Corporation. Shift registers employing threshold gates. 3,458,734, 7-29-69, Cl. 307-289.
Kaplan, Leonard A.; and Hart, Oliver P., to RCA Corporation. Automatic gain control system employing multiple insulated gate field effect transistor. 3,482,167, 12-2-69, Cl. 325-404.
Kaplan, Lloyd A.; and Upton, Joshua D., Jr., to United States of America, Navy. Extraction-crystallization apparatus. 3,420,746, 1-7-69, Cl. 202-169.
Kaplan, Martin L.: *See—*
Crocker, Richard E.; Kaplan, Martin L.; and Hayes, Charles H.,3,442,954.
Kaplan, Martin; and Quist, Eric G., to Mosler Research Products, Inc. Acoustical alarm system. 3,487,397, 12-30-69, Cl. 340-261.
Kaplan, Melvin: *See—*
Shultz, Andrew; and Kaplan, Melvin,3,455,836.
Kaplan Paper Box Co.: *See—*
Richgels, Eugene, 3,478,949.
Kaplan, Robert S.: *See—*
Globerman, Irving; and Kaplan, Robert S.,3,464,497.
Kaplan, Robert W.: *See—*
McMillan, James O.; and Kaplan, Robert W.,3,438,644.
Kaplan, Ronald M., to Singer Company, The. Multiple sewing mode presser-foot. 3,425,378, 2-4-69, Cl. 112-235.

Kaplan, Ronald M., to Singer Company, The. Sewing machine pneumatic needle threaders. 3,486,472, 12-30-69, Cl. 112-225.
Kaplan, Ronald M.; and Ketterer, Stanley J., to Singer Company, The. Sewing machine automatic work steering mechanisms. 3,472,187, 10-14-69, Cl. 112-212.
Kaplan, Sam H., to Rauland Corporation, The. Lighthouse intensity exposure control lens. 3,420,150, 1-7-69, Cl. 95-1.
Kaplan, Sam H., to Rauland Corporation, The. Process for screening a color cathode-ray tube. 3,434,836, 3-25-69, Cl. 96-36.1
Kaplan, Sanford: *See—*
Kaplan, Joseph M., 3,455,281.
Kaplan, Stanley I. Means for dispensing separately stored substances. 3,472,423, 10-14-69, Cl. 222-129.
Kaplitt, Martin J.: *See—*
Sobel, Sol; and Kaplitt, Martin J.,3,481,338.
Kaposi, George. Portable arm chair table. 3,475,052, 10-28-69, Cl. 297-153.
Kapp, Gerald E.: *See—*
Krieg, Thomas J.; and Kapp, Gerald E.,3,436,989.
Kapp, Ludwig J., to Monroe International, Inc. Reed operated printer. 3,461,996, 8-19-69, Cl. 197-55.
Kappe, Klaus-Friedrich, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Device for hydraulically blocking the spring means for a crane supporting vehicle. 3,451,692, 6-24-69, Cl. 280-104.5
Kappe, Stanley E., to FMC Corporation. Method and apparatus for treating waste materials. 3,477,947, 11-11-69, Cl. 210-3.
Kappelhoff, Hermann; Gunnerich, Max Georg; Paul, Walter; Steinbeck, Walter; and Niemeyer, Willy, to Windmoller & Holscher. Cross-bottom sack and apparatus for manufacturing same. 3,448,666, 6-10-69, Cl. 93-8.
Kappelman, Clark F. Vehicle parking device. 3,451,164, 6-24-69, Cl. 49-35.
Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann, to Siemens Aktiengesellschaft. Method and apparatus for epitaxial deposition of semiconductor material. 3,471,326, 10-7-69, Cl. 117-228.
Kappey, Hans-Joachim: *See—*
Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, Hans-Joachim; Bornefeld, Horst; and Deissmann, Walter,3,451,835.
Kappus, Gunter: *See—*
Brunnee, Curt; and Kappus, Gunter,3,426,192.
Brunnee, Curt; and Kappus, Gunter,3,431,451.
Brunnee, Curt; and Kappus, Gunter,3,444,366.
Kapr, Jiri; and Lachman, Stanislav, to Elektro-Praga Hlinsko. Flat iron. 3,486,256, 12-30-69, Cl. 38-88.
Kaps, Gerhard, to U.S. Philips Corporation, mesne. Device for synchronizing pulses. 3,471,790, 10-7-69, Cl. 328-63.
Kaps, Gerhard; and Schott, Winfried, to U.S. Philips Corporation, mesne. Device for classifying measured values by counting. 3,448,251, 6-3-69, Cl. 235-92.
Kapteyn, Paul; and Schmidt, Walter. Photographic camera including an electronic flash device. 3,437,021, 4-8-69, Cl. 95-11.
Kapteyn, Paul; and Schmidt, Walter. Electronic flashgun for photographic purposes. 3,458,696, 7-29-69, Cl. 240-1.3
Kaptur, Robert E.: *See—*
Bookout, Charles C.; and Kaptur, Robert E.,3,424,284.
Kaptur, Robert E., to Ford Motor Company. Fluid coupling in series with synchronized positive clutch. 3,438,470, 4-15-69, Cl. 192-3.33
Kaptur, Robert E., to Ford Motor Company. Fluid pressure control system. 3,439,584, 4-22-69, Cl. 91-443.
Kaptur, Robert E., to Ford Motor Company. Ratio controls for a hydrokinetic power transmission mechanism. 3,440,903, 4-29-69, Cl. 74-732.
Kaptur, Robert E., to Ford Motor Company. Fluid pressure control system. 3,454,031, 7-8-69, Cl. 137-115.
Kaptur, Robert E., to Ford Motor Company. Gearing for a unitary starter-alternator with variable ratio characteristics. 3,481,220, 12-2-69, Cl. 74-675.
Kapustin, Jury Mikhailovich: *See—*
Vinogradov, Alexandr Sergeevich; Kapustin, Jury Mikhailovich; Maxjutenko, Ilya Nikolaevich; Kiselnikov, Vladimir Nikolaevich; Borisov, Igor Sergeevich; and Mazalov, Ivan Mikhailovich,3,419,940.
Karabinos, Joseph V.: *See—*
Dietrich, Heinz J.; Karabinos, Joseph V.; and Raynor, Robert J.,3,427,326.
Dietrich, Heinz J.; King, George G.; and Karabinos, Joseph V.,3,427,147.
Hazy, Andrew C.; and Karabinos, Joseph V.,3,440,289.
Karakashian, Zaven Oganezovich; Lariokhin, Vladimir Ivanovich; and Kazakov, Valentin Mikhailovich. Articulated railway car connector and truck. 3,476,040, 11-4-69, Cl. 105-4.
Karakashian, Zaven Oganezovich; Lriokhin, Vladimir Ivanovich; and Kazakov, Valentin Mikhailovich. Brake rigging for a three-bogie composite railway car. 3,420,339, 1-7-69, Cl. 188-47.
Karakawa, Hajime. World time clock system. 3,472,021, 10-14-69, Cl. 58-43.
Karamata, Jean; and Celebonovic, Stevan, to Rolpa S.a.r.l. Device for winding off flexible material. 3,464,644, 9-2-69, Cl. 242-75.43
Karan, Clarence: *See—*
Napier, John; Sopher, Raeman P.; Totta, Paul A.; De Witt, David; and Karan, Clarence,3,458,925.
Karapinka, George L.: *See—*
Carrick, Wayne L.; and Karapinka, George L.,3,449,429.
Karasinski, Frank J.: *See—*
Battista, Orlando A.; and Karasinski, Frank J.,3,431,090.
Battista, Orlando A.; and Karasinski, Frank J.,3,475,168.
Karazija, Arvin, to Allis-Chalmers Manufacturing Company. Two-pump system for lift cylinder. 3,443,380, 5-13-69, Cl. 60-52.
Karbo, Richard S., to Leisure Group, Inc., The, mesne. Pattern sprinkler. 3,452,930, 7-1-69, Cl. 239-70.
Karbosky, Joseph T. B.t.u. regulation of a material stream. 3,429,805, 2-25-69, Cl. 208-354.
Karbowski, John S.: *See—*
Downs, Robert E.; and Karbowski, John S.,3,480,807.
Karch, Walter C.: *See—*
Whiting, Harold E.; Karch, Walter C.; and McFadden, David B.,3,422,317.
Karcher, Alfred: *See—*
Muller, Jorg, 3,421,694.
Karcher, Edmund A.: *See—*
Hierholzer, Frank J., Jr.; Metcalf, Gordon L.; and Karcher, Edmund A.,3,448,299.
Kardash, John J., to Sylvania Electric Products, Inc. Tansistor logic circuits employed in a high speed adder. 3,440,412, 4-22-69, Cl. 235-175.
Kardash, John J., to Sylvania Electric Products, Inc. Bistable logic circuit. 3,473,051, 10-14-69, Cl. 307-269.
Kardash, John J., to Sylvania Electric Products, Inc. Two input bistable logic circuit of the delay flip- flop type. 3,473,053, 10-14-69, Cl. 307-291.
Kardaun, Georg; and Smeets, Hubertus H., to Stamicarbon N.V. Process for the production of molded objects. 3,479,251, 11-18-69, Cl. 201-5.
Kardel, John V. Dispenser for fluid material. 3,420,417, 1-7-69, Cl. 222-390.
Karden, Karl Gosta, to Atlas Copco Aktiebolag. Retaining means. 3,436,107, 4-1-69, Cl. 287-53.
Kardos, Otto: *See—*
McMullen, Warren H.; and Kardos, Otto,3,474,010.
Kardys, Joseph A., to Pfizer, Chas., & Co., Inc. Palladium-lead catalysts. 3,477,962, 11-11-69, Cl. 252-412.
Kare, Morley R., to Monsanto Company. Rodenticide dispenser. 3,466,789, 9-16-69, Cl. 43-131.
Karickhoff, Michael: *See—*
Davis, Howard Arthur; and Karickhoff, Michael,3,455,720.
Karickhoff, Michael, to Du Pont de Nemours, E. I., and Company. Process for treating linear polyesters to modify the surface appearance and characteristics thereof. 3,446,886, 5-27-69, Cl. 264-234.
Karig, Erhardt; and Kirchner, Herbert, to Reimers-Getriebe A.G., mesne. Transmission, motor and brake control. 3,426,624, 2-11-69, Cl. 74-846.
Kariher, Donald H.; and Smith, Thomas W., to Hollister Incorporated. Specimen collector. 3,438,366, 4-15-69, Cl. 128-2.
Karikawa, Toru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera shutter cocking and film advancing mechanism. 3,481,553, 12-2-69, Cl. 242-71.5
Karinthi, Pierre Yves; and Spire, Etienne, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of improving the properties of a ferrous metal in the molten state. 3,484,232, 12-16-69, Cl. 75-45.
Kariyone, Kazuo: *See—*
Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko,3,428,648.
Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko,3,487,089.
Karkalits, Olin C., Jr., to Petro-Tex Chemical Corporation. Preparation of unsaturated compounds. 3,426,094, 2-4-69, Cl. 260-680.
Karkalits, Olin C., Jr., to Petro-Tex Chemical Corporation. Preparation of unsaturated hydrocarbons. 3,433,850, 3-18-69, Cl. 260-680.
Karkalits, Olin C., Jr.; and Leatherwood, Clyde A., to Petro-Tex Chemical Corporation. Process of dehydrogenation. 3,426,093, 2-4-69, Cl. 260-680.
Karkalits, Olin C., Jr.: *See—*
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,420,911.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,420,912.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,428,703.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr.,3,440,299.
Karkoska, Charles. Decorative ornament and method of producing it. 3,457,134, 7-22-69, Cl. 161-9.

Karkow, Waldemar B., to Photo Instrument Tooling Company. Reciprocating piston metering pump. 3,461,805, 8-19-69, Cl. 103-38.
Karkut, Henry E., Inc.: *See—*
Karkut, Henry E., 3,430,774.
Karkut, Henry E., to Karkut, Henry E., Inc. Card rack. 3,430,774, 3-4-69, Cl. 211-50.
Karl, Heinz Georg; and Roos, Borje Mats Ingvar, to Telefonaktiebolaget L M Ericsson. Modulator employing a pair of transistors biased for class AB operation. 3,469,212, 9-23-69, Cl. 332-31.
Karl, Leopold; and Engert, Hubert, to Kindermann & Co., G.m.b.H. Manually operable cutting device particularly for films. 3,443,314, 5-13-69, Cl. 30-237.
Karl, Lorenz: *See—*
Mlacker, Siegfried; Mack, Hans; and Karl, Lorenz,3,426,535.
Karl, Raymond O.: *See—*
Brown, Earl J.; Crowder, James R.; and Karl, Raymond O.,3,434,940.
Karl Steinhof Apparatefabrik, Firma: *See—*
Schurich, Herbert, 3,429,145.
Karl, Thomas M. Apparatus for contolling intake air temperature. 3,441,011, 4-29-69, Cl. 123-122.
Karlak, Robert F., to Lockheed Aircraft Corporation. Method of coating articles with titanium and related metals and the article produced. 3,446,643, 5-27-69, Cl. 117-22.
Karlan, Jac H. Resilient closure with a frangible skirt. 3,473,685, 10-21-69, Cl. 215-41.
Karlan, Paul. Rotary valve cam engine. 3,456,630, 7-22-69, Cl. 123-58.
Karlbom, Nils Gunnar Rikard, to Ingeniorsfirma G. Karlbom A.B. Fluid-detecting system. 3,427,869, 2-18-69, Cl. 73-73.
Karlby, Henning; Grundy, Howard Reed; Speer, John R.; and Hall, George D., to Rockwell Manufacturing Company. Permanent magnet stator DC motor with hand tool gear train. 3,427,484, 2-11-69, Cl. 310-47.
Karle, Franklin J.; and Gohlke, Roland S., to Dow Chemical Company, The. Electron source for mass spectrometer. 3,471,735, 10-7-69, Cl. 313-230.
Karlen, Bo Lennart: *See—*
Dahlbom, Johan Richard; and Karlen, Bo Lennart,3,444,171.
Karlen, Harvey R., to Cory Corporation. Beverage brewer and dispenser. 3,444,803, 5-20-69, Cl. 99--285
Karlen, Harvey R., to Cory Corporation. Liquid heater. 3,470,897, 10-7-69, Cl. 137-134.
Karlen, Harvey R.; and Eisendrath, David C., to Cory Corporation. Brewing apparatus. 3,433,149, 3-18-69, Cl. 99-282.
Karlen, Harvey R.; Wagner, Herbert E.; and Eisendrath, David C., to Cory Corporation. Fluid treatment apparatus. 3,467,130, 9-16-69, Cl. 137-268.
Karlen, Harvey R.: *See—*
Wagner, Herbert E.; and Karlen, Harvey R.,3,443,590.
Karlinsky, Stanislav Evgenievich: *See—*
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich,3,480,074.
Karll, Robert E.: *See—*
Culbertson, George S.; Sabol, Albert R.; and Karll, Robert E.,3,456,027.
Karlquist, Fred B., to Pamarco, Inc. Plating fixture. 3,462,357, 8-19-69, Cl. 204-297.
Karlsen, Asjorn, to Hardman Aerospace, mesne. Aircraft seating structure. 3,439,889, 4-22-69, Cl. 244-122.
Karlson, John E. Open end waveguide antenna. 3,445,852, 5-20-69, Cl. 343-772.
Karlson, Richard Warren, to Eastman Kodak Company. Direct-print silver halide emulsions containing a halogen acceptor and an amine compound as a stabilizer. 3,486,901, 12-30-69, Cl. 96-94.
Karlsruhe, Baden: *See—*
Six, Ludwig; Niemann, Rudolf; and Karlsruhe, Baden,3,442,216.
Karlsson, Elof K.: *See—*
Rowland-Hill, Edward William; De Pauw, Richard A.; and Karlsson, Elof K.,3,481,342.
Karlsson, Frans Harry. Valves. 3,465,785, 9-9-69, Cl. 137-447.
Karlsson, Gun: *See—*
Lindholm, Ingemar; and Karlsson, Gun,3,470,030.
Karlsson, Per Hilmer, to Air Preheater Company, Inc., The, mesne. Catalytic apparatus for removing sulphur dioxide from flue gas. 3,436,192, 4-1-69, Cl. 23-288.
Karlsson, Sven Olof: *See—*
Grees, Karl Lennart; and Karlsson, Sven Olof,3,462,619.
Karlstrom, Goran Knut Samuel. Method and arrangement for making and mounting gold crowns, metal bridges and the like. 3,473,223, 10-21-69, Cl. 32-12.
Karlstrom, Karl R. M.: *See—*
Dodds, Gerald C.; Karlstrom, Karl R. M.; and Kort, Werner W.,3,467,023.
Karma (New Maldeno) Limited: *See—*
Richardson, Arthur W., 3,420,612.
Karmann, Thomas R., to Valmont Industries, Inc. Automatic shutoff device for a traveling irrigation sprinkler apparatus. 3,454,224, 7-8-69, Cl. 239-184.
Karmann, Thomas R. Traveling irrigation sprinkler apparatus. 3,478,964, 11-18-69, Cl. 239-191.
Karmas, George, to Ortho Pharmaceutical Corporation. Acylthioalkylthioenol ethers and method of preparation. 3,427,330, 2-11-69, Cl. 260-397.3
Karmazin, John. Return bend construction for heat exchangers. 3,430,692, 3-4-69, Cl. 165-134.
Karmell, Yale; and Geiger, Kermit K., to Samuel Bingham Company. Rubber covered steel mill rollers. 3,451,112, 6-24-69, Cl. 29-130.
Karmen, Arthur, to United States of America, Health, Education and Welfare. Method and means for detecting a halogen or phosphorus in a gaseous material. 3,425,806, 2-4-69, Cl. 23-232.
Karnaugh, Maurice, to Bell Telephone Laboratories, Incorporated. Time division switching centers having mutually controlled oscillators. 3,457,372, 7-22-69, Cl. 179-15.
Karner, Friedrich A., to International Business Machines Corporation. Threshold detector employing tunnel diode-hot carrier diode-transistor in combination with backward diode for isolation. 3,427,472, 2-11-69, Cl. 307-235.
Karner, Friedrich A., to International Business Machines Corporation. Floating tunnel diode hybrid latch. 3,487,235, 12-30-69, Cl. 307-253.
Karnes, Harold A.: *See—*
Newman, Melvin S.; and Karnes, Harold A.,3,476,791.
Karnjushin, Leonid Vasilievich: *See—*
Pivovaro, Lev Vladimirovich; and Karnjushin, Leonid Vasilievich,3,462,675.
Karnkowski, Tadeusz, to Textron, Inc. Roll-changing apparatus for a rolling mill. 3,436,945, 4-8-69, Cl. 72-239.
Karnofsky, George B., to Blaw-Knox Company. Saline water conversion system. 3,478,531, 11-18-69, Cl. 62-123.
Karnofsky, George B., to Blaw-Knox Company. Heat interchange apparatus for saline liquid conversion systems. 3,486,346, 12-30-69, Cl. 62-123.
Karnow, Paul; and Hutchins, Blanchard S., to United States of America, Navy. Aircraft ejection seat dolly. 3,424,474, 1-28-69, Cl. 280-79.2
Karoll, Paul. Multiple panel screen. 3,444,919, 5-20-69, Cl. 160-184.
Karp, Arthur; Winslow, Donald K.; and Shaw, Herbert J., to Research Corporation. Microwave slow wave dielectric structure and electron tube utilizing same. 3,475,642, 10-28-69, Cl. 315-3.5
Karp, Edward C., to Sanitary Scale Company. Slicer. 3,442,312, 5-6-69, Cl. 146-102.
Karp, Johann; and Krebsbach, Friedhelm, to Dynamit Nobel Aktiengesellschaft. Pipe coupling having identical halves for joining plastic pipes. 3,430,988, 3-4-69, Cl. 285-5.
Karp, William, to Laboratory for Electronics, Inc. Holder for containers of radioactive material. 3,428,281, 2-18-69, Cl. 248-146.
Karpchuk, Sylvester, to Tinius Olsen Testing Machine Company. High speed balancing machine. 3,479,885, 11-25-69, Cl. 73-460.
Karpeka, Viktor Alexandrovich: *See—*
Butkevich, Vladimir Alexandrovich; Evteev, Dmitry Petrovich; Karpeka, Viktor Alexandrovich; Pravdin, Viktor Sergeevich; and Isjun, Alexandr Kononovich,3,438,425.
Karpenko, Marija Pavlovna: *See—*
Kulbakh, Valter Osvaldovich; and Karpenko, Marija Pavlovna,3,476,856.
Karpinskaya, Vera Borisovna: *See—*
Shonin, Leonid Nikolaevich; Konoplev, Jury Sergeevich; Komarov, Jury Alexandrovich; Ivanov, Igor Nikolaevich; Silin, Mikhail Danilovich; Veyalis, Nina Petrovna, and; and Karpinskaya, Vera Borisovna,3,443,432.
Karpovich, John: *See—*
Hittel, George T.; and Karpovich, John,3,454,428.
Karpovich, John. Method and apparatus for generating shock waves in a liquid. 3,481,784, 12-2-69, Cl. 134-1.
Karr, Hugh J.: *See—*
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John,3,441,775.
Karr, Robert I.: *See—*
Oates, Norford L.; and Karr, Robert I.,3,456,287.
Karras, Ernest C.; and Dicius, Renualdas P., to International Telephone and Telegraph Corporation. Card extender. 3,440,593, 4-22-69, Cl. 339-17.
Karrberg, Gustaf H. Apparatus for threading or screwing together the ends of helical springs. 3,433,274, 3-18-69, Cl. 140-88.
Karrer, Henry E.: *See—*
Becker, John C.; Benjaminson, Albert; Blanz, Jerry A.; Karrer, Henry E.; and Moffat, Robert J.,3,456,216.
Karrer, Karl; and Linzberger, Robert, to Buhler, Gebruder. Automatic control of feed material in a comminuting mill. 3,468,488, 9-23-69, Cl. 241-34.
Karrip, Alexander A. Polishing composition consisting of a polysaccharide and an abrasive. 3,420,681, 1-7-69, Cl. 106-5.
Kars, Franciscus A.: *See—*
Heunks, Antonius M. A.; Kars, Franciscus A.; and Hofenk, Gerrit,3,446,601.

Karsh, Herbert, to Lexington Instrument Corporation. Ectopic beat detector. 3,438,368, 4-15-69, Cl. 128-2.06
Karsh, Herbert, to Lexington Instrument Corporation. Electrocardiographic device for detecting QRS widening. 3,460,527, 8-12-69, Cl. 128-2.06
Karsh, Herbert, to Lexington Instrument Corporation. Ectopic beat detector. 3,463,143, 8-26-69, Cl. 128-2.06
Karsh, Herbert, to Lexington Instrument Corporation. Defibrillator paddle stand including means for applying electrocardiographic electrode paste to paddles and permitting paste conductivity tests. 3,467,863, 9-16-69, Cl. 324-65.
Karsh, Herbert; and Goldberg, Harold S., to Lexington Instrument Corporation. Ectopic beat detector. 3,438,367, 4-15-69, Cl. 128-2.06
Karsten, Ralph, to Screen-Flock Industries, Inc. Method for printing on foamed polystyrene with cellulose ether printing composition. 3,458,340, 7-29-69, Cl. 117-38.
Kartluke, Herbert: *See*—
Boyd, Charles A.; and Kartluke, Herbert,3,436,188.
Kartman, Helge Carl Christian, to Smidth, F. L., & Co. Apparatus and method for making a slurry. 3,459,380, 8-5-69, Cl. 241-43.
Kartridg Pak Co., The: *See*—
Brinkley, Earl; and Doyle, John R., 3,426,812.
Kartsev, Alexandr Efimovich: *See*—
Akunts, Karlen Arminakovich; Kartsev, Alexandr Efimovich; Elchaninov, Ivan Nikiforovich; Tarnopolsky, Jury Matveevich; and Fish, Aron Yakovlevich,3,457,446.
Kasaczun, Leo F.: *See*—
Rath, Harry B.; and Kasaczun, Leo F.,3,456,437.
Kasahara, Akira: *See*—
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru,3,426,023.
Kasahara, Shigenobu: *See*—
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji,3,440,035.
Kasahara, Toshio, to. Showa Electric Wire and Cable Co., Ltd. Method of jointing sheaths of aluminum-sheathed cables. 3,447,986, 6-3-69, Cl. 156-49.
Kasahara, Yasuo, to Shimada, Shoichi. Automatic current limiting circuit breaker. 3,453,566, 7-1-69, Cl. 335-16.
Kasanof, David R.: *See*—
Edlein, Saul; Kasanof, David R.; and Kimmel, Elias,3,471,422.
Kasdan, Nathan. Renewable heel for footwear. 3,455,038, 7-15-69, Cl. 36-39.
Kase, Schuyler. Static digital to analog converters. 3,426,345, 2-4-69, Cl. 340-347.
Kase, Yoshitoshi: *See*—
Miyano, Seiji; and Kase, Yoshitoshi,3,471,501.
Kasei Kogyo Kabushiki Kaisha: *See*—
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide, 3,437,633.
Kasei, Nitto: *See*—
Katsumura, Tatsuo; Kataoka, Hirohisa; Mizuno, Yutaka; Tsutsui, Tsutomu; and Nishihara, Tadashi, 3,423,482.
Kasemir, Heinz W., to United States of America, Army. Electric field meter having a pair of rotating electrodes for measuring the strength and direction of an electric field. 3,458,805, 7-29-69, Cl. 324-72.
Kaser, Louis D.: *See*—
Zwiacher, Wayne E.; Kaser, Louis D.; Johnson, Maurice V., Jr.; Fennell, Alfred H.; and Riddington, Fred W.,3,465,495.
Kasha, Michael. Guitar construction. 3,443,465, 5-13-69, Cl. 84-267.
Kashihara, Manabu, to Shimpo Kogyo Kabushiki Kaisha. Variable speed transmission of concave cone wheel type. 3,452,622, 7-1-69, Cl. 74-796.
Kashikura, Hisae: *See*—
Noro, Hiromitsu; and Kashikura, Hisae,3,484,615.
Kashima, Syunsaku: *See*—
Tada, Yoshinosuke; Mizuno, Syoji; Kashima, Syunsaku; Yasui, Seiichi; and Sugiura, Taku,3,420,453.
Kashima, Yoshitake, to Hitachi, Ltd. Winding for a stationary induction electrical apparatus. 3,466,584, 9-9-69, Cl. 336-70.
Kashino, Junn S.: *See*—
Liddall, Jack Anthony, 3,427,911.
Kashiwaba, Yukio, to Tsuchiya Manufacturing Company Limited. Clogging indicator for air cleaners. 3,465,707, 9-9-69, Cl. 116-70.
Kashiwagi, Etsuo; and Murakami, Hiroshi, to Nippon Electric Company Limited. Method and apparatus for writing information into plated wire magnetic film memories. 3,478,336, 11-11-69, Cl. 340-174.
Kashiwagi, Tetsuo: *See*—
Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao,3,434,277.
Kashiwase, Toshio, to Nippon Kogaku K.K. Zoom lens barrel for cameras. 3,465,662, 9-9-69, Cl. 95-45.
Kashkin, Ronald; Lombardo, Peter P.; and Pomeranz, Harry, to Cutler-Hammer, Inc. High idler diode parametric amplifier. 3,443,233, 5-6-69, Cl. 330-4.9
Kashubara, Daniel. Internal combustion engine lugging recorder. 3,464,262, 9-2-69, Cl. 73-117.3
Kasimova, Adilya Khanum Panakh-Kyzy: *See*—
Aliev, Nagab Safarovich; Kasimova, Adilya Khanum Panakh-Kyzy; and Ter-Sarkisov, Beniamin Georgievich,3,453,344.
Kaske, Alan D., to Sperry Rand Corporation. Magnetizable memory element having a plurality of read-only data states. 3,480,928, 11-25-69, Cl. 340-174.
Kasman, Sidney; and Rogers, Howard G., to Polaroid Corporation. Novel photographic products and processes. 3,438,775, 4-15-69, Cl. 96-3.
Kason Hardware Corporation: *See*—
Berkowitz, Irving L., 3,472,545.
Kaspar, Jan; Soudek, Josef; and Gutwirth, Karel. Apparatus for dynamic filtration of liquids. 3,437,208, 4-8-69, Cl. 210-297.
Kaspar, Jan: *See*—
Nemec, Jindrich; Kaspar, Jan; and Soudek, Josef,3,477,575.
Kaspaul, Alfred F.; and Kaspaul, Erika E., to Minesota Mining and Manufacturing Company. Electronic beam recording with vapor deposition development. 3,462,762, 8-19-69, Cl. 346-74.
Kaspaul, Erika E.: *See*—
Kaspaul, Alfred F.; and Kaspaul, Erika E.,3,462,762.
Kasper, Francis J., to Bell Telephone Laboratories, Incorporated. Microwave phase shifter. 3,440,570, 4-22-69, Cl. 333-10.
Kasper, Witold A. Aircraft. 3,438,597, 4-15-69, Cl. 244-13.
Kasperl, Herbert; Tischbirek, Gunther; and Worms, Karl-Heinz, to Henkel & Cie, GmbH. Highly alkaline storable and non-foaming bottle cleansing agents. 3,463,737, 8-26-69, Cl. 252-153.
Kasprzycki, Joseph T.; and Holden, Roy J., to ACF Industries, Incorporated. Railway tank car. 3,450,066, 6-17-69, Cl. 105-362.
Kass, Robert A.; and Schmidt, Harvey W., to Allis-Chalmers Manufacturing Company. Portable screening plant. 3,439,806, 4-22-69, Cl. 209-260.
Kass, Robert E.: *See*—
Yoncoskie, Robert A.; Kass, Robert E.; Hanny, John F.; and Whitaker, John G.,3,455,848.
Kassal, Robert James, du Pont de Nemours, E. I., and Company. Process for the synthesis of olefin oxides. 3,428,658, 2-18-69, Cl. 260-348.5
Kasschau, Kenneth, to Westinghouse Electric Corporation. Thermoelectric device with plastic strain inducing means. 3,481,794, 12-2-69, Cl. 136-208.
Kassel, Charles; Sachnine, Philippe; and Vuillemey, Roland, to Commissariat a l'Energie Atomique. Multi-stage distillation with direct contact water-immiscible liquid and serially connected ejectors. 3,486,987, 12-30-69, Cl. 203-11.
Kassen, William J. Heater assembly. 3,482,080, 12-2-69, Cl. 219-535.
Kasser, Alexander; and Kasser, Ivan Michael. Cellulose dissolving pulp produced from grain parchment. 3,429,771, 2-25-69, Cl. 162-82.
Kasser, Ivan Michael: *See*—
Kasser, Alexander; and Kasser, Ivan Michael,3,429,771.
Kassl Window Company, Inc.: *See*—
Weidner, Ralph J.; and Benigno, James, 3,434,236.
Kast, Howard B., to General Electric Company. Control system having output variably responsive to two signal inputs. 3,433,021, 3-18-69, Cl. 60-242.
Kast, Howard B., to General Electric Company. Combined pressure control valve and pressure relief valve having a flat pressure-flow characteristic. 3,465,778, 9-9-69, Cl. 137-117.
Kast, Howard B.: *See*—
Beitler, Richard S.; Corley, Ralph C.; and Kast, Howard B.,3,456,881.
Hurtle, James E.; and Kast, Howard B.,3,442,284.
Kastanek, Joseph; and Kessler, Harold D., to Reactive Metals, Inc. Method of refining the macrostructure of titanium alloys. 3,470,034, 9-30-69, Cl. 148-11.5
Kastar, Inc.: *See*—
Everett, Milton C., 3,462,082.
Kasten, John E. Plow harrow. 3,439,751, 4-22-69, Cl. 172-634.
Kasten, Walter, to Bendix Corporation, The. Fuel transfer device having water sensing shutoff valve. 3,434,486, 3-25-69, Cl. 137-67.
Kasten, Walter, to Bendix Corporation, The. Unitary water separator and fuel monitoring element. 3,460,676, 8-12-69, Cl. 210-96.
Kaster, Robert L., to Minnesota, University of, the Regents of the. Pivoting disc heart valve. 3,476,143, 11-4-69, Cl. 137-527.8
Kasting, Howard E.; and Romaine, Benjamin H., to Union Carbide Corporation. Sift-proof industrial bag. 3,439,864, 4-22-69, Cl. 229-59.
Kastner, Jacob; and Halverson, Steven. System for tracking air currents. 3,448,613, 6-10-69, Cl. 73-170.
Kastner, Rene Louis, to Societe d'Exploitation des Roulements Roultex. Plummer-blocks for the cylinders of rolling-mills. 3,476,453, 11-4-69, Cl. 308-174.

Kastning, Ernst-Guenther; and Naarmann, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for preparing rubbery 1,3-diene polymers by polymerizing 1,3-dienes in the presence of a preformed polymer. 3,431,227, 3-4-69, Cl. 260-29.7

Kastning, Ernst-Guenther: *See*—
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Weber, Heinz; and Willersinn, Herbert,3,457,204.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert,3,472,799.
Daumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert,3,476,831.
Dumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert,3,458,599.
Naarmann, Herbert; and Kastning, Ernst-Guenther,3,476,830.
Naarmann, Herbert; Hofmann, Hermann Pankraz; and Kastning, Ernst-Guenther,3,454,538.
Naarmann, Herbert; Stabenow, Joachim; and Kastning, Ernst-Guenther,3,481,895.

Kastning, William H., to Western Electric Company, Incorporated. Test circuit for evaluating magnetic memory devices. 3,440,526, 4-22-69, Cl. 324-34.

Kastning, William H., to Western Electric Company, Incorporated. Test circuit for evaluating magnetic memory devices. 3,443,210, 5-6-69, Cl. 324-34.

Kastor, Ross L., to Shell Oil Company. Process for determining the injection profile of a cased well. 3,451,264, 6-24-69, Cl. 73-155.

Kastovsky, Jiri: *See*—
Matejka, Jaroslav; and Kastovsky, Jiri,3,436,527.

Kasuga, Jiro; and Shwgeyama, Shogo, to Trio Corporation. Automatic frequency sweep apparatus. 3,467,872, 9-16-69, Cl. 325-471.

Kasuga, Noboru: *See*—
Hanyu, Susumu; and Kasuga, Noboru,3,426,712.

Kasuga, Noboru, to Janome Sewing Machine Co., Ltd. Automatic feed changing device in zigzag sewing machine. 3,455,258, 7-15-69, Cl. 112-210.

Kasza, Louis, to Ohio State University, The. Melanoma cell line of canine origin, its propagation and use, and vaccines derived therefrom. 3,432,595, 3-11-69, Cl. 424-89.

Kasztreiner, Endre; Borsi, Jozsef; Vargha, Laszlo; Boris, Meszaros, Erika; and Szilagyi, Geza, to Egyesult Gyogyszer- es Tapszergyar. Pharmacologically active new substituted benzamides. 3,432,549, 3-11-69, Cl. 260-559.

Kaszynski, Albert Z.; and Phelps, Robert E., to Sperry Rand Corporation. Digital-to-analog converter. 3,422,423, 1-14-69, Cl. 340-347.

Katagata, Zenji: *See*—
Fujii, Mitsuo; Kumagai, Chitoku; Katagata, Zenji; and Inoue, Seiichi,3,475,591.

Katagiri, Hiroshi; and Konno, Tsuyoshi, to Matsushita Electric Industrial Co., Ltd. Sinusoidal time base systems. 3,439,220, 4-15-69, Cl. 315-26.

Katagiri, Hiroshi: *See*—
Sezaki, Nobuhiko; Katagiri, Hiroshi; and Kaneko, Toyohisa,3,439,213.

Katagiri, Nobuyuki: *See*—
Sugiura, Shotaro; Tasaka, Fumio; Ueno, Haruo; Kono, Minoru; Katagiri, Nobuyuki; and Sakinaga, Nobumasa,3,459,726.

Katagiri, Shinjiro; and Minamikawa, Yoshihisa, to Hitachi, Ltd. Device for exchanging electron sources in electrical discharge devices. 3,476,972, 11-4-69, Cl. 313-237.

Katagiri, Yoshiharu: *See*—
Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu,3,448,316.

Katagiri, Yushi: *See*—
Kawashima, Masao; and Katagiri, Yushi,3,428,886.

Katahira, Toshiaki: *See*—
Izumi, Hiroshi; Katahira, Toshiaki; and Furuhashi, Michio,3,472,950.

Kataoka, Hirohisa: *See*—
Katsumura, Tatsuo; Kataoka, Hirohisa; Mizuno, Yutaka; Tsutsui, Tsutomu; and Nishihara, Tadashi,3,423,482.

Kataoka, Tadashi: *See*—
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira,3,458,987.

Katarskas, Zenonas: *See*—
Ulbing, Otmar M.; and Katarskas, Zenonas,3,442,177.

Katavolos, William; and Evans, Seymour, to Marvin Electric Manufacturing Co. Lighting device. 3,427,446, 2-11-69, Cl. 240-78.

Katayama, Haruo, to Sanwa Seiki Mfg., Co., Ltd. Air brake system for automobiles. 3,428,367, 2-18-69, Cl. 303-6.

Katayama, Shizuo: *See*—
Imamiya, Hitoshi; Katayama, Shizuo; Matsukawa, Hiroharu; Kobayashi, Teruo; and Ishige, Sadao,3,463,655.
Mishima, Shizuo; Katayama, Shizuo; and Imamiya, Hitoshi,3,447,945.

Katchalsky, Aharon: *See*—
Asscher, Meir; Vofsi, David; and Katchalsky, Aharon,3,441,614.
Bloch, Rene; Katchalsky, Aharon; Kedem, Ora; and Vofsi, David,3,450,630.
Bloch, Rene; Vofsi, David; Kedem, Ora; and Katchalsky, Aharon,3,450,631.
Gassner, Saul Alexander; Hellinger, Esther; Katchalsky, Aharon; and Vofsi, David,3,420,790.

Katchka, Jay R.: *See*—
Jackson, Wilbur F.; Katchka, Jay R.; and McAllister, Donald,3,453,062.

Katchka, Jay R.; and Dykzeul, Theodore J., to Robertshaw Controls Company. Diaphragm valve control. 3,447,775, 6-3-69, Cl. 251-45.

Katchka, Jay R.; McAllister, Donald; and Scharer, Edward B., to Robertshaw Controls Company. Dual range pressure regulator. 3,454,038, 7-8-69, Cl. 137-489.

Katchman, Arthur: *See*—
Holoch, Klaus E.; Katchman, Arthur; and Shufelt, Rainey A.,3,450,670.

Katchman, Arthur, to General Electric Company. Dielectric liquid epoxide scavenger. 3,423,655, 1-21-69, Cl. 317-259.

Katchman, Arthur, to General Electric Company. Electrical capacitor and dielectric material therefor. 3,424,957, 1-28-69, Cl. 317-259.

Kategian, Nick C., to Brandell Products Corporation. Display devices. 3,469,334, 9-30-69, Cl. 40-106.25

Kateman, Gerrit; von Morgen, Kurt; and Wijenberg, Joannes B. G., to Stamicarbon N.V. Process and apparatus for the automatic determinat- ion and/or control or the hydroxide: nitrite ratio in nitrite solutions. 3,421,855, 1-14-69, Cl. 23-230.

Kater, John A. R., to Beckman Instruments, Inc. Scalp contacting bioelectrode. 3,469,577, 9-30-69, Cl. 128-2.1

Kater, Karl-Heinz; and Wodtke, Hans, to Theodor Wuppermann Gesellschaft mit Beschrankter Haftung. Tool for rounding edges of strip material. 3,456,473, 7-22-69, Cl. 72-199.

Kates, Richard, to Federal Steel Corporation. Pivoted spit and firebox assembly for barbecue grills. 3,442,201, 5-6-69, Cl. 99-421.

Kath, Ronald E.: *See*—
Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H.,3,480,795.

Katko, Daniel A., to Lombard Corporation. Hydraulic cylinder arrangement. 3,477,229, 11-11-69, Cl. 60-52.

Kato, Haruhiro, to Dai Nippon Toryo Kabushiki Kaisha, and Mitsubishi Kasei Kogyo Kabushiki Kaisha. Plural coated pellet form products and process of making. 3,475,154, 10-28-69, Cl. 71-64.

Kato, Harunobu: *See*—
Obuchi, Kazuo; and Kato, Harunobu,3,451,376.

Kato, Haruto P., to Uniroyal, Inc. Spinning apparatus with a spinneret and an elongated chamber with means to perform retarded cooling. 3,447,202, 6-3-69, Cl. 18-8.

Kato, Hiromasa: *See*—
Uzu, Keizo; Takahira, Hiroshi; Kato, Hiromasa; Sugiyama, Noriyuki; Haneda, Tomotsune; and Ishii, Sumihiro,3,424,743.

Kato, Joji: *See*—
Chibata, Ichiro; Kakimoto, Toshio; and Kato, Joji,3,458,400.

Kato, Jumpei, to Royal Products Incorporated. Glow plug connector. 3,435,404, 3-25-69, Cl. 339-26.

Kato, Kaoru; and Ogawa, Shigeyoshi, to Dalkin Kogyo Kabushiki Kaisha. Method of manufacturing a fluorination catalyst. 3,431,067, 3-4-69, Cl. 23-88.

Kato, Kaoru; and Ogawa, Shigeyoshi, to Daikin Kogyo Kabushiki Kaisha. Fluorination catalyst and process for manufacturing the same. 3,455,840, 7-15-69, Cl. 252-441.

Kato, Katsuhiro: *See*—
Ito, Giichi; Takamura, Masao; Kato, Katsuhiro; and Kikuchi, Hisaei,3,431,519.
Takamura, Masao; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisahide; and Mitsuhashi, Sadayuki,3,487,344.
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki,3,464,039.

Kato, Kenzi, to Janome Sewing Machine Co., Ltd. Precision speed control circuit for alternating current motor. 3,477,003, 11-4-69, Cl. 318-227.

Kato, Kichiro; Fujita, Hiroshi; Toyama, Teruhiko; Kiyohisa, Yukio; Yoshimoto, Takeo; and Yanami, Tetsuo, to Mitsui Kagaku Kogyo Kabushiki Kaisha. Dihalophenyl-*p*-nitrophenyl ethers as herbicides. 3,454,392, 7-8-69, Cl. 71-124.

Kato, Kin: *See*—
Nakamura, Hiroshi; Manmo, Shiro; Ishizaki, Yasutaro; Saito, Tokuji; and Kato, Kin,3,473,288.

Kato, Kirotetu: *See*—
Nishio, Fumihiko; Nishio, Daijiro; Watarai, Syo; Hayakawa, Yoshihide; Kato, Kirotetu; and Udea, Hirozo,3,445,231.

Kato, Koji: *See*—
Vallee, John A.; and Kato, Koji,3,448,445.

Kato, Masaaki: *See*—
Mihara, Kzauhiko; and Kato, Masaaki,3,453,201.

Kato, Masao: *See—*
Mitani, Tetsuo; and Kato, Masao,3,434,547.
Kato, Masao. Electric motors for toys. 3,445,692, 5-20-69, Cl. 310-42.
Kato, Masayuki: *See—*
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo,3,444,186.
Kato, Masumi, to Nippon Denso Company Limited. Windshield wiper apparatus. 3,422,480, 1-21-69, Cl. 15-250.21
Kato, Naomichi: *See—*
Deguchi, Yoshio; Nojima, Hiroshi; and Kato, Naomichi,3,454,595.
Kato, Shigeru: *See—*
Matsushima, Mitsuo; Akino, Tadaharu; and Kato, Shigeru,3,449,704.
Kato, Shigeyoshi. Calculator. 3,473,732, 10-21-69, Cl. 235-79.5
Kato, Tadashi: *See—*
Kunitake, Tatsuro; and Kato, Tadashi,3,431,101.
Kato, Takaaki, to Nippon Denso Kabushiki Kaisha. Automatic constant speed maintaining means for an automobile. 3,476,205, 11-4-69, Cl. 180-105.
Kato, Takahisa: *See—*
Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Shoshin; Kato, Takahisa; and Nagai, Masayuki,3,457,247.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi, to Sumitomo Chemical Company, Ltd. Esters of chrysanthemum monocarboxylic acid and chrysanthemum-dicarboxylic acid monomethl ester with N-hydroxy methyl maleimides. 3,428,651, 2-18-69, Cl. 260-326.3
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi, to Sumitomo Chemical Company, Ltd.Glutarimidomethyl and β-methylglutarimidomethyl esters of chrysanthemum carboxylic acids. 3,440,245, 4-22-69, Cl. 260-281.
Kato, Tokue: *See—*
Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao,3,434,277.
Kato, Toshihiro: *See—*
Kuroki, Motoharu; and Kato, Toshihiro;,3,481,046.
Kato, Toshio: *See—*
Ishida, Shin'ichi; Kato, Toshio; Kurihara, Masakazu; Takahashi, Yasunobu; and Fukuda, Hiromichi,3,462,394.
Kato, Tsuneyuki; Aoshima, Atsushi; Kubota, Yasuhiro; and Matsumura, Kenji, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the catalytic oxidation of propylene. 3,446,840, 5-27-69, Cl. 260-533.
Kato, Tsuneyuki: *See—*
Yomiyama, Akira; Kato, Tsuneyuki; Aoshima, Atsushi; and Kawanishi, Tokuichiro,3,433,831.
Kato, Tsutomu, 1/3 to Daiichi Tanso Kogyo Kabushiki Kaisha, and 1/3 to Tamachi Denki Kabushiki Kaisha. Method of preparing an agent for preventing contamination of air by carbon monoxide. 3,436,356, 4-1-69, Cl. 252-450.
Kato, Yoshiaki: *See—*
Tanaka, Kazuo; Yoshida, Hirohiko; Kato, Yoshiaki; and Ueda, Hiromi,3,462,939.
Kato, Yoshimi: *See—*
Kondo, Takeichi; Kato, Yoshimi; and Muramatsu, Yasunori,3,482,197.
Katoh, Shoichi: *See—*
Kawahata, Masao; Yokota, Kozou; Fukase, Yukishige; and Katoh, Shoichi,3,420,660.
Katori, Kaichiro; and Kamiyama, Shinichi, to Fujitsu Limited. Method of manufacture of glass-sealed semiconductor device. 3,442,634, 5-6-69, Cl. 65-42.
Katrak Vehicle Company: *See—*
Schoonover, Richard H. A., 3,434,739.
Schoonover, Richard H. A., 3,443,654.
Schoonover, Richard H. A., 3,443,844.
Schoonover, Richard H. A., 3,446,302.
Schoonover, Richard H. A., 3,447,620.
Schoonover, Richard H. A., 3,447,621.
Katsanis, David J., to United States of America, Army. Firing control system for laser-guided projectiles. 3,485,461, 12-23-69, Cl. 244-3.15
Katscher, Erich: *See—*
Hoffmann, Manfred; Wendelin, Roland; and Katscher, Erich,3,467,897.
Katsevich, Leonid Savich: *See—*
Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Volokhonsky, Lev Avramovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Scherbakov, Konstantin Alexandrovich; and Katsevich, Leonid Savich,3,483,917.
Katsobashvili, Jakov Rafailovich; and Belova, Galina Mikhailovna, to Institute Neftekhimicheskogo Sintezi imeni A.V. Topchieva. Method for reactivation of oxide catalysts. 3,422,031, 1-14-69, Cl. 252-417.
Katsoulis, Emanuel G.: *See—*
Chodosh, Stewart M.; and Katsoulis, Emanuel G.,3,479,225.
Katsoyannis, Panayotis; and Tometsko, Andrew M., to United States of America, Atomic Energy Commission. Process for joining the A and B chains of insulin. 3,420,810, 1-7-69, Cl. 260-112.7
Katstra, Richard D.: *See—*
Mausner, Marvin; Katstra, Richard D.; and Spiegelman, Gerald,3,458,449.
Katsuda, Yoshio, to Dainihon Jochugiku Company, Limited. Apparatus for vaporizing chemicals and perfumes by heating. 3,431,393, 3-4-69, Cl. 219-274.
Katsuki, Kenichiro; Kawakami, Hiroshi; and Tatsumi, Juichi, to Societe d'Electronique et d'Automatisme. Method of manufacturing a coreless rotor. 3,470,289, 9-30-69, Cl. 264-229.
Katsumura, Tatsuo; Kataoka, Hirohisa; Mizuno, Yutaka; Tsutsui, Tsutomu; and Nishihara, Tadashi, to Kasei, Nitto. Synthetic fibers containing organotin itaconate polymers. 3,423,482, 1-21-69, Cl. 260-857.
Katsumura, Tatsuo; Kawakami, Yohei; and Tsuji, Hiroshi, to Nitto Chemical Industrial Co., Ltd. Bis(trialkyltin) oxypolethylene oxy compounds. 3,441,580, 4-29-69, Cl. 260-429.7
Katsunuma, Nobuhiko, to Chugai Seiyaku Kabushiki Kaisha. Method and a preparation for the clinical diagnosis. 3,458,403, 7-29-69, Cl. 195-103.5
Katsura, Kanichiro: *See—*
Fujita, Makoto; and Katsura, Kanichiro,3,469,829.
Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Shoshin; Kato, Takahisa; and Nagai, Masayuki, to Daikin Kogyo Kabushiki Kaisha. Fluorocarbon compounds and polymers thereof. 3,457,247, 7-22-69, Cl. 260-89.5
Katsuta, Kihei; Shimasaki, Yoshikatsu; and Miki, Ikuo, to Mitsubishi Jukogyo Kabushiki Kaisha. Apparatus for separating fluids by centrifugal and gravitational forces. 3,452,870, 7-1-69, Cl. 210-94.
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi, to Mitsubishi Jukogyo Kabushiki Kaisha, and Kabushiki Kaisha Imamura Seisakusho. Separating apparatus for dispersed matter. 3,426,904, 2-11-69, Cl. 210-259.
Katsuyama, Akihiko: *See—*
Fukuda, Jun-Ichi; Tashiro, Kijuro; Yamamoto, Akira; and Katsuyama, Akihiko,3,457,244.
Katsuyama, Shigeo: *See—*
Murao, Taiichi; Katsuyama, Shigeo; and Sasaki, Toshio,3,443,002.
Katsuyama, Yoshihisa, to Nippon Kogaku K.K. Mechanism for automatically adjusting the film Sensitivity setting for an exposure meter built into a camera. 3,461,782, 8-19-69, Cl. 95-10.
Kattchee, Nicholas, to Physics International Company. Piezoelectric control valve. 3,465,732, 9-9-69, Cl. 123-32.
Kattus, James R.; and Morrison, Joseph D., to Southern Research Institute. Precipitation hardened ferrous alloy containing copper. 3,472,706, 10-14-69, Cl. 148-35.
Katuschenko, Walter; and Keinath, Rudolph, to General Electric Company. Television sweep transformer. 3,483,496, 12-9-69, Cl. 336-84.
Katva, Ilmari, to Broen Armatur I/S. Mixing valve. 3,459,223, 8-5-69, Cl. 137-625.17
Katz, Bernard: *See—*
Duva, Robert; and Katz, Bernard,3,440,151.
Katz, Friedrich J.; Pfeiffer, Gene F.; and Sorenson, Charles E., to Hahn, Inc. Low volume spray system having nozzle orifice configuration for producing equal size droplets. 3,443,756, 5-13-69, Cl. 239-214.25
Katz, Harry: *See—*
Schneider, Sidney; and Katz, Harry,3,460,252.
Katz, Helmut: *See—*
Eichin, Werner; and Katz, Helmut,3,466,494.
Schmidt, Walter; Vitzthum, Dieter; Hoffmann, Herbert; and Katz, Helmut,3,458,913.
Katz, Helmut, to Siemens Aktiengesellschaft. Electron beam production system for electronic discharge vessels. 3,453,480, 7-1-69, Cl. 313-337.
Katz, Helmut; and Meyerer, Paul, to Siemens Aktiengesellschaft. Electron gun for electron tubes in cathode heater device. 3,474,282, 10-21-69, Cl. 313-346.
Katz, Jacob M.: *See—*
Taub, Abraham, 3,487,021.
Katz, Jacob M., to United States Borax & Chemical Corporation. Recess cabinets. 3,429,630, 2-25-69, Cl. 312-242.
Katz, Jacob M. Spollage collecting dispensers for powders and the like. 3,445,040, 5-20-69, Cl. 222-108.
Katz, Klaus: *See—*
Forster, Hans-Joachim M.; and Katz, Klaus,3,444,786.
Forster, Hans-Joachim M.; and Katz, Klaus,3,476,203.
Katz, Klaus; and von Koch, Arwed, to Daimler-Benz Aktiengesellschaft. Servo-steering mechanism for motor vehicles. 3,444,785, 5-20-69, Cl. 91-434.
Katz, Leonhard, to Astro Dynamics, Inc. Switching relay motor apparatus including an oscillator fed winding and an A.C. fed winding. 3,471,761, 10-7-69, Cl. 318-138.
Katz, Leonhard, to Astro Dynamics, Inc. Heat-exchanging fluid circulating apparatus. 3,477,502, 11-11-69, Cl. 165-122.

Katz, Leonhard, to Astro Dynamics, Inc. Method of and apparatus for cooling heat- radiating articles and the like. 3,487,328, 12-30-69, Cl. 331-94.5

Katz, Leon, to GAF Corporation. Poly-α olefins coated with lactams or lactones and methods for producing same. 3,449,154, 6-10-69, Cl. 117-93.1

Katz, Louis B. Apparatus for bonding a brake lining to a brake shoe. 3,434,412, 3-25-69, Cl. 100-93.

Katz, Morris H., to Pillsbury Company, The. Edible dry mix composition for producing an aerated food product. 3,434,848, 3-25-69, Cl. 99-139.

Katz, Morris H.; and Henry, William F., to Pillsbury Company, The. Method and apparatus for ascertaining the characteristics of food products. 3,463,014, 8-26-69, Cl. 73-432.

Katz, Norman H.; and Binstock, Martin H., to North American Rockwell Corporation. Composite thermoelectric assembly having preformed intermediate layers of graded composition. 3,432,365, 3-11-69, Cl. 136-237.

Katz, Peter: *See—*
Schainholz, Herbert; and Katz, Peter,3,460,154.

Katz, Saul N.: *See—*
Kan, Billy; and Katz, Saul N.,3,424,589.

Katz, Sidney; and Cathers, George I., to United States of America, Atomic Energy Commission. Method of separating neptunium and uranium values. 3,451,790, 6-24-69, Cl. 23-326.

Katz, Silas: *See—*
Flester, Eugene G., Jr.; and Katz, Silas,3,465,781.

Katz, Silas, to United States of America, Army. Fluid analog circuits. 3,474,959, 10-28-69, Cl. 235-200.
Trask, Roland Pierce, II; Katz, Silas; and Walker, M. Lucius, Jr.,3,478,764.

Katz, Solomon; and Levitt, Semond, to Strick Corporation. Container handling system and devices. 3,473,678, 10-21-69, Cl. 214-38.

Katz, William E.: *See—*
McRae, Wayne A.; and Katz, William E.,3,440,159.

Katze, Melvin F., to Dow Chemical Company, The. Pressure reducing valve. 3,439,713, 4-22-69, Cl. 138-43.

Katzef, Irving B.; and Abitboul, Georges D., to Audio Magnetics Corporation. Cassette tape winding indicator means. 3,423,038, 1-21-69, Cl. 242-55.13

Katzen, Raphael, Associates: *See—*
Katzen, Raphael; Diebold, Vincent B.; and Moon, George D., Jr., 3,445,345.

Katzen, Raphael; Diebold, Vincent B.; and Moon, George D., Jr., to Katzen, Raphael, Associates. Extractive distillation of C_1 to C_3 alcohols and subsequent distillation of purge streams. 3,445,345, 5-20-69, Cl. 203-25.

Katzer, Melvin F., to Dow Chemical Company, The. Controlled dissolution of flocculants. 3,435,618, 4-1-69, Cl. 61-1.

Katzer, Melvin F., to Dow Chemical Company, The. Dissolving solids in solvents. 3,468,322, 9-23-69, Cl. 137-1.

Katzer, Melvin F.; and Pye, David J., to Dow Chemical Company, The. River management. 3,461,674, 8-19-69, Cl. 61-2.

Katzer, Melvin F.: *See—*
Sewell, Sewood; and Katzer, Melvin F.,3,477,467.

Katzin, Martin. Polarization diversity system. 3,430,156, 2-25-69, Cl. 330-43.

Katzman, Frederick, to Reynolds Metals Company. Mechanical joint means. 3,429,088, 2-25-69, Cl. 52-463.

Katzman, Lawrence; and Briggin, Edward, to Kaz Manufacturing Co., Inc. Humidifier. 3,420,509, 1-7-69, Cl. 261-142.

Katzman, Lawrence; and Briggin, Edward, to Kaz Manufacturing Co., Inc. Bottle warmer attachment for vaporizer. 3,480,001, 11-25-69, Cl. 126-261.

Katzmarek, Albert G.: *See—*
Bostrom, Harry H.; and Katzmarek, Albert G.,3,436,082.

Kauder, Otto S., to Argus Chemical Corporation. Halogen-containing resin compositions containing crystalline cyclic organic compounds and stabilizer combinations employing the same. 3,458,472, 7-29-69, Cl. 260-45.75

Kauder, Otto S., to Argus Chemical Corporation. Rigid polyvinyl chloride resins having enhanced resistance to deterioration due to the presence of an organotin unsaturated half ester and an unhindered phenol. 3,483,159, 12-9-69, Cl. 260-45.75

Kauder, Otto S.; Leistner, William E.; and Hecker, Arthur C., to Argus Chemical Corporation. Polyvinyl chloride and olefin polymer compositions having improved resistance to deterioration comprising an organic phosphite ester having at least one aromatic polycarbocyclic group. 3,476,699, 11-4-69, Cl. 260-23.

Kauders, Herbert J., to General Electric Company. Yttrium vanadate europium phosphor preparation by precipitation. 3,479,296, 11-18-69, Cl. 252-301.4

Kauer, Erhard: *See—*
Ganser, Hans Gunther; Kauer, Erhard; and Lydtin, Hans Jurgen,3,458,270.

Kauer, James C., to Du Pont de Nemours, E. I., and Company. Pharmaceutical compositions and methods utilizing bicyclo[2.2.2]octane-1-amines and bicyclo[2.2.2] octane-1-methylamines. 3,474,174, 10-21-69, Cl. 424-325.

Kaufer, Helmut, to Agfa-Gevaert Akiengesellschaft. Offset printing machine with wiping sheet for removing ink from blanket cylinder. 3,463,082, 8-26-69, Cl. 101-144.

Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Optical system having at least two lenticular screens. 3,447,438, 6-3-69, Cl. 95-15.

Kaufer, Helmut; Burger, Erich; and Huber, Hans-Peter, to Agfa Aktiengesellschaft. Method for forming an image in a magnetizable ink layer. 3,472,695, 10-14-69, Cl. 117-238.

Kauffman, Floyd L.: *See—*
Urbain, Walter M.; Shank, Joseph L.; and Kauffman, Floyd L.,3,483,005.

Kauffman, Harry D., to Ohio Crankshaft Company, The. Voltage regulator for induction heating apparatus. 3,432,739, 3-11-69, Cl. 321-18.

Kauffman, Harry D., to Park-Ohio Industries, Inc. Ground detector. 3,433,918, 3-18-69, Cl. 219-10.77

Kauffman, Harry G.; and Jones, Hallet D. Compressor valve. 3,428,081, 2-18-69, Cl. 137-516.21

Kauffman, Harry G.; Sloan, Thomas F.; and Angle, Henry W., to Frick Company. Filter and heat exchanger. 3,482,699, 12-9-69, Cl. 210-184.

Kauffman, Jack: *See—*
Breitsprecher, Charles O.; and Kauffman, Jack,3,474,826.

Kauffman, John Edward, to Jade Corporation, The. Method of packaging integrated circuits. 3,436,810, 4-8-69, Cl. 29-577.

Kauffman, John E., to Texas Instruments, Incorporated. Method for fabricating semiconductor package and resulting article of manufacture. 3,484,533, 12-16-69, Cl. 174-52.

Kauffman, Melvin R., to General Electric Company. Switch mechanism for cabinet. 3,428,766, 2-18-69, Cl. 200-61.69

Kauffman, Melvin R.; and Pattison, Wesley S., to General Electric Company. Front opening dishwasher with improved rack assembly. 3,466,109, 9-9-69, Cl. 312-338.

Kauffman, Melvin R.; and Pattison, Wesley S., to General Electric Company. Front opening dishwasher with improved rack assembly. 3,486,804, 12-30-69, Cl. 312-338.

Kauffman, Robert C. Optical photographic printing apparatus. 3,432,233, 3-11-69, Cl. 355-72.

Kaufman, Arnold S.: *See—*
Sweet, Albert; and Kaufman, Arnold S.,3,457,850.

Kaufman, Curt E., to Ro-Search, Incorporated. Method of manufacture of footwear. 3,473,178, 10-21-69, Cl. 12-142.

Kaufman, Edwin N., to Lockheed Aircraft Corporation. Pressure transducer utilizing semiconductor beam. 3,461,416, 8-12-69, Cl. 338-4.

Kaufman, Hans J., to Stakmore Co., Inc. Folding chair with horizontal stacking. 3,451,718, 6-24-69, Cl. 297-239.

Kaufman, Harold A., to Mobil Oil Corporation. Process for producing certain amino substituted nitro pyridines. 3,470,172, 9-30-69, Cl. 260-247.5

Kaufman, Harold A., to Mobil Oil Corporation. Aromatic glyoxynitrile oximino carbamates. 3,483,246, 12-9-69, Cl. 260-465.

Kaufman, Harold A.; Napier, Roger P.; and Gough, Stanley T. D., to Mobil Oil Corporation. Fungicidally active organoglyoxylonitrile oximino phosphates and phosphonates. 3,469,004, 9-23-69, Cl. 424-202.

Kaufman, Harold A.: *See—*
Melton, Thomas Mason; and Kaufman, Harold A.,3,428,655.

Kaufman, Harold B., Jr., to DCA Food Industries, Inc. Cooling apparatus for bakery products. 3,443,505, 5-13-69, Cl. 98-33.

Kaufman, Harold B., Jr.: *See—*
Fowler, Roscoe T.; and Kaufman, Harold B., Jr.,3,450,070.
Marsan, David R.; and Kaufman, Harold B.,3,483,868.

Kaufman, Harold R.: *See—*
Reader, Paul D.; Kaufman, Harold R.; and Kerslake, William R.,3,447,015.

Kaufman, Irving, to TRW Inc. Ferrimagnetic microwave generator or amplifier. 3,487,336, 12-30-69, Cl. 332-7.

Kaufman, Irving: *See—*
Oltman, Henry G., Jr.; and Kaufman, Irving,3,453,456.

Kaufman, Jack William. Abrasive-like tool device. 3,468,079, 9-23-69, Cl. 51-378.

Kaufman, Marvin L., to Mobay Chemical Company. Polyurethanes prepared from the cyclization product of a polyglycidyl carbamate. 3,484,413, 12-16-69, Cl. 260-77.5

Kaufman, Myron N.; and Lindner, Melvin, to United States of America, mesne. Beam forming technique and implementation for sonar simulation. 3,479,439, 11-18-69, Cl. 35-10.4

Kaufman, Norman C., to Thompson, Earl A., Manufacturing Co. Measuring device. 3,439,526, 4-22-69, Cl. 73-37.9

Kaufman, Robert R. Concrete mixing control apparatus for concrete mixing trucks. 3,460,812, 8-12-69, Cl. 259-177.

Kaufman, Samuel. Garment hem construction. 3,478,366, 11-18-69, Cl. 2-74.

Kaufman, Samuel; and Conrad, Herbert A., to Sier-Bath Gear Co., Inc. Flexible gear coupling. 3,462,971, 8-26-69, Cl. 64-9.

Kaufman, Stephen; and Nicolson, Richard E., to Union Carbide Corporation. Process for continuous alkylation of arylhydroxides using ion exchange resins. 3,422,157, 1-14-69, Cl. 260-624.

Kaufman, Vernon R.: *See—*
Heth, Sherman C.; Kaufman, Vernon R.; and Munson, Lyle G.,3,484,963.
Kaufman, Vernon R., to Jacobsen Manufacturing Company. Engine mounting for a rotary lawn mower. 3,420,042, 1-7-69, Cl. 56-25.4
Kaufman, William A.; and Kirsten, James O.F., to Doelger & Kirsten, Inc. Positive release overload clutch for a shear. 3,481,235, 12-2-69, Cl. 83-58.
Kaufman, William A.: *See—*
Bjorksten, Johan A.; and Kaufman, William A.,3,467,999.
Kaufmann, Albert R., to Whittaker Corporation, mesne. Method of producing dispersion hardened metals. 3,440,042, 4-22-69, Cl. 75-206.
Kaufmann, Albert R., to Whittaker Corporation. Method and apparatus for edge-bonding metallic sheets. 3,477,114, 11-11-69, Cl. 29-470.1
Kaufmann, Curt, to Automatic Druckmaschinenfabrik Dr. W. Hinniger und Sohne. Rotary printing press for changeable formats. 3,426,680, 2-11-69, Cl. 101-181.
Kaufmann, Frank H., to Steel Heddle Manufacturing Company. Loom harness. 3,428,094, 2-18-69, Cl. 139-91.
Kaufmann, Frank H.; and Kramer, Charles F., to Steel Heddle Manufacturing Company. Loom harness. 3,470,920, 10-7-69, Cl. 139-91.
Kaufmann, Harold: *See—*
Achler, Howard S.; and Kaufmann, Harold,3,438,232.
Achler, Howard S.; and Kaufmann, Harold,3,478,555.
Achler, Howard S.; and Kaufmann, Harold,3,485,122.
Kaufmann, John J., Jr.: *See—*
Russell, James S.; and Kaufmann, John J., Jr.,3,451,439.
Kaufmann, Robert H.; Richard, Donald; and Wily, John L., to North American Rockwell Corporation. Strand carrier for braiding machines. 3,425,315, 2-4-69, Cl. 87-22.
Kaufmann Tool and Engineering Corporation: *See—*
Achler, Howard S.; and Kaufmann, Harold, 3,438,232.
Achler, Howard S.; and Kaufmann, Harold, 3,478,555.
Franzene, Robert Donald, 3,454,452.
Kaufmann, William F., Jr., to United States of America, Army. Discardable rotating band. 3,431,815, 3-11-69, Cl. 89-1.
Kaumagraph Company: *See—*
Hochner, Walter L., 3,421,967.
Kaumeyer, Lynn W.: *See—*
Calta, Salvatore A.; Carlson, Harry A.; Granito, Gerry D.; Kaumeyer, Lynn W.; Marcotte, Alphonse U.; and Messina, Benedicto U.,3,447,135.
Kaup, John J., to Felsenthal Instruments, Inc. Method of making an illuminated panel. 3,461,551, 8-19-69, Cl. 29-592.
Kaupp, Josef; Klug, Helmut; Mittelberger, Karl Heinz; and Koln, Hans Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of chlorinated polyolefins. 3,467,640, 9-16-69, Cl. 260-88.2
Kaupp, Josef; and Petz, Karl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing hard waxes. 3,481,913, 12-2-69, Cl. 260-89.5
Kaupp, Josef; and Strassberger, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Wax mixtures and process for the production of wax mixtures for fluid water-free polish masses. 3,424,599, 1-28-69, Cl. 106-10.
Kaupp, Norbett H.: *See—*
Eichorn, Roger H.; and Kaupp, Norbett H.,3,424,615.
Eichorn, Roger H.; and Kaupp, Norbett H.,3,484,163.
Kauranen, Herbert A., to Kelvinator, Inc., mesne. Range oven heating control circuit for pyrolytic oven cleaning. 3,474,226, 10-21-69, Cl. 219-413.
Kaus, Tadeusz: *See—*
Unterschuetz, Zdzislaw; Naruszewicz, Eustachy; and Kaus, Tadeusz,3,451,849.
Kautsky, George J.: *See—*
Barusch, Maurice; and Kautsky, George J.,3,468,640.
Kautsky, George J., to Chevron Research Company. Acit-amide pour point depressants. 3,444,082, 5-13-69, Cl. 252-51.5
Kautsky, George J., to Chevron Research Company. Corrosion inhibiting composition containing a neutral amide and C_3-C_8 volatile amine. 3,458,453, 7-29-69, Cl. 252-392.
Kautsky, George J.; and Ballinger, Peter R., to Chevron Research Company. Gasoline composition. 3,443,918, 5-13-69, Cl. 44-63.
Kautter, Carl Theodor; Baumann, Ulrich; and Riemann, Karl Heinz, to Rohm & Haas G.m.b.H. Esterification of acrylic acid. 3,458,561, 7-29-69, Cl. 260-486.
Kautz, George R., to Sylvania Electric Products, Inc. Process for improving mask-screen registration in cathode ray tubes. 3,468,005, 9-23-69, Cl. 29-25.15
Kautz, Glenn E., to Robertson, H. H., Company. Mixing nozzle and dispersion method. 3,462,083, 8-19-69, Cl. 239-400.
Kautz, Murrell F., to Honeywell Inc. Bulb retainer. 3,433,074, 3-18-69, Cl. 73-343.
Kautz, Wilbert G.; and Florence, Donald M., to Aro Corporation, The. Semi-integrated (fluidic) logic system. 3,465,774, 9-9-69, Cl. 137-81.5
Kauzlarich, James J.: *See—*
Maurya. Ramamurat R.; and Kauzlarich, James J.,3,420,428.
Kavadias, Gerry: *See—*
Perron, Yvon G.; and Kavadias, Gerry,3,452,026.
Kavalus, Leonard S.; and Lenarcik, Henryk, to American Flange & Manufacturing Co., Inc. Bottle opener and method. 3,449,987, 6-17-69, Cl. 81-3.3
Kavanagh, Frank W.: *See—*
Stuart, Frank A.; Stewart, William T.; Lowe, Warren; and Kavanagh, Frank W.,3,428,615.
Kavanagh, James A.: *See—*
Clark, George B.; and Kavanagh, James A.,3,430,360.
Kavanaugh, Richard J.; and Burrows, Philip R., to Consolidated Electronics Industries Corporation. Photoelectric chronometric governor. 3,456,178, 7-15-69, Cl. 318-313.
Kavanaugh, Sherman W.: *See—*
Miller, Donald L.; Paul, James H.; and Kavanaugh, Sherman W.,3,469,742.
Kaveggia, Frederick S.; Rossi, Carl J.; and Peart, Leland L., to North American Rockwell Corporation. Method for masking articles with wax by capillary action. 3,438,809, 4-15-69, Cl. 117-212.
Kavthekar, Keshav S., to Ford Motor Company. Flexible backlight flow-through ventilation system. 3,462,189, 8-19-69, Cl. 296-146.
Kavthekar, Keshav S.; and Russell, Richard G., to Ford Motor Company. Attitude compensator device for a motor vehicle speed control system. 3,431,997, 3-11-69, Cl. 180-108.
Kawabata, Minoru, to Kuroda Seiko Co., Ltd. Manifold pedestal. 3,457,943, 7-29-69, Cl. 137-269.
Kawabata, Nariyoshi: *See—*
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto,3,455,847.
Kawabata, Susumu: *See—*
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu,3,457,597.
Kawabata, Yasuro; Maekawa, Haruki; Watanabe, Masamoto; and Tsuda, Yoshizo, to Toyo Rayon Kabushiki Kaisha. Novel aromatic from diamine polyamide containing primary amino group and secondary amino group. 3,485,804, 12-23-69, Cl. 260-78.
Kawabata, Yoshikazu; Uchida, Takeshi; and Suzuki, Masatoshi, to Nippon Gakki Seizo Kabushiki Kaisha. Pickup and circuit for stringed musical instrument. 3,472,943, 10-14-69, Cl. 84-1.15
Kawabe, Naoshi: *See—*
Fukada, Joji; Akatsu, Seiji; Sugahara, Mitsuaki; Kurita, Yoshiji; and Kawabe, Naoshi,3,464,121.
Kawabe, Tsuneo: *See—*
Moroto, Shuzo; and Kawabe, Tsuneo,3,469,443.
Kawabe, Tsuneo; and Kobayashi, Toyoaki, to Aisin Seiki Kabushiki Kaisha. Emergency brake sub-system in automotive brake system. 3,424,281, 1-28-69, Cl. 188-106.
Kawachi, Yoshinori: *See—*
Suzuki, Kensei; Tamura, Shigeo; Kawachi, Yoshinori; and Nagafuji, Naohiro,3,477,550.
Kawada Kogyo Kabushiki Kaisha: *See—*
Kawada, Tadaki, 3,421,167.
Kawada, Tadao, 3,471,881.
Kawada, Shin-ichi, to Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.). Gyrocompass. 3,451,139, 6-24-69, Cl. 33-226.
Kawada, Shin-Ichi, to Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.). Gyrocompass. 3,461,568, 8-19-69, Cl. 33-226.
Kawada, Tadaki, to Kawada Kogyo Kabushiki Kaisha. Center diagonal stays for use in suspension bridges. 3,421,167, 1-14-69, Cl. 14-18.
Kawada, Tadao, to Kawada Kogyo Kabushiki Kaisha. Method of constructing a reinforced suspension bridge by applying pre-stress. 3,471,881, 10-14-69, Cl. 14-18.
Kawaguchi, Hisayuki, to Kabushiki Kaisha Ichikin Kogyosha. Apparatus for measuring the moisture content of a gaseous substance in a high temperature chamber. 3,459,034, 8-5-69, Cl. 73-29.
Kawaguchi, Shinichi, to Riccar Sewing Machine Co., Ltd. Automatic zigzag sewing machine. 3,426,711, 2-11-69, Cl. 112-158.
Kawaguchi, Syojiro: *See—*
Morita, Hiroshi; Fuse, Motoyosi; Iwasaki, Sadaya; Yamagishi, Hisato; Kawaguchi, Syojiro; and Tanigawa, Koichiro,3,476,976.
Kawaguchi, Takuo: *See—*
Matsubayashi, Kanji; and Kawaguchi, Takuo,3,420,796.
Matsubayashi, Kanji; and Kawaguchi, Takuo,3,446,771.
Kawaguchi, Toshihiko; and Inami, Mamoru, to Victor Company of Japan, Limited. Piezoelectro-acoustic stereophonic pick-up. 3,433,487, 3-18-69, Cl. 274-37.
Kawaguchi, Toshiji, to Kabushiki Kaisha Tajima Seisakusho. Tape measure means. 3,482,798, 12-9-69, Cl. 242-107.3
Kawahara, Masao; Ono, Yoshitsugu; and Sakuragi, Johji, to Tokyo Shibaura Electric Co., Ltd. Object identification system. 3,427,613, 2-11-69, Cl. 343-6.5
Kawahara, Takao: *See—*
Oka, Tanehiko; Miki, Ikuo; and Kawahara, Takao,3,421,639.

Kawaharazaki, Yoichi, to Victor Company of Japan, Limited. Pickup arm control mechanism in an automatic record player. 3,433,486, 3-18-69, Cl. 274-15.
Kawahata, Masao; Fukase, Yukishige; and Osozawa, Koichiro, to Nippon Yakin Kogyo Company Limited. Stainless steel having stress corrosion crack resisting property. 3,438,769, 4-15-69, Cl. 75-125.
Kawahata, Masao; Yokota, Kozou; Fukase, Yukishige; and Katoh, Shoichi, to Nippon Yakin Kogyo Company Limited. High strength precipitation hardening heat resisting alloys. 3,420,660, 1-7-69, Cl. 75-122.
Kawai, Eiichi; and Okada, Masashi, to Nippon Denso Kabushiki Kaisha. Head lamp system with photoelectric switching and time delay extinguishing. 3,423,633, 1-21-69, Cl. 315-83.
Kawai, Kaiji; Hisada, Tadashi; and Ishimoto, Nobuo, to Hodogaya Chemical Co., Ltd. Herbicidal composition. 3,425,820, 2-4-69, Cl. 71-106.
Kawai, Katsumi; Suzuki, Gohei; and Kitamura, Yoshito, to Ikegai Tekko Kabushiki Kaisha and Kabushiki Kaisha. Apparatus for automatically processing sections from rotary press. 3,429,240, 2-25-69, Cl. 93-93.
Kawai, Kiyohisa: *See—*
Hirano, Hiroshi; Masuda, Katsutada; Kawai, Kiyohisa; and Shimahara, Noboru,3,465,044.
Kawai, Masahisa: *See—*
Adachi, Kazuo; Kawai, Masahisa; and Hoshikawa, Masakatsu,3,433,790.
Kawai, Tadashi: *See—*
Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi,3,484,866.
Kawai, Teiichi, to Kubota Iron and Machinery Works, Ltd. Pipe joint which can be assembled from inside pipe. 3,432,175, 3-11-69, Cl. 277-104.
Kawaji, Akira, to Nippon Electric Company, Limited. Optical semiconductor device. 3,457,468, 7-22-69, Cl. 317-234.
Kawaji, Akira; and Yonezu, Hiroo, to Nippon Electric Company, Limited. Semiconductor laser devices. 3,470,427, 9-30-69, Cl. 317-234.
Kawakami, Akira: *See—*
Kobayashi, Shinzo; Onishi, Kumaichi; Kawakami, Akira; and Nakamura, Nobuhiro,3,482,049.
Kawakami, Hiroshi: *See—*
Katsuki, Kenichiro; Kawakami, Hiroshi; and Tatsumi, Juichi,3,470,289.
Kawakami, Hirotake: *See—*
Kishi, Kanesuke; Kawakami, Hirotake; and Yamanouchi, Kiyoshi,3,449,523.
Kawakami, Koichiro: *See—*
Watanabe, Jun; Hosoi Susumu; Izawa, Hiroaki; Sawai, Tadashi; and Kawakami, Koichiro,3,428,494.
Kawakami, Masato: *See—*
Mori, Kan; Kawakami, Masato; Sugihara, Yasumi; Kimura, Shoji; Shibata, Tooru; and Kogure, Akira,3,466,272.
Kawakami, Shigemitsu: *See—*
Masai, Shohachi; Kawakami, Shigemitsu; and Okamoto, Tsugio,3,436,296.
Kawakami, Tatsuya; and Aisaka, Noboru, to Industrial Science and Technology, Agency of. Method and device for detecting a break in knitting needles. 3,449,931, 6-17-69, Cl. 66-157.
Kawakami, Toshio: *See—*
Azakami, Shinji; Kawakami, Toshio; and Takemoto, Yoshiharu,3,484,193.
Kawakami, Yohei; Seki, Toshio; and Uenaka, Shigeyoshi, to Nitto Kasei Co., Ltd. Stabilized resin compositions. 3,450,668, 6-17-69, Cl. 260-45.75
Kawakami, Yohei: *See—*
Katsumura, Tatsuo; Kawakami, Yohei; and Tsuji, Hiroshi,3,441,580.
Suzuki, Kozaburo; Seki, Toshio; and Kawakami, Yohei,3,433,763.
Kawam, Antoine, to Grace, W. R., & Co. Wood particle board containing vermiculite and method of making same. 3,459,629, 8-5-69, Cl. 161-163.
Kawamori, Yoshiaki; Matsuura, Masahiko; Saito, Takeshi; and Miyamura, Yoshinobu, to Kyowa Hakko Kogyo Co., Ltd. Process for the fermentative production of D-ribose phosphates. 3,458,401, 7-29-69, Cl. 195-31.
Kawamoto, Frank T.: *See—*
Fleischhacker, Joseph F.; and Kawamoto, Frank T.,3,476,320.
Kawamoto, Ichiro: *See—*
Ito, Shoichi; Kawamoto, Ichiro; and Hara, Yoichiro,3,431,188.
Kawamoto Industrial Co., Ltd.: *See—*
Kuroda, Susumu, 3,449,808.
Kuroda, Susumu, 3,466,717.
Kawamoto, Takuya; Sakoda, Shunsuke; and Hattori, Mitsuhiro, to Sony Corporation. Number display system. 3,449,726, 6-10-69, Cl. 340-172.5
Kawamura, Hiroshi, to Hanken Seisakusho Company, Limited. Folding louvered closures. 3,426,653, 2-11-69, Cl. 98-121.
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro, to Nippon Kokuyu Tetsudo, and Nippon Sharyo Seizo Kabushiki Kaisha. Apparatus for handling track installations. 3,425,359, 2-4-69, Cl. 104-2.
Kawamura, Junji: *See—*
Morita, Yoshio; Watanabe, Takaji; Suzuki, Hisao; and Kawamura, Junji,3,459,573.
Kawamura, Koichi: *See—*
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi,3,461,457.
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi. Device for recording signals for controlling water fountains. 3,461,457, 8-12-69, Cl. 179-100.2
Kawamura, Mitsuo: *See—*
Umemori, Takashi; and Kawamura, Mitsuo,3,483,471.
Kawamura, Saburo; and Takata, Masaru, to Kurashiki Rayon Co., Ltd. Methods of manufacturing polyvinyl alcohol films. 3,471,594, 10-7-69, Cl. 264-210.
Kawamura, Shigeo: *See—*
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi,3,476,777.
Kawamura, Syuzo: *See—*
Shimai, Junichiro; Matsui, Isamu; Kawamura, Syuzo; and Sakai, Syoji,3,476,328.
Kawamura, Yoichi. Pushbutton combination lock. 3,447,347, 6-3-69, Cl. 70-213.
Kawamura, Yoshiko: *See—*
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi,3,461,457.
Kawamura, Yuji: *See—*
Ishida, Seiichi; and Kawamura, Yuji,3,475,155.
Kawanami, Shunpei, to Kabushiki Kaisha Sanko Seisakusho. Dust collector. 3,431,709, 3-11-69, Cl. 55-302.
Kawanishi, Rokuro: *See—*
Ichikawa, Hiroshi; Kawanishi, Rokuro; and Ouchi, Yutaka,3,485,928.
Kawanishi, Tokuichiro: *See—*
Yomiyama, Akira; Kato, Tsuneyuki; Aoshima, Atsushi; and Kawanishi, Tokuichiro,3,433,831.
Kawasaki, Akihiro: *See—*
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto,3,455,847.
Kawasaki, Katsuhiro, to Victor Company of Japan Limited. Device for guiding a disk in a jukebox. 3,425,702, 2-4-69, Cl. 274-10.
Kawasaki Kokuki Kogyo Kabushiki Kaisha: *See—*
Nagatsu, Teisuke, 3,448,946.
Kawasaki Steel Corporation: *See—*
Kishitaka, Hisashi; Shimamura, Yoshihisa; and Takata, Shinya, 3,451,769.
Yoshida, Hiroshi; Okabe, Hideo; Sasaki, Kenji; Nonaka, Hiroshi; Nakagawa, Kichizaemon; and Igarashi, Kiyoyuki, 3,457,984.
Kawasaki, Toshio, to Shionogi & Co., Ltd. Digitalis tetraglycosides and production thereof. 3,420,740, 1-7-69, Cl. 195-2.
Kawase, Shigeru; Kitazawa, Tohru; Ohba, Hiroo; and Sagi, Kojiro, to Kanegafuchi Boseki Kabushiki Kaisha. Method for making porous sheet material. 3,484,273, 12-16-69, Cl. 117-63.
Kawase, Yasutaka. Photoelectric control bimetal-type switch with plural heaters. 3,432,728, 3-11-69, Cl. 317-124.
Kawashima, Kanichi. Method of manufacturing a yarn. 3,478,506, 11-18-69, Cl. 57-160.
Kawashima, Masao: *See—*
Kiyasu, Zen'iti; and Kawashima, Masao,3,484,779.
Kawashima, Masao; and Fudemoto, Isao, to Fujitsu Limited. Automatic timing wave phase control for self-timed regenerative pulse repeaters. 3,424,982, 1-28-69, Cl. 325-13.
Kawashima, Masao; and Fudemoto, Isao, to Fujitsu Limited. DC and high frequency transistor amplifier circuit. 3,452,288, 6-24-69, Cl. 330-17.
Kawashima, Masao; Fudemoto, Isao; and Tominori, Kiyoshi, to Fujitsu Limited. Time wave extracting arrangement in a regenerative repeater of a pulse code modulation transmission system. 3,483,323, 12-9-69, Cl. 178--070
Kawashima, Masao; and Higeta, Tsukumo, to Fujitsu Limited. Pulse code modulation repeaters. 3,437,760, 4-8-69, Cl. 179-15.
Kawashima, Masao; Higeta, Tsukumo; and Kakehi, Gen, to Fujitsu Limited. Variable gain amplifier with constant feedback loop gain. 3,467,913, 9-16-69, Cl. 330-110.
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshino, Maroshi, to Fujitsu Limited. Selective control of bistable circuit with differentiated pulses. 3,441,750, 4-29-69, Cl. 307-238.
Kawashima, Masao; Hinoshita, Shigehiko; and Hoshnio, Maroshi, to Fujitsu Limited. Non-destructive read-out circuit utilizing tunnel diode. 3,437,839, 4-8-69, Cl. 307-238.
Kawashima, Masao; and Katagiri, Yushi, to Fujitsu Limited. Broad frequency band transformer. 3,428,886, 2-18-69, Cl. 333-33.

Kawashima, Masao; Sakai, Masakatsu; and Kobayashi, Toshio, to Fujitsu Limited. Shift register with blocking oscillator stages using overshoot pulses as sequence trigger pulses. 3,432,683, 3-11-69, Cl. 307-221.
Kawashima, Shinichi: *See*—
Yokota, Ryosuke; Fuwa, Shigehiko; Kawashima, Shinichi; and Matsuo, Yutaka,3,456,641.
Kawashima, Yuji: *See*—
Murakami, Masuo; Kawashima, Yuji; and Sano, Kengi,3,482,025.
Kawasumi, Shohachi: *See*—
Nakaguchi, Kohei; Kawasumi, Shohachi; Takagi, Kazumi; Fukuba, Kobo; Hirooka, Masaaki; and Fujita, Toshimichi,3,472,824.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Fujita, Toshimichi,3,478,002.
Kawata, Shojiro: *See*—
Morishita, Zenji; and Kawata, Shojiro,3,448,817.
Kawata, Teruo. Transversely shiftable tape support for enabling multi-track recording or readout. 3,471,653, 10-7-69, Cl. 179-100.2
Kawauchi, Kanau: *See*—
Hamatani, Masaru; and Kawauchi, Kanau,3,457,908.
Kawawa, Takaho, to Nippon Kokan Kabushiki Kaisha. Vacuum degasifying apparatus. 3,468,525, 9-23-69, Cl. 266-34.
Kawawa, Takaho; and Okubo, Masuta, to Nippon Kokan Kabushiki Kaisha. Vacuum degasifying apparatus with electromagnetic stirring means. 3,452,973, 7-1-69, Cl. 266-34.
Kawawada, Akiko, to Fuji Shashin Film Kabushiki Kaisha. Shock absorbing package and display member. 3,467,245, 9-16-69, Cl. 206-46.
Kawchitch, Claude Edward, to Loy, Bros. Proprietary Limited. Container closure. 3,433,380, 3-18-69, Cl. 215-40.
Kawchitch, Claude Edward. Torque transmission shafts. 3,447,392, 6-3-69, Cl. 74-411.
Kawecka, John J.: *See*—
McMaster, Harold A.; Nitschke, Norman C.; and Kawecka, John J.,3,468,645.
Kawecki Berylco Industries, Inc.: *See*—
Morana, Simon J.; and Koshuba, Walter J., 3,460,999.
Kawecki Chemical Company: *See*—
Bielecki, Edwin J.; and Albright, Robert A., 3,437,430.
Eorgan, James E., 3,431,141.
Gustison, Robert A.; Gorczyca, Frank; and Cenerazzo, John A., 3,447,894.
Kawecki, Ralph E., to Southington Manufacturing, Inc. Continuous operation mulling apparatus and method for accurately proportioning foundry sand ingredients. 3,430,929, 3-4-69, Cl. 259-146.
Kawecki, Ralph E., to Southington Manufacturing, Inc. Pneumatically fed continuous operation mulling apparatus and method for accurately proportioning foundry sand ingredients. 3,430,930, 3-4-69, Cl. 259-146.
Kawecki, Zygmunt Tadeusz: *See*—
Jezewski, Mieczyslaw Stanislaw; Kawecki, Zygmunt Tadeusz; Szklarski,Ludger Miroslaw; Krawczyk, Eugeniusz Marian; and Ogorzalek, Jerzy Marian,3,424,976.
Kawenski, Edward M.: *See*—
Mitchell, Donald W.; Murphy, Edwin M.; Kawenski, Edward M.; Nagy, John; and Williams, Roger P.,3,482,637.
Kawiecki, Chester J., to Joslyn Mfg. and Supply Co. Gaseous discharge device with keep-alive electrodes. 3,448,337, 6-3-69, Cl. 315-238.
Kay, Arthur: *See*—
Day, Lawrence; Dobrick, Joseph; and Kay, Arthur,3,434,243.
Kay, Daniel J.; and Knipple, Raymond P., to Hooker Chemical Corporation. Ammonia soluble resin. 3,446,783, 5-27-69, Cl. 260-78.5
Kay, Daniel J.: *See*—
Mellan, Herbert J.; and Kay, Daniel J.,3,450,657.
Kay, Edward L.: *See*—
Bebb, Robert L.; and Kay, Edward L.,3,423,385.
Bebb, Robert L.; and Kay, Edward L.,3,458,591.
Crane, Grant; and Kay, Edward L.,3,456,030.
Kay, Eric; and Sawatzky, Erich, to International Business Machines Corporation. Method of fabricating uniform rare earth iron garnet thin films by sputtering. 3,437,577, 4-8-69, Cl. 204-192.
Kay, Harold D.: *See*—
Reuben, Bertie J.; Kay, Harold D.; Hirshfeld, Julian J.; and Hartgrove, Earl H., Jr.,3,462,297.
Kay, Herbert, to American Metal Climax, Inc. Treatment of nickeliferious oxidic materials for the recovery of nickel values. 3,466,144, 9-9-69, Cl. 23-183.
Kay, Jennie Geddes: *See*—
Geddes, George, Sr.; and Kay, Jennie Geddes,3,428,294.
Kay, Lewis D., to Uarco Incorporated. Data tape with position identification means. 3,451,880, 6-24-69, Cl. 161-6.
Kay Manufacturing Corp.: *See*—
Fischer, Edward M.; and Krakauer, Edwin G., 3,441,064.
Pincus, Seymour; and Krakauer, Edwin G., 3,431,331.
Kay, Murray. Burglar alarm. 3,453,613, 7-1-69, Cl. 340-274.
Kay, Nicholas L., to Union Oil Company of California. Hydrocracking process with preconditioned zeolite catalyst. 3,424,671, 1-28-69, Cl. 208-111.
Kay Seven Co., Ltd.: *See*—
Kuribayashi, Sadatomo; Tayama, Eisei; Mishima, Makio; and Yuzawa, Syuichi, 3,451,379.
Kayaba, Teiji: *See*—
Honda, Kenji; and Kayaba, Teiji,3,423,275.
Kayaian, George. Missile and hand held launcher. 3,421,410, 1-14-69, Cl. 89-1.807
Kayano, Seiichi: *See*—
Ono, Shigeo; Kayano, Seiichi; and Negishi, Ryoichi,3,465,934.
Kayatt, Philip J., to Duro-Test Corporation. Plural lamps for simulating a candle flame. 3,435,286, 3-25-69, Cl. 315-47.
Kayatz, Karl-Heinz, to Fuller, Company. Method and apparatus for blending finely granulated materials. 3,449,842, 6-17-69, Cl. 34-237.
Kaydon Engineering Corporation, The: *See*—
Anderson, Howard W., 3,424,893.
George, Richard F.; and Knotts, Halford L., 3,455,616.
Kaye, Alan R.; and Field, Gordon C., to Northern Electric Company Limited. D.C. restoration circuit. 3,463,940, 8-26-69, Cl. 307-264.
Kaye, Alan R.; and Thompson, Gordon B., to Northern Electric Company Limited. Fader amplifier circuits. 3,472,957, 10-14-69, Cl. 178-7.1
Kaye, Jonathan B.Surveyor's target staff. 3,442,016, 5-6-69, Cl. 33-74.
Kaye, Stephen: *See*—
Garasi, Louis; Kaye, Stephen; and Medved, David B.,3,445,660.
Kaye, Stephen, to Electro-Optical Systems, Inc. Semiconductors photocell detector with variable spectral response. 3,443,102, 5-6-69, Cl. 250-211.
Kaye Thermometer Corporation: *See*—
Rosen, Harvey, 3,472,638.
Kaye, Wilbur I., to Beckman Instruments, Inc. Far ultraviolet nondispersive analyzer utilizing resonant radiant energy from the periphery of the vapor cloud of the source. 3,430,041, 2-25-69, Cl. 250-43.5
Kaye, Wilbur Irving: *See*—
Sundstrom, Karl Erik; Matthews, Kenneth Vincent; and Kaye, Wilbur Irving,3,459,479.
Kayle, William W.: *See*—
Schmidt, Raymond A.; Wilhelm, Frederick A., Jr.; and Kayle, William W.,3,434,111.
Kaylie, Harvey L., to Cutler-Hammer, Inc. R-F attenuation measurement apparatus of the I-F series substitution type, with noise injection for compensation of error due to mixer noise. 3,464,006, 8-26-69, Cl. 324-57.
Kayline Manufacturing, Inc.: *See*—
Benton, Raymond L., 3,486,788.
Kayne, Marvin L., to Candle Corporation of America. Candle lamp. 3,473,014, 10-14-69, Cl. 240-13.
Kayser, John A., to Dana Corporation. Lubrication system for a universal joint. 3,470,711, 10-7-69, Cl. 64-17.
Kayser, John A., to Dana Corporation. Universal joint with elastomeric bearing race mounting and a two part yoke. 3,481,159, 12-2-69, Cl. 64-17.
Kayser, Lutz T. Rocket drive cooling arrangement. 3,462,956, 8-26-69, Cl. 60-258.
Kayser, Richard C.: *See*—
Jackson, William H.; and Kayser, Richard C.,3,429,797.
Kayser-Roth Corporation: *See*—
Homan, Elwood P., 3,478,544.
Weigert, Karl, 3,477,398.
Kaytor, James: *See*—
Bender, Donald E.; Kaytor, James; and Russell, Lowell L.,3,459,165.
Kayuha, Joseph, Jr. Pressure controlled device for producing varying flashing signals. 3,461,424, 8-12-69, Cl. 340-60.
Kaz Manufacturing Co., Inc.: *See*—
Katzman, Lawrence; and Briggin, Edward, 3,420,509.
Katzman, Lawrence; and Briggin, Edward, 3,480,001.
Kazakov, Valentin Mikhailovich: *See*—
Karakashian, Zaven Oganezovich; Lriokhin, Vladimir Ivanovich; and Kazakov, Valentin Mikhailovich,3,420,339.
Karakashian, Zaven Oganezovich; Lariokhin, Vladimir Ivanovich; and Kazakov, Valentin Mikhailovich,3,476,040.
Kazama, Kiyoshi: *See*—
Ogata, Kazuo; Kazama, Kiyoshi; Suzuki, Shozo; and Morimatsu, Yasuo,3,442,868.
Kazama, Seiji: *See*—
Uno, Seiji; Kazama, Seiji; and Uno, Fumio,3,431,243.
Kazamaki, Tomokazu; and Matsumoto, Tohru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Telephoto lens system of low chromatic aberration. 3,467,462, 9-16-69, Cl. 350-2.
Kazamaki, Tomokazu; and Matsumoto, Toru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Photographic objective of large diameter and back focal length comprising six lenses. 3,447,858, 6-3-69, Cl. 350-176.

Kazamaki, Tomokazu; and Takahashi, Yasuo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Large aperture seven lens objective lens system. 3,451,745, 6-24-69, Cl. 350-176.
Kazan, Benjamin, to Xerox Corporation. Multiple copy electrostatic imaging apparatus. 3,437,408, 4-8-69, Cl. 355-3.
Kazan, Benjamin, to Xerox Corporation. Image converter using charged photoemissive layer. 3,440,428, 4-22-69, Cl. 250-213.
Kazan, Benjamin, to Xerox Corporation. Field effect solid state image pickup and storage device. 3,474,417, 10-21-69, Cl. 340-173.
Kazan, Benjamin, to Xerox Corporation. Storage tube having field effect layer with conducting pins extending therethrough so that readout does not erase charge pattern. 3,483,414, 12-9-69, Cl. 313--065
Kazan, Benjamin, to Xerox Corporation. Recording by particle orientation. 3,485,621, 12-23-69, Cl. 96-1.
Kazan, Benjamin; and Winslow, John S., to Electro-Optical Systems, Inc. Image intensifier including semiconductor amplifier layer. 3,441,736, 4-29-69, Cl. 250-213.
Kazan, John, Jr., to American Cyanamid Company. Polymeric photochromic compositions stabilized with ultraviolet light absorbers. 3,485,764, 12-23-69, Cl. 252-300.
Kazantsev, Boris Afanasievich; Sitro, Igor Nikolaevich; Malyk, Vladimir Avksentievich; and Elyashev, Isaak Grigorievich. Screw pump. 3,431,855, 3-11-69, Cl. 103-3.
Kazantseva, Nina Mikhailovna: *See*—
Telyatnikov, Garry Vladimirovich; Khodorov, Evgeny Iosifovich; Evtjutov, Anatoly Akindinovich; Skopa, Denis Denisovivh; Chervinsky, Anatoly Alexeevich; Shilov, Alexandr Vladimirovich; and Kazantseva, Nina Mikhailovna,3,444,628.
Kazdan, Aralee, to Blazon, Inc., mesne. Amusement and physical fitness device. 3,451,672, 6-24-69, Cl. 272-30.
Kazdan, Samuel. Tooth cleaning device. 3,452,382, 7-1-69, Cl. 15-104.93
Kazel, Sidney. Resealable can. 3,424,338, 1-28-69, Cl. 220-54.
Kazimi, Mahmoud I., to Hexcel Corporation. Focussing reflector with dimpled surface to scatter infra-red radiation. 3,427,625, 2-11-69, Cl. 343-840.
Kazimi, Mahmoud I., to Hexcel Products Inc. Method for making dimpled honeycomb sandwich. 3,483,614, 12-16-69, Cl. 29-600.
Kazmarek, Edward, to Lear Siegler, Inc. Force sensing apparatus. 3,434,342, 3-25-69, Cl. 73-133.
Kazmarek, Edward, to Lear Siegler, Inc. Preloaded servo actuator controls for redundant systems. 3,438,306, 4-15-69, Cl. 91-171.
Kazmierczak, Walter S.: *See*—
Moreland, Stephen T.; and Kazmierczak, Walter S.,3,465,749.
Kazuo, said Terashima, and said Iwala assors. to said Shunichi Yamada: *See*—
Yamada, Shunichi; Achiwa, Kazuo; Terashima, Shiro; and Iwaki, Akio; said, 3,422,135.
Keach, Anthony Eric Raoul; and Smith, Michael Charles, to General Electric Company Limited, The. Multi-core per bit storage array. 3,441,920, 4-29-69, Cl. 340-174.
Keady, Richard J.: *See*—
Winer, Bernard B.; and Keady, Richard J.,3,467,935.
Keady, William L.; St. Clair, Michael J.; and Hazen, James T., to Advalloy, Inc. Lead frame package for semiconductor devices and method for making same. 3,469,684, 9-30-69, Cl. 206-59.
Keady, William L.: *See*—
St. Clair, Michael J.; and Keady, William L.,3,469,953.
Keahl, Gerald Thomas: *See*—
Ashley, Joseph; and Keahl, Gerald Thomas,3,447,873.
Keahl, Gerald Thomas: *See*—
Ashley, Joseph; and Keahl, Gerald Thomas,3,447,873.
Keahl, Gerald Thomas, to Beckman Instruments, Inc. Two wavelength infrared analyzer having a pair of variable interference filters for determining the respective wavelengths. 3,435,209, 3-25-69, Cl. 250-43.5
Keahl, Gerald T., to Beckman Instruments, Inc. Spectrophotometer. 3,449,050, 6-10-69, Cl. 356-89.
Keahn, Albert G.; and Koltvedt, Robert, to Budd Company, The. Vehicle roof structure. 3,427,068, 2-11-69, Cl. 296-137.
Kealy, Joseph P.: *See*—
Sanders, Marion D.; and Kealy, Joseph P.,3,457,061.
Kealy, Thomas Joseph, to Du Pont de Nemours, E. I., and Company. Polymerization of ethylene to high molecular weight substantially linear thermoplastic polyethylene. 3,474,082, 10-21-69, Cl. 260-94.9
Kean, Wallace R.: *See*—
Timberlake, Dale L.; and Kean, Wallace R.,3,466,750.
Keane, Francis Xavier, to Vickers Limited. Hospital bed. 3,434,165, 3-25-69, Cl. 5-61.
Keane, John J.: *See*—
Holub, Fred F.; Keane, John J.; and Kim, James K. S.,3,477,978.
Keane, John J.; and Lough, John C., du Pont de Nemours, E. I., and Company. Reducing flame treatment of polyethylene terephthalate film prior to aluminizing. 3,431,135, 3-4-69, Cl. 117-46.
Kearby, Kenneth K., to Esso Research and Engineering Company. Aluminum simultaneously impregnated with salts of nickel, aluminum and metal promoter. 3,423,194, 1-21-69, Cl. 48-214.
Kearby, Kenneth K.; and Lang, Robert J., to Esso Research and Engineering Company. Catalytic purification treatment of exhaust gas. 3,476,508, 11-4-69, Cl. 23-2.
Kearl, Cyril M.; and Gelbard, Robert B., to General Electric Company. Household refrigerator cabinet construction. 3,474,640, 10-28-69, Cl. 62-449.
Kearn, Louis J. Glass fiber cloth. 3,454,202, 7-8-69, Cl. 223-28.
Kearney & Trecker Corporation: *See*—
Drechsler, Erich F.; and Martin, John L., 3,458,881.
Foster, Jack D., 3,484,718.
Lohneis, Earl Rex, 3,454,313.
Martin, John L., 3,477,121.
Osburn, John G., 3,429,224.
Schachte, John J., 3,483,767.
Sedgwick, Robert K., 3,457,833.
Sedgwick, Robert K.; and Behrendt, Werner K., 3,461,472.
Sedgwick, Robert K.; and Hughes, John J., 3,468,179.
Wetzel, Theodore A., 3,422,246.
Zankl, Frank; Stobbe, Richard E.; and Mattson, Clyde E., 3,422,724.
Kearney & Trecker-C.V.A. Limited: *See*—
Lewry, Kenneth Martin, 3,435,498.
Kearney, Terry R.; and Hitsch, Kurt W. Hydraulic control system for mills. 3,471,094, 10-7-69, Cl. 241-30.
Kearney-National Inc.: *See*—
Blagojevich, Milorad, 3,481,373.
Broom, Charles M.; and Stevens, Robert H., 3,469,020.
Kearns, Edwin W.; and Cutlip, Stephen T., to Rockwell Manufacturing Company. Remote hanger. 3,426,848, 2-11-69, Cl. 166-214.
Kearns, James E.: *See*—
Chao, Stanley K.; and Kearns, James E.,3,451,144.
Kearns, Kenneth Lee, to Dow Chemical Company, The. Device for seating filter plates. 3,474,909, 10-28-69, Cl. 210-232.
Kearns, Norvan O.; and Steinmetz, Rolland J. Spring biased shock absorbing bumper. 3,433,520, 3-18-69, Cl. 293-85.
Kearns, Robert W., to Tann Company, mesne. Motor speed control systems. 3,422,331, 1-14-69, Cl. 318-331.
Kearns, Robert W., to Tann Company, mesne. Pulsed windshield wiper motor control. 3,483,459, 12-9-69, Cl. 318-310.
Kearns, Tommy Carter, to Swift & Company. Manufacture of ammonium polyphosphate from wet process phosphoric acid. 3,464,808, 9-2-69, Cl. 71-34.
Kearns, William J.: *See*—
Okaya, Akira; and Kearns, William J.,3,427,564.
Kearny-National Inc.: *See*—
Mascaro, Thomas C., 3,463,240.
Kearschner, Jack T.: *See*—
Begeman, Robert H.; and Kearschner, Jack T.,3,449,746.
Keary, Marvin William: *See*—
Siber, Erwin-Walter; and Keary, Marvin William,3,447,814.
Keas, Carl F., to Anderson Bros. Mfg., Co. Lid dispensing apparatus. 3,460,314, 8-12-69, Cl. 53-72.
Keas, Carl F., to Anderson Bros. Mfg. Co. Cover feeding apparatus. 3,477,199, 11-11-69, Cl. 53-67.
Keasler, Bennett M., to Burlington Industries, Inc. Process for treating glass fabric. 3,425,109, 2-4-69, Cl. 28-74.
Keathley, Maurice F.; and Mainers, Artez F., to Kentucky Fried Chicken Corporation, mesne. Apparatus for cooking. 3,431,834, 3-11-69, Cl. 99-336.
Keathly, Donald C. Tailgate latch. 3,437,376, 4-8-69, Cl. 298-23.
Keating, Henry M. Duct coupling frame and corner member. 3,460,859, 8-12-69, Cl. 285-319.
Keating, Henry M. Coupling channel. 3,482,861, 12-9-69, Cl. 285-399.
Keating, John W.: *See*—
Kier, Lemont B.; and Keating, John W.,3,427,317.
Keating, Martin, Jr., to Universal Folding Box Co., Inc. Dispensing display package. 3,473,655, 10-21-69, Cl. 206-78.
Keating, Richard T. Bun toaster. 3,463,076, 8-26-69, Cl. 99-349.
Keats, George Harold; and Tinker, Barrie, to Imperial Chemical Industries Limited. Process for the whitening of polymeric materials. 3,447,943, 6-3-69, Cl. 117-33.5
Keats, George H.: *See*—
Scott, Larkin B.; and Keats, George H.,3,467,865.
Keats, John B., to Borg-Warner Corporation. Conical marker device. 3,451,368, 6-24-69, Cl. 116-63.
Keats, John B., to Borg-Warner Corporation. Signal device. 3,478,714, 11-18-69, Cl. 116-63.
Keay, Frederick W.: *See*—
Kilgore, Lee A.; and Keay, Frederick W.,3,474,323.
Keberle, Heinrich; Faigle, Johann Werner; and Wilhelm, Max, to Ciba Corporation. Gamma-amino-beta-(para-halophenyl)-butyric acids and their esters. 3,471,548, 10-7-69, Cl. 260-471.
Keberle, Wolfgang; and Dieterich, Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Process of preparing water dispersible polyurethanes and resulting product. 3,438,940, 4-15-69, Cl. 260-67.
Keberle, Wolfgang; and Dieterich, Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of self-crosslinking polyurethane dispersions. 3,442,843, 5-6-69, Cl. 260-29.2

Keberle, Wolfgang; Dieterich, Dieter; and Bayer, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Water dispersible polyurethane plastics prepared from cyclic compounds. 3,461,103, 8-12-69, Cl. 260-75.
Keble, John M., to British Lighting Industries Limited. Choke having a winding of foil. 3,426,305, 2-4-69, Cl. 336-178.
Keblys, Kestutis A., to Ethyl Corporation. Dehydrogenation process with catalyst pretreating for C_6-C_{24} alkenes. 3,433,851, 3-18-69, Cl. 260-683.3
Keblys, Kestutis A., to Ethyl Corporation. Process for C_6 -C_{24} alkenes by pretreatment of phosphate catalysts. 3,433,852, 3-18-69, Cl. 260-683.3
Kebrich, Leonard M.; and White, Edward L., to National Lead Company. Vinyl halide resins stabilized with tribasic lead isophthalate. 3,440,213, 4-22-69, Cl. 260-45.75
Keck, Arthur C.; and Tomkinson, Stanley E., to General Electric Company. Dynamoelectric machine having a versatile electrical circuit-making unit. 3,482,128, 12-2-69, Cl. 310-71.
Keck, Johannes: *See*—
Nickl, Josef; Keck, Johannes; and Engelhorn, Robert,3,448,106.
Keck, Johannes; Nickl, Josef; Koss, Friedrich-Wilhelm; Schraven, Eckhard; and Beisenherz, Gerwin, to Boehringer Ingelheim G.m.b.H. Novel halo-substituted tetrahydroquinazolines. 3,454,574, 7-8-69, Cl. 260-251.
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid,3,470,152.
Keck, Julian W. Two-stage baffle for high pressure feedwater heaters. 3,451,472, 6-24-69, Cl. 165-134.
Keck, Max H.: *See*—
Waller, Richard C.; and Keck, Max H.,3,446,778.
Keckler, David P., to Diamond Shamrock Corporation. Scrubbing procedure for crude acetylene stream. 3,440,297, 4-22-69, Cl. 260-679.
Kedem, Ora: *See*—
Bloch, Rene; Katchalsky, Aharon; Kedem, Ora; and Vofsi, David,3,450,630.
Bloch, Rene; Vofsi, David; Kedem, Ora; and Katchalsky, Aharon,3,450,631.
Kedson, Leonard P.; and Biagi, Ferando, to United States of America, Air Force. Complex wave differentiator having automatic switching of constants of differentiation. 3,452,218, 6-24-69, Cl. 307-229.
Kedson, Leonard, to Electric Associates Inc. Protection circuit for an amplifier system. 3,436,667, 4-1-69, Cl. 330-9.
Kee, Harry: *See*—
Thouret, Wolfgang E.; and Kee, Harry,3,474,278.
Kee, Incorporated: *See*—
Edge, Gordon Malcolm; Eiloart, Timothy March Beaupre; Horabin, Ivan S.; and Rayner, Peter John Wynn, 3,423,845.
Keech, Roger A., to Menasco Manufacturing Company. Selective damping device. 3,458,016, 7-29-69, Cl. 188-96.
Keefe, Arthur T.: *See*—
Young, Ian R.; Keefe, Arthur T.; and Moss, Geoffrey,3,475,727.
Keefe, George E.: *See*—
Castellani, Eugene E.; Keefe, George E.; and Romankiw, Lubomyr T.,3,483,534.
Daughton, James M.; and Keefe, George E.,3,456,248.
Keefe, George E.; and Middelhoek, Simon, to International Business Machines Corporation. Magnetic film memories. 3,466,640, 9-9-69, Cl. 340-174.
Keefe, John M. Pigeon chaser. 3,436,882, 4-8-69, Cl. 52-101.
Keefe, Robert L., Jr., to Du Pont de Nemours, E. I., and Company. Process for making polyester cord for no-reset V-belts. 3,469,001, 9-23-69, Cl. 264-290.
Keefer, David E.: *See*—
Hunter, Robert D.; Keefer, David E.; and Wilhite, John E.,3,483,519.
Keefer, George E., to Owens-Illinois, Inc. Method and apparatus for producing hollow glass articles by module immersion technique. 3,453,094, 7-1-69, Cl. 65-23.
Keefer, George E., to Owens-Illinois, Inc. Gas fired frit melter. 3,460,932, 8-12-69, Cl. 65-335.
Keefer, George E., to Owens-Illinois, Inc. Molten additive distributor for glass. 3,466,160, 9-9-69, Cl. 65-157.
Keefer, George E.; and Pei, Yu K., to Owens-Illinois, Inc. Molten addition of colorant in a glass furnace forehearth. 3,445,216, 5-20-69, Cl. 65-145.
Keegan, Larry, deceased0 (by Keegan, Lee E.; executrix). Power transfer means for connecting driven and undriven wheels of vehicles. 3,439,765, 4-22-69, Cl. 180-22.
Keegan, Lee E.: *See*—
Keegan, Larry,3,439,765.
Keegan, Robert J. Sales control indicator. 3,468,476, 9-23-69, Cl. 235-23.
Keehn, Jonathan N., II. Variable shock absorber. 3,420,341, 1-7-69, Cl. 188-88.
Keel, David John Vincent; and Kightley, Raymond John, to Lucas, Joseph, (Industries) Limited. Method of making cadmium for alkaline batteries and product thereof. 3,449,167, 6-10-69, Cl. 136-76.
Keeler Brass Company: *See*—
Bouwma, Ronald D., 3,480,990.
Jakeway, Gerald V., 3,456,574.
Keeler, Miner S., II, 3,430,994.
Keeler, Charles H. Method of mounting a magnifying attachment on a spectacle lens. 3,456,327, 7-22-69, Cl. 29-406.
Keeler, Donald L. Fastening device. 3,483,788, 12-16-69, Cl. 85-7.
Keeler, Howard S.: *See*—
Donner, Edward O.; Keeler, Howard S.; Botjer, John L.; and Frye, Harold E.,3,453,384.
Keeler, Jack Daniel: *See*—
Snellman, Donald L.; and Keeler, Jack Daniel,3,420,517.
Keeler, Mary K. Automatic liquid sampler. 3,431,784, 3-11-69, Cl. 73-423.
Keeler, Miner S., II, to Keeler Brass Company. Insulating handle connector and method of making same. 3,430,994, 3-4-69, Cl. 287-53.
Keeler, Miner S., II. Gasoline dispensing system with register. 3,437,240, 4-8-69, Cl. 222-25.
Keeler, Robert A.: *See*—
Grelecki, Chester J.; Keeler, Robert A.; and Szabo, Barna, Jr.,3,470,042.
Keeler, Robert E.; Freeman, Don G.; and Van Blerkom, Richard, to International Business Machines Corporation. Digital demodulator. 3,473,132, 10-14-69, Cl. 329-122.
Keeler, Robert M.: *See*—
Oglesby, Minor W., Jr.; and Keeler, Robert M.,3,428,528.
Smith, Dexter E.; Broerman, Arthur B.; and Keeler, Robert M.,3,450,800.
Smith, Dexter E.; Keeler, Robert M.; and Guenther, Emmerich,3,476,729.
Keeleric, George F. Dynamic electrode for electrolytic machining apparatus. 3,433,727, 3-18-69, Cl. 204-224.
Keeley, Robert A., to Norbest Turkey Growers Association. Method of preparing animal skin to constitute a binder in food products. 3,455,703, 7-15-69, Cl. 99-208.
Keeling, Edward J. Safety ski binding. 3,434,731, 3-25-69, Cl. 280-11.35
Keeling, John B.: *See*—
Graham, John V.; Keeling, John B.; and Robinett, Leonard L.,3,439,783.
Keen, Albert John: *See*—
Lee, Ronald Henry; and Keen, Albert John,3,434,413.
Lee, Ronald Henry; and Keen, Albert John,3,468,246.
Keen, Arnold Ralph, to Du Pont de Nemours, E. I., and Company. Flow diverting apparatus for viscous liquids. 3,481,365, 12-2-69, Cl. 137-608.
Keen, James L., to General Mills, Inc. Production of low odor, low taste glactomannan gums. 3,455,899, 7-15-69, Cl. 260-209.
Keenan, John D., Jr.: *See*—
Sylvester, John D.; and Keenan, John D., Jr.,3,478,490.
Keenan, Joseph H.: *See*—
Nowak, Leon J., Jr.; Robinson, Joseph L.; Krolopp, Otto C.; Keenan, Joseph H.; and Smith, Joseph L.,3,486,240.
Keenan, Julian J.; Lilja, Sten A.; and Kramos, Charles B., to Engelhard Industries, Inc. Method of making decorative metal stock. 3,465,419, 9-9-69, Cl. 29-481.
Keenan, Peter B.: *See*—
Wilferth, Robert A.; and Keenan, Peter B.,3,485,623.
Keenan, Peter P., to Lockheed Aircraft Corporation. Multipactor rectifier. 3,457,490, 7-22-69, Cl. 321-8.
Keene, Katheryn, executris of the estate of: *See*—
Cope, Arthur C.; Engelhardt, Edward L.; Keene, Katheryn, executris of the estate of; and Cope, Arthur C., deceased,3,454,643.
Keene Packaging Associates: *See*—
Polk, Edgwin R.; and La Grassa, Antonio, 3,466,214.
Keene, Paul M. Dogfood server. 3,455,280, 7-15-69, Cl. 119-61.
Keene, Robert J.; and Szumilas, Raymond S., to United States Steel Corporation. Device for supplying lubricating oil to molds. 3,448,788, 6-10-69, Cl. 164-268.
Keene, William A., to Phillips Petroleum Company. Method of making an article carrying case. 3,454,439, 7-8-69, Cl. 156-69.
Keene, William C., to ACF Industries, Incorporated. Covered hopper cars. 3,427,994, 2-18-69, Cl. 105-248.
Keeney, Clare G.: *See*—
James, Robert E.; and Keeney, Clare G.,3,436,554.
Keenum, John C., Jr.; and Angstadt, Richard L., to Grace, W. R., & Co. Cement set retarding composition. 3,429,724, 2-25-69, Cl. 106-89.
Keenum, John C., Jr.; and Angstadt, Richard L., to Grace, W. R., & Co. Cement retarder composition. 3,429,725, 2-25-69, Cl. 106-89.
Keep Chemical Company: *See*—
Ferrara, Peter J., 3,479,220.
Keepin, G. Robert, to United States of America, Atomic Energy Commission. Detection, identification and analysis of fissionable isotopes. 3,456,113, 7-15-69, Cl. 250-83.1

Keers, Iendrik Jan Frederik: *See—*
Koeman, Meindert; and Keers, Iendrik Jan Frederik,3,462,653.
Keese, Beth: *See—*
Sietmann, Vernon H., 3,479,748.
Keese, Beverly W., to Rockwell-Standard Company, mesne. Vehicle drive assembly. 3,434,364, 3-25-69, Cl. 74-391.
Keese, Larry: *See—*
Sietmann, Vernon H., 3,479,748.
Keet, Lourens: *See—*
Eisinga, Simon; and Keet, Lourens,3,486,297.
Keever Company, The: *See—*
Hyldon, Roy G.; Fink, Doris E.; and Aboul-Saad, Halim G., 3,450,692.
Kefalas A/S: *See—*
Holm, Torkil, 3,436,391.
Petersen, Povl Viggo; Lassen, Niels; Norgaard, Jette; and Huld, Torben, 3,467,675.
Kefauver, Lester R., Jr., to Electro-Therm, Inc. Plug-in electrical heating unit. 3,466,426, 9-9-69, Cl. 219-451.
Kefford, Noel Price: *See—*
Bruce, Michael Ian; Zwar, John; and Kefford, Noel Price,3,469,965.
Kegelman, Thomas D.: *See—*
Abel, Irving R.; and Kegelman, Thomas D.,3,446,916.
Kegg, Robert R.: *See—*
Doering, William E.; and Kegg, Robert R.,3,457,095.
Keggi, Janis J.: *See—*
Ebel, Robert Henry; Adler, Stephen Fred; and Keggi, Janis J.,3,421,837.
Kehe, Alfred W., to Continental Can Company, Inc. Hot melt adhesive composition. 3,485,783, 12-23-69, Cl. 260-27.
Kehl, Denis: *See—*
van Tran, Nguyen; and Kehl, Denis,3,486,129.
Kehl, William L.; and Rennard, Raymond J., Jr., to Goodrich-Gulf Chemicals, Incorporated. Dehydrogenation process. 3,450,787, 6-17-69, Cl. 260-680.
Kehl, William L.; and Rennard, Raymond J., Jr., to Goodrich-Gulf Chemicals, Incorporated. Dehydrogenation process. 3,450,788, 6-17-69, Cl. 260-680.
Kehl, William L.; Rennard, Raymond J., Jr.; and Basila, Michael R., to Goodrich-Gulf Chemicals, Incorporated. Dehydrogenation process. 3,450,789, 6-17-69, Cl. 260-680.
Kehler, Paul. Self-burying tracked vehicle. 3,456,750, 7-22-69, Cl. 180-6.7
Kehoe, Edward Charles, to Saline Water Conversion Corporation, mesne. Vapor condensation system. 3,454,471, 7-8-69, Cl. 203-42.
Kehoe, Norman T.; and Stiegler, Elwood A., to Uniroyal, Inc. Apparatus and method for supplying sheet materials and beads to and assembling the same on a tire building drum. 3,479,238, 11-18-69, Cl. 156-111.
Kehr, Clifton L.; and Guthrie, James L., to Grace, W. R., & Co. Crosslinking polyolefins with selected dioxime diesters. 3,478,004, 11-11-69, Cl. 260-80.78
Kehr, Richard: *See—*
Massey, Edward J., 3,458,164.
Kehrer, Georg: *See—*
Dietrich, Georg; and Kehrer, Georg,3,439,623.
Keichler, Edwin J.; Emmerich, Clifford L.; and Stern, Theodore L., to Stern Metals Corporation. Apparatus for depositing a solder strip on a base metal band. 3,460,512, 8-12-69, Cl. 118-59.
Keidel, John F., to General Atronics Corporation. Photoelectric code reading apparatus enabling in- use focusing and positioning. 3,479,519, 11-18-69, Cl. 250-219.
Keifer, James A. Rotary cutter and adjustable shield therefor. 3,422,473, 1-21-69, Cl. 12-91.
Keihin Hitachi Engineering Co., Ltd.: *See—*
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; Akiyama, Mitsuo; and Kikuchi, Ukichi, 3,420,592.
Keihin Hitachi Engineering Kabushiki Kaisha: *See—*
Moriyama, Hiromi; Yamada, Hiroshi; Nakanishi, Tsunemoto; and Kiriyama, Toshikatsu, 3,443,312.
Keijzer, Johan H., to Monroe Belgium N.V. Vehicle leveling system. 3,466,055, 9-9-69, Cl. 280-6.
Keil, John G.; and Hooper, Irving R., to Bristol-Myers Company. Coumarin derivatives. 3,428,623, 2-18-69, Cl. 260-210.
Keil, John G.; and Hooper, Irving R., to Bristol-Myers Company. Noviosyloxy coumarin containing compounds. 3,454,548, 7-8-69, Cl. 260-210.
Keil, Joseph W.: *See—*
Gowdy, William G.; and Keil, Joseph W.,3,453,248.
Keil, Joseph Woodward; and Whipple, Clyde Lee, to Dow Corning Corporation. Water repellent and/or release treatment. 3,460,981, 8-12-69, Cl. 117-135.1
Speier, John L.; Keil, Joseph W.; and Gowdy, William G.,3,440,302.
Keil, Joseph W., to Dow Corning Corporation. Compositions and processes for adhering polyolefins to surfaces. 3,477,901, 11-11-69, Cl. 161-208.
Keil, Karl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Olefins and process for purifying them. 3,432,573, 3-11-69, Cl. 260-683.15
Keil, O'Dell F., to American Potato Company, mesne. Apparatus and method for the continuous production of shaped-dough pieces. 3,459,141, 8-5-69, Cl. 107-14.
Keil, Walter M., to Youngstown Foundry and Machine Co., The. Apparatus for bundling slender articles. 3,427,959, 2-18-69, Cl. 100-212.
Keil, Werner: *See—*
Rothmann, Hans; Keil, Werner; and Reichter, Heinz,3,444,060.
Keiler, Wilfred: *See—*
Thomas, Rainer; Keiler, Wilfred; and Weber, Paul,3,458,901.
Keillor, John M.; and Smith, Oliver T., to Union Camp Corporation, mesne. Shock absorbing container. 3,433,353, 3-18-69, Cl. 206-46.
Keim, Jonathan R., to Honeywell Inc. Turbidimeter using photoelectric linearizing circuit including switching circuit to insert preselected resistances. 3,449,578, 6-10-69, Cl. 250-209.
Keim, William A.: *See—*
Gregory, James T.; Robertson, Arthur B.; and Keim, William A.,3,451,966.
Keimer, Birgit Yrsa: *See—*
Szabo, Ladislaus D. A.; and Keimer, Birgit Yrsa,3,482,018.
Keinanen, Henry J.: *See—*
Tysver, Oliver J.; Keinanen, Henry J.; and Gore, Ernest M.,3,462,015.
Keinath, Rudolph: *See—*
Katuschenko, Walter; and Keinath, Rudolph,3,483,496.
Keinonen, Frank W., to Pierce-Pacific Manufacturing, Inc. Stabilizing outrigger apparatus for mobile vehicle. 3,426,918, 2-11-69, Cl. 212-145.
Keinonen, Frank W., to Pierce-Pacific Manufacturing, Inc. Means for mounting a load carrier on a vehicle. 3,472,527, 10-14-69, Cl. 280-404.
Keiper, Francis P., Jr.; and Comeau, Charles P., to Philco-Ford Corporation. Voltage squaring circuit employing forward biased transistors with common collector load impedance. 3,484,622, 12-16-69, Cl. 307-229.
Keiper, Phillip C., to Westinghouse Electric Corporation. Elevator motor control system including dynamic braking with motor field excitation. 3,448,364, 6-3-69, Cl. 318-381.
Keir, Harold C. Music teaching device. 3,463,043, 8-26-69, Cl. 84-470.
Keiser, David Howard, Jr. Hedge shears. 3,470,613, 10-7-69, Cl. 30-268.
Keiser, Edward F.: *See—*
Bialo, John M.; Keiser, Edward F.; and Vogelman, Joseph H.,3,424,859.
Keister, Frank Z.: *See—*
Congleton, Robert S.; and Keister, Frank Z.,3,486,217.
Keister, George P.: *See—*
Buehler, Oscar R.; Keister, George P.; and Long, Joseph F.,3,461,167.
Keister, Oliver B., Jr.; Hursh, Charles M.; and Link, John G. Remotely controlled automatic hopper car door actuating mechanism. 3,446,373, 5-27-69, Cl. 214-63.
Keistman, Arnold R.; and Weakley, Robert H., to United Aircraft Corporation, mesne. Electromagnetic actuator. 3,433,983, 3-18-69, Cl. 310-15.
Keitel, Fritz Gunther. Fermenting vegetable mash to produce a stable vegetable juice with simultaneous production of fermented fodder. 3,420,676, 1-7-69, Cl. 99-105.
Keitel, Gerald A.: *See—*
Houston, Harry H.; Keitel, Gerald A.; and Williamson, William R.,3,429,720.
Keitel, Philip J.: *See—*
Blunt, Robert M.; and Keitel, Philip J.,3,453,157.
Fay, Richard J.; and Keitel, Philip J.,3,447,881.
Fay, Richard J.; and Keitel, Philip J.,3,461,006.
Keiter, Alfred: *See—*
Hesse, Alfred; and Keiter, Alfred,3,427,963.
Keiter, Irvin L.; Sichel, Leonard H., Jr.; Morgenson, Edgar O., Jr.; and Questa, Charles R., to Burroughs Corporation. Bi-directional code converter. 3,461,432, 8-12-69, Cl. 340-172.5
Keith, Carl D.: *See—*
Adlhart, Otto J.; Keith, Carl D.; and Pond, George R.,3,425,875.
Keith, Carl D., to Engelhard Industries, Inc. Production of nitric acid. 3,428,424, 2-18-69, Cl. 23-162.
Keith, Carl D., to Engelhard Industries, Inc. Method of preparing a supporting catalyst. 3,437,605, 4-8-69, Cl. 252-463.
Keith, Carl D.; and Cornely, Kurt W., to Engelhard Industries, Inc. Alumina production. 3,429,660, 2-25-69, Cl. 23-143.
Keith, Carl D.; Cunningham, Charles E.; and Schreuders, Teunis, to Engelhard Industries, Inc. Apparatus and system for the purification of internal combustion engine exhaust gases. 3,443,911, 5-13-69, Cl. 23-288.

Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A., to Engelhard Industries, Inc. Silver and silver-containing copper-cadmium oxide-zinc oxidesbarium oxide catalysts. 3,420,784, 1-7-69, Cl. 252-475.
Keith, Carl D.; Hindin, Saul G.; and Galen, Ludwig A., to Engelhard Industries, Inc. Silver-barium catalyst. 3,423,328, 1-21-69, Cl. 252-430.
Keith, Carl D.; and Mooney, John J., to Engelhard Industries, Inc. Catalytic radiant heater. 3,441,359, 4-29-69, Cl. 431-328.
Keith, Carl D.; and Schreuders, Teunis, to Engelhard Industries, Inc. Catalyst cartridge. 3,441,382, 4-29-69, Cl. 23-288.
Keith, Carl D.; Schreuders, Teunis; and Cunningham, Charles E., to Engelhard Industries, Inc. Apparatus for purifying exhaust gases of an internal combustion engine. 3,441,381, 4-29-69, Cl. 23-288.
Haley, Alfred J., Jr.; Keith, Carl D.; and May, James E.,3,461,058.
Keith, Charles H., II; Norman, Vello; and Bates, William W., Jr. Liggett & Myers Incorporated, mesne Cigarette filter. 3,460,543, 8-12-69, Cl. 131-10.7
Keith, Charles H.: *See*—
Misenheimer, James R.; and Keith, Charles H.,3,426,765.
Keith, Garland B., to Eastman Kodak Company. Method and apparatus for cutting elongated material. 3,485,120, 12-23-69, Cl. 83-37.
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F., to Western Oil Tool & Manufacturing Co., Inc. Scraper. 3,426,456, 2-11-69, Cl. 37-8.
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F., to Western Oil Tool & Manufacturing Company, Inc. Earth scraper with sliding vertical elevator guide means. 3,431,660, 3-11-69, Cl. 37-8.
Keith, Percival C. Combination methods involving the making of gaseous carbon dioxide and its use in crude oil recovery. 3,442,332, 5-6-69, Cl. 166-8.
Keith, Wayland D.: *See*—
Sanders, Davis H.; and Kennedy, James M., 3,437,043.
Sanders, Davis H.; and Kennedy, James M., 3,437,044.
Keithahn, Julian D.: *See*—
Castro, Luis F.; Kelthahn, Julian D.; Leutwyler, Kurt; and Oden, Jerome H.,3,472,275.
Clark, Earnest H., Jr.; De Rochemont, John F.; and Keithahn, Julian D.,3,433,303.
Keithley Instruments, Inc.: *See*—
Erdman, Robert J., 3,424,981.
Praglin, Julius; and Kime, Robert C., Jr., 3,474,347.
Kekish, George T., to Nalco Chemical Company. Homopolymerization of acrolein in aqueous monomer emulsion via redox catalyst. 3,438,941, 4-15-69, Cl. 260-67.
Kekish, George T., to Nalco Chemical Company. Invert emulsion polymerization of acrolein. 3,457,230, 7-22-69, Cl. 260-67.
Kel Corporation: *See*—
Robb, Winfred Edward, Jr., 3,435,456.
Kelbel, Donald W., to Borg-Warner Corporation. Overdrive transmission. 3,440,904, 4-29-69, Cl. 74-781.
Kelber, Edward H., to Swedlow, Inc. Grinding apparatus and method. 3,447,267, 6-3-69, Cl. 51-3.
Kelch, David E.: *See*—
Garber, Thomas; Miller, Arthur; and Kelch, David E.,3,421,106.
Kelch, Edward J.; and Sergent, David A., to General Electric Company. Apparatus for clamping and rotating stators. 3,457,899, 7-29-69, Cl. 118-503.
Kelch, Heinz; and Zimmermann, Hans, to Kienzle Apparate G.m.b.H. Registering device. 3,469,775, 9-30-69, Cl. 235-1.
Kelchner, Jay R.: *See*—
Verrando, Marcel G.; and Kelchner, Jay R.,3,462,315.
Kelco Company: *See*—
Edlin, Ray L.; and Rocks, James K., 3,480,450.
Fairchild, William P., 3,480,018.
Gibsen, Kenneth F., 3,481,889.
Hatton, John O., 3,469,377.
McNeely, William H., 3,427,226.
McNeely, William H., 3,433,708.
Miller, Aaron; and Rocks, James K., 3,455,701.
Schweiger, Richard G., 3,446,796.
Kelek Company, The: *See*—
Inglis, Jack S., 3,450,949.
Kussmaul, Edwin E., 3,458,680.
Kelemen, Denis G., to Du Pont de Nemours, E. I., and Company. Process for applying counterelectrodes. 3,472,683, 10-14-69, Cl. 117-200.
Kelemen, Frank K., to Omark Industries, Inc., mesne. Stud welding. 3,445,619, 5-20-69, Cl. 219-98.
Kell, Furman D.: *See*—
Wilcox, Roy C.; and Kell, Furman D.,3,428,524.
Kell, Hans: *See*—
Keller, Willi; Davin, Heinrich; and Kell, Hans,3,485,516.
Kell, John, to Kangol Magnet Limited. Safety belt anchorage points. 3,458,233, 7-29-69, Cl. 297-385.
Kell, Nathaniel B., to General Motors Corporation. Vehicle speed controlled carburetor accelerator pump. 3,475,994, 11-4-69, Cl. 74-857.
Kell, Ralph W., to Goodyear Tire & Rubber Company, The. Belt track for vehicles. 3,480,339, 11-25-69, Cl. 305-35.
Kell-Dot Industries, Inc.: *See*—
Kelly, Edwin F.; and Thomas, Frank J., 3,458,322.
Kellar, Arnold A.; and Carter, Morris B., to Union Carbide Corporation. High temperature cement. 3,429,759, 2-25-69, Cl. 156-155.
Kellar, Arnold A.: *See*—
Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T.,3,438,858.
Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T.,3,439,073.
Kellaway, Thomas Henry; and Thomas Henry, to Dempster Brothers, Inc. Apparatus for loading and unloading containers. 3,454,175, 7-8-69, Cl. 214-505.
Kelleher, Raymond L., to Gonzaga University, The Corporation of. Method and apparatus for atmospheric sampling. 3,474,659, 10-28-69, Cl. 73-23.2
Kelleher, William L.: *See*—
Garber, Thomas; and Kelleher, William L.,3,434,034.
Kellems, Kenneth K., to Acme Appliance Manufacturing Company. Panel frame corner connector. 3,450,426, 6-17-69, Cl. 287-189.35
Kellems, Ronald D., to Reynolds Metals Company. Apparatus for charging container means with a charging fluid. 3,442,303, 5-6-69, Cl. 141-18.
Keller & Knappich G.m.b.H.: *See*—
Kirsch, Karl; Uhl, Siegfried; and Schiele, August, 3,434,382.
Schaffler, Georg, 3,486,440.
Keller, Adam L., to Swiss Controls & Research, Inc. Multivibrator flasher circuit having advanced turn-on. 3,421,107, 1-7-69, Cl. 331-113.
Keller, Adam L., to Swiss Controls & Research, Inc. Multivibrator flasher circuit. 3,421,108, 1-7-69, Cl. 331-113.
Keller, Alexander. Vented closure. 3,462,037, 8-19-69, Cl. 215-56.
Keller, Arnold; and Pohl, Fritz Georg, to Austenal Europa, Inc. Hand motor to drive tools for surgical purposes at different speeds or oscillation frequencies. 3,472,081, 10-14-69, Cl. 74-48.
Keller, Arthur H., to International Harvester Company. Axial flow combine. 3,439,683, 4-22-69, Cl. 130-27.
Keller, Ben R., Sr. Shielded liquid zone gas-liquid separator. 3,477,208, 11-11-69, Cl. 55-218.
Keller, Carol K.: *See*—
Weigl, John W.; Forest, Edward; and Keller, Carol K.,3,480,962.
Keller, Clarence, to Bendix Corporation, The. Parking brake mechanism. 3,482,658, 12-9-69, Cl. 188-78.
Keller, Dennis F.: *See*—
Koch, Ludwig W.; and Keller, Dennis F.,3,471,204.
Keller, Donald D., to Orthopedic Equipment Company, Inc. Motor drive unit with semiconductor controlled speed and torque. 3,424,967, 1-28-69, Cl. 318-345.
Keller, Emil C., to Abex Corporation. Friction elements. 3,448,071, 6-3-69, Cl. 260-38.
Keller, Emil C., to Abex Corporation. Friction elements. 3,477,983, 11-11-69, Cl. 260-38.
Keller, Ernest A., to Motorola, Inc. Target information determining system. 3,422,396, 1-14-69, Cl. 340-3.
Keller, Ernst: *See*—
Dazzi, Joachim; Schwarzenbach, Kurt; and Keller, Ernst,3,424,683.
Keller, Frederick C.: *See*—
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B.,3,459,624.
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B.,3,463,696.
Keller, George E., II: *See*—
Rectenwald, Charles E.; Keller, George E., II; and Clark, Jared W.,3,427,359.
Keller, George H., to Becton, Dickinson and Company. Electronic thermometer. 3,469,449, 9-30-69, Cl. 73-362.
Keller, Hans, to Hell, Rudolf, Dr.-Ing., Kommanditgesellschaft Kiel. Device for electronically producing corrected color separations by photoelectrically scanning colored originals to be reproduced. 3,462,546, 8-19-69, Cl. 178-5.2
Keller, Hans; Risch, Karl; and Althen, Winfried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for protecting titanium and titanium alloys against corrosion by oxidizing acid media. 3,457,103, 7-22-69, Cl. 117-135.1
Keller, Harold A., to Pollatch Forests, Inc. Continuous press for curing scarfed veneer joints. 3,481,376, 12-2-69, Cl. 144-281.
Keller, Harold A.; and Seay, Dwight G., to Potlatch Forests, Inc. Vacuum process and apparatus for transferring sheets. 3,463,483, 8-26-69, Cl. 271-11.
Keller, Harold A.: *See*—
Shelton, Norman Thomas; Keller, Harold A.; and Seay, Dwight G.,3,461,932.
Keller, Harold M., to General Mills, Inc. French fried potato mix made from dehydrated mashed potatoes. 3,468,673, 9-23-69, Cl. 99-100.
Keller, Heinz: *See*—
Heidemann, Eckhart; and Keller, Heinz,3,457,742.

Keller, Heinz; and Grossmann, Hans, to Durand & Hugenin A.G. Water-soluble disazo dyestuffs. 3,467,645, 9-16-69, Cl. 260-174.
Keller, Henry G., to FMC Corporation. Power transmitting chain. 3,448,630, 6-10-69, Cl. 74-236.
Keller, James L., to Union Oil Company of California. Method of treating ammonia and hydrogen sulfide gases to produce ammonium thiosulfate and sulfur therefrom. 3,431,070, 3-4-69, Cl. 23-115.
Keller, James P., to Rensulate Corporation. Insulated underground conduit. 3,484,509, 12-16-69, Cl. 264-45.
Keller, John D., to Bausch & Lomb Incorporated. Forward scatter photometer. 3,431;423, 3-4-69, Cl. 250-218.
Keller, John W., Jr., to Cordis Corporation. Multivibrator having pulse rate responsive to battery voltage. 3,474,353, 10-21-69, Cl. 331-113.
Keller, John Walter, Jr., to Cordis Corporation. Standby cardiac pacer. 3,431,912, 3-11-69, Cl. 128-422.
Keller, John Walter, Jr., to Cordis Corporation. Multimode cardiac pacer. 3,433,228, 3-18-69, Cl. 128-422.
Keller, Joseph Richard, to AMP, Incorporated. Commutator termination. 3,428,843, 2-18-69, Cl. 310-234.
Keller, Karl H.: *See—*
Haselton, Frederick R.; and Keller, Karl H.,3,450,083.
Thomas, John F.; and Keller, Karl H.,3,482,903.
Keller, Leon D., to Dorr-Oliver Incorporated. Hydraulic upflow classification apparatus. 3,485,365, 12-23-69, Cl. 209-422.
Keller, Leon D.; and Sandstrom, Eric L., to Dorr-Oliver Incorporated. Trunnion valve for continuous rotary filters. 3,452,874, 7-1-69, Cl. 210-331.
Keller, Max: *See—*
Zweidler, Reinhard; and Keller, Max,3,467,600.
Keller Ofenbau G.m.b.H.: *See—*
Fries, Heinrich; and Pfeil, Richard, 3,459,412.
Keller, Oscar; Steiger, Norbert; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 2-Aminomercapto-and 2-aminoalkylmercapto- benzophenone oximes. 3,442,946, 5-6-69, Cl. 260-566.
Keller, Otto: *See—*
Mergenthaler, Helmut, 3,464,189.
Keller, Paul: *See—*
Speidel, Blasius; and Keller, Paul,3,420,106.
Speidel, Blasius; and Keller, Paul,3,435,683.
Keller, Peyton R.: *See—*
Rhodes, Patrick D., 3,459,427.
Keller, Robert C.; and Brunsdon, William E., to General Motors Corporation. Multiple ratio force transfer lever mechanism. 3,466,942, 9-16-69, Cl. 74-516.
Keller, Robert Christian: *See—*
Hochreuter, Richard; and Keller, Robert Christian,3,466,278.
Keller, Robert D. Dental plate knife. 3,422,533, 1-21-69, Cl. 30-278.
Keller, Robert J., III. Water fixture. 3,448,768, 6-10-69, Cl. 137-606.
Keller, Robert Joseph. Electrical wire joiner. 3,437,981, 4-8-69, Cl. 339-103.
Keller, Robert P.; and Ash, Eugene J., to Chrysler Corporation. Tubular housing and support. 3,428,372, 2-18-69, Cl. 308-15.
Keller, Siegfried; and Blaser, Alfred, to Werkzeugmaschinenfabrik Oerlikon Buhrle & Co. Device for automatically regulating the brake pressure depending on the vehicle loading. 3,460,871, 8-12-9, Cl. 303-22.
Keller, Ted G.; and Stelzer, William, to Stoffel Seals Corporation. Snap-on medallions. 3,468,045, 9-23-69, Cl. 40-1.5
Keller, Ulrikh Ulrikhovich; Ledokhovich, Adolf Nikodimovich; Bitjugov, Jury Alexeevich; and Stratulatov, Gennady Yakovlevich. Injection pump valve. 3,479,999, 11-25-69, Cl. 123-139.
Keller, Walter F., to Northrop Corporation. Gas generating system. 3,456,440, 7-22-69, Cl. 60-39.48
Keller, Willi; Davin, Heinrich; and Kell, Hans, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Double-pipe line flange connection. 3,485,516, 12-23-69, Cl. 285-14.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Method of crucible-free zone melting crystal-line rods, especially of semiconductive material. 3,477,811, 11-11-69, Cl. 23-301.
Keller, Wolfgang; and Berger, Gunther, to Siemens Aktiengesellschaft. Apparatus for crucible-free floating zone melting of crystalline rods. 3,454,368, 7-8-69, Cl. 23-301.
Keller, Wolfgang; and Schmidt, Otto, to Siemens Aktiengesellschaft. Device for inductively heating semiconductor material. 3,436,509, 4-1-69, Cl. 219-10.77
Keller, Wolfgang: *See—*
Raithel, Kurt; Reuschel, Konrad; and Keller, Wolfgang,3,461,359.
Kellerer, Hermann; Weinfurter, Rudolf; Korber, Ulrich; and Voegtlen, Dieter. Apparatus for control of seizure of central identification apparatus of a telephone PBX system. 3,475,562, 10-28-69, Cl. 179-18.
Kellett, Eric, to C.A.V. Limited. Gas turbine with lubricant and fuel supply systems therefor. 3,475,907, 11-4-69, Cl. 60-39.08
Kelley, Amos M. Puncture-proof tire liner. 3,443,618, 5-13-69, Cl. 152-206.
Kelley, Archibald P., to Garrett Corporation, The. Helicopter lift augmentation means. 3,455,182, 7-15-69, Cl. 74-661.
Kelley, Archie W. Rotatable and depressible washing apparatus. 3,451,628, 6-24-69, Cl. 239-587.
Kelley, Carl S., to Phillips Petroleum Company. Temperature control of exothermic reactions. 3,441,626, 4-29-69, Cl. 260-677.
Kelley Company, Inc.: *See—*
Kelley, Garrett P., 3,440,673.
Kuhns, Robert C., 3,423,559.
Kelley, Dewitt T.: *See—*
Koudelka, Robert E.; Arnold, Cornelius S.; and Kelley, Dewitt T.,3,427,151.
Kelley, Garrett P., to Kelley Company, Inc. Dockboard. 3,440,673, 4-29-69, Cl. 14-71.
Kelley, George S., to Curtiss-Wright Corporation. Spray-cooled rocket engine. 3,451,222, 6-24-69, Cl. 60-258.
Kelley, Harold P., Jr., to General Electric Company. Luminaire. 3,482,087, 12-2-69, Cl. 240-3.
Kelley, Harry L. Fish bite signalling device. 3,440,753, 4-29-69, Cl. 43-17.
Kelley, Hugh D., to Ehrsam Company, mesne. Conveyor. 3,468,410, 9-23-69, Cl. 198-173.
Kelley, Jack B.: *See—*
Piehl, Bill, 3,479,043.
Kelley, James K.: *See—*
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C.,3,479,443.
Kelley, James O.: *See—*
Propst, Robert L.; and Kelley, James O.,3,425,171.
Propst, Robert L.; and Kelley, James O.,3,430,997.
Propst, Robert L.; and Kelley, James O.,3,455,529.
Kelley, James W.; and Plough, Charles T., to Fairchild Camera and Instrument Corporation. MOS transistor and method of manufacture. 3,463,974, 8-26-69, Cl. 317-235.
Kelley, Jerry O.: *See—*
Miller, Eugene M.; and Kelley, Jerry O.,3,453,397.
Kelley, Jerry O., to Arvin Industries, Inc. Tape reel cartridge. 3,442,373, 5-6-69, Cl. 206-52.
Kelley, Jerry O., to Arvin Industries, Inc. Roller or capstan for tape handling system. 3,468,497, 9-23-69, Cl. 242-172.
Kelley, John J.: *See—*
Bouvier, Francis L.; Carlson, Roy C., Jr.; Higgins, Charles W.; Smith Norman F.; and Kelley, John J.,3,438,155.
Duddy, Joseph C.; Arms, John T.; and Kelley, John J.,3,479,223.
Kelley, Joseph M.: *See—*
Marinaccio, Paul J.; and Kelley, Joseph M.,3,472,805.
Marinaccio, Paul J.; and Kelley, Joseph M.,3,481,897.
Kelley, Joseph P.: *See—*
Chamberlin, Henry S., Jr.; Graves, Roger E., Jr.; and Kelley, Joseph P.,3,454,942.
Kelley, Kork, 1/2 to Kelley, Robert K. Method and apparatus for effecting gas control in oil wells. 3,451,477, 6-24-69, Cl. 166-265.
Kelley, Lawrence W.: *See—*
Lewis, Albert; Robbins, David L.; and Kelley, Lawrence W.,3,484,259.
Kelley, Lonny R.: *See—*
Boothe, Willis A.; Ringwall, Carl G.; and Kelley, Lonny R.,3,461,892.
Kelley, Neal. Garment hanging device. 3,441,147, 4-29-69, Cl. 211-113.
Kelley, Paul D., to Borg-Warner Corporation. Signal device. 3,485,201, 12-23-69, Cl. 116-63.
Kelley, Philip C., to Goodrich, B. F., Company, The. Natural rubber containing η-alkyl amine phosphate salts. 3,480,690, 11-25-69, Cl. 260-814.
Kelley, Robert K.: *See—*
Kelley, Kork, 3,451,477.
Kelley, Theron R., to Tedan, Inc. Elastomer drive unit. 3,422,637, 1-21-69, Cl. 64-13.
Kelley, Theron R., to Tedon, Inc. Vibration and shock absorption mounting. 3,448,949, 6-10-69, Cl. 248-9.
Kelley, Theron R., to Tedan, Inc. Sleeve bearing. 3,460,875, 8-12-69, Cl. 308-238.
Kelley, Thomas H.: *See—*
Sporck, Claus L.; Kelley, Thomas H.; and Lombardo, Samuel J.,3,453,854.
Kelley, Thomas Ray, to I-T-E Circuit Breaker Company. Control circuit for controlling duty of a plurality of D-C sources. 3,437,826, 4-8-69, Cl. 307-11.
Kelley, Thomas Ray, to I-T-E Imperial Corporation, mesne. Voltage regulator circuit. 3,459,957, 8-5-69, Cl. 307-71.
Kelley, Thomas Ray, to I-T-E Imperial Corporation, mesne. Performance monitor for rectifier cells. 3,462,754, 8-19-69, Cl. 340-253.
Kellicutt, Keith Q. Method and apparatus for producing faced corrugated materials. 3,425,888, 2-4-69, Cl. 156-593.
Kelling, Leroy U. C., to General Electric Company. Velocity control system. 3,428,792, 2-18-69, Cl. 235-151.11
Kelling, Leroy U. C., to General Electric Company. Absolute feedrate velocity control for multiaxes pulse responsive servo using all digital circuitry. 3,428,876, 2-18-69, Cl. 318-18.

Kelling, Leroy U. C., to General Electric Company. Offset compensation for numerical controls. 3,449,554, 6-10-69, Cl. 235-151.11
Kellman, Irving H., to Sandell Manufacturing Company, Inc. Expansion joint. 3,470,662, 10-7-69, Cl. 52-99.
Kellner, Ferdinand. Bearing device for straight-line guiding of objective components. 3,472,564, 10-14-69, Cl. 308-4.
Kellner, George D.: *See—*
Brown, Ford G.; Davies, Robert W.; and Kellner, George D.,3,420,511.
Kellner, Maximilian: *See—*
Von Horst, Louis Anton Freiherr; and Kellner, Maximilian,3,436,319.
Kellogg Company: *See—*
Jobin, Ralph A., 3,453,118.
Macy, Robert L., Jr., 3,462,281.
McKinney, James C., 3,443,740.
Slaybaugh, Lyle, 3,480,445.
Kellogg, Hudson W.: *See—*
Jones, John T.; Ludt, William C.; and Kellogg, Hudson W.,3,485,598.
Ludt, William C.; and Kellogg, Hudson W.,3,456,492.
Kellogg, John F.: *See—*
Shaw, John S.; Dostel, John J.; White, Donald K.; Elste, Edwin S.; Kellogg, John F.; and O'Neale, John D.,3,460,827.
Kellogg, Langdon C., to Kellogg's Health Products Inc. Exercising apparatus. 3,455,295, 7-15-69, Cl. 128-25.
Kellogg's Health Products Inc.:*See—*
Kellogg, Langdon C., 3,455,295.
Kellwood Company: *See—*
Bregenzer, Robert N.; and Arnold, Amy J., 3,486,507.
Russell, Ralph W., 3,440,665.
Kelly, Andrew J.: *See—*
Hundt, Donald D.; and Kelly, Andrew J.,3,475,201.
Kelly, Austin T.: *See—*
Goitiandia, Peter; and Kelly, Austin T.,3,439,181.
Kelly, Calvin E.; and Nicely, Thomas E., to United States Steel Corporation. Roll seal for vacuum strip-treating chamber. 3,467,399, 9-16-69, Cl. 277-237.
Kelly, Charles A.; and Pierson, Roland L., to International Business Machines Corporation. Apparatus for indicating the transient response of circuit elements. 3,443,227, 5-6-69, Cl. 324-158.
Kelly, Cornelius James Noel; and Knott, Robert Franklin, to Canadian Industries Limited. Aqueous slurry explosive composition containing a chlorinated organic compound as sensitizer. 3,431,154, 3-4-69, Cl. 149-38.
Kelly, Daniel Allcott; and Bernard, John E., Jr. Five-way hingeless ventilator. 3,456,571, 7-22-69, Cl. 98-2.
Kelly, Donald A. Compound rotary engines. 3,426,735, 2-11-69, Cl. 123-16.
Kelly, Donald A. High compression rotary I.C. engine. 3,452,725, 7-1-69, Cl. 123-16.
Kelly, Donald A. Radial rotary-dual mode-internal combustion engine. 3,461,849, 8-19-69, Cl. 123-16.
Kelly, Donald A. Multiple piston vane rotary internal combustion engine. 3,464,395, 9-2-69, Cl. 123-16.
Kelly, Donald A. Compound vane rotary internal combustion engine. 3,478,728, 11-18-69, Cl. 123-16.
Kelly, Donald A. High compression radial/rotary I.C. engine. 3,486,487, 12-30-69, Cl. 123-16.
Kelly, Donald H., to Chemagro Corporation. Manufacture of bis(1,2,2-trichloroethyl) sulfide. 3,470,255, 9-30-69, Cl. 260-609.
Kelly, Douglas E., to Dole Valve Company, The. Unbalanced sleeve thermostat. 3,448,921, 6-10-69, Cl. 236-34.
Kelly, Douglas E.; and Obermaier, Frank E., to Dole Valve Company, The. Vacuum operated brake system. 3,420,579, 1-7-69, Cl. 303-13.
Kelly, Edgar J., to American Colloid Company. Batch-compounding of comminuted materials. 3,473,788, 10-21-69, Cl. 259-149.
Kelly, Edwin F.; and Thomas, Frank J., to Kell-Dot Industries, Inc. Method for producing an expanded food product from cereal grain. 3,458,322, 7-29-69, Cl. 99-82.
Kelly, Franklin G.; and Acton, Donald J., to TRW Inc. Circuit module and assembly. 3,459,999, 8-5-69, Cl. 317-101.
Kelly, Fred, and Sons(Proprietary)Limited: *See—*
Kelly, Frederick Christopher, 3,464,539.
Kelly, Frederick Christopher, to Kelly, Fred, and Sons(Proprietary)Limited. Screw conveyors. 3,464,539, 9-2-69, Cl. 198-214.
Kelly, Gerald W., to Wilson Engineering, Inc. Shock absorber testing apparatus. 3,427,860, 2-18-69, Cl. 73-11.
Kelly, Gerald W. Thread cutting device. 3,458,882, 8-5-69, Cl. 10-141.
Kelly, Harlan H., to Uniroyal, Inc. Road debris-simulating devices for testing tires. 3,455,156, 7-15-69, Cl. 73-146.
Kelly, Harlan J.: *See—*
Nissen, George P.; Stuckenschneider, Emil C.; and Kelly, Harlan J.,3,473,801.
Kelly, Hugh P., to Bell Telephone Laboratories, Incorporated. Time division multiplexing of audio and video signals. 3,423,520, 1-21-69, Cl. 178-5.6
Kelly, James A., Jr.; and McLaughlin, Daniel A. Mid-span service attachment for secondary distribution system. 3,474,183, 10-21-69, Cl. 174-41.
Kelly, James A.; and Teal, James L., to Dow Chemical Company, The. Preventing fouling of electrodes. 3,448,018, 6-3-69, Cl. 204-1.
Kelly, James A.: *See—*
Goodenough, Robert D.; and Kelly, James A.,3,423,187.
Hamilton, Charles E.; Teal, James L.; and Kelly, James A.,3,442,802.
Noddings, Charles R.; and Kelly, James A.,3,438,602.
Kelly, James M.: *See—*
Lipowski, Stanley A.; and Kelly, James M.,3,442,859.
Lipowski, Stanley A.; and Kelly, James M.,3,480,379.
Kelly, James M., to Bell Telephone Laboratories, Incorporated. Vocoder system. 3,448,216, 6-3-69, Cl. 179-1.
Kelly, James W. Process for conditioning a hard snow or ice- like snow covered ski slope and apparatus therefor. 3,463,548, 8-26-69, Cl. 299-10.
Kelly, Jean, to Compagnie de Saint-Gobain. Baffle element for glass drawing apparatus. 3,475,152, 10-28-69, Cl. 65-193.
Kelly, Joe T.: *See—*
Lutz, Eugene F.; Kelly, Joe T.; and Hall, David W.,3,481,994.
Kelly, John B., to RCA Corporation. Magnetic tape transport head assembly with azimuth adjustment. 3,457,556, 7-22-69, Cl. 340-174.1
Kelly, John, Jr., to Mobil Oil Corporation. Rotary drilling of wells. 3,461,980, 8-19-69, Cl. 175-70.
Kelly, John, Jr., to Mobil Oil Corporation. Lost circulation control. 3,467,208, 9-16-69, Cl. 175-72.
Kelly, Margaret A.: *See—*
Schlobohm, Roland T.; and Kelly, Margaret A.,3,438,898.
Kelly, Maurice W. Method and apparatus for making dental die. 3,470,614, 10-7-69, Cl. 32-11.
Kelly, Michael J.; and Rekiere, Bernard J., to Automatic Electric Laboratories, Inc. Nonlinear PCM encoder having few analog-to-quantized signal comparisons with respect to the period of the PCM signal generated. 3,452,297, 6-24-69, Cl. 332-9.
Kelly, Michael J.; and Rekiere, Bernard J., to Automatic Electric Laboratories, Inc. Reusable data planes for solenoid array memory systems. 3,461,439, 8-12-69, Cl. 340-174.
Kelly, Norman A., to Haskon, Inc. Container filling machine. 3,445,984, 5-27-69, Cl. 53-59.
Kelly, O. S., Company, The: *See—*
Ultes, Carl, Jr., 3,461,768.
Kelly, Patrick McAvoy: *See—*
Hackett, Clarence Bertram; Kelly, Patrick McAvoy; and MacGilchrist, John,3,453,156.
Kelly, Patrick McAvoy; and Patton, Robert, to Imperial Chemical Industries Limited. Production of organosilicon compounds. 3,474,123, 10-21-69, Cl. 260-448.2
Kelly, Peter B., to Jefferson Chemical Company, Inc. Sealants for structural members. 3,422,054, 1-14-69, Cl. 260-37.
Kelly, Peter Bernard, to Formica Corporation. Printing ink comprising a dispersion of a pigment and a binder in an inert organic solvent wherein the binder is a blend of a methacrylate polymer and polyvinylidene fluoride. 3,454,518, 7-8-69, Cl. 260-31.4
Kelly, Peter W., to Barber-Colman Company. Hobbing machine for cutting special gear tooth forms such as crowned or tapered teeth. 3,469,495, 9-30-69, Cl. 90-4.
Kelly, Ralph C. Double rear view mirrors for vehicles. 3,424,424, 1-28-69, Cl. 248-486.
Kelly, Richard L., to Gulf Oil Corporation. Olefin polymer compositions containing 4-oxa-17- hexacosenamide. 3,453,227, 7-1-69, Cl. 260-32.6
Kelly, Robert J., to Uniroyal, Inc. Polymerization catalyst and method for the polymerization of olefins. 3,444,149, 5-13-69, Cl. 260-80.78
Kelly, Robert J.: *See—*
Loveless, Frederick C.; and Kelly, Robert J.,3,448,174.
Kelly, Stanley R.; and Smith, John M., to Ensign-Bickford Company, The. Dormant explosive device. 3,435,764, 4-1-69, Cl. 102-27.
Kelly, Thomas M.; Mielenz, Richard C.; and Peppler, Richard B., to Martin-Marietta Corporation. Hydraulic cement mix containing saccharide polymers. 3,432,317, 3-11-69, Cl. 106-92.
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A., to Martin-Marietta Corporation. Hydraulic cement mix and additive. 3,432,316, 3-11-69, Cl. 106-90.
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A., to Martin-Marietta Corporation. Hydraulic cement composition and additive. 3,485,649, 12-23-69, Cl. 106-90.
Kelly, Walter R.: *See—*
Hartford, Winslow H.; and Kelly, Walter R.,3,438,724.
Kelly, William A.: *See—*
Holland, Frederick Anthony; McCrimlisk, Gerard Joseph; and Kelly, William A.,3,420,857.
Kelly, William D. Multiconductor cable and method of forming the same. 3,422,214, 1-14-69, Cl. 174-103.
Kelly, William D. Method of making an armored cable. 3,430,337, 3-4-69, Cl. 29-624.

Kelly, William E., to Thomas & Betts Corporation. Ground connector. 3,448,430, 6-3-69, Cl. 339-143.
Kelly, William J.; and Bickford, Dudley V., to Textron, Inc., mesne. Testng device for antifriction bearings or the like. 3,427,865, 2-18-69, Cl. 73-67.
Kelly, William J.; and Christian, Allen J. Salt bath furnace. 3,485,232, 12-23-69, Cl. 126-360.
Kelly-Springfield Tire Company, The: *See*—
Miller, Edwin C., 3,483,911.
Kelm, Everett F., to Corning Glass Works. Electrical radiant heating unit. 3,471,680, 10-7-69, Cl. 219-342.
Kelm, Walter H., to General Electric Company. Adjustable cutting tool. 3,486,401, 12-30-69, Cl. 77-58.
Kelmar, John J. Blast furnace method. 3,460,934, 8-12-69, Cl. 75-25.
Kelsall, Avery Crowell: *See*—
Herp, Henry Carl, Jr.; Kelsall, Avery Crowell; Bowker, Gordon Stanley; and Bennett, Hilton Alvin, Jr.,3,453,087.
Kelsall, Avery Crowell, to Girdler Corporation. Means for conducting endothermic catalytic reactions, including electrical heating means. 3,479,143, 11-18-69, Cl. 23-288.
Kelsall, Dennis, to United States of America, Army, mesne. Scanner having rotating double- sided reflector. 3,443,110, 5-6-69, Cl. 250-220.
Kelsey, Cadwallader W., to Skycar, Inc. Flight control for vertical take-off aircraft. 3,429,528, 2-25-69, Cl. 244-12.
Kelsey, Christopher G., to Data Resolved Tools Pty. Ltd. Model to die reversal means and method. 3,446,116, 5-27-69, Cl. 90-13.5
Kelsey, Ernest S.; and Whitaker, Stuart H., to Northern Electric Company, Limited. Binary random number generator using switching tree and wide-band noise source. 3,423,683, 1-21-69, Cl. 328-61.
Kelsey, Eugene L.: *See*—
Holt, Hugh M.; Kelsey, Eugene L.; and Mills, Stacey M.,3,434,033.
Kelsey, Royal W.: *See*—
Crooks, Donald D.; Kelsey, Royal W.; and Sumsion, Henry T.,3,425,116.
Kelsey, Royal W.; Crooks, Donald D.; and Sumsion, Henry T., to United States of America, Navy, mesne. Alloys for improving properties of graphite. 3,436,253, 4-1-69, Cl. 117-160.
Kelsey-Hayes Company: *See*—
Ainsworth, Laine J., 3,472,349.
Ayers, David T., Jr., 3,486,800.
Ferris, Franklyn C., 3,465,712.
Hollnagel, Harold S.; and Hollnagel, Harold E., 3,456,767.
Hollnagel, Harold S.; and Hollnagel, Harold E., 3,463,274.
Holmes, Romayne E., Jr., 3,455,607.
Holmstrom, Roy C., 3,432,207.
Miles, Chester W., 3,485,325.
Riordan, Hugh E., 3,482,129.
Robinette, Richard T., 3,424,276.
Robinette, Richard T., 3,425,523.
Soltis, Peter J., Jr., 3,463,275.
Stelzer, William, 3,423,936.
Stelzer, William, 3,480,333.
Swift, Harvey C., 3,424,274.
Swift, Harvey C., 3,433,328.
Swift, Harvey C., 3,433,333.
Kelso, Rai B. Precast concrete body. 3,472,031, 10-14-69, Cl. 61-39.
Kelver, William L.: *See*—
Allison, Kenneth C.; and Kelver, William L.,3,433,120.
Kelvinator, Inc.: *See*—
Guy, William R., 3,462,584.
Hopkins, Leland G., 3,450,125.
Huff, Herbert G., 3,451,389.
Huff, Herbet G.; and Shelly, Donald J., 3,433,213.
Kauranen, Herbert A., 3,474,226.
Wilson, William E., 3,452,576.
Kelyman, Jacqueline S.: *See*—
Reifschneider, Walter; and Kelyman, Jacqueline S.,3,483,244.
Kelyman, Jacqueline S., to Dow Chemical Company, The. Substituted phenyl thiazole compounds. 3,462,448, 8-19-69, Cl. 260-302.
Kelyman, Jacqueline S., to Dow Chemical Company, The. Certain substituted 2-pyridyl carbamates. 3,475,440, 10-28-69, Cl. 260-294.8
Kem-Wove Industries, Inc.: *See*—
Hamilton, Milon J.; Baigas, Joseph F., Jr.; Haynes, John T.; and Coates, Herbert W., 3,459,631.
Kember, Bryan F., to Ampex Corporation. Differential pressure web transport. 3,451,637, 6-24-69, Cl. 242-75.5
Kemble, Herbert A.; and Rigg, Camden A., to Bendix-Westinghouse Automotive Air Brake Company. Two compartment reservoir. 3,456,686, 7-22-69, Cl. 137-576.
Kemble, Herbert A.: *See*—
Valentine, Harry M.; Stoudt, George W.; and Kemble, Herbert A.,3,456,991.
Kemenczky, Miklos, to Guilden, Paul. Heat-rotated illuminated ornament. 3,435,201, 3-25-69, Cl. 240-10.1
Kemeny, George A.; Franzen, Wayne E.; Maniero, Daniel A.; and Bruning, Armin M., to Westinghouse Electric Corporation. Coaxial arc heater with variable arc length. 3,474,279, 10-21-69, Cl. 313-231.
Kemeny, George A.; and Kienast, Peter F., to Westinghouse Electric Corporation. Method of and apparatus for establishing and maintaining an atomosphere controlled as to pressure, temperature, gas content and rate of gas flow, and closed and semi-closed arc heater loop apparatus for use therein. 3,461,190, 8-12-69, Cl. 263-52.
Kemeny, George A.: *See*—
Wolf, Charles B.; and Kemeny, George A.,3,452,239.
Wolf, Charles B.; Kemeny, George A.; and Fey, Maurice G.,3,480,717.
Kemeny, Julius: *See*—
Joseph, Raymond S.; Kemeny, Julius; and Highland, Andrew, Jr.,3,457,892.
Taylor, Charles E.; and Kemeny, Julius,3,484,696.
Kemlite Corporation: *See*—
Morse, Donald B.; and Menzer, Alfred B., 3,480,497.
Kemmerer, John L., Jr.; and Buschow, Edward G., to Salem-Brosius, Inc. Methods and apparatus for the continuous treat- ment of non-caking coal and other discrete materials. 3,470,068, 9-30-69, Cl. 201-33.
Kemmerer, John L., Jr.; and Buschow, Edward G., to Salem-Brosius, Inc. Rotary heat treating oven. 3,475,286, 10-28-69, Cl. 202-117.
Kemmetmueller, Roland, to Waagner-Biro A.G. Steam generating system and method. 3,460,518, 8-12-69, Cl. 122-7.
Kemmler, Sigmund: *See*—
Stahlecker, Fritz; and Kemmler, Sigmund,3,447,305.
Kemonth, Alton S.: *See*—
Zadron, Emil; and Kemonth, Alton S.,3,439,689.
Kemp, C. M., Manufacturing Company, The: *See*—
Riley, Joseph R., 3,464,573.
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J. Hair curler oven and method of curling hair. 3,430,635, 3-4-69, Cl. 132-7.
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J. Hair roller heating apparatus. 3,454,318, 7-8-69, Cl. 312-31.
Kemp, Clarence G., to General Motors Corporation. Molding installation. 3,478,476, 11-18-69, Cl. 52-208.
Kemp, Ingrid L.: *See*—
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J.,3,430,635.
Kemp, Charles L.; Kemp, Ingrid L.; Hartwick, Donald J.; and Hartwick, Gloria J.,3,454,318.
Kemp, Ivor Frederick, to National Research Development Corporation. Agricultural and like machines. 3,473,614, 10-21-69, Cl. 171-61.
Kemp, Jacob D.; Langlois, Gordon E.; and Olson, Lloyd J., to Chevron Research Company. Solvent demetalation of a hydrocarbon oil. 3,434,963, 3-25-69, Cl. 208-252.
Kemp, Jacob D.: *See*—
Sieg, Robert P.; and Kemp, Jacob D.,3,482,952.
Kemp, Kenneth Albert Walters, to C.A.V. Limited. Liquid fuel pumping apparatus for supplying fuel to internal combustion engines. 3,427,979, 2-18-69, Cl. 103-2.
Kemp, Kenneth Albert Walters, to C.A.V. Limited. Liquid fuel injection pumps. 3,433,159, 3-18-69, Cl. 103-2.
Kemp, Kenneth Albert Walters, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,433,160, 3-18-69, Cl. 103-37.
Kemp, Kenneth Albert Walters, to C. A. V. Limited. Liquid fuel pumping apparatus. 3,437,042, 4-8-69, Cl. 103-2.
Kemp, Kenneth Albert Walters, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,460,479, 8-12-69, Cl. 103-5.
Kemp, Kenneth Albert Walters, to C.A.V. Limited. Pressure regulating valves. 3,476,134, 11-4-69, Cl. 137-115.
Kemp, Kenneth Albert Walters; and Wheeler, Terence Redvers, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,476,050, 11-4-69, Cl. 103-2.
Kemp, Kenneth Albert Walters; and Wheeler, Terence Redvers, to C.A.V., Limited. Liquid fuel pumping apparatus. 3,485,175, 12-23-69, Cl. 103-5.
Kemp, Kenneth L.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,427,097.
Kemp, Norman H. Pressure testing device for pipe and gauges. 3,460,376, 8-12-69, Cl. 73-49.5
Kemp, Paul G., to Kemp Products Incorporated, mesne. All-plastic bottles. 3,478,913, 11-18-69, Cl. 215-100.
Kemp Products Incorporated: *See*—
Kemp, Paul G., 3,478,913.
Kemp, Wayne T., to Caloric Corporation. Main top and surface burner construction. 3,455,290, 7-15-69, Cl. 126-39.
Kemp, Willard E.: *See*—
Coyle, Edward L.; and Kemp, Willard E.,3,486,241.
Kemp, Willard E.; and Grim, David P., to ACF Industries, Incorporated. Apparatus and method for unloading railway freight cars. 3,471,043, 10-7-69, Cl. 214-44.

Kemper, Arthur L., to Collins Radio Company. Chime generator circuit for a P. A. amplifier. 3,465,262, 9-2-69, Cl. 331-109.
Kemper, Clyde A.: *See—*
Cover, Ralph; and Kemper, Clyde A.,3,427,004.
Kemper, Clyde, to United Company, The. Screw wrench device. 3,424,212, 1-28-69, Cl. 145-50.
Kemper, Eugene L.: *See—*
Upton, Norman W.; Kemper, Eugene L.; and Brummel, Roger L.,3,459,313.
Kemper, James M., to Lyn-Bar Enterprises. Hydro-massage unit. 3,461,862, 8-19-69, Cl. 128-66.
Kemper, James M., 1/2 to Whann, R. Welton. Cabin pressure regulator. 3,485,161, 12-23-69, Cl. 98-1.5
Kempers, Herbert: *See—*
Biegler, Hanns; Neugebauer, Walter; and Kempers, Herbert,3,423,184.
Kempf, Gerhard, to Siemens Aktiengesellschaft. Method and device for correcting axial astigmatism of corpuscular-ray-optical lenses. 3,469,097, 9-23-69, Cl. 250-49.5
Kempf, Raymond A., to Bell Telephone Laboratories, Incorporated. Coaxial cables. 3,452,319, 6-24-69, Cl. 339-97.
Kempf, Raymond A., to Bell Telephone Laboratories, Incorporated. Coaxial cables. 3,452,320, 6-24-69, Cl. 339-97.
Kempher, Thomas J.: *See—*
Spengler, Harold H.; and Kempher, Thomas J.,3,446,725.
Kempic, Joseph A.: *See—*
Woermbke, James D.; and Kempic, Joseph A.,3,474,454.
Kempin, Karl: *See—*
Bensinger, Wolf-Dieter; Derndinger, Hans-Otto; Zeilinger, Karl; Bader, Hans; and Kempin, Karl,3,481,312.
Kempner, Wilhelm: *See—*
Kreienbaum, Hubert; and Ahler, Wilhelm, 3,474,610.
Kemptener Maschinenfabrik G.m.b.H.: *See—*
Flach, Rolf; and Krause, Fritz, 3,479,976.
Kempton, William E., to Goodyear Tire & Rubber Company, The. Selective removal of cyclopentadiene from a mixture containing at least one other hydrocarbon. 3,439,060, 4-15-69, Cl. 260-681.5
Ken-Vac Corporation: *See—*
Kenyon, Robert L.; and Thompson, Donald, 3,434,173.
Kenaga, Duane L., to Dow Chemical Company, The. Method of treating paper with ethylenimine derivatives using a boron trifluoride-amine complex catalyst. 3,428,484, 2-18-69, Cl. 117-155.
Kenaga, Eugene E., to Dow Chemical Company, The. Bromodifluoronitromethane for control of insects, fungi and nematodes. 3,445,576, 5-20-69, Cl. 424-349.
Kenat, Joachim: *See—*
Bloch, Moshe Rudolf; Schnerb, Isaac; and Kenat, Joachim,3,484,198.
Kenat, Joachim, to Dead Sea Works Limited. Bromine production. 3,437,444, 4-8-69, Cl. 23-216.
Kenbert Lighting Industries, Inc.: *See—*
Robinson, Stuart E., 3,473,016.
Kenco Coffee Company Limited, The: *See—*
Moon, Anthony James Robertson; and Champion, Ronald Cheyney, 3,427,952.
Kendale Industries, Inc.: *See—*
Breisch, John H.; and Biermann, Arnold E., 3,463,279.
Hoffman, George J.; and Abella, James E., 3,463,280.
Kendall Company, The: *See—*
Alexander, Robert R., 3,459,592.
Egler, Vernon C., 3,459,618.
Ericson, Richard E., 3,424,151.
Ericson, Richard E., 3,429,314.
Ericson, Richard E., 3,435,827.
Ericson, Richard E., 3,438,375.
Ericson, Richard E.; and McWhorter, Daniel M., 3,482,576.
Fischer, John L.; and Mack, Robert J., 3,438,371.
Knohl, Herbert, 3,425,246.
Knohl, Herbert, 3,443,404.
Knohl, Herbert; and Hoey, Raymond M., 3,453,843.
Knohl, Herbert, 3,461,695.
Kumin, Victor M., 3,438,844.
Lester, Claude E., 3,468,273.
Marshall, Preston, F., 3,438,186.
Marshall, Preston F., 3,458,988.
Marshall, Preston F., 3,477,220.
Neckerman, William G., 3,482,609.
Newman, Nicholas S., 3,459,579.
Paulig, Konrad W.; and Olson, Arthur R., 3,476,638.
Samour, Carlos M., 3,483,155.
Scheier, Stanley C., 3,424,161.
Scheier, Stanley C., 3,468,746.
Stanley, Leonard A., 3,473,885.
Steinbock, Fred C., 3,443,736.
Thoennes, Lawrence A., 3,435,825.
Kendall, Earl W., to Rohr Corporation. Electrolytic descaling of titanium and its alloys. 3,468,774, 9-23-69, Cl. 204-141.
Kendall, Edward R., to Simoniz Company. Adhesive mass substantially free of surface tack. 3,423,342, 1-21-69, Cl. 260-22.
Kendall, Florence P.: *See—*
Kendall, Henry O.; and Kendall, Florence P.,3,433,221.
Kendall, George W.: *See—*
Hough, Dean R., 3,478,582.
Kendall, Henry O.; and Kendall, Florence P. Shoulder supported arm sling. 3,433,221, 3-18-69, Cl. 128-94.
Kendall, James M., Sr.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,461,290.
Kendall, James R., to Monsanto Company. Vinyl siding bracket. 3,458,962, 8-5-69, Cl. 52-309.
Kendall, Jerry A.: *See—*
Sitzler, Fred C.; Kendall, Jerry A.; and Berg, Quentin,3,430,185.
Kendall, Kenneth J.; and Yurasek, John F., to Bendix Corporation, The. Rotational straight display line generator. 3,471,742, 10-7-69, Cl. 315-18.
Kendall, Louis F., Jr.; and Bredt, James H., to General Electric Company. Single phase lead telluride. 3,480,554, 11-25-69, Cl. 252-62.3
Kendall, Maureen S.: *See—*
Murray, Edward D.; and Kendall, Maureen S.,3,482,997.
Kendall Refining Company: *See—*
Lawrence, Franklin I. L.; and Pohorilla, Michael J., 3,455,823.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., 3,455,825.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., 3,455,828.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., 3,455,829.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., 3,455,830.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., 3,455,833.
Lawrence, Franlin I. L.; and Pohorilla, Michael J., 3,455,824.
Kendall, Robert T.: *See—*
Harker, James Lincoln; and Kendall, Robert T.,3,465,206.
Kendall, Svava. Pleat sewing guide. 3,430,591, 3-4-69, Cl. 112-146.
Kendall, William Denis, to Dynapower Systems Corporation of California. Body load sensitive electrotherapeutic equipment. 3,457,924, 7-29-69, Cl. 128-404.
Kendall-Smith, Brian John: *See—*
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah,3,422,035.
May, Herbert; Kendall-Smith, Brian John; Dodd, John Alan; and Instone, Alan Thomas,3,442,867.
May, Herbert; Kendall-Smith, Brian John; and Spensley, Robert Hardy,3,449,267.
May, Herbert; Kendall-Smith, Brian John; and Dodd, John Alan,3,451,967.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah,3,474,074.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah,3,480,590.
Kende, Andrew Steven: *See—*
Church, Robert Fitz Randolph; Kende, Andrew Steven; and Weiss, Martin Joseph,3,438,973.
Kendig, Paul M.: *See—*
Bringman, Joseph M.; Lawther, James M.; and Kendig, Paul M.,3,435,409.
Kendig, Robert M.: *See—*
Vitt, Leonard P.; and Kendig, Robert M.,3,461,280.
Kendrey Manufacturing Co.: *See—*
Kentfield, Lucius H., 3,476,423.
Kendrick, Thomas C.: *See—*
Davies, William G.; Elliott, Brian; and Kendrick, Thomas C.,3,481,898.
Kendrick, William P.: *See—*
Lubowitz, Hyman R.; Ogren, John R.; and Kendrick, William P.,3,423,317.
Kendzia, Norbert A. Screed support. 3,451,179, 6-24-69, Cl. 52-370.
Keng, Edward Y. H., to Georgia Tech Research Institute. Method and apparatus for volume measurement. 3,453,881, 7-8-69, Cl. 73-149.
Keng-Seeley Thermos Co.: *See—*
Bergsma, Rudolph, 3,465,434.
Kengelbach, Werner Ludwig: *See—*
Beckmann, Wilhelm; Kengelbach, Werner Ludwig; Metzger, Horst; and Pape, Martin,3,476,669.
Kenichi, Nagai: *See—*
Okubo, Kinji; Honjo, Satoru; and Nagai, Toshihiko,3,431,412.
Kenna, Fenton L., Jr.: *See—*
Barrett, Monroe C.; Kenna, Fenton L., Jr.; Nickla, Louis E.; and Clendenin, Wilbur H.,3,455,466.
Clendenin, Wilbur H.; Barrett, Monroe C.; Kenna, Fenton L, Jr.; and Fachini, Robert M.,3,446,370.
Graham, Robert L.; Fachini, Robert M.; and Kenna, Fenton L., Jr.,3,478,898.
Nickla, Louis E.; Barrett, Monroe C.; and Kenna, Fenton L., Jr.,3,441,152.
Kennametal Inc.: *See—*
Carlstedt, Ragnar L., 3,477,490.
Kennard, Kenneth C.: *See—*
Burness, Donald M.; Kennard, Kenneth C.; and Cossar, Bernard C.,3,453,281.

Kennard, Thomas A. Fluid conduit valve. 3,433,252, 3-18-69, Cl. 137-496.
Kennecott Copper Corporation: *See*—
Beals, George C.; Ogilvie, Kendal M.; and Mulholland, Lyle E., 3,436,068.
Chopra, Kasturi, 3,463,667.
Chopra, Kasturi L., 3,463,663.
Debelius, Joseph Russell, 3,482,910.
Denny, Jere Robert; and Krishnaswamy, Deenahalli S., 3,457,065.
Fick, Hans H.; and Crosser, Ralph W., Jr., 3,471,010.
Furness, William H., 3,428,731.
Graham, John R.; and Mabson, Algernon A., 3,456,371.
Lefler, Clarence Arthur; and Mittelstadt, Gerald D., 3,479,020.
Michaelson, Stanley D., 3,452,938.
Platzke, Ronald N.; and Prater, John D., 3,458,277.
Redman, Michael J., 3,423,326.
Spedden, Henry Rush; and Schellinger, Alfred Kenneth, 3,436,176.
Spedden, Henry Rush; and Schellinger, Alfred Kenneth, 3,436,177.
Spedden, Henry Rush; and Malouf, Emil E., 3,476,554.
Wang, Chih-Chung, 3,474,009.
Whitham, Latham E., 3,477,593.
Kennecott Sales Corporation: *See*—
Neumann, Norbert F., 3,421,569.
Kennedy, Al: *See*—
Chaille, James L.; Niederhauser, Warren D.; and Kennedy, Al,3,427,297.
Kennedy, Carl D., to Continental Oil Company. Preparation of polyoxymethylene using metal acetylacetonate polymerization catalysts. 3,457,227, 7-22-69, Cl. 260-67.
Kennedy, Clifford F.; and Shelton, Thomas M., to North American Rockwell Corporation. Tube tapering roller chuck. 3,431,764, 3-11-69, Cl. 72-78.
Kennedy, Clifford F.: *See*—
Hodgson, Richard W.; Kennedy, Clifford F.; and Poarch, Charles T.,3,484,679.
Kennedy, Daniel M., Jr., to Celanese Corporation. Method for imparting coatability to polyoxymethylene compositions. 3,485,910, 12-23-69, Cl. 264-129.
Kennedy, David Rankine: *See*—
Abbott, Terence A.; Clachan, Margaret L.; Kennedy, David Rankine; McIntyre, Ian S.; and Shephard, Basil R.,3,447,947.
Kennedy, Eugene F.: *See*—
Starks, Charles M.; and Kennedy, Eugene F.,3,428,692.
Kennedy, Frank, to United States Steel Corporation. Shock absorbing device transferring impact forces directly to the track bed. 3,443,523, 5-13-69, Cl. 104-1.
Kennedy, Frank, to United States Steel Corporation. Resiliently supported railway car wheel drive mechanism. 3,443,527, 5-13-69, Cl. 105-136.
Kennedy, Frank, to United States Steel Corporation. Gas circulating separator. 3,443,800, 5-13-69, Cl. 263-47.
Kennedy, George Charles, to General Electric Company. Electrically conductive tool and method for making. 3,433,730, 3-18-69, Cl. 204-291.
Kennedy, George D. Fish pole. 3,421,248, 1-14-69, Cl. 43-24.
Kennedy, George E.; and Manganello, Samuel J., to United States Steel Corporation. Method of producing metal laminate composites. 3,475,812, 11-4-69, Cl. 29-472.3
Kennedy, George J.: *See*—
Hunter, William H.; and Kennedy, George J.,3,443,425.
Kennedy, Houston E.: *See*—
Bell, Fred H.; and Kennedy, Houston E.,3,454,329.
Kennedy, Howard L., to Motorola, Inc. Precision pulse decoder. 3,462,740, 8-19-69, Cl. 340-167.
Kennedy, Howard L., to Motorola, Inc. Multiple power pulse generation. 3,479,532, 11-18-69, Cl. 307-260.
Kennedy, Jack R. Spring tooth mounting. 3,469,637, 9-30-69, Cl. 172-709.
Kennedy, James A., Jr.: *See*—
Sirota, Julius; and Kennedy, James A., Jr.,3,473,932.
Kennedy, James D., to AAI Corporation. Sequential test apparatus for electrical circuits including a digital controlled analog test signal generating unit. 3,487,304, 12-30-69, Cl. 324-73.
Kennedy, James J.: *See*—
Greeson, James C., Jr.; and Kennedy, James J.,3,452,217.
Kennedy, James J., to International Business Machines Corporation. Variable gain differential direct current amplifier. 3,452,292, 6-24-69, Cl. 330-30.
Kennedy, James M.; and King, James R., to Collins Radio Company. Control system for direct current motor. 3,453,517, 7-1-69, Cl. 318-257.
Kennedy, James M.: *See*—
Sanders, Davis H.; and Kennedy, James M.,3,437,043.
Sanders, Davis H.; and Kennedy, James M.,3,437,044.
Kennedy, John K.; and Moates, Guy H., to United States of America, Air Force. Continuous floating zone refining system. 3,453,370, 7-1-69, Cl. 13-26.
Kennedy, John R. Stabilizer bar. 3,454,308, 7-8-69, Cl. 308-4.
Kennedy, Joseph B., to Hughes Aircraft Company. Slow-wave structure encasing envelope with matching thermal expansion properties. 3,435,273, 3-25-69, Cl. 313-283.
Kennedy, Joseph C.; and Sorg, John H., Jr., to International Business Machines Corporation. Burst error detector. 3,465,287, 9-2-69, Cl. 340-146.1
Kennedy, Joseph P.: *See*—
Borzel, Paul; and Kennedy, Joseph P.,3,484,423.
Kennedy, Joseph P., to Esso Research and Engineering Company. Polymerization catalyst system. 3,426,007, 2-4-69, Cl. 260-85.3
Kennedy, Joseph W. Mathematical model. 3,468,038, 9-23-69, Cl. 35-34.
Kennedy, Kurt David; and Smith, Hugh R., Jr., to Air Reduction Company, Incorporated. Powder crucibles. 3,437,328, 4-8-69, Cl. 263-48.
Kennedy, Melvin D., to UMC Industries, Inc. Static control system for alternating current motor employing analog to digital converter. 3,437,900, 4-8-69, Cl. 318-207.
Kennedy, Melvin H., to SCM Corporation. Envelope opener. 3,479,912, 11-25-69, Cl. 83-176.
Kennedy, Melvin R.: *See*—
Danielsen, Berne E.; Dowsing, Reginald M.; Kennedy, Melvin R.; and Ryan, John W.,3,482,842.
Kennedy, Merritt T., Jr.; and Dineen, John, to Pyrate Sales, Inc. Process and apparatus for spray treating the boundary surfaces of enclosures, such as tanks and the like. 3,460,988, 8-12-69, Cl. 134-1.
Kennedy, Richard N.: *See*—
Anderson, Frederick N.; Kennedy, Richard N.; and Reed, Robert A.,3,424,869.
Kennedy, Richard N., to Bell Telephone Laboratories, Incorporated. Variable length delay apparatus. 3,460,045, 8-5-69, Cl. 328-177.
Kennedy, Robert D., to General Motors Corporation. Pin grip terminal-hermetic seal. 3,456,235, 7-15-69, Cl. 339-258.
Kennedy, Robert M., Jr., to Dennison Manufacturing Company. Strip of tags. 3,420,364, 1-7-69, Cl. 206-56.
Kennedy, Roger A.: *See*—
Fisher, Paul C.; Schub, Herman; and Kennedy, Roger A.,3,425,779.
Kennedy, Thomas E.: *See*—
Gondeck, Frederick V.; Hickox, Lester E.; Kennedy, Thomas E.; Perez, Arthur; and Thompson, James F.,3,432,378.
Parkinson, Peter; Kennedy, Thomas; and William , John,3,434,025.
Kennedy Van Saun Corporation: *See*—
Stark, Roy H., 3,426,893.
Kennedy, Walter B.; and Wheeler, Donald B., to Union Camp Corporation. Method of sanding honeycomb structure and the sanded article. 3,483,070, 12-9-69, Cl. 161-68.
Kennedy, Walter David. Apparatus for winding flexible sheet material into a roll. 3,424,397, 1-28-69, Cl. 242-76.
Kennedy, Wilbert K., Jr.: *See*—
Eastman, Lester F.; and Kennedy, Wilbert K., Jr.,3,487,334.
Kennedy, William A.; and Hardaway, Fred W., to Collins Radio Company. Coarse step-fine tune automatically tunable antenna. 3,475,703, 10-28-69, Cl. 333-17.
Kennedy, William D.: *See*—
Miller, Edward G., Jr.; and Kennedy, William D.,3,474,792.
Kennell, Joseph F.; and Smith, Brace C., to Caterpillar Tractor Company. Engine governor for control at minimum and maximum speed levels. 3,435,812, 4-1-69, Cl. 123-140.
Kennemore, Paul H.: *See*—
Watson, John W., 3,452,531.
Kenner Products Company: *See*—
Oppenheim, Michael J., 3,465,673.
Polewski, Robert E., 3,477,172.
Kennerly, George Warren: *See*—
Rauhut, Michael McKay; and Kennerly, George Warren,3,425,949.
Kenney, Harold E.: *See*—
Serota, Samuel; and Kenney, Harold E.,3,429,902.
Kenney, James C.; and Lawrence J Richard, to Mallory, P. R., & Co., Inc. Tungsten-copper composites. 3,438,753, 4-15-69, Cl. 29-182.1
Kenney, James C.: *See*—
Swazy, Earl F.; and Kenney, James C.,3,459,915.
Kenney, Jerome G., to Bell & Howell Company. Reversed telephoto type lens with internal prisms, and wide-angle attachment therefor. 3,469,900, 9-30-69, Cl. 350-203.
Kenney, Joseph F., to Remington Arms Company, Inc. Complex crystalline picrate explosive containing entrapped amounts of lead azide. 3,431,156, 3-4-69, Cl. 149-26.
Kenney, Mahlon W., to Seeburg Corporation, The. Spiral feed vending machine. 3,441,174, 4-29-69, Cl. 221-75.
Kenney, Norwood D.; and Petterson, Victor S., to Simplex Wire and Cable Company. Manufacture of high voltage polyolefin insulated cable and article. 3,482,033, 12-2-69, Cl. 174-102.
Kennon, Richard E., to Westinghouse Electric Corporation. Lightning arrester leakage current and duty monitoring system. 3,443,223, 5-6-69, Cl. 324-72.

Kenny, David Patrick: *See—*
Jarosz, Stanislas; and Kenny, David Patrick,3,420,435.
Kenny, John: *See—*
Lysakowski, Edward; and Kenny, John,3,432,884.
Kenny, Neal S.; Warden, Douglas A.; and Sapakie, Alan Louis, to Corning Glass Works. Writing or drawing instrument. 3,480,372, 11-25-69, Cl. 401-198.
Kent, Clifford E., to General Electric Company. Gas-depolarized electrical power unit with filter means. 3,457,115, 7-22-69, Cl. 136-86.
Kent, George A.; and Waring, Richard J., to Magnavox Company, The. Television vertical deflection circuit. 3,444,425, 5-13-69, Cl. 315-27.
Kent, George A.; and Waring, Richard J., to Magnavox Company, The. Television receiver video driver circuit. 3,449,514, 6-10-69, Cl. 178-7.5
Kent, George A.; and Waring, Richard J., to Magnavox Company, The. Television video detector circuit. 3,461,233, 8-12-69, Cl. 178-7.3
Kent, George A.; and Waring, Richard J., to Magnavox Company, The. Television synchronizing signal separator circuit. 3,485,947, 12-23-69, Cl. 178-7.3
Kent, George C., to American Photocopy Equipment Company. Control of light level in photocopy machine. 3,423,153, 1-21-69, Cl. 355-51.
Kent, George Limited: *See—*
Stoten, Terence A., 3,430,649.
Wilson, Haydn, 3,442,773.
Kent, George; and Waring, Richard J., to Magnavox Company, The. Automatic gain control circuit. 3,457,366, 7-22-69, Cl. 178-7.5
Kent, James J., Jr., to Four-D Productions. Method of and system for staging productions. 3,434,713, 3-25-69, Cl. 272-10.
Kent, Raymond W., Jr.; and Hock, Kenneth R., to Dow Chemical Company, The. Mixing of filamentary reinforcing material with thermoplastic resins. 3,453,356, 7-1-69, Cl. 264-143.
Kent, Robert L.; Badessa, Rosario S.; Barus, Carl; Dunn, Joseph M.; Glaser, Raymond Arthur; and Johnson, Leonard B., to United States of America, Navy, mesne. Guidance system. 3,477,666, 11-11-69, Cl. 244-3.19
Kent, Sheldon E., to Hodag Chemical Corporation. Starch and gum additive compositions and use thereof in papermaking processes. 3,471,362, 10-7-69, Cl. 162-178.
Kent, Stephen D.: *See—*
Crane, Samuel P.; and Kent, Stephen D.,3,451,074.
Kent, William C.: *See—*
Fagerstrom, Joseph W.; and Kent, William C.,3,448,515.
Kent-Owens Machine Company: *See—*
Tremblay, Albert F., 3,478,557.
Kent-Tieghi S.p.A.: *See—*
Marucci, Luigi; and Bianchi, Gian Franco, 3,448,753.
Kentfield, John A.; and Schaefer, Raymond F., to Curtiss-Wright Corporation. Thrust vectoring exhaust nozzle with flow guide for minimizing separation of the jet stream. 3,428,257, 2-18-69, Cl. 239-265.35
Kentfield, Lucius H., to Kendrey Manufacturing Co. Tool for knotting bands. 3,476,423, 11-4-69, Cl. 289-17.
Kentfield, Lucius H.; and Dreyfuss, Jack. Tube, plug and resilient link construction device. 3,422,565, 1-21-69, Cl. 46-22.
Kenton, Joseph R.; Crain, Donald L.; and Zuech, Ernest A., to Phillips Petroleum Company. Isomerization of acyclic triene compounds. 3,449,463, 6-10-69, Cl. 260-677.
Kentucky Electronics Inc.: *See—*
Johnson, Jay H., 3,441,769.
Johnson, Jay H., 3,442,008.
Johnson, Jay H., 3,482,137.
Merchant, Chester O.; and Johnson, Jay H., 3,434,819.
Merchant, Chester O., 3,435,179.
Merchant, Chester O., 3,485,124.
Yorns, Edward E., 3,478,628.
Kentucky Fried Chicken Corporation: *See—*
Hartzog, Levy S., 3,466,997.
Keathley, Maurice F.; and Mainers, Artez F., 3,431,834.
Kenworthy, Bowden B.: *See—*
Kenworthy, Kenneth; and Kenworthy, Bowden B.,3,454,965.
Kenworthy, Clarence S.: *See—*
Exline, William C.; Kenworthy, Clarence S.; and Warner, Willard E.,3,442,260.
Kenworthy, Kenneth; and Kenworthy, Bowden B.Child's adjustable stilts. 3,454,965, 7-15-69, Cl. 3-4.
Kenworthy, Norman Paul, Jr.: *See—*
Latady, William R.; and Kenworthy, Norman Paul, Jr.,3,437,748.
Kenyon, Charles Frederick: *See—*
Edwards, Harry; and Kenyon, Charles Frederick,3,431,081.
Kenyon, David E., to Sperry Rand Corporation. Vehicle sensing and velocity measuring apparatus responsive to vehicles moving along a traffic path. 3,422,429, 1-14-69, Cl. 343-8.
Kenyon, Fred V., to Robertshaw Controls Company. Switch construction and method. 3,429,199, 2-25-69, Cl. 74-548.
Kenyon, Keith E. Board game apparatus. 3,427,027, 2-11-69, Cl. 273-34.
Kenyon, Ralph Edward: *See—*
Scharschmidt, Rudolph K.; and Kenyon, Ralph Edward,3,467,530.
Kenyon, Richard L.; and Burns, John R., to Parker-Hannifin Corporation. Pressure actuated snap action electric switch utilizing an improved Belleville spring. 3,444,342, 5-13-69, Cl. 200-83.
Kenyon, Robert L.; and Thompson, Donald, to Ken-Vac Corporation, mesne. Vehicle washing apparatus. 3,434,173, 3-25-69, Cl. 15-21.
Kenyon, Ronald Wynford: *See—*
Andrew, Herbert Francis; and Kenyon, Ronald Wynford,3,484,430.
Kenyon, Theodore W., to Eastern Company, The. Speedometer for boats and other vehicles. 3,468,163, 9-23-69, Cl. 73-186.
Kenyon, William G.: *See—*
Tietz, Raymond F.; and Kenyon, William G.,3,468,861.
Kenzie, Ernest Dennis, to Irvin Industries, Inc. Self-arming altitude switch responsive to ambient physical variables to initiate one or more operations. 3,431,376, 3-4-69, Cl. 200-83.
Keogh, Raymond J., to Photocircuits Corporation. Tape transport system. 3,456,858, 7-22-69, Cl. 226-51.
Keogh, Thomas H., to Allis-Chalmers Manufacturing Company. Hermetically sealed distribution transformer. 3,474,369, 10-21-69, Cl. 336-65.
Keough, Patricia Tarpey: *See—*
Grayson, Martin; Keough, Patricia Tarpey; and Rauhut, Michael McKay,3,452,099.
Keough, Thomas H.; and Haglund, Norman E., to Allis-Chalmers Manufacturing Company. T-junction box for three phase primary feeder cable. 3,435,125, 3-25-69, Cl. 174-59.
Keough, William R., 45% to Multifastener Company. Heat treating apparatus. 3,442,274, 5-6-69, Cl. 134-108.
Keough, William R., 45% to Multifastener Company. Controlled atmosphere processing. 3,444,008, 5-13-69, Cl. 148-12.4
Keough, William R. Apparatus for treating exhaust gases from a stack. 3,478,496, 11-18-69, Cl. 55-230.
Keown, Elsie S. Mastectomy brassieres and garments for same. 3,447,538, 6-3-69, Cl. 128-478.
Kepes, Andre, to Ethylene-Plastique. Process and apparatus for determining the viscosity and elasticity properties of a solid or liquid viscoelastic medium. 3,465,575, 9-9-69, Cl. 73-60.
Kepler, Robert L., to Morrison Company. Hoist for hoisting stacked annular articles. 3,471,049, 10-7-69, Cl. 214-653.
Kepner, Larry A., to Ford Motor Company. Multiple ratio power transmission mechanism with two simple planetary gear units. 3,473,415, 10-21-69, Cl. 74-759.
Kepner, Theodore S., to Sylvania Electric Products, Inc. Optical intrusion detection system using dual beam peripheral scanning and light directing tubes. 3,476,946, 11-4-69, Cl. 250-224.
Keppelman, Carlton J. Fireplace structure. 3,420,020, 1-7-69, Cl. 52-264.
Kepple, Charles G.: *See—*
Martello, Norman E.; and Kepple, Charles G.,3,473,992.
Kepple, Charles; Martello, Norman E.; and Zeise, Clarence L., Jr., to Westinghouse Electric Corporation. Manufacture of flexible flame retardant foil clad laminates. 3,473,993, 10-21-69, Cl. 156-314.
Kerb, Ulrich: *See—*
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf,3,478,065.
Kieslich, Klaus; Kerb, Ulrich; and Raspe, Gerhard,3,426,128.
Wiechert, Rudolf; Kerb, Ulrich; and Hocks, Peter,3,442,917.
Kercheval, Frank T. Boat leveler mechanism piston construction. 3,468,278, 9-23-69, Cl. 114-66.5
Kerekes, Peter S.: *See—*
Hale, Edward C.; and Kerekes, Peter S.,3,454,457.
Kerfoot, Oliver C.; and Howell, Thomas E., to Continental Oil Company. Purification of detergent alkylates. 3,446,867, 5-27-69, Cl. 260-671.
Keripar Kereskedelmi Berendezeseket es Gepeket Gyarto Vallalat: *See—*
Torok, Jozsef, 3,480,345.
Kerjean, Joe, to Commissariat a l'Energie Atomique. Irradiation apparatus having a plurality of sources. 3,484,613, 12-16-69, Cl. 250-106.
Kerma Corporation: *See—*
Forster, Klaus W., 3,438,619.
McCready, Ross B.; and Forster, Klaus W., 3,469,832.
Kermicle, Harold A., to United States of America, Atomic Energy Commission. Specialized electrometer circuit. 3,432,764, 3-11-69, Cl. 330-87.
Kermode, Alfred F. Pump type tubular magazine repeating firearm. 3,435,549, 4-1-69, Cl. 42-17.
Kern, Edward L., to Dow Corning Corporation. Laser communication system using flexible silicone transmission line. 3,434,776, 3-25-69, Cl. 350-96.
Kern, Edward L., to Dow Corning Corporation. Coating with silicon carbide by immersion reaction. 3,455,723, 7-15-69, Cl. 117-47.

Kern, Edward L.; and Cain, Orison J., to Dow Corning Corporation. Molybdenum disulfide electrical resistance devices. 3,465,278, 9-2-69, Cl. 338-308.
Kern, Edward L.; and Hamill, Dennis W., to Dow Corning Corporation. Monocrystalline beta silicon carbide on sapphire. 3,463,666, 8-26-69, Cl. 117-201.
Kern, Edward L.; and Jerome, George A., to Dow Corning Corporation. Coating of objects with tetraboron silicide. 3,455,745, 7-15-69, Cl. 148-6.3
Kern, Forest L.; Schwoyer, William L.; and Dowling, Thomas P., to Trojan Powder Company. Primers for use with delay action blasting caps and process of blasting using the same. 3,431,851, 3-11-69, Cl. 102-24.
Kern, Forrest L.; Schwoyer, William L.; and Dowling, Thomas P., to Commercial Solvents Corporation, mesne. Primers for use with delay action blasting caps and process of blasting using the same. 3,431,849, 3-11-69, Cl. 102-24.
Kern, Harvey Conrad, to Bethlehem Steel Corporation. Rotary crusher feeding aid. 3,446,444, 5-27-69, Cl. 241-202.
Kern, Jack I.: *See—*
Rieger, Frederic L.; Kern, Jack I.; and Utzinger, William F.,3,474,234.
Kern, Rene: *See—*
Genas, Michailas; and Kern, Rene,3,427,303.
Kern, Richard J.; and Sweigert, Ernest C., to Towmotor Corporation. Common valve plate hydrostatic transmission. 3,486,335, 12-30-69, Cl. 60-53.
Kern, Robert Evans: *See—*
Contractor, Rashmikant Maganlal; and Kern, Robert Evans,3,449,486.
Kern, Robert H.; and Holloway, Joseph H., to Hewlett-Packard Company, mesne. Oven source for atomic beam tubes having a non- wettably coated gas passageway between the reservoir and the beam. 3,450,876, 6-17-69, Cl. 250-41.3
Kern, Roland J., to Monsanto Company. Crystalline polystyrene having activity as a polymerization catalyst. 3,459,832, 8-5-69, Cl. 260-881.
Kern, Roland J.; and McManimie, Robert J., to Monsanto Company. Styrene/1-olefin block copolymers. 3,478,129, 11-11-69, Cl. 260-878.
Kern, Rudolf; Groppenbacher, Gregor; and Scheurer, Hans, to Rhein-Chemie, G.m.b.H. Process for the production of aqueous dispersions, of rubber containing light-colored reinforced fillers and rubbers resulting therefrom. 3,441,525, 4-29-69, Cl. 260-4.
Kern, Walter: *See—*
Weber, Kurt; Staeuble, Max; Ulrich, Paul; and Kern, Walter,3,464,780.
Kern, Werner, to RCA Corporation. Silicate glass coating of semiconductor devices. 3,481,781, 12-2-69, Cl. 117-215.
Kern, Winfried; Cremer, Joseph; and Harnisch, Heinz. Process for the manufacture of magnesium- ammonium phosphate-hexahydrate. 3,476,510, 11-4-69, Cl. 23-105.
Kern, Winfried; and Heymer, Gero, to Knapsack Aktiengesellschaft. Process for the manufacture of sodium tripolyphosphate. 3,432,260, 3-11-69, Cl. 23-106.
Kernan, George L. Bow sight. 3,475,820, 11-4-69, Cl. 33-46.
Kernan, John J. Smokeless coke ovens. 3,462,346, 8-19-69, Cl. 201-15.
Kernforschungsanlage Julich des Landes Nordrhein Westfalen-e.V.: *See—*
Doose,. Conrad; Hemmerich, Hans; and Sassin, Wolfgang, 3,466,886.
Knacke, Ottmar, 3,485,594.
Schulten, Rudolf; Bohn, Thomas; Hecker, Rudolf; and Baurmann, Karl-Wilhelm, 3,453,090.
Kernforschungsanlage Julich des Landes Nordrhein-Westfalen- e.V.: *See—*
Boettcher, Alfred, 3,464,888.
Kernforschungsanlage Julich des Landes Nordrhein-Westfalen-e.V.: *See—*
Boettcher, Alfred, 3,472,734.
Kernick, Andress, to Westinghouse Electric Corporation. Inverter drive system. 3,427,526, 2-11-69, Cl. 321-5.
Kernohan, Thomas D.: *See—*
Rickel, Edgar J.; and Kernohan, Thomas D.,3,438,454.
Kerns, Becky T.: *See—*
Huffstutler, Miles C., Jr.; and Kerns, Becky T.,3,437,764.
Kerns, Bernard A.; and Larson, Olaf A., to Gulf Research & Development Company. Catalytic hydrodenitrogenation of petroleum fractions. 3,446,730, 5-27-69, Cl. 208-254.
Kerns, Clyde W, to Mobil Oil Corporation. Processing of seismic data obtained with long shot-detector distances. 3,421,140, 1-7-69, Cl. 340-15.5
Kerns, Karl K., to Walker Manufacturing Company. Exhaust system. 3,457,723, 7-29-69, Cl. 60-29.
Kerns, Max E., to New York Central Railroad Company, The. Method and apparatus for preconstructing railroad track sections. 3,420,186, 1-7-69, Cl. 104-3.
Kerns, Max E., to New York Central Railroad Company, The. Rail positioning system. 3,465,687, 9-9-69, Cl. 104-2.
Kerns, Quentin A., to United States of America, Atomic Energy Commission. Analysis of nonrepetitive pulse waveforms by selection and storage of pulse increments. 3,484,689, 12-16-69, Cl. 324-102.
Kerns, Quentin A.: *See—*
Miller, Harold W.; and Kerns, Quentin A.,3,457,418.
Kerns, Richard A., to Firestone Tire & Rubber Company, The. Polyurethane precursor-viscosity builder and curing agent coating composition and method of coating therewith. 3,440,086, 4-22-69, Cl. 117-105.5
Kerotest Manufacturing Corporation: *See—*
Corbin, Robert C., 3,426,779.
Schmitt, Edward L., 3,448,762.
Schmitt, Edward L., 3,473,831.
Wrenshall, Edward N., 3,429,555.
Kerr, Andrew Guy: *See—*
Good, Richard Samuel Jonathan; Kerr, Andrew Guy; Montgomery, John Young Condie; and Walker, Donald Ferguson,3,453,511.
Kerr, Bruce M., to Union Carbide Corporation. Passivation of semiconductor devices. 3,457,125, 7-22-69, Cl. 148-187.
Kerr, Charles Joseph. Closure and opener for cans. 3,463,347, 8-26-69, Cl. 220-48.
Kerr, Douglas A.: *See—*
Gibson, Richard B.; Kerr, Douglas A.; and Lindsay, Thomas E.,3,457,550.
Kerr, Edwin L.: *See—*
Atwood, John G.; and Kerr, Edwin L.,3,433,959.
Kerr, Edwin R.; Ware, Charles H., Jr.; and Stepanek, William D., to Texaco, Inc. Short cycle catalytic conversion of hydrocarbons. 3,429,941, 2-25-69, Cl. 260-669.
Kerr, Emory L., to McMullen, John J. Liquefied petroleum gas tanker. 3,453,836, 7-8-69, Cl. 62-45.
Kerr, Emory L.: *See—*
Lafont, Leo C.; and Kerr, Emory L.,3,449,801.
Kerr, George T., to Mobil Oil Corporation. Synthetic zeolite and method for preparing the same. 3,459,676, 8-5-69, Cl. 252-430.
Kerr, George T.; Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Method for preparing highly siliceous zeolite- type materials and materials resulting therefrom. 3,442,795, 5-6-69, Cl. 208-120.
Kerr, Hugh H., III; and Demee, Charles. Educational toy. 3,426,452, 2-11-69, Cl. 35-35.
Kerr, James L.: *See—*
Barlow, Jesse P.; Jones, Charles R.; and Kerr, James L.,3,467,948.
Kerr, John, to Spence, Peter, & Sons Limited. Removal of sulfur dioxide from flue gas. 3,454,354, 7-8-69, Cl. 23-2.
Kerr, John; and Gay, Duncan, to National Research Development Corporation. Hydrodynamic gas bearing assembly. 3,479,098, 11-18-69, Cl. 308-9.
Kerr, Ralph O., to Petro-Tex Chemical Corporation. Organophosphorus compounds in the reactivation of vanadium-phosphorus-oxygen catalysts. 3,474,041, 10-21-69, Cl. 252-411.
Kerr, Ralph O., to Petro-Tex Chemical Corporation. Catalytic oxidation of hydrocarbons. 3,484,384, 12-16-69, Cl. 252-437.
Kerr, Raymond W. Hollow resinous articles. 3,454,179, 7-8-69, Cl. 220-4.
Kerr, Wayne, Company Limited, The: *See—*
Calvert, Raymond; and Mildwater, John, 3,474,335.
Mildwater, John, 3,443,222.
Kerr, William J., to Chicago Lock Co. Method of forming a key for an axial tumbler type lock. 3,464,294, 9-2-69, Cl. 76-110.
Kerr-McGee Corporation: *See—*
Hermann, John A.; and Garrett, Donald E., 3,450,490.
Shaw, Merle N., 3,437,454.
Kerrigan, James A.; and Morton, Robert E., to Leesona Corporation. Unwinding apparatus. 3,449,806, 6-17-69, Cl. 28-19.
Kerrigan, Vincent; Trappe, Gordon; and Williamson, William Ian, to Imperial Chemical Industries Limited. Coating compositions comprising solutions of isocyanate-terminated polyurethanes and polyisocyanates containing isocyanurate rings. 3,454,533, 7-8-69, Cl. 260-75.
Kerry, Harold A.; and Mirliss, Melvin J., to American Potash & Chemical Corporation, mesne. Process for preparing improved titanium dioxide pigment compositions. 3,451,834, 6-24-69, Cl. 106-300.
Kerschbaum, Arthur P.: *See—*
Marshall, William E.; and Kerschbaum, Arthur P.,3,458,307.
Kerschek, Rudi, to Gewerkschaft Eisenhutte Westfalia. Prop and conveyor arrangement for removing loose mineral. 3,480,130, 11-25-69, Cl. 198-126.
Kerschgens, Johann: *See—*
Hirsch, Paul; and Kerschgens, Johann, 3,466,239.
Kerschgens, Johann: *See—*
Hirsch, Paul; and Kerschgens, Johann,3,466,239.
Kerschner, Paul M.: *See—*
Ehrgott, Charles W.; and Kerschner, Paul M.,3,425,930.
Kerseg, Kurt Carl; and Garcia, Rafael, to International Telephone and Telegraph Corporation. Snap-on cable clamp. 3,483,309, 12-9-69, Cl. 174-65.

Kershaw, Delmar D.: *See—*
Campbell, John H.; and Kershaw, Delmar D.,3,448,318.
Kershaw, Delmar D., to General Electric Company. Method of making a molybdenum-tungsten thimble seal. 3,435,180, 3-25-69, Cl. 219-85.
Kershaw Manufacturing Co., Inc.: *See—*
Holley, John D., 3,437,052.
Moorhead, William H., Jr.; and Copeland, Henry W., Jr., 3,443,529.
Kershaw Manufacturing Company, Inc.: *See—*
Holley, John D.; and Martinez, Antonio H., 3,426,379.
Kershaw, Peter Leslie: *See—*
Steghart, Fritz Ludwig Felix; Cross, Gerald; Kershaw, Peter Leslie; Oliver, Trevor Exelby; and Farrant, Leonard George,3,424,377.
Kershaw, Stanley C., to Leesona Corporation. Winding apparatus. 3,472,460, 10-14-69, Cl. 242-18.
Kershaw, Stanley S., Jr., to McGraw-Edison Company. Combined overvoltage protective device and conductor support. 3,448,343, 6-3-69, Cl. 317-72.
Kershaw, Stanley S., Jr., to McGraw-Edison Company. Lightning arrester. 3,484,863, 12-16-69, Cl. 317-61.
Kershner, Osborn A., to Lambert Brake Corporation, mesne. Hydraulic booster-equalizer valve assembly. 3,421,320, 1-14-69, Cl. 60-54.5
Kershner, Osborn A., to Lambert Brake Corporation, mesne. Disc brake and lining disc assembly. 3,433,334, 3-18-69, Cl. 188-218.
Kershner, Stuart G.: *See—*
Broussard, Douglas E.; Barry, Donald W.; Kinzbach, Robert B.; and Kershner, Stuart G.,3,438,213.
Kersken, Wilhelm: *See—*
Faerber, Gerhard; and Kersken, Wilhelm,3,466,255.
Kersker, Theodore M.; and Kovac, Frederick J., to Goodyear Tire & Rubber Company, The. Reinforement for pneumatic tires and the like. 3,431,962, 3-11-69, Cl. 152-355.
Kerslake, William R.: *See—*
Reader, Paul D.; Kaufman, Harold R.; and Kerslake, William R.,3,447,015.
Kersnar, Paul W.; and Taormina, Samuel, to Progressive Products Co. Method of preparing bis(beta hydroxypropyl) ethylene diamine. 3,454,647, 7-8-69, Cl. 260-584.
Kerstein, Melvin T.: *See—*
Jorgensen, Lester V.; and Kerstein, Melvin T.,3,427,101.
Kersten, Hans. Mixer control desks, particularly for radio casting studios. 3,482,147, 12-2-69, Cl. 317-101.
Kersteter, Ammon W.: *See—*
Mulholland, Lawrence K.; Kersteter, Ammon W.; and Baste, Adolph C. A.,3,448,711.
Kerstetter, Donald R.: *See—*
Hagadorn, Marold Weston; and Kerstetter, Donald R.,3,431,631.
Kerstetter, Donald R., to Sylvania Electric Products Inc. Method of making a pencil type indirectly heated cathode. 3,432,900, 3-18-69, Cl. 29-25.17
Kerstetter, Donald R., to Sylvania Electric Products, Inc. Tensioned directly heated cathode having improved temperature characteristics. 3,441,767, 4-29-69, Cl. 313-37.
Kerstetter, Donald R., to Sylvania Electric Products, Inc. Process for sealing connectors in planar structure. 3,445,211, 5-20-69, Cl. 65-56.
Kerstetter, Donald Russel, to Sylvania Electric Products, Inc. Cathode sleeve structure and fabrication process. 3,447,017, 5-27-69, Cl. 313-356.
Kerstholt, Fritz; and Kerstholt, Gerdi. Moving toy and exercising device. 3,423,105, 1-21-69, Cl. 280-218.
Kerstholt, Gerdi: *See—*
Kerstholt, Fritz; and Kerstholt, Gerdi,3,423,105.
Kersting, Raymond J., to Wagner Electric Corporation, mesne. Fluid pressure failure indicating means. 3,439,323, 4-15-69, Cl. 340-52.
Kersting, Raymond J., to Wagner Electric Corporation. Control valve. 3,463,556, 8-26-69, Cl. 303-22.
Kersting, Raymond J., to Wagner Electric Corporation. Control valve. 3,482,884, 12-9-69, Cl. 303-6.
Kertell, Frank W., to Walker, Brooks. Toilet tank flush valve. 3,419,912, 1-7-69, Cl. 4-58.
Kertell, Frank W.: *See—*
Walker, Brooks; and Kertell, Frank W.,3,437,320.
Walker, Brooks; and Kertell, Frank W.,3,456,501.
Walker, Brooks; and Kertell, Frank W.,3,456,631.
Kerver, John K.; Kaiser, Albert D., Jr.; Heilhecker, Joe K.; and Mc Kinney, Joseph M., to Esso Production Research Company. Treatment of solids plugged wells with reversibly adsorbable inhibitor. 3,481,400, 12-2-69, Cl. 166-279.
Kervin, Willis D. Flow regulating system. 3,443,576, 5-13-69, Cl. 137-88.
Kerwin, Edward M., Jr., to Bolt Beranek and Newman Inc. Phonograph record apparatus. 3,472,515, 10-14-69, Cl. 274-11.
Kerwin, James F., to Smith Kline & French Laboratories. 6,6-Ethylene spirolactones. 3,422,097, 1-14-69, Cl. 260-239.57
Kerwin, James F., to Smith Kline & French Laboratories. 6-Spirooxiraneprogesterones. 3,433,787, 3-18-69, Cl. 260-239.55
Kerwin, James F., to Smith Kline & French Laboratories. 6,6-Ethylene-9α-fluoro steroids. 3,476,783, 11-4-69, Cl. 260-397.45
Kerwin, James F.: *See—*
Georgian, Vlasios; and Kerwin, James F.,3,476,745.
Georgian, Vlasios; and Kerwin, James F.,3,479,342.
Kerwin, Robert E.; Klein, Donald L.; and Sarace, John C., to Bell Telephone Laboratories, Incorporated. Method for making MIS structures. 3,475,234, 10-28-69, Cl. 148-187.
Kerwin, Walter J., to Teletype Corporation. Telegraph system with simultaneous message transmission and poll for answer-back arrangement. 3,420,947, 1-7-69, Cl. 178-3.
Kerwin, William J.; Dix, Michael G.; and Munoz, Robert M., to United States of America, National Aeronautics and Space Administration. Demodulation system. 3,464,016, 8-26-69, Cl. 328-1.
Kerwin, William J.; and Scott, Stanley G., to United States of America, National Aeronautics and Space Administration. Nonmagnetic thermal motor for a magnetometer. 3,423,608, 1-21-69, Cl. 310-4.
Kerwon, James F.: *See—*
Holden, Kenneth G.; and Kerwon, James F.,3,462,465.
Kerwood, Joseph Edward: *See—*
Coran, Aubert Yaucher; and Kerwood, Joseph Edward,3,427,319.
Coran, Aubert Yaucher; and Kerwood, Joseph Edward,3,473,667.
Kery, Ervin, to Enger-Kress Company. Billfolds. 3,470,931, 10-7-69, Cl. 150-38.
Kerznar, Edward R.: *See—*
Schultz, Silas L.; and Kerznar, Edward R.,3,461,425.
Keshi, Akizo: *See—*
Yotsuzuka, Masaru; Keshi, Akizo; Hashimoto, Norishige; Kodama, Katsuhisa; and Nakahara, Shigenobu,3,433,751.
Kesler, George W., to Inta-Roto Machine Company, The. Calendering machine. 3,451,332, 6-24-69, Cl. 100-162.
Kesler, William C.: *See—*
Ermer, Joseph W., Jr.; and Kesler, William C.,3,461,649.
Keslin, Robert, to International Business Machines Corporation. Digit processing unit. 3,463,910, 8-26-69, Cl. 235-153.
Kesling, David L. Collapsible bicycle supporting rack. 3,455,461, 7-15-69, Cl. 211-21.
Kesling, Keith K., to General Motors Corporation. Refrigerating apparatus. 3,426,110, 2-4-69, Cl. 264-46.
Kesling, Keith K., to General Motors Corporation. Gliding shelf. 3,441,331, 4-29-69, Cl. 312-341.
Kesling, Keith K., to General Motors Corporation. Method of making a shelf front. 3,467,741, 9-16-69, Cl. 264-92.
Kesling, Keith K.; and Watt, Roy E ., to General Motors Corporation. Selecto-hinge door. 3,455,061, 7-15-69, Cl. 49-382.
Kesling, Peter C. Safety lock pin. 3,435,527, 4-1-69, Cl. 32-14.
Kesling, Peter C. Orthodontic lock pin. 3,445,933, 5-27-69, Cl. 32-14.
Kesolits, Thomas J., to United States of America, Army. Bipolar to two-level binary code translator. 3,434,059, 3-18-69, Cl. 328-117.
Kessel, Abbas. Rocking chair construction. 3,460,866, 8-12-69, Cl. 297-258.
Kessel, James E., to United States of America, National Aeronautics and Space Administration. Plural recorder system. 3,422,440, 1-14-69, Cl. 346-44.
Kessel, John E., to K&R Industries, Inc. Concrete finishing machines. 3,452,654, 7-1-69, Cl. 94-45.
Kesseler, Helmut: *See—*
Winkler, Fritz; Pohl, Franz; Stark, Hermann; Kesseler, Helmut; and Grundmann, Werner,3,424,646.
Kessell, John E., to K & H Industries, Inc. Surfacing units. 3,453,654, 7-1-69, Cl. 94-45.
Kesselring, Fritz, to Siemens Aktiengesellschaft. Circuit breaker for interrupting at zero current and automatically reclosing after unsuccessful interruption. 3,449,537, 6-10-69, Cl. 200-148.
Kesselring, Fritz, to Siemens-Schuckertwerke Aktiengesellschaft. Current limiting circuit breaker. 3,452,172, 6-24-69, Cl. 200-146.
Kesselring, Fritz; and Aumayer, Hansruedi, to Siemens Aktiengesellschaft, mesne, and I-T-E Imperial Corporation. Synchronous circuit breaker with automatic reclosing responsive to unsuccessful interruption. 3,486,137, 12-23-69, Cl. 335-19.
Kesser, Charles M.: *See—*
Griswold, Douglas A.; Dick, Edward F.; and Kesser, Charles M.,3,456,076.
Kessinger, Gene L.: *See—*
Tuschhoff, John V.; Kessinger, Gene L.; and Hanson, Cleo E.,3,422,088.
Kesslen Shoe Company: *See—*
Ornsteen, Alfred, 3,482,335.
Kessler, Adriaan: *See—*
Hall, Robert E.; Kessler, Adriaan; and McLain, Aubrey R.,3,459,808.
Kessler, Arthur R.: *See—*
Pryor, Harry H.; Kessler, Arthur R.; Blacklock, Arthur G.; Neumann, Charles G.; Short, William H.; and Modjeski, Richard N.,3,446,137.
Kessler, Bernard V., to United States of America, Navy. Method and apparatus for optically detecting acoustic disturbances. 3,474,253, 10-21-69, Cl. 250-217.

Kessler, Frank L. Rapid assembly railing. 3,481,585, 12-2-69, Cl. 256-65.
Kessler, Gerald. Plastic edge channel for glass windows. 3,442,059, 5-6-69, Cl. 52-399.
Kessler, Harold D.: *See*—
Kastanek, Joseph; and Kessler, Harold D.,3,470,034.
Kessler, Heinz Gerhard, to Krauss-Maffei A.G. Process and apparatus for vacuum-drying bulk materials. 3,460,269, 8-12-69, Cl. 34-92.
Kessler, Kenneth Q., to Deere & Company. Forage harvester. 3,438,182, 4-15-69, Cl. 56-16.
Kessler, Leland L., to Westinghouse Electric Corporation. Temperature control means. 3,440,521, 4-22-69, Cl. 323-19.
Kessler, Lowell: *See*—
Roden, Richard L.; Smith, Dudley C.; and Kessler, Lowell,3,484,807.
Kessler, Marvin Donald. Protector for shoe undersurfaces and method of securing same. 3,473,179, 10-21-69, Cl. 12-146.
Kessler, Milton. Protective floor covering. 3,435,481, 4-1-69, Cl. 15-215.
Kessler, Milton. All-plastic megaphone. 3,450,226, 6-17-69, Cl. 181-27.
Kessler, Milton. Pin attachment for a plastic badge and method of making same. 3,466,773, 9-16-69, Cl. 40-1.5
Kessler, Milton. Air-driven motor vibrator assembly. 3,487,244, 12-30-69, Cl. 310-81.
Kessler, Monroe H.; and Gebhardt, Edwin J., to National Steel Corporation. Control of mechanical properties and aging characteristics of flat rolled steel product. 3,460,997, 8-12-69, Cl. 148-2.
Kessler, Reinhard: *See*—
Otterbach, Gerd; Grafe, Wolfgang; and Kessler, Reinhard,3,424,286.
Kessler, Thomas M.: *See*—
Baker, Patrick W.; and Kessler, Thomas M.,3,472,331.
Kessling, Bernard H. Wheeled support for a patient in a body cast. 3,462,186, 8-19-69, Cl. 296-20.
Kessoku, Kazuo: *See*—
Namba, Yasuhiro; Kessoku, Kazuo; Fujii, Tadayoshi; Ogura, Toshinobu; and Yoshiyama, Ichiro,3,476,028.
Kestemont, Lucien, to European Atomic Energy Community (Euratom). Double wall heat exchanger utilizing flexible conductor plates between the walls. 3,438,430, 4-15-69, Cl. 165-32.
Kesten, Patrick N.; and Schwartzwalder, Karl, to General Motors Corporation. Ceramic foam. 3,451,841, 6-24-69, Cl. 117-98.
Kesten, Seymour: *See*—
Price, Herbert; and Kesten, Seymour,3,465,461.
Kestenbaum, Ronald. Dart construction. 3,425,695, 2-4-69, Cl. 273-106.5
Kester, Lynn C. Denture anchor. 3,473,222, 10-21-69, Cl. 32-10.
Keston, Albert S., to Miles Laboratories, Inc. Protein indicator. 3,485,587, 12-23-69, Cl. 23-230.
Ketcham, George M.: *See*—
Freedman, Robert P.; and Ketcham, George M.,3,436,943.
Ketchpel, Richard D., to Hughes Aircraft Company. High frequency modulation cathode ray tube. 3,462,642, 8-19-69, Cl. 315-30.
Ketelsen, Peter, to Manufacturers Engineering and Equipment Corporation. Sample purging device. 3,464,271, 9-2-69, Cl. 73-421.
Ketley, Arthur D., to Grace, W. R., & Co. Preparation of olefin-metal complexes. 3,439,009, 4-15-69, Cl. 260-429.
Ketley, Arthur D., to Grace, W. R., & Co. 4-Dichloromethylenecyclohexene. 3,453,336, 7-1-69, Cl. 260-648.
Ketley, Arthur D., to Grace, W. R., & Co.Process for preparing palladium-π-allyl complexes. 3,479,379, 11-18-69, Cl. 260-429.
Ketley, Arthur D.; and Steadman, Thomas R., to Grace, W. R., & Co. Formaldehyde in the removal of nitrate ions from regenerated alkylation catalysts. 3,463,740, 8-26-69, Cl. 252-416.
Keto, August I.: *See*—
Hofmann, Charles F.; and Keto, August I.,3,433,893.
Keto, August I., to Westinghouse Electric Corporation. Operating mechanisms. 3,485,503, 12-23-69, Cl. 277-26.
Keto, August I.; and Palumbo, Anthony J., to Westinghouse Electric Corporation. Electrical transformer construction. 3,436,704, 4-1-69, Cl. 336-70.
Kettell, Philip E., to Adams, E. A., & Son, Inc. Friction grip earring clamp. 3,483,715, 12-16-69, Cl. 63-14.
Kettenbach, Edward L. Drain having shielded suction tube. 3,421,510, 1-14-69, Cl. 128-350.
Kettenbach, Edward L. Surgical drains. 3,433,227, 3-18-69, Cl. 128-350.
Kettenring, Otto; and Gotze, Wolfgang, to General Mills, Inc. Hot melt adhesive. 3,449,273, 6-10-69, Cl. 260-18.
Ketter, Paul L., to United States Steel Corporation. Apparatus for testing relays for operability, con- tinuity and leakage. 3,452,271, 6-24-69, Cl. 324-28.
Ketterer, Charles W.: *See*—
Huck, Alfred J.; and Ketterer, Charles W.,3,452,670.
Ketterer, Edward M., to Colad Company, Inc., The. Display easel. 3,473,777, 10-21-69, Cl. 248-459.
Ketterer, Stanley J.: *See*—
Goebel, Gregory; and Ketterer, Stanley J.,3,433,191.
Kaplan, Ronald M.; and Ketterer, Stanley J.,3,472,187.
Ketterer, Wilhelm, to Heckler & Koch G.m.b.H. Trigger mechanism for automatic firearms. 3,446,114, 5-27-69, Cl. 89-140.
Kettering, Dale O.: *See*—
Strickland, Nacy L.; Kettering, Dale O.; and Grosswiller, Leo J., Jr.,3,429,082.
Kettering Scientific Research, Inc.: *See*—
Bulen, William A., 3,423,289.
Treharne, Richard W., 3,444,739.
Kettleborough, Donald J.: *See*—
Carlson, Arthur B.; Kettleborough, Donald J.; and Schreiber, Lucian L.,3,451,089.
Kettler, Heinz, Metallwarenfabrik, Firma: *See*—
Kettler, Heinz, 3,437,375.
Kettler, Heinz, to Kettler, Heinz, Metallwarenfabrik, Firma. Furniture piece having a fabric attachable thereto. 3,437,375, 4-8-69, Cl. 297-441.
Keuffel & Esser Company: *See*—
Endermann, Fritz; Munder, Johannes; and Stroszynski, Joachim, 3,440,944.
Gold, Robert M., 3,428,952.
Gold, Robert M., 3,467,481.
Ishikawa, Hidehiko; Sato, Mikio; and Matsui, Kazuo, 3,466,173.
Kosar, Jaromir, 3,469,981.
Linowitzki, Viktor; and Kramer, Heinz, 3,458,314.
Munder, Johannes; and Hertzberg, Gunther, 3,434,838.
Munder, Johannes; Scheler, Siegfried; and Brahm, Richard, 3,459,550.
Rauhut, Herbert; and Sus, Oskar, 3,432,301.
Rauhut, Herbert, 3,459,551.
Rauhut, Herbert; and Sus, Oskar, 3,462,271.
Rowe, Gerhardt C., 3,482,316.
Sus, Oskar; and Schafer, Heinz, 3,473,928.
Tsunoda, Takahiro; Yamaoka, Tsuguo; Itano, Kohei; and Hori, Haruo, 3,486,900.
Werner, Georg; and Rauhut, Herbert, 3,473,930.
Keulemans, Aloysius I. M., to Perkin-Elmer Limited. Pyrolysis apparatus. 3,475,131, 10-28-69, Cl. 23-253.
Keuls, Henry P. C. Air purifier and humidifier. 3,464,188, 9-2-69, Cl. 55-234.
Keuls, Henry P. C. Air purifier and humidifier. 3,474,598, 10-28-69, Cl. 55-234.
Keur, Robert I., to Dick, A. B., Company. Ink drop writing apparatus. 3,465,350, 9-2-69, Cl. 346-75.
Keur, Robert I.; and Dahl, Henry A., to Dick, A. B., Company. Ink drop writing apparatus. 3,465,351, 9-2-69, Cl. 346-75.
Keuro Maschinenbau G.m.b.H. & Co. K.G.: *See*—
Stolzer, Paul, 3,429,213.
Keuth, Heinz; Heyer, Alfred; and Gegner, Emil, to Siemens Aktiengesellschaft. Magnetizable slot closure for electrical machines. 3,447,009, 5-27-69, Cl. 310-214.
Kevey, Andrew, to United States of America, Atomic Energy Commission. Neutron spectrometer for high neutron flux. 3,435,219, 3-25-69, Cl. 250-83.1
Kevorkian, Kevork: *See*—
Regnier, Albert; Kevorkian, Kevork; and Bakka, Raymond,3,482,226.
Kewanee Manufacturing Company: *See*—
Peterson, Bulow A.; and Carlson, Gale K., 3,469,360.
Kewanee Oil Company: *See*—
Brinckmann, Paul C., 3,446,745.
Du Rose, Arthur H.; Willson, Karl S.; and Tejada, Gustavo C., 3,428,441.
Griffin, Thomas A.; Humrick, Richard J.; and Hill, Edwin R., 3,442,007.
Hay, John O.; and Grodek, Raymond J., 3,472,613.
Hill, Edwin R., 3,472,690.
Hurst, Gerald L.; and Khayat, Saadideen I., 3,427,133.
Mayfield, Orley J., 3,466,363.
Menefee, Julious M.; and Erker, Joseph W., 3,426,195.
Moy, Paul W., 3,480,524.
Mudrak, Anton; and Zelek, John A., 3,487,067.
Owen, James E., 3,424,551.
Tanos, Andrew B., 3,480,473.
Towle, Jack C.; Du Rose, Arthur H.; Meek, William H., Jr.; and Block, Dale G., 3,428,536.
Towle, Jack L.; and Mudrak, Anton, 3,441,555.
Kewanee Valve Company: *See*—
McCornack, Robert R., 3,447,559.
Key, Kenneth Andrew: *See*—
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew,3,451,209.
Bisset, Douglas Chisholm; Dunnell, Alan Keith; Hooper, Clive Williams; and Key, Kenneth Andrew,3,452,534.
Key Pharmaceuticals, Inc.: *See*—
Shepard, Mark, 3,432,593.
Key, Rupert E., to General Dynamics Corporation. Fusion welding filler metal with chromium nickel and vanadium alloying elements. 3,431,102, 3-4-69, Cl. 75-128.
Keyes Fibre Company: *See*—
Bagay, Marcel, 3,459,360.
Crabtree, Kenneth L., 3,477,564.

Keyes, Jack; Greene, Robert R.; and Boesen, Thomas E., to International Telephone and Telegraph Corporation. Close-coupled booster pump. 3,467,014, 9-16-69, Cl. 103-87.
Keyes, Marion A., to Beloit Corporation. Determination of fiber characteristics in paper making. 3,461,030, 8-12-69, Cl. 162-198.
Keyes, Raymond H. Building structure. 3,455,069, 7-15-69, Cl. 52-73.
Keyes, Robert W., to International Business Machines Corporation. Memory controlled shift register display device. 3,445,827, 5-20-69, Cl. 340-173.
Keyes, Robert W.; and Weiser, Kurt, to International Business Machines Corporation. Semiconductor negative resistance electrolumines- cent diode. 3,440,497, 4-22-69, Cl. 317-234.
Keylwert, Johann, to Klockner-Humboldt-Deutz Aktiengesellschaft. Rotary piston internal combustion engine, especially circular piston internal combustion engine. 3,452,723, 7-1-69, Cl. 123-8.
Keymer, Mark W., to Malco Products, Inc. Take-off tool. 3,423,984, 1-28-69, Cl. 72-337.
Keymer, Mark W., to Malco Products, Inc. Hand cutting tool and holder. 3,447,580, 6-3-69, Cl. 145-108.
Keys, Marvin C.: *See*—
Saletzki, Jacob S.; and Keys, Marvin C.,3,474,733.
Keyser, Naaman H., to Interlake Steel Corporation. Electric arc furnace. 3,423,080, 1-21-69, Cl. 266-10.
Keystone Cable Corporation: *See*—
Lewis, Jack R.; and Nagle, George D., 3,442,323.
Keystone Chemurgic Corporation: *See*—
Buzas, August J.; and Schenck, Remsen T. E., 3,446,828.
Keystone Consolidated Industries, Inc.: *See*—
Anderson, Ralph F., 3,482,888.
Beckman, Melvin H.; Unter, Robert K.; and Wald, Samuel K., 3,434,263.
Carlson, Evert A., 3,452,386.
Coe, William H., 3,447,190.
Dauenbaugh, Robert L., 3,447,348.
Ellis, Leslie M., 3,460,210.
Hallgren, Charles G., 3,452,564.
Sewell, Robert A., 3,436,939.
Sewell, Robert A., 3,472,049.
Spon, Carroll V.; and Kolenda, Donald J., 3,455,126.
Stone, Roy A., 3,452,388.
Unter, Robert K., 3,467,409.
Wald, Samuel K.; and Whittom, Robert M., 3,460,189.
Walters, Russell W., 3,436,938.
Keystone Industries, Inc.: *See*—
Smith, James T., 3,485,385.
Keystone Steel & Wire Company: *See*—
Shaffer, Joseph C., 3,456,415.
Unter, Robert K., 3,481,168.
Walters, Russell W., 3,437,363.
Walters, Russell W., 3,437,364.
Keystone Valve Corporation: *See*—
Forsman, Earl R., 3,452,961.
Scruby, Stanley R.; and McIver, Donald J., 3,464,740.
Keystone-Seneca Wire Cloth Company: *See*—
Krebs, William B., 3,424,207.
Keyworth, Albert, to Abex Corporation. Electrohydraulic displacement control with mechanical feedback. 3,429,225, 2-25-69, Cl. 91-3.
Kezer, Charles F.: *See*—
Dodge, David L.; Altieri, Joseph R.; and Kezer, Charles F.,3,457,503.
Kezer, Charles F.; and Zingarelli, Thomas P., 2nd, to Litton Industries, Inc. Method and apparatus for winding a precision resistor. 3,445,071, 5-20-69, Cl. 242-9.
Kezerian, Charles, to Stauffer Chemical Company. Process for producing polyesters of monothiodipolycarboxylic acids. 3,441,596, 4-29-69, Cl. 260-481.
Kezerian, Charles; Wallace, Edwin G.; and Kopacki, Adam F., to Stauffer Chemical Company. Stabilized polypropylene compositions containing a phenolic antioxidant and a tert-alkyl ester of thiodisuccinic acid. 3,433,762, 3-18-69, Cl. 260-45.8
K. G. B. Enterprises (Proprietary) Limited: *See*—
Kluver, Klaus H., 3,485,111.
KGL Luftfartsstyrelsen: *See*—
Svensson, Erik Patrik Viktor; and Nyberg, Uno, 3,447,276.
Khachijan, Alexei Sergeevich; Skuinj, Alexandr Kasparovich; Lekhovitser, Moisei Alexandrovich; Linich, Viktor Vladimirovich; Shapovalov, Sergei Vasiljavich; and Ocheretin, Ivan Vasiljevich. Carburetor. 3,480,418, 11-25-69, Cl. 48-180.
Khaidurov, Leonid Konstantinovich: *See*—
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovitch; and Khaidurov, Leonid Konstantinovich,3,467,437.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,438.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,439.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razemerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,477,301.
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Khalil, Seyed. Type aligning machine. 3,460,894, 8-12-69, Cl. 356-165.
Khamkhotko, Anatoly Eedorovich: *See*—
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.
Khamzin, Kamil Gumerovich; and Lapshin, Pavel Sergeevich. System for determining formation characteristics. 3,425,273, 2-4-69, Cl. 73-155.
Khan, Amanullah R.: *See*—
Feldkirchner, Harlan L.; Linden, Henry R.; Khan, Amanullah R.; and Todesca, Flaminio,3,433,610.
Khan, Waheed N.: *See*—
Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney,3,445,339.
Khau Van Kien, Louis: *See*—
Cornu, Maurice; and Khau Van Kien, Louis,3,442,250.
Khayat, Saadideen I.: *See*—
Hurst, Gerald L.; and Khayat, Saadideen I.,3,427,133.
Khazen, Alexandr Moiseevich. Magnetic amplifier. 3,469,199, 9-23-69, Cl. 330-8.
Khcheyan, Khachik Egorovich: *See*—
Yakovich, Ninel Iosifovna; Khcheyan, Khachik Egorovich; Izrael, Larisa Borisovna; Pavlichev, Alexei Fedorovich; and Kondtratieva, Nina Nikolaevna,3,439,059.
Kheifets, Ber Simkhovich: *See*—
Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich,3,459,311.
Khelghatian, Habet M.: *See*—
Jezl, James L.; Khelghatian, Habet M.; and Hague, Louise D.,3,441,551.
Khelghatian, Habet M.; Jezl, James L.; and Hague, Louise D., to Avisun Corporation. Preparation of block copolymers of propylene and ethylene. 3,442,978, 5-6-69, Cl. 260-878.
Khimich, Georgy Lukich: *See*—
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich,3,480,074.
Khinich, Isak Yakovlevich: *See*—
Maslennikov, Vladilen Andrianovich; and Khinich, Isak Yakovlevich,3,446,445.
Khodorov, Evgeny Iosifovich: *See*—
Telyatnikov, Garry Vladimirovich; Khodorov, Evgeny Iosifovich; Evtjutov, Anatoly Akindinovich; Skopa, Denis Denisovivh; Chervinsky, Anatoly Alexeevich; Shilov, Alexandr Vladimirovich; and Kazantseva, Nina Mikhailovna,3,444,628.
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich, to Gosudarstvenny Ordena Trudovogo Krasnogo Znameni Proektno-Izyskatelsky Insitiut Metrogiprotrans. Shield for constructing tunnels. 3,472,036, 10-14-69, Cl. 61-85.
Khokhlov, Evgeny Ilich: *See*—
Vyaznikov, Alexandr Konstantinovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; and Khokhlov, Evgeny Ilich,3,446,258.
Khokhlov, Viktor Dmitrievich: *See*—
Chereshnev, Leonid Trofimovich; and Khokhlov, Viktor Dmitrievich,3,460,587.
Khorev, Viktor Nikolaevich: *See*—
Niskovskikh, Vitaly Maximovich; Kuruklis, Georgy Leonidovich; Gelfenbein, Evgeny Jukimovich; Tarlinsky, Isai Vulfovich; and Khorev, Viktor Nikolaevich,3,447,588.
Khorunzhy, Valentin Alexeevich: *See*—
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly

Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Sameljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich,3,457,462.
Khoury, Henri A., to International Business Machines Corporation. Incremental motion actuator. 3,451,311, 6-24-69, Cl. 91-36.
Khoury, Nick S., to Continental Can Company, Inc. Pull tab opening means. 3,432,067, 3-11-69, Cl. 220-54.
Khoury, Nick S., to Coninental Can Company, Inc. Soft lift tab. 3,437,229, 4-8-69, Cl. 220-54.
Khoury, Nick S., to Continental Can Company, Inc. Coined bead for improved fill characteristics. 3,441,170, 4-29-69, Cl. 220-54.
Khoury, Nick S., to Continental Can Company, Inc. Aerosol can end with reinforced curl. 3,468,452, 9-23-69, Cl. 220-67.
Khoury, Nick S., to Continental Can Company, Inc. Single pull ring tab. 3,480,175, 11-25-69, Cl. 220-54.
Khrapach, Evgeny Ivanovich: *See*—
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.
Khriyama, Osamu: *See*—
Suzuki, Motohiko; Khriyama, Osamu; Aoyama, Kazumi; and Takuma, Zenzaburou,3,439,462.
Khused, German Ionasovich: *See*—
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; Efodiev, Evgeny Petrovich; and Zafransky, Vladimir Mikhailovich,3,460,200.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; and Zafransky, Vladimir Mikhailovich,3,460,201.
Kian, Leonard. Expandable band. 3,453,821, 7-8-69, Cl. 59-79.
Kibbe, Raymond Keith: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,464,049.
Kibbe, Walter R., to Sterling Drug Inc. Tablet forming machines. 3,460,487, 8-12-69, Cl. 107-17.
Kibbel, William H., Jr.: *See*—
Kreuz, Donald F.; and Kibbel, William H., Jr.,3,470,959.
Kibbie, William H.: *See*—
Barkley, Byron F.; and Kibbie, William H.,3,458,152.
Kibby, Robert Milton; Marshall, Herbert Charles, Jr.; and Richards, Nolan Earle, to Reynolds Metals Company. Alumina concentration meter. 3,471,390, 10-7-69, Cl. 204-195.
Kibler, Charles Jacob; and Larkins, Thomas Hassell, Jr., to Eastman Kodak Company. Gallium lactate as a polymerization catalyst in polyester preparation. 3,483,166, 12-9-69, Cl. 260-75.
Kibler, Charles J.: *See*—
Smith, James G.; Kibler, Charles J.; and Schulken, Roger M., Jr.,3,483,157.
Tholstrup, Clarence E.; Bell, Alan; and Kibler, Charles J.,3,466,323.
Kibler, Lynden U.: *See*—
Fox, Arthur G.; and Kibler, Lynden U.,3,430,158.
Kibler, Richard W., to Firestone Tire & Rubber Company, The. Rubber tires with nylon reinforcement cord containing dispersed therein the reaction product of boric acid and an aliphatic alcohol. 3,459,251, 8-5-69, Cl. 152-330.
Kibler, Willis L.: *See*—
Mandy, Robert R.; and Kibler, Willis L.,3,456,278.
Kick, Otto: *See*—
Kaess, Franz; and Kick, Otto,3,436,898.
Kickham Boiler & Sheet Iron Works, Inc.: *See*—
Dieker, Robert J., 3,481,591.
Kida, Kazuyoshi: *See*—
Taira, Keon; and Kida, Kazuyoshi,3,475,892.
Kida, Nobutoshi: *See*—
Brooks, Robert; Wakabayashi, Kinjiro; and Kida, Nobutoshi,3,467,115.
Kidby, James C., to Silentbloc Limited. Vehicle shock absorbing suspension units. 3,482,829, 12-9-69, Cl. 267-35.
Kidd, Derek J.: *See*—
Stubbs, Royston A.; and Kidd, Derek J.,3,457,393.
Kidd, Joseph V. Detector switch. 3,421,124, 1-7-69, Cl. 335-205.
Kidd, Joseph V. Pressure balanced mechanical detector with permanent magnetic means activating indicator means. 3,478,717, 11-18-69, Cl. 116-124.
Kidd, Joseph V. Pig apparatus. 3,480,984, 12-2-69, Cl. 15-104.06
Kidd, Walter L., to Lamb, F. Jos., Company. Single bar transfer device. 3,473,645, 10-21-69, Cl. 198-221.
Kidde, Walter, & Company: *See*—
Scofield, William; and Olson, Walter J., 3,448,808.
Kidde, Walter, & Company, Inc.: *See*—
Barnes, Robert W., 3,441,086.
Barnes, Robert W., 3,482,638.
Boudreau, Frank; Huston, Paul O.; and Rasmusson, Donald R., 3,428,188.
Jackovitz, John F.; and Jamison, Will B., 3,422,011.
Knapp, Theodore F., 3,480,815.
Noe, Harold C., 3,469,420.
Troy, Raymond A., 3,455,459.
Kidde, Walter & Company of Canada Ltd.: *See*—
Kinsey, George Beverly, 3,452,345.
Kidder Smith, George E. Window air conditioner units. 3,465,539, 9-9-69, Cl. 62-262.
Kidera, Edward H.; Kurth, Warren; and Whittingham, David J., to Walker Manufacturing Company. Forming apparatus. 3,431,759, 3-11-69, Cl. 72-7.
Kidman, Ronald D.: *See*—
Hovenga, La Vern B.; Hardt, Ivan E.; Kidman, Ronald D.; and Gruen, Harold E.,3,428,916.
Kido, Ryonosuke: *See*—
Kitahonoki, Keizo; and Kido, Ryonosuke,3,448,151.
Kido, Takayoshi: *See*—
Fukada, Shuzo; Kido, Takayoshi; and Hurutate, Hirotugu,3,470,942.
Kidwell, Jay F., to Anchor Hocking Corporation. Method and means for inspecting glass articles. 3,479,514, 11-18-69, Cl. 250-223.
Kidwell, Raymond A. Mechanical fingering and picking device for electric bass guitar. 3,443,468, 5-13-69, Cl. 84-9.
Kiefer Hans; Raff, Paul; and Schuster, Ludwig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dihydrotricyclopentadienylamine and preparation thereof. 3,432,552, 3-11-69, Cl. 260-563.
Kiefer, Hans: *See*—
Graser, Fritz; and Kiefer, Hans,3,461,141.
Kiefer, Heinz, to Hesser, Fr., Maschinenfabrik, A.G. Method of and an apparatus for cementing the closure joints of packages. 3,480,470, 11-24-69, Cl. 117-111.
Kiefer, Henry, to Eagle-Picher Industries, Inc. Cushioned roller. 3,451,095, 6-24-69, Cl. 16-107.
Kiefer, John E.; and Touey, George P., to Eastman Kodak Company. Particulate cellulose acetate tobacco smoke filter. 3,420,245, 1-7-69, Cl. 131-261.
Kiefer, John E.; and Touey, George P., to Eastman Kodak Company. Cigarette filter tow. 3,476,120, 11-4-69, Cl. 131-267.
Kieffer, Richard, to Societe des Poudres Metalliques et des Alliages Speciaux Ugine-Carbone. Alloys of sintered carbides. 3,463,621, 8-26-69, Cl. 29-182.7
Kieffer, Ronald J.: *See*—
Sisson, James B.; and Kieffer, Ronald J.,3,441,130.
Kiehl, Jean-Pierre, to Societe Generale des Produits Refractaires. Prefiring of refractory materials. 3,427,367, 2-11-69, Cl. 263-52.
Kiekhaefer, Elmer Carl, to Brunswick Corporation. Skylight mounting. 3,455,073, 7-15-69, Cl. 52-200.
Kiekhaefer, Elmer C., to Brunswick Corporation. Dual dome skylight. 3,434,250, 3-25-69, Cl. 52-22.
Kiekhaefer, Elmer C., to Brunswick Corporation. Dual pane skylight. 3,434,251, 3-25-69, Cl. 52-22.
Kiel, Othar M.; and Graham, Harold L., to Esso Production Research Company. Pump valves. 3,444,889, 5-20-69, Cl. 137-547.
Kielas, Robert J.; and Porath, Gordon H., to Babcock & Wilcox Company, The. Precision boring grooving and recessing head. 3,461,752, 8-19-69, Cl. 77-58.
Kielsmeier, Elwood W.; and Paynter, William D., to Mayer, Oscar, & Co., Inc. Collagen fiber coated product and method and apparatus for forming same. 3,473,190, 10-21-69, Cl. 17-41.
Kiemele, Melvin; and Bergen, Henry J. Spring-loaded hoe. 3,477,515, 11-11-69, Cl. 172-96.
Kienast, Peter F.: *See*—
Bruning, Armin M.; and Kienast, Peter F.,3,445,191.
Kemeny, George A.; and Kienast, Peter F.,3,461,190.
Kienle, Robert N., to Uniroyal, Inc. Reaction product of a polyester, diisocyanate, ethylenically unsaturated alcohol and a urea linkage former. 3,457,326, 7-22-69, Cl. 260-858.
Kientz, Robert B.: *See*—
Lang, Oscar; and Kientz, Robert B.,3,485,108.
Kienzle Apparate G.m.b.H.: *See*—
Bottling, Manfred, 3,447,719.
Bottling, Manfred, 3,469,668.
Fichter, Manfred, 3,480,859.
Hilgendorf, Joachim; and Hasko, Froese, 3,477,064.
Kelch, Heinz; and Zimmermann, Hans, 3,469,775.
Kohmann, Willy, 3,420,165.
Muller, Helmuth; and Zimmermann, Hans, 3,482,774.
Schiller, Gerald; and Hilgendorf, Joachim, 3,448,417.
Tauchert, Klaus; Munster, Horst; Hettich, Bernhard; Konig, Gerhard; Hofheinz, Karlheinz; and Kade, Peter, 3,482,511.
Twardzik, Horst, 3,452,852.
Vogtlin, Karl, 3,434,152.
Kienzle, John F.; and De Bo, Maurice J. Portable platform scale. 3,465,838, 9-9-69, Cl. 177-256.
Kienzle Uhrenfabriken G.m.b.H.: *See*—
Barth, Manfred Frans, 3,425,210.
Glunz, Ernst, 3,457,719.
Haag, Albrecht, 3,422,618.
Haag, Albrecht, 3,433,009.

Haag, Albrecht, 3,447,312.
Schweizer, Walter, 3,483,738.
Siefert, Roland; and Odenbach, Heinz, 3,433,012.
Siefert, Roland; and Charrier, Rolf, 3,435,313.
Siefert, Roland, 3,460,340.
Siefert, Roland, 3,470,433.
Siefert, Roland, 3,477,224.
Siefert, Roland, 3,483,692.
Kiepe, Paul Edwin. Electrically operated musical device. 3,460,425, 8-12-69, Cl. 84-470.
Kier, Denney M.: *See—*
Needham, Donald G.; and Kier, Denney M.,3,475,354.
Kier, Lemont B.; and Keating, John W., to Wallace & Tiernan, Inc. Certain pseudo oxatriazole derivatives. 3,427,317, 2-11-69, Cl. 260-292.
Kiernan, Henry E. Vehicle and driver safety device. 3,431,995, 3-11-69, Cl. 180-82.
Kiernan, Henry E. Exhaust chute warmer for snow removal vehicle. 3,465,455, 9-9-69, Cl. 37-12.
Kiernan, John P.: *See—*
Morgan, Dean W.; Kiernan, John P.; and Bergman, Robert J.,3,470,548.
Kiernan, Joseph F., to Air Reduction Company, Incorporated. Plasma torch. 3,450,926, 6-17-69, Cl. 313-231.
Kiernan, Robert M. Commercial tricycle construction. 3,466,059, 9-9-69, Cl. 280-261.
Kieronski, John P., to Whitin Machine Works, Inc. Winding apparatus. 3,430,875, 3-4-69, Cl. 242-18.
Kieronski, John P., to Whitin Machine Works, Inc. Cam mechanism. 3,451,277, 6-24-69, Cl. 74-57.
Kieronski, John P.; and Miller, Harry B., to Whitin Machine Works, Inc. Yarn guide assembly. 3,451,640, 6-24-69, Cl. 242-158.3
Kierstead, Richard Wightman, to Hoffmann-La Roche Inc. 16-Oxasteroids. 3,448,123, 6-3-69, Cl. 260-346.2
Kierstead, Richard Wightman; and Lemahieu, Ronald Andrew, to Hoffmann-La Roche Inc. Synthesis of hydroxycyclopenten-1-ones. 3,484,489, 12-16-69, Cl. 260-586.
Kies, Frederick K.: *See—*
Schelleng, Robert D.; and Kies, Frederick K.,3,485,683.
Kies, Robert M.; and Mente, Louis C., to General Electric Company. Serial X-ray cassette positioner. 3,465,144, 9-2-69, Cl. 250-66.
Kieser, Frank B., to General Electric Company. Reelable structure. 3,474,579, 10-28-69, Cl. 52-108.
Kieser, Hartmut: *See—*
Bruckner, Klaus; Beerstecher, Wolfgang; Kraft, Hans-Gunther; and Kieser, Hartmut,3,449,495.
Irmscher, Klaus; Kramer, Josef; Kraft, Hans-Gunter; and Kieser, Hartmut,3,471,520.
Kieserling, Th., & Albrecht: *See—*
Goeke, Alfons, 3,434,337.
Lorenz, Horst, 3,422,652.
Lorenz, Horst, 3,426,627.
Schweer, Wilhelm; Krafft, Erich; and Lorenz, Horst, 3,486,403.
Kiesler, Allan; Moffatt, William G.; and Walker, James L., to General Electric Company. Process of making aluminum bonded stainless steel article. 3,465,423, 9-9-69, Cl. 29-527.7
Kieslich, Klaus; Kerb, Ulrich; and Raspe, Gerhard, to Schering AG. Δ1,4-16α-Methyl steroids. 3,426,128, 2-4-69, Cl. 424-243.
Kiesling, Charles A.: *See—*
Granber, Mauritz L.; and Kiesling, Charles A.,3,466,645.
Kiesow, Helmut; and Purps, Heinz Dieter, to U.S. Philips Corporation, mesne. Bistable trigger circuit. 3,453,454, 7-1-69, Cl. 307-292.
Kiessling, Hans-Joachim: *See—*
Dalibor, Horst; and Kiessling, Hans-Joachim,3,474,076.
Kiester, George S.; and Short, R Stanford, to Aro Corporation, The. Pneumatic motor structure. 3,465,646, 9-9-69, Cl. 91-121.
Kiester, George S.; and Short, R Stanford, to Aro Corporation, The. Automatic power tool. 3,477,521, 11-11-69, Cl. 173-12.
Kietz, Hans; and Johannsen, Karl Emil, to Krupp Fried. Gesellschaft mit beschrankter Haftung. Support for echo sounders. 3,473,500, 10-21-69, Cl. 114-0.5
Kievit, John C., to General Electric Company. Gearing assemblies. 3,442,444, 5-6-69, Cl. 230-215.
Kiewit, Jack L., to United States of America, Interior. Sealing strips for concrete slabs. 3,434,401, 3-25-69, Cl. 94-18.
Kifer, David E., to Oatey Co. Counter flashing. 3,436,880, 4-8-69, Cl. 52-58.
Kiff, Ben W., to Union Carbide Corporation. Purification of formic acid and propionic acid. 3,449,415, 6-10-69, Cl. 260-540.
Kiff, Ben W., to United States Rubber Company. Purification of formic acid. 3,450,754, 6-17-69, Cl. 260-542.
Kiff, Ben W.; and Cox, Norman R., to Union Carbide Corporation. Oxidation catalyst and process for using the same. 3,440,180, 4-22-69, Cl. 252-439.
Kiff, Ben W.; and Cox, Norman R., to Union Carbide Corporation. Oxidation of 1,2-olefins to oxygenated products. 3,467,716, 9-16-69, Cl. 260-604.
Kiff, Harvey L. Filtering device. 3,447,601, 6-3-69, Cl. 165-119.
Kiffmeyer, William W., to Allen-Bradley Company. Stabilized control circuit. 3,460,000, 8-5-69, Cl. 317-148.5
Kifor, Harry T.: *See—*
Fisher, Richard R.; Kifor, Harry T.; and Tschudy, Donald B.,3,442,996.
Kifor, Harry T.; Sprick, Walter F.; Musser, Lester W.; and Levesque, Charles R., to Goodyear Aerospace Corporation. Aircraft dispenser pod having self-sealing ejection tubes. 3,430,533, 3-4-69, Cl. 89-1.5
Kightley, Raymond John: *See—*
Keel, David John Vincent; and Kightley, Raymond John,3,449,167.
Kihara, Nobutoshi, to Sony Corporation. Tape guide apparatus for helical scan recorders. 3,435,154, 3-25-69, Cl. 179-100.2
Kihara, Nobutoshi, to Sony Corporation. Skip field recording and reproducing system with modified vertical sync signal. 3,470,315, 9-30-69, Cl. 178-6.6
Kihara, Nobutoshi, to Sony Corporation. Skip field recording and reproducing system with vertical sync signal generation. 3,470,316, 9-30-69, Cl. 178-6.6
Kihara, Nobutoshi, to Sony Corporation. Horizontal sync pulse generation for video record- ing employing magnetic gear wheel. 3,470,317, 9-30-69, Cl. 178-6.6
Kihara, Nobutoshi; and Wada, Yuji, to Sony Corporation. Single motor magnetic tape recording and/or reproducing system. 3,431,353, 3-4-69, Cl. 178-6.6
Kihara, Toshihiko; Jono, Kazuo; and Fukuma, Noboru, to Asahi Kasei Kogyo Kabushiki Kaisha. Apparatus for stretching synthetic fibers. 3,422,491, 1-21-69, Cl. 18-1.
Kihlberg, Gunnar A., to Jungner Instrument AB. Circuit devices for converting a direct current voltage into a stepped alternating current voltage. 3,469,172, 9-23-69, Cl. 321-9.
Kihlberg, Gunnar A.; and Reit, Henry E.Remote control system for power plant preferably for the direct control of a ship's main propulsion power plant from the ship's bridge. 3,426,532, 2-11-69, Cl. 60-105.
Kiji, Jitsuo: *See—*
Tsuji, Jiro; Kiji, Jitsuo; Morikawa, Masanobu; and Imamura, Shinzo,3,427,344.
Kijima, Shizumasa; and Konita, Takeshi, to Eisai Co., Ltd. Process for the production of alkaline earth metal salts of tocopherol dibasic acid hemiesters. 3,432,525, 3-11-69, Cl. 260-345.5
Kijima, Shizumasa: *See—*
Nakamura, Tetsuya; and Kijima, Shizumasa,3,459,774.
Kijinski, Gerald. Automatic window washing system. 3,454,976, 7-15-69, Cl. 15-250.01
Kikindai, Tivadar; and Burgaud, Jean Loup, to Saint-Gobain Techniques Nouvelles. Method and apparatus for the separation of phases by gaseous flotation. 3,479,281, 11-18-69, Cl. 210-44.
Kikinis, Alexander, to Sulzer Brothers, Ltd. Apparatus for regulating the recirculation of working medium in a once-through force- flow steam generator. 3,478,726, 11-18-69, Cl. 122-406.
Kikkawa, Shoichi: *See—*
Matsuda, Sumio; and Kikkawa, Shoichi,3,440,255.
Kikkoman Shoyu Co., Ltd.: *See—*
Mogi, Shichizaemon; Toei, Ryozo; and Yamaguchi, Masaichiro, 3,456,575.
Kikuchi, Hideyuki: *See—*
Seno, Kenji; Nozawa, Koichi; Tanaka, Nobuyuki; and Kikuchi, Hideyuki,3,431,403.
Kikuchi, Hisaei: *See—*
Ito, Giichi; Takamura, Masao; Kato, Katsuhiro; and Kikuchi, Hisaei,3,431,519.
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki,3,464,039.
Kikuchi, Hisahide: *See—*
Takamura, Masao; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisahide; and Mitsuhashi, Sadayuki,3,487,344.
Kikuchi, Iwao: *See—*
Ushikubo, Tokuzi; and Kikuchi, Iwao,3,444,424.
Kikuchi, Tatsuhiko: *See—*
Okuya, Eitaro; Sakaguchi, Adio; Komatsu, Kouei; Kikuchi, Tatsuhiko; Yasunaga, Hidetoshi; and Andueda, Kenichi,3,432,515.
Kikuchi, Ukichi: *See—*
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; Akiyama, Mitsuo; and Kikuchi, Ukichi,3,420,592.
Kikukawa, Ryosuke, to Bridgestone Tire Company Limited. Submerged floatable hoses for transporting oil and other liquids on the sea. 3,426,803, 2-11-69, Cl. 138-114.
Kikumoto, Tomichi, to Komiyama, Eizo, mesne. Banking system. 3,455,577, 7-15-69, Cl. 283-57.
Kilander, Sven Gustav Ingemar: *See—*
Bjork, Harold John Carl; and Kilander, Sven Gustav Ingemar,3,478,172.
Kilb, Philipp, to Teves, Alfred GmbH. Vacuum-assist power brake. 3,470,695, 10-7-69, Cl. 60-54.5
Kilbane, John K., to Allis-Chalmers Manufacturing Company. Wear sensing means for rotary compressor. 3,463,384, 8-26-69, Cl. 230-138.
Kilbourn, Eugene Le Roy; and Barker, James M., to H & H Engineering Div., Baker Manufacturing Co. Countermounted galley pump. 3,425,358, 2-4-69, Cl. 103-178.

Kilbourn, Eugene L., to Progressive Dynamics, Inc. Pressure pump with gauge. 3,442,443, 5-6-69, Cl. 230-172.
Kilbride, William R. Vehicle shelter and article carrier. 3,431,922, 3-11-69, Cl. 135-1.
Kilby, Claude William; and Smith, James Gerald, to Du Pont de Nemours, E. I., and Company. Apparatus for applying an electrostatic charge to fibrous material. 3,456,156, 7-15-69, Cl. 317-4.
Kilby, Jack S.: *See—*
Hyltin, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D.,3,436,604.
Kilby, Jack S., to Texas Instruments, Incorporated. Capacitor for miniature electronic circuits or the like. 3,434,015, 3-18-69, Cl. 317-101.
Kilby, Jack S., to Texas Instruments, Incorporated. Semiconductor structure fabrication. 3,435,516, 4-1-69, Cl. 29-588.
Kilcup, Dillon K. Roller back chair. 3,480,007, 11-25-69, Cl. 128-58.
Kilcup, Dillon K.: *See—*
Komberec, Harold L.; Kilcup, Dillon K.; and Smith, Alfred T.,3,472,181.
Kile, Otho, to Donnelley, R. R., & Sons Company. Apparatus for handling packs of printed signatures. 3,445,017, 5-20-69, Cl. 214-309.
Kiley, Renee S. Elements with base having recesses for storing or standing same. 3,422,563, 1-21-69, Cl. 46-17.
Kilgard, Walter W.: *See—*
Pfrank, James Francis; Kilgard, Walter W.; and Norcross, Harold W.,3,448,629.
Kilgore, Lee A.; and Keay, Frederick W., to Westinghouse Electric Corporation. Electrical control systems with stabilizing control means. 3,474,323, 10-21-69, Cl. 322-19.
Kilgore, Marion D., to Dresser Industries, Inc. Bridging tool. 3,420,304, 1-7-69, Cl. 166-114.
Kilgore, Marion D.; and Pumpelly, Robert C., to Dresser Industries, Inc. Retrievable bridge plug. 3,434,538, 3-25-69, Cl. 166-123.
Kilgore, Marion D.: *See—*
Tucker, Andrew J.; Kilgore, Marion D.; Crow, Morgan L.; and Simpson, Harry E.,3,460,616.
Kilgore, Ronald V., to Veuvius Crucible Company. Coated stopper head for controlling outflow of molten metal through the nozzle of a bottom pour receptacle. 3,472,432, 10-14-69, Cl. 222-541.
Kilgour, Gilbert Innes; and Ziegler, George Edward, to United Merchants and Manufacturers, Inc. Spiral apparatus for the fluid treatment of fabrics in roped form. 3,460,362, 8-12-69, Cl. 68-176.
Kilian, Rolf: *See—*
Ratzsch, Manfred; Grundmann, Horst; and Kilian, Rolf,3,441,628.
Ratzsch, Manfred; Grundmann, Horst; Kilian, Rolf; and Reinhardt, Helmut,3,431,250.
Killbery Industries, Ltd.: *See—*
Reimer, Victor W., 3,468,109.
Killbery, William J.; and Reimer, Victor W., to Killbey Industries, Ltd. Pull-type swather. 3,457,709, 7-29-69, Cl. 56-23.
Killbey Industries, Ltd.: *See—*
Killbery, William J.; and Reimer, Victor W., 3,457,709.
Killebrew Engineering Corporation: *See—*
Killebrew, Joseph B., 3,437,076.
Killebrew, Joseph B., to Killebrew Engineering Corporation. Energy conversion apparatus and system. 3,437,076, 4-8-69, Cl. 122-7.
Killen, William Robert, Jr.; and Capuano, Daniel Vincent. Crown Chemical Corporation Method of making elastic polyurethane filamentary material. 3,441,639, 4-29-69, Cl. 264-184.
Killen, William S. Backguard for tractor. 3,463,508, 8-26-69, Cl. 280-152.
Killian, Gerald I. Arrow draw checking device. 3,463,117, 8-26-69, Cl. 116-114.
Killian, Stanley C., to Interpace Corporation, mesne. Power line support system using bushing insulators for narrow right-of-way. 3,487,158, 12-30-69, Cl. 174-43.
Killias, Rudolf, to Lins, Albert. Radiator valve. 3,438,574, 4-15-69, Cl. 236-42.
Killiner, Arthur Thomas: *See—*
Conner, Charles Irvine; and Killiner, Arthur Thomas,3,449,542.
Killinger, Karl H.; and Tullman, Edward J., to Singer Company, The. Quick release presser feet. 3,457,889, 7-29-69, Cl. 112-240.
Killius, Robert J.; and Wiesenborn, Roy W., to Monsanto Company. Antichatter lubrication. 3,444,960, 5-20-69, Cl. 184-6.
Killmeyer, Charles W.; and Eilerman, George E., to PPG Industries, Inc. Novel reaction product and use thereof as a glass fiber size. 3,459,585, 8-5-69, Cl. 117-76.
Killoren, Richard J. Marble game device with troughs. 3,460,833, 8-12-69, Cl. 273-120.
Killpatrick, Joseph E., to Honeywell Inc. Random bias for laser angular rate sensor. 3,467,472, 9-16-69, Cl. 356-106.
Kilmarx, Louis E., to Scovill Manufacturing Company. Bridge washer. 3,464,309, 9-2-69, Cl. 85-36.
Kilmer, Earl E.: *See—*
Montgomery, Rayner A.; and Kilmer, Earl E.,3,469,733.
Kilmer, Lauren G., to Sinclair Research, Inc., mesne. Seismic wave generator with venting valve. 3,422,447, 1-14-69, Cl. 181-0.5
Kilmer, Lauren G., to Sinclair Oil Corporation. Gas exploder seismic source with cavitation erosion protection. 3,478,838, 11-18-69, Cl. 181-0.5
Kilmer, Lauren G., to Sinclair Research, Inc. Seismic wave generating apparatus. 3,480,102, 11-25-69, Cl. 181-0.5
Kilmer, Lauren G., to Sinclair Research, Inc. Method of generating repetitive seismic shock waves. 3,480,103, 11-25-69, Cl. 181-0.5
Kilmer, Lauren G.: *See—*
Szasz, Stephen E.; and Kilmer, Lauren G.,3,462,228.
Kilmer, William A., to Hardinge Brothers, Inc. Turret construction. 3,422,710, 1-21-69, Cl. 82-36.
Kilpatrick, David D., to United States of America, Navy. Surrogate viewing system. 3,435,452, 3-25-69, Cl. 343-6.
Kilpatrick, Robert G.: *See—*
Bacon, William D., Jr.; and Kilpatrick, Robert G.,3,431,003.
Kilpert, Richard: *See—*
Bauer, Richard H.; and Kilpert, Richard,3,439,075.
Bauer, Richard H.; and Kilpert, Richard,3,480,493.
Kilpert, Richard; and Bauer, Richard H., to Esso Research and Engineering Company. Liquid skimming device. 3,426,902, 2-11-69, Cl. 210-179.
Kilpert, Richard; Winsor, Edward J.; and Bauer, Richard H., to Esso Research and Engineering Company. Sprayed internally insulated pipe. 3,425,455, 2-4-69, Cl. 138-143.
Kilsheimer, John R.: *See—*
Foster, Harold M.; and Kilsheimer, John R.,3,467,753.
Kilsheimer, John R.; and Kremer, Ross A., to Mobil Oil Corporation. Process for the production of N,N-dialkylamides. 3,468,919, 9-23-69, Cl. 260-404.
Kilthau, Gustave Frederick. Ion-exchange or chemical interraction plastic form. 3,464,798, 9-2-69, Cl. 23-253.
Kim, Charles W.: *See—*
Hall, John N.; and Kim, Charles W.,3,470,685.
Kim, Charles W., to Hercules Incorporated. Method of making synthetic textile yarn. 3,470,594, 10-7-69, Cl. 28-72.
Kim, Charles W., to Bancroft, Joseph & Sons Co. Method of making limited stretch bulked yarns. 3,472,717, 10-14-69, Cl. 156-148.
Kim, Charles W.; and Samluk, Stanley D., to Hercules Incorporated. Making synthetic filaments from fibrillated film. 3,470,285, 9-30-69, Cl. 264-147.
Kim, Chung Sul Youn, to Georgia-Pacific Corporation. Lignosulfonate derivative and a process for its preparation. 3,438,959, 4-15-69, Cl. 260-124.
Kim, Chung Sul Youn, to Georgia-Pacific Corporation. Lignosulfonamide and a process for its preparation. 3,438,960, 4-15-69, Cl. 260-124.
Kim, Dong H.: *See—*
Santilli, Arthur A.; and Kim, Dong H.,3,452,018.
Kim, George A., to Teletype Corporation. Magentic actuator and latch. 3,432,784, 3-11-69, Cl. 335-254.
Kim, James K. S.: *See—*
Holub, Fred F.; Keane, John J.; and Kim, James K. S.,3,477,978.
Kim, Jong-Dok, to Siemens Aktiengesellschaft. Arrangement for the reading of sheet-shaped record carriers. 3,430,034, 2-25-69, Cl. 235-61.11
Kim, Kee Hyong, to Air Reduction Company, Incorporated. Method of making electrical resistor recrystallization. 3,442,822, 5-6-69, Cl. 252-518.
Kim, Kee W.: *See—*
Grove, Marvin H.; and Kim, Kee W.,3,481,580.
Kim, Ki Tae, to Sherwin-Williams Company, The. Process and apparatus for evaluating liquid toners for electrostatic printing. 3,436,648, 4-1-69, Cl. 324-32.
Kim, Myung Hwan. Fluid mixing valve. 3,473,734, 10-21-69, Cl. 236-13.
Kim, Yung Ki; and Pierce, Ogden R., to Dow Corning Corporation. Functional perfluoroalkylene organosilicon compounds. 3,478,076, 11-11-69, Cl. 260-448.2
Kimball & Stark, Inc.: *See—*
Kimball, Howard M., 3,439,764.
Kimball, Betty M. Ostomy garment. 3,468,310, 9-23-69, Cl. 128-283.
Kimball, Howard M., to Kimball & Stark, Inc. Power caster for moving trailers. 3,439,764, 4-22-69, Cl. 180-12.
Kimball, James L.; Tompkins, William R.; and Ahrens, Harold R., to Cohu Electronics, Inc. System for coupling one or more of a plurality of output devices such as television monitors to one of a plurality of input devices such as television cameras. 3,426,145, 2-4-69, Cl. 178-6.8
Kimball, John A., Jr.: *See—*
Flaherty, Robert J., Jr.; Walker, Henry P.; and Kimball, John A., Jr.,3,436,569.
Kimball, John G., to Garrett Corporation, The. Environmental system for preservation of perishables. 3,447,334, 6-3-69, Cl. 62-64.
Kimball, Lawrence W.: *See—*
Menelly, Richard A.; and Kimball, Lawrence W.,3,457,447.
Kimball, Peter G., to Metalite, Inc. Doppler system oscillator circuit. 3,440,650, 4-22-69, Cl. 343-5.

Kimball Piano & Organ Co.: *See—*
Welsh, Alan B.; and Miller, Larry William, 3,456,546.
Kimball, W. W., Company: *See—*
Slaats, Mathew A.; and West, Roger T., 3,472,110.
Kimball, William H.: *See—*
Westeren, Herbert W.; and Kimball, William H.,3,467,366.
Westeren, Herbert W.; Kimball, William H.; and Scotto, Vincent,3,431,346.
Kimbell, Charles L. Gas detector. 3,464,799, 9-2-69, Cl. 23-254.
Kimber, Diane W. Toilet lid lock. 3,477,070, 11-11-69, Cl. 4-253.
Kimber, Erich Voldemar, to Atlas Copco Aktiebolag. Mounting means for drill booms. 3,459,394, 8-5-69, Cl. 248-2.
Kimber, Erich Voldemar, to Atlas Copco Aktiebolag. Drill boom with rotary adjusting head. 3,467,201, 9-16-69, Cl. 173-36.
Kimber, Melvin R. Wedge-cutting fixture for a table saw. 3,465,797, 9-9-69, Cl. 143-169.
Kimber, Melvin R. Wedge-cutting fixture for a radial arm saw. 3,466,025, 9-9-69, Cl. 269-53.
Kimberley, John A., to AMBAC Industries, Incorporated. Variable venturi carburetor. 3,464,803, 9-2-69, Cl. 48-180.
Kimberley, John A.: *See—*
Rosenberg, Merton I.; and Kimberley, John A.,3,435,395.
Kimberlin, Charles Newton, Jr.: *See—*
Gladrow, Elroy Merle; and Kimberlin, Charles Newton, Jr.,3,449,265.
Kimberlin, Charles Newton, Jr.; Ellert, Henry George; and Oldweiler, Morey E. Production of coke. 3,459,655, 8-5-69, Cl. 208-53.
Voorhies, Alexis, Jr.; Kimberlin, Charles Newton, Jr.; and Gladrow, Elroy Merle,3,480,539.
Kimberlin, Dan W., to General Electric Company. Bearings of the ring-oiled type. 3,420,588, 1-7-69, Cl. 308-128.
Kimberly-Clark Corporation: *See—*
Anderson, Richard D., 3,425,534.
Anderson,Richard D., 3,461,766.
Appel, David W., 3,431,602.
Banks, Charles T., 3,477,658.
Bernardin, Leo J., 3,434,918.
Bernardin, Leo J., 3,455,778.
Champaigne, John F., Jr., 3,460,536.
Chung, Raymond, 3,440,135.
Crockford, Joseph R., 3,469,286.
Endres, Dan Darold, 3,441,021.
Frick, Richard H., 3,462,043.
Fuerst, Milton J., 3,430,284.
Grangaard, Donald H., 3,454,477.
Grangaard, Donald H., 3,459,652.
Grangaard, Donald H., 3,462,351.
Grangaard, Donald H., 3,477,940.
Grupe, Edward Howard; and Hechtman, John Franklin, 3,428,517.
Hechtman, John F.; and Bornslaeger, Stephan R., 3,464,848.
Heinz, Kenneth J.; and Hintz, Elmer J., 3,438,295.
Lewis, Frank M., Jr., 3,424,153.
Lewis, Frank M., Jr.; and Wideman, Ronald H., 3,424,643.
Mattes, William J.; and Skora, Robert F., 3,456,851.
Nelson, Herbert C.; and Appel, David W., 3,440,136.
Planner, Thomas H., 3,456,843.
Planner, Thomas H., 3,456,844.
Russell, Roger W.; and Strong, Doyle L., 3,440,137.
Sanford, Charles L., 3,470,063.
Schwartz, Theodore F., 3,456,640.
Schweitzer, William P.; and Flaxman, Nathan, 3,430,634.
Sewell, Edgar F.; and Selke, William A., 3,480,847.
Sokolowski, Robert C.; and Stumpf, Robert J., 3,465,399.
Sokolowski, Robert C.; Lewis, Frank M., Jr.; and Hrubecky, Frederick J., 3,484,330.
Steber, Anthony J.; and Weber, Robert E., 3,427,971.
Thomas, Gordon D., 3,465,377.
Thomas, Gordon D., 3,477,084.
Weber, Robert E., 3,474,053.
Weber, Robert E., 3,478,716.
Whitehead, Howard A.; and Rightor, Edward, Jr., 3,424,159.
Whitehead, Howard A.; and Rightor, Edward, Jr., 3,428,044.
Kimble, Harry E., to United States of America, Atomic Energy Commission. Irradiation device for providing a constant dose rate. 3,432,665, 3-11-69, Cl. 250-106.
Kimble, Harry E.; and Reinhardt, Paul W. Method of attracting and netting fish. 3,478,460, 11-18-69, Cl. 43-4.5
Kime, Robert C., Jr.: *See—*
Praglin, Julius; and Kime, Robert C., Jr.,3,474,347.
Kime, Warren E. Musical practice device. 3,447,415, 6-3-69, Cl. 84-465.
Kimm, Willi. Impregnating bandage for wood. 3,420,617, 1-7-69, Cl. 21-62.
Kimmel, Donald S.: *See—*
Healey, Robert J.; and Kimmel, Donald S.,3,437,905.
Kimmel, Elias: *See—*
Edlein, Saul; Kasanof, David R.; and Kimmel, Elias,3,471,422.
Kimmel, Irvine. Door structure. 3,423,878, 1-28-69, Cl. 49-501.
Kimmel, Milton J.: *See—*
Gorbatenko, George G.; Jursik, James; Kimmel, Milton J.; Razi, Syed; and Wilson, Norman D.,3,460,131.
Kimmel, William K., to General Motors Corporation. Gas turbine fuel metering. 3,446,015, 5-27-69, Cl. 60-39.28
Kimmig, Emil: *See—*
Hasselkuss, Eugen; and Kimmig, Emil,3,447,884.
Hasselkuss, Eugen; and Kimmig, Emil,3,447,885.
Kimpton, William Harry. Beaming machine. 3,460,771, 8-12-69, Cl. 242-18.
Kimtantas, Charles: *See—*
Rice, Charles F.; and Kimtantas, Charles,3,470,322.
Kimton, Inc.: *See—*
Fulton, Fred D., 3,477,182.
Kimura, Akio: *See—*
Nishizawa, Yoshihiko; Nakagawa, Masataka; and Kimura, Akio,3,444,236.
Kimura, Eiichi. Cap for aerosol container. 3,454,200, 7-8-69, Cl. 222-402.1
Kimura, Eugene Tatsuru: *See—*
Swett, Leo Ralph; Ratajczyk, James Daniel; and Kimura, Eugene Tatsuru,3,476,748.
Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru,3,424,758.
Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru,3,450,694.
Kimura, Hirokazu: *See—*
Tamura, Hifumi; and Kimura, Hirokazu,3,467,057.
Kimura, Hirokazu; Tamura, Hifumi; Maki, Michiyoshi; and Higuchi, Hisayuki, to Hitachi, Ltd. Scanning electron microscope. 3,474,245, 10-21-69, Cl. 250-49.5
Kimura, Ichiro; and Nagata, Takeo, to Hitachi, Ltd. Device operative in accordance with differential pressure. 3,468,332, 9-23-69, Cl. 137-85.
Kimura, Jun; Kudoh, Hiroshi; and Ikeda, Toshimichi, to Hitachi, Ltd. Device for automatically regulating the length of brake band in band brake. 3,473,632, 10-21-69, Cl. 188-77.
Kimura, Kazuo: *See—*
Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken,3,450,599.
Tanaka, Katsunobu; Kimura, Kazuo; Inuzuka, Keiichi; and Tokoro, Yoh,3,486,980.
Kimura, Kenji: *See—*
Ozeki, Saburoji; Kimura, Kenji; Shimasaki, Soichi; Izuhara, Torao; Kadota, Osamu; and Sakurai, Kozi,3,444,806.
Kimura, Kenjiro; Negoro, Akio; Kojima, Yasuo; and Saiji, Tsutomu. Timepiece using a solar battery as the power source. 3,427,797, 2-18-69, Cl. 58-23.
Kimura, Koya, to Toshiba Kakai Kabushiki Kaisha. Apparatus for detecting distance of linear movement. 3,444,542, 5-13-69, Cl. 340-196.
Kimura, Minondo: *See—*
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo,3,428,555.
Kimura, Noboru: *See—*
Gerlach, Richard K.; Melnick, Robert A.; and Kimura, Noboru,3,423,744.
Kimura, Shiro; Ikeda, Teppei; Yamagishi, Kikuo; and Kobayashi, Teruo, to Fuji Shashin Film Kabushiki Kaisha. Photographic light sensitive elements. 3,475,173, 10-28-69, Cl. 96-84.
Kimura, Shoji: *See—*
Mori, Kan; Kawakami, Masato; Sugihara, Yasumi; Kimura, Shoji; Shibata, Tooru; and Kogure, Akira,3,466,272.
Kimura, Shuji: *See—*
Fukuoka, Shigetada; and Kimura, Shuji,3,470,803.
Kimura, Takaaki: *See—*
Shimotsuma, Teruo; Sano, Kazuo; and Kimura, Takaaki,3,458,134.
Kimura, Takeo: *See—*
Kominami, Naoya; Nakajima, Hitoshi; Watanabe, Itaru; Kimura, Takeo; and Sakurai, Tokio,3,465,028.
Kimura, Tutomu: *See—*
Tajima, Mataichi; and Kimura, Tutomu,3,462,221.
Kimura, Yoko. Process of making seasoning liquid. 3,475,183, 10-28-69, Cl. 99-145.
Kinaga, Thomas: *See—*
Shestag, Lowell Norman; and Kinaga, Thomas,3,474,446.
Kinait, Fred. Hub cap device. 3,426,561, 2-11-69, Cl. 70-259.
Kinast, Karl B., to United States of America, Navy, mesne. Pulsed magnetic deflection circuit. 3,421,045, 1-7-69, Cl. 315-27.
Kinberg, Benjamin. Extensible wheeled toy. 3,456,381, 7-22-69, Cl. 46-104.
Kincaid, Harry R., to International Research and Development Corporation. Arbor head tooling for connecting workpieces to drives. 3,475,969, 11-4-69, Cl. 73-487.
Kincaid, Jack M., to Petro-Tex Chemical Corporation. Polybutene-1 compositions containing lubricants and method of use therefor. 3,433,741, 3-18-69, Cl. 252-12.

Kincaid, Jack M., to Petro-Tex Chemical Corporation. Process and compositions for supporting materials in the presence of water. 3,440,168, 4r22-69, Cl. 252-12.6
Kincaid, Ronald David, to Warner & Swasey Company, The, mesne. Planetary coiler. 3,470,587, 10-7-69, Cl. 19-159.
Kincheloe, William L.; and Benton, Robert B., to FMC Corporation. Multi-pellet cartridge. 3,429,262, 2-25-69, Cl. 102-38.
Kincinas, John E.: *See—*
Chilenskas, Albert A.; and Kincinas, John E.,3,469,936.
Kincl, Fred A., to Syntex Corporation, mesne. 3-Desoxy-pregnenes. 3,461,142, 8-12-69, Cl. 260-397.4
Kind, Oscar: *See—*
Voigt, Wilhelm; and Kind, Oscar,3,425,346.
Kind, Ronald W., to General Motors Corporation. Fiber optic liquid level indicator. 3,466,928, 9-16-69, Cl. 73-293.
Kind, Wilhelm: *See—*
Hoelle, Hermann; Kind, Wilhelm; and Scholl, Hermann,3,452,727.
Kinder, Gotthard, to Voigtlander, A.G. Automatic film speed setting for cameras. 3,477,355, 11-11-69, Cl. 95-31.
Kindermann & Co., G.m.b.H.: *See—*
Karl, Leopold; and Engert, Hubert, 3,443,314.
Kindermann, Wilfred J.: *See—*
Hilsinger, Harry A., Jr.; and Kindermann, Wilfred J.,3,462,095.
Kindle, Robert W., to Uniroyal, Inc. Pneumatic tire compositions comprising ethylene/ propylene/dicyclopentadiene terpolymer rubber. 3,443,619, 5-13-69, Cl. 152-330.
Kindler, Horst: *See—*
Ritter, Heinrich; Heinrich, Ernst; von Brachel, Hanswilli; and Kindler, Horst,3,487,066.
von Brachel, Hanswilli; and Kindler, Horst,3,424,752.
Kindler, Hubert: *See—*
Boettger, Guenter; Guenthert, Paul; Kindler, Hubert; and Stanger, Hans,3,449,414.
Hiller, Karl-Heinz; Kindler, Hubert; Scholz, Heinrich; and Strohmeyer, Max,3,444,255.
Kindler, Hubert; and Schuler, Dominik, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous diazotization process. 3,423,391, 1-21-69, Cl. 260-141.
Kindlien, Gordon E.; and Rothi, Raymond C., to Ryan Equipment Company. Aerating and cultivating apparatus. 3,439,747, 4-22-69, Cl. 172-42.
Kindorf, David O.: *See—*
Kindorf, Robert D.; and Kindorf, David O.,3,463,428.
Kindorf, Robert D.; and Kindorf, David O.,3,486,726.
Kindorf, Orlan C. One-piece pipe strap with threaded adjusting means. 3,441,240, 4-29-69, Cl. 248-72.
Kindorf, Robert D.; and Kindorf, David O. Multi-purpose pipe clamp. 3,463,428, 8-26-69, Cl. 248-72.
Kindorf, Robert D.; and Kindorf, David O. Universal pipe clamp. 3,486,726, 12-30-69, Cl. 248-72.
Kindron, Robert R.; and Houg, George W., to FMC Corporation. Superbleaching of wood pulps. 3,462,344, 8-19-69, Cl. 162-72.
Kindrot, Erik Birger: *See—*
Aldrin, Henry Wilhelm; and Kindrot, Erik Birger,3,461,773.
Kinefac Corporation: *See—*
Greis, Howard A., 3,446,049.
Kinematics Limited: *See—*
Over, Charles E., 3,457,950.
Kinemotive Corporation: *See—*
Bucalo, Louis, 3,472,077.
Kinetics Container Corporation: *See—*
Wharton, Paul B., Jr., 3,474,950.
Kinetics Corporation: *See—*
Minto, Wallace L., 3,479,817.
Kinetics Corporation of California: *See—*
Conrad, Richard A., 3,474,198.
Williams, Lee C.; and Butler, Bertram F., 3,447,177.
King, Aden J., to King Laboratories, Inc. Getter assembly. 3,420,593, 1-7-69, Cl. 316-30.
King, Aden J. Method of producing constant low pressure of hydrogen in cathode ray tube. 3,460,974, 8-12-69, Cl. 117-97.
King, Arlie L. Fishing tool. 3,434,231, 3-25-69, Cl. 43-53.5
King, Bartley E.: *See—*
Polonsky, Samuel; and King, Bartley E.,3,432,625.
King, Brian Edmund, to British Oxygen Company Limited, The. Boundary follower using oscillating photocells. 3,441,735, 4-29-69, Cl. 250-202.
King, Cary Judson, III; and Clark, John Peter, III, to United States of America, Agriculture. System for freeze-drying. 3,453,741, 7-8-69, Cl. 34-5.
King, Charles Lee; and Johnson, John A., to Medimeter Corporation, The. Apparatus for moving fluid from one system to a second system. 3,464,359, 9-2-69, Cl. 103-38.
King, Charles R.; and Sanderson, William R., to Graflex, Inc. Photographic roll film holder. 3,421,424, 1-14-69, Cl. 95-34.
King, Clarence Anderson: *See—*
Le Noir, Fred White; and King, Clarence Anderson,3,438,101.
King, Claude F.; Martin, Norman M.; Mellott, Robert N.; and Wolfe, Ramon E., to Logicon, Inc. Electronic calculator. 3,487,369, 12-30-69, Cl. 340-172.5
King, Daniel L.: *See—*
Astley, Edward T.; King, Daniel L.; and Gold, Daniel,3,439,176.
King, David J.: *See—*
Rokaw, Sheldon A.; and King, David J.,3,445,704.
King, Donald Ray; Allen, James Robert; and Wittren, Richard Arthur, to Deere & Company. Power steering system. 3,428,143, 2-18-69, Cl. 180-79.2
King, Emanuel F.: *See—*
Carey, George F.; Chlupsa, John E.; Schloemer, Howard H.; and King, Emanuel F.,3,473,360.
King, Ernam F., to Bell Telephone Laboratories, Incorporated. Adjustable pulse generating circuit including pulse shaping means to decrease pulse rise and decay times. 3,459,971, 8-5-69, Cl. 307-268.
King, Faye H., to Societa Internazionale Fonovisione S.p.A. Facial mask. 3,447,537, 6-3-69, Cl. 128-410.
King, Forrest E., Jr. Stud type earring having dished plate attachment. 3,443,398, 5-13-69, Cl. 63-13.
King, Frank T., to Owens-Illinois, Inc. Luminescent devices. 3,475,638, 10-28-69, Cl. 313-92.
King, Franklyn D.; and Butler, De Forest D., to Square D Company. Convertible single-level to two-level junction box for underfloor wiring duct. 3,428,203, 2-18-69, Cl. 220-3.7
King, Garvis. Auxiliary self-dumping truck bed. 3,446,534, 5-27-69, Cl. 298-12.
King, Geoffrey, to Marconi Company Limited, The. Irises. 3,433,142, 3-18-69, Cl. 95-12.20
King, George E. S., to United States of America, Army. Electrical conductors with a heat resistant electrical insulation system. 3,462,544, 8-19-69, Cl. 174-113.
King, George G.: *See—*
Dietrich, Heinz J.; King, George G.; and Karabinos, Joseph V.,3,427,147.
King, George L.: *See—*
Gilbert, Everett A.; and King, George L.,3,440,541.
Gilman, Robert J.; and King, George L.,3,470,473.
King, George W., Limited: *See—*
Burrows, Arthur Thomas Charles, 3,431,867.
Sandbank, Carl Peter; King, George; and Marsh, Stanley Bruce,3,479,611.
King, Gordon van B., to Sperry Rand Corporation. Character recognition system. 3,469,263, 9-23-69, Cl. 340-146.3
King, Harold F.: *See—*
Drew, Laurance C.; and King, Harold F.,3,421,101.
King, Harold L. Walker for ascending and descending ramps and staircases. 3,455,313, 7-15-69, Cl. 135-45.
King, Harold O.: *See—*
Bohannon, William D., Jr.; and King, Harold O.,3,479,720.
King, Harry A., to Aerojet-General Corporation. Lightweight protective armor plate. 3,431,818, 3-11-69, Cl. 89-36.
King, Harry A., to Aerojet-General Corporation. Lightweight armor with laminate base member resistant to delamination. 3,444,033, 5-13-69, Cl. 161-38.
King, Harry J., to Hughes Aircraft Company. Fluid feed system. 3,443,383, 5-13-69, Cl. 60-202.
King, Harry J., to Hughes Aircraft Company. Electromagnetic liquid pump. 3,444,816, 5-20-69, Cl. 103-1.
King, Harry J.; Molitor, Jerome H.; and Ward, James W., to Hughes Aircraft Company. High voltage isolator for liquid feedline. 3,443,570, 5-13-69, Cl. 137-1.
King, J. W., to King Machinery & Sales Co., Inc. Earth-working device. 3,430,366, 3-4-69, Cl. 37-129.
King, Jack B., to General Motors Corporation. Temperature control arrangement. 3,444,847, 5-20-69, Cl. 123-122.
King, James D. Envelope container. 3,481,454, 12-2-69, Cl. 206-46.
King, James F., Jr., to Bahnson Company, The. Pulsation type traveling cleaners and the like. 3,486,184, 12-30-69, Cl. 15-312.
King, James F., to Clark Equipment Company. Torsion spring suspension system for vehicles. 3,466,058, 9-9-69, Cl. 280-124.
King, James Frank, Jr., to Bahnson Company, The. Automatic cleaning filtering apparatus. 3,483,675, 12-16-69, Cl. 55-290.
King, James Frank, Jr.; and Davis, William R., to Bahnson Company, The. Apparatus and method for removing concentration of particles in liquids. 3,454,484, 7-8-69, Cl. 204-186.
King, James Frank, to Bahnson Company, The. Vacuum impregnating apparatus. 3,476,078, 11-4-69, Cl. 118-30.
King, James Ping, to Pennsalt Chemicals Corporation. Halo-chromium salts of acids of phosphorus and their esters. 3,432,532, 3-11-69, Cl. 260-438.5
King, James Ping; and Block, Burton Peter, to Pennsalt Chemicals Corporation. Chromium phosphinate complexes. 3,449,367, 6-10-69, Cl. 260-329.
King, James Ping; Saraceno, Anthony Joseph; and Block, Burton Peter, to Pennsalt Chemicals Corporation. Inorganic polymers. 3,483,143, 12-9-69, Cl. 260-2.

King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M., to Eastman Kodak Company. Monobasically sulfated vinyl copolymers as silver halide stabilizers. 3,437,486, 4-8-69, Cl. 96-109.
King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M., to Eastman Kodak Company. Polysulfated aliphatic or cycloaliphatic alcohols as antifoggants. 3,475,175, 10-28-69, Cl. 96-109.
King, James R.: *See—*
Haist, Grant M.; and King, James R.,3,480,433.
Kennedy, James M.; and King, James R.,3,453,517.
King, Jay B., to Applied Dynamics, Inc. Computer circuits. 3,443,161, 5-6-69, Cl. 317-101.
King, Jerome, to Universal Oil Products Company. Process for producing an odorous isomer of diisopropyl dihydrocoumarin. 3,437,669, 4-8-69, Cl. 260-343.2
King, Jerome, to Universal Oil Products Company. Process for preparing diisopropyl-3, 4-dihydrocoumarins. 3,437,670, 4-8-69, Cl. 260-343.2
King, Joel D., to Texas Instruments, Incorporated. Neutrally buoyant hydrophone streamer. 3,480,907, 11-25-69, Cl. 340-9.
King, John H., Jr.; Tunis, Cyril J.; and Marcus, Mitchell P., to International Business Machines Corporation. Adaptive categorizer. 3,446,950, 5-27-69, Cl. 235-197.
King, John O., Jr. Blind fastener. 3,473,431, 10-21-69, Cl. 85-3.
King, John S. L. Watercraft mooring device. 3,464,214, 9-2-69, Cl. 61-48.
King, John T.: *See—*
Kirchner, Carl O.; and King, John T.,3,469,608.
King, Julian P., Jr.: *See—*
Klimmek, Norman; Melill, Joseph; King, Julian P., Jr.; Lorenz, Roy H.; and Hollingsworth, Frank H.,3,462,628.
King, Kenneth Francis: *See—*
Harris, Alexander Thomas; and King, Kenneth Francis,3,467,633.
King, Kenneth G.: *See—*
Duckitt, Harry; and King, Kenneth G.,3,428,868.
King, Kenneth G., to Westinghouse Brake and Signal Company, Limited. Control rectifier circuit including an arrangement for rendering a controllable rectifier non- conducting. 3,431,436, 3-4-69, Cl. 307-252.
King, Kenneth G., to Westinghouse Brake and Signal Company, Limited. Voltage regulating circuits with over-voltage and/ or over-current protection. 3,461,378, 8-12-69, Cl. 323-43.5
King, Kenneth G., to Westinghouse Brake and Signal Company, Limited. Controllable rectifier circuits providing energy recovery from commutation circuit. 3,474,322, 10-21-69, Cl. 321-45.
King Laboratories, Inc.: *See—*
King, Aden J., 3,420,593.
Scott, Frederick P., 3,457,448.
King, Lawrence, to Rosfor Mills Corporation. Apparatus for producing sandwich laminations. 3,454,449, 7-8-69, Cl. 156-497.
King, Leonard H.: *See—*
Wasserman, Seymour, 3,470,572.
King, Leonard T.: *See—*
Hansen, James W.; and King, Leonard T.,3,444,419.
King, Lewis E.: *See—*
Annunziata, Eugene J.; James, Robert S.; King, Lewis E.; and Pierce, Edwin B.,3,432,813.
Cooper, Jamexs; King, Lewis E.; and MacSorley, Olin L.,3,478,321.
King, Louis J.; and King, Ronald M., to Denver Spring Service, Inc. Swaybar for vehicles. 3,448,994, 6-10-69, Cl. 280-124.
King Machinery & Sales Co., Inc.: *See—*
King, J. W., 3,430,366.
King, Milner: *See—*
King, Roger M., 3,449,906.
King, Nobal E., Jr., to Hercules Incorporated. Zinc-rich coatings containing conductive carbon black. 3,446,770, 5-27-69, Cl. 260-41.5
King, Norman B., to Badger Company, Inc., The, mesne. Dehydrogenation of alkyl aromatic compounds in the presence of nickel-bearing alloy steels. 3,475,508, 10-28-69, Cl. 260-669.
King Oil Tools: *See—*
Grantom, Charles A., 3,433,488.
King, Paul A., to Union Carbide Corporation. Irradiated poly(ethylene oxide) and process therefor. 3,470,078, 9-30-69, Cl. 204-159.14
King, Paul A.: *See—*
Gemmill, Wayne J., Sr.; King, Paul A.; and Molinski, Victor J.,3,436,354.
Tinsley, Samuel W.; and King, Paul A.,3,432,342.
Tinsley, Samuel W.; and King, Paul A.,3,457,193.
King, Paul F., to Xerox Corporation. Automatic xerographic development control. 3,438,705, 4-15-69, Cl. 355-8.
King, Peter F., to Dow Chemical Company, The. Extruded article of magnesium-base alloy. 3,438,771, 4-15-69, Cl. 75-168.
King, Peter Patrick; and Potter, John Reginald, to Imperial Chemical Industries Limited. Catalytic converter. 3,458,289, 7-29-69, Cl. 23-288.
King, Peter Roderick; and Litchfield, Dennis, to Rolls-Royce Limited. Selective drive device. 3,439,552, 4-22-69, Cl. 74-353.
King, Peter: *See—*
Freeman, Frederick; and King, Peter,3,469,868.
King, Peter, to Rolls-Royce Limited. Coupling. 3,447,822, 6-3-69, Cl. 287-53.
King, Philip E.: *See—*
Wagner, Walter D.; King, Philip E.; Caloccia, Ernest; and Robbins, Robert,3,470,483.
King Radio Corporation: *See—*
Aker, John L., 3,456,257.
King, Richard G.: *See—*
Cloud, Charles E.; King, Richard G.; and George, James R.,3,478,492.
King, Robert E.: *See—*
Rumsey, Rollin Douglas; and King, Robert E.,3,424,406.
King, Robert S., to Fuller Company. Process and apparatus for chemical feed. 3,474,032, 10-21-69, Cl. 210-42.
King, Roderick V.: *See—*
Hendrickson, Richard F.; and King, Roderick V.,3,421,651.
Hendrickson, Richard F.; and King, Roderick V.,3,438,537.
Hendrickson, Richard F.; and King, Roderick V.,3,439,830.
Hendrickson, Richard F.; and King, Roderick V.,3,452,894.
Hendrickson, Richard F.; and King, Roderick V.,3,459,322.
Hendrickson, Richard F.; and King, Roderick V.,3,467,272.
King, Roger M., to King, Milner. Bracelets. 3,449,906, 6-17-69, Cl. 59-78.
King, Ronald M.: *See—*
King, Louis J.; and King, Ronald M.,3,448,994.
King, Rudy W., to Orbit Valve Company, mesne. Grooved valve seat for block and bleed valves. 3,473,554, 10-21-69, Cl. 137-312.
King, Walter B., to McDonnell Douglas Corporation, mesne. Flame arrestor. 3,472,419, 10-14-69, Cl. 220-88.
King, Walter D.: *See—*
Stanonis, David J.; King, Walter D.; and Esposito, Charles R.,3,475,823.
King, Willam M.: *See—*
Cannon, Charles R.; Cantor, Paul A.; and King, Willam M.,3,432,584.
King, William H., Jr., to Esso Research and Engineering Company. Moisture analyzer. 3,427,864, 2-18-69, Cl. 73-29.
King, William H., Jr., to Esso Research and Engineering Company. Integral heater piezoelectric devices. 3,478,573, 11-18-69, Cl. 73-26.
King, William H., to United States of America, Agriculture. Removal of mixed solvents containing water from defatted oilseed marc by means of treatment with a food grade acid. 3,459,555, 8-5-69, Cl. 99-17.
King, William H., to United States of America, Agriculture. Removal of mixed solvents containing water from defatted oilseed marc by using a food grade alkali under dehydrating conditions. 3,481,743, 12-2-69, Cl. 99-17.
King, William J., to Ion Physics Corporation. Method and apparatus for forming deposits on a substrate by cathode sputtering using a focussed ion beam. 3,472,751, 10-14-69, Cl. 204-192.
King, William M.; and Cantor, Paul A., to Aerojet-General Corporation. Reverse osmosis membrane composition and manufacture of the membrane. 3,444,286, 5-13-69, Cl. 264-49.
King, William R., to Anadarko Production Company. Automated meter reading system. 3,441,923, 4-29-69, Cl. 340-188.
King, William R., to Matthews, Jas. H., & Co. Printing wheel with yieldable surface. 3,467,010, 9-16-69, Cl. 101-376.
King-Seeley Thermos Co.: *See—*
Fuller, George W., 3,426,889.
Hanssen, Tore B., 3,467,308.
Nelson, Marcus L., 3,465,537.
Kingery, William D.: *See—*
Brook, Richard J.; and Kingery, William D.,3,475,309.
Campbell, William B.; and Kingery, William D.,3,449,071.
Kingham, Keith John, to Imperial Chemical Industries Limited. Apparatus for feeding flexible sacks and bags into an enclosure. 3,471,996, 10-14-69, Cl. 53-390.
Kingma, Cornelis S. J., to Honeywell G.m.b.H. Fuel valves with safety latching means. 3,476,130, 11-4-69, Cl. 137-66.
Kingmann-White, Inc.: *See—*
Nolte, Claude B., 3,422,680.
Kings Electronics Company, Inc.: *See—*
Jackson, Samuel H., 3,428,739.
Kingsberry Homes Corporation: *See—*
Groat, Marshall O., 3,443,303.
Groat, Marshall O., 3,479,734.
Kingsbery, Emery C.: *See—*
Fisher, Charles H.; Knoepfler, Nestor B.; Kingsbery, Emery C.; Cheatham, Robert J.; and Vix, Henry L. E.,3,483,570.
Kingsbury, Guy W.; and Haby, George H., to Abegg and Reinhold Co. Power slip. 3,457,605, 7-29-69, Cl. 24-263.
Kingsbury, L C James, to General Electric Company. Turntable braking mechanism for recording apparatus. 3,432,168, 3-11-69, Cl. 274-1.

Kingsbury Machine Tool Corporation: *See—*
Grover, Robert R., 3,459,069.
Kingsbury Technology Inc.: *See—*
Benson, Warren E., Jr.; Breen, Stanley; and Monaghan, Ralph, 3,465,243.
Breen, Stanley; and Benson, Warren E., Jr., 3,450,988.
Kingsford Company: *See—*
Olson, Edgar T., 3,483,134.
Kingsford-Smith, Charles A.: *See—*
Tykulsky, Alexander; and Kingsford-Smith, Charles A.,3,444,480.
Kingslake, Rudolf: *See—*
Johnson, James R.; Harvey, James E.; and Kingslake, Rudolf,3,441,338.
Kingsley, Eleanor V. Depository for articles. 3,455,621, 7-15-69, Cl. 312-211.
Kingsley, Kenyon W.: *See—*
Brown, Grover W.; and Kingsley, Kenyon W.,3,485,939.
Kingsley, Kenyon W., to Okonite Company, The. Electric cable with adhered polymeric insulation. 3,485,938, 12-23-69, Cl. 174-107.
Kingston, Arthur W. Sound film apparatus. 3,420,604, 1-7-69, Cl. 352-26.
Kingston, Derek, to Imperial Chemical Industries Limited. Polyester filaments and like structures. 3,472,608, 10-14-69, Cl. 8-100.
Kingston, Floyd E.: *See—*
Weaver, Harry E., Jr.; and Kingston, Floyd E.,3,474,294.
Kingston, Marjorie: *See—*
Senkewich, Alexander M., 3,447,186.
Kinjo, Hisao; and Suzuki, Toshi, to Victor Company of Japan Limited. Commutator switching system for rotating head recorders. 3,445,608, 5-20-69, Cl. 179-100.2
Kinkead, Alan: *See—*
Stone, Richard L.; and Kinkead, Alan,3,425,178.
Kinkead Industries, Incorporated: *See—*
O'Brien, George A., 3,422,464.
Walker, Patrick J., 3,476,428.
Kinkel, John F., to Borg-Warner Corporation. Balanced impedance network for applying bias and data signals to a recording head. 3,480,739, 11-25-69, Cl. 179-100.2
Kinkel, Lester J.; and McManus, Robert P., to United States of America, Navy. Pulse code modulated sounder system. 3,483,472, 12-9-69, Cl. 325-56.
Kinley, J. C., Company: *See—*
Kinley, Myron M., 3,424,244.
Kinley, Myron M., 3,472,535.
Kinley, John C.; Kinley, Myron M.; Anderson, Clifford E.; and Potter, Rossiter R. Safety assembly for impact-actuated well tool. 3,447,604, 6-3-69, Cl. 166-63.
Kinley, Myron M.: *See—*
Kinley, John C.; Kinley, Myron M.; Anderson, Clifford E.; and Potter, Rossiter R.,3,447,604.
Kinley, Myron M., to Kinley, J. C., Company. Collapsible support and assembly for casing or tubing liner or patch. 3,424,244, 1-28-69, Cl. 166-114.
Kinley, Myron M., to Kinley, J. C., Company. Automatic pipe slip apparatus. 3,472,535, 10-14-69, Cl. 285-145.
Kinna, Marlin A.: *See—*
Erickson, Porter W.; and Kinna, Marlin A.,3,440,120.
Kinnan, Frank R., to Henkels and McCoy Inc. Oscillating ground engaging instrument. 3,421,329, 1-14-69, Cl. 61-72.6
Kinnan, Frank R., to Henkels and McCoy, Inc. Articulated vehicle. 3,431,741, 3-11-69, Cl. 61-72.6
Kinnavy, James W., to Continental Can Company, Inc. Method of forming coated friction closures. 3,431,877, 3-11-69, Cl. 113-121.
Kinnavy, James W., to Continental Can Company, Inc. Dispensing container with collapsible compartment. 3,467,283, 9-16-69, Cl. 222-95.
Kinnavy, James W., to Continental Can Company, Inc. Tripletite friction closures. 3,476,287, 11-4-69, Cl. 220-42.
Kinnavy, James W.; and Buchanan, John J., to Continental Can Company, Inc. Venting means for containers. 3,450,305, 6-17-69, Cl. 220-89.
Kinne, Robert W., to Industrial Nucleonics Corporation. Formation inspecting arrangement. 3,435,242, 3-25-69, Cl. 250-219.
Kinne, Walter Earle. Metering pump. 3,447,468, 6-3-69, Cl. 103-38.
Kinner, Hans-Dieter, to Foxboro Company, The. Fluid diffusion amplifier. 3,457,934, 7-29-69, Cl. 137-81.5
Kinner, Hans-Dieter: *See—*
Hatch, Richard W., Jr.; and Kinner, Hans-Dieter,3,472,259.
Kinney, Alfred W.; and Barrett, Willis R., to Phillips Petroleum Company. Apparatus for securing cover material to containers. 3,457,699, 7-29-69, Cl. 53-373.
Kinney, David J.; Fagg, Jack R.; and Smith, Donald P., to Candy Equipment Company. Praline and confection depositor. 3,452,689, 7-1-69, Cl. 107-15.
Kinney, George C.: *See—*
Gribas, George J.; Kinney, George C.; and Cummings, Edwin, Jr.,3,460,547.
Kinney, James F.: *See—*
Motsavage, Vincent A.; and Kinney, James F.,3,453,056.
Kinney, John F., to Bendix Corporation, The. Compensated temperature sensor. 3,434,350, 3-25-69, Cl. 73-362.4
Kinney, John F.: *See—*
Morris, Robert L.; and Kinney, John F.,3,468,267.
Kinney, Layton C.; and Tompkins, Edwin H., to Monsanto Company, mesne. Method of making printed circuits. 3,451,813, 6-24-69, Cl. 96-36.2
Kinney, Layton F.: *See—*
Castro, Anthony J.; and Kinney, Layton F.,3,487,050.
Kinney, Lionel L.: *See—*
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.
Kinney, Lloyd J.Artist's pallet holder. 3,465,893, 9-9-69, Cl. 211-86.
Kinney, Mel E.; and Viola, Vito, to Friden, Inc. Mode selection for the control of a plurality of work sheets in a billing machine. 3,444,977, 5-20-69, Cl. 197-129.
Kinney, Richard J., to Halliburton Company. Parachute release device. 3,468,502, 9-23-69, Cl. 244-150.
Kinney, Robert E.: *See—*
Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L.,3,450,772.
Williams, Albert L.; and Kinney, Robert E.,3,476,815.
Kinney, Roland Walter; Neidleman, Saul Lewis; Weisenborn, Frank Lee; and Schwarz, John Samuel Paul, to Squibb, E. R., & Sons, Inc., mesne. Chemical compounds and methods for preparing the same. 3,462,487, 8-19-69, Cl. 260-559.
Kinney, Roland W.: *See—*
Di Cuollo, C John; Kinney, Roland W.; and Stewart, Richard C.,3,453,276.
Neidleman, Saul L.; Kinney, Roland W.; and Weisenborn, Frank L.,3,463,791.
Kinney, S. P., Engineers, Inc.: *See—*
Carr, Hugh B., 3,421,388.
Carr, Hugh B., 3,435,696.
Carr, Hugh B.; and Turocy, Elmer W., 3,442,484.
Kinney, Wilson L., to Marathon Oil Company. Well stimulation with hydrophilic fluids. 3,470,958, 10-7-69, Cl. 166-305.
Kinney, Wilson L.; and Jones, Stanley C., to Marathon Oil Company. Stimulation of producing wells with water- external micellar dispersions. 3,467,194, 9-16-69, Cl. 166-305.
Kinnon, Samuel J. G., to Mallory Battery Company of Canada Ltd. Pilfer resistant container. 3,464,577, 9-2-69, Cl. 217-65.
Kinoshita, Koichi: *See—*
Watanabe, Yoshiyuki; and Kinoshita, Koichi,3,457,070.
Kinoshita, Shukuo; and Mukai, Noboru, to Kyowa Hakko Kogyo Co., Ltd. Halotyrosines as plant root growth stimulants. 3,436,206, 4-1-69, Cl. 71-77.
Kinoshita, Takehiko; and Yatsurugi, Tatsuo, to Nihon Genshiryoku Kenkyujo. Neutron flux measuring device comprising a detector surrounded by a double-walled jacket containing neutron absorbing fluid. 3,444,374, 5-13-69, Cl. 250-83.1
Kinoshita, Tetsuo: *See—*
Ueda, Keizo; Ando, Satoshi; and Kinoshita, Tetsuo,3,463,847.
Kinoshita, Yoshio, to Kabushiki Kaisha Kokuei Kikai Seisakusho. Coin operated locking mechanism. 3,460,662, 8-12-69, Cl. 194-51.
Kinross, Rupert I.: *See—*
Gabriel, Ralph P.; and Kinross, Rupert I.,3,433,890.
Kins Developments Limited: *See—*
Waller, Roy A., 3,474,631.
Kinsel, Robert C.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,428,919.
Kinsell, Robert C.; and Matulich, Dan S., to Garrett Corporation, The. Automatic aircraft cabin pressure control system. 3,461,790, 8-19-69, Cl. 98-1.5
Kinsella, Frank V.: *See—*
Kircher, Charles E.; Jones, Robert J.; and Kinsella, Frank V.,3,475,504.
Kinsey, Dale Norman; and Hunnell, John W., to Riviana Foods Inc. Method of dewaxing rice oil. 3,481,960, 12-2-69, Cl. 260-424.
Kinsey, George Beverly, to Kidde, Walter & Company of Canada Ltd. Alarm monitoring system. 3,452,345, 6-24-69, Cl. 340-213.
Kinsey, Lewis R. Propeller structure. 3,426,852, 2-11-69, Cl. 170-156.
Kinsey, Lewis R. Building construction. 3,452,498, 7-1-69, Cl. 52-262.
Kinsinger, Herman Milton: *See—*
Kanagy, Jonas Jacob; and Kinsinger, Herman Milton,3,455,470.
Kinsler, Martin R.: *See—*
Barnett, Burton; and Kinsler, Martin R.,3,487,410.
Kinsley, Charles W. Injection system. 3,424,154, 1-28-69, Cl. 128-173.
Kinsley, David J.: *See—*
Biernson, George A.; and Kinsley, David J.,3,465,094.
Kinslow, William G., Jr., to Phillips Petroleum Company. Apparatus for sealing and severing parisons. 3,430,290, 3-4-69, Cl. 18-5.

Kinslow, William G., Jr., to Phillips Petroleum Company. Plastic container bottom of increased strength. 3,434,626, 3-25-69, Cl. 220-66.

Kinslow, William G., Jr., to Phillips Petroleum Company. Parison heating and transfer. 3,477,700, 11-11-69, Cl. 263-8.

Kinsman, Lester V., to Chevron Research Company. Method for running tubing using fluid pressure. 3,467,196, 9-16-69, Cl. 166-315.

Kinter, Malcolm L.: *See—*
Weissman, Ira; and Kinter, Malcolm L.,3,441,880.

Kintner, Edwin K., to Kinwell Development Company. Automatic valve. 3,426,799, 2-11-69, Cl. 137-625.48

Kintner, Edwin K., to Kinwell Development Company. Piston valve with O-ring seal retained by split ring. 3,426,998, 2-11-69, Cl. 251-324.

Kintner, Paul M., to Cutler-Hammer Inc. Extending pulse rate multiplication capability of system that includes general purpose computer and hard-wired pulse rate multiplier of limited capacity. 3,430,201, 2-25-69, Cl. 340-172.5

Kintzinger, Paul R., to Sinclair Research, Inc., mesne. Timing circuit providing prearranged sequences of output pulses. 3,486,121, 12-23-69, Cl. 328-62.

Kinugasa, Hiroaki: *See—*
Nishimura, Haruki; Kinugasa, Hiroaki; and Onishi, Kumio,3,468,889.

Kinugawa, Jiro: *See—*
Hatta, Ryozo; Kinugawa, Jiro; Yamamoto, Hiroichi; Sumina, Ikuo; Tamura, Bunzo; and Suzuki, Shigekazu,3,458,638.

Kinwell Development Company: *See—*
Kintner, Edwin K., 3,426,799.
Kintner, Edwin K., 3,426,998.

Kinyosha Company Limited: *See—*
Hojyo, Iwajiro, 3,469,292.

Kinzbach, Robert B.: *See—*
Broussard, Douglas E.; Barry, Donald W.; Kinzbach, Robert B.; and Kershner, Stuart G.,3,438,213.

Kinzelman, Gerald W., to United States of America, Army. Dual-channel system for setting digital electronic timers. 3,454,926, 7-8-69, Cl. 340-146.1

Kinzer, Jackson E., to North American Rockwell Corporation. Pressure-temperature sensor. 3,439,356, 4-15-69, Cl. 340-236.

Kinzie, George R., Jr.: *See—*
Lees, Sidney; and Kinzie, George R., Jr.,3,474,194.

Kinzler, Raymond C.; and Nestler, Gilbert C., to Koppers Company Inc. Ascension pipe cleaning apparatus in combination with a horizontal coke oven battery. 3,480,514, 11-25-69, Cl. 202-241.

Kinzly, Robert E., to Cornell Aeronautical Laboratory, Inc. Three-aperture optical interferometer. 3,487,227, 12-30-69, Cl. 250-237.

Kiper, Gerd, to Agfa-Gevaert Aktiengesellschaft. Exposure control device for photographic cameras. 3,439,595, 4-22-69, Cl. 95-10.

Kiper, Gerd, to Agfa-Gevaert Aktiengesellschaft. Manually and automatically operable camera. 3,447,431, 6-3-69, Cl. 95-10.

Kiper, Gerd, to Agfa-Gevaert Aktiengesellschaft. Exposure control for photographic cameras. 3,453,942, 7-8-69, Cl. 95-10.

Kiper, Gerd, to Agfa-Gevaert Aktiengesellschaft. Exposure control mechanism for photographic cameras. 3,470,802, 10-7-69, Cl. 95-31.

Kiper, Gerd; and von Wasielewski, Erwin, to Agfa-Gevaert Aktiengesellschaft. Shutter for photographic cameras. 3,463,072, 8-26-69, Cl. 95-53.

Kiper, Gerd: *See—*
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin,3,426,661.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl,3,465,656.

Kipfmiller, Billy G.: *See—*
Nelson, Kenneth E.; Kipfmiller, Billy G.; and Parizek, Earl,3,429,942.

Kiplinger, Dale V.: *See—*
Beatty, Ronald L.; and Kiplinger, Dale V.,3,471,314.

Kipp, Henry A., to Union Carbide Corporation. Method of bonding thermoplastics. 3,458,380, 7-29-69, Cl. 156-306.

Kipp, Kenneth W.: *See—*
Miller, Hubert B.; and Kipp, Kenneth W.,3,424,857.

Kippan, James A., to Delta Rope & Twine Limited, mesne. Monofilament twines. 3,446,002, 5-27-69, Cl. 57-140.

Kippenhan, B. William: *See—*
Carlock, Frank R.; Kippenhan, B. William; Lamoureux, William R.; and Lazarchick, Nicholas, Jr.,3,435,278.

Kipping, Vernon L. Wide field photography and projection. 3,420,605, 1-7-69, Cl. 352-69.

Kippur, Perry R.; and Bailey, Randal E., to Ansul Company, The, mesne. N-halotrichloroacetamidines. 3,428,681, 2-18-69, Cl. 260-564.

Kirakosiants, Gertruda Alexandrovna: *See—*
Veller, Vladimir Nikolaevich; and Kirakosiants, Gertruda Alexandrovna,3,466,977.

Kiraly, Philip Z., to Beloit Eastern Corporation. Quick adjustment knock-out rod. 3,448,488, 6-10-69, Cl. 18-2.

Kirby, Aubrey M., Jr.: *See—*
Surrena, Harland J.; Kirby, Aubrey M., Jr.; and Reif, Henry E.,3,425,932.

Kirby, Burton F.: *See—*
Colby, Leo K.; and Kirby, Burton F.,3,465,181.

Kirby, Charles A. Folding door guide, stop and retainer. 3,428,109, 2-18-69, Cl. 160-206.

Kirby, Edward, to United-Carr Incorporated, mesne. Connector with bus-bar. 3,431,545, 3-4-69, Cl. 339-258.

Kirby, John E.: *See—*
Brady, Robert M.; Hawkey, Charles W.; and Kirby, John E.,3,442,302.

Kirby, Joseph C.: *See—*
Galasso, Maurice; and Kirby, Joseph C.,3,447,712.

Kirby, Kenneth W.: *See—*
Hjermstad, Erling T.; Martin, Larry C.; and Kirby, Kenneth W.,3,462,283.

Kirby, Ralph W.; and Richards, Philip C., to Bell Telephone Laboratories, Incorporated. PBX in-dialing. 3,479,467, 11-18-69, Cl. 179-18.

Kirby, Robert A.: *See—*
Clark, Glen L.; and Kirby, Robert A.,3,474,900.

Kirby, Thomas E., Jr., to Reynolds Metals Company. Package construction means with easy open means therefor. 3,442,436, 5-6-69, Cl. 229-51.

Kirby, Thomas E., Jr., to Reynolds Metals Company. Package construction. 3,476,237, 11-4-69, Cl. 206-47.

Kirby, Thomas E., to Reynolds Metals Company. Package construction and method of making the same or the like. 3,447,675, 6-3-69, Cl. 206-65.

Kirby, William T.: *See—*
Miller, Roland E.; Wayne, Clyde; and Kirby, William T.,3,425,123.

Kirch, John H., to Amchem Products, Inc. Efficient arsonate herbicide composition and method of use. 3,466,163, 9-9-69, Cl. 71-97.

Kirch, William: *See—*
Solvik, Ragnar S.; and Kirch, William,3,446,754.

Kirchberger, Walter Carl; and Orlando, Daniel, to Globe-Union, Inc. Welding machine. 3,427,424, 2-11-69, Cl. 219-78.

Kirchen, Charles P.: *See—*
Buckman, Stanley J.; Kirchen, Charles P.; and Gendron, Claude G.,3,448,004.

Kircher, Charles E.; and Jones, Robert J., to Detrex Chemical Industries, Inc. Process for the production of pure muriatic acid from byproduct hydrogen chloride. 3,425,188, 2-4-69, Cl. 55-20.

Kircher, Charles E.; Jones, Robert J.; and Kinsella, Frank V., to Detrex Chemical Industries, Inc. Process for the chlorination of olefinic hydrocarbons and ethylenically unsaturated chlorohydocarbons. 3,475,504, 10-28-69, Cl. 260-658.

Kircher, Hartmann J., III; and Rossetto, James A., to Thiokol Chemical Corporation. Tank construction for jet engine. 3,426,529, 2-11-69, Cl. 60-39.48

Kircher, Hartmann J., III: *See—*
Lovingham, Joseph J.; and Kircher, Hartmann J., III,3,482,404.

Kircher, Morton S., to Dryden Chemicals Limited. Anode structure for electrolytic cell. 3,477,938, 11-11-69, Cl. 204-266.

Kircher, Morton S., to Dryden Chemicals Limited. Bipolar electrolytic cell. 3,477,939, 11-11-69, Cl. 204-268.

Kircher, Morton S.; and Miller, T. George, to Hooker Chemical Corporation. Protection of permselective diaphragm during electrolysis. 3,438,879, 4-15-69, Cl. 204-95.

Kircher, Paul J., to Westinghouse Electric Corporation. Circuit to indicate presence of charging current. 3,421,142, 1-7-69, Cl. 320-48.

Kircher, Paul J., to Westinghouse Electric Corporation. Appliance having a rotatable two-part actuator captivated by a frame member. 3,422,236, 1-14-69, Cl. 200-157.

Kircher, Paul J., to Westinghouse Electric Corporation. Support structure for domestic appliance. 3,473,859, 10-21-69, Cl. 312-209.

Kircher, Rene, to Societe d'Etudes Chimiques Pour l'Industrie et l'Agriculture. Starch pastes of improved fluidity. 3,434,880, 3-25-69, Cl. 127-70.

Kirchgasser, Jakob. Method and apparatus for the manufacture of a circular spring from a straight helical tension spring. 3,426,410, 2-11-69, Cl. 29-173.

Kirchhein, Albert T., to Bendix Corporation, The. Resequencing control system and timing means. 3,454,851, 7-8-69, Cl. 318-18.

Kirchhein, Albert T.; and Franchi, Louis J., to Bendix Corporation, The. Monitoring and testing system for a fail operative control system of an aircraft. 3,454,849, 7-8-69, Cl. 318-18.

Kirchhoff, Kurt, to ISCO Optische Werke GmbH. Four element photographic objective focused by displacement of the front two elements. 3,473,866, 10-21-69, Cl. 350-220.

Kirchhubel, Kurt: *See—*
Cuppers, Curt W.; and Kirchhubel, Kurt,3,481,330.

Kirchhubel, Kurt, to Oculus-Optikgerate G.m.b.H. Apparatus for measuring and recording the pupils of the eyes. 3,451,747, 6-24-69, Cl. 351-5.

Kirchler, Lewis, to International Harvester Company. Hose block swivel. 3,422,729, 1-21-69, Cl. 92-146.

Kirchmier, William O., to Rucker Company, The. Liquid level controller. 3,463,178, 8-26-69, Cl. 137-81.5

Kirchner, Carl O.; and King, John T., to Leggett and Platt Incorporated. Coil spring positioning device. 3,469,608, 9-30-69, Cl. 140-3.

Kirchner, Frederick K., to Sterling Drug Inc. N-Substituted phenyl and N-substituted phenylalkyl 3-indazolecarboxamides and preparation thereof. 3,457,269, 7-22-69, Cl. 260-295.

Kirchner, Frederick K.; and Zalay, Andrew W., to Sterling Drug Inc. 1-Bis (cyanomethyl)-3-phenylureas. 3,429,911, 2-25-69, Cl. 260-465.

Kirchner, Frederick K.; and Zalay, Andrew W., to Sterling Drug Inc. 4-Imino-3-phenyl-2-oxoimidazolidine-1- acetonitriles. 3,463,787, 8-26-69, Cl. 260-309.7

Kirchner, Georg, to VEB Jenaer Glaswerk Schott & Gen. Apparatus for calibrating thermoplastic tubes and similar objects. 3,456,289, 7-22-69, Cl. 18-1.

Kirchner, Herbert: *See*—
Karig, Erhardt; and Kirchner, Herbert,3,426,624.

Kirchner Wilhelm; and Olivier, Wilhelm, to Dynamit Nobel Aktiengesellschaft. Process and apparatus for manufacturing unilaterally closed cases with a bottom fold. 3,452,578, 7-1-69, Cl. 72-348.

Kirchoff, Betty J. Scarf with coil-type rib. 3,471,867, 10-14-69, Cl. 2-207.

Kirimoto, Seiji; and Kaneko, Taizo, to Nikko Electric Industry Co., Ltd. Backup warning device for a vehicle. 3,439,324, 4-15-69, Cl. 340-70.

Kirimura, Shunichiro: *See*—
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro,3,449,196.

Kiriyama, Toshikatsu: *See*—
Moriyama, Hiromi; Yamada, Hiroshi; Nakanishi, Tsunemoto; and Kiriyama, Toshikatsu,3,443,312.

Kirk & Blum Manufacturing Co., The: *See*—
Werner, Robert B., 3,443,802.

Kirk, Clair F.: *See*—
Kirk, Samuel A.; and Kirk, Clair F.,3,430,853.

Kirk, David B., to Moore Products Co. Pneumatic control apparatus. 3,457,940, 7-29-69, Cl. 137-83.

Kirk, David B., to Moore Products Co. Pilot valve. 3,478,765, 11-18-69, Cl. 137-81.5

Kirk, David Neville; Petrow, Vladimir; Stansfield, Martin; and Williamson, David Morton, to British Drug Houses Limited, The. Process for the preparation of 6-methyl-3β,5α,17 α-tihydroxy-20-cyclic ketal pregnane derivative. 3,452,006, 6-24-69, Cl. 260-239.55

Kirk, Farlan: *See*—
Dean, Raiford P., Jr.; and Kirk, Farlan,3,457,946.

Kirk, G. R., Co.: *See*—
Raymond, Gerald L.; and Raymond, Gary L., 3,473,291.

Kirk, Harry V.; and Dufour, Robert, to Cheshire Incorporated. Mailing piece separator. 3,458,383, 7-29-69, Cl. 156-566.

Kirk, James C., to Columbian Carbon Company, mesne. Catalyst and preparation thereof. 3,462,376, 8-19-69, Cl. 252-428.

Kirk, James H.: *See*—
Patinkin, Seymour H.; Kirk, James H.; and Steinhoff, William L.,3,445,205.

Kirk, Joseph M., Jr., to Dresser Industries, Inc. Automatic tempering. 3,463,461, 8-26-69, Cl. 259-154.

Kirk, Joseph R., to Hancock Industries, Inc. Door check and hinge for automatic vehicles. 3,438,083, 4-15-69, Cl. 16-139.

Kirk, Joseph; and Forsthuber, Robert Franz Karl, to U.S. Philips Corporation, mesne. Technical educational device. 3,466,762, 9-16-69, Cl. 35-19.

Kirk, Merritt C., Jr., to Sun Oil Company. Process for hydrodesulfurizing the lower boiling fraction of a cracked gas oil blend. 3,424,673, 1-28-69, Cl. 208-218.

Kirk, Merritt C., Jr., to Sun Oil Company. Reforming process. 3,434,959, 3-25-69, Cl. 208-62.

Kirk, Merritt C., Jr., to Sun Oil Company. Process for hydrodesulfurization of cracked gas oils and the production of dimethyldecalins and fuel oil blending components. 3,481,996, 12-2-69, Cl. 260-667.

Kirk, Merritt C., Jr.; and Andersson, Craig R., to Sun Oil Company. Method for treating cracked gas oil. 3,437,702, 4-8-69, Cl. 260-668.

Kirk, Morris P., & Son, Inc.: *See*—
Larrieu, Leslie J., 3,420,661.

Kirk, Norbert A. Toy ball gun device. 3,424,461, 1-28-69, Cl. 273-96.

Kirk, Richard O.: *See*—
Swanson, Norman; Kirk, Richard O.; and Woodward, George E.,3,433,832.

Kirk, Robert Edwin: *See*—
Taysom, Patrick Arnold; and Kirk, Robert Edwin,3,435,858.

Kirk, Samuel A.; and Kirk, Clair F. Turbine centrifuge. 3,430,853, 3-4-69, Cl. 233-23.

Kirk, Thomas E., to General Motors Corporation. Semiconductor voltage regulator. 3,469,175, 9-23-69, Cl. 322-28.

Kirk, Thomas E., to General Motors Corporation. Rotor position sensor and control circuit for an electric motor power supply. 3,483,458, 12-9-69, Cl. 318-138.

Kirk, Walter B., to Westinghouse Air Brake Company. Empty and load brake apparatus. 3,460,870, 8-12-69, Cl. 303-22.

Kirk-Gaard, Inc.: *See*—
Kirkegaard, Leonard G., 3,474,538.

Kirkegaard, Leonard G., to Kirk-Gaard, Inc. Geometry teaching aid. 3,474,538, 10-28-69, Cl. 33-1.

Kirkendall, Richard D.; Deas, Robert W.; McCall, Nelson H.; and Gay, Herman P., to United States of America, Army. Device for indicating passage of a projectile in a bore. 3,453,882, 7-8-69, Cl. 73-167.

Kirkendall, William D., to Weston Instruments, Inc. Variable resistors. 3,478,294, 11-11-69, Cl. 338-174.

Kirkhof Manufacturing Corporation: *See*—
Kirkhof, Russel H., 3,460,685.
O'Brien, Robert E., 3,420,004.

Kirkhof, Russel H., to Kirkhof Manufacturing Corporation. Article stack former, regulator, and handler. 3,460,685, 8-12-69, Cl. 214-6.

Kirkinsky, Sergei Dmitrievich: *See*—
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.

Kirkland, A., & Co. Limited: *See*—
Carrotte, Frederick H.; and Ellis, John Ernest, 3,442,098.

Kirkland, A., & Company Limited: *See*—
Carrotte, Frederick H., 3,464,234.
Carrotte, Frederick H., 3,470,713.

Kirkland, Claude James: *See*—
Herrlinger, Richard; Kirkland, Claude James; and Ciesielski, Leo Frank,3,432,402.

Kirkland, Earl Vance, to Celanese Corporation. Oxidized cellulose tobacco substitute composition. 3,461,879, 8-19-69, Cl. 131-2.

Kirkland, Jerry J., to Procter & Gamble Company, The. Oral compositions for retarding dental plaque formation comprising para-aminobenzoic acid. 3,427,380, 2-11-69, Cl. 424-54.

Kirkland, Jerry J., to Procter & Gamble Company, The. Oral compositions for retarding dental plaque formation comprising benzohydroxamic acid. 3,427,381, 2-11-69, Cl. 424-54.

Kirkman, William, to Libbey-Owens-Ford Glass Company. Apparatus for bending glass sheets. 3,421,875, 1-14-69, Cl. 65-273.

Kirkowski, Stan: *See*—
Smizaski, Frank; and Kirkowski, Stan,3,465,465.

Kirkpatrick, Artie D., to Texas Instruments, Incorporated. Far infrared lens. 3,439,969, 4-22-69, Cl. 350-2.

Kirkpatrick, Frederick J.: *See*—
Seelbach, Walter C.; and Kirkpatrick, Frederick J.,3,437,831.

Kirkpatrick, Henry O., to Cummins Engine Company. Roof mounted automobile heat exchanger. 3,420,294, 1-7-69, Cl. 165-41.

Kirkpatrick, Kenneth K.: *See*—
Orlandini, Bruno; and Kirkpatrick, Kenneth K.,3,479,378.

Kirkpatrick, Kenneth L., to Deere & Company. Steering improvements for duplex disk tiller. 3,420,316, 1-7-69, Cl. 172-288.

Kirkpatrick, Oscar H.; and Hobush, Albert P., to Hubbard-Hall Chemical Company, The. Electroplating barrel. 3,442,783, 5-6-69, Cl. 204-213.

Kirkpatrick, Robert E.: *See*—
Weaver, Curtis C.; and Kirkpatrick, Robert E.,3,459,457.

Kirkpatrick, Robert G., to General Electric Company. Constant velocity conveyor mechanism. 3,429,221, 2-25-69, Cl. 89-33.

Kirkpatrick, William F., to California Texas Oil Corporation. Shipboard mounting liquefied gas tanks. 3,425,584, 2-4-69, Cl. 220-15.

Kirkpatrick, Wylie C., to SCM Corporation, mesne. Plastic containers for paint. 3,434,588, 3-25-69, Cl. 206-46.

Kirkschnek, Helmut; Von Finck, Georg; and Quaedvlieg, Mathieu, to Farbenfabriken Bayer Aktiengesellschaft. Process for treating a textile material with an aqueous antistatic and handle-improving composition and the aqueous treating composition. 3,420,703, 1-7-69, Cl. 117-139.5

Kirksey, Charles D. Psychology test method and device. 3,438,141, 4-15-69, Cl. 35-22.

Kirkwood, George B.: *See*—
Holst, Edward H.; and Kirkwood, George B.,3,472,773.

Kirkwood, Robert B., to Morden Machines Company. Means for simultaneously indicating the spacing between two opposed attritioning elements and their condition of wear. 3,438,351, 4-15-69, Cl. 116-124.

Kirn, Thomas G., to Eastman Kodak Company. Film pull down and control mechanism for a motion picture projector. 3,463,372, 8-26-69, Cl. 226-49.

Kirn, Thomas G.: *See*—
Johnson, Robert B.; and Kirn, Thomas G.,3,463,373.

Kirner, Uwe; and Hartmark, Bjarne, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Bleaching fibrous material of natural cellulose. 3,476,505, 11-4-69, Cl. 8-139.
Kirpich, Aaron, to United States of America, Air Force. Ports for pressure measurements on ablating surfaces. 3,465,594, 9-9-69, Cl. 73-388.
Kirsch Heinrich: *See—*
Bischoff, Karl; and Kirsch Heinrich,3,442,294.
Kirsch, Karl; Uhl, Siegfried; and Schiele, August, to Keller & Knappich G.m.b.H. Securing a gun turret on an armored vehicle. 3,434,382, 3-25-69, Cl. 89-36.
Kirschbaum, Harry; and Dobbs, Jack. Fabric display device. 3,430,364, 3-4-69, Cl. 35-49.
Kirschenbaum, Gabriel: *See—*
Shapiro, Michael F.; and Kirschenbaum, Gabriel,3,452,664.
Kirschenmann, Harold. Mechanism for winking doll eyes. 3,462,876, 8-26-69, Cl. 46-135.
Kirschke, John A. Jet-propelled hydraulic pipeline cleaner with a skid, tangential jet and cleaning head. 3,432,872, 3-18-69, Cl. 15-104.12
Kirschke, John A. Hydraulic waste disposal line cleaner with motor and cleaning head. 3,449,783, 6-17-69, Cl. 15-104.12
Kirschnek, Helmut; Lehmann, Wolfgang; and Quaedvlieg, Mathieu, to Farbenfabriken Bayer Aktiengesellschaft. Process and composition for imparting antistatic finish to textile materials. 3,441,435, 4-29-69, Cl. 117-139.5
Kirschnek, Helmut; and Quaedvlieg, Mathieu, to Farbenfabriken Bayer Aktiengesellschaft. Cationic active agent and a method for softening a washable textile fabric therewith. 3,451,844, 6-24-69, Cl. 117-139.5
Kirschnek, Helmut; von Finck, Georg; and Quaedvlieg, Mathieu, to Farbenfabriken Bayer Aktiengesellschaft. Imparting antistatic properties to fibrous materials through treatment with a polyether containing terminal urea groups and a polyfunctional aldehyde. 3,467,487, 9-16-69, Cl. 8-115.5
Kirschner, Ely A. Rapidly drying lower aliphatic alcohol- acetone sanitizing composition and method. 3,445,564, 5-20-69, Cl. 424-45.
Kirshner, Joseph M.; and Campagnuolo, Carl J., to United States of America, Army. Temperature insensitive fluid oscillator. 3,452,771, 7-1-69, Cl. 137-81.5
Kirshner, Joseph M.: *See—*
White, Harry N.; and Kirshner, Joseph M.,3,457,936.
Kirss, Voldemar: *See—*
Emery, Ernest W.; and Kirss, Voldemar,3,462,470.
Kirss, Voldemar; and Park, Jong C., to Allied Chemical Corporation. Purification of toluenediamine mixtures by vacuum distillation. 3,420,752, 1-7-69, Cl. 203-94.
Kirst, Werner: *See—*
Hertel, Hasso; and Kirst, Werner,3,441,364.
Hertel, Hasso; and Kirst, Werner,3,484,181.
Kirsten, James O.F.: *See—*
Kaufman, William A.; and Kirsten, James O.F.,3,481,235.
Kiscaden, Donald C.: *See—*
Guess, Algernon P., Jr.; and Kiscaden, Donald C.,3,458,616.
Heckrotte, Robert S.; Kiscaden, Donald C.; and Wyeth, Nathaniel C.,3,460,199.
Kise, Morton E. Connector and support for natural flowers. 3,452,476, 7-1-69, Cl. 47-55.
Kise, Seiichi: *See—*
Kagiya, Tsutomu; Machi, Sueo; Hagiwara, Miyuki; and Kise, Seiichi,3,471,463.
Kiselev, Kuzma Nikitich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.
Kiselev, Nikolai Petrovich: *See—*
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.
Kiselev, Vasily Vasilievich; Ryabukha, Alexandr Yakovlevich; and Brylev, Anatoli Ivanovich. High energy forming vacuum chamber. 3,485,075, 12-23-69, Cl. 72-56.
Kiselnikov, Vladimir Nikolaevich: *See—*
Vinogradov, Alexandr Sergeevich; Kapustin, Jury Mikhailovich; Maxjutenko, Ilya Nikolaevich; Kiselnikov, Vladimir Nikolaevich; Borisov, Igor Sergeevich; and Mazalov, Ivan Mikhailovich,3,419,940.
Kiser, Joseph H., to Varl-L Company, Inc. Closed loop electric curcuit. 3,445,755, 5-20-69, Cl. 323-75.
Kiser, Joseph H., to Vari-L Company, Inc. Automatic ganging of superheterodyne radio frequency stages. 3,473,128, 10-14-69, Cl. 325-422.
Kiser, Kenneth M.: *See—*
Holub, Fred F.; and Kiser, Kenneth M.,3,481,812.
Kish, Arthur S., to Murray Corporation. Dispensing valve and means for removable attachment thereof to pressurized fluid containers. 3,455,488, 7-15-69, Cl. 222-82.
Kish, Arthur S., to Murray Corporation. Universal fittings for attachment to compressor heads and the like. 3,469,599, 9-30-69, Cl. 137-587.
Kish, George D., to Dresser Industries, Inc. Pipe couplings. 3,429,587, 2-25-69, Cl. 285-18.
Kish, Michael, Jr., to Atlantic Products Corporation. Three-chamber carrying bag having spaced reinforcing wires and three-way garment fold arrangement. 3,447,649, 6-3-69, Cl. 190-50.
Kish, Michael, Jr., to Atlantic Products Corporation, mesne. Luggage having a zipper closure. 3,477,553, 11-11-69, Cl. 190-41.
Kish, Robert W. Automobile rear window deflector. 3,427,067, 2-11-69, Cl. 296-1.
Kishaseizo Kabushiki Kaisha: *See—*
Shiomi, Hajime; and Hashimoto, Kazuo, 3,455,065.
Kishel, Joseph F., to Weston Instruments, Inc. Temperature measuring devices. 3,452,599, 7-1-69, Cl. 73-363.
Kishi, Kanesuke; Kawakami, Hirotake; and Yamanouchi, Kiyoshi, to Sony Corporation. Condenser microphone apparatus. 3,449,523, 6-10-69, Cl. 179-1.
Kishi, Kazuo: *See—*
Yamazaki, Kiroku; and Kishi, Kazuo,3,454,437.
Kishi, Kiyoshi: *See—*
Batchelor, Gordon S.; Kishi, Kiyoshi; Iwauchi, Shigeki; and Saito, Isamu,3,443,929.
Kishida, Tamon: *See—*
Fukushima, Osamu; Noda, Kazuo; Kishida, Tamon; and Ochi, Toshiharu,3,483,015.
Kishigami, Minoru: *See—*
Murakami, Ryuichi; and Kishigami, Minoru,3,430,144.
Kishimoto, Akira, to Fuji Transport Industry Co., Ltd. Ropeway with variable speed gear mechanism. 3,475,980, 11-4-69, Cl. 74-89.22
Kishioka, Taneji: *See—*
Hirose, Minoru; Kishioka, Taneji; and Shibanuma, Hajime,3,442,186.
Kishitaka, Hisashi; Shimamura, Yoshihisa; and Takata, Shinya, to Kawasaki Steel Corporation, and Meiwa Chemical Engineering Co., Ltd. Method of producing ammonium salts and iron oxide from waste pickle liquor. 3,451,769, 6-24-69, Cl. 23-100.
Kisinko, Paul M.; and Ernick, Frederick G., to Westinghouse Electric Corporation. Constant gain power transistor. 3,460,009, 8-5-69, Cl. 317-235.
Kisling, James W., III, to Schlumberger Technology Corporation. Apparatus for coupling members of a well tool. 3,429,590, 2-25-69, Cl. 285-91.
Kisling, James W., III, to Schlumberger Technology Corporation. Retainer packers having a rotating valve. 3,465,820, 9-9-69, Cl. 166-128.
Kisling, James W., III, to Schlumberger Technology Corporation. Retrievable well packer. 3,467,182, 9-16-69, Cl. 166-121.
Kisling, James W., III, to Schlumberger Technology Corporation. Retainer packer valve system. 3,485,298, 12-23-69, Cl. 166-226.
Kiss, Emil P.; and Onyx, Raymond C., to Paco Winders, Inc. Automatic tube cutting machine. 3,420,127, 1-7-69, Cl. 82-83.
Kiss, Erika, to Pall Corporation. Curing of epoxide resins with the reaction product of an organic amine and an aldehyde, and curing and resin compositions and process. 3,468,830, 9-23-69, Cl. 260-29.2
Kiss, Joseph; Spiegelberg, Hans; Vaterlaus, Bruno Peter; Rachlin, Albert; and Doebel, Karl, to Hoffmann-La Roche Inc. L-lyxopyranosyloxy-alkylcoumarin-containing glycosides. 3,445,455, 5-20-69, Cl. 260-210.
Kiss, Laszlo J. Positive drive continuous gear-mesh shifting multispeed transmission system. 3,468,177, 9-23-69, Cl. 74-339.
Kiss, Zoltan J., to Radio Corporation of America. Method of preparing luminescent materials. 3,438,881, 4-15-69, Cl. 204-157.1
Kiss, Zoltan J., to Radio Corporation of America. Luminescent materials and apparatus for generating coherent radiation. 3,447,097, 5-27-69, Cl. 331-94.5
Kissa, Erik; Manos, Philip; and Wahlig, Charles F., to Du Pont de Nemours, E. I., and Company. Compartmented electrochromic device. 3,453,038, 7-1-69, Cl. 350-160.
Kissell, Kenneth E., to United States of America, Air Force. Four-axis satellite-tracking mount. 3,464,116, 9-2-69, Cl. 33-61.
Kissell, Ronald E., to Owens-Corning Fiberglas Corporation. Filter cartridge. 3,469,706, 9-30-69, Cl. 210-448.
Kissil, Donald; and Gercke, Ferdinand A., to Warner-Lambert Pharmaceutical Company. Device for restraining small laboratory animals. 3,474,763, 10-28-69, Cl. 119-96.
Kissman, Henry Marcel: *See—*
Schaub, Robert Eugene; Kissman, Henry Marcel; and Weiss, Martin Joseph,3,440,243.
Winterbottom, Robert; Bitha, Panayota; and Kissman, Henry Marcel,3,433,834.
Kister, Dale F., to Foxboro Company, The. Gated oscillator digital controller. 3,478,767, 11-18-69, Cl. 137-88.

Kistler Instrument Corporation: *See*—
Kistler, Walter P., 3,429,031.
Kistler, Walter P.; and Siegel, Vernon H., 3,444,743.
Siegel, Vernon H., 3,454,891.
Kistler, Samuel S.; and Rue, Charles V., to International Telephone and Telegraph Corporation, mesne. Prestressed grinding wheel. 3,427,759, 2-18-69, Cl. 51-206.
Kistler, Samuel S.; and Rue, Charles V., to International Telephone and Telegraph Corporation. Abrasive grinding wheel. 3,481,723, 12-2-69, Cl. 51-298.
Kistler, Walter P., to Kistler Instrument Corporation, mesne. Method of assembling a force transducer. 3,429,031, 2-25-69, Cl. 29-595.
Kistler, Walter P.; and Siegel, Vernon H., to Kistler Instrument Corporation, mesne. Linear servo accelerometer having a post suspension system. 3,444,743, 5-20-69, Cl. 73-517.
Kistner, Howard M. Bowling guide. 3,467,379, 9-16-69, Cl. 273-54.
Kistner, Oscar J., to Mead Corporation, The. Structure for a top-loading end-opening container. 3,441,194, 4-29-69, Cl. 229-37.
Kita, Akira: *See*—
Nagai, Yoshiki; and Kita, Akira,3,484,659.
Kita, Hideo; and Ito, Kunihiko, to Nippon Sheet Glass Co., Ltd. Apparatus for the manufacture of sheet glass utilizing gas-permeable vertical dampers. 3,442,636, 5-6-69, Cl. 65-182.
Kita, Stanley Bernard. Vehicle guidance apparatus. 3,425,197, 2-4-69, Cl. 56-26.
Kita, Walter F., Jr. Flexible shaft cutting method employing work-in-circuit electrical fusion. 3,461,266, 8-12-69, Cl. 219-68.
Kita, Yasuo, to Sumitomo Electric Industries, Ltd. Caliper type disc brake. 3,478,845, 11-18-69, Cl. 188-73.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka, to Showa Denko Kabushiki Kaisha. Process for preparing high purity bis (β-hydroxyethyl) terephthalate. 3,435,067, 3-25-69, Cl. 260-475.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka, to Showa Denko Kabushiki Kaisha. Process for purifying bis(β-hydroxyethyl) terephthalate and isophthalate. 3,439,020, 4-15-69, Cl. 260-475.
Kitagawa, Hiroshi; Inoue, Toshio; Kurokawa, Susumu; and Horigome, Shinkichi, to Kabushiki Kaisha Hitachi Seisakusho. Magnetic materials having rectangular hysteresis loops. 3,441,506, 4-29-69, Cl. 252-62.6
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo, to Hitachi Chemical Company, Ltd. Method and an apparatus for purifying waste. 3,428,555, 2-18-69, Cl. 210-7.
Kitagawa, Hiroshi: *See*—
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira,3,458,987.
Kitagawa, Taisuke. Pneumatic rotative machine. 3,477,793, 11-11-69, Cl. 415-36.
Kitahara, Masao: *See*—
Yanagita, Masaya; Kitahara, Masao; and Mitsui, Takashi,3,439,028.
Yanagita, Masaya; Mitsui, Takashi; and Kitahara, Masao,3,437,711.
Kitahara, Naotake; and Yoshida, Terue, to Tokyo Kulsushita Kabushiki Kaisha. Circular tricot knitting machine. 3,479,841, 11-25-69, Cl. 66-31.
Kitahonoki, Keizo; and Kido, Ryonosuke, to Shionogi & Co., Ltd. 11-Methylamino-9,10-ethano-9,10-dihydro-anthracene and its acid-addition salts, and production thereof. 3,448,151, 6-3-69, Cl. 260-562.
Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Photographic camera with flash exposure mechanism. 3,457,844, 7-29-69, Cl. 95-10.
Kitaj, Walter: *See*—
Hider, Shibley A.; and Kitaj, Walter,3,481,763.
Kitaj, Walter, to Owens-Illinois Glass Company. Hypodermic needle. 3,430,627, 3-4-69, Cl. 128-221.
Kitaj, Walter, to Owens-Illinois, Inc. Foamed resin articles and method for production. 3,477,890, 11-11-69, Cl. 156-79.
Kitajewski, Ryszard: *See*—
Price, John Clifford; and Kitajewski, Ryszard,3,460,128.
Reeves, Alec Harley; and Kitajewski, Ryszard,3,470,387.
Kitajima, Daishu; and Nagatomi, Masaaki, to Yawata Iron & Steel Co., Ltd. Tuyere replacement apparatus. 3,458,918, 8-5-69, Cl. 29-239.
Kitajima, Masaichi. Device for removal of lubricating oil. 3,430,730, 3-4-69, Cl. 184-1.5
Kitakata, Setsuo: *See*—
Seto, Ichiro; Tanaka, Humikazu; Ishii, Yoshio; Nagae, Yuji; and Kitakata, Setsuo,3,449,405.
Kitamura, Akitomo: *See*—
Takizawa, Haruki; and Kitamura, Akitomo,3,450,811.
Kitamura, Junzo: *See*—
Ichihara, Kiyoshi; and Kitamura, Junzo,3,469,271.
Kitamura, Kenichi: *See*—
Kaneko, Kansaku; Fujiwara, Toshimasa; Samuta, Osamu; Miyasaka, Takao; and Kitamura, Kenichi,3,458,740.
Kitamura, Saburo: *See*—
Yamashita, Tadaoki; Sakai, Kunio; Nada, Naohiro; and Kitamura, Saburo,3,485,766.
Kitamura, Shinzo: *See*—
Ohsaki, Iwao; Fukui, Kazuyoshi; and Kitamura, Shinzo,3,459,386.
Kitamura, Yoichi; and Inui, Tsuneo, to Toyo Kohan Co., Ltd. Amine solution treatment of cathodically chromated metal surfaces. 3,484,343, 121-6-69, Cl. 204-35.
Kitamura, Yoshito: *See*—
Kawai, Katsumi; Suzuki, Gohei; and Kitamura, Yoshito,3,429,240.
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, to Sankyo Company Limited, and Asahi Kasei Kogyo Kabushiki Kaisha. Polyolefins stabilized with substituted 4-oxoimiolidine-1 oxides. 3,448,074, 6-3-69, Cl. 260-45.8
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, to Sankyo Company Limited, and Asahi Kasei Kogyo Kabushiki Kaisha. Polyolefins stabilized with substituted methylene piperidine methylene piperidine-1-oxides. 3,436,369, 4-1-69, Cl. 260-45.8
Kitaoka, Atsushi: *See*—
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,233.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi,3,474,068.
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,232.
Kitasaki, Kiyoshi; Bengelsdorf, Irving S.; and Crawford, Robert F., to United States Borax & Chemical Corporation. Method of controlling weed growth. 3,443,925, 5-13-69, Cl. 71-92.
Kitasaki, Kiyoshi; and Crawford, Robert F., to United States Borax & Chemical Corporation. Herbicidal composition and method employing 3-benzyl hydantoins. 3,443,926, 5-13-69, Cl. 71-92.
Kitayama, Noboru: *See*—
Tsumura, Takao; Kadooka, Toshio; Suzuki, Keisuke; and Kitayama, Noboru,3,444,553.
Kitazawa, George: *See*—
Sandler, Stanley Robert; Berg, Florence Ray; and Kitazawa, George,3,442,752.
Kitazawa, Kazuo. Butterfly valve. 3,466,008, 9-9-69, Cl. 251-297.
Kitazawa, Tadao: *See*—
Ishimitsu, Akitoshi; Sugahara, Kinichi; Arakawa, Saburo; and Kitazawa, Tadao,3,482,964.
Kitazawa, Tohru: *See*—
Kawase, Shigeru; Kitazawa, Tohru; Ohba, Hiroo; and Sagi, Kojiro,3,484,273.
Kitazume, Susumu: *See*—
Kuroda, Takaji; and Kitazume, Susumu,3,422,380.
Kitchar, Andrew F.: *See*—
Abramson, Andrew E.; and Kitchar, Andrew F.,3,447,994.
Abramson, Andrew E.; and Kitchar, Andrew F.,3,472,721.
Kitchel, Fred L., to United States Steel Corporation. Annealing furnace seal. 3,471,137, 10-7-69, Cl. 263-40.
Kitchell, Thorne C., to Union Camp Corporation. Shipping box with hand hole lock. 3,471,077, 10-7-69, Cl. 229-34.
Kitchen, Alonzo G.: *See*—
Hogan, John P.; and Kitchen, Alonzo G.,3,476,724.
Kitchen, Geoffrey F.: *See*—
Clark, Edward Watson; and Kitchen, Geoffrey F.,3,440,167.
Kitchen, Leland G.; and Rhea, Keith G., to Phillips Petroleum Company. Prevention of liquid backflow into gas compressor. 3,477,457, 11-11-69, Cl. 137-209.
Kitchener, Ronald, to G.K.N. Group Services Limited. Photo-sensitive apparatus for contactlessly measuring a dimension of an article. 3,475,611, 10-28-69, Cl. 250-214.
Kitchener, Ronald: *See*—
Moneypenny, Harold Kenneth; and Kitchener, Ronald,3,421,364.
Kitchenmaster, Leslie. Flow equalizer control. 3,473,567, 10-21-69, Cl. 137-604.
Kitchens, Garry C.; and Dahill, Robert T., Jr., to Givaudan Corporation. Process for the preparation of esters from myrcene hydrohalides. 3,475,484, 10-28-69, Cl. 260-489.
Kitchens of Sara Lee, Inc.: *See*—
Green, Harvey J.; and Adle, Joseph R., 3,482,615.
Van Eikeren, Hans; and Weller, Berthold L., 3,438,826.
Kite, C. K.: *See*—
Kite, Charles Kenneth; and Puleo, Elio J., 3,438,642.
Kite, Charles Kenneth; and Puleo, Elio J., to Kite, C. K., Puleo, E. J., Kite A. E., Jr., Witehead, J. A., d.b.a. Unique Associates. Whirlable vehicle. 3,438,642, 4-15-69, Cl. 280-8.
Kite, Maurice E.: *See*—
Wright, Norman K.; and Kite, Maurice E.,3,440,830.

Kite, Wilbur L., Jr., to Mead Corporation, The. Pressure sensitive paper and method of producing same. 3,472,674, 10-14-69, Cl. 117-36.1
Kitrilakis, Sotiris, to Thermo Electron Engineering Corporation. Automatic watering valve. 3,422,833, 1-21-69, Cl. 137-78.
Kitrilakis, Sotiris, to Thermo Electron Corporation. Vapor engine boiler. 3,477,412, 11-11-69, Cl. 122-33.
Kitson, George Samuel; and Cresswell, Roger Anthony, to Rolls-Royce Limited. Jet nozzle. 3,424,383, 1-28-69, Cl. 239-265.35
Kitsopoulos, George. Wheel traction means. 3,476,167, 11-4-69, Cl. 152-225.
Kitsopoulos, Sotirios C., to Bell Telephone Laboratories, Incorporated. System for synchronizing digital communication apparatus. 3,426,153, 2-4-69, Cl. 179-15.
Kitsopoulos, Sotirios C., to Bell Telephone Laboratories, Incorporated. Time division switching circuit. 3,444,326, 5-13-69, Cl. 179-15.
Kitsuda, Kaname. Auxiliary means for installing and dismantling wheel of a car. 3,441,157, 4-29-69, Cl. 214-332.
Kittel, Arthur: *See*—
Klingner, Wolfgang; and Kittel, Arthur,3,428,159.
Kittel, Ivan D.: *See*—
Etchells, John L.; Bell, Thomas A.; and Kittel, Ivan D.,3,480,448.
Kittelson, Ronald L. Spring loaded gate fastener. 3,476,427, 11-4-69, Cl. 292-175.
Kittl, Hans: *See*—
Stein, Werner; and Kittl, Hans,3,424,770.
Kittler, Milton J.; and Clarke, P John. Evaporation control device-pressure balance valve. 3,460,522, 8-12-69, Cl. 123-136.
Kittoe, Delos T.: *See*—
Weglein, Rolf D.; and Kittoe, Delos T.,3,426,291.
Kittredge, Edward D. Closure means. 3,467,998, 9-23-69, Cl. 24-205.1
Kittredge, Raymond E.; Levy, Kurt; and Kripl, Josef F., to Singer-General Precision, Inc. Method of visually simulating star fields and the like. 3,470,629, 10-7-69, Cl. 35-44.
Kittredge, Raymond E.: *See*—
Greenly, Robert B.; Jenkner, Kurt W.; and Kittredge, Raymond E.,3,473,451.
Hauber, Charles E.; and Kittredge, Raymond E.,3,473,862.
Kitts, Earle L., Jr.: *See*—
Sihvonen, Yro T.; Boyd, David R.; and Kitts, Earle L., Jr.,3,426,209.
Kitze, Theodore J., Jr., to Eastman Kodak Company. Optically sensitized photographic element containing a developing agent. 3,428,455, 2-18-69, Cl. 96-76.
Kitzen, Maurice R., to Selas Corporation of America. Concurrent cracking. 3,470,263, 9-30-69, Cl. 260-683.
Kitzerow, Richard A.: *See*—
Copeland, John R.; and Kitzerow, Richard A.,3,480,961.
Kitzinger, Joseph A. Educational aid for use in developing abilities in the identification and manipulation of numbers or other indicia. 3,419,972, 1-7-69, Cl. 35-31.
Kitzmiller, Charles T.: *See*—
Guimento, Angelo; and Kitzmiller, Charles T.,3,445,659.
Kiuchi, Yuji; and Shimizu, Kazuo, to Tokyo Shibaura Electric Co., Ltd. Method of manufacturing photoconductive layers. 3,466,183, 9-9-69, Cl. 117-34.
Kiuchi, Yuji; and Shimizu, Kazuo, to Tokyo Shibaura Electric Co., Ltd. High sensitivity photoconductor for image pickup tube. 3,486,059, 12-23-69, Cl. 313-65.
Kivelevich, Doris: *See*—
Hellmuth, Walter W.; Kivelevich, Doris; Dadura, James G.; and Morissette, Bertrand G.,3,480,548.
Kivelevich, Doris, to Texaco Inc. Method of preparing calcium alkylphenolates. 3,425,941, 2-4-69, Cl. 252-42.7
Kivelevich, Doris; and Ruidisch, Louis E., to Texaco Inc. Method of preparing lubricating oil concentrate containing calcium salt of alkylphenol- formaldehyde-diaminoalkane condensation product. 3,429,812, 2-25-69, Cl. 252-42.7
Kivell, Robert John, to Consolidated Paper (Bahamas) Limited. Shipper package. 3,486,612, 12-30-69, Cl. 206-46.
Kivioja, Olaf E.: *See*—
Hansen, Charles C.; Mauer, Kenneth H.; and Kivioja, Olaf E.,3,449,923.
Kivlen, John A.: *See*—
Straight, Harry F., Jr.; and Kivlen, John A.,3,476,180.
Kiwiet, Johannes, to Inland Steel Company. Centrifugal spray coating methods and apparatus. 3,455,728, 7-15-69, Cl. 117-96.
Kiwiet, Johannes; and Virta, Arthur W., Sr., to Inland Steel Company. Centrifugal spray coating methods and apparatus. 3,459,586, 8-5-69, Cl. 117-96.
Kiyama, Masao: *See*—
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji,3,440,035.
Kiyama, Soji: *See*—
Mayumi, Kanji; Yamaki, Kiyoshi; Konishi, Akio; Suzuki, Shigeyuki; and Kiyama, Soji,3,428,482.
Kiyasu, Zen'iti; and Kawashima, Masao, to Fujitsu Limited. Coders. 3,484,779, 12-16-69, Cl. 340-347.
Kiyohara, Shinzo; and Shibasaki, Yasuichi, to Isomura Sangyo Kaisha, Ltd. Method of manufacturing lead dioxide electrode. 3,434,905, 3-25-69, Cl. 156-327.
Kiyohisa, Yukio: *See*—
Kato, Kichiro; Fujita, Hiroshi; Toyama, Teruhiko; Kiyohisa, Yukio; Yoshimoto, Takeo; and Yanami, Tetsuo,3,454,392.
Kizaki, Shoji: *See*—
Huang, Ching Yun; and Kizaki, Shoji,3,481,892.
Kizer, Richard W.; and Probert, Kenneth D., to Caterpillar Tractor Company. Mounting means for high speed bearings. 3,424,508, 1-28-69, Cl. 308-184.
Kjaergaard, Knud, to GW Sprinkler A/S (GW Ventilation A/S). Valve arrangement for a sprinkler system and a control valve arrangement. 3,451,482, 6-24-69, Cl. 169-22.
Kjeldsen, Kjeld: *See*—
Enemark, Arne F.; Kjeldsen, Kjeld; and Larsen, Bendt Wegge,3,480,206.
Valbjorn, Knud V.; and Kjeldsen, Kjeld,3,441,202.
Valbjorn, Knud V.; Kjeldsen, Kjeld; and Skog, Steinar,3,461,683.
Kjelland-Fosterud, Einar: *See*—
Skaug, Jan A.; and Kjelland-Fosterud, Einar,3,452,518.
Kjellberg Elektroden & Maschinen GmbH: *See*—
Haase, Lothar; and Pochert, Rudolf, 3,459,376.
Kjellgren, Ove Allan V.; and Nilson, Carl-Goran, to Alfa-Laval AB. Device for indicating sludge level in sludge centrifuges. 3,441,204, 4-29-69, Cl. 233-21.
Kjellmark, Eric W., Jr., to Du Pont de Nemours, E. I., and Company. Coatings for rendering corrodible metal corrosion resistant. 3,443,982, 5-13-69, Cl. 117-75.
Kjellstrom, Alva Eskil Petrus: *See*—
Kjellstrom, Jan Alva; and Kjellstrom, Alva Eskil Petrus,3,473,234.
Kjellstrom, Jan Alva; and Kjellstrom, Alva Eskil Petrus. Ship compasses. 3,473,234, 10-21-69, Cl. 33-223.
Kjelstrom, Elmer; deceased0 (by Kjelstrom, Leonard Taylor; executor). Drum assembly. 3,433,115, 3-18-69, Cl. 84-411.
Kjelstrom, Leonard Taylor: *See*—
Kjelstrom, Elmer,3,433,115.
Kjemtrup, Jens E., to General Electric Company. Reactor cooling system. 3,431,168, 3-4-69, Cl. 176-55.
Kjonaas, Manley: *See*—
Chao, Tai S.; Kjonaas, Manley; and Hoffman, William D.,3,441,600.
Kjos, Magne Jarle, to Burroughs Corporation. Multiple station tape handling apparatus. 3,460,780, 8-12-69, Cl. 242-55.12
Kjos, Magne Jarle: *See*—
Rayfield, Harry F.; and Kjos, Magne Jarle,3,443,766.
Klaas, Ruth Elizabeth Barry: *See*—
Blaisdell, Donald Stapf; and Klaas, Ruth Elizabeth Barry,3,423,312.
Klaas, Ruth Elizabeth Barry. Radiation converter comprising transparent parallel layers containing fluorescent substances. 3,426,212, 2-4-69, Cl. 250-226.
Klaassen, Hermann: *See*—
Fischer, Max; Scheuermann, Hans; Klaassen, Hermann; and Lenz, Johann,3,482,353.
Klaczkiewicz, Edward J.: *See*—
Moore, Lawrence A.; and Klaczkiewicz, Edward J.,3,455,192.
Klaeui, Hans J., to Crompton & Knowles-Malimo, Inc. Pneumatic cleaning system. 3,461,693, 8-19-69, Cl. 66-168.
Klahn, Richard: *See*—
Gomez, Ernest; and Klahn, Richard,3,456,098.
Klahn, William R.: *See*—
Hamilton, Merrill V.; and Klahn, William R.,3,460,551.
Klaiber, Gerhart; and Maps, Charles H., Jr., to Electronic Associates Inc. Contact assembly. 3,450,849, 6-17-69, Cl. 200-51.1
Klaiber, Robert J.: *See*—
Derderian, George; and Klaiber, Robert J.,3,436,546.
Klamp, Paul, to Mechanical Handling Systems, Inc. Carrier for power and free conveyor systems. 3,426,700, 2-11-69, Cl. 104-94.
Klamp, Paul, to American Chain & Cable Company, Inc., mesne. Entrance switch for power and free conveyors. 3,477,388, 11-11-69, Cl. 104-96.
Klanberg, Frank K., to Du Pont de Nemours, E. I., and Company. Complexes of B_9H_{14} or . $B_9H_{12}S$. with selected metals and phosphines. 3,450,733, 6-17-69, Cl. 260-430.
Klanberg, Frank K., to Du Pont de Nemours, E. I., and Company. Salts of the anion $B_9H_9^{-2}$. 3,471,269, 10-7-69, Cl. 23-361.
Klanberg, Frank K.; and Parshall, George W., to Du Pont de Nemours, E. I., and Company. Complexes of $B_{11}H_{14}$ and $B_{11}H_1^{-3}$. 3,455,977, 7-15-69, Cl. 260-430.
Klancke, John H.; and Lindsey, Seth B., to Phillips Manufacturing Company, Inc. Core plug heater. 3,456,094, 7-15-69, Cl. 219-208.
Klanderman, Bruce H.; and Faber, Jan W. H., to Eastman Kodak Company. Polyester compositions prepared from new 9,10-bridged anthracene compounds. 3,457,235, 7-22-69, Cl. 260-75.
Klang, Daniel M.: *See*—
Brown, George C.; and Klang, Daniel M.,3,433,426.

Brown, George C.; Klang, Daniel M.; and Moritz, Frederick G.,3,471,073.
Klang, Robert S.: *See*—
Hindin, Herbert B.; Klang, Robert S.; and Phillips, George M.,3,452,799.
Klangos, George. Adjustable support. 3,424,422, 1-28-69, Cl. 248-330.
Klank, Walter C., to United Aircraft Products, Inc. Method of making a heat exchanger. 3,473,210, 10-21-69, Cl. 29-157.3
Klann, Paul A. Self-contained setter board. 3,425,010, 1-28-69, Cl. 335-122.
Klapp, Heinz, to Geb. Eickhoff, Maschinenfabrik und Eisengiessersi m.b.H. Apparatus for forming glued or coated folding box stock. 3,469,508, 9-30-69, Cl. 93-44.1
Klapper, Hans: *See*—
Hendricks, Udo Winfried; Tamer, Ergun; Quaedvlieg, Mathieu; Klapper, Hans; Boehmke, Gunther; and Schneider, Otto,3,451,762.
Klapprodt, Glen, to Snow Equipment Industries, Inc. Snow clearing device with scoop and blower. 3,484,962, 12-23-69, Cl. 37-43.
Klapproth, Christian P., Jr.; and Doxzon, Melvin R. Threaded sheet metal fitting. 3,467,411, 9-16-69, Cl. 285-219.
Klare, Robert J.; and Sedgwick, Grant O., to Ashland Oil & Refining Company. Process for making oil modified alkyd resins wherein all reactants are added in one change. 3,423,341, 1-21-69, Cl. 260-22.
Klarner, Ewald: *See*—
Muller, Sebastian; Klarner, Ewald; and Wagner, Horst,3,463,474.
Klasen, Charles J.: *See*—
Funk, Smith A.; Klasen, Charles J.; and Malone, James J., Jr.,3,483,664.
Klasens, Hendrik Anne, to U.S. Philips Corporation, mesne. Method of manufacturing semiconductor devices and semiconductor devices manufactured by such methods. 3,442,647, 5-6-69, Cl. 96-36.2
Klasens, Hendrik Anne, to U.S. Philips Corporation, mesne. Method of providing at least two juxtaposed contacts on a semiconductor body. 3,481,031, 12-2-69, Cl. 29-571.
Klasing Hand Brake Co.: *See*—
Klasing, Wayne G., 3,425,294.
Klasing, Wayne G., to Klasing Hand Brake Co. Non-spin hand brake assembly with quick release mechanism therefor. 3,425,294, 2-4-69, Cl. 74-505.
Klasky, Morris B. Water-treating apparatus. 3,423,182, 1-21-69, Cl. 23-267.
Klass, Donald L.: *See*—
Haines, Robert M.; Klass, Donald L.; and Martinek, Thomas W.,3,452,275.
Klass, Donald L.; Martinek, Thomas W.; and Haines, Robert M., to Union Oil Company of California. Inertially responsive device. 3,468,167, 9-23-69, Cl. 73-516.
Klass, Nicholas P.; and Reed, Ralph W., to Minnesota Mining and Manufacturing Company. Coating of solid substrates. 3,449,176, 6-10-69, Cl. 148-6.15
Klassen, Jake D.: *See*—
Friesen, Vernon W.; Klassen, Jake D.; and Kohman, Fred H.,3,460,631.
Klatt, Keith K., to United States of America, Navy, mesne. Fine and coarse rotation control device. 3,449,970, 6-17-69, Cl. 74-89.
Klatt, Peter: *See*—
Bauer, Fritz; Klatt, Peter; and Sellhorn, Kurt,3,427,377.
Klatt, Walter. Device for automatically controlling the exposure time for photographic enlarging devices. 3,445,162, 5-20-69, Cl. 355-56.
Klauberg, Walter E. Slide angle meters. 3,486,232, 12-30-69, Cl. 33-1.
Klaudinyi, Bela: *See*—
Jacobs, Louis J.; Klaudinyi, Bela; and Fisher, Robert Earl,3,426,834.
Klaue, Hermann. Actuator mounting means for spreading disc brake. 3,421,601, 1-14-69, Cl. 188-72.
Klaue, Hermann. Spreading-type disc brake including adjustor and actuator therefor. 3,435,920, 4-1-69, Cl. 188-72.
Klaui, Heinrich, to Hoffmann-La Roche, Inc. Fat soluble vitamin compositions. 3,436,459, 4-1-69, Cl. 424-284.
Klaui, Heinrich; Rehm, Walter; and Schlegel, Wolfgang, to Hoffmann-La Roche, Inc. Water-dispersible, medicament-containing compositions useful as veterinary medicines. 3,466,362, 9-9-69, Cl. 424-14.
Klauke, Erich: *See*—
Paulus, Wilfried; Kuhle, Engelbert; Pauli, Otto; Sasse, Klaus; and Klauke, Erich,3,478,027.
Klaus, Arthur, to Elastic GmbH. Stapling device for closing sample bags of touch material. 3,420,426, 1-7-69, Cl. 227-71.
Klaus, Kaspar. Transport vehicle. 3,458,066, 7-29-69, Cl. 214-77.
Klaus, Lee E., to Beckman Instruments, Inc. Metering pump. 3,426,695, 2-11-69, Cl. 103-161.
Klausen, Leo Herman. One-piece moulded stacking chair. 3,459,449, 8-5-69, Cl. 297-239.
Klauss, Howard C.; and Brane, Ralph M., to PPG Industries, Inc. Latex coating compositions. 3,423,346, 1-21-69, Cl. 260-22.
Klauss, Ralph E.: *See*—
Bloemendaal, John F.; and Klauss, Ralph E.,3,470,808.
Klaver, Petrus: *See*—
Lindenhovius, Alex; Klaver, Petrus; and Appel, Johannes Andreas,3,447,887.
Klaverkamp, Bernard: *See*—
Hoffmann, Leo; and Klaverkamp, Bernard,3,440,856.
Klawitter, Roland E.; Murley, Ellsworth M., Jr.; Rottmann, Hans R.; and Sebring, Lowell W., to Owens-Illinois, Inc. Optical apparatus for inspecting the faceplate-to- funnel seal area of a TV tube. 3,466,452, 9-9-69, Cl. 250-222.
Klayman, Arnold I.; and Genest, Leonard J., to Singer Company, The. Manually operated motor speed control systems with automatic power assist by semiconductor controlled rectifiers. 3,461,371, 8-12-69, Cl. 318-332.
Klby, Jack S.; Toombs, Harold D.; and Van Tassel, James H., to Texas Instruments, Incorporated. Multilead package for a multilead electrical device. 3,484,534, 12-16-69, Cl. 174-52.
Klebanov, David Lvovich: *See*—
Perelman, Simon Meerovich; Prager, Isaak Aronovich; Tolmachev, Anatoly Filippovich; Klebanov, David Lvovich; and Gastev, Jury Alexandrovich,3,444,376.
Klebanow, Norman K.; and Sager, Dan, to Longacre Press, Inc., The, mesne. Apparatus for coating and curing epoxy resin on sheets. 3,467,060, 9-16-69, Cl. 118-58.
Klebe, Elmer C., Jr., to Singer Company, The. Brush holder assembly for electric motors. 3,436,576, 4-1-69, Cl. 310-239.
Klebe, Hans: *See*—
Schuler, Wilhelm A.; and Klebe, Hans,3,457,261.
Klebe, Johann F., to General Electric Company. Cyclic silyl amides. 3,479,383, 11-18-69, Cl. 260-448.2
Klebe, Johann F.: *See*—
Finkbeiner, Herman L.; and Klebe, Johann F.,3,432,488.
Finkbeiner, Herman L.; and Klebe, Johann F.,3,436,415.
Finkbeiner, Herman L.; and Klebe, Johann F.,3,436,416.
Klebert, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethanes prepared from aromatic amines having alkyl groups in the ortho positions to the amine groups. 3,428,610, 2-18-69, Cl. 260-75.
Klebl, Wolfram; Kubiak, Herbert; Staschewski, Harry; and Schatz, Friedrich, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Controllable drive means for accumulator stranding apparatus. 3,455,098, 7-15-69, Cl. 57-59.
Klee, Charles W.: *See*—
Caldwell, John H., IV; Klee, Charles W.; Hiller, Alexander J.; Hanley, Thure E.; and Mathes, Robert H.,3,475,637.
Klee, David J., to Air Products and Chemicals, Inc. Cryogenic fluid conveying system. 3,433,028, 3-18-69, Cl. 62-45.
Klee, David J.: *See*—
Jones, Robert D.; and Klee, David J.,3,468,077.
Klee, Harvey J., to United States of America, Navy. Transmit receive sonar array network. 3,425,031, 1-28-69, Cl. 340-3.
Klee, Helmut: *See*—
Hartlapp, Gerhard; Kowalski, Werner; and Klee, Helmut,3,449,068.
Klee, John Michael: *See*—
Manger, Charles Frederick; Klee, John Michael; and Carter, Richard James,3,442,100.
Klee, Maurice: *See*—
Davidow, Martin A.; and Klee, Maurice,3,478,749.
Klee, Werner, to Desma-Werke Gesellschaft mit beschrankter Haftung. Apparatus for making shoes by injection molding. 3,474,496, 10-28-69, Cl. 18-36.
Kleeberg, Gunther K. E., to St. Regis Paper Company. Refuse sack holder. 3,443,745, 5-13-69, Cl. 232-43.2
Kleeberg, Gunther K. E., to E. B. V. Systems, Inc., mesne. Remote control valve operating mechanism. 3,466,005, 9-9-69, Cl. 251-69.
Kleeberg, Wolfgang; Denk, Hans; and Hauschildt, Klaus-Robert, to Siemens Aktiengesellschaft. Method of producing flexible epoxy resins. 3,438,909, 4-15-69, Cl. 260-2.
Kleeberger, Klement: *See*—
Fahlenberg, Paul; and Kleeberger, Klement,3,466,993.
Kleeberger, Rudolf, to Kugelfischer Georg Schafer & Co. Fuel injection pump. 3,443,554, 5-13-69, Cl. 123-140.
Kleedehn, Eckhart: *See*—
Herbst, Hagen; Kleedehn, Eckhart; and Pietrucha, Herbert,3,478,462.
Kleefisch, Karl-Heinz: *See*—
Beckmann, Rolf; Kleefisch, Karl-Heinz; and Dobrikat, Wolfgang,3,452,123.
Kleen, Werner, to Siemens Aktiengesellschaft. Apparatus for spot-heating of workpieces by laser radiation. 3,452,178, 6-24-69, Cl. 219-121.
Kleen-Tip Corporation, The: *See*—
Barnes, Lewyn E.; and Struble, Paul F., 3,450,398.
Kleenie Master Company: *See*—
O'Donnell, James D., 3,484,017.

Kleer-Vu Industries, Inc.: *See—*
Deans, Howard; and Pace, Vincent, 3,420,035.
Osher, Benjamin B., 3,446,260.
Osher, Benjamin B., 3,447,540.
Osher, Benjamin B.; and Mascolo, Benjamin R., 3,483,909.
Sager, Thomas, 3,478,871.

Kleiman, Joseph P.: *See—*
Dubeck, Michael; and Kleiman, Joseph P.,3,434,814.
Knapp, Gordon G.; and Kleiman, Joseph P.,3,458,296.

Kleiman, Joseph, to Whittaker Corporation. Correctable references in gyros. 3,449,960, 6-17-69, Cl. 74-5.4
Sleven, Marvin; Kleiman, Joseph; and Hobel, Daniel,3,479,648.

Kleiman, Theodore W. Fishing line clipper. 3,447,173, 6-3-69, Cl. 7-14.3

Kleimenhagen, Gunter: *See—*
Clausen, Rolf; Kleimenhagen, Gunter; and Salje, Ernst,3,460,412.

Klein, Anne. Toy book. 3,471,962, 10-14-69, Cl. 46-22.

Klein, Arnold: *See—*
Vogt, Wilhelm; and Bahr, Werner, 3,474,570.

Klein, Arthur, to Kabelschlepp G.m.b.H. Covering system for guiding paths of machine tools. 3,425,481, 2-4-69, Cl. 160-202.

Klein, Artur, to Waldrich, H. A., G.m.b.H. Process of polishing smooth rolls with curved superficies. 3,469,353, 9-30-69, Cl. 51-289.

Klein, Christof Hans: *See—*
Beuchle, Friedrich; Hahm, Heinz; Klein, Christof Hans; and Beller, Hans,3,477,551.

Klein, Dietrich J., to Electro-Tec Corporation, mesne. Index mechanism for rotary switches. 3,480,748, 11-25-69, Cl. 200-66.

Klein, Donald L.: *See—*
Kerwin, Robert E.; Klein, Donald L.; and Sarace, John C.,3,475,234.

Klein, Donald L., to Bell Telephone Laboratories, Incorporated. Method for the preparation of atomically clean silicon. 3,436,284, 4-1-69, Cl. 156-17.

Klein, Donald L.; and Lawley, Kenneth L., to Bell Telephone Laboratories, Incorporated. Silicon oxide tunnel diode structure and method of making same. 3,424,954, 1-28-69, Cl. 317-234.

Klein, Ernst-August, to Schloemann Aktiengesellschaft. Flat-blade trimming shears. 3,440,914, 4-29-69, Cl. 83-556.

Klein, Erwin, to Siemens Aktiengesellschaft. Apparatus for modulating direct voltages and currents. 3,430,054, 2-25-69, Cl. 250-217.

Klein, Frederick A., to Phillips Petroleum Company. Method of reducing the permeability of a subsurface stratum. 3,443,640, 5-13-69, Cl. 166-294.

Klein, Frederick A., to Phillips Petroleum Company. Thermal oil stimulation process. 3,465,822, 9-9-69, Cl. 166-256.

Klein, Frederick A.: *See—*
Cornelius, Archie J.; and Klein, Frederick A.,3,457,995.

Klein, Friedrich J.: *See—*
Draeger, Jorg A.; and Klein, Friedrich J.,3,446,061.

Klein, Fritz S.; and Bar-Eli, Kedma, to Yeda Research and Development Co., Ltd. Method for the enrichment of deuterium. 3,457,041, 7-22-69, Cl. 23-204.

Klein, George I., to Stauffer Chemical Company. Smoking tobacco composition. 3,464,420, 9-2-69, Cl. 131-17.

Klein, George I., to Stauffer Chemical Company. Tobacco smoke filter. 3,464,423, 9-2-69, Cl. 131-261.

Klein, George T. Composting device. 3,438,584, 4-15-69, Cl. 239-651.

Klein, Georges, to Compagnie Generale d'Electricite. Electric current generators of the magnetohydrodynamic type. 3,428,836, 2-18-69, Cl. 310-11.

Klein, Georges, to Compagnie Generale d'Electricite. Magnetic coil having conductor turns arranged according to the lines of force of the magnetic field which the coil creates. 3,439,305, 4-15-69, Cl. 335-299.

Klein, Gerhart P., to Mallory, P. R., & Co., Inc. Method for making porous electrodes comprising freezing wet powder and sintering. 3,422,515, 1-21-69, Cl. 29-25.41

Klein, Gerhart P., to Mallory, P. R., & Co., Inc. Slurry dispenser. 3,456,694, 7-22-69, Cl. 141-283.

Klein, Gerhart P., to Mallory, P. R., & Co., Inc. Powder on foil solid tantalum capacitor. 3,458,916, 8-5-69, Cl. 29-25.42

Klein, Gerrit, to North American Philips Company, Inc. Delta voltage generators. 3,430,161, 2-25-69, Cl. 331-111.

Klein, Gerrit, to U.S. Philips Corporation, mesne. Waveform generator. 3,458,729, 7-29-69, Cl. 307-261.

Klein, Hans Christof, to Teves, Alfred, G.m.b.H. Brake-force regulator system. 3,475,059, 10-28-69, Cl. 303-22.

Klein, Hans Christof, to Teves, Alfred, G.m.b.H. Disk brake with galvanic corrosion protection. 3,476,222, 11-4-69, Cl. 188-152.

Klein, Hans-Christof: *See—*
Botterill, John R.; Klein, Hans-Christof; and Oberthur, Heinrich,3,449,017.

Klein, Harold T.: *See—*
Klein, Harold T.; and Klein, Harold T.,3,463,247.

Klein, Harold T.; and Klein, Harold T., to Robbins, James S., and Associates, Inc. Drill stem breakout apparatus. 3,463,247, 8-26-69, Cl. 173-164.

Klein, Harvey Gerald; and Sherr, Allan Ellis, to American Cyanamid Company. Propene-3-phosphonates and polymers thereof. 3,468,982, 9-23-69, Cl. 260-941.

Klein, Harvey S.: *See—*
Rust, Frederick F.; and Klein, Harvey S.,3,480,661.

Klein, Harvey S., to Shell Oil Company. Ethyl vinyl sulfone production. 3,448,159, 6-3-69, Cl. 260-607.

Klein, Harvey S., to Shell Oil Company. Olefin epoxidation. 3,472,876, 10-14-69, Cl. 260-348.5

Klein, Heinrich: *See—*
Buick, Kurt; Klein, Heinrich; and Weber, Eduard,3,466,853.

Klein, Heinrich; Weber, Eduard; Pieper, Rudolf; and Hoffmann, Alfred, to Siemens Aktiengesellschaft. Vortex type separator and collector system. 3,477,569, 11-11-69, Cl. 209-144.

Klein, Heinz-Gunter; Lang, Konrad; Schmeling, Edith-Luise; and Weissbach, Helmut, to Farbenfabriken Bayer Aktiengesellschaft. Process for chemical plating. 3,424,660, 1-28-69, Cl. 204-147.

Klein, Herbert H., to Unarco Industries, Inc. Connections for tiered storage rack units. 3,465,898, 9-9-69, Cl. 211-177.

Klein, Jacques; and Mansard, Bernard, to Commissariat a l'Energie Atomique. Device for polishing specimens. 3,440,770, 4-29-69, Cl. 51-129.

Klein, John A.: *See—*
Paull, Peter L.; Klein, John A.; and Dille, Roger M.,3,473,903.

Klein, Joseph J., to Union Carbide Corporation. Method of making non-woven fibrous web. 3,451,109, 6-24-69, Cl. 28-72.2

Klein, Joseph J., to Union Carbide Corporation. Needled composite web and method of making the same. 3,451,885, 6-24-69, Cl. 161-80.

Klein, Karl J., to GAF Corporation. Iron complexes of pyrazolone monoazo dyes and method of preparation. 3,423,393, 1-21-69, Cl. 260-147.

Klein, Karl: *See—*
Heissmeier, Walter; Klein, Karl; and Wagnerberger, Wolfgang,3,474,430.

Klein, Keith W., to General Electric Company. Series-connected electrical circuit breaker assembly. 3,421,128, 1-7-69, Cl. 337-35.

Klein, Keith W., to General Electric Company. Panelboard load center. 3,463,967, 8-26-69, Cl. 317-119.

Klein, Keith W., to General Electric Company. Circuit breaker selective trip mechanism. 3,464,045, 8-26-69, Cl. 337-35.

Klein, Kenneth W.: *See—*
Decker, Robert M.; and Klein, Kenneth W.,3,461,952.

Klein, Kurt: *See—*
Biegler, Hanns; Kallrath, Gottfried; and Klein, Kurt,3,484,371.

Klein, Kurt; and Maluzi, Joachim, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the purification of oils. 3,484,368, 12-16-69, Cl. 208-251.

Klein, Louis A.: *See—*
Newman, Daniel J.; and Klein, Louis A.,3,443,910.

Klein, Louis E., to Parkline Corporation. Modular decorative wall construction with corner bracket. 3,458,963, 8-5-69, Cl. 52-288.

Klein, Louis. Extension support for sliding table saws. 3,429,347, 2-25-69, Cl. 143-52.

Klein, Ludwig. Adjustable load rack for trucks. 3,428,330, 2-18-69, Cl. 280-179.

Klein, Martin G.: *See—*
Cherney, Seymour; Klein, Martin G.; and Eisenberg, Morris,3,438,812.

Klein, Norman E., to Deering Milliken Research Corporation. Spinning. 3,439,486, 4-22-69, Cl. 57-58.49

Klein, Oscar J. C.: *See—*
Cooper, Joseph H.; and Klein, Oscar J. C.,3,475,436.

Klein, Otto C.; and Mason, Gilbert E., to American Zinc Company. Zinc oxide. 3,429,662, 2-25-69, Cl. 23-148.

Klein, Paul E.: *See—*
Anderson, Roland M.; and Klein, Paul E.,3,429,045.

Klein, Robert I.: *See—*
Marchesini, Cesare; Hogg, Walter R.; and Klein, Robert I.,3,424,897.

Klein, Robert, Jr. Coupling device. 3,435,781, 4-1-69, Cl. 104-172.

Klein, Robert S., to Birma Products Corporation. Vapor barrier jacketing for pipe structures. 3,443,599, 5-13-69, Cl. 138-140.
Cousin, Maurice; Klein, Robert; Loiselet, Yves; and Sonet, Gilbert,3,456,125.

Klein, Ronald L., to Ultronic Systems Corporation. Validity checking system. 3,465,289, 9-2-69, Cl. 340-149.

Klein, Theodore J., to United States of America, Army. Reception of time dispersed signals utilizing impulse response storage in recirculating delay lines. 3,426,281, 2-4-69, Cl. 325-324.

Klein, Thomas, to North American Philips Company, Inc. Process of making a transistor with an inverted structure. 3,436,279, 4-1-69, Cl. 148-175.

Klein, Thomas, to U.S. Philips Corporation, mesne. Integrated circuits using heavily doped surface to prevent channels and methods for making. 3,456,169, 7-15-69, Cl. 317-235.

Klein, Thomas; and Nicholas, Keith Harlow, to U.S. Philips Corporation, mesne. Method of removing alkali metal impurity from an oxide coating. 3,470,076, 9-30-69, Cl. 204-130.
Klein, Walter A.: *See—*
Bockman, Carl; Nelson, Ronald S.; and Klein, Walter A.,3,424,593.
Klein, Walter F.: *See—*
Hoskins,Thomas A.; and Klein, Walter F.,3,447,743.
Klein, Walter, to Leitz, Ernst, G.m.b.H. Anastigmatic medium-power microscope objective. 3,443,862, 5-13-69, Cl. 350-220.
Klein, Walter, to Leitz, Ernst, G.m.b.H. Pancratic optical system. 3,454,321, 7-8-69, Cl. 350-43.
Klein, Walter, to Leitz, Ernst, GmbH. Optical system of the zoom type. 3,458,244, 7-29-69, Cl. 350-43.
Klein, William A., to International Business Machines Corporation. Variable ratio die cast pulse transformer. 3,486,149, 12-23-69, Cl. 336-192.
Klein, William A.: *See—*
Clark, Kendall; Herrmann, Karl E.; and Klein, William A.,3,477,051.
Klein, William G.; and Tabor, Warner H., to Whitin Machine Works, Inc. Draw frame for blending fibers. 3,447,206, 6-3-69, Cl. 19-243.
Klein, William R.: *See—*
Leach, Byron E., 3,421,981.
Klein, Winfried, to Beteiligungs- und Patentverwaltungsgesellschaft mit Beschrankter Haftung. Method of and apparatus for explosive treatment of metals. 3,464,249, 9-2-69, Cl. 72-56.
Kleinberg, Leonard L., to United States of America, National Aeronautics and Space Administration. Stable amplifier having a stable quiescent point. 3,466,560, 9-9-69, Cl. 330-30.
Kleine, Rudolph W.; and Wirth, Jon C., to C.R.O. Engineering Co., Inc., mesne. Machine control for cutting geometric shapes. 3,434,212, 3-25-69, Cl. 33-27.
Kleine-Weischede, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of mixed phosphonic acid esters. 3,480,701, 11-25-69, Cl. 260-982.
Kleiner, Eduard K., to Geigy Chemical Corporation. Polymers of N-perfluoroalkanoylamino-and N- perfluoroalkanoylaminoalkyl acrylamides and methacrylamides. 3,428,709, 2-18-69, Cl. 260-836.
Kleiner, Eduard K., to Geigy Chemical Corporation. Polymers of O-acrylyl- and O-methacrylylamidoximes. 3,483,277, 12-9-69, Cl. 260-897.
Kleiner, Erich J.; and Peed, Garland P., to Garrett Corporation, The. Aerodynamically balanced valve. 3,457,955, 7-29-69, Cl. 137-625.44
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef, to Hartmann & Braun Aktiengesellschaft. Multiplex recorder. 3,484,789, 12-16-69, Cl. 346-34.
Kleiner, Helmut: *See—*
Oertel, Harald; Rinke, Heinrich; Rosendahl, Friedrich Karl; and Kleiner, Helmut,3,485,778.
Kleiner, Helmut, to Farbenfabriken Bayer Aktiengesellschaft. Diszao dyestuffs containing the phenyl-azo-pheny- azo-phenyl moiety. 3,451,991, 6-24-69, Cl. 260-187.
Kleiner, Willy. Root-pin for model-teeth. 3,466,751, 9-16-69, Cl. 32-40.
Kleinerman, Marcos Y., to American Optical Company, mesne. Fluorescent lanthanide chelates of dibenzoylamine. 3,422,023, 1-14-69, Cl. 252-301.2
Kleinerman, Marcos, to American Optical Corporation, mesne. Fluorescent europium chelates with tetradentate ligands. 3,484,380, 12-16-69, Cl. 252-301.2
Kleinermanns, Hubert. Process for making a pile fabric. 3,444,017, 5-13-69, Cl. 156-72.
Kleinert, Theodor N.: *See—*
Bryce, John R. G.; and Kleinert, Theodor N.,3,448,002.
Kleinewefers, Joh., Sohne Maschinenfabrik: *See—*
Korsch, Alfred, 3,429,517.
Korsch, Alfred, 3,457,741.
Korsch, Alfred, 3,460,221.
Korsch, Alfred, 3,470,948.
Lopata, Karl-Peter, 3,470,906.
Muller, Gernot; and Junk, Dieter, 3,436,913.
Muller, Gernot, 3,448,484.
Muller, Gernot, 3,456,993.
Sass, Hans G., 3,432,894.
Schiffer, Gunter, 3,421,189.
Schiffer, Gunter; and Lopata, Karl-Peter, 3,421,345.
Schiffer, Gunter, 3,460,359.
Schiffer, Gunther; and Ruhm, Hans-Georg, 3,465,551.
Vorderbrugge, Hermann, 3,429,446.
Wagner, Fritz W., 3,427,882.
Kleinfelder, Earl O., to Du Pont de Nemours, E. I., and Company. Fluidizing gas introduction into a reactor. 3,475,117, 10-28-69, Cl. 23-87.
Kleingers, Alfred B., Jr., to Interstate Folding Box Company, The. Display carton for tubes or bottles. 3,420,362, 1-7-69, Cl. 206-45.14
Kleinhagauer, Othmar: *See—*
Holzgruber, Wolfgang; Kleinhagauer, Othmar; and Schwanter, Fritz,3,439,103.
Kleinhagauer, Otmar: *See—*
Tarmann, Bruno; and Kleinhagauer, Otmar,3,478,809.
Kleinkauf, Allen R. Apparatus for continuous pressure cooking of fibrous materials. 3,464,342, 9-2-69, Cl. 99-235.
Kleinknecht, Hans P., to Radio Corporation of America. Beam-of-light transistor utilizing P-N junctions which are non-abrupt and non-tunneling with a base region of degenerate material. 3,427,460, 2-11-69, Cl. 250-211.
Kleinle, Alois, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Coaxial jacketted thermocouple. 3,449,174, 6-10-69, Cl. 136-228.
Kleinman, Jacob L. Circular movable air dispersion implement. 3,482,077, 12-2-69, Cl. 219-370.
Kleinrock, Leonard: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,403.
Kleinschmidt, Hans Joachim, to Gelenkwellenbau GmbH. Needle-bearing shell, particularly for the star pins of universal joints. 3,439,965, 4-22-69, Cl. 308-212.
Kleinschmidt, Peter; and Budnowski, Manfred, to Henkel & Cie G.m.b.H. Process for the preparation of epoxide resins. 3,424,721, 1-28-69, Cl. 260-47.
Kleinsmith, Joseph P.: *See—*
Simon, George; and Simon, Joseph A., 3,480,256.
Kleinstuck, Werner; and Heger, Klaus, to General Motors Corporation. Hydraulic brake systems for motor vehicles. 3,433,019, 3-18-69, Cl. 60-54.5
Kleisa, Kurt: *See—*
Schmeling, Gerhard; Peters, Werner; and Kleisa, Kurt,3,444,048.
Kleiss, Louis D., to Phillips Petroleum Company. Polarographic analyzer. 3,432,418, 3-11-69, Cl. 204-195.
Kleiss, Louis D., to Phillips Petroleum Company. Compensation of viscometer for variations in temperature profile of sample. 3,479,863, 11-25-69, Cl. 73-54.
Kleissle, Raymond E., to Best Fertilizers Co. Weighing and loading system for bulk material. 3,454,170, 7-8-69, Cl. 214-2.
Kleist, Robert A., to Dartex, Inc. Tape transport. 3,458,154, 7-29-69, Cl. 242-55.12
Kleist, Walter; Moll, Franz; Kruck, Peter; and Hellmig, Ehrhard, to Agfa Aktiengesellschaft. Highly sensitive direct positive photographic material with extremely steep gradation. 3,436,217, 4-1-69, Cl. 96-29.
Klekamp, Richard W. Extensible license plate holder. 3,439,440, 4-22-69, Cl. 40-209.
Klem, Adrianus, to N.V. Optische Industrie 'De Oude Delft'. Beam current control circuit for television camera pick-up tube. 3,437,749, 4-8-69, Cl. 178-7.2
Klemm, Robert E. Cooking apparatus. 3,479,488, 11-18-69, Cl. 219-536.
Klemm, William F.; and Alber, Hans, 1/3 to Peter, Henry B. Balanced control for metered flow with serially arranged pressure regulating valve and restrictor tubes. 3,426,793, 2-11-69, Cl. 137-599.
Klemmer, Jack W., to Hughes Aircraft Company. Thin-film resistors. 3,441,804, 4-29-69, Cl. 317-101.
Klemp, Hans-Joachim; and Redlich, Horst, to Teldec Telefunken-Decca Schallplatten G.m.b.H. Recording method and apparatus for compensating third order distortions. 3,457,374, 7-22-69, Cl. 179-100.4
Klempay, Raymond T.; and Bandy, Kenneth L., to McKay Machine Company, The. Strip working apparatus. 3,466,913, 9-16-69, Cl. 72-163.
Klems, John W.: *See—*
Shull, John D., Jr.; and Klems, John W.,3,481,829.
Klenck, Herbert R.: *See—*
Koehnlein, Kurt W.; and Klenck, Herbert R.,3,461,623.
Klender, Gerald J., to Uniroyal, Inc. Phosphonitrilic polymers from phenoxy substituted phosphonitrilic halides and bisphenols. 3,453,235, 7-1-69, Cl. 260-47.
Klender, Gerald J., to Uniroyal, Inc. Partially blocked cyclic phosphonitrillic halides. 3,459,838, 8-5-69, Cl. 260-973.
Klenk, Anatol. Sequentially closing and opening alternately seating flow control valve. 3,443,596, 5-13-69, Cl. 137-627.5
Klenk, Ludwig; and Seifried, Walter, to Kalle Aktiengesellschaft. Process and apparatus for the manufacture of thermoplastic films. 3,423,493, 1-21-69, Cl. 264-93.
Klenk, Ludwig; Seifried, Walter; and Strutzel, Hans, to Kalle Aktiengesellschaft. Apparatus for the production of multilayer tubes from thermoplastics. 3,486,196, 12-30-69, Cl. 18-14.
Klentz, Harley N.: *See—*
Schoepe, Adolf; and Klentz, Harley N.,3,476,200.
Klenz, Karl A., to Rheem Manufacturing Company. Pressure control valve. 3,446,239, 5-27-69, Cl. 137-469.

Klepac, Robert J. Beach cabana. 3,431,923, 3-11-69, Cl. 135-5.
Klepfer, Harold H., to United States of America, Atomic Energy Commission. Zirconium base alloy. 3,431,104, 3-4-69, Cl. 75-177.
Kleppinger, Robert E.: *See*—
Bertram, Howard W.; Hart, Oliver P.; and Kleppinger, Robert E.,3,465,210.
Klepzig, Glen W., to Chambers Corporation. Oven doors. 3,453,997, 7-8-69, Cl. 126-198.
Klere, Jean; and Gadefaix, Roger, to Lever Brothers Company. Process for improving fatty acids. 3,471,536, 10-7-69, Cl. 260-419.
Klerer, Julius, to Bell Telephone Laboratories, Incorporated. Thin film capacitor. 3,483,451, 12-9-69, Cl. 317-258.
Klesper, Ernst; and Zoebelein, Hans, to Henkel & Cie, GmbH. Preparation of 3,3-bix(chloromethyl)oxetane. 3,449,370, 6-10-69, Cl. 260-333.
Klesper, Herbert; Steinfatt, Fritz; Langheinrich, Klaus; and Lorenz, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Paraformaldehyde phenolic compositions. 3,471,576, 10-7-69, Cl. 260-619.
Klessig, Ernst F.; and Destache, Richard W., to Racine Hydraulics & Machinery Inc. Fluidic interface valve and control system. 3,452,779, 7-1-69, Cl. 137-596.14
Kletch, Stanley J., Jr.: *See*—
Heyn, Fred M.; and Kletch, Stanley J., Jr.,3,483,920.
Kletschke, Hans; and Macholdt, Hans, to Kalle Aktiengesellschaft. Apparatus for the continuous transportation of pulverulent or fibrous material. 3,425,640, 2-4-69, Cl. 241-236.
Kleven, Lowell A., to Rosemount Engineering Company. Resistance measuring method and apparatus having means for alternately connecting unknown resistor to different arms or bridge. 3,461,383, 8-12-69, Cl. 324-62.
Klibbe, Arthur W.; and Regitz, William M., to Bell Telephone Laboratories, Incorporated. Memory using sense amplifiers with gated feedback. 3,462,748, 8-19-69, Cl. 340-174.
Klickstein, Maurice E.; and Klickstein, Reuben B.Infant's harness for use with seat belts. 3,428,029, 2-18-69, Cl. 119-96.
Klickstein, Reuben B.: *See*—
Klickstein, Maurice E.; and Klickstein, Reuben B.,3,428,029.
Klier, Lewis; and Simovits, Stephen S., Jr., to American Plasticraft Company. Pin protector. 3,423,717, 1-21-69, Cl. 339-36.
Kliever, Waldo H.: *See*—
Little, Charles H.; Kliever, Waldo H.; and Weimels, Eugene L.,3,473,157.
Kliewer, George G., to Commodity Marketers, Inc. Successive temperature indicator. 3,479,876, 11-25-69, Cl. 73-358.
Kliewer, George G.; and Roberts, John H., to Commodity Marketers, Inc. Machine for tying carcasses. 3,474,489, 10-28-69, Cl. 17-11.
Kliewer, Wesley P. Actuation device controlled by deformable key having end-to-end conformity. 3,432,017, 3-11-69, Cl. 194-4.
Kliklok Corporation: *See*—
Baker, Thomas R.; Hoyrup, Sigurd J.; and Posen, Boris S., 3,452,855.
Di Vecchio, Angelo N., 3,443,353.
Mahncke, William H., 3,453,800.
Mahncke, William H., 3,465,490.
Pierce, Chester J., Jr., 3,450,330.
Pierce, Chester J., Jr., 3,481,525.
Pierce, Chester J., Jr., 3,481,526.
Klima, Edward F.; Seidel, Wilber R.; DeGrove, William; and Hightower, Frank J., to United States of America, Interior. Electrical trawl net system. 3,483,649, 12-16-69, Cl. 43-9.
Klimek, Boleslaw, to Berg Mfg., & Sales Co. Dual force treadle application valve. 3,449,020, 6-10-69, Cl. 303-54.
Klimek, Norbert: *See*—
Huber, Manfred; and Klimek, Norbert,3,451,279.
Kliment, Jiri: *See*—
Hron, Jaroslav; Kliment, Jiri; Kryzanek, Vladimir; Mirtes, Bohumil; and Vytiska, Alois,3,436,751.
Kliment, Lubomir: *See*—
Svoboda, Frantisek; and Kliment, Lubomir,3,449,929.
Klimisch, Kenneth W.: *See*—
Bratton, Francis H.; Fick, Herbert J.; and Klimisch, Kenneth W.,3,449,193.
Klimmek, Norman; Melill, Joseph; King, Julian P., Jr.; Lorenz, Roy H.; and Hollingsworth, Frank H., to North American Rockwell Corporation. Rotatable magneto-electric armature and method of fabricating same. 3,462,628, 8-19-69, Cl. 310-264.
Klimo, Robert G.: *See*—
Murray, James E.; and Klimo, Robert G.,3,436,644.
Murray, James E.; and Klimo, Robert G.,3,467,852.
Klimov, Nikolai Semenovich: *See*—
Butaev, Filipp Ivanovich; Klimov, Nikolai Semenovich; Pertsev, Alexei Alexandrovich; Stepanov, Nikolai Pavlovich; Shemaev, Alexandr Mikhailovich; and Shkolin, Ilya Dmitrievich,3,437,863.
Klimsta, Paul D., to Searle, G. D., & Co.17α-Methyl-3α-thiocyano-5α-androstan-17β-ol. 3,452,063, 6-24-69, Cl. 260-397.5
Klimstra, Paul D., to Searle, G. D., & Co.(Optionally 17-alkylated) estra-4,9(10)- diene-3α3β,17β-diols and esters corresponding. 3,423,404, 1-21-69, Cl. 260-239.55
Klimstra, Paul D., to Searle, G. D., & Co. Process and intermediates for manufacture of 3-hydroxy-17-keto steroids. 3,423,435, 1-21-69, Cl. 260-397.4
Klimstra, Paul D., to Searle, G. D., & Co.17α-Alkynylestra-4,9(10)-diene-3β, 17βdiols and esters thereof. 3,424,768, 1-28-69, Cl. 260-397.5
Klimstra, Paul D., to Searle, G. D., & Co.(Optionally 17-alkylated) 17-oxygenated-7- methyl-5α-androst-2-enes. 3,426,048, 2-4-69, Cl. 260-397.3
Klimstra, Paul D., to Searle , G. D., & Co.17-Alkenyl/alkynyl-5α-androst-1-ene-3β, 17β- diols, esters thereof and intermediates thereto. 3,435,030, 3-25-69, Cl. 260-239.55
Klimstra, Paul D., to Searle, G. D., & Co. 7-Methylestr-2-en-17-one and derivatives thereof. 3,435,055, 3-25-69, Cl. 260-397.3
Klimstra, Paul D., to Searle, G. D., & Co.17α-phenylalkyl/phenylethynyl/phenylvinyl-13β- alkylgona-1,3,5(10)-triene-3,17β-diols and esters thereof. 3,462,467, 8-19-69, Cl. 260-397.5
Klimstra, Paul D., to Searle, G. D., & Co.13β-alkyl-17-[illegible]-4-[illegible]-3 β,17β- diols and esters corresponding. 3,467,682, 9-16-69, Cl. 260-397.5
Klimstra, Paul D., to Searle, G. D., & Co.(Optionally 17-alkylated) 1β-methyl-5α-androstane- 1α,17β-diols,Δ²derivatives corresponding and esters thereof. 3,471,526, 10-7-69, Cl. 260-397.4
Klimstra, Paul D., to Searle, G. D., & Co. Steroidal 17-adamantoyl esters. 3,483,234, 12-9-69, Cl. 260-397.4
Klinck, John L., to Hamilton Watch Company. Rewind mechanism for an electric timepiece. 3,474,618, 10-28-69, Cl. 58-41.
Kline, Arthur J., Jr.: *See*—
Peterson, William D.; and Kline, Arthur J., Jr.,3,470,475.
Kline, Charles M.: *See*—
Webster, Neil W.; and Kline, Charles M.,3,462,926.
Kline, Crandall R., Jr., to Goodyear Tire & Rubber Company, The. Tire and its manufacture. 3,452,800, 7-1-69, Cl. 152-356.
Kline, James A., to Gulf General Atomic Incorporated, mesne. Magnetic forming apparatus. 3,423,978, 1-28-69, Cl. 72-56.
Kline, John E.: *See*—
Votaw, Richard L.; and Kline, John E.,3,478,409.
Kline, Kenneth A., to Esso Production Research Company. Laying pipe in water. 3,440,826, 4-29-69, Cl. 61-72.3
Kline, Larry H.: *See*—
Ukmar, Milosh L.; and Kline, Larry H.,3,453,618.
Kline, Leroy F.; and Sendelbach, Ralph E., to Ford Motor Company. Air cleaner. 3,486,312, 12-30-69, Cl. 55-363.
Kline, Millard F. Retainer for purification media for gas from sewer line vents. 3,475,885, 11-4-69, Cl. 55-357.
Kline, Paul E.: *See*—
Soderquist, Frederick J.; Boyce, Harold D.; and Kline, Paul E.,3,435,086.
Kline, Ralph Willard: *See*—
Hull, Maurice E.; and Kline, Ralph Willard,3,477,853.
Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W.,3,471,302.
Kline, Raymond V.; and Bross, Ronald A., to Lear Siegler, Inc., mesne. Compensation circuit for electroluminescent lamps. 3,436,596, 4-1-69, Cl. 315-283.
Kline, Thomas F.: *See*—
Berry, Thomas G.; and Kline, Thomas F.,3,467,328.
Kling, Frederick R.: *See*—
Serrell, Robert; and Kling, Frederick R.,3,484,950.
Kling, Hans: *See*—
Teucher, Siegfried; and Kling, Hans,3,433,490.
Kling, Harry P., to Martin-Marietta Corporation. Process for fabricating nuclear reactor fuel elements. 3,422,523, 1-21-69, Cl. 29-420.5
Kling, Klaus: *See*—
Baklien, Asbjorn; Gregory, Jocelyn M.; and Kling, Klaus,3,478,057.
Kling, Olaf E.: *See*—
Jorgenson, John P.; and Kling, Olaf E.,3,481,008.
Kling, Rudolf: *See*—
Becker, Ernst; and Kling, Rudolf,3,473,639.
Klingaman, Dean C.: *See*—
Page, Russell D.; Klingaman, Dean C.; Belke, William H.; Crayton, John W.; and Scholl, Rolland D.,3,486,564.
Klingbail, Robert L., to Dow Chemical Company, The. Benzothiazolium complexes for control of parasitic organisms in animals. 3,469,009, 9-23-69, Cl. 424-270.
Klingbeil, Werner: *See*—
Lutz, Hans; Gailing, Otto; and Klingbeil, Werner,3,429,051.
Klingel, John B., to Struthers Scientific and International Corporation. Autoclaving apparatus. 3,423,805, 1-28-69, Cl. 25-133.
Klingenberg, Alfred S., to Bell Telephone Laboratories, Incorporated. Clamping means for retaining electric plug and socket connectors. 3,431,537, 3-4-69, Cl. 339-75.
Klingenstein, Paul, to Berkey Photo, Inc. Camera with film marking structure. 3,463,064, 8-26-69, Cl. 95-1.1
Klinger, Calvin E. Illuminated camp mast. 3,476,929, 11-4-69, Cl. 240-11.2
Klinger, Guenther H.; and Cwikla, Martin V., to GAF Corporation. Accelerator for chemical ripening. 3,429,708, 2-25-69, Cl. 96-94.

Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr., to Borg-Warner Corporation. Metal plating of plastic materials. 3,445,350, 5-20-69, Cl. 204-30.
Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr., to Borg-Warner Corporation. Metal plating of plastic materials. 3,479,160, 11-18-69, Cl. 29-195.
Klinger Manufacturing Company, Limited, The: *See*—
Buck, Thomas M.; and Satterwhite, Fred B., 3,434,189.
Mattingly, Denis Albert Edward, 3,425,106.
Mattingly, Denis Albert Edward; and Gilchrist, Reginald S., 3,486,320.
McIntyre, Ronald, 3,464,096.
Satterwhite, Fred B., 3,431,609.
Satterwhite, Fred B., 3,454,998.
Klinger, Richard C.; and Kollodge, Marvin A., to United States of America, Army, mesne. Low level vibration test system. 3,425,266, 2-4-69, Cl. 73-71.6
Klinger, Stephen R.; De Nunzio, Herman A.; and Chryssopoulos, Demosthenis, to National Cash Register Company, The. Automatic protective cover for an interchageable disc assembly. 3,487,390, 12-30-69, Cl. 340-174.1
Klingler, Karl-Heinz: *See*—
Schuler, Wilhelm Alfons; Schlichtegroll, Ansgar V.; Beschke, Helmut; and Klingler, Karl-Heinz,3,485,926.
Klingler, Martin Luther, to AMP Incorporated. Hand tool for interchangeable heads. 3,423,987, 1-28-69, Cl. 72-444.
Klingner, Wolfgang; and Kittel, Arthur, to Olympia Werke AG. Tabulating apparatus for directly locking an escapement gear. 3,428,159, 2-18-69, Cl. 197-64.
Klingsberg, Erwin, to American Cyanamid Company. 4,5-Dicyano-1,3,2-dithiarsenolium salts. 3,485,860, 12-23-69, Cl. 260-440.
Klink, Clifford D. Hair curler. 3,439,686, 4-22-69, Cl. 132-40.
Klink, John: *See*—
Hamel, Conrad L.; Murphy, James P.; and Klink, John,3,482,323.
Klink, John, to Standard Gage Company, Inc. Support for gaging probe. 3,477,675, 11-11-69, Cl. 248-124.
Klink, Manfred, to Daimler-Benz Aktiengesellschaft. Apparatus for measuring engine oil consumption. 3,473,372, 10-21-69, Cl. 73-118.
Klink, Rainer: *See*—
Baron, Heinrich; Klink, Rainer; and Mohr, Gunther,3,426,124.
Baron, Karl Heinrich; Klink, Rainer; and Reiff, Fritz,3,448,190.
Klinkhamer, Clarence A. Fish lure. 3,457,666, 7-29-69, Cl. 43-41.
Klinkmuller, Horst; and Hirth, Friedrich, to Gann Apparate- und Maschinenbau G.m.b.H. Arrangement for drying wet materials. 3,474,545, 10-28-69, Cl. 34-45.
Klinzing, A. F., Co., Inc.: *See*—
Prentice, George D., 3,464,391.
Klippert, Thomas Edward: *See*—
Johnson, Kenneth W.; Klippert, Thomas Edward; and Ramler, Warren J.,3,457,517.
Klipping, Gustav: *See*—
Bogner, Gunther; and Klipping, Gustav,3,430,450.
Klipping, Gustav; Elsner, Albrecht; and Hildebrandt, Gerd, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Delivery of coolant to cryostats. 3,442,091, 5-6-69, Cl. 62-55.
Klipping, Gustav; Moll, Justus; and Wiedemann, Werner, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Stationary, large-capacity storage container for the storage of liquefied gases. 3,461,678, 8-19-69, Cl. 62-45.
Klisowsky, Micheal: *See*—
Ell, Fredrick James; and Klisowsky, Micheal,3,422,960.
Klisz, Adam E.: *See*—
Abbott, Harold W.; and Klisz, Adam E.,3,486,076.
Klitzsch, Max P. Distillation of sea water using steam turbine electric generator and solar still. 3,468,762, 9-23-69, Cl. 202-186.
KLM Company: *See*—
Exton, Norman T., 3,482,725.
Klochko, Nikolai Fedorovich: *See*—
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; Efodiev, Evgeny Petrovich; and Zafransky, Vladimir Mikhailovich,3,460,200.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; and Zafransky, Vladimir Mikhailovich,3,460,201.
Klocker, Norman F.: *See*—
Anthony, Myron L., 3,443,411.
Klockner-Humboldt-Deutz Aktiengesellschaft: *See*—
Beisner, Klaus; Jacobs, Willi; and Stockmann, Helmut, 3,481,548.
Decker, Hanns; Stockmann, Helmut; and Hurtmanns, Heinz, 3,477,651.
Deussner, Herbert; and Schmitz, Hugo, 3,443,687.
Deussner, Herbert, 3,485,012.
Ellingen, Karl, 3,482,375.
Hilge, Helmut, 3,427,787.
Isenhardt, Friedel; and Schlegl, Franz, 3,420,370.
Jansen, Wilhelm; and Bollmann, Gustav, 3,420,394.
Keylwert, Johann, 3,452,723.
Klockner-Werke AG: *See*—
Pfaff, Herbert; Lasseur, Walter; and Hillebrand, Friedhelm, 3,447,806.
Klockow, Dennis H., to Bell Telephone Laboratories, Incorporated. Hybrid feedback amplifier. 3,487,325, 12-30-69, Cl. 330-107.
Kloeckner, Edmond: *See*—
Donadieu, Lucien; Kloeckner, Edmond; Aupox, Marcell; and Royet, Jean,3,470,508.
Kloeckner-Werke AG.: *See*—
Heim, Armin; and Hillebrand, Friedhelm, 3,480,072.
Kloess, Hans K.; and Quade, Horst. Freight containers. 3,481,503, 12-2-69, Cl. 220-1.5
Klohs, Murle W.; and Petracek, Francis J., to Rexall Drug and Chemical Company. Substituted benzoxazocines and intermediates. 3,446,820, 5-27-69, Cl. 260-333.
Klohs, Murle W.; and Petracek, Francis J., to Dart Industries Inc. Substituted phthalans and intermediates. 3,471,519, 10-7-69, Cl. 260-346.2
Kloiber, Gyorgy: *See*—
Gering, Tibor; Kloiber, Gyorgy; and Lengyel, Zoltan,3,457,439.
Kloker, Norman F.: *See*—
Anthony, Myron L., 3,452,695.
Anthony, Myron L., 3,452,897.
Klomp, Alfred W., 25% to Goddard, Norman L. and 25% to Fulks, James K. Gear grinding machine. 3,423,879, 1-28-69, Cl. 51-5.
Klomparens, Jack R. Carton holder. 3,421,789, 1-14-69, Cl. 294-31.2
Kloosterman, Johannes: *See*—
de Winter, Max Salomon; Modderman, Pieter; and Kloosterman, Johannes,3,429,875.
Klootwijk, Arie, deceased (by Klootwijk, Johanna Maria, representative); and Van Deursen, Josephus H., to Shell Oil Company. Polymerization of beta-lactones. 3,471,456, 10-7-69, Cl. 260-78.3
Klootwijk, Arie, to Shell Oil Company. Alpha-substituted beta-propiolactone stabilization with alpha-halocarboxylic acids. 3,435,052, 3-25-69, Cl. 260-343.9
Klootwijk, Arie, to Shell Oil Company. Lactone stabilization. 3,448,122, 6-3-69, Cl. 260-343.9
Klootwijk, Arie: *See*—
Wagner, Willem M.; and Klootwijk, Arie,3,462,398.
Klopfer, Henry E., to United Aircraft Corporation. Ablative magnetohydrodynamic duct. 3,450,906, 6-17-69, Cl. 310-11.
Klopich, Marshall E.: *See*—
Abbott, Albert F.; Haskin, Bruce J.; and Klopich, Marshall E.,3,444,811.
Klopman Mills, Inc.: *See*—
Schenck, John R., 3,449,060.
Klopp, Donald W.: *See*—
Merz, William C.; and Klopp, Donald W.,3,480,480.
Klopping, Carel Peter: *See*—
Hendriks, Adrianus Anthonius Maria; Klopping, Carel Peter; Van Hout, Franciscus Adrianus; and Sanders, Petrus Wilhelmus,3,473,068.
Klopping, Carel Peter; and Gerlach, Hans Georg, to U.S. Philips Corporation, mesne. Vidicon grid consisting of set of parallel wires. 3,487,250, 12-30-69, Cl. 313-65.
Klopping, Hein L.; and Loux, Harvey M., to Du Pont de Nemours, E. I., and Company. Oxazinone compounds. 3,454,567, 7-8-69, Cl. 260-244.
Klosak, Eugene J., to Nalco Chemical Company. Method of preparing concentrated silica sols. 3,462,374, 8-19-69, Cl. 252-313.
Klose, Karl W., to Riegel Textile Corporation. Dual sewing machine assembly. 3,450,080, 6-17-69, Cl. 112-217.2
Klose, Karl W., to Riegel Textile Corporation. Dual supply roll handling mechanism. 3,474,978, 10-28-69, Cl. 242-58.
Klose, Reginald: *See*—
Stevens, Albert J. E.; Stevens, Charles H.; and Klose, Reginald,3,436,778.
Klose, Robert E.: *See*—
Mitchell, William A.; and Klose, Robert E.,3,471,301.
Klosek, Felix Peter: *See*—
Szabo, Ted T.; and Klosek, Felix Peter,3,451,462.
Klosel, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Rotor for thin layer evaporator. 3,423,782, 1-28-69, Cl. 15-246.5
Kloska, Anthony J., to General Electric Company. Electric surface heating assembly. 3,439,152, 4-15-69, Cl. 219-536.
Kloss, John W., to Lord Corporation. Optical transducer. 3,438,251, 4-15-69, Cl. 73-141.
Kloss, John W., to Lord Corporation. Dual reticle device. 3,457,018, 7-22-69, Cl. 356-153.
Klossika, Walter: *See*—
Bauer, Alfred; and Klossika, Walter,3,450,956.
Klothen, Irving: *See*—
Abbey, Anthony; Fortenbaugh, Robert Berendt; and Klothen, Irving,3,427,166.
Klothen, Irving; Fortenbaugh, Robert Berendt; and Abbey, Anthony, to American Cyanamid Company. Stabilization of animal and poultry feeds containing a tetracycline antibiotic. 3,434,844, 3-25-69, Cl. 99-2.

Klottschen, Heinz: *See—*
Frenyo, Pal; and Klottschen, Heinz,3,477,762.
Klotz, James M.: *See—*
Kompanek, Andrew J., Jr.; Phelps, Frederick L., Jr.; and Klotz, James M.,3,423,229.
Klotz, Robert E., to Litton Precision Products, Inc. Tunable microwave cavity using a piezoelectric device. 3,471,811, 10-7-69, Cl. 333-83.
Klotz, Robert E.: *See—*
Perkins, William H.; and Klotz, Robert E.,3,478,246.
Klotzek, George: *See—*
Izen, Manuel; and Klotzek, George,3,437,234.
Klotzek, Theodor: *See—*
Garbers, Ernst; Klotzek, Theodor; and Spingies, Erwin,3,439,778.
Klouda, John F., to Trane Company, The. Air cleaning apparatus. 3,438,180, 4-15-69, Cl. 55-126.
Klove, Edwin H., Jr.; and Noll, James L., to General Motors Corporation. Closure latch. 3,423,117, 1-21-69, Cl. 292-216.
Kloven, Gerald P., to Minnesota Mining and Manufacturing Company. Fluid-operated shutter. 3,445,166, 5-20-69, Cl. 355-121.
Kluck, James H., to Hammtronics Systems, Inc. Microwave unit seal. 3,448,232, 6-3-69, Cl. 219-10.55
Klug, Eugene D., to Hercules Incorporated. Modified hydroxypropyl cellulose and process. 3,431,254, 3-4-69, Cl. 260-231.
Klug, Helmut: *See—*
Kaupp, Josef; Klug, Helmut; Mittelberger, Karl Heinz; and Koln, Hans Georg,3,467,640.
Klug, Henry G.; and Williams, Arthur D. Moisture indicator material movement system. 3,452,588, 7-1-69, Cl. 73-73.
Klug, Herbert H., to Magnavox Company, The. Magnetically coupled core and coil having relative movement. 3,425,015, 1-28-69, Cl. 336-130.
Kluge, Gunter: *See—*
Cramer, Christoph; Kluge, Gunter; and Woitke, Ernst,3,451,204.
Kluge, Robert D., to Honeywell Inc. Projector tilt adjustment. 3,448,950, 6-10-69, Cl. 248-11.
Klugmann, Rafael. Combination wig and fall construction. 3,433,234, 3-18-69, Cl. 132-53.
Kluksdahl, Harris E.: *See—*
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell,3,434,960.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell,3,487,009.
Klumpp, Ferdinand, Jr., to Heyman Manufacturing Company, Inc. Tubular blade for electrical plug caps. 3,470,529, 9-30-69, Cl. 339-276.
Klumpp, Ferdinand, Jr.; and Jemison, William, to Heyman Manufacturing Company. Strain relief bushing. 3,464,659, 9-2-69, Cl. 248-56.
Klumpp, Ferdinand, Jr.; and Pfeifer, Louis, to Heyman Manufacturing Company. Method of forming wide crimp blade. 3,443,542, 5-13-69, Cl. 113-119.
Klunder, Kurt W.: *See—*
Terry, Peter L.; and Klunder, Kurt W.,3,444,001.
Kluss, William H., to Hughes Aircraft Company. Torque transferring arrangement. 3,462,626, 8-19-69, Cl. 310-114.
Klutchko, Sylvester: *See—*
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert Israel,3,466,288.
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert I.,3,479,358.
Kluth, Klaus. Vehicular warning device having spring positioned reflecting member. 3,436,758, 4-1-69, Cl. 340-376.
Kluth, Lewis A.; Melville, Richard J.; and Thompson, Robert D., to Taylor Instrument Consumer Products, mesne. Thermometer. 3,465,590, 9-9-69, Cl. 73-356.
Kluth, Samuel. Pattern plates with provision for shift correction. 3,428,113, 2-18-69, Cl. 164-241.
Kluttz Machine & Foundry, Inc.: *See—*
Dalpiaz, Julius A., 3,438,226.
Kluver, Klaus H., to K. G. B. Enterprises (Proprietary) Limited. Gear shifting mechanism. 3,485,111, 12-23-69, Cl. 74-473.
Klyce, Thomas A.: *See—*
Davis, Benjamin I.; and Klyce, Thomas A.,3,482,417.
Klysa, John, Jr.; and Mc Cammon, William W., to Sperry Rand Corporation. Malfunction detection dircuit. 3,483,455, 12-9-69, Cl. 318-18.
Kmeco, Rudolf, to PAPCEL, strojirny pro prumysl celulosy a papiru narodni podnik. Pulping apparatus. 3,486,702, 12-30-69, Cl. 241-46.17
KMS Industrial, Inc.: *See—*
Compton, Asa B., 3,447,256.
KMS Industries, Inc.: *See—*
Compton, Asa B.; and Musig, Morris D., 3,453,773.
Dyer, James W.; Musig, Morris D.; and Compton, Asa B., 3,484,631.
Knab, James V., to Weber Showcase & Fixture Co. Cleanroom filtering method. 3,465,666, 9-9-69, Cl. 98-33.
Knacke, Ottmar, to Kernforschungsanlage Julich des Landes Nordrhein- Westfalen-e.V. Molten iron method of recovering nuclear material from composite bodies. 3,485,594, 12-23-69, Cl. 23-324.
Knag, A., A/S: *See—*
Bakke, Bjorn, 3,438,166.
Knaggs, Edward A.; and Fischer, Elias, to Stephan Chemical Company. Dry cleaning detergent composition. 3,433,746, 3-18-69, Cl. 252-153.
Knaggs, Edward A.; Nussbaum, Marvin L.; and Fischer, Elias, to Stephan Chemical Company. Dry cleaning detergent composition. 3,433,745, 3-18-69, Cl. 252-153.
Knaggs, Edward A.: *See—*
Harris, Robert M.; Knaggs, Edward A.; and Yeager, John A.,3,459,559.
Knapon, Arthur George; and Raine, Thomas, to Associated Electrical Industries Limited. Grain refinement process for copper-bismuth alloys. 3,450,573, 6-17-69, Cl. 148-2.
Knapp, Alphia E.: *See—*
Blenkarn, Kenneth A.; and Knapp, Alphia E.,3,436,920.
Knapp, Burton B.: *See—*
Di Bari, George A.; Sample, Clarence H.; and Knapp, Burton B.,3,449,224.
Renzoni, Louis S.; Di Bari, George Angelo; Knapp, Burton B.; and Carlin, Francis X.,3,437,571.
Knapp Design Associates, Inc.: *See—*
Knapp, James G., 3,457,389.
Knapp, Donald P., to Motorola, Inc. Phonograph cabinet. 3,446,506, 5-27-69, Cl. 274-2.
Knapp Edward M.; and Ellis, Weldon T., Jr. Pyrolysis of coal with microwave energy. 3,449,213, 6-10-69, Cl. 201-19.
Knapp, Edward M.; and Nesbitt, Stephen J. Apparatus for purifying fuel oil. 3,442,625, 5-6-69, Cl. 23-284.
Knapp, Emil P., to Lear Siegler, Inc., mesne. Maximum allowable airspeed pointer. 3,435,675, 4-1-69, Cl. 73-182.
Knapp, Emil P., to Lear Siegler, Inc. Compensating means for synchro output for barometrically actuated systems. 3,478,593, 11-18-69, Cl. 73-387.
Knapp, Emil, to Siegler, Lear, Inc., mesne. Airspeed warning device. 3,440,601, 4-22-69, Cl. 340-27.
Knapp, Eugene J., to Corning Glass Works. Reduction of cooling cycles through rapid decompression of heated beads. 3,452,124, 6-24-69, Cl. 264-53.
Knapp, Frank T., to United States Envelope Company. Blank shingling mechanism for envelope forming machine. 3,479,025, 11-18-69, Cl. 271-2.
Knapp, George F. Room cooling system. 3,459,257, 8-5-69, Cl. 165-3.
Knapp, Gordon G., to Ethyl Corporation. 3,5 dialkyl-4-hydroxythiobenzamides. 3,474,094, 10-21-69, Cl. 260-247.1
Knapp, Gordon G.; and Kleiman, Joseph P., to Ethyl Corporation. Fuel oil composition. 3,458,296, 7-29-69, Cl. 44-66.
Knapp, Heinrich, to VEB Transportgummi. Heat and corrosion resistant hose coupling for supplying fuel, oil and the like. 3,467,764, 9-16-69, Cl. 174-74.
Knapp, Helmut. Control device for a single-lens reflex camera. 3,468,232, 9-23-69, Cl. 95-42.
Knapp, James G., to Knapp Design Associates, Inc. Heater for towels. 3,457,389, 7-22-69, Cl. 219-448.
Knapp, Karl-Heinrich: *See—*
Ott, Karl-Heinz; Knapp, Karl-Heinrich; Dinges, Karl; and Roehr, Harry,3,442,979.
Knapp, Kenneth W.; McCarthy, Michael J.; and Darbee, Leonard R., to FMC Corporation. Effervescent compounds and process for producing same. 3,441,388, 4-29-69, Cl. 23-315.
Knapp, Kenneth W.; and Thompson, John S., to FMC Corporation. Dishwashing compositions. 3,468,803, 9-23-69, Cl. 252-106.
Knapp, Mary M.: *See—*
Girard, Harry J., 3,460,180.
Knapp, Peter; and Wallstein, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Load controlled oscillatory circuit inverter. 3,462,672, 8-19-69, Cl. 321-43.
Knapp, Phillip M.; and Wright, Paul E., to AAI Corporation. Hit indicator system with barrel-bore mounted photoscope. 3,483,636, 12-16-69, Cl. 35-25.
Knapp, Richard A., to Carson Laboratories, Inc. Color center information storage and retrieval system. 3,440,621, 4-22-69, Cl. 340-173.
Knapp, Robert L.: *See—*
Barecki, Chester J.; and Knapp, Robert L.,3,486,790.
Knapp, Robert S., to Knapp-Monarch Company. Broiler with removable heating cartridge. 3,433,930, 3-18-69, Cl. 219-386.
Knapp, Theodore F., to Dura Corporation, mesne, a wholly-owned subsidiary of Kidde, Walter, & Company, Inc. Motor with multiplex wave wound disc armature. 3,480,815, 11-25-69, Cl. 310-268.
Knapp, Walter E.: *See—*
Wright, Merrill W.; and Knapp, Walter E.,3,476,238.
Knapp, Wilhelm: *See—*
Bender, Alfred; and Knapp, Wilhelm,3,478,847.

Knapp, Wilhelm, to Teves, Alfred, G.m.b.H. Hydrodynamic and hydraulic brake system for heavy-duty motor vehicles. 3,423,134, 1-21k69, Cl. 303-2.
Knapp, Wilhelm, to Teves, Alfred GmbH. Liquid cooled hydrodynamic brake system for motor vehicles. 3,451,511, 6-24-69, Cl. 188-90.
Knapp, Wilhelm, to Teves, Alfred, G.m.b.H. Magnetic brake shoe securing means. 3,476,217, 11-4-69, Cl. 188-73.
Knapp, Wilhelm; and Schlor, Karl, to Teves, Alfred, G.m.b.H. Hydrodynamic brake for automotive vehicles. 3,482,659, 12-9-69, Cl. 188-90.
Knapp, William A., Jr., to Norden Laboratories, Inc. Method of treating an animal having demodectic mange. 3,422,182, 1-14-69, Cl. 424-10.
Knapp, William E.: *See*—
Bolkcom, Wilbur T.; and Knapp, William E.,3,432,605.
Knapp, William H.: *See*—
De Pauw, Richard A.; and Knapp, William H.,3,479,804.
De Pauw, Richard A.; and Knapp, William H.,3,482,577.
Knapp, William H.; and De Pauw, Richard A., to International Harvester Company. Accessible concave. 3,470,881, 10-7-69, Cl. 130-27.
Knapp, William H.; Gochanour, Caroll Q.; and De Pauw, Richard A., to International Harvester Company. End feeding arrangement. 3,464,419, 9-2-69, Cl. 130-27.
Knapp-Monarch Company: *See*—
Huck, Alfred J.; and Ketterer, Charles W., 3,452,670.
Knapp, Robert S., 3,433,930.
Stone, Forrest W., 3,454,745.
Knappstein, Johannes; and Thiersch, Friedrich, to Still, Carl, Firma. Inclined rotary furnace. 3,461,037, 8-12-69, Cl. 202-131.
Knapsack Aktiengesellschaft: *See*—
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut, 3,435,083.
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut, 3,445,359.
Bender, Ludwig; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl, 3,455,811.
Brockmuller, Wolfgang; Hartlapp, Gerhard; and Weizenkorn, Horst-Heinrich, 3,433,585.
Feldmann, Klaus; Frank, Klaus; Gerhardt, Wilfried; Schmidt, Paul; and Kandler, Joachim, 3,471,595.
Gabler, Hellmut; and Mietens, Gerhard, 3,484,282.
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich, 3,433,586.
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich, 3,464,786.
Hartlapp, Gerhard; Kowalski, Werner; and Klee, Helmut, 3,449,068.
Heymer, Gero; Harnisch, Heinz; Hartlapp, Gerhard; and Traulsen, Karl, 3,438,725.
Kern, Winfried; and Heymer, Gero, 3,432,260.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter, 3,476,955.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter, 3,484,493.
Mehne, Arthur; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl, 3,455,798.
Querengasser, Hugo; Krause, Johannes; Frank, Klaus; and Cziska, Johann, 3,431,103.
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; and Joest, Herbert, 3,432,544.
Sennewald, Kurt; Vogt, Wilhelm; and Glaser, Hermann, 3,441,601.
Sennewald, Kurt; Rehberg, Heinrich; and Lenz, Gunter, 3,442,937.
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert, 3,465,053.
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert, 3,465,054.
Sennewald, Kurt; Erpenbach, Heinz; Rehberg, Heinrich; and Viertel, Gunter, 3,476,776.
Sennewald, Kurt; and Rehberg, Heinrich, 3,483,222.
Vogt, Wilhelm; and Glaser, Hermann, 3,476,799.
Knapsack-Grieshum Aktiengesellschaft: *See*—
Gabler, Hellmut; Gerhardt, Wilfried; and Kandler, Joachim, 3,454,498.
Knarr, Warren Alfred: *See*—
Hunter, Edward Allen; Knarr, Warren Alfred; and Byars, Gerald Albert,3,423,323.
Long, Robert B.; and Knarr, Warren Alfred,3,437,712.
Knaub, Edgar W., to General Electric Company. Curable compositions. 3,441,534, 4-29-69, Cl. 260-37.
Knauber, Ronald L.; and Evel, Eddie A., to Martin-Marietta Corporation. Differential amplifier. 3,449,687, 6-10-69, Cl. 330-30.
Knauer, Wolfgang: *See*—
Gallagher, Hayden E.; and Knauer, Wolfgang,3,439,210.
Knauert, William F.; and Molloy, Martin, to Sonotone Corporation. Acoustic frequency response adjustment. 3,439,129, 4-15-69, Cl. 179-107.
Knauf, Jack William, to United States of America, Interior. Stereo-image alternator system. 3,464,766, 9-2-69, Cl. 353-6.
Knaul, Sigmund: *See*—
Bennett, Bernard, 3,485,068.
Pilvet, Aksel, 3,485,069.
Pilvet, Aksel, 3,486,353.
Knaur, Wolfgang; and Gallagher, Hayden E., to Hughes Aircraft Company. Thermionic cathode having emissive material and metallic paths which sputter away at the same rate. 3,421,039, 1-7-69, Cl. 313-339.
Knaus, Oleg Mikchailovich. Preaeration and flotation of mineral particles. 3,434,596, 3-25-69, Cl. 209-184.
Knebel, Robert W.: *See*—
Pandell, Nestor W.; and Knebel, Robert W.,3,430,480.
Troope, Walter S.; and Knebel, Robert W.,3,473,877.
Knecht, Bernath J.: *See*—
Knecht, Bernath L.; and Knecht, Bernath J.,3,428,102.
Knecht, Bernath L.; and Knecht, Bernath J., to Worthington Foods, Inc. Slicing machine with slice arranger. 3,428,102, 2-18-69, Cl. 146-101.
Knecht, Eugene C.: *See*—
Willis, Thomas G.; and Knecht, Eugene C.,3,440,370.
Knecht, George W.: *See*—
Norden, Alexander R.; and Knecht, George W.,3,467,799.
Knecht, George W., to Murray Manufacturing Company. Magnetic trip latching system for circuit breakers. 3,432,781, 3-11-69, Cl. 335-172.
Knecht, Ludwig; and Hebling, Friedrich, to Maschinenfabrik Augsburg-Nurnberg A.G. Tanning apparatus. 3,457,743, 7-29-69, Cl. 69-30.
Knecht, William A.: *See*—
Ouellette, Chester V.; and Knecht, William A.,3,435,392.
Knechtel, Eral D.; and Pitts, William C., to United States of America, National Aeronautics and Space Administration. Two-force-component measuring device. 3,425,272, 2-4-69, Cl. 73-142.
Knechtel, Wilhelm. Powder dispensing cylinder for an electrostatic powder fixing device. 3,464,383, 9-2-69, Cl. 118-637.
Knechtli, Ronald C., to Hughes Aircraft Company. Electron injection plasma variable reactance device with perforated anode in the electron path. 3,439,225, 4-15-69, Cl. 315-39.
Knechtli, Ronald C.; and Wada, Yasuo, to Hughes Aircraft Company. Electron injection plasma variable reactance device. 3,439,224, 4-15-69, Cl. 315-39.
Knechtli, Ronald C.: *See*—
Forman, Barry J.; Knechtli, Ronald C.; and Wada, Yasuo,3,439,297.
Kneib, Jan A., to Du Pont de Nemours, E. I., and Company. Filament feed interrupter. 3,456,857, 7-22-69, Cl. 226-25.
Kneier, Joseph W.: *See*—
Perkins, George D.; Workman, David E.; and Kneier, Joseph W.,3,437,389.
Kneisel, Otto; and Honold, Horst, to Siemens Aktiengesellschaft. Time multiplex communication system with provision for priority assignment of waiting calls. 3,475,560, 10-28-69, Cl. 179-15.
Kneisley Electric Company, The: *See*—
Kneisley, Richard F.; and Kneisley, Thomas R., 3,436,595.
Kneisley, Richard F., 3,450,860.
Kneisley, Richard F., to Kneisley Electric Company, The. Liquid heater with high temperature safety control. 3,450,860, 6-17-69, Cl. 219-331.
Kneisley, Richard F.; and Kneisley, Thomas R., to Kneisley Electric Company, The. Illuminating lamp power supply. 3,436,595, 4-1-69, Cl. 315-165.
Kneisley, Thomas R.: *See*—
Kneisley, Richard F.; and Kneisley, Thomas R.,3,436,595.
Knell, Martin, to Geigy Chemical Corporation. Process for the preparation of carbonyl compounds containing a hindered phenol group. 3,455,994, 7-15-69, Cl. 260-473.
Knell, Martin, to Geigy Chemical Corporation. N-perfluoroalkanoylamino-and N- perfluoroalkanoylaminoalkyl acrylamides. 3,475,434, 10-28-69, Cl. 260-268.
Knemeyer, Siegfried. System for stabilizing the collective control of a helicopter or the corresponding control of other VTOL aircraft. 3,482,805, 12-9-69, Cl. 244-77.
Knepper, Jay C., Jr.: *See*—
Harvey, Wildon T.; and Knepper, Jay C., Jr.,3,467,547.
Knerr, Carl J.; Silva, William C.; and Hartley, Curtis R., to Fedders Corporation, mesne. Fluid control device for automatic laundry machines. 3,425,437, 2-4-69, Cl. 137-119.
Knerr, Reinhard H., to Bell Telephone Laboratories, Incorporated. Waveguide-stripline transducer. 3,462,713, 8-19-69, Cl. 333-21.
Knerr, William R. Arrow propelling weapon. 3,455,288, 7-15-69, Cl. 124-22.
Kneschke, Gotz: *See*—
Schrader, Richard; Grunwoldt, Wilfried; Hennek, Hubert; Kneschke, Gotz; and Reinhardt, Helmut,3,464,790.
Kneubuehl, Herman J. Poultry water cup and valve. 3,483,847, 12-16-69, Cl. 119-75.
Knglsey, Jack D.; and Prener, Jerome S., to General Electric Company. Coherent light source utilizing pentavalent manganese activated calcium chlorophosphate crystal. 3,432,769, 3-11-69, Cl. 331-94.5

Knibiehly, Earle M., to Logetronics, Inc. Drier for film processors. 3,434,225, 325-69, Cl. 34-160.
Knibiehly, Earle M., to Logetronics, Inc. Film processing apparatus. 3,463,073, 8-26-69, Cl. 95-94.
Knicely, David R.: *See*—
Mark, Alexander H.; and Knicely, David R.,3,431,713.
Knickerbocker, Eugene D. Tool for pulling bearings. 3,447,228, 6-3-69, Cl. 29-267.
Knickerbocker, Karl. Coin controlled vending mechanism utilizing a plurality of coins of different denominations. 3,464,530, 9-2-69, Cl. 194-71.
Kniel, Ludwig, to Lummus Company, The. Utilization of propane recovered from liquefied natural gas. 3,456,032, 7-15-69, Cl. 260-683.
Knieriem, Herman, Jr., to Dow Chemical Company, The. Method for dry cleaning. 3,482,928, 12-9-69, Cl. 8-137.
Kniese, Fritz, to Industrie-Werke Karlsruhe Aktiengesellschaft. Method and device for conveying goods to and from a vacuum or pressure container. 3,421,229, 1-14-69, Cl. 34-92.
Knigge, Marinus Gijsbertus: *See*—
van der Wijngaart, Bernardus Antonius Carolus; Quirijnen, Marius; and Knigge, Marinus Gijsbertus,3,477,787.
Knight, Alton D.; and Eddins, Ezra C. Vapor charging system for internal combustion engines. 3,450,116, 6-17-69, Cl. 123-119.
Knight, Basil Edward, to C.A.V. Limited. Gas purification apparatus. 3,439,476, 4-22-69, Cl. 55-120.
Knight, Basil Edward; and Shufflebotham, David, to C.A.V. Limited. Liquid fuel supply systems. 3,456,884, 7-22-69, Cl. 239-533.
Knight, Billy F., to Gainesville Machine Company. Biscera remover. 3,451,097, 6-24-69, Cl. 17-11.
Knight, Charles W.: *See*—
Smith, Courtland N., Jr.; and Knight, Charles W.,3,445,286.
Knight, Colin Sutherland; Reimer, Alexander Claude; Weaver, Victor Charles; and Brook, Brian Neville, to Balston , W. & R., Limited. Cellulose derivatives. 3,446,794, 5-27-69, Cl. 260-212.
Knight, David John: *See*—
Gibbons, Peter Frederick; Knight, David John; Neal, Brian Patrick; and Parbery, Cyril John,3,456,988.
Knight, Douglas Frank, to Avery, W. & T., Limited. Transducer excitation circuits. 3,477,017, 11-4-69, Cl. 323-51.
Knight, Ernest O., to Union Carbide Corporation. Powder metallurgical process for producing low carbon ferrochromium. 3,459,542, 8-5-69, Cl. 75-130.5
Knight, Floyd M., to FMC Corporation. Carton aligning and erecting mechanism. 3,443,487, 5-13-69, Cl. 93-53.
Knight, Frank W., Jr.: *See*—
Brandt, Edison R.; and Knight, Frank W., Jr.,3,421,425.
Knight, Geoffrey Peter, to Ever Ready Company (Great Britain) Limited, The. Round cells and batteries made therefrom. 3,420,714, 1-7-69, Cl. 136-107.
Knight, Geoffrey Peter, to Ever Ready Company (Great Britain) Limited, The. Method of making an encapsulated dry battery. 3,449,171, 6-10-69, Cl. 136-175.
Knight, George Raymond, Jr.: *See*—
Bridges, Thomas Fort; Knight, George Raymond, Jr.; and Penney, Norman Withers,3,420,396.
Rydberg, Clarence R.; and Knight, George,3,457,856.
Knight, Gordon R.: *See*—
Wilson, Dennis L.; and Knight, Gordon R.,3,453,626.
Knight, Herbert G., Jr., to Hercules Incorporated. Aqueous inorganic oxidizer salt explosives and acrylamide polymers as thickener therefor. 3,442,729, 5-6-69, Cl. 149-60.
Knight, Homer A., to Westinghouse Air Brake Company. Combined check valve and choke valve device. 3,486,527, 12-30-69, Cl. 137-513.3
Knight, John R.; and Leworthy, John, to British Aircraft Corporation (Operating) Limited. Lightning conductors in aircraft. 3,428,270, 2-18-69, Cl. 244-1.
Knight, John V.; and Jones, Frederick E. Razor blade tool device. 3,462,836, 8-26-69, Cl. 30-331.
Knight, Mark Berwyn, to RCA Corporation. Television scanning and power supply system. 3,450,936, 6-17-69, Cl. 315-27.
Knight, Mark Berwyn, to RCA Corporation. Phase comparison circuit. 3,456,075, 7-15-69, Cl. 178-7.3
Knight, Milton A. Electrohydrodynamic alternating current generator. 3,440,458, 4-22-69, Cl. 310-11.
Knight, Milton A. Battery with multi-layer electrodes. 3,484,290, 12-16-69, Cl. 136-6.
Knight, Peter Michael, to Elliott Brothers(London)Limited. Quadrature rejection circuit employing two switching circuits connected in parallel across input terminals. 3,450,899, 6-17-69, Cl. 307-232.
Knight, Richard B. D. Rebalance voltage measuring apparatus employing an A. C. potentiometer. 3,443,226, 5-6-69, Cl. 324-99.
Knight, Richard E.: *See*—
Nebiker, Fred R.; Aebischer, Albert C.; and Knight, Richard E.,3,482,783.
Knight, Robert C., to Marathon Oil Company. Removal of highly viscous crude petroleum from well bores. 3,455,394, 7-15-69, Cl. 166-316.
Knight, Robert D.; and Nepela, Daniel A., to International Business Machines Corporation. Laminar flow film developing apparatus. 3,427,949, 2-18-69, Cl. 95-89.
Knight, Robert L. Adjustable angle drawing guide. 3,436,833, 4-8-69, Cl. 33-99.
Knight, Sanford: *See*—
Leibowitz, Martin L.; and Knight, Sanford,3,458,032.
Knightly, William H., to Atlas Chemical Industries, Inc. Softener and mold inhibitor for baked products. 3,485,639, 12-23-69, Cl. 99-91.
Knights, Peter Brian: *See*—
Evans, Reginald David; and Knights, Peter Brian,3,422,682.
Knights, Richard Northam, to Dunlop Company Limited, The. Automatic adjusting device for use in brakes. 3,467,228, 9-16-69, Cl. 188-196.
Knipp, Ulrich; and Weinbrenner, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Injection-molded, reinforced pneumatic tires and method of making same. 3,458,373, 7-29-69, Cl. 156-125.
Knipp, Ulrich: *See*—
Weinbrenner, Erwin; and Knipp, Ulrich,3,472,715.
Knipper, Francis E. Window frame assembly. 3,465,485, 9-9-69, Cl. 52-204.
Knipple, Raymond P.: *See*—
Kay, Daniel J.; and Knipple, Raymond P.,3,446,783.
Knipple, Warren R.: *See*—
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R.,3,431,292.
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R.,3,445,521.
Knipstrom, Karl-Erik: *See*—
Christensen, Frede; Henningsen, Christian Johannes; Larsson, Bernt Arne Rudolf; Knipstrom, Karl-Erik; and Skarpengland, Bjorn Frost,3,427,527.
Knisley, Bill C.: *See*—
Pugh, Donald J.; and Knisley, Bill C.,3,441,768.
Knitting Machinery Corp. of America: *See*—
Faigenbaum, Roy D.; and Greczen, John, 3,435,635.
Knittle, Gale L.: *See*—
Hutton, Gerald E.; Knittle, Gale L.; and Riley, Emmett E.,3,444,337.
Knittweis, Walter F. Bead cutter for gem settings. 3,435,513, 4-1-69, Cl. 29-567.
Knizia, Klaus, to Steinmuller, L. & C., G.m.b.H. Circuit for a regenerative preheating. 3,420,212, 1-7-69, Cl. 122-1.
Knizia, Klaus, to Steinmuller, L. & C., G.m.b.H. Cyclic process for steam power plants. 3,423,933, 1-28-69, Cl. 60-67.
Knizia, Klaus, to Steinmuller, L. & C., G.m.b.H. Steam producing plant and method of operating the same. 3,470,853, 10-7-69, Cl. 122-406.
Knobe-Dubs, Fritz, to Elektro-Apparatebau F. Knobel & Co. Automatic starter switch for preheating and ignition of fluorescent lamps having heated cathodes. 3,458,757, 7-29-69, Cl. 315-99.
Knoblauch, David E. Hydraulically controlled exercising a weight lifting device. 3,451,271, 6-24-69, Cl. 73-379.
Knobloch, James O.: *See*—
Stein, Norman; Meyer, Delbert H.; Knobloch, James O.; and Liao, Hsiang Peng,3,484,458.
Knobloch, Peter; Kuhn, Adalbert; Pfannenschmidt, Otto; and Schneider, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for continuously heating, drying and heat-setting tows of filaments of synthetic polymers. 3,435,534, 4-1-69, Cl. 34-1.
Knochel, William J.: *See*—
Grekila, Richard B.; Ho, Shih-Ming; Knochel, William J.; and Lin, Francis C. M.,3,469,729.
Knochel, William J.; and Fraser, Hugh D., to Westinghouse Electric Corporation. Ceramic discharge lamp. 3,461,334, 8-12-69, Cl. 313-198.
Knochel, William J.; and Lin, Francis C. M., to Westinghouse Electric Corporation. Sealing means for refractory ceramic discharge device envelopes. 3,450,924, 6-17-69, Cl. 313-220.
Knochel, William J.; Lin, Francis C. M.; and Fraser, Hugh D., to Westinghouse Electric Corporation. Ceramic arc tube and closure member construction. 3,422,300, 1-14-69, Cl. 313-220.
Knochel, William J.; Skwirut, Henry; and Lin, Francis C. M., to Westinghouse Electric Corporation. Sealing technique for producing glass to metal seals. 3,467,510, 9-16-69, Cl. 65-59.
Knodler, Dietheim: *See*—
Winkler, Franz; Knodler, Dietheim; and Huber, Gerald,3,453,178.
Knodler, Diethelm; and Jezussek, Alfons, to Siemens Aktiengesellschaft. Seal for enclosures subjected to high pressures and temperatures. 3,459,325, 8-5-69, Cl. 220-46.
Knoepfel, Heinz; and Herlach, Fritz, to European Atomic Energy Community (Euratom). Generator for currents in the order of mega- amperes through the use of explosives. 3,478,231, 11-11-69, Cl. 310-10.
Knoepfler, Nestor B.: *See*—
Fisher, Charles H.; Knoepfler, Nestor B.; Kingsbery, Emery C.; Cheatham, Robert J.; and Vix, Henry L. E.,3,483,570.

Knoester, Carel Jacobus: *See—*
Hectors, Adrianus Marie Petrus; Huibers, Bernardus Hubertus; and Knoester, Carel Jacobus,3,442,652.
Knohl, Herbert, to Kendall Company, The. Protuberance covering tubular elastic garments. 3,425,246, 2-4-69, Cl. 66-171.
Knohl, Herbert, to Kendall Company, The. Circular-knit elastic foot garment with non binding instep. 3,443,404, 5-13-69, Cl. 66-178.
Knohl, Herbert, to Kendall Company, The. Two-way stretch garment incorporating inlaid elastomeric yarn. 3,461,695, 8-19-69, Cl. 66-178.
Knohl, Herbert; and Hoey, Raymond M., to Kendall Company, The. Toe inspection foot garment. 3,453,843, 7-8-69, Cl. 66-185.
Knoll A.-G.: *See—*
Kallischnigg, Rolf; and Biekert, Ernst, 3,440,278.
Knoll, Arnulf: *See—*
Lindner, Edmund; and Knoll, Arnulf,3,468,482.
Knoll, Ernst. Method for the manufacture of molded composite relief sheets. 3,458,614, 7-29-69, Cl. 264-132.
Knoll, Jozsef: *See—*
Ecsery, Zoltan; Knoll, Jozsef; Kosa, Ildiko; Sandor, Ildiko; Somfai, Eva; and Torok, Sandor,3,485,874.
Knonaas, Manley: *See—*
Chao, Tai S.; Matson, Howard J.; and Knonaas, Manley,3,436,348.
Knop, Louis H.: *See—*
Doherty, Alfred E., Jr.; and Knop, Louis H.,3,432,912.
Knopf, Frank A.: *See—*
Fujitsubo, William S.; and Knopf, Frank A.,3,470,730.
Knopf, Robert J.: *See—*
Brotherton, Thomas K.; Knopf, Robert J.; Starcher, Paul S.; and Noffsinger, Charles A.,3,470,248.
Cox, Eugene F.; and Knopf, Robert J.,3,436,373.
Knopf, Robert J., to Union Carbide Corporation. Hexachlorobutadiene polyol compounds. 3,449,320, 6-10-69, Cl. 260-209.
Kuryla, William C.; and Knopf, Robert J.,3,467,607.
Knopfle, Walter: *See—*
Nanz, Ernst; Hagenah, Hans-Gerhard; and Knopfle, Walter,3,425,703.
Knopp, Adalbert: *See—*
Nowalk, Thomas P.; and Knopp, Adalbert,3,475,235.
Knopp, Walter V., to Olin Mathieson Chemical Corporation. Fabrication of spherical powders. 3,434,831, 3-25-69, Cl. 75-211.
Knorr, Fritz: *See—*
Kunstle, Gerhard; Heckmaier, Joseph; Knorr, Fritz; and Siegl, Herbert,3,474,138.
Knorr, Gustave A., Jr., to Westinghouse Electric Corporation. Pincushion correction circuits. 3,452,243, 6-24-69, Cl. 315-24.
Knorr, Gustave A., Jr.; and Young, Jing-Jue, to Westinghouse Electric Corporation. Dial illumination circuitry. 3,427,503, 2-11-69, Cl. 315-324.
Knorr, Peter, to Goldschmidt, A.G., The. Apparatus for oxidizing lead. 3,450,503, 6-17-69, Cl. 23-277.
Knorr, Pieter, to Ford Motor Company. Secondary battery. 3,475,220, 10-28-69, Cl. 136-6.
Knorr, Rex B., to Steelco Engineering Co. Form clamp for square columns. 3,475,017, 10-28-69, Cl. 269-124.
Knorr-Bremse GmbH: *See—*
Bruhn, Wilhelm; and Pollinger, Hans, 3,482,662.
Fux, Erich, 3,482,275.
Meir, Franz, 3,480,838.
Pollinger, Hans; and Wosegien, Bernd, 3,425,752.
Knorre, Helmut; Bretschneider, Gunther; and Sauer, Heinrich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of alkali metal borohydrides. 3,433,605, 3-18-69, Cl. 23-361.
Knorre, Helmut; and Rothe, Wilfried, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of organic silicon compounds. 3,470,225, 9-30-69, Cl. 260-448.2
Knospe, Robert H., to Du Pont de Nemours, E. I., and Company. Mixed shrinkage yarn. 3,481,133, 12-2-69, Cl. 57-140.
Knoth, Walter H., Jr., to Du Pont de Nemours, E. I., and Company. Transition metal complexes of $(B_{10}H_{11}CNH_2)^{-2}$, $(B_{10}H_{11}COH)^{-3}$ and derivatives thereof. 3,424,773, 1-28-69, Cl. 260-429.
Knoth, Walter H., Jr., to Du Pont de Nemours E. I., and Company. Diazonium compounds of the decaborate cage radical. 3,427,136, 2-11-69, Cl. 23-356.
Knoth, Walter H., Jr., to Du Pont de Nemours, E. I., and Company. Hydrazinium salts of tetradecahydroundecaborates. 3,472,636, 10-14-69, Cl. 23-358.
Knoth, Walter H., Jr., to Du Pont de Nemours, E. I., and Company. Acids and salts of B_9H_9 CH. and $B_{11}H_{11}CH$. and processes for preparing them. 3,478,098, 11-11-69, Cl. 260-567.6
Knoth, Walter H., Jr., to Du Pont de Nemours, E. I., and Company. Compound, NH_2 CB_{10} H_{12}, its derivatives, and their methods of preparation. 3,481,696, 12-2-69, Cl. 23-59.
Knoth, Walter: *See—*
Gertsch, Georges-Albert; and Knoth, Walter,3,458,764.
Knoth, Walter; and Luscher, Werner, to Micafil A.G. Reflection-free voltage divider for high surge voltages. 3,431,493, 3-4-69, Cl. 324-126.
Knotik, Karl: *See—*
Bildstein, Hubert; Knotik, Karl; and Stolba, Gerhard,3,468,985.
Bildstein, Hubert; Stolba, Gerhard; and Knotik, Karl,3,424,564.
Knotik, Karl; Koss, Peter; and Markl, Heinz, to Osterreichische Studiengesellschaft fur Atomenergie Ges. m.b.H. Method for the production of spherical particles. 3,472,922, 10-14-69, Cl. 264-0.5
Knotik, Karl; Leichter, Peter; and Wagner, Harald, to Osterreichische Studiengesellschaft fur Atomenergie Ges. m.b.H. Process for disintegrating graphite bodies. 3,453,091, 7-1-69, Cl. 23-324.
Knott, Edward B; Mijovic, Miroslav V; and Saunders, David George, to Eastman Kodak Company. Photographic element. 3,434,837, 3-25-69, Cl. 96-74.
Knott, Ralph David; and Bergman, Gerald David, to North American Philips Company, Inc. Symmetrical switching controlled rectifier with non-overlapped emitters. 3,443,171, 5-6-69, Cl. 317-234.
Knott, Robert Franklin: *See—*
Kelly, Cornelius James Noel; and Knott, Robert Franklin,3,431,154.
Knotts, George F.; and Beyer, Herbert K., to Amerind Incorporated. Bulk storage, transport, mixing and delivery apparatus. 3,424,438, 1-28-69, Cl. 259-4.
Knotts, Halford L.: *See—*
George, Richard F.; and Knotts, Halford L.,3,455,616.
Knowlden, Robert E. Pressure differential type mixing device. 3,438,612, 4-15-69, Cl. 259-60.
Knowles, Alvis R., to Eldon Industries, Inc. Handle for electric soldering iron. 3,436,718, 4-1-69, Cl. 339-110.
Knowles, Coyle E., to Buffalo Turbine Agricultural Equipment Co., Inc. Portable sprayer. 3,448,926, 6-10-69, Cl. 239-77.
Knowles, Coyle E., to Buffalo Turbine Agricultural Equipment Co., Inc. Blower for pulverulent material. 3,449,016, 6-10-69, Cl. 302-36.
Knowles, Coyle E., to Buffalo Turbine Agricultural Equipment Co., Inc. Agricultural sprayer. 3,452,931, 7-1-69, Cl. 239-214.25
Knowles, Edward Rolland, to Sterling Extruder Corporation. Method of forming a flanged container. 3,470,281, 9-30-69, Cl. 264-94.
Knowles, Edwin C.: *See—*
Cole, Edward L.; Knowles, Edwin C.; and Sensel, Eugene E.,3,468,815.
Dadura, James G.; Knowles, Edwin C.; and McCoy, Frederic C.,3,422,017.
McCoy, Frederic C.; and Knowles, Edwin C.,3,472,600.
McCoy, Frederic C.; and Knowles, Edwin C.,3,480,551.
McCoy, Frederic C.; Knowles, Edwin C.; and Hess, Howard V.,3,441,369.
McLoy, Frederic C.; and Knowles, Edwin C.,3,439,011.
Knowles, James, to Ford Motor Company. Gas turbine smog control for internal combustion engine. 3,444,686, 5-20-69, Cl. 60-11.
Knowles, John Anthony, to Lucas, Joseph, (Industries) Limited. Solenoids. 3,477,048, 11-4-69, Cl. 335-259.
Knowles, Robert G., to Litton Systems, Inc. Mounting of electronic components on baseboard or panel. 3,475,657, 10-28-69, Cl. 317-101.
Knowles, Squire, to Unitrak Corporation. Signboard with removable characters and panels. 3,470,640, 10-7-69, Cl. 40-140.
Knowles, Terence J., to Zenith Radio Corporation. Controlled signal amplifying system. 3,454,892, 7-8-69, Cl. 330-29.
Knowlton, Edward A., to United-Carr Incorporated, mesne. Washer-nut combination having a frangible connecting element. 3,425,473, 2-4-69, Cl. 151-38.
Knowlton, M. D., Company: *See—*
Schaap, Wayne M., 3,427,909.
Knox, Anne A.: *See—*
Knox, Lawrence H.,3,444,188.
Knox, Lawrence H.,3,457,284.
Knox, Lawrence H.,3,467,713.
Knox, Austin A., to Medical Data Services, Inc. Tape recorder/reproducer. 3,445,116, 5-20-69, Cl. 274-4.
Knox, Austin A. Continuous loop recording tape cartridge. 3,468,490, 9-23-69, Cl. 242-55.19
Knox, David R., to Bundy Corporation. Method of making tubing and product thereof. 3,434,503, 3-25-69, Cl. 138-171.
Knox, Donald George. Information, storage and retrieval device. 3,436,745, 4-1-69, Cl. 340-174.
Knox, Francis P., to Redington Counters, Inc. Counter with novel drive mechanism. 3,421,690, 1-14-69, Cl. 235-117.
Knox, Jack R.; and Teumer, Karl-Heinz, to Continental Can Company, Inc. Condensation of monomer and low n-mer vapors to increase polymerization rates in a corona discharge. 3,421,930, 1-14-69, Cl. 117-93.1
Knox, Jack R.; and Teumer, Karl-Heinz, to Continental Can Company, Inc. Condensation of monomer vapors to increase polymerization rates in a glow discharge. 3,475,307, 10-28-69, Cl. 204-168.
Knox, John C. Internal coiling machine. 3,424,399, 1-28-69, Cl. 242-83.
Knox, Kenneth William: *See—*
Work, Elizabeth; and Knox, Kenneth William,3,438,861.
Work, Elizabeth; and Knox, Kenneth William,3,438,865.

Knox, Lawrence H., deceased0 (by Knox, Anne A.; legal representative), to Syntex Corporation. 7-Fluoro-B-homo steroids and their preparation. 3,444,188, 5-13-69, Cl. 260-488.
Knox, Lawrence H., deceased0 (by Knox, Anne A.; legal representative), to Syntex Corporation. 5β,6β-Methylene steroids. 3,457,284, 7-22-69, Cl. 260-397.3
Knox, Lawrence H., deceased0 (by Knox, Anne A.; legal representative), to Syntex Corporation. Process for the defluorination of fluorosteroids. 3,467,713, 9-16-69, Cl. 260-586.
Knox, Lawrence H.: *See—*
Edwards, John A.; and Knox, Lawrence H.,3,435,056.
Knox, Philander C., III. Fluid driven elevating amusement device. 3,436,074, 4-1-69, Cl. 272-7.
Knox, Rodney Lee: *See—*
Wakeman, Alden Harvey; Roahen, Dan Crabill; and Knox, Rodney Lee,3,465,439.
Knox, William J., Jr., to Eastman Kodak Company. Gelatin coating compositions containing a mixture of an acetylenic ethylene oxide derivative and an anionic surface active agent. 3,437,485, 4-8-69, Cl. 96-94.
Knox-Seith, John K.: *See—*
Fralick, Stanley C.; Knox-Seith, John K.; and Wilson, Dennis L.,3,484,746.
Knoy, Tyrus R. Ski boot snap fasteners. 3,430,298, 3-4-69, Cl. 24-69.
Knudsen, John P.: *See—*
Fitzgerald, Warren E.; and Knudsen, John P.,3,447,998.
Knudsen, Lawrence B.; and Munjee, Aman D., to National Lead Company. Mixing device. 3,423,075. 1-21-69, Cl. 259-8.
Knudson, Lester O. Cutlery dressing tool. 3,445,931, 5-27-69, Cl. 30-287.
Knupfer, Hans: *See—*
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang,3,422,113.
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang,3,446,805.
Wirth, Wolf-Dieter; Knupfer, Hans; Schellhammer, Carl-Wolfgang; Schonol, Karl; and Scholermann, Walter,3,420,835.
Knuppel, William F., to Hydrahone Equipment Division, John Mohr & Sons. Bag closing apparatus. 3,430,320, 3-4-69, Cl. 29-33.5
Knusli, Enrico; and Rumpf, Jurg, to Geigy, J. R., A.G. Diaminotriazine derivatives. 3,429,881, 2-25-69, Cl. 260-249.8
Knute, Wallace L.: *See—*
Nather, Roy E.; and Knute, Wallace L.,3,470,365.
Knuth, Detlef: *See—*
Koppelmann, Floris; Hausler, Michael; and Knuth, Detlef,3,450,983.
Knuth, Donald E.: *See—*
Hynes, Donald P.; and Knuth, Donald E.,3,454,929.
Packard, Roger E.; and Knuth, Donald E.,3,422,405.
Knutsen, Morris N., Jr. Rotary brailer. 3,455,048, 7-15-69, Cl. 43-6.5
Knutson, Carroll F., to Continental Oil Company. Method for determining the stress anisotropy in a horizontal plane. 3,440,875, 4-29-69, Cl. 73-151.
Knutson, Carroll F., to Continental Oil Company. Method of sealing underground cavities. 3,468,129, 9-23-69, Cl. 61-0.5
Knutson, David, to Hooker Chemical Corporation. Halogenated spiro compounds. 3,422,158, 1-14-69, Cl. 260-648.
Knutson, John W.: *See—*
Booth, William M.; Doornbos, George H.; Rander, Robert H.; and Knutson, John W.,3,445,038.
Knutson, Oliver J., to Kaman Sciences Corporation, mesne. Method of making a flat top coil. 3,460,247, 8-12-69, Cl. 29-605.
Knutson, Roy G. Rate gyro position follow-up. 3,481,207, 12-2-69, Cl. 74-5.6
Ko, Hon-Yim: *See—*
Scott, Ronald F.; and Ko, Hon-Yim,3,423,995.
Scott, Ronald F.; Ko, Hon-Yim; and Auksmann, Boris,3,423,994.
Ko, Wen H., to United States of America, Health, Education, and Welfare. Piezoelectric energy converter for electronic implants. 3,456,134, 7-15-69, Cl. 310-8.5
Kobara, Kiyoshi, to Nippon Electric Company, Limited. Telephone receiver with band elimination characeristic. 3,452,164, 6-24-69, Cl. 179-115.
Kobashi, Uichiro: *See—*
Fujita, Saburo; and Kobashi, Uichiro,3,430,743.
Fujita, Saburo; and Kobashi, Uichiro,3,463,282.
Kobashi, Uichiro, to Aisin Seiki Kabushiki Kaisha. Fan apparatus for cooling engine. 3,443,744, 5-13-69, Cl. 230-270.
Toyoda, Minoru; and Kobashi, Uichiro,3,482,552.
Kobata, Mikio: *See—*
Fukui, Kenichi; Kagiya, Tsutomu; Narisawa, Shizuo; Maeda, Taneo; and Kobata, Mikio,3,476,712.
Kobatake, Takashi: *See—*
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; Ikeda, Takeshi; Nakajima, Eizo; and Kobatake, Takashi,3,452,129.
Kobayakawa, Takaharu, to Toyo Kogyo Kabushiki Kaisha. Exhaust device for rotary piston engine. 3,448,727, 6-10-69, Cl. 123-8.
Kobayash, Takuro: *See—*
Tezuka, Keizo; and Kobayash, Takuro,3,458,685.
Kobayashi, Haruhiro; and Oikado, Taizo, to Nippon Electric Company, Limited. Optical maser. 3,478,279, 11-11-69, Cl. 331-94.5
Kobayashi, Harumi; and Sakuta, Toru, to Sunstar Dentifrice Company Limited. Dispensing tube assembly. 3,448,896, 6-10-69, Cl. 222-92.
Kobayashi, Hideaki: *See—*
Hayashi, Shigeki; Shinomiya, Hiroaki; and Kobayashi, Hideaki,3,482,535.
Hayashi, Shigeki; Sibuya, Tuyosi; Kobayashi, Hideaki; and Takarai, Yutaka,3,482,538.
Kobayashi, Hidehiko; Ohama, Hiroshi; and Saito, Shizuko, to Asahi Kasei Kogyo Kabushiki Kaisha. Novel copolymer. 3,433,773, 3-18-69, Cl. 260-78.5
Kobayashi, Hiroyuki: *See—*
Hayashi, Teruo; Sato, Katsuo; and Kobayashi, Hiroyuki,3,472,688.
Kobayashi, Hisamine. Beeline flow finishing method and apratus. 3,449,871, 6-17-69, Cl. 51-317.
Kobayashi, Kazuo; and Yamauchi, Michiaki, to NGK Insulators, Ltd. Method of production of active beryllium oxide powders. 3,431,073, 3-4-69, Cl. 23-183.
Kobayashi, Kazuo: *See—*
Shohji, Senji; Kobayashi, Kazuo; Kuwata, Masanobu; Watanabe, Yutaka; and Hirai, Tadamasa,3,474,301.
Kobayashi, Kazutsugu: *See—*
Igarashi, Yoshiaki; and Kobayashi, Kazutsugu,3,440,511.
Kobayashi, Kengo: *See—*
Shimizu, Kanryo; Yoshitake, Norito; and Kobayashi, Kengo,3,467,902.
Yoshitake, Norito; Hashimoto, Yoshihiro; and Kobayashi, Kengo,3,430,121.
Kobayashi, Koichi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Ultra-achromatic fluorite silica triplet lens system. 3,486,805, 12-30-69, Cl. 350-2.
Kobayashi, Masanaga, to Crown Radio Corporation. Control system for deactivating remote tape recorder in absence of audio modulated signal. 3,436,662, 4-1-69, Cl. 325-66.
Kobayashi, Saburo. Centrifugal torque converter. 3,420,345, 1-7-69, Cl. 192-103.
Kobayashi, Sadao: *See—*
Hayashi, Shigekazu; Kobayashi, Sadao; and Fujiwara, Shinobu,3,431,124.
Kobayashi, Seizaburo: *See—*
Yamada, Hirosuke; Shishido, Kyoji; Hoshino, Takao; Kobayashi, Seizaburo; and Sato, Isami,3,462,412.
Kobayashi, Shinsaku: *See—*
Iwai, Issei; Seki, Isao; Minakami, Haruhiko; Kobayashi, Shinsaku; Inada, Satoru; and Kumakura, Seiji,3,471,502.
Kobayashi, Shinzo; Onishi, Kumaichi; Kawakami, Akira; and Nakamura, Nobuhiro, to Mitsubishi Denki Kabushiki Kaisha. RADA receiver system. 3,482,049, 12-2-69, Cl. 179-15.
Kobayashi, Tadashi. Device for simultaneously making pulp, cleaning and screening paper. 3,474,972, 10-28-69, Cl. 241-61.
Kobayashi, Tadashi. Cylinder mold wherein the headbox is offset from the feed roll. 3,485,715, 12-23-69, Cl. 162-304.
Kobayashi, Takashi, to Yokohama Rubber Company, Limited, The. Semiradial pneumatic tires. 3,469,614, 9-30-69, Cl. 152-355.
Kobayashi, Takeji: *See—*
Wakai, Shuzo; and Kobayashi, Takeji,3,483,919.
Kobayashi, Tamotsu; and Asai, Isao, to Fischer & Porter Co. Millivolt-to-current converter. 3,483,476, 12-9-69, Cl. 330-10.
Kobayashi, Tatsuo, to Minolta Camera Kabushiki Kaisha. Light receiving apparatus for an exposure meter for a camera. 3,463,065, 8-26-69, Cl. 95-10.
Kobayashi, Tatsuo; and Imura, Toshinobu, to Minolta Camera Kabushiki Kaisha. Automatic diaphragm setting system for flash photography. 3,434,404, 3-25-69, Cl. 95-10.
Kobayashi, Teruo: *See—*
Imamiya, Hitoshi; Katayama, Shizuo; Matsukawa, Hiroharu; Kobayashi, Teruo; and Ishige, Sadao,3,463,655.
Kimura, Shiro; Ikeda, Teppei; Yamagishi, Kikuo; and Kobayashi, Teruo,3,475,173.
Kobayashi, Toshikazu: *See—*
Matuhasi, Tyoku; and Kobayashi, Toshikazu,3,457,344.
Kobayashi, Toshio: *See—*
Kawashima, Masao; Sakai, Masakatsu; and Kobayashi, Toshio,3,432,683.
Kobayashi, Toyoaki, to Aisin Seiki Kabushiki Kaisha. Hydraulic disc brake apparatus and multiple operators therefor. 3,476,220, 11-4-69, Cl. 188-106.
Kobayashi, Toyoaki: *See—*
Kawabe, Tsuneo; and Kobayashi, Toyoaki,3,424,281.
Kobayashi, Tsuneo; Tatematsu, Kenzo; Yoshimura, Koichi; and Yamamoto, Yoshio, to Matsushita Electric Industrial Co., Ltd. Electric cleaner. 3,458,892, 8-5-69, Cl. 15-327.
Kobayashi, Yoshichika; Masuda, Mutsuo; Mizuno, Hideo; and Murayama, Setsuko, to Matsushita Electronics Corporation. Process for preparing phosphors. 3,457,184, 7-22-69, Cl. 252-301.4

Kobayashi, Yoshichika; Masuda, Mutsuo; and Murayama, Setsuko, to Matsushita Electronics Corporation. Preparation of borax-fluxed, europium-activated rare earth oxide phosphors. 3,458,450, 7-29-69, Cl. 252-301.4
Kobayashi, Yoshichika; Masuda, Mutsuo; Murayama, Setuko; and Mizuno, Hideo, to Matsushita Electronics Corporation. Europium activated phosphors containing lithium floride and method for preparing the same. 3,458,451, 7-29-69, Cl. 252-301.4
Kobayashi, Yoshichika; Yakeno, Koji; and Takagawa, Masanori, to Matsushita Electronics Corporation. Photosensitive slurry and method of preparing the same. 3,461,077, 8-12-69, Cl. 252-301.3
Kobayashi, Yoshiharu: *See—*
Murata, Toshiya; Takahashi, Toshiyuki; and Kobayashi, Yoshiharu,3,469,665.
Kobayashi, Yoshio: *See—*
Murai, Wasaburo; and Kobayashi, Yoshio,3,464,038.
Kobayshi, Hidehiko; Ohama, Hiroshi; and Izawa, Shin-Ichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing polyphenylene ethers. 3,455,880, 7-15-69, Cl. 260-47.
Kobe, Inc.: *See—*
Coberly, Clarence J.; and Brown, Francis Barton, 3,451,119.
Coberly, Clarence J.; and Brown, Francis Barton, 3,476,413.
Kobe Steel Ltd.: *See—*
Asari, Akira, 3,425,261.
Asari, Akira, 3,427,856.
Asari, Akira, 3,427,857.
Asari, Akira, 3,462,991.
Fukuzuka, Toshio; and Miyashiro, Masao, 3,486,990.
Mitani, Tetsuo; and Kato, Masao, 3,434,547.
Nakano, Taira; Goto, Asahiko; Yano, Kaname; and Shibata, Syojiro, 3,453,704.
Kobe Steel Works, Ltd.: *See—*
Shimose, Takaaki; Mori, Kenji; Inoue, Kimio; and Takao, Zenichiro, 3,428,472.
Kobel, Joseph A., to Potter Instrument Company, Inc. Hub assembly. 3,464,642, 9-2-69, Cl. 242-68.3
Kobelt, Jack R. Balanced accumulator tank, single lever marine control. 3,455,186, 7-15-69, Cl. 74-878.
Kober, Ehrenfried H.: *See—*
Gavin, David F.; Kober, Ehrenfried H.; and Schnabel, Wilhelm J.,3,450,740.
Kober, Ehrenfried H., to Olin Mathieson Chemical Corporation. Condensation products of phenylenediamines and alkyleneoxides. 3,462,492, 8-19-69, Cl. 260-573.
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F., to Olin Mathieson Chemical Corporation. Cyclic polymers of hydroxymethylphenoxy phosphonitriles. 3,450,799, 6-17-69, Cl. 260-927.
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F., to Olin Mathieson Chemical Corporation. Oxyalkylated cyclic polymeric bis(hydroxyphenoxy) phosphonitriles. 3,462,518, 8-19-69, Cl. 260-927.
Kober, Ehrenfried H.; Ottmann, Gerhard F.; and Hooks, Haywood, Jr., to Olin Mathieson Chemical Corporation. Process for reduction of nitro compounds to corresponding oximes and ketones. 3,480,672, 11-25-69, Cl. 260-566.
Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F.,3,481,967.
Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F.,3,481,968.
Schnabel, Wilhelm J.; Kober, Ehrenfried H.; and Gardner, Srong K.,3,438,750.
Kober, Frederick P.: *See—*
Bulan, Edward P.; and Kober, Frederick P.,3,484,346.
Kober, William, to Garrett Corporation, The. Axial air gap generator with cooling arrangement. 3,428,840, 2-18-69, Cl. 310-114.
Koberg, Gordon E., to United States of America, Interior. Underwater gravity-type monomolecular film dispenser and method of use. 3,425,791, 2-4-69, Cl. 21-60.5
Kobernick, Gerald. Dispensing container having a membrane puncturing means. 3,425,598, 2-4-69, Cl. 222-83.
Kobetz, Paul; and Laran, Roy J., to Ethyl Corporation. Manufacture of bimetallic hydrides. 3,453,093, 7-1-69, Cl. 23-365.
Kobetz, Paul; and Thomas, Wilford H., to Ethyl Corporation. Preparation of vinylic magnesium aluminum compounds. 3,423,446, 1-21-69, Cl. 260-448.
Kobiella, Robert J., to Signode Corporation. Strap feed and tensioning mechanism. 3,420,158, 1-7-69, Cl. 100-2.
Kobiella, Robert J., to Signode Corporation. Automatic strapping machine employing friction- fused joints. 3,442,203, 5-6-69, Cl. 100-26.
Kobinger, Walter: *See—*
Heider, Joachim; Machleidt, Hans; and Kobinger, Walter,3,471,470.
Koblin, Abraham; Woolfridge, Alfred L.; and Adams, John Q., to United States of America, Army. Continuous and automatic fallout sampler. 3,475,965, 11-4-69, Cl. 73-432.
Koblischek, Peter: *See—*
Dithmar, Karl; and Koblischek, Peter,3,425,786.
Dithmar, Karl; and Koblischek, Peter,3,455,718.
Koblish, Arthur M., to National Can Corporation. Can body blank and can unit made therefrom. 3,464,583, 9-2-69, Cl. 220-77.
Koblitz, Francis Frederick; and Petrella, Robert Gabriel, to Pennsalt Chemicals Corporation. Vinylidene fluoride polymer dispersions having low viscosity. 3,441,531, 4-29-69, Cl. 260-29.1
Koblitz, Francis Frederick; and Petrella, Robert Gabriel, to Pennsalt Chemicals Corporation. Substrates coated with pigmented acrylate coating and a fluorocarbon topcoat. 3,470,014, 9-30-69, Cl. 117-72.
Kobnick, Werner, to Berg Mfg., & Sales Co. Reducing valve for front axle brake cylinders. 3,420,256, 1-7-69, Cl. 137-102.
Kobnick, Werner, to Berg Mfg. & Sales Co. Compressed airbrake assembly. 3,428,071, 2-18-69, Cl. 137-102.
Kobnick, Werner, to Berg Mfg. & Sales Co. Compressed air brake system for a trailer. 3,428,368, 2-18-69, Cl. 303-15.
Kobnick, Werner, to Berg Mfg. & Sales Co. Compressed air brake system for a trailer having a magnetic permanent brake valve. 3,443,841, 5-13-69, Cl. 303-15.
Kobnick, Werner, to Berg Mfg. & Sales Co. Compressor governor assembly. 3,481,359, 12-2-69, Cl. 137-119.
Koboldt, Melvin A., to Container Corporation of America. Stackable container. 3,480,195, 11-25-69, Cl. 229-5.5
Kobori, Yasusaburo, to Kabushikikaisha G.I.C. Safety device for vehicle passengers. 3,450,414, 6-17-69, Cl. 280-150.
Kobrehel, Peter M., to General Motors Corporation. Lock cylinder assembly. 3,475,933, 11-4-69, Cl. 70-364.
Kobryner, Henry, to Murray Manufacturing Corporation. Jaw construction for blade-jaw contacts. 3,423,723, 1-21-69, Cl. 339-259.
Kobryner, Herman H., to Murray Manufacturing Corporation. Door hinging arrangement in raintight enclosures. 3,479,104, 11-18-69, Cl. 312-229.
Kobus, Stanislas: *See—*
Benmussa, Henri; Marty, Pierre Rene Louis; and Kobus, Stanislas,3,441,675.
Marty, Pierre Rene Louis; and Kobus, Stanislas,3,427,604.
Kobusch, Helmut; Grune, Johannes; and Pfeiffer, Arnold, to Mannesmann Aktiengesellschaft. Slag retaining device for use during tapping of converters. 3,459,209, 8-5-69, Cl. 137-172.
Koch, Alan J.: *See—*
Scheitlin, Thomas G.; Hames, William A.; and Koch, Alan J.,3,433,031.
Koch, Bernhard Robert, to Grob & Co. Aktiengesellschaft. Guide for detachably mounting on a stave or a heddle frame for a loom. 3,424,205, 1-28-69, Cl. 139-91.
Koch, Bernhard Robert, to Grob & Co. Aktiengesellschaft. Heddle frame. 3,430,313, 3-4-69, Cl. 28-46.
Koch, Bernhard R., to Grob & Co. Aktiengesellschaft. Heddle frame for looms. 3,434,505, 3-25-69, Cl. 139-92.
Koch, Carl, to Sinar AG Schaffhausen. Light measuring apparatus for cameras. 3,471,704, 10-7-69, Cl. 250-239.
Koch, Carl, to Sinar AG Schaffhausen. Photographic focusing camera. 3,479,945, 11-25-69, Cl. 95-50.
Koch, Charles H., Jr., to Young Windows, Inc. Runner or guideway. 3,449,863, 6-17-69, Cl. 49-428.
Koch, David A., to Chrysler Corporation. Sealing apparatus for rotary mechanism. 3,480,203, 11-25-69, Cl. 230-145.
Koch, David A.: *See—*
Greif, Herman J., Jr.; Kuusik, Uno; and Koch, David A.,3,485,440.
Koch, David Hamilton: *See—*
Till, Derek Elliott; Levins, Philip Leo; and Koch, David Hamilton,3,434,479.
Koch, Edward James. Method and apparatus for determining equilibrium temperature-pressure data of volatile liquids. 3,446,056, 5-27-69, Cl. 73-17.
Koch, Edward J., to St. Regis Paper Company. Multiple-channel extrusion die for the production of multilayer thermoplastic sheet materials. 3,464,087, 9-2-69, Cl. 18-12.
Koch, Friedrich: *See—*
Ludwig, Herbert,3,446,887.
Koch, George Robert, to Air Reduction Company, Incorporated, mesne. Door construction. 3,436,861, 4-8-69, Cl. 49-246.
Koch, George, Sons, Inc.: *See—*
Yoe, Guy S., Jr., 3,440,977.
Koch, Gerald B.: *See—*
Funk, Wilmer E.; Koch, Gerald B.; and Yocum, Ralph W.,3,442,431.
Koch, Gerhard: *See—*
Rausch, Werner; and Koch, Gerhard,3,425,947.
Koch, H., & Sons, Inc.: *See—*
Koch, William L., 3,446,025.
Murray, Norris N., 3,446,203.
Koch, Hans, to Inventa A.G. fur Forschung und Patentverwertung. Feeding and guiding device for plastic strips and cables. 3,482,277, 12-9-69, Cl. 18-1.
Koch, Hans; and Wochnowski, Waldemar. Method of conditioning tobacco. 3,429,317, 2-25-69, Cl. 131-140.
Koch, Heinrich P., to Kwizda, F. Joh.Method of analeptic treatment with 1,4- endomethylene-Δ^5-cyclohexene-2,3-trans-dicarboxylic acid bis-diethylamide. 3,475,535, 10-28-69, Cl. 424-180.

Koch, Heinrich, to Drager, Otto H. Control system for breathing apparatus. 3,456,643, 7-22-69, Cl. 128-145.8
Koch, Heinz, to Werner & Pfleiderer. Kneading and mixing device for processing material in pasty condition. 3,468,518, 9-23-69, Cl. 259-6.
Koch, Heinz; and Paul, Harald Hugo, to Werner & Pfleiderer. Apparatus for granulating tough plastic material compounds. 3,462,796, 8-26-69, Cl. 18-9.
Koch, Helmut; Heidemann, Hans Heinrich; Birk, Peter; Busch, Hans-Jurgen; and Bernhardt, Jost, to Bernhardt Apparatebau G.m.b.H., & Co. Life jacket. 3,441,964, 5-6-69, Cl. 9-338.
Koch, Henry A.; and Long, Robert L. Wheel washing apparatus. 3,433,236, 3-18-69, Cl. 134-45.
Koch, Hermann. Process for elasticizing foamed polystyrenes and resultant product. 3,445,406, 5-20-69, Cl. 260-2.5
Koch Industries, Inc.: *See*—
Michael, Vesta Fletcher, 3,433,696.
Koch, James H.: *See*—
Trimble, Melvin B.; and Koch, James H.,3,461,945.
Koch, Karl F.: *See*—
Erchak, Michael, Jr.; Carrock, Frederick E.; and Koch, Karl F.,3,487,127.
Hoyt, John M.; and Koch, Karl,3,451,977.
Hoyt, John M.; and Koch, Karl,3,472,806.
Koch, Keith E.: *See*—
Grawey, Charles E.; Koch, Keith E.; Nelson, David V.; and Untz, Robert W.,3,486,317.
Koch, Kenneth M.; and Rice, William E., to North American Rockwell Corporation. Spring seat. 3,437,333, 4-8-69, Cl. 267-52.
Koch, Louis, to Kohnstamm, H., & Co., Inc. Color compositions. 3,485,642, 12-23-69, Cl. 99-148.
Koch, Ludwig W., to Continental Oil Company. Handling of particulate ship cargo. 3,445,008, 5-20-69, Cl. 214-14.
Koch, Ludwig W.; and Keller, Dennis F., to Continental Oil Company. Preparation and transportation of slurries. 3,471,204, 10-7-69, Cl. 302-14.
Koch, Mary J.; and Price, John A., to FMC Corporation. Lead silicofluoride as a transesterification catalyst. 3,425,998, 2-4-69, Cl. 260-75.
Koch, Otto: *See*—
Stein, Werner; Weiss, Herbert; and Koch, Otto,3,452,064.
Wulff, Carl; Stein, Werner; Koch, Otto; and Weiss, Herbert,3,485,856.
Koch, Peter, to United States of America, Agriculture. Method for producing studs from cordwood and veneer cores. 3,443,612, 5-13-69, Cl. 144-316.
Koch, Robert Carl. Wall construction. 3,438,161, 4-15-69, Cl. 52-127.
Koch, Robert E., to General Electric Company. Unitary full-range current-clearing fusible element. 3,471,818, 10-7-69, Cl. 337-296.
Koch, Robert L.; Thomas, Earl F.; Miklos, Joseph A.; and Curry, William H., to Molectro Corporation. Method of manufacturing semiconductors. 3,426,423, 2-11-69, Cl. 29-574.
Koch, Robert M.: *See*—
Robertson, Richard C.; and Koch, Robert M.,3,421,816.
Koch, Roland G., to Houdaille Industries, Inc., mesne. Quick-change tool holder with collar locking member. 3,456,957, 7-22-69, Cl. 279-91.
Koch, Russell R., to Sherwin-Williams Company, The. Paint vehicles prepared by treating adducts of fatty acid esters with peroxide and/or poly- butadiene. 3,483,152, 12-9-69, Cl. 260-23.7
Koch Supplier, Inc.: *See*—
Viene, John G., 3,456,776.
Koch, Vergil W. Apparatus for installing flexible strip material in green concrete. 3,473,450, 10-21-69, Cl. 94-39.
Koch, Walter T., to FMC Corporation. Resin coated cellulosic sheet having reduced tendency to accumulate an electrostatic charge. 3,447,948, 6-3-69, Cl. 117-73.
Koch, Walter T.; and Carevic, Frank E., to FMC Corporation. Cover for treating fresh red meat with carbon monoxide. 3,459,117, 8-5-69, Cl. 99-254.
Koch, Walter; and Zugel, Ottmar, to Metallgesellschaft Aktiengesellschaft, and Steel Company of Canada Limited, The. Process for the recovery of excess carbon from the product of an iron ore direct reduction. 3,462,262, 8-19-69, Cl. 75-33.
Koch, Werner: *See*—
Marx, Erwin; and Koch, Werner,3,454,823.
Koch, Werner; and Preuss, Friedrich, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Sheet delivery mechanism for sheet- processing machines, particularly printing presses. 3,477,710, 11-11-69, Cl. 271-64.
Koch, Werner; Roth, Hermann; and Walz, Heinz, to Siemens Aktiengesellschaft. Apparatus for regulating humidity in a climatic chamber and method of operating the same. 3,470,702, 10-7-69, Cl. 62-3.
Walz, Heinz; and Koch, Werner,3,473,022.
Koch, William Henry; and Rocher, George, to Metallurgical Exoproducts Corporation. Hot top maintaining system. 3,421,731, 1-14-69, Cl. 249-197.
Koch, William L., to Koch, H., & Sons, Inc. Fluid distribution means. 3,446,025, 5-27-69, Cl. 61-14.
Kochalski, Horst, to Hauni-Werke Korber & Co., KG. Apparatus for producing a tobacco rod. 3,473,538, 10-21-69, Cl. 131-84.
Kochalski, Horst; Rudszinat, Willy; Suck, Hans; Rode, Ludwig; David, Harri; and Erdmann, Otto, to Hauni-Werke Korber & Co. K.G. Transporting objects. 3,481,447, 12-2-69, Cl. 198-31.
Kochaney, Eugene: *See*—
Gibbs, Dale S.; Miles, Wallace J.; and Kochaney, Eugene,3,468,703.
Kochanovsky, Nikolai Jakovlevich: *See*—
Vill, Vadim Ivanovich; Kochanovsky, Nikolai Jakovlevich; Tazba, Semen Moiseevich; Shpeizman, Miron Matveevich; and Shternin, Lev Alexandrovich,3,460,734.
Kocher, Erich J.; and Grant, Whitney I., to Vilter Manufacturing Corporation. Control for air cooled condensers. 3,478,533, 11-18-69, Cl. 62-196.
Kocher, Ernst-Ulrich; von der Emden, Wolfgang; Glaser, Heinrich; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for polymerising trioxane. 3,483,165, 12-9-69, Cl. 260-67.
Kocher, Ernst-Ulrich; Wagner, Kuno; Von Der Emden, Wolfgang; and Dankert, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Polyoxymethylene copolymers. 3,477,992, 11-11-69, Cl. 260-67.
Kocher, Ernst-Ulrich: *See*—
Von Der Emden, Wolfgang; and Kocher, Ernst-Ulrich,3,436,374.
Kocher, Hans, to Buren Watch Company S.A. Watch movement for wristwatches. 3,460,341, 8-12-69, Cl. 58-82.
Kocher, Hans, to Buren Watch Company S.A. Drive spring arrangement for watch movement using two barrels. 3,479,813, 11-25-69, Cl. 58-59.
Kochey, Edward L., Jr., to Combustion Engineering, Inc. Flow divider for pneumatically conveyed stringy material. 3,431,027, 3-4-69, Cl. 302-28.
Kochey, Edward L., Jr., to Combustion Engineering, Inc. Volumetric fluid flowmeter. 3,469,446, 9-30-69, Cl. 73-196.
Kochkarev, Vladimir Ilich: *See*—
Abdullaev, Gasan Mamed Bagir Ogly; Nani, Rakhim Khasan; Nasirov, Yadulla Nusrat Ogly; Kuliev, Arif Zulfigarovich; Epshtein, Mikhail Grigorievich; and Kochkarev, Vladimir Ilich,3,472,652.
Kochorosky, Ned W.: *See*—
Hollenbeck, Clifford M.; and Kochorosky, Ned W.,3,446,707.
Kochs Adlernahmaschinen Werke A.G.: *See*—
Hannemann, Franz; Landwehr, Gunter; Sugland, Wolfgang; and Myska, Gunter, 3,443,540.
Landwehr, Gunter; and Myska, Gunter, 3,485,193.
Scholl, Hans, 3,428,005.
Scholl, Hans; and Hagemayer, Gunther, 3,434,370.
Scholl, Hans; and Heimann, Alfred, 3,461,826.
Kociscin, Joseph J., to Esso Research and Engineering Company. Stabilized arcs in electric furnaces. 3,432,606, 3-11-69, Cl. 13-33.
Kock, Erhard, to DeVilbiss Company, The. Color change apparatus. 3,450,092, 6-17-69, Cl. 118-2.
Kock, Erhard, to DeVilbiss Company, The. Electrostatic spray gun. 3,471,089, 10-7-69, Cl. 239-15.
Kock, Helmut, to Wilson Shipyard Inc. Method of forming a hydrofoil. 3,466,725, 9-16-69, Cl. 29-156.8
Kock, Winston E., to Bendix Corporation, The. Thin film tunneling device. 3,440,453, 4-22-69, Cl. 307-298.
Kocks, Friedrich, GmbH: *See*—
Herchenroder, Hans, 3,476,361.
Kocks, Friedrich, Kommanditgesellschaft: *See*—
Bindernagel, Ali, 3,430,836.
Bindernagel, Ali; Kost, Erwin; and Steinbock, Rolf, 3,448,773.
Bindernagel, Ali; Luebke, Horst; and Kost, Erwin, 3,473,574.
Kocks, Friedrich, 3,484,310.
Kocks, Friedrich, 3,485,081.
Kocks, Friedrich, to Kocks, Friedrich Kommanditgesellschaft. Methods of treatment of hot rolled rod. 3,484,310, 121-6-69, Cl. 148-153.
Kocks, Friedrich, to Kocks, Friedrich, Kommanditgesellschaft. Swing-forging machines. 3,485,081, 12-23-69, Cl. 72-406.
Kockums Mekaniska Verkstads Aktiebolag: *See*—
Andersson, Carl-Erik; and Krook, Rune, 3,457,976.
Andersson, Carl Erik; and Krook, Rune, 3,457,977.
Holm, Bengt Lennart, 3,420,207.
Holm, Bengt Lennart, 3,429,294.
Ohlson, Stig Matt Lennart, 3,450,222.
Tornmarck, Sven Ivan Arvid, 3,426,526.
Koda, Arthur J.; and Kutyla, John, to Clare, C. P., & Company. Mercury-wetted contact switch. 3,470,502, 9-30-69, Cl. 335-47.
Koda, Eiji, to Systron-Donner Corporation. Position detecting apparatus and method. 3,461,400, 8-12-69, Cl. 331-65.
Koda, Kazuko: *See*—
Neuse, Eberhard W.; and Koda, Kazuko,3,437,644.

Koda, Kenichi; Sato, Shui; Shoono, Masayuki; and Hori, Haruo, to Konishiroku Photo Industry Co., Ltd. Photographic silver halide emulsions stabilized with gallic acid or an alkyl ester thereof. 3,457,079, 7-22-69, Cl. 96-109.
Kodaira, Nobuhisa. Jacket type of constant temperature heating apparatus. 3,431,396, 3-4-69, Cl. 219-326.
Kodama, Hayashi: *See*—
Tomita, Tamaki; Wada, Ryuji; and Kodama, Hayashi,3,454,311.
Kodama, Hisao: *See*—
Hori, Yasushi; and Kodama, Hisao,3,454,731.
Kodama, Katsuhisa: *See*—
Yotsuzuka, Masaru; Keshi, Akizo; Hashimoto, Norishige; Kodama, Katsuhisa; and Nakahara, Shigenobu,3,433,751.
Kodama, Yutaka: *See*—
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko,3,455,913.
Kodaras, Michael J., to Wood Conversion Company, mesne. Ventilating ceiling construction. 3,429,250, 2-25-69, Cl. 98-40.
Kodera, Hiroshi: *See*—
Yanai, Hisayoshi; Kodera, Hiroshi; and Migitaka, Masatoshi,3,476,942.
Kodiak Corporation: *See*—
Johnson, John Douglas, 3,468,538.
Koe, Billie Kenneth: *See*—
McManus, James M.; and Koe, Billie Kenneth,3,459,767.
Koebel Diamond Tool Co.: *See*—
Bullock, Ian H., 3,452,735.
Koebner, Adolf; and Thornton, Thomas, to Marchon Products Limited. Method of refining vegetable and animal oils. 3,440,253, 4-22-69, Cl. 260-425.
Koecher, Walter, to Fellner & Ziegler G.m.b.H. Rotary drum furnace for incinerating rubbish. 3,433,186, 3-18-69, Cl. 110-14.
Koechlin, Pierre Maurice, to S.A. Libresa. Mattress and the method for producing same. 3,453,350, 7-1-69, Cl. 264-45.
Koecke Plutte & Co.: *See*—
Rosenkranz, Dieter; Tiedtke, Alfred; and Inden, Horst, 3,442,460.
Koehl, Erwin: *See*—
Hacker, Kurt; Koehl, Erwin; and Weigele, Reinhold,3,461,473.
Koehl, William J., Jr., to Mobil Oil Corporation. Electrolytic process for selective acyloxylation. 3,448,021, 6-3-69, Cl. 204-72.
Koehl, William J., Jr., to Mobil Oil Corporation. Electrochemical acyloxylation of olefins. 3,448,022, 6-3-69, Cl. 204-78.
Koehler Aircraft Products Company: *See*—
Foster, George W., 3,423,067.
Koehler, Albert T.: *See*—
Palmleaf, Herbert; Koehler, Albert T.; and Mason, Richard Lewis,3,483,900.
Koehler, Armin: *See*—
Wieden, Horst; Lenz, Hans; Moosmueller, Fritz; and Koehler, Armin,3,481,905.
Koehler, Dale R. Multiplier logic tube. 3,459,984, 8-5-69, Cl. 313-73.
Koehler, Dale R.; and Grissom, John T., to United States of America, Army. X-ray spectral measuring system utilizing a solid state ionization chamber. 3,479,507, 11-18-69, Cl. 250-83.3
Koehler, Dale R.; Grissom, John T.; and Polk, Robert G. Generator of mathematically random entities. 3,445,591, 5-20-69, Cl. 178-22.
Koehler, Dankwart, to Bell Telephone Laboratories, Incorporated. Pulse distributor comprising n-1 counters and n-1 subtraction means having scale starting with n and decreasing in unitary steps, n being greater than 2. 3,452,284, 6-24-69, Cl. 328-105.
Koehler, Frank Theodore, Jr.: *See*—
Skoultchi, Martin; and Koehler, Frank Theodore, Jr.,3,445,566.
Koehler, Gerard N., to Chauvin Arnoux et Compagnie. Synchronous-motor time-delay relay. 3,454,909, 7-8-69, Cl. 335-65.
Koehler, Gordon T.: *See*—
Koehler, Gustave J.; and Koehler, Gordon T.,3,429,551.
Koehler, Gordon T. Cartridge adapters for high-powered firearms. 3,437,040, 4-8-69, Cl. 102-41.
Koehler, Gustave J.; and Koehler, Gordon T. Operating means for fluid valves. 3,429,551, 2-25-69, Cl. 251-99.
Koehler, Heinrich: *See*—
Paule, Kurt; Bleicher, Manfred; Martin, Hans; Wanner, Karl; Bronnert, Helmut; and Koehler, Heinrich,3,456,740.
Koehler Manufacturing Company: *See*—
Lozeau, Homer A., 3,458,697.
Koehler, Max. Process for the production of sinter iron materials. 3,471,343, 10-7-69, Cl. 148-126.
Koehler, Roland; Birk, Rudolf; Frick, Hans Dieter; Fengler, Harald; and Geyken, Erwin, to Gevaert-Agfa N.V. Drier for photographic layer supports in sheet form. 3,438,140, 4-15-69, Cl. 34-160.
Koehler, Thomas R., to International Business Machines Corporation. Multiple copy electrophotographic device utilizing a charge pattern at the interface of a photoconductive layer and a dielectric layer. 3,429,701, 2-25-69, Cl. 96-1.
Koehler, Waldemar: *See*—
Sperber, Heinrich; Schulz, Gerhard; Palm, Christof; and Koehler, Waldemar,3,483,214.
Koehler-Dayton, Inc.: *See*—
Helke, Robert C.; and Sturgeon, Wayne E., 3,478,690.
Lee, Robert G., 3,429,445.
Zelnick, David R., 3,425,611.
Zelnick, David R., 3,449,183.
Koehnen, Earl A.; and Mobley, Clarnece W., Jr., to Farmhand, Inc. Hammermill and feed control device therefor. 3,436,028, 4-1-69, Cl. 241-186.
Koehnlein, Kurt W.; and Klenck, Herbert R. Ice skate blade honer. 3,461,623, 8-19-69, Cl. 51-241.
Koehring Company: *See*—
Bowman, Spencer; and McClimon, Alan S., 3,472,405.
Hartmann, Philip, 3,465,682.
Lauck, John A., 3,474,736.
Martinson, Edwin O., 3,448,874.
Martinson, Edwin O., 3,455,334.
Noll, George C., 3,448,863.
Parrett, John T.; and Hoffman, Robert L., 3,483,798.
Shapland, John S., 3,425,502.
Tennis, Francis H., 3,447,567.
Tennis, Francis H., 3,457,842.
Tennis, Francis H., 3,464,443.
Tennis, Francis H., 3,464,444.
Tennis, Francis H., 3,465,788.
Tennis, Francis H., 3,474,906.
Westerlund, Herbert A.; and Westerlund, Robert E., 3,476,358.
Koelichen, Harald, to Filler & Fiebig GmbH. Method and device for cleaning ink or indian-ink writing instruments. 3,447,964, 6-3-69, Cl. 134-22.
Koeller, Erick H.: *See*—
Hahn, Edward E.; Koeller, Erick H.; and Norikane, Kiyoshi,3,457,779.
Koelling, Robert K. Flexible coupling assembly and couplings therefor. 3,423,958, 1-28-69, Cl. 64-18.
Koelling, Wilford K. Absentee ballot device. 3,460,854, 8-12-69, Cl. 283-5.
Koelmans, Hein: *See*—
teVelde, Ties Siebolt; and Koelmans, Hein,3,481,030.
Koeln, Harold E., to Penn Corporation, mesne. Writing instruments. 3,480,370, 11-25-69, Cl. 401-107.
Koelsch, Lester M., to Beloit Corporation. Sugar beet cossette processing. 3,455,235, 7-15-69, Cl. 100-37.
Koelsch, Lester M., to Beloit Corporation. Sugar beet processing. 3,477,873, 11-11-69, Cl. 127-43.
Koeman, Meindert; and Keers, Iendrik Jan Frederik, to U.S. Philips Corporation, mesne. System of the kind comprising a number of relay arrangements. 3,462,653, 8-19-69, Cl. 317-137.
Koenecke, William J.: *See*—
Burney, Harold W.; Bickel, Paul E.; and Koenecke, William J.,3,421,618.
Koenig, Andrew C., to Whirlpool Corporation. Air flow control for an air conditioner. 3,472,044, 10-14-69, Cl. 62-408.
Koenig, Carl Fred, III, to Gray, G. A., Company. Plumb control for horizontal boring drilling and milling machine. 3,484,064, 12-16-69, Cl. 248-13.
Koenig, Earl. Safety twinkle lamp. 3,473,148, 10-14-69, Cl. 340-87.
Koenig, Fred W.: *See*—
Kus, Stanley T.; and Koenig, Fred W.,3,479,305.
Koenig, Harold R.: *See*—
Chernoch, Joseph P.; and Koenig, Harold R.,3,423,691.
Chernoch, Joseph P.; and Koenig, Harold R.,3,423,693.
Naydan, Theodore T.; and Koenig, Harold R.,3,432,721.
Koenig, Helge S.; Schjerven, Ragna Host; and Dehler, Friedrich. Combination semi-cylindrical magnifier and guide bar. 3,429,638, 2-25-69, Cl. 350-241.
Koenig, Horst; and Metzger, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft Ludwigshafen. Dimethyloxosurfurylene derivatives. 3,442,901, 5-6-69, Cl. 260-294.8
Koenig, Karl-Heinz; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of halo-substituted caprolactones. 3,437,668, 4-8-69, Cl. 260-343.
Koenig, Karl-Heinz; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. α,β-Unsaturated isocyanates. 3,468,923, 9-23-69, Cl. 260-453.
Koenig, Karl-Heinz: *See*—
Jung, Johann; and Koenig, Karl-Heinz,3,467,712.
Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert,3,468,885.
Koenig, Paul: *See*—
Koenig, Peter; and Lucian, Anton, 3,425,668.
Koenig, Peter; and Lucian, Anton, to Koenig, Paul. Device for automatic feeding of size to at least one sizing machine. 3,425,668, 2-4-69, Cl. 259-8.
Koenig, William D.: *See*—
Holzl, Robert A.; and Koenig, William D.,3,472,443.
Koening, Eugene O.: *See*—
McDaniel, Herman M.; and Koening, Eugene O.,3,426,829.

Koenitzer, Burton C., to Brady, W. H., Co. Clip-on label dispenser. 3,459,623, 8-5-69, Cl. 156-584.
Koepke, Donald Bernard, to U.S. Industries, Inc., mesne. Automatic record changer. 3,460,840, 8-12-69, Cl. 274-10.
Koepke, John A., to Illinois Tool Works Inc. Magnetic switching device. 3,465,271, 9-2-69, Cl. 335-205.
Koepke, Luetta F. Hair fastener. 3,452,760, 7-1-69, Cl. 132-11.
Koepp, Ronald L., to Monsanto Company. Low capacitance field effect transistor. 3,443,172, 5-6-69, Cl. 317-235.
Koeppe, Hans-Hermann; and Urban, Otfried, to Mundt, Geimuplast Peter KG. Transparency frames and method for mounting transparencies therein. 3,470,643, 10-7-69, Cl. 40-152.
Koepplin, William J.: *See*—
Cogen, Leonard L.; and Koepplin, William J.,3,451,806.
Koerner, Ernest L., Jr., to Monsanto Company. Purifying phosphoric acid. 3,479,139, 11-18-69, Cl. 23-165.
Koerner, Ernest L., Jr.; and Saunders, Elerington, to Monsanto Company. Process for purifying phosphoric acid. 3,458,282, 7-29-69, Cl. 23-165.
Koerner, Ralph J., to Bunker-Ramo Corporation, The. Content addressable memories. 3,438,015, 4-8-69, Cl. 340-174.
Koerner, Ralph J., to Bunker-Ramo Corporation, The. Magnetic vehicle detection system including feedback means for eliminating spurious presence indications. 3,458,802, 7-29-69, Cl. 324-41.
Koerner, Ralph J., to Bunker-Ramo Corporation, The. Content addressable memory employing sequential control. 3,465,303, 9-2-69, Cl. 340-173.
Koerner, Ralph J., to Bunker-Ramo Corporation, The. Selection device for content addressable memory system. 3,465,304, 9-2-69, Cl. 340-173.
Koerner, Ralph J., to Bunker-Ramo Corporation, The. Content addressable memory with means for masking stored information. 3,483,528, 12-9-69, Cl. 340-173.
Koerner, Warren G., to United States of America, Atomic Energy Commission. Re-entry vehicle for small packages. 3,421,714, 1-14-69, Cl. 244-1.
Koers, Vincent A. Highway right-of-way maintenance apparatus. 3,459,373, 8-5-69, Cl. 239-1.
Koertge, Nobel H., to Cutler-Hammer, Inc. Convertible electric switch module. 3,437,773, 4-8-69, Cl. 200-166.
Koertge, Nobel H., to Cutler-Hammer, Inc. Electromagnetic relay with convertible switch contact modules. 3,453,571, 7-1-69, Cl. 335-132.
Koertge, Nobel H., to Cutler-Hammer, Inc. Electrical control panel mounting channel with adjustable bracket for wire way cover. 3,483,434, 12-9-69, Cl. 317-119.
Koester, Charles J., to American Optical Company. Laser light-amplifiying structures and the like. 3,421,096, 1-7-69, Cl. 330-4.3
Koester, Charles J., to American Optical Corporation. Laser Q-switching. 3,426,294, 2-4-69, Cl. 331-94.5
Koester, Charles J., to Warner-Lambert Pharmaceutical Company, mesne. Bistable laser structure. 3,440,562, 4-22-69, Cl. 331-94.5
Koester, Charles J., to American Optical Corporation, mesne. Fiber optical image-enhancing devices, systems, and the like. 3,449,037, 6-10-69, Cl. 350-96.
Koester, Charles J., to American Optical Corporation, mesne. Fiber laser structures and the like. 3,456,211, 7-15-69, Cl. 331-94.5
Koester, Charles J., to American Optical Corporation, mesne. Apparatus for determining the degree of inversion. 3,481,674, 12-2-69, Cl. 356-201.
Koester, Charles J., to American Optical Corporation, mesne. Laser amplifiers. 3,484,710, 12-16-69, Cl. 330-4.3
Koester, Charles J.; Dixon, Edgar O.; and Snitzer, Elias, to American Optical Company, mesne. Laser systems and the like employing solid laser components and light-absorbing claddings. 3,445,785, 5-20-69, Cl. 331-94.5
Koester, Charles J.; and Snitzer, Elias, to American Optical Company, mesne. Laser amplifier having angularly disposed reflection reducing end surface. 3,421,097, 1-7-69, Cl. 330-4.3
Koester, Charles J.; and Snitzer, Elias, to American Optical Corporation, mesne. Laser having a 90° polarization rotator between two rods to compensate for the effects of thermal gradients. 3,484,714, 12-16-69, Cl. 331-94.5
Koester, Charles J.: *See*—
Siegmund, Walter P.; Koester, Charles J.; and Ask, Clifford W.,3,442,568.
Swope, Charles Hermas; Snitzer, Elias; and Koester, Charles J.,3,453,036.
Koester, David W., to Air Products and Chemicals, Inc. Preparing porous refractory oxides by adding and removing polypropylene microspheres. 3,467,602, 9-16-69, Cl. 252-455.
Koester, John P., to Orr Felt & Blanket Company, The. Method of making paper makers' felt. 3,458,911, 8-5-69, Cl. 28-72.2
Koestler, Robert Charles: *See*—
Allen, Thomas Clark; and Koestler, Robert Charles,3,427,332.
Koetitz, Kenneth F.: *See*—
Smith, Curtis W.; Schrauzer, Gerhard N.; Windgassen, Richard J.; and Koetitz, Kenneth F.,3,463,819.
Koett, Albert C. Pneumatic stitcher and method of stitching. 3,465,414, 9-9-69, Cl. 29-432.2
Koff, Bernard L.; Sterman, Albert P.; and Corsmeir, Robert J., to General Electric Company. Turbomachinery rotors. 3,451,653, 6-24-69, Cl. 253-39.
Kofferlein, Rainer: *See*—
Eissfeldt, Erich; and Kofferlein, Rainer,3,459,370.
Koffler, Sol. Process for stitching metal strip to edge portion of luggage shell. 3,468,274, 9-23-69, Cl. 112-262.
Koffskey, John M., Jr., to Union Carbide Corporation. Papermill suction box cover. 3,425,901, 2-4-69, Cl. 162-352.
Kofink, Siegfried, to Eberspacher, J. Liquid pump valve actuating arrangement. 3,468,257, 9-23-69, Cl. 103-53.
Kofman, Rijkent W.: *See*—
Fisher, Robert E.; Kofman, Rijkent W.; Reichert, Ernest D.; and Visser, Reinold H.,3,432,916.
Kofoid, Melvin J.; and Zieske, Paul L., to Boeing Company, The. Method of producing high temperature, low pressure plasma. 3,437,864, 4-8-69, Cl. 313-231.
Koga, Kosho: *See*—
Iseki, Takeshi; Koga, Kosho; and Ito, Seiji,3,426,414.
Koga, Masaru. Method of joining an endless belt together and device therefor. 3,445,899, 5-27-69, Cl. 24-37.
Koga, Masashi: *See*—
Takami, Katsumi; Yamada, Yahiko; Suda, Kyo; and Koga, Masashi,3,453,434.
Koga, Wataru; Abo, Masahiro; Yasuoka, Yoshio; Nozaki, Michio; and Nomaguchi, Kanemasa, to Hitachi Kasei Kogyo Kabushiki Kaisha. Water-soluble paint composition. 3,444,112, 5-13-69, Cl. 260-19.
Kogelnik, Herwig W., to Bell Telephone Laboratories, Incorporated. Controlled transmission of waves through inhomogeneous media. 3,449,577, 6-10-69, Cl. 250-199.
Kogler, Hubert: *See*—
Taul, Horst; and Kogler, Hubert,3,458,583.
Kogo, Masanori; and Ishizawa, Kazuhiro, to Nippon Electric Company, Limited. High dielectric strength inductance coil using pot type magnetic core. 3,430,174, 2-25-69, Cl. 336-83.
Kogstrom, Carl W.: *See*—
Brousseau, Roy D.; and Kogstrom, Carl W.,3,434,149.
Koguchi, Mitsuhiro: *See*—
Kokubo, Ryo; Takauwa, Yasuo; Koguchi, Mitsuhiro; and Nagakura, Mizuhiko,3,484,440.
Takahashi, Nobuhiko; Kokubo, Ryo; Nagakura, Mizuhiko; Koguchi, Mitsuhiro; and Murata, Atsuo,3,423,410.
Kogure, Akira: *See*—
Mori, Kan; Kawakami, Masato; Sugihara, Yasumi; Kimura, Shoji; Shibata, Tooru; and Kogure, Akira,3,466,272.
Mori, Kan; Suminoe, Taro; Yamazaki, Tamotu; Ishikawa, Tunezo; and Kogure, Akira,3,479,331.
Kogut, Val: *See*—
Coberly, Clarence J.; and Kogut, Val,3,459,823.
Koh, Teow Yan, to Canada Packers Limited. Orally active heparin and method for making and using same. 3,482,014, 12-2-69, Cl. 424-16.
Koh-I-Noor, Inc.: *See*—
Danjczek, William E., 3,428,380.
Danjczek, William E., 3,455,639.
Kohashi, Tadao, to Matsushita Electric Industrial Co., Ltd. Photoconductive-electroluminescent device having special phase or frequency relationship between the incident light signal and the electrical exciting signal. 3,430,051, 2-25-69, Cl. 250-213.
Kohashi, Tadao, to Matsushita Electric Industrial Co., Ltd. Energy-sensitive composite elements. 3,458,700, 7-29-69, Cl. 250-71.
Kohashi, Tadao, to Matsushita Electric Industrial Co., Ltd. Electroluminescent device for deriving a bright output image from a dark input image. 3,465,202, 9-2-69, Cl. 315-169.
Kohashi, Tadao; Nakamura, Tadao; and Nakamura, Kunio, to Matsushita Electric Industrial Co., Ltd. Infrared image converting device with improved response time. 3,446,963, 5-27-69, Cl. 250-83.3
Kohfeld, Werner: *See*—
Viol, Gunter; and Kohfeld, Werner,3,476,630.
Kohkhlov, Evgeny Ilich: *See*—
Vyaznikov, Alexandr Konstantinovich; Davydov, Alexei Ivanovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; Kohkhlov, Evgeny Ilich; and Charykov, Nikolai Frolovich,3,472,299.
Kohl, Douglas A., to Litton Systems, Inc., mesne. Data correlating device and process utilizing a reciprocating member. 3,432,749, 3-11-69, Cl. 324-140.
Kohl, Heinz; and Souresny, Herbert, to Schoeller-Bleckmann Stahlwerke Aktiengesellschaft, Firma. Corrosion-resistant metallic articles and composition therefor. 3,476,555, 11-4-69, Cl. 75-128.
Kohl, Karl. Shogging mechanism for the guide bars of a warp knitting machine. 3,443,402, 5-13-69, Cl. 66-86.
Kohl, Karl. Stroke control device for the needle bar mechanism of a warp knitting machine. 3,444,702, 5-20-69, Cl. 66-86.
Kohl, Karl. Guide bar swinging mechanism for a double needle bar warp knitting machine. 3,444,703, 5-20-9, Cl. 66-87.
Kohl, Karl. Raschel machine with sinkers. 3,460,357, 8-12-69, Cl. 66-86.

Kohl, Karl. Method of operating a double bed warp knitting machine. 3,460,358, 8-12-69, Cl. 66-87.
Kohl, Karl. Presser mechanism for a warp knitting machine. 3,466,898, 9-16-69, Cl. 66-86.
Kohl, Karl. Raschel knitting machine and method of operating the same. 3,469,419, 9-30-69, Cl. 66-83.
Kohlenberg, Arthur, to Codex Corporation. Apparatus and method for processing digital data affected by errors. 3,447,132, 5-27-69, Cl. 340-146.1
Kohler, Alfred: *See—*
Bauer, Kurt; and Kohler, Alfred,3,433,416.
Kohler General, Inc.: *See—*
Stevens, Donald E.; and Doyle, Edward A., 3,432,937.
Kohler, George O.: *See—*
Hoover, Richard D.; and Kohler, George O.,3,455,894.
Kohler, Jacob Willem Laurens; and Prast, Gijsbert, to U.S. Philips Corporation. Hot-gas reciprocating engine. 3,472,037, 10-14-69, Cl. 62-6.
Kohler, John J.; and Ross, Louis A., to Ansul Company, The. N,n'-sulfonyl bis]93aryl carbamates, and ,thiocarbamates,. 3,420,867, 1-7-69, Cl. 260-455.
Kohler, Marcel, to Balzers Patent-und Lizenz-Anstalt. Selectively cooled motive fluid trap for a vacuum steam pump. 3,433,297, 3-18-69, Cl. 165-40.
Kohler, Marcel; and Frick, Adalbert, to Balzers Patent- und Beteiligungs-Aktiegesellschaft. Method of and apparatus for selective operation of a working medium catcher in evacuating apparatus. 3,474,634, 10-28-69, Cl. 62-55.5
Kohler, Robert Felix; and Fromhold, Otto, to Hoerbiger Ventilwerke Aktiengesellschaft. Suction valve for piston-type compressors. 3,463,184, 8-26-69, Cl. 137-512.15
Kohler, Robert, to Hoerriger Ventilwerke Aktiengesellschaft. Annular non-return valve. 3,428,082, 2-18-69, Cl. 137-516.23
Kohler, Roland: *See—*
Wick, Richard; Kohler, Roland; and Schneider, Othmar,3,454,336.
Kohler, Rudolph H., to Union Carbide Corporation. Multiple flame jet channeling method. 3,481,648, 12-2-69, Cl. 299-14.
Kohler, Werner, to VEB Textilmaschinenbau Apolda. Method and knitting apparatus for producing a pile fabric. 3,455,123, 7-15-69, Cl. 66-87.
Kohlgagen, Walter: *See—*
Hass, Karl; Kohlgagen, Walter; Czehovsky, Gunther; and Konermann, Hans-Ewald,3,436,324.
Kohlhaas, Rudolf: *See—*
Donges, Ernst; Kohlhaas, Rudolf; Hloch, Albert; and Medic, Nikolaj,3,420,622.
Hloch, Albert; Kohlhaas, Rudolf; Medic, Nikolay; and Neises, Helmut,3,445,257.
Schafer, Helmut Karl; and Kohlhaas, Rudolf,3,441,539.
Kohlhagen, Frederick A., to Globe Woven Belting Co., Inc. Bowling pin impact curtain. 3,472,288, 10-14-69, Cl. 139-387.
Kohlhagen, Walter, to Amphenol Corporation. Synchronous reaction motor with dead- shaft rotor mount. 3,421,032, 1-7-69, Cl. 310-164.
Kohlhagen, Walter. Pulse-responsive stepping motor. 3,423,617, 1-21-69, Cl. 310-49.
Kohli, Willy; and Meroz, Charles, to Singer, Jean, & Cie S.A. Timepiece dial. 3,433,013, 3-18-69, Cl. 58-127.
Kohll, Charles F.; and Fekkes, Nanno, to Shell Oil Company. Production of polychlorobenzoic acids. 3,467,697, 9-16-69, Cl. 260-515.
Kohls, Dennis E.; Moe, Donald L.; and Reece, Harry W., to Reece Construction Co., Inc. Method and apparatus for handling bulk cement. 3,433,315, 3-18-69, Cl. 177-151.
Kohls, Norman R., to Hammond Corporation. Musical instrument percussive keyer with variable signal decay. 3,465,088, 9-2-69, Cl. 84-1.26
Kohls, Norman R.; Nykl, Clarence A., Jr.; and Ayres, William R., to Hammond Corporation. Organ percussion system providing percussive harmonic synthesis. 3,480,718, 11-25-69, Cl. 84-1.01
Kohman, Fred H.: *See—*
Friesen, Vernon W.; Klassen, Jake D.; and Kohman, Fred H.,3,460,631.
Kohmann, Willy, to Kienzle Apparate G.m.b.H. Print member actuators with lost motion coupling means. 3,420,165, 1-7-69, Cl. 101-93.
Kohn, Gerhard; and Seitzer, Dieter, to International Business Machines Corporation. Signals employing a tristable tunnel diode sensing circuit. 3,445,682, 5-20-69, Cl. 307-236.
Kohn, Gustave K.: *See—*
Fenyes, Joseph G. E.; and Kohn, Gustave K.,3,429,931.
Kohn, Gustave K., to Chevron Research Company. N-(polyhaloalkylthio) alkenylsuccinimides. 3,423,426, 1-21-69, Cl. 260-326.5
Kohn, Gustave K., to Chevron Research Company. N-Polyhaloalkylthio compounds as fungicidal agents. 3,444,300, 5-13-69, Cl. 424-273.
Kohn, Gustave K.; and Fenyes, Joseph G. E., to Chevron Research Company. N-(1-halo-1-nitroalkylthio) dicarboximides. 3,468,905, 9-23-69, Cl. 260-326.
Kohn, Gustave K.; and Fenyes, Joseph G. E., to Chevron Research Company. 1-Halo-1-nitro-alkylsulfoneyl halides and their 1-nitro-alkyladisulfide precursors. 3,479,413, 11-18-69, Cl. 260-543.
McCaskey, Bob L.; Kohn, Gustave K.; and Moore, Joseph E.,3,478,052.
Kohn, Herbert M., to Midland-Ross Corporation. Direct fired burner. 3,481,680, 12-2-69, Cl. 431-182.
Kohn, Howard M.: *See—*
Reighart, June H., 3,445,101.
Kohn, Saul R.: *See—*
Steinberg, Wallace H.; and Kohn, Saul R.,3,480,185.
Kohne, Harry F., Jr.: *See—*
Brundige, Maurice M.; Hunger, Gunther K.; and Kohne, Harry F., Jr.,3,441,473.
Fredrickson, John H.; Hunger, Gunther K.; and Kohne, Harry F., Jr.,3,451,331.
Kohnen, David P.: *See—*
Norman, Eugene, 3,463,884.
Kohner Bros., Inc.: *See—*
Roth, Dan, 3,457,671.
Kohnken, Kent H., to Carborundum Company, The. Nozzle. 3,476,324, 11-4-69, Cl. 239-590.5
Kohnle, Josef F.; and Slaugh, Lynn H., to Shell Oil Company. Production of 1,3,7-octatriene. 3,444,258, 5-13-69, Cl. 260-677.
Kohnlein, Rolf: *See—*
Buchner, Norbert; and Kohnlein, Rolf,3,430,805.
Kohno, Sakae: *See—*
Morita, Toshimitsu; Taki, Masuo; Kaneda, Maomi; and Kohno, Sakae,3,459,020.
Kohnstamm. H., & Co., Inc.: *See—*
Dunn, Michael J., 3,462,390.
Koch, Louis, 3,485,642.
Stein, William, 3,483,002.
Koho-es Gepipari Miniszterium Tuzellestechnikai Kutatointezelt: *See—*
Biro, Attila, 3,473,795.
Kohorn, Alfred O. Kitting machine needle. 3,464,237, 9-2-69, Cl. 66-121.
Kohrt, Richard J. Anchorage for church pew. 3,462,105, 8-19-69, Cl. 248-188.8
Kohya, Tetsuya; and Komagata, Eiiti, to Mitsubishi Denki Kabushiki Kaisha. Refrigerator. 3,478,536, 11-18-69, Cl. 62-441.
Kohya, Tetsuya; and Tsuji, Mikio, to Mitsubishi Denki Kabushiki Kaisha. Automatic temperature control type refrigerator. 3,478,818, 11-18-69, Cl. 165-30.
Koike, Junichiro: *See—*
Nakagawa, Shunshi; and Koike, Junichiro,3,451,418.
Koike, Michiharu: *See—*
Suzuki, Hirofumi; Koike, Michiharu; and Fujiwara, Hisashi,3,440,468.
Koistinen, Donald P., to General Motors Corporation. Heat treatment of ferrous base alloys. 3,461,002, 8-12-69, Cl. 148-12.4
Koistinen, Toivo. Fishing rod. 3,435,551, 4-1-69, Cl. 43-19.2
Koizumi, Hisao, to Tokyo Shibaura Electric Co., Ltd. Rotors of an electrical rotary machine. 3,439,203, 4-15-69, Cl. 310-54.
Koizumi, Kiyotaka: *See—*
Amano, Shuichi; Ozono, Tetsujiro; and Koizumi, Kiyotaka,3,453,643.
Koizumi, Shun: *See—*
Kometani, Yutaka; Koizumi, Shun; Fumoto, Syozo; Tanigawa, Singo; and Nakajima, Takeaki,3,462,401.
Koizumi, Yutaka, to Kabushiki Kaisha Ricoh. Action repeating device. 3,456,515, 7-22-69, Cl. 74-142.
Kojima, Koujiro: *See—*
Takahashi, Yoshikazu; Kojima, Koujiro; Kahata, Hisashi; and Iwasaki, Iwao,3,453,101.
Kojima, Mirei: *See—*
Aikawa, Michinosuke; Kojima, Mirei; and Takahashi, Chushichi,3,430,289.
Kojima, Toshio: *See—*
Inaba, Seiuemon; Kojima, Toshio; and Amemiya, Yoichi,3,483,406.
Inaba, Seiuemon; Shirafuji, Ryoko; Kojima, Toshio; and Amemiya, Yoichi,3,469,123.
Kojima, Yasuhiro: *See—*
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro,3,449,196.
Kojima, Yasuo: *See—*
Kimura, Kenjiro; Negoro, Akio; Kojima, Yasuo; and Saiji, Tsutomu,3,427,797.
Kojima, Yu: *See—*
Nikai, Sei; Kojima, Yu; Mukai, Tsuneo; and Hirata, Shigeru,3,485,384.
Kok, Bessel: *See—*
Bongers, Leonard H.; and Kok, Bessel,3,420,739.
Kok, Pieter W., to North American Philips Company, Inc. Stereoscopic X-ray apparatus. 3,424,901, 1-28-69, Cl. 250-60.

Kok, Pieter W., to U.S. Philips Corporation, mesne. X-ray table having a plurality of pairs of slings with oppositely windable members. 3,449,570, 610-69, Cl. 250-54.
Kokaly, Joseph: *See*—
Bianchetta, Donald L.; Junck, John A.; and Kokaly, Joseph,3,444,948.
Kokaly, Joseph; and Miller, Lawrence J., to Sandvikens Jernverks Aktiebolag. Apparatus for controlling the position of the elevator in a self-loading elevator scraper. 3,484,960, 12-23-69, Cl. 37-8.
Kokernoot, Jack David. Milk weighing machine. 3,421,592, 1-14-69, Cl. 177-24.
Kokesh, Ronald A.; and Rotier, Donald J. Shiftable counter using a magnetic core as the counting element. 3,487,386, 12-30-69, Cl. 340-174.
Kokinda, George: *See*—
Greck, Eugene; and Kokinda, George,3,445,262.
Kokkeler, Donald C.: *See*—
Beaudoin, Clifford S.; and Kokkeler, Donald C.,3,457,663.
Kokkinis, Nikolaus, to Lindauer Dornier Gesellschaft m.b.H. Apparatus for positioning gripper rods in shuttleless looms. 3,438,402, 4-15-69, Cl. 139-122.
Kokoruda, Michael; Langdon, William K.; and Levis, William W., Jr., to Wyandotte Chemicals Corporation. Thioethers derived from polyhalogenated alkylene oxides. 3,459,762, 8-5-69, Cl. 260-306.
Kokosinski, Jacek; Orlowski, Jan; Czachowska, Barbara; and Hancyk, Boleslaw. Preparation of trimethyl chloro-substituted lower Alkyl quaternary ammonium salts. 3,424,793, 1-28-69, Cl. 260-567.6
Kokoszka, John G.; and Yates, Gerald P., to Dow Corning Corporation. Aerosol starch. 3,462,384, 8-19-69, Cl. 260-9.
Koksharov, Vladimir Mikhailovich: *See*—
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Kokubo, Eiichi: *See*—
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,454,017.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,469,365.
Kokubo, Ryo: *See*—
Abe, Kazuo; Kokubo, Ryo; Yamada, Yumizuru; Nagakura, Mizuhiko; and Shima, Koji,3,432,274.
Kokubo, Ryo; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, to Nissan Kagaku Kogyo Kabushiki Kaisha. Process for producing high grade melamine. 3,454,571, 7-8-69, Cl. 260-249.7
Kokubo, Ryo; Takauwa, Yasuo; Koguchi, Mitsuhiro; and Nagakura, Mizuhiko, to Nissan Kagaku Kogyo Kabushiki Kaisha. Process for producing high purity melamine. 3,484,440, 12-16-69, Cl. 260-249.7
Takahashi, Nobuhiko; Kokubo, Ryo; Nagakura, Mizuhiko; Koguchi, Mitsuhiro; and Murata, Atsuo,3,423,410.
Kokusai Denki Kabushiki Kaisha: *See*—
Isobe, Kosaku; and Kakiage, Seinosuke, 3,449,549.
Tanaka, Yukio; Soya, Katsuji; and Yamagishi, Hitoshi, 3,480,486.
Kokusai Denshin Denwa Kabushiki Kaisha: *See*—
Kurimura, Toshio; Yamamura, Kazuomi; and Murahashi, Tsuneo, 3,454,862.
Oshima, Shintaro, 3,427,551.
Oshima, Shintaro; and Kamibayashi, Tetsusaburo, 3,428,955.
Oshima, Shintaro; and Kamibayashi, Tetsusaburo, 3,432,681.
Oshima, Shintaro; Kamibayashi, Tetsusaburo; and Amano, Kitsutaro, 3,440,436.
Oshima, Shintaro; Futami, Kakuo; Fukui, Takasuke; Kamibayashi, Tetsusaburo; and Komazawa, Yoshihisa, 3,441,494.
Oshima, Shintaro; Nakagome, Yukio; and Fukata, Yasuo, 3,476,878.
Sasaki, Hiroshi; and Maruyama, Tatsuo, 3,475,556.
Tadenuma, Koji, 3,436,481.
Kokusai Display Kogyo Kabushiki Kaisha: *See*—
Ito, Reijiro, 3,425,011.
Ito, Reijiro, 3,474,314.
Kokx, Darrel D., to Procter & Gamble Company, The. Catamenial tampon. 3,431,910, 3-11-69, Cl. 128-285.
Koland, David G., to Whirlpool Corporation. Fluid dispensing means for a floor scrubber and polisher. 3,444,577, 5-20-69, Cl. 15-50.
Koland, David G., to Whirlpool Corporation. Latch. 3,461,741, 8-19-69, Cl. 74-532.
Koland, David G., to Whirlpool Corporation. Floor scrubber and polisher apparatus. 3,477,086, 11-11-69, Cl. 15-320.
Koland, David G.; and Robinson, James M., to Whirlpool Corporation. Liquid containers for a floor scrubber and polisher. 3,456,279, 7-22-69, Cl. 15-320.
Kolarik, Paul J.: *See*—
Johnson, Charles E.; and Kolarik, Paul J.,3,465,374.
Skinner, Clayton H.; and Kolarik, Paul J.,3,428,092.
Kolb, Arthur F.: *See*—
Carter, Uriel F.; Kolb, Arthur F.; and Kunath, Elmer M.,3,478,292.
Hanson, James R.; and Kolb, Arthur F.,3,478,179.
Kolb, Edwin R.; Richardson, James I.; and Hunstiger, Francis, to Harris-Intertype Corporation. Corona charging unit. 3,435,309, 3-25-69, Cl. 317-262.
Kolb, Erich, to Bosch, Robert, G.m.b.H. Windshield cleaner. 3,465,378, 9-9-69, Cl. 15-250.17
Kolb, Ernest D.; Laudise, Robert A.; Spencer, Edward G.; and Wood, Darwin L., to Bell Telephone Laboratories, Incorporated. Hydrothermal growth of rare earth orthoferrites and materials so produced. 3,485,759, 12-23-69, Cl. 252-62.57
Kolb, Frederick L., Jr.: *See*—
Eastwood, Fred; Brindle, John Harry; and Kolb, Frederick L., Jr.,3,458,169.
Kolb, Gunter: *See*—
Honig, Hans Ludwig; Muller, Erwin Alfons; Kuhnel, Werner; Kolb, Gunter; and Elzer, Paul,3,445,438.
Honig, Hans-Ludwig; Kolb, Gunter; and Wunder, Walter,3,425,863.
Kolb, Gunther; and Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of α,β-unsaturated organic compounds. 3,474,129, 10-21-69, Cl. 260-479.
Kolb, Hans; Hartmann, Rudolf; and Buckmiller, Harald, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing pellets from sodium trichloracetate which do not agglomerate. 3,444,287, 5-13-69, Cl. 264-109.
Kolb, Hermann: *See*—
Mallrich, Rudolf; and Kolb, Hermann,3,478,785.
Kolb, Kenneth E. Filter system and method. 3,422,601, 1-21-69, Cl. 55-350.
Kolb, Kenneth E.; and Schreiber, Charles L., to Corning Glass Works. Glass and plastic laminates. 3,471,356, 10-7-69, Cl. 161-160.
Kolb, Kenneth M.: *See*—
Willcox, Oswin B.; Kolb, Kenneth M.; and Amin, Rajnikant B.,3,459,574.
Kolb, Otmar: *See*—
Zeiser, Walter; Loffley, Hans; and Kolb, Otmar,3,450,841.
Kolb, Robert H., to Shell Oil Company. Method for determining the dip of subterranean earth formations. 3,466,532, 9-9-69, Cl. 324-1.
Kolb, William A.; and Wilson, James H., to United States Steel Corporation. Reference and sensing unit for automatic gas standardizers. 3,449,566, 6-10-69, Cl. 250-43.5
Kolb, Wolfgang: *See*—
Spuhler, Hanspeter; and Kolb, Wolfgang,3,473,395.
Kolbel, Gert F. Spring operated physical exerciser. 3,445,109, 5-20-69, Cl. 272-83.
Kolbel, Gert Friedrich. Physical exerciser. 3,460,392, 8-12-69, Cl. 73-379.
Kolbert, Melvin. Communication between submarine and aircraft. 3,431,495, 3-4-69, Cl. 325-28.
Kold Kist, Inc.: *See*—
Jarvis, Edwin W.; and Casey, Dahl B., 3,474,842.
Kolec, Robert F., to Olympic Screw & Rivet Corporation. Piercing and slotting of drive rivets. 3,445,870, 5-27-69, Cl. 10-20.5
Kolec, Robert F., to Olympic Screw & Rivet Corporation. Rivet-forming dies. 3,471,879, 10-14-69, Cl. 10-15.
Kolecki, Richard E., to Clark Equipment Company. Brake adjuster. 3,465,854, 9-9-69, Cl. 188-196.
Kolek, Robert L.: *See*—
Eilerman, George E.; Sanguigni, John A.; Kolek, Robert L.; Fasnacht, James J.; and McWilliams, Donald E.,3,437,517.
Kolek, Robert L.; and Bartrug, Norman G., to PPG Industries, Inc. Glass fiber cord construction. 3,446,003, 5-27-69, Cl. 57-140.
Kolenda, Donald J.: *See*—
Spon, Carroll V.; and Kolenda, Donald J.,3,455,126.
Kolesar, Daniel J.: *See*—
Greenberg, Myron L.; and Kolesar, Daniel J.,3,455,155.
Kolesar, Daniel J., to Babcock & Wilcox Company, The. Leveling construction for heavy machinery and instruments. 3,464,654, 9-2-69, Cl. 248-13.
Kolesh, Victor Anthony, to Wallace-Murray Corporation. Abrasive tool. 3,420,007, 1-7-69, Cl. 51-209.
Kolesinski, Henry S.; and Roth, Peter H., to Polaroid Corporation. Ethyl acrylate, methyl methacrylate and acrylic acid terpolymer adhesive for polyester film supports and gelatin layers. 3,460,945, 8-12-69, Cl. 96-87.
Koleske, Louis M. Lawn ball game with elevated goals. 3,451,680, 6-24-69, Cl. 273-118.
Koleske, Otto, to Wilson Manufacturing Corporation. Pin curl clip. 3,430,637, 3-4-69, Cl. 132-46.
Kolibas, James A., to Addressograph-Multigraph Corporation. Photocopying. 3,441,345, 4-29-69, Cl. 355-10.
Kolibas, James A., to Addressograph-Multigraph Corporation. Fuser for electrostatic images. 3,448,970, 6-10-69, Cl. 263-8.

Kolik, Ondrej: *See—*
Brychta, Ondrej; Tlucko, Josef; Kolik, Ondrej; and Capla, Miroslav,3,465,752.
Kolin, Alexander, to University of California, The Regents of the. Electrophoretic fractionation apparatus. 3,451,918, 6-24-69, Cl. 204-299.
Kolin, Alexander; and Cox, Paul A. University of California, The Regents of the Electrophoretic fractionating apparatus. 3,479,277, 11-18-69, Cl. 204-299.
Kolin, Alexander; and Vanyo, James P., to University of California, The Regents of the. Split-pole electromagnetic flow transducer. 3,446,071, 5-27-69, Cl. 73-194.
Kolitsch, Robert: *See—*
Busch, Siegfried; Germann, Reimar; and Kolitsch, Robert,3,452,287.
Kolk, Theodor; and Wertelewski, Wilhelm, to Becorit Grubenausbau GmbH. Rail vehicle brake systems. 3,486,592, 12-30-69, Cl. 188-181.
Kolka, Alfred J.: *See—*
Ecke, George G.; and Kolka, Alfred J.,3,463,731.
Ecke, George G.; and Kolka, Alfred J.,3,476,838.
Kolka, Alfred; Tai, Wun T.; and Mult, Roy H., to Koppers Company, Inc. Tris-substituted resorcinol compound and the modification of rubber therewith. 3,462,382, 8-19-69, Cl. 260-3.
Kolka, Thomas C., to Ford Motor Company. Door edge guard. 3,473,264, 10-21-69, Cl. 49-462.
Koll, Stanley J., to American Flange & Manufacturing Co., Inc. Feeding bottle having integral opening means. 3,477,603, 11-11-69, Cl. 215-11.
Koll, Stanley J.; and Moller, Thomas G., to American Flange & Manufacturing Co., Inc. Ring pull closure cap. 3,446,382, 5-27-69, Cl. 215-46.
Koll, Stanley J.; and Rocus, John M., to American Flange & Manufacturing Co., Inc. Method of securing caps to containers. 3,460,311, 8-12-69, Cl. 53-42.
Koll, Stanley J.: *See—*
Wolf, Edward M.; and Koll, Stanley J.,3,434,266.
Kollander, Melvin M.; and Kollander, Norman A. Trailer suspension with steerable axle. 3,448,999, 6-10-69, Cl. 280-426.
Kollander, Norman A.: *See—*
Kollander, Melvin M.; and Kollander, Norman A.,3,448,999.
Kollar, James A.: *See—*
Massey, Grant W., 3,430,954.
Kollar, John P., 1/2 to Kollar, Thomas J. Double-ended cutting insert and shank therefor. 3,475,802, 11-4-69, Cl. 29-96.
Kollar, Thomas J.: *See—*
Kollar, John P., 3,475,802.
Kolle, Erwin, to Daimler-Benz Aktiengesellschaft. Installation for controlling the cooling medium temperature to a predetermined desired value with an internal combustion engine. 3,459,161, 8-5-69, Cl. 123-41.1
Kolle, George Frederic, to Ascast Corporation. Graphite continuous casting mold. 3,459,255, 8-5-69, Cl. 164-283.
Kollenberger, Walter, to Howaldtswerke-Deutsche Werft Aktiengesellschaft. Fluid-tight seals for rotatable shafts and the like. 3,434,727, 3-25-69, Cl. 277-58.
Kollenborn, Cecil L. Adjustable easy chair table. 3,435,783, 4-1-69, Cl. 108-8.
Koller, Edward J.; Pierce, Thomas J.; and Polk, Andrew W., Jr., to Wonder Products Company. Resiliently supported hobbyhorse mounted on a plural pivoted link. 3,423,085, 1-21-69, Cl. 272-53.2
Koller, Walter. Card index with selecting means. 3,423,862, 1-28-69, Cl. 40-65.
Kollermann, Norbert: *See—*
Schonemeyer, Hilmar; and Kollermann, Norbert,3,443,034.
Kolless, Siegfried, to Eichner Organisation GmbH. Control arrangement for copying devices. 3,465,122, 9-2-69, Cl. 219-216.
Kolless, Siegfried: *See—*
Spiroch, Franz; Kolless, Siegfried; and Pons, Heinz,3,445,796.
Kolliker, Hans Peter; and Hindermann, Peter, to Geigy, J. R., A.G. Sulfuric acid ester derivatives of 1-anilino - 4 - hydroxy - anthraquinone and mixtures. 3,421,828, 1-14-69, Cl. 8-25.
Kolling, Georg: *See—*
Jankowski, Alfons; Kolling, Georg; and Paulsen, Siegfried,3,472,846.
Kollmai, Klaus E. Power washing apparatus including an accumulator. 3,473,480, 10-21-69, Cl. 103-223.
Kollman, Robert C.; Lang, William D.; and Simone, Dominic, to National Lead Company. Electrolyte-wettable storage battery separators and process for forming same. 3,472,700, 10-14-69, Cl. 136-146.
Kollmann, Wilfried: *See—*
Laurien, Gunter, 3,477,132.
Kollmorgen Corporation: *See—*
Bentley, George P.; and Lord, Joseph S., 3,446,972.
Bentley, George P.; and Lord, Joseph S., 3,458,261.
Kollodge, Marvin A.: *See—*
Klinger, Richard C.; and Kollodge, Marvin A.,3,425,266.
Kollonitsch, Janos, to Merck & Co., Inc. Process for preparing 5-(3-methylamino-propyl-or- propylidene-)-5H-dibenzo cycloheptenes or 10,11- dihydro-compounds. 3,445,519, 5-20-69, Cl. 260-570.8
Kollonitsch, Janos, to Merck & Co., Inc. Preparation of aminophenyl-nitroimidazoles. 3,446,815, 5-27-69, Cl. 260-309.
Kollonitsch, Janos, to Merck & Co., Inc. Preparation of nitroimidazole carbamate. 3,459,764, 8-5-69, Cl. 260-309.
Kollonitsch, Janos, to Merck & Co., Inc. Process for preparing chloroalkyl thiazoles, pyrimidines and pyridines. 3,461,125, 8-12-69, Cl. 260-251.
Kollonitsch, Janos, to Merck & Co., Inc.α-Amino acid anhydrides. 3,462,460, 8-19-69, Cl. 260-345.9
Kollonitsch, Janos, to Merck & Co., Inc. Preparation of 2-(fluorophenyl)-4(5)-nitroimidazoles. 3,471,511, 10-7-69, Cl. 260-309.
Kollonitsch, Janos; and Verdi, Vincent F., to Merck & Co., Inc. Preparation of aminophenyl-nitroimidazoles. 3,471,512, 10-7-69, Cl. 260-309.
Kollrack, Reiner H., to Leesona Corporation, mesne. Electrochemical cell containing alkali- metal hydroxide electrolyte and method of producing electrical energy. 3,483,035, 12-9-69, Cl. 136-86.
Kollsman Instrument Corporation: *See—*
Barnes, John W., 3,449,587.
Cooper, Joseph F., 3,473,267.
Curwen, Kenneth Robert, 3,482,440.
Kahn, Elliott H., 3,446,555.
Lis, Theodore M., 3,476,891.
Minter, Robert L., 3,447,854.
Moskowitz, Saul; and Burkhart, Harry Wade, Jr., 3,446,970.
Naidich, Herbert H.; and Mealy, John T., 3,441,346.
Olson, Kenneth N., 3,453,466.
Walker, Burt; Wollman, Herbert; and Chrouch, Robert C., 3,463,925.
Zuckerbraun, Jacob S., 3,437,814.
Kollsman, Paul. Method of reverse osmosis. 3,462,362, 8-19-69, Cl. 210-23.
Kollsman, Paul. Automatic color balance for color television. 3,479,448, 11-18-69, Cl. 178-5.2
Koln, Hans Georg: *See—*
Kaupp, Josef; Klug, Helmut; Mittelberger, Karl Heinz; and Koln, Hans Georg,3,467,640.
Kolnowski, Gene R., to Westinghouse Electric Corporation. Video pulse sample and hold circuitry. 3,470,482, 9-30-69, Cl. 329-102.
Kolobow, Theodor; and Dedrick, Robert L., to United States of America, Health, Education and Welfare. Dialysate capacity augmentation process. 3,463,728, 8-26-69, Cl. 210-22.
Kolock Products Company: *See—*
Howard, Reginald C., 3,473,202.
Kolodney, Morris, to United Nuclear Corporation. Apparatus for the determination of carbon in a fluid. 3,451,256, 6-24-69, Cl. 73-23.
Kolodney, Morris; Minushkin, Bertram; and Rosh, Donald M., to United Nuclear Corporation. Continuous oxygen monitor for liquid metals. 3,481,855, 12-2-69, Cl. 204-195.
Kolodny, Edwin Ralph; and Booth, Robert Ben, to American Cyanamid Company. Clear overflow settling with very high molecular weight polyelectrolytes. 3,480,761, 11-25-69, Cl. 210-54.
Kolodnyckij, Roman, to Sperry Rand Corporation. Intensity control for CRT display. 3,473,082, 10-14-69, Cl. 315-30.
Kolodziej, Walter F., to General Time Corporation. Electromagnetic vibrator. 3,440,813, 4-29-69, Cl. 58-38.
Kolomayets, George; and Bury, Allen J., to Admiral Corporation. Tone arm drive mechanism. 3,420,533, 1-7-69, Cl. 274-15.
Kolster, Wilhelm K., to Johnson, George F., and Kubly, Raymond R., Jr., mesne. Comparison calorimeter. 3,460,385, 8-12-69, Cl. 73-190.
Kolthaus & Busch K.G.: *See—*
Hauschke, Manfred; and Ebbinghaus, Erich, 3,449,812.
Koltvedt, Robert: *See—*
Keahn, Albert G.; and Koltvedt, Robert,3,427,068.
Koltypin, Evgeny Alexandrovich: *See—*
Nastjukha, Alexandr Ivanovich; Koltypin, Evgeny Alexandrovich; and Smirnov, Pavel Alexandrovich,3,480,822.
Kolyer, John M.; and Kveglis, Albert A., to Allied Chemical Corporation. Anionic polymerization of lactams with (ρ-substi- tuted phenylthio)S-triozine as promoter. 3,444,142, 5-13-69, Cl. 260-78.
Kolyer, John M.; and Kvlglis, Albert A., to Allied Chemical Corporation. Polymerization of lactams. 3,478,025, 11-11-69, Cl. 260-248.
Kolze, Lawrence A., to Dole Valve Company, The. Ball seat type fluid flow valve. 3,430,918, 3-4-69, Cl. 251-152.
Komachiya Honten Co., Ltd.: *See—*
Ito, Yonezo, 3,435,832.
Komagata, Eiiti: *See—*
Kohya, Tetsuya; and Komagata, Eiiti,3,478,536.
Komai, Hisataka: *See—*
Asai, Harmumi; Komai, Hisataka; and Hada, Nobuhide,3,468,856.

Komai, Yoshiaki; Yoshino, Zenichi; Miyazaki, Yasunobu; Uematsu, Shigeru; and Mifune, Keiji, to Nippon Shiryo Kogyo Co., Ltd. Converter or continuous acid-saccarification of starch. 3,446,664, 5-27-69, Cl. 127-28.
Komamiya, Yasuo; and Sugiyama, Takeji, to Industrial Science and Technology, Agency of. Burst input reactance coupled asynchronous logic circuit. 3,444,392, 5-13-69, Cl. 307-206.
Komarek, Ernst: *See—*
Schade, Franz; Komarek, Ernst; and Trescher, Viktor,3,429,649.
Schmid, Helmut; Luck, Wolfhard; Loderhose, Ernst; Zinz, Bruno; and Komarek, Ernst,3,482,925.
Komarov, Jury Alexandrovich: *See—*
Shonin, Leonid Nikolaevich; Konoplev, Jury Sergeevich; Komarov, Jury Alexandrovich; Ivanov, Igor Nikolaevich; Silin, Mikhail Danilovich; Veyalis, Nina Petrovna, and; and Karpinskaya, Vera Borisovna,3,443,432.
Komatsu, Akira: *See—*
Moroe, Tatsuo; Hattori, Satohiko; Komatsu, Akira; Matsui, Takeshi; and Kurihara, Haruki,3,459,773.
Moroe, Tatsuo; Hattori, Staohiko; Komatsu, Akira; and Muraki, Shigeru,3,459,556.
Moroe, Tatsuo; Komatsu, Akira; Matsui, Takeshi; and Ueda, Kuniaki,3,433,839.
Komatsu, Chiaki: *See—*
Futagawa, Yoshikiyo; and Komatsu, Chiaki,3,481,138.
Komatsu, Koei: *See—*
Okuya, Eitaro; Ito, Tokuo; Sakaguchi, Akio; Komatsu, Koei; and Yasunaga, Hidetoshi,3,454,680.
Komatsu, Kouei: *See—*
Matsumoto, Tsuyoshi; Ito, Tokuo; Komatsu, Kouei; Yasunaga, Hidetoshi; and Ueda, Kenichi,3,471,462.
Okuya, Eitaro; Sakaguchi, Adio; Komatsu, Kouei; Kikuchi, Tatsuhiko; Yasunaga, Hidetoshi; and Andueda, Kenichi,3,432,515.
Ueda, Kenichi; Yasunaga, Hidetoshi; and Komatsu, Kouei,3,432,517.
Komatsu, Makoto: *See—*
Asaka, Mitsuo; Komatsu, Makoto; and Jufiyama, Susumu,3,436,437.
Igarashi, Yukio; Komatsu, Makoto; Fujiyama, Susumu; and Okamoto, Kazuo,3,432,556.
Komatsu, Nobuhiko, to Green Cross Corporation, The. Process for producing an antifungal and antiprotozoal substance. 3,458,402, 7-29-69, Cl. 195-81.
Komatsu, Ryosaku, to Nippon Telegraph and Telephone Public Corporation. Temperature compensated semiconductor resistor. 3,484,658, 12-16-69, Cl. 317-234.
Komatsu, Toshiaki: *See—*
Nakagome, Takenari; and Komatsu, Toshiaki,3,420,819.
Komatsu, Toshiro; and Ujihara, Akira, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Device for preventing the swaying of the suspending means in a crane. 3,476,263, 11-4-69, Cl. 212-14.
Komatsubara, Gakuo: *See—*
Honme, Seigo; and Komatsubara, Gakuo,3,486,021.
Komatsubara, Kiichi, to Hitachi, Ltd. Microwave solid-state oscillator device and a method for varying the oscillation frequency thereof. 3,469,208, 9-23-69, Cl. 331-107.
Komatsubara, Kiichi, to Hitachi, Ltd. Thermometer for measuring very low temperatures. 3,473,385, 10-21-69, Cl. 73-362.
Komatsubara, Tomomitsu: *See—*
Lanaka, Tomoharu; Miyamae, Masao; Takayama, Shinichi; Iio, Katsumi; Komatsubara, Tomomitsu; and Soma, Takeshi,3,424,729.
Komazawa, Yoshihisa: *See—*
Oshima, Shintaro; Futami, Kakuo; Fukui, Takasuke; Kamibayashi, Tetsusaburo; and Komazawa, Yoshihisa,3,441,494.
Komberec, Harold L.; Kilcup, Dillon K.; and Smith, Alfred T. Mechanism for placement of first cookie on ice cream sandwich. 3,472,181, 10-14-69, Cl. 107-1.
Komendowski, Henry, to Armstrong-Blum Manufacturing Company. Brush-type cleaning device for band saws. 3,485,123, 12-23-69, Cl. 83-168.
Komendowski, Henry; and Blum, Frederick J., Jr., to Armstrong-Blum Manufacturing Company. Feed pressure control system for hinge type horizontal band saw. 3,460,420, 8-12-69, Cl. 83-201.07
Komendowski, Henry; and Whitfield, James E., Jr., to Armstrong-Blum Manufacturing Company. Hinge type horizontal band saw with improved control system. 3,465,628, 9-9-69, Cl. 83-201.07
Komeno, Taichira, to Shionogi & Co., Ltd.1-Lower alkyl - 2,3 - epithio-5α-androstan- 17-β-ols and their 17-lower alkanoates. 3,422,192, 1-14-69, Cl. 424-241.
Kometani, Yutaka; Koizumi, Shun; Fumoto, Syozo; Tanigawa, Singo; and Nakajima, Takeaki, to Daikin Kogyo Co., Ltd. Polytetrafluoroethylene molding powder and method of preparation thereof. 3,462,401, 8-19-69, Cl. 260-92.1
Kometya, Katsutoshi: *See—*
Matsuo, Shigetomo; Matsuki, Yosiaki; and Kometya, Katsutoshi,3,427,373.
Komeya, Katsutoshi: *See—*
Matsuo, Shigetomo; Matsuki, Yosiaki; and Komeya, Katsutoshi,3,436,179.
Komhyr, Walter D. Method of sensing the ozone in upper atmosphere. 3,428,542, 2-18-69, Cl. 204-195.
Komin, Nikolai Egorovich: *See—*
Izergina, Evgenia Valentinovna; Yakovlev, Georgy Konstantinovich; Zakharova, Antonina Dmitrievna; and Komin, Nikolai Egorovich,3,450,635.
Kominami, Naoya; Nakajima, Hitoshi; and Tamura, Nobuhiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Preparation of aromatic nitriles from substituted benzenes, HCN and oxygen in the presence of copper cyanide. 3,433,820, 3-18-69, Cl. 260-465.
Kominami, Naoya; Nakajima, Hitoshi; Watanabe, Itaru; Kimura, Takeo; and Sakurai, Tokio, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing unsaturated aliphatic nitriles. 3,465,028, 9-2-69, Cl. 260-465.3
Kominato, Kiyoshi. Method of preparing a series of prosthetic groups and coenzymes of a new redox-enzyme which are present in plants, animals, or foods and have vitamin-like activity. 3,429,868, 2-25-69, Cl. 260-112.5
Komiya, Akitoshi: *See—*
Ariga, Kinji; Takamizawa, Minoru; Harada, Haruo; Komiya, Akitoshi; Takaya, Seiki; and Umemura, Mitsuo,3,454,616.
Komiyama, Eizo: *See—*
Kikumoto, Tomichi, 3,455,577.
Komizo, Hidemitsu: *See—*
Ito, Yukio; and Komizo, Hidemitsu,3,421,122.
Komline-Sanderson Engineering Corp.: *See—*
Bartholet, Emil J., 3,433,265.
Komoda, Hayashi: *See—*
Yamada, Masakazu; and Komoda, Hayashi,3,477,443.
Komor, Joseph A.: *See—*
Hodgkiss, John A.; Komor, Joseph A.; and Schenck, Leslie M.,3,437,697.
Komor, Peter S., to Red Jacket Manufacturing Company. Well pumping apparatus. 3,457,866, 7-29-69, Cl. 103-87.
Komor, Peter S.; and Deters, Elmer M., to Red Jacket Manufacturing Company. Fluid pumping system. 3,457,867, 7-29-69, Cl. 103-87.
Komota, Hayashi: *See—*
Yamada, Masakazu; Komota, Hayashi; and Mano, Fumiyoshi,3,449,128.
Komoto, Keisuke: *See—*
Noguchi, Teruhisa; Komoto, Keisuke; Uchiyama, Yoshio; and Kano, Saburo,3,442,929.
Kompanek, Andrew J., Jr.; Phelps, Frederick L., Jr.; and Klotz, James M., to Teleflex, Incorporated. Coating with zinc and aluminum powder in potassium silicate. 3,423,229, 1-21-69, Cl. 117-62.
Kompanek, Harry W.: *See—*
Granfors, Ernest A.; Loveless, Don L.; Boyle, Charles F.; and Kompanek, Harry W.,3,444,508.
Kompanek, Harry W. Loudspeaker with piezoelectric wafer driving elements. 3,423,543, 1-21-69, Cl. 179-110.
Kompelien, Arlon D., to Honeywell Inc. Solid state motor speed control. 3,463,933, 8-26-69, Cl. 307-133.
Komperda, Joseph W.: *See—*
Hofmeister, Maurice H.; and Komperda, Joseph W.,3,426,668.
Kompfner, Rudolf, to Bell Telephone Laboratories, Incorporated. Intracavity image converter. 3,454,768, 7-8-69, Cl. 250-83.3
Komsa, Sasha: *See—*
Dunlap, Samuel G.; and Komsa, Sasha,3,472,102.
Dunlap, Samuel G.; and Komsa, Sasha,3,486,402.
Komuro, Isao; and Nagai, Kenichi, to Mitsubishi Petrochemical Co., Ltd. Oxidation of acrolein and methacrolein with oxygen and a vanadium oxide-antimony oxide catalyst. 3,456,002, 7-15-69, Cl. 260-530.
Komuro, Toshio: *See—*
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio,3,444,040.
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio,3,458,398.
Konareff, Jean: *See—*
Borrel, Marcel; and Konareff, Jean,3,445,347.
Borrel, Marcel; and Konareff, Jean,3,459,639.
Konazewski, Clement R., to Halm Instrument Co. Inc. Vacuum feeder for heavy sheet material. 3,423,084, 1-21-69, Cl. 271-29.
Konazewski, William: *See—*
Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William,3,453,804.
Koncsics, David M.; and Whitmore, Bruce C., to Bethlehem Steel Corporation. Distributor for continuous casting machine. 3,467,284, 9-16-69, Cl. 222-166.
Kondo, Fumio: *See—*
Saeki, Hideo; and Kondo, Fumio,3,445,731.
Kondo, Gisaburo. Grind stone head vibrating device of superfinishing machine. 3,457,680, 7-29-69, Cl. 51-59.

Kondo, Hideo; Tsuji, Nobuo; Nishio, Fumihiko; and Mizuki, Eiichi, to Fuji Shashin Film Kabushiki Kaisha. Color turbidity agent in color photographic materials. 3,449,123, 6-10-69, Cl. 96-100.
Kondo, Katsutoshi: *See*—
Tsuruga, Masanori; Murakami, Shogo; Kondo, Katsutoshi; Akabane, Shunei; Washikita, Kenji; and Koshino, Tameo,3,478,101.
Kondo, Masaru, to Nippon Gakki Seizo Kabushiki Kaisha. Pin and rail assembly. 3,456,545, 7-22-69, Cl. 84-435.
Kondo, Masayuki: *See*—
Osawa, Hideo; Sakamoto, Yosio; and Kondo, Masayuki,3,477,291.
Kondo, Masukichi. Impeller having a centrifugal fluid handling means having steadily curving vanes. 3,440,969, 4-29-69, Cl. 103-115.
Kondo, Mitsutora: *See*—
Hayashi, Takashi; Kondo, Mitsutora; and Tanaka, Michio,3,420,876.
Kondo, Nakataro: *See*—
Nakaguchi, Kohei; Arai, Hirokazu; Kondo, Nakataro; and Manabe, Kuniyoshi,3,465,035.
Kondo, Shigekatsu: *See*—
Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Masao; Manabe, Mitsuyoshi; and Kondo, Shigekatsu,3,438,868.
Kondo, Shiro; Shiranezawa, Takao; Iida, Hirohiko; and Takahashi, Masayuki, to Teijin Limited. Production of fancy yarn. 3,482,389, 12-9-69, Cl. 57-157.
Kondo, Susumu: *See*—
Hasegawa, Noboru; Ishikawa, Nobuo; and Kondo, Susumu,3,463,751.
Kondo, Takeichi; Kato, Yoshimi; and Muramatsu, Yasunori, to Toyoda Machine Works, Ltd. Pressure sensitive device incorporating semiconductor transducer. 3,482,197, 12-2-69, Cl. 338-4.
Kondo, Yasuhiko: *See*—
Sumi, Hiroji; Takahi, Yukiyoshi; Kondo, Yasuhiko; Hamamoto, Yoshio; and Nishimura, Tsunehiko,3,426,135.
Kondolf, Karl Q., to Schlegel Manufacturing Company, The. Window glass frame and guide. 3,420,002, 1-7-69, Cl. 49-440.
Kondtratieva, Nina Nikolaevna: *See*—
Yakovich, Ninel Iosifovna; Khcheyan, Khachik Egorovich; Izrael, Larisa Borisovna; Pavlichev, Alexei Fedorovich; and Kondtratieva, Nina Nikolaevna,3,439,059.
Kondur, Nicholas, Jr., to Burroughs Corporation. High speed serial printer. 3,472,352, 10-14-69, Cl. 197-49.
Konecky, Milton S., to Esso Research and Engineering Company. Decahydroacenaphthene process and use. 3,450,781, 6-17-69, Cl. 260-666.
Konefal, Robert S., to Improved Machinery Inc. Sealing assemblies for containers. 3,465,923, 9-9-69, Cl. 222-498.
Konermann, Hans-Ewald: *See*—
Buning, Robert; Diessel, Karl-Heinz; and Konermann, Hans-Ewald,3,462,402.
Buning, Robert; Konermann, Hans-Ewald; Diessel, Karl-Heinz; and Bier, Gerhard,3,459,692.
Hass, Karl; Kohlgagen, Walter; Czehovsky, Gunther; and Konermann, Hans-Ewald,3,436,324.
Konet, Henry: *See*—
Owens, Fred J.; and Konet, Henry,3,455,030.
Kong, Arthur, to Celanese Corporation. Bonding of oxymethylene polymer to aluminum. 3,455,746, 7-15-69, Cl. 148-6.15
Kong, Arthur, to Celanese Corporation. Method of coating with an oxymethylene polymer. 3,481,756, 12-2-69, Cl. 117-21.
Kongpricha, Santad, to Olin Mathieson Chemical Corporation. Tri (phenyl or alkyl) phosphazosulfuryl fluorides and their preparation. 3,445,513, 5-20-69, Cl. 260-543.
Kongpricha, Santad: *See*—
Gambardella, Mario A.; Jache, Albert W.; and Kongpricha, Santad,3,446,592.
Jache, Albert W.; Kongpricha, Santad; and Pitts, James J.,3,451,775.
Konig, Fritz, to Montblanc-Simplo G.m.b.H. Screw type filling mechanism for fountain pens. 3,453,057, 7-1-69, Cl. 401-172.
Konig, Fritz, to Montblanc-Simplo G.m.b.H. Writing instrument. 3,467,476, 9-16-69, Cl. 401-244.
Konig, Georg: *See*—
Sack, Ernst Theodor; and Konig, Georg,3,455,435.
Konig, Gerhard: *See*—
Tauchert, Klaus; Munster, Horst; Hettich, Bernhard; Konig, Gerhard; Hofheinz, Karlheinz; and Kade, Peter,3,482,511.
Konig, Hans-Joachim; Bodenstedt, Wolfgang; and Gotsmann, Ulrich, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of chipboards. 3,442,999, 5-6-69, Cl. 264-128.
Konig, Johann: *See*—
Ruschig, Heinrich; Konig, Johann; and Duwel, Dieter,3,449,420.
Konigs, Heinz: *See*—
Haberhauer, Karl; and Konigs, Heinz,3,450,168.
Konigsberg, Ephraim, to Whittaker Corporation, mesne. Differential pressure transducer. 3,427,885, 2-18-69, Cl. 73-398.
Konigsdorf, Wolfgang: *See*—
Hack, Arthur W.; and Konigsdorf, Wolfgang,3,480,447.
Koning, Menno G., to Mohawk Data Sciences Corporation. Fan-folded paper stacker. 3,464,610, 9-2-69, Cl. 226-43.
Koning, Simon J.: *See*—
Nagelkirk, Preston; and Koning, Simon J.,3,439,812.
Koninklijke Industrieele Maatschappij Noury & van der Lande N.V.: *See*—
Gerritsen, Hans Giovanni; and Hansma, Hendrik, 3,449,275.
Gulpen, Nicolaas Joseph H.; and Gerritsen, Hans G., 3,431,247.
Maltha, Pieter R. A.; and Tijssen, Stephanus B., 3,433,825.
Overmars, Henricus Gerardus Josef, 3,427,263.
Schroeder, Arnold; and Nieuwenhuis, Paulus G. J., 3,476,704.
Stahl, Dieter; Strolenberg, Otto Karel; and Damen, Leonardus W. J., 3,476,723.
Tijssen, Stephanus B.; and Gerritsen, Hans G., 3,472,901.
Koninklijke Maatschappij Tot het Uitvoeren van Openbare Werken Adriaan Volker N.V.: *See*—
Pot, Hendrik; and Van Baardewijk, Adam Pieter Hendrik, 3,460,692.
Koninklijke Nederlandsche Gist: *See*—
van der Waard, Willem Frederik; and de Flines, Jan, 3,431,173.
Koninklijke Nederlandsche Gist- & Spiritusfabriek N.V.: *See*—
de Flines, Jan; and van der Waard, Willem Frederik, 3,472,736.
Marx Arthur Friedich; and Van der Waard, Willem Frederik, 3,466,279.
Marx, Arthur Friedrich; and Wieriks, Jacob, 3,485,825.
Koninklijke Textielfabrieken Nijverdal-Ten Cate N.V.: *See*—
Benedict, Janos, 3,421,705.
Koninklijke Verkade Fabrieken N.V.: *See*—
Seeder, Wilhelm A.; and van Zijl, Franciscus H., 3,444,826.
Koninklijke Zwavelzuurfabrieken Voorheen Ketjen N.V.: *See*—
Maat, Hendrik J.; and Ebregt, Johannes, 3,445,189.
Mathies, Hans, 3,464,928.
Konishi, Akio: *See*—
Mayumi, Kanji; Yamaki, Kiyoshi; Konishi, Akio; Suzuki, Shigeyuki; and Kiyama, Soji,3,428,482.
Konishi, Hikoichi; Harada, Yuichi; Sunahara, Tamotsu; Sakaguchi, Yasuhiro; and Ishihara, Tetsuo, to Daicel Ltd. Process for coating polyolefinic films to make them heat-sealable and gas and water-vapor impermeable. 3,459,591, 8-5-69, Cl. 117-138.8
Konishi, Kazuo: *See*—
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo,3,444,186.
Konishi, Masaichiro, to Minolta Camera Kabushiki Kaisha. Photoelectric exposure meter having a segmented photoresistor for subjects of varying brightness. 3,428,403, 2-18-69, Cl. 356-222.
Konishi, Masaichiro: *See*—
Yoshiyama, Ichiro; and Konishi, Masaichiro,3,435,747.
Konishiroku Photo Industry Co., Ltd.: *See*—
Amemiya, Kinya; and Endo, Koichi, 3,481,670.
Doi, Tatsumi; Mineshima, Teruo; and Saito, Etsuro, 3,480,361.
Koda, Kenichi; Sato, Shui; Shoono, Masayuki; and Hori, Haruo, 3,457,079.
Nakamura, Ken; Shibata, Toshio; and Shimazu, Yasuyuki, 3,464,680.
Sato, Shui; Sakamoto, Eiichi; and Sakurai, Setsuji, 3,475,174.
Shibata, Toshio; and Shimazu, Yasuyuki, 3,462,580.
Konita, Takeshi: *See*—
Kijima, Shizumasa; and Konita, Takeshi,3,432,525.
Konkel, John A.; and Joy, Frederick A., to Radio Corporation of America. Hue adjust circuit for a color television receiver. 3,436,470, 4-1-69, Cl. 178-5.4
Konkel, John A.: *See*—
Slusarski, John F.; and Konkel, John A.,3,461,234.
Konkle, Raymond L., to Central Steel Tube Company. Hydro-pneumatic system. 3,447,319, 6-3-69, Cl. 60-51.
Konnerth, Karl L., Jr., to International Business Machines Corporation. Optical pulse communication and ranging system by amplitude modulating laser injection source and detecting optical pulse width. 3,483,383, 12-9-69, Cl. 136-6.
Konno, Kiyoaki, to Tokyo Tokei Seizo Kabushiki Kaisha. Winding-up device for the drive spring of an electric clock. 3,455,103, 7-15-69, Cl. 58-41.
Konno, Tsuyoshi: *See*—
Katagiri, Hiroshi; and Konno, Tsuyoshi,3,439,220.
Kono, Minoru: *See*—
Sugiura, Shotaro; Tasaka, Fumio; Ueno, Haruo; Kono, Minoru; Katagiri, Nobuyuki; and Sakinaga, Nobumasa,3,459,726.
Kono, Mototsugu: *See*—
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro,3,449,196.
Kono, Seki: *See*—
Teshi, Haruo; and Kono, Seki,3,439,980.
Kono, Shigeharu; and Sugiyama, Kunishige, to Eisai Kabushiki Kaisha. Rutin tri(dihydroxypropyl)ethers. 3,444,211, 5-13-69, Cl. 260-345.2
Kono, Yuichi; Matsumoto, Shigeru; and Yoshikawa, Masaru, to Fuji Shashin Film Kabushiki Kaisha. Apparatus for producing hydroquinone. 3,432,273, 3-11-69, Cl. 23-263.

Konold, Armin, to International Standard Electric Corporation. Circuit arrangement for power supply and for a controlled frequency-modulated operation of a sub-assembly. 3,467,778, 9-16-69, Cl. 179-1.
Kononenko, Vadim Grigorievich: *See—*
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.
Konopacki, Julian J. Apparatus for releasing auto door latches. 3,438,290, 4-15-69, Cl. 81-3.
Konoplev, Jury Sergeevich: *See—*
Shonin, Leonid Nikolaevich; Konoplev, Jury Sergeevich; Komarov, Jury Alexandrovich; Ivanov, Igor Nikolaevich; Silin, Mikhail Danilovich; Veyalis, Nina Petrovna, and; and Karpinskaya, Vera Borisovna,3,443,432.
Konovalov, Vladimir Pavlovich; Krylov, Nickolai Ivanovich; Popov, Boris Vasilievich; and Rudakov, May Mikhailovich, to Vsesojuzny Nauchno-Issledovatelsky i Proektno- Konsturktorsky Institute metallurgicheskogo mashinostroenija. Cutting elements of flying shears. 3,466,961, 9-16-69, Cl. 83-694.
Konrad Corporation: *See—*
Soffer, Bernard H.; and Winer, Irvin M., 3,483,747.
Konrad, Howard Edwin; and Speil, Sidney, to Johns-Manville Corporation. Inorganic fiber riser sleeves. 3,456,914, 7-22-69, Cl. 249-201.
Konrad, Marion G.: *See—*
Erickson, John W.; Konrad, Marion G.; and McCloud, James,3,464,369.
Konrat, Jean Paul: *See—*
Boileau, Jacques; Desseigne, Gerard; and Konrat, Jean Paul,3,466,205.
Konsonlas, John: *See—*
Waltrip, Owen R., 3,480,529.
Konstant, Anthony N., to Speedrack Inc. Column structure. 3,475,044, 10-28-69, Cl. 287-189.36
Kontes Glass Company: *See—*
Petty, Richard, 3,476,671.
Konto Dyeing & Finishing Co., Ltd.: *See—*
Inada, Toichiro, 3,483,720.
Konus-Kessel Gesellschaft fur Warmetechnik m.b.H. & Co. K. G.: *See—*
Sander, Wolfgang, 3,432,247.
Konyaev, Jury Sergeevich: *See—*
Vereschagin, Leonid Fedorovich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; and Surkov, Ivan Efimovich,3,446,427.
Koo, Charles M. C.; Pattison, Thomas W.; and Herbst, David R., to American Home Products Corporation. Certain 1-acyl derivatives of 7-alkoxy-2,3,4,5- tetrahydro-1H-1-benzazepine. 3,458,498, 7-29-69, Cl. 260-239.
Koo, Jack C. T.: *See—*
Cannon, Ernest W.; and Byrens, David W., 3,463,218.
Koo, James T., to Bell Telephone Laboratories, Incorporated. Technique for anodization of thin film resistors. 3,481,843, 12-2-69, Cl. 204-38.
Koo, James T.; Tabor, William J.; and Varnerin, Lawrence J., Jr., to Bell Telephone Laboratories, Incorporated. Magnetic logic circuits. 3,454,938, 7-8-69, Cl. 340-174.
Koo, Raymond H.: *See—*
Michener, Aubrey W., Jr.; Carlson, Emery J.; and Koo, Raymond H.,3,479,136.
Koo, Ronald C., to Westinghouse Electric Corporation. Tungsten-base alloy and filament. 3,443,143, 5-6-69, Cl. 313-311.
Kooch, George, to Scriptomatic, Inc. Drive means for duplicating apparatus using master cards. 3,444,807, 5-20-69, Cl. 101-53.
Kooi, Cornelis Marius; and Louissen, Antienus, to N.V. Koninklijke Nederlandsche Zoutindustrie. Method of electrolysing manganous chloride in a diaphragm cell. 3,477,925, 11-11-69, Cl. 204-105.
Kooi, Earl R.: *See—*
Armbruster, Frederick C.; and Kooi, Earl R.,3,425,910.
Kookootsedes, Gust J., to Dow Corning Corporation. Latent catalyst containing platinum and sulfoxide. 3,453,234, 7-1-69, Cl. 260-46.5
Kookootsedes, Gust J.; and Plueddemann, Edwin P., to Dow Corning Corporation. Acetylenic inhibited platinum catalyzed organopolysiloxane composition. 3,445,420, 5-20-69, Cl. 260-37.
Kool, Gerrit, to U.S. Philips Corporation, mesne. Circuit arrangement for use in a television receiver for dynamic radial convergence in rhythm or the field frequency. 3,447,025, 5-27-69, Cl. 315-13.
Koon, William R. Foldable trailer. 3,463,538, 8-26-69, Cl. 296-23.
Koonce, Kenneth T., to Esso Production Research Company. Well servicing. 3,422,895, 1-21-69, Cl. 166-79.
Koono, Zenya: *See—*
Inose, Hiroshi; and Koono, Zenya,3,435,149.
Koons, David S., to Mobil Oil Corporation. Recovering oil by cyclic steam injection combined with hot water drive. 3,421,583, 1-14-69, Cl. 166-10.
Koons, Paul A.: *See—*
Millen, Edward G.; and Koons, Paul A.,3,487,052.
Koons, Russell E., to Monsanto Company. Method of using improved asphaltic adhesive. 3,447,991, 6-3-69, Cl. 156-337.
Koontz, Donald E.: *See—*
Babusci, Louis D.; Cretella, Biagio A.; Feder, David O.; and Koontz, Donald E.,3,434,883.
Kooperativa Forbundet Ekonomisk Forening: *See—*
Agdur, Nils Bertil; Sellberg, Florian; Boling, Kurt Goran Rafael; and Ohman, Karl Yngve, 3,468,006.
Koopman, Francis C.; and Kunkle, J. L., to United States of America, Interior. Reference and glass electrodes capable of withstanding high pressures. 3,463,717, 8-26-69, Cl. 204-195.
Koopman, Harmannus, to North American Philips Company, Inc. 0-(2-Guanidino-ethyl)-oximes and the salts thereof. 3,429,919, 2-25-69, Cl. 260-564.
Koor Industries and Crafts Co. Ltd.: *See—*
Jacobson, Amnon, 3,465,846.
Koorneef, Jacob: *See—*
Bos, Jules; Koorneef, Jacob; and Walther, George Ludwig,3,485,958.
Walther, George Ludwig; Koorneef, Jacob; and Bos, Jules,3,474,528.
Koornwinder, Dirk W.; and McCormick, William F. Baby-dry-girdle. 3,424,160, 1-28-69, Cl. 128-286.
Koors, Carl William: *See—*
Graf, Raymond John; and Koors, Carl William,3,460,202.
Koos, Ronald E.: *See—*
Parker, Winfred E.; and Koos, Ronald E.,3,423,319.
Koot, Nick: *See—*
Crooke, Robert Curtis; and Koot, Nick,3,426,855.
Koot, Nick, to Global Marine, Inc. Kelly and drill pipe spinner-stabber. 3,477,527, 11-11-69, Cl. 175-85.
Koot, Nick; and Nold, Robert W., to Global Marine, Inc. Method and apparatus for undersea mining. 3,433,531, 3-18-69, Cl. 299-8.
Kooy, Cornelis; Munk, Enno Coert; and Rem, Piet Hein, to U.S. Philips Company Inc., mesne. Stable resistance films of Ni-Cr. 3,472,691, 10-14-69, Cl. 117-217.
Kopacki, Adam F., to Stauffer Chemical Company. Polymer compositions containing sulfur and process for preparing same. 3,450,667, 6-17-69, Cl. 260-41.
Kopacki, Adam F.; and Horodecky, Jerry, to Stauffer Chemical Company. Stabilized plastic compositions containing an Ultraviolet absorbing compound and an organophos- phorus sulfide. 3,424,715, 1-28-69, Cl. 260-45.9
Kopacki, Adam F.: *See—*
Kezerian, Charles; Wallace, Edwin G.; and Kopacki, Adam F.,3,433,762.
Kopaska, Arnold F. Hydraulic coupler. 3,431,942, 3-11-69, Cl. 137-614.05
Kopaska, Larry A. Coupling device. 3,477,468, 11-11-69, Cl. 137-614.05
Kopat Gesellschaft fur Konstruktion, Entwicklung und Patentverwertung m.b.H. & Co. KG.: *See—*
Ritter, Kaspar, 3,424,032.
Kopco Industries: *See—*
Koppius, Otto G., 3,484,925.
Kopczynski, John F. Spindle mount for rotary and axially moving tool. 3,453,898, 7-8-69, Cl. 74-109.
Kopczynski, John F. Fluid displacement device and means to subject said fluid to a magnetic field. 3,456,184, 7-15-69, Cl. 324-34.
Kopel, LeRoy A., to Hewlett-Packard Company. Method of producing ultrasonic energy absorbing material. 3,487,137, 12-30-69, Cl. 264-111.
Kopelman, Bernard; and Shimer, Robert M., to Sylvania Electric Products Inc. Lamp base. 3,431,540, 3-4-69, Cl. 339-112.
Kopetski, Frederick J., to United States of America, National Aeronautics and Space Administration. Ring counter. 3,437,832, 4-8-69, Cl. 307-222.
Kopf, Marcel Georges: *See—*
Schmitt, Walter Peter; and Kopf, Marcel Georges,3,452,148.
Kopjas, Tibor L. Method of treatment for effecting vasodilation of the small arteries in human beings. 3,463,854, 8-26-69, Cl. 424-251.
Koplar, Solomon Edward: *See—*
Hancock, John L.; and Koplar, Solomon Edward, 3,434,279.
Koplar, Solomon Edward: *See—*
Hancock, John L.; and Koplar, Solomon Edward,3,434,279.
Koponen, Tauno. Heat exchanger. 3,438,436, 4-15-69, Cl. 165-183.
Kopp, Erwin: *See—*
Hafner, Walter; Kopp, Erwin; and Milles, Karl,3,457,353.
Hafner, Walter; Milles, Karl; and Kopp, Erwin,3,457,352.
Kopp, Gerhard: *See—*
Broll, Gunter; and Kopp, Gerhard,3,467,315.
Kopp, Gerhard, to Entwicklungsring Sud G.m.b.H. Dual drive for swiveling nozzles. 3,450,348, 6-17-69, Cl. 239-265.11
Kopp, Gerhard, to Entiwicklungsring Sud GmbH. Automatic heat compensator for antifriction bearings. 3,459,460, 8-5-69, Cl. 308-207.
Kopp, Gerhard, to Entwicklungsring Sud GmbH. Variable-area nozzle. 3,460,763, 8-12-69, Cl. 239-265.43

Kopp, Gerhard; and Madelung, Gero Otto, to Entwicklungsring Sud G.m.b.H. Swivelable jet nozzle, intended especially for vertical take-off and short take-off planes. 3,443,758, 5-13-69, Cl. 239-265.35
Kopp, Hans W.: *See*—
Garver, Oscar W.; Ullman, Frederick E.; Stettler, Christian H.; and Kopp, Hans W.,3,427,426.
Kopp, Harold W., to Halko, Inc. Football kick training apparatus. 3,439,916, 4-22-69, Cl. 273-55.
Kopp, Manfred K.: *See*—
Borkowski, Casimer J.; and Kopp, Manfred K.,3,483,377.
Koppanyi, Theodore F., to Robins, A. H., Company, Incorporated. Compositions and methods for the control of cardiac arrhythmia with O-substituted pyrrolidinols and S-substituted thiopyrrolidinols. 3,446,897, 5-27-69, Cl. 424-274.
Koppe, Herbert: *See*—
Stahle, Helmut; Koppe, Herbert; Zeile, Karl; Wolf, Martin; and Hoefke, Wolfgang,3,462,433.
Stahle, Helmut; Kummer, Werner; Koppe, Herbert; Zeile, Karl; Hoefke, Wolfgang; and Samtleben, Hans-Wolfgang,3,480,630.
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeille, Karl, to Boehringer Ingelheim, G.m.b.H. 1-Substituted phenoxy-2-hydroxy-3- isopropylamino-propanes. 3,459,782, 8-5-69, Cl. 260-465.
Koppe, Herbert; Ludwig, Gerhard; and Zeile, Karl, to Boehringer Ingelheim G.m.b.H.1-(3',4'-Methylenedioxy-phenyl)-2-pyrrolidino-alkanones-(1). 3,478,050, 11-11-69, Cl. 260-326.5
Thoma, Otto; Koppe, Herbert; Mentrup, Anton; Zeile, Karl; and Ludwig, Gerhard,3,475,455.
Koppe, Rolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cooling system for the shell of a reactor. 3,469,624, 9-30-69, Cl. 165-105.
Koppehele, Paul H.: *See*—
Swickard, James L.; and Koppehele, Paul H.,3,477,098.
Koppel, Harold H., to Bailey Meter Company. Arrangement for bumpless transfer of a servo control system from automatic to manual and vice versa. 3,422,457, 1-14-69, Cl. 318-28.
Koppel, Harold H., to Bailey Meter Company. Bumpless transfer system for multidrive control. 3,436,557, 4-1-69, Cl. 307-87.
Koppel, Harold H.: *See*—
Hornfeck, Anthony J.; Koppel, Harold H.; and Louis, John R.,3,479,492.
Koppelman, Irvin Jerome. Napkin and condiment holder. 3,442,393, 5-6-69, Cl. 211-13.
Koppelmann, Eldo K., to Madison Industries, Inc. Recessing tool. 3,477,319, 11-11-69, Cl. 82-1.
Koppelmann, Floris, to Licentia Patent-Verwaltungs-G.m.b.H. Reactive power supply using inverter circuits. 3,444,450, 5-13-69, Cl. 318-227.
Koppelmann, Floris, to Licentia Patent-Verwaltungs-G.m.b.H. Circuit arrangement for compensating reactive loads. 3,449,653, 6-10-69, Cl. 318-227.
Koppelmann, Floris, to Licentia Patent-Verwaltungs-G.m.b.H. Electrical distribution and control system. 3,461,366, 8-12-69, Cl. 318-107.
Koppelmann, Floris; Hausler, Michael; and Knuth, Detlef, to Licentia Patent-Verwaltungs-G.m.b.H. Circuit for balancing an unsymmetrically loaded polyphase net. 3,450,983, 6-17-69, Cl. 323-119.
Koppelmans, Leonardus Aloisius. Carpet stretcher. 3,441,252, 4-29-69, Cl. 254-61.
Koppensteiner, Alfred H., to Bell & Howell Company. Stabilized offset lens system. 3,424,521, 1-28-69, Cl. 352-140.
Koppers Company, Inc.: *See*—
Ackeren, Joseph Van, 3,433,714.
Baum, Melvin E., 3,431,319.
Baum, Melvin E.; Fekete, Frank; and Hatton, John A., 3,431,320.
Baum, Thedore M., 3,420,387.
Bescher, Ralph H., 3,482,363.
Boggs, Le Roy R., 3,438,089.
Boggs, Le Roy R., 3,448,489.
Buzbee, Lloyd R.; and Ecke, George G., 3,433,812.
Calistrat, Mircea, 3,447,696.
Calistrat, Mircea, 3,476,380.
Ciochetto, Joseph J., 3,480,266.
Cromwell, John E.; and Robson, Arthur G., 3,421,972.
Demers, Harlan J., 3,423,899.
Denig, Fred; and Powers, Robert E., 3,480,427.
Detrick, Robert S.; and Gillespie, Gerald J., 3,449,152.
Drenning, John W.; and Thomas, John B., 3,443,358.
Drenning, John W., 3,443,361.
Dressler, Hans; and Reabe, Kenneth G., 3,452,075.
Easton, Rufus; and Haussner, Theodor H. W., 3,455,370.
Fekete, Frank; and Baum, Melvin E., 3,465,061.
Glaeser, Melvin L.; and Wilson, Earl L., 3,483,669.
Greco, Nicholas P.; and Pennino, Charles J., 3,444,135.
Greco, Nicholas P., 3,444,193.
Greco, Nicholas P., 3,462,497.
Gregord, Thomas; and Kania, Robert Charles, 3,480,267.
Guziak, Leonard F., 3,484,395.
Harlow, Earl V., 3,444,046.
Hartzell, Harry F., Jr., 3,448,868.
Hartzell, Harry F., Jr., 3,464,481.
Kinzler, Raymond C.; and Nestler, Gilbert C., 3,480,514.
Kolka, Alfred; Tai, Wun T.; and Mult, Roy H., 3,462,382.
Leston, Gerd, 3,452,104.
Leston, Gerd, 3,470,259.
Maltenfort, Martin S., 3,438,919.
Medney, Jonas, 3,449,484.
Medney, Jonas, 3,471,322.
Morita, Yoshio; Watanabe, Takaji; Suzuki, Hisao; and Kawamura, Junji, 3,459,573.
Moult, Roy H.; and Hood, Richard T., 3,431,241.
Moult, Roy H., 3,437,610.
Parisse, Louis L., 3,483,094.
Poms, Allan I., 3,462,339.
Ponemon, Warren E., 3,446,385.
Quintilian, Bartholomew F.; and Zarfoss, James R., 3,483,670.
Richards, Edwin Robinson, 3,439,909.
Rudner, Bernard; and Brumfield, Philip E., 3,424,720.
Stanke, Walter, 3,448,475.
Stanke, Walter; and Mertens, Gottfried, 3,464,074.
Stewart, Warren A., 3,425,610.
Stewart, Warren A., 3,432,974.
Tatterson, Benjamin F., 3,464,894.
Tucker, Linwood G., 3,432,400.
Tucker, Linwood G., 3,433,716.
Tucker, Linwood G., Jr.; and Rokop, Joseph, 3,440,145.
Van Ackeren, Joseph, 3,433,715.
Van Der Heem, Peter, 3,424,677.
Voris, William H., 3,462,293.
Wright, Harold A., 3,456,022.
Koppers, Heinrich, Gesellschaft mit beschrankter Haftung: *See*—
Lorrek, Johannes, 3,436,316.
Luther, Guenter; Schulze, Martin; and Richter, Klaus, 3,434,936.
Luther, Gunter; Ludwig, Jurgen; and Schulze, Martin, 3,445,537.
Koppers, Manfred, to Rheinstahl Wanheim G.m.b.H. Multistage hydraulic mine prop. 3,426,649, 2-11-69, Cl. 91-173.
Koppers, Manfred: *See*—
Wilkenloh, Wilhelm; and Koppers, Manfred,3,474,628.
Wilkenloh, Wilhelm; and Koppers, Manfred,3,484,071.
Koppers-Wistra Ofenbau G.m.b.H.: *See*—
Krause, Wilhelm, 3,434,702.
Koppers-Wistra-Ofenbau GmbH: *See*—
Krause, Wilhelm, 3,480,264.
Sitte, Richard; and Willems, Gunter, 3,480,375.
Koppisch, Heinz Juergen. Winding jig. 3,445,072, 5-20-69, Cl. 242-7.21
Koppius, Otto G., 15% to Ebert, Michael. Secondary emission cathode or dynode of a porous matrix of tungsten or molybdenum impregnated with secondary emission material such as a tungstate or an alkali halide of calcium. 3,459,986, 8-5-69, Cl. 313-346.
Koppius, Otto G., 85% to Kopco Industries, and 15% to Ebert, Michael. Fluid compression technique for molding EDM electrodes and other tungsten-based components. 3,484,925, 12-23-69, Cl. 29-420.5
Koppl, Georg; and Sanders, Mathias, to Aktiengesellschaft Brown, Boveri & Cie. Spark gaps for incorporation in enclosures containing gas under pressure. 3,443,142, 5-6-69, Cl. 313-182.
Koppy Tool Corporation: *See*—
De Gain, William J., 3,459,079.
De Gain, William J., 3,469,295.
Kops Bros., Inc.: *See*—
Zucker, Murray, 3,464,417.
Kopsch, Reiner: *See*—
Neurath, Georg; Kopsch, Reiner; and Raban, Joachim,3,424,172.
Kopsch, Ulrich Carl Werner: *See*—
Brown, Joseph Horsefield; and Kopsch, Ulrich Carl Werner,3,444,252.
Kopsidas, Robert K.: *See*—
Spencer, Joel V.; and Kopsidas, Robert K.,3,440,347.
Kopy, Alfred A., to Posa-Cut Corporation. Cutting tool. 3,436,799, 4-8-69, Cl. 29-96.
Kopydlowski, Donald J.: *See*—
Houle, Tim H.; and Kopydlowski, Donald J.,3,484,020.
Kor-it Company, Inc., The: *See*—
Achelis, Frederic; Brown, Roy J.; Sherman, Roger M.; and Bibb, William M., 3,461,750.
Brown, Roy J., 3,461,825.
Brown, Roy J., 3,485,421.
Korad Corporation: *See*—
Buchman, William W., 3,437,953.
Koral, Jerry Norman, to American Cyanamid Company. Electrodeposition of aqueous coatings containing etherified methylolated melamine. 3,471,388, 10-7-69, Cl. 204-181.
Koral, Jerry Norman; and Petropoulos, John Christos, to American Cyanamid Company. Coating composition comprising a blend of the react- ion product of a highly methylated hexamethylol mel-

amine with a free hydroxyl group containing copoly- mer blended with a glyceride oil modified alkyd resin or certain acrylic terpolymers. 3,451,955, 6-24-69, Cl. 260-21.

Koral, Jerry Norman: *See—*
Petropoulos, John Christos; and Koral, Jerry Norman,3,422,076.

Korany, Frank: *See—*
Nelson, Merritt J.; and Korany, Frank,3,466,781.

Korbanka, Helmut; Tauber, Gunther; and Vollmann, Hansjorg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. High molecular weight terpolymers of maleic anhydride, ethylene and dicyclopentadiene. 3,442,872, 5-6-69, Cl. 260-78.5

Korber, Kurt. Driving arrangement for tobacco processing machines. 3,468,205, 9-23-69, Cl. 83-543.

Korber, Kurt; and Richter, Willy, said Richter assor. to said Korber. Apparatus for producing a tobacco rod. 3,422,820, 1-21-69, Cl. 131-66.

Korber, Ulrich: *See—*
Kellerer, Hermann; Weinfurter, Rudolf; Korber, Ulrich; and Voegtlen, Dieter,3,475,562.

Korchak, Ernest Ian: *See—*
Pell, Melvyn; and Korchak, Ernest Ian,3,439,001.
Golden, Richard L.; and Korchak, Ernest I.,3,424,806.

Korchak, Ernest I., to Halcon International, Inc. Dehydration of alpha methylbenzyl alcohol to styrene. 3,442,963, 5-6-69, Cl. 260-669.

Korchmar, Don I., to Leather Specialty Company, The. Accessory locking device for carrying case. 3,425,525, 2-4-69, Cl. 190-49.

Korchmar, Don I., to Leather Specialty Company, The. Carrying case and locking means therefor. 3,437,366, 4-8-69, Cl. 292-228.

Korczak, Alexander: *See—*
Langdon, William K.; and Korczak, Alexander,3,455,996.

Korczynski, Joseph E. Apparatus for pulling fence posts and the like. 3,479,012, 11-18-69, Cl. 254-132.

Korda, John W., to Leece-Neville Company, The. Electric generating system control. 3,470,455, 9-30-69, Cl. 322-28.

Kordesch, Karl V.: *See—*
Darland, William G., Jr.; Kordesch, Karl V.; and van Lier, Johannes A.,3,423,247.

Kordesch, Karl V., to Union Carbide Corporation. Fuel cell. 3,477,877, 11-11-69, Cl. 136-86.

Kordesch, Karl V.; and Yeager, John F., to Union Carbide Corporation. Current collection means for fuel cells. 3,423,243, 1-21-69, Cl. 136-86.

Kordik, Kenneth S.; Spannhake, Ernst W.; and Zaumseil, Dean R., to Bucyrus-Erie Company, mesne. Apparatus for control of adjustable speed A-C motors. 3,435,315, 3-25-69, Cl. 318-239.

Korecky, Allan J., to Barmatic Machines, Inc. Ball and socket joint. 3,423,115, 1-21-69, Cl. 287-90.

Korenbljum, Moisei Vladimirovich; and Otto, Mark Shmulievich. Device for eliminating short-circuits in erosion gap employed in transistor-type generators designed for feeding electro-erosion machines. 3,487,262, 12-30-69, Cl. 315-171.

Kores Manufacturing Corporation: *See—*
Strauss, Eugen; and Koreska, Wilhelm, 3,484,264.

Koreska, Wilhelm: *See—*
Strauss, Eugen; and Koreska, Wilhelm,3,484,264.

Koretzky, Herman: *See—*
Dunlap, William, Jr.; Koretzky, Herman; and Mc Cabe, Harry D.,3,446,657.

Koretzky, Herman, to International Business Machines Corporation. Magnetic cobalt and cobalt alloy plating bath and process. 3,423,214, 1-21-69, Cl. 106-1.

Koretzky, Herman, to International Business Machines Corporation. Method of increasing the deposition rate of electroless solutions. 3,485,725, 12-23-69, Cl. 204-38.

Koretzky, Herman; and Schmeckenbecher, Arnold F., to International Business Machines Corporation. Method and composition for depositing nickel-iron- boron magnetic films. 3,483,029, 12-9-69, Cl. 117-236.

Korf, Walter O.; and Roth, Kenneth A. Spare wheel holder. 3,428,230, 2-18-69, Cl. 224-42.06

Korf, Wilhelm Willy, to Ferrotest G.m.b.H. Injection molding device. 3,482,283, 12-9-69, Cl. 18-30.

Korf, Willy W., to Ferrotest G.m.b.H. Plastic connecting element for reinforcing or strengthening rods. 3,447,277, 6-3-69, Cl. 52-687.

Korff, Walter H. Land vehicle having minimum air drag. 3,425,741, 2-4-69, Cl. 296-1.

Korger, Gerhard: *See—*
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Korger, Gerhard,3,483,297.

Koriagin, Vsevolod B. Hydrotunnel boat. 3,424,120, 1-28-69, Cl. 114-67.

Korinek, Gordon G., to Vernco Corporation of Tennessee. Device for oiling bearings. 3,424,506, 1-28-69, Cl. 308-132.

Korinth, Jurgen: *See—*
Scherer, Otto; Korinth, Jurgen; and Rammelt, Peter-Paul,3,446,721.

Korityssky, Yakov Ilich: *See—*
Kuznetsov, Viktor Sergeevich; Belyaev, Evgeny Ivanovich; Tereschenko, Tatiana Petrovna; Pechnikov, Nikolai Alexandrovich; Tashilin, Vyacheslav Fedorovich; Korityssky, Yakov Ilich; and Korney, Igor Vladimirovich,3,438,191.

Korkowski, Vincent J.; Belcourt, Francis J.; and James, Raymond H., to Sperry Rand Corporation. Detector system and device. 3,427,601, 2-11-69, Cl. 340-174.

Korkowski, Vincent J.; Hewitt, Fred G.; and James, Raymond H., to Sperry Rand Corporation. Radiation hardened recording system. 3,432,819, 3-11-69, Cl. 340-174.

Korkowski, Vincent J.: *See—*
James, Raymond H.; Korkowski, Vincent J.; and Nistler, Philip J.,3,431,492.
Lundberg, Charles W.; Hewitt, Fred G.; James, Raymond H.; and Korkowski, Vincent J.,3,432,818.

Kormendy, Charles G., to Smith Kline & French Laboratories. Method for preventing rhinovirus infections with 3-(-3 hydroxy-3-methylbutylamino)-5-methyl- 5H as- triazino [5,6-b] indole. 3,444,298, 5-13-69, Cl. 424-249.

Kormendy, Charles G., to Smith Kline & French Laboratories. Method of preventing influenza viral infections. 3,444,302, 5-13-69, Cl. 424-325.

Kormer, Vitaly Abramovich: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Kormos, Kalman, to General Signal Corporation. Shutter control of illumination of photoelectric transducer within light-transmitting block. 3,463,931, 8-26-69, Cl. 250-231.

Korn, Donald L. Floating roof structure. 3,445,026, 5-20-69, Cl. 220-26.

Korn, Frederick: *See—*
Jewell, Wendell D.; Nevala, Lloyd A.; and Korn, Frederick,3,434,352.

Korn, Joel, to Telefunken Patentverwertungsgesellschaft m.b.H. Distance compensation control circuit. 3,460,039, 8-5-69, Cl. 325-2.

Korn, Roger A., to Allis-Chalmers Manufacturing Company. Synchronous switch circuit for reed relays. 3,457,432, 7-22-69, Cl. 307-133.

Kornbichler, Heinz; Ullrich, Walter; Mainka, Alfred; and Lohse, Karl-Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Reactors. 3,467,578, 9-16-69, Cl. 176-61.

Kornblau, Sol, to Shore Instrument & Mfg., Company, Inc., The. Durometer. 3,485,091, 12-23-69, Cl. 73-81.

Korner, Hermann: *See—*
Linden, Gerbert; Schicke, Peter; and Korner, Hermann,3,462,258.

Korner, Klaus: *See—*
Heidrich, Walter; and Korner, Klaus,3,432,580.

Korner, Konrad: *See—*
Schlor, Karl; and Korner, Konrad,3,485,537.

Korner, Renzo L.; and Patel, Himanshu M., to Westinghouse Electric Corporation. Method and apparatus for applying a fluid coating. 3,467,059, 9-16-69, Cl. 118-53.

Korney, Igor Vladimirovich: *See—*
Kuznetsov, Viktor Sergeevich; Belyaev, Evgeny Ivanovich; Tereschenko, Tatiana Petrovna; Pechnikov, Nikolai Alexandrovich; Tashilin, Vyacheslav Fedorovich; Korityssky, Yakov Ilich; and Korney, Igor Vladimirovich,3,438,191.

Kornfeld, Edmund C.: *See—*
Gorman, Marvin; and Kornfeld, Edmund C.,3,422,112.

Kornfeldt, Per: *See—*
Flodin, Per Gustaf Magnus; Kornfeldt, Per; Okamura, Seizo; and Higashimura, Toshinobu,3,442,862.

Kornhauser, Daniel W., to P & F Industries, Inc., mesne. Apparatus and method for template cutting. 3,453,933, 7-8-69, Cl. 90-13.1

Kornicker, Walter A., to Monsanto Company. Electrolytic polymerization process for preparing polymers of acetylenic compounds containing nickel. 3,474,012, 10-21-69, Cl. 204-59.

Kornlein, Max: *See—*
Nahm, Helmut; Oppermann, Adolf; Hoffmann, Hinrich; Kornlein, Max; and Oppinger, Heinz,3,461,116.

Kornovich, Daniel W.; and Zellmer, Walter C., to Lectra Power, Inc. Trailer jack. 3,458,173, 7-29-69, Cl. 254-86.

Kornyey, Tamas: *See—*
Szucs, Laszlo; Tarnadi, Csaba; and Kornyey, Tamas,3,446,189.

Kornylak, Andrew T. Rollerway and roller therefor. 3,443,674, 5-13-69, Cl. 193-37.

Korobochkin, Iosif Julievich: *See—*
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Ev-

genievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.
Korobov, Yakov Vasilievich: *See—*
Rusanovich, Nikolai Grigorievich; Dmitriev, Ivan Sergeevich; Korobov, Yakov Vasilievich; Volfenzon, Shmul Ovshievich; Kostin, Boris Jurievich; Zaichik, Evegeny Bentsionovich; and Emelyanov, Vasily Semenovich,3,450,376.
Korobuk, S., Limited: *See—*
Draper, Albert E., 3,447,808.
Draper, Albert E., 3,468,547.
Korodi, Miklos, to General American Transportation Corporation. Freight transportation systems provided with side transfer facilities for various length containers. 3,439,820, 4-22-69, Cl. 214-516.
Korodi, Miklos, to General American Transportation Corporation. Freight containers provided with detachable end bolsters. 3,439,822, 4-22-69, Cl. 214-516.
Korolick, Samuel R.; Barron, Edward R.; James, Peter; and Carlucci, Michael P., to United States of America, Army. Torso armor carrier. 3,452,362, 7-1-69, Cl. 2-2.5
Koroly, Joseph E.: *See—*
Beavers, Ellington M.; and Koroly, Joseph E.,3,448,125.
Korona Kogyo Co., Ltd.: *See—*
Inagaki, Shirokichi, 3,443,877.
Koroncai, Adam: *See—*
Rinck, Cornelis Ludwig; and Koroncai, Adam,3,421,214.
Korones, Herbert D.: *See—*
Benford, James R.; and Korones, Herbert D.,3,433,552.
Koros, Leslie L.: *See—*
Clark, Raymond N.; Duris, Milan W.; and Koros, Leslie L., deceased,3,466,497.
Korostelev, Jury Alexandrovich: *See—*
Zablotsky, Igor Evgenievich; Korostelev, Jury Alexandrovich; Lebedev, Anatoly Vasilievich; Sviblov, Lev Borisovich; and Tolchinsky, Efim Moiseevich,3,467,358.
Korovkin, Anatoly Grigorievich. diametral fan. 3,481,530, 12-2-69, Cl. 230-125.
Korpak, Charles: *See—*
Hohl, Willard R.; and Korpak, Charles,3,459,541.
Korpel, Adrianus, to Zenith Radio Corporation. Light-sound interaction system with acoustic beam steering. 3,424,906, 1-28-69, Cl. 250-199.
Korpiun, Joachim; and Steeg, Hans Joachim, to Schlotter, Max, Dr. Ing. Electrodeposition of bright silver. 3,446,716, 5-27-69, Cl. 204-46.
Korpman, Ralf, to Johnson & Johnson. Agglutinant. 3,455,859, 7-15-69, Cl. 260-25.
Korpman, Ralf, to Johnson & Johnson. Method of unifying bibulous papers. 3,483,017, 12-9-69, Cl. 117-68.
Korr, Abraham L. Self-powered timing system for space vehicles. 3,447,384, 6-3-69, Cl. 74-3.5
Korry Manufacturing Co.: *See—*
Amis, James W., Jr.; and Dobson, James B., 3,436,716.
Korsch, Alfred, to Kleinewefers, Joh., Sohne Maschinenfabrik. Double winder for the continuous passage of textile goods. 3,429,517, 2-25-69, Cl. 242-55.
Korsch, Alfred, to Gerber & Co., G.m.b.H. Continuous washing machine. 3,457,740, 7-29-69, Cl. 68-22.
Korsch, Alfred, to Kleinewefers, Joh., Sohne Maschinenfabrik. Apparatus for treating textiles. 3,457,741, 7-29-, Cl. 68-28.
Korsch, Alfred, to Kleinewefers, Joh., Sohne Maschinenfabrik. Elastic calender roller with cover of synthetic material. 3,460,221, 8-12-69, Cl. 29-113.
Korsch, Alfred, to Kleinewefers, Joh., Sohne Maschinenfabrik. Bend-free roller for calenders, rolling mills, and the like. 3,470,948, 10-7-69, Cl. 165-86.
Korshak, Vasily Vladimirovich; Vinogradova, Svetlana Vasilievna; Salazkin, Sergei Nikolaevich; and Bereza, Svetlana Veniaminovna. Method for the production of polyarylates. 3,480,597, 11-25-69, Cl. 260-78.5
Korst, James J., to Pfizer, Chas., & Co., Inc.Process for producing α-6-deoxytetracyclines. 3,444,198, 5-13-69, Cl. 260-559.
Korst, James J., to Pfizer, Chas., & Co., Inc.Process for producing α-6-deoxytetracyclines. 3,484,483, 12-16-69, Cl. 260-559.
Korst, Peter Herman Maria; Verhoeven, Adrianus Franciscus Cornelis; and Westerhof, Thomas Jan, to U.S. Philips Corporation. Tuneable reflex klystron. 3,487,257, 12-30-69, Cl. 315-5.21
Kort, Werner W.: *See—*
Dodds, Gerald C.; Karlstrom, Karl R. M.; and Kort, Werner W.,3,467,023.
Korte, Friedrich W.A.G.K.: *See—*
Adams, Charles R.; Falbe, Jurgen F.; and Korte, Friedrich W.A.G.K.,3,433,792.
Buchel, Karl H.; Draber, Wilfried; and Korte, Friedrich W.A.G.K.,3,423,420.
Muller, Ernst W.; Zoche, Gunter; and Korte, Friedrich W.A.G.K.,3,475,477.
Rochling, Hans F. W.; Buchel, Karl-Heinz; and Korte, Friedrich W.A.G.K.,3,459,759.
Korte, Klaus: *See—*
Bresslein, Helmut; and Korte, Klaus,3,459,371.
Bresslein, Helmut; and Korte, Klaus,3,474,957.
Kortejarvi, Arnold, to Solutec Corporation. Electrolytic cleaning method. 3,457,151, 7-22-69, Cl. 204-130.
Kortenback & Rauh: *See—*
Vogel, Gunter, 3,455,312.
Kortenhoven, Peter, to United States Steel Corporation. Apparatus for ultrasonically testing tubes. 3,472,064, 10-14-69, Cl. 73-67.8
Kortesoja, Victor A.: *See—*
Herman, William R.; and Kortesoja, Victor A.,3,473,363.
Korth Machinery Limited: *See—*
North, William J., 3,426,882.
Korth, Willi; and Zimmermann, Herbert. Turret type belt grinding machine. 3,471,974, 10-14-69, Cl. 51-148.
Kortum, Robert E., to Atlas Tool & Manufacturing Company. Disc brake system. 3,442,355, 5-6-69, Cl. 188-73.
Kortzky, Herman: *See—*
Woodberry, Paul T.; and Kortzky, Herman,3,445,355.
Korvas, Zdenek: *See—*
Svoboda, Antonin; Oblonsky, Jan; and Korvas, Zdenek,3,434,118.
Korver, Jan Abraham Cornelis, to U.S. Philips Corporation. Saturable reactor pincushion correction circuit. 3,441,958, 4-29-69, Cl. 315-27.
Korwin, Irving. Frame for articles of various sizes. 3,485,061, 12-23-69, Cl. 63-19.
Korwin, Paul, to Chemical Construction Corporation. Gas burner. 3,450,504, 6-17-69, Cl. 23-277.
Korwin, Paul, to Chemical Construction Corporation. Integrated reforming of hydrocarbons. 3,450,507, 6-17-69, Cl. 23-288.
Korwin, Paul, to Chemical Construction Corporation. Apparatus for hydrocarbon reforming. 3,467,504, 9-16-69, Cl. 23-288.
Korzekwa, Sam M.; and Schindler, Hans R., to General Electric Company. Sample and hold circuit. 3,428,828, 2-18-69, Cl. 307-235.
Korzekwa, Samuel M.: *See—*
Elliott, James Franklin; Korzekwa, Samuel M.; and McArthur, Raymond J.,3,425,263.
Elliott, James Franklin; Korzekwa, Samuel M.; and Granberg, Helge O.,3,453,862.
Korzekwa, Samuel M.; McFadyen, Robert J.; and Carp, Gerald, to United States of America, Navy, mesne. EMP receiver and processor. 3,483,559, 12-9-69, Cl. 343-100.
Korzenowski, Stanley J.: *See—*
Erickson, Goffe J.; and Korzenowski, Stanley J.,3,451,134.
Korzilius, Adrianus K. G., to American Enka Corporation. Method and apparatus for measuring the mass per unit length of elongated products. 3,486,369, 12-30-69, Cl. 73-67.2
Kosa, Ildiko: *See—*
Ecsery, Zoltan; Knoll, Jozsef; Kosa, Ildiko; Sandor, Ildiko; Somfai, Eva; and Torok, Sandor,3,485,874.
Kosaka, Kenzo; and Hamamura, Tadashi, to Mitsubishi Rayon Co., Ltd., mesne. Method for manufacturing crimped acrylonitrile filament yarn. 3,473,317, 10-21-69, Cl. 57-157.
Kosaka, Kenzo; and Kujime, Toshihiko, to Mitsubishi Rayon Co., Ltd. Composite yarn and its manufacturing Method. 3,438,193, 4-15-69, Cl. 57-144.
Kosaka, Kenzo; Tsunewaki, Masami; Yonekura, Nobuaki; Okaya, Tsutomu; Mimatsu, Ken; and Mori, Tatsujiro, to Mitsubishi Rayon Co., Ltd. High elastic crimped filament yarn and its manufacturing method. 3,446,005, 5-27-69, Cl. 57-157.
Kosaka, Kenzo: *See—*
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira,3,458,987.
Kosaka, Masahiro: *See—*
Omura, Masuo; Orita, Takao; and Kosaka, Masahiro,3,461,217.
Kosaka, Shinya; and Sasaguri, Kenzi, to Olympus Optical Co., Inc. Apparatus for controlling the speed of a direct current motor. 3,447,056, 5-27-69, Cl. 318-332.
Kosaka, Yujiro; Hayata, Masaaki; and Hisatomi, Yoshihiro, to Toyo Soda Manufacturing Co., Ltd. Catalyst compositions for use in oxychlorination of ethylene. 3,448,057, 6-3-69, Cl. 252-440.
Kosanke, Kurt M.: *See—*
Ash, William W.; Kosanke, Kurt M.; and Sincerbox, Glenn T.,3,423,736.
Fleisher, Harold; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,432,222.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,439,348.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,469,206.
Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard, to International Business Machines Corporation. Controlled systems for effecting selective lasing. 3,482,182, 12-2-69, Cl. 331-94.5
Max, Erhard; Kulcke, Werner W.; and Kosanke, Kurt M.,3,436,677.
Kosar, Jaromir, to Keuffel & Esser Company. Diazotype reproduction materials. 3,469,981, 9-30-69, Cl. 96-49.
Kosar, John. Direct seals between receptacles and closures therefor. 3,428,208, 2-18-69, Cl. 220-39.

Kosar, John. Cornered blanks for closure caps, liners, washers, etc., plus method of blanking and forming the blanks and utilizing the corners. 3,443,713, 5-13-69, Cl. 215-43.
Kosar, John. Positive locking, nonmarring set screw. 3,479,072, 11-18-69, Cl. 287-52.08
Kosatka, Thomas O., to Victor Manufacturing and Gasket Company. Valve stem seal. 3,480,286, 11-25-69, Cl. 277-182.
Koscinski, Anthony: *See—*
Hoyler, Robert C.; Koscinski, Anthony; and Perkinson, William B.,3,428,754.
Kosco, John C., to Stockpole Carbon Company. High density electrical contacts. 3,482,950, 12-9-69, Cl. 29-182.8
Kosco, John C., to Stackpole Carbon Company. Semi-conductor device. 3,483,439, 12-9-69, Cl. 317-234.
Kosem, Marion, to Bunker-Ramo Corporation, The. Feed rate computer and squaring circuit for a pulse responsive multiaxes servo system. 3,479,574, 11-18-69, Cl. 318-18.
Koshar, Robert J.; and Husted, Donald R., to Minnesota Mining and Manufacturing Company. Perfluorinated imines and amines. 3,461,162, 8-12-69, Cl. 260-564.
Koshimura, Saburo: *See—*
Okamoto, Hajime; and Koshimura, Saburo,3,477,914.
Koshino, Tameo: *See—*
Tsuruga, Masanori; Murakami, Shogo; Kondo, Katsutoshi; Akabane, Shunei; Washikita, Kenji; and Koshino, Tameo,3,478,101.
Koshizuka, Michio; Ohfuji, Naoji; and Sata, Shinetsu, to Nippon Radio Company Limited. Gas filled cold cathode indicator tube. 3,437,861, 4-8-69, Cl. 313-109.5
Koshman, Vitaly Ivanovich: *See—*
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Sameljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich,3,457,462.
Koshuba, Walter J.: *See—*
Morana, Simon J.; and Koshuba, Walter J.,3,460,999.
Koshuha Netsuren Kabushiki Kaisha: *See—*
Fujita, Makoto; and Katsura, Kanichiro, 3,469,829.
Kosiorek, Raymond; and Loughman, John I., to Drakenfeld, B. F., & Company. Crystallizable enamels for glass-ceramics. 3,463,647, 8-26-69, Cl. 106-48.
Kosiorek, Raymond: *See—*
Wolf, William F.; and Kosiorek, Raymond,3,428,466.
Koski, Jerry V., to Parker-Hannifin Corporation. Tube coupling. 3,441,297, 4-29-69, Cl. 285-342.
Koski, William L.: *See—*
Swenson, Emil S.; and Koski, William L.,3,468,136.
Koslo, Robert C.; and Brubaker, Robert D., to Addressograph-Multigraph Corporation. Copying apparatus. 3,471,230, 10-7-69, Cl. 355-14.
Koslowski, Hans Gunter; Schmetz, Walter; and Zangs, Alexander, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Cordless jacquard card copying machine for endless paper cards. 3,471,082, 10-7-69, Cl. 234-18.
Kosmach, Fred C.; Mocny, Richard C.; and Moritz, Donald B., to Waco Scaffold & Shoring Co., Division of Bliss & Laughlin Industries, Inc. Knockdown scaffolding. 3,420,030, 1-7-69, Cl. 52-637.
Kosmalski, Hermann: *See—*
Opel, Detlef; Brinkmann, Karl-Heinz; and Kosmalski, Hermann,3,429,340.
Kosmos, Peter: *See—*
Feagin, Roy C.; Dahowski, Edward L.; and Kosmos, Peter,3,432,312.
Koso, Dusan A.: *See—*
Coccoli, Joseph D.; and Koso, Dusan A.,3,469,922.
Kosolapoff, Gennady M.: *See—*
Hays, Hugh R.; and Kosolapoff, Gennady M.,3,445,522.
Kosono, Yoshiaki. Spike for shoes. 3,423,855, 1-28-69, Cl. 36-67.
Kosonocky, Walter F.: *See—*
Cornely, Roy H.; and Kosonocky, Walter F.,3,467,906.
Kosonocky, Walter F., to United States of America, Air Force. Laser digital device. 3,430,160, 2-25-69, Cl. 331-94.5
Kosonocky, Walter F., to Radio Corporation of America. Optical system for performing digital logic. 3,431,437, 3-4-69, Cl. 307-312.
Kosonocky, Walter F., to United States of America, Air Force. Semiconductor laser components for digital logic. 3,439,289, 4-15-69, Cl. 331-94.5
Kosonocky, Walter F., to RCA Corporation. Hybrid transistor-negative resistance diode circuits including feedback. 3,458,733, 7-29-69, Cl. 307-286.
Kosowsky, Lester H., to United Aircraft Corporation. Interferometer radar moving target indicator. 3,480,957, 11-25-69, Cl. 343-16.
Kosrow, Robert L.: *See—*
Attwood, John G.; and Kosrow, Robert L.,3,447,051.
Hale, Arthur N.; and Kosrow, Robert L.,3,469,545.
Kosrow, Robert L., to Union Special Machine Company. Automatic sewing apparatus. 3,425,369, 2-4-69, Cl. 112-2.
Kosrow, Robert L.; Matias, James J.; and Hale, Arthur N., to Union Special Machine Company. Lubricant cooling system for sewing apparatus. 3,486,474, 12-30-69, Cl. 112-256.
Kosrow, Robert L.; and Vischer, Peter, to Union Special Machine Company. Sewing apparatus and control means therefor. 3,457,886, 7-29-69, Cl. 112-121.15
Koss, Friedrich-Wilhelm: *See—*
Keck, Johannes; Nickl, Josef; Koss, Friedrich-Wilhelm; Schraven, Eckhard; and Beisenherz, Gerwin,3,454,574.
Koss, Louis Jack, to Capital Machine Company, Inc. Method of preventing staining of veneers in veneer slicers. 3,441,069, 4-29-69, Cl. 144-309.
Koss, Milton. Hair-treating device and method for manufacturing the same. 3,455,309, 7-15-69, Cl. 132-33.
Koss, Peter: *See—*
Knotik, Karl; Koss, Peter; and Markl, Heinz,3,472,922.
Koss, Richard P., to Federal Screw Works. Fastener assembly. 3,421,563, 1-14-69, Cl. 151-7.
Kossler, Karl-Heinz: *See—*
Prillwitz, Hans; Mechalke, Klaus; Kossler, Karl-Heinz; and Seyfarth, Bodo,3,459,275.
Kossling, Alfred: *See—*
Jager, Wolfgang; and Kossling, Alfred,3,443,642.
Kossoff, Arnold H.; and Kossoff, Irwin I. Double-wall folding box with a locking closure therefor. 3,468,469, 9-23-69, Cl. 229-33.
Kossoff, Irwin I.: *See—*
Kossoff, Arnold H.; and Kossoff, Irwin I.,3,468,469.
Kossoff, Joseph: *See—*
Douglas, Raymond J.; Handler, Elliott; Iwasaki, Cedric E.; Kossoff, Joseph; and Ryan, John W.,3,475,857.
Ryan, John W.; Kossoff, Joseph; and Hartman, Jack E.,3,451,160.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L.,3,445,955.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L.,3,448,540.
Kossowski, Eugeniusz: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Kossowski, Kazimierz; and Peterson, Harley G., to Joy Manufacturing Company. Electrical precipitator. 3,426,507, 2-11-69, Cl. 55-129.
Kost, Erwin: *See—*
Bindernagel, Ali; Kost, Erwin; and Steinbock, Rolf,3,448,773.
Bindernagel, Ali; Luebke, Horst; and Kost, Erwin,3,473,574.
Kost, Jack H.; and Kost Sharon K. Spare tire carrier. 3,442,408, 5-6-69, Cl. 214-451.
Kost, John C. Automatic mouse traps. 3,423,870, 1-28-69, Cl. 43-69.
Kost Sharon K.: *See—*
Kost, Jack H.; and Kost Sharon K.,3,442,408.
Kosta, James P., Jr. Transistor oscillator with vibrating reed power supply. 3,457,522, 7-22-69, Cl. 331-71.
Kostal, Alois: *See—*
Havlicek, Karel; and Kostal, Alois,3,469,233.
Kostas, George J.: *See—*
Williams, Billy J.; and Kostas, George J.,3,449,150.
Kostas, James M.: *See—*
Breon, Pearl L.; Kress, Ralph H.; Medley, Jackson C.; Eilers, Elvin L.; and Kostas, James M.,3,486,576.
Kress, Ralph H.; and Kostas, James M.,3,477,547.
Koster, Albert: *See—*
Mulder, Jelke H., 3,450,416.
Koster, Hendrik M.: *See—*
Mulder, Jelke H., 3,450,416.
Koster, Johan; and Benning, Herman Jozef Gerardus Maria, to U.S. Philips Corporation, mesne. Circuit arrangement for the automatic gain control of an electric signal. 3,458,818, 7-29-69, Cl. 325-414.
Koster, Lawrence R.: *See—*
Davidse, Pieter D.; Koster, Lawrence R.; and Himes, Walter,3,423,303.
Koster, Machiel H.: *See—*
Mulder, Jelke H., 3,450,416.
Kostick, John M., to Omniversal Design. Modular structure. 3,477,188, 11-11-69, Cl. 52-637.
Kostin, Boris Jurievich: *See—*
Rusanovich, Nikolai Grigorievich; Dmitriev, Ivan Sergeevich; Korobov, Yakov Vasilievich; Volfenzon, Shmul Ovshievich; Kostin, Boris Jurievich; Zaichik, Evegeny Bentsionovich; and Emelyanov, Vasily Semenovich,3,450,376.
Kostin, Richard M.; and White, Charles E., to Ford Motor Company. Remote control rearview mirror assembly. 3,472,095, 10-14-69, Cl. 74-501.
Kostochkin, Vladimir Nikolaevich: *See—*
Tevis, Petr Isaakovich; Kostochkin, Vladimir Nikolaevich; Ananev, Vladimir Alexandrovich; Krjukov, Viktor Mikhailovich; and Mitin, Dmitry Mikhailovich,3,467,179.

Kostolich, Marcus S. Compacting machine. 3,447,449, 6-3-69, Cl. 100-95.
Kostrov, Pavel Mikhailovich; Kozlov, Viktor Nikolaevich; Garin, Vladimir Mikhailovich; Ivanov, Viktor Alexeevich; and Dmitriev, Jury Ivanovich. Device for measuring arterial blood pressure in living body under variable ambient pressure. 3,485,238, 12-23-69, Cl. 128-2.05
Kostrzewski, Janusz: *See—*
Krzewinski, Zbigniew; Franciszczak, Eugeniusz; Jerzykiewicz, Jerzy; and Kostrzewski, Janusz,3,464,635.
Kostuch, Donald J.: *See—*
Garry, Gerald A.; Kostuch, Donald J.; Lawless, Frederick W.; and Malaby, Davey L.,3,458,688.
Kostur, J Edward, to Comet Industries, Inc. Method of making heat formed article. 3,466,355, 9-9-69, Cl. 264-89.
Kostur, Robert E., to Comet Industries, Inc. Drive mechanism for a rotary work support. 3,446,096, 5-27-69, Cl. 74-821.
Kostyrko, Jerzy: *See—*
Morzynski, Stanislaw; and Kostyrko, Jerzy,3,468,259.
Kosuge Matsuzo. Toy xylophone playing device. 3,456,543, 7-22-69, Cl. 84-102.
Kosugi, Jiro. Bicycle skeleton frame. 3,448,997, 6-10-69, Cl. 280-281.
Kosugi, Tsuneo; and Takashima, Seiichi, to Victor Company of Japan, Limited. Synchronous motor phase control system. 3,423,523, 1-21-69, Cl. 178-6.6
Kosztolanyi, Charles: *See—*
Durand, Georges; and Kosztolanyi, Charles,3,423,583.
Kot, Frank D.: *See—*
Fyler, George W.; and Kot, Frank D.,3,475,550.
Kotaka, Yasukuni; Arakawa, Takeshi; and Kamata, Takemi, to Nippon Electric Company Limited. Electromagnetic positioning mechanism. 3,430,120, 2-25-69, Cl. 318-135.
Kotarski, Lester R., to Pfauder, Ritter Corporation. Gear engagement device. 3,443,449, 5-13-69, Cl. 74-422.
Kotek, Alexander, to Bata Shoe Company, Inc. Injection molding apparatus. 3,425,095, 2-4-69, Cl. 18-30.
Kotelnikov, Anatoly Feofanovich: *See—*
Moldavsky, Felix Grigorievich; and Kotelnikov, Anatoly Feofanovich,3,433,379.
Kotera, Norio: *See—*
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,047.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,048.
Kotfila, Ronald P.: *See—*
Andeen, Richard E.; and Kotfila, Ronald P.,3,476,335.
Kothe, Hans: *See—*
Maceyka, Joseph G.; O'Kane, Roger J., Jr.; and Kothe, Hans,3,436,998.
Kothmann, Richard E.: *See—*
Meyerhoff, Alfred; Stewart, William A.; Long, Arthur H.; and Kothmann, Richard E.,3,457,988.
Kotler, Max S. Safety deposit box protector. 3,467,034, 9-16-69, Cl. 109-59.
Kotler, Paul: *See—*
Connelly, William F.; and Kotler, Paul,3,466,036.
Kotlyarevsky, Alexandr Portirievich: *See—*
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Sameljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich,3,457,462.
Kotlyarov, Alexandr Mikhailovich; and Protopopov, Nikolai Nikolaevich. Device for automatic pulling and running of drilling string. 3,424,257, 1-28-69, Cl. 175-85.
Kotoby, Anatole P.: *See—*
Green, Joseph; and Kotoby, Anatole P.,3,450,798.
Kotone, Eimatsu. Control of air supply for pneumatic impact hammers. 3,468,383, 9-23-69, Cl. 173-1.
Kotone, Eimatsu. Pneumatic impact hammer. 3,480,090, 11-25-69, Cl. 173-135.
Kotoucek, Waldemar R., to Ford Motor Company. High traction differential gear unit for wheeled vehicles. 3,442,154, 5-6-69, Cl. 74-710.5
Kotsch, William E., to General Electric Company. Incandescent flasher lamp having a cut-out member connected in parallel with the filament. 3,458,756, 7-29-69, Cl. 315-65.
Kotsifas, Peter N.: *See—*
Waye, William E.; and Kotsifas, Peter N.,3,444,695.
Kotski, Edward J.: *See—*
Arndt, Richard H.; and Kotski, Edward J.,3,471,784.
Kottenhahn, Alfred Peter, du Pont de Nemours, E. I., and Company. Recovery of catalyst reaction control diluent utilized in the preparation of monovinyl acetylene. 3,431,307, 3-4-69, Cl. 260-612.
Kotter, Clemens: *See—*
Werres, Horst; Baumert, Dietrich; and Kotter, Clemens,3,437,730.
Kotter, Helmut, to Felten & Guilleaume Fermeldeanlagen G.m.b.H. Circuit arrangement for signalling the upper and lower limits of a voltage. 3,470,497, 9-30-69, Cl. 323-22.
Kotter, James I.; Salaun, Harold L., Jr.; Wallace, Eugene F.; and Lanigan, James P., Jr., to United States of America, Agriculture. Fiber blender (SRRL bale-opener-blender). 3,458,904, 8-5-69, Cl. 19-80.
Kotthaus, Helmut: *See—*
Gyongyos, Ivan; and Kotthaus, Helmut,3,428,111.
Kottick, Gene John, to Midland-Ross Corporation. Paper web dryers. 3,461,569, 8-19-69, Cl. 34-116.
Kottler, Franklin D.: *See—*
Jordan, William E.; and Kottler, Franklin D.,3,466,125.
Kottman, Joseph J., to GAF Corporation. Flaw detecting system including synchronously rotating optic fiber tubes. 3,480,786, 11-25-69, Cl. 250-219.
Kottong, Gerald W.: *See—*
Esmay, Donald L.; and Kottong, Gerald W.,3,450,762.
Kottsieper, Edward: *See—*
Haas, Edgar; and Kottsieper, Edward,3,428,232.
Haas, Edgar; and Kottsieper, Edward,3,468,204.
Haas, Edgar; and Kottsieper, Edward,3,472,109.
Lozano, Anthony H.; and Kottsieper, Edward,3,486,544.
Kotuby, Paul M.: *See—*
Beard, Walter C., Jr.; and Kotuby, Paul M.,3,446,478.
Kotyk, Michael, to United States Steel Corporation. Method of enameling steel. 3,436,808, 4-8-69, Cl. 29-523.
Kotyuk, Bernard L.: *See—*
Van Tine, Wilbur; and Kotyuk, Bernard L.,3,460,856.
Kotyza, Heinrich: *See—*
Theermann, Hans; Kotyza, Heinrich; and Schiedeck, Werner,3,472,555.
Kotz, Gottfried: *See—*
Graf, Max; Kotz, Gottfried; and Roth, Helmut,3,473,657.
Kotzerke, Wilfried Willy: *See—*
Lindner, Hellmuth Gustav; and Kotzerke, Wilfried Willy,3,435,636.
Kotzin, Bernard, Jr. Roller structure. 3,470,577, 10-7-69, Cl. 16-18.
Kotzsch, Hans-Joachim; and Ismail, Mohamed Roshdy, to Dynamit Nobel Aktiengesellschaft. Process for preparing silicic acid ester silazanes. 3,446,774, 5-27-69, Cl. 260-47.
Kotzsch, Hans-Joachim; and Ismail, Roshdy M., to Dynamit Nobel Aktiengesellschaft. Method of manufacture of high molecular weight thermoplastic silicic acid polyesters. 3,423,361, 1-21-69, Cl. 260-47.
Kotzsch, Hans-Joachim; and Ismail, Roshdy M., to Dynamit Nobel Aktiengesellschaft. Method of manufacture of high molecular weight thermoplastic silicic acid polyesters. 3,423,362, 1-21-69, Cl. 260-47.
Kotzsch, Hans-Joachim: *See—*
Ismail, Mohamed Roshdy; and Kotzsch, Hans-Joachim,3,481,964.
Kotzschmar, Arnold: *See—*
Fischer, Manfred; Kotzschmar, Arnold; and Schwenk, Ulrich,3,454,617.
Koubek, Francis J., to United States of America, Navy. Ceramic plastic composite material for radomes. 3,440,132, 4-22-69, Cl. 161-87.
Koubik, Milan; Kresta, Vaclav; and Valenta, Jiri, to Mosilana, Narodni Podnik. Method of treating spent wool scouring liquors. 3,458,543, 7-29-69, Cl. 260-412.5
Koucky, Frantisek: *See—*
Koucky, Josef; and Koucky, Frantisek,3,431,819.
Koucky, Josef; and Koucky, Frantisek, to Zavody Kana Svermy, narodni podnik. Firing mechanism for firearms. 3,431,819, 3-11-69, Cl. 89-145.
Koudelka, Robert E.; Arnold, Cornelius S.; and Kelley, Dewitt T., to Union Carbide Corporation. Process and apparatus for introducing a gaseous treating stream into a molten metal bath. 3,427,151, 2-11-69, Cl. 75-59.
Koudelka, Vladimir, to Naradi narodni podnik. Reversing pawl mechanism. 3,433,329, 3-18-69, Cl. 188-82.2
Kough, John K.: *See—*
Martin, Otis M., 3,440,777.
Koukal, Vlastimil; and Krakora, Otokar, to Tesla, narodni podnik. Electret microphone. 3,474,197, 10-21-69, Cl. 179-111.
Koumura, Seizo: *See—*
Otsuka, Masatomi; Koumura, Seizo; Yamaguchi, Hideo; and Kume, Hidetoshi,3,481,701.
Koupal, Jerome R., to Bechtel International Corporation, mesne. Electrogasdynamic power cycle. 3,474,266, 10-21-69, Cl. 310-5.
Kouril, Jaroslav, to Vyskumny ustav mechanizacie a automatizacie. Ultrasonic treating method and apparatus. 3,433,669, 3-18-69, Cl. 134-1.
Koury, Anthony J. Masking composition. 3,470,001, 9-30-69, Cl. 106-2.
Koury, Frederic: *See—*
Waymouth, John F.; and Koury, Frederic,3,427,087.

Koutroulos, Jean: *See—*
Holtermann, Hugo; Haugen, Leif Gunnar; Thorsdalen, Nils; Tjonneland, Knut; Wille, Knut; and Koutroulos, Jean,3,476,802.

Kouwenhoven, Herman W.: *See—*
Van Helden, Henricus J. A.; Kouwenhoven, Herman W.; and Quik, Willem C. J.,3,442,794.

Kouwenhoven, Herman W.; Aben, Pieter C.; and van der Wal, Karel, to Shell Oil Company. Process for the hydrogenation of unsaturated hydrocarbons. 3,422,001, 1-14-69, Cl. 208-143.

Kouwenhoven, Herman W.; and Douwes, Cornelis Th., to Shell Oil Company. Process for the hydrogenation of unsaturated hydrocarbons. 3,432,565, 3-11-69, Cl. 260-667.

Kovac, Frederick J.: *See—*
Kersker, Theodore M.; and Kovac, Frederick J.,3,431,962.

Kovac, Stephen Robert. Article dispenser having a reciprocating ejector. 3,471,056, 10-7-69, Cl. 221-151.

Kovach, Curtis W.: *See—*
Moskowitz, Arthur; Kovach, Curtis W.; and Wells, Ralph G.,3,437,478.

Kovach, Stephen M.; and Rogers, Edward S., to Sinclair Research, Inc. Hydrorefining with a sulfided catalyst of a platinum series metal and molybdena on alumina. 3,422,002, 1-14-69, Cl. 208-254.

Kovach, Stephen M.; and Rogers, Edward S., to Sinclair Research, Inc. Process hydrorefining hydrocarbons with a catalytic mixture of individually-supported active components. 3,437,588, 4-8-69, Cl. 208-216.

Kovach, Stephen M.; Sanford, Robert A.; and Young, David W., to Sinclair Research, Inc. Process of solubilizing, via hydrogenation, alpha-methylstyrene polymers and product obtained thereby product obtained thereby. 3,433,845, 3-18-69, Cl. 260-667.

Kovach, Stephen M.; Sanford, Robert A.; and Young, David W., to Sinclair Research, Inc. Hydrogenation of hydroxy containing diene polymers. 3,459,814, 8-5-69, Cl. 260-635.

Kovacic, Joseph E., to Sperry Rand Corporation. Complexes of dihydroxy benzenes with salicylidene anilines. 3,483,131, 12-9-69, Cl. 252-301.2

Kovacic, Joseph E., to Sperry Rand Corporation. Photochromic Schiff base copolymers. 3,483,162, 12-9-69, Cl. 260-47.

Kovacik, John M.: *See—*
May, Howard F.; and Kovacik, John M.,3,443,550.

Kovacik, Joseph; and Mooney, William, to Wide Range Industries, Inc. Display stand. 3,452,880, 7-1-69, Cl. 211-77.

Kovacs, Desidrio, to Bracco, Fulvio. Hinge device. 3,431,592, 3-11-69, Cl. 16-178.

Kovacs, Ernest, to Palm Oil Recovery, Inc. Rolling oil recovery process. 3,471,533, 10-7-69, Cl. 260-412.5

Kovacs, Lajos J., to Ohio Brass Company, The. Mine roof support. 3,469,407, 9-30-69, Cl. 61-45.

Kovacs, Lajos J.: *See—*
Tanaka, Shigefumi; Ishikawa, Jiro; Matumoto, Tosiaki; and Kovacs, Lajos J.,3,469,403.

Kovacs, Lloyd, to Midland-Ross Corporation. Molding machine with clamp unit and control system therefor. 3,484,897, 12-23-69, Cl. 18-5.

Kovacs, Lloyd: *See—*
Waechter, Charles J.; and Kovacs, Lloyd,3,444,604.
Waechter, Charles J.; and Kovacs, Lloyd,3,486,190.

Kovacs, Roy F.; Lang, David L.; and Ligon, James T., to Firestone Tire & Rubber Company, The. Emergency locking retractor. 3,446,454, 5-27-69, Cl. 242-107.4

Kovalcski, Joseph J.; and Bauer, Gordon L., to Advanced Wyrepak Company, Inc., The. Wire take-off device. 3,425,647, 2-4-69, Cl. 242-128.

Kovalevski, Nicholas, to Alfred Electronics. Transistor oscillator circuit employing variable depletion capacitance and carrier storage capacitance. 3,464,029, 8-26-69, Cl. 331-117.

Kovar, Leonard J. Skiing support for ski boots. 3,475,835, 11-4-69, Cl. 36-1.5

Kovar, Richard D.: *See—*
Smith, Roy F.; and Kovar, Richard D.,3,461,681.

Kovarik, Alois; and Suchanek, Jindrich, to Meopta, narodni podnik. Automatically operated slide projector. 3,459,476, 8-5-69, Cl. 353-118.

Kovarik, Alois; and Suchanek, Jindrich, to Meopta, narodni podnik. Automatic slide projector having dual optical system with a single magazine. 3,468,603, 9-23-69, Cl. 353-94.

Kovats, Zoltan, to Rockwell Manufacturing Company. Temperature compensating apparatus for fluid flow meters. 3,440,877, 4-29-69, Cl. 73-230.

Kovdrya, Ivan Timofeevich: *See—*
Rebenok, Anatoly Georgievich; Budenkov, Valentin Nikolaevich; Mezentsev, Jury Grigorievich; Vainshtein, Lazar Pinkhusovich; Durachenko, Mikhail Ivanovich; and Kovdrya, Ivan Timofeevich,3,457,879.

Kowa Concrete Company Limited: *See—*
Matsubara, Kentaro; and Tohyama, Seikichi, 3,430,857.

Kowack, Frank J., to Columbian Slides, Inc. Arrangement for telescoping slides. 3,428,369, 2-18-69, Cl. 308-3.6

Kowal, Leonard J.; and Strybel, Richard V., to Imperial-Eastman Corporation. Fluid-test apparatus. 3,438,260, 4-15-69, Cl. 73-420.

Kowal, Leonard J.: *See—*
Strybel, Richard V.; and Kowal, Leonard J.,3,421,354.

Kowal, Leonard; and Starai, Rudolph, to Ampex Corporation. Control apparatus for program distribution of broadcast and recorded video information. 3,484,548, 12-16-69, Cl. 178-6.

Kowalak, John: *See—*
Jeffee, Saul; and Kowalak, John,3,428,399.

Kowalczyk, Walter. Curtain rod bracket. 3,430,908, 3-4-69, Cl. 248-265.

Kowalczyk, Walter. Curtain-rod-mounting or traverse-drapery-rod mounting bracket apparatus. 3,463,434, 8-26-69, Cl. 248-257.

Kowalewski, Edward C., to Admiral Corporation. Variable size anode cap. 3,464,053, 8-26-69, Cl. 339-149.

Kowalewski, John J.: *See—*
Brown, Robert J.; Kowalewski, John J.; and Moughty, John J.,3,434,092.

Kowalick, James F.: *See—*
Ciccone, Thomas Q.; and Kowalick, James F.,3,434,420.
Hare, George; and Kowalick, James F.,3,483,791.

Kowalik, Jhn J., to International Harvester Company. Close-coupled articulated crawler tractor. 3,451,494, 6-24-69, Cl. 180-9.24

Kowalik, John J.: *See—*
Woodring, Robert W.; Kowalik, John J.; and Panek, Bruno J.,3,423,920.

Kowalik, Ronald F., to Automatic Electric Laboratories, Inc. Semiconductor transducer. 3,433,904, 3-18-69, Cl. 179-110.

Kowalonek, John M.: *See—*
Shohet, Herbert N.; Amelio, Armand F.; House, Richard L.; and Kowalonek, John M.,3,449,891.

Kowalski, Werner: *See—*
Hartlapp, Gerhard; Kowalski, Werner; and Klee, Helmut,3,449,068.

Kowalski, Xavier: *See—*
Hilton, Thomas B.; and Kowalski, Xavier,3,431,206.

Kowalski, Xavier; and Shaver, Kenneth J., to Monsanto Company. Monoamidotriphosphate detergent compositions. 3,457,177, 7-22-69, Cl. 252-152.

Kowaluk, Bohdan. Wall tile or panels. 3,445,976, 5-27-69, Cl. 52-511.

Kowanko, Nicholas, to Minnesota Mining and Manufacturing Company. Polyfluorocarbon oxides prepared from a mixture of a polyfluoro carbonyl compound, a perfluoroolefin and ozone. 3,423,364, 1-21-69, Cl. 260-63.

Kowarik, Klaus: *See—*
Scheiber, Werner; Walter, Peter; Lehmann, Rolf; and Kowarik, Klaus,3,476,668.

Kowaseiko Co., Ltd.: *See—*
Ishimitsu, Akitoshi; Sugahara, Kinichi; Arakawa, Saburo; and Kitazawa, Tadao, 3,482,964.

Kowert, Alexander; Moldenhauer, Kurt; Ries, Ludwig; and Schaefer, Werner, to Hartmann & Braun Aktiengesellschaft. Adjustable support and alinement means for a multibeam-infrared gas analyser. 3,454,760, 7-8-69, Cl. 250-43.5

Koyama, Jiro; Sumi, Masao; and Ohara, Seiji, to Nippon Telegraph and Telephone Public Corporation. Microwave semi-conductor device. 3,464,020, 8-26-69, Cl. 330-5.

Koyama, Koichiro: *See—*
Hatano, Ikuo; Koyama, Koichiro; and Nishimura, Tomohiro,3,486,991.

Koyama, Tsukasa: *See—*
Ikeda, Koichi; Tsuji, Shigeru; Anazawa, Shinzo; and Koyama, Tsukasa,3,420,683.

Koyanagi, Shiniti; and Morikawa, Sumio, to Nippon Electric Company, Limited. Capacitor. 3,454,999, 7-15-69, Cl. 29-25.42

Koyanagi, Tatsuo: *See—*
Ushioda, Tsunezo; and Koyanagi, Tatsuo,3,468,668.

Kozacik, Alfred P.: *See—*
Myers, Herbert; and Kozacik, Alfred P.,3,481,871.

Kozacka, Frederick J., to Chase-Shawmut Company, The. Miniaturized time-lag cartridge fuse having ribbon-type fuse link. 3,425,018, 1-28-69, Cl. 337-158.

Kozacka, Frederick J., to Chase-Shawmut Company, The. Miniaturized cartridge fuse for small current intensities having large time-lag. 3,425,019, 1-28-69, Cl. 337-163.

Kozacka, Frederick J., to Chase-Shawmut Company, The. High voltage fuse particularly for circuits including solid state devices. 3,479,630, 11-18-69, Cl. 337-159.

Kozacka, Frederick J., to Chase-Shawmut Company, The. Electric cartridge fuse. 3,483,501, 12-9-69, Cl. 337-166.

Kozai, Katsuya, to Fuji Shashin Film Kabushiki Kaisha. Ultrasonic fixing method of photographic film. 3,485,690, 12-23-69, Cl. 156-73.

Kozai, Teruo, to Nippon Electric Company, Limited. Heat-treatment apparatus having reciprocating multiple furnaces. 3,456,932, 7-22-69, Cl. 263-6.

Kozak, John J.: *See—*
Walden, Luther E., 3,447,255.

Kozar, Michael: *See—*
Broderick, John W.; Florenza, Robert M.; Kozar, Michael; and Lineman, Harry L.,3,472,376.
Kozasa, Ken: *See—*
Nakazima, Yoshiyuki; and Kozasa, Ken,3,465,611.
Kozawa, Scichibei, to Shimadzu Seisakusho Ltd. Photometer for comparing scattered with transmitted light. 3,420,609, 1-7-69, Cl. 356-104.
Koziatek, Jerry P.: *See—*
Surletta, Zygmunt M.; Ockershauser, Karl F.; and Koziatek, Jerry P.,3,451,073.
Koziol, Walter, to Charmglow Manufacturing Co. Closure plug. 3,439,828, 4-22-69, Cl. 220-24.
Koziol, Walter, to Charmglow Manufacturing Co. Spit rod assembly. 3,447,445, 6-3-69, Cl. 99-421.
Kozlenko, Nikolai Panteleimonovich; and Rezvyakova, Zoya Nikolaevna. Random signal level meter. 3,469,187, 9-23-69, Cl. 324-77.
Kozlin, Joseph R.; and Ciavola, David T., to Continental Aviation and Engineering Corporation. Air-cooled turbine rotor self-sustaining shroud plate. 3,455,537, 7-15-69, Cl. 253-39.15
Kozlov, Alexandr Vasilievich: *See—*
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Sameljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich,3,457,462.
Kozlov, Nikolai Fedorovich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.
Kozlov, Viktor Nikolaevich: *See—*
Kostrov, Pavel Mikhailovich; Kozlov, Viktor Nikolaevich; Garin, Vladimir Mikhailovich; Ivanov, Viktor Alexeevich; and Dmitriev, Jury Ivanovich,3,485,238.
Kozlovic, John M., to Westinghouse Electric Corporation. Vertical-lift metal-clad switchgear equipment. 3,435,162, 3-25-69, Cl. 200-50.
Kozlowski, Robert H.: *See—*
Bray, Ben G.; and Kozlowski, Robert H.,3,420,768.
Kozlowski, Robert H.; and Mulaskey, Bernard F., to Chevron Research Company. Protection of sulfided hydrotreating catalysts against reaction with oxygen. 3,453,217, 7-1-69, Cl. 252-430.
Kozlowski, Zbigniew: *See—*
Miler, Kazimier; and Kozlowski, Zbigniew,3,445,248.
Kozma, Broni: *See—*
Grazen, Frank S.; Bryzinsky, Frank M.; and Kozma, Broni,3,438,917.
Kozma, Joseph A., Jr. Immersion heating apparatus. 3,430,618, 3-4-69, Cl. 126-360.
Kozol, Eugene T.; and Pawletko, Joseph P., to International Business Machines Corporation. Drive circuit for carriage stepping motor. 3,443,181, 5-6-69, Cl. 318-138.
Kozu, Isao: *See—*
Ayukawa, Yukitada; and Kozu, Isao,3,469,800.
Kozuka, Tadasi, to Tokyo Juki Kogyo Kabushiki Kaisha. Mechanism for cutting upper thread in a sewing machine. 3,440,985, 4-29-69, Cl. 112-252.
Kozulis, Joseph A.; and Bayne, Peter D., to Schlitz, Jos., Brewing Co. Fermenting and aging a malt beverage. 3,484,244, 12-16-69, Cl. 99-31.
Kozulla, Robert E.: *See—*
Acker, Richard C.; Bahniuk, Eugene; and Kozulla, Robert E.,3,466,065.
K&R Industries, Inc.: *See—*
Kessel, John E., 3,452,654.
Krabal, Anthony J., to Brush Manufacturing Co., Inc. Receptacle cleaning device. 3,441,970, 5-6-69, Cl. 15-114.
Krabbe, Heinrich Friedrich, to Systron-Donner Corporation. Pulse torquing digital accelerometer and method. 3,429,189, 2-25-69, Cl. 73-517.
Krabbe, Ulrich, to Allmanna Svenska Elektriska Aktiebolaget. Control system for a frequency converter. 3,470,448, 9-30-69, Cl. 321-9.
Krabbe, Ulrik; and Hedstrom, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Drive system for an asynchronous electric motor. 3,430,122, 2-25-69, Cl. 318-203.
Kracauer, Paul, to Packaged Products Corporation. Ice cream mix. 3,475,181, 10-28-69, Cl. 99-136.
Krachmer, Robert C., to Hormel, Geo. A., & Company. Apparatus for forming sausage. 3,421,434, 1-14-69, Cl. 99-352.
Kracht, Gerhard; and Svihra, Paul M., to Swedish Crucible Steel Company. Apparatus for producing foam plastic sheet stacks. 3,477,325, 11-11-69, Cl. 83-171.
Kracklauer, Aloysius C., to Sparkler Manufacturing Company. Apparatus for removal of filter cake. 3,447,690, 6-3 69, Cl. 210-332.
Kracklauer, Aloysius C., to Sparkler Manufacturing Company. Method and apparatus for maintaining plural filter plates in spaced apart relation. 3,483,978, 12-16-69, Cl. 210-65.
Kraebel, Charlotte Marie: *See—*
Davis, Stanley Myron; Kraebel, Charlotte Marie; and Parent, Richard Alfred,3,481,792.
Kraeft, Robert W. Machine for cleaning and drying table silver and control mechanism therefor. 3,464,428, 9-2-69, Cl. 134-126.
Kraeling, John B., to Drafto Corporation. External disconnect for speed changer clutch. 3,450,243, 6-17-69, Cl. 192-97.
Kraemer, George T., to Bell Telephone Laboratories, Incorporated. Timing circuit. 3,439,191, 4-15-69, Cl. 307-293.
Kraemer, Stefan; Seidl, Alois; Mayer, Richard; and Streibl, Ludwig, to Wasag-Chemie Aktiengesellschaft. Apparatus and process for the continuous production of foamed glass and foamed ceramic. 3,473,904, 10-21-69, Cl. 65-22.
Kraeplin, Robert C., to Borg-Warner Corporation. Automatic wear adjuster for friction device. 3,478,853, 11-18-69, Cl. 192-111.
Kraffe de Laubarede, Leonce Marie Henri, to Societe Anonyme Plastus. Method and means for feeding internal combustion engines. 3,476,095, 11-4-69, Cl. 123-119.
Krafft, Erich: *See—*
Schweer, Wilhelm; Krafft, Erich; and Lorenz, Horst,3,486,403.
Krafft, Frederick G. Powered and steerable lighter-than-air vehicle. 3,420,473, 1-7-69, Cl. 244-30.
Krafft, Joseph M.; and Bird, Frank W. Four-lobed diametral-strain gage. 3,477,285, 11-11-69, Cl. 73-88.5
Krafft, Werner: *See—*
von Rintelen, Harald; Liebe, Werner; and Krafft, Werner,3,432,298.
Kraft, Arthur A., 49% to Heffley, George J. Key changer and tremolo for guitar. 3,437,001, 4-8-69, Cl. 84-312.
Kraft, Derald Henry, to Bliss, E. W.,Company. Shaft mounting. 3,433,512, 3-18-69, Cl. 287-52.05
Kraft, Derald Henry, to Bliss, E. W., Company. Die cushion with self-contained guide means. 3,474,656, 10-28-69, Cl. 72-456.
Kraft, Derald Henry; Helrigel, Robert Arthur; and Suntheimer, Robert Gordon, to Bliss, E. W., Company. High speed press. 3,450,038, 6-17-69, Cl. 100-257.
Kraft, Edmond W.; and Weaver, Frank C., to Stewart-Warner Corporation. Fuel depletion alarm circuit utilizing bimetal. 3,483,500, 12-9-69, Cl. 337-104.
Kraft, George Howard, to National Dairy Products Corporation. Packaging apparatus. 3,439,471, 4-22-69, Cl. 53-182.
Kraft, Hans-Gunter: *See—*
Irmscher, Klaus; Kramer, Josef; Kraft, Hans-Gunter; and Kieser, Hartmut,3,471,520.
Kraft, Hans-Gunther: *See—*
Bruckner, Klaus; Beerstecher, Wolfgang; Kraft, Hans-Gunther; and Kieser, Hartmut,3,449,495.
Kraft, Louis Seelbach; and Freitag, Paul W., Jr., to Goodyear Tire & Rubber Company, The. Conveyor system. 3,422,947, 1-21-69, Cl. 198-16.
Kraft, Louis Seelbach: *See—*
Hacker, Arden R.; and Kraft, Louis Seelbach,3,486,607.
Kraft, Paul. Umbrellas. 3,431,925, 3-11-69, Cl. 135-25.
Kraft, Paul, to Wurtlenbergische Metallwarenfabrik. Brushing or polishing machine. 3,439,371, 4-22-69, Cl. 15-21.
Kraft, Paul, to Wurttembergische Metallwarenfabrik. Metal fiber bodies. 3,485,595, 12-23-69, Cl. 29-182.5
Kraft, Richard A., to Motorola, Inc. Television receiver noise inversion circuit. 3,458,653, 7-29-69, Cl. 178-7.3
Kraft, Rupert, to Zimmer, Johannes. Repeat transmission. 3,473,410, 10-21-69, Cl. 74-665.
Kraft, Wilbur P. Combination metering, check and shut-off valve. 3,420,493, 1-7-69, Cl. 251-82.
Kraft, Wolfgang: *See—*
Albrecht, Werner; Dietze, Manfred; Kraft, Wolfgang; and Ullrich, Hansjurgen,3,440,019.
Dietze, Manfred; Kraft, Wolfgang; Scheller, Hans; and Ullrich, Hansjurgen,3,466,150.
Krag, Niels: *See—*
Margolien, David H.; and Krag, Niels,3,484,776.
Margolien, David H.; Lee, Arnold St. J.; and Krag, Niels,3,444,549.
Kragness, Harold D. Apparatus for propelling a craft. 3,439,645, 4-22-69, Cl. 115-25.
Krahl, Dieter: *See—*
Herrmann, Karl-Heinz; and Krahl, Dieter,3,453,485.
Krahulec, Fred: *See—*
Green, James W.; and Krahulec, Fred,3,439,137.
Krainer, Helmut; Muller, Reinhard; and Reich, Wolfhard, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Tank and method of manufacturing same. 3,425,380, 2-4-69, Cl. 113-120.
Krainman, Harris: *See—*
Levine, Nathan B.; and Krainman, Harris,3,446,759.
Krainov, Gennady Sergeevich: *See—*
Abramyan, Evgeny Aramovich; Vasserman, Sakko Borisovich; Gaponov, Vasily Alexandrovich; and Krainov, Gennady Sergeevich,3,450,996.

Krajco, Wilfred J. Concrete form structure. 3,432,137, 3-11-69, Cl. 249-45.
Krajicek, Milan: *See—*
Chvapil, Milos; Krajicek, Milan; and Adam, Miloslav,3,425,418.
Krakauer, Edwin G.: *See—*
Fischer, Edward M.; and Krakauer, Edwin G.,3,441,064.
Pincus, Seymour; and Krakauer, Edwin G.,3,431,331.
Krakauer, Sidney; Musikant, Solomon; and Rosenberg, David J., to Certain-Teed Fiber Glass Corporation. Apparatus for production of glass fibers. 3,429,681, 2-25-69, Cl. 65-9.
Krakinowski, Morris, to International Business Machines Corporation. Record reading device. 3,432,627, 3-11-69, Cl. 200-46.
Krakora, Otokar: *See—*
Koukal, Vlastimil; and Krakora, Otokar,3,474,197.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter, to Squibb, E. R., & Sons, Inc., mesne. Steroids. 3,422,134, 1-14-69, Cl. 260-468.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter, to Squibb, E. R., & Sons, Inc., mesne. Steroids. 3,483,191, 12-9-69, Cl. 260-239.57
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter, to Squibb, E. R., & Sons, Inc., mesne. 3,4-Seco-25,26,27-trisnor-$\Delta^{4(30)}$-dammarene-20-ol 3,24- dioic acid 24 20 lactone. 3,483,225, 12-9-69, Cl. 260-343.5
Kral, Fred G., to Bell & Howell Company. Transport device for permitting continuous or single play of a magnetic record card. 3,469,847, 9-30-69, Cl. 274-4.
Kral, Robert E. Automatic tray mechanism for package sealers. 3,427,781, 2-18-69, Cl. 53-74.
Kralik, Andrew J., to I-T-E Imperial Corporation, mesne. Mounting means for electromagnetic armature. 3,467,924, 9-16-69, Cl. 335-203.
Kralovec, Edward M., Jr. Control of electric heat. 3,450,862, 6-17-69, Cl. 219-494.
Kralowetz, Bruno. Process and apparatus for forming peripherally continuous enlarged portions on a shell of a cylindrical hollow body. 3,460,364, 8-12-69, Cl. 72-7.
Kralowetz, Bruno. Apparatus for swaging continuous stock. 3,460,370, 8-12-69, Cl. 72-405.
Kramarow, Nathan M., to Barogenics, Inc. Pin-type connecting joint and method of assembling. 3,479,697, 11-25-69, Cl. 18-34.
Kramarow, Nathan M.: *See—*
Zeitlin, Alexander; and Kramarow, Nathan M.,3,440,848.
Kramasz, Joseph, Jr.: *See—*
Bakalyar, Stephen R.; and Kramasz, Joseph, Jr.,3,446,057.
Kramcsak, Michael, Jr.: *See—*
Clinton, Edwin T.; and Kramcsak, Michael, Jr.,3,479,680.
Kramen, Frank H., to Harper Buffing Machine Company. Automatic buffing machine. 3,441,968, 5-6-69, Cl. 15-97.
Kramer, Bernhard; and Weber, Paul, to Farbenfabriken Bayer Aktiengesellschaft. Phthalocyanine type dyestuffs. 3,479,126, 11-18-69, Cl. 8-26.
Kramer, Charles F., to Steel Heddle Manufacturing Company. Loom harness. 3,442,298, 5-6-69, Cl. 139-91.
Kramer, Charles F.: *See—*
Kaufmann, Frank H.; and Kramer, Charles F.,3,470,920.
Kramer, Daniel E., to Kramer Trenton Co. Regenerative refrigeration system with means for controlling compressor discharge. 3,464,226, 9-2-69, Cl. 62-196.
Kramer, Daniel E., to Kramer Trenton Co. Refrigerating system designed for commercial freezers and refrigerators. 3,482,416, 12-9-69, Cl. 62-278.
Kramer, David N.: *See—*
Guilbault, George G.; and Kramer, David N.,3,432,269.
Kramer, Don A., to Motorola, Inc. Pincushion correction circuit. 3,447,027, 5-27-69, Cl. 315-24.
Kramer, Don A., to Motorola, Inc. Raster distortion correction circuit. 3,479,554, 11-18-69, Cl. 315-24.
Kramer, Don A.: *See—*
Bohlke, Edward H.; and Kramer, Don A.,3,487,168.
Hansen, Robert B.; and Kramer, Don A.,3,430,096.
Kramer, Donald F.: *See—*
Sutter, Warren H.; and Kramer, Donald F.,3,451,544.
Kramer, Eugene G. Method and apparatus for shrouding an animal carcass. 3,458,324, 7-29-69, Cl. 99-194.
Kramer, Evelyn. Visual and audible signal attachmet for umbrellas, canes and the like. 3,461,448, 8-12-69, Cl. 340-321.
Kramer, Fritz; Wilson, John C., Jr.; and Krasinski, John. Method of destroying rodents. 3,473,252, 10-21-69, Cl. 43-124.
Kramer, Hans Bernhard Adolf; Messwarb, Gunter; and Denk, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Reaction product of polyvinyl phosphonic acid and p-phenylene-diamine. 3,420,805, 1-7-69, Cl. 260-80.
Kramer, Heinz: *See—*
Linowitzki, Viktor; and Kramer, Heinz,3,458,314.
Kramer, Heinz; and Messner, Dieter, to Kalle Aktiengesellschaft. Measuring probe for determining the distribution of electrostatic charges on the surface of a solid body. 3,443,224, 5-6-69, Cl. 324-72.5
Kramer, Henry H.; and Arino, Hirofumi, to Union Carbide Corporation. Production of high purity radioactive indium- 113m. 3,450,597, 6-17-69, Cl. 176-16.
Kramer, Horst: *See—*
Dittmann, Walter; and Kramer, Horst,3,436,377.
Kramer, Howard A. Vehicle safety belt means for infant or child. 3,480,325, 11-25-69, Cl. 297-385.
Kramer, Hyman. Hinge brackets. 3,421,355, 1-14-69, Cl. 72-338.
Kramer, Hyman. Extension ladders. 3,464,522, 9-2-69, Cl. 182-211.
Kramer, Hyman. Bladed tools. 3,474,535, 10-28-69, Cl. 30-315.
Kramer, Hyman. Chairs. 3,485,528, 12-23-69, Cl. 297-45.
Kramer, Irvin R.; and Burrows, Charles F., to Martin-Marietta Corporation. Dual-seal anodized aluminum. 3,440,150, 4-22-69, Cl. 204-35.
Kramer, Jan; and Hus, Martinus, to Lummus Company, The. Demethanization of hydrocarbons condensed from hydrogen rich gas. 3,443,388, 5-13-69, Cl. 62-28.
Kramer, Josef; Freisberg, Karl-Otto; and Halpaap, Herbert, to Merck, E., A.G. Substituted flavane derivatives. 3,462,455, 8-19-69, Cl. 260-340.5
Kramer, Josef; Halpaap, Herbert; and Freisberg, Karl-Otto, to Merck E., A.G. 2-(4-Substituted phenyl)-3-lower alkyl-1,4- benzodioxane derivatives. 3,484,448, 12-16-69, Cl. 260-295.5
Kramer, Josef; Irmscher, Klaus; Halpaap, Herbert; and Freibsberg, Karl-Otto, to Merck, E., A.G. Water-soluble flavanoid derivatives. 3,433,805, 3-18-69, Cl. 260-340.5
Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert, to Merck, E., A.G. Novel substituted flavonoids. 3,450,717, 6-17-69, Cl. 260-340.5
Kramer, Josef: *See—*
Irmscher, Klaus; Kramer, Josef; Kraft, Hans-Gunter; and Kieser, Hartmut,3,471,520.
Kramer, Kenneth C.; and Archibald, Don M., to Lear Siegler, Inc. Automatic landing control system having improved wind shear capability. 3,467,344, 9-16-69, Cl. 244-77.
Kramer, Larry J., to United States Steel Corporation. Method and apparatus for electroplating a metallic strip. 3,483,098, 12-9-69, Cl. 204-28.
Kramer, Leo: *See—*
Pauley, Reginald W.; and Kramer, Leo,3,440,928.
Kramer, Manfred; Mayer, Siegfried; Reichert, Rudolf; Rose, Klaus; and Zirps, Wilhelm, to Bosch, Robert, G.m.b.H. Pressure vessel with a resilient separating membrane. 3,425,593, 2-4-69, Cl. 220-85.
Kramer, Richard M., to Lambert Brake Corporation, mesne. Automatic adjuster for a disc brake. 3,465,855, 9-9-69, Cl. 188-196.
Kramer, Richard W.: *See—*
Richey, Clarence B.; and Kramer, Richard W.,3,438,448.
Richey, Clarence B.; and Kramer, Richard W.,3,460,633.
Kramer, Richard W., to Massey-Ferguson Inc. Leveling linkage for harrows. 3,467,200, 9-16-69, Cl. 172-584.
Kramer, Robert N.: *See—*
Alonzo, Richard L.; Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N.,3,481,729.
Augustin, Eugene H.; Greenler, Robert J.; and Kramer, Robert N.,3,486,876.
Kramer, Roger G., to Simplex Time Recorder Company. Master clock. 3,479,812, 11-25-69, Cl. 58-25.
Kramer, Terence R. Hand operated extruding apparatus. 3,440,698, 4-29-69, Cl. 25-11.
Kramer, Theodore W., III; and O'Donald, Richard A. Conveyor gate. 3,458,023, 7-29-69, Cl. 193-35.
Kramer Trenton Co.: *See—*
Kramer, Daniel E., 3,464,226.
Kramer, Daniel E., 3,482,416.
Kramlich, C Wesley: *See—*
Thiem, Darold W.; Kramlich, C Wesley; and Ballmann, Richard B.,3,437,308.
Krammer, Robert: *See—*
Bildsoe, Jorgen S.; Krammer, Robert; and Muirhead, Raymond A.,3,438,338.
Kramos, Charles B.: *See—*
Keenan, Julian J.; Lilja, Sten A.; and Kramos, Charles B.,3,465,419.
Kramp, Joseph J.; and Butts, Theodore A. Assembly for inspecting the interior of pipes or conduits. 3,450,481, 6-17-69, Cl. 356-241.
Krampe, Josef. Tool for cutting and stripping cable. 3,483,617, 12-16-69, Cl. 30-90.7
Kranek, Robert C.: *See—*
Finneburgh, Lewis H., Jr.; and Kranek, Robert C.,3,427,659.
Kranhold, Kenneth G.: *See—*
Montalvo, Emanuel; Kranhold, Kenneth G.; and Carlson, Wayland A.,3,437,939.
Krank, Wolfgang; and Schickle, Gerhard, to Telefunken Patentverwertungsgesellschaft m.b.H. Waveguide having corrugated exterior and smooth metal-coated interior. 3,444,487, 5-13-69, Cl. 333-95.
Kransnitski, John: *See—*
Feder, Ernest; Kransnitski, John; and Vercellone, Peter T.,3,454,242.

Krantz, Donald E.: *See—*
Corral, Joseph S.; and Krantz, Donald E.,3,423,977.
Corral, Joseph S.; and Krantz, Donald E.,3,474,649.
Krantz, Donald Victor, to Templeton, Kenley & Co. Concrete stressing apparatus and remote control unit therefor. 3,469,399, 9-30-69, Cl. 60-52.
Krantz, Emerson H.: *See—*
Hewitt, Keith A.; and Krantz, Emerson H.,3,454,299.
Krantz, H.: *See—*
Buehl, Karl-Heinz, 3,478,375.
Simons, Aloys, 3,426,554.
Krantz, John C., Jr. Face mask. 3,438,370, 4-15-69, Cl. 128-139.
Krantz, John C., Jr.; and Croix, Louise S., to Air Reduction Company, Incorporated. Hexofluorodiethyl ether as useful convulsant in the treatment of mental illness. 3,483,298, 12-9-69, Cl. 424-342.
Krantz, John Daniel, to Coastal Dynamics Corporation. Dental chair headrest. 3,477,761, 11-11-69, Cl. 297-409.
Krantz, John D., to Coastal Dynamics Corporation. Remote control plural lamp signaling system. 3,430,224, 2-25-69, Cl. 340-313.
Krantz, John D., to Coastal Dynamics Corporation. Latch structure for pull lines. 3,436,983, 4-8-69, Cl. 74-527.
Krantz, John D., to Coastal Dynamics Corporation. Saliva ejector shut-off device for dental units. 3,476,144, 11-4-69, Cl. 137-544.
Kranz, Hugo E., to Replica Associates, Inc. Photo lay-marker table. 3,446,162, 5-27-69, Cl. 108-23.
Kranz, Joachim; Maier, Karl; and Polster, Rudolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Alpha-alkoxyalkylamino- anthraquinone dyes for gasoline. 3,435,054, 3-25-69, Cl. 260-378.
Kranz, Rolf-Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Arrangement of a direct liquid-cooled single- phase winding for synchronous generators, particularly turbo-generators. 3,469,125, 9-23-69, Cl. 310-54.
Kranz, Rolf-Dieter: *See—*
Wiedemann, Eugen; Kranz, Rolf-Dieter; and Sark, Werner,3,487,243.
Krapcho, John, to Squibb, E. R., & Sons, Inc., mesne. Novel tropolone derivatives. 3,427,309, 2-11-69, Cl. 260-240.
Krapcho, John, to Squibb, E. R., & Sons, Inc. Novel benzoxazines, benzoxazepines and benzoxazocines. 3,441,564, 4-29-69, Cl. 260-244.
Krapcho, John, to Squibb, E. R., & Sons, Inc. Novel 1,5-benzothiazepin-4 (5H)-ones. 3,455,902, 7-15-69, Cl. 260-239.3
Krapcho, John, to Squibb, E. R., & Sons, Inc. Substituted benzoxazines and benzothiazines. 3,455,915, 7-15-69, Cl. 260-243.
Krapcho, John, to Squibb, E. R., & Sons, Inc. Hydroxyalkylene-substituted benzoxazines and benzothiazines. 3,459,748, 8-5-69, Cl. 260-243.
Krapcho, John, to Squibb, E. R., & Sons, Inc. Benzothiazines. 3,471,481, 10-7-69, Cl. 260-240.
Krapcho, John, to Squibb, E. R., & Sons, Inc. 1,3-Benzothiazines. 3,475,423, 10-28-69, Cl. 260-243.
Krasin, Lester Q.; and Greene, Clifford E., to Superior Continental Corporation. Telephone carrier system having self- contained independently attachable line tap units. 3,475,561, 10-28-69, Cl. 179-15.
Krasinski, John: *See—*
Kramer, Fritz; Wilson, John C., Jr.; and Krasinski, John,3,473,252.
Kraske, Karl V.: *See—*
Dragoon, Robert; and Kraske, Karl V.,3,463,659.
Krasnow, Philip I.; and Goodman, Jerome, to Nuclear Research Associates, Inc. Sea water battery. 3,468,710, 9-23-69, Cl. 136-26.
Krasnow, Shelley: *See—*
Prange, Raymon A.; and Krasnow, Shelley,3,445,700.
Krasny, Carl, & Associates, Inc.: *See—*
Kaplan, Irving Leonard, 3,474,914.
Krasny, John F.; and Oliva, Edward C., to Wool Bureau, Inc., The. Process for rendering wool-containing garments stable to water washing and drying. 3,480,383, 11-25-69, Cl. 8-128.
Krasovitsky, Boris Mordukhovich; Poduzhailo, Vladimir Fedorovich; Podgornaya, Liya Mikhailovna; and Globus, Rafail Lvovich. Scintillator liquid. 3,444,094, 5-13-69, Cl. 252-408.
Kratavil, Allan Jerome: *See—*
Frohlich, Gerhard Joseph; Kratavil, Allan Jerome; and Zrike, Edward,3,453,191.
Kratochvil, Harry, to Wagner Electric Corporation. School bus flasher circuit. 3,444,513, 5-13-69, Cl. 340-52.
Kratochvil, Russell F.; and Eggert, William C., to Sperry, D. R., & Co. Device or separating plates and frames of filter presses. 3,446,358, 5-27-69, Cl. 210-230.
Kratomi, Shunsei. And-circuit-controlled program switch having matrix of cord connectors. 3,475,747, 10-28-69, Cl. 340-309.4
Kratsios, George: *See—*
Lee, Frank A.; and Kratsios, George,3,439,653.
Kratt, Kurt Wilhelm: *See—*
Irion, Reinhard; Kratt, Kurt Wilhelm; and Fischer, Winfried,3,447,744.
Kraty, Nigel P.: *See—*
Somervell, Roland W. G.; and Kraty, Nigel P.,3,460,251.
Kratz, Randall H., Jr.: *See—*
Easton, Fred H.; and Kratz, Randall H., Jr.,3,452,454.
Kratzer, Alfred L.: *See—*
Davenport, Ralph M., Jr.; Kratzer, Alfred L.; Sapp, Robert W.; Thomas, William T.; and Weichardt, Heinz H.,3,468,660.
Kratzer, Hans: *See—*
Heeren, Hermann; Kratzer, Hans; and Dege, Bernhard,3,473,961.
Kratzer, Karl. Manipulatory puppet. 3,471,966, 10-14-69, Cl. 46-154.
Kratzsch, Harold L.; and Farling, Gene M., to Zimmer Manufacturing Company. Surgical instrument for skin grafting. 3,428,045, 2-18-69, Cl. 128-305.
Krau, John W.; and Hurley, Forrest R., to Grace, W. R., & Co. Preparation of vermiculite paper. 3,434,917, 3-25-69, Cl. 162-3.
Krauer, Otto Albert; and Benjamin, Sidney Howard, to Otis Elevator Company. Elevator control system. 3,442,352, 5-6-69, Cl. 187-29.
Krauer, Otto Albert; and Benjamin, Sidney Howard, to Otis Elevator Company. Motor control system. 3,470,438, 9-30-69, Cl. 318-312.
Krauer, Otto Albert; Voigt, Herbert Frederick; and Schor, Harvey Ronald, to Otis Elevator Company. Elevator control system. 3,433,326, 3-18-69, Cl. 187-29.
Krauja, Ziedonis I.: *See—*
Bailey, John M.; Krauja, Ziedonis I.; and Tegg, Ralph , Jr.,3,485,225.
Kraujalis, Felix, to Pines Engineering Co., Inc. Variable stock feeder. 3,429,191, 2-25-69, Cl. 74-142.
Kraus, Alexander; and Richter, Josef, to Rohde & Schwarz. Measuring system for two and four terminal networks. 3,423,675, 1-21-69, Cl. 324-58.
Kraus, Alexander; and Sonnberger, Horst, to Rohde & Schwarz. Face contact coaxial connector. 3,486,161, 12-23-69, Cl. 339-48.
Kraus, Arthur A., Sr., to Electronic Safety Controls Inc. Electrical distribution system. 3,441,801, 4-29-69, Cl. 317-18.
Kraus, Charles E., to Execulermatic, Inc. Toroidal type transmission. 3,486,391, 12-30-69, Cl. 74-200.
Kraus, Charles P., to United States of America, mesne. Diode switch. 3,459,968, 8-5-69, Cl. 307-259.
Kraus, Donald Edward. Rotary driven hairbrush. 3,431,571, 3-11-69, Cl. 15-23.
Kraus, Edwin C., to Big Stone Canning Company. Method for heat sterilizing food in sealed containers. 3,446,636, 5-27-69, Cl. 99-214.
Kraus, George I.: *See—*
Park, Francis W.; Blough, Arthur K.; Noll, Stanley Darwin; Delfeld, William F.; Kraus, George I.; and Kraus, Robert,3,439,794.
Kraus, Gunther: *See—*
Hoschler, Hans; and Kraus, Gunther,3,449,520.
Kraus, Hans J.: *See—*
Dosch, Peter; Kraus, Hans J.; and Uhrig, Hans,3,483,082.
Kraus, Harold: *See—*
Gray, Allan Poe; and Kraus, Harold,3,478,038.
Kraus, Herbert: *See—*
Parker, Sidney G.; and Kraus, Herbert,3,468,363.
Kraus, Herman: *See—*
Schreiber, Gerhard; and Kraus, Herman,3,423,981.
Kraus, Kurt A.: *See—*
Johnson, James S.; and Kraus, Kurt A.,3,431,201.
Johnson, James S.; Kraus, Kurt A.; Marcinkowsky, Arthur E.; Phillips, Harold O.; and Shor, Arthur J.,3,449,245.
Kraus, Ludwig; and van Winsen, Friedrich H., to Daimler-Benz Aktiengesellschaft. Wheel suspension system for motor vehicles. 3,428,142, 2-18-69, Cl. 180-73.
Kraus, Milton N., to Colgate-Palmolive Company. Process for production of detergent tablets. 3,455,834, 7-15-69, Cl. 252-135.
Kraus, Philip B., to Du Pont de Nemours, E. I., and Company. Removal of free chlorine from residual chlorination gases. 3,485,577, 12-23-69, Cl. 23-2.
Kraus, Robert: *See—*
Park, Francis W.; Blough, Arthur K.; Noll, Stanley Darwin; Delfeld, William F.; Kraus, George I.; and Kraus, Robert,3,439,794.
Kraus, Thaddaus; and Schertler, Roman, to Balzers Patent- und Lizenz-Anstalt. Furnace having housing wall shielding furnace packing. 3,423,513, 1-21-69, Cl. 13-20.
Krause, Dieter H. N.: *See—*
Gottschalk, Gunther; and Krause, Dieter H. N.,3,420,351.
Krause, Douglas P.: *See—*
Mayer, William J.; Krause, Douglas P.; Lange, Walter H.; and Moore, Caleb P.,3,471,696.
Krause, Edward H., Jr.: *See—*
Foxx, Robert J.; and Krause, Edward H., Jr.,3,426,698.
Krause, Frederick A., Associates, Inc.: *See—*
Hoffman, Bernard L., 3,420,088.
Hoffman, Bernard L., 3,426,571.
Krause, Frederick W. Auxiliary jet stream injecting means for reaction engines. 3,425,225, 2-4-69, Cl. 60-261.

Krause, Fritz: *See—*
Flach, Rolf; and Krause, Fritz,3,479,976.
Krause, Gerhard, to Teves, Alfred Gmbh. Flexible-cable control system. 3,472,096, 10-14-69, Cl. 74-501.
Krause, Gerhard: *See—*
Horstmann, Winfried; and Krause, Gerhard,3,454,719.
Krause, Herbert. Seat slide structures. 3,479,099, 11-18-69, Cl. 308-3.
Krause, Horst-Jurgen, to Henkel & Cie G.m.b.H. Novel sulfation of secondary alcohols and novel sulfation product. 3,484,474, 12-16-69, Cl. 260-459.
Krause, Irving A.: *See—*
Gutleber, Frank S.; and Krause, Irving A.,3,472,960.
Krause, Johannes: *See—*
Querengasser, Hugo; Krause, Johannes; Frank, Klaus; and Cziska, Johann,3,431,103.
Krause, Kenneth W., to United States of America, Army, mesne. Strobe gate circuit. 3,448,388, 6-3-69, Cl. 328-93.
Krause, Richard J., to Owens-Corning Fiberglas Corporation. Self-actuated oiling system. 3,463,268, 8-26-69, Cl. 184-1.
Krause, Robert KG Zweigniedeslassung: *See—*
Heiniger-Schar Paul Friedrich, 3,456,996.
Krause, Stanley J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,460,995.
Krause, Stephen R. Components and system for use with inventory interrogating control and readout method and apparatus. 3,451,043, 6-17-69, Cl. 340-152.
Krause, Walter H., to PPG Industries, Inc., mesne. Actuating device for pressurized containers. 3,478,938, 11-18-69, Cl. 222-402.14
Krause, Walter J., to Bendix Corporation, The. Disc element construction for disc brake. 3,473,635, 10-21-69, Cl. 188-218.
Krause, Walter O.; and Rupert, Kenneth W., to Virginia Chemicals Inc. Liquid trapping device. 3,483,714, 12-16-69, Cl. 62-503.
Krause, Walter; Soldner, Richard E.; and Kresse, Heinz A., to Siemens Aktiengesellschaft. Ultrasound diagnostic apparatus. 3,470,868, 10-7-69, Cl. 128-2.
Krause, Werner A.: *See—*
Durward, Lloyd S., Jr.; Giger, Walter, Jr.; and Krause, Werner A.,3,427,396.
Krause, Wilhelm, to Koppers-Wistra Ofenbau G.m.b.H. Conveyor furnace. 3,434,702, 3-25-69, Cl. 263-8.
Krause, Wilhelm, to Koppers-Wistra-Ofenbau GmbH. Metallurgical walking beam furnace. 3,480,264, 11-25-69, Cl. 263-6.
Krauser, James L.: *See—*
Rothenberger, Roland D.; and Krauser, James L.,3,482,227.
Kraushaar, Alfred: *See—*
Frank, Albert; Kraushaar, Alfred; Margreiter, Hans; and Schunk, Roland,3,432,490.
Kraushaar, Robert J., to Simmonds Precision Products, Inc. Cryogenic fuel gauging apparatus utilizing neutron absorption techniques. 3,463,920, 8-26-69, Cl. 250-43.5
Krauss, Heinz, to Bosch, Robert, G.m.b.H. Heating arrangement for internal combustion engines. 3,450,977, 6-17-69, Cl. 322-33.
Krauss, Paul, to Barkrauss Enterprises Ltd. Method of forming concrete slabs, beams and the like. 3,446,885, 5-27-69, Cl. 264-225.
Krauss, Walter: *See—*
Golitz, Dietrich; Noll, Walter; Damm, Klaus; and Krauss, Walter,3,449,465.
Krauss-Maffei A.G.: *See—*
Kessler, Heinz Gerhard, 3,460,269.
Krausz, Alfred, to TRW Inc. Digital regulation control system for electrical power source element array. 3,487,229, 12-30-69, Cl. 307-71.
Krauthamer, Stanley: *See—*
Borden, Jay R.; Boutin, Lucien J.; Geis, Everett R.; and Krauthamer, Stanley,3,452,266.
Borden, Jay R.; Geis, Everett R.; Lamaster, Donald M.; and Krauthamer, Stanley,3,482,157.
Krautkramer, Josef. Method and apparatus for detecting flaws in materials. 3,453,871, 7-8-69, Cl. 73-67.8
Krautkremer, Franz: *See—*
Becker, Josef; and Krautkremer, Franz,3,422,780.
Krautwald, Herber: *See—*
Fischer, Joseff; Krautwald, Herber; and Schedele, Helmut,3,420,973.
Fischer, Josef; Krautwald, Herbert; and Schedele, Helmut,3,439,313.
Fischer, Josef; Krautwald, Herbert; and Hubner, Wolfgang,3,482,193.
Lindner, Werner; Krautwald, Herbert; and Schedele, Helmut,3,479,623.
Krautwald, Herbert; Hubner, Wolfgang; Bosch, Werner; and Aigner, Georg, to Siemens Aktiengesellschaft. Electro-magnetic system constructed as an independent prefabricated unit capable of mounting without adjustment. 3,451,022, 6-17-69, Cl. 335-281.
Krautwald, Herbert; and Schroder, Harry, to Siemens Aktiengesellschaft. Relay contact arrangements with connections for printed circuit boards. 3,430,019, 2-25-69, Cl. 200-166.
Krauze, Gennady Nikolaevich: *See—*
Solokhin, Boris Ivanovich; Krauze, Gennady Nikolaevich; and Vargasov, Alexandr Ivanovich,3,480,097.
Kravchenko, Vasily Afanasievich. Device and method for treating vascular and other diseases of extremities. 3,465,748, 9-9-69, Cl. 128-24.
Kravets, Arkady Timofeevich: *See—*
Livshits, Abram Lazarevich; Aronov, Anatoly Lzrailevich; Kravets, Arkady Timofeevich; and Sosenko, Alexandr Borisovich,3,467,807.
Krawczyk, Arthur J.: *See—*
Clark, Charles C.; and Krawczyk, Arthur J.,3,448,075.
Krawczyk, Eugeniusz Marian: *See—*
Jezewski, Mieczyslaw Stanislaw; Kawecki, Zygmunt Tadeusz; Szklarski,Ludger Miroslaw; Krawczyk, Eugeniusz Marian; and Ogorzalek, Jerzy Marian,3,424,976.
Krawczyk, Henryk S.; and Steinhagen, Hrst G., to Twin Disc, Incorporated. Power transmission and control system therefor. 3,425,293, 2-4-69, Cl. 74-360.
Krawetz, Arthur A.: *See—*
Tovrog, Theodore; and Krawetz, Arthur A.,3,434,338.
Krawiec, Donald M., to Combustion Engineering, Inc. Nuclear reactor fuel assembly. 3,475,273, 10-28-69, Cl. 176-78.
Krawitz, Jerome A. Uneven parallel bars. 3,486,750, 12-30-69, Cl. 272-63.
Kraychy, Stephen; Garland, Robert B.; Mizuba, Seth S.; and Scott, William M., to Searle, G. D., & Co.3-Alkoxy-14-oxo-17β-ol-8,14-secoestra-1,3,5(10), 9(11)-tetraenes and esters derivatives. 3,481,974, 12-2-69, Cl. 260-488.
Krayenbrink, Cornelis J., to North American Philips Company, Inc., mesne. Voltage regulator including a switching preregulator. 3,443,203, 5-6-69, Cl. 323-22.
Krcal, Zdenek; Muck, Eduard; and Krcmar, Jaroslav, to Statni Vyzkumny Ustav Kozedelny. Testing apparatus and method for sheet material. 3,477,288, 11-11-69, Cl. 73-159.
Krcmar, Jaroslav: *See—*
Krcal, Zdenek; Muck, Eduard; and Krcmar, Jaroslav,3,477,288.
Krebeck, Norman C.: *See—*
Berlinsky, Anthony A.; Varson, Robert J.; Pearson, Gordon W.; and Krebeck, Norman C.,3,484,970.
Krebs & Cie: *See—*
Perabo, Helmut, 3,453,198.
Krebs & Co. Ltd.: *See—*
Lindenmaier, Ernst E.; Jackel, Edgar; and Mathys, Ludwig G., 3,435,592.
Krebs, Edouard Charles; and Staib, Paul Henri. Aqueous electrolysis cell for saline solutions, especially of alkali chlorides. 3,464,910, 9-2-69, Cl. 204-219.
Krebs Engineers: *See—*
Melin, Deering D.; and Wilson, Peter C., 3,443,932.
Krebs, Frederick G.: *See—*
Aygun, Niyazi; and Krebs, Frederick G.,3,454,137.
Krebs, Jacob. Multi-powered magnifier. 3,458,246, 7-29-69, Cl. 350-146.
Krebs, Karlheinz: *See—*
Will, Walter; Geist, Heinz; and Krebs, Karlheinz,3,427,455.
Krebs, Karlheinz; and Rochez, Rene, to European Atomic Energy Community (Euratom). Neutron collimator with a variable passage cross section. 3,487,218, 12-30-69, Cl. 250-105.
Krebs, Leo. Guitars or like stringed musical instruments. 3,443,018, 5-6-69, Cl. 84-1.16
Krebs, Luis Soto; and Dawson, Robert J., to ESB Incorporated, mesne. Battery having two positive active materials. 3,476,610, 11-4-69, Cl. 136-107.
Krebs, Peter D.: *See—*
Bold, Eugene R.; Krebs, Peter D.; and McKeon, Patrick E.,3,431,642.
Krebs, William B., to Keystone-Seneca Wire Cloth Company. Shuttleless wire loom. 3,424,207, 1-28-69, Cl. 140-7.
Krebsbach, Friedhelm: *See—*
Karp, Johann; and Krebsbach, Friedhelm,3,430,988.
Krechman, David. Magnetic tape cartridge player with pivoted pinch roll cartridge holding means. 3,486,675, 12-30-69, Cl. 226-101.
Kreckeler, Fritz: *See—*
Gersch, Josef; Wiesner, Max; Hoffacker, Franz; Barke, Hans Joachim; Johanns, Heinz; and Kreckeler, Fritz,3,481,552.
Kreeger, Vinton L., Jr.: *See—*
Dreazy, Francis E.; and Kreeger, Vinton L., Jr.,3,486,919.
Krehbiel, John H., to Molex Products Company. Miniature pin terminal connector. 3,465,279, 9-2-69, Cl. 339-30.
Krehnbrink, Lewis W., to Cincinnati Industries, Inc. Method and machine for producing double creped paper. 3,476,644, 11-4-69, Cl. 162-111.
Kreibich, Roland E.; Freeman, Harlan G.; and Baxter, Gene F., to Weyerhaeuser Company. Method of producing an ortho-directed phenolic resin by condensing phenol and HCHO in the presence of a bivalent metal ion and then adding resorcinol, and the resultant product. 3,422,068, 1-14-69, Cl. 260-52.

Kreidel, Hans, Sr.; and Kreidel, Hans, to Inventex GmbH. Sealing ring with circular cutting edges for pipe connection. 3,466,068, 9-9-69, Cl. 285-341.
Kreidel, Hans, Sr.; and Kreidel, Hans, to Inventex GmbH. Ball-bearing swivel joint for fluid conduits. 3,473,832, 10-21-69, Cl. 285-98.
Kreidel, Hans: *See—*
Kreidel, Hans, Sr.; and Kreidel, Hans,3,466,068.
Kreidel, Hans, Sr.; and Kreidel, Hans,3,473,832.
Kreider, Edward W.; and Lavey, John A., to Babcock & Wilcox Company, The. Enclosure for vapor generator. 3,479,994, 11-25-69, Cl. 122-494.
Kreider, Lloyd A. Notching machine. 3,455,196, 7-15-69, Cl. 83-454.
Kreider, Robert W., to General Tire & Rubber Company, The. Oil extension of latices. 3,479,313, 11-18-69, Cl. 260-29.7
Kreidl, Ekkehard L.: *See—*
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L.,3,464,860.
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L.,3,470,024.
Kreidler, Alfred, to Metall-Invent S.A. Electromagnetic actuating apparatus with the armature and pole pieces having corresponding surfaces in continuous rolling contact. 3,477,049, 11-4-69, Cl. 335-276.
Kreidler, Eric R.: *See—*
Hummel, Floyd A.; Sarver, James F.; and Kreidler, Eric R.,3,458,452.
Kreidler, William E. Automatic fire extinguisher. 3,446,286, 5-27-69, Cl. 169-26.
Kreienbaum, Hubert; and Ahler, Wilhelm, to Kempner, Wilhelm. Hay-handling machine. 3,474,610, 10-28-69, Cl. 56-372.
Kreier, George J., Jr. Metallic sculptured bas-relief article and method of forming the same relief having fireproof back. 3,444,032, 5-13-69, Cl. 161-18.
Kreier, George J., Jr. Method for making low cost large thin concrete panels in seamless reinforced plastic molds. 3,479,786, 11-25-69, Cl. 52-745.
Kreimann, Herbert H.; and Rickard, Earl K., to Combustion Engineering Inc. Heat exchange system for heating mill air and for reheating stack gas subsequent to wet scrubbing. 3,447,492, 6-3-69, Cl. 110-1.
Kreimann, Herbert H.: *See—*
Rickard, Earl K.; and Kreimann, Herbert H.,3,436,786.
Kreimer, Charles C.: *See—*
Albrektson, Helge Ragnar; and Kreimer, Charles C.,3,482,364.
Kreinberg, Earl Raymond: *See—*
Grebe, Robert Karl; and Kreinberg, Earl Raymond,3,458,787.
Kreinik, Jerry M.: *See—*
Beacham, Harry Hoyt; Kreinik, Jerry M.; and Thomas, James Larue,3,441,535.
Kreinik, Jerry M., to FMC Corporation. Instant-igniting charcoal. 3,431,093, 3-4-69, Cl. 44-6.
Kreisel, Ralph R.; Mattke, Charles F.; and Prescott, Robert E., to Bell Telephone Laboratories, Incorporated. Telephone headset. 3,457,376, 7-22-69, Cl. 179-156.
Kreiselmaier, Ernst. Protection of header surfaces. 3,448,804, 6-10-69, Cl. 165-133.
Kreiselmaier, Kurt W., to Texas Instruments, Incorporated. Fuel cell electrode comprising sintered porous body impregnated with barium oxide. 3,458,361, 7-29-69, Cl. 136-120.
Kreiser, Thomas Harry, to Miles Laboratories, Inc. Separation and recovery of oligonucleotides. 3,433,782, 3-18-69, Cl. 260-211.5
Kreiss, Adolf G. H. Combined projector and catcher with separable retaining elements. 3,467,381, 9-16-69, Cl. 273-96.
Kreiss, Hulda E. Percussion instrument with vertically stepped scale. 3,477,332, 11-11-69, Cl. 84-403.
Kreissl, Franz: *See—*
Meister, Gerhard; and Kreissl, Franz,3,476,179.
Kreitzberg, James S., to Microflect Co., Inc. Tower supported microwave reflector with adjustable mount. 3,440,659, 4-22-69, Cl. 343-882.
Krejci, Danuse: *See—*
Krejci, Ota; Krejci, Danuse; Travnicek, Zdenek; and Dvorak, Jan,3,442,266.
Krejci, Joseph C., to Phillips Petroleum Company. Production of carbon black. 3,475,125, 10-28-69, Cl. 23-209.4
Krejci, Joseph C.; and Howard, Murl B., to Phillips Petroleum Company. Apparatus for producing carbon black. 3,460,911, 8-12-69, Cl. 23-259.5
Krejci, Ota; Krejci, Danuse; Travnicek, Zdenek; and Dvorak, Jan, to Vyzkumny Ustav Pletarsky. Intra-uterine contraceptive device. 3,442,266, 5-6-69, Cl. 128-130.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter, to Knapsack Aktiengesellschaft. Process for the manufacture of vinyl chloride from contaminated 1,2-dichloroethane. 3,476,955, 11-4-69, Cl. 260-656.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter, to Knapsack Aktiengesellschaft. Process for the manufacture of vinyl chloride from 1,2- dichloroethane. 3,484,493, 12-16-69, Cl. 260-656.
Krell, Alfred: *See—*
Englesberg, Julius L.; Krell, Alfred; and Otto, Walter J.,3,420,184.
Kremer, Charles J.; Lewis, Walter E. F.; and Gilden, Aaron Robert, to Atlantic Refining Company, The. Tear seal bonded polystyrene-saran laminate. 3,458,392, 7-29-69, Cl. 161-245.
Kremer, Heinrich, to Vereinigte Kesselwerke Aktiengesellschaft. Torque compensating supporting arrangement. 3,456,605, 7-22-69, Cl. 110-35.
Kremer, Heinrich, to Vereinigte Kesselwerke A.G. Incinerator. 3,469,544, 9-30-69, Cl. 110-35.
Kremer, Joseph H.; and Ashford, Jack, to Natcon Chemical Company, Inc. Method for straightening hair and composition of matter for use therewith. 3,470,887, 10-7-69, Cl. 132-7.
Kremer, Marcelle, to Commissariat a l'Energie Atomique. Method of separation of radium. 3,449,065, 6-10-69, Cl. 23-22.
Kremer, Ross A.: *See—*
Kilsheimer, John R.; and Kremer, Ross A.,3,468,919.
Kremidas, James R.; and Kantz, Don B., to Bendix Corporation, The. Pressure limiting device. 3,433,241, 3-18-69, Cl. 137-112.
Kremith, Roland D., to Giannini Scientific Corporation. Method of providing malleable metal coatings on particles of lubricants. 3,468,699, 9-23-69, Cl. 117-100.
Kremm, Georges F., deceased; and Kremm, Virginia; executor of said. Process for pickling metal. 3,443,991, 5-13-69, Cl. 134-3.
Kremm, Virginia: *See—*
Kremm, Georges F., deceased; and Kremm, Virginia; executor of said,3,443,991.
Kremp, Rudolf; Wagner, Karl; Engelsmann, Dieter; and Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Photographic camera for daylight and flash operation. 3,463,069, 8-26-69, Cl. 95-11.5
Krempel, Fritz; and Stoferle, Theodor, to Huller, Karl, GmbH. Conveying apparatus. 3,478,859, 11-18-69, Cl. 198-19.
Krempl, Engelbert: *See—*
Muller, Heinz; and Krempl, Engelbert,3,459,649.
Kren, John G.; Regh, Joseph; and Seto, David K., to International Business Machines Corporation. Technique for obtaining isolated integrated circuits. 3,419,956, 1-7-69, Cl.
Krenke, Vincent Gerald, to Branson Instruments, Incorporated. Electrical generator for energizing a source of ultrasonic energy. 3,487,237, 12-30-69, Cl. 310-8.1
Krenke, Vincent G., to Casco Products Corporation. Delayed action circuit controller. 3,433,969, 3-18-69, Cl. 307-10.
Krenz, Joseph H. Hub and spoke construction for wire wheels. 3,473,847, 10-21-69, Cl. 301-57.
Krenzer, John, to Velsicol Chemical Corporation. 1,2,4-Oxadiazolidines. 3,437,664, 4-8-69, Cl. 260-307.
Krenzler, Leo M. Foam-filled boat hull. 3,435,470, 4-1-69, Cl. 9-6.
Krepp, John D.; and Mackey, Eugene L., to P & F Industries, Inc., mesne. Stacker. 3,447,695, 6-3-69, Cl. 214-6.
Krepps, James Edgar, Jr., to Tarzian, Sarkes, Inc. Gear reducer. 3,422,687, 1-21-69, Cl. 74-10.8
Kresge, Alfred N.: *See—*
Fernald, Herbert B.; Gall, William; and Kresge, Alfred N.,3,477,819.
Fernald, Herbert B.; Gwynn, Bernard H.; and Kresge, Alfred N.,3,482,000.
Hurley, Daniel J.; Kresge, Alfred N.; Rosenthal, Robert W.; and Williamson, Roger C.,3,437,573.
Kreske, Gerald H.: *See—*
Cappell, Charles W.; and Kreske, Gerald H.,3,423,569.
Kreske, Walter J.: *See—*
Ludwig, David R.; and Brodeur, Lester R., 3,443,205.
Krespan, Carl G., to Du Pont de Nemours, E. I., and Company. Polyfluorinated imines and β-amino-α,β- unsaturated nitriles and their preparation. 3,475,481, 10-28-69, Cl. 260-465.5
Kress, Charles E., to Collins Radio Company. Digitalized shaft rotation direction control. 3,465,217, 9-2-69, Cl. 318-18.
Kress, James Henry; and Hunck, Billie Gene, to Deere & Company. Auxiliary hydrostatic front wheel drive system with drive motors connected fo0r parallel or series operation. 3,481,419, 12-2-69, Cl. 180-44.
Kress, James Henry; and Lemons, David Forrest, to Deere & Company. Combined variable-speed and planetary drive. 3,479,908, 11-25-69, Cl. 74-681.
Kress, Ralph H.: *See—*
Breon, Pearl L.; Kress, Ralph H.; Medley, Jackson C.; Eilers, Elvin L.; and Kostas, James M.,3,486,576.
Kress, Ralph H. Load transferring system for multi-axle vehicles. 3,441,102, 4-29-69, Cl. 180-22.
Kress, Ralph H.; and Kostas, James M., to Caterpillar Tractor Company. Lubrication means for a planetary final drive assembly. 3,477,547, 11-11-69, Cl. 184-63.
Kress, Ralph H.; Medley, Jackson C.; and Merritt, Donald E., to Caterpillar Tractor Company. Bottom dump door mechanism and two-station control. 3,427,075, 2-11-69, Cl. 298-35.

Kresse, Heinz A.: *See—*
Krause, Walter; Soldner, Richard E.; and Kresse, Heinz A.,3,470,868.

Kresse, Herman J.; and Alix, Joe F., to Continental Oil Company. Curtain coating process and apparatus. 3,462,290, 8-19-69, Cl. 117-65.2

Kresta, Vaclav: *See—*
Koubik, Milan; Kresta, Vaclav; and Valenta, Jiri,3,458,543.

Krestel, Erich; and Rainer, Erich, to Siemens Aktiengesellschaft. Speed control circuit for electronically commutated DC motor. 3,440,506, 4-22-69, Cl. 318-138.

Kretchman, Charles M.; and Spangler, Fred W., to Eastman Kodak Company. Photographic elements having silver halide emulsion layers coated adjacent to mordant-dye layers. 3,449,122, 6-10-69, Cl. 96-84.

Kretsch, Kenneth P.; and Lyons, Edward F., to Bell Telephone Laboratories, Incorporated. Monitoring and control system. 3,435,416, 3-25-69, Cl. 340-163.

Kretschmer, Alfred: *See—*
Benteler, Erich; and Kretschmer, Alfred,3,445,195.

Kretz, Marcel, to Giravions Dorand. Jet flap controlling means. 3,481,560, 12-2-69, Cl. 244-42.

Kretz, Robert; and Hosch, Ludwig, to Rohm & Haas G.m.b.H. Plastic scintilliator. 3,457,180, 7-22-69, Cl. 252-301.2

Kretzmer, Ernest R., to Bell Telephone Laboratories, Incorporated. Circuit for enabling simultaneous transmission in both directions on a two-wire line. 3,479,468, 11-18-69, Cl. 179-81.

Kretzmer, Ernest R.; Mecklenburg, Paul; Rice, Donald W.; and Ryan, William, to Bell Telephone Laboratories, Incorporated. Data processing system having a bidirectional storage medium. 3,421,149, 1-7-69, Cl. 340-172.5

Kreuchen, Karl Heinz Robert Christian, to Electric & Musical Industries Limited. Electron discharge device with a gettering and collecting electrode. 3,476,967, 11-4-69, Cl. 313-30.

Kreuchen, Karl Heinz Robert Christian, to Electric & Musical Industries Limited. Electron discharge devices having inner and outer insulating annular projections at the gun end of the device. 3,484,642, 12-16-69, Cl. 313-257.

Kreuchen, Karl Heinz Robert Christian; and Dixon, Norman Edward, to Electric & Musical Industries Limited. Electron discharge device having at least one electrode mounted by a meander-type insulator. 3,449,617, 6-10-69, Cl. 315-5.34

Kreuder, Hans-Joachim: *See—*
Ehring, Heinz; Peltzer, Bernd; and Kreuder, Hans-Joachim,3,471,425.

Kreuger, Carl H. Meat tray. 3,438,507, 4-15-69, Cl. 211-71.

Kreuger, Frederik Hendrik, to N.V. Nederlandsche Kabelfabrieken. High voltage cable joint. 3,485,935, 12-23-69, Cl. 174-88.

Kreusch, Edward G.; and Morrison, Edwin A., to Culligan, Inc. Recirculating water treatment and control system. 3,450,265, 6-17-69, Cl. 210-140.

Kreuter, Kenneth G.: *See—*
Berleyoung, Walter J.; Kreuter, Kenneth G.; and Mueller, Klaus P.,3,433,413.

Kreuter, Kenneth G., to Robertshaw Controls Company. Diaphragm valve mounted in a control knob. 3,443,580, 5-13-69, Cl. 132-315.

Kreuter, Kenneth G., to Robertshaw Controls Company. Pressure responsive control device. 3,447,569, 6-3-69, Cl. 138-46.

Kreuter, Kenneth G., to Robertshaw Controls Company. Electrically modulated pressure regulating and monitoring means. 3,482,588, 12-9-69, Cl. 137-85.

Kreuter, Kenneth G.; and Smith, Larry S., to Robertshaw Controls Company. Linear and rotary direct current stepping motors and control system. 3,453,510, 7-1-69, Cl. 318-18.
Perkins, Charles H.; and Kreuter, Kenneth G.,3,458,269.

Kreutzelman, Harm: *See—*
De Boer, Douwe Mindert; Bosman, Willem Freddrik; Croymans, Jacques Johannes Hendrik; and Kreutzelman, Harm,3,453,465.

Kreuz, Donald F.; and Kibbel, William H., Jr., to FMC Corporation. Well cleaning with peracetic acid. 3,470,959, 10-7-69, Cl. 166-307.

Kreuz, Kenneth L.: *See—*
Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L.,3,458,582.
Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L.,3,466,326.

Kreuzer, Julius Earl: *See—*
Trachtenberg, Robert S.; and Kreuzer, Julius Earl,3,428,284.

Kreuzer, Justin L., to Perkin-Elmer Corporation, The. Coherent light optical system yielding an output beam of desired intensity distribution at a desired equiphase surface. 3,476,463, 11-4-69, Cl. 350-189.

Kreuzpaintner, Josef Albert: *See—*
Bleibtreu, Alexander; and Kreuzpaintner, Josef Albert,3,485,965.

Krevit, Rita R. Floor member for animal barn. 3,455,279, 7-15-69, Cl. 119-28.

Krey, Charles F., to Oregon Metallurgical Corporation. Method of manufacturing articles from particulate metal masses. 3,472,656, 10-14-69, Cl. 75-214.

Krias, Aristides: *See—*
D'Ercole, Augustine; Krias, Aristides; and Tewey, Robert,3,467,528.

Krickovich, Eli G. Snow remover with melting means. 3,464,128, 9-2-69, Cl. 37-12.

Kridle, Charles E. Demountable containers and bases and panel joints thereof. 3,477,604, 11-11-69, Cl. 217-12.

Krieck, James H. System for increasing the efficiency of internal combustion engines. 3,463,132, 8-26-69, Cl. 123-119.

Krieg, Galen W. Coupling with bonded liner. 3,427,050, 2-11-69, Cl. 285-55.

Krieg, Galen W., to Krieg, Wayne, Co., Inc. Pipe coupling having bonded liner. 3,441,294, 4-29-69, Cl. 285-55.

Krieg, Thomas J.; and Kapp, Gerald E., to General Motors Corporation. Engine driven transmission and controls. 3,436,989, 4-8-69, Cl. 74-864.

Krieg, Warren C. Fishing lure spreader. 3,421,250, 1-14-69, Cl. 43-42.74

Krieg, Wayne, Co., Inc.: *See—*
Krieg, Galen W., 3,441,294.

Kriegel, Bernard, 1/10 each to Lamphere, Jean K., and Kammerer, Archer W., Jr., and 3/10 to Kammerer, Archer W. Power generating system. 3,487,228, 12-30-69, Cl. 290-52.

Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vesvolod, to Xerox Corporation. Photoelectrophoretic imaging method including contacting the imaging suspension with a large surface of a flexible electrode. 3,474,019, 10-21-69, Cl. 204-181.

Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vsevolod, to Xerox Corporation. Photoelectrophoretic imaging system utilizing a programmed potential application. 3,448,025, 6-3-69, Cl. 204-181.

Krieger, George R., to Byrd Industries, Inc. Foot actuated remote control unit for fishing motors. 3,467,798, 9-16-69, Cl. 200-86.5

Krieger, Herbert B.; and Wilson, Kenneth A., to American Chain & Cable Company, Inc., mesne. Steering control system for unmanned vehicles. 3,482,644, 12-9-69, Cl. 180-98.

Krieger, Kurt. Gas burners. 3,445,175, 5-20-69, Cl. 431-328.

Krieger, Larry L., to International Playtex Corporation. Differential action girdle. 3,459,193, 8-5-69, Cl. 128-541.

Krieger, Marvin, to Fiber Industries, Inc. Nonwoven fabric laminate material and method of fabricating a shoe therefrom. 3,484,881, 12-23-69, Cl. 12-146.

Krieger, Oskar. Cover arrangement for closing and sealing a pressure vessel. 3,438,541, 4-15-69, Cl. 220-46.

Krieger, Paul E.: *See—*
Trepanier, Donald L.; and Krieger, Paul E.,3,428,631.

Krienke, Marcus E., to Dow Chemical Company, The. Volumetric sampling. 3,438,262, 4-15-69, Cl. 73-422.

Kriesen, Dennis G., to Addressograph-Multigraph Corporation. Compacting device for tape loops. 3,481,522, 12-2-69, Cl. 226-109.

Kriger, Jury Arkadievich: *See—*
Tobolov, Petr Nikitich; Kriger, Jury Arkadievich; Litvinov, Ivan Petrovich; Bashirov, Ismagil Gareevich; and Fildshtein, Mikhail Viktorovich,3,451,659.

Krijl, Gerritt: *See—*
Engelsman, Jan Johannes; Krijl, Gerritt; and Baeyens, Petrus,3,483,100.

Krijtenburg, Gerben Sjoerd: *See—*
Gie, Ong Tjing; Krijtenburg, Gerben Sjoerd; and Nijhof, Berend Jan,3,428,416.

Krikau, Frederick G.: *See—*
Taylor, Robert A.; and Krikau, Frederick G.,3,434,797.

Krikke, Minne: *See—*
Dijken, Reinder Hendrik; Jager, Jolle; and Krikke, Minne,3,432,701.

Krikorian, Nerses H.: *See—*
Krupka, Milton C.; Giorgi, Angelo L.; Krikorian, Nerses H.; and Szklarz, Eugene G.,3,482,940.

Krimm, Heinrich; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of organic carbonic acid esters of polyhydroxy compounds containing isocyanato groups. 3,458,475, 7-29-69, Cl. 260-47.

Krimmel, Carl Peter, to Searle, G. D., & Co. Pyridinecarboxylic acid esters of pyridinedimethanols. 3,432,510, 3-11-69, Cl. 260-295.5

Krimmel, Carl Peter, to Searle, G. D., & Co. Adamantyl dialkylaminoalkylcarbamates. 3,452,082, 6-24-69, Cl. 260-482.

Krimmel, Carl Peter, to Searle, G. D., & Co. Adamantyl esters and amides of pyridinecarboxylic acids. 3,464,998, 9-2-69, Cl. 260-295.5

Krimmel, Carl Peter, to Searle, G. D., & Co. Pyridinecarboxylic acid esters of benzenehexol. 3,479,364, 11-18-69, Cl. 260-295.

Kring, Elbert V., to Du Pont de Nemours, E. I., and Company. Fuel cell employing an acidic catholyte containing hydrogen peroxide and a pyrophosphate. 3,446,671, 5-27-69, Cl. 136-86.

Krinke, Alvern J. Storable protective headgear, 3,440,660, 4-29-69, Cl. 2-3.

Krinke, Alvern J. Lawnmower. 3,465,505, 9-9-69, Cl. 56-25.4

Kripak, Leonid: *See—*
Barlow, Gordon A.; Kripak, Leonid; and Disko, Harry,3,445,959.
Kripak, Leonid; and Glass, Marvin I., to Glass, Marvin, & Associates. Sound mechanism. 3,473,260, 10-21-69, Cl. 46-232.
Glass, Marvin I.; and Kripak, Leonid,3,419,994.
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid,3,442,512.
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid,3,479,035.
Kripl, Josef F.: *See—*
Kittredge, Raymond E.; Levy, Kurt; and Kripl, Josef F.,3,470,629.
Krips, Jack E., to Martin-Marietta Corporation. Dual electronic multiplier for multiplying an analog signal by two independent multiplying signals using a single operational amplifier. 3,484,595, 12-16-69, Cl. 235-194.
Krishnan, Kamala S.: *See—*
Chappel, Raymond M.; Krishnan, Kamala S.; and Van Hise, Charles W.,3,465,421.
Krishnaswamy, Deenahalli S.: *See—*
Denny, Jere Robert; and Krishnaswamy, Deenahalli S.,3,457,065.
Krispinsky, Alois S.; Thomas, Howard P.; and Hamrock, Alfred R., to General Fireproofing Company, The. Drawer suspension. 3,451,730, 6-24-69, Cl. 308-3.8
Kristal, Robert M. Combination paperweight and letter opener. 3,432,926, 3-18-69, Cl. 30-294.
Kristiansen, Knud Moller, to Interlego A.G. Cog wheel for a model building set having blocks with evenly spaced projections. 3,461,601, 8-19-69, Cl. 46-16.
Kristinsson, Haukur: *See—*
Griffin, Gary W.; and Kristinsson, Haukur,3,445,357.
Kristoff, William Robert: *See—*
Jacobsen, Ronald Lowell; Kristoff, William Robert; Ohren, Tom H.; and Spatz, Dale,3,482,947.
Kristy, John A.; and Rinehart, Robert D., to United Aircraft Corporation. Polarity sensitive encoder. 3,471,850, 10-7-69, Cl. 340-347.
Kritchevsky, Theodore H., to Hodag Chemical Corporation. Production of light-colored fatty- derived amino-containing compounds. 3,468,904, 9-23-69, Cl. 260-309.6
Kritikos, Athanasios: *See—*
Friess, Klaus; Ulrich, Richard; and Kritikos, Athanasios,3,476,688.
Kritzer, Richar W., to Peerless of America, Incorporated. Heat exchangers. 3,431,973, 3-11-69, Cl. 165-172.
Kritzer, Richard W., to Peerless of America, Incorporated. Heat exchangers. 3,460,613, 8-12-69, Cl. 165-183.
Kritzler, Helmuth: *See—*
Wagner, Kuno; Scheurlen, Hans; and Kritzler, Helmuth,3,448,169.
Krivenkov, Vladimirovich: *See—*
Maranchak, Vasily Makarovich; Veisky, Stanislav Petrovich; and Krivenkov, Vladimirovich,3,444,433.
Krivit, Lawrence R. Pin-driving device. 3,465,835, 9-9-69, Cl. 173-170.
Krizak, Eugene J.; Porter, Lawrence C.; and Stroud, Richard M. Mixing device. 3,482,822, 12-9-69, Cl. 259-8.
Krizka, Jerry A.; and Fox, James F., to Continental Can Company, Inc. Dispensing container with collapsible compartment. 3,433,391, 3-18-69, Cl. 222-95.
Krizka, Jerry A.: *See—*
Turner, Howard M.; and Krizka, Jerry A.,3,474,754.
Krizman Manufacturing Co., Inc.: *See—*
Krizman, Steve, 3,448,722.
Krizman, Steve, to Krizman Manufacturing Co., Inc. Painting device. 3,448,722, 6-10-69, Cl. 118-207.
Krjukov, Viktor Mikhailovich: *See—*
Tevis, Petr Isaakovich; Kostochkin, Vladimir Nikolaevich; Ananev, Vladimir Alexandrovich; Krjukov, Viktor Mikhailovich; and Mitin, Dmitry Mikhailovich,3,467,179.
Krnac, Joseph; and McNeal, James, to Zeeman Manufacturing Company. Felling machine. 3,483,835, 12-16-69, Cl. 112-212.
Krobath, Hans, to Human Resources Foundation. Capacitive device responsive to water vapor content of a gas including insulated conductive wire electrodes forming a grid. 3,424,977, 1-28-69, Cl. 324-61.
Krochalis, Robert W.: *See—*
Nelson, Raymond L.; and Krochalis, Robert W.,3,482,496.
Krock, Richard H.: *See—*
Ginsberg, Michael J.; and Krock, Richard H.,3,428,450.
Krock, Richard H.; and Jones, Clintford R., to Mallory, P. R., & Co., Inc. Beryllium-aluminum composite. 3,456,322, 7-22-69, Cl. 29-182.1
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R., to Mallory, P. R., & Co., Inc. Beryllium-aluminum-silicon composite. 3,438,751, 4-15-69, Cl. 29-182.1
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R., to Mallory, P. R., & Co., Inc. Beryllium-silver-tin composite. 3,438,752, 4-15-69, Cl. 29-182.1
Zdanuk, Edward Joseph; and Krock, Richard Howard,3,467,517.
Zdanuk, Edward J.; and Krock, Richard H.,3,423,203.
Zdanuk, Edward J.; and Krock, Richard H.,3,440,043.
Zdanuk, Edward J.; and Krock, Richard H.,3,449,120.
Krockenberger, Emil A., to National Gypsum Company. Water-base paint composition. 3,438,914, 4-15-69, Cl. 260-17.4
Kroeger, Edward R., to Warner Electric Brake & Clutch Company. Magnetically released friction brake. 3,470,987, 10-7-69, Cl. 188-171.
Kroemer, Herbert, to Varian Associates. Heterojunctions and domain control in bulk negative conductivity semiconductors. 3,467,896, 9-16-69, Cl. 317-234.
Kroening, Walter H. Self-centering gauge ring. 3,480,301, 11-25-69, Cl. 285-119.
Kroenke, William J., to Goodrich, B. F., Company, The. Processing aids in preparation of NBR flexible magnets. 3,428,603, 2-18-69, Cl. 252-62.54
Kroenke, William J., to Goodrich, B. F., Company, The. Processing aids in preparation of SBR flexible magnets. 3,467,598, 9-16-69, Cl. 252-62.54
Kroes, Gerardus Henricus; Siggel, Erhard; Schopf, Albert; and Meyer, Gerhard, to Vereinigte Glanzstoff-Fabriken AG. Process for thermally stabilizing isotactic polymers with (I)alkali metal or alkaline earth metal hydroxide and (II)conventional thermal stabilizers. 3,429,849, 2-25-69, Cl. 260-45.85
Kroes, Gerardus H., to American Enka Corporation. Process for preparing amorphous germanium dioxide. 3,455,645, 7-15-69, Cl. 23-22.
Kroetch, Arthur A. Body conversion and tailgate assembly for a load supporting body. 3,428,359, 2-18-69, Cl. 296-10.
Krofta, Milos. Device for automatically recording and regulating the degree of beating of suspension of fibrous material. 3,449,205, 6-10-69, Cl. 162-252.
Krog, Niels: *See—*
Vrang, Carl; Krog, Niels; and Lauridsen, Jens Birk,3,479,189.
Kroger, Hans A.: *See—*
Cordes, Hugo H.; and Kroger, Hans A.,3,468,222.
Krohl, Robert James; and Wajda, Edward Stanley, to International Business Machines Corporation. Diffused-epitaxial scanistors. 3,437,890, 4-8-69, Cl. 317-235.
Krohm, Fred A., to Anderson Company, The. Clutch assembly for windshield wiper arm. 3,429,597, 2-25-69, Cl. 287-53.
Krohm, Fred A.; and Rieckenberg, George W., to Anderson Company, The. Windshield wiper arm and blade assembly. 3,431,579, 3-11-69, Cl. 15-250.32
Krohn, Harvey W.: *See—*
Watts, Claude H.; Shields, Arthur A.; and Krohn, Harvey W.,3,446,266.
Krohn, Henry W.: *See—*
Boyer, Ralph K.; Eyedam, Homer F.; and Krohn, Henry W.,3,422,837.
Krol, Adam T.: *See—*
Toland, William C.; and Krol, Adam T.,3,480,435.
Krol, Harry J.; and Ryder, Francis E., to Illinois Tool Works, Inc. Mounting device for cylindrically shaped electrical components. 3,425,023, 1-28-69, Cl. 339-59.
Krol, Lambertus H.; Van Breen, Adriaan W.; and De Jong, Martijn H., to Shell Oil Company. Polyisoprene with branched-chain monocarboxylic acid for improving processability. 3,471,432, 10-7-69, Cl. 260-31.2
Krol, Ronald A., to General Electric Company. Adjustable sliding brush transformer. 3,466,583, 9-9-69, Cl. 336-60.
Krol, Stanley J., to United-Carr Incorporated. Electrical connector. 3,426,317, 2-4-69, Cl. 339-177.
Krol, Vladimir Alexandrovich: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.
Krolik, Paul P.; and Perlman, Theodore H. Vibratory devices for cleaning dentures or the like. 3,432,148, 3-11-69, Cl. 259-72.
Kroll, Alfred: *See—*
Goodman, Abraham H.; Pettinato, Edward F.; Kroll, Alfred; and Lipka, David H.,3,475,182.
Kroll, Barney M., to Motorola, Inc. Delta modulator using operational integration. 3,461,406, 8-12-69, Cl. 332-11.
Kroll, Wolfram R.: *See—*
Kuntz, Irving; and Kroll, Wolfram R.,3,459,721.
Kroll, Wolfram R. Electrode catalyst for electrochemical cell prepared with organoaluminum reducing agent. 3,432,362, 3-11-69, Cl. 136-120.
Kroll, Wolfram R., to Esso Research and Engineering Company. Metal carbonyl catalyst and hydrogenation process therefor. 3,439,054, , Cl. 260-666.

Kroll, Wolfram R., to Esso Research and Engineering Company. Aluminum chelate preparation. 3,455,979, 7-15-69, Cl. 260-448.

Kroll, Wolfram R., to Esso Research and Engineering Company. Organo aluminum-fluoroacetylacetonates and preparation thereof. 3,463,800, 8-26-69, Cl. 260-448.

Krolopp, Otto C.: *See—*
Nowak, Leon J., Jr.; Robinson, Joseph L.; Krolopp, Otto C.; Keenan, Joseph H.; and Smith, Joseph L.,3,486,240.

Kromer, Karl: *See—*
Noack, Rolf; and Kromer, Karl,3,450,017.

Kromschroder, G., Aktiengesellschaft: *See—*
Drabik, Josef, 3,441,295.

Kronacher, Hermann: *See—*
Hoger, Herwig; and Kronacher, Hermann,3,453,070.

Kronast, Benedikt: *See—*
Hora, Heinrich; and Kronast, Benedikt,3,444,377.

Kronbetter, Clarence Walter, to Ball Brothers Company, Incorporated. Weather strip. 3,462,903, 8-26-69, Cl. 52-400.

Krone, Gustav, to Krone Kommanditgesellschaft. Building facing made of weather-resistant face plates. 3,435,573, 4-1-69, Cl. 52-272.

Krone Kommanditgesellschaft: *See—*
Krone, Gustav, 3,435,573.

Kronenthal, Richard L.: *See—*
Gister, Sidney; and Kronenthal, Richard L.,3,455,776.

Kronenthal, Richard L.; and Rich, Ernest J., Jr., to Ethicon, Inc. Process for improving the knot strength of an extruded collagen strand. 3,478,140, 11-11-69, Cl. 264-202.

Kroner, Michael: *See—*
Wilke, Gunther; Muller, Ernst Willi; Kroner, Michael; Heimbach, Paul; and Breil, Heinz,3,450,732.

Krones, Friedrich: *See—*
Greiner, Joachim; and Krones, Friedrich,3,430,133.
Greiner, Joachim; and Krones, Friedrich,3,435,336.

Kronfeld, Leonard E., to Nortronics Company, Inc., The. Magnetic transducer with clamped body sections to hold core pieces. 3,484,562, 12-16-69, Cl. 179-100.2

Kronfeld, Leonard E., to Nortronics Company, Inc., The. Magnetic transducer. 3,484,564, 12-16-69, Cl. 179-100.2

Kronfeld, Leonard E.; and Hogan, John W., to Nortronics Company, Inc., The. Magnetic transducer assembly with nonmagnetic core-holding inserts. 3,484,565, 12-16-69, Cl. 179-100.2

Krongelb, Sol, to International Business Machines Corporation. Method of growing doped semiconductor material from a source which includes an unstable isotope which decays to a dopant element. 3,451,864, 6-24-69, Cl. 148-1.5

Kronick, Joseph S., to Capitol Temptrol Corp. Water chiller with improved freeze-up protection. 3,443,394, 5-13-69, Cl. 62-139.

Kronig, Walter; and Grolig, Johann, to Farbenfabriken Bayer Aktiengesellschaft. Electrolytic process for the preparation of olefine oxides. 3,451,905, 6-24-69, Cl. 204-80.

Kronig, Walter; Halcour, Kurt; and Scharfe, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for the selective hydrogenation of pyrolysis gasoline. 3,459,657, 8-5-69, Cl. 208-143.

Kronig, Walter; Mayrhofer, Wilhelm; Scharfe, Gerhard; Schwerdtel, Wulf; and Halcour, Kurt, to Farbenfabriken Bayer Aktiengesellschaft. Process for the treatment by hydrogenation of C_4-hydrocarbons containing butadiene and N-but-1-ene. 3,485,887, 12-23-69, Cl. 260-677.

Kronlage, John W., to Texas Instruments, Incorporated. Monolithic circuits having matched complementary transistors, sub-epitaxial and surface resistors, and N and P channel field effect transistors. 3,474,308, 10-21-69, Cl. 317-235.

Kronlage, John W.: *See—*
Wisman, Emery C.; and Kronlage, John W.,3,446,659.

Kronoff, Clarence R., to Crompton & Knowles Corporation. Edge forming device. 3,456,692, 7-22-69, Cl. 139-118.

Kronprinz Aktiengesellschaft: *See—*
Leyer, Gunter, 3,451,457.

Krook, Rune: *See—*
Andersson, Carl Erik; and Krook, Rune,3,457,977.
Andersson, Carl-Erik; and Krook, Rune,3,457,976.

Kropp, Charles J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,466,418.

Kross, Johann, to Voith Getriebe KG. Torque measuring device. 3,456,486, 7-22-69, Cl. 73-1.

Krossa, Kenneth D.: *See—*
Ananiades, Constantine S.; and Krossa, Kenneth D.,3,482,170.

Krossa, Kenneth D.; and Behr, Michael I., to Burroughs Corporation. Automatic gain level stepping system. 3,430,215, 2-25-69, Cl. 340-174.1

Krostewitz, Wolfgang, to American Radiator & Standard Sanitary Corporation. Concentration fuel cell. 3,451,854, 6-24-69, Cl. 136-86.

Kroth, Neil W.: *See—*
Cryder, John R.; and Kroth, Neil W.,3,478,646.

Kroth, Neil W., to Caterpillar Tractor Company. Quick drop valve for bulldozer blade hydraulic controls. 3,448,685, 6-10-69, Cl. 91-436.

Kroupa, Robert J., to Cascade Corporation. Side-shift apparatus for a lift truck. 3,460,700, 8-12-69, Cl. 214-730.

Krouse, John P.: *See—*
Bangerter, Kenneth R.; Ulbing, Otmar M.; and Krouse, John P.,3,450,214.

Kroutil, Larry O.: *See—*
Gilbert, James E.; Kroutil, Larry O.; and Ingham, Gary G.,3,445,963.

Kroyer, Karl Kristian Kobs: *See—*
Repsdorph, Inger; Kroyer, Karl Kristian Kobs; and Damgard-Iversen, Jorgen, 3,477,874.

Kroyer, Karl Kristian Kobs: *See—*
Repsdorph, Inger; Kroyer, Karl Kristian Kobs; and Damgard-Iversen, Jorgen,3,477,874.

Kroyer, Karl Kristian Kobs. Method of manufacturing a whitish granular aggregate for building purposes from a crystallisable, vitreous material. 3,458,301, 7-29-69, Cl. 65-21.

Kroyer, Karl Kristian Kobs. Method of manufacturing relatively high calcia- silica ceramic materials. 3,458,331, 7-29-69, Cl. 106-45.

Krubiner, Alan Martin; and Oliveto, Eugene Paul, to Hoffmann-La Roche, Inc.Ethylenedioxy substituted benz [e] indenes. 3,459,772, 8-5-69, Cl. 260-340.9

Kruck, Peter: *See—*
Kleist, Walter; Moll, Franz; Kruck, Peter; and Hellmig, Ehrhard,3,436,217.

Krucker, Werner: *See—*
Muller, Hermann Georg; and Krucker, Werner,3,465,553.

Krucoff, Darwin, to McDonnell Douglas Corporation, mesne. Capillary ionization gas detector and analyzer using timed interval current fluctuations. 3,445,757, 5-20-69, Cl. 324-33.

Krueger, Albert P.: *See—*
Fessler, Julius H., 3,478,889.

Krueger, Arthur Frederic: *See—*
Rai, Charanjit; and Krueger, Arthur Frederic,3,454,543.

Krueger, Cecelie M.: *See—*
Krueger, Theodore H.,3,465,629.

Krueger, Clement C.: *See—*
White, Edward S.; Krueger, Clement C.; and Rosenthal, Donald S.,3,460,146.

Krueger, Curtiss C.; and Worley, Ronald C., to Ryan Aeronautical Co., The. Transistor microwave generator with second harmonic output. 3,439,287, 4-15-69, Cl. 331-47.

Krueger, Edward C., to Hammond Machinery Builders, Inc. Power operated electro-chemical fixture. 3,461,059, 8-12-69, Cl. 204-297.

Krueger, Harvey R.: *See—*
Reynolds, Donald S.; and Krueger, Harvey R.,3,441,176.
Reynolds, Donald S.; and Krueger, Harvey R.,3,479,949.
Reynolds, Donald S.; Krueger, Harvey R.; and Morgan, Arthur A.,3,443,508.

Krueger, Loren L., to Honeywell Inc. Safe leak valve. 3,428,073, 2-18-69, Cl. 137-312.

Krueger, Robert C., to PPG Industries, Inc. Non-ski finish. 3,450,563, 6-17-69, Cl. 117-161.

Krueger, Robert E.: *See—*
Baum, Leo; and Krueger, Robert E.,3,468,316.

Krueger, Theodore H., deceased0 (by Krueger, Cecelie M.0Moore, Howard L.0Krueger, Theodore H., Jr0Chemical Bank New York Trust Company; executors), to Better Packages, Inc. Motor driven tape dispenser. 3,465,629, 9-9-69, Cl. 83-205.

Krueger, Theodore H., Jr: *See—*
Krueger, Theodore H.,3,465,629.

Krueger, Theodore H., Jr: *See—*
Krueger, Theodore H.,3,465,629.

Krueger, Theodore H., to Better Packages, Inc. Hand tape dispenser tool. 3,466,215, 9-9-69, Cl. 156-378.

Kruerke, Ulrich K.: *See—*
Reimlinger, Hans K.; De Ruiter, Ernest H.; and Kruerke, Ulrich K.,3,444,253.

Krug, Charles C.: *See—*
Stephens, Frederick N.; and Krug, Charles C.,3,426,726.

Krug, Hans-Dietrich, to Freudenberg, Carl, K.G. Production of foamed articles. 3,468,991, 9-23-69, Cl. 264-45.

Krug, Pavel: *See—*
Turner, John Harry Wallice; Frith, England; and Krug, Pavel,3,481,828.

Krug, Robert W., to Zenith Radio Corporation. Automatic chrominance control system. 3,435,131, 3-25-69, Cl. 178-5.4

Kruger, Elmer H. Metering device for mixer. 3,485,415, 12-23-69, Cl. 222-132.

Kruger, Frederick B.: *See—*
Munroe, William A.; and Kruger, Frederick B.,3,427,874.

Kruger, Gerd: *See—*
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid,3,470,152.

Kruger, Gerhard, to Polymer Corporation, Limited. Rubber particles coated with starch and talc. 3,436,243, 4-1-69, Cl. 117-16.

Kruger, Gunter; Sehgal, Surendra N.; and Vezina, Claude, to American Home Products Corporation. Process for the preparation of 3-(lower alkyloxy)- 17-ketosteroid-3,5,7-trienes. 3,471,530, 10-7-69, Cl. 260-397.4
Kruger, Gunther, to American Home Products Corporation. Process for preparing estrone. 3,472,880, 10-14-69, Cl. 260-397.4
Kruger, Gunther, to American Home Products Corporation. Process for preparing estren-3-ones. 3,472,883, 10-14-69, Cl. 260-397.3
Kruger, Gunther; and Marshall, David J., to American Home Products Corporation. Process for preparing estone and the intermediates obtained therefrom. 3,462,424, 8-19-69, Cl. 260-239.55
Kruger, Gunther; and Marshall, David J., to American Home Products Corporation. Process for preparing estradiol 17-trimethylacetate and intermediates obtained therefrom. 3,471,479, 10-7-69, Cl. 260-239.55
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude, to American Home Products Corporation. Equilin process. 3,445,338, 5-20-69, Cl. 195-51.
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude, to American Home Products Corporation. Process for the preparation of 3-acyloxy-17- ketosteroid-3,5,7-trienes. 3,471,527, 10-7-69, Cl. 260-397.4
Kruger, Gustav. Drive for electric clocks. 3,479,814, 11-25-69, Cl. 58-41.
Kruger, Herbert W., to Lamb-Weston, Inc. Combined freeze drying-air drying process of dehydrating food products. 3,438,792, 4-15-69, Cl. 99-199.
Kruger I., A/S: *See—*
Bye-Jorgensen, Jorgen S.; and Larsen, Gunnar H., 3,468,795.
Kruger, Julius F.: *See—*
Boden, Donald W.; and Kruger, Julius F.,3,464,656.
Kruger, Leo H.: *See—*
Evans, Raymond B.; Kruger, Leo H.; and Szymanski, Chester D.,3,463,668.
Kruger, Leo H.; and Wurzburg, Otto B., to National Starch and Chemical Corporation. Sulfation of starch fractions. 3,441,558, 4-29-69, Cl. 260-233.5
Kruger, P. Gerald: *See—*
Sampson, William B.; Britton, Richard B.; Kruger, P. Gerald; and Beth, Richard A.,3,423,706.
Kruger, Winfried, to Aktiengesellschaft Brown, Boveri & Cie. Pressure gas lubricated thrust block. 3,438,684, 4-15-69, Cl. 308-9.
Krugers, Johan Felix Jozef, to U.S. Philips Corporation, mesne. Method of detecting a carbon in the gaseous phase. 3,458,258, 7-29-69, Cl. 356-36.
Krugers, Johan Felx Jozef, to North American Philips Company, Inc. Gas chromatography detectors for producing electrical signals through a time-constant network. 3,424,559, 1-28-69, Cl. 23-254.
Kruggel, Roy W., to Whirlpool Corporation. Inert atmosphere generator. 3,421,859, 1-14-69, Cl. 23-281.
Kruglinski, Frank A.: *See—*
Miller, Joseph A.; and Kruglinski, Frank A.,3,422,969.
Kruissink, John W.: *See—*
Fossier, Ralph L.; and Kruissink, John W.,3,450,593.
Kruizenga, Jack R.; Graves, Donald C.; and Role, Harry, to Union Tank Car Company, mesne. Method of expanding a railway tank car by lengthening same. 3,479,724, 11-25-69, Cl. 29-412.
Kruke, William F.: *See—*
Beck, William A.; and Kruke, William F.,3,440,676.
Krul, Lendert Gerardus: *See—*
Greefkes, Johannes Anton; Riemens, Karel; Krul, Lendert Gerardus; and Zwijsen, Wilhelmus Antonius Joseph Marie,3,450,998.
Krulish, John A. C.: *See—*
Childs, Elbert B.; and Krulish, John A. C.,3,452,586.
Krull, Ernst; Scheibel, Josef; and Roth, Johann, to Niezoldi & Kramer GmbH. Camera construction. 3,452,658, 7-1-69, Cl. 95-11.
Krull, Irwin H.; and Sternberg, James C., to Beckman Instruments, Inc. Sample injection system. 3,426,599, 2-11-69, Cl. 73-422.
Krulls, Gerd E., to General Electric Company. liquid metal electrical collector. 3,444,408, 5-13-69, Cl. 310-227.
Krum, Alan; Ruehlemann, Herbert E.; and Scheingold, William S., to Elco Corporation. Zero insertion force connector and contact therefor. 3,474,387, 10-21-69, Cl. 339-75.
Krumbein, Fritz, to Zeiss Ikon Aktiengesellschaft. Motion picture projector. 3,447,868, 6-3-69, Cl. 352-173.
Krumbein, Fritz, to Zeiss Ikon Aktiengesellschaft. Film advancing device. 3,460,730, 8-12-69, Cl. 226-64.
Krumbein, Fritz; Becker, Dietrich; and Schottle, Ulrich, to Zeiss Ikon Aktiengesellschaft. Carrying case for a motion picture projector. 3,442,584, 5-6-69, Cl. 353-119.
Krumbein, Fritz; and Rauscher, Willy, to Zeiss Ikon Aktiengesellschaft. Film reel holder. 3,456,892, 7-22-69, Cl. 242-68.3
Krumbein, Simeon J.: *See—*
Antler, Morton; and Krumbein, Simeon J.,3,484,209.
Krumel, Richard R.: *See—*
Lloyd, Billy E.; Ungar, Israel S.; and Krumel, Richard R.,3,455,733.
Krumholz, Frank C., to Allis-Chalmers Manufacturing Company. Planter marker. 3,454,103, 7-8-69, Cl. 172--128
Krumkalsn, Eriks V.: *See—*
Gerzon, Koert; and Krumkalsn, Eriks V.,3,470,210.
Krumm, Charles G.: *See—*
Napor, Carl A.; Engel, William T.; and Krumm, Charles G.,3,457,627.
Krumm, Eugene D.: *See—*
Bakker, Lubertus; Conde, James C.; and Krumm, Eugene D.,3,486,644.
Krummel, Donald E.; and Bowles, David L., to Westinghouse Electric Corporation. Electromagnetic structures for electrical control devices. 3,444,490, 5-13-69, Cl. 335-126.
Krumreich, Charles L., to Bell Telephone Laboratories, Incorporated. Telephone set. 3,444,329, 5-13-69, Cl. 179-100.
Krup, Donald Edward: *See—*
Cox, Gerald E.; and Krup, Donald Edward,3,465,667.
Krup, Donald E., to Ideal Industries, Inc. Connector insulator. 3,483,310, 12-9-69, Cl. 174-87.
James, David T.; and Krup, Donald .,3,487,161.
Krupick, Walter J.: *See—*
Binder, Herbert; and Krupick, Walter J.,3,438,270.
Binder, Herbert; and Krupick, Walter J.,3,479,889.
Krupka, Milton C.; Giorgi, Angelo L.; Krikorian, Nerses H.; and Szklarz, Eugene G., to United States of America, Atomic Energy Commission. High pressure preparation of yttrium sesquicarbide. 3,482,940, 12-9-69, Cl. 23-208.
Krupnick, Albert C.: *See—*
Webb, James E., Administrator of the National Aeronautics and Space Administration, with respect to an invention of,; Krupnick, Albert C.; and Daniel, P. Lucero,3,429,177.
Krupp Fried. Gesellschaft mit beschrankter Haftung: *See—*
Kietz, Hans; and Johannsen, Karl Emil, 3,473,500.
Krupp, Friedr., Huttenwerke Aktiengesellschaft: *See—*
Sickbert, Adolf, 3,430,663.
Krupp, Friedrich: *See—*
Rinesch, Rudolf; and Krupp, Friedrich,3,472,500.
Krupp, William E.: *See—*
Schmidt, Frederick A.; Carlson, Oscar N.; Krupp, William E.; and Wilhelm, Harley A.,3,425,826.
Krups, Robert: *See—*
Baumann, Kurt, 3,462,833.
Kruse, Carl W.: *See—*
Gray, Roy A.; and Kruse, Carl W.,3,426,086.
Kruse, Carl W., to Phillips Petroleum Company. Polymerization. 3,437,695, 4-8-69, Cl. 260-613.
Kruse, Hans: *See—*
Langenberger, Helmut; and Kruse, Hans,3,430,012.
Kruse, James A., to Litton Systems, Inc. Conductive plastic overlay for target display. 3,440,522, 4-22-69, Cl. 323-63.
Kruse, Louis C.; and Tierney, Arthur P., to Cambridge Instrument Company, Inc. Oxygen detector. 3,450,619, 6-17-69, Cl. 204-195.
Kruse, Marvin A., to Crane, H. W., Company. Door operating mechanism. 3,435,558, 4-1-69, Cl. 49-200.
Krusinski, Joseph, to Triax Company, The. Transfer means for a load carrier in a storage system. 3,432,046, 3-11-69, Cl. 214-16.4
Krusius, Ewald Henry, to FMC Corporation. Solid alkali metal polyphosphate water conditioning composition containing hexachlorobenzene 1,2,4,5- tetrachlorobenzene. 3,451,938, 6-24-69, Cl. 252-181.
Krusko, Evelyn H. Uncompressed tampon and applicator. 3,431,909, 3-11-69, Cl. 128-285.
Krussmann, Adolf; and Voss, Joachim, to Sulzer Brothers Limited, mesne. Circuit arrangement for automatically selecting the highest voltage of a number of varying D. C. sources. 3,458,812, 7-29-69, Cl. 324-140.
Krutein, Manfred G. Sea mining method and apparatus. 3,438,142, 4-15-69, Cl. 37-195.
Krutein, Manfred G. Undersea stockpile and blending apparatus. 3,479,089, 11-18-69, Cl. 299-9.
Kruth, Andre E. Flexible ladder rendered rigid by use. 3,429,399, 2-25-69, Cl. 182-196.
Krutzikowsky, Klaus E. B. Trailer body and method of making same. 3,455,596, 7-15-69, Cl. 296-31.
Kruyt, Willem: *See—*
Van der Meer, Samuel; Kruyt, Willem; and Pouwels, Hendrik,3,482,016.
Kruzan, Harold F.; and Hetz, Heinz K., to American Meter Company, mesne. Overpressure shutoff device. 3,424,194, 1-28-69, Cl. 137-461.
Kruzel, Joseph John. Pitching and batting device. 3,469,840, 9-30-69, Cl. 273-26.
Kruzell, George R. Shock-proof telescopic gun sight mount. 3,483,623, 12-16-69, Cl. 33-50.
Kruzich, Joseph K., to Bendix Corporation, The. Foldable and compressible self-erecting devices. 3,474,488, 10-28-69, Cl. 16-180.
Krygier, Stanley James. Thumb sucking preventer. 3,442,267, 5-6-69, Cl. 128-133.
Krygowski, Matthew A., to International Business Machines Corporation. Clock pulse generator. 3,437,938, 4-8-69, Cl. 328-62.

Krygowski, Matthew A.: *See—*
Stafford, Thomas S.; and Krygowski, Matthew A.,3,453,600.
Krylov, Nickolai Ivanovich: *See—*
Konovalov, Vladimir Pavlovich; Krylov, Nickolai Ivanovich; Popov, Boris Vasilievich; and Rudakov, May Mikhailovich,3,466,961.
Krylov, Nikolai Ivanovich; Popov, Boris Vasilievich; Sidorov, Pavel Ivanovich; Saksagansky, Alexandr Teodorovich; Levitsky, Isaak Iosifovich; and Golovkina, Tatyana Borisovna, to Vsesojuzny Nauchno-Issledovatelsky i Proektno-Konsturktorsky Institut Metallurgicheskogo Mashinostroenija. Machine for tying coils and packs of iron for instance of rolled iron with wire. 3,428,096, 2-18-69, Cl. 140-93.6
Krylow, Konstanty E.; and Reimer, William A., to Automatic Electric Laboratories, Inc. Semipermanent electromechanically alterable memory. 3,474,423, 10-21-69, Cl. 340-174.
Krynicki, John. Ship propulsion including internal paddle wheel. 3,468,281, 9-23-69, Cl. 115-34.
Krynski, John E.; and Engwall, Richard E., to Ametek, Inc. Horizontal travelling belt filter. 3,477,583, 11-11-69, Cl. 210-401.
Krysiak, Henry A.: *See—*
Bernardi, Eugene L.; and Krysiak, Henry A.,3,479,952.
Krysiak, Joseph E. Design of a hollow ball to be employed in bearing. 3,485,542, 12-23-69, Cl. 308-188.
Kryske, Leon E.: *See—*
Henderson, Frank D.; and Kryske, Leon E.,3,445,744.
Kryspin, Alfred J., to Automatic Switch Company. Adjustable spring tension means. 3,431,522, 3-4-69, Cl. 335-194.
Krystof, Joseph P., to Tectonic Industries, Incorporated. Apparatus for extruding plastic strips. 3,471,898, 10-14-69, Cl. 18-13.
Krystyniak, Casimir W., to General Electric Company. Method of forming a metallic oxide article. 3,429,962, 2-25-69, Cl. 264-309.
Kryzanek, Vladimir: *See—*
Hron, Jaroslav; Kliment, Jiri; Kryzanek, Vladimir; Mirtes, Bohumil; and Vytiska, Alois,3,436,751.
Kryzer, Benjamin H.; and Hiers, James E., to Union Tank Car Company, mesne. Water conditioning system. 3,442,624, 5-6-69, Cl. 23-272.
Krzesinski, Boleslaw: *See—*
Furness, Vera I.; and Krzesinski, Boleslaw,3,449,476.
Krzewinski, Zbigniew; Franciszczak, Eugeniusz; Jerzykiewicz, Jerzy; and Kostrzewski, Janusz, to Fabryka Maszn Papierniczych. Method of continuous beating of rag mass in disk-type mills. 3,464,635, 9-2-69, Cl. 241-21.
K/S Asani: *See—*
Thomsen, Gert Vilner, 3,448,707.
Kubalek, Florence J.: *See—*
Kubalek, Milo V.,3,431,648.
Kubalek, Milo V., deceased,0 (by Kubalek, Florence J., executrix). Method of making dental impressions. 3,431,648, 3-11-69, Cl. 32-17.
Kubanke, Detlev: *See—*
Bschorr, Oskar; and Kubanke, Detlev,3,446,182.
Kubasko, Paul E.: *See—*
Shema, Bernard F.; Reilly, John P.; and Kubasko, Paul E.,3,426,134.
Kube, Leonard J., to Smith, A. O., Corporation. Method of removing scale from ferrous articles prior to coating. 3,440,082, 4-22-69, Cl. 117-49.
Kubera, Gerhard, to Teves-Thompson & Co., G.m.b.H. Method of producing metal bodies with heat-and ware-resistant surfaces. 3,461,001, 8-12-69, Cl. 148-11.5
Kubert, Ervin A.; and Allday, Reece. Smoking pipe. 3,463,167, 8-26-69, Cl. 131-202.
Kubiak, Herbert: *See—*
Klebl, Wolfram; Kubiak, Herbert; Staschewski, Harry; and Schatz, Friedrich,3,455,098.
Kubiak, Herbert; Schatz, Friedrich; and Staschewski, Harry, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Accumulator stranding machine. 3,444,679, 5-20-69, Cl. 57-59.
Kubicek, Donald H., to Phillips Petroleum Company. Addition of polyhalogenated compounds to olefinic compounds. 3,471,579, 10-7-69, Cl. 260-633.
Kubichan, Robert E.: *See—*
Saunders, Arnold E.; and Kubichan, Robert E.,3,433,611.
Kubik, James R., to General Dynamics Corporation. Controlled electroplating process. 3,429,786, 2-25-69, Cl. 204-15.
Kubik, James R., to General Dynamics Corporation. Process for fabricating high density multilayer electrical interconnections. 3,462,832, 8-26-69, Cl. 29-625.
Kubik, James S.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,220.
Kubilius, Mary, to Kubilius, Theodore J. Christmas ornament. 3,440,128, 4-22-69, Cl. 161-5.
Kubilius, Theodore J.: *See—*
Kubilius, Mary, 3,440,128.
Kubilos, Charles A., to Abex Corporation. Piston type fluid motor having separately fed piston shoes. 3,437,015, 4-8-69, Cl. 92-57.
Kubilos, Charles A.: *See—*
Coakley, James L.; and Kubilos, Charles A.,3,437,101.
Coakley, James L.; and Kubilos, Charles A.,3,447,111.
Kubinec, James J., to Fairchild Camera and Instrument Corporation. Emitter gated memory cell. 3,427,598, 2-11-69, Cl. 340-173.
Kubinek, Jiri: *See—*
Marcik, Milos; Jokl, Rudolf; Kubinek, Jiri; and Ritschl, Evzen,3,447,519.
Ritschl, Evzen; and Kubinek, Jiri,3,428,153.
Kubitschek, Hans E.: *See—*
Trent, James A.; Kubitschek, Hans E.; Hook, Harvey E.; and Caudel, Fred H.,3,453,988.
Kubitzek, Harry; Unger, Otto; Nawrath, Gunter; Reichle, Alfred; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Bifilar polyamide yarns and filaments. 3,477,899, 11-11-69, Cl. 161-173.
Kubly, Raymond R., Jr.: *See—*
Kolster, Wilhelm K., 3,460,385.
Kubo, Kazuo: *See—*
Namikata, Takeshi; and Kubo, Kazuo,3,477,929.
Kubo, Kikuo; and Saito, Katsuya, to Nippon Columbia Company, Limited. Numerical display system for a computer or the like. 3,460,097, 8-5-69, Cl. 340-172.5
Kubo, Koichiro; Omori, Fumitaka; and Murai, Munehisa, to Shimadzu Seisakusho Ltd., and Todo Seisakusho Ltd. Automatic knotter. 3,463,528, 8-26-69, Cl. 289-3.
Kubo, Masashi: *See—*
Oonishi, Yasuo; Okazaki, Takeshi; and Kubo, Masashi,3,477,109.
Kubo, Moritada, to Tokyo Shibaura Electric Co., Ltd. Apparatus for automatically statistically analyzing signals having fluctuating portions and steep slope portions. 3,465,247, 9-2-69, Cl. 324-77.
Kubo, Moritada: *See—*
Miyazaki, Yoshihisa; Kubo, Moritada; Takahashi, Yukiharu; and Uetani, Tatsuya,3,436,627.
Kubokawa, Masaharu. Waved flat plate coil or washer. 3,430,672, 3-4-69, Cl. 151-36.
Kubokawa, Masaharu. Shock absorbing steering wheel assembly for a motor vehicle. 3,460,400, 8-12-69, Cl. 74-492.
Kubota, Fumio. Semiconductor having reinforced lead structure. 3,450,965, 6-17-69, Cl. 317-235.
Kubota, Hiroshi: *See—*
Gotohda, Masao; Kubota, Hiroshi; Nozaki, Fumio; and Omi, Shinzo,3,481,848.
Kubota, Hiroyuki; Mimino, Tohru; Fukuda, Yuh; Ishizu, Yoshio; and Nago, Toshio, to Nippon Kokan Kabushiki Kaisha. Steel alloys resistant to sulfuric acid and containing small quantity of alloying elements of copper, chromium, and tin or antimony. 3,443,934, 5-13-69, Cl. 75-125.
Kubota Iron and Machinery Works, Ltd.: *See—*
Hino, Masamichi, 3,421,594.
Kawai, Teiichi, 3,432,175.
Kubota, Isamu, to Minolta Camera Company Ltd. Automatic exposure control motion picture camera. 3,421,812, 1-14-69, Cl. 352-141.
Kubota, Isamu, to Minolta Camera Company Ltd. Mtion picture camera light control means. 3,486,814, 12-30-69, Cl. 352-141.
Kubota, Ltd.: *See—*
Hino, Masamichi, 3,472,330.
Kubota, Takashi: *See—*
Yoda, Naoya; Nakanishi, Ryoji; Kubota, Takashi; Kurihara, Masaru; and Ikeda, Kojyuro,3,468,851.
Kubota Tekko Kabushiki Kaisha: *See—*
Hino, Masamichi, 3,472,330.
Shimamoto, Takatsugu; Hiyamuda, Shota; Fujita, Shigeru; Nozoe, Akihiko; Yamaguchi, Hiromi; and Eguchi, Jutaro, 3,423,910.
Kubota, Yasuhiro: *See—*
Kato, Tsuneyuki; Aoshima, Atsushi; Kubota, Yasuhiro; and Matsumura, Kenji,3,446,840.
Kubota, Yoshita: *See—*
Noguchi, Yuichi; Uno, Tetsuo; Kubota, Yoshita; and Hosoda, Hiroshi,3,436,308.
Kubovy, Miloslav: *See—*
Stary, Josef; Kubovy, Miloslav; and Jirasek, Erik,3,440,812.
Kubovy, Miloslav; Jirasek, Erik; Stary, Josef; and Zavadsky, Karel, to Vyzkumny Ustav Bavlnarsky. Apparatus for continuous ringless spinning of textile fibers in a rotating spinning chamber in which underpressure is maintained. 3,481,130, 12-2-69, Cl. 57-58.89
Kubsh, Leroy M., to Landis Tool Company. Abrasive disc. 3,426,486, 2-11-69, Cl. 51-356.
Kucaba, Walter: *See—*
Thies, Peter Willibrord; Kucaba, Walter; and Funke, Siegfried,3,422,090.
Kucera, Clare H.: *See—*
Coulter, Albert W., Jr.; Copeland, Claude T.; and Kucera, Clare H.,3,443,386.
Kucera, Clare H., to Dow Chemical Company, The. Aqueous cementing composition and method of use. 3,465,824, 9-9-69, Cl. 166-293.
Hook, Fred E.; Kucera, Clare H.; and Scott, L. J., Jr.,3,465,825.
Kucera, Joseph B., 1/2 to Lowell, Rudolph L. Material handling apparatus. 3,448,871, 6-10-69, Cl. 214-17.

Kucera, Thomas J.; and Bolsenga, Stanley J., to American Photocopy Equipment Company. Machine for copying opposite faces of small document. 3,475,094, 10-28-69, Cl. 355-23.

Kuceris, Arijs L., to United States of America, mesne. Recess deburring tool. 3,482,475, 12-9-69, Cl. 77-58.

Kuchar, Paul J., to Universal Oil Products Company. Olefin production and subsequent recovery. 3,437,585, 4-8-69, Cl. 208-96.

Kuchar, Paul Joseph, to Universal Oil Products Company. Preparation of normal mono-olefins. 3,429,944, 2-25-69, Cl. 260-683.3

Kucharski, Louis A., to Superior Electric Company, The. Adjustable voltage autotransformer. 3,466,585, 9-9-69, Cl. 336-148.

Kucheck, Sam. Laminated panels. 3,447,803, 6-3-69, Cl. 273-6.

Kuchelbacher, Ludwig: *See—*
Andress, Bernhard; and Kuchelbacher, Ludwig,3,427,118.

Kuchin, Nikolai Mikhailovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.

Kuchta, Frank J.: *See—*
Brown, Martin M.; Kuchta, Frank J.; and West, Robert F.,3,438,595.

Kucirka, John F., to Air Products and Chemicals, Inc. Preparation of dried gel. 3,472,787, 10-14-69, Cl. 252-432.

Kuck, John H., to United States of America, Navy. Phase computer. 3,453,550, 7-1-69, Cl. 328-109.

Kuck, Mark Allen, to Stauffer Chemical Company. Defluorination of phosphate ores. 3,447,900, 6-3-69, Cl. 23-108.

Kuckein, Paul A.: *See—*
Jacques, James O.; Montgomery, David; and Kuckein, Paul A.,3,479,493.

Kuckens, Alexander: *See—*
Niehaus, Wolfgang; and Kuckens, Alexander,3,460,593.
Niehaus, Wolfgang; and Kuckens, Alexander,3,461,922.

Kuczkowski, Frank A.; and Laakaniemi, Richard N., to Johnson Service Company. Fluid signal summing modulator and amplifier. 3,469,592, 9-30-69, Cl. 137-81.5

Kuderna, Jerome G., Jr.; and Skiles, Richard D., to Shell Oil Company. Amides. 3,478,105, 11-11-69, Cl. 260-558.

Kudlaty, Walter J., to Marvel Engineering Company. Pressure differential indicator forfilters. 3,431,883, 3-11-69, Cl. 116-70.

Kudlaty, Walter J., to Marvel Engineering Company. Plural element filter assembly. 3,441,143, 4-29-69, Cl. 210-333.

Kudlaty, Walter J., to Marvel Engineering Company. Filter media having an increased filter area. 3,448,862, 6-10-69, Cl. 210-489.

Kudlaty, Walter J., to Marvel Engineering Company. Valve head for by-pass valve. 3,460,805, 8-12-69, Cl. 251-357.

Kudlaty, Walter J., to Marvel Engineering Company. Filter and by-pass valve assembly. 3,469,697, 9-30-69, Cl. 210-132.

Kudlaty, Walter J., to Marvel Engineering Company. Air-operated filtering system. 3,473,662, 10-21-69, Cl. 210-100.

Kudlaty, Walter J., to Marvel Engineering Company. Filter and housing structure. 3,476,251, 11-4-69, Cl. 210-232.

Kudlaty, Walter J., to Marvel Engineering Company. Reservoir filter assembly. 3,476,252, 11-4-69, Cl. 210-323.

Kudlaty, Walter J., to Marvel Engineering Company. Dual seal. 3,482,846, 12-9-69, Cl. 277-178.

Kudlaty, Walter J.; and Heinrich, Peter, Jr., to Marvel Engineering Company. Filter with automatic bypass-shutoff. 3,420,375, 1-7-69, Cl. 210-90.

Kudman, Irwin, to RCA Corporation. Thermoelectric lead telluride base compositions and devices utilizing them. 3,460,996, 8-12-69, Cl. 136-238.

Kudo, Shiro; Mihara, Yoshihisa; Adachi, Taiichi; Tsurugi, Shinichi; Usuku, Tomoatsu; and Wada, Isamu, to Kyowa Hakko Kogyo Co., Ltd. Phthalic acid diester preparation. 3,476,796, 11-4-69, Cl. 260-475.

Kudo, Shiro; Mihara, Yoshihisa; and Yada, Seiichi, to Kyowa Hakko Kogyo Co., Ltd.Process for the catalytic vapor phase hydrogenation of an β-unsaturated carbonyl compound with a gaseous mixture of hydrogen and a lower alkane. 3,449,435, 6-10-69, Cl. 260-593.

Kudo, Shiro; Shimomura, Kunio; and Bamoto, Takeshi, to Kyowa Hakko Kogyo Co., Ltd. Liquid phase oxidation of xylenes. 3,474,137, 10-21-69, Cl. 260-524.

Kudo, Shiro; and Tsurugi, Shinichi, to Kyowa Hakko Kogyo Kabushiki Kaisha. Method of purifying methyl-isobutylcarbinol by azeotropic distillation with water. 3,442,772, 5-6-69, Cl. 203-85.

Kudo, Shiro; Yada, Seiichi; and Yamauchi, Takayoshi. Catalytic hydrogenation of α,β-unsaturated carbonyl compounds, unsaturated fatty acids, and unsaturated fatty acid esters. 3,471,575, 10-7-69, Cl. 260-617.

Kudo, Teizo: *See—*
Tanaka, Atsushi; and Kudo, Teizo,3,465,066.

Kudo, Tetsuo; Nakamura, Kazuo; Ogita, Teisuke; and Sudo, Yozo, to Fujitsu Limited. Electromagnetic switch matrix. 3,439,301, 4-15-69, Cl. 335-112.

Kudoh, Hiroshi: *See—*
Kimura, Jun; Kudoh, Hiroshi; and Ikeda, Toshimichi,3,473,632.

Kuebler, Norman A.; Pao, Yoh-Han; and Robin, Melvin B., to Bell Telephone Laboratories, Incorporated. Layered structure ultraviolet polarizer. 3,428,388, 2-18-69, Cl. 350-152.

Kuebrich, Herbert P., to Ti Line Corporation, mesne. Method of manufacturing a lined iron- base article. 3,461,944, 8-19-69, Cl. 164-100.

Kuechler, William Lewis: *See—*
Geerdes, James Divine; and Kuechler, William Lewis,3,452,131.

Kuechler, William L., to Entoleter, Inc. Method and apparatus for contacting continuous and disperse phase substances. 3,430,932, 3-4-69, Cl. 261-28.

Kuecken, John A., to General Dynamics Corporation. Center fed vertical dipole antenna. 3,438,042, 4-8-69, Cl. 343-792.

Kueffer, Philippe G., to General Time Corporation. Frequency regulator for tuning fork drive system. 3,435,609, 4-1-69, Cl. 58-23.

Kueffer, Philippe G., to General Time Corporation. Frequency regulator for tuning fork drive system. 3,435,610, 4-1-69, Cl. 58-23.

Kuehne, Martin E., to United States of America, Health, Education, and Welfare. Synthesis of vincamine. 3,454,583, 7-8-69, Cl. 260-294.3

Kuehne, Walter: *See—*
Le Febre, David L.; and Kuehne, Walter,3,470,377.

Kuehnle, Manfred R., to DASA Corporation, mesne. Automatic telephone dialing apparatus. 3,427,406, 2-11-69, Cl. 179-90.

Kuehnle, Manfred R., to DASA Corporation. Magnetic tape input device. 3,471,842, 10-7-69, Cl. 340-174.1

Kuehnlein, Dieter, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Sound reproducing apparatus. 3,475,031, 10-28-69, Cl. 274-4.

Kuelling, Walter, to Process Equipment Engineering Co. Continuous fluid bed dryer. 3,475,832, 11-4-69, Cl. 34-182.

Kueneman, Don. Jaw crushers. 3,425,639, 2-4-69, Cl. 241-148.

Kuenn, Henry J.: *See—*
Crocker, Richard E.; and Kuenn, Henry J.,3,463,809.

Kuenstle, Joseph Franz; and Rosen, John Emanuel, to Continental Can Company, Inc. method of dressing grinding wheels. 3,424,566, 1-28-69, Cl. 51-293.

Kueny, Kenneth E., to Johnson Products, Inc. Camshaft, pattern, and method of making. 3,444,759, 5-20-69, Cl. 74-567.

Kueny, Kenneth E., to Johnson Products, Inc. Engine components of cast iron having Ni, Cr, and Ti as alloying elements. 3,472,651, 10-14-69, Cl. 75-128.

Kuenzli, Albert, to Sulzer Brothers Limited. Irradiation chamber. 3,484,612, 12-16-69, Cl. 250-106.

Kuessner, Albrecht: *See—*
Wicke, Ewald; and Kuessner, Albrecht,3,455,845.

Kuether, Frederick W.; and Richards, Albert M., said Kuether assor. of 1/2 to Honeywell Inc. Thermal device for measuring direction and velocity of fluid flow. 3,438,253, 4-15-69, Cl. 73-204.

Kuether, Siegfried, to Tamco Limited. Hydraulic steering for watercraft. 3,450,087, 6-17-69, Cl. 114-150.

Kuever, Cecil Paul. Electrically operated numbering device in bed and cylinder printing machines. 3,450,040, 6-17-69, Cl. 101-88.

Kuffer, Clarence O., to Valve Corporation of America. Leakproof dispensing container. 3,420,415, 1-7-69, Cl. 222-193.

Kuga, Toshiki: *See—*
Ueshima, Kumao; Hiratsuka, Yoshio; Kuga, Toshiki; Yoshinaga, Hirokazu; and Hayashi, Yoichi,3,459,418.

Kugele, Thomas G., to Du Pont de Nemours, E. I., and Company. Herbicidal compositions containing poly uracils. 3,471,282, 10-7-69, Cl. 71-92.

Kugelfischer Georg Schafer & Co.: *See—*
Brand, Karl, 3,423,940.
Kleeberger, Rudolf, 3,443,554.

Kugle, John L.: *See—*
Futty, Robert C.; and Kugle, John L.,3,469,824.

Kugler, Emanuel. Self-supporting liquid bag. 3,437,258, 4-8-69, Cl. 229-58.

Kugler, Emanuel. Siftproof plastic bag. 3,460,741, 8-12-69, Cl. 229-56.

Kugler, Emanuel. Bag with unfolding insert. 3,484,037, 12-16-69, Cl. 229-54.

Kugler Fonderie et Rolinetterie S.A.: *See—*
Piemontesi, Jean, 3,469,450.

Kugler, Fritz: *See—*
Ernst, Otto; Neubold, Kurt; Ibing, Guenther; and Kugler, Fritz,3,470,132.
Ishida, Shinichi; Sato, Kunio; Fujita, Norimasa; Fukuda, Hiromichi; Mori, Kyoichiro; and Kugler, Fritz,3,470,135.

Kugler, Uwe H., to Greater Iowa Corporation, The. Lading, clamping and transporting device. 3,427,066, 2-11-69, Cl. 294-67.

Kugler, Walter. Cutting device. 3,421,393, 1-14-69, Cl. 77-69.

Kuhaneck, Michael, Jr. Paint can holder. 3,448,956, 6-10-69, Cl. 248-210.

Kuhar, Ludwig J., to Singer Company, The. Loop takers for sewing machines. 3,465,700, 9-9-69, Cl. 112-228.

Kuhara, Tozaburo. Variable torque hydraulic gear motor. 3,446,118, 5-27-69, Cl. 91-59.

Kuhl, Bernhard R.; and Larson, Donald H., to Warwick Electronics Inc. Multiple high frequency tuning dial structure. 3,428,021, 2-18-69, Cl. 116-124.4

Kuhl, Bernhard R.; and Morrall, Stephen H., to Warwick Electronics Inc. Illuminated tuning dial structure. 3,428,020, 2-18-69, Cl. 116-124.4

Kuhl, Hans: *See—*
Schnizler, Karl Albrecht; and Kuhl, Hans,3,483,661.

Kuhlapparate G.m.b.H.: *See—*
Stierlin, Hans; and Eber, Nikolaus, 3,464,221.

Kuhlbars, Hermann: *See—*
Seulen, Gerhard; Reinke, Friedhelm; and Kuhlbars, Hermann,3,472,988.

Kuhle, Engelbert: *See—*
Paulus, Wilfried; Kuhle, Engelbert; Pauli, Otto; Sasse, Klaus; and Klauke, Erich,3,478,027.

Kuhle, Engelbert; and Anders, Bertram, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of arylimino-chlorocarbonyl cyanides. 3,467,693, 9-16-69, Cl. 260-465.

Kuhlenkamp, Alfred. Control device for anti-aircraft guns. 3,452,184, 6-24-69, Cl. 235-61.5

Kuhlkamp, Alfred; and Reihs, Leonhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of copolymers of vinyl esters and ethylene. 3,483,171, 12-9-69, Cl. 260-80.6

Kuhlkamp, Alfred; and Werner, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Telomers of maleic anhydride and process for preparing them. 3,474,114, 10-21-69, Cl. 260-347.3

Kuhlman Electric Company: *See—*
Hughes, Arthur V., 3,466,744.

Kuhlman, Irene Dorsey. Tone downer. 3,424,152, 1-28-69, Cl. 128-132.

Kuhlman, Irene Dorsey. Writer's aid. 3,453,751, 7-8-69, Cl. 35-36.

Kuhlman Machine Company: *See—*
Kuhlman, Walter F., 3,448,717.

Kuhlman, Norman H.: *See—*
Moore, Jesse C., 3,483,600.

Kuhlman, Roy M., to Packaging Corporation of America. Denester. 3,477,592, 11-11-69, Cl. 214-8.5

Kuhlman, Walter F., to Kuhlman Machine Company. Automobile wheel well undercoating apparatus and method. 3,448,717, 6-10-69, Cl. 118-2.

Kuhlmann, Olaf, to Consolidated Burris International, Ltd., mesne. Two piece seating furniture construction. 3,471,199, 10-7-69, Cl. 297-418.

Kuhlthau, Hans-Peter: *See—*
Raue, Roderich; and Kuhlthau, Hans-Peter,3,468,619.

Kuhn, Adalbert: *See—*
Knobloch, Peter; Kuhn, Adalbert; Pfannenschmidt, Otto; and Schneider, Werner,3,435,534.

Kuhn, David A., to Continental Oil Company. Subterranean consolidation silicate cement. 3,449,139, 6-10-69, Cl. 106-84.

Kuhn, David Albert; and Riggs, Olen Lonnie, Jr., to Continental Oil Company. Combination bactericide and corrosion inhibitor. 3,455,822, 7-15-69, Cl. 252-8.55

Kuhn, Edgar: *See—*
Dietl, Franz W.; and Kuhn, Edgar,3,463,997.

Kuhn, Edgar, to Bosch, Robert, G.m.b.H. Excitation system for generators. 3,443,200, 5-6-69, Cl. 322-24.

Kuhn, Edgar, to Bosch, Robert , GmbH. Voltage regulator for a multi-phase variable speed, variable-frequency generator, for automotive use. 3,447,065, 5-27-69, Cl. 322-24.

Kuhn, Edgar, to Bosch, Robert, GmbH. Voltage regulator for multi-phase variable speed variable frequency generator, particularly for automotive use. 3,477,015, 11-4-69, Cl. 322-24.

Kuhn, Hans H., to Deering Milliken Research Corporation. Heat sealable yarn and fabric. 3,420,731, 1-7-69, Cl. 161-52.

Kuhn, Hans H., to Deering Milliken Research Corporation. Water soluble polymeric surfactant azo fugitive tints. 3,449,319, 6-10-69, Cl. 260-207.5

Kuhn, Hans H.; and Machell, Greville, to Deering Milliken Research Corporation. Modifying keratinic fibers with solutions containing unsaturated monomers and redox catalysts while maintaining a shear force on said solutions. 3,457,028, 7-22-69, Cl. 8-127.6

Kuhn, Hans, to Securiton AG. Wireless alarm transmission installation. 3,435,444, 3-25-69, Cl. 340-214.

Kuhn, Henry S.; and Hornung, Verdung. Pressure reducing valve. 3,474,822, 10-28-69, Cl. 137-505.41

Kuhn, Jackson G., to Santa Barbara Research Center. Wave deflector arrangement. 3,472,574, 101-4-69, Cl. 350-7.

Kuhn, Jackson G.; and Talley, Robert M., to Santa Barbara Research Center. Scanning device having optical derotation means therein. 3,425,768, 2-4-69, Cl. 350-7.

Kuhn, John. Free piston heat engine construction for heating the working fluid inside the piston. 3,461,668, 8-19-69, Cl. 60-39.6

Kuhn, Kurt Gerhard: *See—*
Bieder, Gert Gottfried; Ziesak, Herbert Walter; and Kuhn, Kurt Gerhard,3,460,709.

Kuhn, Lee H., 1/2 to Wilson, Richard D. Barlow, Robert A. Neff, Benjamin C., Jr. Watson, Gene D. Hair curler. 3,470,888, 10-7-69, Cl. 132-40.

Kuhn, Richard; Jahn, Werner; and Dietmann, Karl, to Boehringer, C. F., & Soehne GmbH. N(6)alkenyl 5-substituted adenosine. 3,475,408, 10-28-69, Cl. 260-211.5

Kuhn, Roy C.: *See—*
Simmons, Harold C.; Hogg, Eugene R.; and Kuhn, Roy C.,3,474,970.

Kuhn, Stephen J., to Dow Chemical Company, The. Method for the preparation of high purity nitronium salts. 3,431,087, 3-4-69, Cl. 23-356.

Kuhn, Wilhelm, OHG: *See—*
Gast, Erich; and Wege, Hans, 3,483,812.

Kuhn, William E., to Green, A. P., Refractories Co. Ultrafine boron nitride and process of making same. 3,469,941, 9-30-69, Cl. 23-191.

Kuhne, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Graft copolymers prepared by irradiating a halogen containing backbone copolymer with U.V. light in the presence of a vinyl monomer. 3,453,195, 7-1-69, Cl. 204-159.15

Kuhne, Heinz, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Method of carrying out endothermic gas reactions. 3,485,888, 12-23-69, Cl. 260-679.

Kuhne, Klaus: *See—*
Jentzsch, Dietrich; and Kuhne, Klaus,3,455,657.

Kuhne, Robert G. Lightweight cellular structural material. 3,461,632, 8-19-69, Cl. 52-615.

Kuhne, Rudolf; Meininger, Fritz; and Frolich, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Reactive azo-dyestuffs. 3,440,240, 4-22-69, Cl. 260-187.

Kuhnel, Alexander H.: *See—*
O'Brien, Francis E.; and Kuhnel, Alexander H.,3,448,278.

Kuhnel, Werner: *See—*
Honig, Hans Ludwig; Muller, Erwin Alfons; Kuhnel, Werner; Kolb, Gunter; and Elzer, Paul,3,445,438.

Kuhnen, Ludwi; List, Ferdinand; and Vangermain, Erwin, to Chemische Werke Huls Aktiengesellschaft. Process for the production of sulfones from sulfides and sulfoxides. 3,449,439, 6-10-69, Cl. 260-607.

Kuhner, Willy: *See—*
Chapuis, Willy; and Kuhner, Willy,3,444,827.

Kuhnert, Gottfried, to Universal Maschinenfabrik Dr. Rudolf Schieber G.m.b.H. Yarn guide control apparatus for a flat knitting machine having a multiple cam system. 3,474,642, 10-28-69, Cl. 66-64.

Kuhnis, Hans Herbert; Ryf, Hugo; and Denss, Rolf, to Geigy Chemical Corporation. Therapeutic compositions containing piperidine derivatives and methods of treating cough and pain therewith. 3,456,060, 7-15-69, Cl. 424-267.

Kuhnl, Leopold Karl, to Eversharp, Inc. Adjustable double edge razor. 3,435,521, 4-1-69, Cl. 30-60.5

Kuhnl, Leopold K.: *See—*
Dawidowicz, Jan; Ferraro, Frank A.; and Kuhnl, Leopold K.,3,466,746.
Dawidowicz, Jan; Kuhnl, Leopold K.; Bombero, Thomas F.; and Ferraro, Frank A.,3,456,342.

Kuhnle, Ernest; and Schwarz, Josef, to Bizerba-Werke Wilhelm Kraut KG. Balance-beam suspension. 3,421,595, 1-14-69, Cl. 177-261.

Kuhnle, Ernst. Scale. 3,477,531, 11-11-69, Cl. 177-171.

Kuhnle, Paul, to Hesser, Fr., Maschinenfabrik, A.G. Packaging bag. 3,439,866, 4-22-69, Cl. 229-62.

Kuhnle, Paul, to Hesser, Fr., Maschinenfabrik, A.G. Packaging bag with brochure. 3,439,868, 4-22-69, Cl. 229-62.

Kuhnle, Paul; and Gaukler, Fritz, to Hesser, Fr., Maschinenfabrik, A.G. Conveyor devices in packaging machines. 3,470,995, 10-7-69, Cl. 198-19.

Kuhns, Charles R.; and Beckenhauer, William H., to Norden Laboratories, Inc. Repository vaccine and method of preparing the same. 3,435,112, 3-25-69, Cl. 424-89.

Kuhns, Donald C.; and Ports, David W., to Western Electric Company, Incorporated. Methods of making soldered connections. 3,451,122, 6-24-69, Cl. 29-475.

Kuhns, Perry W.: *See—*
Cooper, Dale W.; and Kuhns, Perry W.,3,447,003.

Kuhns, Robert C., to Kelley Company, Inc. Method of making a tread plate. 3,423,559, 1-21-69, Cl. 219-76.

Kuhr, Johann: *See—*
Singer, Hermann; Delius, Hermann; and Kuhr, Johann,3,466,814.

Kuhr, Wayne Kenneth; Slakis, Albin Joseph; Hughes, Richard Lawrence; and Neilson, Anne Josephine, to Abbott Laboratories, mesne. Process for improving taste in fruit products by adding cyclamic acid. 3,432,305, 3-11-69, Cl. 99-28.

Kuhre, Calvin J.; and June, Ronald K., to Shell Oil Company. Use of water to improve separation of diammonium phosphate from oil slurries. 3,449,089, 6-10-69, Cl. 23-312.

Kuhre, Calvin J.; and June, Ronald K., to Shell Oil Company. Use of water to improve separation of solids from slurries with oil. 3,480,332, 11-25-69, Cl. 302-66.

Kuhrt, Friedrich: *See—*
Dietz, Helmut; Kuhrt, Friedrich; Lippmann, Hans-Joachim; and Schenk, Horst,3,438,230.

Kuhrt, Noel Hawkins, Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing silver halide photographic emulsions utilizing betaines. 3,434,841, 3-25-69, Cl. 96-94.

Kuilman, Jan: *See—*
Zegers, Leo Eduard; and Kuilman, Jan,3,421,146.

Kuiper, Adrianus: *See—*
Almer, Friedrich Hermann Raymund; and Kuiper, Adrianus,3,472,693.

Kuiper, Jan: *See—*
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan,3,476,546.

Kuiper, Lubertus L.: *See—*
Barson, Fred; and Kuiper, Lubertus L.,3,477,123.

Kuiper, Wilhelmus Gerardus, to U.S. Philips Corporation, mesne. Astable relaxation oscillator including a bilateral limiter in the output circuit. 3,440,564, 4-22-69, Cl. 331-112.

Kuipers, Arie, to Meggle, Josef A. Method of precipitating casein from milk. 3,423,208, 1-21-69, Cl. 99-20.

Kuipers, Jack. Coordinate transformer. 3,474,241, 10-21-69, Cl. 235-186.

Kuipers, Johannes: *See—*
Handele, Martin Jacob; Kuipers, Johannes; and Wellinga, Kobus,3,449,497.

Kujawa, Francis M., to Hooker Chemical Corporation. Polyurethane compositions. 3,424,701, 1-28-69, Cl. 260-2.5

Kujime, Toshihiko: *See—*
Kosaka, Kenzo; and Kujime, Toshihiko,3,438,193.

Kukel, Joseph; Chang, Kuo T.; and Yarber, Gordon W., to Garrett Corporation, The. System and method for free body stabilization and orientation. 3,452,948, 7-1-69, Cl. 244-1.

Kuklok, John Ray. Odor removing device for toilets. 3,469,267, 9-30-69, Cl. 4-213.

Kulachenkov, Gennady Petrovic: *See—*
Gelfand, Ilya Markovich; Zavalischin, Nikolai Ivanovich; and Kulachenkov, Gennady Petrovic,3,447,364.

Kulak, John, to Deere & Company. Rotary cutter. 3,452,530, 7-1-69, Cl. 56-503.

Kulak, Joseph. Horseshoe. 3,425,493, 2-4-69, Cl. 168-4.

Kulak, Joseph. Prophylactic accessory for shod hoof of a horse. 3,486,561, 12-30-69, Cl. 168-4.

Kulakovsky, Vladimir Alexandrovich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.

Kulb, Wilhelm: *See—*
Schenk, Horst; Gunther, Karl-Georg; and Kulb, Wilhelm,3,431,625.

Kulbakh, Valter Osvaldovich; and Karpenko, Marija Pavlovna, to Leningradsky Nauchno-Issledoratelsky Institute Antibiotikov. Process for producing the sodium salt of nystatin and levorin. 3,476,856, 11-4-69, Cl. 424-123.

Kulbersh, Irwin R.: *See—*
Ferdinand, Irwin J.; and Kulbersh, Irwin R.,3,438,688.
Ferdinand, Irwin J.; and Kulbersh, Irwin R.,3,480,155.

Kulcke, Werner W.: *See—*
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard,3,435,447.
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard,3,466,433.
Fleisher, Harold; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,432,222.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,439,348.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,469,206.
Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,482,182.
Max, Erhard; Kulcke, Werner W.; and Kosanke, Kurt M.,3,436,677.

Kulhavy, Joseph A.: *See—*
Bennett, Milton C.; and Kulhavy, Joseph A.,3,435,901.

Kulick, Andrew, to Ranco Incorporated. Electrical connector. 3,428,938, 2-18-69, Cl. 339-266.

Kulick, Andrew, to Ranco Incorporated. Room thermostat for controlling electrically operated room heating means. 3,454,919, 7-8-69, Cl. 337-360.

Kulick, Frederick: *See—*
Colvin, Donald W.; and Kulick, Frederick,3,486,826.
Colvin, Donald W.; Comeau, John C.; and Kulick, Frederick,3,443,872.

Kulick, Russell Joseph: *See—*
D'Errico, Michael Joseph; and Kulick, Russell Joseph,3,433,658.

Kulick, Russell Joseph; and Strazdins, Edward, to American Cyanamid Company. Method of sizing paper with carboxylic acid anhydride particles and polyamines. 3,445,330, 5-20-69, Cl. 162-164.

Kulicke & Soffa Industries, Inc.: *See—*
Zanger, Earl A., Jr.; and Kulicke, Frederick W., Jr., 3,479,716.

Kulicke and Soffa Industries, Inc.: *See—*
Zange, Earl A.; and Szasz, Peter R., 3,458,102.

Kulicke, Frederick W., Jr.: *See—*
Zanger, Earl A., Jr.; and Kulicke, Frederick W., Jr.,3,479,716.

Kulieke, Fredick C., Jr.; and Wisler, Lee G., to Amsted Industries Incorporated. Coupler centering device. 3,445,005, 5-20-69, Cl. 213-20.

Kuliev, Arif Zulfigarovich: *See—*
Abdullaev, Gasan Mamed Bagir Ogly; Nani, Rakhim Khasan; Nasirov, Yadulla Nusrat Ogly; Kuliev, Arif Zulfigarovich; Epshtein, Mikhail Grigorievich; and Kochkarev, Vladimir Ilich,3,472,652.

Kulig, Constantine W., to Emhart Corporation. Apparatus and method for handling glassware for inspection or the like. 3,428,174, 2-18-69, Cl. 209-73.

Kulig, Francis V., to Federal Paper Board Company, Inc. Paperboard blank for carded items and combination of carded items and paperboard container. 3,454,157, 7-8-69, Cl. 206-65.

Kulik, Metro D.; and Laufer, Robert J., to Consolidation Coal Company, mesne. Preparation of 2,6-di-tert-butylphenol. 3,461,175, 8-12-69, Cl. 260-624.

Kulikowski, Victor Alexander: *See—*
Badali, Joseph A.; Kulikowski, Victor Alexander; and Vartanian, Edwin S.,3,456,375.

Kulina, Mark R., to Curtiss-Wright Corporation. Vibration damping device. 3,456,992, 7-22-69, Cl. 308-9.

Kulischenko, Walter, to Pennsalt Chemicals Corporation, mesne. Disposable mixing capsule. 3,451,540, 6-24-69, Cl. 206-47.

Kuljbakh, Valjter Osvaljdovich; Rabinovich, Nina Abramovna; and Raigorodskaja, Valentina Jakovlevna, to Leningradsky Nauchno-Issledovateljsky Institute Antibiotikov. Method of purifying crude griseofulvin. 3,450,718, 6-17-69, Cl. 260-346.2

Kuljbakh, Valjter Osvaljdovich; and Raigorodskaja, Valentina Jakovlevna, to Leningradsky Nauchno-Issledovateljsky Institute Antibiotikov. Method of isolation of crude griseofulvin. 3,467,680, 9-16-69, Cl. 260-346.2

Kuljbakh, Valjter Osvaljdovich; Sokolov, Leonid Borisovich; Sveshnikov, Jury Fedorovich; Kuznetsova, Olja Alexandrovna; Malinovskaja, Galina Nickolaevna; and Raigorodskaja, Valentina Jakovlevna, to Leningradsky nauchno-issledovateljsky institute antibiotikov. Method for extracting the antiboitic levorin from a culture medium. 3,439,090, 4-15-69, Cl. 424-124.

Kuljian, Maynard J., to Ampex Corporation. Data input devices and systems. 3,437,795, 4-8-69, Cl. 235-61.11

Kulju, Kenneth M.: *See—*
Whiteside, Roger B.; and Kulju, Kenneth M.,3,443,617.

Kulka, Marshall: *See—*
Von Schmeling, Bogislav; and Kulka, Marshall,3,454,391.

Kulka, Nicholas: *See—*
Tuthill, Jay D.; Kulka, Nicholas; and Arban, Bert S.,3,428,471.

Kulka, Thomas S. Protective reel band. 3,437,196, 4-8-69, Cl. 206-53.

Kull, Albert R.; and Logan, Warner C., to Ajax Manufacturing Company, The. Stock feed mechanism. 3,443,414, 5-13-69, Cl. 72-422.

Kull, Albert R.; and Rettig, Peter P., to Ajax Manufacturing Company, The. Stock feed mechanism for forging machines and the like. 3,431,768, 3-11-69, Cl. 72-419.

Kull, Leo: *See—*
Calzaretta, Richard; Kull, Leo; and Kurimsky, Albert,3,437,237.

Kullerback, Ivar Anselm, to Hiab-Toco Aktiebolag. Vehicles with crane. 3,445,014, 5-20-69, Cl. 214-77.

Kulling, Achim; Steinbach, Hans; and Thumm, Hans, to Titangesellschaft m.b.H. Process for the manufacture of a rutile pigment by reacting titanium tetrachloride with oxygen or gases containing oxygen. 3,457,038, 7-22-69, Cl. 23-202.

Kulling, Achim: *See—*
Tillmann, Peter; Kulling, Achim; and Hitzemann, Gerhard,3,479,148.

Kulling, Gerald J., to American Standard, Inc. Centrifugal fan having removable blade section. 3,426,965, 2-11-69, Cl. 230-134.

Kullmann, Dieter: *See—*
Albrecht, Cord; Kafka, Wilhelm; and Kullmann, Dieter,3,480,895.

Kulman, Melvin L., to Ingersoll-Rand Company,. Power operated tool having two-speed rotary output. 3,430,521, 3-4-69, Cl. 74-750.

Kulp, Karl T.; and Harklau, Lanny L., to Sperry Rand Corporation. Magnetizable analog sampling detector. 3,465,314, 9-2-69, Cl. 340-174.

Kulson, Walter A. Radially movable live center work support. 3,427,761, 2-18-69, Cl. 51-237.

Kulterman, Robert W.: *See—*
Gunderson, Paul E.; Kulterman, Robert W.; and Stockdale, Norman S.,3,465,958.
Kulwicki, Bernard M.: *See—*
Waseleski, Joseph W., Jr.; Buiting, Francis P.; and Kulwicki, Bernard M.,3,434,089.
Kulzer, Gene T., to Torit Manufacturing Company. Filter bag collar. 3,475,884, 11-4-69, Cl. 55-341.
Kumada, Akio, to Kabushiki Kaisha Hitachi Seisakusho. Method of producing ceramic piezoelectric vibrator. 3,447,217, 6-3-69, Cl. 29-25.35
Kumada, Akio; and Hayama, Fumitada, to Kabushiki Kaisha Hitachi Seisakusho. Duplication of magnetic recordings. 3,465,105, 9-2-69, Cl. 179-100.2
Kumada, Shigenobu: *See—*
Ohki, Sadao; and Kumada, Shigenobu,3,483,294.
Kumagai, Chitoku: *See—*
Fujii, Mitsuo; Kumagai, Chitoku; Katagata, Zenji; and Inoue, Seiichi,3,475,591.
Kumagai Gumi Company Limited: *See—*
Matsushita, Kunijiro, 3,468,133.
Matsushita, Kunijiro, 3,480,327.
Kumagai, Naojiro. Method of manufacturing graphite-bond grinding wheels for precision grinding. 3,454,384, 7-8-69, Cl. 51-295.
Kumagai, Takashi. Time continuous photography. 3,485,158, 12-23-69, Cl. 95-36.
Kumaki, Mitsuo: *See—*
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.
Kumakura, Seiji: *See—*
Iwai, Issei; Seki, Isao; Minakami, Haruhiko; Kobayashi, Shinsaku; Inada, Satoru; and Kumakura, Seiji,3,471,502.
Kumamaru, Hiroyuki: *See—*
Sugi, Masao; and Kumamaru, Hiroyuki,3,475,893.
Kumano, Hiroshi: *See—*
Amano, Yasuji; Kumano, Hiroshi; and Nishino, Atsushi,3,464,902.
Kumashiro, Izumi: *See—*
Suzuki, Katsumi; and Kumashiro, Izumi,3,450,693.
Yamada, Yoshitaka; Kumashiro, Izumi; Takenishi, Tadao; and Suzuki, Katsumi,3,468,901.
Yamazaki, Akihiro; Meguro, Takashi; Kumashiro, Izumi; and Takenishi, Tadao,3,454,559.
Kumazawa, Hirashi: *See—*
Iida, Takahiko; Nobata, Akio; Harasaki, Minoru; and Kumazawa, Hirashi,3,431,400.
Kumazawa, Michio, to Seibu Gomu Kagaku Kabushiki Kaisha(trade name Seibu Rubber Chemical Co., Ltd.). Device for fitting fenders to structures and the like. 3,443,351, 5-13-69, Cl. 52-704.
Kume, Hidetoshi: *See—*
Otsuka, Masatomi; Koumura, Seizo; Yamaguchi, Hideo; and Kume, Hidetoshi,3,481,701.
Kume, Kazunari: *See—*
Nakai, Akira; Nakagawa, Kei; Kume, Kazunari; and Aida, Tadayoshi,3,469,389.
Kume, Tadashi, to Mitsubishi Seiko Kabushiki Kaisha. Office device for identifying number of malicious caller's telephone station. 3,482,054, 12-2-69, Cl. 179-18.
Kumiai Chemical Industry Co., Ldt.: *See—*
Okuda, Itsuki; Yoshinaga, Eiichi; and Tsuboi, Takeo, 3,432,601.
Kumin, Victor M., to Kendall Company, The. Spot-bonded nonwoven fabrics and their preparations. 3,438,844, 4-15-69, Cl. 161-150.
Kumm, William H., to Westinghouse Electric Corporation. Oceanographic apparatus. 3,479,870, 11-25-69, Cl. 73-170.
Kummer, Daniel F.: *See—*
Wolf, Edgar; Marino, Francis C.; Simon, Herman; and Kummer, Daniel F.,3,472,448.
Kummer, Edson L.: *See—*
Valeska, John J.; Spencer, Donald N.; and Kummer, Edson L.,3,461,561.
Kummer, Joseph T., to Ford Motor Company. Secondary battery employing an electronically- insulative, cationically-conductive solid electrolyte with anodic and cathodic feeder means. 3,468,709, 9-23-69, Cl. 136-6.
Kummer, Joseph T.; and Weber, Neill, to Ford Motor Company. Thermo-electric generator. 3,458,356, 7-29-69, Cl. 136-83.
Kummer, Joseph T.; and Weber, Neill, to Ford Motor Company. Fuel cell. 3,475,223, 10-28-69, Cl. 136-86.
Kummer, Karl-Joachim: *See—*
Weber, Friedrich; Fuchs, Helmut; and Kummer, Karl-Joachim,3,443,878.
Kummer, Pierre. Automatic lathe. 3,459,076, 8-5-69, Cl. 82-14.
Kummer, Werner: *See—*
Stahle, Helmut; Kummer, Werner; Koppe, Herbert; Zeile, Karl; Hoefke, Wolfgang; and Samtleben, Hans-Wolfgang,3,480,630.
Kummer, Wolfgang H., to United States of America, Air Force. Traveling wave phase shifter having independent gain and phase control. 3,459,987, 8-5-69, Cl. 315-3.6
Kummer, Wolfgang H., to United States of America, Air Force. Traveling wave phase shifter direction finder. 3,471,864, 10-7-69, Cl. 343-118.
Kummerer, Fritz: *See—*
Rheinberger, Peter; and Kummerer, Fritz,3,421,937.
Kummerow, Gerd, to Siemens Aktiengesellschaft. Circuit for testing a high power circuit breaker with a stress simulating a remote short line fault. 3,454,872, 7-8-69, Cl. 324-28.
Kump, Dorothy M.: *See—*
Kump, Edward T.,3,447,529.
Kump, Edward T., deceased0 (by Kump, Dorothy M.; executrix), to Garrett Corporation, The. Gas turbine galley. 3,447,529, 6-3-69, Cl. 126-19.5
Kump, Herbert J.: *See—*
Bertelsen, Bruce I.; Hottenrott, Hans G.; and Kump, Herbert J.,3,435,428.
Bertelsen, Bruce I.; Kump, Herbert J.; and Chang, Paul T.,3,465,311.
Kump, Herbert J., to International Business Machines Corporation. Low threshold magnetic film memory. 3,478,334, 11-11-69, Cl. 340-174.
Kump, Herbert J.; and Stapper, Charles H., Jr., to International Business Machines Corporation. Magnetic imformation storage apparatus. 3,475,737, 10-28-69, Cl. 340-174.
Kumpf, Leonard P., to Lasalco Incorporated. Plating apparatus. 3,431,192, 3-4-69, Cl. 204-213.
Kumpitsch, Robert C.: *See—*
Granan, John R.; and Kumpitsch, Robert C.,3,485,140.
Kumpolt, Karl. Dock leveller units. 3,454,974, 7-15-69, Cl. 14-71.
Kun, Kenneth A.; and Kunin, Robert, to Rohm & Haas Company. Process and product for removing colloidal materials from aqueous media. 3,454,493, 7-8-69, Cl. 210-37.
Kun, Leslie C.; and Czikk, Alfred M., to Union Carbide Corporation. Surface for boiling liquids. 3,454,081, 7-8-69, Cl. 165-133.
Kunath, Elmer M.: *See—*
Carter, Uriel F.; Kolb, Arthur F.; and Kunath, Elmer M.,3,478,292.
Drees, John F.; and Kunath, Elmer M.,3,428,764.
Kunc, Frank C.: *See—*
Lynch, William J.; and Kunc, Frank C.,3,465,715.
Kunce, Thomas. Therapeutic couch. 3,464,406, 9-2-69, Cl. 128-57.
Kund, August: *See—*
Bivans, Elbert L.; and Kund, August,3,421,288.
Kunde, Joachim; Wilhelm, Hans; and Doerfel, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of moldings from polyurethane elastomers. 3,471,447, 10-7-69, Cl. 260-75.
Kundell, Frederick A.: *See—*
Ehrig, Raymond J.; and Kundell, Frederick A.,3,434,946.
Kunderman, Fred K., to Dresser Industries, Inc. Tilting pad bearing assembly. 3,472,566, 10-14-69, Cl. 308-73.
Kunderman, Fred K., to Dresser Industries, Inc. Multistage centrifugal compressor. 3,476,485, 11-4-69, Cl. 415-66.
Kunderman, Fred K., to Dresser Industries, Inc. Variable area diffuser for compressor. 3,478,955, 11-18-69, Cl. 230-114.
Kundrach, Steve W., to Warner & Swasey Company, The. Adjustable guide for fibrous material. 3,445,048, 5-20-69, Cl. 226-199.
Kundrach, Steve W., to Warner & Swasey Company, The. Textile apparatus having a combined head lifter and ratch adjustment mechanism. 3,460,205, 8-12-69, Cl. 19-129.
Kunemund, Friedrich: *See—*
Werther, Walter V.; Kunemund, Friedrich; and Albsmeier, Hans,3,471,645.
Kunert, Alfred: *See—*
Oesterhelt, Gerhard; de Bucs, Eugen Szabo; Kunert, Alfred; and Rupprecht, Joachim,3,470,033.
Kunert, Heinz. Educational device. 3,462,853, 8-26-69, Cl. 35-9.
Kunert, Heinz; and Biermann, Wilhelm, to Compagnie de Saint-Gobain. Safety glass. 3,427,770, 2-18-69, Cl. 52-203.
Kunert, Herbert B.: *See—*
Pfeiffer, Albert; Cogswell, Richard V.; Lynch, Charles W.; and Kunert, Herbert B.,3,478,926.
Kunert, Werner. Fluid level measuring device. 3,433,073, 3-18-69, Cl. 73-313.
Kunevicius, Alex, to Custom Trim Products Inc. Resilient bumper strip. 3,439,950, 4-22-69, Cl. 293-1.
Kung, Werner; and Prins, Daniel A., to Geigy Chemical Corporation. Azepine derivatives. 3,446,798, 5-27-69, Cl. 260-239.
Kunichika, Sango; and Sakakibara, Yasumasa, to Chiyoda Kako Kensetsu Kabushiki Kaisha. Method of manufacturing methacrylic esters from allene. 3,466,324, 9-9-69, Cl. 260-486.
Kunichika, Sango; Sakakibara, Yasumasa; and Taniuchi, Mamoru, to Chiyoda Kako Kensetsu Kabushiki Kaisha. Method of producing methyl acetylene and allene from propylene. 3,454,667, 7-8-69, Cl. 260-678.
Kunik, I. Jordan: *See—*
Takeda, Michio, 3,460,436.
Kunik, Jordan I.: *See—*
Hutchinson, Seymour M.; and Spitz, Adrian N., 3,452,745.
Kunin, Robert: *See—*
Kun, Kenneth A.; and Kunin, Robert,3,454,493.

Kunitake, Tatsuro; and Kato, Tadashi. Steel for hot working die having alloying elements for silicon, chromium and aluminum. 3,431,101, 3-4-69, Cl. 75-124.
Kuniyoshi, Ieji: *See*—
Okuda, Noriyuki; Kuniyoshi, Ieji; and Tsukamoto, Hisashi,3,481,976.
Okuda, Noriyuki; Kuniyoshi, Ieji; Saito, Tadashi; and Oguri, Koji,3,480,645.
Kunkel, Karl E., to Hooker Chemical Corporation. Process for stabilizing halobenzenes and methylbenzenes. 3,449,448, 6-10-69, Cl. 260-650.
Kunkle, J. L.: *See*—
Koopman, Francis C.; and Kunkle, J. L.,3,463,717.
Kunnen, Josef: *See*—
Benthake, Henrich; Futterer, Lothar; and Kunnen, Josef,3,469,656.
Kuno, Hiromu John: *See*—
Ellinger, Paul B.; and Kuno, Hiromu John,3,461,431.
Kuno, Syozo, to Aisin Seiki Company Limited. Clutch assembly. 3,450,241, 6-17-69, Cl. 192-70.18
Kuns, Roger R.; and Orwig, Nelson, to West Virginia Pulp and Paper Company. Swing tray display stand. 3,438,508, 4-15-69, Cl. 211-133.
Kunselman, Maurice H. Roller skis. 3,436,088, 4-1-69, Cl. 280-11.1
Kunst, Bernhard, to GHH-M.A.N. Technik Gesellschaft fur Anlagenbau m.b.H. Method for multiple effect flash evaporation and contact condensation. 3,457,143, 7-22-69, Cl. 203-11.
Kunstadt, George H.; and Opocensky, Willard J., to Singer-General Precision, Inc. Fluid flow computer. 3,472,072, 10-14-69, Cl. 73-233.
Kunstle, Gerhard; Heckmaier, Joseph; Knorr, Fritz; and Siegl, Herbert, to Wacker-Chemie G.m.b.H. Process for making isovaleric acid. 3,474,138, 10-21-69, Cl. 260-540.
Kunstle, Gerhard; and Siegl, Herbert, to Wacker-Chemie G.m.b.H. Process for separating azeotropic mixtures from esters of aliphatic saturated or unsaturated carboxylic acids and alcohols by azeotropic distillation with a hydrocarbon halide. 3,476,798, 11-4-69, Cl. 260-486.
Kunstsloff-Verfahrenstechnik Isernhagen HB GmbH & Co. KG: *See*—
Ruhnau, Joachim, 3,481,587.
Kunststoffwerk Gebr. Anger G.m.b.H. & Co.: *See*—
Jirka, Karl; and Gutlhuber, Johann, 3,437,297.
Prochaska, Wolfgang, 3,458,619.
Kuntscher, Gerhard, to Orthopedic Equipment Company, Inc. Instrument for spiking fractured bones. 3,439,671, 4-22-69, Cl. 128-83.
Kuntscher, Gerhard, to Orthopedic Equipment Company, Inc., The, mesne. Method and instrument for cutting or severing a bone from the bone's inside. 3,468,312, 9-23-69, Cl. 128-317.
Kuntscher, Gerhard, to Orthopedic Equipment Company, Inc. Instrument and method for cutting or severing a bone from the inside thereof. 3,472,229, 10-14-69, Cl. 128-317.
Kuntz, Egon: *See*—
Suling, Carlhans; and Kuntz, Egon,3,453,223.
Kuntz, Irving, to Esso Research and Engineering Company. Monoepoxide polymers. 3,442,875, 5-6-69, Cl. 260-79.5
Kuntz, Irving; and Kroll, Wolfram R., to Esso Research and Engineering Company. Dialkylaluminum acetylacetonate polymerization catalysts. 3,459,721, 8-5-69, Cl. 260-88.3
Kuntz, Irving; and Thomas, Robert M., to Esso Research and Engineering Company. Tetrahydrofuran polymers. 3,435,015, 3-25-69, Cl. 260-93.1
Kuntz, Irving; and Thomas, Robert M., to Esso Research and Engineering Company. Bis[4,4'-diphenylmethyl]bibenzyl-bis (hexachloroantimonate). 3,466,313, 9-9-69, Cl. 260-446.
Kuntz, Louis E.; Hahn, William C.; and Rhoades, Merle C., to Phillips Petroleum Company. Signal generator for producing a predetermined number of electrical pulses. 3,426,273, 2-4-69, Cl. 324-68.
Kuntze, Richard Andreas, to Domtar Limited. Retarded gypsum plaster compositions. 3,451,832, 6-24-69, Cl. 106-111.
Kunz, Guenter Otto, to Aeroquip Corporation. Clamp-type hose fitting. 3,432,190, 3-11-69, Cl. 285-253.
Kunz, Karl, to Schmidt, Karl Heinz. Hydraulic power steering mechanism for a road vehicle. 3,424,262, 1-28-69, Cl. 180-79.2
Kunz, Ludwig K. Smoking pipe. 3,459,196, 8-5-69, Cl. 131-199.
Kunz, Paul-Albert, to Emissa S.A. Reciprocating motor structure. 3,484,629, 12-16-69, Cl. 310-15.
Kunz, Raymond S. Lockable and removable truck bed cover assembly. 3,420,570, 1-7-69, Cl. 296-100.
Kunz, Raymond W.: *See*—
Hughes, William C.; and Kunz, Raymond W.,3,453,642.
Kunz, Werner: *See*—
Schwemmer, Martin; Kunz, Werner; and Bors, Hans,3,443,322.
Kunze, Bernhard: *See*—
Dombrowski, Theodor; and Kunze, Bernhard,3,448,504.
Kunze, Walter G., to National Starch and Chemical Corporation. Method for the removal of fatty acids from starches. 3,485,668, 12-23-69, Cl. 127-71.
Kunze, Walter G., to National Starch and Chemical Corporation. Method for the removal of fatty acids from starches. 3,485,669, 12-23-69, Cl. 127-71.
Kunzle, Franz Martin: *See*—
Schmutz, Jean; Hunziker, Fitz; and Kunzle, Franz Martin,3,454,561.
Schmutz, Jean; Hunziker, Fritz; Kunzle, Franz Martin; and Russel, Jeff Hamish,3,478,056.
Kunzler, John E., to Bell Telephone Laboratories, Incorporated. Protective circuit for superconducting magnet. 3,458,763, 7-29-69, Cl. 317-13.
Kunzler, John E.; Levinstein, Hyman J.; and Rowell, John M., to Bell Telephone Laboratories, Incorporated. Josephson current structures. 3,423,607, 1-21-69, Cl. 307-306.
Kunzli, Albert, to Sulzer Brothers, Limited. Concrete pressure vessel and method of constructing same. 3,454,080, 7-8-69, Cl. 165-47.
Kuo, Chan Hwa; Taub, David; and Wendler, Norman L., to Merck & Co., Inc. 3 Hydroxy-13-lower alkyl-gona-1,3,5(10)8,14-pentaene-15-carbalkoxy-17-one compounds and process for the production thereof. 3,449,380, 6-10-69, Cl. 260-397.1
Kuo, Chan-Hwa; Taub, David; and Wendler, Norman L., to Merck & Co., Inc. 3-Hydroxy-13-lower alkyl-15-carboxyl-1,3,5(10),8, 14-gonapentean-17-ones and intermediates in the production thereof. 3,472,881, 10-14-69, Cl. 260-397.1
Kuo, Chan Hwa: *See*—
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa,3,435,044.
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa,3,441,568.
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa,3,450,706.
Kuo, Charles C. Y., to Bell Telephone Laboratories, Incorporated. Technique for fabrication of printed circuit resistors. 3,420,706, 1-7-69, Cl. 117-227.
Kuo, Chi Sheng: *See*—
Christensen, Axel; and Kuo, Chi Sheng,3,433,600.
Kuo, Chi S.; and Christensen, Axel, to Chemical Construction Corporation. Apparatus for exothermic catalytic reactions with intergral heat exchanger. 3,475,137, 10-28-69, Cl. 23-289.
Kupchick, John J., to TRW Inc. Bearing seal. 3,442,520, 5-6-69, Cl. 277-169.
Kupcikevicius, Vytautas: *See*—
Myles, Michael J.; Kupcikevicius, Vytautas; and Spellman, John P.,3,451,098.
Myles, Michael J.; Kupcikevicius, Vytautas; and Beckman, John H.,3,457,588.
Kupcikevicius, Vytautas, to Union Carbide Corporation. Casing closure apparatus. 3,483,801, 12-16-69, Cl. 93-8.
Kuper, Donald G., to Phillips Petroleum Company. Cyano acetals. 3,466,317, 9-9-69, Cl. 260-465.6
Kuper, Walter, to Trelleborgs Gumnufabriks Aktiebolag. Screens for removal of liquid from sludge materials. 3,428,184, 2-18-69, Cl. 210-489.
Kupersmit, Julius B. Collapsible refusable bulk shipping container. 3,443,737, 5-13-69, Cl. 229-23.
Kupersmit, Julius B. Static charge detector. 3,452,346, 6-24-69, Cl. 340-248.
Kupersmit, Julius B. Clip for fibrous containers. 3,466,710, 9-16-69, Cl. 24-73.
Kupferschmidt, Albert: *See*—
Grichnik, James A.; and Kupferschmidt, Albert,3,469,903.
Kupfmuller, Karl, to International Standard Electric Corporation. Printing mechanism with magnetic selection means. 3,420,349, 1-7-69, Cl. 197-14.
Kuppenbender, Heinz; and Hochstein, Roland, to Zeiss Ikon Aktiengesellschaft. Camera release particularly for motion picture. 3,441,344, 4-29-69, Cl. 352-169.
Kupper, Karl Alfred, to Vita Zahnfabrik H. Rauter K.G. Artificial tooth. 3,445,932, 5-27-69, Cl. 32-10.
Kupper, Wilhelm, to Reiners, Walter. Pneumatic device for seizing a starting length of yarn wound on a cop. 3,441,230, 4-29-69, Cl. 242-35.6
Kupper, Wilhelm, to Reiners, Walter. Device for pneumatically removing the tip or foot bunch from supply coils. 3,464,640, 9-2-69, Cl. 242-35.6
Kuppers, Klaus: *See*—
Dopper, Otto; Bollig, Georg; Schroder, Egbert; Kuppers, Klaus; and Schulz, Alfred,3,469,429.
Kupsis, Visvaldis; and Morgan, Royston P., to Youngstown Sheet and Tube Company, The. Production of tin plate. 3,433,720, 3-18-69, Cl. 204-34.
Kuramochi, Shigeaki. Toy sewing machine. 3,435,789, 4-1-69, Cl. 112-169.
Kuramochi, Shigeaki. Copying press toy. 3,486,443, 12-30-69, Cl. 101-132.5
Kuramoto, Simpey: *See*—
Carroll, David A.; and Kuramoto, Simpey,3,482,998.
Christianson, George; Carroll, David A.; and Kuramoto, Simpey,3,482,996.

Kurashige, Hirotoshi: *See—*
Ashikaga, Tadao; Kurashige, Hirotoshi; and Endoh, Takeo,3,484,409.
Kurashiki Rayon Co., Ltd.: *See—*
Aoe, Seigo; and Hashimoto, Kiyoji, 3,434,272.
Ashikaga, Tadao; Kurashige, Hirotoshi; and Endoh, Takeo, 3,484,409.
Fukushima, Osamu; Hayanami, Hiroshi; and Nagoshi, Kazuo, 3,424,604.
Fukushima, Osamu; Noda, Kazuo; Kishida, Tamon; and Ochi, Toshiharu, 3,483,015.
Fukushima, Osamu; Nagoshi, Kazuo; and Noda, Kazuo, 3,483,283.
Imoto, Saburo; and Ohara, Osamu, 3,457,211.
Imoto, Saburo; Ikari, Kyoichiro; and Hattori, Tatsuaki, 3,476,582.
Kawamura, Saburo; and Takata, Masaru, 3,471,594.
Matsubayashi, Kanji; and Kawaguchi, Takuo, 3,420,796.
Matsubayashi, Kanji; and Segawa, Hiroyuki, 3,428,598.
Matsubayashi, Kanji; and Kawaguchi, Takuo, 3,446,771.
Matsubayashi, Kanji; and Noda, Kazuo, 3,457,327.
Matsubayashi, Kanji; Yasui, Takeshi; and Sano, Shiro, 3,464,198.
Matsubayashi, Kanji; and Segawa, Hiroyuji, 3,476,850.
Miyake, Shunji; and Hirano, Katsuaki, 3,440,316.
Naito, Ryunosuke; and Yamada, Shoichi, 3,467,696.
Nakajo, Shogo; Sano, Shiro; Nagoshi, Kazuo; and Hosoda, Katsutoshi, 3,481,765.
Sezaki, Juniti; Hattori, Tatsuaki; Ikari, Kyoichiro; and Imoto, Saburo, 3,442,848.
Tsuboi, Kiyoshi; and Mochizuki, Takani, 3,427,298.
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru, 3,484,334.
Yamauchi, Junnosuke; Eguchi, Tamotsu; and Matsubayashi, Kanji, 3,425,992.
Yasuda, Yoshifumi, 3,443,566.
Yasui, Takeshi; and Matsubayashi, Kanji, 3,482,010.
Kurata, Fred: *See—*
Swift, George W.; and Kurata, Fred,3,455,116.
Kurata, Masaya: *See—*
Suzuki, Saburo; Kurata, Masaya; Akiyoshi, Akikazu; Aoshima, Shozo; Dan, Hirohiko; and Matsuoka, Norimichi,3,484,472.
Kurata, Naoji; Matsumoto, Takehiko; Ohara, Takashi; and Oda, Kenzo, to Nippon Shokubai Kagaku Kogyo Kabushiki Kaisha. Manufacture of unsaturated aliphatic carboxylic acids. 3,487,109, 12-30-69, Cl. 260-533.
Kurata, Naoji; Ohara, Takashi; and Oda, Kenzo, to Nippon Shokubai Kagaku Kogyo Kabushiki Kaisha. Manufacture of unsaturated aliphatic carboxylic acids. 3,475,488, 10-28-69, Cl. 260-533.
Kuratani, Keijiro: *See—*
Nakagawa, Kazumi; and Kuratani, Keijiro,3,483,576.
Nakagawa, Kazumi; Kuratani, Keijiro; Tsutsui, Nobuhiro; and Minami, Shinsaku,3,463,846.
Kurath, Paul, to Abbott Laboratories. 3,11,17-Trisubstituted-C-norandrostane-11α,17- lactones. 3,468,911, 9-23-69, Cl. 260-343.3
Kuratomi, Tatsuo, to Takeo Kagitani. Method of making steel-cored aluminium cable. 3,440,721, 4-29-69, Cl. 29-624.
Kuratomi, Tatsuo, to Takeo Kagitani. Method of chemically bonding carbon-titanium alloy to a diamond surface. 3,464,804, 9-2-69, Cl. 51-293.
Kuratomi, Tatsuo, to Takeo Kagitani. Steel-cored rod as a component of an aluminum cable, the cable and process of making the rod. 3,468,119, 9-23-69, Cl. 57-145.
Kurbi and Niggeloh: *See—*
Meinunger, Hellmut, 3,453,011.
Kurdyla, Nicholas, to Canadair Limited. Temperature compensating mechanism for hall effect device. 3,435,332, 3-25-69, Cl. 323-94.
Kureha Chemical Industry Co., Ltd.: *See—*
Mayumi, Kanji; Yamaki, Kiyoshi; Konishi, Akio; Suzuki, Shigeyuki; and Kiyama, Soji, 3,428,482.
Kureha Kagaku Kogyo: *See—*
Takahashi, Miyao; Ito, Yukihiko; Yamada, Katsunori; and Amemiya, Mitsuo, 3,483,061.
Kureha Kagaku Kogyo Kabushiki Kaisha: *See—*
Fukada, Joji; Akatsu, Seiji; Sugahara, Mitsuaki; Kurita, Yoshiji; and Kawabe, Naoshi, 3,464,121.
Hoshi, Yuji; and Kaneko, Akira, 3,442,838.
Kuribara, Tomio: *See—*
Nagakura, Akira; Iyoshi, Koichi; Kuribara, Tomio; and Ishiwara, Yoshimi,3,453,840.
Kuribayashi, Sadatomo; Tayama, Eisei; Mishima, Makio; and Yuzawa, Syuichi, to Coal Research Institute, and Kay Seven Co., Ltd. Method and apparatus for treating liquid fuel oil. 3,451,379, 6-24-69, Cl. 123-1.
Kurihara, Haruki: *See—*
Moroe, Tatsuo; Hattori, Satohiko; Komatsu, Akira; Matsui, Takeshi; and Kurihara, Haruki,3,459,773.
Kurihara, Kazunobu; Ichinose, Noboru; Tanno, Yoshikazu; and Yokoyama, Katsunori, to Tokyo Shibaura Electric Co., Ltd. Piezoelectric ceramic materials. 3,472,779, 10-14-69, Cl. 252-62.9
Kurihara, Kazunobu; Ichinose, Noboru; Yokoyama, Hirotaka; and Yokoyama, Katsunori, to Tokyo Shibaura Electric Co., Ltd. Piezoelectric ceramic materials. 3,468,799, 9-23-69, Cl. 252-62.9
Kurihara, Masakazu: *See—*
Ishida, Shin'ichi; Kato, Toshio; Kurihara, Masakazu; Takahashi, Yasunobu; and Fukuda, Hiromichi,3,462,394.
Ouchi, Shunji; Yamada, Hiraku; Kameyama, Naohito; Kurihara, Masakazu; Senoh, Saburo; and Sowa, Tuneo,3,475,409.
Kurihara, Masaru: *See—*
Nakanishi, Ryoji; Yoda, Naoya; and Kurihara, Masaru,3,424,728.
Yoda, Naoya; Nakanishi, Ryoji; Kubota, Takashi; Kurihara, Masaru; and Ikeda, Kojyuro,3,468,851.
Kurihara, Shinpei: *See—*
Manaka, Kazuo; and Kurihara, Shinpei,3,475,240.
Kurimsky, Albert: *See—*
Auerbach, William A.; Kurimsky, Albert; and Calzaretta, Richard,3,446,327.
Calzaretta, Richard; Kull, Leo; and Kurimsky, Albert,3,437,237.
Kurimura, Shizuo: *See—*
Tanaka, Isokazu; and Kurimura, Shizuo,3,465,337.
Kurimura, Toshio; and Yamamura, Kazuomi. Rectifying apparatus for producing constant D.C. output voltage. 3,422,341, 1-14-69, Cl. 321-18.
Kurimura, Toshio; Yamamura, Kazuomi; and Murahashi, Tsuneo, to Kokusai Denshin Denwa Kabushiki Kaisha. Rectifying apparatus for producing a constant DC output voltage. 3,454,862, 7-8-69, Cl. 321-18.
Kurisu, Kimiko: *See—*
Seko, Maomi; Kakihana, Hidetake; and Kurisu, Kimiko,3,425,924.
Kurita Industrial Co., Ltd.: *See—*
Sekikawa, Yasuhiro; and Tanaka, Ikuo, 3,444,076.
Suzuki, Shizuo; and Takeuchi, Koso, 3,454,427.
Kurita, Yoshiji: *See—*
Fukada, Joji; Akatsu, Seiji; Sugahara, Mitsuaki; Kurita, Yoshiji; and Kawabe, Naoshi,3,464,121.
Kuritzkes, Alexander M. Nail enamel composition containing quaternary ammonium cation modified montmorillonite clays. 3,422,185, 1-14-69, Cl. 424-61.
Kuriyagawa, Mamoru; Yagi, Motoi; and Ohkawa, Motokazu, to Tokyo Shibaura Electric Co., Ltd. Disc recording system with precompensation by successive differentiation. 3,484,566, 12-16-69, Cl. 179-100.4
Kurkowski, Albert Robert; and Carpenter, Robert Edward, to Allied Chemical Corporation. Granular unsaturated polyester molding composition. 3,462,514, 8-19-69, Cl. 260-861.
Kurland, Jerome J. Speed register. 3,473,731, 10-21-69, Cl. 235-70.
Kurlandsky, Sam, to Aero-Motive Manufacturing Company. Chain for supporting flexible conduit. 3,448,953, 6-10-69, Cl. 248-51.
Kurlandsky, Sam, to Aero-Motive Manufacturing Company. Chain for supporting flexible conduit. 3,448,954, 6-10-69, Cl. 248-51.
Kuroda, Ekiji: *See—*
Takezaki, Tsuneo; Kuroda, Ekiji; and Fukui, Kiyotake,3,447,087.
Kuroda Seiko Co., Ltd.: *See—*
Kawabata, Minoru, 3,457,943.
Kuroda, Susumu, to Kawamoto Industrial Co., Ltd. Method of and apparatus for sizing and drying warps of man-made filament yarns. 3,449,808, 6-17-69, Cl. 28-28.
Kuroda, Susumu, to Kawamoto Industrial Co., Ltd. Method of and apparatus for sizing warps. 3,466,717, 9-16-69, Cl. 28-28.
Kuroda, Takaji; and Kitazume, Susumu, to Nippon Electric Company, Limited. Temperature compensated multielement waveguide device having susceptance elements. 3,422,380, 1-14-69, Cl. 333-83.
Kuroda, Takayuki: *See—*
Mikoda, Masanari; Hikino, Tadashi; and Kuroda, Takayuki,3,421,916.
Kurokawa, Harutoshi; Machida, Junzo; Nishikawa, Takao; Hirata, Eiichi; and Hisaki, Hisao, to Toyo Rayon Kabushiki Kaisha. Method of coloring hydrophobic fibers and films. 3,454,348, 7-8-69, Cl. 8-4.
Kurokawa, Hidemoto: *See—*
Noyori, Gentaro; Kurokawa, Hidemoto; and Watanabe, Teiko,3,450,751.
Kurokawa, Ikuji: *See—*
Mochida, Yasunori; Kurokawa, Ikuji; Ishimura, Kazukiyo; and Sotome, Hiromi,3,464,514.
Kurokawa, Susumu: *See—*
Kitagawa, Hiroshi; Inoue, Toshio; Kurokawa, Susumu; and Horigome, Shinkichi,3,441,506.
Kurokawa, Takaai; and Fukuda, Mitsugu, to Tokyo Shibaura Denki Kabushiki Kaisha. Cooled roller. 3,446,275, 5-27-69, Cl. 165-90.
Kurokawa, Takaaki; and Inoue, Noboru, to Tokyo Shibaura Denki Kabushiki Kaisha. Plate conveyor. 3,459,290, 8-5-69, Cl. 198-189.

Kuroki, Hayashi: *See—*
Ikeda, Yutaka; Hoshino, Mashiro; and Kuroki, Hayashi,3,457,615.
Kuroki, Motoharu; and Kato, Toshihiro;, to Fuji Shashin Film Kabushiki Kaisha. Process for drying pliable supports. 3,481,046, 12-2-69, Cl. 34-10.
Kurokochi, Michiharu: *See—*
Usui, Akira; Kurokochi, Michiharu; and Sugiyama, Shigeo,3,431,160.
Kurosawa, Toshio; and Shiba, Hiroshi, to Nippon Electric Company Limited. Semiconductor device having regions with pre- selected different minority carrier lifetimes. 3,423,647, 1-21-69, Cl. 317-234.
Kuroyanagi, Noriyoshi; and Matsuura, Yoshihisa, to Nippon Telegraph and Telephone Public Corporation. Speed conversion systems for pulse signals in a PCM system. 3,480,734, 11-25-69, Cl. 179-15.
Kurpis, Gediminas P.; and Taub, Jesse J., to Cutler-Hammer, Inc. Distributed constant transversal equalizer. 3,487,337, 12-30-69, Cl. 333-28.
Kurpisz, Zenon Jan; Connor, Gerald James; and Curtis, James Patrick, to International Standard Electric Corporation. Method of making thyristors having electrically interchangeable anodes and cathodes. 3,435,515, 4-1-69, Cl. 29-580.
Kursevich, John F.: *See—*
McCaffray, Edmund, Jr.; and Kursevich, John F.,3,463,412.
Kurshenoff, Herbert. Adjustable comb for applying a liquid. 3,457,928, 7-29-69, Cl. 132-113.
Kursteiner, Hans Arthur. Package for cigarettes. 3,444,992, 5-20-69, Cl. 206-48.
Kurt, Ewald H.; Wickens, Edward F.; and Lewis, Samuel P., to Ingersoll-Rand Company. Bearing. 3,424,065, 1-28-69, Cl. 92-167.
Kurten, Wilhelm: *See—*
Fehst, Jurgen; Kurten, Wilhelm; and Schettlinger, Herbert,3,451,521.
Kurth, Hans: *See—*
Strohschein, Manfred; Glaser, Josef; and Kurth, Hans,3,439,736.
Kurth, Matthew G. Stepless variable speed transmission. 3,481,210, 12-2-69, Cl. 74-119.
Kurth, Raymond P.; and Vartanian, Levon. Toe aeration appliance. 3,429,309, 2-25-69, Cl. 128-81.
Kurth, Warren: *See—*
Kidera, Edward H.; Kurth, Warren; and Whittingham, David J.,3,431,759.
Kurti, Alexander; and Batt, Richard W., to United Aircraft Corporation. Planetary gear system drive mechanism. 3,485,450, 12-23-69, Cl. 239-265.35
Kurtz, Abraham N., to Union Carbide Corporation. Production of methylamines. 3,444,203, 5-13-69, Cl. 260-583.
Kurtz, Abraham N.; Billups, Wilbur E.; and Farmer, Melvin L., to Union Carbide Corporation. Production of 1,3-diamines. 3,487,111, 12-30-69, Cl. 260-585.
Kurtz, Abraham N.; and Hamil, Henry F., to Union Carbide Corporation. Isomerization of acetylenic compounds to conjugated diolefins. 3,432,498, 3-11-69, Cl. 260-247.
Kurtz, Clark: *See—*
Allen, Richard G.; Kurtz, Clark; Mac Sorley, Olin L.; Spencer, Dana R.; and Stetler, Wesley C.,3,474,239.
Kurtz, Curtis E., to Borg-Warner Corporation. Hydraulic transmission for fabric-treating machines. 3,433,035, 3-18-69, Cl. 68-23.
Kurtz, Curtis E., to Borg-Warner Corporation. Hydraulic transmission for fabric-treating machines. 3,444,709, 5-20-69, Cl. 68-23.
Kurtz, Curtis E., to Borg-Warner Corporation. Control valve arrangement for hydraulic motors. 3,460,347, 8-12-69, Cl. 60-52.
Kurtz, Donald R.: *See—*
Crouch, Donald W.; and Kurtz, Donald R.,3,469,049.
Kurtz, Manfred; and Bangert, Lothar, to Hermann Wangner Kommanditgesellschaft. Endless metallic screen for the screen portion of a paper machine. 3,432,126, 3-11-69, Cl. 245-10.
Kurtz, Peter; and Disselnkotter, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of derivatives of N-acyl vinylamine. 3,424,791, 1-28-69, Cl. 260-558.
Kurtz, Richard J.: *See—*
Angelucci, George V.; Kurtz, Richard J.; and O'Fallon, Richard G.,3,434,770.
Kurtz, Samuel E.: *See—*
Hurst, Jerry C.; and Kurtz, Samuel E.,3,480,165.
Kurtz, Stewart K., to Bell Telephone Laboratories, Incorporated. Lamellate optically responsive memory arrangement. 3,475,736, 10-28-69, Cl. 340-173.
Kurtz, Stewart S., Jr.: *See—*
Bohrer, Byron B.; and Kurtz, Stewart S., Jr.,3,431,249.
Kurtzmann, Udo, to Sohne, W. Ferd., Klingelnberg. Connection of circular knives on smooth shafts. 3,455,586, 7-15-69, Cl. 287-52.
Kuru, Isamu, to Tokyo Shibaura Electric Co., Ltd. Frequency modulator using an N-type semiconductor oscillation device. 3,465,265, 9-2-69, Cl. 332-30.
Kuruklis, Georgy Leonidovich: *See—*
Niskovskikh, Vitaly Maximovich; Kuruklis, Georgy Leonidovich; Gelfenbein, Evgeny Jukimovich; Tarlinsky, Isai Vulfovich; and Khorev, Viktor Nikolaevich,3,447,588.
Kuruma, Hiroshi: *See—*
Ito, Ken; Kaminaka, Hiroshi; Hamada, Takaki; and Kuruma, Hiroshi,3,484,491.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,047.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,048.
Kurumada, Tomoyuki: *See—*
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,436,369.
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,448,074.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,233.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi,3,474,068.
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,232.
Kurumada, Tomyuki: *See—*
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide,3,437,633.
Kuryla, William C., to Union Carbide Corporation. N,N-dialkylglycidylamine-capped polyols. 3,428,708, 2-18-69, Cl. 260-830.
Kuryla, William C.; and Childers, John W., Jr., to Union Carbide Corporation. Cold crack-free rigid urethane foams. 3,472,800, 10-14-69, Cl. 260-2.5
Kuryla, William C.; and Knopf, Robert J., to Union Carbide Corporation. Polyurethane foams based on a halogenated quasi-prepolymer. 3,467,607, 9-16-69, Cl. 260-2.5
Kurz, Alvin M.: *See—*
Rhodes, Eugene E.; and Kurz, Alvin M.,3,433,044.
Kurz and Root Company, Inc.: *See—*
Lund, Walter W.; and Mahloch, Carl Peter, 3,452,786.
Lund, Walter W., 3,453,468.
Kurz, Fredrik Wilhelm Anton; and Wikne, Sverre. Method of impregnating a foamed plastic and the impregnated foamed plastic. 3,451,842, 6-24-69, Cl. 117-98.
Kurz, Karl, to Sudbau Suddeutsche Bautechnik G.m.b.H. Apparatus for laminating and coating insulating panels. 3,446,687, 5-27-69, Cl. 156-390.
Kurz, Milton. Knitted mesh fabric. 3,447,345, 6-3-69, Cl. 66-195.
Kurz, Roy R. Plow assembly. 3,469,636, 9-30-69, Cl. 172-314.
Kurzinski, Edward F., to Selas Corporation of America. Continuous metal heating. 3,446,490, 5-27-69, Cl. 263-3.
Kurzke, Herbert: *See—*
Forster, Paul Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunter,3,480,586.
Forster, Paul-Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunther,3,446,772.
Kurzke, Herbert; Bauer, Gunther; and Heinrich, Karl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Heated godet for stretching synthetic filaments and films. 3,479,689, 11-25-69, Cl. 18-1.
Kurzl, Albert; and Steinkamp, Johann, to Siemens Aktiengesellschaft. Filter for very short electromagnetic waves. 3,460,074, 8-5-69, Cl. 333-73.
Kurzwell, Fred, Jr.; and Sordello, Frank J., to International Business Machines Corporation. Tracking system for deformation recording. 3,475,734, 10-28-69, Cl. 340-173.
Kus, Joseph E.: *See—*
Meeder, Raymond L.; and Kus, Joseph E.,3,480,778.
Kus, Stanley T.; and Koenig, Fred W., to Standard Oil Company (Indiana). Process for producing foams from carboxylic acid derivatives and isocyanates by water catalysis. 3,479,305, 11-18-69, Cl. 260-2.5
Kusa, Henry J., to Clevite Corporation. Circuit for substantially eliminating radio frequency interference. 3,440,445, 4-22-69, Cl. 307-252.
Kusaga, Atsushi: *See—*
Mashio, Fujio; and Kusaga, Atsushi,3,457,232.
Kusaka, Dan H.: *See—*
Lagoe, James A.; and Kusaka, Dan H.,3,427,554.
Kusaka, Kazuji, to Kusaka Rare Metal Products Co., Ltd. Process for producing a magnesium-containing spherical graphite cast iron having little dross present. 3,421,887, 1-14-69, Cl. 75-130.
Kusaka, Masakatsu: *See—*
Ozeki, Toshitsugu; and Kusaka, Masakatsu,3,474,130.
Kusaka Rare Metal Products Co., Ltd.: *See—*
Kusaka, Kazuji, 3,421,887.

Kusaka, Teiji: *See—*
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji,3,440,035.

Kusama, Jun; Fujihara, Teruhisa; and Chihara, Yuzo, to Chisso Corporation. Process for producing solvent for paint and lacquer. 3,475,343, 10-28-69, Cl. 252-364.

Kusama, Jun; Fujiwara, Teruhisa; and Chihara, Yuzo. Poly-α-olefin composition stabilized with β,β-thio-dibutyrates. 3,455,876, 7-15-69, Cl. 260-45.85

Kusano, Masayuki, to Fujitsu Limited. Electromagnetic relay of small size and simple structure with unitary core and yoke member. 3,431,521, 3-4-69, Cl. 335-124.

Kusatake, Sugiaki. Concrete block. 3,456,446, 7-22-69, Cl. 61-4.

Kusayama, Senji: *See—*
Fukuoka, Yukio; Kusayama, Senji; and Suzuki, Mamoru,3,457,212.

Kusch, Heinz, to Telefunken Patentverwertungsgesellschaft m.b.H. Circuit arrangement for recognizing spoken numbers. 3,445,594, 5-20-69, Cl. 179-1.

Kuschke, Gunther: *See—*
Weirich, Walter; and Kuschke, Gunther,3,435,620.

Kuschke, Renate: *See—*
Brauer, Horst; Fenner, Erich; and Kuschke, Renate,3,441,517.

Kusel, Edward J.; and Mankin, Robert S. Handrail mounting means. 3,433,460, 3-18-69, Cl. 256-65.

Kushihashi, Akira, to Nippon Sheet Glass Co., Ltd. Glass having a colored zone whose boundary has been blurred and method of producing the same. 3,455,722, 7-15-69, Cl. 117-45.

Kushihashi, Akira; and Fujiwara, Kenji, to Nippon Sheet Glass Co., Ltd. Method of forming semitransparent coating of gold on glass surface. 3,484,263, 12-16-69, Cl. 117-33.3

Kushmuk, Walter P., to Ammco Tools, Inc. Brake disc grinder. 3,456,401, 7-22-69, Cl. 51-259.

Kushmuk, Walter P.; and Bogaerts, Leo C., to Immco Tools, Inc. Wheel balancer tilting mechanism. 3,483,757, 12-16-69, Cl. 73-485.

Kushner, Lester L. Magnetic beam switching cathode-ray tube. 3,426,239, 2-4-69, Cl. 315-21.

Kushnir, Bud William: *See—*
Fraser, Robert William; Kushnir, Bud William; and Weizenbach, Bauke,3,454,431.

Kusiak, Edward H.: *See—*
Barnes, Philip E.; and Kusiak, Edward H.,3,470,748.

Kusiak, Ladislav: *See—*
Bursik, Jan; Bursik, Ladislav; Kusiak, Ladislav; and Nierla, Miroslav,3,439,606.

Kusik, Alan, to Organon, Inc. Collection assembly for diagnostic testing. 3,437,206, 4-8-69, Cl. 210-231.

Kusik, Charles L.: *See—*
Flood, Harold W.; Kusik, Charles L.; and Tremblay, Frank J.,3,440,009.

Kusko, Alexander: *See—*
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander,3,421,050.

Kusler, Calvin J. Paper for use with a formula for measuring lumber. 3,423,108, 1-21-69, Cl. 283-44.

Kusmer, Kasimir C. Land vehicle propulsion. 3,420,326, 1-7-69, Cl. 180-6.2

Kusnick, Arthur A.: *See—*
Brenza, James G.; and Kusnick, Arthur A.,3,480,910.

Kuss, R. L., & Co., Inc.: *See—*
Kuss, Ralph L., 3,464,480.

Kuss, Ralph L., to Kuss, R. L., & Co., Inc. Attachment device for flexible sheets. 3,464,480, 9-2-69, Cl. 160-368.

Kusserow, Howard F., to Denver Plastics, Inc. Bung for barrel. 3,473,686, 10-21-69, Cl. 217-108.

Kussmaul, Edwin E., to Kelek Company, The. Pressure adjustment means for bolted contact switch. 3,458,680, 7-29-69, Cl. 200-170.

Kussy, Frank W.; and Di Marco, Bernard, to I-T-E Circuit Breaker Company. Electromagnet. 3,437,885, 4-8-69, Cl. 317-150.

Kuster, Edward H. Protective garment hanger bracket. 3,423,058, 1-21-69, Cl. 248-301.

Kuster, Harry B., to Golay & Co., Inc. Package unit for handling shipping containers. 3,451,568, 6-24-69, Cl. 214-77.

Kusters, Eduard; and Appenzeller, Valentin. Method and means for the delayed passing of textile and other breadths through a processing chamber. 3,448,469, 6-10-69, Cl. 8-150.

Kusters, Norbert Leo: *See—*
Mac Martin, Malcolm Pearson; and Kusters, Norbert Leo,3,484,691.

Kustom Electronics, Inc.: *See—*
Ross, Charles A., 3,478,837.

Kustwin, Leo Frank, to Crane Co. Coupling stop adjustment for rotary valves. 3,429,556, 2-25-69, Cl. 251-285.

Kusuda, Fuyuki; Murayama, Masao; Matsuo, Yoshiharu; Okumura, Hideo; and Tatewaki, Nobukiyo, to Nippon Shinyaku Co., Ltd. Imidazolidinone derivatives. 3,442,892, 5-6-69, Cl. 260-240.

Kutas, Albert F.; Allen, James Terry; and Jelinek, Jerry G., to Parker-Hannifin Corporation. Liner seal for diesel engines and the like. 3,485,142, 12-23-69, Cl. 92-169.

Kutch, Leonard P., to Pullman Incorporated. Operating mechanism for vehicle discharge means. 3,447,703, 6-3-69, Cl. 214-63.

Kutchai, Jacob H. Structural assembly. 3,485,005, 12-23-69, Cl. 52-648.

Kutcher, Eugene R.: *See—*
Herbenar, Edward J.; Cass, Richard; and Kutcher, Eugene R.,3,430,995.

Kutcher, Myron Martin: *See—*
Bennett, Jack Plymette; Gordon, David; and Kutcher, Myron Martin,3,471,778.

Kutchera, Arthur W., to Minnesota Mining and Manufacturing Company. Method of processing a photographic film insert in an aperture card. 3,423,204, 1-21-69, Cl. 96-27.

Kutchko, John R.: *See—*
Vrotney, Stephen R.; and Kutchko, John R.,3,449,468.

Kuth, Robert: *See—*
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert,3,470,178.
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert,3,486,837.

Kutik, Louis F., 50% to Gronemeyer, Erich W. Plastic product. 3,446,341, 5-27-69, Cl. 206-46.

Kutik, Louis F., to Precision Valve Corporation. Tiltable spray button. 3,464,597, 9-2-69, Cl. 222-529.

Kutik, Louis F.; and Gronemeyer, Erich W. Mold apparatus for bristled products. 3,467,990, 9-23-69, Cl. 18-42.

Kutner, Abraham, to Hercules Incorporated. Process for purifying polyolefins. 3,445,444, 5-20-69, Cl. 260-93.7

Kutney, John T., and: *See—*
Fischer, Lee J.; Becker, Edward R.; Kutney, John T., and; and McHugh, Donald P.,3,442,471.

Kutney, John T.; and Erwin, John R., to General Electric Company. Simulated reaction engine model. 3,434,679, 3-25-69, Cl. 244-53.

Kutny, William J., Jr.: *See—*
Akervold, Orrill L.; and Kutny, William J., Jr.,3,457,543.

Kuts, Mathew, to Goodrich, B. F., Company, The. Hose testing apparatus. 3,477,134, 11-11-69, Cl. 33-174.

Kuts, Richard M.; and Rehman, John L., to Falls Engineering & Machine Company, The. Indexing apparatus. 3,465,863, 9-9-69, Cl. 192-143.

Kutschbach, Ernst, to VEB Buchungsmaschinenwerk Karl Marx-Stadt. Disconnectable pulse generator. 3,461,404, 8-12-69, Cl. 331-111.

Kutsuma, Teruo: *See—*
Yamase, Yoshiaki; and Kutsuma, Teruo,3,428,590.

Kuttner, Hilmar: *See—*
Miederer, Walter; and Kuttner, Hilmar,3,428,428.

Kutyla, John: *See—*
Koda, Arthur J.; and Kutyla, John,3,470,502.

Kutz, Kenneth J., to Texas Gulf Sulphur Company. Slurry mining of carnallite. 3,442,553, 5-6-69, Cl. 299-4.

Kutzsche, Armin: *See—*
Peissker, Horst; Kutzsche, Armin; and Muftic, Mahmoud,3,457,262.

Kuusik, Uno: *See—*
Greif, Herman J., Jr.; Kuusik, Uno; and Koch, David A.,3,485,440.

Kuwabara, Michichika; Nawata, Kiyoshi; Tsunawaki, Kiyokazu; and Sakakibara, Seizaburo, to Teijin Limited. Synthetic linear copolyterephthalamides and shaped articles made therefrom. 3,432,476, 3-11-69, Cl. 260-78.

Kuwabara, Susumu, to Beltek Kabushiki Kaisha. Interchangeable four-track and eight-track magnetic recording and reproducing device. 3,465,940, 9-9-69, Cl. 226-176.

Kuwahara, Masayuki. Electric cleaner or double jet stream. 3,454,978, 7-15-69, Cl. 15-327.

Kuwana, Motoyuki: *See—*
Kamio, Kosaku; and Kuwana, Motoyuki,3,477,972.

Kuwata, Masanobu: *See—*
Shohji, Senji; Kobayashi, Kazuo; Kuwata, Masanobu; Watanabe, Yutaka; and Hirai, Tadamasa,3,474,301.

Kuwata, Tsutomu: *See—*
Ohmori, Tadashi; and Kuwata, Tsutomu,3,424,782.

Kuwayama, Shigeru. Simple sound reproducing device. 3,467,393, 9-16-69, Cl. 274-9.

Kuwazaki, Masahiro: *See—*
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa,3,440,105.

Kuykendall, Earl G.: *See—*
Vogel, Robert E.; Hermanson, Bernard A.; and Kuykendall, Earl G.,3,465,536.

Kuykendall, Edward A. Precooler. 3,427,005, 2-11-69, Cl. 261-26.

Kuyper Norbert T., to Difco Laboratories, Incorporated. Apparatus for storing article dispensers. 3,445,149, 5-20-69, Cl. 312-31.

Kuzara, James H., to Reliance Electric and Engineering Company, The. Group elevator control having car call reset advance hall call assignment. 3,450,231, 6-17-69, Cl. 187-29.
Kuze, Yoshikazu. Thermostat. 3,427,883, 2-18-69, Cl. 73-368.3
Kuzma, Edward L. Golf club carrying case with swingable leg and handle assembly. 3,455,358, 7-15-69, Cl. 150-1.5
Kuzmak, Joseph M., to FMC Corporation. Method of preparing regenerated cellulose-styrene graft copolymer. 3,475,357, 10-28-69, Cl. 260-17.4
Kuzmak, Joseph M.; and Munoz, Wenceslao, to FMC Corporation. Wet state cross-linking of carboxyalkyl cellulose ether modified regenerated cellulose fibers. 3,423,167, 1-21-69, Cl. 8-129.
Kuzmak, Joseph M.; and Schappel, Joseph W., to FMC Corporation. Method of preparing shaped articles of cellulose graft copolymers. 3,445,556, 5-20-69, Cl. 264-195.
Kuznetsov, Leonid Georgievich: *See—*
Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Kuznetsov, Leonid Georgievich; Niskovskikh, Vitaly Maximovich; and Rolnik, Savva Abramovich,3,480,075.
Kuznetsov, Viktor Sergeevich; Belyaev, Evgeny Ivanovich; Tereschenko, Tatiana Petrovna; Pechnikov, Nikolai Alexandrovich; Tashilin, Vyacheslav Fedorovich; Koritыssky, Yakov Ilich; and Korney, Igor Vladimirovich. Sockets for spindles. 3,438,191, 4-15-69, Cl. 57-135.
Kuznetsov, Vladimir Ilich: *See—*
Ivanov, Nikolai Dmitrievich; Kaminsky, Fridrikh Davydovich; and Kuznetsov, Vladimir Ilich,3,473,072.
Kuznetsova, Olja Alexandrovna: *See—*
Kuljbakh, Valjter Osvaljdovich; Sokolov, Leonid Borisovich; Sveshnikov, Jury Fedorovich; Kuznetsova, Olja Alexandrovna; Malinovskaja, Galina Nickolaevna; and Raigorodskaja, Valentina Jakovlevna,3,439,090.
Kuzovkov, Alexandr Dmitrievich: *See—*
Ilinskaya, Tamara Nikolaevna; Kuzovkov, Alexandr Dmitrievich; Vichkanova, Serafima Alexandrovna; Rubinchik, Mira Abramovna; Tolstykh, Ljudmila Petrovna; and Aleshkina, Yanina Adolfovna,3,464,975.
Kvarda, Joseph C: *See—*
Shagena, Jack L.; and Kvarda, Joseph C,3,459,892.
Kvavle, Robert C.; Lewis, William L.; and De Caro, Charles J., to United Shoe Machinery Corporation. Power devices employing impact ignited low explosive. 3,469,757, 9-30-69, Cl. 227-10.
Kveglis, Albert A.: *See—*
Baron, Joseph J., Jr.; and Kveglis, Albert A.,3,429,865.
Kolyer, John M.; and Kveglis, Albert A.,3,444,142.
Kvenvolden, Keith A., to Mobil Oil Corporation. Geochemical exploration. 3,480,396, 11-25-69, Cl. 23-230.
Kvernelands Fabrikk A/S: *See—*
Nja, Olav, 3,486,566.
Kvlglis, Albert A.: *See—*
Kolyer, John M.; and Kvlglis, Albert A.,3,478,025.
KW Battery Company: *See—*
Dickover, Marion Ward; and Ritchie, William N., 3,468,721.
Kwaak, Johannes. Rotary piston engine. 3,441,007, 4-29-69, Cl. 123-8.
Kwake, John P. Means for constant pressurization of inflatable and other enclosures. 3,478,472, 11-18-69, Cl. 52-1.
Kwan, Fred K. C.; Ross, Richard C.; and Svoboda, Glenn R., to Freeman Chemical Corporation. Thickened polymerizable unsaturated polyester resin compositions and fibrous substances impregnated therewith. 3,432,458, 3-11-69, Cl. 260-33.4
Kwap, Theodore W.; and Ruoff, Carl E., to International Business Machines Corporation. Apparatus for indicating response of a test circuit to an applied pulse. 3,431,490, 3-4-69, Cl. 324-57.
Kwapisz, Raymond A., to General Motors Corporation. Seam sealer for plastic materials. 3,421,957, 1-14-69, Cl. 156-153.
Kwartiroff, Alexis A.; and Tchinnis, Michael F., to Giannini Scientific Corporation, mesne. Cable equalizer. 3,456,206, 7-15-69, Cl. 330-32.
Kwasniewski, Edward D.; and Barton, Howard E., to Carborundum Company, The. Felt cleaner for paper making machine. 3,420,736, 1-7-69, Cl. 162-274.
Kwast, Theodore E.: *See—*
Johnson, Dwight N.; and Kwast, Theodore E.,3,485,105.
K W Battery Company: *See—*
Steinkamp, Keith J.; and Terzic, Brant, 3,475,061.
Kwestroo, Wim; and Vromans, Petrus Helena Gerardus Maria, to U.S. Philips Corporation, mesne. Method of producing pure redlead monoxide. 3,450,496, 6-17-69, Cl. 23-146.
Kwiat, Eugene V.: *See—*
Nelson, Alvin I.; and Kwiat, Eugene V.,3,446,635.
Kwiatanowski, Philip, Jr.; and Shebs, Theodore L., to Johns-Manville Corporation. Shock-resistant high-temperature-resistant- pressure-sensitive-adhesive insulation. 3,464,543, 9-2-69, Cl. 206-59.
Kwiatkowski, Wolfgang: *See—*
Wick, Richard; Kwiatkowski, Wolfgang; and Schausberger, Helmut,3,430,945.
Kwik, John H., Jr., to United States of America, Army. Paper folding machine. 3,466,027, 9-9-69, Cl. 270-79.
Kwikform Limited: *See—*
Francis, Leslie Walter; and Gostling, Peter Eric, 3,420,557.
Gostling, Peter Eric, 3,438,160.
Kwikseal: *See—*
Stewart, George W., 3,454,741.
Kwizda, F. Joh.: *See—*
Koch, Heinrich P., 3,475,535.
Kwoh, Emily T. Y. Reversible multiple cooking oven, steamer, grill and griddle. 3,457,852, 7-29-69, Cl. 99-340.
Kwok, Clyde Chi Kai, to Aviation Electric Limited. Vortex vent fluid diode. 3,461,897, 8-19-69, Cl. 137-81.5
Kwolek, Stanley J.: *See—*
Goldthwait, Richard G.; and Kwolek, Stanley J.,3,437,589.
Kyber, Manfred: *See—*
Hofmann, Hansdieter; Corsepius, Horst; and Kyber, Manfred,3,485,820.
Kydd, Paul H., to General Electric Company. Liquid cooled turbine rotor. 3,446,481, 5-27-69, Cl. 253-39.15
Kydd, Paul H., to General Electric Company. Liquid cooled turbine rotor. 3,446,482, 5-27-69, Cl. 253-39.15
Kydd, Paul H., to General Electric Company. Production of perforated metallic bodies. 3,457,619, 7-29-69, Cl. 29-156.8
Kyle, James C., to Physical Sciences Corporation. Temperature compensated transducer. 3,453,573, 7-1-69, Cl. 336-30.
Kyle, Joseph H.: *See—*
Hisey, Richard M.; and Kyle, Joseph H.,3,471,682.
Kyle, Joseph L.: *See—*
Sumyk, George B.; Kyle, Joseph L.; and Hawrylewicz, Ervin J.,3,451,996.
Kyle, Leslie B. Culture belt for a hydroponic system. 3,425,158, 2-4-69, Cl. 47-1.2
Kyle, Robert Carlton: *See—*
Swanson, Emery Carlton; Henderson, Robert John; and Kyle, Robert Carlton,3,487,064.
Kyle, William K., to Westinghouse Electric Corporation. Defrost controls for heat pumps. 3,466,888, 9-16-69, Cl. 62-156.
Kyle, William K.; and Jensen, Erik H., to Westinghouse Electric Corporation. Heat pumps with electric booster heaters. 3,444,923, 5-20-69, Cl. 165-29.
Kylin, Henrik O., to Bordons & Oliver, Inc. Tool slide control for lathes, cutoff machines and the like. 3,448,643, 6-10-69, Cl. 82-21.
Kyoeikogyo Kabushikikaisha: *See—*
Tazaki, Michiharu, 3,450,453.
Kyowa Chemicals Kabushiki Kaisha: *See—*
Nomura, Tatsuo; Shimomura, Kunio; and Miyaji, Masayuki, 3,481,836.
Kyowa Hakko Kogyo Co., Ltd.: *See—*
Fujimoto, Yasuo; and Teransi, Masayuki, 3,437,661.
Fujimoto, Yasuo, 3,451,997.
Kawamori, Yoshiaki; Matsuura, Masahiko; Saito, Takeshi; and Miyamura, Yoshinobu, 3,458,401.
Kinoshita, Shukuo; and Mukai, Noboru, 3,436,206.
Kudo, Shiro; Mihara, Yoshihisa; and Yada, Seiichi, 3,449,435.
Kudo, Shiro; Shimomura, Kunio; and Bamoto, Takeshi, 3,474,137.
Kudo, Shiro; Mihara, Yoshihisa; Adachi, Taiichi; Tsurugi, Shinichi; Usuku, Tomoatsu; and Wada, Isamu, 3,476,796.
Matsui, Masanao; Uzo, Keizo; Yamada Yasuhiro; and Wakaki, Shigetoshi, 3,420,846.
Matsui, Masanao; Uzu, Keizo; Yamada, Yasuhiro; and Wakaki, Shigetoshi, 3,444,182.
Matsui, Masanao; Yamada, Yasuhiro; Hirata, Tadashi; and Wakaki, Shigetoshi, 3,450,705.
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,444,040.
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,458,398.
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru, 3,420,744.
Noguchi, Yuichi; Uno, Tetsuo; Kubota, Yoshita; and Hosoda, Hiroshi, 3,436,308.
Samejima, Hirotoshi; Nagano, Yuji; and Ohta, Shigenori, 3,450,712.
Samejima, Horotoshi; Teranishi, Hiroshi; and Deguchi, Takashi, 3,435,026.
Saruno, Rinjiro; and Ishida, Kengo, 3,481,748.
Shiga, Akio, 3,420,677.
Shiga, Akio, 3,420,678.
Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, 3,450,599.
Tanaka, Katsunobu; Kimura, Kazuo; Inuzuka, Keiichi; and Tokoro, Yoh, 3,486,980.
Tanaka, Masao; and Nakamura, Nobuo, 3,445,336.
Tanaka, Masao, 3,474,002.
Kyowa Hakko Kogyo Co., Ltd. (Kyowa Hakko Kogyo Kabushiki Kaisha): *See—*
Tanaka, Masao; Nakamura, Nobuo; and Takasawa, Seigo, 3,461,113.

Kyowa Hakko Kogyo Kabushiki Kaisha: *See—*
Kudo, Shiro; and Tsurugi, Shinichi, 3,442,772.
Tanaka, Msao; Nakamura, Nobuo; and Takasawa, Seigo, 3,462,415.
Kyowa Hako Kogyo Co., Ltd.: *See—*
Shiga, Akio; Furukawa, Hideyuki; and Kanemitsu, Haio, 3,474,083.
Kyowa Yuka Co., Ltd.::*See—*
Ozeki, Toshitsugu; and Kusaka, Masakatsu, 3,474,130.
Kyr, Ladislav; Volenik, Jiri; and Raba, Frantisek, to Skoda, oborovy podnik. Control circuit for multiphase rectifiers by sensing of thyristors's control electrode voltage. 3,478,257, 11-11-69, Cl. 321-11.
Kyriakakis, Basil M.: *See—*
Solodar, Warren E.; and Kyriakakis, Basil M.,3,478,064.
Weinberger, Lester; and Kyriakakis, Basil M.,3,448,030.
Kysor Industrial Corporation: *See—*
Pioch, Robert J., 3,442,404.
Pioch, Robert J., 3,462,033.
Roane, Asa E., 3,421,576.
Kyte, Derek J. Screened photo reproduction. 3,436,472, 4-1-69, Cl. 178-6.
Kyte, Derek J. Photographic reproduction employing both sharp and unsharp masking. 3,450,830, 6-17-69, Cl. 178-5.2
Kyte, Derek John. Photo reproduction size variation. 3,422,216, 1-14-69, Cl. 178-5.2
L & A Products, Inc.: *See—*
Techler, Thomas W.; and Thompson, Richard G., 3,467,022.
La-Z-Boy Chair Company: *See—*
Biagi, Angelo A., 3,484,132.
White, David B.; and Ruble, Harold P., 3,484,133.
Laa, Friedrich, to U.S. Philips Corporation, mesne. Recording and/or play-back apparatus employing a record carrier in tape form. 3,439,919, 4-22-69, Cl. 274-4.
Laakaniemi, Richard N.: *See—*
Kuczkowski, Frank A.; and Laakaniemi, Richard N.,3,469,592.
Laakmann, Peter: *See—*
McLendon, James R.; and Laakmann, Peter,3,463,941.
Laakso, Oliver A., to Aktiebolaget Kamyr. Cellulose digester with washing apparatus. 3,475,271, 10-28-69, Cl. 162-242.
Laakso, Oliver Armas, to Aktiebolaget Kamyr. Two stage chemical digestion within a single vessel with wash between stages. 3,425,898, 2-4-69, Cl. 162-19.
Laakso, Oliver Armas, to Aktiebolaget Kamyr. Method for continuous cellulose digestion utilizing two temperature zones. 3,445,328, 5-20-69, Cl. 162-19.
Laakso, William, to Federal Pacific Electric Company. Circuit interrupters. 3,480,899, 11-25-69, Cl. 337-6.
Laama, Vello: *See—*
Waller, Frederick S.; and Laama, Vello,3,487,200.
Laas, Robert F., to Imagineering Unlimited, Inc. Fluid dispenser. 3,482,739, 12-9-69, Cl. 222-182.
Lab-line Biomedical Products, Inc.: *See—*
Good, Dorothy I.; and Morgan, Rose M., 3,480,504.
Lab-O-Matic Corp.: *See—*
Bettcher, Louis A., 3,434,519.
Labana, Santokh S., to Xerox Corporation. Electrophoretic imaging process using photosensitive xanthenonium salts. 3,432,415, 3-11-69, Cl. 204-181.
Labana, Santokh S.: *See—*
Solodar, Warren E.; and Labana, Santokh S.,3,482,970.
Tulagin, Vsevolod; and Labana, Santokh S.,3,474,020.
Tulagin, Vsevolod; and Labana, Santokh S.,3,485,633.
La Barbera, Mannie. Unitary molded resilient plastic cap. 3,450,299, 6-17-69, Cl. 220-42.
La Barge, Robert L., to Aluminum Company of America. Transition joint-forming devices and joint structures incorporating the same. 3,421,276, 1-14-69, Cl. 52-287.
La Barge, Robert L., to Aluminum Company of America. Protective closure for battery terminal. 3,473,965, 10-21-69, Cl. 136-169.
La Barge, Robert L., to Aluminum Company of America. Method of sealing a container assembly and sealed container assembly. 3,479,790, 11-25-69, Cl. 53-42.
La Barge, Robert L.; and Riesen, Walter C., Jr., to Aluminum Company of America. Container closure having attached pull tab. 3,441,163, 4-29-69, Cl. 215-46.
La Barge, Robert L.: *See—*
Leftault, Charles J., Jr.; and La Barge, Robert L.,3,473,967.
LaBarre, Lawrence, to Prahm, Louis. Method and apparatus for winding resistors. 3,427,713, 2-18-69, Cl. 29-618.
Labarre, Maurice, to Generale Alimentaire S.A. Closure spout having tear-out portion. 3,459,315, 8-5-69, Cl. 215-42.
Labartino, Charles; and Descovich, Joseph. Brake shoe wear indicator. 3,456,236, 7-15-69, Cl. 340-52.
Labat, Pierre, to Societe Anonyme dc Vehicules Industriels et d'Equipements Mecaniques Saviem. Gear selector and control device for transmission mechanisms. 3,431,791, 3-11-69, Cl. 74-473.
Labat, Pierre, to Societe Anonyme de Vehicules Industriels et d'Equipements Mecaniques Saviem. Power-assisted change-speed devices. 3,470,759, 10-7-69, Cl. 74-473.
La Bate, Michael Donald. Hot top for ingot molds. 3,447,772, 6-3-69, Cl. 249-197.
LaBate, Michael E., to Insul Company Incorporated. Bottle top cap for ingot molds. 3,477,683, 11-11-69, Cl. 249-134.
Labatt, John, Limited: *See—*
Murray, Edward D.; and Kendall, Maureen S., 3,482,997.
Spershott, Walter E.; Foster, Joseph S.; Thom, David; and Gosling, Dickinson, 3,483,962.
Labbatt, John, Limited: *See—*
Letch, Harry George; and Powell, Leonard Cyril, 3,433,966.
Labbe, Albert: *See—*
Boyenval, Bernard; and Labbe, Albert,3,448,494.
Label-Matic, Inc.: *See—*
Kaplan, Irving, 3,420,172.
Labelle, Harold E., Jr., to Tyco Laboratories, Inc. Growth of inorganic filaments. 3,471,266, 10-7-69, Cl. 23-301.
La Belle, Laurence T., to Miner, W. H., Inc. Hand brake mechanism. 3,453,902, 7-8-69, Cl. 74-505.
Labet, Jacques: *See—*
Brebant, Charles; Labet, Jacques; and Mosse, Pierre,3,485,548.
Labino, Dominick. Method of manufacturing glass paperweights. 3,463,624, 8-26-69, Cl. 65-71.
La Bissoniere, Robert L., to Alpana Aluminum Products, Inc. Insulated metal frame and sliding closure. 3,462,884, 8-26-69, Cl. 49-404.
La Boda, Mitchell A., to General Motors Corporation. Electrochemical machining using a film forming electrolyte including amine alcohols. 3,421,987, 1-14-69, Cl. 204-143.
La Boda, Mitchell A., to General Motors Corporation. Electrochemical machining ferrous metals using a film forming electrolyte including fluoride salts. 3,429,791, 2-25-69, Cl. 204-143.
La Bombard, Leon E., deceased (by La Bombard, Mary I., and Indian Head National Bank, co-executors); and Labombarde, Raymond A. Apparatus for applying tape. 3,421,963, 1-14-69, Cl. 156-355.
Labombarde, Raymond A.: *See—*
La Bombard, Leon E.; and Labombarde, Raymond A.,3,421,963.
Laboratoire Central des Industries Electriques: *See—*
Buchy, Francois Ch.; and Bauduin, Philippe G., 3,487,220.
Laboratoire Suisse de Recherches Horlogeres: *See—*
Jaccard, Leon, 3,450,866.
Laboratoires Albert Rolland: *See—*
Thuillier, Yvonne, 3,459,855.
Laboratoires Andre Guerbet: *See—*
Tilly, Guy, 3,452,134.
Laboratoires Auclair: *See—*
Ber, Esther; Nau, Pierre F. G.; and Dvolaitzky, Frajda, 3,472,868.
Laboratoires d'Electronique et de Physique Appliques L.E.P.:*See—*
Guillaume, Andre Eugene, 3,450,921.
Laboratoires Jacques Logeais, Societe Anonyme: *See—*
Maillard, Jacques Georges Albert Eugene; and Vincent, Michel Marius Jean, 3,441,650.
Molimard, Robert, 3,452,716.
Laboratoires Labaz: *See—*
Binon, Fernand; Ziegler, Herbert; and Inion, Henri, 3,470,192.
Laboratoires Laroche Navarron: *See—*
Perrault, Marcel, 3,426,131.
Laboratoires Om Societe Anonyme: *See—*
Esteve-Subirana, Antonio, 3,436,462.
Laboratoires Toraude: *See—*
Delarue, Jean-Louis Auguste; and Fallard, Rene Louis, 3,461,211.
Laboratoires U.P.S.A.: *See—*
Hoffmann, Charles; and Faure, Andre, 3,466,373.
Laboratoires Vifor S.A.: *See—*
Grosclaude, Rene; and Andrey, Pierre, 3,482,572.
Laboratories Om Societe Anonyme: *See—*
Pares Corominas, Juan, 3,484,444.
Laboratory Equipment Corporation: *See—*
Schmitt, Howard J.; and Rohn, William C., 3,464,795.
Schultz, Frederick C.; McFaul, Gordon P.; and Lim, Franklin, 3,421,982.
Schultz, Frederick C., 3,427,863.
Laboratory for Electronics, Inc.: *See—*
Beaudry, Harvey J.; and Bersin, Richard L., 3,485,657.
Beaudry, Harvey James, 3,436,333.
Brinkerhoff, Joris M.; and Burton, Robert G., 3,486,025.
Brockett, Peter C., 3,464,059.
Davies-White, William A., 3,440,829.
Fuller, Harrison W., 3,438,010.
Hollahan, John R., 3,428,548.
Karp, William, 3,428,281.
Rothstein, Jerome, 3,473,145.
Zilberstein, Raoul Michel, 3,436,688.

Laboratory Furniture Company, Inc.: *See—*
Elmore, Rush H., 3,440,022.
Laborde, Emile; and Zilberman, Jean, to CIT-Compagnie Industrielle des Telecommunications. Dissoluble wall structure. 3,451,913, 6-24-69, Cl. 204-248.
Labore, Walter T.; and Fuog, Jack C., to Pitney-Bowes, Inc. Scale chart. 3,468,388, 9-23-69, Cl. 177-37.
Laborit, Henri Marie, to Seperic. Pyridazone derivatives. 3,441,565, 4-29-69, Cl. 260-247.2
LaBrage, Louis P., to Teletek, Inc. Coin annunciator for telephone pay stations. 3,423,533, 1-21-69, Cl. 179-6.5
La Branche, Harvey W.; and Newman, Howard F., to Mattel, Inc. Undercarriage for toy vehicles. 3,483,654, 12-16-69, Cl. 46-201.
La Branche, Harvey W.; and Newman, Howard F., to Mattel, Inc. Undercarriage for toy vehicles. 3,484,986, 12-23-69, Cl. 46-201.
Labrecque, Jean P., to United Aircraft Corporation. Shimmy damper. 3,430,896, 3-4-69, Cl. 244-103.
La Brecque, Raymond E.: *See—*
MacNairn, John S.; La Brecque, Raymond E.; and Nehra, Samuel A.,3,481,772.
LaBrie, Paul J.: *See—*
Shapiro, Laban D.; Latham, Peter A.; Brefka, Paul E.; and LaBrie, Paul J.,3,479,568.
La Brot, Adrian G.: *See—*
Wilkaitis, Norman J.; and La Brot, Adrian G.,3,479,983.
Labruyere, Robert Maximilien, to UCB (Union Chimique-Chemische Bedrijven) S.A. Process of tightening glass panes. 3,438,112, 4-15-69, Cl. 29-401.
Lacal Industries Limited: *See—*
Crosby, Noble W.; Clarke, Gordon J.; and Walker, Robert C., 3,454,705.
Crosby, Noble W.; Walker, Robert C.; and Clarke, Gordon J., 3,474,184.
Short, Herbert Douglass, 3,420,943.
Lacan, Guy H.; and Contal, Maurice G., to La Telemecanique Electrique. Electromagnetically operated mechanisms, particularly contactors. 3,457,532, 7-22-69, Cl. 335-189.
Lacan, Philippe: *See—*
Fauche, Paul Charles; and Lacan, Philippe,3,428,530.
LaCas, George A., to Morris, Philip, Incorporated. Method of making narrow ribbon blades. 3,468,195, 9-23-69, Cl. 76-104.
Lacey, Charles H.: *See—*
Collins, George C.; and Lacey, Charles H.,3,456,140.
Lacey, Joseph C., III; and McEowen, James R., to Bell Telephone Laboratories, Incorporated. Key telephone system signaling circuit. 3,453,396, 7-1-69, Cl. 179-99.
Lachance, Armand A. Safety device for automatic grocery carts. 3,476,216, 11-4-69, Cl. 186-1.
Lachance, Armand A.; and Howard, Joseph M., said Howard assor to said Lachance. Automatic grocery cart. 3,430,732, 3-4-69, Cl. 186-1.
Lachance, Armand A.; and Howard, Joseph M. Automatic grocery cart. 3,454,139, 7-8-69, Cl. 186-1.
Lachance, Gaston. Socket wrench with lever operated pawl means and a thrust block for said pawl means. 3,447,404, 6-3-69, Cl. 81-54.
Lachapelle, David G.: *See—*
Tarbox, James L.; and Lachapelle, David G.,3,452,690.
Lachapelle, Raymond L., to Tizon Chemical Corporation. Composition for polishing crystalline silicon and germanium and process. 3,429,080, 2-25-69, Cl. 51-309.
Lachat, Remy J.: *See—*
Smith, Charles W.; and Lachat, Remy J.,3,471,886.
La Chiusa, Arturo A.: *See—*
Levin, Robert S.; and La Chiusa, Arturo A.,3,474,691.
La Chiusa, Arturo Alfred, to Auto-Safe Research and Development Corporation. Foot-operated control for motor driven vehicles. 3,436,981, 4-8-69, Cl. 74-478.5
Lachman, Arthur G.: *See—*
Janigian, Kenneth E.; and Lachman, Arthur G.,3,447,720.
Lachman, Irwin M., to Corning Glass Works. High density alumina and method for producing it. 3,459,564, 8-5-69, Cl. 106-39.
Lachman, Leon: *See—*
De Luca, Patrick Philip; and Lachman, Leon,3,429,967.
Hotko, Edward Alexander; and Lachman, Leon,3,456,049.
Lachman, Leon; and Rehm, Carl Richard, to Ciba Corporation. Injectable solution containing 6-chloro- or 6- trifluoromethyl-7-sulfamyl-1,2,4-benzothiadiazinc- 1,1-dioxide diuretic. 3,443,004, 5-6-69, Cl. 424-228.
Sheth, Pravin; and Lachman, Leon,3,421,920.
Lachman, Stanislav: *See—*
Kapr, Jiri; and Lachman, Stanislav,3,486,256.
Lachmann, Peter F. J., to Henderson Clay Products, Inc. Apparatus for applying fluid materials. 3,422,793, 1-21-69, Cl. 118-301.
Lachmann, Victor Gustav: *See—*
Blythe, Alan Avery; and Lachmann, Victor Gustav,3,429,023.
Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L., to Texaco Inc. Process for producing carboxylic acids and nitrogen containing intermediates from olefins. 3,458,582, 7-29-69, Cl. 260-610.
Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L., to Texaco Inc. Method for producing alkanedioic acid and nitrogen containing intermediates from cycloalkene. 3,466,326, 9-9-69, Cl. 260-537.
Lachut, Frank J.: *See—*
Marzocchi, Alfred; and Lachut, Frank J.,3,473,595.
Lackey, Donald R.: *See—*
Corteggiano, William L.; and Lackey, Donald R.,3,460,815.
Lackey, Gerald F.: *See—*
Johnson, James E.; Priest, Clifford G.; Lackey, Gerald F.; and Swonger, Kenneth D.,3,472,455.
Lackner, Peter, to Telefunken Patentverwertungsgesellschaft m.b.H. High impedance printed conductor circuit suitable for high frequencies. 3,471,812, 10-7-69, Cl. 333-84.
Laclede Gas Company: *See—*
McMullin, Edward Vincent; and Hofer, John Gerald, 3,477,833.
Laclede Steel Company: *See—*
Weber, Adolph C., 3,430,406.
Lacoe, Ralph D., Jr. Slide editor and storage apparatus. 3,456,825, 7-22-69, Cl. 214-301.
Lacoe, Ralph D., Jr. Title viewer. 3,457,008, 7-22-69, Cl. 353-21.
Lacol Industries Limited: *See—*
Walker, Robert C.; and Clarke, Gordon J., 3,443,019.
Lacombe, Henry Marie Andre Rene, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Adjustable plug type jet propulsion nozzle. 3,424,384, 1-28-69, Cl. 239-265.39
Lacombe, Henry Marie Andre Rene: *See—*
Hardy, Jean Marie; and Lacombe, Henry Marie Andre Rene,3,432,100.
Laconia Metal Products, Inc.: *See—*
Brisse, William C.; and Vincent, Rene C., 3,422,211.
La Costa, Nicholas J.: *See—*
Hebert, John R.; La Costa, Nicholas J.; and Schnepfe, Robert W., Jr.,3,437,245.
La Coste and Romberg, Inc.: *See—*
LaCoste, Lucien J.B.; Clarkson, Henry N.; and Hamilton, George V., 3,474,672.
LaCoste, Lucien J.B.; Clarkson, Henry N.; and Hamilton, George V., to La Coste and Romberg, Inc. Stabilized platform for gravimeter. 3,474,672, 10-28-69, Cl. 73-382.
LaCroce, Leonard Thomas, to American Can Company. Dispensing can with plastic top. 3,486,665, 12-30-69, Cl. 222-480.
La Croce, Leonard Thomas; and Batchelar, Raymond Luscombe, to American Can Company. Easy-opening can. 3,430,802, 3-4-69, Cl. 220-54.
Lacroix, Armand Jean Baptiste: *See—*
Bauger, Louis Jules; and Lacroix, Armand Jean Baptiste,3,477,230.
Lacroix, Armand Jean-Baptiste: *See—*
Caruel, Jacques Emile Jules; and Lacroix, Armand Jean-Baptiste,3,447,318.
La Croix, Francis A. Device for carrying and supporting pets in motor vehicles. 3,465,930, 9-9-69, Cl. 224-42.42
LaCroix, Henry N., to Foster Wheeler Corporation. Process and apparatus for production of nitric acid. 3,464,788, 9-2-69, Cl. 23-162.
LaCroix, Henry N., to Foster Wheeler Corporation. Phthalic anhydride reactor. 3,480,408, 11-25-69, Cl. 23-288.
Lacroix, Roger; and Magnas, Jean Pierre, to Societe Generale d'Exploitations Industrielles (S.O.G.E.I.). Prestressed concrete pressure vessel. 3,486,978, 12-30-69, Cl. 176-65.
La Culture Sans Terre S.A.: *See—*
Taudiere, Georges Marie Jacques Henry Emile, 3,420,446.
Lacy, George H., to Dow Chemical Company, The. Laminate material and method of making. 3,480,464, 11-25-69, Cl. 117-71.
Lacy, Johnson W., to Concrete Structures, Inc. Method of making a prestressed hollow concrete core slab. 3,475,529, 10-28-69, Cl. 264-228.
Ladd, Frederick F., Jr.; and Marsh, Lynn W., Jr., to Mohawk Data Sciences Corporation, mesne. Distributor circuit. 3,422,359, 1-14-69, Cl. 328-62.
Ladd, Frederick F., Jr.; Marsh, Lynn W., Jr.; and Muschinske, John E., to Mohawk Data Sciences Corporation, mesne. Integrated power driver circuit. 3,435,295, 3-25-69, Cl. 317-33.
Ladd, Frederick F., Jr.: *See—*
Marsh, Lynn W., Jr.; and Ladd, Frederick F., Jr.,3,427,470.
Ladd Research Industries, Inc.: *See—*
Ladd, William Alexander, 3,465,621.
Ladd, William Alexander, to Ladd Research Industries, Inc. Locking tweezers. 3,465,621, 9-9-69, Cl. 81-43.
Ladell, Joshua: *See—*
Spielberg, Nathan; and Ladell, Joshua,3,439,164.
Laden, Max H.; and Shenfeld, Richard, to Swift & Company. Peptizing and viscosity stabilizers for adhesives. 3,429,828, 2-25-69, Cl. 252-353.
Ladenburg, Thalmann & Co.: *See—*
Rice, Edward K., 3,455,074.
Ladenheim, Harry; and Ziv, Martin H., to Air Products and Chemicals, Inc. Antimony tetroxide production. 3,442,607, 5-6-69, Cl. 23-144.

Ladish Co.: *See—*
Werra, Bruno H., 3,481,273.

Ladmirant, Jean Florent Marie Ghislain, to A-B-R Ateliers Belges Reunis S.A. Silo for bulk material. 3,468,438, 9-23-69, Cl. 214-17.

Ladney, Michael, Jr.: *See—*
Best, William J., 3,467,538.

Ladney, Michael, Jr. Flow coating apparatus. 3,459,891, 8-5-69, Cl. 118-63.

LaDue, Augustus W.: *See—*
Fischer, Hellmuth G.; and LaDue, Augustus W.,3,481,726.

La Due, Augustus W.: *See—*
Fischer, Hellmuth Georg; and La Due, Augustus W.,3,460,927.

La Duke, Norman L.; and Proctor, Thomas, to Bunker-Ramo Corporation, The. Time shared automatic machine tool control system. 3,465,298, 9-2-69, Cl. 340-172.5

Ladwig, William A., Jr. Two tractor side-by-side hookup. 3,477,534, 11-11-69, Cl. 180-14.

Lae, Leif Ragnar: *See—*
Flindall, Robert Lacey; and Lae, Leif Ragnar,3,482,056.

Laebe, Max. Device for holding signs, especially traffic signs. 3,473,248, 10-21-69, Cl. 40-145.

Laermer, Lothar, to General Precision Systems Inc. Memory drum and transducer arrangement wherein the transducer is supported by a universal joint and includes means to place it in a shutdown position. 3,453,611, 7-1-69, Cl. 340-174.1

Laevosan-Gesellschaft Chem. Pharm. Industrie Frank &: *See—*
Quietensky, Herbert; and Nitsch, Ernst, 3,471,329.

La Favor, Jack E.; and McGlenn, Donald B. Display device for sportsmen. 3,473,247, 10-21-69, Cl. 40-126.

Lafer, Moveis, Ltda.: *See—*
Lafer, Percival, 3,479,083.

Lafer, Percival, to Lafer, Moveis, Ltda. Convertible wooden furniture. 3,479,083, 11-18-69, Cl. 297-118.

Laffert, Frederick W., Jr., to International Telephone and Telegraph Corporation. Solder pellet with magnetic core. 3,487,271, 12-30-69, Cl. 317-234.

Lafferty, Harold L.: *See—*
Cours, Donald V.; McGee, John K.; and Lafferty, Harold L.,3,462,821.

Lafferty, James M., to General Electric Company. High current vacuum gap devices with slotted electrode vanes. 3,432,713, 3-11-69, Cl. 313-231.

Lafferty, James M., to General Electric Company. Triggerable arc discharge devices and trigger assemblies therefor. 3,465,192, 9-2-69, Cl. 313-174.

Lafferty, James M., to General Electric Company. Vacuum gap devices with metal ionizable species evolving trigger assemblies. 3,465,205, 9-2-69, Cl. 315-330.

Lafferty, John J., to Smith Kline & French Laboratories. Dibenzo[eg] [1,4] oxazocines and dibenzo [eg] [1,4] thiazocines. 3,470,154, 9-30-69, Cl. 260-239.3

Lafferty, John J.; and Zirkle, Charles L., to Smith Kline & French Laboratories. Phenylpiperazinylalkylsulfamides. 3,455,927, 7-15-69, Cl. 260-268.

Lafferty, Laurence E., Jr.: *See—*
Giessler, Donald A.; and Lafferty, Laurence E., Jr.,3,445,023.

Lafferty, William L., Jr.; Child, Edward T.; Estes, John H.; and Vachuda, George W., to Texaco Inc. Dynamic stabilization of a platinum-alumina catalyst in an isomerization reaction. 3,440,301, 4-22-69, Cl. 260-683.68

Laffin, Michel, to Ugine Kuhlmann, Societe Anonyme. Continuous pouring of metals. 3,478,814, 11-18-69, Cl. 164-281.

Lafforgue, Jean-Claude Rene, to Canadian General Electric Company Limited. Door latching mechanism. 3,440,403, 4-22-69, Cl. 219-413.

La Flame, Frank E.; and Mac Farland, Gordon F., to General Motors Corporation. Dishwasher pump assembly. 3,425,355, 2-4-69, Cl. 103-3.

LaFleche, Oakley A.: *See—*
Wonell, Harry; and LaFleche, Oakley A.,3,469,812.

La Fleur, Kermit S.: *See—*
Gagarine, Dmitry M.; Habib, Emile E.; and La Fleur, Kermit S.,3,477,805.

La Fleur, Kermit S., to Deering Milliken Research Corporation. Fabric. 3,421,827, 1-14-69, Cl. 8-14.

Lafon, Jean-Claude; and Richard, Marc, to Centre National de la Recherche Scientifique. Devices for studying or treating acoustic phenomena. 3,458,669, 7-29-69, Cl. 179-107.

Lafon, Louis, to Societe Anonyme dite: Orsymonde, mesne. Compositions for the relief of nephritic colics, hepatic disturbances and disorders of the gall bladder, containing trimethoxybenzene and trimethoxyacetophenone. 3,449,503, 6-10-69, Cl. 424-331.

Lafont, Leo C.; and Kerr, Emory L., to Mullen, John J., Associates, Inc., mesne. Container coupling fittings. 3,449,801, 6-17-69, Cl. 24-81.

Lafont, Pierre Yves Andre; and Menand, Henri Francois, to Rhone-Poulenc S.A. Preparation of phthalic acid esters. 3,461,154, 8-12-69, Cl. 260-475.

La Fontaine, Allyn L. Removable shutter construction with pivotal slats. 3,468,058, 9-23-69, Cl. 49-75.

LaFranca, Peter J. Bag dispenser with lower front retaining wall. 3,422,988, 1-21-69, Cl. 221-58.

Lafuze, David L., to General Electric Company. Cycloconverter power circuits. 3,431,483, 3-4-69, Cl. 321-7.

Lafuze, Dvid L., to General Electric Company. Switching type regulator. 3,423,667, 1-21-69, Cl. 322-28.

Lafyatis, Paul G.; and Rothfleisch, Jack E., to Union Carbide Corporation. Hydrogen generator. 3,458,288, 7-29-69, Cl. 23-282.

Lagana, James S., 12% to Douglas, George R., Jr. Locking means for lamp holder. 3,446,956, 5-27-69, Cl. 240-52.

Lagani, Anthony, Jr., to Esso Research and Engineering Company. Safe space heater utilizing semisolid petroleum fuels. 3,471,243, 10-7-69, Cl. 431-88.

Laganis, Deno, to Schenectady Chemicals, Inc. Phenol formaldehyde containing oil free polyester insulating varnish. 3,479,307, 11-18-69, Cl. 260-20.

Lagarde, Roe Howe, to Bliss, E. W., Company. Method of forming a coupling device. 3,450,810, 6-17-69, Cl. 264-137.

Lagasse, Joseph Louis; Palardy, Jacques; Greenlay, John E.; Guimond, Jean P.; and Toussaint, Marcel, to Northern Electric Company Limited. Cut-off and inserting tool. 3,485,432, 12-23-69, Cl. 227-97.

Lage, Frederick A. Method for loading a shot shell. 3,444,777, 5-20-69, Cl. 86-23.

Lagemann, Erwin. Hydraulic gear pump retarder and roller combination. 3,470,992, 10-7-69, Cl. 193-35.

Lagemann, Klaus, to U.S. Philips Corporation, mesne. Bistable trigger circuit comprising two relatively complementary outputs and two inputs and a clock pulse input. 3,458,825, 7-29-69, Cl. 328-206.

Lager, Samuel E.: *See—*
Daughenbaugh, Raymond S.; Hennessey, Charles A.; Holmes, Francis M.; and Lager, Samuel E.,3,449,747.

Lagercrantz, Bengt Ake; and Nordin, Bengt Anders, to Telefonaktiebolaget L M Ericsson. Waterless electrolyte for electrolytic capacitors. 3,483,130, 12-9-69, Cl. 252-62.2

Lagergren, Richard E., to International Business Machines Corporation. Expanding paper tape take-up spool. 3,442,465, 5-6-69, Cl. 242-72.

Lagerguist, William, to Minnesota Automotive, Inc. Compound master brake cylinder. 3,478,518, 11-18-69, Cl. 60-54.6

Lagerholm, Yngve Lennart: *See—*
Helin, Elis Erik Vilhelm; and Lagerholm, Yngve Lennart,3,428,718.

Lagermasini, Joseph P.; Leunis, Robert R.; Roberts, Glenn H.; and Tiala, Lauri D., to Sylvania Electric Products, Inc. Apparatus for manufacturing articles from a web of material. 3,446,408, 5-27-69, Cl. 225-99.

Lagerstrom, Gunnar, to Atlas Copco Aktiebolag. Method and equipment for making tension anchors. 3,436,923, 4-8-69, Cl. 61-53.52

Lagerstrom, Thomas G.; and Reed, Jerry A., to Susquehanna Corporation, The. Safe and arm ejection system. 3,451,306, 6-24-69, Cl. 89-1.

Lageson, Per Stephen. Cord pull for louvered or slatted shutters or blinds. 3,439,726, 4-22-69, Cl. 160-170.

Lagier, Jean-Claude, to Mefina S.A. Control circuit for adjusting the operation of an alternating current motor including a commutator. 3,463,989, 8-26-69, Cl. 318-332.

Lagier, Jean-Claude, to Mefina S.A. Control system for universal motors. 3,466,521, 9-9-69, Cl. 318-245.

Lagier, Jean-Claude, to Squibb, E. R., & Sons, Inc., mesne. Oscillating electric motor. 3,475,629, 10-28-69, Cl. 310-36.

Lagier, Jean-Claude: *See—*
Moret, Michel A.; Fresard, Marcel; and Lagier, Jean-Claude,3,471,725.

Lagman, Alfred W.; and Culver, Raymond L., to Inventions, Inc. Pivotal frame support for mounting alternately spaced bending rollers in different directions and twisting attachment secured to said support. 3,482,425, 12-9-69, Cl. 72-174.

Lagoe, James A., to Honeywell Inc. Control apparatus. 3,422,397, 1-14-69, Cl. 340-5.

Lagoe, James A.; and Kusaka, Dan H., to Honeywell Inc. Control apparatus. 3,427,554, 2-11-69, Cl. 340-5.

Lagonegro, Paul R., to General Motors Corporation. Transfer pump. 3,440,966, 4-29-69, Cl. 103-37.

La Grassa, Antonio: *See—*
Polk, Edgwin R.; and La Grassa, Antonio,3,466,214.

Lagsdin, Julius Bernard, to American Cyanamid Company. Apparatus for capping a plurality of needles attached to syringes. 3,426,411, 2-11-69, Cl. 29-235.

Laguerre, Leon Ker. Profiled strip slide fastener. 3,426,396, 2-11-69, Cl. 24-201.

Laguilharre, Pierre Robert. Equipment for drying by spray atomization. 3,423,843, 1-28-69, Cl. 34-57.

LaGuilharre, Pierre Robert. Method for regulating concentration in evaporators, in particular in multiple-effect evaporators. 3,469,616, 9-30-69, Cl. 159-47.

Laguinia, Enrique L. Apparatus for producing combustible gas. 3,439,998, 4-22-69, Cl. 431-353.

Laguinia, Enrique L. Gas mantle holder. 3,451,760, 6-24-69, Cl. 431-112.

Laharty, Milo L. Butt hook with choker retainer and choker ferrule. 3,464,093, 9-2-69, Cl. 24-123.
Lahav, Miriam: *See—*
Sela, Michael; Arnon, Ruth; and Lahav, Miriam,3,466,368.
Lahav, Noam, to Yissum Research Development Company. Game board and playing pieces for a game adapted to teach chemistry. 3,423,093, 1-21-69, Cl. 273-135.
La Haye, Paul G., to General Electric Company. Combined gas turbine and waste heat boiler control system. 3,422,800, 1-21-69, Cl. 122-7.
Lahaye, Raymond; and Bonnet, Jean-Loup, to Societe de Prospection Electrique Schlumberger S.A. Density measuring device. 3,455,157, 7-15-69, Cl. 73-151.
La Heij, Gerardus E.; and Waterman, Jacques A., to Shell Oil Company. Process for the preparation of polymer solutions from polymer latices and agglomerated latices therefrom. 3,424,705, 1-28-69, Cl. 260-23.7
La Heij, Gerardus E.; Waterman, Jacques A.; and Smout, Adrianus D., to Shell Oil Company. High impact polystyrene compositions containing alkenyl esters of alpha-branched saturated carboxylic acids. 3,485,895, 12-23-69, Cl. 260-880.
Lahive, John A., Jr.: *See—*
Smyth, Robert R.; Smyth, William B.; and Smyth, Ralston B., 3,478,851.
Lahm, William J.; Wilton, Peter; and Egan, Walter, to Union Carbide Corporation. Thermoplastic wrapping materials having translucent areas and process therefor. 3,423,274, 1-21-69, Cl. 161-6.
Lahnston, Frank C., to Celus Fasteners, Inc. Rivet setting tool. 3,426,572, 2-11-69, Cl. 72-391.
Lahr, Roy J., to International Business Machines Corporation. Vacuum transparency holder and optics. 3,433,564, 3-18-69, Cl. 355-76.
Lahr, Roy J., to International Business Machines Corporation. Lamp arrangement for document scanning and modified lamp. 3,442,582, 5-6-69, Cl. 353-29.
Lahr, Roy J., to Xerox Corporation. Transmission and recording system. 3,484,551, 12-16-69, Cl. 178-30.
Lahr, Roy J.; Evans, Paul F.; and Lees, Harold D., to Xerox Corporation. Solid state storage device. 3,459,946, 8-5-69, Cl. 250-213.
Lahr, Roy J.; Mix, Arthur L., Jr.; and Terwilliger, Herbert W., to International Business Machines Corporation. Portable fluid heater. 3,485,245, 12-23-69, Cl. 128-272.
Lahti, Tauno. Pony soldier seat. 3,484,117, 12-16-69, Cl. 280-12.
Lahti, Uolevi L. Semispherical loudspeaker. 3,435,910, 4-1-69, Cl. 181-31.
Lai, Stanley H.: *See—*
Libermann, Leonard N.; and Lai, Stanley H.,3,460,125.
Lai, Tin Hwai. Multipurpose thermal automatic controller with single thermomotive element. 3,447,115, 5-27-69, Cl. 337-309.
Lai, William, to United Aircraft Corporation. Hybrid flare. 3,439,612, 4-22-69, Cl. 102-37.8
Lai, William. Infrared flare having a shroud for enhancing the radiation thereof. 3,453,958, 7-8-69, Cl. 102-37.8
Lai, William, to United States of America, Air Force. Impingement and composition enhanced infrared flare. 3,485,169, 12-23-69, Cl. 102-37.8
Laico, Andrew J. Cast spreader and breaker. 3,426,752, 2-11-69, Cl. 128-83.
Laidig, Jonathan J., to Laidig Silo Unloaders, Inc. Silo unloader and method of removing material from a silo. 3,451,567, 6-24-69, Cl. 214-17.
Laidig, Manfred R.: *See—*
Jacobsen, Sigurd S.; Bartosz, Frank J.; and Laidig, Manfred R.,3,420,197.
Laidig Silo Unloaders, Inc.: *See—*
Laidig, Jonathan J., 3,451,567.
Laidlaw, Neil Rutherford, to Ferranti, Limited. Radiation sensitive apparatus for reading punched tape. 3,431,426, 3-4-69, Cl. 250-219.
Laig, Leroy C., to Miller Electric Co. Retainer for electric cord connectors. 3,475,716, 10-28-69, Cl. 339-75.
Laigle, Roger E.: *See—*
Palmer, Earl W.; Laigle, Roger E.; and Kabelka, Peter J.,3,421,866.
Laikam, William, Jr. Air pressure actuated cylinder unit. 3,456,561, 7-22-69, Cl. 91-440.
Laimann, Gunther: *See—*
Waschulewski, Hans-Georg; Erdmann, Helmut; and Laimann, Gunther,3,486,427.
Laimins, Eric, to BLH Electronics, Inc. Strain gage transducer structures. 3,439,761, 4-22-69, Cl. 177-211.
Laimins, Eric, to BLH Electronics, Inc. Shear-responsive force transducers. 3,448,424, 6-3-69, Cl. 338-5.
Laimins, Eric, to BLH Electronics, Inc. Compensation for voltage sensitivity of strain gage transducers. 3,470,738, 10-7-69, Cl. 73-88.5
Laimins, Eric, to BLH Electronics, Inc. Strain-gaged treadle scales. 3,474,875, 10-28-69, Cl. 177-134.
Lainas, Telemahos G.; and Gaetz, Roderick R., to Uniroyal, Inc. Separation process. 3,472,379, 10-14-69, Cl. 209-479.
Laine, Donald D.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,700.
Laing, Nikolaus: *See—*
Eck, Bruno; and Laing, Nikolaus,3,437,262.
Laing, Nikolaus. Rotary heat exchangers. 3,424,234, 1-28-69, Cl. 165-89.
Laing, Nikolaus. Air cooled electric motor. 3,437,855, 4-8-69, Cl. 310-62.
Laing, Nikolaus. Magnetic torque transmission device. 3,438,328, 4-15-69, Cl. 103-87.
Laing, Nikolaus. Induction motor having spherical airgap. 3,447,469, 6-3-69, Cl. 103-87.
Laing, Nikolaus. Air-cushion vehicle. 3,460,647, 8-12-69, Cl. 180-120.
Laing, Robert L. Thermionic converter. 3,477,012, 11-4-69, Cl. 322-2.
Laing-Vortex, Inc.: *See—*
Eck, Bruno; and Laing, Nikolaus, 3,437,262.
Lainson, John J. Extrusion apparatus. 3,447,204, 6-3-69, Cl. 18-14.
L'Air Liquide:*See—*
Galey, Jean; and Valin, Gilbert, 3,443,806.
L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude:*See—*
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel, 3,471,257.
Carbonell, Emile, 3,456,453.
Domine, Daniel; and Quobex, Jean, 3,481,699.
Duboz, Georges; and Demars, Paul, 3,470,346.
Grenier, Maurice, 3,485,053.
Ivernel, Alix; and Just, Marcel, 3,453,084.
Karinthi, Pierre Yves; and Spire, Etienne, 3,484,232.
Leygue, Guy; and Auberger, Jacques, 3,469,830.
Petit, Pierre, 3,420,068.
Rerolle, Paul; and Richard, Claude, 3,423,282.
Roth, Etienne; and Lefrancois, Bernard, 3,479,140.
Soulary, Pierre, 3,431,091.
Lair, Philippe C., to Alsthom-Savoisienne. Feed-through bushing for cryogenic transformers. 3,440,326, 4-22-69, Cl. 174-9.
Laird, John D., to International Business Machines Corporation. Heart augmentation system provided with means for measuring intra-arterial pressure. 3,457,909, 7-29-69, Cl. 128-1.
Laird, William B.: *See—*
Townsend, Palmer W.; Laird, William B.; and Halfon, Albert,3,443,389.
Laitram Corporation, The: *See—*
Lapeyre, Fernand S., 3,421,620.
Lapeyre, Fernand S., 3,423,788.
Lapeyre, James M., 3,430,288.
Lajeunesse, Harry J.; Cowpland, Michael C. J.; and Hanna, John L., to Northern Electric Company Limited. Method of controlling the adjustment of frequency determining film resistors in an oscillator. 3,463,723, 8-26-69, Cl. 204-140.
Lajiness, Evelyn J.: *See—*
Braxton, Henry G., Jr.; and Lajiness, Evelyn J.,3,433,621.
Lajiness, Wayne G.: *See—*
Axelrood, Seymour L.; and Lajiness, Wayne G.,3,425,999.
Lajoie, Peter A.; and Harbaugh, Samuel S., to Allegheny Ludlum Steel Corporation. Voltage controlled variable frequency relaxation oscillator. 3,427,562, 2-11-69, Cl. 331-111.
Lakahani, Husain Gulamhusain: *See—*
Hoard, John Roberts; and Lakahani, Husain Gulamhusain,3,484,873.
Lakanen, Robert: *See—*
Nisper, Kenneth J.; and Lakanen, Robert,3,472,521.
Lakatos, Charles I.,: *See—*
Morris, William Whitby, 3,482,807.
Lake & Elliot Limited: *See—*
Rudkin, Frank, 3,464,204.
Lake Calumet Smelting Co.: *See—*
Becker, Hugo, 3,459,606.
Lake, Charles G.: *See—*
Seanor, Rex C.; and Lake, Charles G.,3,448,683.
Lake Chemical Co.: *See—*
Aronberg, Lester, 3,434,890.
Lake, Clarence L.; Barron, Larry R.; and Faud, Robert H., to Tremco Manufacturing Company, The. Polyurethane polyepoxides. 3,445,436, 5-20-69, Cl. 260-75.
Lake, Clarence L.; Box, James A.; and Golla, William J., to Tremco Manufacturing Company, The. Self-adherent, shock absorbing, sealing and spacing strip. 3,427,776, 2-18-69, Cl. 52-403.
Lake, David P.: *See—*
Werth, John J.; and Lake, David P.,3,455,744.
Lake, Edgar R.: *See—*
Drexelius, Victor W.; Lake, Edgar R.; and Schimmel, Morry L.,3,486,410.
Lake Eyelet Manufacturing Co., Inc.: *See—*
Widegren, Walter M., 3,469,928.

Lake Forest College: *See—*
Donnally, Bailey L., 3,424,904.
Donnally, Bailey L., 3,424,905.

Lake, Gerard K.: *See—*
Tomasino, Charles; and Lake, Gerard K.,3,477,902.

Lake, Glen W.: *See—*
Specht, Theodore R.; and Lake, Glen W.,3,422,343.

Lake, Lelyn D.: *See—*
Rigsbee, William E.; and Lake, Lelyn D.,3,453,547.

Lake, Louise, Enterprises, Inc.: *See—*
Lake, Louise; and Mortimer, George H., 3,472,094.

Lake, Louise; and Mortimer, George H., to Lake, Louise, Enterprises, Inc. Hand control for motor vehicles. 3,472,094, 10-14-69, Cl. 74-481.

Lake, Milburn B.; and Harris, William R. Fish bite indicator. 3,453,767, 7-8-69, Cl. 43-17.

Lake Park Tool & Die, Inc.: *See—*
Turner, Walter S., 3,425,728.

Lake, Richard L.: *See—*
Dailey, Jack R.; and Lake, Richard L.,3,465,136.

Lake, Ronald Ernest; and Rees, Donald, to English Electric Valve Company Limited. Krypton-xenon flash tube for pumping a ruby laser. 3,440,559, 4-22-69, Cl. 331-94.5

Lake Shore Markers, Inc.: *See—*
Spiteri, Joseph, 3,446,954.

Lakeman, Thomas Ashley. Floatable self-centering target. 3,430,958, 3-4-69, Cl. 273-105.

Lakeside Engineering Corporation: *See—*
Berk, William L., 3,448,861.

Lakeside Manufacturing, Inc.: *See—*
Moon, Herbert J., 3,424,510.
Moon, Herbert J., 3,462,818.

Lakeside Plastics Corporation: *See—*
Nonweiler, Richard A., 3,457,205.

Lakewood Brick and Tile Company: *See—*
Murray, James R., 3,459,154.

Lakewood Manufacturing Co.: *See—*
Webb, Ernest C., 3,468,537.

Lakin, A., & Sons, Inc.: *See—*
Lakin, Lewis G., 3,443,300.

Lakin, Lewis G., to Lakin, A., & Sons, Inc. Roll construction. 3,443,300, 5-13-69, Cl. 29-125.

Lakin, Willis M., to Marlin Toy Products, Inc. Enclosed ferris wheel toy. 3,471,143, 10-7-69, Cl. 272-31.

Lakshmanan, Tavorath K., to Weston Instruments, Inc. Photoconductive cell having high stability and dark resistance. 3,443,103, 5-6-69, Cl. 250-211.

Lakso Company Incorporated, The: *See—*
Lakso, Eugene E.; and Saari, George W., 3,447,661.

Lakso, Eugene E.; and Saari, George W., to Lakso Company Incorporated, The. Inspection table for tablets and capsules. 3,447,661, 6-3-69, Cl. 198-33.

Lakso, Hugo A., to Bryant Chucking Grinder Co. Method for form dressing a wheel and for grinding spherical surfaces therewith. 3,438,156, 4-15-69, Cl. 51-289.

Lakso, Hugo A.: *See—*
Boyd, Walter A., Jr.; and Lakso, Hugo A.,3,481,319.

Lalak, Joseph J.: *See—*
Milch, Alfred; Lalak, Joseph J.; and Ahlert, Richard H.,3,438,118.

La Lancette, Eugene A., to Du Pont de Nemours, E. I., and Company. 3-Difluoromethylene steroids. 3,450,720, 6-17-69, Cl. 260-397.

La Lancette, Eugene A., to Du Pont de Nemours, E. I., and Company. Bis(perfluoroalkyl)methylene steroids. 3,450,724, 6-17-69, Cl. 260-397.3

Lalande, Jean F.; and Sichel, Alfred, to CIT-Compagnie Industrielle des Telecommunications. Automatic power controls for amplifiers. 3,458,826, 7-29-69, Cl. 330-2.

La Lanne, Jack, to Fitness King, Inc. Weight-lifting device. 3,438,627, 4-15-69, Cl. 272-81.

Laliberte, George A.: *See—*
Frost, Richard H.; Criley, Ronald L.; Laliberte, George A.; and Maschi, Angelo P.,3,425,739.

Laliberte, Real, to American Home Products Corporation. Substituted 4,5,6,7-tetrahydro-Δ^2,α- benzothiazolineacetic acid esters. 3,462,449, 8-19-69, Cl. 260-306.7

Laliberte, Real; and Campbell, David, to American Home Products Corporation. 4-Substituted 1-cyanoacetyl-3-thiosemicarbazides. 3,455,984, 7-15-69, Cl. 260-464.

L'Allemand, Charles C., to Dyson-Kissner Corporation, The. Spindle snugging pirn. 3,467,327, 9-16-69, Cl. 242-46.21

Lallemant, Pierre Joseph Martin, to Societe Hispano-Suiza-Lallemant. Segmented brake disc. 3,452,844, 7-1-69, Cl. 188-218.

Lallemant, Pierre Joseph Martin, to Societe Hispano-Suiza-Lallemant. Disc brakes. 3,480,115, 11-25-69, Cl. 188-72.

Lallement, Gerard: *See—*
Fillod, Rene; Lallement, Gerard; and Oudet, Claude,3,460,396.
Oudet, Claude; and Lallement, Gerard,3,431,808.

Lallet, Jean Paul: *See—*
Pinault, Jacques Gilbert; Lallet, Jean Paul; and Carbonnel, Henri Amedee Basile,3,435,145.

Lally, Gordon John: *See—*
Paddison, Eric; and Lally, Gordon John,3,456,219.

Lally, Joseph E.; Heppner, Earl F.; and Berninger, Harold O., to Bally Manufacturing Corporation. Ball delivery and control means. 3,441,279, 4-29-69, Cl. 273-121.

Lally, Kenneth P.: *See—*
McGuire, John N.; and Lally, Kenneth P.,3,484,607.

Lally, Robert E.; and Cunder, Joseph, to Diamond Shamrock Corporation. Method for producing finely divided water insoluble metallic salts of higher fatty acids. 3,476,786, 11-4-69, Cl. 260-413.

Lalmond, Harold W.: *See—*
Shomphe, George J.; Tabor, Robert W.; and Lalmond, Harold W.,3,423,574.

LaLonde, Carl Henry; and Van Huffel, James Howard, to Youngstown Sheet and Tube Company, The. Attachment devices including extend working means, for apertured structural members. 3,483,910, 12-16-69, Cl. 151-41.75

La Lone, B. H., Company, Inc., The: *See—*
Megowen, William John, 3,447,962.

La Lone, Francis G.; and La Lone, Frank R., to Micro-Electronics International, Inc. Vehicle anti-collision automatic control- system. 3,448,822, 6-10-69, Cl. 180-98.

La Lone, Frank R.: *See—*
La Lone, Francis G.; and La Lone, Frank R.,3,448,822.

Lalor, William F., to Iowa State University Research Foundation, Inc. Method and apparatus for flame cultivating row crops. 3,477,174, 11-11-69, Cl. 47-1.44

L'Aluminium Francais:*See—*
Giraud, Jacques, 3,482,400.
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre, 3,434,325.
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre, 3,486,959.

Lam, Do Mau, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Method of and apparatus for stabilizing a vehicle in slow rotation, along a fixed direction. 3,437,288, 4-8-69, Cl. 244-3.15

Lam, Tat C., to Monsanto Company. Driver circuitry for high speed counters and the like. 3,422,288, 1-14-69, Cl. 307-286.

La Macchia, Salvatore. Quick traverse machine tool accessory apparatus. 3,481,213, 12-2-69, Cl. 74-202.

La Manna, Richard J., to Litton Business Systems, Inc. Mounting for an air bearing magnetic transducer head. 3,475,739, 10-28-69, Cl. 340-174.1

La Mar, William F.; and Pruim, Fred, to Borg-Warner Corporation. Overbed table. 3,481,286, 12-2-69, Cl. 108-144.

Lamarche, Raymond B., to Acton Rubber Limited, The. Overshoe with water deflector. 3,455,036, 7-15-69, Cl. 36-7.3

Lamart, Rene S. Wind instrument training method and means. 3,451,302, 6-24-69, Cl. 84-465.

Lamasney, Michael V., to United States of America, Navy, mesne. Transistor amplifier for photomultiplier tube output. 3,435,357, 3-25-69, Cl. 330-20.

Lamaster, Donald M.: *See—*
Borden, Jay R.; Geis, Everett R.; Lamaster, Donald M.; and Krauthamer, Stanley,3,482,157.

La Masters, George D., to Borg-Warner Corporation. By-pass valve for air injection system. 3,479,816, 11-25-69, Cl. 60-30.

La May, Lawrence E. Process for treating wood and organic mat materials. 3,464,853, 9-2-69, Cl. 117-148.

Lamb, Anthony H. Thermometer for measuring skin temperature. 3,460,389, 8-12-69, Cl. 73-363.7

Lamb, Anthony H. Vehicular safety guard. 3,468,515, 9-23-69, Cl. 256-1.

Lamb, Anthony H. Divers thermometer. 3,478,592, 11-18-69, Cl. 73-363.9

Lamb, Donald J.: *See—*
Morozowich, Walter; and Lamb, Donald J.,3,487,068.

Lamb, Douglas J.; and Long, Hiram S., Jr., to Monsanto Company. Spinnerette wipe tool. 3,436,823, 4-8-69, Cl. 30-169.

Lamb, F. Jos, Co., Inc.: *See—*
Ohrnberger, Peter H., 3,427,015.

Lamb, F. Jos., Company: *See—*
Kidd, Walter L., 3,473,645.

Lamb, Frances W.: *See—*
Griffing, Margaret E.; Lamb, Frances W.; and Stephens, Ruth E.,3,449,063.
Reitmeier, Ronald E.; Hirschler, Daniel A., Jr.; Lamb, Frances W.; and Stephens, Ruth E.,3,428,573.
Stephens, Ruth E.; Hirschler, Daniel A., Jr.; and Lamb, Frances W.,3,433,581.
Stephens, Ruth E.; Hirscler, Daniel A., Jr.; and Lamb, Frances W.,3,447,893.

Lamb, Frank E.: *See—*
Atwood, George E.; Bourne, Douglas J.; and Lamb, Frank E.,3,436,175.

Lamb, Frank G.; and Davidson, Arthur R., to Lamb-Weston, Inc. Fluid bed apparatus for treating food products. 3,477,242, 11-11-69, Cl. 62-283.
Lamb, Fredrick M.: *See—*
Leonard, Daniel C.; and Lamb, Fredrick M.,3,427,892.
Lamb, George E. R.; and Prevorsek, Dusan C., to Allied Chemical Corporation. Method and apparatus for fibrillation of fibers. 3,457,609, 7-29-69, Cl. 28-1.
Lamb, Glentworth, to American Cyanamid Company. Tetrathiodiphosphonothioates as fungicides. 3,448,191, 6-3-69, Cl. 424-204.
Lamb, Glentworth, to American Cyanamid Company. Phthalaldehyde dioximes as microbiocides. 3,448,199, 6-3-69, Cl. 424-327.
Lamb, John H. Safety belt cover. 3,484,908, 12-23-69, Cl. 24-230.
Lamb, John T.; and Anderson, Carl L., to Tappan Company, The. Spark ignition system. 3,480,374, 11-25-69, Cl. 431-66.
Lamb, Kay R.; and Mandeville, Charles R. Quick keg tap with self-sealing connection. 3,464,435, 9-2-69, Cl. 137-212.
Lamb, Marcus J.; De Yarmett, Harry William; and Barr, Clifford L., to Shell Oil Company. Method of removing hydrocarbons from salt caverns. 3,438,203, 4-15-69, Cl. 61-0.5
Lamb, Robert E., to General Electric Company. Composite metal conductor sealed to glass. 3,475,144, 10-28-69, Cl. 29-195.
Lamb, Robert M. Snowmobile bogie wheel. 3,463,561, 8-26-69, Cl. 305-27.
Lamb-Cargate Industries Limited: *See—*
Springate, Norman C., 3,421,560.
Lamb-Grays Harbor Co., Inc.: *See—*
Dale, Ingvald; and Lewis, Charles B., 3,432,161.
Jasper, Ronald J.; and Gustafson, George W., 3,429,097.
Solomonson, Daniel H., 3,442,410.
Lamb-Weston, Inc.: *See—*
Kruger, Herbert W., 3,438,792.
Lamb, Frank G.; and Davidson, Arthur R., 3,477,242.
Lambda Electronics Corporation: *See—*
Greenberg, Sol; and Gautherin, George A., 3,423,665.
Lambden, Richard L.: *See—*
Dieman, Wendell R.; Lambden, Richard L.; and Pickles, Arnold,3,449,105.
Lambdin, Philip E.: *See—*
Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A.,3,462,949.
Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A.,3,485,442.
Lambe, John J.; and Jaklevic, Robert C., to Ford Motor Company. Method of analyzing a substance utilizing a tunneling junction. 3,469,184, 9-23-69, Cl. 324-65.
Lambe, John J.; and Vassell, William C., to Ford Motor Company. Solid state electroluminescent device. 3,445,724, 5-20-69, Cl. 315-246.
Lambelin, Georges: *See—*
Buu-Hoi, Nguyen P.; Lambelin, Georges; Lepoivre, Constan; Gillet, Claude; and Thiriaux, Jacques,3,479,396.
Lamber, Clarence F.; Rodzen, Richard A.; and Barron, Edward R., to United States of America, Army, mesne. Lower leg protective armor. 3,458,863, 8-5-69, Cl. 2-2.5
Lambert, Arthur; Makinson, George Kenneth; and Hill, Arthur, deceased0 (by Hill, Dora Margaret0Hill, Keith Alan; joint administrators), to Imperial Chemical Industries Limited. Process for the production of 1-cyano-1,3- butadiene by dehydrogenation of a 1-cyanobutene. 3,466,318, 9-9-69, Cl. 260-465.9
Lambert, Arthur; and Pemberton, Denis, to Imperial Chemical Industries Limited. Dimerization of acrylonitrile to 1,3-dicyano- butene-3. 3,446,836, 5-27-69, Cl. 260-465.8
Lambert Brake Corporation: *See—*
Kershner, Osborn A., 3,421,320.
Kershner, Osborn A., 3,433,334.
Kramer, Richard M., 3,465,855.
Lambert, Chandley W. Missile with firing cartridge. 3,424,086, 1-28-69, Cl. 102-38.
Lambert, Chandley W. Vacuum clothes dryer with interior drum heater and vertical air ducts. 3,425,136, 2-4-69, Cl. 34-92.
Lambert, Chandley W. Vacuum rug dryer. 3,425,137, 2-4-69, Cl. 34-92.
Lambert, Chandley W. Incurvated fastener. 3,464,310, 9-2-69, Cl. 85-39.
Lambert, George; and Tennett, Anthony Alastair Baxter, to Rolls-Royce, Limited. Aluminising powder. 3,436,249, 4-1-69, Cl. 117-107.2
Lambert, Irma: *See—*
Courvoisier, Pierre; and Lambert, Irma,3,464,789.
Lambert, John B., to Fansteel Metallurgical Corporation, mesne. Processes for producing dispersion-modified alloys. 3,459,546, 8-5-69, Cl. 75-205.
Lambert, John B.; and Looby, John T., to Fansteel Metallurgical Corporation, mesne. Process for producing dispersion-modified alloys of chromium and iron-group metals. 3,425,822, 2-4-69, Cl. 75-0.5
Lambert, John B.; and Marsh, Harold G., to Fansteel Metallurgical Corporation, mesne. Process for making chromium alloys of dispersion-modified iron-group metals, and product. 3,479,180, 11-18-69, Cl. 75-206.
Lambert, June J. Storage rack. 3,429,450, 2-25-69, Cl. 211-60.
Lambert, Keith Trevor; and Prior, Stanley, to Jobling, James A., & Company Limited. Grinding machines. 3,452,483, 7-1-69, Cl. 51-55.
Lambert, Kermit N.; and Peterson, Richard C., to Sprague Electric Company. Electrolytic capacitor and filter network. 3,439,230, 4-15-69, Cl. 317-230.
Lambert, Lucian T.: *See—*
McDaniel, Herman M.; and Koening, Eugene O., 3,426,829.
Lambert, Maurice Dudley, to Pirelli General Cable Works Limited. Manufacture of oil-filled electric cables. 3,455,347, 7-15-69, Cl. 141-65.
Lambert, Milton; Cymmer, Thomas; and Wilder, Ira, to United States of America, Navy. Dual agent fire fighting nozzle and apparatus. 3,448,809, 6-10-69, Cl. 169-15.
Lambert, Paul Henri. False ceiling. 3,426,489, 2-11-69, Cl. 52-39.
Lambert Products, Inc.: *See—*
Thorp, James T., Jr., 3,458,620.
Lambert, Robert R., to Air Factors, Inc. Air diffuser assembly. 3,444,801, 5-20-69, Cl. 98-40.
Lambert, Walter, to Thermo-Electric Co., Inc. Spring-loaded thermocouple. 3,468,723, 9-23-69, Cl. 136-221.
Lambert, Warren G. Shear strain responsive strain guage elements and circuits for utilizing such elements. 3,453,873, 7-8-69, Cl. 73-88.5
Lambert, Werner Pharmaceutical Company: *See—*
Shavel, John, Jr.; and Morrison, Glenn C., 3,438,989.
Lambert, William H., Jr.; and Seger, Richard J., to Bendix Corporation, The. Pulse-radar distance-measuring system. 3,469,261, 9-23-69, Cl. 343-13.
Lamberti, Vincent; and Lemaire, Henry, to Lever Brothers Company. Detergent. 3,427,248, 2-11-69, Cl. 252-117.
Lamberti, Vincent; and Lemaire, Henry, to Lever Brothers Company. Bromination process of salicylanilide. 3,450,756, 6-17-69, Cl. 260-559.
Lamberti, Vincent; and Lemaire, Henry, to Lever Brothers Company. Bromination process. 3,468,949, 9-23-69, Cl. 260-559.
Lamberton, Bruce A., to Construction Techniques, Inc. Fabric forms for concrete structures. 3,425,228, 2-4-69, Cl. 61-38.
Lamberton, Clifford J., to General Electric Company. Tap changing apparatus for inductive windings. 3,474,326, 10-21-69, Cl. 323-43.5
Lambertson, Wingate A.; and Miccioli, Bruno R., to Carborundum Company, The. Method of forming hot pressed refractory carbide bodies having shaped cavities. 3,467,745, 9-16-69, Cl. 264-317.
Lambeth, Ralph Mack, to A.B.C. Popcorn Company, Inc. Filling nozzle. 3,430,671, 3-4-69, Cl. 141-392.
Lambilliotte, Paul P.: *See—*
Marquis, Charles F.; Driay, Pierre G.; and Lambilliotte, Paul P.,3,474,240.
Lambiris, John: *See—*
Hughes, William G.; Weiss, Samuel; and Lambiris, John,3,446,854.
Lambourn, Edward Harry: *See—*
Cattermole, Kenneth William; Barber, Donald Robert; and Lambourn, Edward Harry,3,445,681.
Lamboy, James P.; and McDonald, Robert L., to Sybron Corporation. Method and apparatus controlling sterilizers. 3,454,352, 7-8-69, Cl. 21-56.
Lambrecht, Dietrich: *See—*
Eggemann, Wilhelm; Weghaupt, Erich; and Lambrecht, Dietrich,3,469,127.
Lambrecht, Josef; and Schubert, Hermann, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Converter having a carrying structure open on one side. 3,430,941, 3-4-69, Cl. 266-36.
Lambrecht, Josef; and Stadlmann, Georg, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Scarfing apparatus for upright ingots. 3,427,012, 2-11-69, Cl. 266-23.
Lamburn, Alan Salisbury; and Abbott, Randle Leslie, to Auto Transmissions Limited. Transmission and clutch control. 3,459,285, 8-5-69, Cl. 192-3.5
Lamburn, Alan Salisbury; Abbott, Randle Leslie; Whateley, Eric Albert; and Clark, George Kenneth, to Auto Transmissions Limited. Epicyclic change-speed gearing and controls therefor. 3,472,098, 10-14-69, Cl. 74-761.
Lamby, Edward J.: *See—*
Muhlberger, Robert A.; and Lamby, Edward J.,3,433,768.
La Mers, Herbert. Apparatus for applying thermoplastic adhesive coated labels. 3,450,590, 6-17-69, Cl. 156-540.
La Mers, Herbert, to Larsen, David E., and Gammon, William. Toy gun having a tapered barrel and sponge projectile. 3,472,218, 10-14-69, Cl. 124-15.
La Mers, Herbert; and Greenly, Jack R. Method and means for packaging food products. 3,475,184, 10-28-69, Cl. 99-171.
Lameyre, Felix Gervais: *See—*
Schneider, Charles; and Lameyre, Felix Gervais,3,470,422.

Lamina, Inc.: *See—*
Henkel, Ferdinand J., 3,477,379.
Lamkin, James E., 50% to Lamkin, Marion E. Pre-oiling device for engines. 3,425,404, 2-4-69, Cl. 123-196.
Lamkin, Marion E.: *See—*
Lamkin, James E., 3,425,404.
Lamm, Heinz: *See—*
Bensinger, Wolf-Dieter; Dobler, Helmut; and Lamm, Heinz,3,420,214.
Bensinger, Wolf-Dieter; Lamm, Heinz; and Hohenle, Hubert Zu,3,446,190.
Lammers, Lambertus J. A., to Arlon N.V. Bypass filter with magnetic member. 3,421,627, 1-14-69, Cl. 210-131.
Lammers, Walter. Surge brake system. 3,448,834, 6-10-69, Cl. 188-112.
Lammler, Georg: *See—*
Loewe, Heinz; Urbanietz, Josef; and Lammler, Georg,3,484,524.
Lamon, David E., to Appleton Machine Company. Web supply. 3,486,708, 12-30-69, Cl. 242-58.3
Lamonde, Romeo Leon; and Fiedorowicz, John Joseph, to United Aircraft Corporation. Method of electron beam welding and products thereof. 3,463,901, 8-26-69, Cl. 219-121.
La Monica, Frank, to Rotondo, A., & Sons, Inc. Utility manhole. 3,438,157, 4-15-69, Cl. 52-20.
Lamont, Harold Blair: *See—*
Patry, Harvey L.; Patry, Francis J.; Patry, Ernest; and Lamont, Harold Blair,3,468,285.
Lamont, Lawrence T., Jr., to Varian Associates. Tetrode ion pump. 3,452,923, 7-1-69, Cl. 230-69.
Lamont, Lawrence T., Jr., to Varian Associates. Magnetically confined electrical discharge getter ion vacuum pump having a cathode projection extending into the anode cell. 3,460,745, 8-12-69, Cl. 230-69.
Lamoreaux, Harry F., to General Electric Company. Modified cyclotetrasiloxane polymers. 3,438,936, 4-15-69, Cl. 260-46.5
Lamorlette, Paul, to L'Eclairage des Vehicules sur Rail. Photo-electrical vehicle detecting device for traffic survey. 3,436,540, 4-1-69, Cl. 250-83.3
Lamorte, Michael F.; and Nyul, Paul, to RCA Corporation. Method of making diode arrays. 3,471,923, 10-14-69, Cl. 29-572.
Lamos, Richard C.: *See—*
Vincent, Gerald G; and Lamos, Richard C.,3,447,460.
Lamoureux, Gilbert J., to Western Electric Company, Incorporated. Apparatus for selectively feeding and assembling card components of different types. 3,471,915, 10-14-69, Cl. 29-203.
Lamoureux, William R.: *See—*
Carlock, Frank R.; Kippenhan, B. William; Lamoureux, William R.; and Lazarchick, Nicholas, Jr.,3,435,278.
Lamp, James K., Jr., to Whirlpool Corporation. Apparatus for providing an oxygen containing atomos- phere. 3,445,193, 5-20-69, Cl. 23-281.
Lamp, Richard W.: *See—*
Nellis, Stewart; and Lamp, Richard W.,3,431,348.
Lamparsky, Hans Dietmar; and Marbet, Roman, to Givaudan Corporation. Tetrahydropyrans and -furans. 3,470,209, 9-30-69, Cl. 260-345.8
Lampe, Harry G., to Gulf Oil Corporation. Orifice sealing devices. 3,457,987, 7-29-69, Cl. 165-71.
Lampert, Bernard B., to Aerojet-General Corporation. Nitrocellulose-base propellant containing ethylene cyanohydrin. 3,429,755, 2-25-69, Cl. 149-100.
Lamph, Ara Norman: *See—*
Van Wagenen, Norman L.; and Lamph, Ara Norman,3,420,059.
Lamphere, David A.: *See—*
Philipps, David J.; and Lamphere, David A.,3,478,587.
Lamphere, Jean K.: *See—*
Kriegel, Bernard, 3,487,228.
Lampman, Duncan L.: *See—*
Follis, Dale C.; and Lampman, Duncan L.,3,460,474.
Lamprecht, Adolf K.G.: *See—*
Feldhege, Heinrich, 3,431,566.
Lampson, Sidney Bruce: *See—*
Egan, Richard Raymond; and Lampson, Sidney Bruce,3,433,645.
Lamson & Sessions Co.: *See—*
Beutler, Warren E.; and Javorich, William J., 3,486,179.
Lamson & Sessions Co., The: *See—*
Breed, Arthur R., 3,481,380.
Gatz, Raymond J., 3,481,243.
Gill, Frank L.; Beutler, Warren E.; and Hanna, Edward C., 3,487,298.
Pajak, Henry C., 3,476,290.
Lamson, Junior J.: *See—*
Hall, Richard H.; Lamson, Junior J.; Sikkema, Andrew J.; and Roberts, Carleton W.,3,424,823.
Lamson, Junior L.: *See—*
Hall, Richard H.; Lamson, Junior L.; and Sikkema, Andrew J.,3,426,103.
La Mura, Joseph L., to Joanell Laboratories, Inc. Polypropylene projectile-shorting target with wire screen electrodes. 3,454,277, 7-8-69, Cl. 273-102.2
Lamy, Jacques Edouard, to Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara, 'S.E.G.A.N.S.'. Submarine conduit and method of laying the same. 3,431,740, 3-11-69, Cl. 61-72.4
Lamy, Jacques Edouard, to Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara 'S.E.G.A.N.S.'. Method of laying underwater pipes and equipment for said method. 3,466,881, 9-16-69, Cl. 61-72.3
Lamy, Jacques E.; and Gris, Pierre A., to Societe Anonyme Francaise de Constructions Industrielles d'Isolation Isolfeu, and Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara 'S.E.G.A.N.S.'. Storage tanks for flow temperature liquids, especially for liquefied gases. 3,432,062, 3-11-69, Cl. 220-15.
Lanahan, Arthur L. Pouring spout for dry product containers. 3,428,226, 2-18-69, Cl. 222-569.
Lanaka, Tomoharu; Miyamae, Masao; Takayama, Shinichi; Iio, Katsumi; Komatsubara, Tomomitsu; and Soma, Takeshi, to Osaka Soda Co., Ltd. Process for liquid phase separation of prepolymers or precopolymers of diallyphthalates. 3,424,729, 1-28-69, Cl. 260-78.4
Lanari, Raymond: *See—*
Reed, Claude R.; Elderidge, John W., Jr.; and Lanari, Raymond,3,469,083.
Lanari, Susan M.: *See—*
Reed, Claude R.; Elderidge, John W., Jr.; and Lanari, Raymond,3,469,083.
Lancashire, Frank, to Procter & Gamble Company, The. Soap compositions having improved curd-dispersing properties. 3,454,500, 7-8-69, Cl. 252-110.
Lancaster, Fred E., Jr.: *See—*
Allgood, Hilland Y.; and Lancaster, Fred E., Jr.,3,442,611.
Lancaster Laboratories, Inc.: *See—*
Hess, Earl H.; and Tshudy, Donald R., 3,420,671.
Lancaster, Ronald L.: *See—*
Recio, Orlando; Holloway, Richard A.; Lancaster, Ronald L.; Jones, Dennis J.; and Motley, George R.,3,437,993.
Lancaster, William W., to Philco-Ford Corporation. Oscillator control for improving the strong signal handling capabilities of signal receivers. 3,457,514, 7-22-69, Cl. 325-409.
Lancea Corporation: *See—*
Reagan, Bruce V., Jr.; Notchev, John S.; and Cederwall, Leonard O., 3,430,302.
Lancelot, Yves: *See—*
Nesteroff, Wladimir; Lancelot, Yves; and David, Bernard,3,429,388.
Lancer Machinery Limited: *See—*
Preston, Peter John, 3,436,095.
Lancette, Henry J. Glass frosting device. 3,450,096, 6-17-69, Cl. 118-16.
Lanchantin, Charles E., Jr.: *See—*
Johnson, Lowell E.; Hansen, Robert C.; Pearce, Shairyl I.; and Lanchantin, Charles E., Jr.,3,478,621.
Lancini, Giancarlo; and Lazzari, Ettore, to Lepetit S.p.A. Process for the preparation of 2-nitroimidazoles. 3,420,842, 1-7-69, Cl. 260-309.
Lancini, Giancarlo; and Lazzari, Ettore, to Lepetit S.p.A. Process for the preparation of ring-substituted 2-aminoimidazoles. 3,450,709, 6-17-69, Cl. 260-309.
Lancini, Giancarlo: *See—*
Thiemann, Joseph Ernst; Lancini, Giancarlo; and Nathansohn, Giangiacomo,3,452,005.
Lancor, Joseph H., Jr., to Consolidated Electrodynamics Corporation. Film magazine and receptacle. 3,431,047, 3-4-69, Cl. 352-72.
Lancor, Joseph H., Jr.: *See—*
Brown, Richard P.; and Lancor, Joseph H., Jr.,3,421,675.
Brown, Richard P.; Lancor, Joseph H., Jr.; and Rak, Arthur,3,457,006.
Lanctot, Robert S.; and Scheidler, Frederick E., to United Aircraft Corporation. Flow control transfer mechanism. 3,454,046, 7-8-69, Cl. 137-599.
Lancy Laboratories, Inc.: *See—*
Lancy, Leslie E., 3,431,187.
Lancy, Leslie E., 3,475,219.
Lancy, Leslie E., 3,481,851.
Lancy, Leslie E., to Lancy Laboratories, Inc. Gold recovery. 3,431,187, 3-4-69, Cl. 204-109.
Lancy, Leslie E., to Lancy Laboratories, Inc. Bright treatment for work pieces having toxic carryover. 3,475,219, 10-28-69, Cl. 134-27.
Lancy, Leslie E., to Lancy Laboratories, Inc. Apparatus and procedure for reconditioning metal treating solutions. 3,481,851, 12-2-69, Cl. 204-180.
Land and Marine Rental Company: *See—*
Owens, Dewey E., 3,420,323.
Land, Cecil E.; and Haertling, Gene H., to United States of America, Atomic Energy Commission. Multiremanence ferroelectric ceramic memory element. 3,434,122, 3-18-69, Cl. 340-173.2

Land, Cecil E.; and Schueler, Donald G., to United States of America, Atomic Energy Commission. Emitter-follower oscillator employing ferroelectric ceramic feedback network. 3,432,773, 3-11-69, Cl. 331-116.
Land, David B.: *See—*
Jackim, Eugene H.; and Land, David B.,3,453,291.
Land, Edwin H., to Polaroid Corporation. Diffusion transfer process utilizing heat transfer. 3,427,159, 2-11-69, Cl. 96-29.
Land, Edwin H., to Polaroid Corporation. Novel photographic product and process. 3,451,814, 6-24-69, Cl. 96-29.
Land, Edwin H., to Polaroid Corporation. Photographic color process and apparatus and product useful therein. 3,455,633, 7-15-69, Cl. 355-77.
Land, Edwin H., to Polaroid Corporation. Self-developing camera and process performed therein. 3,460,452, 8-12-69, Cl. 95-13.
Land, Edwin H., to Polaroid Corporation. Stereoscopic range finder including sequentially illuminated reticles. 3,462,222, 8-19-69, Cl. 356-12.
Land, Edwin H., to Polaroid Corporation. Photographic products and processes employing aluminum in the photosensitive element. 3,462,265, 8-19-69, Cl. 96-29.
Land, Edwin H., to Polaroid Corporation. Photographic apparatus with flash exposure control system. 3,478,660, 11-18-69, Cl. 95-11.5
Land, Edwin H., to Polaroid Corporation. Exposure control system. 3,479,936, 11-25-69, Cl. 95-10.
Land, Edwin H., to Polaroid Corporation. Multicolor diffusion transfer process employing a minimum amount of a processing composition. 3,485,628, 12-23-69, Cl. 96-29.
Land, Edwin H.; and Eloranta, Vaito K., to Polaroid Corporation. Camera apparatus. 3,479,942, 11-25-69, Cl. 95-44.
Land, Edwin H.; and Eloranta, Vaito K., to Polaroid Corporation. Processing fluid spreader for photographic apparatus. 3,485,155, 12-23-69, Cl. 95-13.
Land, Edwin H.; and Rogers, Howard G., to Polaroid Corporation. Variable polarized light-filtering apparatus. 3,443,855, 5-13-69, Cl. 350-150.
Land, Edwin H.; and Wolff, Otto E., to Polaroid Corporation. Multilayer film pack. 3,479,184, 11-18-69, Cl. 96-76.
Land, Frederic H., to Bevis Industries, Inc. Peach pitting and quartering machine and the like. 3,444,911, 5-20-69, Cl. 146-28.
Land, John R.; and Moore, Paul A., to Halliburton Company. Methods for effecting continuous subterranean reactions. 3,464,885, 9-2-69, Cl. 162-17.
Land, John R.; and Pittman, Forrest C., to Halliburton Company. Wheel mounting structure. 3,459,354, 8-5-69, Cl. 226-177.
Land Pyrometers Limited: *See—*
Land, Thomas, 3,436,965.
Land, Thomas, to Land Pyrometers Limited. Air-purge units for radiation pyrometers. 3,436,965, 4-8-69, Cl. 73-355.
Landau, James H. Knitted garment. 3,421,513, 1-14-69, Cl. 128-443.
Landauer, Franz: *See—*
Dursch, Walter; Landauer, Franz; Reuter, Martin; and Weckler, Gerhard,3,433,574.
Landauer, Franz; Beermann, Claus; and Horoldt, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of rubber elastic threads of sulfochlorinated polyolefins. 3,470,287, 9-30-69, Cl. 264-183.
Landauer, Rolf W., to International Business Machines Corporation. Electrical shock wave devices and control thereof. 3,435,307, 3-25-69, Cl. 317-235.
Landbouwwerktwigen- en Machinefabriek H. Vissers N.V.: *See—*
Vissers, Herbert, 3,469,324.
Landeborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig. Method and a device for purifying the exhaust gases from motor-driven mining trucks. 3,466,093, 9-9-69, Cl. 298-1.
Landecker, Fred K.: *See—*
Burney, Harold W.; Bissinger, Walter J.; and Landecker, Fred K.,3,423,976.
Landenberger, Eugen. Apparatus for displaying information, particularly for exhibiting advertisements. 3,456,771, 7-22-69, Cl. 194-12.
Landenberger, John L. Means for identifying blanks for folding boxes. 3,435,951, 4-1-69, Cl. 209-122.
Lander, Stanley C., to White Consolidated Industries, Inc. Disconnect for doors. 3,438,147, 4-15-69, Cl. 49-7.
Lander, William M.: *See—*
Davis, George M.; and Lander, William M.,3,467,053.
Landerborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar-Ludvig. Fork truck. 3,454,176, 7-8-69, Cl. 214-768.
Landers, Charles Richard: *See—*
Landers, Harvey Smith; and Landers, Charles Richard,3,447,487.
Landers, David B., to Sugarman, Madeleine. Storage tray for flat articles. 3,481,656, 12-2-69, Cl. 312-18.
Landers, Harvey Smith; and Landers, Charles Richard. Oscillating pellet forming machine. 3,447,487, 6-3-69, Cl. 107-14.
Landers, Harvey S. Hydraulic system for operating a cylinder. 3,434,392, 3-25-69, Cl. 91-414.
Landers, Leolin V.: *See—*
Rife, Howard M.; and Landers, Leolin V.,3,440,060.
Landers, Otis L., to Pneumafil Corporation. Choke elimination in textile cards. 3,444,593, 5-20-69, Cl. 19-107.
Landers, William S., to United States of America, Interior. Process for continuous carbonization of coal. 3,455,789, 7-15-69, Cl. 201-31.
Landes, Benjamin Daniel; Paricio, Ramon, Jr.; and Andrews, Richard E., to Coors Porcelain Company. Liner for grinding mills. 3,462,090, 8-19-69, Cl. 241-299.
Landes, Benjamin D.; and Paricio, Ray, to Coors Porcelain Company. Means for indicating wear of ball mill lining bricks and the like. 3,430,393, 3-4-69, Cl. 52-105.
Landesman, Eric, to Du Kane Corporation. Frame holder and projector therefor. 3,457,009, 7-22-69, Cl. 353-23.
Landgraf, Claus Adolf; and Seeger, Ernst, to Boehringer Ingelheim G.m.b.H. 3-Tertiary amino lower alkyl- pseudoindoles. 3,475,437, 10-28-69, Cl. 260-293.
Landgraf, Helmut; and Vogt, Gerd, to Mannesmann Aktiengesellschaft. Water-cooled plate mold for continuous casting. 3,464,485, 9-2-69, Cl. 164-283.
Landgraf, Richard P.: *See—*
Landgraf, Richard P.; and Landgraf, Robert S., 3,473,058.
Landgraf, Richard P.; and Landgraf, Robert S., to Landgraf, Richard P., and Landgraf, Robert S., in joint-tenancy woth right of survivorship. Self-starting synchronous motor. 3,473,058, 10-14-69, Cl. 310-41.
Landgraf, Robert S.: *See—*
Landgraf, Richard P.; and Landgraf, Robert S., 3,473,058.
Landgraf, Robert S.: *See—*
Landgraf, Richard P.; and Landgraf, Robert S.,3,473,058.
Landgraf, William B., to General Electric Company. Recessed double contact pin base. 3,430,189, 2-25-69, Cl. 339-145.
Landgrebe, George P. Combine. 3,468,112, 9-23-69, Cl. 56-364.
Landgren, Lars Olof Richard. Stereopicture reproduction. 3,476,458, 11-4-69, Cl. 350-138.
Landi, Henry Patrick: *See—*
Voorhies, John Davidson; and Landi, Henry Patrick,3,462,307.
Landis & Gyr, A.G.: *See—*
Ausfeld, Rudolf Arthur, 3,453,522.
Huber, Ernst Rudolf, 3,456,138.
Landis, George G.; and Mosgrove, Walter G., to Lincoln Electric Company, The. Metal ribbon, welding electrodes and method and apparatus for forming same. 3,466,907, 9-16-69, Cl. 72-52.
Landis, Henry Richard. Protective closure for aerosol containers. 3,480,184, 11-25-69, Cl. 222-153.
Landis, James P., to Pillar Corporation. Induction heating assembly. 3,448,233, 6-3-69, Cl. 219-10.61
Landis, Philip S.; and Boswell, Donald E., to Mobil Oil Corporation. Conversion of alkylphenols to benzofurans. 3,420,854, 1-7-69, Cl. 260-346.2
Landis, Phillip S.: *See—*
Hamilton, Lyle A.; and Landis, Phillip S.,3,433,821.
Landis Tool Company: *See—*
Balsiger, Harold E., 3,481,085.
Boller, John A., 3,432,970.
Bricker, Robert E.; and Price, Ralph E., 3,467,074.
Dunn, Elman R., 3,425,169.
Dunn, Elman R.; and Loofboro, Verne L., 3,458,957.
Flohr, William P., Jr., 3,431,681.
Fries, John R.; Price, Ralph E.; and Boller, John A., 3,468,069.
Fries, John R.; and Price, Ralph E., 3,468,070.
Happel, William E., 3,427,760.
Kubsh, Leroy M., 3,426,486.
Price, Ralph E., 3,466,976.
Price, Ralph E.; and Bricker, Robert E., 3,468,066.
Price, Ralph E.; and Gebel, Kurt M., 3,482,361.
Price, Ralph Eldridge, 3,472,525.
Snyder, Glenn M., 3,432,972.
Snyder, Glenn M., 3,447,270.
Landman, Dirk: *See—*
Gropp, Walter E.; and Landman, Dirk,3,436,946.
Landon, Frank L. Process of forming a polystyrene structure within a container. 3,446,882, 5-27-69, Cl. 264-45.
Landon, Joseph E.: *See—*
Walsh, John H.; Hudson, Hugh P.; Botham, John C.; and Landon, Joseph E.,3,462,263.
Landor, Walter: *See—*
Stevens, Peter P., Jr., 3,460,860.
Landow, Harold: *See—*
Eccles, Fred J.; and Landow, Harold,3,432,847.
Landow, Herbert T. Vehicle route tracer. 3,470,370, 9-30-69, Cl. 246-122.
Landram, James F.: *See—*
Wade, Lisby L.; and Landram, James F.,3,475,536.
Landre, John K., to Technical Operations, Incorporated, mesne. Optical scanner. 3,450,455, 6-17-69, Cl. 350-7.
Landron, Rafael, Jr., to Texas Instruments, Incorporated. Packaging process for semiconductor devices and article of manufacture. 3,436,605, 4-1-69, Cl. 317-101.

Landron, Rafael, Jr., to Texas Instruments, Incorporated. Method for making a composite glass-to-metal seal with one transitory metal. 3,464,805, 92-69, Cl. 65-23.
Landrum, Ralph A., Jr., to Pan American Petroleum Corporation. Correlating system. 3,432,649, 3-11-69, Cl. 235-181.
Landrum, Ralph A., Jr., to Pan American Petroleum Corporation. Seismic processing employing discrete pulse deconvolution. 3,437,999, 4-8-69, Cl. 340-15.5
Landrum, Thomas Collum; and Waghorne, Robert Harry, to Esso Research and Engineering Company. Carbonaceous compaction using high temperature fluid coke. 3,427,240, 2-11-69, Cl. 204-294.
Landrum, Thomas Collum; and Waghorne, Robert Harry, to Esso Research and Engineering Company. High temperature fluid coke electrodes. 3,442,787, 5-6-69, Cl. 204-294.
Landry, Robert G., to Diamond Machinery Company. Delivery bin storage system. 3,458,061, 7-29-69, Cl. 214-16.4
Landry, Robert G.; and Jenney, Sherman R., to Diamond Machinery Company. Linear advancing mechanism. 3,465,690, 9-9-69, Cl. 104-162.
Lands, Alonzo M.: *See*—
Aceto, Mario D.; Harris, Louis C.; Lands, Alonzo M.; and Alexander, Ernest John,3,485,873.
Landsem, Perry E. Line reeling control means. 3,478,984, 11-18-69, Cl. 242-154.
Landsman, Emanuel: *See*—
Landsman, Irving; and Landsman, Emanuel,3,428,221.
Landsman, Irving; and Landsman, Emanuel. Insecticidal tapes and methods of using the same. 3,428,221, 2-18-69, Cl. 222-182.
Landucci, Louis; McKay, Donald Roderick; and Sutherland, Charles Alexander. Sulphur pelletization. 3,484,201, 12-16-69, Cl. 23-224.
Landwehr, Gunter: *See*—
Hannemann, Franz; Landwehr, Gunter; Sugland, Wolfgang; and Myska, Gunter,3,443,540.
Landwehr, Gunter; and Myska, Gunter, to Kochs Adlernahmaschinen Werke AG. Top feed roller device for sewing machines. 3,485,193, 12-23-69, Cl. 112-214.
Landwehrkamp, Hans; and Schreyer, Franz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Method and apparatus for strand quality control in rotary spinning chambers. 3,425,205, 2-4-69, Cl. 57-58.89
Landwehrkamp, Hans; and Schreyer, Franz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Spinning chamber rotor. 3,439,487, 4-22-69, Cl. 57-58.89
Landwehrkamp, Hans; and Schreyer, Franz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Apparatus for varying spinning characteristics of a rotary chamber spinning machine. 3,481,128, 12-2-69, Cl. 57-58.89
Landy, Arney, Jr.: *See*—
Bader, William F.; Landy, Arney, Jr.; and Schmitz, Marvin J.,3,434,151.
Lane, Alan B., to Reddi-Bacon, Inc. Food package. 3,469,998, 9-30-69, Cl. 99-171.
Lane, Charles Anthony; and Jones, Alan Thomas, to Waddington & Duval (Holdings) Limited. Taps. 3,460,715, 8-12-69, Cl. 222-90.
Lane, Clyde H., to United States of America, Air Force. Method of making fringing field controlled thin film active device. 3,436,817, 4-8-69, Cl. 29-620.
Lane, Clyde H., to United States of America, Air Force. Preparation of thin cermet films by radio frequency sputtering. 3,481,854, 12-2-69, Cl. 204-192.
Lane Company Inc., The: *See*—
Church, Warren C., 3,476,495.
Lane, Curtis; Glemby, Kenneth; and Greenstein, Leon, to Lanex Importing Company. Machine for dispensing a semi-solid, chilled, edible product. 3,479,835, 11-25-69, Cl. 62-135.
Lane, Curtis; and Glenby, Kenneth, to Lanex Importing Company. Cup-and-spoon assembly. 3,458,107, 7-29-69, Cl. 229-1.5
Lane, Curtis; and Greenstein, Leon, to Lanex Importing Company. Access control for dispensers and the like. 3,469,346, 9-30-69, Cl. 49-35.
Lane, David William John; and Newbold, Geoffrey Tattersall, to Fisons Limited. Substituted quinoxalines as fungicides. 3,453,365, 7-1-69, Cl. 424-250.
Lane, Donald H., to Westinghouse Electric Corporation. Thermoelectric device including tin solder with particles of iron, cobalt or nickel. 3,481,795, 12-2-69, Cl. 136-237.
Lane, Frank B., to United Aircraft Products, Inc. Boat rudder with inserted heat exchanger. 3,452,701, 7-1-69, Cl. 114-162.
Lane, George A.; and Smith, William A., to Dow Chemical Company, The. Smoke producing composition containing lithium perchlorate and a silicon-containing fuel. 3,471,345, 10-7-69, Cl. 149-42.
Lane, George A.; Smith, William A.; and Van Wert, Ralph B., to Dow Chemical Company, The. Boron fuel-salt smoke producing compositions. 3,475,237, 10-28-69, Cl. 149-22.
Lane, George A.: *See*—
Bash, Charles W.; and Lane, George A.,3,432,370.
Lane, George M., to American Meter Company. Gravitational feed inking system. 3,452,359, 6-24-69, Cl. 346-140.
Lane, Gordon R., to Sperry Rand Corporation. Common mode choke for two-dimensional memory array. 3,470,549, 9-30-69, Cl. 340-174.
Lane, James W., to General Electric Company. Method and apparatus for cement kiln control. 3,469,828, 9-30-69, Cl. 263-32.
Lane, John V., to International Telephone and Telegraph Corporation. Zero force connector. 3,475,717, 10-28-69, Cl. 339-75.
Lane, Malcolm S.; and Hawk, Dale A., to Borden, Inc. Pickle packing machine. 3,461,646, 8-19-69, Cl. 53-123.
Lane, Millard J.: *See*—
Sherbinsky, Mark, III; and Lane, Millard J.,3,482,555.
Lane, Norman, to BSR Limited. Cartridge holder for the pick-up arm of a record player. 3,445,118, 5-20-69, Cl. 274-24.
Lane, Norman, to BSR Limited. Tape-playing apparatus. 3,460,733, 8-12-69, Cl. 226-176.
Lane, Norman, to BSR Limited. Tape-playing apparatus. 3,471,071, 10-7-69, Cl. 226-89.
Lane, Oscar L. Omnidirectional circular dipole antenna. 3,448,454, 6-3-69, Cl. 343-742.
Lane, Peter John; and Wheeler, Rodney Edward William, to Associated Electrical Industries Limited. Tone calling arrangements telephone substation circuits. 3,459,899, 8-5-69, Cl. 179-84.
Lane, Richard L.; and Jones, Robert N., to Xerox Corporation. Process of making zerographic plate. 3,451,846, 6-24-69, Cl. 117-201.
Lane, Richard L.: *See*—
Swigert, Jay Kirk; and Lane, Richard L.,3,460,476.
Lane, Robert E., to Dow Chemical Company, The. Fatty acid-diglycidyl ether- alkylenepolyamine compositions. 3,467,684, 9-16-69, Cl. 260-404.5
Lane, Robert G.: *See*—
Gladwyn, Burchell J., 3,482,433.
Lanes, Albert; Rachlis, Robert E.; Roth, Irving; and Stark, Edward W., to Sperry Rand Corporation. Correlation identification apparatus. 3,445,634, 5-20-69, Cl. 235-61.11
Lanes, Jacques P. H. Apparatus for making wine. 3,478,669, 11-18-69, Cl. 99-276.
Lanes, Stanley S.: *See*—
Adam, Lewis; and Lanes, Stanley S.,3,440,094.
Lanewala, Mohammed Ali; Bolton, Anthony P.; and Pickert, Paul E., to Union Carbide Corporation. Treatment of oxidatively regenerated molecular sieve catalysts. 3,450,644, 6-17-69, Cl. 252-416.
Lanex Importing Company: *See*—
Lane, Curtis; and Glenby, Kenneth, 3,458,107.
Lane, Curtis; and Greenstein, Leon, 3,469,346.
Lane, Curtis; Glemby, Kenneth; and Greenstein, Leon, 3,479,835.
Laney, James R., Jr. Radio and/or television log holder. 3,447,252, 6-3-69, Cl. 40-31.
Lanfermann, Willy: *See*—
Droste, Werner; and Lanfermann, Willy,3,482,879.
Lanfermann, Willy, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Coal cutting machine with cutting rollers equipped with tiltable arms. 3,456,984, 7-22-69, Cl. 299-53.
Lanfermann, Willy; and Simonides, Heinz, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Shearer-loader supported against horizontally extending forces. 3,473,846, 10-21-69, Cl. 299-43.
Lang, Charles Leo; and Petit, Albert Louis. Apparatus for extraction by centrifugation of the oil contained in an olive cake. 3,474,955, 10-28-69, Cl. 233-11.
Lang, Charles R., to Ford Motor Company. Engine exhaust valve cam. 3,451,213, 6-24-69, Cl. 60-29.
Lang, David L.: *See*—
Kovacs, Roy F.; Lang, David L.; and Ligon, James T.,3,446,454.
Lang, Douglas C.: *See*—
Moyer, James D.; and Lang, Douglas C.,3,421,344.
Lang, Elliot R.: *See*—
Watkins, John A.; and Lang, Elliot R.,3,441,927.
Lang, Ernest U., to National-Standard Company. Automatic tire bead making apparatus. 3,475,255, 10-28-69, Cl. 156-422.
Lang, Ernest U.; and Hope, William F., to National-Standard Company. Apparatus for continuous extrusion. 3,474,654, 10-28-69, Cl. 72-258.
Lang, George H., Sr.; and Rekolt, Herman, said Rekolt assor. to Rink, George. Water actuated jump rope. 3,481,600, 12-2-69, Cl. 272-74.
Lang, Georg, to Progresswerk Wornlein & Zellhofer. Etui. 3,443,615, 5-13-69, Cl. 150-29.
Lang, Herbert, to Bosch, Robert G.m.b.H. Electronic controller for diesel engine. 3,425,401, 2-4-69, Cl. 123-102.
Lang, Josef Johann. Steerable, self-propelled vibratory rolling machine. 3,431,832, 3-11-69, Cl. 94-50.
Lang, Konrad: *See*—
Klein, Heinz-Gunter; Lang, Konrad; Schmeling, Edith-Luise; and Weissbach, Helmut,3,424,660.
Lang, Lawrence V.: *See*—
Provi, Mike A.; Stinson, George E.; and Lang, Lawrence V.,3,469,645.

Lang, Ludwig G.: *See—*
Roder, Wilhelm; and Lang, Ludwig G.,3,442,170.
Lang, Oscar; and Kientz, Robert B., to Benner-Nawman, Inc. Rotary drive arrangement. 3,485,108, 12-23-69, Cl. 74-217.
Lang, Otto, to Firma Kugelfischer Georg Schafer & Co. Friction disc for friction drives. 3,420,115, 1-7-69, Cl. 74-215.
Lang, Rene. Fabric covered figure toy having pivoting head. 3,462,877, 8-26-69, Cl. 46-159.
Lang, Robert J.: *See—*
Kearby, Kenneth K.; and Lang, Robert J.,3,476,508.
Lang, Ronald: *See—*
Gran, Alfred A.; and Lang, Ronald,3,473,165.
Lang, William C., to McDonnell Douglas Corporation, mesne. Treatment of aluminum. 3,468,766, 9-23-69, Cl. 204-35.
Lang, William D.: *See—*
Kollman, Robert C.; Lang, William D.; and Simone, Dominic,3,472,700.
Langan, Marion J. Electrical indicating and switching systems. 3,470,555, 9-30-69, Cl. 340-286.
Langanke, Helmut F.: *See—*
Geisler, Hans Ferdinand; and Langanke, Helmut F.,3,449,220.
Langbein, Adolf: *See—*
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,462,427.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,466,277.
Merz, Herbert; Shroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,438,990.
Langbein, Gerhard; and Meininger, Fritz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Disazo dyestuffs metal-complex. 3,420,812, 1-7-69, Cl. 260-148.
Langbein, Gerhard; and Meininger, Fritz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble disazo dyestuffs and their complex metal compounds. 3,450,689, 6-17-69, Cl. 260-147.
Langbein-Pfanhauser Werke A.G.: *See—*
Gebauer, Karl; Brugger, Robert; and Heiling, Heinzfelix M., 3,447,953.
Langdon, Arthur J.; to Weck, Edward, & Company, Inc. Intravenous catheter-needle assembly provided with needle bushing guide. 3,454,006, 7-8-69, Cl. 128-214.4
Langdon, Arthur J., to Weck, Edward, & Company, Inc. Peelable transparent envelope for sterile articles. 3,460,742, 8-12-69, Cl. 229-62.
Langdon, Howard H., to Curlator Corporation. Fiber distributing system. 3,435,484, 4-1-69, Cl. 19-65.
Langdon, Jack L.; and Pecoraro, Raymond P., to International Business Machines Corporation. Semiconductor device. 3,429,029, 2-25-69, Cl. 29-589.
Langdon, Jesse D. Hollow stem shut-off valves. 3,470,898, 10-7-69, Cl. 137-218.
Langdon, John E.: *See—*
Schaible, Aaron M.; and Langdon, John E.,3,437,311.
Langdon, William K.; and Korczak, Alexander, to Wyandotte Chemicals Corporation. Process for preparing acrylic esters of trichloropropylene glycol. 3,455,996, 7-15-69, Cl. 260-486.
Langdon, William K.: *See—*
Kokorudz, Michael; Langdon, William K.; and Levis, William W., Jr.,3,459,762.
Lange, Burkhart: *See—*
Berger, Alfred; and Lange, Burkhart,3,427,251.
Lange, Erwin: *See—*
Stumpf, Gunter O.; Lange, Erwin; and Eppinger, Hermann,3,452,671.
Lange, Gerhard. Caster cover. 3,486,185, 12-30-69, Cl. 16-18.
Lange, Gerhard, to Wafios Maschinenfabrik Wagner, Ficker & Schmid. Machine for stretching and testing chain links. 3,486,372, 12-30-69, Cl. 73-103.
Lange, Gerhardt, to Messer Griesheim G.m.b.H. Photoelectric tracing control mechanism employing an electrical function transmitter. 3,446,969, 5-27-69, Cl. 250-202.
Lange, Gotthard: *See—*
Oliva, Klaus; Noack, Christian; and Lange, Gotthard,3,430,505.
Lange, Gunter: *See—*
Weber, Herbert; Lange, Gunter; Muller, Hubert; Von Fellner, Michael; and Heer, Roland,3,435,376.
Lange, Hans, to Deutsche Erdol-Aktiengesellschaft. Process and apparatus for the production of bitumens from underground deposits having vertical burning front. 3,456,730, 7-22-69, Cl. 166-256.
Lange, Hans, to Deutsche Erdol-Aktiengesellschaft. Process for obtaining bitumens from underground deposits. 3,473,610, 10-21-69, Cl. 166-261.
Lange, Henry F.; and Phipps, Harold E., to Universal Moulded Fiber Glass Corp. Filament wound product and method for making the same. 3,436,114, 4-1-69, Cl. 294-74.
Lange, Herbert, to Siemens Aktiengesellschaft. Polishing method for the removal of material from monocrystalline semiconductor bodies. 3,436,286, 4-1-69, Cl. 156-17.
Lange, Herbert, to Soule Steel Company. Door frame assembly and method for making same. 3,469,350, 9-30-69, Cl. 49-504.
Lange, Howard G., to Zenith Radio Corporation. Process of electrostatically screening color cathode-ray tubes. 3,475,169, 10-28-69, Cl. 96-1.
Lange, Karl Heinz. Cameras. 3,447,432, 6-3-69, Cl. 95-11.
Lange, Leonard F. Mounting unit for transforming planter road wheel to field transport wheel. 3,437,353, 4-8-69, Cl. 280-415.
Lange, Robert B. Ski boot. 3,419,974, 1-7-69, Cl. 36-2.5
Lange, Robert B.; Hebron, Roderick; and Jacobs, David. Ski pole. 3,436,090, 4-1-69, Cl. 280-11.37
Lange, Robert G.: *See—*
Heintz, Daniel N.; and Lange, Robert G.,3,445,188.
Lange, Siegfried Karl; Naumann, Gunther Erich; Engler, Rolf Hans; and Nicolai, Hans-Joachim Reinhold, to Veb Metalleichtbaukombinat-Forschungsinstitut. Gas purifying plant. 3,484,800, 12-16-69, Cl. 55-148.
Lange, Walter H.: *See—*
Mayer, William J.; Krause, Douglas P.; Lange, Walter H.; and Moore, Caleb P.,3,471,696.
Lange, Winthrop E. Pharmaceutical composition and method containing 5-methyl-5-(4-pyridyl)-2-oxide-1,3,2-dioxathiane. 3,479,434, 11-18-69, Cl. 424-230.
Langecker, Erhard. Plastic tear-off closure caps for bottles and bottle neck adapted to receive the same. 3,434,613, 3-25-69, Cl. 215-41.
Langecker, Erhard, to Gebr. Battenfeld. Device for the production of hollow bodies of thermoplastic synthetic material in the blast process. 3,452,391, 7-1-69, Cl. 18-5.
Langecker, Gerhard, to Meissner, Josef, Kommanditgesellschaft. Process of producing trioxane. 3,426,040, 2-4-69, Cl. 260-340.
Langecker, Hedwig: *See—*
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois,3,431,263.
Langemann, Albert: *See—*
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf,3,478,065.
Langen, Jacobus Joseph; Langen, Marinus Jacobus Maria; and Topler, Ernest, to American Can Company. Method and machine for forming and sealing a carton. 3,461,642, 8-19-69, Cl. 53-29.
Langen, Marinus Jacobus Maria: *See—*
Langen, Jacobus Joseph; Langen, Marinus Jacobus Maria; and Topler, Ernest,3,461,642.
Langenberger, Helmut; and Kruse, Hans, to Walther-Buromaschinen G.m.b.H. Electric snap key switch assembly. 3,430,012, 2-25-69, Cl. 200-67.
Langenberger, Helmut; and Rohrer, Kurt, to Walther-Buromaschinen GmbH. Pivotal type carrier for line printers for electronic data processing machine. 3,453,953, 7-8-69, Cl. 101-93.
Langendorf Watch Co.: *See—*
Stauber, Ernst, 3,468,010.
Langenheim, Richard H.: *See—*
Horeth, John M.; Howard, William D.; and Langenheim, Richard H.,3,462,761.
Langenhoff, Ferdinand; and Lenz, Arnold, to Dynamit Nobel Aktiengesellschaft. Process for the preparation of dry alkali dichlorisocyanurates. 3,452,012, 6-24-69, Cl. 260-248.
Langer, Alfred C. Fastener means. 3,484,832, 12-16-69, Cl. 292-111.
Langer, Arthur W., Jr., to Esso Research and Engineering Company. Novel copolymers and the process for producing them. 3,450,795, 6-17-69, Cl. 260-878.
Langer, Arthur W., Jr., to Esso Research and Engineering Company. Polymerization catalyst and uses thereof. 3,451,988, 6-24-69, Cl. 260-94.6
Langer, Arthur W., Jr., to Esso Research and Engineering Company. Linear all aromatic compounds and their preparation. 3,458,586, 7-29-69, Cl. 260-668.
Langer, Arthur W., Jr.; and White, Herschel T., to Esso Research and Engineering Company. Process for preparing linear olefins. 3,441,630, 4-29-69, Cl. 260-683.15
Langer, Arthur W., Jr.: *See—*
White, Herschel T.; and Langer, Arthur W., Jr.,3,474,157.
Langer, Gerhard, to United States of America, National Science Foundation, Director of the. Apparatus for acoustically detecting minute particles suspended in a gaseous atmosphere. 3,434,335, 3-25-69, Cl. 73-28.
Langer, Gerhard, to Siemens Aktiengesellschaft. Coupling connection between step-motor and control shaft. 3,443,401, 5-13-69, Cl. 64-27.
Langer, Horst G., to Dow Chemical Company, The. Reducing acid aqueous mediums containing bivalent tin chelates. 3,432,438, 3-11-69, Cl. 252-188.
Langer, Horst G., to Dow Chemical Company, The. Iminodiacetate organotin, antimony, bismuth, titanium and germanium chelates. 3,442,922, 5-6-69, Cl. 260-429.7
Langer, Horst G., to Dow Chemical Company, The. Process for preparing compounds silicon and fluorine. 3,453,079, 7-1-69, Cl. 23-203.
Langer, Horst G., to Dow Chemical Company, The. Synthesis of organometallic halides by redistribution. 3,454,610, 7-8-69, Cl. 260-429.7

Langer, Horst G., to Dow Chemical Company, The. Preparation of anhydrous inorganic metal halides and organic complexes thereof. 3,471,250, 10-7-69, Cl. 23-91.

Langer, Horst G.; and Starkovsky, Nicolas A., to Dow Chemical Company, The. Organotin derivatives of glutarimide-β-acetic acid. 3,435,037, 3-25-69, Cl. 260-270.

Langer, Horst G.: *See—*
Starkovsky, Nicolas A.; and Langer, Horst G.,3,435,007.

Langer, Karl: *See—*
Piecha, Georg; and Langer, Karl,3,470,816.

Langer, Philippe, to Commissariat a l'Energie Atomique. Electric arc device with an photoelectric starting electrode. 3,422,307, 1-14-69, Cl. 315-150.

Langer, Robert M. G.: *See—*
Bodot, Henri M. N. C.; and Langer, Robert M. G.,3,472,603.

Langer, Stanley Harold, to American Cyanamid Company. Electrolytic hydrogenation and recovery of electrical energy. 3,485,728, 12-23-69, Cl. 204-73.

Langer, Stanley Harold; and Haldeman, Robert George, to American Cyanamid Company. Electrolytic hydrogen purification and recovery of same. 3,475,302, 10-28-69, Cl. 204-129.

Langestein & Schemann Aktiengesellschaft: *See—*
Fracke, Karl, 3,429,174.

Langewis, Cornelis; and Smith, Arthur Dean; also known as Smith, Dean A., to Kaiser Aluminum & Chemical Corporation. Control system for container manufacturing device. 3,457,766, 7-29-69, Cl. 72-432.

Langewis, Cornelis: *See—*
Smith, Arthur Dean; and Langewis, Cornelis,3,469,432.

Langford, Thomas S.; and Hubert, Robert L. Track guided model boat. 3,477,391, 11-11-69, Cl. 104-73.

Langguth, Robert P.: *See—*
Haynes, Richard T.; Irani, Riyad R.; and Langguth, Robert P.,3,475,293.

Langheinrich, Klaus: *See—*
Klesper, Herbert; Steinfatt, Fritz; Langheinrich, Klaus; and Lorenz, Walter,3,471,576.

Langheinrich, Wolfgang F.: *See—*
Baranoff, Albert J.; and Langheinrich, Wolfgang F.,3,429,258.

Langis, Andre L., to American Home Products Corporation. 5,5-Disubstituted hydantoins. 3,452,040, 6-24-69, Cl. 260-309.5

Langis, Andre L., to American Home Products Corporation. Derivatives of alanine. 3,456,000, 7-15-69, Cl. 260-518.

Langis, Andre L., to American Home Products Corporation. Phenethylamino-2-propanones. 3,456,011, 7-15-69, Cl. 260-570.8

Langlet, Jean; and Andre, Joseph Gustave Etienne, to Callisto, La Garenne, and Sud-Aviation. Method of forming bellows. 3,442,005, 5-6-69, Cl. 29-454.

Langley, Bernard William: *See—*
Greenshields, James Nairn; Langley, Bernard William; Vickers, Edward Jervis; Walpole, Arthur Leonard; and Williams, Michael Henry Currer,3,424,846.

Langley, Lawrence W.: *See—*
Amos, Lynn G.; and Langley, Lawrence W.,3,469,752.

Langley, Lawrence W., to Corning Glass Works. Bistable fluid amplifier. 3,425,432, 2-4-69, Cl. 137-81.5

Langley, Lawrence W., to Corning Glass Works. Electronic timepiece having light beam adjustment means. 3,485,033, 12-23-69, Cl. 58-23.

Langley, Robert A., to United States of America, Air Force. Instrument for varying the angle of incidence between ion beams and a spectrometer. 3,487,207, 12-30-69, Cl. 250-41.9

Langley, Robert C., to Engelhard Minerals & Chemicals Corporation. Space vehicle. 3,428,473, 2-18-69, Cl. 117-35.

Langley, Robert C., to Engelhard Industries, Inc. Preparation of thin films of the intermetallic compound NiAl. 3,434,879, 3-25-69, Cl. 117-227.

Langley, Robert C., to Engelhard Minerals & Chemicals Corporation. Composite coated heat reflectors and infrared lamp heaters equipped therewith. 3,445,662, 5-20-69, Cl. 250-88.

Langley, Robert C., to Engelhard Industries, Inc. Method of coating substrate with metallic fluoride films. 3,475,192, 10-28-69, Cl. 117-33.3

Langley, Robert C.; and Myers, Herbert, to Engelhard Minerals & Chemicals Corporation. Method for producing hydrogen diffusion cells. 3,428,476, 2-18-69, Cl. 117-62.

Langley, Robert C.: *See—*
Hauel, Anna P.; and Langley, Robert C.,3,434,871.

Langley, Roger D.; and Edlund, Oscar T., to Jet Avion Corporation. Cargo loading and support system. 3,439,790, 4-22-69, Cl. 193-35.

Langley, William J. Deliming, bating or pickling with solution containing dimethylsulfoxide. 3,429,648, 2-25-69, Cl. 8-94.17

Langlitz, Karlheinz: *See—*
Mahringer, Karlheinz; and Langlitz, Karlheinz,3,459,068.

Langlois, Arthur C.; and Ziegenhagen, Paul D., to Consolidated Papers, Inc. Method and apparatus for detecting holes in a moving web. 3,475,956, 11-4-69, Cl. 73-159.

Langlois, Arthur C.: *See—*
Ziegenhagen, Paul D.; Fretz, Harold R.; Langlois, Arthur C.; and Damrau, Wayne A.,3,466,925.

Langlois, Emile G.; and Smith, Norman F., to Western Electric Company, Incorporated. Apparatus for inserting terminals into nests in one or more base members. 3,456,325, 7-22-69, Cl. 29-203.

Langlois, Gordon E.; and Olson, Lloyd J., to Chevron Research Company. Removal of iron contaminants from hydrocarbon oils. 3,459,658, 8-5-69, Cl. 208-252.

Langlois, Gordon E.; and White, Robert J., to Chevron Research Company. Process for stabilizing lubricating oil. 3,463,724, 8-26-69, Cl. 208-98.

Langlois, Gordon E.: *See—*
Kemp, Jacob D.; Langlois, Gordon E.; and Olson, Lloyd J.,3,434,963.

Langlois, Roland E., to Owens-Corning Fiberglas Corporation. Fibrous bodies including strands and methods of producing such bodies. 3,442,751, 5-6-69, Cl. 161-72.

Langmack, Robert M.; Phelps, James W.; and Woodard, Daniel P., to Bell Telephone Laboratories, Incorporated. Submarine cable coupling with impedance matching means. 3,454,707, 7-8-69, Cl. 174-70.

Langmaid, Roger N.: *See—*
Friedman, Harry; Langmaid, Roger N.; and Pickart, Don E.,3,471,415.

Langnau, Kurt; Hennig, Walter; Strehle, Horst; and Schulze, Heinz, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic camera with automatic or manual film speed adjustment. 3,481,259, 12-2-69, Cl. 95-10.

Langner, Alexander; and Sukurs, Raimonds, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for controlling the output of dredging, loading and unloading implements. 3,470,635, 10-7-69, Cl. 37-190.

Langner, Ralph R.: *See—*
Gurgiolo, Arthur E.; and Langner, Ralph R.,3,462,379.
Morgan, George H.; and Langner, Ralph R.,3,483,021.

Langone, James Anthony, to Westinghouse Learning Corporation, mesne. Method of producing action picture media. 3,471,223, 10-7-69, Cl. 352-78.

Langpape, Reinhart: *See—*
Stahl, Kurt; Langpape, Reinhart; and Rasor, Ned S.,3,440,455.

Langpape, Reinhart; and Jester, Alfred, to Aktiengesellschaft Brown, Boveri & Cie. Thermionic energy converter. 3,436,566, 4-1-69, Cl. 310-4.

Langpape, Reinhart; and Jester, Alfred, to Aktiengesellschaft Brown, Boveri & Cie. Thermionic energy converter. 3,453,455, 7-1-69, Cl. 310-4.

Langrish, John; and Perry, Philip David, to Imperial Chemical Industries Limited. Polyurethane foams containing tertiary esters of phosphorous acid. 3,429,837, 2-25-69, Cl. 260-2.5

Langrod, Kasimir; and Jones, Robert L., to North American Rockwell Corporation. Impregnation of graphite with refractory carbides. 3,432,336, 3-11-69, Cl. 117-118.

Langsam, Daniel Foster. Mechanical hamburger cooker. 3,460,461, 8-12-69, Cl. 99-386.

Langsetmo, Peder K.; Ogden, Harry F., Jr.; and Emery, Lewis A., to Strong-Scott Manufacturing Company. Rotary solids processing apparatus and method. 3,425,135, 2-4-69, Cl. 34-8.

Langshur, Herbert Hugh, to United Aircraft of Canada Limited. Trailing edge construction in a radial turbine. 3,424,433, 1-28-69, Cl. 253-39.

Langston, Chandos E., Jr., to United Aircraft Corporation. Jet sound suppressing means. 3,463,402, 8-26-69, Cl. 239-265.13

Langston Company, The: *See—*
Watkins, Harry J., 3,443,489.

Langston, Lottie M. Headwear. 3,452,364, 7-1-69, Cl. 2-198.

Langston, Samuel M., Company: *See—*
Meister, Hans, 3,455,767.

Langstroth, Hall, to Watsco, Inc. Shielded-bearing roller for suspension devices. 3,469,892, 9-30-69, Cl. 308-3.8

Langtry, Manuel C.; and Banks, Stephen A., to Control Data Corporation. Character writing technique and symbol generation. 3,438,001, 4-8-69, Cl. 340-172.5

Langtry, Robert W.; Shepherd, Richard, 3rd; and Clark, Earl A., to Commercial Testing & Engineering Co., mesne. Sampling mechanism. 3,447,381, 6-3-69, Cl. 73-424.

Langwell, William Herbert. Prevention of deterioration of cellulose-based records. 3,472,611, 10-14-69, Cl. 21-58.

Lanham, Charles W., Jr., to Entron, Inc. Quick-release fastener means. 3,480,311, 11-25-69, Cl. 287-189.36

Lanham, Donald James: *See—*
Barwell, John Harold; and Lanham, Donald James,3,445,889.

Lanham Machinery Company, Inc.: *See—*
Lanham, William E., Jr., 3,460,667.

Lanham, William E., Jr., to Lanham Machinery Company, Inc. Method and apparatus for transferring bakery products and similar articles. 3,460,667, 8-12-69, Cl. 198-30.

Lanham, William E., Jr.: *See—*
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr.,3,440,973.
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr.,3,478,705.

Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr. Proofers for bread products and conveyor systems which are adapted to use therein. 3,440,973, 4-29-69, Cl. 107-7.
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr. Proofers and ovens for bread products. 3,478,705, 11-18-69, Cl. 107-57.
Lanier, Carroll W., to Ethyl Corporation. Purification of aqueous alkyl sulfate paste by distillation and water content control. 3,475,283, 10-28-69, Cl. 203-95.
Lanier Electronics Laboratory, Inc.: *See—*
Bolick, Fred C., Jr., 3,443,031.
Bolick, Fred C., Jr., 3,467,790.
Bolick, Fred C., Jr., 3,467,791.
Bolick, Fred C., Jr., 3,471,072.
Bolick, Fred C., Jr., 3,482,751.
Lanier, Jack K., to Best Equipment Company. Mowing apparatus. 3,462,925, 8-26-69, Cl. 56-25.4
Lanier, Robert S.: *See—*
Seligson, Arnold L.; and Lanier, Robert S.,3,476,887.
Lanigan, James P., Jr.: *See—*
Kotter, James l.; Salaun, Harold L., Jr.; Wallace, Eugene F.; and Lanigan, James P., Jr.,3,458,904.
Lanius, James C., Jr., to Illinois Tool Works Inc. Locking type nut. 3,422,869, 1-21-69, Cl. 151-30.
Lankford, William Austin, to USCO Power Equipment Corporation. Angularly adjustable in line disconnect assembly and adjustable link therefor. 3,480,747, 11-25-69, Cl. 200-48.
Lankford, William L., Jr.: *See—*
Jennings, Clifton C.; and Lankford, William L., Jr.,3,431,780.
Lankreijer, Willem, to North American Philips Company, Inc. Cathode current regulated high frequency oscillator. 3,448,407, 6-3-69, Cl. 331-167.
Lanman, Guy Riley. Teeter-totter with adjustable brake means. 3,434,714, 3-25-69, Cl. 272-54.
Lanman, Robert K., to Armorlite Lens Company Inc. Die finishing machine. 3,427,751, 2-18-69, Cl. 51-57.
Lanman, Robert W., to Parker-Hannifin Corporation. Piston and seal assembly. 3,443,486, 5-13-69, Cl. 92-244.
Lanmon, C. P., II, to Schlumberger Technology Corporation. Formation-sampling apparatus. 3,430,713, 3-4-69, Cl. 175-78.
Lanmon, C. P., II, to Rockwell Manufacturing Company. Dual suspension and seal. 3,451,481, 6-24-69, Cl. 166-46.
Lannen, Joseph P. Universal balance testing machine with automatic hold. 3,455,170, 7-15-69, Cl. 73-483.
Lannert, James W.; and Anderson, James J., to Whirlpool Corporation. Support assembly for a catalytic gas generator. 3,477,825, 11-11-69, Cl. 23-281.
Lannert, James W.; Townsend, George E.; and Schrage, David W., to Whirlpool Corporation. Apparatus for providing an oxygen-carbon dioxide atmosphere. 3,453,085, 7-1-69, Cl. 23-281.
Lanni, Michael J., to Bendix Corporation, The. Vertical gyro erection control system and method for gyro erection loop cutoff. 3,466,935, 9-16-69, Cl. 74-5.41
Lanning Equipment Corp.: *See—*
Solomon,Fred D., 3,486,182.
Lanning Equipment Corporation: *See—*
Solomon, Fred D., 3,456,275.
Lanning, Harold W.; and Williams, Alfred J., Jr., to General Motors Corporation. Electrolytic stock removal and deburring method. 3,468,775, 9-23-69, Cl. 204-143.
Lanning, Walter C., to United States of America, Navy, mesne. Timing generator for cathode ray tube display. 3,472,963, 10-14-69, Cl. 178-69.5
La Noce, Tullio: *See—*
Nobile, Luciano; Condorelli, Emanuele; La Noce, Tullio; and Poma, Anteo,3,435,024.
Nobile, Luciano; Conorelli, Emanuele; La Noce, Tullio; and Poma, Anteo,3,451,936.
Lanoie, Raymond A., to Lew Mfg. Co. Retractable writing instrument. 3,436,160, 4-1-69, Cl. 401-116.
Lanpher, Edward J.: *See—*
Hechenbleikner, Ingenuin; and Lanpher, Edward J.,3,470,254.
Lanphere, Robert E., to Standard Brands Incorporated. Manufacture of dextrin. 3,425,868, 2-4-69, Cl. 127-38.
Lansiart, Alain; Morucci, Jean Pierre; and Roux, Georges, to Commissariat a l'Energie Atomique. Method and apparatus for obtaining images from gas detectors by electron avalanches. 3,449,573, 6-10-69, Cl. 250-83.3
Lansing Bagnall Limited: *See—*
Goodacre, Cecil, 3,451,656.
Goodacre, Cecil, 3,469,858.
Huggins, John, 3,473,321.
Payne, Ivan Salisbury, 3,441,827.
Lansing, James B., Sound, Inc.: *See—*
Locanthi, Bart N., 3,428,908.
Lansing, William A., to LTV Aerospace Corporation. Motion transfer device. 3,470,749, 10-7-69, Cl. 74-1.
Lansink, Gerrit J., to N.V. Hollandse Signaalapparaten. Arrangement for establishing whether the number of pulses in a recurrent series is a multiple of N. 3,424,896, 1-28-69, Cl. 235-92.
Lansky, Zdenek J.; and Bracki, Kenneth A., to Parker-Hannifin Corporation. Quick exhaust valve. 3,424,185, 1-28-69, Cl. 137-102.
Lansky, Zdenek J.; and Leibfritz, Kurt W., to Parker-Hannifin Corporation. Pressure regulating valve. 3,420,257, 1-7-69, Cl. 137-116.5
Lantor Limited: *See—*
Coisne, Hubert Jean Marie, 3,437,509.
Lantos, Peter R.: *See—*
Bierenbaum, Harvey S.; Isaacson, Robert B.; and Lantos, Peter R.,3,426,754.
Lantz, George Arnold: *See—*
Barringer, Anthony Rene; and Lantz, George Arnold,3,437,914.
Lantz, William L.: *See—*
Allen, Roy A.; and Lantz, William L.,3,477,971.
Lanyon, Robert P.: *See—*
Boll, Carleton H.; and Lanyon, Robert P.,3,483,832.
Lanz, Donald D. Hanger for sheet metal ducts and the like. 3,458,166, 7-29-69, Cl. 248-216.
Lanz, Donald Duane; and Wilson, Roy Edward, to Omark Industries, Inc. Articulated assembly for a chain. 3,473,582, 10-21-69, Cl. 143-135.
Lanz, Walter. Method for producing aeroconcrete building blocks. 3,442,991, 5-6-69, Cl. 264-42.
Lanza, Alberto: *See—*
Cerutti, Giacomo; and Lanza, Alberto,3,434,180.
Lanzafame, Cosimo: *See—*
Rodorigo, Giacomo; and Lanzafame, Cosimo,3,475,028.
Lanzarone, Roland Michael: *See—*
Lenoir, Maurice Auguste Jacques; Lanzarone, Roland Michael; and Maigrot, Madeleine Georgette,3,440,254.
Lanzenberger, Horst, to Deckel, Hans and Deckel, Friedrich W. Milling machine with pivotal spindle head. 3,425,319, 2-4-69, Cl. 90-11.
Lanzinger, Robert H.: *See—*
Blakewell, Roland F.; Lanzinger, Robert H.; and Loveland, Malcolm W.,3,444,912.
Lanzl, Robert H.; and Lee, Harold R., to General Electric Company. Epoxy encapsulated semiconductor device. 3,439,235, 4-15-69, Cl. 317-234.
Lanzoni, Gianluigi. Steam condenser. 3,469,374, 9-30-69, Cl. 55-199.
Lanzoni, Gianluigi. Heating plant. 3,482,778, 12-9-69, Cl. 237-8.
Lanzoni, Ugo Keller: *See—*
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez,3,462,538.
La Penta, Joseph H., to Chandler Evans Inc. Shaft keeper clip. 3,481,637, 12-2-69, Cl. 287-100.
La Penta, Samuel Peter: *See—*
Gallay, Ralph; and La Penta, Samuel Peter,3,439,025.
Lapera, Dominic J., to Parker-Hannifin Corporation. Nozzle. 3,441,223, 4-29-69, Cl. 239-403.
Lapera, Dominic J.: *See—*
Simmons, Harold C.; and Lapera, Dominic J.,3,472,025.
Lapeyre, Fernand S., to Laitram Corporation, The. Process and device for separation of components of different specific gravities from mixtures thereof. 3,421,620, 1-14-69, Cl. 209-157.
Lapeyre, Fernand S., to Laitram Corporation, The. Machine for treating shrimp. 3,423,788, 1-28-69, Cl. 17-2.
Lapeyre, James M., to Laitram Corporation, The. Apparatus for individually treating headless shrimp. 3,430,288, 3-4-69, Cl. 17-2.
Lapham, Rodger J.: *See—*
Miles, Wallace J.; Lapham, Rodger J.; and Hahn, Harold G.,3,431,228.
Lapides, Jules S.; and McEvoy, James E., to Air Products and Chemicals, Inc. Fluidizable cracking catalyst. 3,458,454, 7-29-69, Cl. 252-455.
Lapidus, Milton, to American Home Products Corporation. Chromatographic purification of virus with brushite modified by autoclaving. 3,478,145, 11-11-69, Cl. 424-89.
Lapidus, Milton; and Fagan, Raymond, to American Home Products Corporation. Soluble pteridine complexes. 3,427,383, 2-11-69, Cl. 424-101.
Lapidus, Roy. Cast cooler. 3,477,427, 11-11-69, Cl. 128-82.1
La Pierre, Albert C. Portable diving platform. 3,432,003, 3-11-69, Cl. 182-107.
La Pierre, James F., to Interstate Folding Box Company, The. Pouring spout for carton structures. 3,438,555, 4-15-69, Cl. 222-128.
La Pierre, James F.; and Staggs, Donald R., to Interstate Folding Box Company, The. Prelined two wall packet. 3,482,758, 12-9-69, Cl. 229-14.
Lapierre, Maurice, to Societe d'Exploitation des Materiels Hispano-Suiza. Devices for handling annular charges. 3,440,139, 4-22-69, Cl. 176-30.
La Pierre, Raymond J., to Merck & Co., Inc. Complexes of 2-substituted benzimidazoles and bis- halogenated phenols. 3,475,444, 10-28-69, Cl. 260-302.
Lapin, Ellis E.; Ernest, Alan W.; and Sollow, Philip A., to Aerojet-General Corporation. Light concentrator type photovoltaic panel

having clamping means for retaining photovoltaic cell. 3,427,200, 2-11m69, Cl. 136-89.
La Pine Brothers, Inc.: *See—*
Crepeau, Melvin J., 3,461,485.
La Plante, Dale E., to Bell & Howell Company, mesne. Arc lamp supply with constant light regulation and over current protection. 3,483,428, 12-9-69, Cl. 315-151.
Laplume, Jacques, to Societe d'Etudes Techniques et d'Enterpriese Generales. Object identification system. 3,467,962, 9-16-69, Cl. 343-6.5
Lapochkin, Viktor Petrovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Lapof, Ray. Anti-personnel device. 3,447,461, 6-3-69, Cl. 102-8.
Lapof, Ray. Armament. 3,467,012, 9-16-69, Cl. 102-90.
La Pointe, Edward M., to Scott Paper Company. Winder tension control. 3,442,463, 5-6-69, Cl. 242-64.
LaPointe, Gabriel M., to Parker Manufacturing Company. Saw holder. 3,480,055, 11-25-69, Cl. 145-108.
Lapointe, Joseph Andrew, to Domtar Limited. Knife clamp. 3,477,483, 11-11-69, Cl. 144-218.
Lapointe, Joseph Andrew, to Domtar Limited. Wood wafering. 3,477,484, 11-11-69, Cl. 144-326.
Lapointe, Lloyd J.; and Parker, Ralph L., to Royal Typewriter Company, Inc. Apparatus for manufacturing print heads. 3,451,916, 6-24-69, Cl. 204-281.
La Police, George D.: *See—*
Blackwood, John; La Police, George D.; and Rakacs, Joseph G.,3,444,833.
Lapornik, Edward F., to Control Data Corporation. Reading machine optical system for selected scanning and display. 3,437,796, 4-8-69, Cl. 235-61.11
La Porta, John J., to Spedcor Electronics, Inc., mesne. Sweep control system for an oscilloscope or the like. 3,432,762, 3-11-69, Cl. 328-179.
La Porta, John J., to Spedcor Electronics, Inc., mesne. Non-ambiguous switch system. 3,432,848, 3-11-69, Cl. 340-357.
Laporte Chemicals Limited: *See—*
Harris, John F. G.; and Hildon, Anthony M., 3,463,618.
Manly, Tomas D., 3,428,689.
Laporte, Leo Conrad, to Imperial Tobacco Company of Canada, Limited. Cigar holder. 3,483,872, 12-16-69, Cl. 131-12.
La Porte, Michel: *See—*
Moulin, Pierre; Barret, Jean Pierre; and La Porte, Michel,3,421,138.
La Porte, Milton E.: *See—*
De Vlieg, Charles B.; and La Porte, Milton E.,3,456,530.
Laporte Titanium Limited: *See—*
Feld, Raoul, 3,436,239.
Feld, Raoul, 3,453,130.
Wigginton, Raymond J., 3,432,323.
Lappin, James B., Jr. Flying spiral stairway. 3,473,275, 10-21-69, Cl. 52-187.
Lapple, August, G.m.b.H. & Co.: *See—*
Eberhard, Haas, 3,429,048.
Haas, Eberhard, 3,466,807.
Lapple, Charles E., to Donaldson Company, Inc. Particle classification device and method. 3,441,135, 4-29-69, Cl. 209-144.
Lapple, Walter C.: *See—*
Sproul, Jared S.; and Lapple, Walter C.,3,437,434.
Sproul, Jared S.; McCarthy, Michael J.; and Lapple, Walter C.,3,437,433.
Lapporte, Seymour J., to Chevron Research Company. Chloroacetoxylation of olefins. 3,427,347, 2-11-69, Cl. 260-491.
Laprairie, Ernest J.: *See—*
Stewart, George T.; and Laprairie, Ernest J.,3,446,517.
Lapsevskis, Vilnis; and Svensson, Oake, to Telefonaktiebolaget L M Ericsson. Electronically controlled telecommunication system. 3,478,173, 11-11-69, Cl. 179-18.
Lapshin, Pavel Sergeevich: *See—*
Khamzin, Kamil Gumerovich; and Lapshin, Pavel Sergeevich,3,425,273.
Larach, Simon, to RCA Corporation. Luminescent image device and combinations thereof with optical filters. 3,454,716, 7-8-69, Cl. 178-7.86
Larach, Simon; Shrader, Ross E.; and Yocom, Perry N., to RCA Corporation. Luminescent image device and combinations thereof with optical filters. 3,454,715, 7-8-69, Cl. 178-7.86
Larach, Simon; and Yocom, Perry N., to RCA Corporation. Phosphor and method of preparation thereof. 3,459,667, 8-5-69, Cl. 252-301.6
Laran, Roy J.: *See—*
Kobetz, Paul; and Laran, Roy J.,3,453,093.
La Raus, Julius, to Ozonator Corporation. Water purifier. 3,445,001, 5-20-69, Cl. 210-98.
Larchar, Trescott B., Sr., to Olin Mathieson Chemical Corporation. Adhesive-forming compositions containing random poly-μ-carboranylenesiloxane copolymers and adhesives prepared therefrom. 3,445,427, 5-20-69, Cl. 260-46.5
Larchar, Trescott B., Sr.: *See—*
Schnabel, Wilhelm J.; and Larchar, Trescott B., Sr.,3,445,486.
Larcher, Armando: *See—*
Bondi, Enrico; and Larcher, Armando,3,450,659.
Lard, Edwin W.: *See—*
Braude, George L.; and Lard, Edwin W.,3,431,133.
Larde, Raymond; and Couillaud, Andre, to Roussel-Uclaf. Novel three phase aerosols. 3,446,746, 5-27-69, Cl. 252-305.
Larde, Raymond; and Couillaud, Andre, to Roussel-Uclaf. Novel organic derivative of bismuth and aluminum and process for its preparation. 3,474,086, 10-21-69, Cl. 260-209.5
Lare, Paul J.: *See—*
Divecha, Amarnath P.; Hahn, Henry; and Lare, Paul J.,3,441,392.
Larew, John J., to General Electric Company. Closed loop modulated light recognition system. 3,470,423, 9-30-69, Cl. 317-125.
Large, Leslie Noel: *See—*
Bounden, John Ellery; and Large, Leslie Noel,3,448,314.
Largman, Theodore; and Newallis, Peter E., to Allied Chemical Corporation. Pesticidal methods and a composition comprising arylphosphates and arylthiophosphates. 3,470,296, 9-30-69, Cl. 424-217.
Laridon, Urbain Leopold; and Delzenne, Gerard Albert, to Gevaert-Agfa N.V. Photochemical insolubilisation of polymers. 3,427,161, 2-11-69, Cl. 96-35.1
Laridon, Urbain Leopold; and Delzenne, Gerard Albert, to Gevaert-Agfa N.V. Photochemical cross-linking of polymers. 3,455,689, 7-15-69, Cl. 96-35.1
Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Mader, Helmut, to Gevaert-Agfa N.V. Photochemical cross-linking of polymers. 3,467,518, 9-16-69, Cl. 96-35.1
Laridon, Urbain Leopold: *See—*
Delzenne, Gerard Albert; and Laridon, Urbain Leopold,3,429,795.
Delzenne, Gerard Albert; and Laridon, Urbain Leopold,3,453,108.
Delzenne, Gerard Albert; and Laridon, Urbain Leopold,3,453,110.
Larime, Carl M.: *See—*
Honkonen, Richard A.; Allen, Paul E.; Way, Richard K.; and Larime, Carl M.,3,437,282.
Larimer, Victor Lewis, to Archer-Daniels-Midland Company. Addition products of phenols and polymerized fatty acids. 3,468,920, 9-23-69, Cl. 260-407.
Larimer, Victor L., to Ashland Oil & Refining Company, mesne. Hydroxy phenyl fatty amides and polymers thereof, their preparation and use. 3,479,377, 11-18-69, Cl. 260-404.
Lariokhin, Vladimir Ivanovich: *See—*
Karakashian, Zaven Oganezovich; Lariokhin, Vladimir Ivanovich; and Kazakov, Valentin Mikhailovich,3,476,040.
Larisch, Richard W.: *See—*
Dunnican, William O.; and Larisch, Richard W.,3,424,899.
Larive, Henri; and Baralle, Roger, to Eastman Kodak Company. Synthesis for heterocyclammonium betaines. 3,437,659, 4-8-69, Cl. 260-240.
Larkam, Charles W., to United States of America, Navy, mesne. Frequency solion transducer. 3,457,466, 7-22-69, Cl. 317-231.
Larkby, Geoffrey W. H.: *See—*
Davies, Henry; Houlgate, Henry J.; Larkby, Geoffrey W. H.; and Peat, Derek,3,458,156.
Larkham, John George, to Imperial Tobacco Company (of Great Britain and Ireland), Limited, The. Fluidised beds. 3,482,328, 12-9-69, Cl. 34-57.
Larkin, Artemas M., to Lockheed Aircraft Corporation. Hydraulic swing joint with seals having eccentric sealing contact. 3,460,857, 8-12-69, Cl. 285-98.
Larkin, Francis J. Waste treatment process. 3,422,007, 1-14-69, Cl. 210-7.
Larkin Goils, Inc.: *See—*
Nussbaum, Otto J., 3,434,299.
Larkin, James D.: *See—*
Foster, Scott H.; Larkin, James D.; and Williams, Charles R.,3,444,190.
Larkin, John M., to Whiting Corporation. Inductor mounting means for an induction furnace. 3,478,157, 11-11-69, Cl. 13-29.
Larkin, Mark E., to Phillips Petroleum Company. Apparatus for decorating and molding articles. 3,438,085, 4-15-69, Cl. 18-5.
Larkin, Mark E.: *See—*
Nave, Thomas J.; and Larkin, Mark E.,3,425,090.
Larkin, Sam. Pipe coupling having segmented clamping means. 3,464,722, 9-2-69, Cl. 285-367.
Larkin, Wallace K. Surface vehicle. 3,480,289, 11-25-69, Cl. 280-21.
Larkins, Thomas H., Jr.; and Malcolm, Michael O., to Eastman Kodak Company. Process for the preparation of gallium lactate. 3,450,729, 6-17-69, Cl. 260-429.

Larkins, Thomas Hassell, Jr.: *See—*
Kibler, Charles Jacob; and Larkins, Thomas Hassell, Jr.,3,483,166.
Larko, Robert: *See—*
Ross, Robert H.; Roth, Willard; Larko, Robert; and Swartzfager, Walter,3,447,790.
Larmuseau, Marc Auguste. Oven for foods. 3,455,231, 7-15-69, Cl. 99-339.
La Rocca, Edward W.: *See—*
McEwan, William S.; and La Rocca, Edward W.,3,437,534.
La Roche, William J. Inhalant dispenser. 3,425,414, 2-4-69, Cl. 128-201.
La Rochelle, Fernand L.: *See—*
Bosworth, Delbert B.; Christy, Arthur S., Jr.; and La Rochelle, Fernand L.,3,434,609.
La Rocque, Armand P.; and McNeil, Gordon, to United States of America, Army. Solid state device with reduced leakage current at N-P juntions over which electodes pass. 3,426,253, 2-4-69, Cl. 317-234.
La Rosa, Richard, to Hazeltine Research, Inc. Compensating means for minimizing undesirable variations in the amplitude of a reflected wave. 3,422,378, 1-14-69, Cl. 333-28.
La Rose, W. T., and Associates, Inc.: *See—*
Hull, John L.; Dovey, Kenneth D.; La Rose, William T., Sr.; and Trembley, John R., 3,473,196.
La Rose, William T., Sr.: *See—*
Hull, John L.; Dovey, Kenneth D.; La Rose, William T., Sr.; and Trembley, John R.,3,473,196.
Larrabee, Edward W.: *See—*
Isreeli, Jack; Smythe, William J.; and Larrabee, Edward W.,3,481,708.
Larrieu, Leslie J., to Kirk, Morris P., & Son, Inc. Zinc base casting alloy. 3,420,661, 1-7-69, Cl. 75-178.
Larrieu, Remi: *See—*
Jenner, Pierre; Sayous, Leon; and Larrieu, Remi,3,429,396.
Larsen, Andrew C., 1/2 to Johnson, Gene Ann. Library book cart. 3,467,258, 9-16-69, Cl. 211-43.
Larsen, Arne H.: *See—*
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr.,3,473,212.
Larsen, Arthur B., to TRW Inc. Inverter circuit for supplying a sine wave substantially free of harmonics. 3,458,797, 7-29-69, Cl. 321-9.
Larsen, Aubrey A.; and Gould, William A., deceased0 (by Gould, Barbara E., legal representative;), to Mead Johnson & Company. Sulfonamidotryptamines. 3,472,870, 10-14-69, Cl. 260-326.12
Larsen, Aubrey A.; and Scarborough, Homer C., deceased0 (by Scarborough, Phyllis Jean; personal representative), to Mead Johnson & Company. Substituted 3-benzazocin-6-ones. 3,442,890, 5-6-69, Cl. 260-239.
Larsen, Aubrey A.; and Uloth, Robert H., to Mead Johnson & Company. Therapeutic compositions and methods employing sulfonaidophenethanolamines. 3,478,149, 11-11-69, Cl. 424-228.
Larsen, Bendt Wegge, to Danfoss A/S. Sealed motor-compressor, especially for small refrigerating units. 3,482,769, 12-9-69, Cl. 230-206.
Larsen, Bendt Wegge, to Danfoss A/S. Leaf spring valve for compressors, particularly for small refrigerating machines, and method of fitting it. 3,486,526, 12-30-69, Cl. 137-454.4
Larsen, Bendt Wegge; and Lund, Egon, to Danfoss A/S. Hermetic capsule and method of manufacture thereof. 3,473,687, 10-21-69, Cl. 220-4.
Larsen, Bendt Wegge: *See—*
Enemark, Arne F.; Kjeldsen, Kjeld; and Larsen, Bendt Wegge,3,480,206.
Valbjorn, Knud V.; Larsen, Bendt Wegge; and Madsen, Anker Erik,3,459,364.
Larsen, Bendt W.; and Valbjorn, Knud V., to Danfoss A/S. Motor-compressor for an encapsulated refrigerating unit. 3,441,203, 4-29-69, Cl. 230-235.
Larsen, Bent Werdelin. Means for welding bail ears to containers. 3,454,188, 7-8-69, Cl. 220-91.
Larsen, Bent Werdelin. Welding of mountings on hollow sheet-metal bodies. 3,476,905, 11-4-69, Cl. 219-93.
Larsen, Christian M.: *See—*
Grantham, Leroy F.; and Larsen, Christian M.,3,438,733.
Larsen, David E.: *See—*
La Mers, Herbert, 3,472,218.
Larsen, Donald W., to Grace, W. R., & Co. Polyethylene stabilized by treatment with sulfur dioxide in the presence of free radicals. 3,464,952, 9-2-69, Cl. 260-45.7
Larsen, Dorwin R., to Caterpillar Tractor Company. Missile carrier electronic steering circuit. 3,455,408, 7-15-69, Cl. 180-79.2
Larsen, Earl I.: *See—*
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R.,3,438,751.
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R.,3,438,752.
Larsen, Eric R.: *See—*
Davis, Ralph A.; and Larsen, Eric R.,3,483,279.
Pumpelly, Charles T.; Pedjac, Joseph J.; and Larsen, Eric R.,3,454,658.
Larsen, Gary V., to Case, J. I., Company. Stone trap for combines. 3,433,230, 3-18-69, Cl. 130-27.
Larsen, Gunnar H.: *See—*
Bye-Jorgensen, Jorgen S.; and Larsen, Gunnar H.,3,468,795.
Larsen, Hans Andreas. Apparatus for introducing one fluid into another. 3,482,520, 12-9-69, Cl. 103-6.
Larsen, Henry A. Support bracket for overlapping window shades. 3,420,487, 1-7-69, Cl. 248-266.
Larsen, Johannes Peter. Piece of furniture. 3,469,882, 9-30-69, Cl. 297-118.
Larsen, John E., to General Electric Company. Apparatus for altering the configuration of electrically conductive turns of inductive devices. 3,432,907, 3-18-69, Cl. 29-205.
Larsen, John E., to General Electric Company. Magnetic core of an electromagnetic device having slats accommodating compacted electrical coil turns. 3,456,142, 7-15-69, Cl. 310-180.
Larsen, John E.; and Sims, Marion W., to General Electric Company. Methods for separating electrically conductive and adjacent elements. 3,421,208, 1-14-69, Cl. 29-609.
Larsen, John E.; and Van Derzee, Harold R., to General Electric Company. Method for attaining the desired configurations of electrical coils. 3,438,125, 4-15-69, Cl. 29-606.
Larsen, John H. Automatic screw-driving machine. 3,482,612, 12-9-69, Cl. 144-32.
Larsen, Leif: *See—*
Sparso, Viggo H.; and Larsen, Leif,3,474,624.
Larsen, Marget A.; and Sickler, Earl E., to Intrinsics, Inc. Educational toy. 3,461,574, 8-19-69, Cl. 35-73.
Larsen, Michael J.: *See—*
Donnelly, John F.; Larsen, Michael J.; and Webber, William O.,3,427,138.
Larsen, Richard J.: *See—*
Rodgers, John T.; Williams, Richard M.; and Larsen, Richard J.,3,420,244.
Larsen, Robert A.: *See—*
Tellerman, Edward M.; and Larsen, Robert A.,3,425,050.
Larsen, Roy: *See—*
Gobran, Riad H.; Santaniello, Anthony F.; and Larsen, Roy,3,448,091.
Larsen, Theodore J., to Smith, Kline & French Laboratories. Measuring assembly for spectrophotometric analyzing apparatus. 3,475,102, 10-28-69, Cl. 356-246.
Larsh, Everett P., to Hobart Manufacturing Company, The. Combined switch device and centrifugally operable actuator therefor. 3,482,068, 12-2-69, Cl. 200-80.
Larson, Alpheus W. Letter pack. 3,458,034, 7-29-69, Cl. 206-63.
Larson, Beverly A.: *See—*
Larson, John G., 3,442,409.
Larson, Charles O., to Larson, Chas. O., Co. Display. 3,458,037, 7-29-69, Cl. 206-78.
Larson, Charles O., to Larson, Chas. O., Co. Folding leg assembly. 3,464,373, 9-2-69, Cl. 108-125.
Larson, Charles O., to Larson, Chas. O., Co. Sawhorse bracket assembly. 3,480,111, 11-25-69, Cl. 182-224.
Larson, Charles O., to Larson, Chas. O., Co. Inclinded pegboard mounting displays. 3,482,709, 12-9-69, Cl. 211-148.
Larson, Charles O., to Larson, Chas. O., Co. Display hook. 3,483,995, 12-16-69, Cl. 211-57.
Larson, Charles O., to Larson, Chas. O., Co. Article support construction. 3,484,069, 12-16-69, Cl. 248-225.
Larson, Charles O., to Larson, Chas. O., Co. Shelf support. 3,485,382, 12-23-69, Cl. 211-150.
Larson, Chas. O., Co.: *See—*
Larson, Charles O., 3,458,037.
Larson, Charles O., 3,464,373.
Larson, Charles O., 3,480,111.
Larson, Charles O., 3,482,709.
Larson, Charles O., 3,483,995.
Larson, Charles O., 3,484,069.
Larson, Charles O., 3,485,382.
Larson, Daniel A., to Westinghouse Electric Corporation. High pressure, metallic vapor discharge lamp including mercury and thallium iodide. 3,431,447, 3-4-69, Cl. 313-25.
Larson, Daniel A., to Westinghouse Electric Corporation. Metal vapor discharge lamp. 3,452,238, 6-24-69, Cl. 313-229.
Larson, Dean W.; and Rinaldi, Josephine L. Diagnostic and therapeutic instrument for disorders of the eyes. 3,464,407, 9-2-69, Cl. 128-76.5
Larson, Donald H.: *See—*
Kuhl, Bernhard R.; and Larson, Donald H.,3,428,021.
Larson, Edward S., Jr., to Marvin Glass & Associates. Mouse trap type game apparatus. 3,437,337, 4-8-69, Cl. 273-1.
Larson, Frank William Douglas Landor, to St. Regis-Consolidated Packaging Limited. Control circuit for sequentially triggering plurality of silicon controlled rectifiers upon sequential actuations of a switch. 3,432,678, 3-11-69, Cl. 307-38.
Larson, Gail V.: *See—*
Gilson, John L.; and Larson, Gail V.,3,421,910.
Larson, George G. Knife. 3,453,729, 7-8-69, Cl. 30-162.

Larson, George G., to Eversharp, Inc. Writing instrument. 3,458,267, 7-29-69, Cl. 401-213.
Larson, George G., to Eversharp, Inc. Writing instrument. 3,475,104, 10-28-69, Cl. 401-195.
Larson, Harold F.: *See—*
Schultz, Robert L.; and Larson, Harold F.,3,462,767.
Larson Industries, Inc.: *See—*
Woods, Michael K., 3,441,273.
Larson, John Eric, to Imperial Chemical Industries Limited. Purification of phenols. 3,454,653, 7-8-69, Cl. 260-621.
Larson, John Frederick: *See—*
Hedler, Robert A.; Larson, John Frederick; and Regenbrecht, Albert, Jr.,3,474,040.
Larson, John G., to Larson, Beverly A. Transport vehicle. 3,442,409, 5-6-69, Cl. 214-512.
Larson, John L.: *See—*
Lewis, Henry Walter; and Larson, John L.,3,457,810.
Larson, John R.: *See—*
Lusskin, Robert M.; Backer, Frank; and Larson, John R.,3,423,371.
Larson, Kenneth E.; and Gordon, Earl F. Hairbrush cleaner. 3,470,575, 10-7-69, Cl. 15-38.
Larson, Kenneth R., to Snap-On Tools Corporation. Testing device for torque wrenches. 3,456,485, 7-22-69, Cl. 73-1.
Larson, Kenneth R., to Snap-On Tools Corporation. Pre-set adjustable torque measuring devices. 3,475,953, 11-4-69, Cl. 73-139.
Larson, Lawrence H. Apparatus for use in grinding lenses. 3,468,067, 9-23-69, Cl. 51-96.
Larson, Leward M.: *See—*
Swauger, Donald A., 3,451,709.
Larson, Lewis P.: *See—*
Arkell, Alfred; Reinhard, Russell R.; Heisler, Robert Y.; and Larson, Lewis P.,3,454,369.
Larson, Lloyd E. Produce vendor with multiple conveyor and holdback means. 3,421,657, 1-14-69, Cl. 221-13.
Larson, Melvin L., to American Metal Climax, Inc. Method of preparing molybdenum (III) acetylacetonate. 3,429,903, 2-25-69, Cl. 260-429.
Larson, Miles B.: *See—*
Feaster, Guy R.; and Larson, Miles B.,3,453,768.
Larson, Olaf A.: *See—*
Kerns, Bernard A.; and Larson, Olaf A.,3,446,730.
Larson, Ralph H., to United States of America, Air Force, mesne. Pneumatic acceleration sensor. 3,433,080, 3-18-69, Cl. 73-515.
Larson, Raymond C., Sr. Fuel atomizing unit. 3,449,098, 6-10-69, Cl. 48-180.
Larson, Robert E., to Donaldson Company, Inc. Automatic-unloading dust valve for centrifugal air cleaners. 3,429,108, 2-25-69, Cl. 55-432.
Larson, Robert E.: *See—*
Peschl, John; and Larson, Robert E.,3,435,194.
Larson, Robert W., to Beloit Corporation. Apparatus for topping and delimbing trees. 3,461,926, 8-19-69, Cl. 144-2.
Larson, Robert W.; and Jam, Joseph C., to Beloit Corporation. Apparatus for lifting and forwarding tree- length logs. 3,452,888, 7-1-69, Cl. 214-80.
Larson, Robert W.; Jam, Joseph C.; and Lundberg, John P., to Beloit Corporation. Tree shear and accumulator apparatus. 3,468,352, 9-23-69, Cl. 144-34.
Larson, Robert W.; and Lundberg, John P., to Beloit Corporation. Apparatus for loading and transporting tree-length logs. 3,452,887, 7-1-69, Cl. 214-80.
Larson, Swan William, to United Aircraft Corporation. Multi-axis optical viewing system of a movable electron beam in a vacuum chamber. 3,465,119, 9-2-69, Cl. 219-121.
Larson, Warren L.: *See—*
Abkowitz, Stanley; Larson, Warren L.; and Rizzitano, Fortunato J.,3,475,142.
Fairbanks, Daniel F.; Larson, Warren L.; Randall, Robert N.; and Wong, James,3,476,615.
Larson, Welsey S.; Panicci, Richard L.; Thomson, Richard N.; and Osmalov, Jerome S., to Morris, Philip, Incorporated. Manufacture of continuous tubular article. 3,466,213, 9-9-69, Cl. 156-245.
Larson, Willard D., to Dow Corning Corporation. Fluorosilicon molding resins. 3,453,232, 7-1-69, Cl. 260-46.5
Larsonneur, Louis C., to Nalco Chemical Company. Process for treating metal. 3,440,095, 4-22-69, Cl. 134-3.
Larsson, Bernt Arne Rudolf: *See—*
Christensen, Frede; Henningsen, Christian Johannes; Larsson, Bernt Arne Rudolf; Knipstrom, Karl-Erik; and Skarpengland, Bjorn Frost,3,427,527.
Larsson, Ivar F., to Burroughs Corporation. Method for adjusting thin film resistors. 3,431,640, 3-11-69, Cl. 29-620.
Larsson, John E.: *See—*
Jensen, Karl Greve; and Larsson, John E.,3,460,398.
Larsson, Karl Bertil; and Sander, Nils Borje Lennart, to Svenska Aktiebolaget Bromsregulator. Railway vehicle wheel brake unit. 3,430,740, 3-4-69, Cl. 188-202.
Larsson, Paul, to Allmanna Svenska Elektriska Aktiebolaget. Hydraulic press with light-sensitive control means. 3,430,471, 3-4-69, Cl. 72-29.
Larsson, Per Erik Arne; and Thornblad, Per Gosta, to Stal-Laval Turbin AB. Two-stage reduction mechanism for driving two marine propellers. 3,447,611, 6-3-69, Cl. 170-135.28
Larsson, Robert T., to Midland Engineering & Machinery Company. Coil bobbin with magnetic core for dynamoelectric machines. 3,436,574, 4-1-69, Cl. 310-194.
Larsson, Sven A. Mounting frame. 3,486,263, 12-30-69, Cl. 40-152.
Larsson, Torsten Alrik: *See—*
Jacobaeus, Anton Christian; and Larsson, Torsten Alrik,3,472,968.
La Russa, Joseph, to Farrand Optical Co., Inc. Infinite optical image-forming apparatus. 3,443,858, 5-13-69, Cl. 350-157.
La Russa, Joseph: *See—*
Shenker, Marvin; La Russa, Joseph; and Nershi, George Thomas,3,432,219.
Lasaine, Alfred D.; Mattson, Terrance W.; Moore, Clifford William; and Otey, Glen R. One piece collapsible table. 3,438,345, 4-15-69, Cl. 108-115.
Lasalco Incorporated: *See—*
Kumpf, Leonard P., 3,431,192.
La Salle Machine Tool, Inc.: *See—*
Joichi, Lloyd H., 3,428,190.
Joichi, Lloyd H., 3,447,406.
Joichi, Lloyd H., 3,447,658.
Joichi, Lloyd H., 3,449,986.
Sattler, Robert I.; Joichi, Paul T.; and van den Kieboom, Johannes L., 3,473,269.
La Salle Steel Company: *See—*
Breyer, Norman N., 3,430,477.
La Salvia, Luciano J.: *See—*
Noll, Charles A.; and La Salvia, Luciano J.,3,468,796.
Laschenski, Joseph E., to Philco-Ford Corporation. Changer mechanism for record tape cartridge. 3,477,726, 11-11-69, Cl. 274-4.
Laschewski, Georg, to Zilling, Wilhelm. Sheet feeding apparatus for binding machines. 3,438,622, 4-15-69, Cl. 270-45.
Lasco, Ralph H.; and Ferretti, Emmett J., to Diamond Shamrock Corporation. Method for the preparation of polymerization- grade trioxane. 3,470,208, 9-30-69, Cl. 260-340.
Lase Co., The: *See—*
Frank, Louis M., 3,487,221.
Laser Incorporated: *See—*
Polanyi, Thomas G.; and Tobias, Irwin, 3,453,557.
Laseter, John L., to Independent Exploration Company of Texas. Method of and apparatus for exploring for deposits of helium and detection of helium in gaseous mixtures. 3,447,360, 6-3-69, Cl. 73-23.1
Lashenko, John: *See—*
Cowley, Harold Raymond; and Lashenko, John,3,439,594.
Lasher, Gordon J., to International Business Machines Corporation. Multistable device operating on the principle of stimulated emission of radiation. 3,427,563, 2-11-69, Cl. 331-94.5
Lasher, Hiram N.: *See—*
Gelenczei, Emil F.; and Lasher, Hiram N.,3,429,965.
Lasher, Nathan; and Lasher, Richard W., to Jennat Corporation. Method of preparing polymer emulsion using nonionic phosphate triester surfactant. 3,449,282, 6-10-69, Cl. 260-29.6
Lasher, Richard W.: *See—*
Lasher, Nathan; and Lasher, Richard W.,3,449,282.
Lashkow, Jack I., to Weather-Tite Division of the Pacific Coast Company. Electrically grounded, lapped siding. 3,430,395, 3-4-69, Cl. 52-173.
Lashley, Ronald T.; and Emmons, Buddie G., to Emmons Guitar Company, Inc. Guitar tone changing device. 3,447,413, 6-3-69, Cl. 84-312.
Lasier, Thomas R.; and Pollack, Roy L., to Schlage Lock Company. Housing for door closing and checking mechanism. 3,426,382, 2-11-69, Cl. 16-49.
Lasier, Thomas R.; and Pollack, Roy L., to Schlage Lock Company. Door closer mechanism. 3,426,383, 2-11-69, Cl. 16-62.
Lasker, Adolphe H. A. Detachable fork rotisserie assembly. 3,473,464, 10-21-69, Cl. 99-421.
Laskey, Norman V.: *See—*
Campbell, George T. R.; and Laskey, Norman V.,3,469,556.
Campbell, George T. R.; and Laskey, Norman V.,3,481,295.
Laskin, Maruie, to Grace, W. R., & Co. Method of producing freeze-dried sour cream fruit products. 3,472,663, 10-14-69, Cl. 99-199.
Laskin, Maurie, to Grace, W. R., & Co. Freeze-drying ice milk confections. 3,464,834, 9-2-69, Cl. 99-199.
Laskin, Maurie, to Grace, W. R., & Co. Process of producing freeze dried candy coated gelatin dessert. 3,483,000, 12-9-69, Cl. 99-134.
Lasko, George A., to Woolsey Marine Industries, Inc. Batten for sails. 3,433,199, 3-18-69, Cl. 114-102.
Lasko, George A. Telescopic poles with locking means for picking up line. 3,433,521, 3-18-69, Cl. 294-19.
Laskow, William: *See—*
Gatti, Arno; and Laskow, William,3,457,033.

Laskowski, Stanley C., to Sterling Drug Inc. Phenylhydrazone derivatives as intermediates for preparing indoles. 3,468,882, 9-23-69, Cl. 260a240.
Lasman, Henry R., to National Polychemicals, Inc. Method of foaming and crosslinking polyolefins using polyazodiformate compounds. 3,428,583, 2-18-69, Cl. 260-2.5
La Societe Chimique de la Grande Paroisse: *See—*
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert, 3,457,192.
La Societe Chimique de la Grande Paroisse, Azote et Produits Chimiques: *See—*
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert, 3,420,643.
La Societe des Ateliers Robatel et Mulatier: *See—*
Dollfus, Jacques; and Miachon, Jean Paul, 3,438,573.
Dollfus, Jacques, 3,459,368.
La Soudure Electrique Autogene, Procedes Arcos: *See—*
de Coninck van Noyen, Pieter C. G. M., 3,453,411.
Furlanetto, Leopoldo, 3,461,494.
Malchaire, Marcel Jean Joseph, 3,423,565.
Sunnen, Jean Albert Francois, 3,430,031.
Sunnen, Jean Albert Francois, 3,445,624.
La Soudure Electrique Languepin: *See—*
Braudeau, Pierre; and Maillet, Alfred M. A., 3,433,919.
Maillet, Alfred M. A., 3,435,562.
Maillet, Alfred M. A., 3,466,416.
La Spirotechnique: *See—*
Cousteau, Jacques Yves; and Gagnan, Emile, 3,480,011.
Deloire, Raymond, 3,447,535.
Lass, James L., to General Electric Company. Nuclear fuel element. 3,466,226, 9-9-69, Cl. 176-68.
Lass, James L.; and Venier, Dominic A., to General Electric Company. Nuclear reactor fuel bundle. 3,431,170, 3-4-69, Cl. 176-78.
Lasseigne, Albon J., to Sears, Roebuck and Co. Automatic closet light. 3,479,498, 11-18-69, Cl. 240-2.
Lassen, Herbert A.; and Ward, Edward A., to TRW Inc. Antenna formed of filamentary material deployed in space by centrifugal force. 3,423,755, 1-21-69, Cl. 343-705.
Lassen, Nicls: *See—*
Petersen, Povl Viggo; Lassen, Niels; Norgaard, Jette; and Huld, Torben,3,467,675.
Lasseur, Walter: *See—*
Pfaff, Herbert; Lasseur, Walter; and Hillebrand, Friedhelm,3,447,806.
Lassig, Wolfgang; and Ludloff, Wolfgang, to Agfa Aktiengesellschaft, and Gesellschaft fur Multiblitzgerate Dr.-Ing. D.A. Mannesmann mbH. Apparatus for producing reflex copies. 3,441,347, 4-29-69, Cl. 355-104.
Lassig, Wolfgang; Riebel, Alexander; Puschel, Walter; and Himmelmann, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Photographic material for a dry copying method. 3,480,431, 11-25-69, Cl. 96-27.
Lassig, Wolfgang: *See—*
Puschel, Walter; Schranz, Karl-Wilhelm; Lassig, Wolfgang; Marx, Paul; and Credner, Hans-Heinrich,3,443,942.
Saleck, Wilhelm; Lassig, Wolfgang; and Posse, Rolf-Fred,3,432,304.
Lassiter, James Turnley, to Du Pont de Nemours, E. I., and Company. Process for preventing caking of adipic acid, and product. 3,459,798, 8-5-69, Cl. 260-537.
Lassmann, Karl, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Nozzle for plastic melts. 3,461,493, 8-19-69, Cl. 18-8.
Lasswell, Fred D., Jr. Fruit picking spindle and arrangement therefor. 3,458,982, 8-5-69, Cl. 56-328.
Lasswell, Tull C. Display unit. 3,458,946, 8-5-69, Cl. 40-10.
Lastinger, William R.: *See—*
Gardner, Newell J.; and Lastinger, William R.,3,479,767.
Lasto, Clifford S.: *See—*
Duhaime, Raymond A.; Lasto, Clifford S.; and Lasto, Stephen W.,3,474,953.
Lasto, Stephen W.: *See—*
Duhaime, Raymond A.; Lasto, Clifford S.; and Lasto, Stephen W.,3,474,953.
Laswell, John E.: *See—*
Bliss, Billy R.; Gilliam, Clarence W.; and Laswell, John E.,3,473,472.
Laszlo, Karl, to Bauknecht, G., G.m.b.H. Elektrotechnische Fabriken. Up and down movable plate with marginal sealing. 3,429,628, 2-25-69, Cl. 312-214.
Latady, William R.; and Kenworthy, Norman Paul, Jr. Motion picture camera system. 3,437,748, 4-8-69, Cl. 178-6.8
La Tart, Leland J., to Revere Copper and Brass Incorporated. Wall construction assembly. 3,469,362, 9-30-69, Cl. 52-586.
La Telemecanique Electrique: *See—*
Aupetit, Marcel, 3,420,971.
Fechant, Louis Joseph, 3,434,052.
Joly, Jean L., 3,450,828.
Joly, Jean Louis Andre, 3,470,526.
Lacan, Guy H.; and Contal, Maurice G., 3,457,532.
Lescarboura, Jean B., 3,464,055.
Olliviero, Bernard Jean, 3,459,059.
Schneider, Charles; and Lameyre, Felix Gervais, 3,470,422.
La Telemeccanica Elettrica, Ingg. Amati & Gregorini: *See—*
Risso, Giovanni, 3,425,679.
La Telemechanique Electrique: *See—*
Birard, Claude Auguste; and Cottrez, Gerard, 3,483,555.
Lateltin, Paul Etienne; and Mallet, Maurice Jules Arthur, to Rhone-Poulenc S.A. Solutions of polyalkylquinozolone. 3,438,928, 4-15-69, Cl. 260-33.4
La Tendresse, Philip E., to Pettibone Mulliken Corporation. Reaching loader with guided lift cylinders. 3,432,050, 3-11-69, Cl. 214-139.
LaTendresse, Philip E.: *See—*
Michaelson, Reynold R.; and LaTendresse, Philip E.,3,477,596.
Latex and Polymer Research Corporation: *See—*
Zakim, Gerald; and Shihadeh, Musa M., 3,427,178.
Latham, Archie J.: *See—*
Phillips, Lee V.; and Latham, Archie J.,3,471,621.
Latham, Peter A.; and Brefka, Paul E. Collapsible dispensing container. 3,471,058, 10-7-69, Cl. 222-92.
Latham, Peter A.: *See—*
Shapiro, Laban D.; Latham, Peter A.; Brefka, Paul E.; and LaBrie, Paul J.,3,479,568.
Latham, Raymond E.: *See—*
Hill, Erwin F.; and Latham, Raymond E.,3,467,120.
Latham, William Nichols: *See—*
Nason, Walter C.; and Latham, William Nichols,3,481,505.
Latham, William Nichols, to Process Engineering Inc. Support system for cryogenic containers. 3,425,585, 2-4-69, Cl. 220-15.
Lathem Time Recorder Company: *See—*
Hooper, Harrison G., 3,431,845.
Lathers, William C., to Baldwin-Lima-Hamilton Corporation. Earth compacting device. 3,446,123, 5-27-69, Cl. 94-50.
Lathrop Paulson Company: *See—*
Hageline, Emil E., 3,481,105.
Latiano, Raymond N., to Republic Steel Corporation. Adjustable stud anchor. 3,445,977, 5-27-69, Cl. 52-713.
Latimer, Howard J., Jr.: *See—*
Bushnell, Calvin L.; and Latimer, Howard J., Jr.,3,441,442.
Latimer, Kenneth J., to United States of America, Air Force. Pressure and heat transfer apparatus. 3,454,985, 7-15-69, Cl. 18-17.
La Torre, Jack. Expansible fastener with expander therefor. 3,460,429, 8-12-69, Cl. 85-78.
La Torre, Jack, 33 1/3 to Mahoney, Thomas P. Fastener having interference thread forming means associated therewith. 3,467,157, 9-16-69, Cl. 151-14.
La Torre, Mario. Transportable leaf collector. 3,469,762, 9-30-69, Cl. 229-32.
Latos, Edwin J., to Universal Oil Products Company. Phosphorus-containing salt of particular acid and amino reaction products. 3,451,929, 6-24-69, Cl. 252-32.5
Latour, Henri, to Motosacoche S.A. Cam shaft. 3,447,395, 6-3-69, Cl. 74-567.
Latrubesse, Andre; Hullot, Maxime; and Govaerts, Gerard, to International Standard Electric Corporation. Switching device in matrix form. 3,448,416, 6-3-69, Cl. 335-112.
Latschar, Carl E., to Du Pont de Nemours, E. I., and Company. Antistatic lubricating composition for textile fi- bers. 3,428,481, 2-18-69, Cl. 117-138.8
Latta, Edward, to Controls Company of America. Motor armature bearing assembly resiliently supported in a longitudinally split housing. 3,463,954, 8-26-69, Cl. 310-90.
Latta, Edward; and Godin, Edmund J., to Controls Company of America, mesne. Plural motor assembly. 3,471,729, 10-7-69, Cl. 310-112.
Latta, Edward; Godin, Edmund J.; and Phillips, Jerome, to Controls Company of America. Brush assembly for dynamoelectric machine. 3,444,409, 5-13-69, Cl. 310-239.
Latta, Lee M. Cooking apparatus. 3,433,211, 3-18-69, Cl. 126-25.
Lattard, Jean, to Ateliers de Montages Electriques. Co-axial bridge circuit. 3,427,571, 2-11-69, Cl. 333-11.
Lattard, Jean, to Ateliers de Montages Electriques. Modulated wave mechanical generator. 3,484,786, 12-16-69, Cl. 343-109.
Latter, Charles F., to Square D Company. Electrical joint structure including aluminum wire and copper connector. 3,431,547, 3-4-69, Cl. 339-272.
Latter, Charles F., to Rosengarten, Philip D. Filment winding machine. 3,433,434, 3-18-69, Cl. 242-158.
Latter, Lionel E., to Canadian International Paper Company. Apparatus and process for shoring packages in shipping compartments. 3,464,367, 9-2-69, Cl. 105-369.
Lattin, Jocelyn C.: *See—*
Clark, Kendall; Herrmann, Theodor; Lattin, Jocelyn C.; and Medwid, John,3,465,408.
Lattis, Donald J.; Congleton, Wayne L.; and Gomez, Jose J. Combustion exhaust simulator. 3,479,759, 11-25-69, Cl. 40-106.51
Lattke, Horst G., to Emhart Corporation. Apparatus for loading articles in upwardly open non-partitioned packing cases. 3,478,491, 11-18-69, Cl. 53-248.

Lattmann, Max, to Contraves AG. Tachometric computer. 3,469,081, 923-69, Cl. 235-150.271
Lau Blower Company, The: *See—*
Martin, Warner W.; and Matas, Vyto, 3,456,927.
Lau, Edward H.: *See—*
Pinto, Anthony; Cornish, Arthur H.; Leonard, Eugene; Wolf, Edgar; and Lau, Edward H.,3,441,713.
Wolf, Edgar; Lau, Edward H.; and Berezin, Evelyn,3,461,552.
Lau, Philip T. S.; and Grillot, Gerald F., to Allied Chemical Corporation. Process for preparing 4-(phenylthiomethyl) anilines, and 4-(p-chlorophenylthiomethyl)-N- methyl aniline. 3,453,330, 7-1-69, Cl. 260-576.
Lau, Stanley K.; and Maruyama, Robert T. Apparatus for making striated plastic chips. 3,486,189, 12-30-69, Cl. 18-4.
Laub, Henry C. Threading device. 3,473,711, 10-21-69, Cl. 223-105.
Laub, Herman. Balanced vacuum filler. 3,464,464, 9-2-69, Cl. 141-59.
Laub, Joseph L.; and Gilbert, John A., to Unitek Corporation. Capacitor linear charging power supply. 3,427,501, 2-11-69, Cl. 315-200.
Laub, Joseph L.; and Mansour, Momtaz Nosshi, to Unitek Corporation. Wire clamp. 3,430,834, 3-4-69, Cl. 228-1.
Laubach, Gerald D.: *See—*
McLamore, William M.; and Laubach, Gerald D.,3,440,244.
McLamore, William M.; and Laubach, Gerald D.,3,480,652.
Laubach, Marvin T. Diesel engine propane accessory. 3,443,551, 5-13-69, Cl. 123-27.
Laubach, Winton H. Individual and game scoring mechanism for bridge. 3,486,754, 12-30-69, Cl. 273-148.
Laube, Hans, to Hammond Corporation. Electric musical instrument reverberation nonlinear control system. 3,463,868, 8-26-69, Cl. 84-1.24
Laube, Rene. Apparatus for comparing an analogul value with a digital value. 3,474,231, 10-21-69, Cl. 235-61.7
Laubenfels, Clarence R. Dial device with optional stop means. 3,486,386, 12-30-69, Cl. 74-10.2
Laubenheimer, Robert W.: *See—*
Johnson, Joseph F.; and Laubenheimer, Robert W.,3,421,123.
Lauber, Ernst, to Maschinenfabrik Habegger AG. Cutter head for use in a tunnel driving machine. 3,429,617, 2-25-69, Cl. 299-93.
Lauber, Ernst, to Maschinenfabrik Habegger AG. Sectional tunnel boring machine. 3,445,137, 5-20-69, Cl. 299-31.
Lauber, Ernst, to Maschinenfabrik Habegger AG. Tunnel driving machine. 3,446,535, 5-27-69, Cl. 299-31.
Lauber, William W.: *See—*
Scime, Marie J.; and Lauber, William W.,3,443,850.
Laubic, Michel: *See—*
Regnic, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel,3,457,263.
Regnier, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel,3,435,036.
Laubmeyer, Gunther; and Smits, Marius. Regenerating composition for soldering irons. 3,486,948, 12-30-69, Cl. 148-24.
Laucius, Joseph Francis; and Spiegler, Louis, du Pont de Nemours, E. I., and Company. Process for producing dinitrodiphenyl ethers. 3,422,154, 1-14-69, Cl. 260-612.
Lauck, John A., to Koehring Company, mesne. Pressure loaded gear pump. 3,474,736, 10-28-69, Cl. 103-126.
Lauck, Peter, III, 40% to Myers, Robert Holt. Electric blanket with a temperature responsive control circuit. 3,422,244, 1-14-69, Cl. 219-212.
Lauck, Petter, III, to Stevens, J. P., & Co., Inc., mesne. Electrical heating device with temperature control means. 3,437,792, 4-8-69, Cl. 219-505.
Lauckner, George E. Stabilizer for plumbing pipes. 3,481,571, 12-2-69, Cl. 248-57.
Laucks Laboratories, Inc.: *See—*
Preikschat, Fritz K.; and West, Howard W., 3,430,140.
Laudel, Arthur, Jr., to Alternac, Paririe Village, mesne Greenberg, William B. Electric generator and speed control system therefor. 3,435,325, 3-25-69, Cl. 322-15.
Laudenslager, Harry B., Jr.; and Hale, Everett W., to Blackstone Corporation. Cast ferrous material of high magnetic permeability. 3,445,299, 5-20-69, Cl. 148-31.55
Lauder, Gilbert L. Gunsight. 3,434,213, 3-25-69, Cl. 33-59.
Laudig, Ronald Clair; and Smith, Donald Lee, to AMP Incorporated. Shielded heater cable connection. 3,441,659, 4-29-69, Cl. 174-88.
Laudig, Ronald C.: *See—*
Stark, Frank B.; and Laudig, Ronald C.,3,475,545.
Laudise, Michael A., to Lubrizol Corporation, The. Novel epoxy curing agents. 3,454,669, 7-8-69, Cl. 260-830.
Laudise, Robert A.; and Marshall, David J., to Bell Telephone Laboratories, Incorporated. Hydrothermal growth of potassium tantalate- potassium niobate mixed crystals and material so produced. 3,440,025, 4-22-69, Cl. 23-301.
Laudise, Robert A.: *See—*
Kolb, Ernest D.; Laudise, Robert A.; Spencer, Edward G.; and Wood, Darwin L.,3,485,759.
Laue, Terry J.: *See—*
Triplett, Robert D.; Buck, Leo V.; and Laue, Terry J.,3,447,248.
Lauen, James E.: *See—*
Lauen, Marguerite M.; and Lauen, James E.,3,432,116.
Lauen, Marguerite M.; and Lauen, James E. Spool construction having a snap-off end portion. 3,432,116, 3-11-69, Cl. 242-118.7
Lauer, Ernst H., to Eaton Yale & Towne, Inc. Overmatching rotor to stator retarder arrangement to combat cavitation. 3,476,219, 11-4-69, Cl. 188-90.
Lauer, George E.: *See—*
Rock, Frank C., Jr., 3,480,141.
Lauer, Herbert, to Gesipa Gesellschaft fur Internationale Patentverwertung m.b.H. Clamping element for fastening clamping sectional shapes. 3,452,638, 7-1-69, Cl. 85-77.
Lauer, Jay M., to Analytic Systems Company. Gas analyzer. 3,429,796, 2-25-69, Cl. 204-195.
Lauer, Karl; Weber, Matthias; and Stoeck, Georg, to Boehringer, C. F., & Soehne GmbH. Method of recovering pure glucose and fructose from sucrose or from sucrose-containing invert sugars. 3,483,031, 12-9-69, Cl. 127-41.
Lauer, Randolph Mathias: *See—*
Bushell, Charles Herbert George; Hirsch, Horst Eberhard; and Lauer, Randolph Mathias,3,462,016.
Laufer, Louis; and Gutcho, Sidney, to Schwarz Bioresearch, Inc. Enzyme digestion of nucleic acids. 3,459,637, 8-5-69, Cl. 195-28.
Laufer, Robert J., to Consolidation Coal Company. Synthesis of bromothiophenols. 3,461,168, 8-12-69, Cl. 260-608.
Laufer, Robert J., to Consolidation Coal Company. Sulfurization of 2,6-di-tert-butylphenol. 3,479,407, 11-18-69, Cl. 260-608.
Laufer, Robert J.: *See—*
Kulik, Metro D.; and Laufer, Robert J.,3,461,175.
Laufer, Theodor Hugo: *See—*
Marchetti, Charles Joseph; and Laufer, Theodor Hugo,3,451,644.
Laufer, William. Medicine bottle with safety closure means. 3,430,795, 3-4-69, Cl. 215-2.
Lauffer, Donald K.: *See—*
Gunderson, Robert O.; and Lauffer, Donald K.,3,482,111.
Laug, Charles J.: *See—*
Rowekamp, William H.; and Laug, Charles J.,3,485,334.
Laugel, Roland L., to Ametek, Inc. Straight-line filter with water box. 3,468,424, 9-23-69, Cl. 210-401.
Laughlin, Charles R., Jr.; Hilton, Gay E.; Lavigne, Richard C.; and Hollenbaugh, Roger C., to United States of America, National Aeronautics and Space Administration. Position location and data collection system and method. 3,471,856, 10-7-69, Cl. 343-6.
Laughlin, Edith M.: *See—*
Laughlin, Evan D.; and Laughlin, Edith M.,3,434,590.
Laughlin, Evan D.; and Laughlin, Edith M. Spool and bobbin holder. 3,434,590, 3-25-69, Cl. 206-47.
Laughlin, John R.; and Soworowski, David R., to Park-Ohio Industries, Inc. Quenching device for an induction heating apparatus. 3,433,469, 3-18-69, Cl. 266-4.
Laughlin, Kenneth C., to Allied Chemical Corporation. Stabilized of solid polycaprolactam. 3,462,396, 8-19-69, Cl. 260-78.
Laughlin, Robert G.; and Berry, Jim S., to Procter & Gamble Company, The. Sulfonediimine compounds. 3,445,515, 5-20-69, Cl. 260-551.
Laughman, George J., to Bausch & Lomb, Incorporated. Control system for automatically locating the optical center and/or optical axis of an optical system or lens. 3,445,665, 5-20-69, Cl. 250-208.
Laughman, Ralph W., to Ex-Cell-O Corporation. Shaft mounting and sealing construction for rotary actuators. 3,426,654, 2-11-69, Cl. 92-125.
Lauher, Verlin A., to Monsanto Company. Display system. 3,474,438, 10-21-69, Cl. 340-324.
Laulan, Jean Michel, to Rhone-Poulenc S.A. Method of coating bodies by rotation. 3,459,578, 8-5-69, Cl. 117-18.
Lauler, Louis J.: *See—*
Thorsson, Matthew T.; and Lauler, Louis J.,3,432,744.
Lauliac, Jean, to Claude Paz et Visseaux. Potted equipment including a heat transfer device. 3,426,139, 2-4-69, Cl. 174-15.
Laumann, Edward F.; and Jacob, Harry J., Jr., to Warner & Swasey Company, The. Machine tool with tool changing mechanism. 3,449,822, 6-17-69, Cl. 29-568.
Laumen, Heinrich; Steinbrech, Hermann; and Lochbuhler, Udo, to American Enka Corporation. Apparatus for implementing placement of yarn packages onto elastic holding devices. 3,460,227, 8-12-69, Cl. 29-200.
Laun, Karl: *See—*
Pfeifer, Karl; Bretschneider, Gunther; Schwarz, Rudolf; and Laun, Karl,3,472,459.
Launay, Pierre, to Compagnie Industrielle de Travaux. Apparatus for prestressing concrete. 3,447,784, 6-3-69, Cl. 257-29.
Launder, Ernie L.: *See—*
Launder, Richard L.; Launder, Ernie L.; and Peveler, France D., 3,429,380.

Launder, Ernie L.: *See*—
Launder, Richard L.; Launder, Ernie L.; and Peveler, France D.,3,429,380.
Launder, James M., to Hupsi Corporation, The. Rotary weigher. 3,458,002, 7-29-69, Cl. 177-83.
Launder, James M., to HUPSI Corporation. Drinking valve. 3,466,007, 9-9-69, Cl. 251-145.
Launder, Richard L.; Launder, Ernie L.; and Peveler, France D., said Peveler assor to said Launder, Richard L., & Launder, Ernie L. Folding slope grader for bulldozers. 3,429,380, 2-25-69, Cl. 172-802.
Launder, Richard L.; and Peveler, France D., said Peveler assor. to said Launder. Slope grader for bulldozers. 3,429,381, 2-25-69, Cl. 172-802.
Launders of Indiana Inc.: *See*—
Lynn, William J.; and Loop, James P., 3,443,993.
Launer, Robert H. Floating seawall. 3,473,335, 10-21-69, Cl. 61-5.
Laupman, Robert Ronald, to N.V. Nederlandse Extrusie Maatschappij. Apparatus for tempering and cooling a web or strand of thermoplastic material comprising a plasticizer. 3,460,196, 8-12-69, Cl. 18-1.
Lauppe, Heinz; and Westphal, Dieter, to Danfoss A/S. Electromagnetic valve. 3,441,246, 4-29-69, Cl. 251-52.
Laupretre, Jean-Jacques, to Societe Industrielle Bull-General Electric (Societe Anonyme). Signalling circuit arrangement. 3,421,022, 1-7-69, Cl. 307-235.
Laure, George R., to W-L Molding Company, The. Plastic roller. 3,451,734, 6-24-69, Cl. 308-15.
Laurel, Ralph V., to Melroe Manufacturing Company, mesne. Vehicle with lift-off means for ease of steering. 3,444,583, 5-20-69, Cl. 15-340.
Laurell, Lars G.; and Mandt, Arne, to Allmanna Svenska Elektriska Aktiebolaget. Insulated high voltage conductor with potential gradient equalization means. 3,487,455, 12-30-69, Cl. 174-102.
Laurence, Leonard J.: *See*—
Comeau, George O.; Laurence, Leonard J.; and Ordway, Richard S.,3,466,683.
Laurent, Bernard J.: *See*—
Smith, John H.; and Laurent, Bernard J.,3,470,223.
Laurent, Bernard, to Cometa. Base for plug-in electric or electronic assemblies or sub-assemblies. 3,474,396, 10-21-69, Cl. 339-198.
Laurent, Francois, to Paillard S.A. Light intensity measuring device in the objective- lens of a filming apparatus. 3,463,929, 8-26-69, Cl. 250-216.
Laurent, Harold J.; and Iwaskiw, Lubomyr J., to Bendix Corporation, The. Push-pull amplifier with asymmetrical drive and load. 3,478,274, 11-11-69, Cl. 330-14.
Laurent, Pierre Gabriel, to Electricite de France (Service National). High-voltage power conversion assembly composed of a polyphase transformer combined with a plurality of sets of controlled rectifiers. 3,445,747, 5-20-69, Cl. 321-5.
Laurenty, Francois. Spray type flash evaporator. 3,434,522, 3-25-69, Cl. 159-3.
Laures, Pierre, to Compagnie Generale d'Electricite. Optical system with variable focal length. 3,464,760, 9-2-69, Cl. 350-40.
Lauria, Francesco: *See*—
Giraldi, Pier Nicola; Lauria, Francesco; Fojanesi, Alessandro; Nannini, Giuliano; and Logemann, Willy,3,458,533.
Lauria, Francesco; Giraldi, Pier Nicola; Francavilla, Pier Nicola; Nannini, Giuliano; and Logemann, Willy, to Erba, Carlo, S.p.A. Alpha-(5-indanyl)-butyric acid. 3,452,085, 6-24-69, Cl. 260-517.
Laurich, Stephen A., to Chevron Research Company. *p*-Xylene process. 3,467,724, 9-16-69, Cl. 260-674.
Lauridsen, Jens Birk: *See*—
Vrang, Carl; Krog, Niels; and Lauridsen, Jens Birk,3,479,189.
Laurie, Lee, Jr. Method and apparatus for etching printed circuit boards. 3,461,008, 8-12-69, Cl. 156-3.
Laurien, Gunter, to Kollmann, Wilfried. Depth measuring device. 3,477,132, 11-11-69, Cl. 33-126.6
Lauritsen, James L., 40% to Greene, Edna Mae. Air cooled side wall tire construction. 3,457,980, 7-29-69, Cl. 152-353.
Lauritzen, Peter O., to Fairchild Camera and Instrument Corporation. Transistor structure with steep impurity gradients having fast transition between the conducting and nonconducting state. 3,463,972, 8-26-69, Cl. 317-235.
Laurizio, Jeremiah, to American Flange & Manufacturing Co., Inc. Frangible plastic closure. 3,434,620, 3-25-69, Cl. 220-27.
Laurizio, Jeremiah, to American Flange & Manufacturing Co., Inc. Closure tear out panels. 3,458,080, 7-29-69, Cl. 220-27.
Laurizio, Jeremiah, to American Flange & Manufacturing Co., Inc. Vent closure assembly. 3,458,084, 7-29-69, Cl. 220-63.
Lauro, Anthony. Plastic hook and eye fastener apparatus. 3,426,400, 2-11-69, Cl. 24-225.
Laursen, Larry J.: *See*—
Shrum, William E.; and Laursen, Larry J.,3,439,869.
Laut, William. Method and apparatus for centrifugal separation. 3,464,554, 9-2-69, Cl. 210-78.
Lautenschlager, Walter: *See*—
Daumiller, Guenther; and Lautenschlager, Walter,3,428,710.
Lautenschlager, Walter; Srna, Christian; and Schuster, Ludwig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Reaction product of acrylate ester and butadiene polymer. 3,427,363, 2-11-69, Cl. 260-879.
Lauter, Charles A., Jr., to United States of America, Navy. Wind speed integration system for use with pulse- type anemometers. 3,452,593, 7-1-69, Cl. 73-194.
Lauterbach, Herbert G.: *See*—
Breen, Alvin L.; and Lauterbach, Herbert G.,3,421,194.
Lauterbach, Jerre F.: *See*—
Beyers, Marvin E.; Brown, Mackenzie P.; Carter, John W.; Junck, John A.; Lauterbach, Jerre F.; and Winters, Frank H.,3,463,190.
Lauterbach, Norman E.: *See*—
Bense, Roger; and Lauterbach, Norman E.,3,458,275.
Lauterbach, Norman E., to Sybron Corporation, mesne. Material handling container. 3,454,189, 7-8-69, Cl. 220-97.
Lauth, Corliss, to Multifastener Corporation, d/b/a Cast Forge Company. Method and apparatus for permanent mold casting. 3,472,308, 10-14-69, Cl. 164-71.
Lautin, Leon. Reinforced luggage handle and mounting member. 3,444,967, 5-20-69, Cl. 190-58.
Lautsch, Hermann. Automatic device for counterbalancing reaction forces of a bore mine machine. 3,437,377, 4-8-69, Cl. 299-1.
Lautsch, Hermann. Rotationally operating boring machines. 3,441,096, 4-29-69, Cl. 175-104.
Lautsch, Hermann; Jacob, Hans-Ludwig; Hermanns, Peter; and Hermanns, Klaus. Boring holes in rock. 3,467,210, 9-16-69, Cl. 175-386.
Lautzenhiser, Robert L.; and Michel, James D., to Hughes Aircraft Company. Tie-down apparatus. 3,478,995, 11-18-69, Cl. 248-361.
Laux, Friedrick Gunther. Pressing tool, specifically hand press. 3,475,946, 11-4-69, Cl. 72-409.
Laux, Hartmut, to Rox Lufttechnische Geratebau G.m.b.H. High pressure induction apparatus. 3,424,237, 1-28-69, Cl. 165-123.
Laux, Karl. Pulse valve, particularly for sprinkler plants. 3,485,263, 12-23-69, Cl. 137-408.
Laux, Monika, nee Loffler: *See*—
Loffler, Karl Nikolaus,3,471,295.
Laux, Servatius; and Stroder, Arno. Process for the production of stoneware drainage pipes. 3,487,140, 12-30-69, Cl. 264-154.
Lauze, Wilfrid L.: *See*—
Bluestein, Claire; Lauze, Wilfrid L.; and Bluestein, Bernard R.,3,428,564.
Lauzon, James Nelson; Sandner, Raymond J.; and Bildsoe, Jorgen S., to Taylor & Gaskin, Inc. Article spacer. 3,458,026, 7-29-69, Cl. 198-34.
Lauzon, William E. Combination layout and spotting apparatus. 3,421,226, 1-14-69, Cl. 33-189.
Lavacchia, Joseph E. Tray accessory for bathtubs. 3,444,564, 5-20-69, Cl. 4-185.
Lavack, Ronald M. Method for erecting swimming pools. 3,486,289, 12-30-69, Cl. 52-742.
Lavalier, James P., to Hart-Carter Company. Interruptible-jet control means for producing short blasts of high pressure fluid. 3,457,893, 7-29-69, Cl. 116-137.
Lavallee, Lawrence R., to Sylvania Electric Products, Inc. Limiter circuit. 3,465,170, 9-2-69, Cl. 307-237.
Lavallee, Nelson J. B., to Federal Weather Strips Inc. Method of making a tube having perforations through the wall thereof. 3,438,110, 4-15-69, Cl. 29-155.
LaVallee, Theodore R., to Eaton Yale & Towne, Inc. Control system for constant level flywheel energy bolster press. 3,437,856, 4-8-69, Cl. 310-94.
La Vallee, Theodore R., to Eaton Yale & Towne, Inc. Method of operating a press over a four-to-one range of stroking rates. 3,450,912, 6-17-69, Cl. 310-95.
LaVan, John F., to American Standard, Inc. Electrical heater. 3,476,916, 11-4-69, Cl. 219-552.
Lavash, John P., to General Electric Company. Fuel control systems. 3,420,055, 1-7-69, Cl. 60-39.28
Lavedan, Louis J., Jr.: *See*—
Brediger, James L.; Day, William B.; Lavedan, Louis J., Jr.; and Parks, Joe K.,3,431,515.
La Velle, Martin J. Closed combustion cycle for cement kilns. 3,466,351, 9-9-69, Cl. 263-53.
Lavengood, Thomas H., to Bendix Corporation, The. Method of making a universal joint. 3,434,196, 3-25-69, Cl. 29-437.
Lavenir, Jean Claude; and Agasse, Jean. System for the transmission and registration of telephone charges. 3,427,594, 2-11-69, Cl. 340-172.5
Laverty, Wayne H. Process of driving stakes. 3,437,156, 4-8-69, Cl. 173-1.
Lavery, Charles A.; and Meyer, Paul E., to Combustion Engineering, Inc. Means for dehydrating crude oil with hot water. 3,469,373, 9-30-69, Cl. 55-174.
Lavery, John R.: *See*—
Ritzert, John A.; and Lavery, John R.,3,456,117.
Lavey, John A.: *See*—
Kreider, Edward W.; and Lavey, John A.,3,479,994.

La Via, Anthony Laurence, to Squibb, E. R., & Sons, Inc. Cellulose containing denture adhesive. 3,440,065, 4-22-69, Cl. 106-35.
Lavigne, Joe B.; and Hughes, Mack F., to Chevron Research Company. Unsymmetrical dialkylbenzene mixtures. 3,422,161, 1-14-69, Cl. 260-668.
Lavigne, Joe B.; and Hughes, Mack F., to Chevron Research Company. Overbased dialkylbenzene sulfonates. 3,470,097, 9-30-69, Cl. 252-33.
Lavigne, Richard C.: *See—*
Laughlin, Charles R., Jr.; Hilton, Gay E.; Lavigne, Richard C.; and Hollenbaugh, Roger C.,3,471,856.
Lavigne, Vernon W.: *See—*
Bailey, James R.; and Lavigne, Vernon W.,3,433,906.
Lavigne, William J., Jr.; Osborne, William T.; and Anderson, Carl M., to Carrier Corporation. Pressure relief device. 3,443,572, 5-13-69, Cl. 137-70.
Lavin, Edward; Markhart, Albert H.; and Santer, James O., to Monsanto Company. Stable coating composition of a tricarboxylic acid or its partial or full ester and a diamine. 3,480,588, 11-25-69, Cl. 260-47.
Lavin, Edward; and Serlin, Irving, to Monsanto Company. Process for the preparation of a polyimide foam. 3,483,144, 12-9-69, Cl. 260-2.5
Lavin, Edward: *See—*
Fitzhugh, Andrew F.; Hunt, Charles F.; and Lavin, Edward,3,462,513.
Lavin, Thomas J., to Bendix Corporation, The. Resolver shaft angular velocity to pulse width converter. 3,460,130, 8-5-69, Cl. 340-347.
Lavine, Arthur A. Explosive arrangement for generating a mach stem to affect a line cut. 3,435,763, 4-1-69, Cl. 102-24.
Lavine, Arthur A. High speed photographic recorder. 3,449,758, 6-10-69, Cl. 346-107.
Lavine, Arthur Alfred. Dual ignition explosive arrangement. 3,447,463, 6-3-69, Cl. 102-67.
Lavine, Morris: *See—*
Davis, Glenn Gary; and Dahlin, Robert Walton, 3,431,916.
Laviron, Charles: *See—*
Darcas, Claude; Allirot, Rene; and Laviron, Charles,3,474,142.
Laviron, Charles; Darcas, Claude; and Allirot, Rene, to Ugine Kuhlmann. Process for the preparation of acrylamide and methacrylamide. 3,474,141, 10-21-69, Cl. 260-561.
Laviron, Edouard, to Commissariat a l'Energie Atomique. Time selectors, analysers or recorders, for electrical pulses which may follow one another at very short intervals. 3,438,004, 4-8-69, Cl. 340-172.5
Lavoie, John L., to Thiokol Chemical Corporation. Rocket thrust vectoring apparatus. 3,427,809, 2-18-69, Cl. 60-231.
Lavoie, Raymond E., Jr.: *See—*
Sharkey, John F.; and Lavoie, Raymond E., Jr.,3,433,203.
Lavond, Edward A. Automatic locking control for cutter bar. 3,430,423, 3-4-69, Cl. 56-249.
Lavoo, Norman T., to General Electric Company. Output circuits for microwave discharge devices. 3,437,949, 4-8-69, Cl. 330-53.
Law Blower Company,: *See—*
Gerlitz, Reuben A., 3,433,403.
Law, Derek A., to Mobil Oil Corporation. Novel boron esters and stabilization of oxidizable organic substances therewith. 3,442,807, 5-6-69, Cl. 252-46.3
Law, Derek A.: *See—*
Braid, Milton; and Law, Derek A.,3,445,391.
Law, Douglas Alexander: *See—*
Hill, Harold Taylor; and Law, Douglas Alexander,3,425,323.
Law, Harold C. Garden hose nozzle positioner. 3,441,222, 4-29-69, Cl. 239-280.5
Law, Harry D., to Miles Laboratories Inc. Test composition and process for detecting organic polyhalogen compounds. 3,472,626, 10-14-69, Cl. 23-230.
Law, James B.: *See—*
Fulgenzi, Crescenzo F.; Law, James B.; and Lerch, Peter A.,3,467,171.
Law, John, to Carrier Corporation. Gas compression systems. 3,424,370, 1-28-69, Cl. 230-5.
Law, John, to Carrier Corporation. Magnetic drive pump for use in refrigeration systems. 3,429,137, 2-25-69, Cl. 62-141.
Law, John, to Carrier Corporation. Magnetic coupling with slip detection means. 3,470,406, 9-30-69, Cl. 310-95.
Law, K. J., Engineers, Inc.: *See—*
Law, Kenneth J.; and Brown, Gordon R., 3,434,048.
Law, Kenneth J.; and Brown, Gordon R., to Law, K. J., Engineers, Inc. Eddy current apparatus for testing the hardness of a ferromagnetic material. 3,434,048, 3-18-69, Cl. 324-34.
Law, Marvin A., to Fieldcrest Mills, Inc. Method of modifying the appearance of a pile fabric. 3,422,512, 1-21-69, Cl. 26-16.
Law, Russell R., to Hughes Aircraft Company. Narrow-band television. 3,423,526, 1-21-69, Cl. 178-6.8
Law, Russell R., to Hughes Aircraft Company. Magnetic recording of a variable slope pulse modulated signal. 3,449,757, 6-10-69, Cl. 346-74.
Law, Russell R., to Hughes Aircraft Company. TV bandwidth reduction. 3,463,876, 8-26-69, Cl. 178-6.
Law, William E.: *See—*
Hanford, William E.; and Law, William E.,3,480,967.
Lawalin, Harold L.; and Skirvin, Kenneth. Chip removing assembly. 3,430,767, 3-4-69, Cl. 210-79.
Lawalin, Harold L.; and Skirvin, Kenneth. Bird feed package converted feeder. 3,441,002, 4-29-69, Cl. 119-52.
Lawes, Bernard C., to Du Pont de Nemours, E. I., and Company. Polyvinyl alcohol foams and compositions for making the same. 3,481,886, 12-2-69, Cl. 260-2.5
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor, to Arlside Limited. Reprographic apparatus. 3,471,882, 10-14-69, Cl. 15-1.
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor, to Arside Limited. Reprographic apparatus. 3,480,359, 11-25-69, Cl. 355-3.
Lawhorn, Charles L. Pistol dispenser for fluent material. 3,443,725, 5-13-69, Cl. 222-79.
Lawler Automatic Controls, Inc.: *See—*
Costantini, Adelmo, 3,485,371.
Lawler, Jack: *See—*
Bidelman, Bruce B.; Maurer, Max L.; Lawler, Jack; and Millard, George R.,3,462,143.
Lawler, James R. Roll forming apparatus. 3,475,937, 11-4-69, Cl. 72-181.
Lawless, Frederick W.: *See—*
Garry, Gerald A.; Kostuch, Donald J.; Lawless, Frederick W.; and Malaby, Davey L.,3,458,688.
Lawless, Merritt B. Automatic emergency signaling system for a vehicle. 3,434,106, 3-18-69, Cl. 340-55.
Lawless, William J., to Bell Telephone Laboratories, Incorporated. Multiple counter stage using coincidence gates to coordinate input signals and feedback signals within the stage. 3,479,524, 11-18-69, Cl. 307-222.
Lawless, William N., to Corning Glass Works. Paraelectric refrigeration method and apparatus. 3,436,924, 4-8-69, Cl. 62-3.
Lawless, Winston F.: *See—*
Perkins, Bernard C., 3,421,494.
Lawley, Charles F. Mounting of gun barrel and action assembly in gun stock. 3,439,441, 4-22-69, Cl. 42-75.
Lawley, Clyde M. Heat removal process. 3,427,814, 2-18-69, Cl. 62-48.
Lawley, Kenneth L.: *See—*
Klein, Donald L.; and Lawley, Kenneth L.,3,424,954.
Lawlor, Robert E., to Electro-Clamp Corporation. Electrical connector of integral sheet metal construction. 3,477,060, 11-4-69, Cl. 339-266.
Lawman, William E., to Welinlok Limited. Structural elements to form racks. 3,468,430, 9-23-69, Cl. 211-182.
Lawn, Francis, to Rowan Industries, Inc. Thyristor firing circuit. 3,462,671, 8-19-69, Cl. 321-18.
Lawn-A Mat Chemical and Equipment Corporation: *See—*
Dorfman, Daniel, 3,463,360.
Lawrance, Paul Anthony; and Burbidge, Bernard Whiting, to British Petroleum Company Limited, The. Reactivation of catalysts. 3,440,178, 4-22-69, Cl. 252-415.
Lawrence & Schild, Ltd.: *See—*
Lawrence, Frank L., 3,436,986.
Lawrence, Frank L., 3,458,153.
Lawrence, Benjamin; and Morris, Frank G., Jr., to Procter & Gamble Company, The. Casserole composition. 3,484,251, 12-16-69, Cl. 99-85.
Lawrence, Beverlee: *See—*
Corbin, Barney G.; Sender, David S.; and Lawrence, Beverlee,3,474,788.
Lawrence Brothers, Inc.: *See—*
Foltz, Robert E., 3,431,585.
Foltz, Robert E., 3,433,518.
Foltz, Robert E., 3,436,047.
Foltz, Robert E., 3,465,380.
Foltz, Robert E., 3,468,509.
Foltz, Robert E., 3,475,784.
McNinch, Delmar D., 3,479,682.
Lawrence, Charles T., to Textron Inc., mesne. Slide fastener. 3,466,713, 9-16-69, Cl. 24-205.1
Lawrence, Don D. Plastic practice bowling ball with selectable covered finger holes. 3,423,088, 1-21-69, Cl. 273-63.
Lawrence, Doyle M. Formation injecting and testing apparatus for wells. 3,424,243, 1-28-69, Cl. 166-100.
Lawrence, Forby W. Brush and tree cutter. 3,483,905, 12-16-69, Cl. 144-251.
Lawrence, Frank L., to Lawrence & Schild, Ltd. Clutch-controlled, two-speed, power-transmitting mechanism. 3,436,986, 4-8-69, Cl. 74-768.
Lawrence, Frank L., to Lawrence & Schild Ltd. Level-wind structure. 3,458,153, 7-29-69, Cl. 242-158.
Lawrence, Frank W., to National Screw & Manufacturing Company, The. Blind fastener for sandwich panel and method. 3,434,262, 3-25-69, Cl. 52-617.
Lawrence, Franklin B.: *See—*
Tanaka, Frederick K.; Lawrence, Franklin B.; and Riddle, John B.,3,447,655.

Lawrence, Franklin I. L.; and Pohorilla, Michael J., to Kendall Refining Company. Organic suspending medium and composition. 3,455,823, 7-15-69, Cl. 252-25.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., to Kendall Refining Company. Oleaginous compositions. 3,455,825, 7-15-69, Cl. 252-28.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., to Kendall Refining Company. Organic suspending medium and composition. 3,455,828, 7-15-69, Cl. 252-31.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., to Kendall Refining Company. Organic suspending medium and composition. 3,455,829, 7-15-69, Cl. 252-31.
Lawrence, Franklin I. L.; and Pohorilla, Michael J., to Kendall Refining Company. Co-sulfur condensed petroleum traction and a reactive monomer composition. 3,455,830, 7-15-69, Cl. 252-48.6
Lawrence, Franklin I. L.; and Pohorilla, Michael J., to Kendall Refining Company, a division of Witco Chemical Company. Co-oxygen condensed petroleum hydrocarbon and reactive monomer compositions. 3,455,833, 7-15-69, Cl. 252-55.
Lawrence, Franlin I. L.; and Pohorilla, Michael J., to Kendall Refining Company. Organic suspending medium and composition. 3,455,824, 7-15-69, Cl. 252-25.
Lawrence, Geoffrey L., to Zenith Carburetter Company Limited, The. Fuel-air mixture intake systems for internal combustion engines. 3,444,848, 5-20-69, Cl. 123-122.
Lawrence, Geoffrey Lloyd, to Zenith Carburetter Company Limited, The. Carburetters. 3,456,929, 7-22-69, Cl. 261-44.
Lawrence, Henry C.: *See*—
Prescott, William Benjamin; and Lawrence, Henry C.,3,459,480.
Lawrence, Ivan Charles; and Rhodes, John Kenneth, to Rolls-Royce Limited. Gearing having tooth pressure distribution means. 3,463,031, 8-26-69, Cl. 74-410.
Lawrence J Richard: *See*—
Kenney, James C.; and Lawrence J Richard,3,438,753.
Lawrence, James C., to Ingersoll-Rand Company. Roller cutter for rotary drilling apparatus. 3,430,718, 3-4-69, Cl. 175-343.
Lawrence, James C., to Alkirk, Inc. Steering method and apparatus. 3,437,380, 4-8-69, Cl. 299-10.
Lawrence, James Clifton; and Hamilton, William Hauth, to Alkirk, Inc. Earth boring apparatus. 3,485,309, 12-23-69, Cl. 175-230.
Lawrence, James F., Jr. Adjustment knob for electric device. 3,430,515, 3-4-69, Cl. 74-527.
Lawrence, Jerome G.: *See*—
Chiola, Vincent; and Lawrence, Jerome G.,3,446,575.
Lawrence, John A., to Bunker-Ramo Corporation, The, mesne. Semiconductor switch circuit. 3,458,725, 7-29-69, Cl. 307-249.
Lawrence, Joseph Benton, to Brown & Root, Inc. Method and apparatus for controlling pipeline laying operations. 3,472,034, 10-14-69, Cl. 61-72.3
Lawrence, Lamonte H., to Motorola, Inc. Noise diode having an alloy zener junction. 3,457,469, 7-22-69, Cl. 317-234.
Lawrence Manufacturing Company: *See*—
Hamilton, William H.; and Allyn, Richard J., 3,486,572.
Lawrence, Owen Napier, to Lucas, Joseph, (Industries) Limited. Fuel systems for gas turbine engines. 3,427,804, 2-18-69, Cl. 60-39.28
Lawrence, Owen Napier, to Lucas, Joseph (Industries) Limited. Devices for translating forces. 3,430,513, 3-4-69, Cl. 74-519.
Lawrence, Owen Napier, to Lucas, Joseph, (Industries) Limited. Devices for translating forces. 3,465,643, 9-9-69, Cl. 91-47.
Lawrence, Philip L., to Mobil Oil Corporation. Seismic wavelength filtering in optical data processing. 3,435,411, 3-25-69, Cl. 340-15.5
Lawrence, Ray V.: *See*—
Schuller, Walter H.; and Lawrence, Ray V.,3,463,769.
Lawrence, Raymond Edward; and Witherow, Lawrence R., to Eastman Kodak Company. Device for opening plastic film cartridges. 3,429,042, 2-25-69, Cl. 30-11.
Lawrence, Robert C., Jr. Spray nozzle. 3,447,756, 6-3-69, Cl. 239-594.
Lawrence, Robert, III, to Heinicke Instruments Co. Cleaning apparatus. 3,438,583, 4-15-69, Cl. 239-305.
Lawrence, Robert W., to Hercules Incorporated. Nonaqueous inorganic oxidizer salt blasting compositions containing silicon component of particular size. 3,455,750, 7-15-69, Cl. 149-21.
Lawrence, Robert, to Bunker-Ramo Corporation, The. Electrical connector. 3,470,522, 9-30-69, Cl. 339-14.
Lawrence, Roland B.; and Harnack, George H., to Deutsch Company Electronic Component Division, The. Feed-through terminal junction. 3,449,708, 6-10-69, Cl. 339-198.
Lawrence, Sidney J. Music-note indicating device. 3,429,216, 2-25-69, Cl. 84-471.
Lawrence, Sidney J. Music-note indicator. 3,429,217, 2-25-69, Cl. 84-471.
Lawrence, Sidney R. Holder for paper cups and the like. 3,481,639, 12-2-69, Cl. 294-31.2
Lawrence, Thomas R.: *See*—
Wieting, Terence J.; Lawrence, Thomas R.; and Naiman, Charles S.,3,421,374.
Lawrence, William H.: *See*—
Gerlach, Richard K.; and Lawrence, William H.,3,480,936.
Lawrence, Willis Thompson, to Hooker Chemical Corporation, mesne. Method and apparatus for the prevention of knocks in steam coils. 3,438,429, 4-15-69, Cl. 165-1.
Lawrence, Willis Thompson, to Hooker Chemical Corporation, mesne. Thermal convection condenser and method of use. 3,448,792, 6-10-69, Cl. 165-1.
Lawrence, Willis Thompson, to Hooker Chemical Corporation, mesne. Heat storage heat exchanger. 3,452,720, 7-1-69, Cl. 122-32.
Lawrence, Willis Thompson, to Comstock & Wescott, Inc. Vapor generator. 3,485,216, 12-23-69, Cl. 122-33.
Lawrence, Willis Thompson; and Webb, George Warren, to Hooker Chemical Corporation. Electrical apparatus for storing and releasing heat. 3,475,596, 10-28-69, Cl. 219-530.
Lawrenson, Jack, to Pilkington Brothers Limited. Apparatus for the manufacture of float glass utilizing buoyant depressible barrier means. 3,485,617, 12-23-69, Cl. 65-182.
Lawrenson, Jack: *See*—
Robinson, Albert Sidney; and Lawrenson, Jack,3,468,653.
Robinson, Albert Sidney; and Lawrenson, Jack,3,479,171.
Lawrenson, Peter John, to National Research Development Corporation. Dynamo-electric machines of the reluctance type. 3,448,310, 6-3-69, Cl. 310-162.
Lawrenson, Thomas; and Brinsley, Alfred Richard, to British Insulated Callender's Cables Limited. Method and apparatus for the manufacture of electric conductors. 3,460,334, 8-12-69, Cl. 57-10.
Lawrie, Donald; and Findlay, Campbell, to Singer Company, The. Hinge for sewing machines. 3,465,381, 9-9-69, Cl. 16-142.
Lawrie, William David, to Girling Limited. Brake control systems. 3,473,850, 10-21-69, Cl. 303-21.
Lawrie, William N., Jr., to Burroughs Corporation. Threshold biased control circuit for trailing edge triggered flip flops. 3,435,257, 3-25-69, Cl. 307-289.
Laws, Cecil E., to National Lead Company. Line tension sensor. 3,436,962, 4-8-69, Cl. 73-143.
Laws, William Robert; Holt, Henry Christopher; and Salter, Frank Michael, to British Iron and Steel Research Association, The. Furnace. 3,469,827, 9-30-69, Cl. 263-6.
Lawson, Bobby L., to Phillips Petroleum Company. Permeability logging with radioactive isotopes having high and low energy gamma rays. 3,424,903, 1-28-69, Cl. 250-83.3
Lawson, Gustaf R., to Circle F Industries, Inc. Potentiometer. 3,464,050, 8-26-69, Cl. 338-89.
Lawson, John B. Spinnaker pole. 3,464,379, 9-2-69, Cl. 114-102.
Lawson, John B., to Robison Rayon Company, Inc. Yarn furnisher for winding machines. 3,480,218, 11-25-69, Cl. 242-45.
Lawson, John E., Jr., to Esso Research and Engineering Company. Retorting of oil shale. 3,440,162, 4-22-69, Cl. 208-11.
Lawson, Joseph M. Pump operating unit. 3,482,399, 12-9-69, Cl. 60-52.
Lawson, Kenneth Thomas; and Ascough, Keith Judge, to Head, Wrightson and Company, Limited. Apparatus for coating continuously moving strip material with powder. 3,426,730, 2-11-69, Cl. 118-636.
Lawson, Maurice O., to United States of America, Air Force. Electrofluid-dynamic generator. 3,476,959, 11-4-69, Cl. 310-10.
Lawson, Maurice O.: *See*—
von Ohain, Hans J. P.; Wattendorf, Frank L.; and Lawson, Maurice O.,3,439,197.
Lawson, Ronald N.: *See*—
Carnevale, Edmund H.; Lynnworth, Lawrence C.; and Lawson, Ronald N.,3,425,064.
Lawson, William J., to Case, J. I., Company. Portable remote control console. 3,482,164, 12-2-69, Cl. 325-21.
Lawson, William Manford: *See*—
Wojcik, Gerald Edward; and Lawson, William Manford,3,486,872.
Lawson, William P.: *See*—
Ogden, Ralph P.; and Lawson, William P.,3,444,352.
Ogden, Ralph P.; and Lawson, William P.,3,469,067.
Lawson, William P., to Ogden Engineering Corporation. Flux recovery device. 3,421,666, 1-14-69, Cl. 222-442.
Lawson, William P., to Ogden Engineering Corporation. Cable cart arrangement. 3,446,159, 5-27-69, Cl. 104-178.
Lawter Chemicals, Inc.: *See*—
Voedisch, Robert W., 3,429,825.
Voedisch, Robert W.; and de Pelichy, Reginald, 3,455,856.
Lawter, Raymond L., to Dura Corporation, mesne. Reclamation of liquids used in vehicle washing. 3,447,545, 6-3-69, Cl. 134-101.
Lawther, James M.: *See*—
Bringman, Joseph M.; Lawther, James M.; and Kendig, Paul M.,3,435,409.
Lawton, Donald C. Pull type exercising device. 3,446,503, 5-27-69, Cl. 272-79.
Lawton, Emil A.; and Rogers, Howard H., to North American Rockwell Corporation. Electrolytic process for preparation of chlorine pentafluoride. 3,454,476, 7-8-69, Cl. 204-59.
Lawton, Emil A.; and Weber, John Q., to North American Rockwell Corporation. Method of preparing difluoramine and preparing tetrafluorohydrazine therefrom. 3,433,595, 3-18-69, Cl. 23-205.

Lawton, Kenneth C.: *See—*
Grolman, Bernard; and Lawton, Kenneth C.,3,460,887.
Lay, Norman W. Rural mailbox signals. 3,426,966, 2-11-69, Cl. 232-35.
Layendecker, Thomas P., to Thiokol Chemical Corporation. Apparatus for pressurizing rocket motor propellant tanks. 3,425,217, 2-4-69, Cl. 60-39.48
Layfield, James David; and Slingerland, Lyle Robert, to Air Preheater Company, Inc., The. Anticavitation device. 3,481,114, 12-2-69, Cl. 55-159.
Layman, Curtis A.: *See—*
Humphrey, Loren K.; Dunning, Robert A.; and Layman, Curtis A.,3,423,040.
Layman, Ralph Earl, to American Cyanamid Company. Polymeric composition and process of preparing the. 3,429,857, 2-25-69, Cl. 260-78.5
Layne & Bowler, Inc.: *See—*
Jones, Byford A., 3,428,128.
Layne & Bowler Pump Company: *See—*
Dicmas, John L., 3,476,038.
Layne, Douglas K., to Dow Corning Corporation. Treatment of glass with silsesquioxanes to improve durability of subsequent silicone treatments to washing. 3,445,267, 5-20-69, Cl. 117-72.
Layne, Douglas K.; Northrup, Hal J.; and Weber, Carl D., to Dow Corning Corporation. Controlled release agents. 3,445,417, 5-20-69, Cl. 260-33.6
Layne, Gilbert S.: *See—*
Huml, James O.; and Layne, Gilbert S.,3,477,812.
Layne, Gilbert S.; and Huml, James O., to Dow Chemical Company, The. Method of producing flake graphite. 3,438,731, 4-15-69, Cl. 23-209.1
Layne-New York Company, Inc.: *See—*
Reinhold, Richard H., 3,469,405.
Layton, Beryl W.; and Dunham, Robert W., to Square D Company. Molded-case circuit breaker with manual tripping means externally accessible only by a tool. 3,480,890, 11-25-69, Cl. 335-23.
Lazaga, Francisco F. Washing machine to use impact of solid materials and solid recollecting ejector. 3,425,078, 2-4-69, Cl. 15-3.
Lazar, Edward. Pocket type retractable plumb-bob and casing. 3,478,438, 11-18-69, Cl. 33-217.
Lazar, Emery C.: *See—*
Fuhrmann, Robert; Sifniades, Stylianos; and Lazar, Emery C.,3,464,905.
Lazar, Jeffrey M., to Honeywell Inc. Fluidic fuel control system. 3,463,176, 8-26-69, Cl. 137-36.
Lazar, Jeffrey M., to Honeywell Inc. Control systems. 3,468,220, 9-23-69, Cl. 91-3.
Lazar, Joseph D.: *See—*
McSherry, Thomas W., 3,467,114.
Lazar, Sheldon: *See—*
Damato, Daniel A.; Lazar, Sheldon; and Zittler, Richard B.,3,449,873.
Lazarchick, Nicholas, Jr.: *See—*
Carlock, Frank R.; Kippenhan, B. William; Lamoureux, William R.; and Lazarchick, Nicholas, Jr.,3,435,278.
Lazarchick, Nicholas, Jr.; and Pearson, Kenneth A., to International Business Machines Corporation. Proportionalized velocity deflection system. 3,473,078, 10-14-69, Cl. 315-18.
Lazareff, Michel: *See—*
Havette, Claude; Lazareff, Michel; and Soulez-Lariviere, Jean,3,447,741.
Lazarewicz, Lucian M., to United Aircraft Corporation. Control means for a vapor generator. 3,487,465, 12-30-69, Cl. 122-451.
Lazaridis, Lazaros J., to Thermo Electron Corporation. Thermionic power and heat source. 3,460,524, 8-12-69, Cl. 126-110.
Lazaridis, Lazaros J.; and Veigel, Neil D., to Thermo Electron Engineering Corporation. Fabrication of structures for use at high temperatures. 3,485,296, 12-23-69, Cl. 165-105.
Lazaro, Anton. Electroplating barrel. 3,421,992, 1-14-69, Cl. 204-213.
Lazaro, Anton. Electroplating barrel. 3,421,993, 1-14-69, Cl. 204-213.
Lazaro, Bernard J. Apparatus for applying asphalt to form a paved surface. 3,456,566, 7-22-69, Cl. 94-44.
Lazaro, Miguel: *See—*
Calvin, Yolanda; and Lazaro, Miguel,3,453,668.
Lazaros, Anthony M. Method and apparatus for purifying gases. 3,442,603, 5-6-69, Cl. 23-2.
Lazarus, Allan K., to FMC Corporation. Hydroxy containing phosphoric acid esters and process for producing same. 3,487,130, 12-30-69, Cl. 260-953.
Lazarus and Peyser Associates: *See—*
Lazarus, Harry J., 3,435,905.
Lazarus, Harry J., to Lazarus and Peyser Associates. Tool and method of manufacturing the same. 3,435,905, 4-1-69, Cl. 173-163.
Lazarus, Stanley D., to Allied Chemical Corporation. Process for the production of polyethylene terephthalate free of objectionable coloration. 3,451,971, 6-24-69, Cl. 260-75.
Lazarus, Stanley D.; and Christensen, Poul N., to Allied Chemical Corporation. Process for preparing polyesters with antimony catalysts. 3,484,410, 12-16-69, Cl. 260-75.
Lazecki, Stanislaw V., to United Aircraft Corporation. Apparatus for providing a digital average of a plurality of analogue input samples. 3,441,720, 4-29-69, Cl. 235-150.5
Lazenby, John Kevin: *See—*
Eardley, Stephen; Gregory, Gordon Ian; Lazenby, John Kevin; and Long, Alan Gibson,3,479,350.
Lazerte, James D.: *See—*
Guenthner, Richard A.; and Lazerte, James D.,3,484,281.
Lazerus, Stanley: *See—*
Jensen, William Paul; and Lazerus, Stanley,3,421,984.
Lazinsky, Irvin L. Lawn edging strip. 3,484,989, 12-23-69, Cl. 47-33.
Lazy Eight Inc., The:*See—*
Hanmer, Richard Alan, 3,431,673.
Hanmer, Richard Alan, 3,453,814.
Hanmer, Richard Alan, 3,474,565.
Lazzari, Ettore: *See—*
Lancini, Giancarlo; and Lazzari, Ettore,3,420,842.
Lancini, Giancarlo; and Lazzari, Ettore,3,450,709.
Lea, Eugene D.: *See—*
Bracken, Robert C.; and Lea, Eugene D.,3,470,069.
Lea, Frank, to British Insulated Callender's Cables Limited. Apparatus for handling wire and other filamentary material. 3,429,114, 2-25-69, Cl. 57-34.
Lea, James M.: *See—*
Tam, Thomas K.; and Lea, James M.,3,468,345.
Lea, Kenneth Ellis: *See—*
Henshaw, John Anthony; and Lea, Kenneth Ellis,3,421,382.
Lea, Wendell H. Constant torque transmission. 3,459,056, 8-5-69, Cl. 74-32.
Lea-Ronal, Inc.: *See—*
Ostrow, Barnet D.; and Nobel, Fred I., 3,429,789.
Leach, Arthur, to MacWhyte Company. Steel cable-laid body. 3,475,897, 11-4-69, Cl. 57-144.
Leach, Byron E.,: *See—*
Leach, Byron E., 3,421,981.
Leach, Byron E., to Leach, Byron E., Hibbs, Richard G., Mobille, George T. Klein, William R., mesne. Production of therapeutic and prophylactic agent for upper respiratory infections. 3,421,981, 1-14-69, Cl. 195-80.
Leach, Charles Christopher; and Williams, Ralph Lee, to Williams, Ralph L., d.b.a. Lectro Engineering Company, mesne. Apparatus for treating the surface of plastic bottles with an electrical spark discharge. 3,428,801, 2-18-69, Cl. 250-49.5
Leach Corporation: *See—*
Adams, Andrew O.; Nelsen, Marvin G.; Tapp, David J.; and Schuessler, John C., 3,484,729.
Boyer, George Wesley, 3,430,879.
Cass, Ralph Sidney, 3,447,729.
Leach, Edward E.: *See—*
Hervig, Harold C.; and Leach, Edward E.,3,446,741.
Leach, Harold H.; and Alford, Andrew. Apparatus for unequal power division exhibiting hybrid properties. 3,467,919, 9-16-69, Cl. 333-9.
Leach, Harry S.; and Slate, Johnny L., to Monsanto Company. Alcohol purification process. 3,466,340, 9-9-69, Cl. 260-643.
Leach, Hugh K.; Taylor, Robert W.; and De Waters, Terry L., to Rockwell Manufacturing Company. Tool. 3,457,796, 7-29-69, Cl. 74-50.
Leach, Jack, to Burlington Industries, Inc. Tubeless tire having improved chafer fabric. 3,460,599, 8-12-69, Cl. 152-362.
Leach, James A. Football blocking sled. 3,425,692, 2-4-69, Cl. 273-55.
Leach, John M. Material handling conveyors. 3,433,349, 3-18-69, Cl. 198-177.
Leach, John M. Article handling conveyors. 3,451,527, 6-24-69, Cl. 198-127.
Leach, John M. Conveying systems. 3,481,449, 12-2-69, Cl. 198-153.
Leach, Pembroke O.; Jackson, William P.; and Camp, Vernon W., to Combustion Engineering, Inc. Back-up shoe for moving-tube solid panel welder. 3,423,563, 1-21-69, Cl. 219-124.
Leach, Robert D., to Westinghouse Electric Corporation. Electrical connector with a locking wedge. 3,430,188, 2-25-69, Cl. 339-128.
Leach, Robert O., to Pan American Petroleum Corporation. Foams in enriched gas drives. 3,460,623, 8-12-69, Cl. 166-273.
Leadbeater, Howard W.: *See—*
Leonard, William L.; and Leadbeater, Howard W.,3,441,287.
Leadbeter, Willard S.: *See—*
Nerwin, Henry Norman, Jr.; Leadbeter, Willard S.; and Hilten, John S.,3,445,289.
Leadbetter, Horace F. Angling lures. 3,440,756, 4-29-69, Cl. 43-42.06
Leadbetter, Horace F. Book indexes. 3,473,827, 10-21-69, Cl. 283-36.
Leader, Victor. Grass catcher bag. 3,423,917, 1-28-69, Cl. 56-202.

Leadley, Bertram M. Transporting vehicles with expandable bodies and self-carried overhead crane equipment. 3,482,716, 12-9-69, Cl. 214-75.
Leadley, Louis Hall. Card game bid indicator. 3,467,382, 9-16-69, Cl. 273-148.
Leadore, Toney E.: *See—*
Berlin, A Samuel; Little, Vincent C.; Leadore, Toney E.; and Reid, Edwin J., Jr.,3,434,421.
Leafe, Edward Levi: *See—*
Brookes, Robert Frederick; Godson, David Henry; and Leafe, Edward Levi,3,439,018.
Leafer, Robert M.: *See—*
Grant, Dwight W.; and Leafer, Robert M.,3,471,815.
Leahy, Joseph E. Sun bathing device. 3,475,050, 10-28-69, Cl. 297-17.
Leake, Preston H.; and Cogbill, Everett C., to American Tobacco Company, The. Tobacco smoke filter element. 3,428,049, 2-18-69, Cl. 131-10.1
Leaman, Harold E., to Owens-Corning Fiberglas Corporation. Apparatus for the production of glass fibers. 3,468,644, 9-23-69, Cl. 65-12.
Leaman, Theodore R.: *See—*
Garber, John A.; Leaman, Theodore R.; and Skelly, David C.,3,421,749.
Leaman, Wilbur K., to Mobil Oil Corporation. Catalytic hydrocracking process and steam regeneration of catalyst to produce hydrogen. 3,433,732, 3-18-69, Cl. 208-111.
Leane, John Bryant: *See—*
Parker, Leslie Kearton; and Leane, John Bryant,3,423,670.
Leanza, William J.: *See—*
Christensen, Burton G.; Leanza, William J.; and Rasmusson, Gary H.,3,442,938.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J.,3,453,265.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J.,3,454,557.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J.,3,479,401.
Lear Jet Corporation: *See—*
Auld, Samuel H., 3,482,792.
Lear Jet Industries, Inc.: *See—*
Lear, William P., 3,423,052.
Lear, William P.; and Auld, Samuel H., 3,437,762.
Lear, William P.; and Auld, Samuel H., 3,478,973.
Ve Nard, Dan L., 3,477,010.
Lear Siegler, Inc.: *See—*
Abend, Irving J., 3,484,697.
Bannister, George I., 3,449,027.
Bannister, George Irving, 3,422,520.
Bassoff, Arthur B., 3,429,195.
Blanding, Leonard C.; Meyer, Hans J.; and Liebler, Kenneth A., 3,433,538.
Burns, Vernon J., 3,455,172.
Caggia, Vincent P., 3,453,883.
Campbell, William H., 3,462,190.
Carpenter, Warren E., 3,462,662.
Christiansen, Paul; and Amato, Carmelo J., 3,467,850.
Curtland, Floyd E., 3,476,330.
Daniel, David W., 3,443,478.
Daniel, David W., 3,451,111.
Davidson, Robert R., 3,473,476.
Downs, William T.; and Homier, Robert I., 3,427,073.
Downs, William T., 3,451,020.
Ellis, James N., 3,444,405.
Fischer, Joachim W., 3,448,623.
Franken, Peter A.; Cross, Lee A.; and Cross, Lloyd G., 3,463,591.
Gail, Stewart E., 3,466,478.
Hampton, Edward L., 3,424,423.
Heine, Otto R., 3,441,936.
Hokanson, Carl G., Sr.; and Evans, Richard A., 3,481,322.
Homier, Robert I., 3,437,302.
Homier, Robert I.; Posh, Raymond C.; and Downs, William T., 3,471,198.
Joyce, James E., 3,481,177.
Kazmarek, Edward, 3,434,342.
Kazmarek, Edward, 3,438,306.
Kline, Raymond V.; and Bross, Ronald A., 3,436,596.
Knapp, Emil P., 3,435,675.
Knapp, Emil P., 3,478,593.
Kramer, Kenneth C.; and Archibald, Don M., 3,467,344.
Lent, Worthington C., 3,483,336.
Linker, John T., 3,478,857.
Miller, Lloyd G., 3,426,576.
Motz, Carl H.; and Anthony, Russel W., 3,461,526.
Osborn, Fredrick W., 3,435,317.
Posh, Raymnd C., 3,449,971.
Posh, Raymond C., 3,460,793.
Punt, William, 3,426,577.
Reising, Paul L., 3,481,172.
Robson, Arthur M., 3,446,181.
Schutz, Erich H., 3,422,468.
Simons, John B., 3,476,156.
Surletta, Zygmunt M.; Ockershauser, Karl F.; and Koziatek, Jerry P., 3,451,073.
Lear, William P., to Lear Jet Industries, Inc. De-icing apparatus. 3,423,052, 1-21-69, Cl. 244-134.
Lear, William P.; and Auld, Samuel H., to Lear Jet Industries, Inc. Multi-track tape cartridge player. 3,437,762, 4-8-69, Cl. 179-100.2
Lear, William P.; and Auld, Samuel H., to Lear Jet Industries, Inc. Compact player for magnetic tape cartridges. 3,478,973, 11-18-69, Cl. 242-55.19
Learmont, Tom, to Bucyrus-Erie Company. Power shovel. 3,452,890, 7-1-69, Cl. 214-138.
Learmont, Tom: *See—*
Willgrubs, Theodore M.; Smith, William H.; and Learmont, Tom,3,425,574.
Learn, Arthur J.: *See—*
Spriggs, Rueben S.; Learn, Arthur J.; and Scott-Monck, John A.,3,465,428.
Learney, Lewis Philip; and Rogers, Ernest William, to Communications Patents Limited. Low leakage inductance transformer for conductive parallel plate balanced transmission lines. 3,451,013, 6-17-69, Cl. 333-25.
Leary, Gordon H. Vibration controlling mounting apparatus. 3,425,652, 2-4-69, Cl. 248-22.
Leary, James C., to United States of America, Navy, mesne. Wide band frequency discriminator. 3,437,941, 4-8-69, Cl. 329-142.
Leary, Joseph A.: *See—*
Mullins, Lawrence J.; and Leary, Joseph A.,3,420,639.
Leary, Ralph J.: *See—*
Stogryn, Eugene L.; Argabright, Perry A.; and Leary, Ralph J.,3,441,518.
Leas, Arnold M., to Ashland Oil & Refining Company. Hydrocarbon liquids containing polyphenyl substituted lower alkylenes. 3,431,094, 3-4-69, Cl. 44-80.
Lease, Charles W.: *See—*
Arbuckle, Wendell S., 3,479,187.
Leasure, John K.; and Mussell, Dorsey R., to Dow Chemical Company, The. Method for modifying the growth characteristics of plants. 3,421,881, 1-14-69, Cl. 71-79.
Leasure, William C.; and Andrews, John D., to Mira-Pak, Inc. Package. 3,458,111, 7-29-69, Cl. 229-17.
Leasure, William C.; and Crawford, Jerry W., to Mira-Pak, Inc. Method for packaging in deoxygenated environment. 3,449,134, 6-10-69, Cl. 99-189.
Leath, Colin W.; Waldman, Myron R.; and Vallante, Thomas E., to Walco Electric Company. Wire heater temperature recording and control device. 3,476,910, 11-4-69, Cl. 219-155.
Leath, Colin W.: *See—*
Waldman, Myron R.; and Leath, Colin W.,3,448,242.
Leath, James. Toy apparatus with manually tiltable platform. 3,428,310, 2-18-69, Cl. 272-31.
Leatham, Earl: *See—*
Campbell, William W.; and Leatham, Earl,3,429,664.
Leather Specialty Company, The: *See—*
Korchmar, Don I., 3,425,525.
Korchmar, Don I., 3,437,366.
Leathercraft Inc.: *See—*
Maile, Otto, 3,448,838.
Leatherman, Alfred F., to Heller, William C., mesne. Induction eating process. 3,462,336, 8-19-69, Cl. 156-272.
Leathers, Clarence H., to Grant Oil Tool Company. 'D' Dowell valve. 3,483,885, 12-16-69, Cl. 137-329.02
Leatherwood, Clyde A.: *See—*
Karkalits, Olin C., Jr.; and Leatherwood, Clyde A.,3,426,093.
Leatherwood, James M. Rangefinder and automatic reticle setter. 3,431,652, 3-11-69, Cl. 33-50.
Leathley, Burton R., to Oliver Instrument Company. Cutter grinder with fluid cushion work support. 3,481,082, 12-2-69, Cl. 51-56.
Leavens, William B., Jr. Detection of anomalous conditions in the handling of sheet material comprising sequentially printing and counting a predetermined number of lines on each sheet. 3,446,978, 5-27-69, Cl. 250-219.
Leavenworth, Richard L.: *See—*
Gibson, Robert G.; Hughes, David R.; and Leavenworth, Richard L.,3,434,117.
Leavitt, Frank V.: *See—*
De Moss, Alan D.; and Leavitt, Frank V.,3,458,131.
Leavitt, Richard I., to Mobil Oil Corporation. Growing microorganisms on hydrocarbons. 3,474,001, 10-21-69, Cl. 195-28.
Leavitt, Theodore W. Bumper hitch. 3,434,740, 3-25-69, Cl. 280-502.
Leavitt, William R., to Rowe Industries Inc. Brush retaining means for an electric motor. 3,433,989, 3-18-69, Cl. 310-239.
Le Baigue, Jacques L.: *See—*
Downey, David F.; Le Baigue, Jacques L.; and Ohlson, Bengt E.,3,432,997.
Lebanon Machine & Manufacturing Co., Inc.: *See—*
Sprecher, Carl A., 3,439,673.

Le Baron, Chester. Method and means of securing a roller on a shaft. 3,486,776, 12-30-69, Cl. 287-52.01
Le Beau, Robert W.: *See—*
Fraguada, Jose M.; and Le Beau, Robert W.,3,457,045.
Lebech, Paul Erik; and Schroder, Svend Ludvig. Intrauterine device. 3,467,087, 9-16-69, Cl. 128-130.
Lebedev, Anatoly Vasilievich: *See—*
Zablotsky, Igor Evgenievich; Korostelev, Jury Alexandrovich; Lebedev, Anatoly Vasilievich; Sviblov, Lev Borisovich; and Tolchinsky, Efim Moiseevich,3,467,358.
Lebek, Alexander; and Raab, Siegfried, to Deutsche Akademie der Wissenschaften Zu Berlin. Traversing a molten zone in a crystalline bar by direct current reversal. 3,453,088, 7-1-69, Cl. 23-301.
Lebel, Alexandre. Tipping lids. 3,470,885, 10-7-69, Cl. 131-242.
Le Bel, John P. Sonic boom and shock wave eliminator. 3,424,400, 1-28-69, Cl. 244-1.
Lebel, Pierre: *See—*
Driffort, Jean Pierre; and Lebel, Pierre,3,475,639.
Lebel, Stephen J.; and Strobelt, William E., to Boeing Company, The. Continuous monitor for the rapid detection of hydrogen and oxygen. 3,426,579, 2-11-69, Cl. 73-23.
Lebelle, Jean Louis. Pile driver and extractor with rotating eccentric masses of variable weights. 3,433,311, 3-18-69, Cl. 173-49.
Le Bey, Henri, to Societe dite: Photomaton G.C. Installations for processing sensitive surfaces. 3,474,717, 10-28-69, Cl. 95-94.
Lebig, Herbert: *See—*
Ruger, Frank; Guhne, Hans-Peter; and Lebig, Herbert,3,442,258.
Lebig, Herbert, to Daimler-Benz Aktiengesellschaft. Installation for heating the precompressed combustion air in internal combustion engines. 3,450,118, 6-17-69, Cl. 123-122.
Lebkucher, Karl Heinz: *See—*
Schinzel, Erich; and Lebkucher, Karl Heinz,3,420,821.
Schinzel, Erich; Pintschovius, Ulrich; and Lebkucher, Karl Heinz,3,427,307.
Le Blanc, Edward H. Ignition combination lock mechanism. 3,435,647, 4-1-69, Cl. 70--214
Le Blanc, Edward H. Combination lock mechanism. 3,462,981, 8-26-69, Cl. 70-156.
Leblanc, G., Corporation: *See—*
Whiteside, Walter D.; and Hampel, Robert H., 3,421,398.
Le Blanc, Henry J.: *See—*
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J.,3,457,831.
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J.,3,457,832.
Adler, Norman R.; Godin, Raphael W.; and Le Blanc, Henry J.,3,469,498.
Leblanc, Jean, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Apparatus of the electromagnetic type, including friction discs, such as clutches and brakes. 3,429,409, 2-25-69, Cl. 192-84.
Le Blanc, John R.: *See—*
Higginbottom, Harold P.; and Le Blanc, John R.,3,444,137.
LeBlanc, John R.: *See—*
Higginbottom, Harold P.; and LeBlanc, John R.,3,428,593.
Le Blanc, John R., to Monsanto Company. Modified phenolic resin containing epoxy substituted silane. 3,444,119, 5-13-69, Cl. 260-29.3
Le Blanc, John R., to Brockway Glass Company, Inc. Method for coloring glass with water soluble compounds. 3,463,626, 8-26-69, Cl. 65-134.
Le Blanc, John R., to Brockway Glass Company, Inc. Method for producing colored glass. 3,463,627, 8-26-69, Cl. 65-134.
Le Blanc, John R.; and Burke, William D., to Monsanto Company. Pliable phenolic-treated substrates. 3,438,850, 4-15-69, Cl. 161-232.
Le Bleu, Robert D. Underwater vehicle. 3,474,750, 10-28-69, Cl. 114-16.
Leblond, Jean, to Uniroyal Englebert France S.A. Tire testing machine and method. 3,473,422, 10-21-69, Cl. 73-146.
Le Blond, R. K., Machine Tool Co., The: *See—*
Burroughs, Robert K., 3,429,123.
Burroughs, Robert K.; and Wakefield, Timothy A., 3,443,310.
Hermann, Otto, 3,460,413.
Wakefield, Timothy A.; and Foley, Preston R., Jr., 3,465,890.
Lebourg, Maurcie P., to Schlumberger Technology Corporation. Method and apparatus for formation testing. 3,448,611, 6-10-69, Cl. 73-151.
Lebourg, Maurcie P., to Schlumberger Technology Corporation. Method of and apparatus for transmitting information from a subsurface well tool to the earth's surface. 3,448,612, 6-10-69, Cl. 73-151.
Lebourg, Maurice P., to Schlumberger Technology Corporation. Methods and apparatus for soft sand testing. 3,422,673, 1-21-69, Cl. 73-152.
Leboutet, Hubert; and Mangin, Jean-Paul, to CSF-Compagnie Generale de Telegraphie Sans Fil. Pulse-chopped electron beam source. 3,482,139, 12-2-69, Cl. 315-5.25
Le Boutet, Hubert; and Pinel, Jacques, to CSF-Compagnie Generale de Telegraphie Sans Fil. Device for deriving a beam from a particle accelerator utilizing triple focusing means. 3,448,263, 6-3-69, Cl. 250-49.5
Lebow Associates, Inc.: *See—*
Brendel, Albert E., 3,426,589.
Stover, Jordan H., III, 3,461,715.
Lebrasseur, Genevieve, born Nicoud, to Ethylene-Plastique. Process for the preparation of alkylene monothiocarbonates. 3,446,818, 5-27-69, Cl. 260-327.
Lebrasseur, Genevieve, born Nicoud, to Ethylene-Plastique. Process for the preparation of alkylene dithiocarbonates. 3,448,120, 6-3-69, Cl. 260-327.
Lebrecht Tigges: *See—*
Tigges, Gerhard, 3,477,113.
Le Breton, Leslie Arthur. Pipe bending devices. 3,464,254, 9-2-69, Cl. 72-389.
Lebrun, Franz Joseph Ghislain, to Automatic Electric Laboratories, Inc. Automatically compensating telephone substation. 3,440,356, 4-22-69, Cl. 179-81.
Lebrun, Michel; and Gester, Marcel, to Societe Anonyme dite Compagnie Des Freins et Signaux Westinghouse. Method and system for coordinating binary infor- mation whereby to transmit control commands. 3,444,524, 5-13-69, Cl. 340-172.5
Le Bus, Jake H.: *See—*
Lintelman, Arthur H.; Le Bus, Jake H.; and Norman, James Lee, Jr.,3,454,870.
Lech, Frederick A., to Ford Motor Company. Energy dissipating device. 3,444,962, 5-20-69, Cl. 188-1.
Lech, Richard J., to International Harvester Company. Power steering unit with poppet directional control valves. 3,446,021, 5-27-69, Cl. 60-52.
Lech, Richard J.: *See—*
Jennings, Marvin D.; and Lech, Richard J.,3,438,200.
Lechene, Leo L. Broom core winding machine. 3,463,550, 8-26-69, Cl. 300-14.
Lechene, Leo L. Method of making a broom. 3,486,796, 12-30-69, Cl. 300-21.
Lechleider, Joseph W., to Bell Telephone Laboratories, Incorporated. Error correcting communication system. 3,444,516, 5-13-69, Cl. 340-146.1
Lechleider, Joseph W., to Bell Telephone Laboratories, Incorporated. Instantaneous compandor utilizing the sampled pulse response of a linear time-invariant network. 3,460,068, 8-5-69, Cl. 332-11.
Lechner, Bernard J., to RCA Corporation. Ferroelectric control circuits. 3,478,224, 11-11-69, Cl. 307-88.
Lechtenberg, Leo J.: *See—*
Harkness, Joseph R.; and Lechtenberg, Leo J.,3,465,740.
Lecifruit N.V.: *See—*
Mulder, Tjebbo Jakob, 3,451,826.
Leck, George W., to Radio Corporation of America. Method of fabricating improved solderable lands. 3,421,938, 1-14-69, Cl. 117-217.
Leckell, Frank. Fish alarm. 3,473,250, 10-21-69, Cl. 43-17.
Leckey, Cleve R.; Quint, Richard J.; and Blanchard, Richard L., to Oxford Paper Company. Roll profiler. 3,427,723, 2-18-69, Cl. 33-174.
L'Eclairage des Vehicules sur Rail:*See—*
Lamorlette, Paul, 3,436,540.
Le Claire, Harry Edward: *See—*
Trebotich, Thomas Samuel; and Le Claire, Harry Edward,3,476,917.
Leclanche S.A.: *See—*
Ruetschi, Paul, 3,423,645.
Leclear, Robert L., to T & S Equipment Co. Dock board construction. 3,444,574, 5-20-69, Cl. 14-71.
le Clerc de Bussy, Jacques Marie Yves, to Verreries Pochet et du Courval. Very high temperature electric melting furnace. 3,429,972, 2-25-69, Cl. 13-6.
Le Clerc, Georges Marie: *See—*
Quanquin, Bernard; Le Clerc, Georges Marie; and Pierre, Jean-Louis,3,475,195.
Leclerc, Robert Ernest: *See—*
Jenkins, Alexander; and Weber, Eugen, 3,433,862.
Le Clercq, Pierre. Method for constructing a building simultaneously below and above ground level. 3,457,690, 7-29-69, Cl. 52-742.
Leclercq, Rene, de Montmollin, Jean Pierre, and Gugger, Rene. Heating glass structure. 3,475,595, 10-28-69, Cl. 219-522.
Leco, Inc.: *See—*
Phillips, William N., 3,446,379.
Phillips, William Neal, 3,450,436.
Lecocq, Robert: *See—*
Mathey, Raymond; Picardat, Bernard; and Lecocq, Robert,3,435,687.
Le Compte, Frank M., to Tingley Rubber Corporation. Boat fender. 3,433,200, 3-18-69, Cl. 114-219.
Le Compte, Frank M., to Tingley Rubber Corporation. Attachment for the spreader of a sail boat mast. 3,477,402, 11-11-69, Cl. 114-102.

Lecomte, Alexandre: *See—*
Bouthors, Pierre; Lecomte, Alexandre; and Soetaert, Guy,3,483,769.
Lecomte, Alexandre, to Regie Nationale des Usines Renault. Automatic winding window regulators. 3,449,861, 6-17-69, Cl. 49-349.
Lecomte, Paul. Process for the production of energy by controlled fusion. 3,445,333, 5-20-69, Cl. 176-1.
Le Count, David James; and Reid, James Angus Wilson, to Imperial Chemical Industries Limited. Process for the production of substituted aromatic compounds. 3,463,825, 8-26-69, Cl. 260-621.
Lecouturier, Jacques M.; Abele, Janis I.; and Schlienger, Max P. Shoeshine machine. 3,460,178, 8-12-69, Cl. 15-31.
Le Coz, Francois; Mombaxet, Rene; and Raynaud, Noel, to Commissariat a l'Energie Atomique. Device for assembling a nuclear fuel element support inside an annular sleeve. 3,431,618, 3-11-69, Cl. 29-200.
Le Craw, Roy Conway: *See—*
Dillon, Joseph F., Jr.; Le Craw, Roy Conway; von Philipsborn, Henning; and Wernick, Jack H.,3,480,409.
Gyorgy, Ernst M.; Le Craw, Roy Conway; and Van Uitert, Le Grand G.,3,428,144.
LeCrenn, Georges G. Means for optimizing the performance of internal combustion engines. 3,481,314, 12-2-69, Cl. 123-90.
Lectra Power, Inc.: *See—*
Kornovich, Daniel W.; and Zellmer, Walter C., 3,458,173.
Lecuyer, Robert Hyacinthe Jean. Folding chairs. 3,453,022, 7-1-69, Cl. 297-46.
Ledbetter, Harvey D., to Dow Chemical Company, The. Preparation of polypropylene having intermediate crystallinity with a catalyst comprising (1) $TiCl_4$- metal hydride-alkyl aluminum halide and (2) aluminum trialkyl. 3,478,008, 11-11-69, Cl. 260-93.7
Ledbetter, Jerry Nelson, to Calumet & Hecla Corporation, mesne. Flat coil packaging machine. 3,466,846, 9-16-69, Cl. 53-194.
Ledeen, Edward A., to Electronic Research Corporation. Method of making memory core plane. 3,439,087, 4-15-69, Cl. 264-255.
Ledeen, Howard L.; and Childress, Elmer W. Self-contained hydraulic valve actuator. 3,435,614, 4-1-69, Cl. 60-52.
Ledent, Pierre Leon Victor, to Institut National de l'Industrie Charbonniere. Carbonisation of solid fuels. 3,476,649, 11-4-69, Cl. 201-12.
Leder, Frederic: *See—*
Robbins, Max L.; Leder, Frederic; and Chludzinski, George R.,3,429,811.
Lederer, George H. Gyro conveyance method. 3,463,293, 8-26-69, Cl. 198-33.
Lederer, Michael: *See—*
Heuck, Claus; and Lederer, Michael,3,457,240.
Lederer, Michael; Lenzmann, Heinrich; and Wagener, Siegfried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Manufacture of peroxydicarbonates. 3,429,910, 2-25-69, Cl. 260-463.
Lederhandler, Saul R., to Micro State Electronics Corporation, The. Modulation and amplification of electromagnetic radiation by impact ionization. 3,453,431, 7-1-69, Cl. 250-83.3
Lederle, Henry F.: *See—*
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F.,3,450,799.
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F.,3,462,518.
Ledex, Inc.: *See—*
Janning, John L., 3,445,732.
Ledford, Garland M.: *See—*
Cauthen, John V.; Hinson, Claudell; Ledford, Garland M.; and Abe, Fujio,3,459,235.
Ledford, William I.; and Sowell, Jack. Hydraulic press adapted to utilize portable hydraulic jack. 3,442,111, 5-6-69, Cl. 72-389.
Ledgerwood, Leroy W., Jr., to Esso Production Research Company. Flexible flowline. 3,461,916, 8-19-69, Cl. 138-120.
Ledges, George E.: *See—*
Altshuler, Thomas L.; Harr, Thomas E.; and Ledges, George E.,3,435,137.
Ledig, Kurt W.; and Wendt, Gerhard R., to American Home Products Corporation. 16α-Aminoalkyl- and aminoalkynyl steroids. 3,471,478, 10-7-69, Cl. 260-239.5
Ledig, Kurt W.; and Wendt, Gerhard R., to American Home Products Corporation. Amidinohydrazones of 4-halo-3-keto-steroids and intermediates. 3,479,341, 11-18-69, Cl. 260-239.55
Ledig, Kurt W.: *See—*
Wendt, Gerhard R.; and Ledig, Kurt W.,3,431,262.
Wendt, Gerhard R.; and Ledig, Kurt W.,3,452,061.
Wendt, Gerhard R.; and Ledig, Kurt W.,3,458,541.
Wendt, Gerhard R.; and Ledig, Kurt W.,3,458,564.
Wendt, Gerhard R.; and Ledig, Kurt W.,3,479,347.
Wendt, Gerhard R.; and Ledig, Kurt W.,3,485,837.
Leditschke, Heinrich: *See—*
Ehrhart, Gustav; Leditschke, Heinrich; Meixner, Willi; and Ruschig, Heinrich,3,474,140.
Leditschke, Heinrich; Ehrhart, Gustav; Ruschig, Heinrich; and Meixner, Willi, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Methylenedioxy phenyl acetamides. 3,462,456, 8-19-69, Cl. 260-340.5
Ledley, Robert E., III, to Sun Oil Company. Diaphragm rupturing device. 3,428,022, 2-18-69, Cl. 116-137.
Lednicer, Daniel: *See—*
Duncan, Gordon W.; and Lednicer, Daniel,3,483,293.
Lednicer, Daniel, to Upjohn Company, The. 1,2-Diphenyl-6-methoxy-1,2,3,4-tetrahydro- 1,2-naphthalenediols. 3,452,102, 6-24-69, Cl. 260-613.
Lednicer, Daniel, to Upjohn Company, The. 5-6-Diphenylphydro-to 5,6-diphenylhydro. 3,454,648, 7-8-69, Cl. 260-590.
Lednicer, Daniel, to Upjohn Company, The. Dianisylimidazoles. 3,455,924, 7-15-69, Cl. 260-256.4
Lednicer, Daniel, to Upjohn Company, The. 6-Alkoxy-1,2,3,4,5,8-hexahydronaphthalenes. 3,456,018, 7-15-69, Cl. 260-611.
Lednicer, Daniel, to Upjohn Company, The. Certain 2-amino-4,5-bis(ρ-methoxyphenyl) thiazoles. 3,458,526, 7-29-69, Cl. 260-306.8
Lednicer, Daniel, to Upjohn Company, The. 5,6-Diphenyl-4,4α,5,6,7,8-hexahydro-2(3H)- naphthalenones. 3,470,202, 9-30-69, Cl. 260-326.5
Lednicer, Daniel, to Upjohn Company, The. 1,2-Dipheny-1,2,3,4-tetrahydro-1- naphthols and 1,2-diphenyl-1-hydroxyindanes. 3,480,679, 11-25-69, Cl. 260-609.
Ledoga S.p.A.: *See—*
Nobile, Luciano; and Tesei, Carlo Alberto, 3,425,972.
Nobile, Luciano; Condorelli, Emanuele; La Noce, Tullio; and Poma, Anteo, 3,435,024.
Nobile, Luciano; Conorelli, Emanuele; La Noce, Tullio; and Poma, Anteo, 3,451,936.
Nobile, Luciano; Condorelli, Emanuele; and Tesei, Carlo, 3,472,804.
Nobile, Luciano, 3,479,248.
Ledokhovich, Adolf Nikodimovich: *See—*
Keller, Ulrikh Ulrikhovich; Ledokhovich, Adolf Nikodimovich; Bitjugov, Jury Alexeevich; and Stratulatov, Gennady Yakovlevich,3,479,999.
Ledoray, Pierre Yves: *See—*
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves,3,444,098.
Le Douarec, Jean-Claude: *See—*
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude,3,429,922.
Regnie, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel,3,457,263.
Regnier, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel,3,435,036.
Leduc, Joseph Adrien M., to Pullman Incorporated. Electrochemical apparatus. 3,421,994, 1-14-69, Cl. 204-219.
Le Duc, Joseph Adrien M., to Pullman, Incorporated. Electrolytic production of olefine oxides. 3,427,235, 2-11-69, Cl. 204-78.
Ledune, Jacques; and Nilles, Gaul, to Centre National de Recherches Metallurgiques Societe Anonyme des Forges de La Providence, and Mannesmann Aktiengesellschaft. Method for correcting the temperature of steel at the end of the refining process. 3,476,550, 11-4-69, Cl. 75-52.
Ledune, Jacques; and Nilles, Paul, to Centre National de Recherches Metallurgiques, and Societe Anonyme des Forges de la Providence. Methods for refining pig iron. 3,423,202, 1-21-69, Cl. 75-60.
Lee, Anthony Michael: *See—*
Gabbitus, Derek; Stephens, Allan; Brebner, James; and Lee, Anthony Michael,3,430,427.
Lee, Arlene M.: *See—*
Lee, Robert L., 3,452,439.
Lee, Arnold St. J.: *See—*
Margolien, David H.; Lee, Arnold St. J.; and Krag, Niels,3,444,549.
Lee, Byron D. Door knob assembly. 3,439,514, 4-22-69, Cl. 70-147.
Lee, Charles A., to Appleton Wire Works Corporation, mesne. Zippered belt for a rotary filter. 3,441,951, 4-29-69, Cl. 24-31.
Lee, Charles A., to Appleton Wire Works Corporation, mesne. Sewn Fabric and method of manufacture. 3,474,748, 10-28-69, Cl. 112-432.
Lee, Charles A.; and Furbeck, Warren R., to Appleton Wire Works Corporation, mesne. Method and aparatus for making endless sewn fabric. 3,459,612, 8-5-69, Cl. 156-84.
Lee, Charles A.; and Furbeck, Warren R., to Appleton Wire Works Corporation, mesne. Method and apparatus for the continuous manufacture of sewn mesh fabric. 3,486,956, 12-30-69, Cl. 156-84.
Lee, Charles A.: *See—*
Batdorf, Robert L.; and Lee, Charles A.,3,466,441.
Lee, Charles Allen; and Murphy, James A., to Canadian International Paper Company, mesne. Fiber suspension distribution system. 3,445,331, 5-20-69, Cl. 162-338.
Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards,3,472,504.
Lee, Charles D., Jr.; and Black, Robert L., Jr., to Parks-Cramer Company. Apparatus and method for detecting, piecing-up and reporting ends down on spinning machines. 3,486,319, 12-30-69, Cl. 57-34.
Lee, Charles D., Jr.: *See—*
Black, Robert L., Jr.; and Lee, Charles D., Jr.,3,432,877.

Lee, Cheuk Man, to Abbott Laboratories. Substituted (4-oxo-2-oxazolidinylidene) urea derivatives. 3,481,950, 12-2-69, Cl. 260-307.
Lee, Chi-Long, to Dow Corning Corporation. Pentavalent silane and tetravalent boron catecholates as polymerization catalysts. 3,445,426, 5-20-69, Cl. 260-46.5
Lee, Chi-Chang: *See*—
Dempsey, James Joseph; and Lee, Chi-Chang,3,478,141.
Lee, Chi-Yuan: *See*—
Gaines, Richard S.; and Lee, Chi-Yuan,3,475,733.
Lee, Chia Huan: *See*—
Thorel, John P.; Lee, Chia Huan; and Sherwood, Donald G.,3,448,303.
Lee Company, The: *See*—
Lee, Leighton, II, 3,451,583.
Lee, David Q.: *See*—
Flanagan, William J.; and Lee, David Q.,3,430,624.
Lee, DeWayne A., to United States of America, Atomic Energy Commission. Extraction of lithium values. 3,479,147, 11-18-69, Cl. 23-312.
Lee, Edward P.; Lombardi, Eugene H.; Montes, Ralph A.; and Stoeckli, Oscar W., to General Foods Corporation. Surge unit. 3,470,996, 10-7-69, Cl. 198-24.
Lee, Edward R., to Leggitt, S. H., Company. Filling neck and pressure cap. 3,451,589, 6-24-69, Cl. 220-86.
Lee, Emerson L. Stringed musical instruments having a slidably mounted neck. 3,439,570, 4-22-69, Cl. 84-293.
Lee, Ernest O., Jr.: *See*—
Jorgensen, Adam A.; Lee, Ernest O., Jr.; Neumeier, Guenther F.; and Schneider, Gerhard O. K.,3,485,956.
Lee, Fitzhugh T.: *See*—
Nichols, Thomas C., Jr.; Abel, John F., Jr.; and Lee, Fitzhugh T.,3,482,443.
Lee, Frank A.; and Kratsios, George, to Foster Wheeler Corporation. Header system. 3,439,653, 4-22-69, Cl. 122-510.
Lee, George H. Magnetic recording and reproducing method and apparatus embodied in a mimicking parrot or doll. 3,469,039, 9-23-69, Cl. 179-100.2
Lee, George; and Holt, Frank, to H.L.F. Engineering Developments Ltd. Variable speed gear. 3,486,390, 12-30-69, Cl. 74-200.
Lee, Graham, to Dorr-Oliver Incorporated. Rotary table filter construction. 3,485,375, 12-23-69, Cl. 210-330.
Lee, Harold Barry, to F.M.C. (Australia) Limited. Can filling apparatus. 3,434,630, 3-25-69, Cl. 222-168.5
Lee, Harold B., to FMC Corporation. Hydrostatic cooker conveyor. 3,434,585, 3-25-69, Cl. 198-131.
Lee, Harold J.: *See*—
Selden, Leonard M.; and Lee, Harold J.,3,485,543.
Lee, Harold R.: *See*—
Lanzl, Robert H.; and Lee, Harold R.,3,439,235.
Lee, Harold R., to General Electric Company. Epoxy encapsulated semiconductor device wherein the encapsulant comprises an epoxy Novolak. 3,449,641, 6-10-69, Cl. 317-234.
Lee, Haynes A., Jr.; and Rapp, Charles F., to Owens-Illinois, Inc. Glass compositions for laser application. 3,457,182, 7-22-69, Cl. 252-301.4
Lee, Haynes A., Jr.; and Rapp, Charles F., to Owens-Illinois, Inc. Laser glasses having a relatively low thermal expansion. 3,457,183, 7-22-69, Cl. 252-301.4
Lee, Haynes A., Jr.; and Rapp, Charles F., to Owens-Illinois, Inc. Glass lasers for high energy application. 3,471,409, 10-7-69, Cl. 252-301.4
Lee, Hen N.; and Van House, Russell W., to Parke, Davis & Company. Process for the production of η- nitroethanol. 3,426,084, 2-4-69, Cl. 260-632.
Lee, Henry L.: *See*—
Shirley, William L.; Lee, Henry L.; and Brantly, Jeff D.,3,462,145.
Shirley, William L.; Lee, Henry L.; and Brantly, Jeff D.,3,472,511.
Lee, Herbert P. C., to Chevron Research Company. Preparation of tetrachloroethyl sulfenyl chloride with sulfur dichloride. 3,454,631, 7-8-69, Cl. 260-543.
Lee, Herbert P. C.: *See*—
Look, Melvin; Padgett, Weldon M., II; Hyman, Julius; Fenyes, Joseph G. E.; and Lee, Herbert P. C.,3,480,646.
Lee, Hop. Toy windmill. 3,475,850, 11-4-69, Cl. 46-58.
Lee, Hsi Lin: *See*—
Gibas, John Thaddeus; Lee, Hsi Lin; and Wenner, Wilhelm,3,457,266.
Lee, Hua-Tung: *See*—
Hoffman, Harry S., Jr.; and Lee, Hua-Tung,3,443,195.
Lee, James F. Extracting unit for weeds, grass and the like. 3,458,980, 8-5-69, Cl. 56-28.
Lee, James H., to Dymo Industries, Inc. Marking apparatus including marking pen and ink-dispensing receptacle. 3,480,371, 11-25-69, Cl. 401-121.
Lee, John H. A., to Massey-Ferguson Limited. Grain separating apparatus. 3,456,786, 7-22-69, Cl. 209-34.
Lee, John M., to Dow Chemical Company, The. Perlite composition, porous low density perlite structure and method of making same. 3,445,253, 5-20-69, Cl. 106-40.
Lee, John M., to Dow Chemical Company, The. Extraction of lithium, calcium and magnesium bromides using hydroxyethers and glycols. 3,449,088, 6-10-69, Cl. 23-312.
Lee, John T. M.: *See*—
Bergs, Arvids; and Lee, John T. M.,3,426,578.
Lee, John V.; and Love, Leon O., to United States of America, Atomic Energy Commission. Calutron ion source with magnetic field inducing coil within arc chamber. 3,432,709, 3-11-69, Cl. 313-63.
Lee, Kenneth: *See*—
Chaplin, Hubert O.; McQueen, Roy D.; and Lee, Kenneth,3,423,779.
Lee, Kwo T., to Chemical Construction Corporation. Removal of impurities from hydrogen. 3,420,633, 1-7-69, Cl. 23-210.
Lee, Leighton, II, to Lee Company, The. Expandable sealing plug. 3,451,583, 6-24-69, Cl. 220-24.5
Lee, Lester H., to Ampex Corporation. Photocell position sensor having masks for linearizing photocell. 3,435,245, 3-25-69, Cl. 250-219.
Lee, Lester H., to Ampex Corporation. Movable member position servo system. 3,462,659, 8-19-69, Cl. 318-6.
Lee, Lieng-Huang, to Dow Chemical Company, The. Vinylidenearylenealkylene carbamates and polymers thereof. 3,424,730, 1-28-69, Cl. 260-80.3
Lee, Lloyd T. Milk inlet. 3,438,609, 4-15-69, Cl. 251-145.
Lee, Lloyd T. Milk inlet sealing device. 3,476,357, 11-4-69, Cl. 251-151.
Lee, Lloyd T. Automotive deceleration signal system. 3,478,312, 11-11-69, Cl. 340-67.
Lee, Mary G.: *See*—
Zawadzki, Thomas; Reventas, Algirdas A.; and Lee, Richard M.,3,423,347.
Lee, Milton O.: *See*—
Hamrick, James G.; Lee, Milton O.; and Loewenthal, Ariadne L.,3,435,414.
Lee, Mona F.: *See*—
Lee, Oscar M.; and Lee, Mona F.,3,426,469.
Lee, Nathan Dean; and Schwartz, Nelson Norman, to FMC Corporation. Regeneration of anthraquinone working solution used in the production of hydrogen peroxide. 3,432,267, 3-11-69, Cl. 23-207.
Lee, Oscar M.; and Lee, Mona F. Automatically detachable casting weight. 3,426,469, 2-11-69, Cl. 43-43.12
Lee Packaging Machinery Corporation: *See*—
Lee, Richard G., 3,452,507.
Lee, Patrick P., to Destech Labs., Inc. Compound resilient shock absorber. 3,437,332, 4-8-69, Cl. 267-1.
Lee, Paul H.: *See*—
Lipsett, Morley S.; and Lee, Paul H.,3,457,415.
Lee, Preston Pope: *See*—
Austin, Amory Earl; and Lee, Preston Pope,3,434,974.
Lee, Raymond, Organization, Inc., The: *See*—
Pelletier, Eugene, 3,485,190.
Pomerantz, Harry, 3,440,692.
Reed, Marvin Wendele; and Reed, Maurice Verion, 3,435,991.
Lee, Richard G., to Tensor Corporation, The. Method and apparatus for selecting plants of a crop for harvest. 3,439,746, 4-22-69, Cl. 172-1.
Lee, Richard G., to Lee Packaging Machinery Corporation. Method of forming box tops to boxes. 3,452,507, 7-1-69, Cl. 53-42.
Lee, Richard G., to Alves Photo Service, Inc., mesne. Machine for cutting strip material. 3,469,482, 9-30-69, Cl. 83-210.
Lee, Richard J.: *See*—
Burkett, Francis L.; and Lee, Richard J.,3,464,085.
Lee, Richard J., to Standard Oil Company (Indiana). Alkenyl hydrocarbon substituted succinimides of polyamino ureas and their boron-containing derivatives. 3,449,362, 6-10-69, Cl. 260-326.3
Lee, Richard J., to Standard Oil Company (Indiana). Synthesis of nitro-ketones. 3,449,437, 6-10-69, Cl. 260-593.
Lee, Richard J., to Dow Chemical Company, The. Thermoplastic pressure vessel for carbonated beverages. 3,480,168, 11-25-69, Cl. 215-1.
Lee, Richard J.; and Golner, Jerome F. Burr-removing machines. 3,426,646, 2-11-69, Cl. 90-24.
Lee, Richard M.: *See*—
Zawadzki, Thomas; Reventas, Algirdas A.; and Lee, Richard M.,3,423,347.
Lee, Robert E.Safety snap-on button baby's diaper. 3,431,908, 3-11-69, Cl. 128-284.
Lee, Robert E., 1/2 to Westman, Eythor. Shrimp deheading device. 3,451,100, 6-24-69, Cl. 17-71.
Lee, Robert E. Arm control-mechanism for commercial-type sewing machines. 3,479,901, 11-25-69, Cl. 74-491.
Lee, Robert E.; and Donald, Harold J., to Dow Chemical Company, The. Extrusion apparatus. 3,477,099, 11-11-69, Cl. 18-13.
Lee, Robert E.; and McCullough, Edward E., to Thiokol Chemical Corporation. Flexible bearings and process for their manufacture. 3,429,622, 2-25-69, Cl. 308-2.
Lee, Robert E.: *See*—
Gabriel, Alfred P.; Lee, Robert E.; and Mohrman, Richard C.,3,449,946.

Lee, Robert G., to Koehler-Dayton, Inc. Self-cleaning filter. 3,429,445, 225-69, Cl. 210-357.
Lee, Robert H.: *See—*
Annunziata, Carmine; and Lee, Robert H.,3,420,980.
Lee, Robert H. Electrical actuator having a mechanical output. 3,439,198, 4-15-69, Cl. 310-13.
Lee, Robert H.; and Stearns, Dick E. DC to DC converter. 3,435,320, 3-25-69, Cl. 321-2.
Lee, Robert J.: *See—*
Arnold, Vernon W.; and Lee, Robert J.,3,429,843.
Lee, Robert L.: *See—*
Lee, Robert L., 3,452,439.
Lee, Robert L., 5% to Arant, Gene W. 95% to Lee, Robert L., and Lee, Arlene M. Method and apparatus for transferring recorded jaw movement information. 3,452,439, 7-1-69, Cl. 32-32.
Lee, Robert S. Fail safe indicator of failures in heating apparatus. 3,487,394, 12-30-69, Cl. 340-252.
Lee, Ronald H. D. F.; and Dixon, Kay, to Cooper, McDougall & Robertson Ltd. Mechanisms for dispensing unit doses of materials. 3,459,338, 8-5-69, Cl. 222-219.
Lee, Ronald Henry, to International Computers Limited. Cyclically operable printing and proportional spacing apparatus. 3,420,164, 1-7-69, Cl. 101-93.
Lee, Ronald Henry; and Keen, Albert John, to International Computers and Tabulators Limited. Print hammer mechanisms for high speed printers. 3,434,413, 3-25-69, Cl. 101-93.
Lee, Ronald Henry; and Keen, Albert John, to International Computers and Tabulators Limited. Print hammers with electromagnetic actuating means. 3,468,246, 9-23-69, Cl. 101-93.
Lee, Ronald, to Girling Limited. Disc brakeshoe assemblies. 3,435,926, 4-1-69, Cl. 188-242.
Lee, Samuel C.: *See—*
Dow, Robert J.; Feldman, David; Lee, Samuel C.; Mitchell, Edward S., Jr.; and Wyndrum, Ralph W., Jr.,3,460,026.
Lee, Samuel, to Geigy Chemical Corporation. Intensification of lake colors. 3,459,572, 8-5-69, Cl. 106-289.
Lee, Sen L., to North American Rockwell Corporation. Cooling of gas generators. 3,439,502, 4-22-69, Cl. 60-258.
Lee, Shaotang. Separable hour-sleeve for the world travel watch. 3,468,122, 9-23-69, Cl. 58-43.
Lee, Stuart J.; and Schenk, Raymond L., to Donaldson Company, Inc. Restriction indicator. 3,443,365, 5-13-69, Cl. 55-274.
Lee, Sung Chuel; and Palubniak, Paul, to LPL Corporation. Automatic venous infusion monitoring apparatus. 3,456,648, 7-22-69, Cl. 128-214.
Lee, Sung C.: *See—*
Misencik, John; and Lee, Sung C.,3,434,039.
Lee, Thomas Brian; and Templeton, Richard, to Fisons Pharmaceuticals Limited. Derivatives of chromone-2-carboxylic acid. 3,484,445, 12-16-69, Cl. 260-294.
Lee, Thomas H., to General Electric Company. Electric circuit breaker comprising parallel- connected interrupters. 3,441,800, 4-29-69, Cl. 317-11.
Lee, Thomas H.; and Streater, August L., to General Electric Company. Vacuum-type circuit breaker having parallel triggered-type circuit interrupters. 3,469,048, 9-23-69, Cl. 200-144.
Lee, Tzuo-Chang, to Honeywell Inc. Electro-optic light beam deflector. 3,485,553, 12-23-69, Cl. 350-160.
Lee, Walter J., to Dow Chemical Company, The. Method for preparing latexes having improved properties. 3,458,466, 7-29-69, Cl. 260-29.1
Lee, Walter W.: *See—*
Fischer, Israel Lou; and Lee, Walter W.,3,444,537.
Lee, William E., to Eastman Kodak Company. Forming a relief by developing and hardening an exposed unhardened silver halide emulsion in the exposed areas with 3-pyrazolidones having hydroxymethyl substitution in the 4-position. 3,453,109, 7-1-69, Cl. 96-36.
Lee, William H.; and Richards, Alan W., to Harris-Intertype Corporation. Control for printing press drive utilizing secondary control circuit for a wound rotor induction motor. 3,426,260, 2-4-69, Cl. 318-240.
Lee, William H.: *See—*
Stotzer, Roger H.; Lee, William H.; and Vandeman, Jack E.,3,467,007.
Lee, William N.: *See—*
Orchard, Henry J.; and Lee, William N.,3,470,500.
Lee, William S., 15% to Hunter, Daniel M., and Pattillo, John T. Fruit picker. 3,460,328, 8-12-69, Cl. 56-328.
Lee, William T., to Bowen Tools, Inc. Automatic wireline safety valve. 3,424,247, 1-28-69, Cl. 166-224.
Lee, William T., to Bowen Tools, Inc. Automatic wireline tool trap assembly. 3,435,895, 4-1-69, Cl. 166-75.
Lee, William W., Jr.: *See—*
Arrowood, Joseph L.; Groppe, Wayne A.; and Lee, William W., Jr.,3,453,050.
Lee, Wing J. Automatic shirt folding machine. 3,477,619, 11-11-69, Cl. 223-37.
Lee, Ying Kao: *See—*
Bayerl, Joseph James; deDecker, Hendrik Kamiel; and Lee, Ying Kao,3,433,759.
Lee-Norse Company: *See—*
Luksich, Thomas, 3,460,868.
Leebrick, John R., to Cosan Chemical Corporation, mesne. Process for accelerating polymerization of ethylenically unsaturated monomers using trivalent antimony compounds. 3,437,716, 4-8-69, Cl. 260-863.
Leebrick, John R., to Pfizer, Chas., & Co., Inc. Compositions containing organotin metal car- boxylate antimicrobials. 3,445,249, 5-20-69, Cl. 106-15.
Leebrick, John R., to M & T Chemicals Inc. Method of controlling bacteria with an organobismuth ethylenic carboxylate and polymer thereof. 3,466,366, 9-9-69, Cl. 424-80.
Leece-Neville Company, The: *See—*
Korda, John W., 3,470,455.
Snedeker, Marion L., 3,437,879.
Leech, Robert W., Jr.: *See—*
Fumea, Harry J., Jr.; and Leech, Robert W., Jr.,3,486,039.
Leeder, Harry A., Jr., to Dietz, R. E., Company. Heavy duty relay-transistor flasher circuit. 3,452,248, 6-24-69, Cl. 315-77.
Leeds & Northrup Company: *See—*
Bay, Theodosios; Chen, Tai Seng; and Schwartzenberg, John W., 3,473,008.
Blum, Bernard; Gowen, James R.; and Schwartzenberg, John W., 3,441,725.
Blum, Bernard; and Schwartzenberg, John W., 3,450,867.
Boyle, Gerald P., 3,455,164.
Cranch, Edward J.; and Stanwood, Robert H., 3,449,651.
Foley, Gerard M., 3,447,089.
Hance, Richard J., 3,463,005.
Harkins, Samuel J., 3,454,952.
Highley, Thomas T., Jr., 3,438,059.
Higley, Joseph B.; Robertson, Donald; and Schroyer, Franklin K., 3,448,283.
Johnson, Curtis R. A., 3,482,256.
Jones, Louis R., Jr., 3,452,598.
Mader, James M., 3,437,943.
McGill, Joseph L., 3,443,221.
Mitchell, Len B.; and Stoffels, Robert E., 3,465,290.
Ni Napoli, Louis D.; and Shaffer, William J., 3,444,449.
Pepin, Ronald W., 3,452,329.
Polster, Norman E., 3,438,049.
Polster, Norman E.; Ross, Raymond W.; and Williams, Albert J., Jr., 3,460,155.
Proctor, William E., Jr., 3,458,422.
Ross, Charles W., 3,454,749.
Ross, Charles W., 3,483,363.
Schwartzenberg, John W.; and Blum, Bernard, 3,475,599.
Voorhoeve, Ernst W., 3,454,894.
Walsh, Thomas J., 3,445,779.
Williams, Albert J., Jr.; and Mergner, George C., 3,447,075.
Williams, Albert J. Jr., 3,452,361.
Leeds and Micallef: *See—*
Micallef, Lewis A., 3,429,483.
Micallef, Lewis A., 3,429,488.
Micallef, Lewis A., 3,452,905.
Micallef, Lewis A., 3,471,064.
Micallef, Lewis A., 3,471,066.
Micallef, Lewis A., 3,484,027.
Leeds, Harry R. Medical sterilization apparatus. 3,473,886, 10-21-69, Cl. 21-91.
Leeds, Harry R. Medical sterilization apparatus. 3,476,507, 11-4-69, Cl. 21-91.
Leeds, Harry R.; and McWilliams, Robert J., to Ritter Pfaudler Corporation. Glassed heat exchanger construction. 3,424,238, 1-28-69, Cl. 165-133.
Leeds, Winthrop M., to Westinghouse Electric Corporation. Gas-blast circuit interrupter. 3,433,913, 3-18-69, Cl. 200-148.
Leedy, Arthur A.; Pope, John T.; and Zimmerman, Harry M., to Seilon, Inc. Method for making roll-type dies for continuously producing flat mats. 3,426,421, 2-11-69, Cl. 29-529.
Leedy, Charles D., to Carlson, Arthur W. Schaap, Theodore, and Timmer, Henry. Dish retaining rack. 3,454,019, 7-8-69, Cl. 134-172.
Leedy, James B., to Tappan Company, The. Forced air electric oven. 3,474,225, 10-21-69, Cl. 219-400.
Leeke, Paul D.; and Bixler, David A., to Minnesota Mining and Manufacturing Company. Magnetic tape control system for multiple tape, uninterrupted recording and reproducing. 3,445,832, 5-20-69, Cl. 340-174.1
Leekley, Robert M.: *See—*
Byers, Donald J.; Leekley, Robert M.; and Murray, Margaret H.,3,474,071.
Leemetals Limited: *See—*
Stanway, Edward, 3,434,642.
Leenhouts, Albert C., to Superior Electric Company, The. Load responsive, stepping motor speed control circuit. 3,424,961, 1-28-69, Cl. 318-138.

Leenhouts, Albert C., to Superior Electric Company, The. Method of making a printed circuit board master. 3,445,921, 5-27-69, Cl. 29-527.2
Leenhouts, Albert C., to Superior Electric Company, The. Numerically controlled motor system. 3,466,517, 9-9-69, Cl. 318-18.
Leenhouts, Albert C.: *See*—
Madsen, Elmer W.; and Leenhouts, Albert C.,3,466,515.
Leep, Richard W.: *See*—
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C.,3,459,925.
Leep, Richard W.; and Pasley, Richard L., to Southwest Research Institute. Method and system for investigating the stress condition of magnetic materials. 3,427,872, 2-18-69, Cl. 73-88.5
Leeper, Johnnie L. Vehicle testing apparatus. 3,473,374, 10-21-69, Cl. 73-124.
Leeper, Le Roy J.; and Dierssen, Gunther H., to Minnesota Mining and Manufacturing Company. Fire extinguishing. 3,475,332, 10-28-69, Cl. 252-2.
Leersnijder, Carolus Pieter; and Lifschitz, Gabriel Zwy, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Thin metal marking and method for detecting the same. 3,473,111, 10-14-69, Cl. 324-41.
Lees, Harold D.: *See*—
Lahr, Roy J.; Evans, Paul F.; and Lees, Harold D.,3,459,946.
Lees, John; and Gunn, Duncan Alexander, to International Standard Electric Corporation. Feed mechanism for a hydrostatic extrusion system. 3,423,983, 1-28-69, Cl. 72-270.
Lees, Norman W.F.: *See*—
Rakestraw, James A.; and Lees, Norman W.F.,3,483,265.
Lees, Ray Frank: *See*—
Dutton, Hubert Wallace, Jr.; and Lees, Ray Frank,3,433,857.
Lees, Ronald D.: *See*—
Buhl, Frank C.; Lees, Ronald D.; and Monagle, Daniel J.,3,479,221.
Lees, Ronald D., to Hercules Incorporated. Waste treatment. 3,472,767, 10-14-69, Cl. 210-52.
Lees, Ronald D., to Hercules Incorporated. Separation of finely divided solids from liquid suspensions thereof. 3,479,284, 11-18-69, Cl. 210-54.
Lees, Ronald D., to Hercules Incorporated. Sewage flocculation. 3,480,541, 11-25-69, Cl. 210--018
Lees, Sidney; and Kinzie, George R., Jr. Printed phonotrack system with bandwidth reduction. 3,474,194, 10-21-69, Cl. 179-100.1
Lees, William McGawn. Golf practice device. 3,473,811, 10-21-69, Cl. 273-195.
Leeson, James L., Jr., to Governor, Woodward, Company. Electrical 3D cam. 3,483,364, 12-9-69, Cl. 235-197.
Leeson, Meldon Gerald; and Esser, Harold H., to Schneider Metal Manufacturing Co. Automatic ice cube maker. 3,423,949, 1-28-69, Cl. 62-73.
Leesona Corporation: *See*—
Aldrich, Donald D.; and Hilbert, Richard G., 3,484,032.
Anderson, Carl H., 3,481,441.
Arnold, Martin G., 3,474,324.
Bell, Charles C., 3,420,467.
Bell, Charles C., 3,423,046.
Bell, Charles C., 3,431,719.
Bell, Charles C.; and Niederer, Kurt, 3,445,995.
Boyhan, Matthew B.; and Venkatesan, Peruvemba Swaminatha, 3,443,933.
Brouwer, Charles W.; and Norris, Alan H., 3,434,673.
Brouwer, Charles W.; and Tata, Raymond V., 3,446,087.
Brouwer, Charles W., 3,462,935.
Brouwer, Charles W.; and Richter, Hans H., 3,464,452.
Brouwer, Charles W.; and Tata, Raymond V., 3,474,975.
Brouwer, Charles W.; and Richter, Hans H., 3,477,476.
Brouwer, Charles W.; Cruickshank, David G.; and Tata, Raymond V., 3,480,128.
Chodosh, Stewart M., 3,457,488.
Chodosh, Stewart M.; and Katsoulis, Emanuel G., 3,479,225.
De Rosa, Domenic J., 3,481,219.
Di Meglio, Joseph E., 3,445,074.
Dudzik, Chester J.; Fisher, Daniel V., Jr.; and Parkins, Guy E., 3,422,617.
Dudzik, Chester J.; and Perkins, Guy E., 3,430,432.
Forten, Jeremy; and Rissman, Edwin Francis, 3,467,554.
Giner, Jose D., 3,438,815.
Giner, Jose D., 3,467,551.
Giner, Jose D., 3,467,552.
Gunn-Russell, Charles, 3,445,671.
Gunn-Russell, Charles, 3,447,101.
Gunn-Russell, Charles, 3,448,347.
Gunn-Russell, Charles, 3,453,053.
Gunn-Russell, Charles, 3,456,116.
Houle, Roland O.; and Richter, Hans H., 3,424,359.
Jagid, Bruce; and Rosansky, Martin G., 3,468,711.
Kerrigan, James A.; and Morton, Robert E., 3,449,806.
Kershaw, Stanley C., 3,472,460.
Kollrack, Reiner H., 3,483,035.
McLachlan, Robert, 3,463,200.
Moser, James R., 3,444,003.
O'Brien, Willaim H., 3,480,217.
Oswin, Harry G.; and Chodosh, Stewart M., 3,436,270.
Oswin, Harry G., 3,479,226.
Pitts, Thomas E., 3,429,116.
Richter, Hans H., 3,436,835.
Richter, Hans H., 3,452,910.
Roberts, Frank, Jr., 3,471,287.
Sandager, William, 3,430,876.
Shippee, Fred Boswell; and Perkins, Guy Emmanuel, 3,425,208.
Siebenberg, Henry N.; and Breault, Richard D., 3,481,737.
Smith, Stanley W., 3,444,004.
Stoddard, Nicholas J.; and Stoddard, Robert W., 3,469,384.
Tillman, John E., 3,451,631.
Vandersip, Henry A., 3,472,108.
Venkatesan, Peruvemba Swaminatha; and Yarish, Melvin, 3,427,153.
Vertes, Michael A.; and Oswin, Harry G., 3,470,071.
Ward, Alan, 3,443,371.
White, Loren H., 3,467,553.
Whitney, William R., 3,449,902.
Leesona Limited: *See*—
Norton, John, 3,481,011.
Le Febre, David L.; and Kuehne, Walter, to Texas Instruments, Incorporated. Two axis automatic autocollimator. 3,470,377, 9-30-69, Cl. 250-204.
Lefebvre, Gilles: *See*—
Chauvin, Yves; and Lefebvre, Gilles,3,479,329.
Cuzin, Daniel; Chauvin, Yves; and Lefebvre, Gilles,3,476,731.
Lefebvre, Palma Adrien; and Gelhar, Willy Otto, to Palleon Electronics Limited. Flush valve actuating device. 3,462,768, 8-26-69, Cl. 4-67.
Le Febvre, Rene L. Geophysical tow buoy. 3,469,551, 9-30-69, Cl. 114-235.
Lefebvre, Yvon: *See*—
Ferland, Jean-Marie; and Lefebvre, Yvon,3,451,994.
Ferland, Jean-Marie; and Lefebvre, Yvon,3,462,413.
Le Febvre, Yvon: *See*—
Marshall, David J.; and Le Febvre, Yvon,3,455,906.
LeFebvre, Yvon, to American Home Products Corporation. 17α-[3'-Furyl]-estrane derivatives. 3,428,627, 2-18-69, Cl. 260-239.55
Lefebvre, Yvon, to American Home Products Corporation. 17-Tetrahydrofurylestradiol derivatives. 3,470,161, 9-30-69, Cl. 260-239.55
Lefebvre, Yvon; and Ferland, Jean Marie, to American Home Products Corporation. Steroidal 4-hydroxy-2-butenoic acid lactones. 3,431,258, 3-4-69, Cl. 260-239.57
Lefebvre, Yvon; and Ferland, Jean Marie, to American Home Products Corporation. 4,4-Dihydroxy-2-butenoic acid lactones. 3,436,390, 4-1-69, Cl. 260-239.57
Lefes, Mary S. Soundproof and heatproof slat for venetian blinds. 3,472,305, 10-14-69, Cl. 160-236.
Lefever, Robert A.; Chang, Nien-Chih; White, Robert L.; and Wickersheim, Kenneth A., to General Telephone & Electronics Laboratories, Incorporated. Europium doped yttrium oxide optical maser materials. 3,454,899, 7-8-69, Cl. 331-94.5
Lefevre, Jean; Prospert, Jacques; and Raggenbass, Andre, to Commissariat a l'Energie Atomique. Ion exchange materials and their method of preparation. 3,485,763, 12-23-69, Cl. 252-179.
Lefevre, Lloyd E.: *See*—
Breidt, Peter, Jr.; and Lefevre, Lloyd E.,3,432,588.
Lefevre, Lloyd Edward, to Dow Chemical Company, The. Method of producing colored plastic film or sheet. 3,423,498, 1-21-69, Cl. 264-171.
Lefevre, Lloyd Edward, to Dow Chemical Company, The. Process for crimping polypropylene filaments. 3,457,338, 7-22-69, Cl. 264-103.
Lefevre, Lloyd Edward; and Breidt, Peter, Jr., to Dow Chemical Company, The. Method of forming a composite multilayer film. 3,479,425, 11-18-69, Cl. 264-171.
Leff, Murray. Brick package and method of forming. 3,473,647, 10-21-69, Cl. 206-65.
Leff, Stanley S.: *See*—
Walles, Wilhelm E.; and Leff, Stanley S.,3,440,012.
Leffers, Hans Ulrik, to Danfoss A/S. Piston assembly, particularly for refrigeration compressors. 3,473,444, 10-21-69, Cl. 92-176.
Leffers, Hans Ulrik, to Danfoss A/S. Piston system with ball-head link. 3,482,487, 12-9-69, Cl. 92-176.
Leffers, Hans Ulrik; Valbjorn, Knud Vagn; and Holme, Bent Melchior Karlsen, to Danfoss A/S. Motor compressor especially for small refrigerating machines. 3,484,822, 12-16-69, Cl. 230-58.
Leffert, Charles B., to General Motors Corporation. Thermionic energy converter and nuclear reactor containing same. 3,455,781, 7-15-69, Cl. 176-39.
Leffert, Charles B.: *See*—
Jamerson, Frank E.; Leffert, Charles B.; and Rees, David B.,3,480,803.
Leffingwell, Earl W. Retaining means for excavating teeth. 3,469,332, 9-30-69, Cl. 37-142.

Leffingwell, John C., to SCM Corporation, mesne. Process for making 4,4hdimethyl-3-butenyl methyl ketones, intermediates therefor and the said intermediates. 3,420,827, 1-7-69, Cl. 260-247.2
Leffingwell, Lawrence B.; Taylor, Richard A.; and Chaffee, Linda P. Implement for repairing crawler type track. 3,472,022, 10-14-69, Cl. 59-7.
Leffler, Wiliam T.: *See—*
Howard, Arthur G.; and Leffler, Wiliam T.,3,448,619.
Lefillatre, Guy: *See—*
Rodi, Lucienne; and Lefillatre, Guy,3,483,128.
Le Flem, Roger, to Martin-Mailet & Cie. Electromagnetic pump. 3,431,859, 3-11-69, Cl. 103-53.
Lefler, Clarence Arthur; and Mittelstadt, Gerald D., to Kennecott Copper Corporation. Apparatus for precipitating metal values from a solution pregnant with such values. 3,479,020, 11-18-69, Cl. 266-22.
Leflet, Herbert A., Jr.; and Wampler, David M., to Libbey-Owens-Ford Company. Glass bending furnace with partitions defining separate longitudinally disposed heating areas. 3,457,060, 7-22-69, Cl. 65-288.
Leflet, Herbert A., Jr.: *See—*
Wampler, David M.; and Leflet, Herbert A., Jr.,3,433,616.
Lefort, Marcel Joseph Celestin: *See—*
Bazouin, Andre Rene Marcel; and Lefort, Marcel Joseph Celestin,3,441,584.
Bazouin, Andre Rene Marcel; Dunogues, Jacques Paul; and Lefort, Marcel Joseph Celestin,3,472,888.
Dunogues, Jacques Paul; Lefort, Marcel Joseph Celestin; and Puthet, Robert Raphael,3,445,200.
Boissieras, Jean; and Lefort, Marcel,3,444,225.
Le Foyer et Cie: *See—*
Rigondaud, Guy Frederic, 3,423,157.
Lefranc, Marcel, to North American Philips Company, Inc. Gas-expansion refrigerator. 3,431,750, 3-11-69, Cl. 62-514.
Lefrancois, Bernard: *See—*
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel,3,471,257.
Roth, Etienne; and Lefrancois, Bernard,3,479,140.
Leftault, Charles J., Jr., to Aluminum Company of America. Container and closure. 3,460,703, 8-12-69, Cl. 215-40.
Leftault, Charles J., Jr., to Aluminum Company of America. Protective closure for dry cell battery. 3,473,964, 10-21-69, Cl. 136-169.
Leftault, Charles J., Jr.; and La Barge, Robert L., to Aluminum Company of America. Method of making a dry cell battery provided with a protective closure. 3,473,967, 10-21-69, Cl. 136-175.
Leftin, Joseph P., to General Electric Company. Anti-foaming electrolyte for liquid level switch. 3,458,677, 7-29-69, Cl. 200-152.
Leftwich, James R., to Mallory, P. R., & Co., Inc. Temperature controlling and indicating device. 3,445,677, 5-20-69, Cl. 307-117.
Legal, Casimer C., Jr., to Grace, W. R., & Co. Apparatus for preparing a granular fertilizer. 3,482,945, 12-9-69, Cl. 23-259.2
Legal, Casimer C., Jr.; and Brackney, Harry S., to Grace, W. R., & Co. Process and product. 3,481,700, 12-2-69, Cl. 23-165.
Legal, Casimer C., Jr.; Richmond, Alvin; and Bruno, Anthony J., Jr., to Grace, W. R., & Co. Process for preparing an ammoniated phosphate slurry fertilizer. 3,433,617, 3-18-69, Cl. 71-43.
Legal, Casimer C., Jr.: *See—*
Dunseth, Maria G.; Legal, Casimer C., Jr.; and Veltman, Preston L.,3,437,379.
Funk, Andrew B.; Legal, Casimer C., Jr.; and Richmond, Alvin,3,421,879.
LeGall, Pierre: *See—*
Lucas, Pierre M.; Duquesne, Jean F.; LeGall, Pierre; and Rouzier, Michel M.,3,454,723.
Legat, Wilhelm H.; and Dixon, Alan F., to Raytheon Company. Small capacity semiconductor diode. 3,486,087, 12-23-69, Cl. 317-235.
Legat, Wilhelm H.; Russell, Lewis K.; and Rosvold, Warren C., to Raytheon Company. Microcircuit with complementary dielectrically isolated mesa-type active elements. 3,423,651, 1-21-69, Cl. 317-235.
Legat, Wilhelm H.: *See—*
Rosvold, Warren C.; and Legat, Wilhelm H.,3,447,235.
Legat, Wilhelm; and Russell, Lewis K., to Raytheon Company. Monolithic integrated circuitry with dielectric isolated functional regions. 3,471,922, 10-14-69, Cl. 29-580.
Legatti, Raymond H. Protective circuit. 3,422,314, 1-14-69, Cl. 317-19.
Legendre, Claude: *See—*
Hasquenoph, Jean; and Legendre, Claude,3,424,017.
Leger, Alton, Jr., to Honeywell, Inc. Electrical apparatus. 3,424,921, 1-28-69, Cl. 307-240.
Leger, Francois: *See—*
Chemla, Claude; Cramer, Claude; and Leger, Francois,3,462,738.
Leger, John E., to Union Carbide Corporation. Modular creel apparatus includng strand guides. 3,432,117, 3-11-69, Cl. 242-131.
Leger, Pierre, Andre Marcel, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques, de Telecommunications et d'Electronique 'Alcatel'. Refrigeration liquefaction device. 3,487,424, 12-30-69, Cl. 62-6.
Leger, Roland, to Etablissements L. Faiveley. Safety devices for power taps from overhead lines. 3,444,338, 5-13-69, Cl. 191-66.
Legere, Rene E.Painter's guide and guard. 3,429,296, 2-25-69, Cl. 118-504.
Legg, Alfred. Plugs. 3,425,476, 2-4-69, Cl. 152-370.
Legge, Norman R.; and Snyder, John L., to Shell Oil Company. Block copolymer-polyethylene compositions. 3,459,830, 8-5-69, Cl. 260-876.
Legge, Percy, to United Kingdom Atomic Energy Authority. Ultrasonic machining apparatus. 3,482,360, 12-9-69, Cl. 51-165.
Legge, Walter G. Body grounding device. 3,459,997, 8-5-69, Cl. 317-2.
Leggett and Platt Incorporated: *See—*
Kirchner, Carl O.; and King, John T., 3,469,608.
Leggett, James L. Vehicle steering control. 3,448,991, 6-10-69, Cl. 280-94.
Leggitt, S. H., Company: *See—*
Lee, Edward R., 3,451,589.
Leghorn, George R. Method of forming structural shapes from molten material by stream casting. 3,430,680, 3-4-69, Cl. 164-81.
Leghorn, George R. Method and apparatus for the forming of longitudinal structural shapes from cast tube. 3,445,922, 5-27-69, Cl. 29-527.6
Legion Utensils Co., Inc.: *See—*
Scavullo, Angelo C., 3,475,285.
Legler, Bobby, to Dow Chemical Company, The. Epoxy resin with diamine of polyoxypropylene glycol and method of cure. 3,462,393, 8-19-69, Cl. 260-47.
Legler, Ernst, to Fernseh GmbH. Circuit arrangement for making simultaneous, equal changes in the amplification of a plurality of electrical signals. 3,473,139, 10-14-69, Cl. 330-30.
Le Goff, Guillaume, to U.S. Philips Corporation. Apparatus for reducing the switching time of a dual voltage power supply. 3,448,372, 6-3-69, Cl. 323-22.
Le Goffic, Yves Henri: *See—*
Jousset, Antoine Marie; Jacquart, Christian Augustin; Le Goffic, Yves Henri; and Milon, Jean Emile,3,465,249.
Le Goupil, Louis Benjamin: *See—*
Savignat, Marcel; and Le Goupil, Louis Benjamin,3,451,390.
Legoux, Rene, to North American Philips Company, Inc. Device for manufacturing electron tubes. 3,427,088, 2-11-69, Cl. 316-31.
Le Grady, Carl F. Float controlled metering and shutoff valve. 3,459,214, 8-5-69, Cl. 137-420.
Legrain, Michel. Automatic apparatus for preparing and dispensing fluid food. 3,473,516, 10-21-69, Cl. 119-71.
Legrand, Louis Francois Georges, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Vibration attenuating method and electrohydraulic attenuator for rotary-wing aircraft. 3,477,665, 11-11-69, Cl. 244-17.27
Legrand, Roger, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Large-capacity bellows-type hydraulic reservoir. 3,456,673, 7-22-69, Cl. 137-202.
Leguen de Lacroix, George Rancliffe Jehan Eugene, to General Motors Corporation. Variable-ratio lever mechanisms. 3,466,943, 9-16-69, Cl. 74-516.
Legut, Ljudmila Vasilievna: *See—*
Polovets, Lidia Mikhailovna; Belitchenko, Valentina Ilinichna; and Legut, Ljudmila Vasilievna,3,444,587.
Le Hardy, Clement D., to Sonoco Products Company. Expansible chuck for tubular core. 3,432,112, 3-11-69, Cl. 242-68.2
Lehfeldt, Dr., & Co. G.m.b.H.: *See—*
Pohlman, Reimar; and Sievers, Roland, 3,426,951.
Lehigh Furniture Corporation: *See—*
Fields, Irving; Schneiderman, Alvin R.; and Tiffany, Harry R., III, 3,443,782.
Lehikoinen, Urho A., to Ethyl Corporation. Thiobis-benzyl cresol. 3,474,147, 10-21-69, Cl. 260-609.
Lehle, Robert, to Feinwerkbau Westinger & Altenburger KG, Messrs. Gear units for counters. 3,438,278, 4-15-69, Cl. 74-435.
Lehman, Charles L. Cultivator. 3,452,826, 7-1-69, Cl. 172-551.
Lehman, Don F.; and Varner, Donald E., to Industrial Nucleonics Corporation. Air gap conditioning system for a radiation gauge. 3,426,200, 2-4-69, Cl. 250-83.3
Lehman, Herbert S.: *See—*
Barson, Fred; and Lehman, Herbert S.,3,461,360.
Lehman, Ira S. Compound support. 3,441,027, 4-29-69, Cl. 128-578.
Lehman, Jean-Yves: *See—*
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel,3,471,257.
Lehman, Leon M., to Hydrocarbon Research, Inc. Method for minimizing hydrogen losses in high pressure processes. 3,444,072, 5-13-69, Cl. 208-102.
Lehman, Lewis M.: *See—*
Cinatl, Fred J.; and Lehman, Lewis M.,3,478,299.
Lehman, Meir M.; and Rosenfeld, Jack L., to International Business Machines Corporation. Control system for maintaining register contents during interrupt and branch conditions in a digital computer. 3,440,619, 4-22-69, Cl. 340-172.5

Lehman, William E.; Meade, Billy D.; and Featherston, John P. Preparation of asphalt paving material. 3,482,824, 12-9-69, Cl. 259-148.
Lehmann, Albert F. Apparatus for feeding strip metal. 3,429,493, 2-25-69, Cl. 226-150.
Lehmann, Albert F. Feeding sheet metal. 3,438,557, 4-15-69, Cl. 226-8.
Lehmann, Albert F. Running press feed. 3,485,080, 12-23-69, Cl. 72-421.
Lehmann, Charles David; and Younger, Maurice Bowman, Jr., to Hopeman Brothers, Inc. Shock resistant furniture latch. 3,473,834, 10-21-69, Cl. 292-175.
Lehmann, Curt, to VEB Tabak- und Industriemaschinen Dresden. Device for driving package-forming jaws of a packing machine. 3,485,010, 12-23-69, Cl. 53-285.
Lehmann, George E. Combination ice fishing chair and sled. 3,436,119, 4-1-69, Cl. 297-217.
Lehmann, Guenther W.; and Adams, Alden W., Jr., to General Dynamics Corporation. Buoyant floats for docking and towing seacraft. 3,448,712, 6-10-69, Cl. 114-43.5
Lehmann, Hans-Gunter: *See*—
Engelfried, Otto; Lehmann, Hans-Gunter; Neumann, Friedmund; and Wiechert, Rudolf,3,444,295.
Lehmann, Harold Adolf, to Case, J. I., Company. Hydraulic pressure relief valve unit. 3,433,240, 3-18-69, Cl. 137-108.
Lehmann, Herbert G., to Norco, Inc. Quick-release universal-movement coupling. 3,482,291, 12-9-69, Cl. 24-230.
Lehmann, Joachim: *See*—
Peters, Werner; and Lehmann, Joachim,3,475,278.
Lehmann, John W. Glare-inhibiting device. 3,454,301, 7-8-69, Cl. 296-97.
Lehmann, Klaus. Manufacture of packing trays produced in moulded plastic, in particular moulded plastic sheet. 3,447,731, 6-3-69, Cl. 229-2.5
Lehmann, Rolf: *See*—
Scheiber, Werner; Walter, Peter; Lehmann, Rolf; and Kowarik, Klaus,3,476,668.
Lehmann, Wolfgang: *See*—
Kirschnek, Helmut; Lehmann, Wolfgang; and Quaedvlieg, Mathieu,3,441,435.
Lehmkuhl, Herbert, to Studiengesellschaft Kohle m.b.H. process for the preparation of new dialkyl aluminum-aromatic complex compounds. 3,470,224, 9-30-69, Cl. 260-448.
Lehmkuhl, Robert A.; and Reed, Robert E., to Giddings & Lewis Inc. Mechanisms for tool changers. 3,452,427, 7-1-69, Cl. 29-568.
Lehmkuhl, Robert, to Carlton Machine Tool Company, The. Automatic tool changer. 3,451,125, 6-24-69, Cl. 29-568.
Lehn, John U., to Woodstream Corporation. Animal traps. 3,426,471, 2-11-69, Cl. 43-92.
Lehner, Wilhelm. Driver's seat especially for tractors or the like. 3,442,552, 5-6-69, Cl. 297-334.
Lehner, Wilhelm. Spring-mounted vehicle seat. 3,482,871, 12-9-69, Cl. 297-325.
Lehner, William L., to Motorola, Inc. Lead frame members for semiconductor devices. 3,431,092, 3-4-69, Cl. 29-193.5
Lehnerer, George J., to Allis-Chalmers Manufacturing Company. Timing advance mechanism. 3,486,492, 12-30-69, Cl. 123-139.
Lehnert, Stanley E., to Ampex Corporation. Vidicon camera circuit. 3,453,487, 7-1-69, Cl. 315-30.
Lehnhardt, Stanley E.; and Steetle, David R., to Texas Instruments, Incorporated. Apparatus and method for digital to analog conversion. 3,473,153, 10-14-69, Cl. 340-172.5
Lehoczky, Ernest. Adjustable clamp for coiling hose. 3,425,099, 2-4-69, Cl. 24-81.
Lehovec, Kurt, to Inventors and Investors, Inc. Photoelectric surface induced p-n junction device. 3,473,032, 10-14-69, Cl. 250-211.
Lehr, Hanns Hanina, to Hoffmann-La Roche, Inc. Sulfanilamide derivatives and processes. 3,459,742, 8-5-69, Cl. 260-239.75
Lehr, Hanns H.; and Mitrovic, Milan, to Hoffmann-La Roche Inc. 4-(1,2,3,4,5,6,7,8-Octahydro-1,8-dioxo-9- acridanyl)-benzenesulfonamide and derivatives. 3,454,577, 7-8-69, Cl. 260-279.
Lehr, John Dalton; and Wells, John Lee, to Huber, J. M., Corporation. Method for controlling carbon black furnaces. 3,471,260, 10-7-69, Cl. 23-209.4
Lehrer, Erwin; and Teltschik, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for the production of gases containing acetylene. 3,460,915, 8-12-69, Cl. 23-277.
Lehrer, Erwin; and Woellhaf, Josef, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous wet grinding of solid materials in tube mills. 3,437,275, 4-8-69, Cl. 241-15.
Lehrer, Robert, to Du Pont de Nemours, E. I., and Company. Wound film capacitors. 3,457,478, 7-22-69, Cl. 317-260.
Lehrer, Stanley, to Fairfield Technology Corporation. Incandescent light source. 3,481,679, 12-2-69, Cl. 431-158.
Lehrer, William I., to Fairchild Camera and Instrument Corporation. Laminated passivating structure. 3,475,210, 10-28-69, Cl. 117-215.
Lehrer, William I., to Fairchild Camera and Instrument Corporation. Method of forming gallium arsenide films by vacuum deposition techniques. 3,476,593, 11-4-69, Cl. 117-201.
Lehrman, David, to Ironees Company, The. Collapsible clothes caddy and table. 3,447,488, 6-3-69, Cl. 108-28.
Lehtinen, Antti Ilmari, to Valmet OY. Method for testing pulp slurry on the forming wire of a paper machine. 3,442,756, 5-6-69, Cl. 162-192.
Lehtola, Erkki T., to Oy Tahka AB. Load transporting and dumping conveyor. 3,435,942, 4-1-69, Cl. 198-155.
Lehtonen, Edwin W., to Friden, Inc. Manufacture of circuit modules using etched molds. 3,438,127, 4-15-69, Cl. 29-625.
Lehureau, Jean; and Pierrot, Francois, to Progil. Preparation of alpha-naphthyl alkyl-carbamates. 3,426,064, 2-4-69, Cl. 260-479.
Lei, Jorgen C. C.; and Clauson-Kaas, Niels, to Geigy Chemical Corporation. Process for preparing 5-chloro-2,3-pyridine diol. 3,471,506, 10-7-69, Cl. 260-297.
Leib, Joseph, to Domtar Limited. Preparation of ring-halogenated arylsulfenyl halides. 3,474,139, 10-21-69, Cl. 260-543.
Leib, Robert I.; and Morita, Eiichi, to Monsanto Company. Method of vulcanizing butyl rubber. 3,426,003, 2-4-69, Cl. 260-79.5
Leibach, Heinrich; and Vedova, Ralph, to M.A.N. Turbo G.m.b.H. Fuel supply for afterburner. 3,434,289, 3-25-69, Cl. 60-232.
Leibach, Raymond E., to Esso Production Research Company. Use of wireline tools in well operations. 3,474,867, 10-28-69, Cl. 166-315.
Leibee, Joseph Bruce, to Du Pont de Nemours, E. I., and Company. Article of manufacture. 3,426,825, 2-11-69, Cl. 152-361.
Leibenzeder, Siegfried: *See*—
Merkel, Hans; and Leibenzeder, Siegfried,3,480,394.
Leiber, Heinz: *See*—
Wehde, Heinz; and Leiber, Heinz,3,425,751.
Leiber, Heinz, to Teldix Luftfahrt-Ausrustungs G.m.b.H. Vehicle brake control system for preventing wheel locking. 3,467,444, 9-16-69, Cl. 303-21.
Leibert, Edward E. Inclinometer or accelerometer. 3,464,276, 9-2-69, Cl. 73-516.
Leibfritz, Kurt Willy Hjlmar, to Parker-Hannifin Corporation. Solenoid controlled valve. 3,425,449, 2-4-69, Cl. 137-625.64
Leibfritz, Kurt W.: *See*—
Lansky, Zdenek J.; and Leibfritz, Kurt W.,3,420,257.
Leibinger, Berthold, to Trumpf & Co. Slotshear for slotting plates of metal, plastic, etc., and including a reciprocating ram. 3,473,427, 10-21-69, Cl. 83-527.
Leibold, Eldon L. Air treating apparatus for sheet material separator. 3,425,686, 2-4-69, Cl. 271-26.
Leibowitz, Alec, to Spectrum Diamonds (Proprietary) Limited. Holders for gem stones. 3,466,812, 9-16-69, Cl. 51-229.
Leibowitz, Alec, to Spectrum Diamonds (Proprietary) Limited. Holders for gem stones. 3,466,813, 9-16-69, Cl. 51-229.
Leibowitz, Martin L.; and Knight, Sanford, to Commercial Carpet Corporation. Package for rolled articles and method therefor. 3,458,032, 7-29-69, Cl. 206-59.
Leibowitz, Marvin R.; and Grosser, Frederick, to GAF Corporation. Graft copolymers of α-olefins and preformed, water-insoluble, homopolymer of N-vinyl- 2-pyrrolidone. 3,479,417, 11-18-69, Cl. 260-878.
Leibson, Abraham; and Griffin, Edward J., to Container Corporation of America. Food package. 3,423,005, 1-21-69, Cl. 229-14.
Leibundgut, James A., to Applied Power Industries, Inc. Relief valve for fluid motor. 3,463,053, 8-26-69, Cl. 91-240.
Leibundgut, Max, to Paillard S.A. Cinematographic or photographic filming apparatus. 3,427,943, 2-18-69, Cl. 95-11.
Leiby, David W.: *See*—
Creek, Kenneth O.; and Leiby, David W.,3,475,825.
Leiby, Harold E.: *See*—
Brown, Arthur S.; Leiby, Harold E.; and Miller, Earle A.,3,455,078.
Leichsenring, Max. Signalling means for indicating change in speed of an automotive vehicle. 3,439,325, 4-15-69, Cl. 340-71.
Leichter, Peter: *See*—
Knotik, Karl; Leichter, Peter; and Wagner, Harald,3,453,091.
Leidenfrost, Reinhold. Process for the manufacture of gap or labyrinth seals. 3,465,425, 9-9-69, Cl. 29-527.7
Leidich, Arthur J., to Radio Corporation of America. Direct coupled amplifier with feedback for D. C. error correction. 3,444,476, 5-13-69, Cl. 330-69.
Leidich, Arthur J., to Radio Corporation of America. Phase splitting circuit for a direct coupled push-pull amplifier. 3,445,776, 5-20-69, Cl. 330-15.
Leidigh, William I: *See*—
Lien, Erling L.; and Leidigh, William I,3,483,420.
Leidigh, William J., to Varian Associates. Microwave linear beam tube employing an extended interaction resonator operating on an odd pi mode. 3,453,483, 7-1-69, Cl. 315-5.39
Leidigh, William J.: *See*—
Lien, Erling L.; and Leidigh, William J.,3,448,325.
Leidvik, Martin: *See*—
Ahlgren, Hans H.; and Leidvik, Martin,3,441,097.
Leidy, Lester R., Jr.; and Aldinger, Paul A., to Honeywell Inc. Dual lifters for a recording pen. 3,441,945, 4-29-69, Cl. 346-68.
Leifeld, Ferdinand: *See*—
Quoos, Kurt; and Leifeld, Ferdinand,3,436,935.

Leifield, Robert F., to Mallinckrodt Chemical Works. Chromatographic process. 3,455,818, 7-15-69, Cl. 210-31.
Leiga, Algird G.; Gallo, Charles F.; and Walder, Roy A., to Xerox Corporation. Selective flash fusing. 3,474,223, 10-21-69, Cl. 219-216.
Leiga, Algird G.; and McInally, John A, to Xerox Corporation. Electric lamp for uniformly charging the photo- conductive insulating layer of a xerographic plate. 3,453,427, 7-1-69, Cl. 250-42.
Leiga, Algird G.: *See—*
Roth, Walter; Gallo, Charles F.; and Leiga, Algird G.,3,481,669.
Leigh, Bertram J.: *See—*
Fitel, Jay M.; and Leigh, Bertram J.,3,480,109.
Leigh, Bertram J., to Telsta Corporation. Boom structure. 3,423,890, 1-28-69, Cl. 52-118.
Leigh, Gilbert Merlin: *See—*
Barnhurst, James Douglas; Leigh, Gilbert Merlin; and Monick, John Alexander,3,442,812.
Leigh, Jonathan W., to Freeman, Einson, and De Troy Corporation. Knock-down display assembly. 3,469,335, 9-30-69, Cl. 40-124.1
Leigh, Steven. Devices for dispensing paste-like materials. 3,468,458, 9-23-69, Cl. 222-94.
Leigh, Theodore M.: *See—*
Bailey, Kenneth E.; Frahm, Leland J.; and Leigh, Theodore M.,3,437,157.
Leighton, Jack R.: *See—*
Hembd, William H.; and Harrand, James H., 3,429,052.
Leighty, Ronald: *See—*
Winter, Leonard; and Leighty, Ronald,3,473,598.
Leikarts, Aldis Juris: *See—*
Grubb, Gary L.; and Leikarts, Aldis Juris,3,485,381.
Leilich, Hans-Otto G.; Rhodes, William H., Jr.; and Shutler, William F., to International Business Machines Corporation. Chain store magnetic memory array. 3,444,531, 5-13-69, Cl. 340-174.
Leilich, Hans-Otto G.; and Schmeckenbecher, Arnold F., to International Business Machines Corporation. Chain magnetic memory element. 3,478,335, 11-11-69, Cl. 340-174.
Leilich, Hans-Otto G.: *See—*
Anderson, John L.; and Leilich, Hans-Otto G.,3,436,747.
Leimbach, John George, to Sporlan Valve Company. Liquid pressure control for refrigeration system. 3,438,217, 4-15-69, Cl. 62-196.
Leimbacher, Erwin, to Heberlein & Co., AG. Fabric dyeing by transferring by heating or solubilizing a dye from an electrostatically deposited, heat or solvent fused water soluble dielectric carrier. 3,454,347, 7-8-69, Cl. 8-2.
Lein, Juergen G. A.: *See—*
Carper, Robert L.; Lein, Juergen G. A.; Miller, Donald J.; Schmidlin, Raymond J.; and Verderber, Joseph A.,3,426,678.
Leinauer, Erich: *See—*
Greulich, Heinz; Schumacher, Karl; Leinauer, Erich; and Widl, Gerhard,3,471,824.
Leinbach, Richard K.: *See—*
Stoever, Hans O.; and Leinbach, Richard K.,3,482,574.
Leiner, William. Thermostatic switch having elements responsive to ambient temperature and current flow. 3,470,512, 9-30-69, Cl. 337-35.
Leinhauser, Joe Paul: *See—*
Fairbank, Raymond Harry; Leinhauser, Joe Paul; and Burrough, Donald E.,3,474,607.
Leinhauser, Joe Paul; Fairbank, Raymond Harry; Burrough, Donald E.; and Barnes, Theodore Marion, to Deere & Company. Hydraulic drive and steering controls for an agricultural machine. 3,459,273, 8-5-69, Cl. 180-6.48
Leininger, Robert I.; and Grode, Gerald A., to United States of America, Health, Education, and Welfare. Nonthrombogenic plastic surfaces and preparation thereof. 3,457,098, 7-22-69, Cl. 117-62.1
Leininger, Robert I.; Spencer, Joy L.; and Vorys, Nichols D., to Holland-Rantos Company, Inc. Intrauterine contraceptive device. 3,454,004, 7-8-69, Cl. 128-130.
Leis Manufacturing Co., Inc.: *See—*
Stumpf, Charles A., 3,460,294.
Leiser, Henry. Picture hangers. 3,482,812, 12-9-69, Cl. 248-493.
Leiser, Roger S.: *See—*
Darr, Donald E.; Leiser, Roger S.; Loehr, Clifford E.; and Richardson, Kenneth W.,3,423,186.
Leisey, Frank A., to Standard Oil Company, (Indiana). Method and apparatus for measuring reactive constituents. 3,462,244, 8-19-69, Cl. 23-230.
Leisinger, Karl-Friedrich; and Rudiger, Christian, to Wasag-Chemie Aktiengesellschaft. Switching system for successive ignition of firing devices at delayed intervals. 3,424,924, 1-28-69, Cl. 307-252.
Leisle, Thomas M.: *See—*
Hughes, John F., Jr.; and Leisle, Thomas M.,3,458,415.
Leister, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Mixing apparatus having concentric worm members. 3,452,965, 7-1-69, Cl. 259-6.
Leister, Norman A., to Rohm & Haas Company. Formamido-containing alkenylsuccinates. 3,451,933, 6-24-69, Cl. 252-51.5
Leisterer, Reinhard Wilhelm, to Fried Krupp Gesellschaft mit beschrankter Haftung. Apparatus for improving the recognition of echoes in sonar systems. 3,474,401, 10-21-69, Cl. 340-3.
Leisterer, Reinhard W.; and Hemmie, Gerd, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for measuring the direction of incident waves. 3,452,326, 6-24-69, Cl. 340-6.
Leisterer, Reinhard W.: *See—*
Ziehm, Gunter; Triebold, Karl-Friedrich; Schief, Alfred; and Leisterer, Reinhard W.,3,464,056.
Leistiko, Otto: *See—*
Grove, Andrew S.; Leistiko, Otto; and Whittier, Ronald J.,3,463,977.
Leistner, Walter Herman. Fastener member. 3,480,061, 11-25-69, Cl. 151-41.73
Leistner, Walter. Transfer device for nut fastening machine. 3,460,217, 8-12-69, Cl. 29-33.
Leistner, William E.: *See—*
Kauder, Otto S.; Leistner, William E.; and Hecker, Arthur C.,3,476,699.
Leisure Group, Inc., The: *See—*
Karbo, Richard S., 3,452,930.
Leite, Rogerio C. C.: *See—*
Damen, Theodoor C.; Leite, Rogerio C. C.; and Porto, Sergio P. S.,3,434,779.
Leiter, Harry. Scanning and recording means for detecting radioactive distributions. 3,465,145, 9-2-69, Cl. 250-71.5
Leiter, Harry. Surgical apparatus. 3,478,744, 11-18-69, Cl. 128-303.14
Leiter, Howard A.: *See—*
Crowe, Kenneth R.; and Leiter, Howard A.,3,445,709.
Leiter, Leigh D.; and Linda, Frank R., to International Paper Company. Container handle. 3,481,528, 12-2-69, Cl. 229-52.
Leiter, Leigh D.: *See—*
Linda, Frank R.; and Leiter, Leigh D.,3,484,515.
Mitzelfelt, Richard C.; Leiter, Leigh D.; and Junod, John E.,3,422,730.
Leith, Emmett N.: *See—*
Blikken, Wendell A.; Cutrona, Louis J.; Ingalls, Arthur L.; Leith, Emmett N.; and Porcello, Leonard J.,3,427,104.
Leith, Emmett N., to United States of America, Air Force. Plural channel optical data processor. 3,443,861, 5-13-69, Cl. 350-162.
Leitmann, William J., to Hobson Bros. Inc. Electrical connector. 3,486,162, 12-23-69, Cl. 339-61.
Leitner, Hans: *See—*
Beck, Fritz; Leitner, Hans; Wintersberger, Karl; and Guthke, Harald,3,477,923.
Leitner, Joseph: *See—*
Hamilton, Joel A.; Faro, Anthony E., Jr.; and Leitner, Joseph,3,438,175.
Leitner, Robert T., to Technical Appliance Corporation. Loop antenna with negative resistance element at terminating gap. 3,441,935, 4-29-69, Cl. 343-701.
Leitner, Robert T., to Technical Appliance Corporation. Radomes. 3,444,558, 5-13-69, Cl. 343-872.
Leitsmann, Reinhard: *See—*
Dannhauser, Kurt; Wiedemann, Otto; and Leitsmann, Reinhard,3,484,461.
Leitz, Ernst, G.m.b.H.: *See—*
Becker, Helmut; Jensen, Kurt; Leitz, Ernst; and Rinker, Walter, 3,484,149.
Bohmer, Hellmut, 3,463,567.
Bromer, Heinz; Meinert, Norbert; and Ahl, Demetrius, 3,446,638.
Bromer, Heinz; and Meinert, Norbert, 3,451,829.
Bromer, Heinz; and Meinert, Norbert, 3,477,863.
Bromer, Heinz; and Meinert, Norbert, 3,486,915.
Broschke, Heinrich; Holle, Werner; and Wiessner, Willi, 3,427,946.
Frenk, Helmut, 3,466,130.
Frenk, Helmuth, 3,450,934.
Hock, Fromund, 3,421,011.
Hock, Fromund, 3,454,776.
Hock, Fromund, 3,482,107.
Hubner, Erwin, 3,486,817.
Huttel, Gottfried, 3,483,626.
Klein, Walter, 3,443,862.
Klein, Walter, 3,454,321.
Klein, Walter, 3,458,244.
Leitz, Ludwig; and Broschke, Heinrich, 3,446,126.
Marx, Helmut; and Sindel, Paul, 3,459,468.
Mulch, Hans, 3,464,767.
Ruehl, Rudolf, 3,467,464.
Schmidt, Ewald, 3,468,233.
Schmidt, Horst; and Bohmer, Hellmut, 3,464,757.
Schmidt, Horst, 3,464,770.
Weber, Klaus, 3,421,806.
Weissenberg, Gustav, 3,479,512.
Leitz, Ernst: *See—*
Becker, Helmut; Jensen, Kurt; Leitz, Ernst; and Rinker, Walter,3,484,149.
Leitz, Ludwig; and Broschke, Heinrich, to Leitz, Ernst, GmbH. Camera of the still and motion picture type. 3,446,126, 5-27-69, Cl. 95-10.

Leitzel, Ammon M., to Jarman-Williamson Company. Enclosed leg golf cart suspension. 3,433,497, 3-18-69, Cl. 280-40.
Lejeune, Daniel, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Device for protecting vessels against excessive fluid pressure. 3,443,721, 5-13-69, Cl. 220-89.
Lejeune, Daniel, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Hose for pumping slurries. 3,447,571, 6-3-69, Cl. 138-138.
Lejeune, Daniel, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Couplings for pipes and hoses. 3,453,008, 7-1-69, Cl. 285-149.
Le Jeune, Raymond E., to Teletype Corporation. Tape handling mechanism. 3,451,634, 6-24-69, Cl. 242-55.11
Lekhovitser, Moisei Alexandrovich: *See*—
Khachijan, Alexei Sergeevich; Skuinj, Alexandr Kasparovich; Lekhovitser, Moisei Alexandrovich; Linich, Viktor Vladimirovich; Shapovalov, Sergei Vasiljavich; and Ocheretin, Ivan Vasiljevich,3,480,418.
Lektro-Vend Corporation: *See*—
Albright, Henry J.; and Smith, Royal F., 3,460,661.
Lelak, John W., to Dresser Industries, Inc. Furnace roof construction. 3,453,787, 7-8-69, Cl. 52-89.
Leland, James F.; and Russell, William S., to Hooker Chemical Corporation. Method for operating chemical processing solutions. 3,481,797, 12-2-69, Cl. 148-6.14
Leland, Robert D., to Multi-Elmac Company. Modulated subcarrier control circuit responsive to a voltage having a pass frequency and exceeding a predetermined level for a predetermined time. 3,438,037, 4-8-69, Cl. 343-225.
Leland Stanford Junior University, the board of trustees of the: *See*—
New, William; and Newcomb, Robert W., 3,478,226.
L'Electro-Refractaire:*See*—
Delrieux, Jean Louis, 3,484,511.
L'Electronique Appliquee:*See*—
Franchi, Pierre, 3,486,377.
Lelicoff, Jhon. Liquid eyewash dispensing device including eyelid engaging means. 3,439,674, 4-22-69, Cl. 128-233.
Lelis, John. Machinery gauge. 3,442,021, 5-6-69, Cl. 33-180.
Lellep, Otto George; and Helming, Bernd, to Polysius G.m.b.H. Device for the periodic delivery of preheated material. 3,436,060, 4-1-69, Cl. 263-29.
Lello, Giles S., to Globe Union Inc. Storage battery plates and method of manufacture. 3,433,674, 3-18-69, Cl. 136-26.
Lellos, Solon P., to Stored Energy Systems Corporation. Hydromechanical power generator. 3,447,474, 6-3-69, Cl. 103-68.
Lely Corporation, The: *See*—
Singleton, Henry Lavon, 3,473,739.
Lely Ltd.: *See*—
van der Lely, Cornelis, 3,447,787.
Lem, Donald J.; and Spruth, Wilhelm G., to International Business Machines Corporation. Switching logic for a two-dimensional memory. 3,432,815, 3-11-69, Cl. 340-173.
Lemahieu, Ronald Andrew: *See*—
Kierstead, Richard Wightman; and Lemahieu, Ronald Andrew,3,484,489.
Le Mair, Willem; Peek, Johannes Bernard Heinrich; and Valster, Frederik, to U.S. Philips Corporation. Radar system. 3,440,653, 4-22-69, Cl. 343-9.
Lemaire, Henry: *See*—
Lamberti, Vincent; and Lemaire, Henry,3,427,248.
Lamberti, Vincent; and Lemaire, Henry,3,450,756.
Lamberti, Vincent; and Lemaire, Henry,3,468,949.
LeMaistre, John W.; and Sherman, Albert H., to Atlas Chemical Industries, Inc. Process for preparing aniline and alkyl aniline. 3,427,355, 2-11-69, Cl. 260-580.
Lemaistre, Rene: *See*—
Biarnais, Paul; Alheritiere, Louis; Gobron, Georges; Mercier, Jules; Meunier, Gaston; and Lemaistre, Rene,3,483,151.
Bourguignon, Pierre; and Lemaistre, Rene,3,451,984.
Leman, Hugh Spence; and Barnes, George John Preston, to International Standard Electric Corporation. Telephone sets. 3,448,217, 6-3-69, Cl. 179-81.
Leman, Hugh Spence; Barnes, George John Preston; and Green, John Uvedale, to International Standard Electric Corporation. Magnetic tape record editing apparatus. 3,440,362, 4-22-69, Cl. 179-100.2
Le Marr, Wesley Albert, to Pro-Gramo, Inc. Self-training device for students. 3,482,329, 12-9-76, Cl. 35-9.
le Masson, Yves, to Societe Industrielle des Etablissements Piel (S.I.D.E.P.). Regulators of a gas required for breathing of the pneumatic valve type. 3,467,136, 9-16-69, Cl. 137-489.
Le Master, Harold A. Tail assembly for artificial fishing lure. 3,423,868, 1-28-69, Cl. 43-42.33
Le Masters, Paul D., to General Motors Corporation. Electronic speedometer and odometer control circuit. 3,477,022, 11-4-69, Cl. 324-70.
Lematta, Wesley G. Apparatus for securing warning markers to cables. 3,430,325, 3-4-69, Cl. 29-203.
Lemberg, Ernst Siegfried: *See*—
Thorn, Ewald Reinhard; Weber, Wilhelm; Lemberg, Ernst Siegfried; and Blanche, Josef,3,437,212.
Lemberg, Mark Eleazarovich: *See*—
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Jakov Benediktovich,3,447,332.
Lembo, Frank. Web guiding roller and support. 3,425,608, 2-4-69, Cl. 226-19.
Lembo, Sabino: *See*—
Viterbo, Rene; Mastursi, Michele; and Lembo, Sabino,3,457,264.
Le Mehaute, Charles; Rocher, Edouard; Guesnier, Guy; and Vaesken, Roland, to International Business Machines Corporation. Method of electrodepositing a magnetic coating on a chain-like memory element. 3,442,774, 5-6-69, Cl. 204-24.
Lemelson, Jerome H. Extrusion apparatus. 3,422,648, 1-21-69, Cl. 72-8.
Lemelson, Jerome H. Packaging assembly. 3,426,959, 2-11-69, Cl. 229-65.
Lemelson, Jerome H. Ducted panel fabrication. 3,427,714, 2-18-69, Cl. 29-626.
Lemelson, Jerome H., to Dow Chemical Company, The. Method for coating pipe. 3,432,326, 3-11-69, Cl. 117-18.
Lemelson, Jerome H. Record card scanning apparatus. 3,434,130, 3-18-69, Cl. 340-174.1
Lemelson, Jerome H. Method of making heat transfer panelling. 3,436,816, 4-8-69, Cl. 29-611.
Lemelson, Jerome H. Matte structure and method of producing same. 3,437,783, 4-8-69, Cl. 219-117.
Lemelson, Jerome H. Toy track and vehicle therefor. 3,451,161, 6-24-69, Cl. 46-241.
Lemelson, Jerome H. Method for producing composite articles. 3,461,197, 8-12-69, Cl. 264-172.
Lemelson, Jerome H. Electrical circuit fabrication. 3,461,347, 8-12-69, Cl. 317-101.
Lemelson, Jerome H. Molding techniques and apparatus. 3,462,524, 8-19-69, Cl. 264-255.
Lemelson, Jerome H. Aircraft structures and systems. 3,467,348, 9-16-69, Cl. 244-130.
Lemelson, Jerome H. Printing device. 3,468,252, 9-23-69, Cl. 101-379.
Lemelson, Jerome H. Container manufacture. 3,472,723, 10-14-69, Cl. 156-500.
Lemelson, Jerome H., to Triax Company, The. Control means to prevent collision of a load carrier with an article on a conveyor means. 3,474,919, 10-28-69, Cl. 214-16.4
Lemelson, Jerome H. Automatic measurement system. 3,476,481, 11-4-69, Cl. 356-167.
Lemelson, Jerome H. Surface sensing apparatus. 3,481,042, 12-2-69, Cl. 33-174.
Lemelson, Jerome H., to Triax Company, The. Multi-speed control system for a load carrier in a warehouse system. 3,486,640, 12-30-69, Cl. 214-16.4
Lemen, William T., to General Motors Corporation. Automatic means for producing a microelectronic device. 3,442,053, 5-6-69, Cl. 51-8.
Lemery, Douglas J.: *See*—
Anderson, Roy H.; and Lemery, Douglas J.,3,425,260.
Lemery, Raymond E.; and Newell, Norvin E., to Ingersoll Milling Machine Company, The. Boring machine with power actuated tooth adjustment. 3,457,811, 7-29-69, Cl. 77-57.
Lemforder Kunststoff G.m.b.H., : *See*—
Bechtloff, Gert; and Szonn, Reinhold, 3,429,420.
Lemieux, Raymond Urgel; and Raap, Rintje, to R & L Molecular Research Ltd. Thiadiazolylisothiazoles. 3,464,999, 9-2-69, Cl. 260-302.
Lemieux, Raymond Urgel: *See*—
Micetich, Ronald George; and Lemieux, Raymond Urgel,3,465,000.
Raap, Rintje; and Lemieux, Raymond Urgel,3,468,874.
Raap, Rintje; Lemieux, Raymond Urgel; and Micetich, Ronald George,3,476,743.
Lemieux, Raymond U.; and Micetich, Ronald G., to R & L Molecular Research Ltd. Certain substituted isoxazoles. 3,476,765, 11-4-69, Cl. 260-302.
Lemin, Alan J., to Upjohn Company, The. Herbicidal N,N-dialkenyl-3-chlorobenzamides and method. 3,436,208, 4-1-69, Cl. 71-118.
Lemin, Alan J., to Upjohn Company, The. *p*-Isothiocyanatobenzoates as herbicides. 3,449,112, 6-10-69, Cl. 71-104.
Lemin, Alan J., to Upjohn Company, The. Phenylisothiocyanates as herbicides. 3,480,424, 11-25-69, Cl. 71-104.
Lemin, Denis Ronald: *See*—
Harrell, Patrick Harwood; and Lemin, Denis Ronald,3,469,930.
Leming, Thomas L., to Collins Radio Company. Switchover system to provide antenna protection and space diversity configuration. 3,482,165, 12-2-69, Cl. 325-56.
Lemke, Charles H., to Du Pont de Nemours, E. I., and Company. Process for preparing alloy diffusion coatings. 3,481,770, 12-2-69, Cl. 117-114.

Lemke, Donald C. Self-actuating brake. 3,422,694, 1-21-69, Cl. 74-411.5

Lemke, James H.: *See—*
Mays, Vance H.; and Lemke, James H.,3,468,180.

Lemke, James U., to Bell & Howell Company. Magnetic digital transducer. 3,449,744, 6-10-69, Cl. 340-347.

Lemke, John S.: *See—*
Bukkila, Charles J.; Eyberg, Donald T.; Lemke, John S.; and Olson, Raymond M.,3,469,560.

Lemke, Lawrence W. Cultivator tine with fluid dispenser. 3,439,636, 4-22-69, Cl. 111-7.

Lemkey, Franklin D., to United Aircraft Corporation. Anisotropic monotectic alloys and process for making the same. 3,434,827, 3-25-69, Cl. 75-134.

Lemkin, Jack Lewis: *See—*
Ryan, John W.; and Lemkin, Jack Lewis,3,425,155.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L.,3,445,955.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L.,3,448,540.

Lemma, Robert H., to Burroughs Corporation. Voltage regulator circuit having constant input impedance and means for protecting against load voltage ripple. 3,435,294, 3-25-69, Cl. 317-31.

Lemmerman, Donald R. Four-wheel drive vehicle with articulated frame. 3,437,163, 4-8-69, Cl. 180-51.

Lemmey, Edgar S.: *See—*
Dine, Lester A.; and Lemmey, Edgar S.,3,472,588.

Lemmon, Richard C., to Radio Corporation of America. Step recovery damper diode for retrace driven horizontal deflection circuits. 3,428,857, 2-18-69, Cl. 315-27.

Lemmrich, Jurgen, to U.S. Philips Corporation, mesne. Circuit arrangement for controlling the speed of a commutator or induction motor. 3,443,184, 5-6-69, Cl. 318-227.

Lemoine, Jean E.; and Catinat, Marcel F. Apparatus for transversely stretching moving film. 3,445,886, 5-27-69, Cl. 18-1.

Lemoine, Jules. Electric agitator. 3,441,036, 4-29-69, Cl. 134-140.

Lemon, Frank H. Combined spinning and casting reel. 3,425,643, 2-4-69, Cl. 242-84.2

Lemon, George Edward. Screwdown control for metal rolling mills. 3,433,037, 3-18-69, Cl. 72-35.

Lemon, George E. Speed control of strip rolling mills. 3,462,664, 8-19-69, Cl. 318-67.

Lemon, Jason R.: *See—*
Tse, Francis S.; and Comstock, Theodore R., 3,473,435.

Lemon, Lucien W., to Pacific Car and Foundry Company. Railroad car plug door retainer structure. 3,474,571, 10-28-69, Cl. 49-218.

Lemon, Merle B., to Chicago Musical Instrument Company. Mute for musical instruments. 3,440,917, 4-29-69, Cl. 84-267.

Lemon, Ralph B.: *See—*
Pitt, William A.; and Lemon, Ralph B.,3,454,466.

Lemon, Stanley G.; Eiseman, William F.; and Donoho, Charles M., to Chesapeake Instrument Corporation. Velocity sensing apparatus. 3,431,778, 3-11-69, Cl. 73-181.

Lemon, Stephen C.: *See—*
Moore, Glenn E.; and Lemon, Stephen C.,3,439,942.

Lemonick, Bernard. Football training apparatus. 3,466,930, 9-16-69, Cl. 73-380.

Lemons, David Forrest: *See—*
Kress, James Henry; and Lemons, David Forrest,3,479,908.

Lemons, Donald M. Cable wire threading tool. 3,483,773, 12-16-69, Cl. 81-3.

Lemons, Thomas M.: *See—*
Levin, Robert E.; and Lemons, Thomas M.,3,428,800.

Lemoyne, Roger. Collapsible writing shelf. 3,451,360, 6-24-69, Cl. 108-34.

Lemp, Jurgen: *See—*
Ortlinghaus, Otto; Ortlinghaus, Adolf; and Lemp, Jurgen,3,469,664.

Lempco Industrial, Inc.: *See—*
Hammon, Edwin J., 3,452,633.

Lemper, Herbert, to Mesta Machine Company. Oscillation drive mechanism. 3,442,145, 5-6-69, Cl. 74-54.

Lemper, Herbert, to Mesta Machine Company. Flexible dummy bar for continuous casting machines. 3,442,322, 5-6-69, Cl. 164-274.

Lemper, Herbert; and Snee, William H., Jr., to Mesta Machine Company. Force-multiplying mechanisms. 3,453,914, 7-8-69, Cl. 83-8.

Lempert, Irving E.; and Sillman, David, to Westinghouse Electric Corporation. Multi-track message recording apparatus. 3,427,408, 2-11-69, Cl. 179-100.2

Lempicki, Alexander: *See—*
Brecher, Charles; Lempicki, Alexander; and Samelson, Harold,3,454,901.

Lempke, James L., to Ford Motor Company. Lock key. 3,427,833, 2-18-69, Cl. 70-408.

Lenahan, James L., to Magnaflux Corporation. Angle beam transducer. 3,482,122, 12-2-69, Cl. 310-9.1

Lenahan, James L.; and Colbert, John R., to Magnaflux Corporation. Ultrasonic transducer with a fluorocarbon damper. 3,427,481, 2-11-69, Cl. 310-8.2

Lenane, Denis L.; and Lyben, Raymond G., to Ethyl Corporation. Exhaust treating device. 3,485,593, 12-23-69, Cl. 23-288.

Lenarcik, Henryk: *See—*
Kavalus, Leonard S.; and Lenarcik, Henryk,3,449,987.

Lenard, Katherine: *See—*
Taylor, Edward C.; and Lenard, Katherine,3,476,755.

Lenas, Leandros P.: *See—*
Small, Augustus B.; Jaruzelski, John J.; and Lenas, Leandros P.,3,474,066.

Lencioni, Cecil C., Jr.: *See—*
Siegleman, Abe; Lencioni, Cecil C., Jr.; and Rosmanith, Carl W.,3,483,410.

Lenco A.G.: *See—*
Loescher, Friedrich A., 3,486,757.

Lenco, Inc.: *See—*
Leonard, Paul J., 3,473,181.

Lender, Adam, to Lenkurt Electric Co., Inc. Modified duobinary data transmission. 3,457,510, 7-22-69, Cl. 325-38.

Lender, Adam, to Lenkurt Electric Co., Inc. Error detection for modified duobinary systems. 3,461,426, 8-12-69, Cl. 340-146.1

Lenders, Socrates: *See—*
Burg, Fred G.; and Lenders, Socrates,3,444,446.

Lengemann, Robert A.: *See—*
Carson, Don B.; and Lengemann, Robert A.,3,426,092.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth D.,3,461,061.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth Donald,3,461,063.
Stine, Laurence O.; Schoenfeld, Jack R.; and Lengemann, Robert A.,3,472,758.

Lengenfelder, Frank J.: *See—*
Frank, Alfred L.; and Lengenfelder, Frank J.,3,475,014.

Lengnick, Guenther Fritz: *See—*
Pande, Kailash Chandra; and Lengnick, Guenther Fritz,3,471,434.

Lengnick, Guenther Fritz, to Stauffer Chemical Company. Organopolysiloxanes. 3,441,537, 4-29-69, Cl. 260-46.5

Lengnick, Guenther Fritz; and Pepe, Anthony Enrico, to Stauffer Chemical Company. Room temperature curing organopolysiloxanes. 3,477,973, 11-11-69, Cl. 260-18.

Lengyel, Zoltan: *See—*
Gering, Tibor; Kloiber, Gyorgy; and Lengyel, Zoltan,3,457,439.

Lenhart, Donald D.: *See—*
Garland, William J.; Hassencahl, Lloyd J.; Lenhart, Donald D.; and Wolfe, George, Jr.,3,431,392.

Lenhart, Helga: *See—*
Braunisch, Herbert; Lenhart, Helga; and Seifried, Walter,3,434,916.

Lenhart, Ronald A. Bowling ball accelerator mechanism. 3,425,691, 2-4-69, Cl. 273-49.

Lenhart, Vergil C. Wall scrubbing and buffing machine. 3,473,180, 10-21-69, Cl. 15-50.

Lenick, Richard Vincent: *See—*
Wystrach, Vernon Paul; Lenick, Richard Vincent; and Murray, Michael Albert,3,464,869.

Le Nickel, Societe Anonyme: *See—*
Cuenot, Charles, 3,432,410.

Lenigan, Thomas E. United States of America, Army, mesne Radar tracking error indicator. 3,480,955, 11-25-69, Cl. 343-11.

Leningradsky Institute Tochnoy Mekhaniki i Optiki: *See—*
Tsukkerman, Solomon Tobiasovich, 3,452,207.

Leningradsky Nauchno-Issledoratelsky Institute Antibiotikov: *See—*
Kulbakh, Valter Osvaldovich; and Karpenko, Marija Pavlovna, 3,476,856.

Leningradsky nauchno-issledovateljsky institute antibiotikov: *See—*
Kuljbakh, Valjter Osvaljdovich; Sokolov, Leonid Borisovich; Sveshnikov, Jury Fedorovich; Kuznetsova, Olja Alexandrovna; Malinovskaja, Galina Nickolaevna; and Raigorodskaja, Valentina Jakovlevna, 3,439,090.
Kuljbakh, Valjter Osvaljdovich; Rabinovich, Nina Abramovna; and Raigorodskaja, Valentina Jakovlevna, 3,450,718.
Kuljbakh, Valjter Osvaljdovich; and Raigorodskaja, Valentina Jakovlevna, 3,467,680.

Lenk, Erich, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Sealing device for the connecting point between feeding member and tool in extrusion presses. 3,480,995, 12-2-69, Cl. 18-8.

Lenk, James W.; Burnett, Arthur H.; and May, Kenneth D., to Berkley Machine Company. Automation of envelope machine adjustments. 3,429,238, 2-25-69, Cl. 93-61.

Lenk, Peter: *See—*
Schiller, Siegfried; Forster, Harry; and Lenk, Peter,3,440,475.
Schiller, Siegfried; Lenk, Peter; and Forster, Harry,3,432,335.

Lenke, Hans-Dieter: *See—*
Vogelsang, Dietrich; Brock, Norbert; and Lenke, Hans-Dieter,3,472,836.

Lenkey, Andrew; and Graeser, James B., Jr., to Beckman Instruments, Inc. Rotor stabilizer. 3,430,852, 3-4-69, Cl. 233-23.

Lenkurt Electric Co., Inc.: *See—*
Lender, Adam, 3,457,510.
Lender, Adam, 3,461,426.

Lenn, Peter D.: *See—*
Gallagher, Lee R.; and Lenn, Peter D.,3,447,030.

Lennard, Dean J., to General Electric Company. Supersonic inlet. 3,430,640, 34-69, Cl. 137-15.1
Lennartz, Walter. Hanging folder. 3,424,167, 1-28-69, Cl. 129-16.7
Lennartz, Walter. Filed folder having a plurality of pockets. 3,460,159, 8-5-69, Cl. 40-104.05
Lennartz, Walter. Insert sheet for file folders having a paper fastening device thereon. 3,466,133, 9-9-69, Cl. 402-4.
Lenne, Curt Yngve: *See—*
Hammarskjold, Sven; and Lenne, Curt Yngve,3,467,747.
Lenngren, Eric Folke Odel: *See—*
Hagelin, Erik Gustav; and Lenngren, Eric Folke Odel,3,451,696.
Lennon, Donald Joseph John; and Schleifstein, Harvey G., to Carter's Ink Company, The. Electrophoretic printing medium. 3,471,387, 10-7-69, Cl. 204-180.
Lennon, Edmund J., to Stanley Works, The. Magazine seal blank. 3,457,600, 7-29-69, Cl. 24-23.
Lennon, Fred A.; Zahuranec, Emery J.; Dodge, Harry G.; and Szohatzky, Zoltan, to Crawford Fitting Company. Tool holding device. 3,475,948, 11-4-69, Cl. 72-462.
Lennon, Fred A.; Zahuranec, Emery J.; Szohatzky, Zoltan; and Beck, Edward, to Crawford Fitting Company. Fitting wrench. 3,447,405, 6-3-69, Cl. 81-119.
Lennon, William T., Jr.; and Reinagel, Frederick G., to Sierra Research Corporation. Clock frequency and phase correction. 3,487,407, 12-30-69, Cl. 343-7.5
Lennox Industries, Inc.: *See—*
Cawley, Richard E., 3,448,918.
Cawley, Richard E., 3,465,949.
Dirk, William R.; and Parker, Sidney A., 3,462,075.
Ellis, Charles B., 3,465,954.
McCready, Raymond G., 3,434,028.
Lenny, Charles M. Axial air gap electric motor system with permanent magnet disc rotor. 3,437,897, 4-8-69, Cl. 318-138.
Lenoble, Jean P.; Addy, John; and Piggin, Bruce P., to International Business Machines Corporation. Production of metallic coatings upon the surfaces of other materials. 3,442,683, 5-6-69, Cl. 117-47.
Le Noir, Fred White; and King, Clarence Anderson, to Allied Chemical Corporation. Process and apparatus for texturizing yarn. 3,438,101, 4-15-69, Cl. 28-1.
Le Noir, Fred W., to Allied Chemical Corporation. Commingled crimped yarn. 3,473,315, 10-21-69, Cl. 57-140.
Le Noir, James A.: *See—*
Metz, Bruce E.; Paul, James T., Jr.; and Le Noir, James A.,3,473,511.
Lenoir, Maurice Auguste Jacques; Lanzarone, Roland Michael; and Maigrot, Madeleine Georgette, to Ugine Kuhlmann. Metalliferous azomethine pigments. 3,440,254, 4-22-69, Cl. 260-429.
Lenoir, Maurice Auguste Jacques; and Ligot, Jean Denis Bernard, to Ugine Kuhlmann, mesne. Disazomethine pigments. 3,457,301, 7-22-69, Cl. 260-519.
Lenoir, Walter F., to Moncrief-Lenoir Manufacturing Company. Sandwich-type building panel. 3,466,831, 9-16-69, Cl. 52-521.
Lenosky, John J.: *See—*
Smith, Robert H.; and Lenosky, John J.,3,453,699.
Lens, Georges Xavier; van Brabant, Jozef Maria; and Hendrickx , Franciscus Joannes Julia, to International Standard Electric Corporation. Control means for a multiturn endless conveying apparatus. 3,429,460, 2-25-69, Cl. 214-11.
Lensack, Gabriel P., to Atlas Chemical Industries, Inc. Liquid shortenings. 3,437,492, 4-8-69, Cl. 99-118.
Lense, Robert F., to Riegel Paper Corporation. Mechanism for positioning carton flaps. 3,442,062, 5-6-69, Cl. 53-374.
Lensky, Albert, to Swingline Inc. Apparatus for molding and assembling a container. 3,477,095, 11-11-69, Cl. 18-2.
Lensner, Herbert W.: *See—*
Altfather, Conrad T.; and Lensner, Herbert W.,3,427,473.
Hagberg, John E.; and Lensner, Herbert W.,3,470,418.
Lensol Promotional Sales Inc.: *See—*
Haimovitz, Leonard J.; and Adams, Roy C., 3,439,725.
Lent, Ernest H. Vegetable picking machine. 3,447,612, 6-3-69, Cl. 171-58.
Lent, Worthington C., to Lear Siegler, Inc. Disabling device for the alternating-current path of a two-wire transmission system. 3,483,336, 12-9-69, Cl. 179-170.4
Lents, Charles M., 1/2% to Bauer, Earl J. Frozen carbonated beverage dispensing apparatus. 3,482,414, 12-9-69, Cl. 62-137.
Lentz, Ervin C., to Walker Manufacturing Company. Exhaust system. 3,479,145, 11-18-69, Cl. 23-288.
Lentz, John Theodore, to AMP Incorporated. Matched switch matrix. 3,470,499, 9-30-69, Cl. 333-7.
Lentzen, Paul; and Wolters, Jakob, to Wirth, Alfred, & Co. KG. Boring device. 3,460,858, 8-12-69, Cl. 285-98.
Lenz, Aenne: *See—*
Lenz, Robert, deceased; and Lenz, Aenne; sole heiress and administratrix,3,448,461.
Lenz, Arnold; Hass, Karl; and Epler, Hans, to Dynamit Nobel Aktiengesellschaft. Metal hydride compositions and process therefor. 3,460,906, 8-12-69, Cl. 23-204.
Lenz, Arnold; and Rogler, Walter, to Dynamit Nobel Aktiengesellschaft. Prevention of metal hydride decomposition. 3,468,621, 9-23-69, Cl. 21-60.5
Lenz, Arnold: *See—*
Hauck, Gerhard F.; Hass, Karl W.; and Lenz, Arnold,3,458,552.
Langenhoff, Ferdinand; and Lenz, Arnold,3,452,012.
Lenz, Charles E., to North American Rockwell Corporation. Wave-edge comparator. 3,474,414, 10-21-69, Cl. 340-146.1
Lenz, Conrad. Control mechanism. 3,424,878, 1-28-69, Cl. 200-46.
Lenz, Conrad. Apparatus for making beer wort. 3,450,023, 6-17-69, Cl. 99-278.
Lenz, Conrad. Gristmill with automatic shut-off. 3,458,141, 7-29-69, Cl. 241-36.
Lenz, Conrad. Grist mill with wiper arrangement. 3,484,049, 12-16-69, Cl. 241-60.
Lenz, Gunter: *See—*
Sennewald, Kurt; Rehberg, Heinrich; and Lenz, Gunter,3,442,937.
Lenz, Hans-Joachim; and Benkel, Diethard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Printing blocks of solid plastic material. 3,474,728, 10-28-69, Cl. 101-395.
Lenz, Hans-Joachim; and Ott, Willi, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing blocks of plastics material. 3,483,048, 12-9-69, Cl. 156-2.
Lenz, Hans: *See—*
Wieden, Horst; Lenz, Hans; Moosmueller, Fritz; and Koehler, Armin,3,481,905.
Wieden, Horst; Romatowski, Johannes; Moosmueller, Fritz; and Lenz, Hans,3,485,800.
Lenz, James E., to General Electric Company. Damping device for moving0-coil transformers. 3,467,928, 9-16-69, Cl. 336-40.
Lenz, Johann: *See—*
Fischer, Max; Scheuermann, Hans; Klaassen, Hermann; and Lenz, Johann,3,482,353.
Lenz, John O., to Honeywell Inc. Tube forming apparatus. 3,433,040, 3-18-69, Cl. 72-85.
Lenz, John O. Tracer apparatus. 3,456,556, 7-22-69, Cl. 90-13.2
Lenz, Jurgen: *See—*
Meyer, Ernst; and Lenz, Jurgen,3,475,111.
Lenz, Jurgen; and Meyer, Ernst, to Vereinigte Glanzstoff-Fabriken AG. Process for improving the acid dye receptivity of polylactams and polylactam products so produced. 3,437,641, 4-8-69, Cl. 260-78.
Lenz, Robert, deceased; and Lenz, Aenne; sole heiress and administratrix. Collar particularly a top collar. 3,448,461, 6-10-69, Cl. 2-131.
Lenz, Robert G.: *See—*
De Hart, Arnold O.; Ferchland, Harold W.; and Lenz, Robert G.,3,475,826.
Lenzen, Leo W.; Olsen, Norman G.; and Wenda, Raymond N., to Allis-Chalmers Manufacturing Company. Means for interlocking transmission and parking brake controls. 3,480,120, 11-25-69, Cl. 192-4.
Lenzi, William: *See—*
Packard, Norman M.; and Lenzi, William,3,476,099.
Packard, Norman M.; Squinto, Leonard O.; and Lenzi, William,3,464,707.
Lenzmann, Heinrich: *See—*
Lederer, Michael; Lenzmann, Heinrich; and Wagener, Siegfried,3,429,910.
Lenzo, Pascal V.; and Spencer, Edward G., to Bell Telephone Laboratories, Incorporated. Optical channel separation by deflection. 3,433,958, 3-18-69, Cl. 250-199.
Leo, Albert J.; and Bielskis, Edward C., to National Pectin Products Company. Apparatus for indicating deviation in output of a cyclically operable pump. 3,430,812, 3-4-69, Cl. 222-14.
Leo, Angelo, to Smigelski, Charlotte J., & Smigelski, Felix P. Adjustable clothes dryers. 3,421,633, 1-14-69, Cl. 211-119.1
Leonard, Charles A.: *See—*
Dershin, Harvey; and Leonard, Charles A.,3,452,553.
Leonard, Charles E., to General Electric Company. Power amplifier control system. 3,457,485, 7-22-69, Cl. 318-257.
Leonard Charles F.: *See—*
Young, Thomas J.; Leonard Charles F.; and Leonard, Claude H.,3,428,133.
Leonard, Claude H.: *See—*
Young, Thomas J.; Leonard Charles F.; and Leonard, Claude H.,3,428,133.
Leonard, Daniel C.; and Fell, James A., to Dorr-Oliver Incorporated. Apparatus for opening the gate of a mine skip. 3,484,008, 12-16-69, Cl. 214-740.
Leonard, Daniel C.; and Lamb, Fredrick M., to Dorr-Oliver Incorporated. Large diameter cast sheaves. 3,427,892, 2-18-69, Cl. 74-230.13
Leonard, Daniel R.: *See—*
Hedger, Earl G.; Huckell, Gary R.; and Leonard, Daniel R.,3,437,750.
Leonard, Donald A., to United States of America, Air Force. Means for producing long gas discharges. 3,460,053, 8-5-69, Cl. 331-94.5

Leonard, Edward Charles: *See—*
Sandler, Stanley Robert; and Leonard, Edward Charles,3,422,072.
Leonard, Edward Oliver: *See—*
Chiddix, Max Eugene; and Leonard, Edward Oliver,3,432,494.
Chiddix, Max Eugene; and Leonard, Edward Oliver,3,432,495.
Leonard, Edwin C. Frame doghouse construction. 3,460,516, 8-12-69, Cl. 119-19.
Leonard, Ethel K.: *See—*
Chance, Leon H.; Leonard, Ethel K.; and Drake, George L., Jr.,3,484,184.
Leonard, Eugene: *See—*
Pinto, Anthony; Cornish, Arthur H.; Leonard, Eugene; Wolf, Edgar; and Lau, Edward H.,3,441,713.
Leonard, Frederick. Dihydrodibenzocycloheptene carboxylic acid amides useful as anticonvulsants. 3,459,859, 8-5-69, Cl. 424-246.
Leonard Herman A.: *See—*
Huser, Robert R.; Huser, Joseph L.; and Leonard Herman A.,3,448,657.
Leonard, John E., to Beckman Instruments, Inc. Apparatus and method of sampling a dialyzable component of blood. 3,459,176, 8-5-69, Cl. 128-2.
Leonard, John H.: *See—*
Bath, Cyril J.; and Leonard, John H.,3,426,570.
Leonard, Louis H., Jr., to Carrier Corporation. Heating and cooling system. 3,433,296, 3-18-69, Cl. 165-39.
Leonard, Lynn B., to Beckman Instruments, Inc. Leak structure and method for producing same. 3,423,304, 1-21-69, Cl. 204-195.
Leonard, Lynn B.; and Petersen, Arne J., to Beckman Instruments, Inc. Electrode and method of making same. 3,444,068, 5-13-69, Cl. 204-195.
Leonard, Merrill G., to Westinghouse Electric Corporation. Electrical transformer suitable for pole or vault mounting. 3,462,645, 8-19-69, Cl. 317-15.
Leonard, Merrill G., to Westinghouse Electric Corporation. Cast bushing for connecting a high voltage and high current to electrical apparatus located in a metal casing or tank. 3,469,223, 9-23-69, Cl. 337-202.
Leonard, Merrill G., to Westinghouse Electric Corporation. Protective link for a transformer or such like device enclosed within a tank. 3,474,374, 10-21-69, Cl. 337-207.
Leonard, Merrill G.; and Manes, Robert J., to Westinghouse Electric Corporation. Spring contact-finger construction. 3,461,259, 8-12-69, Cl. 200-170.
Leonard, Merrill G.; and Wright, Leonard L., to Westinghouse Electric Corporation. Fuse and disconnect device for mounting inside a high voltage bushing. 3,421,130, 1-7-69, Cl. 337-157.
Leonard, Paul Derrick: *See—*
Lobelle, Marcel Jules Odilon, deceased; Leonard, Paul Derrick; and Hypher, Noel Charles; executors,3,473,166.
Leonard, Paul J., to Lenco, Inc. Dual mounted cup steel brushes for metal cleaning. 3,473,181, 10-21-69, Cl. 15-77.
Leonard, Paul L., to General Motors Corporation. Waveform generator. 3,430,073, 2-25-69, Cl. 307-260.
Leonard, Ray. Game. 3,473,807, 10-21-69, Cl. 273-157.
Leonard Refineries, Inc.: *See—*
Mernitz, Paul R., 3,439,528.
Leonard, Ronald James, to Allis-Chalmers Manufacturing Company. Electrode backing plate for fuel cells. 3,445,294, 5-20-69, Cl. 136-86.
Leonard, Ronald Keith: *See—*
Reece, Wendell Dale; and Leonard, Ronald Keith,3,484,802.
Leonard Valve Company: *See—*
Bowman, Lawrence Everton, 3,456,670.
Leonard, William L.; and Leadbeater, Howard W., to Universal American Corporation, mesne. Pallet load-lift truck. 3,441,287, 4-29-69, Cl. 280-43.12
Leonard, Wolfgang B.: *See—*
Hain, Gottfried M.; and Leonard, Wolfgang B.,3,439,472.
Leonardi, Joseph R.: *See—*
Heidecker, Robert F.; and Leonardi, Joseph R.,3,487,320.
Leonco, Inc.: *See—*
Loe, Winston C., 3,473,557.
Leone, Anthony J. Oil pressure guardian. 3,431,555, 3-4-69, Cl. 340-60.
Leone, James E.; and Wettstein, Ernest C., to Raytheon Company. Mirror supporting structure for lasers. 3,428,915, 2-18-69, Cl. 331-94.5
Leone, Joseph Thomas; and Mc Kague, James Francis, to Eastman Kodak Company. Colloid transfer activator containing a formaldehyde generating compound. 3,464,821, 9-2-69, Cl. 96-28.
Leone, William C., to Ex-Cell-O Corporation. Magnetic pin information storage system. 3,460,115, 8-5-69, Cl. 340-174.
Leonhardt, Gunter: *See—*
Brockhaus, Gehard; Leonhardt, Gunter; and Weber, Heinz,3,461,257.
Leonhardt, Horst M., to Kamborian, Jacob S. Heel seat lasting. 3,436,779, 4-8-69, Cl. 12-10.5
Leonhardt, Horst R.: *See—*
Reisman, Arnold; and Leonhardt, Horst R.,3,480,491.
Leonhardt, Robert F., to Atwood Vacuum Machine Company. Seat adjuster latch construction. 3,450,425, 6-17-69, Cl. 287-58.
Leonhardt, William S.: *See—*
Kamienski, Conrad W.; Bach, Ricardo O.; and Leonhardt, William S.,3,452,111.
Leonhart, Charles J., to Nuarc Company, The. Photographic machine. 3,424,530, 1-28-69, Cl. 355-61.
Leonidov, Nikolai Konstantinovich: *See—*
Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich,3,459,311.
Leonor, Manuel F., to Robertson, Emilia. Carbonization of bagasse. 3,436,312, 4-1-69, Cl. 201-25.
Leonor, Manuel F. Technique for converting bagasse and other moist plant substances into charcoal. 3,436,314, 4-1-69, Cl. 202-117.
Leonowicz, Jan, to Avery, W. & T., Limited. Dynamic weighing. 3,446,299, 5-27-69, Cl. 177-25.
Leontas, Spiros, to Diebold Incorporated. Closure for pneumatic system carrier. 3,482,801, 12-9-69, Cl. 243-35.
Leopard, James G., to Universal Oil Products Company. Recovery of platinum from deactivated catalysts. 3,469,971, 9-30-69, Cl. 75-121.
Leopfe Brothers Ltd.: *See—*
Stutz, Hansruedi S.; Loepfe, Erich; and Hranitzky, Wilhelm M., 3,485,964.
Leopold, F. B., Company, Inc.: *See—*
Gerlitz, Frank E., Jr.; and Levis, Calvin E., 3,427,878.
Meyer, Leonard S., 3,443,436.
Young, Frederick L., Jr., 3,465,889.
Leopold, Reuven, to Litton Systems, Inc. Marine vessel. 3,447,502, 6-3-69, Cl. 114-61.
Leopold, Wilbur R., Jr.; Floren, Carl E.; and Ammann, Paul R., to Mueller Co. Compressive joint coupling for flareless tubes. 3,472,532, 10-14-69, Cl. 285-54.
Leopold, Wilbur R., Jr.; Smith, John J.; and Floren, Carl E., to Mueller Co. Method and connection for establishing service between a plastic main and plastic service pipe with a plastic service T. 3,460,553, 8-12-69, Cl. 137-15.
Leopold, Wilbur R., Jr.: *See—*
Mueller, Frank H.; Leopold, Wilbur R., Jr.; and Smith, John J.,3,437,106.
Le Page, Gerard, to Scovill Manufacturing Company. Key holder. 3,442,103, 5-6-69, Cl. 70-456.
Le Page, Jean Francois: *See—*
Cosyns, Jean; Derrien, Michel; and Le Page, Jean Francois,3,472,763.
Le Page, Jean-Francois: *See—*
Cosyns, Jean; and Le Page, Jean-Francois,3,471,400.
Lepak, Theodore John, to Miller Company, The. Lighting fixture. 3,435,204, 3-25-69, Cl. 240-51.11
Le Parquier, Guy, to CSF-Compagnie Generale de Telegraphie Sans Fil. Electronic scanning antennae. 3,482,245, 12-2-69, Cl. 343-100.
Le Parquier, Guy; and Pierrot, Robert, to CSF-Compagnie Generale de Telegraphie Sans Fil. Plural reflector antenna with polarization rotation to minimize feed shadow. 3,430,246, 2-25-69, Cl. 343-756.
Le Pechon, Guy, to Rhone-Poulenc S.A. Apparatus for the treatment of suspensions. 3,468,423, 9-23-69, Cl. 210-360.
Lepeintre, Marcel: *See—*
Mahieu, Claude; Lepeintre, Marcel; and Monjou, Jacques,3,466,238.
Lepelletier, Pierre Andre Georges, to Societe Anonyme Francaise du Ferodo. Braking systems for automobile vehicles. 3,434,572, 3-25-69, Cl. 188-152.
Lepelletier, Pierre Andre Georges, to Societe Anonyme Francaise du Ferodo. Hydraulic brake system and control means therefor. 3,437,179, 4-8-69, Cl. 188-152.
Lepelletier, Pierre Andre Georges, to Societe Anonyme Francaise du Ferodo. Double circuit hydraulic brake. 3,459,281, 8-5-69, Cl. 188-78.
Lepelletier, Pierre Andre Georges, to Societe Anonyme Francaise du Ferodo. Transmission especially for automobile vehicle. 3,474,690, 10-28-69, Cl. 74-732.
Lepelletier, Pierre Andre Georges, to Societe Anonyme Francaise Du Ferodo. Brake with double face clamping and braking system comprising such brakes especially for automobile vehicles. 3,481,433, 12-2-69, Cl. 188-79.5
Lepetit S.p.A.: *See—*
Borbonese, Mario; De Ros, Angelo; and Pifferi, Giorgio, 3,461,040.
Lancini, Giancarlo; and Lazzari, Ettore, 3,420,842.
Lancini, Giancarlo; and Lazzari, Ettore, 3,450,709.
Murthy, Yelahanka Krishnamurthy Srinivas; and Testa, Emilio, 3,423,508.
Nathansohn, Giangiacomo; and Winters, Giorgio, 3,436,389.

Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio, 3,459,740.
Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio, 3,461,119.
Pifferi, Giorgio; and Testa, Emilio, 3,476,752.
Testa, Emilio; Bellasio, Elvio; and Maffii, Giulio, 3,449,359.
Testa, Emilio; and Fontanella, Luigi, 3,452,000.
Thiemann, Joseph Ernst; Lancini, Giancarlo; and Nathansohn, Giangiacomo, 3,452,005.

Lepiane, Donald C., to Western Electric Company, Incorporated. Method for fabricating double-diffused semi- conductive devices. 3,445,302, 5-20-69, Cl. 148-186.

Lepianka, Stanley J., to Automatic Electric Laboratories, Inc. Coils having edges of insulating sheets in grooves of bobbin flanges. 3,487,347, 12-30-69, Cl. 335-299.

Le Poec, Claude: *See—*
Comar, Dominique; and Le Poec, Claude,3,479,508.

Lepoivre, Constan: *See—*
Buu-Hoi, Nguyen P.; Lambelin, Georges; Lepoivre, Constan; Gillet, Claude; and Thiriaux, Jacques,3,479,396.

Leposky, John E. Snow plow with tiltable blade structure. 3,456,369, 7-22-69, Cl. 37-42.

Lepp, Jacob H.; and Bottrill, Neil J., to International Harvester Company. Spreader drive mechanism. 3,448,930, 6-10-69, Cl. 239-685.

Lepselter, Martin P.: *See—*
Byrnes, Peter A., Jr.; and Lepselter, Martin P.,3,479,269.

Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Semiconductive device including beam leads. 3,426,252, 2-4-69, Cl. 317-234.

Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Method of fabricating semiconductor contacts. 3,442,701, 5-6-69, Cl. 117-212.

Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Method for making closely spaced conductive layers. 3,461,524, 8-19-69, Cl. 29-25.42

Lerch, Clark Mnroe; and Schwender, Leonard Dillon, to Sylvania Electric Products, Inc. Method of making a cathode sleeve structure. 3,452,426, 7-1-69, Cl. 29-477.

Lerch, David W., to Marine Construction & Design Co. Fish pump system with combined articulated support boom and conduit. 3,421,245, 1-14-69, Cl. 43-6.5

Lerch, Peter A.: *See—*
Fulgenzi, Crescenzo F.; Law, James B.; and Lerch, Peter A.,3,467,171.

Lerich, Lester, to Wej-It Expansion Products, Inc. Wedge expansion device. 3,427,919, 2-18-69, Cl. 85-72.

Lerich, Lester. Wedge type expansion bolt. 3,439,576, 4-22-69, Cl. 85-79.

Lerman, Frank; and Bartsch, Raymond C., to National Distillers and Chemical Corporation. Colored polymer powders. 3,449,291, 6-10-69, Cl. 260-41.

Lerman, Frank; and Bartsch, Raymond C., to National Distillers and Chemical Corporation. Method of making particulate polymer foams. 3,472,801, 10-14-69, Cl. 260-2.5

Lerman, Harold; and Goldstein, Murray S., to Singer-General Precision Systems Inc. Inertial navigator using analog integrators with digital logic. ,487,469, 11-25-69, Cl. 235-150.25

Lerman, Harold; and Goldstein, Murray S., to Singer-General Precision, Inc. Dual speed reset integrator. 3,463,912, 8-26-69, Cl. 235-183.

Lerman, Harold; and Goldstein, Murray S., to Singer-General Precision Systems Inc. Inertial navigator using analog integrators with digital logic. 3,480,766, 11-25-69, Cl. 235-150.25

Lermann, Peter: *See—*
Singer, Franz; Fahlenberg, Paul K. G.; and Lermann, Peter,3,448,673.

Lerner, Bernard, to Automated Packaging Corporation. Mechanism for automatically feeding, loading, and sealing bags, 3,477,196, 11-11-69, Cl. 53-44.

Lerner, Hershey, to Automated Packaging Corporation. Container delivery apparatus. 3,455,088, 7-15-69, Cl. 53-385.

Lerner, Irving: *See—*
Schrader, Malcolm E.; and Lerner, Irving,3,420,726.

Lerner, Julius O., 50% to Herman, David. Apparatus for detecting object movement. 3,438,020, 4-8-69, Cl. 340-258.

Lerner, Julius, to Sun Oil Company. Measuring apparatus for liquid mixtures. 3,464,258, 9-2-69, Cl. 73-61.1

Lerner, Julius, to Sun Oil Company. Probe assembly for measuring liquid level. 3,477,290, 11-11-69, Cl. 73-292.

Lerner, Leonard Joseph, to Squibb, E. R., & Sons, Inc. Anti-inflammatory compositions containing a corticoidal steroid and a testotolactone. 3,449,494, 6-10-69, Cl. 424-240.

Lerner, Leonard J.: *See—*
Pan, Samuel C.; and Lerner, Leonard J.,3,451,995.

Lerner, Nathan B., to Braun, W., Company. Tamperproof cap or closure for a container. 3,474,930, 10-28-69, Cl. 220-27.

Leroi, Eugene; Beaufour, Albert; and Beaufour, Gerald, to Societe d'Etudes de Produits Chimiques. N-dodecyl sulfate of 5-methyl-8-hydroxy quinoline. 3,462,437, 8-19-69, Cl. 260-286.

Le Roux, Max, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for converting a stack of packets into a row of packets. 3,481,508, 12-2-69, Cl. 221-280.

Le Roy, David H.: *See—*
Gramera, Robert E.; and Le Roy, David H.,3,464,974.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Le Roy, David H.,3,453,259.

Le Roy, Gene. Sight glass for reaction vessels. 3,438,539, 4-15-69, Cl. 220-46.

LeRoy, Gene. Sight glass for reaction vessels. 3,438,540, 4-15-69, Cl. 220-46.

Le Roy, Gene, to Union Carbide Corporation. Apparatus for extrusion of thermoplastics. 3,486,192, 12-30-69, Cl. 18-12.

Leroy, Jean Marie Louis: *See—*
Jirou, Marcel; and Leroy, Jean Marie Louis,3,479,332.
Consoli, Terenzio; Dupas, Lucien; and Leroy, Jean,3,425,902.

Le Roy, Pierre L., to New Research & Development Laboratories, Inc. Hemostatic clip, applicator. 3,446,212, 5-27-69, Cl. 128-325.

Lerwill, William Edward; and Anstey, Nigel Allister, to Seismograph Service Corporation. Correlation of variables not previously known. 3,459,928, 8-5-69, Cl. 235-181.

Lerwill, William Edward; and Anstey, Nigel Allister, to Seismograph Service Corporation. Methods of and apparatus for the correlation of variables. 3,459,929, 8-5-69, Cl. 235-181.

Lerwill, William Edward; and Anstey, Nigel Allister, to Seismograph Service Corporation. Methods of and apparatus for the correlation of two variables. 3,459,931, 8-5-69, Cl. 235-181.

Lerwill, William Edward; Caroussos, Panayotis; and Anstey, Nigel Allister, to Centre National de la Recherche Scientifique Seismograph Service Corporation. Method of using an arithmetic calculator and Methods of and apparatus for the correlation calculating machine for utilizing said method of variables. 3,460,095, 8-5-69, Cl. 235-181.

Lerwill, William E.; and Anstey, Nigel Allister, to Seismograph Service Corporation. Methods and apparatus for the correlation of two variables. 3,459,930, 8-5-69, Cl. 235-181.

Les Ateliers de Constructions Mecaniques C. & A. Holweg S.A.R.L.: *See—*
Class, Jean, 3,464,325.

Les Ateliers de Constructions Mercaniques C. & A. Holweg, S.A.R.L.: *See—*
Class, Jean, 3,439,591.

Les Fabriques d'Assortiments Reunies:*See—*
Tuetey, Paul, 3,469,392.
Tuetey, Paul, 3,481,140.

Les Forges de Zubrugge S.A.: *See—*
Schroth, Fridolin, 3,434,417.

Les Industries de Fibre de Verre de Thetford Inc.: *See—*
Roy, Paul E., 3,451,729.

Les Laboratoires Dausse: *See—*
Delaby, Pierre-Andre Raymond, 3,465,005.
Giudicelli, Don Pierre Rene Lucien; and Najer, Henry, 3,438,988.
Jeantils, Claude; Grosclaude, Etienne; Garlot, Christian; and Petruzzi, Nicolino, 3,459,761.

Les Laboratoires Francais de Chimiotherapie: *See—*
Grosjean, Marc, 3,471,240.

Les Usines de Melle (Societe Anonyme): *See—*
Biarnais, Paul; Alheritiere, Louis; Gobron, Georges; Mercier, Jules; Meunier, Gaston; and Lemaistre, Rene, 3,483,151.
Bourguignon, Pierre; and Lemaistre, Rene, 3,451,984.

Le Sage, Robert H., to USM Corporation. Drive anchor fastening devices. 3,482,482, 12-9-69, Cl. 85-83.

Lescarboura, Jean B., to La Telemecanique Electrique. Electrical connector. 3,464,055, 8-26-69, Cl. 339-204.

Leschinger, Franz, to Nestler, Albert, A.G. Carriage-type drawing apparatus. 3,441,322, 4-29-69, Cl. 308-3.8

Lescinsky, Frank W.: *See—*
Becker, Floyd K.; and Lescinsky, Frank W.,3,462,687.

Lescoa, Inc.: *See—*
Middleton, Forest L., 3,437,391.

Lescroel, Yves: *See—*
Pierrot, Andre; and Lescroel, Yves,3,424,685.

Lescure, Eric. Rim for cooking vessel. 3,446,392, 5-27-69, Cl. 220-63.

Lescure, Henri. Frying appliance. 3,463,077, 8-26-69, Cl. 99-403.

Lescure, Henri. Electric grill for foods. 3,478,194, 11-11-69, Cl. 219-402.

Lese, Henri K.; McCracken, John H.; and Schulz, Johann G. D., to Gulf Research & Development Company. Process for purifying terephthalic acid. 3,448,146, 6-3-69, Cl. 260-525.

Lese, Henri K.; Schulz, Johann G. D.; and Whitaker, Arthur C., to Gulf Research & Development Company. Oxidation of 1,1-diarylalkanes. 3,479,400, 11-18-69, Cl. 260-517.

Lesher, George Y., to Sterling Drug Inc. 1,7-Naphthyridine-3-carboxylic acid derivatives and their preparation. 3,429,887, 2-25-69, Cl. 260-294.9

Lesher, George Y., to Sterling Drug Inc. 1-Alkyl-1,4-dihydro-4-oxo-3 quinolinecarboxylic acids and esters. 3,472,859, 10-14-69, Cl. 260-287.

Lesher, Howard D.; Friedman, Robert; and Foreman, Joseph O., to North American Rockwell Corporation. Adaptive control for a machine tool. 3,446,099, 5-27-69, Cl. 77-32.4
Lesher, John C., to Penn-Western Electric. Emergency lighting system with two rate battery charger. 3,480,791, 11-25-69, Cl. 307-66.
Lesher, Kenneth W.: *See—*
Bouwkamp, Gerald R.; and Lesher, Kenneth W.,3,437,082.
Lesher, Kenneth W., to Standard Screw Company. Tappet metering disk. 3,439,660, 4-22-69, Cl. 123-90.
Leshin, Joseph, to Calumet Manufacturing Co., Inc. Covered box with hinge structure. 3,451,096, 6-24-69, Cl. 16-171.
Leshinsky, Leonard J., to General Motors Corporation. Connector. 3,430,993, 3-4-69, Cl. 287-53.
Lesinski, Theodore S.: *See—*
Collura, Peter C.; Desmond, John D.; Venditti, Arthur P.; and Lesinski, Theodore S.,3,438,563.
Desmond, John D.; Lesinski, Theodore S.; and Martin, James A.,3,424,367.
Lesk, Israel A., to Motorola, Inc. Method for making thin semiconductor dice. 3,445,925, 5-27-69, Cl. 29-577.
Lesk, Israel A., to Motorola, Inc. Localized control of carrier lifetimes in P-N junction devices and integrated circuits. 3,486,950, 12-30-69, Cl. 148-186.
Lesk, Israel Arnold, to General Electric Company. Semiconductor switching devices with a tunnel junction diode in series with the gate electrode. 3,434,023, 3-18-69, Cl. 317-235.
Lesk, Israel Arnold, to Motorola, Inc. Semiconductor device. 3,484,308, 12-16-69, Cl. 148-33.5
Leskiewicz, Henryk J.; Jacewicz, Jan; and Olszewski, Mariusz. Multiinput diaphragm logic element. 3,463,442, 8-26-69, Cl. 251-61.2
Lesley, Bascum G., to Deering Milliken Research Corporation. Thread covering machine. 3,482,390, 12-9-69, Cl. 57-163.
Leslie, Charles D., to Cap-Roc Inc. Article orienter and feeder. 3,485,333, 12-23-69, Cl. 193-43.
Leslie, Donald J., to Columbia Broadcasting System, Inc., mesne. Multivoice electronic organ. 3,420,941, 1-7-6, Cl. 84-1.24
Leslie, Donald J., to Columbia Broadcasting System, Inc., mesne. Complementary harmonic system for flute type organs. 3,432,608, 3-11-69, Cl. 84-1.21
Leslie, Donald J. Electronic organ utilizing proportional frequency changers for harmonic structure. 3,458,642, 7-29-69, Cl. 84-1.01
Leslie, Frank R., to Monsanto Company. Rain gutter suspension bracket. 3,426,987, 2-11-69, Cl. 248-48.2
Leslie, Frazier J. Pistol display and device therefor. 3,468,427, 9-23-69, Cl. 211-64.
Leslie, John B., Mrs.: *See—*
Porter, Charles D., 3,475,914.
Leslie, John H.; and Hubbard, Otis E., to Signode Corporation. Feed chute booster for flexible strap. 3,468,241, 9-23-69, Cl. 100-26.
Leslie, Myron W., to Cutler-Hammer, Inc. Method and apparatus fo use in promoting agglomeration. 3,463,614, 8-26-69, Cl. 23-230.
Leslie, William B.: *See—*
Abegg, Moroni Taylor; Hull, Daniel M.; and Leslie, William B.,3,453,558.
Lesney Products & Co. Limited: *See—*
Perryman, Ronald Thomas; and Rix, Frederick Noel, 3,462,878.
Rix, Frederick Noel; and Wetton, Cecil Kenneth, 3,482,351.
Lesney Products & Co.Limited: *See—*
Perryman, Ronald Thomas, 3,474,564.
Lesnov, Nickolai Alexandrovich: *See—*
Matveev, Nickolai Ivanovich; and Lesnov, Nickolai Alexandrovich,3,456,479.
Lespagnol, Jean P.; and Leurent, Ghislain, to Societe Industrielle de Transformation des Plastiques, Societe a responsabilite limitee. Metal frame for partitions and similar constructions. 3,451,183, 6-24-69, Cl. 52-656.
Less, Joseph W. Articles of neckwear. 3,474,503, 10-28-69, Cl. 24-56.
Lessells, Gerald A.; and Panagiotakis, Nicholas, to Mobil Oil Corporation. Attritor mill. 3,458,144, 7-29-69, Cl. 241-46.02
Lessig, William R., III: *See—*
Beckering, Jacobus J.; Duran, Raymond J.; and Lessig, William R., III,3,485,018.
Lessig, William R., III, to Black and Decker Manufacturing Company, The. Handle mount for lawn mower. 3,481,123, 12-2-69, Cl. 56-25.4
Lessig, William R., III; and Dickson, James E., to Black and Decker Manufacturing Company, The. Wheel height adjustment for lawn mower. 3,428,328, 2-18-69, Cl. 280-43.17
Lessler, Lew W., to DeJur-Amsco Corporation. Camera with remote control and battery recharger. 3,450,471, 6-17-69, Cl. 352-166.
Lessley, Byron L.: *See—*
Harnish, James R.; and Lessley, Byron L.,3,423,954.
Lessley, Robert L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,468,548.
Lessmann, Gerhard P.; and Jugan Michael R., to Westinghouse Electric Corporation. Portable polishing tool for in-place polishing of thrust runner bearings. 3,456,400, 7-22-69, Cl. 51-241.
Lesster, Laban E.: *See—*
Wigert, John W; and Lesster, Laban E.,3,449,629.
Lessy, Robert E. Auxiliary carburetion device. 3,443,597, 5-13-69, Cl. 138-42.
Lester, Claude E., to Kendall Company, The. Apparatus and method of sewing non-raveling seams in articles. 3,468,273, 9-23-69, Cl. 112-262.
Lester Controls Corporation: *See—*
Lester, Robert W., 3,453,599.
Lester, Dan A. Film cartridge for continuous showing of motion picture film. 3,479,112, 11-18-69, Cl. 352-78.
Lester, Fritz O.: *See—*
Lombardi, Crescenzo R.; and Lester, Fritz O.,3,442,433.
Lester, George R., to Universal Oil Products Company. Halogen hydride recovery in a hydrorefining process. 3,425,933, 2-4-69, Cl. 208-209.
Lester, George R., to Universal Oil Products Company. Photohalogenation of hydrocarbons. 3,428,539, 2-18-69, Cl. 204-163.
Lester, George R., to Universal Oil Products Company. Dealkylation of alkyl substituted aromatic hydrocarbons. 3,436,433, 4-1-69, Cl. 260-672.
Lester, George R., to Universal Oil Products Company. Dealkylation of alkyl aromatic hydrocarbons. 3,436,434, 4-1-69, Cl. 260-672.
Lester, George R., to Universal Oil Products Company. Selective hydrogenation of conjugated dienic compounds. 3,445,539, 5-20-69, Cl. 260-677.
Lester, George R., to Universal Oil Products Company. Dehydrogenation of paraffinic hydrocarbons. 3,457,154, 7-22-69, Cl. 204-162.
Lester, George R., to Universal Oil Products Company. Conversion and separation of isomeric xylenes. 3,458,589, 7-29-69, Cl. 260-674.
Lester, George R., to Universal Oil Products Company. Preparation of active hydrocarbon conversion catalysts. 3,471,586, 10-7-69, Cl. 260-683.
Lester, George R.; and Louvar, Cecelia J., to Universal Oil Products Company. Catalytic disproporionation of paraffinic hydrocarbons. 3,484,499, 12-16-69, Cl. 260-673.
Lester, Hazen Russell, Jr., to West Point-Pepperell, Inc. Apparatus for creasing textile material. 3,439,845, 4-22-69, Cl. 223-73.
Lester, John C. Pendant control for overhead cranes. 3,463,327, 8-26-69, Cl. 212-21.
Lester, Michael George; Stephenson, Oliver; and Petrow, Vladimir, to British Drug Houses Limited, The. Steroidal 6-cyclopropyl-4-en-3-ones and process for preparing same. 3,463,776, 8-26-69, Cl. 260-239.57
Lester, Ralph; and Williams, Tegwyn Pierce, to Lever Brothers Company. Process for preserving the organoleptic properties of young potatoes. 3,476,573, 11-4-69, Cl. 99-193.
Lester, Raymond H.: *See—*
Durkee, Jackson L.; Wall, William C.; and Lester, Raymond H.,3,457,717.
Humphries, Darral V.; and Lester, Raymond H.,3,430,293.
Lester, Robert William; and Trunk, Edmond G., to Mastercraft Electronics Corporation, mesne. Remote control over power lines by transmitting high frequency pulses in phase with positive and negative half cycles of the power line current. 3,458,657, 7-29-69, Cl. 179-2.5
Lester, Robert W., to Lester Controls Corporation. Plural frequency electronic control system with flip flop control of pulse transfer by a unijunction transistor to a pulse responsive switch. 3,453,599, 7-1-69, Cl. 340-171.
Lester, Russell H., Jr.: *See—*
Fisnar, Igor; and Lester, Russell H., Jr.,3,456,516.
Lester, Theodore V., to Motorola, Inc. Television circuit. 3,426,240, 2-4-69, Cl. 315-22.
Lester, William D.; and Barrett, Monroe C., to International Harvester Company. Cotton picker lift control. 3,464,190, 9-2-69, Cl. 56-11.
Lesti, Arnold, to Andromeda Inc. Signal responsive systems. 3,440,617, 4-22-69, Cl. 340-172.5
Lestienne, Andre F. P.: *See—*
Clement, Pierre L.; and Lestienne, Andre F. P.,3,464,560.
Lestina, Gregory J.; and Reckhow, Warren A., to Eastman Kodak Company. 6-Hydroxy chromans used as stabilizing agents in a color photographic element. 3,432,300, 3-11-69, Cl. 96-74.
Leston, Gerd, to Koppers Company, Inc. Process for separation of mono-butylated cresols. 3,452,104, 6-24-69, Cl. 260--607
Leston, Gerd, to Koppers Company, Inc. Dealkylation of ditertiary-butylcresols. 3,470,259, 9-30-69, Cl. 260-621.
Lesuer, William M., to Lubrizol Corporation, The. Mixed salts of phosphorus acids and hydrocarbon-substituted succinic acids. 3,428,561, 2-18-69, Cl. 252-32.5
Le Suer, William M., to Lubrizol Corporation, The. Reaction product of phosphosulfurized hydrocarbon and alkylene polycarboxylic acid or acid derivatives and lubricating oil containing the same. 3,433,744, 3-18-69, Cl. 252-46.7
Lesuer, William M., to Lubrizol Corporation, The. Combustion process and fuel compositions. 3,437,465, 4-8-69, Cl. 44-51.

Le Suer, William M., to Lubrizol Corporation, The. Fuel oil compositions having improved pour properties. 3,443,917, 5-13-69, Cl. 44-62.
Le Suer, William M., to Lubrizol Corporation, The. Process for producing nitrogen, sulfur or in addition oxygen containing compositions and products thereof. 3,484,429, 12-16-69, Cl. 260-132.
LeSuer, William M.; and Norman, George R., to Lubrizol Corporation, The. Basic metal carboxylate complex. 3,471,403, 10-7-69, Cl. 252-39.
Le Suer, William M.; and Higgins, William A., to Lubrizol Corporation, The. Lubricating composition containing a phosphorodithioate inhibitor. 3,442,804, 5-6-69, Cl. 252-32.7
Le Suer, William M.; and Norman, George R., to Lubrizol Corporation, The. Lubricant containing a high molecular weight acylated amine. 3,448,048, 6-3-69, Cl. 252-51.5
Le Suer, William M.; and Norman, George R., to Lubrizol Corporation, The. High molecular weight carboxylic compositions. 3,454,607, 7-8-69, Cl. 260-408.
Le Suer, William M.: *See—*
Norman, George R.; and Le Suer, William M.,3,444,170.
Lesueur, Marc Charles Joseph: *See—*
Ferrier, Pierre Alfred; and Lesueur, Marc Charles Joseph,3,425,044.
Lesueur, Robert: *See—*
Devin, Bernard; Lesueur, Robert; and Setton, Ralph,3,454,797.
Le Tarte, Frank M. Screen assembly. 3,455,367, 7-15-69, Cl. 160-371.
Letch, Harry George; and Powell, Leonard Cyril, to Labbatt, John, Limited. Alarm system for detecting fallen bottles on a conveyor. 3,433,966, 3-18-69, Cl. 250-223.
Letco, Inc.: *See—*
Tyler, Loren E., 3,450,431.
Leto, Joseph. Power indicating device. 3,440,870, 4-29-69, Cl. 73-115.
Letosky, Donald F.; and Platz, Elwood T., to I-T-E Imperial Corporation, mesne. Force dividing linkage for mechanically held electromagnetic contactor. 3,466,577, 9-9-69, Cl. 335-167.
Letraset Limited: *See—*
Lythgoe, Alan Lennox, 3,472,719.
Reed, Kenneth James; and Lythgoe, Alan Lennox, 3,432,376.
Letsinger, Robert M.; and Parmerlee, James K., to United States of America, Navy. Window de-icing controller circuit. 3,446,942, 5-27-69, Cl. 219-501.
Lettam, Inc.: *See—*
Cardel, Robert; and Gorsky, Egon, 3,456,383.
Gardel, Robert; and Gorsky, Egon, 3,421,258.
Gardel, Robert; and Gorsky, Egon, 3,455,052.
Gardel, Robert; and Gorsky, Egon, 3,468,056.
Gardel, Robert; and Gorsky, Egon, 3,477,169.
Gardel, Robert; and Gorsky, Egon, 3,487,346.
Lettenbauer, Gustav: *See—*
Popelak, Alfred; Lettenbauer, Gustav; Schaumann, Wolfgang; and Ribbentrop, Annemarie,3,464,995.
Letter, Eugene C., to Bausch & Lomb Incorporated. Method for forming strong metallic bonds to lead containing glass. 3,421,915, 1-14-69, Cl. 117-54.
Letter, Eugene C., to Bausch & Lomb Incorporated. Method of making infrared transmitting element. 3,431,326, 3-4-69, Cl. 264-1.
Letter, Eugene C., to Bausch & Lomb Incorporated. Optical element. 3,455,627, 7-15-69, Cl. 350-160.
Letter, Eugene C., to Bausch & Lomb Incorporated. Method of making reticle using a three layed photoelectric element. 3,455,683, 7-15-69, Cl. 96-1.
Letter, Eugene C., to Bausch & Lomb, Incorporated. Directional phototropic optical system. 3,476,461, 11-4-69, Cl. 350-160.
Letter, Eugene C.: *See—*
Hensler, Joseph R.; and Letter, Eugene C.,3,428,474.
Letter, Joseph D. Process for permanently ornamenting stone. 3,463,653, 8-26-69, Cl. 117-8.5
Lettieri, Gerard L. Readily removable portable retractable leash for small animals. 3,477,410, 11-11-69, Cl. 119-109.
Lettvin, Jerome. Method of and apparatus for center of gravity computation and the like. 3,443,077, 5-6-69, Cl. 235-184.
Letwin, Bruce K.; and Sroka, Kenneth J., to Ford Motor Company. Remote control linkage mechanism for a multiple ratio power transmission system. 3,465,612, 9-9-69, Cl. 74-473.
Letz, Emile Guillaume Joseph, to Letz-Aufzug Etablissement. Screw-driven elevator. 3,468,401, 9-23-69, Cl. 187-25.
Letz, Larry R. Adjustable telescoping plant support and watering device. 3,471,968, 10-14-69, Cl. 47-47.
Letz-Aufzug Etablissement: *See—*
Letz, Emile Guillaume Joseph, 3,468,401.
Leu, Gilbert, to Ex-Cell-O Corporation. Transistor direct current to alternating current conversion circuit. 3,441,832, 4-29-69, Cl. 321-45.
Leu, Kurt W., to Shell Oil Company. Stabilized polyolefin compositions. 3,438,935, 4-15-69, Cl. 260-45.85
Leucci, Gino, 30% to Mailman, Richard. Sterile device for extracting urine samples and the like and package for same. 3,460,529, 8-12-69, Cl. 128-2.
Leuchovius, Kurt Nils Sture: *See—*
Arnelo, Anders Ingvar; and Leuchovius, Kurt Nils Sture,3,466,536.
Leugering, Hans Joachim: *See—*
Cherdron, Harald; Leugering, Hans Joachim; Fischer, Edgar; and Asmus, Klaus-Dieter,3,467,625.
Leugering, Jans-Joachim: *See—*
Bohn, Lothar; Jastrow, Horst; Leugering, Jans-Joachim; and Vetter, Hans-Joachim,3,472,917.
Leum, Leonard N.: *See—*
Capaldi, Eugene C.; and Leum, Leonard N.,3,433,844.
Leumann, Ernst: *See—*
Porret, Daniel; Lohse, Friedrich; Leumann, Ernst; Nikles, Erwin; and Batzer, Hans,3,455,949.
Leumann, Ernst; and Porret, Daniel, to Ciba Limited. Process for the production of diallyl- phthalate. 3,465,030, 9-2-69, Cl. 260-475.
Leung, Lau Chi: *See—*
Leung, Lau Chun; and Leung, Lau Chi,3,477,222.
Leung, Lau Chun; and Leung, Lau Chi. Calendar clock device. 3,477,222, 11-11-69, Cl. 58-4.
Leunis, Robert R.: *See—*
Lagermasini, Joseph P.; Leunis, Robert R.; Roberts, Glenn H.; and Tiala, Lauri D.,3,446,408.
Leurent, Ghislain: *See—*
Lespagnol, Jean P.; and Leurent, Ghislain,3,451,183.
Leurent, Ghislain, to Societe Industrielle de Transformation des Plastiques, Societe Anonyme. Partitions and the like having no sound bridges. 3,434,258, 3-25-69, Cl. 52-397.
Leurent, Ghislain, to Societe Industrielle de Transformation des Plastiques, Societe Anonyme. Device for assembly of metallic sectional structures. 3,434,748, 3-25-69, Cl. 287-54.
Leurent, Ghislain, to Societe Industrielle de Transformation des Plastiques, Societe Anonyme. Metal railings and similar elements. 3,482,819, 12-9-69, Cl. 256-59.
Leutenegger, Bernhard. Nipple for pipe joints. 3,439,944, 4-22-69, Cl. 285-321.
Leutenegger, Willi: *See—*
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi,3,467,485.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi,3,468,620.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi,3,471,248.
Leutwyler, Kurt: *See—*
Castro, Luis F.; Keithahn, Julian D.; Leutwyler, Kurt; and Oden, Jerome H.,3,472,275.
Leva, Max. Liquid distributors and redistributors for contact towers. 3,446,489, 5-27-69, Cl. 261-97.
Levake, Richard Neilson, to C&L Industries, Inc, mesne. Conduit coupling. 3,453,006, 7-1-69, Cl. 285-104.
Levan, ames L.; and Nicholson, James F., to Westinghouse Electric Corporation. Television camera devices. 3,441,785, 4-29-69, Cl. 315-11.
Levan, Roger W., to United States of America, Atomic Energy Commission. Method of extrusion of ribbed composite members. 3,482,003, 12-2-69, Cl. 264-0.5
Le Van, Wayne P. Food merchandising package for a toaster-heated food product. 3,446,632, 5-27-69, Cl. 99-174.
Levardon, Raymond Daniel Maurice: *See—*
Desplats, Andre Emile Evariste; and Levardon, Raymond Daniel Maurice,3,474,946.
Desplats, Andre Emile Evariste; and Levardon, Raymond Daniel Maurice,3,485,478.
Levart, Eugene: *See—*
Bonnemay, Maurice M.; Bronoel, Guy G.; Levart, Eugene; and Doniat, Denis,3,484,292.
Le Vasseur, Arnold P.: *See—*
Johnson, Melvin L.; and Le Vasseur, Arnold P.,3,424,127.
Levasseur, Jean Louis, to Enthone, Incorporated, mesne. Nickel electrodepositing baths process, and additive composition comprising levelling agent therefor. 3,423,296, 1-21-69, Cl. 204-49.
Levasseur, Jean Louis, to Enthone, Incorporated, mesne. Procss of electrodepositing nickel and electro- lyte and additive composition therefor. 3,457,146, 7-22-69, Cl. 204-49.
Levasseur, Joseph E., to United States of America, Navy, mesne. Square wave fluid pressure generator. 3,453,861, 7-8-69, Cl. 73-4.
Levaux, Jean Marie, to Cockerill-Ougree-Providence. Multifuel burners. 3,476,321, 11-4-69, Cl. 239-422.
LeVaux, Rene G.: *See—*
Wood, Ernest C., 3,439,522.
Wood, Ernest C., 3,439,523.
Levavasseur, Robert, to Centre National de la Recherche Scientifique. Sound and ultra-sound generators. 3,463,716, 8-26-69, Cl. 204-193.

Leve, Norman I.; and Raiffie, Leonard E., to Consolidated Alarm Systems, Inc. Vending machine alarm. 3,451,369, 6-24-69, Cl. 116-86.
Levedahl, William J., to Teledyne, Inc., mesne. Heat pipes with unique radiator configuration in combination with thermionic converters. 3,457,436, 7-22-69, Cl. 310-4.
Levedahl, William J.: *See—*
Pravda, Milton F.; and Levedahl, William J.,3,429,122.
Le Veen, Harry H.: *See—*
Rubricius, Jeanette L., 3,457,347.
Levell, Roy William: *See—*
Fowler, Eliot Patrick; Harrison, Donald; and Levell, Roy William,3,426,199.
Leven, Samuel, to Ingersoll-Rand Company. Drilling head. 3,446,295, 5-27-69, Cl. 173-147.
Leven, Samuel: *See—*
Lincoln, Paul A.; and Leven, Samuel,3,420,319.
Levene, Leon, to Owens-Illinois, Inc. Methods for preparing organopolysiloxanes using diaryloxytitanium oxide catalysts. 3,431,229, 3-4-69, Cl. 260-33.4
Levene, Leon, to Owens-Illinois, Inc. Method of rendering glass surfaces abrasion and scratch resistant. 3,441,432, 4-29-69, Cl. 117-124.
Levene, Leon, to Owens-Illinois, Inc. Process for increasing the scuff-resistance of paper board. 3,457,100, 7-22-69, Cl. 117-76.
Levene, Leon, to Owens-Illinois, Inc. Methods for preparing organopolysiloxanes using ferric-containing catalysts. 3,474,070, 10-21-69, Cl. 260-46.5
Levene, Leon, to Owens-Illinois, Inc. Methods for preparing organopolysiloxanes at neutral conditions. 3,479,316, 11-18-69, Cl. 260-33.4
Levene, Leon; and Thomas, Ian M., to Owens-Illinois, Inc. Abrasion resistant glass surfaces. 3,441,399, 4-29-69, Cl. 65-60.
Levenson, Albert A., Jr., to Continental Can Company, Inc. Film splicing mechanism. 3,473,994, 10-21-69, Cl. 156-504.
Levenson, Sol J. Shock absorber tester. 3,456,489, 7-22-69, Cl. 73-11.
Leventhal, Elias L., to TRW Inc. Thermoelectric conversion system. 3,451,641, 6-24-69, Cl. 244-1.
Le Veque, Joseph C.: *See—*
Hicks, Morris R.; and Le Veque, Joseph C.,3,447,220.
Leveque, Treffle J. Sanding machine improvements. 3,449,868, 6-17-69, Cl. 51-141.
Lever Brother Company: *See—*
Augustin, Horst; and Heringlake, Ralph, 3,446,567.
Lever Brothers Company: *See—*
Bartoszewicz, Jerzy Jozef, 3,420,883.
Boerma, Hiepke; and van der Drift, Johan, 3,472,906.
Butt, Walter Dion, 3,455,785.
Cahn, Arno; and Gilbert, Allan H., 3,423,430.
Cahn, Arno; Winnegrad, Ronald Ross; and Gilbert, Allan H., 3,455,957.
Cahn, Arno; and Gilbert, Allan H., 3,479,301.
Carroll, Charles A.; and Vaka, James J., 3,450,757.
Curry, Janet C.; and Dudley, Wilton V., 3,455,788.
Curry, Kenneth Vasey, 3,457,175.
Das, Balaram; and Van Senden, Karl Gerhard, 3,459,669.
Eichler, Friedrich; Seip, Paulus Johannes; and Czedik-Eysenberg, Peter, 3,423,442.
Faur, Louis; and Westforp, Pieter, 3,458,545.
Heinz, Karl Ludwig, 3,470,102.
Holland, Frederick Anthony; McCrimlisk, Gerard Joseph; and Kelly, William A., 3,420,857.
Holt, Ernest Knowlton; Mueller, Herbert H.; and Urban, Warren J., 3,429,136.
Klere, Jean; and Gadefaix, Roger, 3,471,536.
Lamberti, Vincent; and Lemaire, Henry, 3,427,248.
Lamberti, Vincent; and Lemaire, Henry, 3,450,756.
Lamberti, Vincent; and Lemaire, Henry, 3,468,949.
Lester, Ralph; and Williams, Tegwyn Pierce, 3,476,573.
Linteris, Lino Luigi; and McNaught, John P., 3,460,948.
Lyons, James Ralph, 3,480,377.
Mathur, Girish Prasad; and Shanbhag, Sudhakar Pundlik, 3,472,659.
MCrimlisk, Gerard Joseph, 3,420,858.
Miles, John J., Jr.; Pader, Morton; and Thompson, Stuart W., 3,423,211.
Mills, Maurice Robert, 3,465,008.
Moses, Bernard Cecil; and Thomas, David Henry, 3,449,804.
Prall, John Karel; and Fillmore, John David, 3,440,867.
Priestley, Hill M., 3,467,717.
Savage, Jack Palmer; and Chenneour, Raymond, 3,425,850.
Seip, Paulus Johannes, 3,454,608.
Sepulveda, Ralph Raymond; and Cieri, Frank Vincent, 3,474,038.
Steed, Michael William, 3,429,646.
Tune, John Barry, 3,451,927.
Wilson, James H., 3,440,319.
Zock, Hendrik Frits, 3,446,829.
Leverenz, Klaus; and Gottschlich, Alois, to Farbenfabriken Bayer Aktiengesellschaft. Metal-containing monoazo dyestuffs. 3,468,871, 9-23-69, Cl. 260-145.
Leverett, Glenn Frederick: *See—*
Alsup, Richard Glenn; and Leverett, Glenn Frederick,3,477,993.
Leverett, Wilton H.: *See—*
Park, James H., III; Redmon, James R.; and Leverett, Wilton H.,3,450,383.
Leveskis, Newton G. Method of preparing microscope slides using terpolymers of vinyl benzene, methyl methacrylate, and acrylate ester. 3,466,209, 9-9-69, Cl. 156-57.
Levesque, Charles R.: *See—*
Kifor, Harry T.; Sprick, Walter F.; Musser, Lester W.; and Levesque, Charles R.,3,430,533.
Levesque, George Napoleon; Taylor, Paul Eugene; and Barney, Neil Ide, to Brown & Sharpe Manufacturing Company. Counter-force motivated back rest. 3,427,755, 2-18-69, Cl. 51-105.
Levesque, Joseph P. R.: *See—*
Metcalfe, Richard T.; and Levesque, Joseph P. R.,3,423,251.
Levesque, Paul E.: *See—*
Ross, John M., Jr.; and Levesque, Paul E.,3,449,261.
Levesque, Peter S.: *See—*
Schmoock, Roy F.; Guenther, Peter W.; and Levesque, Peter S.,3,484,593.
Levesque, Peter; and Haeflein, William K., to Fischer & Porter Co. Conveyor belt weighing system. 3,478,830, 11-18-69, Cl. 177-16.
Leveuf, Marcel: *See—*
Gaestel, Charles; and Leveuf, Marcel,3,437,613.
Levi, Irving; and Blondal, Harold, to Frosst, Charles E., & Co. Sodium salt of N-dichloroacetyl-DL-serine. 3,431,299, 3-4-69, Cl. 260-534.
Levick, Swift & Sons Limited: *See—*
Hadfield, Dennis; and Harrison, John, 3,450,580.
Le Vier, Paul W.: *See—*
Wilkinson, Bruce L.; and Le Vier, Paul W.,3,427,475.
Levillain, Jacques; and Bardonnet, Pierre, to Societe des Lunetiers Cottet, Poichet, Temkine & Cie, Societe en commandite simple a capital variable. Lens triming machines. 3,452,484, 7-1-69, Cl. 51-101.
Levin, Alfred A.: *See—*
Richter, Sidney; and Levin, Alfred A.,3,480,657.
Levin, Allan F., to Metal Wire Recovery Corporation. Copper recovery. 3,480,477, 11-25-69, Cl. 134-25.
Levin, Ezra. Method of processing fresh meat and fish. 3,468,674, 9-23-69, Cl. 99-111.
Levin, Gilbert V., to Du Pont de Nemours, E. I., and Company. Process for extraction and concentration of hydrophilic substances. 3,432,487, 3-11-69, Cl. 260-211.5
Levin, Louis, & Son, Inc.: *See—*
Levin, Robert S.; and La Chiusa, Arturo A., 3,474,691.
Levin, Morton H.: *See—*
Miller, Arthur; and Levin, Morton H.,3,423,689.
Levin, Myron M., to E-Z Por Corporation. Broiling pan. 3,453,949, 7-8-69, Cl. 99-446.
Levin, Nathan D.; and Noskowicz, Theodore S., to Admiral Corporation. Lighthouse collimator. 3,452,655, 7-1-69, Cl. 95-1.
Levin, Nikolai Nikolaevich; and Sturman, Grigory Isaevich, deceased0 (by Sturman, Sofya Leonidovna; administratrix). Rotary stepping motor with salient half-poles and plural control windings. 3,473,059, 10-14-69, Cl. 310-49.
Levin, Nils Herman: *See—*
Bergling, Charles Gunnar Birger; and Levin, Nils Herman,3,471,002.
Levin, Per Erik: *See—*
Backstrom, Arne Ivar; Henrikson, Sture; and Levin, Per Erik,3,479,181.
Levin, Robert E., to Sylvania Electric Products, Inc. Optical projection system. 3,484,161, 12-16-69, Cl. 353-122.
Levin, Robert E.; and Lemons, Thomas M., to Sylvania Electric Products, Inc. Spotlight lamp. 3,428,800, 2-18-69, Cl. 240-41.3
Levin, Robert S.; and La Chiusa, Arturo A., to Levin, Louis, & Son, Inc. Universal angular indexing table. 3,474,691, 10-28-69, Cl. 74-815.
Levin, Victor Herbert. Athletic footwear. 3,466,763, 9-16-69, Cl. 36-2.5
Levine, Aaron M.; and Blumenthal, Bernard S. Treadmill for testing automobiles. 3,455,153, 7-15-69, Cl. 73-117.
Levine, Alfred B. Electrical high speed printer. 3,463,081, 8-26-69, Cl. 101-93.
Levine, Alfred B. Process of repulsion printing employing a radiant energy field. 3,486,449, 12-30-69, Cl. 101-426.
Levine, Alfred L., to Bendix Corporation, The. Electrostatically digitized tape display means. 3,440,642, 4-22-69, Cl. 340-347.
Levine, Alfred L., to Bendix Corporation, The. Electrostatically digitized tape display device. 3,467,957, 9-16-69, Cl. 340-347.
Levine, Alfred L.; and Yee, Peter P. M., to Bendix Corporation, The. Electrostatic reader head. 3,479,491, 11-18-69, Cl. 235-61.11
Levine, Bernard B.: *See—*
Phillips, Robert; and Levine, Bernard B.,3,467,291.

Levine, Charles A., to Dow Chemical Company, The. Grafting of vinyl aromatic monomers onto polychlorotrifluoroethylene with irradiation. 3,442,780, 5-6-69, Cl. 204-159.17
Levine, Charles A.: *See—*
Brown, William E.; Heitz, Roberg G.; and Levine, Charles A.,3,476,602.
Levine, Duane G.: *See—*
Worsham, Charles H.; and Levine, Duane G.,3,425,873.
Levine, Edward M.: *See—*
Enkoji, Takashi; and Levine, Edward M.,3,478,026.
Levine, Elihu: *See—*
Gutleber, Frank S.; Levine, Elihu; Bogert, Warren D.; Silverstein, Samuel; and Altman, Harry,3,483,549.
Levine, Eli, to Celanese Corporation. Copolymer of vinyl esters of lower alkanoic acid, vinyl esters of tertiary alkanoic and lower alkyl methacrylates. 3,455,887, 7-15-69, Cl. 260-78.5
Levine, Eli; and Costanza, John R., to Celanese Corporation. Method of preparation of vinyl acetate copolymer latex. 3,423,352, 1-21-69, Cl. 260-29.6
Levine, Eli; and Costanza, John R., to Celanese Corporation. Method of preparing high solids vinyl acetates. 3,423,353, 1-21-69, Cl. 260-29.6
Levine, Eli; and Reuther, Philip C., to Celanese Corporation. Dicyclopentadiene modified polymers. 3,459,699, 8-5-69, Cl. 260-29.7
Levine, Eli; and Reuther, Philip C., to Celanese Corporation. Process and catalyst therefor. 3,485,811, 12-23-69, Cl. 260-89.1
Levine, Harvey: *See—*
Blanc, Albert J.; and Levine, Harvey,3,463,595.
Levine, Irving E.: *See—*
Adams, Robert T.; Levine, Irving E.; and Sweeney, William A.,3,433,846.
Levine, Irving E., to Halcon International, Inc. Carbon tetrachloride and perchloroethylene process. 3,470,260, 9-30-69, Cl. 260-654.
Levine, Irvin. Electrical rodent exterminator. 3,468,054, 9-23-69, Cl. 43-98.
Levine, Isaac J.; and Ingberman, Arthur K., to Union Carbide Corporation. Fibers and fabrics coated with an alkyl phosphite-polyolefin wax adduct and process therefor. 3,432,343, 3-11-69, Cl. 117-139.5
Levine, Isaac J.; and Ingberman, Arthur K., to Union Carbide Corporation. Modified polyolefin phosphite waxes and process for preparing the same. 3,442,983, 5-6-69, Cl. 260-932.
Levine, Jules D.: *See—*
Hernqvist, Karl G.; and Levine, Jules D.,3,452,224.
Levine, Julius. Keyholder. 3,456,464, 7-22-69, Cl. 70-456.
Levine, Leonard, to Dow Chemical Company, The. 2,3-Dihydro-1,4-dithiins as stabilizers for chlorinated hydrocarbons. 3,439,051, 4-15-69, Cl. 260-652.5
Levine, Leonard, to Dow Chemical Company, The. 4-Allyl-tetrahydro-dimethyl-2H-1,4-thiazines. 3,458,509, 7-29-69, Cl. 260-243.
Levine, Leonard, to Dow Chemical Company, The. 1-Chloro-3-(2,3,5,6-tetrachloropyrid-4-ylsulfonyl)- propan-2-OL and intermediate. 3,475,441, 10-28-69, Cl. 260-294.8
Levine, Mark, to Readex Microprint Corporation. Combination printer-viewer. 3,463,585, 8-26-69, Cl. 355-45.
Levine, Morris: *See—*
Yurcheshen, Michael; Levine, Morris; and Brane, Ralph M.,3,449,228.
Levine, Nathan B.; and Krainman, Harris, to Thiokol Chemical Corporation. Reclamation of copolymers of tetrafluoroethylene and trifluoronitrosomethane by nitric acid digestion. 3,446,759, 5-27-69, Cl. 260-2.3
Levine, Nathan B.: *See—*
Green, Joseph; Levine, Nathan B.; and Sheehan, William R.,3,427,279.
Levine, Richard C., to Bell Telephone Laboratories, Incorporated. Low-loss, low-distortion transmission lines. 3,439,120, 4-15-69, Cl. 178-45.
Levine, Richard G.: *See—*
Edwards, Junious J.; and Levine, Richard G.,3,420,196.
Levine, Samuel W.; and Copeland, John S., to Fairchild Camera and Instrument Corporation. Apparatus for electrophotographic printing. 3,420,151, 1-7-69, Cl. 355-400.
Levine, Seymour D., to Squibb, E. R., & Sons, Inc. Synthesis of steroids. 3,420,855, 1-7-69, Cl. 260-346.2
Levine, Seymour D., to Squibb, E. R., & Sons, Inc., mesne. 3β,5β-Epoxy-A-norandrostane-2-ones. 3,449,376, 6-10-69, Cl. 260-348.
Levine, Seymour D., to Squibb, E. R., & Sons, Inc, mesne. Steroids of the 3,4-diaza-$\Delta^{1,4}$-androstadiene series. 3,461,124, 8-12-69, Cl. 260-250.
Levine, Seymour D., to Squibb, E. R., & Sons, Inc. Synthesis of steroids. 3,463,792, 8-26-69, Cl. 260-348.
Levine, Seymour D., to Squibb, E. R., & Sons, Inc. 3,4-Diazapregnanes. 3,483,202, 12-9-69, Cl. 260-250.
Levine, Seymour D.; and Diassi, Patrick A., to Squibb, E. R., & Sons, Inc., mesne. Derivatives of Anorprogesterone. 3,424,786, 1-28-69, Cl. 260-488.
Levine, Seymour D.; and Diassi, Patrick A., to Squibb, E. R., & Sons, Inc., mesne. Derivatives of A-norprogesterone. 3,424,787, 1-28-69, Cl. 260-488.
Levine, Seymour D.; and Diassi, Patrick A., to Squibb, E. R., & Sons, Inc. Derivatives of A-norprogesterone. 3,439,023, 4-15-69, Cl. 260-488.
Levine, Seymour D.; and Diassi, Patrick A., to Squibb, E. R., & Sons, Inc., mesne. Synthesis of steroids. 3,449,377, 6-10-69, Cl. 260-348.
Levine, Seymour D.; and Diassi, Patrick A., to Squibb, E. R., & Sons, Inc. A-norsteroids. 3,468,955, 9-23-69, Cl. 260-586.
Levine, Seymour D.; and Diassi, Patrick A., to Squibb, E. R., & Sons, Inc. Synthesis of a-norandrostane steroids. 3,483,223, 12-9-69, Cl. 260-343.3
Levine, Seymour D.; and Principe, Pacifico A., to Squibb, E. R., & Sons, Inc.6-Oxygenated-3,4-diaza-Δ^4-androstenes. 3,471,495, 10-7-69, Cl. 260-250.
Levine, Seymour D.; and Weisenborn, Frank L., to Squibb, E. R., & Sons, Inc. Synthesis of steroidal pyrazoles and pyrazolines. 3,452,044, 6-24-69, Cl. 260-310.
Levine, Seymour D.: *See—*
Principe, Pacifico; and Levine, Seymour D.,3,479,391.
Levine, Seymour T. Frequency sensitive apparatus. 3,470,536, 9-30-69, Cl. 340-171.
Levine, Sidney, to American Aluminum Window Corp. Sealing bar for sliding glass door units. 3,442,052, 5-6-69, Cl. 49-425.
Levine, Sol: *See—*
Scott, Morton W.; and Levine, Sol,3,471,611.
Scott, Morton W.; Hayes, Raymond K.; and Levine, Sol,3,437,095.
Levine, Walter E.: *See—*
DelVecchio, Leonard Patrick, Jr.; and Levine, Walter E.,3,482,196.
Levinn, Robert N.: *See—*
Moyer, Joseph K.; and Levinn, Robert N.,3,421,131.
Levinn, Robert N., to American Thermostat Corporation. Thermostat construction. 3,423,713, 1-21-69, Cl. 337-365.
Levinn, Robert N.; Moyer, Joseph K.; and Rose, Melvin J., to American Thermostat Corporation. Thermostat and tip switch assembly. 3,451,029, 6-17-69, Cl. 337-349.
Levinos, Steven, to GAF Corporation. Protective localized area resin coatings for electroplating. 3,451,902, 6-24-69, Cl. 204-15.
Levinos, Steven, to GAF Corporation. Offset printing plates. 3,474,719, 10-28-69, Cl. 96-75.
Levinos, Steven; and Bergfjord, John A., to General Aniline & Film Corporation. Photopolymer offset printing plates of the etch type. 3,440,047, 4-22-69, Cl. 96-36.3
Levinos, Steven; and Deutsch, Albert S., to GAF Corporation. Photopolymerization initiated by electrolysis of a catalyst progenitor exposed through a photo- conductive layer. 3,436,215, 4-1-69, Cl. 96-1.
Levins, Philip Leo: *See—*
Till, Derek Elliott; Levins, Philip Leo; and Koch, David Hamilton,3,434,479.
Levins, Philip L., to Bausch & Lomb, Incorporated, mesne. Aryl thioether immersion liquids. 3,437,402, 4-8-69, Cl. 350-179.
Levinsky, Ely S.: *See—*
Strand, Torstein; Levinsky, Ely S.; and Timin, Mitchell E.,3,430,894.
Levinsky, Henry Leon; and Rubinfeld, Joseph, to Colgate-Palmolive Company. Dental compositions comprising long-chain olefin sulfonates. 3,462,525, 8-19-69, Cl. 424-56.
Levinson, David J. Coffee brewing head. 3,470,812, 10-7-69, Cl. 99-295.
Levinson, Leo, to Monsanto Graphic Systems, Inc., mesne. Apparatus for fusing an electroscopic powder particle image. 3,437,072, 4-8-69, Cl. 118-9.
Levinson, Melvin L. Microwave ultrasonic apparatus. 3,451,401, 6-24-69, Cl. 134-58.
Levinson, Melvin L. Heating a moving conductor by electromagnetic wave irradiation in the microwave region. 3,452,176, 6-24-69, Cl. 219-10.61
Levinson, Melvin L. Microwave kiln. 3,469,053, 9-23-69, Cl. 219-10.55
Levinstein, Hyman J.: *See—*
Kunzler, John E.; Levinstein, Hyman J.; and Rowell, John M.,3,423,607.
Levinstein, Moses A.; and Butts, William R., to General Electric Company. Method for making a hollow metal article. 3,466,166, 9-9-69, Cl. 75-0.5
Levinstein, Moses A.: *See—*
Foldes, Stephen; and Levinstein, Moses A.,3,420,689.
Levis, Calvin E.: *See—*
Gerlitz, Frank E., Jr.; and Levis, Calvin E.,3,427,878.
Levis, Cyril R. Yieldable filter element cleaning. 3,428,181, 2-18-69, Cl. 210-333.
Levis, William W., Jr.: *See—*
Kokorudz, Michael; Langdon, William K.; and Levis, William W., Jr.,3,459,762.

Levishko, Anatoly Alexandrovich; Kaljunov, Gennady Alexandrovich; and Gorin, Evgeny Leontievich. Base structure of gyratory cone crusher. 3,467,322, 9-16-69, Cl. 241-213.
Levit, Edward C.; and Olree, Adrian R., to Steelcase, Inc. Stacking trays. 3,482,708, 12-9-69, Cl. 211-126.
Levitan Maurice D.: *See—*
Staats, Henry N.; Levitan Maurice D.; and Morrissey, Neal J.,3,483,067.
Levitch, Robert G., to Burlington Industries, Inc., mesne. Method for pressing and laminating a pile fabric. 3,424,639, 1-28-69, Cl. 156-314.
Levite, Gideon, to Baldwin-Lima-Hamilton Corporation. Multistage flash evaporator-condenser arrangement. 3,442,765, 5-6-69, Cl. 202-173.
Leviton Manufacturing Co., Inc.: *See—*
Bienwald, Wolfgang F.; and Bowie, William J., 3,435,169.
Bienwald, Wolfgang F.; and Tum Suden, Herbert W., Jr., 3,444,498.
Levitsky, Isaak Iosifovich: *See—*
Krylov, Nikolai Ivanovich; Popov, Boris Vasilievich; Sidorov, Pavel Ivanovich; Saksagansky, Alexandr Teodorovich; Levitsky, Isaak Iosifovich; and Golovkina, Tatyana Borisovna,3,428,096.
Levitt, Harold O. Scaling and calculating instrument. 3,467,307, 9-16-69, Cl. 235-89.
Levitt, Joseph R. Data processing method and means. 3,442,264, 5-6-69, Cl. 128-2.06
Levitt Manufacturing Corporation: *See—*
Orr, Matthew Fay, 3,473,622.
Levitt, Milton R., to Scholl Mfg., Co., Inc., The. Bolster pad and method of making the same. 3,467,084, 9-16-69, Cl. 128-81.
Levitt, Ralph S., to U.S. Philips Corporation, mesne. Differential optical system and optical elements therefor. 3,449,051, 6-10-69, Cl. 356-130.
Levitt, Semond: *See—*
Katz, Solomon; and Levitt, Semond,3,473,678.
Levkin, Dmitry Dmitrievich: *See—*
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexcevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.
Levolor Lorentzen, Inc.: *See—*
Anderle, Joseph A., 3,447,586.
Anderle, Joseph A., 3,485,285.
Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo, 3,447,585.
Lorentzen, Hans K.; and Abate, Leo, 3,485,286.
Le Voy's Inc.:*See—*
Ipson, Don L., 3,481,336.
Pannier, Karl A., Jr., 3,438,373.
Reynolds, Gordon S.; and Pannier, Karl A., Jr., 3,435,819.
Ring, Wallace H.; Pannier, Karl A., Jr.; and Sorenson, James L., 3,459,183.
Ring, Wallace H., 3,459,184.
Levy, Alan J.; and Litt, Morton H., to Allied Chemical Corporation. Copolymers from cyclic iminoethers. 3,458,456, 7-29-69, Cl. 260-2.
Levy, Alan J.; and Litt, Morton H., to Allied Chemical Corporation. Novel C-N backbone polymers. 3,464,933, 9-2-69, Cl. 260-2.
Levy, Alan J.; and Litt, Morton H., to Allied Chemical Corporation. Polymers of acyloxyalkyl substituted oxazolines. 3,483,145, 12-9-69, Cl. 260-2.
Levy, Alan J.: *See—*
Litt, Morton H.; Levy, Alan J.; and Bassiri, Taghi G.,3,483,141.
Levy, Bernard D.: *See—*
Cohen, Irvin; and Levy, Bernard D.,3,452,636.
Levy, Boris, to Mobil Oil Corporation. Ion-molecule reactions. 3,462,354, 8-19-69, Cl. 204-158.
Levy, Chauncey F., Jr.: *See—*
Gitlin, Manuel M.; and Levy, Chauncey F., Jr.,3,475,083.
Levy, Donald; Rusz, Tibor; and Szekely, Steven M., to Milab Incorporated. Gas analyzer-controller equipment. 3,465,753, 9-9-69, Cl. 128-188.
Levy, Eugene A. Antismog device. 3,435,597, 4-1-69, Cl. 55-269.
Levy, Eugene J., to Hewlett-Packard Company, mesne. Pyrolysis system. 3,425,807, 2-4-69, Cl. 23-232.
Levy, Felix. Hydraulic propeller by compound reaction. 3,441,088, 4-29-69, Cl. 170-156.
Levy, Hans F. Humidifier device. 3,453,414, 7-1-69, Cl. 219-362.
Levy, Irving M.; and Whelan, James E., to General Motors Corporation. Cooling arrangement for dynamoelectric machines. 3,439,201, 4-15-69, Cl. 310-52.
Levy, Jerome F.: *See—*
Emmons, William D.; and Levy, Jerome F.,3,468,934.
Levy, Joseph, to Universal Oil Products Company. Esters of substituted acetohydroxamic acids with tertiary amino alchols. 3,481,940, 12-2-69, Cl. 260-294.
Levy, Kenneth E.: *See—*
Berriman, Lester P.; and Levy, Kenneth E.,3,484,904.
Levy, Kurt: *See—*
Kittredge, Raymond E.; Levy, Kurt; and Kripl, Josef F.,3,470,629.
Levy, Martin R.: *See—*
Ballou, Jack W.; and Levy, Martin R.,3,485,708.
Evans, Franklin James; and Levy, Martin R.,3,485,709.
Levy, Marvin J. Electrical distribution circuit directory. 3,460,281, 8-12-69, Cl. 40-63.
Levy, Milton. Anticolic straw for nursing bottles. 3,441,160, 4-29-69, Cl. 215-11.
Levy, Murray N., to American Electronic Laboratories, Inc. Electrical probe for testing transistors and the like having rotatably supported actuator for plural probe tips. 3,447,078, 5-27-69, Cl. 324-72.5
Levy, Murray N.; Shinbaum, Marvin S.; and Strance, John S., to Bliss, E. W., Company. On board vehicle fire protection system. 3,465,827, 9-9-69, Cl. 169-2.
Levy, Paul F.; and Tabeling, Raymond W., to Du Pont de Nemours, E. I., and Company. Thermomechanical analyzer. 3,474,658, 10-28-69, Cl. 73-16.
Levy, Paul M.: *See—*
Berman, Marvin A.; Levy, Paul M.; and Mayer, Albert,3,435,959.
Levy, Ralph M., to Standard Pressed Steel Co. Spring pin. 3,425,311, 2-4-69, Cl. 85-8.3
Levy, Richard H.: *See—*
Janes, George S.; and Levy, Richard H.,3,441,756.
Levy, Samuel C., to United States of America, Atomic Energy Commission, mesne. Thermal battery having heat generating means comprising exothermically alloyable metals. 3,425,872, 2-4-69, Cl. 136-83.
Levy, Saul Y., to RCA Corporation. Multiprocessing computer system with special instruction sequencing. 3,470,540, 9-30-69, Cl. 340-172.5
Levy, Stanley P. Device for the storage of information by electrochemical means. 3,466,617, 9-9-69, Cl. 340-173.
Levy, Warren W., to Simco Company, Inc., The. Dual phase static eliminator. 3,475,652, 10-28-69, Cl. 317-2.
Levy, William. Slidable apparatus to carry a waste container. 3,425,765, 2-4-69, Cl. 312-274.
Levy, Winifred Jane; Newport, John Prescott; and Reynolds, Reginald John William, to Imperial Chemical Industries Limited. Clarification of aqueous systems. 3,432,430, 3-11-69, Cl. 210-51.
Lew, Clinton: *See—*
Bockwoldt, Walter H.; and Lew, Clinton,3,453,382.
Lew Hin: *See—*
Bloom, Myer; Enga, Eric; and Lew Hin,3,484,603.
Lew Mfg. Co.: *See—*
Lanoie, Raymond A., 3,436,160.
Lewallen, John V., to Phillips Petroleum Company. Tractor-trailer fifth wheel bearing. 3,427,657, 2-11-69, Cl. 308-136.
Lewallen, John V., to Phillips Petroleum Company. Hinged laminate. 3,445,052, 5-20-69, Cl. 229-16.
Lewandowski, Adolf: *See—*
Plotz, Georg; Mayer, Andreas; and Lewandowski, Adolf,3,421,333.
Lewanski, Richard M.: *See—*
French, Jack W.; Lewanski, Richard M.; and Modry, Richard E.,3,456,277.
Lewellen, W D: *See—*
Tucker, Walter M.; and Lewellen, W D,3,423,882.
Lewicki, Walter J., Jr., to Scott Paper Company. Electrostatic deposition of compositions on sheet materials utilizing pre-existing friction induced electrostatic charges on said sheet materials. 3,484,275, 12-16-69, Cl. 117-93.4
Lewiecki, Edward M.; and Shnitzler, Meyer J., to Gillette Company, The. Aerosol dispensers and actuator buttons therefor. 3,428,223, 2-18-69, Cl. 222-398.
Lewin, Gerhard: *See—*
Parsonnet, Victor; Myers, George H.; and Lewin, Gerhard,3,476,116.
Lewin, Gunnar Erik Werner. Spring lock. 3,476,426, 11-4-69, Cl. 292-76.
Lewin, Leonard; Hodgson, Kenneth George; and Allen, Stanley George, to International Standard Electric Corporation. Tunnel diode circuits. 3,467,911, 9-16-69, Cl. 330-61.
Lewin, Menachem, to State of Israel, Ministry of Trade and Industry. Fire-proofing of cellulosic material with a bonding agent containing bromides. 3,484,340, 12-16-69, Cl. 162-159.
Lewin, Morton H., to RCA Corporation. Analog position to binary number translator. 3,466,646, 9-9-69, Cl. 340-347.
Lewinski, Robert W.: *See—*
Hayden, Fred M.; and Lewinski, Robert W.,3,450,933.
Lewinson, Lothar J., to Admiral Corporation. Mask-frame captivator. 3,454,813, 7-8-69, Cl. 313-284.
Lewis, Alan: *See—*
Hooton, Ivor Noel; Best, Geoffrey Cyril; and Lewis, Alan,3,482,036.

Lewis, Albert; Robbins, David L.; and Kelley, Lawrence W., to Glass Fibers Products, Inc., mesne. High strength-high modulus glass fibers. 3,484,259, 12-16-69, Cl. 106-50.
Lewis, Alun Kynric. Spinning baits. 3,466,786, 9-16-69, Cl. 43-42.17
Lewis, Benjamin Arthur; Sassiver, Martin Leon; and Shepherd, Robert Gordon, to American Cyanamid Company. Substituted 7-acetylaminocephalosporanic acids. 3,459,747, 8-5-69, Cl. 260-243.
Lewis, Bernard L., to Radiation Incorporated. Stepped dielectric constant end fire antenna. 3,435,458, 3-25-69, Cl. 343-753.
Lewis, Bernard L., to Radiation Incorporated. Electrostatically controlled light modulator. 3,443,098, 5-6-69, Cl. 250-199.
Lewis, Bernard L., to Radiation Incorporated. Ferroelectric memory device. 3,460,103, 8-5-69, Cl. 340-173.2
Lewis Card & Co., Inc.: *See*—
Card, Roy T., 3,442,233.
Lewis, Charles B.: *See*—
Dale, Ingvald; and Lewis, Charles B.,3,432,161.
Lewis, Charles Edward, to American Cyanamid Company. 1-Amino-(and · methylamino) 2-bromo-4-[p- (β-hydroxyethyl)-anilino]-anthraquinone disperse dyes for nylon and polypropylene. 3,434,792, 3-25-69, Cl. 8-39.
Lewis, Charles W.: *See*—
Gillery, Frank H.; Pressau, Jean P.; and Lewis, Charles W.,3,477,936.
Lewis, Charles W., to PPG Industries, Inc. Variable transmission windows. 3,473,863, 10-21-69, Cl. 350-160.
Lewis, Clarence A., Jr., to Bobst Champlain, Inc. Web control systems with integrator. 3,474,311, 10-21-69, Cl. 318-6.
Lewis, Clarence T. Paper cutter. 3,447,409, 6-3-69, Cl. 83-485.
Lewis, Colin Bright, to Associated Electrical Industries Limited. Encapsulated diode with spring pressed contacts and reduced ionization stresses. 3,461,358, 8-12-69, Cl. 317-234.
Lewis, Colin Bright, to Associated Electrical Industries Limited. Adjustable pressure contact semiconductor devices. 3,480,844, 11-25-69, Cl. 317-234.
Lewis, Dean F. Cargo strap clip. 3,477,104, 11-11-69, Cl. 24-201.
Lewis, Derek C.; and Westwood, William D., to Northern Electric Company, Limited. Method of making ferrimagnetic films by cathodic sputtering. 3,438,885, 4-15-69, Cl. 204-192.
Lewis, Donald A.: *See*—
Lewis, Kenneth R., by; and Lewis, Donald A.; guardian of said Lewis Kenneth R., incompetent,3,486,198.
Lewis, Donald B., to General Motors Corporation. Thermostatic control. 3,459,163, 8-5-69, Cl. 123-122.
Lewis, Donald W.: *See*—
Russell, Richard A.; and Lewis, Donald W.,3,436,669.
Lewis, Donald, to Weycroft Macford Limited. Pressure milking machine. 3,481,309, 12-2-69, Cl. 119-14.18
Lewis, Dorothy Bailey. Electrically heated horse's leg binding. 3,470,350, 9-30-69, Cl. 219-211.
Lewis, Douglass H.: *See*—
Evens, Robert L.; Lewis, Douglass H.; and Chew, Norman Bradford,3,436,900.
Lewis, Dwight, Charles, to Penn Controls, Inc. Thermostat. 3,445,632, 5-20-69, Cl. 219-511.
Lewis, Dwight Charles, to Penn Controls, Inc. Fluid fuel burner control utilizing slaved silicon controlled rectifiers. 3,453,063, 7-1-69, Cl. 431-69.
Lewis, Edmond S., Jr., to Corning Glass Works. Method of drawing glass articles. 3,420,649, 1-7-69, Cl. 65-66.
Lewis, Edward F.: *See*—
Heckrotte, Robert S.; Lewis, Edward F.; and Sinson, Elwood A.,3,428,289.
Lewis, Edward V., to California Computer Products, Inc. Optical writing device. 3,464,330, 9-2-69, Cl. 95-1.
Lewis, Eric, to Plessey Company Limited, The. Ticket-checking machines. 3,463,907, 8-26-69, Cl. 235-61.11
Lewis, Ernest Eber, to General Electric Company. Hydraulically operated tool for operating under nonatmospheric pressures. 3,477,523, 11-11-69, Cl. 173-163.
Lewis, Ernest E., to Gainesville Machine Company, Inc. Giblet pumping apparatus. 3,420,578, 1-7-69, Cl. 302-14.
Lewis, Evan T.: *See*—
Heth, Sherman C.; and Lewis, Evan T.,3,429,109.
Lewis, Frank M., Jr., to Kimberly-Clark Corporation. Disposable surgical legging. 3,424,153, 1-28-69, Cl. 128-132.
Lewis, Frank M., Jr.; and Wideman, Ronald H., to Kimberly-Clark Corporation. Sheet material creped tissue product. 3,424,643, 1-28-69, Cl. 161-57.
Lewis, Frank M., Jr.: *See*—
Sokolowski, Robert C.; Lewis, Frank M., Jr.; and Hrubecky, Frederick J.,3,484,330.
Lewis, Frederick M., to General Electric Company. One-package room temperature curable polysiloxane compositions. 3,451,965, 6-24-69, Cl. 260-46.5
Lewis, G. B., Company: *See*—
Frater, Allen H., 3,486,634.
Lewis, Geoffrey Arthur: *See*—
Bottoms, Harry Simister; and Lewis, Geoffrey Arthur,3,447,470.
Lewis, George D., to United Aircraft Corporation. Method of making a tubular walled chamber. 3,426,409, 2-11-69, Cl. 29-157.4
Lewis, George D.; and Dahlberg, Donald E., to United Aircraft Corporation. Axial concentric sheet injector. 3,446,024, 5-27-69, Cl. 60-258.
Lewis, George D.; and Ford, Harvey J., to United Aircraft Corporation. Combustion instability reduction device. 3,483,698, 12-16-69, Cl. 60-39.72
Lewis, George E., to Hydril Company. Sealing of underwater equipment. 3,486,759, 12-30-69, Cl. 277-73.
Lewis, George L.: *See*—
Emslie, Robert S.; Gulledge, Hugh C.; Lewis, George L.; and Willcox, Oswin Burr,3,484,260.
Lewis, Gerald F.; and Jones, David P., to Robbins, Jim Seat Belt Co. Inertia retracting device with energy absorbing element. 3,431,019, 3-4-69, Cl. 297-386.
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J., to Robbins, Jim, Seat Belt Co. Belt retracting device with pendulum actuated locking means. 3,439,932, 4-22-69, Cl. 280-150.
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J., to Robbins, Jim, Seat Belt Co. Inertia retracting device with weight actuated take-up. 3,442,529, 5-6-69, Cl. 280-150.
Lewis, Guy C. Boat drive. 3,461,831, 8-19-69, Cl. 115-12.
Lewis, Harold F.; and Hayes, Monson H., Jr., to North American Rockwell Corporation. System for modulating input signals with digital reference signals for generating resolver drive signals. 3,478,198, 11-11-69, Cl. 235-186.
Lewis, Harry M., to Modern Engraving and Machine Corporation. Micro-wedge assembly. 3,455,236, 7-15-69, Cl. 101-23.
Lewis, Hazel W.: *See*—
Goins, Buren L.; Lewis, Hazel W.; and Dellinger, Larry D.,3,427,057.
Lewis, Henry Walter; and Larson, John L., to Ingersoll Milling Machine Company, The. Boring machine with power actuated tooth adjustment. 3,457,810, 7-29-69, Cl. 77-57.
Lewis, Henry. Compound steering mechanism for vehicles. 3,454,123, 7-8-69, Cl. 180-23.
Lewis, Herbert D., to Wagner Electric Corporation, mesne. Transformer. 3,448,340, 6-3-69, Cl. 317-14.
Lewis, Jack R.; and Nagle, George D., to Keystone Cable Corporation. Apparatus for making battery cable terminals. 3,442,323, 5-6-69, Cl. 164-332.
Lewis, James A.: *See*—
Burke, Harry T.; Helrigel, Robert A.; and Lewis, James A.,3,483,726.
Lewis, John C., Jr. Brush machinery and brush constructions. 3,471,202, 10-7-69, Cl. 300-2.
Lewis, John Charles, to Ohio Crankshaft Company, The. Device for moving a cooled zone through an inductively heated workpiece. 3,423,557, 1-21-69, Cl. 219-10.75
Lewis, John William: *See*—
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter,3,464,992.
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter,3,464,993.
Lewis, John; and Lissaman, Brian Thomas, to Humber Limited. Synchromesh gears. 3,450,240, 6-17-69, Cl. 192-53.
Lewis, Karl R. Mechanism for converting rotary motion to reciprocating and rotary motion. 3,461,731, 8-19-69, Cl. 74-22.
Lewis, Karl R. Bolt and firing mechanism for bolt action type firearm. 3,471,961, 10-14-69, Cl. 42-20.
Lewis, Kenneth D., to Perf-A-Roller Company, Inc., mesne. Wallpaper removing roller. 3,431,616, 3-11-69, Cl. 29-121.
Lewis, Kenneth R., by; and Lewis, Donald A.; guardian of said Lewis Kenneth R., incompetent, to Goodyear Tire & Rubber Company, The. Tire mold bead centering device. 3,486,198, 12-30-69, Cl. 18-42.
Lewis Knitting Company: *See*—
Broderson, Dean E., 3,442,338.
Lewis, Leon L.: *See*—
Marshall, Mervin D.; and Lewis, Leon L.,3,472,634.
Lewis, Martin, Jr.: *See*—
Abbott, William Glen, 3,470,279.
Lewis, Martyn A., to Ampex Corporation. Incremental web member drive system. 3,487,392, 12-30-69, Cl. 340-174.1
Lewis, Marvin; and Welsh, Paul J., to Houghton, E. F., & Co. Method of quenching. 3,475,232, 10-28-69, Cl. 148-18.
Lewis, Neil D.: *See*—
Stengel, James L.; and Lewis, Neil D.,3,438,629.
Lewis, Neil. Weighted pivoted lever exercising device. 3,475,024, 10-28-69, Cl. 272-81.
Lewis, Norman J., to Tot-Top Company. Locking closure with false release for toxic contents. 3,451,576, 6-24-69, Cl. 215-9.
Lewis, Olin S.; and Morran, Troy V. Fishing apparatus. 3,419,990, 1-7-69, Cl. 43-6.5
Lewis, Philip W.; Zitzelman, Karl; and Brom, Lawrence V., to Container Corporation of America. Corner construction for hollow wall tray. 3,450,347, 6-17-69, Cl. 229-34.
Lewis, Ralph R. Spark intensifier gap with a transformer coil around the cable. 3,441,797, 4-29-69, Cl. 315-57.
Lewis, Richard D. Key loop game device. 3,441,282, 4-29-69, Cl. 273-158.

Lewis, Richard E.: *See—*
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M.,3,445,836.
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M.,3,474,435.
Lewis, Richard J., to Bendix Corporation, The. Electric torque motor with adjustable slotted pole pieces. 3,434,083, 3-18-69, Cl. 335-230.
Lewis, Richard J., to Miner Industries, Inc. Toy floating bathtub. 3,457,670, 7-29-69, Cl. 46-91.
Lewis, Richard J., to Goodyear Tire & Rubber Company, The. Spacer for dual wheel rims. 3,486,798, 12-30-69, Cl. 301-13.
Lewis, Richard L., to Bendix Corporation, The. Indicating device for dual hydraulic system. 3,421,321, 1-14-69, Cl. 60-54.6
Lewis, Richard L., to Bendix Corporation, The. Sealed wheel cylinder. 3,478,649, 11-18-69, Cl. 92-50.
Lewis, Richard L.; and Barnes, Charles M., to Bendix Corporation, The. Valve locking means. 3,438,399, 4-15-69, Cl. 137-625.69
Lewis, Richard L.; Ferrell, William E.; and Shutt, Paul B., to Bendix Corporation, The. Master cylinder vent valve. 3,423,939, 1-28-69, Cl. 60-54.6
Lewis, Richard L.; and Smith, Donald W., to Bendix Corporation, The. Pressure hold-off valve. 3,462,201, 8-19-69, Cl. 303-6.
Lewis, Richard L.; and Smith, Donald W., to Bendix Corporation, The. Proportioning valve. 3,479,095, 11-18-69, Cl. 303-22.
Lewis, Richard L.; Van Anrooy, John A.; and Smith, Donald W., to Bendix Corporation, The. Fluid pressure proportioning means. 3,462,200, 8-19-69, Cl. 303-6.
Lewis, Richard W.; and White, Jerome R., to Du Pont de Nemours, E. I., and Company. Heating apparatus. 3,461,261, 8-12-69, Cl. 219-10.55
Lewis, Richard; and Pryor, Paul D., to Glamorise Foundation, Inc. Sripping cutters for sewing machines. 3,436,999, 4-8-69, Cl. 83-561.
Lewis, Robert Bee; and Derry, William Thomas, du Pont de Nemours, E. I., and Company. End support for core. 3,430,888, 3-4-69, Cl. 242-68.4
Lewis, Robert E., to Electronics Corporation of America. Connector structure. 3,434,099, 3-18-69, Cl. 339-176.
Lewis, Robert E., to L & T Machine Products, Inc. Joint structure. 3,462,181, 8-19-69, Cl. 287-189.36
Lewis, Robert H.; Barbour, John P.; Dyke, Walter P.; and Grundhause, Frank J., to Field Emission Corporation. High energy field emission electron radiation pulse generator, X-ray apparatus and system employing same. 3,482,096, 12-2-69, Cl. 250-65.
Lewis, Roger N.: *See—*
Friedman, Ronald L.; and Lewis, Roger N.,3,444,230.
Lewis, Ronald G.; and Erman, William F., to Procter & Gamble Company, The. Process for making α-santalol. 3,478,114, 11-11-69, Cl. 260-631.5
Lewis, Samuel P.: *See—*
Kurt, Ewald H.; Wickens, Edward F.; and Lewis, Samuel P.,3,424,065.
Lewis, Sheldon N.: *See—*
Bayer, Horst O.; Lewis, Sheldon N.; and Unger, Victor H.,3,468,946.
Lewis, Sheldon N.; and Miller, George A., to Rohm & Haas Company. Transition metal complexes of substituted dimercaptomethylenes. 3,449,388, 6-10-69, Cl. 260-429.9
Lewis, Sidney T.: *See—*
Whitmore, Henry B.; Lewis, Sidney T.; Ritzinger, Frederick R.; and Harris, Leonard,3,436,841.
Lewis, Thomas E.; and Lightner, Robert B., to Reynolds Metals Company. Apparatus for making strip conductor coils and the like with terminal leads attached thereto. 3,420,429, 1-7-69, Cl. 228-3.
Lewis, Thomas Glenn, Jr.: *See—*
Camhi, Jack C.; Hackney, Donald E.; and Lewis, Thomas Glenn, Jr.,3,422,494.
Lewis, Thomas W., II: *See—*
Henry, George R.; and Lewis, Thomas W., II,3,432,315.
Lewis, Tillie, Foods, Inc.: *See—*
Jones, Robert Eynon, 3,475,180.
Lewis, Wallace J.: *See—*
Nelson, Jerome W.; and Lewis, Wallace J.,3,432,638.
Nelson, Jerome W.; and Lewis, Wallace J.,3,457,387.
Lewis, Walter E. F., to Atlantic Richfield Company. Wax compositions containing graft polymer of polyethylene and to paperboards coated therewith. 3,428,591, 2-18-69, Cl. 260-28.5
Lewis, Walter E. F.: *See—*
Kremer, Charles J.; Lewis, Walter E. F.; and Gilden, Aaron Robert,3,458,392.
Lewis, Warren K., Jr.: *See—*
Jahnig, Charles E.; and Lewis, Warren K., Jr.,3,424,554.
Lewis, Wilfrid B.; and Wolfe, William A., to Atomic Energy of Canada Limited. Variable reluctance electric generators with stacked permanent magnet discs. 3,470,408, 9-30-69, Cl. 310-168.
Lewis, William H.; and Rogers, Joe Y., Jr., to Cabot Corporation. Carbon black oxidative heat treatment. 3,481,754, 12-2-69, Cl. 106-307.
Lewis, William H.: *See—*
Rogers, Joe Young, Jr.; and Lewis, William H.,3,436,240.
Lewis, William J.; and Smith, Rollin P., to National Lead Company. Selective recovery of salts from mixed salt solutions. 3,484,195, 12-16-69, Cl. 23-121.
Lewis, William L.: *See—*
Kvavle, Robert C.; Lewis, William L.; and De Caro, Charles J.,3,469,757.
Lewis, William R.; Bird, Wilmer L.; and Mindick, Morris, 1/2 interest each to Esso Research and Engineering Company, and Howe-Baker Engineers, Inc. Sweetening process utilizing ion exchange compositions. 3,454,488, 7-8-69, Cl. 208-191.
Lewis-Shepard: *See—*
Becker, Bernard B., 3,455,599.
Lewkowicz, Josef, to Atlas Copco Aktiebolag. Adjusting head for drill booms. 3,481,410, 12-2-69, Cl. 173-43.
Lewlew, John J.: *See—*
Hague, Robert Z.; Ballard, John S.; Lewlew, John J.; and Miller, Franklin G.,3,420,141.
Lewo, Chemische Fabrik GmbH, Firma: *See—*
Nohl, Egon, 3,447,754.
Leworthy, John: *See—*
Knight, John R.; and Leworthy, John,3,428,270.
Lewry, Kenneth Martin, to Kearney & Trecker-C.V.A. Limited. Multiple operation machine tools. 3,435,498, 4-1-69, Cl. 29-33.
Lewton, Deo: *See—*
Ornas, Theodore, Jr.; and Lewton, Deo,3,430,229.
Lex, Charles George: *See—*
Cole, John Wayne; and Lex, Charles George,3,468,880.
Lexington Instrument Corporation: *See—*
Karsh, Herbert; and Goldberg, Harold S., 3,438,367.
Karsh, Herbert, 3,438,368.
Karsh, Herbert, 3,460,527.
Karsh, Herbert, 3,463,143.
Karsh, Herbert, 3,467,863.
Lexington Laboratories, Inc.: *See—*
Campbell, William B.; and Kingery, William D., 3,449,071.
Campbell, William B.; and Schaffer, Philip S., 3,449,147.
Lexsuco, Inc.: *See—*
Curtis, Frank W., 3,466,222.
Ley, Anthony J., to Solartron Electronic Group Limited, The. Multiplicative modulators. 3,440,441, 4-22-69, Cl. 307-229.
Ley, Anthony John, to Solartron Electronic Group Limited, The. Method and apparatus for testing dynamic response using chain code input function. 3,471,779, 10-7-69, Cl. 324-57.
Ley, Gordon S.; and Cullom, John H., to Westinghouse Electric Corporation. Slotted optical maser active element. 3,467,916, 9-16-69, Cl. 331-94.5
Leyarovski, Evgeni Iliev; and Nanev, Zvetan, to Nautchno-Izsledovatelski Sektor Pri Phisitcheskia Fakultet Na Sofyiski Universitet. Method and apparatus for liquefaction of neon. 3,473,342, 10-21-69, Cl. 62-9.
Leybold Holding Aktiengesellschaft: *See—*
Barz, Alfred, 3,425,281.
Leybold-Heraeus G.m.b.H. & Co. KG: *See—*
Bachler, Werner G.; and Noller, Hans-Georg, 3,437,261.
Bode, Helmut; and Brinkman, Rudolf, 3,438,570.
Floymayr, Joachim, 3,472,941.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, 3,459,367.
Leybold-Heraeus-Verwaltung G.m.b.H.: *See—*
Habendorff, Richard; and Fischer, Willi, 3,434,935.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, 3,463,385.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, 3,463,387.
Schulze, Harald, 3,481,142.
Wutz, Maximilian, 3,465,240.
Leybold-Heraeus-Verwaltung GmbH & Co., KG: *See—*
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, 3,458,120.
Leybourne, Allen E., III, to Monsanto Company. Polymerizer apparatus. 3,476,523, 11-4-69, Cl. 23-285.
Leybourne, Allen E.: *See—*
Dew, William F., Jr.; Thompson, Byrd T., Jr.; and Leybourne, Allen E.,3,484,213.
Leyde, Warren L.; Osterhaug, John E.; and Thomasson, Leland T., to Honeywell Inc. Apparatus for normalizing a phase or angle radar information signal to remove amplitude variations. 3,443,123, 5-6-69, Cl. 307-232.
Leyer, Albert, to Metallschlauchfabrik A.G. Arrangement for coupling shafts. 3,434,303, 3-25-69, Cl. 64-6.
Leyer, Gunter, to Kronprinz Aktiengesellschaft. Safety ring for tire-carrying wheels. 3,451,457, 6-24-69, Cl. 152-158.
Leygue, Guy; and Auberger, Jacques, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Feeler device for iron products scarfing. 3,469,830, 9-30-69, Cl. 266-23.
Leyland, Rowland Powell: *See—*
Davies, William John; Leyland, Rowland Powell; and Holmes, Albert George,3,483,630.
Leyssens, Francois Jeanne Charles; and Ghys, Lodewijk Viktor Hendrik Maria, to International Standard Electric Corporation.

Method of manufacturing multicontact plug-in connectors. 3,469,312, 9-30-69, Cl. 29-629.
Leyten, Johannes, to Gebr. Mynhardt C.V. Ergometer. 3,442,131, 5-6-69, Cl. 73-379.
Leyten, Roger: *See—*
De Somer, Pierre; Denys, Pierre; and Leyten, Roger,3,438,859.
Lezak, Edward. Mooring device. 3,429,289, 2-25-69, Cl. 114-230.
Lezak, Edward. Mooring device. 3,430,599, 3-4-69, Cl. 114-230.
Lezak, Edward. Mooring device. 3,430,600, 3-4-69, Cl. 114-230.
Lezan, Georges R. E., to General Electric Company. Electric regudating means having a long memory. 3,436,638, 4-1-69, Cl. 320-1.
Lezan, Georges R. E., to General Electric Company. Generator for amplitude and frequency modulated low-frequency alternating voltages. 3,440,568, 4-22-69, Cl. 332-17.
Lezi, William: *See—*
Packard, Norman M.; Squinto, Leonard O.; and Lezi, William,3,463,057.
L & H Manufacturing Co.: *See—*
Caldwell, William A., 3,435,552.
Lherault, Jean A. D. P.; and Nuckols, David E., to Solaronics, Inc. Tile assembly for radiant gas burners. 3,439,996, 4-22-69, Cl. 431-328.
L'Hermite, Pierre:*See—*
Betoule, Michel; L'Hermite, Pierre; and Petit, Rene,3,465,190.
Betoule, Michel; L'Hermite, Pierre; and Petit, Rene,3,474,276.
L'Hermite, Robert. Constructional element and method of making the same. 3,468,090, 9-23-69, Cl. 52-309.
Lhonore, Pierre: *See—*
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert,3,420,643.
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert,3,457,192.
Li, Chou H. Solid-state device with differentially expanded junction surface. 3,430,109, 2-25-69, Cl. 317-234.
Li, Jorge P.: *See—*
Biel, John H.; Li, Jorge P.; and Stein, Robert George,3,484,446.
Li, Norman N., to Esso Research and Engineering Company. Desalination process. 3,454,489, 7-8-69, Cl. 210-22.
Li, Tao Ping, to Monsanto Company. Cupric chloride-alumina catalyst. 3,461,084, 8-12-69, Cl. 252-441.
Li, Tao Ping: *See—*
Muller, Herman L.; and Li, Tao Ping,3,427,254.
Li, Tingye, to Bell Telephone Laboratories, Incorporated. Reducing noise with dual-mode antenna. 3,461,453, 8-12-69, Cl. 343-100.
Lia, Rudolph F.: *See—*
Clark, Kendall; and Lia, Rudolph F.,3,483,497.
Liaison S.A.: *See—*
Gabris, Tibor, 3,445,408.
Liander, Leonard E., to International Business Machines Corporation. Method for producing an improved die for use with a multi-element punch. 3,477,317, 11-11-69, Cl. 76-107.
Liang, Sou Chu; and Shaw, George, to Cominco Ltd. Zone refining. 3,433,627, 3-18-69, Cl. 75-65.
Liang, Thomas G.: *See—*
Dorf, Richard C.; and Liang, Thomas G.,3,448,362.
Liao, Hsiang-Peng; Smith, Lawrence Alfred, Jr.; and Tuemmler, William B., to FMC Corporation. Conversion of allyl alcohol to glycerol. 3,454,655, 7-8-69, Cl. 260-635.
Liao, Hsiang Peng: *See—*
Stein, Norman; Meyer, Delbert H.; Knobloch, James O.; and Liao, Hsiang Peng,3,484,458.
Liass, Abram Moiseevich; and Borsook, Pavel Afanasievich. Liquid mixes for foundry cores and moulds and method of manufacturing foundry cores and moulds from same. 3,424,600, 1-28-69, Cl. 106-38.35
Liautaud, John N.: *See—*
Liautaud, Philip J.; Liautaud, John N.; and Amundsen, Paul D.,3,436,761.
Liautaud, Philip J.; Liautaud, John N.; and Amundsen, Paul D., to Fendall Company. Side shield construction for spectacles. 3,436,761, 4-8-69, Cl. 2-13.
Liauw, Kei-Liang: *See—*
Sweeney, Richard F.; and Liauw, Kei-Liang,3,420,697.
Liauw, Koei-Liang: *See—*
Etherington, Robert W., Jr.; and Liauw, Koei-Liang,3,476,808.
Sweeney, Richard F.; and Liauw, Koei-Liang,3,446,570.
Libberton, Albert C. Follower advanced commodity dispenser. 3,452,899, 7-1-69, Cl. 221-242.
Libbey-Owens-Ford Company: *See—*
Babcock, Eugene W., 3,440,031.
Janosky, Walter J., 3,472,580.
Leflet, Herbert A., Jr.; and Wampler, David M., 3,457,060.
Long, Bernard, 3,445,213.
Mattimoe, Paul T.; and Elton, William L., 3,468,749.
Mc Cown, William E.; Gladieux, Norman K.; and Dunipace, Donald W., 3,476,539.
Motter, Theodore J., 3,486,918.
Oelke, Waldemar W.; Carson, Frank J.; Badger, Alfred E.; and O'Connell, Thomas B., 3,477,840.
Rahrig, Donald D.; and Ferguson, Charles W., 3,448,547.
Ritter, George F., Jr.; Carson, Frank J.; and Hymore, Frank J., 3,476,540.
Ritter, George F., Jr., 3,476,541.
Ritter, George F., Jr., 3,476,542.
Snow, Richard R., 3,473,908.
Zellers, James T., Jr., 3,436,200.
Libbey-Owens-Ford Glass Company: *See—*
Berning, Peter H.; and Small, Edward A., Jr., 3,487,024.
Bracken, Aubrey T.; Luhrs, Millen E.; and Green, Charles F., 3,459,413.
Ferguson, Charles W.; and Welker, Robert H., 3,461,615.
Grosskopf, John W., Jr.; Thayer, Arthur G.; and Welker, Robert H., 3,461,624.
Kirkman, William, 3,421,875.
Long, Bernard, 3,485,614.
Mambourg, James E.; and McCown, William E., 3,458,302.
Mattimoe, Paul T.; and Conner, Harry E., 3,429,006.
McCown, William E.; Maltby, Robert E., Jr.; and Allen, Carey M., 3,479,172.
Miller, Alfred H.; Perry, Glenn; and Wheat, Lawrence C., 3,421,180.
O'Connell, Thomas B.; and Herrington, Richard A., 3,454,389.
Rahrig, Donald D.; Ritter, George F., Jr.; and Carson, Frank J., 3,485,615.
Ritter, George F., Jr., 3,454,388.
Ritter, George F., Jr., 3,485,618.
Ross, Robert E., 3,431,095.
Stickel, Allwin; and Hagedorn, Floyd T., 3,459,526.
Swillinger, Francis L., 3,428,444.
Wampler, David M.; and Leflet, Herbert A., Jr., 3,433,616.
Zellers, James T., Jr., 3,469,964.
Libby, Arthur A., Jr. Reflective panels for use with lawn furniture and the like. 3,463,440, 8-26-69, Cl. 248-487.
Libby, Carl F., to Riordan, John D., and Libby, Gertrude C., trustees of the Libby Family Trust. Pattern control mechanism for looms. 3,480,047, 11-25-69, Cl. 139-319.
Libby, Charles C.: *See—*
McMaster, Robert C.; Libby, Charles C.; and Minchenko, Hildegard M.,3,475,628.
Libby, Clarence R., to Nash Engineering Company. Housing for a sealed rotating shaft. 3,441,324, 4-29-69, Cl. 308-36.1
Libby, Edward L.: *See—*
Holes, William W.; and Libby, Edward L.,3,456,303.
Holes, William W.; and Libby, Edward L.,3,467,479.
Holes, William W.; and Libby, Edward L.,3,485,564.
Libby Family Trust: *See—*
Libby, Carl F., 3,480,047.
Libby, Gertrude C.: *See—*
Libby, Carl F., 3,480,047.
Libby, Louis H.; and Libby, Minnie G., to Lumin Chemical Company. Novel amido derivatives useful as aids in detergent compositions. 3,424,771, 1-28-69, Cl. 26-404.5
Libby, Mc Neill & Libby: *See—*
Weber, Alan E.; and Gettys, Donald C., 3,454,064.
Libby, McNeill & Libby: *See—*
Hawley, Robert L., 3,469,991.
Mettler, Albert J., Jr., 3,456,418.
Libby, Minnie G.: *See—*
Libby, Louis H.; and Libby, Minnie G.,3,424,771.
Libby, Richard L.: *See—*
Aschenbrenner, Claus M.; Hsieh, Hsueh Y.; and Libby, Richard L.,3,438,050.
Libby, Ross C., to Ohio State University, The Board of Trustees of the. High speed, wide frequency range feedback circuit. 3,434,074, 3-18-69, Cl. 331-183.
Libby, Stan R. Odor exhaust unit. 3,452,668, 7-1-69, Cl. 98-43.
Libby, Willard F., to McDonnell Douglas Corporation. Radiation protection system and apparatus. 3,465,153, 9-2-69, Cl. 250-108.
Libeer, Marcel Jan: *See—*
De Poorter, Henri; and Libeer, Marcel Jan,3,438,774.
Depoorter, Henri; and Libeer, Marcel Jan,3,455,684.
Depoorter, Henri; and Libeer, Marcel Jan,3,476,558.
Libeer, Marcel Jan; and Depoorter, Henri, to Gevaert Photo-Producten N.V. Photographic material sensitized with a trimethine dye containing a benzoyl substituted benzimidazole nucleus. 3,468,661, 9-23-69, Cl. 96-1.7
Liben, William, to United States of America, Navy. Method and apparatus for interconnecting microelectronic circuit wafers. 3,447,038, 5-27-69, Cl. 317-101.
Libengood, George B.; and Bowler, William W., to Firestone Tire & Rubber Company, The. Process for coagulating latices of copolymers and terpolymers of conjugated dienes and carboxylic acids. 3,483,174, 12-9-69, Cl. 260-83.5
Liberatore, Michael Angelo: *See—*
Siegele, Frederick Herman; Ondera, Emil Vincent; and Liberatore, Michael Angelo,3,434,970.
Libermann, Leonard N.; and Lai, Stanley H., to Thermal Industries of Florida, Inc. Method and apparatus for detecting gaseous impurities. 3,460,125, 8-5-69, Cl. 340-242.
Liberty Combustion Corporation: *See—*
Potts, William F., 3,425,780.

Potts, William F.; and Duval, Francois, 3,447,880.
Potts, William F.; and Duval, Francois, 3,470,386.
Liberty Fabrics of New York, Inc.: *See—*
Gottlieb, Michael, 3,469,583.
Gottlieb, Michael, 3,470,878.
Libman, Max L.: *See—*
Rabinow, Jacob, 3,450,081.
Libman, Max L. Flexible magnetic disc memory. 3,471,843, 10-7-69, Cl. 340-174.1
Librande, Samuel M., to Simpson, Mary Phyllis, mesne. Protective brassiere. 3,478,739, 11-18-69, Cl. 128-132.
Licata, Joseph P.; and Tucker, Frederick T., to General Motors Corporation. Headlamp actuator. 3,449,559, 6-10-69, Cl. 240-7.1
Licata, Joseph: *See—*
Spira, Joel S.; and Licata, Joseph,3,422,309.
Liccardi, Thomas V.; Steen, Stephen N.; and Gelb, Edward J. Metallic sol lubricant for a bearing or plug valve. 3,483,949, 12-16-69, Cl. 184-1.
Licencia Talalmanyoka Ertekesito: *See—*
Mihaly, Sandor, 3,470,627.
Licencia Talalmanyokat Ertekesito Vallalat: *See—*
Gaspar, Istvan; and Schnitta, Antal, 3,451,975.
Zathureczky, Arpad; and Egyedi, Andras, 3,467,364.
Licentia Patent-Verwaltungs-G.m.b.H.: *See—*
Broszat, Gottfried, 3,479,629.
Carl, Heinz; and Stumpe, August Christian, 3,426,277.
Corleis, Horst; Bernotat, Rainer; and Roessger, Edgar, 3,466,923.
Eggemann, Wilhelm; Weghaupt, Erich; and Lambrecht, Dietrich, 3,469,127.
Ehinger, Herbert; and Pikorz, Wolfgang, 3,473,959.
Feldman, Hans-Helmut; and Sanetra, Erwin, 3,483,362.
Feldmann, Hans-Helmut, 3,480,837.
Fleckenstein, Hans, 3,482,125.
Forster, Johannes; and Golde, Ernst, 3,439,254.
Frohmuller, Klaus; and Helms, Dieter, 3,483,407.
Frohmuller, Klaus; and Schenker, Hans-Joachim, 3,483,408.
Gerlach, Willi, 3,428,874.
Heider, Helmut; and Looss, Helmut, 3,443,476.
Hermes, Heinz; and Volkner, Wolfgang, 3,453,415.
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner, 3,447,066.
Hopp, Helmut; and Zelle, Edgar, 3,440,594.
Janssen, Hans-Joachim; and Schutte, Reinhold, 3,434,723.
Janssen, Hans-Joachim, 3,459,977.
Kalkner, Bernhard; and Becker, Hans, 3,461,308.
Koppelmann, Floris, 3,444,450.
Koppelmann, Floris, 3,449,653.
Koppelmann, Floris; Hausler, Michael; and Knuth, Detlef, 3,450,983.
Koppelmann, Floris, 3,461,366.
Kornbichler, Heinz; Ullrich, Walter; Mainka, Alfred; and Lohse, Karl-Heinz, 3,467,578.
Magner, Richard; and Geppert, Albrecht, 3,476,985.
Martini, Paul; and Nocon, Theodor, 3,473,475.
Moczala, Helmut; and Otzipka, Willi, 3,452,262.
Moczala, Helmut, 3,456,174.
Obrowski, Walter; Bornig, Karl-Heinz; and Schrufer, Elmar, 3,444,373.
Otzipka, Willi; and Mally, Joachim, 3,476,997.
Petzold, Dieter, 3,443,071.
Schimmelpfennig, Peter, 3,453,481.
Schimmelpfennig, Peter, 3,468,218.
Stumpe, August Christian; Seelig, Anton; and Donges, Hans, 3,476,979.
Trautzsch, Gottfried; and Bruggen, Kurt, 3,482,806.
Trucks, Erich; Frohmuller, Klaus; and Helms, Dieter, 3,459,978.
Volkner, Wolfgang; Sonksen, Arno; and Schultz, Herbert, 3,420,476.
Walter, Conrad; and Eberwein, Siegfried, 3,480,347.
Wanke, Karl, 3,439,202.
Winterhoff, Hrst, 3,482,158.
Zelle, Edgar, 3,440,592.
Lich, Richard L., to General Steel Industries, Inc. Railway car and supporting truck. 3,427,993, 2-18-69, Cl. 105-199.
Lich, Richard L., to General Steel Industries, Inc. Resiliently centered railway locomotive truck. 3,447,483, 6-3-69, Cl. 105-136.
Lich, Richard L., to General Steel Industries, Inc. Resiliently centered railway motor truck. 3,451,356, 6-24-69, Cl. 105-136.
Lich, Richard L., to General Steel Industries, Inc. Resiliently centered railway power truck. 3,452,684, 7-1-69, Cl. 105-175.
Lich, Richard L., to General Steel Industries, Inc. Electric railway truck with intergeared motors. 3,455,251, 7-15-69, Cl. 105-135.
Lich, Richard L., to General Steel Industries, Inc. Railway truck roll stabilizer and draft link. 3,455,252, 7-15-69, Cl. 105-199.
Lichodziejewski, Wieslaw L.: *See—*
Johnson, Bernard A.; Adamski, Max, Jr.; and Lichodziejewski, Wieslaw L.,3,457,791.
Lichowsby, Abraham, to RCA Corporation. Data storage apparatus including laminated annuli transducer supports concentric with the data storage means. 3,478,339, 11-11-69, Cl. 340-174.1
Lichowsky, Abraham, to RCA Corporation. Random access card memory system. 3,460,120, 8-5-69, Cl. 340-174.1
Lichstein, Bernard M.: *See—*
Fein, Marvin M.; Paustian, John E.; and Lichstein, Bernard M.,3,483,258.
Lichstein, Bernard M.; and Woolf, Cyril, to Allied Chemical Corporation. Fluoroalkyl-substituted esters, diesters, and polymers therefrom. 3,438,946, 4-15-69, Cl. 260-75.
Lichstein, Bernard M.; and Woolf, Cyril, to Allied Chemical Corporation. Aldehydes and alcohols prepared therefrom. 3,440,285, 4-22-69, Cl. 260-602.
Lichstein, Bernard M.; and Woolf, Cyril, to Allied Chemical Corporation. Novel perhaloalkyl-substituted unsaturated fluoroalkanes. 3,472,905, 10-14-69, Cl. 260-653.3
Lichte, Albert, to Schloemann Aktiengesellschaft. Cleaning, particularly de-scaling, of metal articles. 3,424,614, 1-28-69, Cl. 134-2.
Lichte, Carl L., to Dresser Industries, Inc. Seal arrangement between relatively rotatable members. 3,449,024, 6-10-69, Cl. 308-8.2
Lichtenbaumer, Hans-Gunther: *See—*
Zywietz, Walter; Gantke, Franz; Seiz, Rudolf; Lichtenbaumer, Hans-Gunther; and Neeff, Joachim,3,438,211.
Lichtenberger, Horst W.; and Maurer, David P., to Union Carbide Corporation. Intransit liquefied gas refrigeration system. 3,421,336, 1-14-69, Cl. 62-45.
Lichtenberger, Joseph A.; and Brandts, Theodorus G., to Consolidated Paper (Bahamas) Limited. Apparatus for applying dry powdered additives to paper on the forming wire using electrostatic attraction. 3,461,032, 8-12-69, Cl. 162-266.
Lichtenberger, William J. Animal climbing structure. 3,479,991, 11-25-69, Cl. 119-1.
Lichtenstein, Joseph Edgar. Microphone attachments for musical instruments. 3,421,401, 1-14-69, Cl. 84-453.
Lichtenstein, Le Roy: *See—*
Ball, Glenn A.; Lichtenstein, Le Roy; and Webber, Philip S.,3,480,122.
Lichtenstern, Benjamin, to Etablissement Salgad. Multiportion barrel for a launcher of fin-stabilized projectiles. 3,486,411, 12-30-69, Cl. 89-16.
Lichtenwalter, Myrl; and Burns, Simon Pierce, to Jefferson Chemical Company, Inc. Removal of methyl formate from propylene oxide by treatment with calcium hydroxide. 3,477,919, 11-11-69, Cl. 203-36.
Lichtenwalter, Myrl; and Cour, Thomas H., to Jefferson Chemical Company, Inc. Controlled production of ethylene amines. 3,484,488, 12-16-69, Cl. 260-585.
Lichti, Robert D., 23% each to Webster, Walter A., Goble, Harold G., and Campbell, Robert F. Stabilizing and drive means for a parking apparatus. 3,424,321, 1-28-69, Cl. 214-16.1
Lichti, Robert W.: *See—*
Campbell, Trevor G.; Lichti, Robert W.; and Liess, Richard K.,3,452,458.
Lichti, Walter. Tractor control device. 3,480,294, 11-25-69, Cl. 280-405.
Lichtneckert, Istvan Janos Antal: *See—*
Lundgren, Claes Erik Gunnar; and Lichtneckert, Istvan Janos Antal,3,451,674.
Licis, Osvalds F., to Philip Morris Incorporated. Treatment of reconstituted tobacco sheet. 3,431,915, 3-11-69, Cl. 131-140.
Licis, Osvalds F., to Philip Morris Incorporated. Reconstituted tobacco sheet. 3,477,440, 11-11-69, Cl. 131-14.
Licitis, Gunars: *See—*
Disko, Harry; Glass, Marvin I.; and Licitis, Gunars,3,486,756.
Glass, Marvin I.; and Licitis, Gunars,3,432,230.
Glass, Marvin I.; and Licitis, Gunars,3,484,160.
Glass, Marvin I.; Giraud, Denise C.; and Licitis, Gunars,3,437,338.
Glass, Marvin I.; Licitis, Gunars; and Aleksa, Peter,3,461,604.
Lickeliter, Robert P.; Abbott, Earl; and Reeves, John F. Pneumatic press. 3,478,678, 11-18-69, Cl. 100-49.
Lickliter, Robert P.; Abbott, Earl; and Reeves, John F. Pneumatic press. 3,450,037, 6-17-69, Cl. 100-256.
Lickliter, Robert P.; Abbott, Earl; and Reeves, John F., to Flangeklamp Corporation, mesne. Hold-down for ceiling access panels. 3,481,088, 12-2-69, Cl. 52-127.
Lickman, David Austin: *See—*
Herniman, Peter Douglas; and Lickman, David Austin,3,434,472.
Lickok, Daniel J.; and Maxwell, George C., to Armstrong Cork Company. Lubrication system for a parison blank. 3,480,422, 11-25-69, Cl. 65-169.
Lickus, A. Gregory: *See—*
Skala, Hertha; Broughton, Donald B.; De Rosset, Armand J.; and Lickus, A. Gregory,3,437,601.
Liddall, Jack Anthony, 1/2 to Kashino, Junn S. Keyboard operated electrical musical instrument. 3,427,911, 2-18-69, Cl. 84-1.14
Liddell, Donald W.: *See—*
Wong, Howard F.; Liddell, Donald W.; and Vollmer, William F., Jr.,3,421,151.
Liddicoat, Charles A. Electrical capacitors. 3,484,664, 12-16-69, Cl. 317-258.

Liddle, Stephen W.; and Bush, Clarence E., to Radio Corporation of America. Endless loop tape cartridge. 3,443,767, 5-13-69, Cl. 242-55.19

Liddle, Stephen W.; and Hawkins, Charles G., to Radio Corporation of America. Endless tape cartridge. 3,443,768, 5-13-69, Cl. 242-55.19

Lide, Edward N.: *See—*
Holt, Arthur P., Jr.; and Lide, Edward N.,3,475,686.

Lidgate, John B.: *See—*
Loraine, Nevison G.; and Lidgate, John B.,3,468,838.

LiDonnici, Kenneth Michael; and Post, Gerald, to Ing. C., Olivetti, & C., S.p.A., mesne. Movable shelf support mechanism. 3,456,845, 7-22-69, Cl. 222-83.5

Lidoski, Joseph F.; and Masi, James V., to Mid-Continent Manufacturing Co. Contact connector assembly for electrical devices having thin-film electrodes. 3,474,379, 10-21-69, Cl. 339-17.

Lidsky, Julius, to Ronel Corporation. Pronged fasteners for structural members. 3,479,919, 11-25-69, Cl. 85-13.

Lie, Finn. Support unit for chair. 3,455,601, 7-15-69, Cl. 297-301.

Lie, Finn. Tilting chair construction. 3,480,249, 11-25-69, Cl. 248-373.

Liebe, Holm; Heider, Johann; and Hatzfeld, August, to Messer Griesheim G.m.b.H. Welding torch for the electric arc welding under protective gas. 3,471,676, 10-7-69, Cl. 219-75.

Liebe, Werner: *See—*
von Rintelen, Harald; Liebe, Werner; and Krafft, Werner,3,432,298.

Liebel, Bruce W.; Edgington, Howard C.; and Meredith, Philip J., to United States of America, Air Force. System for measuring the impedance and phase of a solid propellant including a constant current source. 3,479,585, 11-18-69, Cl. 324-57.

Liebel, Henry L., to Paper Extrusions Co. Resilient angle member. 3,433,354, 3-18-69, Cl. 206-46.

Liebel-Flarsheim Company: *See—*
Bross, William T., 3,458,800.

Lieber, Sidney U.; and Hay, William D., to Unit Process Assemblies, Inc. Workpiece support and mask assemblies for radiation backscatter measuring instruments. 3,421,000, 1-7-69, Cl. 250-105.

Lieber, Sidney U.; and Hay, William D., to Unit Process Assemblies, Inc. Workpiece support and mask assemblies for radiation backscatter measuring instruments. 3,456,115, 7-15-69, Cl. 250-105.

Liebergott, Norman; and Yorston, Frederic H., to Pulp and Paper Research Institute of Canada. Extraction of fibrous cellulosic material with ammonia following treatment with chlorine, chlorine dioxide or other reagents. 3,472,731, 10-14-69, Cl. 162-63.

Lieberman, George; Palmer, Milton; and Prussin, Samuel B., to Dart Industries Inc. Composition for application to hair. 3,479,427, 11-18-69, Cl. 424-47.

Lieberman, Jerry. Play maze. 3,485,494, 12-23-69, Cl. 272-60.

Lieberman, Julian: *See—*
Pereida, Anita; and Lieberman, Julian,3,438,547.

Liebermann, John, to Ranco Incorporated. Humidity control apparatus. 3,454,732, 7-8-69, Cl. 200-61.06

Liebert, Karl-Heinz, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Power steering system. 3,470,758, 10-7-69, Cl. 74-388.

Liebl, Helmut J., to Applied Research Laboratories, Inc. Double focussing mass spectrometer including a wedge-shaped magnetic sector field. 3,445,650, 5-20-69, Cl. 250-41.9

Liebl, Helmut J., to Applied Research Laboratories, Inc. Method of operating an ion microprobe using secondary elections. 3,479,505, 11-18-69, Cl. 250-49.5

Liebler, Kenneth A.: *See—*
Blanding, Leonard C.; Meyer, Hans J.; and Liebler, Kenneth A.,3,433,538.

Lieblich, Irving, to Hogan Faximile Corporation. Electrolytic recording medium. 3,444,055, 5-13-69, Cl. 204-2.

Liebman, Alex. Greeting card. 3,484,971, 12-23-69, Cl. 40-124.1

Liebman, Warren S.; Carson, Don B.; and Dolejs, Charles A., to Universal Oil Products Company. Multiport rotary disc valve with liner protection means. 3,422,848, 1-21-69, Cl. 137-625.15

Liebowitz, Benjamin; and Cohen, Morris U., to Endsdown Company Inc. Molded garment. 3,434,478, 3-25-69, Cl. 128-463.

Liebowitz, Marvin: *See—*
Compa, Russell Edward; and Liebowitz, Marvin,3,485,905.

Liebrandt, Karl: *See—*
Zwingenberger, Arno; and Hagel, Adolf, 3,447,344.

Liebscher, Anton: *See—*
Szerenyl, Andrew; and Liebscher, Anton,3,426,120.

Liebscher, Arthur. Three beam color television deflection system. 3,431,456, 3-4-69, Cl. 315-13.

Liebscher, Arthur. Compensation of coaxial cables. 3,452,429, 7-1-69, Cl. 29-593.

Liebscher, Roland; and Rother, Arnulf, to Siemens Aktiengesellschaft. Arrangement for wide-band coupling of the spiral line of a travelling-field spiral tube to a coaxial line. 3,421,120, 1-7-69, Cl. 333-31.

Liechti, Peter: *See—*
Guglielmetti, Leonardo; Maeder, Erwin; Liechti, Peter; and Siegrist, Adolf Emil,3,449,330.
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil,3,429,877.
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil,3,455,837.

Liechti, Peter; and Roth, Willy, to Ciba Limited. Process for the production of nitrohydroxyaryl compounds. 3,468,963, 9-23-69, Cl. 260-620.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo,3,444,179.

Liedel, Douglas D., to Hall, C. M., Lamp Company. Remote controlled mirror. 3,440,898, 4-29-69, Cl. 74-501.

Liedel, Douglas D., to Hall, C. M., Lamp Company. Remote controlled motion transmitting device. 3,444,754, 5-20-69, Cl. 74-501.

Liedel, Douglas D., to Hall, C. M., Lamp Company. Remote controller. 3,473,823, 10-21-69, Cl. 280-150.

Liedel, Douglas D., to Hall, C. M., Lamp Company. Remote control device utilizing motion amplification. 3,474,686, 10-28-69, Cl. 74-501.

Lieder, Gaylerd M.: *See—*
Ayres, Richard H.; and Lieder, Gaylerd M.,3,425,183.
Ayres, Richard H.; and Lieder, Gaylerd M.,3,469,367.

Liederbach, William H.: *See—*
Degenkolb, Robert S.; and Liederbach, William H.,3,434,877.

Liederman, David: *See—*
Glass, John R.; and Liederman, David,3,432,403.

Lieding, Calvin A.: *See—*
Yates, Harry D.; and Lieding, Calvin A.,3,440,434.

Liedtke, Kurt: *See—*
Focke, Heinz; and Liedtke, Kurt,3,439,473.

Lieffring, Gordon V., to Robo-Wash, Inc. Actuator mechanism for vehicle washing controls. 3,459,910, 8-5-69, Cl. 200-61.41

Lieffring, Gordon V.; Begey, Kenneth P.; and Widner, James E., to Robo-Wash, Inc. Apparatus for treating vehicle wash water. 3,464,631, 9-2-69, Cl. 239-135.

Lien, Erling L., to Varian Associates. Permanent magnet focused linear beam tube employing a compensating magnet structure between the main magnet and thy beam collector. 3,450,930, 6-17-69, Cl. 315-3.5

Lien, Erling L.; and Leidigh, William I, to Varian Associates. Klystron amplifier employing helical distributed field buncher resonators and a coupled cavity extended interaction output resonator. 3,483,420, 12-9-69, Cl. 315-5.39

Lien, Erling L.; and Leidigh, William J., to Varian Associates. Linear beam tube having a beam collector cooled by radiation through an infrared window. 3,448,325, 6-3-69, Cl. 315-3.5

Lien, Neil C.: *See—*
Baker, John Gordon; and Lien, Neil C.,3,473,573.
Baker, John Gordon; and Lien, Neil C.,3,482,522.

Lienemann, Darlo E.; and Stufflebeam, John F., to International Harvester Company. Auger centering device. 3,430,822, 3-4-69, Cl. 222-412.

Lienemann, Darlo E.: *See—*
Walker, John A.; Henry, Daniel; and Lienemann, Darlo E.,3,483,755.

Liepmann, Wolfgang H.: *See—*
Regunberg, Jerome; and Liepmann, Wolfgang H.,3,479,451.

Lierley, John T.; and Clissett, Kenneth E., to Hughes Aircraft Company. High power variable inductor. 3,444,494, 5-13-69, Cl. 336-62.

Lierse, Kurt F.; and Timura, James A., to TRW Inc. Method of making gear forging apparatus. 3,429,172, 2-25-69, Cl. 72-344.

Lies, Thomas Andrew, to American Cyanamid Company. 2-Imino-4-alkylidene-1,3-dithiolanes and their preparation. 3,449,365, 6-10-69, Cl. 260-327.

Lies, Thomas Andrew, to American Cyanamid Company. Process for the preparation of 2-amino-4,5- substituted-1,3-dithioles and the acid addition salts thereof. 3,449,366, 6-10-69, Cl. 260-327.

Liescroart, Louis Constant Joseph; and Marlot, Pierre Louis Michel. Devices for the continuous manufacture of tiling sheets. 3,434,909, 3-25-69, Cl. 156-552.

Liesenfeld, Emil. Key for opening of cans or the like equipped with a tearing tongue. 3,439,832, 4-22-69, Cl. 220-52.

Lieser, Ernst; Simon, Horst; and Mueller, Edwin, to Eastman Kodak Company. Easily loaded camera with open ended spool. 3,420,154, 1-7-69, Cl. 95-31.

Lieser, Ernst; Simon, Horst; Mueller, Edwin; and Steisslinger, Kurt, to Eastman Kodak Company. Photographic camera. 3,433,143, 3-18-69, Cl. 95-31.

Lieser, Ernst; Steisslinger, Kurt; and Magnus, Oswin, to Eastman Kodak Company. Roll film photographic camera with film transport mechanism. 3,470,801, 10-7-69, Cl. 95-31.

Lieser, Herbert: *See—*
Feld, Manfred; Lieser, Herbert; Lincks, Hans; and Stockert, Helmut,3,446,463.

Lieser, Zeev, to RCA Corporation. Condition indicator for appliance. 3,480,940, 11-25-69, Cl. 340-253.

Lieske, Manfred: *See—*
Olsen, Willi; Ochla, Siegfried; and Lieske, Manfred,3,440,381.
Liess, Richard K.: *See—*
Campbell, Trevor G.; Lichti, Robert W.; and Liess, Richard K.,3,452,458.
Eftefield, Larry G.; Liess, Richard K.; Miller, Lawrence J.; and Wagner, Ernest W.,3,423,853.
Lievens, James L.: *See—*
Gustafson, Wilbur E.; Chase, Walter M.; Lievens, James L.; and Campbell, James D.,3,454,949.
Lif-O-Gen, Inc.: *See—*
Burgess, Lester D., 3,474,816.
Lifeguard Watch: *See—*
Herman, Albert Dale; and Marx, Herbert Zeppo, 3,473,526.
Lifschitz, Gabriel Zwy: *See—*
Leersnijder, Carolus Pieter; and Lifschitz, Gabriel Zwy,3,473,111.
Liftag Hub-, Gleit- und Vorspanntechnik AG.: *See—*
Baehr, Hans-Dieter, 3,482,742.
Ligenza, Joseph R.; and Povilonis, Edward I., to Bell Telephone Laboratories, Incorporated. Apparatus for plasma processing. 3,476,971, 11-4-69, Cl. 313-231.
Ligett, Waldo B., to Ethyl Corporation. Dibutyltin diacetate as a fungicidal agent. 3,435,118, 3-25-69, Cl. 424-288.
Liggett & Myers Tobacco Company: *See—*
Till, Derek Elliott; Levins, Philip Leo; and Koch, David Hamilton, 3,434,479.
Liggett, James J., 1/2 to Sternberg, Erving S. Recovery of protein and oil from oil-containing seeds by treatments with a saturated solution of calcium hydroxide. 3,476,739, 11-4-69, Cl. 260-123.5
Light & Power Utilities Corp.: *See—*
Pou, Dudley M., 3,428,737.
Light, Allen E., to Arco Corporation. Engine control system and torque meter therefor. 3,443,376, 5-13-69, Cl. 60-13.
Light, Charles Ellsworth: *See—*
Gruber, Arnold Harvey; Moore, Sewell Trezevant; and Light, Charles Ellsworth,3,455,643.
Light, Emma K.: *See—*
Gruber, Arnold Harvey; Moore, Sewell Trezevant; and Light, Charles Ellsworth,3,455,643.
Light, Herbert Julius; and Osborne, Robert Jarvis. Reconstituted tobacco manufacture. 3,464,422, 9-2-69, Cl. 131-140.
Lightbody, Eric William; and Abram, Leo, to Associated Electrical Industries Limited. Polyphase electrical couplings. 3,483,396, 12-9-69, Cl. 307-147.
Lightbowne, William M., to United States of America, Army, mesne. Artificial dielectric material for use in microwave optics. 3,430,248, 2-25-69, Cl. 343-911.
Lightcap, Edwin T., to Caldwell Research Corporation, mesne. Linear velocity measuring device for ram pistons. 3,421,080, 1-7-69, Cl. 324-70.
Lightfoot, George James, to Cosmodyne Corporation, The. Differential pressure poppet valve. 3,446,156, 5-27-69, Cl. 103-228.
Lightfoot, Ralph B., to United Aircraft Corporation. Rotor load proportioner for a compound helicopter. 3,464,651, 9-2-69, Cl. 244-17.13
Lightner, Gene E., to Monsanto Company. Electronic semiconductor thermometer. 3,440,883, 4-29-69, Cl. 73-362.
Lightner, Gene E., to Monsanto Company. High impedance fluid amplifier. 3,455,325, 7-15-69, Cl. 137-253.
Lightner, Gene E., to Monsanto Company. Fluid triode. 3,455,326, 7-15-69, Cl. 137-253.
Lightner, Gene E.; and Highfill, John F., to Monsanto Company. Alarm first-out circuitry. 3,474,443, 10-21-69, Cl. 340-415.
Lightner, Gene E.: *See—*
Smith, George E.; Lightner, Gene E.; and Highfill, John F.,3,456,251.
Lightner, Linn Stephen; Bennett, Benny Morris; and Asick, John Carl, to AMP Incorporated. Laminated housing for electrical contacts or the like. 3,439,314, 4-15-69, Cl. 339-208.
Lightner, Robert B., to Reynolds Metals Company. Strip conductor coil construction and method and apparatus for making the same or the like. 3,474,370, 10-21-69, Cl. 336-192.
Lightner, Robert B.; and Whiteman, Benton A., to Reynolds Metals Company. Apparatus for and method of winding material means to form coil means. 3,438,124, 4-15-69, Cl. 29-605.
Lightner, Robert B.; and Whiteman, Benton A., to Reynolds Metals Company. Apparatus for and method of making a strip conductor coil construction. 3,474,529, 10-28-69, Cl. 29-605.
Lightner, Robert B.: *See—*
Lewis, Thomas E.; and Lightner, Robert B.,3,420,429.
Lightning Fasteners Limited: *See—*
Cane, Nicholas William; and Rushton, William, 3,446,009.
Swainson, Eric, 3,430,304.
Lighty, Paul E.: *See—*
Shanefield, Daniel J.; Battle, James H.; and Lighty, Paul E.,3,448,425.
Ligne, Marie-Joseph F. L., to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Releasable connecting device. 3,444,773, 5-20-69, Cl. 85-9.
Lignosol Chemicals Limited: *See—*
Benko, Julius, 3,483,127.
Ligon, Elmer R., to Dickey, W. S., Clay Manufacturing Company. Pipe coupling lamp. 3,424,482, 1-28-69, Cl. 285-230.
Ligon, Elmer R.; De Gasperi, Frank E.; and Reed, Norman D., 1/2 to Dickey, W. S., Clay Manufacturing Company, and 1/2 to Clow Corporation. Ceramic molding apparatus. 3,454,997, 7-15-69, Cl. 25-30.
Ligon, Elmer R.; and Medved, Thomas M., to Dickey, W. S., Clay Manufacturing Company. Pipe joint of polyurethane. 3,484,517, 12-16-69, Cl. 264-259.
Ligon, James T.: *See—*
Kovacs, Roy F.; Lang, David L.; and Ligon, James T.,3,446,454.
Preston, Marvin W.; and Ligon, James T.,3,481,009.
Ligot, Jean Denis Bernard: *See—*
Lenoir, Maurice Auguste Jacques; and Ligot, Jean Denis Bernard,3,457,301.
Liguori, Stephen A., to Decision Systems Incorporated. Projection system. 3,472,587, 10-14-69, Cl. 353-35.
Lihit Industrial Co., Ltd.: *See—*
Tanaka, Norihito, 3,472,101.
Likhachev, Jury Nikolaevich; and Molchkov, Felix Ivanovich. Device for packing ferromagnetic pieces. 3,445,987, 5-27-69, Cl. 53-166.
Liles, Clarence E., to White Motor Corporation. Intake control for multiple piston pump. 3,434,428, 3-25-69, Cl. 103-40.
Lilienstern, Vera D. Retractable hair doll. 3,477,170, 11-11-69, Cl. 46-135.
Lilienthal, Bernard: *See—*
Gagolski, Julian; and Lilienthal, Bernard,3,471,613.
Lilja, Goran: *See—*
Andersson, Nils Eric; and Lilja, Goran,3,470,405.
Lilja, John Allan; and Ljungholm, Ake Eskil, to Aktiebolaget Svenska Kullagerfabriken. Means for counterbalancing the acceleration forces in rapidly oscillating machine members especially doffer combs. 3,471,902, 10-14-69, Cl. 19-106.
Lilja, Kaj Anders: *See—*
Svensson, Sten-Eric; and Lilja, Kaj Anders,3,444,758.
Lilja, Sten A.: *See—*
Keenan, Julian J.; Lilja, Sten A.; and Kramos, Charles B.,3,465,419.
Liljeberg, Bert. Wave filter with lossy inductors and capacitors. 3,464,034, 8-26-69, Cl. 333-70.
Liljegren, Jack G.; Schaal, Wayne G.; and Schubert, Lawrence F., to Reserve Mining Company. Control apparatus. 3,480,212, 11-25-69, Cl. 241-34.
Liljegren, Johan Ragnar. Methods of separating inorganic impurities from sewage and of making a soil improving composition from the impurities separated. 3,476,683, 11-4-69, Cl. 210-8.
Liljegren, Johan Ragnar. Methods of improving and safeguarding the function of biologically operating purification plants. 3,487,014, 12-30-69, Cl. 210-4.
Liljeholmens Stearinfabriks AB.: *See—*
Bjorck, Sverker R. F. Y., 3,453,686.
Liljendahl, Sven Algot Joel. Method of purifying waste liquid from water closets and other sanitary installations. 3,477,949, 11-11-69, Cl. 210-48.
Liljendahl, Sven Algot Joel. Discharge valve particularly for water closets. 3,482,267, 12-9-69, Cl. 4-52.
Lilker, William M., to Lockheed Aircraft Corporation. Method for plating thin titanium films. 3,427,197, 2-11-69, Cl. 117-213.
Lill, Etchison, G.; and Bandy, William J., Jr., to Sunbeam Corporation. Hedge trimmer. 3,422,531, 1-21-69, Cl. 30-210.
Lill, Melvin H.; and Ellege, Weldon B., to FMC Corporation. Grinding device with workpiece locating mechanism. 3,461,618, 8-19-69, Cl. 51-124.
Lillberg, John W.: *See—*
Wilcox, Ernest W.; and Lillberg, John W.,3,480,307.
Lillehoj, Eivind B.: *See—*
Ciegler, Alex; and Lillehoj, Eivind B.,3,428,458.
Lilley, Melvin R., to Ferguson Manufacturing Company. Windrowing fork arrangement for peanut digger. 3,454,100, 7-8-69, Cl. 171-116.
Lillie, Charles D. Work holding and driving devices. 3,459,419, 8-5-69, Cl. 269-267.
Lillie, Gordon E., to Bryant Chucking Grinder Co. Machine tool feeding mechanism. 3,451,176, 6-24-69, Cl. 51-165.
Lilligren, Robert W.; and Miller, John Clifton. Surgical bandage, constrictive device, and inflatable means. 3,454,010, 7-8-69, Cl. 128-327.
Lilliston Implement Company: *See—*
Whitesides, Jack C., 3,469,634.
Lilly, Eli, and Company: *See—*
Baker, Robert S., 3,485,718.
Bromer, William W.; Hoehn, Marvin M.; and McGuire, James M., 3,467,751.
Brown, Carter N., 3,431,302.
Caltrider, Paul G.; and Hayes, Harold B., 3,433,711.
Cannon, William N.; and Gerzon, Koert, 3,420,654.
Cannon, William N., 3,428,736.
Cannon, William N., 3,435,119.

Cassady, Donald R.; Dillard, Robert D.; and Easton, Nelson R., 3,436,402.
Chamberlin, James W., 3,467,690.
Constantino, Nicholas B., 3,481,092.
Dillard, Robert D.; and Easton, Nelson R., 3,452,015.
Farkad, Eugene, 3,445,488.
Farkas, Eugene, 3,484,464.
Flynn, Edwin H., 3,449,338.
Gerzon, Koert; and Krumkalsn, Eriks V., 3,470,210.
Gorman, Marvin; and Kornfeld, Edmund C., 3,422,112.
Gorman, Marvin; Haney, Michael E., Jr.; Lively, David H.; and Davenport, James D., 3,476,648.
Hargrove, William W., 3,481,920.
Hennion, George F., 3,481,982.
Howe, Robert H. L., 3,458,435.
Immermann, Milton; Vanderhyde, Harold J.; and Woods, George H., 3,454,152.
Lunn, William H. W.; and Farkas, Eugene, 3,471,528.
McCormick, Mack H., 3,467,654.
Mills, Jack; and Pfeifer, William, 3,422,153.
Mills, Jack, 3,445,517.
Morin, Robert B.; and Jackson, Billy G., 3,466,275.
Perelman, Melvin; Jones, Reuben G.; and Mizsak, Stephen A., 3,446,813.
Pohland, Albert, 3,449,114.
Probst, Gerald W.; Hoehn, Marvin M.; and McGuire, James M., 3,467,750.
Soper, Quentin F., 3,442,639.
Soper, Quentin F., 3,443,015.
Soper, Quentin F., 3,466,329.
Spencer, John L., 3,462,419.
Tilak, Manohar A., 3,485,810.
Traverso, John J., 3,485,871.
Van Heyningen, Earle M., 3,445,463.
Van Heyningen, Earle M., 3,446,803.
Whitehead, Calvert W., 3,435,031.
Wright, William L., 3,449,111.

Lilly, Leslie G. Portable transistorized electro-luminescent night light. 3,461,346, 8-12-69, Cl. 315-276.

Liloia, Gerald J.; and May, Louis F., Jr., to Johnson & Johnson. Surgical drape. 3,455,302, 7-15-69, Cl. 128-132.

Lily-Tulip Cup Corporation: *See*—
Mueller, Martin, 3,420,268.
Mueller, Martin, 3,432,027.

Lim, Franklin: *See*—
Schultz, Frederick C.; McFaul, Gordon P.; and Lim, Franklin,3,421,982.

Lim, Kun S.; and Bergen, Edward C., to Wellmade Metal Products Company. Luminaire bracket. 3,473,017, 10-14-69, Cl. 240-73.

Lim, Peter G.: *See*—
Gill, James W.; and Lim, Peter G.,3,422,085.

Lima, Daniel A.; and Hamilton, James P., to FMC Corporation. Plastisols comprising polyvinyl chloride, diallyl orthophthalate and epoxy compound. 3,481,894, 12-2-69, Cl. 260-23.5

Lima, Daniel A.; and Hopper, Theodore R., to FMC Corporation. Improved floor polish compositions. 3,455,704, 7-15-69, Cl. 106-6.

Lima, Daniel A.: *See*—
Ross, John M., Jr.; and Lima, Daniel A.,3,450,484.

Limantour, Julio. Bobbin with strand engaging means. 3,468,496, 9-23-69, Cl. 242-125.1

Limbach, Anthony Paul; and Foglia, Andrew J., to Mobil Oil Corporation. Hollow container body. 3,448,775, 6-10-69, Cl. 138-173.

Limbaugh Engineers, Inc.: *See*—
Meyer, Marion J.; and McCabe, Donald A., 3,468,663.

Limberger, Walter, to Lumoprint Zindler KG. Copying device. 3,427,948, 2-18-69, Cl. 95-75.

Limberger, Walter, to Lumoprint Zindler KG. Apparatus for producing copies. 3,435,750, 4-1-69, Cl. 95-94.

Limberger, Walter, to Lumoprint Zindler KG. Apparatus for producing copies. 3,447,870, 6-3-69, Cl. 355-3.

Limberger, Walter, to Lumoprint Zindler KG. Apparatus for manufacturing copies, and more particularly exposure device. 3,458,255, 7-29-69, Cl. 355-66.

Limberger, Walter; and Wendt, Rudolf, to Sumoprint Findler K.G. Diffusion transfer receiving layer with high soda content. 3,450,535, 6-17-69, Cl. 96-76.

Limbert, Frank J.; and Paddock, Charles F., to United States Rubber Company. Method of making graft polymers of vinyl monomers onto ethylene/propylene terpolymer in a latex. 3,435,096, 3-25-69, Cl. 260-878.

Limnios, Gus: *See*—
Jeffce, Saul P.; and Limnios, Gus,3,466,995.

Limonczenko, Alex D.: *See*—
Neely, Robert E.; and Limonczenko, Alex D.,3,420,040.

Lin, Francis C. M.: *See*—
Grekila, Richard B.; Ho, Shih-Ming; Knochel, William J.; and Lin, Francis C. M.,3,469,729.
Knochel, William J.; and Lin, Francis C. M.,3,450,924.
Knochel, William J.; Lin, Francis C. M.; and Fraser, Hugh D.,3,422,300.
Knochel, William J.; Skwirut, Henry; and Lin, Francis C. M.,3,467,510.

Lin, Hung C., to Westinghouse Electric Corporation. Semiconductor potentiometric device for multiplication and division. 3,448,256, 6-3-69, Cl. 235-195.

Lin, Hung C.; and Shiota, Philip S., to Westinghouse Electric Corporation. Insulated gate field effect transistor structure with reduced current leakage. 3,440,502, 4-22-69, Cl. 317-235.

Lin, Hung Chang, to Westinghouse Electric Corporation. Insulated gate field effect transistors with means preventing overvoltage feedthrough by auxiliary structure providing bipolar transistor action through substrate. 3,466,511, 9-9-69, Cl. 317-235.

Lin, Hung Chang, to Westinghouse Electric Corporation. Integrated back-to-back diodes to prevent breakdown of MIS gate dielectric. 3,470,390, 9-30-69, Cl. 307-237.

Lin, Hung Chang; and van Beek, Herman W., to Westinghouse Electric Corporation. MOS field effect transistor amplifier apparatus. 3,448,397, 6-3-69, Cl. 330-38.

Lin, Kuang Farn, to Hercules Incorporated. Nitrocellulose latices comprising bath over- plasticized and underplasticized nitracellulose particles. 3,421,919, 1-14-69, Cl. 106-170.

Lin, Kuang Farn, to Hercules Incorporated. Water soluble aminoplast/aqueously dispersed plasticized nitrocellulose latex compositions. 3,450,652, 6-17-69, Cl. 260-15.

Lin, Tien-Sung: *See*—
Ehrig, Raymond J.; and Lin, Tien-Sung,3,464,849.

Linardos, Stathis G.; Elmhurst, Richard F.; and Elmhurst, William A., to Lykes Bros., Inc. Logic circuits. 3,428,824, 2-18-69, Cl. 307-215.

Linares, Hubert: *See*—
Breant, Claude; Linares, Hubert; and Seibold, Gerard,3,487,099.

Linares, Robert C., to Perkin-Elmer Corporation, The. Method of growing a single crystal film of a ferrimagnetic material. 3,486,937, 12-30-69, Cl. 117-236.

Lincicome, Thomas N., to Calumet & Hecla, Inc. Dual bellows compensator. 3,424,202, 1-28-69, Cl. 138-31.

Lincks, Hans: *See*—
Feld, Manfred; Lieser, Herbert; Lincks, Hans; and Stockert, Helmut,3,446,463.

Lincoln Brass Works: *See*—
Blanzy, Eugene J.; and Carlson, Everett W., 3,443,591.

Lincoln, Donald A. Articulated crawfish fishing lure. 3,438,144, 4-15-69, Cl. 43-42.15

Lincoln Electric Company, Limited: *See*—
Sevenco, Alexander Jura, 3,423,564.
Sevenco, Alexander Jura, 3,433,924.
Sevenco, Alexander Jura, 3,459,920.

Lincoln Electric Company, The: *See*—
Landis, George G.; and Mosgrove, Walter G., 3,466,907.
Patton, Donald M., 3,461,270.

Lincoln, Frank H., Jr.: *See*—
Beal, Philip F., III; Lincoln, Frank H., Jr.; and Pike, John E.,3,435,053.

Lincoln Laboratories Inc.: *See*—
Hein, Gary L., 3,465,717.

Lincoln, Lewis L.: *See*—
Heseltine, Donald W.; and Lincoln, Lewis L.,3,423,207.
Heseltine, Donald W.; Jones, Jan E.; and Lincoln, Lewis L.,3,481,927.

Lincoln Manufacturing Company, Inc.: *See*—
MacKay, Robert H., 3,456,598.

Lincoln Metal Products Corporation: *See*—
Solomon, Jack, 3,441,329.

Lincoln, Milan L.: *See*—
Helda, Robert W.; and Lincoln, Milan L.,3,444,441.

Lincoln, Paul A.; and Leven, Samuel, to Ingersoll-Rand Company. Drill steel handling apparatus. 3,420,319, 1-7-69, Cl. 175-52.

Lincoln, Robert M.; and Meyers, Joseph A., III, to Atlantic Richfield Company. Method for purifying salts of amino sulfonic acid condensation products. 3,465,033, 9-2-69, Cl. 260-513.

Lincourt, R. Jean-Paul: *See*—
Ouimet, Delphis Roger, 3,486,611.

Lind, Carl Eric Gottfrid, to Aktiebolaget Svenska Precisionsverktyg. Pump driven by an electric motor. 3,464,358, 9-2-69, Cl. 103-25.

Lind, Carl Eric Gottfrid, to Aktiebolaget Svenska Precisionsverktyg. Pump driven by an electric motor. 3,478,688, 11-18-69, Cl. 103-25.

Lind, Carlton Adolph, to American Machine & Foundry Company. Flash evaporator adjustable valve venturi inlet. 3,461,038, 8-12-69, Cl. 202-173.

Lind, Erwin, to Azoplate Corporation, mesne. Electrophotographic process for the manufacture of a highly heat-resistant image. 3,440,045, 4-22-69, Cl. 96-1.

Lind, Erwin: *See*—
Uhlig, Fritz; Lind, Erwin; and Steppan, Hartmut,3,438,778.

Lind, Hans V.: *See*—
Bunting, Ernest V.; and Lind, Hans V.,3,422,906.

Lind, James N.; and Aukland, Jerry C., to North American Rockwell Corporation. Microwave harmonic generator including a waveguide having oppositely extending channels defining a resonant region therein. 3,431,485, 3-4-69, Cl. 321-69.
Lind, Joseph M. Method of treating dough before baking. 3,436,228, 4-1-69, Cl. 99-90.
Lind, Lars H. Valve actuated oxygen supply system. 3,462,117, 8-19-69, Cl. 251-149.6
Lind, Paul U., to Automatic Electric Laboratories, Inc. Pushbutton dialing mechanism. 3,445,610, 5-20-69, Cl. 200-5.
Linda, Frank R.: *See—*
Leiter, Leigh D.; and Linda, Frank R.,3,481,528.
Linda, Frank R.; and Leiter, Leigh D., to International Paper Company. Method of applying handles to containers. 3,484,515, 12-16-69, Cl. 264-242.
Lindahl, George W. Golf game. 3,421,376, 1-14-69, Cl. 73-379.
Lindahl, John H.: *See—*
Boskovich, Boris; Lindahl, John H.; Mehelich, Edward W.; and Mellen, David L.,3,440,504.
Hendrik, Russell C.; Boskovich, Boris; and Lindahl, John H.,3,456,172.
Lindau, John Gustaf Borge; and Lindekrantz, Bo Kristoffer. Detachable furniture. 3,467,433, 9-16-69, Cl. 297-442.
Lindauer Dornier Gesellschaft m.b.H.: *See—*
Gageur, Fritz, 3,457,608.
Gageur, Fritz, 3,469,291.
Kokkinis, Nikolaus, 3,438,402.
Lindaw, Arthur Clarence: *See—*
Starer, Ira; and Lindaw, Arthur Clarence,3,435,010.
Lindberg, Allan W. Gyroscopic apparatus. 3,444,744, 5-20-69, Cl. 74-5.
Lindberg, Arthur F., to Teletype Corporation. Housing for light sensitive devices comprising light conducting tubes in transparent plastic support block. 3,432,676, 3-11-69, Cl. 250-239.
Lindberg, John E., Jr. Apparatus for pretreating metallic hydrides. 3,484,205, 12-16-69, Cl. 23-252.
Lindberg, John E. Temperature averaging system. 3,429,183, 2-25-69, Cl. 73-362.
Lindberg, John E. Temperature detection sensor. 3,470,744, 10-7-69, Cl. 73-368.
Lindberg, John E.; Cook, Leslie J.; and Cook, Kenneth C., to Lundberg, John E. Continuously supported sensor. 3,485,101, 12-23-69, Cl. 73-343.
Lindberg, Lindy E. Method of preparing a pattern on the surface of a charable product. 3,428,101, 2-18-69, Cl. 144-327.
Lindberg, Richard W.: *See—*
Lindberg, Richard W.; and Cade, John W., 3,474,434.
Lindberg, Richard W.; and Cade, John W., 33% to Twohy, Frank, and 4% to Lindberg, Richard W., mesne. Meter recording system compatible with electronic data processing accounting and billing operations. 3,474,434, 10-21-69, Cl. 340-177.
Lindberg, Torsten Erland Folke, to Sandvikens Jernverks Aktiebolag. Ski pole wheel. 3,425,706, 2-4-69, Cl. 280-11.37
Lindberg, Verne L.: *See—*
Artiano, Adrian; and Lindberg, Verne L.,3,421,561.
Palmer, Albert; and Lindberg, Verne L.,3,478,789.
Lindberg, William S.: *See—*
Barecki, Chester J.; and Lindberg, William S.,3,476,455.
Lindblad, Lars O. I.: *See—*
Lindh, Torsten L.; and Lindblad, Lars O. I.,3,445,180.
Lindblad, Lars Olof Ingemar: *See—*
Lindh, Torsten Lennartson; and Lindblad, Lars Olof Ingemar,3,440,125.
Lindblad, Sven Erland Gustav: *See—*
Eriksson, Kjell Karl-Axel; Lindblad, Sven Erland Gustav; and Lindeberg, Bengt Gosta,3,470,450.
Lindblom, Frank W., to Welsh Manufacturing Company. Spectacles with half moon lenses secured by interengaging projections and holes. 3,425,774, 2-4-69, Cl. 351-61.
Lindblom, Ragnvald Erik: *See—*
Hjelte, Nils Sixten; and Lindblom, Ragnvald Erik,3,429,921.
Linde Aktiengesellschaft: *See—*
Becker, Rudolf, 3,421,335.
Becker, Rudolf, 3,426,543.
Becker, Rudolf, 3,464,679.
Becker, Rudolf, 3,477,496.
Hochgesand, Gerhard L., 3,453,835.
Jaeger, Karl; and Scheffel, Werner, 3,432,995.
Jakob, Fritz, 3,436,925.
Jakob, Fritz, 3,477,918.
Meister, Gerhard; and Kreissl, Franz, 3,476,179.
Plotz, Georg; Mayer, Andreas; and Lewandowski, Adolf, 3,421;333.
Poth, Leonhard, 3,479,730.
Progler, Hans; Samaga, Wilhelm; Ehms, Hermann; and Eickemeyer, Rudolf, 3,459,148.
Ruckborn, Gunther; Donhauser, Friedl; and Huber, Johann, 3,429,135.
Ruckborn, Gunther, 3,466,884.
Samaga, Wilhelm, 3,486,286.
Schramm, Walter; and Baldus, Wolfgang, 3,469,410.
Stolz, Karl, 3,443,656.
Weishaupt, Josef, 3,430,934.
Linde Aktiengesellschaft Zentrale Patentabteilung: *See—*
Becker, Rudolf, 3,485,409.
Lindeberg, Bengt Gosta: *See—*
Eriksson, Kjell Karl-Axel; Lindblad, Sven Erland Gustav; and Lindeberg, Bengt Gosta,3,470,450.
Lindekrantz, Bo Kristoffer: *See—*
Lindau, John Gustaf Borge; and Lindekrantz, Bo Kristoffer,3,467,433.
Lindell, Edward, to Ampex Corporation. Memory addressing apparatus. 3,428,951, 2-18-69, Cl. 340-172.5
Lindell, Melvin E.: *See—*
Schneider, Edward B.; and Lindell, Melvin E.,3,427,231.
Lindell, Oswald J. Method of forming teeth on a tubular member. 3,473,211, 10-21-69, Cl. 29-159.2
Lindelof, Leonard A.: *See—*
Casper, Ray K.; and Lindelof, Leonard A.,3,428,138.
Lindelow, Craig W. Mullion. 3,471,985, 10-14-69, Cl. 52-397.
Lindeman, Jesse G. Sheave forming machine. 3,457,751, 7-29-69, Cl. 72-105.
Lindeman, Joe F. Spring tooth chain weeder. 3,463,239, 8-26-69, Cl. 172-100.
Lindeman, Richard J., to Motorola, Inc. Mounting for a shadow mask assembly in a color cathode ray tube. 3,452,234, 6-24-69, Cl. 313-85.
Lindemann, Howard C.; and Busch, Willie A., to Lindly & Company, Inc. Photoelectric defect detector having reflection test transmission test and edgewise test. 3,448,279, 6-3-69, Cl. 250-219.
Lindemann, Martin K., to Air Reduction Company, Incorporated, mesne. Vinyl acetate-methyl butenol copolymers. 3,441,547, 4-29-69, Cl. 260-85.7
Lindemann, Martin K.; and Volpe, Rocco P., to Air Reduction Company, Incorporated, mesne. Aqueous paint composition containing an interpolymer of vinyl acetate, ethylene and glycidyl acrylate. 3,440,199, 4-22-69, Cl. 260-29.6
Lindemann, Martin K.; and Volpe, Rocco P., to Air Reduction Company, Incorporated, mesne. Treatment of woven fabrics with aqueous dispersion of interpolymer of vinyl acetate, ethylene and glycidyl acrylate. 3,440,200, 4-22-69, Cl. 260-29.6
Lindemann, Otto H.: *See—*
Gilbert, Theodore E.; and Lindemann, Otto H.,3,421,477.
Lindemann, Robert E., to Digital Devices, Inc. Adjustable acoustical delay lines also capable of being temperature insensitive. 3,475,705, 10-28-69, Cl. 333-30.
Linden, Bramwell R., to Ozone Metal Products Corporation. Pressure control valve. 3,443,582, 5-13-69, Cl. 137-495.
Linden, Gerbert; Schicke, Peter; and Korner, Hermann, to Boehringer, C. H., Sohn. Synergistic herbicidal compositions of ioxynil and buturon. 3,462,258, 8-19-69, Cl. 71-105.
Linden, Gustave B., to Aerojet-General Corporation. Nitro-substituted dioxolanes and their method of preparation. 3,432,524, 3-11-69, Cl. 260-340.9
Linden, Hanswerner: *See—*
Noeske, Heinz; Feichtinger, Hans; and Linden, Hanswerner,3,444,132.
Linden, Henry R.: *See—*
Feldkirchner, Harlan L.; Linden, Henry R.; Khan, Amanullah R.; and Todesca, Flaminio,3,433,610.
Linden, Henry R.; Baker, Bernard S.; Meek, John; and Allen, Arthur C., 1/2 to Consolidated Natural Gas Service Co., Inc., and 1/2 to Southern California Gas Company, and Southern Counties Gas Company of California, mesne. Gas reformer and control means. 3,438,759, 4-15-69, Cl. 48-196.
Linden Laboratories, Inc.: *See—*
Heny, Steve, 3,441,754.
Lindenbaum, Bernard. Heavy lift helicopter. 3,482,803, 12-9-69, Cl. 244-17.11
Lindenberger, William A., to Bell Telephone Laboratories Incorporated. Sealed reed switch with adjustable reed. 3,426,302, 2-4-69, Cl. 335-154.
Lindenberger, William A., to Bell Telephone Laboratories, Incorporated. Reed switches fused by their walls to each other and a metal support member. 3,431,520, 3-4-69, Cl. 335-112.
Lindenhovius, Alex; Klaver, Petrus; and Appel, Johannes Andreas, to Du Pont de Nemours, E. I., and Company. Process for adjusting the dye receptivity of acry- lic fibers. 3,447,887, 6-3-69, Cl. 8-55.
Lindenmaier, Ernst E.; Jackel, Edgar; and Mathys, Ludwig G., to Krebs & Co. Ltd. Process and apparatus for the purification of the gases generated in the chlorinating treatment of aluminous melts. 3,435,592, 4-1-69, Cl. 55-71.
Lindenmann, Adolf J.: *See—*
Jucker, Ernst; and Lindenmann, Adolf J.,3,445,470.
Jucker, Ernst; and Lindenmann, Adolf J.,3,445,573.
Jucker, Ernst; and Lindenmann, Adolf J.,3,459,756.
Jucker, Ernst; Lindenmann, Adolf J.; and Gadient, Fulvio,3,428,670.

Lindenmann, Adolf; Suess, Rudolf; and Troxler, Franz, to Sandoz Ltd., (a/k/a Sandoz A.G.). 4-(N-substituted)amino-1- substituted phenethyl piperidines. 3,454,566, 7-8-69, Cl. 260-240.
Jucker, Ernst; Lindenmann, Adolf; and Schenker, Erhard,3,426,017.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; and Gadient, Fulvio,3,432,491.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; Gadient, Fulvio; and Stoll, Andre,3,438,976.
Lindenmuth, Terry N.; and Pierson, Charles W., to Eastman Kodak Company. Dental X-ray packet having a uniform overall thickness and method of making same. 3,443,093, 5-6-69, Cl. 250-69.
Lindenthal, James R.: *See—*
Garfinkel, Harmon M.; and Lindenthal, James R.,3,425,816.
Linder, Fritz. Heated sterilizing apparatus utilizing a pressure-tight vessel. 3,443,884, 5-13-69, Cl. 21-93.
Linder, Fritz. Bacteriaproof plastic bag for articles to be sterilized. 3,468,471, 9-23-69, Cl. 229-62.5
Linder, Fritz. Sliding closure for pressure vessels and autoclaves. 3,478,916, 11-18-69, Cl. 220-41.
Linder, Fritz. Arrangement for a steam-heated autoclave. 3,481,692, 12-2-69, Cl. 21-94.
Linder, Fritz; Frostell, Goran; and Hesselgren, Sven-Gunnar. Method of sterilization. 3,457,031, 7-22-69, Cl. 21-58.
Linder, George J., to Camera Corporation of America. Photographic apparatus. 3,440,941, 4-29-69, Cl. 95-13.
Linder, Howard P. Freezer thaw alarms. 3,461,834, 8-19-69, Cl. 116-106.
Linder, Jerome: *See—*
Weil, Edward D.; and Linder, Jerome,3,443,016.
Weil, Edward D.; Dorfman, Edwin; and Linder, Jerome,3,467,622.
Linder, Rene Werner. Rotary volumetric machine. 3,474,954, 10-28-69, Cl. 230-141.
Linderholm, Sven; and Diser, Birger, to Allmanna Svenska Elektriska Aktiebolaget. Method and device for manufacturing cylindrical capacitors. 3,445,903, 5-27-69, Cl. 29-25.42
Linderman, James Stephens, to Du Pont de Nemours, E. I., and Company. Electrical counting apparatus. 3,448,252, 6-3-69, Cl. 235-92.
Linderman, Shayne. Hose handling apparatus, self-propelled, with horizontal drum. 3,446,235, 5-27-69, Cl. 137-344.
Linders, Karl: *See—*
Groos, Horst Hans; Linders, Karl; and Seidel, Karl,3,440,854.
Lindesmith, Harold R.; Sulecki, Richard P.; and Tuck, Charles R., to Werner, R. D., Co., Inc. Method of joining a ladder rung to a side rail. 3,481,026, 12-2-69, Cl. 29-516.
Lindesmith, Harold R.; Sulecki, Richard P.; Tuck, Charles R.; and Werner, Richard L., to Werner, R. D., Co., Inc. Method of joining a ladder rung to a side rail. 3,484,931, 12-23-69, Cl. 29-516.
Lindgren, Milton F.: *See—*
Brady, Laurence M.; and Lindgren, Milton F.,3,433,100.
Lindgren, Owe, to Aktiebolaget Gylling & Co. Amplifier with two separate channels. 3,461,240, 8-12-69, Cl. 179-1.
Lindgren, Raymond E.; and Wickstrom, Svante Theodore, to Minnesota Mining and Manufacturing Company. System for selectively reproducing signals recorded at different levels. 3,475,564, 10-28-69, Cl. 179-100.2
Lindgren, Rodney J.: *See—*
Segur, Asa B.; and Lindgren, Rodney J.,3,483,591.
Lindgren, Ronald C. Artificial limb having interchangeable leg sections and length adjusting means. 3,461,464, 8-19-69, Cl. 3-21.
Lindh, Thorsten Lennartson: *See—*
Stark, Sven Olof Soren; Mellc, Hans-Georg Wilhelm; and Lindh, Thorsten Lennartson,3,462,334.
Lindh, Thyrsten Lennartson: *See—*
Stark, Sven Olof Soren; and Lindh, Thyrsten Lennartson,3,455,214.
Lindh, Torsten Lennartson; and Lindblad, Lars Olof Ingemar, to AB Tetra Pak. Device for use in machines for manufacturing plastic foil covered paper. 3,440,125, 4-22-69, Cl. 156-498.
Lindh, Torsten L.; and Lindblad, Lars O. I., to AB Tetra Pak. Method of eliminating damage in heat treating a packaging material. 3,445,180, 5-20-69, Cl. 21-56.
Lindholm, Ingemar; and Karlsson, Gun, to Allmanna Svenska Elektriska Aktiebolaget. Method of manufacturing a porous electrode containing a boron compound. 3,470,030, 9-30-69, Cl. 136-120.
Lindholm, Ingemar; and Mueller, Bo, to Allmanna Svenska Elektriska Aktiebolaget. Sintered nickel boride electrode and fuel cell therewith. 3,437,526, 4-8-69, Cl. 136-86.
Lindholm, Ingemar: *See—*
von Krusenstierna, Otto; Lindholm, Ingemar; and Malmberg, Gunnar,3,432,353.
Lindley, Charles A. Space vehicle spin control. 3,437,286, 4-8-69, Cl. 244-1.
Lindley, Donald C., to Cellu-Craft Products Corporation. Method for applying handles to plastic bags. 3,455,760, 7-15-69, Cl. 156-264.
Lindley, John P.: *See—*
Foster, Leigh Curtis; and Lindley, John P.,3,467,509.
Lindly & Company, Inc.: *See—*
Lindemann, Howard C.; and Busch, Willie A., 3,448,279.
Lindmark, Bo Mauritz, to A.B. Broderna Hedlund. Roller die bending machine for finishing longitudinal tubular edges including guiding means projecting into a gap therebetween. 3,430,475, 3-4-69, Cl. 72-179.
Lindmayer, Joseph: *See—*
Busen, Karl; Lindmayer, Joseph; Schneider, William C.; and Tsang, Wei K.,3,443,174.
Lindmayer, Joseph; Wrigley, Charles Y.; and Garnache, Richard R., to Sprague Electric Company. Method of making a narrow base transistor. 3,455,748, 7-15-69, Cl. 148-175.
Kahn, Manfred; Lindmayer, Joseph; and North, William D.,3,443,236.
Lindner, Edmund G. Device for releasing a snagged fishing lure. 3,464,138, 9-2-69, Cl. 43-17.2
Lindner, Edmund; and Knoll, Arnulf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Shutoff nozzle for injection molding machines. 3,468,482, 9-23-69, Cl. 239-453.
Lindner, Ernst: *See—*
Ehrhart, Gustav; Lindner, Ernst; and Ott, Heinrich,3,475,482.
Lindner, Heinz, to Jost-Werke G.m.b.H., Firma. Coupler for tractor-trailer. 3,434,736, 3-25-69, Cl. 280-435.
Lindner, Hellmuth Gustav; and Kotzerke, Wilfried Willy, to VEB Vereinigte Feinstrumpfwerke. Stitch cam and method of knitting semidrawn yarn. 3,435,636, 4-1-69, Cl. 66-57.
Lindner, Herbert, GmbH: *See—*
Stade, Gerhard, 3,444,653.
Lindner, Irmgard: *See—*
Obendorf, Werner; and Lindner, Irmgard,3,453,322.
Obendorf, Werner; and Lindner, Irmgard,3,484,481.
Lindner, Melvin: *See—*
Kaufman, Myron N.; and Lindner, Melvin,3,479,439.
Lindner, Robert G.: *See—*
Albrecht, Raymond E.; Curran, Bernard E.; and Lindner, Robert G.,3,462,902.
Lindner, Werner; Krautwald, Herbert; and Schedele, Helmut, to Siemens Aktiengesellschaft. Electromagnetic relay with multiple contact spring sets. 3,479,623, 11-18-69, Cl. 335-129.
Lindo, Neil Adams: *See—*
Pierce, Arleen Cecilia; and Lindo, Neil Adams,3,420,894.
Lindquist, Arne Herman, to Nydavist & Holm Aktiebolag. Mounting device for wicket gates of a turbine. 3,436,055, 4-1-69, Cl. 251-305.
Lindquist, Arne M., to Aktiebolaget Helios Kemisk-Tekniska Fabriker. Metering apparatus. 3,478,934, 11-18-69, Cl. 222-309.
Lindquist, Arwin B.: *See—*
Seeber, Robert R.; and Lindquist, Arwin B.,3,430,205.
Lindquist, Carl Richard, 50% to Johnsson, Ellen E. Sewing needle with eye having entrance slot. 3,473,710, 10-21-69, Cl. 223-102.
Lindquist, Carl R. Cake ornamenting flower spinner. 3,420,210, 1-7-69, Cl. 118-18.
Lindquist, Everet F., to Measurement Research Center, Inc. Document feeding mechanism. 3,485,489, 12-23-69, Cl. 271-6.
Lindquist, Jonas Theodore; and Stunkel, Barry A. Safety mechanism for use in connection with presses and other apparatuses such as conventional metal bending and forming apparatuses. 3,464,291, 9-2-69, Cl. 74-613.
Lindquist, Richard H.: *See—*
Currier, Gerald F., 3,421,551.
Lindquist, Robert H., to Chevron Research Company. Preparation of metals and metal alloys. 3,458,306, 7-29-69, Cl. 75-0.5
Lindquist, Robert H.; and Mulaskey, Bernard F., to Chevron Research Company. Process for producing ferrimagnetic materials. 3,425,666, 2-4-69, Cl. 256-62.58
Lindquist, Robert M. L. Method and apparatus for moving fluids. 3,456,873, 7-22-69, Cl. 230-160.
Lindquist, Terry K., to Borg-Warner Corporation. Friction plate employing separator means. 3,455,423, 7-15-69, Cl. 192-107.
Lindquist, William C.: *See—*
Speiser, Ralph W.; and Lindquist, William C.,3,460,350.
Lindqvist, Jonas Herman, to HIAB-FOCO Aktiebolag. Catching tool for a loading crane. 3,421,791, 1-14-69, Cl. 294-88.
Lindsay, Arwin O.; and Boalen, Kenneth C. Work guide means for centerless grinding machines. 3,449,867, 6-17-69, Cl. 51-103.
Lindsay, George F.; and Whitehouse, Harper John, to United States of America, Navy. Torsional delay line matched filter device. 3,487,203, 12-30-69, Cl. 235-181.
Lindsay, George F.: *See—*
Whitehouse, Harper J.; and Lindsay, George F.,3,458,694.
Lindsay, James B. Apparatus for detailing topographic maps in accordance with aerial photographs of topography. 3,479,115, 11-18-69, Cl. 353-6.
Lindsay, John. Method for making relief maps. 3,487,133, 12-30-69, Cl. 264-40.
Lindsay, Kenneth W.; and Ensmann, Burt W., to Ideal Toy Corporation. Walking mechanism. 3,425,154, 2-4-69, Cl. 46-150.
Lindsay, Kenneth W.; and Ensmann, Burt W., to Ideal Toy Corporation. Cylinder-type talking mechanism. 3,477,728, 11-11-69, Cl. 274-1.

Lindsay, Lonnie K.: *See—*
Baker, Arthur Y., Jr.; and Lindsay, Lonnie K.,3,482,255.
Lindsay, Thomas E.: *See—*
Gibson, Richard B.; Kerr, Douglas A.; and Lindsay, Thomas E.,3,457,550.
Lindsay, Wesley Newton. Motor driven variable capacitor. 3,447,047, 5-27-69, Cl. 317-245.
Lindsey, Hughie G. Mobile desk for vehicles. 3,425,366, 2-4-69, Cl. 108-45.
Lindsey, Joe P., to Phillips Petroleum Company. Signal interpretation. 3,432,807, 3-11-69, Cl. 340-15.5
Lindsey, Joe P.; and Elliott, Sheldon E., to Phillips Petroleum Company. Seismic signal interpretation. 3,430,193, 2-25-69, Cl. 340-15.5
Lindsey, Joe P.: *See—*
Sterry, Dan G.; and Lindsey, Joe P.,3,427,111.
Lindsey, L. E. Conductor clamping assembly for use on horizontally extending insulators. 3,437,299, 4-8-69, Cl. 248-74.
Lindsey, L. E. Retractable footstep for utility poles and the like. 3,473,628, 10-21-69, Cl. 182-92.
Lindsey, L E. Conductor clamping assembly. 3,437,742, 4-8-69, Cl. 174-169.
Lindsey, L E. High tension conductor clamping assembly. 3,437,743, 4-8-69, Cl. 174-169.
Lindsey, Marvin H. Vacuum filtration device. 3,437,211, 4-8-69, Cl. 210-406.
Lindsey, Roland G., to Du Pont de Nemours, E. I., and Company. Polymerization process for formulating terpolymers from a conjugated diene, an α,β-unsaturated monocarboxylic acid and a lower alkyl ester of an α,β-unsaturated monocarboxylic acid. 3,471,591, 10-7-69, Cl. 260-879.
Lindsey, Seth B.: *See—*
Klancke, John H.; and Lindsey, Seth B.,3,456,094.
Lindsey, William B.; and Locey, Mark M., to Du Pont de Nemours, E. I., and Company. Process of surface treating and laminating perfluorocarbon polymer films and laminated products made thereby. 3,455,774, 7-15-69, Cl. 161-189.
Lindsley, Charles H., to American Enka Corporation. Identifiable synthetic polymeric materials containing gold, indium and/or lanthanum. 3,439,168, 4-15-69, Cl. 250-106.
Lindsley, John Francis: *See—*
Chomitz, Nicholas; Lindsley, John Francis; and Price, Charles D.,3,451,102.
Lindstedt, Ake: *See—*
Agerman, Erik; Lindstedt, Ake; and Nilsson, Nils-Erik,3,470,404.
Lindstrom, Aarno S.: *See—*
Suominen, Heikki S.; Makinen, Viljo J.; and Lindstrom, Aarno S.,3,482,761.
Lindstrom, Alan R.: *See—*
Lindstrom, Rudolph O.; and Lindstrom, Alan R.,3,474,844.
Lindstrom, Alrik Civer. Screw cap with locking means. 3,463,340, 8-26-69, Cl. 215-40.
Lindstrom, Carl, Gesellschaft m.b.H.: *See—*
Damm, Kurt; and Strausfeld, Hermann, 3,474,494.
Lindstrom, Eddie G., to Chevron Research Company. Antismoke barium phenate compositions. 3,438,756, 4-15-69, Cl. 44-51.
Lindstrom, Eddie G.; and Barusch, Maurice R., to Chevron Research Company. Gasolines containing deposit-reducing monoamides of polyamines characterized by improved water tolerance. 3,468,639, 9-23-69, Cl. 44-66.
Lindstrom, Eddie G.; and Mehmedbasich, Enver, to Chevron Research Company. N-hydrocarbon succinimidyl polymers. 3,450,715, 6-17-69, Cl. 260-326.3
Lindstrom, Horace L. Water skimmer. 3,438,205, 4-15-69, Cl. 61-1.
Lindstrom, Horace L. Water purification system. 3,483,983, 12-16-69, Cl. 210-167.
Lindstrom, Kenneth. Brake adjusting mechanism. 3,465,603, 9-9-69, Cl. 74-89.14
Lindstrom, Oscar H.; and Clark, Neil M., to Hormel, Geo., A., & Company. Shingling bacon process and apparatus. 3,470,668, 10-7-69, Cl. 53-23.
Lindstrom, Richard S.: *See—*
Cairns, Walter J.; and Lindstrom, Richard S.,3,483,069.
Lindstrom, Roald E.: *See—*
Bauer, Donald J.; and Lindstrom, Roald E.,3,425,793.
Lindstrom, Rudolph O.; and Lindstrom, Alan R. Latching device for collapsible container. 3,474,844, 10-28-69, Cl. 150-0.5
Lindstrom, Wictor Carl Olaf, to Jagenburg & Media AB. Method of sealing cartons. 3,443,354, 5-13-69, Cl. 53-47.
Lindt, Stanley L.: *See—*
Church, Ralph E.; and Lindt, Stanley L.,3,465,182.
Lindt, Stanley L.; and Woods, Clarence W., Jr., to General Electric Company. Method of manufacturing an electrical coil assembly. 3,438,122, 4-15-69, Cl. 29-596.
Lindtveit, Herbert, to Harvey, Sid, Inc. Oil burner motor adaptor. 3,432,705, 3-11-69, Cl. 310-91.
L'Industrie Electrique de la Seine:*See—*
Alletru, Jean, 3,441,883.
Lindvall, Erik Emanuel: *See—*
Ivnas, Lennart; Lindvall, Erik Emanuel; and Steffner, Sven Evert,3,481,686.
Lindy Pen Company, Incorporated: *See—*
Jenkins, Roy M., 3,424,539.
Jenkins, Roy M., 3,466,708.
Line, Gerald D., to Eaton Yale & Towne, Inc. Hydraulic valve lifter. 3,476,093, 11-4-69, Cl. 123-90.
Line, Gerald D., to Eaton Yale & Towne, Inc. Hydraulic lifter. 3,477,416, 11-11-69, Cl. 123-90.
Lineback, James T.: *See—*
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S.,3,434,828.
Lineberg, Birger David. Method and apparatus for measuring water impurities in oil. 3,481,182, 12-2-69, Cl. 73-61.1
Lineburg, Glenn E.: *See—*
Curler, Howard J.; and Lineburg, Glenn E.,3,445,324.
Lineker, Robert L. Rear seals for journal boxes. 3,445,121, 5-20-69, Cl. 277-178.
Lineman, Harry L.: *See—*
Broderick, John W.; Florenza, Robert M.; Kozar, Michael; and Lineman, Harry L.,3,472,376.
Linen Industry Research Association: *See—*
Spencer-Smith, John L.; and Ruddell, James N., 3,436,904.
Liner, Ernest E. Apparatus for use in the rebuilding of valves for internal combustion engines. 3,449,835, 6-17-69, Cl. 33-169.
Linetsky, Semen Grigorievich: *See—*
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Jakov Benediktovich,3,447,332.
Linfield, Warner M.: *See—*
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M.,3,424,788.
Guttmann, Andrew T.; Jungermann, Eric; and Linfield, Warner M.,3,432,547.
Ling, Andrew T., to Radio Corporation of America. Error detection system. 3,420,991, 1-7-69, Cl. 235-153.
Ling-Temco-Vought, Inc.: *See—*
Barber, Harold G.; and Redmond, William G., 3,428,864.
Johnson, Jim H.; Rainwater, Walter J.; and Standefer, John E., 3,473,096.
Redmond, William G., Jr., 3,427,522.
Lingal, Harry J., to Mosler Safe Company, The. Lock timer. 3,481,166, 12-2-69, Cl. 70-267
Linge, Hermann: *See—*
Martin, Wolfgang; Linge, Hermann; Hendus, Hans; and Wenger, Friedrich,3,434,278.
Lingen, Dieter: *See—*
Rum, Klaus; and Lingen, Dieter,3,439,851.
Lingens, Paul: *See—*
Berthmann, Adolf; and Lingens, Paul,3,472,713.
Linger, Oren R.: *See—*
Vansickle, Robert H.; Linger, Oren R.; and Janshego, James A.,3,481,368.
Lingl, Johann. Method for producing bricks and thereafter hacking the same. 3,468,998, 9-23-69, Cl. 264-148.
Lingle, Jesse C. Electrically operated spin type fishing reel. 3,463,415, 8-26-69, Cl. 242-84.2
Lingle, John T.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,496.
Lingle, John T., to United States of America, National Aeronautics and Space Administration, mesne. Frequency control network for a current feedback oscillator. 3,458,833, 7-29-69, Cl. 331-113.
Lingle, John T., to United States of America, Army. Fast switching low input voltage converter. 3,487,335, 12-30-69, Cl. 331-113.
Lingle, Ruth. Mop. 3,462,790, 8-26-69, Cl. 15-247.
Lingley, Robert Crawford, to Baxter Laboratories, Inc. Process for hypodermic needles having plastic hubs and metal cannulae. 3,437,788, 4-8-69, Cl. 219-162.
Lingwood, William, to Curtiss-Wright Corporation. Gas turbine rotor blade shroud. 3,425,665, 2-4-69, Cl. 253-39.
Linhardt, Robert J.: *See—*
Miller, Henry S.; Linhardt, Robert J.; and Sidnam, Robert D.,3,462,742.
Linhart, Otto C.: *See—*
Van Dolah, Harry J.; and Linhart, Otto C.,3,481,757.
Linhart, Peter B.: *See—*
Brooks, Chester E.; Henry, James L.; Linhart, Peter B.; Markthaler, Grace E.; Massoni, Donald R.; and Meyerle, John A.,3,462,557.
Lini, David C.; Ramey, Kermit C.; and Wise, William B., to Atlantic Richfield Company. Method for the production of 2-butenal. 3,465,043, 9-2-69, Cl. 260-601.
Linich, Viktor Vladimirovich: *See—*
Khachijan, Alexei Sergeevich; Skuinj, Alexandr Kasparovich; Lekhovitser, Moisei Alexandrovich; Linich, Viktor

Vladimirovich; Sharovalov, Sergei Vasiljavich; and Ocheretin, Ivan Vasiljevich,3,480,418.
Link 51 Limited: *See—*
Watts, Percy E.; and Colleran, Brian M., 3,447,653.
Link, Edwin A., to RTE Corporation. Hot line connector. 3,461,419, 8-12-69, Cl. 339-89.
Link, Edwin A. Electrical connector. 3,474,386, 10-21-69, Cl. 339-60.
Link Engineering Company: *See—*
Frederick, Robert E., 3,440,979.
Happold, Manfred R., 3,451,253.
Link, Helmut; and Schaefer, Erich, to Index-Werke K.G., Hahn & Tessky. Control arrangement for automatic machine tools. 3,422,846, 1-21-69, Cl. 137-624.18
Link, Herbert W. Brake lining testing device. 3,444,720, 5-20-69, Cl. 73-9.
Link, Howard D.; Bridwell, Harold C.; and Rowley, David S., to Christensen Diamond Products Company. Retractable drill bits. 3,437,159, 4-8-69, Cl. 175-260.
Link, Jack W., to E & E Engineering Company. Vacuum workholder. 3,460,822, 8-12-69, Cl. 269-21.
Link, John G.: *See—*
Keister, Oliver B., Jr.; Hursh, Charles M.; and Link, John G.,3,446,373.
Link, Norman, to Link, O. P., Handle Company, Inc. Display means for tool handles. 3,435,945, 4-1-69, Cl. 206-46.
Link, O. P., Handle Company, Inc.: *See—*
Link, Norman, 3,435,945.
Link, Paul Eugene: *See—*
Griffith, William Alexander; Link, Paul Eugene; and Burns, Benny Ray,3,464,272.
Link, William T.; and Olander, William C., to Physics International Company. Boron carbide cathode for cold emission type cathode of the field emission type. 3,484,643, 12-16-69, Cl. 313-309.
Linke, Alvin W.; and Cantlin, John H. Dispersion ebullator. 3,435,682, 4-1-69, Cl. 73-368.2
Linke, Arthur G.: *See—*
Cox, Arthur; Gladysz, Carl V.; and Linke, Arthur G.,3,428,023.
Linke, Gunter: *See—*
Munster, Josef; Wellensiek, Gerd; and Linke, Gunter,3,478,725.
Linkens, Derek Arthur; and Talbot, George C. A., to Elliott Brothers (London) Limited. Analogue information storage systems. 3,438,013, 4-8-69, Cl. 340-174.
Linker, John T., to Lear Siegler Inc. Keyboard pushbutton return spring. 3,478,857, 11-18-69, Cl. 197-98.
Linker, Roy E. Windshield wiper assembly. 3,419,932, 1-7-69, Cl. 15-250.06
Linkin, Rodney D., to Case, J. I., Company. Fluid cylinder with piston retaining means. 3,486,419, 12-30-69, Cl. 92-128.
Linkow, Leonard I. Ring-type implant for artificial teeth. 3,465,441, 9-9-69, Cl. 32-10.
Linkroum, Irving E., to Bendix Corporation, The. Electrical pulse generating apparatus. 3,450,940, 6-17-69, Cl. 315-171.
Linkroum, Irving E., to Bendix Corporation, The. Electrical pulse generating apparatus. 3,450,972, 6-17-69, Cl. 315-209.
Linkroum, Irving E.: *See—*
Segall, Louis H.; and Linkroum, Irving E.,3,443,152.
Segall, Louis H.; and Linkroum, Irving E.,3,450,942.
Linn, Albert L.: *See—*
Casper, Ray K.; and Linn, Albert L.,3,461,981.
Linn, Bruce O.: *See—*
Bugianesi, Robert L.; and Linn, Bruce O.,3,481,985.
Shen, Tsung-Ying; and Linn, Bruce O.,3,483,254.
Linn, Maynard W. Measuring arrangement. 3,456,852, 7-22-69, Cl. 222-284.
Linnemann, Rolf; and Voss, Ernst, to Didier-Werke A.G. Means for conveying construction material within a tunnel shaped structure such as a rotary kiln. 3,485,340, 12-23-69, Cl. 198-126.
Linnert, Peter J., to Trane Company, The. Compressor. 3,472,446, 10-14-69, Cl. 230-184.
Linning, David Lees, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,421,979, 1-14-69, Cl. 176-68.
Linning, George F.: *See—*
Brown, Maurice H.; and Linning, George F.,3,428,929.
Linotype, G.m.b.H.: *See—*
Debus, Karl; and Heimel, Kurt, 3,480,133.
Hoffmann, Meinhard; Adler, Erich; and Debus, Karl-Jurgen, 3,466,991.
Linowitzki, Viktor; and Kramer, Heinz, to Keuffel & Esser Company. Process and device for developing a two-component diazotype material. 3,458,314, 7-29-69, Cl. 96-49.
Lins, Albert: *See—*
Killias, Rudolf, 3,438,574.
Lins, Stanley J., to Sperry Rand Corporation. Signal responsive apparatus with a polar azimuth vibrator. 3,445,833, 5-20-69, Cl. 340-174.1
Linsalato, Oronzo L., to Accessory Products Co., (a division of Textron, Inc.). Temperature compensated pressure switch. 3,487,348, 12-30-69, Cl. 337-320.
Linsay, Michael, to Cleveland Trencher Company, The. Apparatus for tensioning a track or the like. 3,477,766, 11-11-69, Cl. 305-10.
Linse, John E., to Bell Telephone Laboratories, Incorporated. Sidetone circuit for 4-wire secure telephone. 3,453,394, 7-1-69, Cl. 179-81.
Linsert, Friedrich: *See—*
Rover, Martin; Luth, Erwin; Schmitz, Lambert; and Linsert, Friedrich,3,433,424.
Linsi, Ulrich, to Aktiengesellschaft Brown, Boveri & Cie. Radial plain bearing for high-speed turbo- machines. 3,427,083, 2-11-69, Cl. 308-122.
Linsley, Clarence R., to General Precision Systems, Inc. Support assembly for an air bearing magnetic head. 3,422,412, 1-14-69, Cl. 340-174.1
Linsley, Douglas F.: *See—*
Ciaccia, Patrick J., 3,482,065.
Linsley, Douglas F. Rudder attachment for outboard engines. 3,435,799, 4-1-69, Cl. 115-18.
Linstead, Lorraine A., to Boye Needle Company, The. Method for making pompons. 3,429,019, 2-25-69, Cl. 28-72.
Linstead, Lorraine A., to Boye Needle Company, The. Stitch holder. 3,438,223, 4-15-69, Cl. 66-1.
Lintelman, Arthur H.; Le Bus, Jake H.; and Norman, James Lee, Jr., to Dresser Industries, Inc., mesne. Knife structure electrode, support, and sealing means for borehole logging apparatus. 3,454,870, 7-8-69, Cl. 324-10.
Linteris, Lino Luigi; and McNaught, John P., to Lever Brothers Company. Cooking method and product. 3,460,948, 8-12-69, Cl. 99-1.
Linton, Charles J., deceased; and Linton, Marilyn J.; executrix, to New Linwood Pool Corporation. Swimming pool support construction. 3,477,185, 11-11-69, Cl. 52-169.
Linton, Howard Richard, to Du Pont de Nemours, E. I., and Company. Inorganic blue to green pigments. 3,450,550, 6-17-69, Cl. 106-300.
Linton, Howard R., to Du Pont de Nemours, E. I., and Company. Stabilized lead chromate pigments and process for making same. 3,470,007, 9-30-69, Cl. 106-298.
Linton, Marilyn J.: *See—*
Linton, Charles J., deceased; and Linton, Marilyn J.; executrix,3,477,185.
Linton, Ulle C. Protector for electrical circuits. 3,469,217, 9-23-69, Cl. 335-208.
Linwood, Derek Arthur, to Hall & Hall Limited. Header ring. 3,469,854, 9-30-69, Cl. 277-124.
Linz, Alois Peter. Valve control for reciprocating piston drive with rapidly starting piston stroke. 3,430,540, 3-4-69, Cl. 91-420.
Linz, Robert M.; and Bednarczuk, Frederick P., to General Electric Company. Tuning indicator. 3,465,708, 9-9-69, Cl. 116-124.1
Linzberger, Robert: *See—*
Karrer, Karl; and Linzberger, Robert,3,468,488.
Linzenkirchner, Karl, to Faun Kommunalfahrzeuge und Lastkraftwagen Karl Schmidt. Fan and clutch with bayonet joint drive. 3,485,444, 12-23-69, Cl. 230-271.
Liobis, Vytautas A.: *See—*
Freedman, David; and Liobis, Vytautas A.,3,430,926.
Freedman, David; and Liobis, Vytautas A.,3,445,341.
Lion Dentifrice Co., Ltd., The: *See—*
Tanaka, Minako; and Yukami, Susumu, 3,484,249.
Lion Fat & Oil Co., Ltd.: *See—*
Marumo, Hideo; and Saithoh, Minoru, 3,448,128.
Lion Packaging Products Company, Inc.: *See—*
Guenther, William, 3,469,769.
Lione, Leonard V.: *See—*
Orem, James W.; Lione, Leonard V.; and Turco, Daniel T.,3,472,451.
Lionel Corporation, The: *See—*
Ferentinos, Dan, 3,445,063.
Lionel-Pacific, Inc.: *See—*
Haberman, Robert W., 3,453,937.
Lionetti, Alberto: *See—*
Natta, Giulio; Carbonaro, Antonio; Lionetti, Alberto; and Porri, Lido,3,462,406.
Lions, Noel: *See—*
Chedeville, Christian; and Lions, Noel,3,486,370.
Liouville, Roger, to Burn, James, & Co., Limited. Book-binding machines. 3,451,081, 6-24-69, Cl. 11-1.
Lipanovich, Marko I.: *See—*
Ransil, Raymond J.; Lipanovich, Marko I.; and Alford, Charles H.,3,457,541.
Lipe, Gordon C.: *See—*
Cubberley, Mitchell H.; and Lipe, Gordon C.,3,448,990.
Lipe-Rollway Corporation: *See—*
Armstrong, Jack W.; Moore, David L.; and Schmidt, Frederick C., 3,468,404.
Lipfert, Donald E., to Nashua Corporation. Apparatus for tape dispensing machine. 3,423,042, 1-21-69, Cl. 242-75.43
Lipfert, Donald E., to Nashua Corporation. Tape dispensing apparatus. 3,485,126, 12-23-69, Cl. 83-205.

Lipfert, Donald E.: *See—*
Jaffe, Martin A.; and Lipfert, Donald E.,3,429,310.
Lipha, Lyonnaise Industrielle Pharmaceutique: *See—*
Szarvasi, Etienne; and Bayssat, Michel, 3,440,250.
Szarvasi, Etienne; and Neuvy, Liliane, 3,445,574.
Szarvasi, Etienne; and Bayssat, Michel, 3,458,529.
Lipinski, Frank. Tower packing. 3,438,614, 4-15-69, Cl. 261-98.
Lipinski, Vincent F.: *See—*
Carissimi, Vincent L.; and Lipinski, Vincent F.,3,452,321.
Carlson, Ernest R.; and Lipinski, Vincent F.,3,474,377.
Lipinsky, Edward S.: *See—*
Snyder, Milton J.; Lipinsky, Edward S.; and Burch, Joseph E.,3,424,598.
Lipinsky, Filipp Alexandrovich. Burner for liquid fuel. 3,443,762, 5-13-69, Cl. 239-424.5
Lipka, Benjamin, to Allied Chemical Corporation. Quaternary leucoauramine compounds. 3,467,658, 9-16-69, Cl. 260-268.
Lipka, Benjamin: *See—*
Spatz, Sydney M.; and Lipka, Benjamin,3,429,900.
Lipka, David H.: *See—*
Goodman, Abraham H.; Pettinato, Edward F.; Kroll, Alfred; and Lipka, David H.,3,475,182.
Lipke, David W., to United States of America, National Aeronautics and Space Administration. Doppler frequency spread correction device for multiplex transmissions. 3,450,842, 6-17-69, Cl. 179-15.
Lipkin, Martin. Protective partition against deceleration. 3,423,121, 1-21-69, Cl. 296-24.
Lipkin, Moses R.: *See—*
Stoops, James W.; Bitterlich, Gordon M.; Lipkin, Moses R.; and Primas, Alex L.,3,480,416.
Lipking, Henry P. Overhead garage door hinge. 3,467,983, 9-23-69, Cl. 16-163.
Lipman, Elmer, to Valve Corporation of America. Safety actuator cap for hand-held dispensers. 3,422,996, 1-21-69, Cl. 222-402.11
Lipman, Jerome S.: *See—*
Erdley, Harold F.; Lipman, Jerome S.; and Shapiro, Sidney,3,463,016.
Lipman, Roger D. A., to Geigy Chemical Corporation. Copolymers of alpha mono-olefins and terpenes. 3,470,145, 9-30-69, Cl. 260-897.
Lipner, Stuart, to Isolated Beef Protein Supplements, Inc., mesne. Meat emulsion and method of preparing same. 3,449,124, 6-10-69, Cl. 99-108.
Lipoma Electronics: *See—*
Watkins, Harley E., 3,457,080.
Watkins, Harley E., 3,468,691.
Lipowski, Stanley A., to Diamond Shamrock Corporation. Synthetic tanning agents for producing shrunken grain leather. 3,423,452, 1-21-69, Cl. 260-512.
Lipowski, Stanley A., to Diamond Shamrock Corporation. Water soluble synthetic tanning agents for producing shrunken grain leather. 3,477,801, 11-11-69, Cl. 8-94.24
Lipowski, Stanley A.; and Kelly, James M., to Diamond Shamrock Corporation. Condensates of sulfonated formaldehydemixed phenols condensates with formaldehyde and a phenol. 3,442,859, 5-6-69, Cl. 260-49.
Lipowski, Stanley A.; and Kelly, James M., to Diamond Alkali Company. Tanning of leather employing synthetic anionic tanning agents. 3,480,379, 11-25-69, Cl. 8-94.24
Lipp, Alfred, to Elektroschmelzwerk Kempten G.m.b.H. Boron-carbon-silicon alloy and method of producing the same. 3,443,935, 5-13-69, Cl. 75-134.
Lipp, Alfred: *See—*
Wiebke, Gunther; and Lipp, Alfred,3,473,972.
Lipp, James: *See—*
Hoffman, Harry S., Jr.; and Lipp, James,3,449,576.
Lipp, James, to International Business Machines Corporation. Total internal reflection deflector. 3,460,883, 8-12-69, Cl. 350-157.
Lipp, Melbourne A.: *See—*
Beekes, Hugh A.; Herrmann, Thomas R.; Lipp, Melbourne A.; Olson, Henning H.; and Schleicher, Allen K.,3,466,845.
Lippe, Friedrich Georg; and Suppan, Fritz. Method and means for purifying, discoloring and clarifying through a continuous and catalytic treatment at room temperature raw sugar juices obtained from sugar containing plants and fruit and also raw sugar solutions. 3,476,597, 11-4-69, Cl. 127-48.
Lippert, Axel: *See—*
Schneider, Rudolf; Bottenbruch, Ludwig; Court, Otto; Damsky, Walter; Spott, Georg; and Lippert, Axel,3,427,003.
Lippert, George, to Ross, Sayre, and Zuckerman, Herman. Teaching machine. 3,484,955, 12-23-69, Cl. 35-35.
Lippert, Henry E. Apparatus for playing miniature golf. 3,469,846, 9-30-69, Cl. 273-176.
Lippiatt, Roy E. Camper hold down brackets for pickup trucks. 3,454,253, 7-8-69, Cl. 248-361.
Lippincott, Lloyd. Wheel driven boat. 3,450,089, 6-17-69, Cl. 115-1.
Lippincott, Richard L., to Whittaker Corporation, mesne. Package for storing and dispensing fluid materials. 3,473,703, 10-21-69, Cl. 222-215.
Lippitt, Maxwell W., Jr.: *See—*
Day, Joe L.; and Lippitt, Maxwell W., Jr.,3,420,223.
Lippke, Paul. Method of and system for operating a high- speed forging press. 3,447,349, 6-3-69, Cl. 72-21.
Lippmann, Hans Joachim; Prolss, Erhard; and Schenk, Horst, to Siemens Aktiengesellschaft. Magnetoform method assembly device. 3,439,403, 4-22-69, Cl. 29-205.
Lippmann, Hans-Joachim: *See—*
Dietz, Helmut; Kuhrt, Friedrich; Lippmann, Hans-Joachim; and Schenk, Horst,3,438,230.
Lippmann, Seymour A.: *See—*
Stiebel, Ariel I.; and Lippmann, Seymour A.,3,431,470.
Lippoldt, Richard F.; and Woods, Warren W., to Continental Oil Company. Coated mulch sheet. 3,427,194, 2-11-69, Cl. 117-155.
Lipscomb, Willis L. Modular die. 3,431,601, 3-11-69, Cl. 18-44.
Lipscombe, William Mark, to Feedback Limited. Apparatus for determining circuit transfer characteristics employing three phase displaced signals and three phase sensitive rectifiers applied to CRT deflectors. 3,484,684, 12-16-69, Cl. 324-57.
Lipsett, Morley S.; and Lee, Paul H., to Perkin-Elmer Corporation, The. Passive optical resonators and systems employing the same. 3,457,415, 7-22-69, Cl. 250-199.
Lipsius, Harold: *See—*
Romano, Ralph, 3,441,077.
Lipsius, Johannes Martin; and Spehr, Eugen, to Rheinstahl Henschel A.G. Dampened railway truck. 3,443,528, 5-13-69, Cl. 105-171.
Lipske, Benjamin B., to National Can Corporation. Can end and method. 3,463,107, 8-26-69, Cl. 113-121.
Lipske, Benjamin B.; Considine, Frank W.; and Zenger, Richard D., to National Can Corporation. Composite container unit. 3,425,589, 2-4-69, Cl. 220-39.
Lipski, Mitchell, Sr.; and Romanek, Thomas. Circle divider. 3,453,738, 7-8-69, Cl. 33-75.
Lipstein, Norman J., to General Electric Company. Commutator and brush cooling apparatus. 3,486,055, 12-23-69, Cl. 310-227.
Liptak, Richard M.: *See—*
Nord, Eric T.; Rosen, Samuel R.; and Liptak, Richard M.,3,429,482.
Lipton, Thomas J., Inc.: *See—*
Cilluffo, Frank A.; and Rusak, Walter, Jr., 3,424,351.
Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin, 3,484,247.
Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin, 3,484,248.
Gurkin, Martin, 3,445,236.
Moore, Thomas Roscoe, Jr.; Graham, Harold Nathanial; and Gurkin, Martin, 3,484,246.
Schroeder, Charles W., 3,482,991.
Zameitat, Wolfgang; and Morse, Roy E., 3,438,785.
Liquid Carbonic Corporation: *See—*
Tyree, Lewis, Jr., 3,435,623.
Liquid Controls Corporation: *See—*
Blomgren, Oscar C., 3,465,683.
Richards, George B., 3,437,104.
Siebold, Howard; and Douglas, Gilbert R., 3,446,072.
Siebold, Howard, 3,457,835.
Lirones, Nick G., to Howmet Corporation. Method for molding of glass and ceramic materials. 3,420,644, 1-7-69, Cl. 65-18.
Lis, Theodore M., to Kollsman Instrument Corporation. Slide type electric switch. 3,476,891, 11-4-69, Cl. 200-16.
Lisbon Industries, Inc.: *See—*
Milbrandt, Ervin A., 3,438,363.
Lischer, Georg; and Gaus, Jakob, to Maschinenfabrik Moenus A.G. Heel attachment by screwnail. 3,434,171, 3-25-69, Cl. 12-147.
Lisenby, Edgar J. Combined earth boring and post driving apparatus. 3,447,613, 6-3-69, Cl. 173-28.
Lish Bros., Incorporated: *See—*
Lish, Henry, 3,435,544.
Lish, Henry, to Lish Bros., Incorporated. Combination boot and removable cuff therefor. 3,435,544, 4-1-69, Cl. 36-2.
Lish, Paul Merrill; Weikel, John H.; and Dykstra, Stanley J., to Mead Johnson & Company. Topical antihistaminic compositions containing methdilazine sulfoxide. 3,435,114, 3-25-69, Cl. 424-247.
Lisk Savory Corporation: *See—*
Berkhoudt, John G.; and Melisz, John M., 3,453,940.
Liska, Erich, to Payer-Lux Eduard Payer. Mounting for two reciprocable lower cutting elements and the cutter foil of a cutter head for a dry shaver. 3,423,826, 1-28-69, Cl. 30-43.92
Liska, Erich, to Payer-Lux Eduard Payer. Hairclippers. 3,460,250, 8-12-69, Cl. 30-221.
Liska, John W., to Firestone Tire & Rubber Company, The. Tire cord. 3,422,873, 1-21-69, Cl. 152-357.
Liske, Donald O.: *See—*
Reinecke, Paul W.; Van Sipe, Ronald L.; Dowd, Walter W.; and Liske, Donald O.,3,430,419.
Liskey, Ernest C., Jr.; and Custer, Richard W. Elevated floor system. 3,420,012, 1-7-69, Cl. 52-126.
Liskey, George W., to FMC Corporation. Apparatus for checking wheel alignment characteristics. 3,423,839, 1-28-69, Cl. 33-203.18

Liskowitz, John W.: *See—*
West, Seymour S.; and Liskowitz, John W.,3,481,671.
Lisle Corporation: *See—*
Arthur, John R.; Pool, James L.; and Graham, Richard K., 3,457,504.
Pool, James L.; and Von Tersch, Alfred L., 3,448,592.
Lisowski, Frank B.: *See—*
Lisowski, John A.; Lisowski, Frank B.; and Lisowski, Leonard E.,3,440,152.
Lisowski, John A.; Lisowski, Frank B.; and Lisowski, Leonard E., to Natural Products Company. Method and electrolyte for electroplating brass. 3,440,152, 4-22-69, Cl. 204-44.
Lisowski, Leonard E.: *See—*
Lisowski, John A.; Lisowski, Frank B.; and Lisowski, Leonard E.,3,440,152.
Lissaman, Brian Thomas: *See—*
Lewis, John; and Lissaman, Brian Thomas,3,450,240.
List & Clark Construction Company: *See—*
Clark, Joe M.; and Workman, Donald P., 3,426,925.
List, Ferdinand; and Alfs, Helmut, to Chemische Werke Huls Aktiengesellschaft. Process for the production of cyclohexenol. 3,467,720, 9-16-69, Cl. 260-617.
List, Ferdinand: *See—*
Kuhnen, Ludwi; List, Ferdinand; and Vangermain, Erwin,3,449,439.
List, Hans: *See—*
Buesch, Siegfried; and Germann, Reimar, 3,479,496.
Busch, Siegfried; Germann, Reimar; and Kolitsch, Robert, 3,452,287.
Scheiterlein, Andreas, 3,444,845.
Scheiterlein, Andreas; Skatsche, Othmar; and Thien, Gerhard, 3,464,398.
Schreiber, Erich; and Skatsche, Othmar, 3,464,257.
Zeiringer, Rudolf, 3,461,327.
List, Hans; and Germann, Reimar. Device for the monitoring of mechanical and thermal stresses of internal combustion engines. 3,472,068, 10-14-69, Cl. 73-116.
List, Hans; and Schreiber, Erich. Attachment to fuel consumption meter. 3,481,191, 12-2-69, Cl. 73-113.
List, Hans; Zeiringer, Rudolf; and Hatschek, Rudolf, said Zeiringer and said Hatschek assors. to said List. Piezoelectric pressure transducer and process for its manufacture. 3,424,930, 1-28-69, Cl. 310-8.7
List, Heinz. Apparatus for the thermal treatment of plastic materials. 3,480,997, 12-2-69, Cl. 18-12.
List, Karl-Hermann; and Noltner, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Apparatus for mechanically after-dehumidifying and further treating filter press cakes of pigment or dispersion dyes. 3,460,681, 8-12-69, Cl. 210-415.
List, William F.; and Schuster, Marvin A., to Westinghouse Electric Corporation. Radiation sensitive switching system for an array of elements. 3,480,780, 11-25-69, Cl. 250-209.
List, William F.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,318.
Schuster, Marvin A.; List, William F.; and Reinitz, Karl,3,448,344.
Lister, James M.: *See—*
Du Mond, Virgil R.; and Lister, James M.,3,441,003.
Lister, John W.; and Smith, Lawrence E., to General Electric Company. Raster distortion correction transformer. 3,440,482, 4-22-69, Cl. 315-24.
Lister-Kaye, John Christopher Lister: *See—*
Cooke, Gordon Noel; Hall, Henry Patrick; and Lister-Kaye, John Christopher Lister,3,481,545.
Listner, Gregory J., to Johnson & Johnson. Stabilizable poly-α-olefin intermediates. 3,432,459, 3-11-69, Cl. 260-33.8
Listner, Gregory J., to Johnson & Johnson. Stabilized polyα-olefin compositions. 3,458,471, 7-29-69, Cl. 260-45.75
Listner, Gregory Julius: *See—*
Kacpernik, William Albert; and Listner, Gregory Julius,3,444,994.
Liston, Carol Ann: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Liston, Daniel B.: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Liston, Daniel E.,: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Liston, James F. Boomerang. 3,467,385, 9-16-69, Cl. 273-106.
Liston, James H.,: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Liston, Marcia: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Liston, Marcia B.: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Liston, Max D., to Smith Kline & French Laboratories. Therapeutic intermittent positive pressure respirator. 3,434,471, 3-25-69, Cl. 128-145.8
Liston, Max D.; Beebe, Cedric H.; and Woolhouse, John T., to Beckman Instruments, Inc. Flowmeter. 3,443,433, 5-13-69, Cl. 73-194.
Liston, Ronald A., to United States of America, Army. Elliptical wheel. 3,459,454, 8-5-69, Cl. 301-5.
Liston, Thomas V., to Chevron Research Company. Alkali metal catalyzed strene depolymerization. 3,424,822, 1-28-69, Cl. 260-881.
Liston, Thomas V., to Chevron Research Company. Polar substituted polymers as detergents- viscosity index improvers. 3,445,387, 5-20-69, Cl. 252-32.7
Litant, Irving; Pratt, Ralph C.; and Allen, Gerald L., to Avco Corporation. Electroluminescent device utilizing interconnected electrically conductive particles within a dielectric medium. 3,475,640, 10-28-69, Cl. 313-108.
Litchfield, Dennis: *See—*
King, Peter Roderick; and Litchfield, Dennis,3,439,552.
Lithium Corporation of America: *See—*
Kamienski, Conrad W.; Diesing, Arthur C.; and Morrison, Robert C. B., 3,452,112.
Screttas, Constantinos G., 3,468,970.
Lithium Corporation of America, Inc.: *See—*
Bach, Ricardo O.; and Boardman, William W., Jr., 3,445,198.
Bach, Ricardo O.; Kamienski, Conrad W.; Dellinger, Matthew Henry; Mitchem, Luther C.; and Morrison, Robert C., 3,445,534.
Kamienski, Conrad W.; Bach, Ricardo O.; and Leonhardt, William S., 3,452,111.
Rai, Vishva R.; and Schwartz, Howard J., 3,438,420.
Litho-Paint Poster Company: *See—*
Berry, Thomas L., Jr.; Mock, Vernon A.; and Olson, Richard S., 3,423,860.
Lithonia Lighting, Inc.: *See—*
Dunckel, Bruce Patten, 3,420,995.
Meckler, Gershon, 3,420,439.
Meckler, Gershon, 3,424,233.
Litke, Alvin C.: *See—*
Anderson, Norman L.; and Litke, Alvin C.,3,470,201.
Litke, Alvin C., to Allied Chemical Corporation. Concentrated colorants. 3,476,500, 11-4-69, Cl. 8-93.
Litle, Robert L.; Sternberg, James C.; and Deuringer, Rudolf, to Beckman Instruments, Inc. Dialyzer apparatus. 3,483,990, 12-16-69, Cl. 210-321.
Litman, Bernard; Silvia, Everett R.; and Stabile, Christopher, to American Bosch Arma Corporation. Vibration attenuator and gyroscope apparatus employing same. 3,479,888, 11-25-69, Cl. 74-5.5
Litollo A/S: *See—*
Nielsen, Georg Peter Christian, 3,460,402.
Nielsen, Georg Peter Christian, 3,484,878.
Litt, Morton H.: *See—*
Evans, Francis W.; and Litt, Morton H.,3,470,256.
Litt, Morton H.; and Evans, Francis W., to Allied Chemical Corporation. Fluorinated ethers. 3,453,333, 7-1-69, Cl. 260-614.
Litt, Morton H.; and Herz, Jack L., to Allied Chemical Corporation. Polyoxazines as antistatic agent for high molecular weight materials. 3,470,267, 9-30-69, Cl. 260-857.
Litt, Morton H.; Levy, Alan J.; and Bassiri, Taghi G., to Allied Chemical Corporation. Carbon-nitrogen backbone chain polymers. 3,483,141, 12-9-69, Cl. 260-2.
Levy, Alan J.; and Litt, Morton H.,3,458,456.
Levy, Alan J.; and Litt, Morton H.,3,464,933.
Levy, Alan J.; and Litt, Morton H.,3,483,145.
Litt, Peter S., 12% each to Hobbs, Walter B. Ball, Ralph K., and Harbaugh, Watson D. Water purification. 3,445,000, 5-20-69, Cl. 210-94.
Littelfuse, Inc.: *See—*
Amis, James W., Jr.; and Dobson, James B., 3,436,716.
Borzoni, John M., 3,436,711.
Littell, F. J., Machine Company: *See—*
Wiig, Chester M., 3,422,653.
Littell, Ruddy; and Allen, George Rodger, Jr., to American Cyanamid Company. 3-Substituted 4-trifluoromethyl indoles. 3,449,363, 6-10-69, Cl. 260-326.13
Littell, Ruddy; Smith, James Miller, Jr.; and Allen, Duff Shederic, Jr., to American Cyanamid Company. Novel substituted 4-aminonico- tinoyl compounds and salts thereof. 3,454,587, 7-8-69, Cl. 260-295.5
Littell, Walter W.: *See—*
Barton, Oliver A.; and Littell, Walter W.,3,422,063.
Littin, Robert J., to Owens-Corning Fiberglas Corporation. Gypsum wallboard. 3,462,341, 8-19-69, Cl. 161-149.
Little, Alfred E., to Emerson Electric Co. Electrical resistance igniter for gas. 3,458,766, 7-29-69, Cl. 317-98.
Little, Arthur D., Inc.: *See—*
Ashman, Leland E., 3,479,167.
Bablouzian, Leon M.; Castonguay, Roger A.; and Wenckus, Joseph F., 3,477,644.
Cairns, Walter J.; and Lindstrom, Richard S., 3,483,069.

Comstock, Daniel F., Jr.; and Richardson, David L., 3,439,985.
Davis, William J.; and Church, Richard O., 3,474,703.
Flood, Harold W.; Kusik, Charles L.; and Tremblay, Frank J., 3,440,009.
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L., 3,464,860.
George, James H. B.; Dennard, Albert E.; and Kreidl, Ekkehard L., 3,470,024.
Glaser, Peter E.; Johnston, Reed H.; and Jolkovski, Robert M., 3,425,060.
Hidden, William P.; and Cairns, Walter J., 3,485,562.
Johnson, Alfred R., 3,459,106.
McCullough, John Engstrom; and Moore, Raymond William, Jr., 3,440,390.
Mogayzel, John W.; and Adler, Norman, 3,452,601.
Schutte, August H., 3,443,696.
Sullivan, Donald L., 3,445,281.
Zinn, Robert E., 3,436,061.

Little, Arthur D., Research Institute: *See—*
Sharples, Allan; and Banks, William, 3,439,074.

Little, Arthur J., to Stewart-Warner Corporation. Meter reading system. 3,449,736, 6-10-69, Cl. 340-204.

Little, Carl H., to Weber-Knapp Company. Latch mechanism. 3,451,702, 6-24-69, Cl. 292-99.

Little, Carl H.: *See—*
Phelps, Malcolm T.; and Little, Carl H.,3,431,040.

Little, Charles H.; Kliever, Waldo H.; and Weimels, Eugene L., to Universal Drafting Machine Corporation. Automatic drafting-digitizing apparatus. 3,473,157, 10-14-69, Cl. 340-172.5

Little, Clarence W., Jr., to Waukesha Foundry Company, Inc., mesne. Vane pump with annular elastomeric vane- projecting springs. 3,473,478, 10-21-69, Cl. 103-136.

Little, Donald M., to Phillips Petroleum Company. Sulfolane extraction of liquid hydrocarbon streams. 3,434,962, 3-25-69, Cl. 208-237.

Little, Donald M., to Phillips Petroleum Company. Preventing SO_2 resin formation with a sulfolane. 3,474,030, 10-21-69, Cl. 208-338.

Little, Donald M.; and Hettick, George R., to Phillips Petroleum Company. Adduct type hydrocarbon separation without filtration with a sulfolane solvent. 3,448,040, 6-3-69, Cl. 208-308.

Little, Donald M.; and Hettick, George R., to Phillips Petroleum Company. Absorption of sulfur dioxide from mixture with sulfolane. 3,475,329, 10-28-69, Cl. 208-321.

Little, Donald M.; and Hettick, George R., to Phillips Petroleum Company. Adduct type hydrocarbon separation using combination reactor and decomposition zone. 3,477,945, 11-11-69, Cl. 208-308.

Little, Edmund J., to Pyle-National Company, The. Air valve and distribution unit. 3,452,666, 7-1-69, Cl. 98-40.

Little, Ellwood E., to Coleman Company, Inc. The. Self-locking adjustable tent pole. 3,446,523, 5-27-69, Cl. 287-58.

Little, Gaybert B.: *See—*
Berkl, Josef U.; and Little, Gaybert B.,3,420,984.

Little, Harry H. Blanking and shaping apparatus. 3,457,816, 7-29-69, Cl. 83-378.

Little, Jack R.: *See—*
Boyne, William J.; Little, Jack R.; and Wagner, Ulrich,3,432,993.

Little, John C.; and West, James P., to Dow Chemical Company, The. Gasoline containing anti-icing additive. 3,440,029, 4-22-69, Cl. 44-75.

Little, John R.; and Sanford, Elbert A., to Sybron Corporation. Semicrystallized ground coats and enameled articles manufacture therefrom. 3,458,344, 7-29-69, Cl. 117-70.

Little, John R.; and Sanford, Elbert A., to Sybron Corporation, mesne. Semi crystalline ground coats having controlled P_2O_5/B_2O_3 ratio. 3,463,646, 8-26-69, Cl. 106-48.

Little, Knowles G., Jr., to Bendix Corporation, The. Digitally controlled frequency synthesizer. 3,435,367, 3-25-69, Cl. 331-2.

Little, Philip Vernon, to Lucas, Joseph, (Industries) Limited. Electromagnetic relays. 3,486,141, 12-23-69, Cl. 335-187.

Little, Philip Vernon, to Lucas, Joseph, (Industries) Limited. Electromagnetic relays. 3,486,142, 12-23-69, Cl. 335-203.

Little, Ralph. Temperature indicating attachment for developing type cameras. 3,457,846, 7-29-69, Cl. 95-13.

Little, Randel Q.: *See—*
Traise, Thornton P.; Little, Randel Q.; and Watson, Roger W.,3,442,808.

Little, Ronald F.: *See—*
Amsler, Clyde R.; Brastow, Edgar R.; and Little, Ronald F.,3,446,080.
Brastow, Edgar R.; Bjordahl, James; and Little, Ronald F.,3,434,355.

Little, Ruben C. Game board with toy top. 3,421,763, 1-14-69, Cl. 273-108.

Little, Steven M.; Shefler, Sydney; and McGowan, Marvin E., to United States of America, Navy. Piston expelled chemiluminescent water signal dispenser. 3,460,507, 8-12-69, Cl. 116-124.

Little, Vincent C.: *See—*
Berlin, A Samuel; Little, Vincent C.; Leadore, Toney E.; and Reid, Edwin J., Jr.,3,434,421.

Little, William D. Optical projection system. 3,484,599, 12-16-69, Cl. 240-41.3

Littlefield, Carl: *See—*
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R.,3,432,987.
Hansen, Omar, Jr.; Littlefield, Carl; and Haddix, Allen R.,3,466,840.

Littlefield, Robert W. Fish lure. 3,434,230, 3-25-69, Cl. 43-42.06

Littlefuse, Inc.: *See—*
Raab, Andrew F., 3,431,374.

Littlehailes, John David; and Clarke, John Robin Paul, to Imperial Chemical Industries Limited. Amalgam hydrodimerisation of unsaturated compounds. 3,459,784, 8-5-69, Cl. 260-465.8

Littlejohn, Bill R.: *See—*
Ralston, William K.; and Littlejohn, Bill R.,3,430,554.

Littlejohn, Duane P.: *See—*
Gielow, David E.; and Littlejohn, Duane P.,3,471,691.
Llewellyn, Peter M.; and Littlejohn, Duane P.,3,429,105.
Llewellyn, Peter M.; and Littlejohn, Duane P.,3,471,692.

Littlejohn, Duane P.; and Llewellyn, Peter M., to Varian Associates. Ion cyclotron resonance spectrometer having the analyzer means pivotally mounted on the magnet yoke. 3,445,649, 5-20-69, Cl. 250-41.9

Littlejohn, William. Covered airport construction. 3,481,566, 12-2-69, Cl. 244-114.

Littlepage, James H.: *See—*
Motl, Anton; and Littlepage, James H.,3,476,342.

Littler, Francis W.: *See—*
Jakaitis, Eugene A.; Littler, Francis W.; and Roblendano, Emilio A.,3,432,319.

Littmann, Joseph C., to Ferro Manufacturing Corporation. Torque responsive parking brake. 3,455,418, 7-15-69, Cl. 188-162.

Littmann, Joseph C., to Ferro Manufacturing Corporation. Reverse switching mechanism for headlight cover actuator. 3,462,717, 8-19-69, Cl. 335-74.

Littmann, Joseph C., to Ferro Manufacturing Corporation. Seat adjuster circuit control. 3,471,765, 10-7-69, Cl. 318-286.

Littmann, Joseph C., to Ferro Manufacturing Corporation. Safety circuit for window regulator mechanism. 3,471,969, 10-14-69, Cl. 49-28.

Littmann, Joseph C., to Ferro Manufacturing Corporation. Rotary drive mechanism including torque responsive switch. 3,478,182, 11-11-69, Cl. 200-61.46

Litton Business Systems, Inc.: *See—*
Byland, Henry Lowell, 3,484,164.
Fischer, Armin O., 3,477,638.
Gang, Herman, 3,458,125.
Gang, Herman, 3,472,450.
Hare, Lloyd E.; and Rosborg, Daniel J., 3,438,476.
Hare, Lloyd H., 3,432,019.
Heiner, Edward A.; and Flannery, John D., 3,435,483.
Henes, Martin E., 3,477,640.
Jensen, Alan K., 3,483,542.
La Manna, Richard J., 3,475,739.
Morelli, Joseph L., 3,432,021.
Parker, Charles A., 3,469,754.

Litton Great Lakes Corporation: *See—*
Myers, Richard A., 3,447,503.

Litton Industries, Inc.: *See—*
Dodge, David L.; Altieri, Joseph R.; and Kezer, Charles F., 3,457,503.
Enenstein, Norman H., 3,427,611.
Gerling, John E., 3,472,200.
Kezer, Charles F.; and Zingarelli, Thomas P., 2nd, 3,445,071.
Penfold, Alan S.; and Fonda-Bonardi, Giusto, 3,442,758.
Penfold, Alan S., 3,463,150.

Litton Precision Products, Inc.: *See—*
Anderson, Charles E.; and Dudfield, James, 3,444,615.
Bennett, Edward L.; Lockwood, Raymond M.; and Wichers, Henry W., 3,485,487.
Cougoule, Robert L., 3,430,022.
Cougoule, Robert L., 3,439,143.
Di Meo, Frank N., 3,452,260.
Fyler, Norman F., 3,431,511.
Fyler, Norman F., 3,436,510.
Hollingsworth, Ashley James, 3,429,359.
Hull, Joseph F., 3,478,247.
Klotz, Robert E., 3,471,811.
Margolien, David H.; and Kanawyer, Walter N., 3,435,446.
Margolien, David H.; Lee, Arnold St. J.; and Krag, Niels, 3,444,549.
Margolien, David H.; and Krag, Niels, 3,484,776.
Noren, Don W., 3,481,014.
Otsuka, Susumu Paul, 3,462,637.
Perkins, William H.; and Klotz, Robert E., 3,478,246.
Pokorny, Gerold E., 3,479,572.
Roth, Karl, 3,439,243.

Smith, Leonard S., 3,474,343.
Litton Systems, Inc.: *See*—
Barrett, Robert W., 3,461,325.
Betton, Arnold L., 3,450,980.
Blakely, Roger W., Jr., 3,463,009.
Boodman, Emil R.; McGuire, Douglas; and Wilce, Emerson B., 3,464,108.
Brewer, Aubrey K.; and Adelman, Stuart L., 3,470,373.
De Tar, Donald R., 3,426,315.
Duncan, Glen R.; and Wertz, William H., 3,478,273.
Erdley, Harold F.; Lipman, Jerome S.; and Shapiro, Sidney, 3,463,016.
Fonda-Bonardi, Giusto, 3,421,158.
Fonda-Bonardi, Giusto, 3,466,061.
Griffith, Robert C.; and Goodall, David A., 3,486,067.
Handman, Arthur L., 3,438,576.
Harker, James Lincoln; and Kendall, Robert T., 3,465,206.
Hartman, Richard H., 3,427,581.
Knowles, Robert G., 3,475,657.
Kohl, Douglas A., 3,432,749.
Kruse, James A., 3,440,522.
Leopold, Reuven, 3,447,502.
Lunine, David, 3,436,819.
Mueller, Rolf K., 3,449,579.
Mullin, Doyle D., 3,444,667.
Newhoff, Harry Robert, 3,434,051.
Payton, James Y., 3,425,040.
Reimann, William G., 3,469,019.
Ruhnke, Lothar H., 3,426,280.
Sanders, Robert G., 3,451,893.
Schneider, Edward B.; and Lindell, Melvin E., 3,427,231.
Shively, Richard P.; and Dickey, David V., 3,434,128.
Shively, Richard P.; and Dickey, David V., 3,469,246.
Shively, Richard P.; and Sigal, Burton C., 3,469,249.
Sparks, Richard A.; and Higgins, Edgar L., 3,445,774.
Thrasher, Howard G.; Rickords, Tommy J.; and Bell, Harold M., Jr., 3,481,208.
Throckmorton, Richard S., 3,436,531.
Zimmerman, Rhoderick H., 3,443,127.
Littrell, Odie L.: *See*—
Ullman, Peter J.; and Littrell, Odie L.,3,421,203.
Littwin, Arthur K.: *See*—
Littwin, Arthur K.; and Littwin, Robert L., 3,445,620.
Littwin, Arthur K., 3,473,287.
Littwin, Arthur K.; and Littwin, Donald F., 3,478,876.
Littwin, Arthur K., to Littwin, Arthur K. Littwin, Robert L. Littwin, Donald F. Young, Horace A., as trustees under trust known as Littwin Family Trust No. 1. Magnetically and electrically controlled measuring and packaging apparatus and method. 3,473,287, 10-21-69, Cl. 53-35.
Littwin, Arthur K.; and Littwin, Donald F., to Littwin, Arthur K., Littwin, Robert L., Littwin, Donald F., and Young, Horace A., trustees of Littwin Family trust no. 1. Magnetic parts sorter. 3,478,876, 11-18-69, Cl. 209-73.
Littwin, Arthur K.; and Littwin, Robert L., to Littwin, Arthur K. Littwin, Robert L. Littwin, Donald F., and Young, Horace A., as trustees under trust known as Littwin Family Trust No. 1. Apparatus for and method of demagnetizing. 3,445,620, 5-20-69, Cl. 219-108.
Littwin, Donald F.: *See*—
Littwin, Arthur K.; and Littwin, Robert L., 3,445,620.
Littwin, Arthur K., 3,473,287.
Littwin, Arthur K.; and Littwin, Donald F., 3,478,876.
Littwin, Donald F.: *See*—
Littwin, Arthur K.; and Littwin, Donald F.,3,478,876.
Littwin Family Trust No. 1: *See*—
Littwin, Arthur K.; and Littwin, Robert L., 3,445,620.
Littwin, Arthur K.; and Littwin, Donald F., 3,478,876.
Littwin, Robert L.: *See*—
Littwin, Arthur K.; and Littwin, Robert L., 3,445,620.
Littwin, Arthur K., 3,473,287.
Littwin, Arthur K.; and Littwin, Donald F., 3,478,876.
Littwin, Robert L.: *See*—
Littwin, Arthur K.; and Littwin, Robert L.,3,445,620.
Litvinov, Ivan Petrovich: *See*—
Tobolov, Petr Nikitich; Kriger, Jury Arkadievich; Litvinov, Ivan Petrovich; Bashirov, Ismagil Gareevich; and Fildshtein, Mikhail Viktorovich,3,451,659.
Litwinoff, Richard, to Sulzer Brothers, Ltd. Steam generator having a flue and an access shaft. 3,448,726, 6-10-69, Cl. 122-235.
Litz, Charles J., Jr.; and Pitney, Lennord L., to United States of America, Army. Ejection apparatus. 3,459,099, 8-5-69, Cl. 89-1.5
Litz, Frank A.; and Lynott, John J., to International Business Machines Corporation. Optical data line counter. 3,439,153, 4-15-69, Cl. 235-61.11
Litz, John E., to Union Carbide Corporation. Process for recovering copper and molybdenum from ore concentrates. 3,455,677, 7-15-69, Cl. 75-84.
Litz, Lawrence M.; and Rothfleisch, Jack E., to Union Carbide Corporation. Hydrogen generator. 3,459,510, 8-5-69, Cl. 23-282.
Litzenberger, Al: *See*—
Welton, Charles L., 3,467,046.
Litzenberger, Carl R.: *See*—
Welton, Charles L., 3,467,046.
Litzka, Hans, to Gunther Wagner Pelikan-Werke. Marking device. 3,467,477, 9-16-69, Cl. 401-258.
Litzler, Cyril A. Apparatus for testing tire and industrial cords. 3,474,666, 10-28-69, Cl. 73-95.5
Liu, Andrew Tze-Chiu: *See*—
Fishwick, Brian Ribbons; and Liu, Andrew Tze-Chiu,3,445,454.
Liu, Der Sheng: *See*—
Hinkein, Donald J.; and Liu, Der Sheng,3,431,457.
Liu, Frederick F., to Quantum Dynamics, Inc. Device for measurement of gas properties and gas flow rate. 3,442,135, 5-6-69, Cl. 73-419.
Liu, Frederick F.; and Berwin, Ted W., to Quantum Dynamics, Inc., (Elastronics Laboratories Division). Density measurement device for cryogenic fluids and other non-polar fluids. 3,421,077, 1-7-69, Cl. 324-61.
Liu, Gordon Y. T.; and Strange, Carl P., to Dow Chemical Company, The. Pyrolyzed blend of polyethylene and polypropylene. 3,420,916, 1-7-69, Cl. 260-897.
Liva, Robert H., to Xerox Corporation. Paper support and registration means for reproduction. 3,422,756, 1-21-69, Cl. 101-132.
Liva, Robert H., to Xerox Corporation. Paper feed mechanism. 3,425,685, 2-4-69, Cl. 271-21.
Liva, Robert H.: *See*—
Mallory, Donald G.; Ashton, Raymond J.; and Liva, Robert H.,3,480,360.
Yarger, Norman L.; and Liva, Robert H.,3,434,710.
Livaudais, Loyd J. Method for forming pontoons, boats and the like. 3,427,671, 2-18-69, Cl. 9-6.
Lively, David H.: *See*—
Gorman, Marvin; Haney, Michael E., Jr.; Lively, David H.; and Davenport, James D.,3,476,648.
Lively, Earl W., Jr. Protective cover for injector-type safety razor head. 3,419,959, 1-7-69, Cl. 30-90.
Liver Technology Inc.: *See*—
Zemlin, John C., 3,474,075.
Liverance, Howard G.: *See*—
Wood, Jack E.; and Liverance, Howard G.,3,474,922.
Liveright, Michael A.: *See*—
Cameron, Scott H.; and Liveright, Michael A.,3,449,516.
Livezey, William G.: *See*—
Christenson, Howard W.; and Livezey, William G.,3,421,596.
Livezey, William G., to General Motors Corporation. Power train. 3,425,296, 2-4-69, Cl. 74-720.5
Livezey, William G., to General Motors Corporation. Input-split-power, output-split-power, compound- split-power, power train. 3,470,769, 10-7-69, Cl. 74-720.5
Livingston, Douglas J., to Harowe Servo Controls, Inc. Tachometer-generator with ferrite rotor core. 3,486,054, 12-23-69, Cl. 310-171.
Livingston Electronic Corporation: *See*—
Meyers, William F.; and Simmons, John W., 3,423,242.
Livingston, Emmett S., to Warner & Swasey Company, The, mesne. Textile drafting system. 3,479,700, 11-25-69, Cl. 19-260.
Livingston, George Turner: *See*—
Dunn, Alexander; and Livingston, George Turner,3,450,401.
Dunn, Alexander; Livingston, George Turner; and Corr, Albert J.,3,466,429.
Livingston, James D.: *See*—
Alden, Thomas H.; and Livingston, James D.,3,448,062.
Livingston, Leslie D.; Rowland, John K.; and Crespin, George T. F., to Shell Oil Company. Continuous flash-point recording. 3,440,863, 4-29-69, Cl. 73-36.
Livingston, Malcolm R., to Celanese Corporation. Effect fabrics. 3,435,855, 4-1-69, Cl. 139-1.
Livingston, Malcolm R.; and Frate, Roland, to Celanese Corporation. Apparatus and method for producing a non-woven fabric. 3,422,510, 1-21-69, Cl. 28-1.
Livingston, Richard J. Safety device for automatic washers and the like. 3,466,006, 9-9-69, Cl. 251-129.
Livingston, William L.: *See*—
Blackett, James C.; Flagg, Raymond P.; Livingston, William L.; and Ritchart, Stuart T.,3,421,536.
Livingstone, Stanley, to EVADUR Products, Inc. Dye tube. 3,448,597, 6-10-69, Cl. 68-198.
Livote, Nicholas A.: *See*—
Fieldgate, Ivan O.; and Livote, Nicholas A.,3,454,204.
Livsey, Walter Oldham; and Young, Alexander Gillies, to English Electric Company Limited, The. Nuclear reactor having a concrete pressure vessel. 3,470,066, 9-30-69, Cl. 176-60.
Livshits, Abram Lazarevich: *See*—
Gromov, Anatoly Pavlovich; Lukasheva, Evgenia Nikolaevna; Glazkov, Anatoly Vasilievich; Livshits, Abram Lazarevich; Pozhalkin, Vladimir Vasilievich; Polotsky, Vadim Evgenievich; and Scherbak, Mikhail Venediktovich,3,472,993.

Livshits, Abram Lazarevich; Aronov, Anatoly Lzrailevich; Kravets, Arkady Timofeevich; and Sosenko, Alexandr Borisovich, to Experimentalny Nauchnoilssledovatelsky Institute Metallorezhvshchikh Stankov. Apparatus for electroerosion machining of workpieces by multiple spaced electrodes. 3,467,807, 9-16-69, Cl. 219-69.

Livshits, Abram Lazarevich; Rogachev, Ivan Sergeevich; Sosenko, Alexandr Borisovich; and Benin, Vladimir Lvovich, to Experimentalny Nauchno-Issledovatelsky Institute Metallorezhvshchikh Stankov. Method of low frequency electric impulse metal working and generators for producing impulses needed to accomplish the same method. 3,430,025, 2-25-69, Cl. 219-69.

Liwski, Piotr P. M.: *See—*
Ford, Floyd E.; Liwski, Piotr P. M.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,447,059.

Lizarralde, Jose M. Television receiver sets. 3,431,463, 3-4-69, Cl. 315-127.

Lizee, leo Joseph, to Angeles Metal Trim Company. Support track for dry wall construction. 3,481,090, 12-2-69, Cl. 52-241.

Lizza, Albert J., to United States of America, Army. Firearm ejector. 3,421,242, 1-14-69, Cl. 42-25.

Ljung, Torsten Nicholaus. Method and apparatus for synchronizing the movements of a plurality of individually driven power devices. 3,458,788, 7-29-69, Cl. 318-74.

Ljungberg, Ture Anders. Device for the accurate measurement of large distances with an unsupported flexible measuring tape. 3,432,930, 3-18-69, Cl. 33-137.

Ljungdell, Stig Helge Lennart; Uvelius, Karl-Birger; and Berntson, Karl-Erik, to Aktiebolaget Addo. Electric resistance matrixes for code conversion. 3,487,268, 12-30-69, Cl. 371-101.

Ljungholm, Ake Eskil: *See—*
Lilja, John Allan; and Ljungholm, Ake Eskil,3,471,902.

Ljungstrom, Olle: *See—*
Eckered, Thomas Harald; Sviden, Ove; and Ljungstrom, Olle,3,478,836.

Ljutsin, Ilya Samuilovich: *See—*
Bromberg, Boris Moisfevich; Gauzner, Moisei Yakovlevich; Ljutsin, Ilya Samuilovich; and Nadel, Moisei Simonovich,3,435,714.

LKB-Produkter AB: *See—*
Brandt, Gunnar Walter, 3,465,957.
Donne, Werner, 3,426,194.
Ryhage, Ragnar Erik, 3,430,040.
Stalberg, Nils G., 3,435,239.
Wadso, Bertil Ingemar, 3,477,820.

L & L Laboratories: *See—*
Blount, Lester L.; and Thomas, Leonard L., 3,472,238.

L & L Manufacturing Company: *See—*
Campbell, Vernon R., 3,438,655.
Campbell, Vernon R., 3,453,009.

Llantada, Alfredo. Doll's head with illuminable nose and a whistle. 3,457,672, 7-29-69, Cl. 46-228.

Llewellyn, Peter M.: *See—*
Gielow, David E.; and Llewellyn, Peter M.,3,446,957.
Littlejohn, Duane P.; and Llewellyn, Peter M.,3,445,649.

Llewellyn, Peter M., to Varian Associates. Gas inlet system for gas analyzers and gas analyzing system employing same. 3,421,292, 1-14-69, Cl. 55-158.

Llewellyn, Peter M., to Varian Associates. Gas analyzer inlet system for gaseous state materials. 3,455,092, 7-15-69, Cl. 55-158.

Llewellyn, Peter M., to Varian Associates. Ion cyclotron double resonance spectrometer employ- ing a series connection of the irradiating and observing RF sources to the cell. 3,475,605, 10-28-69, Cl. 250-41.9

Llewellyn, Peter M.; and Littlejohn, Duane P., to Varian Associates. Staged gas inlet system for gas analyzers and gas analyzing system for employing same. 3,429,105, 2-25-69, Cl. 55-158.

Llewellyn, Peter M.; and Littlejohn, Duane P., to Varian Associates. Gas analyzer system employing a gas chromatograph and a mass spectrometer with a gas switch therebetween. 3,471,692, 10-7-69, Cl. 250-41.9

Llewellyn, Thomas E. Magnetic belt assembly for oil filter cartridge. 3,460,679, 8-12-69, Cl. 210-222.

Llewellyn, Thomas E. Variable thrust rocket engine. 3,478,965, 11-18-69, Cl. 239-265.25

Llewelyn, Geirionydd; and Ubank, Raymond George, to Bristol Siddeley Engines Limited. Refractory metal articles. 3,432,280, 3-11-69, Cl. 29-197.

Llewelyn, Geirionydd; and Ubank, Raymond George, to Bristol Siddeley Engines Limited. Method of producing refractory metal articles. 3,446,655, 5-27-69, Cl. 117-129.

L.L.G., Lee's, Inc.:*See—*
Hansen, Lee R., 3,471,664.

Llop, Helenio: *See—*
Baton, Jean Pierre; and Llop, Helenio,3,477,790.

Llouguet, Gabrielle Jeanne. Food products produced by electrophoresis of embryos and placental cotyledons. 3,441,415, 4-29-69, Cl. 99-7.

Lloyd, Ambrose T. Device for hanging clothes and the like on an ironing board. 3,435,957, 4-1-69, Cl. 211-86.

Lloyd, Arnold; and Newson, Exeter Robert, to St. Joseph Lead Company, mesne. Joining of dispersion strengthened lead. 3,439,411, 4-22-69, Cl. 29-499.

Lloyd, Arthur Leslie: *See—*
Marshall, David; and Lloyd, Arthur Leslie,3,449,909.

Lloyd, Billy E.; Ungar, Israel S.; and Krumel, Richard R., to Allied Chemical Corporation. Surface sheets impregnated with butylated melamine-formaldehyde resin. 3,455,733, 7-15-69, Cl. 117-155.

Lloyd, Clayton T. Generation of gas at high pressures. 3,426,545, 2-11-69, Cl. 62-45.

Lloyd, Dewi Gerwyn; and Payne, John, to Monsanto Chemicals Limited. Apparatus determining modular properties of an elastomer and non-destructive test method. 3,447,365, 6-3-69, Cl. 73-101.

Lloyd Dynamowerke G.m.b.H.: *See—*
Beyersdorf, Hartwig; and Bering, Gerhard, 3,432,706.
Beyersdorf, Hartwig; and Bering, Gerhard, 3,435,267.
Beyersdorf, Hartwig; and Bering, Gerhard, 3,445,691.
Beyersdorf, Hartwig; and Bering, Gerhard, 3,469,134.

Lloyd, Edward C., to United States of America, Commerce. Double piston gage. 3,464,256, 9-2-69, Cl. 73-4.

Lloyd, Harold B. Apparatus for the internal medication of animals. 3,422,814, 1-21-69, Cl. 128-245.

Lloyd, Harold. Scaffold ledger support. 3,468,399, 9-23-69, Cl. 182-229.

Lloyd, John: *See—*
Sugg, Basil R.; and Lloyd, John,3,438,372.

Lloyd, Julius E.: *See—*
Olliff, Martin T., Jr.; Lloyd, Julius E.; and Williams, Charles F.,3,436,295.

Lloyd, Milton H.; and Haire, Richard G., to United States of America, Atomic Energy Commission. Process for preparing plutonia aquasols. 3,461,076, 8-12-69, Cl. 252-301.1

Lloyd, Neil E., to Celanese Corporation. Bulking filamentary strand by false twisting. 3,439,485, 4-22-69, Cl. 57-34.

Lloyd, Neil E.: *See—*
Price, Billy Ray; St. Pierre, Richard Ernest; and Lloyd, Neil E.,3,477,445.

Lloyd, Richard H.: *See—*
Sawyer, Andrew H.; Dobbins, Mark; and Lloyd, Richard H.,3,482,505.

Lloyd, Robert H. F.: *See—*
Domenico, Robert J.; and Lloyd, Robert H. F.,3,460,010.

Lloyd, Robert H.F., to International Business Machines Corporation. Method for simultaneously forming a buried layer and surface connection in semiconductor devices. 3,479,233, 11-18-69, Cl. 148-174.

Lloyd, Roger A., to United States of America, Agriculture. Apparatus for impregnating and chemically converting cellulose-containing materials. 3,446,701, 5-27-69, Cl. 162-237.

Lloyd, Roger V., to Pittsburgh Activated Carbon Company. Removing contaminants from cigarette smoke. 3,424,168, 1-28-69, Cl. 131-10.9

Lloyd, Ronald: *See—*
Patchell, Albert George; Lloyd, Ronald; and Stephenson, Arthur Ripon,3,441,638.

Lloyd, Sheldon G., to Fisher Governor Company. Piezoelectric transducer. 3,456,669, 7-22-69, Cl. 137-84.

Lloyd, Wayne B., to Westinghouse Electric Corporation. Manipulator apparatus. 3,422,965, 1-21-69, Cl. 214-1.

Lloyd, Wayne B., to Westinghouse Electric Corporation. Hydraulic undersea manipulator apparatus. 3,440,825, 4-29-69, Cl. 61-69.

Lloyd, William A.; and Sweet, Richard G., to Varian Associates. Graphic recorder apparatus having means for printing an elapsed time code on the recording. 3,454,953, 7-8-69, Cl. 346-23.

Lloyd, William A.: *See—*
Hackley, Thomas H.; and Lloyd, William A.,3,465,359.

Lloyd, William G., to Lummus Company, The. Oxidation of aromatic compounds. 3,441,617, 4-29-69, Cl. 260-621.

Lloyd, William Gilbert, to Lummus Company, The. Oxidation of olefinic compounds. 3,475,461, 10-28-69, Cl. 260-347.8

L. M. & L. Corporation: *See—*
Peterson, Arnold G., 3,461,733.

L.N.B. Company: *See—*
Bristow, Barney C., 3,464,632.
Bristow, Barney C., 3,486,700.

Lo Casale, Thomas Michael, to Sperry Rand Corporation. Two phase parametron system. 3,437,830, 4-8-69, Cl. 307-88.

Lo Duca, Thomas S. Keyboard organization. 3,447,414, 6-3-69, Cl. 84-436.

Lo Presti, Roy F.; and Ogden, Charles T., to Conco Inc., mesne. Conduit cleaning apparatus. 3,451,090, 6-24-69, Cl. 15-104.3

Lo Presti, Samuel J.; and Mohney, Wilfred F., to United States Steel Corporation. Device for aligning door-handling mechanism with a door. 3,451,898, 6-24-69, Cl. 202-248.

Lo Rubbio, Salvatore; and Pagliarulo, Garmine. Safety latch control means for automobile hoods. 3,463,529, 8-26-69, Cl. 292-106.

Lobach, Mark Iosifovich: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexan-

drovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Lobash, Floyd: *See—*
Hasten, Mark; and Lobash, Floyd,3,464,086.

Lobato, Emmanuel J.: *See—*
Bua, William J., 3,437,257.

Lobb Humidifier Co.: *See—*
Lobb, Orville J., 3,481,588.

Lobb, James R.: *See—*
Boyd, Joe M.; Grandio, Philip, Jr.; and Lobb, James R.,3,438,741.

Lobb, Orville J., to Lobb Humidifier Co. Humidifier. 3,481,588, 12-2-69, Cl. 261-2.

Lobbe, Armin; and Wengrzik, Michael, to Gewerkschaft Eisenhutte Westfalia. Mining planer. 3,445,138, 5-20-69, Cl. 299-34.

Lobbecke, Wilhelm F.: *See—*
Haberkorn, Joseph A. Erich; and Lobbecke, Wilhelm F.,3,451,624.

Lobelle, Marcel J. O.; and Gregory, John, to M. L. Aviation Company, Limited. Airmen's helmets. 3,438,060, 4-15-69, Cl. 2-6.

Lobelle, Marcel Jules Odilon, deceased; Leonard, Paul Derrick; and Hypher, Noel Charles; executors, to M. L. Aviation Company Limited. Helmets. 3,473,166, 10-21-69, Cl. 2-6.

Loboda, Wesley J.: *See—*
Hochman, Jack M.; and Loboda, Wesley J.,3,479,146.

Lobur, Walter, to Elox Inc., mesne. Variable velocity servo control circuit for electrical discharge machining apparatus. 3,435,176, 3-25-69, Cl. 219-69.

Lobur, Walter, to Elox Corporation. High duty-cycle E. D. M. circuitry. 3,473,086, 10-14-69, Cl. 315-241.

Locanthi, Bart N., to Lansing, James B., Sound, Inc. Multi-stage, direct-coupled transistor amplifier having complementary symmetry. 3,428,908, 2-18-69, Cl. 330-13.

Locascio, Russell J.: *See—*
Body, William K.; Locascio, Russell J.; Rice, Harold W.; and Scott, Douglas R.,3,442,448.

Locatelli, Giovanni, to Gebruder Buhler AG. Device for transferring work supporting rods between endless conveyors. 3,472,354, 10-14-69, Cl. 198-25.

Locati, Norman C., to Omark Industries, Inc. Self-tensioning chain devices. 3,457,970, 7-29-69, Cl. 143-32.

Locey, Mark M.: *See—*
Lindsey, William B.; and Locey, Mark M.,3,455,774.

Lochbuhler, Udo: *See—*
Laumen, Heinrich; Steinbrech, Hermann; and Lochbuhler, Udo,3,460,227.

Locheed, Edward W., Jr.; and Sheffield, Herman E., to Mandrel Industries, Inc. Apparatus for controlling the gain of binary gain ranging amplifiers. 3,464,022, 8-26-69, Cl. 330-144.

Lochen, R. L.: *See—*
Hensley, Arthur J., 3,432,893.

Locher, Edmund G.; Wyler, Eugen; and Nolting, Hermann. Sprayable composition for the application to the fur of animals. 3,445,565, 5-20-69, Cl. 424-46.

Lochner, Horst P.; and Dersin, Hans Jurgen, to Siemens Aktiengesellschaft. Method of epitaxially growing layers of semiconducting compounds. 3,461,004, 8-12-69, Cl. 148-175.

Lochner, Horst-Paul: *See—*
Dersin, Hensjurgen; and Lochner, Horst-Paul,3,480,472.

Lock Cap Corporation: *See—*
Mihalich, Donald L., 3,456,463.

Lock, Everett H.: *See—*
Eckel, John E.; and Lock, Everett H.,3,454,117.

Lock Inc.: *See—*
Gray, Raymond K.; and Wolniak, Stanley C., 3,438,484.

Lock, Joseph H., to Mead Corporation, The. Panel interlocking arrangement. 3,432,085, 3-11-69, Cl. 229-35.

Lock Products Co.: *See—*
Sutter, Ormond S., 3,456,971.

Lock, Stanley Anthony, to British Aircraft Corporation (Operating) Limited. Windshield for supersonic aircraft. 3,477,667, 11-11-69, Cl. 244-121.

Lockard, Joseph Larue: *See—*
Feeser, William Coover; Bosland, Cornelius William; Lockard, Joseph Larue; and Mummey, Dale Brice,3,430,183.

Locke, Charles H., to International Business Machines Corporation. Multiple outlet valve. 3,476,152, 11-4-69, Cl. 137-625.48

Locke, Charles H.; and Santillo, George R., Jr., to International Business Machines Corporation. Processing system for handling articles supported on holders. 3,421,638, 1-14-69, Cl. 214-6.

Locke, Joseph K.: *See—*
Webster, Milo E.; and Locke, Joseph K.,3,430,622.

Locke, Stanley; Sherman, Harold; and Wahl, John S., to Schlumberger Technology Corporation. Two neutron detector earth formation porosity logging technique. 3,483,376, 12-9-69, Cl. 250-83.1

Locke Steel Chain Company, The: *See—*
Glendenning, Don M., 3,436,906.

Locke, Warren J., Jr., to Esso Research and Engineering Company. Fluidized bed production of iron. 3,428,446, 2-18-69, Cl. 75-26.

Lockenvitz, Arthur; Longwell, Charles R.; and Pietsch, Roy, to United States of America, Air Force. Laser system for generating coherent light. 3,452,296, 6-24-69, Cl. 331-94.5

Locker, Arthur Leon. Combination helmet and locking attachment. 3,436,936, 4-8-69, Cl. 70-59.

Locker, Arthur Leon. Heat sensitive triggering apparatus. 3,453,404, 7-1-69, Cl. 200-61.22

Locker, Howard W.: *See—*
Dewey, William R.; and Locker, Howard W.,3,448,917.

Lockett, Donald E.: *See—*
Barbeau, Raymond A.; Bradford, Rex C.; Fraim, Norman R.; and Lockett, Donald E.,3,449,756.

Lockett, George Edward: *See—*
Rennie, Compton Alexander; Lockett, George Edward; and Acciarri, Pietro,3,427,220.

Lockformer Company, The: *See—*
Gale, Leo R.; and Remack, Alfred R., 3,420,142.

Lockhart, James A., Jr., to Burroughs Corporation. Decoder circuit using magnetic core elements and driving a decimal display device. 3,449,740, 6-10-69, Cl. 340-347.

Lockheed Aircraft Corporation: *See—*
Aarnaes, Morten H. K., 3,451,646.
Adams, Thomas E.; and Woolf, Raymond F., 3,448,663.
Adams, Victor J., Jr., 3,478,353.
Blunschi, Willard S., Sr.; and Chapman, Augustus H., 3,424,411.
Brown, Albert D., 3,457,545.
Brown, Alvin E., 3,420,102.
Campbell, David H., 3,477,455.
Chandler, Joseph H., 3,480,728.
Chapsky, Jacob, 3,422,441.
Clark, Edmund G., 3,471,166.
Cook, Nathan H.; and Vaughn, Robert L., 3,424,054.
Cornish, Joseph J., III, 3,480,234.
Crenshaw, Richard D.; and Saddoris, Ronald S., 3,420,090.
Culshaw, William; Dahlquist, John A.; and Peterson, Don G., 3,463,924.
Dawson, Charles A., 3,456,316.
De Marchi, Vincent S.; Neiman, Alfred S.; and Wigton, Henry F., 3,453,104.
Dolby, James L.; and Resnikoff, Howard L., 3,439,341.
Fulton, Forrest F., Jr., 3,456,195.
Gaura, Robert E., 3,486,517.
Gillard, Calvin W., 3,438,700.
Green, Philip S.; and Brown, Alvin E., 3,475,551.
Gruenstein, Rolf J., 3,451,131.
Hancock, John P., 3,446,223.
Hand, Ross L., Jr., 3,480,779.
Helmus, Sydney S., 3,485,056.
Hills, James F., 3,444,775.
Holt, Arthur P., Jr., 3,449,745.
Holt, Arthur P., Jr.; and Lide, Edward N., 3,475,686.
Hood, R. T., Jr.; Ruger, George A.; and Messick, Thomas M., 3,437,280.
Karlak, Robert F., 3,446,643.
Kaufman, Edwin N., 3,461,416.
Keenan, Peter P., 3,457,490.
Larkin, Artemas M., 3,460,857.
Lilker, William M., 3,427,197.
Lucchino, Joseph A.; and Bierbower, John B., 3,480,248.
Maithonis, William C.; and Barlow, Stephen A., 3,448,339.
McCall, Loyd H., Jr., 3,482,809.
Mohrman, Robert H., 3,455,362.
Movich, Richard C.; and Topp, Ronald L., 3,479,866.
Nelson, Stanley O., 3,450,221.
Painter, Giles W.; and Parry, Hugh J., 3,420,098.
Painter, Giles W.; and Parry, Hugh J., 3,434,060.
Pusateri, Anthony J., Jr., 3,434,096.
Ransil, Raymond J.; Lipanovich, Marko I.; and Alford, Charles H., 3,457,541.
Regas, Andrew N., 3,438,418.
Roesky, Ralph R.; Gentry, Larry L.; and Hopkins, John W., 3,482,410.
Rowe, Harbert D., 3,471,195.
Siera, Mark M.; and Davis, Richard G., 3,454,727.
Smith, Richard L., 3,446,650.
Stucki, Frank F., 3,432,435.
Thompson, Perry J., 3,443,453.
Thornburg, Francis L.; and Turnley, George E., Jr., 3,446,177.
Tygart, William H., 3,426,150.
Tygart, Willian H., 3,426,151.
Unkefer, Robert J., 3,480,140.
Wisniewski, Jacob H., 3,457,395.
Wong, Harold Y., 3,484,683.

Locking Hinge & Hardware Manufacturing, Inc.: *See—*
Wright, Donald L., 3,448,486.

Lockrem, Quentin Matthew. Wheel balancer. 3,420,108, 1-7-69, Cl. 73-480.

Lockshaw, William Paul, to International Telephone and Telegraph Corporation. Sweep generator having a field-effect transistor between the timing and discharge circuits. 3,447,099, 5-27-69, Cl. 331-111.
Lockspike Limited: *See—*
Astley, Harold Trevor; and Jones, Alfred Illtyd Webber, 3,427,700.
Jones, Alfred Illtyd Webber; and Brown, Trevor Paul, 3,463,394.
Sanson, Leopold Stewart, 3,460,756.
Lockwood Corporation: *See—*
Neufeld, Edwin C., Jr., 3,439,720.
Schneider, Fred W.; and Morris, Willard E., 3,442,379.
Lockwood, Leon J. Ice condition detecting device. 3,422,677, 1-21-69, Cl. 73-336.5
Lockwood, Leon J., to Holley Carburetor Company. Ice condition detecting device. 3,434,347, 3-25-69, Cl. 73-336.
Lockwood, Leona; and Tolk, Harriet. Brassiere. 3,465,754, 9-9-69, Cl. 128-425.
Lockwood, Peter: *See—*
Pentith, Gerald R. O.; and Lockwood, Peter,3,467,436.
Lockwood, Raymond M.: *See—*
Bennett, Edward L.; Lockwood, Raymond M.; and Wichers, Henry W.,3,485,487.
Lockwood, Raymond M.; Bennett, Edward L.; and Graber, David A., to Fairchild Hiller Corporation. Pulse jet engine. 3,462,955, 8-26-69, Cl. 60-249.
Lockwood, Robert Addis, to North American Rockwell Corporation. Portable thermoelectric generator. 3,428,496, 2-18-69, Cl. 136-208.
Lockwood Technical, Inc.: *See—*
Guthrie, John W., 3,420,208.
Spencer, Robert A., 3,443,059.
Lockwood, Warren H. Nesting and stacking utility bin. 3,478,892, 11-18-69, Cl. 211-126.
Loctite Corporation: *See—*
Gorman, Jeremy W.; and Toback, Alex S., 3,425,988.
Nordlander, Birger W., 3,435,012.
Pearce, Malcolm B., Jr., 3,469,490.
Pearce, Malcolm B., Jr., 3,472,301.
Lodal, Inc.: *See—*
Brisson, John R., 3,451,571.
Loddenkemper, Franz Josef; and Tenthoff, Aloys, to Westfalia Separator A.G. Centrifugal separator apparatus. 3,445,062, 5-20-69, Cl. 233-29.
Lode, Tenny D., to Rosemount Engineering Company. Instrument bearing. 3,436,131, 4-1-69, Cl. 308-10.
Lode, Tenny D., to Rosemount Engineering Company. Common power supply resistance bridge system providing excitation, individual bridge sensor resistance, and signal output terminals all referenced to a common patential. 3,453,536, 7-1-69, Cl. 324-62.
Lode, Tenny D., to Rosemount Engineering Company. Radio direction measurement system and method. 3,453,627, 7-1-69, Cl. 343-121.
Lode, Tenny D., to Rosemount Engineering Company. Electromagnetic wave retarding structure. 3,465,361, 9-2-69, Cl. 343-911.
Lode, Tenny D., to Rosemount Engineering Company. Magnetic bearing. 3,476,448, 11-4-69, Cl. 308-10.
Lode, Tenny D., to Rosemount Engineering Company. Superregenerative circuit with switch means providing reference and measuring states. 3,484,692, 12-16-69, Cl. 324-123.
Lode, Tenny, to Rosemount Engineering Company. Device for comparing magnitudes of electrical signals of different frequencies. 3,453,543, 7-1-69, Cl. 324-98.
Loder, Merle R.: *See—*
McAlister, Iris J.; McAlister, Jimmie D.; and Loder, Merle R.,3,420,325.
Loderhose, Ernst: *See—*
Schmid, Helmut; Luck, Wolfhard; Loderhose, Ernst; Zinz, Bruno; and Komarek, Ernst,3,482,925.
Lodge, Alvin, to American Sterilizer Company. Method of sterilizing utilizing steam. 3,436,170, 4-1-69, Cl. 21-56.
Lodge, James Alec: *See—*
Mayo, Bernard Joseph; and Lodge, James Alec,3,449,624.
Lodge, James R.; and Pauletti, Anthony, to Minnesota Mining and Manufacturing Company. Inorganic flake material. 3,475,191, 10-28-69, Cl. 106-288.
Lodge-Cottrell Limited: *See—*
Darby, Kenneth, 3,461,682.
Lodi, Luciano: *See—*
Vecchio, Martino; Cammarata, Italo; and Lodi, Luciano,3,442,962.
Vecchio, Martino; Lodi, Luciano; Fattore, Vittorio; and Cammarata, Italo,3,476,817.
Lodige, Alois. Supporting roller arrangement for a rack, particularly a large-capacity rack. 3,465,864, 9-9-69, Cl. 193-35.
Lodige, Fritz: *See—*
Lodige, Wilhelm; Lodige, Fritz; and Lucke, Josef,3,445,090.
Lodige, Wilhelm; Lodige, Fritz; and Lucke, Josef,3,466,015.
Lodige, Wilhelm; Lodige, Fritz; and Lucke, Josef. Screw mixer. 3,445,090, 5-20-69, Cl. 259-2.
Lodige, Wilhelm; Lodige, Fritz; and Lucke, Josef. Process of and apparatus for wetting bulk materials. 3,466,015, 9-9-69, Cl. 259-9.
Lodjic, Carl L.; and McGregor, Donald T., to Carlodge Corporation. Automatic brake slack adjuster. 3,428,154, 2-18-69, Cl. 188-196.
Lodjic, Carl L.: *See—*
Mc Gregor, Donald T.; and Lodjic, Carl L.,3,482,663.
LoDolce, Samuel M.: *See—*
Miller, Alfred G.; and LoDolce, Samuel M.,3,468,741.
Lodrick, Lawrence Edward. Collapsible poles. 3,451,182, 6-24-69, Cl. 52-632.
Lodrini, Albert C. Ring clamp. 3,460,355, 8-12-69, Cl. 63-15.
Lodrini, Albert C. Device for narrowing diameter of finger ring. 3,460,356, 8-12-69, Cl. 63-15.6
Lodrini, Albert C. Device for narrowing the diameter of a finger ring. 3,483,718, 12-16-69, Cl. 63-15.6
Lodwick, Ross W.: *See—*
Erwin, Kenneth L.; and Lodwick, Ross W.,3,479,480.
Erwin, Kenneth L.; and Lodwick, Ross W.,3,479,482.
Loe, Winston C., to Leonco, Inc. Flow diverting device for gas chromatographs. 3,473,557, 10-21-69, Cl. 137-343.
Loeb, Alfred M., to Weston Instruments, Inc. Dynamic loading system. 3,473,371, 10-21-69, Cl. 73-91.
Loeb, Julien M., to Compagnie Generale de Geophysique. Gravity meter of the vibrating wire type. 3,483,753, 12-16-69, Cl. 73-382.
Loeb, Lawrence A. Foldable seat. 3,441,312, 4-29-69, Cl. 297-374.
Loeb, Sidney; Wasilewski, Stanley; Selover, Edward; and Balla, Andre, to University of California, The Regents of the. Desalination assembly and its method of manufacture. 3,446,359, 5-27-69, Cl. 210-490.
Loeb, William E.: *See—*
Tittmann, Frederick R.; Goldin, Michael M.; and Loeb, William E.,3,429,739.
Loebe, Wolfram, to Siemens Aktiengesellschaft. Continuously evacuated corpuscular-ray apparatus, such as electron microscope, having a cryogenically cooled specimen cartridge. 3,444,365, 5-13-69, Cl. 250-49.5
Loebel, Frederick A., to Aqua-Chem, Inc. Multistage flash still with vapor compression plant. 3,433,717, 3-18-69, Cl. 202-173.
Loebl, Herbert, to Joyce, Loebl, & Company Limited. Chemical sampling apparatus. 3,484,206, 12-16-69, Cl. 23-253.
Loebner, Egon E.; Diesel, Thomas J.; and Bube, Richard H., to Hewlett-Packard Company. Photoconductor material and apparatus. 3,466,509, 9-9-69, Cl. 317-234.
Loechner, John T.: *See—*
Ballard, Robert L.; Edgell, James E.; Handke, Patrick M.; and Loechner, John T.,3,438,130.
Loeffel, Hansrole, to Ciba Limited. Photographic materials for the silver dyestuff bleaching process. 3,443,953, 5-13-69, Cl. 96-99.
Loeffel, Hansrolf: *See—*
Montmollin, Ren'e De; Loeffel, Hansrolf; Oetiker, Alfred; and Buehler, Arthur,3,444,156.
Loeffler, Herbert H., to Nathans, Ruth F. Umbrella. 3,464,431, 9-2-69, Cl. 135-20.
Loeffler, Herbert H., to Pro-Tee-Off Company. Practice golf driving device. 3,479,878, 11-25-69, Cl. 73-379.
Loeffler, John Edward, Jr., to Diamond Alkali Company. Flame chamber and quenching chamber apparatus. 3,485,590, 12-23-69, Cl. 23-277.
Loeffler, Karl H., to International Business Machines Corporation. Electron beam recorder. 3,454,821, 7-8-69, Cl. 315-18.
Loeffler, Karl H., to International Business Machines Corporation. Aperture assembly for electron beam device. 3,480,817, 11-25-69, Cl. 313-82.
Loeffler, Wolfgang: *See—*
Sigg, Hans-Peter; and Loeffler, Wolfgang,3,428,526.
Loehlein, Harold J.; and Curran, Edward E., to Reynolds Metals Company. Meshing gear apparatus for making heat exchangers. 3,462,990, 8-26-69, Cl. 72-186.
Loehr, Clifford E.: *See—*
Benner, Floyd E., Jr.; and Loehr, Clifford E.,3,467,498.
Darr, Donald E.; Edwards, George Byron; and Loehr, Clifford E.,3,475,124.
Darr, Donald E.; Leiser, Roger S.; Loehr, Clifford E.; and Richardson, Kenneth W.,3,423,186.
Loepfe, Erich. Weft controller. 3,433,273, 3-18-69, Cl. 139-371.
Loepfe, Erich, to Aktiengesellschaft Gebrueder Loepfe. Flyer head cap for rovings. 3,447,303, 6-3-69, Cl. 57-115.
Loepfe, Erich: *See—*
Stutz, Hansruedi S.; Loepfe, Erich; and Hranitzky, Wilhelm M.,3,485,964.
Loesch, Buchanan, to United States of America, Army, mesne. Frequency modulated pulse transmission and reception devices utilizing electro-optical transduction. 3,430,240, 2-25-69, Cl. 343-17.2
Loesch, Buchanan, to United States of America, Army, mesne. Frequency modulated wave pulse transmission and reception. 3,430,241, 2-25-69, Cl. 343-17.2
Loeschen, Herbert C.: *See—*
Wiley, Carl A.; Canaday, James A.; Loeschen, Herbert C.; and Gaston, James B.,3,450,869.

Loescher, Friedrich A., to Lenco A.G. Record cleaning device. 3,486,757, 12r30-69, Cl. 274-47.

Loeschner, Anthony; and Wolf, Robert A., to Motorola, Inc. Tape cartridge locking and ejector mechanism. 3,485,500, 12-23-69, Cl. 274-11.

Loev, Bernard, to Smith Kline & French Laboratories. The treatment of depression with imidazo[1,2-b]- as-triazines and compositions thereof. 3,422,194, 1-14-69, Cl. 424-249.

Loev, Bernard, to Smith, Kline & French Laboratories. 5,11-Dihydroindolo [3,2-c] [2,1]-benzothiazine -6,6-dioxide compounds. 3,427,311, 2-11-69, Cl. 260-243.

Loev, Bernard, to Smith Kline & French Laboratories. Spiro [naphthalene-2,2'-oxazolidine] compounds. 3,429,892, 2-25-69, Cl. 260-307.

Loev, Bernard, to Smith Kline & French Laboratories. Dioxadiazadispiro[4.2.4.2]tetradecane compounds. 3,431,272, 3-4-69, Cl. 260-307.

Loev, Bernard, to Smith Kline & French Laboratories. 1-Oxa-4-azaspiro[4.5]-6,9- decadiene compounds. 3,431,273, 3-4-69, Cl. 260-307.

Loev, Bernard, to Smith Kline & French Laboratories. (1,2-Dihydro-2-hydroxy-2-quinolinyl) urea compounds. 3,455,930, 7-15-69, Cl. 260-287.

Loev, Bernard, to Smith Kline & French Laboratories. N-aminoalkoxycarbostyrils. 3,455,931, 7-15-69, Cl. 260-288.

Loev, Bernard, to Smith Kline & French Laboratories. 2-Arylsulfonyliminoquinoline compounds. 3,455,932, 7-15-69, Cl. 260-288.

Loev, Bernard, to Smith Kline & French Laboratories. Spiro [1,3-dioxocycloalkane- quinoline] compounds. 3,455,934, 7-15-69, Cl. 260-289.

Loev, Bernard, to Smith Kline & French Laboratories. 4-[Carboxy (and carbo-lower alkoxy) phenyl]-1, 4-dihydropyridines. 3,455,945, 7-15-69, Cl. 260-295.5

Loev, Bernard, to Smith Kline & French Laboratories. 1,2,2α, 8β Tetrahydrocyclobuta [c] quinolines. 3,462,438, 8-19-69, Cl. 260-287.

Loev, Bernard, to Smith Kline & French Laboratories. Process for preparing α -nitrosulfonic acids. 3,480,636, 11-25-69, Cl. 260-293.4

Loev, Bernard, to Smith Kline & French Laboratories. Oxadiazaspiro [4.5] decane compounds. 3,481,942, 12-2-69, Cl. 260-294.7

Loev, Bernard; and Macko Edward, to Smith Kline & French Laboratories. Compositions and methods for producing sedative-tranquilizing activity with malonamdic acid ester. 3,462,535, 8-19-69, Cl. 424-309.

Loev, Bernard; and Tedeschi, Ralph E., to Smith Kline & French Laboratories. Compositions and methods for lowering blood pressure with 1,4-dihydropyridines. 3,441,648, 4-29-69, Cl. 424-263.

Loev, Bernard; and Wilson, James W., to Smith Kline & French Laboratories. 5-Carbamoylsulfamoyl-N-substituted- anthranilic acids and esters thereof. 3,454,562, 7-8-69, Cl. 260-239.6

Loev, Bernard; and Wilson, James W., to Smith Kline & French Laboratories. 4-(4-Chloro-3-sulfamoylphenyl)-1,4-dihydropyridines. 3,455,939, 7-15-69, Cl. 260-294.8

Loev, Bernard: *See—*
Goonewardene, Hilary F.; and Loev, Bernard,3,455,673.
Popoff, Ivan C.; and Loev, Bernard,3,462,453.

Loew, Gunther, 1/2 to Mobay Chemical Company, and 1/2 to Farbenfabriken Bayer Aktiengesellschaft. Preparation of cellular polyurethanes in the presence of triethylene diamine and a siloxane- oxyalkylene block copolymer. 3,471,465, 10-7-69, Cl. 260-2.5

Loewe, Hans: *See—*
Ludwig, Herbert,3,446,887.

Loewe, Heinz; Urbanietz, Josef; and Lammler, Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Carboxylic acid-N-methyl-piperazides and their utilization as anthelimintics. 3,484,524, 12-16-69, Cl. 424-250.

Loewe Opta AG: *See—*
Haas, Helmut, 3,420,964.

Loewe Opta G.m.b.H.: *See—*
Haas, Helmut, 3,453,381.
Schmidt, Walter, 3,446,951.
Schmidt, Walter, 3,484,597.

Loewenstern, Hugo, Jr. Remote controlled wheeled golf club carrier. 3,472,333, 10-14-69, Cl. 180-98.

Loewenstern, Stanley L., to Teleflex Incorporated. Motion transmitting remote control assembly. 3,429,197, 2-25-69, Cl. 74-502.

Loewenthal, Ariadne L.: *See—*
Hamrick, James G.; Lee, Milton O.; and Loewenthal, Ariadne L.,3,435,414.

Loewenthal, Henry J., to American Standard, Inc. Diverter valve. 3,476,150, 11-4-69, Cl. 137-625.11

Loewy, Albert T. Combination shoe rack and curtain hanger. 3,468,426, 9-23-69, Cl. 211-35.

Loewy Robertson Engineering Company Limited: *See—*
Pearson, William J., 3,464,645.

Loffelholz, Marco; Pasetti, Adolfo; and Sianesi, Dario, to Montecatini Edison S.p.A. Process for preparing compounds consisting only of carbon, fluorine and oxygen. 3,450,611, 6-17-69, Cl. 204-158.

Loffler, Beate Elisabeth: *See—*
Loffler, Karl Nikolaus,3,471,295.

Loffler, Josef; Rampp, Egon; and Schall, Hans, to Siemens Aktiengesellschaft. Device for depositing strips. 3,476,378, 11-4-69, Cl. 270-61.

Loffler, Karl Nikolaus, deceased0 (by Loffler, Beate Elisabeth0Laux, Monika, nee Loffler0Loffler, Klaus-Richard; legal heirs), to Agfa Aktiengesellschaft. Production of colored direct-positive images. 3,471,295, 10-7-69, Cl. 96-100.

Loffler, Klaus-Richard: *See—*
Loffler, Karl Nikolaus,3,471,295.

Loffler, Walther. Container for liquids and means for discharging liquids therefrom. 3,445,867, 5-27-69, Cl. 4-288.

Loffley, Hans: *See—*
Zeiser, Walter; Loffley, Hans; and Kolb, Otmar,3,450,841.

Lofgreen, Andrew F.; and Coggburn, Harley L. Refrigeration system. 3,470,707, 10-7-69, Cl. 62-196.

Lofgren, Ingemar, to Allmanna Svenska Elektriska Aktiebolaget. Stress measuring device. 3,469,440, 9-30-69, Cl. 73-88.5

Lofgren, Karl R., to Cocker Machine and Foundry Company. Method and apparatus for sizing yarns. 3,438,102, 4-15-69, Cl. 28-28.

Lofgren, William, to Aktiebolaget Parator. Hoisting apparatus for transport vehicles. 3,485,392, 12-23-69, Cl. 214-77.

Lofrisco, Leonard A.; de Meo, Attilio A.; and Walter, Gerard O., to Sperry Rand Corporation. Apparatus for controlling the automatic positioning of a driven member. 3,478,254, 11-11-69, Cl. 318-18.

Lofstrand, Warren A., to Sessions Clock Co., The. Connector for cam-actuated switch. 3,476,903, 11-4-69, Cl. 200-168.

Lofstrand, Warren A.; and Brugmann, Jurgen, to Consolidated Electronics Industries Corporation. Timer. 3,431,432, 3-4-69, Cl. 307-141.

Lofstrom, James E.: *See—*
Horwitz, Norman H., 3,461,293.

Lofthouse, Fred R.: *See—*
Beasley, Neil D.; Whitehurst, Gerald E.; Saletzki, Jacob S.; Lofthouse, Fred R.; and Weber Robert L.,3,452,610.

Loftus Engineering Corporation: *See—*
Augustine, Alfred; and Guthrie, James M., 3,437,326.
Shirley, William C.; and Corcoran, John F., 3,459,416.

Loftus, Robert M.: *See—*
Gallant, Reginald R.; and Loftus, Robert M.,3,476,312.

Logan, Carey and Rehag: *See—*
Rehag, Lawrence J., 3,463,364.

Logan, Charles H.: *See—*
Poor, John H.; and Logan, Charles H.,3,479,101.

Logan, David J.: *See—*
Gerber, Heinz Joseph; and Logan, David J.,3,473,009.
Gerber, Heinz Joseph; and Logan, David Jopson,3,422,325.

Logan, Douglas W.Pilot's log. 3,446,521, 5-27-69, Cl. 283-62.

Logan, Frank G., to United States of America, Navy. Alternating current line voltage regulator (LVR). 3,474,327, 10-21-69, Cl. 323-45.

Logan, Harold Raymond: *See—*
Werner, Frank Charles; and Logan, Harold Raymond,3,456,284.

Logan, John A.: *See—*
Ross, Nicholas V.; and Logan, John A.,3,485,985.

Logan, John C., to Norton Company. Plastic bonded rods. 3,481,896, 12-2-69, Cl. 260-38.

Logan, John L., to General Motors Corporation. Armature winding end turn banding and slot insulators. 3,483,413, 12-9-69, Cl. 310-271.

Logan, Jonathan, Inc.: *See—*
Mircoff, Alex, 3,425,374.
Willis, David M., 3,425,110.
Willis, David M., 3,433,432.

Logan, Lawrence J., Jr., to Hercules Incorporated. Vulcanization of elastomeric fibers. 3,453,357, 7-1-69, Cl. 264-236.

Logan, Lewis J. Welding head for a stud welding gun. 3,448,237, 6-3-69, Cl. 219-98.

Logan, Lloyd B. Sequencing device for displaying lighting. 3,421,049, 1-7-69, Cl. 315-211.

Logan, Mason A.: *See—*
Creasy, Fred K.; Horlacher, Robert L.; Logan, Mason A.; Smith, Larrabee M.; and Young, William Rae, Jr.,3,440,337.

Logan, Maurus C.: *See—*
O'Loughlin, Francis A.; and Logan, Maurus C.,3,427,852.

Logan, Ralph A.; and White, Harry G., to Bell Telephone Laboratories, Incorporated. Electroluminescent p-n junction device and preparation thereof. 3,470,038, 9-30-69, Cl. 148-171.

Logan, Richard W., to Federal Sign and Signal Corporation, mesne. Load handling apparatus. 3,433,459, 3-18-69, Cl. 254-139.1

Logan, Richard W., to Federal Sign and Signal Corporation. Aircraft service stand. 3,451,504, 6-24-69, Cl. 182-1.

Logan, Richard W., to Packers Development Corporation. Combined blade guard and depth gage for a portable radial saw. 3,468,350, 9a23-69, Cl. 143-43.
Logan, Russell H., to Texas Instruments, Incorporated. Conopulse radar. 3,460,140, 8-5-69, Cl. 343-16.
Logan, Warner C.: *See—*
Kull, Albert R.; and Logan, Warner C.,3,443,414.
Loge, Hans: *See—*
Hoffmeister, Erich; and Loge, Hans,3,426,429.
Loge, Hans, to Kaltenbach & Voigt. Portable holder for dental tools or the like. 3,475,817, 11-4-69, Cl. 32-26.
Loge, Hans; and Bareth, Erich, to Kaltenbach & Voigt. Transmission for surgical outfits or the like. 3,436,980, 4-8-69, Cl. 74-352.
Logemann, Heino: *See—*
Bruckmann, Paul; Logemann, Heino; and Suling, Carlhans,3,446,875.
Bruckmann, Paul-Gunther; Logemann, Heino; and Suling, Carlhans,3,468,977.
Logemann, Heino; Roos, Ernst; and Suling, Carlhans, to Farbenfabriken Bayer Aktiengesellschaft. Stabilized solutions of copolymers from acrylonitrile and vinylidene chloride. 3,436,364, 4-1-69, Cl. 260-32.6
Suling Carlhans; and Logemann, Heino,3,441,533.
Logemann, Johan D.: *See—*
Hovestreydt, Gerrit; Logemann, Johan D.; and Delcour, Kees,3,455,813.
Logemann, Willy: *See—*
Giraldi, Pier Nicola; Lauria, Francesco; Fojanesi, Alessandro; Nannini, Giuliano; and Logemann, Willy,3,458,533.
Lauria, Francesco; Giraldi, Pier Nicola; Francavilla, Pier Nicola; Nannini, Giuliano; and Logemann, Willy,3,452,085.
Logepwell, Donald Lyle; and Tipton, James Phillips, to General Electric Company. Dual reader control method and apparatus. 3,486,005, 12-23-69, Cl. 235-61.6
Logerot, Jean-Marie R., to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Beryllium products and method. 3,434,319, 3-25-69, Cl. 72-47.
Logerot, Rene Paul; and Alesi, Pierre Andre, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Devices for reducing the rear-end drag of jet engines. 3,439,504, 4-22-69, Cl. 60-271.
Logetronics, Inc.: *See—*
Knibiehly, Earle M., 3,434,225.
Knibiehly, Earle M., 3,463,073.
Logic Systems, Inc.: *See—*
Sterns, Robert B.; and McGuire, Richard, 3,466,535.
Logicon, Inc.: *See—*
King, Claude F.; Martin, Norman M.; Mellott, Robert N.; and Wolfe, Ramon E., 3,487,369.
Mellott, Robert N., 3,424,923.
Logistics Industries Corporation: *See—*
Goldman, Joseph, 3,421,679.
Goldman, Joseph, 3,445,051.
Logma Aktiebolag: *See—*
Jorgensen, Karl-Gunnar, 3,443,611.
Logomasini, James C., to Monsanto Company. Method of forming plastic articles having foamed cores. 3,449,477, 6-10-69, Cl. 264-45.
Logothetis, Andreas: *See—*
Otto, Ferdinand P.; and Logothetis, Andreas,3,445,386.
Logrippo, James, to Norristown Rug Manufacturing Company. Braided rug employing thermoplastic tubing. 3,421,405, 1-14-69, Cl. 87-6.
Logus, Anthony T., to Pettibone Mulliken Corporation. Selective steering with single valve. 3,446,307, 5-27-69, Cl. 180-79.2
Loh, Jack C.; and Norman, Robert S., to General Electric Company. Combustible gas detector using a corona discharge. 3,439,261, 4-15-69, Cl. 324-33.
Lohbauer, Kenneth R.: *See—*
Cryder, John R.; Field, Jesse L., Jr.; Lohbauer, Kenneth R.; and Scheidt, James E.,3,486,418.
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.
Lohbauer, Kenneth R., to Caterpillar Tractor Company. Pressure modulated brake valve. 3,423,136, 1-21-69, Cl. 303-54.
Lohest, Hans, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Heated galette. 3,435,171, 3-25-69, Cl. 219-10.61
Lohest, Hans: *See—*
Schippers, Heinz; Lohest, Hans; and de Ruig, Jans R.,3,445,073.
Lohman, Karl L. Underground utility cable or conduit terminal. 3,466,379, 9-9-69, Cl. 174-38.
Lohmann, Adolf W., to International Business Machines Corporation. Apparatus for exceeding the cutoff frequency of a band limited optical system. 3,421,809, 1-14-69, Cl. 350-162.
Lohmann, Adolf W., to International Business Machines Corporation. Fresnel correlation technique. 3,427,586, 2-11-69, Cl. 340-146.3
Lohmann, Adolf W., to International Business Machines Corporation. Optical character recognition. 3,437,824, 4-8-69, Cl. 250-219.
Lohmann Foods Corporation: *See—*
Hibbard, Schuyler M., 3,457,851.
Lohmeyer, W Carl. Foldable coaster and handle device for use with can-like containers. 3,443,829, 5-13-69, Cl. 294-32.
Lohnas, John D.; Bourdeau, Raymond D.; and Kalia, Kanwal K., to West Virginia Pulp and Paper Company. Preparation of coated paper having high gloss and high wet rub resistance. 3,442,685, 5-6-69, Cl. 117-65.2
Lohneis, Earl Rex, to Kearney & Trecker Corporation. Force transmitting and compensating device. 3,454,313, 7-8-69, Cl. 308-189.
Lohner, Erwin K.: *See—*
Sass, Andrew R.; and Lohner, Erwin K.,3,460,101.
Lohner, Kurt, Professor Dr.-Ing.: *See—*
Hartel, Gunter, 3,476,096.
Lohner, Louis A.; Middleton, William B.; and Richardson, Harry L., to Chemical Construction Corporation. Integral gas quencher for tilting furnaces. 3,471,138, 10-7-69, Cl. 266-16.
Lohninger, Wilhelm J., to United States of America, Army. Electromechanical fuze timer regulation. 3,434,424, 3-25-69, Cl. 102-70.2
Lohr & Bromkamp GmbH: *See—*
Aucktor, Erich, 3,475,924.
Devos, Gaston, 3,442,095.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, to Burger Eisenwerke Aktiengesellschaft. Cooking pan suitable for the preparation of dietetic and nondietetic foods. 3,432,642, 3-11-69, Cl. 219-439.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, to Burger Eisenwerke Aktiengesellschaft. Roasting and broiling apparatus. 3,435,754, 4-1-69, Cl. 99-341.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, to Burger Eisenwerke Aktiengesellschaft. Serial roasting apparatus with product turner. 3,435,755, 4-1-69, Cl. 99-424.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, to Burger Eisenwerke Aktiengesellschaft. Apparatus for the frying and roasting of comestibles. 3,450,027, 6-17-69, Cl. 99-423.
Lohr, Jerome J., to United States of America, National Aeronautics and Space Administration. Variable stiffness polymeric damper. 3,430,902, 3-4-69, Cl. 248-18.
Lohr, Manfred, to Hoesch Aktiengesellschaft. Self-leveling shock absorber. 3,450,235, 6-17-69, Cl. 188-88.
Lohr, Manfred: *See—*
Hoffmann, Hans-Jurgen; and Lohr, Manfred,3,469,661.
Lohr, Raymond J.; Hubiak, Walter; and Carver, Richard N., to Marx, Louis, & Co., Inc. Musical toys. 3,453,921, 7-8-69, Cl. 84-102.
Lohr, Thomas E., to General Motors Corporation. Power transmission. 3,421,390, 1-14-69, Cl. 74-801.
Lohrenz, Marold H., to Collins Radio Company. Tape transport servomechanism utilizing digital techniques. 3,454,960, 7-8-69, Cl. 242-184.
Lohrenz, Victor: *See—*
Wheeler, Donald J.; and Lohrenz, Victor,3,431,386.
Lohrer, Joseph Bernhard, to Crown Cork & Seal Company, Inc. Plastic closure with outside ring and inside tube for beer and beverages. 3,438,529, 4-15-69, Cl. 215-42.
Lohrmann, Dieter R., to United States of America, Army. Variable inductor. 3,422,383, 1-14-69, Cl. 336-15.
Lohrmann, Dieter R. Short-time melting fuse. 3,445,798, 5-20-69, Cl. 337-227.
Lohrmann, Dieter R., to United States of America, Army. Power amplifier for amplitude modulated transmitter. 3,486,128, 12-23-69, Cl. 330-40.
Lohse, Friedrich; and Batzer, Hans, to Ciba Limited. Curable mixtures comprising a compound containing at least two B-methylenepropiolactone groups and a cross linking agent. 3,442,870, 5-6-69, Cl. 260-78.3
Lohse, Friedrich: *See—*
Porret, Daniel; Lohse, Friedrich; Leumann, Ernst; Nikles, Erwin; and Batzer, Hans,3,455,949.
Lohse, Hardy Gotthard, to St. Regis Paper Company. Process for producing delayed-tack adhesive compositions and coating sheet materials therewith. 3,447,954, 6-3-69, Cl. 117-122.
Lohse, Karl-Heinz: *See—*
Kornbichler, Heinz; Ullrich, Walter; Mainka, Alfred; and Lohse, Karl-Heinz,3,467,578.
Loiacono, Gabriel M.; and Nassau, Kurt, to Bell Telephone Laboratories, Incorporated. Growth of lithium niobate crystal. 3,446,603, 5-27-69, Cl. 23-301.
Loir, Yvon Henri Arthur. Process for storing a gas in a coal mine. 3,462,957, 8-26-69, Cl. 61-0.5
Loiseau, Gerard Paul Marie Henri, to Ugine Kuhlmann. Methods for stimulating growth of animals with phosphocreatinine. 3,479,433, 11-18-69, Cl. 424-200.
Loiselet, Yves: *See—*
Cousin, Maurice; Klein, Robert; Loiselet, Yves; and Sonet, Gilbert,3,456,125.

Lojas, Matthew Stanley, to Metallurgical Exoproducts Corporation, mesne. Production of rimmed steels. 3,436,209, 4-1-69, Cl. 75-53.
Lok-Box, Inc.: *See—*
Eberly, David H., Jr., 3,454,444.
Loken, Bjarte; and Gut, Marcel, to Phytogen Products, Inc.6-Methyl-Δ5,7 sterols and methods to prepare same. 3,468,875, 9-23-69, Cl. 260-239.55
Loken, Bjarte; and Gut, Marcel, to Phytogen Products, Inc. Steroid ketal. 3,480,621, 11-25-69, Cl. 260-239.55
Loken, Bjarte; and Sollins, Irving V., to Phytogen Products, Inc. Ketal intermediate. 3,480,619, 11-25-69, Cl. 260-239.55
Lokensgaard, Otto M. Apparatus for installing septic tanks and cesspools. 3,462,896, 8-26-69, Cl. 52-127.
Lokerson, David T.: *See—*
Meek, James M.; Lokerson, David T.; and Briggs, Gary A.,3,465,251.
Lokey, Benjamin F., to Hercules Incorporated. Preparation of α,α-dimethylbenzyl alcohol. 3,483,261, 12-9-69, Cl. 260-618.
Lokey, Burke P., to Westvaco Corporation. Machine and method for making leak-proof paper bags. 3,470,796, 10-7-69, Cl. 93-13.
Lokey, Burke P.; and Rein, Charles R., to West Virginia Pulp and Paper Company. Bag inspection method and apparatus therefor. 3,433,135, 3-18-69, Cl. 93-8.
Lokken, Albert. Drain attachment for flexible cover for boats. 3,475,772, 11-4-69, Cl. 9-1.
Lollmann, Paul. Device for uncorking champagne or suchlike bottles. 3,476,278, 11-4-69, Cl. 215-55.
Lomakka, Gosta Mattias: *See—*
Caspersson, Torbjorn Oskar; and Lomakka, Gosta Mattias,3,446,562.
Lomas, William Guidford. Golf practice machine. 3,460,391, 8-12-69, Cl. 73-379.
Lomax, Donald P.: *See—*
Foster, George H.; and Lomax, Donald P.,3,456,298.
Lombard, Claude-Edmond, to Regie Nationale des Usines Renault. Rotary-magnet variable-voltage alternator, especially applicable to the power-transmission of automobile vehicles. 3,443,135, 5-6-69, Cl. 310-191.
Lombard, Claude, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Electric contact units of cable control devices. 3,435,165, 3-25-69, Cl. 200-61.89
Lombard Corporation: *See—*
Katko, Daniel A., 3,477,229.
Lombard, Daniel L., 3,431,765.
Lombard, Daniel L., 3,436,944.
Lombard, Daniel L., 3,482,429.
Lombard, Daniel L., to Lombard Corporation. Hydraulic extrusion press. 3,431,765, 3-11-69, Cl. 72-255.
Lombard, Daniel L., to Lombard Corporation. Tube reducing apparatus. 3,436,944, 4-8-69, Cl. 72-208.
Lombard, Daniel L., to Lombard Corporation. Hydraulic press. 3,482,429, 12-9-69, Cl. 72-450.
Lombard, Francis; and Juillard, Pierre, to Crylor. Production of a network of polyacrylonitrile filaments. 3,433,866, 3-18-69, Cl. 264-210.
Lombard, Louis: *See—*
Mounier, Bruce; and Lombard, Louis,3,486,264.
Lombardi, Crescenzo R.; and Lester, Fritz O. Food container. 3,442,433, 5-6-69, Cl. 229-2.5
Lombardi, Eugene H.: *See—*
Lee, Edward P.; Lombardi, Eugene H.; Montes, Ralph A.; and Stoeckli, Oscar W.,3,470,996.
Lombardi, Frank G., to Union Carbide Corporation. Process for forming non-foamed polyurethane elastomers using metal diorgano dithiocarbamates as latent curing catalysts. 3,432,474, 3-11-69, Cl. 260-77.5
Lombardi, Jack P. Apparatus for making spiral seamed corrugated laminated pipe with uncorrugated interior. 3,474,514, 10-28-69, Cl. 29-200.
Lombardi, Jose C. Broiling utensil. 3,483,816, 12-16-69, Cl. 99-421.
Lombardi, Louis F.: *See—*
Campana, Nicholas L.; Campano, Frank J.; and Lombardi, Louis F.,3,486,166.
Lombardi, Victor J. Apparatus for knitting loop fabric. 3,477,255, 11-11-69, Cl. 66-91.
Lombardini, Arnaldo; and Ferretti, Giorgio. Transistor ignition system for gas engines. 3,439,663, 4-22-69, Cl. 123-149.
Lombardini, Pietro P.: *See—*
Grossi, Mario D.; and Lombardini, Pietro P.,3,445,844.
Lombardo, Allan Kilroe: *See—*
Schafler, Armando Birlain; and Lombardo, Allan Kilroe,3,459,642.
Birlain Schafler, Armando; and Lombardo, Allan,3,478,684.
Lombardo, John L.: *See—*
Platino, Rocco J.; and Lombardo, John L.,3,454,132.
Lombardo, John M.; Friesen, Clarence W.; and Lombardo, Louis M., to Terrazzo Supply Corporation. Floor surfacing machine. 3,452,486, 7-1-69, Cl. 51-177.
Lombardo, Leo R., to Cleveland Technical Center, Inc. Electrical meter system employing electrolytic coulometers as measuring instruments. 3,466,543, 9-9-69, Cl. 324-140.
Lombardo, Louis M.: *See—*
Lombardo, John M.; Friesen, Clarence W.; and Lombardo, Louis M.,3,452,486.
Lombardo, Michael E., to Stapling Machines Co.'Composition and methods for rendering absorbent materials fungicidal comprising an aqueous solution of borax/and the bis(tri-N-propyltin) diammonium chloride of a tri-polyoxyethylated N-alkyl trimethylene diamine. 3,443,010, 5-6-69, Cl. 424-148.
Lombardo, Pasquale, to Allied Chemical Corporation. Insecticidal methods and compositions utilizing ketone adducts. 3,469,010, 9-23-69, Cl. 424-311.
Lombardo, Pasquale: *See—*
Newallis, Peter E.; and Lombardo, Pasquale,3,420,919.
Newallis, Peter E.; and Lombardo, Pasquale,3,442,955.
Newallis, Peter E.; Otto, Julian A.; and Lombardo, Pasquale,3,445,507.
Lombardo, Peter P.: *See—*
Kashkin, Ronald; Lombardo, Peter P.; and Pomeranz, Harry,3,443,233.
Lombardo, Samuel J.: *See—*
Sporck, Claus L.; Kelley, Thomas H.; and Lombardo, Samuel J.,3,453,854.
Lombardy, Frank, to Johns-Manville Corporation. Spiral-wound disc friction element and method of making same. 3,437,546, 4-8-69, Cl. 161-35.
Lombardy, Joseph B. Railway boxcar journal lubricator. 3,434,764, 3-25-69, Cl. 308-85.
Lomerson, Robert B. Method of assembling leads in an apertured support. 3,444,619, 5-20-69, Cl. 29-630.
Lomolino, Paul A. Liquid level indicating element. 3,448,618, 6-10-69, Cl. 73-327.
Lomolino, Paul A. Drain valve construction. 3,460,561, 8-12-69, Cl. 137-247.13
LoMonaco, Sergio; Melacini, Paolo; Borsini, Giancarlo; Magagnin, Luigi Ciligot; and Visani, Francesco, to Chatillon Societa Anonima Italiana per le Fibre Tessili Artificiali S.p.A. Process for the low-temperature homopolymerization and copolymerization of vinyl chloride. 3,476,727, 11-4-69, Cl. 260-92.8
Lonadier, Frank D.; Brown, Willard B.; Fushimi, Fred C.; and Silver, Gary L., to United States of America, Atomic Energy Commission. Ion exchange method for preparing metal oxide microspheres. 3,438,749, 4-15-69, Cl. 23-344.
Lonati, Francesco. Device for displacing needles for circular knitting machines. 3,442,097, 5-6-69, Cl. 66-50.
Loncar, Frank. Portable game apparatus. 3,477,718, 11-11-69, Cl. 273-40.
Londal, Ralph K., to Holley Carburetor Company. Pressure responsive mechanism. 3,434,395, 3-25-69, Cl. 92-6.
Londal, Ralph K.; Schroeder, Lloyd A.; and Doolin, Wendell M., to Automotive Pattern Co. Blow plate assembly. 3,461,948, 8-19-69, Cl. 164-201.
London, Alvan G., to Applied Power Industries, Inc. Safety tilt system. 3,472,547, 10-14-69, Cl. 296-28.
London, Alvin B.; and Winkler, Julius G., to Creative Research Corporation, mesne. Method and apparatus for making sandals and other open top shoes. 3,474,477, 10-28-69, Cl. 12-142.
London Bankside Products Limited: *See—*
Wagstaffe, Aubrey H., 3,477,062.
London, William Herbert: *See—*
Mortlock, James Oswald; London, William Herbert; and Shaw, William,3,475,913.
Londontown Manufacturing Company, The: *See—*
Hofe, Eugene F., 3,440,984.
Loner, Aldo. Cutter head for dry shaving apparatus. 3,453,728, 7-8-69, Cl. 30-34.1
Loner, Aldo; and Meier, Otto, to Carinthia Elektrogerate Gesellschaft m.b.H., Firma. Cutter head for dry shaving apparatus. 3,456,341, 7-22-69, Cl. 30-34.1
Long, Alan Gibson: *See—*
Eardley, Stephen; Gregory, Gordon Ian; Lazenby, John Kevin; and Long, Alan Gibson,3,479,350.
Long, Albert E. Flash cube adapter for camera. 3,465,138, 9-2-69, Cl. 240-1.3
Long, Anthony Alfred Walter; and Nayler, John Herbert Charles, to Beecham Group Limited. Penicillins substituted with heterocyclic groups. 3,433,784, 3-18-69, Cl. 260-239.1
Long, Arthur H.: *See—*
Meyerhoff, Alfred; Stewart, William A.; Long, Arthur H.; and Kothmann, Richard E.,3,457,988.
Long, Benjamin E., to AMBAC Industries, Incorporated. Electric machine. 3,487,246, 12-30-69, Cl. 310-154.
Long, Bernard, to Libbey-Owens-Ford Company. Manufacture of a continuous glass sheet on a molten metal bath. 3,445,213, 5-20-69, Cl. 65-65.
Long, Bernard, to Libbey-Owens-Ford Glass Company. Process for reducing the thickness of float glass by differentiated cooling. 3,485,614, 12-23-69, Cl. 65-99.

Long, Cecil Louis, to Du Pont de Nemours, E. I., and Company. Differential speed gravure coating process. 3,468,700, 9-23-69, Cl. 117-111.
Long, Charles A., to Struthers Wells Corporation. Pressure vessel. 3,457,961, 7-29-69, Cl. 138-143.
Long, Charles E. Self adjusting wedge-type disk brake. 3,430,736, 3-4-69, Cl. 188-73.
Long, Charles W.: *See—*
Eldridge, Clare W.; Long, Charles W.; and Gamble, Robert O.,3,457,715.
Long, Charles-Jean: *See—*
Grange, Bernard; Long, Charles-Jean; Jugue, Bernard; and Mallet, Roger,3,446,176.
Long, Chester L.: *See—*
Grigsby, Charles E.; Long, Chester L.; and Hose, Alexander V.,3,437,111.
Long, Donald A.; and Mosher, Walter W., Jr. Luggage tag. 3,429,065, 2-25-69, Cl. 40-21.
Long, Donald A.; and Mosher, Walter W., Jr., to Precision Dynamics Corporation. Multiple identification band assembly and method of making the same. 3,467,246, 9-16-69, Cl. 206-56.
Long, Douglas R., to Del-Guy Inc. Safety device for handling hot electrical transmission lines. 3,454,296, 7-8-69, Cl. 294-78.
Long, Edward M.: *See—*
Dill, Charles L., Jr., 3,430,100.
Dill, Charles L., Jr., 3,447,029.
Long, Elton B., to Case, J. I., Company. Locking apparatus for side shiftable excavator. 3,436,099, 4-1-69, Cl. 280-456.
Long, Emile David, to Gillett Tool Co., Inc., mesne. Electric speed control system for a fluid operated disc clutch. 3,437,188, 4-8-69, Cl. 192-103.
Long, Eric L.: *See—*
Cherry, Walter L.; Long, Eric L.; and Olson, Harry W., Sr.,3,423,705.
Long, Eric L., to Cherry Electrical Products Corporation. Snap-action pulse switch. 3,449,538, 6-10-69, Cl. 200-160.
Long, Eric L., to Cherry Electrical Products Corporation. Overtravel switch actuator. 3,485,975, 12-23-69, Cl. 200-67.
Long, Ernest Guinne, to Johns-Manville Corporation. Joint sealing tape. 3,455,077, 7-15-69, Cl. 52-459.
Long, Geoffrey Albert, to Lucas, Joseph, (Industries) Limited. Fuel systems for gas turbine engines. 3,447,315, 6-3-69, Cl. 60-39.28
Long, Geoffrey Albert: *See—*
Warne, Eugene Harold; and Long, Geoffrey Albert,3,444,688.
Long, George B.: *See—*
Brinkman, Thomas J.; Fogt, Thomas H.; Long, George B.; and Whistler, Charles C., Jr.,3,475,829.
Long, George E.; and Anson, Howard G. Mounting means for line holder. 3,425,127, 2-4-69, Cl. 33--086
Long, George R.: *See—*
Dodson, William C., Jr.; and Long, George R.,3,458,905.
Long, Glen F., to Universal Controls Corporation. Prepay pay station adapter. 3,448,218, 6-3-69, Cl. 179-6.3
Long, Gordon D., to Tektronix, Inc. Oscillographic apparatus for measuring the magnitude and duration of input waveforms. 3,449,671, 6-10-69, Cl. 324-121.
Long, Hamish Arthur: *See—*
Jackson, John Brian; Sherliker, Francis Raymond; and Long, Hamish Arthur,3,479,318.
Long, Harold W. Crib warmer. 3,438,069, 4-15-69, Cl. 5-348.
Long, Hiram S., Jr.: *See—*
Lamb, Douglas J.; and Long, Hiram S., Jr.,3,436,823.
Long Island Oyster Farms, Inc.: *See—*
Vanderborgh, George H., Jr.; and Campbell, Phillip J., 3,486,486.
Long, Jack L., to United States of America, Atomic Energy Commission. Recovery of americium from plutonium metal using molten salts. 3,460,917, 8-12-69, Cl. 23-325.
Long, James; and Pedersen, Niels P., to General Electric Company. Pulse width control for adjustable speed drive system. 3,465,228, 9-2-69, Cl. 318-328.
Long, Joanne B.: *See—*
Hadley, Emerson E., deceased; Hadley, Doris J.; Hadley, Emerson Rea; and Long, Joanne B.; heirs,3,468,082.
Long, John A.: *See—*
Mc Vey, George R.; Long, John A.; and Timmons, Richard J.,3,462,257.
Long, John E.: *See—*
Loter, Ira; and Long, John E.,3,437,494.
Long, John R. Anti-jackknife device for fifth-wheel tractor- trailer connections. 3,430,986, 3-4-69, Cl. 280-432.
Long, John T., Jr., to Chemetals Corporation. Recovery of copper from acid copper sulfate solutions. 3,424,575, 1-28-69, Cl. 75-109.
Long, Joseph F.: *See—*
Buehler, Oscar R.; Keister, George P.; and Long, Joseph F.,3,461,167.
Long Manufacturing Co., Inc.: *See—*
Atkinson, Wallace E., 3,434,314.
Long Manufacturing Company: *See—*
Long, William R.; and Long, Zebulon Vance, 3,483,686.
Long Manufacturing Company, Inc.: *See—*
Atkinson, Wallace E., 3,452,563.
Atkinson, Wallace E., 3,459,016.
Long, Marshall, to Carnation Company, mesne. Apparatus for providing heat of sterilization in processes of canning food material. 3,427,954, 2-18-69, Cl. 99-251.
Long, Marshall: *See—*
Miller, Jack M.; Long, Marshall; and Alley, Lewis F.,3,456,285.
Long, Nigel Neville William; and Hickton, Raymond, to Lucas, Joseph (Industries) Limited. Dashboard assemblies for road vehicles. 3,424,264, 1-28-69, Cl. 180-90.
Long, Norwood G.: *See—*
Fraser, John M.; and Long, Norwood G.,3,466,398.
Long, Oscar C., Jr. Hair-grooming device having controllably activatable and inactivatable liquid-applying means. 3,456,658, 7-22-69, Cl. 132-116.
Long, Ray S.; and Tveter, Elmer C., to Dow Chemical Company, The. Hydrochlorination process for recovery of metal values. 3,432,255, 3-11-69, Cl. 23-16.
Long, Raymond H.; and Maddock, Maldwyn J., to Lummus Company, The. Phosphoric acid process. 3,453,076, 7-1-69, Cl. 23-165.
Long, Richard W. Heated underwater diving suit. 3,449,761, 6-17-69, Cl. 2-2.1
Long, Robert Alvin; and Poplaski, Daniel Eugene, to AMP Incorporated. Hand tool for crimping terminals. 3,420,086, 1-7-69, Cl. 72-338.
Long, Robert B., to Esso Research and Engineering Company. Complexes of copper compounds with acetylides. 3,420,862, 1-7-69, Cl. 260-438.1
Long, Robert B., to Esso Research and Engineering Company. Process for separating olefins from admixtures with high porosity cuprous halide salts. 3,437,713, 4-8-69, Cl. 260-681.5
Long, Robert B.; and Knarr, Warren Alfred, to Esso Research and Engineering Company. Process for separating olefins from admixtures with high porosity cuprous halide salts. 3,437,712, 4-8-69, Cl. 260-681.5
Long, Robert B.: *See—*
Cahn, Robert P.; Long, Robert B.; Cecchetti, Ralph; Carr, Jesse M., Jr.; and De Feo, Richard J.,3,481,971.
Sawyer, Willard Hall; Long, Robert B.; and Gardner, Donald J.,3,441,377.
Long, Robert L.: *See—*
Koch, Henry A.; and Long, Robert L.,3,433,236.
Long, Roger A., to Whittaker Corporation. Ceramic structural composite. 3,460,305, 8-12-69, Cl. 52-604.
Long, Roger A.; and Jones, Rodney A., to Whittaker Corporation. Filament reinforced metal composites for gas turbine blades. 3,460,920, 8-12-69, Cl. 29-183.5
Long, Roger Alden, to Whittaker Corporation. Plastic substrate having ceramic coating. 3,485,703, 12-23-69, Cl. 161-87.
Long, Sam L., Jr. Paper clip dispenser. 3,422,989, 1-21-69, Cl. 221-186.
Long, Samuel Wendell, to Michigan Chemical Corporation. Production of alpa,alpha-dihaloaliphatic acids. 3,452,089, 6-24-69, Cl. 260-539.
Long, Stanley Thomas, to C.A.V. Limited. Counting apparatus. 3,475,955, 11-4-69, Cl. 73-168.
Long, Thomas L.: *See—*
Disko, Harry; Long, Thomas L.; and Glass, Marvin I.,3,484,798.
Long, Thomas P.: *See—*
Murphy, Alfred M.; Filak, Carl M.; Long, Thomas P.; and Brown, John A., Jr.,3,475,942.
Long, William A., to Cincinnati Milling Machine Co., The. Label mounting machine. 3,485,701, 12-23-69, Cl. 156-552.
Long, William R.; and Long, Zebulon Vance, to Long Manufacturing Company. Stripper head. 3,483,686, 12-16-69, Cl. 56-35.
Long, William W., III: *See—*
Croft, Charles P.; and Long, William W., III,3,432,968.
Long, Zebulon Vance: *See—*
Long, William R.; and Long, Zebulon Vance,3,483,686.
Longacher, Kenneth E.: *See—*
Smith, Walter W.; Longacher, Kenneth E.; and Zollar, Herbert H.,3,430,681.
Longacre Press, Inc., The: *See—*
Klebanow, Norman K.; and Sager, Dan, 3,467,060.
Longarzo, Roland, to Union Pen & Pencil Corporation. Writing implement body connecting assembly. 3,462,232, 8-19-69, Cl. 401-209.
Longenecker, Bruce Cameron: *See—*
Winrow, Donald; Longenecker, Bruce Cameron; and Reynolds, Charles Edward,3,469,258.
Longenecker, John F.: *See—*
Freyberger, Donald L.; and Longenecker, John F.,3,469,301.
Longenecker, Levi S. Open hearth having preheat and charge means. 3,424,445, 1-28-69, Cl. 266-24.
Longenecker, Levi S. Making basic oxygen steel in an electric arc furnace system. 3,444,304, 5-13-69, Cl. 13-9.
Longenecker, Levi S. Apparatus and method for preheating of metal scrap for furnace charging. 3,479,438, 11-18-69, Cl. 13-9.

Longfield, James Edgar; and Beegle, Lindley Clair, to American Cyanamid Company. Superheating amonia. 3,455,659, 7-15-69, Cl. 23-293.
Longiave, Carlo; Castelli, Renato; Andreetta, Alberto; and Garberi, Angelo, to Montecatini Edison, S.p.A. Process for the catalytic preparation of cyclododecatrienes-1,5,9 from conjugated diolefins and catalysts therefor. 3,420,899, 1-7-69, Cl. 260-666.
Longini, Richard L., to Westinghouse Electric Corporation. High power semiconductor control element and associated circuitry. 3,480,802, 11-25-69, Cl. 307-299.
Longinotti, Enrico. Process for molding decorative cement slabs. 3,484,514, 12-16-69, Cl. 264-163.
Longley, Harry F.; Bedford-Jones, Peter E.; and Battle, Thomas, to Steel Company of Canada, Limited, The, Metallgesellschaft Aktiengesellschaft, and Pickands Mather & Co. Peripheral charging of sponge iron. 3,443,930, 5-13-69, Cl. 75-10.
Longley, Lester A., to RCA Corporation. Screening loader. 3,461,968, 8-19-69, Cl. 171-132.
Longley, Peter: *See—*
Coplin, John Frederick; Longley, Peter; and Blackhurst, Robert Vaughan,3,421,686.
Longman, Sidney E. Sugarcane planting aid. 3,422,973, 1-21-69, Cl. 214-83.1
Longman, Sidney E. Automatic sugar cane planter. 3,468,441, 9-23-69, Cl. 214-519.
Longmire, Donald E.: *See—*
Blakely, Carl Frederick; and Longmire, Donald E.,3,463,334.
Longo, Harry N. Bicycle safety-wheel attachment. 3,437,352, 4-8-69, Cl. 280-293.
Longoria, Juan, III; and Strother, Greene W., Jr., to Dow Chemical Company, The. Wet strength additives for cellulosic products. 3,462,383, 8-19-69, Cl. 260-9.
Longosz, Edward J.: *See—*
Panzer, Jerome; Longosz, Edward J.; Staffin, Gerald D.; and Goodson, Robert M.,3,446,737.
Longshore, Donald W., to Allis-Chalmers Manufacturing Company. Two speed power take-off. 3,464,277, 9-2-69, Cl. 74-15.4
Longuski, Robert N.; and Zaske, Robert E., to Round Tool Co., Inc. Chuck jaws. 3,433,491, 3-18-69, Cl. 279-2.
Longval, William B., to USM Corporation. Control for cutting presses. 3,474,695, 10-28-69, Cl. 83-524.
Longview Fibre Company: *See—*
Nordstrom, Duane M., 3,464,619.
Small, Donald I., 3,441,125.
Willard, Edwin J., 3,478,654.
Longwell, Charles R.: *See—*
Lockenvitz, Arthur; Longwell, Charles R.; and Pietsch, Roy,3,452,296.
Longwell, John P.; Bieber, Herman; and Begley, John W., to Esso Research and Engineering Company. Solid propellant system for rockets. 3,429,265, 2-25-69, Cl. 102-101.
Longwell, Thomas F., to Automatic Electric Laboratories Inc. Semiconductor transducer assembly. 3,435,157, 3-25-69, Cl. 179-110.
Longworth, David Philip, to Associated Electrical Industries Limited. Circuit arrangement for synthetic testing of electrical apparatus employing a steady A.C. recovery voltage supply applied after the transient recovery voltage. 3,467,857, 9-16-69, Cl. 324-28.
Longworth Scientific Instrument Company Limited: *See—*
Jephcott, John A., 3,426,749.
Sugg, Basil R.; and Lloyd, John, 3,438,372.
Longyear, E. J., Company: *See—*
Casper, Ray K.; and Lindelof, Leonard A., 3,428,138.
Casper, Ray K.; and Linn, Albert L., 3,461,981.
Lonnberg, Stig: *See—*
Jakobsson, Per; and Lonnberg, Stig,3,484,913.
Lonsdale, Melvin J.: *See—*
Batterton, Elmo L.; and Lonsdale, Melvin J.,3,440,734.
Lont, George M.: *See—*
Snyder, James B.; Lont, John D.; and Lont, George M.,3,429,263.
Lont, John D.: *See—*
Snyder, James B.; Lont, John D.; and Lont, George M.,3,429,263.
Lonza Ltd.: *See—*
Brunner, Emil; Hasler, Hans; and Huber, Alfred, 3,436,445.
Hugli, Gottfried, 3,460,811.
Pino, Piero; and Braca, Guiseppe, 3,446,591.
Pino, Piero; Braca, Giuseppe; and Sbrana, Glauco, 3,459,812.
Scheuber, Hermann, 3,480,676.
Volker, Theodore; and Schindelmann, Frika, 3,487,101.
Lonza-Werke Elektrochemische Fabriken G.m.b.H.: *See—*
Fuchs, Alfons; and Babel, Albert, 3,472,655.
Lonza-Werke G.m.b.H.: *See—*
Babl, Albert; and Geng, Heinz Josef, 3,473,894.
Looby, John T.: *See—*
Lambert, John B.; and Looby, John T.,3,425,822.
Loofboro, Verne L.: *See—*
Dunn, Elman R.; and Loofboro, Verne L.,3,458,957.
Loofbourrow, James G. Barbed strip. 3,455,539, 7-15-69, Cl. 256-8.
Loois, Hendrikus J., to Shell Oil Company. Process for preparing concrete tiles having a top layer of epoxy resin. 3,439,076, 4-15-69, Cl. 264-69.
Look, Melvin; Padgett, Weldon M., II; Hyman, Julius; Fenyes, Joseph G. E.; and Lee, Herbert P. C., to Fundamental Research Company. Orthocarboxy-sulfo-dedecachloro- octahydrodimethanotriphenylene anhydride. 3,480,646, 11-25-69, Cl. 260-327.
Looker, Ivan L. Variable speed transmission. 3,435,709, 4-1-69, Cl. 74-752.
Looker, Ivan L. Planetary gear type steering device for track vehicles. 3,450,218, 6-17-69, Cl. 180-6.44
Looker, Olin L., to FMC Corporation. Harvesting apparatus. 3,429,111, 2-25-69, Cl. 56-108.
Lookman, Evert Jacobus, to U.S. Philips Corporation. Casing for electric apparatus with the motor resiliently suspended. 3,458,737, 7-29-69, Cl. 310-51.
Loomans, Bernard A., to Baker Perkins Inc. Multipurpose continuous mixing and/or kneading apparatus. 3,423,074, 1-21-69, Cl. 259-6.
Loomans, Bernard A., to Baker Perkins Inc. Material feeding device for a continuous mixer, reactor, or the like. 3,486,664, 12-30-69, Cl. 222-413.
Loomans, Bernard A.; Ross, Thomas I.; Balazer, Richard J.; and Scherping, Clarence K., to Baker Perkins Inc. Automatically operated door mechanism for a mixer, kneader, reactor or like machine. 3,463,459, 8-26-69, Cl. 259-41.
Loomie, Edward R. Durometer. 3,468,159, 9-23-69, Cl. 73-81.
Loomis Machine Company: *See—*
Beckwith, Robert C.; and Hecker, Robert W., Jr., 3,426,377.
Hecker,Robert W.,Jr.; and Beckwith,Robert C., 3,486,181.
Loomis, Russell M.: *See—*
Bezlaj, Frank A.; McLaughlin, Gerald R.; Loomis, Russell M.; and Breen, Henry D.,3,486,468.
Breen, Henry D.; and Loomis, Russell M.,3,431,015.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D.,3,422,773.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D.,3,478,700.
Loomis, Russell M., to Unarco Industries, Inc. Side filler. 3,472,180, 10-14-69, Cl. 105-369.
Loomis, Russell M.; and Breen, Henry D., to Unarco Industries, Inc. Lading separating means. 3,477,392, 11-11-69, Cl. 105-376.
Loonen, Hendrik E.: *See—*
Fontein, Freerk J.; Loonen, Hendrik E.; and Creuels, Frans H.,3,447,327.
Looney, Catharine Elizabeth: *See—*
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth,3,423,427.
Cescon, Lawrence Anthony; Dessauer, Rolf; and Looney, Catharine Elizabeth,3,449,379.
Loop, James P.: *See—*
Lynn, William J.; and Loop, James P.,3,443,993.
Looper, Glenn. Pneumatically fed tufted textile machine. 3,430,590, 3-4-69, Cl. 112-80.
Loos, Gunter: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Loos, Kurt: *See—*
Haschek, Friedrich; and Loos, Kurt,3,426,830.
Loos, Kurt; and Haschek, Friedrich, to Kabelschlepp G.m.b.H. Covering means for guiding paths on machine tools. 3,429,356, 2-25-69, Cl. 160-223.
Looschen, Floyd W., to Burroughs Corporation. Word select and character inhibit memory system. 3,444,534, 5-13-69, Cl. 340-174.
Loose, Guenter H., to Corning Glass Works. Stressed hermetic seal and method of making said seal. 3,436,109, 4-1-69, Cl. 287-189.365
Loose, Guenter H., to Corning Glass Works. Double negative exposure method for photosensitively opacifiable glass. 3,473,927, 10-21-69, Cl. 96-36.
Loose, Sheldon D.: *See—*
Pemberton, Paul E.; Loose, Sheldon D.; and Greene, Anthony E.,3,457,983.
Loose, Winfield Warren: *See—*
Carlisle, Raymond Melvin; and Loose, Winfield Warren,3,436,696.
Loose, Winfield Warren, to AMP Incorporated. Programming system. 3,428,935, 2-18-69, Cl. 339-19.
Loosen, Ronald E. Tape reel. 3,429,430, 2-25-69, Cl. 206-52.
Looss, Helmut: *See—*
Heider, Helmut; and Looss, Helmut,3,443,476.

Loots, Francois Pierre: *See—*
Hendricx, Serge; and Loots, Francois Pierre,3,470,021.
Lopacki, John, to Carborundum Company, The. Method of stabilizing resistance in semiconductor manufacture. 3,442,014, 5-6-69, Cl. 29-612.
Lopasic, Alexander Z.: *See—*
Magida, Nathan H.; Lopasic, Alexander Z.; and Wolfner, William,3,425,008.
Lopata, Herman, to Automatic Tool Systems, Inc. Fare collection system. 3,441,716, 4-29-69, Cl. 235-92.
Lopata, Ira L. Method and apparatus for filling soft-baked goods. 3,465,693, 9-9-69, Cl. 107-1.
Lopata, Karl-Peter, to Kleinewefers, Joh., Sohne Maschinenfabrik. Multidirectional faucet. 3,470,906, 10-7-69, Cl. 137-579.
Lopata, Karl-Peter: *See—*
Schiffer, Gunter; and Lopata, Karl-Peter,3,421,345.
Lopatin, George; and Schroeder, Carl W., to Shell Oil Company. Polypropylene. 3,468,044, 9-23-69, Cl. 38-144.
Lopatka, Dale R.: *See—*
Ferdinand, Irwin J.; and Lopatka, Dale R.,3,438,344.
Loper, George B., to Mobil Oil Corporation. Fuel mixing and ignition system in pneumatic acoustic source. 3,434,561, 3-25-69, Cl. 181-0.5
Loper, George B., to Mobil Oil Corporation. Correlating seismic signals. 3,435,195, 3-25-69, Cl. 235-181.
Loper, George B.: *See—*
Brown, Ellis M.; Loper, George B.; and Otto, Bernard,3,468,396.
Lopes, Manuel R.: *See—*
Shockroo, James E.; Lopes, Manuel R.; and McMorrow, Joseph L.,3,470,513.
Lopez De Vergara, Esteban Arriaga. Plants for the washing and drying of fruit. 3,447,544, 6-3-69, Cl. 134-60.
Lopez, Emerito S. System for processing asparagus for canning. 3,437,031, 4-8-69, Cl. 99-404.
Lopez, Firmin O.; and Proskauer, Walter, to Spectra-Physics, Inc. Gas laser with gas storage electrode. 3,424,997, 1-28-69, Cl. 331-94.5
Lopez, Gordon R.; and Frisman, Mark M., to Hughes Aircraft Company. Expandable insert for solid and cellular structures. 3,485,282, 12-23-69, Cl. 151-41.7
Lopez, John A.; and Hallstrom, James R., to Shell Oil Company. Epoxy resin traffic paint compositions. 3,446,762, 5-27-69, Cl. 260-18.
Lopez, John A.: *See—*
Hallstrom, James R.; and Lopez, John A.,3,480,577.
Lopez, John, to Universal Corrugated Box Machinery Corporation. Sheet conveying, stacking and discharge equipment. 3,481,598, 12-2-69, Cl. 271-68.
Lopez, Martin Luis. Retrieving line mechanism. 3,443,698, 5-13-69, Cl. 212-9.
Lopez, Romeo: *See—*
Clarke, James A.; and Lopez, Romeo,3,451,950.
Lopickes, Delores V., to Monsanto Research Corporation. Herbicidal ether. 3,450,522, 6-17-69, Cl. 71-124.
Lopp, Charles R.; and Ruspino, James G., to Whirlpool Corporation. Food waste disposer. 3,436,029, 4-1-69, Cl. 241-194.
Loprest, Frank J., to GAF Corporation. Reflex copying process and apparatus employing infrared exposure and electrolytic development. 3,445,654, 5-20-69, Cl. 250-65.
Loprest, Frank J.: *See—*
Weinberg, Elliot K.; and Loprest, Frank J.,3,450,492.
Loprete, Joseph F.: *See—*
Bentele, Max; Biehl, Richard E.; and Loprete, Joseph F.,3,456,445.
LOR Corporation: *See—*
Fiedler, William S.; and Annen, Robert P., 3,481,389.
Lorain, Roger; and Trompier, Albert, to Compagnie Generale du Duralumin et du Cuivere Cegedur. Method and composition for improved welding of light metal or light alloys. 3,468,016, 9-23-69, Cl. 29-488.
Loraine, Nevison G.; and Lidgate, John B., to Angus, George, & Company Limited. Silicone rubber materials. 3,468,838, 9-23-69, Cl. 260-37.
Loral Corporation: *See—*
Bennett, Floyd M., 3,438,036.
Carroll, James A.; and Spivak, Joel F., 3,480,484.
Cohen, Morris, 3,426,297.
Cohen, Morris, 3,435,385.
Lorang, Pierre Edouard, to Centre de Recherches de Pont-a-Mousson. Machine for centrifugally casting pipes. 3,438,427, 4-15-69, Cl. 164-295.
Lorang, Pierre Edouard, to Centre de Recherches de Pont-a-Mousson. Carriage for a centrifugal casting machine and machine including said carriage. 3,456,716, 7-22-69, Cl. 164-301.
Lorant, George John, to General Foods Corporation. Product and process for preparing frozen whipped topping composition. 3,431,117, 3-4-69, Cl. 99-139.
Lorbeer, Ernest H.: *See—*
Anderson, Thure; and Lorbeer, Ernest H.,3,421,819.
Lorbeer, Ernest H., to United States of America, Atomic Energy Commission. Dimensional measuring machine for test specimens. 3,479,745, 11-25-69, Cl. 33-174.
Lorber, Gerd: *See—*
Wachter, Otto; and Lorber, Gerd,3,433,122.
Lorber, Leslie Howard, 1/3 to Olcott, Bernard. Process of producing multicolor utilizing a single printing plate. 3,429,702, 2-25-69, Cl. 96-30.
Lorch, Hermann Richard; and Sorsky, Gideon, to British Insulated Callender's Cables Limited. Mineral insulated electric cables. 3,469,307, 9-30-69, Cl. 29-573.
Lorch Industries, Inc.: *See—*
Slaughter, Clarence S., 3,481,036.
Lorck, Flemming L., to Oxford Paper Company. Air Knife metering apparatus and method. 3,445,270, 5-20-69, Cl. 117-102.
Lord, Albert M.; Walsh, Thomas J.; and Fatica, Nicholas, to TRW Inc. Battery including fluoride electrolyte and sulfur hexafluoride. 3,459,596, 8-5-69, Cl. 136-86.
Lord Corporation: *See—*
Beck, Merrill G., 3,456,961.
Beck, Merrill G., 3,461,816.
Boyer, Nicodemus E., 3,455,971.
Kloss, John W., 3,438,251.
Kloss, John W., 3,457,018.
Peterson, Robert R.; Schmidt, Warren E.; and Woodford, Philip R., 3,467,353.
Warnaka, Glenn E., 3,422,921.
Whitehill, Albert Simeon, 3,425,318.
Lord, Harold W., to General Electric Company. Broad band high power pulse transformer. 3,430,162, 2-25-69, Cl. 333-33.
Lord, Harold W., to General Electric Company. Broadband shielded transformers. 3,458,843, 7-29-69, Cl. 336-84.
Lord, John B., IV: *See—*
Clapham, Robert G.; Lord, John B., IV; and Sullivan, Harold G.,3,445,771.
Lord, John B., to Honeywell, Inc. Data link error compensation apparatus. 3,422,222, 1-14-69, Cl. 178-69.
Lord, John B., to Honeywell Inc. Separation of harmonic bands of a signal by inserting amplitude related pulses between sampling pulses. 3,430,145, 2-25-69, Cl. 325-42.
Lord, John B.; and Lytle, Dean W., to Honeywell Inc. Automatic channel equalization apparatus. 3,479,458, 11-18-69, Cl. 178-69.
Gaughan, Philip J.; Dorwart, George E.; and Lord, John B.,3,427,252.
Gaughan, Philip J.; Dorwart, George E., III; and Lord, John B.,3,425,952.
Lord, John Gilbert: *See—*
Towlerton, Richard George; and Lord, John Gilbert,3,487,434.
Lord, John M.: *See—*
Engh, Howard A.; and Lord, John M.,3,480,743.
Lord, Joseph S.: *See—*
Bentley, George P.; and Lord, Joseph S.,3,446,972.
Bentley, George P.; and Lord, Joseph S.,3,458,261.
Lord, Michael Robert, to International Standard Electric Corporation. Non-linear coder. 3,480,948, 11-25-69, Cl. 340-347.
Lord, Peter Reeves, to National Research Development Corporation. Process for treating filamentary material. 3,469,388, 9-30-69, Cl. 57-157.
Lord, Philip A.; and Marcus, Mitchell P., to International Business Machines Corporation. Thin film associative memory. 3,426,335, 2-4-69, Cl. 340-174.
Lord, Philip A.: *See—*
Adams, Lester R.; and Lord, Philip A.,3,466,432.
Akmenkalns, Ivars G.; Gamblin, Rodger L.; and Lord, Philip A.,3,461,441.
Gamblin, Rodger L.; and Lord, Philip A.,3,423,741.
Gamblin, Rodger L.; and Lord, Philip A.,3,452,340.
Gamblin, Rodger L.; Lord, Philip A.; Welch, Elvin C.; and Tunis, Cyril J.,3,452,213.
Lord, Thomas J.: *See—*
Hughes, Paul R.; and Lord, Thomas J.,3,456,685.
Lord, Thomas J., to United Aircraft Products Inc. Holder for contamination sampling patch. 3,436,140, 4-1-69, Cl. 350-94.
Lord, Walter R., to Sinclair Research, Inc. Apparatus for injecting liquid into a gas line. 3,460,765, 8-12-69, Cl. 239-533.
Lord, Walter V.: *See—*
Brown, Paul M.; Hopper, Nolan D.; Kampf, Richard S.; and Lord, Walter V.,3,446,134.
Lorden, William C.; McConnell, Kennedy; and Donkle, Lucius B., Jr., to Interlake Steel Corporation. Speed control device. 3,473,642, 10-21-69, Cl. 193-35.
L'Oreal:*See—*
Kalopissis, Gregoire; and Viout, Andre, 3,436,167.
Kalopissis, Gregoire, 3,485,568.
Morane, Bruno, 3,439,823.
Pelli, Pierre, 3,442,414.
Pelli, Pierre; and Morane, Bruno, 3,443,874.
Loree, Lorne A., to Dow Corning Corporation. Electrochemical fluorination of polymethylene sulfones to produce perfluoroalkylsulfonyl fluorides. 3,423,299, 1-21-69, Cl. 204-59.

Loree, Lorne A., to Dow Corning Corporation. Preparation of perfluoroalkyl halides. 3,456,024, 7-15-69, Cl. 260-653.
Loren Cook Company: *See—*
Reinkoester, William F., Jr., 3,482,767.
Loren, Jay D., to Shell Oil Company. Acoustic well logging system and method for detecting fractures. 3,474,878, 10-28-69, Cl. 181-0.5
Lorenc, Donald D.: *See—*
Johnson, James N.; and Lorenc, Donald D.,3,479,758.
Lorence, Ervin H., to Lorence Manufacturing Corporation. Turntable drive mechanism. 3,424,318, 1-28-69, Cl. 212-69.
Lorence, Ervin H., to Lorence Manufacturing Corp. Drive mechanism. 3,429,393, 2-25-69, Cl. 180-9.62
Lorence, Ervin W., to Lorence Manufacturing Corporation. Drive mechanism for a slew ring assembly. 3,452,624, 7-1-69, Cl. 74-805.
Lorence Manufacturing Corp.: *See—*
Lorence, Ervin H., 3,429,393.
Lorence Manufacturing Corporation: *See—*
Lorence, Ervin H., 3,424,318.
Lorence, Ervin W., 3,452,624.
Lorensen, Lyman E.; Beardmore, James W.; and Fowkes, Frederick M., to Shell Oil Company. Nitrogen-containing oil-soluble polymeric detergents. 3,475,393, 10-28-69, Cl. 260-86.1
Lorentz, Roy E., Jr., to Combustion Engineering, Inc. Welding apparatus for forming panels of tubes. 3,467,809, 9-16-69, Cl. 219-124.
Lorentzen, Hans K.; and Abate, Leo, to Levolor Lorentzen, Inc. Venetian blind ladder-cap and assembly. 3,485,286, 12-23-69, Cl. 160-178.
Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo, to Lorentzen, Levolor, Inc. Venetian blind construction suitable for low heads and narrow slats. 3,425,479, 2-4-69, Cl. 160-176.
Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo, to Levolor Lorentzen, Inc. Venetian-blind cradle and organization. 3,447,585, 6-3-69, Cl. 160-178.
Lorentzen, Hans Ludvig. Structural board having open cells extending at an angle to the surfaces of the board. 3,428,515, 2-18-69, Cl. 161-68.
Lorentzen, Levolor, Inc.: *See—*
Anderle, Joseph A.; and Abate, Leo, 3,425,480.
Lorentzen, Hans K.; Anderle, Joseph A.; and Abate, Leo, 3,425,479.
Lorenz, Dietrich: *See—*
Boltze, Karl-Heinz; and Lorenz, Dietrich,3,459,753.
Lorenz, Fritz; and Weiss, Ernst, to Heberlein Patent Corporation. Fabric treatment. 3,476,501, 11-4-69, Cl. 8-125.
Lorenz, Horst: *See—*
Schweer, Wilhelm; Krafft, Erich; and Lorenz, Horst,3,486,403.
Lorenz, Horst, to Kieserling, Th., & Albrecht. Method and machine for changing the curvature of elongated workpieces. 3,422,652, 1-21-69, Cl. 72-164.
Lorenz, Horst, to Kieserling, Th., & Albrecht, Werkzeugmaschinenfabrik. Apparatus for guiding workpieces in material removing machines. 3,426,627, 2-11-69, Cl. 82-20.
Lorenz, Irmgard: *See—*
Strack, Erich; and Lorenz, Irmgard,3,468,937.
Lorenz, Jerome L., to Ranco Incorporated. Control apparatus for refrigerated display case. 3,444,698, 5-20-69, Cl. 62-128.
Lorenz, Jerome L., to Ranco Incorporated. Dryer control. 3,460,267, 8-12-69, Cl. 34-45.
Lorenz, Jerome L., to Ranco Incorporated. Defrost control. 3,460,352, 8-12-69, Cl. 62-153.
Lorenz, Jerome L., to Ranco Incorporated. A.C. phase control system responsive to a sensed condition. 3,469,177, 9-23-69, Cl. 323-19.
Lorenz, Jerome L., to Ranco Incorporated. Control or signal circuits for ice bank. 3,484,805, 12-16-69, Cl. 62-139.
Lorenz, Maurice G.: *See—*
Epperly, William R.; Read, Chester L.; and Lorenz, Maurice G.,3,468,791.
Lorenz, Ralf W. Orthoptic exercising device. 3,460,530, 8-12-69, Cl. 128-76.5
Lorenz, Roman R., to Sterling Drug Inc. Process of producing certain 1,4-naphthoquinones. 3,471,525, 10-7-69, Cl. 260-396.
Lorenz, Roy H.: *See—*
Klimmek, Norman; Melill, Joseph; King, Julian P., Jr.; Lorenz, Roy H.; and Hollingsworth, Frank H.,3,462,628.
Wehrmann, Ralph F.; and Lorenz, Roy H.,3,442,172.
Lorenz, Walter: *See—*
Klesper, Herbert; Steinfatt, Fritz; Langheinrich, Klaus; and Lorenz, Walter,3,471,576.
Lorenz, Walter, to Farbenfabriken Bayer Aktiengesellschaft. 3,4-Dihydro-4-oxo-1,2,3-benzotriazine-3-yl-ethyl phosphoric and phosphonic acid esters. 3,420,829, 1-7-69, Cl. 260-248.
Lorenzen, Coby, to University of California, The Regents of the. Separator for tomato harvester. 3,420,239, 1-7-69, Cl. 130-30.
Lorenzen, Edwin N., to Protex Industries Inc. Method and apparatus for measuring and dispensing liquids. 3,435,989, 4-1-69, Cl. 222-1.
Lorenzen, Glenn R. Silage and feed grain mixing and conveying system. 3,468,519, 9-23-69, Cl. 259-9.
Lorenzen, Heinz-Christen: *See—*
Wahle, Gunter; and Lorenzen, Heinz-Christen,3,431,827.
Lorenzen, Walter C., to Anzen Products. Pool cleaning apparatus. 3,483,878, 12-16-69, Cl. 134-167.
Lorenzi, Donald E., to Magnaflux Corporation. Image dissector system having pattern rotation means. 3,480,855, 11-25-69, Cl. 324-38.
Lorenzi, Donald E.; Groble, Kenneth K.; and Retsky, Michael W., to Magnaflux Corporation. Eddy current testing system including bridged-T network. 3,450,985, 6-17-69, Cl. 324-40.
Lorenzino, Paul, Jr.: *See—*
Wilson, Robert O.; and Lorenzino, Paul, Jr.,3,434,046.
Lorette, Nicholas B.: *See—*
Gilbert, Herman S.; and Lorette, Nicholas B.,3,428,412.
Loria, Anthony, to Eastman Kodak Company. 4-Acyloxy-5-pyrazolones. 3,432,521, 3-11-69, Cl. 260-310.
Loria, Anthony, to Eastman Kodak Company. Silver halide emulsion containing two-equivalent yellow dye-forming coupler. 3,447,928, 6-3-69, Cl. 96-100.
Loria, Anthony, to Eastman Kodak Company. Cyan couplers for color photography. 3,458,315, 7-29-69, Cl. 96-56.2
Loria, Anthony, to Eastman Kodak Company. Photographic silver halide elements containing two equivalent cyan couplers. 3,476,563, 11-4-69, Cl. 96-100.
Lorillard Corporation: *See—*
Ganz, Henry, 3,452,392.
Lorillard P., Company, Inc.: *See—*
Block, M Sabel; Sidbury, Melvin D.; and Reich, Melvin F., 3,467,109.
Lorinc, Gaspar, to Nikex Nehezipari Kulkereskedelmi Vallalat. Device for stepless variation of machine stroke length during operation. 3,421,378, 1-14-69, Cl. 74-41.
Loring, Charles A. Tent construction. 3,474,802, 10-28-69, Cl. 135-1.
Loring, Lewis D.; and Voss, Henry J., to Sinclair Research, Inc. Coating composition. 3,455,716, 7-15-69, Cl. 106-268.
Loriston-Clarke, Anthony Grahame: *See—*
Page, Reginald Bannerman; and Loriston-Clarke, Anthony Grahame,3,465,844.
Lorken, Helmut, to Holstein & Kappert Maschinenfabrik 'Phonix' G.m.b.H. Apparatus for manipulating bottles or the like. 3,455,434, 7-15-69, Cl. 198-21.
Loro & Parisini: *See—*
Sborlino, Gino, 3,485,452.
Loro, Alberto, to Northern Electric Company Limited. Fabrication of semiconductor devices. 3,449,825, 6-17-69, Cl. 29-578.
Lorraine Industries, Inc.: *See—*
Aleson, Robert N., 3,454,281.
Barker, Guy, Jr., 3,453,023.
Duncan, Golda A.; and Aleson, Robert N., 3,468,546.
Lorrek, Johannes, to Koppers, Heinrich, Gesellschaft mit beschrankter Haftung. Coke guide car. 3,436,316, 4-1-69, Cl. 202-241.
LoRusso, Rinaldo A.: *See—*
Reynolds, Alex J.; and LoRusso, Rinaldo A.,3,421,268.
Lory, Maurice, to Etablissements E. Quetin. Dental handpiece. 3,452,438, 7-1-69, Cl. 32-28.
Lorz, Werner: *See—*
Dorfelt, Christoph; and Lorz, Werner,3,442,852.
Los Angeles, Calif.: *See—*
Drazin, George E.; and Los Angeles, Calif.,3,420,077.
Losco, Giuseppe, to Montecatini Edison S.p.A. Method of destroying fungi with nitrophenyl sulfonylethylene. 3,436,464, 4-1-69, Cl. 424-337.
Losco, Giuseppe; Rossi, Giorgio; Troiani, Ncola; and Santi, Romano, to Montecatini Edison S.p.A.Process for preparing alkyl esters of O,O- dialkyldithiophosphoryl-α-phenylacetic esters. 3,439,070, 4-15-69, Cl. 260-971.
Losco, Giuseppe: *See—*
Fusco, Raffaello; Losco, Giuseppe; and Perini, Mario,3,462,519.
Losee, Dudley O., to Whittaker Corporation. Rigid sectional radome and method for erecting. 3,427,626, 2-11-69, Cl. 343-872.
Losee, Kathryn Alice: *See—*
Bernstein, Jack; and Losee, Kathryn Alice,3,438,985.
Losenhausen Maschinenbau Aktiengesellschaft: *See—*
Waschulewski, Hans-Georg; Erdmann, Helmut; and Laimann, Gunther, 3,486,427.
Losenhausenwerk Dusseldorfer Maschinenbau Aktiengesellschaft: *See—*
Munk, Hans-Ludwig, 3,446,100.
Losenske, Christa: *See—*
Huter, Ludwig; Losenske, Christa; and Schirmer, Dieter,3,427,130.
Losert, Gerhard K.: *See—*
Ehner, William J.; and Losert, Gerhard K.,3,431,720.
Losey, Jerry E., to Cincinnati Milling Machine Co., The. Electrical discharge machining power supply. 3,483,347, 12-9-69, Cl. 219-69.
Losfeld, Andre. Combination fuze for explosive devices. 3,430,567, 3-4-69, Cl. 102-72.

Loshaek, Samuel; and Salzberg, Harold K., to Borden, Inc. Alcohol soluble casein product for setting human hair. 3,421,918, 1-14-69, Cl. 106-146.
Loshbough, Richard C.: *See—*
Bell, Robert E.; Hall, Donivan L.; and Loshbough, Richard C.,3,435,916.
Loshigian, Henry H., to Uniroyal, Inc. Faired cable. 3,443,020, 5-6-69, Cl. 174-101.5
Los, Marinus, to American Cyanamid Company. Naphthalene and phenanthrone derivatives and methods of preparing the same. 3,446,849, 5-27-69, Cl. 260-586.
Lossa, Ulrich: *See—*
Franzen, Gustav; Lossa, Ulrich; and Heimes, Willi,3,466,865.
Nimtz, Klaus; Heimes, Willy; and Lossa, Ulrich,3,456,432.
Losserand, Paul Amedee Joseph. Injector press for obtaining multicoloured pieces in plastic material. 3,460,203, 8-12-69, Cl. 18-30.
Lostis, Pierre J.: *See—*
Cotton de Bennetot,Michel M.; Lostis, Pierre J.; and Simon, Jacques F.,3,422,297.
Loston, Zallo. Combined brush and scouring mat. 3,428,987, 2-25-69, Cl. 15-114.
Loston, Zallo. Belt employing cuff links or similar fastening means. 3,438,063, 4-15-69, Cl. 2-322.
Lotemp Ignition, Inc.: *See—*
Wright, Gilbert F., 3,445,710.
Loter, Ira; and Long, John E.; to Diamond Shamrock Corporation. Process for making chemically-acidified sour cream type product. 3,437,494, 4-8-69, Cl. 99-144.
Lotesto, Gabriel C.: *See—*
Steinberg, Louis A.; and Lotesto, Gabriel C.,3,471,168.
Loth, Rene A.: *See—*
Helfferich, Friedrich G.; and Loth, Rene A.,3,451,924.
Lothaller, Wolfgang Erich: *See—*
Ahsmann, Gerardus Josephus Maria; Lothaller, Wolfgang Erich; Meyer, Hans Joachim Gustav; and van der Laarse, Jan Willem,3,473,070.
Lothaller, Wolfgang Erich, to U.S. Philips Corporation, mesne. Glow-discharge tubes containing a radio-active primer. 3,461,335, 8-12-69, Cl. 313-226.
Lothman, Mary F., to Sieloff, Kenneth A., and Sieloff, Dorothy L., d/b/a a partnership under the name of Nancy Originals. Decorative night light. 3,433,939, 3-18-69, Cl. 240-10.
Lothmann, Franz, to Dorries, O., Gesellschaft mit beschrankter Haftung. Tool. 3,452,442, 7-1-69, Cl. 33-185.
Lotmar, Walter, to Research Corporation. Method and apparatus for the coagulation of small areas of the retina of the eye. 3,467,099, 9-16-69, Cl. 128-303.1
Lotspeich, James F., to Hughes Aircraft Company. Electro-optic variable focal length lens. 3,424,513, 1-28-69, Cl. 350-180.
Lotspeich, Joseph A.; and Lotspeich, Joseph F., to Warco Industries, Inc. Safety lock for electrically operated relays. 3,448,420, 6-3-69, Cl. 335-253.
Lotspeich, Joseph F.: *See—*
Lotspeich, Joseph A.; and Lotspeich, Joseph F.,3,448,420.
Lotspih, Anthony J.: *See—*
Tremain, David L.; and Lotspih, Anthony J.,3,437,046.
Lott, Chancy M., 31.37% to Taylor, Christopher G. 15% to Morgan, Vic, doing business as Morgan, Vic, Associates 17.26% to McKerracher, William 7.84% to Mahoney, Thomas P. 2.50% to Wallace, Lawrence G., and 2.50% to Carter, C. L. Building structure having spiral transportation ramp thereon. 3,440,781, 4-29-69, Cl. 52-175.
Lott, Harry, Jr.; Dietz, Albert; and Darr, Donald E., to PPG Industries, Inc. Process for preparing improved titanium dioxide. 3,468,689, 9-23-69, Cl. 106-300.
Lott, Harry, Jr.: *See—*
Wilson, William L.; Lott, Harry, Jr.; and Dietz, Albert,3,433,594.
Lott, James S., Jr.: *See—*
Uberbacher, Edward C.; and Lott, James S., Jr.,3,425,027.
Lott, Jerry L.: *See—*
Hashemi, Hadi T.; and Lott, Jerry L.,3,431,747.
Lott, Roy E., Jr.: *See—*
Brown, Warren G.; and Lott, Roy E., Jr.,3,443,246.
Lott, William J., Jr. Rare coin display device. 3,425,538, 2-4-69, Cl. 206-0.83
Lott, William R.: *See—*
Bayley, Graham Edward; and Lott, William R.,3,462,825.
Lotter, Hans-Georg: *See—*
Bottenbruch, Ludwig; Lotter, Hans-Georg; and Schnell, Hermann,3,437,638.
Lotter, William; and De Vos, Frank, to South Bend Range Corporation. Convection oven. 3,463,138, 8-26-69, Cl. 126-21.
Lotti, Louis B., to Stellar Engineering, Inc. Hydraulic leak testing system and apparatus. 3,438,246, 4-15-69, Cl. 73-40.
Lotti, Louis B.; and Bates, Donald W., to Stellar Engineering, Inc. Hydraulic leak testing system and apparatus. 3,438,247, 4-15-69, Cl. 73-40.
Lotti, runo: *See—*
Musante, Carlo; Donatelli, Leonardo; and Lotti, runo,3,483,194.
Lotwis, John J., Jr., to Bendix Corporation, The. Apparatus for detecting the level of an unknown voltage relative to the level of a known voltage. 3,444,466, 5-13-69, Cl. 324-98.
Lotz, Charles W., to General Electric Company. Evaporator unit with integral liquid heater. 3,453,181, 7-1-69, Cl. 202-173.
Lotz, Horst K., to Messer Griesheim G.m.b.H. Supervisory equipment for cutting torch machines in continuous casting installations. 3,428,302, 2-18-69, Cl. 266-23.
Lotz, Horst K., to Messer Griesheim G.m.b.H. Torch control. 3,432,366, 3-11-69, Cl. 148-9.5
Lotz, Johannes, to Telefunken Patentverwertungsgesellschaft m.b.H. Separation of individual wafers of a semiconductor disc. 3,461,537, 8-19-69, Cl. 29-413.
Lotz, William B., to Container Corporation of America. Display carton having a film overlap. 3,445,053, 5-20-69, Cl. 229-37.
Lotzsch, Lothar, to ETMA Maschinenfabrik G.m.b.H. Apparatus for cooling and condensing gases. 3,426,446, 2-11-69, Cl. 34-77.
Lou Lombard, Inc.: *See—*
Mounier, Bruce; and Lombard, Louis, 3,486,264.
Lou Ma, Roberto Edgar. Apparatus for testing the compressive strength of soil specimens. 3,443,423, 5-13-69, Cl. 73-84.
Loubet, Michel: *See—*
Feutrel, Claude; Loubet, Michel; and Luce, Gerard,3,466,975.
Louda, Zdenek: *See—*
Cerman, Josef; Louda, Zdenek; Nepozitek, Ladislav; and Zak, Erantisek,3,486,573.
Louden, Max: *See—*
Glover, Wayne H.; Southworth, Robert K.; Rasmussen, David E.; Unterberg, William J.; and Louden, Max,3,439,188.
Louden, William C., to General Electric Company. Niobium end seal. 3,448,319, 6-3-69, Cl. 313-221.
Louden, William C., to General Electric Company. Method of sealing zirconium hydride coated niobium end caps to alumina ceramic envelopes. 3,479,170, 11-18-69, Cl. 65-59.
Louden, William C.: *See—*
Sarver, James F.; and Louden, William C.,3,441,421.
Loudon, Percy O. Fish feeding device. 3,477,407, 11-11-69, Cl. 119-51.
Lough, John C.: *See—*
Keane, John J.; and Lough, John C.,3,431,135.
Loughead, Aaron G., to United States of America, Army. Magnetic field intensity meter. 3,445,761, 5-20-69, Cl. 324-47.
Loughlin, Bernard D., to Hazeltine Research, Inc. Black level control circuit for a television receiver. 3,441,670, 4-29-69, Cl. 178-7.5
Loughlin, Desetta B. Food grating device. 3,441,070, 4-29-69, Cl. 146-178.
Loughlin, James: *See—*
Harper, Jack R.; and Loughlin, James,3,434,331.
Loughman, John I.: *See—*
Kosiorek, Raymond; and Loughman, John I.,3,463,647.
Loughman, Stephen Robinson: *See—*
Wild, Franklin J.; and Loughman, Stephen Robinson,3,442,240.
Loughran, Eugene F.; and Balnis, Joseph J., to Consolidated Electronics Industries Corporation. Instantaneous speed shift gear mechanism. 3,426,608, 2-11-69, Cl. 74-393.
Loughren, Arthur V. Controlled ink-jet copy-reproducing apparatus. 3,476,874, 11-4-69, Cl. 178-6.6
Loughridge, Raymond H.; and Trybus, Conrad, to Goodyear Aerospace Corporation. High speed mechanical variable amplitude nutating mechanism. 3,432,218, 3-11-69, Cl. 350-6.
Loughry, Donald J.: *See—*
Ragen, Jack R.; and Loughry, Donald J.,3,457,414.
Loughry, Horton Hampton. Hypodermic injection syringe controlled by pressure of discharge. 3,425,416, 2-4-69, Cl. 128-218.
Louis, Georges: *See—*
Upham, George B.; Mayer, Fernand; and Louis, Georges,3,424,440.
Louis, Helmut P.; and Methfessel, Siegfried, to International Business Machines Corporation. Magneto-optical data storage. 3,475,738, 10-28-69, Cl. 340-174.
Louis, Jean F., to Avco Corporation. Closed cycle magnetohydrodynamic generator. 3,487,240, 12-30-69, Cl. 310-11.
Louis, John R.: *See—*
Hornfeck, Anthony J.; Koppel, Harold H.; and Louis, John R.,3,479,492.
Louis, John R. Logic circuit. 3,423,602, 1-21-69, Cl. 307-235.
Louis, Joseph Edmund: *See—*
Frandsen, Lee Raymond; and Louis, Joseph Edmund,3,455,184.
Louis, Leo, to Hegenscheidt, Wilhelm, Kommanditgesellschaft. System for automatic control of movement of a movable structure through a preselected length of its displacement path. 3,427,519, 2-11-69, Cl. 318-18.
Louis, Melis N.; and Weingarten, Deszo, to N.V. Fabriek Van Chemische Producten Vondelingenplaat. Stabilized manganese ethylene bisdithiocarbamate and process. 3,436,456, 4-1-69, Cl. 424-249.

Louis, Melis N.; and Weingarten, Deszo, to N.V. Fabriek Van Chemische Producten Vondelingenplaat. Stabilized manganese ethylene bisdithiocarbamate and process. 3,436,457, 4-1-69, Cl. 424-249.

Louis, Ronald A., to Bell Telephone Laboratories, Incorporated. Ringing arrangement for time division telephone systems. 3,443,033, 5-6-69, Cl. 179-15.

Louisiana Hydrolec, Incorporated: *See—*
Riley, Orey L.; and Mamoulides, John M., 3,420,301.

Louissen, Antienus: *See—*
Kooi, Cornelis Marius; and Louissen, Antienus,3,477,925.

Loukes, David Gordon; and Buckley, Edward Albert, to Pilkington Brothers Limited. Method of coloring glass. 3,438,760, 4-15-69, Cl. 65-30.

Loukes, David Gordon; and Hardman, James Maurice, to Pilkington Brothers Limited. Oxidation method of producing glass having an increased breaking strength. 3,453,095, 7-1-69, Cl. 65-30.

Loukes, David Gordon; and Hay, Alan Edward, to Pilkington Brothers Limited. Process and apparatus for vacuum purification of the float glass bath. 3,480,420, 11-25-69, Cl. 65-27.

Loukes, David Gordon; and Merryweather, Robin Arnold, to Pilkington Brothers Limited. Method and apparatus for float glass dross entrapment. 3,467,512, 9-16-69, Cl. 65-99.

Loukes, David Gordon; and Nightingale, Glen, to Pilkington Brothers Limited. Float glass surface modification process. 3,467,508, 9-16-69, Cl. 65-30.

Loukes, David Gordon; and Robinson, Albert Sidney, to Pilkington Brothers Limited. Apparatus for the manufacture of flat glass with liquid seal means. 3,486,877, 12-30-69, Cl. 65-182.

Loukes, David Gordon; and Smith, Roy, to Pilkington Brothers Limited. Method of forming a glass sheet on a molten metal bath. 3,423,197, 1-21-69, Cl. 65-32.

Louks, Robert A.; and Sietmann, Vernon H., said Sietmann assor. of 14/40 to Dendel, Gerald F. Blowing apparatus for use with threshing machine riddles. 3,456,652, 7-22-69, Cl. 130-27.

Lounsberry, Ernest D.: *See—*
Bird, John D.; Garner, Howell D.; Lounsberry, Ernest D.; and Thomas, David F.,3,420,471.

Lourie, Cary H.: *See—*
Yildirim, Uyanik; Malow, Monroe; Lourie, Cary H.; and Evans, Barry,3,429,939.

Louthan, George R., to Case, J. I., Company. Auxiliary stripper for combine. 3,423,915, 1-28-69, Cl. 56-158.

Louthan, Rector P., to Phillips Petroleum Company. Plasticized sulfur compositions. 3,434,852, 3-25-69, Cl. 106-19.

Louthan, Rector P., to Phillips Petroleum Company. Preparation of amino-substituted sulfoxides and sulfones. 3,472,898, 10-14-69, Cl. 260-583.

Louvar, Cecelia J.: *See—*
Lester, George R.; and Louvar, Cecelia J.,3,484,499.

Louvar, James J., to Universal Oil Products Company. Preparation of substituted aromatic compounds. 3,480,533, 11-25-69, Cl. 204-658.

Louvel, Bernard, to Societe Nationale des Petroles d'Aquitaine. Automatic control of the base line in the utilization of variable electrical response. 3,460,035, 8-5-69, Cl. 324-103.

Louver Manufacturing Co., Inc.: *See—*
Belden, Merland C., 3,460,855.

Louverdrape, Inc.: *See—*
Rosenquist, Kurt E., 3,486,549.

Louviere, Allen J.; and Nicholson, Leonard S. Underwater survey. 3,447,124, 5-27-69, Cl. 340-4.

Louw, Johan A. Desalination method and apparatus with plural vaporization chambers containing shallow layers of liquid. 3,440,146, 4-22-69, Cl. 203-11.

Loux, Harvey M.: *See—*
Klopping, Hein L.; and Loux, Harvey M.,3,454,567.

Loux, Harvey M., to Du Pont de Nemours, E. I., and Company. 3-Amino-5,5-dihalo-6-alkyl-6-alkoxy hydrouracils. 3,466,280, 9-9-69, Cl. 260-247.2

Loux, Harvey M., to Du Pont de Nemours, E. I., and Company. 3-Heterocyclicamimo uracils. 3,466,285, 9-9-69, Cl. 260-256.4

Louzil, Friedrich; Appel, Arne; and Habelt, Gerhard, to U.S. Philips Corporation, mesne. Switching arrangement in dictating machines. 3,445,613, 5-20-69, Cl. 200-52.

Louzos, Demetrios V., to Union Carbide Corporation. Electrolyte for solions. 3,477,958, 11-11-69, Cl. 252-62.2

Louzos, Demetrious V.: *See—*
Davee, Robert L.; and Louzos, Demetrious V.,3,432,351.

Lovas, George: *See—*
Toth, Joseph; and Lovas, George,3,440,750.

Lovas, Stephen P.; and Di Monico, George S., to Royal Packaging Equipment, Inc. Web aperturing means. 3,422,712, 1-21-69, Cl. 83-124.

Lovatt, Michael: *See—*
Simpkins, John Oliver; and Lovatt, Michael,3,467,019.

Love, David Christopher: *See—*
Scoffield, Eric George; and Love, David Christopher,3,479,131.

Love, Gordon W., deceased0 (by Love, Mildred W.0Simon, Stanley A., co-executors). Self-locking spring sash balance for tiltably-removable sash windows. 3,434,237, 3-25-69, Cl. 49-181.

Love, John A., III; and Sizelove, John R., to United States of America, Air Force. High ohmic semiconductor tuned narrow bandpass barrier photodiode. 3,435,236, 3-25-69, Cl. 250-211.

Love, John A., III; and Sizelove, John R., to United States of America, Air Force. Low ohmic semiconductor tuned narrow bandpass barrier photodiode. 3,452,204, 6-24-69, Cl. 250-211.

Love, John D.; and Bason, George S., Jr., to Love Tractor Sales, Inc. Tobacco harvesting machine. 3,453,018, 7-1-69, Cl. 296-5.

Love, Kenneth George: *See—*
Barker, John; Gonek, Stanislaw Mieczyslaw; and Love, Kenneth George,3,453,407.

Love, Leon O.: *See—*
Lee, John V.; and Love, Leon O.,3,432,709.

Love, Mahlon Lloyd, to Deere & Company. Remotely controlled combine unloading auger. 3,452,885, 7-1-69, Cl. 214-38.

Love, Michael, to Mida Mfg. Inc. Earring clasp. 3,456,307, 7-22-69, Cl. 24-252.

Love, Mildred W.: *See—*
Love, Gordon W.,3,434,237.

Love, Robert B., to Amsted Industries Incorporated. Railway car center plate. 3,452,686, 7-1-69, Cl. 105-420.

Love, Robert B., to Amsted Industries Incorporated. Railway car and truck roll stabilizer. 3,459,139, 8-5-69, Cl. 105-199.

Love, Robert G., to Halliburton Company. Temperature compensating system for density meters. 3,431,785, 3-11-69, Cl. 73-434.

Love, Robert G., to Halliburton Company. Variable frequency pressure transducer. 3,478,594, 11-18-69, Cl. 73-398.

Love, Robert G.: *See—*
Moeller, R. E.; Love, Robert G.; and Pittman, Forrest C.,3,446,667.

Love Tractor Sales, Inc.: *See—*
Love, John D.; and Bason, George S., Jr., 3,453,018.

Love, William C., to Steere Enterprises Inc. Boot for one or more seat belts. 3,436,097, 4-1-69, Cl. 280-150.

Lovegreen, Alan Trevor. Classification of granular materials. 3,444,998, 5-20-69, Cl. 209-159.

Lovegreen, Alan Trevor. Classification of granular materials. 3,482,691, 12-9-69, Cl. 209-156.

Lovegreen, Alan T. Conveyor belts. 3,428,164, 2-18-69, Cl. 198-193.

Lovegren, Norman V.: *See—*
Feuge, Reuben O.; Lovegren, Norman V.; and Gajee, Betty B.,3,431,116.

Lovegrove, Brian Walter, to MSE Holdings Limited. Arrangement for sensing required speeds of a centrifuge. 3,422,333, 1-14-69, Cl. 318-333.

Lovegrove, Henry Joseph, to Sangamo Electric Company. Electrical metering apparatus for measuring electri- cal energy in the form of kilowatt-hours and ampere-squared hours. 3,428,895, 2-18-69, Cl. 324-116.

Lovejoy, Charles K.: *See—*
Daugherty, Phillip M.; Lovejoy, Charles K.; and Vaughan, Harry L.,3,467,564.

Lovejoy Tool Company, Inc.: *See—*
Owsen, Paul J., 3,463,048.

Lovekin, Barry W., to Wilkinson Sword Limited. Electrolytic cell for sharpening the edge of a razor blade. 3,470,081, 9-30-69, Cl. 204-28.

Lovelace, Byron K.: *See—*
Granberry, Doyle S.; McCalip, Robert L.; and Lovelace, Byron K.,3,431,636.

Lovelace, Donald E., to Endevco Corporation. Strain gauge. 3,444,499, 5-13-69, Cl. 338-2.

Loveland, Chester L.: *See—*
Baglino, John P.; Gubitose, Nicholas F.; Rappenglueck, Joseph R.; and Loveland, Chester L.,3,464,196.

Loveland, Chester L., to U.S. Textile Machine Company. Jet fiber texturizer. 3,479,707, 11-25-69, Cl. 28-1.

Loveland, Ernest Frederick: *See—*
Myatt, Edward Ronald; Loveland, Ernest Frederick; and Woodhead, Harry Stanley,3,460,077.

Loveland, Malcolm W.: *See—*
Blakewell, Roland F.; Lanzinger, Robert H.; and Loveland, Malcolm W.,3,444,912.

Loveland, Malcolm W., to Atlas Pacific Engineering Company, mesne. Method and means for peeling pineapples. 3,473,588, 10-21-69, Cl. 146-241.

Loveland, Robert; and Downie, George, to Gaskell & Chambers Limited. Liquid dispensing device. 3,464,595, 9-2-69, Cl. 222-249.

Loveland, Winton; and Warshaw, Saul, to Loveshaw Corporation. Tape applying mechanism equipped with means to eliminate a tape fold. 3,451,875, 6-24-69, Cl. 156-468.

Loveland, Winton; and Warshaw, Saul, to Loveshaw Corporation, The. Tape applying mechanism equipped with tape tensioning means. 3,461,020, 8-12-69, Cl. 156-468.

Loveland, Winton; and Warshaw, Saul, to Loveshaw Corporation, The. Tape applying mechanism. 3,468,742, 9-23-69, Cl. 156-468.

Loveless, Don L.: *See—*
Granfors, Ernest A.; Loveless, Don L.; Boyle, Charles F.; and Kompanek, Harry W.,3,444,508.
Loveless, Edgar Lloyd: *See—*
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd,3,420,083.
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd,3,423,254.
Loveless, Frederick C., to Uniroyal, Inc. Quaternary ammonium halides or tertiary amine hydro- halides as molecular weight regulators in coordina- tion catalyst polymerization systems for olefins. 3,459,718, 8-5-69, Cl. 260-80.78
Loveless, Frederick C.; and Kelly, Robert J., to Uniroyal, Inc. Epoxidized, hydroxylated and maleated EPDM. 3,448,174, 6-3-69, Cl. 260-878.
Loveless, Frederick C.: *See—*
Miller, Robert; Farber, Milton; and Loveless, Frederick C.,3,432,250.
Loveless, Henry L. Combined lock pick holder and tool. 3,452,562, 7-1-69, Cl. 70-394.
Loveless, James C.: *See—*
Coker, Donald G.; and Loveless, James C.,3,447,181.
Loveless, Stanley M., to General Gas Light Company. High-pressure valve with low-pressure operating device. 3,470,910, 10-7-69, Cl. 137-625.6
Lovell, Clarence Anding. Alarm system connected to a telephone subscriber's circuit so as to transmit an alarm through the central office without interfering with normal telephone operation. 3,484,553, 12-16-69, Cl. 279-2.
Lovell, Gary E.; and Conover, Tom E., to Martin-Marietta Corporation. Redundant computer systems. 3,444,528, 5-13-69, Cl. 340-172.5
Lovell, George V., of 1/2 to Cohaly, Fox B. Tape cleaning apparatus. 3,434,273, 3-25-69, Cl. 57-56.
Lovell, Jack, to Stanwick Corporation, The. Method for maneuvering a vessel with respect to its station. 3,463,114, 8-26-69, Cl. 114-230.
Lovell, James Byron; and Baer, Ronald William, to American Cyanamid Company. Controlling mosquito larvae and other insects with O,O,O'O'-tetramethyl O,O'-thiodi-*p*-phenylene phosphorothioate. 3,459,856, 8-5-69, Cl. 424-206.
Lovell, John A., to Goodyear Tire & Rubber Company, The. Polyoxyalkylene glycols prepared from tetrahydrofuran. 3,487,115, 12-30-69, Cl. 260-615.
Lovell, John E.: *See—*
Barrekette, Euval S.; Freiman, Charles V.; Gazis, Denos C.; and Lovell, John E.,3,453,595.
Lovell Manufacturing Company: *See—*
Gutknecht, Leroy H., 3,443,408.
Horrobin, Paul M., 3,466,903.
Lovell, Walter C. Bottle caps. 3,450,291, 6-17-69, Cl. 215-39.
Lovellette, Cline W.: *See—*
Poulton, Curt A.; and Lovellette, Cline W.,3,487,194.
Lovelock, Leonard Robert; Way, Kenneth Richard; and Wren, Robert Henry, to International Standard Electric Corporation. Epoxide resin seals. 3,479,204, 11-18-69, Cl. 117-46.
Lovely, John D., to Electrohome Limited. Circuit for automatically varying colour temperature between monochrome and colour reception in a compatible colour television receiver. 3,463,875, 8-26-69, Cl. 178-5.4
Lovendahl, Norman H. Precision position indicator. 3,475,983, 11-4-69, Cl. 74-395.
Lovens Kemiske Fabrik Produktionsaktieselskab: *See—*
Godtfredsen, Wagn Ole; and Von Daehne, Welf, 3,463,798.
Godtfredsen, Wagn Ole, 3,474,089.
Loveshaw Corporation: *See—*
Loveland, Winton; and Warshaw, Saul, 3,451,875.
Loveshaw Corporation, The: *See—*
Loveland, Winton; and Warshaw, Saul, 3,461,020.
Loveland, Winton; and Warshaw, Saul, 3,468,742.
Lovestrand, Gordon L., to Caterpillar Tractor Company. Relieved cylinder head. 3,483,856, 12-16-69, Cl. 123-193.
Lovett, Joe B., to Dow Chemical Company, The. Dispensing apparatus. 3,419,934, 1-7-69, Cl. 18-4.
Lovette, Henry H.; and Hill, Earl W. Method of making an innerspring body supporting article. 3,452,127, 6-24-69, Cl. 264-113.
Lovgren, James. Arrangement on ice-skating ice. 3,471,216, 10-7-69, Cl. 350-117.
Lovick, Robert C.; and Scheg, Robert F., to Eastman Kodak Company. Control system for re-recorders which senses and compares original and copy records. 3,485,961, 12-23-69, Cl. 179-100.2
Lovingham, Joseph J., to Thiokol Chemical Corporation. Control for adjusting proportions of bi- propellants. 3,433,022, 3-18-69, Cl. 60-258.
Lovingham, Joseph J., to Thiokol Chemical Corporation. Rocket thrust nozzle. 3,481,543, 12-2-69, Cl. 239-127.3
Lovingham, Joseph J.; and Kircher, Hartmann J., III, to Thiokol Chemical Corporation. Missile and powerplant. 3,482,404, 12-9-69, Cl. 60-259.
Lovingham, Joseph J.; and Sossong, Henry J., to Thiokol Chemical Corporation. Control for bipropellants in rocket engine. 3,431,732, 3-11-69, Cl. 60-247.
Lovins, Amory B. Method and means for observing nuclear magnetic resonances. 3,430,128, 2-25-69, Cl. 324-0.5
Lovitz, David D., to Sternco Industries, Inc. Hanger device for supporting an article on a wall member. 3,477,679, 11-11-69, Cl. 248-309.
Lovlya, Sergei Alexandrovich: *See—*
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich,3,447,625.
Lovness, Donald E., to Minnesota Mining and Manufacturing Company. Resinous composition with fluorinated antimigration agent. 3,428,594, 2-18-69, Cl. 260-31.8
Lovrenich, Rodger Thomas: *See—*
Hardin, James Theodore; and Lovrenich, Rodger Thomas,3,473,110.
Lovullo, Patrick R., to National Gypsum Company. Ceiling construction. 3,461,630, 8-19-69, Cl. 52-493.
Low, John Lewis, III: *See—*
Archer, Bill; and Low, John Lewis, III,3,469,358.
Archer, Bill; and Low, John Lewis, III,3,471,980.
Lowd, Judson D., to Combustion Engineering, Inc. Off-shore tank system. 3,469,402, 9-30-69, Cl. 61-1.
Lowdermilk, Marvin J., to Electro-Nite Co. Expendable thermocouple with locater means. 3,427,208, 2-11-69, Cl. 136-235.
Lowe, Alan R. Decorative electric light system. 3,452,247, 6-24-69, Cl. 315-75.
Lowe, Albert Henry, to Pilkington Brothers Limited. Double glazing units. 3,467,430, 9-16-69, Cl. 294-65.
Lowe, Betty J. Toy drinking kit. 3,434,512, 3-25-69, Cl. 141-18.
Lowe, Charles B. Metal bearing failure detector. 3,422,417, 1-14-69, Cl. 340-270.
Lowe, Charles Thomas. Hinges, butt type. 3,445,883, 5-27-69, Cl. 16-128.
Lowe, Dale R.: *See—*
Christian, Hugh S.; Lowe, Dale R.; Ulrick, Charles J.; and Womack, Charles P.,3,465,101.
Lowe, David W.: *See—*
Voigt, Robert H.; and Lowe, David W.,3,425,009.
Lowe, Edward Ivan: *See—*
Rusling, Eric John; and Lowe, Edward Ivan,3,461,307.
Lowe, Edwin C., to Robbins Aviation, Inc. Dynamic shaft seal. 3,427,034, 2-11-69, Cl. 277-200.
Lowe, Edwin C., to Robbins Aviation, Inc. High pressure valve. 3,428,076, 2-18-69, Cl. 137-329.05
Lowe, Jack W., Jr.; and Teague, Gilliam S., Jr., to Eastman Kodak Company. Acrylic resins containing cellulose butyrate benzoate, coatings and compositions. 3,429,840, 2-25-69, Cl. 260-15.
Lowe, James B.: *See—*
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B.,3,470,686.
Lowe, James H.: *See—*
Oshida, Otto A.; Gilmore, John P.; and Lowe, James H.,3,441,515.
Lowe, John C., to Broadway Research & Development Corporation. Method and apparatus for clarifying water. 3,434,968, 3-25-69, Cl. 210-44.
Lowe, Jung Y. Material carrier unloading means and method. 3,442,406, 5-6-69, Cl. 214-62.
Lowe, Larry L.; and Chase, Gordon G., to North American Rockwell Corporation. Superconductor joint. 3,449,818, 6-17-69, Cl. 29-470.5
Lowe, Leonard F.: *See—*
Morgan, Lemuel J.; and Lowe, Leonard F.,3,446,939.
Lowe, Lyall L. Clamp supports for automobile rocker panels. 3,447,727, 6-3-69, Cl. 224-42.1
Lowe, Norman E. Cord control mechanism for roller shades. 3,424,224, 1-28-69, Cl. 160-308.
Lowe, Ora D. Rack for neckties. 3,472,389, 10-14-69, Cl. 211-60.
Lowe, Raymond E., to Shell Oil Company. Shothole drilling method. 3,434,549, 3-25-69, Cl. 175-1.
Lowe, Walter Max; and Squirrell, Frederick, to Thermo-Technical Development Limited. Isolators for the gas-tight sectionalization of flues and ducts. 3,460,457, 8-12-69, Cl. 98-1.
Lowe, Warren, to Chevron Research Company. Alkenyl succinimide-antimony dithiophosphate combinations in lubricants. 3,428,563, 2-18-69, Cl. 252-32.7
Lowe, Warren, to Chevron Research Company. Lubricant compositions containing rust inhibitors. 3,434,972, 3-25-69, Cl. 252-51.5
Lowe, Warren: *See—*
Stuart, Frank A.; Stewart, William T.; Lowe, Warren; and Kavanagh, Frank W.,3,428,615.
Lowe, Wilfrit, to Sohn, C. H. Boehringer. Process for isolation of,5-dichorophenol from an isomeric mixture of dichlorophenols. 3,462,498, 8-19-69, Cl. 260-623.

Lowe, William R.: *See—*
Ayer, Donald R.; and Lowe, William R.,3,470,469.
Pope, Joseph A.; and Lowe, William,3,473,416.
Pope, Joseph Albert; Lowe, William; and Ellis, Geoffrey Hender Stuart,3,430,508.
Lowell, Arthur I.: *See—*
Harrison, James B.; Mageli, Orville L.; and Lowell, Arthur I.,3,420,807.
Lowell, Arthur I., to Mobil Oil Corporation. Process for the suspension polymerization of vinyl aromatic monomers. 3,449,311, 6-10-69, Cl. 260-93.5
Lowell, John A.; and Buechler, Peter R., to Rohm & Haas Company. Process and compositions for treating leather and leathers obtained. 3,441,365, 4-29-69, Cl. 8-94.21
Lowell Molding Corporation: *See—*
Forma, Anthony P., 3,474,476.
Lowell, Rudolph L.: *See—*
Kucera, Joseph B., 3,448,871.
Lowenheim, Frederick A., to M & T Chemicals, Inc. Process for treating metals. 3,476,551, 11-4-69, Cl. 75-98.
Lowenstein, Albert: *See—*
Rutzen, Horst; and Lowenstein, Albert,3,479,297.
Lowenstein, M., & Sons, Inc.: *See—*
Bray, Horace D., 3,474,509.
Weisz, Herman S.; and Downing, Parker W., 3,447,888.
Lower, George William, to American Cyanamid Company. Recovery of copper and cyanide from solutions thereof by solvent extraction. 3,429,694, 2-25-69, Cl. 75-117.
Lower, George William, to American Cyanamid Company. Electrolytic recovery of copper from copper cyanide leaching solutions. 3,463,710, 8-26-69, Cl. 204-106.
Lower Manufacturing Co., Inc.: *See—*
Belden, Merland C., 3,481,263.
Lowery, Alexander B., to Greenlife Products Company. Easy sidewalk edger. 3,450,209, 6-17-69, Cl. 172-18.
Lowery, Carthel D. Visual inspection media and mode of operation. 3,452,189, 6-24-69, Cl. 240-2.18
Lowery, Charles A., Jr.; and Videka, Mark J., to Zenith Radio Corporation. Electron-discharge devices. 3,465,401, 9-9-69, Cl. 29-25.16
Lowery, Charley. Combination leveler, root cutter and harrow. 3,467,199, 9-16-69, Cl. 172-261.
Lowery, Christopher Haydn; and Wilson, Geoffrey Charles, to Ferranti, Limited. Deposition of gold on a tin nickel surface. 3,427,181, 2-11-69, Cl. 117-50.
Lowery, Christopher John: *See—*
Connolly, James Massey; and Lowery, Christopher John,3,459,512.
Lowery, Deborah Joy: *See—*
Lowery, James I., 3,432,868.
Lowery, George M. Cleaning device. 3,431,055, 3-4-69, Cl. 401-28.
Lowery, Huey P., to Central Inspection Service, Inc. Electrical attachment for tanks. 3,454,704, 7-8-69, Cl. 174-18.
Lowery, James I., 10% each to Lowery, Ronald James, Lowery, Deborah Joy, and Lowery, Peggy Ann. Float-equipped wading boots with propelling fins. 3,432,868, 3-18-69, Cl. 9-343.
Lowery, Peggy Ann: *See—*
Lowery, James I., 3,432,868.
Lowery, Robert D.: *See—*
Sacchini, Columbus R.; and Lowery, Robert D.,3,451,512.
Lowery, Ronald James,: *See—*
Lowery, James I., 3,432,868.
Lowery, Throck M.: *See—*
Renneker, Dennis N.; and Lowery, Throck M.,3,434,367.
Lowes, Fred J., Jr., to Dow Chemical Company, The. Mild alkaline oxidation treatment of poly- acrylonitrile fibers or films to improve flexibility and dyeability. 3,460,897, 8-12-69, Cl. 8-115.5
Lowe's Inc.:*See—*
Burns, Edgar V., 3,482,548.
Lowey, Hans. Timed release sublingual medications. 3,428,728, 2-18-69, Cl. 424-14.
Lowman, Walker B.; and Felty, Richard D., to Industrial Nucleonics Corporation. Statistical sampling of a moving product using a guaging device with a variable sensing area functionally related to a variable product speed. 3,440,421, 4-22-69, Cl. 250-83.6
Lowmaster, Richard L., to Mathews Company, The. Vehicular sign. 3,481,059, 12-2-69, Cl. 40-10.
Lown, Charles S., to Westvaco Corporation. Apparatus and method for measuring the concentration of a suspension including compensating for color by using the measurement of scattered light to electronically influence the value of direct light measured. 3,450,886, 6-17-69, Cl. 250-218.
Lowrey, Erlend R.: *See—*
Hatton, William A.; and Lowrey, Erlend R.,3,428,461.
Lowrey, William E.: *See—*
Anderson, Clifford E.; and Lowrey, William E.,3,442,286.
Lowrie, William Winning. Sorter and feeder for dishwashing machines. 3,446,350, 5-27-69, Cl. 209-97.
Lowry, Alan B., to Gillette Company, The. Blade dispenser with used blade compartment. 3,460,712, 8-12-69, Cl. 221-102.
Lowry, Benjamin S., Jr.: *See—*
Dotson, Ronald L.; and Lowry, Benjamin S., Jr.,3,450,607.
Lowry, Clyde E. Urinal assembly. 3,422,463, 1-21-69, Cl. 4-110.
Lowry Development Corporation: *See—*
Lowry, Robert D.; and Strout, Russell B., 3,421,411.
Lowry, Hubert E. Ball caster. 3,456,281, 7-22-69, Cl. 16-25.
Lowry, Robert D.; and Strout, Russell B., to Lowry Development Corporation. Weld trimming apparatus. 3,421,411, 1-14-69, Cl. 90-12.
Lowry, Terrell N.; and Smathers, John E., to Bell Telephone Laboratories, Incorporated. Reed relay shift register and counter circuits. 3,456,241, 7-15-69, Cl. 340-168.
Lowther, Herbert A. Friction drive transmission. 3,487,428, 12-30-69, Cl. 74-202.
Lowy, Paul M., to Mesta Machine Company. Automatic threading device for rolling mills. 3,422,649, 1-21-69, Cl. 72-10.
Loxley, Thomas E.; Sloop, James L.; and Wieland, Michael S., to United States of America, Navy. Multiple missile velocity measuring apparatus. 3,447,077, 5-27-69, Cl. 324-70.
Loy, Bros. Proprietary Limited: *See—*
Kawchitch, Claude Edward, 3,433,380.
Loyd, Calvin D.; and Yocum, Ralph W., to Caterpillar Tractor Company. Precombustion chambers. 3,429,591, 2-25-69, Cl. 285-189.
Loyd, Calvin D.: *See—*
Farmer, Charels G.; Loyd, Calvin D.; Miller, Robert G.; and Oberle, Theodore L.,3,462,826.
Grawey, Charles E.; and Loyd, Calvin D.,3,471,180.
Oberle, Theodore L.; Calton, Marion R.; and Loyd, Calvin D.,3,452,914.
Oberle, Theodore L.; Calton, Marion R.; Loyd, Calvin D.; and White, Claude F.,3,435,510.
Loyd, Raymond E.: *See—*
Ring, Clinton E.; and Loyd, Raymond E.,3,450,021.
Loyen, Roger, to Etat Francais (French State) represented by the Minister of Armed Forces, Ministerial Delegation for Armament, Direction of Researches and Manufacture of Armament Laboratory of Ballistic and Aerodynamic researches. Photographic spark generator having a very high frequency bridge trigger. 3,426,247, 2-4-69, Cl. 315-149.
Loyster, Earl L.: *See—*
Childs, Robert S.; and Loyster, Earl L.,3,471,192.
Lozano, Anthony H.; and Kottsieper, Edward, to Shur Lok Corporation. High-speed nut and lockwasher. 3,486,544, 12-30-69, Cl. 151-29.
Lozano, Luis J.: *See—*
Bray, Robert S.; Lozano, Luis J.; and Kabelka, Peter J.,3,469,430.
Lozano, Robert: *See—*
Ham, Coy S.; Raub, Lyly; Joyce, Jack E.; and Lozano, Robert,3,481,841.
Lozeau, Homer A., to Koehler Manufacturing Company. Safety lighting equipment. 3,458,697, 7-29-69, Cl. 240-11.3
Lozeau, Paul R.: *See—*
Schaller, Frank H.; Richter, Eugene G.; and Lozeau, Paul R.,3,421,754.
Lozier, Paul G.: *See—*
Beck, Clarence J.; Birnby, Martin R.; and Lozier, Paul G.,3,429,798.
Lozier, William B., Jr.; and Luciani, Joseph D., to International Business Machines Corporation. Character recognition system using a plurality of delayed scans for determining character features. 3,482,210, 12-2-69, Cl. 340-146.3
Lozow, Donald L.: *See—*
Durand, Roy L., 3,467,359.
LPL Corporation: *See—*
Lee, Sung Chuel; and Palubniak, Paul, 3,456,648.
Lriokhin, Vladimir Ivanovich: *See—*
Karakashian, Zaven Oganezovich; Lriokhin, Vladimir Ivanovich; and Kazakov, Valentin Mikhailovich,3,420,339.
LSutton Research Corporation: *See—*
Briskin, Theodore S.; and Ward, Geoffrey R., 3,482,578.
L & T Machine Products, Inc.: *See—*
Lewis, Robert E., 3,462,181.
LTV Aerospace Corporation: *See—*
Bickley, Thomas F., 3,439,562.
Broyles, William A., Jr., 3,439,263.
Fewel, Kenneth J., 3,453,938.
Lansing, William A., 3,470,749.
Morrow, James A., 3,444,511.
Patterson, William J., 3,459,108.
Rieli, Anthony, 3,435,798.
Rieli, Anthony; and McNaughton, Gordon Richard, 3,485,313.
Rosendale, John W., 3,429,566.
Welch, Albert B., 3,486,156.
LTV Electrosystems, Inc.: *See—*
Bayles, Fred R., 3,463,055.
Fletcher, Willard J., 3,484,894.
Flippo, Robert V., 3,485,255.
Owens, Bobby, 3,434,493.
Schulze, James W., Jr., 3,485,264.

LTV Ling Altec, Inc.: *See—*
Cohen, Abraham B., 3,432,002.
Ross, James A., 3,424,970.
Ross, James A.; and Bogart, Theodore F., Jr., 3,463,984.
Luba, Marion J. Automatic butter dispenser. 3,437,238, 4-8-69, Cl. 221-129.
Lubach, John Paul, to Enterprise Machine and Development Corporation. Apparatus for treating yarn. 3,449,805, 6-17-69, Cl. 28-1.
Lubatti, Eugenio; and Pappalardo, Salvatore, to Montecatini Edison S.p.A. Production of boron nitride. 3,420,629, 1-7-69, Cl. 23-191.
Lubatti, Eugenio; Pappalardo, Salvatore; and Mirarchi, Ugo, to Montecatini Edison S.p.A. Process for preparing manufactured articles of silicon nitride, also in admixture with silicon carbide. 3,468,992, 9-23-69, Cl. 264-63.
Lube Devices, Inc.: *See—*
Lukas, Gus J.; and Bydalek, Floyd J., 3,455,163.
Lukas, Gus J.; and Bydalek, Floyd J., 3,479,874.
Luber, Fredrick G.: *See—*
Peters, Robert W.; and Luber, Fredrick G.,3,432,707.
Luberoff, Benjamin J.; and Gold, Daniel H., to Lummus Company, The. Preparation of nonvicinal toluene diisocyanates. 3,441,587, 4-29-69, Cl. 260-453.
Luberoff, Benjamin; and Gold, Daniel H., to Lummus Company, The. Preparation of non-vicinal toluene diisocyanates. 3,441,586, 4-29-69, Cl. 260-453.
Lubet-Moncla, Xavier Lucien, to Girardiere, Gustave. Adhesive strips for dressings or therapeutic treatments. 3,431,907, 3-11-69, Cl. 128-156.
Lubit, Erwin C. Method and device for massaging the soft palate. 3,447,534, 6-3-69, Cl. 128-64.
Lubkin, Samuel; and Sherry, Robert Seymour, to Digiac Corporation. Data handling system and method. 3,456,242, 7-15-69, Cl. 340-172.5
Luboshez, Sergiua N. Ferris. Pleated shade for controlling heat and light. 3,443,860, 5-13-69, Cl. 350-263.
Lubowitz, Hyman R., to TRW Inc. Polydiene resins including cyclized polydiene resins, method of manufacture and uses. 3,431,235, 3-4-69, Cl. 260-47.
Lubowitz, Hyman R.; Ogren, John R.; and Kendrick, William P., to TRW, Inc. High temperature lubricants. 3,423,317, 1-21-69, Cl. 252-37.2
Lubrizol Corporation, The: *See—*
Bretz, John, 3,451,865.
Coleman, Lester E., 3,425,942.
Coleman, Lester E., 3,455,889.
Coleman, Lester E., 3,458,478.
Coulman, William J. T., 3,477,882.
Dorer, Casper J., Jr., 3,440,247.
Dorer, Casper J., Jr., 3,453,212.
Forsberg, John W.; and Jahnke, Richard W., 3,429,945.
Forsberg, John W., 3,454,418.
Hoke, Donald I., 3,429,674.
Jennings, Thomas C., 3,470,222.
Laudise, Michael A., 3,454,669.
Le Suer, William M., 3,433,744.
Le Suer, William M.; and Higgins, William A., 3,442,804.
Le Suer, William M., 3,443,917.
Le Suer, William M.; and Norman, George R., 3,448,048.
Le Suer, William M.; and Norman, George R., 3,454,607.
Le Suer, William M., 3,484,429.
Lesuer, William M., 3,428,561.
Lesuer, William M., 3,437,465.
LeSuer, William M.; and Norman, George R., 3,471,403.
Miller, Clark O.; and Dorer, Casper J., Jr., 3,427,141.
Murfin, Donald L.; and Miller, Leonard E., 3,478,091.
Nagel, Roger M., 3,461,189.
Norman, George R.; and Le Suer, William M., 3,444,170.
Scher, Robert W., 3,422,013.
Upham, Wesley B., 3,458,364.
Wiese, Herbert F., 3,446,735.
Wurstner, Robert G., 3,453,124.
Luc, Jane. Process for forming decorative patterns. 3,434,861, 3-25-69, Cl. 117-10.
Luc, Jane. Decorative process. 3,434,862, 3-25-69, Cl. 117-10.
Luca, Vasile; Runceanu, Gheorghe; Cosmescu, Ctin; and Ionescu, Alexandru, to Ministerul Industriei Constructiilor. Pneumatic core for concrete ducts or pipes of noncircular section. 3,428,288, 2-18-69, Cl. 249-65.
Lucas, Alan Hubert: *See—*
Bunyard, Alan Donald; Norris, Kenneth William; and Lucas, Alan Hubert,3,473,668.
Lucas, Bennie M., to Polymer Corporation, The. Continuous anionic polymerization of lactams. 3,451,976, 6-24-69, Cl. 260-78.
Lucas, Delbert E.; and Adkins, William L., to TRW Inc. Collapsible steering column. 3,457,799, 7-29-69, Cl. 74-492.
Lucas, Don D. Combined toilet fixture and basin. 3,428,964, 2-25-69, Cl. 4-3.
Lucas, Harry G., to United States of America, Interior. Particle feeder with walls of progressively increasing resistance. 3,485,420, 12-23-69, Cl. 222-564.
Lucas, Horace. Garbage disposal conveyor. 3,472,384, 10-14-69, Cl. 210-526.
Lucas, Horst, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Apparatus for turning a box on a conveyor. 3,432,023, 3-11-69, Cl. 198-33.
Lucas, James W.: *See—*
Barr, Courtland H., Sr.; Barr, Courtland H., Jr.; Barr, John W.; and Lucas, James W.,3,434,468.
Lucas, James Wortz. Overhead projector. 3,459,475, 8-5-69, Cl. 353-37.
Lucas, James W. Teaching machine. 3,443,866, 5-13-69, Cl. 352-101.
Lucas, James W. Large aperture achromat objective. 3,447,860, 6-3-69, Cl. 350-211.
Lucas, Joachim Kurt: *See—*
Lucas, Lothar Johannes, 3,421,263.
Lucas, Joseph , (Industries) Limited: *See—*
Cryer, Edward, 3,482,194.
Lucas, Joseph, (Industries) Limited: *See—*
Baker, Alfred Dickens, 3,422,339.
Baker, Alfred Dickens; and Howes, Maurice Albert Henry, 3,450,913.
Baker, Alfred Dickens, 3,485,470.
Baldwin, John Granville; and Holt, William David, 3,476,902.
Barker, Keith Lambert, 3,485,044.
Barnes, Stanley Charles; and Puzey, John Edwin, 3,484,928.
Bloom, Joseph Lewis, 3,451,286.
Bottoms, Harry Simister, 3,431,862.
Bottoms, Harry Simister; and Lewis, Geoffrey Arthur, 3,447,470.
Bottoms, Harry Simister, 3,447,778.
Bottoms, Harry Simister, 3,460,483.
Bowcott, Roy Price, 3,459,983.
Bowcott, Roy Price, 3,460,655.
Bryant, Walter Kenneth; and Hicks, Harris Vernon, 3,486,019.
Butterfield, Geoffrey John, 3,484,783.
Cheary, Walter Graham, 3,465,404.
Clark, Peter Joseph, 3,458,997.
Cooksey, William Harold, 3,461,253.
Crowther, Harold, 3,476,055.
Cryer, Edward, 3,457,380.
Curran, John Patrick Stewart, 3,426,801.
Davies, Anthony Roger; and O'Donoghue, John Peter, 3,466,103.
Downing, Eric William; and Goddard, Brian Walter, 3,460,521.
England, Alan Gordon, 3,450,055.
Freeman, Frank George, 3,446,472.
Freeman, Frank George, 3,457,939.
Freeman, Frank George, 3,485,270.
Fry, William Lawrence, 3,461,418.
Gilbert Brian, 3,459,164.
Gilbert, Brian, 3,461,345.
Goddard, Brian Walter; and Wileman, David Gerald, 3,452,729.
Greenwood, Kenneth, 3,460,345.
Hartop, Stephen Ben, 3,438,552.
Hartop, Stephen Ben, 3,441,447.
Henderson, Brian Sydney, 3,461,412.
Hulse, Michael Anthony, 3,483,042.
Jackson, Squire Ronald; Saunders, Ronald Douglas Haig; and Ormerod, Alan, 3,481,146.
Jenkinson, Jeremy Mark; and Rayner, Christopher Stephen, 3,468,555.
Jenkinson, Robert Arthur, 3,469,136.
Johnson, James, 3,469,046.
Jones, Kenneth James; and Hicks, Harris Vernon, 3,486,066.
Jukes, Norman Alfred, 3,444,339.
Jukes, Norman Alfred, 3,457,905.
Jukes, Norman Alfred, 3,478,249.
Keel, David John Vincent; and Kightley, Raymond John, 3,449,167.
Knowles, John Anthony, 3,477,048.
Lawrence, Owen Napier, 3,427,804.
Lawrence, Owen Napier, 3,430,513.
Lawrence, Owen Napier, 3,465,643.
Little, Philip Vernon, 3,486,141.
Little, Philip Vernon, 3,486,142.
Long, Geoffrey Albert, 3,447,315.
Long, Nigel Neville William; and Hickton, Raymond, 3,424,264.
Matthews, Benjamin William, 3,436,715.
Matthews, Benjamin William, 3,444,502.
Matthews, Benjamin William, 3,486,159.
Maybury, Gordon Howard; and Moore, Frank Woodward, 3,441,765.
Mowbray, Dorian Farrar, 3,441,247.
Mowbray, Dorian Farrar, 3,465,770.
Nicholls, Bertram Frank; and Detheridge, John Stanley, 3,487,249.

Nolan, Roger William, 3,430,124.
Nolan, Roger William; and Gilbert, Brian, 3,443,192.
Nolan, Roger William, 3,453,527.
Palmer, Kenneth Percival; and Taylor, Michael Charles, 3,478,766.
Parkes, Eric Bernard, 3,468,554.
Place, Harold; and Roberts, Maurice Swift, 3,447,757.
Potts, Matthew, 3,457,872.
Preece, Kenneth, 3,478,421.
Prickett, Alfred Donald, 3,441,890.
Prickett, Alfred Donald, 3,469,232.
Rayner, Christopher Stephen; and Thomas, David, 3,465,476.
Rushton, Derek, 3,423,721.
Rushton, Nigel John, 3,476,097.
Sayer, Lawrence Norman; and Brown, Eric Clive, 3,436,515.
Sharples, Richard Colin, 3,466,413.
Sharples, Richard Colin, 3,476,900.
Shaw, Louis, 3,423,619.
Skinner, Robert Thomas John, 3,452,679.
Skinner, Robert Thomas John, 3,459,130.
Skinner, Robert Thomas John, 3,468,333.
Skinner, Robert Thomas John, 3,476,051.
Smith, Dexter William, 3,451,810.
Smith, Dexter William, 3,460,994.
Sparks, Brian Edmund, 3,444,874.
Stacey, Michael Albert; and Millington, David Everitt, 3,468,017.
Stott, Donald, 3,429,625.
Tolley, Leslie, 3,437,966.
Warne, Eugene Harold, 3,439,625.
Warne, Eugene Harold; and Long, Geoffrey Albert, 3,444,688.
Warne, Eugene Harold, 3,475,908.
Warne, Eugene Harold, 3,475,909.
Warne, Eugene Harold, 3,475,910.
Watson Michael Ernest Hall, 3,440,039.
Werda, Konrad, 3,476,901.
Wright, Maurice James, 3,443,193.
Wright, Maurice James, 3,454,861.
Wright, Maurice James, 3,469,167.
Wright, Maurice James; and Nolan, Roger William, 3,479,575.

Lucas, Joseph, (Industries)Limited: *See*—
Preece, Kenneth, 3,449,606.
Wright, Maurice James, 3,449,598.

Lucas, Joseph,(Industries) Limited: *See*—
Cooksey, William Harold, 3,479,472.

Lucas, Joseph(Industries)Limited: *See*—
Dougall, John, 3,456,254.

Lucas, Kenneth A.; and Oliver, Robert B., to Aerojet-General Corporation. Method of determining average orientation of wires in material. 3,437,923, 4-8-69, Cl. 324-58.5

Lucas, Lothar Johannes, to Lucas, Joachim Kurt. Sanding device for lacquered surfaces. 3,421,263, 1-14-69, Cl. 51-57.

Lucas, Malcolm B., to Procter & Gamble Company, The. Method of forming tear tapes on plastic packaging material. 3,458,377, 7-29-69, Cl. 156-244.

Lucas, Michael J.: *See*—
Rikert, John A.; Carlin, Owen B.; and Lucas, Michael J.,3,461,822.

Lucas, Ned L.: *See*—
Dunn, Wendell E.; Lucas, Ned L.; and Price, Frank B.,3,455,176.

Lucas, Paul G.; and Talambiras, Robert P., to Adage, Inc. Variable gain amplifying apparatus for hybrid computer. 3,470,487, 9-30-69, Cl. 330-86.

Lucas, Pierre M.; Duquesne, Jean F.; LeGall, Pierre; and Rouzier, Michel M. Automatic switching system comprising direct and mutual-aid routes between selection units. 3,454,723, 7-8-69, Cl. 179-18.

Lucas, Raymond D.: *See*—
Howard, James A.; and Lucas, Raymond D.,3,427,523.

Lucas, Raymond D.: *See*—
Howard, James A.; and Lucas, Raymond D.,3,427,523.

Lucas, Rene F., to Burroughs Corporation. Ten key multiplying machine. 3,451,618, 6-24-69, Cl. 235-60.

Lucas, Robert Armistead: *See*—
Mizzoni, Renat Herbert; Lucas, Robert Armistead; and de Stevens, George,3,455,923.

Lucas, Robert G., to Beloit Eastern Corporation. Web separator. 3,463,377, 8-26-69, Cl. 226-197.

Lucas, Robert H.: *See*—
Aberle, Richard H.; and Lucas, Robert H.,3,438,228.

Lucas, Roy N.: *See*—
Winslow, Joseph D., Jr.; and Lucas, Roy N.,3,446,724.

Lucas, Victor Grifols, to American Hospital Supply Corporation, mesne. Apparatus for performing plasmapheresis in situ. 3,460,752, 8-12-69, Cl. 233-26.

Lucca, Salvatore: *See*—
Merker, Reuven; and Lucca, Salvatore,3,453,123.

Lucchino, Joseph A.; and Bierbower, John B., to Lockheed Aircraft Corporation. Clamp assembly. 3,480,248, 11-25-69, Cl. 248-361.

Lucci, Joseph A. Table ball game. 3,466,042, 9-9-69, Cl. 273-85.

Luce, Betty M.; and Berdan, Betty L., to Clevite Corporation. Metal composite and method of making same. 3,454,376, 7-8-69, Cl. 29-194.

Luce, Gene W. Apparatus and method for continuous crystallization by evaporation. 3,424,221, 1-28-69, Cl. 159-26.

Luce, Gerard: *See*—
Feutrel, Claude; Loubet, Michel; and Luce, Gerard,3,466,975.

Luce, John Whitney, Sr., to Owens-Illinois, Inc. Recutting of cylindrical tubes into a plurality of tubes. 3,481,234, 12-2-69, Cl. 82-85.

Luce, Laurence E., Jr., to De Laval Turbine, Inc. Separation apparatus and method for mixed impurities on the exposed surface of a liquid body. 3,447,683, 6-3-69, Cl. 210-83.

Luce, Robert L., to Philco-Ford Corporation. Fabrication of semiconductive devices. 3,469,308, 9-30-69, Cl. 29-589.

Lucerne Products, Inc.: *See*—
Matthews, Benjamin H., 3,456,229.
Matthews, Benjamin H.; and Rhine, Jules W., 3,456,230.
Matthews, Benjamin H., 3,467,801.

Lucero, Daniel Patrick, to Beckman Instruments, Inc. Electrochemical cell with hydrogen permeable barrier. 3,468,781, 9-23-69, Cl. 204-195.

Lucero, Ulrico. Sofa convertible into a bed having upright moving hinge means for the back rest. 3,483,573, 12-16-69, Cl. 5-19.

Lucey, George K., Jr.: *See*—
Williams, David; and Lucey, George K., Jr.,3,458,673.

Luchetta, Julius F., to Jefferson Electric Company. Moisture proof ballast construction for plastic signs and the like. 3,484,535, 12-16-69, Cl. 174-52.

Lucian, Anton: *See*—
Koenig, Peter; and Lucian, Anton,3,425,668.

Luciani, Joseph D.: *See*—
Lozier, William B., Jr.; and Luciani, Joseph D.,3,482,210.

Luciani, Luciano; and Corsi, Gianfranco, to Montecatini Edison S.p.A. Preparation of delta form crystalline titanium trichloride. 3,451,768, 6-24-69, Cl. 23-87.

Luciani, Luciano; and Corsi, Gianfranco, to Montecatini Edison S.p.A.Crystalline $TiCl_3$ and method of preparing same. 3,461,083, 8-12-69, Cl. 252-429.

Luciano, John P., Jr.: *See*—
Hsu, Yung Shing; and Luciano, John P., Jr.,3,459,095.

Lucibello, Louis V. Crutch tip. 3,467,117, 9-16-69, Cl. 135-54.

Lucie, Albert, to Wickman Lang Limited. Screw-cutting lathes and other screw-cutting machines. 3,431,800, 3-11-69, Cl. 82-5.

Lucie, Albert, to Wickman Lang Limited. Screw cutting lathes and other screw cutting machines. 3,436,993, 4-8-69, Cl. 82-5.

Lucien Ferraz & Cie: *See*—
Cinquin, Jean Pierre, 3,453,579.

Lucien, Rene, to Societe Anonyme, Messier. Under-carriage with three wheels arranged on the same shaft. 3,432,124, 3-11-69, Cl. 244-103.

Lucien, Rene, to Societe Anonyme dite: Messier. Alternating-current torque motors. 3,474,313, 10-21-69, Cl. 318-123.

Lucien, Rene; and Pascal, Yves. Single action hydraulic assistance devices. 3,425,321, 2-4-69, Cl. 91-49.

Lucietto, Lambert A.; and Lucietto, Ledo B. Article supporting bracket for attachment to channels. 3,429,539, 2-25-69, Cl. 248-228.

Lucietto, Lambert A.; and Lucietto, Ledo B. Bracket for mounting on apertured panel. 3,452,954, 7-1-69, Cl. 248-220.5

Lucietto, Ledo B.: *See*—
Lucietto, Lambert A.; and Lucietto, Ledo B.,3,429,539.
Lucietto, Lambert A.; and Lucietto, Ledo B.,3,452,954.

Lucifer S.A.: *See*—
Stampfli, Harald, 3,458,769.

Lucius, Gunter: *See*—
Rudolph, Otfried; and Lucius, Gunter,3,455,547.

Luciw, Wolodymyr, to Sperry Rand Corporation. Magnetic memory with an off-set bit line to reduce capacitance coupling. 3,466,623, 9-9-69, Cl. 340-174.

Luck, Erich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Preservation of cheese. 3,486,909, 12-30-69, Cl. 99-162.

Luck, James R.; and Mills, Frank S., to Honeywell Inc. Water softener control. 3,477,576, 11-11-69, Cl. 210-96.

Luck, Russell M.: *See*—
Gainer, Gordon C.; and Luck, Russell M.,3,458,747.

Luck, Wolfhard: *See*—
Schmid, Helmut; Luck, Wolfhard; Loderhose, Ernst; Zinz, Bruno; and Komarek, Ernst,3,482,925.

Lucke, Ernst, to Croon & Lucke Maschinenfabrik GmbH. Reeling machine. 3,456,890, 7-22-69, Cl. 242-53.

Lucke, Josef: *See*—
Lodige, Wilhelm; Lodige, Fritz; and Lucke, Josef,3,445,090.
Lodige, Wilhelm; Lodige, Fritz; and Lucke, Josef,3,466,015.

Luckenbach, Edward C., to Esso Research and Engineering Company. Transfer line apparatus and method. 3,475,326, 10-28-69, Cl. 208-153.

Luckenbach, Edward C., to Esso Research and Engineering Company. Reaction vessel. 3,480,406, 11-25-69, Cl. 23-288.

Luckenbach, Roy L., to Burlington Industries, Inc. Process and apparatus for finishing of hose. 3,431,656, 3-11-69, Cl. 34-12.
Luckenbill, Lawrence F.; and Daghe, Joseph L., to Mueller Co. Fire hydrant stem coupling. 3,439,947, 4-22-69, Cl. 287-108.
Luckey, George W.; and Miller, Francis A., Jr., to Du Pont de Nemours, E. I., and Company. Rotating turret electrode holder. 3,482,092, 12-2-69, Cl. 250-49.5
Luckey, Manley J. Breath alcohol determination. 3,437,449, 4-8-69, Cl. 23-254.
Luckham, Denis C.; and Green, Gordon F., to Luckham Limited. Portable centrifuge. 3,434,657, 3-25-69, Cl. 233-26.
Luckham Limited: *See*—
Luckham, Denis C.; and Green, Gordon F., 3,434,657.
Lucking, James Robert, to English Electric Computers Limited. Electric data handling apparatus. 3,422,401, 1-14-69, Cl. 340-172.5
Lucy, Carl F., to Singer-General Precision, Inc. Ordnance projectile. 3,427,976, 2-18-69, Cl. 102-91.
Ludder, Rodney E., to Owens-Illinois, Inc. Round nestable paper container having a high gloss exterior finish and an interior and bottom wax coated surface. 3,450,327, 6-17-69, Cl. 229-3.1
Ludder, Rodney E.; and Huston, Henry H. Package for dispensing comestibles. 3,442,435, 5-6-69, Cl. 229-15.
Ludecke, Heinz-Jurgen; and Moldenhauer, Kurt, to Hartmann & Braun Aktiengesellschaft. Exhaust gas sampler. 3,481,200, 12-2-69, Cl. 73-421.5
Ludeman, Edwin H., to Andrew Industries Incorporated. Separable coupling. 3,432,191, 3-11-69, Cl. 285-312.
Ludeman, Edwin H., to Andrews Industries Incorporated. Dust-cap. 3,476,154, 11-4-69, Cl. 138-89.
Luders, Walter: *See*—
Steppan, Hartmut; Erdmann, Fritz; Messwarb, Gunter; and Luders, Walter,3,484,239.
Ludewig, Frederick A., Jr.; and Myracle, James L., to General Electric Company. System for extended resolution of a binary coded pattern device. 3,487,400, 12-30-69, Cl. 340-347.
Ludewig, Max; Zorner, Walter; and Tonn, Elmar, to Halberg Maschinenbau G.m.b.H. & Co. Seal for a rotatable shaft having a segmented sealing ring. 3,439,924, 4-22-69, Cl. 277-137.
Ludford, Peter, to Humber Limited. Ventilating valves for vehicles. 3,432,142, 3-11-69, Cl. 251-212.
Ludge & Shipley Co., The: *See*—
Sporck, Claus L.; Kelley, Thomas H.; and Lombardo, Samuel J., 3,453,854.
Ludin, Rolf: *See*—
Waldburger, Heinz; and Ludin, Rolf,3,449,904.
Luding, Edgar: *See*—
Nahm, Helmut; Siedel, Walter; and Luding, Edgar,3,449,325.
Luding, Gustave. Means for securing prefabricated reinforced concrete bunker sections. 3,477,396, 11-11-69, Cl. 109-1.
Ludloff, Wolfgang, to Gesellschaft fur Multiblitzgerate Dr.-Ing. D. A. Mannesmann mbH. Flash discharge tube for exposing emulsions sensitive to artificial light. 3,465,191, 9-2-69, Cl. 313-109.
Ludloff, Wolfgang, 1/2 to Gesellschaft fur Multiblitzgerate Dr.-Ing. D.A. Mannesmann mbH. Photoflash system with a setting condenser and a main condenser in parallel across the discharge lamp. 3,475,647, 10-28-69, Cl. 315-183.
Ludloff, Wolfgang: *See*—
Lassig, Wolfgang; and Ludloff, Wolfgang,3,441,347.
Ludlow Corporation: *See*—
Mason, Austin B.; and Wilkie, Robert C., 3,455,772.
Ludlow, Thomas B. Specific gravity tester device. 3,451,273, 6-24-69, Cl. 73-440.
Ludlow Typograph Company: *See*—
Duncan, Paul J.; and Hayes, Richard C., 3,436,950.
Ludlum, Donald G., to Ludlum Measurements, Inc. High gain low voltage amplifier. 3,487,322, 12-30-69, Cl. 330-22.
Ludlum Measurements, Inc.: *See*—
Ludlum, Donald G., 3,487,322.
Ludlum Steel Corporation: *See*—
Peterson, Ralph W., 3,473,417.
Ludolphy, Erich; and Berthmann, Adolf, to Dynamit Nobel Aktiengesellschaft. Blasting composition containing a salt, liquid nitric ester, and wetting agent. 3,438,823, 4-15-69, Cl. 149-53.
Ludolphy, Erich; Martin, Gerhard; and Berthmann, Adolf, to Dynamit Nobel Aktiengesellschaft. Water-containing, nitric ester-free ammonium nitrate explosives. 3,459,608, 8-5-69, Cl. 149-56.
Ludovici, Bruno F.; and Megla, Gerhard K., to Corning Glass Works. Projection system having secondary image carrier. 3,431,048, 3-4-69, Cl. 353-22.
Ludovici, Bruno F.: *See*—
Megla, Gerhard K.; and Ludovici, Bruno F.,3,428,396.
Ludt, William C.; and Kellogg, Hudson W., to Ethyl Corporation. Automatic antiknock rating and adjustment apparatus. 3,456,492, 7-22-69, Cl. 73-35.
Ludt, William C.: *See*—
Jones, John T.; Ludt, William C.; and Kellogg, Hudson W.,3,485,598.
Ludvig, Ernest; and Tull, Vernon M., to Purolator Products, Inc. Device for the analysis of the filter characteristics of porous media. 3,455,455, 7-15-69, Cl. 210-93.
Ludwi, Bernard J.; Diamond, Julius; and Skinner, Wilfred A., Jr., to Carter-Wallace, Inc. Propane dithiols. 3,420,890, 1-7-69, Cl. 260-609.
Ludwick, William R.: *See*—
Duvall, William C.; Ludwick, William R.; and Brion, Albert E., Jr.,3,432,609.
Ludwig, A., & Co., Inc.: *See*—
Betso, Stephen, 3,431,591.
Ludwig, Albert R., to Zagar, Inc. Sign sensing switch for numerical control system. 3,428,765, 2-18-69, Cl. 200-61.39
Ludwig, Allen C., to Research Corporation, mesne. Fire-retardant sulphur compositions. 3,440,064, 4-22-69, Cl. 106-15.
Ludwig, Bernard J.: *See*—
Berger, Frank M.; Rosselet, Jean P.; and Ludwig, Bernard J.,3,483,290.
Ludwig, Carl, to McDowell-Wellman Engineering Company. Bulk material handling apparatus with rotary digging device. 3,432,024, 3-11-69, Cl. 198-36.
Ludwig, Carl, to McDowell-Wellman Engineering Company. Swell control for bucket ladder. 3,432,043, 3-11-69, Cl. 214-14.
Ludwig, David R.; and Brodeur, Lester R., to Kreske, Walter J., mesne. Voltage variable capacitive network. 3,443,205, 5-6-69, Cl. 323-74.
Ludwig, Frederic G., 1/3 to Nolte, Albert C., Jr. Photographic film with deformed end surface and detachable lead strip. 3,471,292, 10-7-69, Cl. 96-78.
Ludwig, Gerhard: *See*—
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeille, Karl,3,459,782.
Koppe, Herbert; Ludwig, Gerhard; and Zeile, Karl,3,478,050.
Thoma, Otto; Koppe, Herbert; Mentrup, Anton; Zeile, Karl; and Ludwig, Gerhard,3,475,455.
Ludwig, Herbert, deceased0 (by Koch, Friedrich0Loewe, Hans; joint executors), to Desma-Werke Gesellschaft mit beschrankter Haftung. Method of producing footwear. 3,446,887, 5-27-69, Cl. 264-244.
Ludwig, Herbert P. Apparatus for the manufacture of shoes. 3,444,590, 5-20-9, Cl. 18-30.
Ludwig, Herbert. Apparatus for making footwear with bottoms applied by injection molding. 3,425,094, 2-4-69, Cl. 18-30.
Ludwig, Herbert. Shoe with injection molded bottom provided with dense edge strip, and method and apparatus for making the same. 3,480,704, 11-25-69, Cl. 264-45.
Ludwig, Jurgen: *See*—
Luther, Gunter; Ludwig, Jurgen; and Schulze, Martin,3,445,537.
Ludwig, Lawrence P., to United States of America, National Aeronautics and Space Administration. Foil seal. 3,421,768, 1-14-69, Cl. 277-25.
Ludwig, Lawrence P., to United States of America, National Aeronautics and Space Administration. Foil seal. 3,466,052, 9-9-69, Cl. 277-25.
Ludwig, Robert L.; and Rusling, George Roy, to Gulf Oil Corporation. Spring winding machine. 3,423,980, 1-28-69, Cl. 72-142.
Ludwig, Urban W., to General Precision Systems, Inc. Optical insetting. 3,439,982, 4-22-69, Cl. 353-34.
Ludwig, Urban W., to Singer-General Precision, Inc. Optical projection system. 3,458,252, 7-29-69, Cl. 353-69.
Ludwig, Walter D., to Mac Valves, Inc. Balanced rotary solenoid valve. 3,456,689, 7-22-69, Cl. 137-625.65
Ludwig, Walter D., to MAC Valves, Inc. Cam operator. 3,469,461, 9-30-69, Cl. 74-107.
Ludwig, Walter D., to MAC Valves, Inc. Solenoid operated valve. 3,469,600, 9-30-69, Cl. 137-596.17
Ludwig, Walter D., to MAC Valves, Inc. Rotary valve. 3,469,604, 9-30-69, Cl. 137-625.43
Ludwig, Walter, to Pentapco, Inc. Method for bonding a plastic foam pad onto, and without warping, a heat-warpable thermoplastic body member. 3,473,991, 10-21-69, Cl. 156-306.
Ludwig, Warren B.; Elerath, Byron E.; and Ewald, John F., Jr., to General Foods Corporation. Tubular freeze-drying condenser. 3,443,324, 5-13-69, Cl. 34-92.
Ludwig, Wilbur G.; and Zimmer, Richard C., to Bartelt Engineering Company, Inc. Machine for packaging articles in a controlled atmosphere. 3,430,414, 3-4-69, Cl. 53-79.
Ludwig, Wilbur G.; and Zimmer, Richard C., to Riegel Paper Corporation. Heat sealing mechanism. 3,475,257, 10-28-69, Cl. 156-498.
Luebbert, William K.; Geen, Joseph H.; and Roberts, Larry P., to American Drill Bushing Company. Pin and bushing assembly. 3,471,186, 10-7-69, Cl. 287-126.
Luebering, James E.: *See*—
Bedenk, William T.; and Luebering, James E.,3,486,908.
Luebke, Donald V., to Du Pont de Nemours, E. I., and Company. Preparation of zirconia and hafnia sols. 3,442,817, 5-6-69, Cl. 252-313.
Luebke, Horst: *See*—
Bindernagel, Ali; Luebke, Horst; and Kost, Erwin,3,473,574.
Luebke, Robert W. Fencing for controlling accumulation and drifting of snow, sand or other heavier-than-air particles suspended in air currents. 3,473,786, 10-21-69, Cl. 256-12.5

Luebke, William R., to Varian Associates. Vlocity modulation tube with R.F. lossy leads to the beam focusing lenses. 3,483,419, 12-9-69, Cl. 315-5.34

Luebs, Donald F.: *See—*
Ashby, Frederick R.; and Luebs, Donald F.,3,469,866.

Luebs, Donald F.; to U.S. Plywood-Champion Papers, Inc. Snap-on plastic cover. 3,478,478, 11-18-69, Cl. 52-309.

Lueck, Arthur M. Vehicle arm rest. 3,428,357, 2-18-69, Cl. 296-1.

Lueck, Irving B., to Bausch & Lomb, Incorporated. Neutralizer lens for lens testing instrument. 3,445,169, 5-20-69, Cl. 356-124.

Lueck, Irving B.; and Sheld, Clarence A., to Bausch & Lomb, Incorporated. Lamination of silicate surfaces using an impregnated phenoxy resin interlayer. 3,471,358, 10-7-69, Cl. 161-192.

Lueck, Laurence B.; and Morley, Ronald I., to Dymo Industries, Inc. Duplicating method involving color formation. 3,435,759, 4-1-69, Cl. 101-129.

Luecke, Gerald: *See—*
Hyltin, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D.,3,436,604.

Lueddeke, Louis: *See—*
Lueddeke, Raymond Paul; and Lueddeke, Louis,3,431,598.

Lueddeke, Raymond Paul; and Lueddeke, Louis, to Eastern Target Company, Inc. Machine organization for manufacturing target discs. 3,431,598, 3-11-69, Cl. 18-5.

Luedeman, Robert T., to Weston Instruments, Inc. Thermally-controlled resistors. 3,441,892, 4-29-69, Cl. 338-23.

Luedemann, George M.: *See—*
Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A.,3,454,696.
Weinstein, Marvin J.; Luedemann, George M.; and Wagman, Gerald H.,3,458,626.

Luedi, Hans R.; and Stettler, Christian H., to Grotnes Machine Works, Inc. Methods and apparatus for shrink forming metal articles. 3,461,710, 8-19-69, Cl. 72-372.

Luedicke, Edward: *See—*
Cope, Appleton D.; Luedicke, Edward; and Ziemelis, Ojars J.,3,471,741.

Luedtke, Lloyd Adlay. Bale thrower. 3,441,122, 4-29-69, Cl. 198-128.

Luedtke, William David. Disposable coffee drip brewer. 3,446,624, 5-27-69, Cl. 99-71.

Luehrmann, William H.; and Parker, William H., to Teledyne Exploration Company, mesne. Automatic sequencing of data from remote units. 3,461,445, 8-12-69, Cl. 340-147.

Luenberger, Frederick O., to Emerson Electric Co. Key drive for sliding hubs. 3,436,106, 4-1-69, Cl. 287-52.05

Luenberger, Frederick O.; and Tucker, Charles J., to Emerson Electric Co. Demountable vertical pump motor with reducer gear, heat exchanger, and lubrication system. 3,441,762, 4-29-69, Cl. 310-157.

Luescher, Rene, to Ciba Limited. Device for applying marks to photographic paper. 3,438,354, 4-15-69, Cl. 118-76.

Luescher, Rolf: *See—*
Seitzer, Dieter; and Luescher, Rolf,3,452,291.

Luethi, Christian, to Ciba Limited. Hydroxyarly-pyrimidines, process for their preparation and their use. 3,442,898, 5-6-69, Cl. 260-251.

Luethi, Christian; and Eschle, Karl, to Ciba Limited. Hydroxyphenyl-1,3,5-triazines containing sulfonic acid groups and their preparation. 3,444,164, 5-13-69, Cl. 260-248.

Luetze, Wilhelm O., to International Business Machines Corporation. Multivibrator. 3,483,484, 12-9-69, Cl. 331-113.

Luetzow, Edwin J., to Switches, Incorporated. Method of joining metallic objects of different melting points. 3,443,053, 5-6-69, Cl. 219-57.

Luft, Genakh Maxovich: *See—*
Svilpe, Karl Yanovich; Luft, Genakh Maxovich; Betiyan, Andris Alfredovich; Milyaev, Viktor Vasilievich; Gurevich, Leib Borukhovich; and Selcznev, Ivan Vasilievich,3,432,790.

Luft, Karl-Friedrich, to Bergwerksverband GmbH. Oxygen determination. 3,479,860, 11-25-69, Cl. 73-27.

Luft, Karl Friedrich, to Bergwerksverband GmbH. Oxygen determination. 3,486,364, 12-30-69, Cl. 73-27.

Luft, Karl, to Office National d'Etudes et de Recherches Aerospatiales. Infra-red gas analyzer for measuring the concen- tration of a particular gas. 3,476,934, 11-4-69, Cl. 250-43.5

Luftglass, Murray A., to Shell Oil Company. Bulk polymerization of vinyl aromatic compounds in presence of a minor amount of water. 3,439,065, 4-15-69, Cl. 260-880.

Luftglass, Murray A.; and Hendricks, Willis R., to Shell Oil Company. Block copolymer-polyethylene films. 3,459,831, 8-5-69, Cl. 260-876.

Lugash, Max J. Hand luggage. 3,448,839, 6-10-69, Cl. 190-49.

Luge, Karlheinz E.; and Braun, Wolfgang, to Metallgesellschaft Aktiengesellschaft. Method for cooling the combustion gases of refuse incinerators. 3,477,203, 11-11-69, Cl. 55-9.

Luginbuhl, David E.: *See—*
Bullard, Calvin P.; and Luginbuhl, David E.,3,431,600.

Luginbuhl, Pierre, to Schweizerische Industrie-Gesellschaft. Device for separating flat articles from a continuoulsy supplied line of articles. 3,451,563, 6-24-69, Cl. 214-8.5

Luginbuhl, Pierre; and Moser, Albert, to Schweizerische Industrie-Gesellschaft. Apparatus for automatically controlling the feed of a material strip to a processing machine. 3,451,188, 6-24-69, Cl. 53-73.

Lugli, Gabriele: *See—*
Marconi, Walter; Mazzei, Alessandro; and Lugli, Gabriele,3,468,867.
Mazzei, Alesandro; Lugli, Gabriele; and Marconi, Walter,3,463,766.

Lugo, Luigi: *See—*
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi,3,459,807.
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi,3,464,931.
Reni, Cesare; and Lugo, Luigi,3,431,199.

Lugo, Luigi; and Reni, Cesare, to Societa Italiana Resine S.p.A. Method of polymerizing gaseous formaldehyde. 3,458,479, 7-29-69, Cl. 260-67.

Lugoski, Arnold N.: *See—*
F'Geppert, Erwin; and Lugoski, Arnold N.,3,464,231.

Lugt, Thomas Vander; and Coe, Merrill J., to Brown Company. Recloseable carton with tear open spout. 3,438,565, 4-15-69, Cl.

Lugten, Leo K., to Electronic Communications, Inc. Electrical transformer construction incorporating impedance and frequency-response compensation. 3,423,709, 1-21-69, Cl. 336-83.

Lugten, Leo K., to Bourns, Inc. Magnetic core and coil arrangement. 3,478,291, 11-11-69, Cl. 336-216.

Lugten, Leo K., to Bourns, Inc. Inductive device. 3,483,499, 12-9-69, Cl. 336-180.

Lugue, Rafael Fernandez, to Shell Oil Company. Platform leg. 3,479,828, 11-25-69, Cl. 61-46.5

Luhdorff, Robert C., to FMC Corporation. Pitting mechanism. 3,424,215, 1-28-69, Cl. 146-28.

Luhe, Carl A. Insulated individual lunch case. 3,432,025, 3-11-69, Cl. 206-4.

Luhowy, Gabriel J., to United States of America, Army. Transceiver with tunable phase locked oscillator and tuning voltage generator. 3,487,311, 12-30-69, Cl. 325-17.

Luhowy, Gabriel J.; and Moehlmann, Richard H., to United States of America, Army, mesne. Non-linear function generator. 3,465,168, 9-2-69, Cl. 307-230.

Luhrs, Millen E.: *See—*
Bracken, Aubrey T.; Luhrs, Millen E.; and Green, Charles F.,3,459,413.

Luisada, August G.: *See—*
Frieder, Leonard P.; Green, Clarks; and Luisada, August G.,3,425,071.

Lujan, Frank J. Safety device for motorcycle operator. 3,486,767, 12-30-69, Cl. 280-289.

Lukas, Alfred: *See—*
Henke, Oskar; and Lukas, Alfred,3,453,497.

Lukas, Gus J.; and Bydalek, Floyd J., to Lube Devices, Inc. Liquid level gauge. 3,455,163, 7-15-69, Cl. 73-292.

Lukas, Gus J.; and Bydalek, Floyd J., to Lube Devices, Inc. Mounting fasteners for liquid level gauges. 3,479,874, 11-25-69, Cl. 73-292.

Lukas, Helmut H.: *See—*
Eisele, Werner Frank; and Lukas, Helmut H.,3,464,046.

Lukasheva, Evgenia Nikolaevna: *See—*
Gromov, Anatoly Pavlovich; Lukasheva, Evgenia Nikolaevna; Glazkov, Anatoly Vasilievich; Livshits, Abram Lazarevich; Pozhalkin, Vladimir Vasilievich; Polotsky, Vadim Evgenievich; and Scherbak, Mikhail Venediktovich,3,472,993.

Lukashok, Milton. Curtain system including elasticized top curtain panels and support for same. 3,433,281, 3-18-69, Cl. 160-330.

Lukashok, Milton. Curtain system including elasticized top curtain panels and support for same. 3,437,127, 4-8-69, Cl. 160-330.

Lukawich, Joseph J.; and Graft, Robert W., to Singer Company, The. Composite gears. 3,461,737, 8-19-69, Cl. 74-443.

Lukbe, Klaus; Schroder, Eberhard; and Zollner, Georg, to Schering A.G. Acylated hexapeptides related to eledoisin. 3,423,390, 1-21-69, Cl. 260-112.5

Luke, Henry F. Tamper-proof closure for dispenser cans. 3,460,707, 8-12-69, Cl. 220-27.

Luke, Louzelle Albert, to Sperry Rand Corporation. Search memory match logic detector. 3,432,686, 3-11-69, Cl. 307-231.

Luke, Robert R.; Robinson, Marshall M.; and Thomson, Kenneth, to Shell Oil Company. Electrostatic monitoring camera. 3,445,856, 5-20-69, Cl. 346-1.

Lukens, Alfred B. High precision record player. 3,481,609, 12-2-69, Cl. 274-39.

Lukens, George B., II, to General Electric Company. Binary subtracter for numerical control. 3,424,898, 1-28-69, Cl. 235-174.

Lukens Steel Company: *See—*
Fogleman, Edgar L.; and Sterne, Robert H., Jr., 3,424,576.
Freyberger, Donald L.; and Longenecker, John F., 3,469,301.
Hare, Maurice J., 3,463,137.

Jensen, Niels H.; and Smith, Hubert C., 3,433,286.
Jensen, Niels H.; and Smith, Hubert C., 3,465,809.
Jensen, Niels H.; and Cardwell, Gilbert P., 3,471,933.
Scott, John H., 3,453,863.

Luker, Ronald J.: *See*—
Simpson, Robert G.; Luker, Ronald J.; and Jewell, George S.,3,479,513.

Lukes, George E.: *See*—
Curtis, Ralston; and Lukes, George E.,3,482,960.
Brokke, Mervin E.; Lukes, George E.; and Arkneklev, Duane R.,3,420,655.
Brokke, Mervin E.; Lukes, George E.; and Arneklev, Duane R.,3,435,043.
Brokke, Mervin E.; Lukes, George E.; and Jarneklev, Duane R.,3,438,983.
Brokke, Mervin E.; Lukes, George E.; and Arneklev, Duane R.,3,449,374.
Brokke, Mervin E.; Lukes, George E.; and Arneklov, Duane R.,3,455,674.
Gutman, Arnold D.; Lukes, George E.; and Arneklev, Duane R.,3,467,714.

Luketa, Frank J., to Robbins, Felix & Robbins. Handling of a net and its catch aboard a trawler. 3,478,461, 11-18-69, Cl. 43-8.

Lukevics, Alfreds Karlis: *See*—
Zwart, Bernardus Mulder, Jr.; Lukevics, Alfreds Karlis; and Wylie, Harold Franklin,3,428,001.

Lukianov, Roman E., to Honeywell Inc. Folded web rod memory array. 3,444,535, 5-13-69, Cl. 340-174.

Lukin, Richard H., to Union Special Machine Company. Feed stroke adjusting mechanism for sewing machines. 3,450,079, 6-17-69, Cl. 112-209.

Luksas, Anthony J.: *See*—
Bundus, Robert H.; and Luksas, Anthony J.,3,466,174.
Bundus, Robert H.; and Luksas, Anthony J.,3,466,176.
Bundus, Robert H.; and Luksas, Anthony J.,3,466,177.
Bundus, Robert H.; and Luksas, Anthony J.,3,485,641.

Luksas, Anthony J.; and Bundus, Robert H., to Beatrice Foods Co. Onion rings. 3,449,132, 6-10-69, Cl. 99-100.
Noznick, Peter P.; Bundus, Robert H.; and Luksas, Anthony J.,3,446,627.

Luksch, James A.; Dolan, Lawrence C.; Brooks, Robert A.; and Zimmerman, Arie, to Anaconda Electronics Company, mesne. Multiple mode RF measurement apparatus using sweep and comparison techniques. 3,450,987, 6-17-69, Cl. 324-57.

Luksich, Thomas, to Lee-Norse Company. Mining machine having oscillating cutting arms. 3,460,868, 8-12-69, Cl. 299-71.

Lulay, Arthur: *See*—
Garrison, Dale Leroy; and Lulay, Arthur,3,469,285.

Lum, David W.; and Mador, Irving L., to National Distillers and Chemical Corporation. Catalyst regeneration. 3,480,558, 11-25-69, Cl. 252-416.

Lum, Robert C.: *See*—
Bourn, Jesse T.; Ridenhour, Banks L.; and Lum, Robert C.,3,480,257.

Lumb, Edwin T. Dial for electrical apparatus. 3,440,998, 4-29-69, Cl. 116-124.1

Lumb, William V., to Colorado State University Research Foundation. Prosthetic appliance for replacing one or more natural vertebrae. 3,426,364, 2-11-69, Cl. 3-1.

Lumen GmbH Nahrmittel- und Maschinenfabrik, Firma: *See*—
Menzel, Waldemar, 3,456,577.

Lumer Research Corporation: *See*—
Merker, Reuven; and Lucca, Salvatore, 3,453,123.

Lumex, Inc.: *See*—
Murcott, Charles E., 3,486,176.

Lumin Chemical Company: *See*—
Libby, Louis H.; and Libby, Minnie G., 3,424,771.

Luminous Ceilings, Inc.: *See*—
Segil, Arthur W.; and White, Richard N., 3,471,981.

Luminous, P. N., Equipment Co.: *See*—
Bobrick, Mitchell, 3,426,190.

Lummus Company, The: *See*—
Bogart, Marcel J. P., 3,437,567.
Buchsbaum, Norbert N., 3,421,983.
Chibaeff, Vadim G., 3,438,532.
Dorn, Rolf K., 3,449,212.
Endler, John J., 3,446,877.
Feldman, Samuel I.; and DeCuir, Talford S., 3,425,738.
Gessner, Adolph W., 3,426,079.
Guerrieri, Salvatore, 3,446,595.
Guerrieri, Salvatore A., 3,450,506.
Guerrieri, Salvatore A., 3,451,784.
Huibers, Derk Th. A., 3,478,082.
Huibers, Derk Th. A., 3,479,385.
Kniel, Ludwig, 3,456,032.
Kramer, Jan; and Hus, Martinus, 3,443,388.
Lloyd, William G., 3,441,617.
Lloyd, William Gilbert, 3,475,461.
Long, Raymond H.; and Maddock, Maldwyn J., 3,453,076.
Luberoff, Benjamin; and Gold, Daniel H., 3,441,586.
Luberoff, Benjamin J.; and Gold, Daniel H., 3,441,587.
Marshall, Louis, 3,421,610.
Mekler, Valentine; Sze, Morgan C.; Bloomer, Ward J.; and Bauer, William V., 3,420,656.
Newman, Julian, 3,437,714.
Newman, Julian; and Mencher, Simon, 3,475,510.
Newman, Julian; Caspers, John; Gambro, John; and Freiling, Jerome G., 3,487,006.
O'Connor, Ward F., 3,467,175.
O'Sullivan, Thomas F., 3,460,924.
Palchik, Edward H., 3,456,719.
Reilly, James W.; and Sze, Morgan C., 3,450,784.
Sages, Danyel, 3,458,298.
Sze, Morgan C.; and Stewart, Donald B., 3,479,298.
Thornton, James F.; and Sze, Morgan C., 3,456,622.
Thornton, James F., 3,475,121.
Tsao, Utah, 3,443,902.
Tucker, William, 3,477,495.

Lummus, James L., to Pan American Petroleum Corporation. Transpoation of viscous liquids. 3,434,485, 3-25-69, Cl. 137-13.

Lummus, James L., to Pan American Petroleum Corporation. Method of drilling with polymer-treated drilling fluid. 3,472,325, 10-14-69, Cl. 175-66.

Lummus, James L.; and Park, Arthur, to Pan American Petroleum Corporation. Stator-controlled hydraulic motor. 3,443,482, 5-13-69, Cl. 91-93.

Lummus, James L.; and Randall, Billy V., to Pan American Petroleum Corporation. Liquid systems having improved friction characteristics. 3,472,769, 10-14-69, Cl. 252-8.5

Lumn, John H., to Ametek, Inc., mesne. Lightning protection for aircraft components. 3,480,231, 11-25-69, Cl. 244-1.

Lumn, John H., to Ametek, Inc. Lightning protection for aircraft components. 3,482,802, 12-9-69, Cl. 244-1.

Lumoprint Zindler KG: *See*—
Elfers, Henry, 3,469,108.
Limberger, Walter, 3,427,948.
Limberger, Walter, 3,435,750.
Limberger, Walter, 3,447,870.
Limberger, Walter, 3,458,255.

Lumpkin, William B.; and Meldau, Robert F., to Phillips Petroleum Company. Analysis and control of in situ combustion of underground carbonaceous deposit. 3,454,365, 7-8-69, Cl. 23-230.

Lunardi, Paul J.: *See*—
Waltrip, Owen R., 3,480,529.

Lunau, Wigand, to Rheinische Kalksteinwerke GmbH. Feedback stabilized AC amplifier. 3,436,675, 4-1-69, Cl. 330-97.

Lunau, Wigand: *See*—
Terschanski, Adolf; and Lunau, Wigand,3,429,437.

Lund, Alfred Ernest, to Postmaster General, Her Majesty's. Methods of staying vertical poles, masts and like structures and apparatus for use therewith. 3,455,081, 7-15-69, Cl. 52-741.

Lund, Egon: *See*—
Larsen, Bendt Wegge; and Lund, Egon,3,473,687.

Lund, Ernest Kenneth: *See*—
Evans, Raymond Victor; and Lund, Ernest Kenneth,3,452,913.

Lund, Ernest K., to Singer-Cobble Limited. Tufted fabrics. 3,429,285, 2-25-69, Cl. 112-410.

Lund, Ernest K., to Singer-Cobble Limited. Tufting machines. 3,443,534, 5-13-69, Cl. 112-79.

Lund, Frederick J. Pneumatic precipitating power applying apparatus. 3,478,969, 11-18-69, Cl. 239-654.

Lund, Gerald: *See*—
Head, Frank Samuel Henry; and Lund, Gerald,3,431,306.

Lund, Johan, to General Motors Corporation. Protectively covered hybrid microcircuits. 3,469,148, 9-23-69, Cl. 317-101.

Lund, Ordell R. Convertible combination platform and step for ladders. 3,422,923, 1-21-69, Cl. 182-120.

Lund, Peter Arvid: *See*—
Ellis, Robert Hunter; and Lund, Peter Arvid,3,438,296.

Lund, Richard B.; and Vitrone, John, to Allied Chemical Corporation. α,α'-Bis(aminoaryl)-xylenes. 3,424,795, 1-28-69, Cl. 260-570.

Lund, Richard B.: *See*—
Barton, Oliver A.; Griffin, William D.; Lund, Richard B.; Vitrone, John; and Oser, Zalik,3,483,164.
Oswald, Hendrikus J.; Turi, Edith; and Lund, Richard B.,3,425,987.
Oxenrider, Bryce C.; and Lund, Richard B.,3,438,938.

Lund, Walter W., to Kurz and Root Company, Inc. Dynamoelectric machine winding arrangement with end turn insulation and method of making the same. 3,453,468, 7-1-69, Cl. 310-180.

Lund, Walter W.; and Mahloch, Carl Peter, to Kurz and Root Company, Inc. Apparatus for forming a winding. 3,452,786, 7-1-69, Cl. 140-92.1

Lundahl, Ezra C., to Hesston Corporation, Inc. Machine for handling bales. 3,443,699, 5-13-69, Cl. 214-6.

Lundahl, Ezra Cordell, to Hesston Corporation, Inc. Material unloader. 3,454,171, 7-8-69, Cl. 214-17.

Lundahl, Lennart V. S.: *See*—
Thoren, Georg M. I.; and Lundahl, Lennart V. S.,3,476,397.

Lundback, Sven: *See*—
Wennerlund, Eric; and Lundback, Sven,3,430,351.

Lundbaek, Aase: *See—*
Andrup, Erik E.; and Lundbaek, Aase,3,453,269.
Lundberg, Charles W.: *See—*
James, Raymond H.; and Lundberg, Charles W.,3,423,738.
Lundberg, Charles W.; Hewitt, Fred G.; James, Raymond H.; and Korkowski, Vincent J., to Sperry Rand Corporation. Radiation hardened recording system. 3,432,818, 3-11-69, Cl. 340-174.
Lundberg, John E.: *See—*
Lindberg, John E.; Cook, Leslie J.; and Cook, Kenneth C., 3,485,101.
Lundberg, John P.: *See—*
Larson, Robert W.; and Lundberg, John P.,3,452,887.
Larson, Robert W.; Jam, Joseph C.; and Lundberg, John P.,3,468,352.
Lundberg, Olga B. Mattress cover. 3,454,969, 7-15-69, Cl. 5-335.
Lunde, Peder, Jr. Open boat. 3,459,150, 8-5-69, Cl. 114-183.
Lunde, Thomas T. Method and apparatus for handling particulate matter. 3,438,681, 4-15-69, Cl. 302-17.
Lundeen, Allan J., to Continental Oil Company. Poly (T-butylsulfonyl chloride) aromatic compounds. 3,470,246, 9-30-69, Cl. 260-543.
Lundeen, Allan J.; and Starks, Charles M., to Continental Oil Company. Purifying alcohols by dehydrating polyhydric alcohols contained therein. 3,461,176, 8-12-69, Cl. 260-643.
Lundeen, Allan J.; and Yates, James E., to Continental Oil Company. Production of aluminum trialkoxide and aliphatic alcohols. 3,450,735, 6-17-69, Cl. 260-448.
Lundell, Vernon J., to Massey-Ferguson Services N.V. Means for compacting forage crops. 3,425,362, 2-4-69, Cl. 107-14.
Lunden, Nils: *See—*
Olson, Per-Erik; Lunden, Nils; and Ribbing, Sigwid,3,442,222.
Lunden, Sidney L., to Moore-IEM, Inc., mesne. Lumber stacker. 3,437,215, 4-8-69, Cl. 214-6.
Lundergan, Robert Graham, to AMP Incorporated. Terminal for assembling antennas. 3,453,375, 7-1-69, Cl. 174-72.
Lundgreen, Michael W., to Collins Radio Company. Rotation measuring device for very slowly rotating shaft. 3,436,655, 4-1-69, Cl. 324-70.
Lundgreen, Michael W.; Tuthill, Edward G.; and Majerus, John B., to Collins Radio Company. Echo false distance indication prevention circuit for aircraft DME and TACAN. 3,478,355, 11-11-69, Cl. 343-7.3
Lundgren, Claes Erik Gunnar; and Lichtneckert, Istvan Janos Antal, to AB Cykelfabriken Fram. Ergometer. 3,451,674, 6-24-69, Cl. 272-73.
Lundgren, Sten E.: *See—*
Jacobson, Morton J.; and Lundgren, Sten E.,3,473,960.
Lundh, Bengt Olov, to Aktiebolaget Hedemora Verkstader. Arrangement in panel-type heating radiators. 3,485,294, 12-23-69, Cl. 165-103.
Lundin, Eric Gustaf; and Rubin, Ernst Arne, to AB Purac. Installations for the purification of liquids. 3,433,359, 3-18-69, Cl. 210-199.
Lundin, Ingvar Oskar Wallentin; and Eriksson, Sven Axel, to Svenska Jastfabriksaktiebolaget. Process and means for filtration of yeast or other plant cellular material. 3,468,419, 9-23-69, Cl. 210-67.
Lundin, Lars Olof; and Salomonsson, Hans Manne Alvar, to Aktiebolaget Bofors. Track-laying vehicle which may vary in elevation while track tension remains constant. 3,477,339, 11-11-69, Cl. 89-40.
Lundin, Robert S.: *See—*
Regner, Edward G.; and Lundin, Robert S.,3,447,008.
Lundin, Robert S., to General Time Corporation. Reverse counting logic systems. 3,422,253, 1-14-69, Cl. 235-92.
Lundin, Robert S.; and Bosman, Edward T., to General Time Corporation. Electronic switching for counters. 3,466,457, 9-9-6, Cl. 307-88.
Lundin, Robert S.; and Wallentowitz, Klaus D., to General Time Corporation. Sequential timing circuit. 3,453,500, 7-1-69, Cl. 317-137.
Lundin, Seth Johan Ronald, to North American Philips Company, Inc. Binary-pulse counter having minimized cumulative stage switching delay. 3,422,254, 1-14-69, Cl. 235-92.
Lundkvist, Karl Axel. Cross-bar switching device for use in automatic telephone systems. 3,460,076, 8-5-69, Cl. 335-112.
Lundquist, Ingemar H., to Friden, Inc. Method of forming a font belt. 3,476,657, 11-4-69, Cl. 204-6.
Lundquist, Ingvar: *See—*
Carlson, Henry; Lundquist, Ingvar; Danieli, Sten Henrik; and Andersson, Rune,3,427,991.
Lundquist, Ivan, to Clark Equipment Company. Load handling apparatus. 3,485,396, 12-23-69, Cl. 214-147.
Lundsager, Christian B., to Grace, W. R., & Co. Marking pen. 3,449,054, 6-10-69, Cl. 401-198.
Lundstrom, Hans Per Olof; and Herrgard, Ole Hilding, to Sandvikens Jernverks Aktiebolag. Lubricating means for roller drill bit. 3,463,270, 8-26-69, Cl. 184-39.
Lundstrom, Hans Torbjorn, to Allmanna Svenska Elektriska Aktiebolaget. Vertical tube electric furnace. 3,470,303, 9-30-69, Cl. 13-20.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D., to Unarco Industries, Inc. Floor latch strip for railway cars. 3,422,773, 1-21-69, Cl. 105-376.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D., to Unarco Industries, Inc. Floor latch strip for railway cars. 3,478,700, 11-18-69, Cl. 105-369.
Lundvik, Karl Vilhelm Bertil, to Stal Refrigeration Aktiebolag. Oil regulating means for compressors. 3,429,502, 2-25-69, Cl. 230-206.
Lundy, Alvin S., to Schneible, Claude B., Co. Exhaust cap apparatus. 3,453,946, 7-8-69, Cl. 98-58.
Lundy, Claude; and Pouliquin, Marc, to Commissariat A L'Energie Atomique. Mechanism for driving a component in translational motion along a closed curve. 3,424,015, 1-28-69, Cl. 74-50.
Lundy Electronics & Systems, Inc.: *See—*
Star, Joseph, 3,427,769.
Lundy, Floyd A.: *See—*
McKibben, Richard K.; and Lundy, Floyd A.,3,473,660.
Lunin, Oleg Grigorievich. Lift-drop table for cake making appliances, more specifically to cake dressing appliances. 3,481,209, 12-2-69, Cl. 74-89.15
Lunine, David, to Litton Systems, Inc. Multilayer laminate. 3,436,819, 4-8-69, Cl. 29-628.
Luning, Alfred O. Mounting device for telescope sight and gun with azimuth and elevation adjusting means. 3,471,932, 10-14-69, Cl. 33-50.
Lunkenheimer Company: *See—*
Urban, John B., 3,458,171.
Lunkenheimer Company, The: *See—*
Gustafson, Floyd C., 3,423,661.
Lunn, William H. W.; and Farkas, Eugene, to Lilly, Eli, and Company. Method for producing $\Delta^9(11)$ unsaturation in estrone and related compounds. 3,471,528, 10-7-69, Cl. 260-397.45
Lunquist, Richard E.: *See—*
Carsello, Richard D.; and Lunquist, Richard E.,3,465,294.
Lunquist, Richard E.; and Carsello, Richard D., to Motorola, Inc. Physical shock false inhibitor circuit for simultaneous tone decoder. 3,473,152, 10-14-69, Cl. 340-171.
Lunsford, Carl D.; and Cale, Albert D., Jr., to Robins, A. H., Company, Incorporated. 1-Hydrocarbon-3-aryl-4-substituted ethyl-2-imidazolidinones. 3,429,893, 2-25-69, Cl. 260-309.7
Lunsford, Carl D.; and Fielden, Marvel L., to Robins, A. H., Company, Incorporated. 3-Substituted-5(2-haloethyl)-2-oxazolidinones. 3,423,418, 1-21-69, Cl. 260-307.
Lunsford, Carl D.; and Fielden, Marvel L., to Robins, A. H., Company, Incorporated. 5-Substituted-2-oxazolidinones. 3,457,267, 7-22-69, Cl. 260-294.
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr., to Robins, A. H., Company, Incorporated. Compositions containing 3-di-substituted methylene pyrrolidines and methods of treating depression. 3,458,635, 7-29-69, Cl. 424-274.
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr., to Robins, A.H., Company, Incorporated. Esters of 1-substituted-3-disubstituted- pyrrolidinemethanols. 3,479,370, 11-18-69, Cl. 260-326.3
Lunsford, Carl D.; and Welstead, William J., Jr., to Robins, A. H., Company, Incorporated. 5-[(Aryldehydropiperidinyl- and aryldehydro- pyrrolidinyl)-lower-alkyl]-2-oxazolidinones. 3,455,941, 7-15-69, Cl. 260-295.
Lunsford, Carl D.: *See—*
Helsley, Grover C.; and Lunsford, Carl D.,3,424,761.
Lunsford, Dallas F., to Dana Corporation. Bearing member having a composite coating. 3,421,307, 1-14-69, Cl. 57-119.
Lunsford, Harod D., to International Nickel Company, Inc., The. Gun drill. 3,422,706, 1-21-69, Cl. 77-68.
Lunsford, Thomas J. Component package with dust cover. 3,444,993, 5-20-69, Cl. 206-56.
Lunt, Richard R., Jr., to Du Pont de Nemours, E. I., and Company. Flame retardant nylon composition. 3,440,211, 4-22-69, Cl. 260-45.7
Luoma, Heikki. Cariostatic buffer composition. 3,462,366, 8-19-69, Cl. 252-1.
Luoma, Paul E.: *See—*
Otrhalek, Joseph V.; and Luoma, Paul E.,3,425,948.
Otrhalek, Joseph V.; and Luoma, Paul E.,3,441,511.
Luperi, Mario J.; Tick, Sanford J.; and Taylor, Elliot L., to Thiokol Chemical Corporation. Flexible member variable area injector for rocket motors. 3,482,397, 12-9-69, Cl. 60-39.69
Lupfer, Dale E., to Phillips Petroleum Company. Control of exothermic reactions. 3,471,582, 10-7-69, Cl. 260-677.
Lupfer, Dale E.: *See—*
Johnson, Merion L.; and Lupfer, Dale E.,3,420,748.
Johnson, Merion L.; and Lupfer, Dale E.,3,449,215.
Lupfer, David A., to Nytronics, Inc. Electrical component with a cladded lead. 3,457,539, 7-22-69, Cl. 338-322.
Lupi, Nazareno: *See—*
Dakli, Ibrahim; Lupi, Nazareno; and Morini, Marcello,3,423,467.
Lupichuk, Andrew: *See—*
Riedeman, William L.; and Lupichuk, Andrew,3,451,958.

Lupin, Eli R., to Ford Motor Company. Flow metering orifice with automatic compensation for change in viscosity. 3,438,389, 4-15-69, Cl. 137-504.
Lupinski, John H.; and Hertz, Jerome J., to General Electric Company. Electronically conductive polymers compositions. 3,424,698, 1-28-69, Cl. 252-500.
Lupinski, John H.; and Hertz, Jerome J., to General Electric Company. Metal plated non-conductive substrates. 3,481,840, 12-2-69, Cl. 204-30.
Luppold, Robert H., Jr.; and Gill, Joseph, to Westinghouse Electric Corporation, mesne. Low level direct current amplifier. 3,435,355, 3-25-69, Cl. 330-9.
Luque, Rafael Fernandez, to Shell Oil Company. Leg for supporting a marine structure. 3,456,448, 7-22-69, Cl. 61-46.5
Luque, Rafael Fernandez, to Shell Oil Company. Anchor. 3,470,841, 10-7-69, Cl. 114-206.
Lurie, Randolph D., to Continental Can Company, Inc. Method of drawing cup-shaped articles. 3,420,930, 1-7-69, Cl. 264-292.
Lurie, Randolph D.: *See—*
Garver, Edward B.; and Lurie, Randolph D.,3,452,396.
Lusby, Thomas K., Jr. Circuit module extractor. 3,443,297, 5-13-69, Cl. 29-203.
Lusch, Nicholas: *See—*
Weinberger, Royal I.; and Lusch, Nicholas,3,477,200.
Luscher, Werner: *See—*
Knoth, Walter; and Luscher, Werner,3,431,493.
Luse, Wallace K.; and Smith, George E., to Esso Research and Engineering Company. Pipeline meter prover. 3,421,360, 1-14-69, Cl. 73-3.
Lushbaugh, Warren A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,413.
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,403.
Lusher, Kenneth G., to Owens-Illinois, Inc. Method of offset printing multicolor images on glass articles. 3,476,045, 11-4-69, Cl. 101-129.
Lusk, Elmer C., to Edward Lead Company, mesne. Differentially vented carrying cask for radioactive materials. 3,466,444, 9-9-69, Cl. 250-108.
Lusk, George E., to G & W Electric Specialty Company. Prefabricated stress control shield. 3,439,110, 4-15-69, Cl. 174-73.
Lusk, George E., to G & W Electric Specialty Company. Power cable termination with improved entrance system. 3,445,580, 5-20-69, Cl. 174-12.
Lusk, George E., to G & W Electric Specialty Company. Standoff high voltage insulators. 3,449,508, 6-10-69, Cl. 174-212.
Luskow, Alfred Allan, to Marconi Instruments Limited. Electrical power metering device for insertion in a transmission line. 3,447,083, 5-27-69, Cl. 324-106.
Lusskin, Robert M.; Backer, Frank; and Larson, John R., to Universal Oil Products Company. Cross-linked polyesters. 3,423,371, 1-21-69, Cl. 260-75.
Lust, Siegmund: *See—*
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart,3,452,076.
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst,3,476,545.
Lust, Sigmund: *See—*
Mohr, Gunther; Niethammer, Konrad; Lust, Sigmund; and Schneider, Gerhart,3,468,895.
Schmidt, Karl Gunther; Mohr, Gunther; and Lust, Sigmund,3,481,946.
Lusted, Arthur Wyndham, to General Motors Corporation. Gearshift lever assemblies. 3,482,465, 12-9-69, Cl. 74-473.
Lustenader, Edward L., to General Electric Company. Heat exchanger. 3,444,924, 5-20-69, Cl. 165-164.
Lustenader, Edward L., to General Electric Company. Axial water-steam separator. 3,481,120, 12-2-69, Cl. 55-432.
Lustenader, Edward L.; and Van Luik, Frank W., Jr., to General Electric Company. Vortex-electrostatic separator. 3,478,494, 11-18-69, Cl. 55-127.
Lusteroid Container Company, Inc.: *See—*
McGrath, Frank, 3,448,890.
Lustig, Leonard C., to Whirlpool Corporation. Cabinet structure. 3,421,803, 1-14-69, Cl. 312-350.
Luteijn, Anthonie Izaak: *See—*
Berghout, Cornelis Willem; Hokkeling, Pieter; and Luteijn, Anthonie Izaak,3,421,207.
Lutes, George F., Jr.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,482,179.
United States of America,National Aeronautics and Space Administration, Administrator, 3,461,393.
Lutgenau, Rudolf O., to Siemens Aktiengesellschaft. Method for identification of random signal pulses. 3,444,519, 5-13-69, Cl. 340-147.
Luth, Erwin: *See—*
Rover, Martin; Luth, Erwin; Schmitz, Lambert; and Linsert, Friedrich,3,433,424.
Luther, Guenter; Schulze, Martin; and Richter, Klaus, to Koppers, Heinrich, Gesellschaft mit beschrankter Haftung. Method of separating aromatic compounds from hydrocarbon mixtures containing the same by extrac- tive distillation with an N-substituted morpholine. 3,434,936, 3-25-69, Cl. 203-32.
Luther, Gunter; Ludwig, Jurgen; and Schulze, Martin, to Koppers, Heinrich, Gesellschaft mit beschrankter Haftung. Plurality of extractive-distillation zones and stripping zones. 3,445,537, 5-20-69, Cl. 260-674.
Luther, Gunther: *See—*
Grimm, Wilhelm; Guntsch, Fritz Rudolf; Strauss, Werner; and Luther, Gunther,3,426,179.
Luther, William B.: *See—*
Davis, Frank C.; Luther, William B.; and Martinson, Donald L.,3,427,269.
Luthi, Oscar, to Improved Machinery Inc. Filter segment for disc filters. 3,438,505, 4-15-69, Cl. 210-486.
Luthman, Paul A.: *See—*
Bing, John H.; Vagedes, Lawrence J.; Luthman, Paul A.; and Colwill, Herbert W.,3,458,088.
Lutron Electronics Company, Inc.: *See—*
Spira, Joel S.; and Licata, Joseph, 3,422,309.
Lutsky, Sidney. Mattress. 3,462,777, 8-26-69, Cl. 5-345.
Lutter, Alexander, to Escher Wyss, Limited. Centrifuging device for separating a mixture into solids and liquid. 3,463,318, 8-26-69, Cl. 210-188.
Lutter, Theodor, to Original Hanau Quarzlampen GmbH. Lighting arrangement. 3,463,914, 8-26-69, Cl. 240-1.4
Luttich, Werner Richard Gotthard. Method of influencing tobacco smoke aroma. 3,476,118, 11-4-69, Cl. 131-143.
Lutwitzi, Lawrence E.; and Gerlach, John L., to Nalco Chemical Company. Process for preparing alkali metal aluminate tetrahydrate crystals. 3,423,188, 1-21-69, Cl. 23-301.
Lutz, Albert William; and Magee, Richard Joseph, to American Cyanamid Company. Alkysulfonylbenzimidazoles. 3,480,643, 11-25-69, Cl. 260-309.2
Lutz, Edgar: *See—*
Gluck, Roswitha; Lutz, Edgar; Riess, Horst; and Weinmann, Klaus,3,442,724.
Lutz, Edgar, to Semikron Gesellschaft fur Gleichrichterbau und Elektronik m.b.H. Method and article for making switchable semiconductor elements. 3,435,305, 3-25-69, Cl. 317-235.
Lutz, Edgar, to Semikron Gesellschaft fur Gleichrichterbau und Elektronik m.b.H. Semiconductor element having separated cathode zones. 3,474,303, 10-21-69, Cl. 317-234.
Lutz, Edgar; Haserer, Johann; and Pohlau, Claus, to Semikron Gesellschaft fur Gleichrichterbau und Elektronik m.b.H. Method for producing a semiconductor element. 3,462,829, 8-26-69, Cl. 29-589.
Lutz, Erich: *See—*
Deimling, Heinz; and Lutz, Erich,3,472,955.
Lutz, Eugen, KG, Maschinenfabrik: *See—*
Bergler, Otto, 3,431,686.
Lutz, Eugene F.; Kelly, Joe T.; and Hall, David W., to Marathon Oil Company. Process for the synthesis of chloroprene and its derivatives and co-products. 3,481,994, 12-2-69, Cl. 260-655.
Lutz, Eugene F.: *See—*
Hantman, Lionel L.; Lutz, Eugene F.; and Schroeder, George A.,3,474,795.
Lutz, Georg, to Telefunken Patentverwertungsgesellschaft m.b.H. Production of circuits. 3,468,018, 9-23-69, Cl. 29-577.
Lutz, Hans. Safety frames in tractors. 3,473,841, 10-21-69, Cl. 296-102.
Lutz, Hans; Gailing, Otto; and Klingbeil, Werner, to Bosch, Robert, G.m.b.H. Damping arrangement for damping the swinging movement of a member about a swing axis. 3,429,051, 2-25-69, Cl. 33-220.
Lutz, Helmut. Universal joint. 3,481,157, 12-2-69, Cl. 64-7.
Lutz, John G.; and Spyridakis, Emanuel G., to Ingersoll-Rand Company. Vane-type fluid motor. 3,469,500, 9-30-69, Cl. 91-121.
Lutz, Karl Anton, to Siemens Aktiengesellschaft. Multi-stage counting apparatus having circulating time stores. 3,444,359, 5-13-69, Cl. 235-92.
Lutz, Kenneth V. Bulldozer corner bit. 3,465,833, 9-9-69, Cl. 172-719.
Lutz, Kenneth V. Replaceable shoes for paving augers. 3,485,341, 12-23-69, Cl. 198-213.
Lutz, Michael. Mold for making a container having an integrally molded two-piece hinge. 3,456,913, 7-22-69, Cl. 249-63.
Lutz, Otto. Pump. 3,422,749, 1-21-69, Cl. 103-130.
Lutz, Otto. Hydraulic friction clutch. 3,458,020, 7-29-69, Cl. 192-58.
Lutz, Phillip A.: *See—*
Guyton, James H.; Lutz, Phillip A.; and Stedry, Edward G.,3,447,088.
Lutzenberger, Kurt: *See—*
Bailey, James R.; and Lutzenberger, Kurt,3,435,163.
Bailey, James R.; and Lutzenberger, Kurt,3,485,966.
Lutzer, Lawrence D.: *See—*
Lutzker, Robert S., 3,445,030.

Lutzker, Robert S., 33 1/3 to Lutzer, Lawrence D. Can closure plug. 3,445,030, 520-69, Cl. 220-60.
Lutzmann, Hans Harald, to Ethyl Corporation. Multilayer polymeric film. 3,423,231, 1-21-69, Cl. 117-68.5
Luviano, John J., to Crown Cork & Steel Company, Inc. Revered easy open ring tab. 3,441,168, 4-29-69, Cl. 220-53.
Luwa AG: *See—*
Ferri, Hans, 3,459,010.
Ferri, Johann, 3,420,048.
Gasser, Hermann; and Wuest, Stephan, 3,438,189.
Luwa Ltd.: *See—*
Ferri, Hans W., 3,461,888.
Ferri, Johann Walter, 3,481,116.
Nagel, Ernst; and Steinmetz, Werner, 3,464,078.
Lux, Adalbert A.: *See—*
Stange, Klaus K.; Lux, Adalbert A.; and Michaels, Thomas B.,3,469,834.
Lux, Edward. Sound producing device for fishing. 3,468,053, 9-23-69, Cl. 43-42.31
Luxaire, Inc.: *See—*
Hine, Louis P., Jr., 3,434,466.
Hine, Louis P., Jr., 3,457,020.
Luxmoore, Anthony Rodger: *See—*
Holister, Geoffrey Stanley; Luxmoore, Anthony Rodger; and Parish, Colin Clive,3,453,739.
Luxton, Dean H., to Corrigan, Robert E. Teaching system. 3,461,571, 8-19-69, Cl. 35-9.
Luyk, Kenneth E.: *See—*
Rolles, Rolf; and Luyk, Kenneth E.,3,437,612.
Luyster, Thomas, Jr.: *See—*
Jeff, William C.; and Luyster, Thomas, Jr.,3,420,692.
Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A.,3,480,691.
Luz, Siegbert: *See—*
Riedel, Wolfgang; and Luz, Siegbert,3,462,974.
Luzaich, Samuel: *See—*
Black, James B.; and Luzaich, Samuel,3,447,397.
Luzar, Ronald V.: *See—*
Henke, Alfred M.; Luzar, Ronald V.; and McKinney, Joel D.,3,487,011.
Luzzatto, Ettore. Method and device for severing and mechanically removing yarn ends in circular knitting machines for fine knitted goods, in particular stockings. 3,420,076, 1-7-69, Cl. 66-140.
Lyakhovich, Igor Fedorovich: *See—*
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich,3,443,836.
Lyall, Charles E., to Culligan, Inc. Chemical solution feeder. 3,434,490, 3-25-69, Cl. 137-101.31
Lyall, Charles E., to Culligan, Inc. Compact water softener and brine storage tank. 3,465,880, 9-9-69, Cl. 210-136.
Lyall, Charles E.; Morrison, Edwin A.; and Vesely, Robert B., to Culligan, Inc. Mounting bracket for water conditioning tank. 3,441,047, 4-29-69, Cl. 137-343.
Lyall Electric, Inc.: *See—*
Miller, Hubert B.; and Kipp, Kenneth W., 3,424,857.
Lybarger, Robert A., to Glass-Tite Industries, Inc. Wire beader. 3,461,532, 8-19-69, Cl. 29-203.
Lyben, Raymond G.: *See—*
Lenane, Denis L.; and Lyben, Raymond G.,3,485,593.
Lybrook, Arnold T., to Ranco Incorporated. Temperature control system. 3,428,116, 2-18-69, Cl. 165-26.
Lych, Don Murl, to Abbott Laboratories. Steroid analogs. 3,442,893, 5-6-69, Cl. 260-240.
Lyczak, Henry A.: *See—*
Martin, Vincent W.; and Lyczak, Henry A.,3,447,052.
Lyden, Anders Gustaf: *See—*
Dissing, Erik; and Lyden, Anders Gustaf,3,479,593.
Lyden, Anders Gustaf, to Aktiebolaget Atomenergi. Transistor switch. 3,424,922, 1-28-69, Cl. 307-241.
Lydick, Howard K.: *See—*
Popa, Lazar, Jr.; and Lydick, Howard K.,3,485,896.
Lydle, John E. Fireplace front or screen. 3,459,173, 8-5-69, Cl. 126-202.
Lydle, John E.: *See—*
Whited, Harry H.; and Lydle, John E.,3,426,827.
Lydtin, Hans Jurgen: *See—*
Frohner, Klaus; Horster, Horst; Lydtin, Hans Jurgen; and Reifenschweiler, Otto,3,479,550.
Ganser, Hans Gunther; Kauer, Erhard; and Lydtin, Hans Jurgen,3,458,270.
Lyell, Hugh R., to Dowson & Dobson Limited. Means for securing standpipes to irrigation pipelines. 3,443,581, 5-13-69, Cl. 137-322.
Lyerly, William M.: *See—*
Dunglinson, Colin; and Lyerly, William M.,3,431,155.
Lyerly, William M., to Du Pont de Nemours, E. I., and Company. Gelation of galactomannan containing water-bearing explosives. 3,445,305, 5-20-69, Cl. 149-39.
Lyerly, William M., to Du Pont de Nemours, E. I., and Company. Fatty alcohol sulfate modified water-bearing explosives containing nitrogen-base salt. 3,471,346, 10-7-69, Cl. 149-47.
Lyghounis, Evangelo, to Societa Italiana Telecommunicazioni Siemens S.p.A. Circuits for reducing distortion in a demodulator for data transmission. 3,421,089, 1-7-69, Cl. 325-320.
Lygo, Geoffrey Norman. Looms for weaving cut-pile fabrics. 3,450,167, 6-17-69, Cl. 139-47.
Lyhus, Arlan J., to Digi-Data Corporation. Center unwind web supply. 3,424,390, 1-28-69, Cl. 242-55.
Lykes Bros., Inc.: *See—*
Linardos, Stathis G.; Elmhurst, Richard F.; and Elmhurst, William A., 3,428,824.
Lykes Enterprises, Inc.: *See—*
Schwendtner, Alfred H., 3,437,066.
Lyle, Charles W. Dew point temperature indicator. 3,434,333, 3-25-69, Cl. 73-17.
Lyle, Frederick W. Remote sound-control for broadcast receivers. 3,436,663, 4-1-69, Cl. 325-392.
Lym, Vernon W., to Hughes Aircraft Company. Voltage adjustable breakdown diode employing metal oxide silicon field effect transistor. 3,444,397, 5-13-69, Cl. 307-302.
Lym, Vernon W., to Hughes Aircraft Company. Frequency tracking circuit. 3,487,461, 12-30-69, Cl. 343-7.
Lyman, Arthur T., to General Electric Company. Voltage surge protector for submerged deep well pump motors. 3,435,290, 3-25-69, Cl. 317-13.
Lyman, Frank, Jr., to Cambridge Thermionic Corporation. Electric clip connector. 3,456,234, 7-15-69, Cl. 339-253.
Lyman, Hugh M., Jr., to Granite Mill & Texture Co. Portable, multiple-use cabinet. 3,450,451, 6-17-69, Cl. 312-198.
Lyman, Hugh M. Reversible coilable partition. 3,451,463, 6-24-69, Cl. 160-23.
Lyman, Hugh M. Drive means for partitions and the like. 3,465,805, 9-9-69, Cl. 160-23.
Lyman, John B., to Whirlpool Corporation. Article washing apparatus. 3,444,870, 5-20-69, Cl. 134-179.
Lyman, Joseph, to Cambridge Thermionic Corporation. Suspension apparatus. 3,428,371, 2-18-69, Cl. 308-10.
Lyman, Joseph, to Cambridge Thermionic Corporation. Magnetic suspension apparatus. 3,473,852, 10-21-69, Cl. 308-10.
Lyman, Merton C., to Cameron Machine Company. Apparatus and method for handling long sheets. 3,477,711, 11-11-69, Cl. 271-74.
Lyman, Richard E., to United States Steel Corporation. Rotary gate for bottom pour vessel. 3,430,644, 3-4-69, Cl. 137-329.06
Lyman, Richard E., to United States Steel Corporation. Method of pre-heating a refractory lined vessel. 3,439,072, 4-15-69, Cl. 263-52.
Lyman, Richard E., to United States Steel Corporation. Burner for pre-heating a refractory lined vessel. 3,480,376, 11-25-69, Cl. 431-353.
Lymar, Wasyl, 1/2 to Haney, Lowell B. Automobile safety device. 3,441,103, 4-29-69, Cl. 180-82.
Lyn-Bar Enterprises: *See—*
Kemper, James M., 3,461,862.
Lynch, Arthur E.: *See—*
McPeek, William T.; and Lynch, Arthur E.,3,451,262.
Lynch, Charles C. Structural panel and process of making same. 3,474,584, 10-28-69, Cl. 52-309.
Lynch, Charles W.: *See—*
Pfeiffer, Albert; Cogswell, Richard V.; Lynch, Charles W.; and Kunert, Herbert B.,3,478,926.
Mazdiyasni, Khodabakhsh S.; Lynch, Charles; and Smith, Jonathan S., II,3,432,314.
Lynch, Conrad L.: *See—*
Gerhardt, Herbrt W.; and Lynch, Conrad L.,3,445,412.
Lynch Corporation: *See—*
Brueckner, Alexander W., 3,469,442.
Cady, Mark J.; and Eidnes, Dag J., 3,465,580.
Hamilton, Joseph R., 3,449,104.
Stutske, William A.; and Henry, Kenneth J., 3,469,672.
Travis, James C., 3,438,837.
Lynch, Don M., to Abbott Laboratories. Novel-6-substituted-1-(piperidylalkyl)-1,2,3,4- tetrahydronaphthalenes. 3,453,283, 7-1-69, Cl. 260-294.7
Lynch, Dunstan W. P., to Foote Mineral Company, mesne. Alloy for addition of columbium to steel. 3,445,223, 5-20-69, Cl. 75-123.
Lynch, Eric Royle; and Cummings, William, to Monsanto Chemicals Limited. Bis(oxadiazole) derivatives. 3,481,949, 12-2-69, Cl. 260-307.
Lynch, Eugene F.: *See—*
Fernald, Herbert B.; and Lynch, Eugene F.,3,477,813.
Lynch, Francis K.: *See—*
Dutton, Lloyd K.; and Lynch, Francis K.,3,485,178.
Mooney, Walter G.; Dutton, Lloyd K.; and Lynch, Francis K.,3,432,187.
Lynch, George J. Self-propelled road vehicle for moving rail cars. 3,427,044, 2-11-69, Cl. 280-472.
Lynch, Geraldine B., to Minnesota Mining and Manufacturing Company. Symmetrical copying lens of the inverse Gauss type. 3,439,976, 4-22-69, Cl. 350-215.

Lynch, Geraldine B.: *See—*
Turula, Eugene; Lynch, Geraldine B.; and Gilkeson, David C.,3,454,327.
Lynch, Gerry: *See—*
Farley, John David, 3,456,661.
Lynch, Ira R., to Papercone Corporation. Forming apparatus for conical paper bands and the like. 3,425,325, 2-4-69, Cl. 93-79.
Lynch, James Edward; Erline, Dexter Wyman; and Morehart, Ronald Charles, to AMP Incorporated. Electrical connector having stabilizing means and free-floating contact section. 3,444,504, 5-13-69, Cl. 339-64.
Lynch, James F., Jr.: *See—*
Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A.,3,480,691.
Lynch, John E.: *See—*
Tringali, Alfred M.; Lynch, John E.; and Friedman, Morton,3,475,367.
Lynch, John J.: *See—*
Nelson, Robert M.; Gott, Gordon E.; and Lynch, John J.,3,442,689.
Lynch, John M.; and Hill, John G., to United Aircraft Corporation. Multiple electrode vacuum arc furnace and method of remelt purification. 3,480,716, 11-25-69, Cl. 13-9.
Lynch, Robert J.: *See—*
Horton, John W.; and Lynch, Robert J.,3,480,830.
Lynch, Robert J., to International Business Machines Corporation. Solid state sensing and encoding device. 3,458,689, 7-29-69, Cl. 235-61.11
Lynch, Robert T.; and Thomas, David G., to Bell Telephone Laboratories, Incorporated. Solution growth of nitrogen doped gallium phosphide. 3,462,320, 8-19-69, Cl. 148-171.
Lynch, Thomas H.; and Patten, Hudson T., III, to Bunker-Ramo Corporation, The. Apparatus for precise sound path in velocimeter. 3,482,647, 12-9-69, Cl. 181-0.5
Lynch, Thomas J., to Avco Corporation. Fluid spring device. 3,428,303, 2-18-69, Cl. 267-65.
Lynch, Thomas J., to United Aircraft Corporation. System for combining plural isolated physiological signals without mutual interference and with reduced noise level. 3,465,103, 9-2-69, Cl. 179-15.
Lynch, Thomas M. Apparatus for illustrating an optical illusion. 3,455,548, 7-15-69, Cl. 272-8.
Lynch, William J.; and Kunc, Frank C., to North American Rockwell Corporation. Filter cleaning and coating apparatus. 3,465,715, 9-9-69, Cl. 118-70.
Lynch, William T., to Bell Telephone Laboratories, Incorporated. Tunable solid state laser. 3,439,169, 4-15-69, Cl. 250-199.
Lynch, William T., to Bell Telephone Laboratories, Incorporated. Memory cell utilizing optical read-in. 3,486,031, 12-23-69, Cl. 250-209.
Lynd, Inez A., to Lynd, Wayne, trustee. Phonogram teaching device. 3,464,124, 9-2-69, Cl. 35-35.
Lynd, Wayne, trustee: *See—*
Lynd, Inez A., 3,464,124.
Lynes, Arthur Edward; and Martland, Laurie, to Ford Motor Company. Motor vehicle suspension and drive arrangement. 3,439,767, 4-22-69, Cl. 180-73.
Lynes, Arthur E.: *See—*
Hall, Leslie; and Lynes, Arthur E.,3,477,538.
Hall, Leslie; Lynes, Arthur E.; and Martland, Laurie,3,451,469.
Lynes, Dennis J.; and Waaben, Sigurd G., to Bell Telephone Laboratories, Incorporated. Balanced bistable multivibrator digital detector circuit. 3,480,800, 11-25-69, Cl. 327-292.
Lynes, Inc.: *See—*
Conover, George E., 3,437,142.
Malone, Billy C., 3,477,506.
Lynes, Roberts Kitchener; Willis, John Marden; and Taylor, John William, to Bullfinch (Gas Equipment) Limited. Electromagnetically operated valve with polarity reversing switch. 3,484,074, 12-16-69, Cl. 251-65.
Lynes, William F., Sr.: *See—*
Garrard, Wilfred C. J.; and Lynes, William F., Sr.,3,424,407.
Lynge, Carl H., to Hamlin-Stevens, Incorporated. Metal articles having polytetrafluoroethylene- coated pressing surfaces and methods of their manufacture. 3,480,461, 11-25-69, Cl. 117-45.
Lynk, Charles N., Jr.; and Kaczmarek, Ronald L., to Motorola, Inc. Frequency converting and selecting system including mixer circuit with field effect transistor coupled to band-pass filter through impedance inverting circuit. 3,483,473, 12-9-69, Cl. 325-436.
Lynn, David. Dispensing container for pipe tobacco. 3,478,931, 11-18-69, Cl. 222-166.
Lynn, John W.: *See—*
Brotherton, Thomas K.; and Lynn, John W.,3,427,346.
Brotherton, Thomas K.; and Lynn, John W.,3,459,786.
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr.,3,454,606.
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr.,3,470,271.
Lynn, Lawrence; and Anderson, Roy M., to Riviana Foods Inc. Method for preparing precooked rice flour. 3,432,309, 3-11-69, Cl. 99-93.
Lynn, Lewis G., to Xerox Corporation. Isokinetic particle sampler. 3,473,388, 10-21-69, Cl. 73-422.
Lynn, Lewis G., to Xerox Corporation. Particle size and distribution analyzing apparatus. 3,478,600, 11-18-69, Cl. 73-432.
Lynn, Merrill: *See—*
Makowski, Henry S.; and Lynn, Merrill,3,439,064.
Lynn, Richard G., Sr.; Machulda, James R.; and Hill, John L., to Control Data Corporation. Pumping system with inertia stabilization. 3,431,858, 3-11-69, Cl. 103-35.
Lynn, Robert J.; and Daugirdas, Kristupas, to Vapor Corporation. Door operator. 3,438,148, 4-15-69, Cl. 49-13.
Lynn, Robert J.; and Daugirdas, Kristupas, to Vapor Corporation. Slide-glide-plug door mechanism. 3,462,881, 8-26-69, Cl. 49-111.
Lynn, Seymour; and Ries, Warren Calvin, to RCA Corporation. Capacitor anode holder. 3,449,650, 6-10-69, Cl. 317-257.
Lynn, William J.; and Loop, James P., to Launders of Indiana Inc. Car wash apparatus. 3,443,993, 5-13-69, Cl. 134-123.
Lynn, William J.: *See—*
Mills, Tonk; and Lynn, William J.,3,444,622.
Lynnworth, Lawrence C., to Parametrics, Inc. Rolling ultrasonic transducer. 3,423,993, 1-28-69, Cl. 73-71.5
Lynnworth, Lawrence C., to Parametrics, Inc. Ultrasonic measurement. 3,477,278, 11-11-69, Cl. 73-53.
Lynnworth, Lawrence C.: *See—*
Carnevale, Edmund H.; Lynnworth, Lawrence C.; and Lawson, Ronald N.,3,425,064.
Lynott, John J.: *See—*
Litz, Frank A.; and Lynott, John J.,3,439,153.
Lyon, Cameron K.; and Applewhite, Thomas H., to United States of America, Agriculture. Adducts of hexahalocyclopentadienes and ricinoleates and production of polyurethane plastics therefrom. 3,466,253, 9-9-69, Cl. 260-2.5
Lyon, Clifford R. Portable fishing float. 3,471,875, 10-14-69, Cl. 9-2.
Lyon, David M., to General Motors Corporation. Keyed matrix. 3,446,271, 5-27-69, Cl. 165-9.
Lyon, Gary F., to Motorola, Inc. Electroresponsive controls. 3,428,820, 2-18-69, Cl. 307-64.
Lyon, Harry C. Elevator for extension ladders. 3,428,145, 2-18-69, Cl. 182-103.
Lyon, Herbert Ralph: *See—*
Davis, Burns; and Lyon, Herbert Ralph,3,461,169.
Lyon, James. Beak trimmer and cauterizing machine having plural adjustable beak-holding elements. 3,450,137, 6-17-69, Cl. 128-303.1
Lyon, James. Rectilinear cutting attachment for beak trimmer. 3,463,155, 8-26-69, Cl. 128-303.1
Lyon, Lloyd B., to American Hydrocarbon Company. Mulch and coated seed composition comprising humates, heat absorbent particles, bitumen, and an emulsifier. 3,422,569, 1-21-69, Cl. 47-9.
Lyon Metal Products, Incorporated: *See—*
Schreyer, Kenneth D., 3,439,466.
Schreyer, Kenneth D., 3,450,296.
Schreyer, Kenneth D., 3,450,304.
Lyon, Richard K., to Esso Research and Engineering Company. Hydrogen storage system. 3,479,165, 11-18-69, Cl. 48-190.
Lyonnet, Jaques: *See—*
Saligny, Claude; and Lyonnet, Jaques,3,449,153.
Lyons, Charles E., to Dow Chemical Company, The. 3,3-dichloropropyne. 3,454,662, 7-8-69, Cl. 260-654.
Lyons, Charles E.; McDaniel, Donald M.; and Wade, Jack R., Jr., to United States of America, Army. Missile plastic container. 3,465,871, 9-9-69, Cl. 206-3.
Lyons, Charles R. Asparagus harvester. 3,426,516, 2-11-69, Cl. 56-327.
Lyons, Delbert T.; and Manning, Wallace F. Identification marker. 3,422,556, 1-21-69, Cl. 40-10.
Lyons, Donald F., 1/2 to Varesi, Steve F. Gun sling. 3,422,497, 1-21-69, Cl. 24-3.
Lyons, Edward F.: *See—*
Kretsch, Kenneth P.; and Lyons, Edward F.,3,435,416.
Lyons, Ernest H., Jr. Plating platinum metals on chromium. 3,467,584, 9-16-69, Cl. 204-32.
Lyons, Ernest H., Jr.; Maget, Henri J. R.; and Roethlein, Richard J., to General Electric Company. Process for codepositing platinum metal and a wet-proofing polymer. 3,461,044, 8-12-69, Cl. 204-3.
Lyons, Harold D.: *See—*
Burdick, Donald L.; and Lyons, Harold D.,3,440,188.
Nowlin, Gene; and Lyons, Harold D.,3,449,307.
Lyons, Harold James: *See—*
Thorne, Benjamin Graham; Lyons, Harold James; and Dingfeld, Albert Vincent,3,441,107.
Lyons, Henry W. Reciprocating fluid motor. 3,443,271, 5-13-69, Cl. 15-22.
Lyons, J., & Company, Limited: *See—*
Smith, Peter H., 3,423,679.
Lyons, James Ralph, to Lever Brothers Company. Solvent dyeing of living human hair. 3,480,377, 11-25-69, Cl. 8-10.1
Lyons, John, to Buzzards Corporation, The. Stock winding apparatus. 3,424,389, 1-28-69, Cl. 242-25.

Lyons, Joseph F.; Wisner, Jackson W., Jr.; and Thomas, Paul R., to Texaco Inc. Power steering process and lubricating composition. 3,429,820, 2-25-69, Cl. 252-78.
Lyons, Lawrence Henry, to Du Pont de Nemours, E. I., and Company. Apparatus for control of package winding. 3,445,837, 5-20-69, Cl. 340-309.4
Lyons, Leland R., to National Lead Company. Treatment of hygroscopic magnesium chloride salts for removing oxygen containing contaminants. 3,484,191, 12-16-69, Cl. 23-91.
Lyons, Mark F.; and Weidenbaum, Bernhardt, to United States of America, Atomic Energy Commission. Method of operating a nuclear reactor. 3,446,703, 5-27-69, Cl. 176-37.
Lyons, Merle E.: *See—*
Satkunas, Bruno; and Lyons, Merle E.,3,472,983.
Lyons, Stanley Lewis, to Hall Harding Limited. Means for assembling together in coaxial relation two parts of different diameter. 3,430,321, 3-4-69, Cl. 29-129.
Lyons, Thomas P., Jr.: *See—*
Russell, Frank L.; and Lyons, Thomas P., Jr.,3,464,168.
Lysakowski, Edward; and Kenny, John, to British Iron and Steel Research Association, The. Vane-type powder feeder. 3,432,884, 3-18-69, Cl. 18-9.
Lyshkow, Norman A., to Precision Scientific Company. Colorimetric reagent for analysis of sulfur dioxide in air. 3,433,597, 3-18-69, Cl. 23-232.
Lyster, Norman J.; and Chambers, Clarence M., said Lyster assor. to Grace, W. R., & Co. Heat sealing apparatus. 3,422,596, 1-21-69, Cl. 53-182.
Lyster, Thomas C.: *See—*
Wiesinger, Frederick C.; Lyster, Thomas C.; and Reisener, William C., Jr.,3,423,960.
Lyth, William W.: *See—*
Gruber, Thomas J.; and Lyth, William W.,3,477,546.
Lyth, William W., to Eaton Yale & Towne Inc. Pneumatic cycle rationing control. 3,432,004, 3-11-69, Cl. 184-6.
Lythgoe, Alan Lennox: *See—*
Reed, Kenneth James; and Lythgoe, Alan Lennox,3,432,376.
Lythgoe, Alan Lennox, to Letraset Limited. Process and apparatus for transferring indicia. 3,472,719, 10-14-69, Cl. 156-236.
Lythgoe, Jack R.; and Catherwood, Charles G., to Bethlehem Steel Corporation. Method of operation of a pressurized open hearth furnace roof. 3,460,935, 8-12-69, Cl. 75-60.
Lytle, Dean W.: *See—*
Lord, John B.; and Lytle, Dean W.,3,479,458.
Lytle, Elvin D., to Garrett Corporation, The. Polyphase alternator winding arrangement. 3,482,131, 12-2-69, Cl. 310-156.
Lytle, Ronald Lee: *See—*
Edwards, Herbert C.; Lytle, Ronald Lee; and Haburn, Joseph,3,483,604.
Lytle, Thomas J., to Union Carbide Corporation. Thermochemical scarfing method and apparatus. 3,455,747, 7-15-69, Cl. 148-9.5
Lytle, Thomas J., to Union Carbide Corporation. Scarfing unit. 3,477,646, 11-11-69, Cl. 239-433.
Lytle, Walter J.: *See—*
Bentley, John M.; and Lytle, Walter J.,3,458,728.
Lytton, Kenneth G.; and Wise, Cecil S. Fiber feeding apparatus. 3,421,659, 1-14-69, Cl. 222-55.
Lytton, Marion R. Flame retardant coating composition. 3,454,588, 7-8-69, Cl. 260-29.6
Lytwynka, Konstantyn. Bracket structure for pivoting ironing board. 3,455,530, 7-15-69, Cl. 248-291.
M & B Electric Co., Inc.: *See—*
Blair, Darrell J., 3,445,743.
M & B Headwear Co., Inc.: *See—*
Bigler, Sam, 3,479,668.
M & B Metal Products Company: *See—*
Brekle, Oliver R., 3,476,298.
M & J Engineering Company: *See—*
Grove, Marvin H.; and Kim, Kee W., 3,481,580.
M & J Valve Company: *See—*
Grove, Marvin H.; and Van Arsdale, Lyle R., 3,423,988.
Grove, Marvin H., 3,429,550.
Grove, Marvin H., 3,443,788.
Grove, Marvin H., 3,455,535.
Grove, Marvin H., 3,472,276.
Grove, Marvin H.; and Kim, Kee W., 3,481,580.
M & M Distributing Company, Incorporated: *See—*
Meyer, Maurice J., 3,478,768.
M & T Chemicals Inc.: *See—*
Ashby, Eugene C., 3,426,087.
Baum, Gerald A., 3,454,514.
Bedi, Ram Dev, 3,477,920.
Chessin, Hyman; Seyb, Edgar J., Jr.; and Smith, Philip J., Jr., 3,464,899.
Considine, William J.; and Reifenberg, Gerald H., 3,454,609.
Considine, William J.; and Reifenberg, Gerald H., 3,471,538.
Considine, William J.; and Reifenberg, Gerald H., 3,475,474.
Davies, Alwyn G., 3,450,701.
Gloskey, Carl R., 3,454,569.
Gottlieb, Joel B.; and Mayo, William E., 3,424,712.
Gottlieb, Joel B.; and Mayo, William E., 3,424,717.
Jongkind, Jan C., 3,462,373.
Leebrick, John R., 3,466,366.
Lowenheim, Frederick A., 3,476,551.
Mack, Gerry P., 3,484,406.
Mahlstedt, Henry; Dunn, James W.; Couch, Robert W.; and Seyb, Edgar J., Jr., 3,461,048.
McMullen, Warren H.; and Kardos, Otto, 3,474,010.
Okawara, Rokuro; and O'Hara, Mtsuaki, 3,439,010.
Passal, Frank; and Tomson, Arthur James, 3,455,794.
Passal, Frank, 3,486,989.
Seyb, Edgar J., Jr.; Chessin, Hyman; and Aoun, Fred, 3,475,294.
Wowk, Anatole, 3,480,655.
M-O Value Company Limited, The: *See—*
Baker, Basil Offor, 3,479,549.
Fraser, David Alexander; and Gowar, John, 3,458,758.
M-O Valve Company, The: *See—*
Heathcote, Vincent Albert, 3,428,859.
Ma, Carlton Y. W.; and Pfister, Stanley A., to Cincinnati Milling Machine Co., The. Hydraulic control system. 3,478,513, 11-18-69, Cl. 60-52.
Ma, Joseph T.; and Nakai, Roy T., to Ampex Corporation. Fluid lubricated magnetic tape transducer. 3,435,442, 3-25-69, Cl. 340-174.1
Ma, Peter Pu-Yuan, to United States of America, Atomic Energy Commission. Four quadrant logarithmic multiplier for time- dependent signals. 3,453,423, 7-1-69, Cl. 235-194.
Maag Gear Wheel & Machine Company Limited: *See—*
Martinaglia, Luigi, 3,473,474.
Maag, Gustav A., to Procter & Gamble Company, The. Apparatus and method for screening fibrous slurries. 3,477,571, 11-11-69, Cl. 209-250.
Maahs, Paul; Matthies, Hans-Georg; and Wenger, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for the continuous removal of volatile constituents from polyamides. 3,477,094, 11-11-69, Cl. 18-2.
Maas, Dieter: *See—*
Engelsmann, Dieter; and Maas, Dieter,3,420,152.
Engelsmann, Dieter; and Maas, Dieter,3,446,130.
Engelsmann, Dieter; Maas, Dieter; Bammesberger, Karl; and Hackenberg, Hubert,3,463,068.
Maasberg, Wolfgang, to Woma-Apparatebau Wolfgang Maasberg & Co., GmbH. Road- cleaning vehicle. 3,447,188, 6-3-69, Cl. 15-320.
Maasberg, Wolfgang; and Heinrich, Willi, to Woma-Apparatebau Wolfgang Maasberg & Co. G.m.b.H. Method of treating solid surfaces. 3,427,763, 2-18-69, Cl. 51-321.
Maasberg, Wolfgang; and Sprakel, Karl, to Woma-Apparatebau Wolfgang Maasberg & Co. G.m.b.H. Sand blasting apparatus. 3,424,386, 1-28-69, Cl. 239-427.3
Maass, Alfred R.; Smyth, Murray G., Jr.; and Ullyot, Glenn E., to Smith Kline & French Laboratories. Compositions and method for treating hypertensive patients comprising hydrochlorothiazide triamterine and reserpine. 3,449,496, 6-10-69, Cl. 424-246.
Maass, Alfred R.; Weinstock, Joseph; and Wiebelhaus, Virgil D., to Smith Kline & French Laboratories. 10-Aminopropionylphenothiazines. 3,436,392, 4-1-69, Cl. 260-243.
Maass, Gustav: *See—*
Barnard, Benjamin R.; and Maass, Gustav,3,451,357.
Maass, Gustav, to Electroacustic G.m.b.H. Echo sounding apparatus with adjustable sounding direction. 3,451,038, 6-17-69, Cl. 340-3.
Maass, Herbert W. Pitless well adapters. 3,467,181, 9-16-69, Cl. 166-85.
Maass, Herman M.: *See—*
Peterson, Robert C.; and Maass, Herman M.,3,421,850.
Maass, Joachim A., to United States of America, Army. Hall effect magnetic tape scanning device. 3,443,036, 5-6-69, Cl. 179-100.2
Maat, Hendrik J.; and Ebregt, Johannes, to Koninklijke Zwavelzuurfabrieken Voorheen Ketjen N.V. Process for the production of a finely divided, non- gelatinous silicic acid especially suitable as a filler for natural and synthetic rubber and other elastomers. 3,445,189, 5-20-69, Cl. 23-182.
Maatsch, Jurgen; Achterfeld, Horst; and Kamphaus, Hartmut, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Method of and apparatus for the automatic observation and regeneration of devices for the sampling of waste gases. 3,457,787, 7-29-69, Cl. 73-421.5
Maatsch, Jurgen; and Winkler, Dieter, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Method of automatic control and adjustment of oxygen blowing processes. 3,485,619, 12-23-69, Cl. 75-60.
Maatschappij Van Berkel's Patent N.V.: *See—*
Schierbeek, Berend B., 3,461,986.
Six, Pieter Jacob, 3,477,781.
Maatschappij voor Electrische Bedrijfsautomatisering Electrofact N.V.: *See—*
Vermeer, Willem, 3,445,366.
Maaz, Karl, to Siemens Aktiengesellschaft. Method of producing a thermoelectric device. 3,470,608, 10-7-69, Cl. 29-492.

Maaz, Karl; and Didschies, Gunther, to Siemens Aktiengesellschaft. Position sensor utilizing a hall generator. 3,473,109, 10-14-69, Cl. 324-34.
Mabbett, John C., to Crosby Research, Inc. Electrical Switch. 3,437,973, 4-8-69, Cl. 338-99.
Mabeg Maschinenbau G.m.b.H.: *See*—
Schwebel, Adolf, 3,426,963.
Schwebel, Adolf, 3,446,496.
Schwebel, Adolf, 3,477,324.
Maben, Florabel. Traveling case with ironing board feature. 3,441,112, 4-29-69, Cl. 190-11.
Maben, Florabel. Stabilized meal serving tray. 3,447,728, 6-3-69, Cl. 224-48.
Mabon, Stuart P., to Data Products Corporation. Paper drive system. 3,452,853, 7-1-69, Cl. 197-133.
Mabrey, David W.; Pratt, Ivor; Oser, William E.; and Hahn, Kenneth G., to SCM Corporation, mesne. Heat hardenable resin compositions containing hydro- xypolyoxyalkylene ester polymers and metal articles coated therewith. 3,453,345, 7-1-69, Cl. 260-834.
Mabson, Algernon A.: *See*—
Graham, John R.; and Mabson, Algernon A.,3,456,371.
Mabuchi, Takaichi. Miniature electric motor with dielectric cover plate having brush holders. 3,431,442, 3-4-69, Cl. 310-42.
Mabuchi, Takaichi, to Tokyo Kagaku Kabushikikaisha. Electric motor for diverse loads having cylindrical housing, switch, and gears. 3,450,908, 6-17-69, Cl. 310-43.
Mabuchi, Takaichi. Brush supporting means for miniature electric motors. 3,450,916, 6-17-69, Cl. 310-244.
Mabuchi, Takaichi, to Tokyo Kagaku Kabushikikaisha. Brush means for miniature motors. 3,475,635, 10-28-69, Cl. 310-238.
Mabuchi, Takaichi, to Tokyo Kagaku Kabushikikaisha. Motor-driven screw propeller device. 3,477,173, 11-11-69, Cl. 46-243.
MacAfee, James E.; Davis, Robert L.; and Hentschel, Gerald P., to Chrysler Corporation. Constant mesh starter. 3,428,034, 2-18-69, Cl. 123-179.
Macaldo Guitars, Inc.: *See*—
Mack, Donald; and di Serio, Vincent B., 3,424,048.
MacArthur, Alexander D.; and Thompson, Robert G., to United Aircraft of Canada Limited. Impeller boundary layer control device. 3,481,531, 12-2-69, Cl. 230-134.
MacArthur, Donald M., to Bell Telephone Laboratories, Incorporated. Manufacture of nickel electrodes for alkaline cells. 3,466,231, 9-9-69, Cl. 204-56.
MacArthur, Norman C., to Hercules Incorporated. Process for coating tire cord and the resulting products. 3,425,860, 2-4-69, Cl. 117-76.
Macartney, Bruce J., to Norris Industries, Inc. Sprinkler head. 3,422,904, 1-21-69, Cl. 169-39.
Mac Bee Engineering Corporation: *See*—
Hallberg, John E., 3,420,496.
Mac Belnap, Amasa: *See*—
Despain, Alvin A.; and Mac Belnap, Amasa,3,430,982.
MacBeth, Albert W., to Thiokol Chemical Corporation. Liner for solid propellant rocket motor. 3,446,018, 5-27-69, Cl. 60-39.47
MacBeth Corporation: *See*—
Blanc, Albert J.; and Levine, Harvey, 3,463,595.
Mac Bride, Hugh: *See*—
Ellis, Bernard; Feather, Peter; Mac Bride, Hugh; and Petrow, Vladimir,3,437,657.
MacCabe, Bernard S., to Dravo Corporation. Stabilized effluent trough for settling tanks of a continuous flow sewage treatment plant. 3,447,688, 6-3-69, Cl. 210-242.
Maccherone, Lawrence, to Roto American Corporation. Machine for automatically placing bags on a wicket. 3,462,026, 8-19-69, Cl. 214-8.
Macchi, Anselmo J.: *See*—
Davis, William R.; and Macchi, Anselmo J.,3,430,912.
Macchi, Eugene E. Containers. 3,462,064, 8-19-69, Cl. 229-29.
Macciomei, Walter: *See*—
Schaaf, Cecil F.; and Macciomei, Walter,3,479,824.
MacCleaster-Schwarz: *See*—
Maeder, Paul F.; and Cometta, Carl, 3,457,782.
MacCoon, Richard P. Hand engageable plastic coated part. 3,468,188, 9-23-69, Cl. 74-552.
MacCracken, Calvin D., to Calmac Manufacturing Corporation. Life-supporting and property protecting firefighting process and apparatus. 3,438,445, 4-15-69, Cl. 169-1.
Mac Cragh, Adolfo; Sanchez, Moises G.; and Smith, Jean G., to Grace, W. R., & Co. Method of preventing reversion in the preparation of ammonium phosphates by the addition of vermiculite. 3,431,097, 3-4-69, Cl. 71-43.
MacCrea, Richard S., to Marquette Corporation. Apparatus for automatically determining and setting length of charging time. 3,483,460, 12-9-69, Cl. 320-31.
Mac Curdy, William K.: *See*—
Crane, Hewitt D.; and Mac Curdy, William K.,3,453,605.
MacDermid Incorporated: *See*—
Slominski, Leo J., 3,466,208.
Mac Dermid Incorporated: *See*—
Grunwald, John J.; and Slominski, Leo J., 3,460,938.
MacDonald, Donald Francis, to International Nickel Company, Inc., The. Process of coating metal castings. 3,450,189, 6-17-69, Cl. 164-95.
MacDonald, Donald M., to Canadian International Paper Company. Cellulose-sulfur composition which resists chain shortening. 3,464,840, 9-2-69, Cl. 106-162.
MacDonald, Douglas Blake. Electrical receptacle cover. 3,434,618, 3-25-69, Cl. 220-24.2
MacDonald, Francis X.: *See*—
MacDonald, Paul M.; and MacDonald, Francis X.,3,471,112.
MacDonald, Hugh D., Jr.; and Bagwell, Richard H., to United States of America, Army. Rocket catapult. 3,447,767, 6-3-69, Cl. 244-122.
MacDonald, Hugh D., Jr.; DeStefano, Leonard A.; and DeLeo, James M., to United States of America, Army. Aircraft seat ejection system. 3,421,720, 1-14-69, Cl. 244-122.
MacDonald, John Kenneth: *See*—
Roy, Joseph Yvon; and MacDonald, John Kenneth,3,466,548.
MacDonald, John M.: *See*—
Ilnyckyj, Stephan; and MacDonald, John M.,3,444,259.
MacDonald, Paul M., to PX Industries, Inc. Shelf anchor. 3,471,111, 10-7-69, Cl. 248-235.
MacDonald, Paul M.; and MacDonald, Francis X., to PX Industries, Inc. Combination shelf support and anchor. 3,471,112, 10-7-69, Cl. 248-239.
Mac Donald, Raymore D., to Westinghouse Air Brake Company. Road widening trencher-loader unit. 3,419,975, 1-7-69, Cl. 37-8.
MacDonald, Raymore D., to Westinghouse Air Brake Company. Tow-type two-wheeled vibratory trench roller apparatus. 3,427,940, 2-18-69, Cl. 94-50.
MacDonald, Robert D., to Cardinal of Adrian, Inc. Door hinge with means for urging toward a predetermined position. 3,460,190, 8-12-69, Cl. 16-189.
MacDonald, Theodore, to United Shoe Machinery Corporation. Shoe lasting machines. 3,452,377, 7-1-69, Cl. 12-12.4
MacDonald, Ward D., to Michigan Foundry Supply Company. Metal briquette compacting method and machine therefor. 3,450,529, 6-17-69, Cl. 75-211.
Macdonald, Warren E., to Summerhayes Holdings Limited, mesne. Sealing head. 3,434,908, 3-25-69, Cl. 156-514.
MacDonald, William D.: *See*—
Sears, Vernon F.; MacDonald, William D.; and Comlossy, Frederic B.,3,441,959.
MacDonnell, Robert W.: *See*—
Panaia, Robert V.; and MacDonnell, Robert W.,3,443,849.
MacDougal, John G., to General Electric Company. Dynamoelectric machine stator core baffle. 3,461,330, 8-12-69, Cl. 310-59.
MacDougall, Ian Campbell; and Taylor, John Logan, to Allied Ironfounders Limited. Pellet dispensing apparatus. 3,422,991, 1-21-69, Cl. 221-232.
MacDowell, James E., to Suttle Corporation. Frequency selective control circuit. 3,450,844, 6-17-69, Cl. 179-84.
MacDowell, John F., to Corning Glass Works. Alpha-and betacristobalite glass-ceramic articles and methods. 3,445,252, 5-20-69, Cl. 106-39.
MacDowell, John F., to Corning Glass Works. Barium Silicate glass-ceramic body and method of making it. 3,467,534, 9-16-69, Cl. 106-39.
Mace, Arthur B., to General Motors Corporation. Illuminated position indicating device. 3,482,542, 12-9-69, Cl. 116-124.
Mace, Eric Arthur Roy, to Die Casting Machine Tools Limited. Die casting machine with means for hydraulically braking plunger retraction. 3,474,854, 10-28-69, Cl. 164-318.
Mace, Harry W., to Aerosol Techniques Incorporated. Aerosol package providing uniform foams. 3,460,714, 8-12-69, Cl. 222-4.
MacEachron, Lendrum A. Convertible stapler. 3,477,628, 11-11-69, Cl. 227-110.
Macek, Warren M., to Sperry Rand Corporation. Ring laser with means for reducing coupling to backscattered waves. 3,480,878, 11-25-69, Cl. 331-94.5
Macek, Warren M., to Sperry Rand Corporation. Ring laser having a quarter wave plate for rotating the plane of polarization of light which is reflected back into the ring from the combining optics. 3,486,130, 12-23-69, Cl. 331-94.5
Macemon, Herbert J., to General Electric Company. Constant current regulator with moving coil transformer. 3,440,519, 4-22-69, Cl. 323-6.
Mac Engineering and Equipment Company: *See*—
McAlpine, Charles H.; and McGowan, Kenneth G., 3,444,920.
Maceyka, Joseph G.; O'Kane, Roger J., Jr.; and Kothe, Hans, to Warner & Swasey Company , The. Table assembly. 3,436,998, 4-8-69, Cl. 83-412.
Mac Farland, Gordon F.: *See*—
La Flame, Frank E.; and Mac Farland, Gordon F.,3,425,355.
Macfarlane, Benedict; and Jones, Charles A., III, to Mobil Oil Corporation. Fractionating tower computer control. 3,463,725, 8-26-69, Cl. 208-358.
MacGeorge, William D., to Honeywell Inc. Photoelectric memory device in which the current through the source is indicative of the remembered signal. 3,439,171, 4-15-69, Cl. 250-205.

MacGilchrist, John: *See—*
Hackett, Clarence Bertram; Kelly, Patrick McAvoy; and MacGilchrist, John,3,453,156.
MacGlashan, William F., Jr.: *See—*
United States of America,National Aeronautics and Space Administrator, Administrator, 3,430,942.
Mac Gregor, Rob R.: *See—*
Elliott, George A.; Akin, Jerome E.; and Mac Gregor, Rob R.,3,434,937.
MacGregor, Rob R.: *See—*
Moore, William P., Jr.; and MacGregor, Rob R.,3,470,115.
Mac Gregor, Rob Roy: *See—*
Moore, William P.; and Mac Gregor, Rob Roy,3,441,375.
MacGregor, Rob Roy: *See—*
Moore, William P.; and MacGregor, Rob Roy,3,482,933.
Mac Gregor, Rob Roy: *See—*
Moore, William P.; Sierichs, William C.; and Mac Gregor, Rob Roy,3,447,901.
MacGregor, Rob Roy: *See—*
Moore, William Percy; Sierichs, William Cornell; and MacGregor, Rob Roy,3,481,702.
Mac Gregor, Warren S.: *See—*
Bennett, Clifton F.; and Mac Gregor, Warren S.,3,452,100.
Mac Gregor-Comarain: *See—*
Bain, Louis Marie Joseph Pierre; and Mege, Paul Andre, 3,463,111.
MacGregor-Comarain, Incorporated: *See—*
Beas, Urban J., 3,465,807.
Mach, Otakar. Dual purpose bag-type container. 3,425,539, 2-4-69, Cl. 206-19.5
Macha, August. Device for facilitating self-introduction of medicinal drops in eyes. 3,446,209, 5-27-69, Cl. 128-233.
Macha, Edward A., to Westinghouse Electric Corporation. Submersible motor with stator liner support. 3,444,403, 5-13-69, Cl. 310-86.
Machanian, William V.: *See—*
Schwartz, Harold O.; and Machanian, William V.,3,440,325.
Mache, Gunther: *See—*
Ritzerfeld, Gerhard; and Mache, Gunther,3,483,027.
Machek, John A., to Wagner Electric Corporation. Disc brake and anti-rattle means therefor. 3,464,523, 9-2-69, Cl. 188-73.
Machell, Greville: *See—*
Bolinger, Edgar Dare; and Machell, Greville,3,437,420.
Bolinger, Edgar Dare; Machell, Greville; and Marco, Francis W.,3,457,027.
Machell, Greville, to Deering Milliken Research Corporation. Modifying keratinic fibers with unsaturated sulfonic acids and blending fibers so modified with fibers having different dye affinity to obtain products which are differentially dyeable. 3,481,682, 12-2-69, Cl. 8-1.
Kuhn, Hans H.; and Machell, Greville,3,457,028.
Machen, James C., to Thiokol Chemical Corporation. Apparatus for cutting a variable or constant lead on a milling machine. 3,463,050, 8-26-69, Cl. 90-11.62
Machen, Valentine. Exerciser for arms and legs. 3,428,312, 2-18-69, Cl. 272-80.
Mac Henry, Carl; Weaver, John A.; and Towell, Gordon D., to Shell Oil Company. Wiped-film evaporator. 3,477,491, 11-11-69, Cl. 159-6.
Macher, Karl, to Schneider, Jos., & Co. Varifocal cinematographic for objective large-frame sizes and including a four-component forward lens group and a four-lens rear group. 3,442,573, 5-6-69, Cl. 350-176.
Macher, Karl, to Schneider, Jos. & Co. Optische Werke. Optically compensated varifocal objective. 3,451,743, 6-24-69, Cl. 350-176.
Macher, Karl, to Jirma Jos Scheider & Co. Four-component varifocal attachment for basic objective. 3,457,003, 7-22-69, Cl. 350-184.
Macher, Karl, to Schneider, Jos., & Co. Varifocal objective with four-component front lens group. 3,486,809, 12-30-69, Cl. 350-184.
Machi, Sueo: *See—*
Kagiya, Tsutomu; Machi, Sueo; Hagiwara, Miyuki; and Kise, Seiichi,3,471,463.
Machida, Hiromasa: *See—*
Ohkoshi, Akio; Machida, Hiromasa; and Fuse, Yuzo,3,462,641.
Machida, Junzo: *See—*
Kurokawa, Harutoshi; Machida, Junzo; Nishikawa, Takao; Hirata, Eiichi; and Hisaki, Hisao,3,454,348.
Machida, Masahiro: *See—*
Misaka, Yoshisuke; Yamamori, Kakunosuke; Machida, Masahiro; and Nakata, Michio,3,442,104.
Machida, Takehiko, to Zaidan Hojin Denryoku Chuo Kenkyusho. Control system for improving transient stability of A.C. system by joint use of D.C. system. 3,437,878, 4-8-69, Cl. 317-31.
Machine-O-Matic, Inc.: *See—*
Bessonny, Al I.; and Bowen, Howard, 3,432,672.
Machinefabriek en Technische Handelsonderneming M.H. van der Graaf N.V.: *See—*
Duurkoop, Hendrik Jan, 3,474,273.
Machinefabrick Heesen N.V.: *See—*
Heesen, Leonardus Bernardinus; Heesen, Theodorus Jacobus; and Heesen, Leonardus Bernardinus, Jr., 3,482,986.
Machinery and Welder Corporation: *See—*
Meyer, Gilbert F., 3,440,394.
Machinery and Welder Manufacturing Corporation: *See—*
Meyer, Gilbert F., 3,430,832.
Meyer, Gilbert F., 3,463,374.
Machleidt, Hans: *See—*
Heider, Joachim; Machleidt, Hans; and Kobinger, Walter,3,471,470.
Noll, Klaus Reinhold; Berg, Alex; Machleidt, Hans; Roethele, Werner; and Engelhardt, Gunther,3,470,190.
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid,3,470,152.
Machleidt, Hans; and Hartmann, Valentin, to Squibb, E. R., & Sons, Inc., mesne. Fluorinated cyclic keto esters. 3,435,063, 3-25-69, Cl. 260-468.
Machler, Ronald A., to Buxton, Incorporated. Pocket case with flexible money clip. 3,454,069, 7-8-69, Cl. 150-38.
Machlett Laboratories, Incorporated, The: *See—*
Bavor, Gordon F., 3,456,175.
Peyser, Leonard F., 3,448,270.
Varadi, Peter F., 3,463,978.
Machlin, Lawrence J., to Monsanto Company. Improving egg quality in poultry by orally administering androgens. 3,438,783, 4-15-69, Cl. 99-4.
Machlin, Lawrence J., to Monsanto Company. Increasing poultry egg shell thickness by orally administering adrenergic compounds. 3,445,572, 5-20-69, Cl. 424-264.
Machmer, James A., to International Business Machines Corporation. Pneumatically sampled serializer. 3,420,254, 1-7-69, Cl. 137-81.5
Macho, Helmut: *See—*
Jaeger, Rudolf; and Macho, Helmut,3,456,693.
Jager, Rudolf; Macho, Helmut; and Zwiener, Rudolf,3,430,665.
Machol, Richard E., Jr., to Bell Telephone Laboratories, Incorporated. Associative match circuit for retrieving variable-length information listings. 3,448,436, 6-3-69, Cl. 340-172.5
Macholdt, Hans: *See—*
Kletschke, Hans; and Macholdt, Hans,3,425,640.
Machon, Edward, to Davy and United Engineering Company, Limited. Manipulators. 3,429,455, 2-25-69, Cl. 214-1.
Machovina, William J. Lawn mower guard. 3,481,124, 12-2-69, Cl. 56-255.
Machovsky, Vaclav: *See—*
Plechac, Bohuslav; Velisek, Vaclav; Machovsky, Vaclav; Kadlcik, Bozetech; and Molcan, Stefan,3,429,150.
Machtig, Duane A., to Bank of California, National Association, The. Procedure for sound/image movie film synchronization. 3,429,640, 2-25-69, Cl. 352-5.
Machtig, Duane A., to Bank of California National Association, The. Converter plate. 3,452,663, 7-1-69, Cl. 95-86.
Machulda, James R.: *See—*
Lynn, Richard G., Sr.; Machulda, James R.; and Hill, John L.,3,431,858.
Macielinski, Jerzy Witold, to Birfield Engineering Limited. Flexible seals. 3,468,171, 9-23-69, Cl. 74-18.1
MacInnes, Paul A., Tool Corporation: *See—*
Gerew, Joseph T.; and Hoeft, Rudolf, 3,461,755.
Macintosh, Robert Reynolds; and Epstein, Hans Georg. Anaesthetic administering apparatus with simultaneously variable inlet, outlet and by-pass passages. 3,483,866, 12-16-69, Cl. 128-188.
MacIntyre, Duncan; and Robertson, Ian MacPherson, to National Research Development Corporation. Soil shaping rotor. 3,483,929, 12-16-69, Cl. 172-63.
Macintyre, Ernest C., Jr.; and Hansen, Robert B., to Motorola, Inc. Method and apparatus for adjusting purity. 3,421,043, 1-7-69, Cl. 315-13.
Macintyre, Ernest C., Jr.: *See—*
Hansen, Robert B.; and Macintyre, Ernest C., Jr.,3,465,095.
Maciulaitis, Vytautus K.; Svabek, John E., Jr.; and Schrock, Donald C., Sr., to Crane Co. Adjustable lavatory. 3,473,173, 10-21-69, Cl. 4-170.
Mack, Clifford R. Method and apparatus for packaging articles of varying size serially. 3,468,097, 9-23-69, Cl. 53-37.
Mack, Donald E., to Xerox Corporation. Dicode decoder translating dicode or three-level digital data signal into two-level form. 3,461,390, 8-12-69, Cl. 328-119.
Mack, Donald E., to Xerox Corporation. Dicode decoder. 3,479,597, 11-18-69, Cl. 325-321.
Mack, Donald E.: *See—*
Townsend, Stephen E.; and Mack, Donald E.,3,462,695.
Mack, Donald; and di Serio, Vincent B., to Macaldo Guitars, Inc. Guitar kit. 3,424,048, 1-28-69, Cl. 84-290.
Mack, Edgar O.: *See—*
Adams, Whitney R.; and Mack, Edgar O.,3,458,338.

Mack, Ernst, to Goldschmidt, Th., A.G. Process for the continuous production of aqueous ammonium thiosulfate solutions. 3,473,891, 10-21-69, Cl. 23-115.
Mack, Gerry P., to M & T Chemicals Inc., mesne. Sulfur organotin compounds and compositions containing the same. 3,484,406, 12-16-69, Cl. 260-45.75
Mack, Hans: *See—*
Mlacker, Siegfried; Mack, Hans; and Karl, Lorenz,3,426,535.
Mack, John C.: *See—*
Baier, Robert J.; and Mack, John C.,3,420,072.
Mack, John E., to Hymatic Engineering Company Limited, The. Acceleration-responsive valve assemblies. 3,430,642, 3-4-69, Cl. 137-39.
Mack, Joseph E. Drawing board attachment. 3,450,071, 6-17-69, Cl. 108-50.
Mack, Jules A., to Superior Continental Corporation, mesne. Cable clamp. 3,471,110, 10-7-69, Cl. 248-74.
Mack, Jules A., to Superior Continental Corporation. Handhole for electrical apparatus adapted for easy knockdown and reassembly. 3,476,867, 11-4-69, Cl. 174-37.
Mack, Kenneth J., to General Motors Corporation. Method of bonding glass fiber reinforced plastic panels to other materials. 3,431,157, 3-4-69, Cl. 156-82.
Mack, Maurice L. Abductor exercising therapeutical appliance. 3,430,955, 3-4-69, Cl. 272-80.
Mack, Robert J.: *See—*
Fischer, John L.; and Mack, Robert J.,3,438,371.
Mack, Thomas J.: *See—*
Courtot, Louis B.; and Mack, Thomas J.,3,442,537.
Mack Truck, Inc.: *See—*
Hawk, Raymond A., Jr., 3,434,708.
Mack Trucks, Inc.: *See—*
Carlson, Paul E.; and Race, Keith W., 3,474,888.
Fischer, Alvin M.; and Warmkessel, Harry J., 3,442,502.
Pelizzoni, Winton J.; Ucko, Bernard; and Pekar, Frank J., Jr., 3,453,995.
Rath, Harry B.; and Kasaczun, Leo F., 3,456,437.
Mack, Zdenek, to Tesla, narodni podnik. Bridge type demodulator having diodes adjustably operated. 3,436,684, 4-1-69, Cl. 332-47.
Mack, Zdenek, to Tesla, narodni podnik. Bridge type cross demodulator having capacitive reactance branches. 3,436,685, 4-1-69, Cl. 332-47.
Mackal, Henry H.: *See—*
Bogossian, Armen; and Mackal, Henry H.,3,429,330.
Mackal, Henry H.; and Bogossian, Armen. Inflation valve having helically wound leaf spring members for producing rotation of the valve. 3,429,338, 2-25-69, Cl. 137-543.23
MacKallor, DeWitt C., Jr., to United States of America, Navy, mesne. Brushless motor/alternator. 3,484,635, 12-16-69, Cl. 310-266.
MacKay, Ian Norton, to Canadian General Electric Company Limited. Nuclear fuel handling system. 3,428,523, 2-18-69, Cl. 176-32.
MacKay, Patrick W.: *See—*
Celada, Juan; Villarreal, David; and MacKay, Patrick W.,3,423,201.
Celada, Juan; Villarreal, David; Reyna, Armando; and Mackay, Patrick W.,3,467,368.
MacKay, Robert H., to Lincoln Manufacturing Company, Inc. Proofing cabinet. 3,456,598, 7-22-69, Cl. 107-7.
Mackay, Stanley: *See—*
Theodosopoulos, James; and Mackay, Stanley,3,450,565.
MacKellar, Donald G.; Blumbergs, John H.; and von Falkenstei, Rainer, to FMC Corporation. Method of producing organic peroxy acids. 3,462,480, 8-19-69, Cl. 260-502.
Mac Kellar, Donald G.; Blumbergs, John H.; and von Falkenstein, Rainer, to FMC Corporation. Production of organic peroxy acids. 3,485,869, 12-23-69, Cl. 260-502.
MacKellar, Donald; and Joynson, Reuben E., Jr., to General Electric Company. Tin-lead-tin layer arrangement to improve adherence of photoresist and substrate. 3,450,534, 6-17-69, Cl. 96-36.2
Mac Kendrick, Robert G., to Procter & Gamble Company, The. Method of making a porous roll. 3,453,712, 7-8-69, Cl. 29-148.4
Mac Kendrick, Robert G., to Procter & Gamble Company, The. Method of forming display package. 3,485,007, 12-23-69, Cl. 53-29.
MacKenzie, Alexander K.; MacKenzie, Lloyd D.; and Pottinger, George C., to Torlo International Limited. Centrifugal cleaning of paint brushes and the like. 3,467,400, 9-16-69, Cl. 279-1.
MacKenzie, Burton T., Jr.: *See—*
Zysk, Stephen; and MacKenzie, Burton T., Jr.,3,433,891.
MacKenzie, Edward T., to Hughes Aircraft Company. Storage mesh ring assembly support. 3,421,038, 1-7-69, Cl. 313-286.
Mac Kenzie, James S.: *See—*
Fox, William B.; Mac Kenzie, James S.; and Vanderkooi, Nicholas, Jr.,3,428,540.
MacKenzie, John Douglas; and Sleighter, George E., to PPG Industries, Inc. Heterogeneous glass. 3,485,645, 12-23-69, Cl. 106-47.
MacKenzie, Kenneth W.: *See—*
Hirs, Gene; MacKenzie, Kenneth W.; and Stein, Alfred H.,3,468,778.
MacKenzie, Lloyd D.: *See—*
MacKenzie, Alexander K.; MacKenzie, Lloyd D.; and Pottinger, George C.,3,467,400.
MacKenzie, Murdo James, Jr.; and Salkind, Alvin J., to ESB Incorporated. Gas depressor additives for iron electrodes. 3,484,291, 12-16-69, Cl. 136-25.
Mackenzie, Neil J.; and Neathery, William D., to Bell Aerospace Corporation. Rotor mounting. 3,457,997, 7-29-69, Cl. 170-160.58
Mackenzie, Robert A., to Cyril Bath Company, The. Stretch wrapping fixture and combination thereof with drawing dies and press. 3,452,573, 7-1-69, Cl. 72-296.
Mackenzie, Robert A., to Cyril Bath Company, The. Stretch-draw multi-press machine. 3,452,574, 7-1-69, Cl. 72-297.
MacKenzie, Robert P.: *See—*
Coleman, Charles H., Jr.; and MacKenzie, Robert P.,3,428,745.
MacKenzie, Thomas E.; and Sinclair, Donald B., to General Radio Company. Reflection-coefficient measuring apparatus. 3,479,587, 11-18-69, Cl. 324-58.
Mackey, Bruce Alexander, Jr.: *See—*
Mackey, Bruce Alexander; and Mackey, Bruce Alexander, Jr.,3,443,459.
Mackey, Bruce Alexander; and Mackey, Bruce Alexander, Jr. Drill. 3,443,459, 5-13-69, Cl. 77-70.
Mackey, Donald G.; and Rychlewski, Thaddeus V., to Sylvania Electric Products, Inc. White balance control for color television receiver. 3,457,362, 7-22-69, Cl. 178-5.4
Mackey, E Scudder: *See—*
Eiseman, Fred S., Jr.; Schenck, Leslie M.; and Mackey, E Scudder,3,442,654.
Mackey, Elgin W. Fluid dispensing container having pour and vent spouts. 3,459,344, 8-5-69, Cl. 222-479.
Mackey, Eugene L.: *See—*
Krepp, John D.; and Mackey, Eugene L.,3,447,695.
MacKey, Robert J.: *See—*
Martin, John L.; MacKey, Robert J.; and Bower, Warren H.,3,431,011.
Mackey, Robert W.: *See—*
Swalheim, Donald A.; and Mackey, Robert W.,3,445,351.
Swalheim, Donald A.; and Mackey, Robert W.,3,468,769.
Mackey, Robert W.; and Morgan, William J., to Owens-Illinois, Inc., mesne. Electrostatic method for decorating glass and vitreous enamels for use therein. 3,437,504, 4-8-69, Cl. 117-17.5
Mackey, Thomas S.: *See—*
Case, Forrest N.; Mackey, Thomas S.; and McFarland, Clyde E.,3,431,328.
Mackey, Walter, to Forsyth, Ray E. Trim button. 3,449,802, 6-17-69, Cl. 24-113.
Mackie, Charles G.; and Rahr, Gordon J., to Brav, Milton, mesne. Drinking fountain attachment. 3,438,577, 4-15-69, Cl. 239-25.
Mackie, James, & Sons Limited: *See—*
Mackie, John K. P., 3,430,296.
Mackie, John K. P., 3,482,795.
Mackie, John Kay Pringle, 3,449,901.
Mackie, John K. P., to Mackie, James, & Sons Limited. Oscillating drive for doffer comb. 3,430,296, 3-4-69, Cl. 19-106.
Mackie, John K. P., to Mackie, James, & Sons Limited. Winding apparatus. 3,482,795, 12-9-69, Cl. 242-54.4
Mackie, John Kay Pringle, to Mackie, James, & Sons Limited. Method and apparatus for winding yarn. 3,449,901, 6-17-69, Cl. 57-71.
Mackie, William A.: *See—*
Hawke, Eugene E.; and Mackie, William A.,3,462,021.
Mackie, William L.: *See—*
Busenkell, Charles C.; and Mackie, William L.,3,474,474.
Mackie, William L., to United States of America, Army. Corrosion prevention device and method. 3,470,787, 10-7-69, Cl. 85-53.
Mackiewicz, Czeslaw, to Hubbell, Harvey, Incorporated. Electrical wiring device with positive locking cover. 3,444,345, 5-13-69, Cl. 200-168.
Mackin, John G., Jr.: *See—*
Gibson, Robert G.; Johnson, Delbert B.; Mackin, John G., Jr.; and Straws, James C.,3,486,343.
MacKinnon, Ian Archie: *See—*
van der Lely, Cornelis; and MacKinnon, Ian Archie,3,461,578.
Mackinnon, John: *See—*
Hopkins, Don J.; Munley, William J., Jr.; and Mackinnon, John,3,454,479.
Mackintosh, Alexander W. P. Machines for imparting twist to yarns. 3,451,206, 6-24-69, Cl. 57-34.
Mackintosh, Ian William, to North American Philips Company, Inc. Geiger-Muller tube with window and internal helix. 3,430,086, 2-25-69, Cl. 313-93.
MacKintosh, William D., to Sinclair Research, Inc. Mobile marine drilling apparatus and method of use. 3,456,447, 7-22-69, Cl. 61-46.5

Mackiw, Vladimir Nicolaus: *See—*
Meddings, Basil; Weizenbach, Bauke; Evans, David John Ivor; and Mackiw, Vladimir Nicolaus,3,469,967.
Mackley, Jack, to British Petroleum Company Limited, The. Fixed-bed catalytic operations. 3,469,950, 9-30-69, Cl. 23-288.
Macklin, Arnold: *See—*
MacLeod, Donald B.; and Macklin, Arnold,3,450,832.
Macklin, Wilmot F. Material and method for treating concrete. 3,437,611, 4-8-69, Cl. 260-3.3
Macko Edward: *See—*
Loev, Bernard; and Macko Edward,3,462,535.
Macko, Richard, to Symco Enterprises, Inc. Control apparatus for automatic warehouse system. 3,486,092, 12-23-69, Cl. 318-18.
Mackrle, Svatopluk; Mackrle, Vladimir; and Dracka, Oldrich, to Ceskoslovenska akademie ved. Pressurized device for water treatment. 3,429,442, 2-25-69, Cl. 210-202.
Mackrle, Vladimir: *See—*
Mackrle, Svatopluk; Mackrle, Vladimir; and Dracka, Oldrich,3,429,442.
Macks, Elmer Fred. Dynamoelectric device with speed change mechanism. 3,477,315, 11-11-69, Cl. 74-798.
Macks, Fred: *See—*
Gold, Harold; and Macks, Fred,3,477,335.
MacLaren, Donald D., to Esso Research and Engineering Company. Retorting of oil shale. 3,475,319, 10-28-69, Cl. 208-11.
MacLauchlan, William. Device for donning stockings without knee flexure. 3,452,907, 7-1-69, Cl. 223-111.
Maclay, Holmes B. Stock feed loader for feeding bunks. 3,465,725, 9-9-69, Cl. 119-52.
Maclay, William N., to Sinclair-Koppers Company. Suspension polymerization of vinyl aromatic monomers. 3,470,146, 9-30-69, Cl. 260-93.5
Mac Lean, Alexander F., to Celanese Corporation. Catalytic oxidations with ruthenium. 3,479,403, 11-18-69, Cl. 260-530.
MacLean, Alexander F.; and Stautzenberger, Adin L., to Celanese Corporation. Transaddition reactions of vinyl compounds. 3,462,504, 8-19-69, Cl. 260-659.
MacLean, Alexander F.; and Stautzenberger, Adin L., to Celanese Corporation. Olefin oxidation process. 3,479,262, 11-18-69, Cl. 204-80.
Mac Lean, Alexander F.; and Stautzenberger, Adin L., to Celanese Corporation. Process for oxidizing olefins to carbonyl compounds. 3,459,644, 8-5-69, Cl. 204-80.
MacLean, Alexander F.: *See—*
Hobbs, Charles C., Jr.; and MacLean, Alexander F.,3,470,219.
Mac Lean, Archibald, Jr.; Maskell, Richard M.; Sill, Thomas E.; and Wagner, William F., to Container Corporation of America. Plastic bag with sampling pouch. 3,463,357, 8-26-69, Cl. 222-94.
Maclean, Clive: *See—*
Downs, Arthur; and Maclean, Clive,3,422,245.
MacLean, Robert Sisterson; Mc Clintock, Andrew Lindsay Muir; and Sharp, Royds, to National Research Development Corporation. Digital measuring systems. 3,465,570, 9-9-69, Cl. 73-37.5
MacLean-Fogg Lock Co.: *See—*
Pendleton,Charles Brian, 3,438,340.
MacLean-Fogg Lock Nut Co.: *See—*
Couillais, Yvan A., 3,422,944.
Grube, William L., 3,462,137.
Mac Lean-Fogg Lock Nut Co.: *See—*
Schwiebert, Phillip D.; and Griffith, Paul H., 3,454,260.
MacLeavy, Ronald Edward; and Sheppard, Chester Stephen, to Pennwalt Corporation. Alkali and alkaline earth metallic salts of azoformic acids. 3,474,085, 10-21-69, Cl. 260-192.
MacLennan, John R., to Honeywell Inc. Manually resettable safety valve. 3,461,894, 8-19-69, Cl. 137-66.
Mac Leod, David E., to Carrier Corporation. Room air-conditioning unit with extensible filler panels. 3,460,458, 8-12-69, Cl. 98-94.
Mac Leod, Donald A.; and Maddock, George P., to American Telephone and Telegraph Company. Call distributing circuit utilizing sequential activation of station ringers. 3,478,174, 11-11-69, Cl. 179-18.
MacLeod, Donald B.; and Macklin, Arnold, to Ampex Corporation. Electronic editing system for helical scan video tape recorder. 3,450,832, 6-17-69, Cl. 178-6.6
MacLeod, Leslie D. Ion exchange material and method of making same. 3,468,636, 9-23-69, Cl. 23-253.
Mac Leod, Norman A. Apparatus for resilient locomotion. 3,444,631, 5-20-69, Cl. 36-7.8
Mac Leod, Norman A. Exercising apparatus. 3,462,113, 8-19-69, Cl. 248-387.
MacLeod, Norman Jamieson, to Plasser, Franz Bahnbaumaschienen. Railway track lifting and tamping machines. 3,433,175, 3-18-69, Cl. 104-7.
Maclevy, Monty: *See—*
Schawalder, Albert, 3,465,750.
Mac Martin, Malcolm Pearson; and Kusters, Norbert Leo, to Canadian Patents and Development Limited. Magnetic flux modulator for direct current measurement. 3,484,691, 12-16-69, Cl. 324-117.
MacMeekin, Robert A.: *See—*
Ryan, John W.; MacMeekin, Robert A.; and Meggs, Daniel Henry,3,475,854.
MacMillan Bloedel Limited: *See—*
Bacon, Merle H., 3,437,545.
Hallonquist, Earland G.; and Honnige, Manfred M., 3,428,477.
Hjort, Jorgen; and Hach, Vladimir, 3,485,855.
MacMillan, Charles W., to Bear Manufacturing Company. Automotive wheel alining apparatus. 3,443,318, 5-13-69, Cl. 33-203.18
MacMillan, Donald M., deceased0 (by MacMillan, Kenneth T., executor). Sectional tire mold. 3,429,005, 2-25-69, Cl. 18-18.
MacMillan, Kenneth T.: *See—*
MacMillan, Donald M.,3,429,005.
MacMillan, Melvin J.; and Ely, Charles M., to Diamond Shamrock Corporation. Method of detecting fat soluble vitamins in animal feed. 3,438,781, 4-15-69, Cl. 99-2.
MacNab, Adrian J.; and Treseder, Richard S., to Shell Oil Company. Corrosion prevention. 3,432,254, 3-11-69, Cl. 21-2.5
Macnab, Robert Marshall: *See—*
Anstey, Roger Hilary; and Macnab, Robert Marshall,3,422,003.
Macnair, John Miles, to Foseco Technik Limited Nechells. Testing of foundry sand. 3,457,769, 7-29-69, Cl. 73-15.
MacNairn, John S.; La Brecque, Raymond E.; and Nehra, Samuel A. Structure for dental prosthesis. 3,481,772, 12-2-69, Cl. 117-129.
MacNalley, Mary Albeus. Laboratory slide tray and sorting method. 3,464,564, 9-2-69, Cl. 211-10.
Mac Neille, Stephen M., to American Optical Company, mesne. Bistable laser apparatus. 3,470,491, 9-30-69, Cl. 331-94.5
Mac Nutt, William J.: *See—*
Dougherty, Thomas F., Jr.; Mac Nutt, William J.; and McKelvey, William J.,3,476,980.
Macoicz, Edward L., to General Electric Company. Removable article supporting device for automatic dishwasher rack. 3,451,556, 6-24-69, Cl. 211-41.
Macoicz, Edward L., to General Electric Company. Electric water heater circuit means. 3,467,814, 9-16-69, Cl. 219-330.
Macoid Industries, Inc.: *See—*
Poris, Harry; and Hendrie, George S., 3,470,290.
Macomber, Incorporated: *See—*
Fink, Homer Russell, Jr.; and Scott, Victor P., 3,444,664.
Macomber, James Keith, to Consolidated Lithographing Corporation. Label feed and cutting means. 3,435,717, 4-1-69, Cl. 83-176.
Macon, Charles E.; Barton, Robert S.; Quantz, Paul A.; and Shimabukuro, George T., to Burroughs Corporation. Multi-program data processor. 3,487,375, 12-30-69, Cl. 340-172.5
Macon, Jack F., to Burlington Industries, Inc. Automatic separator for separating articles from tubular fabrics. 3,448,594, 6-10-69, Cl. 66-147.
Macondray, Stewart A.; and Edwards, Alyce C. Charge of paper clips. 3,429,431, 2-25-69, Cl. 206-56.
Macovski, Albert: *See—*
Frohbach, Hugh F.; and Macovski, Albert,3,457,363.
Frohbach, Hugh F.; and Macovski, Albert,3,474,191.
Macovski, Albert, to Stanford Research Institute. Electrostatic printing head. 3,434,157, 3-18-69, Cl. 346-74.
Macovski, Albert, to Stanford Research Institute. Data processing system for signals obtained from a video scanner. 3,462,547, 8-19-69, Cl. 178-6.
Macovski, Albert, to Southern Pacific Company. Line encoding facsimile bandwidth reduction system. 3,470,314, 9-30-69, Cl. 178-6.
Macovski, Albert, to Stanford Research Institute. Light-addressed matrix printer. 3,471,861, 10-7-69, Cl. 346-74.
MacPeek, Donald L.: *See—*
Marcus, Erich; and MacPeek, Donald L.,3,420,785.
Marcus, Erich; and MacPeek, Donald L.,3,431,309.
Mac Peek, Donald L.: *See—*
Marcus, Erich; Mac Peek, Donald L.; and Tinsley, Samuel W.,3,455,966.
Macphail, Alexander C. B.; and Wright, Neville E., to Shell Oil Company. Ester lubricants. 3,483,122, 12-9-69, Cl. 252-46.6
MacPhail, Alexander C. B.: *See—*
Waight, Francis H.; and MacPhail, Alexander C. B.,3,429,813.
MacPhail, David D., Sr., to Monsanto Company. Sound barrier structure and method of making same. 3,459,274, 8-5-69, Cl. 181-33.
Mac Phee, John, to Hittman Associates, Inc., mesne. Pulsing nuclear reactor. 3,466,225, 9-9-69, Cl. 176-62.
MacPhee, Paul A.; Wanielista, Walter; and Jeschke, Richard R., to Robertson Photo-Mechanix, Inc. Contact screen application to vacuum film holder. 3,433,567, 3-18-69, Cl. 355-76.
MacPherson, Alister G. Method and means for dispensing cable-pulling lubricant. 3,438,461, 4-15-69, Cl. 184-1.
MacPherson, Robert E.: *See—*
Staub, Jennings M.; and MacPherson, Robert E.,3,463,026.
Mac Pherson, William F.: *See—*
Bauer, Erich O.; Fox, Paul E.; and Mac Pherson, William F.,3,433,858.
MacPherson, William F., to Bell Telephone Laboratories, Incorporated. Method of manufacturing insulated wires. 3,459,851, 8-5-69, Cl. 264-40.

MacQueen, Ewan C.: *See—*
Clappier, Robert R.; and MacQueen, Ewan C.,3,456,469.
Mac Quoid, George E.: *See—*
Evenson, Robert B., deceased; Mac Quoid, George E.; and Evenson, Lucille B.; executrix,3,484,973.
Macriss, Robert A.; Weil, Sanford A.; and Rush, William F., to American Gas Association, Inc., mesne. Absorption refrigeration system containing solutions of monoethylamine with thiocyanates. 3,458,445, 7-29-69, Cl. 252-69.
Macriss, Robert A.: *See—*
Chi, Chang W.; and Macriss, Robert A.,3,446,031.
MacRobbie, Robert, to Richmond Screw Anchor Co., Inc. Cable connectors and related methods and structures. 3,435,512, 4-1-69, Cl. 29-517.
Macrosonics Corporation: *See—*
Boucher, Raymond Marcel Gut; and Tobin, Carlton D., 3,469,785.
Mac Sorley, Olin L.: *See—*
Allen, Richard G.; Kurtz, Clark; Mac Sorley, Olin L.; Spencer, Dana R.; and Stetler, Wesley C.,3,474,239.
MacSorley, Olin L.: *See—*
Cooper, Jamexs; King, Lewis E.; and MacSorley, Olin L.,3,478,321.
MacSorley, Olin L.; Spencer, Dana R.; and Timm, Joe F., to International Business Machines Corporation. Uniform shift division. 3,484,592, 12-16-69, Cl. 235-164.
Mactaggart, Donald J., to Sperry Rand Canada Limited. Digital-to-resolver converter apparatus. 3,471,851, 10-7-69, Cl. 340-347.
Macton Machinery Company, Inc.: *See—*
Johnson, David Bruce; Moro, Daniel; and Cristy, Nicholas G., 3,420,187.
Mac Tools, Inc.: *See—*
Bowers, Charles W., 3,466,956.
Macura, Heinrich: *See—*
Siebel, Joseph; and Macura, Heinrich,3,455,719.
Macurdy, William B., to Bell Telephone Laboratories, Incorporated. Scanning circuit for scanning all of a group of points if one point has a change of state. 3,428,947, 2-18-69, Cl. 340-147.
Mac Valves, Inc.: *See—*
Ludwig, Walter D., 3,456,689.
Ludwig, Walter D., 3,469,461.
Ludwig, Walter D., 3,469,600.
Ludwig, Walter D., 3,469,604.
MacWhyte Company: *See—*
Johansen, Gunnar, 3,472,121.
Leach, Arthur, 3,475,897.
MacWilliams, Dalton C.; and Hansen, Robert D., to Dow Chemical Company, The. Preparation of new tungstic acids. 3,451,764, 6-24-69, Cl. 23-51.
Macy, Christian D., deceased (by Macy, Laura G., administratrix); and Butler, Harold B., to Hormel, Geo. A., & Company. Process and apparatus for coagulating and drying blood. 3,431,118, 3-4-69, Cl. 99-199.
Macy, James B.: *See—*
Satterthwaite, James Glenn; and Macy, James B.,3,470,843.
Macy, James C., to Thrust, Incorporated. Electromagnetic actuating device. 3,467,927, 9-16-69, Cl. 335-296.
Macy, James C., to Thrust, Incorporated, mesne. Electromagnetic actuating device. 3,486,147, 12-23-69, Cl. 335-264.
Macy, Robert L., Jr., to Kellogg Company. Dry food products and process for same. 3,462,281, 8-19-69, Cl. 99-199.
Macy, Valentine E., Jr.: *See—*
Allen, Earle F., 3,466,686.
Mac Zura, George: *See—*
Gitzen, Walter H.; and Mac Zura, George,3,432,313.
Madan AD: *See—*
Buu-Hoi, Nguyen P.; Lambelin, Georges; Lepoivre, Constan; Gillet, Claude; and Thiriaux, Jacques, 3,479,396.
Madarasz, Geza: *See—*
Pungor, Erno; Havas, Jeno; Toth, Klara; and Madarasz, Geza,3,446,726.
Maddalena, Joseph R.: *See—*
Tarneja, Krishan S.; Rossi, Vito A.; and Maddalena, Joseph R.,3,457,427.
Maddalozzo, Raymond J., to International Harvester Company. Fuel delivery valve assembly and method. 3,477,458, 11-11-69, Cl. 137-327.
Madden, Andrew Sidney, to Seetru Limited. Relief valves. 3,444,888, 5-20-69, Cl. 137-542.
Madden, Ernest Francis. Profile transferring device. 3,419,965, 1-7-69, Cl. 33-175.
Madden, James E. Pipe and pipe section assembly and disassembly tool. 3,483,608, 12-16-69, Cl. 29-237.
Madden, Richard E., to Whirlpool Corporation. Dishwasher apparatus. 3,457,929, 7-29-69, Cl. 134-95.
Madden, Richard J.: *See—*
Vercellotti, Leonard C.; and Madden, Richard J.,3,440,613.
Madden, Sidney M. Pipe assembly tool. 3,483,607, 12-16-69, Cl. 29-237.
Maddock, Edward G., to Cities Service Tankers Corporation. Method for disposal of crude oil residues. 3,450,086, 6-17-69, Cl. 114-74.
Maddock, George P.: *See—*
Mac Leod, Donald A.; and Maddock, George P.,3,478,174.
Maddock, Maldwyn J.: *See—*
Long, Raymond H.; and Maddock, Maldwyn J.,3,453,076.
Maddock, Owen Richard; and Cross, Frederick George, to Cross and Jackson Limited. Skirt for plenum-type air cushion vehicle. 3,483,939, 12-16-69, Cl. 180-127.
Maddocks, Herbert F. Heat exchangers. 3,435,894, 4-1-69, Cl. 165-167.
Maddox, Charles F., to Ford Motor Company. Collapsible steering column. 3,477,307, 11-11-69, Cl. 74-492.
Maddox, De Wayne: *See—*
Bracken, Robert C.; and Maddox, De Wayne,3,444,052.
Maddox, Howard M.; and Poldervaart, Arie W., to North American Rockwell Corporation. Computer operation recovery after interference. 3,465,300, 9-2-69, Cl. 340-172.5
Maddux, Forrest E., Jr.; and Greeno, John R. Mattress. 3,419,920, 1-7-69, Cl. 5-91.
Maddux, William R.: *See—*
McGahee, Welbourne D., 3,466,672.
Madeley, Milton H., Sr. Wire line retrievable borehole tool assembly. 3,474,860, 10-28-69, Cl. 166-158.
Madeley, Paul E.: *See—*
Witt, William W.; and Madeley, Paul E.,3,465,295.
Madelung, Gero Otto: *See—*
Kopp, Gerhard; and Madelung, Gero Otto,3,443,758.
Madelung, Gero Otto, to Entwicklungsring Sud GmbH. Take-off and land platform for vertical take-off and landing planes. 3,436,036, 4-1-69, Cl. 244-114.
Madelung, Gero Otto, to Entwicklungsring Sud GmbH. Heat exchanger for aircraft air conditioning systems. 3,475,906, 11-4-69, Cl. 60-39.07
Mader, George E., Jr.: *See—*
Beason, Elmer C.; and Mader, George E., Jr.,3,450,587.
Welty, Richard O.; and Mader, George E., Jr.,3,439,622.
Mader, Helmut: *See—*
Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Mader, Helmut,3,467,518.
Seidel, Bernhard; Mader, Helmut; Danhauser, Justus; and Bartl, Herbert,3,467,523.
Mader, James M., to Leeds & Northrup Company. Synchronized modulator-demodulator system. 3,437,943, 4-8-69, Cl. 330-10.
Mader, Lyle W., to Control Data Corporation. Line tracking reading machine having means to positionally normalize the character-video signals. 3,432,673, 3-11-69, Cl. 250-219.
Mader, Siegfried R.; Nowick, Arthur S.; and Widmer, Hans, to International Business Machines Corporation. Amorphous alloys and process therefor. 3,427,154, 2-11-69, Cl. 75-134.
Madeson, Austen: *See—*
Hurtig, Carl R.; and Madeson, Austen,3,473,121.
Madewell, George R.: *See—*
Barger, John J.; and Madewell, George R.,3,482,076.
Madey, Jesse M.: *See—*
Johnson, John C., Jr.; Madey, Jesse M.; Moyer, Xopher W.; and McCarthy, Dennis K.,3,460,397.
Madey, Marion J., to Poster Products Inc. Table structure. 3,468,592, 9-23-69, Cl. 312-140.3
Madge, Evelyn W., to Dunlop Company Limited, The. Method of reducing adhesion. 3,483,062, 12-9-69, Cl. 156-401.
Madge, Joseph G., to Ford Motor Company. Multiple position day-night rear view mirror assembly. 3,451,746, 6-24-69, Cl. 350-281.
Madge, Joseph G., to Ford Motor Company. Method of cutting glass. 3,486,673, 12-30-69, Cl. 225-2.
Madigan, Basil, to Goodyear Aerospace Corporation. Film drive mechanism. 3,454,800, 7-8-69, Cl. 310-94.
Mading, James E., to Cutler-Hammer, Inc. Electrical switch having a lost motion operator assembly. 3,436,497, 4-1-69, Cl. 200-16.
Mading, James E.; and Waldorf, Joseph F., to Cutler-Hammer, Inc. Compact electrical contact block with electrically isolated bridging contacts. 3,448,226, 6-3-69, Cl. 200-16.
Madison Industries, Inc.: *See—*
Koppelmann, Eldo K., 3,477,319.
Madison, Norman L.: *See—*
Miller, Donald L.; Madison, Norman L.; and Rausch, Douglas A.,3,423,334.
Madison, Robert P.: *See—*
Bieler, Barrie H.; and Madison, Robert P.,3,464,550.
Madl, Joseph, Jr. Damper-provided air-passing floor structure. 3,473,461, 10-21-69, Cl. 98-31.
Madlener, Paul; and Pecksen, Otto, to Industrie-Werke Karlsruhe Aktiengesellschaft. Jumping mine. 3,434,418, 3-25-69, Cl. 102-8.
Madlener, Paul; and Pecksen, Otto, to Industrie-Werke Karlsruhe Aktiengesellschaft. Device for igniting explosive charges. 3,440,962, 4-29-69, Cl. 102-70.2
Madley, Jack R.: *See—*
Jenner, Harold; and Madley, Jack R.,3,421,616.

Madley, Jack Robert. Apparatus for detecting the presence of foreign bodies in transparent containers. 3,425,547, 2-4-69, Cl. 209-111.7

Madoian, Susanna Gukasovna; and Zubkov, Alexandr Mikhailovich. Semiconductor device having intermetallic compounds providing stable parameter VS. time characteristics. 3,484,657, 12-16-69, Cl. 317-234.

Madonia, Anthony F. Roll packing apparatus. 3,470,674, 10-7-69, Cl. 53-157.

Mador, Irving L.; and Scheben, John A., to National Distillers and Chemical Corporation. Reaction of allylic halides in the vapor phase with carbon monoxide to form 3-enoyl halides. 3,423,456, 1-21-69, Cl. 260-544.

Mador, Irving L.; and Scheben, John A., to National Distillers and Chemical Corporation. Preparation of aroyl halides. 3,452,090, 6-24-69, Cl. 260-544.

Mador, Irving L.; and Scheben, John A., to National Distillers and Chemical Corporation. Preparation of haloacetyl halides. 3,454,632, 7-8-69, Cl. 260-544.

Mador, Irving L.: *See*—
Lum, David W.; and Mador, Irving L.,3,480,558.
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S.,3,451,981.
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S.,3,451,989.
Scheben, John A.; and Mador, Irving L.,3,468,947.
Scheben, John A.; and Mador, Irving L.,3,480,632.
Scheben, John A.; Mador, Irving L.; and Orchin, Milton,3,450,730.

Madre, James A. Fish holder. 3,447,200, 6-3-69, Cl. 17-70.

Madre, James A. Link applying and removing device. 3,462,944, 8-26-69, Cl. 59-7.

Madrelle, Alexandre, to Societe Anonyme dite: Vallourec, Usines a Tubes de Lorraine-Escaut et Vallourec Reunies. Triple-sealing pipe joint. 3,467,413, 9-16-69, Cl. 285-332.2

Madrid, Robert W., to Xerox Corporation. Electrostatic separation of round and nonround particles. 3,477,568, 11-11-69, Cl. 209-127.

Madsen, Anker Erik: *See*—
Valbjorn, Knud V.; Larsen, Bendt Wegge; and Madsen, Anker Erik,3,459,364.

Madsen, Ditlev Peder: *See*—
Bajcar, Miles S.; Madsen, Ditlev Peder; and Sondej, Vincent S.,3,482,508.

Madsen, Elmer W.; and Leenhouts, Albert C., to Superior Electric Company, The. Digitally programmed servo control system. 3,466,515, 9-9-69, Cl. 318-18.

Madsen, John Robert: *See*—
DeCloux, Richard J.; and Madsen, John Robert,3,441,740.

Madsen, R Glen, to Astrodata, Inc. Phase detector for phase locked loop frequency detector, employing current switching apparatus. 3,469,198, 9-23-69, Cl. 329-50.

Madsen, Rud F., to Aktieselskabet de Danske Sukkerfabrikker. Method and apparatus for determining the purity of a flowing solution or mixture. 3,451,403, 6-24-69, Cl. 137-5.

Madson, Walter Louis. Ski slope grooming device. 3,478,827, 11-18-69, Cl. 172-379.

Madurski, Joseph P.: *See*—
Taplin, Lael B.; Datwyler, Walter F., Jr.; Thompson, Thomas E.; and Madurski, Joseph P.,3,457,938.

Maecker, Kurt: *See*—
Wollenhaupt, Jakob, 3,455,181.
Wollenhaupt, Jakob, 3,460,403.

Maecker, Kurt. Fully automatic electric control for chip-removing machine tools. 3,460,434, 8-12-69, Cl. 90-13.4

Maeda, Hisanki, heir of said Maeda, Hisao: *See*—
Maeda, Hisao; and Maeda, Hisanki, heir of said Maeda, Hisao, deceased,3,432,825.

Maeda, Hisao. Magnetic memory device with grooved substrate containing bit drive lines. 3,460,113, 8-5-69, Cl. 340-174.

Maeda, Hisao; and Maeda, Hisanki, heir of said Maeda, Hisao, deceased. Matrix memory device with conductors of which some have magnetic thin film coating. 3,432,825, 3-11-69, Cl. 340-174.

Maeda, Hisao; and Matsushita, Akira, to Toko Kabushiki Kaisha. Woven type, Semifixed memory device. 3,425,042, 1-28-69, Cl. 340-174.

Maeda, Hisao; and Matsushita, Akira, to Toko Kabushiki Kaisha. Woven information-storage matrix. 3,449,732, 6-10-69, Cl. 340-174.

Maeda, Kaoru: *See*—
Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao,3,434,277.

Maeda, Katsunosuke: *See*—
Nakashima, Hirotaka; Maeda, Katsunosuke; Fukunaga, Togo; Suzuki, Satoru; and Matsuoka, Kenichiro,3,468,121.

Maeda, Kazuo, to Fujitsu Limited. Process of epitaxial deposition on one side of a substrate with simultaneous vapor etching of the opposite side. 3,428,500, 2-18-69, Cl. 148-175.

Maeda, Kazuo; and Sato, Junzi, to Fujitsu Limited. Method of growing semiconductor crystals. 3,484,302, 12-16-69, Cl. 148-1.5

Maeda, Keisuke, to Minolta Camera Kabushiki Kaisha. Apparatus enabling a camera to operate with different lengths and thicknesses of film. 3,426,665, 2-11-69, Cl. 95-31.

Maeda, Masayoshi: *See*—
Huang, Ching Yun; and Maeda, Masayoshi,3,441,519.

Maeda, Sachio; and Saito, Nagao, to Mitsubishi Denki Kabushiki Kaisha. Electrolytic machining and grinding apparatus with graphite electrode. 3,461,056, 8-12-69, Cl. 204-224.

Maeda, Seiichiro: *See*—
Ito, Teruhiko; Mitsui, Naoshi; Maeda, Seiichiro; and Sawata, Kiyoshi,3,444,102.

Maeda, Shoji: *See*—
Banno, Hisao; Maeda, Shoji; Tsunooka, Tsutomu; and Sakai, Masao,3,464,924.

Maeda, Takashi: *See*—
Suminoto, Shinzaburo; Tokuyama, Kanji; Fujimoto, Nanabu; and Maeda, Takashi,3,455,925.

Maeda, Taneo: *See*—
Fukui, Kenichi; Kagiya, Tsutomu; Narisawa, Shizuo; Maeda, Taneo; and Kobata, Mikio,3,476,712.

Maeda, Tetsuo. Gearbox change lever for bicycles. 3,478,617, 11-18-69, Cl. 74-489.

Maeda, Tetsuo. Gear shift lever. 3,481,217, 12-2-69, Cl. 74-489.

Maeda, Toyoo: *See*—
Akita, Yoshio; Maeda, Toyoo; and Yada, Toshio,3,464,175.
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko,3,455,913.

Maeda, Yo: *See*—
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo,3,428,555.

Maeda, Yukio: *See*—
Hamada, Yoshitsugu; Imai, Teruhiro; Maeda, Yukio; and Tsuchii, Kimitaka,3,485,219.

Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao, to Fuji Keiki Kabushiki Kaisha. Process for producing crimped yarns. 3,434,277, 3-25-69, Cl. 57-157.

Maeda, Yutaka: *See*—
Fujita, Shiro; and Maeda, Yutaka,3,449,898.

Maeder, Arthur: *See*—
Nachbur, Hermann; Berger, Alfred; Guth, Christian; and Maeder, Arthur,3,423,369.
Nachbur, Hermann; Werner, Robert; and Maeder, Arthur,3,449,302.
Schaefer, Paul; Mayer, Fritz; and Maeder, Arthur,3,459,716.

Maeder, Erwin: *See*—
Guglielmetti, Leonardo; Maeder, Erwin; Liechti, Peter; and Siegrist, Adolf Emil,3,449,330.

Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil, to Ciba Limited. Azole compounds. 3,429,877, 2-25-69, Cl. 260-240.

Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil, to Ciba Limited. Process for the production of optically brightened synthetic materials. 3,455,837, 7-15-69, Cl. 252-301.2

Maeder, Erwin; and Siegrist, Adolf Emil, to Ciba Limited. Oxdiazole compounds. 3,444,180, 5-13-69, Cl. 260-307.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo,3,444,179.

Maeder, Helmut; and Seidel, Bernhard, to Agfa-Gevaert Aktiengesellschaft. Light-sensitive layers for graphic arts purposes using polyvinyl benzyl N-(4-vinylpyridinium) salts. 3,462,274, 8-19-69, Cl. 96-115.

Maeder, Paul F.; and Cometta, Carl, to MacCleaster-Schwarz, a division of William M. Pearson Travel Agency, Inc., mesne. Turbine type fluid flow measuring device. 3,457,782, 7-29-69, Cl. 73-187.

Maehr, Richard J.: *See*—
O'Connor, Charles A., 3,463,036.

Maekawa, Haruki: *See*—
Kawabata, Yasuro; Maekawa, Haruki; Watanabe, Masamoto; and Tsuda, Yoshizo,3,485,804.

Maekawa, Tatsuo; Nakajima, Nobuo; and Kagawa, Masaru, to Mitsubishi Atomic Power Industries, Inc. Process of treating stainless steels. 3,473,973, 10-21-69, Cl. 148-12.3

Maenz, Herbert: *See*—
Huebner, Guenther; and Maenz, Herbert,3,484,849.

Maerov, Sidney B., to Du Pont de Nemours, E. I., and Company. Process for imparting improved dye-lightfastness to basic dyeable polyester structures. 3,467,482, 9-16-69, Cl. 8-4.

Maerz, Michael O.: *See*—
Houck, William E.; Maerz, Michael O.; Oliver, Burton L.; and Silsbee, David L.,3,473,114.

Maerz Ofenbau, AG: *See*—
Bartu, Franz, 3,447,920.

Maes, Michel E., to Rocket Research Corporation. Valveless microrocket systems. 3,471,106, 10-7-69, Cl. 244-1.

Maessen, Jan Theodor Marie Francois: *See—*
Toet, Hans Jacques; Maessen, Jan Theodor Marie Francois; and van der Linde, Leendert Maarten,3,461,085.
Maestrelli, Gino. Method and apparatus for the automatic cleansing of the filter for a solvent particularly in dry- cleaning plants. 3,438,497, 4-15-69, Cl. 210-79.
Maestrello, Lucio, to Boeing Company, The. Control of sound-emitting vibration resulting from turbulent air flow across an aircraft skin panel. 3,472,472, 10-14-69, Cl. 244-117.
Maffii, Giulio: *See—*
Testa, Emilio; Bellasio, Elvio; and Maffii, Giulio,3,449,359.
Magagnin, Luigi Ciligot: *See—*
LoMonaco, Sergio; Melacini, Paolo; Borsini, Giancarlo; Magagnin, Luigi Ciligot; and Visani, Francesco,3,476,727.
Magagnoli, Remo: *See—*
Coraluppi, Enzo; and Magagnoli, Remo,3,486,894.
Magagnoli, Remo; and Coraluppi, Enzo, to Ferrania, S.p.A. Process for the preparation of color images using 2-ureido phenolic couplers. 3,446,622, 5-27-69, Cl. 96-55.
Magalhaes, Frank M.: *See—*
Josenhans, James G.; Magalhaes, Frank M.; and Schlosser, Wolfgang O.,3,460,055.
Magat, Eugene Edward; and Tanner, David, to Du Pont de Nemours, E. I., and Company. Cellulosic textile fibers bearing grafted N-methylol. 3,423,163, 1-21-69, Cl. 8-116.3
Magat, Eugene Edward; and Tanner, David, to Du Pont de Nemours, E. I., and Company. Graft copolymers of amine compounds on polyamide and polyester substrates. 3,424,820, 1-28-69, Cl. 260-857.
Magat, Eugene E.; and Sharkey, William H., to Du Pont de Nemours, E. I., and Company. Static resistant filament. 3,475,898, 11 4-69, Cl. 57-140.
Magda, Joseph A.; and Schwab, Bruce B., to McDonnell Douglas Corporation, mesne. Electric gating system to eliminate contact interference. 3,448,621, 6-10-69, Cl. 73-517.
Magda, Robert J.; and Giordano, Anthony, Jr., to Auto-Lawn, Inc. Roller cart for lawn treatment. 3,446,165, 5-27-69, Cl. 111-11.
Magee, Ellington M.: *See—*
Eisenberg, Benjamin; and Magee, Ellington M.,3,427,152.
Magee, Ellington M.; and Eisenberg, Benjamin, to Esso Research and Engineering Company. Continuous process for the production of magnesium. 3,441,402, 4-29-69, Cl. 75-10.
Magee, Eugene J. Portable scaffold. 3,438,459, 4-15-69, Cl. 182-119.
Magee, John E. Rail fastener. 3,420,337, 017/69, Cl. 187-85.
Magee, John E.: *See—*
Wittenwyler, Clifford V.; and Magee, John E.,3,447,955.
Magee, John S., Jr.; and Briggs, Warren S., to Grace, W. R., & Co. Method of preparing petroleum cracking catalysts. 3,433,747, 3-18-69, Cl. 252-433.
Magee, John S., Jr.; and Briggs, Warren S., to Grace, W. R., & Co. Process for forming silica-alumina hydrocarbon conversion catalysts. 3,433,748, 3-18-69, Cl. 252-453.
Magee, John S., Jr.: *See—*
Surland, George J.; and Magee, John S., Jr.,3,434,976.
Magee, Richard Joseph, to American Cyanamid Company. 0,0,0'-Tetraloweralkyl 0,0' dithio di-*p*- phenylene phosphorothioates. 3,467,734, 9-16-69, Cl. 260-930.
Magee, Richard Joseph: *See—*
Lutz, Albert William; and Magee, Richard Joseph,3,480,643.
Magee, Thomas A., to Diamond Alkali Company. Formals of norbornane-2,7- diols and copolymers thereof with trioxane. 3,442,864, 5-6-69, Cl. 260-67.
Mageli, Orville Leonard: *See—*
Bafford, Richard Anthony; and Mageli, Orville Leonard,3,478,080.
Mageli, Orville Leonard; and Bafford, Richard Anthony, to Wallace & Tiernan, Inc. Tris-peroxides from 1,3,5,-triisopropylbenzene. 3,420,891, 1-7-69, Cl. 260-610.
Mageli, Orville Leonard; and Bolton, Douglas John, to Wallace & Tiernan Inc. Esters of 1,1,3,3-tetramethylbutyl hydroperoxide. 3,446,831, 5-27-69, Cl. 260-453.
Harrison, James B.; Mageli, Orville L.; and Lowell, Arthur I.,3,420,807.
Mager, Kurt: *See—*
v. Sturm, Ferdinand; and Mager, Kurt,3,454,364.
Mager, Theodor: *See—*
Wolf, Karlheinz; Haus, Arthur; Mager, Theodor; Hornle, Reinhold; and Bechlars, Franz,3,458,804.
Magerlein, Barney J.: *See—*
Birkenmeyer, Robert D.; Kagan, Fred; Magerlein, Barney J.; and Schneider, William P.,3,461,207.
Magerlein, Barney J., to Upjohn Company, The. Lincomycin alkylsulfamates. 3,428,732, 2-18-69, Cl. 424-181.
Magerlein, Barney J., to Upjohn Company, The. N-Substituted analogs of lincomycin. 3,459,734, 8-5-69, Cl. 260-210.
Magers, Joseph I., 1/2 to Carr, Ellis R. Tie-down unit. 3,455,573, 7-15-69, Cl. 280-179.
Magers, William M.: *See—*
Betzold, Edward R.; and Magers, William M.,3,453,929.
Maget, Henri J. R.; and Roethlein, Richard J., to General Electric Company. Rotatable hydrophobic electrode and fuel cell therewith. 3,425,874, 2-4-69, Cl. 136-86.
Maget, Henri J. R.: *See—*
Lyons, Ernest H., Jr.; Maget, Henri J. R.; and Roethlein, Richard J.,3,461,044.
Oster, Eugene A.; Miekka, Richard G.; and Maget, Henri J. R.,3,423,228.
Magg, Alfred; and Schreiner, Friedrich, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Drive for motor vehicles. 3,470,766, 10-7-69, Cl. 74-665.
Maggart, Ronald C.; Rothenberg, Don H.; and Heinrich, Raymond L., to Esso Research and Engineering Company. Plasticizer compositions consisting of polynuclear aromatic compounds. 3,433,661, 3-18-69, Cl. 106-316.
Maggio, Albert C.: *See—*
Roselius, Charles F.; Pelikan, George A.; and Maggio, Albert C.,3,472,124.
Maggiulli, Cataldo A.; and Paine, Raymond E., to Eastman Kodak Company. Process for preparing 1-aryl-5- chloro-1 H- tetrazole. 3,437,665, 4-8-69, Cl. 260-308.
Magguilli, Vincent Anthony. Hair teasing device. 3,421,522, 1-14-69, Cl. 132-11.
Magi, Mario: *See—*
Gigante, Pietro; Antoniu, Demetrio; Ganzina, Fabrizio; Magi, Mario; and Serino, Enrico,3,467,705.
Magid, Louis: *See—*
Cavalli, Arnold; and Magid, Louis,3,446,891.
Cavalli, Arnold; and Magid, Louis,3,446,899.
Magid, Louis, to Hoffmann-La Roche Inc. Stabilization of vitamin C tablets. 3,446,894, 5-27-69, Cl. 424-176.
Magid, Louis, to Hoffmann-La Roche Inc. Smaller high potency compressed tablets of ascorbic acid. 3,453,368, 7-1-69, Cl. 424-280.
Magida, Nathan H.; Lopasic, Alexander Z.; and Wolfner, William, to Thermosen, Incorporated. Electromagnetic reed relay having low noise charateristics. 3,425,008, 1-28-69, Cl. 335-93.
Magill, Malcolm E.; and Slobbe, Walter Wentworth, to Sylvania Electric Products, Inc. Electric Products, Inc. Aluminizing process. 3,473,942, 10-21-69, Cl. 117-8.
Magin, Adam. Collapsible cabin boat. 3,419,926, 1-7-69, Cl. 9-2.
Maginot, Pierre Henri Jean: *See—*
Fabri, Jean; Friberg, Jean Marie Eugene; Maginot, Pierre Henri Jean; Merigoux, Jean Marie; and Siestrunck, Raymond,3,447,740.
Maglaughlin, Edward P.: *See—*
O'Connor, Patrick J.; and Maglaughlin, Edward P.,3,449,436.
Magna Visual Inc.: *See—*
Singer, Robert L., 3,447,949.
Magnacraft Manufacturing Company: *See—*
Morrow, John H.; and Mednick, Charles, 3,420,386.
Morrow, John H.; and Mednick, Charles, 3,480,503.
Magnaflux Corporation: *See—*
Borucki, James S.; and Borrows, Paul Kenneth, 3,485,758.
Flaherty, John J.; and Rosauer, Peter J., 3,439,530.
Flaherty, John J.; Clark, John W.; and Rosauer, Peter J., 3,448,606.
Flaherty, John J.; and O'Connor, Donald T., 3,480,002.
Gewartowski, Richard S.; Makowski, Frank T.; and Deibel, Joseph L., 3,483,739.
Gruetzmacher, Ralph W.; Mc Clurg, Glenn O.; and O'Connor, Donald T., 3,465,242.
John J.; and Soble, Richard M., 3,430,134.
Lenahan, James L.; and Colbert, John R., 3,427,481.
Lenahan, James L., 3,482,122.
Lorenzi, Donald E.; Groble, Kenneth K.; and Retsky, Michael W., 3,450,985.
Lorenzi, Donald E., 3,480,855.
Mitchell, Hugh A.; and Grandia, Willem A.M., 3,474,664.
Nerwin, Henry N., Jr.; and Flaherty, John J., 3,475,681.
O'Connor, Donald T., 3,485,088.
Prine, David W., 3,482,160.
Puidak, Heino, 3,449,661.
Schroeder, Kenneth W.; and Isaacson, Bruce G., 3,449,663.
Wendt, John A.; and Borris, Ralph J., 3,462,616.
Magnani, Seeley L.; Fodroci, Michael P.; and Flake, George H., to Bendix Corporation, The. Control apparatus with pivotal lever for trans- mitting motion. 3,486,731, 12-30-69, Cl. 251-58.
Magnas, Jean Pierre: *See—*
Lacroix, Roger; and Magnas, Jean Pierre,3,486,978.
Magnasync Moviola: *See—*
Green, James W., 3,469,038.
Magnatex Limited: *See—*
Charlton, Arthur T., 3,453,680.
Charlton, Arthur Thomas, 3,445,842.
Magnavox Company, The: *See—*
Buenger, George L.; and Erickson, Robert J., 3,471,701.
Cahn, Charles R., 3,475,558.
Chipman, Jack R., 3,422,303.
Crane, Paul J.; and Reese, Glenn A., 3,449,522.

Crane, Paul J., 3,467,772.
Grieninger, Jean W., 3,449,656.
Griffiths, Henry W., 3,474,431.
Kent, George; and Waring, Richard J., 3,457,366.
Kent, George A.; and Waring, Richard J., 3,444,425.
Kent, George A.; and Waring, Richard J., 3,449,514.
Kent, George A.; and Waring, Richard J., 3,461,233.
Kent, George A.; and Waring, Richard J., 3,485,947.
Klug, Herbert H., 3,425,015.
Mayle, Louis F.; and Sanders, Robert W., 3,478,270.
Nelson, Alfred M.; and Griffiths, Henry W., 3,474,428.
Reese, Glenn A.; and Pearson, Gustavus B., 3,469,027.
Reese, Glenn A.; and Pearson, Gustavus B., 3,475,553.
Ricketts, Luther W., Jr.; Stalcup, Robert E.; and Erickson, Robert J., 3,449,711.
Ricketts, Luther W., Jr.; Buenger, George L.; and Erickson, Robert J., 3,471,838.
Wilson, Loren R., 3,431,833.

Magne, Frank C.: *See—*
Skau, Evald L.; Mod, Robert R.; and Magne, Frank C.,3,420,837.
Skau, Evld L.; Mod, Robert R.; and Magne, Frank C.,3,431,269.

Magneet Rijwielen-en Motorenfabriek N.V.: *See—*
Oskam, Willem; and van Dijk, Jacobus Wilhelmus, 3,427,043.

Magner, Lowell Max; and Punderson, John Oliver, to Du Pont de Nemours, E. I., and Company. Blends of fluorinated polymers. 3,484,503, 12-16-69, Cl. 260-900.

Magner, Richard; and Geppert, Albrecht, to Licentia Patent-Verwaltungs-G.m.b.H. Semiconductor rectifier unit. 3,476,985, 11-4-69, Cl. 317-234.

Magnesita S.A.: *See—*
Cardoso, Jose Joaquim, 3,479,960.

Magnesium Elektron Limited: *See—*
Halliwell, Walter; and Pitts, Frank, 3,430,610.
Higgins, William Frederick, 3,470,077.
Ziegler, Wolfram H.O.; and Fisher, Philip A., 3,469,974.

Magnetfabrik Bonn G.m.b.H. vorm. Gewerkschaft Windhorst: *See—*
Heimke, Gunther, 3,428,498.
Heimke, Gunther, 3,434,892.
Steingroever, Erich, 3,428,370.
Steingroever, Erich, 3,447,842.

Magnetic Metals Company: *See—*
Finke, Gunter B., 3,483,498.

Magnetics, Inc.: *See—*
Cohen, Philip, 3,436,802.
Covert, Paul W., 3,430,142.
Eyberger, Harry, 3,430,172.
Warren, James A., 3,456,133.

Magneto Dynamics, Inc.: *See—*
Hershler, Abe, 3,439,899.

Magneville, Pierre: *See—*
Cholet, Jacques; Fail, Jean Pierre; Grau, Gerard; and Magneville, Pierre,3,444,953.
Duconge, Claude; and Magneville, Pierre,3,439,577.

Magnier, Pierre: *See—*
Accary, Andre; Magnier, Pierre; and Marchal, Michel,3,428,717.

Magnier, Roger, to Regie Nationale des Usines Renault. Power and transmission units for automotive vehicles or the like. 3,474,876, 10-28-69, Cl. 180-54.

Magnus, Oswin: *See—*
Licser, Ernst; Steisslinger, Kurt; and Magnus, Oswin,3,470,801.

Magnuski, Henry, to Motorola, Inc. Delta modulator with uniform quantizing steps. 3,453,562, 7-1-69, Cl. 332-11.

Magnuski, Henry, to Motorola, Inc. Speech bandwidth reduction by sampling 1/N cycles, storing the samples, and reading the samples out at 1/N the sampling rate. 3,467,783, 9-16-69, Cl. 179-15.555

Magnuski, Henry; and Steel, Francis R., Jr., to Motorola, Inc. Time division multiplex system with prearranged carrier frequency shifts. 3,471,646, 10-7-69, Cl. 179-15.

Magnuson, Leo D., to Bendix Corporation, The. High altitude rate of climb indicator. 3,456,506, 7-22-69, Cl. 73-179.

Magnuson, Raymond A.; and Brorson, Donald L., to Vogel-Peterson Co. Unit wall closet. 3,433,549, 3-18-69, Cl. 312-245.

Magnuson, Robert: *See—*
Crawford, Lynn D., 3,422,954.
Daugherty, Ralph K., 3,437,116.
Simmons, Patrick M. L., 3,455,444.
Simmons, Patrick M. L., 3,467,254.

Magnuson, Roy M.: *See—*
Daugherty, Ralph K., 3,437,116.
Simmons, Patrick M. L., 3,455,444.

Magnussen, Roald S.: *See—*
Adelson, Leonard; Magnussen, Roald S.; and McNeary, Matthew W.,3,456,171.

Magnusson, Gustaf. Curtain rail assembly. 3,424,225, 1-28-69, Cl. 160-345.

Magnusson, Karl G., to Sundstrand Corporation, mesne. Oil burner valve. 3,446,231, 5-27-69, Cl. 137-108.

Magol, Byram Jamshed, to Foster Wheeler Corporation. Corrugated furnace seal. 3,440,978, 4-29-69, Cl. 110-165.

Magoon, Eugene F.: *See—*
Cannell, Lawrence; Magoon, Eugene F.; and Raley, John H.,3,424,815.

Magoon, Eugene F.; Cannell, Lawrence G.; and Raley, John H., to Shell Oil Company. Olefin oligomerization. 3,483,269, 12-9-69, Cl. 260-683.15

Magor Railcar Division, Fruehauf Corporation: *See—*
Tearpock, Daniel J., 3,484,815.

Magrath, Richard A., to Baird-Atomic, Inc. Variable monochromator with cylindrical interference wedge. 3,457,002, 7-22-69, Cl. 350-166.

Magrini, Ugo. Apparatus for the measurement of low velocities of flow of liquids with weak electrical conductance. 3,466,927, 9-16-69, Cl. 73-194.

Magruder, William R.; Sixt, Marty E.; and Steiner Roger H., to American Can Company, mesne. Apparatus for feeding and trimming tandem blown containers. 3,448,648, 6-10-69, Cl. 83-566.

Maguet-Martin, Francoise; Osgan, Maseh; and Teyssie, Pilippe, to Institut Francais du Petrole, des Carburants et Lubrifiants. Polymerization of 1,2 or 1,3-epoxides with a catalyst comprised of trivalent metal carboxylate. 3,427,260, 2-11-69, Cl. 260-2.

Maguire, Addison Charles, to Rolls-Royce Limited. Exhaust nozzles for jet engines. 3,448,583, 6-10-69, Cl. 60-271.

Maguire, David E. Apparatus an method for directly measuring capacitance and dissipation factor of capacitors. 3,458,803, 7-29-69, Cl. 324-60.

Maguire, Hugh T., to United States of America, Army, and/or Federal Aviation Administration, Administrator of the. Weather outline contour generator. 3,447,153, 5-27-69, Cl. 343-5.

Maguire, John: *See—*
Frost, Richard H.; and Maguire, John,3,423,825.

Maguire, Keith Dean, to Pennsalt Chemicals Corporation. Preparation of inorganic polymers. 3,444,103, 5-13-69, Cl. 260-2.

Maguire, Mary Helen, to University of Sydney, The. Adenosine derivatives and therapeutic preparations containing same. 3,471,471, 10-7-69, Cl. 260-211.5

Magyar, John J.; and Zollinger, Richard J., to Whittaker Corporation, mesne. Proximity sensitive on-off oscillator switch circuit. 3,469,204, 9-23-69, Cl. 331-65.

Magyar, Joseph J., to General Motors Corporation. Vehicle body compartment latch and lock. 3,429,153, 2-25-69, Cl. 70-84.

Mahaffey, Joseph H., Jr.: *See—*
Tucker, Guy H.; and Mahaffey, Joseph H., Jr.,3,443,068.

Mahaffy & Harder Engineering Company: *See—*
Hamilton, Joel A.; Faro, Anthony E., Jr.; and Leitner, Joseph, 3,438,175.
Harder, John R., 3,474,591.
Mahaffy, Reid A.; and Hamilton, Joel A., 3,467,244.

Mahaffy, Reid A.; and Hamilton, Joel A., to Mahaffy & Harder Engineering Company. Evacuated package with semirigid shell and flexible closure. 3,467,244, 9-16-69, Cl. 206-45.34

Mahall, Karl, to Henkel & Cie. G.m.b.H. Process of cleaning soiled poultry feathers. 3,475,112, 10-28-69, Cl. 8-94.10

Mahan, James C.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,220.

Mahassel, Albert A., and Nylin, G. Kendall: *See—*
Meranto, Samuel R., 3,424,150.

Maher, Charles Anthony, Jr. United Aircraft Corporation Pneumatic air temperature control system. 3,441,213, 4-29-69, Cl. 236-13.

Maher, Edith M. Animated greeting card. 3,486,270, 12-30-69, Cl. 46-36.

Maher, George C., to United States of America, Agriculture. Starch polyethyleniminothiourethane additives for paper. 3,436,305, 4-1-69, Cl. 162-175.

Maher, Joseph L.: *See—*
Francis, Alex W., Jr.; and Maher, Joseph L.,3,441,499.
Francis, Alex W., Jr.; and Maher, Joseph L.,3,453,205.

Maher, Joseph L., to Crest Engineering, Inc. Method and means for disposal of waste gas. 3,468,238, 9-23-69, Cl. 98-1.

Maher, Philip K.: *See—*
Baker, Richard W.; Ciapetta, Frank G.; Wilson, Charles P., Jr.; and Maher, Philip K.,3,425,956.
McDaniel, Carl Vance; and Maher, Philip Kenerick,3,449,070.
McDaniel, Carl Vance; Maher, Philip Kenerick; and Pilato, Joseph Michael,3,472,617.

Maher, Philip K.; Baker, Richard W.; and McDaniel, Carl V., to Grace, W. R., & Co. Hydrothermal activation of a silica- alumina cracking catalyst at a high pH. 3,423,332, 1-21-69, Cl. 252-455.

Mahieu, Claude; Lepeintre, Marcel; and Monjou, Jacques, to Commissariat a l'Energie Atomique. Electrolytic reference cell. 3,466,238, 9-9-69, Cl. 204-195.

Mahin, William E., to Kaiser Industries Corporation. Process for continuously casting oxidizable metals. 3,467,167, 9-16-69, Cl. 164-56.

Mahle, Joachim. Floor panel plate. 3,443,349, 5-13-69, Cl. 52-309.

Mahle Komm.-Ges.: *See—*
Reussner, Horst, 3,459,432.
Stauss, Siegfried, 3,471,914.

Mahler, Edward, to Holophane Company, Inc. Semiconductor ballast circuit for gas discharge lamps. 3,486,069, 12-23-69, Cl. 315-194.
Mahler, Friedrich: *See—*
Furkert, Herbert; Mahler, Friedrich; Peters, Heinrich; and Stauffer, Adolf,3,443,896.
Mahler, Gert: *See—*
Cziptschirsch, Kurt; and Mahler, Gert,3,487,444.
Herr, Gerhard; and Mahler, Gert,3,448,553.
Mahler, Hugo: *See—*
Jones, Ralph E.; and Mahler, Hugo,3,452,457.
Mahler, Leo, to Oerlikon-Buhrle Holding Ltd. Device on a lathe, particularly for thread-cutting. 3,473,426, 10-21-69, Cl. 82-5.
Mahlman, Bert H., to Hercules Incorporated. Blends of modified and unmodified polypropylene. 3,483,276, 12-9-69, Cl. 260-897.
Mahlmann, James P.; Migdol, Norman R.; and Kaleda, William W., to General Foods Corporation. Producing aromatic soluble coffee. 3,421,901, 1-14-69, Cl. 99-7.
Mahlmann, James P.: *See—*
White, William V.; Mahlmann, James P.; and Stolz, Robert P.,3,476,566.
Clinton, William P.; Mahlmann, James; and Ponzoni, George B.,3,438,784.
Mahlmann, Werner: *See—*
Bucher, Erich; Osterreicher, Wolfgang; and Mahlmann, Werner,3,426,520.
Mahlo, Edwin K., to Monsanto Company. Method of polymerizing vinyl monomers. 3,451,985, 6-24-69, Cl. 260-92.8
Mahloch, Carl Peter: *See—*
Lund, Walter W.; and Mahloch, Carl Peter,3,452,786.
Mahlstedt, Henry; Dunn, James W.; Couch, Robert W.; and Seyb, Edgar J., Jr., to M & T Chemicals Inc. Method of electrodepositing duplex micro- crack chromium. 3,461,048, 8-12-69, Cl. 204-41.
Mahncke, William H., to Kliklok Corporation. Method and device for packaging pouches with soft contents in folding boxes. 3,453,800, 7-8-69, Cl. 53-29.
Mahncke, William H., to Kliklok Corporation. Method and device for bonding the sealing flap of a hinge-cover folding box. 3,465,490, 9-9-69, Cl. 53-38.
Mahnken, George R. Envelope attaching apparatus and method. 3,465,411, 9-9-69, Cl. 29-407.
Mahnken, Henry, to Millmaster Onyx Corporation. Process for producing amine oxides. 3,432,555, 3-11-69, Cl. 260-583.
Mahnken, Henry, to Millmaster Onyx Corporation. Process for producing amine oxides. 3,463,817, 8-26-69, Cl. 260-583.
Mahnken, Walter J., to Honeywell Inc. Flash intensifier apparatus. 3,444,432, 5-13-69, Cl. 315-227.
Mahnken, Walter J.; Niccore, Fred W.; and Tyler, Tommy N., to Honeywell Inc. Auto record length circuit. 3,458,096, 7-29-69, Cl. 226-43.
Maholick, Andrew W.: *See—*
Oeters, Harold R.; and Maholick, Andrew W.,3,478,325.
Mahon, Henry I.; and Oldershaw, Charles F., to Dow Chemical Company, The. Permeability separatory apparatus and processes of making and using the same. 3,455,460, 7-15-69, Cl. 210-321.
Mahon, Henry I.: *See—*
McLain, Earl A.; and Mahon, Henry I.,3,423,491.
Mahon, John H., to Calgon Corporation. Method of cooking fowl. 3,462,278, 8-19-69, Cl. 99-107.
Mahon, John V., to Container Corporation of America. Reclosable folding carton. 3,438,566, 4-15-69, Cl. 229-51.
Mahon, John V.; and Parker, George H., to Container Corporation of America. Bottle carrier. 3,456,841, 7-22-69, Cl. 220-113.
Mahon, John V.; Smith, William P.; and Whipperman, Ronald L., to Container Corporation of America. Reducible flip-top carton. 3,486,682, 12-30-69, Cl. 229-51.
Mahon, Joseph Peter; and Mishko, Bohdan, to Otis Elevator Company. Terminal block. 3,474,383, 10-21-69, Cl. 339-33.
Mahon, R. C., Company, The: *See—*
Janecek, Louis J., 3,457,629.
Wichman, Kendall L., 3,422,825.
Mahoney, Frank D. Hydraulic fluid delayed action toggle switch actuator. 3,484,090, 12-16-69, Cl. 267-1.
Mahoney, James D., to Mobay Chemical Company. Resealable container closure and a process for its manufacture. 3,442,411, 5-6-69, Cl. 215-40.
Mahoney, Kenneth J. Projectile return apparatus. 3,427,026, 2-11-69, Cl. 273-1.5
Mahoney, Lee Robert, to Ford Motor Company. Separation of anthracene-phenanthrene mixtures. 3,458,538, 7-29-69, Cl. 260-385.
Mahoney, Michael, to SCH Corporation. Game apparatus for playing three-dimensional chess and tic-tac-toe. 3,464,701, 9-2-69, Cl. 273-131.
Mahoney, Ralph P., to Beloit Corporation. Air-knife coater. 3,424,126, 1-28-69, Cl. 118-63.
Mahoney, Robert J.; and Tucker, Richard L., to Barber-Colman Company. Machine for unloading tray supported articles. 3,456,811, 7-22-69, Cl. 214-1.
Mahoney, Robert J.: *See—*
Trost, Wayne C.; and Mahoney, Robert J.,3,479,988.
Mahoney, Thomas P.: *See—*
Grossman, Abraham, 3,429,075.
La Torre, Jack, 3,467,157.
Lott, Chancy M., 3,440,781.
Moore, William, 3,447,258.
Mahoney, William J., to American Machine & Foundry Company. Linear select magnetic memory system and controls therefor. 3,421,152, 1-7-69, Cl. 340-174.
Mahood, Robert John: *See—*
Erwin, Edson Lockwood; Field, Joseph Patrick; and Mahood, Robert John,3,441,677.
Mahr, Malcolm. Carrier containers. 3,447,737, 6-3-69, Cl. 229-54.
Mahringer, Karlheinz; and Langlitz, Karlheinz, to Demag Aktiengesellschaft. Tilting drive for metallurgical vessels such as steel mill converters. 3,459,068, 8-5-69, Cl. 74-665.
Mahrt, Gunter: *See—*
Goldammer, Georg; and Mahrt, Gunter,3,443,285.
Mahy, Raymond Marcel; and Tyler, William J., to Canada Iron Foundries Limited. Hydraulic rock drill. 3,470,970, 10-7-69, Cl. 173-105.
Maida Development Company: *See—*
Maida, Francis X., 3,439,396.
Maida, Francis X., to Maida Development Company. Feed through capacitor ring. 3,439,396, 4-22-69, Cl. 29-25.42
Maide, Orland M., to United States Steel Corporation. Exhaust hood for oxygen steelmaking converter. 3,482,827, 12-9-69, Cl. 266-36.
Maidenform, Inc.: *See—*
Heyman, Louis; Netkin, Bernard; and Butvinik, David, 3,467,107.
Moskowitz, Murray, 3,463,369.
Maidl, Virgil M. Camper with extensible canopy. 3,487,449, 12-30-69, Cl. 296-23.
Maier, Alfred E.: *See—*
Yorgin, Nick; and Maier, Alfred E.,3,460,075.
Maier, Cletus E., to General Electric Company. Multiple surface glass seal for a high voltage discharge device contacting the inner and outer surface and the open end edge of the hollow tubular anode lead. 3,456,148, 7-15-69, Cl. 313-317.
Maier, Dale E.; and Cwik, Joseph A., to Teledyne, Inc., mesne. Tube bending apparatus parts therefor. 3,457,753, 7-29-69, Cl. 72-154.
Maier, Dale E.; Van Stelle, Richard; and Cwik, Joseph A., to Teledyne, Inc., mesne. Method and apparatus for draw forming tubes and the like including mandrels therefor. 3,456,482, 7-22-69, Cl. 72-465.
Maier, Erwin. Marking apparatus for buttons and buttonholes. 3,442,022, 5-6-69, Cl. 33-190.
Maier, Gary W.; and Jehn, David H., to Dun-Hot, Inc. Packaging machine for filling and closing a receptacle. 3,445,988, 5-27-69, Cl. 53-282.
Maier, Jakob. Milking machine. 3,482,547, 12-9-69, Cl. 119-14.36
Maier, Karl: *See—*
Kranz, Joachim; Maier, Karl; and Polster, Rudolf,3,435,054.
Maier, Kurt Maria; Mayer, Viktor; Mortl, Gunther Lorenz; and Skalla, Norbert Franz, to Osterreichisch-Amerikanische Magnesit Aktiengesellschaft. Process for the manufacture of refractory magnesia-chrome and chrome-magnesia products. 3,429,723, 2-25-69, Cl. 106-59.
Maier, Ludwig, to Monsanto Company. Process for preparing quaternary phosphonium halides. 3,432,559, 3-11-69, Cl. 260-606.5
Maier, Ludwig, to Monsanto Company. Alkali aminophosphides and alkaline earth aminophosphides and process of preparation. 3,439,032, 4-15-69, Cl. 260-551.
Maier, Ludwig, to Monsanto Company. Primary alkylene diphosphines and process. 3,484,490, 12-16-69, Cl. 260-606.5
Maier, Martin: *See—*
Purrer, Josef; and Maier, Martin,3,475,890.
Maier, Richard, to Siemens Aktiengesellschaft. Method of producing superconductive tapes or bands. 3,443,304, 5-13-69, Cl. 29-472.1
Maier, Richard, to Siemens Aktiengesellschaft. Method for manufacturing superconductive conductors. 3,468,021, 9-23-69, Cl. 29-599.
Maier, William H.; and Ward, Dennis J., to Universal Oil Products Company. Manufacture of ethylbenzene. 3,478,119, 11-11-69, Cl. 260-671.
Maier, William. Electrical junction boxes. 3,430,799, 3-4-69, Cl. 220-3.94
Maierform Trust Reg.: *See—*
Csupor, Denis, 3,433,194.
Maierson, Theodore, to National Cash Register Company, The. Treatment of capsules in liquid to inhibit clustering. 3,436,452, 4-1-69, Cl. 264-344.
Maige, Pierre G.: *See—*
Dehaine, Georges P.; and Maige, Pierre G.,3,425,252.
Maigrot, Madeleine Georgette: *See—*
Lenoir, Maurice Auguste Jacques; Lanzarone, Roland Michael; and Maigrot, Madeleine Georgette,3,440,254.

Maigrot, Robert, to Bliss, E. W., Company. Press brake and exhaust valve therefor. 3,480,121, 11-25-69, Cl. 192-18.
Mail, Isaac Paul; and Copple, William E., to Combustion Engineering, Inc. Gas bubble generating and distributing system. 3,446,488, 5-27-69, Cl. 261-77.
Maile, Otto, to Leathercraft Inc. Luggage case. 3,448,838, 6-10-69, Cl. 190-49.
Mailen, Tyson H.; and Stansbury, Roy E., to Phillips Petroleum Company. Protected buried material and method of protecting same. 3,448,586, 6-10-69, Cl. 61-72.1
Mailey, Everett A., to Pennsalt Chemicals Corporation. Method of preparing pyridines. 3,428,640, 2-18-69, Cl. 260-290.
Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Automatic firearm with breech mechanism unlocked by the recoiling barrel. 3,437,006, 4-8-69, Cl. 89--169
Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Breechcase for firearm. 3,447,418, 6-3-69, Cl. 89-199.
Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Automatic and semi-automatic guns having a double feed mechanism. 3,452,640, 7-1-69, Cl. 89-33.
Maillard, Jacques Georges Albert Eugene; and Vincent, Michel Marius Jean, to Laboratoires Jacques Logeais, Societe Anonyme. Therapy of ammoniacal intoxications by di-L- ornithine α-ketoglutarate. 3,441,650, 4-29-69, Cl. 424-316.
Maillet, Alfred M. A., to La Soudure Electrique Languepin. Method of and device for the abrasive shaping of a workpiece. 3,435,562, 4-1-69, Cl. 51-60.
Maillet, Alfred M. A., to La Soudure Electrique Languepin. Spark erosion machining process. 3,466,416, 9-9-69, Cl. 219-69.
Maillet, Alfred M. A.: *See*—
Braudeau, Pierre; and Maillet, Alfred M. A.,3,433,919.
Maillot, Philippe J. P.: *See*—
de Gramont, Arnaud M. J.; Maillot, Philippe J. P.; and Weisang, Joseph Edouard,3,427,357.
Mailman, Richard: *See*—
Leucci, Gino, 3,460,529.
Maiman, Theodore H., to Union Carbide Corporation. Method and apparatus for increasing the radiance of lasers. 3,437,942, 4-8-69, Cl. 330-4.3
Maiman, Theodore H., to Hughes Aircraft Company. Laser systems employing a solid laser material. 3,451,010, 6-17-69, Cl. 331-94.5
Main, C. Eugen, Metaverarbeitung G.m.b.H.: *See*—
Gallina, Kurt, 3,474,614.
Main, Howard Vern. Rocket engine chamber cooling and injection system. 3,451,223, 6-24-69, Cl. 60-258.
Main, James Thomas: *See*—
Cockbill, Michael Henry; and Main, James Thomas,3,461,835.
Main, Robert: *See*—
Cherry, Walter L.; and Main, Robert,3,480,752.
Main, Robert, to Cherry Electrical Products Corporation. Magnetic pulse switch actuator. 3,436,699, 4-1-69, Cl. 335-188.
Mainar S.A. Industrial: *See*—
Calvano, Ferruccio C., 3,477,616.
Maincon, Maurice: *See*—
Conseiller, Yvon; and Maincon, Maurice,3,465,501.
Mainers, Artez F.: *See*—
Keathley, Maurice F.; and Mainers, Artez F.,3,431,834.
Maines, Robert Q., to Ovitron Corporation. Transformer including boron nitride insulation. 3,428,928, 2-18-69, Cl. 336-61.
Maines, Virgil L., to Owens-Corning Fiberglas Corporation. Filter system for particulate matter. 3,469,057, 9-23-69, Cl. 219-69.
Mainguy, Donald N., 1/2 to Andrews, John S. Multi-purpose furniture unit. 3,423,772, 1-28-69, Cl. 5-2.
Mainhardt, Robert: *See*—
Biehl, Arthur T.; and Mainhardt, Robert,3,437,289.
Mainka, Alfred: *See*—
Kornbichler, Heinz; Ullrich, Walter; Mainka, Alfred; and Lohse, Karl-Heinz,3,467,578.
Mainka, Hubert, to Bosch, Robert, G.m.b.H. Windshield wiper for automobiles or the like. 3,473,186, 10-21-69, Cl. 15-250.36
Mainland, Albert F.: *See*—
Gallay, Harry M.; Mainland, Albert F.; Teumin, Mota; and Yarina, William,3,464,274.
Mains, David K., to United States of America, Air Force. Stator cooling system for A.C. generator. 3,430,085, 2-25-69, Cl. 310-54.
Mainstone, Kenneth A., to Black Clawson Company, The. Winder for web materials. 3,482,793, 12-9-69, Cl. 242-56.
Maintenance Engineering Corporation: *See*—
Park, James H., III; Redmon, James R.; and Leverett, Wilton H., 3,450,383.
Maiocchi, Luigi, to Pirelli S.p.A. Coupling profiles in removable tread tires. 3,452,797, 7-1-69, Cl. 152-187.
Maiocchi, Luigi, to Pirelli S.p.A. Removable tread tires. 3,474,848, 10-28-69, Cl. 152-176.
Maiorov, Viktor Vasilievich: *See*—
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich,3,447,625.
Maiques, Ricardo Camilleri. Compound glass for windows. 3,469,348, 9-30-69, Cl. 49-413.
Maire, Alan E., to Robertshaw Controls Company. Ultrasonically welded switch construction and method. 3,485,982, 12-23-69, Cl. 200-168.
Mais, Ago: *See*—
Miller, Eugene J., Jr.; and Mais, Ago,3,424,794.
Miller, Eugene J., Jr.; and Mais, Ago,3,457,312.
Miller, Eugene J., Jr.; and Mais, Ago,3,480,674.
Miller, Eugene J., Jr.; Mais, Ago; and Say, Domingo,3,481,977.
Tiefenthal, Harlan E.; Miller, Eugene J., Jr.; and Mais, Ago,3,457,311.
Maisel, Eugene Frank: *See*—
Mickelson, Floyd Louis; and Maisel, Eugene Frank,3,457,107.
Wilde, Arthur G., Jr.; Maisel, Eugene F.; and Mickelson, Floyd L.,3,447,972.
Maisey, Roy Frederick, to Geistlich, Ed., Sohne AG fur Chemische Industrie. Treatment of depression with diphenyl prop-2-enyl - amine derivatives. 3,422,203, 1-14-69, Cl. 424-330.
Maissel, Leon I.: *See*—
Davidse, Pieter D.; and Maissel, Leon I.,3,432,417.
Davidse, Pieter D.; Dhaka, Vir A.; and Maissel, Leon I.,3,474,021.
Flur, Barry L.; Davidse, Pieter D.; and Maissel, Leon I.,3,480,922.
Glang, Reinhard; and Maissel, Leon I.,3,472,074.
Maissel, Leon I.; and Wilcox, David L., to International Business Machines Corporation. Method of forming a glass filled gap. 3,458,926, 8-5-69, Cl. 29-603.
Maitani, Yoshihisa, to Olympus Optical Co., Inc. Preset mechanism of diaphragm for single lens reflex camera. 3,464,340, 9-2-69, Cl. 95-64.
Maithonis, William C.; and Barlow, Stephen A., to Lockheed Aircraft Corporation. Stored electrical energy circuit with safety interlocks. 3,448,339, 6-3-69, Cl. 317-9.
Maiwurm, Paul S., deceased0 (by Stout, Anna C.0Thompson, Charles S., executor). Machine for making plastic containers. 3,421,179, 1-14-69, Cl. 18-5.
Maizel, Jacob V., Jr., to Yeshiva University. Fraction collector. 3,450,173, 6-17-69, Cl. 141-130.
Maizel, Jacob V., Jr., to Yeshiva University. Method of mechanical fractionation of gels and apparatus for preforming the same. 3,451,629, 6-24-69, Cl. 241-1.
Majcher, John: *See*—
Yorgin, Nick; and Majcher, John,3,462,716.
Majer, Heinz: *See*—
Vester, Frederic; Majer, Heinz; and Mueller, Johannes,3,472,831.
Majerus, John B., to Collins Radio Company. Synchro actuated switch system. 3,483,548, 12-9-69, Cl. 340-347.
Majerus, John B.: *See*—
Lundgreen, Michael W.; Tuthill, Edward G.; and Majerus, John B.,3,478,355.
Majestic Company, Inc., The: *See*—
Winegardner, Donald E., 3,421,495.
Winegardner, Donald E., 3,431,056.
Majestic Tile Company: *See*—
Bachner, George L., 3,443,786.
Majewski, Henry: *See*—
Baetzel, Robert J.; and Majewski, Henry,3,431,127.
Majewski, John V., to McGraw-Edison Company. Cable junction. 3,431,539, 3-4-69, Cl. 339-103.
Majewski, Mieczyslaw Stanislaw. Plumb bob and straight-edge with interchangeable parts. 3,448,525, 6-10-69, Cl. 33-216.
Majewski, Theodore E., to Dow Chemical Company, The. Removal of deposits from process vessels. 3,477,451, 11-11-69, Cl. 134-22.
Majewski, Theodore E.; and Tarkowski, Daniel W., to Dow Chemical Company, The. Preparation of oxydi(p-phenylene isocyanate). 3,449,395, 6-10-69, Cl. 260-453.
Majima, Hideyasu, to Hitachi, Ltd. Opto-electronic input and output memory device. 3,444,530, 5-13-69, Cl. 340-173.
Majkrzak, Charles P., to International Telephone and Telegraph Corporation. Lubricating arrangement for mercury-vapor turbogenerator. 3,447,314, 6-3-69, Cl. 60-36.
Majkrzak, Charles P.; and Polgar, Michael S., to International Telephone and Telegraph Corporation. Power supply system. 3,449,589, 6-10-69, Cl. 290-2.
Majnarich, John J. Process for extracting antiinflammatory and hypocholesterolemic principle from plant sources and the product produced thereby. 3,420,935, 1-7-69, Cl. 424-195.
Major, Louis A.: *See*—
Patarini, Leon M.; Montgomery, Elmer M.; and Major, Louis A.,3,468,153.
Major, Norman L.: *See*—
Haner, Robert L.; and Major, Norman L.,3,447,084.
Major Pool Equipment Corporation: *See*—
Schmerler, Joseph; and Mendelow, Robert A., 3,474,910.
Majors, Francis W.: *See*—
Willsey, Charles H.; and Majors, Francis W.,3,461,459.

Majors, Paul A., to Hill Top Research, Inc. Tape rewinding accessory for computers, calculating machines, and the like. 3,447,657, 6-3-69, Cl. 197-133.
Makabe, Kazuo, to Daiichi Yakuhin Sangyo Kabushiki Kaisha. Process for preparation of iodinated lecithin. 3,423,441, 1-21-69, Cl. 260-403.
Makamura, Takuji: *See—*
Tanigawa, Shizuhiko; Yabuno, Yoshio; Nakamura, Koji; Makamura, Takuji; and Fujimori, Nobuyoshi,3,422,230.
Makansi, Munzer; and McKenica, Winfield L., to Du Pont de Nemours, E. I., and Company. Fused pleated cellular sheets. 3,485,710, 12-23-69, Cl. 161-123.
Makas, Albert S., to Polaroid Corporation. Birefringent polarizer. 3,438,691, 4-15-69, Cl. 350-157.
Makay, Nicolas. Process for extracting bromelain. 3,455,787, 7-15-69, Cl. 195-66.
Makeham, Sam Robert; Benyon, John; and Shepherd, John Michael, to T.M.M. (Research) Limited. Spinning of textile yarns. 3,455,095, 7-15-69, Cl. 57-34.
Maker, James H., to Associated Spring Corporation. Actuator sleeves for spring clutch. 3,429,408, 2-25-69, Cl. 192-81.
Maker, James H., to Associated Spring Corporation. Method for quickly determining hydrogen embrittlement of metallic parts. 3,455,152, 7-15-69, Cl. 73-87.
Makhlouf, Joseph M., to Mine Safety Appliances Company. Stable diborane diammoniate and method of preparing same. 3,437,456, 4-8-69, Cl. 23-358.
Makhteshim Chemical Works Ltd.: *See—*
Abrahami, Shoshana; Molcho, Aharon; and Wachs, Reuven (Roman), 3,480,561.
Maki, Michiyoshi: *See—*
Kimura, Hirokazu; Tamura, Hifumi; Maki, Michiyoshi; and Higuchi, Hisayuki,3,474,245.
Maki, Shin; Nishimura, Yoshihiro; and Fujiki, Akihiko, to Nissan Jidosha Kabushiki Kaisha. Shock absorbing device. 3,482,653, 12-9-69, Cl. 188-1.
Makin, Earle C., Jr.: *See—*
Beckham, Rodney D.; Makin, Earle C., Jr.; and Urry, Wilbert H.,3,437,704.
Fannin, Loyd W.; and Makin, Earle C., Jr.,3,424,807.
Gebhart, Herbert J., Jr.; and Makin, Earle C., Jr.,3,449,241.
Beckham, Rodney D.; and Makin, Earle C.,3,427,362.
Makinen, John P., to General Motors Corporation. Vehicle passenger restraint harness. 3,451,720, 6-24-69, Cl. 297-389.
Makinen, Viljo J.: *See—*
Suominen, Heikki S.; Makinen, Viljo J.; and Lindstrom, Aarno S.,3,482,761.
Makino, Katsuo; and Sawato, Iwao, to Fuji Shashin Film Kabushiki Kaisha. Signal distributing system. 3,475,552, 10-28-69, Cl. 178-7.6
Makino, Shinobu, to Shinko Electric Co., Ltd. Vibrator. 3,479,542, 11-18-69, Cl. 310-81.
Makino, Soichiro. Fishing devices. 3,452,467, 7-1-69, Cl. 43-17.
Makino, Soichiro. Condition responsive device. 3,461,592, 8-19-69, Cl. 43-17.
Makino, Sumio: *See—*
Matsuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi,3,484,604.
Matuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi,3,486,022.
Makino, Takayuki, to Toyota Jidosha Kogyo Kabushiki Kaisha. Method and device for digital, multi-factor waveform analysis of variable stress. 3,422,349, 1-14-69, Cl. 324-77.
Makinson, George Kenneth: *See—*
Lambert, Arthur; Makinson, George Kenneth; and Hill, Arthur,3,466,318.
Makishima, Shoji, to Eizo Komiyama, mesne. Card system of identification. 3,468,046, 9-23-69, Cl. 40-2.2
Makita, Seiichi, to Nippon Toki Kabushiki Kaisha. Detachable handle apparatus for casserole dishes or the like. 3,431,006, 3-4-69, Cl. 294-31.
Maknis, Walter. Heat treatment of metal. 3,470,035, 9-30-69, Cl. 148-13.
Makow, David M., to Canadian Patents and Development, Limited. Displacement measuring device including a spaced four-corner electrode array. 3,479,588, 11-18-69, Cl. 324-61.
Makowicki, James M., to Curtis, S., & Son, Incorporated. Blister package. 3,467,248, 9-16-69, Cl. 206-78.
Makowski, Alexander G., to Container Corporation of America. Method for rapid extrusion of parison in blow molding operation. 3,440,310, 4-22-69, Cl. 264-98.
Makowski, Frank T.: *See—*
Gewartowski, Richard S.; Makowski, Frank T.; and Deibel, Joseph L.,3,483,739.
Makowski, Henry S., to Esso Research and Engineering Company. Process for the manufacture of 5-alkenyl-2- norbornenes. 3,427,360, 2-11-69, Cl. 260-666.
Makowski, Henry S.; and Lynn, Merrill, to Esso Research and Engineering Company. Laminating varnish consisting of low viscosity, curable block copolymer. 3,439,064, 4-15-69, Cl. 260-879.
Makus Zdzislaw: *See—*
Baltes, Josef; Weghorst, Friedrich; and Makus Zdzislaw,3,472,816.
Mala, Alain, to Regie Nationale des Usines Renault. Power assisted steering systems of automotive vehicles. 3,465,645, 9-9-69, Cl. 91-51.
Malaby, Davey L.: *See—*
Garry, Gerald A.; Kostuch, Donald J.; Lawless, Frederick W.; and Malaby, Davey L.,3,458,688.
Malaby, Davey L., to International Business Machines Corporation. Maximum occurring event determining apparatus. 3,422,255, 1-14-69, Cl. 235-92.
Malaby, Davey L., to International Business Machines Corporation. Character size measuring and normalizing for character recognition systems. 3,462,737, 8-19-69, Cl. 340-146.3
Malachowski, Handry J., to Yankee Metal Products Corp. Rear view mirror support bracket. 3,420,490, 1-7-69, Cl. 248-486.
Malakoff, Louis, to Collins Radio Company. FSK receiver wherein one binary signal is represented by a half cycle of a given frequency and the other binary signal is represented by a full cycle of twice that frequency. 3,437,932, 4-8-69, Cl. 325-320.
Malakoff, Meyer: *See—*
Brechner, Stanley; Malakoff, Meyer; and Rieger, Martin M.,3,433,868.
Malan, Howard J., to General Dynamics Corporation. Integration circuit. 3,450,898, 6-17-69, Cl. 307-229.
Malarkey, Neil, Jr. Press with deformable cylinders. 3,425,342, 2-4-69, Cl. 100-151.
Malarkey, Neil, Jr. Filtering means for filter press. 3,453,951, 7-8-69, Cl. 100-118.
Malavasi, Stuart H.; and Miller, Marsden L., to Ranco Incorporated. Burner control apparatus. 3,445,173, 5-20-69, Cl. 431-25.
Malavieille, Louis Henry Lucien. Electric switch wafer assembly. 3,472,985, 10-14-69, Cl. 200-166.
Malbec, Edouard. Universal rotary volumetric-pulsation machine. 3,433,170, 3-18-69, Cl. 103-149.
Malby, Howard S.; Recknagel, Fred M.; and Tobie, Roger S., to Chevron Research Company. High-strength container and container blanks having seamless bottom walls and method of forming same. 3,437,016, 4-8-69, Cl. 93-35.
Malchair, Armand, to Peltzer & Fils S.A. Weft nipper for circular looms. 3,422,858, 1-21-69, Cl. 139-13.
Malchair, Armand, to Peltzer & Fils S.A. Patterning mechanism for circular looms. 3,422,859, 1-21-69, Cl. 139-13.
Malchair, Armand, to Peltzer & Fils S.A. Method of, and equipment for, forming and moving picks in circular weaving looms. 3,439,714, 4-22-69, Cl. 139-13.
Malchaire, Marcel Jean Joseph, to La Soudure Electrique Autogene, Procedes Arcos. Coated electrode and process for electric arc welding. 3,423,565, 1-21-69, Cl. 219-146.
Malco Manufacturing Company, Inc.: *See—*
Walter, George, 3,434,091.
Walter, George, 3,434,094.
Malco Products, Inc.: *See—*
Keymer, Mark W., 3,423,984.
Keymer, Mark W., 3,447,580.
Malcolm, Michael O.: *See—*
Larkins, Thomas H., Jr.; and Malcolm, Michael O.,3,450,729.
Malcolm, Vincent T., Jr.: *See—*
Colechia, Raymond L.; and Malcolm, Vincent T., Jr.,3,451,224.
Malcolm, William R., to Buckner Industries, Inc. Fluid motor. 3,448,660, 6-10-69, Cl. 91-56.
Malcolm, William W.; and Moore, Richard L., to United States of America, Army. Method of making variable reluctance position transducer. 3,483,613, 12-16-69, Cl. 29-595.
Malczewski, Jeremie, to Societe Anonyme dite: Bronzavia. Method of cooling the interior of a chamber. 3,483,711, 12-16-69, Cl. 62-91.
Maldacker, Antal A. Multi-headed mallets. 3,465,635, 9-9-69, Cl. 84-422.
Malden, Peter James; and Windle, William, to English Clays Lovering Pochin & Company Limited. Method of improving the whiteness of clays. 3,482,685, 12-9-69, Cl. 209-5.
Maldonado, Joseph L. Flatwork folder and method. 3,437,334, 4-8-69, Cl. 270-69.
Maldy, Jacques: *See—*
Donadieu, Lucien; Royet, Jean; and Maldy, Jacques,3,474,187.
Male, Lucien, to ARCA Premoncontrole. Fluid regulator valve. 3,435,850, 4-1-69, Cl. 137-625.34
Malec, Robert E.: *See—*
Betty, Roy J.; Malec, Robert E.; and Tippett, Charles E.,3,457,185.
Malec, Robert E., to Armour Industrial Chemical Company, mesne. Process for cleaning valve in crankcase ventilating system and cleaning composition. 3,476,091, 11-4-69, Cl. 123-1.
Malec, Robert E.; and Betty, Roy J., Jr., to Armour Industrial Chemical Company. Corrosion inhibitor composition and method. 3,432,527, 3-11-69, Cl. 252-392.
Malenfant, Yve P.M.J., 1/2 to Etablissements J. Danois & Fils. Window structure. 3,430,384, 3-4-69, Cl. 49-371.

Malewicz, Leonard A., to General Electric Company. Bell-end condenser tubes. 3,452,814, 7-1-69, Cl. 165-178.
Maley, Dale R.: *See—*
Apple, Wayne R.; and Maley, Dale R.,3,483,721.
Maley, Dale R., to Automation Industries, Inc. Nondestructive tester. 3,427,861, 2-18-69, Cl. 73-15.
Maley, Dale R., to Automation Industries, Inc. Material tester. 3,433,052, 3-18-69, Cl. 73-15.
Maley, Dale R., to Automation Industries, Inc. Nondestructive tester. 3,434,332, 3-25-69, Cl. 73-15.
Maley, Dale R., to Automation Industries Inc. Nondestructive tester. 3,451,254, 6-24-69, Cl. 73-15.
Maley, Gerald A.: *See—*
Heilweil, Melvin F.; Maley, Gerald A.; Muhlenbruch, Gilbert R.; and Ogden, Stewart,3,459,926.
Malfroy, Remy, to Boivin, Claude. Screen. 3,477,574, 11-11-69, Cl. 209-403.
Malherbe, Edward P., to Everest & Jennings, Inc. Fences for wheeled stretchers and beds. 3,419,922, 1-7-69, Cl. 5-331.
Malhotra, Sudarshan K.; Moakley, Douglas F.; and Johnson, Francis, to Dow Chemical Company, The. Method for selective reduction of α,-β- ethylenically unsaturated carbonyl compounds. 3,463,810, 8-26-69, Cl. 260-534.
Maliakal, Joseph C., to National Research Corporation. Orbiting electron ionization pump having two anodes. 3,449,627, 6-10-69, Cl. 315-109.
Maliakal, Joseph C., to Norton Company. Method of making or repairing a getter vacuum pump. 3,486,213, 12-30-69, Cl. 29-156.4
Malick, Dell M., to Metro Mfg., Inc. Keg tapping structure. 3,454,199, 7-8-69, Cl. 222-400.7
Malick, Emil A., to Phillips Petroleum Company. Preparation of reconstituted beer. 3,457,082, 7-22-69, Cl. 99-48.
Malickson, Ephraim. Snow shovelling apparatus. 3,469,326, 9-30-69, Cl. 37-53.
Malik, Frank V. Process for laminating hides with foil. 3,458,376, 7-29-69, Cl. 156-233.
Malin, Eugene F. Convertible vessel. 3,437,067, 4-8-69, Cl. 114-61.
Malinaric, Paul J., to Xerox Corporation. Method and aparatus for selective corona treatment of toner particles. 3,444,369, 5-13-69, Cl. 250-65.
Malinovskaja, Galina Nickolaevna: *See—*
Kuljbakh, Valjter Osvaljdovich; Sokolov, Leonid Borisovich; Sveshnikov, Jury Fedorovich; Kuznetsova, Olja Alexandrovna; Malinovskaja, Galina Nickolaevna; and Raigorodskaja, Valentina Jakovlevna,3,439,090.
Malinovsky, Vsevolod Alexandrovich. Purification of liquids. 3,443,694, 5-13-69, Cl. 210-201.
Malinowska, Irena; Myslinska, Celina; and Urbanska, Ewa. Method of disinfection of refrigerator rooms. 3,484,187, 12-16-69, Cl. 21-58.
Malinowski, Eugene: *See—*
Baer, Charles E., Jr.; Evans, William; and Malinowski, Eugene,3,436,235.
Malinowsky, Boris, deceased0 (by Becker, Peter; administrator), to Bolkow Gesellschaft mit beschrankter Haftung. Signal generating systems. 3,449,676, 6-10-69, Cl. 325-142.
Malins, Donald C.: *See—*
Wekell, John C.; Houle, Clifford R.; and Malins, Donald C.,3,420,869.
Malissa, Carl A., to Airstream Products, Inc. Fire shield damper device. 3,451,163, 6-24-69, Cl. 49-7.
Maliszewski, Leonard A.; and Hsu, Robert T., to Continental Can Company, Inc. Can body guard bead for scored can ends. 3,451,586, 6-24-69, Cl. 220-48.
Malkiel, Saul L., to Bendix Corporation, The. n-Leaf rose pattern optical radiation sensor and tracker system. 3,433,895, 3-18-69, Cl. 178-7.2
Malkiely, Shimon: *See—*
Raviv, Samuel; Rabinovitz, Elsa; and Malkiely, Shimon,3,446,713.
Mallander, Richard G., to Shell Oil Company. Device for the controlled yielding of an underground opening. 3,462,959, 8-26-69, Cl. 61-45.
Mallander, Richard G., to Shell Oil Company. Method of mining thick coal seams by longwalling and conveying. 3,467,435, 9-16-69, Cl. 299-11.
Mallard, Manley T.: *See—*
Rhoades, Lee A.; and Mallard, Manley T.,3,482,034.
Mallard, Robert G., to Marshall, John Donald, and Bomar, Horace L., trustees of Carolina Patent Development Trust, The. Picker stick. 3,448,776, 6-10-69, Cl. 139-157.
Mallary, Miller B., to Engelhard Minerals & Chemicals Corporation, mesne. Clay treatment. 3,439,802, 4-22-69, Cl. 209-5.
Mallatratt, Richard D., to Elco Corporation. Retriggerable mercury switch. 3,474,203, 10-21-69, Cl. 200-152.
Mallebrein, Rainer, to Telefunken Patentverwertungsgesellschaft m.b.H. Electron beam deflection circuits. 3,435,281, 3-25-69, Cl. 315-27.
Mallen, Mario Salazar, to American Cyanamid Company. Method of treating asthma. 3,457,350, 7-22-69, Cl. 424-250.
Mallery, Paul, to Bell Telephone Laboratories, Incorporated. Connector for electrical circuit board. 3,444,503, 5-13-69, Cl. 339-61.
Mallet, Maurice Jules Arthur: *See—*
Lateltin, Paul Etienne; and Mallet, Maurice Jules Arthur,3,438,928.
Mallet, Roger: *See—*
Grange, Bernard; Long, Charles-Jean; Jugue, Bernard; and Mallet, Roger,3,446,176.
Mallett, Alfred L., to Seeburg Corporation, The. Counter resetting arrangement for rhythm accompaniment starting. 3,478,633, 11-18-69, Cl. 84-1.03
Malley, Harry Hartley; and Halls, Gordon Allan, to Rolls-Royce Limited. Aerofoil shaped blade. 3,427,001, 2-11-69, Cl. 253-39.15
Mallinckrodt Chemical Works: *See—*
Bertsch, Hugh C.; Hurd, Richard N.; McDermott, John P.; and White, Wesley R., 3,437,677.
Gray, Allan Poe; and Heitmeier, Donald E., 3,472,895.
Gray, Allan Poe; and Kraus, Harold, 3,478,038.
Leifield, Robert F., 3,455,818.
Ogier, George; and Shumate, Donald J., 3,446,965.
Salivar, Charles J.; and Stade, John H., 3,446,596.
Small, William A.; and Ginther, Fred J., 3,423,027.
Wallingford, Vernon H., 3,446,837.
Mallinger, Morton A.: *See—*
East, Clarence Robert; and Mallinger, Morton A.,3,431,977.
Mallinson, Ronald I. Valves for controlling the supply of drinking water to poultry or other livestock. 3,477,471, 11-11-69, Cl. 137-614.18
Mallios, Panayotis D., to Staley, A. E., Manufacturing Company. Alkyd resins and their preparation from reaction mixtures comprising an alpha, alpha,-dimethylol monocarboxylic acid. 3,487,034, 12-30-69, Cl. 260-22.
Mallis, James N., to United States of America, Navy. FS-smoke agent inhibitor for metals. 3,446,748, 5-27-69, Cl. 262-387.
Malloch, Alexander Stirling: *See—*
Marsland, Jack Ronald; and Malloch, Alexander Stirling,3,465,779.
Mallonee, James Edgar, du Pont de Nemours, E. I., and Company. Nitration of 4-acetamidobenzoic acid. 3,428,673, 2-18-69, Cl. 260-518.
Mallory Battery Company of Canada Ltd.: *See—*
Kinnon, Samuel J. G., 3,464,577.
Mallory, Donald G.; Ashton, Raymond J.; and Liva, Robert H., to Xerox Corporation. Xerographic copying apparatus. 3,480,360, 11-25-69, Cl. 355-8.
Mallory, Edwin E.; and Shook, Donald H., to National-Standard Company. Former for bead building machines or the like. 3,429,765, 2-25-69, Cl. 156-422.
Mallory, Edwin E.: *See—*
Waterhouse, Bruce L.; Jernt, Fred M.; and Mallory, Edwin E.,3,468,253.
Mallory Electric Corporation: *See—*
Chavis, Leon A., 3,430,615.
Mallory, Glenn O., Jr.: *See—*
Baudrand, Donald W.; and Mallory, Glenn O., Jr.,3,438,798.
Mallory, Henry Rogers; and Wall, Alexander C. Polarized electrical relay. 3,470,504, 9-30-69, Cl. 335-78.
Mallory, P. R., & Co., Inc.: *See—*
Angelovich, Stephen J., 3,457,117.
Anglin, James M., 3,453,535.
Baier, Frederick J.; and Vierow, William F., 3,465,426.
Ball, James V., 3,465,230.
Beemer, Jack A., 3,456,157.
Bement, Lyle W.; Morning, William L.; Benjamin, James E.; South, Richard P.; Thompson, Richard B.; and Anglin, James M., 3,460,032.
Booe, James M., 3,439,231.
Booe, James M.; and Hood, Joseph T., 3,465,402.
Booe, James M., 3,466,508.
Braiman, Jerry; and Shieh, Edwin W., 3,439,233.
Braiman, Jerry; and Shieh, Edwin W., 3,439,234.
Braiman, Jerry, 3,458,645.
Camenzind, Hans R., 3,437,944.
Camenzind, Hans R., 3,440,648.
Camenzind, Hans R., 3,445,788.
Camenzind, Hans R., 3,459,970.
Clune, Richard R.; and Field, Harold, 3,427,204.
Donald, Raymond G., 3,465,214.
Dotto, Gianni A., 3,427,485.
Dotto, Gianni A., 3,447,076.
Dotto, Gianni A., 3,447,110.
Dotto, Gianni A., 3,459,981.
Dotto, Gianni A., 3,477,460.
Ginsberg, Michael J.; and Krock, Richard H., 3,428,450.
Goff, Milton L., 3,448,366.
Hirsch, James A.; and Shelton, Robert F., 3,443,180.
Hirsch, James A., 3,450,995.
Hirsch, James Arthur; and Smith, Robert D., 3,461,322.

Hirsch, James Arthur, 3,486,044.
Howard, Lowell F.; and Sturgill, Charles G., 3,440,495.
Howard, Lowell F.; and Christiansen, Paul J., 3,475,658.
Kenney, James C.; and Lawrence J Richard, 3,438,753.
Klein, Gerhart P., 3,422,515.
Klein, Gerhart P., 3,456,694.
Klein, Gerhart P., 3,458,916.
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R., 3,438,751.
Krock, Richard H.; Larsen, Earl I.; and Jones, Clintford R., 3,438,752.
Krock, Richard H.; and Jones, Clintford R., 3,456,322.
Leftwich, James R., 3,445,677.
Murray, Stephen F.; and Chestnut, Benjamin F., 3,436,498.
Murray, Stephen F., 3,448,306.
Otto, William C., 3,445,797.
Pearce, Godfrey R.; Sparrow, Lawrence R.; and Braiman, Jerry, 3,474,300.
Pervorse, Richard E.; Wiser, Joseph E.; Peterson, John A.; and Murray, Stephen F., 3,448,308.
Phillips, Bernard L., 3,462,723.
Pomerantz, Daniel I.; and Wallis, George, 3,470,348.
Putterbaugh, James B.; and Wiser, Joseph E., 3,466,464.
Rao, Bhaskara M. L.; and Holmes, Robert W., 3,463,670.
Rao Bhaskara, Mlarur Lakshmanaroa, 3,455,742.
Rigsbee, William E.; and Lake, Lelyn D., 3,453,547.
Silgailis, John, 3,467,895.
Silgailis, John, 3,473,092.
Simmons, Harold T., 3,450,854.
Simmons, Harold T.; and Pervorse, Richard E., 3,476,892.
Sparrow, Lawrence R.; and Braiman, Jerry, 3,436,610.
Swazy, Earl F.; and Kenney, James C., 3,459,915.
Van Buskirk, Mark; and Bland, Larry I., 3,439,232.
Vierow, William F., 3,424,952.
Vogt, Harold W., Jr., 3,446,922.
Voland, Elmo W.; and Wiser, Joseph E., 3,446,923.
West, Harold E., 3,436,759.
Whoriskey, Peter J., 3,422,323.
Wiser, Joseph E.; and Voland, Elmo W., 3,424,876.
Wiser, Joseph E., 3,424,877.
Zaborney, John F., 3,433,351.
Zaleski, John F., 3,484,297.
Zdanuk, Edward J.; and Krock, Richard H., 3,423,203.
Zdanuk, Edward J.; and Krock, Richard H., 3,440,043.
Zdanuk, Edward J.; and Krock, Richard H., 3,449,120.
Zdanuk, Edward J., 3,455,663.
Zdanuk, Edward Joseph; and Krock, Richard Howard, 3,467,517.

Malloy, George W. Hand truck brake. 3,486,587, 12-30-69, Cl. 188-22.

Malloy, Paul Vincent. Method of earth working. 3,452,545, 7-1-69, Cl. 61-35.

Mallrich, Rudolf; and Kolb, Hermann, said Kolb assor. to Seitz-Werke G.m.b.H. Counter pressure filling machine with a plurality of chambers. 3,478,785, 11-18-69, Cl. 141-39.

Mally, Joachim: *See*—
Otzipka, Willi; and Mally, Joachim,3,476,997.

Malm, Carl J.: *See*—
Crane, Carlton L.; and Malm, Carl J.,3,485,816.

Malm, Curtis L., to Paper Mate Manufacturing Company. Writing instruments and self-pressurizing assemblies therefor. 3,420,610, 1-7-69, Cl. 401-112.

Malm, Donald Irwin: *See*—
Nighswonger, Lester Leroy; Hunk, Billie Gene; and Malm, Donald Irwin,3,480,099.

Malm, Donald; and Kainer, Carl Edward, to Deere & Company. Hydrostatic front wheel drive for a tractor. 3,458,005, 7-29-69, Cl. 180-44.

Malm, John A., to Chandler & Price Company, The. Hydraulic paper cutter and clamp. 3,452,630, 7-1-69, Cl. 83-380.

Malm, Lars G.; and Hilborn, Hans G., to Industrikemiska Aktiebolaget. Plant for treating sewage water. 3,442,386, 5-6-69, Cl. 210-195.

Malm, Robert E., to Page Communications Engineers, Inc. Adaptive data modem whereby digital data is encoded in time division format and converted to frequency division. 3,435,147, 3-25-69, Cl. 179-15.

Malm, Robert E., to Page Communications Engineers, Inc. Signal correlation system using delta modulation. 3,479,495, 11-18-69, Cl. 235-181.

Malmberg, Earl W.: *See*—
Baillie, Robert A.; and Malmberg, Earl W.,3,487,003.

Malmberg, Earl W.; and Robinson, William M., to Sun Oil Company. Procedure for disposing of petroleum oil on a water surface. 3,457,168, 7-22-69, Cl. 210-21.

Malmberg, Gunnar: *See*—
von Krusenstierna, Otto; Lindholm, Ingemar; and Malmberg, Gunnar,3,432,353.

Malmberg, Paul R.: *See*—
Hamilton, Donald R.; and Malmberg, Paul R.,3,447,069.

Malme, Charles I.; and Watters, Bill G., to Bolt, Beranek and Newman, Inc. Method of and apparatus for reducing the bubble pulse from underwater explosions and pressure impulses. 3,454,127, 7-8-69, Cl. 181-0.5

Malmedie & Co. Maschinenfabrik G.m.b.H.: *See*—
Dittrich, Gunter N., 3,443,607.
Faymonville, Ernst, 3,452,582.

Malmer, Clarence John; and Grassl, Ferdinand O. Hand cleaning composition. 3,477,951, 11-11-69, Cl. 252-106.

Malmquist, Lars, to Aktiebolaget Svenska Flaktfabriken. Method and an apparatus for the drying of wood in a channel. 3,434,222, 3-25-69, Cl. 34-16.5

Malmquist, Lars, to Aktiebolaget Svenska Flaktfabriken. Apparatus for the circulation of gaseous medium through a drying channel. 3,445,939, 5-27-69, Cl. 34-223.

Malmquist, Lars, to Aktiebolaget Svenska Flaktfabriken. Method and an apparatus for drying wood. 3,456,356, 7-22-69, Cl. 34-1.

Malmrose, John P.; and Peterson, Bulow A. Kewanee Mfg. Co. Tilting sash with sliding panel. 3,468,059, 9-23-69, Cl. 49-164.

Malmstrom Chemical Corp.: *See*—
Russell, Kenneth L., 3,431,207.

Malmstrom, Rolf Einar; Tanner, Heikki; and Saari, Matti, to Outokumpu Oy. Method in connection with roasting, especially with sulphatizing or chloridizing roasting. 3,451,804, 6-24-69, Cl. 75-7.

Malmstrom, Rolf: *See*—
Bryk, Petri; Honkasalo, Jorma B.; Malmstrom, Rolf; Aaltonen, Olavi; and Palperi, Matti,3,460,491.

Malnar, Leon, to CSF-Compagnie Generale de Telegraphie Sans Fil. quantum optical detection systems with two alkali resonance cells. 3,422,344, 1-14-69, Cl. 324-5.

Malolepsy, Richard G.: *See*—
Alexander, Thomas W.; Malolepsy, Richard G.; and Jakso, Sandor,3,481,171.

Malomuzh, Vladimir Grigorievich: *See*—
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.

Malone, Alvis L., III: *See*—
Penner, Siegfried E.; and Malone, Alvis L., III,3,476,792.

Malone, Billy C., to Lynes, Inc. Apparatus relating to fabrication and installation of expanded members. 3,477,506, 11-11-69, Cl. 166-207.

Malone, Carl E., to AFA Corporation of Florida, The. Liquid spraying device. 3,471,065, 10-7-69, Cl. 222-321.

Malone, Frank Leslie, to Boeing Company, The. Variable orifice nozzle mixing ejector. 3,441,045, 4-29-69, Cl. 137-114.

Malone, James J., Jr.: *See*—
Funk, Smith A.; Klasen, Charles J.; and Malone, James J., Jr.,3,483,664.

Malone, Robert Lee, to Ex-Cell-O Corporation. Record reader. 3,444,358, 5-13-69, Cl. 235-61.11

Maloney, Daniel Edwin: *See*—
Blatz, Philip Strubing; and Maloney, Daniel Edwin,3,441,545.
Blatz, Philip Strubing; and Maloney, Daniel Edwin,3,457,328.

Maloney, Daniel Edwin, du Pont de Nemours, E. I., and Company. Polyolefin compositions. 3,422,055, 1-14-69, Cl. 260-41.

Maloney, Daniel Edwin, to Du Pont de Nemours, E. I., and Company. Oxetane copolymers. 3,440,231, 4-22-69, Cl. 260-80.8

Maloney, David L., to Sunbeam Corporation. Electric rotary lawnmower. 3,456,430, 7-22-69, Cl. 56-25.4

Maloney, Frederick W. E. Stitch extractor. 3,454,973, 7-15-69, Cl. 12-103.

Maloney, Gerald C.; and Bassett, Robert E., to Vitro Corporation of America. Balloon launching system and method. 3,452,949, 7-1-69, Cl. 244-31.

Maloney, Jim N., Jr.; Campbell, Charles R.; and Johnson, Robert, to Monsanto Company. Electrolytic apparatus and process for removing trace metals. 3,457,152, 7-22-69, Cl. 204-131.

Maloney, John P., to World Engines, Inc. Molded clevis. 3,482,862, 12-9-69, Cl. 287-100.

Maloney, Joseph, to Steelcraft Manufacturing Company, The. Method of assembling door members. 3,426,418, 2-11-69, Cl. 29-407.

Maloney, Lawrence G.: *See*—
Slagley, William E.; and Maloney, Lawrence G.,3,454,267.

Maloney, Richard P., to Sun Oil Company. Gelled liquid hydrocarbon fuels containing cross- linked atactic propylene polymers. 3,437,462, 4-8-69, Cl. 44-7.

Maloney, Richard P., to Sun Oil Company. Gelling normally liquid volatile hydrocarbons with atactic propylene-ethylene copolymers. 3,437,464, 4-8-69, Cl. 44-7.

Maloney, Richard P.; and McCorquodale, Wilmer E., Jr., to Sun Oil Company. Gelled liquid hydrocarbon fuels containing atactic propylene polymers and treated bentonite clay. 3,437,463, 4-8-69, Cl. 44-7.

Maloney, Thomas C., to Burroughs Corporation. Electronic indicator tube having primary characters and auxiliary characters. 3,466,486, 9v9-69, Cl. 313-109.5

Maloney, Walter H. Retractable curb feeler. 3,440,605, 4-22-69, Cl. 340-61.

Malott, Raymond A., to Shell Oil Company. Drill collars. 3,431,950, 3-11-69, Cl. 138-177.

Malouf, Emil E.: *See*—
Spedden, Henry Rush; and Malouf, Emil E.,3,476,554.

Malow, Monroe: *See*—
Yildirim, Uyanik; Malow, Monroe; Lourie, Cary H.; and Evans, Barry,3,429,939.

Malpas, Charles Henry. Containers. 3,448,889, 6-10-69, Cl. 220-63.

Malpas, Charles Henry. Bulk containers for liquids. 3,474,933, 10-28-69, Cl. 222-90.

Malsbary Manufacturing Company: *See*—
Pritchard, Clarence L., 3,459,203.
Pritchard, Clarence L.; and Telford, Carlyle O., 3,467,016.

Maltabar, Vasily Markovich; Uljankin, Makhail Georgievich; and Andreev, Vladislav Vladimirovich, to Moldavsky Nauchno-Issledovatelsky Institute Pishchevoi Promyshlennosti. Method of distilling wine to produce brandy spirit. 3,460,949, 8-12-69, Cl. 99-34.

Maltais, Frederick Jean; and Beck, Richard Lee, to AMP Incorporated. Brake system signaling device. 3,475,573, 10-28-69, Cl. 200-82.

Maltarp, Robert K., to Canadian General Electric Company Limited. Coaxial handle arrangement. 3,423,103, 1-21-69, Cl. 280-47.37

Maltby, Jack, to Davy and United Engineering Company Limited. Mill guides. 3,461,707, 8-19-69, Cl. 72-250.

Maltby, Peter John: *See*—
Westbury, Roy; and Maltby, Peter John,3,461,778.

Maltby, Robert E., Jr.: *See*—
McCown, William E.; Maltby, Robert E., Jr.; and Allen, Carey M.,3,479,172.

Maltenfort, Martin S., to Koppers Company, Inc., mesne. Lubricating composition for comprising oleic acid and oleyl acid phosphate polyester resins. 3,438,919, 4-15-69, Cl. 260-22.

Malter, Lewis: *See*—
Staunton, John J. J.; Malter, Lewis; Gleason, William J.; Malter, Lewis; Gleason, William J.; and Bull, Rame W.,3,428,432.
Staunton, John J. J.; Malter, Lewis; Gleason, William J.; Malter, Lewis; Gleason, William J.; and Bull, Rame W.,3,428,432.

Maltese, Roy O.Plasterer's darby. 3,454,975, 7-15-69, Cl. 15-235.4

Maltha, Pieter R. A.; and Tijssen, Stephanus B., to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Esters of 4,4-ditert.butylperoxypentanoic acid. 3,433,825, 3-18-69, Cl. 260-478.

Maltner, Heinrich, G.m.b.H.: *See*—
Dieterle, Horst, 3,427,117.

Maluzi, Joachim: *See*—
Klein, Kurt; and Maluzi, Joachim,3,484,368.

Malven, John H. Method of applying a medical splint. 3,442,265, 5-6-69, Cl. 128-90.

Malvin, Mark A. Ultrasonic wave generator. 3,466,017, 9-9-69, Cl. 259-114.

Maly, Neil A.: *See*—
Menapace, Henry R.; and Maly, Neil A.,3,446,862.
Menapace, Henry R.; Maly, Neil A.; Benner, Gereld S.; and Hillegass, Donald V.,3,446,861.

Malyk, Vladimir Avksentievich: *See*—
Kazantsev, Boris Afanasievich; Sitro, Igor Nikolaevich; Malyk, Vladimir Avksentievich; and Elyashev, Isaak Grigorievich,3,431,855.

Malz, Hugo; and Hermann, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Amido phosphorus-containing esters. 3,454,681, 7-8-69, Cl. 260-944.

Mamach, Harry E. Recorder construction. 3,454,954, 7-8-69, Cl. 346-50.

Mambourg, James E.; and McCown, William E., to Libbey-Owens-Ford Glass Company. Seal for glass furnace joints. 3,458,302, 7-29-69, Cl. 65-203.

Mambretti, Giancarlo. Inflatable boat. 3,453,671, 7-8-69, Cl. 9-11.

Mameniskis, Walter A.; and Washall, Thomas A., to Atlantic Richfield Company. Separation of alcohols from olefinic and paraffinic hydrocarbons. 3,485,879, 12-23-69, Cl. 260-643.

Mamiya Koki Kabushiki Kaisha: *See*—
Niigata, Shigeaki, 3,426,666.

Mammarella, Luigino. Aerosol cascade sampler. 3,482,432, 12-9-69, Cl. 73-28.

Mammel, Walter Kester, to Western Electric Company, Incorporated. Pickup device for supporting workpieces on a layer of fluid. 3,431,009, 3-4-69, Cl. 294-64.

Mammel, Walter K., to Western Electric Company, Incorporated. Pressurized fluid pickup device. 3,466,079, 9-9-69, Cl. 294-64.

Mammino, Joseph: *See*—
Martel, Robert W.; Weigl, John W.; and Mammino, Joseph,3,455,240.

Mamo, Anthony C., to Borg-Warner Corporation. Ground effect vehicle. 3,438,458, 4-15-69, Cl. 180-122.

Mamoulides, John M.: *See*—
Riley, Orey L.; and Mamoulides, John M.,3,420,301.

Mamrose, Wesley: *See*—
Merola, Carl R.; and Mamrose, Wesley,3,440,952.

Mamzic, Charles L., to Moore Products Co. Pneumatic control apparatus. 3,454,044, 7-8-69, Cl. 137-594.

Man, Henry H., to Trans-Continental Engineering Corporation. Window unit with roll-type slats. 3,454,073, 7-8-69, Cl. 160-107.

Man, Marinela: *See*—
Moldovan, Iuliu; and Man, Marinela,3,466,141.

M.A.N. Tubro G.m.b.H.: *See*—
Riemerschmid, Fritz, 3,454,241.

M.A.N. Turbo G.m.b.H.: *See*—
Leibach, Heinrich; and Vedova, Ralph, 3,434,289.
Scholz, Norbert, 3,462,948.
Teichmann, Heinrich, 3,429,339.
Wildner, Walter, 3,441,220.

Man-Sew Corporation: *See*—
Sigoda, Victor J., 3,478,451.

Manabe, Kuniyoshi: *See*—
Nakaguchi, Kohei; Arai, Hirokazu; Kondo, Nakataro; and Manabe, Kuniyoshi,3,465,035.

Manabe, Mitsuyoshi: *See*—
Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Masao; Manabe, Mitsuyoshi; and Kondo, Shigekatsu,3,438,868.

Manaka, Kazuo; and Kurihara, Shinpei, to Tokyo Shibaura Electric Co., Ltd. Method of preparing decorative stainless steel laminate. 3,475,240, 10-28-69, Cl. 156-3.

Manami, Masahiro: *See*—
Murakami, Zenzi; Ishikura, Morizo; and Manami, Masahiro,3,440,689.

Manara, Giovanni: *See*—
Notari, Bruno; and Manara, Giovanni,3,424,697.

Manasevit, Harold M., to North American Rockwell Corporation. Single crystal silicon on chrysoberyl. 3,475,209, 10-28-69, Cl. 117-201.

Manatos, Andrew E. Tear gas palm pistol. 3,443,333, 5-13-69, Cl. 42-1.

Manber, Solomon, to Alphanumeric, Incorporated. Pattern generator. 3,471,848, 10-7-69, Cl. 340-324.

Manber, Solomon. Alphanumeric Incorporated Pattern generator. 3,480,943, 11-25-69, Cl. 340-324.

Mancar-Trust: *See*—
Meyer, Eugen; and Singer, Eduard, 3,455,765.
Wesch, Ludwig, 3,458,219.
Wesch, Ludwig, 3,461,094.

Mancari, Joseph J.: *See*—
Glick, Merton; and Mancari, Joseph J.,3,453,924.

Mancebo, Lloyd, to United States of America, Atomic Energy Commission. Tubular vapor source. 3,454,814, 7-8-69, Cl. 313-305.

Mancera, Octavio: *See*—
Ringold, Howard J.; Bowers, Albert; Rosenkranz, George; and Mancera, Octavio,3,438,978.

Manchester Hosiery Mills: *See*—
Wilcher, Abrasha, 3,461,694.

Manchester, Kenneth E., to Sprague Electric Company. Ion implantation to form conductive contact. 3,481,776, 12-2-69, Cl. 117-212.

Mancini, Franco: *See*—
Sciaky, Roberto; and Mancini, Franco,3,446,823.

Manco Manufacturing Co.: *See*—
Valente, Raymond L., 3,453,852.

Mancusi, Joseph J., Jr. Pressure-balanced swivel pipe coupling. 3,454,288, 7-8-69, Cl. 285-98.

Mancuso, Emanuel. Sectional billiard cue with easy detachment feature. 3,462,147, 8-19-69, Cl. 273-68.

Mandalakas, John N., to Westinghouse Electric Corporation. Temperature compensated solar cell light sensor. 3,480,781, 11-25-69, Cl. 250-209.

Mandelberg, Hirsch I. Double monochromator. 3,472,596, 10-14-69, Cl. 356-101.

Mandelik, Bernard G.: *See*—
Bostwick, Louis E.; and Mandelik, Bernard G.,3,432,264.

Mandelkorn, Joseph, to United States of America, National Aeronautics and Space Administration. Silicon solar cell with cover glass bonded to cell by metal pattern. 3,472,698, 10-14-69, Cl. 136-89.

Mandelkorn, Joseph; and Broder, Jacob, to United States of America, National Aeronautics and Space Administration. Method of making electrical contact on silicon solar cell and resultant product. 3,434,885, 3-25-69, Cl. 136-89.

Mandell, Harry Creston, Jr.: *See*—
Huber, Ludwig Konrad; and Mandell, Harry Creston, Jr.,3,431,088.

Mandell, Harry Creston, Jr.; and Roth, Edwin S., to Pennsalt Chemicals Corporation. Polymer coating removal process. 3,432,347, 3-11-69, Cl. 134-38.

Manders, Godefridus Johannes, to U.S. Philips Corporation. Multiple magnetic head providing uniform bearing surface detrition. 3,453,398, 7-1-69, Cl. 179-100.2

Manderveld, Elise Berlier. Device for curling, waving or setting hair. 3,459,200, 85-69, Cl. 132-43.
Mandeville, Charles R.: *See—*
Lamb, Kay R.; and Mandeville, Charles R.,3,464,435.
Mandil, Harry I.: *See—*
Weems, Sterling J.; Hinds, John A.; and Mandil, Harry I.,3,423,286.
Mandjakov, Stefan Petrov: *See—*
Slavov, Ivan Atanassov; Daskalov, Kiril Dimitrov; Ganev, Petar Levtchev; Mandjakov, Stefan Petrov; and Barzakov, Petko Ivanov,3,435,669.
Mandock, Richard F.; and Plambeck, Ronald F., to Protection Controls, Inc. Flame monitoring circuit. 3,437,884, 4-8-69, Cl. 317-148.5
Mandonas, Nicholas J.; and Smith, Norman F., to Western Electric Company, Incorporated. Apparatus for helixing and sorting filmed resistors. 3,444,782, 5-20-69, Cl. 90-11.64
Mandrel Industries, Inc.: *See—*
Adornetto, Anthony J.; and Fox, Leslie L., 3,473,079.
Evans, John S., Jr., 3,425,506.
Evans, John S., Jr.; and McGhee, James E., 3,451,523.
Locheed, Edward W., Jr.; and Sheffield, Herman E., 3,464,022.
Porter, James A., Jr., 3,437,991.
Stapleton, Fred E.; and Buescher, James E., 3,434,104.
Mandt, Arne: *See—*
Laurell, Lars G.; and Mandt, Arne,3,487,455.
Mandy, Robert R.; and Kibler, Willis L., to McCord Corporation, mesne. Vehicle headlight clearing system. 3,456,278, 7-22-69, Cl. 15-250.02
Manecke, Siegfried E. Thermostatic control device and parts therefor. 3,428,932, 2-18-69, Cl. 337-348.
Manecke, Siegfried E. Thermostatic control system for water heater tanks or the like. 3,435,189, 3-25-69, Cl. 219-321.
Manegold, Jost-Henrich: *See—*
Sommer, Erwin; Manegold, Jost-Henrich; and Schulze, Helmut,3,483,167.
Manelick, James M.: *See—*
Bowles, Arnold G.; and Manelick, James M.,3,477,096.
Maner, William S., to Viewall Television Products Corporation. Dipole antenna array having equally spaced dipoles of decreasing lengths. 3,482,250, 12-2-69, Cl. 343-766.
Manes, Robert J.: *See—*
Leonard, Merrill G.; and Manes, Robert J.,3,461,259.
Maness, John F. Valve lifter pulling means. 3,479,722, 11-25-69, Cl. 29-213.
Manetta, Sam. Packaging device. 3,445,985, 5-27-69, Cl. 53-124.
Manevy, Georges, to Commissariat a l'Energie Atomique.Selective reduction of PuF_6. 3,450,509, 6-17-69, Cl. 23-344.
Manfre, Ben L., to FMC Corporation. Vine crop harvesting machine. 3,469,383, 9-30-69, Cl. 56-327.
Manfredi, Dario; and Raiti, Angelo. Space vehicle and launching means therefor. 3,437,285, 4-8-69, Cl. 244-1.
Manfredonia, Mario; and Wilcox, Edward D., Jr., to Union Camp Corporation. Automatic bag opener. 3,430,409, 3-4-69, Cl. 53-3.
Mangan, Edmund L., to Bethlehem Steel Corporation. Strip thickness profile gage. 3,440,738, 4-29-69, Cl. 33-174.
Mangan, Edmund L., to Bethlehem Steel Corporation. Noncontacting gauges for automatically measuring the profile of moving strip. 3,474,668, 10-28-69, Cl. 73-159.
Mangan, Edmund L., to Bethlehem Steel Corporation. Temperature and composition compensator for radiation thickness gauges. 3,482,098, 12-2-69, Cl. 250-83.3
Mangan, Richard E.; and Beeson, William Law. Collapsible shelf for use with a railing or the like. 3,433,443, 3-18-69, Cl. 248-214.
Manganaro, Carl R.: *See—*
Crist, Joseph G.; Manganaro, Carl R.; and Nagle, Elliott V.,3,455,852.
Manganello, Samuel J.: *See—*
Kennedy, George E.; and Manganello, Samuel J.,3,475,812.
Mangas, Walter E. Spring loaded chuck key. 3,457,813, 7-29-69, Cl. 81-90.
Mangel, John J., to Dart Industries Inc. Aerosol dispenser actuated by propellant pressure. 3,477,613, 11-11-69, Cl. 222-70.
Mangelsdorf, Robert C.: *See—*
Amadon, Roger M.; Crawford, Leo L.; and Mangelsdorf, Robert C.,3,452,862.
Mangeney, Gerard Leon Alphonse: *See—*
Pechmeze, Jacques Pierre Edmond; and Mangeney, Gerard Leon Alphonse,3,454,420.
Manger, Charles Frederick; Klee, John Michael; and Carter, Richard James, to Bentley Engineering Company Limited, The. Fabric drawoff from knitting machines. 3,442,100, 5-6-69, Cl. 66-153.
Manghirmalani, Arjan T.: *See—*
Aser, Gilbert A.; Figler, Robert H.; Manghirmalani, Arjan T.; and Redding, Thomas P.,3,435,500.
Manghirmalani, Arjan T.; Trabold, Andrew F.; and Figler, Robert H., to Xerox Corporation. Heated fuser roll. 3,437,032, 4-8-69, Cl. 100-93.
Mangiapane, Rosario: *See—*
Sheldon, Edward J.; Mangiapane, Rosario; and Segarra, Edwin,3,484,785.
Mangin, Jean Paul, to CSF-Compagnie Generale de Telegraphie Sans Fil. Gas laser device for producing radiation in the 40-micron band. 3,439,288, 4-15-69, Cl. 331-94.5
Mangin, Jean Paul: *See—*
Soffer, Jacques; and Mangin, Jean Paul,3,454,818.
Mangin, Jean-Paul: *See—*
Leboutet, Hubert; and Mangin, Jean-Paul,3,482,139.
Mangini, Angelo; Mazzanti, Germana; and Tundo, Antonio, to Aziende Colori Nazionali Affini ACNA S.p.A. Triazine containing azo dyestuffs. 3,454,551, 7-8-69, Cl. 260-153.
Mangis, Rex L. Golf practice apparatus. 3,458,203, 7-29-69, Cl. 273-194.
Mangnall, Derek: *See—*
Tilney, Richard; Netherstreet, Jack H.; Mangnall, Derek; and Jones, Samuel H.,3,486,483.
Mango, Frank D., to Shell Oil Company. Olefin production. 3,424,811, 1-28-69, Cl. 260-680.
Mango, Frank D.; and Newey, Herbert A., to Shell Oil Company. Novel epoxides and cured polymer compositions obtained therefrom. 3,476,693, 11-4-69, Cl. 260-2.
Mango, Frank D.: *See—*
Dvoretzky, Isaac; and Mango, Frank D.,3,448,167.
Shaw, Alfred W.; Wilcoxen, Charles H., Jr.; and Mango, Frank D.,3,427,364.
Mangold, Donald J.: *See—*
Ager, John W., Jr.; Heying, Theodore L.; and Mangold, Donald J.,3,463,820.
Mangold, Robert T.: *See—*
Cloyd, Harold S.; Bernhardt, Charles A.; and Mangold, Robert T.,3,443,722.
Mangold, William F.: *See—*
Wooton, Thomas C.; Mangold, William F.; and Davis, Warren L.,3,442,788.
Mangood Corporation: *See—*
Mayerl, Michael C., 3,428,787.
Mangum, Grafton F.; and Whelchel, Carl J., to Thiokol Chemical Corporation. Liner configuration for solid propellant rocket motors. 3,426,528, 2-11-69, Cl. 60-39.47
Manhattan Terrazzo Brass Strip Co., Inc.: *See—*
Petzschke, Erich W., 3,438,231.
Manias, Theodore Emmanuel, to Robertson, H. H., Company. Insulated metal wall structure. 3,474,583, 10-28-69, Cl. 52-302.
Maniero, Daniel A.: *See—*
Hirayama, Chikara; and Maniero, Daniel A.,3,460,902.
Kemeny, George A.; Franzen, Wayne E.; Maniero, Daniel A.; and Bruning, Armin M.,3,474,279.
Manikowski, Donald M.: *See—*
Andes, Ralph V.; and Manikowski, Donald M.,3,454,414.
Manini, Benito. Transverse interrupted slitting apparatus for continuously moving plastic film. 3,456,540, 7-22-69, Cl. 83-319.
Manion, Jean P., to Allis-Chalmers Manufacturing Company. H_2O_2 fuel cell and method of producing electrical energy. 3,446,673, 5-27-69, Cl. 136-86.
Manion, Jean P.; Philosophos, John A.; and Robinson, Marquis B., to Allis-Chalmers Manufacturing Company. Process for preparing CF_4 and $CClF_3$ in an electrical discharge. 3,485,735, 12-23-69, Cl. 204-169.
Maniquis, Angelina A.: *See—*
Joseph, Guy G.; Teverbaugh, Robert K.; and Maniquis, Angelina A.,3,476,292.
Manitowoc Co., Inc., The: *See—*
Van Steenburgh, Leon R., Jr., 3,449,920.
Manitowoc Company, Inc., The: *See—*
Beduhn, Daniel E., 3,485,383.
Bender, Erwin L.; and Swanson, Richard H., 3,479,971.
Dedricks, Alvin N.; and Mueller, Lester A., 3,430,452.
Manjikian, Serop: *See—*
Bennett, Albert L.; and Manjikian, Serop,3,442,995.
Clark, George B.; and Manjikian, Serop,3,430,770.
Manjikian, Serop, to Universal Water Corporation. Production of semipermeable membranes. 3,483,282, 12-9-69, Cl. 264-41.
Manjikian, Serop; and Maurer, Michael D. Reverse osmosis module. 3,485,374, 12-23-69, Cl. 210-321.
Mankarious, Ramzy G., to Hughes Aircraft Company. Photon coupler having radially-disposed, serially connected diodes arranged as segments of a circle. 3,480,783, 11-25-69, Cl. 250-211.
Manke, Raymond F., to Case, J. I., Company. Drive mechanism. 3,440,739, 4-29-69, Cl. 37-43.
Mankin, Paul A., to Wood, John, Company. Seal means for electrical conduit. 3,426,947, 2-11-69, Cl. 222-385.
Mankin, Robert S.: *See—*
Kusel, Edward J.; and Mankin, Robert S.,3,433,460.
Mankowich, Abraham, to United States of America, Army. Composition and method for detergency of asphalt soil. 3,462,369, 8-19-69, Cl. 252-138.
Mankowich, Abraham, to United States of America, Army. Alkaline detergent composition. 3,484,379, 12-16-69, Cl. 252-137.

Manktelow, Anthony John: *See—*
Endacott, John Derrick; and Manktelow, Anthony John,3,461,219.
Manley, Brian William, to U.S. Philips Corporation, mesne. Light shutter system utilizing an image intensifier tube. 3,457,451, 7-22-69, Cl. 315-14.
Manley, Brian William; and Adams, John, to U.S. Philips Corporation, mesne. Image intensifier with channel secondary emission electron multiplier having tilted channels. 3,487,258, 12-30-69, Cl. 315-11.
Manley, Harold J., to United States of America, Air Force. Discontinuous forward automatic gain control. 3,431,497, 3-4-69, Cl. 325-326.
Manley, John C., to Corning Glass Works. Method of making an electrical component. 3,452,432, 7-1-69, Cl. 29-621.
Manley, Russell E. Sand compositions. 3,429,719, 2-25-69, Cl. 106-38.3
Manlove, Alliott, & Co., Limited: *See—*
Scoffield, Eric George; and Love, David Christopher, 3,479,131.
Taylor, Ernest, 3,442,036.
Manly, Ron. Automatic signal reader using color separation. 3,426,324, 2-4-69, Cl. 340-146.3
Manly, Tomas D., to Laporte Chemicals Limited. Peroxy compounds. 3,428,689, 2-18-69, Cl. 260-610.
Manmo, Shiro: *See—*
Nakamura, Hiroshi; Manmo, Shiro; Ishizaki, Yasutaro; Saito, Tokuji; and Kato, Kin,3,473,288.
Mann, Abe: *See—*
Stern, David M.; Mann, Abe; and Ogle, James A.,3,467,775.
Mann, Alex, deceased0 (by Mann, Billyea; executrix), to General Tire & Rubber Company, The. Process for producing fenestrated plastic sheet. 3,455,756, 7-15-69, Cl. 156-209.
Mann, Alfred E., to Textron Electronics, Inc., mesne. Solar cell with wrap-around electrodes. 3,450,568, 6-17-69, Cl. 136-89.
Mann, Billyea: *See—*
Mann, Alex,3,455,756.
Mann, Charles J. Chuck construction. 3,437,342, 4-8-69, Cl. 279--002
Mann, Charles R. Bag construction with closure carrier. 3,442,437, 5-6-69, Cl. 229-54.
Mann, Egon: *See—*
Winter, August; and Mann, Egon,3,442,346.
Winter, August; Mann, Egon; Pfeiffer, Willi; and Arnegger, Wilhelm,3,433,087.
Mann, Fred A., Jr. Floor mat. 3,435,480, 4-1-69, Cl. 15-215.
Mann, Fred A., Jr. Rug rolling device. 3,474,980, 10-28-69, Cl. 242-67.1
Mann, Frederick W. Adjustable stilts. 3,441,272, 4-29-69, Cl. 272-70.1
Mann, George B.; and Tonner, Richard C., to Sylvania Electric Products, Inc. Method of electrically testing semiconductor elements retained under a pressure drawn film. 3,473,124, 10-14-69, Cl. 324-158.
Mann, Henry, to Bell Telephone Laboratories, Incorporated. Pulse corrector. 3,426,159, 2-4-69, Cl. 179-84.
Mann, John E.; and Walker, Perrin, to TRW Semiconductors, Inc. Dislocation enhancement control of silicon by introduction of large diameter atomic metals. 3,485,684, 12-23-69, Cl. 148-187.
Mann, John Raymond: *See—*
Baker, Lionel Richard; Bertoya, Hastings Charles Maxim; Mann, John Raymond; and Whyte, James Norwood,3,436,154.
Mann, Joseph K., to Varian Associates. High power microwave matching structure employing two sets of cumulatively reinforcing spaced wave reflective elements. 3,471,810, 10-7-69, Cl. 333-33.
Mann, Leonard J.; and Williamitis, Victor A., to General Motors Corporation. Rotating spindle ice maker. 3,482,413, 12-9-69, Cl. 62-68.
Mann Mobel-und Einrichtungshauser KG: *See—*
Fuhrmann, Karl H., 3,462,166.
Mann, Morley. Apparatus for forming coils. 3,430,474, 3-4-69, Cl. 72-135.
Mann, Owen A.: *See—*
Wahl, Franklin W., 3,445,954.
Mann, Philip. Shorts construction. 3,459,181, 8-5-69, Cl. 128-159.
Mann, Robert John, to International Standard Electric Corporation. Electrical pulse bootstrap circuit. 3,482,134, 12-2-69, Cl. 307-237.
Mann, Roger H., to Shell Oil Company. Chloral treatment of conjugated diene block copolymers. 3,458,600, 7-29-69, Cl. 260-879.
Mann, Roger H.; and Bailey, Joseph T. Shell Oil Company Terminal sulfonate polymers, latices thereof and method of preparation. 3,471,431, 10-7-69, Cl. 260-29.7
Mann, Walter: *See—*
Schaefer, Gerhard; Suter, Hubert; Wirth, Friedrich; and Mann, Walter,3,420,750.
Mann, William C., to Westinghouse Electric Corporation. Electrochemical integrator device. 3,427,539, 2-11-69, Cl. 324-94.
Mann, William C.; and Hayden, Leland E., to Westinghouse Electric Corporation. Bistable magnetic decision summing device. 3,443,116, 5-6-69, Cl. 307-88.
Mann, William C.: *See—*
Jensen, Paul A.; and Mann, William C.,3,451,042.
Manne, Moe. Expandible ring with means biasing it to contracted position. 3,423,956, 1-28-69, Cl. 63-15.45
Manne, Richard S., to Esso Research and Engineering Company. Isoparaffinic jet fuel. 3,420,769, 1-7-69, Cl. 208-66.
Mannesmann Aktiengesellschaft: *See—*
Bayer, Walter, 3,425,254.
Frohlich, Josef, 3,442,535.
Frohlich, Josef, 3,468,564.
Kobusch, Helmut; Grune, Johannes; and Pfeiffer, Arnold, 3,459,209.
Landgraf, Helmut; and Vogt, Gerd, 3,464,485.
Ledune, Jacques; and Nilles, Gaul, 3,476,550.
Naeser, Gerhard; Wessel, Otto; and Darschewski, Kurt, 3,433,049.
Pfenning, Emil, 3,473,601.
Schrewe, Hans, 3,429,365.
Schrewe, Hans, 3,433,289.
Stephan, Karl, 3,445,627.
Strohschein, Manfred; Glaser, Josef; and Kurth, Hans, 3,439,736.
Mannesmann-Meer Aktiengesellschaft: *See—*
Gruber, Kurt, 3,464,248.
Schmitt, Paul; and Hien, Manfred, 3,472,054.
vom Dorp, Walter; and Eversberg, Hans, 3,456,475.
Mannheimer, Hans S. Carboxylate salts of certain substituted imidazolines. 3,452,042, 6-24-69, Cl. 260-309.6
Mannheimer, Hans S. Sulfate or sulfonate amphoteric amine salts. 3,452,065, 6-24-69, Cl. 260-401.
Mannheimer, Hans S. Amido carboxylic acid salts of amines. 3,452,066, 6-24-69, Cl. 260-401.
Manning, Arnold J., to Sweetland, William E. Fur fletched arrows. 3,428,321, 2-18-69, Cl. 273-106.5
Manning, David T.; and Sousa, Anthony A., to Union Carbide Corporation. Nematocidal method and composition containing 2-dihalomethylbenzothiazoles. 3,472,935, 10-14-69, Cl. 424-270.
Manning, Donald L., to General Motors Corporation. Auxiliary road wheel assembly. 3,477,738, 11-11-69, Cl. 280-124.
Manning, George C.: *See—*
Warrington, Henry G.; and Manning, George C.,3,444,937.
Manning, Harold E., to Petro-Tex Chemical Corporation. Butene-2 isomerization. 3,475,511, 10-28-69, Cl. 260-683.2
Manning, Harry F., to Talon, Inc. Flange lock slider for filament slide fasteners. 3,449,803, 6-17-69, Cl. 24-205.14
Manning, Henry P.; and Musser, C Walton. Missiles and gun barrels for eliminating sabots therefrom. 3,427,648, 2-11-69, Cl. 102-93.
Manning, John Alfred, to Penn Machinery Company. Indexing mechanism. 3,438,233, 4-15-69, Cl. 72-219.
Manning, Joseph P.: *See—*
Coleman, William L.; and Manning, Joseph P.,3,461,025.
Manning, Loran E., to Goodyear Tire & Rubber Company, The. Hose. 3,446,247, 5-27-69, Cl. 138-119.
Manning, Robert E., to Sandoz Inc. Pyrimido thiadiazines. 3,478,023, 11-11-69, Cl. 260-243.
Manning, Robert E.: *See—*
Frey, Albert J.; and Manning, Robert E.,3,467,662.
Frey, Albert J.; Houlihan, William J.; and Manning, Robert E.,3,457,268.
Houlihan, William J.; and Manning, Robert E.,3,478,051.
Houlihan, William J.; Manning, Robert E.; and Theuer, William S.,3,435,034.
Manning, Shannon L., to Hallmark Cards, Incorporated. Gift wrapping ensemble and holder therefor. 3,441,127, 4-29-69, Cl. 206-47.
Manning, Wallace F.: *See—*
Lyons, Delbert T.; and Manning, Wallace F.,3,422,556.
Manning, Wilbur M. Aerosol container dispensing attachment. 3,459,342, 8-5-69, Cl. 222-402.13
Manning, William F., to Mobil Oil Corporation. Underwater completion. 3,421,579, 1-14-69, Cl. 166-0.5
Manning, William F., to Mobil Oil Corporation. Telescoped caisson. 3,426,859, 2-11-69, Cl. 175-9.
Manning, William F., to Mobil Oil Corporation. Pipe laying method. 3,434,295, 3-25-69, Cl. 61-72.3
Manning, William F., to Mobil Oil Corporation. Offloading moored production storage unit. 3,434,442, 3-25-69, Cl. 114-0.5
Manning, William F., to Mobil Oil Corporation. Ballistic jacket-pile connection. 3,471,174, 10-7-69, Cl. 285-18.
Manning, William F., to Mobil Oil Corporation. Apparatus and method for transporting fluids between a submerged storage tank and a floating vessel. 3,479,673, 11-25-69, Cl. 9-8.
Manning, William F., to Mobil Oil Corporation. Telescoped caisson. 3,482,408, 12-9-69, Cl. 61-46.
Manning, William J.: *See—*
Fischer, Jack N.; and Manning, William J.,3,424,132.
Mannings, Alan I.: *See—*
Finn, Bernard J.; and Mannings, Alan I.,3,482,832.
Mannington Mills: *See—*
Tuthill, Jay D.; Kulka, Nicholas; and Arban, Bert S., 3,428,471.
Mannix International Inc.: *See—*
Peppin, Richard A.; and Fekete, Stephen I., 3,436,848.

Manno, James J. Apparatus for flushing debris from the region of a vehicle brake. 3,447,966, 6-3-69, Cl. 134-22.

Mano, Fumiyoshi: *See—*
Yamada, Masakazu; Komota, Hayashi; and Mano, Fumiyoshi,3,449,128.

Manock, Geoffrey Windle. Woven stretch fabric having yarn crimp superimposed on filament crimp and method of making same. 3,479,245, 11-18-69, Cl. 161-77.

Manoogian, Alex, to Masco Corporation. Mixing valve. 3,422,849, 1-21-69, Cl. 137-625.41

Manoogian, Dickran: *See—*
Minardi, Oresto A.; and Manoogian, Dickran,3,463,407.

Manor, Eli. Optical range indicating system. 3,475,098, 10-28-69, Cl. 356-4.

Manor, Felix. Process for treating cotton material to increase elasticity and elastic recovery. 3,441,471, 4-29-69, Cl. 162-90.

Manor, Paul A.: *See—*
Colby, Joseph M.; Manor, Paul A.; and Kania, Gustav,3,460,802.

Manos, Philip: *See—*
Kissa, Erik; Manos, Philip; and Wahlig, Charles F.,3,453,038.

Manos, Philip, to Du Pont de Nemours, E. I., and Company. Electrochromic device. 3,451,741, 6-24-69, Cl. 350-160.

Manos, Philip, to Du Pont de Nemours, E. I., and Company. Coapplication of softeners with an acid halide containing polymeric shrink-proofing agent to textile fibers. 3,457,213, 7-22-69, Cl. 260-33.4

Manotas, Avelino L.: *See—*
Manotas, Dagmar H.; and Manotas, Avelino L.,3,419,973.

Manotas, Dagmar H.; and Manotas, Avelino L. Mathematical teaching wheel. 3,419,973, 1-7-69, Cl. 35-31.

Manry, Andre: *See—*
Pouilloux, Jacques; and Manry, Andre,3,441,074.

Mansard, Bernard: *See—*
Klein, Jacques; and Mansard, Bernard,3,440,770.

Mansei Kogyo Kabushiki Kaisha: *See—*
Goto, Kenjiro, 3,425,783.
Goto, Kenjiro, 3,453,064.

Mansell, Henry J. Chuck construction. 3,472,524, 10-14-69, Cl. 279-2.

Mansfeld, Viktor; Hladovec, Josef; and Horakova, Zdenka, to Spofa Sdruzeni Podniku pro Zdravotnickou Vyrobu. Process of extracting proteins from potatoes. 3,461,205, 8-12-69, Cl. 424-195.

Mansfield, Donald L.; and Tappan, Peter C., to U.S.M. Corporation. Lubrication pumping system. 3,444,959, 5-20-69, Cl. 184-6.

Mansfield, Frank Richard, 33 1/3% to Patent Service Corporation of America. Game apparatus comprising consecutively numbered coasters for beverage receptacles. 3,486,753, 12-30-69, Cl. 273-137.

Mansfield, Richard C., to Rohm & Haas Company. Preparation of dialkylphenols. 3,420,896, 1-7-69, Cl. 260-624.

Mansfield Sanitary Inc.: *See—*
Fulton, Howard A.; Flinner, Vaughn D.; and Sprang, Richard W., 3,421,540.
Fulton, Howard A.; and Flinner, Vaughn D., 3,466,064.

Mansfield, Stanley J. Self-locking tubular containers. 3,429,500, 2-25-69, Cl. 229-62.

Mansfield, Vaughn, to Peabody Coal Company, mesne. Coke, tar, and clean coal gas producing method and apparatus. 3,434,931, 3-25-69, Cl. 201-27.

Mansfield, Vaughn, to Peabody Coal Company, mesne. Coke and heat producing method. 3,434,932, 3-25-69, Cl. 201-27.

Mansfield, Vaughn, to Peabody Coal Company, mesne. Method for producing high yield coke by downdrafting of hot gases. 3,434,933, 3-25-69, Cl. 201-32.

Mansfield, William Thomas, to Sylvania Electric Products, Inc. Electrical connector. 3,464,054, 8-26-69, Cl. 339-176.

Manship, Luther P.: *See—*
Turner, Charles R.; Myers, Walter E.; and Manship, Luther P.,3,425,016.

Manske, Wendell J.: *See—*
Colvin, Ronald L.; and Manske, Wendell J.,3,486,752.

Manson, Alan: *See—*
Illis, Alexander; and Manson, Alan,3,466,167.

Manson, Andrew John; and Phillips, Donald K., to Sterling Drug Inc. 15,16-Disubstituted aromatic steroids, intermediates and processes. 3,433,785, 3-18-69, Cl. 260-239.5

Manson, John A.; and Sorkin, Howard, to Air Reduction Company, Incorporated. Poly 2,2,2 trifluoroethyl vinyl ether containing electroluminescent phosphor particles. 3,461,075, 8-12-69, Cl. 252-301.3

Mansour, Momtaz Nosshi, to Unitek Corporation. Intermittent motion apparatus. 3,421,380, 1-14-69, Cl. 74-84.

Mansour, Momtaz Nosshi: *See—*
Laub, Joseph L.; and Mansour, Momtaz Nosshi,3,430,834.

Mansour, Tahir M., to Ford Motor Company. Method for inspecting objects having parallel faces. 3,427,110, 2-11-69, Cl. 356-239.

Mansur, Fred E.: *See—*
Francel, Josef; Jagodzinski, Robert F.; and Mansur, Fred E.,3,460,960.

Mantel, Edward R.; Vigor, Charles W.; and Iwankovitsch, Stephen W., to General Motors Corporation. Brazing method. 3,479,731, 11-25-69, Cl. 29-472.3

Mantelet, Jean, to Moulinex, Societe Anonyme. Rotary blade domestic appliance. 3,461,933, 8-19-69, Cl. 146-68.

Mantell, Charles L.; and Ferment, George R., to Schools for Industrial Education of Newark, N. J., Administering Newark College of Engineering, Board of Trustees of, The. Electrowinning manganese. 3,455,799, 7-15-69, Cl. 204-105.

Mantell, Gerald J.; Helin, Arthur F.; and Wutz, Adolf A., to Gulf Oil Corporation. Ethylene-N-methylol acrylamideacrylic ester terpolymers as bonding agents for nonwoven fabrics. 3,459,698, 8-5-69, Cl. 260-29.4

Mantell, Gerald J.: *See—*
Smith, Wayne E.; Mantell, Gerald J.; and Chapin, Earl C.,3,449,277.

Mantell, Otto B. Suit hangers with double bar. 3,435,999, 4-1-69, Cl. 223-91.

Manterfield, Ralph, to Davy and United Engineering Company Limited. Walking beam apparatus. 3,451,532, 6-24-69, Cl. 198-219.

Mantle, Peter J., to General Dynamics Corporation. Multi-mode variable geometry surface effect ship. 3,481,297, 12-2-69, Cl. 114-67.

Mantle, Peter J.; and Hall, Arnold M., to General Dynamics Corporation. Multiple hull vehicle with air cushion support. 3,476,069, 11-4-69, Cl. 114-67.

M. A. N. Turbo GmbH: *See—*
Derbfuss, Wolfgang, 3,424,024.

Manuel, Ernesto H., to Continental Can Company, Inc. Method of forming a flexible organic layer on metal by a pulsed electrical abnormal glow discharge. 3,471,316, 10-7-69, Cl. 117-93.3

Manuel, Tom: *See—*
Hugel, Helmut; and Manuel, Tom,3,450,216.

Manufacture Belge d'Aiguilles S.A.:*See—*
Schneider, Joseph, 3,469,687.

Manufacture Belge de Lampes et de Materiel Electronique en abrege MBLE: *See—*
Schayes, Raymond; and Gourlet, Roger, 3,450,884.

Manufacture de Produits Pharmaceutiques a Christiaens Societe Anonyme: *See—*
de Ridder, Rene R., 3,466,274.

Manufacturers Engineering and Equipment Corporation: *See—*
Ketelsen, Peter, 3,464,271.

Manufactures J. R. Bottu: *See—*
Rohrbach, Philippe; and Blum, Jean, 3,485,924.

Manufactures Jean-Baptiste Martin, Jean Martin, Andre Charbin & Cie: *See—*
Perrier, Marius Antoine, 3,434,310.

Manus, George. Type bar actuator comprising sequentially operating electromagnetically acting devices. 3,452,850, 7-1-69, Cl. 197-14.

Manwaring, Joshua G. D., to Radio Frequency Co., Inc. Radio frequency heating apparatus. 3,461,263, 8-12-69, Cl. 219-10.81

Manz, August F., to Union Carbide Corporation. Work-in-circuit arc starting apparatus. 3,431,390, 3-4-69, Cl. 219-130.

Manz, August F.; Saenger, John F., Jr.; Freeman, Norman D.; and Stanchus, Frank T., to Union Carbide Corporation. Method for depositing metal with a tig arc. 3,483,354, 12-9-69, Cl. 219-137.

Manz, August F.; and Steinert, Thomas M., to Union Carbide Corporation. Multiarc torch energizing method and apparatus. 3,459,919, 8-5-69, Cl. 219-131.

Manzer, Marvin R.: *See—*
Schmitt, Donald E.; Manzer, Marvin R.; and Clay, Howard W.,3,460,663.

Manzi, John. Method for unclogging oil passageways of engines. 3,423,241, 1-21-69, Cl. 134-22.

Manzler, Maurice Leslie: *See—*
Fletcher, Charles Philip; Friedlander, Erich Siegfried; Manzler, Maurice Leslie; and Young, David John,3,450,981.

Manzo, Joseph F.: *See—*
Friedman, Samuel; Harris, Robert O.; Mauch, Erwin W.; Harris, James P.; and Manzo, Joseph F.,3,470,638.

Mao, Tzu J.: *See—*
Eldred, Roger J.; and Mao, Tzu J.,3,450,615.
Eldred, Roger J.; and Mao, Tzu Jen,3,473,949.

Mapes, Harold C.: *See—*
Fraboni, Henry J.; Mapes, Harold C.; and Mullin, Newell D.,3,438,647.

Mapham, Neville, to General Electric Company. Device for protecting electrical apparatus. 3,452,252, 6-24-69, Cl. 317-16.

Maple, Steven E.: *See—*
Tilbury, Lawrence E.; and Maple, Steven E.,3,480,085.

Maple, Telford Grant, to Raytheon Company. Semiconductor contact and interconnection structure. 3,445,727, 5-20-69, Cl. 317-107.

Maple, William E.: *See—*
Graab, Judson W.; Rosenblum, Louis; Maple, William E.; Dupraw, William A.; and Gahn, Randall F.,3,472,625.

Maples, Hoyt E.: *See—*
Strass, Herbert K.; and Maples, Hoyt E.,3,427,093.

Mapother, Thomas C., to General Electric Company. Semiconductor low voltage switch. 3,427,512, 2-11-69, Cl. 317-235.
Maps, Charles H., Jr.: *See—*
Klaiber, Gerhart; and Maps, Charles H., Jr.,3,450,849.
Mar-Lin Safety Devices, Inc.: *See—*
Becker, Harry W., 3,452,731.
Maradyn, Edward D., to Northern Engineering & Supply Co., Limited, The. Log handling machine. 3,457,971, 7-29-69, Cl. 143-48.
Maradyn, Edward D., to Northern Engineering & Supply Co., Limited, The. Load binding arrangement. 3,458,215, 7-29-69, Cl. 280-179.
Maranchak, Vasily Makarovich; Veisky, Stanislav Petrovich; and Krivenkov, Vladimirovich. Protective device high-voltage D.C. power transmission lines. 3,444,433, 5-13-69, Cl. 317-36.
Marancik, William G.: *See—*
Blanchard, Edward R.; and Marancik, William G.,3,428,501.
Marand, Jean, to Geigy Chemical Corporation. Integral plug valve assembly for dipenser of products in the fluid state. 3,451,596, 6-24-69, Cl. 222-193.
Marandi, Ali: *See—*
Hinz, Walter W.; and Marandi, Ali,3,454,032.
Marandi, Ali, to Clemar Manufacturing Corporation. Pilot operated valve. 3,439,895, 4-22-69, Cl. 251-30.
Marano, Herbert W., to Consolidated Cigar Corporation. Apparatus for forming rod of particulate material. 3,421,520, 1-14-69, Cl. 131-59.
Marano, Herbert W., to Flinchbaugh Products, Inc. Tape-mounted label dispensing and applying apparatus. 3,436,294, 4-1-69, Cl. 156-351.
Marans, Nelson S., to Grace, W. R., & Co. Chemical process. 3,424,638, 1-28-69, Cl. 156-272.
Marans, Nelson S.: *See—*
Werber, Frank X.; and Marans, Nelson S.,3,483,160.
Marantz Company, Inc.: *See—*
Marantz, Saul B., 3,431,884.
Marantz, Saul B., to Marantz Company, Inc. Tuning control for radio receivers. 3,431,884, 3-11-69, Cl. 116-124.1
Marasco, Harold E., to Marasco Shoe Machinery Company. Sole press. 3,475,776, 11-4-69, Cl. 12-36.8
Marasco, Joseph A. Refuse press. 3,438,322, 4-15-69, Cl. 100-233.
Marasco, Paul M.; and Hollis, Walter W., to United States of America, Army. Stadiametric rangefinder including a transversely movable lens. 3,459,478, 8-5-69, Cl. 356-22.
Marasco Shoe Machinery Company: *See—*
Marasco, Harold E., 3,475,776.
Marasco, Vincent. Vehicular toy capable of simulating a rearing horse. 3,427,037, 2-11-69, Cl. 280-1.189
Marasco, Vincent. Locking cap for bottles and the like. 3,447,709, 6-3-69, Cl. 215-9.
Marason, Gabriel, Jr.: *See—*
Baynes, William R.; Marason, Gabriel, Jr.; and Barcus, Jack L.,3,484,828.
Marateck, Harold: *See—*
Marateck, Jack M.; and Marateck, Harold,3,479,070.
Marateck, Jack M.; and Marateck, Harold. Structure formed of joined panels. 3,479,070, 11-18-69, Cl. 287-20.92
Marathon Electric Manufacturing Corporation: *See—*
Shankwitz, Harold J., 3,484,670.
Sleeter, Edward B., 3,457,870.
Marathon Engineering, Inc.: *See—*
Farin, William G., 3,425,477.
Marathon Oil Company: *See—*
Allphin, Nylen L., Jr., 3,445,530.
Allred, Victor D., 3,448,012.
Argabright, Perry A.; and Hall, David W., 3,427,322.
Argabright, Perry A., 3,451,969.
Argabright, Perry A.; Sinkey, Vernon J.; and Phillips, Brian L., 3,458,448.
Davis, John A., Jr., 3,460,622.
Davis, John A., Jr., 3,476,184.
De Puy, Charles H.; and Rider, Harold D., 3,442,960.
Earlougher, Robert C., Jr., 3,482,630.
Gogarty, William B.; and Meabon, Harold P., 3,443,635.
Gogarty, William B., 3,443,636.
Gogarty, William B., 3,455,385.
Gogarty, William B., 3,455,389.
Gogarty, William B.; and Jones, Robert G., 3,467,187.
Gogarty, William B., 3,467,188.
Gogarty, William B.; and Jones, Stanley C., 3,474,865.
Gogarty, William B., 3,483,732.
Hall, David W.; and De Puy, Charles H., 3,481,986.
Johnson, Irvin D., 3,424,002.
Johnson, Irvin D., 3,482,235.
Jones, Stanley C.; Sanders, Laurence R., Jr.; Tosch, William C.; and Wenger, Charles B., 3,477,511.
Jones, Stanley C., 3,482,631.
Kinney, Wilson L.; and Jones, Stanley C., 3,467,194.
Kinney, Wilson L., 3,470,958.
Knight, Robert C., 3,455,394.
Lutz, Eugene F.; Kelly, Joe T.; and Hall, David W., 3,481,994.
Nicholas, Morris W., 3,426,776.
Nielson, Gary I.; and Gogarty, William B., 3,473,572.
Norton, Charles J., 3,424,765.
Norton, Charles J.; and Seppi, Ned F., 3,479,397.
Olson, Danford H.; and Bailey, George M., 3,420,902.
Olson, Danford H., 3,427,348.
Parsons, Robert W.; and Chaney, Paul R., 3,437,139.
Patton, James W.; and Son, Marion O., Jr., 3,439,026.
Patton, James W.; and Son, Marion O., 3,439,027.
Patton, James W.; and Seppi, Ned F., 3,452,087.
Patton, James W.; Argabright, Perry A.; Drayer, Dennis E.; and Fox, Dale B., 3,471,555.
Patton, James W.; and Son, Marion O., Jr., 3,487,106.
Peterson, Alan H.; and Farrar, Grover L., 3,447,914.
Peterson, Alan H., 3,479,322.
Peterson, Alan H., 3,487,119.
Plummer, Mark A.; and Peterson, Alan H., 3,487,012.
Poettmann, Fred H., 3,447,507.
Poettmann, Fred H., 3,470,955.
Taussig, Peter R.; and Storms, Phillip W., 3,448,156.
White, James E., 3,475,722.
Winsett, Donald L., 3,460,907.
Marbach, Walter V., to Union Carbide Corporation. Packaging of shirred food casings and package. 3,471,305, 10-7-69, Cl. 99-176.
Marbaix, Gaston E., Limited: *See—*
Hillier, Malcolm Edwin, 3,442,374.
Hillier, Malcolm Edwin, 3,479,926.
Marban, Enrique G. Envelope opener. 3,442,438, 5-6-69, Cl. 229-85.
Marbelite Company, Inc., The: *See—*
Siklos, Gregory, 3,424,509.
Marberg, Gustaf A., to Westinghouse Air Brake Company. Radial adjustment means for boring arms of continuous miner. 3,469,886, 9-30-69, Cl. 299-80.
Marberg, Gustaf Albert, to Westinghouse Air Brake Company. Oscillating cutter ripper miner. 3,469,885, 9-30-69, Cl. 299-71.
Marbet, Roman: *See—*
Lamparsky, Hans Dietmar; and Marbet, Roman,3,470,209.
Marbet, Roman, to Hoffmann-La Roche Inc. 1,1-Dialkoxy substituted alkenes. 3,428,694, 2-18-69, Cl. 260-615.
Marbet, Roman, to Givaudan Corporation, mesne. 3-Hydroxy-7-isobutyl-1,6-octadiene. 3,452,105, 6-24-69, Cl. 260-632.
Marbet, Roman, to Hoffmann-La Roche Inc. Process for production of allene kelones. 3,456,015, 7-15-69, Cl. 260-586.
Marbet, Roman; and Saucy, Gabriel, to Hoffmann-La Roche Inc. Unsaturated carbonyl compounds and processes. 3,453,317, 7-1-69, Cl. 260-476.
Marble, Chester B.: *See—*
Albinger, Harry, Jr.; and Marble, Chester B.,3,432,697.
Marc Wood Materials Societe Anonyme Pour la Promotion des Echanges Techniques Internationaux: *See—*
Gewiss, Lucien-Victor, 3,433,692.
Marc Wood Societe Anonyme pour la Promotion des Eschanges Techniques Internationaux: *See—*
Gewiss, Lucien Victor, 3,461,013.
Marcar, Haik: *See—*
Dingwall, Robert P.; and Marcar, Haik,3,426,453.
Marcatili, Enrique A. J., to Bell Telephone Laboratories, Incorporated. Lens sequence of optimum lens spacing. 3,420,595, 1-7-69, Cl. 350-96.
Marcatili, Enrique A. J., to Bell Telephone Laboratories, Incorporated. Electromagnetic wave focuser-deflector. 3,442,574, 5-6-69, Cl. 350-179.
Marcel, Bocchietti Hyacinthe. Unloading device for bulk materials. 3,469,715, 9-30-69, Cl. 214-14.
Marcel, Henri. Tamper-proof closure. 3,424,330, 1-28-69, Cl. 215-46.
Marcel, Henri. Fitting for containers. 3,434,637, 3-25-69, Cl. 222-570.
Marcel, Jean Pierre; and Velay, Claude, to Controls Company of America, mesne. Multiple time base timer. 3,465,110, 9-2-69, Cl. 200-38.
Marcelissen, Franciscus Hendrikus, to Van der Grinten N.V. Apparatus comprising one or more processing units for reproduction material. 3,476,480, 11-4-69, Cl. 355-104.
Marcell, Gerald V., to Schjeldahl, G. T., Company. Method and apparatus for preparing multiconductor cable with flat conductors. 3,481,802, 12-2-69, Cl. 156-52.
Marcello, Rudolph J. Method for curling and waving hair. 3,451,398, 6-24-69, Cl. 132-7.
March, Adrian Anthony Cecil. Structural assembly for use in a building. 3,466,832, 9-16-69, Cl. 52-536.
March Manufacturing Company: *See—*
Zimmermann, Frederick N., 3,465,681.
Marchais, Jean Claude, to CSF-Compagnie Generale de Telegraphie Sans Fil. Voltage level detector with tunnel diode. 3,436,560, 4-1-69, Cl. 307-322.
Marchal, Germain; and Tridon, Max. Ateliers Robatel & Mulatier Centrifugal machines. 3,446,431, 5-27-69, Cl. 233-19.

Marchal, Michel: *See—*
Accary, Andre; Magnier, Pierre; and Marchal, Michel,3,428,717.
Marchal, Raymond H. F.; and Foure, Claude D., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Boiling liquid reactor. 3,420,737, 1-7-69, Cl. 176-56.
Marchal, Raymond Hippolyte Firmin; Colombani, Don Pierre Louis Jean; and Ernst, Adolphe Otton Gontier, to Societe Nationale d'Etude et de Constructions de Moteurs d'Aviation. Convertible ground-effect/V.T.O.L. vehicle. 3,486,718, 12-30-69, Cl. 244-23.
Marchall, John Donald: *See—*
Nydam, John H., 3,467,147.
Marchand, Jacques. Method of manufacturing packaged articles. 3,424,825, 1-28-69, Cl. 264-45.
Marchand, Jean: *See—*
Henry, Georges; Brichard, Edgard; Marchand, Jean; and Bauduin, Albert,3,477,838.
Marchand, John F. Resettable fixed delay commercial squelch circuit. 3,424,865, 1-28-69, Cl. 178-5.8
Marchand, Nathan: *See—*
Kandoian, Armig G.; and Marchand, Nathan,3,427,622.
Marchant, Paul A.; and McHardy, Kenneth Ray, to Rexall Drug and Chemical Company. Rotatable closure assembly with rim. 3,467,287, 9-16-69, Cl. 222-480.
Marchello, John L., to Wolverine World Wide, Inc. Safety headgear construction. 3,457,563, 7-29-69, Cl. 2-3.
Marchenko, Leonid Fedorovich: *See—*
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; Efodiev, Evgeny Petrovich; and Zafransky, Vladimir Mikhailovich,3,460,200.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; and Zafransky, Vladimir Mikhailovich,3,460,201.
Marcher, Jorgen, to Nielsen, H., & Son, Maskinfabrik A/S. Method of lifting objects of magnetizable material and a system for carrying the method into effect. 3,445,105, 5-20-69, Cl. 271-18.
Marcheron, Claude Louis Edouard, to Societe Hispano-Suiza-Lallemant. Sector type friction brake disc. 3,422,936, 1-21-69, Cl. 188-218.
Marcheron, Claude Louis Edouard, to Societe d'Exploitation des Materiels Hispano-Suiza. Aircraft arresting gear. 3,456,907, 7-22-69, Cl. 244-110.
Marcheron, Claude Louis Edouard, to Societe d'Exploitation des Materiels Hispano-Suiza. Aircraft arresting gear. 3,481,563, 12-2-69, Cl. 244-110.
Marcheron, Claude Louis Edouard, to Societe d'Exploitation des Materiels Hispano-Suiza. Arresting gear including a holding strap. 3,481,564, 12-2-69, Cl. 244-110.
Marcheron, Claude Louis Edouard, to Societe d'Exploitation des Materiels Hispano-Suiza. Aircraft arresting gear. 3,481,565, 12-2-69, Cl. 244-110.
Marchese, Michael A.; and Taft, Lewis G., to International Business Machines Corporation. Apparatus for coating a thin, uniform thickness stripe on a substrate. 3,461,841, 8-19-69, Cl. 118-413.
Marchesini, Cesare; Hogg, Walter R.; and Klein, Robert I., to Coulter Electronics, Inc. Mechanical computer resultant indicating device. 3,424,897, 1-28-69, Cl. 235-92.
Marchessault, Paul A. Cigarette rationing device. 3,455,101, 7-15-69, Cl. 58-1.
Marchetti, Charles Joseph; and Laufer, Theodor Hugo, to Marchetti, Charles, Societe. Vertical or short take-off aerodyne of high translation speed. 3,451,644, 6-24-69, Cl. 244-7.
Marchetti, Charles, Societe: *See—*
Marchetti, Charles, 3,458,160.
Marchetti, Charles Joseph; and Laufer, Theodor Hugo, 3,451,644.
Marchetti, Charles, to Marchetti, Charles, Societe. Rotating-wing aircraft. 3,458,160, 7-29-69, Cl. 244-6.
Marchetti, Enzo. Beta-morpholinoethyl-alpha-phenoxy- isobutyrate hydrochloride or citrate salt. 3,474,095, 10-21-69, Cl. 260-247.2
Marchfelder, Richard. Automatic release separable fastener. 3,475,799, 11-4-69, Cl. 24-230.
Marchione, Joseph H., to Atwood Vacuum Machine Company. Preloaded torsion bar door hold-open device. 3,434,179, 3-25-69, Cl. 16-145.
Marchiorello, Giovanni. Process for constructing high-insulation panels, particularly sandwich panels for prefabricated freezers, and panels produced by this process. 3,432,196, 3-11-69, Cl. 287-189.36
Marchmann, Emil G. Thermally insulated tank structure. 3,456,835, 7-22-69, Cl. 220-9.
Marchon Products Limited: *See—*
Koebner, Adolf; and Thornton, Thomas, 3,440,253.
Sowerby, Austen Edgar, 3,423,174.
Marcik, Milos; Jokl, Rudolf; Kubinek, Jiri; and Ritschl, Evzen, to JAWA, narodni podnik. Lubricating arrangement for a two-stroke-cycle internal combustion engine. 3,447,519, 6-3-69, Cl. 123-127.
Marciniak, Emil J., to Spalding, A. G., & Bros., Inc. Correlated set of golf clubs having the same moment of inertia. 3,473,370, 10-21-69, Cl. 73-65.
Marcinkowsky, Arthur E.: *See—*
Johnson, James S.; Kraus, Kurt A.; Marcinkowsky, Arthur E.; Phillips, Harold O.; and Shor, Arthur J.,3,449,245.
Marcinow, Tadeusz: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Marcmann, Emil G. Stirring device. 3,455,540, 7-15-69, Cl. 259-138.
Marco, Francis W.: *See—*
Bolinger, Edgar Dare; Machell, Greville; and Marco, Francis W.,3,457,027.
Marco, George P., to Allis-Chalmers Manufacturing Company. Retractable overhead guard. 3,472,550, 10-14-69, Cl. 296-102.
Marco, Gino J.: *See—*
Erwin, Eugene S.; and Marco, Gino J.,3,421,898.
Marco Products Company: *See—*
Hunt, Robert G., 3,449,003.
Hunt, Robert G., 3,449,782.
Marco, Silvestre Borras. Shelf assembly. 3,485,189, 12-23-69, Cl. 108-64.
Marconi Company Limited, The: *See—*
Adam, Arthur Mylne, 3,427,493.
Allen, Cyril Joseph; Bliss, John Llewelyn; and Millar, Ian David Balfour, 3,443,024.
Bennett, Frank Colston, 3,447,091.
Brown, Thomas Theodore; Mullin, Leslie Raeburn; and Selves, Gerald Ernest, 3,487,367.
Byatt, Dennis William George; and Starks-Field, Alfred Benjamin, 3,456,258.
Byatt, Dennis William George, 3,487,378.
Clark, William James Rowley; and Hobbs, William Edward, 3,471,634.
Clarke, Stanley Frederick; Radcliffe, Stuart Norman; and Reeves, Anthony John, 3,427,555.
Crumpen, Mervyn, 3,453,631.
Crumpen, Mervyn James, 3,456,261.
Cufflin, Maurice Harold, 3,486,032.
Davies, Eric, 3,454,793.
Davies, Robin Evan; and Howorth, Douglas, 3,457,369.
de Tullio, Luigi; Spence, Ian Leighton; and Mostyn, Rodney, 3,431,549.
Ellis, Alfred Brian Edwin, 3,466,391.
Fenton, Roger Wakefield; and Cooper, George Leslie, 3,436,671.
Fewings, David John, 3,463,945.
Fynn, David Ernest; and Deeley, Alfred Ronald, 3,443,238.
Geddes, William Keith Elliott; and Rout, Eric Raymond, 3,428,762.
Gerard, Roger Edwin John, 3,440,553.
Hobbs, William Edward; and Clark, William James Rowley, 3,449,509.
Hunter, Ian; and Fitzgerald, William Patrick, 3,432,737.
King, Geoffrey, 3,433,142.
Monteath, George Dewar, 3,444,318.
Mortley, Wilfred Sinden; Radcliffe, Stuart Norman; and Clarke, Stanley Frederick, 3,421,112.
Neale, Noel William Thomas; and Morden, Brian Ronald, 3,452,255.
Nightingale, Robert Allen, 3,433,238.
Pay, Donald Alexander; Butt, Anthony John; and Deveson, John Harwood, 3,429,994.
Radford, Matthew Frederick, 3,438,040.
Radford, Matthew Frederick, 3,470,559.
Rout, Eric Raymond, 3,466,387.
Spence, Ian Leighton, 3,431,550.
Stannard, Leslie Charles, 3,439,415.
Warren, Kenneth Alfred James; and Agar, William Oliver, 3,454,946.
Marconi Instruments, Limited: *See—*
Cain, William Dennis, 3,438,271.
Luskow, Alfred Allan, 3,447,083.
Middleton, John David, 3,427,541.
Parkyn, John Michael, 3,487,326.
Marconi, Walter: *See—*
Mazzei, Alesandro; Lugli, Gabriele; and Marconi, Walter,3,463,766.
Marconi, Walter, to SNAM S.p.A. Polymerization of isoprene with catalyst of transition metal and polyiminoalane. 3,476,734, 11-4-69, Cl. 260-94.3
Marconi, Walter; Cesca, Sebastiano; and Arrighetti, Sergio, to SNAM S.p.A. Catalytic compositions for polymerization and copolymerization of alpha-mono-olefins, and processes using such compositions. 3,467,639, 9-16-69, Cl. 260-88.2

Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo, to Snam S.p.A. Olephinic amorphous curable terpolymers of alpha- olefins and polycyclic orthocondensed polyenes having one or more conjugated alkylidene substituents and process for the production thereof. 3,464,959, 9-2-69, Cl. 260-79.5
Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo, to SNAM S.p.A. Polymeric iminic-aluminium compounds as catalysts for alpha-olefin polymerization. 3,470,138, 9-30-69, Cl. 260-80.78
Marconi, Walter; Mazzei, Alessandro; and Lugli, Gabriele, to SNAM S.p.A. Catalytic compositions for butadiene polymerization and processes using said compositions. 3,468,867, 9-23-69, Cl. 260-94.3
Marconi, Walter; Mzaaei, Alessandro; de Malde', Marcello; and Cucinella, Salvatore, to Snam Progetti S.p.A. Process for the stereospecific polymerization of isoprene. 3,432,516, 3-11-69, Cl. 260-94.3
Marcotte, Alphonse U.: *See*—
Calta, Salvatore A.; Carlson, Harry A.; Granito, Gerry D.; Kaumeyer, Lynn W.; Marcotte, Alphonse U.; and Messina, Benedicto U.,3,447,135.
Marcoux, Leo, to Texas Instruments, Incorporated. Component oven. 3,437,790, 4-8-69, Cl. 219-210.
Marcoux, Leo, to Texas Instruments, Incorporated. Aerosol heater with improved control means. 3,476,293, 11-4-69, Cl. 222-146.
Marcoux, Vernon F. J. Carburetor for rotary engines. 3,456,636, 7-22-69, Cl. 123-137.
Marcoux, Vernon F. J. Rotary combustion engine. 3,478,727, 11-18-69, Cl. 123-15.
Marcovecchio, Joseph; and Mitteldorf, Arthur J., to Spex Industries, Inc. Positioning apparatus for wavelength gating devices in spectroscopic systems. 3,442,593, 5-6-69, Cl. 356-96.
Marcovitch, Jacob, to Rotary Profile Anstalt. Profiling of annular workpieces. 3,446,048, 5-27-69, Cl. 72-126.
Marcovitch, Jacob, to Rotary Profile Anstalt. Head for rolling threads or like formations. 3,452,567, 7-1-69, Cl. 72-78.
Marcovitch, Jacob, to Rotary Profile Anstalt. Rolling of cylindrical components having non-planar ends. 3,461,701, 8-19-69, Cl. 72-84.
Marcovitch, Jacob, to Rotary Profile Anstalt. Mass production of standardised components. 3,466,911, 9-16-69, Cl. 72-91.
Marcovitch, Jacob, to Rotary Profile Anstalt. Manufacture of annular articles. 3,466,912, 9-16-69, Cl. 72-110.
Marcovitch, Jacob, to Rotary Profile Anstalt. Working of plastically deformable materials. 3,466,916, 9-16-69, Cl. 72-299.
Marcovitch, Jacob, to Rotary Profile Anstalt. Profiling of workpieces. 3,466,918, 9-16-69, Cl. 72-366.
Marcovitch, Jacob, to Rotary Profile Anstalt. Profiling of workpieces. 3,470,775, 10-7-69, Cl. 82-83.
Marcovitch, Jacob, to Rotary Profile Anstalt. Profiling of workpieces that are figures of revolution. 3,473,358, 10-21-69, Cl. 72-121.
Marcovitch, Jacob, to Rotary Profile Anstalt. Rolling of cylindrical workpieces. 3,474,652, 10-28-69, Cl. 72-190.
Marcovitch, Jacob, to Rotary Profile Anstalt. Machine for profiling annular workpieces by rolling. 3,486,358, 12-30-69, Cl. 72-91.
Marcucci, Rudolph: *See*—
Evans, Wayne; Marcucci, Rudolph; and Gates, Paul,3,466,488.
Marcum, Norman E.: *See*—
Farrand, William A.; Horsfall, Robert B.; Williams, Warner D.; and Marcum, Norman E.,3,482,232.
Horsfall, Robert B.; Farrand, William A.; and Marcum, Norman E.,3,462,817.
Marcus, Daniel H., to Sequential Electronic Systems, Inc. Measurement of object displacements and velocities. 3,454,777, 7-8-69, Cl. 250-237.
Marcus, Erich: *See*—
Chan, John K.; and Marcus, Erich,3,448,131.
Marcus, Erich; and Chan, John K., to Union Carbide Corporation. Process for the production of coumarins. 3,449,372, 6-10-69, Cl. 260-343.2
Marcus, Erich; and Hughes, John L., to Union Carbide Corporation. O-Acetoacetyl oximes. 3,483,231, 12-9-69, Cl. 260-396.
Marcus, Erich; Mac Peek, Donald L.; and Tinsley, Samuel W., to Union Carbide Corporation. Diepoxides of omega-alkenylbicycloheptyl compounds. 3,455,966, 7-15-69, Cl. 260-348.
Marcus, Erich; and MacPeek, Donald L., to Union Carbide Corporation. Curable and cured compositions of diepoxide ethers such as bis,3,4-epoxybutyl,ether with active organic hardeners. 3,420,785, 1-7-69, Cl. 260-2.
Marcus, Erich; and MacPeek, Donald L., to Union Carbide Corporation. Trans-di(hydroxyalkyl)cyclobutanes. 3,431,309, 3-4-69, Cl. 260-617.
Marcus, Ernst. Stepless variable transmission. 3,442,158, 5-6-69, Cl. 74-796.
Marcus, Henry J.: *See*—
Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J.,3,440,282.
Gold, Marvin H.; and Marcus, Henry J.,3,432,540.
Marcus, Irving: *See*—
Weiner, Nathan; and Marcus, Irving,3,442,174.
Marcus, Konrad H., to Donnelly Mirrors, Inc. Method of forming vehicular rearview mirrors. 3,454,692, 7-8-69, Cl. 264-135.
Marcus, Mitchell P.: *See*—
King, John H., Jr.; Tunis, Cyril J.; and Marcus, Mitchell P.,3,446,950.
Lord, Philip A.; and Marcus, Mitchell P.,3,426,335.
Marcus, Paul, to APL Corporation. Base of plastic container for storing fluids under pressure. 3,468,443, 9-23-69, Cl. 215-1.
Marcus, Thomas J., to North American Rockwell Corporation. Code matrix reader. 3,473,036, 10-14-69, Cl. 250-219.
Marcus, Wilhelm, to Matheis, Wolfgang. Embroidering apparatus. 3,456,608, 7-22-69, Cl. 112-102.
Marczak, Thaddeus S.; and Casanova, Frank A. Vending machine for newspapers and periodicals. 3,425,596, 2-4-69, Cl. 221-77.
Mard Continental, Inc.: *See*—
Siegal, Burton L., 3,465,139.
Mardarello, Alfred F.; and Becker, Ralph J., to United States of America, Army. Noisemaking device. 3,457,862, 7-29-69, Cl. 102-88.
Mardarello, Alfred F.; and Berman, Allen, to United States of America, Army. Chemical impact-sensitive fuze. 3,421,441, 1-14-69, Cl. 102-73.
Marder, Herman L., to American Home Products Corporation. Aerosol container having cap-actuator with dip- tube orienting means. 3,420,410, 1-7-69, Cl. 222-48.
Marder, Herman L.; and Steckhahn, Frank L., to American Home Products Corporation. Aerosol container for dispensing uniformly metered proportions of the components of a composition. 3,482,737, 12-9-69, Cl. 222-94.
Marechal, Gilles Adrien Georges, to S.E.P.M. Shockproof circuit breaker with a fuse cartridge. 3,471,817, 10-7-69, Cl. 337-201.
Marechal, Guy N. L. J., to North American Philips Company, Inc. Parametric amplifier. 3,433,976, 3-18-69, Cl. 307-88.3
Marechal, Madeleine France Louise: *See*—
Moritz, Victor; and Moritz, Paul,3,480,703.
Marek, Albert J., to United States of America, Navy, mesne. D.C. bus switching power contact. 3,449,595, 6-10-69, Cl. 307-252.
Marek, Bruno S. V.; and Gneisz, Josef, to Societe de la Viscose Suisse. Modification of regenerated cellulose fibers by subjecting the fibers to a swelling agent and mechanical movement. 3,423,284, 1-21-69, Cl. 162-157.
Marek, Joseph G.; and Erato, Vincent A., to Victor Tool and Manufacturing, Incorporated. Reproducing apparatus. 3,469,908, 9-30-69, Cl. 355-3.
Marek, RobertD.: *See*—
Tholey, Francis E. J.; and Marek, RobertD.,3,462,586.
Marek, William F.; and Higgs, Fred, Jr. Thread trimming device. 3,421,465, 1-14-69, Cl. 112-252.
Maremont Corporation: *See*—
Burnham, Virgil A., 3,481,006.
Burnham, Virgil Allan; and Munroe, Richard Warren, 3,432,890.
Chilpan, Kurt Constantine, 3,481,131.
Chilpan, Kurt Constantine, 3,482,388.
Collins, Joel Clarence, 3,447,298.
Stiepel, Erhard Edwin, 3,420,343.
Stiepel, Erhard Edwin, 3,435,485.
Von Kaenel, John Clifford; Anderson, Gordon Campbell; and Seymore, Stephen David, Jr., 3,479,699.
West, Paul Bemis, 3,432,891.
Marens, Nelson S.; and Jaffe, Fred, to Grace, W. R., & Co. Ionizing irradiation polymerization of trioxane. 3,438,883, 4-15-69, Cl. 204-159.21
Mares, Lodovico. Swimming fin. 3,422,470, 1-21-69, Cl. 9-309.
Mares, Trinidad: *See*—
Arthur, Jett C., Jr.; and Mares, Trinidad,3,443,879.
Marette, Ralph T.: *See*—
Hansen, Howard J.; and Marette, Ralph T.,3,423,110.
Marez, John, to United States of America, Navy. Automatic correction system for bringing recorded data into synchronism with a reference. 3,469,193, 9-23-69, Cl. 325-323.
Marfaing, Yves; Bailly, Francis; Cohen-Solal, Gerard; and Rodot, Michel, to Centre National de la Recherche Scientifique. Methods of depositing a volatile material on a solid support. 3,472,685, 10-14-69, Cl. 117-201.
Marforio, Italo. Hair curler and method for the production thereof. 3,422,823, 1-21-69, Cl. 132-40.
Marforio, Nerino, to S.p.A. Virginio Rimoldi & C. Sewing machine for attaching bindings on the edges of fabrics by means of chainstitch seams blind on one side of the binding. 3,476,065, 11-4-69, Cl. 112-197.
Margaroli, John L.; and Hesse, Earl J., to Ashlock, Geo. W., Co. Chucks for fruit pitting machines. 3,469,612, 9-30-69, Cl. 146-17.
Margason, Lester L.: *See*—
Burgman, Jerome A.; and Margason, Lester L.,3,421,873.
Margetts, Hugh G., to Girling Limited. Hydraulic and mechanical brake actuator. 3,443,670, 5-13-69, Cl. 188-106.
Margetts, Hyrum Russell: *See*—
Brimley, Richard; Margetts, Lynn F.; and Margetts, Hyrum Russell,3,424,184.

Margetts, Lynn F.: *See—*
Brimley, Richard; Margetts, Lynn F.; and Margetts, Hyrum Russell,3,424,184.
Margola, Gianni B., to Societa Ceramica Italiana Richard-Ginou S.p.A. Equipment for varnishing ceramic stock semi- finished products, in particular crockery. 3,425,396, 2-4-69, Cl. 118-316.
Margolien, David H.; and Kanawyer, Walter N., to Litton Precision Products, Inc. Digital encoder. 3,435,446, 3-25-69, Cl. 340-347.
Margolien, David H.; and Krag, Niels, to Litton Precision Products, Inc. Shaft encoder. 3,484,776, 12-16-69, Cl. 340-347.
Margolien, David H.; Lee, Arnold St. J.; and Krag, Niels, to Litton Precision Products, Inc. Having provisions for phase adjustment of contacts during operation. 3,444,549, 5-13-69, Cl. 340-347.
Margolien, David H.: *See—*
Schuler, Chester L.; Margolien, David H.; and Blatt, Fred M.,3,452,267.
Margolis, Edward, to Billiard Controls, Inc. Billiard play tally system. 3,448,459, 6-3-69, Cl. 346-33.
Margolis, Joseph M., to General Electric Company. Recrystallization of anhydrous calcium acid phosphate from the dihydrate form. 3,420,625, 1-7-69, Cl. 23-108.
Margon Corporation: *See—*
Wilhelm, John H., 3,478,465.
Margot, Alfred, to Geigy Chemical Corporation. Animal feeds containing phthalazinone derivatives as growth promoters. 3,433,641, 3-18-69, Cl. 99-2.
Margot, Alfred; and Gallay, Jean-Jacques, to Geigy Chemical Corporation. Benzoylethyl quaternary ammonium compounds as anthelimintic agents. 3,453,313, 7-1-69, Cl. 260-459.
Margrain, Pierre, to Etablissements E. Ragonot. Supply device for automatic continuous welding installations. 3,443,145, 5-6-69, Cl. 314-69.
Margrave, John L.; and Timms, Peter L. Bicyclo and aromatic silicon-fluorine compounds and methods of preparation. 3,485,862, 12-23-69, Cl. 260-448.
Margreiter, Hans: *See—*
Frank, Albert; Kraushaar, Alfred; Margreiter, Hans; and Schunk, Roland,3,432,490.
Margreiter, Hermann, to Siemens Aktiengesellschaft. System for checking the operational reliability of logic modules and finding the locality of faults. 3,422,414, 1-14-69, Cl. 340-214.
Margulies, Howard: *See—*
Miller, Bernard; and Margulies, Howard,3,476,834.
Miller, Bernard; and Margulies, Howard,3,480,697.
Marhauer, Hans H., to Procter & Gamble Company, The. Mass flow controller. 3,481,509, 12-2-69, Cl. 222-1.
Maria, Alain; Patigny, Pierre; and Perie, Daniel, to Commissariat a l'Energie Atomique. process for the separation of molybdenum from fission product containing solutions. 3,450,639, 6-17-69, Cl. 252-301.1
Marian, Josef E., to Hombak Maschinenfabrik KG. Method of forming finger joints. 3,480,054, 11-25-69, Cl. 144-317.
Mariani, Brunello; Guizzi, Alberto; and Tisselli, Eugenio, to Ferrania, S.p.A. Silver halide emulsion containing an azo- pyrazolone coupler. 3,476,564, 11-4-69, Cl. 96-100.
Mariani, Remo, to Thomas & Betts Corporation. Self clinching bundling strap. 3,457,598, 7-29-69, Cl. 24-16.
Mariani, Thomas L.; and Hirschmann, Robert P., to Allied Chemical Corporation. Chromatographic column using diamond deposited on calcium fluoride. 3,455,841, 7-15-69, Cl. 252-441.
Mariani, Thomas L.: *See—*
Rosenblatt, Herbert; Mariani, Thomas L.; and Arvidson, Philip R.,3,483,965.
Maricuta, Nicolae: *See—*
Moscovici, Anuta; Maricuta, Nicolae; and Cocosco, Elizabeta,3,472,623.
Marieni, Gino J.: *See—*
Tenenbaum, Nathaniel D.; and Marieni, Gino J.,3,440,491.
Marier, Gaston. Concrete pile construction. 3,422,630, 1-21-69, Cl. 61-53.
Marietta, Walter E., to General Signal Corporation. Pump or motor. 3,482,524, 12-9-69, Cl. 103-126.
Mariette, Bernard Marie Andre; and Teyssedre, Jules Maurice Pierre, to Fives-Penhoet. Recuperative boiler. 3,452,721, 7-1-69, Cl. 122-32.
Marifarms, Incorporated: *See—*
Fujinaga, Motosaku, 3,477,406.
Miyamura, Mitsutake, 3,473,509.
Marin A., Alvaro. Rotary fluid-handling mechanism. 3,477,414, 11-11-69, Cl. 123-13.
Marin, Paul J. Multi-chuck drill holder. 3,447,614, 6-3-69, Cl. 173-141.
Marin, Paul J. Embedded receptacle with sealing means. 3,453,788, 7-8-69, Cl. 52-99.
Marinaccio, Paul J.; and Kelley, Joseph M., to Dart Industries, Inc. Polypropylene stabilized with combinations of a phosphonate triazine and thiodipropionate. 3,472,805, 10-14-69, Cl. 260-23.
Marinaccio, Paul J.; and Kelley, Joseph M. Polyolefins containing a combination of antioxidants and ultraviolet absorbers. 3,481,897, 12-2-69, Cl. 260-45.75
Marinace, John C., to International Business Machines Corporation. Process of bonding chips in a substrate recess by epitaxial growth of the bonding material. 3,433,686, 3-18-69, Cl. 148-175.
Marinace, John C., to International Business Machines Corporation. Process for preforming crystalline bodies. 3,458,369, 7-29-69, Cl. 148-175.
Marinace, John C.; and Rutz, Richard F., to International Business Machines Corporation. Method of making crystal shapes having optically related surface'. 3,457,633, 7-29-69, Cl. 29-583.
Marine Acoustical Services, Inc.: *See—*
Band, John G. G., 3,445,806.
Marine Colloids, Inc.: *See—*
Blethen, John, 3,446,625.
Moirano, Arthur L., 3,443,968.
Moirano, Arthur L., 3,445,243.
Marine Construction & Design Co.: *See—*
Lerch, David W., 3,421,245.
Marine Engine Specialties Corp.: *See—*
Jones, Norman, 3,464,447.
Marine Industries, Inc.: *See—*
Foster, Merrill J., 3,425,280.
Marine, John R. Land clearing implement. 3,424,211, 1-28-69, Cl. 144-34.
Marine, Robert P.: *See—*
Johnson, Keith M.; Marine, Robert P.; and Akers, Edward G.,3,473,556.
Marine Swimming Pool Equipment Company: *See—*
Gelinas, Ralph J., 3,433,237.
Marinelli, Nicola; and Whitaker, John G., to National Cash Register Company, The. Process for preparation of autogenously reactant minute capsules. 3,467,544, 9-16-69, Cl. 117-100.
Marinescu, Matei, to Ministerul Industriei Constructiilor de Masini. Electric motor with alternating linear motion. 3,431,477, 3-4-69, Cl. 318-125.
Maringer, Melvin F., to National Distillers and Chemical Corporation. High impact blends of polystyrene, alfin-catalyzed resinous copolymer and alfin-catalyzed butadiene rubber. 3,449,469, 6-10-69, Cl. 260-876.
Marinier, Bernard, to Horner, Frank W., Limited. Unsymmetrical derivatives of djenkolic acid. 3,448,141, 6-3-69, Cl. 260-481.
Marinier, Bernard, to Horner, Frank W., Limited. Unsymmetrical djenkolic acid derivatives. 3,448,142, 6-3-69, Cl. 260-481.
Marinier, Bernard, to Horner, Frank W., Limited. Derivatives of djenkolic acid. 3,448,143, 6-3-69, Cl. 260-481.
Marino, Anthony. Fluid transport line cleaning device and system. 3,486,512, 12-30-69, Cl. 134-93.
Marino, Francis C., to Digitronics Corporation. Signal slope derivative detection apparatus. 3,449,593, 6-10-69, Cl. 307-235.
Marino, Francis C.; and Simon, Herman, to Digitronics Corporation. Recording system for business machines. 3,472,449, 10-14-69, Cl. 235-61.
Marino, Francis C.: *See—*
Wolf, Edgar; Marino, Francis C.; Simon, Herman; and Kummer, Daniel F.,3,472,448.
Wolf, Edgar; Worster, David E.; and Marino, Francis C.,3,466,550.
Marino, Frank C.; and Wolf, Edgar, to Digitronics Corporation. Signal duration and pulse width responsive control apparatus. 3,449,720, 6-10-69, Cl. 340-167.
Marino, Frank J. Flexible cargo container. 3,425,472, 2-4-69, Cl. 150-50.
Marino, Lawrence W. Terminal room air conditioner and system. 3,463,223, 8-26-69, Cl. 165-22.
Marino, Louis S.: *See—*
Buell, Heinz; Fiore, John M.; Marino, Louis S.; and Rubin, Jack,3,430,239.
Marino, Santo. Fish lure. 3,432,957, 3-18-69, Cl. 43-17.1
Marinoff, Roy M. Carpet sewing machine. 3,440,981, 4-29-69, Cl. 112-7.
Marinus, Victor Alois: *See—*
De Smedt, Felix Frederik; and Marinus, Victor Alois,3,455,175.
De Smedt, Felix Frederik; Marinus, Victor Alois; and De Meyere, Edwin August,3,456,293.
Marion, Andre F., to Friden, Inc. Carriage drive for high-speed printer. 3,424,291, 1-28-69, Cl. 197-49.
Marion, Clyde E., to Murphy, L. R., Scale Company. Platform scale with concrete curbed deck. 3,442,343, 5-6-69, Cl. 177-134.
Marion, Donald L.: *See—*
Strand, Robert C.; and Marion, Donald L.,3,428,596.
Marion Laboratories, Inc.: *See—*
Mathison, Ian William; and Gueldner, Richard Charles, 3,459,755.
Mathison, Ian William, 3,475,538.
Marion Power Shovel Company: *See—*
Thompson, George J., 3,477,769.
Marion Power Shovel Company, Inc.: *See—*
Baron, George B., 3,481,222.
Marion, Thomas E.: *See—*
Carter, Paul H.; Marion, Thomas E.; Morse, Raymond L.; and Doty, William T.,3,460,317.

Marion, Thomas E., to Universal Machine Co., Inc. Tube cutter. 3,478,627, 11-18-69, Cl. 82-70.2
Maris, David B. Blow-molded containers. 3,474,843, 10-28-69, Cl. 150-0.5
Maris, Peter. Power comb. 3,461,883, 8-19-69, Cl. 132-11.
Mariz, Carl L.: *See—*
Payne, William E.; and Mariz, Carl L.,3,468,863.
Mark, Alexander H., to Massey-Ferguson Inc. Conical threshing assembly. 3,430,633, 3-4-69, Cl. 130-27.
Mark, Alexander H.; and Knicely, David R., to Massey-Ferguson Inc. Crop harvesting and dewatering machine. 3,431,713, 3-11-69, Cl. 56-23.
Mark, Alexander H.; and Morrison, John E., Jr., to Massey-Ferguson Inc. Precision planter with seed accelerator. 3,434,437, 3-25-69, Cl. 111-85.
Mark, Alexander H.; and Necas, Joseph, to Massey-Ferguson Inc. Toothed conical threshing assembly. 3,426,760, 2-11-69, Cl. 130-27.
Mark, Irving L.: *See—*
Jaffee, Robert D.; Mark, Irving L.; and Downer, Darrell L.,3,442,397.
Mark, Len, to Sprague & Henwood, Incorporated. Core taking apparatus. 3,420,322, 1-7-69, Cl. 175-246.
Mark Products, Inc.: *See—*
Johnson, Walter P., III, 3,451,040.
Mark, Stanley D., Jr.: *See—*
Mueller, John A.; and Mark, Stanley D., Jr.,3,474,576.
Mark Systems, Inc.: *See—*
Walther, Adriaan, 3,453,035.
Mark, Victor, to Pennsalt Chemicals Corporation. Halogen exchange process. 3,420,900, 1-7-69, Cl. 260-648.
Mark, Victor, to Monsanto Company. Cyclopentadienes. 3,478,117, 11-11-69, Cl. 260-648.
Markant, Henry P.; Phillips, Norman D.; and Shah, Indravadan S., to Babcock & Wilcox Company, The. System for absorbing H_2S gases. 3,471,249, 10-7-69, Cl. 23-2.
Marker, Hannes: *See—*
Adam, Gunter, 3,473,817.
Heckl, Egon, 3,445,124.
Scheib, Hermann; and Adam, Gunter, 3,428,329.
Marker, Hannes. Sole support for safety ski bindings. 3,446,511, 5-27-69, Cl. 280-11.35
Marker, Hannes. Retaining device for safety ski bindings. 3,448,989, 6-10-69, Cl. 280-11.35
Marker, Hannes. Heel plate for ski bindings. 3,455,569, 7-15-69, Cl. 280-11.35
Marker, Hannes; and Adam, Gunter. Toe iron for safety ski bindings. 3,432,179, 3-11-69, Cl. 280-11.35
Marker, Hannes; and Heckl, Egon. Toe-or heel-holding device for safety ski bindings. 3,458,211, 7-29-69, Cl. 280-11.35
Markert, Ferdinand: *See—*
Meyer, Hermann; Markert, Ferdinand; and Schmidt, Emil,3,458,588.
Markert, George B., to Firestone Tire & Rubber Company, The. Process and composition of matter. 3,425,986, 2-4-69, Cl. 260-45.75
Markert, Hans; and Heyden, Rudi, to Bohme Chemie Gesellschaft mit beschrankter Haftung. Water resistant leathers and fur skins. 3,442,696, 5-6-69, Cl. 117-141.
Markert, Hans; and Heyden, Rudi, to Bohme Chemie Gesellschaft mit beschrankter Haftung. Composition and method for waterproofing leather and fur. 3,479,288, 11-18-69, Cl. 252-8.57
Market Electronics Company: *See—*
Battle, Michael A., 3,444,330.
Markevitch, Bob V., to Ampex Corporation. Differential light sensing means with one photomultiplier connected to one of the dynodes of the other photomultiplier. 3,463,926, 8-26-69, Cl. 250-207.
Markey, Harold G., to International Business Machines Corporation. Data transmission constant current adapter. 3,458,665, 7-29-69, Cl. 178-68.
Markey, Joseph Thomas, to Gillette Company, The. Apparatus for detection of transverse curvature. 3,465,571, 9-9-69, Cl. 73-37.7
Markey, Roscoe I., to Teledyne, Inc. Spring washer. 3,476,009, 11-4-69, Cl. 85-62.
Markey, Roscoe I., to Teledyne, Inc. Fixed screw joint system. 3,476,010, 11-4-69, Cl. 85-62.
Markey, Roscoe I., to Teledyne, Inc. Self-adjusting bearing. 3,476,454, 11-4-69, Cl. 308-207.
Markgraf, Andreas G., to Burroughs Corporation. Electrostatic and magnetic recording method. 3,441,938, 4-29-69, Cl. 346-1.
Markgraf, John H.; and Quinn, Herbert, to Procter & Gamble Company, The. Antibacterial composition. 3,485,919, 12-23-69, Cl. 424-322.
Markham, Aaron E.; and Blackmore, Kenneth A. E., to Georgia-Pacific Corporation. Process for treating sulfonated lignin-containing material and product thereof. 3,476,740, 11-4-69, Cl. 260-124.
Markham, Harold A. Surgical clamp. 3,446,211, 5-27-69, Cl. 128-322.
Markham, James D.; and Sanders, Charles R., to Western Electric Company, Incorporated. Winding apparatus. 3,451,633, 6-24-69, Cl. 242-9.
Markhart, Albert H.: *See—*
Lavin, Edward; Markhart, Albert H.; and Santer, James O.,3,480,588.
Young, Raymond H., Jr.; Cohen, Saul M.; and Markhart, Albert H.,3,460,961.
Young, Raymond H., Jr.; Cohen, Saul M.; Markhart, Albert H.; and Serlin, Irving,3,444,129.
Markillie, John H.: *See—*
Wright, John B.; and Markillie, John H.,3,452,014.
Markkanen, Carl Olavi: *See—*
Tortorici, John Joseph; Terleckyj, Jaroslav; and Markkanen, Carl Olavi,3,485,150.
Markl, Heinz: *See—*
Knotik, Karl; Koss, Peter; and Markl, Heinz,3,472,922.
Markland, Merwin R.: *See—*
Padberg, Louis R., Jr.; Parker, Fred D.; and Markland, Merwin R.,3,453,588.
Markland, Norman Ray; and Parkison, Richard Grant, to American Standard Inc. Hot water heating system having a unique fitting therein. 3,472,453, 10-14-69, Cl. 237-63.
Markle, Richard A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,433,818.
Markley, Clarence A. Wheel balancing instrument. 3,452,605, 7-1-69, Cl. 73-486.
Markley, Lita L.: *See—*
Bixler, Harris J.; Cross, Robert A.; and Markley, Lita L.,3,475,358.
Marklow, Raymond Joseph: *See—*
Aitken, Roxburgh Richmond; and Marklow, Raymond Joseph,3,446,848.
Marklow, Raymond Joseph, to Imperial Chemical Industries Limited. Polyurethane precursor composition containing an organic halogen and trialkanolamine. 3,459,671, 8-5-69, Cl. 252-182.
Markotan, Robert J., to Acme Abrasive Co. Abrasive composition with limestone as the porosity-inducing agent. 3,476,537, 11-4-69, Cl. 51-296.
Markovitz, Meyer. Artificial glomerulus and a method for treating blood. 3,483,867, 12-16-69, Cl. 128-214.
Markowitz, Isral J. Safety aerosol cover cap. 3,462,045, 8-19-69, Cl. 222-182.
Markowitz, Jerome, to Allen Organ Company. Musical instrument with time delay characteristics. 3,453,371, 7-1-69, Cl. 84-1.01
Markowitz, Jerome; Griffith, Errol Robert; and Wetherhold, James Richard. Electronic musical apparatus. 3,445,579, 5-20-69, Cl. 84-1.24
Markowitz, Seymour; and Mayne, David W., to Ampex Corporation. Word drive system for a magnetic core memory. 3,474,419, 10-21-69, Cl. 340-174.
Markowski, Stanley J., to United Aircraft Corporation. Cooling scheme for a three bearing swivel nozzle. 3,429,509, 2-25-69, Cl. 239-127.3
Markowz, Karl Heinz. Space heater and heating units. 3,426,840, 2-11-69, Cl. 165-131.
Marks, Alfred Finlay; and Brahm, Armin Wolfgang, to American Cyanamid Company. Method for deodorizing O,O-dialkyl S- alkylthio)alkyl phosphorodithioates. 3,439,071, 4-15-69, Cl. 260-989.
Marks, Alfred R., Jr. Full bore directional drilling tool. 3,477,524, 11-11-69, Cl. 175-82.
Marks, Alvin M. Multiple iris raster. 3,451,742, 6-24-69, Cl. 350-160.
Marks, Alvin M. Electrically charged spray-condenser for recovering water distillate. 3,455,790, 7-15-69, Cl. 202-185.
Marks, Alvin M. Gas flywheel power converter. 3,456,135, 7-15-69, Cl. 310-11.
Marks, Alvin M.; and Marks, Mortimer M. Photopic and scotopic 3-dimensional viewing system. 3,445,153, 5-20-69, Cl. 350-144.
Marks, Barnard M., to Du Pont de Nemours, E. I., and Company. Boron trifluoride-hydrogen fluoride catalyzed synthesis of poly (aromatic ketone) and poly (aromatic sulfone) polymers. 3,441,538, 4-29-69, Cl. 260-49.
Marks, Bruce G., to Philco-Ford Corporation. Flaw detection and marking system. 3,445,672, 5-20-69, Cl. 250-219.
Marks, Bruce G., to Philco-Ford Corporation. Color CRT assembly. 3,461,342, 8-12-69, Cl. 315-13.
Marks, Bruce G.; and Revesz, George, to Philco-Ford Corporation. Non-circular rotary scanning means. 3,441,334, 4-29-69, Cl. 350-7.
Marks, Charles A. Emergency traction cleat for tires. 3,473,592, 10-21-69, Cl. 152-213.
Marks, Dorothy J. Collapsible, inflatable, disposable bed pan. 3,464,066, 9-2-69, Cl. 4-113.
Marks, George B.; Marks, John W.; Marks, Herman J.; and Piacitelli, Frank J., Jr., to Technical Innovations Incorporated. Light assembly adapter. 3,458,849, 7-29-69, Cl. 339-28.

Marks, Herman J.: *See—*
Marks, George B.; Marks, John W.; Marks, Herman J.; and Piacitelli, Frank J., Jr.,3,458,849.
Marks, John W.: *See—*
Marks, George B.; Marks, John W.; Marks, Herman J.; and Piacitelli, Frank J., Jr.,3,458,849.
Marks, Lawrence P., to Smith, A. O., Corporation. Printed circuit board rack. 3,470,420, 9-30-69, Cl. 317-101.
Marks, Lloyd C., to Beckman Instruments, Inc. Centrifuge test tube cap. 3,459,369, 8-5-69, Cl. 233-26.
Marks, Louis W., to General Electric Company. High voltage current transformer having rigid secondary eye bolt and flexible primary cables in high voltage tank. 3,441,885, 4-29-69, Cl. 336-84.
Marks, Mortimer M.: *See—*
Marks, Alvin M.; and Marks, Mortimer M.,3,445,153.
Marks, Murray: *See—*
Jarvis, Marvin A.; and Marks, Murray,3,456,805.
Marks, Peter Edmund, to Birfield Engineering Limited. Spraying equipment. 3,421,697, 1-14-69, Cl. 239-152.
Marks, Robert G. Storage cabinet. 3,431,039, 3-4-69, Cl. 312-221.
Marks, Robert: *See—*
Smith, Kenneth C.; and Marks, Robert,3,458,438.
Marks, Ronald H., to American Can Company. Cargo cushion. 3,426,891, 2-11-69, Cl. 206-46.
Marks, Ronald H.; Goodman, Lawrence R.; Stokes, Luther E.; and Millard, Roy H., to American Can Company, mesne. Fabric forming apparatus. 3,446,041, 5-27-69, Cl. 66-125.
Marks, Theodore, to American Technical Machinery Corporation. Baby bottle brush with tipped ends. 3,451,723, 6-24-69, Cl. 300-21.
Markthaler, Grace E.: *See—*
Brooks, Chester E.; Henry, James L.; Linhart, Peter B.; Markthaler, Grace E.; Massoni, Donald R.; and Meyerle, John A.,3,462,557.
Markus, Fred. Liquid coloring composition comprising an acid etching agent for a set cementitions surface. 3,457,210, 7-22-69, Cl. 260-29.6
Markus-Campbell Company: *See—*
Hvale, James L.; and Baumgartner, Robert L., 3,482,332.
Markwardt, Fritz; Schafer, Gerhard; Topfer, Horst; and Walsmann, Peter, to VEB Arzneimittelwerk. Method for producing highly pure hirudine. 3,432,596, 3-11-69, Cl. 424-95.
Markway, Leroy H.: *See—*
Wilson, Joseph G.; Franzel, Harvey L.; and Markway, Leroy H.,3,443,368.
Markwitz, Bernhard; and Pomp, Horst. Supporting means to prevent parts of the body from contracting bed-sores. 3,462,775, 8-26-69, Cl. 5-327.
Markwood, Ronald L. Vertiplane VTOL aircraft. 3,426,982, 2-11-69, Cl. 244-7.
Marlan Company: *See—*
Dunn, Lyman D.; and Gembicki, Stanley, 3,473,580.
Marland, Milton L. Selectively variable dispenser type container for the periodic dispensing of coffee or other flowable product. 3,439,827, 4-22-69, Cl. 215-100.
Marlborough, Alan Michael John; and Waldie, Arthur Gordon, to Imperial Chemical Industries Limited. Drawing apparatus. 3,483,593, 12-16-69, Cl. 18-1.
Marle, David John, to Garrett Corporation, The. Resiliently mounted bearing arrangements. 3,467,451, 9-16-69, Cl. 308-26.
Marlen Equipment Company: *See—*
Miller, Jack M.; Long, Marshall; and Alley, Lewis F., 3,456,285.
Marlet Barrera, Jose. Automatic coffee brewing machine. 3,440,951, 4-29-69, Cl. 99-282.
Marley, David J., to Garrett Corporation, The. Hydrodynamic shaft bearing. 3,434,761, 3-25-69, Cl. 308-9.
Marley, David J., to Garrett Corporation, The. Hydrodynamic shaft bearing. 3,434,762, 3-25-69, Cl. 308-9.
Marley, Edward W., to Ferro Equipment Company. Centerless grinder workpiece ejector. 3,451,172, 6-24-69, Cl. 51-103.
Marley, Lawrence L. Fluid polishing composition and method of making. 3,447,935, 6-3-69, Cl. 106-8.
Marley, Walter M.; and Milstein, Herman, to Roto-Disc Valve Company. Non-cavitating disc valve. 3,424,200, 1-28-69, Cl. 137-625.31
Marlin Firearms Company, The: *See—*
Robinson, Thomas R., Jr., 3,426,465.
Marlin Toy Products, Inc.: *See—*
Lakin, Willis M., 3,471,143.
Marling, Henry J. Vehicle seatbelt fastening device. 3,485,529, 12-23-69, Cl. 297-385.
Marlo Company, Inc., The: *See—*
Zumeta, Julio; and Case, Edward Murray, 3,438,841.
Marlot, Pierre Louis Michel: *See—*
Liescroart, Louis Constant Joseph; and Marlot, Pierre Louis Michel,3,434,909.
Marlow, David G.: *See—*
Smith, Gerald D.; and Marlow, David G.,3,435,601.
Marlow, Jacob, to Robertshaw Controls Company. Solid state power switching means. 3,427,465, 2-11-69, Cl. 307-38.
Marlow, Jacob. Position and velocity detecting apparatus. 3,465,238, 9-2-69, Cl. 323-53.
Marlow, James F.: *See—*
Roode, Melvin V.; and Marlow, James F.,3,421,969.
Marlow, William Henry; Maroney, Matthew Henry; and Stevenson, Samuel Reid, to American Cyanamid Company. Liquid filling machine. 3,420,282, 1-7-69, Cl. 141-157.
Marmsater, Tore Gustav Fredrik, to AB Rosenblads Patenter. Arrangement in tube heat exchangers with tubes of the plate or flat type. 3,464,488, 9-2-69, Cl. 165-166.
Marnati, Maria Pia: *See—*
Bianchi, Maria Luisa; Franceschi, Giovanni; Marnati, Maria Pia; and Spalla, Celestino,3,467,579.
Marner, Gene R., to Collins Radio Company. Method and means for detecting air turbulence. 3,465,339, 9-2-69, Cl. 343-100.
Marondel, Gunther: *See—*
Gawlick, Heinz; Marondel, Gunther; Bendler, Hellmut; and Siegelin, Werner,3,468,730.
Stadler, Hans; Gawlick, Heinz; and Marondel, Gunther,3,446,146.
Maroney, Matthew Henry: *See—*
Marlow, William Henry; Maroney, Matthew Henry; and Stevenson, Samuel Reid,3,420,282.
Maroon, Barbara Jo. Amusement ride. 3,452,681, 7-1-69, Cl. 104-62.
Maropis, Nicholas; and Jones, James Byron, to Sonobond Corporation, mesne. Vibratory welding apparatus and method. 3,429,028, 2-25-69, Cl. 29-470.1
Marosi, Gilbert; and Soderquist, Donn W., to Singer-General Precision, Inc. Vehicle presence detector system. 3,451,041, 6-17-69, Cl. 340-38.
Marotta, Nicholas G.; and Bell, Harvey, to National Starch and Chemical Corporation. Method of preparing pregelatinized starch compositions. 3,464,857, 9-2-69, Cl. 127-71.
Marotta, Nicholas G.; Bell, Harvey; and Ronai, Kenneth S., to National Starch and Chemical Corporation. Process for preparing deep-fried foodstuffs. 3,482,984, 12-9-69, Cl. 99-1.
Marotta, Nicholas G.; Boettger, Richard M.; Nappen, Bernard H.; and Szymanski, Chester D., to National Starch and Chemical Corporation. Method of encapsulating water insoluble substances and product thereof. 3,455,838, 7-15-69, Cl. 252-316.
Marotta, Nicholas G.; Trubiano, Paolo C.; and Ronai, Kenneth S., to National Starch and Chemical Corporation. Pulpy textured food systems containing inhibited starches. 3,443,964, 5-13-69, Cl. 99-83.
Marotta, Ralph, to Monsanto Company. Method of preparing silica materials. 3,428,425, 2-18-69, Cl. 23-182.
Marotta, Ralph; and Teicher, Harry, to Monsanto Company. Flatted coating compositions containing silica aerogel and processes for preparing same. 3,453,127, 7-1-69, Cl. 106-192.
Marotta, Ralph: *See—*
Teicher, Harry; and Marotta, Ralph,3,455,826.
Marotta Valve Corporation: *See—*
Haupt, Aleksander, 3,455,323.
Janczur, Zbigniew J., 3,461,911.
Janczur, Zbigniew J., 3,472,483.
Petry, Henry Alfred, 3,472,264.
Smolen, Sam Robert, 3,456,915.
Tillman, Alfred, 3,460,081.
Tillman, Alfred, 3,476,141.
Worden, Donald A., 3,477,463.
Marouby, Guy, to Societe Anonyme D.B.A. Fluid level indicator. 3,461,447, 8-12-69, Cl. 340-244.
Marozzi, Alfred A. Ink reservoir device for printing wheels. 3,457,854, 7-29-69, Cl. 101-35.
Marquardt Corporation, The: *See—*
Boe, Rollin O., 3,451,221.
Braendlein, Robert K., 3,450,141.
Builder, Carl H., 3,452,541.
Marquardt, J., & J., Firma: *See—*
Schenke, Werner, 3,432,632.
Marquardt, Max, to Marquardt-Hudes, Inc. Clasp construction. 3,462,807, 8-26-69, Cl. 24-230.
Marquardt-Hudes, Inc.: *See—*
Marquardt, Max, 3,462,807.
Marquetant, Alfred: *See—*
Zweifel, Walter; Schneeberger, Fritz; and Marquetant, Alfred,3,425,918.
Marquette Corporation: *See—*
MacCrea, Richard S., 3,483,460.
Olsen, Dick M., 3,451,261.
Schaefer, Joseph H., 3,483,461.
Marquette Metal Products Company, The: *See—*
Sacchini, Columbus R.; and Lowery, Robert D., 3,451,512.
Marquez, Joseph A.: *See—*
Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A.,3,454,696.
Marquis, Charles F.; Driay, Pierre G.; and Lambilliotte, Paul P. Apparatus for analyzing graphically plotted information. 3,474,240, 10-21-69, Cl. 235-185.

Marquis, David M., to Chevron Research Company. Noncaking linear secondary alkyl sulfonate and sulfate detergent compositions. 3,424,690, 1-28-69, Cl. 252-137.
Marquis, David M., to Chevron Research Company. Straight-chain alkyl aryl sulfonate detergent compositions. 3,446,743, 5-27-69, Cl. 252-161.
Marquis, David M., to Chevron Research Company. Sulfosuccinate salt solubilization of fumaric acid. 3,470,213, 9-30-69, Cl. 252-363.5
Marquis, Donald Peter, to General Motors Corporation. Idler arm assembly. 3,476,419, 11-4-69, Cl. 287-117.
Marquis, Theodore M.; and Crabb, John A. Carton stapling machine. 3,473,720, 10-21-69, Cl. 227-100.
Marr, Claude: *See—*
Binon, Fernand; Ziegler, Herbert; and Marr, Claude,3,462,485.
Marr, Fritz, to Golde, H. T., G.m.b.H., Firma. Guiding arrangement for sliding windows of automotive vehicles. 3,427,748, 2-18-69, Cl. 49-352.
Marra, Daniel A., Sr. Torch tip guard. 3,463,403, 8-26-69, Cl. 239-288.5
Marra, Dorothea: *See—*
Osipow, Lloyd I.; and Marra, Dorothea,3,472,940.
Marra, Thomas: *See—*
Sichel, Leonard H., Jr.; Hallman, Henry R.; and Marra, Thomas,3,482,214.
Marrable, Christopher David, to Imperial Chemical Industries Limited. Water-insoluble malononitrile-derived styryl dyestuffs. 3,435,062, 3-25-69, Cl. 260-465.
Marrable, Christopher David, to Imperial Chemical Industries Limited. 4-N-Alkyl-N-[β-(β'-phthalimido ethoxy) ethyl]amino-τ,τ-dicyanostyrenes. 3,483,218, 12-9-69, Cl. 260-326.
Marrero, Tomas R.: *See—*
Bush, Richard W.; and Marrero, Tomas R.,3,463,767.
Marrian, Stanley Frederic, to British Hydrocarbon Chemicals Limited. Production of sulphonic acids. 3,423,454, 1-21-69, Cl. 260-513.
Marrian, Stanley Frederic; and Wirth, Max Marin, to British Hydrocarbon Chemicals Limited, mesne. Production of dicarboxylic acids. 3,427,350, 2-11-69, Cl. 260-537.
Marrick Manufacturing Co., Limited: *See—*
Plummer, Henry J., 3,449,792.
Marrina, Stanley Frederic, to British Hydrocarbon Chemicals Limited. Production of sulphonic acids with actinic radiation. 3,454,481, 7-8-69, Cl. 204-162.
Marriott, Anthony G., to Dunlop Company Limited, The. Method for coating surfaces comprising a rubber composition. 3,475,197, 10-28-69, Cl. 117-72.
Marriott, Jean A.: *See—*
Turco, Joseph Francis; and Marriott, Jean A.,3,420,881.
Marriott, Roger, to Barnes Drill Co. Apparatus and method for cleaning dirty liquid. 3,456,797, 7-22-69, Cl. 210-73.
Marron, John W. Slope cutting attachment for bulldozers. 3,430,706, 3-4-69, Cl. 172-802.
Marrs, Oren L.: *See—*
Cook, Jack E.; and Marrs, Oren L.,3,428,618.
Marrujo, Fernando G.; and Wiese, Winfred J., to Borg-Warner Corporation. Mechanical seal assembly. 3,447,809, 6-3-69, Cl. 277-27.
Mars, Robert B. Educational game. 3,429,572, 2-25-69, Cl. 273-95.
Marsan, David R.; and Kaufman, Harold B., to Marsan Manufacturing Co., Inc., The. Colostomy appliance. 3,483,868, 12-16-69, Cl. 128-283.
Marsan Manufacturing Co., Inc., The: *See—*
Marsan, David R.; and Kaufman, Harold B., 3,483,868.
Marscar Limited: *See—*
Scarfe, Peter Noel Henry, 3,428,077.
Marschner, Frank William, to Colgate-Palmolive Company. Film-forming composition containing a phosphatide and a siloxane. 3,470,292, 9-30-69, Cl. 424-47.
Marsden, Charles F., Jr.: *See—*
Vanderbilt, Byron M.; and Marsden, Charles F., Jr.,3,447,572.
Marsden, Harry, to Rigby, Robert, Limited. Film synchronizer. 3,427,099, 2-11-69, Cl. 352-12.
Marsden, Howard A.: *See—*
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.
Marsden, James G.: *See—*
Sterman, Samuel; and Marsden, James G.,3,434,914.
Sterman, Samuel; and Marsden, James G.,3,441,466.
Sterman, Samuel; and Marsden, James G.,3,454,454.
Sterman, Samuel; and Marsden, James G.,3,472,729.
Sterman, Samuel; and Marsden, James G.,3,485,780.
Marsden, John Henry Edgar: *See—*
Holland, Frank Stanley; Marsden, John Henry Edgar; and Pemberton, Denis,3,458,559.
Marsden, Peter D., to Shell Oil Company. Styrene polymer particles coated with hydroxy amides. 3,429,737, 2-25-69, Cl. 117-100.
Marsee, Frederick J.; and Eltinge, Lamont, to Ethyl Corporation. Carburetor nozzle. 3,472,495, 10-14-69, Cl. 261-76.
Marsell, Paul H. Means for interchangeably shifting from left to right-hand drive. 3,453,003, 7-1-69, Cl. 280-95.
Marsh, Benjamin H.; and Sweet, John R., III, to Icore Industries. Quick release inspection head with magnetic holding means. 3,458,674, 7-29-69, Cl. 200-61.41
Marsh, Byron E.: *See—*
Betty, Roy J.; Marsh, Byron E.; and Marsh, Frederick S.,3,437,466.
Marsh, Charles R.: *See—*
El-Kareh, Auguste B.; Marsh, Charles R.; and Fair, Richard B.,3,472,997.
Marsh, Charles W., to Dorm Corporation, The. Surface cleaner for previously polished surfaces. 3,425,870, 2-4-69, Cl. 134-6.
Marsh, Donald B.; and Sanville, Walter W., to Westinghouse Air Brake Company. Unit gain fail-safe and circuit. 3,430,066, 2-25-69, Cl. 307-218.
Marsh, Donald R., to Textron, Inc., mesne. Bearing mount assembly. 3,447,846, 6-3-69, Cl. 308-184.
Marsh, Frank D., to Du Pont de Nemours, E. I., and Company. α-Alkoxyalkylcyanamides and their preparation. 3,427,323, 2-11-69, Cl. 260-340.6
Marsh, Frederick S.: *See—*
Betty, Roy J.; Marsh, Byron E.; and Marsh, Frederick S.,3,437,466.
Marsh, Glenn A., to Union Oil Company of California, mesne. Method and apparatus for determination of redox current in redox solutions. 3,436,320, 4-1-69, Cl. 204-1.
Marsh, Glenn A.: *See—*
Fraase, Edward O.; and Marsh, Glenn A.,3,451,856.
Marsh, Harold G., to Fansteel Metallurgical Corporation, mesne. Dispersion-strengthened nickel-chromium foil. 3,446,679, 5-27-69, Cl. 148-11.5
Marsh, Harold G.: *See—*
Lambert, John B.; and Marsh, Harold G.,3,479,180.
Marsh, Hugh R. W.; and Taylor, Colin, to Masson Scott Thrissel Engineering Limited, and Walmsleys (Wigan) Ltd. Web winding mechanism. 3,450,364, 6-17-69, Cl. 242-66.
Marsh, Hugh Robert Waring; and Wilshin, Frank William, to Masson Scott Thrissell Engineering Limited. Sheet feeding mechanism. 3,430,950, 3-4-69, Cl. 271-64.
Marsh, John A., to Bostrom Manufacturing Company Limited. Construction of seats. 3,485,698, 12-23-69, Cl. 156-267.
Marsh, Joseph R., Jr., to Aloe Creme Laboratories, Inc. Method of making reconstitutable aloe gel in crystalline form. 3,470,109, 9-30-69, Cl. 252-316.
Marsh, Lynn W., Jr.; and Ladd, Frederick F., Jr., to Mohawk Data Sciences Corporation, mesne. Multiple level logic circuits. 3,427,470, 2-11-69, Cl. 307-215.
Marsh, Lynn W., Jr.: *See—*
Ladd, Frederick F., Jr.; and Marsh, Lynn W., Jr.,3,422,359.
Ladd, Frederick F., Jr.; Marsh, Lynn W., Jr.; and Muschinske, John E.,3,435,295.
Marsh, Max F.: *See—*
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F.,3,426,456.
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F.,3,431,660.
Marsh, Ogden J.: *See—*
Mayer, James W.; Marsh, Ogden J.; and Baron, Robert E.,3,424,910.
Marsh, Ralph A. Quick releasable vise. 3,468,528, 9-23-69, Cl. 269-223.
Marsh, Richard C. Guide and spacer for cutting tool. 3,435,523, 4-1-69, Cl. 30-272.
Marsh, Richard C. Cutting accessory for a power tool. 3,465,438, 9-9-69, Cl. 30-359.
Marsh, Roger F., to Consolidated Electrodynamics Corporation. Voltage to frequency converter including a feedback control circuit. 3,449,695, 6-10-69, Cl. 332-9.
Marsh, Stanley Bruce: *See—*
Sandbank, Carl Peter; King, George; and Marsh, Stanley Bruce,3,479,611.
Marsh Stencil Machine Company: *See—*
Hempel, Herbert W.; and Hill, Forest G., 3,429,492.
Marsh, Walter H., to Rockwell Manufacturing Company. Hydraulic mechanism. 3,426,694, 2-11-69, Cl. 103-125.
Marsh, Walter R.; and Davis, Edward J., to Thiokol Chemical Corporation. Rocket motor thrust nozzles with means to direct atmosperic air into the interior of the nozzle. 3,469,787, 9-30-69, Cl. 239-127.3
Marsh, William C.: *See—*
Mishkin, Abraham R.; Marsh, William C.; and Fobes, Alfred W.,3,451,823.
Marsh, William J.: *See—*
Gladden, David J.; and Marsh, William J.,3,457,021.
Marsh, William S.: *See—*
Rao, Koppaka V.; Marsh, William S.; and Renn, Donald W.,3,423,398.

Marshack, Irving L., to Mobay Chemical Company, mesne. Method of bonding thermoplastic film to polyurethane foam and product. 3,437,551, 4n8-69, Cl. 161-160.
Marshack, Irving L., to Califoam Corporation of America. Cushions. 3,486,177, 12-30-69, Cl. 5-347.
Marshak, Martin A. System of making fibrous-filled furniture seat and back cushion elements. 3,439,397, 4-22-69, Cl. 29-91.
Marshall Aluminum Products Inc.: *See—*
Givot, Martin D.; and Stuart, Marshall J., 3,425,725.
Marshall, Alvin E.: *See—*
Blythe, Richard; Marshall, Alvin E.; Mitchell, Claybourne, Jr.; Oser, George T.; and Scott, Gerald C.,3,448,267.
Marshall, Arthur N. Apparatus for speed indication. 3,441,207, 4-29-69, Cl. 235-61.
Marshall, Burton H. Magazine counting and destroying apparatus. 3,431,804, 3-11-69, Cl. 83-103.
Marshall, Burton H., to Canyon Research Corporation. Magazine counting and destroying apparatus. 3,431,805, 3-11-69, Cl. 83-103.
Marshall, Charles, to D & G Plastic Co. Quick-connect coupling assembly. 3,429,596, 2-25-69, Cl. 285-340.
Marshall, David J., to American Home Products Corporation. Estra-1,3,5(10),7-tetraenes and process of preparation. 3,470,159, 9-30-69, Cl. 260-239.55
Marshall, David J.; and Le Febvre, Yvon, to American Home Products Corporation. 7α,8-Epoxyestra-1,3,5(10)triene-3,17-diols. 3,455,906, 7-15-69, Cl. 260-239.55
Marshall, David J.: *See—*
Kruger, Gunther; and Marshall, David J.,3,462,424.
Kruger, Gunther; and Marshall, David J.,3,471,479.
Laudise, Robert A.; and Marshall, David J.,3,440,025.
Marshall, David; and Lloyd, Arthur Leslie, to Hobson, H. M., Limited. Fuel supply systems for aircraft jet engines. 3,449,909, 6-17-69, Cl. 60-39.28
Marshall, Donald E., Jr.; and Piccirilli, Albert T., to Honeywell, Inc., mesne. Flip-flop circuit. 3,430,070, 2-25-69, Cl. 307-247.
Marshall, Donald G., to Exact Weight Scale Corporation. Weighing scale. 3,443,653, 5-13-69, Cl. 177-225.
Marshall, Ernest S., to Elk Industries Ltd. Boom chain threading apparatus. 3,482,393, 12-9-69, Cl. 59-35.
Marshall, Fay E., to Mellcor Corporation. Algaecide and process of making the same. 3,437,472, 4-8-69, Cl. 71-67.
Marshall, Fred C. Guitar neck connection. 3,447,412, 6-3-69, Cl. 84-267.
Marshall, Frederick George; and Ravenscroft, Greville Sandford, to English Rose Kitchen Limited. Milking cooling and cold storage apparatus. 3,448,589, 6-10-69, Cl. 62-125.
Marshall, Geoffrey; and Smith, Gordon Ernest, to Courtaulds Limited. Polymerization of caprolactam in the presence of catalyst, initiator and a crystallization modifier. 3,470,139, 9-30-69, Cl. 260-78.
Marshall, Hamilton W., Jr.; and Helms, Charles C., to Perkin-Elmer Corporation, The. Double-pass grating monochromator with intermediate slit. 3,454,339, 7-8-69, Cl. 356-100.
Marshall, Harry Lee. Pincushion correction circuit. 3,444,423, 5-13-69, Cl. 315-24.
Marshall, Harry L., to Varian Associates. Superconductive magnet employing one power supply for sequential energization of separate winding sections. 3,474,295, 10-21-69, Cl. 317-13.
Marshall, Hedley Samuel Bowdon; and Williams, Thomas Richard, to Midland Silicones Limited. Organopolysiloxane antifoam compositions. 3,423,340, 1-21-69, Cl. 260-13.
Marshall, Herbert A. Method of preparing coated asbestos cement shingle and product thereof. 3,462,287, 8-19-69, Cl. 117-37.
Marshall, Herbert Charles, Jr., to Reynolds Metals Company. Forming slots in Soderberg anodes. 3,438,876, 4-15-69, Cl. 204-67.
Marshall, Herbert Charles, Jr.: *See—*
Kibby, Robert Milton; Marshall, Herbert Charles, Jr.; and Richards, Nolan Earle,3,471,390.
Marshall, Howard D., to Western Electric Company, Incorporated. Electronic shift register utilizing a semiconductor switch, silicon-controlled rectifiers, and capacitors for sequencing operation. 3,482,114, 12-2-69, Cl. 307-221.
Marshall, James K.: *See—*
Woods, Weightstill W.; Martin, Dale L.; and Marshall, James K.,3,462,224.
Marshall, Jimmy W.: *See—*
Goodloe, David K.; and Marshall, Jimmy W.,3,486,562.
Marshall, John Donald: *See—*
Adams, Russell E., 3,439,716.
Berry, Ronald, 3,425,461.
Brown, Ralph H., Jr., 3,444,899.
Brown, Ralph H., Jr., 3,467,148.
Budzyna, Joseph M.; and Mucciarone, Rocco H., 3,444,904.
Consoletti, Paul C., 3,467,811.
Cugini, John A.; and Chabot, Leo L., 3,425,395.
Dubois, Joseph W., 3,444,678.
Mallard, Robert G., 3,448,776.
Nichols, Edward C.; and Tiernan, Stanley C., 3,425,458.
Nydam, John H., 3,442,301.
Papelian, Roger G.; and Fontaine, Andre J., 3,442,300.
Papelian, Roger G.; and Budzyna, Walter James, 3,444,903.
Petko, Michael A.; and Burger, Theodore G., 3,439,512.
Sotek, Stanley J., 3,421,552.
Sprague, Frederick L., 3,433,430.
Thibault, Harrison N.; and Tosches, Anthony J., 3,431,951.
Volpe, Richard L., 3,425,459.
Wiesinger, Frederick C.; Lyster, Thomas C.; and Reisener, William C., Jr., 3,423,960.
Wiesinger, Frederick C., 3,425,242.
Wiesinger, Frederick C., 3,425,243.
Wiesinger, Frederick C.; and Petko, Michael A., 3,425,244.
Wiesinger, Frederick C., 3,427,829.
Marshall, John E., Jr.: *See—*
Martinez, Arfilio J., 3,440,317.
Marshall, John L., Jr.: *See—*
Barlow, Paul D.; and Marshall, John L., Jr.,3,422,516.
Barlow, Paul D.; and Marshall, John L., Jr.,3,478,398.
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John,3,441,775.
Marshall, Kenneth H. Jig to be used in dentistry. 3,445,935, 5-27-69, Cl. 32-40.
Marshall, Louis, to Lummus Company, The. Automatic control of reflux rate in a gas separation fractional distillation unit. 3,421,610, 1-14-69, Cl. 196-99.
Marshall, Louis. Automatic control of gas absorption unit. 3,446,709, 5-27-69, Cl. 196-132.
Marshall, Mervin D.; and Lewis, Leon L., to Mine Safety Appliances Company. Production of nitrogen-halogen compounds. 3,472,634, 10-14-69, Cl. 23-356.
Marshall, Neil: *See—*
Heartstedt, Edmund; and Marshall, Neil,3,460,566.
Marshall, Peter W., to Shell Oil Company. Method of anchoring marine structures. 3,483,708, 12-16-69, Cl. 61-46.5
Marshall, Preston, F., to Kendall Company, The. Method and apparatus for producing a novelty loop yarn. 3,438,186, 4-15-69, Cl. 57-6.
Marshall, Preston F., to Kendall Company, The. Novelty loop yarn and process therefor. 3,458,988, 8-5-69, Cl. 57-144.
Marshall, Preston F., to Kendall Company, The. Draftable novelty yarns and process therefor. 3,477,220, 11-11-69, Cl. 57-140.
Marshall, Robert F.: *See—*
Bellinger, James E.; and Marshall, Robert F.,3,444,556.
Marshall, Robert H., to Chemetron Corporation. Transferring system. 3,452,504, 7-1-69, Cl. 53-29.
Marshall, Robert M.; and Wittebort, Robert W., to Allegheny Plastics, Inc. Reinforcing support structure. 3,451,452, 6-24-69, Cl. 150-0.5
Marshall, Roger D. Method of printing optical coincidence cards. 3,421,438, 1-14-69, Cl. 101-211.
Marshall, Roger D. Optical coincidence information retrieval system. 3,480,764, 11-25-69, Cl. 235-61.12
Marshall, Sidney: *See—*
Glendinning, William B.; and Marshall, Sidney,3,422,442.
Marshall, Theodore W.; Rankin, Frederick W.; and Willett, Norman E., to Robertson, H. H., Company. Air conditioning apparatus. 3,445,317, 5-20-69, Cl. 165-39.
Marshall, Thomas E., III: *See—*
Bridge, Richard B.; and Marshall, Thomas E., III,3,430,217.
Marshall, Thomas G., to Radio Corporation of America. Ladder network filters having a negative re- sistance to compensate for lossy reactive components in the filter. 3,439,291, 4-15-69, Cl. 333-6.
Marshall, Walter H.: *See—*
Sprude, Edgar O.; and Marshall, Walter H.,3,467,892.
Marshall, William E.; and Kerschbaum, Arthur P., to Armco Steel Corporation. Method of blast furnace reduction of iron ores. 3,458,307, 7-29-69, Cl. 75-42.
Marshall, William F.: *See—*
Panofsky, Wolfgang K. H.; and Marshall, William F.,3,470,460.
Marshall, William J., to Du Pont de Nemours, E. I., and Company. Golden flake pigments coated with silver and hydrous oxides. 3,440,075, 4-22-69, Cl. 106-291.
Marshner, Robert L. Reverse forming arrangement and method. 3,475,944, 11-4-69, Cl. 72-347.
Marsico, William E., to Columbian Carbon Company. Homogeneous iron coordination catalysts. 3,457,186, 7-22-69, Cl. 252-429.
Marsilio, Joseph V.; and Reihman, Richard F., to Bethlehem Steel Corporation. Preheating and sealing device for a conduit connected to the vacuum chamber of a metal degassing apparatus. 3,479,486, 11-18-69, Cl. 219-385.
Marsing, Helmut: *See—*
Bogner, Gunther; and Marsing, Helmut,3,436,926.
Marsland, Jack Ronald; and Malloch, Alexander Stirling, to Worthington-Simpson Limited. Liquid pumping systems. 3,465,779, 9-9-69, Cl. 137-118.
Marsocci, Samuel F.: *See—*
Hoffmann, Hermann; and Marsocci, Samuel F.,3,440,288.
Marson, George J.; and Smith, William H., to Metro Hospital Supply Co., Inc. Oxygen tent suspension. 3,483,880, 12-16-69, Cl. 135-5.

Marsten, Joseph A.: *See—*
Swing, Richard E.; and Marsten, Joseph A.,3,484,154.
Marston, Arthur E., to United States of America, Navy. Omnidirectional retrodirective antenna. 3,422,436, 1-14-69, Cl. 343-754.
Marston, Arthur E., to United States of America, Navy. Reciprocal omni-directional rapid scan antenna system. 3,422,437, 1-14-69, Cl. 343-754.
Marston, Arthur E. Conjugate pair feed system for antenna array. 3,422,438, 1-14-69, Cl. 343-854.
Marston, Arthur E., to United States of America, Navy. Nonreciprocal omnidirectional rapid scan antenna system. 3,438,038, 4-8-69, Cl. 343-754.
Marston, Arthur E.; and Reuss, Max L., Jr., to United States of America, Navy. Reciprocal conjugate pair feed sysem for antenna array. 3,457,509, 7-22-69, Cl. 325-21.
Marston Excelsior Limited: *See—*
Rawlings, Bernard Samuel, 3,469,623.
Marszal, Rumfil T. Rotating internal combustion engine. 3,452,724, 7-1-69, Cl. 123-16.
Martel, Bob E.: *See—*
Baker, Charles E.; Martel, Bob E.; and Slocum, George J.,3,471,641.
Martel, Jacques; Huynh, Chanh; Toromanoff, Edmond; and Nomine, Gerard, to Roussel-Uclaf. Novel process for the preparation of trans- chrysanthemumic acid. 3,445,499, 5-20-69, Cl. 260-464.
Martel, Jean-Guy: *See—*
Baron, Clafford, 3,470,593.
Martel, Richard A.; Davis, William R.; and Sutton, Carl E., to United States of America, Navy. Stored impedance image-translucent screen. 3,478,217, 11-11-69, Cl. 250-213.
Martel, Robert W.: *See—*
Brynko, Carl; and Martel, Robert W.,3,422,759.
Martel, Robert W.; Weigl, John W.; and Mammino, Joseph, to Xerox Corporation. Imaging system. 3,455,240, 7-15-69, Cl. 101-450.
Martel, Rock F: *See—*
Buckler, Sheldon A.; Martel, Rock F; and Moshy, Raymond J.,3,472,835.
Martelee, Ghislain Antoine Jean-Marie, to Cockerill-Ougree-Providence. Method of actuating machines such as a tilting device for ingots. 3,456,823, 7-22-69, Cl. 214-152.
Martell, Michael Joseph, Jr.; and Ross, Adma Schneller,, to American Cyanamid Company. Process for preparing 6-deoxytetracyclines. 3,442,943, 5-6-69, Cl. 260-559.
Martell, Richard M.: *See—*
Praeger, Donald L.; Martell, Richard M.; and Miller, Sidney N.,3,484,155.
Martelli, Francesco: *See—*
Martelli, Guido; Martelli, Nerio; and Martelli, Francesco,3,464,618.
Martelli, Guido; Martelli, Nerio; and Martelli, Francesco. Reinforced-rim pocket pack of thin plastic material, for few fruits or like articles. 3,464,618, 9-2-69, Cl. 229-2.5
Martelli, Nerio: *See—*
Martelli, Guido; Martelli, Nerio; and Martelli, Francesco,3,464,618.
Martelli, Nerio, to Nypak Corporation. Apparatus for the production of plastic hollow bodies. 3,473,192, 10-21-69, Cl. 18-5.
Martello, Norman E.; and Kepple, Charles G., to Westinghouse Electric Corporation. Manufacture of flexible foil clad laminates. 3,473,992, 10-21-69, Cl. 156-314.
Martello, Norman E.: *See—*
Kepple, Charles; Martello, Norman E.; and Zeise, Clarence L., Jr.,3,473,993.
Martellock, Arthur C., to General Electric Company. Polydiorganosiloxane containing silica filler and structure control agent. 3,464,945, 9-2-69, Cl. 260-29.1
Marten, Jerome H., to Chemical Construction Corporation. Apparatus for condensation of pure solid melamine. 3,451,787, 6-24-69, Cl. 23-288.
Martens, Adolf: *See—*
Nimtz, Klaus; Grapp, Hans; and Martens, Adolf,3,430,431.
Martens, Alexander E., to Bausch & Lomb Incorporated. Analog measuring apparatus. 3,431,760, 3-11-69, Cl. 72-9.
Martens, Alexander E., to Bausch & Lomb, Incorporated. Digitally programmed position motor control. 3,439,241, 4-15-69, Cl. 318-18.
Martens, Alexander E., to Bausch & Lomb, Incorporated. Electrical control system for repetitive operation. 3,445,639, 5-20-69, Cl. 235-151.1
Martens, Alexander E., to Bausch & Lomb, Incorporated. Temperature compensating circuit for photomultiplier tubes. 3,445,664, 5-20-69, Cl. 250-207.
Martens, Alexander E., to Bausch & Lomb Incorporated. Temperature compensating circuits for photoelectric devices. 3,465,157, 9-2-69, Cl. 250-207.
Martens, Alexander E., to Bausch & Lomb, Incorporated. Automatic gain control for self-calibrating a detection system. 3,487,222, 12-30-69, Cl. 250-214.
Martens, Alexander E.; and Sullivan, Bernard J., to Bausch & Lomb, Incorporated. Concentration computer with logarithmic computation of photometric apparatus readings. 3,428,796, 2-18-69, Cl. 235-193.
Martens, Charles H., to United States of America, Army. Transpiratory cooling by expendable inserts. 3,464,208, 9-2-69, Cl. 60-265.
Martens, Charles H., to United States of America, Army. Controlled growth of fatigue cracks by electromagnetic means. 3,482,437, 12-9-69, Cl. 73-91.
Martens, David G.; and Craft, Edward P., to United States of America, Agriculture. Process and apparatus for leveling floors. 3,447,279, 6-3-69, Cl. 52-741.
Martens, David, to EPM Manufacturing Co., Ltd. Electrode assembly for liquid level controllers. 3,461,722, 8-19-69, Cl. 73-304.
Martens, Gerhard; Bauer, Karl; Turk, Herbert; and Schiminski, Herbert, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Inductively heatable galette. 3,487,187, 12-30-69, Cl. 219-10.61
Martens, Guy, to Solvay & Cie. Procedure for the thermal cracking of hydrocarbons. 3,480,686, 11-25-69, Cl. 260-679.
Martens, Jack E., to American Motors Corporation. Vehicle quarter window arrangement. 3,422,574, 1-21-69, Cl. 49-351.
Martens, Jean Victor, to International Standard Electric Corporation. Variable gain amplifier and circuits using same. 3,482,180, 12-2-69, Cl. 330-51.
Martens, Jean Victor; and Natens, Marcel Clement Rene, to International Standard Electric Corporation. Code checking circuit and multifrequency data receiver. 3,470,532, 9-30-69, Cl. 340-146.1
Martens, Melvin; and Musson, Chester G., to Gilford Instrument Laboratories, Inc. Pulse repetition rate servo system. 3,487,458, 12-30-69, Cl. 318-18.
Martensen Enterprises Inc.: *See—*
Smith, John D., 3,452,829.
Martenson, Irvin W.: *See—*
Giangualano, Michael N.; Martenson, Irvin W.; and Ott, Lawrence H.,3,462,267.
Marthins, Nils Lennart, to Aktiebolaget Gotaverken. Internal combustion engine V block cam transmission. 3,482,554, 12-9-69, Cl. 123-55.
Marti, Antonio Soler; Marti, Jan Soler; Marti, Jose Soler; and Marti, Marie Soler. Keyless latch. 3,423,972, 1-28-69, Cl. 70-305.
Marti, Antonio Soler; Marti, Juan Soler; Marti, Jose Soler; and Marti, Mario Soler. Latching device. 3,440,845, 4-29-69, Cl. 70-310.
Marti, Fritz, to Portescap, Le Porte-Echappement Universel S.A. Oscillator device for timepiece mechanisms. 3,428,879, 2-18-69, Cl. 318-128.
Marti, Fritz, to Portescap, Le Porte-Echappement Universel S.A. Ratchet mechanism. 3,433,093, 3-18-69, Cl. 74-578.
Marti, Fritz, to Portescap, Le Porte-Echappement Universel S.A. Vibrator device. 3,448,304, 6-3-69, Cl. 310-15.
Marti, Fritz, to Portescap, Le Porte-Echappement Universel S.A. Regulator device for watch movement. 3,451,212, 6-24-69, Cl. 58-109.
Marti, Fritz, to Portescap, Le Porte-Echappement Universel S.A. Bearing for watch pivot. 3,478,509, 11-18-69, Cl. 58-140.
Marti, Fritz, to Portescap, Le Porte-Echappement Universel S.A. Bearing for watch piece pivot. 3,478,510, 11-18-69, Cl. 58-140.
Marti, Jan Soler: *See—*
Marti, Antonio Soler; Marti, Jan Soler; Marti, Jose Soler; and Marti, Marie Soler,3,423,972.
Marti, Jose Soler: *See—*
Marti, Antonio Soler; Marti, Jan Soler; Marti, Jose Soler; and Marti, Marie Soler,3,423,972.
Marti, Antonio Soler; Marti, Juan Soler; Marti, Jose Soler; and Marti, Mario Soler,3,440,845.
Marti, Juan Soler: *See—*
Marti, Antonio Soler; Marti, Juan Soler; Marti, Jose Soler; and Marti, Mario Soler,3,440,845.
Marti, Marie Soler: *See—*
Marti, Antonio Soler; Marti, Jan Soler; Marti, Jose Soler; and Marti, Marie Soler,3,423,972.
Marti, Mario Soler: *See—*
Marti, Antonio Soler; Marti, Juan Soler; Marti, Jose Soler; and Marti, Mario Soler,3,440,845.
Martin & Botting Developments Limited: *See—*
Martin, George Roy; and Botting, John Robert, 3,485,038.
Martin & Pagenstecher Aktiengesellschaft: *See—*
Cronert, Wolfgang, 3,473,793.
Martin, Alfred W.; Walker, James W.; McNair, William T., Jr.; and Hood, Coy H., to Celanese Corporation. Method for preparation of alkanediols. 3,432,560, 3-11-69, Cl. 260-635.
Martin, Allan D.; and Houvener, Irving S., to Dow Chemical Company, The. Method of extruding tubular webbing and cross- ribbed tubular film. 3,478,139, 11-11-69, Cl. 264-167.
Martin, Alphonse. Optical distance detecting devices. 3,455,243, 7-15-69, Cl. 102-70.2
Martin, Alphonse. Motion picture apparatus. 3,471,228, 10-7-69, Cl. 352-191.
Martin, Angelo Joseph, to Osborn Manufacturing Company, The. End brush assembly. 3,421,172, 1-14-69, Cl. 15-180.

Martin, Arthur Seymon. Centrifugal separation of liquid solutions into fractions having higher and lower solute concentrations. 3,460,749, 8a12-69, Cl. 233-1.
Martin, Bill G.: *See—*
Adams, John N., Jr.; Martin, Bill G.; and Brown, James O.,3,481,681.
Martin, Bill V. Portable saw. 3,469,313, 9-30-69, Cl. 30-167.
Martin Brothers Electric Company, The: *See—*
Martin, George H., 3,466,411.
Martin, Carl E., to Clare-Pendar Co. Shock resistant multiple switch assembly. 3,432,624, 3-11-69, Cl. 200-5.
Martin, Carl E., to Clare-Pendar Co. Conductor apparatus for switch structure. 3,467,802, 9-16-69, Cl. 200-167.
Martin, Cass J. Control unit for generator power plant. 3,456,120, 7-15-69, Cl. 290-31.
Martin, Cecil G., to Energy Technology, Inc. Liquid ring mechanism and method. 3,484,038, 12-16-69, Cl. 230-75.
Martin, Charles F. Pipeline trenching apparatus. 3,429,131, 2-25-69, Cl. 61-72.4
Martin, Charles F. Submarine pipeline trenching machine. 3,429,132, 2-25-69, Cl. 61-72.4
Martin, Charles J.: *See—*
McNulty, Frank E.; Nee, Robert M.; and Martin, Charles J.,3,420,722.
Martin, Charles W., to Opcalite, Inc. Microminiature lamp assemblies. 3,465,197, 9-2-69, Cl. 313-318.
Martin, Claude Raymond Marie, to Societe Industrielle Bull-General Electric (Societe Anonyme). Magnetic holding means for type members in selective printing machines. 3,435,756, 4-1-69, Cl. 101-93.
Martin, Colin E., to Wilkinson Sword Limited. Electrolytic method of sharpeneing the edge of a metal member. 3,438,880, 4-15-69, Cl. 204-142.
Martin, Dale L.: *See—*
Woods, Weightstill W.; Martin, Dale L.; and Marshall, James K.,3,462,224.
Martin, Daniel W., to Baldwin, D. H., Company. Multiple speaker sound output system for reducing intermodulation distortion. 3,467,758, 9-16-69, Cl. 84-1.02
Martin, Daniel W.; and Bereskin, Alexander B., to Baldwin, D. H., Company. Randomly-perturbed, locked-wave generator. 3,479,440, 11-18-69, Cl. 84-1.25
Martin, Daniel W.; and Ziegler, James F., to Baldwin, D. H., Company. Inter-note coupling means for an electropiano. 3,470,305, 9-30-69, Cl. 84-1.16
Martin, Daryl T., to Hoerner-Waldorf Corporation. Paperboard pallets. 3,464,370, 9-2-69, Cl. 108-56.
Martin, Daryl T., to Hoerner-Waldorf Corporation. Glass packing pad. 3,465,877, 9-9-69, Cl. 206-65.
Martin, David D.: *See—*
Belasco, Melvin; Howeth, Bobby W.; Martin, David D.; and Wende, Price T.,3,468,659.
Martin, David D., to Texas Instruments, Incorporated. Structure and fabrication of microwave oscillators. 3,435,306, 3-25-69, Cl. 317-237.
Martin, David James, to Coal Industry (Patents) Limited. Remote element selection systems. 3,487,366, 12-30-69, Cl. 340-147.
Martin, Dennis: *See—*
Ogle, Joseph Eric; and Martin, Dennis,3,438,236.
Martin, Dennis, to Davy and United Engineering Company, Limited. Piling mechanism. 3,422,968, 1-21-69, Cl. 214-6.
Martin, Donald J., to Stauffer Chemical Company. Novel dialkenyl polysulfide-sulfur compositions. 3,437,498, 4-8-69, Cl. 106-19.
Martin, Donald J., to Stauffer Chemical Company. Process for preparing organic ethers and sulfide ethers. 3,470,206, 9-30-69, Cl. 260-327.
Martin, Donald L.; and Benz, Mark G., to General Electric Company. Method of making superconductors containing flux traps. 3,429,032, 2-25-69, Cl. 29-599.
Martin, Dorothy Patricia: *See—*
Martin, Gustav J.,3,457,345.
Martin, Edward J., Jr.: *See—*
Tregay, John L.; and Martin, Edward J., Jr.,3,476,382.
Martin, Edward J.; and Radcliffe, Bryan R., to A.P.V.-Kestner Limited. Heat exchanger. 3,458,942, 8-5-69, Cl. 34-57.
Martin, Edward Rankine, to Fraser & Glass Limited. Forming of articles from plastic material by injection moulding. 3,424,837, 1-28-69, Cl. 264-252.
Martin, Ellwood T., Jr.: *See—*
Cherkas, Max A.; and Martin, Ellwood T., Jr.,3,439,089.
Martin, Emmett Virgil, to Eastman Kodak Company. Covered yarn of plural elastomeric filaments secured in deformable planar relationship. 3,464,197, 9-2-69, Cl. 57-152.
Martin Engineering Company: *See—*
Bowerman, Martin, 3,457,809.
Martin, Ernest N. Dispenser for fertilizer. 3,468,457, 9-23-69, Cl. 222-55.
Martin, Ernest Norman, to Imperial Chemical Industries Limited. Gain-adaptive control system. 3,465,768, 9-9-69, Cl. 137-14.
Martin, Eugene G.: *See—*
Gehman, Roland P.; Martin, Eugene G.; and Smith, Edgar H.,3,453,678.
Martin, Eugene R.: *See—*
Funk, Wilmer E.; and Martin, Eugene R.,3,450,325.
Martin, Eugene R., to Caterpillar Tractor Company. Flywheel storage means for inertial bonding machines. 3,458,101, 7-29-69, Cl. 228-2.
Martin, Eugene R.; and Morton, David I., to Caterpillar Tractor Company. Method of fastening parts by friction welding. 3,477,115, 11-11-69, Cl. 29-470.3
Martin, Francis W., to Corning Glass Works. Kovar sealing glass. 3,420,685, 1-7-69, Cl. 106-54.
Martin, Francis W., to Corning Glass Works. Lead titanate-containing, crystallizable sealing glasses and method. 3,486,871, 12-30-69, Cl. 65-33.
Martin, Francis W.; and Smith, William C., to Corning Glass Works. Method of sealing and resilient seal for elements having different coefficients of expansion. 3,424,568, 1-28-69, Cl. 65-59.
Martin, Frank Samuel, to Gillette Company, The. Strip handling system. 3,465,935, 9-9-69, Cl. 225-103.
Martin, Frithjof, to Wander, A., Dr., S.A. Rotating drum coating apparatus. 3,451,375, 6-24-69, Cl. 118-19.
Martin, George D., to SCM Corporation, mesne. Thermofluid screen-color piece. 3,438,793, 4-15-69, Cl. 106-19.
Martin, George H., to Martin Brothers Electric Company, The. Foot-operated switch. 3,466,411, 9-9-69, Cl. 200-86.5
Martin, George J., to Parker-Hannifin Corporation. Relief-makeup check assembly for directional control valves. 3,460,567, 8-12-69, Cl. 137-596.
Martin, George J.; and Stacey, Hugh J., to Parker-Hannifin Corporation. Directional control valve. 3,426,647, 2-11-69, Cl. 91-29.
Martin, George Roy; and Botting, John Robert, to Martin & Botting Developments Limited. Hydraulically operable drive means. 3,485,038, 12-23-69, Cl. 60-22.
Martin, George, to American Standard Inc. Method for forming liquid heat exchange piping system. 3,463,691, 8-26-69, Cl. 156-294.
Martin, Gerald E.: *See—*
Sprigings, Donald G.; and Martin, Gerald E.,3,422,387.
Martin, Gerard, to Societe Anonyme dite Compagnie des Freins et Signaux Westinghouse. And type fail-safe logic circuit. 3,421,018, 1-7-69, Cl. 307-218.
Martin, Gerard, to Societe Anonyme dite Compagnie des Freins et Signaux Westinghouse. . 3,422,284, 1-14-69, Cl. 307-218.
Martin, Gerard, to Societe Anonyme dite Compagnie des Freins et Signaux Westinghouse. Safety logic circuit of the and type. 3,428,825, 2-18-69, Cl. 307-218.
Martin, Gerhard: *See—*
Ludolphy, Erich; Martin, Gerhard; and Berthmann, Adolf,3,459,608.
Martin, Gilbert: *See—*
Duport, Jacques P.; and Martin, Gilbert,3,464,357.
Martin, Glenn E.: *See—*
Schleif, Ferber R.; and Martin, Glenn E.,3,465,235.
Martin, Graham D., to Atlas Chemical Industries, Inc. Plastic primer cartridge. 3,438,325, 4-15-69, Cl. 102-24.
Martin, Gustav J., deceased0 (by Martin, Dorothy Patricia; administratrix), to Rorer, William H., Inc. Antitussive-enzyme composition containing bromelain. 3,457,345, 7-22-69, Cl. 424-94.
Martin, Hans: *See—*
Paule, Kurt; Bleicher, Manfred; Martin, Hans; Wanner, Karl; Bronnert, Helmut; and Koehler, Heinrich,3,456,740.
Martin, Harold E., to Robertson, H. H., Company. Prefabricated panel unit. 3,420,029, 1-7-69, Cl. 52-594.
Martin, Harold W., to Westinghouse Electric Corporation. Coffee maker. 3,430,232, 2-25-69, Cl. 340-417.
Martin, Harry C., to Dore, Louis A., Jr. Pool cleaner. 3,444,575, 5-20-69, Cl. 15-1.7
Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Waterproof cable joint. 3,466,384, 9-9-69, Cl. 174-92.
Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Form stabilized wave guides. 3,479,621, 11-18-69, Cl. 333-95.
Martin, Henry; Aebi, Hans; and Ebner, Ludwig, to Ciba Limited. 4-Trifluoromethyl-6,4'-dinitrodiphenyl ethers. 3,420,892, 1-7-69, Cl. 260-612.
Martin, Henry; Duerr, Dieter; Hitz, Hans Rudolf; and von Orelli, Marcus, to Ciba Limited. Method of combatting microorganisms with benzylthioureas. 3,483,296, 12-9-69, Cl. 424-322.
Martin, Hipolito Andres. Rotary variable-discharge pump with radially displaceable vanes and reversible direction of drive. 3,431,861, 3-11-69, Cl. 103-120.
Martin, Ivan Z. Hydroculture grass unit. 3,458,951, 8-5-69, Cl. 47-1.2
Martin, Ive Lee. Antenna jacking device. 3,463,454, 8-26-69, Cl. 254-93.
Martin, J. B.,-Velours Peluches, Soieries-S.A.: *See—*
Perrier, Marius Antoine, 3,429,147.

Martin, Jack L. Suspension shock absorber for tree shaking devices. 3,477,216, 11-11-69, Cl. 56-328.
Martin, Jack, to Westinghouse Electric Corporation. Means for centralizing an incandescible coil about the longitudinal lamp axis. 3,486,065, 12-23-69, Cl. 313-271.
Martin, Jacob H.: *See—*
Johnson, Theodore W.; Kalt, Charles G.; and Martin, Jacob H.,3,478,191.
Martin, James A.: *See—*
Desmond, John D.; Lesinski, Theodore S.; and Martin, James A.,3,424,367.
Giles, Cyril George; Martin, James Alexander; and Spindlow, John Richard,3,431,996.
Martin, James B., Jr. Applicator for false eyelashes. 3,478,754, 11-18-69, Cl. 132-1.
Martin, James C.; and Burpitt, Robert D., to Eastman Kodak Company. Fused cycloalkanecyclohexanediones and fused cycloalkanecyclohexenediones. 3,424,763, 1-28-69, Cl. 260-326.5
Martin, James C.; and Gott, Paul G., to Eastman Kodak Company. 2-Methylene-4-thioxo-1,3-oxathian-6-ones and their preparation. 3,442,906, 5-6-69, Cl. 260-327.
Martin, James N., Jr. Rotating shelf oven. 3,425,364, 2-4-69, Cl. 107-60.
Martin, James S.: *See—*
Bechard, John J.; Dahl, Walter L.; Martin, James S.; Workman, Clark S.; and Sankey, David J.,3,445,951.
Martin, James. Vehicle ejection seats. 3,424,408, 1-28-69, Cl. 244-122.
Martin, James. Vehicle ejection seats. 3,437,293, 4-8-69, Cl. 244-122.
Martin, James. Adjusting mechanism primarily for ejection seats. 3,437,294, 4-8-69, Cl. 244-122.
Martin, Jan W.: *See—*
Seyl, Jack W.; and Martin, Jan W.,3,471,858.
Martin, Jean Antoine; Mauguen, Pierre; and Pinault, Jacques, to Groupement Atomique Alsacienne Atlantique. Electric grab. 3,471,194, 10-7-69, Cl. 294-88.
Martin, Jerome A.: *See—*
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A.,3,461,099.
Shore, Samuel; Muzyczko, Thaddeus; and Martin, Jerome A.,3,426,081.
Martin, Jerome, Jr. Safety closure for containers. 3,468,444, 9-23-69, Cl. 215-9.
Martin, John C., to Bunn-O-Matic Corporation. Coffee making machine with holder for prepackaged ground coffee. 3,450,024, 6-17-69, Cl. 99-295.
Martin, John Christopher; and Smith, Ian Douglas, to United Kingdom Atomic Energy Authority. High-voltage pulse-generating transformers. 3,456,221, 7-15-69, Cl. 336-69.
Martin, John E.; and Czeck, Julian G., to Expando Seal Tool, Inc. Fluid flow precluding tool. 3,473,555, 10-21-69, Cl. 137-315.
Martin, John E.: *See—*
Serfass, Earl J.; Martin, John E.; and Wilson, William E., Jr.,3,441,136.
Martin, John Henry Edward James: *See—*
Mitscher, Lester Allen; and Martin, John Henry Edward James,3,446,841.
Martin, John Henry; Porter, John Norman; and Mitscher, Lester Allen, to American Cyanamid Company. Antibiotic AF283 and production thereof. 3,452,136, 6-24-69, Cl. 424-118.
Martin, John J., to Pullman Incorporated. Detachable container-chassis system. 3,425,576, 2-4-69, Cl. 214-515.
Martin, John J., to Pullman Incorporated. Container storage stilt means. 3,432,131, 3-11-69, Cl. 248-188.8
Martin, John J., to Pullman Incorporated. Multi-positionable trailer landing gear structure. 3,450,415, 6-17-69, Cl. 280-150.5
Martin, John J., to Pullman Incorporated. Container side loading system and means therefor. 3,454,173, 7--69, Cl. 214-38.
Martin, John L.: *See—*
Drechsler, Erich F.; and Martin, John L.,3,458,881.
Martin, John L., to Kearney & Trecker Corporation. Machining center with dual function tool operator. 3,477,121, 11-11-69, Cl. 29-568.
Martin, John L., to Ajem Laboratories, Inc. Dual link switch actuator. 3,485,980, 12-23-69, Cl. 200-153.
Martin, John L.; MacKey, Robert J.; and Bower, Warren H., to Beven-Herron, Inc. Releasable lumber sling device. 3,431,011, 3-4-69, Cl. 294-75.
Martin, John R., to Calumet & Hecla, Inc. Device for bending, coiling, or straightening tubing. 3,444,716, 5-20-69, Cl. 72-135.
Martin, John, to Fabricacion de Maquinas. Roll bearing structures for glass making machines. 3,420,651, 1-7-69, Cl. 65-194.
Martin, John, to Fabricacion de Maquinas. Automatic heat control apparatus. 3,424,378, 1-28-69, Cl. 236-15.
Martin, John, to Fabricacion de Maquinas. Machinery support. 3,433,615, 3-18-69, Cl. 65-193.
Martin, John, to Fabricacion de Maquinas. Comb-like catch pans for vertical draw sheet glass making machines. 3,438,763, 4-15-69, Cl. 65-165.
Martin, John, to Fabricacion de Maquinas. Rolls for glass drawing machinery. 3,466,722, 9-16-69, Cl. 29-123.
Martin, John, to Fabricacion de Maquinas. Clean-out doors for vertical draw sheet glass making apparatus. 3,477,837, 11-11-69, Cl. 65-168.
Martin, John, to Fabricacion de Maquinas. Drawing and/or annealing rolls for sheet glass making apparatus. 3,484,227, 12-16-69, Cl. 65-356.
Martin, Jon W., to Shell Oil Company. Conjugated diene polymer compositions stabilized with certain hydroxylamines. 3,432,578, 3-11-69, Cl. 260-880.
Martin, Jon W., to Shell Oil Company. Footwear having improved block copolymer foxing adhesion. 3,477,148, 11-11-69, Cl. 36-2.5
Martin, Jon W.; Snyder, John L.; and Himes, Glenn R., to Shell Oil Company. Footwear having improved block copolymer foxing adhesion. 3,473,240, 10-21-69, Cl. 36-4.
Martin, Joseph: *See—*
Philipps, Edward J.; and Martin, Joseph,3,439,856.
Martin, Keith F.; and Mercer, Frank Brian, to Plastic Textile Accessories Limited. Apparatus for manufacturing plastic nets. 3,444,588, 5-20-69, Cl. 18-12.
Martin, Larry C.: *See—*
Hjermstad, Erling T.; Martin, Larry C.; and Kirby, Kenneth W.,3,462,283.
Martin, Laurence R.: *See—*
De Jarld, Norman L .; and Martin, Laurence R.,3,440,524.
Martin, Lawrence R.: *See—*
Meyers, John J.; Martin, Lawrence R.; and Rubin, Jacob C.,3,464,562.
Martin, Marion, to Tajon, Incorporated. Vehicle discharge apparatus. 3,482,876, 12-9-69, Cl. 298-23.
Martin, Maxie: *See—*
Branyon, James Curtis; Harshbarger, Allen L.; and Martin, Maxie,3,477,624.
Martin, Merle E., to Beta Corporation. Annunciator system. 3,480,938, 11-25-69, Cl. 340-213.1
Martin, Merrill D. Rotary die cutter. 3,424,043, 1-28-69, Cl. 83-168.
Martin, Merritt W., Jr., to Hoover Ball and Bearing Company. Apparatus for compacting and trimming necks in blow molded containers. 3,470,582, 10-7-69, Cl. 18-5.
Martin, Michael J., Jr.: *See—*
Brown, Norman R.; Martin, Michael J., Jr.; and Stanner, Donald,3,478,405.
Martin, Michel Leon Jean, to Eau et Feu, Societe Anonyme. Agricultural irrigation. 3,457,945, 7-29-69, Cl. 137-355.16
Martin, Nathan B., Jr.: *See—*
Ross, William C.; and Martin, Nathan B., Jr.,3,472,739.
Martin, Neil F. D. Apparatus and method for grinding inserts. 3,434,248, 3-25-69, Cl. 51-234.
Martin, Norman M.: *See—*
King, Claude F.; Martin, Norman M.; Mellott, Robert N.; and Wolfe, Ramon E.,3,487,369.
Martin, Orval J.: *See—*
Hall, Donivan L.; Martin, Orval J.; and Robaszkiewicz, Gerald D.,3,474,885.
Susor, William C.; and Martin, Orval J.,3,447,617.
Martin, Otis M., 1/3 to Miller, Silas N., and 1/3 to Kough, John K., mesne: Shake strip assembly for roofing or siding. 3,440,777, 4-29-69, Cl. 52-94.
Martin, Patricia C. Set of blocks for generating designs. 3,464,145, 9-2-69, Cl. 46-17.
Martin, Paul A., to Riegel Paper Corporation. Machine cartons. 3,442,063, 5-6-69, Cl. 53-374.
Martin, Paul W., to Republic Industries, Inc. Automatic door operator. 3,478,468, 11-18-69, Cl. 49-137.
Martin, Philip T.: *See—*
Hickey, William P.; and Martin, Philip T.,3,435,241.
Martin Processing Co., Incorporated: *See—*
Hermes, Julius, 3,467,484.
Martin, Ralph E., to Continental Can Company, Inc. Apparatus and method for detecting leaky cans. 3,423,990, 1-28-69, Cl. 73-45.1
Martin, Ralph E., to Howe-Baker Engineers, Inc. Process for the desalinization of brackish waters. 3,480,513, 11-25-69, Cl. 202-185.
Martin, Ricky, to Feick, Harry, Co., Inc. Digital wave from division for power control. 3,452,214, 6-24-69, Cl. 307-96.
Martin, Robert C., to Texas Instruments, Incorporated. Plural emitter type active element memory. 3,436,738, 4-1-69, Cl. 340-173.
Martin, Robert Clurin, to Texas Instruments, Incorporated. Method for forming ohmic contact for a semiconductor device. 3,468,728, 9-23-69, Cl. 148-187.
Martin, Robert E.: *See—*
Burzynski, Alfred J.; and Martin, Robert E.,3,449,293.
Martin, Robert Edgar; Hasler, Edmond Francis; and Prewett, James Nigel. Fluid indicating apparatus. 3,443,438, 5-13-69, Cl. 73-304.
Martin, Robert I., to Rimar Manufacturing, Inc. Decorative window grilles. 3,474,587, 10-28-69, Cl. 52-456.

Martin, Robert L.: *See*—
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P.,3,430,448.
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P.,3,436,921.
Martin, Robert L., to Eaton Yale & Towne Inc. Vehicle safety machanism. 3,431,998, 3-11-69, Cl. 180-112.
Martin, Robert L., to Gutenlag, Charles E., d/b/a Publication Engineers. Method of forming and mounting relay structures. 3,456,336, 7-22-69, Cl. 29-602.
Martin, Robert L., to General Electric Company. Grounding strap improvement for round grounding outlet. 3,467,939, 9-16-69, Cl. 339-14.
Martin, Robert L., to General Electric Company. Duplex socket contact with breakoff tab. 3,467,941, 9-16-69, Cl. 339-31.
Martin, Robert L., to Consolidated Electronic Industries, Inc. Horizontal latching type relay. 3,470,506, 9-30-69, Cl. 335-170.
Martin, Robert L.; and Chute, Richard, to Eaton Yale & Towne, Inc. Vehicle safety system. 3,429,583, 2-25-69, Cl. 280-150.
Martin, Robert T. Potato storage method. 3,445,246, 5-20-69, Cl. 99-154.
Martin, Robert W., to International Business Machines Corporation. Switching apparatus. 3,431,431, 3-4-69, Cl. 307-136.
Martin, Robert W.; and Spears, John R. Hydraulically actuated bucket closing means. 3,479,077, 11-18-69, Cl. 294-70.
Martin, Ronald E. Detachable clear view visor for motor vehicles. 3,476,436, 11-4-69, Cl. 296-95.
Martin, Ronald L.; and Flannery, Robert J., to Standard Oil Company (Indiana). Determination of nitrogen. 3,461,042, 8-12-69, Cl. 204-1.
Martin, Roy A., to Citizens and Southern National Bank, Trustees, Employees' Savings and Profit Sharing trust fund of the. Method and apparatus for simultaneously moving a marking tape and other tape. 3,455,431, 7-15-69, Cl. 197-134.
Martin, Russell John, to Carnation Company. Automatic packaging apparatus. 3,479,795, 11-25-69, Cl. 53-160.
Martin, Samuel M.: *See*—
Cogelin, Nicholas J.; Martin, Samuel M.; and Ramsey, Raymond B.,3,433,884.
Martin, Samuel R.; and McKibbin, John T., to Singer Company, The. Clutch apparatus. 3,433,339, 3-18-69, Cl. 192-84.
Martin, Samuel W., to Pitney-Bowes, Inc. Document feeding device for copying machines. 3,468,605, 9-23-69, Cl. 355-29.
Martin, Sidney C. Pressure indicating apparatus. 3,447,380, 6-3-69, Cl. 73-412.
Martin, Stephen P. Musical instrument. 3,444,772, 5-20-69, Cl. 84-402.
Martin, Steven T., to Textron, Inc. Bearing having flexible seal arrangement. 3,428,375, 2-18-69, Cl. 308-187.2
Martin, Stuart W.: *See*—
Jones, Claude K.; and Martin, Stuart W.,3,423,562.
Jones, Claude K.; and Martin, Stuart W.,3,437,784.
Martin Sweets Company, Inc., The: *See*—
Stewart, Sherman Alan, 3,443,984.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B., to Cutters Machine Company, Inc. Cloth laying machine having cloth roll supporting and feeding structure. 3,468,529, 9-23-69, Cl. 270-31.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B., to Cutters Machine Company, Inc. Drive control means for cloth spreading machine. 3,479,023, 11-18-69, Cl. 270-31.
Martin, Thomas W., to Cutters Machine Company, Inc. Cloth roll carrier. 3,460,774, 8-12-69, Cl. 242-58.
Martin, Van C.: *See*—
Arter, Nelson K.; and Martin, Van C.,3,480,827.
Martin, Van C., to International Business Machines Corporation. Reversing motor drive for type bar. 3,443,186, 5-6-69, Cl. 318-257.
Martin, Vincent W.: *See*—
Prindell, Stuart M., Jr.; Perry, Malcolm R.; Martin, Vincent W.; and Fritsch, Daniel F.,3,479,815.
Martin, Vincent W.; and Lyczak, Henry A., to Hamilton Watch Company. Oscillating motor drive system. 3,447,052, 5-27-69, Cl. 318-128.
Martin, Warner W.; and Matas, Vyto, to Lau Blower Company, The. Purging system for humidifier. 3,456,927, 7-22-69, Cl. 261-2.
Martin, William C.: *See*—
Cole, Joseph I.; and Martin, William C.,3,465,564.
Martin, William E. Sweep ejector type earth working scraper attachment for farm tractors. 3,427,735, 2-18-69, Cl. 37-126.
Martin, William E. Scraper bowl manipulating apparatus attachable with and operable from an attendant vehicle. 3,427,736, 2-18-69, Cl. 37-129.
Martin, William E. Self-contained scraper bowl assembly adapted for attachment with mobile vehicle. 3,435,547, 4-1-69, Cl. 37-124.
Martin, William E. Vibratory cutting means to supplement earth penetration and movement by earth working equipment. 3,443,327, 5-13-69, Cl. 37-126.
Martin, William E. Control and nudging means for earth working devices. 3,443,329, 5-13-69, Cl. 37-129.
Martin, William E. Operating mechanism for scraper bowl material ejector. 3,452,462, 7-1-69, Cl. 37-126.
Martin, William E. Earth working scraper attachment for farm tractors. 3,460,279, 8-12-69, Cl. 37-126.
Martin, William E. Manipulative support mechanism for mounting earth working equipment. 3,473,242, 10-21-69, Cl. 37-118.
Martin, William E. Flexible coupling device. 3,477,245, 11-11-69, Cl. 64-11.
Martin, William E. Shaft coupling. 3,477,246, 11-11-69, Cl. 64-11.
Martin, William E. Shaft coupling device. 3,477,251, 11-11-69, Cl. 64-27.
Martin, William E. Reversible cutting blade means. 3,479,756, 11-25-69, Cl. 37-129.
Martin, William E. Laterally tiltable self loading motor scraper. 3,484,843, 12-16-69, Cl. 37-126.
Martin, William L.: *See*—
Alexander, John D.; Dew, John N.; and Martin, William L.,3,422,891.
Dew, John N.; and Martin, William L.,3,461,963.
Martin, William R.; and Weir, James R., to United States of America, Atomic Energy Commission. Stainless steel alloy exhibiting resistance to embrittlement by neutron irradiation. 3,440,037, 4-22-69, Cl. 75-128.
Martin, William R.: *See*—
Tarkington, Terry Wesley; and Martin, William R.,3,439,490.
Martin, William S., to General Electric Company. Separated mirror face-pumped disc laser devices. 3,424,991, 1-28-69, Cl. 330-4.3
Martin, Willis W. Irrigation flow control and method of installing. 3,439,505, 4-22-69, Cl. 61-12.
Martin, Willis W. Flow controlling irrigation installation for an unlined ditch. 3,439,506, 4-22-69, Cl. 61-12.
Martin, Wolfgang; Linge, Hermann; Hendus, Hans; and Wenger, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of bulked yarn. 3,434,278, 3-25-69, Cl. 57-157.
Martin-Mailet & Cie: *See*—
Le Flem, Roger, 3,431,859.
Martin-Marietta Corporation: *See*—
Avis, Leonard E.; and Evans, Donald B., 3,444,005.
Bienert, Walter B., 3,435,889.
Blake, Carl B.; and Fuerst, Adolph, 3,484,342.
Bongers, Leonard H.; and Kok, Bessel, 3,420,739.
Bowen, John D., Jr., 3,449,202.
Brown, George C., Jr., 3,434,227.
Chandler, Huel H., Jr.; Morrell, Henry P.; and Sayers, Paul G., 3,459,701.
Conklin, Clement L., Jr.; and Holland, Thomas M., Jr., 3,465,648.
Croucher, William C.; Estep, Willis F.; and Ross, Gilbert H., 3,442,587.
De Fellippie, John C.; and Thomason, James L., 3,436,561.
Dieters, William I.; and Paddock, Bernard H., 3,465,812.
Eyman, Ralph A., 3,447,382.
Flint, Graham W.; and Bowen, James R., 3,469,144.
Freeman, Peter A., 3,422,259.
Freeman, Peter A., 3,466,002.
Friedell, Morley V., 3,478,775.
Goetz, Raymond J.; Hawkins, Thomas W.; and Rose, Joseph F., 3,420,430.
Griffith, William S., 3,420,615.
Higginbotham, John W., 3,440,446.
Justice, Donald A., 3,467,373.
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A., 3,432,316.
Kelly, Thomas M.; Mielenz, Richard C.; and Peppler, Richard B., 3,432,317.
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A., 3,485,649.
Kling, Harry P., 3,422,523.
Knauber, Ronald L.; and Evel, Eddie A., 3,449,687.
Kramer, Irvin R.; and Burrows, Charles F., 3,440,150.
Krips, Jack E., 3,484,595.
Lovell, Gary E.; and Conover, Tom E., 3,444,528.
McKinney, James L., 3,467,958.
McMillan, Robert W., 3,447,095.
Middleton, William J., Jr.; and Askowith, Burton J., 3,453,037.
O'Neal, Charles D., 3,468,331.
Padera, Charles J., 3,460,383.
Paynter, Howard L., 3,486,302.
Polhemus, John T., 3,444,522.
Pravda, Milton F.; and Levedahl, William J., 3,429,122.
Prelowski, Stefan, 3,455,117.
Ramaley, Edward J.; and Wilcox, Norman G., 3,443,056.
Randall, Lowell N., 3,455,161.
Randle, William R., 3,441,840.
Ross, Milford N.; Streb, Alan J.; and Young, Charles N., 3,423,249.
Schwartz, Melvin M.; and O'Keefe, Robert B., 3,457,630.
Soderberg, Laurence R., 3,442,501.
Stouffer, Ronald D.; and Gerber, John W., 3,446,228.
Trippe, Walter D., 3,432,757.
Wheaton, Harold L., 3,432,294.

Wilcox, Norman G.; Croucher, William C.; and Ramaley, Edward J., 3,449,541.
Wofsey, David, 3,484,667.
Wong, Bartlett; and Burke, Harold H., 3,463,423.
Young, Richard L., 3,483,012.
Zaloudek, James J., 3,452,772.

Martina, Eugene F., to United States of America, Air Force. Device for producing stereoscopic radiographs. 3,422,264, 1-14-69, Cl. 250-61.

Martina, Renato: *See—*
Vohler, Otto; and Martina, Renato,3,468,718.

Martinaglia, Luigi, to Maag Gear Wheel & Machine Company Limited. Sealing means for high pressure gear pump. 3,473,474, 10-21-69, Cl. 103-126.

Martincic, Paul W., to Westinghouse Electric Corporation. Two-part winding mandrel. 3,454,237, 7-8-69, Cl. 242-72.1

Martineau, Arthur G., Jr. Hair curler sorter. 3,451,548, 6-24-69, Cl. 209-97.

Martinec, Josef: *See—*
Riha, Miloslav; Cernocky, Jiri; and Martinec, Josef,3,482,608.

Martinek, Miloslav: *See—*
Toifl, Jaroslav; and Martinek, Miloslav,3,439,336.

Martinek, Thomas W.: *See—*
Haines, Robert M.; Klass, Donald L.; and Martinek, Thomas W.,3,452,275.
Klass, Donald L.; Martinek, Thomas W.; and Haines, Robert M.,3,468,167.

Martinek, Thomas W., to Tee-Pak, Inc. Shirring apparatus and resulting product. 3,454,981, 7-15-69, Cl. 17-42.

Martinek, Thomas W., to Tee-Pak, Inc. High density shirring of sausage casings. 3,456,286, 7-22-69, Cl. 17-49.

Martinek, Thomas W., to Union Oil Company of California, mesne. Levitated reciprocating motor. 3,462,666, 8-19-69, Cl. 318-124.

Martinek, Thomas W., to Tee-Pak, Inc. Fluid applicator for shirring machine. 3,462,794, 8-26-69, Cl. 17-42.

Martinek, Thomas W.; Haines, Robert M.; Weichman, Roger L.; and Trainor, Wilbur J., to Union Oil Company of California. High temperature grease. 3,476,687, 11-4-69, Cl. 252-59.

Martinenghi, Giovanni Battista. Refining process comprising deacidification and deodorization of glyceride oils and fats and equipment for said process. 3,455,975, 7-15-69, Cl. 260-428.

Martinet, Christian Jacques Emile Joseph, to EPM International. Laminated heating panel and tables equipped therewith. 3,420,981, 1-7-69, Cl. 219-218.

Martinet, Jacques R.: *See—*
Mayberry, Marshall L.; and Martinet, Jacques R.,3,473,939.

Martinet, Jacques R., to Kaiser Aluminum & Chemical Corporation. Refractory composition. 3,443,974, 5-13-69, Cl. 106-59.

Martinet, Jacques R.; and Bowman, Jan, to Kaiser Aluminum & Chemical Corporation. Copper converter having tar impregnated fired chromite brick lining. 3,468,526, 9-23-69, Cl. 266-43.

Martinetz, Johann; and Paepke, Horst, to Mayer & Cie. Pattern device for circular knitting machines. 3,461,690, 8-19-69, Cl. 66-50.

Martinez, Angel V. Respirator holder device. 3,464,411, 9-2-69, Cl. 128-145.8

Martinez, Antonio H.: *See—*
Holley, John D.; and Martinez, Antonio H.,3,426,379.

Martinez, Arfilio J., 15% to Marshall, John E., Jr., and 40% to Day, Donald L. Cell coloring process and composition for cytological examination. 3,440,317, 4-22-69, Cl. 424-3.

Martinez, Arturo. Fish breeder. 3,464,387, 9-2-69, Cl. 119-5.

Martinez, Eugene, to Hudson Photographic Industries Inc. Rear projection screen cabinet. 3,455,631, 7-15-69, Cl. 353-79.

Martinez, Eugene: *See—*
Kapilow, Marvin; Martinez, Eugene; and Reibel, Robert H.,3,475,263.

Martinez, Miguel, to Johns Hopkins University, The. Operating illuminator. 3,461,282, 8-12-69, Cl. 240-41.15

Martinez, Miguel. Electric cautery. 3,461,874, 8-19-69, Cl. 128-303.17

Martinez, Orlando, Jr.: *See—*
Rickard, Earl K.; and Martinez, Orlando, Jr.,3,426,734.

Martinez, Prudencio, Jr.: *See—*
Senftle, Frank E.; Hoyte, Alfred F.; and Martinez, Prudencio, Jr.,3,463,922.

Martinez, Wilda H.: *See—*
Berardi, Leah C.; Martinez, Wilda H.; Boudreaux, Gordon J.; Piccolo, Biagio; and Frampton, Vernon L.,3,463,641.

Martini, Douglas H.: *See—*
Adler, Imre; Connelly, Francis X.; and Martini, Douglas H.,3,457,789.

Martini, Douglas H.; Snow, Frederick O., III; and Vander Laan, Richard W., to Hewitt-Robins Incorporated. Plow feeder system for self-unloading vessel. 3,455,467, 7-15-69, Cl. 214-15.

Martini, Emilio: *See—*
Bujtar, Carlo; and Martini, Emilio,3,444,243.

Martini, Paul; and Nocon, Theodor, to Licentia Patent-Verwaltungs-G.m.b.H. Electromotor-driven oil pump. 3,473,475, 10-21-69, Cl. 103-118.

Martini, Robert J. Remote control system for opening and closing overhead-opening multipaneled doors. 3,439,728, 4-22-69, Cl. 160-193.

Martini, William R.: *See—*
Baumgardner, Arthur R.; Johnston, Richard P.; Martini, William R.; and White, Maurice A.,3,484,616.
Goranson, Richard B.; and Martini, William R.,3,478,695.

Martiniak, Leonard J., to General Electric Company. Hose and cord storage arrangement for a portable dishwasher. 3,456,680, 7-22-69, Cl. 137-355.17

Martiniak, Leonard J.; and Race, Marlin L., to General Electric Company. Signal means for automatic washing machine controlled by timer device. 3,430,223, 2-25-69, Cl. 340-309.2

Martino, Carlo F.: *See—*
Mitchell, Philip A.; Martino, Carlo F.; and Imhof, Lawrence G.,3,438,931.

Martino, Joseph Francis: *See—*
Backlund, Gerald Richard; Martino, Joseph Francis; and Divine, Ralph Dettmer,3,463,841.

Martino, Louis J., to McDonald's System, Inc., mesne. Method for signalling the completion of cooking of a food product in a cooking bath. 3,423,210, 1-21-69, Cl. 99-100.

Martino, Louis J., to Avanti R & D, Inc. Polarization diversity loop antenna. 3,475,756, 10-28-69, Cl. 343-743.

Martinola, Friedrich; Siegers, Gunter; and Wolniewicz, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Process for the treatment of liquids with ion exchangers. 3,458,436, 7-29-69, Cl. 210-20.

Martinovich, Robert J., to Phillips Petroleum Company. Stabilization of polymers with UV stabilizers and antioxidants. 3,445,424, 5-20-69, Cl. 260-45.85

Martinovich, William M., to Shell Oil Company, and Earl and Wright, as tenents in common. Marine structures. 3,485,050, 12-23-69, Cl. 61-46.

Martins, Borge. Turnable devices. 3,470,786, 10-7-69, Cl. 85-45.

Martinsburg Mills, Inc.: *See—*
Bridgeman, Ules M., 3,450,075.

Martinsen, Lyle J., to Boyles Bros. Drilling Company. Core drilling system. 3,441,098, 4-29-69, Cl. 175-246.

Martinsen, Lyle J., to Boyles Bros. Drilling Company. Apparatus for controlling travel path of a movable device. 3,482,103, 12-2-69, Cl. 250-203.

Martinsen, Lyle J., to Boyles Bros. Drilling Company. Core barrel latching and sealing method and apparatus. 3,485,308, 12-23-69, Cl. 175-58.

Martinsen, Lyle J.; and Matthews, Stanton L., to Boyles Bros., Drilling Company. Core drilling system. 3,463,255, 8-26-69, Cl. 175-244.

Martinson, Donald L.: *See—*
Davis, Frank C.; Luther, William B.; and Martinson, Donald L.,3,427,269.

Martinson, Edwin O., to Koehring Company. Mobile crane with spaced pivotally mounted booms. 3,448,874, 6-10-69, Cl. 214-75.

Martinson, Edwin O., to Koehring Company. Servo valve. 3,455,334, 7-15-69, Cl. 137-625.61

Martinson, Jerry A. Strainer support. 3,436,044, 4-1-69, Cl. 248-94.

Martinson, John L., to Meredith Publishing Co. Method for forming written symbols to be read by automatic character recognition equipment. 3,485,168, 12-23-69, Cl. 101-426.

Martinson, William V.: *See—*
Carter, Frederick H. N.; Martinson, William V.; and Olsson, Sven M. J.,3,429,973.

Martland, Laurie: *See—*
Hall, Leslie; Lynes, Arthur E.; and Martland, Laurie,3,451,469.
Lynes, Arthur Edward; and Martland, Laurie,3,439,767.

Martocci, Anthony P., to Bethlehem Steel Corporation. Method of setting an electronprojecting apparatus to uniformly heat a coated metal base. 3,441,709, 4-29-69, Cl. 219-121.

Marton, Louis L. Heat dissipator. 3,421,578, 1-14-69, Cl. 165-186.

Martsinkevich, Alexandr Vladimirovich: *See—*
Putyato, Jury Sergeevich; Medvedenko, Arkady Markovich; Martsinkevich, Alexandr Vladimirovich; and Ashurkov, Evstafy Borisovich,3,487,352.

Martti, Lauri, to Raha-Automaattiyhdistys. Dispenser mechanism for coin operated machines and the like. 3,455,426, 7-15-69, Cl. 194-23.

Martti, Lauri, to Raha-Automaattiyhdistys. Coin operated machine for making change. 3,469,669, 9-30-69, Cl. 194-58.

Martuch, Leon L.: *See—*
Martuch, Leon P.; and Martuch, Leon L.,3,461,593.

Martuch, Leon P.; and Martuch, Leon L. Fishing rod. 3,461,593, 8-19-69, Cl. 43-18.

Marty, Pierre Rene Louis: *See—*
Benmussa, Henri; Marty, Pierre Rene Louis; and Kobus, Stanislas,3,441,675.

Marty, Pierre Rene Louis; and Kobus, Stanislas, to International Standard Electric Corporation. Selection system for electrical circuits or equipment. 3,427,604, 2-11-69, Cl. 340-174.

Martyniuk, Ernest T., to General Motors Corporation. Method of making metal powder. 3,476,547, 11-4-69, Cl. 75-0.5

Martz, Lyle F., to Westinghouse Electric Corporation, mesne. Variable speed control for position regulator motors. 3,445,739, 5-20-69, Cl. 318-18.
Marucci, Luigi; and Bianchi, Gian Franco, to Kent-Tieghi S.p.A. Differential pneumatic amplifier with adjustable gain. 3,448,753, 6-10-69, Cl. 137-86.
Marulic, Walter J., to Union Tank Car Company, mesne. Seal. 3,426,934, 2-11-69, Cl. 220-26.
Marullo, Nicasio P., to Research Corporation. Coordination compounds of alkali metal halides and racemic diaryl diamines. 3,461,166, 8-12-69, Cl. 260-579.
Marum, Helmut, to Varityper Corporation. Hammer actuator mechanism. 3,476,229, 11-4-69, Cl. 197-16.
Marumo, Hideo; and Saithoh, Minoru, to Lion Fat & Oil Co., Ltd. Preparation of metal salts of amphoteric surface active agent. 3,448,128, 6-3-69, Cl. 260-429.
Maruo, Keiichi: *See—*
Kageyama, Ikuzo; and Maruo, Keiichi,3,485,872.
Marushima, Yoshio: *See—*
Iida, Suetoshi; Marushima, Yoshio; and Hasebe, Nobuyasu,3,459,495.
Marutai Doboku Company Limited: *See—*
Washita, Hiro, 3,420,320.
Maruyam, Shoji: *See—*
Muraki, Ichiro; Tsuchida, Takashi; Shinoda, Kenichi; and Maruyam, Shoji,3,442,716.
Maruyama, Isamu: *See—*
Yamamoto, Hisao; Nakao. Masaru; and Maruyama, Isamu,3,479,348.
Maruyama, Isao: *See—*
Kokubo, Ryo; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko,3,454,571.
Maruyama, Kunimori, to Takeshi Yamamoto. Apparatus for driving an automatic door. 3,438,274, 4-15-69, Cl. 74-33.
Maruyama, Kunimori, to Matsushita Denko Kabushiki Kaisha, mesne. Apparatus for driving an automatic door operator. 3,456,528, 7-22-69, Cl. 74-785.
Maruyama, Minoru: *See—*
Okazaki, Kaoru; Nakasatomi, Masaru; and Maruyama, Minoru,3,446,782.
Maruyama, Minoru; and Nakasatomi, Masaru, to Toyo Rayon Kabushiki Kaisha. Process for the manufacture of polyamide powder. 3,481,906, 12-2-69, Cl. 260-78.
Maruyama, Mitsuhiro, to Nippon Electric Company Limited. Crystal growth apparatus. 3,481,711, 12-2-69, Cl. 23-273.
Maruyama, Robert T.: *See—*
Lau, Stanley K.; and Maruyama, Robert T.,3,486,189.
Maruyama, Tatsuo: *See—*
Sasaki, Hiroshi; and Maruyama, Tatsuo,3,475,556.
Maruyama, Yugo: *See—*
Jin, Minejiro; and Maruyama, Yugo,3,425,516.
Maruyama, Yutaka: *See—*
Nakanishi, Michio; Tahara, Tetsuya; and Maruyama, Yutaka,3,426,022.
Maruzen Oil Company, Limited: *See—*
Sakai, Yoshinori; and Hori, Takashi, 3,464,970.
Maruzen Petrochemical Co., Ltd.: *See—*
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto, 3,455,847.
Maruzen Sewing Machine Co., Ltd.: *See—*
Okuda, Makoto; and Fujishima, Akira, 3,468,480.
Marvco Tool & Mfg.: *See—*
Carlson, Reuben C., 3,438,636.
Marvel, Carl S.; Okada, Masahiko; and De Schryver, Frans, to Research Corporation. Quinoxaline polymer compositions. 3,475,374, 10-28-69, Cl. 260-47.
Marvel Engineering Company: *See—*
Kudlaty, Walter J.; and Heinrich, Peter, Jr., 3,420,375.
Kudlaty, Walter J., 3,431,883.
Kudlaty, Walter J., 3,441,143.
Kudlaty, Walter J., 3,448,862.
Kudlaty, Walter J., 3,460,805.
Kudlaty, Walter J., 3,469,697.
Kudlaty, Walter J., 3,473,662.
Kudlaty, Walter J., 3,476,251.
Kudlaty, Walter J., 3,476,252.
Kudlaty, Walter J., 3,482,846.
Marvel Equipment Corporation: *See—*
Juculano, Theodore Charles, 3,458,222.
Marvel Specialty Company: *See—*
Smith, Gus T., 3,444,704.
Marvin, Edgar S., to Eastman Kodak Company. Trigger mechanism for a movie camera or the like. 3,476,471, 11-4-69, Cl. 352-178.
Marvin Electric Manufacturing Co.: *See—*
Katavolos, William; and Evans, Seymour, 3,427,446.
Marvin Glass & Associates: *See—*
Barlow, Gordon A.; Kripak, Leonid; and Disko, Harry, 3,445,959.
Barlow, Gordon A., 3,448,541.
Dekan, Howard L., 3,436,859.
Larson, Edward S., Jr., 3,437,337.
Marvin, Harry N.: *See—*
Gaglione, Alfonso T.; Marvin, Harry N.; and Wyrough, David J.,3,442,480.
Marvin, John; and Henderson, Thomas Jr., deceased0 (by Henderson, Dorothy; administratrix). Mollusk flesh processor. 3,460,192, 8-12-69, Cl. 17-45.
Marwil, Stanley J.: *See—*
Cunningham, Sheldon A.; and Marwil, Stanley J.,3,457,248.
Marwil, Stanley J., to Phillips Petroleum Company. Polymer recovery process. 3,468,868, 9-23-69, Cl. 260-94.9
Rohlfing, Raymond G.; and Marwil, Stanley J.,3,451,785.
Marwin Machine Tools Limited: *See—*
Good, Richard Samuel Jonathan, 3,444,751.
Marwitz, Heinrich; Nitzsche, Siegfried; and Pirson, Ewald, to Wacker-Chemie G.m.b.H. Organosiloxane composition. 3,481,899, 12-2-69, Cl. 260-46.5
Marx Arthur Friedich; and Van der Waard, Willem Frederik, to Koninklijke Nederlandsche Gist- & Spiritusfabriek N.V. Conessine derivatives. 3,466,279, 9-9-69, Cl. 260-239.5
Marx, Arthur Friedrich; and Wieriks, Jacob, to Koninklijke Nederlandsche Gist- & Spiritusfabriek N.V. Conessine derivatives. 3,485,825, 12-23-69, Cl. 260-239.5
Marx, Erwin; and Koch, Werner, to Aktiengesellschaft Brown, Boveri & Cie. Sprak gap device with ignition electrode. 3,454,823, 7-8-69, Cl. 315-36.
Marx, Gerhard: *See—*
Degenhardt, Karl-Heinz; and Marx, Gerhard,3,446,649.
Marx, Guilherme S. Display frame. 3,425,147, 2-4-69, Cl. 40-155.
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer, to Burroughs Corporation. Central data processor for computer system having a divided memory. 3,426,329, 2-4-69, Cl. 340-172.5
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer, to Burroughs Corporation. Central data processor. 3,426,330, 2-4-69, Cl. 340-172.5
Marx, Helmut; and Sindel, Paul, to Leitz, Ernst, G.m.b.H. Two asherical surfaced, high speed photographic objective lens. 3,459,468, 8-5-69, Cl. 350-176.
Marx, Herbert Zeppo: *See—*
Herman, Albert Dale; and Marx, Herbert Zeppo,3,426,747.
Herman, Albert Dale; and Marx, Herbert Zeppo,3,473,526.
Marx, Hilbert Stanley, to Globe-Union Inc. Electrical component assembly with improved strut fastening means. 3,430,105, 2-25-69, Cl. 317-112.
Marx, Josef, to Elster & Co. Aktiengesellschaft. Change-over valve device. 3,453,884, 7-8-69, Cl. 73-197.
Marx, Louis, & Co., Inc.: *See—*
Clarke, Robert E., 3,435,556.
Ferriot, Joseph V., 3,470,650.
Lohr, Raymond J.; Hubiak, Walter; and Carver, Richard N., 3,453,921.
Quigley, John B.; and Dohanic, John L., Jr., 3,442,047.
Marx, Paul: *See—*
Puschel, Walter; Schranz, Karl-Wilhelm; Lassig, Wolfgang; Marx, Paul; and Credner, Hans-Heinrich,3,443,942.
Marx, Thomas I., to Sigma Instruments, Inc. Remote supervisory frequency-shift transmission system. 3,482,212, 12-2-69, Cl. 340-171.
Marx, Walter S., Jr., to Printing Arts Research Laboratories, Inc. Method and composition for production of combination line and halftone photoengravings. 3,440,048, 4-22-69, Cl. 96-41.
Marxen, Friedrich: *See—*
Vogel, Reinhard Ernst, 3,434,978.
Marxer, Adrian, to Ciba Corporation. Chryseno [5,6-d] imidazoles and process for their manufacture. 3,459,765, 8-5-69, Cl. 260-309.2
Marxer, Adrian, to Ciba Corporation. 1,1-Diphenyl-1-lower alkanoyloxy and carbolower alkoxy alkenamines. 3,468,906, 9-23-69, Cl. 260-326.3
Marxer, Adrian, to Ciba Corporation. 1,2-Diaryl-3-(aminomethyl)-3-buten-2-ols and their acyl derivatives. 3,487,469, 12-30-69, Cl. 260-268.
Marxer, Adrian; and Ferrini, Pier Giorgio, to Ciba Corporation. Alpha, alpha, alpha-trihalogeno-beta, beta-bis (para-tertiary-aminoalkoxy-phenyl) ethanes. 3,455,918, 7-15-69, Cl. 260-246.
Mary, Dominique; and Bussienne, Christian, to Corporation Constructions Mills-K. Electro-mechanical installation for transferring loads along a horizontal pathway. 3,458,060, 7-29-69, Cl. 214-16.4
Maryland Cup Corporation: *See—*
Baklor, Sanford M., 3,482,012.
Heyman, Albert A., 3,464,260.
Rosenberg, William; Crafton, Charles J.; Johnson, Frederick Douglas; and Hohman, Ross W., 3,439,590.
West, John B., 3,469,507.
Maryland Plastics Incorporated: *See—*
Penrod, Allen M.; and Naturale, Anthony, 3,466,833.
Marynowski, Chester Waldemar: *See—*
Evans, Arthur Wallace; Wynne, Reginald George; and Marynowski, Chester Waldemar,3,485,591.

Hirt, Thomas J.; and Marynowski, Chester W.,3,465,115.
Marz, Louis R.: *See—*
Pfeiffer, Aelred J.; and Marz, Louis R.,3,473,345.
Marzani, Bruno W., Jr.: *See—*
Reynolds, Wilbur F.; Ruda, Joseph C.; and Marzani, Bruno W., Jr.,3,465,633.
Marzo, Victor Milian, to Industria Yuk. Link for creeper chains. 3,442,076, 5-6-69, Cl. 59-90.
Marzocchi, Alfred, to Owens-Corning Fiberglas Corporation. Treated glass fiber bundles and combinations thereof with elastomeric material. 3,453,652, 7-1-69, Cl. 57-153.
Marzocchi, Alfred, to Owens-Corning Fiberglas Corporation. Neoprene-glass fiber structures and method for preparation. 3,479,207, 11-18-69, Cl. 117-76.
Marzocchi, Alfred; and Brown, Alfred Winsor, to Owens Corning Fiberglas Corporation. Method of building reinforced tire construction. 3,433,689, 3-18-69, Cl. 156-96.
Marzocchi, Alfred; and Garbin, Albert J., to Owens-Corning Fiberglas Corporation. Drive belt construction. 3,469,512, 9-30-69, Cl. 74-233.
Marzocchi, Alfred; and Garbin, Alfred J., to Owens-Corning Fiberglas Corporation. Industrial belt construction and method of manufacturing same. 3,473,400, 10-21-69, Cl. 74-233.
Marzocchi, Alfred; and Lachut, Frank J., to Owens-Corning Fiberglas Corporation. Bead constructions for tires. 3,473,595, 10-21-69, Cl. 152-362.
Marzocchi, Alfred; and O'Flahavan, James M., deceased0 (by O'-Flahavan, Lorraine C.; administratrix), to Owens-Corning Fiberglas Corporation. Cellular compositions and fibrous glass coated therewith. 3,462,523, 8-19-69, Cl. 264-45.
Marzocchi, Alfred; and Rammel, Gerald E., to Owens-Corning Fiberglas Corporation. Method of coating fibers and fibers formed therefrom. 3,462,254, 8-19-69, Cl. 65-3.
Marzocchi, Alfred; and Tamosauskas, Albert E., to Owens-Corning Fiberglas Corporation. Glass fiber reinforced elastomers. 3,424,608, 1-28-69, Cl. 117-72.
Marzocchi, Alfred; and Waugh, John A., to Owens-Corning Fiberglas Corporation. Method for the impregnation of fibrous glass. 3,432,332, 3-11-69, Cl. 117-62.
Marzocchi, Alfred: *See—*
Gagnon, Roland K.; Marzocchi, Alfred; and Rogers, Harold,3,444,116.
Marzolph, Herbert: *See—*
Szita, Jeno; Bahr, Ulrich; Wieden, Horst; Marzolph, Herbert; and Nischk, Gunther,3,478,001.
Szita, Jeno; Marzolph, Herbert; and Unger, Otto,3,449,286.
Szita, Jeno; Marzolph, Herbert; and Unger, Otto,3,453,249.
Szita, Jeno; Rinkler, Heinrich; Marzolph, Herbert; and Nischk, Gunther,3,470,141.
Szitz, Jeno; Nogaj, Alfred; and Marzolph, Herbert,3,470,060.
Mas, George E., to Sperry Rand Corporation. Asymmetric pulse train generator having means for reversing the asymmetrical characteristic. 3,480,798, 11-25-69, Cl. 307-260.
Mas, Joseph A., to Dynamic Instrument Corporation. Safety battery charger. 3,435,318, 3-25-69, Cl. 320-15.
Mas, Joseph A., to Dynamic Instrument Corporation. Low direct voltage to high direct voltage converter. 3,453,520, 7-1-69, Cl. 321-2.
Mas, Joseph A., to Dynamic Instrument Corporation. Battery charging system and transducer therefor. 3,460,019, 8-5-69, Cl. 320-31.
Mas, Robert Jean: *See—*
Figuet, Maurice Germain; and Mas, Robert Jean,3,481,697.
Mas, Robert Jean; and Michaud, Andre Louis, said Michaud, Andre L., assor to Fabriques de Produits Chimiques de Thann et de Mulhouse. Process for making titanium dioxide using carbon monoxide containing inorganic ashes. 3,436,180, 4-1-69, Cl. 23-202.
Portes, Pierre J. H. L.; Richerd, Jacques; and Mas, Robert,3,437,565.
Masago, Hiroshi: *See—*
Hirai, Toshio; Moori, Takehiro; and Masago, Hiroshi,3,440,834.
Masai, Shohachi; Kawakami, Shigemitsu; and Okamoto, Tsugio, to Asahi Kasei Kogyo Kabushiki Kaisha. Apparatus for forming corregations on cylindrical envelopes of paper. 3,436,296, 4-1-69, Cl. 156-585.
Masai, Shohachi: *See—*
Matsuoka, Shigeru; Fujisawa, Kiyoshi; Masai, Shohachi; and Asami, Atsumi,3,475,891.
Masakazu Yamada & Hayashi Komoda: *See—*
Yamada, Masakazu; and Komoda, Hayashi, 3,477,443.
Masako Shimizu: *See—*
Batchelor, Gordon S.; Kishi, Kiyoshi; Iwauchi, Shigeki; and Saito, Isamu, 3,443,929.
Masaschi, Joseph B.: *See—*
Miller, Charles A., Jr.; Masaschi, Joseph B.; and Miller, Robert W., Jr.,3,471,028.
Masazumi, Kawai: *See—*
Yanagida, Kiyomi; Hatano, Ikuo; and Masazumi, Kawai,3,464,909.
Mascaro, Thomas C. Turf-aerating apparatus. 3,429,378, 2-25-69, Cl. 172-22.
Mascaro, Thomas C., to Kearny-National Inc., mesne. Power dragger. 3,463,240, 8-26-69, Cl. 172-256.
Mascenik, John; Flory, John F.; and Van Houten, Leonard E., to Esso Research and Engineering Company. Protective dome for underwater mooring swivel. 3,455,270, 7-15-69, Cl. 114-230.
Mascherpa, Antonio. Hydrodynamically controlled copying lathe with means for automatically varying the speed of the tool carrying carriage and the spindle. 3,473,424, 10-21-69, Cl. 82-14.
Maschi, Angelo P.: *See—*
Frost, Richard H.; Criley, Ronald L.; Laliberte, George A.; and Maschi, Angelo P.,3,425,739.
Maschinen- und Bohrgerate-Fabrik Alfred Wirth & Co., K.G.: *See—*
Hagemann, Franz Josef, 3,457,752.
Hagemann, Franz Josef; and Wahl, Karlheinz, 3,457,754.
Hagemann, Franz Josef, 3,459,022.
Schaaf, Martin, 3,435,777.
Maschinen-und Bohrgerate-Fabrik Alfred Wirth & Co., K.G.: *See—*
Schaaf, Martin, 3,438,334.
Maschinenbau WAM M. Osterhof:*See—*
Eggeringhaus, Heinz, 3,427,961.
Maschinenfabrick Beninger A.G.,: *See—*
Wenger, Max, 3,419,946.
Maschinenfabrik Augsburg-Nuremberg Aktiengesellschaft: *See—*
Degenhardt, Heinrich; and Quaas, Werner, 3,444,984.
Stroehlen, Richard, 3,430,608.
Maschinenfabrik Augsburg-Nurnberg AG: *See—*
Fischer, Hermann, 3,477,370.
Garve, Alexander, 3,462,071.
Gorge, Werner; and Moser, Alois, 3,448,993.
Heeren, Hermann; Kratzer, Hans; and Dege, Bernhard, 3,473,961.
Knecht, Ludwig; and Hebling, Friedrich, 3,457,743.
Meurer, Siegfried; Querfurt, Horst; and Herzog, Walter, 3,420,216.
Muhlberg, Erhard, 3,473,520.
Stroehlen, Richard, 3,452,719.
Maschinenfabrik Bennenger AG: *See—*
Wenger, Max, 3,478,400.
Maschinenfabrik Benninger AG.: *See—*
Wildi, Edwin; and Bischof, Benno, 3,459,389.
Maschinenfabrik Buckau R. Wolf Aktiengesellschaft: *See—*
Michalke, Reinhard, 3,421,314.
Piatkowski, Paul, 3,421,420.
Maschinenfabrik Burckhardt A.G.: *See—*
Bauer, Helmut, 3,425,441.
Maschinenfabrik Carl Zangs Aktiengesellschaft: *See—*
Haberhauer, Karl; and Konigs, Heinz, 3,450,168.
Hoever, Franz, 3,482,536.
Koslowski, Hans Gunter; Schmetz, Walter; and Zangs, Alexander, 3,471,082.
Rolauffs, Hans; and Hoever, Franz, 3,443,536.
Rolauffs, Hans, 3,468,268.
Maschinenfabrik Fahr Aktiengesellschaft: *See—*
Chombart, Robert G., 3,449,897.
Purrer, Josef; and Maier, Martin, 3,475,890.
Maschinenfabrik Froriep G.m.b.H.: *See—*
Bottger, Friedrich; and Cuppers, Paul, 3,448,656.
Hucks, Helmut; Noa, Fritz; and Dahl, Julius, 3,460,435.
Maschinenfabrik Gustav Schade: *See—*
Strocker, Gunther, 3,472,357.
Maschinenfabrik Habegger AG: *See—*
Lauber, Ernst, 3,429,617.
Lauber, Ernst, 3,445,137.
Lauber, Ernst, 3,446,535.
Maschinenfabrik Hasenclever Aktiengesellschaft: *See—*
Bachmann, Horst, 3,475,947.
Bachmann, Horst, 3,476,911.
Bachmann, Horst, 3,487,196.
Huydts, Eduard; and Dischler, Helmut, 3,482,463.
Maschinenfabrik Kapp & Co.: *See—*
Blubaum, Werner, 3,434,464.
Maschinenfabrik Karl Hennecke: *See—*
Ernst, Rolf K., 3,436,022.
Maschinenfabrik Memmingen Ing. Theodor Otto: *See—*
Ruf, Josef, 3,467,326.
Maschinenfabrik Moenninghoff: *See—*
Mueller, Walter; Alfs, Hugo; and von der Lippe, Robert, 3,433,529.
Maschinenfabrik Moenus A.G.: *See—*
Lischer, Georg; and Gaus, Jakob, 3,434,171.
Teerling, Martinus; and Ruppert, Horst, 3,434,169.
Maschinenfabrik Oerlikon: *See—*
Storsand, Bjarne, 3,436,572.
Maschinenfabrik Oskar Schleicher: *See—*
Seiler, Wolfgang, 3,455,339.
Maschinenfabrik Rau oHG: *See—*
Rau, Willy, 3,420,550.
Maschinenfabrik Reinhausen Gebruder Scheubeck K.G.: *See—*
Bleibtreu, Alexander; and Schweitzer, Ulrich G. E., 3,445,611.
Bleibtreu, Alexander, 3,445,615.

Bleibtreu, Alexander; and Kreuzpaintner, Josef Albert, 3,485,965.
Matzl, Manfred, 3,437,913.
Matzl, Manfred, 3,466,530.
Wittenzellner, Georg, 3,458,670.
Maschinenfabrik Rieter A.G.: *See—*
Just, Christian, 3,470,585.
Maschinenfabrik Sack G.m.b.H.: *See—*
Sack, Ernst Theodor; and Konig, Georg, 3,455,435.
Schenk, Horst; and Wurtz, Friedhelm, 3,478,565.
Triesch, Josef, 3,443,690.
Maschinenfabrik Schweiter AG.: *See—*
Werffeli,Hermann, 3,458,912.
Maschinenfabrik und Eisengiesseri A. Beien: *See—*
Romer, Arnold; and Rinio, Johannes, 3,458,235.
Maschinenfabrik und Giesserei Netstal AG: *See—*
Blumer, Armin, 3,447,776.
Blumer, Armin, 3,452,399.
Maschinenfabrik Winkler, Falbert & Co., AG: *See—*
Heimlicher, Paul; and Rohrer, Jean, 3,440,957.
Maschinot, Howard R.: *See—*
Brestel, Clarence C.; and Maschinot, Howard R.,3,468,200.
Maschinot, Howard R., to Printing Machinery Company, The. Die cutting machine for record labels and the like. 3,455,195, 7-15-69, Cl. 83-412.
Maschke, Artur; and Pasedach, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acetals of methylglyoxal. 3,478,060, 11-11-69, Cl. 260-340.9
Maschmann, Hans, to Pfaff, G. M., AG. Motion-transmitting mechanism with mechanical amplifier. 3,468,184, 9-23-69, Cl. 74-501.5
Masciantonio, Philip X.; and Schelling, James H., to United States Steel Corporation. Method for recovery of pyridine bases. 3,431,266, 3-4-69, Cl. 260-290.
Mascioli, Rocco L., to Air Products and Chemicals, Inc. Recovery and purification of piperazine. 3,481,933, 12-2-69, Cl. 260-268.
Mascitti, Albert A.: *See—*
Sulkowski, Theodore S.; and Mascitti, Albert A.,3,445,476.
Sulkowski, Theodore S.; and Mascitti, Albert A.,3,466,297.
Sulkowski, Theodore S.; and Mascitti, Albert A.,3,466,298.
Wolf, Milton; and Mascitti, Albert A.,3,458,525.
Masco Corporation: *See—*
Manoogian, Alex, 3,422,849.
Mascolo, Benjamin R.: *See—*
Osher, Benjamin B.; and Mascolo, Benjamin R.,3,483,909.
Mase, Kazuo: *See—*
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo,3,436,323.
Masel, Marvin; and Prill, Robert S., to Singer-General Precision, Inc. Trip-flop stepper motor driver. 3,458,720, 7-29-69, Cl. 307-223.
Masel, Marvin: *See—*
Prill, Robert S.; Masel, Marvin; and McKenna, Joseph V.,3,438,026.
Maselli, James M.: *See—*
Bieniek, Thomas; and Maselli, James M.,3,443,913.
Maselli, James M., to Grace, W. R., & Co. Phosphonitrilic laminating and molding resins employing Mg(OH) as a curing catalyst. 3,433,767, 3-18-69, Cl. 260-51.
Maselli, James M.; and Rice, Rip G., to Grace, W. R., & Co. High temperature phosphorus containing molding compositions and ceramics. 3,449,288, 6-10-69, Cl. 260-37.
Maselli, Mario. Refractometer with compensating photocells. 3,487,069, 12-30-69, Cl. 250-218.
Maserjian, Joseph: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,456,112.
Mash, Derek Hubert; and Peters, Jack Rowland, to International Standard Electric Corporation. Electric circuit for the detection and amplification of electromagnetic radiation. 3,470,378, 9-30-69, Cl. 250-211.
Mashburn, William H., to Electro-Tec Corporation. Metallic wool pellet bursh assembly for slip rings, commutators or the like. 3,448,312, 6-3-69, Cl. 310-239.
Masheder Design Studies Limited: *See—*
Masheder, Henry, 3,472,270.
Masheder, Henry, to Masheder Design Studies Limited. Ball valves. 3,472,270, 10-14-69, Cl. 137-315.
Masher, Dale P.: *See—*
Bialik, Jack J.; Masher, Dale P.; and Stevens, William W.,3,430,095.
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C., to Detroit Edison Company, The. Capacitively graded modular pothead for H-V cable. 3,479,443, 11-18-69, Cl. 174-73.
Mashimo, Tomoyuki: *See—*
Sagara, Hideo; Iwasaki, Yasuhiro; Ohe, Tsutomu; and Mashimo, Tomoyuki,3,431,630.
Mashinno-Elecktiotechnitcheski Institut: *See—*
Slavov, Ivan Atanassov; Daskalov, Kiril Dimitrov; Ganev, Petar Levtchev; Mandjakov, Stefan Petrov; and Barzakov, Petko Ivanov, 3,435,669.
Mashio, Fujio; and Fukui, Kiyoshi, to Sumitomo Chemical Company, Ltd. Process for imparting wet and dry crease resistance to textile fabrics with an N- methylolate acrylamide telomer. 3,458,349, 7-29-69, Cl. 117-139.4
Mashio, Fujio; and Kusaga, Atsushi, to Sumitomo Chemical Company, Ltd. Novel methylolated acrylamide telomer. 3,457,232, 7-22-69, Cl. 260-72.
Masi, James V.: *See—*
Lidoski, Joseph F.; and Masi, James V.,3,474,379.
Masi, James V., to Mid-Continent Manufacturing Co. Radiation responsive electrical device having an extended spectral response characteristic. 3,484,606, 12-16-69, Cl. 250-71.
Masi, Lamberto. Perforated sun visor particularly for motor vehicles. 3,445,135, 5-20-69, Cl. 296-97.
Masino, John Albert; Sturdevant, Eugene J.; and Williams, Stanley Victor, to Du Pont de Nemours, E. I., and Company. Yarn package support inspector. 3,479,520, 11-18-69, Cl. 250-222.
Maskal, John; Thompson, Ivan M.; and Waldron, George W., to Dow Chemical Company, The. Method of purifying magnesium values. 3,447,899, 6-3-69, Cl. 23-67.
Maskal, John: *See—*
Thompson, Ivan M.; and Maskal, John,3,451,774.
Maskall, Peter Thomas Reginald, to Associated Electrical Industries Limited. Molds for electroslag refining. 3,448,790, 6-10-69, Cl. 164-348.
Maskell, Richard M.: *See—*
Mac Lean, Archibald, Jr.; Maskell, Richard M.; Sill, Thomas E.; and Wagner, William F.,3,463,357.
Maslan, Frank, to Avco Corporation. Method and apparatus utilizing an MHD electric power generator for thermal fixation of atmospheric nitrogen. 3,471,723, 10-7-69, Cl. 310-11.
Maslan, Michael M.: *See—*
Freeman, Habern W., 3,421,760.
Maslennikov, Vladilen Andrianovich; and Khinich, Isak Yakovlevich. Con crusher with non-eccentric drive. 3,446,445, 5-27-69, Cl. 241-209.
Maslov, Leonid Ivanovich: *See—*
Roschin, Vladislav Vasilievich; Muromtsev, Boris Ivanovich; Gusakov, Gennady Nilolaevich; and Maslov, Leonid Ivanovich,3,480,758.
Maslow, Arthur L.: *See—*
Maslow, Ralph; and Maslow, Arthur L.,3,477,584.
Maslow, Louis. Readily assemblable and adjustable shelving. 3,424,111, 1-28-69, Cl. 108-144.
Maslow, Louis. Caster brake assembly. 3,431,584, 3-11-69, Cl. 16-35.
Maslow, Louis. Caster assembly. 3,479,681, 11-25-69, Cl. 16-35.
Maslow, Mac. Detachable handle construction for dishes. 3,420,401, 1-7-69, Cl. 220-95.
Maslow, Ralph; and Maslow, Arthur L. Reel carriage. 3,477,584, 11-11-69, Cl. 211-40.
Masolo, Carlo. Fabric loom temple. 3,465,792, 9-9-69, Cl. 139-266.
Masologites, George P.: *See—*
Jacobs, Harry E.; Jubin, John C., Jr.; and Masologites, George P.,3,454,666.
Masologites, George P.; Jacobs, Harry E.; and White, Paul J., to Atlantic Richfield Company. Process for removal of sulfur and metals from petroleum materials. 3,472,759, 10-14-69, Cl. 208-59.
Masologites, George P.; Jacobs, Harry E.; and White, Paul J., to Atlantic Richfield Company. Two-stage treatment of high sulfur content petroleum materials. 3,477,943, 11-11-69, Cl. 208-89.
Mason & Hanger-Silas Mason Co., Inc.: *See—*
Cappel, Marvin, Jr.; and Sutton, David R., 3,475,721.
Sneddon, Louis L., 3,475,055.
Mason, Anthony, to Whirlpool Corporation. Adjustable two-speed two-stroke agitator. 3,473,351, 10-21-69, Cl. 68-133.
Mason, Austin B.; and Wilkie, Robert C., to Ludlow Corporation. Non-woven reinforced blown rubber underpad. 3,455,772, 7-15-69, Cl. 161-122.
Mason, Charley Mack: *See—*
Chaney, Preston E.; Ince, Richard W.; and Mason, Charley Mack,3,487,002.
Mason, Colin P., to Polymer Corporation Limited. Method of preparing a composition comprising an adherend and an adhesive latex mixture. 3,467,563, 9-16-69, Cl. 156-72.
Mason, Collins. Coacting doll and cradle, including electric sounder and time delay device. 3,483,655, 12-16-69, Cl. 46-232.
Mason, David McArthur, to Institute of Gas Technology. Supported skeletal nickel catalyst. 3,448,060, 6-3-69, Cl. 252-466.
Mason, David M., to Institute of Gas Technology. Method of bonding aluminum nickel alloy particles. 3,475,524, 10-28-69, Cl. 264-82.
Mason, Don F., to Duda, A., & Sons, Inc. Fruit preservation process. 3,472,662, 10-14-69, Cl. 99-168.
Mason, E. N., & Sons Limited: *See—*
Chadwick, Francis Neville; Broad, David; and Boutle, David Leonard, 3,475,762.
Mason, Everett F. Bar pivot for cotton harvesting machine. 3,464,193, 9-2-69, Cl. 56-47.

Mason, Frederick Percival, to Creed & Company Limited. Data editing system. 3,474,416, 10-21-69, Cl. 340-172.5
Mason, Gilbert E.; and Armbruster, Howard L., to American Zinc Company. Photoconductive zinc oxide coating compositions and method of producing them. 3,431,106, 3-4-69, Cl. 96-1.8
Mason, Gilbert E.: *See*—
Klein, Otto C.; and Mason, Gilbert E.,3,429,662.
Mason, Harry L., to Vogue Instrument Corporation, mesne. Production monitoring apparatus. 3,422,413, 1-14-69, Cl. 340-213.
Mason, Jimmie L., to Rexall Drug and Chemical Company. Plural source valved pressurized fluid dispenser. 3,447,722, 6-3-69, Cl. 222-136.
Mason, John F.: *See*—
Robirds, Richard W.; and Mason, John F.,3,470,821.
Mason, John Jefferson: *See*—
Clark, Charles Alfred; Butt, Ronald John; and Mason, John Jefferson,3,446,680.
Mason, Kenneth A., to Honeywell Inc. Control apparatus sensitive to eye movement. 3,462,604, 8-16-, Cl. 250-206.
Mason, Kurt E.; and Volkmann, Josef F., said Volkmann assor to Shur-Lok Corporation. Floating fastener. 3,481,244, 12-2-69, Cl. 85-72.
Mason, Louis A., to Chemical Construction Corporation. Method and apparatus for the concentration of dilute black liquor. 3,439,724, 4-22-69, Cl. 159-13.
Mason, Lowell L. Apparatus for and method of reclaiming bedding material. 3,437,487, 4-8-69, Cl. 99-2.
Mason, Raymond J., to Minarik Electric Company. Tachometer feedback circuit for D.C. motor speed control. 3,441,826, 4-29-69, Cl. 318-327.
Mason, Raymond J., to Minarik Electric Company. D. C. motor speed control circuit. 3,447,055, 5-27-69, Cl. 318-331.
Mason, Richard Lewis: *See*—
Palmleaf, Herbert; Koehler, Albert T.; and Mason, Richard Lewis,3,483,900.
Mason, Robert B., to Monsanto Company. Manufacture of blow molded plastic articles. 3,444,285, 5-13-69, Cl. 264-98.
Mason, Robert B.; and Fuerst, Edwin W., to Monsanto Company. Method for blow molding a container incorporating pearlescent material. 3,420,924, 1-7-69, Cl. 264-98.
Mason, Robert B.; Winchester, Raymond E., Jr.; and Strauss, Robert G., to Monsanto Company. Method for selectively controlling the extrusion of plastic material. 3,420,926, 1-7-69, Cl. 264-167.
Mason, Robert E., to Johns Hopkins University, The. Bio-medical instrumentation electrode. 3,464,404, 9-2-69, Cl. 128-2.06
Mason, Ronald F., to Shell Oil Company. Tricyclic phosphines and the preparation thereof. 3,435,076, 3-25-69, Cl. 260-606.5
Mason, Ronald F.: *See*—
Smith, Curtis W.; and Mason, Ronald F.,3,456,017.
Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F.,3,420,898.
Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F.,3,440,291.
Mason, Stanley I., Jr., to Hunt-Wesson Foods, Inc. Container having a spout and a hollow handle. 3,434,635, 3-25-69, Cl. 222-468.
Mason, Steven J. A-frame construction. 3,464,167, 9-2-69, Cl. 52-22.
Mason, Thomas A., to Container Corporation of America. Shadow box display. 3,482,678, 12-9-69, Cl. 206-45.14
Mason, William H.: *See*—
Appelt, Weldon F.; and Mason, William H.,3,430,582.
Masone, Louis George. Method of attaching horseshoes. 3,470,960, 10-7-69, Cl. 168-4.
Masonson, Martin, to United States of America, Army, mesne. Multi-channel receiving system in which each channel's weight in the combined output depends on the rate of fading in said channels. 3,475,688, 10-28-69, Cl. 325-305.
Masquelier, Jacques, to Societe Civile de Recherche Pharmaceutique et Therapeutique. Hydroxyflavan 3,4-diols, a method of producing them and medicament based thereon. 3,436,407, 4-1-69, Cl. 260-345.2
Masri, Merle Sid; Vix, Henry L. E.; and Goldblatt, Leo A., to United States of America, Agriculture. Process for de-toxifying substances contaminated with aflatoxin. 3,429,709, 2-25-69, Cl. 99-2.
Massa, Cesar, to Aktiengesellschaft Conrad Zschokke. Deformable shock absorber. 3,450,233, 6-17-69, Cl. 188-1.
Massa Division, Dyamics Corporation of America: *See*—
Massa, Frank, 3,480,258.
Massa Division, Dynamics Corporation of America: *See*—
Massa, Frank, 3,464,672.
Massa, Frank; and Barrow, Gilbert C., 3,474,403.
Massa, Frank, 3,487,353.
Massa, Frank, Jr., 3,441,903.
Massa, Frank, Jr., to Massa Division Dynamics Corporation of America. Electracoustic transducer with improved electromagnetic drive. 3,441,903, 4-29-69, Cl. 340-8.
Massa, Frank, Jr., to Dynamics Corporation of America. Electroacoustic transducer with multiple beam characteristics. 3,478,309, 11-11-69, Cl. 340-9.
Massa, Frank, to Dynamics Corporation of America. Electroacoustic transducer with improved shock resistance. 3,460,061, 8-5-69, Cl. 340-8.
Massa, Frank, to Massa Division, Dynamics Corporation of America. Sonic processing transducer. 3,464,672, 9-2-69, Cl. 259-1.
Massa, Frank, to Massa Division, Dyamics Corporation of America. Ultrasonic cleaner. 3,480,258, 11-25-69, Cl. 259-72.
Massa, Frank, to Massa Division, Dynamics Corporation of America. Underwater separable connector. 3,487,353, 12-30-69, Cl. 339-89.
Massa, Frank; and Barrow, Gilbert C., to Massa Division, Dynamics Corporation of America. Electroacoustic transducer with improved shock resistance, 3,474,403, 10-21-69, Cl. 340-10.
Massa, Harry E., to Stratford Engineering Corporation. Alkylation of alkyl sulfates. 3,442,972, 5-6-69, Cl. 260-683.61
Massa, Victor F.; and Gross, George P., to Esso Research and Engineering Company. Method and apparatus for treating automotive exhaust gas. 3,460,901, 8-12-69, Cl. 23-2.
Massachusetts Institute of Technology: *See*—
Alonso, Ramon L.; Oleksiak, Robert E.; and Turner, William B., 3,451,129.
Badessa, Rosario S., 3,430,151.
Berg, Robert S.; and Howland, Bradford, 3,448,421.
Britton, Robert A., 3,475,410.
Broxmeyer, Charles; and De Simone, Aldo, 3,426,592.
Coccoli, Joseph D.; and Koso, Dusan A., 3,469,922.
Cope, Arthur C.; and Siekman, Robert W., 3,424,739.
Dertouzos, Michael L.; and Graham, Huber L., 3,449,721.
Drouilhet, Paul R., Jr.; and Holsinger, Jerry L., 3,444,468.
Fano, Robert M., 3,457,562.
Ferretti, August; and Germann, Richard W., 3,444,616.
Fertig, Kenneth; and Edwards, Rodney, Jr., 3,483,457.
Gold, Bernard; and Tierney, Joseph, 3,471,644.
Jacobson, Lynn A., 3,486,007.
Maxwell, Emanuel, 3,445,753.
Melcher, James R., 3,463,944.
Melngailis, Ivars; and Calawa, Arthur R., 3,463,680.
Meservey, Robert H., 3,443,214.
Milas, Nicholas A., 3,458,557.
Montgomery, Donald B.; and Pierce, Norton T., 3,466,579.
Raffel, Jack I., 3,452,342.
Rediker, Robert H.; Hinkley, Everett D.; and Jadus, Dale K., 3,486,949.
Ricardi, Leon J.; and Rosenthal, Milton L., 3,478,362.
Rockower, Bertram, 3,485,211.
Smith, Donald O., 3,427,092.
Smith, Donald O., 3,451,740.
Sullivan, Douglas R., 3,465,226.
Teager, Herbert M., 3,440,643.
Townes, Charles H.; Garmire, Elsa M.; Chiao, Raymond Y.; and Stoicheff, Boris P., 3,469,107.
Utech, Harvey P.; and Flemings, Merton C., 3,464,812.
Waugh, John S., 3,474,329.
Massagli, Daniel, to Tru-lok Metal Fabricating Company, Inc. Construction panel. 3,479,784, 11-25-69, Cl. 52-588.
Massam, Joseph Paul; and Seaman, David, to Imperial Chemical Industries Limited. Manufacture of pigment compositions. 3,437,503, 4-8-69, Cl. 106-309.
Massanova, Joseph M.: *See*—
Massanova, Joseph M.; and Melso, Vincent R., 3,465,108.
Massanova, Joseph M.; and Melso, Vincent R., to Massanova, Joseph M. Time delay switch. 3,465,108, 9-2-69, Cl. 200-33.
Massar, Ernst, to Siemens Aktiengesellschaft. Apparatus for generating an electric current in a superconductive coil. 3,427,482, 2-11-69, Cl. 310-10.
Massar, Ernst, to Siemens Aktiengesellschaft. Current limiting device. 3,443,255, 5-6-69, Cl. 336-58.
Massenet, Olivier: *See*—
Neel, Louis; Bruyere, Jean-Claude; Massenet, Olivier; and Montmory, Robert,3,484,757.
Massengill, S. E., Company, The: *See*—
Barr, Fred S.; and Collins, Galen F., 3,475,540.
Masser, Lloyd D., to Neway Equipment Company. Suspension structure for automotive vehicles. 3,482,854, 12-9-69, Cl. 280-124.
Masser, Lloyd D., to Neway Equipment Company. Fifth wheel dolly with air suspension. 3,486,768, 12-30-69, Cl. 280-476.
Masserini, Arnaldo: *See*—
D'Alo, Franco; and Masserini, Arnaldo,3,429,883.
Massey, Dulas L., to International Systems & Controls Corporation. Fluid actuated directional drilling sub. 3,457,999, 7-29-69, Cl. 175-61.
Massey, Edward J., 1/2 to Kehr, Richard. Can holder. 3,458,164, 7-29-69, Cl. 248-145.6
Massey, Gail A., to Sylvania Electric Products Inc. Method and apparatus for producing light having a single frequency. 3,432,770, 3-11-69, Cl. 331-94.5
Massey, Gail A., to Sylvania Electric Products, Inc. Apparatus and method for producing holograms with acoustic waves. 3,467,216, 9-16-69, Cl. 181-0.5
Massey, Grant W., 2/3 to Kollar, James A., mesne. Exercise and gymnastic stand. 3,430,954, 3-4-69, Cl. 272-62.

Massey, James Lee, to Codex Corporation. Processing signal information. 3,439,334, 4-15-69, Cl. 340-146.1
Massey, James M.; and Pitts, Robert C., Sr., to Medalist Industries, Inc. Packaing machine. 3,451,187, 6-24-69, Cl. 53-29.
Massey, Joel H.: *See—*
Creedon, Jerome M.; and Massey, Joel H.,3,485,167.
Massey, John P., to Dormount Allen Company Inc. Order picking mechanism. 3,426,922, 2-11-69, Cl. 214-2.
Massey, Ralph N., to Speed King Manufacturing Company, Inc. Grain auger apparatus. 3,456,818, 7-22-69, Cl. 214-17.
Massey, Richard P.: *See—*
Harris, William B.; and Massey, Richard P.,3,479,533.
Massey, Roger G., to Torrington Company, The. Overrunning clutch with controlled operation. 3,476,226, 11-4-69, Cl. 192-27.
Massey, Ronald, to Monsanto Chemicals Limited. Containers. 3,480,197, 11-25-69, Cl. 229-43.
Massey-Ferguson (Australia) Limited: *See—*
Driller, Keith T., 3,482,690.
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W., 3,434,270.
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W., 3,434,271.
Zagorski, Jacek Januariusz; and Wright, Ernest Walter, 3,473,308.
Massey-Ferguson G.m.b.H.: *See—*
Wenzel, Alfred J.; and Hantel, Alwin K., 3,467,424.
Massey-Ferguson Inc.: *See—*
Beebe, Raymond A.; and Jones, John R., 3,486,659.
Bunting, Ernest V.; and Lind, Hans V., 3,422,906.
Doll, Robert M., 3,467,212.
Kramer, Richard W., 3,467,200.
Mark, Alexander H.; and Necas, Joseph, 3,426,760.
Mark, Alexander H., 3,430,633.
Mark, Alexander H.; and Knicely, David R., 3,431,713.
Mark, Alexander H.; and Morrison, John E., Jr., 3,434,437.
Noller, Fred W.; Bingley, George W.; and Smith, Jerald T., 3,452,882.
Peterson, Merton W., 3,460,720.
Richey, Clarence B., 3,428,135.
Richey, Clarence B., 3,430,703.
Richey, Clarence B., 3,430,705.
Richey, Clarence B.; and Kramer, Richard W., 3,438,448.
Richey, Clarence B., 3,460,630.
Richey, Clarence B., 3,460,632.
Richey, Clarence B.; and Kramer, Richard W., 3,460,633.
Richey, Clarence B.; and Rasmussen, Ronald E., 3,472,528.
Richey, Clarence B., 3,477,517.
Rutkowski, Gerald L., 3,477,314.
Massey-Ferguson Industries Limited: *See—*
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter, 3,457,797.
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter, 3,466,854.
Butler, James G.; and Ashton, Robert, 3,442,069.
Guillon, Jacques S., 3,486,287.
Twidale, William H., 3,481,408.
Massey-Ferguson Limited: *See—*
Lee, John H. A., 3,456,786.
Massey-Ferguson Services N.V.: *See—*
Bailey, Alfred J.; and Greig, James D., 3,434,737.
Lundell, Vernon J., 3,425,362.
Pensa, Pietro, 3,441,114.
Pensa, Pietro, 3,465,839.
Pensa, Pietro, 3,465,904.
Pensa, Pietro, 3,480,156.
Massman, Albert W., to Motorola, Inc. Dual mode transistorized oscillator. 3,473,080, 10-14-69, Cl. 315-27.
Massoll, Stanley R.; and Roper, Donald G., to General Motors Corporation. Cornering lamp assembly. 3,435,200, 3-25-69, Cl. 240-8.2
Masson, Fredy. Pressure reducer with check valve. 3,454,041, 7-8-69, Cl. 137-505.25
Masson, Henri, to Serametta S.A. Clothes-hanger. 3,459,348, 8-5-6, Cl. 223-87.
Masson, James C., to Monsanto Chemical Company. Dye receptive acrylonitrile polymers comprising copolymerized alkyl allyloxy benzene sulfonates. 3,426,104, 2-4-69, Cl. 260-895.
Masson, Robert Gaston: *See—*
Ollier, Jacques Honore Gaspard; Grosshans, Georges Frederic; and Masson, Robert Gaston,3,430,411.
Masson Scott Thrissel Engineering Limited: *See—*
Marsh, Hugh R. W.; and Taylor, Colin, 3,450,364.
Masson Scott Thrissell Engineering Limited: *See—*
Byrt, Graham Archie Bruce, 3,465,981.
Marsh, Hugh Robert Waring; and Wilshin, Frank William, 3,430,950.
Massoni, Donald R.: *See—*
Brooks, Chester E.; Henry, James L.; Linhart, Peter B.; Markthaler, Grace E.; Massoni, Donald R.; and Meyerle, John A.,3,462,557.
Massonne, Joachim: *See—*
Pauksch, Heinrich; and Massonne, Joachim,3,466,341.
Massoubre, Jean-Marie, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Polyesterurethane elastomers vulcanizable in live steam. 3,429,948, 2-25-69, Cl. 260-859.
Massoubre, Jean-Marie, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Cold self-vulcanizing rubber compositions. 3,477,968, 11-11-69, Cl. 260-4.
Mast, Aquila D., to Sperry Rand Corporation. Wafering device. 3,420,160, 1-7-69, Cl. 100-39.
Mast development Company: *See—*
Brewer, Alan, 3,450,620.
Mast, Florence R. Wig. 3,485,249, 12-23-69, Cl. 132-53.
Mast, Harm: *See—*
Ongkiehong, Leo; and Mast, Harm,3,432,000.
Mast, William C.: *See—*
Bauer, Richard G.; Bletso, Nelson C.; Mast, William C.; and Pierson, Robert M.,3,475,516.
Mast-Foos Manufacturing Company: *See—*
Musgrave, Orly, 3,457,798.
Musgrave, Orly, 3,460,325.
Master Addresser Company: *See—*
Wright, Ansel J.; and Rasmussen, Robert F., 3,485,166.
Master Appliances, Inc.: *See—*
Friedman, Morris, 3,448,957.
Master Lock Company: *See—*
Foote, Daniel J., 3,422,643.
Foote, Daniel J., 3,422,644.
Foote, Daniel J., 3,423,968.
Foote, Daniel J., 3,423,969.
Foote, Daniel J., 3,473,352.
Foote, Daniel J., 3,475,930.
Foote, Daniel J., 3,475,931.
Foote, Daniel J., 3,476,429.
Foote, Timothy C.; and Buchmann, Kenneth H., 3,422,560.
Owen, Roger L.; and Foote, Daniel J., 3,453,846.
Soref, Samuel M.; and Foote, Daniel J., 3,453,758.
Master Pneumatic-Detroit, Inc.: *See—*
Gleason, Quin R.; and Thrasher, George E., Jr., 3,421,600.
Master Swaging & Mfg., Company: *See—*
Calim, Thomas A., 3,450,382.
Mastercraft Electronics Corporation: *See—*
Lester, Robert William; and Trunk, Edmond G., 3,458,657.
Masters, Allen L., to International Agri-Systems, Inc. Poultry picking machine. 3,441,979, 5-6-69, Cl. 17-11.1
Masters, Allen L., to International Agri-Systems, Inc. Poultry picking drum guard. 3,453,685, 7-8-69, Cl. 17-11.1
Masters, John Edward, to Celanese Coatings Company. Epoxidized urethane oils. 3,424,766, 1-28-69, Cl. 260-348.
Masters, John E., to Celanese Coatings Company. Urethane modified epoxy resins. 3,424,719, 1-28-69, Cl. 260-47.
Masterson, Daniel J.: *See—*
Coglaiti, Joseph S., Jr; and Masterson, Daniel J.,3,459,497.
Masterson, Earl E., to Honeywell Inc. Curving flexure-armature. 3,453,572, 7-1-69, Cl. 335-276.
Masterson, Earl E.: *See—*
Eveland, Baisel L.; Hart, Joseph C.; and Masterson, Earl E.,3,420,518.
Masterson, Joseph B., to General Cable Corporation. Gas tight plugs for communication cables. 3,427,393, 2-11-69, Cl. 174-23.
Mastic Corporation: *See—*
Mattes, Lee H., 3,485,004.
Mastrjukov, Lev Alexandrovich. Coreless high voltage electrical reactor. 3,469,220, 9-23-69, Cl. 336-210.
Mastroianni, Emilio G.: *See—*
Goodman, Robert C.; and Mastroianni, Emilio G.,3,435,751.
Mastronardi, Patrick: *See—*
Ballantine, James S.; and Mastronardi, Patrick,3,473,436.
Mastropole, Alfred J.: *See—*
Gendron, George J.; Garnjost, Kenneth D.; and Mastropole, Alfred J.,3,452,830.
Mastropolo, Sal. Harpoon. 3,444,642, 5-20-69, Cl. 43-6.
Mastrosimone, Michael; and Rosenthal, Henry. Apparatus for removing film from a packet and developing, fixing, washing a drying the film. 3,437,030, 4-8-69, Cl. 95-93.
Mastrup, Frithjof N., to TRW, Inc. Ablating lamp with improved gas evolving apparatus. 3,428,860, 2-18-69, Cl. 315-111.
Mastrup, Frithjof N., to TRW Inc. Pulsed ablating thruster apparatus. 3,447,322, 6-3-69, Cl. 60-203.
Mastursi, Michele: *See—*
Viterbo, Rene; Mastursi, Michele; and Lembo, Sabino,3,457,264.
Masucci, Albino. Adjustable bi-focal spectacles. 3,425,773, 2-4-69, Cl. 351-55.
Masucci, Eugene D., to Bell Telephone Laboratories, Incorporated. Telephone line hunting system. 3,479,465, 11-18-69, Cl. 179-18.
Masuda, Hiroshi: *See—*
Miyazawa, Homare; Tarui, Shoichi; Kamada, Masaki; and Masuda, Hiroshi,3,465,721.

Masuda, Katsutada: *See—*
Hirano, Hiroshi; Masuda, Katsutada; Kawai, Kiyohisa; and Shimahara, Noboru,3,465,044.
Hirano, Hiroshi; Masuda, Katsutada; Numata, Mitsuo; and Oka, Yoshikazu,3,455,956.
Ishii, Toshio; Takamatsu, Yasuto; Yurigi, Shojiro; and Masuda, Katsutada,3,483,292.
Masuda, Kohei: *See—*
Anno, Takamitsu; Masuda, Kohei; Hachiya, Kikuo; and Hattori, Takeo,3,451,884.
Masuda, Kotaro: *See—*
Ohashi, Tamotsu; Masuda, Kotaro; Imai, Masatake; and Morishima, Takeshi,3,459,557.
Masuda, Masami, to International Mechanical Vibration Laboratory, Inc. Electromagnetic vibration apparatus. 3,467,925, 9-16-69, Cl. 335-221.
Masuda, Mitsuo: *See—*
Yamamoto, Naonari; Masuda, Mitsuo; Saikawa, Toshihiko; Tsubota, Akira; Shida, Yasuo; and Matsumura, Toshiji,3,440,688.
Masuda, Mutsuo: *See—*
Kobayashi, Yoshichika; Masuda, Mutsuo; and Murayama, Setsuko,3,458,450.
Kobayashi, Yoshichika; Masuda, Mutsuo; Mizuno, Hideo; and Murayama, Setsuko,3,457,184.
Kobayashi, Yoshichika; Masuda, Mutsuo; Murayama, Setuko; and Mizuno, Hideo,3,458,451.
Masuda, Noboru, to Denki Onkyo Co., Ltd. Transparent electrostatic recording medium. 3,472,687, 10-14-69, Cl. 117-211.
Masuda, Senichi, to Onoda Cement Company, Limited. Apparatus for electrostatic precipitation of dust. 3,444,668, 5-20-69, Cl. 55-118.
Masuda, Toru: *See—*
Honjo, Mikio; Masuda, Toru; Imai, Kinichi; Fujii, Shoichiro; and Takanohashi, Kunio,3,423,399.
Masuda, Yoshihiro: *See—*
Nagatsu, Hiroshi; Mimura, Yoshiaki; Izumi, Hideo; and Masuda, Yoshihiro,3,436,614.
Masujima, Sho. Method of manufacturing capacitors. 3,443,293, 5-13-69, Cl. 29-25.42
Masuko, Hitoshi: *See—*
Yanagimachi, Akio; Iwasawa, Takashi; Masuko, Hitoshi; and Yaguchi, Keiichi,3,454,713.
Masunaka, Shigenobu: *See—*
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru,3,437,620.
Masurel, Michel: *See—*
Halleux, Hubert; and Masurel, Michel,3,421,186.
Masutani, Christopher H. Manual plane. 3,481,377, 12-2-69, Cl. 145-5.
Matano, Susumu: *See—*
Ito, Yasumichi; Tuji, Akira; and Matano, Susumu,3,482,757.
Matarese, Joseph F. Expansion and control joint cover. 3,439,463, 4-22-69, Cl. 52-288.
Matas, Stephen J.: *See—*
Hill, Morse; and Matas, Stephen J.,3,453,152.
Matas, Vyto: *See—*
Martin, Warner W.; and Matas, Vyto,3,456,927.
Matash, Vitaly Konstantinovich: *See—*
Belalov, Khasan Nurievich; Shub, Vladimir Zinovjevich; and Matash, Vitaly Konstantinovich,3,456,332.
Matchen, Ben: *See—*
Watson, George Robert; and Matchen, Ben,3,429,974.
Matcovich, Thomas J.: *See—*
Flannery, William E.; and Matcovich, Thomas J.,3,436,742.
Mate, Peter I.: *See—*
Bloom, Aaron; Wilcox, Orland W.; and Mate, Peter I.,3,459,216.
Matejka, Jaroslav; and Kastovsky, Jiri, to Vyzkumny ustav matematickych stroju. Digital counter arrangement. 3,436,527, 4-1-69, Cl. 235-92.
Mater, Charles E., to Reeves Brothers, Inc. Microporous polyurethane coatngs and films. 3,486,968, 12-30-69, Cl. 161-190.
Materials Handling Systems, Inc.: *See—*
Howard, William E., 3,448,880.
Matern, Eugene V.: *See—*
Johnsen, Vernon L.; Matern, Eugene V.; and Burnett, Raymond S.,3,475,404.
Mates, Jack K., to American Velcro, Inc. Suspension system for nets and the like. 3,450,405, 6-17-69, Cl. 273-29.
Mates, Jack K., to American Velcro, Inc. Necktie holder. 3,453,696, 7-8-69, Cl. 24-49.
Mates, Jack K,, to American Velcro, Inc. Fluid-tight closure assembly. 3,464,094, 9-2-69, Cl. 24-204.
Mates, Jack K., to American Velcro, Inc. Separation of rigid members joined by hook and loop. 3,475,810, 11-4-69, Cl. 29-427.
Matesan, Ante. Drill hole marker plug. 3,451,370, 6-24-69, Cl. 116-114.
Matex Corporation: *See—*
Johnson, Arthur J.; and Bakker, Willem F., 3,487,186.
Mathamel, Flavius A., to Burroughs Corporation. Transducer. 3,451,053, 6-17-69, Cl. 340-347.
Mathamel, Flavius A., to Burroughs Corporation. Current driver. 3,482,118, 12-2-69, Cl. 307-270.
Mathamel, Flavius A.; and Shukla, Narendra M., to Burroughs Corporation. Keyboard controlled magnetic core information storage and transfer system. 3,439,117, 4-15-69, Cl. 178-17.
Mathe, George L.; and Boothe, Floyd G., Jr., to Morris, Philip, Incorporated. Cleaner device for cleaning residue from the cutting edge of a rotary disc type cutter. 3,460,418, 8-12-69, Cl. 83-168.
Mathe, George L.: *See—*
Mutter, Walter F.; and Mathe, George L.,3,481,817.
Matheis, Kenneth J., to Amerace Esna Corporation, mesne. Programmer. 3,480,792, 11-25-69, Cl. 307-141 .
Matheis, Wolfgang: *See—*
Marcus, Wilhelm, 3,456,608.
Mathelin, Guy J. Anti-smudging printing composition containing a polysaccharide-fluorocarbon derivative combination. 3,464,936, 9-2-69, Cl. 260-9.
Mather Company, The: *See—*
Wakeman, Clifford M., 3,420,548.
Walchle, David L.; Hudson, Raymond A.; and Sekulich, Stephen A., 3,443,845.
Mather, Glenn E., to North American Rockwell Corporation. Coil spring. 3,468,527, 9-23-69, Cl. 267-1.
Mather, Pickands & Co.: *See—*
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H. H., 3,472,649.
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H.H., 3,472,650.
Mather, Selwyn R., to Richardson Company, The. Preparation of rubber compositions. 3,422,052, 1-14-69, Cl. 260-33.6
Matherne, Lee. Pipe stabber with setscrews. 3,475,038, 10-28-69, Cl. 285-27.
Matherne, Mederic J., Jr., to United States of America, Health, Education and Welfare. Channel layer chromatography. 3,465,884, 9-9-69, Cl. 210-323.
Mathers, Charles T., to Rheem Manufacturing Company. Laminated shank. 3,460,634, 8-12-69, Cl. 172-708.
Mathers, Harold M.; and Scott, Paul. Load share control mechanism. 3,479,821, 11-25-69, Cl. 60-97.
Mathers, James E.: *See—*
Toma, Sam Z.; Mathers, James E.; and Mikus, Felix F.,3,424,692.
Yale, Ramon L.; and Mathers, James E.,3,484,381.
Mathers, Robert V., to Fruehauf Corporation. Double acting S-cam for wheel brakes. 3,469,660, 9-30-69, Cl. 188-78.
Mathes, Gunther, to Anstalt fur Montage-Technik. Method and device for clamping. 3,430,903, 3-4-69, Cl. 248-68.
Mathes, Kenneth N., to General Electric Company. Electrical insulation and method of treatment. 3,466,378, 9-9-69, Cl. 174-15.
Mathes, Kenneth N., to General Electric Company. Method of treating insulated wire. 3,479,218, 11-18-69, Cl. 117-231.
Mathes, Kenneth N., to General Electric Company. Cryogenic capacitor. 3,480,846, 11-25-69, Cl. 317-243.
Mathes, Kenneth N.; and Plant, Henry T., to General Electric Company. Composite high voltage, high frequency insulator construction. 3,484,542, 12-16-69, Cl. 174-142.
Mathes, Robert H.: *See—*
Caldwell, John H., IV; Klee, Charles W.; Hiller, Alexander J.; Hanley, Thure E.; and Mathes, Robert H.,3,475,637.
Matheson, James M. Disposable syringe. 3,476,111, 11-4-69, Cl. 128-227.
Matheson, Wilfrid G.; Clune, James P.; and Pricenski, Theodore J., to Sylvania Electric Products, Inc. Electrical heating elements. 3,427,421, 2-11-69, Cl. 219-10.49
Matheson, Wilfrid G.; and Princenski, Theodore J., to Sylvania Electric Products Inc. Electrical heating element. 3,427,547, 2-11-69, Cl. 338-208.
Mathews, Arthur C. Traction device. 3,470,932, 10-7-69, Cl. 152-216.
Mathews, Bentley B.; and Frentzen, Paul T. Conveyor and segregating belt construction. 3,450,260, 6-17-69, Cl. 209-84.
Mathews, Bentley B.; and Frentzen, Paul T. Distribution system and components therefor. 3,469,674, 9-30-69, Cl. 198-54.
Mathews Company, The: *See—*
Lowmaster, Richard L., 3,481,059.
Mathews, E. Engineering Company Limited: *See—*
Henry, Howarth Padgett, 3,447,423.
Mathews, Edward C., to Simmonds Precision Products, Inc. Indicator housing with a pointer driving means having a front face concave scale member. 3,479,591, 11-18-69, Cl. 324-99.
Mathews, Frank Robert: *See—*
Perrine, Ralph J.; and Mathews, Frank Robert,3,447,745.
Mathews, George A., to Ericsson Telephones Limited. Route selection and establishment at telecommunication exchanges using crosspoint switches. 3,482,043, 12-2-69, Cl. 179-18.
Mathews, George P.: *See—*
Gummer, Allen L.; and Mathews, George P.,3,424,062.

Mathews, James A., to Harco Corporation. Cathodic protection system. 3,424,665, 1-28-69, Cl. 204-196.
Mathews, James Travis. Canopy assemblies. 3,441,038, 4-29-69, Cl. 135-5.
Mathews, Joseph W. Moving coil direct current reciprocating motor. 3,469,163, 9-23-69, Cl. 318-127.
Mathews, Marion J., III: *See*—
Campbell, Charles R.; Hicks, John J., Jr.; and Mathews, Marion J., III,3,429,783.
Mathews, Max V.; and McDonald, Henry S., to Bell Telephone Laboratories, Incorporated. Generation of graphic arts images. 3,422,419, 1-14-69, Cl. 340-324.
Mathews, Porter, Scientific Company: *See*—
Glass, Abraham; and Sweeton, Gerard F., 3,467,064.
Mathews, Ralph T., to Du Pont de Nemours, E. I., and Company. Chemical vessel access means. 3,425,588, 2-4-69, Cl. 220-39.
Mathews, Ralph T., to Du Pont de Nemours, E. I., and Company. Louver. 3,479,948, 11-25-69, Cl. 98-121.
Mathews, Ted C. Apparatus and method for separating ore. 3,472,375, 10-14-69, Cl. 209-74.
Mathey, Raymond; Picardat, Bernard; and Lecocq, Robert, to CSF-Compagnie Generale de Telegraphie Sans Fil. Vibrating gyrometers. 3,435,687, 4-1-69, Cl. 73-505.
Mathias Bauerle Gesellschaft mit beschrankter Haftung: *See*—
Porth, Erwin, 3,460,826.
Porth, Erwin, 3,464,691.
Porth, Erwin, 3,481,596.
Mathias, James J.: *See*—
Irvin, Howard B.; and Mathias, James J.,3,458,490.
Mathies, Hans, to Koninklijke Zwavelzuurfabrieken Voorheen Ketjen N.V. Process for forming refractory-oxide- containing gel beads. 3,464,928, 9-2-69, Cl. 252-441.
Mathies, Hartwig. Process for the recovery of polyarthritis antigen. 3,461,200, 8-12-69, Cl. 424-101.
Mathiesen, Arthur J. Plumb bob device. 3,442,025, 5-6-69, Cl. 33-217.
Mathieson, Olin, Chemical Corporation: *See*—
Dietrich, Heinz J.; King, George G.; and Karabinos, Joseph V., 3,427,147.
Mathieu, Alexis, to Solvay & Cie. Method of polymerizing vinyl chloride. 3,436,385, 4-1-69, Cl. 260-42.8
Mathieu, Edmond N.; and Wynn, William R., to Morgan Construction Company. Billet return mechanism. 3,457,757, 7-29-69, Cl. 72-203.
Mathieu, Pierre. Apparatus for washing and scrubbing paint rollers. 3,431,574, 3-11-69, Cl. 15-104.92
Mathis, Clyde H.; and Siedenstrang, Roy W., to Phillips Petroleum Company. Milling cis polybutadiene at temperatures below 100 degrees F. 3,420,808, 1-7-69, Cl. 260-94.7
Mathis, Irving: *See*—
Howard, Darnley M.; and Mathis, Irving,3,451,127.
Mathis, Joseph J.: *See*—
Burton, Jean A.; Geppert, Robert J.; Farmer, James L.; and Mathis, Joseph J.,3,430,831.
Mathis, Pierre: *See*—
Demol, Pierre; and Mathis, Pierre,3,476,587.
Mathis, Pierre; and Demol, Pierre, to Solvay & Cie. Articles coated with vinylidene chloride containing terpolymers. 3,432,340, 3-11-69, Cl. 117-132.
Mathison, Ian William, to Marion Laboratories, Inc. Method and compositions for inducing antiarrhythmic activity in animals. 3,475,538, 10-28-69, Cl. 424-258.
Mathison, Ian William; and Gueldner, Richard Charles, to Marion Laboratories, Inc. Process of producing 2-lower alkyl-5,6,7 or 8-hydroxy decahydroisoquinolines. 3,459,755, 8-5-69, Cl. 260-289.
Mathison, Robert V. Clutch devices. 3,434,577, 3-25-69, Cl. 192-46.
Mathison, Robert V. Windshield washer apparatus. 3,461,475, 8-19-69, Cl. 15-250.01
Mathley, Harry W.; and Dwinell, John L., 51% to said Mathley, 19% to said Dwinell, 10% each to Berman, Robert J. Berman, Bernard S., and Shaikun, Leon J. Mobile home system. 3,469,723, 9-30-69, Cl. 214-516.
Mathot, Jacques: *See*—
Coutant, Andre; and Mathot, Jacques,3,434,640.
Mathur, Girish Prasad; and Shanbhag, Sudhakar Pundlik, to Lever Brothers Company. Process for preparing condensed milk of improved storage characteristics. 3,472,659, 10-14-69, Cl. 99-55.
Mathy, Joseph J. Metal forming tool. 3,440,857, 4-29-69, Cl. 72-306.
Mathys, Ludwig G.: *See*—
Lindenmaier, Ernst E.; Jackel, Edgar; and Mathys, Ludwig G.,3,435,592.
Matias, James J.: *See*—
Kosrow, Robert L.; Matias, James J.; and Hale, Arthur N.,3,486,474.
Matibag, Felipe O. Arm rest for water closets or the like. 3,474,471, 10-28-69, Cl. 4-254.
Matick, Richard E., to International Business Machines Corporation. Thick film read-only memory. 3,460,111, 8-5-69, Cl. 340-174.
Matick, Richard E.; and Sie, Charles H., to International Business Machines Corporation. Thick magnetic film memory device. 3,436,749, 4-1-69, Cl. 340-174.
Matisa Materiel Industriel S.A.: *See*—
Oville, Eugene; and Sauterel, Gerard, 3,444,822.
Sauterel, Gerard, 3,465,688.
Matisse, Paul Henri Robert, to Kalliroscope Corporation, mesne. Graphic display. 3,464,132, 9-2-69, Cl. 40-106.52
Matjunin, German Borisovich: *See*—
Gutnikov, Eduard Julievich; Melnikov, Oleg Nikolaevich; Matjunin, German Borisovich; and Alterman, Iosif Ilich,3,440,932.
Matkovich, George, to Pitney-Bowes, Inc. Method and apparatus for controlling suspension concentrations. 3,440,160, 4-22-69, Cl. 204-180.
Matkovich, George; and Hanson, Walter J. Pitney-Bowes, Inc. Liquid level indicator means. 3,468,604, 9-23-69, Cl. 355-10.
Matkovich, Vlado I.; and Colton, Ervin, to Allis-Chalmers Manufacturing Company. Method of preparing tetraboronsilicide (B_4Si). 3,427,131, 2-11-69, Cl. 23-204.
Matles, Arthur L. Therapeutic shoe. 3,463,163, 8-26-69, Cl. 128-583.
Matles, Arthur L. Therapeutic shoe. 3,463,164, 8-26-69, Cl. 128-583.
Matney, Boyd E. Securing device. 3,425,100, 2-4-69, Cl. 24-110.
Matschkal, Franz, to Staedtler, J. S., Kommanditgesellschaft. Writing utensil. 3,459,486, 8-5-69, Cl. 401-259.
Matson, Carl G. Universal vibrator mount. 3,420,480, 1-7-69, Cl. 248-14.
Matson, Carl G. Jolting apparatus. 3,451,658, 6-24-69, Cl. 259-91.
Matson, Carl G. Vane motor. 3,463,052, 8-26-69, Cl. 91-138.
Matson, Carl G. Wedge pocket vibrator mounting. 3,463,431, 8-26-69, Cl. 248-224.
Matson, Carl G. Diverging bar type vibrator mount. 3,468,504, 9-23-69, Cl. 248-14.
Matson, Carl G. Vibrator clamp means. 3,473,765, 10-21-69, Cl. 248-14.
Matson, Howard J.: *See*—
Beare, Leonard E.; Matson, Howard J.; and Nelson, John W.,3,455,844.
Chao, Tai S.; Matson, Howard J.; and Knonaas, Manley,3,436,348.
Matson, Howard J., to Sinclair Research, Inc. Extreme pressure additives prepared from over lead naphthenate and partially or unneutralized dialkyl dithiophosphoric acid. 3,450,634, 6-17-69, Cl. 252-32.7
Matson, Kenneth W. Floatingly supported undulating platform. 3,451,673, 6-24-69, Cl. 272-35.
Matson, Roland V.: *See*—
Weiss, Bernard; and Matson, Roland V.,3,451,649.
Matson, Ted P.: *See*—
Eccles, Raymond D.; Yates, James E.; and Matson, Ted P.,3,444,087.
Matsubara, Kentaro; and Tohyama, Seikichi, to Japanese National Railways, and Kowa Concrete Company Limited. Ballastless railway track structure. 3,430,857, 3-4-69, Cl. 238-1.
Matsubara, Takeshi: *See*—
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi,3,426,904.
Matsubara, Yasumasa: *See*—
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko,3,455,913.
Matsubayashi, Kanji; and Kawaguchi, Takuo, to Kurashiki Rayon Co., Ltd. Method of preparing powdered polyurethane resins. 3,420,796, 1-7-69, Cl. 260-47.
Matsubayashi, Kanji; and Kawaguchi, Takuo, to Kurashiki Rayon Co., Ltd. Process for the production of polyurethane elastomer. 3,446,771, 5-27-69, Cl. 260-45.85
Matsubayashi, Kanji; and Noda, Kazuo, to Kurashiki Rayon Co., Ltd. Polyurethane composition containing amino- acetalized polyvinyl alcohol. 3,457,327, 7-22-69, Cl. 260-859.
Matsubayashi, Kanji; and Segawa, Hiroyuji, to Kurashiki Rayon Co., Ltd. Low elongation set spandex filaments and process for the preparation thereof. 3,476,850, 11-4-69, Cl. 264-205.
Matsubayashi, Kanji; and Segawa, Hiroyuki, to Kurashiki Rayon Co. Ltd. Polyurethane elastomer compositions. 3,428,598, 2-18-69, Cl. 260-45.75
Matsubayashi, Kanji; Yasui, Takeshi; and Sano, Shiro, to Kurashiki Rayon Co., Ltd. Process for the manufacture of spinning yarn containing elastic fiber. 3,464,198, 9-2-69, Cl. 57-157.
Matsubayashi, Kanji: *See*—
Yamauchi, Junnosuke; Eguchi, Tamotsu; and Matsubayashi, Kanji,3,425,992.
Yasui, Takeshi; and Matsubayashi, Kanji,3,482,010.
Matsubayashi, Tadao; and Suzuki, Yahiko, to Dai Nippon Seito Kabushiki Kaisha Nitto Institute of Chemical Research, The. Method for the preparation of riboflavin. 3,433,707, 3-18-69, Cl. 195-28.

Matsuda, Hisashi: *See*—
Colburn, Steven C.; Hallse, Robert L.; Matsuda, Hisashi; and Mayhall, Joel O.,3,481,010.
Matsuda, Hitoshi, to Nippon Columbia Kabushiki Kaisha (Nippon Columbia Co., Ltd.). Turntable driving apparatus. 3,451,281, 6-24-69, Cl. 74-190.
Matsuda, Naohiro: *See*—
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa,3,440,105.
Matsuda, Sumio; and Kikkawa, Shoichi. Process for preparing organotin halides. 3,440,255, 4-22-69, Cl. 260-429.7
Matsuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi, to Tokyo Shibaura Electric Co., Ltd. Axial transverse tomography wherein the angle of spread of radiation is controlled. 3,484,604, 12-16-69, Cl. 250-61.5
Matsuda, Yoshio; and Ozaki, Shigenobu, to Sumitomo Electric Industries, Ltd. Method of manufacturing a composite metallic wire. 3,443,305, 5-13-69, Cl. 29-474.1
Matsudo, Kazuo; Muroga, Osamu; and Hashimoto, Yukio, to Nippon Kokan Kabushiki Kaisha. Method of manufacturing cold rolled steel sheets. 3,453,858, 7-8-69, Cl. 72-365.
Matsui, Isamu: *See*—
Shimai, Junichiro; Matsui, Isamu; Kawamura, Syuzo; and Sakai, Syoji,3,476,328.
Matsui, Isamu, to Toyo Boseki Kabushiki Kaisha, and Murata Machinery, Ltd. Automatic winder. 3,450,358, 6-17-69, Cl. 242-35.5
Matsui, Isamu; Miyagi, Tamotsu; and Funahashi, Muneaki, to Murata Machinery, Ltd., and Toyo Boseki Kabushiki Kaisha. Automatic cop supplying method and its apparatus of automatic winding machine. 3,480,215, 11-25-69, Cl. 242-35.5
Matsui, Katsuaki: *See*—
Negoro, Harutada; Awada, Etsuo; Ikegami, Yoshihiko; Akagi, Saburo; and Matsui, Katsuaki,3,477,995.
Matsui, Kazuo: *See*—
Ishikawa, Hidehiko; Sato, Mikio; and Matsui, Kazuo,3,466,173.
Matsui, Masanao; Uzo, Keizo; Yamada Yasuhiro; and Wakaki, Shigetoshi, to Kyowa Hakko Kogyo Co., Ltd. 7-Substituted mitomycin a. 3,420,846, 1-7-69, Cl. 260-326.3
Matsui, Masanao; Uzu, Keizo; Yamada, Yasuhiro; and Wakaki, Shigetoshi, to Kyowa Hakko Kogyo Co., Ltd. 1a-Phthaloylglutamylmitomycin C. 3,444,182, 5-13-69, Cl. 260-326.
Matsui, Masanao; Yamada, Yasuhiro; Hirata, Tadashi; and Wakaki, Shigetoshi, to Kyowa Hakko Kogyo Co., Ltd.1α-and/or 7-substituted derivatives of mitomycin. 3,450,705, 6-17-69, Cl. 260-295.
Matsui, Masano; Yamada, Yasuhiro; Uzu, Keigo; Hirata, Tadashi; and Wakaki, Shigetoshi. Acylated mitosenes. 3,429,894, 2-25-69, Cl. 260-326.3
Matsui, Masao: *See*—
Matsumoto, Toyokazu; and Matsui, Masao,3,442,073.
Matsui, Masao, to Kanegafuchi Boseki Kabushiki Kaisha, and SNIA Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Spinneret for conjugate spinning. 3,480,996, 12-2-69, Cl. 18-8.
Matsui, Masao; and Nakamori, Tsuyoshi, to Kanegafuchi Boseki Kabushiki Kaisha, and SNIA Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Method and spinneret device for spinning two- component filaments. 3,459,846, 8-5-69, Cl. 264-171.
Matsui, Masao; and Tokura, Susumu, to Kanegafuchi Boseki Kabushiki Kaisha, and Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Apparatus for developing crimps by heating composite filament. 3,425,107, 2-4-69, Cl. 28-1.
Matsui, Masao; and Tokura, Susumu, to Kanegafuchi Spinning Co. Ltd., and Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Method for treating yarns having potential crimping property. 3,471,605, 10-7-69, Cl. 264-168.
Matsui, Sakae. Flat bed knitting machine. 3,451,229, 6-24-69, Cl. 66-63.
Matsui, Takao: *See*—
Inamiya, Tatsuya; Suzuki, Goro; Tanikawa, Masaru; and Matsui, Takao,3,466,390.
Matsui, Takeshi: *See*—
Moroe, Tatsuo; Hattori, Satohiko; Komatsu, Akira; Matsui, Takeshi; and Kurihara, Haruki,3,459,773.
Moroe, Tatsuo; Komatsu, Akira; Matsui, Takeshi; and Ueda, Kuniaki,3,433,839.
Matsui, Yoshiya, to Canon Camera Kabushiki Kaisha. High speed catadioptric optical system of cassegrain type. 3,438,695, 4-15-69, Cl. 350-201.
Matsui, Yukio: *See*—
Takada, Toshihisa; Ishikawa, Hisao; Tado, Keishi; and Matsui, Yukio,3,481,782.
Matsui, Yutaka; and Goto, Jugo, to Takeda Chemical Industries, Ltd. Method for producing isocyanate trimer. 3,487,080, 12-30-69, Cl. 260-248.
Matsui, Yutaka; Hashimoto, Norishige; and Mise, Nritoshi, to Takeda Chemical Industries, Ltd. Polymerization of vicinal alkylene oxide using a novel organometallic compound polyol cocatalyst. 3,480,567, 11-25-69, Cl. 260--002
Matsukata, Kosuke. Record changer adapter. 3,427,033, 2-11-69, Cl. 274-42.
Matsukawa, Hiroharu: *See*—
Imamiya, Hitoshi; Katayama, Shizuo; Matsukawa, Hiroharu; Kobayashi, Teruo; and Ishige, Sadao,3,463,655.
Matsuki, Yosiaki: *See*—
Matsuo, Shigetomo; Matsuki, Yosiaki; and Kometya, Katsutoshi,3,427,373.
Matsuo, Shigetomo; Matsuki, Yosiaki; and Komeya, Katsutoshi,3,436,179.
Matsukin, Jury Georgievich. Method for hydrodynamic forming of bellows-type articles and a device for their realization. 3,443,409, 5-13-69, Cl. 72-56.
Matsukura, Kameo: *See*—
Fukuda, Nobuo; Shimizu, Mineo; Matsukura, Kameo; and Ando, Narumi,3,420,718.
Matsukura, Kiyoshi: *See*—
Morizumi, Ichiro; Sato, Yuichiro; and Matsukura, Kiyoshi,3,423,250.
Matsumi, Shunji: *See*—
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; Toriuchi, Yahiko; and Matsumi, Shunji,3,446,776.
Matsumoto, Hiroyuki, to Dai Nihon Bungu Co., Ltd. Writing implement. 3,421,823, 1-14-69, Cl. 401-199.
Matsumoto, Jun: *See*—
Murakami, Masuo; Takahahi, Kozo; Matsumoto, Jun; and Iwamoto, Hidenori,3,461,114.
Murakami, Masuo; Takahashi, Kozo; and Matsumoto, Jun,3,459,735.
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi,3,476,777.
Matsumoto, Kazuhiro: *See*—
Atsukawa, Masumi; Nishimoto, Yoshihiko; and Matsumoto, Kazuhiro,3,485,014.
Matsumoto, Kohjiro; Usami, Hisao; and Sekiguchi, Sadao, to Sumitomo Naugatuck Company, Ltd. Method for producing coated papers. 3,481,764, 12-2-69, Cl. 117-62.1
Matsumoto, Koichi: *See*—
Ishida, Shinlchi; Ohama, Hiroshi; and Matsumoto, Koichi,3,422,070.
Matsumoto, Masato; Samejima, Yukihide; and Watanabe, Kazunari, 1/3 each to Corona Kogyo Kabushiki Kaisha, Kabushiki Kaisha Copal, and Kabushiki Kaisha, Tec. Tape recorder head shifting mechanism. 3,426,162, 2-4-69, Cl. 179-100.2
Matsumoto, Nobuo; and Arimitsu, Hidenobu, to Ebara-Infilco Kabushiki Kaisha. Process for the purification of sewage plant effluent. 3,461,067, 8-12-69, Cl. 210-47.
Matsumoto, Ryoso; and Watanabe, Hisao, 1/2 to Teijin Limited, and 1/2 to Tokyo Seiko Co., Ltd. Apparatus for measuring continuously the temperature of traveling yarn. 3,430,492, 3-4-69, Cl. 73-361.
Matsumoto, Shigeru: *See*—
Kono, Yuichi; Matsumoto, Shigeru; and Yoshikawa, Masaru,3,432,273.
Matsumoto, Shuzo, to Shimano Kogyo Kabushiki Kaisha. Rear hub with built-in three stage speed change mechanism for a bicycle. 3,432,013, 3-11-69, Cl. 192-6.
Matsumoto, Tadashi, to Sony Corporation. Sound transducer. 3,480,740, 11-25-69, Cl. 179-121.
Matsumoto, Takao. Multiple revolution type logarithmic rheostat device recording and measuring. 3,471,782, 10-7-69, Cl. 324-113.
Matsumoto, Takehiko: *See*—
Kurata, Naoji; Matsumoto, Takehiko; Ohara, Takashi; and Oda, Kenzo,3,487,109.
Matsumoto, Tohru: *See*—
Kazamaki, Tomokazu; and Matsumoto, Tohru,3,467,462.
Matsumoto, Tom T. Dumping apparatus. 3,443,703, 5-13-69, Cl. 214-82.
Matsumoto, Toru: *See*—
Kazamaki, Tomokazu; and Matsumoto, Toru,3,447,858.
Matsumoto, Toyokazu; and Matsui, Masao, to Kanegafuchi Boseki Kabushiki Kaisha. Stretchable knitted fabrics. 3,442,073, 5-6-69, Cl. 57-140.
Matsumoto, Tsuyoshi; Ito, Tokuo; Komatsu, Kouei; Yasunaga, Hidetoshi; and Ueda, Kenichi, to Japan Synthetic Rubber Co., Ltd. Catalytic production of polybutadiene and catalysts therefor. 3,471,462, 10-7-69, Cl. 260-94.3
Matsumoto, Yoshiyuki, to Nippon Gakki Seizo Kabushiki Kaisha. Action mechanisms for grand pianos. 3,479,915, 11-25-69, Cl. 84-239.
Matsumoto, Yutaro; Hisatsune, Tadashi; Sasaki, Tsutomu; Mitsudo, Fumiaki; and Yamauchi, Yasuhiro, to Yawata Chemical Industry Co., Ltd. Process for the purification of aromatic hydrocarbons. 3,467,723, 9-16-69, Cl. 260-674.
Matsumura, Kenji: *See*—
Kato, Tsuneyuki; Aoshima, Atsushi; Kubota, Yasuhiro; and Matsumura, Kenji,3,446,840.
Matsumura, Kiichiro; Sugawara, Yoshio; Kamaishi, Tadami; and Atarashi, Yuji, to Toyo Rayon Kabushiki Kaisha. Process for

polymerizing α-olefins and poly- merization catalyst therefor containing an organoaluminium sulfate. 3,475,394, 10-28-69, Cl. 260-88.2

Matsumura, Kimio: *See*—
Honda, Juichi; Matsumura, Kimio; Yoshida, Sadao; and Mori, Ryutaro,3,428,407.

Matsumura, Shigeru: *See*—
Izumi, Masahiro; Shima, Hiroshi; Matsumura, Shigeru; and Nobuyuki, Asano,3,453,292.

Matsumura, Toshiji: *See*—
Yamamoto, Naonari; Masuda, Mitsuo; Saikawa, Toshihiko; Tsubota, Akira; Shida, Yasuo; and Matsumura, Toshiji,3,440,688.

Matsumura, Yoichi; Ogawa, Mitsuo; and Toda, Mitsuhiro, to Matsushita Electric Industrial Co., Ltd. Apparatus for determining time and order of arrival. 3,434,712, 3-25-69, Cl. 272-4.

Matsunaga, Yoshio, to American Cyanamid Company. Method of preparing organic semiconducting materials. 3,439,006, 4-15-69, Cl. 260-396.

Matsunaga, Yoshio, to American Cyanamid Company. Electroconductive coated paper and method for preparing same. 3,440,090, 4-22-69, Cl. 117-201.

Matsuno, Jinichi: *See*—
Inoue, Morio; Kano, Gota; Matsuno, Jinichi; and Takayanagi, Shigetoshi,3,480,475.

Matsuno, Shiro, to Yuasa Battery Company Limited. Fuel cells. 3,442,714, 5-6-69, Cl. 136-86.

Matsuo, Ichiro; and Ohki, Sadao, to Chugai Seiyaku Kabushiki Kaisha. Novel quinolizidine derivatives or salts thereof and process for preparing the same. 3,429,884, 2-25-69, Cl. 260-293.

Matsuo, Ryota; and Tanabe, Shido, to Esso Research and Engineering Company. Process and apparatus for the formation of film. 3,450,806, 6-17-69, Cl. 264-89.

Matsuo, Shigetomo; Matsuki, Yosiaki; and Kometya, Katsutoshi, to Tokyo Shibaura Electric Co., Ltd. Method for the manufacture of alumina refractories having an aluminum nitride coating. 3,427,373, 2-11-69, Cl. 264-60.

Matsuo, Shigetomo; Matsuki, Yosiaki; and Komeya, Katsutoshi, to Tokyo Shibaura Electric Co., Ltd. Method of preparing sintered masses of aluminum nitride. 3,436,179, 4-1-69, Cl. 23-192.

Matsuo, Shyoji: *See*—
Sugahara, Yujiro; Yamada, Taketoshi; Noshi, Yoshibumi; and Matsuo, Shyoji,3,461,081.

Matsuo, Tetsuo: *See*—
Oshima, Akio; Sakurai, Shinichi; and Matsuo, Tetsuo,3,461,179.

Matsuo, Yoshiharu: *See*—
Kusuda, Fuyuki; Murayama, Masao; Matsuo, Yoshiharu; Okumura, Hideo; and Tatewaki, Nobukiyo,3,442,892.

Matsuo, Yutaka: *See*—
Yokota, Ryosuke; Fuwa, Shigehiko; Kawashima, Shinichi; and Matsuo, Yutaka,3,456,641.

Matsuoka, James T., to Intercole Automation, Inc., mesne. Rubber mill. 3,480,992, 12-2-69, Cl. 18-2.

Matsuoka, James T., to Intercole Automation, Inc. Extruder. 3,483,595, 12-16-69, Cl. 18-2.

Matsuoka, Kenichiro: *See*—
Nakashima, Hirotaka; Maeda, Katsunosuke; Fukunaga, Togo; Suzuki, Satoru; and Matsuoka, Kenichiro,3,468,121.

Matsuoka, Kyoichiro; and Shinada, Wataru, to Yawata Iron & Steel Co., Ltd. Direct heat-treating apparatus for hot-rolled wire rods. 3,454,268, 7-8-69, Cl. 266-3.

Matsuoka, Norimichi: *See*—
Suzuki, Saburo; Kurata, Masaya; Akiyoshi, Akikazu; Aoshima, Shozo; Dan, Hirohiko; and Matsuoka, Norimichi,3,484,472.

Matsuoka, Nozomu; and Sugimoto, Mitsuo. Ferromagnetic tuner. 3,430,175, 2-25-69, Cl. 336-155.

Matsuoka, Shigeru; Fujisawa, Kiyoshi; Masai, Shohachi; and Asami, Atsumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Method of and apparatus for doffing yarns in the centrifugal pot spinning process. 3,475,891, 11-4-69, Cl. 57-34.

Matsuoka, Shuro, to Mitsubishi Jukogyo Kabushiki Kaisha. Conductor roll and method of making the same. 3,451,903, 6-24-69, Cl. 204-25.

Matsuragawa Electric Company, Ltd.: *See*—
Watanabe, Yoshiyuki; and Kinoshita, Koichi, 3,457,070.

Matsushi Electric Industrial Co., Ltd.: *See*—
Yamashita, Akio; and Tanaka, Masaru, 3,444,444.

Matsushima, Isao, to Nippon Toki Kabushiki Kaisha. Automatic preforming device for continuous pottery forming machine. 3,426,402, 2-11-69, Cl. 25-22.

Matsushima, Isao, to Nippon Toki Kabushiki Kaisha. Continuous pottery forming machine of tablewares. 3,462,810, 8-26-69, Cl. 25-2.

Matsushima, Mitsuo; Akino, Tadaharu; and Kato, Shigeru, to TDK Electronics Company Limited. Impedance transformer for VHF bands. 3,449,704, 6-10-69, Cl. 336-175.

Matsushima, Mitsuo; and Ogawa, Shigeaki, to Tokyo Denki Kagaku Kogyo Kabushiki Kaisha. Compact capacitive-inductive impedance unit. 3,457,527, 7-22-69, Cl. 333-79.

Matsushita, Akira, to Toko Kabushiki Kaisha. Magnetic thin film wire with multiple laminated film coating. 3,451,793, 6-24-69, Cl. 29-194.

Matsushita, Akira; Sakuma, Takashi; and Sekiya, Mitsuo, to Toko Kabushiki Kaisha. Magnetic memory devices. 3,441,916, 4-29-69, Cl. 340-174.

Matsushita, Akira: *See*—
Maeda, Hisao; and Matsushita, Akira,3,425,042.
Maeda, Hisao; and Matsushita, Akira,3,449,732.

Matsushita Denko Kabushiki Kaisha: *See*—
Maruyama, Kunimori, 3,456,528.
Morita, Hiroshi; Fuse, Motoyosi; Iwasaki, Sadaya; Yamagishi, Hisato; Kawaguchi, Syojiro; and Tanigawa, Koichiro, 3,476,976.
Suzuki, Yasuo; and Kameyama, Yasuyoshi, 3,454,801.
Yamada, Kiyoshi; Takeuchi, Rikio; Morimoto, Ikuhisa; and Asano, Tatsuro, 3,469,051.

Matsushita Electric Industrial Co., Ltd.: *See*—
Amano, Yasuji; Kumano, Hiroshi; and Nishino, Atsushi, 3,464,902.
Aoki, Setsuo; Shono, Setsuo; Ito, Ryoji; Arao, Yuzuru; and Hukunaga, Masao, 3,458,175.
Ayukawa, Yukitada; and Kozu, Isao, 3,469,800.
Egawa, Susumu, 3,454,807.
Egawa, Susumu, 3,461,341.
Filson, John Richard, 3,439,859.
Fukuda, Ayao, 3,485,499.
Fukuda, Masataro; Hirai, Taketsugu; Hino, Takashi; Shiramoto, Tomizo; Sawada, Isoo; and Yanagihara, Nobuyuki, 3,443,999.
Hagihara, Masaaki; and Takimoto, Shigeru, 3,454,840.
Hamatani, Masaru; and Kawauchi, Kanau, 3,457,908.
Hasegawa, Takeshi; and Shindo, Yasuhiro, 3,475,211.
Hatazaki, Yasuzo; and Yokogawa, Seiji, 3,423,002.
Hayakawa, Shigeru; Ouchi, Hiromu; and Nagase, Kaneomi, 3,449,253.
Hayashi, Yoshiki; and Oido, Hikofumi, 3,438,773.
Hirota, Hozumi, 3,433,630.
Hori, Takeo, 3,486,540.
Hosono, Hiroo; and Nagahiro, Michinori, 3,480,230.
Inami, Akira; Morimoto, Kazuhisa; and Murakami, Yoshinobu, 3,421,891.
Inami, Akira; Morimoto, Kazuhisa; and Ishida, Eisuke, 3,464,819.
Ito, Reijiro, 3,425,011.
Iwahara, Katsutoshi, 3,484,707.
Izumi, Hiroshi; Katahira, Toshiaki; and Furuhashi, Michio, 3,472,950.
Kajitani, Masahiko, 3,476,884.
Kaname, Yuichi; Nagata, Takashi; Ishibashi, Michio; and Tsujimoto, Hiroshi, 3,433,982.
Katagiri, Hiroshi; and Konno, Tsuyoshi, 3,439,220.
Kobayashi, Tsuneo; Tatematsu, Kenzo; Yoshimura, Koichi; and Yamamoto, Yoshio, 3,458,892.
Kohashi, Tadao, 3,430,051.
Kohashi, Tadao; Nakamura, Tadao; and Nakamura, Kunio, 3,446,963.
Kohashi, Tadao, 3,458,700.
Kohashi, Tadao, 3,465,202.
Matsumura, Yoichi; Ogawa, Mitsuo; and Toda, Mitsuhiro, 3,434,712.
Mikoda, Masanari; Hikino, Tadashi; and Kuroda, Takayuki, 3,421,916.
Minami, Shinichi; and Ogawa, Jun, 3,454,473.
Morimoto, Toshio; and Fukunaga, Yoshiaki, 3,472,464.
Nagano, Toshihiko; and Nakagawa, Takamichi, 3,484,112.
Nishimoto, Kazuyuki; and Iida, Yoshio, 3,433,749.
Nishimoto, Kazuyuki; and Iida, Yoshio, 3,451,830.
Nozaki, Toshio; Mori, Kunihito; Ushirokajitani, Yoshiyuki; and Okamoto, Kenya, 3,485,370.
Ohoshima, Nobumasa; and Sugi, Eiichi, 3,445,163.
Ohoshima, Nobumasa; and Sugi, Eiichi, 3,446,550.
Omura, Masuo; Orita, Takao; and Kosaka, Masahiro, 3,461,217.
Ouchi, Hiromu; and Nishida, Masamitsu, 3,425,944.
Ouchi, Horomu; and Nishida, Masamitsu, 3,424,686.
Saito, Hisashi, 3,478,169.
Sasaki, Reiichi; and Furuhashi, Michio, 3,469,214.
Sato, Hosei, 3,426,671.
Sezaki, Nobuhiko; Katagiri, Hiroshi; and Kaneko, Toyohisa, 3,439,213.
Shinagawa, Mutsuaki; and Nezu, Hiroyuki, 3,458,412.
Someda, Sadamichi, 3,437,946.
Sugaya, Hiroshi, 3,440,360.
Suoka, Shine; and Oyama, Tomio, 3,435,135.
Takezaki, Tsuneo; Kuroda, Ekiji; and Fukui, Kiyotake, 3,447,087.
Tanaka, Masaru; and Yamashita, Akio, 3,465,176.
Tanigawa, Shizuhiko; Yabuno, Yoshio; Nakamura, Koji; Makamura, Takuji; and Fujimori, Nobuyoshi, 3,422,230.
Tashima, Kanichi, 3,458,820.

Tatsuzawa, Yoshinobu; Uchida, Kosaku; and Mayumi, Kazuaki, 3,467,876.
Tonari, Hirohiko; and Hashima, Akio, 3,453,896.
Toyooka, Tadao; Ota, Shigekazu; and Nishida, Takeo, 3,425,020.
Watanabe, Akio, 3,471,339.
Watanabe, Jun; Hosoi Susumu; Izawa, Hiroaki; Sawai, Tadashi; and Kawakami, Koichiro, 3,428,494.
Yamamoto, Kozo, 3,462,057.
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa, 3,440,105.
Yamashita, Akio, 3,437,891.
Yamashita, Akio; and Suzuki, Takashi, 3,447,989.
Yamashita, Akio; and Tanaka, Masaru, 3,448,350.
Yamashita, Akio; and Tanaka, Masaru, 3,461,356.
Yamashita, Akio; Tsuzaki, Takehiro; and Yamada, Tadashi, 3,471,323.
Yamashita, Tadaoki; Sakai, Kunio; Nada, Naohiro; and Kitamura, Saburo, 3,485,766.
Yamashita, Toshio; Yoshida, Manabu; and Tsukamoto, Hirokazu, 3,466,190.
Yanase, Akira; Tawara, Yoshio; Iga, Atsushi; and Hirota, Hozumi, 3,424,687.
Matsushita Electric Works Ltd.: *See*—
Sauer, Hans, 3,477,045.
Matsushita Electronics Corporation: *See*—
Fujimoto, Kazuo, 3,461,549.
Inoue, Morio; Kano, Gota; Matsuno, Jinichi; and Takayanagi, Shigetoshi, 3,480,475.
Kobayashi, Yoshichika; Masuda, Mutsuo; Mizuno, Hideo; and Murayama, Setsuko, 3,457,184.
Kobayashi, Yoshichika; Masuda, Mutsuo; and Murayama, Setsuko, 3,458,450.
Kobayashi, Yoshichika; Masuda, Mutsuo; Murayama, Setuko; and Mizuno, Hideo, 3,458,451.
Kobayashi, Yoshichika; Yakeno, Koji; and Takagawa, Masanori, 3,461,077.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi, 3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi, 3,427,492.
Mizuno, Hideo, 3,468,810.
Nakamichi, Haruki, 3,485,407.
Okumura, Tomisaburo, 3,422,528.
Okumura, Tomisaburo, 3,453,506.
Sakai, Yuji; and Nakayama, Ryoichi, 3,433,896.
Shoda, Koichiro, 3,436,282.
Takada, Shunsuke, 3,486,083.
Wakai, Shuzo; and Kobayashi, Takeji, 3,483,919.
Yokozawa, Masumi; and Inoue, Morio, 3,485,731.
Yoshioka, Satoshi; and Takayanagi, Shigetoshi, 3,442,700.
Matsushita, Hideo. Phonograph pickup arm. 3,430,965, 3-4-69, Cl. 274-23.
Matsushita, Kunijiro, to Kumagai Gumi Company Limited. Excavation type shield with no rotary cutters. 3,468,133, 9-23-69, Cl. 61-85.
Matsushita, Kunijiro, to Kumagai Gumi Company Limited. Excavation type shield with concentric rotary cutter barrels. 3,480,327, 11-25-69, Cl. 299-33.
Matsuura, Kazuo; and Tsuruta, Teiji, to Nippon Oil Company, Limited. Production of polyether ester copolymers of tetrahydrofuran and cyclic acid anhydride. 3,464,958, 9-2-69, Cl. 260-78.4
Matsuura, Masahiko: *See*—
Kawamori, Yoshiaki; Matsuura, Masahiko; Saito, Takeshi; and Miyamura, Yoshinobu,3,458,401.
Matsuura, Yoshihisa: *See*—
Kuroyanagi, Noriyoshi; and Matsuura, Yoshihisa,3,480,734.
Matsuya, Koichi: *See*—
Gehring, Albert; Schneller, Heinz; Fueg, Heinz; Haberthur, Kurt; and Matsuya, Koichi,3,484,214.
Matsuyama, George: *See*—
Adams, Clarence W.; and Matsuyama, George,3,449,231.
Matsuyama, Katsumi: *See*—
Kakegawa, Sadao; Matsuyama, Katsumi; and Naganuma, Yoshinori,3,424,689.
Matsuyama, Kihachiro: *See*—
Takayanagi, Kenjiro; and Matsuyama, Kihachiro,3,454,808.
Matsuyama, Shin: *See*—
Tajima, Sakae; Baba, Nobuyoshi; Matsuyama, Shin; and Ono, Masabumi,3,445,349.
Matsuzaka, Tanechiyo: *See*—
Inoue, Mitsuo; and Matsuzaka, Tanechiyo,3,472,168.
Matsuzaki, Etsuko: *See*—
Ueno, Akira; Matsuzaki, Etsuko; Momoki, Yoshio,; Ishimaru, Yoshino,; Saito, Gosaku,; and Sakai, Sumio,,3,420,859.
Matsuzaki, Hiroyuki; Shimizu, Shokichi; and Mizuo, Masahiko, to Fujitsu Limited. Adhesive material and method of using same to adhere ceramic material to metal. 3,445,210, 5-20-69, Cl. 65-43.
Matsuzaki, Teizo, to Asahi Glass Co., Ltd. Method of and apparatus for automatically conveying a glass sheet and taking off the cracked-off glass plates. 3,485,425, 12-23-69, Cl. 225-2.
Matsuzaki, Teizo; Minami, Kuniyuki; and Sasagawa, Yoshiaki, to Asahi Glass Co., Ltd. Apparatus for automatically cutting a glass sheet. 3,439,849, 4-22-69, Cl. 225-96.5
Matsuzawa, Hiroto: *See*—
Washizawa, Yoshikazu; and Matsuzawa, Hiroto,3,464,510.
Matsuzawa, Masanao; Imahashi, Issei; and Nakamura, Koichi, to Kabushiki Kaisha Suwa Seikosha. Oscillatory electromechanical converter. 3,435,311, 3-25-69, Cl. 318-129.
Matsuzawa, Tadahiro: *See*—
Kaneko, Kyozo; Matsuzawa, Tadahiro; Okouchi, Hideo; Nishimura, Tadao; and Yamamoto, Yukimasa,3,466,338.
Matt, Albert R., Jr.; and Steinert, Richard M., to Rowland Products, Incorporated. Immobilization shield. 3,476,107, 11-4-69, Cl. 128-133.
Mattei, Frank V.: *See*—
Tesoro, Giuliana C.; and Mattei, Frank V.,3,441,954.
Mattel, Inc.: *See*—
Adler, Seymour, 3,445,917.
Adler, Seymour, 3,475,853.
Adler, Symour, 3,464,083.
Agrista, Dominic S.; and Anastasia, Anthony S., 3,476,377.
Baynes, William R.; Marason, Gabriel, Jr.; and Barcus, Jack L., 3,484,828.
Cowell, Robert L.; and May, Richard L., 3,475,856.
Crosman, Dorland L.; See, Thomas E.; and Villasana, Armando P., 3,459,294.
Danielsen, Berne E.; Dowsing, Reginald M.; Kennedy, Melvin R.; and Ryan, John W., 3,482,842.
Douglas, Raymond J.; Handler, Elliott; Iwasaki, Cedric E.; Kossoff, Joseph; and Ryan, John W., 3,475,857.
Fernandez, Helene E., 3,445,114.
Gardel, Robert; and Gorsky, Egon, 3,456,384.
La Branche, Harvey W.; and Newman, Howard F., 3,483,654.
La Branche, Harvey W.; and Newman, Howard F., 3,484,986.
May, Richard L., 3,462,875.
Ryan, John W.; Chang, Richard Shih-Teng; and Rosen, Robert, 3,420,530.
Ryan, John W.; and May, Richard L., 3,421,254.
Ryan, John W.; and Lemkin, Jack Lewis, 3,425,155.
Ryan, John W.; and Baginski, Albert, 3,439,448.
Ryan, John W., 3,439,571.
Ryan, John W.; and May, Richard L., 3,440,714.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L., 3,445,955.
Ryan, John W., 3,445,960.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L., 3,448,540.
Ryan, John W.; and Chang, Richard Shih-Teng, 3,450,239.
Ryan, John W.; Kossoff, Joseph; and Hartman, Jack E., 3,451,160.
Ryan, John W.; and Safianoff, Albert, 3,454,344.
Ryan, John W.; Frederick, Phyllis; Golden, Michael E.; and Zimmerman, Charles R., 3,456,944.
Ryan, John W.; Chang, Richard Shin-Teng; and Rosen, Robert, 3,464,152.
Ryan, John W.; MacMeekin, Robert A.; and Meggs, Daniel Henry, 3,475,854.
Ryan, John W.; Echterling, Eugene J.; Golden, Michael E.; Goetz, John H.; and Chang, Richard Shih-Teng, 3,477,140.
Sioles, George W.; Murtaugh, Thomas D.; and Ryan, John W., 3,484,799.
Matteman, Joseph L.: *See*—
Spruyt, Adriaan; Matteman, Joseph L.; and Bottinga, Harmen,3,485,362.
Matteo, Carmen G.Electrician's tool for securing grounding clips. 3,453,713, 7-8-69, Cl. 29-203.
Mattern, Edward E.: *See*—
Kane, John L.; Mattern, Edward E.; and Funk, Edwin C.,3,452,400.
Mattern, Frank C., Jr.: *See*—
Stanton, Leo F.; Ripley, Donald E.; and Mattern, Frank C., Jr.,3,441,966.
Mattern, Harvey: *See*—
Ely, Robert G., 3,456,810.
Mattern, John, to United States of America, Army. Balanced square-law microwave mixer. 3,479,601, 11-18-69, Cl. 325-449.
Mattern, Paul D., to M.S.V., Inc. Dental matrix clamp. 3,423,835, 1-28-69, Cl. 32-63.
Mattes, Lee H., to Mastic Corporation. Building siding unit. 3,485,004, 12-23-69, Cl. 52-520.
Mattes, William J.; and Skora, Robert F., to Kimberly-Clark Corporation. Device for applying lubricant to tampons. 3,456,851, 7-22-69, Cl. 222-205.

Matteson, Donald W., to Davis, Clement, & Matteson, Donald W. Combination clock and tape player. 3,420,051, 1-7-69, Cl. 58-14.
Mattey, Robert A., to United States of America, Navy. Ball release mechanism. 3,433,436, 3-18-69, Cl. 244-1.
Matth. Hohner AG.: *See—*
Bierl, Richard; and Zacharias, Ernst, 3,423,514.
Matthaei, George L., to United States of America, Army, mesne. Multiplexer channel units. 3,428,918, 2-18-69, Cl. 333-6.
Matthaei, George L., to United States of America, Army. Mode trap band-pass filters. 3,428,922, 2-18-69, Cl. 333-73.
Mattheis, Harley H., to Container Corporation of America. Tape dispenser. 3,484,030, 12-16-69, Cl. 225-65.
Matthew Harvey & Company Limited: *See—*
Jeffries, Philip Waterman, 3,453,013.
Matthews, Benjamin H., to Lucerne Products, Inc. Variable speed wiper-type control switch. 3,456,229, 7-15-69, Cl. 338-198.
Matthews, Benjamin H., to Lucerne Products, Inc. Reversing switch. 3,467,801, 9-16-69, Cl. 200-157.
Matthews, Benjamin H.; and Rhine, Jules W., to Lucerne Products, Inc. Electrical switch apparatus. 3,456,230, 7-15-69, Cl. 338-200.
Matthews, Benjamin William, to Lucas, Joseph (Industries) Limited. Connectors for use with flexible printed circuits. 3,436,715, 4-1-69, Cl. 339-17.
Matthews, Benjamin William, to Lucas, Joseph, (Industries) Limited. Means for making an electrical connection between an electrical component and a printed circuit. 3,444,502, 5-13-69, Cl. 339-17.
Matthews, Benjamin William, to Lucas, Joseph, (Industries) Limited. Connectors for use with flexible printed circuits. 3,486,159, 12-23-69, Cl. 339-17.
Matthews, Charles S.; Van Meurs, Pieter; and Volek, Charles W., to Shell Oil Company. Process for horizontally fracturing subterranean earth formations. 3,455,391, 7-15-69, Cl. 166-303.
Matthews, Chester J.: *See—*
Foist, Joseph E.; and Matthews, Chester J.,3,473,425.
Matthews, Clay. Automatic spray oiler. 3,486,581, 12-30-69, Cl. 184-3.
Matthews, Clifford N.: *See—*
Birum, Gail H.; and Matthews, Clifford N.,3,426,073.
Birum, Gail H.; and Matthews, Clifford N.,3,445,570.
Driscoll, John S.; and Matthews, Clifford N.,3,437,473.
Harris, John E.; and Matthews, Clifford N.,3,428,613.
Matthews, Clifford N.; and Birum, Gail H., to Monsanto Company. Mesomeric triphosphonium dication salts. 3,426,074, 2-4-69, Cl. 260-606.5
Matthews, Clifford N.; and Birum, Gail H., to Monsanto Company. Triorganophosphoranylideneketenes. 3,459,804, 8-5-69, Cl. 260-585.5
Matthews, Demetreos N.: *See—*
Garner, Harold K.; and Matthews, Demetreos N.,3,441,546.
Matthews, Demetreos N., to Uniroyal, Inc. Method of copolymerizing ethylene and propylene. 3,462,399, 8-19-69, Cl. 260-80.78
Matthews, Edward, to Fruehauf Corporation. Retarding pulley assembly for gravity conveyor. 3,458,027, 7-29-69, Cl. 198-127.
Matthews, Gerald G. Golf ball putting game. 3,424,463, 1-28-69, Cl. 273-176.
Matthews, Henry G., Jr., to Burroughs Corporation. Majority logic multiplier circuit. 3,469,086, 9-23-69, Cl. 235-164.
Matthews, Herbert L. Nail. 3,483,790, 12-16-69, Cl. 85-28.
Matthews, Hugh B., to Sperry Rand Corporation. Power transmission hot gas engine with ablative lubricant means. 3,423,929, 1-28-69, Cl. 60-39.02
Matthews, James J. Apparatus for removing insulation. 3,433,106, 3-18-69, Cl. 81-9.5
Matthews, Jas. H., & Co.: *See—*
Gordon, Robert G.; and Tweddell, James C., 3,434,235.
King, William R., 3,467,010.
Matthews, John C.; and Wood, Louis L., to Grace, W. R., & Co. Process for preparing acetylacetonates. 3,474,464, 10-21-69, Cl. 260-429.
Matthews, John Horton, to Multifastener Corporation. Level control system for gravity conveyor. 3,430,808, 3-4-69, Cl. 221-10.
Matthews, John Robert; and David, Melvin J. Cervical traction orthodontic brace. 3,458,934, 8-5-69, Cl. 32-14.
Matthews, John T., to Automatic Electric Laboratories, Inc. Apartment telephone-intercom and door release system. 3,484,561, 12-16-69, Cl. 179-39.
Matthews, Kenneth Vincent: *See—*
Sundstrom, Karl Erik; Matthews, Kenneth Vincent; and Kaye, Wilbur Irving,3,459,479.
Matthews, Kenneth V., to Beckman Instruments, Inc. Tracking accuracy control for analyzers. 3,486,823, 12-30-69, Cl. 356-89.
Matthews, Ralph W.: *See—*
Callegari, William A.; Matthews, Ralph W.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,465,851.
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.
Matthews, Richard Ohn Strachan: *See—*
Gintz, Francis Paul; Matthews, Richard Ohn Strachan; and Peirce, Goderey Malcolm,3,444,152.
Matthews, Robert C., to Sperry Rand Corporation. Memory selection system. 3,484,767, 12-16-69, Cl. 340-174.
Matthews, Robert E.: *See—*
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,425,199.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,425,200.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,440,808.
Freedlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,485,022.
Freelander, Abraham L.; Matthews, Robert E.; and Garrett Wayne C.,3,444,675.
Freldlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C.,3,449,894.
Matthews, Robert J. Method of dispensing milk filter disks and apparatus therefor. 3,446,543, 5-27-69, Cl. 312-42.
Matthews, Robert P.; Simmons, Gustavus J.; and Wymer, Fred J., to United States of America, Atomic Energy Commission, mesne. Pulse recording means. 3,480,921, 11-25-69, Cl. 340-174.
Matthews, Robert R.: *See—*
Felsenthal, Martin; Ferrell, Howard H.; and Matthews, Robert R.,3,480,081.
Matthews, Roy B.; and Henderson, Joseph G., to United States of America, Air Force. Missile velocity and lift-off trajectory measuring system. 3,452,200, 6-24-69, Cl. 250-83.3
Matthews, Rudolph; Blakewell, Roland F.; and Simpson, Frank E., to Atlas-Pacific Engineering Company. Machine for feeding apricots one at a time single file from a bulk supply. 3,439,791, 4-22-69, Cl. 198-33.
Matthews, Russel B., to Penn Controls, Inc. Fuel burner control utilizing thermocouple triggered silicon controlled rectifier. 3,445,174, 5-20-69, Cl. 431-59.
Matthews, Russell B., to Penn Controls, Inc. Fuel burner control utilizing silicon controlled rectifier. 3,462,233, 8-19-69, Cl. 431-25.
Matthews, Sarazon P. Apparatus for maintaining an elevation. 3,462,845, 8-26-69, Cl. 33-46.
Matthews, Stanton L.: *See—*
Martinsen, Lyle J.; and Matthews, Stanton L.,3,463,255.
Matthews, Theodore L. Combined mower and vacuum device. 3,430,421, 3-4-69, Cl. 56-23.
Matthews, Walter T., to Duplex, Inc. Retractor device with compensating brake. 3,480,227, 11-25-69, Cl. 242-107.83
Matthews, William Edgar: *See—*
Ennis, Brian Colwell; and Matthews, William Edgar,3,426,026.
Matthews, William R., to Microlite Corporation, The. Boat construction. 3,439,366, 4-22-69, Cl. 9-6.
Matthews, William R., to Mobil Oil Corporation. Mudline suspension system. 3,459,259, 8-5-69, Cl. 166-0.5
Matthews, William R., to Microlite Corporation, The. Boat with flotation sponsons. 3,485,198, 12-23-69, Cl. 114-123.
Matthey Bishop, Inc.: *See—*
Steele, Raymond, 3,470,019.
Matthias, George D.: *See—*
Hohmann, Frank G.; Matthias, George D.; Tino, Joseph R.; and Wellmann, Gerhard F.,3,461,491.
Matthias, Heinz-Bernd: *See—*
Strscheletzly, Michael; and Matthias, Heinz-Bernd,3,421,446.
Matthies, Alan A., to Controls Company of America. Expansion valve and heat pump system. 3,464,227, 9-2-69, Cl. 62-225.
Matthies, Alan A., to Controls Company of America. Thermistor controlled refrigeration expansion valve. 3,478,534, 11-18-69, Cl. 62-225.
Matthies, Hans-Georg: *See—*
Maahs, Paul; Matthies, Hans-Georg; and Wenger, Friedrich,3,477,094.
Matthiessen & Hegeler Zinc Company: *See—*
Handwerk, Erwin C., 3,437,331.
Matthison, Arnold V.: *See—*
Jones, Richard F.; and Matthison, Arnold V.,3,463,051.
Matthysse, Irving F., to Burndy Corporation. Connector formed of insulated wire. 3,427,397, 2-11-69, Cl. 174-87.
Matthysse, Irving F.; Raila, Edward S.; Osborn, William G.; and Brautigam, John J., to Burndy Corporation. Omnidirectional expansion connector. 3,427,549, 2-11-69, Cl. 339-1.
Mattia, Manlio M., to Day & Zimmermann, Inc. Process for removing organic contaminants from air. 3,455,089, 7-15-69, Cl. 55-62.
Mattia, Manlio M.; and Weiss, Bernard M., to Day & Zimmermann, Inc. Process for concentrating organic material from an aqueous stream. 3,448,042, 6-3-69, Cl. 210-26.
Mattia, Michael, to Budd Company, The. Apparatus for producing tubing by electroforming. 3,457,157, 7-22-69, Cl. 204-208.
Mattick, Ralph, to General Metal Products Company. Corner construction for knock-down tables. 3,420,484, 1-7-69, Cl. 248-188.
Mattie, Eugene A. Muffler having two parallel bores with slotted baffles. 3,478,842, 11-18-69, Cl. 181-56.

Mattimoe, Paul T.; and Conner, Harry E., to Libbey-Owens-Ford Glass Company. Apparatus for shaping a thermoplastic sheet for use in a curved laminated glass unit. 3,429,006, 2-25-69, Cl. 18-19.
Mattimoe, Paul T.; and Elton, William L., to Libbey-Owens-Ford Company. Laminated glazing unit and method for producing same. 3,468,749, 9-23-69, Cl. 161-165.
Mattingly, Denis Albert Edward, to Klinger Manufacturing Company, Limited, The. Method and apparatus for crimping yarn. 3,425,106, 2-4-69, Cl. 28-1.
Mattingly, Denis Albert Edward; and Gilchrist, Reginald S., said Mattingly assor. to Klinger Manufacturing Company, Limited, The. Method and apparatus for false twisting of yarn. 3,486,320, 12-30-69, Cl. 57-35.
Mattingly, Don R., to Arnold, Dean. Aircraft engine preheater. 3,454,266, 7-8-69, Cl. 263-19.
Mattingly, John W.: *See*—
Deines, Siegmund; Jeffers, Homer A., Jr.; Monroe, Wayne W.; and Mattingly, John W.,3,484,885.
Mattingly, John W., to Aqua Tec Corporation. Liquid pump for oral hygiene apparatus and the like. 3,453,969, 7-8-69, Cl. 103-203.
Mattingly, John W., to Aqua Tec Corporation, mesne. Oral hygiene apparatus of the water jet type. 3,467,083, 9-16-69, Cl. 128-66.
Mattingly, Ronald R., to Hennessy Products, Inc. Locomotive traction motor support bearing lubricator. 3,473,630, 10-21-69, Cl. 184-101.
Mattinson, Thomas. Butter spreader. 3,449,829, 6-17-69, Cl. 30-124.
Mattioli, Harold P., to Emhart Corporation. Hollow rivet and pull-stem assembly for blind fastening or the like. 3,438,301, 4-15-69, Cl. 85-70.
Mattka, Gunter. Sheet folding machine. 3,475,018, 10-28-69, Cl. 270-67.
Mattke, Charles F.: *See*—
Kreisel, Ralph R.; Mattke, Charles F.; and Prescott, Robert E.,3,457,376.
Mattly, Chris. Sun protection device for vehicles. 3,476,032, 11-4-69, Cl. 98-2.
Matton, Harry E. Transparent filing envelope with index. 3,459,361, 8-5-69, Cl. 229-56.
Mattos Const. Co., Inc.: *See*—
Mattos, Donald Joseph, 3,421,476.
Mattos, Donald Joseph, to Mattos Const. Co., Inc. Apparatus for applying materials to localized areas of a roadway surface. 3.421,476, 1-14-69, Cl. 118-8.
Mattox, William Judson: *See*—
Ellert, Henry George; and Mattox, William Judson,3,437,587.
Mattox, William Judson, to Esso Research and Engineering Company. Stabilized oil. 3,425,814, 2-4-69, Cl. 44-63.
Mattox, William Judson; and Hamner, Glen Porter, to Esso Research and Engineering Company. Desulfurization process for heavy petroleum fractions. 3,449,242, 6-10-69, Cl. 208-227.
Mattson, Charles A., to Sunbeam Corporation. Lawn mower. 3,468,108, 9-23-69, Cl. 56-25.4
Mattson, Charles A.; and Romin, Alvin, Jr., to Sunbeam Corporation. Electric motor driven snow blower. 3,468,041, 9-23-69, Cl. 37-43.
Mattson, Clyde E.: *See*—
Zankl, Frank; Stobbe, Richard E.; and Mattson, Clyde E.,3,422,724.
Mattson, George W., to Ethyl Corporation. Method and apparatus for centrifugally plating. 3,464,846, 9-2-69, Cl. 117-107.1
Mattson, George W., to Ethyl Corporation. Method and apparatus for tunnel plating. 3,473,954, 10-21-69, Cl. 117-107.1
Mattson, Roger P. Self-evacuating fluid sampling device. 3,433,216, 3-18-69, Cl. 128-2.
Mattson, Terrance W.: *See*—
Lasaine, Alfred D.; Mattson, Terrance W.; Moore, Clifford William; and Otey, Glen R.,3,438,345.
Mattson, Theodore M. Collapsible decoy. 3,470,645, 10-7-69, Cl. 43-3.
Mattsson, Malte Kurt Einar, to Aktiebolaget Svenska Flaktfabriken. Method for increasing the permissible flow velocity of a liquid flowing on a metal surface. 3,431,927, 3-11-69, Cl. 137-1.
Mattsson, Mats E.: *See*—
Englund, Gosta R.; and Mattsson, Mats E.,3,420,438.
Matuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi, to Tokyo Shibaura Electric Co., Ltd. Rotatographic radiation apparatus having compensating grid plate. 3,486,022, 12-23-69, Cl. 250-53.
Matuhasi, Tyoku; and Kobayashi, Toshikazu, to Murex Welding Processes Limited. Method for detecting antigens. 3,457,344, 7-22-69, Cl. 424-12.
Matukas, Antanas G. Hand restraint. 3,476,108, 11-4-69, Cl. 128-133.
Matulich, Dan S.: *See*—
Kinsell, Robert C.; and Matulich, Dan S.,3,461,790.
Matulich, Dan S.; and Skinner, Harold S., to Garrett Corporation, The. Electro-pneumatically controlled air conditioning system. 3,465,962, 9-9-69, Cl. 236-12.
Matumaru, Haruo: *See*—
Douta, Kikuo; Matumaru, Haruo; and Nishimura, Takeo,3,430,334.
Matumoto, Tosiaki: *See*—
Tanaka, Shigefumi; Ishikawa, Jiro; Matumoto, Tosiaki; and Kovacs, Lajos J.,3,469,403.
Matunaga, Yasuhiko. Automatically operating laying nest box for poultry. 3,465,723, 9-9-69, Cl. 119-48.
Matushek, John W.: *See*—
Wille, Herbert S.; Branson, Theodore A.; and Matushek, John W.,3,437,055.
Matveev, Nickolai Ivanovich; and Lesnov, Nickolai Alexandrovich. Method of and apparatus for manufacturing hollow metal bodies provided with a polyhedral heal portion adapted to have a wrench or equivalent tool applied thereto. 3,456,479, 7-22-69, Cl. 72-353.
Matyas, Tibor; and Moorehead, John P., to Evans Products Company. Flat car bulkhead. 3,476,041, 11-4-69, Cl. 105-376.
Matyear, Charles, to Phillips Petroleum Company. Hydrocarbon process. 3,474,152, 10-21-69, Cl. 260-666.
Matz, Samuel A., to Borden Company, The. Refrigerated dough product. 3,438,791, 4-15-69, Cl. 99-192.
Matz, William H.: *See*—
Hiltgen, Aloysius X.; and Matz, William H.,3,454,502.
Matzelle, Arnold; and Hahn, Arthur Edward, Jr., to RCA Corporation. Three terminal semiconductor device for converting amplitude modulated signals into frequency modulated signals. 3,487,338, 12-30-69, Cl. 332-31.
Matzl, Manfred, to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. Tapped regulating transformer having thyristor transfer switch means. 3,437,913, 4-8-69, Cl. 323-43.5
Matzl, Manfred, to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. Logic-unit-controlled thyristor tap-changing transfer switch having trigger impulse amplifier. 3,466,530, 9-9-69, Cl. 323-43.5
Matzner, Edwin A., to Monsanto Company. Electrolytic processes for preparing halogenated organic compounds. 3,449,225, 6-10-69, Cl. 204-81.
Matzner, Edwin A., to Monsanto Company. Chlorocyanurate compositions. 3,456,054, 7-15-69, Cl. 424-245.
Matzner, Markus, to Union carbide Corporation. Norbornanediol condensation polymers. 3,449,298, 6-10-69, Cl. 260-47.
Matzner, Markus, to Union Carbide Corporation. Acetylenically unsaturated polymers. 3,484,411, 12-16-69, Cl. 260-75.
Matzner, Markus; and Conte, Louis B., Jr., to Union Carbide Corporation. Novel bisphenol polycarbonates. 3,437,637, 4-8-69, Cl. 260-47.
Matzner, Markus: *See*—
Sullivan, Robert C.; and Matzner, Markus,3,428,600.
Matzuk, Alexander: *See*—
Shen, Tsung-Ying; and Matzuk, Alexander,3,449,349.
Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr.,3,438,992.
Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr.,3,444,175.
Mau, Gunter: *See*—
Hornig, Lothar; and Mau, Gunter,3,462,501.
Hornig, Lothar; Grosspietsch, Horst; Mau, Gunter; and Hirsch, Lothar,3,462,502.
Mau, Gunther: *See*—
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese,3,439,044.
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese,3,470,230.
Hornig, Lothar; Hirsch, Lothar; and Mau, Gunther,3,454,661.
Hornig, Lothar; Mau, Gunther; and Hirsch, Lothar,3,475,505.
Mau, Gunther; and Horning, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of ethylene chlorohydrin. 3,426,085, 2-4-69, Cl. 260-634.
Mauch, Erwin W.: *See*—
Friedman, Samuel; Harris, Robert O.; Mauch, Erwin W.; Harris, James P.; and Manzo, Joseph F.,3,470,638.
Mauch, Hagen R.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,486,279.
Mauer, Charles K., to Murray Corporation. Testing device for hose clamps. 3,423,997, 1-28-69, Cl. 73-95.
Mauer, Kenneth H.: *See*—
Hansen, Charles C.; Mauer, Kenneth H.; and Kivioja, Olaf E.,3,449,923.
Mauer, Paul B.: *See*—
Carnall, Edward, Jr.; and Mauer, Paul B.,3,482,009.
Ammons, James William; Mauer, Paul Bernard; Reynolds, George A.; and Van Allan, James A.,3,462,706.
Mauger, Robert E.: *See*—
McGowan, Patrick G.; and Mauger, Robert E.,3,422,679.
Maughan, John C., Jr. Combination wrench and expansion stopper for pipelines. 3,485,118, 12-23-69, Cl. 81-125.

Mauguen, Pierre: *See—*
Martin, Jean Antoine; Mauguen, Pierre; and Pinault, Jacques,3,471,194.
Maui Pineapple Company, Ltd.: *See—*
Tsutsumi, Masato; and Wilmore, William W., 3,485,277.
Maul Bros., Inc.: *See—*
Bracken, Robert S., 3,479,173.
Dorsey, Francis E., 3,476,543.
Maul, John A.; and Nantz, Jack G., to Addressograph-Multigraph Corporation. Printing machine stroke control. 3,486,446, 12-30-69, Cl. 101-269.
Maul, John A.; and Zofchak, James T., to Addressograph-Multigraph Corporation. Data recorder with swingable bed. 3,420,171, 1-7-69, Cl. 101-269.
Maul, John A.: *See—*
Frampton, Charles J.; and Maul, John A.,3,446,144.
Maulbecker, Dieter Karl: *See—*
Hackstein, Karl-Gerhard; Pirk, Hans; and Maulbecker, Dieter Karl,3,477,830.
Mauldin, William E. Garment hanger. 3,425,604, 2-4-69, Cl. 223-88.
Mauller, Gustav A., Jr., to Controlled Air & Water Co., Inc. Humidifier. 3,450,124, 6-17-69, Cl. 126-113.
Maurel, Pierre: *See—*
Cohen, Joseph; Duhart, Pierre; and Maurel, Pierre,3,484,196.
Maurer, David P.: *See—*
Lichtenberger, Horst W.; and Maurer, David P.,3,421,336.
Maurer, Frederick: *See—*
Silbermann, Klaus; and Maurer, Frederick,3,474,210.
Maurer, Fritz, to Turbo-Separator A.G. Continuously operating screenless screw-type centrifuge. 3,424,375, 1-28-69, Cl. 233-20.
Maurer, Fritz; and Novet, Hanspeter, to Werkzeugmaschinenfabrik Oerlikon Buhrle & Co. Ammunition holder having compartments to receive a cartridge belt. 3,461,774, 8-19-69, Cl. 89-34.
Maurer, Georg: *See—*
Gutermann, Traugott; and Maurer, Georg,3,424,385.
Maurer, Hans A., to Raytheon Company. Microwave energy phase shifter wherein the output energy is polarized in the opposite sense from the input energy. 3,453,563, 7-1-69, Cl. 333-31.
Maurer, Hans W., to West Virginia Pulp and Paper Company. Continuous process for the simultaneous acid hydrolysis and oxidation of starch for use in coating compositions. 3,475,215, 10-28-69, Cl. 127-36.
Maurer, Hans W., to Westvaco Corporation. Continuous starch conversion. 3,485,667, 12-23-69, Cl. 127-28.
Maurer, Ing. A., S.A.: *See—*
Meister, Werner, 3,438,969.
Maurer, James I.; and Shah, Vinod D., to Hooker Chemical Corporation. Process of forming paint-base coatings on zinc and zinc alloy surfaces. 3,444,007, 5-13-69, Cl. 148-6.15
Maurer, John A., Jr., to J.M.D. Industries, Inc. Motion picture projector with automatic film threading and loop forming mechanism. 3,426,950, 2-11-69, Cl. 226-91.
Maurer, John A., Jr., to J.M.D. Industries, Inc. Motion picture projector with sound reproducing mechanism. 3,475,085, 10-28-69, Cl. 352-29.
Maurer, Kent M. Method and means for attitude control of space vehicles. 3,424,401, 1-28-69, Cl. 244-1.
Maurer, Klemens. Device for pneumatic or hydraulic readout and storage of information from perforated information carriers. 3,461,279, 8-12-69, Cl. 235-61.11
Maurer, Klemens, to Sunvic-Regler GmbH. Control device. 3,464,438, 9-2-69, Cl. 137-487.5
Maurer, Max L.: *See—*
Bidelman, Bruce B.; Maurer, Max L.; Lawler, Jack; and Millard, George R.,3,462,143.
Maurer, Michael D.: *See—*
Manjikian, Serop; and Maurer, Michael D.,3,485,374.
Maurer, Michael H.; and Benefield, Curt S., to Chemical Construction Corporation. Production of sulfuric acid. 3,475,120, 10-28-69, Cl. 23-168.
Maurer, Robert D.: *See—*
Borrelli, Nicholas F.; Herczog, Andrew; and Maurer, Robert D.,3,467,463.
Maurer, Roland: *See—*
Reh, Lothar; Maurer, Roland; Pierson, Walter; and Peinemann, Bodo,3,449,062.
Mauri, Marcello Massi: *See—*
Di Cio, Alessandro; and Mauri, Marcello Massi,3,450,776.
Maurice, Jean, to Societe Anonyme Francaise Du Ferodo. Hydraulic transmission systems. 3,422,940, 1-21-69, Cl. 192-3.33
Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Drum brakes with floating jaws. 3,425,521, 2-4-69, Cl. 188-79.5
Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Clutch and coupling with cooling device. 3,437,183, 4-8-69, Cl. 192-3.33
Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Transmission control especially for an automobile vehicle. 3,481,141, 12-2-69, Cl. 60-12.
Maurin, Jean D.: *See—*
Weisang, Edouard J.; and Maurin, Jean D.,3,467,580.
Maurin, Pierre: *See—*
Eppendahl, Pierre Charles; and Maurin, Pierre,3,478,983.
Maurmann, Siegfried; and Maurmann, Werner, to Engels, August, G.m.b.H. System for monitoring moving threads in textile machinery. 3,440,634, 4-22-69, Cl. 340-259.
Maurmann, Werner: *See—*
Maurmann, Siegfried; and Maurmann, Werner,3,440,634.
Mauro, Jean B.; and Hagan, Lamont, to National Distillers and Chemical Corporation. Method for coating polyolefin films and coated articles. 3,427,184, 2-11-69, Cl. 117-76.
Mauro, William B. Fluid responsive float in a tank. 3,483,342, 12-9-69, Cl. 200-84.
Maurs, Albert, to Compresseurs Bernard, Curie, Venissieux (Rhone). Regulation system fcr gas compressors. 3,463,383, 8-26-69, Cl. 230-10.
Maurya, Ramamurat R.; Harrington, Joseph, Jr.; and Squibb, Edward R., III, to Caterpillar Tractor Company, mesne. Friction welding. 3,478,410, 11-18-69, Cl. 29-470.3
Maurya, Ramamurat R.; and Kauzlarich, James J., to Caterpillar Tractor Company. Reciprocating friction bonding apparatus. 3,420,428, 1-7-69, Cl. 228-2.
Maus, Arthur E.: *See—*
Thoreson, Robert E.; and Maus, Arthur E.,3,425,365.
Maus, Eicke: *See—*
Planitzer, Erich; Maus, Eicke; Multerer, Albert; Schober, Erwin; and Schindler, Werner,3,446,112.
Maus, Hans R.: *See—*
Heimann, Walter; Maus, Hans R.; and Wolf, Erich A.,3,449,580.
Mausbeck, Hans: *See—*
Dreyer, Siegfried; Harde, Rudolf; Jansing, Walter; Kalkoffen, Friedel; Mausbeck, Hans; and Schnittker, Werner,3,438,431.
Mauser Kommandit-Gesellschaft: *See—*
Hammes, Wilhelm, 3,480,169.
Mausner, Marvin; Katstra, Richard D.; and Spiegelman, Gerald, to Witco Chemical Company, Inc. Toluene sulfonic acid compositions. 3,458,449, 7-29-69, Cl. 252-182.
Maust, Charles I. Relief valve with indicator. 3,462,994, 8-26-69, Cl. 72-4.
Mausteller, John W.: *See—*
McGoff, Miles J.; Mausteller, John W.; and Staub, Charles H.,3,443,906.
Mausteller, John W., to Mine Safety Appliances Company. Gas-generating device utilizing a chemical composition candle. 3,443,907, 5-13-69, Cl. 23-281.
Mausteller, John W.; Billetdeaux, Adrian C.; and Freilino, Ray S., to Mine Safety Appliances Company. Infrared detection of surface contamination. 3,471,698, 10-7-69, Cl. 250-83.3
Maute, Hans-Jurgen, to Telefunken Patentverwertungsgesellschaft m.b.H. Integrated Graetz rectifier circuit. 3,466,510, 9-9-69, Cl. 317-234.
Mauthe, Gerhard: *See—*
Floessel, Carl-Dieter; and Mauthe, Gerhard,3,440,379.
Floessel, Dieter; and Mauthe, Gerhard,3,424,884.
Mauvernay, Roland Yves. Pharmaceutical compositions containing phenyl ethyl piperazines. 3,448,192, 6-3-69, Cl. 424-250.
Mauvernay, Roland-Yves; and Busch, Norbert. Therapeutic compositions containing 3-[4-(4- fluoro-phenyl)-piperazinometh]-indole. 3,453,366, 7-1-69, Cl. 424-250.
Mauz & Pfeiffer G.m.b.H. & Co. KG: *See—*
Fillery, Gordon Thomas, 3,460,187.
Fillery, Gordon Thomas, 3,482,276.
Worwag, Eberhard, 3,448,485.
Mauz, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Stabilized polyolefins with (1) a thiobic compound and (2) an organic antimonyl compound. 3,459,705, 8-5-69, Cl. 260-45.75
Mauz, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyolefins stabilized by thioesters of antimonious acid. 3,466,261, 9-9-69, Cl. 260-45.75
Mauz, Otto; and Prinz, Eberhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Stabilized polyolefin composition. 3,455,875, 7-15-69, Cl. 260-45.85
Mauzey, Peter T.; Schlanger, Gabriel G.; Votaw, Clarence J.; and Zydney, Herbert M., to Bell Telephone Laboratories, Incorporated. Priority and regular message pickup from multistation line data station transmitters. 3,427,590, 2-11-69, Cl. 340-147.
Mauzey, Peter T.; Votaw, Clarence J.; and Zydney, Herbert M., to Bell Telephone Laboratories, Incorporated. Distribution of messages to data station receivers on multistation lines. 3,427,588, 2-11-69, Cl. 340-147.
Mavor & Coulson Limited: *See—*
Jackson, James S., 3,455,437.
Mavrodineanu, Radu: *See—*
Hughes, Ray C.; and Mavrodineanu, Radu,3,424,533.
Hughes, Ray C.; and Mavrodineanu, Radu,3,472,594.
Mawdsley's Limited:*See—*
Birnstingl, David Wildon, 3,471,775.
Mawney, Robert G.: *See—*
Ambler, Walter B.; and Mawney, Robert G.,3,431,526.

Max, Erhard; Kulcke, Werner W.; and Kosanke, Kurt M., to International Business Machines Corporation. Magneto-optic radiation control and modulator. 3,436,677, 4-1-69, Cl. 331-94.5
Max, Erhard; and Sincerbox, Glenn T., to International Business Machines Corporation. Apparatus for reading and printing stored information by light. 3,430,212, 2-25-69, Cl. 340-173.
Max, Erhard: *See*—
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard,3,435,447.
Duda, William L.; Fleisher, Harold; Kulcke, Werner W.; and Max, Erhard,3,466,433.
Fleisher, Harold; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,432,222.
Harris, Thomas J.; and Max, Erhard,3,432,221.
Harris, Thomas J.; and Max, Erhard,3,435,370.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,439,348.
Harris, Thomas J.; Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,469,206.
Kosanke, Kurt M.; Kulcke, Werner W.; and Max, Erhard,3,482,182.
Max Factor & Co.: *See*—
Hunter, William H.; and Kennedy, George J., 3,443,425.
Max, Solomon Mannes, to Adage, Incorporated. Feedback type analog to digital converter. 3,483,550, 12-9-69, Cl. 340-347.
Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.: *See*—
Bogner, Gunther; and Klipping, Gustav, 3,430,450.
Klipping, Gustav; Elsner, Albrecht; and Hildebrandt, Gerd, 3,442,091.
Klipping, Gustav; Moll, Justus; and Wiedemann, Werner, 3,461,678.
Stocklein, Franz, 3,474,247.
Maxam Switchgear Limited: *See*—
Nicholls, Wilfrid, 3,484,538.
Maxeiner, Gottfried: *See*—
Gottschald, Rudolf; and Maxeiner, Gottfried,3,439,946.
Maxey, Alexander R., to Fowler, Alan R., mesne. Tape transport apparatus with locking mechanism. 3,426,976, 2-11-69, Cl. 242-55.12
Maxfield, Bruce W.: *See*—
Houck, James R.; Bohm, Henry V.; and Maxfield, Bruce W.,3,460,063.
Maxfield, Perry L., to Phillips Petroleum Company. Nitrosyl nickel complexes for olefin dimerization. 3,427,365, 2-11-69, Cl. 260-683.15
Maxfield, Perry L., to Phillips Petroleum Company. Nickel compounds. 3,446,871, 5-27-69, Cl. 260-683.15
Maxfield, Perry L., to Phillips Petroleum Company. N-Allyldinitrosyliron complexes of germanium, tin and lead. 3,448,129, 6-3-69, Cl. 260-429.
Maxfield, Perry L., to Phillips Petroleum Company. Isomerization of cyclic olefinic hydrocarbons. 3,471,581, 10-7-69, Cl. 260-666.
Maxfield, Perry L., to Phillips Petroleum Company. Preparation of nitrosyliron halides. 3,473,898, 10-21-69, Cl. 23-356.
Maxfield, Perry L., to Phillips Petroleum Company. π-Allyl metal complexes. 3,475,471, 10-28-69, Cl. 260-429.
Maxfield, Perry L., to Phillips Petroleum Company. Preparation of cyclopentadienyl nickel catalysts. 3,476,769, 11-4-69, Cl. 260-332.5
Maxfield, Perry L., to Phillips Petroleum Company. Production of nitrosyl halides of iron, cobalt, and nickel. 3,481,710, 12-2-69, Cl. 23-356.
Maxfield, Robert E., to National Ideal Company, The. Brooding and growing cage. 3,478,721, 11-18-69, Cl. 119-18.
Maxham, Daniel W., to Uniroyal, Inc. Belt fabric. 3,446,252, 5-27-69, Cl. 139-420.
Maximuk, Adam J. Protective shield devices for tools and the like. 3,475,990, 11-4-69, Cl. 74-608.
Maximum Inc.: *See*—
White, Wilfrid Gordon, 3,473,233.
White, Wilfrid Gordon, 3,481,045.
Maxitrol Company: *See*—
Stang, Charles, Jr.; and McMann, Wilbur S., 3,486,693.
Maxjutenko, Ilya Nikolaevich: *See*—
Vinogradov, Alexandr Sergeevich; Kapustin, Jury Mikhailovich; Maxjutenko, Ilya Nikolaevich; Kiselnikov, Vladimir Nikolaevich; Borisov, Igor Sergeevich; and Mazalov, Ivan Mikhailovich,3,419,940.
Maxon, Glenway, Jr. Dump truck body. 3,424,498, 1-28-69, Cl. 298-7.
Maxon, Glenway, Jr. Drum for mixing concrete and the like. 3,429,561, 2-25-69, Cl. 259-175.
Maxson, Darwin B.; and Morrison, Delbert I., to Columware, Inc. powdered material dispenser. 3,458,089, 7-29-69, Cl. 222-231.
Maxson Electronics Corporation: *See*—
Arthur, Ronald H., 3,487,184.
Ehrenfels, Alfred L.; and Kahl, Paul C., 3,476,898.
Maxson, Orwin G.; and Sorenson, Wayne R, to Continental Oil Company. Oil soluble alkaryl sulfonate lithium and polyvalent metal salts in polyolefin fibers and films. 3,468,864, 9-23-69, Cl. 260-93.7
Maxwell, Carl R.; Miller, Robert H.; and Parks, John H., to Caterpillar Tractor Company. Engine governor responsive to speed and fuel pressure. 3,472,215, 10-14-69, Cl. 123-140.
Maxwell, David James, to Sperry Rand Limited, mesne. Device for measuring the magnitudes of unidirectional magnetic fields. 3,427,534, 2-11-69, Cl. 324-43.
Maxwell, Donald L., to General Mills, Inc. Method of preparing a ready-to-eat puffed product and apparatus. 3,454,403, 7-8-69, Cl. 99-81.
Maxwell, Douglas H., to United Aircraft Corporation. Coated nickel base engine alloys. 3,450,512, 6-17-69, Cl. 29-183.5
Maxwell, Douglas H.; and Suyama, Frank, to United Aircraft Corporation. Coated cobalt alloys. 3,462,820, 8-26-69, Cl. 29-197.
Maxwell, Emanuel, to Massachusetts Institute of Technology. Variable standard mutual inductance circuit with air core transformer and tap changing cascaded autotransformers. 3,445,753, 5-20-69, Cl. 323-43.5
Maxwell, Gary B.: *See*—
Boonan, Douglas D.; and Maxwell, Gary B.,3,431,054.
Maxwell, George C.: *See*—
Lickok, Daniel J.; and Maxwell, George C.,3,480,422.
Maxwell, Gilbert A. Resonant motor. 3,463,953, 8-26-69, Cl. 310-82.
Maxwell, Hugh S., to General Electric Company. Screw positioning drive for rolling mills. 3,486,393, 12-30-69, Cl. 74-424.8
Maxwell, John Murdock: *See*—
Geary, James Edward, Jr.; Harsch, William Edward; Maxwell, John Murdock; and Rego, Richard Donald,3,442,002.
Maxwell, Joseph L. Adjustable transducer mounting. 3,472,065, 10-14-69, Cl. 73-67.8
Maxwell, Myron Walter: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,437,959.
Maxwell, Oliver H. Harvester for nuts and the like. 3,440,809, 4-29-69, Cl. 56-329.
Maxwell, Richard D., to Amana Refrigeration, Inc. Combination freezer and refrigerator with fast freezing means. 3,466,891, 9-16-69, Cl. 62-419.
Maxwell, Richard F., Jr.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,444,380.
Maxwell, Vernon R. Slide type musical wind instrument. 3,426,639, 2-11-69, Cl. 84-330.
Maxwell, Victor W., to American Machine & Foundry Company. Method for protecting coated pipe. 3,459,619, 8-5-69, Cl. 156-293.
Maxwell, Wilber A. Apparatus for setting liners in boreholes of wells. 3,486,558, 12-30-69, Cl. 166-165.
May & Baker Limited: *See*—
Barber, Michael; Broad, David Rex; and Heywood, Basil Jason, 3,468,899.
Barber, Michael Stuart; Broad, David Rex; and Heywood, Basil Jason, 3,427,318.
Davis, Michael; Parnell, Edgar William; and Sharp, Brian William, 3,485,845.
May, Argil J., Manufacturing & Distribution Corp.: *See*—
Gausepohl, Frank W., 3,447,430.
May be granted to United States of America, Atomic Energy Commission: *See*—
Smith, Jean G.; and Fitch, Frederick T., 3,476,691.
May, Bob D.; and Williams, James L. Kite pivot controller. 3,421,722, 1-14-69, Cl. 244-155.
May, Charles R.: *See*—
Durand, Fred A., Jr.; and May, Charles R.,3,434,517.
May, Charles W.: *See*—
Begeman, Robert H.; Brickey, Orville G.; May, Charles W.; and McCormick, Richard E.,3,453,617.
May, Clayton A., to Shell Oil Company. Unsaturated polyester compositions and their preparation. 3,420,914, 1-7-69, Cl. 260-837.
May, Clayton A., to Shell Oil Company. Polyhydroxy-containing unsaturated polyesters and their preparation. 3,432,478, 3-11-69, Cl. 260-78.5
May, Clayton A.; and Badenhop, Charles T., to Shell Oil Company. Process for curing polyepoxides with a polyamine and resulting products. 3,420,794, 1-7-69, Cl. 260-47.
May, Clayton A.: *See*—
Smith, George; May, Clayton A.; Seid, Donald M.; and Haycock, Ernest W.,3,455,805.
May, George A., to Northern Electric Company Limited. High speed binary flip-flop. 3,459,974, 8-5-69, Cl. 307-292.
May, George A.: *See*—
Davidson, Ian A.; Hantusch, Gerald H.; and May, George A.,3,423,822.
May, Gerald L., to Goodrich, B. F., Company, The. Inflatable mandrel. 3,425,642, 2-4-69, Cl. 242-72.
May, Gordon Cyril; and Moreton, Albert James, to Rolls-Royce Limited. Gas turbine engine having turbine discs with reduced temperature differential. 3,453,825, 7-8-69, Cl. 60-39.09

May, Gordon H., to International Business Machines Corporation. Fare operated gate assembly. 3,478,467, 11-18-69, Cl. 49-35.
May, Gordon H.; and Shepard, Joseph E., to International Business Machines Corporation. Roll feed device. 3,441,188, 4-29-69, Cl. 226-180.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, to British Industrial Plastics Limited. Process for polymerizing cyclic acetals. 3,422,035, 1-14-69, Cl. 260-2.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, to British Industrial Plastics Limited. Polymerisation process. 3,474,074, 10-21-69, Cl. 260-73.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, to British Industrial Plastics Limited. Polymerisation process. 3,480,590, 11-25-69, Cl. 260-73.
May, Herbert; Kendall-Smith, Brian John; and Dodd, John Alan, to British Industrial Plastics Limited. Process for the polymerization of trioxan utilizing a fluoroarsenate. 3,451,967, 6-24-69, Cl. 260-67.
May, Herbert; Kendall-Smith, Brian John; Dodd, John Alan; and Instone, Alan Thomas, to British Industrial Plastics Limited. Process for polymerizing cyclic ethers and cyclic acetals with an arsenic-containing catalyst. 3,442,867, 5-6-69, Cl. 260-67.
May, Herbert; Kendall-Smith, Brian John; and Spensley, Robert Hardy, to British Industrial Plastics Limited. Process of preparing tetrahydrofuran-3,3-bis (chloromethyl) oxacyclobutane copolymers. 3,449,267, 6-10-69, Cl. 260-2.
May, Herbert; and Partridge, Derek Bernard, to British Industrial Plastics Limited. Copolymerizing formaldehyde oligomers and heptadienes with arsenic and antimony flouride catalysts. 3,466,263, 9-9-69, Cl. 260-73.
May, Howard F., to General Electric Company. Combined jet and direct air condenser. 3,423,078, 1-21-69, Cl. 261-138.
May, Howard F.; and Kovacik, John M., to General Electric Company. Two-section heat recovery steam generator. 3,443,550, 5-13-69, Cl. 122-7.
May, Hugh B., to Simpson Manufacturing Company. Tool wear-broken tool indicator. 3,446,058, 5-27-69, Cl. 73-37.5
May, James E.: *See*—
Haley, Alfred J., Jr.; Keith, Carl D.; and May, James E.,3,461,058.
May, James L.; Stephens, James A., Sr.; and Stephens, James A., Jr. Spout for tear strip opened containers. 3,473,705, 10-21-69, Cl. 222-541.
May, Joe Turner: *See*—
Hoffman, Richard Alan; May, Joe Turner; and Meckley, Frederick William,3,437,461.
May, Kenneth D.: *See*—
Lenk, James W.; Burnett, Arthur H.; and May, Kenneth D.,3,429,238.
May, Louis F., Jr.: *See*—
Liloia, Gerald J.; and May, Louis F., Jr.,3,455,302.
May, Marvin I. Amusement device. 3,451,671, 6-24-69, Cl. 272-1.
May, Max: *See*—
Wicki, Heinz; May, Max; and Badertscher, Markus,3,472,605.
May, Maymie F., trusts: *See*—
Ratliff, Harvey L., Jr., 3,463,570.
May, Michael G. Injection pump arrangement for combustion engine. 3,425,403, 2-4-69, Cl. 123-139.
May, Michael: *See*—
Hansen, Jay M.; and May, Michael,3,448,438.
May, Patrick L.; and Beyer, Ralph E., to International Harvester Company. Automatic bale wagon. 3,446,369, 5-27-69, Cl. 214-6.
May, Patrick L.; and Beyer, Ralph E., to International Harvester Company. Power take-off adapter box for tractor P.T.O. driven implements. 3,482,456, 12-9-69, Cl. 74-11.
May, Patrick L.; and Ralston, William K., to International Harvester Company. Self-stripping wire twister hook for wire balers. 3,431,837, 3-11-69, Cl. 100-31.
May, Patrick L.; Vidrine, Clyde G.; and Beyer, Ralph E., to International Harvester Company. Agricultural apparatus. 3,486,439, 12-30-69, Cl. 100-142.
May, Reginald Ralph: *See*—
Stripp, Peter William; and May, Reginald Ralph,3,461,990.
May, Richard D. Waste disposal system. 3,446,356, 5-27-69, Cl. 210-117.
May, Richard K.: *See*—
Smith, Kenneth F.; and May, Richard K.,3,423,979.
May, Richard L.: *See*—
Cowell, Robert L.; and May, Richard L.,3,475,856.
May, Richard L., to Mattel, Inc. Moving-eye, walking figure toy. 3,462,875, 8-26-69, Cl. 46-120.
Ryan, John W.; and May, Richard L.,3,421,254.
Ryan, John W.; and May, Richard L.,3,440,714.
May, Ronald W.: *See*—
Floehr, Walter L.; Hipp, James D.; and May, Ronald W.,3,450,064.
May, William Charles: *See*—
Stamford, Stanley; Terry, James Bernard; Gratton, Charles Peter; and May, William Charles,3,441,477.
May, William Donald, to Pulp and Paper Research Institute of Canada. Apparatus for measuring out of tram and plate separation of disc refiners. 3,434,670, 3-25-69, Cl. 241-37.
May-Pressenbau G.m.b.H.: *See*—
Nagele, Rudolf, 3,452,618.
Maybach Mercedes-Benz Motorenbau GmbH: *See*—
Haide, Karl, 3,478,515.
Herold, Manfred; and Brosig, Adolf, 3,476,218.
Seifert, Richard, 3,420,215.
Mayberry, Marshall L.; and Martinet, Jacques R., to Kaiser Aluminum & Chemical Corporation. Direct-bonded periclase refractories and process of preparing same. 3,473,939, 10-21-69, Cl. 106-58.
Maybury, Gordon Howard; and Moore, Frank Woodward, to Lucas, Joseph, (Industries) Limited. Slipring unit for dynamoelectric machines. 3,441,765, 4-29-69, Cl. 310-232.
Maycock, William Henry, to Associated Electrical Industries Limited. Electric spark ignition units. 3,421,825, 1-14-69, Cl. 431-208.
Maydan, Dan: *See*—
Crowell, Merton H.; and Maydan, Dan,3,483,942.
Maydorn, Wolfgang: *See*—
Baltzer, Erich; Maydorn, Wolfgang; and Nachilla, Herbert,3,448,595.
Mayeaux, Emma Lee A. Holder for food. 3,481,458, 12-2-69, Cl. 206-56.
Mayer & Cie: *See*—
Martinetz, Johann; and Paepke, Horst, 3,461,690.
Paepke, Horst, 3,452,559.
Paepke, Horst, 3,466,897.
Mayer, Albert: *See*—
Berman, Marvin A.; Levy, Paul M.; and Mayer, Albert,3,435,959.
Mayer, Alois. Method of treatment of crude animal fat. 3,424,587, 1-28-69, Cl. 99-7.
Mayer, Andreas: *See*—
Plotz, Georg; Mayer, Andreas; and Lewandowski, Adolf,3,421,333.
Mayer, David P.; and Richter, Sidney B., to Velsicol Chemical Corporation. Substituted and unsubstituted N-lower alkyl benzhydryl-carbamates as herbicides. 3,431,099, 3-4-69, Cl. 71-106.
Mayer, David P.: *See*—
Richter, Sidney B.; and Mayer, David P.,3,422,199.
Richter, Sidney B.; and Mayer, David P.,3,470,237.
Mayer, Edward F.; and Sullivan, William A., Jr., to Xerox Corporation. Xerographic development method and apparatus. 3,472,657, 10-14-69, Cl. 96-1.
Mayer, Endre A., to Bendix Corporation, The. Vortex valve. 3,424,182, 1-28-69, Cl. 137-81.5
Mayer, Endre A., to Bendix Corporation, The. Fluid control device. 3,444,878, 5-20-69, Cl. 137-81.5
Mayer, Endre A., to Bendix Corporation, The. Bistable fluid device. 3,456,667, 7-22-69, Cl. 137-81.5
Mayer, Endre A., to Bendix Corporation, The. Pressure amplifier. 3,468,329, 9-23-69, Cl. 137-81.5
Mayer, Endre A., to Bendix Corporation, The. Flowing probe vortex device. 3,486,521, 12-30-69, Cl. 137-81.5
Mayer, Ferdy. Production of low velocity motion. 3,427,898, 2-18-69, Cl. 74-640.
Mayer, Ferdy. Electrical circuit protection devices utilizing capacitor discharge. 3,467,890, 9-16-69, Cl. 317-33.
Mayer, Fernand: *See*—
Upham, George B.; Mayer, Fernand; and Louis, Georges,3,424,440.
Mayer, Frank, & Associates, Inc.: *See*—
Crosslen, Louis John, 3,478,893.
Mayer, Fritz: *See*—
Schaefer, Paul; Mayer, Fritz; and Maeder, Arthur,3,459,716.
Mayer, George; and Greenwood, Roger Kearsley, to International Nickel Company, Inc., The. Low alloy steel particularly suitable for cold forging. 3,432,291, 3-11-69, Cl. 75-124.
Mayer, Gerhard; and Haft, Roland, to Siemens Aktiengesellschaft. Vaporization vessel for use in vapor deposition upon a carrier support. 3,452,970, 7-1-69, Cl. 263-47.
Mayer, Guy, to CSF-Compagnie Generale de Telegraphie Sans Fil. System for measuring the radiation path in a laser. 3,462,127, 8-19-69, Cl. 356-106.
Mayer, Hans J.; Ruegg, Rudolf; and Schudel, Peter, to Hoffmann-La Roche Inc. Production of chromanes. 3,455,959, 7-15-69, Cl. 260-345.5
Mayer, Heinz, to International Standard Electric Corporation. Apparatus for a three-part recording head arrangement. 3,447,807, 6-3-69, Cl. 274-4.
Mayer, James W.; Bower, Robert W.; and Shifrin, Gordon A., to Hughes Aircraft Company. Diode having large capacitance change related to minimal applied voltage. 3,483,443, 12-9-69, Cl. 317-234.
Mayer, James W.; Marsh, Ogden J.; and Baron, Robert E., to Hughes Aircraft Company. Switching circuit using a two-carrier negative resistance device. 3,424,910, 1-28-69, Cl. 250-211.

Mayer, John F., to Navan Incorporated. Deformable sealing ring having integral spacer flange. 3,446,508, 5-27-69, Cl. 277-180.
Mayer, Joseph W. Ring shim having securing insert. 3,483,717, 12-16-69, Cl. 63-15.6
Mayer, Julian Richard, to Sterling Drug Inc.6-(Lower-alkanoyl)-4-hydroxy-2-mercapto-5,6,7,8- tetrahydropyrido[4,3-d]pyrimidines. 3,444,168, 5-13-69, Cl. 260-256.5
Mayer, Leo F.: *See—*
Thornsen, Bernard L.; Henrich, Robert S.; and Mayer, Leo F.,3,480,849.
Mayer, Oscar, & Co., Inc.: *See—*
Balch, James L., 3,486,632.
Gifford, Maurice J.; and Grindrod, Paul E., 3,420,679.
Gifford, Maurice J.; and Seiferth, Oscar E., 3,438,788.
Jensen, Hans A.; and Eberman, Augustus H., 3,424,042.
Jensen, Hans A., 3,465,492.
Jensen, Hans A.; and Eberman, Augustus H., 3,467,240.
Jensen, Hans A.; and Merdler, Myron J., 3,478,488.
Jensen, Hans A.; and Eberman, Augustus H., 3,479,792.
Kielsmeier, Elwood W.; and Paynter, William D., 3,473,190.
Middleton, Frederick H., 3,422,489.
Middleton, Frederick H., 3,473,189.
Olson, Floyd C.; and Trautman, Jack C., 3,447,932.
Olson, Floyd C.; and Podebradsky, Everett V., 3,453,120.
Orloff, Daniel L., 3,473,579.
Trautman, Jack C.; and Middleton, Frederic H., 3,487,094.
Vedvik, Andrew H.; and Middleton, Frederic H., 3,471,918.
Wedekind, Norman J.; and Orloff, Daniel L., 3,464,343.
Mayer, Oscar, Co., Inc.: *See—*
Seiferth, Oscar E.; and Austin, Glenn M., 3,432,980.
Mayer, Richard: *See—*
Kraemer, Stefan; Seidl, Alois; Mayer, Richard; and Streibl, Ludwig,3,473,904.
Mayer, Robert: *See—*
Hall, Lawrence J.; Mayer, Robert; and Young, Einar T.,3,435,238.
Mayer, Robert, to Sun Oil Company. Apparatus for measuring blade-die spacing in a pelletizer including a rotating capacitor blade. 3,428,889, 2-18-69, Cl. 324-61.
Mayer, Robert; Shawhan, Elbert N.; and Young, Einar T., to Sun Oil Company. Liquid level measuring apparatus. 3,473,380, 10-21-69, Cl. 73-304.
Mayer, Rudi; and Suling, Carlhans, to Farbenfabriken Bayer Aktiengesellschaft. Copolymers of acrylonitrile and process for preparing same. 3,467,629, 9-16-69, Cl. 260-79.3
Mayer, Rudolf: *See—*
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H.,3,437,727.
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H.,3,443,008.
Mayer, Siegfried: *See—*
Kramer, Manfred; Mayer, Siegfried; Reichert, Rudolf; Rose, Klaus; and Zirps, Wilhelm,3,425,593.
Mayer, Simon E.: *See—*
Gray, Robert D.; and Mayer, Simon E.,3,442,923.
Gray, Robert D.; and Mayer, Simon E.,3,472,637.
Mayer, Simon Ernest, to Trancoa Chemical Corporation. Radiation resistant semiconductor grade silicon containing a metal oxide. 3,444,100, 5-13-69, Cl. 252-520.
Mayer, Viktor: *See—*
Maier, Kurt Maria; Mayer, Viktor; Mortl, Gunther Lorenz; and Skalla, Norbert Franz,3,429,723.
Mayer, William J.; Krause, Douglas P.; Lange, Walter H.; and Moore, Caleb P., to General Motors Corporation. Method of measuring oil consumption in an engine. 3,471,696, 10-7-69, Cl. 250-83.
Mayerjak, Robert J., to Kaman Corporation. Flexible coupling. 3,481,158, 12-2-69, Cl. 64-12.
Mayerl, Michael C., to Mangood Corporation. Multiple channel indicating apparatus. 3,428,787, 2-18-69, Cl. 235-92.
Mayerle, Evan A.; and Craig, Richard L., to Nalco Chemical Company. Method of preparing trialkyl lead acetate. 3,450,734, 6-17-69, Cl. 260-436.
Mayerle, Evan A.; and Hunter, Edward A., to Nalco Chemical Company. Purification of ethers. 3,458,410, 7-29-69, Cl. 204-59.
Mayes, James H.: *See—*
Reitmeier, Ronald E.; Mayfield, Franklin D.; and Mayes, James H.,3,437,703.
Mayes, Nathan, to Thiokol Chemical Corporation. Novel polymer intermediates. 3,440,260, 4-22-69, Cl. 260-448.2
Mayes, Paul E.; and Grant, Ronald D., to JFD Electronics Corporation, mesne. Log periodic dipole array with dual band directors. 3,466,655, 9-9-69, Cl. 343-792.5
Mayes, Paul E.: *See—*
Grant, Ronald D.; and Mayes, Paul E.,3,454,950.
Mayes, Robert M. Birdhouse kit. 3,459,157, 8-5-69, Cl. 119-23.
Mayet, Pierre Ernest: *See—*
Bourdin, Jean Sylvain; and Mayet, Pierre Ernest,3,444,727.
Mayfield, Franklin D.: *See—*
Reitmeier, Ronald E.; Mayfield, Franklin D.; and Mayes, James H.,3,437,703.
Mayfield, George C., to McQuay-Norris Manufacturing Company. Piston ring assembly. 3,447,811, 6-3-69, Cl. 277-193.
Mayfield Laboratories, Inc.: *See—*
Mooney, John Russell, 3,465,390.
Mayfield, Orley J., to Kewanee Oil Company, mesne. Method of treating animals infected with large roundworms using cobalt arsenic compounds. 3,466,363, 9-9-69, Cl. 424-295.
Mayfield, William B.: *See—*
Reinicke, Robert H.; and Mayfield, William B.,3,472,277.
Mayhall, Joel O.: *See—*
Colburn, Steven C.; Hallse, Robert L.; Matsuda, Hisashi; and Mayhall, Joel O.,3,481,010.
Mayhew, Donald J.: *See—*
Prasse, Herbert F.; and Mayhew, Donald J.,3,456,952.
Prasse, Herbert F.; and Mayhew, Donald J.,3,456,954.
Mayhew, Harry E., Jr.; and Wardle, Meredith C. Method and pendant system for arresting aircraft. 3,456,908, 7-22-69, Cl. 244-110.
Mayhew, Jean A.: *See—*
Sponske, Argyl D.; Mayhew, Jean A.; and Mayhew, Violet M.,3,422,961.
Mayhew, Norman H., to Jergens Tool Specialty Co. Pressure multiplying booster. 3,473,328, 10-21-69, Cl. 60-54.5
Mayhew, Raymond L.; and Williams, Earl P., to GAF Corporation. Pesticidal compositions comprising N-substituted gamma hydroxycarboxylic acid amides. 3,436,463, 4-1-69, Cl. 424-320.
Mayhew, Violet M.: *See—*
Sponske, Argyl D.; Mayhew, Jean A.; and Mayhew, Violet M.,3,422,961.
Mayhue, Luther F., to Phillips Petroleum Company. Separation of aluminum halide complex in alkylation process. 3,470,264, 9-30-69, Cl. 260-683.57
Mayhue, Luther F., to Phillips Petroleum Company. Alkylation process and vessel combining reaction, catalyst separation and coalescence therein. 3,485,893, 12-23-69, Cl. 260-683.43
Mayland, Bertrand J.: *See—*
Bocard, Joseph P.; Harvin, Richard L.; and Mayland, Bertrand J.,3,469,944.
Mayland, Bertrand J.; and Brandon, Charles S., to Girdler Corporation. Processes of producing fuel gases by reforming liquid hydrocarbons. 3,442,632, 5-6-69, Cl. 48-215.
Mayland, Bertrand J.; and Steinberger, Robert John, to Girdler Corporation. Apparatus for removal of acidic gases from gaseous atmospheres. 3,485,743, 12-23-69, Cl. 204-234.
Mayland, Bertrand J.; Trimarke, Carl Robert; Harvin, Richard L.; and Brandon, Charles S., to Girdler Corporation. Process for the catalytic steam reforming of naphtha and related hydrocarbons. 3,477,832, 11-11-69, Cl. 48-213.
Mayle, Louis F.; and Sanders, Robert W., to Magnavox Company, The. Automatic programming for detent-type TV tuner. 3,478,270, 11-11-69, Cl. 325-470.
Mayling, Albert A., to Roan Selection Limited. Bacterial leaching of ores with an alkaline matrix. 3,455,679, 7-15-69, Cl. 75-101.
Maynard, Douglas E. Level adjusting mechanism for free arm sewing machine. 3,468,589, 9-23-69, Cl. 312-29.
Maynard, Fred B., to Motorola, Inc. Quantizing circuit using progressively biased transistors in parallel. 3,458,721, 7-29-69, Cl. 307-235.
Maynard, John T.; and Yu, Johnny Dah-Chun, to Smith, A. O., Corporation. Control for dynamoelectric machine having a pair of capacitive timing circuits interconnected to control firing of a triggered switch. 3,421,027, 1-7-69, Cl. 307-293.
Maynard Manufacturing Company: *See—*
Bonacci, Nicholas A., 3,434,168.
Maynard, Robert W.: *See—*
Heyl, Leo W.; and Maynard, Robert W.,3,426,707.
St. Clair, Albert R.; and Maynard, Robert W.,3,421,461.
Mayne, David W.: *See—*
Markowitz, Seymour; and Mayne, David W.,3,474,419.
Mayne, David W.; and Spears, Loy Leonard, to Ampex Corporation. Sense amplifier including a differential amplifier with input coupled to drive-sense windings. 3,466,630, 9-9-69, Cl. 340-174.
Mayne, Walter W. Dead reckoning instrument. 3,478,195, 11-11-69, Cl. 235-61.
Mayne, Warren R.; and Johnson, Frank W., to Unitek Corporation. Orthodontic neckband. 3,458,935, 8-5-69, Cl. 32-14.
Mayner, Thomas S., to Midland-Ross Corporation. Variable area extruder die-head. 3,453,690, 7-8-69, Cl. 18-14.
Mayo, Bernard Joseph; and Lodge, James Alec, to Electric & Musical Industries Limited. Focusing and deflecting system for a cathode ray tube. 3,449,624, 6-10-69, Cl. 315-31.
Mayo, Fletcher, to Fishery Products Limited. Frozen food package and method of packaging frozen food. 3,464,833, 9-2-69, Cl. 99-174.
Mayo, Hayes Claude: *See—*
Finneran, James Ambrose; and Mayo, Hayes Claude,3,484,197.
Mayo, Hays C.: *See—*
Finneran, James A.; Mayo, Hays C.; Multhaup Robert H.; and Smith, Ronald B.,3,441,393.
Mayo, James W.: *See—*
Pride, Joseph D., Jr.; and Mayo, James W.,3,458,217.

Mayo, James W., to United States of America, National Aeronautics and Space Administration. Tubular coupling having frangible connecting means. 3,427,047, 2-11-69, Cl. 285-3.
Mayo, James W.; and Michael, James E., to United States of America, National Aeronautics and Space Administration. Electrical connector. 3,421,134, 1-7-69, Cl. 339-150.
Mayo, John H., to Mayo Valve Corporation. Plug valve. 3,425,661, 2-4-69, Cl. 251-175.
Mayo, John S.: *See—*
Heightley, John D.; Johannes, Virgil I.; Mayo, John S.; and Witt, Francis J.,3,420,956.
Mayo, Kenneth E.: *See—*
Fitzgerald, Joseph J.; and Mayo, Kenneth E.,3,432,386.
Mayo Valve Corporation: *See—*
Mayo, John H., 3,425,661.
Mayo, William E.: *See—*
Gottlieb, Joel B.; and Mayo, William E.,3,424,712.
Gottlieb, Joel B.; and Mayo, William E.,3,424,717.
Mayor, Anibal; and Dean, Jack A., to RCA Corporation. Television deflection circuit. 3,459,993, 8-5-69, Cl. 315-29.
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter, to Reckitt & Sons Limited. 15-Dehydro-6,14-endoetheno and endoethano northebaines and nororipavines. 3,464,992, 9-2-69, Cl. 260-285.
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter, to Reckitt & Sons Limited. 6,14-Endoetheno northebaines and nororipavines. 3,464,993, 9-2-69, Cl. 260-285.
Mayr, Alfred F. Bolts. 3,473,433, 10-21-69, Cl. 85-10.
Mayr, Helmut: *See—*
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard,3,483,807.
Mayr, Helmut; and Pelte, Richard. Photographic camera with an automatic exposure control device. 3,444,798, 5-20-69, Cl. 95-64.
Mayr, Helmut; and Pelte, Richard, to Agfa-Gevaert Aktiengesellschaft. Electrostatic control arrangement of a camera diaphragm. 3,469,516, 9-30-69, Cl. 95-64.
Mayr, Helmut; Pelte, Richard; and Auracher, August, to Agfa-Gevaert Aktiengesellschaft. Movie camera with fading means. 3,425,776, 2-4-69, Cl. 352-175.
Mayrand, Louis Philip, to Extar Company. Water-free toothpastes containing metaphosphates calcium, carbonate, and mineral oil. 3,475,533, 10-28-69, Cl. 424-57.
Mayrath, Martin. Universal joint drive connection for large angles of shaft deviation. 3,427,824, 2-18-69, Cl. 64-2.
Mayrath, Martin. Hinged-hopper auger conveyor. 3,435,941, 4-1-69, Cl. 198-87.
Mayrath, Martin. Auger conveyor discharge unit with safety outlet. 3,447,669, 6-3-69, Cl. 198-213.
Mayrhofer, Wilhelm: *See—*
Kronig, Walter; Mayrhofer, Wilhelm; Scharfe, Gerhard; Schwerdtel, Wulf; and Halcour, Kurt,3,485,887.
Mayridl, Jakob: *See—*
Stolze, Georg; and Mayridl, Jakob,3,422,228.
Mays, Robert K.; and Bertorelli, Orlando Leonard, to Huber, J. M., Corporation. Process of producing highly porous and reactive silica materials. 3,437,441, 4-8-69, Cl. 23-182.
Mays, Vance H., to Case, J. I., Company. Sliding gear shifting mechanism. 3,479,900, 11-25-69, Cl. 74-477.
Mays, Vance H.; and Lemke, James H., to Case, J. I., Company. Shifting mechanism for transmission. 3,468,180, 9-23-69, Cl. 74-475.
Mayse, Weldon D.: *See—*
Watson, Frederick D.; and Mayse, Weldon D.,3,458,429.
Maysteel Products Corp.: *See—*
Weber, Charles H., 3,439,132.
Maytag Company, The: *See—*
Burkland, Charles W., 3,454,240.
Jones, Gerald W.; and Ross, Frank E., 3,424,920.
Ross, Frank E., 3,430,871.
Smith, Thomas R., 3,471,940.
Smith, Thomas R., 3,486,701.
White, William D., 3,481,175.
Maytag, John Hardy, to Coors Porcelain Company. Can trimmer and scrap disposing mechanism. 3,425,251, 2-4-69, Cl. 72-71.
Maytone, Frank F., to Boeing Company, The. Apparatus for tinning printed circuitry. 3,434,455, 3-25-69, Cl. 118-72.
Maytum, Derek Laurie; and Eggerstedt, Karl Heinz, to Imperial Chemical Industries Limited. Agricultural spraying process and device. 3,481,540, 12-2-69, Cl. 239-1.
Maytum, James N.: *See—*
Skromme, Austin G.; and Maytum, James N.,3,427,079.
Mayumi, Kanji; Yamaki, Kiyoshi; Konishi, Akio; Suzuki, Shigeyuki; and Kiyama, Soji, to Kureha Chemical Industry Co., Ltd. Moisture-proof terpolymer coated cellophane. 3,428,482, 2-18-69, Cl. 117-145.
Mayumi, Kazuaki: *See—*
Tatsuzawa, Yoshinobu; Uchida, Kosaku; and Mayumi, Kazuaki,3,467,876.
Mazalov, Ivan Mikhailovich: *See—*
Vinogradov, Alexandr Sergeevich; Kapustin, Jury Mikhailovich; Maxjutenko, Ilya Nikolaevich; Kiselnikov, Vladimir Nikolaevich; Borisov, Igor Sergeevich; and Mazalov, Ivan Mikhailovich,3,419,940.
Mazanek, Henry E.: *See—*
Fortenbach, John H.; Hollowood, Hugh B.; and Mazanek, Henry E.,3,435,517.
Mazdiyasni, Khodabakhsh S.; Lynch, Charles; and Smith, Jonathan S., II, to United States of America, Air Force. Transparent zirconia composition and process for making same. 3,432,314, 3-11-69, Cl. 106-57.
Maze, Betty G. Adjustable mannequin. 3,472,435, 10-14-69, Cl. 223-68.
Maze, Perry Vincent. Sign construction with translucent reflector. 3,419,986, 1-7-69, Cl. 40-130.
Maze, Perry V. Twin face illuminated and reflecting sign. 3,448,538, 6-10-69, Cl. 40-130.
Mazeika, Albert, to Milton Manufacturing Company, Inc. Replacement cartridge inflator gauge. 3,429,332, 2-25-69, Cl. 137-227.
Mazelsky, Bernard. Energy-absorbing barrier device. 3,436,057, 4-1-69, Cl. 256-13.1
Mazerka, John T.: *See—*
Winston, Eric; and Mazerka, John T.,3,468,577.
Mazerolle, Lorn A., to Elkhart Bridge and Iron Company, Inc. Vehicle wheel suspension means Advertising means. 3,481,652, 12-2-69, Cl. 301-37.
Mazerolles, Pierre, to Centre National de la Recherche Scientifique. Organometallic polyamides. 3,485,803, 12-23-69, Cl. 260-78.
Maziarka, Robert J., to Alphamatic Corporation. Rotary base. 3,425,566, 2-4-69, Cl. 211-56.
Maziarka, Robert J., to Alphamatic Corporation. Imprinter carriage. 3,447,459, 6-3-69, Cl. 101-269.
Maziarka, Robert J., to Alphamatic Corporation. Storage file for cards. 3,483,646, 12-16-69, Cl. 40-124.2
Maziuk, John: *See—*
Bodkin, Ernest A.; and Maziuk, John,3,432,425.
Maziuk, John, to Mobil Oil Corporation. Serial reforming with a rare earth metal in all but last stage. 3,436,335, 4-1-69, Cl. 208-65.
Mazur, Chester C., to United States Steel Corporation. Apparatus for measuring strip temperature. 3,475,962, 11-4-69, Cl. 73-355.
Mazur, Richard A., to Uniroyal, Inc. Decorative laminate and method of making the same. 3,423,273, 1-21-69, Cl. 161-5.
Mazur, Robert G., to Westinghouse Electric Corporation. Method of lapping and polishing. 3,426,484, 2-11-69, Cl. 51-281.
Mazur, Robert H.; Goldkamp, Arthur H.; and Schlatter, James M., to Searle, G. D., & Co. Aspartic acid containing dipeptide lower alkyl esters. 3,475,403, 10-28-69, Cl. 260-112.5
Mazur, Sylvester S.: *See—*
Herbenar, Edward J.; and Mazur, Sylvester S.,3,441,298.
Mazurkevics, Anatolijs, to Allen Electric and Equipment Company. Three light testing arrangement for testing the voltage output of automobile voltage regulators. 3,437,916, 4-8-69, Cl. 324-28.
Mazurkevics, Anatolijs, to Allen Electric and Equipment Company. Engine testing circuit for connection across the ignition points of an internal combustion engine. 3,473,119, 10-14-69, Cl. 324-70.
Mazurkiewicz, Edward J., to Ford Motor Company. Vehicle seat positioning aid. 3,457,548, 7-22-69, Cl. 340-103.
Mazurkiewicz, Edward J., to Ford Motor Company. Fluid pressurizing and distributing apparatus for vehicles. 3,472,146, 10-14-69, Cl. 98-2.
Mazza, Geneva Carol. Albumin containing cosmetic lotion. 3,463,862, 8-26-69, Cl. 424-359.
Mazza, Gerald V. Glove construction. 3,430,265, 3-4-69, Cl. 2-162.
Mazzanti, Germana: *See—*
Mangini, Angelo; Mazzanti, Germana; and Tundo, Antonio,3,454,551.
Mazzanti, Giorgio: *See—*
Natta, Giulio; Chini, Paolo; Mazzanti, Giorgio; and Britz, Amelia,3,448,083.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio,3,458,489.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio,3,459,725.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio,3,476,728.
Natta, Giulio; Mazzanti, Giorgio; Pregaglia, Gianfranco; Valvassori, Alberto; and Sartori, Guido,3,483,173.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; Dall'Asta, Gino; and Sartori, Guido,3,453,250.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; and Sartori, Guido,3,476,720.
Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio,3,435,017.
Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio,3,438,956.
Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino,3,422,069.
Natta, Guilio; Pino, Piero; and Mazzanti, Giorgio,3,435,018.
Mazzei, Alesandro; Lugli, Gabriele; and Marconi, Walter, to Snam S.p.A.Process for preparing 1,4 cis polybutadiene using Al Br_3, an aluminum monoxydride and a cobalt compound. 3,463,766, 8-26-69, Cl. 260-94.3

Mazzei, Alessandro: *See—*
Marconi, Walter; Mazzei, Alessandro; and Lugli, Gabriele,3,468,867.
Mazzei, Gene L.; and Pokriots, Wilford Lewis, to Mike Console. Athletic net stabilization. 3,435,487, 4-1-69, Cl. 24-73.
Mazzella, Gerald: *See—*
Golden, Richard L.; and Mazzella, Gerald,3,423,471.
Mazzella, Salvatore. Tire adapter assembly. 3,426,824, 2-11-69, Cl. 152-242.
Mazzeo, Michael P.: *See—*
Gobran, Riad H.; Santaniello, Anthony F.; and Mazzeo, Michael P.,3,423,376.
Mazzi, Aramis, to Solis Societa a Responsabilita Limitata. Tubular hosiery tensioning device. 3,430,464, 3-4-69, Cl. 66-153.
Mazzio, Anthony James; and Birr, Louis G., Jr., to Dick, A. B., Company. Feed mechanism for photocopy machine or the like. 3,475,093, 10-28-69, Cl. 355-3.
Mazzocchi, Alfred A.: *See—*
Gazzoli, Anthony, 3,452,150.
Mazzocco, Philip. Wiglet. 3,434,481, 3-25-69, Cl. 132-53.
Mazzolini, Corrado; and Denti, Francesco, to ACSA Applicazioni Chimiche S.p.A. Synthetic vinyl fibres of high shrinkability. 3,424,833, 1-28-69, Cl. 264-168.
Mazzone, Charles P.: *See—*
Ross, Stanley E.; Mazzone, Charles P.; and Russo, Carl J.,3,441,990.
Turton, Walter; and Mazzone, Charles,3,479,710.
Mazzoni, Renato J.: *See—*
Gallagher, Raymond G.; Mazzoni, Renato J.; and Dauson, Samuel,3,466,826.
MB Associates: *See—*
Biehl, Arthur T.; and Mainhardt, Robert, 3,437,289.
MBT Corporation: *See—*
Daus, Donald A.; and Misch, Robert D., 3,447,506.
McAdams, Allan C., to International Harvester Company. Steering arm for bale thrower. 3,480,163, 11-25-69, Cl. 214-42.
McAfee, Charles F., to United States of America, Army. Metal oxide-silicon diode containing coating of vanodium petoxide-V_2O_5-deposited on n-type material with nickel electrodes. 3,471,756, 10-7-69, Cl. 317-234.
McAfee, Loyd, to Monroe Auto Equipment Company. Shock absorber performance demonstration stand. 3,478,445, 11-18-69, Cl. 35-49.
McAlaster, Robert J. Carton holder. 3,456,840, 7-22-69, Cl. 220-85.
McAleer, Howard J., to Formax Manufacturing Corporation. Cartridge work wheel. 3,451,093, 6-24-69, Cl. 15-230.1
McAlexander, Joseph C., Jr.: *See—*
Brown, Ford J.; and McAlexander, Joseph C., Jr.,3,426,425.
McAlister, Iris J.; McAlister, Jimmie D.; and Loder, Merle R. Vehicle load weighing device. 3,420,325, 1-7-69, Cl. 177-137.
McAlister, Jimmie D.: *See—*
McAlister, Iris J.; McAlister, Jimmie D.; and Loder, Merle R.,3,420,325.
McAllan, John Dewar, to National Research Development Corporation. Apparatus and method of metal extrusion. 3,449,935, 6-17-69, Cl. 72-60.
McAllister, Byron T.; and Good, Wilson C., to Westinghouse Electric Corporation. Fuse and fuse element supports for use therein. 3,460,085, 8-5-69, Cl. 337-190.
McAllister, Donald: *See—*
Jackson, Wilbur F.; Katchka, Jay R.; and McAllister, Donald,3,453,062.
Katchka, Jay R.; McAllister, Donald; and Scharer, Edward B.,3,454,038.
McAllister, William A., to Westinghouse Electric Corporation. Rare earth activated strontium lithium germanate phosphors. 3,420,781, 1-7-69, Cl. 252-301.4
McAllister, William A., to Westinghouse Electric Corporation. Strontium and barium substituted lanthanum phosphate phosphors. 3,422,024, 1-14-69, Cl. 252-301.4
McAllister, William A., to Westinghouse Electric Corporation. Terbium activated calcium and magnesium germanate phosphors. 3,451,941, 6-24-69, Cl. 252-301.4
McAlpine, Charles H.; and McGowan, Kenneth G., to Mac Engineering and Equipment Company. Method of casting intercell connections for batteries. 3,444,920, 5-20-69, Cl. 164-108.
McAlpine, Robert, Sir, & Sons Limited: *See—*
Bland, John, 3,426,857.
McAlvay, John C., to Webster Electric Company, Inc. Variable displacement swashplate pumps. 3,422,767, 1-21-69, Cl. 103-162.
McAlvay, John C.; and Hubbard, Glenn R., to Webster Electric Company, Inc. Hydraulic flow controlling apparatus. 3,465,519, 9-9-69, Cl. 60-52.
McAnallen, Charles K.: *See—*
Mills, Jack F.; and McAnallen, Charles K.,3,452,137.
McAndrew, Francis B., to Celanese Corporation. Branched oxymethylene copolymers and method of preparation. 3,435,005, 3-25-69, Cl. 260-67.
McAndrew, Francis B. Preparation of oxymethylene polymers in the presence of polyhydric compounds. 3,436,375, 4-1-69, Cl. 260-67.
McAndrew, Francis B., to Celanese Corporation. Copolymerization of trioxane with an epoxy- containing comonomer in the presence of an aldehyde. 3,445,433, 5-20-69, Cl. 260-67.
McAndrew, James P. Anti-creep adapter for milking machine inflations. 3,485,212, 12-23-69, Cl. 119-14.49
McAnelly, John K.; and Warner, William D. Method for preparing a bromelain solution for ante-mortem injection. 3,446,626, 5-27-69, Cl. 99-107.
McAnelly, John K.: *See—*
Young, Harland H.; Warner, William D.; and McAnelly, John K.,3,442,764.
McAninich, Herbert A.; and Underwood, Herbert N., to Borg-Warner Corporation. Hydrostatic washer transmission. 3,443,405, 5-13-69, Cl. 68-23.7
McArdle, Edward J.: *See—*
Colgan, Charles E.; and McArdle, Edward J.,3,455,481.
McArdle, John C.; and Rohleder, Joseph. Form tie breaker tool. 3,473,578, 10-21-69, Cl. 140-149.
McArthur, Colin Shaw, to Reynolds, R. J., Tobacco Company. Apparatus for making filter tip cigarettes. 3,420,243, 1-7-69, Cl. 131-94.
McArthur, Colin Shaw; and Hester, Benny Lee, to Reynolds, R. J., Tobacco Company. Cigarette inspection apparatus. 3,426,583, 2-11-69, Cl. 73-45.1
McArthur, Colin Shaw; and McKnight, Bruce Wall, to Reynolds, R. J., Tobacco Company. Cigarette inspection apparatus. 3,426,582, 2-11-69, Cl. 73-45.1
McArthur, Colin S.: *See—*
Pinkham, Jesse R.; Payne, Leslie E.; Michal, David H.; and McArthur, Colin S.,3,456,787.
McArthur, Colin S., to Reynolds, R. J., Tobacco Company. Method for making filter tip cigarettes. 3,470,884, 10-7-69, Cl. 131-94.
McArthur, Colin S., to Reynolds, R. J., Tobacco Company. Air actuated apparatus for controlling the diameter of a cigarette rod. 3,477,441, 11-11-69, Cl. 131-21.
McArthur, Colin S., to Reynolds, R. J., Tobacco Company. Pneumatic method and apparatus for testing cigarettes to detect loose ends and missing filter tips. 3,483,970, 12-16-69, Cl. 209-73.
McArthur, Colin S., to Reynolds, R. J., Tobacco Company. Apparatus for heating sheet material. 3,484,582, 12-16-69, Cl. 219-469.
McArthur, Donald B., to Hughes Aircraft Company. Motor control in a process control system. 3,486,093, 12-23-69, Cl. 318-102.
McArthur, George, Jr., to Glenwood Range Company, mesne. Cooking oven cleaning apparatus. 3,465,125, 9-2-69, Cl. 219-406.
McArthur, Raymond J.: *See—*
Elliott, James Franklin; Korzekwa, Samuel M.; and McArthur, Raymond J.,3,425,263.
McArtney, John J.: *See—*
Ake, Nelson E.; and McArtney, John J.,3,459,985.
McAuley, James H., to McAuley Manufacturing, Inc. Straight-through sprocket drive for open-link long pitch chain. 3,451,528, 6-24-69, Cl. 198-171.
McAuley, James H., to McAuley Manufacturing, Inc. Flexible material-conveying chain. 3,451,529, 6-24-69, Cl. 198-173.
McAuley Manufacturing, Inc.: *See—*
McAuley, James H., 3,451,528.
McAuley, James H., 3,451,529.
McAuliffe, Clayton D., to Chevron Research Company. Method of improving fluid flow in porous media. 3,472,319, 10-14-69, Cl. 166-270.
McAuliffe, Clayton D.; Simon, Ralph; and Johnson, Carl E., Jr., to Chevron Research Company. Pumping viscous crude. 3,467,195, 9-16-69, Cl. 166-314.
McAusland, John R. Conector for water stop material or the like. 3,439,592, 4-22-69, Cl. 94-18.
McAvoy, John A., to Burroughs Corporation. Time responsive error signal generator. 3,435,258, 3-25-69, Cl. 307-293.
McAvoy, John A., to Burroughs Corporation. Read-in driver. 3,458,717, 7-29-69, Cl. 307-154.
McAvoy, Thomas R.; and Anderson, John R., to Minnesota Mining and Manufacturing Company. Adapter. 3,436,876, 4-8-69, Cl. 51-378.
McAvoy, Thomas, to Valve Corporation of America. Aerosol tip and insert assembly. 3,472,457, 10-14-69, Cl. 239-337.
McBain, Frank; and McBain, John Alex. Skirt hanger. 3,474,943, 10-28-69, Cl. 223-95.
McBain, John Alex: *See—*
McBain, Frank; and McBain, John Alex,3,474,943.
McBaine, Clifford K., to North American Rockwell Corporation. Method and apparatus for producing electricity comprising a fuel cell in combination with an ecological system. 3,421,942, 1-14-69, Cl. 136-86.
Mc Bee, Earl T., to Purdue Research Foundation. Fungicidal composition containing 3α,4,7,7α- tetrahydro-2,3,3α,4,5,6,7,7α,-octahalo-4,7- methanoindene 1,8-dione diimine and method of using the same. 3,433,876, 3-18-69, Cl. 424-325.
McBee, Earl T.; and Turner, John J. Trioximinopolyhalocycloalkanes and process. 3,459,802, 8-5-69, Cl. 260-566.
McBee, Earl T.; and Turner, John J. Amino oximino polyhalocycloalkenes and process. 3,462,488, 8-19-69, Cl. 260-566.

McBeth, Clyde W.: *See—*
Haynes, George R.; McBeth, Clyde W.; Pilgram, Kurt H. G.; and White, Lyle V.,3,454,682.

McBeth, James R.: *See—*
Godfrey, Lawrence M., Jr.; and McBeth, James R.,3,458,859.

McBrayer, John S.; Pearson, Paul E., Jr.; and Robinson, Robert W., to Sperry Rand Corporation. Multiple channel fail functional system for discretely disconnecting malfunctioning sub-systems. 3,422,327, 1-14-69, Cl. 318-18.

McBride, Anthony V. Lamp unit mounting receptacle. 3,479,636, 11-18-69, Cl. 339-125.

McBride, Clarence E.; O'Brien, David F.; and Gates, John W., Jr., to Eastman kodak Company. Bridged dihydroxynaphthalene and bridged dihydroxyanthracene silver halide developing agents and antifoggants. 3,459,549, 8-5-69, Cl. 96-66.5

McBride, Harold O.; Tichy, Oscar A. W.; and McNish, Howard G., to Whirlpool Corporation. Flow responsive automatic water level control. 3,478,373, 11-18-69, Cl. 8-158.

McBride, Harold Oren; and Gartley, William H., to Whirlpool Corporation. Automatic water level control. 3,478,374, 11-18-69, Cl. 8-158.

McBride, Lyle E., Jr., to Texas Instruments, Incorporated. Temperature control apparatus. 3,465,961, 9-9-69, Cl. 236-9.

McBride, Lyle E., Jr.; and Waseleski, Joseph W., to Texas Instruments, Incorporated. Thermostatic apparatus. 3,456,878, 7-22-69, Cl. 236-1.

McBride, Richard T., to Du Pont de Nemours, E. I., and Company. Process of producing laminar film structures. 3,443,980, 5-13-69, Cl. 117-47.

McBrien, James H., to Helmerich & Payne, Inc. Pipe protector. 3,445,144, 5-20-69, Cl. 308-4.

McBrien, James H.; and Wright, Gerald T., to Helmerich & Payne, Inc. Secondary seal. 3,422,981, 1-21-69, Cl. 220-26.

McBrien, Robert M.: *See—*
Vanderbur, John E., Jr.; Waggoner, James N.; and McBrien, Robert M.,3,424,218.

McBroom, Marvin L.: *See—*
Pritchard, Vernon M.; and McBroom, Marvin L.,3,466,794.

McBurnett, Arthur D., to Automatic Car-Wash Distributors, Inc., mesne. Car washing device. 3,481,346, 12-2-69, Cl. 134-45.

McCabe, Bernard J.: *See—*
Noe, Joseph T.; Peppard, Donald M.; and McCabe, Bernard J.,3,420,222.

McCabe, Daniel U. Lifetime check valve for gasoline dispensing equipment. 3,461,905, 8-19-69, Cl. 137-315.

McCabe, Donald A.: *See—*
Meyer, Marion J.; and McCabe, Donald A.,3,468,663.

McCabe, Earl A., Jr.: *See—*
Dean, Richard A.; and McCabe, Earl A., Jr.,3,432,390.

McCabe, Harold E, to Teleflex, Incorporated. Remote control assembly. 3,438,280, 4-15-69, Cl. 74-501.

McCabe, Harold E., to Teleflex Incorporated. Remote control assembly. 3,464,285, 9-2-69, Cl. 74-501.

McCabe, Harold E., to Teleflex Incorporated. Remote control assembly. 3,464,286, 9-2-69, Cl. 74-501.

McCabe, Harold E., to Teleflex Incorporated. Remote control assembly. 3,464,287, 9-2-69, Cl. 74-501.

Mc Cabe, Harry D.: *See—*
Dunlap, William, Jr.; Koretzky, Herman; and Mc Cabe, Harry D.,3,446,657.

McCabe, Leo J., to Mobil Oil Corporation. Novel boroxarophenanthrene-amine compounds as antioxidants. 3,437,596, 4-8-69, Cl. 252-49.6

McCabe, Logan D., to Braun, G. A. Combination spreader-feeder for flatwork ironer. 3,464,131, 9-2-69, Cl. 38-143.

McCabe, Neale R.; and Pearce, Michael L., to Air Reduction Company, Incorporated. Production of ultrapure titanium nitride refractory articles. 3,451,772, 6-24-69, Cl. 23-191.

McCabe, Philip G., to RCA Corporation. Electron beam convergence apparatus. 3,459,989, 8-5-69, Cl. 315-22.

McCabe-Powers Body Company: *See—*
Zwight, Daniel H., 3,467,217.

McCaffray, Edmund, Jr.; and Kursevich, John F. Wire and cord winding machine. 3,463,412, 8-26-69, Cl. 242-7.19

McCaffrey, Bernard E.; Moore, Harold R.; and Pennoyer, Douglas H., to Bell Telephone Laboratories, Incorporated. Automatic number intercept identification system. 3,426,156, 2-4-69, Cl. 179-18.

McCaffrey, D. M.: *See—*
Porter, Donald C., 3,469,594.

McCaffrey, Donald M. Display card holder. 3,474,555, 10-28-69, Cl. 40-11.

McCaffrey, Patricia Ann: *See—*
Porter, Donald C., 3,469,594.

McCain, George H.; Semancik, John R.; and Dietrich, Joseph J., to Diamond Shamrock Corporation. Process for polymerizing vinylidene fluoride. 3,475,396, 10-28-69, Cl. 260-92.1

McCain, Lawrence G., to Ponder & Best. Shutter release device for moving picture cameras. 3,427,103, 2-11-69, Cl. 352-178.

McCain, William B.; and Weller, Ronald W., to Chicago Machinery Laboratory, Inc. Signature feeding apparatus. 3,481,594, 12-2-69, Cl. 270-54.

McCaldin, James O.; and Widmer, Alois E., to North American Rockwell Corporation. Semiconducting device. 3,442,721, 5-6-69, Cl. 148-33.

McCaleb, Cloyse L. Vibrator attachment for vehicle seats. 3,455,296, 7-15-69, Cl. 128-33.

McCalip, Robert L.: *See—*
Granberry, Doyle S.; McCalip, Robert L.; and Lovelace, Byron K.,3,431,636.

McCall, Andrew A. Collapsible fire escape ladder assembly. 3,444,958, 5-20-69, Cl. 182-93.

McCall, Charles E.: *See—*
Hughes, Richard Smith; and McCall, Charles E.,3,461,392.

McCall, Ernest Bryson; and Rawlings, Terence James, to Monsanto Chemicals Limited. Preparation of polycyclic aromatic compounds. 3,455,951, 7-15-69, Cl. 260-327.

McCall, Frank S.; and Bolling, Robert W., to Union Camp Corporation. Bonding arrangement for plies of multiply bags. 3,485,438, 12-23-69, Cl. 229-58.

McCall, Gene H., to United States of America, Atomic Energy Commission. High-speed framing camera system. 3,485,159, 12-23-69, Cl. 95-36.

McCall, John M., to Fairchild Camera and Instrument Corporation. Turret font photocomposing machine. 3,434,402, 3-25-69, Cl. 95-4.5

McCall, Loyd H., Jr., to Lockheed Aircraft Corporation. Mounting fixture. 3,482,809, 12-9-69, Cl. 248-216.

McCall, Nelson H.: *See—*
Kirkendall, Richard D.; Deas, Robert W.; McCall, Nelson H.; and Gay, Herman P.,3,453,882.

McCall, Richard C., to Isotopes, Inc., mesne. Phosphor-teflon thermoluminescent dosimeter. 3,471,699, 10-7-69, Cl. 250-71.

McCall, Richard J. Mailing folder. 3,426,957, 2-11-69, Cl. 229-40.

McCall, Richard J., to Shuron/Continental, Division of Textron Inc., mesne. Method of generating a lens. 3,448,549, 6-10-69, Cl. 51-284.

McCall, William H.: *See—*
Monsees, Claude E.; and McCall, William H.,3,471,993.

Mc Callister, Joseph David; Mc Math, Allen M.; and Anderson, Darwin Arthur, to Iowa, The State of, for the use and benefit of the University of Iowa. Tablet cleaning apparatus. 3,466,695, 9-16-69, Cl. 15-306.

McCallister, Robert A.; and Sinclair, Alan M., to Foster Wheeler Corporation. Ammonia production process. 3,432,265, 3-11-69, Cl. 23-197.

McCallum, David Livingston. Three-dimensional models. 3,439,578, 4-22-69, Cl. 90-13.

McCammon, James Elvin. Auto op'ner garage door. 3,454,074, 7-8-69, Cl. 160-189.

McCammon, Robert F., to Honeywell Inc. Tri-capstan drive and web tensioner. 3,421,674, 1-14-69, Cl. 226-195.

McCammon, Robert F.; and Parker, Darrell D., to Honeywell Inc. Stabilizing apparatus for a thin flexible member. 3,465,938, 9-9-69, Cl. 226-88.

Mc Cammon, William W.: *See—*
Klysa, John, Jr.; and Mc Cammon, William W.,3,483,455.

McCampbell, William M., to United States of America, National Aeronautics and Space Administration. Weld control system using thermocouple wire. 3,458,104, 7-29-69, Cl. 228-9.

McCance, Fred N. Towing apparatus. 3,428,332, 2-18-69, Cl. 280-292.

McCandless, Joseph M.: *See—*
Dale, John R.; Menzel, Harry R.; McCandless, Joseph M.; and Goss, Garnet,3,449,950.

McCandless, William, to Owens-Illinois, Inc. Method and apparatus for forming drumlike containers. 3,456,564, 7-22-69, Cl. 93-55.1

McCandless, William, to Scott & Fetzer Company, The, mesne. Hopper for power sweeper. 3,461,474, 8-19-69, Cl. 15-83.

McCandless, William, to Scott & Fetzer Company, The, mesne. Sweeper filter. 3,484,889, 12-23-69, Cl. 15-340.

Mc Canless, Stuart D.; and Plowden, Irvin V., to Celanese Corporation. Automatic damper mechanism for baling staple fibers. 3,442,204, 5-6-69, Cl. 100-35.

McCann, John David; and Fuller, Robin Walter Ellecker, to United Kingdom Atomic Energy Authority. Electron emitting cathodes having a flexible graphite filament with an emissive coating thereon. 3,479,551, 11-18-69, Cl. 313-334.

McCann, Joseph E.: *See—*
Shaver, James M.; and McCann, Joseph E.,3,454,236.

McCann, Joseph P., to Theobald Industries, The. Methods for producing glues and/or gelatins and protein and phosphate rich residues. 3,445,448, 5-20-69, Cl. 260-118.

McCann, Robert J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,430,909.

McCann, Walter L., to Giddings & Lewis, Inc. Multiple table swiveling work support. 3,469,497, 9-30-69, Cl. 90-58.

McCann, Walter L.; and Johnson, Earl E., to Giddings & Lewis, Inc. Quill support for machine tool spindles. 3,469,496, 9-30-69, Cl. 90-14.
McCanse, James E., to Hesston of Delaware, Inc., mesne. Constant velocity drive. 3,483,683, 12-16-69, Cl. 56-25.4
McCard, Henry W.; and Ross, Donald H. Rotating drum heater for synthetic yarn. 3,420,983, 1-7-69, Cl. 219-388.
McCarley, Herbert R.: *See—*
Grimme, Brooks H.; and McCarley, Herbert R.,3,459,053.
White, Harold V.; and McCarley, Herbert R.,3,422,326.
McCarrick, Henry J., deceased0 (by McCarrick, Mary A.; executrix), to Texas Instruments, Incorporated. Electrical overload circuit breaker. 3,460,078, 8-5-69, Cl. 335-193.
McCarrick, Mary A.: *See—*
McCarrick, Henry J.,3,460,078.
McCarroll, Alan F.: *See—*
Squassoni, Gino F.; Hermanson, Herman A.; McCarroll, Alan F.; and Zurovskis, Egon,3,442,588.
McCarroll, Joseph F.: *See—*
Greenblum, Carl; Buegler, Robert J.; McCarroll, Joseph F.; Avakian, Emik A.; and Granbery, John,3,484,748.
McCarroll, Raymond A., to Acme Precision Products, Inc. Nozzle for injection molding. 3,486,552, 12-30-69, Cl. 164-337.
McCarron, Fred H.: *See—*
Ganske, Warren L.; Stein, Jolyon A.; Gidlow, Rolf G.; and McCarron, Fred H.,3,433,644.
McCarthy, Charles D.: *See—*
Foley, Charles F.; and McCarthy, Charles D.,3,484,106.
McCarthy, Daniel J.: *See—*
Schwartz, James W.; and McCarthy, Daniel J.,3,473,065.
McCarthy, Dennis K.: *See—*
Johnson, John C., Jr.; Madey, Jesse M.; Moyer, Xopher W.; and McCarthy, Dennis K.,3,460,397.
McCarthy, Donal E. Production of 1,5-hexadiene. 3,484,502, 12-16-69, Cl. 260-680.
Mc Carthy, Edward J., to Pneumatic Scale Corporation. Packaging machine. 3,460,464, 8-12-69, Cl. 100-90.
Mc Carthy, Edward J., to Pneumatic Scale Corporation. Apparatus for handling flexible bags. 3,473,293, 10-21-69, Cl. 53-183.
McCarthy, Edward W. Chlorosulfonated polyethylene fabric having vinyl and polyurethane coatings. 3,429,729, 2-25-69, Cl. 117-11.
McCarthy, Edward W., to Chemical Rubber Products, Inc. Heat sealable polyurethane composite and method of making same. 3,484,274, 12-16-69, Cl. 117-76.
McCarthy, Francis L.: *See—*
Sullivan, Charles I.; and McCarthy, Francis L.,3,457,208.
McCarthy, Harry E.: *See—*
Bertrand, Louis; and McCarthy, Harry E.,3,462,086.
McCarthy, James L.: *See—*
Jaquith, Howard R.; McCarthy, James L.; Nichols, Nathaniel B.; and Norton, Stanley C., Jr.,3,480,854.
McCarthy, John F., Jr., to North American Rockwell Corporation. Impact landing system. 3,484,826, 12-16-69, Cl. 244-1.
McCarthy, John H.: *See—*
Baker, Ralph W.; McCarthy, John H.; Place, Harold G.; and Wikman, Andrew O.,3,468,968.
Guzick, Norman D.; and McCarthy, John H.,3,475,501.
McCarthy, John J., to Norco, Inc. Overload-release coupling. 3,422,502, 1-21-69, Cl. 24-123.
McCarthy, John J., to Norco, Inc. Separable fastener receiver part. 3,452,403, 7-1-69, Cl. 24-211.
McCarthy, John J., to Norco, Inc. Releasable plug-and-socket fastener. 3,466,715, 9-16-69, Cl. 24-230.
McCarthy, John J., to Norco, Inc. Quick release pin. 3,466,965, 9-16-69, Cl. 85-3.
Mc Carthy, John J., to Norco, Inc. Quickly-openable snatch block. 3,486,206, 12-30-69, Cl. 24-239.
McCarthy, John P.: *See—*
Daniels, Charles K.; and McCarthy, John P.,3,458,853.
Firestone, Stanley; and McCarthy, John,3,450,097.
O'Brien, Angus J.; and McCarthy, John,3,486,646.
McCarthy, Joseph V.: *See—*
Cronig, Alvin; McCarthy, Joseph V.; and Gruber, Francois,3,485,348.
McCarthy, Leland: *See—*
Boynton, William W., 3,486,315.
McCarthy, Michael J.: *See—*
Knapp, Kenneth W.; McCarthy, Michael J.; and Darbee, Leonard R.,3,441,388.
Sproul, Jared S.; McCarthy, Michael J.; and Lapple, Walter C.,3,437,433.
McCarthy, Patrick M. Multipurpose fabric. 3,483,575, 12-16-69, Cl. 5-343.
McCarthy, Paul R.; and Orem, Thomas R., to Gulf Research & Development Company. Pipe thread lubricant. 3,423,315, 1-21-69, Cl. 252-19.
McCarthy, Robert F., to Procter & Gamble Company, The. Method and apparatus for label inspection and improvement and the product produced thereby. 3,457,137, 7-22-69, Cl. 161-116.
McCarthy, Robert. Method of removing undesirable flavor and spoilage influencing substances from uncooked meat. 3,476,569, 11-4-69, Cl. 99-107.
McCarthy, Roy Arthur, to Beckman Instruments, Inc. Time shared integration circuit. 3,433,937, 3-18-69, Cl. 235-183.
McCarthy, Thomas F.: *See—*
Fisher, William F.; Hughes, James L.; and McCarthy, Thomas F.,3,465,829.
McCarthy, Thomas; Meagher, Philip F.; and Norman, Reini J., to International Business Machines Corporation. Character recognition apparatus. 3,460,091, 8-5-69, Cl. 340-146.3
McCarthy, William C., to Phillips Petroleum Company. Separation of fluid mixtures. 3,485,013, 12-23-69, Cl. 55-18.
McCarthy, William J., to Goodrich, B. F., Company, The. Carboxy terminated liquid polybutyl acrylate cured with epoxy resin. 3,465,058, 9-2-69, Cl. 260-837.
McCarthy, William J.: *See—*
Noll, Raymond F.; and McCarthy, William J.,3,449,301.
McCarthy, William R.: *See—*
Moyer, Allan M.; McCarthy, William R.; and Petrell, Wilfred M.,3,464,506.
McCartin, Joseph P. Spherical worm and pin gear indexing apparatus. 3,477,305, 11-11-69, Cl. 74-426.
McCartney, Duane N.; Carder, Victor H.; and Shaw, Hugh H., to Domino Sugar Company. Cargo handling apparatus. 3,435,969, 4-1-69, Cl. 214-84.
Mc Cartney, Duane N.; and Duerksen, Arnold, to Cochran Western Corporation. Cargo handling apparatus. 3,474,925, 10-28-69, Cl. 214-512.
McCartney, Earl J., to Sperry Rand Corporation. Optical inspection system. 3,436,556, 4-1-69, Cl. 250-223.
McCartney, Jack D. Portable pipe thread cleaning device. 3,436,783, 4-8-69, Cl. 15-104.03
McCartney, James R., to General Foods Corporation. Process for removal of deleterious acid components from steam volatilized coffee. 3,420,674, 1-7-69, Cl. 99-71.
McCartney, John M.: *See—*
Rofe, Duane H.; Rambie, Edward J.; and McCartney, John M.,3,482,808.
McCartney, John S., to Corning Glass Works. Method of selective stressing and birefringent article. 3,447,857, 6-3-69, Cl. 350-157.
McCartney, Talmadge O.: *See—*
Dewey, Donald E.; Hartman, Charles H.; Horn, Robert D.; and McCartney, Talmadge O.,3,422,537.
Mc Carty, Clyde W., to General Electric Company. Adjustable torsion member mechanism for torsion member clocks. 3,432,698, 3-11-69, Cl. 310-36.
McCarty, Helen A. Pattern marker. 3,429,050, 2-25-69, Cl. 33-189.
McCarty, Lee A., to Self-Service Machines, Inc. Twin filter with backwash for dry cleaning mechanism. 3,421,835, 1-14-69, Cl. 8-158.
McCarty, Lourdes V.: *See—*
Fairley, Richard K.; and McCarty, Lourdes V.,3,451,407.
Fairley, Richard K.; and McCarty, Lourdes V.,3,477,641.
McCarty, Orin P.; and Urbanek, Francis S., to General Electric Company. Pressure responsive protective means for vacuum type circuit interrupters immersed in liquid. 3,472,981, 10-14-69, Cl. 200-144.
McCarty, Theodore M., to Bigsby Accessories, Inc. Bridge for stringed musical instruments. 3,440,921, 4-29-69, Cl. 84-307.
McCarty, Theodore M.; and Huis, John, to Bigsby Accessories, Inc. Vibrato tailpiece. 3,457,821, 7-29-69, Cl. 84-313.
McCarty, William R., Jr.: *See—*
Erickson, Howard L.; and McCarty, William R., Jr.,3,456,836.
McCarver, Herman D. Trundling toy. 3,455,050, 7-15-69, Cl. 46-107.
McCaskey, Bob L.; Kohn, Gustave K.; and Moore, Joseph E., to Chevron Research Company. Imido perhaloalkyl disulfides. 3,478,052, 11-11-69, Cl. 260-326.
McCaskill, Louie Millard. Apparatus for engaging and re-orienting conveyed articles. 3,433,346, 3-18-69, Cl. 198-33.
McCaskill, William Brand; and Neal, James Preston, IV, to Du Pont de Nemours, E. I., and Company. Tow ejector. 3,426,630, 2-11-69, Cl. 83-66.
McCasland, Roy F. Portable slide viewer. 3,477,783, 11-11-69, Cl. 353-78.
McCaughna, James R. Electric fuses. 3,486,155, 12-23-69, Cl. 337-231.
McCauley, Donald R., to General Signal Corporation. Sonic vehicle detector using noise blanking. 3,435,406, 3-25-69, Cl. 340-1.
McCauley, Harry J.: *See—*
Breton, Ernest J.; Eustice, Albert L.; and McCauley, Harry J.,3,480,460.
McCauley, Herbert J. Wedge nut. 3,425,312, 2-4-69, Cl. 85-32.
McCauley, Herbert J. Bicycle kickstand. 3,425,713, 2-4-69, Cl. 280-301.
McCauley, Herbert J. Handlebar support. 3,425,722, 2-4-69, Cl. 287-52.02
McCauley, Robert J., to U.S. Metal Fabricating Co. Card board box hinge construction. 3,483,587, 12-16-69, Cl. 16-159.

McCauley, Thomas M.: *See—*
Trounstine, Henry P.; and McCauley, Thomas M.,3,484,835.
McCaully, Ronald J., to American Home Products Corporation. Process for the preparation of 1,3-dihydro-2H-1, 4-benzodiazepin-2-ones. 3,446,800, 5-27-69, Cl. 260-239.3
McCaully, Ronald J.; and Bell, Stanley C., to American Home Products Corporation. Enamine adducts of N-acyloxy-N-acylaminoacetanilide. 3,474,093, 10-21-69, Cl. 260-247.1
McCaully, Ronald J.; Bell, Stanley C.; and Russell, Peter B., to American Home Products Corporation. Preparation of 1-hydroxyhydantoins and 1- hydroxythiohydantoins. 3,448,116, 6-3-69, Cl. 260-309.5
McCaw, Walter J.: *See—*
Clement, Ira T.; and McCaw, Walter J.,3,453,359.
McCay, Frank V., Jr., to Eimco Corporation, The. Bucket drive for overhead mining machine. 3,425,573, 2-4-69, Cl. 214-131.
McCay, Thomas E., to Pioneer Mortgage and Investment Company, Inc., mesne. Wireless extension telephone. 3,443,035, 5-6-69, Cl. 179-41.
Mc Claflin, Gifford G.; and Jacocks, Claud L., to Nalco Chemical Company. Method for fracturing oil wells with low fluid loss fracturing fluids. 3,466,242, 9-9-69, Cl. 252-8.55
McClaflin, Gifford G.: *See—*
Miller, Donald B.; McClaflin, Gifford G.; and Sorenson, Wayne R.,3,432,513.
McClain, Dorothee M., to National Distillers and Chemical Corporation. Process of preparing finely divided thermo- plastic resins. 3,422,049, 1-14-69, Cl. 260-29.6
McClain, Herbert K., to Procter & Gamble Company, The. Trapezoidal scouring pad of non-woven fibrous material. 3,451,758, 6-24-69, Cl. 401-201.
McClanahan, Henry H.: *See—*
Flack, Herbert P.; and McClanahan, Henry H.,3,463,842.
McClaren, Cecil L. Electric cooking apparatus. 3,474,725, 10-28-69, Cl. 99-400.
McClay, John C., to Bell Telephone Laboratories, Incorporated. Undersea repeater burying plowshare. 3,423,946, 1-28-69, Cl. 61-72.4
Mc Cleary, Robert E.; and Decker, Robert L., to United States Gypsum Company. Apparatus for producing cast gypsum articles. 3,459,620, 8-5-69, Cl. 156-346.
McClellan, Bingham A., to Burke Flexo-Products Company. Chain reinforced plastic worm fish lure with hook shanks threaded on chain. 3,429,066, 2-25-69, Cl. 43-42.24
McClellan, Bingham A., to Burke Flexo-Products Company. Elongated flexible artificial lure for large fish. 3,440,757, 4-29-69, Cl. 43-42.24
McClellan, Bion W.; and Thomson, Kenneth W., to Eastman Kodak Company. Device for controlling film pull-down mechanism to provide forward, reverse and still projection in a motion picture projector. 3,471,227, 10-7-69, Cl. 352-169.
McClellan, Herbert L.; and Huss, Donald E., to National Machinery Company, The. Forging method and apparatus. 3,456,474, 7-22-69, Cl. 72-203.
McClellan, Malcolm B.: *See—*
Baker, Don R.; Brokke, Mervin E.; and McClellan, Malcolm B.,3,472,927.
Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B.,3,458,570.
McClellan, Marcus Earl: *See—*
Soteropulos, Gust; and McClellan, Marcus Earl,3,485,016.
McClellan, Thomas R., to Upjohn Company, The. Polyurethane elastomeric sealants. 3,450,653, 6-17-69, Cl. 260-18.
McClelland, Malcolm B.: *See—*
Fearing, Ralph B.; and McClelland, Malcolm B.,3,439,092.
McClelland, Robert: *See—*
Robinson, Claude G.; and McClelland, Robert,3,429,081.
Mc Clelland, Walter B., to Teletype Corporation. Block synchronization circuit for a data communications system. 3,473,150, 10-14-69, Cl. 340-163.
Mc Clenathan, John A., to Beloit Corporation. Crownless electromagnetic press roll loading. 3,456,582, 7-22-69, Cl. 100-155.
McClendon, Jack C., to Dow Chemical Company, The. Cationic polyacrylamide terpolymers. 3,478,003, 11-11-69, Cl. 260-80.73
McClendon, Jack C.; and Dick, Clarence R., to Dow Chemical Company, The. Water-soluble polyesters containing alkylenepolyamine groups. 3,470,136, 9-30-69, Cl. 260-75.
McClendon, Kenneth Wayne. Transferable electric meter holder and method. 3,420,382, 1-7-69, Cl. 211-26.
McClimon, Alan S.: *See—*
Bowman, Spencer; and McClimon, Alan S.,3,472,405.
Mc Clintock, Andrew Lindsay Muir: *See—*
MacLean, Robert Sisterson; Mc Clintock, Andrew Lindsay Muir; and Sharp, Royds,3,465,570.
Mc Clintock, Donald R., to Westinghouse Electric Corporation. Method of making a nuclear fuel element. 3,460,237, 8-12-69, Cl. 29-474.3
McClintock, Eugene P.; and Cox, Jesse H. Pleat marking device. 3,464,600, 9-2-69, Cl. 223-28.
McClintock, Ross A.: *See—*
Gibson, Wilfred C.; McClintock, Ross A.; and Thompson, Raymond E.,3,474,858.
McClintock, Sherman E. Stop and turn indicator for an automobile. 3,487,359, 12-30-69, Cl. 340-87.
McClinton, John. Jet-type reamer for use with drill pipe strings. 3,454,119, 7-8-69, Cl. 175-422.
McCloskey, Albert R., to Heim Universal Corporation, The. Bearing liner having etched particles embedded therein. 3,471,207, 10-7-69, Cl. 308-72.
McClosky, Robert B. Sealed packages. 3,429,495, 2-25-69, Cl. 229-7.
McCloud, James: *See—*
Erickson, John W.; Konrad, Marion G.; and McCloud, James,3,464,369.
McCloy, Robert W., to United States of America, Navy. External burning ramjet engine. 3,430,446, 3-4-69, Cl. 60-270.
McClung, Fred J.: *See—*
McClung, Robert M.; and McClung, Fred J.,3,447,183.
McClung, Robert M.; and McClung, Fred J. Mop structure. 3,447,183, 6-3-69, Cl. 15-151.
McClure, Charles A.: *See—*
Tamarin, Bernard J., 3,450,143.
McClure, Charles A. Strand treatment process and apparatus. 3,429,015, 2-25-69, Cl. 28-1.
McClure, Charles A. Strand treatment. 3,457,613, 7-29-69, Cl. 28-72.
McClure, Charles, Jr., to Westinghouse Electric Corporation. Method of making a fuse with a sand core. 3,447,240, 6-3-69, Cl. 29-623.
McClure, Gerald L.: *See—*
Winogrocki, Ray F.; Brzozowski, Stephen, Jr.; and McClure, Gerald L.,3,459,909.
McClure, Harold E., to Thermo King Corporation. Diesel fuel system. 3,444,871, 5-20-69, Cl. 137-15.
McClure, James D., to Shell Oil Company. Olefin oligomerization. 3,431,318, 3-4-69, Cl. 260-683.15
McClure, James D., to Shell Oil Company. Dimerization of hydrocarbyl vinyl ketones. 3,444,208, 5-13-69, Cl. 260-590.
McClure, James D.; and Barnett, Kenneth W., to Shell Oil Company. Ethylene oligomerization. 3,424,816, 1-28-69, Cl. 260-683.15
McClure, James D.; and Williams, Paul H., to Shell Oil Company. Production of epoxy ammonium salts. 3,475,458, 10-28-69, Cl. 260-348.
McClure, John L., to General Electric Company. Motor winding control means. 3,423,660, 1-21-69, Cl. 318-221.
McClure, John L., to General Electric Company. Electric water heater circuit. 3,431,395, 3-4-69, Cl. 219-321.
McClure, Robert E., to Sperry Rand Corporation. Laser fluid flow sensor insensitive to rotation. 3,448,406, 6-3-69, Cl. 331-94.5
McClure, Robert E., to Sperry Rand Corporation. Ring laser having a piezoelectric reflector external to the closed loop to cancel a frequency modulation within the loop. 3,462,708, 8-19-69, Cl. 331-94.5
McClure, Roger N.: *See—*
Montgomery, Vernon H.; and McClure, Roger N.,3,433,283.
Mc Clurg, Glenn O.: *See—*
Gruetzmacher, Ralph W.; Mc Clurg, Glenn O.; and O'Connor, Donald T.,3,465,242.
McCluskey, Alvin J. Pet carrier for vehicles. 3,426,368, 2-11-69, Cl. 5-94.
McCluskey, David C., to Continental Can Company, Inc. Web registering method and apparatus for package- forming machines and the like. 3,427,778, 2-18-69, Cl. 53-3.
McClusky, James K.: *See—*
Wilhelm, Harley A.; and McClusky, James K.,3,463,634.
McColl, Michael J., to Crown Zellerbach Corporation. Multi-blank reinforced fiberboard container. 3,430,839, 3-4-69, Cl. 229-23.
McCollough, Darrel G.; and Trousdale, Robert B., to California Computer Products, Inc. Cathode ray tube digital display system. 3,471,847, 10-7-69, Cl. 340-324.
McCollough, John K., to Milliken Industrials Corporation. Wrapped coin package. 3,445,056, 5-20-69, Cl. 229-87.2
McCollough, John K.; and Murray, John H., to Clemson Industries, Inc. Coin wrapping method and machine. 3,457,695, 7-29-69, Cl. 53-30.
Mc Collum, Louis Stanton. Process for recovering aluminum values from heat expandable materials. 3,427,127, 2-11-69, Cl. 23-143.
McComb, Austin B., administrator of said: *See—*
McComb, William P.; McComb, Austin B., administrator of said; and McComb, W. P., deceased,3,443,641.
McComb, Frank E., to Flexible Steel Lacing Company. Method and apparatus for securing a lacing strip to the end of a belt. 3,438,096, 4-15-69, Cl. 24-33.
McComb, W. P.: *See—*
McComb, William P.; McComb, Austin B., administrator of said; and McComb, W. P., deceased,3,443,641.
McComb, William P.; McComb, Austin B., administrator of said; and McComb, W. P., deceased. a well bore. 3,443,641, 5-13-69, Cl. 166-302.

McCombie, Alan Keith: *See—*
Molins, Desmond Walter; McCombie, Alan Keith; and Barton, Ronald Sidney Charles,3,433,347.
McConkey, Alfred R. Ice fishing rig with self-contained automatic catcher. 3,474,561, 10-28-69, Cl. 43-16.
McConnaughay, Kenneth E. Method of making a paving composition. 3,423,222, 1-21-69, Cl. 106-278.
Mc Connaughey, Newton: *See—*
Mc Vey, Charles I.; Mc Connaughey, Newton; Gibson, Harlan D.; and Smith, Jack V.,3,449,175.
McConnaughey, Paul W.: *See—*
Plantz, Charles A.; Jenca, Cecelia C.; and McConnaughey, Paul W.,3,482,944.
McConnaughey, Paul W., to Mine Safety Appliances Company. Detection of alcohols in gas atmospheres. 3,455,654, 7-15-69, Cl. 23-232.
McConnel, T. W., Limited: *See—*
Norton, Harry William, 3,441,155.
McConnell, Albert L.; Meisel, Fred W., Jr.; and Adams, Whitney R., to Scott Paper Company. Method of making patterned foam-to-fabric laminates. 3,425,882, 2-4-69, Cl. 156-82.
McConnell, Albert L.; Pociluyko, Alexander; and Adams, Whitney R., to Scott Paper Company. Diaper retaining garment. 3,461,872, 8-19-69, Cl. 128-287.
McConnell and Associates: *See—*
Mc Connell, John A., 3,458,092.
McConnell, Charles K.: *See—*
Casey, Edward H.; and McConnell, Charles K.,3,482,558.
Mc Connell, Harden M., to Synvar Associates, mesne. Electron spin resonance labels for biomolecules. 3,453,288, 7-1-69, Cl. 260-326.8
McConnell, Harden M.; and Griffith, Osbie H., to Synbar Associates, mesne. N-(1-oxide-2,2,5,5, tetra lower alkyl pyrrolcdinyl-3—-maleimides. 3,481,952, 12-2-69, Cl. 260-326.5
McConnell, Howard B.: *See—*
Huston, William J., Sr.; and McConnell, Howard B.,3,436,824.
McConnell, Inc.: *See—*
McConnell, John A.; and Williamson, Everett Wayne, 3,480,023.
McConnell, James C., to Western Electric Company, Incorporated. Apparatus for fastening leads to an electrical component. 3,452,417, 7-1-69, Cl. 29-203.
McConnell, James C., to United States of America, National Aeronautics and Space Administration. Method of plating copper on aluminum. 3,468,765, 9-23-69, Cl. 204-33.
McConnell, James L.: *See—*
Niewyk, Anthony; and McConnell, James L.,3,484,772.
Mc Connell, John A., to McConnell and Associates. Measuring and dispensing device. 3,458,092, 7-29-69, Cl. 222-361.
McConnell, John A.; and Williamson, Everett Wayne, to McConnell, Inc. Collapsible tent. 3,480,023, 11-25-69, Cl. 135-1.
McConnell, Kennedy: *See—*
Lorden, William C.; McConnell, Kennedy; and Donkle, Lucius B., Jr.,3,473,642.
McConnell, Kennedy, to Interlake Steel Corporation. Stacking frames for pallets. 3,438,343, 4-15-69, Cl. 108-53.
McConnell, Richard L.: *See—*
Coover, Harry W., Jr.; and McConnell, Richard L.,3,455,871.
Joyner, Frederick B.; and McConnell, Richard L.,3,480,580.
McConnell, Richard L.; and Coover, Harry W., Jr., to Eastman Kodak Company. Polymers derived from diamines and phosphites or phosphonites. 3,450,677, 6-17-69, Cl. 260-77.5
McConnell, Wayne Varon; and Moore, William Howard, to Eastman Kodak Company. Epoxidized hydrocarbon mixtures. 3,467,615, 9-16-69, Cl. 260-30.4
McConnell, Wayne V.: *See—*
Hoyle, Vinton A., Jr.; and McConnell, Wayne V.,3,476,772.
McConnell, Wayne V., to Eastman Kodak Company. Solvent extraction of polymeric glycols using methanol. 3,478,109, 11-11-69, Cl. 260-611.
Mc Connell, Wayne V.; and Moore, William H., to Eastman Kodak Company. Aldehyde-ester compounds. 3,442,930, 5-6-69, Cl. 260-468.
McConnell, William C.; and Rahn, Henry W., to PPG Industries, Inc. Method of inhibiting post harvest deterioration of harvested plants. 3,449,108, 6-10-69, Cl. 71-68.
McConnell-Blumen & Associates: *See—*
Blumen, Marjorie A. K., 3,424,355.
McCool, Edward T., to United Shoe Machinery Corporation. Treatment of collagen fiber sheet. 3,483,016, 12-9-69, Cl. 117-63.
McCord Corporation: *See—*
Callahan, James J., 3,459,278.
Callahan, James J., 3,476,214.
Clemett, Edwin F., Jr., 3,431,578.
Mandy, Robert R.; and Kibler, Willis L., 3,456,278.
McCorkle, Kenneth H., Jr.: *See—*
Fitzgerald, Curtis L.; Godbee, Herschel W.; and McCorkle, Kenneth H., Jr.,3,463,738.
Mc Corkle, Manley L. Safety hitch. 3,442,534, 5-6-69, Cl. 280-511.
McCormack, John F.; and Schneble, Frederick W., Jr., to Photocircuits Corporaton. Printed circuits, work holders and method of preventing electroless metal deposition. 3,443,988, 5-13-69, Cl. 117-212.
McCormack, John F.: *See—*
Zeblisky, Rudolph J.; Schneble, Frederick W., Jr.; and McCormack, John F.,3,485,643.
Schneble, Frederick W., Jr.; McCormack, John; and Zeblisky, Rudolph J.,3,468,676.
McCormack, Thomas Leo: *See—*
Fuller, Harrison W.; McCormack, Thomas Leo; Aghassi, Badri Munir; and Morley, Richard E.,3,436,814.
McCormick & Henderson, Inc.: *See—*
McCormick, Henry Barry, 3,473,471.
McCormick, Charles T., Jr.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,464,012.
McCormick, Daniel F., to Brunswick Corporation. Mounting arrangement for hydraulic impact damping and power lift means for an outboard propulsion unit. 3,434,450, 3-25-69, Cl. 115-41.
McCormick, Harold E., to Ramsey Corporation. Static seal and method of making same. 3,440,122, 4-22-69, Cl. 156-329.
McCormick, Harold E.; and Schmitt, Robert E., to Ramsey Corporation. Method of making seal. 3,462,333, 8-19-69, Cl. 156-245.
McCormick, Henry Barry, to McCormick & Henderson, Inc. Method for preparing printed proofs. 3,473,471, 10-21-69, Cl. 101-426.
McCormick, James Benjamin; and Johnson, Leighton Clifford, to Miles Laboratories, Inc., mesne. Apparatus for applying liquid to slides. 3,431,886, 3-11-69, Cl. 118-10.
McCormick, James F. Resilient locking clip. 3,420,287, 1-7-69, Cl. 151-60.
McCormick, Jerry Robert Daniel; Joachim, Ursula; Jensen, Elmer Raymond; and Sjolander, Newell Oscar, to American Cyanamid Company. 6,11-Dihydro-11-keto-6-methyl-3,6,10,12- tetrahydroxynaphthacene-1,4-quinone-2- carboxamide. 3,431,303, 3-4-69, Cl. 260-559.
McCormick, Jerry Robert Daniel; Johnson, Sylvia Jennie; and Sjolander, Newell Oscar, to American Cyanamid Company. Process for the preparation of 7-chloro-5- hydroxytetracycline. 3,433,710, 3-18-69, Cl. 195-80.
McCormick, Jerry Robert Daniel; and Sjolander, Neel Oscar, to American Cyanamid Company. Biological transformation of τ-6-deoxytetracyclines to tetracyclines. 3,433,709, 3-18-69, Cl. 195-80.
McCormick, John E. Technique for producing 3-D motion pictures. 3,482,908, 12-9-69, Cl. 352-38.
McCormick, John E.: *See—*
Nelson, Richard; and McCormick, John E.,3,437,576.
McCormick, Joseph F., to United States of America, Navy, mesne. Tunable high frequency electrodynamic driver. 3,484,730, 12-16-69, Cl. 335-222.
McCormick, Larry L.: *See—*
Phillips, John J.; and McCormick, Larry L.,3,428,064.
McCormick, Loran F., to United States of America, Navy. Phase lock system for coded signal receiver. 3,462,702, 8-19-69, Cl. 331-18.
McCormick, Mack H., to Lilly, Eli, and Company. Process for the recovery and purification of cephalosporin C. 3,467,654, 9-16-69, Cl. 260-243.
McCormick, Maurice D. Motor coolant filter. 3,441,139, 4-29-69, Cl. 210-149.
McCormick, Michael R.: *See—*
Jerussi, Robert A.; and McCormick, Michael R.,3,424,722.
McCormick, Richard E.: *See—*
Begeman, Robert H.; Brickey, Orville G.; May, Charles W.; and McCormick, Richard E.,3,453,617.
McCormick, William A., Jr., to Pangborn Corporation, The. Method and apparatus for washing molded articles. 3,429,744, 2-25-69, Cl. 134-7.
McCormick, William F.: *See—*
Koornwinder, Dirk W.; and McCormick, William F.,3,424,160.
McCormick, William S.: *See—*
Heston, Eugene E.; Stroup, John F.; McCormick, William S.; and Wurgler, Heinrich J.,3,445,890.
McCormick, William S., to Badger Meter Manufacturing Company. NMR detection apparatus for use in fluid flowmeters. 3,473,108, 10-14-69, Cl. 324-0.5
McCornack, Robert R., to Kewanee Valve Company. Anti-siphon breaker. 3,447,559, 6-3-69, Cl. 137-218.
McCorquodale, Wilmer E., Jr.: *See—*
Maloney, Richard P.; and McCorquodale, Wilmer E., Jr.,3,437,463.
McCoubrey, George A., to Kaman Corporation. Rotary wing system. 3,484,174, 12-16-69, Cl. 416-132.
McCourt, Gerald M. Condensate drainage conduit for steam-heated drum and the like. 3,473,237, 10-21-69, Cl. 34-125.
McCowan, Eddie. Combined static and dynamic wheel balancer. 3,426,601, 2-11-69, Cl. 73-459.
Mc Cowen, Harvey H., to General Dynamics Corporation. Data pulse detection apparatus. 3,462,693, 8-19-69, Cl. 328-162.

McCowen, Harvey H.; and Harris, Halbert M., Jr., to General Dynamics Corporation. Method of writing and reading data pulses from a tape driven by a step tape transport. 3,474,429, 10-21-69, Cl. 340-174.1
McCown, Everett E., to United States of America, Navy. Laser deflection system for display applications. 3,425,771, 2-4-69, Cl. 350-285.
McCown, William E.; Maltby, Robert E., Jr.; and Allen, Carey M., to Libbey-Owens-Ford Glass Company. Apparatus for controlling glass temperatures. 3,479,172, 11-18-69, Cl. 65-158.
Mc Cown, William E.; Gladieux, Norman K.; and Dunipace, Donald W., to Libbey-Owens-Ford Company. Producing sheet glass. 3,476,539, 11-4-69, Cl. 65-25.
McCown, William E.: *See—*
Mambourg, James E.; and McCown, William E.,3,458,302.
McCoy, C. Dana: *See—*
Baldwin, William W.; McCoy, C. Dana; Bodin, Milton; and Zinn, Leon,3,436,634.
McCoy, Daniel W.: *See—*
Abe, Fujio; Cauthen, John V.; and McCoy, Daniel W.,3,456,310.
McCoy, Donald P.; and Stockburger, Charles J., to Singer Company, The. Lawnmower height adjustment apparatus. 3,421,776, 1-14-69, Cl. 280-43.17
McCoy, Frederic C.; and Hess, Howard V., to Texaco Inc. Process for removal of salts from aqueous solutions with methylenedianiline. 3,422,009, 1-14-69, Cl. 210-23.
McCoy, Frederic C.; and Knowles, Edwin C., to Texaco Inc. Heater and signal light device. 3,472,600, 10-14-69, Cl. 431-206.
McCoy, Frederic C.; and Knowles, Edwin C., to Texaco Inc. Lubricating composition. 3,480,551, 11-25-69, Cl. 252-42.7
McCoy, Frederic C.; Knowles, Edwin C.; and Hess, Howard V., to Texaco Inc. Method for conserving water. 3,441,369, 4-29-69, Cl. 21-60.5
Mc Coy, Frederic C.; and Hess, Howard V., to Texaco Inc.Addition compounds of certain sodium and lithium salts with 4,4'-methylenedianiline. 3,459,683, 8-5-69, Cl. 252-49.7
McCoy, Frederic C.: *See—*
Dadura, James G.; Knowles, Edwin C.; and McCoy, Frederic C.,3,422,017.
Hess, Howard V.; and McCoy, Frederic C.,3,433,583.
McCoy, Hubert L. Method of forming ceramic-to-metal seal Four wheel steering arrangement for land vehicles. 3,481,620, 12-2-69, Cl. 280-91.
McCoy, Lyle E. Heating apparatus for elongate material. 3,421,746, 1-14-69, Cl. 263-3.
McCoy, Lyle E. Apparatus for relieving internal stresses of textile webs. 3,474,508, 10-28-69, Cl. 26-18.5
McCoy, Marcus A. Energy burst generating element. 3,462,633, 8-19-69, Cl. 313-156.
McCoy, Peter J.: *See—*
Danko, Joseph C.; and McCoy, Peter J.,3,430,079.
McCoy, Raymond D.; and Ogle, Frank T., to Phillips Petroleum Company. Process control system for maintaining constant polymerization conditions. 3,475,392, 10-28-69, Cl. 260-83.7
McCoy, Robert G.; and Port, Robert J., to United States of America, Army, mesne. Stator for an electromagnetic transducer. 3,422,292, 1-14-69, Cl. 310-15.
McCoy, Thomas A., to Carando Machine Works. Flanging die. 3,460,500, 8-12-69, Cl. 113-120.
McCoy, Thomas A., to Carando Machine Works. Bail-attachment ear for metallic containers. 3,476,289, 11-4-69, Cl. 220-91.
McCoy, William D., to Collins Radio Company. Low distortion wide dynamic range phase detector. 3,463,938, 8-26-69, Cl. 307-232.
McCoy, Wyn E.: *See—*
Green, Walter F.; Williams, Robert L.; and McCoy, Wyn E.,3,420,589.
Mc Cracken, James W. Gripping drive vehicle. 3,469,536, 9-30-69, Cl. 105-30.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C., to Gulf Research & Development Company. Process for producing a keto polycarboxylic acid and product. 3,453,321, 7-1-69, Cl. 260-517.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C., to Gulf Research & Development Company. Process for obtaining a nitrogen containing keto polycarboxylic acid anhydride. 3,466,301, 9-9-69, Cl. 260-346.4
McCracken, John H.: *See—*
Lese, Henri K.; McCracken, John H.; and Schulz, Johann G. D.,3,448,146.
McCracken, William E., to Jeffrey Galion Manufacturing Company. Continuous mining machine with pivot structure for mining head, gathering head and conveyor boom. 3,479,090, 11-18-69, Cl. 299-64.
McCrary, James W.: *See—*
Haberecht, Rolf R.; Bracken, Ronald C.; and McCrary, James W.,3,436,306.
McCray, Allan S.: *See—*
McCray, Donald C.; McCray, Donald E.; and McCray, Allan S.,3,427,796.
McCray, Donald C.; McCray, Donald E.; and McCray, Allan S. Fruit picker. 3,427,796, 2-18-69, Cl. 56-328.
McCray, Donald E.: *See—*
McCray, Donald C.; McCray, Donald E.; and McCray, Allan S.,3,427,796.
McCray, Floyd D., to Phillips Petroleum Company. Pneumatic amplifier sampling valve for chromatographic analyzers. 3,439,542, 4-22-69, Cl. 73-422.
McCray, Floyd D.: *See—*
Sanford, Richard A.; McCray, Floyd D.; and Hutson, Thomas, Jr.,3,424,975.
McCray, Herbert S., to Bobrick Corporation, The. Soap dispenser with severable stop strip. 3,446,405, 5-27-69, Cl. 222-309.
McCray, Thomas Q. Readily engageable and readily releasable battery terminal and battery cable clamp assembly. 3,478,306, 11-11-69, Cl. 339-237.
McCrea, Joseph, to Stapling Machines Co. Wirebound box with integral ends. 3,460,737, 8-12-69, Cl. 229-23.
McCready, Newton W.: *See—*
Sams, Robert H.; and McCready, Newton W.,3,450,547.
Sams, Robert H.; and McCready, Newton W.,3,466,221.
McCready, Raymond G., to Lennox Industries, Inc. Compressor motor time delay circuit. 3,434,028, 3-18-69, Cl. 318-484.
McCready, Ross B.; and Forster, Klaus W., to Kerma Corporation. Apparatus for making steel by the basic oxygen process. 3,469,832, 9-30-69, Cl. 266-39.
McCreary, Harold J., to Bunker-Ramo Corporation, The. Non-destructive twister memory. 3,452,336, 6-24-69, Cl. 340-174.
McCreary, John. Apparatus and method for winding, cutting and removing web materials. 3,486,707, 12-30-69, Cl. 242-56.
McCreary Tire & Rubber Company: *See—*
Halsey, George H., 3,485,271.
Mc Creath, Michael King: *See—*
Davies, Trevor; East, Anthony Julian; and Mc Creath, Michael King,3,432,467.
McCreath, Michael King: *See—*
Delves, Allan Kenneth; East, Anthony Julian; McCreath, Michael King; and Roberts, John Francis Lloyd,3,471,446.
McCreight, Donald O.; Miller, Eldon D.; and Pavlica, Stanley R., to Dresser Industries, Inc. Vitreous slica refractories. 3,463,650, 8-26-69, Cl. 106-69.
McCrimlisk, Gerard Joseph: *See—*
Holland, Frederick Anthony; McCrimlisk, Gerard Joseph; and Kelly, William A.,3,420,857.
McCrosky Tool Corporation: *See—*
Gourley, Eugene F., 3,467,416.
Mc Crosky Tool Corporation: *See—*
Gourle Eugene F., 3,461,525.
McCue, David D.; and Brendle, Thomas A., to Aeroquip Corporation. Locomotive recording system. 3,441,943, 4-29-69, Cl. 346-33.
McCulla, Walter J.: *See—*
Brouwers, Alexander P.; McCulla, Walter J.; and Swanson, Morris A.,3,464,233.
Mc Culla, Walter J.: *See—*
Olson, George E.; and Mc Culla, Walter J.,3,481,316.
McCulloch Corporation: *See—*
Barr, Edward J.; and Brooks, John H., 3,441,010.
Burkett, Wilford B.; and Jackson, Robert V., 3,436,639.
Burkett, Wilford B.; and Jackson, Robert V., 3,454,860.
Dooley, James L.; and Gudmundsen, Austin, 3,463,267.
Ehlen, Jack W., 3,464,201.
Ehlen, Jack W., 3,468,351.
Font, Brunson Bert, 3,485,276.
Gasner, William L., 3,477,480.
Gudmundsen, Austin, 3,485,327.
Hazzard, Harry I., 3,429,411.
Hazzard, Harry I., 3,477,555.
Hazzard, Harry I., 3,483,988.
Jackson, Robert V.; and Burkett, Wilford B., 3,426,213.
Tyrrell, Vincent C.; and Bailey, Jay R., 3,485,117.
Wilkin, Ellsworth D., 3,453,732.
Wilkin, Ellsworth D., 3,485,326.
McCulloch, Doyle W. Vehicle washing system. 3,422,827, 1-21-69, Cl. 134-123.
Mc Culloch, Doyle W. Additive proportioning and injection system. 3,450,053, 6-17-69, Cl. 103-6.
McCulloch, Robert P. Method and apparatus for agitating material and in particular for tossing salads. 3,439,901, 4-22-69, Cl. 259-89.
McCullough, Dolly T.: *See—*
Catt, Lewis R.; and McCullough, James T.,3,473,485.
McCullough, Donald H.: *See—*
Singleton, John C.; McCullough, Donald H.; and Hartz, Raymond J.,3,428,839.
McCullough, Edward E., to Thiokol Chemical Corporation. Cavity shaping machine. 3,451,310, 6-24-69, Cl. 90-43.
McCullough, Edward E., to Thiokol Chemical Corporation. Coupling and valve assembly. 3,454,024, 7-8-69, Cl. 137-68.

McCullough, Edward E., to Thiokol Chemical Corporation. Combined segmented mandrel and handling means therefor. 3,465,388, 9-9-69, Cl. 18-45.

Mc Cullough, Edward E., to Thiokol Chemical Corporation. Coupling and valve assembly. 3,478,762, 11-18-69, Cl. 137-71.

McCullough, Edward E.; and Dorsey, Edward G., Jr., to Thiokol Chemical Corporation. Rocket nozzle support and pivoting system. 3,446,437, 5-27-69, Cl. 239-265.35

McCullough, Edward E.: *See*—
Johnson, John S.; and McCullough, Edward E.,3,420,469.
Lee, Robert E.; and McCullough, Edward E.,3,429,622.

McCullough, Harold E.: *See*—
Holtfreter, Richard P.; and McCullough, Harold E.,3,445,795.

McCullough, Harold M.: *See*—
Ortner, Martin H.; and McCullough, Harold M.,3,447,912.

McCullough, Ishmael. Combination eyeliner and false eyelash. 3,447,542, 6-3-69, Cl. 132-53.

McCullough, James T.: *See*—
Catt, Lewis R.; and McCullough, James T.,3,473,485.

McCullough, John Engstrom; and Moore, Raymond William, Jr., to Little, Arthur D., Inc. Method and apparatus for treating continuous strip material under vacuum. 3,440,390, 4-22-69, Cl. 219-121.

McCullough, John W.: *See*—
Brooks, Everett G.; and McCullough, John W.,3,471,853.
Goplen, Francis A.; McCullough, John W.; and Thomas Richard H.,3,466,516.

McCullough, Marjorie. Treatment comb. 3,463,170, 8-26-69, Cl. 132-113.

McCullough, Marjorie. Adjustable headdress frame. 3,470,569, 10-7-69, Cl. 2-180.

McCullough, Marshall J., to United States Steel Corporation. Gas-duct valve with flexible closure. 3,425,447, 2-4-69, Cl. 137-625.12

McCullough, Richard H.: *See*—
Johannes, Virgil I.; and McCullough, Richard H.,3,461,245.

McCullough, Robert E., to Hamilton Watch Company. Watch rate regulation. 3,455,104, 7-15-69, Cl. 58-107.

McCully, Charles Roland. Electrochemical cooling. 3,478,528, 11-18-69, Cl. 62-3.

McCune, Harry E., III, to Allegheny Ludlum Steel Corporation. Abrasion resistant austenitic stainless steel and process for making same. 3,437,477, 4-8-69, Cl. 75-128.

McCune, Robert B., to Abex Corporation. Overspeed and underspeed alarm system. 3,448,433, 6-3-69, Cl. 340-47.

McCune, Robert B.; and Wilson, Rosser L., to Abex Corporation. Railroad classification yard control system. 3,483,367, 12-9-69, Cl. 246-182.

Mc Cune, Robert B.; and Wilson, Rosser L., to Abex Corporation. Route switching systems. 3,480,773, 11-25-69, Cl. 246-4.

McCune, Thomas W.; and Foote, Francis S., Jr., to Tab Products Co. Tape reel storage system. 3,442,394, 5-6-69, Cl. 211-40.

Mc Cune, William J., Jr., to Polaroid Corporation. Capsular products. 3,427,160, 2-11-69, Cl. 96-29.

McCune, William J., Jr., to Polaroid Corporation. Capsular product having a silver halide layer. 3,468,662, 9-23-69, Cl. 96-77.

McCurdy, Gordon W., to Hercules Incorporated. Mixing apparatus and method. 3,450,389, 6-17-69, Cl. 259-60.

McCurdy, Lois M. Doll with rotatable head having interchangeable front and back parts. 3,464,146, 9-2-69, Cl. 46-22.

McCurdy, Ronald E. Projector screen supporting assemblies. 3,485,471, 12-23-69, Cl. 248-487.

McCutchan, Frank, Jr., to Du Pont de Nemours, E. I., and Company. Apparatus for interlacing multifilament yarn. 3,426,406, 2-11-69, Cl. 28-1.

McCutchen, Robert R.: *See*—
Staebler, Paul J.; Crawford, James L.; Fangman, Charles N.; and McCutchen, Robert R.,3,447,012.

McCutcheon, Charles E., Jr. Dry cleaning. 3,426,555, 2-11-69, Cl. 68-12.

McCutcheon, George H.: *See*—
Hanson, Lila M.; Hanson, Bernard B.; and McCutcheon, George H.,3,476,261.

McCutcheon, Lulu A. Educational and recreational lesson aids pixx games with peg boards. 3,478,446, 11-18-69, Cl. 35-73.

McCutcheon, Samuel R., to Fairchild Camera and Instrument Corporation. Self-balancing digital R.F. bridge. 3,427,558, 2-11-69, Cl. 330-2.

McCutcheon, Samuel R.; Belleville, Logan M.; and Ewin, William H., to Automated Measurements Corporation. Coaxial switch using reed switch and assembly and system with isolated actuating coil. 3,461,386, 8-12-69, Cl. 324-158.

McDade, James C.: *See*—
Saxena, Arjun N.; and McDade, James C.,3,450,957.

McDaniel, Alan R., to Texaco Inc. Method of drilling underwater wells. 3,426,844, 2-11-69, Cl. 166-0.5

McDaniel, Carl Vance; and Maher, Philip Kenerick, to Grace, W. R., & Co. Stabilized zeolites. 3,449,070, 6-10-69, Cl. 23-111.

McDaniel, Carl Vance; Maher, Philip Kenerick; and Pilato, Joseph Michael, to Grace, W. R., & Co. Production of binderless molecular sieve aggregates. 3,472,617, 10-14-69, Cl. 23-112.

McDaniel, Carl V.: *See*—
Maher, Philip K.; Baker, Richard W.; and McDaniel, Carl V.,3,423,332.

McDaniel, Donald M.: *See*—
Lyons, Charles E.; McDaniel, Donald M.; and Wade, Jack R., Jr.,3,465,871.

McDaniel, Edgar L.: *See*—
Young, Howard S.; and McDaniel, Edgar L.,3,437,690.

McDaniel, Gordon M.: *See*—
French, Howard W.; and McDaniel, Gordon M.,3,446,347.

McDaniel, Herman M.; and Koening, Eugene O., to Lambert, Lucian T. Relay actuated overhead door safety catch. 3,426,829, 2-11-69, Cl. 160-201.

McDaniel, James S.: *See*—
Cober, Lloyd W., Jr.; and McDaniel, James S.,3,474,952.

McDaniel, Joe R., to Westinghouse Electric Corporation. Wedge bonded leads for semiconductor devices. 3,458,780, 7-29-69, Cl. 317-234.

McDaniel, Rupert A.: *See*—
Charlton, Richard E., Jr.; and McDaniel, Rupert A.,3,476,626.

McDaniel, Walter L.: *See*—
Dudley, Robert E.; and McDaniel, Walter L.,3,462,183.

McDermott, Bernard Colin: *See*—
Brown, Kenneth Robson; and McDermott, Bernard Colin,3,468,019.

McDermott, Edward B., deceased0 (by Rackear, Bernard; executor). Hemostatic clip and applicator. 3,463,156, 8-26-69, Cl. 128-325.

McDermott, John F., to United States Steel Corporation. Method of forming a hyperbolic paraboloid construction component. 3,458,919, 8-5-69, Cl. 29-446.

McDermott, John P.: *See*—
Bertsch, Hugh C.; Hurd, Richard N.; McDermott, John P.; and White, Wesley R.,3,437,677.

McDermott, Lyle C., deceased0 (by McDermott, Mabel F.; administratrix). Air pollution elimination apparatus. 3,486,307, 12-30-69, Cl. 55-226.

McDermott, Mabel F.: *See*—
McDermott, Lyle C.,3,486,307.

McDevitt, Howard I., Jr.: *See*—
Green, Martin; and McDevitt, Howard I., Jr.,3,447,024.

McDivit, Patricia Ann. Implement mat. 3,442,376, 5-6-69, Cl. 206-63.5

McDonald, A. Y., Mfg. Co.: *See*—
Pullen, Charles R., 3,439,831.

McDonald, Charles A., to Chicago Bridge & Iron Company. Offshore storage tank system. 3,422,628, 1-21-69, Cl. 61-46.

McDonald, Donald A. Air moving apparatus. 3,469,772, 9-30-69, Cl. 230-117.

McDonald, Donald B. Robertson, to Chemi-Temp Corp. Chemical refrigerant blanket. 3,429,315, 2-25-69, Cl. 128-402.

McDonald, Douglass A.: *See*—
Mossman, Henry L.; and McDonald, Douglass A.,3,422,578.

McDonald, Harold, to Stauffer Chemical Company. Compacted sulfur and method of producing same. 3,431,214, 3-4-69, Cl. 252-189.

McDonald, Harold, to Stauffer Chemical Company. Alkali metal dialkyl phosphate stabilized chlorinated hydrocarbons. 3,441,620, 4-29-69, Cl. 260-652.5

McDonald, Harrison H., Jr., to Procter & Gamble Company, The. Indexing mechanism. 3,437,315, 4-8-69, Cl. 254-184.

McDonald, Harrison M., to Ideal Industries, Inc. Wire actuated ignitor for explosion connector. 3,483,311, 12-9-69, Cl. 174-87.

McDonald, Harrison M.; and Harfst, Ernest D., to Ideal Industries, Inc. Explosion connector with improved ignition means. 3,483,312, 12-9-69, Cl. 174-87.

McDonald, Henry S.: *See*—
Mathews, Max V.; and McDonald, Henry S.,3,422,419.

McDonald, James A., to Radio Corporation of America. Temperature compensation of deflection circuits. 3,428,854, 2-18-69, Cl. 315-27.

McDonald, James A., to Radio Corporation of America. Transistor deflection control arrangements. 3,428,855, 2-18-69, Cl. 315-27.

McDonald, James A., to Motorola, Inc. Detector system using blanking. 3,462,691, 8-19-69, Cl. 325-475.

McDonald, James A.; and Beck, John Brewer, to Radio Corporation of America. Transistor deflection circuit with clamper means. 3,424,941, 1-28-69, Cl. 315-27.

McDonald, James A.; and Wilmarth, Paul C., to Radio Corporation of America. Stabilization of television deflection circuits. 3,441,790, 4-29-69, Cl. 315-27.

McDonald, James Alexander, to Radio Corporation of America. Stabilization of television deflection circuits. 3,434,000, 3-18-69, Cl. 315-27.

McDonald, James F.: *See*—
Muller, Robert E.; Godsted, Kent B.; Patarini, Leon M.; and McDonald, James F.,3,443,726.

McDonald, John J., to Talcott, James, Inc. Kicker mechanism for printing machines. 3,486,426, 12-30-69, Cl. 93-93.

Mc Donald, John K., to Hyster Company. Method and apparatus for compacting soil. 3,478,656, 11-18-69, Cl. 94-48.

McDonald, John W., to General Motors Corporation. Locking mechanism for diecasting. 3,433,292, 3-18-69, Cl. 164-343.
McDonald, Joseph N.: *See—*
Davis, Paul; and McDonald, Joseph N.,3,437,253.
McDonald Products Corporation: *See—*
Vevirit, James V.; and Ihlenfeld, Francis J., 3,456,832.
Vevirit, James V.; Ihlenfeld, Francis J.; and Beil, Valentin E., 3,481,506.
McDonald Quentin H. Portable baby chair. 3,427,069, 2-11-69, Cl. 297-153.
Mc Donald, Robert A.: *See—*
Huffman, Tommie R.; Ehlenberger, Gary G.; and Mc Donald, Robert A.,3,442,725.
McDonald Robert E.; Reimann, George A.; and Patterson, Fred H., to United States of America, Atomic Energy Commission. Protective cladding and lubricant for mechanically deformable reactive metals. 3,429,158, 2-25-69, Cl. 72-47.
McDonald, Robert J. Handle for ski poles and the like. 3,451,688, 6-24-69, Cl. 280-11.37
McDonald, Robert L.: *See—*
Lamboy, James P.; and McDonald, Robert L.,3,454,352.
McDonald, Thomas M.: *See—*
Morris, Alton R.; and McDonald, Thomas M.,3,473,091.
Murphy, Robert M.; Holland, John W.; and McDonald, Thomas M.,3,440,429.
McDonald, William G.: *See—*
Fessenden, John R.; and McDonald, William G.,3,438,485.
McDonald, William Hugh. Portable Woodruff keyway cutter. 3,431,821, 3-11-69, Cl. 90-12.
McDonald, William J.; Bynum, Edward B., Jr.; and Cronquist, William E., to General Electric Company. Digital control for mine hoist system. 3,425,515, 2-4-69, Cl. 187-29.
McDonald, William L.: *See—*
Thompson, Bernard F.; and McDonald, William L.,3,447,134.
McDonald's System, Inc.:*See—*
Martino, Louis J., 3,423,210.
Mc Donald's System, Inc.:*See—*
Weimer, Ralph E.; and Herbert, Ronald M., 3,430,815.
McDonel, Everett T.: *See—*
Hamed, Parviz; and McDonel, Everett T.,3,468,979.
McDonnell Aircraft Corporation: *See—*
Renner, Melburn C., 3,456,190.
Sargent, John C.; Blome, James C.; Tims, Walter D.; and Mills, John P., 3,475,262.
McDonnell Douglas Corporation: *See—*
Albertine, Albert W.; and Graves, John A., 3,432,197.
Arrance, Frank C.; and Berger, Carl, 3,437,580.
Arrance, Frank C.; and Berger, Carl, 3,446,668.
Arrance, Frank C.; and Berger, Carl, 3,446,669.
Ashcraft, James A., 3,486,954.
Augenstein, John G.; and Enault, Neal C., 3,441,662.
Banas, Henry C., 3,435,492.
Banas, Henry C.; McReynolds, William W.; and Smith, David A., 3,465,991.
Baumgardner, Arthur R.; Johnston, Richard P.; Martini, William R.; and White, Maurice A., 3,484,616.
Berger, Carl, 3,425,871.
Berger, Carl; and Arrance, Frank C., 3,462,314.
Berger, Carl; and Arrance, Frank C., 3,471,330.
Berger, Carl; and Arrance, Frank C., 3,476,601.
Berger, Carl, 3,476,607.
Bitterly, Jack G., 3,479,838.
Blackburn, Robert S., 3,442,487.
Breitweiser, Gary C.; and Burford, William B., III, 3,442,019.
Brenner Raymond P.; and Warren, Robert A., 3,460,792.
Brown, Raymond E., 3,449,688.
Busey, Harold M., 3,444,693.
Cannady, Samuel J.; Fisher, Donald C.; and Hamilton, Vern E., 3,449,053.
Ciszewski, Joseph F.; Hayase, Masashi; and Robinson, Norman F., 3,428,769.
Cleeves, Vincent F., 3,446,425.
Cox, John J., 3,453,533.
Crew, Orville F.; Gardner, Verl L.; and Gibson, Samuel H., 3,460,229.
Dawson, James A., 3,466,066.
Dobbs, Richard A.; and Holmes, Richard N., 3,481,427.
Drexelius, Victor W.; Lake, Edgar R.; and Schimmel, Morry L., 3,486,410.
Ginn, David L., 3,465,998.
Gluhareff, Eugene M.; and McIntyre, Robert G., 3,487,445.
Goldman, Israel, 3,460,788.
Goranson, Richard B.; and Martini, William R., 3,478,695.
Halfhill, Donald W.; and Comley, William, Jr., 3,441,728.
Hamilton, Vern E., 3,453,957.
Harrison, Ollie R., 3,486,723.
Heap, Forrest J.; and Myers, Richard A., 3,442,175.
Hill, Preston L., 3,465,412.
Hosman, James Harvey, Jr.; and Schimmel, Morry Leon, 3,484,846.
Hunt, Joseph M., 3,474,559.
Hurtner, Thomas A.; and Miller, Charles H., Jr., 3,486,204.
Husmann, Robert A., 3,456,976.
Jensen, Darwin P., 3,423,226.
Jensen, Darwin P., 3,437,507.
Judd, Ronald I., 3,460,791.
King, Walter B., 3,472,419.
Krucoff, Darwin, 3,445,757.
Lang, William C., 3,468,766.
Libby, Willard F., 3,465,153.
Magda, Joseph A.; and Schwab, Bruce B., 3,448,621.
McIntire, Kenneth D., Jr.; and Wallace, Bruce W., 3,426,816.
McIntyre, Robert G., 3,438,601.
McIntyre, Robert G.; Ryer, Dudley A., Jr.; and Wilfert, Martin E., 3,481,568.
Miltenberger, Kenneth L., 3,451,247.
Moreland, William R.; and Phillips, Alonzo W., 3,428,795.
Myers, Richard A., 3,420,089.
Nail, Donald H., 3,432,436.
Nail, Donald H., 3,432,437.
Nail, Donald H., 3,468,802.
Neff, Charles W.; and Huntsman, Raleigh L., 3,469,730.
Neuse, Eberhard W., 3,437,634.
Neuse, Eberhard W.; and Koda, Kazuko, 3,437,644.
Ostroff, Harold H.; and Toney, Ernest W., 3,420,060.
Perkinson, Robert E.; and Borrok, Martin J., 3,456,256.
Pfaffenberger, Richard T.; and Van Horik, Leonard R., 3,460,232.
Pfaffenberger, Richard T.; and Van Horik, Leonard R., 3,460,233.
Poulton, Curt A.; and Lovellette, Cline W., 3,487,194.
Rosenbaum, Fred J., 3,448,379.
Savage, Robert J.; and Smith, Richard V., 3,483,567.
Sebern, Richard C., 3,439,321.
Speakman, Eugene R., 3,434,327.
Warner, Henry B., 3,425,004.
Warren, Robert A.; and Spira, Bernard, 3,435,938.
Weise, Carl A., 3,460,762.
Welzen, Joseph A., 3,438,599.
White, William J., 3,424,519.
McDonnell, Edward: *See—*
Fain, Jacob M.; and McDonnell, Edward,3,433,750.
McDonnell, Gerald F. Apparatus for controlling the ripening of bananas. 3,459,116, 8-5-69, Cl. 99-239.
McDonnell, John E. Squeeze bottle dispenser. 3,474,936, 10-28-69, Cl. 222-211.
McDonnell, John L.: *See—*
Berger, Victor M.; and McDonnell, John L.,3,443,063.
McDonnell, Marion F. Apparatus for assembling gratings. 3,427,701, 2-18-69, Cl. 29-200.
McDonnell, Robert William; and Schaafsma, Bernard Richard, to Colgate-Palmolive Company. Gelatin dessert mix tablet and process. 3,445,242, 5-20-69, Cl. 99-130.
McDonnell, Roger K., to Houston Sports Association, Inc. Turf handling apparatus. 3,481,556, 12-2-69, Cl. 242-86.52
McDonnell, Roger P.: *See—*
Glavis, Frank J.; Clemens, David H.; and McDonnell, Roger P.,3,442,799.
McDonnell, Thomas M., 1/2 to Farina, John. Fountain attachment for faucets. 3,443,753, 5-13-69, Cl. 239-27.
McDonough, James O.: *See—*
Forrester, Jay W.; Pease, William M.; McDonough, James O.; and Susskind, Alfred K.,3,431,478.
McDonough, Leslie Marvin, du Pont de Nemours, E. I., and Company. Crystalline block polyester-polycarbonates. 3,426,100, 2-4-69, Cl. 260-860.
McDonough, Thomas F.: *See—*
Gaubis, Leonard L.; and McDonough, Thomas F.,3,439,745.
McDougall, Franklin M., to Standard Machine & Manufacturing Company. Foam generator. 3,430,865, 3-4-69, Cl. 239-427.5
McDougall, Lee A.; and Brooks, Fred A., Jr., to Esso Production Research Company. Method for completing wells to prevent paraffin deposits. 3,456,735, 7-22-69, Cl. 166-304.
McDougall, Natt, Jr. Golf-baseball game apparatus. 3,476,076, 11-4-69, Cl. 116-120.
McDowall, Charles J., and: *See—*
Dixon, John K.; Addie, Albert N.; McDowall, Charles J., and; and Oestrike, Wilfred C.,3,455,107.
McDowell, Alfred W.: *See—*
Paden, Harrell W.; Carr, Hullet C.; and McDowell, Alfred W.,3,449,106.
McDowell, Earle B., to General Electric Company. Differential light responsive circuits with a solar cell connected between the inputs of the amplifiers. 3,430,106, 2-25-69, Cl. 317-130.
McDowell, Earle B.: *See—*
Campbell, Rex C.; and McDowell, Earle B.,3,428,877.
Caulier, Paul W.; and McDowell, Earle B.,3,436,608.
McDowell, Francis C., to General Electric Company. Molding hollow articles. 3,439,079, 4-15-69, Cl. 264-102.
McDowell, Hunter L., to S-F-D Laboratories, Inc. Mixed line magnetron circuits having strapped sections and tubes using same. 3,445,718, 5-20-69, Cl. 315-39.3

McDowell, John R.: *See—*
Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L.,3,449,093.
Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L.,3,449,094.
McDowell Manufacturing Company: *See—*
Frishof, Henry, 3,485,515.
Rickard, Clyde E., 3,461,544.
Rickard, Clyde E., 3,471,173.
McDowell, Wallace. Wall construction and brick spacer arrangement. 3,485,003, 12-23-69, Cl. 52-415.
McDowell-Wellman Engineering Company: *See—*
Ban, Thomas E., 3,431,684.
Ban, Thomas E., 3,433,859.
Ban, Thomas E., 3,441,480.
Ban, Thomas E., 3,470,275.
Hamilton, George M., 3,454,382.
Ludwig, Carl, 3,432,024.
Ludwig, Carl, 3,432,043.
Sebold, Otto E., 3,461,580.
McDuffie, John C., Jr., to Esso Production Research Company. Method and apparatus for perforating in wells. 3,426,850, 2-11-69, Cl. 166-255.
McDurmont, Walter R.: *See—*
Reid, Laurie M.; Ferguson, James V.; and McDurmont, Walter R.,3,466,844.
McEachern, Irvin D., deceased0 (by McEachern, William T., executor). Stalk pick-up apparatus. 3,425,201, 2-4-69, Cl. 56-314.
McEachern, William T.: *See—*
McEachern, Irvin D.,3,425,201.
McEathron, Gareld R., to Tenneco Inc. Engine-compressor control system and method. 3,486,685, 12-30-69, Cl. 230-21.
McElhaney, Daniel M., Jr.: *See—*
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F.,3,426,191.
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F.,3,436,543.
McElmury, Donald E.; and Fischer, August C., Jr., to Corn Products Company. Single ungelatinized starch-component-corrugating adhesive. 3,487,033, 12-30-69, Cl. 260-17.3
McElro, Russell A., to Electrohome Limited. Spherical bearing assembly. 3,467,452, 9-16-69, Cl. 308-26.
McElroy, Howard J.: *See—*
Bautz, Frederick H.; and McElroy, Howard J.,3,432,042.
McElroy, Howard J., to Verson Allsteel Press Company. Transfer assembly for a press. 3,430,779, 3-4-69, Cl. 214-1.
McElroy, Philip W. Concrete conveying apparatus. 3,459,222, 8-5-69, Cl. 137-615.
McElroy, Philip W. Aggregate pumping apparatus. 3,476,057, 11-4-69, Cl. 103-167.
McElroy, Russell A., to Dominion Electrohome Industries Limited. Laminations and magnetic care for motor stators and transformers. 3,443,137, 5-6-69, Cl. 310-216.
McElroy, Wilbur R.: *See—*
Houghton, Russell M.; and McElroy, Wilbur R.,3,455,855.
McElwain, John C., to North American Rockwell Corporation. Quick detachable coupling. 3,480,310, 11-25-69, Cl. 287-119.
McElwee, Lorin A.; Cordray, Roy E.; and Greene, George J., Jr., to UGC Instruments, Inc. Heater. 3,439,161, 4-15-69, Cl. 246-428.
McElya, Fred H.; and Cunningham, Robert A., to Hughes Tool Company. Specially shaped inserts for compact rock bits, and rolling cutters and rock bits using such inserts. 3,442,342, 5-6-69, Cl. 175-374.
McEniry, Thomas E., Jr.: *See—*
Alexander, William J.; Murphy, Charles F.; and McEniry, Thomas E., Jr.,3,451,998.
McEowen, James R.: *See—*
Lacey, Joseph C., III; and McEowen, James R.,3,453,396.
McEuen, John M.: *See—*
Breckoff, Walter E.; and McEuen, John M.,3,424,813.
McEver, Robert M., Jr., to Schlumberger Technology Corporation. Valve system for a well packer. 3,433,301, 3-18-69, Cl. 166-128.
McEver, Robert M., Jr., to Schlumberger Technology Corporation. Valve system for a well packer. 3,483,922, 12-16-69, Cl. 166-226.
McEvoy, James E.: *See—*
Cornelius, Edward B.; McEvoy, James E.; and Mills, George Alexander,3,455,842.
McEvoy, James E., to Air Products and Chemicals, Inc. Contact masses containing zeolite. 3,450,645, 6-17-69, Cl. 252-455.
Lapides, Jules S.; and McEvoy, James E.,3,458,454.
McEvoy, John C., to Burroughs Corporation. Start-stop logical switching system. 3,428,830, 2-18-69, Cl. 307-247.
McEvoy, William J. Electromagnetic surveillance system. 3,449,749, 6-10-69, Cl. 343-113.
McEwan, Gilbert J.: *See—*
Alul, Husni R.; and McEwan, Gilbert J.,3,483,262.
Hilton, Thomas B.; and McEwan, Gilbert J.,3,444,086.
Mc Ewan, Keith John Bruce: *See—*
Hayward, Brian Phillip; Mc Ewan, Keith John Bruce; Foster, Robert Thomas; and Hoare, Martin John,3,441,448.
McEwan, William S.; and La Rocca, Edward W., to United States of America, Navy. Explosive composition containing aluminum, potassium perchlorate, and sulfur or red phosphorus. 3,437,534, 4-8-69, Cl. 149-30.
McEwen, Cassius R., to Beckman Instruments, Inc. Apparatus and articles for increasing the rate of particle separation and removal. 3,456,876, 7-22-69, Cl. 233-26.
McFadden, David B.: *See—*
Whiting, Harold E.; Karch, Walter C.; and McFadden, David B.,3,422,317.
McFadden, Edward J., to Jackson, Byron, Inc. Fluid conductor means for hook mounted elevator. 3,479,062, 11-18-69, Cl. 285-98.
McFadden, James A., to Minnesota Mining and Manufacturing Company. Fluorocarbon polymer release coating. 3,473,952, 10-21-69, Cl. 117-75.
McFadden, Joseph T. Plant puller. 3,463,244, 8-26-69, Cl. 172-378.
McFadden, Russell T.: *See—*
Cramm, Russell H.; and McFadden, Russell T.,3,440,232.
McFadden, Thomas F.; and Schueler, Theodore A., 1/3 to Brown, Samuel E. Chemically preserved fermented malt beverages. 3,440,056, 4-22-69, Cl. 99-48.
McFadden, Thomas F.; and Schueler, Theodore A., 1/3 to Brown, Samuel E. Fermented malt beverages chemically preserved. 3,440,057, 4-22-69, Cl. 99-48.
McFadyen, Robert J.: *See—*
Korzekwa, Samuel M.; McFadyen, Robert J.; and Carp, Gerald,3,483,559.
McFall, Albert: *See—*
Webb, John; Gatley, John Andrew; and McFall, Albert,3,453,867.
McFall, Robert B.: *See—*
Meyer, August K.; and McFall, Robert B.,3,461,662.
McFarland, Clyde E.: *See—*
Case, Forrest N.; Mackey, Thomas S.; and McFarland, Clyde E.,3,431,328.
McFarland, Donald L.; and Robinson, Glen, to Westinghouse Electric Corporation, mesne. Steaming and pressing device. 3,439,437, 4-22-69, Cl. 38-71.
McFarland, James W.: *See—*
Austin, William C.; Conover, Lloyd H.; McFarland, James W.; and Morgan, Derek H.,3,458,633.
McFarland, James W., to Pfizer, Chas., & Co., Inc. Thienylalanine. 3,476,768, 11-4-69, Cl. 260-332.2
McFarland, Philip J., to DASA Corporation. Coupling unit for telecommunications system. 3,452,160, 6-24-69, Cl. 179-90.
McFarland, Wilmer H., to United States of America, Air Force. System for synchronizing a plurality of trans- mitters. 3,465,338, 9-2-69, Cl. 343-17.1
McFarlane, Ross A., to Bell Telephone Laboratories, Incorporated. Nontranslating variable output coupler for optical masers. 3,448,404, 6-3-69, Cl. 331-94.5
McFarlin, Richard F.; and Brown, Donald E., to USS Agri-Chemicals Inc., mesne. Ammonium nitrate stabilization. 3,428,418, 2-18-69, Cl. 23-103.
McFarlin, Richard F.; and Satterwhite, William A., to Armour Agricultural Chemical Company, mense. Spray concentration of wet process orthophosphoric acid. 3,423,173, 1-21-69, Cl. 23-165.
McFaul, Gordon P.: *See—*
Schultz, Frederick C.; McFaul, Gordon P.; and Lim, Franklin,3,421,982.
Mc Fee, James H.: *See—*
Buchsbaum, Solomon J.; Mc Fee, James H.; and Tien, Ping K.,3,457,417.
McFerrin, William D.; and Nelson, Harve P. Directional charge explosive device. 3,477,372, 11-11-69, Cl. 102-24.
McGahee, Welbourne D., 1/4 to Maddux, William R., and 1/4 to Rathmann, Jim. Fluid tank with dump valve. 3,466,672, 9-16-69, Cl. 4-41.
McGall, Lloyd A., to Ruby Industries, Inc., mesne. Reciprocal screeds for finishing concrete. 3,435,740, 4-1-69, Cl. 94-45.
McGann, John J., Jr. Seating attachment for land vehicles. 3,469,355, 9-30-69, Cl. 52-8.
McGann, Rodney, to Texaco Inc., mesne. Heat exchanger. 3,477,505, 11-11-69, Cl. 165-164.
McGara, Homer J.; and Spang, Edward B., to Sheller-Globe Corporation. Strip stock feed mechanism. 3,444,768, 5-20-69, Cl. 83-238.
McGarry, Russell C. Motor vehicle camper with elevating roof. 3,437,372, 4-8-69, Cl. 296-23.
McGarvey, Jarvis M., to Carborundum Company, The. Abrasive belts and method of making same. 3,427,765, 2-18-69, Cl. 51-399.
McGary, Charles W., Jr.: *See—*
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr.,3,428,612.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr.,3,472,796.
McGary, Robert L., to Furnas Electric Company. Magnetic contactor with special supporting frame. 3,467,921, 9-16-69, Cl. 335-132.

McGaughey, Raymond L.: *See—*
Schroeppel, John H.; and McGaughey, Raymond L.,3,435,184.
McGavern, Sanford A.; and Ward, Wiliam K., to Wallace-Murray Corporation. Tuned vibration damper. 3,440,899, 4-29-69, Cl. 74-574.
Mc Geachy, Donald E.: *See—*
Doig, George; and Mc Geachy, Donald E.,3,478,497.
McGean, Thomas J.; and Nathanson, Daniel, to Bell Telephone Laboratories, Incorporated. Cable manufacturing. 3,439,142, 4-15-69, Cl. 219-9.5
McGee, Andrew J., Jr. Fire-resistant structural members for buildings. 3,464,172, 9-2-69, Cl. 52-168.
McGee, Arthur L., to FMC Corporation. Sheet patching machine. 3,446,257, 5-27-69, Cl. 144-2.
McGee, Arthur L., to FMC Corporation. Apparatus for harvesting fruit growing on trees. 3,448,567, 6-10-69, Cl. 56-328.
McGee, Arthur L., to FMC Corporation. Reinforced container. 3,462,063, 8-19-69, Cl. 229-14.
McGee, Arthur L.; and Irving, Donald William, to FMC Corporation. Scanner lockout mechanism. 3,446,255, 5-27-69, Cl. 144-2.
McGee, Arthur L.: *See—*
Vandersyde, Francis E.; Roberts, Thomas E., Jr.; and McGee, Arthur L.,3,452,790.
Mc Gee, James Dwyer, to National Research Development Corporation. Photoelectronic image detecting devices. 3,470,380, 9-30-69, Cl. 250-213.
McGee, James Dwyer; Beesley, John; and Berg, Anthony David, to National Research Development Corporation. Electron stream transmission device. 3,479,516, 11-18-69, Cl. 250-213.
McGee, John K.: *See—*
Cours, Donald V.; McGee, John K.; and Lafferty, Harold L.,3,462,821.
McGee, John K., to Giddings & Lewis, Inc. Record reading system for simultaneous control of a plurality of devices. 3,439,346, 4-15-69, Cl. 340-172.5
McGee, Lawrence, to United Steel Companies Limited, The. Electric arc furnaces. 3,483,300, 12-9-69, Cl. 13-9.
McGee, Roger J.; and Metz, Ralph J., to Westinghouse Electric Corporation. Signal translation system. 3,474,342, 10-21-69, Cl. 325-473.
McGee, Sherwood W.: *See—*
Andreotti, Eugene R.; and McGee, Sherwood W.,3,459,547.
McGee, Sherwood W.; and Zoiss, Melvin H., to IIT Research Institute. Method of making gradated fiber metal structures. 3,440,708, 4-29-69, Cl. 29-419.
McGeeney, William Stone, to United Engineering and Foundry Company. Mold structure leveling device. 3,434,528, 3-25-69, Cl. 164-339.
McGehee, George: *See—*
Ely, Robert G., 3,456,810.
McGhee, James E.: *See—*
Evans, John S., Jr.; and McGhee, James E.,3,451,523.
McGhee, John D., to Du Pont de Nemours, E. I., and Company. Thermocouple reference junction compensating circuits. 3,461,380, 8-12-69, Cl. 323-68.
McGhee, John D.: *See—*
Huey, Abram D., III; and McGhee, John D.,3,459,932.
McGill, Alfred T.: *See—*
McGill, Daniel F.; and McGill, Alfred T.,3,478,541.
Mc Gill, Charles H., to Monsanto Company. Control of dimensions of newly-opened bales of acrylic staple fibers. 3,479,747, 11-25-69, Cl. 34-22.
McGill, Daniel F.; and McGill, Alfred T. Roller bearing splines. 3,478,541, 11-18-69, Cl. 64-23.7
McGill, Howard L., to Schlumberger Technology Corporation. Well tool with load-free pivot connections. 3,429,595, 2-25-69, Cl. 285-320.
McGill, Howard L., to Schlumberger Technology Corporation. Well tool clutch system. 3,470,951, 10-7-69, Cl. 166-237.
McGill, John N., to Whirlpool Corporation. Storage of fresh leafy vegetables. 3,453,119, 7-1-69, Cl. 99-154.
McGill, Joseph L., to Leeds & Northrup Company. Multiple-decade impedance arrangement with associated dial means for direct readout. 3,443,221, 5-6-69, Cl. 324-63.
McGill Manufacturing Company, Inc.: *See—*
Osika, Thomas F., 3,482,064.
Smith, Richard J., 3,449,029.
McGill, Robert W., to Meyer, Geo. J., Manufacturing Co. Can feeding mechanism. 3,441,120, 4-29-69, Cl. 198-31.
McGill, Robert W.; and Hardee, Walter D., to Meyer, Geo. J., Manufacturing Co. Package assembly film folding collar. 3,431,831, 3-11-69, Cl. 93-82.
McGill, Robert; Talarovich, Thomas J.; and Stowell, Finch, said Stowell assor to United States of America, Army. Foamed-in-bags packaging. 3,485,347, 12-23-69, Cl. 206-46.
McGill, Thomas Alan; and Hoffman, John George, Jr., to Gillette Company, The. Strip segmenting method. 3,443,731, 5-13-69, Cl. 225-1.
McGillen, William D.: *See—*
Brunson, Marion O.; and McGillen, William D.,3,484,403.
McGinley, James J., to Rollers By Baker, Inc. Construction for paint roller. 3,447,184, 6-3-69, Cl. 15-230.11
McGinley, William L. Hamburger broiler. 3,425,341, 2-4-69, Cl. 99-423.
McGinnis, Robert W.; and Moore, Robert G., Jr., to Bendix Corporation, The. Fuel control apparatus including a pneumatic all speed governor for controlling the operation of a combustion engine. 3,438,199, 4-15-69, Cl. 60-39.28
McGinty, William K.; and Procknow, Joseph J., to Thomas Industries, Inc. Lighting fixture. 3,422,261, 1-14-69, Cl. 240-78.
McGivern, James F., Jr., to United Aircraft Corporation. Minimization of anode passivation in electroplating processes. 3,450,605, 6-17-69, Cl. 204-14.
McGivern, Robert F. Filter bottoms. 3,456,804, 7-22-69, Cl. 210-292.
McGlamery, Benjamin L., to Stromberg-Carlson Corporation. Flying spot scanner employing fiber optics. 3,470,319, 9-30-69, Cl. 178-7.1
McGlathery, Robert M.: *See—*
Sylvester, Kermit H.; Franz, William E.; and McGlathery, Robert M.,3,449,572.
McGlenn, Donald B.: *See—*
La Favor, Jack E.; and McGlenn, Donald B.,3,473,247.
McGlinchey, Arthur E. Apparatus for stacking trusses. 3,437,216, 4-8-69, Cl. 214-7.
McGlinchey, Arthur E., to Idaco Company, a division of Idaco Engineering and Equipment. Truss assembling machine. 3,460,465, 8-12-69, Cl. 100-100.
McGlinchey, Arthur E. Apparatus for fabricating wooden structures. 3,464,348, 9-2-69, Cl. 100-210.
McGoff, Miles J.; and Heckel, Verne K., to Mine Safety Appliances Company. Oxygen generator. 3,436,191, 4-1-69, Cl. 23-281.
McGoff, Miles J.; Mausteller, John W.; and Staub, Charles H., to MSA Research Corp. Air regeneration unit. 3,443,906, 5-13-69, Cl. 23-281.
McGonigal, Samuel, to Barcro-Olympic Stranders Limited. Stranding machines. 3,469,386, 9-30-69, Cl. 57-58.36
McGonigal, William E., to Du Pont de Nemours, E. I., and Company. Novel tetrahydro-2-triazin-2[1H]-ones. 3,484,439, 12-16-69, Cl. 260-248.
McGoogan, George D.; and Jones, John P., to McKay Machine Company, The. Methods of and apparatus for manipulating rolls of multiple roll apparatus. 3,425,256, 2-4-69, Cl. 72-239.
McGough, Gerald B., to Automatic Electric Laboratories, Inc. Push-button switch activated by a slide with a plurality of toggle joints and cams. 3,472,974, 10-14-69, Cl. 200-5.
McGovern, John P. Valve assembly. 3,481,579, 12-2-69, Cl. 251-148.
McGovern, Joseph P.: *See—*
Jarowenko, Wadym; and McGovern, Joseph P.,3,454,411.
McGovern, Terrence P.: *See—*
Eddy, Gaines W.; Davis, Harry G.; Beroza, Morton; and McGovern, Terrence P.,3,485,868.
McGovney, Clarence L.: *See—*
Clayton, Robert E.; and McGovney, Clarence L.,3,460,978.
McGowan, Jared M.: *See—*
Townsend, Charles L.; and McGowan, Jared M.,3,420,965.
McGowan, John A.: *See—*
Brown, Daniel M.; and McGowan, John A.,3,461,591.
McGowan, Kenneth G.: *See—*
McAlpine, Charles H.; and McGowan, Kenneth G.,3,444,920.
McGowan, Marvin E.: *See—*
Little, Steven M.; Shefler, Sydney; and McGowan, Marvin E.,3,460,507.
McGowan, Patrick G.: *See—*
Duckworth, Leonard J.; Pettinga, Paul V.; and McGowan, Patrick G.,3,471,299.
McGowan, Patrick G.; and Mauger, Robert E., to Gerber Products Company. Aseptic pressure and/or vacuum measuring device. 3,422,679, 1-21-69, Cl. 73-395.
Mc Gowan, Raymond J.: *See—*
Foglia, Andrew J.; Stancell, Arnold F.; and Mc Gowan, Raymond J.,3,440,238.
McGowan, Thomas L. Swimming appliance. 3,440,994, 4-29-69, Cl. 115-22.2
McGrail, John F. Beverage maker. 3,442,199, 5-6-69, Cl. 99-283.
McGrail, Patrick T.: *See—*
Clachan, Margaret L.; McGrail, Patrick T.; Turner, Richard G.; and Shephard, Basil R.,3,475,203.
Clachan, Margaret L.; McGrail, Patrick Terrence; and Shephard, Basil R.,3,446,651.
McGrath, Brian Patrick: *See—*
Turner, Leonard; and McGrath, Brian Patrick,3,444,096.
McGrath, Doyle Wayne. Filter unit for air systems. 3,426,508, 2-11-69, Cl. 55-210.
McGrath, Earle, to ACF Industries, Incorporated. Means for automatically operating bottom hopper discharge doors during travel of railway cars. 3,459,316, 8-5-69, Cl. 214-63.

McGrath, Earle, to ACF Industries, Incorporated. Selectively actuate clutch controlled toggle actuated railway hopper car doors. 3,483,830, 12t16-69, Cl. 105-280.
McGrath, Frank, to Lusteroid Container Company, Inc. Plastic tube construction. 3,448,890, 6-10-69, Cl. 220-67.
McGrath, John J., to Jackson, Byron, Inc. Composite marine bearing. 3,455,613, 7-15-69, Cl. 308-26.
McGrath, John J., to Jackson, Byron, Inc. Marine bearing stave. 3,455,619, 7-15-69, Cl. 308-238.
McGrath, Joseph J.; and Spilners, Ilgvars J., to Gulf Research & Development Company. Dicyclopentadienyliron-phthalaldehyde condensation product. 3,448,082, 6-3-69, Cl. 260-67.
McGrath, Joseph J.; and Tempalski, Chester S., to Gulf Research & Development Company. Haloalkyl esters of benzophenone tetracarboxylic acid. 3,478,087, 11-11-69, Cl. 260-475.
McGrath, Robert A.: *See—*
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd,3,420,083.
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd,3,423,254.
McGrath, William L., to Carrier Corporation. Air conditioning apparatus. 3,429,367, 2-25-69, Cl. 165-26.
McGrath, William L., to Carrier Corporation. Apparatus for controlling refrigerant flow. 3,440,835, 4-29-69, Cl. 62-505.
McGrath, William L., to Carrier Corporation. Flash distillation with condensed refrigerant as heat exchanger. 3,461,460, 8-12-69, Cl. 203-11.
McGrath, William L., to Carrier Corporation. Method and apparatus for humidification. 3,464,401, 9-2-69, Cl. 126-113.
McGrath, William L., to Carrier Corporation. Flash distillation apparatus with refrigerant heat exchange circuits. 3,486,985, 12-30-69, Cl. 202-173.
McGraw, Donald R.; and Graeme, Jerald G., to Burr-Brown Research Corporation. Differential D.C. amplifier. 3,440,554, 4-22-69, Cl. 330-30.
McGraw, Leslie D., to National Steel Corporation, mesne. Organic aluminum complexes. 3,448,134, 6-3-69, Cl. 260-448.
McGraw, Leslie D.; and Reif, Robert B., to National Steel Corporation. Method of preparing metal coated metallic substrates. 3,485,654, 12-23-69, Cl. 117-17.
Mc Graw, Leslie D.: *See—*
Francis Peter S.; and Mc Graw, Leslie D.,3,466,232.
McGraw, Thomas F.; and Frank, Richard R., to United States of America, Air Force. Latitude-longitude computer. 3,464,122, 9-2-69, Cl. 35-2.
McGraw-Edison Company: *See—*
Bufkin, Dale E.; Murphy, Willard G.; and Yount, Ronald E., 3,425,336.
Clark, Philip B., 3,427,447.
Fister, Aloysius J., 3,460,086.
Fremont, Robert S., 3,478,455.
Fromm, Marvin M.; and Gigante, Mario, 3,454,805.
Grieger, Philip F.; and Jaffe, Sol S., 3,424,617.
Hawley, Paul A.; and Eikermann, Jerry G., 3,443,479.
Hitzeroth, Franklin C., 3,464,586.
Hitzeroth, Franklin C.; and Walitzer, David B., 3,482,727.
Hoisve, Harold V.; and Strike, Nicholas L., 3,421,668.
Hoisve, Harold V.; and Filho, Francisco Muniz, 3,484,965.
Hutchinson, Joseph; and Casey, Lloyd, 3,485,567.
Iltis, Rumult, 3,485,492.
Jablonski, Edward R., 3,435,202.
Kershaw, Stanley S., Jr., 3,448,343.
Kershaw, Stanley S., Jr., 3,484,863.
Majewski, John V., 3,431,539.
Meyers, Ralph C., 3,483,453.
Mikulecky, Harvey W., 3,437,971.
Mikulecky, Harvey W., 3,483,502.
Morris, Walter George, 3,485,659.
Myers, Wayne E., 3,429,063.
Paulus, Jerry Lee, 3,435,291.
Petre, John R., 3,470,717.
Phillips, Davis M., 3,450,827.
Robinson, Alfred J.; and Fox, Walter A., 3,464,036.
Roen, Ralph M., 3,453,726.
Romansky, John, 3,464,602.
Roods, John F., 3,443,613.
Roods, John F.; and Buschman, Jerome A., 3,484,917.
Sadler, Fred S., 3,475,546.
Sankey, Edward L.; and Stoelting, Herman O., 3,435,397.
Schmidt, Jacob E., 3,463,672.
Sherwood, Norman W., 3,471,133.
Steinmayer, Alwin G., 3,482,108.
Stewart, Jack D., 3,471,067.
Strike, Nicholas L.; Thun, Richard G.; and Radford, David L., 3,464,588.
Trelc, William F.; and Petri, Albert J., 3,443,272.
Urani, Angelo, 3,437,972.
Walker, Richard K., 3,482,192.
Weinfurt, William J., 3,463,932.
Weir, Henry John : Englandd, 3,421,756.
Whitlock, Bruce N.; and Whitney, William G., 3,424,872.
Winter, Floyd E.; and Heaberlin, Paul L., 3,465,469.
Withers, John S., 3,453,580.
Wurdack, Albert C., 3,450,945.
Mc Greary, Charles H., to General Motors Corporation. Torsional vibration damper. 3,477,311, 11-11-69, Cl. 74-574.
Mc Gregor, Donald Neil, to Bristol-Myers Company. 6-(α-3-Allophanamidophenylacetamido) and 6-(α-3- allophanamidothienylacetamido)-penicillanic acids. 3,483,188, 12-9-69, Cl. 260-239.1
McGregor, Donald T.: *See—*
Lodjic, Carl L.; and McGregor, Donald T.,3,428,154.
Mc Gregor, Donald T.; and Lodjic, Carl L., to Autoset Corporation. Automatic brake slack adjuster. 3,482,663, 12-9-69, Cl. 188-196.
McGregor, James D.; and Corder, Richard E., to Thiokol Chemical Corporation. Cooling liners for rocket thrust nozzle. 3,460,758, 8-12-69, Cl. 239-127.1
McGregor, William A., Jr.; Gemeinhardt, Paul G.; and Gurley, Jesse Fred, to Mobay Chemical Company. Method and apparatus for preparing cellular polyurethane plastics. 3,421,932, 1-14-69, Cl. 117-105.3
McGrew, Charles B., Jr., to International Harvester Company. Sun visor retainer for automotive vehicles. 3,463,435, 8-26-69, Cl. 248-305.
McGriff, Stuart G.: *See—*
McRae, Wayne A.; Brown, Daniel L.; and McGriff, Stuart G.,3,475,122.
Parsi, Edgardo J.; and McGriff, Stuart G.,3,433,726.
McGroddy, James C.; and Nathan, Marshall I., to International Business Machines Corporation. Bulk negative conductivity semiconductor oscillator. 3,458,832, 7-29-69, Cl. 331-107.
McGuckin, Hugh G., to Eastman Kodak Company. Photographic antihalation layers. 3,434,839, 3-25-69, Cl. 96-84.
McGuckin, Melvin E., to Hamilton Company. Sealing element. 3,463,339, 8-26-69, Cl. 215-38.
McGuffie, Peter A. Line marking machines. 3,476,294, 11-4-69, Cl. 222-177.
McGuinness, Raymond H., to Honeywell Inc. Display apparatus. 3,484,647, 12-16-69, Cl. 315-22.
McGuire, Douglas: *See—*
Boodman, Emil R.; McGuire, Douglas; and Wilce, Emerson B.,3,464,108.
McGuire, Earl J., to Dravo Corporation. Wall construction. 3,435,619, 4-1-69, Cl. 61-41.
McGuire, George E., to Systems, Inc. Foldable toe guard for dockboards. 3,456,274, 7-22-69, Cl. 14-71.
McGuire, James F.: *See—*
McGuire, James F.; and Babbitt, Norman S., 3,439,281.
McGuire, James F.; and Babbitt, Norman S., to McGuire, James F. Haertsch, Oscar C., Babbitt, Norman S., and Van Deusen, Jr., as co-owners. Apparatus for randomly controlling the flow of pulses from a pulse source to plurality of output lines. 3,439,281, 4-15-69, Cl. 328-153.
McGuire, James M.: *See—*
Bromer, William W.; Hoehn, Marvin M.; and McGuire, James M.,3,467,751.
Probst, Gerald W.; Hoehn, Marvin M.; and McGuire, James M.,3,467,750.
McGuire, John N.; and Lally, Kenneth P., to Mid-Continent Manufacturing Co. Apparatus producing radiant energy at an exit face from stimulation of a luminophor through the phenomenon of dielectric trapping. 3,484,607, 12-16-69, Cl. 250-71.
McGuire, John V., to Cheshire Incorporated. Conveying and stacking system. 3,459,300, 8-5-69, Cl. 209-73.
Mc Guire, Joseph C.; and Wohlberg, Cornel, to United States of America, Atomic Energy Commission. Carbide deposition on tantalum. 3,421,953, 1-14-69, Cl. 148-20.3
McGuire, Richard: *See—*
Sterns, Robert B.; and McGuire, Richard,3,466,535.
McGuire, Robert J.: *See—*
Fareri, Elizabeth L.; McGuire, Robert J.; and Strange, Harold O.,3,433,607.
Mc Guire, Robert L., to Case, J. I., Company. Tractor control structure. 3,448,821, 6-10-69, Cl. 180-90.
McGunigle, Richard Donald, to Electra Scientific Corporation. Wide band accelerometer. 3,453,457, , Cl. 310-8.4
McHaffie, David J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,448,346.
McHale, John J., to Du Pont de Nemours, E. I., and Company. Copolyester composition. 3,436,301, 4-1-69, Cl. 161-226.
McHale, William L., to Robertshaw Controls Company. Fluid system and control therefor and method. 3,447,747, 6-3-69, Cl. 236-49.
McHale, William L., to Robertshaw Controls Company. Defrost control system using a fluid amplifier. 3,479,836, 11-25-69, Cl. 62-140.
McHale, William L.; and Sorensen, Svend E., to Robertshaw Controls Company. Valve construction having rolling diaphragm actuator means therefor. 3,448,959, 6-10-69, Cl. 251-31.
McHale, William L.: *See—*
Sorensen, Svend E.; and McHale, William L.,3,446,197.

Sorensen, Svend E.; and McHale, William L.,3,478,651.
McHardy, Kenneth Ray: *See—*
Marchant, Paul A.; and McHardy, Kenneth Ray,3,467,287.
McHarg, Robert E., to Universal Oil Products Company. Separation of pyrolysis gases. 3,446,870, 5-27-69, Cl. 260-681.5
McHattie, Earl E.: *See—*
Muska, William A.; Schacker, James C.; and McHattie, Earl E.,3,432,793.
McHattie, Robert Howard; and Greening, Peter Douglas, to General Motors Corporation. Internal combuston engine air filters. 3,450,117, 6-17-69, Cl. 123-119.
McHenry, Kenneth A.; and Amtsberg, Lester A., to Chicago Pneumatic Tool Company. Fastener driving machine. 3,466,730, 9-16-69, Cl. 29-208.
McHenry, Thomas F.: *See—*
Astheimer, Robert W.; and McHenry, Thomas F.,3,446,559.
McHenry, Thomas F., to Barnes Engineering Company. Pyroelectric radiation detector providing compensation for environmental temperature changes. 3,453,432, 7-1-69, Cl. 250-83.3
McHollan, James A.; and Borucki, Anthony J. Outlet box with clips for mounting it in a wall structure. 3,468,448, 9-23-69, Cl. 220-3.6
McHose, Andre H.: *See—*
Scherr, Robert E.; McHose, Andre H.; Campbell, Ian P.; and Bryan, Carney J.,3,448,705.
McHugh, Donald P.: *See—*
Fischer, Lee J.; Becker, Edward R.; Kutney, John T., and; and McHugh, Donald P.,3,442,471.
McHugh, James H. Integral pneumatic tire and wheel construction and method of making the same. 3,466,211, 9-9-69, Cl. 156-123.
McHugh, John P., to Humostan Corporation, The. Spray coating apparatus. 3,467,061, 9-16-69, Cl. 118-123.
McHugh, Kenneth L.: *See—*
Satterfield, Charles N.; Smith, John O.; and McHugh, Kenneth L.,3,436,268.
Mc Ilhinney, Allan E.: *See—*
Capes, Charles E.; Sutherland, John P.; and Mc Ilhinney, Allan E.,3,471,267.
McIlraith, Arthur Hamilton, to National Research Development Corporation. Charged particle analyzer using a charged particle transit time oscillator. 3,484,602, 12-16-69, Cl. 250-41.9
McIlrath, William P., to Racine Hydraulics & Machinery, Inc. Rail anchor setter. 3,438,335, 4-15-69, Cl. 104-2.
McIlvaine, Alexander. Ski lift chair stabilizer. 3,461,813, 8-19-69, Cl. 104-173.
McIlvenny, James, 1/3 to Gruber, Robert, and Simmons, Bruce. Axial tumbler cylinder lock with pick guard. 3,465,556, 9-9-69, Cl. 70-423.
McIlvin, Donald B.; and Bernard, Robert J., to USM Corporation. Shoe molding machines. 3,443,279, 5-13-69, Cl. 18-17.
McIlvried, Howard G., III: *See—*
Giannetti, Joseph P.; McIlvried, Howard G., III; and Sebulsky, Raynor T.,3,441,514.
Mc Ilvried, Howard G.: *See—*
Giannetti, Joseph P.; Mc Ilvried, Howard G.; and Sebulsky, Raynor T.,3,472,790.
McIlvried, Howard G.: *See—*
Hamilton, Harry A.; McIlvried, Howard G.; and Sebulsky, Raynor T.,3,461,064.
McInally, John A: *See—*
Leiga, Algird G.; and McInally, John A,3,453,427.
McInerney, Edwin, to Western Mining Corporation Limited. Wedge orientation device. 3,463,253, 8-26-69, Cl. 175-45.
McInerney, James R., to Sherwin-Williams Company, The. Process and composition for improving metal marking properties in polyester resin low gloss coatings. 3,436,367, 4-1-69, Cl. 260-40.
McInerney, John B.: *See—*
Whitaker, Forest J.; and McInerney, John B.,3,429,152.
McInerney Spring & Wire Company: *See—*
Tuit, John, 3,420,279.
McInnis, Andrew M., to Ballard & Associates Inc. Apparatus and method for treating swimming pool water. 3,428,559, 2-18-69, Cl. 210-60.
McInnis, Andrew M., to Associated Piping & Engineering Co. Bellows forming method and apparatus. 3,435,651, 4-1-69, Cl. 72-105.
McInnis Conveyors Limited: *See—*
Rice, Robert M., 3,457,875.
McIntire, Clifton E. Appliance adapted for use with hydraulic lifts. 3,456,809, 7-22-69, Cl. 212-8.
McIntire, Kenneth D., Jr.; and Wallace, Bruce W., to McDonnell Douglas Corporation, mesne. Fastener receptacle. 3,426,816, 2-11-69, Cl. 151-41.7
McIntire, Kenneth D., Jr.; and Wallace, Bruce W., to Douglas, McDonnell Corporation. Pallet assembly. 3,428,002, 2-18-69, Cl. 108-51.
McIntosh, Alex C. Electronic switching circuit. 3,454,839, 7-8-69, Cl. 317-148.5
McIntosh, Arthur M., to Borg-Warner Corporation. Center bearing double cardan joint. 3,429,144, 2-25-69, Cl. 64-17.
McIntosh, Euell K.; and Howse, Paul T., Jr., to Monsanto Company. Method of manufacturing a melt-spinning spinneret. 3,465,618, 9-9-69, Cl. 76-107.
McIntosh, Euell K.: *See—*
Williams, James R.; and McIntosh, Euell K.,3,457,610.
Williams, James R.; and McIntosh, Euell K.,3,483,691.
McIntosh, Harold A.; and Wagner, Edmond M., said McIntosh assor. to Robertshaw Controls Company, mesne said McIntosh assor. to Robertshaw Controls Company, mesne. Terminal construction. 3,462,316, 8-19-69, Cl. 136-230.
McIntosh, Howard H., to Thiokol Chemical Corporation. Noneroding rocket nozzle. 3,441,217, 4-29-69, Cl. 239-265.15
McIntosh, Lynden Y.: *See—*
Turner, Thomas C.; and McIntosh, Lynden Y.,3,480,320.
McIntosh, Meldon J., to Thiokol Chemical Corporation. Oxidizer recovery process. 3,451,789, 6-24-69, Cl. 23-302.
McIntosh, Richard F., to Clark Equipment Company. Method and means for adjusting and assembling lift truck uprights. 3,433,324, 3-18-69, Cl. 187-9.
McIntosh, Richard F., to Clark Equipment Company. Method and means for adjusting and assembling lift truck uprights. 3,433,325, 3-18-69, Cl. 187-9.
McIntosh, Robert B., Jr.: *See—*
Yoder, John R.; and McIntosh, Robert B., Jr.,3,435,212.
McInturff, Alfred D., to North American Rockwell Corporation. Superconductive joint. 3,453,378, 7-1-69, Cl. 174-94.
McIntyre, Alan H.; and Beards, William A., to Glynwed Screws & Fastenings Limited. Screws. 3,451,080, 6-24-69, Cl. 10-10.
McIntyre, Daniel, to Emhart Corporation. Case packing machine for tiered articles. 3,455,085, 7-15-69, Cl. 53-153.
McIntyre, Ian S.: *See—*
Abbott, Terence A.; Clachan, Margaret L.; Kennedy, David Rankine; McIntyre, Ian S.; and Shephard, Basil R.,3,447,947.
McIntyre, James Eric; Robertson, Michael Mundie; and Horsfall, Geoffrey Alan, to Imperial Chemical Industries Limited. Shaped polyamide coated with the same polyamide modified by polyalkylene oxides. 3,473,956, 10-21-69, Cl. 117-138.8
McIntyre, John S., to Dow Chemical Company, The. 3-(α-Bromoacyl)-4-hydroxycoumarin products and corresponding condensation products. 3,462,458, 8-19-69, Cl. 260-343.2
Mc Intyre, John W.: *See—*
Comey, Kenneth R., Jr.; and Durst, George,3,477,845.
McIntyre, Matthew; Goodfellow, Harry Edwin; and Jaffe, Herbert Roy, to Jervis Corporation. Remote control rearview mirror. 3,468,186, 9-23-69, Cl. 74-501.
McIntyre, Raymond David; and Woodward, Frederick W., to Ford Motor Company. Seat belt positioning mechanism. 3,424,494, 1-28-69, Cl. 297-385.
McIntyre, Robert G., to McDonnell Douglas Corporation. Air crew escape and survival system. 3,438,601, 4-15-69, Cl. 244-137.
McIntyre, Robert G.; Ryer, Dudley A., Jr.; and Wilfert, Martin E., to McDonnell Douglas Corporation. Aircraft seat ejection system. 3,481,568, 12-2-69, Cl. 244-122.
McIntyre, Robert G.: *See—*
Gluhareff, Eugene M.; and McIntyre, Robert G.,3,487,445.
McIntyre, Robert L.: *See—*
Bible, Robert E.; McIntyre, Robert L.; Scott, William F.; and Trostrud, Arville T., Jr.,3,443,076.
McIntyre, Ronald Graham: *See—*
Firth, Donald; Cunningham, Sinclair Upton; and McIntyre, Ronald Graham,3,473,440.
McIntyre, Ronald, to Klinger Manufacturing Company Limited, The. Apparatus and method for crimping yarn. 3,464,096, 9-2-69, Cl. 28-1.7
McIver, Chandler H.; Siegel, Sidney R.; and White, William W., Jr., to Corning Glass Works. Semiconductor device assembly method. 3,470,611, 10-7-69, Cl. 29-590.
McIver, Donald J.: *See—*
Scruby, Stanley R.; and McIver, Donald J.,3,464,740.
McIver, George W.; and Buie, James L., to TRW Inc. Electrode lead for semiconductor active devices. 3,475,665, 10-28-69, Cl. 317-235.
McIver, William: *See—*
Conrad, Thomas Wesley; and McIver, William,3,478,301.
McIvor, Robert A.; and Miller, Raynor K. Novel preparation of alkyl bis(2,4-dinitrophenyl) acetates. 3,437,681, 4-8-69, Cl. 260-471.
Mc Kague, James Francis: *See—*
Leone, Joseph Thomas; and Mc Kague, James Francis,3,464,821.
McKay, Alan Gordon; and Brown, Peter Thomas, to Ciba Limited. Epoxide resin compositions. 3,449,278, 6-10-69, Cl. 260-23.
McKay, David; and Kandera, Alfred G., to Carter, James B., Ltd. Electric heater. 3,470,352, 9-30-69, Cl. 219-368.
McKay, Donald Roderick: *See—*
Landucci, Louis; McKay, Donald Roderick; and Sutherland, Charles Alexander,3,484,201.
McKay, Joseph, to United States Steel Corporation. Apparatus for introducing coating metal to a vapor deposition chamber. 3,425,484, 2-4-69, Cl. 164-270.

McKay, Lawrence B., 33 1/3% to McKay, Lola M. 33 1/3% to Boswell, George T. Robbery prevention device. 3,421,460, 1-14-69, Cl. 109-11.
McKay, Lola M.: *See*—
McKay, Lawrence B., 3,421,460.
McKay Machine Company, The: *See*—
Klempay, Raymond T.; and Bandy, Kenneth L., 3,466,913.
McGoogan, George D.; and Jones, John P., 3,425,256.
McKay, Thomas L., to Whittaker Corporation, mesne. Insert driver. 3,446,101, 5-27-69, Cl. 81-53.
McKay, William R., to Alexander Manufacturing Company. Automatic-releasing cable control for harrow. 3,439,750, 4-22-69, Cl. 172-581.
McKay, William R., to Alexander Manufacturing Co. Self-tightening disc gang. 3,455,399, 7-15-69, Cl. 172-599.
McKay, William R., to Alexander Manufacturing Company. Carrier for disc harrow. 3,461,972, 8-19-69, Cl. 172-240.
McKean, Alexander L., to Phelps Dodge Copper Products Corporation. High voltage cable. 3,427,394, 2-11-69, Cl. 174-35.
McKean, Herbert B., to Potlatch Forests, Inc. Utility pole with curved, laminated wood beams. 3,462,907, 8-26-69, Cl. 52-721.
McKechnie, Ian C., to United Service Equipment Co., Inc. Storing and dispensing apparatus. 3,436,136, 4-1-69, Cl. 312-71.
McKee, Arthur G., & Company: *See*—
Archambeau, James J.; and Greskowiak, Maurice J., 3,439,816.
Greaves, Melvin J.; and Werner, Tage, 3,431,691.
Greaves, Melvin J.; Werner, Tage; and Greenwalt, Richard B., 3,432,287.
Greaves, Melvin J.; and Werner, Tage, 3,460,818.
Vest, Gaylord G., 3,455,495.
Mc Kee, Donald A., to United States of America, Atomic Energy Commission. Circuits for an electrical RMS measuring instrument. 3,434,053, 3-18-69, Cl. 324-132.
McKee, Edward S., to Eastman Kodak Company. Device for stripping and feeding strip material from a roll. 3,429,518, 2-25-69, Cl. 242-55.11
McKee, Edward S., to Eastman Kodak Company. Reel for cartridge-loading motion picture projectors. 3,486,710, 12-30-69, Cl. 242-71.88
McKee, James C.: *See*—
Chase, Richard R.; and McKee, James C.,3,431,061.
McKee, Lee C. Toboggan construction. 3,432,181, 3-11-69, Cl. 280-18.
McKee, Thomas A.: *See*—
Myers, Richard T.; McKee, Thomas A.; Spangler, Fred E.; and Wright, Kenneth L.,3,470,481.
McKee, William G. Bowling guide. 3,469,841, 9-30-69, Cl. 273-54.
McKee, William H., to United-Carr Incorporated, mesne. Wire crimping tool. 3,457,764, 7-29-69, Cl. 72-410.
McKeeman, William M.: *See*—
Barton, Robert S.; Creech, Bobby A.; Dent, Benjamin A.; Hauck, Erwin A.; and McKeeman, William M.,3,461,434.
McKeever, Bruce T., to General Electric Company. Fault tolerant addressing circuit. 3,427,599, 2-11-69, Cl. 340-173.1
McKeever, Charles Harlan; and Dohling, Jerome, to Rohm & Haas Company. Color-inhibited alcohol composition for producing plasticizer esters with improved color. 3,439,050, 4-15-69, Cl. 260-632.5
McKell, Samuel B. Adjustable blade device. 3,464,499, 9-2-69, Cl. 172-802.
McKellar, Robert L., to Dow Corning Corporation. Novel organosilicon compositions. 3,427,271, 2-11-69, Cl. 260-29.2
McKellar, Robert L., to Dow Corning Corporation. Silicone lubricant. 3,445,389, 5-20-69, Cl. 252-49.6
McKellar, Robert L.; and Musolf, Martin C. Process for reducing unsaturation in poly (oxyalkylene)polyols. 3,485,861, 12-23-69, Cl. 260-448.2
McKelvey, Andrew, Jr., to Amerline Corporation. Disc pack locking mechanism. 3,465,875, 9-9-69, Cl. 206-62.
McKelvey, Harold E.; and Jendrisak, Joseph E., to Thermoproof Glass Company. Method and apparatus for applying a bead of viscous material along the surface of a member. 3,424,836, 1-28-69, Cl. 264-251.
McKelvey, John B.; Benerito, Ruth R.; and Berni, Ralph J., to United States of America, Agriculture. Method for producing resilient cotton fabrics through partial esterification. 3,432,252, 3-11-69, Cl. 8-120.
McKelvey, John B.; Benerito, Ruth R.; Berni, Ralph J.; and Burgis, Beverly G., to United States of America, Agriculture. Ammonia-epichlorohydrin reaction products. 3,441,609, 4-29-69, Cl. 260-583.
McKelvey, John B.: *See*—
Berni, Ralph J.; Benerito, Ruth R.; and McKelvey, John B.,3,464,781.
Soignet, Donald M.; and McKelvey, John B.,3,478,033.
McKelvey, William J.: *See*—
Dougherty, Thomas F., Jr.; Mac Nutt, William J.; and McKelvey, William J.,3,476,980.
McKenica, Winfield Lewis, to Du Pont de Nemours, E. I., and Company. Process for the formation of foamable compositions. 3,485,774, 12-23-69, Cl. 260-2.5
McKenica, Winfield L.: *See*—
Makansi, Munzer; and McKenica, Winfield L.,3,485,710.
McKenna, Charles A., to Solo Cup Company. Cup dispenser with bristle retaining elements. 3,462,044, 8-19-69, Cl. 221-308.
McKenna, John R., to Rawley, David A., Jr., and Bilger, Donald E. Highway radio communications system. 3,423,681, 1-21-69, Cl. 325-129.
McKenna, Joseph V.: *See*—
Prill, Robert S.; Masel, Marvin; and McKenna, Joseph V.,3,438,026.
McKenna, Richard Phillip: *See*—
Ayres, Robert Underwood; and McKenna, Richard Phillip,3,465,689.
McKenney, James L.: *See*—
Beaulieu, Adrian A.; McKenney, James L.; Megley, James W.; and Munroe, Lawrence M.,3,422,248.
McKenzie, Donald E.: *See*—
Heredy, Laszlo A.; McKenzie, Donald E.; and Yosim, Samuel J.,3,438,722.
McKenzie, Marshall J. Exhaust gas filter system. 3,434,268, 3-25-69, Cl. 55-418.
McKenzie, Robert D.: *See*—
Packer, Louis L.; McKenzie, Robert D.; and Haley, Joseph P.,3,438,365.
McKenzie, Ross B. Grain separator. 3,425,423, 2-4-69, Cl. 130-27.
McKenzie, Thomas; and Ridley, William Charles. Cheese drainage conveyor. 3,485,377, 12-23-69, Cl. 210-383.
McKeon, Michael V. Safety harness for occupants of power driven vehicles. 3,436,094, 4-1-69, Cl. 280-150.
McKeon, Patrick E.: *See*—
Bold, Eugene R.; Krebs, Peter D.; and McKeon, Patrick E.,3,431,642.
McKeone, Joseph: *See*—
Borth, Paul; and McKeone, Joseph,3,458,371.
Borth, Paul; and McKeone, Joseph,3,458,372.
McKeough, Daniel H., to I-T-E Circuit Breaker Company. Slide valve for gas blast breakers. 3,436,505, 4-1-69, Cl. 200-148.
McKeough, Elmer L.: *See*—
Arnold, Alanson J.; McKeough, Elmer L.; Ripple, William M.; Schoeffler, Paul W.; and Smith, Herbert J.,3,448,497.
McKeown, Calvin M.: *See*—
Converse, Sherman; and McKeown, Calvin M.,3,463,690.
McKeown, Charles George, to Wellman Incandescent Furnace Company Limited. Coil annealing convector plate. 3,423,079, 1-21-69, Cl. 263-47.
Mc Keown, Daniel, to General Dynamics Corporation. Energy transfer probe having a temperature sensitive quartz crystal detector. 3,486,023, 12-23-69, Cl. 250-83.3
Mc Kern, Merrill E. Rescue aid. 3,471,854, 10-7-69, Cl. 340-366.
Mc Kernan, William R.: *See*—
Gallaro, Anthony V.; and Mc Kernan, William R.,3,463,686.
McKerracher, William: *See*—
Lott, Chancy M., 3,440,781.
McKesson, James H., to Deering Milliken Research Corporation. Discharge printing a direct dye dyed haloalkanol crosslinked cellulose fabric and creaseproofing with an aminoplast. 3,445,177, 5-20-69, Cl. 8-17.
McKesson, Lewis J., to Sanders Associates, Inc. Polarization diversity transmission system. 3,453,622, 7-1-69, Cl. 343-100.
McKevitt, Frank X.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,384.
McKewon, Thomas E.: *See*—
Geary, Daniel; McKewon, Thomas E.; Harris, Richard S.; and Bolen, Herbert L.,3,460,258.
McKibben, Horace E., to Blueberry Equipment, Inc. Vibrating contact element for plant shaking harvesting machines. 3,482,383, 12-9-69, Cl. 56-330.
McKibben, Joseph L.; Ohlsen, Gerald G.; and Stevens, Ralph R., Jr. Apparatus for the selection of metastable atoms having a predetermined polarization. 3,466,442, 9-9-69, Cl. 250-84.
McKibben, Richard K., to Southwestern Engineering Company. Vibratory separator. 3,421,623, 1-14-69, Cl. 209-243.
McKibben, Richard K., to Southwestern Engineering Company. Self-discharging finishing mill. 3,422,577, 1-21-69, Cl. 51-163.
McKibben, Richard K., to SWECO, Inc. Vibratory separator. 3,477,572, 11-11-69, Cl. 209-255.
McKibben, Richard K., to Sweco, Inc. Vibratory finishing apparatus. 3,482,359, 12-9-69, Cl. 51-163.
McKibben, Richard K.; and Lundy, Floyd A., to SWECO, Inc. Tensioning means for circular separator screens. 3,473,660, 10-21-69, Cl. 209-403.
McKibben, Richard K.; Racine, Bill A.; and Strom, John R., to SWECO, Inc. Vibratory finishing apparatus. 3,484,998, 12-23-69, Cl. 51-163.
Mc Kibben, Richard K.; and Westfall, Theodore R., to Sweco, Inc. Screen support. 3,483,977, 12-16-69, Cl. 209-403.

McKibbin, John T.: *See—*
Martin, Samuel R.; and McKibbin, John T.,3,433,339.
McKillip, William J.: *See—*
Impola, Clarence N.; and McKillip, William J.,3,440,224.
McKillip, William J., to Ashland Oil & Refining Company. Polyurethane compositions from diaminimides. 3,450,673, 6-17-69, Cl. 260-75.
McKillip, William J. Oxadiazoles. 3,471,509, 10-7-69, Cl. 260-307.
McKillip, William J.; and Throckmorton, Peter E., to Ashland Oil & Refining Company. Radiation resistant polyurethanes. 3,432,475, 3-11-69, Cl. 260-77.5
McKinlay, Robert C., to Ford Motor Company. Engine air supply system. 3,481,117, 12-2-69, Cl. 55-385.
McKinlay, Robert C., to Ford Motor Company. Air cleaner construction. 3,481,119, 12-2-69, Cl. 55-419.
McKinley, David L., to Union Carbide Corporation. Method for hydrogen separation and purification. 3,439,474, 4-22-69, Cl. 55-16.
McKinley, Horace F.: *See—*
Robbins, Albert L.; and McKinley, Horace F.,3,444,732.
McKinley, James E.: *See—*
Rood, William E., Jr.; McKinley, James E.; and Gray, James H.,3,425,097.
McKinley, James J., Jr., to Monsanto Company. Gas detection apparatus. 3,438,241, 4-15-69, Cl. 73-23.
McKinley, Milton Arthur. Undervoltage and overvoltage alarm circuit. 3,457,560, 7-22-69, Cl. 340-248.
McKinley, William Earl: *See—*
Cheng, Joseph Chin Jung; and McKinley, William Earl,3,452,421.
McKinnell, John C.: *See—*
Hutchison, Stanley O.; Anderson, Glen W.; and McKinnell, John C.,3,463,231.
Mc Kinnell, John C.: *See—*
Hutchison, Stanley O.; Anderson, Glen W.; and Mc Kinnell, John C.,3,486,560.
McKinney, Carlton B.; and Sheppard, William M., to Hamilton Company. Probe sampling apparatus. 3,463,012, 8-26-69, Cl. 73-422.
McKinney, Charles Dana, Jr.: *See—*
Smith, Daniel J.; Tarpley, William B., Jr.; and McKinney, Charles Dana, Jr.,3,447,879.
Mc Kinney, Dorsey L.: *See—*
Pfeffer, John W.; and Mc Kinney, Dorsey L.,3,467,155.
McKinney, James C., to Kellogg Company. Carton with integral lock tab and slot closures. 3,443,740, 5-13-69, Cl. 229-39.
McKinney, James L., to Martin-Marietta Corporation. Analog to digital converter using a plurality of radix amplifiers. 3,467,958, 9-16-69, Cl. 340-347.
McKinney, Joel D.; and Offutt, William C., to Gulf Research & Development Company. Start-up of a hydrodesulfurization reaction. 3,423,307, 1-21-69, Cl. 208-213.
McKinney, Joel D.: *See—*
Henke, Alfred M.; Luzar, Ronald V.; and McKinney, Joel D.,3,487,011.
McKinney, John F., to Intercontinental Chemical Corporation. Automatic pulse valve. 3,448,765, 6-10-69, Cl. 137-513.5
McKinney, John L.; and Taylor, William L., to United States of America, Atomic Energy Commission. Apparatus and method for separation of helium isotopes. 3,421,334, 1-14-69, Cl. 62-28.
Mc Kinney, Joseph M.: *See—*
Kerver, John K.; Kaiser, Albert D., Jr.; Heilhecker, Joe K.; and Mc Kinney, Joseph M.,3,481,400.
McKinney Manufacturing Company: *See—*
Dickinson, Lloyd R.; and Brancati, Mario J., 3,422,487.
Horstman, Robert L., 3,423,787.
Hortsman, Robert L., 3,422,488.
McKinney, Ralph E., to Hoover Ball and Bearing Company. Bulk material handling system. 3,478,968, 11-18-69, Cl. 239-650.
McKinney, Ralph E.; and Bauers, Arthur A., to Hoover Ball and Bearing Company. Fertilizer applicator vehicle. 3,474,935, 10-28-69, Cl. 222-178.
Mc Kinney, Richard W.: *See—*
Dykzeul, Theodore J.; and Mc Kinney, Richard W.,3,467,119.
McKinney, Ross E., to Union Tank Car Company, mesne. Waste treatment. 3,462,360, 8-19-69, Cl. 210-11.
McKinney, Russell A.: *See—*
Huth, Gerald C.; and McKinney, Russell A.,3,449,177.
McKinney, William J.: *See—*
Switzer, William E., 3,445,614.
McKinnon, Neil Alexander; Bennett, Colin Earl Garnsworthy; Williams, Lloyd Stuart; and McTaggart, Frederick Kenneth, to Commonwealth Scientific and Industrial Research Organization. Plasma sintering. 3,432,296, 3-11-69, Cl. 75-214.
McKinnon, Robert S. Heat exchange apparatus. 3,461,955, 8-19-69, Cl. 165-123.
McKinstry, John R.; Monck, Myron C.; and Hayes, Robert L., to Goodrich, B. F., Company, The. Inflatable bag catheter. 3,467,103, 9-16-69, Cl. 128-349.
McKinven, Robert, Jr., to Chicago Rawhide Manufacturing Company. Shaft seal. 3,482,844, 12-9-69, Cl. 277-82.
McKinzie, George T. Burglar alarm device for detecting sounds in a protected area. 3,437,759, 4-8-69, Cl. 179-5.
McKirby, Robert W.: *See—*
Engelsher, Harvey J.; and McKirby, Robert W.,3,477,686.
McKirdy, Robert W.; and Engelsher, Harvey J., to Horizon Industries, Ltd., mesne. Apparatus for flow-control and pressure measurement. 3,460,526, 8-12-69, Cl. 128-2.05
McKirdy, Robert W.; and Engelsher, Harvey J., to Horizon Industries, Ltd., mesne. Container suspension device. 3,460,789, 8-12-69, Cl. 248-146.
McKissick, E. V.: *See—*
McKissick, Robert W.; and Eberhard, John F., 3,441,645.
McKissick, Robert W.: *See—*
McKissick, Robert W.; and Eberhard, John F., 3,441,645.
McKissick, Robert W.; and Eberhard, John F., 80% to McKissick, Robert W., and McKissick, E. V. Composition for treating nails. 3,441,645, 4-29-69, Cl. 424-61.
McKnight, Bruce Wall: *See—*
McArthur, Colin Shaw; and McKnight, Bruce Wall,3,426,582.
McKnight, Herbert E.; and McKnight, James A.; guardian. Coffee maker. 3,473,463, 10-21-69, Cl. 99-307.
McKnight, James A.: *See—*
McKnight, Herbert E.; and McKnight, James A.; guardian,3,473,463.
McKnight, Robert J., III, to Voss Engineering Company. Intermediate supporting roll bearing block. 3,426,566, 2-11-69, Cl. 72-163.
McKnight, Robert J., to Rapistan Incorporated. Semi-continuous vertical lift. 3,447,670, 6-3-69, Cl. 198-218.
McKnight, William B.; Dearman, James R.; and Hawkins, Ralph W. Rapid firing laser surgical device. 3,481,340, 12-2-69, Cl. 128-395.
McKown, William L.; Ball, Murray E.; Moen, Rolf; and Weiss, Verne E., to General Mills, Inc. Process for making a ready-to-eat breakfast cereal with a filling therein. 3,450,538, 6-17-69, Cl. 99-81.
McKown, William L.; Zietlow, Philip K.; and Ball, Murray E., to General Mills, Inc. Process for making breakfast cereal. 3,464,826, 9-2-69, Cl. 99-81.
McKusick, John C.: *See—*
Timms, Leon M.; and McKusick, John C.,3,465,354.
McLachlan, Robert, to Leesona Corporation. Stop motion. 3,463,200, 8-26-69, Cl. 139-336.4
McLafferty, John J.: *See—*
Moore, Carl E.; Cassaretto, Frank P.; McLafferty, John J.; and Posvic, Harvey W.,3,468,959.
McLain, Aubrey R.: *See—*
Hall, Robert E.; Kessler, Adriaan; and McLain, Aubrey R.,3,459,808.
McLain, Earl A., to Dow Chemical Company, The. Wound hollow fiber permeability apparatus and process of making the same. 3,422,008, 1-14-69, Cl. 210-22.
McLain, Earl A., to Dow Chemical Company, The. Permeability separatory apparatus and process of making and using same. 3,475,331, 10-28-69, Cl. 210-321.
McLain, Earl A.; and Mahon, Henry I., to Dow Chemical Company, The. Permselective hollow fibers and method of making. 3,423,491, 1-21-69, Cl. 264-49.
McLain, James L.: *See—*
Fisher, Richard L., Jr.; and McLain, James L.,3,475,813.
McLain, Milton E., Jr.: *See—*
Roberts, Morris W.; and McLain, Milton E., Jr.,3,426,967.
McLamore, William M.; and Laubach, Gerald D., to Pfizer, Chas. & Co., Inc. 3,6-Disubstituted-7-sulfamyl-1,2,4-benzthiazide-1, 1-dioxides. 3,440,244, 4-22-69, Cl. 260-243.
McLamore, William M.; and Laubach, Gerald D., to Pfizer, Chas., & Co., Inc. 2,4-Disulfamyl acylanilides. 3,480,652, 11-25-69, Cl. 260-397.7
McLaren, James C.: *See—*
Offer, Robert J.; and McLaren, James C.,3,485,380.
McLaren, Ronald Robert: *See—*
Shepherd, Alexander Turnbull; and McLaren, Ronald Robert,3,449,743.
McLaren, Ronald Robert, to Ferranti, Limited. Electronic counters. 3,478,197, 11-11-69, Cl. 235-92.
Walker, George Sanderson; and McLaren, Ronald Robert,3,436,753.
McLarnan, Charles W.: *See—*
Freudenstein, Ferdinand; and McLarnan, Charles W.,3,440,891.
McLarty, Shirley. Commode valve assembly. 3,421,539, 1-14-69, Cl. 137-427.
McLatchie, Allan S.: *See—*
Whitmer, Lawrence W.; Gewers, Claus W. W.; and McLatchie, Allan S.,3,474,663.
McLauchlan, Thomas A.; and Arnold, Eugene W., to Weyerhaeuser Company. Band mill. 3,465,794, 9-9-69, Cl. 143-17.
Mc Lauchlan, Thomas A.; and Fairfield, Louis R., Jr., to Weyerhaeuser Company. Fluid guide means. 3,479,097, 11-18-69, Cl. 308-5.
McLaughlin, Daniel A.: *See—*
Kelly, James A., Jr.; and McLaughlin, Daniel A.,3,474,183.

McLaughlin, Donald J.: *See*—
Fluhr, Frederick R.; and McLaughlin, Donald J.,3,440,651.
McLaughlin, Donald N.: *See*—
Ball, Henry; and McLaughlin, Donald N.,3,441,342.
McLaughlin, George E., to Bell Telephone Laboratories, Incorporated. Electrical transmission testing system having test results transmitted in pulse width modulation form. 3,431,369, 3-4-69, Cl. 179-175.3
McLaughlin, Gerald R.: *See*—
Bezlaj, Frank A.; McLaughlin, Gerald R.; Loomis, Russell M.; and Breen, Henry D.,3,486,468.
McLaughlin, Harry A., to Ford Motor Company. Backhoe swing mechanism. 3,430,503, 3-4-69, Cl. 74-105.
McLaughlin, Homer C., to Halliburton Company. Method of plugging earth formations with fluoride catalyzed silicic acid chemical grout. 3,464,494, 9-2-69, Cl. 166-292.
McLaughlin, Homer C.; and Ramos, Joseph, to Halliburton Company. Delayed gelling of sodium silicate and use therefor. 3,435,899, 4-1-69, Cl. 166-292.
McLaughlin, James H.: *See*—
Fenske, Ellsworth R.; and McLaughlin, James H.,3,463,613.
McLaughlin, John A., to General Binding Corporation. Open end laminator. 3,421,966, 1-14-69, Cl. 156-555.
McLaughlin, Robert B.: *See*—
Riddle, John B.; and McLaughlin, Robert B.,3,442,363.
McLaughlin, Thomas G. Hand washing machine. 3,439,370, 4-22-69, Cl. 15-4.
McLaughlin, William I., to Colorado Manufacturing Corporation. Sliding block valve and actuating mechanism therefor. 3,478,781, 11-18-69, Cl. 137-625.63
McLaughlin, William J., to Aerojet-General Corporation. Plasma reduction of titanium dioxide. 3,429,691, 2-25-69, Cl. 75-10.
McLay, William S., Jr.: *See*—
Warrick, Edward C.; and McLay, William S., Jr.,3,461,930.
McLean, Arthur F., to Ford Motor Company. Four wheel driven gas turbine vehicle with clutch-controlled drive to front axle. 3,433,319, 3-18-69, Cl. 180-44.
McLean, Arthur F., to Ford Motor Company. Gas turbine control system. 3,485,042, 12-23-69, Cl. 60-39.28
McLean, Arthur F., to Ford Motor Company. Control system for gas turbine/transmission power train. 3,486,329, 12-30-69, Cl. 60-39.28
McLean, David A. Trolling device for fishing. 3,422,561, 1-21-69, Cl. 43-19.2
McLean, David William; and Easter, Charles Glazin. Apparatus for depositing and conveying rod rings in sequence with rod forming means. 3,452,785, 7-1-69, Cl. 140-2.
McLean, Howard J., to General Electric Company. Brush holder. 3,449,608, 6-10-69, Cl. 310-246.
McLean, John O., to De Laval Turbine Inc. Method and apparatus for separation of tramp oil from oil-in-water emulsions. 3,478,873, 11-18-69, Cl. 210-23.
McLean, John O.; and Schneider, John R., to De Laval Turbine Inc. Method for separation of tramp oil from oil-in-water emulsions. 3,478,874, 11-18-69, Cl. 210-23.
McLean, John Walford; and Hughes, Thomas Henry, to National Research Development Corporation. Dental materials. 3,464,837, 9-2-69, Cl. 106-35.
McLean, Kenneth James: *See*—
Tassicker, Owen James; McLean, Kenneth James; and Herceg, Zlatko,3,473,118.
McLean, Leonard A., to Atlantic Coast Line Railroad Company. Brake rigging modification for composition brake shoes. 3,446,319, 5-27-69, Cl. 188-206.
McLean, Robert F., to General Motors Corporation. High speed land transportation system. 3,470,827, 10-7-69, Cl. 104-134.
McLean, Robert H.; Nolan, Melvin E.; and Axsom, James F., to Sun Oil Company. Cleaning surface deposits from raschig rings. 3,452,490, 7-1-69, Cl. 51-314.
McLean, William M.; and Seybolt, Kendall, to United States of America, Army. Transceiver power supply with overload protective circuitry. 3,465,252, 9-2-69, Cl. 325-151.
McLeercy, Rowland. Snow plow. 3,439,436, 4-22-69, Cl. 37-43.
McLeese, Willis S. Vibrating food freezer. 3,425,237, 2-4-69, Cl. 62-380.
McLeish, Charles D., to Indiana General Corporation. Cast chains. 3,427,801, 2-18-69, Cl. 59-1.
Mc Lellan, David R., to General Motors Corporation. Acoustic resonator with gas recirculation tubes. 3,469,652, 9-30-69, Cl. 181-44.
Mc Lellan, Kenneth M., to Midland-Ross Corporation. Yarn forwarding apparatus. 3,442,429, 5-6-69, Cl. 226-186.
McLelland, Donald R.: *See*—
Norman, Joe H.; and McLelland, Donald R.,3,474,737.
McLendon, James R.; and Laakmann, Peter, to Hughes Aircraft Company. Active pulse delay line. 3,463,941, 8-26-69, Cl. 307-293.
McLennan, William D.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,420,704.
McLennon, Peter J. Shoe cleaning apparatus. 3,482,272, 12-9-69, Cl. 15-36.
McLeod, Donald L.: *See*—
Olsen, George Franklin; and McLeod, Donald L.,3,445,099.
Mc Leod, Ellsworth W., to Frigid Food Products, Incorporated. Process of discoloration in cherries with EDTA. 3,451,824, 6-24-69, Cl. 99-103.
McLeod, Francis D., Jr., to Mennen-Greatbatch Electronics, Inc. Ultrasonic flowmeter for measuring blood flow. 3,430,625, 3-4-69, Cl. 128-2.05
McLeod, Gordon Donald, to Stauffer Chemical Company. Preparation of molds. 3,428,465, 2-18-69, Cl. 106-38.35
McLeod, James E.; Taborosi, Steve; Groening, Harvey F.; and Riechers, Harold D., to FMC Corporation. Production of hydrated sodium tripolyphosphate. 3,469,938, 9-30-69, Cl. 23-107.
McLeod, Murray J.: *See*—
Cranford, William B.; Petricola, Anthony J.; and McLeod, Murray J.,3,475,269.
McLeod, Paul C., Jr., to Corning Glass Works. Fluid pulsed oscillator. 3,444,879, 5-20-69, Cl. 137-81.5
McLeod, Robert B., to Bliss, E. W., Company. Anti-side tone circuit. 3,441,684, 4-29-69, Cl. 179-81.
McLeod, Robert B., to Bliss, E. W., Company. Stable-fast start electromechanically controlled oscillator. 3,460,057, 8-5-69, Cl. 331-109.
McLeod, Willard W., Jr., to Raytheon Company. Antenna array duplexing system. 3,484,784, 12-16-69, Cl. 343-5.
McLeroy, Edward G., Jr.: *See*—
Stanley, William C.; Harris, William G., Jr.; and McLeroy, Edward G., Jr.,3,478,308.
McLoad, Kenneth W., to Schlumberger Technology Corporation. Electrical connector. 3,445,805, 5-20-69, Cl. 339-89.
McLoad, Kenneth W., to Schlumberger Technology Corporation. Geophone housing and take-out. 3,445,809, 5-20-69, Cl. 340-17.
McLogan, Russell E.; Silverstein, Raymond E.; and Szosteki, Walter J., to Vaco Products Company. Reversible bit handtool. 3,455,355, 7-15-69, Cl. 145-50.
McLoughlin, John; and Cafaro, William. Hydro driven hose washer and winder. 3,471,885, 10-14-69, Cl. 15-40.
McLouski, Raymond M.: *See*—
Cricchi, James R.; White, Marvin H.; and McLouski, Raymond M.,3,447,046.
McLouth, Bruce F. Reclaiming apparatus and method. 3,448,702, 6-10-69, Cl. 110-18.
McLoy, Frederic C.; and Knowles, Edwin C., to Texaco, Inc. Amine-hydrocarbyl acid-orthophosphate-zinc halide complexes. 3,439,011, 4-15-69, Cl. 260-429.9
McMahan, Walter C. Irrigation gauge. 3,443,420, 5-13-69, Cl. 73-73.
McMahon, Donald J. Dust protector for venetian blinds. 3,452,802, 7-1-69, Cl. 160-34.
McMahon, Edward G., to Johns-Manville Corporation. Method of forming a laminate and winding same into a roll. 3,432,373, 3-11-69, Cl. 156-184.
McMahon, Emmett P., to Bell Aerospace Corporation. Magnetic core of tapered tube form for progressive magnetic switching. 3,432,833, 3-11-69, Cl. 340-174.
McMahon, John, to Dymo Industries, Inc. Tape embossing machine with selectively variable tape feed increments. 3,485,335, 12-23-69, Cl. 197-6.7
McMahon, Joseph F., to Princeton Chemical Research, Inc. Production of nitriles. 3,433,823, 3-18-69, Cl. 260-465.3
McMahon, Joseph F.; and Milliken, Thomas H., to Pullman Incorporated. Hydrogen production. 3,476,536, 11-4-69, Cl. 48-214.
McMahon, Joseph F.: *See*—
Wolf, Calvin N.; and McMahon, Joseph F.,3,440,276.
McMahon, Matthew A., Jr.: *See*—
Siegart, William R.; Blackley, William D.; Chafetz, Harry; and McMahon, Matthew A., Jr.,3,480,667.
McMahon, Thomas J., to National Lead Company. Process for acid digestion of titaniferous materials. 3,480,386, 11-25-69, Cl. 23-117.
McMahon, William F., to United States of America, Navy. Phase-controlled slot antenna. 3,460,149, 8-5-69, Cl. 343-768.
McMains, Billy D.; and Friedman, Marvin L., to Jay-El Products, Inc. Water-responsive energizing apparatus. 3,426,942, 2-11-69, Cl. 222-5.
McMakin, Dwight M., to American Air Filter Company, Inc. Gas intake device. 3,472,001, 10-14-69, Cl. 55-233.
McManama, Charles E. Machine for sawing lumber from hollow logs. 3,434,514, 3-25-69, Cl. 143-47.
McManigal, Robert M.: *See*—
Eubanks, Floyd G., 3,451,442.
McManimie, Robert J., to Monsanto Company. Polymerization of cast acrylic resins. 3,442,851. 5-6-69, Cl. 260-41.
McManimie, Robert J., to Monsanto Company. Vinyl polymerization process. 3,448,073, 6-3-69, Cl. 260-41.
McManimie, Robert J.: *See*—
Kern, Roland J.; and McManimie, Robert J.,3,478,129.
Miller, Robert E.; and McManimie, Robert J.,3,427,337.

McManis, Donald L.: *See—*
Bishop, George E.; and McManis, Donald L.,3,465,222.
McMann, Renville H., Jr., to Columbia Broadcasting System, Inc. Record analyzing and viewing apparatus. 3,436,473, 4-1-69, Cl. 178-6.8
McMann, Renville H., Jr., to Columbia Broadcasting System, Inc. Gamma correction circuit. 3,458,652, 7-29-69, Cl. 178-7.3
McMann, Renville H., Jr., to Columbia Broadcasting System, Inc. Gamma correction circuit for field sequential color television. 3,461,224, 8-12-69, Cl. 178-5.4
McMann, Renville H., Jr., to Columbia Broadcasting System, Inc. Field sequential color scan converter. 3,475,548, 10-28-69, Cl. 178-5.2
McMann, Renville H., Jr., to Columbia Broadcasting System, Inc. Dual resolution scanning system using carrier transmission of plural video signals. 3,475,555, 10-28-69, Cl. 178-6.8
McMann, Renville H., Jr., to Columbia Broadcasting System, Inc. Sampling apparatus for television systems employing one and two pick-up tubes. 3,479,450, 11-18-69, Cl. 178-5.4
McMann, Renville H., Jr., to Columbia Broadcasting System, Inc. Apparatus to improve color fidelity in simultaneous color television systems. 3,483,315, 12-9-69, Cl. 178-5.4
McMann, Wilbur S.: *See—*
Stang, Charles, Jr.; and McMann, Wilbur S.,3,486,693.
Mc Manus, Ira J. Steel joist connection cutter. 3,457,818, 7-29-69, Cl. 83-599.
McManus, Jackson L.: *See—*
Cureton, Francis M.; and McManus, Jackson L.,3,449,899.
McManus, James M.; and Koe, Billie Kenneth, to Pfizer, Chas., & Co., Inc. Aminomethylindoles. 3,459,767, 8-5-69, Cl. 260-326.15
McManus, Joseph M., to Physical Sciences Corporation. Multi - pin connector. 3,465,284, 9-2-69, Cl. 339-196.
McManus, Lee C., to Clyde Iron Works, Inc. Generator fed varying voltage motor control system for cranes with motor field control during lowering. 3,424,963, 1-28-69, Cl. 318-152.
McManus, Lee C., to Clyde Iron Works, Inc. Compound wound direct current generator having a split shunt field winding. 3,445,749, 5-20-69, Cl. 322-63.
McManus, Robert P.: *See—*
Kinkel, Lester J.; and McManus, Robert P.,3,483,472.
McManus, William H., Jr. Container carrying frame for bed. 3,427,668, 2-18-69, Cl. 5-92.
McMaster, Arnold L., to Wyandotte Chemicals Corporation. Preparation of xylylene diisocyanate from xylylene dihalides and alkali cyanates using dimethyl sulfone-aryl halide solvent. 3,440,269, 4-22-69, Cl. 260-453.
McMaster, Arnold L.; and Davis, Kenneth E., to Wyandotte Chemicals Corporation. Preparation of xylylene diisocyanate from xylylene dichloride and alkali metal cyanate using a quenching solvent. 3,440,270, 4-22-69, Cl. 260-453.
McMaster, Harold A., to Permaglass Inc. Gas support bed apparatus for treating glass. 3,455,671, 7-15-69, Cl. 65-182.
McMaster, Harold A., to Permaglass, Inc. Defrosting and deicing window assembly. 3,475,588, 10-28-69, Cl. 219-203.
McMaster, Harold A., to Permaglass, Inc. Method and apparatus for heat treating glass on a gas support bed. 3,485,612, 12-23-69, Cl. 65-25.
McMaster, Harold A.; and McMaster, Ronald A., to Permaglass Inc. Apparatus for heat treating glass on a fluid support. 3,455,669, 7-15-69, Cl. 65-182.
McMaster, Harold A.; and Nitschke, Norman C., to Permaglass, Inc. Method for tempering glass utilizing an organic polymer gaseous suspension. 3,423,198, 1-21-69, Cl. 65-111.
McMaster, Harold A.; Nitschke, Norman C.; and Kawecka, John J., to Permaglass Inc. Method and apparatus for shaping glass sheets supported on a gas support bed. 3,468,645, 9-23-69, Cl. 65-25.
McMaster, Joseph B. Innertube valve stem for tubeless rims. 3,442,316, 5-6-69, Cl. 152-427.
McMaster, Robert C.; Libby, Charles C.; and Minchenko, Hildegard M., to Ohio State University, The Board of Trustees of the. Sonic transducer apparatus. 3,475,628, 10-28-69, Cl. 310-8.2
McMaster, Robert C.; Mitchell, Jay P.; and Rhoten, Merle L., to Ohio State University Research Foundation, The. X-ray television inspection system with selenium camera tube target. 3,466,388, 9-9-69, Cl. 178-6.
McMaster, Ronald A., to Permaglass Inc. Heat exchange apparatus for treating glass. 3,455,670, 7-15-69, Cl. 65-182.
McMaster, Ronald A.: *See—*
McMaster, Harold A.; and McMaster, Ronald A.,3,455,669.
Mc Math, Allen M.: *See—*
Mc Callister, Joseph David; Mc Math, Allen M.; and Anderson, Darwin Arthur,3,466,695.
McMeen, Forrest H.; Gresham, William F.; and Stucka, George R. Doorknob adapter assembly. 3,427,061, 2-11-69, Cl. 292-353.
McMichael, Charles E.; and Singleton, William A., to Chemetron Corporation. Process for plasticizing fatty materials. 3,455,700, 7-15-69, Cl. 99-122.
McMichael, James W., Jr., to Caterpillar Tractor Company. Pin peeler. 3,477,342, 11-11-69, Cl. 90-24.
McMichael, Wallace T., to Dow Chemical Company, The. Electrical open cell heating element. 3,459,924, 8-5-69, Cl. 219-543.
Mc Millan, Allen G. Shirred tubular material package. 3,468,413, 9-23-69, Cl. 206-46.
McMillan, Buford F., II. Hitching system. 3,420,551, 1-7-69, Cl. 280-509.
McMillan, Donald W.: *See—*
Fitch, Tom L.; McMillan, Donald W.; and Riggin, Lance E.,3,421,090.
McMillan, James O.; and Kaplan, Robert W. Shopping cart mounted ash receptacle. 3,438,644, 4-15-69, Cl. 280-33.99
McMillan, Jerry N. Trouser mounting device. 3,484,028, 12-16-69, Cl. 223-73.
McMillan, Jerry N. Uniform finishing machine. 3,484,820, 12-16-69, Cl. 223-57.
McMillan, Jerry N. Garment finishing machine. 3,486,667, 12-30-69, Cl. 223-57.
Mc Millan, John G., to Honeywell Inc. Fluidic frequency discriminator. 3,463,177, 8-26-69, Cl. 137-81.5
McMillan, Peter William; and Partridge, Graham, to English Electric Company Limited, The. Method of coating a ceramic-carbon material with glass and article. 3,460,987, 8-12-69, Cl. 117-219.
McMillan, Robert W., to Martin-Marietta Corporation. Single-switch gain changer. 3,447,095, 5-27-69, Cl. 330-144.
McMillan, William J., to Dow Chemical Company, The. Method for molding foamed inorganic articles. 3,444,277, 5-13-69, Cl. 264-43.
McMillan, William J., to Dow Chemical Company, The. High density surface for foamed inorganics. 3,468,989, 9-23-69, Cl. 264-43.
McMillan, William J.: *See—*
Jones, Giffin D.; and McMillan, William J.,3,459,565.
Musgrove, Ronald Obie; and McMillan, William Joseph,3,432,048.
McMillen, Harry E., to Murdock, Inc. Hot press insulating system. 3,461,709, 8-19-69, Cl. 72-342.
McMillen, Kenneth G., to Borg-Warner Corporation. Valve detent mechanism. 3,476,148, 11-4-69, Cl. 137-624.27
McMillen, Lawrence R., to Addressograph-Multigraph Corporation. Parity check multiple scan scanning system for machine read code characters. 3,474,230, 10-21-69, Cl. 235-61.7
McMillen, Russell G., to International Harvester Company. Clutch control device. 3,424,016, 1-28-69, Cl. 74-57.
McMiller, Urban C., to Beatrice Foods Co., mesne. Latch mechanism for a car top carrier door. 3,476,162, 11-4-69, Cl. 150-52.
McMillian, Wayne: *See—*
Murphy, Frank W., Jr.; and McMillian, Wayne,3,452,308.
Mc Millin, John V., to Measurement Research Center, Inc. Selectively controlled transistor discriminator circuits. 3,486,040, 12-23-69, Cl. 307-235.
McMonagle, William H., to Sperry Rand Corporation. Punch travel detection arrangement. 3,430,529, 3-4-69, Cl. 83-522.
McMorris, William A., to General Electric Company. Interlock between switch and cable connector for electrical apparatus. 3,457,381, 7-22-69, Cl. 200-50.
McMorris, William A., to General Electric Company. Transformer switching using a pair of three- position switches. 3,462,611, 8-19-69, Cl. 307-17.
McMorrow, Joseph L.; and Shockroo, James E., to Texas Instruments, Incorporated. Overload and heat protective apparatus for three- phase motors. 3,482,146, 12-2-69, Cl. 317-13.
McMorrow, Joseph L.: *See—*
Shockroo, James E.; Lopes, Manuel R.; and McMorrow, Joseph L.,3,470,513.
McMullen, Bobby G.: *See—*
Metzger, Courtney A.; Hearld, Albert B.; McMullen, Bobby G.; and Reynolds, Bobby J.,3,483,091.
McMullen Co., The: *See—*
McMullen, Thomas J., Sr.; McMullen, Thomas J., Jr.; and Coats, Hugh L., Jr., 3,483,064.
McMullen, John C.; and Taylor, Kenneth M., to Carborundum Company, The. Method of preparing extruded grains of silicon carbide. 3,480,395, 11-25-69, Cl. 23-208.
McMullen, John J.: *See—*
Basile, Norman K.; and Bridges, Thomas F., 3,428,205.
Bridges, Thomas F., 3,425,583.
Bridges, Thomas Fort; Knight, George Raymond, Jr.; and Penney, Norman Withers, 3,420,396.
Kerr, Emory L., 3,453,836.
Yearwood, Donald R.; Basile, Norman K.; and Bridges, Thomas F., 3,434,492.
McMullen, John J., Associates, Inc.: *See—*
Field, Sheldon B., 3,471,040.
McMullen, Thomas J., Jr.: *See—*
McMullen, Thomas J., Sr.; McMullen, Thomas J., Jr.; and Coats, Hugh L., Jr.,3,483,064.
McMullen, Thomas J., Sr.; McMullen, Thomas J., Jr.; and Coats, Hugh L., Jr., to McMullen Co., The. Adhesive tape applicator. 3,483,064, 12-9-69, Cl. 156-577.
McMullen, Warren H.; and Kardos, Otto, to M & T Chemicals Inc. Method of electroplating corrosion resistant coating. 3,474,010, 10-21-69, Cl. 204-40.

McMullin, Edward Vincent; and Hofer, John Gerald, to Laclede Gas Company. Process for the production of a natural gas substitute. 3,477,833, 11r11-69, Cl. 48-214.
McMurdo Instrument Company Limited, The: *See*—
Cole, James Edward George, 3,477,059.
McMurray, John C.: *See*—
Byam, Erwin B.; and McMurray, John C.,3,440,860.
McMurray, John C., to Textron Inc. Transfer finger mechanism. 3,425,073, 2-4-69, Cl. 10-11.
McMurray, Lynn L.: *See*—
Fenske, Douglas H., and; and McMurray, Lynn L.,3,425,548.
McMurray, William C.: *See*—
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C.,3,479,443.
McMurray, William, to General Electric Company. Multipurpose power converter circuits. 3,487,289, 12-30-69, Cl. 321-45.
McMurry, Everett D.: *See*—
Abercrombie, Bolling A., 3,439,626.
McNab, Robert Francis, Jr., to Stevens, J. P., & Co., Inc. Method and apparatus for texturizing synthetic thermoplastic yarns. 3,439,392, 4-22-69, Cl. 28-1.
McNabb, George C., to Foxboro Company, The. Bearingless flowmeter employing fluid support for rotor. 3,447,373, 6-3-69, Cl. 73-229.
McNabb, Louis, A., to Mech-Tronics Corporation. Electronic beam welding machine. 3,433,923, 3-18-69, Cl. 219-121.
McNabb, Louis A., to Mech-Tronics Corporation. Electron beam welding machine. 3,433,922, 3-18-69, Cl. 219-121.
McNabney, John C., to Trane Company, The. Heat exchanger convector. 3,447,597, 6-3-69, Cl. 165-55.
McNabney, John C., to Trane Company, The. Wall hanger for a heat exchanger. 3,448,795, 6-10-69, Cl. 165-55.
Mc Nair, John W., Jr.: *See*—
Feeney, Joseph W.; Pojawis, Paul L.; Allenbaugh, James E., Jr.; and Mc Nair, John W., Jr.,3,463,656.
McNair, Samuel, to Songrand Corporation, The. Combined heating and massaging device. 3,467,080, 9-16-69, Cl. 128-24.2
McNair, William T., Jr.: *See*—
Martin, Alfred W.; Walker, James W.; McNair, William T., Jr.; and Hood, Coy H.,3,432,560.
McNair, Willie L.: *See*—
Dinger, Edward H.; and McNair, Willie L.,3,422,332.
McNally, Donald E.: *See*—
Poppe, Robert P.; and McNally, Donald E.,3,431,022.
McNally, Norbert J. Baffle device. 3,464,584, 9-2-69, Cl. 220-86.
McNamara, Francis. Practice putting device including vertically slidable annulus. 3,458,202, 7-29-69, Cl. 273-177.
McNamara, Kenneth, to Western Electric Company, Incorporated. Fixture for securing an electrical contact with a support shell. 3,432,906, 3-18-69, Cl. 29-203.
McNamara, Michael M.: *See*—
Engleman, Frederick H.; and McNamara, Michael M.,3,441,642.
McNamara, Thomas P.: *See*—
Schneider, Helmuth G.; and McNamara, Thomas P.,3,426,054.
McNamara, Thomas V., to Eaton Yale & Towne, Inc. Meshing assisting means for jaw clutches. 3,441,117, 4-29-69, Cl. 192-109.
McNamara, William A., Jr.: *See*—
Sherman, Albert; and McNamara, William A., Jr.,3,432,824.
McNamara, William L., to Anchor Hocking Corporation. Self-aligning glass shears. 3,467,514, 9-16-69, Cl. 65-334.
McNamee, Merle D. Panel truck camper and method of conversion. 3,475,048, 10-28-69, Cl. 296-23.
McNamee, Merle Dwyer. Camper converted from panel truck and method of conversion. 3,469,881, 9-30-69, Cl. 296-23.
McNancy, Joseph T. Light guide message character display apparatus. 3,420,949, 1-7-69, Cl. 178-30.
McNancy, Joseph T. Light gate system means. 3,426,147, 2-4-69, Cl. 178-7.87
McNaught, John P.: *See*—
Linteris, Lino Luigi; and McNaught, John P.,3,460,948.
Mc Naughtan, Thomas J.: *See*—
Shepard, Alvin F.; and Mc Naughtan, Thomas J.,3,425,989.
McNaughton, Gordon Richard: *See*—
Ricli, Anthony; and McNaughton, Gordon Richard,3,485,313.
McNeal, Daniel R., Jr., to Andale Company. Extruder head. 3,452,394, 7-1-69, Cl. 18-12.
McNeal, Daniel R., Jr., to Andale Company. Valve operating equipment particularly for automatically modulated valves. 3,466,945, 9-16-69, Cl. 74-625.
McNeal, James: *See*—
Krnac, Joseph; and McNeal, James,3,483,835.
McNeary, Matthew W.: *See*—
Adelson, Leonard; Magnussen, Roald S.; and McNeary, Matthew W.,3,456,171.
McNeely, James A.: *See*—
Scheublein, William A., Jr.; Fister, Louis; McNeely, James A.; and Talmage, Jay W.,3,470,721.
McNeely, Senate W.; and Montgomery, Hoyt G., to American Enka Corporation. Device for measuring machine pressure. 3,439,535, 4-22-69, Cl. 73-141.
McNeely, William H., to Kelco Company. Process for preparing polysaccharide. 3,427,226, 2-11-69, Cl. 195-31.
McNeely, William H., to Kelco Company. Proces for producing a polysaccharide. 3,433,708, 3-18-69, Cl. 195-31.
Mc Neeney, Peter: *See*—
Duxbury, Frederick Keith; Garforth, John David; and Mc Neeney, Peter,3,468,975.
McNeese, Leonard E.; Watson, Jack S.; and Whatley, Marvin E., to United States of America, Atomic Energy Commission. Liquid-liquid removal of protactinium from spent molten salt mixtures containing uranium tetrafluoride. 3,472,633, 10-14-69, Cl. 23-325.
McNeight, David Leslie: *See*—
Scragg, Frederick; Parker, Walter; and McNeight, David Leslie,3,461,657.
McNeil Corporation: *See*—
Dehn, Roy F., 3,422,963.
Dehn, Roy F., 3,449,532.
Dehn, Roy F., 3,461,250.
Dehn, Roy F., 3,475,568.
Pamer, Karl A., 3,428,195.
Wegmann, Jerome B.; and Graef, John R., 3,469,532.
McNeil, Gordon I. Snowmobile track. 3,477,767, 11-11-69, Cl. 305-38.
McNeil, Gordon: *See*—
La Rocque, Armand P.; and McNeil, Gordon,3,426,253.
McNeil, James J.: *See*—
Elliott, Carl Wayne; and McNeil, James J.,3,421,357.
McNeil Laboratories, Inc.: *See*—
Cain, Cornelius K., 3,476,754.
Carson, John R., 3,422,101.
Carson, John R., 3,444,209.
Carson, John R., 3,471,503.
Meschino, Joseph A., 3,426,033.
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; Rasmussen, Chris Royce; and Plampin, James Nelson, 3,436,396.
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; and Rasmussen, Chris Royce, 3,453,271.
Meschino, Joseph Albert, 3,483,186.
Mohrbacher, Richard J.; and Rasmussen, Chris Royce, 3,426,032.
Mohrbacher, Richard J., 3,444,176.
Mohrbacher, Richard Joseph; Meschino, Joseph Albert; and Rasmussen, Chris Royce, 3,424,757.
Mohrbacher, Richard Joseph; Poos, George Ireland; and Roszkowski, Adolph P., 3,471,619.
Paragamian, Vasken, 3,426,030.
Paragamian, Vasken, 3,476,759.
Plostnieks, Janis, 3,428,649.
Plostnieks, Janis, 3,432,523.
Plostnieks, Janis, 3,435,033.
Rasmussen, Chris Royce; Carson, Elizabeth Landis; and Mohrbacher, Richard Joseph, 3,433,797.
Rasmussen, Chris Royce, 3,476,749.
Suh, John T., 3,454,586.
Suh, John T., 3,467,670.
Mc Neil Laboratories, Inc.: *See*—
Paragamian, Vasken, 3,462,443.
McNeill, George A.; and Sacks, Jerry D., to Monsanto Company. Method of controlling distillation operation with on-off control response. 3,477,916, 11-11-69, Cl. 203-3.
Mc Nenny, Wilbur J. Fruit lowering device. 3,470,990, 10-7-69, Cl. 193-7.
McNenny, Wilbur J. Fruit picking device. 3,477,542, 11-11-69, Cl. 182-49.
McNinch, Delmar D., to Lawrence Brothers, Inc. Hanger device. 3,479,682, 11-25-69, Cl. 16-97.
McNish, Howard G.: *See*—
McBride, Harold O.; Tichy, Oscar A. W.; and McNish, Howard G.,3,478,373.
McNown, Darl D. Alternate, variable timing control for hydraulic devices. 3,425,446, 2-4-69, Cl. 137-624.16
McNulty, Carrell S. Apparatus and methods for testing conduits. 3,451,259, 6-24-69, Cl. 73-40.5
McNulty, Frank E.; Nee, Robert M.; and Martin, Charles J., to Nee & McNulty, Inc. Method of applying a protective wrapping to a conduit. 3,420,722, 1-7-69, Cl. 156-162.
McNulty, James A.: *See*—
Myers, Alva Robert; and McNulty, James A.,3,427,238.
McNulty, John F., to International Telephone and Telegraph Corporation. Electrically polarized reed relay. 3,445,729, 5-20-69, Cl. 317-123.
McNulty, John V., to Northern Lumber Company, Inc. Chain saw for cutting very hard materials and having plunge cutting means. 3,459,169, 8-5-69, Cl. 125-21.

McNulty, Joseph V.; and Goodwin, David E., to Hanson-Van Winkle-Munning Co. Solid state rectifier with reverse current bleeding. 3,450,892, 6-17-69, Cl. 307-107.
Mc Nutly, John G.: *See—*
Hay, Russell G.; Mc Nutly, John G.; and Walsh, William L.,3,461,184.
McNutt, Robert D.: *See—*
Davis, Edward M., Jr.; McNutt, Robert D.; and Mones, Arthur H.,3,456,159.
McOrlly, Joseph, to Wiegand, Edwin L., Company. Method of making electric resistance heating units. 3,468,023, 9-23-69, Cl. 29-615.
McPeek, William T.; and Lynch, Arthur E., to General Motors Corporation. Cross drive transmission dynamometer. 3,451,262, 6-24-69, Cl. 73-118.
McPherren, Merle L. Water cleaner. 3,439,809, 4-22-69, Cl. 210-249.
McPherson, Edwin M., to Schoeneman, J., Incorporated. Apparatus for fabric cutting. 3,465,671, 9-9-69, Cl. 101-114.
Mc Pherson, George Bruce; and Patterson, Granville P. Combined water distribution and regeneration system. 3,478,884, 11-18-69, Cl. 210-152.
McPherson Instrument Corporation: *See—*
McPherson, Paul M., 3,433,557.
McPherson, John C., to Eaton Yale & Towne, Inc. Lowering valve. 3,420,146, 1-7-69, Cl. 91-443.
McPherson, Paul M., to McPherson Instrument Corporation, mesne. Mounting for interchangeable gratings. 3,433,557, 3-18-69, Cl. 350-162.
McPherson, Wilbur A.; and Hamilton, Robert W., to Gulf Oil Corporation. Method of sparging fluids into rolling beds of particulate solids. 3,446,486, 5-27-69, Cl. 259-15.
McQuade, James M., to General Electric Company. Method of making battery separators. 3,475,297, 10-28-69, Cl. 204-56.
McQuade, James M., to General Electric Company. Battery having electrodeposited separator on the plates and method of making same. 3,477,875, 11-11-69, Cl. 136-6.
McQuaid, John B. Disposable tent. 3,464,430, 9-2-69, Cl. 135-1.
McQuary, Kenneth L.: *See—*
Truesdell, Warren L.; and McQuary, Kenneth L.,3,430,581.
McQuay-Norris Manufacturing Company: *See—*
Hantack, Melvin E., 3,446,565.
Mayfield, George C., 3,447,811.
McQueen, Clifford H., 50% to Hunter, Elmer W. Auxiliary truck body. 3,450,437, 6-17-69, Cl. 298-14.
McQueen, Malcolm M., to Whittaker Corporation. Lifting body external fuel stores. 3,447,768, 6-3-69, Cl. 244-135.
McQueen, Malcolm M., to Whittaker Corporation. Redundant pressure regulating system. 3,481,356, 12-2-69, Cl. 137-110.
McQueen, Malcolm: *See—*
Plotkin, Manuel; and McQueen, Malcolm,3,428,063.
McQueen, Roy D.: *See—*
Chaplin, Hubert O.; McQueen, Roy D.; and Lee, Kenneth,3,423,779.
McQuerry, Ersel R.; and Head, Dell A. Tube bundle vehicle. 3,458,063, 7-29-69, Cl. 214-38.
McRae, Daniel D.; Glover, Edward B.; Williamson, Leon B.; and Frederick, Sinclair A., to Radiation Incorporated. Variable rate telemetry systems. 3,426,327, 2-4-69, Cl. 340-172.
McRae, John L.; and Wislocki, Joseph P. Wall friction device. 3,478,572, 11-18-69, Cl. 73-9.
McRae, Lorin P.: *See—*
Burton, Herbert O.; and McRae, Lorin P.,3,421,147.
McRae, Lorin P.; Watts, Robert N.; and Wolf, William J., Jr., to Bell Telephone Laboratories, Incorporated. Error control system. 3,471,830, 10-7-69, Cl. 340-146.1
McRae, Wayne A.; Brown, Daniel L.; and McGriff, Stuart G., to Ionics, Incorporated. Recovery of sulfur dioxide from gas streams. 3,475,122, 10-28-69, Cl. 23-178.
McRae, Wayne A.; and Katz, William E., to Ionics, Incorporated. Separation of un-ionized substances by electro-osmosis. 3,440,159, 4-22-69, Cl. 204-180.
Mc Rae, Wayne A.; and Goldstein, Arthur L., to Ionics, Incorporated. Ultraviolet process and apparatus for disinfection of aqueous liquids. 3,485,576, 12-23-69, Cl. 21-54.
McRay, Ferris L., to Allis-Chalmers Manufacturing Company. Control mechanism for shifting and braking a shiftable clutching member. 3,424,285, 1-28-69, Cl. 192-18.
McReynolds, Leo A.: *See—*
Walker, Darrell W.; and McReynolds, Leo A.,3,480,660.
McReynolds, William W.: *See—*
Banas, Henry C.; McReynolds, William W.; and Smith, David A.,3,465,991.
MCrimlisk, Gerard Joseph, to Lever Brothers Company. Process for the production of fatty acid esters of hydroxy sulfonates. 3,420,858, 1-7-69, Cl. 260-400.
McRoberts, Patrick L.: *See—*
Mook, Donald E.; and McRoberts, Patrick L.,3,459,561.
McRoskey, John W.: *See—*
McRoskey, Leonard H.; and McRoskey, John W.,3,466,043.
McRoskey, Leonard H.; and McRoskey, John W.,3,471,690.
McRoskey, Leonard H.; and McRoskey, John W.,3,474,567.
McRoskey, John W.; and Mc Roskey, Leonard H., to Republic Tool & Manufacturing Corporation. Auxiliary light unit. 3,439,159, 4-15-69, Cl. 240-8.18
McRoskey, Leonard H.; and McRoskey, John W., to Republic Tool & Manufacturing Corporation. Combined passing race track and self-propelled vehicles. 3,466,043, 9-9-69, Cl. 273-86.
McRoskey, Leonard H.; and McRoskey, John W., to Republic Tool & Manufacturing Corporation. Race track control means for amusement devices. 3,471,690, 10-7-69, Cl. 246-415.
McRoskey, Leonard H.; and McRoskey, John W., to Republic Tool & Manufacturing Corporation. Control means for electrically driven miniature vehicle. 3,474,567, 10-28-69, Cl. 46-243.
Mc Roskey, Leonard H.: *See—*
McRoskey, John W.; and Mc Roskey, Leonard H.,3,439,159.
McRuer, Duane T.: *See—*
Ashkenas, Irving L.; Durand, Tulvio S.; and McRuer, Duane T.,3,483,302.
McShane, Herbert Felix, Jr., to Du Pont de Nemours, E. I., and Company. Process for ring halogenating alkyl-substituted aromatic isocyanates. 3,439,015, 4-15-69, Cl. 260-453.
McShane, Philip C., to General Refractories Company. Method of bonding a metal plate to a refractory brick with a chloroprene-phenolic adhesive. 3,436,291, 4-1-69, Cl. 156-212.
McSherry, Thomas W., to Pedersen, Jakob S. Pedersen, Peder M., each a twelve and one-half percent, and Lazar, Joseph D., a twenty-five percent. Transformable structures. 3,467,114, 9-16-69, Cl. 135-2.
McSweeney, Daniel J.; and Sbarra, Anthony J., to Consolidated Laboratories, Inc. Test method for assessing ovulatory function. 3,436,186, 4-1-69, Cl. 23-230.
McTaggart, Frederick Kenneth: *See—*
McKinnon, Neil Alexander; Bennett, Colin Earl Garnsworthy; Williams, Lloyd Stuart; and McTaggart, Frederick Kenneth,3,432,296.
McTaggart, James E., to Electrohome Limited. Phase detector. 3,426,149, 2-4-69, Cl. 178-69.5
McTaggart, James E., to Electrohome Limited. Transistor noise suppression network particularly for television receivers. 3,430,068, 2-25-69, Cl. 307-237.
McTaggart, James E., to Electrohome Limited. Direct coupled transistor amplifier-limiter. 3,459,965, 8-5-69, Cl. 307-237.
McTeigue, Hugh P., to Parker Electronics, Inc. Mechanical putter. 3,466,046, 9-9-69, Cl. 273-162.
McVannel, Donald E., to Dow Corning Corporation. Fractionation of organic compounds of high molecular weight. 3,440,264, 4-22-69, Cl. 260-448.2
McVaugh, Charles E.: *See—*
Norman, Eugene, 3,463,884.
McVay, John H.: *See—*
Bowen, Glen L.; Fishman, Milton; McVay, John H.; and Francis, Albert W.,3,439,959.
McVay, Raymon. Fishing lure. 3,462,871, 8-26-69, Cl. 43-42.47
Mc Vey, Charles I.; Mc Connaughey, Newton; Gibson, Harlan D.; and Smith, Jack V., to United States of America, Atomic Energy Commission. Zirconia-based thermoelectric compositions. 3,449,175, 6-10-69, Cl. 136-239.
McVey, Eugene S.: *See—*
Russell, Robert E.; and McVey, Eugene S.,3,447,061.
Mc Vey, George R.; Long, John A.; and Timmons, Richard J., to Scott, O. M., & Sons Company, The. Turf management with azauracils plus fertilizer. 3,462,257, 8-19-69, Cl. 71-76.
McVicker, Graham D.; and Fink, Frank W., to San Diego Aircraft Engineering, Inc. Program control display. 3,419,979, 1-7-69, Cl. 40-64.
McVicker, Robert F.: *See—*
Schaefer, Edward J.; Hansen, Omar, Jr.; and McVicker, Robert F.,3,466,849.
McVoy, Charles F., Jr., to General Electric Company. Housing for electrical apparatus having means to accomodate electrical leads. 3,482,032, 12-2-69, Cl. 174-65.
McWane Cast Iron Pipe Company: *See—*
Jeffery, Warren C.; and Teague, Sidney P., 3,433,509.
Jeffery, Warren C.; and Teague, Sidney P., 3,480,300.
Jeffery, Warren C.; and Teague, Sidney P., 3,480,302.
Mc Whorter, Charles J.; and Clark, Edgar L., to Commercial Solvents Corporation. Process for the preparation of homogeneous acrylate modified alkyd resins. 3,468,826, 9-23-69, Cl. 260-22.
McWhorter, Daniel M.: *See—*
Ericson, Richard E.; and McWhorter, Daniel M.,3,482,576.
McWhorter, John R., Jr.: *See—*
Dietz, John W.; and McWhorter, John R., Jr.,3,441,610.
Mc Whorter, Malcolm M.: *See—*
Bahrs, George S.; and Mc Whorter, Malcolm M.,3,441,833.
McWhorter, Robert W., to Monsanto Company. Fluid-tight electrical connections for electrolytic cells. 3,429,799, 2-25-69, Cl. 204-279.
McWhorter, Wayne F.: *See—*
Shimp, David A.; McWhorter, Wayne F.; and Wolfe, Norman G.,3,432,440.

McWilliam, Gordon L.; Dudley, Dennis W.; Grimwood, Terence J.; and Holmes, John Berwick. Synchro control systems and synchro devices for use therein. 3,443,177, 5-6-69, Cl. 318-18.

McWilliams, Donald E.: *See—*
Eilerman, George E.; Sanguigni, John A.; Kolek, Robert L.; Fasnacht, James J.; and McWilliams, Donald E.,3,437,517.

McWilliams, John A.: *See—*
Miller, Floyd B.; Janich, Martin B.; and McWilliams, John A.,3,446,394.

McWilliams, Joseph E. System for handling bagged mail. 3,429,458, 2-25-69, Cl. 214-6.

McWilliams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,458,064, 7-29-69, Cl. 214-41.

Mc Williams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,464,571, 9-2-69, Cl. 214-6.

McWilliams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,464,572, 9-2-69, Cl. 214-6.

McWilliams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,471,037, 10-7-69, Cl. 214-6.

McWilliams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,474,915, 10-28-69, Cl. 214-6.

McWilliams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,474,916, 10-28-69, Cl. 214-6.

McWilliams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,476,271, 11-4-69, Cl. 214-6.

McWilliams, Robert J.: *See—*
Leeds, Harry R.; and McWilliams, Robert J.,3,424,238.

Meabon, Harold P.: *See—*
Gogarty, William B.; and Meabon, Harold P.,3,443,635.

Meacham, George B. K., to Eaton Yale & Towne Inc. Desmodromic drive arrangement. 3,430,614, 3-4-69, Cl. 123-90.

Mead Corporation , The: *See—*
Forrer, Homer W., 3,469,737.

Mead Corporation, The: *See—*
Benatar, Victor, 3,465,869.
Dornbush, Ross J., 3,478,948.
Ebelhardt, David P., 3,432,202.
Forrer, Homer W.; and Funkhauser, James B., 3,424,301.
Forrer, Homer W., 3,424,368.
Forrer, Homer W., 3,432,073.
Forrer, Homer W., 3,447,717.
Forrer, Homer W.; and Chapman, James R., 3,478,953.
Gentry, Hermond G., 3,431,826.
Gentry, Hermond G., 3,469,673.
Kistner, Oscar J., 3,441,194.
Kite, Wilbur L., Jr., 3,472,674.
Lock, Joseph H., 3,432,085.
Pelletier, Andre Joseph; and Hayward, Garon C., 3,468,698.
Sanders, Frederick W., 3,425,830.
Sanders, Frederick W., 3,434,834.
Sanders, Frederick W., 3,472,673.
Schwalbe, Hellmuth C., 3,450,549.
Stout, James T., Sr.; and Funkhouser, James B., 3,421,684.
Taber, Russell E., 3,426,115.
Wood, Prentice J., 3,430,413.

Mead, David Geoffrey, to Imperial Chemical Industries Limited. Manufacture of halogenated hydrocarbons. 3,480,682, 11-25-69, Cl. 260-648.

Mead, Dennis E: *See—*
Crabtree, Royale R.; Becker, Charles W.; and Mead, Dennis E,3,448,654.

Mead, Edward Jairus; and Scheuerman, Vernal Hardy, to Du Pont de Nemours, E. I., and Company. Organopolysiloxane coated filling materials and the production thereof. 3,454,422, 7-8-69, Cl. 117-138.8

Mead, George A., to Esso Research and Engineering Company. Lubricant composition for highly stressed gears. 3,451,930, 6-24-69, Cl. 252-32.7

Mead, George N. J. Helical reinforced materials and method of making same. 3,449,199, 6-10-69, Cl. 161-47.

Mead, Hansel B.: *See—*
Mixsell, Stephen A.; and Mead, Hansel B.,3,456,192.

Mead Johnson & Company: *See—*
Larsen, Aubrey A.; and Scarborough, Homer C., 3,442,890.
Larsen, Aubrey A.; and Gould, William A., 3,472,870.
Larsen, Aubrey A.; and Uloth, Robert H., 3,478,149.
Lish, Paul Merrill; Weikel, John H.; and Dykstra, Stanley J., 3,435,114.
Mercer, Neil H.; and Bryan, Hugh D., 3,467,754.

Mead, Linda Clarendon: *See—*
Booth, Robert Ben; and Mead, Linda Clarendon,3,463,730.

Mead, Peter, to Daytona Sports Company. Method for production of a protective helmet. 3,444,288, 5-13-69, Cl. 264-161.

Mead, Robert H.: *See—*
Heatwaite, Hewart H.; Mead, Robert H.; and Paul, William T.,3,469,466.

Mead, Stanley L., to Package Containers, Inc. Wire-reinforced tying tape. 3,426,393, 2-11-69, Cl. 24-30.5

Mead, Theodore C., to Texaco Inc. Preparation of dialkyl ketones. 3,468,956, 9-23-69, Cl. 260-595.

Mead, Theodore C.: *See—*
Chafetz, Harry; and Mead, Theodore C.,3,468,944.

Meada, Unpei: *See—*
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru,3,484,334.

Meade, Billy D.: *See—*
Lehman, William E.; Meade, Billy D.; and Featherston, John P.,3,482,824.

Meade Electric Company of Indiana, Inc.: *See—*
Buck, Thomas Olaf, 3,464,218.

Meade, James R. Christmas tree holder and support. 3,454,246, 7-8-69, Cl. 248-47.

Meade, James R. Torsion bar swing construction. 3,459,423, 8-5-69, Cl. 272-86.

Meade, Lynn C., to Standard Mirror Company, Inc. Journal for actuator of glare reducing rear vision mirror. 3,439,977, 4-22-69, Cl. 350-281.

Meade, Ross C.; and Sanders, Charles J., to Paper Converting Machine Company, Inc. Magnetic printing plate hold down means. 3,438,324, 4-15-69, Cl. 101-378.

Meade, William H.; and Whipple, James H. Tractor blade-bucket. 3,481,056, 12-2-69, Cl. 37-117.5

Meador, Ernest E.; and Etheridge, Oliver R., to Staley, A. E., Manufacturing Company. Aerosol valve assembly. 3,424,353, 1-28-69, Cl. 222-402.1

Meador, Jay D., to General Motors Corporation. Cooled thermocouple. 3,451,268, 6-24-69, Cl. 73-343.

Meadors, Dennis A. Method of separating protein into a food concentrate and chemical separator therefor. 3,442,656, 5-6-69, Cl. 99-17.

Meadow, Jacob R.: *See—*
Geschickter, Charles F.; and Meadow, Jacob R.,3,479,345.

Meadow Steel Products, Inc.: *See—*
Jackson, James A., 3,437,018.

Meadows, David F., to Goodrich, B. F., Company, The. Plastic extrusions, methods of using the same, and structures formed therewith. 3,455,080, 7-15-69, Cl. 52-476.

Meadows, Frank William; and Dowley, Arthur, to Service(Engineering)Limited. Manufacture of pottery. 3,435,493, 4-1-69, Cl. 25-22.

Meadows, Geoffrey W., to Du Pont de Nemours, E. I., and Company. Cobalt bonded tungsten carbide. 3,451,791, 6-24-69, Cl. 29-182.8

Meadows, Geoffrey W., to Du Pont de Nemours, E. I., and Company. Preparation of cobalt/tungsten carbide mixtures. 3,486,881, 12-30-69, Cl. 75-0.5

Meadows, Paul L.: *See—*
Delmonte, John; and Meadows, Paul L.,3,428,725.

Meadows, Stanley R., deceased (by Nicholson, Rosetta, administratrix); Valdettaro, Alarcio A.; and Badger, Joe G., to Tarzian, Sarkes, Inc. Multiple contact rotary switch. 3,457,379, 7-22-69, Cl. 200-11.

Meagher, Philip F.: *See—*
McCarthy, Thomas; Meagher, Philip F.; and Norman, Reini J.,3,460,091.

Meagher, Robert, to Du Pont de Nemours, E. I., and Company. Felting needles. 3,432,896, 3-18-69, Cl. 28-4.

Mealy, John T.: *See—*
Naidich, Herbert H.; and Mealy, John T.,3,441,346.

Means, F. W., & Co: *See—*
Wetzler, Justin J., 3,425,306.

Means, F. W., & Co..: *See—*
Fried, Robert A.; and Means, F. W., & Co..,3,423,906.

Means, John A., to Time, Incorporated. Dual wire paper forming apparatus and suction box therefor. 3,438,854, 4-15-69, Cl. 162-303.

Mearl Corporation, The: *See—*
Greenstein, Leon M., 3,481,663.
Quinn, Charles A.; Rieger, Carl J.; and Bolomey, Rene A., 3,437,515.

Mears, Francis C., to Bunker-Ramo Corporation, The. Speed measuring system. 3,465,223, 9-2-69, Cl. 318-72.

Mears, James W.; and Merdinyan, Philip H., to Grinnell Corporation. Firefighting foam generator. 3,420,310, 1-7-69, Cl. 169-15.

Mears, Norman B., to Buckbee-Mears Company. Self supporting shadow mask for colored TV picture tubes. 3,479,546, 11-18-69, Cl. 313-85.

Mears, Norman B., to Buckbee-Mears Company. Shadow mask mounted in glass envelope of color TV picture tube. 3,484,638, 12-16-69, Cl. 313-85.

Mears, William G.; Schmidt, Karl R.; and vander Straeten, Herman J., to Mobil Oil Corporation. Compression testing method and apparatus. 3,421,367, 1-14-69, Cl. 73-116.

Mease, Ralph T.: *See—*
Cooley, Warren K.; and Mease, Ralph T.,3,452,110.
Measurement Research Center, Inc.: *See—*
Lindquist, Everet F., 3,485,489.
Mc Millin, John V., 3,486,040.
Measurement Systems, Inc.: *See—*
Mehr, Morton H., 3,454,920.
Measuring & Scientific Equipment Limited: *See—*
Harbott, Norman Richard, 3,454,217.
Meaux, Dudley Joseph: *See—*
Brown, Norman F.; Tamplen, Jack W.; and Meaux, Dudley Joseph,3,420,095.
Meazzi, Remo; Caldironi, Franco; and Olivieri, Attilio. Stand for supporting and moving a pair of cymbal plates. 3,464,305, 9-2-69, Cl. 84-422.
Mebane, Alexander, to Ortho Pharmaceutical Corporation. 1-(Tetrahydro-2-pyranyloxy)methl-2-methyl-3- ethyl-4-phenyl-4-cyclohexene. 3,449,373, 6-10-69, Cl. 260-345.9
Mebwarb, Gunther: *See—*
Hafner, Karl-Heinz; Fischer, Edgar; and Mebwarb, Gunther,3,442,860.
Mec-O-Matic, Inc.: *See—*
Green, Robert F., Jr., 3,467,021.
Mecano-Bundy G.m.b.H.: *See—*
Bennewitz, Jurgen, 3,427,821.
Mecasta Corporation, The: *See—*
Nava, Mario, 3,462,933.
Mech, Christian: *See—*
Chaboseau, Jacques; and Mech, Christian,3,476,449.
Mech-Tronics Corporation: *See—*
McNabb, Louis A., 3,433,922.
McNabb, Louis, A., 3,433,923.
Mechalke, Klaus: *See—*
Prillwitz, Hans; Mechalke, Klaus; Kossler, Karl-Heinz; and Seyfarth, Bodo,3,459,275.
Mechanical Handling Systems, Inc.: *See—*
Bishop, Leonard J., 3,425,361.
Bishop, Leonard J., 3,437,054.
Klamp, Paul, 3,426,700.
Mechanical Systems, Inc.: *See—*
Seeley, James E., 3,448,745.
Mechanics for Electronics: *See—*
Montagu, Jean I., 3,434,082.
Mechanics Research, Inc.: *See—*
Gularte, Ronald C.; and Platus, David L., 3,435,919.
Platus, David L.; and Gularte, Ronald C., 3,426,869.
Mechanische Baumwoll-Spinnerei und Weberei, Augsburg: *See—*
Winter, Nikolaus; and Benedict, Janos, 3,426,518.
Mechanism Limited: *See—*
Duck, Henry J., 3,446,948.
Mechanized Science Seals, Inc.: *See—*
Hamren, Victor E., 3,457,795.
Meck-Pick, Inc.: *See—*
Jones, Eddie M., Jr., 3,431,715.
Meckbach, Heinrich: *See—*
Hess, Kurt; Meckbach, Heinrich; Brandt, Karl; and Wolz, Hermann,3,467,536.
Mecke, Rolf: *See—*
Braun, Willy; and Mecke, Rolf,3,483,179.
Meckel, Paul T., to Physics Technology Labs., Inc. Helical barbed tape unit. 3,463,455, 8-26-69, Cl. 256-8.
Meckl, Heinz: *See—*
Himmelmann, Wolfgang; Riebel, Alexander; Zenner, Karl-Friedrich; and Meckl, Heinz,3,480,440.
Nittel, Fritz; Meckl, Heinz; Puschel, Walter; and Ulrich, Hans,3,437,483.
Mecklenburg, Paul: *See—*
Kretzmer, Ernest R.; Mecklenburg, Paul; Rice, Donald W.; and Ryan, William,3,421,149.
Mecklenburg, Paul; and Young, Lawrence H., to Bell Telephone Laboratories, Incorporated. Multiple shift register arrangement. 3,462,749, 8-19-69, Cl. 340-174.
Meckler, Gershon, to Lithonia Lighting, Inc. Comfort conditioning system. 3,420,439, 1-7-69, Cl. 236-13.
Meckler, Gershon, to Lithonia Lighting Inc. Comfort conditioning system. 3,424,233, 1-28-69, Cl. 165-48.
Meckley, Daniel G., III; and Vonderhaar, Arthur W., to Tappan Company, The. Electric and gas self-cleaning oven. 3,423,568, 1-21-69, Cl. 219-279.
Meckley, Frederick William: *See—*
Hoffman, Richard Alan; May, Joe Turner; and Meckley, Frederick William,3,437,461.
Mecklin, Charles D., to International Harvester Company. Cotton picker spindle moistener assembly. 3,423,913, 1-28-69, Cl. 56-41.
Mecklin, Charles D.; and Francis, James M., to International Harvester Company. Fluid spraying system. 3,463,397, 8-26-69, Cl. 239-126.
Mecklin, Charles D.; and Francis, James M., to International Harvester Company. Drop panel door fastener. 3,479,766, 11-25-69, Cl. 49-236.
Medal, Einar, to United States of America, Atomic Energy Commission. Thermostatic valve. 3,455,506, 7-15-69, Cl. 236-93.
Medalist Industries, Inc.: *See—*
Massey, James M.; and Pitts, Robert C., Sr., 3,451,187.
Meddings, Basil; Weizenbach, Bauke; Evans, David John Ivor; and Mackiw, Vladimir Nicolaus, to Sherritt Gordon Mines Limited. Process for the production of nickel refractory oxide powders and product thereof. 3,469,967, 9-30-69, Cl. 75-0.5
Meddleycott, Clyde E.: *See—*
Weinstein, James D.; Downer, Robert B.; Meddleycott, Clyde E.; and Meddleycott, William R.,3,456,270.
Meddleycott, William R.: *See—*
Weinstein, James D.; Downer, Robert B.; Meddleycott, Clyde E.; and Meddleycott, William R.,3,456,270.
Medeiros, Francis Joseph: *See—*
Graf, Walter L.; and Medeiros, Francis Joseph,3,436,797.
Medeiros, Joe Lewis. Oven for cooking food using coals and stored heat. 3,478,674, 11-18-69, Cl. 99-347.
Medell, Irving Bridgman, to Ethicon, Inc. Tubular prosthetic implant having helical thermoplastic wrapping therearound. 3,479,670, 11-25-69, Cl. 3-1.
Medenblik, Henri J.: *See—*
Nash, John E.; Medenblik, Henri J.; Thomas, Lyndon A.; and Wilstead, Graham H.,3,438,201.
Meder, George A. Fishing reel display bracket. 3,433,446, 3-18-69, Cl. 248-316.
Meder, Siegfried R.: *See—*
White, Alan J.; and Meder, Siegfried R.,3,446,279.
Medford, Albert; and Wilson, Bernard, to General Electric Company Limited, The. Mode suppressing filters in aerial feeders. 3,421,086, 1-7-69, Cl. 325-24.
Medford, Doyle M. Lettuce crisper and method utilizing same. 3,424,594, 1-28-69, Cl. 99-154.
Medhurst, Ralph C., to Standard Oil Company (Indiana). Process for forming solid articles from expandable polymer. 3,435,103, 3-25-69, Cl. 264-53.
Medic, Nikolaj: *See—*
Donges, Ernst; Kohlhaas, Rudolf; Hloch, Albert; and Medic, Nikolaj,3,420,622.
Medic, Nikolay: *See—*
Hloch, Albert; Kohlhaas, Rudolf; Medic, Nikolay; and Neises, Helmut,3,445,257.
Medica, Joseph J.: *See—*
Mod, George W.; Medica, Joseph J.; and Bobzin, James E.,3,470,666.
Medical Data Services, Inc.: *See—*
Knox, Austin A., 3,445,116.
Medical Devices Corporation: *See—*
Balhorn, Robert J.; and Herrera, Mario I., 3,483,621.
Medical Electroscience Inc.: *See—*
Gonzalez, Frank A., 3,480,015.
Medical Laboratory Automation, Inc.: *See—*
Gross, William; and Stewart, Wellington B., 3,458,287.
Medical Specialties, Inc.: *See—*
Gaylord, John F., Jr., 3,474,781.
Medical Supply Company: *See—*
Avery, Carl F., Jr.; Pearson, Ernest A.; and Winters, Lloyd V., 3,461,535.
Avery, Carl Frederick; and Brewer, Robert J., 3,450,129.
Baermann, Walter P., 3,469,685.
Pearson, Ernest A., 3,475,786.
St. Clair, Gordon P., 3,421,502.
Medico Industries Inc.: *See—*
Delaney, John J., 3,421,391.
Medicor Muvek: *See—*
Ban, Tamas; Horvath, Lorand; Kaffka, Karoly; and Nadai, Bela, 3,453,438.
Medill, Edwin C., to Taccone Corporation. Cylinder mechanism for molding machines. 3,453,656, 7-1-69, Cl. 164-212.
Medimeter Corporation, The: *See—*
King, Charles Lee; and Johnson, John A., 3,464,359.
Medimpex Gyogyszerkulkereskedelmi Vallalat: *See—*
Medveczky, Endre, 3,452,135.
Medisch, George N.: *See—*
Quigley, Richard E., Jr.; and Medisch, George N.,3,471,274.
Meditz, Ludwig F. Helicopter device. 3,474,987, 10-28-69, Cl. 244-4.
Medkeff, Arthur T.: *See—*
Nye, Norman H., 3,486,291.
Medlar, Lewis A., to Fox Products Company. Battery charger with low current cutoff. 3,443,191, 5-6-69, Cl. 320-24.
Medlen, John H. Device for extracting from oil bearing shale. 3,448,794, 6-10-69, Cl. 165-45.
Medley, Edward H., to Pneumo Dynamics Corporation. Solenoid valve. 3,448,960, 6-10-69, Cl. 251-129.
Medley, Jackson C.: *See—*
Breon, Pearl L.; Kress, Ralph H.; Medley, Jackson C.; Eilers, Elvin L.; and Kostas, James M.,3,486,576.
Medley, Jackson C., to Caterpillar Tractor Company. Hydraulic dual source steering system for vehicles. 3,439,768, 4-22-69, Cl. 180-79.2

Kress, Ralph H.; Medley, Jackson C.; and Merritt, Donald E.,3,427,075.
Medley, Joseph, to Metalitho Limited. Containers. 3,456,837, 7-22-69, Cl. 220-43.
Medlin, Theodore W. Valve operated liquid dispenser. 3,425,603, 2-4-69, Cl. 222-517.
Medlinski, William W., to Bendix Corporation, The. Fail safe signal transmitting network. 3,487,393, 12-30-69, Cl. 340-213.
Medney, Jonas, to Koppers Company, Inc. Method for forming filament reinforced resin shells of non-uniform cross section. 3,449,484, 6-10-69, Cl. 264-159.
Medney, Jonas, to Koppers Company, Inc. Apparatus and method for filament winding. 3,471,322, 10-7-69, Cl. 117-115.
Mednick, Charles: *See*—
Morrow, John H.; and Mednick, Charles,3,420,386.
Morrow, John H.; and Mednick, Charles,3,480,503.
Medow, Robert S. Adjustable arch structures. 3,421,269, 1-14-69, Cl. 52-86.
Medsker, Goerge A., to Gasflux Company, The. Fluxed gas for resistance and induction welding and brazing. 3,469,304, 9-30-69, Cl. 29-494.
Medtronic, Inc.: *See*—
Greatbatch, Wilson, 3,478,746.
Schwartz, Seymour I.; Wingrove, Robert C.; and Anderson, James A., 3,421,511.
Medveczky, Endre, to Medimpex Gyogyszerkulkereskedelmi Vallalat. Allergy diagnostic skin test with carbamide or thiocarbamide and lipophilic adjuvants. 3,452,135, 6-24-69, Cl. 424-9.
Medved, David B.; and Garasi, Louis A., to Electro-Optical Systems, Inc. Production of semiconductor devices by use of ion beam implantation. 3,445,926, 5-27-69, Cl. 29-578.
Medved, David B.: *See*—
Garasi, Louis; Kaye, Stephen; and Medved, David B.,3,445,660.
Medved, Thomas M.: *See*—
Ligon, Elmer R.; and Medved, Thomas M.,3,484,517.
Medvedenko, Arkady Markovich: *See*—
Putyato, Jury Sergeevich; Medvedenko, Arkady Markovich; Martsinkevich, Alexandr Vladimirovich; and Ashurkov, Evstafy Borisovich,3,487,352.
Medwedeff, Fred M.: *See*—
Best, Richard G.; and Medwedeff, Fred M.,3,469,099.
Medwid, John: *See*—
Clark, Kendall; Herrmann, Theodor; Lattin, Jocelyn C.; and Medwid, John,3,465,408.
Mee, Charles Denis: *See*—
Chang, Hsu; Mee, Charles Denis; Voegeli, Otto; and Middelhoek, Simon,3,440,623.
Mee, Jack E., to North American Rockwell Corporation. Growing garnet on non-garnet single crystal. 3,429,740, 2-25-69, Cl. 117-106.
Meeder, Raymond L.; and Kus, Joseph E., to Nuclear-Chicago Corporation. Liquid scintillation sample standardization apparatus. 3,480,778, 11-25-69, Cl. 250-106.
Meehan, Clarence L., to Illinois Tool Works Inc. Ceiling fastener. 3,463,522, 8-26-69, Cl. 287-189.35
Meehan, John F. Ladder leveler. 3,484,814, 12-16-69, Cl. 182-204.
Meehan, John L.: *See*—
Andrews, William R.; and Meehan, John L.,3,423,339.
Meehl, David W.: *See*—
Schreyer, Kenneth D.; and Meehl, David W.,3,432,147.
Meek, Daisy Lockewitz: *See*—
Meek, De Witt T., Jr.,3,473,623.
Meek, De Witt T., Jr., deceased0 (by Meek, Daisy Lockewitz; acting executrix). Remote control golf bag cart. 3,473,623, 10-21-69, Cl. 180-79.1
Meek, George W.: *See*—
Munters, Carl Georg; and Meek, George W.,3,470,280.
Meek, George W., to Munters & Co. Method for continuously forming corrugated sheets. 3,471,600, 10-7-69, Cl. 264-92.
Meek, James M.; Lokerson, David T.; and Briggs, Gary A., to United States of America, Army. Impact damper and antenna release mechanisms for airborne radio recovery beacon. 3,465,251, 9-2-69, Cl. 325-112.
Meek, John: *See*—
Linden, Henry R.; Baker, Bernard S.; Meek, John; and Allen, Arthur C.,3,438,759.
Meek, William H., Jr.: *See*—
Towle, Jack C.; Du Rose, Arthur H.; Meek, William H., Jr.; and Block, Dale G.,3,428,536.
Meeker, David A.; Grunewald, Ernst; and Vallor, Ben J., to Hobart Manufacturing Company, The. Apparatus for washing glasses, dishes and the like. 3,465,761, 9-9-69, Cl. 134-58.
Meeker, David A.: *See*—
Geiger, Russell C.; Geiger, Paul B.; and Meeker, David A.,3,430,861.
Meeker, Ralph L. Soil sampling auger. 3,440,886, 4-29-69, Cl. 73-424.
Meeker, Thrygve: *See*—
Herriott, Donald R.; Jones, Joseph S.; Meeker, Thrygve; and Reznicek, Kurt,3,453,166.
Meeks, Gene A.: *See*—
Hirsch, Robert L.; and Meeks, Gene A.,3,448,315.
Meeks, James W.: *See*—
Otstot, Roger S.; Bland, Durwood Gene; and Meeks, James W.,3,440,388.
Meeks, Lawrence A.: *See*—
Grinninger, Lowell D.; and Meeks, Lawrence A.,3,448,093.
Meeks, Thomas, to Miller, Ross M., Jr. Rocking bed. 3,439,363, 4-22-69, Cl. 5-109.
Meer, Winfried; and Hargasser, Hans, to Siemens Aktiengesellschaft. High frequency transistor with sloping emitter junction. 3,428,873, 2-18-69, Cl. 317-235.
Meer, Winfried; Hargasser, Hans; and Schembs, Wolfgang, to Siemens Aktiengesellschaft. Mesa transistor with an asymmetrical U- shape base electrode. 3,450,964, 6-17-69, Cl. 317-235.
Meer, Winfried: *See*—
Ruchardt, Hugo; Hargasser, Hans; and Meer, Winfried,3,480,845.
Meers, Joseph T.: *See*—
Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T.,3,438,858.
Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T.,3,439,073.
Meersand, Kenneth, 1/2 to Mester, Jack W. Cooling system for a sewing machine needle. 3,483,836, 12-16-69, Cl. 112-218.
Mees, Arthur Allan; and Olson, Frank Wesley, Jr., to Colgate-Palmolive Company. Method of making a shampoo. 3,476,489, 11-4-69, Cl. 424-164.
Mees, Robert D.: *See*—
Derbyshire, Charles E.; Mees, Robert D.; and Mittermaier, Armin F.,3,467,929.
Mittermaier, Armin F.; and Mees, Robert D.,3,450,190.
Meetze, Grover C., Jr. Servo-system and multiple-use building including the same. 3,469,354, 9-30-69, Cl. 52-1.
Meeussen, Louis Achilles: *See*—
Cassiers, Paul Maria; Rott, Andre; Meeussen, Louis Achilles; and Van Engeland, Jozef Leonard,3,472,676.
Schmiedel, Ulrich; Meeussen, Louis Achille; Cassiers, Paul Maria; and Hart, Rene Maurice,3,441,947.
Mefina S.A.: *See*—
Casas-Robert, Ramon, 3,428,008.
Fresard, Marcel; and Baruffa, Olindo, 3,435,788.
Fresard, Marcel, 3,440,986.
Lagier, Jean-Claude, 3,463,989.
Lagier, Jean-Claude, 3,466,521.
Simmen, Robert, 3,465,676.
Megar, George H.; and Hendrix, Arnett, to Tennessee Valley Authority. Method for decreasing sludge formation in phosphorus furnace sump. 3,428,430, 2-18-69, Cl. 23-223.
Megargel, Leland R.: *See*—
Andre, Stephen N.; Hettich, Ronald D.; and Megargel, Leland R.,3,434,142.
Heath, Walter S.; and Megargel, Leland R.,3,434,077.
Mege, Paul Andre: *See*—
Bain, Louis Marie Joseph Pierre; and Mege, Paul Andre,3,463,111.
Megel, Laurence D. Oil processor apparatus and method of separating oil mixture components. 3,432,426, 3-11-69, Cl. 208-187.
Meggle, Josef A.: *See*—
Kuipers, Arie, 3,423,208.
Meggs, Daniel Henry: *See*—
Ryan, John W.; MacMeekin, Robert A.; and Meggs, Daniel Henry,3,475,854.
Meginnes, George B.: *See*—
Emmerson, Calvin W.; and Meginnes, George B.,3,446,480.
Megison, Donald R.; and Barton, Stanley, to Procter & Gamble Company, The. Sanitary napkin. 3,430,630, 3-4-69, Cl. 128-290.
Megla, Gerhard K.; and Ludovici, Bruno F., to Corning Glass Works. Photochromic glass image display and storage system. 3,428,396, 2-18-69, Cl. 353-29.
Megla, Gerhard K.: *See*—
Ludovici, Bruno F.; and Megla, Gerhard K.,3,431,048.
Megles, John E., to Corning Glass Works. Method of differential chemical tempering glass and article. 3,445,316, 5-20-69, Cl. 161-1.
Megley, James W.: *See*—
Beaulieu, Adrian A.; McKenney, James L.; Megley, James W.; and Munroe, Lawrence M.,3,422,248.
Megna, Ignazio Salvatore; and Petropoulos, John Christos, to American Cyanamid Company. Bis-imide containing diepoxide compounds. 3,450,711, 6-17-69, Cl. 260-326.
Megow, Lawrence F.: *See*—
Pechacek, Raymond E.; Clay, Eugene J.; and Megow, Lawrence F.,3,423,820.
Megowen, William John, 10% to La Lone, B. H., Company, Inc., The. Method of agglomerating. 3,447,962, 6-3-69, Cl. 127-63.
Megson, Frederic H.; and Beachem, Michael T., to United States of America, Army, mesne. Treatment of fabrics with anthranilic acid and silver nitrate solutions. 3,464,847, 9-2-69, Cl. 117-121.

Megson, Frederic H.: *See—*
O'Brien, Samuel J.; Beachem, Michael T.; and Megson, Frederic H.,3,482,927.
Megson, Frederic Houghton; Beachem, Michael Thomas; and Stockel, Richard Frederick, to American Cyanamid Company. Chloro-hydroxy-polyfluorocycloalkenones. 3,456,010, 7-15-69, Cl. 260-567.6
Meguro, Takashi: *See—*
Yamazaki, Akihiro; Meguro, Takashi; Kumashiro, Izumi; and Takenishi, Tadao,3,454,559.
Mehal, Edward W.: *See—*
Shaw, Don W.; and Mehal, Edward W.,3,425,879.
Mehalchick, Emil J.: *See—*
Faria, Sixdeniel; and Mehalchick, Emil J.,3,480,819.
Mehalso, Paul J., to Standard Oil Company (Indiana). Stabilized terephthalate compositions. 3,445,504, 5-20-69, Cl. 260-475.
Mehdizadeh, Parviz, to Continental Oil Company. Corrosion fatigue testing apparatus and procedure. 3,427,873, 2-18-69, Cl. 73-91.
Meheen, Homayoun Joe. Method for reinforcing steel pipe piling in situ and the resultant piling. 3,483,707, 12-16-69, Cl. 61-46.
Mehelich, Edward W.: *See—*
Boskovich, Boris; Lindahl, John H.; Mehelich, Edward W.; and Mellen, David L.,3,440,504.
Mehl, Daniel L.: *See—*
Fields, Davis S., Jr.; and Mehl, Daniel L.,3,420,717.
Mehl, Thomas L. Decorative furpiece. 3,466,663, 9-16-69, Cl. 2-65.
Mehl, Thomas L. Decorative furpiece. 3,479,667, 11-25-69, Cl. 2-65.
Mehlig, Heinrike; and Walter, Christian, to Institut fur Energetik. Training system for the operation of industrial plants. 3,451,147, 6-24-69, Cl. 35-13.
Mehltretter, Charles L., to United States of America, Agriculture. Hydrazides of fatty quaternary ammonium salts of glycine as retention agents. 3,477,904, 11-11-69, Cl. 162-175.
Mehltretter, Charles L.: *See—*
Zagoren, Bonnie L.; Otey, Felix H.; and Mehltretter, Charles L.,3,433,752.
Mehmedbasich, Enver: *See—*
Lindstrom, Eddie G.; and Mehmedbasich, Enver,3,450,715.
Mehmedbasich, Enver, to Chevron Research Company. Corrosion inhibitors. 3,458,295, 7-29-69, Cl. 44-62.
Mehmedbasich, Enver, to Chevron Research Company. Sulfonyl substituted terpolymer fuel detergents. 3,459,518, 8-5-69, Cl. 44-63.
Mehmedbasich, Enver, to Chevron Research Company. Polyimides of olefin-maleic anhydride copolymers as diesel fuel additives. 3,471,458, 10-7-69, Cl. 260-78.5
Mehmedbasich, Enver, to Chevron Research Company. Broad spectrum fuel additives. 3,480,414, 11-25-69, Cl. 44-72.
Mehmedbasich, Enver. Fluoborate salts of hydrocarbyl alkylene polyamines. 3,485,601, 12-23-69, Cl. 44-58.
Mehmedbasich, Enver; and Honnen, Lewis R. Maleic anhydride copolymer succinimides of long chain hydrocarbon amines. 3,455,827, 7-15-69, Cl. 252-32.7
Mehne, Arthur; Harnisch, Heinz; Diskowski, Herbert; and Frorath, Friedrich-Karl, to Knapsack Aktiengesellschaft. Process for the electrolytic production of manganese dioxide with frequent replacement of smooth anodes. 3,455,798, 7-15-69, Cl. 204-83.
Mehner, Wolf, to Metallgesellschaft Aktiengesellschaft. Liquid-liquid extractor. 3,433,599, 3-18-69, Cl. 23-270.5
Mehnert, Gottfried. Transporting apparatus for blow molded articles. 3,447,680, 6-3-69, Cl. 209-73.
Mehr, Edna A.: *See—*
Mehr, Jacob A.,3,480,304.
Mehr, Hans P., to General Electric Company. Ejector nozzle. 3,467,312, 9-16-69, Cl. 239-127.3
Mehr, Jacob A., deceased0 (by Mehr, Edna A.; administratrix), to Dazor Manufacturing Corporation. Swivel joint for a lamp. 3,480,304, 11-25-69, Cl. 287-14.
Mehr, Morton H., to Measurement Systems, Inc. Isometric control device. 3,454,920, 7-8-69, Cl. 338-5.
Mehrbrodt, Alfonso W.; and Trivisonno, Nicholas M., to Goodrich, B. F., Company, The. Fatigue testing apparatus. 3,443,424, 5-13-69, Cl. 73-92.
Mehron, Martin E.: *See—*
Geddry, Bernard L.; Mehron, Martin E.; and Cote, Maurice F.,3,474,358.
Mehrtens, David Henry, to Cossor, A. C., Limited. Capacitor biased long-tailed pair detector circuit. 3,457,518, 7-22-69, Cl. 329-101.
Mehrtens, David H., to Cossor, A. C., Limited. Decoder for interval encoded pulse pairs. 3,475,752, 10-28-69, Cl. 343-6.8
Mehta, Dinshaw D.; and Christensen, Axel, to Chemical Construction Corporation. Compression of gaseous streams containing carbon monoxide. 3,430,451, 3-4-69, Cl. 62-85.
Mehta, Maharaj K. Encapsulation of powders. 3,446,404, 5-27-69, Cl. 222-225.
Mehta, Parvez Naoroji, to Imperial Chemical Industries Limited. Processes for producing crimped heterofilament yarns. 3,462,938, 8-26-69, Cl. 57-157.
Mehta, Povindar K.; and Shah, Manesh J., to International Business Machines Corporation. External standard method of X-ray diffraction analysis for determining the percentage of compounds in cement clinker. 3,428,802, 2-18-69, Cl. 250-51.5
Mei, Kenneth K., to University of California, The Regents of the. Broadside log-periodic antenna. 3,460,150, 8-5-69, Cl. 343-792.5
Meidensha Electric Mfg., Co., Ltd.: *See—*
Ishizaki, Akira, 3,449,652.
Suzuki, Shiro, 3,475,655.
Meier, Donal A., to National Cash Register Company, The. Two magnetic element memory per bit. 3,435,434, 3-25-69, Cl. 340-174.
Meier, Donal A., to National Cash Register Company, The. Method of making rod memory solenoid construction. 3,440,719, 4-29-69, Cl. 29-604.
Meier, Donal A., to National Cash Register Company, The. Sensing means for a magnetic memory system. 3,478,338, 11-11-69, Cl. 340-174.
Meier, Donal A., to National Cash Register Company, The. Two element per bit memory having non-destructive read out and ternary storage capability. 3,484,762, 12-16-69, Cl. 340-174.
Meier, Ernest. Shoe tie retainer. 3,473,198, 10-21-69, Cl. 24-119.
Meier, Ernst, to Teves, Alfred G.m.b.H. Dual-network disk brake. 3,424,282, 1-28-69, Cl. 188-152.
Meier, Ernst, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Brake-housing assembly for disk brakes. 3,438,466, 4-15-69, Cl. 188-73.
Meier, Ernst, to Teves, Alfred, GmbH. Fixed-yoke disk brake. 3,456,765, 7-22-69, Cl. 188-106.
Meier, Ernst, to Teves, Alfred, G.m.b.H. Automatic self-adjusting mechanism for disk brakes. 3,482,661, 12-9-69, Cl. 188-196.
Meier, Ernst, to Teves, Alfred, G.m.b.H. Disk brake. 3,482,665, 12-9-69, Cl. 188-196.
Meier, Eva Marianne: *See—*
Meier, Hermann Oskar, deceased, 3,428,253.
Meier, Eva Marianne: *See—*
Meier, Hermann Oskar; Meier, Helen Joan Mary, nee James; Meier, Eva Marianne; Meier, Wolfgang Alexander; Meier, Manfred Julian, heirs of said; and Meier, Hermann Oskar, deceased,3,439,874.
Meier, Frank G.: *See—*
Vandegaer, Jan E.; and Meier, Frank G.,3,464,926.
Meier, Fredrice: *See—*
Braun, Philip N.; and Meier, Fredrice,3,448,869.
Meier, Hans Justus: *See—*
Hollendieck, Hans; Meier, Hans Justus; and Rutzen, Erich Adolf Wilhelm,3,462,099.
Meier, Hans, to Joh Vaillant KG. Arrangement in a hot-water circulation heating with domestic water heater. 3,426,971, 2-11-69, Cl. 237-8.
Meier, Helen Joan Mary: *See—*
Meier, Hermann Oskar, deceased, 3,428,253.
Meier, Helen Joan Mary, nee James: *See—*
Meier, Hermann Oskar; Meier, Helen Joan Mary, nee James; Meier, Eva Marianne; Meier, Wolfgang Alexander; Meier, Manfred Julian, heirs of said; and Meier, Hermann Oskar, deceased,3,439,874.
Meier, Hermann Oskar, deceased, 1/4 each to Meier, Helen Joan Mary Meier, Eva Marianne Meier, Wolfgang Alexander Meier, Manfred Julian. Rail attachment. 3,428,253, 2-18-69, Cl. 238-349.
Meier, Hermann Oskar: *See—*
Meier, Hermann Oskar; Meier, Helen Joan Mary, nee James; Meier, Eva Marianne; Meier, Wolfgang Alexander; Meier, Manfred Julian, heirs of said; and Meier, Hermann Oskar, deceased,3,439,874.
Meier, Hermann Oskar; Meier, Helen Joan Mary, nee James; Meier, Eva Marianne; Meier, Wolfgang Alexander; Meier, Manfred Julian, heirs of said; and Meier, Hermann Oskar, deceased. Rail fastening arrangement. 3,439,874, 4-22-69, Cl. 238-349.
Jockers, Kurt; Meier, Hermann; and Taglinger, Ludwig,3,446,587.
Meier, Hermann; Eisenmann, Joseph; Dohse, Ruthard; and Ahlert, Wilhelm. Method of welding rails to produce a prestressed rail. 3,456,333, 7-8-69, Cl. 29-487.
Meier, James C.: *See—*
Andrea, John J.; Meier, James C.; and Hogue, Noel E.,3,420,990.
Meier, Johann, to Mettler Instrumente AG. Precision balance. 3,463,258, 8-26-69, Cl. 177-165.
Meier, Johann, to Mettler Instrumente AG. Precision balance with dual magnetic damping. 3,472,327, 10-14-69, Cl. 177-185.
Meier, Johann, to Mettler Instrumente AG. Precision balance. 3,483,935, 12-16-69, Cl. 177-178.
Meier, John A., to Dick, A. B., Company. Article feeding construction. 3,446,500, 5-27-69, Cl. 271-62.
Meier, Karl-Heinz: *See—*
Becker, Ernst; Notz, Karl; and Meier, Karl-Heinz,3,443,445.
Meier, Manfred Julian: *See—*
Meier, Hermann Oskar, deceased, 3,428,253.

Meier, Manfred Julian, heirs of said: *See—*
Meier, Hermann Oskar; Meier, Helen Joan Mary, nee James; Meier, Eva Marianne; Meier, Wolfgang Alexander; Meier, Manfred Julian, heirs of said; and Meier, Hermann Oskar, deceased,3,439,874.
Meier, Otto: *See—*
Loner, Aldo; and Meier, Otto,3,456,341.
Meier, Paul, to Heid, Hans. Carriage for machines adapted to remove bark and branches from tree trunks. 3,457,973, 7-29-69, Cl. 144-2.
Meier, Peter. Rotary switch. 3,487,179, 12-30-69, Cl. 200-11.
Meier, Rudolf H., to Philco-Ford Corporation. Stabilized sight system employing autocollimation of gyro-stabilized light beam to correct yaw and pitch orientation of coupled sight line and servo system mirrors. 3,446,980, 5-27-69, Cl. 250-231.
Meier, Werner, to Oerlikon-Buhrle Holding Ltd. Hydraulic copying attachment for a lathe. 3,461,753, 8-19-69, Cl. 82-14.
Meier, Willi, to G. M. Pfaff AG. Zigzag sewing machine with control means for producing buttonholes. 3,460,496, 8-12-69, Cl. 112-158.
Meier, Willi, to Pfoff, G. M., A.G. Control apparatus for zigzag sewing machines, in particular for the production of buttonholes. 3,479,977, 11-25-69, Cl. 112-158.
Meier-Windhorst, Christian August; Schraud, Alfred; and Vogeler, Helmut, to Artos, Dr., Ing., Meier-Windhorst K.G. Process and apparatus for the wet treatment of lengths of textile materials and the like. 3,451,077, 6-24-69, Cl. 8-151.
Meier, Wolfgang Alexander: *See—*
Meier, Hermann Oskar, deceased, 3,428,253.
Meier, Wolfgang Alexander: *See—*
Meier, Hermann Oskar; Meier, Helen Joan Mary, nee James; Meier, Eva Marianne; Meier, Wolfgang Alexander; Meier, Manfred Julian, heirs of said; and Meier, Hermann Oskar, deceased,3,439,874.
Meierbachtol, Mark J. Liquid fuel atomizing attachment for intake manifolds. 3,432,281, 3-11-69, Cl. 48-180.
Meierhofer, Hugo. Carriage for transporting warps. 3,433,499, 3-18-69, Cl. 280-79.1
Meigs, Frederick M.; Micchelli, Albert L.; and Wasserman, David, to Merck & Co., Inc. Polymers of pyroglutamic acid derivatives. 3,475,386, 10-28-69, Cl. 260-78.
Meijer, Christoffel H.: *See—*
Bevilacqua, Frank; and Meijer, Christoffel H.,3,437,556.
Meijer, Hermanus, to Shell Oil Company. Apparatus for depositing a layer of flowable material underwater. 3,446,027, 5-27-69, Cl. 61-63.
Meijer, Riksterus Auguste Johannes Maria; and T'jampens, Germin Remi, to U.S. Philips Company, Inc., mesne. Method of manufacturing incandescent lamps having a transport gas filling. 3,484,146, 12-16-69, Cl. 316-20.
Meijer, Roelf Jan, to U.S. Philips Corporation. Coupling device for dual rotary shafts. 3,454,779, 7-8-69, Cl. 290-1.
Meijer, Roelf Jan; Fokker, Herman; and van Witteveen, Roland Anton Johan Otto, to U.S. Philips Corporation, mesne. Thermodynamic engine. 3,456,438, 7-22-69, Cl. 60-24.
Meijer, Roelf Jan; and van Witteveen, Roland Anton Johan Otto, to U.S. Philips Corporation, mesne. Thermodynamic engine. 3,442,079, 5-6-69, Cl. 60-24.
Meijers, Antonie Herman, to Inland Steel Company. End construction for shipping containers. 3,443,735, 5-13-69, Cl. 229-14.
Meiji Seika Kaisha, Ltd.: *See—*
Seki, Shigeo; and Kamata, Kazuyuki, 3,472,896.
Meijs, Franciscus H.: *See—*
Bezemer, Cornelis; Meijs, Franciscus H.; van Zanten, Marinus; and Wittenwyler, Clifford V.,3,476,189.
Meiklejohn, I. G., & Company Limited: *See—*
Meiklejohn, Ian G., 3,471,162.
Meiklejohn, Ian G., to Meiklejohn, I. G., & Company Limited. Hand-propelled wheeled carriers. 3,471,162, 10-7-69, Cl. 280-47.26
Meiller, Francois, to Produits Chimiques Pechiney-Saint-Gobain. Purification of trioxane. 3,475,454, 10-28-69, Cl. 260-340.
Meiller Research, Inc.: *See—*
Meiller, Theodore J., 3,470,879.
Meiller, Theodore J., to Meiller Research, Inc. Orthopedic shoe construction. 3,470,879, 10-7-69, Cl. 128-583.
Meimberg, Julius: *See—*
Wiesnec, Gottfried, 3,449,972.
Meincke, Edmund R., to General Tire & Rubber Company, The. Process for the preparation of large- particle-size latices. 3,468,833, 9-23-69, Cl. 260-29.7
Meindl, Howard R.: *See—*
Gyde, Donald G.; Meindl, Howard R.; and Varani, Frederick T.,3,463,098.
Meindl, Hubert: *See—*
Ackermann, Hans; Frei, Hermann; and Meindl, Hubert,3,433,781.
Meinema, Herbert E.: *See—*
Haviland, Lyman J.; and Meinema, Herbert E.,3,469,135.
Meiners, Jochen: *See—*
Schneider, Rudolf; and Meiners, Jochen,3,474,056.
Meinert, Norbert: *See—*
Bromer, Heinz; and Meinert, Norbert,3,451,829.
Bromer, Heinz; and Meinert, Norbert,3,477,863.
Bromer, Heinz; and Meinert, Norbert,3,486,915.
Bromer, Heinz; Meinert, Norbert; and Ahl, Demetrius,3,446,638.
Meinhard, James E. Electronic olfactory detector having, organic semiconductor barrier layer structure. 3,428,892, 2-18-69, Cl. 324-71.
Meinhardt, Gunter: *See—*
Grabhofer, Herbert; and Meinhardt, Gunter,3,443,946.
Meinhardt, Howard, Company, The: *See—*
Hutchinson, George, 3,469,509.
Meinhardt, Johannes; and Schubert, Paul, to Cronin, Frederick W. Method of preparing surfaced panels. 3,476,628, 11-4-69, Cl. 156-246.
Meinig, Karl-Heinz. Radiation detecting device. 3,422,268, 1-14-69, Cl. 250-106.
Meininger, Fritz: *See—*
Hoyer, Ernst; Meininger, Fritz; and Noll, Walter,3,461,111.
Kuhne, Rudolf; Meininger, Fritz; and Frolich, Heinrich,3,440,240.
Langbein, Gerhard; and Meininger, Fritz,3,420,812.
Langbein, Gerhard; and Meininger, Fritz,3,450,689.
Meininger, Fritz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Metal complexes of disazo dyestuffs. 3,457,251, 7-22-69, Cl. 260-148.
Meininger, Fritz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Metal complexes of disazo-dyestuffs. 3,457,252, 7-22-69, Cl. 260-148.
Meininger, Fritz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pyrazolone containing disazo dyestuffs and their metal complexes. 3,462,409, 8-19-69, Cl. 260-147.
Meininger, Fritz; and Bauer, August, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble monoazo-pyrazolone dyestuffs. 3,471,469, 10-7-69, Cl. 260-163.
Meininger, Fritz; and Hille, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble mono and disazo dyestuffs containing N-(thiosulfatoalkanoylamino) groups. 3,435,023, 3-25-69, Cl. 260-163.
Meininger, Fritz; and Hoyer, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble monoazo dyestuffs and their metal complex compounds. 3,426,008, 2-4-69, Cl. 260-151.
Meininger, Fritz; and Schlafer, Ludwig, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble thiazolyl monoazo-dyestuffs. 3,468,873, 9-23-69, Cl. 260-158.
Meininger, Fritz; Signon, Anni; and Berner, Klaus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Metal-containing disazo-dyestuffs. 3,445,450, 5-20-69, Cl. 260-148.
Meininger, Fritz; and Springer, Hartmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azophthalocyanine dyestuffs. 3,445,449, 5-20-69, Cl. 260-147.
Meininger, James R., to Tillotson Manufacturing Company, The. Fuel feed system and charge forming apparatus. 3,472,211, 10-14-69, Cl. 123-73.
Meinke, Wilbur E., to New Britain Machine Company, The. Machine tool. 3,455,207, 7-15-69, Cl. 90-14.
Meinke, Wilbur E., to New Britain Machine Company, The. Machine tool having guide assembly with adjustable rollers. 3,455,610, 7-15-69, Cl. 308-6.
Meinunger, Hellmut, to Kurbi and Niggeloh. Support particularly for photographic purposes. 3,453,011, 7-1-69, Cl. 287-58.
Meir, Franz, to Knorr-Bremse GmbH. Electropneumatic braking control system. 3,480,838, 11-25-69, Cl. 317-137.
Meis, Josef: *See—*
Tummes, Hans; and Meis, Josef,3,426,080.
Tummes, Hans; and Meis, Josef,3,462,500.
Meis, Thomas F. Headblock and Knee assemblies for sawmill carriages. 3,464,467, 9-2-69, Cl. 143-120.
Meisel, Christian; Salewski, Gunter; and Bock, Rudolf, to VEB Kabelwerk Oberspree (KWO). Cable distribution box. 3,445,585, 5-20-69, Cl. 174-59.
Meisel, Fred W., Jr., to Scott Paper Company. Absorbent pad. 3,431,911, 3-11-69, Cl. 128-287.
Meisel, Fred W., Jr.: *See—*
McConnell, Albert L.; Meisel, Fred W., Jr.; and Adams, Whitney R.,3,425,882.
Meisel, Herbert R.: *See—*
Grimes, Milton J.; and Meisel, Herbert R.,3,465,212.
Grimes, Milton J.; Henrikson, Donald F.; and Meisel, Herbert R.,3,478,420.
Meisel, William H., to Abex Corporation. Null adjuster for magnetically operated torque motors. 3,435,393, 3-25-69, Cl. 335-237.
Meisels, Alex; Denss, Rolf; and Ryf, Hugo, to Geigy Chemical Corporation, mesne. 1-Tetrahydronaphthyl- and 1-indanyl-4-sub-

stituted phenyl-4-carboxyalkyl piperidines. 3,479,361, 11-18-69, Cl. 260y293.4
Meisels, Alex; Denss, Rolf; and Ryf, Hugo, to Geigy Chemical Corporation, mesne. 1-Naphthenyl- and 1-indenyl-4-substituted phenyl-4- carboxyalkyl piperidines. 3,479,363, 11-18-69, Cl. 260-294.3
Meisels, Alex; and Storni, Angelo, to Geigy Chemical Corporation. 10-(Aminoalkanoyl)-acridanes. 3,452,021, 6-24-69, Cl. 260-276.
Meisner, Herbert I. Fishing reel with drag means. 3,432,114, 3-11-69, Cl. 242-84.45
Meisner, Paul, to Top Seal Incorporated. Cup filling machine and elements. 3,478,489, 11-18-69, Cl. 53-167.
Meissner, Herman Paul; and Baddour, Raymond Frederich, to Abcor, Inc. Hydrazine purification. 3,458,283, 7-29-69, Cl. 23-190.
Meissner, Johannes; Bockau, Gustav; and Reike, Siegfried, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Mining machine with selectively retainable loading apron. 3,437,382, 4-8-69, Cl. 299-56.
Meissner, Josef G.m.b.H. & Co., KG: *See—*
Toischer, Karl Engelbert Ludwig; and Bergmann, Horst Sigurd Max, 3,431,312.
Toischer, Karl Engelbert Ludwig; and Bergmann, Horst Sigurd Max, 3,434,802.
Meissner, Josef, Kommanditgesellschaft: *See—*
Langecker, Gerhard, 3,426,040.
Meissner, William E.: *See—*
Dietz, Thomas J.; and Meissner, William E.,3,460,198.
Meister, Gerhard; and Kreissl, Franz, to Linde Aktiengesellschaft. Plate-type heat exchanger. 3,476,179, 11-4-69, Cl. 165-166.
Meister, Hans, to Langston, Samuel M., Company. Double deck single facer machine. 3,455,767, 7-15-69, Cl. 156-470.
Meister Lucius & Bruning: *See—*
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Felix, 3,426,067.
Meister, Robert P.; and Nelson, Jerome W., to Battelle Development Corporation, The, mesne. Apparatus for guiding electrodes. 3,462,579, 8-19-69, Cl. 219-125.
Meister, Ulrich: *See—*
Weber, Kurt; Rickenbacher, Hansruedi; and Meister, Ulrich,3,473,882.
Meister, Werner, 1/2 to Maurer, Ing. A., S.A., and 1/2 to Buss, A. G. Process for the continuous xanthating of alkali cellulose. 3,438,969, 4-15-69, Cl. 260-216.
Meitinger, Heinz; and Egger, Josef, to United States Time Corporation, The. Dial train drive. 3,462,942, 8-26-69, Cl. 58-28.
Meitinger, Sylvester Martin, to Stauffer Chemical Company. Manufacture of reinforced plastic sleeving and the like. 3,436,447, 4-1-69, Cl. 264-135.
Meitinger, Sylvester Martin, to Stauffer Chemical Company. Apparatus for making ornamented tape product. 3,439,383, 4-22-69, Cl. 18-13.
Meitl, Harold G.: *See—*
Steingas, Richard R.; and Meitl, Harold G.,3,452,526.
Meiwa Chemical Engineering Co., Ltd.: *See—*
Kishitaka, Hisashi; Shimamura, Yoshihisa; and Takata, Shinya, 3,451,769.
Meixner, Arthur E.; and Reynolds, Frederick W., to Singer-General Precision, Inc. Method of making a moisture sensitive capacitor. 3,453,143, 7-1-69, Cl. 117-217.
Meixner, Arthur E.: *See—*
Reynolds, Frederick W.; and Meixner, Arthur E.,3,447,234.
Meixner, Edwin J.: *See—*
Anderson, Carl J.; and Meixner, Edwin J.,3,437,763.
Meixner, Otto. Machine for preparing worn pneumatic tires to be circumferentially renewed. 3,473,596, 10-21-69, Cl. 157-13.
Meixner, Otto. Machine with rotating tools for preparing worn-off pneumatic tires to be renewed circumferentially. 3,478,804, 11-18-69, Cl. 157-13.
Meixner, Willi: *See—*
Ehrhart, Gustav; Leditschke, Heinrich; Meixner, Willi; and Ruschig, Heinrich,3,474,140.
Leditschke, Heinrich; Ehrhart, Gustav; Ruschig, Heinrich; and Meixner, Willi,3,462,456.
Ruschig, Heinrich; Meixner, Willi; and Alpermann, Hans Georg,3,445,473.
Mejyr, Carl-Anker, to Primus-Sievert Aktiebolag. Radiation heater. 3,425,406, 2-4-69, Cl. 126-92.
Mekjean, Matthew, to Hooker Chemical Corporation. Apparatus for storing heat. 3,439,151, 4-15-69, Cl. 219-530.
Mekjean, Matthew, to Hooker Chemical Corporation. Heat storage apparatus. 3,453,416, 7-1-69, Cl. 219-530.
Mekjean, Matthew, to Hooker Chemical Corporation. Method for producing a heat storage composition and use thereof. 3,470,865, 10-7-69, Cl. 126-400.
Mekler, Arlen B.: *See—*
Borchert, Alfred E.; Mekler, Arlen B.; and Sauer, Richard W.,3,485,770.
Mekler, Valentine; Sze, Morgan C.; Bloomer, Ward J.; and Bauer, William V., to Lummus Company, The. Process for forming hard oxide pellets and product thereof. 3,420,656, 1-7-69, Cl. 75-0.5
Melabs,: *See—*
Dunn, Vernon E.; and Domenico, Anthony J., 3,467,918.
Melacini, Paolo: *See—*
LoMonaco, Sergio; Melacini, Paolo; Borsini, Giancarlo; Magagnin, Luigi Ciligot; and Visani, Francesco,3,476,727.
Melacini, Paolo; and Trevisi, Silvio, to ACSA Applicazioni Chimiche S.p.A. Method for recovering the components of a coagulation bath used in the spinning of polyvinyl chloride. 3,440,148, 4-22-69, Cl. 203-33.
Melancon, Leo, to Raytheon Company. Electronically scanned tacan antenna. 3,474,447, 10-21-69, Cl. 343-100.
Melandsor, Osvald: *See—*
Persson, Erik; Claesson, Nils-Erik; Trulsson, Ingvar; and Melandsor, Osvald,3,470,383.
Melanson, Alcide: *See—*
Fraleigh, William P.; and Melanson, Alcide,3,468,064.
Melas, Constantin Michael, to International Business Machines Corporation. Reception of pulses transmitted at N times the Nyquist rate. 3,478,267, 11-11-69, Cl. 325-42.
Melbar, John J.; and Plas, James A. Vehicle steering apparatus. 3,485,506, 12-23-69, Cl. 280-87.
Melby, Lester R., to Du Pont de Nemours, E. I., and Company. Oligonucleotide compositions and the process for the preparation thereof. 3,440,190, 4-22-69, Cl. 260-17.4
Melcher, James R., to Massachusetts Institute of Technology. Electrohydrodynamic apparatus and method. 3,463,944, 8-26-69, Cl. 310-10.
Melchior, Gerard, to Compagnie Francaise de Television. Sequential-simultaneous colour television system using a frequency modulated subcarrier. 3,471,635, 10-7-69, Cl. 178-5.2
Melchior, Gerard, to Compagnie Francaise de Television. Means for raising the signal-to-noise ratio of a frequency modulated subcarrier in a composite color TV signal. 3,485,942, 12-23-69, Cl. 178-5.2
Melchior, Siegfried: *See—*
Friedrich, Richard; and Melchior, Siegfried,3,486,661.
Melchor, Eugene B.: *See—*
Johnson, Rollie C.; and Melchor, Eugene B.,3,474,774.
Melchore, James Anthony, to American Cyanamid Company. Method of dyeing polypropylene. 3,454,350, 7-8-69, Cl. 8-42.
Melconian, Jerry Chanes, to Rolls-Royce Limited. Gas turbine engine combustion chamber. 3,439,498, 4-22-69, Cl. 60-39.37
Meldau, Robert F.: *See—*
Cox, Jack C.; and Meldau, Robert F.,3,437,135.
Meldau, Robert F., to Phillips Petroleum Company. Wellbore visbreaking of heavy crude oils. 3,442,333, 5-6-69, Cl. 166-11.
Lumpkin, William B.; and Meldau, Robert F.,3,454,365.
Parker, Harry W.; and Meldau, Robert F.,3,457,993.
Meldrum, Donald N.; and Williams, John R., to National Foam System, Inc. Fire extinguishing. 3,475,333, 10-28-69, Cl. 252-3.
Meldrum, Raymond Walter, to International Computers and Tabulators Limited. Motion arresting devices. 3,457,801, 7-29-69, Cl. 74-527.
Melech, Charles J., to Eastman Kodak Company. Wide angle triplet objective. 3,438,697, 4-15-69, Cl. 350-226.
Melech, Charles J., to Eastman Kodak Company. Optical projection system. 3,482,901, 12-9-69, Cl. 350-203.
Melfi, Leonard T., Jr.: *See—*
Clay, Forrest P., Jr.; and Melfi, Leonard T., Jr.,3,466,484.
Melgaard, Hans L., to Despatch Oven Company. Magnetic door latch. 3,431,002, 3-4-69, Cl. 292-251.5
Melill, Joseph: *See—*
Klimmek, Norman; Melill, Joseph; King, Julian P., Jr.; Lorenz, Roy H.; and Hollingsworth, Frank H.,3,462,628.
Melin, Deering D.; and Wilson, Peter C., to Krebs Engineers. Metallurgical process and apparatus. 3,443,932, 5-13-69, Cl. 75-101.
Melin, Edward Milton, to Irving Air Chute Company, Inc. Pushbutton type safety seat belt buckle. 3,425,103, 2-4-69, Cl. 24-230.
Melin, Ginette nee Poncet: *See—*
Bugnon, Maurice; and Melin, Ginette nee Poncet,3,431,913.
Melin, Thomas N. Load handling in fork-lift trucks. 3,429,470, 2-25-69, Cl. 214-750.
Melisz, John M.: *See—*
Berkhoudt, John G.; and Melisz, John M.,3,453,940.
Melkeraaen, Torleiv O.; and Capek, Raymond G., to Zenith Radio Corporation. Leadless inverted device forming process. 3,458,930, 8-5-69, Cl. 29-625.
Melkonjan, Gagik; Mikaeljan, Spartak; Elias, Jiri; Tyl, Miloslav; and Musil, Petr. Thread breaks detector having transparent thread guide. 3,452,209, 6-24-69, Cl. 250-219.
Mellan, Carlton M. Combination valve for a shower and cleaning brush. 3,441,054, 4-29-69, Cl. 137-610.
Mellan, Herbert J.; and Kay, Daniel J., to Hooker Chemical Corporation. Alkali soluble polish resins. 3,450,657, 6-17-69, Cl. 260-26.
Mellcor Corporation: *See—*
Marshall, Fay E., 3,437,472.
Melle, Hans-Georg Wilhelm: *See—*
Stark, Sven Olof Soren; Melle, Hans-Georg Wilhelm; and Lindh, Thorsten Lennartson,3,462,334.

Melle-Bezons (Societe Anonyme): *See—*
Bouniot, Albert, 3,431,181.
Mellen, David L.: *See—*
Boskovich, Boris; Lindahl, John H.; Mehelich, Edward W.; and Mellen, David L.,3,440,504.
Mellen, Edward J., Jr.: *See—*
Webb, John M.; and Herrmann, Eldor R., 3,465,420.
Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M. Method of making a permeable shell mold. 3,452,804, 7-1-69, Cl. 164-26.
Mellentin, Robert W.: *See—*
Burgess, Hovey M.; and Mellentin, Robert W.,3,482,985.
Meller, Edward E., to SCM Corporation. Mdium temperature temporary protective coating compositions for metals and resulting coated metal articles. 3,484,306, 12-16-69, Cl. 148-27.
Mellon, Charles M. Centripetal force piezoelectric generator (electro-mechanical oscillator). 3,463,942, 8-26-69, Cl. 310-8.0
Mellor, Clarence Howard; and Foley, James J., to Space Sciences, Incorporated, mesne. Coaxial thermocouple with tube sealed by enlarged mass of rod. 3,466,200, 9-9-69, Cl. 136-228.
Mellors, Geoffrey W.; and Senderoff, Seymour, to Union Carbide Corporation. Electrodeposition of refractory metals. 3,444,058, 5-13-69, Cl. 204-71.
Mellott, Robert N.: *See—*
King, Claude F.; Martin, Norman M.; Mellott, Robert N.; and Wolfe, Ramon E.,3,487,369.
Mellott, Robert N., to Logicon, Inc. Binary circuit. 3,424,923, 1-28-69, Cl. 307-247.
Mellowes, Charles N. Method of forming lock washers by rolling multiple sections from a single rod. 3,461,471, 8-19-69, Cl. 10-86.
Melngailis, Ivars; and Calawa, Arthur R., to Massachusetts Institute of Technology. Solution growth of epitaxial layers of semiconductor material. 3,463,680, 8-26-69, Cl. 148-172.
Melnick, Daniel: *See—*
Josefowicz, Edmund L.; Cooper, Irwin; and Melnick, Daniel,3,457,086.
Melnick, Daniel; and Josefowicz, Edmund L., to Corn Products Company. Process for preparing liquid margarine. 3,472,661, 10-14-69, Cl. 99-123.
Wells, Phillip R.; and Melnick, Daniel,3,477,858.
Melnick, Robert A.: *See—*
Gerlach, Richard K.; Melnick, Robert A.; and Kimura, Noboru,3,423,744.
Melnikov, Nikolai Nikitovich: *See—*
Vyaznikov, Alexandr Konstantinovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; and Khokhlov, Evgeny Ilich,3,446,258.
Vyaznikov, Alexandr Konstantinovich; Davydov, Alexei Ivanovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; Kohkhlov, Evgeny Ilich; and Charykov, Nikolai Frolovich,3,472,299.
Melnikov, Oleg Nikolaevich: *See—*
Gutnikov, Eduard Julievich; Melnikov, Oleg Nikolaevich; Matjunin, German Borisovich; and Alterman, Iosif Ilich,3,440,932.
Melnychyn, Paul. Process for isolating proteins from beans in a crystalline state using an alkali salt of a carboxylic acid. 3,450,688, 6-17-69, Cl. 260-123.5
Melocchi, Mario. Cap comprising a swinging cover which serves as a pushbutton for use with a container for an aerosol product. 3,469,746, 9-30-69, Cl. 222-400.12
Melocchi, Mario. Bottle for holding and cooperating applicator for applying fluid cosmetics and the like. 3,471,244, 10-7-69, Cl. 401-122.
Melone, Robert Richard, to Illinois Tool Works Inc. Closure device. 3,454,186, 7-8-69, Cl. 220-60.
Melone, Robert Richard, to Illinois Tool Works Inc. Unitary plastic retainer ring for relatively rotatable magnetic rings. 3,456,218, 7-15-69, Cl. 335-212.
Meloni, Mario, to Autelca AG. Coin checking device. 3,481,443, 12-2-69, Cl. 194-100.
Meloni, Mario, to Autelca AG. Coin controlled ticket printer circuit. 3,483,956, 12-16-69, Cl. 194-10.
Melpar, Inc.: *See—*
Alderman, Orba O., 3,464,032.
Connelly, Edward M.; and Worthen, James H., 3,441,911.
Connelly, Edward M., 3,463,908.
Coulter, David C., 3,423,530.
Divecha, Amarnath P.; Hahn, Henry; and Lare, Paul J., 3,441,392.
Feldman, Charles, 3,470,426.
Fuschillo, Nicholas; and Schultz, Cramer W., 3,422,636.
Hacskaylo, Michael, 3,441,429.
Halpern, Peter H., 3,470,468.
James, Wilbur Gerald; and Mould, John C., 3,448,446.
Jones, John Haskell, 3,433,719.
Jones, Roger C., 3,423,694.
Jones, Roger C., 3,441,734.
Mitchell, Maurice M., Jr., 3,460,925.
Murray, Jack T.; and Childers, Homer D., 3,433,903.
Noe, William B., 3,458,237.
Noe, William B., 3,463,019.
Oropeza, Frank C.; and Murray, Jack T., 3,454,883.
Smith, Richard C.; and Hacskaylo, Michael, 3,470,018.
Vieth, George C., Jr., 3,441,727.
West, Seymour S.; and Liskowitz, John W., 3,481,671.
Melpolder, John. Wooden collar maker. 3,428,100, 2-18-69, Cl. 143-85.
Melroe Manufacturing Company: *See—*
Laurel, Ralph V., 3,444,583.
O'Neil, Orval A., 3,439,818.
Melse, Jan Leendert, to U.S. Philips Corporation, mesne. Method of manufacturing metal articles by electroforming. 3,472,741, 10-14-69, Cl. 204-9.
Melsheimer, Richard F.: *See—*
Melsheimer, Ted R.; and Melsheimer, Richard F.,3,470,968.
Melsheimer, Ted R.; and Melsheimer, Richard F. Horizontal boring machine. 3,470,968, 10-7-69, Cl. 173-24.
Melso, Vincent R.: *See—*
Massanova, Joseph M.; and Melso, Vincent R.,3,465,108.
Melton, Carl W.: *See—*
Droege, John W.; and Melton, Carl W.,3,440,046.
Melton, Thomas Mason; and Kaufman, Harold A., to Mobil Oil Corporation. Controlling insects and other pests with phosphonothioates. 3,428,655, 2-18-69, Cl. 260-330.5
Melton, Thomas M., to Mobil Oil Corporation. Process for producing methylphosphonodichloridothioate. 3,458,569, 7-29-69, Cl. 260-543.
Melton, Thomas M., to Mobil Oil Corporation. Process for making phosphorothioates. 3,470,272, 9-30-69, Cl. 260-978.
Melton, Thomas M., to Mobil Oil Corporation. Manufacture of phosphonothioates. 3,479,418, 11-18-69, Cl. 260-973.
Melton, Thomas M.; and Brown, David A., to Mobil Oil Corporation. Phosphorus derivatives of benzylidene aniline. 3,476,836, 11-4-69, Cl. 260-944.
Meltsner, Bernard R., to Ethyl Corporation. Organic oxidizable material containing phenol phosphothionate as an antioxidant. 3,451,932, 6-24-69, Cl. 252-46.6
Meltsner, Bernard R., to Ethyl Corporation. Phenyl alkyl ether antioxidants. 3,476,814, 11-4-69, Cl. 260-613.
Meltsner, Bernard R., to Ethyl Corporation. Tris(3,5-Dihydrocarbyl-4-hydroxyphenyl) phosphothionates. 3,480,700, 11-25-69, Cl. 260-953.
Meltzer, Robert I.: *See—*
Brown, Richard E.; and Meltzer, Robert I.,3,437,689.
Brown, Richard E.; and Meltzer, Robert I.,3,445,502.
Brown, Richard E.; and Meltzer, Robert I.,3,487,107.
Hansen, Holger V.; and Meltzer, Robert I.,3,452,025.
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert I.,3,479,358.
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert Israel,3,466,288.
Meltzer, Robert J., to Bausch & Lomb, Incorporated. Magneto-optical displacement sensing device. 3,438,712, 4-15-69, Cl. 356-117.
Meltzer, Robert J., to Bausch & Lomb, Incorporated. Optical system. 3,450,477, 6-17-69, Cl. 356-114.
Melull, Fredrick H.; and Schmidt, Waldemar M. Device for operating elongated cords. 3,438,423, 4-15-69, Cl. 160-331.
Melville, John Ward: *See—*
Britt, James Edward; Warren, Larry Hartwell; and Melville, John Ward,3,467,371.
Melville, Richard J.: *See—*
Kluth, Lewis A.; Melville, Richard J.; and Thompson, Robert D.,3,465,590.
Melville, Richard W.: *See—*
Pomerene, James H.; and Melville, Richard W.,3,436,734.
Melville Sahyun: *See—*
Faust, John A.; and Sahyun, Melville, 3,459,803.
Melville, Victor J.: *See—*
Gardiner, Roy W.; Melville, Victor J.; and Yager, Norman J.,3,461,725.
Melville, William R., Jr.: *See—*
Fierle, Edward J.; and Melville, William R., Jr.,3,445,092.
Melvin, Edmund W. Target with electrical indicator and conductive adherent projectile. 3,455,553, 7-15-69, Cl. 273-102.2
Melvin, William J.: *See—*
Hutchinson, William M.; and Melvin, William J.,3,432,816.
Melzer, Jean. Process and apparatus for making a continuous laminated structure having a corrugated layer. 3,461,541, 8-19-69, Cl. 29-455.
Memger, Wesley, Jr.: *See—*
Frazer, August Henry; and Memger, Wesley, Jr.,3,476,719.
Memorex Corporation: *See—*
Higashi, Louis M., 3,474,073.
Memorial Photo Service, Inc.: *See—*
Bergener, Robert H.; and Stewart, Newell J., 3,438,159.
Menand, Henri Francois: *See—*
Lafont, Pierre Yves Andre; and Menand, Henri Francois,3,461,154.
Menapace, Henry R.; and Maly, Neil A., to Goodyear Tire & Rubber Company, The. Cyclodimerization process. 3,446,862, 5-27-69, Cl. 260-666.

Menapace, Henry R.; Maly, Neil A.; Benner, Gereld S.; and Hillegass, Donald V., to Goodyear Tire & Rubber Company, The. Cyclodimerization process. 3,446,861, 5-27-69, Cl. 260-666.
Menapace, Lawrence W.: *See*—
Patterson, John A.; Menapace, Lawrence W.; and Doyle, William P.,3,470,250.
Menapace, Lawrence W., to Texaco Inc. Production of primary amines. 3,485,875, 12-23-69, Cl. 260-583.
Menard, Claude J., to Gould-National Batteries, Inc. Method of impregnating porous nickel electrodes with active material. 3,442,710, 5-6-69, Cl. 136-29.
Menard, Marcel: *See*—
Belleau, Bernard; and Menard, Marcel,3,455,929.
Menasco Manufacturing Company: *See*—
Keech, Roger A., 3,458,016.
Menasse, Raphael: *See*—
Burdeska, Kurt E.; von der Crone, Jost; Menasse, Raphael; and Pugin, Andre,3,424,767.
Paltauf, Friedrich; Menasse, Raphael; and Gatzi, Karl,3,483,245.
Mencacci, Samuel A., to International Machinery, Corporation S.A. Packaging machine and method. 3,443,352, 5-13-69, Cl. 53-22.
Mencacci, Samuel A., to International Machinery Corporation S.A. Pressure cooker. 3,478,677, 11-18-69, Cl. 99-360.
Mencacci, Samuel A.; and Hagerborg, John G., to International Machinery Corporation S.A. Carrier attachment apparatus. 3,462,003, 8-19-69, Cl. 198-151.
Mencacci, Samuel A.; and Hagerborg, John G., to International Machinery Corporation S.A. Hydrostatic cooker conveyor system. 3,469,671, 9-30-69, Cl. 198-25.
Mench & Miksits Research & Mfg. Company, Inc.: *See*—
Miksitz, Frank J., 3,441,133.
Mench, John W.: *See*—
Hiatt, Gordon D.; and Mench, John W.,3,480,615.
Mencher, Alexander: *See*—
Rosen, Hyman, 3,485,244.
Mencher, Simon: *See*—
Newman, Julian; and Mencher, Simon,3,475,510.
Mendelow, Robert A.: *See*—
Schmerler, Joseph; and Mendelow, Robert A.,3,474,910.
Mendelsohn, Lewis I.; and Curran, Robert E., to General Electric Company. Molded magnetic powdered metal. 3,432,279, 3-11-69, Cl. 29-192.
Mendelsohn, Morris A., to Westinghouse Electric Corporation. Large celled polyurethane foam. 3,476,933, 11-4-69, Cl. 250-2.5
Mendelsohn, Morris A.: *See*—
Seidel, Joseph; and Mendelsohn, Morris A.,3,483,052.
Mendelson, Emanuel S.; and Wilson, Raymond, to United States of America, Navy. Adjustable stethoscope earmuff shell. 3,469,651, 9-30-69, Cl. 181-24.
Mendelson, Lavine. Trolley container. 3,439,628, 4-22-69, Cl. 105-50.
Mendelson, Morris. Desalinization apparatus. 3,442,389, 5-6-69, Cl. 210-321.
Mendez, Eleucadio M. Hair preparation which contains chicle in homogeneous solution. 3,453,361, 7-1-69, Cl. 424-71.
Mendez, Jose Blanco; and Mendez, Julia Blanco. Variable speed mechanism. 3,422,690, 1-21-69, Cl. 74-117.
Mendez, Julia Blanco: *See*—
Mendez, Jose Blanco; and Mendez, Julia Blanco,3,422,690.
Menefee, Julious M.; and Erker, Joseph W., to Kewanee Oil Company. Scintillation component for use in radiation detection devices which are subject to wide temperature variations. 3,426,195, 2-4-69, Cl. 250-71.5
Menell, Hans, to Continental Gummi-Werke Aktiengesellschaft. Tire building machine. 3,424,634, 1-28-69, Cl. 156-133.
Menell, Hans; and Johannes, Gunter, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire. 3,467,161, 9-16-69, Cl. 152-354.
Menell, Hans; and Scheithauer, Walter, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,481,386, 12-2-69, Cl. 152-354.
Menelly, Richard A.; and Kimball, Lawrence W., to Sylvania Electric Products, Inc. Apertured fluorescent lamp with lens along the aperture. 3,457,447, 7-22-69, Cl. 313-110.
Menendez, Joseph Lee; and Scott, Benton Boyd, to Sylvania Electric Products Inc. Frequency control circuit for television horizontal oscillator. 3,439,116, 4-15-69, Cl. 178-7.3
Meng, Eberhard; and Meyer, Howard Eugene, to Electro-Therm, Inc. Electrical heating unit assembly. 3,443,064, 5-6-69, Cl. 219-451.
Meng, John D., to General Electric Company. Cryotron logic circuit. 3,430,064, 2-25-69, Cl. 307-212.
Meng, John D.: *See*—
Razaitis, Leo C.; Meng, John D.; and Nowell, John R.,3,437,833.
Meng, Ng Chue, to Stelux Manufacturing Co., Ltd. Wrist band with adjustable linkage. 3,425,214, 2-4-69, Cl. 59-80.
Menge, Donald, to Troy Steel Corporation. Apparatus for fabricating wood structures. 3,421,751, 1-14-69, Cl. 269-305.
Menge, Gunter, to Hauni-Werke, Korber & Co. KG. Apparatus for inverting filter cigarettes or the like. 3,472,355, 10-14-69, Cl. 198-33.
Mengelberg, Volker, to International Standard Electric Corporation. Electromagnetic reed relay having metal foils underneath and above the excitation winding. 3,434,080, 3-18-69, Cl. 335-154..
Mengers, Paul E., to Sylvania Electric Products, Inc. Optical intrusion detection system using reflected dual beam peripheral scanning. 3,476,948, 11-4-69, Cl. 250-224.
Mengon, Albert C.: *See*—
Guziak, Leonard F.; Mengon, Albert C.; and Guy, Hubert G.,3,487,032.
Menhennett, Gerald H., to International Telephone and Telegraph Corporation. Quick tune helical antenna. 3,438,046, 4-8-69, Cl. 343-895.
Menichelli, Robert Paul; and Morgenthaler, Lawrence Philip, to Western Electric Company, Incorporated. Method and apparatus for titrations. 3,438,871, 4-15-69, Cl. 204-1.
Menichelli, Vencent J.: *See*—
Vitale, Donald J.; Eagleson, Edwin W.; Harris, Thomas B.; and Menichelli, Vencent J.,3,461,801.
Menichelli, Vincent J.; and Piacesi, Dante, to United States of America, Navy. Explosive time delay. 3,447,464, 6-3-69, Cl. 102-70.
Menikheim, Virginia C.: *See*—
Friedlander, Herbert N.; and Menikheim, Virginia C.,3,479,129.
Menini, Aurelio, to Fiat Societa per Azioni. Edgewise helically wound strip motor winding with composite high temperature insulation. 3,457,443, 7-22-69, Cl. 310-179.
Menissier, Pierre Lucien, to Commissariat a l'Energie Atomique. Milling machine. 3,457,830, 7-29-69, Cl. 90-15.
Menk, Maynard H. Electric razor oiling jig. 3,422,927, 1-21-69, Cl. 184-102.
Menke, Helmut; and Roh, Peter, to Dynamit Nobel Aktiengesellschaft. Metal azide electrically conductive priming composition and manufacture thereof. 3,476,623, 11-4-69, Cl. 149-35.
Menke, John L. Recorder controlled automatic dialing and message reporting system. 3,461,241, 8-12-69, Cl. 179-5.
Menkin, Banjamin David: *See*—
Herzig, Albert M.; and Menkin, Banjamin David,3,486,666.
Menkin, Benjamin David: *See*—
Herzig, Albert M.; and Menkin, Benjamin David,3,426,629.
Herzig, Albert M.; and Menkin, Benjamin David,3,451,120.
Herzig, Albert M.; and Menkin, Benjamin David,3,469,478.
Menkus, Milton. Heat exchanger. 3,470,950, 10-7-69, Cl. 165-165.
Menne, Eugene C., to General Cable Corporation. Method and apparatus for preparing cross-linked polyethylene cables for terminations and splices. 3,474,517, 10-28-69, Cl. 29-427.
Menne, Heinz: *See*—
Benteler, Helmut; and Menne, Heinz,3,470,605.
Menneking, Hartmut, to Rheinmetall G.m.b.H. Machine gun with raisable cartridge feeder cover. 3,425,317, 2-4-69, Cl. 89-33.
Mennen-Greatbatch Electronics, Inc.: *See*—
McLeod, Francis D., Jr., 3,430,625.
Mennessier, Andre H. F.: *See*—
Becker, Jean P. M.; and Mennessier, Andre H. F.,3,438,312.
Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel feed systems for internal combustion engines. 3,437,081, 4-8-69, Cl. 123-119.
Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Carburettors for internal combustion engines. 3,455,260, 7-15-69, Cl. 123-97.
Mennies, Bernard: *See*—
Burstein, Norman, 3,448,678.
Mennitt, Joseph L., to Owens-Illinois, Inc. Differential timer. 3,424,030, 1-28-69, Cl. 74-675.
Menold, Herman E. Snuffer insert for vehicle ash tray. 3,486,509, 12-30-69, Cl. 131-235.
Menold, Richard, to Agfa-Gevaert Aktiengesellschaft. Process for the production of electrophotographic images. 3,443,936, 5-13-69, Cl. 96-1.
Menon, Premachandran R.: *See*—
Friedman, Arthur D.; and Menon, Premachandran R.,3,484,701.
Menoret, Maurice J.: *See*—
Puychevrier, Nicole M.; and Menoret, Maurice J.,3,481,032.
Menown, Hugh; and Jones, Eric, to English Electric Valve Company Limited. Gas filled thyratrons having improved electrode cooling provisions. 3,440,467, 4-22-69, Cl. 313-42.
Menschner, Johannes, Textilmaschinenfabrik: *See*—
Minten, Hans, 3,432,981.
Minten, Hans, 3,432,988.
Mensing, Walter: *See*—
Hinrichs, Horst; and Mensing, Walter,3,443,839.
Mensor, Merrill C., Jr. Dental construction. 3,448,521, 6-10-69, Cl. 32-5.
Mente, Louis C.: *See*—
Kies, Robert M.; and Mente, Louis C.,3,465,144.
Mentis, Andrew. Method of making a metal grating. 3,455,005, 7-15-69, Cl. 29-160.

Mentor Inc.: *See—*
Merkel, Henry Mynderse, Jr., 3,462,766.
Mentrup, Anton: *See—*
Thoma, Otto; Koppe, Herbert; Mentrup, Anton; Zeile, Karl; and Ludwig, Gerhard,3,475,455.
Menze, Diedrich. Heat exchangers. 3,468,371, 9-23-69, Cl. 165-156.
Menzel, Harry R.: *See—*
Dale, John R.; Menzel, Harry R.; McCandless, Joseph M.; and Goss, Garnet,3,449,950.
Menzel, Horst F.: *See—*
Bell, Francis R.; and Menzel, Horst F.,3,456,621.
Menzel, Karl-Heinz; and Bockly, Erich, to Agfa Aktiengesellschaft. Silver halide photographic material containing 3- acylaminopyrazolone couplers. 3,443,954, 5-13-69, Cl. 96-100.
Menzel, Uwe, to Honeywell G.m.b.H. Control apparatus. 3,484,951, 12-23-69, Cl. 35-11.
Menzel, Waldemar, to Lumen GmbH Nahrmittel- und Maschinenfabrik, Firma. Apparatus for preparing foods or delicacies with added air, particularly soft ice freezer. 3,456,577, 7-22-69, Cl. 99-249.
Menzer, Alfred B.: *See—*
Morse, Donald B.; and Menzer, Alfred B.,3,480,497.
Menzi, Ernst: *See—*
Menzi, Ernst, 3,433,374.
Menzi, Ernst, to Menzi, Ernst. Power shovel. 3,433,374, 3-18-69, Cl. 214-138.
Menzimer, L. W.: *See—*
Slattery, Robert E., 3,421,785.
Menzin, Marvin. Broiler pan. 3,427,955, 2-18-69, Cl. 99-425.
Menzl, Hans. Ski binding having forward release which is floating or secured to the ski and effective during a forward fall. 3,442,524, 5-6-69, Cl. 280-11.37
Meoni, Angelo, to Societe Gerafin S.A. Method of manufacturing fixed value resistors. 3,478,424, 11-18-69, Cl. 29-619.
Meopta, narodni podnik: *See—*
Bures, Miroslav; and Bouchal, Frantisek, 3,451,753.
Kovarik, Alois; and Suchanek, Jindrich, 3,459,476.
Kovarik, Alois; and Suchanek, Jindrich, 3,468,603.
Mepag A.G.: *See—*
Jucker, Hans Conrad, 3,438,736.
Mepham, Herbert J., to Tektronix, Inc. Bistable storage tube having photosensitive phos - phor storage dielectric, apparatus and method of storing light image by such tube. 3,426,236, 2-4-69, Cl. 315-12.
Mepham, Timothy J.: *See—*
Myers, Gordon S.; and Mepham, Timothy J.,3,468,896.
Meranda, James I., to United States of America, Navy, mesne. Digitalized receiver system. 3,483,474, 12-9-69, Cl. 328-119.
Meranto, Samuel R., to Mahassel, Albert A., and Nylin, G. Kendall. Massage device. 3,424,150, 1-28-69, Cl. 128-67.
Mercade, Venancio V., to Engelhard Minerals & Chemicals Corporation. Froth flotation of complex zinc-tin ore. 3,454,161, 7-8-69, Cl. 209-167.
Mercade, Venancio, to Engelhard Minerals & Chemicals Corporation, mesne. Talc beneficiation. 3,459,299, 8-5-69, Cl. 209-3.
Mercade, Venancio, to Engelhard Minerals & Chemicals Corporation, mesne. Method for beneficiating clay by flotation of colored impurities. 3,462,013, 8-19-69, Cl. 209-5.
Mercaldo, Raymond G.: *See—*
Heiland, Wolfgang K.; and Mercaldo, Raymond G.,3,456,576.
Mercea, Viorica: *See—*
Segarceanu, Tudor; Cornea, Andrei; and Mercea, Viorica,3,462,352.
Mercer, Alec V.: *See—*
Ashworth, Roger W.; and Mercer, Alec V.,3,450,675.
Mercer, Frank Brian: *See—*
Martin, Keith F.; and Mercer, Frank Brian,3,444,588.
Mercer, George Kenneth, to Dunlop Company Limited, The. Valves for controlling the flow of fluids. 3,485,267, 12-23-69, Cl. 137-599.2
Mercer, Gordon E. Automatic balancer. 3,433,534, 3-18-69, Cl. 301-5.
Mercer, James B. Treatment of arteriosclerotic and arteriospastic diseases with 1-(B hydroxyethyl) 2-methyl-5- nitroimidazole. 3,442,899, 5-6-69, Cl. 424-273.
Mercer, Neil H.; and Bryan, Hugh D., to Mead Johnson & Company. Bronchodilator expectorant elixir. 3,467,754, 9-16-69, Cl. 424-253.
Mercer, Robert L., to General Motors Corporation. Dishwasher with multiple spray arm. 3,468,486, 9-23-69, Cl. 239-251.
Merchant, Chester O., to Kentucky Electronics, Inc. Cathode ray tube color gun centering brace welding system. 3,435,179, 3-25-69, Cl. 219-78.
Merchant, Chester O., to Kentucky Electronics, Inc. Automatic machine for making convergence cup electrodes for color television tubes. 3,485,124, 12-23-69, Cl. 83-182.
Merchant, Chester O.; and Johnson, Jay H., to Kentucky Electronics, Inc. Color gun beading apparatus. 3,434,819, 3-25-69, Cl. 65-155.
Merchant, Leo F.: *See—*
Noakes, Thomas E.; and Merchant, Leo F.,3,478,774.
Merchant, Morris V.: *See—*
Schwenkler, Joseph J.; and Merchant, Morris V.,3,485,656.
Merchlewitz, Anthony W.: *See—*
Porter, Alvin J.; and Merchlewitz, Anthony W.,3,486,503.
Merchlewitz, Anthony W., to Pillsbury Company, The. Liquid dispensing container and cap therefor. 3,434,631, 3-25-69, Cl. 222-213.
Mercier, Alfred C.: *See—*
Allen, Harry R.; and Mercier, Alfred C.,3,479,594.
Mercier, Claude A. L. L.: *See—*
Thiebaut, Roger P. J. G.; Dubosc, Jean-Pierre C. G.; and Mercier, Claude A. L. L.,3,485,624.
Mercier, George E., to Westinghouse Electric Corporation. Protective gap and by-pass switch for series capacitor installations. 3,485,979, 12-23-69, Cl. 200-148.
Mercier, George E.: *See—*
Innis, Robert T.; and Mercier, George E.,3,467,934.
Mercier, Jacques H., to Olaer Patent Company. Pressure vessel with control device. 3,450,162, 6-17-69, Cl. 138-30.
Mercier, Jacques H. Closure means for cover member of pressure vessel. 3,454,191, 7-8-69, Cl. 220-55.
Mercier, Jacques H., to Olaer Patent Company. Pressure device. 3,486,530, 12-30-69, Cl. 138-30.
Mercier, Jacques H.; and Corbellini, Carlo, to Olaer Patent Company. Pressure vessels. 3,450,163, 6-17-69, Cl. 138-30.
Mercier, Jean-Francois Marie Maurice Edmond: *See—*
Van Den Broek d'Obrenan, Gerard Marie Edouard; and Mercier, Jean-Francois Marie Maurice Edmond,3,441,930.
Mercier, Jean. Hydraulic control equipment. 3,423,934, 1-28-69, Cl. 60-52.
Mercier, Jean. Position control system. 3,436,915, 4-8-69, Cl. 60-52.
Mercier, Jean. Locking member for liquid outlet plug of pressure accumulator. 3,439,712, 4-22-69, Cl. 138-30.
Mercier, Jean. Pressure control unit for hydraulic systems. 3,444,880, 5-20-69, Cl. 137-108.
Mercier, Jean. Valve systems. 3,448,757, 6-10-69, Cl. 137-108.
Mercier, Jean. Position control system. 3,468,126, 9-23-69, Cl. 60-52.
Mercier, Jean. Position control system. 3,473,324, 10-21-69, Cl. 60-52.
Mercier, Jean. Servocontrol valve and system. 3,477,472, 11-11-69, Cl. 137-625.62
Mercier, Jules: *See—*
Biarnais, Paul; Alheritiere, Louis; Gobron, Georges; Mercier, Jules; Meunier, Gaston; and Lemaistre, Rene,3,483,151.
Merck & Co., Inc.: *See—*
Apelian, Henry M.; and Blodinger, Jack, 3,459,863.
Bicking, John B.; and Cragoe, Edward J., Jr., 3,458,565.
Bolhofer, William A.; and Sprague, James M., 3,453,273.
Bolhofer, William A.; and Baldwin, John J., 3,465,001.
Bolhofer, William A.; and Baldwin, John J., 3,465,002.
Bollinger, Frederick W.; Portnoff, Joel B.; and Davidson, Alan J., 3,482,015.
Brindamour, Normand E., 3,461,089.
Bugianesi, Robert L.; and Linn, Bruce O., 3,481,985.
Carey, Daniel J.; Gal, George; Sletzinger, Meyer; and Reinhold, Donald F., 3,471,514.
Chemerda, John M.; Sletzinger, Meyer; and Bollinger, Frederick W., 3,462,536.
Chemerda, John Martin; and Sletzinger, Meyer, 3,449,364.
Chemerda, John Martin; and Sletzinger, Meyer, 3,454,594.
Chemerda, John Martin; and Sletzinger, Meyer, 3,457,275.
Chemerda, John Martin; and Sletzinger, Meyer, 3,457,276.
Chemerda, John Martin; and Sletzinger, Meyer, 3,467,669.
Cherkas, Max A.; and Martin, Ellwood T., Jr., 3,439,089.
Christensen, Burton G.; Leanza, William J.; and Rasmusson, Gary H., 3,442,938.
Clark, Robert L.; Patchett, Arthur A.; and Rogers, Edward F., 3,474,169.
Conn, John B., 3,459,760.
Cope, Arthur C.; and Burrows, William Dickinson, 3,422,451.
Cope, Arthur C.; Engelhardt, Edward L.; Keene, Katheryn, executris of the estate of; and Cope, Arthur C., deceased, 3,454,643.
Cragoe, Edward J., Jr., 3,445,511.
Cragoe, Edward J., Jr., 3,450,750.
Cragoe, Edward J., Jr., 3,458,563.
Cragoe, Edward J., Jr.; and Bicking, John B., 3,465,022.
Cragoe, Edward J., Jr.; and Jones, James H., 3,472,848.
Cragoe, Edward J., Jr., 3,478,085.
Cragoe, Edward J., Jr., 3,479,402.
Cragoe, Edward J., Jr.; and Baldwin, John J., 3,483,227.
Cragoe, Edward J., Jr.; and Jones, James H., 3,487,082.
Cuckler, Ashton C.; Egerton, John R.; and Zeissig, Alexander, 3,484,519.
DiNetta, Joseph; and Egerton, John R., 3,484,520.
Dorn, Conrad P.; and Shen, Tsung-Ying, 3,457,300.
Engelhardt, Edward L.; and Christy, Marcia E., 3,428,677.

Engelhardt, Edward L., 3,428,735.
Firestone, Raymond A.; Reinhold, Donald F.; and Sletzinger, Meyer, 3,466,315.
Gaines, Walter A.; and Reinhold, Donald F., 3,448,098.
Gaines, Walter A.; Reinhold, Donald F.; and Sletzinger, Meyer, 3,483,220.
Gal, George; and Sletzinger, Meyer, 3,454,593.
Gal, George, 3,458,528.
Gal, George; and Sletzinger, Meyer, 3,470,203.
Garber, John D.; and Jones, Robert E., 3,483,228.
Gasser, Robert A.; and Cooper, Pascal W., 3,436,405.
Glamkowski, Edward J.; and Sletzinger, Meyer, 3,435,075.
Grier, Nathaniel, 3,452,143.
Henry, David W.; and Hoff, Dale R., 3,472,864.
Hess, Duane C.; and Allen, Donald J., 3,487,138.
Hirschmann, Ralph F.; and Mrozik, Helmut, 3,462,464.
Hirschmann, Ralph F.; and Patchett, Arthur A., 3,475,418.
Hoffman, Frances G., 3,453,297.
Hoffsommer, Robert D., Jr.; Taub, David; and Wendler, Norman L., 3,454,656.
Jacques, Jean, 3,439,022.
Jacques, Jean, 3,439,040.
Johnston, David B. R.; Patchett, Arthur A.; and Windholz, Thomas B., 3,487,076.
Jones, James H.; and Cragoe, Edward J., Jr., 3,461,123.
Jones, Robert E.; and Robinson, Samuel A., 3,433,807.
Kollonitsch, Janos, 3,445,519.
Kollonitsch, Janos, 3,446,815.
Kollonitsch, Janos, 3,459,764.
Kollonitsch, Janos, 3,461,125.
Kollonitsch, Janos, 3,462,460.
Kollonitsch, Janos, 3,471,511.
Kollonitsch, Janos; and Verdi, Vincent F., 3,471,512.
Kuo, Chan Hwa; Taub, David; and Wendler, Norman L., 3,449,380.
Kuo, Chan-Hwa; Taub, David; and Wendler, Norman L., 3,472,881.
La Pierre, Raymond J., 3,475,444.
Meigs, Frederick M.; Micchelli, Albert L.; and Wasserman, David, 3,475,386.
Nelson, Carl E.; Baer, John E.; and Foltz, Elwood L., 3,476,858.
Nelson, Carl Edward, 3,478,151.
Paleveda, William J., Jr.; and Schoenewaldt, Erwin F., 3,452,096.
Patchett, Arthur A.; Clark, Robert L.; and Rogers, Edward F., 3,448,193.
Patchett, Arthur A.; Rogers, Edward F.; and Clark, Robert L., 3,449,403.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J., 3,453,265.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J., 3,454,557.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J., 3,479,401.
Pollak, Peter I., 3,429,897.
Pollak, Peter I.; and Tull, Roger J., 3,432,502.
Pollak, Peter I.; and Tull, Roger J., 3,444,165.
Pollak, Peter I.; and Tull, Roger J., 3,449,341.
Pollak, Peter I.; and Tull, Roger J., 3,472,847.
Reinhold, Donald F.; Gaines, Walter A.; and Sletzinger, Meyer, 3,480,670.
Remy, David C., 3,475,438.
Rogers, Edward F.; and Clark, Robert L., 3,422,200.
Rogers, Edward F.; and Clark, Robert L., 3,429,969.
Rogers, Edward F.; and Clark, Robert L., 3,431,300.
Rogers, Edward F.; Clark, Robert L.; and Patchett, Arthur A., 3,478,084.
Sarett, Lewis H.; Strachan, Robert G.; and Hirschmann, Ralph F., 3,427,300.
Sarett, Lewis H.; Strachan, Robert G.; and Hirschmann, Ralph F., 3,427,300.
Sarett, Lewis H.; Rooney, Clarence S.; and Peterson, Louis H., 3,439,019.
Sarett, Lewis H.; Bry, Thomas S.; Fried, John; Oberster, Arthur E.; and Beyler, Roger E., 3,452,007.
Sarett, Lewis H.; and Brown, Horace D., 3,471,508.
Sarett, Lewis H.; and Brown, Horace D., 3,478,046.
Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W., 3,487,087.
Schoenewaldt, Erwin F., 3,435,046.
Schultz, Everett M., 3,431,291.
Schultz, Everett M.; and Cragoe, Edward J., Jr., 3,445,503.
Schwam, Harvey, 3,467,667.
Shen, Tsung-Ying; and Sarett, Lewis H., 3,426,038.
Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr., 3,438,992.
Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr., 3,444,175.
Shen, Tsung-Ying; and Sarett, Lewis H., 3,449,348.
Shen, Tsung-Ying; and Matzuk, Alexander, 3,449,349.
Shen, Tsung-Ying; and Shunk, Clifford H., 3,449,368.
Shen, Tsung-Ying; Dorn, Conrad P., Jr.; and Ruyle, William V., 3,452,079.
Shen, Tsung-Ying, 3,462,450.
Shen, Tsung-Ying; and Ruyle, William V., 3,463,850.
Shen, Tsung-Ying; and Dorn, Conrad P., Jr., 3,466,372.
Shen, Tsung-Ying; and Linn, Bruce O., 3,483,254.
Shunk, Clifford H.; and Shen, Tsung-Ying, 3,466,377.
Slates, Harry L.; and Wendler, Norman L., 3,423,302.
Sletzinger, Meyer; and Hoff, Dale R., 3,429,890.
Sletzinger, Meyer, 3,442,909.
Sprague, James M.; and Bolhofer, William A., 3,452,081.
Sprague, James M.; and Schultz, Everett M., 3,453,312.
Sprague, James M.; and Cragoe, Edward J., Jr., 3,478,021.
Stone, Clement A., 3,457,354.
Stone, Clement A., 3,467,756.
Taub, David, 3,422,121.
Taub, David, 3,454,600.
Taub, David; Wendler, Norman L.; and Slates, Harry L., 3,461,144.
Taub, David; Wendler, Norman L.; and Slates, Harry L., 3,485,854.
Tull, Roger J.; Weinstock, Leonard M.; and Davis, Paul, 3,484,452.
Verdi, Vincent F., 3,450,710.
Walton, Edward, 3,431,252.
Walton, Edward, 3,480,613.
Weinstock, Leonard M.; and Tull, Roger J., 3,423,475.
Weinstock, Leonard M., 3,440,246.
Weinstock, Leonard M.; Schaeffer, James C.; and Mulvey, Dennis M., 3,455,919.
Weinstock, Leonard M.; Tull, Roger J.; and Pollak, Peter I., 3,467,653.
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa, 3,435,044.
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa, 3,441,568.
Wendler, Norman L., 3,442,949.
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa, 3,450,706.
Wendler, Norman L., 3,452,009.
Wendler, Norman L., 3,474,150.
Wendler, Norman L.; and Slates, Harry L., 3,487,077.
Winter, Charles A., 3,461,208.
Woodhour, Allen F.; and Metzgar, Don P., 3,485,721.

Merck, E., A.G.: *See*—
Baron, Heinrich; Klink, Rainer; and Mohr, Gunther, 3,426,124.
Baron, Karl Heinrich; Klink, Rainer; and Reiff, Fritz, 3,448,190.
Bruckner, Klaus; Beerstecher, Wolfgang; Kraft, Hans-Gunther; and Kieser, Hartmut, 3,449,495.
Bruckner, Klaus, 3,462,425.
Daum, Whilhelm; and Sippel, Hans Joachim, 3,420,931.
Irmscher, Klaus; Kramer, Josef; Kraft, Hans-Gunter; and Kieser, Hartmut, 3,471,520.
Kramer, Josef; Irmscher, Klaus; Halpaap, Herbert; and Freibsberg, Karl-Otto, 3,433,805.
Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert, 3,450,717.
Kramer, Josef; Freisberg, Karl-Otto; and Halpaap, Herbert, 3,462,455.
Kramer, Josef; Halpaap, Herbert; and Freisberg, Karl-Otto, 3,484,448.
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart, 3,452,076.
Mohr, Gunther; Niethammer, Konrad; Lust, Sigmund; and Schneider, Gerhart, 3,468,895.
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst, 3,476,545.
Nurnberg, Eberhard, 3,424,842.
Pohlke, Rolf; Sommer, Siegmund; and Schorscher, Ernst, 3,452,010.
Rogalski, Werner; Wahlig, Helmut; and Hepding, Ludwig, 3,461,161.
Schmidt, Karl Gunther; Mohr, Gunther; and Lust, Sigmund, 3,481,946.
Schorre, Gustav, 3,472,862.
Schulte, Karl; Fruhstorfer, Wolfgang; Muller, Heinrich; Friebel, Hans; Enenkel, Hans Joachim; and Gillissen, Josef, 3,461,164.
Unger, Richard, 3,472,858.
Wittmann, Rolf, 3,424,550.

Merckle Fluzzeugwerke G.m.b.H.: *See*—
Kahne, Robert, 3,439,256.

Mercola, Peter A., to Beltone Electronics Corporation. Stabilized direct-coupled amplifier. 3,439,285, 4-15-69, Cl. 330-15.

Mercor Corporation: *See*—
Heehler, Arthur C.; and Taylor, George, 3,423,726.

Mercorella, Dominic J. Hair curler. 3,426,767, 2-11-69, Cl. 132-40.

Mercuri, Robert A., to Union Carbide Corporation. Densification of boride compositions. 3,437,606, 4-8-69, Cl. 252-520.

Mercuri, Robert A.: *See*—
Volk, Herbert F.; and Mercuri, Robert A.,3,446,607.

Mercurio, Andrew: *See*—
Emmons, William D.; and Mercurio, Andrew,3,468,973.

Mercurio, John A. Nasal filtering device. 3,457,917, 7-29-69, Cl. 128-140.
Mercurio, Leonard, to Appliance Operating Corporation. Coin vault door lock construction. 3,469,874, 9-30-69, Cl. 292-5.
Mercury Electric Products Mfg., Corp.: *See—*
Tanzman, Samuel, 3,427,545.
Merdian, Anton W., Jr., to General Electric Company. Temperature compensation of crystal-controlled circuit. 3,457,529, 7-22-69, Cl. 333-82.
Merdian, Anton W., Jr., to General Electric Company. Protection circuit for SCR pulse generator. 3,465,207, 9-2-69, Cl. 317-33.
Merdinyan, Philip H.: *See—*
Mears, James W.; and Merdinyan, Philip H.,3,420,310.
Merdler, Myron J.: *See—*
Jensen, Hans A.; and Merdler, Myron J.,3,478,488.
Meredith, Curtis L., to Copolymer Rubber & Chemical Corporation. Reinforced rubber articles with latex rubberized organic reinforcements and method of preparing the same. 3,480,066, 11-25-69, Cl. 152-359.
Meredith, Diven. Mass transfer device for contacting a liquid with a gas. 3,463,463, 8-26-69, Cl. 261-24.
Meredith, Eugene V. Grinding wheel and safeguarding mount therefor. 3,464,165, 9-2-69, Cl. 51-168.
Meredith, John. Ski attachments for wheels. 3,473,818, 10-21-69, Cl. 280-13.
Meredith, Loren W. Crop row corn harvesting apparatus. 3,462,921, 8-26-69, Cl. 56-17.
Meredith, Norman Arthur, to Gerling Limited. Disc brakes. 3,430,741, 3-4-69, Cl. 188-218.
Meredith, Oliver H. Grain blender. 3,430,354, 3-4-69, Cl. 34-172.
Meredith, Philip J.: *See—*
Liebel, Bruce W.; Edgington, Howard C.; and Meredith, Philip J.,3,479,585.
Meredith Publishing Co.: *See—*
Martinson, John L., 3,485,168.
Meredith Publishing Company: *See—*
Ehrlich, Joseph R., 3,438,927.
Meredith, Rupert Frederick Keith; and Risdon, Edward James, to Distillers Company Limited, The. Rubber reinforcing compositions comprising phenol/sulfur resins. 3,455,851, 7-15-69, Cl. 260-3.
Meredith, William R. Animal holding gate. 3,482,550, 12-9-69, Cl. 119-98.
Merenda, Carmine T.; Reich, Adolf F.; and Gustavson, Sterling T., to American Machine & Foundry Company. Cigar shaper. 3,428,051, 2-18-69, Cl. 131-79.
Mergens, George W.: *See—*
Dreyfoos, Alex W., Jr.; and Mergens, George W.,3,441,663.
Dreyfoos, Alex W., Jr.; and Mergens, George W.,3,471,740.
Mergenthaler, Helmut, to Keller, Otto. Gas cleaning apparatus. 3,464,189, 9-2-69, Cl. 55-256.
Merges, Herbert Alfred. Method and apparatus for reclaiming rubber scrap. 3,460,769, 8-12-69, Cl. 241-17.
Merges, Herbert Alfred; and Pasteka, Josef. Method and apparatus for continuously refining cocoa nibs and like material. 3,423,031, 1-21-69, Cl. 241-8.
Merget, Arthur B. Building blocks with a shell containing a filler and having projections and depressions connected by tubes. 3,440,788, 4-29-69, Cl. 52-405.
Mergler, Harry W., 1/10 to Case Institute of Technology. Marine speedometer and odometer. 3,433,065, 3-18-69, Cl. 73-187.
Mergner, Fritz L., to Fisher Radio Corporation. Recording system with signal return circuit for allowing the use of certain filters and amplifiers in both record and reproduce modes. 3,443,038, 5-6-69, Cl. 179-100.2
Mergner, George C.: *See—*
Williams, Albert J., Jr.; and Mergner, George C.,3,447,075.
Mergner, Walter, to United States of America, Navy, mesne. Radio frequency switch circuit with high decibel isolation. 3,454,791, 7-8-69, Cl. 307-259.
Merhof, Wilfried; and Stadler, Bruno, to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for monitoring rectifier component of rotor mounted exciter system for synchronous machine. 3,435,327, 3-25-69, Cl. 322-99.
Meri, Kalju, to Robosonics, Inc. Telephone ringing signal detection means. 3,469,036, 9-23-69, Cl. 179-84.
Meriam, Charles, to Meriam Instrument Company, The. Fluid characteristic measuring instrument. 3,473,387, 10-21-69, Cl. 73-401.
Meriam Instrument Company, The: *See—*
Meriam, Charles, 3,473,387.
Merica, Edward P., to Dow Chemical Company, The. Alkoxy aromatic ethers. 3,441,615, 4-29-69, Cl. 260-613.
Merica, Franklin E.: *See—*
Prance, Stanley R.; and Merica, Franklin E.,3,450,465.
Merideth, John G. Structural assembly of plaque components. 3,480,312, 11-25-69, Cl. 287-189.36
Merigold, Charles Reynolds; and Bauer, William Charles, to FMC Corporation. Particle size monitor. 3,478,597, 11-18-69, Cl. 73-422.
Merigoux, Jean Marie: *See—*
Fabri, Jean; Friberg, Jean Marie Eugene; Maginot, Pierre Henri Jean; Merigoux, Jean Marie; and Siestrunck, Raymond,3,447,740.
Merijan, Ashot; and Grosser, Frederick, to GAF Corporation. Alkylated terpolymers. 3,423,367, 1-21-69, Cl. 260-66.
Merijan, Ashot; and Grosser, Frederick, to GAF Corporation. Simultaneous copolymerization and alkylation of heterocyclic n-vinyl monomers with α-olefins. 3,423,381, 1-21-69, Cl. 260-88.1
Merijan, Ashot; and Grosser, Frederick, to GAF Corporation. Process of alkylating cyclic anhydrides. 3,474,110, 10-21-69, Cl. 260-340.2
Merijan, Ashot; and Grosser, Frederick, to GAF Corporation. Polymers of vinyl esters and N-vinyl-3-alkyl-lactams. 3,479,327, 11-18-69, Cl. 260-85.7
Merit Products, Inc.: *See—*
Block, Aleck, 3,466,816.
Block, Aleck, 3,486,276.
Burns, Russell W., 3,468,642.
Merk, Wilhelm, to Ciba Limited. Method for combating mites and ticks. 3,462,537, 8-19-69, Cl. 424-325.
Merkatoris, John R.: *See—*
Sanders, Charles J.; and Merkatoris, John R.,3,466,979.
Merke, Joseph P., Jr., to Plastic Moldings Corporation, The. Molded plastic impeller for mixing machine. 3,441,254, 4-29-69, Cl. 259-134.
Merkel, Charles M.; Salmon, Joe E.; and Brugh, Thomas H., to Continental/Moss-Fordin, Inc. Apparatus for tying a compressed bale. 3,475,879, 11-4-69, Cl. 53-124.
Merkel, Hans; and Leibenzeder, Siegfried, to Siemens Aktiengesellschaft. Method of producing highly pure, especially silicon-free, gallium arsenide. 3,480,394, 11-25-69, Cl. 23-204.
Merkel, Henry Mynderse, Jr., to Mentor Inc. Hygenic spray device for toilets. 3,462,766, 8-26-69, Cl. 4-7.
Merkel, Stephen L., to Educational Research Council of Great Cleveland. Mathematics teaching device. 3,432,943, 3-18-69, Cl. 35-31.
Merker, Joachim: *See—*
Huller, Adolf; Gundlich, Heinz; and Merker, Joachim,3,443,309.
Merker, Reuven; and Lucca, Salvatore, to Lumer Research Corporation. Electroless copper plating solutions. 3,453,123, 7-1-69, Cl. 106-1.
Merkl, George G. Step-by-step thermo-magnetic motor. 3,445,740, 5-20-69, Cl. 318-117.
Merkl, George G. Transformer with temperature controlled adjustable coupling. 3,454,914, 7-8-69, Cl. 336-57.
Merkl, George. Relay with contacts of mercury metal composition. 3,480,891, 11-25-69, Cl. 335-52.
Merklin, Edward Robert; and Schuster, Donald Ray, to American Standard Inc. Unit ventilator with inclined ramp for supporting air filter. 3,420,292, 1-7-69, Cl. 165-38.
Merklin, Edward Roy: *See—*
Schuster, Donald Robert; and Merklin, Edward Roy,3,443,506.
Merkurium A.G.: *See—*
Neidhart, Alfred, 3,431,899.
Merkwacz, Joseph, to Garlock, Inc. Reinforced expansion joint. 3,429,592, 2-25-69, Cl. 285-229.
Merlan, Julio. Self-propelling and steering attachment apparatus for a wheel chair. 3,485,510, 12-23-69, Cl. 280-250.
Merli, Paolo: *See—*
Gandino, Mario; Merli, Paolo; and Turilli, Oreste,3,443,955.
Merlin Gerin Societe Anonyme: *See—*
Bernard, Georges; and Pelenc, Yves, 3,466,541.
Pelenc, Yves, 3,482,124.
Merlin, Jean-Claude: *See—*
Paris, Jacques Maurice; Merlin, Jean-Claude; and Parks, Rene Antoine,3,484,376.
Merlo, Fabrizio: *See—*
Crotti, Argento; and Merlo, Fabrizio,3,459,729.
Mermelstein, Seymour, to Sylvania Electric Products, Inc. Article holding apparatus. 3,484,093, 12-16-69, Cl. 269-21.
Merna, Thomas F. Method and electrical heating means for warming body extremities. 3,465,120, 9-2-69, Cl. 219-211.
Mernitz, Paul R., to Leonard Refineries, Inc. Method and apparatus for agitating a test fluid. 3,439,528, 4-22-69, Cl. 73-53.
Merola, Anthony. Hollow, metal ball bat. 3,479,030, 11-18-69, Cl. 273-72.
Merola, Carl R.; and Mamrose, Wesley, to Westinghouse Electric Corporation. Brewing apparatus. 3,440,952, 4-29-69, Cl. 99-289.
Merolle, Augustus L. Method and apparatus for producing lug type closure caps. 3,438,348, 4-15-69, Cl. 113-1.
Merolli, Mario; and Paniccia, Edoardo. Apparatus for processing photographic film. 3,438,317, 4-15-69, Cl. 95-99.
Meronen, Teuvo. Arrangement in a filament-treating machine for threading the filament through the machine. 3,448,572, 6-10-69, Cl. 57-106.
Meroz, Charles: *See—*
Kohli, Willy; and Meroz, Charles,3,433,013.

Merrell, Kenneth C., to Robertshaw Controls Company. D.C. to A.C. converter for use with battery driven clocks and the like. 3,474,352, 10v21-69, Cl. 331-111.
Merrell, Kenneth C., to Robertshaw Controls Company. Capacitance to current transducer employing capacitor charged to preset voltage by constant current and feedback current related to capacitance change. 3,487,300, 12-30-69, Cl. 324-60.
Merren, Thomas Oliver, to Associated Electrical Industries Limited. Mass spectrometer magnetic analyzer having pole pieces composed of spaced paramagnetic Kingsbury Technology Inc., mesne. 3,465,142, 9-2-69, Cl. 250-41.9
Merriam, Charles N.; and Saunders, Eleanor E., to Union Carbide Corporation. Flame resistant polyarylene polyethers. 3,468,844, 9-23-69, Cl. 260-45.75
Merrick, James W., to Shell Oil Company. Multivibrator capacitor microphone circuit. 3,440,348, 4-22-69, Cl. 179-1.
Merrick, John A.; and Hovestad, Adrian P., to Service Steel & Engineering Limited. Dockboard. 3,475,778, 11-4-69, Cl. 14-71.
Merrick, Robert G. Watch with transparent calendar. 3,464,200, 9-2-69, Cl. 58-58.
Merricks, James A.: *See—*
Gergle, Richard C.; and Merricks, James A.,3,433,667.
Merrifield, Dudley Bruce: *See—*
Nudenberg, Walter; Merrifield, Dudley Bruce; and Delaney, Edward Axel,3,424,736.
Merrill, Alan M.; and Cieslik, Robert J., to Scott Paper Company. Roll removal and shaft handling apparatus and method for rewinder. 3,473,748, 10-21-69, Cl. 242-55.
Merrill Brothers: *See—*
Gardner, Edward Merrill, 3,441,308.
Merrill, Claude E., to Dow Chemical Company, The. Process for preparing 2-[tris(difluoroamino)methoxy] ethylamine perchlorate. 3,449,433, 6-10-69, Cl. 260-584.
Merrill, Duane F., to General Electric Company. Method for hydrolyzing organochlorosilanes. 3,435,001, 3-25-69, Cl. 260-46.5
Merrill, Duane F., to General Electric Company. Organosilsesquioxanes and a method for making them. 3,450,672, 6-17-69, Cl. 260-46.5
Merrill, Edward M., to Cutting Room Appliances Corporation. Cloth laying machine for knit goods. 3,435,921, 4-1-69, Cl. 188-75.
Merrill, Edward M., to Cutting Room Appliances Corporation. Web loading device for cloth laying machines. 3,458,185, 7-29-69, Cl. 270-31.
Merrill, Edward W., to United States of America, Navy, mesne. Method and apparatus for drag reduction. 3,435,796, 4-1-69, Cl. 114-67.
Merrill, Jack D.: *See—*
Hanks, Charles W.; Merrill, Jack D.; and Peterson, Harold A.,3,420,977.
Merrill, Marcellus Stanley. Apparatus for detecting wheel unbalance. 3,483,756, 12-16-69, Cl. 73-457.
Merrill, Ralph K., Jr.; Burnett, Edward N.; and Sparks, Thomas B., to Gerber Products Company. Sterile nursing bottle package. 3,439,824, 4-22-69, Cl. 215-11.
Merrill, Richard C.: *See—*
Wright, Archibald N.; and Merrill, Richard C.,3,447,218.
Merrill, Ronald Earl. Foundation wall construction and method of constructing same. 3,461,639, 8-19-69, Cl. 52-744.
Merrill Stewart H.: *See—*
Borden, Douglas G.; Unruh, Cornelius C.; and Merrill Stewart H.,3,453,237.
Merrill, Taylor S.; and Johnson, Donald D., to Buehner, Otto & Company. Insulated, reinforced concrete, panel-type, building unit. 3,435,580, 4-1-69, Cl. 52-405.
Merrimac Research and Development, Inc.: *See—*
Cappucci, Joseph D.; and Seidel, Harold, 3,452,300.
Cappucci, Joseph D.; and Seidel, Harold, 3,452,301.
Merriman, James Arthur. Bale density meter. 3,427,870, 2-18-69, Cl. 73-81.
Merriman, Wayne R., to Dow Chemical Company, The. On-stream cleaning of wood chip digesters using chelating. 3,448,003, 6-3-69, Cl. 162-38.
Merrin, Seymour: *See—*
Guthrie, Joseph E.; and Merrin, Seymour,3,474,718.
Merrin, Seymour; Silver, Melvyn D.; and Suden, Edward M., to International Business Machines Corporation. Method of fabricating a bonded joint. 3,436,818, 4-8-69, Cl. 29-626.
Merritt & Company (Engineering) Limited: *See—*
Merritt, Henry E., 3,430,523.
Merritt, Bernard J.: *See—*
Alexander, Max H.; and Merritt, Bernard J.,3,445,146.
Merritt, Donald E.: *See—*
Kress, Ralph H.; Medley, Jackson C.; and Merritt, Donald E.,3,427,075.
Merritt, Edward E.; Titterud, Curtiss W.; Peterson, Stanley E.; and Bulow, Arthur J., to Federal Cartridge Corporation. Supporting die. 3,478,390, 11-18-69, Cl. 18-14.
Merritt, Henry E., to Merritt & Company (Engineering) Limited. Gyratory gearing. 3,430,523, 3-4-69, Cl. 74-805.
Merritt, James A.; and Wedin, James A., to Coast Manufacturing & Supply Company. Ladder construction. 3,481,428, 12-2-69, Cl. 182-46.
Merritt, John B., to Jackson, Byron, Inc. Plugs for use in treating wells with liquids. 3,434,539, 3-25-69, Cl. 166-153.
Merritt, Richard F., to Rohm & Haas Company. Fluorinated olefins. 3,487,093, 12-30-69, Cl. 260-397.2
Merrow Machine Company, The: *See—*
Armstead, George B., Jr., 3,450,078.
Merry, Clayton B. Snow removal apparatus. 3,429,060, 2-25-69, Cl. 37-43.
Merry, Roydon William: *See—*
Stark, Frank Benjamin; and Merry, Roydon William,3,462,726.
Stark, Frank Benjamin; and Merry, Roydon William,3,479,635.
Merry, Stanley H., to United States of America, Navy, mesne. Quick acting hatch cover. 3,423,877, 1-28-69, Cl. 49-211.
Merryfield, Gorge E., deceased (by Hawk, Darall G., administrator); and Cabbage, John T., to Phillips Petroleum Company. Method for production of cyclohexane. 3,450,783, 6-17-69, Cl. 260-667.
Merryman, Jerry D.: *See—*
Biard, James R.; and Merryman, Jerry D.,3,436,548.
Merryweather, Robin Arnold: *See—*
Butler, Kenneth James; and Merryweather, Robin Arnold,3,453,460.
Loukes, David Gordon; and Merryweather, Robin Arnold,3,467,512.
Mersch, Georges. Phase displacement device of two shafts. 3,469,460, 9-30-69, Cl. 74-57.
Merser, Francis G., to Dennison Manufacturing Company. Tag-attaching or bundle-fastening device. 3,422,499, 1-21-69, Cl. 24-16.
Merser, Francis G., to Dennison Manufacturing Company. Connector for holding articles together. 3,462,802, 8-26-69, Cl. 24-16.
Merser, Francis G., to Dennison Manufacturing Company. Tag and attaching means. 3,462,864, 8-26-69, Cl. 40-2.
Mersereau, Everard C., to Ellcon-National, Inc. Brake mechanism. 3,442,358, 5-6-69, Cl. 188-202.
Mersereau, Robert E.: *See—*
Binzoni, Emilio M.; Mersereau, Robert E.; and Wilson, Donald L.,3,473,799.
Mersfelder, Robert E.: *See—*
Going, Louis H.; Mersfelder, Robert E.; and Schmitt, Robert O.,3,450,727.
Merson, Karol J.W., to Anthes Imperial Limited. Load supporting structure. 3,477,189, 11-11-69, Cl. 52-648.
Mertel, Heinz: *See—*
Pfleiderer, Friedrich; Mertel, Heinz; Hoffmann, Erik; and Seidel, Ekkehard,3,428,753.
Merten, Heinrich: *See—*
Schwarz, Ottmar; and Merten, Heinrich,3,447,494.
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Flame resistant polyurethane plastics. 3,428,577, 2-18-69, Cl. 260-2.5
Merten, Rudolf; Bayer, Otto; Braun, Gunther; and Kaiser, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Flame resistant polyurethane plastics. 3,428,578, 2-18-69, Cl. 260-2.5
Merten, Rudolf; and Zecher, Wilfried, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of polymers by reacting glycine derivatives and polyisocyanates. 3,448,170, 6-3-69, Cl. 260-858.
Merten, Rudolf: *See—*
Muller, Gerhard; and Merten, Rudolf,3,445,477.
Merten, Ulrich, to Gulf General Atomic Incorporated, mesne. Process for continuously casting a semi-permeable membrane. 3,429,957, 2-25-69, Cl. 264-49.
Mertens, Gottfried: *See—*
Stanke, Walter; and Mertens, Gottfried,3,464,074.
Mertens, Johan J., to American Enka Corporation. Process for producing a crimped multifilament yarn. 3,431,716, 3-11-69, Cl. 57-34.
Mertens, William J., to Avco Corporation. Variable drag ogive. 3,485,460, 12-23-69, Cl. 244-3.1
Mertens, Willi, to Siemens Aktiengesellschaft. Method and means for producing a laminated insulation from tape-supported inorganic particle layers impregnated with thermosetting epoxide-hardener mixtures. 3,458,389, 7-29-69, Cl. 161-170.
Merther, Kenneth Leslie, to Eagle Engineering Company Limited. Refuse collecting vehicles. 3,455,471, 7-15-69, Cl. 214-83.3
Mertl, Klaus: *See—*
Volker, Ulrich; Fabian, Heinz; and Mertl, Klaus,3,485,331.
Mertsoc, Martin M.: *See—*
Claypoole, Stewart A.; and Mertsoc, Martin M.,3,439,395.
Mertwoy, Helen; and Gisser, Henry, to United States of America, Army. Oxidatively stable alkylbiphenyls and terphenyls as nonspreading lubricants. 3,426,076, 2-4-69, Cl. 260-612.
Mertz, Lawrence N., to Block Engineering, Inc. Catoptric light collector. 3,469,902, 9-30-69, Cl. 350-294.
Mertz, Lawrence N., to Block Engineering, Inc. Optical device for detecting a relatively low intensity spectrum line. 3,469,923, 9-30-69, Cl. 356-106.

Mertzweiller, Joseph K.; Cull, Neville L.; and Hawley, Roger S., said Mertzweiller and said Cull assors to Esso Research and Engineering Company. Glass fibers sized with hydroformylated polymer and laminate therefrom. 3,425,895, 2-4-69, Cl. 161-204.
Mervoimien Esikunta: *See—*
Huhta-Koivisto, Esko Ensio, 3,469,137.
Merwin, Robert F.; and Weiss, Fred W., to Eriez Manufacturing Co. Permanent magnetic conveyor and elevator. 3,476,232, 11-4-69, Cl. 198-41.
Merx Optical Company Limited: *See—*
Barton, George B., 3,440,702.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl, to Boehringer Ingelheim G.m.b.H. Novel 1-(cycloalkylideneethyl)-4-phenyl- piperidines. 3,462,427, 8-19-69, Cl. 260-240.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl, to Boehringer Ingelheim GmbH. N-Allylic cyclohexyl lower alkyl normorphines. 3,466,277, 9-9-69, Cl. 260-240.
Merz, Herbert; Shroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl, to Boehringer Ingelheim G.m.b.H. Novel 1-cycloalkenylpiperidines. 3,438,990, 4-15-69, Cl. 260-294.3
Merz, Max, to Nicholson File Company. Chain saw bar. 3,473,581, 10-21-69, Cl. 143-32.
Merz, Walter J.: *See—*
Fatuzzo, Ennio; and Merz, Walter J.,3,463,973.
Merz, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of isocyanates and isothiocyanates. 3,444,231, 5-13-69, Cl. 260-453.
Merz, William C.; and Klopp, Donald W., to Honeywell Inc., mesne. Rapid activating battery. 3,480,480, 11-25-69, Cl. 136-90.
Mescher, Harold E.: *See—*
Heyer, Walter E.; and Mescher, Harold E.,3,441,259.
Meschi, Joseph E.: *See—*
Bartlett, Peter G.; and Meschi, Joseph E.,3,466,468.
Bartlett, Peter G.; and Meschi, Joseph E.,3,466,618.
Meschino, Joseph A., to McNeil Laboratories, Inc.Di-(R_1-R_2-Hydroxymethyl)-cyclopentadienes. 3,426,033, 2-4-69, Cl. 260-296.
Meschino, Joseph Albert: *See—*
Mohrbacher, Richard Joseph; Meschino, Joseph Albert; and Rasmussen, Chris Royce,3,424,757.
Meschino, Joseph Albert, to McNeil Laboratories, Inc. 2-Benzazepine derivatives. 3,483,186, 12-9-69, Cl. 260-239.
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; and Rasmussen, Chris Royce, to McNeil Laboratories, Inc. Di-substituted 5-norbornene 2,3-dicarboximides. 3,453,271, 7-1-69, Cl. 260-240.
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; Rasmussen, Chris Royce; and Plampin, James Nelson, to McNeil Laboratories, Inc.1,4 and 1,5 Bis [γhydroxy-γ,γdi-(2- pyridylmethyl)]-5-norbornene-2,3-dicarboximide and derivatives thereof. 3,436,396, 4-1-69, Cl. 260-295.
Mesek, Frederick K.; and Repke, Virginia, to Johnson & Johnson. Filter media. 3,452,877, 7-1-69, Cl. 210-491.
Mesek, Frederick K.; and Shepherd, Robert C., to Johnson & Johnson. Method of making a nonwoven fabric. 3,483,051, 12-9-69, Cl. 156-62.2
Mesek, Frederick K.; and Strickel, William R., to Johnson & Johnson. Method of making a non-woven fabric by splitting. 3,437,539, 4-8-69, Cl. 156-254.
Meseke, Curt Th.; and Winkler, Winfried, to Hammer-Lit G.m.b.H. Closure and suspending device for bags open at the top. 3,430,754, 3-4-69, Cl. 198-177.
Meserole, William H. Striping tape. 3,475,259, 10-28-69, Cl. 161-36.
Meservey, Robert H., to Massachusetts Institute of Technology. Light reflecting magnetic liquid apparatus for mapping magnetic fields. 3,443,214, 5-6-69, Cl. 324-43.
Mesh, Theodore J., to Gilbert & Barker Manufacturing Company. Fluid dispenser having multiple signal generators. 3,448,843, 6-10-69, Cl. 194-5.
Mesh, Theodore J., to Gilbert & Barker Manufacturing Company. Pre-set automatic dispensing system. 3,448,895, 6-10-69, Cl. 222-20.
Meshberg, Philip. Dispensing two materials simultaneously from different compartments. 3,455,489, 7-15-69, Cl. 222-94.
Meshberg, Philip. Aerosol metering valve. 3,464,596, 9-2-69, Cl. 222-402.2
Meshberg, Philip. Means for dispensing material under pressure. 3,484,023, 12-16-69, Cl. 222-402.11
Meskan, Clarence F. Snowmobile with stabilizing means. 3,487,437, 12-30-69, Cl. 180-5.
Meskanen, Olavi Herman, to Valmet Oy. Press cylinder for paper machines and pulp drying machine. 3,447,451, 6-3-69, Cl. 100-121.
Mesko, John E. Pipe joint having pressure balancing means. 3,475,041, 10-28-69, Cl. 285-95.
Mesler, Larry L., to Microwave Associates, Inc. Semiconductor diode construction and mounting. 3,460,002, 8-5-69, Cl. 317-234.
Mesler, Lilburn L., to American Chain & Cable Company, Inc. Wire reinforced conduit. 3,477,474, 11-11-69, Cl. 138-133.
Mesmer, Robert E., to Monsanto Company. Monofluoropolyphosphates. 3,420,620, 1-7-69, Cl. 23-50.
Mesmer, Robert E.: *See—*
Hudson, Robert B.; and Mesmer, Robert E.,3,431,069.
Mess, Alfred W. Grinder for truing and smoothing the tires of the mammoth rotary kilns used in the manufacture of cement and similar purposes. 3,466,808, 9-16-69, Cl. 51-99.
Messa, Matthew A.: *See—*
Messa, Matthew A.; and Turnicky, Walter, 3,483,979.
Messa, Matthew A.; and Turnicky, Walter, to Messa, Matthew A., mesne. Water purification apparatus. 3,483,979, 12-16-69, Cl. 210-94.
Messen-Jaschin, Gregori, to Messen-Jaschin, G.A. Electrostatic dust separator. 3,421,291, 1-14-69, Cl. 55-114.
Messen-Jaschin, Gregori, to Messen-Jaschin, G. A. Apparatus for purifying air. 3,434,267, 3-25-69, Cl. 55-101.
Messen-Jaschin, Gregori. Device for purifying exhaust gas by means of electric filters. 3,440,800, 4-29-69, Cl. 55-122.
Messen-Jaschin, G. A.: *See—*
Messen-Jaschin, Gregori, 3,434,267.
Messen-Jaschin, G.A.: *See—*
Messen-Jaschin, Gregori, 3,421,291.
Messenger, Joseph U., to Mobil Oil Corporation. Method for achieving turbulence in cementing wells. 3,467,193, 9-16-69, Cl. 166-292.
Messenger, Joseph U.; and Webster, William W., to Mobil Oil Corporation. Oil recovery method using steam stimulation of subterranean formation. 3,454,095, 7-8-69, Cl. 166-303.
Messenheimer, Alva Donald: *See—*
Morris, George Richard, 3,462,038.
Messer, Chester R., to Page Belting Company. Bumper for picker stick control. 3,426,808, 2-11-69, Cl. 139-166.
Messer, Chester R., to Page Belting Company. Check strap and method of making the same. 3,434,509, 3-25-69, Cl. 139-161.
Messer, Chester R., to Page Belting Company. Air-cushioned bumper. 3,441,062, 4-29-69, Cl. 139-166.
Messer Griesheim G.m.bH.: *See—*
Bechtle, Anton Josef Richard; and Roder, Georg, 3,424,013.
Dombruch, Franz; Gutermann, Traugott; and Teske, Karl W. E., 3,484,044.
Gutermann, Traugott; and Maurer, Georg, 3,424,385.
Hahne, Siegfried, 3,426,175.
Henn, Erwin; and Himm, Dieter, 3,446,441.
Heymann, Hans; and Rottmann, Hans, 3,473,721.
Iken, Horst; and Schrage, Manfred, 3,441,634.
Lange, Gerhardt, 3,446,969.
Liebe, Holm; Heider, Johann; and Hatzfeld, August, 3,471,676.
Lotz, Horst K., 3,428,302.
Lotz, Horst K., 3,432,366.
Messer, Hans, 3,446,678.
Muller, Sebastian; Klarner, Ewald; and Wagner, Horst, 3,463,474.
Rische, Ernst A., 3,461,680.
Rische, Ernst A., 3,477,239.
Roder, Georg, 3,434,706.
Roder, Georg, 3,443,804.
Roder, Georg, 3,445,102.
Roder, Georg Adam, 3,442,499.
Wernicke, Hans-Joachim, 3,443,803.
Witting, Ernst, 3,432,637.
Messer, Hans, to Messer Griesheim GmbH. Process for heat working metals. 3,446,678, 5-27-69, Cl. 148-9.
Messer, Leonard. High solid content slurry separating method. 3,423,313, 1-21-69, Cl. 210-54.
Messer, Mayer Naoum: *See—*
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum,3,424,748.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum,3,450,698.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum,3,455,917.
Messerly, Robert H.: *See—*
Pitchford, Irvin M.; and Messerly, Robert H.,3,478,899.
Messerschmidt, Friedrich. Needle type fuel injection assembly. 3,442,491, 5-6-69, Cl. 251-367.
Messerschmidt, Friedrich, to Bosch, Robert, G.m.b.H. Fuel injection nozzle for internal combustion engines. 3,450,351, 6-17-69, Cl. 239-533.
Messerschmidt, Harold: *See—*
Heyman, Karl; and Messerschmidt, Harold,3,469,980.
Messerschmitt-Bolkow Gesellschaft mit beschrankter Haftung: *See—*
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz, 3,466,969.
Messersmith, Lewis D.; Smith, George Revere; and Waller, James R., Jr., to Mobil Oil Corporation. Control interface for computer controlled supervisory system. 3,444,520, 5-13-69, Cl. 340--163
Messick, Thomas M.: *See—*
Hood, R. T., Jr.; Ruger, George A.; and Messick, Thomas M.,3,437,280.

Messina, Benedicto U.: *See—*
Calta, Salvatore A.; Carlson, Harry A.; Granito, Gerry D.; Kaumeyer, Lynn W.; Marcotte, Alphonse U.; and Messina, Benedicto U.,3,447,135.
Messina, Philip: *See—*
Stryker, Abner B., Jr.; and Messina, Philip,3,462,404.
Messing, Bernd: *See—*
Wolff, Justus; and Messing, Bernd,3,422,496.
Messing, Donald A.; Child, Edward T.; and Peck, Reese A., to Texaco Inc. Hydrocracking catalyst. 3,424,670, 1-28-69, Cl. 208-111.
Messinger, Richard C., to Cincinnati Milling Machine Co., The. Pneumatic support for flexible table top. 3,451,300, 6-24-69, Cl. 83-648.
Messinger, Robert L., to Eaton Yale & Towne Inc. Roll clamp for lift truck and method. 3,420,565, 1-7-69, Cl. 294-86.
Messinger, Werner, to Braun Aktiengesellschaft. Flexible screen foil. 3,468,025, 9-23-69, Cl. 30-346.51
Messinger, Werner; and Wich, Robert, to Braun Aktiengesellschaft. Mounting of dry shaver shearing foil. 3,440,725, 4-29-69, Cl. 30-43.91
Messinger, Werner: *See—*
Wich, Robert; and Messinger, Werner,3,440,724.
Messmer, Edwin E., to Roto American Corporation. Labeling machine. 3,428,509, 2-18-69, Cl. 156-361.
Messner, Dieter: *See—*
Kramer, Heinz; and Messner, Dieter,3,443,224.
Messores, Arthur S.: *See—*
Bloch, Alfred; and Messores, Arthur S.,3,424,164.
Messwarb, Gunter: *See—*
Kramer, Hans Bernhard Adolf; Messwarb, Gunter; and Denk, Walter,3,420,805.
Steppan, Hartmut; Erdmann, Fritz; Messwarb, Gunter; and Luders, Walter,3,484,239.
Mesta Machine Company: *See—*
Lemper, Herbert, 3,442,145.
Lemper, Herbert, 3,442,322.
Lemper, Herbert; and Snee, William H., Jr., 3,453,914.
Lowy, Paul M., 3,422,649.
Petros, Andrew J., Jr., 3,475,940.
Senn, Charles M.; and Cecil, Owen S., Jr., 3,430,786.
Senn, Charles M.; and Cecil, Owen S., Jr., 3,465,118.
Senn, Charles M.; and Cecil, Owen S., Jr., 3,469,064.
Stover, William L.; and Petros, Andrew J., 3,451,244.
Mester, Jack W.: *See—*
Meersand, Kenneth, 3,483,836.
Mestre, Luis. Suction sheet feeder. 3,458,042, 7-29-69, Cl. 209-88.
Mestwerdt, Hermann R.: *See—*
Rambauske, Werner; and Mestwerdt, Hermann R.,3,460,054.
Mesur-Matic Electronics Corporation: *See—*
Newell, Harold R., 3,444,447.
Newell, Harold R., 3,452,263.
Newell, Harold R., 3,456,139.
Newell, Harold R., 3,474,272.
Newell, Harold R., 3,475,667.
Meszaros, Albert. Roast lifter. 3,447,827, 6-3-69, Cl. 294-3.
Meszaros, Albert. Dustpan. 3,453,676, 7-8-69, Cl. 15-104.8
Met, Viktor, to Electro Optics Associates. Aligning and mounting mechanism device. 3,478,608, 11-18-69, Cl. 74-89.15
Metaalbedrijf Rademakers N.V.: *See—*
Olderaan, Wilhelmus Franciscus Theodorus Carolus, 3,442,181.
Metabowerke KG., Closs, Rauch & Schnizler: *See—*
Bronnert, Helmut, 3,463,246.
Metabowerke KG, Rauch & Schnizler: *See—*
Schnizler, Karl Albrecht; and Kühl, Hans, 3,483,661.
Metacon AG: *See—*
Tinnes, Bernhard, 3,459,346.
Metais, Bernard, to Societe Nationale des Petroles d'Aquitaine. Process and apparatus for the mass polymerisation of aryl vinyl compounds. 3,451,986, 6-24-69, Cl. 260-93.5
Metal Bellows Corporation: *See—*
Andrews, Arthur J.; and Zierak, Stephen J., 3,473,347.
Metal Box Company Limited, The: *See—*
Bell, George; and O'Connell, Anthony James, 3,476,666.
Cook, John Edward, 3,425,590.
Howell, Bryan Gordon, 3,476,240.
Rogers, John Anthony, 3,471,995.
Tebbutt, Charles Norman, 3,434,627.
Wyard, Walter Harvie, 3,434,265.
Metal Closures Limited: *See—*
Hadley, William Henry; and Wilton, Ronald William, 3,455,479.
Metal Container Limited: *See—*
Rasmussen, Ole-Bendt, 3,454,455.
Metal Containers Limited: *See—*
Ragettli, Christian, 3,486,655.
Metal Dynamics Corporation: *See—*
Rachman, Isadore B., 3,455,465.
Rachman, Isadore B., 3,476,404.
Rachman, Isadore B., 3,480,950.
Metal Flo Corporation of Ohio: *See—*
Brown, Charles J.; and Baumgarten, Morton Z., 3,470,725.
Metal Hydrides Incorporated: *See—*
Del Giudice, Frank P., 3,453,089.
Snover, John A., 3,423,192.
Metal Improvement Company: *See—*
Burney, Harold W.; Bickel, Paul E.; and Koenecke, William J., 3,421,618.
Burney, Harold W.; Bissinger, Walter J.; and Landecker, Fred K., 3,423,976.
Burney, Harold W., 3,426,563.
Burney, Harold W., 3,485,073.
Murray, Robert R.; and Smith, Glenn D., 3,482,423.
Metal Wire Recovery Corporation: *See—*
Levin, Allan F., 3,480,477.
Metal-Tech Inc.: *See—*
Bryand, Edward T., 3,480,148.
Metalastik Limited: *See—*
Hirst, Archie John, 3,475,015.
Reed, Alun John, 3,478,160.
Metalex Corporation: *See—*
Stone, Mark M., 3,439,667.
Metalines Incorporated: *See—*
Cheatwood, Lowell K., 3,474,589.
Schmitt, Dale A.; and Cheatwood, Lowell K., 3,448,552.
Metalite, Inc.: *See—*
Kimball, Peter G., 3,440,650.
Metalitho Limited: *See—*
Medley, Joseph, 3,456,837.
Metall-Invent S.A.: *See—*
Kreidler, Alfred, 3,477,049.
Metallgesellschaft Aktiengesellschaft: *See—*
Baron, Gerhard; Ehrhardt, Erwin; and Bechthold, Horst, 3,436,198.
Dunkel, Eckhard; and Thiele, Wolfgang, 3,466,170.
Eisenlohr, Karl Heinz; and Wirth, Hans, 3,433,849.
Gross, Hans-Werner; Schwedler, Gottfried; and Muller, Eckart, 3,437,575.
Gross, Hans Werner; Ehrhardt, Erwin; and Baron, Gerhard, 3,468,641.
Haselmayer, Karl, 3,425,189.
Heitmann, Guenter, 3,425,824.
Heitmann, Gunter, 3,469,970.
Heitmann, Gunter, 3,486,883.
Hochgesand, Gerhard L., 3,453,835.
Koch, Walter; and Zugel, Ottmar, 3,462,262.
Longley, Harry F.; Bedford-Jones, Peter E.; and Battle, Thomas, 3,443,930.
Luge, Karlheinz E.; and Braun, Wolfgang, 3,477,203.
Mehner, Wolf, 3,433,599.
Muller-Wartenberg, Heinz, 3,475,133.
Nonnenmacher, Friedrich Karl; and Schafer, Rudolf, 3,457,989.
Rausch, Hans; Heitmann, Gunter; and Thumm, Wilhelm, 3,428,445.
Reh, Lothar; Maurer, Roland; Pierson, Walter; and Peinemann, Bodo, 3,449,062.
Scheiber, Werner; Walter, Peter; Lehmann, Rolf; and Kowarik, Klaus, 3,476,668.
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H. H., 3,472,649.
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H.H., 3,472,650.
Steuernagel, Walter, 3,435,594.
Thikotter, Klaus Hermann, 3,479,017.
Voeste, Theodor; and Schmidt, Hans-Joachim, 3,444,221.
Wendel, Gunter; and Enders, Fritz, 3,483,674.
Wiemer, Jean, 3,483,671.
Metallschlauchfabrik A.G.: *See—*
Leyer, Albert, 3,434,303.
Metallurgical Exoproducts Corporation: *See—*
Koch, William Henry; and Rocher, George, 3,421,731.
Lojas, Matthew Stanley, 3,436,209.
Metallurgical Processes Limited: *See—*
Richards, John Harvey; and Castle, John Frederick, 3,462,264.
Metallwerk Plansee Aktiengesellschaft: *See—*
Rinesch, Rudolf; and Strohmeier, Gerolf, 3,473,968.
Metalsky, William J.: *See—*
Cyrway, Edward N., Jr.; and Metalsky, William J.,3,476,862.
Metalstik Limited: *See—*
Hirst, Archie John, 3,433,493.
Metalurgitschen Zavod 'Lenin':*See—*
Valtchev, Alexander J.; and Valtcheva, Temenushka Nikolova, 3,476,586.
Metaverpa N.V.: *See—*
van de Bilt, Pieter Arnoldus, 3,486,293.
Metcalf, Eric: *See—*
Bailey, Christopher E. G.; and Metcalf, Eric,3,439,272.
Metcalf, Eric; and Dorey, Howard Anthony, to Solartron Electronic Group Limited, The. Digital voltmeters including amplifier with capacitive feedback. 3,439,271, 4-15-69, Cl. 324-9.

Metcalf, Gordon L.: *See—*
Hierholzer, Frank J., Jr.; Metcalf, Gordon L.; and Karcher, Edmund A.,3,448,299.
Metcalf, Stanley: *See—*
Preiser, Ralph H.; Goodwin, Clarence J.; Emerson, Frank W.; and Metcalf, Stanley,3,460,388.
Metcalf, William S., to Hewlett-Packard Company. Electromagnetic wave energy coupling apparatus comprising an anistropic dielectric slab. 3,480,884, 11-25-69, Cl. 333-6.
Metcalfe Brothers, Inc.: *See—*
Metcalfe, Thomas O., 3,458,381.
Metcalfe, Kenneth A.; Gillespie, Frank C.; and Smith, Ian E., to Australia, Commonwealth of, care of the Secretary, Department of Supply. Control of xerographic images by charging the photoconductor with only an outer band of a corona discharge. 3,476,935, 11-4-69, Cl. 250-49.5
Metcalfe, Lincoln Douglas: *See—*
Pelka, John R.; and Metcalfe, Lincoln Douglas,3,449,246.
Metcalfe, Lincoln Douglas; and Pelka, John Richard, to Armour Industrial Chemical Company, mesne. Process for separating iron from aluminum. 3,473,919, 10-21-69, Cl. 75-103.
Metcalfe, Peter Newsome, to Sutcliffe, Richard, Engineering Systems Limited. Conveyor support structures. 3,459,291, 8-5-69, Cl. 198-192.
Metcalfe, Richard T.; and Levesque, Joseph P. R., to American Optical Corporation. Process for decorating aluminum. 3,423,251, 1-21-69, Cl. 148-6.1
Metcalfe, Thomas O., to Metcalfe Brothers, Inc. Mattress panel cutting and labeling machine. 3,458,381, 7-29-69, Cl. 156-510.
Metco, Inc.: *See—*
Charlop, Herbert, 3,443,754.
Dittrich, Ferdinand J.; and Shepard, Arthur P., 3,436,248.
Ingham, Herbert S., Jr.; and Ingham, Herbert S., Sr., 3,455,508.
Rotolico, Anthony J., 3,455,510.
Wilson, Charles Kenneth, 3,482,782.
Metelnick, John W., to Garcy Corporation. Panel wall structure. 3,429,090, 2-25-69, Cl. 52-481.
Meteor AG: *See—*
Angst, Walter, 3,473,398.
Meteor Research Limited: *See—*
Tabor, Paul C., 3,424,492.
Tabor, Paul C., 3,441,303.
Tabor, Paul C., 3,468,579.
Meteor-Siegen Apparatebau Paul Schmeck G.m.b.H.: *See—*
Enke, Gerhard; and Isermann, Heinz, 3,437,336.
Meterimpex Magyar Muszeripari Kulkereskedelmi Vallalat: *See—*
Asztalos, Gyorgy, 3,436,652.
Metesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 4-Aryl-3,1-benzoxazine-2-thione. 3,467,656, 9-16-69, Cl. 260-244.
Metevia, Edwin E., to Bendix Corporation, The. Borehole measuring device. 3,436,836, 4-8-69, Cl. 33-178.
Metevia, Virgil L., to Dow Corning Corporation. Method of rendering translucent silicone rubber articles transparent. 3,485,662, 12-23-69, Cl. 117-138.8
Metevia, Virgil L.; and Polmanteer, Keith E., to Dow Corning Corporation. Heat-curable, heat stable organosilicon elastomeric compositions of high strength and low elongation. 3,453,228, 7-1-69, Cl. 260-37.
Meth, Harry, to Rainbow Crafts, Inc. Coloring set. 3,426,888, 2-11-69, Cl. 206-1.8
Meth, Harry, to Rainbow Crafts, Inc. Apparatus for forming artistic patterns. 3,453,991, 7-8-69, Cl. 118-102.
Meth, Harry, to Rainbow Crafts, Inc. Spill-proof container. 3,464,599, 9-2-69, Cl. 222-589.
Meth, Max. Method of tempering glass. 3,451,797, 6-24-69, Cl. 65-116.
Metheny, Larry J.; and Mihelick, Joseph R., to Reliance Electric and Engineering Company, The. Lubrication pump for gear motor. 3,482,651, 12-9-69, Cl. 184-6.
Methfessel, Siegfried J.: *See—*
Holtzberg, Frederic; and Methfessel, Siegfried J.,3,427,134.
Louis, Helmut P.; and Methfessel, Siegfried,3,475,738.
Methode Electronics, Inc.: *See—*
Schroeder, Duane A.; and Gulick, Graham L., 3,484,929.
Methven, Norbert E.; and Richardson, Edwin A., to Shell Oil Company. Production of fluids by consolidation of earth fractures. 3,428,122, 2-18-69, Cl. 166-295.
Metivier, Jean: *See—*
Boesch, Roger; and Metivier, Jean,3,471,570.
Metivier, Jean; and Sauli, Michel, to Rhone-Poulenc S.A. Certain 3-substituted-5-thiophosphorylmethyl-1,2, 4-oxadiazoles. 3,432,519, 3-11-69, Cl. 260-307.
Metivier, Joseph Emile. Bayonet closure for container. 3,433,385, 3-18-69, Cl. 220-40.
Metivier, Robert. Cycling system for respirator. 3,446,207, 5-27-69, Cl. 128-145.8
Metke, Arthur. Gopher poison dispenser or the like. 3,481,511, 12-2-69, Cl. 222-339.
Metlay, Max: *See—*
Gaynor, Joseph; Sewell, Gordon J.; and Metlay, Max,3,434,835.
Metlay, Max; and Schaefer, Donald L., to General Electric Company. Method of plating gold films onto oxide-free silicon substrates. 3,482,974, 12-9-69, Cl. 96-35.
Metler, Alvin V., to Mobil Oil Corporation. Aqueous fluid flooding method for recovering oil. 3,428,120, 2-18-69, Cl. 166-250.
Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche, Inc. Process for preparing benzodiazepines. 3,438,972, 4-15-69, Cl. 260-239.
Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche, Inc. Process for preparing 4,1-benzothiazepines. 3,450,696, 6-17-69, Cl. 260-239.3
Meto-Gesellschaft Oscar Kind K.G.: *See—*
Voigt, Wilhelm, 3,427,214.
Metrailer, William J.: *See—*
Blackwell, Noah E., III; and Metrailer, William J.,3,446,728.
Metrawatt Aktiengesellschaft: *See—*
Baumgaertner, Wilhelm; Zwicker, Ludwig; and Szyszka, Manfred, 3,439,647.
Metrimpex Magyar Muszeripari Kulkereskedelmi Vallalat: *See—*
Pungor, Erno; Havas, Jeno; Toth, Klara; and Madarasz, Geza, 3,446,726.
Takatsy, Gyula, 3,466,153.
Metro Hospital Supply Co., Inc.: *See—*
Marson, George J.; and Smith, William H., 3,483,880.
Metro Mfg., Inc.: *See—*
Malick, Dell M., 3,454,199.
Metropolitan Petrochemicals Co., Inc.: *See—*
Garabello, Romano, 3,425,435.
Metropolitan Petroleum Petrochemicals Co., Inc.: *See—*
Garabello, Romano, 3,422,834.
Reiser, Sidney J.; and Reiser, Larry, 3,441,042.
Metropolitan Waste Conversion Corporation: *See—*
Brown, Victor, 3,451,799.
Mets, Franklin C.; and Robbins, Neal R., to Xerox Corporation. Fan fold stacking apparatus. 3,460,825, 8-12-69, Cl. 270-61.
Metschnabl, Andreas; and Burkhardt, Gottfried, to Diehl. Four-species calculating machine. 3,432,094, 3-11-69, Cl. 235-63.
Mettalia, Joseph B., Jr.; and Specht, Edward H., to Rohm & Haas Company. Process for the producing esters. 3,476,797, 11-4-69, Cl. 260-484.
Mette, Herbert L., to United States of America, Army. Filter circuit. 3,435,259, 3-25-69, Cl. 307-309.
Mette, Herbert L., to United States of America, Army. Solid-state magnetoelectric modulator and switch. 3,435,379, 3-25-69, Cl. 332-52.
Mettert, Paul M.: *See—*
Currie, William E.; and Mettert, Paul M.,3,465,257.
Mettler, Albert J., Jr., to Libby, McNeill & Libby. Packing apparatus. 3,456,418, 7-22-69, Cl. 53-26.
Mettler Instrumente AG: *See—*
Hager, Jurg, 3,479,859.
Meier, Johann, 3,463,258.
Meier, Johann, 3,472,327.
Meier, Johann, 3,483,935.
Scheidegger, Rene, 3,472,726.
Mettler, Klaus: *See—*
Winstel, Gunter; Mettler, Klaus; Zschauer, Karl-Heinz; and Pelka, Horst,3,478,215.
Mettler, Wayne: *See—*
Carlo, Louis David, 3,480,999.
Metysova, Jirina: *See—*
Protiva, Miroslav; Rajsner, Miroslav; and Metysova, Jirina,3,487,085.
Metz, Bruce E.; Paul, James T., Jr.; and Le Noir, James A. Roving impregnating apparatus for use in making filament wound structures. 3,473,511, 10-21-69, Cl. 118-50.
Metz, Christopher. Bowling game. 3,458,190, 7-29-69, Cl. 273-41.
Metz, Edmund N.: *See—*
Stockdale, George F.; and Metz, Edmund N.,3,472,413.
Metz, Edward A., to Nypel of Delaware, Inc., mesne. Plasticized nylon composition and process for making the same. 3,475,368, 10-28-69, Cl. 260-33.4
Metz, Jack L., to Teletype Corporation. Method of manufacturing a multi-track magnetic head. 3,460,244, 8-12-69, Cl. 29-603.
Metz, Joseph R., to Norco, Inc. Aircraft door attaching and release device. 3,430,382, 3-4-69, Cl. 49-37.
Metz, Joseph R., to Norco, Inc. Releasable fastener. 3,442,541, 5-6-69, Cl. 287-119.
Metz, Joseph R., to Norco, Inc. Push-to-release coupling. 3,452,404, 7-1-69, Cl. 24-230.
Metz, Joseph R., to Norco, Inc. Quick release pin. 3,474,506, 10-28-69, Cl. 24-211.
Metz, Louis C., Jr.: *See—*
Gagliardi, Richard P.; and Metz, Louis C., Jr.,3,424,925.
Metz, Pierre, to CSF-Compagnie Generale de Telegraphie Sans Fil. Electromechanical device for controlling the direction of radiation of a reflector. 3,436,628, 4-1-69, Cl. 318-18.

Metz, Ralph J.: *See—*
McGee, Roger J.; and Metz, Ralph J.,3,474,342.
Metzeler AG: *See—*
Roy, Hrishikesh Chandra, 3,480,508.
Metzgar, Don P.: *See—*
Woodhour, Allen F.; and Metzgar, Don P.,3,485,721.
Metzgar, Harrison B., III: *See—*
Plefka, Henry J.; and Metzgar, Harrison B., III,3,486,642.
Metzger, Albert E.: *See—*
Das Gupta, Kamalaksha; Schnopper, Herbert W.; and Metzger, Albert E.,3,440,419.
Metzger, Benjamin A.; and Miller, Harry E., to Carrier Corporation. Method and apparatus for brazing. 3,426,953, 2-11-69, Cl. 228-46.
Metzger, Courtney A.; Hearld, Albert B.; McMullen, Bobby G.; and Reynolds, Bobby J., to United States of America, Air Force. Vacuum distillation-vapor filtered water recovery apparatus. 3,483,091, 12-9-69, Cl. 202-182.
Metzger, David P.: *See—*
Zielinski, Robert J.; and Metzger, David P.,3,477,797.
Metzger, Eric E., to Bowles Engineering Corporation. Turbulence amplifier system. 3,429,322, 2-25-69, Cl. 137-81.5
Metzger, Eric E., to Bowles Engineering Corporation. Surface flaw detector. 3,430,055, 2-25-69, Cl. 250-219.
Metzger, Eric E., to Bowles Engineering Corporation. Distributed amplifier. 3,468,328, 9-23-69, Cl. 137-81.5
Metzger, Grant W., to Flintkote Company, The. Heat exchange structure for rotary kilns. 3,430,936, 3-4-69, Cl. 263-33.
Metzger, Horst: *See—*
Beckmann, Wilhelm; Kengelbach, Werner Ludwig; Metzger, Horst; and Pape, Martin,3,476,669.
Koenig, Horst; and Metzger, Horst,3,442,901.
Metzger, Karl; Porret, Daniel; and Batzer, Hans, to Ciba Limited. Hydroxylated diepoxides of ether acetals of 1,1- bis(hydroxymethyl)cyclohexane. 3,423,429, 1-21-69, Cl. 260-340.7
Metzger, Lenard M., to Eastman Kodak Company. Automatic exposure control. 3,427,941, 2-18-69, Cl. 95-10.
Metzger, Louis G., to Potter Instrument Company, Inc. Cartridge for tape loop random access memory. 3,455,492, 7-15-69, Cl. 226-89.
Metzger, Louis G.; and Poumakis, Eleuthere, to Potter Instrument Company, Inc. Flaw testing system for endless magnetic storage belts. 3,465,241, 9-2-69, Cl. 324-37.
Metzger, Matt F., to General Electric Company. Clothes dryer with selective clutch for drum rotation. 3,429,056, 2-25-69, Cl. 34-133.
Metzger, Robert W., Jr., to General Motors Corporation. Ultrasonic welder for thin wires. 3,459,355, 8-5-69, Cl. 228-1.
Metzger, Romain, to Anglers' Manufacturing Corporation. Sinkable fishing float. 3,456,379, 7-22-69, Cl. 43-43.14
Metzger, Sidney H., Jr., to Jefferson Chemical Company, Inc. Vinylene carbonate production. 3,457,279, 7-22-69, Cl. 260-340.2
Metzger, Sidney H., Jr., to Mobay Chemical Company. Tetrahydro-2-imino-1,3-oxazines. 3,479,351, 11-18-69, Cl. 260-246.
Metzger, Sidney H., Jr.: *See—*
Cross, James Martin; Metzger, Sidney H., Jr.; and Campbell, Clyde D.,3,454,505.
Cross, James M.; and Metzger, Sidney H.,3,471,542.
Cross, James M.; Campbell, Clyde D.; and Metzger, Sidney H.,3,450,759.
Metzger, Wilford E., Jr., to Birdsboro Corporation. Method for making rolling mill handling mechanism cams. 3,474,525, 10-28-69, Cl. 29-558.
Metzger, William J., to Midland-Ross Corporation. Lateral pull-type knuckle coupler. 3,450,273, 6-17-69, Cl. 213-162.
Metzger, William J.; and De Penti, Kenneth L., to Midland-Ross Corporation. Railway car coupler anti-creep mechanism. 3,433,369, 3-18-69, Cl. 213-148.
Metzger, William J.; and De Penti, Kenneth L., to Midland-Ross Corporation. Railway-car coupler centering device. 3,438,512, 4-15-69, Cl. 213-20.
Metzler, Charles Lewis; Holzwarth, Henry Albert; and Wark, John Duncan, to American Can Company. Thermoformed plastic cup with reinforced side wall. 3,441,192, 4-29-69, Cl. 229-1.5
Metzler, Clair G.: *See—*
Embree, Milton L.; Hamilton, Billy H.; and Metzler, Clair G.,3,483,464.
Metzler, Fred I.Prevention of popcorn polymer in the manufacture of rubber latex. 3,432,563, 3-11-69, Cl. 260-666.5
Metzler, Ronald H.: *See—*
Solipasso, Victor M., 3,432,182.
Meubelindustrie 'Thereca' N.V.:*See—*
Ramakers, Theodoor Hubertus, 3,469,869.
Meuleman, Johannes, to U.S. Philips Corporation, mesne. Radiation detectors having a semiconductor body. 3,457,470, 7-22-69, Cl. 317-234.
Meulemans, Darrell R.: *See—*
Bilous, Orest; Meulemans, Darrell R.; Pecoraro, Raymond P.; and Selby, Michael C.,3,473,093.
Meuly, Walter C.; and Gradeff, Peter S., to Rhodia Inc. Novel ionone. 3,480,677, 11-25-69, Cl. 260-587.
Meunier, Gaston: *See—*
Biarnais, Paul; Alheritiere, Louis; Gobron, Georges; Mercier, Jules; Meunier, Gaston; and Lemaistre, Rene,3,483,151.
Meunier, Henri Gilbert, to Centre National de Recherches Metallurgiques. Process for continuously measuring the quality of an agglomerate. 3,448,375, 6-3-69, Cl. 324-34.
Meurer, Siegfried; Querfurt, Horst; and Herzog, Walter, to Maschinenfabrik Augsburg-Nurnberg A.G. Spark ignition for an internal combustion engine with fuel injection. 3,420,216, 1-7-69, Cl. 123-32.
Meurop Societe Anonyme:*See—*
Pottiez, Frantz Louis Charles, 3,435,575.
Meusel, Kurt H. Dolly holder. 3,443,730, 5-13-69, Cl. 224-42.03
Mevers, Gus E.; and Pollock, David B., to North American Rockwell Corporation. Interferometic optical modulator. 3,420,600, 1-7-69, Cl. 350-150.
Mevers, Gus E.; and Pollock, David B., to North American Rockwell Corporation. Light control method and apparatus. 3,473,030, 10-14-69, Cl. 250-199.
Mey, Hansjuerg; Wirth, Robert; and Zeindler, Reinhard. Exposure control system. 3,482,916, 12-9-69, Cl. 355-38.
Meyer, Alvin H. Display sign comprised of foldable cardboard members. 3,470,641, 10-7-69, Cl. 40-145.
Meyer, Arnold F., to Heil Co., The. Grinding mills. 3,442,458, 5-6-69, Cl. 241-82.
Meyer, August K.; and McFall, Robert B., to Eastman Kodak Company. Fibrous product and method of manufacturing same. 3,461,662, 8-19-69, Cl. 57-154.
Meyer, Barthold F.: *See—*
Johnstone, Theodore H.; and Meyer, Barthold F.,3,483,337.
Meyer, Burton C.: *See—*
Barlow, Gordon A.; Meyer, Burton C.; and Glass, Marvin I.,3,460,830.
Meyer, Burton C.; and Glass, Marvin I., to Glass, Marvin, & Associates. Movable joint for use in figure toys. 3,452,472, 7-1-69, Cl. 49-119.
Meyer, Burton C.; and Glass, Marvin I., to Glass, Marvin & Associates. Aerial toy. 3,479,764, 11-25-69, Cl. 46-74.
Giraud, Denise C.; Meyer, Burton C.; and Glass, Marvin I.,3,462,154.
Glass, Marvin I.; and Meyer, Burton C.,3,471,149.
Glass, Marvin I.; and Meyer, Burton C.,3,472,260.
Stan, Henry; Barlow, Gordon A.; and Meyer, Burton C.,3,464,694.
Meyer, Charles B., to RCA Corporation. Automatic lamp changing apparatus. 3,471,745, 10-7-69, Cl. 315-88.
Meyer, Charles F., to Square D Company. Resistance welding control system. 3,422,243, 1-14-69, Cl. 219-110.
Meyer, Charles F.; and Wieczorek, Robert A., to Square D Company. Intrinsically safe electrical control system. 3,445,679, 5-20-69, Cl. 307-136.
Meyer, Charles J.: *See—*
Butler, Arthur W.; Purdy, Francis W.; and Meyer, Charles J.,3,462,087.
Meyer, Christian, to Hofler, Leonhard. Toy blowing instrument. 3,481,069, 12-2-69, Cl. 46-44.
Meyer, Daniel A.: *See—*
Daly, James H.; Sommer, John G.; and Meyer, Daniel A.,3,421,970.
Meyer, Delbert H., to Standard Oil Company (Indiana). Purifying aromatic polycarboxylic acid. 3,420,879, 1-7-69, Cl. 260-525.
Meyer, Delbert H.: *See—*
Stein, Norman; Meyer, Delbert H.; Knobloch, James O.; and Liao, Hsiang Peng,3,484,458.
Meyer, Dietrich, to U.S. Philips Corporation, mesne. Circuit arrangement for the lineal control of the frequency or period of a sine oscillator by means of an electric quality. 3,477,040, 11-4-69, Cl. 331-141.
Meyer, Dietrich, to U.S. Philips Corporation, mesne. Arrangement for touch-free measurement of displacements. 3,479,582, 11-18-69, Cl. 324-34.
Meyer, Donald J.: *See—*
Easley, Ralph S.; and Meyer, Donald J.,3,467,805.
Meyer, Donald K.; and Coles, Robert F., to Minnesota Mining and Manufacturing Company. Developer compositions and their use in electrolytic electrophotography. 3,436,321, 4-1-69, Cl. 204-18.
Meyer, Donald K.; and Tulagin, Vsevolod, to Minnesota Mining and Manufacturing Company. Process for preparing a masked color separation positive utilizing an electrophotographic photo- conductive copysheet. 3,420,662, 1-7-69, Cl. 96-30.
Meyer, Edgar; and Scheffels, Wilhelm, to Steigerwald Strahltechnik GmbH. Replaceable cathode for electron beam generating system. 3,478,244, 11-11-69, Cl. 313-237.
Meyer, Edgar: *See—*
Steigerwald, Karl-Heinz; and Meyer, Edgar,3,474,219.
Meyer, Edward T., to Meyer Products, Inc. Blade for snow plows and similar devices. 3,465,456, 9-9-69, Cl. 37-50.
Meyer, Edwin F.; and Wagner, Robert E., Jr., to United States of America, Army. Liquid dilatometer. 3,478,575, 11-18-69, Cl. 73-32.

Meyer, Edwin L. Method of making a broaching tool. 3,461,748, 8-19-69, Cl. 76-101.
Meyer, Elwyn A.; and Brownfield, Charles L., to Emerson Electric Co. Storage of linked ammunition for cartridge feed systems. 3,427,923, 2-18-69, Cl. 89-33.
Meyer, Emilio G., to Mine Safety Appliances Italiana S.p.A. Measuring circuit for a paramagnetic gas analyzer. 3,435,662, 4-1-69, Cl. 73-27.
Meyer, Engelbert A., to Warren Fastener Corporation. Structural assembly and clip. 3,438,664, 4-15-69, Cl. 287-189.36
Meyer, Engelbert A., to Warren Fastener Corporation. Molding assembly and adaptor. 3,445,979, 5-27-69, Cl. 52-718.
Meyer, Engelbert A., to Warren Fastener Corporation. Brake line clip. 3,455,528, 7-15-69, Cl. 248-73.
Meyer, Engelbert A., to Warren Fastener Corporation. Drive clips. 3,456,550, 7-22-69, Cl. 85-36.
Meyer, Engelbert A., to Warren Fastener Corporation. Adjustable clamp. 3,471,109, 10-7-69, Cl. 248-68.
Meyer, Engelbert A., to Warren Fastener Corporation. Structural assembly and clip. 3,473,283, 10-21-69, Cl. 52-718.
Meyer, Engelbert A., to Warren Fastener Corporation. Structural assembly and deformable clip. 3,473,284, 10-21-69, Cl. 52-718.
Meyer, Engelbert A., to Warren Fastener Corporation. Bracket assembly. 3,473,773, 10-21-69, Cl. 248-225.
Meyer, Englebert A., to Warren Fastener Corporation. Side-loaded wheel opening clip. 3,481,096, 12-2-69, Cl. 52-718.
Meyer, Ernst: *See*—
Lenz, Jurgen; and Meyer, Ernst,3,437,641.
Meyer, Ernst. Induction pump. 3,459,132, 8-5-69, Cl. 103-53.
Meyer, Ernst; and Lenz, Jurgen, to Vereinigte Glanzstoff-Fabriken AG. Tone-on-tone acid dyeing blended textile of nylon and nylons with small amounts of phthalic acid sulfonic acid, phosphoric or phosphonic acid ester condensed therein and the textile so produced. 3,475,111, 10-28-69, Cl. 8-21.
Meyer, Eugen; and Singer, Eduard, to Mancar-Trust. Apparatus for producing fiber-reinforced plastics sections, particularly longitudinally tapering sections, with the aid of a mandrel. 3,455,765, 7-15-69, Cl. 156-431.
Meyer, Frank L.; Reiss, Lewis Philip; and Titus, Paul E., to Shell Oil Company. Process for transporting sulfur through pipelines. 3,443,837, 5-13-69, Cl. 302-14.
Meyer, Franklin, Jr., to Taft-Peirce Manufacturing Company, The. Fluid gage apparatus of the rotameter type. 3,443,417, 5-13-69, Cl. 73-37.9
Meyer, Franz Josef, to Goetzewerke Friedrich Goetze A.G. Measuring arrangement. 3,432,931, 3-18-69, Cl. 33-169.
Meyer, Geo. J., Manufacturing Co.: *See*—
Barker, Theodore L., 3,421,285.
Copping, Bruce G.; and Friendship, Kenneth F., 3,443,608.
McGill, Robert W.; and Hardee, Walter D., 3,431,831.
McGill, Robert W., 3,441,120.
Meyer, George Leroy, to American Can Company. Tamperproof reclosable carton with interleaving flaps. 3,484,036, 12-16-69, Cl. 229-37.
Meyer, Gerhard: *See*—
Kroes, Gerardus Henricus; Siggel, Erhard; Schopf, Albert; and Meyer, Gerhard,3,429,849.
Schopf, Albert; Siggel, Erhard; and Meyer, Gerhard,3,420,888.
Meyer, Gilbert F., to Machinery and Welder Manufacturing Corporation. Welding wire feeding mechanism for continuous welding apparatus. 3,430,832, 3-4-69, Cl. 226-174.
Meyer, Gilbert F., to Machinery and Welder Corporation. Electric welding assembly. 3,440,394, 4-22-69, Cl. 219-130.
Meyer, Gilbert F., to Machinery and Welder Manufacturing Corporation. Wire threader in an electric welding apparatus. 3,463,374, 8-26-69, Cl. 226-91.
Meyer, Hans: *See*—
Meyer, Hans; and Hilfiker, Paul, 3,486,235.
Meyer, Hans Jachim Gustav: *See*—
Ahsmann, Gerardus Josephus Maric; Meyer, Hans Jachim Gustav; and Van der Laarse, Jan Willem,3,439,209.
Blanding, Leonard C.; Meyer, Hans J.; and Liebler, Kenneth A.,3,433,538.
Meyer, Hans Joachim Gustav: *See*—
Ahsmann, Gerardus Josephus Maria; Lothaller, Wolfgang Erich; Meyer, Hans Joachim Gustav; and van der Laarse, Jan Willem,3,473,070.
Meyer, Hans R., to Grace, W. R., & Co. Aromatic polymers. 3,427,261, 2-11-69, Cl. 260-2.
Meyer, Hans. Indicating means. 3,474,958, 10-28-69, Cl. 235-103.
Meyer, Hans; and Hilfiker, Paul, to Meyer, Hans. Internal measuring instrument. 3,486,235, 12-30-69, Cl. 33-143.
Meyer, Harry W., to Industrial Development Corporation, The, mesne. Process of manufacturing hair rollers. 3,434,193, 3-25-69, Cl. 29-419.
Meyer, Hartmut, to Siemens Aktiengesellschaft. Method of treating insulation of electric machines. 3,474,527, 10-28-69, Cl. 29-596.
Meyer, Heinrich F.: *See*—
Campbell, Kenneth K., Jr.; and Meyer, Heinrich F.,3,484,937.
Meyer, Henry F., to Monarch Machine Tool Company, The. Tool holder. 3,466,971, 9-16-69, Cl. 90-11.
Meyer, Herbert J.; Daugherty, Charles A., Jr.; and Novy, John R., to Southern Illinois University Foundation. Image display apparatus and methods. 3,480,738, 11-25-69, Cl. 179-100.2
Meyer, Herbert: *See*—
Griffin, Gordon R.; and Meyer, Herbert,3,446,561.
Meyer, Hermann; Markert, Ferdinand; and Schmidt, Emil, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Regenerating naphthalene mixtures containing carbon black with simultaneous recovery of globular petroleum coke. 3,458,588, 7-29-69, Cl. 260-674.
Meyer, Howard E., to Electro-Therm, Inc. Easily removable heating unit insert. 3,439,892, 4-22-69, Cl. 248-200.
Meyer, Howard Eugene: *See*—
Meng, Eberhard; and Meyer, Howard Eugene,3,443,064.
Meyer, Jack R., to Honeywell Inc. Analog to digital converters. 3,453,537, 7-1-69, Cl. 324-68.
Meyer-Jagenberg, Gunther, to Jagenberg-Werke AG. Method of and apparatus for inserting marking strips into stacks of sheets. 3,466,983, 9-16-69, Cl. 93-93.
Meyer, James A., to Outboard Marine Corporation. Swing arm starter. 3,449,964, 6-17-69, Cl. 74-8.
Meyer, James G., to TRW Inc. Band retainer for satellite separation system. 3,420,470, 1-7-69, Cl. 244-1.
Meyer, Jerry R. Vehicle loading method and apparatus. 3,485,401, 12-23-69, Cl. 214-512.
Meyer, Joachim: *See*—
Bremer, Ferdinand; and Meyer, Joachim,3,443,631.
Meyer, John A.: *See*—
Haumesser, Robert L.; and Meyer, John A.,3,454,743.
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J., to Schenectady Chemicals, Inc. Electrical conductor coated with polyester- polyimide inner layer and polyester outer layer. 3,425,866, 2-4-69, Cl. 117-218.
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J., to Schenectady Chemicals, Inc. Polyester-polyimide wire enamel. 3,426,098, 2-4-69, Cl. 260-841.
Meyer, John F.: *See*—
Jordan, Manuel A.; Meyer, John F.; and Zalewiski, Edmund J.,3,480,589.
Meyer, John H.: *See*—
Thompson, Robert J.; Boaz, Premakaran T.; Cholger, Herbert W.; Gray, Dorian R.; and Meyer, John H.,3,440,030.
Meyer, John J., to Nooter Corporation. Method of joining clad material. 3,443,306, 5-13-69, Cl. 29-471.7
Meyer, John J., to Nooter Corporation. Joint for joining clad materials. 3,464,802, 9-2-69, Cl. 29-183.5
Meyer, Larry E.; and Walker, Richard D., to Procter & Gamble Company, The. Process for preparing a crystalline uniformly sized granular detergent composition. 3,454,499, 7-8-69, Cl. 252-109.
Meyer, Lawrence L., to Texas Instruments, Incorporated. Bonding machine. 3,440,389, 4-22-69, Cl. 219-85.
Meyer, Lawrence L., to General Electric Company. Sine wave to square waveshaping circuit. 3,443,126, 5-6-69, Cl. 307-261.
Meyer, Leo J., to Meyer Machine Company. In-the-shell pecan sanitizer. 3,463,074, 8-26-69, Cl. 99-249.
Meyer, Leonard S., to Leopold, F. B., Company, Inc. Meter housing structure. 3,443,436, 5-13-69, Cl. 73-273.
Meyer, Leonard S. Formation of reinforced plastic rods and tubes. 3,470,051, 9-30-69, Cl. 156-171.
Meyer, Lorenz. Means for processing scallops for the market. 3,465,382, 9-9-69, Cl. 17-53.
Meyer, Lorin Allen. Changing flammable liquid volatile fuels into flammable gases. 3,464,678, 9-2-69, Cl. 261-60.
Meyer, Luther W.: *See*—
Van Gompel, James J.; and Meyer, Luther W.,3,422,714.
Meyer Machine Company: *See*—
Meyer, Leo J., 3,463,074.
Meyer Manufacturing Company Limited: *See*—
Cheng, Wing G., 3,471,849.
Meyer, Marion J.; and McCabe, Donald A., to Limbaugh Engineers, Inc. Photogrammetry. 3,468,663, 9-23-69, Cl. 96-41.
Meyer, Maurice J., to M & M Distributing Company, Incorporated. Device for measuring and mixing measured amounts of material. 3,478,768, 11-18-69, Cl. 137-101.21
Meyer, Mervin: *See*—
Dille, James M.; Stiefel, Frank J.; and Meyer, Mervin,3,428,638.
Meyer Morton Co.: *See*—
Batterton, Elmo L.; and Lonsdale, Melvin J., 3,440,734.
Meyer, Orman F.: *See*—
Calfee, Richard W.; Hopner, Emil; Meyer, Orman F.; and West, Lynn P.,3,466,392.
Meyer, Paul E.: *See*—
Lavery, Charles A.; and Meyer, Paul E.,3,469,373.
Meyer Products, Inc.: *See*—
Banker, Oscar H., 3,433,168.
Meyer, Edward T., 3,465,456.
Peitl, Josef, 3,432,946.
Peitl, Josef, 3,432,947.
Meyer, Richard C. Adjustable tool chuck. 3,484,115, 12-16-69, Cl. 279-6.

Meyer, Robert A.: *See—*
Simnad, Massoud T.; Meyer, Robert A.; and Vanek, Richard P.,3,436,790.
Meyer, Robert E.: *See—*
Wilds, Robert W.; and Meyer, Robert E.,3,473,197.
Meyer, Robert F., to Parke, Davis & Company. 3-Tertiary aminoalkylamino-3-phenyl oxindole compounds. 3,441,570, 4-29-69, Cl. 260-325.
Meyer, Robert W., to Boise Cascade Corporation. Proof-of-purchase compartment envelope. 3,467,299, 9-16-69, Cl. 229-70.
Meyer, Ronald K. Console. 3,461,349, 8-12-69, Cl. 317-120.
Meyer, Ronald K. Adapter wall. 3,462,892, 8-26-69, Cl. 52-28.
Meyer, Sven Fredrik Erhard, to Biotec AB. Hose pump. 3,463,092, 8-26-69, Cl. 103-149.
Meyer, Theodore J., Jr.; and Groce, Homer W., to Riegel Textile Corporation. Mechanism for automatically conveying, bar tacking and stacking individual flat flexible workpieces. 3,434,440, 3-25-69, Cl. 112-10.
Meyer, Victor E.; Tacey, Clarence J.; and Houggy, Dennis E., to Dow Chemical Company, The. Synthetic latex foam composition and method of making same. 3,422,038, 1-14-69, Cl. 260-2.5
Meyer, Victor W. H. Solderless safety-lock tangent arm assembly. 3,455,173, 7-15-69, Cl. 74-69.
Meyer, Walter; and Bedo, Zoltan, to Albiswerk Zurich A.G. Overload and short-circuit protection for a D.C. voltage regulator. 3,432,726, 3-11-69, Cl. 317-31.
Meyer, Willy. Corner connection especially for producing frames for windows and aquariums. 3,434,749, 3-25-69, Cl. 287-189.36
Meyer-Simon, Eugen: *See—*
Schwarz, Rudolf; and Meyer-Simon, Eugen,3,475,139.
Meyerand, Russell G., Jr.; and Haught, Alan F., to United Aircraft Corporation. Radar system. 3,463,588, 8-26-69, Cl. 356-5.
Meyercord Co., The: *See—*
Davis, Allan C., 3,477,198.
Kampf, Otto W., 3,474,727.
Milliken, Thomas J., 3,441,458.
Milliken, Thomas J., 3,445,309.
Meyerer, Paul: *See—*
Katz, Helmut; and Meyerer, Paul,3,474,282.
Meyerer, Paul, to Siemens Aktiengesellschaft. Permanent magnet system for the generation of a substantially homogeneous magnetic field for the bundled guidance of an electron beam over a relatively long path, especially for traveling wave tubes. 3,436,587, 4-1-69, Cl. 315-3.5
Meyerer, Paul; and Veith, Werner, to Siemens Aktiengesellschaft. Frequency-modulation tube with an ion getter pump. 3,475,650, 10-28-69, Cl. 315-5.38
Meyerhoefer, Carl E., to Regina Corporation, The. Spindle insulating seal. 3,434,304, 3-25-69, Cl. 64-6.
Meyerhoefer, Carl H. Portable, disposable barbecue unit. 3,478,733, 11-18-69, Cl. 126-9.
Meyerhoff, Alfred; Stewart, William A.; Long, Arthur H.; and Kothmann, Richard E., to Westinghouse Electric Corporation. Integral heat sink for semiconductor devices. 3,457,988, 7-29-69, Cl. 165-80.
Meyerhoff, Henry J., to Huntec Limited. Self-adjusting filter. 3,421,141, 1-7-69, Cl. 340-15.5
Meyerle, George M., to Network Research & Mfg., Corporation. Switching circuit. 3,485,227, 12-23-69, Cl. 123-148.
Meyerle, John A.: *See—*
Brooks, Chester E.; Henry, James L.; and Meyerle, John A.,3,435,159.
Brooks, Chester E.; Henry, James L.; Linhart, Peter B.; Markthaler, Grace E.; Massoni, Donald R.; and Meyerle, John A.,3,462,557.
Meyers, Anthony P., to Conco Inc., mesne. Sewer cleaning apparatus. 3,457,580, 7-29-69, Cl. 15-104.3
Meyers, Charles O.; and Coggins, Robert W., to Combustion Engineering, Inc. Method of and means for reconcentrating liquid desiccant. 3,450,603, 6-17-69, Cl. 203-18.
Meyers, George Leroy, to American Can Company. Box and box blank. 3,469,767, 9-30-69, Cl. 229-51.
Meyers, George L., to American Can Company. Method of packaging bread. 3,469,999, 9-30-69, Cl. 99-173.
Meyers, Gilbert. Power system for high rise apartment buildings. 3,432,677, 3-11-69, Cl. 307-17.
Meyers, Gordon C.; and Vessel, Richard L., to Teletype Corporation. Start mechanism for telegraph selector. 3,445,592, 5-20-69, Cl. 178-33.
Meyers, John J.; Martin, Lawrence R.; and Rubin, Jacob C., to Eastman Kodak Company. Dialyzing apparatus and method of making the same. 3,464,562, 9-2-69, Cl. 210-321.
Meyers, Joseph A., III: *See—*
Lincoln, Robert M.; and Meyers, Joseph A., III,3,465,033.
Meyers, Ralph C., to McGraw-Edison Company. Energy storage capacitors. 3,483,453, 12-9-69, Cl. 317-260.
Meyers, Richard P., to Dana Corporation. Trunnion seal for Cardan-type universal joint. 3,479,840, 11-25-69, Cl. 64-17.
Meyers, Robert A.; and Wilson, Edgar R., to TRW Inc. Dichloroalicyclic sulfide polymers. 3,429,859, 2-25-69, Cl. 260-79.
Meyers, Willard F., to Owens-Illinois, Inc. Closure seal and cap. 3,469,748, 9-30-69, Cl. 222-563.
Meyers, William F., to Corson, G. & W.[H. Incorporated. Method of stabilizing atomic N and free radicals and resulting product. 3,423,191, 1-21-69, Cl. 23-356.
Meyers, William F.; and Simmons, John W., to Livingston Electronic Corporation. Electric current-producing cell with anhydrous organic liquid electrolyte. 3,423,242, 1-21-69, Cl. 136-6.
Meyers, William F.; and Smiley, Charles E., to Honeywell Inc. Ammonia battery system. 3,470,029, 9-30-69, Cl. 136-90.
Meyers, William G., to TRW Inc. Three-photocell network for detecting small-area radiation source in presence of large area background noise radiation. 3,475,613, 10-28-69, Cl. 250-217.
Meyers, Willis G.; and Bailey, Robert A., to General Motors Corporation. Cylinder head gasket. 3,473,813, 10-21-69, Cl. 277-180.
Meyersahm, Alvin I.; and Rehmke, William F. Positive motion extendable and retractable strip actuator and/or support. 3,444,835, 5-20-69, Cl. 114-112.
Meylan, Claude: *See—*
Berney, Claude; and Meylan, Claude,3,452,416.
Meyreis, Hans-Werner: *See—*
Porrmann, Herbert; Seifried, Walter; and Meyreis, Hans-Werner,3,473,957.
Meysson, Nicolas; and Dumont-Fillon, Jacques, to Institut de Recherches de la Siderurgie Francaise. Device for continuously measuring the oxygen content of a molten metal including an electrolytic cell having a solid electrolyte. 3,464,008, 8-26-69, Cl. 324-71.
Meystre, Charles: *See—*
Anner, Georg; Meystre, Charles; Kalvoda, Jaroslav; and Ueberwasser, Hellmut,3,431,191.
Anner, Georg; Ueberwasser, Helmut; and Meystre, Charles,3,423,437.
Mezentsev, Jury Grigorievich: *See—*
Rebenok, Anatoly Georgievich; Budenkov, Valentin Nikolaevich; Mezentsev, Jury Grigorievich; Vainshtein, Lazar Pinkhusovich; Durachenko, Mikhail Ivanovich; and Kovdrya, Ivan Timofeevich,3,457,879.
Mezey, Livia. Combined cake of soap and applicator. 3,426,464, 2-11-69, Cl. 401-201.
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich, to Gosudarstvenny Nauchno-Issledovatelsky Iproektny Institut Giprotjumenneftegaz. Device for transporting drilling rigs over a support surface. 3,473,624, 10-21-69, Cl. 180-127.
Mezoff, John G.: *See—*
Olstowski, Franciszek; and Mezoff, John G.,3,431,970.
M G M Brakes, Inc.: *See—*
Gummer, Allen L.; and Mathews, George P., 3,424,062.
MGS Incorporated: *See—*
Gehman, Roland P.; Martin, Eugene G.; and Smith, Edgar H., 3,453,678.
Miachon, Jean Paul: *See—*
Dollfus, Jacques; and Miachon, Jean Paul,3,438,573.
Miale, Joseph N.; and Weisz, Paul B., to Mobil Oil Corporation. Upgrading of hydrocarbons in the presence of a mixed alumino-silicate and metal catalyst. 3,432,568, 3-11-69, Cl. 260-676.
Miale, Joseph N.; and Weisz, Paul B., to Mobil Oil Corporation. Catalyst for hydrocarbon conversion and method for its preparation. 3,471,412, 10-7-69, Cl. 252-439.
Miami Brick and Stone, Inc.: *See—*
Poynter, Kenneth L., 3,479,705.
Miami Copper Company: *See—*
Corbett, Burton, 3,435,952.
Miano, Paul P. Caster wheel. 3,445,882, 5-27-69, Cl. 16-21.
Micafil A.G.: *See—*
Gertsch, Georges-Albert; and Knoth, Walter, 3,458,764.
Knoth, Walter; and Luscher, Werner, 3,431,493.
Micai, Louis Z.: *See—*
Burfield, Peter C.; and Micai, Louis Z.,3,479,728.
Micai, Louis Z.; and Seemann, Andrew M., to Federal-Mogul Corporation. Method for molding leather sealing members. 3,472,926, 10-14-69, Cl. 264-292.
Micallef, Lewis A., to Leeds and Micallef, mesne. Captive actuator for pressure operated container. 3,429,483, 2-25-69, Cl. 222-153.
Micallef, Lewis A., to Leeds and Micallef. Surge proof pouring device. 3,429,488, 2-25-69, Cl. 222-570.
Micallef, Lewis A., to Leeds and Micallef. Self-sealing leak-proof pump. 3,452,905, 7-1-69, Cl. 222-207.
Micallef, Lewis A., to Leeds and Micallef. Foam generating and dispensing device. 3,471,064, 10-7-69, Cl. 222-211.
Micallef, Lewis A., to Leeds and Micallef. Squeeze bottle and dispensing cap therefor. 3,471,066, 10-7-69, Cl. 222-519.
Micallef, Lewis A., to Leeds and Micallef. Valved container caps. 3,484,027, 12-16-69, Cl. 222-554.

Micchelli, Albert L.: *See—*
Meigs, Frederick M.; Micchelli, Albert L.; and Wasserman, David,3,475,386.
Miccioli, Bruno R.: *See—*
Lambertson, Wingate A.; and Miccioli, Bruno R.,3,467,745.
Micco, Leopoldo A.; and Jones, Donald P., to GAF Corporation. Process for producing a molded polymethyl meth- acrylate article having white pigment dispersed therein for use as a secondary standard for reflection measurements. 3,449,487, 6-10-69, Cl. 264-140.
Miceli, Fidelis P. Stairway. 3,430,729, 3-4-69, Cl. 182-93.
Miceli, Joseph S. Electric safety razor. 3,431,643, 3-11-69, Cl. 30-42.
Micetich, Ronald George; and Lemieux, Raymond Urgel, to R & L Molecular Research Ltd. Basic esters of certain substituted isoyazole-4- carboxylic acids. 3,465,000, 9-2-69, Cl. 260-307.
Micetich, Ronald George: *See—*
Raap, Rintje; Lemieux, Raymond Urgel; and Micetich, Ronald George,3,476,743.
Lemieux, Raymond U.; and Micetich, Ronald G.,3,476,765.
Michael, Anthony D.; and Pratt, George C., to Glacier Metal Company Limited, The. Bearing materials and method of making same. 3,432,293, 3-11-69, Cl. 75-138.
Michael, Dietrich: *See—*
Schnell, Hermann; Bottenbruch, Ludwig; and Michael, Dietrich,3,450,793.
Michael, James: *See—*
Evans, Trevor Gwilym; and Ryder, Geoffrey Alan, 3,480,170.
Michael, James E.: *See—*
Mayo, James W.; and Michael, James E.,3,421,134.
Michael, James L.; and Jackson, Harold W., to National Dairy Products Corporation. Product and process for enhancing the grape-like flavor of food products. 3,427,167, 2-11-69, Cl. 99-140.
Michael, Malden Ward, to American Cyanamid Company. Process for preparing a crystalline zeolite catalyst composite. 3,429,830, 2-25-69, Cl. 252-453.
Michael, Malden Ward, to American Cyanamid Company. Selective cracking catalyst. 3,451,947, 6-24-69, Cl. 252-453.
Michael, Malden Ward: *See—*
Innes, William Beveridge; and Michael, Malden Ward,3,459,681.
Michael, Richard W.; and Porter, Grady T., to Phillips Petroleum Company. SCR ring counter having switching means to selectively climinate stage from counting sequence. 3,432,684, 3-11-69, Cl. 307-223.
Michael, Stanley, to Musitronic, Inc. Omnidirectional sound system. 3,483,945, 12-16-69, Cl. 181-31.
Michael, Vesta Fletcher, to Koch Industries, Inc., mesne. Apparatus for making filament reinforced plastic pipe. 3,433,696, 3-18-69, Cl. 156-425.
Michael, William L. Control systems for diesel-powered unit during flash condition. 3,471,705, 10-7-69, Cl. 290-40.
Michaelis, Eduard, to Bot Brassert Oxygen Technik AG. Basic steel-making process. 3,473,917, 10-21-69, Cl. 75-52.
Michaelis, Henry L.; and Michaelis, Larry D. Agricultural implement working depth gauge. 3,433,309, 3-18-69, Cl. 172-430.
Michaelis, Horst, to U.S. Philips Corporation. Reversible ring counters comprising bistable transductors. 3,487,381, 12-30-69, Cl. 340-174.
Michaelis, Larry D.: *See—*
Michaelis, Henry L.; and Michaelis, Larry D.,3,433,309.
Michaelis, Manfred, to Braun Aktiengesellschaft. Electrically driven kitchen implement. 3,465,800, 9-9-69, Cl. 146-68.
Michaelis, Manfred, to Braun Aktiengesellschaft. Shredder. 3,477,489, 11-11-69, Cl. 146-76.
Michaelis, Paul C., to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation device. 3,454,939, 7-8-69, Cl. 340-174.
Michaelis, Paul C., to Bell Telephone Laboratories, Incorporated. Asynchronous magnetic circuit. 3,480,925, 11-25-69, Cl. 340-174.
Michaelis, Paul C.: *See—*
Gianola, Umberto F.; and Michaelis, Paul C.,3,471,819.
Michaels, Alan S.: *See—*
Bolger, Justin C.; and Michaels, Alan S.,3,449,313.
Michaels, Alan S., to Amicon Corporation. Moisture permeable polyion complex-resinous composites. 3,467,604, 9-16-69, Cl. 260-2.5
Michaels, Glenn O.: *See—*
Mooi, John; and Michaels, Glenn O.,3,462,505.
Michaels, Glenn O., to Sinclair Research, Inc. Process for removing hydrogen from the effluent stream of a vacuum dehydrogenation unit. 3,448,162, 6-3-69, Cl. 260-680.
Michaels, Glenn O.; and Mooi, John, to Sinclair Research, Inc. Dehydrogenation process. 3,470,262, 9-30-69, Cl. 260-680.
Michaels, John, to United States Borax & Chemical Corporation. Soap dispenser. 3,465,924, 9-9-69, Cl. 222-511.
Michaels, Leo: *See—*
Altwicker, Elmar R.; and Michaels, Leo,3,487,110.
Michaels, Leonard H., to Harper-Wyman Company. Multi-position solenoid and control circuit. 3,423,020, 1-21-69, Cl. 236-15.
Michaels, Michael: *See—*
Czarnecki, Adolph; Jones, Kenneth L.; and Michaels, Michael,3,435,780.
Michaels, Thomas B., to Xerox Corporation. Fusing apparatus with flashlamp circuit. 3,445,626, 5-20-69, Cl. 219-216.
Michaels, Thomas B.: *See—*
Galster, Thomas H.; and Michaels, Thomas B.,3,465,203.
Gardner, John F.; Michaels, Thomas B.; and Taillie, Gordon P.,3,473,035.
Stange, Klaus K.; Lux, Adalbert A.; and Michaels, Thomas B.,3,469,834.
Michaels, William A.: *See—*
Updike, Stanley H.; and Michaels, William A.,3,459,166.
Updike, Stanley H.; Cherrie, James M.; and Michaels, William A.,3,421,734.
Michaelsen, Verner, to A/S Brdr. Michaelsen. Fire valve for oil burning installations. 3,464,433, 9-2-69, Cl. 137-77.
Michaelson, Joseph B.; and Criswell, Angie F. Human nail coating compositions. 3,483,289, 12-9-69, Cl. 424-61.
Michaelson, Reynold R.; and LaTendresse, Philip E., to Pettibone Mulliken Corporation. Log skidder with cab-controlled cable binder. 3,477,596, 11-11-69, Cl. 214-92.
Michaelson, Stanley D., to Kennecott Copper Corporation. Jaw-type crusher. 3,452,938, 7-1-69, Cl. 241-202.
Michal, Albert, to Grace, W. R., & Co. Stabilizing filming amino emulsions. 3,444,090, 5-13-69, Cl. 252-312.
Michal, David H.: *See—*
Pinkham, Jesse R.; Payne, Leslie E.; Michal, David H.; and McArthur, Colin S.,3,456,787.
Michal, Eugene J., to National Lead Company. Process for removing vanadium from iron ores. 3,486,842, 12-30-69, Cl. 23-15.
Michal, Eugene J.; and Nilsen, Arnold E., to National Lead Company. Titanium dioxide concentrate and method for producing the same. 3,446,590, 5-27-69, Cl. 23-202.
Michal, Eugene J.; and Nilsen, Arnold E., to National Lead Company. Process for recovering vanadium from an alkali metal vanadate solution. 3,472,612, 10-14-69, Cl. 23-22.
Michalchik, Michael, to Fairchild Camera and Instrument Corporation. Electrophotographic engraving plate. 3,464,820, 9-2-69, Cl. 96-1.8
Michalchik, Michael; and Goldstein, Amnon, to Fairchild Camera and Instrument Corporation. Electrothermographic master. 3,482,513, 12-9-69, Cl. 101-463.
Michalke, Klaus A.: *See—*
Zichichi, Andrew W.; and Michalke, Klaus A.,3,447,185.
Michalke, Reinhard, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Air-fuel ratio control system. 3,421,314, 1-14-69, Cl. 60-13.
Michalke, Richard E.; Valle, Joseph; and Grant, Melvin M., to Sun Valley Pools, Inc. Aboveground swimming pools. 3,458,875, 8-5-69, Cl. 4-172.
Michalko, Edward, to Universal Oil Products Company. Method of catalyst preparation. 3,428,572, 2-18-69, Cl. 252-436.
Michalko, Edward, to Universal Oil Products Company. Crystalline zeolite. 3,428,574, 2-18-69, Cl. 252-455.
Michalko, Edward, to Universal Oil Products Company. Hydrocarbon conversion catalyst preparation. 3,437,604, 4-8-69, Cl. 252-455.
Michalko, Edward: *See—*
Vesely, Kenneth D.; and Michalko, Edward,3,472,792.
Michalko, Ignatius, to Sonotone Corporation. Fusion-sealed metal-enclosed rechargeable battery cell. 3,421,945, 1-14-69, Cl. 136-6.
Michalski, Conrad: *See—*
Baker, Thomas Nelson, III; Michalski, Conrad; Sheng, Ming Nan; and Zajacek, John G.,3,480,519.
Michalski, Frank J., 1/2 to Danielski, Frederick. Portable ironing equipment. 3,483,954, 12-16-69, Cl. 190-42.
Michalski, Kazimierz: *See—*
Pawlak, Zbigniew; Michalski, Kazimierz; and Surowiecki, Jerzy,3,439,633.
Michalski, Maksymilian A., to Berkey Photo, Inc. Electric system. 3,465,204, 9-2-69, Cl. 315-363.
Michalski, Maksymilian A., to Berkey Photo, Inc. System cooling for discharge lamp. 3,470,415, 9-30-69, Cl. 315-117.
Michalski, Maksymilian A., to Berkey Photo, Inc. Timing circuit. 3,483,401, 12-9-69, Cl. 307-293.
Michaud, Andre Louis: *See—*
Mas, Robert Jean; and Michaud, Andre Louis,3,436,180.
Miche, Andre, to Glaverbel S.A. Process for agglomerating vitrifiable masses and the products thereof. 3,451,831, 6-24-69, Cl. 106-52.
Micheau, Pierre Gabriel: *See—*
Mordchelles-Regnier, Georges; Naudin, Paul Marcel; and Micheau, Pierre Gabriel,3,462,905.
Michel, Alfred; and Schindler, Heinrich, to Siemens Aktiengesellschaft. Electrical apparatus for electromagnetic control of plasmoids. 3,461,033, 8-12-69, Cl. 176-3.
Michel, Alfred: *See—*
Holtschmidt, Ulrich; and Michel, Alfred,3,434,992.

Michel, Hartmut; and Seiter, Gerd, to Telefunken Patentverwertungsgesellschaft m.b.H. Process of fabricating a metal base transistor. 3,424,627, 1b28-69, Cl. 148-174.
Michel, James D.: *See*—
Lautzenhiser, Robert L.; and Michel, James D.,3,478,995.
Michel, Jean-Marie; and Peyrade, Jean, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Process for the production of graft copolymers of dienes on vinyl-type polymers. 3,487,037, 12-30-69, Cl. 260-29.7
Michel, Maurice J. Portable seesaw. 3,472,507, 10-14-69, Cl. 272-56.
Michel, Max, to Produits Chimiques Pechiney-Saint-Gobain. Preparation of hydrargillite crystals. 3,480,388, 11-25-69, Cl. 23-143.
Michel, Max; and Papee, Denis, to Produits Chimiques Pechiney-Saint-Gobain. Method for the preparation of 4 angstrom units zeolites. 3,433,588, 3-18-69, Cl. 23-113.
Michel, Raymond E.; and: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,412.
Michel, Raymond S., to United Medical Laboratories, Inc. Office units for organizing reference cards and supplies. 3,428,186, 2-18-69, Cl. 211-55.
Michel, Raymond S., to United Medical Laboratories, Inc. Package for mailing biological samples to laboratories for special tests. 3,446,342, 5-27-69, Cl. 206-47.
Michel, Rudolph. Shock absorber for persons. 3,429,545, 2-25-69, Cl. 248-358.
Micheller, Rudolph J.: *See*—
Patterson, Robert C.; and Micheller, Rudolph J.,3,467,066.
Michelon, Philippe A.: *See*—
Cooper, Peter G.; Michelon, Philippe A.; and Murphy, Clarence R.,3,461,139.
Michelotti, Francis W.; and Zief, Morris, to Baker, J. T., Chemical Company. Epoxy resins containing a polyglycidyl ether and the reaction product of an hydroxy terminated monoglycidyl ether with a diisocyanate. 3,459,828, 8-5-69, Cl. 260-830.
Michelotti, Giovanni, to Standard-Triumph Motor Company Limited, The. Protective apparatus for motor vehicle headlamps. 3,445,644, 5-20-69, Cl. 240-7.1
Micheloud, Andre: *See*—
Spadini, Paolo A.; and Micheloud, Andre,3,462,943.
Michels, Alan P.: *See*—
Schlegel, Norman C., Jr.; and Michels, Alan P.,3,467,423.
Michels, Friedrich; and Zschau, Horst, to Fernseh G.m.b.H. Arrangement for protection of a camera tube. 3,459,889, 8-5-69, Cl. 178-7.92
Michels, Gerald W. Motorcycle armchair safety seat. 3,425,745, 2-4-69, Cl. 297-195.
Michels, Julian Getz, to Norwich Pharmacal Company, The. 3-Hydroxymethyl-1-(5-nitrofurfurylideneamino) hydantoin. 3,446,802, 5-27-69, Cl. 260-240.
Michels, Nick P. Camera with dating apparatus. 3,478,657, 11-18-69, Cl. 95-1.1
Michels, Peter; and Engel, Horst, to Continental Gummi-Werke Aktiengesellschaft. Method of making a resilient reinforced conveyor belt. 3,470,050, 9-30-69, Cl. 156-164.
Michelsen, Johan L.: *See*—
Coyle, Harry H.; and Michelsen, Johan L.,3,467,403.
Michelson, Anatol: *See*—
Cruger, Robert W.; and Michelson, Anatol,3,429,366.
Michelson, Anatol, to Bliss, E. W., Company. High velocity forming machine. 3,422,658, 1-21-69, Cl. 72-407.
Michelson, Anatol, to Bliss, E. W., Company. Starting mechanism for continuous casting machine. 3,426,835, 2-11-69, Cl. 164-274.
Michelson, Anatol, to Bliss, E. W., Company. High energy rate metal forming machine. 3,427,851, 2-18-69, Cl. 72-408.
Michelson, Anatol, to Bliss, E. W., Company. Movable bolster for presses. 3,427,854, 2-18-69, Cl. 72-448.
Michelson, Anatol, to Bliss, E. W., Company. Movable bolster for presses. 3,427,855, 2-18-69, Cl. 72-448.
Michelson, Anatol, to Bliss, E. W., Company. Apparatus for continuous casting. 3,446,270, 5-27-69, Cl. 164-282.
Michelson, Anatol, to Bliss, E. W., Company. Method for supplying multiple metal streams to a continuous casting mold. 3,456,713, 7-22-69, Cl. 164-82.
Michelson, Anatol, to Bliss, E. W., Company. Expanding mandrel assembly. 3,456,893, 7-22-69, Cl. 242-72.1
Michelson, Anatol, to Bliss, E. W., Company. Apparatus for producing adjustable reciprocation of a continuous casting mold. 3,461,950, 8-19-69, Cl. 164-260.
Michelson, Anatol, to Bliss, E. W., Company. Cutoff table with means automatically controlling position of rolls relative to torch. 3,462,134, 8-19-69, Cl. 266-23.
Michelson, Anatol, to Bliss, E. W., Company. Dual speed drive. 3,465,610, 9-9-69, Cl. 74-368.
Michelson, Charles, to Teverama S. A. Cinematographic projector apparatus. 3,420,606, 1-7-69, Cl. 352-239.
Michelson, Charles, to Teverama S.A. Color cinematographic film. 3,433,562, 3-18-69, Cl. 352-234.
Michelson, Charles. Teverama S.A. Film having several image sequences. 3,482,907, 12-9-69, Cl. 352-37.
Michelson, Christian E.; Murphy, James F.; and Montgomery, David C., to Olin Mathieson Chemical Corporation. Process for coloring aluminum. 3,423,298, 1-21-69, Cl. 204-58.
Michelson, Irving L. Automatic electroplating and washing apparatus. 3,420,766, 1-7-69, Cl. 204-201.
Michelson, Irving, to American Safety Equipment Corporation. Cardiopulmonary resuscitation apparatus. 3,461,858, 8-19-69, Cl. 128-28.
Michelson, Stephen A.: *See*—
Spiro, Irving, 3,473,527.
Michelson, Yigal. Power ladder. 3,424,271, 1-28-69, Cl. 182-14.
Michener, Aubrey W., Jr.; Carlson, Emery J.; and Koo, Raymond H., to Allied Chemical Corporation. Iron free aluminum sulfate. 3,479,136, 11-18-69, Cl. 23-123.
Michener, Aubrey Westlake, Jr.; and Veldhuis, Benjamin, to Allied Chemical Corporation. Sulfonation process improvement. 3,462,474, 8-19-69, Cl. 260-458.
Michener, Lynn H. Automatic tree pruner. 3,451,448, 6-24-69, Cl. 144-2.
Michener, Robert; and Miller, Edward A., to Fischer & Porter Co. Turbine flowmeter transducer transmission system. 3,455,162, 7-15-69, Cl. 73-231.
Micheron, Francois: *See*—
Baumberger, Clement F.; and Micheron, Francois,3,479,510.
Micheron, Francois; and Baumberger, Clement. CSF-Compagnie Generale de Telegraphie Sans Fil Infrared image converter. 3,487,212, 12-30-69, Cl. 250-83.3
Michielsen, Ludovicus: *See*—
Dijkers, Johannes L. C.; and Michielsen, Ludovicus,3,459,610.
Michigan Chemical Corporation: *See*—
Long, Samuel Wendell, 3,452,089.
Morton, John R., 3,455,646.
Michigan Dynamics, Inc.: *See*—
Alsobrooks, Darriel L., 3,444,672.
Michigan Foundry Supply Company: *See*—
MacDonald, Ward D., 3,450,529.
Michigan Instruments, Inc.: *See*—
Barkalow, Clare E., 3,461,860.
Barkalow, Clare E.; and Folkerth, Ilden R., 3,461,861.
Michigan Oven Company: *See*—
Windsor, Charles A., 3,448,969.
Michigan Tool Company: *See*—
Birch, Edward S., 3,459,103.
Birch, Edward S., 3,460,431.
Michiulis, Bruno B., to Sola Basic Industries, Inc. Method of making grain-oriented laminations for magnetic core structures. 3,457,635, 7-29-69, Cl. 29-609.
Michiulis, Buno B., to Sola Basic Industries, Inc. Method of making scrapless laminations for producing a plurality. 3,461,758, 8-19-69, Cl. 83-32.
Michniewicz, Edward J., to Argus Incorporated. Slide feeding and handling apparatus. 3,485,558, 12-23-69, Cl. 353-104.
Michnik, Lewis, to Sierra Research Corporation. CAS receive-only clock synchronization. 3,458,861, 7-29-69, Cl. 343-112.
Michnikowska, Wanda: *See*—
Pazola, Zdzislaw; Switek, Henryk; Janicki, Jozef; and Michnikowska, Wanda,3,476,646.
Michnoff, David N. Antitheft device for locking the brake of an automotive vehicle. 3,435,646, 4-1-69, Cl. 70-203.
Michon, Gerald J.: *See*—
Burke, Hubert K.; and Michon, Gerald J.,3,444,454.
Burke, Hubert K.; and Michon, Gerald J.,3,450,943.
Michon, Gerald J., to General Electric Company. Minimum quantity selector with fail-safe override. 3,479,527, 11-18-69, Cl. 307-235.
Michon, Gerald J.; and Stratton, Jerry L., to General Electric Company. Precision timing pulse generator. 3,458,731, 7-29-69, Cl. 307-265.
Micin, Le Roy F. Shaker. 3,437,317, 4-8-69, Cl. 259-75.
Mick, William F.: *See*—
Schroeder, Robert E.; West, Walter H.; and Mick, William F.,3,461,505.
Mickelson, Floyd L.; and Wilde, Arthur G., Jr., to Diversey Corporation, The. Aluminum alloy deoxidizing-desmutting composition and method. 3,448,055, 6-3-69, Cl. 252-79.3
Mickelson, Floyd Louis; and Maisel, Eugene Frank, to Diversey Corporation, The. Method and composition for chemically polishing metals. 3,457,107, 7-22-69, Cl. 134-3.
Mickelson, Floyd L.: *See*—
Wilde, Arthur G., Jr.; Maisel, Eugene F.; and Mickelson, Floyd L.,3,447,972.
Mickelson, Merlyn F.; and Brown, Thomas D. Process for making printed circuits. 3,434,939, 3-25-69, Cl. 204-15.
Mickle, Scott C., to Cooper Industries, Inc. Piston rider ring. 3,447,427, 6-3-69, Cl. 92-253.
Mickley, Lewis D., Jr.: *See*—
Westbrook, Sidney O.; and Mickley, Lewis D., Jr.,3,479,060.
Micoa, Inc.: *See*—
Blumenfeld, Leo, 3,481,239.

Micro and Precision Mouldings (Cheltenham) Limited: *See—*
James, Michael Joseph, 3,430,999.
Micro State Electronics Corporation, The: *See—*
Lederhandler, Saul R., 3,453,431.
Micro Tech Mfg., Inc.: *See—*
Forcier, Edward C., 3,435,815.
Micro-Electronics International, Inc.: *See—*
La Lone, Francis G.; and La Lone, Frank R., 3,448,822.
Micro-Frets Corporation: *See—*
Jones, Ralph S., Sr., 3,429,214.
Micro-Magnetic Industries, Inc.: *See—*
Riddle, John B.; and McLaughlin, Robert B., 3,442,363.
Tanaka, Frederick K., 3,435,833.
Tanaka, Frederick K.; Lawrence, Franklin B.; and Riddle, John B., 3,447,655.
Micro-Mega: *See—*
Garnier, Marcel, 3,432,194.
Micro-Miniature Parts Corporation: *See—*
Draving, Walter J., 3,427,764.
Draving, Walter J.; and Nerz, Joseph E., 3,450,359.
Draving, Walter J., 3,487,188.
Micro-poise Engineering and Sales Company: *See—*
Harmon, Edward J., 3,452,845.
Microbiological Associates, Inc.: *See—*
Bozicevich, John, 3,429,867.
Microcom Corporation: *See—*
Rosen, Charles, 3,464,031.
Microdot Inc.: *See—*
Bedford, William A., Jr., 3,474,847.
Bush, Jack A.; and Shaull, Stanley D., 3,475,790.
Collins, Richard H., 3,455,018.
Pastan, Harvey L., 3,459,046.
Russell, John D., 3,448,607.
Skirvin, Clifford D., 3,431,465.
Skirvin, Clifford D., 3,440,488.
Skirvin, Clifford D., 3,444,415.
Skirvin, Clifford D., 3,467,887.
Thurston, Raymond L., 3,460,598.
Microdyne, Inc.: *See—*
Oltendorf, Norman, 3,475,669.
Oltendorf, Norman, 3,475,672.
Microflect Co., Inc.: *See—*
Kreitzberg, James S., 3,440,659.
Microform Data Systems, Inc.: *See—*
Roush, Leslie M., 3,433,565.
Microlab: *See—*
Bramick, John O.; and Dreyer, Charles W., 3,464,037.
Microlite Corporation, The: *See—*
Matthews, William R., 3,439,366.
Matthews, William R., 3,485,198.
Micromatic Hone Corporation: *See—*
Czubak, Albin S.; and Militzer, Robert W., 3,456,402.
North, John D.; and Hubble, Gerald A., 3,481,466.
Micromeritics Instrument Corporation: *See—*
Hendrix, Warren P.; and Orr, Clyde, Jr., 3,464,273.
Micron Etablissement: *See—*
Tatar, Alexander, 3,483,659.
Microseal Limited: *See—*
Groszek, Aleksander Jerzy, 3,467,501.
Microseal Corporation: *See—*
Anderson, Thomas P.; and Beispel, Robert, 3,429,101.
Microtherm Limited: *See—*
Sandy, Julius W., 3,443,509.
Sandy, Julius W., 3,465,493.
Smith, Peter Harold, 3,435,753.
Smith, Peter Harold, 3,440,383.
Smith, Peter Harold, 3,440,385.
Smith, Peter Harold, 3,467,804.
Microulis, Anthony. Bottle top with resilient attaching sleeve. 3,430,826, 3-4-69, Cl. 222-570.
Microwave Associates, Inc.: *See—*
Collins, Fredrick P.; and Clark, Roland Everett, 3,443,199.
Evans, Kenneth R., 3,431,453.
Genzabella, Carmen F.; and Wade, Richard C., 3,458,778.
Hines, Marion E., 3,423,699.
Hines, Marion E.; and Helszajn, Joseph, 3,457,525.
Mesler, Larry L., 3,460,002.
Moroney, William J.; and Chalifour, Henri R., 3,457,471.
Uhlir, Arthur, Jr., 3,480,887.
Walker, Richard M., 3,436,694.
Walker, Richard M., 3,452,306.
Microwave Development Laboratories, Inc.: *See—*
Brosnahan, Robert E.; and Curley, Edward J., 3,451,014.
Micucci, Dominic Donald: *See—*
Palopoli, Frank P.; Micucci, Dominic Donald; and Rosenstock, Paul D.,3,440,274.
MICUS Immobiliar und Finanzierung Anstalt-Triesen Liechtenstein: *See—*
Bertrandi, Luigi; and Zacchetti, Edvino, 3,482,845.
Miczka, Lothar. Apparatus for determining the alcohol content of exhaled air. 3,437,448, 4-8-69, Cl. 23-254.
Miczka, Lothar. Method of ascertaining the alcohol content of exhaled air, and also a testing tube for carrying out such method. 3,459,508, 8-5-69, Cl. 23-232.
Mid-Continent Manufacturing Co.: *See—*
Lidoski, Joseph F.; and Masi, James V., 3,474,379.
Masi, James V., 3,484,606.
McGuire, John N.; and Lally, Kenneth P., 3,484,607.
Seider, Gene J.; and Hanning, David L., 3,424,945.
Mid-West Metallic Products, Inc.: *See—*
Rogus, Joseph A., 3,455,463.
Mida Mfg. Inc.: *See—*
Love, Michael, 3,456,307.
Middagh, William R.: *See—*
Veltman, Herbert; O'Kane, Patrick T.; Gulyas, James W.; and Middagh, William R.,3,477,927.
Middaugh, George J., Jr.: *See—*
Charman, Walter M., Jr.; and Middaugh, George J., Jr.,3,477,493.
Charman, Walter M., Jr.; and Middaugh, George J., Jr.,3,478,999.
Middelhoek, Simon: *See—*
Chang, Hsu; Mee, Charles Denis; Voegeli, Otto; and Middelhoek, Simon,3,440,623.
Keefe, George E.; and Middelhoek, Simon,3,466,640.
Middelhoek, Simon, to International Business Machines Corporation. Magnetic film memory cell with angulariy displaced easy axes. 3,427,600, 2-11-69, Cl. 340-174.
Middelhoek, Simon, to International Business Machines Corporation. Magnetic thin film storage devices with rotatable initial susceptibility properties. 3,445,830, 5-20-69, Cl. 340-174.
Middelhoek, Simon, to International Business Machines Corporation. Magnetic film storage device with nondestructive readout. 3,466,635, 9-9-69, Cl. 340-174.
Middle, George Henry: *See—*
Moore, Arthur Ivan Walter; Porter, John Howard; Middle, George Henry; and Vearncombe, Richard Frank,3,464,098.
Middlebury Manufacturing Co., Inc.: *See—*
Shatas, William J.; and Smith, Stanley, 3,430,170.
Middleditch, Stanley William; and Sels, Victor Richard, to De La Rue Instruments Limited. Sheet feeding apparatus. 3,420,149, 1-7-69, Cl. 93-93.
Middlemark, Marvin P. Indoor television antenna with rotatable rings. 3,478,361, 11-11-69, Cl. 343-730.
Middlesworth, Tommy A.: *See—*
Pool, Stuart D.; Svereika, Edward; and Middlesworth, Tommy A.,3,481,122.
Middleton, Forest L., to Lescoa, Inc. Ashtray. 3,437,391, 4-8-69, Cl. 312-247.
Middleton, Frederic H.: *See—*
Trautman, Jack C.; and Middleton, Frederic H.,3,487,094.
Vedvik, Andrew H.; and Middleton, Frederic H.,3,471,918.
Middleton, Frederick H., to Mayer, Oscar, & Co., Inc. Multi-channel stuffing system. 3,422,489, 1-21-69, Cl. 17-35.
Middleton, Frederick H., to Mayer, Oscar, & Co., Inc. Multi-channel stuffing system. 3,473,189, 10-21-69, Cl. 17-35.
Middleton, John David, to Marconi Instruments Limited. Cathode ray tube display oscilloscope including means for applying voltages to a pair of additional deflecting plates for producing a time scale having a plurality of divisions extending from the displayed waveform. 3,427,541, 2-11-69, Cl. 324-121.
Middleton, Ralph E., to United States of America, Army, and/or United States of America, Federal Aviation Administration, Administrator. Bypass system for control surface actuator cylinders. 3,469,501, 9-30-69, Cl. 91-411.
Middleton, William B.: *See—*
Lohner, Louis A.; Middleton, William B.; and Richardson, Harry L.,3,471,138.
Middleton, William J., Jr.; and Askowith, Burton J., to Martin-Marietta Corporation. Apparatus for making novel master drawings using polarized light. 3,453,037, 7-1-69, Cl. 350-157.
Middleton, William J., du Pont de Nemours, E. I., and Company. Process for preparing perfluoroalkyl and ω-chloroperfluoroalkyl-3-acyloxy-1,3-butadienes and products and polymers thereof. 3,424,732, 1-28-69, Cl. 260-82.1
Middleton, William J., to Du Pont de Nemours, E. I., and Company. Certain 4-amino-3-oxazolines having halogenated hydrocarbon substituents in the 2-and 5-positions. 3,442,904, 5-6-69, Cl. 260-307.
Middleton, William J., to Du Pont de Nemours, E. I., and Company. 2,2,5,5-Tetrakis(polyfluoromethyl) imidazolidines and their preparation. 3,459,766, 8-5-69, Cl. 260-309.6
Middleton, William J., to Du Pont de Nemours, E. I., and Company. 4-Alkoxy (and 4-cycloalkoxy) -3-oxazolines having halogenated hydrocarbon substituents in the 2- and 5 positions. 3,461,129, 8-12-69, Cl. 260-307.
Midgette, Ernst L., 1/6 each to Daniel, Katherine, Daniel, Thomas M., and van Name, Marjorie E. Impeller. 3,486,741, 12-30-69, Cl. 259-107.

327-709 O-LT - 71 - pt. 1 - 67

Midkiff, James C., to Avco Corporation. Combined fire alarm, burglar alarm, and intercommunication system. 3,487,404, 12-30-69, Cl. 340-416.
Midland Adhesive and Chemical Corporation: *See—*
Rice, Herbert C., 3,473,775.
Midland Engineering & Machinery Company: *See—*
Hallock, Edward C., 3,435,574.
Larsson, Robert T., 3,436,574.
Midland Silicones Limited: *See—*
Archer, David Frederick; and Harris, Glyn Islwyn, 3,480,584.
Davies, William G.; Elliott, Brian; and Kendrick, Thomas C., 3,481,898.
Marshall, Hedley Samuel Bowdon; and Williams, Thomas Richard, 3,423,340.
Rees, David M., 3,436,251.
Midland-Ross Corporation: *See—*
Beggs, Donald; and Ahrendt, William A., 3,443,931.
Cone, Carroll, 3,471,134.
Enk, Albert T., 3,464,683.
Floehr, Walter L., 3,425,748.
Floehr, Walter L., 3,433,178.
Floehr, Walter L., 3,439,957.
Floehr, Walter L., 3,440,761.
Floehr, Walter L.; Hipp, James D.; and May, Ronald W., 3,450,064.
Floehr, Walter L., 3,450,065.
Floehr, Walter L., 3,455,253.
Floehr, Walter L., 3,472,178.
Floehr, Walter L., 3,485,183.
Gaglione, Alfonso T.; Marvin, Harry N.; and Wyrough, David J., 3,442,480.
Gedris, Algis E.; Weber, Hans B.; and Brown, Joseph, 3,461,815.
Glaser, Paul W.; and Boynton, Ira Dana, 3,425,571.
Hazel, Beverly S.; and Bakker, Lubertus, 3,468,421.
Ingram, Orville; and Floehr, Walter L., 3,439,956.
Kohn, Herbert M., 3,481,680.
Kottick, Gene John, 3,461,569.
Kovacs, Lloyd, 3,484,897.
Mayner, Thomas S., 3,453,690.
Mc Lellan, Kenneth M., 3,442,429.
Metzger, William J.; and De Penti, Kenneth L., 3,433,369.
Metzger, William J.; and De Penti, Kenneth L., 3,438,512.
Metzger, William J., 3,450,273.
Montagino, Joseph, 3,484,085.
Munson, Ralph E., 3,486,465.
Nesbitt, John D., 3,463,467.
Rahm, Howard E.; and Brimmer, David L., 3,423,268.
Rinker, Franklin G.; and Gregg, Hendrick J., 3,455,561.
Roussos, Nicholas P., 3,445,081.
Schnitzspahn, Emil, 3,433,429.
Shafer, James A., 3,450,063.
Shafer, James A., 3,473,854.
Stuart, Guy E., Jr.; and De Vine, Barry F., 3,431,678.
Swanson, Kenneth B., 3,453,029.
Thome, William Leonard, 3,446,273.
Trachtenberg, Robert S.; and Kreuzer, Julius Earl, 3,428,284.
Trachtenberg, Robert S., 3,472,945.
Urbas, John C.; and Elnicki, Walter J., 3,462,851.
Waechter, Charles J.; and Kovacs, Lloyd, 3,444,604.
Weber, Hans B.; and Brown, Joseph, 3,461,814.
Wilkins, William Burdette; and Wyrough, David J., 3,481,808.
Wyrough, David J., 3,451,365.
Midlands Gas Board, The: *See—*
Johnson, Ernest James, 3,453,708.
Mido, Kiyoshi W. Rotary combustion engines. 3,422,801, 1-21-69, Cl. 123-14.
Midway Fishing Tool Company: *See—*
States, William H., 3,468,375.
Midwesco-Enterprise, Inc.: *See—*
Hirschhorn, Harry J.; and Rachford, John G., 3,433,943.
Unger, David; and Sabala, Ronald A., 3,465,783.
Midwest Canvas Corporation: *See—*
Handwerker, Gary R., 3,480,069.
Midwest Chemical & Processing Co., Inc.: *See—*
Everhart, Clifford R.; and Cary, Audra B., 3,437,146.
Midwest Chemical & Processing Co., Inc.: *See—*
Everhart, Clifford R.; and Midwest Chemical & Processing Co., Inc.,3,445,400.
Midwest Research & Development Corporation: *See—*
Wood, Charles P., Jr., 3,435,631.
Wood, Charles P., Jr., 3,457,684.
Midwest Research Institute: *See—*
Benson, David K., 3,480,918.
Bossert, Alfred J., Jr., 3,438,259.
Midwestern Equipment Co., Inc.: *See—*
Riesbeck, Laverne J.; and Blackwell, Willis A., 3,463,315.
Midwestern Instruments, Inc.: *See—*
Harrison, Wayne E.; and Jatras, Stephen J., 3,471,863.
Harrison, Wayne E.; and Jatras, Stephen J., 3,482,254.
Miederer, Walter; and Kuttner, Hilmar, to Siemens Aktiengesellschaft. Production of hydrides of elements of group V of the periodic system. 3,428,428, 2-18-69, Cl. 23-204.
Miegel, Herbert E., to Reichhold Chemicals Inc. Apparatus for exothermic catalytic reactions. 3,482,948, 12-9-69, Cl. 23-288.
Miehle-Goss-Dexter, Incorporated: *See—*
Bohman, Carl E., 3,448,686.
Hermach, Carl J.; and Tafel, Leonard, 3,425,348.
Pasquinelli, Bruno B., 3,442,506.
Sipin, Richard F., 3,473,469.
Stoothoff, Stanley T., 3,445,107.
Thumim, Carl; Herman, Nicholas; and Des Jardins, James, 3,424,044.
Miekka, Richard G.: *See—*
Oster, Eugene A.; Miekka, Richard G.; and Maget, Henri J. R.,3,423,228.
Mielbeck, Roger L.: *See—*
Flegel, George J.; and Mielbeck, Roger L.,3,435,467.
Miele, Anthony. Clothes hangers. 3,433,397, 3-18-69, Cl. 223-91.
Miele, Anthony. Multidirectional nonoscillating electric fans. 3,486,831, 12-30-69, Cl. 415-119.
Mielenz, Richard C.: *See—*
Kelly, Thomas M.; Mielenz, Richard C.; and Peppler, Richard B.,3,432,317.
Mielke, Johannes; and George, Rudolf, to Hauni-Werke Koerke Koerber & Co. K.G. Machine for wrapping cigar fillers or the like. 3,461,881, 8-19-69, Cl. 131-59.
Mielke, Lloyd L. Safety pivot connection. 3,467,422, 9-16-69, Cl. 287-100.
Mielke, Lloyd L. Safety pivot connection. 3,468,570, 9-23-69, Cl. 287-100.
Mier, Gerhard, to Swiss Aluminium Ltd. Unwinding apparatus. 3,421,710, 1-14-69, Cl. 242-75.47
Miermans, Guy Jean Martin. Aerial projectile target game with spin imparting projector. 3,467,383, 9-16-69, Cl. 273-101.
Miersch, Siegfried: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Mierson, Augustus. Bag dispenser. 3,456,842, 7-22-69, Cl. 221-33.
Mierson, Augustus. Bag dispensing case. 3,482,734, 12-9-69, Cl. 221-63.
Mies, Clifford A. Photoelectric actuator. 3,447,462, 6-3-69, Cl. 102-8.
Miescher, Guido M., to Commercial Solvents Corporation. Process for the production of polysaccharide gum polymers. 3,455,786, 7-15-69, Cl. 195-31.
Mieslinger, Winfried, to Gebruder Buhler Nackfolger G.m.b.H. Control circuit for a commutatorless D.C. motor. 3,475,668, 10-28-69, Cl. 318-138.
Miessler, Paul W., Sr., to Flintkote Company, The. Separable fastener. 3,465,636, 9-9-69, Cl. 85-37.
Mietens, Gerhard: *See—*
Gabler, Hellmut; and Mietens, Gerhard,3,484,282.
Mifuji Iron Works Co., Ltd.: *See—*
Imai, Orio; Usuba, Yoshiro; and Ito, Shozo, 3,446,493.
Mifune, Keiji: *See—*
Komai, Yoshiaki; Yoshino, Zenichi; Miyazaki, Yasunobu; Uematsu, Shigeru; and Mifune, Keiji,3,446,664.
Migdol, Norman R.: *See—*
Mahlmann, James P.; Migdol, Norman R.; and Kaleda, William W.,3,421,901.
Migdol, Norman R.; and Biskup, John. Cellular foam composition and process for its preparation. 3,433,700, 3-18-69, Cl. 161-160.
Mighton, Perceptimus J. Pressure actuated switch. 3,444,341, 5-13-69, Cl. 200-82.
Migitaka, Masatoshi, to Hitachi, Ltd. Reverse biased semiconductor laser light modulator fabricated from same material as laser light source. 3,458,703, 7-29-69, Cl. 250-199.
Migitaka, Masatoshi: *See—*
Yanai, Hisayoshi; Kodera, Hiroshi; and Migitaka, Masatoshi,3,476,942.
Mignano, Anthony O. Signal for attachment to signal halyard. 3,470,845, 10-7-69, Cl. 116-114.
Mignone, Albert E., to Addressograph-Multigraph Corporation. Master making and duplicating machine. 3,451,336, 6-24-69, Cl. 101-132.5
Mignot, Noel Henri Marie; and Stahl, Andre Robert Raymond, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques, de Telecommunications et d'Electronique 'Alcatel'. Amagnetic cryogenic motor. 3,467,841, 9-16-69, Cl. 310-10.
Mihaiu, Traian: *See—*
Moldovan Velniceriu, Adrian; and Mihaiu, Traian,3,467,689.

Mihajlov, Vsevolod S., to Xerox Corporation. Apparatus for continuous photoelectrophoretic imaging. 3,427,242, 2-11-69, Cl. 204-300.
Mihajlov, Vsevolod S.: *See*—
Stein, Ira S.; Tulagin, Vsevolod; and Mihajlov, Vsevolod S.,3,446,722.
Mihal, Frederick France, to American Cyanamid Company. Halogen-containing elastomers vulcanized with sulfur and a salt of a carboxylic acid. 3,458,461, 7-29-69, Cl. 260-23.
Mihalich, Donald L., to Lock Cap Corporation. Fire hydrant cap and key. 3,456,463, 7-22-69, Cl. 70-168.
Mihalik, Nandor: *See*—
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor,3,471,882.
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor,3,480,359.
Mihalisin, John R.: *See*—
Bieber, Clarence G.; and Mihalisin, John R.,3,485,620.
Mihaly, Sandor, to Licencia Talalmanyoka Ertekesito. Lyophilizing method and equipment. 3,470,627, 10-7-69, Cl. 34-92.
Mihara, Kazuhiko; and Yamashiki, Takashi. Utilization of sea water. 3,466,139, 9-9-69, Cl. 23-42.
Mihara, Kazuhiko; Yamashiki, Takashi; and Takano, Mitsuo, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for maintaining the transfer amount of solid particles in a continuous solid-liquid contact apparatus at a constant level and apparatus therefor. 3,432,429, 3-11-69, Cl. 210-33.
Mihara, Kzauhiko; and Kato, Masaaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Polarity reversing electrode units and electrical switching means therefor. 3,453,201, 7-1-69, Cl. 204-301.
Mihara, Yoshihisa: *See*—
Kudo, Shiro; Mihara, Yoshihisa; Adachi, Taiichi; Tsurugi, Shinichi; Usuku, Tomoatsu; and Wada, Isamu,3,476,796.
Kudo, Shiro; Mihara, Yoshihisa; and Yada, Seiichi,3,449,435.
Mihelick, Joseph R.: *See*—
Metheny, Larry J.; and Mihelick, Joseph R.,3,482,651.
Mihills, Kenneth D., to Clark Equipment Company. Produce case shelf assembly. 3,481,484, 12-2-69, Cl. 211-126.
Mijovic, Miroslav V.: *See*—
Bright, Alan; Mijovic, Miroslav V.; and Saunders, David G.,3,475,172.
Knott, Edward B; Mijovic, Miroslav V; and Saunders, David George,3,434,837.
Mika, Abraham, to Motorola, Inc. Printed circuit fabrication. 3,427,715, 2-18-69, Cl. 29-626.
Mika, Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of catalysts supported on carriers of large dimensions. 3,448,061, 6-3-69, Cl. 252-456.
Mikacljan, Spartak: *See*—
Melkonjan, Gagik; Mikacljan, Spartak; Elias, Jiri; Tyl, Miloslav; and Musil, Petr,3,452,209.
Mikailoff, Serge; Peronneau, Georges; and Floret, Felix, to Thomson Informatique & Visualisation T.I.V. Digital code extractor. 3,466,614, 9-9-69, Cl. 340-172.5
Mikailoff, Serge: *See*—
Floret Felix; Mikailoff, Serge; and Peronneau, Georges,3,466,608.
Mikami, Ichiro: *See*—
Murase, Tamotsu; Mikami, Ichiro; and Tamura, Moriyosi,3,479,399.
Mike Console: *See*—
Mazzei, Gene L.; and Pokriots, Wilford Lewis, 3,435,487.
Mikels, Frederick C. Digging head for water collector pipe. 3,431,991, 3-11-69, Cl. 175-400.
Mikeska, Vladis P. Ignition point heat absorber. 3,466,412, 9-9-69, Cl. 200-166.
Miki, Eiji, to Xerox Corporation. Phase comparator circuit for providing varying width signal which is a function of phase difference and angle of two input signals. 3,430,148, 2-25-69, Cl. 328-133.
Miki, Ikuo: *See*—
Katsuta, Kihei; Shimasaki, Yoshikatsu; and Miki, Ikuo,3,452,870.
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi,3,426,904.
Oka, Tanchiko; Miki, Ikuo; and Kawahara, Takao,3,421,639.
Miki, Osamu, to Daiwa Can Co., Ltd. Integral opener and closure. 3,454,190, 7-8-69, Cl. 220-54.
Miki, Tosaku: *See*—
Naito, Takeo; Okano, Atsuji; and Miki, Tosaku,3,449,411.
Mikkelsen, Arne, to Danfoss A/S. Safety valve for hydraulic system. 3,473,443, 10-21-69, Cl. 91-437.
Mikkelsen, Hans. Brush holder. 3,471,889, 10-14-69, Cl. 15-179.
Miklas, John. Event indicator. 3,431,885, 3-11-69, Cl. 116-135.
Miklos, Arpad. Handling of cameras or the like. 3,447,442, 6-3-69, Cl. 95-86.
Miklos, Joseph A.: *See*—
Koch, Robert L.; Thomas, Earl F.; Miklos, Joseph A.; and Curry, William H.,3,426,423.
Miklos, Zoltan W.; and Billson, John A., to General Electric Company. Coiled filament forming apparatus. 3,454,053, 7-8-69, Cl. 140-71.5
Miklya, John. Connector. 3,436,105, 4-1-69, Cl. 285-321.
Miknaitis, Sigitas: *See*—
Hartz, Joseph M.; Miknaitis, Sigitas; and Vogel, Carl W.,3,435,160.
Miko, Albert J., to Reliance Electric and Engineering Company, The. Dynamoelectric machine with junction box on yoke and end bell. 3,445,698, 5-20-69, Cl. 310-71.
Mikoda, Masanari; Hikino, Tadashi; and Kuroda, Takayuki, to Matsushita Electric Industrial Co., Ltd. Vitreous ceramic compositions. 3,421,916, 1-14-69, Cl. 106-53.
Mikofalvy, Bela K., to Goodrich, B. F., Company, The. Alkyl acrylate latices. 3,457,209, 7-22-69, Cl. 260-29.6
Mikolic, Charles R.; and Burton, Lawrence A., to Allis-Chalmers Manufacturing Company. Electromagnetic contactor having cam means for operating auxiliary switch. 3,435,389, 3-25-69, Cl. 335-121.
Mikolyczyk, Edward C.: *See*—
Armstrong, Kirk R.; Mikolyczyk, Edward C.; and Nelson, Carl S.,3,463,408.
Mikos, Michal Mikos: *See*—
Brzozowski, Wojciech; Mikos, Michal Mikos; and Niewiadomski, Janusz,3,449,505.
Mikoshiba, Tomoyoshi; Suzuki, Yasuo; and Ishizawa, Shingo, to Hitachi, Ltd. Electrolytic shaping apparatus with CdS surfaced electrode. 3,476,674, 11-4-69, Cl. 204-224.
Mikrowa Fein-und Schnellwaagen AG.: *See*—
Appius, Max, 3,439,762.
Appius, Max, 3,461,987.
Miksch, Edmond S. Vortex generator for airplane wing. 3,463,418, 8-26-69, Cl. 244-41.
Miksitz, Frank J., to Mench & Miksits Research & Mfg. Company, Inc. Vane control for air classifier. 3,441,133, 4-29-69, Cl. 209-139.
Mikulecky, Harvey W., to McGraw-Edison Company. Current limiting fuse. 3,437,971, 4-8-69, Cl. 337-158.
Mikulecky, Harvey W., to McGraw-Edison Company. Current limiting fuse. 3,483,502, 12-9-69, Cl. 337-244.
Mikulecky, Karel: *See*—
Boucek, Miroslav; Pospisil, Frantisek; Elias, Jiri; Tyl, Miloslav; and Mikulecky, Karel,3,462,936.
Mikuls, Antons, to Roberts-Gordon Appliance Corporation. Valve with adjustable stop and clamp for stem. 3,460,800, 8-12-69, Cl. 251-101.
Mikus, Clifford A.: *See*—
Curtze, Edward W.; Huffman, Charles O.; and Mikus, Clifford A.,3,424,357.
Mikus, Felix F.: *See*—
Toma, Sam Z.; Mathers, James E.; and Mikus, Felix F.,3,424,692.
Mil-An Mfg. Corp.: *See*—
Schaaf, Robert W., 3,426,510.
Milab Incorporated: *See*—
Levy, Donald; Rusz, Tibor; and Szekely, Steven M., 3,465,753.
Milan, Henry J.; and Hauser, William G., to Singer Company, The. Pivoted bracket. 3,437,300, 4-8-69, Cl. 248-291.
Milani, Humbert, 33 1/3 to Milani, Louis F. Match package. 3,452,860, 7-1-69, Cl. 206-20.
Milani, Louis F.: *See*—
Milani, Humbert, 3,452,860.
Milano, James: *See*—
Kalil, James; and Milano, James,3,454,589.
Milano, Mario: *See*—
Portolani, Augusto; Di Giulio, Enzo; and Milano, Mario,3,427,183.
Milanowski, Floyd J., to United States of America, Army. Delay arming mechanism. 3,453,961, 7-8-69, Cl. 102-79.
Milas, Nicholas A., to Massachusetts Institute of Technology. Peroxides and peroxy esters and their preparation in the presence of triphenyl phosphine oxide. 3,458,557, 7-29-69, Cl. 260-453.
Milauskas, Albert T. Orbital implant of fused acrylic plastic and process of implanting. 3,436,763, 4-8-69, Cl. 3-13.
Milberger, Ernest C.: *See*—
Callahan, James L.; and Milberger, Ernest C.,3,472,892.
Callahan, James L.; Milberger, Ernest C.; and Grasselli, Robert K.,3,427,343.
Milberger, Lionel J.: *See*—
Dunlap, Wayne A.; Milberger, Lionel J.; and Snow, Tommy L.,3,461,717.
Milberger, Walter E.; and Ottobre, Louis G., to United States of America, Navy, mesne. Video gating circuit. 3,449,596, 6-10-69, Cl. 307-257.
Milbert, Gerard; and Pagni, Georges, to Rhone-Poulenc S.A. Preparation of organosiloxanes by the reaction of organosilicon hydrides with organosilanols. 3,467,685, 9-16-69, Cl. 260-448.2
Milbourne, Benjamin K., Sr., to Cortina West, Inc. Pleated curtain wall. 3,485,287, 12-23-69, Cl. 160-235.

Milbourne, Charles Gordon; and Pinkston, John T., Jr., to United Engineering & Constructors, Inc. Manufacture of combustible gas. 3,420,641, 17-69, Cl. 48-213.
Milbourne, Charles Gordon; and Pinkston, John T., Jr., to United Engineering & Constructors Inc. Process and apparatus for manufacturing gas rich in hydrogen and in oxides of carbon. 3,429,678, 2-25-69, Cl. 48-196.
Milbourne, Charles Gordon: *See—*
Pinkston, John T., Jr.; and Milbourne, Charles Gordon,3,429,677.
Milbourne, Robert J.: *See—*
Addinall, Ramon Leonard; and Milbourne, Robert J.,3,442,608.
Milbrandt, Ervin A., to Lisbon Industries, Inc. Portable heater. 3,438,363, 4-15-69, Cl. 126-9.
Milch, Alfred; Lalak, Joseph J.; and Ahlert, Richard H., to North American Philips Company, Inc. Method of forming ceramic-to-metal seal. 3,438,118, 4-15-69, Cl. 29-472.9
Milchem Incorporated: *See—*
Browning, William C., 3,441,504.
Cox, William A., 3,482,634.
Mildh, Gosta, to Aktiebolaget Svenska Flaktfabriken. Method of discharging dust precipitated in an electrostatic precipitator. 3,461,650, 8-19-69, Cl. 55-12.
Mildice, James W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,435,246.
Mildner, Raymond C., to Dow Chemical Company, The. Conductor with insulating layer of paper fibers and hollow plastic particles. 3,480,725, 11-25-69, Cl. 174-124.
Mildwater, John: *See—*
Calvert, Raymond; and Mildwater, John,3,474,335.
Mildwater, John, to Kerr, Wayne, Company Limited, The. Means for eliminating the effects of resistances in electrical measuring apparatus. 3,443,222, 5-6-69, Cl. 324-64.
Milenkovic, Veljko, to American Machine & Foundry Company. Single channel programmed tape motor control for machine tools. 3,460,044, 8-5-69, Cl. 328-134.
Miler, Kazimier; and Kozlowski, Zbigniew. Method of producing a smoke-preparation. 3,445,248, 5-20-69, Cl. 99-229.
Miles, Cecil W., to Green Bay Research Corporation. Engine vapor recycling. 3,450,114, 6-17-69, Cl. 123-119.
Miles, Charles E., to Monsanto Company. Laminates bonded with an ethylene/crotonic acid copolymer salt. 3,475,267, 10-28-69, Cl. 161-203.
Miles, Chester W., to Kelsey-Hayes Company. Pad clip for disk brakes. 3,485,325, 12-23-69, Cl. 188-73.
Miles, Cleve Zane. Vehicle seat convertible to a bed or couch. 3,473,840, 10-21-69, Cl. 296-69.
Miles, Clifford V.; and Garrett, John M., to Westinghouse Brake and Signal Company Limited. Controlled rectifier semiconductor device. 3,476,989, 11-4-69, Cl. 317-235.
Miles, F. G., Engineering Limited: *See—*
Wadlow, Roy Sidney; and Walker, Francis Ian Victor, 3,451,276.
Miles, Gilbert Dewayne, to Colgate-Palmolive Company. Package and receptacle. 3,450,254, 6-17-69, Cl. 206-46.
Miles, Glynn A.: *See—*
Emmerson, Arthur F.; and Miles, Glynn A.,3,435,981.
Miles, Harry E., Jr.; and Wright, Dale W., to Miles Machinery Company, mesne. Shaft end machining method and machine tool. 3,479,735, 11-25-69, Cl. 29-558.
Miles, Harry V., II, to Dorr-Oliver Incorporated. Thermal self-sustaining system for spent pulping liquors. 3,463,216, 8-26-69, Cl. 159-47.
Miles, John H.: *See—*
Bittman, Jess C.; and Miles, John H.,3,443,605.
Miles, John J., Jr.; Pader, Morton; and Thompson, Stuart W., to Lever Brothers Company. Whippable topping mix. 3,423,211, 1-21-69, Cl. 99-139.
Miles Laboratories, Inc.: *See—*
Adams, Ernest Clarence, Jr.; and Yoder, John Menley, 3,453,363.
Atkinson, Roger Lee; and Fader, Marshall Lloyd, 3,438,737.
Barton, Richard Russell, 3,483,090.
Batti, Mario Alexander, 3,438,863.
Borchert, Peter Jochen, 3,479,128.
Christensen, Verle W., 3,483,087.
Clemens, Anton Hubert, 3,447,478.
Csizmas, Louis L.; and Patel, Virendra, 3,480,400.
Csizmas, Louis L.; and Patel, Virendra, 3,482,943.
Fancher, Otis Earl; and Hayao, Shin, 3,455,935.
Hansen, Robert William, 3,424,654.
Harvill, Edward K.; and Shrawder, Elsie J., 3,427,225.
Harvill, Edward K.; and Shrawder, Elsie J., 3,461,036.
Havera, Herbert John, 3,475,414.
Havera, Herbert John, 3,475,416.
Hayao, Shin, 3,453,285.
Johnson, Leighton Clifford, 3,460,417.
Keston, Albert S., 3,485,587.
Kreiser, Thomas Harry, 3,433,782.
Law, Harry D., 3,472,626.
McCormick, James Benjamin; and Johnson, Leighton Clifford, 3,431,886.
Morison, Ayers, 3,420,205.
Ostrowsky, Efrem M., 3,467,286.
Pangier, Douglas John, 3,469,993.
Rupe, Chauncey Orvis, 3,447,904.
Schut, Robert Norman, 3,480,633.
Shand, Aeneas J., 3,446,599.
Shand, Aeneas J., 3,447,905.
Slager, James Edward, 3,475,299.
Staal, Philip Ward, 3,424,659.
Staal, Philip Ward, 3,475,300.
Sternberg, Moshe, 3,483,084.
Sternberg, Moshe, 3,483,085.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D., 3,421,457.
Van Dyke, John William, Jr., 3,470,197.
Yoder, John Menley; and Adams, Ernest Clarence, Jr., 3,446,598.
Miles Machinery Company: *See—*
Miles, Harry E., Jr.; and Wright, Dale W., 3,479,735.
Wright, Dale W., 3,461,617.
Miles, Russel T.; and Anderson, Philip R., deceased0 (by Reddie, William; executor), to Corinthian Cornice Systems, Inc. Soffit closure assembly. 3,440,778, 4-29-69, Cl. 52-94.
Miles, Sydney F.: *See—*
Charter, Ian G.; Miles, Sydney F.; and Bailey, Christopher E. G.,3,422,258.
Miles, Wallace J.: *See—*
Gibbs, Dale S.; Miles, Wallace J.; and Kochaney, Eugene,3,468,703.
Miles, Wallace J.; Lapham, Rodger J.; and Hahn, Harold G., to Dow Chemical Company, The. Homogeneous copolymers of vinylidene chloride and vinyl chloride and coatings therefrom. 3,431,228, 3-4-69, Cl. 260-32.8
Miles, Wilbur N.: *See—*
Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N.,3,434,376.
Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N.,3,454,283.
Milette, Kenneth A.; and Samhammer, Clair A., to Samsonite Corporation. Hanger for coats and the like. 3,477,623, 11-11-69, Cl. 223-88.
Milette, Kenneth A.; and Uyeda, Tim M., to Samsonite Corporation. Retractable handles for luggage cases. 3,438,467, 4-15-69, Cl. 190-58.
Milewski, Andrze, to International Business Machines Corporation. Path finding apparatus for switching network. 3,462,743, 8-19-69, Cl. 340-172.5
Milewski, John V.: *See—*
Shyne, James J.; and Milewski, John V.,3,421,851.
Shyne, James J.; Milewski, John V.; and Smith, Charles B.,3,421,862.
Milewski, John V., to General Technologies Corporation. High-strength single crystal whisker paper composites and laminates. 3,476,641, 11-4-69, Cl. 161-170.
Milewski, Victor; and Yogus, William, to Valeron Corporation, The. Adjustable dovetail boring bar. 3,433,104, 3-18-69, Cl. 77-58.
Miley, Clare C. Engine silencer and smoke elimination system. 3,449,907, 6-17-69, Cl. 60-31.
Miley, Richard Erwin, to Deere & Company. Control linkage for variable speed belt drive. 3,470,757, 10-7-69, Cl. 74-230.17
Milford, Richard E., to General Electric Company. Data receiving and transmitting system. 3,427,585, 2-11-69, Cl. 340-146.1
Milford, Richard E., to General Electric Company. Data communication system employing an asynchronous start-stop clock generator. 3,430,204, 2-25-69, Cl. 340-172.5
Milford, Richard E., to General Electric Company. Photocell amplifier. 3,474,251, 10-21-69, Cl. 250-214.
Milgo Electronic Corporation: *See—*
Boyce, David B.; Minicucci, Peter, Jr.; and Stegenga, Jerry A., 3,446,328.
Jackson, Albert S., 3,422,257.
Miller, Monroe A., 3,470,362.
Miller, Monroe A., 3,483,454.
Stegenga, Jerry A., 3,453,648.
Whang, Sang Y.; Bleckner, Edward, Jr.; Weiss, Burton J.; and Payne, Paul E., 3,453,552.
Milgram, Arthur; and Siegel, Sidney. Central heating and cooling system. 3,472,313, 10-14-69, Cl. 165-22.
Milgrom, Jack, to General Tire & Rubber Company, The. Double metal cyanide complex compounds. 3,427,256, 2-11-69, Cl. 252-431.
Milhaupt, Howard A.; and Henning, Donald S., to Winnemann, Carl W. Transparency projecting accessory. 3,438,702, 4-15-69, Cl. 353-35.
Miliaras, Emmanuel Stephen. Increased vapor generator output feature. 3,485,048, 12-23-69, Cl. 60-70.

Milionis, Jerry Peter; and Susi, Peter Vincent, to American Cyanamid Company. Useful infrared absorbing substances for plastics or glass. 3,485,650, 12-23-69, Cl. 106-168.
Militana, Frank A. Toothed wheel with replaceable toothed segments. 3,439,551, 4-22-69, Cl. 74-243.
Militano, Vincent S., to Finkel Outdoor Products, Inc. Furniture web. 3,476,169, 11-4-69, Cl. 160-327.
Militello, James V., to American Allsafe Company, Inc. Sweatband. 3,466,664, 9-16-69, Cl. 2-171.
Militello, James V., to American Allsafe Company. Welding goggles with removable protective lens cover. 3,484,156, 12-16-69, Cl. 351-44.
Militzer, Robert W.: *See—*
Czubak, Albin S.; and Militzer, Robert W.,3,456,402.
Milke, Eberhard: *See—*
Topfer, Heinz; and Milke, Eberhard,3,457,384.
Milks, John Edward, to Arizona Chemical Company. N-(2,3-Dihydroxypropyl)aliphatic amides and method for preparing the same. 3,439,007, 4-15-69, Cl. 260-404.
Milks, John Edward; and Conroy, Natalie Hetman, to Arizona Chemical Company. Two stage polymerization of unsaturated fatty acids. 3,422,124, 1-14-69, Cl. 260-407.
Milks, John Edward; and Scharrer, Roland Pierre, to Arizona Chemical Company. Preparation of linalyl esters. 3,439,024, 4-15-69, Cl. 260-489.
Mill & Factory Supply Company: *See—*
Parachek, Ralph A., 3,421,265.
Millane, James J., to Bakelite Xylonite Limited. Polymer compositions containing basic magnesium carbonate. 3,468,839, 9-23-69, Cl. 260-38.
Millar, Bryan, to Associated Electrical Industries Limited. Digital-to-analog for control systems. 3,483,552, 12-9-69, Cl. 340-347.
Millar, Clive C., to Ford Motor Company. Motor vehicle steering assemblies. 3,468,181, 9-23-69, Cl. 74-492.
Millar, Gordon Halstead, to Deere & Company. Wheel rake. 3,452,529, 7-1-69, Cl. 56-377.
Millar, Ian David Balfour: *See—*
Allen, Cyril Joseph; Bliss, John Llewelyn; and Millar, Ian David Balfour,3,443,024.
Millar, John J., to Scott & Williams, Incorporated. Knitting machines. 3,457,734, 7-29-69, Cl. 66-42.
Millar, John J., to Scott & Williams, Incorporated. Knitting methods and machines. 3,457,735, 7-29-69, Cl. 66-42.
Millar, John J., to Scott & Williams, Incorporated, mesne. Knitted products. 3,457,737, 7-29-69, Cl. 66-178.
Millard Brothers Limited: *See—*
Fisher, Colin Hordley, 3,464,399.
Millard, George R.: *See—*
Bidelman, Bruce B.; Maurer, Max L.; Lawler, Jack; and Millard, George R.,3,462,143.
Millard, Raymond L.; and Tschannen, Arthur W., to Coors, Adolph, Company, mesne. Plastic bung for a beer barrel. 3,438,531, 4-15-69, Cl. 217-110.
Millard, Roy H.: *See—*
Marks, Ronald H.; Goodman, Lawrence R.; Stokes, Luther E.; and Millard, Roy H.,3,446,041.
Millen, Edward G., to Thiokol Chemical Corporation. Organo-silane modified polysulfide polymers as adhesive additives or primers for high rank polysulfide based adhesive compositions. 3,476,826, 11-4-69, Cl. 260-824.
Millen, Edward G.; and Koons, Paul A., to Thiokol Chemical Corporation. Benzothiazole-2-sulfenamide type cure accelerators for mercapto polymers. 3,487,052, 12-30-69, Cl. 260-79.
Millen, Fred S. Vehicle ignition switch. 3,485,969, 12-23-69, Cl. 200-44.
Millen, John P.: *See—*
Balasch, Peter; and Millen, John P.,3,483,590.
Millen, Wayne E. Fire extinguishers. 3,474,769, 10-28-69, Cl. 123-198.
Millendorf, Alfred J.; and Oberender, Frederick G., to Texaco Inc. Method of preparing metal dihydrocarbyl dithiophosphates. 3,428,662, 2-18-69, Cl. 260-429.9
Miller, Aaron; and Rocks, James K., to Kelco Company. Algin gel compositions and method. 3,455,701, 7-15-69, Cl. 99-131.
Miller, Albert A., to Miller, Wilson, and Company Limited. Multi-speed epicyclic gearboxes. 3,482,470, 12-9-69, Cl. 74-758.
Miller, Alfred G.; and LoDolce, Samuel M., to Potdevin Machine Co. Apparatus for applying edging tape to the edge of a workpiece. 3,468,741, 9-23-69, Cl. 156-446.
Miller, Alfred H.; Perry, Glenn; and Wheat, Lawrence C., to Libbey-Owens-Ford Glass Company. Apparatus for treating plastic sheets. 3,421,180, 1-14-69, Cl. 18-4.
Miller, Alfred J.; Hinschlager, Rudolf F.; Allan, Stewart; and Weidner, William C., to Union Carbide Corporation. Self-sizing thermochemical scarfing apparatus with scarfing unit locking means. 3,462,135, 8-19-69, Cl. 266-23.
Miller, Allen H.: *See—*
Brothman, Abraham; Halpern, Stephen J.; Reiser, Richard D; Cuddeback, Bruce A.; and Miller, Allen H.,3,449,716.
Miller, Alvin E. Interlock space saving containers. 3,462,062, 8-19-69, Cl. 229-8.
Miller, Alvin. Electronic racing game. 3,423,091, 1-21-69, Cl. 273-86.
Miller, Alwin M.: *See—*
Wolfe, Wayne F.; Miller, Alwin M.; and Miller, Roland,3,442,401.
Miller, Arnold W. High repeatability switch. 3,482,071, 12-2-69, Cl. 200-152.
Miller, Arnold, to North American Rockwell Corporation. Process and product for confining hydrogen gas. 3,452,503, 7-1-69, Cl. 53-5.
Miller, Arthur F.; and Salehar, Milena L., to Standard Oil Company, The (Ohio). Process for the recovery of ammonium salts from waste streams in an acrylonitrile plant. 3,468,624, 9-23-69, Cl. 23-119.
Miller, Arthur J.: *See—*
Campbell, John M.; and Miller, Arthur J.,3,476,487.
Miller, Arthur T.: *See—*
Albers, Walter R.; and Miller, Arthur T.,3,438,492.
Garber, Thomas; Miller, Arthur; and Kelch, David E.,3,421,106.
Miller, Arthur; and Levin, Morton H., to Hewlett-Packard Company. Direct current amplifier. 3,423,689, 1-21-69, Cl. 330-69.
Miller, Avy L., to Teledyne, Inc. Compact high capacity gas burner. 3,446,566, 5-27-69, Cl. 431-349.
Miller, Barry E.; and Foster, John E., to United States of America, Army, mesne. Pyrotechnic/mechanical release device. 3,442,474, 5-6-69, Cl. 244-147.
Miller, Bernard J. Sensing probe with metallic coating. 3,475,960, 11-4-69, Cl. 73-304.
Miller, Bernard; and Margulies, Howard, to American Cyanamid Company. Phosphonylvinyl phosphates. 3,476,834, 11-4-69, Cl. 260-931.
Miller, Bernard; and Margulies, Howard, to American Cyanamid Company. Para-thiocarbamoylphenyl phosphorothioates. 3,480,697, 11-25-69, Cl. 260-944.
Miller Brewing Company: *See—*
Nakayama, Tommy; and Westermann, Donald H., 3,433,642.
Miller Brothers: *See—*
Miller, Norman K., 3,462,885.
Miller, Bruce J.: *See—*
Yanishevsky, Gilbert; Miller, Bruce J.; and Savinese, Stanley J.,3,479,553.
Miller, Bruno H. Method of and apparatus for extracting bitumen. 3,472,553, 10-14-69, Cl. 299-5.
Miller, C. David; Soodak, Charles; and Priarone, Paul, to American Instrument Co., Inc. Hydrogen-entrained air total consumption aspirator burner. 3,430,864, 3-4-69, Cl. 239-424.
Miller, Carl L., Jr.; and Miller, Robert G., Jr., to Teltron, Inc. Shipping receptacle. 3,437,256, 4-8-69, Cl. 229-23.
Miller, Carl S.: *See—*
Clark, Bryce L.; and Miller, Carl S.,3,481,760.
Miller, Carlton S.; and Parsons, Frederick G., to Technical Operations, Incorporated. Microdensitometer. 3,424,534, 1-28-69, Cl. 356-203.
Miller, Carroll D.: *See—*
Futrell, Jean H.; Abramson, Fred P.; and Miller, Carroll D.,3,487,208.
Miller, Charles A., Jr.; Masaschi, Joseph B.; and Miller, Robert W., Jr., to Filterite Corporation. Microfilter unit. 3,471,028, 10-7-69, Cl. 210-457.
Miller, Charles E.; and Garrett, William R., to Smith Industries International Inc. Automatic driller. 3,463,252, 8-26-69, Cl. 175-27.
Miller, Charles Fredrick. Micro-positioner. 3,474,685, 10-28-69, Cl. 74-491.
Miller, Charles Fredrick; and Zenker, Raymond O., to Sola Basic Industries, Inc. Apparatus to sever wire bonded to semiconductor devices. 3,448,910, 6-10-69, Cl. 228-3.
Miller, Charles Fredrick; Zenker, Raymond O.; and Durant, Bobby G., to Sola Basic Industries, Inc. Apparatus for effecting bonding of semi-conductor parts. 3,451,607, 6-24-69, Cl. 228-1.
Miller, Charles H., Jr.: *See—*
Hurtner, Thomas A.; and Miller, Charles H., Jr.,3,486,204.
Miller, Charles Hartley, Jr., to American Cyanamid Company. Plastic laminates. 3,458,391, 7-29-69, Cl. 161-189.
Miller, Charles P., to Univis Inc. Ultrasonic hinge sinking apparatus. 3,431,593, 3-11-69, Cl. 18-1.
Miller, Charles R.: *See—*
Adams, Cecil E.; Griffith, Randall E.; Miller, Charles R.; and Wilcox, Jack W.,3,481,276.
Falconbridge, John L.; and Miller, Charles R.,3,455,044.
Miller, Charles R., to Ashland Oil & Refining Company. Rustproofing compositions. 3,434,851, 3-25-69, Cl. 106-14.
Miller, Clair Eugene, to Dohrmann Instruments Company. Dual MOS-FET chopper-summer circuit in a closed loop servo. 3,454,850, 7-8-69, Cl. 318-18.
Miller, Clarence J. Wall construction. 3,468,088, 9-23-69, Cl. 52-250.
Miller, Clarence John, to General Electric Company. Fluxless aluminum brazing furnace. 3,460,816, 8-12-69, Cl. 266-5.

Miller, Clark O.; and Dorer, Casper J., Jr., to Lubrizol Corporation, The. Nitrogen- and phosphorus-containing gasoline compositions. 3,427,141, 2-11-69, Cl. 44-63.
Miller, Clifford E. Timing mechanism. 3,454,730, 7-8-69, Cl. 200-38.
Miller Company, The: *See—*
Lepak, Theodore John, 3,435,204.
Pascucci, Ernest, 3,464,727.
Schiffer, Henry C., 3,465,141.
Miller, Daniel A., to Black and Decker Manufacturing Company, The. Transmission for rotary hammer. 3,430,708, 3-4-69, Cl. 173-109.
Miller, Daniel A., to Black and Decker Manufacturing Company, The. Motion transmission mechanism for impact tools. 3,430,709, 3-4-69, Cl. 173-123.
Miller, Daniel A.; and Saffell, William F., to Black and Decker Manufacturing Company, The. Motor field mounting. 3,426,227, 2-4-69, Cl. 310-180.
Miller, Daniel C. Jack for raising motor vehicle wheels. 3,479,011, 11-18-69, Cl. 254-94.
Miller, Daniel D.: *See—*
Hyde, Dennis William, 3,470,553.
Miller, Daniel D., to Doban Labs, Inc. Apparatus for sequentially printing and projecting data such as game scores. 3,440,956, 4-29-69, Cl. 101-93.
Miller, Daniel R. Test plug means for fluid conduits. 3,451,432, 6-24-69, Cl. 138-90.
Miller, David S., to Rollamatic Roofs, Incorporated. Movable roof. 3,465,483, 9-9-69, Cl. 52-72.
Miller, Delmar S.: *See—*
Cushman, Kenneth V.; and Miller, Delmar S.,3,465,637.
Miller, Donald B.; McClaflin, Gifford G.; and Sorenson, Wayne R., to Continental Oil Company. Olefin polymerization process for producing highly isotactic polymers. 3,432,513, 3-11-69, Cl. 260-93.7
Miller, Donald D., to General Motors Corporation. Inertia operated switch. 3,471,661, 10-7-69, Cl. 200-61.48
Miller, Donald E. Bearing. 3,427,656, 2-11-69, Cl. 308-6.
Miller, Donald G.; and Singleton, Richard H., to General Motors Corporation. High temperature composite gas turbine engine components. 3,486,833, 12-30-69, Cl. 416-241.
Miller, Donald J.: *See—*
Carper, Robert L.; Lein, Juergen G. A.; Miller, Donald J.; Schmidlin, Raymond J.; and Verderber, Joseph A.,3,426,678.
Miller, Donald L., to Bendix Corporation, The. Stationary field clutch. 3,455,421, 7-15-69, Cl. 192-84.
Miller, Donald L.; Madison, Norman L.; and Rausch, Douglas A., to Dow Chemical Company, The. Polyperfluoroazomethine. 3,423,334, 1-21-69, Cl. 260-2.
Miller, Donald L.; and Moncada, Gaylord A., to Daryl Industries, Inc. Support assembly for folding door. 3,480,988, 12-2-69, Cl. 16-87.2
Miller, Donald L.; Paul, James H.; and Kavanaugh, Sherman W. Fertilizer plant. 3,469,742, 9-30-69, Cl. 222-30.
Miller, Donald N.: *See—*
Tuite, Robert J.; and Miller, Donald N.,3,449,257.
Miller, Douglas D.; Hogan, Thomas Howard; and Inman, Richard B., to Scientific-Atlanta, Inc. Reclosable package. 3,438,483, 4-15-69, Cl. 206-56.
Miller, Earl A. Instant grip or handle for a ski pole. 3,479,045, 11-18-69, Cl. 280-11.37
Miller, Earl Andrew. Safety ski bindings. 3,421,771, 1-14-69, Cl. 280-11.35
Miller, Earle A.: *See—*
Brown, Arthur S.; Leiby, Harold E.; and Miller, Earle A.,3,455,078.
Miller, Edmund A., to Bissett-Berman Corporation, The. Electrolytic cell with electrolyte containing silver salt. 3,423,643, 1-21-69, Cl. 317-231.
Miller, Edward A.: *See—*
Michener, Robert; and Miller, Edward A.,3,455,162.
Miller, Edward B.: *See—*
Pachmayr, Frank A.; and Miller, Edward B.,3,435,727.
Pachmayr, Frank A.; and Miller, Edward B.,3,435,728.
Miller, Edward G., Jr.; and Kennedy, William D., to Eastman Kodak Company. Treatment of smoking tobacco with chlorate salts. 3,474,792, 10-28-69, Cl. 131-17.
Miller, Edward G.: *See—*
Walker, Theodore R.; and Miller, Edward G.,3,429,318.
Miller, Edward J., Jr., to Motorola, Inc. Controller having FET bridge circuit. 3,435,375, 3-25-69, Cl. 331-110.
Miller, Edward W. Helicopter. 3,432,119, 3-11-69, Cl. 244-6.
Miller, Edwin A., to Texas Instruments, Incorporated. Method of making tube-in-sheet metal products. 3,435,504, 4-1-69, Cl. 29-157.3
Miller, Edwin A. Electrical connectors. 3,474,380, 10-21-69, Cl. 339-17.
Miller, Edwin C., to Kelly-Springfield Tire Company, The. Tire trimming device. 3,483,911, 12-16-69, Cl. 157-13.
Miller, Eldon D.: *See—*
McCreight, Donald O.; Miller, Eldon D.; and Pavlica, Stanley R.,3,463,650.
Miller Electric Co.: *See—*
Laig, Leroy C., 3,475,716.
Miller, Eli A.Mason's line reel. 3,481,557, 12-2-69, Cl. 242-96.
Miller, Elizabeth Joan. Visual method and devices for aiding teaching and learning mathematical operations with signed numbers. 3,453,748, 7-8-69, Cl. 35-32.
Miller Engineering Corporation: *See—*
Miller, Frank H., Jr., 3,423,903.
Miller, Eugene: *See—*
Ehlinger, Peter J., 3,443,832.
Miller, Eugene J., Jr.; and Mais, Ago, to Armour Industrial Chemical Company, mesne. Di-,tri-and tetra-quaternary ammonium compounds. 3,424,794, 1-28-69, Cl. 260-567.6
Miller, Eugene J., Jr.; and Mais, Ago, to Armour Industrial Chemical Company. Amine oxides. 3,457,312, 7-22-69, Cl. 260-584.
Miller, Eugene J., Jr.; and Mais, Ago, to Armour Industrial Chemical Company. N-secondary-alkyl tertiary polyamine compounds. 3,480,674, 11-25-69, Cl. 260-583.
Miller, Eugene J., Jr.; Mais, Ago; and Say, Domingo, to Armour and Company. Carboxylation. 3,481,977, 12-2-69, Cl. 260-537.
Miller, Eugene J., Jr.; and Tiefenthal, Harlan E., to Armour Industrial Chemical Company, mesne. Arylalkyl quaternary ammonium compounds. 3,444,200, 5-13-69, Cl. 260-567.6
Miller, Eugene J., Jr.; and Tiefenthal, Harlan E., to Armour Industrial Chemical Company, mesne. Aryl-substituted aliphatic benzyl and naphthyl- methylene quaternary ammonium compounds. 3,467,708, 9-16-69, Cl. 260-567.6
Miller, Eugene J., Jr.: *See—*
Tiefenthal, Harlan E.; Miller, Eugene J., Jr.; and Mais, Ago,3,457,311.
Miller, Eugene M.; and Kelley, Jerry O., to Cart-Trac, Inc., mesne. Shiftable magazine sound tape cartridge apparatus. 3,453,397, 7-1-69, Cl. 179-100.2
Miller, Floyd B.; Janich, Martin B.; and McWilliams, John A. Bulk beverage shipping container and protective support therefor. 3,446,394, 5-27-69, Cl. 220-97.
Miller, Floyd E., to Posa-Cut Corporation. Multiple insert cutting tool. 3,455,002, 7-15-69, Cl. 29-97.
Miller, Floyd Y., to Emerson Electric Co. Pipe assembling and disassembling tool. 3,432,908, 3-18-69, Cl. 29-237.
Miller, Francis A., Jr.: *See—*
Luckey, George W.; and Miller, Francis A., Jr.,3,482,092.
Miller, Francis A., to Puromatic, Inc. Ozone producing apparatus and method utilizing a resonant circuit where the capacitance is provided by the reactant fluid. 3,455,803, 7-15-69, Cl. 204-176.
Miller, Francis P., to Continental Carbon Company. Apparatus for pelletizing finely divided solids. 3,461,487, 8-19-69, Cl. 18-1.
Miller, Frank H., Jr., to Miller Engineering Corporation. Bag positioning apparatus. 3,423,903, 1-28-69, Cl. 53-188.
Miller, Frank P. Support apparatus. 3,434,566, 3-25-69, Cl. 182-15.
Miller, Frank R.; and Dillberg, Raymond E. Orthodontic rotation appliance. 3,461,558, 8-19-69, Cl. 32-14.
Miller, Frank S., to North American Rockwell Corporation. Combination exhaust muffler and heater. 3,420,052, 1-7-69, Cl. 60-31.
Miller, Franklin G.: *See—*
Hague, Robert Z.; Ballard, John S.; Lewlew, John J.; and Miller, Franklin G.,3,420,141.
Miller, Fred F., Jr., to Dana Corporation. Ball cage for ball type constant velocity joint. 3,447,341, 6-3-69, Cl. 64-21.
Miller, Fred L., to United States of America, Navy, mesne. Fail passive servo. 3,473,099, 10-14-69, Cl. 318-18.
Miller, Frederic O., to Miller Mold Co. Mold construction. 3,427,687, 2-18-69, Cl. 18-35.
Miller, Gabriel L.: *See—*
Brown, Walter L.; and Miller, Gabriel L.,3,421,091.
Miller, Gabriel L., to Bell Telephone Laboratories, Incorporated. Pulse stretcher-discriminator whose component electronics exhibit constant power dissipation. 3,479,534, 11-18-69, Cl. 307-267.
Miller, Gene C.: *See—*
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr.,3,440,973.
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr.,3,478,705.
Miller, George A., to Rohm & Haas Company. Aryl N-(aryl)-alkanoimidates. 3,453,311, 7-1-69, Cl. 260-453.
Miller, George A.: *See—*
Lewis, Sheldon N.; and Miller, George A.,3,449,388.
Miller, George P.; and Terracciano, Benny J., to Bunker-Ramo Corporation, The. Gimballing means for a movable carriage. 3,464,283, 9-2-69, Cl. 74-424.8
Miller, George Reynolds, to American Export Isbrandtsen Lines, Inc. System for handling cargo containers. 3,468,437, 9-23-69, Cl. 214-15.
Miller, George T., to Hooker Chemical Corporation. Production of sodium phosphates. 3,421,846, 1-14-69, Cl. 23-107.
Miller, George T., to Hooker Chemical Corporation. Method of increasing the amount of fruit. 3,472,647, 10-14-69, Cl. 71-122.

Miller, Gerald K.; Sauter, William D.; and Warren, John P., to Schlumberger Technology Corporation. Methods and apparatus for recording well logging data. 3,457,544, 7-22-69, Cl. 340-18.
Miller, Gilbert H., to Dontic Corporation. Method of resistance soldering attachment wires to orthodontic arch wires. 3,485,993, 12-23-69, Cl. 219-85.
Miller, Glen E. Moveable advertising displays. 3,426,461, 2-11-69, Cl. 40-31.
Miller, Harold D., to United States of America, Army, mesne. Plurality of ceramic spacers for separating planar grids. 3,435,274, 3-25-69, Cl. 313-348.
Miller, Harold J.: *See—*
Smith, Herbert Q.; and Miller, Harold J.,3,484,525.
Miller, Harold N.: *See—*
Burkard, Herbert G.; Henselman, Richard O.; Miller, Harold N.; and Tunkel, Norman,3,442,790.
Henselman, Richard O.; and Miller, Harold N.,3,475,321.
Tunkel, Norman; and Miller, Harold N.,3,467,597.
Miller, Harold R., to Hercules Incorporated. Repulping of wet-strength broke containing wet- strength resin. 3,427,217, 2-11-69, Cl. 162-6.
Miller, Harold W.; and Kerns, Quentin A., to United States of America, Atomic Energy Commission. Optical image amplifier utilizing electron avalanches in a gas. 3,457,418, 7-22-69, Cl. 250-213.
Miller, Harold; and Nelson, Russell, to Pennsalt Chemicals Corporation. N,N-dialkyltirdecylamine salts of 3,6-endoxohexahydrophthalic acid. 3,466,303, 9-9-69, Cl. 260-347.3
Miller, Harry B.: *See—*
Kieronski, John P.; and Miller, Harry B.,3,451,640.
Miller, Harry E.: *See—*
Metzger, Benjamin A.; and Miller, Harry E.,3,426,953.
Miller, Harry H.; and Grove, Clerf W. Adjustable safety device. 3,461,653, 8-19-69, Cl. 56-25.4
Miller, Harvey E., to General Tire & Rubber Company, The. Resilient bushing with improved vibration attenuating properties. 3,424,447, 1-28-69, Cl. 267-1.
Miller, Harvey; and Thurston, Woodrow. Fluidized bed coater. 3,464,384, 9-2-69, Cl. 118-429.
Miller, Henry S.; Linhardt, Robert J.; and Sidnam, Robert D., to RCA Corporation. Computer system adapted to be constructed of large integrated circuit arrays. 3,462,742, 8-19-69, Cl. 340-172.5
Miller, Herman, Inc.: *See—*
Nagelkirk, Preston; and Koning, Simon J., 3,439,812.
Propst, Robert L.; and Kelley, James O., 3,425,171.
Propst, Robert L.; and Kelley, James O., 3,455,529.
Miller Holzwarth, Inc.: *See—*
Miller, William E.; and Webb, Douglas E., 3,479,119.
Miller, Horace G. Dual reed comb filter. 3,440,534, 4-22-69, Cl. 324-80.
Miller, Howard A.: *See—*
Nelson, Harry A.; Oeland, Ernest N., Jr.; Miller, Howard A.; and Blatt, Milton D.,3,477,376.
Miller, Howard B.: *See—*
Sweet, George E.; Anderson, William W., Jr.; and Miller, Howard B.,3,433,953.
Miller, Howard F. Wall jack. 3,485,386, 12-23-69, Cl. 214-1.
Miller, Howard P. Hose reel and enclosure therefor. 3,450,150, 6-17-69, Cl. 137-355.16
Miller, Howard R., to Union Carbide Corporation. Method for establishing and closing an arc weld. 3,433,927, 3-18-69, Cl. 219-137.
Miller, Hubert B.; and Kipp, Kenneth W., to Lyall Electric, Inc. Grommet. 3,424,857, 1-28-69, Cl. 174-153.
Miller, Hyman. Storage rack. 3,465,895, 9-9-69, Cl. 211-176.
Miller, Imrich M., to Universal Manufacturing Corporation. Clamp and laminations. 3,474,371, 10-21-69, Cl. 336-210.
Miller, Irving C., to Corning Glass Works. Method of connecting together a plurality of transducer segments. 3,453,711, 7-8-69, Cl. 29-25.35
Miller, Jack M.; Long, Marshall; and Alley, Lewis F., to Marlen Equipment Company. Continuous hydraulic stuffer. 3,456,285, 7-22-69, Cl. 17-39.
Miller, Jack M.: *See—*
Schack, Warren R.; and Miller, Jack M.,3,476,574.
Miller, Jack V.; and Froelich, Ronald W. Fluorescent lamp circuit employing a cathode follower configuration. 3,432,723, 3-11-69, Cl. 315-94.
Miller, Jacob I.: *See—*
Aaron, Herbert S.; Owens, Omer O.; and Miller, Jacob I.,3,464,997.
Miller, James A.: *See—*
Emery, Donald B.; and Miller, James A.,3,446,890.
Miller, James C.: *See—*
Avins, Jeremiah Yl; and Miller, James C.,3,459,287.
Miller, James C.; and Wine, Charles M., to Radio Corporation of America. Coordinate converter system. 3,439,317, 4-15-69, Cl. 340-1.
Miller, James C.; and Wine, Charles M., to RCA Corporation. Read-only memories. 3,466,625, 9-9-69, Cl. 340-174.
Wine, Charles M.; and Miller, James C.,3,462,747.
Miller, James H.: *See—*
Altekruse, John L.; Buxton, Albert C.; Hancock, Robert O.; and Miller, James H.,3,421,716.
Miller, James H., to Gould-National Batteries, Inc. Storage battery terminal connectors. 3,457,118, 7-22-69, Cl. 136-135.
Miller, James L., to General Motors Corporation. Clothes dryer control system. 3,432,938, 3-18-69, Cl. 34-45.
Miller, James R., III, to United States of America, Army. Mc Leod gage. 3,464,270, 9-2-69, Cl. 73-400.
Miller, James Richard: *See—*
Tredennick, William T.; and Miller, James Richard,3,429,487.
Miller, Jerry R.: *See—*
Swallow, Robert E.; and Miller, Jerry R.,3,420,175.
Miller, John Clifton: *See—*
Lilligren, Robert W.; and Miller, John Clifton,3,454,010.
Miller, John D., to Owens-Illinois, Inc. Package for elongate frangible articles having wide thin extremity portions. 3,456,782, 7-22-69, Cl. 206-65.
Miller, John E., to United States Steel Corporation. Valve-unloading mechanism for reciprocating pumps. 3,459,363, 8-5-69, Cl. 230-24.
Miller, John E.: *See—*
Gandy, Mack C.; and Miller, John E.,3,457,724.
Miller, John P., to Sweco, Inc. Parallel flow separator. 3,452,868, 7-1-69, Cl. 209-254.
Miller, John R.: *See—*
James, Carl A.; and Miller, John R.,3,466,086.
Miller, John R. Article and method for retaining loose leaves in bound volumes. 3,435,828, 4-1-69, Cl. 129-1.
Miller, John S.: *See—*
Boys, Donald R.; Gelling, Homer R.; and Miller, John S.,3,445,584.
Miller, John W. Osteopathic device. 3,420,229, 1-7-69, Cl. 128-71.
Miller, John, 1/2 interest to Hernandez, Juan E. Automobile door emergency lock with inertia triggered detent latching the bolt in open cocked position. 3,453,015, 7-1-69, Cl. 292-186.
Miller, Joseph A.; and Kruglinski, Frank A., to General Corrugated Machinery Co., Inc. Apparatus for orienting case blanks. 3,422,969, 1-21-69, Cl. 214-6.
Miller, Joseph F. G.; and Watson, John T., to Itek Corporation. Panoramic aerial camera. 3,463,070, 8-26-69, Cl. 95-16.
Miller, Joseph N.; and Harbaugh, Arthur G., to Jackes-Evans Manufacturing Company. Automatic hoist system for backstop assembly. 3,452,984, 7-1-69, Cl. 273-1.5
Miller, Joseph N.; and Harbaugh, Arthur G., to Jackes-Evans Manufacturing Company. Foldable backstop down-lock means. 3,467,377, 9-16-69, Cl. 273-1.5
Miller, Kenneth D., Jr.: *See—*
Heinemann, Heinz; and Miller, Kenneth D., Jr.,3,461,180.
Miller, Kenneth F., to Holophane Company, Inc. Luminaire fixture. 3,459,936, 8-5-69, Cl. 240-73.
Miller, Kenneth F.; and Smith, Melvin H., to Bourns, Inc. Method of making a piezoelectric device. 3,458,915, 8-5-69, Cl. 29-25.35
Miller, Kenneth H.: *See—*
Ebershoff, Kenneth L.; and Miller, Kenneth H.,3,443,106.
Miller, Kenyon W.: *See—*
Griffiths, Darrell J. L.; Miller, Kenyon W.; and Nikkel, Willem A.,3,434,901.
Miller, Larence G. Portable collapsible barbecue. 3,421,493, 1-14-69, Cl. 126-25.
Miller, Larry William: *See—*
Welsh, Alan B.; and Miller, Larry William,3,456,546.
Miller, Lawrence J.: *See—*
Anderson, Rodney H.; Black, William J.; and Miller, Lawrence J.,3,483,640.
Eftefield, Larry G.; and Miller, Lawrence J.,3,483,639.
Eftefield, Larry G.; Liess, Richard K.; Miller, Lawrence J.; and Wagner, Ernest W.,3,423,853.
Miller, Lawrence J., to Caterpillar Tractor Company. Self-loading scraper having a pivotal elevator and movable floor portion for unloading. 3,474,548, 10-28-69, Cl. 37-8.
Kokaly, Joseph; and Miller, Lawrence J.,3,484,960.
Miller, Lawrene J., to Caterpillar Tractor Company. Chain adjuster. 3,463,022, 8-26-69, Cl. 74-227.
Miller, Lee T.: *See—*
Brewer, Russell C.; Bystricky, Joseph C.; and Miller, Lee T.,3,481,361.
Miller, Leo A.; and Terrana, Jack D., to Wellman-Lord, Inc., mesne. Process for recovering sulfur dioxide from flue gas. 3,477,815, 11-11-69, Cl. 23-178.
Miller, Leo A.; and Terrana, Jack D., to Wellman-Lord, Inc., mesne. Process for recovering sulfur dioxide from gases containing same. 3,485,581, 12-23-69, Cl. 23-178.
Miller, Leo A.: *See—*
Wall, Henry H.; Breidenbach, Eric P.; and Miller, Leo A.,3,468,967.
Miller, Leo C., to United States of America, Navy. No-scan detector. 3,435,352, 3-25-69, Cl. 328-120.
Miller, Leon F., to Sherwin-Williams Company, The, mesne. Foundry molding method. 3,443,626, 5-13-69, Cl. 164-39.

Miller, Leon F.; and Herbruggen, Henry J., to Sherwin-Williams Company, The. Foundry molding machine. 3,439,733, 4-22-69, Cl. 164-200.
Miller, Leon F.; and Herbruggen, Henry J., to Sherwin-Williams Company, The, mesne. Mold and core blowing machine. 3,470,938, 10-7-69, Cl. 164-200.
Miller, Leonard E.: *See—*
Murfin, Donald L.; and Miller, Leonard E.,3,478,091.
Miller, Leon; and Norton, Charles W., Jr., to United States of America, Army. Distributed amplifier system. 3,451,004, 6-17-69, Cl. 330-54.
Miller, Lester D., to Bangor Punta Operations, Inc. Trailer hitch safety device. 3,479,057, 11-18-69, Cl. 280-511.
Miller, Lewis F., to International Business Machines Corporation. Method of joining a component to a substrate. 3,429,040, 2-25-69, Cl. 29-626.
Miller, Lewis S.; and Horowitz, Frederick, to Weyerhaeuser Company. Precipitated resin-starch paperboard treatment. 3,476,695, 11-4-69, Cl. 260-17.2
Miller, Libby S., to Smith Kline & French Laboratories. Pentacycloundecane amines. 3,449,422, 6-10-69, Cl. 260-563.
Miller, Lloyd G., to Lear Siegler, Inc. Self-leveling scorsby machine. 3,426,576, 2-11-69, Cl. 73-1.
Miller, Lowell A.: *See—*
Fong, Willie; Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A.,3,477,803.
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A.,3,429,650.
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A.,3,466,136.
Miller, Lowell E.; and Henderson, Robert M., to Fairbanks Morse Inc. Article spacing system. 3,485,339, 12-23-69, Cl. 198-34.
Miller, Marion R.; and Temple, Lowell D., to National Coupling Company, Inc. Apparatus and process for producing constant volume gaskets. 3,448,647, 6-10-69, Cl. 83-423.
Miller, Marsden L.: *See—*
Malavasi, Stuart H.; and Miller, Marsden L.,3,445,173.
Miller, Marvin O., to United States of America, Navy. Cable tensioning device for winches. 3,448,962, 6-10-69, Cl. 254-175.7
Miller, Mathiel. Hat frame and method. 3,480,969, 12-2-69, Cl. 2-180.
Miller, Matthew N., to Fairchild Hiller Corporation. Store launching system. 3,435,725, 4-1-69, Cl. 89-1.5
Miller, Maurice L.: *See—*
Sanford, Richard A.; and Miller, Maurice L.,3,446,077.
Miller, Max W., to Pfizer, Chas., & Co., Inc. 1-Substituted-2-alkyl-5-nitroimidazoles. 3,479,367, 11-18-69, Cl. 260-309.
Miller, Max W., to Pfizer, Chas., & Co., Inc. 5-Nitroimidazoles. 3,483,212, 12-9-69, Cl. 260-309.
Miller, Meryl E.; Huddleston, Stanley R.; and Work, Carl F., to National Cash Register Company, The. Positioning mechanism for transducing head unit. 3,480,934, 11-25-69, Cl. 340-174.1
Miller, Michael E., to Radio Corporation of America. Phonograph pickup. 3,420,534, 1-7-69, Cl. 274-37.
Miller Mold Co.: *See—*
Miller, Frederic O., 3,427,687.
Miller, Monroe A., to Milgo Electronic Corporation. Computer with logic controlled analog computing components which automatically change mathematical states in response to a control means. 3,470,362, 9-30-69, Cl. 235-150.4
Miller, Monroe A., to Milgo Electronic Corporation. Closed loop servo for setting potentiometers. 3,483,454, 12-9-69, Cl. 318-18.
Miller, Nathan. Practice golf tee including mirror means. 3,459,428, 8-5-69, Cl. 273-183.
Miller, Neil S., to University of Glasgow The, University Court of the. Method of and apparatus for bending bars. 3,459,018, 8-5-69, Cl. 72-7.
Miller, Norman G.: *See—*
Storment, Joseph E.; Jones, Charley S.; and Miller, Norman G.,3,443,391.
Miller, Norman H. Maintenance lift. 3,446,366, 5-27-69, Cl. 214-1.
Miller, Norman J., to Motorola, Inc. J-K flip-flop. 3,467,839, 9-16-69, Cl. 307-289.
Miller, Norman K., to Miller Brothers. Safety edge for a door. 3,462,885, 8-26-69, Cl. 49-488.
Miller, Park H., Jr., to Gulf General Atomic Incorporated, mesne. Microwave diminsional measuring apparatus and method. 3,437,922, 4-8-69, Cl. 324-58.5
Miller, Park H., Jr., to Gulf General Atomic Incorporated, mesne. Method and system for communication of information utilizing pulse compression principles. 3,469,189, 9-23-69, Cl. 325-38.
Miller, Paul E. Barber caddy. 3,460,899, 8-12-69, Cl. 21-83.
Miller, Paul F. Teaching machine. 3,466,758, 9-16-69, Cl. 35-8.
Miller, Peter H. Dry wall structure. 3,465,488, 9-9-69, Cl. 52-481.
Miller, Peter H. Dry wall two-piece stud structure. 3,483,665, 12-16-69, Cl. 52-461.
Miller, Peter H. Edging strip for a dry wall structure. 3,485,001, 12-23-69, Cl. 52-281.
Miller, Peter S., to Honeywell Inc. Biasing circuit for use with field-effect transistors. 3,462,701, 8-19-69, Cl. 330-40.
Miller, Philip J., to Independent Boxmakers, Inc. Combination shipping and display carton. 3,425,537, 2-4-69, Cl. 206-44.
Miller, Philip, to Hicks and Otis Prints, Incorporated. Method of producing contoured sheet materials. 3,454,413, 7-8-69, Cl. 117-5.5
Miller Printing Machinery Co.: *See—*
Schleiden, Albert Lester, 3,482,833.
Siebke, Carl O., 3,430,946.
Siebke, Carl O., 3,443,808.
Young, William G., 3,477,304.
Miller, Ralph L., to Bell Telephone Laboratories, Incorporated. Voice-excited, bandwidth reduction system employing pitch frequency pulses generated by unencoded baseband signal. 3,431,362, 3-4-69, Cl. 179-15.55
Miller, Ralph L., to Bell Telephone Laboratories, Incorporated. Vocoder utilizing companding to reduce back- ground noise caused by quantizing errors. 3,471,648, 10-7-69, Cl. 179-15.55
Miller, Raphael W. Ball separating and aligning device. 3,466,037, 9-9-69, Cl. 273-11.
Miller, Raphael W.; and Worst, Harold J. Method of assembling a billiard cue. 3,431,628, 3-11-69, Cl. 29-450.
Miller, Raymond H., to Hurd, Mark Aerial Surveys, Inc. Aircraft camera mounting. 3,421,721, 01/1469, Cl. 244-129.
Miller, Raymond H.; and Clark, Earl S., to Federal Products Corporation. Gaging method and apparatus. 3,471,934, 10-14-69, Cl. 33-172.
Miller, Raynor K.: *See—*
McIvor, Robert A.; and Miller, Raynor K.,3,437,681.
Miller, Reuben, to United States Steel Corporation. Molten metal spout. 3,420,513, 1-7-69, Cl. 266-38.
Miller, Richard: *See—*
Fischer, Fritz, 3,422,999.
Miller, Richard A., to Easton Car & Construction Company. Container carriers. 3,446,378, 5-27-69, Cl. 214-317.
Miller, Richard A.: *See—*
Bresina, Larry J.; and Miller, Richard A.,3,420,732.
Miller, Richard G., to PPG Industries, Inc. Transparent copper coated glass articles and improved electroless method for producing said articles. 3,457,138, 7-22-69, Cl. 161-196.
Miller, Richard W.: *See—*
Ezekiel, Frederick D.; and Miller, Richard W.,3,465,574.
Miller, Robert A., to Stanley Works, The. Integrated header. 3,473,266, 10-21-69, Cl. 49-504.
Miller, Robert B. Sugarcane processing and apparatus. 3,424,611, 1-28-69, Cl. 127-2.
Miller, Robert B. Sugarcane processing and apparatus. 3,424,612, 1-28-69, Cl. 127-2.
Miller, Robert B.; Creighton, Stephen M.; and Raczuk, Taras W. Sugarcane processing. 3,464,877, 9-2-69, Cl. 156-259.
Miller, Robert B.; and Raczuk, Taras W. Sugarcane board product and process of making the same. 3,464,881, 9-2-69, Cl. 161-60.
Miller, Robert C., to Sylvania Electric Products Inc. Hermetic sealing process. 3,426,170, 2-4-69, Cl. 219-74.
Miller, Robert C.; and Ryan, Frederick M., to Westinghouse Electric Corporation. Apparatus and method for controlling the output of a light emitting semiconductor device. 3,483,397, 12-9-69, Cl. 307-312.
Miller, Robert D. Decoying apparatus for attracting game birds. 3,436,856, 4-8-69, Cl. 43-3.
Miller, Robert D.; and Gernhardt, Gordon G., to Westinghouse Electric Corporation. Drawout switchgear optionally interlocked with an auxiliary switch. 3,437,768, 4-8-69, Cl. 200-50.
Miller, Robert Deryl; Edman, John Harold; and Bucher, David Hoffer, to Deere & Company. Safety enclosure for tractors. 3,443,833, 5-13-69, Cl. 296-102.
Miller, Robert Deryl: *See—*
Murphy, Kenneth Earl; and Miller, Robert Deryl,3,463,511.
Miller, Robert E.: *See—*
Bowler, Richard G.; and Miller, Robert E.,3,466,184.
Doxey, Brian C.; and Miller, Robert E.,3,439,425.
Miller, Robert E., to Monsanto Company. Heat-initiated phosphate-bonded compositions. 3,427,174, 2-11-69, Cl. 106-58.
Miller, Robert E. Swimming pool vacuuming apparatus. 3,443,264, 5-13-69, Cl. 4-172.
Miller, Robert E., to Monsanto Company. Reinforced polymeric compositions and process of preparation thereof. 3,471,435, 10-7-69, Cl. 260-37.
Miller, Robert E.; and McManimie, Robert J., to Monsanto Company. Substituted silylalkyl acrylates. 3,427,337, 2-11-69, Cl. 260-448.2
Hancock, Lyle J.; and Miller, Robert E.,3,434,103.
Miller, Robert F., to Davis-Miller Corporation. Corrugated pipecoupling forming method. 3,447,352, 6-3-69, Cl. 72-187.
Miller, Robert F., to Andrew Corporation. Gas-sealing electrical fitting for non-circular tubular conductors. 3,461,409, 8-12-69, Cl. 333-98.
Miller, Robert F.; and Miller, Roy E. Work piece sensor and tape cutoff for sewing machines. 3,425,373, 2-4-69, Cl. 112-130.
Miller, Robert F.: *See—*
Miller,Roy E.; and Miller, Robert F.,3,420,199.

Miller, Robert G., Jr.: *See—*
Miller, Carl L., Jr.; and Miller, Robert G., Jr.,3,437,256.
Farmer, Charels G.; Loyd, Calvin D.; Miller, Robert G.; and Oberle, Theodore L.,3,462,826.
Johnson, Edward L.; and Miller, Robert G.,3,420,328.

Miller, Robert Harrison: *See—*
Sherman, Arthur Tillman; and Miller, Robert Harrison,3,421,232.
Burchill, Richard F.; and Miller, Robert H.,3,472,126.

Miller, Robert H., to International Harvester Company. Rake tooth mounting. 3,481,125, 12-2-69, Cl. 56-400.

Miller, Robert H. Rainfall measuring device. 3,485,096, 12-23-69, Cl. 73-171.
Joris, George G.; and Miller, Robert H.,3,484,414.
Maxwell, Carl R.; Miller, Robert H.; and Parks, John H.,3,472,215.

Miller, Robert J.: *See—*
Clayton, William J.; Miller, Robert J.; and Smith, Clair C.,3,466,212.

Miller, Robert L.: *See—*
Coffer, William E.; Miller, Robert L.; and Shewan, John,3,441,929.

Miller, Robert L., to Honeywell Inc. Anti-logarthmic computing circuit. 3,440,414, 4-22-69, Cl. 235-197.

Miller, Robert L., to Honeywell Inc. Recorder ink reservoir containing anti-buttle material. 3,441,950, 4-29-69, Cl. 346-140.

Miller, Robert L.; and Shewan, John. Machine and method for forming strip material. 3,451,246, 6-24-69, Cl. 72-304.

Miller, Robert R., to Precision Metalsmiths, Inc. Coordinate calculator. 3,483,620, 12-16-69, Cl. 33-1.

Miller, Robert W., Jr.: *See—*
Miller, Charles A., Jr.; Masaschi, Joseph B.; and Miller, Robert W., Jr.,3,471,028.

Miller, Robert W., to Alaskang, Inc. Drilling apparatus. 3,463,254, 8-26-69, Cl. 175-102.
Clarkson, Robert J.; and Miller, Robert,3,441,989.

Miller, Robert; and Farber, Milton, to Uniroyal, Inc. Cross-dyed carpets. 3,439,999, 4-22-69, Cl. 8-15.

Miller, Robert; Farber, Milton; and Loveless, Frederick C., to Uniroyal, Inc. Chemical process for treating polymers with acids. 3,432,250, 3-11-69, Cl. 8-29.

Miller, Robert; Farber, Milton; and Shichman, Daniel, to Uniroyal, Inc.Polyester and olefin yarns with basic resins therein wound on core, steamed and acidified with SO_2 or NO_2. 3,485,574, 12-23-69, Cl. 8-115.5

Miller, Roger M.; Mueller, Bruno; and Sorochan, Walter G., to Canadian Industries Limited. Extrusion process and apparatus for producing a thermoplastic pipe having a glossy surface. 3,446,884, 5-27-69, Cl. 264-209.

Miller, Roland E.; and Wayne, Clyde D., to National Dairy Products Corporation. Spray dryer. 3,463,400, 8-26-69, Cl. 239-223.

Miller, Roland E.; Wayne, Clyde D.; Olson, Edgar C.; and Piatek, Robert J., to National Dairy Products Corporation. Method and apparatus for arranging articles in a row. 3,479,024, 11-18-69, Cl. 270-58.

Miller, Roland E.; Wayne, Clyde; and Kirby, William T., to National Dairy Products Corporation. Elongated cheese ribbon cutting device. 3,425,123, 2-4-69, Cl. 31-5.

Miller, Roland E.: *See—*
Scaletta, Joseph A.; Miller, Roland E.; and Valek, John,3,435,653.
Wolfe, Wayne F.; Miller, Alwin M.; and Miller, Roland,3,442,401.

Miller, Ronald C., to Honeywell Inc. Combination switch and variable resistor system. 3,428,887, 2-18-69, Cl. 323-94.

Miller, Ronald C.; and Newbold, William F., to Honeywell, Inc. Indicating device. 3,439,648, 4-22-69, Cl. 116-135.

Miller, Ronald E.: *See—*
DeMott, Alfred E.; and Miller, Ronald E.,3,439,417.

Miller, Ronald J., to Sperry Rand Corporation. Control stick transducer. 3,485,463, 12-23-69, Cl. 244-83.

Miller, Roscoe E. Medical device for control of enemata. 3,459,175, 8-5-69, Cl. 128-2.

Miller, Ross M., Jr.: *See—*
Meeks, Thomas, 3,439,363.

Miller,Roy E.; and Miller, Robert F., to Reece Corporation, The, mesne. Combination presser foot and thread cut-off. 3,420,199, 1-7-69, Cl. 112-252.

Miller, Roy E.: *See—*
Miller, Robert F.; and Miller, Roy E.,3,425,373.

Miller, Roy W., to Pullman Incorporated. Operating mechanism for vehicle discharge means. 3,446,374, 5-27-69, Cl. 214-63.

Miller, Roy W., to Pullman Incorporated. Operating mechanism for vehicle discharge means. 3,474,920, 10-28-69, Cl. 214-63.

Miller, Roy W.; and Frageman, Donald L., to Pullman Incorporated. Uncoupling rod arrangement. 3,438,513, 4-15-69, Cl. 213-166.

Miller, Russell A. Boat unloading assembly. 3,428,193, 2-18-69, Cl. 214-12.

Miller, Russell Arthur. Mobile electric heating implement for applying heat to a horizontal surface. 3,471,681, 10-7-69, Cl. 219-368.

Miller, Samuel A.: *See—*
Zaccone, Joseph V., 3,448,476.

Miller, Samuel A.: *See—*
Hart, Otho E.; and Miller, Samuel A.,3,437,041.

Miller, Samuel E., to Quick Service Textiles, Inc. Apparatus for feeding and cutting strip material. 3,440,911, 4-29-69, Cl. 83-278.

Miller, Seymour Marvin: *See—*
Radel, Philip Harold; and Miller, Seymour Marvin,3,430,759.

Miller, Sheldon M.: *See—*
Burns, Alvin G.; and Miller, Sheldon M.,3,471,156.

Miller, Sidney N.: *See—*
Praeger, Donald L.; Martell, Richard M.; and Miller, Sidney N.,3,484,155.

Miller, Silas N.: *See—*
Martin, Otis M., 3,440,777.

Miller, Steven: *See—*
French, Jack W.; and Miller, Steven,3,449,781.

Miller, Stewart E., to Bell Telephone Laboratories, Incorporated. Multimode optical amplifier. 3,426,286, 2-4-69, Cl. 330-4.3

Miller, Stewart E., to Bell Telephone Laboratories, Incorporated. Waveguide for millimeter and optical waves. 3,434,774, 3-25-69, Cl. 350-96.

Miller, Stewart E., to Bell Telephone Laboratories, Incorporated. Thermal gaseous waveguide with gas-cooling compartments longitudinally distributed therealong. 3,441,337, 4-29-69, Cl. 350-96.

Miller, Stewart E., to Bell Telephone Laboratories, Incorporated. Thermal electromagnetic waveguide having transverse gas flow. 3,457,001, 7-22-69, Cl. 350-96.

Miller, Stewart E., to Bell Telephone Laboratories, Incorporated. Automatic frequency control system for controlling the frequency of the local oscillator used in a differential phase modulated PCM receiver. 3,479,600, 11-18-69, Cl. 325-423.

Miller, T. George: *See—*
Kircher, Morton S.; and Miller, T. George,3,438,879.

Miller, Theodore A., Jr., to Abbott Laboratories. Tubing clamp. 3,461,876, 8-19-69, Cl. 128-346.

Miller, Theodore C., to Sterling Drug Inc.17-hydroxy-3-oxyestra-1,3,5(10)-triene-17$_\alpha$- carboxaldehydes and derivatives. 3,475,419, 10-28-69, Cl. 260-239.55

Miller, Theodore C.: *See—*
Christiansen, Robert G.; and Miller, Theodore C.,3,452,060.

Miller, Theodore W.: *See—*
Hoffman, Floyd C.; and Miller, Theodore W.,3,478,558.

Miller, Thomas D.: *See—*
Aliff, Rufus G., Jr.; and Miller, Thomas D.,3,482,764.
Aliff, Rufus G., Jr.; Herndon, Carl Douglas; and Miller, Thomas Dalton,3,472,444.

Miller, Thomas P., to International Telephone and Telegraph Corporation. NOR logic screening translator. 3,431,363, 3-4-69, Cl. 179-18.

Miller, Walter E., Jr.; and Duke, Jimmy R., to United States of America, Army. Push-pull correlating amplifier for use with a photodiode. 3,483,370, 12-9-69, Cl. 250-214.

Miller, Walter O.; and Weseloh, John W., Jr., to Dow Chemical Company, The. Apparatus for injection of soil chemicals. 3,447,495, 6-3-69, Cl. 111-7.

Miller, Ward B.: *See—*
Anderson, Cecil Van; and Miller, Ward B.,3,454,983.

Miller, Wayne F., to California Institute Research Foundation. Radio receiver using plural variable gain stages. 3,454,882, 7-8-69, Cl. 325-405.

Miller, Wendell E., to Cessna Aircraft Company, The. Acceleration control for variable speed transmissions. 3,463,034, 8-26-69, Cl. 74-733.

Miller, Wendell E., to Cessna Aircraft Company, The. Hydraulic power transmission control. 3,486,334, 12-30-69, Cl. 60-52.

Miller, William C.; and Trutna, William R., to Du Pont de Nemours, E. I., and Company. Preparation of 3, 3'-ethylenebis (tetrahydro-4,6- dimethyl-2H-1,3,5-thiadiazine-2-thione. 3,476,751, 11-4-69, Cl. 260-243.

Miller, William E.; and Webb, Douglas E., to Xerox Corporation, and Miller Holzwarth, Inc. Exposure control apparatus. 3,479,119, 11-18-69, Cl. 355-80.

Miller, William E.: *See—*
Grosvenor, David E.; and Miller, William E.,3,483,913.

Miller, William G., to Oceanographic Ventures Inc. Support assembly for underwater lamp. 3,474,243, 10-21-69, Cl. 240-1.3

Miller, William L., to Continental Can Company, Inc. Container and closure lid. 3,420,397, 1-7-69, Cl. 220-44.

Miller, William L., to Continental Can Company, Inc. Vented lid for hot drink cup. 3,459,324, 8-5-69, Cl. 220-44.

Miller, William N., to Bartelt Engineering Company, Inc. Machine for filling cartons. 3,431,703, 3-11-69, Cl. 53-381.

Miller, William P., II, to Goodyear Tire & Rubber Company, The. Tool for adjusting studs in tires. 3,458,895, 8-5-69, Cl. 81-3.

Miller, William R., Jr., to Farrel Corporation. Hydrostatic bearing. 3,450,156, 6-17-69, Cl. 137-509.

Miller, Wilson, and Company Limited: *See—*
Miller, Albert A., 3,482,470.

Miller-Stephenson Chemical Company, Inc.: *See—*
Soriano, Charles A., 3,450,335.
Milleron, Norman, to United States of America, Atomic Energy Commission. Fins for eliminating backstreaming in a vacuum pump. 3,454,214, 7-8-69, Cl. 230-101.
Millers Falls Company: *See—*
Chabot, Edward W., 3,421,212.
Pratt, Leonard C.; Provos, John R., Jr.; and De Carteret, James Alfred, 3,440,465.
Pratt, Leonard C.; and Pierce, Robert M., 3,471,731.
Raymond, John G., 3,460,408.
Milles, Karl: *See—*
Hafner, Walter; Kopp, Erwin; and Milles, Karl,3,457,353.
Hafner, Walter; Milles, Karl; and Kopp, Erwin,3,457,352.
Millet, Jacques F.: *See—*
Fabre, Jean; and Millet, Jacques F.,3,432,693.
Millet Puig, Jorge Alberto. Endotracheal tube. 3,481,339, 12-2-69, Cl. 128-351.
Millhiser, Robert G., to Ajem Laboratories, Inc. Method of preparing metal sealing surfaces. 3,440,703, 4-29-69, Cl. 29-156.4
Millhoff, Thomas N., to National-Standard Company. Welding wire. 3,438,755, 4-15-69, Cl. 29-183.5
Millhone, Ralph S.: *See—*
Hess, Patrick H.; and Millhone, Ralph S.,3,478,824.
Milligan, Dale W.: *See—*
Wanselow, Robert D.; and Milligan, Dale W.,3,427,624.
Milligan, Edward A.: *See—*
Cole, Richard I.; Holcroft, Donald E.; Milligan, Edward A.; and Greenhalgh, Samuel,3,432,936.
Milligan, Frederick H., to Crown Zellerbach Canada Limited. Method and apparatus for reeling flexible sheet material. 3,467,335, 9-16-69, Cl. 242-67.1
Milligan, Gordon H., to Grinnell Corporation. Bar stock valve and method of making the same. 3,477,694, 11-11-69, Cl. 251-367.
Milligan, James W., to Duncan Electric Company, Inc. Method of magnetizing magnets for a repulsion type of suspension. 3,434,084, 3-18-69, Cl. 335-284.
Milligan, John D. Motor vehicle heater assembly. 3,442,450, 5-6-69, Cl. 237-12.3
Milligan, John G.; and Cour, Thomas H., to Jefferson Chemical Company, Inc. Amine recovery. 3,448,152, 6-3-69, Cl. 260-583.
Milligan, Terry W.; and Young, Richard W., to Polaroid Corporation. Photographic diffusion transfer color process and film unit for use therein. 3,473,925, 10-21-69, Cl. 96-3.
Millikan, Allen F.: *See—*
Thorne, Gerald; and Millikan, Allen F.,3,426,126.
Millikan, Roger C., to General Electric Company. Electric lamp and method of manufacture. 3,448,320, 6-3-69, Cl. 313-315.
Millikan, Roger C.; and Osburg, Ludwig A., to General Electric Company. Direct filament enclosed incandescent lamps and contact means therefor. 3,448,322, 6-3-69, Cl. 313-318.
Milliken Industrials Corporation: *See—*
McCollough, John K., 3,445,056.
Milliken, Thomas H.: *See—*
McMahon, Joseph F.; and Milliken, Thomas H.,3,476,536.
Milliken, Thomas J., to Meyercord Co., The. Method of applying a vitreous decalcomania. 3,441,458, 4-29-69, Cl. 156-89.
Milliken, Thomas J., to Meyercord Co., The. Method of applying a vitreous decalcomania. 3,445,309, 5-20-69, Cl. 156-89.
Millington, David Everitt: *See—*
Stacey, Michael Albert; and Millington, David Everitt,3,468,017.
Millipore Corporation: *See—*
Ray, Richard W.; and Campbell, Stephen P., Jr., 3,450,319.
Trasen, Ben; Weyand, John E.; and Rising, Donald B., 3,471,019.
Millis, Walter T., to General Electric Company. Electric discharge device with means to prevent release of occluded gases from the envelope thereof and method. 3,465,196, 9-2-69, Cl. 313-313.
Millman, Nathan: *See—*
Iannicelli, Joseph; Millman, Nathan; and Stone, William J. D.,3,471,011.
Millmaster Chemical Corporation: *See—*
Adams, Phillip; and Juliano, Benedict, 3,422,108.
Millmaster Onyx Corporation: *See—*
Cohen, Sidney; and Shay, Edward Griffin, 3,437,419.
Cohen, Sidney; and Schlesinger, Morton, 3,454,423.
Dudzinski, Zdzislaw F., 3,436,420.
Findlan, John C.; Sorrentino, Ralph P.; and Wakeman, Rginald L., 3,484,523.
Mahnken, Henry, 3,432,555.
Mahnken, Henry, 3,463,817.
Petrocci, Alfonso N.; Prodo, Kenneth W.; Shay, Edward G.; and Wakeman, Reginald L., 3,472,939.
Wakeman, Reginald L.; and Coates, Joseph F., 3,427,316.
Wakeman, Reginald L.; and Coates, Joseph F., 3,431,265.
Wakeman, Reginald L.; and Coates, Joseph F., 3,435,039.
Wakeman, Reginald L., 3,471,319.
Wakeman, Reginald L.; and Shay, Edward Griffin, 3,471,562.
Wakeman, Reginald L., 3,479,406.
Millois, Robert; Peiffert, Jean; and Stcherbatcheff, Georges, to Oxymill S.A. Variable frequency polyphase current generator for controlling the speed of an electric motor. 3,453,515, 7-1-69, Cl. 318-207.
Millonig, Robert C.: *See—*
Myers, Dirck V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B.,3,458,397.
Mills, Arnold T., to Hilux Holdings Societe Anonyme, mesne. Valve for controlling the rate of flow of solids. 3,430,654, 3-4-69, Cl. 137-625.28
Mills, Aubrey Robert, to Die Casting Machine Tools Limited. Model vehicles. 3,446,529, 5-27-69, Cl. 296-146.
Mills, Edward J., Jr.; and Suter, John F., to Union Carbide Corporation. Method of preparing tape joint cement. 3,483,156, 12-9-69, Cl. 260-29.6
Mills, Edwin R., to Fieldcrest Mills, Inc. Electrically heated bedcovering. 3,423,567, 1-21-69, Cl. 219-212.
Mills, Everett C., to Alscope Limited, mesne. Process for making pulp by impregnating cellulosic materials with ammonium hydroxide and nitric aid. 3,461,028, 8-12-69, Cl. 162-81.
Mills, Frank S.: *See—*
Luck, James R.; and Mills, Frank S.,3,477,576.
Mills, Franky D.: *See—*
Hamby, J. W.; and Mills, Franky D.,3,430,702.
Mills, George A. Apparatus for transmitting and receiving a high frequency transient over a power line. 3,462,756, 8-19-69, Cl. 340-310.
Mills, George Alexander: *See—*
Cornelius, Edward B.; McEvoy, James E.; and Mills, George Alexander,3,455,842.
Mills, George B.: *See—*
Hill, Robert E.; Mills, George B.; and Morriss, Reuben M., Jr.,3,474,172.
Mills, George M.: *See—*
Parker, James F., Jr.; and Mills, George M.,3,452,451.
Mills, George S.: *See—*
Freifeld, Milton; Mills, George S.; and Nelson, Richard J.,3,426,099.
Mills, George, to Colgate-Palmolive Company. Apparatus for making steel wool pads. 3,467,056, 9-16-69, Cl. 118-40.
Mills, Gerald F., to British Thermostat Company Limited, The. Bellows assemblies. 3,457,839, 7-29-69, Cl. 92-34.
Mills, Ivor W.; and Dimeler, Glenn R., to Sun Oil Company. Clay treatment of hydrorefined cable oils. 3,462,358, 8-19-69, Cl. 208-14.
Mills, Jack F., to Dow Chemical Company, The. Control of microorganisms with polyhalide resins. 3,462,363, 8-19-69, Cl. 210-37.
Mills, Jack F.; and McAnallen, Charles K., to Dow Chemical Company, The. 2-Oxazolidinones as stabilizers for aqueous chlorine solutions. 3,452,137, 6-24-69, Cl. 424-149.
Mills, Jack, to Lilly, Eli, and Company. Aryl acetamidines. 3,445,517, 5-20-69, Cl. 260-564.
Mills, Jack; and Pfeifer, William, to Lilly, Eli, and Company. Novel aryl-substituted propenes and derivatives. 3,422,153, 1-14-69, Cl. 260-612.
Mills, James, Limited, executors of: *See—*
Travis, Alfred; and Croft, Philip, 3,476,371.
Mills, John Arthur, to Borden Company, The. Process for bonding surfaces. 3,437,542, 4-8-69, Cl. 156-331.
Mills, John Cunningham, to Commonwealth Scientific and Industrial Research Organization. Apparatus for positioning specimens in electron microscopes or electron diffraction cameras. 3,476,936, 11-4-69, Cl. 250-49.5
Mills, John E.; and Getz, Edward J., to Westinghouse Electric Corporation. Protective wrapper for tubular articles such as fluorescent lamps and the like. 3,476,235, 11-4-69, Cl. 206-46.
Mills, John Penrose, to Hobson, H. M., Limited. Hydraulically operated self- adjusting steady rest. 3,427,762, 2-18-69, Cl. 51-238.
Mills, John Penrose, to Hobson, H. M., Limited. Grinding machines. 3,479,773, 11-25-69, Cl. 51--165
Mills, John P.: *See—*
Sargent, John C.; Blome, James C.; Tims, Walter D.; and Mills, John P.,3,475,262.
Mills, Kenneth R.: *See—*
Drake, William O.; and Mills, Kenneth R.,3,484,402.
Mills, Maurice Robert, to Lever Brothers Company. Polymeric products. 3,465,008, 9-2-69, Cl. 260-396.
Mills, Norman T.: *See—*
Pray, Ralph E.; and Mills, Norman T.,3,479,135.
Mills, Phillip J.: *See—*
Delcellier, Henri A.; and Mills, Phillip J.,3,448,858.
Mills, Robert H., to Monsanto Company. Preparation of aliphatic benzyl esters. 3,483,247, 12-9-69, Cl. 260-475.
Mills, Samuel M.; and Husar, Karel, to Stone Straw Corporation. Method of making helically wound bodies having plastic material extruded on their inner walls. 3,453,163, 7-1-69, Cl. 156-190.
Mills, Stacey M.: *See—*
Holt, Hugh M.; Kelsey, Eugene L.; and Mills, Stacey M.,3,434,033.

Mills, Stanley M., to Black Sivalls and Bryson, Inc. Safety pressure relief device. 3,463,351, 8-26-69, Cl. 220-89.
Mills, Tonk: *See—*
Mills, Tonk; and Lynn, William J., 3,444,622.
Mills, Tonk; and Lynn, William J., said Mills, Tonk assors. to Mills, Tonk, as trustee. Air operated vibrator for dentistry. 3,444,622, 5-20-69, Cl. 32-56.
Mills, Warren L. Clinch heel and toe plate. 3,456,367, 7-22-69, Cl. 36-74.
Mills, William R., Jr., to Mobil Oil Corporation. Use of gamma ray and thermal neutron well logs to correct macroscopic absorption cross section measurements. 3,420,998, 1-7-69, Cl. 250-83.3
Millsapps, Stuart C., Jr., to Hughes Tool Company. Raise drilling apparatus. 3,460,638, 8-12-69, Cl. 175-85.
Millward, Arthur W., to National Acme Company, The. Friction mechanism adjustment with wear indicator. 3,420,346, 1-7-69, Cl. 192-111.
Millwood, William H.; and Morison, David G., to Welders, A. I., Limited. Automatic machines for stripping weld-upset from welded railway track rails and the like. 3,451,309, 6-24-69, Cl. 90-24.
Milly, John J., to United States of America, National Aeronautics and Space Administration. Satellite despin device. 3,465,986, 9-9-69, Cl. 244-1.
Milne, Alistair: *See—*
Crawley, John; Saunders, Alan; Milne, Alistair; and Campbell, William Henry,3,431,825.
Milne, George W.; and Schultz, Donald F., Jr., to Western Electric Company, Incorporated. Article dispensing mechanism. 3,451,591, 6-24-69, Cl. 221-277.
Milne, James A.; and Johnston, Robert E., to Weyerhaeuser Company. Reinforced partitioned container. 3,452,920, 7-1-69, Cl. 229-27.
Milne, James F.: *See—*
Chow, Allan I.; and Milne, James F.,3,430,226.
Milne, James I. Heatable food container. 3,482,078, 12-2-69, Cl. 219-387.
Milne, William S.: *See—*
Dain, John E.; and Milne, William S.,3,430,738.
Milner, Ernest; and Davies, Gwyn, to A. B. Electronic Components Limited. Push button electrical switches. 3,470,332, 9-30-69, Cl. 200-5.
Milner, Geoffrey, to Power-Gas Corporation Limited, The. Process for de-copperising lead. 3,482,965, 12-9-69, Cl. 75-78.
Milner, James G. Evacuation apparatus. 3,423,130, 1-21-69, Cl. 302-14.
Milnes, James Allen, to RCA Corporation. Electrical switching system which defeats automatic fine tuning control through one switch contact, actuated during manual channel change or manual fine tuning. 3,466,549, 9-9-69, Cl. 325-457.
Milnikel, Clarence E.: *See—*
Schanafelt, Raymond A.; Obear, Robert F.; and Milnikel, Clarence E.,3,421,266.
Milo, August. Grounding clamp with automatic disconnect. 3,470,523, 9-30-69, Cl. 339-45.
Milochevitch, Alexandre; and Rousseau, Serge, to Compagnie Generale d'Electricite. Liquid laser construction. 3,480,874, 11-25-69, Cl. 330-4.3
Milon, Jean Emile: *See—*
Jousset, Antoine Marie; Jacquart, Christian Augustin; Le Goffic, Yves Henri; and Milon, Jean Emile,3,465,249.
Milone, Gaetano. Double zippered garments. 3,448,463, 6-10-69, Cl. 2-234.
Milone, Giovanni; Bonaudo, Rodolfo; and Ivaldi, Franco. Device for pressing animal skins. 3,473,244, 10-21-69, Cl. 38-8.
Milosevic, Milan: *See—*
Ser, Filip; Milosevic, Milan; and Bulatovic, Predrag,3,473,656.
Milosevich, Charles: *See—*
Bunn, Willis P.; Milosevich, Charles; and Mosher, Robert E.,3,452,280.
Milosevich, Vincent. Wire line core barrel apparatus. 3,485,310, 12-23-69, Cl. 175-246.
Milroy, Philip R., to General Electric Company. Lumianire. 3,457,399, 7-22-69, Cl. 240-25.
Milroy, Warren E., to United States of America, Navy. Electrooptic cursor manipulator with associated logic circuitry. 3,478,220, 11-11-69, Cl. 250-221.
Milstein, Herman: *See—*
Marley, Walter M.; and Milstein, Herman,3,424,200.
Miltenberger, Kenneth L., to McDonnell Douglas Corporation, mesne. Apparatus for forming sheet metal. 3,451,247, 6-24-69, Cl. 72-346.
Miltenberger, William E.: *See—*
Donovan, Thomas A.; and Miltenberger, William E.,3,443,397.
Milton Industries Incorporated: *See—*
Palson , Richard C. J.; and Hawes, James E., 3,466,963.
Milton, Kriby M., to Eastman Kodak Company. Stabilization of synergistically sensitized photographic systems. 3,420,670, 1-7-69, Cl. 96-109.
Milton Manufacturing Company, Inc.: *See—*
Mazcika, Albert, 3,429,332.
Milton, Ray, Company: *See—*
Serfass, Earl J.; Martin, John E.; and Wilson, William E., Jr., 3,441,136.
Milton Roy Company: *See—*
Serfass, Earl J., 3,440,016.
Milu, Charles, to All Tech Industries, Inc. Retaining means for securing fabric on the playing surface of a pool table. 3,463,488, 8-26-69, Cl. 273-7.
Milutin, Ivan Cutukovic: *See—*
Bartell, Charles; Milutin, Ivan Cutukovic; Porsche, Jules Downes; and Rolih, Robert John,3,475,196.
Milwaukee Blood Center, Inc.: *See—*
Greenwalt, Tibor J.; and Gajewski, Mieczyslaw, 3,462,361.
Milwaukee Chaplet & Mfg. Company, Inc.: *See—*
Ahrens, Robert H., 3,437,766.
Ahrens, Robert H., 3,470,338.
Roberts, James S., 3,470,335.
Milwaukee Dustless Brush Company: *See—*
Hunt, George B., 3,481,017.
Milwaukee Electric Tool Corporation: *See—*
Ristow, Edward W., 3,451,514.
Schnettler, Jerome L., 3,454,055.
Milwidsky, Ben-Zion: *See—*
Holzman, Suzana; and Milwidsky, Ben-Zion,3,422,138.
Milyaev, Boris Fedorovich: *See—*
Grechin, Vyacheslav Petrovich; Oreshnikov, Zakhar Alexeevich; and Milyaev, Boris Fedorovich,3,460,608.
Milyaev, Viktor Vasilievich: *See—*
Svilpe, Karl Yanovich; Luft, Genakh Maxovich; Betiyan, Andris Alfredovich; Milyaev, Viktor Vasilievich; Gurevich, Leib Borukhovich; and Seleznev, Ivan Vasilievich,3,432,790.
Mima, Hiroyuki; Noda, Etsunosuke; and Banba, Hiroto, to Takeda Chemical Industries, Ltd. Soft gelatin sheet for soft gelatin capsule. 3,456,051, 7-15-69, Cl. 424-37.
Mimatsu, Ken: *See—*
Kosaka, Kenzo; Tsunewaki, Masami; Yonekura, Nobuaki; Okaya, Tsutomu; Mimatsu, Ken; and Mori, Tatsujiro,3,446,005.
Mimino, Tohru: *See—*
Kubota, Hiroyuki; Mimino, Tohru; Fukuda, Yuh; Ishizu, Yoshio; and Nago, Toshio,3,443,934.
Mimken, Frederick J.; and Howard, Dwight T., to United States of America, Navy, mesne. Cochannel signal eliminator. 3,437,835, 4-8-69, Cl. 307-235.
Mims, Philip B. Elevated modular building construction. 3,452,493, 7-1-69, Cl. 52-73.
Mimura, Hiroshi: *See—*
Nagashima, Shinichi; Ooka, Takayuki; Mimura, Hiroshi; and Fujishima, Toshiyuki,3,444,011.
Mimura, Yoshiaki: *See—*
Nagatsu, Hiroshi; Mimura, Yoshiaki; Izumi, Hideo; and Masuda, Yoshihiro,3,436,614.
Minagawa, Katsuji: *See—*
Ikeda, Koichi; and Minagawa, Katsuji,3,425,817.
Ikeda, Koichi; Minagawa, Katsuji; and Nakagawa, Toru,3,462,298.
Yamamoto, Hiroshi; Ikeda, Koichi; and Minagawa, Katsuji,3,468,752.
Minakami, Haruhiko: *See—*
Iwai, Issei; Seki, Isao; Minakami, Haruhiko; Kobayashi, Shinsaku; Inada, Satoru; and Kumakura, Seiji,3,471,502.
Minami, Kuniyuki: *See—*
Matsuzaki, Teizo; Minami, Kuniyuki; and Sasagawa, Yoshiaki,3,439,849.
Minami, Shinichi; and Ogawa, Jun, to Matsushita Electric Industrial Co., Ltd. Method for the manufacture of titanium anodic oxidation film capacitors having non-electrolytically plated cathode. 3,454,473, 7-8-69, Cl. 204-38.
Minami, Shinsaku: *See—*
Ichimi, Teruhiko; Okazaki, Takeshi; Tsutsui, Nobuhiro; and Minami, Shinsaku,3,455,771.
Nakagawa, Kazumi; Kuratani, Keijiro; Tsutsui, Nobuhiro; and Minami, Shinsaku,3,463,846.
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki,3,470,164.
Minami, Shinsaku; Fujita, Akio; Shimizu, Masanao; and Takase, Yoshiyuki, to Dainippon Pharmaceutical Co., Ltd.[2-(5-Nitro-2-furyl)-vinyl]-pyrimidine derivative and process for the preparation thereof. 3,464,982, 9-2-69, Cl. 260-240.
Minami, Shoichiro: *See—*
Sakuragi, Taketami; Jyo, Yoshio; Akiyama, Shinichi; and Minami, Shoichiro,3,454,446.
Minami, Zenro: *See—*
Ukita, Tomizo; Nakai, Masashi; Minami, Zenro; Yamazaki, Toshio; and Ootaka, Koda,3,455,696.
Minamikawa, Yoshihisa: *See—*
Katagiri, Shinjiro; and Minamikawa, Yoshihisa,3,476,972.
Minard, Charles D.; and Francis, Arthur B., to Varian Associates. Multiple beam interferometer. 3,442,594, 5-6-69, Cl. 356-109.

Minard, Everett S.; and Smith, Robert L., to Chemetron Corporation. Rotary filling machine. 3,421,555, 1-14-69, Cl. 141-150.
Minardi, Oresto A.; and Manoogian, Dickran, to Entwistle Company, The. Automatic reel winding changeover method and system. 3,463,407, 8-26-69, Cl. 242-25.
Minarik Electric Company: *See*—
Mason, Raymond J., 3,441,826.
Mason, Raymond J., 3,447,055.
Minas, Harold Y. Method for testing the sensitivity of eyes to light. 3,425,772, 2-4-69, Cl. 351-39.
Minas, Harold Y. Retinal irradiation measuring device. 3,436,146, 4-1-69, Cl. 351-1.
Minasy, Arthur J. Swimming pool construction. 3,443,263, 5-13-69, Cl. 4-172.
Minato, Hitoshi. Synthesis of furan compounds including pharmacologically active furyl steroids. 3,432,486, 3-11-69, Cl. 260-210.5
Minchak, Robert J., to Goodrich-Gulf Chemicals, Incorporated. Polymerization with aluminum-iodine type catalysts. 3,449,312, 6-10-69, Cl. 260-94.3
Minchenko, George, to Bell Telephone Laboratories, Incorporated. Call progress signal detector for switching systems. 3,454,720, 7-8-69, Cl. 179-1.
Minchenko, Hildegard M.: *See*—
McMaster, Robert C.; Libby, Charles C.; and Minchenko, Hildegard M.,3,475,628.
Minchom, Raphael Isaac. Demonstration of magnetic phenomena. 3,432,941, 3-18-69, Cl. 35-19.
Mincielli, Frank J.; and Mincielli, Yvonne. Device for controlling the rate of flow of a fluid. 3,420,449, 1-7-69, Cl. 239-576.
Mincielli, Yvonne: *See*—
Mincielli, Frank J.; and Mincielli, Yvonne,3,420,449.
Minciotti, Albert A.; and Grau, Richard, to Conductron Corporation. Double magnetic-fluid clutch system for servo- control mechanism. 3,439,787, 4-22-69, Cl. 192-21.5
Mindell, Marvin I., to Viewlex, Inc. Control means for copy machines. 3,444,354, 5-13-69, Cl. 219-216.
Mindell, Marvin I.; Heikkila, Andrew E.; Harrison, Henry; and Wolz, Rudolph G., to Viewlex, Inc. Stall detector for rotatable shaft. 3,477,008, 11-4-69, Cl. 318-461.
Mindell, Marvin; and Rudzitis, Karl, to Viewlex, Inc. Automatic record player. 3,480,282, 11-25-69, Cl. 274-9.
Mindick, Morris: *See*—
Lewis, William R.; Bird, Wilmer L.; and Mindick, Morris,3,454,488.
Mindick, Morris; and Reven, Lewis E., to Nalco Chemical Company. Method of producing acid silica sols. 3,468,813, 9-23-69, Cl. 252-313.
Mine Safety Appliances Company: *See*—
Andrews, Paul D.; and Bub, Robert A., 3,447,691.
Austin, Harry W.; and Hess, William C., 3,458,864.
Brinkhoff, Carl H., 3,454,964.
Edwards, Lawrence J., 3,450,638.
Edwards, Lawrence J.; and Hough, William V., 3,460,905.
Hefferan, Gerald T., 3,426,071.
Hiltz, Ralph H., 3,477,955.
Hough, William V.; and Hefferan, Gerald T., 3,455,660.
Hough, William V.; and Cooper, William J., 3,455,661.
Huff, George F.; and Voegtly, Richard O., 3,434,458.
Jacobson, Moses G.; and De Luca, Frank J., 3,455,807.
Juhola, Arvo J.; and Pferdehirt, Thomas A., 3,438,884.
Makhlouf, Joseph M., 3,437,456.
Marshall, Mervin D.; and Lewis, Leon L., 3,472,634.
Mausteller, John W., 3,443,907.
Mausteller, John W.; Billetdeaux, Adrian C.; and Freilino, Ray S., 3,471,698.
McConnaughey, Paul W., 3,455,654.
McGoff, Miles J.; and Heckel, Verne K., 3,436,191.
Plantz, Charles A.; and Hannan, David G., 3,455,655.
Plantz, Charles A.; Jenca, Cecelia C.; and McConnaughey, Paul W., 3,482,944.
Roberts, Charles C.; and Hannan, David G., 3,455,656.
Temple, Robert; Temple, Ernest E.; and Giebel, Joseph L., 3,449,993.
Tepper, Frederick, 3,446,744.
Mine Safety Appliances Italiana S.p.A.: *See*—
Meyer, Emilio G., 3,435,662.
Mine, Yukio: *See*—
Akiyama, Susumu; and Mine, Yukio,3,473,136.
Minehisa, Setsuji: *See*—
Nakai, Tsuneo; Minehisa, Setsuji; Fuchino, Yoshio; and Tsuchihira, Hisao,3,446,931.
Minekawa, Saburo; Yamaguchi, Koretaka; and Sakamoto, Kuniaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing copolymer. 3,470,144, 9-30-69, Cl. 260-85.3
Minekawa, Saburo; Yamaguchi, Koretaka; Toyomoto, Kazuo; Fujimoto, Einosuke; and Suzuki, Teruhiko, to Asahi Kasei Kogyo Kabushiki Kaisha. Flexible explosive compositions containing block copolymers. 3,449,179, 6-10-69, Cl. 149-19.
Miner Industries Inc.: *See*—
Green, Joseph, 3,422,562.
Green, Joseph, 3,457,669.
Lewis, Richard J., 3,457,670.
Swee, Eugene; and Bloom, William, 3,449,560.
Miner, Irving O.: *See*—
Cary, Francis H.; Miner, Irving O.; and Szilagyi, Dezso,3,442,489.
Miner, Jay G.: *See*—
Bogert, Howard Z.; and Miner, Jay G.,3,447,136.
Bogert, Howard Z.; and Miner, Jay G.,3,453,601.
Miner, Jay G., to Philco-Ford Corporation. Character and decimal point generator. 3,474,439, 10-21-69, Cl. 340-324.
Miner, Leland P.: *See*—
Fiorelli, Arthur C.; and Miner, Leland P.,3,461,939.
Miner, Robert C.: *See*—
Barows, Arthur G.; Parrish, Edward W.; and Miner, Robert C.,3,442,380.
Miner, Robert G., to Trane Company, The. Fan speed control for refrigeration system. 3,462,965, 8-26-69, Cl. 62-180.
Miner, Robert G., to Trane Company, The. Refrigerant apparatus control. 3,469,413, 9-30-69, Cl. 62-184.
Miner, Robert G., to Trane Company, The. Motor control for refrigeration system. 3,479,837, 11-25-69, Cl. 62-230.
Miner, Robert G.: *See*—
Schroder, Albert W.; and Miner, Robert G.,3,433,243.
Miner, W. H., Inc.: *See*—
Farmer, William Kendrick, 3,461,817.
La Belle, Laurence T., 3,453,902.
Olander, Roland J., 3,440,682.
Miner, William W.; and Johnson, Lynn F., to SFM Corporation, mesne. Method and apparatus for processing waste material. 3,426,673, 2-11-69, Cl. 100-37.
Miner-Denver, Inc.: *See*—
Pierson, Edward D.; and Wright, James C., 3,481,499.
Wright, James C., 3,440,819.
Minerais et Metaux: *See*—
Tabourin, Jean F., 3,466,146.
Mineralimpex Magyar Olaj-es Banyatermek Kulkereskedelmi Vallalat: *See*—
Uliczky, Sandor; and Zsoka, Istvan, 3,447,605.
Mines de Potasse d'Alsace S.A.:*See*—
Burr, Richard, 3,485,356.
Mines, Ronald E.: *See*—
Fultz, Jack V.; and Mines, Ronald E.,3,462,999.
Mineshima, Teruo: *See*—
Doi, Tatsumi; Mineshima, Teruo; and Saito, Etsuro,3,480,361.
Minesota Mining and Manufacturing Company: *See*—
Kaspaul, Alfred F.; and Kaspaul, Erika E., 3,462,762.
Minett, Ernest Everet; and Weigl , John W., said Minett assor. to Xerox Corporation. Apparatus for justifying a reproduced line of characters. 3,478,659, 11-18-69, Cl. 95-4.5
Minford, John Norman: *See*—
Haworth, Ernest; and Minford, John Norman,3,471,452.
Ming, Joseph W.: *See*—
Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo,3,483,523.
Minghetti, Anacleto: *See*—
Amici, Alba Maria; Minghetti, Anacleto; Scotti, Tullio; Spalla, Celestino; and Tognoli, Luigi,3,485,722.
Miniature Electronic Components Corp.: *See*—
Anderholm, Ferd R., 3,451,056.
Pihl, George E., 3,422,351.
Pihl, George E.; and Tilley, Richard B., 3,425,055.
Pihl, George E., 3,436,752.
Pihl, George E., 3,451,055.
Pihl, George E., 3,456,123.
Pihl, George E., 3,465,333.
Pihl, George E., 3,487,403.
Minick, Carl Edward: *See*—
Perkins, Frederick G.; and Minick, Carl Edward,3,441,829.
Minicucci, Peter, Jr.: *See*—
Boyce, David B.; Minicucci, Peter, Jr.; and Stegenga, Jerry A.,3,446,328.
Minieri, Pasquale P.: *See*—
Barch, John J.; and Minieri, Pasquale P.,3,437,678.
Minieri, Pasquale P., to Tenneco Chemicals Inc. Dialkyltin substituted phthalates. 3,454,611, 7-8-69, Cl. 260-429.7
Minieri, Pasquale P., to Tenneco Chemicals, Inc. Dialkyltin 1,4-endoalkylene-2,3-dihydrophthalates and -1,2,3,6-tetrahydrophthalates. 3,479,380, 11-18-69, Cl. 260-429.7
Minigrip, Inc.: *See*—
Gotz, Walter O., 3,473,589.
Minijector Corporation: *See*—
Jemison, Volney M., 3,486,455.
Mining & Chemical Products Limited: *See*—
Chaimowicz, Jean-Claude Adam, 3,475,617.
Mining Progress Inc.: *See*—
Webster, Frederick, 3,433,533.

Mining Progress Inc., mense: *See—*
Pentith, Gerald R. O., 3,420,577.
Minisci, Francesco; Belvedere, Giuseppe; Cecere, Mirella; and Quilico, Adolfo, to Montecatini Edison S.p.A. Process for the preparation of adipic acid. 3,444,194, 5-13-69, Cl. 260-531.
Minisci, Francesco; Galli, Remo; and Quilico, Adolfo, to Montecatini Edison S.p.A. Process for the preparation of aromatic N-alkylamines. 3,483,255, 12-9-69, Cl. 260-576.
Minister of Technology, The: *See—*
Jason, Alfred C., 3,474,221.
Ministeral Industrici Alimentare: *See—*
Solcanicov, Vladimir; Pop, Laurentiu Ion; and Breicher, Erich, 3,468,141.
Ministerul Industrici Chimice: *See—*
Ceausescu, Elena; and Fieroiu, Victoria, 3,434,523.
Moldovan, Iuliu; and Man, Marincla, 3,466,141.
Moldovan Velniceriu, Adrian; and Mihaiu, Traian, 3,467,689.
Moscovici, Anuta; Maricuta, Nicolae; and Cocosco, Elizabeta, 3,472,623.
Potop, Petre; and Brandus, Liviu, 3,477,205.
Socolescu, Grigore O., 3,450,523.
Ministerul Industrici Constructiilor: *See—*
Luca, Vasile; Runceanu, Gheorghe; Cosmescu, Ctin; and Ionescu, Alexandru, 3,428,288.
Ministerul Industrici Constructiilor de Masini: *See—*
Ionescu, Emil, 3,462,088.
Marinescu, Matei, 3,431,477.
Subovici, Vadim, 3,460,367.
Teodorescu, Honoriu Dan, 3,486,078.
Ministerul Industriei Constructülor de Masini: *See—*
Belousov, Vitalic; Alecsandrescu, Constantin-Jean; Zmau, Gheorghe; and Stan, Mihaita, 3,448,545.
Ministerul Petrolului: *See—*
Adamache, Ion; and Iacob, Ioan, 3,469,629.
Patron, Teodor; Niculescu, Ion Alexandru; and Anastasescu, Efrem, 3,450,203.
Ministry of International Trade & Industry: *See—*
Fukuta, Kenji; and Watanabe, Yoshiyuki, 3,440,811.
Minjolle, Louis, to Commissariat a l'Energie Atomique. Device for automatically supplying welding rods to blowpipes. 3,462,060, 8-19-69, Cl. 228-41.
Minklei, Alfred O.; Dexter, Theodore H.; Sconce, James S.; and Thorstensen, Thomas C., to Hooker Chemical Corporation. 12 or higher mol alkali metal hydroxide-1 mol sodium hydroxide reaction product, depilatories and depilation therewith. 3,421,832, 1-14-69, Cl. 8-94.16
Minks, Floyd M., to Brunswick Corporation, mesne. Regulated power supply including a blocking oscillator and trigger means to turn off the oscillator. 3,421,069, 1-7-69, Cl. 321-2.
Minks, Floyd M., to Brunswick Corporation, mesne. Capacitor ignition system. 3,427,502, 2-11-69, Cl. 315-209.
Minks, Floyd M., to Brunswick Corporation, mesne. Housing and mounting for ignition trigger circuit. 3,435,265, 3-25-69, Cl. 310-70.
Minks, Floyd M., to Brunswick Corporation. Resistor unit and method of making same. 3,440,589, 4-22-69, Cl. 338-22.
Minks, Floyd M., to Brunswick Corporation, mesne. Transformer structure and method of making the same. 3,448,423, 6-3-69, Cl. 336-96.
Minks, Floyd M., to Brunswick Corporation, mesne. Triggered ignition system. 3,462,644, 8-19-69, Cl. 315-209.
Minks, Paul R.: *See—*
Hanson, Alan R.; Minks, Paul R.; and Moe, Oliver M.,3,421,865.
Minnaja, Nicola: *See—*
Forlani, Franco; and Minnaja, Nicola,3,483,445.
Minneapolis Sewing Machine Inc.: *See—*
Scharmer, Edward H., Jr., 3,425,377.
Minnerly, Harold E., Jr.; and Jorgensen, August H., Jr., to Goodrich, B. F., Company, The. Sulfur vulcanizable acrylate-cyclic diene elastomers. 3,487,054, 12-30-69, Cl. 260-79.5
Minnesota Automotive, Inc.: *See—*
Lagerguist, William, 3,478,518.
Minnesota Mining and Manufacturing Company: *See—*
Adams, Roger J., 3,486,961.
Ahlbrecht, Arthur H., 3,450,755.
Allen, Michael G.; Errede, Louis A.; and Hannula, Rodney R., 3,479,877.
Alseth, Gilmore Noble, 3,439,905.
Anderson, Glenn R.; and Svendsen, John A., 3,428,400.
Anderson, Glenn R., 3,455,276.
Appeldorn, Roger H., 3,457,400.
Arens, Robert P.; and Sweeny, Norman P., 3,423,489.
Bader, William F.; Landy, Arney, Jr.; and Schmitz, Marvin J., 3,434,151.
Benjamin, John G., 3,430,952.
Benjamin, John G., 3,452,981.
Benson, Burton A., 3,475,513.
Berg, John R.; and Wiese, Joseph A., Jr., 3,483,013.
Berglund, Robert S., 3,483,427.
Bildusas, Leonas L., 3,471,357.
Birnbaum, Herman A.; and Quigley, Stephen T., 3,485,864.
Bollmeier, Emil Wayne, 3,461,354.
Bond, Herbert M., 3,486,934.
Bradford, Robert S., 3,423,524.
Bresina, Larry J.; and Miller, Richard A., 3,420,732.
Brown, Harvey A., 3,486,899.
Bryan, Thomas Toplica, 3,443,948.
Bryan, Thomas Toplica, 3,458,544.
Carlson, Ronald A.; and Gerharter, Thomas M., 3,422,979.
Casey, James H., 3,472,724.
Chang, Robert W. H., 3,452,437.
Clark, Bryce L.; and Miller, Carl S., 3,481,760.
Clunis, Kenneth, 3,427,628.
Colvin, Ronald L.; and Manske, Wendell J., 3,486,752.
Crawford, George H., Jr., 3,436,384.
Crisler, Dale F., 3,428,907.
Danielson, Alton J.; Erwin, James V.; and Berg, Harold A., 3,445,310.
Davis, Horace R.; and Taylor, Charles W., 3,455,736.
Dickson, Arthur D.; and Peters, Edward M., 3,484,183.
Donnelly, Charles A., Jr.; Gaffron, Bernard W.; and Stoll, Marvin A., 3,467,470.
Dubbe, Richard F.; and Reed, Edward W., Jr., 3,444,317.
Duffin, George F.; and Hogg, James W., 3,462,272.
Errede, Louis A., 3,440,228.
Erwin, James V., 3,452,861.
Esmay, Donald L.; and Kottong, Gerald W., 3,450,762.
Frand, Erwin A.; and Clark, Samuel M., 3,457,739.
Freeman, Charles R.; and Sauer, Charlotte I., 3,451,537.
Frigstad, Robert A., 3,449,280.
Frigstad, Robert A., 3,472,730.
Gaynor, Gerard H., 3,483,468.
Gobran, Ramsis; and Ofstead, Ronald F., 3,436,222.
Golben, Michael, 3,460,977.
Good, Paul J., 3,423,037.
Good, Paul J., 3,441,186.
Goodell, John D.; Ivins, Barbara; Wistrand, John C.; and Tasi, Vasil, 3,424,393.
Grundman, Roger V., 3,436,245.
Guenthner, Richard A., 3,471,484.
Guenthner, Richard A.; and Lazerte, James D., 3,484,281.
Halberg, Robert A.; and Sundquist, John L., 3,472,585.
Haller, James R., 3,428,602.
Hansen, Robert L., 3,476,705.
Hansen, Robert L., 3,476,753.
Harnish, Wayne O.; and Nettekoven, William F., 3,462,206.
Harrison, George C., 3,422,589.
Harrison, George C., 3,461,844.
Heine, Richard F., 3,423,234.
Heine, Richard F., 3,442,664.
Hervig, Harold C.; and Leach, Edward E., 3,446,741.
Hill, Ralph L., 3,437,195.
Hipp, Richard D., Jr., 3,419,987.
Hipp, Richard D., Jr., 3,431,967.
Hodge, Frederick J., 3,446,914.
Hodge, Frederick J.; and Barclay, Ralph R., 3,461,230.
Hodge, Frederick J.; and Barclay, Ralph R., 3,463,874.
Hoffman, Jerome J., 3,486,925.
Holmen, Reynold E., 3,427,345.
Holmen, Reynold E., 3,433,766.
Holmen, Reynold E., 3,471,554.
Hoyne, Earl K., 3,460,157.
Hubin, Allen J.; and Smith, Samuel, 3,436,359.
Johnson, James R.; and Sowman, Harold G., 3,436,307.
Johnson, James R., 3,444,925.
Johnson, James R.; and Sowman, Harold G., 3,454,396.
Johnson, Lee W., 3,446,184.
Johnson, Melvin L.; and Le Vasseur, Arnold P., 3,424,127.
Jones, Derrick A., 3,478,664.
Jonnes, Nelson, 3,470,059.
Klass, Nicholas P.; and Reed, Ralph W., 3,449,176.
Kloven, Gerald P., 3,445,166.
Koshar, Robert J.; and Husted, Donald R., 3,461,162.
Kowanko, Nicholas, 3,423,364.
Kutchera, Arthur W., 3,423,204.
Leeke, Paul D.; and Bixler, David A., 3,445,832.
Leeper, Le Roy J.; and Dierssen, Gunther H., 3,475,332.
Lindgren, Raymond E.; and Wickstrom, Svante Theodore, 3,475,564.
Lodge, James R.; and Pauletti, Anthony, 3,475,191.
Lovness, Donald E., 3,428,594.
Lynch, Geraldine B., 3,439,976.
McAvoy, Thomas R.; and Anderson, John R., 3,436,876.
McFadden, James A., 3,473,952.
Meyer, Donald K.; and Tulagin, Vsevolod, 3,420,662.
Meyer, Donald K.; and Coles, Robert F., 3,436,321.
Mitsch, Ronald A., 3,475,520.
Moore, Arthur R., 3,440,550.
Moore, Arthur R., 3,471,721.

Morgan, David A.; and Shely, Benjamin L, 3,457,075.
Mullin, John T., 3,444,445.
Nellessen, Alfred H.; and Schoonover, Robert J., 3,420,597.
Nettekoven, William F., 3,471,030.
Northrup, Walter E.; and Spatafore, Robert M., 3,471,903.
Norton, Randolph; and Ames, Sidney B., 3,475,095.
Ofstead, Ronald F.; and Gobran, Ramsis, 3,453,113.
Ogden, Paul H., 3,427,320.
Olson, Albert Kenneth, 3,424,895.
Ostlie, Dean A., 3,481,759.
Owens, Kenneth E.; and Hatch, Robert A., 3,458,329.
Pagel, Warren C., 3,438,843.
Palmquist, Philip V.; and Jonnes, Nelson, 3,449,201.
Pavlik, Frank J., 3,420,877.
Pavlik, Frank J., 3,465,014.
Peake, John S.; and Arens, Robert P., 3,442,690.
Pearson, John W., 3,442,691.
Petersen, Kurt H.; and Pankow, Paul A. H., 3,469,077.
Peterson, Richard L., 3,441,430.
Power, Frank E., 3,436,173.
Prager, Julianne H.; and Thompson, Phillip G., 3,420,866.
Prager, Julianne H., 3,455,954.
Puerckhauer, Gerhard W. R.; Sagawa, Burt K.; and Wittnebel, Bruce W., 3,460,946.
Randklev, Ronald M.; and Humphries, Clarence Raymond, 3,476,584.
Raymond, Albert E.; Fraser, William J.; and Swedish, Frank, Jr., 3,436,303.
Reed, Edward W., Jr., 3,437,870.
Reinhart, Thomas J., 3,468,744.
Rice, David E.; and Sandberg, Carl L., 3,438,953.
Rice, David E., 3,457,245.
Rice, David E., 3,461,155.
Riedesel, Richard G., 3,433,703.
Ruben, Paul L., 3,449,040.
Rutledge, Robert L.; and Shrewsbury, Raymond W., 3,460,100.
Shepard, Joseph W.; and Shely, Benjamin L., 3,429,706.
Sherman, Patsy O., 3,458,348.
Skoog, Ivan H., 3,482,979.
Sloan, Robert J., 3,479,201.
Smith, David P., 3,480,774.
Smith, George H., 3,440,242.
Smith, Gordon R., 3,426,206.
Smith, Werter Pierce, 3,433,355.
Snell, Robert B.; and Freeman, Charles R., 3,470,127.
Snelling, Charles D., 3,433,929.
Stillo, Horatio Serafino, 3,425,867.
Stow, Robert H., 3,475,213.
Stricklin, Buck, 3,446,617.
Tassone, Vincent Anthony, 3,462,269.
Thompson, Phillip G.; and Prager, Julianne H., 3,442,927.
Thompson, Phillip G., 3,467,718.
Throckmorton, James R., 3,449,371.
Tokoli, Emery G., 3,458,571.
Turula, Eugene; Lynch, Geraldine B.; and Gilkeson, David C., 3,454,327.
Van Dyke Tiers, George, 3,427,336.
Vanstrum, Robert C.; Harrington, Thomas L.; and Tung, Chi Fang, 3,486,952.
Vogel, Herward A.; and Oien, Hans T., 3,431,240.
Warren, Jack K., 3,449,759.
Wedekind, Albert D., 3,434,093.
Wedekind, Albert D., 3,444,506.
Weyand, John D., 3,486,706.
Whittemore, Charles A.; and Heine, Richard F., 3,471,587.
Wiese, Joseph A., Jr., 3,467,951.
Workman, Wesley R., 3,446,648.
Zimmer, Philip H.; and Van Rooij, Joannes F., 3,446,343.
Zollinger, Joseph La Mar, 3,470,176.

Minnesota Rubber Company: *See—*
Rentschler, John H.; and Sewall, Loren J., 3,432,083.
Rentschler, John H.; and Carlson, Robert W., Jr., 3,472,523.

Minnesota, University of, The Regents of the: *See—*
Iwasaki, Iwao, 3,430,763.
Kaster, Robert L., 3,476,143.

Minnick, Chris A. Magnetic spring or shock absorber device. 3,467,973, 9-23-69, Cl. 5-351.

Minnick, Joseph J., to Commercial Solvents Corporation. Ammonium nitrate having diatomaceous earth dispersed therein and method of making same. 3,447,982, 6-3-69, Cl. 149-46.

Minnick, Robert C., to Burroughs Corporation. Storage apparatus for comparing information. 3,438,017, 4-8-69, Cl. 340-174.

Minnicar, Clarence T. Extension trammel. 3,430,347, 3-4-69, Cl. 33-27.

Minnite, Ralph. Segmented mechanical proboscis. 3,420,331, 1-7-69, Cl. 182-41.

Minns, L. E.: *See—*
Isenhour, Burthel B., 3,426,450.

Minohara, Teruaki. Bed with massaging rollers. 3,446,205, 5-27-69, Cl. 128-57.

Minolta Camera Company Ltd.: *See—*
Kubota, Isamu, 3,421,812.
Kubota, Isamu, 3,486,814.

Minolta Camera Kabushiki Kaisha: *See—*
Aoki, Koichi; Yamatani, Noboru; and Takeuchi, Hideo, 3,464,333.
Ishikawa, Toshio; and Noda, Koji, 3,442,589.
Kobayashi, Tatsuo; and Imura, Toshinobu, 3,434,404.
Kobayashi, Tatsuo, 3,463,065.
Konishi, Masaichiro, 3,428,403.
Maeda, Keisuke, 3,426,665.
Namba, Yasuhiro; Kessoku, Kazuo; Fujii, Tadayoshi; Ogura, Toshinobu; and Yoshiyama, Ichiro, 3,476,028.
Tajima, Sakae; Baba, Nobuyoshi; Matsuyama, Shin; and Ono, Masabumi, 3,445,349.
Yoshiyama, Ichiro; and Konishi, Masaichiro, 3,435,747.

Minomiya, Katsumi: *See—*
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi,3,457,226.

Minor, Burt Stanley. Split drill pipe protector. 3,425,757, 2-4-69, Cl. 308-4.

Minor, Burt Stanley. Drill pipe protector. 3,449,022, 6-10-69, Cl. 308-4.

Minor, Melvin R. Cable guide. 3,437,314, 4-8-69, Cl. 254-134.3

Minor, Orval L. Artificial leg having a lockable knee joint responsive to foot pivoting and body weight. 3,453,663, 7-8-69, Cl. 3-23.

Minor, Ralph S., Jr.: *See—*
Grebe, Chauncey L.; Minor, Ralph S., Jr.; and Shelden, Raymond G.,3,428,818.

Minoru, Ohtake: *See—*
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Minoru, Ohtake,3,450,969.

Minot, Seymour. Collapsible swimming pool enclosure. 3,424,179, 1-28-69, Cl. 135-3.

Minott, Peter O., to United States of America, National Aeronautics and Space Administration. Retrodirective optical system. 3,433,960, 3-18-69, Cl. 250-199.

Minovsky, Vladimir Falkovich: *See—*
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.

Minshull, Allen J.; Minshull, Marilyn A.; Minshull, Glenda A.; and Minshull, James B. Racket and ball game. 3,468,536, 9-23-69, Cl. 273-30.

Minshull, Glenda A.: *See—*
Minshull, Allen J.; Minshull, Marilyn A.; Minshull, Glenda A.; and Minshull, James B.,3,468,536.

Minshull, James B.: *See—*
Minshull, Allen J.; Minshull, Marilyn A.; Minshull, Glenda A.; and Minshull, James B.,3,468,536.

Minshull, Marilyn A.: *See—*
Minshull, Allen J.; Minshull, Marilyn A.; Minshull, Glenda A.; and Minshull, James B.,3,468,536.

Minsk, Louis M.: *See—*
King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M.,3,437,486.
King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M.,3,475,175.

Minsk, Louis M., to Eastman Kodak Company. Fog stabilized photographic emulsion. 3,449,126, 6-10-69, Cl. 96-109.

Minsker, Lawrence D. Folding chair. 3,450,432, 6-17-69, Cl. 297-17.

Minsky, Semen B. Wiper housing device. 3,431,577, 3-11-69, Cl. 15-250.04

Minten, Hans, to Menschner, Johannes, Textilmaschinenfabrik. Method of and apparatus for packing, preferably of textile laps or bales in double plastic films. 3,432,981, 3-18-69, Cl. 53-33.

Minten, Hans, to Menschner, Johannes, Textilmaschinenfabrik. Apparatus for packing, preferably of round or flat laps or bales in plastic film packings. 3,432,988, 3-18-69, Cl. 53-229.

Minter, Clarke C. Electrical log-log calculator. 3,473,012, 10-14-69, Cl. 235-197.

Minter, James H. Trawl net system. 3,440,752, 4-29-69, Cl. 43-6.5

Minter, Mearl J.: *See—*
Evers, Robert S.; and Minter, Mearl J.,3,438,151.

Minter, Robert L., to Kollsman Instrument Corporation. Three-dimensional viewer. 3,447,854, 6-3-69, Cl. 350-131.

Minto, Wallace L., to Kinetics Corporation. Low entropy engine. 3,479,817, 11-25-69, Cl. 60-36.

Minton, Clarence W.: *See—*
Causby, Arthur Bennett; and Minton, Clarence W.,3,442,237.

Minton, Clarence W. Knitting machine size changer. 3,469,422, 9-30-69, Cl. 66-155.

Minton, Ernest Dale. Convertible lawn edger and cleaner. 3,441,089, 4-29-69, Cl. 172-14.

Mintz, Leon J.: *See—*
Block, Charles; and Mintz, Leon J.,3,478,316.
Mintz, Martin, to Bissett-Berman Corporation, The. Electrolytic cell with housing comprising electrode and seal portions. 3,423,644, 1-21-69, Cl. 317-231.
Mintz, Martin, to Bissett-Berman Corporation, The. Electrolytic cell with electrically conductive masking surface. 3,423,648, 1-21-69, Cl. 317-231.
Mintz, Martin: *See—*
Plehal, Edward J.; Frick, Gene; and Mintz, Martin,3,423,642.
Minushkin, Bertram: *See—*
Kolodney, Morris; Minushkin, Bertram; and Rosh, Donald M.,3,481,855.
Miokiff, Valva C.: *See—*
Ellis, John H.; and Miokiff, Valva C.,3,444,742.
Mior, Pio P.: *See—*
Ricordeau, Jean P.; and Mior, Pio P.,3,448,477.
Mipro Metal Products Company: *See—*
Ball, Gerald V., 3,471,114.
Miquel, Joseph. Magnetic coupling devices. 3,455,419, 7-15-69, Cl. 188-164.
Mir, Enrique Veiga: *See—*
Ruthrof, Klaus; Schwarzer, Gerhard; Agell, Jose Domenech; Mir, Enrique Veiga; and Artigas, Jesus Colell,3,481,475.
Mira-Pak, Inc.: *See—*
Leasure, William C.; and Crawford, Jerry W., 3,449,134.
Leasure, William C.; and Andrews, John D., 3,458,111.
Mirabile, Frank A.; and Rabel, Steven T., to Allied Chemical Corporation, mesne. Aqueous emulsion of emulsifiable oxidized polyethylene. 3,434,993, 3-25-69, Cl. 260-29.6
Miracle Dental Products, Inc.: *See—*
Schneider, Sidney; and Katz, Harry, 3,460,252.
Miracle Hook Corporation: *See—*
Preston, Louis, 3,476,068.
Miracle Mask, Inc.: *See—*
Fears, Lowell T., 3,459,482.
Miracle, Roland: *See—*
Sharp, Robert E.; and Miracle, Roland,3,439,111.
Miram, George V., to Varian Associates. Linear beam tube employing a shielded beam focus solenoid having a reentrant cathode pole piece. 3,475,644, 10-28-69, Cl. 315-3.5
Miranda, Thomas J.; and Herman, Herbert R., to O'Brien Corporation, The. Polyesters from oxazoline polyols. 3,438,943, 4-15-69, Cl. 260-75.
Mirarchi, Ugo: *See—*
Lubatti, Eugenio; Pappalardo, Salvatore; and Mirarchi, Ugo,3,468,992.
Mirasol, Salustiano S., Jr., to Phillips Petroleum Company. Container assembly structure. 3,485,436, 12-23-69, Cl. 229-51.
Mirbeth, Heinz Georg, to International Standard Electric Corporation. Reed switch. 3,483,492, 12-9-69, Cl. 335-205.
Mircoff, Alex, to Butte Knitting Mills, Div. of Logan, Jonathan, Inc. Apparatus for forming mitered corners in binding strips attached to fabric. 3,425,374, 2-4-69, Cl. 112-138.
Mirkin, Anatoly Zakharovich: *See—*
Olitsky, Vladimir Samsonovich; Mirkin, Anatoly Zakharovich; and Shirokov, Nikolai Borisovich,3,468,439.
Mirliss, Melvin J.: *See—*
Kerry, Harold A.; and Mirliss, Melvin J.,3,451,834.
Miro-Flex Company, Inc.: *See—*
Harkins, George T., 3,444,838.
Miron, Roy R. H.; Huggins, Donald G.; Rinne, John E.; and Summerfelt, Vernon E., to Chevron Research Company. Method of building a corrosion-resistant storage tank. 3,423,264, 1-21-69, Cl. 156-71.
Miron, Simon; and Holmes, Wesley E., to Dow Chemical Company, The. Removal of polymer from process vessels. 3,426,091, 2-4-69, Cl. 260-669.
Mirrlees National Limited: *See—*
Henshaw, John Anthony; and Lea, Kenneth Ellis, 3,421,382.
Pope, Joseph A.; and Appleby, John E. H., 3,433,083.
Pope, Joseph Albert; Lowe, William; and Ellis, Geoffrey Hender Stuart, 3,430,508.
Pope, Joseph Albert; and Appleby, John Edwin Herbert, 3,480,113.
Singh, Virendra, 3,425,512.
Mirtain, Henri, to Societe Francaise du Pneu Englebert. Pneumatic tires. 3,442,315, 5-6-69, Cl. 152-354.
Mirtain, Henri, to Uniroyal Englebert France S.A. Pneumatic tires and breakers therefor. 3,473,594, 10-21-69, Cl. 152-361.
Mirtain, Henri; and Devienne, Andre, to Societe Francaise du Pneu Englebert. Asymmetric tires. 3,435,874, 4-1-69, Cl. 152-352.
Mirtes, Bohumil: *See—*
Hron, Jaroslav; Kliment, Jiri; Kryzanek, Vladimir; Mirtes, Bohumil; and Vytiska, Alois,3,436,751.
Mirviss, Stanley B.: *See—*
Greco, Carl C.; and Mirviss, Stanley B.,3,421,911.
Greco, Carl C.; and Mirviss, Stanley B.,3,453,126.
Misaka, Yoshisuke; Yamamori, Kakunosuke; Machida, Masahiro; and Nakata, Michio, to Sumito Metal Industries, Limited. Controlling method and measuring instrument for the flatness of strips. 3,442,104, 5-6-69, Cl. 72-9.
Misaki, Susumu: *See—*
Watanabe, Shiro; and Misaki, Susumu,3,435,032.
Misauskas, Raimundas V., to Chicago Show Printing Company. Changeable display construction. 3,419,988, 1-7-69, Cl. 40-152.2
Misawa, Akira: *See—*
Iwata, Saburo; and Misawa, Akira,3,475,661.
Misawa, Masanaru: *See—*
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio,3,444,040.
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio,3,458,398.
Misch, Robert D.: *See—*
Daus, Donald A.; and Misch, Robert D.,3,447,506.
Mischel, Philip B., to Petrochemicals Company. Method of granulating fines using an alkyl aryl sulfonate granulating agent. 3,473,912, 10-21-69, Cl. 71-64.
Mischel, Philip B.; and Patrick, John W., to Petrochemicals Company, Inc. Method of producing granular diammonium phosphate. 3,485,580, 12-23-69, Cl. 23-107.
Mischke, Charles R., to Whirlpool Corporation. Washing machine with adjustable agitation vanes. 3,446,044, 5-27-69, Cl. 68-133.
Mise, Noritoshi: *See—*
Ogura, Junji; Mise, Noritoshi; Yokoo, Makoto; and Hatanaka, Yoshihiro,3,478,089.
Mise, Nritoshi: *See—*
Matsui, Yutaka; Hashimoto, Norishige; and Mise, Nritoshi,3,480,567.
Misencik, John J., to Westinghouse Electric Corporation. Solid state control switch with instant on characteristic and low wattage components. 3,450,939, 6-17-69, Cl. 315-156.
Misencik, John; and Lee, Sung C., to Hubbell, Harvey, Incorporated. Phase controlled alternating current circuit. 3,434,039, 3-18-69, Cl. 323-22.
Misener, Cecil D.: *See—*
Staats, Louis T., Sr.; Misener, Cecil D.; and Innis, Frank B.,3,475,888.
Misener, Garland C., 1/2 to Capital Film Laboratories, Inc. Additive color scenetester. 3,482,914, 12-9-69, Cl. 355-36.
Misenheimer, James R.; and Keith, Charles H., to Celanese Corporation. Tobacco smoke filters. 3,426,765, 2-11-69, Cl. 131-267.
Miserentino, Charles Orlando; Peebles, Ronald William; and Rockwell, Dean Milton, to Impact Container Corporation. Novel method of simultaneously sealing and inplating a rubbery pneumatic device. 3,483,053, 12-9-69, Cl. 156-97.
Miserlis, Constantine D., to Badger Company, Inc., The, mesne. Nitric acid concentration. 3,479,254, 11-18-69, Cl. 203-13.
Mishcon, Lester, to Singer Company, The. Cylinder and dial knitting machine. 3,456,460, 7-22-69, Cl. 66-20.
Mishcon, Lester, to Singer Company, The. Wing cam for pattern wheel knitting apparatus. 3,457,736, 7-29-69, Cl. 66-50.
Mishcon, Lester; and Reagan, Donald W., to Singer Company, The. Knitting machine drive apparatus. 3,440,837, 4-29-69, Cl. 66-28.
Mishima, Makio: *See—*
Kuribayashi, Sadatomo; Tayama, Eisei; Mishima, Makio; and Yuzawa, Syuichi,3,451,379.
Mishima Paper Manufacturing Co., Ltd.: *See—*
Mizutani, Yasuo; Sakamoto, Shoichi; and Ishibashi, Yasuaki, 3,431,166.
Mishima, Shizuo; Katayama, Shizuo; and Imamiya, Hitoshi. Process for the preparation of pressure-sensitive copying papers. 3,447,945, 6-3-69, Cl. 117-36.2
Mishkin, Abraham R.; Marsh, William C.; and Fobes, Alfred W., to Afico S.A. Extraction process. 3,451,823, 6-24-69, Cl. 99-77.
Mishkin, Sidney: *See—*
Bidwell, Robert E.; and Mishkin, Sidney,3,478,452.
Mishkin, Sidney; and Bidwell, Robert E. Tracheotomy bandage. 3,422,817, 1-21-69, Cl. 128-351.
Mishkin, Sidney; and Bidwell, Robert E. Needle holder suturing instrument. 3,452,755, 7-1-69, Cl. 128-340.
Mishkin, Sidney; and Bidwell, Robert E. Sternal stabilizer. 3,473,528, 10-21-69, Cl. 128-84.
Mishko, Bohdan: *See—*
Mahon, Joseph Peter; and Mishko, Bohdan,3,474,383.
Miskin, Merlin R.: *See—*
Miskin, Richard B.; and Miskin, Merlin R.,3,435,972.
Miskin, Richard B.; and Miskin, Merlin R.,3,467,265.
Miskin, Richard B.; and Miskin, Merlin R.,3,485,397.
Miskin, Richard B.; and Miskin, Merlin R. Bale handling system. 3,435,972, 4-1-69, Cl. 214-501.
Miskin, Richard B.; and Miskin, Merlin R. Bale handling system. 3,467,265, 9-16-69, Cl. 214-42.
Miskin, Richard B.; and Miskin, Merlin R. Method of stacking and loading bales. 3,485,397, 12-23-69, Cl. 214-152.
Mison, Richard M., to Ohmega Laboratories. Attenuator wherein shunt capacitive loading cancels series capacitive signal leak at higher frequencies. 3,449,697, 6-10-69, Cl. 333-81.

Misono, Akira; and Osa, Tetsuo, to Mitsubishi Chemical Industries Limited, and Akird Misono. Method for electrohydrogenation of benzene and substituted derivatives thereof. 3,485,726, 12-23-69, Cl. 204-59.
Mission Manufacturing Company: *See—*
Babcock, Willis, 3,452,778.
Stewart, Vernon G., 3,485,301.
Mississippi Glass Company: *See—*
Humphreys, Ellis, 3,420,650.
Mississippi Valley Structural Steel Company: *See—*
Dollinger, Francis A., 3,451,427.
Misson, George W.: *See—*
Starr, Eugene W.; and Misson, George W.,3,481,724.
Misson, George W., to PPG Industries, Inc. Apparatus for bending glass sheets on a gas support bed. 3,477,839, 11-11-69, Cl. 65-273.
Missouri Research Laboratories, Inc.: *See—*
Dickman, John J., 3,432,439.
Missouri Rolling Mill Corporation: *See—*
Ackerman, George H., 3,472,366.
Mistarz, Robert J., to Illinois Creamery Supply Co., and Chicago Stainless Equipment Corporation. Machine for automatically forming, filling, closing and sealing plastic coated gable top cartons of paperboard or the like. 3,486,423, 12-30-69, Cl. 93-53.
Misthos, George E,: *See—*
Warren, Creighton S.; and Misthos, George E,,3,475,670.
Misu, Hiroshi; and Yasuda, Yukio, to Fuji Shashin Film Kabushiki Kaisha. Color photographic silver halide emulsion. 3,468,665, 9-23-69, Cl. 96-100.
Mita, Yoh, to Nippon Electric Company Limited. Zinc sulphide phosphors activated by phosphorus and lead. 3,428,569, 2-18-69, Cl. 252-301.6
Mitacek, Bill, to Phillips Petroleum Company. Grease. 3,432,431, 3-11-69, Cl. 252-16.
Mitacek, Bill; and Skeen, Andrew E., to Phillips Petroleum Company. Nonpermanent protective coating composition and method. 3,468,688, 9-23-69, Cl. 106-285.
Mitaka Instrument Co., Ltd.: *See—*
Toyoda, Hiromichi; Tayama, Kazuo; Miyazaki, Yoshitoshi; Hinohara, Keiichi; and Suzuki, Hisao, 3,472,071.
Mitan, Frank J.; and Cohen, Lawrence R., to American Maize-Products Company. Reconstituted tobacco sheet having a starch phosphate binding agent. 3,438,379, 4-15-69, Cl. 131-17.
Mitan, Frank J.; and Jokay, Louis, to American Maize-Products Company. Process of coating food. 3,427,951, 2-18-69, Cl. 99-166.
Mitani, Tetsuo; and Kato, Masao, to Kobe Steel, Ltd., and Nippon Airbrake Co., Ltd., The. Torque control device for air wrenches. 3,434,547, 3-25-69, Cl. 173-12.
Mitchell, Agnes,: *See—*
Mitchell, Douglas W., 3,419,991.
Mitchell, Albert C., Jr., to Mobil Oil Corporation. Method and apparatus for alleviating scouring about legs of a marine structure. 3,453,830, 7-8-69, Cl. 61-46.5
Mitchell, Alexander George: *See—*
Mitchell, Norman John; and Mitchell, Alexander George,3,455,480.
Mitchell, Allison S., to Halliburton Company. Removal of corrosion products from metal surfaces. 3,436,261, 4-1-69, Cl. 134-3.
Mitchell, Arlan E.: *See—*
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I.,3,427,076.
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I.,3,427,077.
Mitchell, Arthur George, to English Electric Valve Company Limited. Method of making ignitrons. 3,484,512, 12-16-69, Cl. 264-61.
Mitchell, Bruce C., to United States of America, Navy, mesne. Extended range log amplifier. 3,483,475, 12-9-69, Cl. 328-145.
Mitchell, Calvin: *See—*
Burniski, Anthony J.; and Mitchell, Calvin,3,438,415.
Mitchell Camera Corporation: *See—*
Di Giulio, Edmund M.; Jurgens, John, Jr.; and Peterson, Niels G., 3,420,422.
Mitchell, Charles R. Disguised scale means for approximating the height of a hold-up man. 3,425,387, 2-4-69, Cl. 116-114.
Mitchell, Charles S., to Hewlett-Packard Company. Optical reader. 3,465,129, 9-2-69, Cl. 235-61.11
Mitchell, Charles T., Jr.; and Scheufele, William F., to Grace, W. R., & Co. Paper article coated with a slip coating of a partial ester of a fatty acid. 3,455,726, 7-15-69, Cl. 117-76.
Mitchell, Charles T., Jr.; and Scheufele, William F., to Grace, W. R., & Co. Paper article coated with a fatty amide slip coating. 3,458,346, 7-29-69, Cl. 117-76.
Mitchell, Christopher Richard: *See—*
Rogers, Ernest William; Dillon, Peter; and Mitchell, Christopher Richard,3,480,871.
Mitchell, Claybourne, Jr.: *See—*
Blythe, Richard; Marshall, Alvin E.; Mitchell, Claybourne, Jr.; Oser, George T.; and Scott, Gerald C.,3,448,267.
Mitchell, Clyde B.: *See—*
Hoover, Carl E.; and Finley, Otis E., 3,452,871.
Mitchell, Daniel M., to Collins Radio Company. Bi-phase demodulating circuit independent of reference signal amplitude distortion. 3,441,862, 4-29-69, Cl. 329-50.
Mitchell, Donald W.; Murphy, Edwin M.; Kawenski, Edward M.; Nagy, John; and Williams, Roger P., to United States of America, Interior. Process and method for quenching incipient gas-air explosions. 3,482,637, 12-9-69, Cl. 169-1.
Mitchell, Doren, to Bell Telephone Laboratories, Incorporated. Multiple channel loud-speaking telephone. 3,439,121, 4-15-69, Cl. 179-1.
Mitchell, Douglas S.,: *See—*
Mitchell, Douglas W., 3,419,991.
Mitchell, Douglas W., 25% to Sullivan, Donald J. 5% each to Mitchell, Agnes, Mitchell, Douglas S., Mitchell, Pamela A., 4% to Hewson, Donald E. Pneumatic device. 3,419,991, 1-7-69, Cl. 43-19.
Mitchell, Earl F., Jr. Chord playing attachment for stringed musical instruments. 3,446,108, 5-27-69, Cl. 84-317.
Mitchell, Earl F., Jr. Pendant toy for animals. 3,459,158, 8-5-69, Cl. 119-29.
Mitchell, Ebb V. Gauge for positioning drills relative to a grinding wheel. 3,482,325, 12-9-69, Cl. 33-185.
Mitchell, Edward S., Jr.: *See—*
Dow, Robert J.; Feldman, David; Lee, Samuel C.; Mitchell, Edward S., Jr.; and Wyndrum, Ralph W., Jr.,3,460,026.
Mitchell, Eugene P. Tent/canopy and housing therefor. 3,469,589, 9-30-69, Cl. 135-5.
Mitchell, Fern W., to Grace, W. R., & Co. Preserving fish with ammonia. 3,442,661, 5-6-69, Cl. 99-160.
Mitchell, George A., Company: *See—*
Halstead, Fred E.; and Mitchell, George A., 3,436,949.
Mitchell, George A. Film and pilot system. 3,428,395, 2-18-69, Cl. 352-194.
Mitchell, George A. View finder including a porro reflecting system. 3,476,011, 11-4-69, Cl. 88-1.5
Mitchell, George A.: *See—*
Halstead, Fred E.; and Mitchell, George A.,3,436,949.
Mitchell, Hugh A.; and Grandia, Willem A.M., to Magnaflux Corporation. Ultrasonic gauging method and apparatus. 3,474,664, 10-28-69, Cl. 73-67.9
Mitchell Industries, Inc.: *See—*
Younkin, James R., 3,465,218.
Younkin, James R., 3,470,430.
Mitchell, James A.; Wilbur, Donald E., Jr.; and Wurtzell, Frederick W., to Union Carbide Corporation. Method for forming molded ribbed panels. 3,449,482, 6-10-69, Cl. 264-108.
Mitchell, James C., Jr., to United States of America, Navy. Tunnel diode microwave oscillator. 3,462,709, 8-19-69, Cl. 331-96.
Mitchell, James G.; and Mitchell, Winalee G. Plastic footwear and methods for fabrication. 3,426,454, 2-11-69, Cl. 36-2.5
Mitchell, Jay P.: *See—*
McMaster, Robert C.; Mitchell, Jay P.; and Rhoten, Merle L.,3,466,388.
Mitchell, John D.: *See—*
Jordan, Bertram L.; Mitchell, John D.; Harrington, Joseph J.; Griffin, Charles B.; and Hall, William R.,3,482,614.
Mitchell, John E., Company: *See—*
Davis, Norman E., 3,425,192.
Mitchell, Orville; Rubenstein, Irving H.; Roden, Richard L.; and Johnson, Russell L., 3,470,706.
Roden, Richard L.; Smith, Dudley C.; and Kessler, Lowell, 3,484,807.
Mitchell, John G.: *See—*
Haddad, James H.; and Mitchell, John G.,3,483,115.
Mitchell, John Rothwell, to G. Q. Parachute Company Limited. Parachutes. 3,450,377, 6-17-69, Cl. 244-149.
Mitchell, John. Teaching aid and method. 3,452,449, 7-1-69, Cl. 35-9.
Mitchell, John; and Topham, Arthur, to Imperial Chemical Industries Limited. Pigment compositions. 3,446,641, 5-27-69, Cl. 106-288.
Mitchell, Joseph Maxwell: *See—*
Chalmers, David Calder; and Mitchell, Joseph Maxwell,3,438,924.
Mitchell, Len B.; and Stoffels, Robert E., to Leeds & Northrup Company, mesne. Plural code supervisory control and telemetering system. 3,465,290, 9-2-69, Cl. 340-163.
Mitchell, Mance R.: *See—*
Varnell, William R.; and Mitchell, Mance R.,3,443,347.
Varnell, William R.; and Mitchell, Mance R.,3,466,778.
Mitchell, Margaret S. Portable fabric steamer. 3,423,966, 1-28-69, Cl. 68-222.
Mitchell, Maurice M., Jr., to Melpar, Inc. Anthracite to acetylene conversion process. 3,460,925, 8-12-69, Cl. 48-216.
Mitchell, Maurice M., Jr., to Atlantic Richfield Company. Preparation of metal alkoxides. 3,479,381, 11-18-69, Cl. 260-448.
Mitchell, Muni M.: *See—*
Dawson, Robert H.; Ditrick, Norman H.; and Mitchell, Muni M.,3,455,020.

Mitchell, Norman John; and Mitchell, Alexander George. Stores container. 3,455,480, 7-15-69, Cl. 220-23.4
Mitchell, Norris W., to Phillips Petroleum Company. Fluid catalytic stripping. 3,424,672, 1-28-69, Cl. 208-164.
Mitchell, Norris W.; and Moon, John A., to Phillips Petroleum Company. Production of high purity ethylene. 3,485,886, 12-23-69, Cl. 260-677.
Mitchell, Orville; Rubenstein, Irving H.; Roden, Richard L.; and Johnson, Russell L., to Mitchell, John E., Company. Machine for making carbonated desserts. 3,470,706, 10-7-69, Cl. 62-179.
Mitchell, Pamela A.,: *See*—
Mitchell, Douglas W., 3,419,991.
Mitchell, Paul J., Jr., to S W Industries, Inc. Construction of roll for machinery. 3,445,906, 5-27-69, Cl. 29-127.
Mitchell, Paul J., Jr., to SW Industries, Inc. Paper manufacturing roll constructions and processes. 3,460,222, 8-12-69, Cl. 29-120.
Mitchell, Philip A.; Martino, Carlo F.; and Imhof, Lawrence G., to Union Carbide Corporation. Phenolic molding compositions. 3,438,931, 4-15-69, Cl. 260-38.
Mitchell, Reid L.; Murphy, Charles F.; and Gwynn, John C., to ITT Rayonier Incorporated. Cellulose alkoxyl ether product and the aqueous dispersions thereof. 3,424,744, 1-28-69, Cl. 260-231.
Mitchell, Robert G.; and Egert, Francis A., to Wool O Company, The. Apparatus for making a braid. 3,421,406, 1-14-69, Cl. 87-30.
Mitchell, Robert S.: *See*—
Carter, Richard P., Jr.; Irani, Riyad R.; and Mitchell, Robert S.,3,449,410.
Irani, Riyad R.; and Mitchell, Robert S.,3,427,129.
Irani, Riyad R.; and Mitchell, Robert S.,3,449,409.
Irani, Riyad R.; and Mitchell, Robert S.,3,470,112.
Irani, Riyad R.; and Mitchell, Robert S.,3,475,486.
Mitchell, Robert W., to Heath Company. Method and apparatus for computing color balance characteristics and preparing improved color prints. 3,443,868, 5-13-69, Cl. 355-32.
Mitchell, Roscoe A. Sound emitting fish lure. 3,449,852, 6-17-69, Cl. 43-42.06
Mitchell, Roy William; and Scarrott, Gordon George, to International Computer and Tabulators Limited. Graphic display systems for CRT responsive to selected parts of plural filtered step waveforms including precursor, linear and overshoot parts. 3,441,926, 4-29-69, Cl. 340-324.
Mitchell, Royce C.: *See*—
White, John B., 3,487,423.
Mitchell, Sidney, to R.F.D. Company Limited. Inflatable escape chutes. 3,461,995, 8-19-69, Cl. 193-25.
Mitchell, Thoral J. Resistance exerciser for wrists, arms, and upper body. 3,428,311, 2-18-69, Cl. 272-67.
Mitchell, Walter B., to National Semiconductor Corporation. Contacts for insulation isolated semiconductor integrated circuitry. 3,440,498, 4-22-69, Cl. 317-234.
Mitchell, Walter B.; and Taylor, Ronald C., to National Semiconductor Corporation. High-speed avalanche switching circuit. 3,421,025, 1-7-69, Cl. 307-283.
Mitchell, Wilbur A. E.: *See*—
Drake, James C., 3,435,818.
Mitchell, William A.; and Klose, Robert E., to General Foods Corporation. Dessert-on-the-stick. 3,471,301, 10-7-69, Cl. 99-139.
Mitchell, William A.; and Schwartzberg, Henry G., to General Foods Corporation. Process for producing a supersaturated solution of carbon dioxide. 3,467,526, 9-16-69, Cl. 99-79.
Mitchell, William A.; and Seidel, William C., to General Foods Corporation. Cold water soluble acid composition. 3,480,444, 11-25-69, Cl. 99-78.
Mitchell, William Colton, to Scovill Manufacturing Company. Radiator filler cap. 3,463,346, 8-26-69, Cl. 220-44.
Mitchell, Winalee G.: *See*—
Mitchell, James G.; and Mitchell, Winalee G.,3,426,454.
Mitchem, Luther C.: *See*—
Bach, Ricardo O.; Kamienski, Conrad W.; Dellinger, Matthew Henry; Mitchem, Luther C.; and Morrison, Robert C.,3,445,534.
Mitchener, William A.: *See*—
Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A.,3,462,949.
Anderson, Howard R.; Lambdin, Philip E.; and Mitchener, William A.,3,485,442.
Mite Corporation: *See*—
Cetran, Louis; and Donovan, Timothy F., 3,455,154.
Howard, Bernard; and Hirsch, Ralph M., 3,439,118.
Mitin, Dmitry Mikhailovich: *See*—
Tevis, Petr Isaakovich; Kostochkin, Vladimir Nikolaevich; Ananev, Vladimir Alexandrovich; Krjukov, Viktor Mikhailovich; and Mitin, Dmitry Mikhailovich,3,467,179.
Mito, Hideo: *See*—
Yamamoto, Shinichiro; and Mito, Hideo,3,472,999.
Mitoff, Stephan P., to General Electric Company. Electrical device comprising metal oxide- containing solid electrolyte and electrode. 3,436,269, 4-1-69, Cl. 136-86.
Mitoff, Stephan P., to General Electric Company. Process for the densification of zirconia. 3,481,780, 12-2-69, Cl. 117-215.
Mitra, Sanjit K., to Bell Telephone Laboratories, Incorporated. Nonreciprocal wave translating device. 3,452,304, 6-24-69, Cl. 333-80.
Mitronics Inc.: *See*—
Hillman, Gary; and Douches, Joseph Luke, 3,486,441.
Mitrovi, Milan: *See*—
Bauernfeind, Jacob; and Mitrovi, Milan,3,458,631.
Mitrovic, Milan: *See*—
Hoffer, Max; and Mitrovic, Milan,3,461,206.
Lehr, Hanns H.; and Mitrovic, Milan,3,454,577.
Mitsch, Ronald A., to Minnesota Mining and Manufacturing Company. Phosphorus difluoride derivatives and production thereof. 3,475,520, 10-28-69, Cl. 260-940.
Mitsche, Roy T., to Universal Oil Products Company. Process for alkylation of aromatics using a halogen- containing alumino-silicate-alumina catalyst. 3,436,432, 4-1-69, Cl. 260-671.
Mitsche, Roy T., to Universal Oil Products Company. Control of acid activity of a hydrocarbon conversion catalyst comprising a halogen component combined with a support containing alumina and crystalline aluminosilicate particles. 3,463,744, 8-26-69, Cl. 252-442.
Mitsche, Roy T., to Universal Oil Products Company. Hydrocarbon conversion catalyst comprising a halogen component combined with a support containing alumina and finely divided crystalline aluminosilicate particles. 3,464,929, 9-2-69, Cl. 252-442.
Mitscher, Lester Allen: *See*—
Martin, John Henry; Porter, John Norman; and Mitscher, Lester Allen,3,452,136.
Mitscher, Lester Allen; and Martin, John Henry Edward James, to American Cyanamid Company. Isolation of 5-hydroxy-7-chlortetracycline. 3,446,841, 5-27-69, Cl. 260-559.
Mitsubishi Atomic Power Industries, Inc.: *See*—
Maekawa, Tatsuo; Nakajima, Nobuo; and Kagawa, Masaru, 3,473,973.
Mitsubishi Chemical Industries Limited: *See*—
Honma, Umeo, 3,485,289.
Kakihana, Hidetake; and Gondo, Takuya, 3,485,737.
Misono, Akira; and Osa, Tetsuo, 3,485,726.
Naito, Takeo; Okano, Atsuji; and Miki, Tosaku, 3,449,411.
Senshu, Hisashi, 3,444,172.
Suzuki, Saburo; Kurata, Masaya; Akiyoshi, Akikazu; Aoshima, Shozo; Dan, Hirohiko; and Matsuoka, Norimichi, 3,484,472.
Yamawaki, Takeshi; and Usami, Masakatsu, 3,484,425.
Yamaya, Wataru; and Fujino, Sadao, 3,454,552.
Mitsubishi Chemical Industries Limited of Japan: *See*—
Okano, Atsuji; Moroi, Reimei; and Naito, Takeo, 3,448,144.
Mitsubishi Denki Kabushiki Kaisha: *See*—
Iida, Takahiko; Nobata, Akio; Harasaki, Minoru; and Kumazawa, Hirashi, 3,431,400.
Kobayashi, Shinzo; Onishi, Kumaichi; Kawakami, Akira; and Nakamura, Nobuhiro, 3,482,049.
Kohya, Tetsuya; and Komagata, Eiiti, 3,478,536.
Kohya, Tetsuya; and Tsuji, Mikio, 3,478,818.
Maeda, Sachio; and Saito, Nagao, 3,461,056.
Murata, Toshiya; Takahashi, Toshiyuki; and Kobayashi, Yoshiharu, 3,469,665.
Nakajima, Yozo, 3,437,479.
Okamoto, Haruki, 3,474,444.
Tada, Yasuo, 3,478,729.
Tajima, Takashi, 3,463,290.
Ukawa, Akira, 3,433,323.
Yokoyama, Masahiro, 3,447,005.
Yoshiyama, Yuji; and Ezawa, Takayoshi, 3,473,378.
Mitsubishi Jukogyo Kabushiki Kaisha: *See*—
Araikawa, Noboru, 3,481,437.
Araki, Yoshiro, 3,440,038.
Atsukawa, Masumi; Nishimoto, Yoshihiko; and Matsumoto, Kazuhiro, 3,485,014.
Fukui, Saburo; and Yamamoto, Masato, 3,429,792.
Kameda, Isamu; and Uto, Yoshimitsu, 3,476,909.
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi, 3,426,904.
Katsuta, Kihei; Shimasaki, Yoshikatsu; and Miki, Ikuo, 3,452,870.
Matsuoka, Shuro, 3,451,903.
Noguchi, Sadao, 3,480,049.
Oda, Teishiro; and Nakamura, Makoto, 3,486,886.
Oka, Tanehiko; Miki, Ikuo; and Kawahara, Takao, 3,421,639.
Sagara, Hideo; Iwasaki, Yasuhiro; Ohe, Tsutomu; and Mashimo, Tomoyuki, 3,431,630.
Sagara, Hideo, 3,462,204.
Suzuki, Hiroshi; Hujimori, Tosio; and Ida, Saburo, 3,474,611.
Suzuki, Kazuhisa, 3,470,037.
Suzuki, Kazuhisa, 3,473,002.
Tamura, Hajime, 3,469,305.
Ueda, Kenji; Horiguchi, Tsutomu; and Hirata, Minoru, 3,458,413.
Ueda, Kenji; and Ogawa, Hiroshi, 3,477,931.
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu, 3,431,949.

327-709 O-LT - 71 - pt. 1 - 68

Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu, 3,457,960.
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu, 3,461,917.
Yamada, Kazuyoshi; and Doi, Juro, 3,421,469.
Yamada, Kazuyoshi; Wakazaki, Hiroshi; and Doi Juro, 3,433,197.
Yamada, Kazuyoshi; and Doi, Juro, 3,433,198.
Yamate, Shiro; and Araikawa, Noboru, 3,468,178.
Yoshida, Muneo; Inoue, Masaru; Fukunaga, Tsuyoshi; Oguchi, Heikichi; and Shioya, Koichi, 3,437,997.

Mitsubishi Kasei Kogyo Kabushiki Kaisha: *See*—
Kato, Haruhiro, 3,475,154.

Mitsubishi Paper Mills, Ltd.: *See*—
Futaki, Kiyoshi, 3,473,945.
Ohyama, Yasushi; and Miyazawa, Sadayuki, 3,436,219.

Mitsubishi Petrochemical Co., Ltd.: *See*—
Anno, Takamitsu; Masuda, Kohei; Hachiya, Kikuo; and Hattori, Takeo, 3,451,884.
Asano, Taisuke; Nakano, Mamoru; Sato, Yasuhiro; Shimodaira, Takashi; and Kamata, Keiko, 3,470,238.
Furukawa, Junji; Morikawa, Hiroyuki; and Yamamoto, Ryuzo, 3,476,820.
Iwakura, Yoshio; and Akiyama, Masayasu, 3,484,389.
Komuro, Isao; and Nagai, Kenichi, 3,456,002.
Yamanaka, Toshio; Yuki, Shiro; and Shibatani, Haruo, 3,474,154.

Mitsubishi Rayon Co., Ltd.: *See*—
Asami, Ko; and Hariu, Hiroshi, 3,465,076.
Kosaka, Kenzo; and Kujime, Toshihiko, 3,438,193.
Kosaka, Kenzo; Tsunewaki, Masami; Yonekura, Nobuaki; Okaya, Tsutomu; Mimatsu, Ken; and Mori, Tatsujiro, 3,446,005.
Kosaka, Kenzo; and Hamamura, Tadashi, 3,473,317.
Nakatsuka, Kazuo; Ide, Fumio; and Takamura, Masayoshi, 3,448,070.
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira, 3,458,987.
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru, 3,437,620.

Mitsubishi Seiko Kabushiki Kaisha: *See*—
Kume, Tadashi, 3,482,054.

Mitsuboshi Belt Kabushiki Kaisha: *See*—
Kanamori, Hisao, 3,481,807.

Mitsudo, Fumiaki: *See*—
Matsumoto, Yutaro; Hisatsune, Tadashi; Sasaki, Tsutomu; Mitsudo, Fumiaki; and Yamauchi, Yasuhiro,3,467,723.

Mitsuhashi, Kiyohiko: *See*—
Okamoto, Michio; and Mitsuhashi, Kiyohiko,3,482,027.

Mitsuhashi, Sadayuki: *See*—
Takamura, Masao; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisahide; and Mitsuhashi, Sadayuki,3,487,344.

Mitsuhasi, Sadayuki: *See*—
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki,3,464,039.

Mitsui Chemical Industry Co., Ltd.: *See*—
Kanbara, Shu; Takahashi, Akio; Nakano, Masayuki; and Hirose, Toshio, 3,431,248.
Murai, Korenori; Fukuda, Kiyo; Saotome, Kenji; and Sato, Shigetake, 3,454,504.
Yamamoto, Kazumi; Iwasa, Mitsuhiro; Ema, Kenji; and Arai, Noboru, 3,422,037.

Mitsui Construction Company Limited: *See*—
Nikai, Sei; Kojima, Yu; Mukai, Tsuneo; and Hirata, Shigeru, 3,485,384.

Mitsui, Hachiro. Method of manufacturing cloth-covered belt buckles and tool assembly used therein. 3,430,315, 3-4-69, Cl. 29-3.

Mitsui Kagaku Kogyo Kabushiki Kaisha: *See*—
Kato, Kichiro; Fujita, Hiroshi; Toyama, Teruhiko; Kiyohisa, Yukio; Yoshimoto, Takeo; and Yanami, Tetsuo, 3,454,392.
Okubo, Ichiro; and Tsujimoto, Michihiro, 3,475,341.
Yamamoto, Kazumi; Iwasa, Mitsuhiro; Ema, Kenji; and Arai, Noboru, 3,422,037.

Mitsui Mihonbashi Muromachi: *See*—
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo, 3,436,323.

Mitsui, Naoshi: *See*—
Ito, Teruhiko; Mitsui, Naoshi; Maeda, Seiichiro; and Sawata, Kiyoshi,3,444,102.

Mitsui Petrochemical Industries, Ltd.: *See*—
Sasaki, Juntaro; Senoue, Toshio; and Tokuzumi, Tadaichi, 3,445,443.
Sasaki, Juntaro; Tokuzumi, Tadaichi; and Senoue, Toshio, 3,450,682.
Tanaka, Tsutomu; Tokuzumi, Tadaichi; and Fujimura, Hiroshi, 3,449,309.

Mitsui Shipbuilding & Engineering Co., Inc.: *See*—
Oshima, Masanao, 3,452,699.

Mitsui Shipbuilding & Engineering Co., Ltd.: *See*—
Oshima, Masanao, 3,463,110.
Oshima, Masanao, 3,467,044.
Takeuchi, Shinro, 3,463,617.

Mitsui, Takashi: *See*—
Yanagita, Masaya; Kitahara, Masao; and Mitsui, Takashi,3,439,028.
Yanagita, Masaya; Mitsui, Takashi; and Kitahara, Masao,3,437,711.

Mitsui, Toshio, to Nippon Electric Company Limited. Control system using continuous tone and pulsed code signals. 3,443,032, 5-6-69, Cl. 179-2.

Mitsuishi, Iwao; and Akita, Tadayoshi. Visual acuity testing equipment. 3,477,779, 11-11-69, Cl. 351-32.

Mitsuishi, Shoji: *See*—
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki,3,464,039.

Mitsuo Iwauchi Tokyo: *See*—
Batchelor, Gordon S.; Kishi, Kiyoshi; Iwauchi, Shigeki; and Saito, Isamu, 3,443,929.

Mittag, Hermann; Ehrmann, Wilhelm; and Fuessle, Klaus, to Bosch, Robert, G.m.b.H. Switching generator voltage regulator having arc and spike suppression means. 3,484,675, 12-16-69, Cl. 322-28.

Mittag, Walter, to Voit, J. M., G.m.b.H. Mechanism for tensioning endless belt-like members. 3,466,940, 9-16-69, Cl. 74-242.14

Mittelberger, Karl Heinz: *See*—
Kaupp, Josef; Klug, Helmut; Mittelberger, Karl Heinz; and Koln, Hans Georg,3,467,640.

Mitteldorf, Arthur J.: *See*—
Marcovecchio, Joseph; and Mitteldorf, Arthur J.,3,442,593.

Mittelhauser & Walter: *See*—
Pakula, Erwin E., 3,485,769.

Mittelman, Phillip S., to United Nuclear Corporation. Simulation of nuclear weapons radiation. 3,423,844, 1-28-69, Cl. 35-1.

Mittelstadt, Gerald D.: *See*—
Lefler, Clarence Arthur; and Mittelstadt, Gerald D.,3,479,020.

Mittelstaedt, Georg S. Fans and compressors. 3,484,039, 12-16-69, Cl. 230-122.

Mitten, Leonard A., to Runnion, Ernest E. Cutter head structure. 3,447,578, 6-3-69, Cl. 144-218.

Mitten, Leonard A., to Runnion, Ernest E. Profiling of small-diameter logs to produce four-sided cants. 3,454,063, 7-8-69, Cl. 144-326.

Mitten, Leonard A., to Runnion, Ernest E. Production of stud lumber from logs of small diameter. 3,457,974, 7-29-69, Cl. 144-3.

Mitten, Leonard A.; and Chapman, Robert E., to Runnion, Ernest E. Guiding a log through the cutter heads and saws of a profile mill. 3,442,310, 5-6-69, Cl. 144-312.

Mittenzwei, Hellmut: *See*—
Jaeger, Karl-Heinz; and Mittenzwei, Hellmut,3,466,367.

Mitter, Laurence J.: *See*—
Happel, Hermann E.; and Mitter, Laurence J.,3,444,805.

Mittermaier, Armin F.: *See*—
Derbyshire, Charles E.; Mees, Robert D.; and Mittermaier, Armin F.,3,467,929.

Mittermaier, Armin F.; and Mees, Robert D., to General Electric Company. Low pressure casting apparatus. 3,450,190, 6-17-69, Cl. 164-309.

Mittermeier, Walter: *See*—
Ruoff, Karl; and Mittermeier, Walter,3,455,178.

Mittermueller, Josef, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Process and apparatus for the longitudinal seam welding of metal bands. 3,430,030, 2-25-69, Cl. 219-124.

Mittig, Milan; and Svoboda, Jiri, to Zavody umelecke kororyroby narodni podnik. Automatic universal door closer. 3,474,485, 10-28-69, Cl. 16-55.

Mittler, Martin A.: *See*—
Blickstein, Martin J.; and Mittler, Martin A.,3,476,994.
Blickstein, Martin J.; and Mittler, Martin A.,3,483,450.

Mittman, Emanuel, to Grace, W. R., & Co. Apparatus and process for producing an embossed plastic laminate. 3,483,057, 12-9-69, Cl. 156-209.

Mittmann, Wolfgang M.; and Breidenbach, Gert, to Intertip A.G. Selective blocking means for key machine. 3,481,444, 12-2-69, Cl. 197-107.

Mitton, Robert E. Pressure equalizer apparatus for hydraulic brake fluid systems. 3,430,660, 3-4-69, Cl. 138-30.

Mitty, Jerald: *See*—
Mitty, Sol; Mitty, Neil; and Mitty, Jerald,3,462,171.

Mitty, Neil: *See*—
Mitty, Sol; Mitty, Neil; and Mitty, Jerald,3,462,171.

Mitty, Sol; Mitty, Neil; and Mitty, Jerald. Retractable wheel brackets for corrugated shipping cartons and shopping carts. 3,462,171, 8-19-69, Cl. 280-47.26

Mitzelfelt, Richard C.; Leiter, Leigh D.; and Junod, John E., to International Paper Company. Container fabricating apparatus. 3,422,730, 1-21-69, Cl. 93-36.

Mitzmager, Abraham; and Gorin, Chanuch, to Chemicals & Phosphates Ltd. Flotation of siliceous ores. 3,480,143, 11-25-69, Cl. 209-166.

Miura, Akira: *See—*
Nagata, Kuniichi; and Miura, Akira,3,465,106.
Miura, Masamichi: *See—*
Doi, Mineo; Miura, Masamichi; Sakuraba, Ryozo; and Ando, Takeo,3,429,692.
Miura, Takeo: *See—*
Abe, Ryoichi; and Miura, Takeo,3,423,687.
Miura, Takeo; and Hirano, Chikafusa, to Kabushiki Kaisha Hitachi Seisakusho. Synchronous and asynchronous control for hybrid computer. 3,437,800, 4-8-69, Cl. 235-150.5
Miville, Charles A.; and Hugel, Fred, to Sanders Associates, Inc. Incremental magnetic tape recorder employing single spring drive mechanism. 3,451,635, 6-24-69, Cl. 242-55.13
Miwa, Ichiro; and Ikeda, Takahide, to Hitachi, Ltd. Emitter-follower circuit stabilized to prevent oscillations. 3,471,793, 10-7-69, Cl. 330-18.
Miwa, Ichiro; and Ohmura, Yoshito, to Kabushiki Kaisha Hitachi Seisakusho. Integrated-cascade amplifier with improved frequency characteristic. 3,449,682, 6-10-69, Cl. 330-20.
Mix, Arthur L., Jr.: *See—*
Lahr, Roy J.; Mix, Arthur L., Jr.; and Terwilliger, Herbert W.,3,485,245.
Mix, Konrad; and Heid, Christian, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process for dyeing and printing polyester materials. 3,473,883, 10-21-69, Cl. 8-55.
Mix-Mill, Inc.: *See—*
Barnes, Clyde R., 3,423,546.
Barnes, Clyde R., 3,451,531.
Skelton, Robert F., 3,426,595.
Skelton, Robert F., 3,430,011.
Mixich, Georg: *See—*
Molnar, Istvan; Wagner-Jauregg, Theodor; Jahn, Ulrich; and Mixich, Georg,3,482,024.
Mixing Equipment Co., Inc.: *See—*
Oldshue, James Y.; and Hirschland, Henry E., 3,439,904.
Mixon, James Lenhart, Jr., to AMP, Incorporated. Tool for securing a cable to an electrical connector. 3,434,511, 3-25-69, Cl. 140-117.
Mixon, James Lenhart, Jr.; and Wahl, Frederick William, to AMP Incorporated. Tool and equipment to connect a line onto a high voltage line. 3,458,996, 8-5-69, Cl. 60-26.1
Mixon, William McLean. Post-driving device. 3,482,639, 12-9-69, Cl. 173-27.
Mixsell, Stephen A.; and Mead, Hansel B., to Teltronic Measurement Systems, Inc. Audience survey system. 3,456,192, 7-15-69, Cl. 325-31.
Miyagi, Masahisa, to Nippon Electric Company Limited. Time division frequency shift transmission system. 3,444,320, 5-13-69, Cl. 178-50.
Miyagi, Masahisa, to Nippon Electric Company, Limited. Variable-emphasis communications system of the frequency or phase-modulation type. 3,444,469, 5-13-69, Cl. 325-46.
Miyagi, Masahisa, to Nippon Electric Company, Limited. Power level control system for intermittent multifrequency waves. 3,456,202, 7-15-69, Cl. 328-168.
Miyagi, Masahisa, to Nippon Electric Company Limited. Power control system for common amplification of multifrequency carriers. 3,487,169, 12-30-69, Cl. 179-15.
Miyagi, Masahisa: *See—*
Morita, Masasuke; and Miyagi, Masahisa,3,480,733.
Miyagi, Tamotsu: *See—*
Matsui, Isamu; Miyagi, Tamotsu; and Funahashi, Muneaki,3,480,215.
Miyagi, Toru: *See—*
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo,3,428,555.
Miyaji, Masayuki: *See—*
Nomura, Tatsuo; Shimomura, Kunio; and Miyaji, Masayuki,3,481,836.
Miyajima, Nobuo, to Continental Carbon Company. Apparatus for sampling carbon black. 3,457,788, 7-29-69, Cl. 73-422.
Miyakawa, Seinan, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic exposure control system. 3,470,798, 10-7-69, Cl. 95-10.
Miyake, Akihisa: *See—*
Hata, Go; and Miyake, Akihisa,3,475,509.
Miyake, Makoto: *See—*
Umeno, Masashi; Miyake, Makoto; and Tosaki, Chikao,3,479,858.
Miyake, Shunji; and Hirano, Katsuaki, to Kurashiki Rayon Co., Ltd. Method of manufacturing improved polyvinyl alcohol films. 3,440,316, 4-22-69, Cl. 264-288.
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi, to Toyo Koatsu Industries, Incorporated. Process for producing polyoxymethylenes. 3,457,226, 7-22-69, Cl. 260-67.
Miyake, Yasuhiko; Adachi, Saburo; Yamauchi, Norifumi; Hayashi, Toshio; and Akimoto, Masamichi, to Toyo Koatsu Industries, Incorporated. Process for producing tetraoxymethylene. 3,426,041, 2-4-69, Cl. 260-340.
Miyamae, Masao: *See—*
Lanaka, Tomoharu; Miyamae, Masao; Takayama, Shinichi; Iio, Katsumi; Komatsubara, Tomomitsu; and Soma, Takeshi,3,424,729.
Miyamae, Toshiaki. Motorized fishing reel. 3,459,387, 8-5-69, Cl. 242-84.21
Miyamae, Toshiaki. Fishing reel. 3,481,555, 12-2-69, Cl. 242-84.54
Miyamoto, Ken; and Takahashi, Yoshiya, to Tokyo Tanabe Co., Ltd. Process for producing riboflavin derivatives. 3,458,497, 7-29-69, Cl. 260-211.3
Miyamura, Mitsutake, to Marifarms, Incorporated, mesne. Method for the artificial culture of shrimp. 3,473,509, 10-21-69, Cl. 119-2.
Miyamura, Yoshinobu: *See—*
Kawamori, Yoshiaki; Matsuura, Masahiko; Saito, Takeshi; and Miyamura, Yoshinobu,3,458,401.
Miyano, Seiji; and Kase, Yoshitoshi, said Miyano assor to Takeda Chemical Industries, Ltd. Picoline derivatives. 3,471,501, 10-7-69, Cl. 260-293.
Miyaoka, Senri, to Sony Corporation. Color picture tube. 3,452,242, 6-24-69, Cl. 315-21.
Miyaoka, Senri: *See—*
Ohgoshi, Akio; Shimada, Satoshi; and Miyaoka, Senri,3,467,881.
Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu,3,448,316.
Miyasaka, Mamoru, to Kabushiki Kaisha Suwa Seikosha. Date and day correcting device of a calendar time- piece. 3,470,688, 10-7-69, Cl. 58-58.
Miyasaka, Takao: *See—*
Kaneko, Kansaku; Fujiwara, Toshimasa; Samuta, Osamu; Miyasaka, Takao; and Kitamura, Kenichi,3,458,740.
Miyashiro, Masao: *See—*
Fukuzuka, Toshio; and Miyashiro, Masao,3,486,990.
Miyashiro, Shoichi, to Tokyo Shibaura Electric Co., Ltd. Electron tube for both transmission and reception of visual information. 3,447,023, 5-27-69, Cl. 315-12.
Miyashiro, Shoichi, to Tokyo Shibaura Electric Co., Ltd. Image transmitting system utilizing one tube for display and transmission of images. 3,463,879, 8-26-69, Cl. 178-6.8
Miyashiro, Shoichi; and Shirouzu, Shunji, to Tokyo Shibaura Electric Co., Ltd. Storage device. 3,453,484, 7-1-69, Cl. 315-10.
Miyashiro, Shoichi; and Shirouzu, Shunji, to Tokyo Shibaura Electric Co., Ltd. Colour kinescopes. 3,484,862, 12-16-69, Cl. 315-12.
Miyashiro, Shoichi; and Shirouzu, Shunzi, to Tokyo Shibaura Electric Co., Ltd. Television image pickup tube device. 3,437,867, 4-8-69, Cl. 315-10.
Miyashita, Koji: *See—*
Fujita, Yoshimasa; Nakagawa, Kazumi; Shimoda, Keitaro; and Miyashita, Koji,3,434,276.
Shimoda, Keitaro; and Miyashita, Koji,3,426,117.
Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, to Nippon Kokan Kabushiki Kaisha. Method of electroplating aluminum. 3,470,073, 9-30-69, Cl. 204-39.
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakuni, Masahiko, to Nippon Kokan Kabushiki Kaisha. Process for the electrolytic formation of aluminum coatings on metallic surfaces in molten salt bath. 3,480,521, 11-25-69, Cl. 204-39.
Miyata, Etsutaro, to Hayakawa Denki Kogyo Kabushiki Kaisha. High frequency heating device. 3,422,242, 1-14-69, Cl. 219-10.55
Miyata, Jiro, to Fujitsu Limited. Waveform generator for generating a family of sinusoidal curves. 3,462,618, 8-19-69, Cl. 307-229.
Miyata, Koichi: *See—*
Nakajima, Nobuo; Miyata, Koichi; Wada, Shyozo; and Shimazono, Hirao,3,443,969.
Miyata, Michio, to Fuji Shashin Film Kabushiki Kaisha. Process for producing silver iodo-bromide photographic emulsion. 3,482,982, 12-9-69, Cl. 96-94.
Miyata, Saburo. Magnetic assembly for filtering. 3,462,720, 8-19-69, Cl. 335-305.
Miyata, Tadashi: *See—*
Sato, Masaki; and Miyata, Tadashi,3,461,181.
Miyauchi, Hideo, to Kabushiki Kaisha Yashica. Camera viewing and light measuring system. 3,451,324, 6-24-69, Cl. 95-42.
Miyawaki, Hiroshi; and Taniguchi, Kanazu, to Toko Kabushiki Kaisha. Composite winding for transformers. 3,458,650, 7-29-69, Cl. 174-117.
Miyayama, Shigeru: *See—*
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,454,017.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,469,365.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkihi; and Osako, Kyoichi,3,476,125.
Miyazaki, Seizaburo: *See—*
Iwashita, Katsumi; Yoshimura, Masasuke; Miyazaki, Seizaburo; and Tamaki, Kunio,3,481,495.
Miyazaki, Yasunobu: *See—*
Komai, Yoshiaki; Yoshino, Zenichi; Miyazaki, Yasunobu; Uematsu, Shigeru; and Mifune, Keiji,3,446,664.

Miyazaki, Yoshihisa; Kubo, Moritada; Takahashi, Yukiharu; and Uetani, Tatsuya, to Tokyo Shibaura Electric Co., Ltd. Servocontrol system. 3,436,627, 4-1-69, Cl. 318-18.
Miyazaki, Yoshitoshi: *See*—
Toyoda, Hiromichi; Tayama, Kazuo; Miyazaki, Yoshitoshi; Hinohara, Keiichi; and Suzuki, Hisao,3,472,071.
Miyazawa, Homare; Tarui, Shoichi; and Kamada, Masaki, to Gunze Limited, and Tadeda Chemical Industries, Ltd. Method for germfree rearing of silkworms by using plastic isolator. 3,465,720, 9-9-69, Cl. 119-6.
Miyazawa, Homare; Tarui, Shoichi; Kamada, Masaki; and Masuda, Hiroshi, to Gunze Limited, and Takeda Chemical Industries, Ltd. Method for rearing silkworms. 3,465,721, 9-9-69, Cl. 119-6.
Miyazawa, Sadayuki: *See*—
Ohyama, Yasushi; and Miyazawa, Sadayuki,3,436,219.
Miyoshi, Minoru: *See*—
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru,3,433,156.
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru,3,442,213.
Miyoshi, Mitsuji; Imai, Hirosuke; Otsuki, Yutaka; and Hara, Hajime, to Nippon Oil Company, Limited. Production of isobutylene-diene copolymers using zirconium halide-containing catalysts. 3,483,176, 12-9-69, Cl. 260-85.3
Mize, Charles A.: *See*—
Groover, Edwin F.; Reid, Guy T.; Wood, John H.; Pharr, Roger H.; and Mize, Charles A.,3,474,490.
Mize, Jack P.; and Colman, Derek, to Texas Instruments, Incorporated. Inversion layer field effect device with azimuthally dependent carrier mobility. 3,476,991, 11-4-69, Cl. 317-235.
Mizell, Leonard. Marine transfer device. 3,426,719, 2-11-69, Cl. 114-230.
Mizell, Leonard. Drawworks. 3,467,360, 9-16-69, Cl. 254-175.7
Mizell, Louis R., to I.W.S. Nominee Company Limited. Production of felted structures. 3,483,602, 12-16-69, Cl. 28-72.3
Mizelle, Ned W., to General Steel Products, Inc. Reclining rocking chair fixture. 3,464,736, 9-2-69, Cl. 297-84.
Mizen, Neil J., to Cornell Aeronautical Laboratory, Inc. Powered exoskeletal apparatus for amplifying human strength in response to normal body movements. 3,449,769, 6-17-69, Cl. 3-1.2
Mizma, Edward J.: *See*—
Hunter, Walker F.; and Mizma, Edward J.,3,479,989.
Mizsak, Stephen A.: *See*—
Perelman, Melvin; Jones, Reuben G.; and Mizsak, Stephen A.,3,446,813.
Mizuba, Seth S.: *See*—
Kraychy, Stephen; Garland, Robert B.; Mizuba, Seth S.; and Scott, William M.,3,481,974.
Mizuhara, Albert: *See*—
Boilard, Dennis I.; and Mizuhara, Albert,3,448,313.
Mizuki, Eiichi: *See*—
Kondo, Hideo; Tsuji, Nobuo; Nishio, Fumihiko; and Mizuki, Eiichi,3,449,123.
Mizuki, Yoshiaki, to Empisal (Proprietary) Limited. Needle bed of hand knitting machine. 3,434,307, 3-25-69, Cl. 66-115.
Mizuno, Akira. Throttle operated brake holder. 3,433,336, 3-18-69, Cl. 192-3.
Mizuno, Akira, to Goshi Kaisha Mizuno Kogeisha. Motor control and brake holder. 3,434,575, 3-25-69, Cl. 192-3.
Mizuno, Edward: *See*—
Hirshfield, Edward; Mizuno, Edward; and Trouard, Robert L.,3,431,506.
Mizuno, Hideo: *See*—
Kobayashi, Yoshichika; Masuda, Mutsuo; Mizuno, Hideo; and Murayama, Setsuko,3,457,184.
Kobayashi, Yoshichika; Masuda, Mutsuo; Murayama, Setuko; and Mizuno, Hideo,3,458,451.
Mizuno, Hideo, to Matsushita Electronics Corporation. Method of making terbium activated alkaline earth silicate phosphors. 3,468,810, 9-23-69, Cl. 252-301.4
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi, to Matsushita Electronics Corporation. Discharge tube. 3,427,491, 2-11-69, Cl. 313-346.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi, to Matsushita Electronics Corporation. Discharge tube satisfactorily low in radio- interfering noise. 3,427,492, 2-11-69, Cl. 313-346.
Mizuno, Mikio: *See*—
Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao,3,477,999.
Mizuno, Syoji: *See*—
Tada, Yoshinosuke; Mizuno, Syoji; Kashima, Syunsaku; Yasui, Seiichi; and Sugiura, Taku,3,420,453.
Mizuno, William G.: *See*—
Rue, Larry M.; Brunelle, Thomas E.; and Mizuno, William G.,3,444,242.
Mizuno, Yukio; and Tanaka, Shigenori, to Nissan Jidosha Kabushiki Kaisha. Multe-weft fluid jet loom. 3,482,606, 12-9-69, Cl. 139-127.
Mizuno, Yutaka; Nishihara, Tadashi; Shioyama, Yutaka; Tsutsui, Tsutomu; and Murakami, Keiichi, to Nitto Kasei Co., Ltd. Preparation of dialkyltin oxides. 3,466,311, 9-9-69, Cl. 260-429.7
Mizuno, Yutaka: *See*—
Katsumura, Tatsuo; Kataoka, Hirohisa; Mizuno, Yutaka; Tsutsui, Tsutomu; and Nishihara, Tadashi,3,423,482.
Mizuo, Masahiko: *See*—
Matsuzaki, Hiroyuki; Shimizu, Shokichi; and Mizuo, Masahiko,3,445,210.
Mizusawa Kagaku Kogyo Kabushiki Kaisha: *See*—
Sugahara, Yujiro; Yamada, Taketoshi; Noshi, Yoshibumi; and Matsuo, Shyoji, 3,461,081.
Sugahara, Yujiro; Usui, Koichi; Naito, Hiroyuki; and Sakamoto, Masao, 3,471,252.
Mizusawa, Kenichi: *See*—
Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi,3,484,866.
Mizushima, Yoshihiko; and Okamoto, Yoshiharu, to Nippon Telegraph and Telephone Public Corporation. Electric circuit employing semiconductor devices. 3,469,117, 9-23-69, Cl. 307-302.
Mizuta, Yoshiyuki. Metal-to-semiconductor area contact rectifying elements. 3,474,088, 10-21-69, Cl. 317-234.
Mizuta, Yukio: *See*—
Yamamoto, Mititaka; Mizuta, Yukio; Tanaka, Toshio; and Asada, Takeo,3,443,675.
Mizutani, Shigeru: *See*—
Ono, Terumichi; Mizutani, Shigeru; and Arai, Hazime,3,439,084.
Mizutani, Toshio: *See*—
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,428,651.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,440,245.
Mizutani, Yasukazu: *See*—
Ubukata, Susumu; Mizutani, Yasukazu; and Iyoda, Shozo,3,487,358.
Mizutani, Yasuo; Sakamoto, Shoichi; and Ishibashi, Yasuaki, to Mishima Paper Manufacturing Co., Ltd. Method of making paper which dissolves in water containing papermaking fibers and fibrous cellulose-glycolic acid. 3,431,166, 3-4-69, Cl. 162-135.
Mizutani, Yukio, to Tokuyama Soda Kabushiki Kaisha. Difficultly dyeable polymers containing copolymers of ethylenically unsaturated monomers containing glycidyl groups. 3,423,481, 1-21-69, Cl. 260-836.
Mizutani, Yukio; and Ihara, Hirofumi, to Tokuyama Soda Kabushiki Kaisha. Process for preparing alcohols by hydration of olefins. 3,450,777, 6-17-69, Cl. 260-641.
Mizutani, Yukio; Tesima, Wataru; Akiyama, Sumio; Yamane, Reiichi; and Ihara, Hirohumi. Process for the preparation of membrane-shaped high molecular articles. 3,451,951, 6-24-69, Cl. 260-2.2
Mizzi, John V.: *See*—
Anderson, David W.; Mizzi, John V.; and Sparacio, Francis J.,3,449,723.
Boland, Lawrence J.; Mizzi, John V.; and Smith, John W.,3,449,724.
Mizzi, John V., to International Business Machines Corporation. Data storage system. 3,441,908, 4-29-69, Cl. 340-172.5
Mizzoni, Renat Herbert: *See*—
Mull, Robert Paul; and Mizzoni, Renat Herbert,3,423,406.
Mizzoni, Renat Herbert, to Ciba Corporation. Dithioacid esters. 3,449,360, 6-10-69, Cl. 260-313.1
Mizzoni, Renat Herbert, to Ciba Corporation. 1-Pyridylalkyl-2-spirocyclopropanes. 3,455,937, 7-15-69, Cl. 260-294.8
Mizzoni, Renat Herbert, to Ciba Corporation. 1-Substituted-diphenyl-azacycloalkenes. 3,468,893, 9-23-69, Cl. 260-293.
Mizzoni, Renat Herbert, to Ciba Corporation. Basically etherified bisphenols. 3,481,941, 12-2-69, Cl. 260-294.7
Mizzoni, Renat Herbert, to Ciba Corporation. Aralkylamines. 3,483,209, 12-9-69, Cl. 260-294.7
Mizzoni, Renat Herbert; and de Stevens, George, to Ciba Corporation. Quaternary 5-ammoniummethyl-4-amino-2 cycloalipha- tyl-pyrimidine salts. 3,454,575, 7-8-69, Cl. 260-256.4
Mizzoni, Renat Herbert; Lucas, Robert Armistead; and de Stevens, George, to Ciba Corporation. Manufacture of cyclopropyl compounds. 3,455,923, 7-15-69, Cl. 260-256.4
Mizzy, Inc.: *See*—
Zimmet, Arthur L.; and Hubbard, Richard H., 3,461,867.
MJB Company: *See*—
Johnson, Thor E., 3,425,382.
M&K Leasing Co.: *See*—
Blunk, Boyde W.; and Owen, Frank, III, 3,433,004.
Mlachnik, Albert A.: *See*—
Burns, Fredrick B.; D'Ercoli, Giacinto C.; and Mlachnik, Albert A.,3,473,183.

Mlacker, Siegfried; Mack, Hans; and Karl, Lorenz, to Voith Getriebe KG. Fluid coupling with constant filling. 3,426,535, 2-11-69, Cl. 60-54.
Mlacker, Siegfried: *See—*
Muller, Helmut; and Mlacker, Siegfried,3,481,148.
M. L. Aviation Company, Limited: *See—*
Lobelle, Marcel J. O.; and Gregory, John, 3,438,060.
Lobelle, Marcel Jules Odilon, deceased; Leonard, Paul Derrick; and Hypher, Noel Charles; executors, 3,473,166.
Mlavsky, Abraham I.: *See—*
Di Benedetto, Bernard A.; and Mlavsky, Abraham I.,3,429,818.
MMM Munchener Medigin Mechanik GmbH: *See—*
Huber, Johann, 3,482,930.
Mnichowicz, Donald A.; and Waco, Richard F., to Automatic Electric Laboratories, Inc. Communication switching marker having continuity testing arrangement. 3,480,735, 11-25-69, Cl. 179-18.
Mo, Frank S. C.: *See—*
Trimble, Cebern B.; Mo, Frank S. C.; and Combs, Ollah,3,478,341.
Mo och Domsjo Aktiebolag: *See—*
Ahlstedt, Gunnar Lennart, 3,451,522.
Ahlstedt, Gunnar Lennart, 3,457,978.
Ahlstedt, Gunnar Lennart, 3,481,375.
Alvang, Folke N.; and Nordgren, Kurt A., 3,446,697.
Eriksson, Erik Helmer; Frisk, Olof Edvin; and Hogberg, Lars-Gunnar, 3,443,610.
Grunewald, Helmut; and Waag, Ake, 3,429,822.
Grunewald, Helmut; and Steijner, Olof, 3,438,742.
Grunewald, Helmut; and Steijner, Olof, 3,438,743.
Moren, Rolf Erhard; and Hammar, Stig E. H., 3,424,169.
Nilsson, Thomas; and Assarsson, Anders, 3,486,969.
Nordstrand, Leif R., 3,423,796.
Scholander, Axel Fredrik; and Brannland, Rolf Karl August, 3,427,236.
Steijner, Olof, 3,438,744.
Moakley, Douglas F.: *See—*
Malhotra, Sudarshan K.; Moakley, Douglas F.; and Johnson, Francis,3,463,810.
Moan, Richard D.: *See—*
Bookout, Charles C.; and Moan, Richard D.,3,470,693.
Moan, Richard D., to Ford Motor Company. Truck transmission. 3,446,092, 5-27-69, Cl. 74-682.
Moat, Arthur R. Fishing reel. 3,451,638, 6-24-69, Cl. 242-84.45
Moates, Guy H.: *See—*
Kennedy, John K.; and Moates, Guy H.,3,453,370.
Mobark Instruments: *See—*
Barkouki, Moghazi F., 3,478,327.
Mobay Chemical Company: *See—*
Britain, J. W., 3,422,066.
Cross, James M., 3,445,516.
Cross, James M.; Campbell, Clyde D.; and Metzger, Sidney H., 3,450,759.
Cross, James M.; and Metzger, Sidney H., 3,471,542.
Cross, James Martin; Metzger, Sidney H., Jr.; and Campbell, Clyde D., 3,454,505.
Ernst, Rolf K., 3,436,022.
Gable, Clarence L., 3,475,372.
Gemassmer, Alois M.; and Rawlings, Herbert L., 3,453,184.
Gurley, Jesse Fred, Jr., 3,420,506.
Gurley, Jesse Fred, Jr.; Harp, Emile F.; and Reichard, Edward L., 3,437,276.
Hardy, Edgar E., 3,443,007.
Heiss, Herbert L., 3,479,384.
Heiss, Herbert L., 3,480,656.
Kaufman, Marvin L., 3,484,413.
Loew, Gunther, 3,471,465.
Mahoney, James D., 3,442,411.
Marshack, Irving L., 3,437,551.
McGregor, William A., Jr.; Gemeinhardt, Paul G.; and Gurley, Jesse Fred, 3,421,932.
Metzger, Sidney H., Jr., 3,479,351.
Nason, Beverly Ross, 3,475,035.
Sandridge, Robert L., 3,479,393.
Saunders, James H., 3,455,850.
Szabat, John F., 3,468,819.
Wirfel, Emanuel W., 3,437,197.
Mobbs, Richard Henry, to Imperial Smelting Corporation (N.S.C.) Limited. Tetrafluorobenzen-1,4-dithiol and 4,4-dimercapto- octafluorobiphenyl: 3,468,960, 9-23-69, Cl. 260-609.
Mobelec Societe Anonyme Holding: *See—*
Cominassi, Adolphe; and Danko, Etienne, 3,454,780.
Cominassi, Adolphe; and Danko, Etienne, 3,473,040.
Moberg, Raymond H., to Sperry Rand Corporation. Coincident current memory apparatus and method. 3,479,656, 11-18-69, Cl. 340-174.
Moberg, Sigurd M., to Brooks, E. J., Company. All-plastic seal. 3,466,077, 9-9-69, Cl. 292-322.
Moberg, Sigurd M., to Brooks, E. J., Company. All-plastic seal. 3,467,427, 9-16-69, Cl. 292-322.
Moberg, Sigurd M., to Brooks, E. J., Company. Seal. 3,485,521, 12-23-69, Cl. 292-320.
Moberly, Charles W., to Phillips Petroleum Company. Olefin polymerization process and catalyst system. 3,484,424, 12-16-69, Cl. 260-93.7
Moberly, Lawrence E.: *See—*
Boes, David J.; and Moberly, Lawrence E.,3,437,592.
Mobil Oil Corporation: *See—*
Allen, Linus S., Jr., 3,435,218.
Andress, Harry J., Jr., 3,449,097.
Andress, Harry J., Jr.; and Gee, Paul Y. C., 3,449,424.
Andress, Harry J., Jr., 3,455,665.
Argauer, Robert J., 3,431,219.
Armstrong, Eldon L.; and Davis, Robert H., 3,432,434.
Ashjian, Henry, 3,456,036.
Bach, Henry J., 3,475,212.
Baker, Charles Ovid, 3,469,627.
Barclay, Raymond W., 3,444,097.
Barry, Edward G., 3,474,969.
Blatz, Paul E.; and Erickson, James O., 3,475,515.
Blatz, Paul E.; and Faris, Sam R., 3,479,390.
Blount, Floyd E., 3,470,952.
Bodkin, Ernest A.; and Maziuk, John, 3,432,425.
Boston, William G.; Brandner, Carl F.; and Foster, William R., 3,470,956.
Braid, Milton; and Law, Derek A., 3,445,391.
Brandner, Carl F.; Dunlap, Peggy M.; Foster, William R.; and Hurd, Billy G., 3,437,141.
Bray, Ellis E.; and Zimmerman, John R., 3,446,597.
Brennan, James A., 3,440,263.
Brennan, James A., 3,445,390.
Brewster, Elton J.; and Rousso, Jack J., 3,465,348.
Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L., 3,450,772.
Brooks, Warren B., 3,454,083.
Brown, Ellis M.; Loper, George B.; and Otto, Bernard, 3,468,396.
Bruno, Guenter, 3,476,788.
Bruno, Guenter, 3,476,789.
Burdyn, Ralph F.; and Nelson, Murrell D., 3,433,312.
Butcosk, Richard A., 3,449,248.
Byrd, Wendell M., Jr.; and Camacho, Vasco G., 3,459,733.
Caldwell, Richard L.; and Zemanek, Joseph, Jr., 3,425,507.
Caldwell, Richard L., 3,432,667.
Caldwell, Richard L., 3,434,568.
Camacho, Vasco G.; Anderson, James J.; and Byrd, Wendell M., Jr., 3,465,068.
Campbell, Craig C., 3,471,420.
Canada, James R., 3,430,701.
Carlson, Frank A., Jr., 3,444,283.
Carlson, Frank A., Jr., 3,482,006.
Chandler, Ray J., 3,467,410.
Chen, Nai Yuen, 3,420,770.
Chibnik, Sheldon, 3,423,382.
Chibnik, Sheldon; and Frangatos, Gerassimos, 3,487,108.
Childs, Elbert B.; and Krulish, John A. C., 3,452,586.
Ciric, Julius; and Reid, Luther J., Jr., 3,433,589.
Clayton, William J.; Miller, Robert J.; and Smith, Clair C., 3,466,212.
Connally, Carl, Jr., 3,429,372.
Cook, Evin L., 3,428,129.
Cook, Evin L.; and Talash, Alvin W., 3,434,541.
Cook, Evin L., 3,437,143.
Corbett, Herbert O.; Quackenbush, John J.; and Allen, Charles H., 3,471,606.
Cox, David B., 3,443,663.
Cox, David B., 3,449,025.
Cox, John B., 3,446,986.
Crawford, Jack E.; Foster, Harold M.; and Higgins, Thomas W., 3,465,004.
Cummings, Walter W., 3,430,696.
Custard, Herman C., 3,485,103.
Dahan, Paul C., 3,476,246.
Davies, Carl A., 3,437,147.
Davis, John B.; and Yarbrough, Henry F., 3,457,044.
Davis, Kenneth G., 3,466,347.
Davis, Robert H., 3,422,166.
De Monterey, Francis G. A., 3,450,736.
Derr, Walter R., Jr.; and Davis, Francis E., Jr., 3,474,026.
Diamond, William E.; and Perry, George W., 3,433,024.
Dickert, Joseph J., Jr.; Heilweil, Israel J.; and Rowe, Carleton N., 3,423,316.
Dingley, Alan J., 3,467,189.
Dotson, Billy J.; and Connally, Carl, Jr., 3,434,542.
Dunlap, Peggy M.; Brandner, Carl F.; and Townsend, Harold L., 3,467,190.
Dunlap, Peggy M.; and Foster, William R., 3,468,377.
Duval, Claiborne A., Jr.; and Gainer, Alvis B., 3,426,065.
Ehrlich, Henry L., 3,460,626.
Etherington, Robert W., Jr.; and Liauw, Koei-Liang, 3,476,808.

Faris, Sam R.; and Custard, Herman C., 3,481,206.
Foglia, Andrew J.; and Feiter, Joseph J., Jr., 3,440,208.
Foglia, Andrew J.; Stancell, Arnold F.; and Mc Gowan, Raymond J., 3,440,238.
Foster, Harold M.; and Kilsheimer, John R., 3,467,753.
Foster, William R.; Hurd, Billy G.; and Dunlap, Peggy M., 3,437,140.
Foy, Leonard A.; and Provence, Thomas K., Jr., 3,469,520.
Garwood, William E., 3,474,025.
Geacintov, Cyril; Eichenbaum, Raymond; and Wu, William C. L., 3,464,962.
Gee, Paul Y. C.; and Andress, Harry J., Jr., 3,485,756.
Gee, Paul Y. C.; and Andress, Harry J., Jr., 3,485,858.
Germann, Reimar; and Wiederwohl, Kurt, 3,471,763.
Giammaria, John J., 3,431,204.
Givens, Wyatt W., 3,434,161.
Givens, Wyatt W., 3,435,216.
Givens, Wyatt W., 3,435,217.
Glass, John R.; and Liederman, David, 3,432,403.
Gough, Stanley T. D., 3,468,909.
Guarino, John P.; and Williams, Robert H., 3,459,648.
Haddad, James H.; and Mitchell, John G., 3,483,115.
Hamilton, Lyle A.; and Landis, Phillip S., 3,433,821.
Hamilton, Lyle A., 3,454,596.
Hartley, Robert B., 3,470,954.
Heiba, El-Ahmadi I., 3,428,688.
Heiba, El-Ahmadi I.; and Dessau, Ralph M., 3,435,080.
Herd, Richard S.; and Otto, Ferdinand P., 3,446,736.
Hollabaugh, George R., 3,434,534.
Howard, Wayne A., 3,451,402.
Hubbard, Jack L., 3,430,695.
Hurd, Billy G.; and Foster, William R., 3,469,630.
Hurd, Billy G., 3,474,864.
Hurd, Billy G., 3,477,508.
Ireland, Henry R., 3,436,336.
Jakaitis, Eugene A.; Littler, Francis W.; and Roblendano, Emilio A., 3,432,319.
Johnson, Malcolm O., 3,434,562.
Kaufman, Harold A.; Napier, Roger P.; and Gough, Stanley T. D., 3,469,004.
Kaufman, Harold A., 3,470,172.
Kaufman, Harold A., 3,483,246.
Kelly, John, Jr., 3,461,980.
Kelly, John, Jr., 3,467,208.
Kerns, Clyde W, 3,421,140.
Kerr, George T.; Plank, Charles J.; and Rosinski, Edward J., 3,442,795.
Kerr, George T., 3,459,676.
Kilsheimer, John R.; and Kremer, Ross A., 3,468,919.
Kochl, William J., Jr., 3,448,021.
Kochl, William J., Jr., 3,448,022.
Koons, David S., 3,421,583.
Kvenvolden, Keith A., 3,480,396.
Landis, Philip S.; and Boswell, Donald E., 3,420,854.
Law, Derek A., 3,442,807.
Lawrence, Philip L., 3,435,411.
Leaman, Wilbur K., 3,433,732.
Leavitt, Richard I., 3,474,001.
Lessells, Gerald A.; and Panagiotakis, Nicholas, 3,458,144.
Levy, Boris, 3,462,354.
Limbach, Anthony Paul; and Foglia, Andrew J., 3,448,775.
Loper, George B., 3,434,561.
Loper, George B., 3,435,195.
Lowell, Arthur I., 3,449,311.
Macfarlane, Benedict; and Jones, Charles A., III, 3,463,725.
Manning, William F., 3,421,579.
Manning, William F., 3,426,859.
Manning, William F., 3,434,295.
Manning, William F., 3,434,442.
Manning, William F., 3,471,174.
Manning, William F., 3,479,673.
Manning, William F., 3,482,408.
Matthews, William R., 3,459,259.
Maziuk, John, 3,436,335.
McCabe, Leo J., 3,437,596.
Mears, William G.; Schmidt, Karl R.; and vander Stracten, Herman J., 3,421,367.
Melton, Thomas M., 3,458,569.
Melton, Thomas M., 3,470,272.
Melton, Thomas M.; and Brown, David A., 3,476,836.
Melton, Thomas M., 3,479,418.
Melton, Thomas Mason; and Kaufman, Harold A., 3,428,655.
Messenger, Joseph U.; and Webster, William W., 3,454,095.
Messenger, Joseph U., 3,467,193.
Messersmith, Lewis D.; Smith, George Revere; and Waller, James R., Jr., 3,444,520.
Metler, Alvin V., 3,428,120.
Miale, Joseph N.; and Weisz, Paul B., 3,432,568.
Miale, Joseph N.; and Weisz, Paul B., 3,471,412.
Mills, William R., Jr., 3,420,998.
Mitchell, Albert C., Jr., 3,453,830.
Moore, Earl, 3,467,949.
Moore, Ralph W.; and Brennan, William R., 3,433,606.
Murphy, Charles L., 3,478,823.
Murphy, Charles L., 3,480,080.
Myers, Herbert; Olszewski, William F.; and Butcosk, Richard A., 3,429,814.
Myers, Herbert, 3,471,404.
Myers, Herbert; and Kozacik, Alfred P., 3,481,871.
Offenhauer, Robert D.; and Scheiner, Peter, 3,431,189.
Oleck, Stephen M.; and Stover, William A., 3,471,410.
Orkin, Bernard A.; and Braid, Milton, 3,436,334.
Otto, Bernard, 3,467,984.
Otto, Ferdinand P.; and Herd, Richard S., 3,436,347.
Otto, Ferdinand P.; and Logothetis, Andreas, 3,445,386.
Papayannopoulos, Andreas G.; and Papay, Andrew George; now by judicial change of name, 3,446,739.
Patel, Arvindbhai S., 3,485,317.
Peterson, Bertil Albin, 3,437,594.
Plank, Charles J.; and Rosinski, Edward J., 3,431,218.
Plank, Charles J.; and Rosinski, Edward J., 3,436,357.
Plank, Charles J.; and Rosinski, Edward J., 3,459,501.
Plank, Charles J.; and Rosinski, Edward J., 3,459,679.
Plank, Charles J.; and Rosinski, Edward J., 3,459,680.
Plank, Charles J.; and Rosinski, Edward J., 3,462,377.
Romberg, Francis M., 3,432,805.
Roper, Wilbur F., 3,473,368.
Rousso, Jack J., Jr., 3,432,806.
Schotland, Ronald S., 3,468,862.
Slusser, Marion L.; and Bramhall, William E., 3,468,376.
Starr, Leon; and Mullier, Michel E., 3,423,431.
Starr, Leon, 3,431,190.
Stein, Nathan, 3,434,540.
Strubhar, Malcolm K.; and Slover, Vasel R., Jr., 3,478,584.
Taranto, Frank J.; and Weindel, Herman F., 3,440,194.
Townsend, Robert D., Jr., 3,434,550.
Weekman, Vern W., Jr., 3,464,914.
Weisz, Paul B., 3,437,586.
White, Roy A., 3,442,880.
Williams, Albert L., 3,449,442.
Williams, Albert L.; and Kinney, Robert E., 3,476,815.
Yan, Tsoung-Yuan, 3,444,074.
Zemanek, Joseph, Jr.; and Caldwell, Richard L., 3,426,585.
Zemanek, Joseph, Jr., 3,434,563.
Zemanek, Joseph, Jr., 3,435,224.
Zemanek, Joseph, Jr., 3,478,839.

Mobilaid Inc.: *See*—
Pivacek, William J., 3,482,873.

Mobilaid Incorporated: *See*—
Pivacek, William J., 3,453,027.

Mobille, George T.: *See*—
Leach, Byron E., 3,421,981.

Mobius, Hans Eberhard. Apparatus for cooling an annular coil constituted by a plurality of convolutions of hot wire. 3,484,048, 12-16-69, Cl. 239-424.

Mobius, Hans Eberhard. Double walled tubular assemblage for cooling elongate material. 3,486,554, 12-30-69, Cl. 165-47.

Mobius, Hans-Eberhard; Muller, Fritz H.; and Busch, Theodor. Process for pickling bundled materials. 3,449,163, 6-10-69, Cl. 134-1.

Mobley, Clarnece W., Jr.: *See*—
Koehnen, Earl A.; and Mobley, Clarnece W., Jr.,3,436,028.

Mobley, Frederick F.; and Fischell, Robert E., to United States of America, Navy, mesne. Enhanced magnetic damping system. 3,456,900, 7-22-69, Cl. 244-1.

Mobley, George A., to Clemson Industries, Inc. Air dryer. 3,477,193, 11-11-69, Cl. 53-22.

Mobley, Lorelcy Spencer, to Dravo Corporation. Steel making apparatus. 3,477,705, 11-11-69, Cl. 266-13.

Mobykote Produktions G.m.b.H.: *See*—
Sibert, Wilhelm, 3,453,209.

Mocek, Aloysius M.: *See*—
Panek, George James; and Mocek, Aloysius M.,3,452,316.

Moch, Pierre, to CIT-Compagnie Industrielle des Telecommunications. Telegraph electronic control device. 3,482,042, 12-2-69, Cl. 178-17.

Mochel, Ellen L., to Corning Glass Works. Method of treating strengthened glass surface to increase acid durability. 3,451,796, 6-24-69, Cl. 65-31.

Mochel, Ellen L., to Corning Glass Works. Mechanical strengthening of glass by ion exchange. 3,485,702, 12-23-69, Cl. 161-1.

Mochida, Yasunori; Kurokawa, Ikuji; Ishimura, Kazukiyo; and Sotome, Hiromi, to Nippon Gakki Co., Ltd. Loudspeadker. 3,464,514, 9-2-69, Cl. 181-32.

Mochizuki, Katsumasa; Mochizuki, Toshio; and Mochizuki, Sayoka. Tissue paper container set. 3,459,329, 8-5-69, Cl. 221-34.

Mochizuki, Kyishi, to Mochizuki Manufacturing Company Limited. Band fixing device. 3,425,104, 2-4-69, Cl. 24-265.

Mochizuki Manufacturing Company Limited: *See*—
Mochizuki, Kyishi, 3,425,104.

Mochizuki, Masaji, to San-Ei Sokki Kabushikikaisha (San-Ei Instrument Co., Ltd.). Gas concentration measuring instrument. 3,482,431, 12o9-69, Cl. 73-23.
Mochizuki, Sayoka: *See*—
Mochizuki, Katsumasa; Mochizuki, Toshio; and Mochizuki, Sayoka,3,459,329.
Mochizuki, Takani: *See*—
Tsuboi, Kiyoshi; and Mochizuki, Takani,3,427,298.
Mochizuki, Toshio: *See*—
Mochizuki, Katsumasa; Mochizuki, Toshio; and Mochizuki, Sayoka,3,459,329.
Mock, Donald E., to Anjac Plastics, Inc. Door or related structure. 3,426,482, 2-11-69, Cl. 49-501.
Mock, Donald E., to Anjac Plastics Inc. Structural members and doors and related structures formed from the same. 3,479,770, 11-25-69, Cl. 49-501.
Mock, Donald E., to Anjac Plastics, Inc. Hinge mechanism. 3,484,895, 12-23-69, Cl. 16-178.
Mock, Vernon A.: *See*—
Berry, Thomas L., Jr.; Mock, Vernon A.; and Olson, Richard S.,3,423,860.
Mock, Walton L.; and Taylor, Willie, to Smico Inc. Superimposed gyratory sifters. 3,422,955, 1-21-69, Cl. 209-315.
Mockesch, Erich: *See*—
Sauttr, Gerd; Mockesch, Erich; and Gotz, Franz,3,478,756.
Mockrik, Isadore. Reversible tool handle. 3,438,414, 4-15-69, Cl. 145-61.
Mocny, Richard C.: *See*—
Kosmach, Fred C.; Mocny, Richard C.; and Moritz, Donald B.,3,420,030.
Moczala, Helmut, to Licentia Patent-Verwaltungs-G.m.b.H. Direct current motor with transistorized power supply. 3,456,174, 7-15-69, Cl. 318-138.
Moczala, Helmut; and Otzipka, Willi, to Licentia Patent-Verwaltungs-G.m.b.H. Direct current motor with transistorized power supply. 3,452,262, 6-24-69, Cl. 318-138.
Mod, George W.; Medica, Joseph J.; and Bobzin, James E. Beam ceiling suspension member and system. 3,470,666, 10-7-69, Cl. 52-311.
Mod, Robert R.: *See*—
Skau, Evald L.; Mod, Robert R.; and Magne, Frank C.,3,420,837.
Skau, Evld L.; Mod, Robert R.; and Magne, Frank C.,3,431,269.
Mod, William A.: *See*—
Watson, John D., Sr.; Mod, William A.; and Teumac, Fred N.,3,475,163.
Modderman, Pieter: *See*—
de Visser, Jacob; and Modderman, Pieter,3,479,375.
de Winter, Max Salomon; Modderman, Pieter; and Kloosterman, Johannes,3,429,875.
Modderno, John P., to Modern-Lab., Inc. Method of filling and assembling compartmented dispensing device. 3,420,033, 1-7-69, Cl. 53-36.
Modell, Michael, to Abcor, Inc. Method of and apparatus for the recovery of fractions from chromatographic fractions. 3,455,817, 7-15-69, Cl. 210-23.
Modell, Michael, to Abcor Inc., mesne. Thermal conductivity detector. 3,478,574, 11-18-69, Cl. 73-27.
Modenesi, Pietro. Straddle carrier. 3,452,892, 7-1-69, Cl. 214-394.
Modern Album and Finishing Inc.: *See*—
Frochlig, Guy M., 3,452,918.
Modern Engraving and Machine Corporation: *See*—
Lewis, Harry M., 3,455,236.
Modern Equipment Company: *See*—
Hibbard, William D.; Clark, James E.; and Rapp, Bernard R., 3,465,916.
Schanen, Robert R., 3,424,446.
Modern Factors Corporation: *See*—
Hasday, Irving, 3,463,568.
Modern Industries, Incorporated: *See*—
Schneider, Franklin R., 3,456,119.
Schneider, Franklin R., 3,471,706.
Modern Maid, Inc.: *See*—
Perry, Samuel J., 3,422,809.
Modern Manufacturing Company, Inc.: *See*—
Stuck, Matthew A., 3,431,706.
Modern Precision Engineers (Finchley) Limited: *See*—
Chalmers, David Arthur; and Clements, Harold John, 3,486,138.
Modern Sewerage Systems, Inc.: *See*—
Davis, Cloyd, 3,451,553.
Modern-Lab., Inc.: *See*—
Modderno, John P., 3,420,033.
Modern-Way, Inc.: *See*—
Jellis, James C., Jr., 3,438,184.
Modersohn, Charles W., to Beloit Corporation. Dual orifice vacuum forming mold. 3,449,207, 6-10-69, Cl. 162-411.
Modersohn, Charles W., to Beloit Corporation. Sheet feeder. 3,455,274, 7-15-69, Cl. 118-62.
Modes, Edward S. Screen door latch. 3,463,530, 8-26-69, Cl. 292-128.
Modglin, Donald D., to Automated Machines Corporation. Radiation sensitive currency testing device. 3,443,107, 5-6-69, Cl. 250-219.
Modglin, Leslie D. Trailer for automotive vehicles and the like. 3,446,516, 5-27-69, Cl. 280-415.
Modiano, Victor J., to Hughes Aircraft Company. Large error servo oscillation inhibitor. 3,480,868, 11-25-69, Cl. 328-132.
Modic, Frank J., to General Electric Company. Foamable organopolysiloxane composition and foamed product obtained therefrom. 3,425,967, 2-4-69, Cl. 260-2.5
Modic, Frank J., to General Electric Company. Silicone potting compositions comprising mixtures of organopolysiloxanes containing vinyl groups. 3,436,366, 4-1-69, Cl. 260-37.
Modic, Frank J., to General Electric Company. Low temperature vulcanizing composition and article made therefrom. 3,457,214, 7-22-69, Cl. 260-37.
Modic, Rudolf: *See*—
Daum, Gerhard; Modic, Rudolf; and Richtzenhain, Hermann,3,435,045.
Modine Manufacturing Company: *See*—
Erickson, Ernest A., 3,427,818.
Hayes, John E., 3,455,377.
Huggins, Homer D., 3,486,489.
Johnson, Richard S., 3,456,320.
Poehlman, Robert F., 3,446,276.
Qualley, Ray W.; and Sartain, Everett L., 3,474,720.
Silvey, Harry J., 3,447,443.
Modjeski, Richard N.: *See*—
Pryor, Harry H.; Kessler, Arthur R.; Blacklock, Arthur G.; Neumann, Charles G.; Short, William H.; and Modjeski, Richard N.,3,446,137.
Modla, Andrew Paul. Balancing and ambulating exercising device. 3,438,626, 4-15-69, Cl. 272-70.
Modrak, Thomas M.: *See*—
Coulter, Earl E.; Johnson, Lowell E.; and Modrak, Thomas M.,3,435,598.
Modrey, Henry J. Coupling. 3,460,209, 8-12-69, Cl. 24-211.
Modrey, Henry J. Ratchet-action tool holder. 3,477,486, 11-11-69, Cl. 145-50.
Modrey, Henry John; and Steinmeyer, Gerhard. Dispensing device for singly dispensing magnetizable items. 3,448,894, 6-10-69, Cl. 221-160.
Modrowsky, Fred P.; and Moore, Edward J., to Bendix Corporation, The. Fluid pressure sensing machanism operatively arranged to compensate for changing environmental conditions. 3,444,735, 5-20-69, Cl. 73-182.
Modry, Richard E.: *See*—
French, Jack W.; Lewanski, Richard M.; and Modry, Richard E.,3,456,277.
Modular Systems, Inc.: *See*—
Ostling, Edward J.; Gavinski, Frank R.; and Welch, Philip C., 3,451,362.
Modules Corporation: *See*—
Johnson, Kenneth L., 3,441,073.
Moe, Donald L.: *See*—
Kohls, Dennis E.; Moe, Donald L.; and Reece, Harry W.,3,433,315.
Moe, Gerald A.: *See*—
Gould, Irwin M.; and Moe, Gerald A.,3,477,563.
Gould, Irwin M.; and Moe, Gerald A.,3,477,785.
Moe, Hal K.: *See*—
Gruver, John H.; and Moe, Hal K.,3,465,937.
Moe, James E., to Railroad Accessories Corporation. Railroad track or line circuit surge protectors. 3,423,635, 1-21-69, Cl. 317-16.
Moe, James M.: *See*—
Brewer, Charles C.; Fritz, Richard C.; and Moe, James M.,3,424,808.
Moe, Oliver M.: *See*—
Hanson, Alan R.; Minks, Paul R.; and Moe, Oliver M.,3,421,865.
Moe, Richard G.; and Sieren, Gerald E., to Allis-Chalmers Manufacturing Company. Plow hitch. 3,454,105, 7-8-69, Cl. 172-446.
Moe, Richard G.: *See*—
Walberg, Maynard E.; and Moe, Richard G.,3,420,313.
Moeckl, Ernst. Shutter for an electric razor having a cleaning function. 3,447,241, 6-3-69, Cl. 30-41.
Moed, Hendrik Durk; Claasen, Volkert; and van Dijk, Jan, to North American Philips Company, Inc. Secondary 2-aminomethylbenzodioxane derivatives. 3,444,210, 5-13-69, Cl. 260-340.5
Moed, Hendrik Durk; and Paerels, Gerard Bernard, to North American Philips Company, Inc. 1-Amino-4-phenyl-3-buten-2-ols and salts thereof. 3,420,853, 1-7-69, Cl. 260-343.7
Moed, Henrik Durk, to U.S. Philips Corporation, mesne. 3',4'-Dimethoxy-6-[2-(p-methoxyphenyl)-1-alkyl- alkyl-ethylamino]-hexanophenones and the salts thereof. 3,453,328, 7-1-69, Cl. 260-570.5
Moede, Jerome Albert, to Du Pont de Nemours, E. I., and Company. Polyhydroxy-spiro-bis-indane photographic tanning agent. 3,440,049, 4-22-69, Cl. 96-66.
Moedritzer, Kurt: *See*—
Eisenhuth, Wolfgang H.; Moedritzer, Kurt; and Van Wazer, John R.,3,487,096.

Irani, Riyad R.; and Moedritzer, Kurt,3,438,902.
Moedritzer, Kurt, to Monsanto Company. Direct process for the preparation of organogermanium halides. 3,446,824, 5-27-69, Cl. 260-429.
Moedritzer, Kurt; and Van Wazer, John R., to Monsanto Company. Silicon compounds. 3,466,314, 9-9-69, Cl. 260-448.2
Moedritzer, Kurt; and Van Wazer, John R., to Monsanto Company. Germanium and tin compounds. 3,470,220, 9-30-69, Cl. 260-429.
Moehlenkamp, Donald E., to Conductron Corporation. Control systems. 3,425,445, 2-4-69, Cl. 137-565.
Moehling, Charles, to Amsted Industries Incorporated. Railway truck bolster hydraulically snubbed. 3,438,339, 4-15-69, Cl. 105-197.
Moehlmann, Richard H.: *See—*
Luhowy, Gabriel J.; and Moehlmann, Richard H.,3,465,168.
Moeller & Neumann G.m.b.H.: *See—*
Bier, Albert, 3,475,939.
Buchheit, Otto Karl, 3,456,778.
Greis, Karl, 3,421,395.
Moeller, August: *See—*
Holemann, Hans; Janson, Hans Georg; and Moeller, August,3,460,903.
Moeller, Eugene Charles. Method and apparatus for feeding materials. 3,483,906, 12-16-69, Cl. 146-123.
Moeller, Guido K., to Perkin-Elmer Corporation, The. 10-6 Micron carbon dioxide laser with helium added. 3,464,028, 8-26-69, Cl. 331-94.5
Moeller, John D.; and Hartwig, Robert L., to United States of America, Army, mesne. Vehicle elevation control system. 3,474,707, 10-28-69, Cl. 91-380.
Moeller, R. E.; Love, Robert G.; and Pittman, Forrest C., to Halliburton Company. Method for removing material from the interior of articles. 3,446,667, 5-27-69, Cl. 134-23.
Moeller, Rolf: *See—*
Buchholz, Karl; Stahnecker, Erhard; Grohmann, Johannes; and Moeller, Rolf,3,468,820.
Moellmann, Heinz, to Avco Corporation. Wide speed range gas power converter. 3,472,487, 10-14-69, Cl. 253-69.
Moen, Alfred M. Tub diverter spout. 3,419,914, 1-7-69, Cl. 4-148.
Moen, Alfred M. Anti-hammer faucet device. 3,428,087, 2-18-69, Cl. 137-625.17
Moen, Alfred M. Handle valve. 3,460,571, 8-12-69, Cl. 137-625.17
Moen, Lenard E.: *See—*
Roesner, Lawrence C.; and Moen, Lenard E.,3,456,563.
Moen, Rolf: *See—*
Benson, John O.; and Moen, Rolf,3,447,931.
McKown, William L.; Ball, Murray E.; Moen, Rolf; and Weiss, Verne E.,3,450,538.
Moeritz, Peter F.: *See—*
Schmidle, Otto, 3,460,958.
Moessinger, Albert. Apparatus for controlling the shuttle of a weaving loom. 3,444,902, 5-20-69, Cl. 139-125.
Moffat, Robert J.: *See—*
Becker, John C.; Benjaminson, Albert; Blanz, Jerry A.; Karrer, Henry E.; and Moffat, Robert J.,3,456,216.
Moffatt, Elbert Marston, to United Aircraft Corporation. Gas flow measuring system. 3,469,445, 9-30-69, Cl. 73-194.
Moffatt, Elbert Marston, to United Aircraft Corporation. Acoustic wave sensor. 3,470,395, 9-30-69, Cl. 310-8.1
Moffatt, John G., to Syntex Corporation. Methylthio methyl phenolic compounds and method of producing same. 3,457,315, 7-22-69, Cl. 260-609.
Moffatt, John G.; and Fenselau, Allan H., to Syntex Corporation. 13,17-Seco-17-nitrile-$\Delta^{13(18)}$ steroids of the androstane and estrane series and the process for the preparation thereof. 3,476,794, 11-4-69, Cl. 260-465.
Moffatt, John G.: *See—*
Jones, Gordon H.; and Moffatt, John G.,3,446,793.
Jones, Gordon H.; and Moffatt, John G.,3,457,255.
Verheyden, Julien P.; and Moffatt, John G.,3,472,837.
Moffatt, William G.: *See—*
Byrnes, Joseph E.; and Moffatt, William G.,3,424,130.
Kiesler, Allan; Moffatt, William G.; and Walker, James L.,3,465,423.
Moffett, Robert B., to Upjohn Company, The. 2-Carbamoyl-2-azabicyclo[2.2.2] octanes, and 3-carbamoyl-3- azabicyclo[3.2.2]nonanes. 3,422,092, 1-14-69, Cl. 260-239.
Moffett, Robert B., to Upjohn Company, The. 1,1-Diphenyl-2-methyl-3-alkylideneamino-1- propanols. 3,481,981, 12-2-69, Cl. 260-566.
Moffett, Robert Bruce, to Upjohn Company, The. 1,1-Bis(3,4-methylenedioxyphenyl)-2-methyl-3 (tert-amino) propanols and derivatives thereof. 3,422,120, 1-14-69, Cl. 260-340.5
Moffett, Robert D., to Upjohn Company, The. 1,1-Diphenyl-2-methyl-3-(trimethoxy- benzylamino)-propanols and the salts thereof. 3,467,709, 9-16-69, Cl. 260-570.
Moffett, Robert L. Instrument for determining setting of a lens bevel- edger. 3,457,652, 7-29-69, Cl. 33-200.
Moffitt, Fred L., to United States of America, National Aeronautics and Space Administration. Image magnification adapter for cameras. 3,472,140, 10-14-69, Cl. 95-44.
Mogayzel, John W.; and Adler, Norman, to Little, Arthur D., Inc. Sampling device and methods of preparing and using same. 3,452,601, 7-1-69, Cl. 73-425.4
Mogele, Ludwig, to Siemens Aktiengesellschaft. Method of producing highly pure halogen compounds of gallium and indium. 3,421,844, 1-14-69, Cl. 23-87.
Mogele, Ludwig, to Siemens Aktiengesellschaft. Method of producing highly pure arsenic trichloride. 3,481,698, 12-2-69, Cl. 23-98.
Mogensen, Allan O.; and Naumann, Herbert O., to American Cyanamid Company. Method and apparatus for spinning uniform fibers. 3,436,448, 4-1-69, Cl. 264-176.
Mogensen, Erik: *See—*
Topsoe, Haldor Frederik Axel; Sorensen, Emil; and Mogensen, Erik,3,451,949.
Mogensen, Ralph Mogens. Girder, more particularly for a motorway safety fence. 3,428,299, 2-18-69, Cl. 256-13.1
Mogford, Riley F.; and Thurman, Carl C., Jr., to Dow Chemical Company, The. Polyether urethane foams from certain heteric polyethers. 3,461,086, 8-12-69, Cl. 260-2.5
Moggi, Giovanni: *See—*
Sianesi, Dario; Bernardi, Gian Carlo; and Moggi, Giovanni,3,451,908.
Moggre, Anthonie Jannis: *See—*
Boekhorst, Antonius; and Moggre, Anthonie Jannis,3,458,751.
Hooghordel, Rijk; and Moggre, Anthonie Jannis,3,441,788.
Mogi, Shichizaemon; Toei, Ryozo; and Yamaguchi, Masaichiro, to Kikkoman Shoyu Co., Ltd. Apparatus for making puffed foods. 3,456,575, 7-22-69, Cl. 99-238.
Mogle, Rodman A., to General Electric Company. Combination electrical, mechanical, and thermal connector assembly. 3,467,891, 9-16-69, Cl. 317-101.
Mognet, Jean; Torello, Manuel S.; and Rius, Carlos C., to Empresa Nacional de Autocamiones, S.A. Braking arrangement. 3,445,141, 5-20-69, Cl. 303-6.
Mohamed, Ahmed. Apparatus for circulating heated cleaning solvent through engines. 3,477,452, 11-11-69, Cl. 134-57.
Mohar, Arnulf F.: *See—*
Brewer, George E. F.; Burnside, Gilbert L.; Mohar, Arnulf F.; and Strosberg, Gordon G.,3,444,066.
Mohar, Donald A. Water sprinkler system. 3,445,066, 5-20-69, Cl. 239-189.
Mohasco Industries, Inc.: *See—*
Crawford, Allan H., 3,475,051.
Mohaupt, Henry H., to Petroleum Tool Research, Inc. Gas-generating device for stimulating the flow of well fluids. 3,422,760, 1-21-69, Cl. 102-21.6
Mohawk Data Sciences Corporation: *See—*
Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo, 3,483,523.
Countryman, Albert J.; and Cogar, George R., 3,426,415.
Dalton, John F., 3,426,675.
Dalton, John F.; and Sharples, Philip P., 3,464,612.
Frey, Karl A.; and Simmons, Elmer C., 3,449,734.
Grant, Russell W., 3,463,708.
Halbert, Silas R., 3,424,453.
Koning, Menno G., 3,464,610.
Ladd, Frederick F., Jr.; and Marsh, Lynn W., Jr., 3,422,359.
Ladd, Frederick F., Jr.; Marsh, Lynn W., Jr.; and Muschinske, John E., 3,435,295.
Marsh, Lynn W., Jr.; and Ladd, Frederick F., Jr., 3,427,470.
Nyman, Alexander, 3,446,321.
Nyman, Alexander, 3,459,126.
Nyman, Alexander, 3,459,976.
Nyman, Alexander, 3,477,365.
Sims, John C., Jr., 3,432,695.
Mohawk Rubber Company, The: *See—*
Hindin, Herbert B.; Klang, Robert S.; and Phillips, George M., 3,452,799.
Mohle, Horst: *See—*
Schonmeier, Herbert; and Mohle, Horst,3,477,328.
Mohler, Richard E., to Becton, Dickinson and Company, mesne. Gloves and methods of construction. 3,468,735, 9-23-69, Cl. 156-250.
Mohler, Werner; Reiser, Mario; Popendiker, Kurt; and Von Schuh, Heinz-Georg, to Chemische Werke Albert. Certain oxoalkyldimethylxanthines and a proces for the preparation thereof. 3,422,107, 1-14-69, Cl. 260-256.
Mohney, Wilfred F.: *See—*
Lo Presti, Samuel J.; and Mohney, Wilfred F.,3,451,898.
Mohr, Anne Scheu, to Norcross, Inc. Animated display device. 3,427,642, 2-11-69, Cl. 40-124.1
Mohr, Augustus J., Jr.: *See—*
Buyers, Archie G.; and Mohr, Augustus J., Jr.,3,468,647.
Mohr, Gunther: *See—*
Baron, Heinrich; Klink, Rainer; and Mohr, Gunther,3,426,124.
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart, to Merck, E., A.G. Certain fluorenyl-9-nitrates. 3,452,076, 6-24-69, Cl. 260-466.

Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst, to Merck, E., A.G. Composition for retarding plant growth. 3,476,545, 11-4-69, Cl. 71-76.
Mohr, Gunther; Niethammer, Konrad; Lust, Sigmund; and Schneider, Gerhart, to Merck, E., A.G. 2,6-Dichloro-3,5-dicyano-4-aryl pyridines. 3,468,895, 9-23-69, Cl. 260-294.9
Schmidt, Karl Gunther; Mohr, Gunther; and Lust, Sigmund,3,481,946.
Mohr, Heinrich: *See*—
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert,3,472,799.
Burger, Heinz; Mohr, Heinrich; Priebe, Edmund; Reuter, Lothar; and Weber, Heinz,3,441,524.
Mohr, Max C., to Raytheon Company. Reciprocal digital latching ferrite phase shifter wherein adjacent ferrite elements are oppositely magnetized. 3,425,003, 1-28-69, Cl. 333-31.
Mohr, Robert, to Societe Genevoise d'Instruments de Physique. Hydrostatic sustaining device. 3,482,650, 12-9-69, Cl. 184-5.
Mohr, Rudolf. Folding work table for paper cutting machines. 3,464,303, 9-2-69, Cl. 83-648.
Mohr, Rudolf. Rotary saddle for a paper cutting machine. 3,470,778, 10-7-69, Cl. 83-365.
Mohr, Rudolf: *See*—
Hamprecht, Guenther; Mohr, Rudolf; Fromm, Dieter; Schwarzmann, Matthias; and Vogel, Ludwig,3,458,511.
Mohrbacher, Richard J., to McNeil Laboratories, Inc. Certain 4-diloweralkylamino-lower alkyl-5-pyridyl (or phenyl)-2,3-dihydro-1-benzothiepins and derivatives thereof. 3,444,176, 5-13-69, Cl. 260-294.8
Mohrbacher, Richard J.; and Rasmussen, Chris Royce, to McNeil Laboratories, Inc.(R_1-R_2-Hydroxymethyl)-R_3-R_4- hydroxymethyl)-cyclopentadienes. 3,426,032, 2-4-69, Cl. 260-296.
Mohrbacher, Richard Joseph; Meschino, Joseph Albert; and Rasmussen, Chris Royce, to McNeil Laboratories, Inc.2,3(And 1,3)-Di-(R_4-R_5-hydroxymethyl)-6-R_1- 6-R_2-fulvenes. 3,424,757, 1-28-69, Cl. 260-296.
Mohrbacher, Richard Joseph; Poos, George Ireland; and Roszkowski, Adolph P., to McNeil Laboratories, Inc.Rodenticidal compositions containing certain 5- (R-R_1-R_2-methyl)-7-(R_3-R_4-methylene)-(Rb)- 5-norbornene-2,3-dicarboximides. 3,471,619, 10-7-69, Cl. 424-263.
Mohrbacher, Richard Joseph: *See*—
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; Rasmussen, Chris Royce; and Plampin, James Nelson,3,436,396.
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; and Rasmussen, Chris Royce,3,453,271.
Rasmussen, Chris Royce; Carson, Elizabeth Landis; and Mohrbacher, Richard Joseph,3,433,797.
Mohrhusen, Theodore J., to Fruehauf Corporation. Combination gravity and pneumatic discharge system for hoppers. 3,438,682, 4-15-69, Cl. 302-52.
Mohrien, Walter: *See*—
Noe, Oskar; and Mohrien, Walter,3,457,617.
Mohring, Gustav; Weber, Arno; Glasz, Eugen G.; and Hagele, Gerhard, to Famatex GmbH, Fabrik fur Textilausrustungsmaschinen. Entering arrangement for fabric tentering machines. 3,482,750, 12-9-69, Cl. 226-19.
Mohrle, Dietrich: *See*—
Specker, Hugo; and Mohrle, Dietrich,3,436,450.
Mohrman, Donald W.; and Avila, Francisco C., to General Electric Company. Method for changing the configuration of and for bonding electrical coils of inductive devices. 3,456,338, 7-22-69, Cl. 29-606.
Mohrman, Richard C., to Bausch & Lomb, Incorporated. Optical scanning systems for photoelectric tonometers. 3,449,945, 6-17-69, Cl. 73-80.
Mohrman, Richard C.: *See*—
Gabriel, Alfred P.; Lee, Robert E.; and Mohrman, Richard C.,3,449,946.
Jackson, Earl V.; and Mohrman, Richard C.,3,476,465.
Mohrman, Robert H., to Lockheed Aircraft Corporation. Floating nut assembly and mounting means therefor. 3,455,362, 7-15-69, Cl. 151-41.7
Moirano, Arthur L., to Marine Colloids, Inc. Flan-type milk pudding and method and gelling agent for making same. 3,443,968, 5-13-69, Cl. 99-139.
Moirano, Arthur L., to Marine Colloids, Inc. Dessert gel and composition therefor. 3,445,243, 5-20-69, Cl. 99-131.
Moiso, Ugo: *See*—
Carati, Luigi; Moiso, Ugo; and Craia, Giulio,3,429,870.
Moiso, Ugo; and Papa, Sisto Sergio, to Aziende Colori Nazionali Affini ACNA S.p.A. Cobalt complex monoazo dyestuffs. 3,475,405, 10-28-69, Cl. 260-151.
Moisson, George: *See*—
Barnett, Burton; Moisson, George; and Pietka, Robert J.,3,442,479.
Moiura, Syoji: *See*—
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,448,074.
Mojonnier, Albert B., to Mojonnier, Albert, Inc. Method and apparatus for making caps. 3,422,522, 1-21-69, Cl. 29-412.
Mojonnier, Albert B., to Mojonnier, Albert, Inc. Packaging apparatus. 3,453,803, 7-8-69, Cl. 53-183.
Mojonnier, Albert B., to Mojonnier, Albert, Inc. Method for trimming plastic preforms. 3,461,756, 8-19-69, Cl. 83-17.
Mojonnier, Albert B., to Mojonnier, Albert, Inc. Apparatus for trimming plastic preforms. 3,461,761, 8-19-69, Cl. 83-140.
Mojonnier, Albert B.; and Ayala, Carl, to Mojonnier, Albert, Inc. Method of forming plastic articles. 3,487,139, 12-30-69, Cl. 264-132.
Mojonnier, Albert, Inc.: *See*—
Mojonnier, Albert B., 3,422,522.
Mojonnier, Albert B., 3,453,803.
Mojonnier, Albert B., 3,461,756.
Mojonnier, Albert B., 3,461,761.
Mojonnier, Albert B.; and Ayala, Carl, 3,487,139.
Mojonnier Bros., Co.: *See*—
Skoli, Eugene A.; Witt, Chester J.; Skoli, Sigmund P.; and Mojonnier, Harry G., 3,468,335.
Skoli, Sigmund P., 3,446,241.
Mojonnier, Harry G.: *See*—
Skoli, Eugene A.; Witt, Chester J.; Skoli, Sigmund P.; and Mojonnier, Harry G.,3,468,335.
Mokrytzki, Boris, to Reliance Electric and Engineering Company. Pulse width modulated inverter. 3,461,373, 8-12-69, Cl. 321-9.
Molby, Lloyd A., to Eaton Yale & Towne, Inc. Reversing mechanism for industrial vehicle. 3,446,376, 5-27-69, Cl. 214-140.
Molby, Lloyd A., to Eaton Yale & Towne, Inc. Hydraulic steering control for sharp steering. 3,451,498, 6-24-69, Cl. 180-79.2
Molby, Lloyd A.; and White, James C., Jr., to Eaton Yale & Towne Inc. Articulated vehicle steering. 3,422,919, 1-21-69, Cl. 180-79.2
Molcan, Stefan: *See*—
Plechac, Bohuslav; Velisek, Vaclav; Machovsky, Vaclav; Kadlcik, Bozetech; and Molcan, Stefan,3,429,150.
Molchanov, Alexandr Artemjevich: *See*—
Sigorsky, Vitaly Petrovich; Molchanov, Alexandr Artemjevich; Sitnikov, Leonid Semenovich; and Utjakov, Lev Lazarevich,3,423,703.
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich; Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich,3,430,150.
Molchkov, Felix Ivanovich: *See*—
Likhachev, Jury Nikolaevich; and Molchkov, Felix Ivanovich,3,445,987.
Molcho, Aharon: *See*—
Abrahami, Shoshana; Molcho, Aharon; and Wachs, Reuven (Roman),3,480,561.
Moldavsky, Felix Grigorievich; and Kotelnikov, Anatoly Feofanovich. Glass preserving jars. 3,433,379, 3-18-69, Cl. 215-40.
Moldavsky Nauchno-Issledovatelsky Institute Pishchevoi Promyshlennosti: *See*—
Maltabar, Vasily Markovich; Uljankin, Makhail Georgievich; and Andreev, Vladislav Vladimirovich, 3,460,949.
Moldenhauer, Kurt: *See*—
Kowert, Alexander; Moldenhauer, Kurt; Ries, Ludwig; and Schaefer, Werner,3,454,760.
Ludecke, Heinz-Jurgen; and Moldenhauer, Kurt,3,481,200.
Moldovan, Iuliu; and Grudner, Galina M. Method of removing tetrachloride from gases. 3,460,900, 8-12-69, Cl. 23-2.
Moldovan, Iuliu; and Man, Marinela, to Ministerul Industriei Chimice. Process for the production of sodium phosphates. 3,466,141, 9-9-69, Cl. 23-107.
Moldovan, Michael T.; Drew, Eugene Hodson, deceased; and Robinson, Sherwood Drew; administrators, to AVM Corporation. Vote record pack print device. 3,430,559, 3-4-69, Cl. 101-269.
Moldovan Velniceriu, Adrian; and Mihaiu, Traian, to Ministerul Industriei Chimice. Process for obtaining parachlorophenylisocyanate. 3,467,689, 9-16-69, Cl. 260-453.
Mole, Cecil J., to Westinghouse Electric Corporation. Direct transfer thermoelectric apparatus. 3,482,411, 12-9-69, Cl. 62-3.
Mole, Maurice Frederick; Jacques, James Keith; and Collins, John Desmond, to Albright & Wilson (Mfg.) Limited. Mono haloalkyl bis-hydroxy oxyalkylene phosphates. 3,442,986, 5-6-69, Cl. 260-953.
Mole, Philip J. Self closing vapor controlling cap. 3,478,922, 11-18-69, Cl. 220-86.
Mole-Richardson Co.: *See*—
Hankins, Maxey A., 3,480,250.
Molectro Corporation: *See*—
Koch, Robert L.; Thomas, Earl F.; Miklos, Joseph A.; and Curry, William H., 3,426,423.

Molecular Electronics, Inc.: *See—*
Reich, Bernard; Benanti, Michael A.; and Orloff, William R., 3,440,530.
Molecular Energy Corporation: *See—*
Root, John J., 3,450,570.
Moleculon Corporation: *See—*
Nichols, Larry D.; and Obermayer, Arthur S., 3,481,945.
Moleculon Research Corporation: *See—*
Nichols, Larry D.; Obermayer, Arthur S.; and Panar, Manuel, 3,449,449.
Molenaar, Charles Richard, to General Electric Company. Electrical protective device. 3,440,580, 4-22-69, Cl. 335-18.
Molenaar, Henri Charles. Reciprocating pumps for use with windshield washers. 3,425,088, 2-4-69, Cl. 15-250.02
Molenaar, Henri Charles. Reciprocating pumps for use with windshield washers. 3,445,881, 5-27-69, Cl. 15-250.02
Molenda, Wayne E.: *See—*
Moyer, Wendell W., Jr.; and Molenda, Wayne E.,3,469,002.
Molex Products Company: *See—*
Krehbiel, John H., 3,465,279.
Molgard, Age: *See—*
Sorensen, Carl; and Molgard, Age,3,431,938.
Molho, Fred; and Soupirot, Joel, to Thomson Informatique & Visualisation T.I.B. Radar system with density-zone suppressor. 3,487,405, 12-30-69, Cl. 343-7.
Molik, Ronald E., to United States of America, Navy. Signal sensitive depressed threshold detector. 3,479,599, 11-18-69, Cl. 325-323.
Molimard, Robert, to Laboratoires Jacques Logeais, Societe Anonyme. Apparatus for the equivalent and sychronous feeding of animals. 3,452,716, 7-1-69, Cl. 119-56.
Molin Machine Company Limited: *See—*
Doerman, Eryk Stefan, 3,425,307.
Molina, Orlando G., to North American Rockwell Corporation. Water washable penetrant. 3,461,720, 8-19-69, Cl. 73-104.
Molina, Orlando G., to North American Rockwell Corporation. Flaw detection method using a dye penetrant additive. 3,465,146, 9-2-69, Cl. 250-71.
Molinaro, Angelo A. Tinsel hanging decoration. 3,449,197, 6-10-69, Cl. 161-12.
Molinaro, Lawrence J.: *See—*
Haley, Kenneth M.; Molinaro, Lawrence J.; and Reed, Richard L.,3,438,491.
Moline, Clifford C.: *See—*
Cook, Ralph J.; and Moline, Clifford C.,3,475,010.
Moline Machine Company, Limited: *See—*
Molins, Desmond Walter, 3,437,189.
Moline, Norman L.; and Strand, John R., to Avery Products Corporation. Self-contained, solvent retaining pressure- sensitive adhesive product. 3,464,883, 9-2-69, Cl. 161-167.
Moline, Orlando G., to North American Rockwell Corporation. Inspection method and means. 3,433,062, 3-18-69, Cl. 73-104.
Molino, A. R.: *See—*
Belada, John, 3,470,596.
Molins, Desmond Walter, to Moline Machine Company, Limited. Apparatus for handling rod-shaped articles. 3,437,189, 4-8-69, Cl. 198-22.
Molins, Desmond Walter, to Molins Organisation Limited , The. Machines for manipulating cut tobacco. 3,443,688, 5-13-69, Cl. 209-12.
Molins, Desmond Walter, to Molins Machine Company Limited. Conveying system. 3,486,604, 12-30-69, Cl. 198-38.
Molins, Desmond Walter; and Bennett, George Robert, to Molins Machine Company Limited. Article feeding apparatus. 3,459,456, 8-5-69, Cl. 302-2.
Molins, Desmond Walter; McCombie, Alan Keith; and Barton, Ronald Sidney Charles, to Molins Machine Company Limited. Apparatus for feeding cigarettes. 3,433,347, 3-18-69, Cl. 198-69.
Molins, Desmond Walter; and Rowlands, Tom, to Molins Machine Company Limited. Article testing apparatus. 3,447,679, 6-3-69, Cl. 209-73.
Molins Machine Company, Inc.: *See—*
Valyi, Emery I., 3,438,086.
Molins Machine Company Limited: *See—*
Doerman, Eryk Stefan, 3,485,084.
Gemmell, Robert Ernest Matheson, 3,452,758.
Molins, Desmond Walter; McCombie, Alan Keith; and Barton, Ronald Sidney Charles, 3,433,347.
Molins, Desmond Walter; and Rowlands, Tom, 3,447,679.
Molins, Desmond Walter; and Bennett, George Robert, 3,459,456.
Molins, Desmond Walter, 3,486,604.
Orloff, George, 3,464,316.
Raine, Roydon Henry Gurney, 3,484,055.
Raymond, John Charles, 3,463,519.
Swarbrick, Justin Henry, 3,452,996.
Williamson, David Theodore Nelson; and Muir, Douglas William Ballantyne, 3,437,093.
Williamson, David Theodore Nelson; Kahn, Charles Henri; and Fayolle, Leon, 3,472,103.
Youngman, Derek Henry, 3,420,384.
Youngman, Derek Henry, 3,438,378.
Molins Organisation Limited , The: *See—*
Molins, Desmond Walter, 3,443,688.
Molins Organisation Limited, The: *See—*
Morris, James Ernest; Harrison, Edmund, Jr.; and Szaksz, Julius, 3,448,721.
Muir, Douglas William Ballantyne, 3,435,443.
Muir, Douglas William Ballantyne; and Hider, Philip Frank, 3,453,440.
Molinski, Victor J.: *See—*
Gemmill, Wayne J., Sr.; King, Paul A.; and Molinski, Victor J.,3,436,354.
Molis, Edward W., to Bendix Corporation, The. Mach and air speed indicator. 3,465,583, 9-9-69, Cl. 73-182.
Molitor, Arvid A. Vibrating feeder. 3,473,702, 10-21-69, Cl. 222-203.
Molitor, Edwin A., Jr., to Phillips Petroleum Company. Scrap removal from thermoplastic packaging operations. 3,449,889, 6-17-69, Cl. 53-182.
Molitor, Jerome H.: *See—*
King, Harry J.; Molitor, Jerome H.; and Ward, James W.,3,443,570.
Molitor, Robert L., to Nuclear-Chicago Corporation. Radiation detector for wide-temperature-range operation. 3,426,232, 2-4-69, Cl. 313-93.
Molitor, Victor D. Endless belt installation including belt tightening device. 3,436,979, 4-8-69, Cl. 74-242.15
Molitor, Victor D. Food service carts. 3,478,193, 11-11-69, Cl. 219-386.
Molitoris, Stephen J., to American Safety Equipment Corporation of Michigan. Military helmet adapter. 3,436,760, 4-8-69, Cl. 2-6.
Molitoris, Stephen J., to American Safety Equipment Corporation. Safety helmet ear pads. 3,471,865, 10-14-69, Cl. 2-3.
Molitoris, Stephen J.; Raney, Dennis F.; and Parylo, Gerald A., to American Safety Equipment Corporation. Safety helmet retaining strap. 3,480,966, 12-2-69, Cl. 2-3.
Moll, Bishop Joseph: *See—*
Pajak, Theodore Peter; Barsam, Edward Wesley; and Moll, Bishop Joseph,3,466,733.
Moll, Edward W.: *See—*
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer,3,426,329.
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer,3,426,330.
Moll, Franz: *See—*
Himmelmann, Wolfgang; Moll, Franz; Posse, Rolf-Fred; Riebel, Alexander; and Ulrich, Hans,3,441,412.
Kleist, Walter; Moll, Franz; Kruck, Peter; and Hellmig, Ehrhard,3,436,217.
Moll, Justus: *See—*
Klipping, Gustav; Moll, Justus; and Wiedemann, Werner,3,461,678.
Moll, Karl, to Amchem Products, Inc. Cleaning solution concentrate and method of preparing same. 3,481,877, 12-2-69, Cl. 252-79.5
Moll, Oswin C. Layout system and attachments for flexible coiled tapes. 3,427,721, 2-18-69, Cl. 33-1.
Moll, Robert. Piston pump. 3,465,684, 9-9-69, Cl. 103-160.
Molle, Raoul Desire Joseph; and Durrands, Kenneth James, to Societe Anglo-Belge Vulcain S.A. Nuclear reactors. 3,442,759, 5-6-69, Cl. 176-36.
Moller, Birger Torsten Arne: *See—*
Eriksson, John Thorbjorn; and Moller, Birger Torsten Arne,3,447,742.
Moller, Bynum W., to Moller Enterprises, Inc. Closures for containers. 3,434,614, 3-25-69, Cl. 215-41.
Moller, Edward B. Amalgam carrier and ejector. 3,451,135, 6-24-69, Cl. 32-60.
Moller Enterprises, Inc.: *See—*
Moller, Bynum W., 3,434,614.
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf, to Gerhard Collardin GmbH. Process for the currentless deposition of copper-tin layers. 3,432,337, 3-11-69, Cl. 117-130.
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf, to Gerhard Collardin G.m.b.H. Process for the deposition of copper-tin layers in the absence of current. 3,454,407, 7-8-69, Cl. 106-1.
Moller, Heinz; and Schupp, Karl, to Bosch, Robert G.m.b.H. Blinker type signal system with indication of defective blinker lamp. 3,422,421, 1-14-69, Cl. 340-331.
Moller, J. D., Optische Werke G.m.b.H.: *See—*
Draeger, Jorg A.; and Klein, Friedrich J., 3,446,061.
Moller, Jens L., to Continental Can Company, Inc. Easy opening container with protective bead. 3,473,692, 10-21-69, Cl. 220-47.
Moller, Jens L.; and Nicholson, John B., to Continental Can Company, Inc. Dispensing container with collapsible compartment. 3,471,059, 10-7-69, Cl. 222-95.
Moller, Niels Kann, to Smidth, F. L., & Co. Valve for powdered and granular mterial. 3,450,438, 6-17-69, Cl. 302-21.
Moller, Per Julius Leth, to Slagteriernes Forskningsinstitut. Apparatus for changing the moisture content of a material by the action of air. 3,434,223, 3-25-69, Cl. 34-46.

Moller, Thomas G.: *See—*
Koll, Stanley J.; and Moller, Thomas G.,3,446,382.
Moller, Turner G.: *See—*
Stone, Wayne B., Jr., 3,440,782.
Mollica, Joseph Charles; and Singh, Ajaib, to American Cyanamid Company. Polyether polyurethanes stabilized with phenothiazine derivatives. 3,468,842, 9-23-69, Cl. 260-45.8
Mollison, James W.; and Cain, Robert L., to Inland Container Corporation. Wrapped edge manufacturer's joint. 3,456,863, 7-22-69, Cl. 229-48.
Mollman, Donald B., to General Electric Company. Mounted toroidal electrical component. 3,443,257, 5-6-69, Cl. 336-199.
Molloy, Don C. Adjustable cutting toolholder. 3,481,225, 12-2-69, Cl. 77-58.
Molloy, Everett W., to Yellow Spring Instrument Company, Inc., The. Method and apparatus for measuring gas content. 3,429,784, 2-25-69, Cl. 204-1.
Molloy, Martin: *See—*
Knauert, William F.; and Molloy, Martin,3,439,129.
Molloy, Peter E.: *See—*
Hayes, Richard L.; Molloy, Peter E.; and Swanson, Richard M.,3,458,662.
Molly, Hans. Hydrostatic axial piston unit of the slipping shoe design. 3,424,097, 1-28-69, Cl. 103-162.
Molnar, Ernest L., to Schenuit Industries, Inc. Rotational molding of tires and wheels. 3,470,933, 10-7-69, Cl. 152-330.
Molnar, Eugene J., to Coe Laboratories, Incorporated. Antifungal resinous dental compositions and articles. 3,476,854, 11-4-69, Cl. 424-78.
Molnar, Istvan: *See—*
Haring, Marc; Molnar, Istvan; and Wagner-Jauregg, Theodor,3,431,342.
Molnar, Istvan; Wagner-Jauregg, Theodor; Jahn, Ulrich; and Mixich, Georg, to Siegfried Aktiengesellschaft Zofingen. Therapeutic treatment with 1,2-dihydro-1,2,4- benzotriazine derivatives. 3,482,024, 12-2-69, Cl. 424-249.
Molnar, Robert J.; and Parfomak, Walter, to Bendix Corporation, The. Electronic step integrator. 3,427,609, 2-11-69, Cl. 340-347.
Molnar, Robert J.; and Parfomak, Walter, to Bendix Corporation, The. Solid state display with electronic drive circuitry including feedback control. 3,440,637, 4-22-69, Cl. 340-324.
Molnar, Robert J.: *See—*
Parfomak, Walter; and Molnar, Robert J.,3,427,458.
Molochnikov, Nikolai Vladimirovich: *See—*
Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich,3,459,311.
Molson Industries Limited-les Industries Molson Limitte: *See—*
Iserman, Ernest J., 3,481,097.
Molt, Kenneth R.; and Hechenbleikner, Ingenuin, to Carlisle Chemical Works, Inc. Process of killing fungi, bacteria or nematodes. 3,422,197, 1-14-69, Cl. 424-288.
Molt, Richard P.: *See—*
Morcy, Woodruff A.; Molt, Richard P.; Ames, Victor H.; and Dolin, Edward T.,3,447,697.
Moltchan, Floyd J. Method for joining the ends of strip stock. 3,438,119, 4-15-69, Cl. 29-509.
Molyneux, Lindsay. Analogue to digital converter. 3,478,348, 11-11-69, Cl. 340-347.
Molzahn, Herbert W., to International Harvester Company. Windrower. 3,451,199, 6-24-69, Cl. 56-23.
Molzahn, Herbert W., to International Harvester Company. Power transmission control system. 3,466,948, 9-16-69, Cl. 74-792.
Molzahn, Herbert W., to International Harvester Company. Harvester platform with crop stripper and guiding means. 3,474,602, 10-28-69, Cl. 56-21.
Mombaxet, Rene: *See—*
Le Coz, Francois; Mombaxet, Rene; and Raynaud, Noel,3,431,618.
Momberger, Richard Alan, to Sylvania Electric Products, Inc. Planar spark gap socket. 3,466,491, 9-9-69, Cl. 313-331.
Mommsen, Gordon V., to Possis Machine Corporation. Coating machine with improved work holder. 3,465,714, 9-9-69, Cl. 118-69.
Mommsen, Gordon V.; and Dammar, Raymon H., to Possis Machine Corporation. Electrical rotor and method of winding the same. 3,448,311, 6-3-69, Cl. 310-234.
Momoi, Toshimitu: *See—*
Ono, Minoru; Hujita, Minoru; Momoi, Toshimitu; and Homma, Isamu,3,474,310.
Momoki, Yoshio,: *See—*
Ueno, Akira; Matsuzaki, Etsuko; Momoki, Yoshio,; Ishimaru, Yoshino,; Saito, Gosaku,; and Sakai, Sumio,,3,420,859.
Momotari, Yasumori, to Tohoku Kyodo Kagakukogyo Kabushiki Kaisha. Fungicidal composition containing the Ba-salts of phenol and chlorinated phenols. 3,479,431, 11-18-69, Cl. 424-159.
Momotoshi Watanabe: *See—*
Takeda, Keiichi, 3,479,213.
Mon, George; and Woodward, Kenneth E., to United States of America, Army. Membrane oxygenator. 3,484,211, 12-16-69, Cl. 23-258.5
Mona Industries, Inc.: *See—*
Heyman, Karl; and Messerschmidt, Harold, 3,469,980.
Monacelli, Walter J.: *See—*
D'Alelio, Gaetano F., 3,481,903.
Monaco, Anthony T., to Motorola, Inc. Tuner mechanism. 3,433,081, 3-18-69, Cl. 74-10.8
Monaco, Filomena: *See—*
Shellman, Robert R.; and Crusey, Howard W., 3,442,009.
Monaco, Foster; and Monaco, Rosario. Display-type food server. 3,476,282, 11-4-69, Cl. 220-13.
Monaco, Rosario: *See—*
Monaco, Foster; and Monaco, Rosario,3,476,282.
Monaghan, Alfred C., to Weldotron Corporation. Method and apparatus for heat sealing and cutting film. 3,465,489, 9-9-69, Cl. 53-28.
Monaghan, Alfred C.: *See—*
Connelly, Harold W.; and Monaghan, Alfred C.,3,449,886.
Zelnick, Seymour; and Monaghan, Alfred C.,3,429,100.
Monaghan, Leo J.; Aliberti, Vincent A.; and Sullivan, Daniel M., to Monsanto Company. Process for the blow extrusion of polyvinyl alcohol films. 3,425,979, 2-4-69, Cl. 260-33.2
Monaghan, Ralph: *See—*
Benson, Warren E., Jr.; Breen, Stanley; and Monaghan, Ralph,3,465,243.
Monagle, Daniel J.: *See—*
Buhl, Frank C.; Lees, Ronald D.; and Monagle, Daniel J.,3,479,221.
Harrison, John R.; and Monagle, Daniel J.,3,479,283.
Monahan, Brian J. Instantaneous tumbler change lock. 3,422,646, 1-21-69, Cl. 70-363.
Monarch Machine Tool Company, The: *See—*
Meyer, Henry F., 3,466,971.
Monarch Marking System Company, The: *See—*
Hamisch, Paul H., Sr., 3,440,123.
Rieger, Frederic L.; Kern, Jack I.; and Utzinger, William F., 3,474,234.
Monarch Road Machinery Company: *See—*
Jackoboice, Edward W., 3,430,651.
Jackoboice, Edward W., 3,448,633.
Jackoboice, George A., 3,481,440.
Monarch Rubber Company, The: *See—*
Church, Herman S., 3,436,891.
Monarch Tool & Machinery Co.: *See—*
Budreck, Frances, 3,424,517.
Monash, Albert: *See—*
Roselman, Gary, 3,425,213.
Monbaliu, Marcel Jacob; De Cat, Arthur Henri; and Van Poucke, Raphael Karel, to Gevaert Photo-Producten N.V. Aromatic hydrazine compounds containing a long aliphatic chain. 3,476,763, 11-4-69, Cl. 260-294.8
Monbaliu, Marcel Jacob: *See—*
Van Poucke, Raphael Karel; De Cat, Arthur Henri; and Monbaliu, Marcel Jacob,3,441,414.
Moncada, Gaylord A.: *See—*
Miller, Donald L.; and Moncada, Gaylord A.,3,480,988.
Monck, Myron C.: *See—*
McKinstry, John R.; Monck, Myron C.; and Hayes, Robert L.,3,467,103.
Moncorge, Gerard, to CSF-Compagnie Generale de Telegraphie Sans Fil. High ionization density thermionic coverters. 3,470,393, 9-30-69, Cl. 310-4.
Moncorge, Gerard: *See—*
Huber, Harry; and Moncorge, Gerard,3,460,024.
Moncozet, Jean Joseph: *See—*
Mongodin, Guy Emile; and Moncozet, Jean Joseph,3,459,228.
Moncrief-Lenoir Manufacturing Company: *See—*
Lenoir, Walter F., 3,466,831.
Moncure, Henry, Jr., to Du Pont de Nemours, E. I., and Company. Stablilization of polyoxymethylene with tris-m- methyl phenoxy syn-1,3,5-triazine, and polyamide. 3,480,694, 11-25-69, Cl. 260-857.
Mondar, Inc.: *See—*
O'Shaughnessy, Lawrence P.; and Cooper, Charles M., 3,466,821.
Mondiadis, Dimitri G., to Howmet Corporation. Sterilizable instrument and appliance container. 3,437,423, 4-8-69, Cl. 21-83.
Mondiello, Anthony S. Straight razor guard. 3,456,340, 7-22-69, Cl. 30-30.
Mondon, Herbert, to Zeiss, Carl-Stiftung, d/b/a Zeiss, Carl. Apparatus for producing differentially rectified orthogonal picture plan of spatial objects. 3,450,475, 6-17-69, Cl. 355-52.
Mones, Arthur H.: *See—*
Davis, Edward M., Jr.; and Mones, Arthur H.,3,456,158.
Davis, Edward M., Jr.; McNutt, Robert D.; and Mones, Arthur H.,3,456,159.

Moneypenny, Harold Kenneth; and Kitchener, Ronald, to G.K.N. Group Services Limited. Methods of and apparatus for measuring the hardness of materials. 3,421,364, 1-14-69, Cl. 73-82.
Monforts, A., Maschinenfabrik: *See—*
Reiners, Franz, 3,431,608.
Monge, Antonio Camarasa. Driving mechanism for the weft inserters of shuttleless looms. 3,480,046, 11-25-69, Cl. 139-122.
Monge, Michele; and Abbate Daga, Angelo, to I-T-E Imperial Corporation, mesne. Fluid amplifier system. 3,465,772, 9-9-69, Cl. 137-81.5
Mongelluzzo, Ralph Vincent; and Gay, Charles DC. Valve locking means. 3,450,148, 6-17-69, Cl. 137-296.
Mongerson, Paul A., to Standard Screw Company. Self-lubricating cartridge for use in water faucets or the like. 3,456,677, 7-22-69, Cl. 137-246.11
Mongerson, Paul A., to Standard Screw Company. Tub spout diverter. 3,473,558, 10-21-69, Cl. 137-467.
Mongerson, Paul A.; and Ellison, Joseph E., to Standard Screw Company. Bathtub combination plumbing fixture. 3,443,266, 5-13-69, Cl. 4-191.
Mongesku, William O.: *See—*
Richter, Ralph W.; and Mongesku, William O.,3,463,565.
Mongodin, Guy Emile; and Moncozet, Jean Joseph, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques, de Telecommunications et d'Electronique 'Alcatel'. Sequentially closing and opening alternately seating flow controllers. 3,459,228, 8-5-69, Cl. 137-627.5
Monheim, Hans-Georg, to Monheim, Leonard, Messrs. Production of liquid filled chocolate articles. 3,463,097, 8-26-69, Cl. 107-54.
Monheim, Leonard, Messrs.: *See—*
Monheim, Hans-Georg, 3,463,097.
Monia, Victor: *See—*
Spiegel, Francis X.; and Monia, Victor,3,454,210.
Monici, Andre; and Siwinski, Guy. Electronic stringed musical instrument of percussion. 3,474,180, 10-21-69, Cl. 84-1.13
Monick, John Alexander: *See—*
Barnhurst, James Douglas; Leigh, Gilbert Merlin; and Monick, John Alexander,3,442,812.
Monie, Jean: *See—*
Bossard, Paul; and Monie, Jean,3,428,841.
Monin, Claude, to Cit-Compagnie Industrielle des Telecommunications. Magnetostatic relay arrangement. 3,449,590, 6-10-69, Cl. 307-88.
Monin, Claude, to Cit-Compagnie Industrielle des Telecommunications. Magnetostatic relay. 3,486,035, 12-23-69, Cl. 307-88.
Moniz, William B.: *See—*
Venesky, David L.; and Moniz, William B.,3,446,060.
Monjou, Jacques: *See—*
Mahieu, Claude; Lepeintre, Marcel; and Monjou, Jacques,3,466,238.
Monk, Brian Arthur, to Monk, S. A., (Sutton-in-Ashfield) Limited. Flat twin bed knitting machines. 3,451,230, 6-24-69, Cl. 66-64.
Monk, Hayden; and Pepworth, David Peter, to Imperial Smelting Corporation (N.S.C.) Limited. Process of preparing high purity cadmium hydroxide. 3,453,078, 7-1-69, Cl. 23-183.
Monk, S. A.: *See—*
West, Ernest; Cotton, Ivan C.; Challenger, Frederick R.; and Cotton, Ivan C., 3,449,930.
Monk, S. A., (Sutton-in-Ashfield) Limited: *See—*
Monk, Brian Arthur, 3,451,230.
Monkewitz, Kurt, to Muller, Hans. Coded carrier with pneumatic and cam actuated readout. 3,448,250, 6-3-69, Cl. 235-61.12
Monks, Alfred James, to Associated Electrical Industries Limited. Mass indicator for mass spectrometer utilizing hall effect devices. 3,469,092, 9-23-69, Cl. 250-41.9
Monks, Joseph R., Jr., to Owens-Illinois, Inc. Forehearth addition process for viscosity change. 3,445,255, 5-20-69, Cl. 106-52.
Monks, Joseph R., to Owens-Illinois, Inc. Glass decolorizing with manganese enriched alkali borate glass. 3,482,955, 12-9-69, Cl. 65-134.
Monnich, Carl Eugene, to Sterer Engineering and Manufacturing Company. Solenoid operated valve. 3,424,429, 1-28-69, Cl. 251-129.
Monnier Bros., Inc.: *See—*
Moore, John R.; and Dyle, Daniel J., 3,450,229.
Monnier, Richard E., to Hewlett-Packard Company. Oscilloscope circuits. 3,424,867, 1-28-69, Cl. 178-69.5
Monnier, Robert; and Grandjean, Philippe, to General Trustee Company, Inc., The. Refining of silicon. 3,442,622, 5-6-69, Cl. 23-223.5
Monogram Industries, Inc.: *See—*
Carlson, Kenneth B., 3,447,777.
Corliss, Robert F., 3,454,967.
Jones, Sterling B., 3,426,399.
Palmer, Norbert J., 3,423,957.
Palmer, Norbert James, 3,458,049.
Palmer, Norbert James, 3,473,171.
Monohan, Franklin L. Magnetic memory system. 3,441,909, 4-29-69, Cl. 340-172.5
Monoki, Tiberio: *See—*
Petro, Geza, Jr., 3,451,575.
Monomakhoff, Alexandre, to Charbonnages de France. Apparatus for extraction and quantity determination of gas in air. 3,449,939, 6-17-69, Cl. 73-26.
Monorail Car Wash, Inc.: *See—*
Burrup, Melvin, 3,447,546.
Monotype Corporation Limited, The: *See—*
Tiefenthal, Josef Maria Herbert; and Baylis, Howard Raymond, 3,464,331.
Monpetit, Louis: *See—*
Bassot, Jacques; and Monpetit, Louis,3,433,207.
Bassot, Jacques; and Monpetit, Louis,3,435,809.
Bassot, Jacques; and Monpetit, Louis,3,456,628.
Bassot, Jacques; and Monpetit, Louis,3,465,730.
Bassot, Jacques; and Monpetit, Louis,3,465,731.
Monpetit, Louis; and Huber, Robert, to Societe des Generateurs Jarret (Societe Anonyme). Alternator. 3,443,111, 5-6-69, Cl. 290-1.
Monroe Auto Equipment Company: *See—*
McAfee, Loyd, 3,478,445.
Ward, John G., 3,444,629.
Monroe Belgium N.V.: *See—*
Keijzer, Johan H., 3,466,055.
Monroe, Elmer S., Jr., to Du Pont de Nemours, E. I., and Company. Preheating oxidizing gas reactant in TiO_2 pigment manufacture. 3,449,076, 6-10-69, Cl. 23-202.
Monroe, Elmer Sylvester, Jr., to Du Pont de Nemours, E. I., and Company. Method of steam trap bellows manufacture. 3,435,505, 4-1-69, Cl. 29-158.
Monroe, Hanford D., to FMC Corporation. Rate measuring circuit. 3,424,978, , Cl. 324-70.
Monroe, Hanford D.: *See—*
Kaiser, Willard D.; and Monroe, Hanford D.,3,452,603.
Monroe International, Inc.: *See—*
Dodsworth, James W.; and Fischer, Armin O., 3,460,665.
Kapp, Ludwig J., 3,461,996.
Monroe, Paul Seeley, to Halcon International, Inc. Assembly method. 3,468,014, 9-23-69, Cl. 29-472.1
Monroe, Paul S., to Halcon International, Inc. Method of fabricating heat transfer tubing. 3,432,905, 3-18-69, Cl. 29-157.3
Monroe, Thomas I.; and Goff, Raymon L., to TRW Inc. Hydrostatic single unit steering system. 3,443,378, 5-13-69, Cl. 60-52.
Monroe, Wayne W.: *See—*
Deines, Siegmund; Jeffers, Homer A., Jr.; Monroe, Wayne W.; and Mattingly, John W.,3,484,885.
Monsanto Chemical Company: *See—*
Masson, James C., 3,426,104.
Shen, Chung Yu, 3,473,889.
Speziale, Angelo John; and Ratts, Kenneth Wayne, 3,479,373.
Wygant, James C.; Arons, Howard L.; and Prill, Erhard J., 3,481,973.
Monsanto Chemicals (Australia) Limited: *See—*
Crocker, Henry Peter; and Raper, William George Clive, 3,452,036.
Culbertson, Harry M.; and Buchanan, Alan David, 3,476,707.
Ennis, Brian Colwell; and Matthews, William Edgar, 3,426,026.
Ennis, Brian Colwell; and Crocker, Henry Peter, 3,436,395.
Ennis, Brian Colwell, 3,481,947.
Holan, George, 3,423,200.
Holan, George; and Samuel, Eva L., 3,448,115.
Holan, George; and Samuel, Eva Lea, 3,457,351.
Holan, George; and Ennis, Brian Colwell, 3,471,620.
Holan, George; and Samuel, Eva L., 3,472,863.
Holan, George, 3,481,993.
Holan, George; and Samuel, Eva Lea, 3,482,022.
Samuel, Eva Lea, 3,475,447.
Monsanto Chemicals Limited: *See—*
Ayad, Kamal Naguib, 3,455,676.
Baxter, Samuel; and Gilbert, John Harold, 3,467,570.
Gilbert, John Harold, 3,431,163.
Gilbert, John Harold, 3,431,164.
Jones, Alun Angus; and Rogers, Eric, 3,446,750.
Lloyd, Dewi Gerwyn; and Payne, John, 3,447,365.
Lynch, Eric Royle; and Cummings, William, 3,481,949.
Massey, Ronald, 3,480,197.
McCall, Ernest Bryson; and Rawlings, Terence James, 3,455,951.
Neale, Alan J.; and Roberts, Ryland J., 3,444,144.
Neale, Alan Jeffrey; and Rawlings, Terence James, 3,454,590.
Roberts, Brinley; and Stephenson, Robert James, 3,480,570.
Shepherd, Eric James, 3,455,368.
Skinner, Stanley John, 3,427,371.
Stephenson, Robert James, 3,465,031.
Taylor, Percy Ronald, 3,474,851.
Volans, Peter; and Changani, Pushpkumar Dewanmal, 3,486,674.
Monsanto Chemicals(Australia)Limited: *See—*
Samuel, Eva Lea; and Ennis, Brian Colwell, 3,479,368.

Monsanto Company: *See*—
Abell, Joseph B., Jr.; Fannin, Loyd W.; and Roth, James F., 3,435,090.
Al-Roy, John D., 3,443,720.
Al-Roy, John D., 3,460,711.
Aliberti, Vincent A.; and Nemphos, Speros P., 3,444,270.
Aliberti, Vincent A., 3,444,271.
Alt, Gerhard H.; and Speziale, Angelo John, 3,452,001.
Alt, Gerhard H., 3,470,173.
Alt, Gerhard H., 3,470,174.
Alt, Gerhard H., 3,475,428.
Alt, Gerhard H., 3,479,352.
Alul, Husni R.; and McEwan, Gilbert J., 3,483,262.
Armour, Donald F., 3,447,725.
Aykanian, Ardashus A.; and Shelby, Richard K., 3,424,826.
Aykanian, Ardashus A.; and Hardy, Edgar E., 3,451,103.
Bach, Hartwig C., 3,453,324.
Bachman, Gerald L., 3,444,178.
Baer, Massimo, 3,461,188.
Baizer, Manuel M., 3,438,877.
Baizer, Manuel M., 3,440,154.
Baker, Joseph W., 3,426,049.
Baker, Joseph W., 3,426,127.
Baker, Joseph W.; and Stenseth, Raymond E., 3,429,916.
Baker, Joseph W.; Groenweghe, Leo C. D.; and Stenseth, Raymond E., 3,457,305.
Baker, Joseph W.; and Stenseth, Raymond E., 3,457,306.
Ballard, Louis H.; and Satterley, Buddy L., 3,423,185.
Ballentine, James B.; and Crovatt, Lawrence W., Jr., 3,448,087.
Bannister, Loren W., 3,455,846.
Barker, George E., 3,424,951.
Barker, George E., 3,446,222.
Barker, George E., 3,446,473.
Barker, George E., 3,455,532.
Barker, George E., 3,455,536.
Barker, George E., 3,462,115.
Barker, George E., 3,469,590.
Barker, George E., 3,470,892.
Barker, George E., 3,476,128.
Barlow, Paul D.; and Marshall, John L., Jr., 3,422,516.
Barlow, Paul D., 3,447,210.
Barlow, Paul D.; and Marshall, John L., Jr., 3,478,398.
Barnett, James C., 3,423,343.
Beckham, Rodney D.; and Makin, Earle C., 3,427,362.
Beckham, Rodney D.; Makin, Earle C., Jr.; and Urry, Wilbert H., 3,437,704.
Beer, Ludwig A., 3,432,576.
Beer, Ludwig A., 3,444,267.
Beer, Ludwig A., 3,444,268.
Beer, Ludwig A., 3,444,269.
Biles, James R.; Brennan, Wendell E.; Alexander, Stephen H.; and Hardy, Edgar E., 3,470,016.
Birum, Gail H.; and Matthews, Clifford N., 3,426,073.
Birum, Gail H.; and Matthews, Clifford N., 3,445,570.
Birum, Gail H., 3,446,852.
Birum, Gail H., 3,458,630.
Blake, Edward S.; and Hammann, William C., 3,451,061.
Blanchette, Howard M.; and Osban, William R., 3,439,697.
Bogle, Lewis F., 3,437,617.
Bolles, William L., 3,460,320.
Bonzagni, Francis A., 3,427,219.
Bonzagni, Francis A., 3,428,485.
Bonzagni, Francis A., 3,479,247.
Bowers, Clarence A.; and Bullington, John W., 3,475,208.
Boyd, Joe M.; Grandio, Philip, Jr.; and Lobb, James R., 3,438,741.
Bradley, Bruce R.; and Sims, James G., 3,478,389.
Bradley, Claude G.; and Anderson, Nealie T., 3,471,433.
Brignac, Edmond P.; and Blyth, Randolph C., 3,474,773.
Broussalian, George L., 3,453,316.
Burd, John W.; and Groves, Warren O., 3,441,000.
Burdge, Sam W.; and Carter, Rollins S., 3,429,034.
Burleson, James C.; and Yates, William F., 3,475,308.
Cahill, David R., 3,486,936.
Cairns, Robert Edward, 3,425,176.
Campbell, Charles R.; Hicks, John J., Jr.; and Mathews, Marion J., III, 3,429,783.
Campbell, John Robert, 3,426,075.
Campbell, John Robert; and Hatton, Roger E., 3,450,770.
Campbell, John Robert, 3,452,101.
Carlson, Emil H., 3,424,801.
Carlson, Emil Herbert, 3,458,548.
Carroll, Robert L.; and Irani, Riyad R., 3,437,438.
Carroll, Robert L., 3,437,439.
Carroll, Robert L., 3,437,440.
Carstensen, John P., 3,450,651.
Carter, Ernest P.; and Bell, Robert P., Jr., 3,425,460.
Carter, Richard P., Jr.; Irani, Riyad R.; and Mitchell, Robert S., 3,449,410.
Carter, Richard P., Jr., 3,459,670.
Carter, Richard P., Jr.; and Irani, Riyad R., 3,463,734.
Caviness, Alton L., 3,484,204.
Chapin, Earl C., 3,434,986.
Chapman, Richard D., 3,475,527.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., 3,474,048.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., 3,474,049.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., 3,474,050.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., 3,474,051.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., 3,480,569.
Cheape, Dudley W., Jr.; and Eberhardt, Wayne R., 3,454,542.
Chi, Henry K., 3,444,126.
Chiang, Robert; Evans, Roger A.; and Rhodes, Jerome H., 3,429,861.
Chiang, Robert, 3,448,092.
Chidgey, Ronald W.; and Hills, William H., 3,447,296.
Chupp, John P.; and Early, Jack D., 3,452,142.
Chupp, John P., 3,458,606.
Clampitt, Rodney B.; Birum, Gail H.; and Anderson, Richard M., 3,468,678.
Cohen, Saul M.; and Derby, Marshall J., 3,438,845.
Cohen, Saul M.; and Derby, Marshall J., 3,438,846.
Constantakis, Roberto; and Hudgens, James J., 3,440,685.
Coran, Aubert Yaucher; and Kerwood, Joseph Edward, 3,427,319.
Coran, Aubert Yaucher; and Kerwood, Joseph Edward, 3,473,667.
Crompton, Thomas E., 3,429,953.
Cronkhite, Paul W., 3,482,682.
Crovatt, Lawrence W., Jr., 3,438,949.
Crovatt, Lawrence W., Jr.; and Huffman, William A. H., 3,440,226.
Crovatt, Lawrence W., Jr., 3,454,534.
Crutchfield, Marvin M.; and Irani, Riyad R., 3,429,914.
Crutchfield, Marvin M.; and Irani, Riyad R., 3,470,243.
Crutchfield, Marvin M.; and Irani, Riyad R., 3,470,244.
Crutchfield, Marvin M.; and Irani, Riyad R., 3,474,133.
Crutchfield, Marvin M.; and Irani, Riyad R., 3,483,178.
Curry, Philip E., 3,420,725.
D'Amico, John J., 3,422,078.
D'Amico, John J., 3,442,889.
D'Amico, John J., 3,454,572.
D'Amico, John J., 3,468,876.
Davis, James B., 3,455,831.
Davis, James B., 3,455,832.
Davis, Walter M., 3,450,526.
Davis, Walter M., 3,473,740.
Deex, Oliver Des, 3,428,582.
Dehn, John S.; and Glass, John Arnold, 3,433,841.
Dew, William F., Jr.; Thompson, Byrd T., Jr.; and Leybourne, Allen E., 3,484,213.
Dill, Dale R.; and Van Eenam, Donald N., 3,442,698.
Dill, Dale Robert, 3,451,961.
Dobinson, Frank; and Ringwald, Eugene L., 3,457,237.
Donovan, Donald W., 3,420,431.
Donovan, Donald W., 3,424,363.
Donovan, Donald W., 3,452,921.
Donovan, Donald W., 3,483,908.
Donovan, Donald W.; and Nathan, Richard T., 3,485,434.
Downs, Ronald O.; and Franz, Raymond A., 3,428,702.
Downs, Ronald O.; and Franz, Raymond A., 3,449,457.
Downs, Ronald O.; and Franz, Raymond A., 3,454,668.
Eakins, William J., 3,425,862.
Early, Jack D.; and Chupp, John P., 3,454,638.
Edwards, James W.; and Coffey, Ronald B., 3,421,810.
Edwards, James W.; and Coffey, Ronald B., 3,421,811.
Edwards, James W., 3,454,399.
Eisenhauer, Roy J.; and Evans, Phillip W., 3,479,389.
Eisenhuth, Wolfgang H.; Moedritzer, Kurt; and Van Wazer, John R., 3,487,096.
Elliot, Neil C., 3,447,714.
Elliot, Neil C., 3,452,896.
Elliott, Neil C., 3,480,177.
Ellis, Stancel C.; Hersel, Jorge J.; Johnson, Louis H.; Nelson, Ralph H.; and Yost, Roderick A., 3,454,342.
Emerson, Paul D.; and Carter, Ernest P., 3,461,492.
Emerson, Paul D.; Engelman, Fred H.; Baggett, Frank A.; and Oatfield, John C., 3,477,661.
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N., 3,459,821.
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N., 3,485,883.
Engleman, Frederick H.; and McNamara, Michael M., 3,441,642.
Erwin, Eugene S.; and Marco, Gino J., 3,421,898.
Evans, Robert J.; and Taylor, Keith M., 3,449,399.
Evans, Robert J.; and Taylor, Keith M., 3,449,400.

Evans, Robert J.; and Taylor, Keith M., 3,449,401.
Evans, Robert J.; and Taylor, Keith M., 3,449,402.
Evans, Robert J.; and Taylor, Keith M., 3,471,547.
Evans, Robert J.; and Taylor, Keith M., 3,472,890.
Fannin, Loyd W.; and Makin, Earle C., Jr., 3,424,807.
Fantl, Joel; Hahn, Frank J.; Hardy, Edgar E.; and Heaps, John F., 3,434,989.
Fields, Joseph E., 3,449,250.
Fink, Walter, 3,422,060.
Fink, Walter, 3,431,222.
Fink, Walter, 3,468,922.
Fiorelli, Arthur C.; and Miner, Leland P., 3,461,939.
Fitzgerald, Warren E.; and Knudsen, John P., 3,447,998.
Fitzhugh, Andrew F.; Hunt, Charles F.; and Lavin, Edward, 3,462,513.
Foster, Scott H.; Larkin, James D.; and Williams, Charles R., 3,444,190.
Franks, James C., 3,486,300.
Franz, John E., 3,444,207.
Franz, John Edward, 3,481,954.
Fricke, Louis H., Jr., 3,436,673.
Friedlander, Herbert N.; and Menikheim, Virginia C., 3,479,129.
Gaertner, Van R., 3,459,715.
Garibian, Sarkis K.; and Criner, Gaspard X., Jr., 3,475,522.
Gebhart, Herbert J., Jr.; and Makin, Earle C., Jr., 3,449,241.
Gioia, Steve C.; and Fricke, Louis H., Jr., 3,477,034.
Glass, John Arnold, 3,436,318.
Godt, Henry C., Jr., 3,429,936.
Goodner, Homer W., 3,429,009.
Gorum, Foster O., 3,457,612.
Graham, Paul R.; and Ottinger, August F., 3,468,823.
Grant, David; and Van Wazer, John R., 3,442,921.
Groenweghe, Leo C. D., 3,457,307.
Groenweghe, Leo C. D., 3,457,308.
Groves, Warren O., 3,429,756.
Groves, Warren O., 3,462,323.
Gruber, Bernard A., 3,423,218.
Gutsche, Henry W.; Harris, Darrel M.; and Walsh, Robert J., 3,469,686.
Hahn, Frank J.; and Isaksen, Robert A., 3,480,574.
Hamm, Philip C., 3,458,634.
Hammann, William C.; and Schisla, Robert M., 3,440,894.
Hammann, William C.; and Schisla, Robert M., 3,471,574.
Harris, Alva F., 3,444,108.
Harris, Alva F., 3,466,349.
Harris, Alva F., 3,466,350.
Harris, Darrel M.; and Westhoff, Donald E., 3,436,255.
Harris, Henry E.; and Scruggs, Jack G., 3,424,828.
Hartgrove, Earl H., Jr.; Hirshfeld, Julian J.; and Reuben, Bertie J., 3,484,182.
Hartnett, Robert L., 3,450,780.
Hartnett, Robert L.; and Singleton, Thomas C., 3,481,995.
Harvey, George R., 3,440,239.
Harvey, George R.; and Ratts, Kenneth Wayne, 3,452,080.
Harvey, George R., 3,470,196.
Harvey, George R., 3,471,523.
Hatton, Roger E.; and Stark, Louis R., 3,423,469.
Haynes, Richard T.; Irani, Riyad R.; and Langguth, Robert P., 3,475,293.
Heintz, Daniel N.; and Lange, Robert G., 3,445,188.
Henderson, Zack L., 3,433,137.
Hendrix, John W., Jr.; and Young, Charles W., 3,454,878.
Higginbottom, Harold P.; and LeBlanc, John R., 3,428,593.
Higginbottom, Harold P.; and Le Blanc, John R., 3,444,137.
Higginbottom, Harold P., 3,448,078.
Hill, James C., 3,483,266.
Hill, Robert E.; Mills, George B.; and Morriss, Reuben M., Jr., 3,474,172.
Hills, David G., 3,443,710.
Hilton, Thomas B.; and Kowalski, Xavier, 3,431,206.
Hilton, Thomas B.; and McEwan, Gilbert J., 3,444,086.
Hinderer, Helmuth E.; and Smith, Ralph W., 3,467,623.
Hine, William Robert, Jr.; and Holm, Myron J., 3,461,029.
Hinkebein, John A., 3,436,184.
Hinkebein, John A., 3,442,621.
Hirsch, Stephen S., 3,448,080.
Hirshfeld, Julian J.; Hacklander, Egon H.; and Angevine, William H., Jr., 3,420,616.
Hirshfeld, Julian J., 3,429,104.
Hirshfeld, Julian J.; and Reuben, Bertie Joseph, 3,462,238.
Holladay, Harry P.; and Salyer, Ival O., 3,433,573.
Holton, James R., 3,425,206.
Holton, James R.; Sims, James G.; and Parker, Wesley A., 3,439,489.
Hudson, Robert B.; and Mesmer, Robert E., 3,431,069.
Huebschman, Melvin C., 3,421,820.
Huggins, Clyde J., 3,474,524.
Huggins, James M., 3,457,176.
Irani, Riyad R.; and Mitchell, Robert S., 3,427,129.
Irani, Riyad R.; and Moedritzer, Kurt, 3,438,902.
Irani, Riyad R.; and Mitchell, Robert S., 3,449,409.
Irani, Riyad R.; and Mitchell, Robert S., 3,470,112.
Irani, Riyad R.; and Mitchell, Robert S., 3,475,486.
Irani, Riyad Rida, 3,455,675.
Ishida, Seiichi; and Kawamura, Yuji, 3,475,155.
Jackson, Robert C., 3,485,428.
Johnson, Robert; and Jones, Roy E., 3,484,348.
Junker, Bernhard T.; and Hedrick, Ross M., 3,422,178.
Kare, Morley R., 3,466,789.
Kendall, James R., 3,458,962.
Kern, Roland J., 3,459,832.
Kern, Roland J.; and McManimie, Robert J., 3,478,129.
Killius, Robert J.; and Wiesenborn, Roy W., 3,444,960.
Kinney, Layton C.; and Tompkins, Edwin H., 3,451,813.
Koepp, Ronald L., 3,443,172.
Koerner, Ernest L., Jr.; and Saunders, Elerington, 3,458,282.
Koerner, Ernest L., Jr., 3,479,139.
Koons, Russell E., 3,447,991.
Kornicker, Walter A., 3,474,012.
Kowalski, Xavier; and Shaver, Kenneth J., 3,457,177.
Lam, Tat C., 3,422,288.
Lamb, Douglas J.; and Long, Hiram S., Jr., 3,436,823.
Lauher, Verlin A., 3,474,438.
Lavin, Edward; Markhart, Albert H.; and Santer, James O., 3,480,588.
Lavin, Edward; and Serlin, Irving, 3,483,144.
Le Blanc, John R.; and Burke, William D., 3,438,850.
Le Blanc, John R., 3,444,119.
Leach, Harry S.; and Slate, Johnny L., 3,466,340.
Leib, Robert I.; and Morita, Eiichi, 3,426,003.
Leslie, Frank R., 3,426,987.
Leybourne, Allen E., III, 3,476,523.
Li, Tao Ping, 3,461,084.
Lightner, Gene E., 3,440,883.
Lightner, Gene E., 3,455,325.
Lightner, Gene E., 3,455,326.
Lightner, Gene E.; and Highfill, John F., 3,474,443.
Logomasini, James C., 3,449,477.
Machlin, Lawrence J., 3,438,783.
Machlin, Lawrence J., 3,445,572.
MacPhail, David D., Sr., 3,459,274.
Mahlo, Edwin K., 3,451,985.
Maier, Ludwig, 3,432,559.
Maier, Ludwig, 3,439,032.
Maier, Ludwig, 3,484,490.
Maloney, Jim N., Jr.; Campbell, Charles R.; and Johnson, Robert, 3,457,152.
Mark, Victor, 3,478,117.
Marotta, Ralph, 3,428,425.
Marotta, Ralph; and Teicher, Harry, 3,453,127.
Mason, Robert B.; and Fuerst, Edwin W., 3,420,924.
Mason, Robert B.; Winchester, Raymond E., Jr.; and Strauss, Robert G., 3,420,926.
Mason, Robert B., 3,444,285.
Matthews, Clifford N.; and Birum, Gail H., 3,426,074.
Matthews, Clifford N.; and Birum, Gail H., 3,459,804.
Matzner, Edwin A., 3,449,225.
Matzner, Edwin A., 3,456,054.
Mc Gill, Charles H., 3,479,747.
McIntosh, Euell K.; and Howse, Paul T., Jr., 3,465,618.
McKinley, James J., Jr., 3,438,241.
McManimie, Robert J., 3,442,851.
McManimie, Robert J., 3,448,073.
McNeill, George A.; and Sacks, Jerry D., 3,477,916.
McWhorter, Robert W., 3,429,799.
Mesmer, Robert E., 3,420,620.
Miles, Charles E., 3,475,267.
Miller, Robert E., 3,427,174.
Miller, Robert E.; and McManimie, Robert J., 3,427,337.
Miller, Robert E., 3,471,435.
Mills, Robert H., 3,483,247.
Moedritzer, Kurt, 3,446,824.
Moedritzer, Kurt; and Van Wazer, John R., 3,466,314.
Moedritzer, Kurt; and Van Wazer, John R., 3,470,220.
Monaghan, Leo J.; Aliberti, Vincent A.; and Sullivan, Daniel M., 3,425,979.
Moore, Lloyd M., 3,487,189.
Morgan, Herbert S., Jr.; and Setzer, Carl J., Jr., 3,461,468.
Mortimer, George A., 3,450,686.
Mortimer, George A., 3,451,982.
Mortimer, George A., 3,458,487.
Mortimer, George A., 3,481,908.
Mottus, Edward H., 3,440,237.
Mullins, David M., 3,462,092.
Munch, Ralph H.; and Thompson, Quentin E., 3,458,117.
Myers, Ronald G.; Reid, Samuel C.; and Barton, David M., 3,436,756.
Myers, Ronald G., 3,456,128.
Myers, William C.; and Granteer, David L., 3,443,151.
Nelson, Ronald C.; and Cook, Richard R., 3,447,561.
Nemphos, Speros P.; and Jastrzebski, Michael B., 3,475,514.

Nicholson, James R., 3,475,523.
Nowotny, Kurt A., 3,472,782.
Oatfield, John C.; Davis, Samuel J.; and Couick, John W., 3,457,602.
Olin, John F., 3,422,202.
Olin, John F., 3,429,690.
Olin, John F., 3,442,945.
Olin, John F.; and Hamm, Philip C., 3,450,521.
Olin, John F., 3,475,156.
Olin, John F., 3,475,157.
Olin, John Frank, 3,457,296.
Oliver, George D., 3,433,731.
Opferkuch, Robert E., Jr.; and Thrasher, Bobby R., 3,448,180.
Opferkuch, Robert E., Jr.; and Whatley, Charles W., 3,455,862.
Otstot, Roger S.; Bland, Durwood Gene; and Meeks, James W., 3,440,388.
Otstot, Roger S.; and Carter, Ernest P., 3,453,688.
Ottinger, August F.; and Graham, Paul R., 3,436,309.
Palethorpe, George, 3,487,058.
Parks, James C., Jr.; and Tucker, Huel C., 3,438,243.
Paterson, James G. T.; Smith, Ashley P.; and Sams, James K., 3,461,800.
Paulik, Frank E.; Robinson, Ken K.; and Roth, James F., 3,487,112.
Perry, Eli, 3,454,351.
Pilling, Brian, 3,440,220.
Pilling, Brian, 3,478,006.
Pilling, Brian, 3,487,042.
Pittenger, Evan W.; and Edwards, James W., 3,448,687.
Platzer, Norbert, 3,487,129.
Poe, Russell W., 3,472,784.
Preston, Jack, 3,453,244.
Preston, Jack, 3,484,407.
Price, Jerry L.; and Singleton, Thomas C., 3,429,186.
Ratts, Kenneth Wayne; and Yao, Angelina Ngo, 3,463,822.
Ratts, Kenneth Wayne, 3,478,154.
Reuben, Bertie J.; Kay, Harold D.; Hirshfeld, Julian J.; and Hartgrove, Earl H., Jr., 3,462,297.
Rider, Stuart H., 3,472,915.
Ridgway, James S., 3,426,000.
Ridgway, James S., 3,426,001.
Riess, Jean G.; and Van Wazer, John R., 3,420,864.
Roberts, Grady L., 3,470,261.
Rogstad, Vernon R.; and Sims, Robert W., 3,434,045.
Roth, James F.; and Schaefer, Andrew R., 3,446,865.
Russell, David A.; and Hardy, Edgar E., 3,444,036.
Russell, David A.; and Cynoski, Chester F., 3,458,608.
Schleppnik, Alfred A.; and Oftedahl, Marvin L., 3,455,960.
Schleppnik, Alfred A.; and Oftedahl, Marvin L., 3,468,914.
Schleppnik, Alfred A., 3,474,113.
Schleppnik, Alfred A.; and Oftedahl, Marvin L., 3,476,778.
Schultz, Robert G., 3,446,825.
Scopp, Howard A.; and Sincock, Thomas F., 3,424,342.
Scruggs, Jack G., 3,420,802.
Scruggs, Jack G.; and Tate, Cilton W., 3,426,107.
Scruggs, Jack G., 3,439,491.
Sharp, Dexter B., 3,484,353.
Shaver, Kenneth J., 3,423,321.
Shelby, Richard K., 3,419,939.
Shelby, Richard K.; and Rapp, Jay W., 3,428,238.
Shelby, Richard K., 3,432,640.
Shelby, Richard K., 3,458,903.
Shelby, Richard K., 3,483,284.
Shen, Chung Yu; and Stahlheber, Norman Earl, 3,426,440.
Shen, Chung Yu, 3,431,210.
Shen, Chung Yu, 3,441,374.
Shen, Chung Yu, 3,453,075.
Shen, Chung Yu; and Fitch, Steven J., 3,459,793.
Silverman, Bernard, 3,475,365.
Sims, James G., 3,419,936.
Sims, James G., 3,448,185.
Sims, Marc J.; and Symes, William F., 3,427,314.
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R., 3,429,858.
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R., 3,449,300.
Slocombe, Robert J., 3,451,952.
Smith, George E., 3,426,180.
Smith, George E.; Lightner, Gene E.; and Highfill, John F., 3,456,251.
Smith, George E., 3,480,801.
Smith, Lowell R.; and Speziale, Angelo John, 3,450,747.
Speziale, Angelo John; and Alt, Gerhard H., 3,428,633.
Stearns, Robert I., 3,423,301.
Stevens, Harry M., 3,433,601.
Stevens, Harry M., 3,458,408.
Stevens, Harry M., 3,480,077.
Stoffel, Paul J., 3,461,133.
Stoffel, Paul J., 3,462,420.
Summers, Charles G., 3,467,621.
Suskind, Stuart P.; and Goodwin, Roy D., 3,458,387.
Symes, William F., 3,454,699.
Tapp, James S., 3,458,468.
Tarkington, Terry Wesley; and Martin, William R., 3,439,490.
Teaney, Richard Dean, 3,441,484.
Teicher, Harry; and Marotta, Ralph, 3,455,826.
Thompson, Quentin E., 3,436,441.
Thompson, Quentin E., 3,455,953.
Tierney, Paul A., 3,450,662.
Tierney, Paul A.; and Hedrick, Ross M., 3,451,963.
Tocatlian, Jacques J., 3,441,361.
Torrenzano, Archie P.; and Pincince, Richard T., 3,475,218.
Trementozzi, Quirino A., 3,451,538.
Trementozzi, Quirino A.; Geymer, Douglas O.; Boyd, Thomas; and Dietrich, Heinz J., 3,482,935.
Tremont, Peter L.; and Jackson, Peter F., 3,482,697.
Tucker, William F., 3,428,436.
Veazey, Thomas M., 3,420,267.
Vineyard, Billy Dale, 3,478,107.
Walker, George E., 3,438,971.
Walsh, Robert J., 3,475,867.
Weesner, William E., 3,484,522.
Welhoelter, Milton; and Jenkins, Merrill, 3,461,719.
Welhoelter, Milton; and Jenkins, Merrill, 3,470,732.
Wildi, Bernard S.; and Tuemmler, William B., 3,441,075.
Wildi, Bernard S., 3,449,329.
Williams, James R.; and McIntosh, Euell K., 3,457,610.
Williams, James R.; and McIntosh, Euell K., 3,483,691.
Winchester, Raymond E., Jr., 3,457,592.
Wise, Raleigh Warren, 3,468,161.
Wolf, William D.; and Mottus, Edward H., 3,429,733.
Wolf, William D., 3,471,075.
Wygant, James C.; and Prill, Erhard J., 3,467,616.
Wygant, James C.; and Prill, Erhard J., 3,487,452.
Yao, David C. T.; Hirshfeld, Julian J.; and Reuben, Bertie J., 3,429,647.
Young, Evan J.; and Wilder, Gene R., 3,427,281.
Young, Evan J.; and Wilder, Gene R., 3,481,983.
Young, Raymond H., Jr.; Cohen, Saul M.; Markhart, Albert H.; and Serlin, Irving, 3,444,129.
Young, Raymond H., Jr.; Cohen, Saul M.; and Markhart, Albert H., 3,460,961.
Zienty, Ferdinand B.; and Holm, Myron J., 3,420,870.
Zienty, Ferdinand B.; and Holm, Myron J., 3,420,872.
Zienty, Ferdinand B.; and Holm, Myron J., 3,468,940.
Zienty, Ferdinand B.; and Holm, Myron J., 3,478,020.

Monsanto Graphic Systems, Inc.: *See*—
Day, John, 3,484,022.
Flax, Jerome, 3,450,043.
Levinson, Leo, 3,437,072.

Monsanto Research Corporation: *See*—
Beaver, Emil R., Jr., 3,434,888.
Bedell, Stanley F., 3,454,436.
Blake, Edward S.; and Webster, James A., 3,463,802.
Butler, John Mann, 3,459,712.
Butler, John Mann; and Hathaway, Clayton E., Jr., 3,477,869.
Byrne, Joseph J.; and Wyman, John E., 3,472,812.
Cornell, John H., Jr., 3,437,729.
Dale, James W., 3,480,545.
De Brunner, Ralph E.; and Fincke, John K., 3,423,366.
Deibert, Max C., 3,457,113.
Driscoll, John S.; and Matthews, Clifford N., 3,437,473.
Edelson, Nathan A., 3,444,166.
Gruber, Bernard A., 3,438,816.
Gruber, Bernard A., 3,444,000.
Gruber, Bernard A., 3,454,429.
Gruber, Bernard A., 3,454,430.
Gruber, Bernard A., 3,479,227.
Harris, John E.; and Matthews, Clifford N., 3,428,613.
Hathaway, Clayton E., Jr., 3,423,227.
Hathaway, Clayton E., Jr.; De Brunner, Ralph E.; and Butler, John Mann, 3,435,004.
Hathaway, Clayton E., Jr., 3,455,732.
Henderson, Courtland M., 3,455,132.
Henderson, Courtland M.; Beaver, Emil R., Jr.; and Reitsma, Louis J., Jr., 3,467,555.
Henderson, Courtland M.; and Janowiecki, Richard J., 3,485,680.
Hyatt, Asher A., 3,423,416.
Hyatt, Asher A., 3,444,162.
Hyatt, Asher A., 3,475,445.
James, John C.; Wineman, Robert J.; Gollis, Morton H., deceased; and Gollis, Bernard; administratrix, 3,454,627.
Kantz, Melvin R., 3,481,039.
Lopiekes, Delores V., 3,450,522.
Nielsen, Morris L.; and Greenley, Robert Z., 3,435,013.
Nielsen, Morris L.; Hathaway, Clayton E., Jr.; and Butler, John Mann, 3,455,731.
Parts, Leo P.; and Feairheller, William R., Jr., 3,477,932.
Salyer, Ival O.; and Glasgow, David Gerald, 3,481,823.
Satterfield, Charles N.; Smith, John O.; and McHugh, Kenneth L., 3,436,268.

Scribner, William G.; and Schweitzer, George K., 3,451,807.
Seller, Duglas E.; and Rickman, David W., 3,486,998.
Terry, Peter L.; and Klunder, Kurt W., 3,444,001.
Weesner, William E., 3,423,451.
Weesner, William E., 3,452,074.
Weesner, William E., 3,452,093.
Weesner, William E., 3,459,533.
Wilson, Harry S.; Glasgow, David Gerald; and Salyer, Ival O., 3,481,822.
Yee, Wung Dai; and Deibert, Max C., 3,442,715.

Monsees, Claude E.; and McCall, William H., to Wright Machinery Company, Inc. Tilting bag forming and filling machine. 3,471,993, 10-14-69, Cl. 53-180.

Monsimer, Harold G.; and Grous, Philip P., to Richardson-Merrell Inc. Pyrrolidine-2,2-dimethanols and methods of preparing the same. 3,459,768, 8-5-69, Cl. 260-326.5

Montag, Mordechai, to United States of America, Atomic Energy Commission. Gas, low pressure, differential regulator. 3,421,543, 1-14-69, Cl. 137-505.19

Montagino, Joseph, to Midland-Ross Corporation. Drop bottom furnace and quench chamber. 3,484,085, 12-16-69, Cl. 266-4.

Montagnani, Mario; and Farfaletti-Casali, to European Atomic Energy Community (Euratom). Heat insulation for nuclear reactor pressure tubes. 3,434,925, 3-25-69, Cl. 176-44.

Montagu, Jean I., to Mechanics for Electronics. Limited rotation transducer having permanently magnetized rotor. 3,434,082, 3-18-69, Cl. 335-229.

Montalbano, Anthony P.: *See*—
Teague, Walter Dorwin, Jr.; and Montalbano, Anthony P.,3,451,650.
Teague, Walter Dorwin, Jr.; Montalbano, Anthony P.; and Fromm, Charles W.,3,468,298.

Montalto, Samuel J. Automatic safety ladder. 3,447,633, 6-3-69, Cl. 182-118.

Montalvo, Emanuel; Kranhold, Kenneth G.; and Carlson, Wayland A., to United States of America, Navy. Synchronization system. 3,437,939, 4-8-69, Cl. 328-63.

Montandraud, Jean, to Societe Generale de Recherches et d!Applications Scientifiques Sogeras. Tetracycline and enteric-coated chymotrypsin oral tablets and therapy. 3,424,839, 1-28-69, Cl. 424-26.

Montanez, Daniel R. Exercising the hands using a rod device. 3,443,809, 5-13-69, Cl. 272-67.

Montblanc-Simplo G.m.b.H.: *See*—
Konig, Fritz, 3,453,057.
Konig, Fritz, 3,467,476.

Montcath, George Dewar, to Marconi Company Limited, The, and Standard Telephones & Cables Limited. Apparatus for processing television signals. 3,444,318, 5-13-69, Cl. 178-7.2

Montecatini Edison S.p.A.: *See*—
Ballini, Giuliano; and Bujtar, Carlo, 3,468,962.
Bedetti, Gianfranco, 3,462,250.
Bondi, Enrico; and Larcher, Armando, 3,450,659.
Bucci, Giovanni; Simonazzi, Tonino; Ballini, Giuliano; and Portolani, Augusto, 3,477,985.
Bujtar, Carlo; and Martini, Emilio, 3,444,243.
Cantatore, Giuseppe; and Bonvicini, Alberto, 3,454,670.
Cantatore, Giuseppe, 3,475,518.
Caporali, Giorgio; and Giordano, Nicola, 3,445,501.
Caporali, Giorgio; Ferlazzo, Natale; Giordano, Nicola; and Faletti, Franco, 3,452,077.
Caporali, Giorgio; Barberis, Giuseppe; Ferlazzo, Natale; and Penzo, Vittorio, 3,462,477.
Cappuccio, Vittorio, 3,482,926.
Cavaterra, Enrico; Ferlazzo, Natale; and Petrini, Guido, 3,446,833.
Cavaterra, Enrico; and Ferlazzo, Natale, 3,446,834.
Cavaterra, Enrico; and Ferlazzo, Natale, 3,476,810.
Convalle, Giovanni; and Sfondrini, Pierluigi, 3,423,035.
Crocella, Paolo; and Sirtoli, Mario, 3,440,996.
Dakli, Ibrahim; Ercole, Pietro; and Jacobelli, Franco, 3,423,411.
Dakli, Ibrahim; Lupi, Nazareno; and Morini, Marcello, 3,423,467.
Dall'Asta, Gino; and Carella, Giovanna, 3,449,310.
Dell'Eugenio, Beniamino, 3,426,333.
Fattore, Vittorio; Petrini, Guido; and Cavaterra, Enrico, 3,474,042.
Ferrari, Gianfranco; and Garberi, Angelo, 3,476,801.
Fusco, Raffaello; Losco, Giuseppe; and Perini, Mario, 3,462,519.
Gambaretto, Gian Paolo; Rinaldo, Paolo; and Palato, Mario, 3,479,286.
Giannini, Umberto; and Bruckner, Germana, 3,476,726.
Giordano, Nicola; Cavaterra, Enrico; and Fattore, Vittorio, 3,471,545.
Gozzo, Franco; and Oprandi, Venanzio, 3,458,535.
Hermitte, Franco Barbieri; and Angeletti, Mario, 3,457,101.
Hermitte, Franco Barbieri; and Angeletti, Mario, 3,485,653.
Loffelholz, Marco; Pasetti, Adolfo; and Sianesi, Dario, 3,450,611.
Longiave, Carlo; Castelli, Renato; Andreetta, Alberto; and Garberi, Angelo, 3,420,899.
Losco, Giuseppe, 3,436,464.
Losco, Giuseppe; Rossi, Giorgio; Troiani, Ncola; and Santi, Romano, 3,439,070.
Lubatti, Eugenio; and Pappalardo, Salvatore, 3,420,629.
Lubatti, Eugenio; Pappalardo, Salvatore; and Mirarchi, Ugo, 3,468,992.
Luciani, Luciano; and Corsi, Gianfranco, 3,451,768.
Luciani, Luciano; and Corsi, Gianfranco, 3,461,083.
Minisci, Francesco; Belvedere, Giuseppe; Cecere, Mirella; and Quilico, Adolfo, 3,444,194.
Minisci, Francesco; Galli, Remo; and Quilico, Adolfo, 3,483,255.
Mortillaro, Luigi; Russo, Mario; and Bezzi, Silvio, 3,425,991.
Natta, Giulio; and Sianesi, Dario, 3,420,806.
Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino, 3,422,069.
Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio, 3,435,017.
Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio, 3,438,956.
Natta, Giulio; Chini, Paolo; Mazzanti, Giorgio; and Britz, Amelia, 3,448,083.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; Dall'Asta, Gino; and Sartori, Guido, 3,453,250.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio, 3,458,489.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio, 3,459,725.
Natta, Giulio; Carbonaro, Antonio; Lionetti, Alberto; and Porri, Lido, 3,462,406.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; and Sartori, Guido, 3,476,720.
Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio, 3,476,728.
Natta, Giulio; Mazzanti, Giorgio; Pregaglia, Gianfranco; Valvassori, Alberto; and Sartori, Guido, 3,483,173.
Natta, Guilio; Pino, Piero; and Mazzanti, Giorgio, 3,435,018.
Patron, Germano, 3,423,476.
Portolani, Augusto; Di Giulio, Enzo; and Milano, Mario, 3,427,183.
Pregaglia, Gianfranco; Pozzi, Giancarlo; and Roffia, Paolo, 3,422,073.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto, 3,453,302.
Pregaglia, Gianfranco; Roffia, Paolo; and Pozzi, Giancarlo, 3,468,848.
Pregaglia, Gianfranco; Gregorio, Guglielmo; and Conti, Francesco, 3,479,412.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto, 3,481,961.
Rebaudo, Giovanni, 3,476,828.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine, 3,436,194.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine, 3,458,280.
Saccardo, Pietro; and Smai, Franco, 3,433,591.
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto, 3,453,247.
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto, 3,470,142.
Scarfi, Alberto; and Gugliotta, Emanuele, 3,451,770.
Sfondrini, Pierluigi; and Convalle, Giovanni, 3,424,830.
Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, 3,442,942.
Sianesi, Dario; Bernardi, Gian Carlo; and Pasetti, Adolfo, 3,451,907.
Sianesi, Dario; Bernardi, Gian Carlo; and Moggi, Giovanni, 3,451,908.
Sianesi, Dario; Pasetti, Adolfo; and Tarli, Franco, 3,475,457.
Smai, Franco; and Salvemini, Antonio, 3,475,496.
Tavoletti, Luciano, 3,475,400.
Tonelli, Pietro de Pietri; Rossi, Giorgio; and Barontini, Alberto, 3,436,418.
Turba, Vittorio; Cameli, Nazzareno; and Sartori, Cuido, 3,444,147.
Valvassori, Alberto; and Sartori, Guido, 3,444,146.
Valvassori, Alberto; Cameli, Nazzareno; and Sartori, Guido, 3,467,631.
Vecchio, Martino; Cammarata, Italo; and Lodi, Luciano, 3,442,962.
Vecchio, Martino; Lodi, Luciano; Fattore, Vittorio; and Cammarata, Italo, 3,476,817.
Veronica, Giacinto, 3,441,386.
Veronica, Giacinto; Sironi, Giuseppe; and Colombini, Ariano, 3,479,177.

Montecito Manufacturing Co.: *See*—
Gilmore, John A., 3,483,645.

Monteleone, Joseph J.: *See*—
Anolick, Eugene S.; and Monteleone, Joseph J.,3,453,141.

Monterey Research Laboratory, Inc.: *See—*
Gray, Robert P.; and Beal, John O., 3,485,083.
Montes, Ralph A.: *See—*
Lee, Edward P.; Lombardi, Eugene H.; Montes, Ralph A.; and Stoeckli, Oscar W.,3,470,996.
Montesi, Robert P.: *See—*
Yoke, Michael P.; Montesi, Robert P.; and Paterson, Robert N.,3,434,744.
Montevecchio, Albert J., to Xerox Corporation. Graphic communication system for transmitting reduced redundancy signals at the maximum rate of the communication link. 3,472,953, 10-14-69, Cl. 178-6.8
Montgomerie, George A., to Serck R. & D. Limited. Process control apparatus in which a measured valve is controlled in comparison with a desired valve. 3,445,638, 5-20-69, Cl. 235-151.1
Montgomery, Arvid N., to Du Kane Corporation. Program system. 3,437,767, 4-8-69, Cl. 200-38.
Montgomery, Daniel, to Basic Incorporated. Dolomitic containing refractories and process of producing the same. 3,468,683, 9-23-69, Cl. 106-56.
Montgomery, David C.: *See—*
Michelson, Christian E.; Murphy, James F.; and Montgomery, David C.,3,423,298.
Jacques, James O.; Montgomery, David; and Kuckein, Paul A.,3,479,493.
Montgomery, Dean P., to Phillips Petroleum Company. Production of high softening point asphalt. 3,457,093, 7-22-69, Cl. 106-273.
Montgomery, Donald B.; and Pierce, Norton T., to Massachusetts Institute of Technology. High speed switching devices. 3,466,579, 9-9-69, Cl. 335-201.
Montgomery, Donald H., to RCA Corporation. Memory driver monitoring circuit. 3,479,650, 11-18-69, Cl. 340-173.
Montgomery Elevator Company: *See—*
Hallene, Alan M.; Holuba, Henry J.; and Drexler, John J., 3,450,232.
Montgomery, Elmer M.: *See—*
Patarini, Leon M.; Montgomery, Elmer M.; and Major, Louis A.,3,468,153.
Montgomery, Franklin Luckenbill, to Du Pont de Nemours, E. I., and Company. Process for preparing fluid chloroprene polymers in the presence of dialkyl xanthogen disulfides. 3,472,828, 10-14-69, Cl. 260-92.3
Montgomery, Hoyt G.: *See—*
McNeely, Senate W.; and Montgomery, Hoyt G.,3,439,535.
Montgomery, Jack C. Pallet construction. 3,474,744, 10-28-69, Cl. 108-51.
Montgomery, James L.: *See—*
Brown, Archer W.; Montgomery, James L.; and Beer, Walter A.,3,460,645.
Montgomery, James W.: *See—*
Brown, Joe R.; and Montgomery, James W.,3,460,617.
Montgomery, John R.: *See—*
Bailey, Sidney W.; and Montgomery, John R.,3,462,096.
Montgomery, John R., to Vitramon, Incorporated. Programmed lubrication of bodily traveling machine parts. 3,450,227, 6-17-69, Cl. 184-6.
Montgomery, John Young Condie: *See—*
Angus, Ernest Thomas; Arthur, Hugh MacDonald; Montgomery, John Young Condie; Walker, Donald Ferguson; and Good, Richard Samuel Jonathan,3,457,480.
Good, Richard Samuel Jonathan; Kerr, Andrew Guy; Montgomery, John Young Condie; and Walker, Donald Ferguson,3,453,511.
Montgomery, Lawrence C.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,433,662.
Montgomery, Peter Murdo: *See—*
Stillwell, Peter Frederic Thomas Cryer; Montgomery, Peter Murdo; and Hogg, Richard William,3,432,854.
Montgomery, Rayner A.; and Kilmer, Earl E., to United States of America, Navy. Rupture disc unit. 3,469,733, 9-30-69, Cl. 220-89.
Montgomery, Richard M.: *See—*
Redman, James Charles; Montgomery, Richard M.; and Werner, Richard L.,3,454,135.
Montgomery, Robert R., to Oakland Community College. Instructional booklet. 3,426,447, 2-11-69, Cl. 35-9.
Montgomery, Robert S., to Ingersoll-Rand Company. Wear resistant cobalt bonded tungsten carbide composite. 3,454,375, 7-8-69, Cl. 29-191.2
Montgomery, Vernon H.; and McClure, Roger N., to Ohio Ferro-Alloys Corporation. Method of reducing friability of ferro-alloys. 3,433,283, 3-18-69, Cl. 164-69.
Montgomery, William H.: *See—*
Bailey, Frederick Arthur; and Montgomery, William H.,3,446,955.
Montgomery, William Herbert, to American Cyanamid Company. Package of reactable components. 3,474,898, 10-28-69, Cl. 206-47.
Montgomery, William T. S., to Jacksonville Blow Pipe Company. Machine for the punching and cutting of wood. 3,473,742, 10-21-69, Cl. 241-32.
Monticelli, Giulio. Resilient self-blocking nut. 3,461,935, 8-19-69, Cl. 151-21.
Montle, John F.: *See—*
Feldt, Ralph L.; Montle, John F.; and Skiles, Ernest W.,3,469,071.
Montmollin, Ren'e De; Loeffel, Harsrolf; Oetiker, Alfred; and Buehler, Arthur, to Ciba Limited. Process for hardening gelatine. 3,444,156, 5-13-69, Cl. 260-117.
Montmory, Robert: *See—*
Neel, Louis; Bruyere, Jean-Claude; Massenet, Olivier; and Montmory, Robert,3,484,757.
Montour, Frederick: *See—*
Montour, Wilfred N.; and Montour, Frederick,3,427,020.
Montour, Wilfred N.; and Montour, Frederick. Legging having removable granular weight filled bags. 3,427,020, 2-11-69, Cl. 272-57.
Montres Yema S.A.: *See—*
Blum, Henry L., 3,427,800.
Montrose, Anthony Alan: *See—*
Bell, Marion S.; Montrose, Anthony Alan; and Spoon, Bill Hugh,3,430,479.
Monty, Leo J., to Artisan Industries, Inc. Multi-zone processing apparatus. 3,443,622, 5-13-69, Cl. 159-6.
Montzka, Thomas Alfred, to Bristol-Myers Company. Substituted tartranilic acid resolving agents. 3,452,086, 6-24-69, Cl. 260-519.
Monyette, Donald C.; and Wolske, Dean L., to Fort Howard Paper Company. Adapter to provide multiple size capability for paper towel cabinet. 3,433,544, 3-18-69, Cl. 312-39.
Monzali, Aristide, to Rizzoli Editore S.p.A. Book with pages viewable in three dimensions and with viewer incorporated. 3,462,210, 8-19-69, Cl. 350-140.
Monzulla, Lyle L.; and Santolino, James. Target of joined track sections. 3,458,196, 7-29-69, Cl. 273-103.
Moochhala, Yunus E.: *See—*
Underwood, Herbert N.; and Moochhala, Yunus E.,3,443,381.
Moodie, Ernest W.: *See—*
Croft, Arthur E.; and Moodie, Ernest W.,3,453,585.
Moody Dunbar, Inc.: *See—*
Hensley, Sidney G., 3,430,764.
Moody, Floyd O., to General Motors Corporation. Switch operated by snap acting diaphragm having an eccentrically located cam for manually operating the switch. 3,436,503, 4-1-69, Cl. 200-83.
Moody, Richard E., to Du Pont de Nemours, E. I., and Company. Multiswitch lock. 3,422,318, 1-14-69, Cl. 317-136.
Moog Inc.: *See—*
Bidlack, Jerald D., 3,433,266.
Bidlack, Jerald D.; and Garnjost, Kenneth D., 3,447,422.
Hager, James W., 3,446,435.
Hague, Robert Z.; Ballard, John S.; Lewlew, John J.; and Miller, Franklin G., 3,420,141.
Hawk, George W., 3,430,656.
Thayer, William J.; and Garnjost, Kenneth D., 3,464,318.
Moog Industries, Inc.: *See—*
Scheublein, William A., Jr.; and Fister, Louis P., 3,429,598.
Scheublein, William A., Jr.; Fister, Louis; McNeely, James A.; and Talmage, Jay W., 3,470,721.
Wehner, William C., 3,455,618.
Williams, L Jack; Thayer, William J.; and Garnjost, Kenneth D., 3,455,330.
Moog, Robert A. Electronic high-pass and low-pass filters employing resistance of bipolar transistors. 3,475,623, 10-28-69, Cl. 307-233.
Mooi, John: *See—*
Ballard, Henry D., Jr.; Mooi, John; and Rogers, Edward S.,3,422,033.
Michaels, Glenn O.; and Mooi, John,3,470,262.
Mooi, John; and Michaels, Glenn O., to Sinclair Research, Inc. Process for catalytically dehydrocyclizing aliphatic hydrocarbons. 3,462,505, 8-19-69, Cl. 260-673.5
Mook, Bruno, to Siemens Aktiengesellschaft. Arrangement for the separate regulation of the tube currents for a plurality of X-ray tubes. 3,450,880, 6-17-69, Cl. 250-94.
Mook, Donald E.; and McRoberts, Patrick L., to Borden, Inc. Addition of antioxidants to freeze-dried meat. 3,459,561, 8-5-69, Cl. 99-157.
Moolenaar, Robert J.; and Neipert, Marshall P., to Dow Chemical Company, The. Process for removing polyvalent metal impurities from lithium aluminate. 3,447,897, 6-3-69, Cl. 23-52.
Moomaw, Paul C. Gun sling. 3,441,185, 4-29-69, Cl. 224-1.
Moon, Anthony James Robertson; and Champion, Ronald Cheyney, to Kenco Coffee Company Limited, The. Processing of coffee. 3,427,952, 2-18-69, Cl. 99-236.
Moon, Charles L., to White Motor Corporation. Fuel heating apparatus. 3,472,214, 10-14-69, Cl. 123-122.
Moon, George D., Jr.: *See—*
Katzen, Raphael; Diebold, Vincent B.; and Moon, George D., Jr.,3,445,345.

Moon, Herbert J., to Lakeside Manufacturing, Inc. Display carts with bubble tops. 3,424,510, 1-28-69, Cl. 312-284.
Moon, Herbert J., to Lakeside Manufacturing, Inc. Manufacturing metal legs or the like with ornamental facings. 3,462,818, 8-26-69, Cl. 29-155.
Moon, James N.: *See*—
Doherty, Roger B.; and Moon, James N.,3,436,125.
Moon, John A.: *See*—
Mitchell, Norris W.; and Moon, John A.,3,485,886.
Moon, John J.: *See*—
Price, Lowell T.; Moon, John J.; and Stewart, Charles M.,3,476,823.
Moon, John Robert: *See*—
Evans, Evan William; and Moon, John Robert,3,441,407.
Moon, Malcolm W., to Upjohn Company, The. 2,3-Dialkyl-N-[(haloalkyl)thio]bicarbamimides. 3,484,451, 12-16-69, Cl. 260-308.
Moon, Seaton: *See*—
Stemmerman, Paul Edward; Waschek, Arvid Gayle; and Moon, Seaton,3,487,448.
Moonan, William, to Sprayon Products, Inc. Method and article for the packaging of aerosol products. 3,430,819, 3-4-69, Cl. 222-402.1
Moonan, William; and Skidmore, Richard H., to Sprayon Products, Inc. Apparatus for filling aerosol cans. 3,444,906, 5-20-69, Cl. 141-20.
Moone, Frank, Shoe Co., Inc.: *See*—
Ferreira, Joseph J., 3,452,378.
Mooney Brothers Corp.: *See*—
Dutton, Lloyd K.; and Lynch, Francis K., 3,485,178.
Mooney, Walter G.; Dutton, Lloyd K.; and Lynch, Francis K., 3,432,187.
Mooney, Charles W., to Motorola, Inc. Electromechanical frequency responsive translating device. 3,430,171, 2-25-69, Cl. 335-252.
Mooney, Clifford Eugene. Belt sanders. 3,482,358, 12-9-69, Cl. 51-138.
Mooney, David H., to United States of America, Army. Anti-missile mobile search radar. 3,448,452, 6-3-69, Cl. 343-11.
Mooney, Ida May. Headwear. 3,466,665, 9-16-69, Cl. 2-207.
Mooney, James J., Jr.; and Smith, Marion D., to General Motors Corporation. Power train. 3,426,621, 2-11-69, Cl. 74-720.5
Mooney, John J.: *See*—
Keith, Carl D.; and Mooney, John J.,3,441,359.
Mooney, John Russell, to Mayfield Laboratories, Inc., mesne. Multiphase linear flow machine for making tampons. 3,465,390, 9-9-69, Cl. 19-144.5
Mooney, Melvin, deceased (by Stevens, Dorothy, executrix); and Mooney, Melvin, deceased. Acoustic panels. 3,427,915, 2-18-69, Cl. 84-275.
Mooney, Melvin: *See*—
Mooney, Melvin; and Mooney, Melvin, deceased,3,427,915.
Mooney, Paul C., to Quick-Set, Incorporated. Instrument mount. 3,429,543, 2-25-69, Cl. 248-346.
Mooney, Walter G.; Dutton, Lloyd K.; and Lynch, Francis K., to Mooney Brothers Corp. Tube coupling. 3,432,187, 3-11-69, Cl. 285-55.
Mooney, William: *See*—
Kovacik, Joseph; and Mooney, William,3,452,880.
Mooradian, Aram, to Sterling Drug Inc.Preparation of 5,6,7,8-tetrahydrobenzofuro [2,3-b] pyridines and 1,2,3,4-tetrahydrodibenzofurans. 3,452,033, 6-24-69, Cl. 260-297.
Mooradian, Aram, to Sterling Drug Inc. Certain aryl and hetero aryl oximes and 4- benzoyloxycyclohexanone oxime. 3,481,944, 12-2-69, Cl. 260-296.
Moorcroft, David L.: *See*—
Difford, LeRoy A.; Grennan, Charles W.; and Moorcroft, David L.,3,483,825.
Moore, Alan, to Bristol Siddeley Engines, Limited. Gas turbine blade cooling. 3,437,313, 4-8-69, Cl. 253-39.15
Moore, Alvan A.; and Washington, David L. Portable surface-erected storage container for liquid and dry materials. 3,460,704, 8-12-69, Cl. 220-5.
Moore, Alvin Edward. Fluidfoil ringcraft. 3,431,878, 3-11-69, Cl. 114-66.5
Moore, Alvin Edward. Resiliently flexible vehicle. 3,450,374, 6-17-69, Cl. 244-5.
Moore, Alvin E. Ringplane. 3,443,776, 5-13-69, Cl. 244-5.
Moore, Alvin E.; and Thompson, Willian Ansel. Electrically-fired missile. 3,486,451, 12-30-69, Cl. 102-38.
Moore, Anthony W. Rivet. 3,453,927, 7-8-69, Cl. 85-68.
Moore, Archie E. Sewage comminuting device. 3,439,361, 4-22-69, Cl. 4-10.
Moore, Arthur D., to Canadian Patents and Development Limited. Polarity coincidence correlation method and apparatus for measuring electrical energy. 3,470,471, 9-30-69, Cl. 324-142.
Moore, Arthur Ivan Walter; Porter, John Howard; Middle, George Henry; and Vearncombe, Richard Frank. Cutting tools. 3,464,098, 9-2-69, Cl. 29-105.
Moore, Arthur R., to Minnesota Mining and Manufacturing Company. Zinc oxide maximum efficiency transverse wave crystals and devices. 3,440,550, 4-22-69, Cl. 330-5.5
Moore, Arthur R., to Minnesota Mining and Manufacturing Company. Zinc oxide maximum efficiency length extensional crystals and devices. 3,471,721, 10-7-69, Cl. 310-9.5
Moore, Brian B.: *See*—
Rinaldi, Russell G.; and Moore, Brian B.,3,432,811.
Rinaldi, Russell G.; and Moore, Brian B.,3,445,641.
Moore, Buell, to Esquire Inc. Light fixture. 3,459,934, 8-5-69, Cl. 240-3.
Moore Business Forms, Inc.: *See*—
Ruus, Henn, 3,429,827.
Sargent, Albert A., 3,424,912.
Sargent, Albert A., 3,425,607.
Moore, Caleb P.: *See*—
Mayer, William J.; Krause, Douglas P.; Lange, Walter H.; and Moore, Caleb P.,3,471,696.
Moore, Carl E.; Cassaretto, Frank P.; McLafferty, John J.; and Posvic, Harvey W., to Research Corporation. Separation of cesium from potassium and rubidium. 3,468,959, 9-23-69, Cl. 260-606.5
Moore, Carl: *See*—
Decker, Dalton L.; Moore, Carl; and Tousignant, William F.,3,454,657.
Moore, Charles B.: *See*—
Heinemann, Frederick E.; and Moore, Charles B.,3,466,187.
Moore, Charles Dana: *See*—
Bende, Albert; Hiemenz, George G.; and Moore, Charles Dana,3,465,117.
Moore, Charles E. Dental impression frame and disposable tray. 3,468,029, 9-23-69, Cl. 32-17.
Moore, Chester C., to Stephens-Adamson Mfg. Co. Apparatus for splitting a bar wound in a helix. 3,464,301, 9-2-69, Cl. 83-201.
Moore, Chester W.; and Waner, John L. Closed circuit television protection system. 3,480,727, 11-25-69, Cl. 178-6.
Moore, Clarence C. Antenna support structure. 3,477,676, 11-11-69, Cl. 248-201.
Moore, Clark A., to Clark-Aiken Company, The. Carton sealer. 3,482,371, 12-9-69, Cl. 53-3.
Moore, Clifford William: *See*—
Lasaine, Alfred D.; Mattson, Terrance W.; Moore, Clifford William; and Otey, Glen R.,3,438,345.
Moore, Coleman B., to Moore Products Co. Flow control valve. 3,425,433, 2-4-69, Cl. 137-81.5
Moore, Coleman B.; and Adams, Robert B., to Moore Products Co. Diverting valve. 3,468,330, 9-23-69, Cl. 137-81.5
Moore, Curtis L.: *See*—
Narbut, Paul; and Moore, Curtis L.,3,452,147.
Moore, Danny J.: *See*—
Davison, Verle L.; Pryde, Everett H.; and Moore, Danny J.,3,485,028.
Moore, David E. Reclaiming saline soils. 3,431,675, 3-11-69, Cl. 47-58.
Moore, David E. Reclaiming saline waters. 3,432,427, 3-11-69, Cl. 210-4.
Moore, David L.: *See*—
Armstrong, Jack W.; Moore, David L.; and Schmidt, Frederick C.,3,468,404.
Moore, David Pelton, to Universal Ordnance and Powder Company, The. Explosive with binder of a vinyl chloride copolymer and starch and method of making same. 3,463,683, 8-26-69, Cl. 149-19.
Moore, Donald C., to Reynolds Metals Company. Package means for container means. 3,462,009, 8-19-69, Cl. 206-65.
Moore, Donald L.; Fricke, Paul M., Jr.; and Spilman, Raymond R., to Hamilton Cosco, Inc. Folding chair. 3,466,084, 9-9-69, Cl. 297-58.
Moore, Donald L.; Fricke, Paul M., Jr.; Tucker, William H.; and Spilman, Raymond R., to Hamilton Cosco, Inc. Stack chair. 3,485,525, 12-23-69, Cl. 297-239.
Moore, Donald R.; and Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Acylated hydrazine compounds. 3,441,606, 4-29-69, Cl. 260-561.
Moore, Douglas A.; and Folan, Martin P., to Northrop Corporation. System for recording operational failure history. 3,471,652, 10-7-69, Cl. 179-100.1
Moore, Douglas R., to Rheem Manufacturing Company. Electronic musical instrument. 3,484,529, 12-16-69, Cl. 84-1.01
Moore Drop Forging Company: *See*—
Haznar,, Henry J., 3,467,231.
Moore Dry Kiln Company of Oregon: *See*—
Turner, Donald B.; and Hoffman, Ralph A., 3,430,787.
Moore, Earl K., Jr. Free piston type plunger. 3,424,066, 1-28-69, Cl. 92-193.
Moore, Earl K., Jr. Pneumatically driven plunger construction. 3,424,093, 1-28-69, Cl. 103-52.
Moore, Earl, to Mobil Oil Corporation. Magnetic tape search unit. 3,467,949, 9-16-69, Cl. 340-172.5
Moore, Edward E.: *See*—
Hirschberg, Erwin E.; and Moore, Edward E.,3,424,542.

Moore, Edward J., to Moretrench Corporation. Vacuum line closure method and device for separation chambers in ground-water pumping systems. 3,431,708, 3-11-69, Cl. 55-55.
Moore, Edward J., to Moretrench Corporation. Method and apparatus for removing dispersed liquids from the ground. 3,432,992, 3-18-69, Cl. 55-51.
Moore, Edward J.: *See—*
Modrowsky, Fred P.; and Moore, Edward J.,3,444,735.
Bottorf, Donald Thomas; and Moore, Edward Joseph,3,476,846.
Moore, Edwin Barclay, to Dunlop Company Limited, The. Conductor spacers for multi-conductor electrical overhead transmission lines. 3,479,441, 11-18-69, Cl. 174-42.
Moore, Eugene R.: *See—*
Pawloski, Chester E.; and Moore, Eugene R.,3,440,229.
Moore, Francis C.; and Perkinson, Leon R. Multiple cup tray. 3,441,383, 4-29-69, Cl. 23-292.
Moore, Francis C.; and Perkinson, Leon R. Elbow protector for bedfast persons. 3,458,867, 8-5-69, Cl. 2-16.
Moore, Francis J. Safety door latch mechanism. 3,456,974, 7-22-69, Cl. 292-359.
Moore, Francis R. Grounding shoe for distributing terminal assembly. 3,453,401, 7-1-69, Cl. 179-175.
Moore, Frank Arthur, to Creed & Company Limited. Telegraph receivers. 3,437,754, 4-8-69, Cl. 178-33.
Moore, Frank C.; and Perkinson, Leon R.Disposable surgeon's boot. 3,442,034, 5-6-69, Cl. 36-7.1
Moore, Frank D., to U. S. Stoneware, Inc., mesne. Vibratory mill and its operation. 3,433,421, 3-18-69, Cl. 241-30.
Moore, Frank D.: *See—*
Eckert, John S.; and Moore, Frank D.,3,454,233.
Moore, Frank Woodward: *See—*
Maybury, Gordon Howard; and Moore, Frank Woodward,3,441,765.
Moore, Frederick L.: *See—*
Fadden, James P.; and Moore, Frederick L.,3,433,398.
Moore, George A.: *See—*
Jennings, Jack W.; and Moore, George A.,3,421,546.
Moore, George E., Sr., to Sheetmaster Corporation. Fabric spreading and feeding machine. 3,474,553, 10-28-69, Cl. 38-143.
Moore, George E., to Watson Manufacturing Company, Inc. Filing cabinet. 3,433,548, 3-18-69, Cl. 312-184.
Moore, George E.; and Richardson, Al E., to Sun Steel Treating Incorporated. Sealed recirculating cooling system. 3,426,837, 2-11-69, Cl. 165-47.
Moore, George L.: *See—*
Tedeschi, Robert J.; and Moore, George L.,3,441,621.
Tedeschi, Robert J.; and Moore, George L.,3,474,117.
Tedeschi, Robert J.; and Moore, George L.,3,474,118.
Tedeschi, Robert J.; and Moore, George L.,3,474,119.
Tedeschi, Robert J.; and Moore, George L.,3,474,120.
Moore, Georgia Lee. Food storage apparatus. 3,482,418, 12-9-69, Cl. 62-457.
Moore, Gerald E., to Phillips Petroleum Company. Diazine in a hydrocarbon sweetening process. 3,449,239, 6-10-69, Cl. 208-198.
Moore, Glenn E.; and Lemon, Stephen C., to Dover Corporation. Retaining member for coupling. 3,439,942, 4-22-69, Cl. 285-80.
Moore, Glenn E.: *See—*
Wilson, Fred A.; and Moore, Glenn E.,3,433,387.
Moore, Glenn W., to Borg-Warner Corporation. Mechanical seal with flushing arrangement. 3,484,113, 12-16-69, Cl. 277-62.
Moore, Harlan. Drive mechanism for drilling apparatus and the like. 3,465,604, 9-9-69, Cl. 74-89.
Moore, Harold R.: *See—*
McCaffrey, Bernard E.; Moore, Harold R.; and Pennoyer, Douglas H.,3,426,156.
Moore, Harry B.: *See—*
Sloan, William G.; Moore, Harry B.; Cooper, Albert S., Jr.; and Reeves, Wilson A.,3,480,382.
Moore, Harry W., to Globe Tool and Engineering Company, The. Armature winding machine. 3,455,009, 7-15-69, Cl. 29-205.
Moore, Herbert L. Food slicing guide. 3,435,524, 4-1-69, Cl. 31-15.
Moore, Howard L.: *See—*
Krueger, Theodore H.,3,465,629.
Moore, Howard L. Automatic egg flat washer. 3,443,567, 5-13-69, Cl. 134-58.
Moore, Jackson A.: *See—*
Eskridge, Brewster B.; Fisher, Francis J.; Moore, Jackson A.; and Rhash, Dewaine A.,3,461,521.
Moore, James: *See—*
Powers, Richard C., 3,473,299.
Moore, James C. Collapsible combination chair and table. 3,420,571, 1-7-69, Cl. 297-124.
Moore, James D.; and Fangman, Charles N., to Caterpillar Tractor Company. Combustion seal for cylinder liner in internal combustion engines. 3,463,056, 8-26-69, Cl. 92-171.
Moore, James D.; and Paluska, Roy T., to United States of America, Army, mesne. Intake manifold for internal combustion engines. 3,465,734, 9-9-69, Cl. 123-41.28
Moore, James T.: *See—*
Zitnik, Anthony, Jr.; and Moore, James T.,3,479,917.
Moore, Jesse C., 49% to Kuhlman, Norman H. Apparatus for forming mold material. 3,483,600, 12-16-69, Cl. 25-30.
Moore, Joe D. Suction filtering machine. 3,478,888, 11-18-69, Cl. 210-255.
Moore, John M.; and Motsenbocker, James O., to Phillips Petroleum Company. Uniform cooling of blow molded articles. 3,444,284, 5-13-69, Cl. 264-94.
Moore, John R.; and Dyle, Daniel J., to Monnier Bros., Inc. Air line lubricator. 3,450,229, 6-17-69, Cl. 184-55.
Moore, John; and Wild, John Thomas Henry, to Davy and United Engineering Company Limited. Handling apparatus. 3,458,070, 7-29-69, Cl. 214-301.
Moore, Jonie M. T. Exercising device for attachment to a wheelchair. 3,423,086, 1-21-69, Cl. 272-73.
Moore, Joseph B.: *See—*
Pohlman, Marvin A.; and Moore, Joseph B.,3,457,066.
Moore, Joseph E.: *See—*
McCaskey, Bob L.; Kohn, Gustave K.; and Moore, Joseph E.,3,478,052.
Moore, Lane D.; and Randall, John J., to Borg-Warner Corporation. Method of foaming thermoplastic polymeric materials using hydrocarbyltetrozoles as the foaming agent. 3,442,829, 5-6-69, Cl. 260-2.5
Moore, Lawrence A., to Beloit Eastern Corporation. Unwinding stand and arm positioner therefor. 3,424,394, 1-28-69, Cl. 242-58.6
Moore, Lawrence A., to Beloit Eastern Corporation. Adjustable shot roll. 3,438,100, 4-15-69, Cl. 26-63.
Moore, Lawrence A.; and Klaczkiewicz, Edward J., to Beloit Eastern Corporation. Paper web unwinder shoe brake. 3,455,192, 7-15-69, Cl. 83-175.
Moore, Lawrence K. Pipe collar locator and method of using same. 3,474,539, 10-28-69, Cl. 33-126.
Moore, Lee C., Corporation: *See—*
Campbell, Erwin A., 3,486,737.
Jenkins, Cecil; and Woolslayer, Joseph R., 3,443,646.
Oltermann, John J.; Woolslayer, Joseph R.; and Jenkins, Cecil, 3,435,571.
Moore, Leslie D., to Nalco Chemical Company. Method of making polyamides from hydroxy amides. 3,471,451, 10-7-69, Cl. 260-78.
Moore, Lloyd M., to Monsanto Company. Electro-erosive machining. 3,487,189, 12-30-69, Cl. 219-69.
Moore, Marshall E.: *See—*
White, John B., 3,487,423.
Moore, Norman H.; and Poupitch, Ougljesa Jules, said Moore assor. to Fibreboard Corporation, and said Poupitch assor. to Illinois Tool Works, Inc. Container package. 3,434,592, 3-25-69, Cl. 206-65.
Moore, Ollis O.: *See—*
Nanney, Charles P.; and Moore, Ollis O.,3,468,436.
Moore, Paul A.: *See—*
Land, John R.; and Moore, Paul A.,3,464,885.
Moore Products Co.: *See—*
Kirk, David B., 3,457,940.
Kirk, David B., 3,478,765.
Mamzic, Charles L., 3,454,044.
Moore, Coleman B., 3,425,433.
Moore, Coleman B.; and Adams, Robert B., 3,468,330.
Wylupek, William J., 3,428,079.
Moore, R. D. Floating fish caller. 3,476,493, 11-4-69, Cl. 431-126.
Moore, Ralph W., to Pangborn Corporation, The. Abrasive blasting apparatus. 3,445,966, 5-27-69, Cl. 51-9.
Moore, Ralph W.; and Brennan, William R., to Mobil Oil Corporation. Blending method and apparatus. 3,433,606, 3-18-69, Cl. 44-2.
Moore, Raymond William, Jr.: *See—*
McCullough, John Engstrom; and Moore, Raymond William, Jr.,3,440,390.
Moore Reed (Industrial) Limited: *See—*
Evans, David Silvester, 3,487,401.
Moore, Richard F., to Norma-Hoffmann Bearings Company. Bearing assembly. 3,463,564, 8-26-69, Cl. 308-230.
Moore, Richard K.: *See—*
Frazer, John F.; Holzman, Richard; Ide, Kenton J.; and Moore, Richard K.,3,441,850.
Moore, Richard L.: *See—*
Malcolm, William W.; and Moore, Richard L.,3,483,613.
Moore, Richard N.: *See—*
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N.,3,459,821.
Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N.,3,485,883.
Moore, Robert A., to United States of America, Air Force. Gas actuated vapor feed system. 3,439,501, 4-22-69, Cl. 60-203.
Moore, Robert A., to Allis-Chalmers Manufacturing Company. Friction drive transmission. 3,479,891, 11-25-69, Cl. 74-191.
Moore, Robert E., to Sun Oil Company. Dicarbamate derivatives of alkyladamantanes. 3,450,744, 6-17-69, Cl. 260-468.
Moore, Robert F., to Globe Refractories, Inc. Ladle brick. 3,463,649, 8-26-69, Cl. 106-67.

Moore, Robert G., Jr., to Bendix Corporation, The. Fuel control apparatus including put-and-take fuel by-pass valve means for withdrawing controlled percentage of metered fuel. 3,423,930, 1-28-69, Cl. 60-39.28
Moore, Robert G., Jr.: *See—*
McGinnis, Robert W.; and Moore, Robert G., Jr.,3,438,199.
Moore, Robert Granville, to Hovercraft Development Limited. Gas-cushion vehicles. 3,420,329, 1-7-69, Cl. 180-118.
Moore, Robert L.: *See—*
Buell, Bernard J.; and Moore, Robert L.,3,444,779.
Moore, Robert P., to United States of America, Navy. Non-commutated display for multiple beam sensors. 3,454,711, 7-8-69, Cl. 178-6.
Moore, Robert R.; and Eitzen, Vincent E., to American Hospital Supply Corporation. Preset timer. 3,441,210, 4-29-69, Cl. 235-132.
Moore, Robert, to Hovercraft Development Limited. Gas cushion vehicle with attitude stabilizing means. 3,443,659, 5-13-69, Cl. 180-118.
Moore, Roland, Jr. Floating paint brush holder for paint cans. 3,436,784, 4-8-69, Cl. 15-257.05
Moore, Roy C., to United States of America, Navy, mesne. Multimode hydrophone transducer simulator. 3,435,408, 3-25-69, Cl. 340-5.
Moore, Samuel, and Company: *See—*
Chrow, Albert E., 3,445,583.
Hale, Robert C., 3,474,186.
Paulson, Raymond, 3,478,982.
Moore, Samuel D.: *See—*
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr.,3,423,677.
Moore, Sewell Trezevant: *See—*
Gruber, Arnold Harvey; Moore, Sewell Trezevant; and Light, Charles Ellsworth,3,455,643.
Moore, Stanley C.: *See—*
Garrett, William R.; and Moore, Stanley C.,3,471,177.
Moore, Stuart F.: *See—*
Pugh, William A. G.; and Moore, Stuart F.,3,466,793.
Moore, Thomas M.; and Watters,Edward C., to United States of America, Navy, mesne. Digital log computer. 3,436,533, 4-1-69, Cl. 235-154.
Moore, Thomas R., Jr.; and Butler, Florence P., to Technic, Inc. Heavy metal-diamine-gold cyanide complexes. 3,458,542, 7-29-69, Cl. 260-429.
Moore, Thomas Roscoe, Jr.; Graham, Harold Nathanial; and Gurkin, Martin, to Lipton, Thomas J., Inc. Alkaline conversion of green tea. 3,484,246, 12-16-69, Cl. 99-76.
Moore, Thomas William, to American Machine & Foundry Company. Voltage sensitive and harmonic control circuit. 3,484,702, 12-16-69, Cl. 328-116.
Moore, Walter C.: *See—*
Harlin, Lester E.; and Moore, Walter C.,3,478,957.
Moore, Warren T., to Brown & Root, Inc. Apparatus for pipelaying and trenching operations in a body of water. 3,462,963, 8-26-69, Cl. 61-72.4
Moore, Wiley I.: *See—*
Cruger, Robert W.; Cheslock, Edward P.; Moore, Wiley I.; and Murray, James J.,3,466,598.
Moore, William A. Automotive antitheft device. 3,462,982, 8-26-69, Cl. 70-209.
Moore, William A.; Gross, Arthur; and Skei, Edward C., to Whittaker Corporation. Spherical rotary valve. 3,485,475, 12-23-69, Cl. 251-159.
Moore, William Arthur. Vapor engine system. 3,462,951, 8-26-69, Cl. 60-64.
Moore, William B. Methods and apparatus for verifying the output of automatic print readers and for correcting errors introduced by the print reader. 3,439,986, 4-22-69, Cl. 356-71.
Moore, William C.; and Connors, John D., to Welch Allyn, Inc. Unitary light projecting assembly for diagnostic instruments. 3,441,340, 4-29-69, Cl. 351-16.
Moore, William C.; and Pilgrim, William S., to Welch Allyn, Inc. Streak retinoscope. 3,439,978, 4-22-69, Cl. 351-6.
Moore, William D. Gas turbine exhaust system. 3,446,274, 5-27-69, Cl. 165-83.
Moore, William G., to Dow Chemical Company, The. Method of preparing manganese dioxide. 3,437,435, 4-8-69, Cl. 23-145.
Moore, William H.: *See—*
Mc Connell, Wayne V.; and Moore, William H.,3,442,930.
McConnell, Wayne Varon; and Moore, William Howard,3,467,615.
Moore, William J., to Forney Engineering Company. Ultraviolet sensitive flame detector in cooled housing. 3,437,807, 4-8-69, Cl. 250-83.
Moore, William J.: *See—*
Shenker, Henry; Moore, William J.; and Swiggard, Edward M.,3,457,409.
Moore, William P., Jr.; and MacGregor, Rob R., to Allied Chemical Corporation. Process for making non-shrinking urea- formaldehyde foams. 3,470,115, 9-30-69, Cl. 260-2.5
Moore, William P., Jr.; and Mosier, Jack W., to Allied Chemical Corporation. Dehydrodimerization process and catalyst therefor. 3,435,089, 3-25-69, Cl. 260-680.
Moore, William Percy; Sierichs, William Cornell; and MacGregor, Rob Roy, to Allied Chemical Corporation. Production of magnesium oxide by a fluidized bed process. 3,481,702, 12-2-69, Cl. 23-201.
Moore, William P.; and Mac Gregor, Rob Roy, to Allied Chemical Corporation. Process for the production of phosphoric acid and cement material. 3,441,375, 4-29-69, Cl. 23-110.
Moore, William P.; and MacGregor, Rob Roy, to Allied Chemical Corporation. Process for the production of phosphoric acid and calcium aluminate. 3,482,933, 12-9-69, Cl. 23-52.
Moore, William P.; Sierichs, William C.; and Mac Gregor, Rob Roy, to Allied Chemical Corporation. Production of hydrogen chloride and magnesium oxide. 3,447,901, 6-3-69, Cl. 23-155.
Moore, William, 33 1/3% interest to Mahoney, Thomas P. Model water racing toy. 3,447,258, 6-3-69, Cl. 46-243.
Moore-IEM, Inc.: *See—*
Lunden, Sidney L., 3,437,215.
Moorefield, Carlton Swain. Tramsmission line tampering alarm system. 3,466,643, 9-9-69, Cl. 340-253.
Moorehead, John P.: *See—*
Matyas, Tibor; and Moorehead, John P.,3,476,041.
Mooreland, Ronald R.: *See—*
Hursh, Neal W.; and Mooreland, Ronald R.,3,479,566.
Moores, Robert G., Jr., to Black and Decker Manufacturing Company, The. Bit retainer for impact tools. 3,454,284, 7-8-69, Cl. 279-19.1
Moorganov, Boris Petrovich. Apparatus for controlling operation of turbogenerator under emergency conditions in the power system. 3,421,014, 1-7-69, Cl. 290-40.
Moorhead, John G., to United States of America, Army. Electrostatic integrator. 3,443,225, 5-6-69, Cl. 324-76.
Moorhead, William H., Jr.; and Copeland, Henry W., Jr., to Kershaw Manufacturing Co., Inc. Railroad setoff apparatus. 3,443,529, 5-13-69, Cl. 105-177.
Moori, Takehiro: *See—*
Hirai, Toshio; Moori, Takehiro; and Masago, Hiroshi,3,440,834.
Moorman, Cletus L., to General Motors Corporation. Grid and handle with interconnected pin and slot actuator. 3,477,681, 11-11-69, Cl. 249-72.
Moorman Manufacturing Company: *See—*
Hutchinson, Harold D., 3,428,457.
Moose, Louis F.; and Omori, Masahiro, to Bell Telephone Laboratories, Incorporated. Integrated microwave circulator and filter. 3,448,409, 6-3-69, Cl. 333-1.1
Mooser, Emanuel; and Brebner, John Low, to American Cyanamid Company. Electroluminescent from cooled, homogeneous gallium sulphide crystal. 3,443,141, 5-6-69, Cl. 313-108.
Moosmueller, Fritz: *See—*
Wieden, Horst; Lenz, Hans; Moosmueller, Fritz; and Koehler, Armin,3,481,905.
Wieden, Horst; Romatowski, Johannes; Moosmueller, Fritz; and Lenz, Hans,3,485,800.
Moosmuller, Fritz: *See—*
Oertel, Harald; Rinke, Heinrich; Moosmuller, Fritz; and Rosendahl, Friedrich-Karl,3,461,102.
Moppett, Richard Edwin. Grinding apparatus for forming cabochon shaped bodies. 3,420,005, 1-7-69, Cl. 51-121.
Morabito, Salvatore L.; and Mullaney, Frank W., to Fastener Corporation. Automatic fastener driving apparatus. 3,436,004, 4-1-69, Cl. 227-7.
Moragne, Edward L. Electromagnetic separator. 3,463,319, 8-26-69, Cl. 210-223.
Morain, Clifford F. Pipe bundling machine. 3,439,814, 4-22-69, Cl. 214-8.
Moraine Box Company: *See—*
Munroe, Thomas, 3,442,412.
Moraine Products: *See—*
Rider, Joseph Alfred, 3,422,189.
Moran, Edward F.; and Reider, Donald P., to Du Pont de Nemours, E. I., and Company. Linear phosphonitriles. 3,467,704, 9-16-69, Cl. 260-551.
Moran, Edwin G.: *See—*
Johnston, Raymond; Moran, Edwin G.; and Clark, Ralph J.,3,477,413.
Moran, Jack K., to Bramlett Manufacturing Corporation. Modular insulated freezer tunnel and construction method. 3,472,570, 10-14-69, Cl. 312-214.
Moran, Robert J.; and Shneider, Harold M., to Honeywell, Inc. Document printer having rigidified frame carrying adjustably-positioned, document-advancing tractors. 3,420,352, 1-7-69, Cl. 197-133.
Morana, Simon J.; and Koshuba, Walter J., to Kawecki Berylco Industries, Inc., mesne. Process of producing beryllium metal powders. 3,460,999, 8-12-69, Cl. 148-6.3
Morando, Jorge A., to Crane Co., d/b/a Hydro-Aire Division. High-speed, self-boosting gear pump. 3,478,694, 11-18-69, Cl. 103-126.

Morando, Jorge A., to Crane Co., d/b/a Hydro-Aire Division. Centrifugal pump with flow control by pressure feedback. 3,482,523, 12-9m69, Cl. 103-97.
Morane, Bruno, to L'Oreal. Container stopper comprising a hollow capsule. 3,439,823, 4-22-69, Cl. 215-6.
Morane, Bruno: *See—*
Pelli, Pierre; and Morane, Bruno,3,443,874.
Morano, Gary E.: *See—*
Auslander, Harry; and Morano, Gary E.,3,423,094.
Morantz, Daniel Joseph, to National Research Development Corporation. Apparatus for producing stimulated emission of radiation. 3,432,766, 3-11-69, Cl. 331-94.5
Morat, Franz: *See—*
Ribler, Erich Mathias, 3,472,287.
Morat, Franz, G.m.b.H.: *See—*
Schmidt, Richard; and Stock, Hans-Joachim, 3,449,928.
Moratis, Christy J.: *See—*
Carlson, William G.; Moratis, Christy J.; and English, William A.,3,457,052.
Moraw, Roland: *See—*
Hackmann, Ernst-August; Munder, Johannes; and Moraw, Roland,3,446,621.
Morawetz, Frederick, to Sunbeam Corporation. Flow restrictor for lawn sprinkler. 3,423,024, 1-21-69, Cl. 239-242.
Morawski, Janusz. Plastic moulded building member. 3,438,165, 4-15-69, Cl. 52-309.
Morbark Debarker Company: *See—*
Morey, Norval K.; and Morey, Harry D., 3,451,450.
Morch, Ernst Trier. Tracheostomy tube construction. 3,461,877, 8-19-69, Cl. 128-351.
Morck, Charles W., Jr., to Selas Corporation of America. Industrial burner. 3,438,718, 4-15-69, Cl. 431-158.
Morck, Roland A.: *See—*
Fast, Robert B.; Spotts, Clyde E.; and Morck, Roland A.,3,451,822.
Mordchelles-Regnier, Georges; Naudin, Paul Marcel; and Micheau, Pierre Gabriel, to Bertin & Cie. Thermal insulation for walls. 3,462,905, 8-26-69, Cl. 52-404.
Morden, Brian Ronald: *See—*
Neale, Noel William Thomas; and Morden, Brian Ronald,3,452,255.
Morden Machines Company: *See—*
Kirkwood, Robert B., 3,438,351.
More, Philip J., to General Electric Company. Electric cooking appliance with adjustable controls housing. 3,422,812, 1-21-69, Cl. 126-211.
More, Philip J., to General Electric Company. Accessory trim for kitchen range. 3,446,201, 5-27-69, Cl. 126-39.
Moreau, Jerry P.: *See—*
Holmes, Raiford L.; Moreau, Jerry P.; and Novak, Arthur F.,3,427,333.
Moreci, Joseph G. T.V. toy magnavision. 3,462,873, 8-26-69, Cl. 46-13.
Morehart, Ronald Charles: *See—*
Lynch, James Edward; Erline, Dexter Wyman; and Morehart, Ronald Charles,3,444,504.
Morehead, Chalmers, to Westinghouse Electric Corporation. Fluorescent lamp having an integral mercury-vapor pressure control assembly with amalgam- forming metal and amalgam stabilizing means. 3,422,299, 1-14-69, Cl. 313-174.
Morehouse, Edward Lewis, to Union Carbide Corporation. N, N-disubstituted aminoalkoxyalkylsilicon compounds and derivatives thereof. 3,471,541, 10-7-69, Cl. 260-438.1
Morcines, Harold, to Bendix Corporation, The. Method of controlling a direct current motor. 3,465,229, 9-2-69, Cl. 318-341.
Morcines, Harold, to Bendix Corporation, The. Crossvoter monitor system. 3,467,956, 9-16-69, Cl. 340-248.
Morcines, Harold, to Bendix Corporation, The. Redundant integrator systems. 3,475,743, 10-28-69, Cl. 340-213.
Morcines, Harold; and Gessner, Gunter Jerry, to Bendix Corporation, The. Redundant pulse monitoring network. 3,473,151, 10-14-69, Cl. 340-167.
Morcines, Harold: *See—*
James, Robert L.; and Morcines, Harold,3,436,635.
Morel, Charles J.: *See—*
Arnold, Winfried; and Morel, Charles J.,3,484,527.
Morel, Harold Louis: *See—*
Turner, Frederick James Leslie; Soper, Arthur John Compton; and Morel, Harold Louis,3,450,321.
Morel, Jean: *See—*
Delaval, Jean Claude; Guinet, Paul Alfred Eugene; and Morel, Jean,3,439,013.
Morel, Paul; Givry, Jean-Pierre; and Scalliet, Robert, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Means for preventing deformation and raising of baths for igneous electrolysis. 3,421,995, 1-14-69, Cl. 204-244.
Morel, Philippe H., to United States of America, Navy. Field effect transistor in an integrated circuit having an embedded grid. 3,430,114, 2-25-69, Cl. 317-235.
Morel, Philippe H.: *See—*
Teszner, Stanislas; Durand, Paul; Morel, Philippe H.; and Briere, Pierre E.,3,482,151.
Morel, Roger. Method and apparatus for production of carbon-black. 3,438,732, 4-15-69, Cl. 23-209.4
Moreland, Floyd E. Method and apparatus for transferring personnel between submerged bodies. 3,452,696, 7-1-69, Cl. 114-16.8
Moreland, Stephen T.; and Kazmierczak, Walter S., to Scherer, R. P., Corporation. Rotating tourniquet system. 3,465,749, 9-9-69, Cl. 128-24.
Moreland, William R.; and Phillips, Alonzo W., to McDonnell Douglas Corporation, mesne. Sonic ray tracer. 3,428,795, 2-18-69, Cl. 235-184.
Morelli, Dominick J. Football shoe cleat and arch construction. 3,444,630, 5-20-69, Cl. 36-2.5
Morelli, Frank A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,433,662.
Morelli, Joseph L., to Litton Business Systems, Inc. Ribbon spool. 3,432,021, 3-11-69, Cl. 197-151.
Morello, Edwin F.: *See—*
Harris, Samuel W.; Morello, Edwin F.; and Peters, Gavin H.,3,459,494.
Morelock, Charles R., to General Electric Company. Process for producing boron filament. 3,479,205, 11-18-69, Cl. 117-46.
Moren, Rolf Erhard; and Hammar, Stig E. H., to Mo Och Domsjo Aktiebolag. Process for the preparation of reconstituted tobacco in sheet form and product obtained thereby. 3,424,169, 1-28-69, Cl. 131-17.
Moreno, Joe. Distress signalling device for submarine and aircraft. 3,432,755, 3-11-69, Cl. 325-112.
Moreno, John S. Grease packer for automobile front wheel bearing. 3,469,655, 9-30-69, Cl. 184-1.
Moresi, Franco, to Paillard S.A. Electric motor incorporating a permanent magnet. 3,475,632, 10-28-69, Cl. 310-67.
Moret, Michel A.; Fresard, Marcel; and Lagier, Jean-Claude, to Squibb, E. R., & Sons, Inc., mesne. Oscillating electric motor. 3,471,725, 10-7-69, Cl. 310-36.
Moreton, Albert James: *See—*
May, Gordon Cyril; and Moreton, Albert James,3,453,825.
Moreton, Douglas Arthur, to Cooke, Alf Limited. Containers. 3,438,564, 4-15-69, Cl. 229-16.
Moretrench Corporation: *See—*
Moore, Edward J., 3,431,708.
Moore, Edward J., 3,432,992.
Moretti, Giuseppe. Showerbath system applicable both in bathrooms and outdoors, with basin provided with seats for protective, rigid and watertight walls. 3,462,771, 8-26-69, Cl. 4-146.
Morey, Glen H., to Templeton Coal Company. Apparatus for making heating element. 3,424,362, 1-28-69, Cl. 228-5.
Morey, Glen H., to Templeton Coal Comany. Method of making a safety shield for electric heating mantle. 3,424,637, 1-28-69, Cl. 156-242.
Morey, Glen H., to Templeton Coal Company. Method for making electric resistance heaters. 3,425,864, 2-4-69, Cl. 117-215.
Morey, Glen H., to Templeton Coal Company. Microflask heating device. 3,430,032, 2-25-69, Cl. 219-433.
Morey, Glen H., to Templeton Coal Company. Waterproofed electric resistance heating mantle. 3,484,585, 12-16-69, Cl. 219-535.
Morey, Harry D.: *See—*
Morey, Norval K.; and Morey, Harry D.,3,451,450.
Morey, Norval K.; and Morey, Harry D., to Morbark Debarker Company. Method and apparatus for debarking and peeling logs or the like. 3,451,450, 6-24-69, Cl. 144-311.
Morey, Thomas H.; and Pope, Karl D. Surfboard with removable skeg. 3,422,471, 1-21-69, Cl. 9-310.
Morey, Woodruff A.; Molt, Richard P.; Ames, Victor H.; and Dolin, Edward T., to Whiting Corporation. Article handling apparatus. 3,447,697, 6-3-69, Cl. 214-8.5
Morfopoulos, Vassilis C. P. Use of inhomogeneous electrical fields in processes influenced by electrical fields. 3,447,049, 5-27-69, Cl. 317-262.
Morgan Adhesives Company: *See—*
Morgan, Burton D., 3,442,041.
Morgan, Burton D., 3,459,626.
Morgan, Alonzo W., Jr.; and Selmeczi, Joseph G., to Ionics Incorporated, mesne. Rinsing machine-washed dishes. 3,476,600, 11-4-69, Cl. 134-10.
Morgan, Arthur A.: *See—*
Reynolds, Donald S.; Krueger, Harvey R.; and Morgan, Arthur A.,3,443,508.
Morgan, Arthur H., to University of Tennessee Research Corporation, The. Okra orienter and trimmer. 3,463,212, 8-26-69, Cl. 146-81.
Morgan, Arthur H., to University of Tennessee Research Corporation, The. Vegetable and fruit harvester. 3,473,304, 10-21-69, Cl. 56-19.
Morgan, Arthur I., Jr.: *See—*
Graham, Robert P.; Hart, Marcus R.; and Morgan, Arthur I., Jr.,3,450,540.

Morgan, Bert M.: *See—*
Phelps, Charles W.; Morgan, Bert M.; and Buck, Ronald F.,3,436,626.
Morgan, Burton D. Safety headlight. 3,441,729, 4-29-69, Cl. 240-7.1
Morgan, Burton D., to Morgan Adhesives Company. Plastic photo mount. 3,442,041, 5-6-69, Cl. 40-158.
Morgan, Burton D. Electric towel assembly. 3,443,067, 5-6-69, Cl. 219-529.
Morgan, Burton D., to Morgan Adhesives Company. Label carrier and release laminate. 3,459,626, 8-5-69, Cl. 161-146.
Morgan, Burton D. Method for removing hairs from skin. 3,470,877, 10-7-69, Cl. 128-355.
Morgan, Carl K.: *See—*
Morgan, Melvin C.; and Morgan, Carl K.,3,428,331.
Morgan, Charles R.: *See—*
Godfrey, John J.; Sykes, James A.; Harper, James L.; and Morgan, Charles R.,3,463,811.
Morgan, Charles R.; and Godfrey, John J., to Grace, W. R., & Co. Production of aminonitriles under adiabatic conditions. 3,463,805, 8-26-69, Cl. 260-465.5
Morgan Construction Company: *See—*
Alexander, Frank A., Jr., 3,451,664.
Hill, William J., 3,462,004.
Mathieu, Edmond N.; and Wynn, William R., 3,457,757.
Morgan, Myles, 3,463,297.
Rickley, Samuel S.; and Bjork, John A., 3,453,031.
Sicurin, Donald; and Hill, William J., 3,429,167.
Woodrow, Harold E.; and Hill, William J., 3,439,882.
Morgan, David A.; and Shely, Benjamin L, to Minnesota Mining and Manufacturing Company. Sensitized sheet containing an organic silver salt, a reducing agent and a catalytic proportion of silver halide. 3,457,075, 7-22-69, Cl. 96-67.
Morgan, Dean W.; Kiernan, John P.; and Bergman, Robert J., to Sperry Rand Corporation. Mated-film memory element incorporating E-keepers forming a closed transverse interrogate flux path. 3,470,548, 9-30-69, Cl. 340-174.
Morgan, Derek H.: *See—*
Austin, William C.; Conover, Lloyd H.; McFarland, James W.; and Morgan, Derek H.,3,458,633.
Morgan, Emil. Pipe filter. 3,435,830, 4-1-69, Cl. 131-205.
Morgan Engineering Company: *See—*
Auzins, Raimunds; and Yendrich, Stephen P., Jr., 3,467,263.
Morgan, Frank; and Walden, Alan Frank, to Procter & Gamble Company, The. Liquid cleaner composition. 3,453,144, 7-1-69, Cl. 134-26.
Morgan, George H.; and Langner, Ralph R., to Dow Chemical Company, The. Dimensionally stable wood. 3,483,021, 12-9-69, Cl. 117-118.
Morgan, Gerard E., to Riddell, Inc. Construction for absorbing energy. 3,487,417, 12-30-69, Cl. 2-3.
Morgan, Grant Thomas, to Consolidated Electrodynamics Corporation. Logarithmic galvanometer having shifted zero signal position. 3,439,274, 4-15-69, Cl. 324-132.
Morgan, Harvey G., to United States of America, Army. Variable centroid projectile. 3,485,173, 12-23-69, Cl. 102-92.2
Morgan, Henry Z. Containers that are compactly nestable when empty and stackable in spaced relation when full. 3,480,178, 11-25-69, Cl. 220-97.
Morgan, Herbert S., Jr.; and Setzer, Carl J., Jr., to Monsanto Company. Modified polyesters having improved dyelightfastness. 3,461,468, 8-19-69, Cl. 8-165.
Morgan, Hugh M.: *See—*
Allingham, Walter F.; and Morgan, Hugh M.,3,461,912.
Morgan, Huw C.; and Sterritt, Lanny W., to United Aircraft Corporation. Range measuring scanning laser imaging system. 3,443,870, 5-13-69, Cl. 356-5.
Morgan, Jerry E.: *See—*
Barrett, Robert D.; Ziskal, Joseph F.; and Morgan, Jerry E.,3,474,623.
Morgan, Jerry E., to International Harvester Company. Uniform response tiltable steering arrangement. 3,424,473, 1-28-69, Cl. 280-87.
Morgan, John F., to Cartem Engineering Limited. Refuse receptacles. 3,451,582, 6-24-69, Cl. 220-7.
Morgan, John Guy David, to Blaw Knox Limited. Forming concrete articles. 3,452,406, 7-1-69, Cl. 25-11.
Morgan, John Henry: *See—*
Dickinson, George Alfred; Morgan, John Henry; Thomas, James Edward Celfyn; and Oxley, Brian William,3,433,612.
Morgan, John M., Jr., to Cincinnati Milling Machine Co., The. Process efficiency detecting circuit for electrical discharge machining apparatus. 3,474,216, 10-21-69, Cl. 219-69.
Morgan, John M., Jr., to General Dynamics Corporation. Process efficiency detecting circuit for electrical discharge machining apparatus. 3,482,035, 12-2-69, Cl. 219-69.
Morgan, John R.: *See—*
Burbridge, William P.; Morgan, John R.; and Schmitt, Thomas S.,3,467,104.
Morgan, John W.: *See—*
Jepson, Ivar; Morgan, John W.; and Richmond, James W.,3,429,118.
Morgan, Justin W. Method for setting hair. 3,482,582, 12-9-69, Cl. 132-7.
Morgan, Lemuel J., to Patterson-Kelley Co., Inc., The. Hingedly mounted electric water heater. 3,446,938, 5-27-69, Cl. 219-316.
Morgan, Lemuel J., to Patterson-Kelley Co., Inc., The. Hingedly mounted electric water heater. 3,446,940, 5-27-69, Cl. 219-318.
Morgan, Lemuel J., to Patterson-Kelley Co., Inc., The. Water heating system. 3,484,580, 12-16-69, Cl. 219-314.
Morgan, Lemuel J.; and Lowe, Leonard F., to Patterson-Kelley Co., Inc., The. Electric immersion water heater. 3,446,939, 5-27-69, Cl. 219-316.
Morgan, Loran B. Calculator means for fitting contact lenses. 3,439,979, 4-22-69, Cl. 351-6.
Morgan, Marcus S.; and Simon, Albert W., to United States Steel Corporation. Process for making anthraquinone. 3,441,574, 4-29-69, Cl. 260-369.
Morgan, Melvin C.; and Morgan, Carl K. Binder construction for a loaded mobile bed. 3,428,331, 2-18-69, Cl. 280-179.
Morgan, Myles, to Morgan Construction Company. Skew assembly table. 3,463,297, 8-26-69, Cl. 198-127.
Morgan, Neil A.: *See—*
Rogers, Lucious E., Jr., 3,429,472.
Morgan, Paul E., to USM Corporation. Sole attaching with thermoplastic resin adhesive. 3,483,582, 12-16-69, Cl. 12-142.
Morgan, Paul E.: *See—*
Herdeg, Donald F.; and Morgan, Paul E.,3,430,949.
Morgan, Raymond E., to General Electric Company. Solid state power circuits. 3,432,740, 3-11-69, Cl. 321-43.
Morgan, Raymond E., to General Electric Company. Commutation scheme for power semiconductor circuits for limiting rate of reapplied voltage and current. 3,461,317, 8-12-69, Cl. 307-252.
Morgan, Raymond Evan, to General Electric Company. Time ratio control and inverter power circuits. 3,487,234, 12-30-69, Cl. 307-252.
Morgan Refractories Limited: *See—*
Ash, Malcolm Donald, 3,480,125.
Barker, John S., 3,451,661.
Morgan, Rose M.: *See—*
Good, Dorothy I.; and Morgan, Rose M.,3,480,504.
Morgan, Royston P.: *See—*
Kupsis, Visvaldis; and Morgan, Royston P.,3,433,720.
Morgan, Stanley E.: *See—*
Bailey, Francis T.; and Morgan, Stanley E.,3,429,016.
Morgan, Thomas J.; Pearl, Blaine H.; and Pearson, Gilbert D., to Union Metal Manufacturing Company, The. Vibration damping construction for long pole arms. 3,454,252, 7-8-69, Cl. 248-358.
Morgan, Thomas M. Compound work tool. 3,434,321, 3-25-69, Cl. 72-83.
Morgan, Vic: *See—*
Lott, Chancy M., 3,440,781.
Morgan, Vic, Associates: *See—*
Lott, Chancy M., 3,440,781.
Morgan, Willard L.: *See—*
Bolinger, Edgar Dare; and Morgan, Willard L.,3,475,114.
Morgan, William C.: *See—*
Anderson, Norman L.; Darnall, Millard K.; Morgan, William C.; Peterson, Laurel L.; and Stedman, Robert N.,3,478,902.
Morgan, William C. Variable size periodical storage box. 3,455,462, 7-15-69, Cl. 211-43.
Morgan, William E.: *See—*
Thompson, Harry B.; and Morgan, William E.,3,435,502.
Morgan, William J.: *See—*
Mackey, Robert W.; and Morgan, William J.,3,437,504.
Morgan, William R., Jr. Lock for locking window sashes and the like. 3,433,516, 3-18-69, Cl. 292-62.
Morgana, Morley: *See—*
Ellerbrook, Harry L.; and Morgana, Morley,3,429,924.
Morganite Carbon Limited: *See—*
Hobbs, Leonard James, 3,421,604.
Morganite Incorporated: *See—*
Rokaw, Sheldon A.; and King, David J., 3,445,704.
Morgardshammar Aktiebolag: *See—*
Polhall, Karl Olof Adolf; Hermansson, Rolf Torsten; and Olsson, Roy Erik Tore, 3,443,400.
Morgardshammars Mek, Verkstads Aktiebolag: *See—*
Forsberg, Karl Sten Olof, 3,422,654.
Morgenbesser, Wilhelm: *See—*
Wollmann, Ernest; and Morgenbesser, Wilhelm,3,426,443.
Morgenson, Edgar O., Jr.: *See—*
Keiter, Irvin L.; Sichel, Leonard H., Jr.; Morgenson, Edgar O., Jr.; and Questa, Charles R.,3,461,432.
Morgenstern, Karl: *See—*
Schwarz, Hans Helmut; Morgenstern, Karl; Schneider, Joachim; and Schnell, Hermann,3,423,460.
Schwarz, Hans-Helmut; and Morgenstern, Karl,3,485,866.
Morgenthaler, Lawrence Philip: *See—*
Menichelli, Robert Paul; and Morgenthaler, Lawrence Philip,3,438,871.
Morgese, Nicholas V., to Continental Can Company, Inc. Keel type carton. 3,472,370, 10-14-69, Cl. 206-65.

Morgret, Gordon L.: *See—*
Beecher, David W.; and Morgret, Gordon L.,3,487,387.
Mori, Atsuo: *See—*
Okazaki, Masao; Mori, Atsuo; Toda, Namihiro; and Hara, Isao,3,487,128.
Mori, Ernest A., to Gulf Research & Development Company. Rotating ditch and method. 3,472,324, 10-14-69, Cl. 175-66.
Mori, Ernest A.; and Schaub, Paul W., to Gulf Research & Development Company. Continuous coring jet bit. 3,424,255, 1-28-69, Cl. 175-60.
Mori, Ernest A.: *See—*
Goodwin, Robert J.; Mori, Ernest A.; Pekarek, Joseph L.; Schaub, Paul W.; and Zinkham, Robert E.,3,467,211.
Mori, Hideo, to Abex Corporation. Object identification systems. 3,443,072, 5-6-69, Cl. 235-61.11
Mori, Hideo, to Abex Corporation. Vehicle counter and identification apparatus. 3,486,008, 12-23-69, Cl. 235-92.
Mori, Hideo: *See—*
Shibata, Shinichi; Mori, Hideo; and Owada, Atsushi,3,432,732.
Mori, Hiroshi. Measuring device of load capacity of the earth layer. 3,481,188, 12-2-69, Cl. 73-84.
Mori, Kan; Kawakami, Masato; Sugihara, Yasumi; Kimura, Shoji; Shibata, Tooru; and Kogure, Akira, to Japan Synthetic Rubber Co., Ltd. Process for the preparation of polyisoprene utilizing a titanium tetrahalide and the reactor product of an aluminum alkyl and a cyanogen halide. 3,466,272, 9-9-69, Cl. 260-94.3
Mori, Kan; Suminoe, Taro; Yamazaki, Tamotu; Ishikawa, Tunezo; and Kogure, Akira, to Japan Synthetic Rubber Co., Ltd. Catalytic process for preparing a high molecular weight cis-1,4-polyisoprene. 3,479,331, 11-18-69, Cl. 260-94.3
Mori, Kantaro, to Mori Seikoku Kenkyusho Company Limited. Rice-cleaning machine. 3,435,865, 4-1-69, Cl. 146-279.
Mori, Kenji: *See—*
Shimose, Takaaki; Mori, Kenji; Inoue, Kimio; and Takao, Zenichiro,3,428,472.
Mori, Kunihito: *See—*
Nozaki, Toshio; Mori, Kunihito; Ushirokajitani, Yoshiyuki; and Okamoto, Kenya,3,485,370.
Mori, Kyoichiro: *See—*
Ishida, Shinichi; Sato, Kunio; Fujita, Norimasa; Fukuda, Hiromichi; Mori, Kyoichiro; and Kugler, Fritz,3,470,135.
Mori, Miyako: *See—*
Shindo, Noboru; Ura, Yasukazu; Mori, Miyako; Hayakawa, Mitsuru; and Ueda, Kunihiro,3,443,011.
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako,3,472,932.
Mori, Ryoichi, to Nikko Denki Kogyo Kabushiki Kaisha. Device for cleaning the electrode section of an ignition plug. 3,435,561, 4-1-69, Cl. 51-8.
Mori, Ryutaro: *See—*
Honda, Juichi; Matsumura, Kimio; Yoshida, Sadao; and Mori, Ryutaro,3,428,407.
Mori Seikoku Kenkyusho Company Limited: *See—*
Mori, Kantaro, 3,435,865.
Mori, Shigeru: *See—*
Sando, Yoshikazu; and Mori, Shigeru,3,481,684.
Mori, Tadamichi; and Tanabe, Koji, to Citizen Tokei Kabushiki Kaisha. Automatic exposure flash camera. 3,422,738, 1-21-69, Cl. 95-10.
Mori, Tadamichi; and Tanabe, Koji, to Citizen Tokei Kabushiki Kaisha. Automatic camera shutter timing system. 3,474,713, 10-28-69, Cl. 95-10.
Mori, Tadamichi; Yanagawa, Yoshihiko; and Suzuki, Naomichi, to Citizen Tokei Kabushiki Kaisha. Automatic exposure camera. 3,481,258, 12-2-69, Cl. 95-10.
Mori, Tadamichi: *See—*
Yoshida, Masateru; and Mori, Tadamichi,3,429,242.
Mori, Takashi: *See—*
Nozaki, Hitosi; Noyori, Ryoji; and Mori, Takashi,3,465,040.
Mori, Tatsujiro: *See—*
Kosaka, Kenzo; Tsunewaki, Masami; Yonekura, Nobuaki; Okaya, Tsutomu; Mimatsu, Ken; and Mori, Tatsujiro,3,446,005.
Mori, Tokio: *See—*
Oda, Zenjiro; Saito, Koichi; Asamaki, Tatsuo; and Mori, Tokio,3,436,332.
Mori, Yoichi, to Nissan Jidosha Kabushiki Kaisha. Automatic speed change gear. 3,482,469, 12-9-69, Cl. 74-688.
Mori, Yoichi: *See—*
Ohno, Kazuhiko; and Mori, Yoichi,3,446,094.
Ohno, Kazuhiko; and Mori, Yoichi,3,455,185.
Moriarity, Merton Thomas. Silo construction. 3,486,282, 12-30-69, Cl. 52-234.
Moriarty, Edward J. Bag opening and emptying machine. 3,447,706, 6-3-69, Cl. 214-305.
Moriarty, Edward J. Bag opening and emptying machine. 3,482,718, 12-9-69, Cl. 214-305.
Moriarty, Jerome J., to Eastman Kodak Company. Method of coating using a bead coater. 3,429,741, 2-25-69, Cl. 117-111.
Moriarty, Jerome J., to Eastman Kodak Company. Coating process. 3,473,955, 10-21-69, Cl. 117-111.
Morici, Emanuele A.; and Zimatore, Carmelo. Automatic tuner control devices. 3,467,871, 9-16-69, Cl. 325-470.
Moriconi, Joseph H.: *See—*
Jacknow, Burton B.; and Moriconi, Joseph H.,3,467,634.
Moriga, Hiroyuki: *See—*
Oda, Ryohei; Fujii, Hiroshi; and Moriga, Hiroyuki,3,431,282.
Moriguchi, Eijiro: *See—*
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,492.
Morijn, Rudolf Eduard: *See—*
Siekman, Jakob Gerard; and Morijn, Rudolf Eduard,3,473,000.
Morikawa, Hiroyuki: *See—*
Furukawa, Junji; Morikawa, Hiroyuki; and Yamamoto, Ryuzo,3,476,820.
Morikawa, Masanobu: *See—*
Tsuji, Jiro; Kiji, Jitsuo; Morikawa, Masanobu; and Imamura, Shinzo,3,427,344.
Morikawa, Sumio: *See—*
Koyanagi, Shiniti; and Morikawa, Sumio,3,454,999.
Morimatsu, Yasuo: *See—*
Ogata, Kazuo; Kazama, Kiyoshi; Suzuki, Shozo; and Morimatsu, Yasuo,3,442,868.
Morimitsu, Kazuyoshi: *See—*
Ochiai, Shigeru; and Morimitsu, Kazuyoshi,3,475,654.
Morimoto, Ikuhisa: *See—*
Yamada, Kiyoshi; Takeuchi, Rikio; Morimoto, Ikuhisa; and Asano, Tatsuro,3,469,051.
Morimoto, Kazuhisa: *See—*
Inami, Akira; Morimoto, Kazuhisa; and Murakami, Yoshinobu,3,421,891.
Inami, Akira; Morimoto, Kazuhisa; and Ishida, Eisuke,3,464,819.
Morimoto, Tatsuo. Apparatus for draining deep underground strata. 3,451,348, 6-24-69, Cl. 103-179.
Morimoto, Toshio; and Fukunaga, Yoshiaki, to Matsushita Electric Industrial Co., Ltd. Automatic reciprocating magnetic tape recording and reproducing apparatus. 3,472,464, 10-14-69, Cl. 242-55.12
Morimura, Shyoji: *See—*
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide,3,437,633.
Morimura, Syoji: *See—*
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,436,369.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,233.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi,3,474,068.
Morin, Erik Pavlovich: *See—*
Zilberman, Evgeny Konstantinovich; and Morin, Erik Pavlovich,3,452,322.
Morin, Gilles. Mosaic-like arrangement. 3,420,527, 1-7-69, Cl. 273-157.
Morin, Joseph C., to Cupples Container Company. Drive mechanism. 3,469,459, 9-30-69, Cl. 74-37.
Morin, Joseph C., to Cupples Container Company. Thermoforming apparatus. 3,473,195, 10-21-69, Cl. 18-19.
Morin, Joseph F., to Carter, William, Company, The. Machine for attaching labels and similar articles. 3,482,537, 12-9-69, Cl. 112-104.
Morin, Louis H., to Coats & Clark, Inc. Method of anchoring a monofilament to a plastic injection molding. 3,420,929, 1-7-69, Cl. 264-278.
Morin, Louis H., to Coats & Clark Inc. Apparatus for feeding inserts from magazine to molding ma0chine. 3,423,792, 1-28-69, Cl. 18-5.
Morin, Louis H., to Coats & Clark, Inc. Box and pin separator for fastener stringers. 3,435,489, 4-1-69, Cl. 24-205.11
Morin, Louis H., to Coats & Clark Inc. Apparatus for making magnesium die castings. 3,452,805, 7-1-69, Cl. 164-154.
Morin, Robert B.; and Jackson, Billy G., to Lilly, Eli, and Company. Modified penicillins and their preparation via penicillin sulfoxides. 3,466,275, 9-9-69, Cl. 260-239.1
Morin, Robert B.: *See—*
Gorman, Marvin; and Morin, Robert B.,3,459,853.
Morinaga Confectionery Co., Ltd.: *See—*
Ohashi, Tamotsu; Masuda, Kotaro; Imai, Masatake; and Morishima, Takeshi, 3,459,557.
Morinaga Confectionery Company Ltd.: *See—*
Sato, Fumio, 3,426,706.

Morine, Louis A., to Bendix Corporation, The. Method and electronic system for improving a control signal-to-noise ratio in high noise environment electronic systems. 3,432,761, 3-11-69, Cl. 328-165.
Morine, Richard L., to Food Equipment Development Corporation. Conveyor. 3,474,893, 10-28-69, Cl. 198-129.
Morini, Emilio, to Societa Applicazioni Gomma Antivibranti SAGA S.p.A. Wharf with a shock-absorbing device. 3,459,004, 8-5-69, Cl. 61-48.
Morini, Marcello: *See—*
Dakli, Ibrahim; Lupi, Nazareno; and Morini, Marcello,3,423,467.
Morino, Jiro: *See—*
Ito, Yoshikazu; Wakamatsu, Shigeru; Hara, Yoichiro; and Morino, Jiro,3,479,264.
Morino, Ronald: *See—*
Weiss, Bert; and Morino, Ronald,3,481,033.
Morio, Minoru: *See—*
Kanaoka, Takao; Morio, Minoru; and Yoneda, Hajime,3,484,648.
Tetsuo, Tokita; Morio, Minoru; and Tobari, Masakatsu,3,462,638.
Tokita, Tetsuo; Morio, Minoru; and Asano, Ryozo,3,452,240.
Morisawa, Nobuo. Photo typesetting machines. 3,486,429, 12-30-69, Cl. 95-4.5
Morisawa, Yasuhiro: *See—*
Tanabe, Katsumi; Hayashi, Ryozo; Morisawa, Yasuhiro; Hashimoto, Teruo; Nakazawa, Tadamasa; and Takasaki, Rinji,3,485,848.
Morishima, Takeshi: *See—*
Ohashi, Tamotsu; Masuda, Kotaro; Imai, Masatake; and Morishima, Takeshi,3,459,557.
Morishita, Zenji; and Kawata, Shojiro. Rock drill. 3,448,817, 6-10-69, Cl. 173-119.
Morison, Ayers, to Miles Laboratories, Inc. Indicating device. 3,420,205, 1-7-69, Cl. 116-114.
Morison, Charles R. W., to Union Carbide Corporation. Gelatinizable aqueous solutions of poly(ethylene oxide) resin as sizing for textile fibers. 3,450,658, 6-17-69, Cl. 260-29.2
Morison, David G.: *See—*
Millwood, William H.; and Morison, David G.,3,451,309.
Morissette, Bertrand G.: *See—*
Hellmuth, Walter W.; Kivelevich, Doris; Dadura, James G.; and Morissette, Bertrand G.,3,480,548.
Morita, Akiyoshi: *See—*
Inoue, Yuzuru; and Morita, Akiyoshi,3,441,687.
Morita, Eiichi: *See—*
Leib, Robert I.; and Morita, Eiichi,3,426,003.
Morita, Hideo: *See—*
Tamura, Ryoji; and Morita, Hideo,3,457,521.
Morita, Hiroshi; Fuse, Motoyosi; Iwasaki, Sadaya; Yamagishi, Hisato; Kawaguchi, Syojiro; and Tanigawa, Koichiro, to Matsushita Denko Kabushiki Kaisha. Starting device for discharge lamp. 3,476,976, 11-4-69, Cl. 315-101.
Morita, James M.: *See—*
Teshima, Minoru, 3,482,268.
Morita, Katsura: *See—*
Hashimoto, Naoto; and Morita, Katsura,3,441,593.
Morita, Masasuke; and Miyagi, Masahisa, to Nippon Electric Company Limited. Frequency allocation system for common amplification of multifrequency carriers. 3,480,733, 11-25-69, Cl. 179-15.
Morita, Motoo. Method of automatically producing leaf springs having an eye at both ends thereof and automatic eye forming machine. 3,453,855, 7-8-69, Cl. 72-296.
Morita, Shigeru; Inoue, Toshio; Eto, Hiromi; and Yoshimitsu, Kenichi, to Yawata Chemical Industry Co., Ltd. Process for the purification of lower olefin gases. 3,456,029, 7-15-69, Cl. 260-677.
Morita, Takanobu: *See—*
Akamatsu, Hiroo; Morita, Takanobu; Kamei, Mikio; and Nozoe, Yasuhiro,3,479,518.
Morita, Toshimitsu; Taki, Masuo; Kaneda, Maomi; and Kohno, Sakae, to Hitachi Zosen Kabushiki Kaisha (Hitachi Ship-building & Engineering Co. Ltd.). Plate-bending roll for steel plates and the like. 3,459,020, 8-5-69, Cl. 72-22.
Morita, Tsuneo, to Sony Corporation. Erasing system for magnetic tapes with angularly disposed tracks thereon. 3,478,177, 11-11-69, Cl. 179-100.2
Morita, Yoshio; Watanabe, Takaji; Suzuki, Hisao; and Kawamura, Junji, to Koppers Company, Inc. Nacreous pigment of black pearl tone. 3,459,573, 8-5-69, Cl. 106-291.
Morita, Yutaka: *See—*
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro,3,449,196.
Moritz, Donald B.: *See—*
Kosmach, Fred C.; Mocny, Richard C.; and Moritz, Donald B.,3,420,030.
Moritz, Frederick G.: *See—*
Brown, George C.; and Moritz, Frederick G.,3,433,427.
Brown, George C.; Klang, Daniel M.; and Moritz, Frederick G.,3,471,073.
Moritz, Frederick G., to Potter Instrument Company, Inc. Bidirectional proportional servo motor control system. 3,439,246, 4-15-69, Cl. 318-257.
Moritz, Guenther, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method and arrangement for introducing lubricating material into a stationary chill for continuous casting of metal. 3,451,465, 6-24-69, Cl. 164-268.
Moritz, Guenther, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method for continuous casting of thin band plates. 3,463,220, 8-26-69, Cl. 164-4.
Moritz, Gunther, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method and apparatus for continuous casting of metal in horizontal direction, especially for continuous casting of thin metal bands, plates, or the like. 3,439,730, 4-22-69, Cl. 164-82.
Moritz, John J. Multiple arm articulated toy. 3,464,148, 9-2-69, Cl. 46-43.
Moritz, Karsten Herbert: *See—*
Pine, Lloyd Albert; Moritz, Karsten Herbert; and Ellert, Henry George,3,484,421.
Moritz, Karsten Herbert; Pine, Lloyd Albert; and Ellert, Henry George, to Esso Research and Engineering Company. Two stage hydrogenation process (I). 3,442,877, 5-6-69, Cl. 260-82.
Moritz, Paul: *See—*
Moritz, Victor; and Moritz, Paul,3,480,703.
Moritz, Victor; and Moritz, Paul, deceased0 (by Marechal, Madeleine France Louise; legal representative). Mattresses and paddings. 3,480,703, 11-25-69, Cl. 264-45.
Moritz, Werner; and Ridenhour, Joseph C., to Cannon Mills Company, mesne. Printed pile fabrics and method. 3,468,694, 9-23-69, Cl. 117-37.
Moriuchi, Shigeru, to Japan Atomic Energy Research Institute. Scintillation counter for improving measurement of radiation dose. 3,441,733, 4-29-69, Cl. 250-71.5
Moriwaki, Akira. Combing cylinder of combing machine. 3,419,941, 1-7-69, Cl. 19-234.
Moriya, Shigeru: *See—*
Tajima, Atsushi; and Moriya, Shigeru,3,461,740.
Moriya, Shozaburo, to Shikoku Kasei Kogyo Company Limited. Three-dimensional coloring composition. 3,427,176, 2-11-69, Cl. 106-157.
Moriya, Tsutomu, to NGK Insulators, Ltd. Method of detecting defects in a head portion of a procelain shell of a suspension insulator. 3,479,861, 11-25-69, Cl. 73-37.
Moriya, Yosimaro. Vacuum traps utilizing electronic refrigerating elements. 3,423,947, 1-28-69, Cl. 62-3.
Moriyama, Hiromi; Yamada, Hiroshi; Nakanishi, Tsunemoto; and Kiriyama, Toshikatsu, to Kabushi Kaisha Hitachi Seisakusho, and Keihin Hitachi Engineering Kabushiki Kaisha. Method of making gas-filled enclosed switchgear with copper contacts. 3,443,312, 5-13-69, Cl. 29-622.
Moriyama, Kazuhiro; and Hori, Toshimitsu, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Apparatus automatically controlling the correlation between time and air pressure. 3,429,336, 2-25-69, Cl. 137-487.5
Moriyasu, Hiro, to Tektronix, Inc. Time base generator with automatic rate control. 3,439,282, 4-15-69, Cl. 328-185.
Moriyasu, Hiro, to Tktronix, Inc. Drift compensated direct coupled amplifier circuit having adjustable D.C. output voltage level. 3,441,863, 4-29-69, Cl. 330-9.
Moriyasu, Hiro, to Tektronix, Inc. Monostable comparator circuit. 3,473,044, 10-14-69, Cl. 307-235.
Morizumi, Ichiro; Sato, Yuichiro; and Matsukura, Kiyoshi, to Nisso Seiko Kabushiki Kaisha. Method of manufacturing a cast iron roll. 3,423,250, 1-21-69, Cl. 148-2.
Mork, Alfred N., to Celanese Coatings Company. Decorative coating for hardboard. 3,451,837, 6-24-69, Cl. 117-12.
Mork, Alfred N., to Celanese Coatings Company. Process for applying decorative coating to hardboard. 3,479,197, 11-18-69, Cl. 117-12.
Mork, George W.: *See—*
Grider, Lyle D.; Reuter, Gottfried; and Mork, George W.,3,445,004.
Novotny, Carl F.; and Mork, George W.,3,433,367.
Mork, George W., to Bucyrus-Erie Company. Rocker support for bucket attachment. 3,462,029, 8-19-69, Cl. 214-138.
Mork, George W., to Bucyrus-Erie Company. Backhoe excavator or the like with power actuated side tilting handle. 3,463,336, 8-26-69, Cl. 214-138.
Mork, George W., to Bucyrus-Erie Company. Jib suspension. 3,464,570, 9-2-69, Cl. 212-144.
Mork, George W.; Waldron, Vernon F.; and Walker, Robert C., to Bucyrus-Erie Company. Safety control system for a cable drum. 3,464,528, 9-2-69, Cl. 192-17.
Mork, John W., to Josam Manufacturing Co. Reversible structure for surface drain. 3,420,552, 1-7-69, Cl. 285-42.
Mork, Orlan H. Pallet construction. 3,444,829, 5-20-69, Cl. 108-53.
Morkoski, James: *See—*
Pool, Stuart D.; and Morkoski, James,3,430,583.

Morkoski, James, to International Harvester Company. Flexible mounting for disk harrow gang. 3,442,336, 5-6-69, Cl. 172-572.
Morkoski, James, to International Harvester Company. Toothed bar structure for peg tooth harrow. 3,463,242, 8-26-69, Cl. 172-713.
Scarnato, Thomas J.; Gordon, Paul C.; and Morkoski, James,3,471,167.
Morlen, Jon R., to Barber-Colman Company. Stepping servo in which a first transmitter is advanced and a second feedback transmitter follows. 3,454,855, 7-8-69, Cl. 318-31.
Morley, David C. W., to Hydrotrole Limited. Hydropneumatic accumulator. 3,483,893, 12-16-69, Cl. 138-30.
Morley, Edwin Richard: *See—*
Heinzen, Robert Arthur; and Morley, Edwin Richard,3,475,630.
Morley, Ervin W., 10% to Hammond, Ellane B. Record keeping and viewing device. 3,479,985, 11-25-69, Cl. 116-135.
Morley, Fred W. Continuous hamburger grill. 3,457,853, 7-29-69, Cl. 107-349.
Morley, Henry Barclay; Skrzec, Adam E.; and Shiloff, Jerome C., to Stauffer Chemical Company. Process for producing boric acid from alkali metal borates. 3,454,359, 7-8-69, Cl. 23-149.
Morley, John D., to Newcor, Inc., mesne. Strip positioning and trimming apparatus for a strip end welding machine. 3,475,580, 10-28-69, Cl. 219-82.
Morley, Richard E.: *See—*
Fuller, Harrison W.; McCormack, Thomas Leo; Aghassi, Badri Munir; and Morley, Richard E.,3,436,814.
Morley, Ronald I.: *See—*
Lueck, Laurence B.; and Morley, Ronald I.,3,435,759.
Morlite Equipment Company: *See—*
Spiteri, Joseph, 3,440,415.
Morning, William L.: *See—*
Bement, Lyle W.; Morning, William L.; Benjamin, James E.; South, Richard P.; Thompson, Richard B.; and Anglin, James M.,3,460,032.
Moro, Antonio. Reeling mechanism for sewing machines. 3,426,713, 2-11-69, Cl. 112-218.
Moro, Antonio, to Soc. per Azioni Fratelli Borletti. Basting device for sewing machine. 3,428,009, 2-18-69, Cl. 112-255.
Moro, Antonio, to Soc. per Azioni Fratelli Borletti. Thermally controlled electric switch. 3,453,581, 7-1-69, Cl. 337-349.
Moro, Antonio, to Soc. per Azioni Fratelli Borletti. Sewing machine for straight or zigzag sewing. 3,468,270, 9-23-69, Cl. 112-158.
Moro, Daniel: *See—*
Johnson, David Bruce; Moro, Daniel; and Cristy, Nicholas G.,3,420,187.
Moro, Dominik J., to American Chain & Cable Company, Inc. Lifting tongs. 3,455,593, 7-15-69, Cl. 294-110.
Moroe, Tatsuo: *See—*
Fujita, Koji; Sato, Eisuke; and Moroe, Tatsuo,3,460,950.
Moroe, Tatsuo; Hattori, Satohiko; Komatsu, Akira; Matsui, Takeshi; and Kurihara, Haruki, to Takasago Perfumery Co., Ltd.Process for producing α-tocopherol and its esters. 3,459,773, 8-5-69, Cl. 260-345.5
Moroe, Tatsuo; Hattori, Staohiko; Komatsu, Akira; and Muraki, Shigeru, to Takasago Perfumery Co., Ltd. Method of improving the flavor of cocoa and chocolate-flavored materials. 3,459,556, 8-5-69, Cl. 99-23.
Moroe, Tatsuo; Komatsu, Akira; Matsui, Takeshi; and Ueda, Kuniaki, to Takasago Perfumery Co., Ltd. Process for the production of a mixture of alicyclic hydroxyaldehydes. 3,433,839, 3-18-69, Cl. 260-598.
Moroi, Reimei: *See—*
Okano, Atsuji; Moroi, Reimei; and Naito, Takeo,3,448,144.
Moroli, Frank A.: *See—*
Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A.,3,480,691.
Moroney, John J.: *See—*
Rollins, James W.; and Moroney, John J.,3,424,507.
Moroney, Ronald; Johansen, Paul; and Schwenzer, Heinz. Apparatus for portion package sealing. 3,474,595, 10-28-69, Cl. 53-373.
Moroney, William J.; and Chalifour, Henri R., to Microwave Associates, Inc. Semiconductor diodes of the junction type having a heat sink at the surface nearer to the junction. 3,457,471, 7-22-69, Cl. 317-234.
Moroshima, Heiji, to Hitachi, Ltd. Semiconductor device for high frequency and high power use. 3,444,443, 5-13-69, Cl. 317-235.
Moroto, Shuzo; and Kawabe, Tsuneo, to Aisin Seiki Company Limited. Automatic vehicle stop sensing device. 3,469,443, 9-30-69, Cl. 73-121.
Morozowich, Walter: *See—*
Houtman, Ronald L.; Morozowich, Walter; and Sinkula, Anthony A.,3,479,334.
Morozowich, Walter., to Upjohn Company, The. Steroid esters. 3,475,537, 10-28-69, Cl. 424-243.
Morozowich, Walter; and Lamb, Donald J., to Upjohn Company, The. Lincomycin-2-phosphates, 7-substituted compounds and salts thereof. 3,487,068, 12-30-69, Cl. 260-210.
Morozowich, Walter; and Taraszka, Mildred J., to Upjohn Company, The. Process for preparing lincomycin-2-acylates and novel intermediate compounds. 3,426,012, 2-4-69, Cl. 260-210.
Morrall, Stephen H.: *See—*
Kuhl, Bernhard R.; and Morrall, Stephen H.,3,428,020.
Morran, Troy V.: *See—*
Lewis, Olin S.; and Morran, Troy V.,3,419,990.
Morre Reed (Industrial) Limited: *See—*
Evans, David Silvester, 3,484,781.
Morreale, Anthony P.; and Summers, Zdzislaw R., to IMC Magnetics Corp. Small angle stepping motor with offset permanent magnet rotor having axially located pole shoes. 3,428,837, 2-18-69, Cl. 310-49.
Morrell, Henry P.: *See—*
Chandler, Huel H., Jr.; Morrell, Henry P.; and Sayers, Paul G.,3,459,701.
Morrell, Jacque C. Apparatus and process for treatment of exhaust gases from internal combustion engines and controls for the same. 3,481,144, 12-2-69, Cl. 60-30.
Morrell, John, & Co.: *See—*
Behring, Arthur F., 3,461,557.
Brown, William Lewis; and Schmucker, Morton Lee, 3,477,859.
Prena, William F., 3,444,665.
Prena, William F., 3,483,667.
Morren, Henri, to UCB(Union Chimique-Chemische Bedrijven) S.A. Omega tertiary amino-1-methyl alkyl-4-phenyl-4- tetrahydropyran-4-carboxylates. 3,422,102, 1-14-69, Cl. 260-247.2
Morren, Henri, to UCB (Union Chimique-Chemische Bedrijven) S.A. N-amino-alkylated heterocyclic compound. 3,423,401, 1-21-69, Cl. 260-239.
Morren, Henri, to UCB (Union Chimique-Chemische Bedrijven)S.A. N-substituted lactams. 3,459,738, 8-5-69, Cl. 260-239.3
Morren, Henri, to UCB (Union Chimique-Chemische Bedrijven) S.A. Derivatives of phenyl-acetic acid. 3,466,321, 9-9-69, Cl. 260-471.
Morren, John E., to Baker Perkins Inc., mesne. Process for recovering fatty acids and triglyceride oil from soapstock. 3,428,660, 2-18-69, Cl. 260-412.5
Morrice, Anthony Ronald Seaton. Trench shoring frame. 3,479,827, 11-25-69, Cl. 61-41.
Morrill, Vaughan, Jr., to Clay-Adams, Inc. Pipette having relatively flat cross-section. 3,441,384, 4-29-69, Cl. 23-292.
Morris, Adolph Roy: *See—*
Donaldson, Malcolm Macfarland; and Morris, Adolph Roy,3,421,927.
Donaldson, Malcolm Macfarland; and Morris, Adolph Roy,3,428,478.
Morris, Albert E., Jr., to Wren Aircraft Corporation. Aircraft yaw correction means. 3,469,807, 9-30-69, Cl. 244-90.
Morris, Albert Earl, Jr., deceased; and Morris, Helen Knox. Reversible pitch propeller control system. 3,446,289, 5-27-69, Cl. 170-160.2
Morris, Alma E., Jr. Trailer hitch. 3,441,291, 4-29-69, Cl. 280-406.
Morris, Alonzo Merril. Automatic feeder. 3,473,696, 10-21-69, Cl. 222-70.
Morris, Alton R.; and McDonald, Thomas M., to Hubbell, Harvey, Incorporated. Ground leakage differential protective apparatus. 3,473,091, 10-14-69, Cl. 317-18.
Morris, Arthur R.; Provencher, Camille L.; and Silverman, Sydney, to Export Corporation of Canada Limited, The. Slider for slide fasteners. 3,426,398, 2-11-69, Cl. 24-205.14
Morris, Carl H.: *See—*
Oliver, Henry N.; and Morris, Carl H.,3,425,219.
Morris, Carl S.: *See—*
Ayres, Charles A.; and Morris, Carl S.,3,471,374.
Morris Coupling and Clamp Company: *See—*
Straus, Albert E., 3,459,231.
Morris, David Joseph, to English Electric Company, Limited, The. MAD-R multiaperture core logic system. 3,424,917, 1-28-69, Cl. 307-88.
Morris, David Joseph, to English Electric Company Limited, The. Magnetic logical device. 3,433,973, 3-18-69, Cl. 307-88.
Morris, David Rowland: *See—*
Simpson, Malcolm Patrick; Hardwick, William Horton; Blundy, Peter Desmond; and Morris, David Rowland,3,431,071.
Morris, David, to General Precision Inc. Constant potential power supply. 3,437,912, 4-8-69, Cl. 323-22.
Morris, Donald S.: *See—*
Standaart, Adrian W., 3,474,458.
Morris, Drew W. Christmas tree stand. 3,469,342, 9-30-69, Cl. 47-38.
Morris, Earl E.: *See—*
Jacoby, Robert H.; Morris, Earl E.; and Robinson, Robert L., Jr.,3,465,823.
Morris, Earl L. Vandalproof, concealed anchor for plumbing fixture. 3,438,065, 4-15-69, Cl. 4-191.
Morris, Earl L. Support and drain construction. 3,438,066, 4-15-69, Cl. 4-288.
Morris, Elmer S.: *See—*
Bounds, William E.; and Morris, Elmer S.,3,431,749.
Morris, Enid. Snap member. 3,461,514, 8-19-69, Cl. 24-204.
Morris, Frank G., Jr.: *See—*
Lawrence, Benjamin; and Morris, Frank G., Jr.,3,484,251.

Morris, Fred C. Method of making freezer cartons and the like and template therefor. 3,435,531, 4-1-69, Cl. 33-174.
Morris, Fred J.; Roberts, George F.; and Waters, Robert L., to Electro-Mechanics Company, The. Magnetic field detector using a variable inductance rod. 3,461,387, 8-12-69, Cl. 325-363.
Morris, Geoffrey William: *See*—
Brooks, Leslie John; and Morris, Geoffrey William,3,422,624.
Morris, George Oswald: *See*—
Carson, Samuel Corbett; and Morris, George Oswald,3,484,495.
Morris, George Richard, 15% to Messenheimer, Alva Donald. Square barrel-like container. 3,462,038, 8-19-69, Cl. 217-72.
Morris, George V.; and Weill, Paul B., to United States of America, Navy. Prevention of precipitate formation in stannate stabilized hydrogen peroxide. 3,429,666, 2-25-69, Cl. 23-207.5
Morris, Harold W. Auxiliary rearview mirror system for vehicles. 3,485,555, 12-23-69, Cl. 350-302.
Morris, Hayden: *See*—
Stinchfield, James Maxwell; and Morris, Hayden,3,466,191.
Morris, Helen Knox: *See*—
Morris, Albert Earl, Jr., deceased; and Morris, Helen Knox,3,446,289.
Morris, Henry E.: *See*—
Reinhardt, Eli W.; and Morris, Henry E.,3,420,047.
Morris, Herbert C.; and Nixon, John I., deceased0 (by Nixon, Roberta L.; administratrix), to Texaco Inc. Solvent recovery in the solvent extraction of hydrocarbon oils. 3,461,066, 8-12-69, Cl. 208-321.
Morris, Herbert C.; and Nixon, John I., deceased0 (by Nixon, Roberta Lois; administratrix), to Texaco Inc. Solvent extraction of hydrocarbons with N- methyl-2-pyrrolidone. 3,451,925, 6-24-69, Cl. 208-324.
Morris, Herbert C.; and Nixon, John I., deceased0 (by Nixon, Roberta Lois; administratrix), to Texaco Inc. Separation of solvent from raffinate phase in the solvent refining of lubricating oil stocks with N- methyl-2-pyrrolidone. 3,470,089, 9-30-69, Cl. 208-326.
Morris, Herbert C.; and Nixon, John I., deceased0 (by Nixon, Roberta Lois; administratrix), to Texaco Inc. Solvent refining lubricating oils with N- methyl-2-pyrrolidone. 3,472,757, 10-14-69, Cl. 208-36.
Morris, Herbert C.; and Sequeira, Avilino, Jr., to Texaco, Inc. Production of lubricating oils. 3,438,887, 4-15-69, Cl. 208-87.
Morris, Herbert, Limited: *See*—
Reeks, Christopher George; and Davey, Anthony Walter, 3,462,883.
Ward, Frederick Gifford; and Davey, Anthony W., 3,426,887.
Morris, Horton Harold: *See*—
Sennett, Paul S.; Turner, Kenneth Lamar; and Morris, Horton Harold,3,476,576.
Morris, Horton H.; and Olivier, James P., to Freeport Sulphur Company. Process for improving the brightness of clay. 3,439,801, 4-22-69, Cl. 209-5.
Morris, Hosea D., Sr. Method of manufacturing centrifugal pump casings. 3,466,724, 9-16-69, Cl. 29-156.4
Morris, Howard E.: *See*—
Rhinehart, Richard W.; Conn, Henry L.; and Morris, Howard E.,3,460,177.
Morris, Hugh C.; Pearce, Shairyl I.; Ramsel, Charles A.; and Rohweder, Gerald D., to Caterpillar Tractor Company. Hydraulic controls. 3,429,328, 2-25-69, Cl. 137-118.
Morris, Hugh W., to International Harvester Company. Lifting jack for hay balers. 3,425,714, 2-4-69, Cl. 280-475.
Morris, Hugh W., to International Harvester Company. Baler feeder assembly. 3,464,347, 9-2-69, Cl. 100-189.
Morris, Hunter, Jr.: *See*—
Morrison, Thompson, 3,440,946.
Morris, Jack, to American Machine & Foundry Company. Forming and welding tapered tubes. 3,452,424, 7-1-69, Cl. 29-477.7
Morris, Jack; Yuter, Morton Gerald; Rudd, Wallace C.; and Allen, Richard J., Jr., to American Machine & Foundry Company. Methods and apparatus for welding wide metal strips together. 3,420,976, 1-7-69, Cl. 219-102.
Morris, James B. N. Drill collar for protecting drill string. 3,480,094, 11-25-69, Cl. 175-325.
Morris, James E., to Morris Manufacturing Company. Outside frame for side-opening cabin-type tents. 3,454,021, 7-8-69, Cl. 135-1.
Morris, James Ernest; Harrison, Edmund, Jr.; and Szaksz, Julius, to Molins Organisation Limited, The. Apparatus for sealing cigarette wrappers on continuous rod machines. 3,448,721, 6-10-69, Cl. 118-202.
Morris, James F.; and: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,447,071.
Morris, James Paul: *See*—
Gordon, Stuart; Mowate, Arthur Jack; Morris, James Paul; and Cunliffe, Alwyn,3,470,273.
Morris, James W., to Packaging Frontiers, Inc. Packaging. 3,482,373, 12-9-69, Cl. 53-112.
Morris, John M., to Rex Chainbelt, Inc. Vibration generator controls. 3,434,586, 3-25-69, Cl. 198-220.
Morris, John W., to PPG Industries, Inc. Method for strenghtening glass. 3,477,834, 11-11-69, Cl. 65-30.
Morris, Joseph Robert: *See*—
Greenwood, Robert; Harrison, Donald Britton; and Morris, Joseph Robert,3,473,848.
Harrison, Donald Britton; Morris, Joseph Robert; and Singleton, Frank,3,450,439.
Morris, Leo R., to Dow Chemical Company, The. Composition and method for controlling undesirable plant growth. 3,425,821, 2-4-69, Cl. 71-125.
Morris, Leslie Joe. Binding of sheets of paper, card or other sheet material. 3,479,676, 11-25-69, Cl. 11-1.
Morris, Lester; Thompson, Ron E.; and Seegman, Irvin P., to Products Research & Chemical Corporation. Mercaptan terminated polyethers. 3,431,239, 3-4-69, Cl. 260-48.
Morris Manufacturing Company: *See*—
Morris, James E., 3,454,021.
Morris, Mary J.: *See*—
Morris, William Whitby, 3,482,807.
Morris, Nathan K. Agitator. 3,450,391, 6-17-69, Cl. 259-122.
Morris, Philip, Incorporated: *See*—
LaCas, George A., 3,468,195.
Larson, Welsey S.; Panicci, Richard L.; Thomson, Richard N.; and Osmalov, Jerome S., 3,466,213.
Mathe, George L.; and Boothe, Floyd G., Jr., 3,460,418.
Mutter, Walter F., 3,433,054.
Mutter, Walter F.; and Watson, Duane C., 3,479,880.
Mutter, Walter F.; and Mathe, George L., 3,481,817.
Parks, Philip S., 3,460,374.
Wagner, Edward E., 3,427,932.
Morris, Raymond L. Monorail vehicle system. 3,426,703, 2-11-69, Cl. 105-145.
Morris, Richard M., to Weyerhaeuser Company. Corrugated containerboard and the process of treating the same. 3,431,162, 3-4-69, Cl. 161-133.
Morris, Robert L.; and Kinney, John F., to Union Carbide Corporation, mesne. Mulching and seeding apparatus. 3,468,267, 9-23-69, Cl. 111-73.
Morris, Robert L.: *See*—
Torrey, Sumner H.; Dubuque, Donald J.; Sloan, Norman R.; and Morris, Robert L.,3,469,568.
Morris, Robert R., to Eagle-Picher Industries, Inc. Package for sliced bread. 3,428,240, 2-18-69, Cl. 229-87.
Morris, Rupert C.: *See*—
Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F.,3,420,898.
Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F.,3,440,291.
Morris, Thomas A., Jr.; and Tate, Bryce E., to Pfizer, Chas., & Co., Inc. Decarboxylated polymeric carboxylic acid. 3,444,143, 5-13-69, Cl. 260-78.4
Morris, Thomas M. Electrolysis method and electrolytic cell. 3,427,237, 2-11-69, Cl. 204-124.
Morris, Thompson: *See*—
Morrison, Thompson, 3,440,946.
Morris, Walter George, to McGraw-Edison Company. Impregnation process. 3,485,659, 12-23-69, Cl. 117-113.
Morris, Walter: *See*—
Ramsey, Kenneth C.; and Morris, Walter,3,450,625.
Morris, Willard E.: *See*—
Schneider, Fred W.; and Morris, Willard E.,3,442,379.
Morris, William A.; and Serio, Anthony W., to Youngstown Steel Door Company, The. Detachable handle for cooking ware. 3,474,486, 10-28-69, Cl. 16-114.
Morris, William A.: *See*—
Jones, William M.; and Morris, William A.,3,438,082.
Morris, William H., Jr. Side boom attachment for tractor having rear- directed lifting hooks. 3,452,825, 7-1-69, Cl. 172-127.
Morris, William Whitby, 2/33% each to Seaborn, Charles, Sr. Horrell, Glora M., Bell, Oliver N., Robertson, Troy, Richmond, Frank C., Shaffner, Larry N., Lakatos, Charles I., Adler, Robert D., Juntikka, Oscar W., Stovell, John F., and Morris, Mary J. Launching device for aeronautical toys and the like. 3,482,807, 12-9-69, Cl. 244-155.
Morris, William W., to Motion Picture Printing Equipment Co. Film transport means. 3,471,232, 10-7-69, Cl. 355-104.
Morrision, Jessie. Multipurpose tools and wallet holders therefor. 3,461,469, 8-19-69, Cl. 7-14.25
Morrison, Albert R.: *See*—
Haynes, Harold L.; Rammel, Gerald E.; and Morrison, Albert R.,3,461,090.
Morrison, Albert W.: *See*—
Jackson, Herbert C.; Havelock, William E. B.; and Morrison, Albert W.,3,462,302.
Morrison, Anthony B.: *See*—
Goldup, Alan; Morrison, Anthony B.; and Westaway, Michael Thomas,3,484,500.
Morrison, Charles F., to Granville-Phillips Company. Method and apparatus for dynamically calibrating vacuum gauges. 3,427,858, 2-18-69, Cl. 73-4.
Morrison Company: *See*—
Kepler, Robert L., 3,471,049.

Morrison, David; and Robinson, Ralph C., to General Time Corporation. Twenty-four hour time switch. 3,485,968, Cl. 200-38. 38.
Morrison, David: *See—*
Robinson, Ralph C.; and Morrison, David,3,474,617.
Morrison, Delbert I.: *See—*
Maxson, Darwin B.; and Morrison, Delbert I.,3,458,089.
Morrison, Earle A. Centre-pivoting bed. 3,462,772, 8-26-69, Cl. 5-63.
Morrison, Earle A. Chair construction. 3,471,200, 10-7-69, Cl. 297-441.
Morrison, Edward D.: *See—*
Dotson, Billy R.; Morrison, Edward D.; and Williams, Robert F., Jr.,3,483,023.
Williams, Robert F., Jr.; and Morrison, Edward D.,3,467,568.
Morrison, Edwin A., to Culligan, Inc. Multi-circuit control system. 3,443,114, 5-6-69, Cl. 307-41.
Morrison, Edwin A.: *See—*
Kreusch, Edward G.; and Morrison, Edwin A.,3,450,265.
Lyall, Charles E.; Morrison, Edwin A.; and Vesely, Robert B.,3,441,047.
Morrison, Elbert F., to Burlington Industries, Inc. Stretch yarn. 3,460,338, 8-12-69, Cl. 57-163.
Morrison, Elwin M., to Northwest Industries Limited. Pump. 3,461,807, 8-19-69, Cl. 103-103.
Morrison, Emmett G. Vehicle brake assembly. 3,463,273, 8-26-69, Cl. 188-70.
Morrison, Frank A., to Carrier Corporation. Fluid strainer. 3,447,684, 6-3-69, Cl. 210-108.
Morrison, Frank W.; and Morrison, Jerry E. Self-propelled earth excavating and leveling apparatus. 3,466,770, 9-16-69, Cl. 37-117.5
Morrison, Fred T.: *See—*
Woodruff, George M.; Morrison, Fred T.; and Balaban, Ostap,3,438,310.
Morrison, Glenn C.: *See—*
Shavel, John, Jr.; and Morrison, Glenn C.,3,438,989.
Shavel, John, Jr.; and Morrison, Glenn Curtis,3,452,023.
Shavel, John, Jr.; and Morrison, Glenn Curtis,3,452,024.
Morrison, Gordon M. Orthopedic surgical instrument. 3,486,505, 12-30-69, Cl. 128-303.
Morrison, James L. D.: *See—*
Dunlap, Jerald V.; and Morrison, James L. D.,3,427,053.
Morrison, Jerry E.: *See—*
Morrison, Frank W.; and Morrison, Jerry E.,3,466,770.
Morrison, John E., Jr.: *See—*
Mark, Alexander H.; and Morrison, John E., Jr.,3,434,437.
Morrison, John K.: *See—*
Mulligan, Terrence J.; and Morrison, John K.,3,467,112.
Morrison, John R.: *See—*
Bate, Geoffrey; Judge, John S.; Morrison, John R.; and Speliotis, Denis E.,3,460,968.
Morrison, John R.; and Speliotis, Dennis E., to International Business Machines Corporation. Magnetic transducer. 3,479,663, 11-18-69, Cl. 340-174.1
Reed, Leonard J.; and Morrison, John R.,3,451,128.
Speliotis, Dennis E.; Morrison, John R.; Alstad, John K.; and Bate, Geoffrey,3,453,646.
Morrison, John, to Owens-Illinois, Inc. Method and apparatus for forming a tubular article of wound plies of thermoplastic strip material. 3,457,130, 7-22-69, Cl. 156-190.
Morrison, Joseph D.: *See—*
Kattus, James R.; and Morrison, Joseph D.,3,472,706.
Morrison, Louis A., to Roanwell Corporation. Transducer drive rod. 3,454,912, 7-8-69, Cl. 335-231.
Morrison Products, Inc.: *See—*
Baker, Harold L., 3,423,012.
Morrison, Robert A.: *See—*
Vincent, Donat A. A.; and Morrison, Robert A.,3,422,388.
Morrison, Robert C. B.: *See—*
Kamienski, Conrad W.; Diesing, Arthur C.; and Morrison, Robert C. B.,3,452,112.
Bach, Ricardo O.; Kamienski, Conrad W.; Dellinger, Matthew Henry; Mitchem, Luther C.; and Morrison, Robert C.,3,445,534.
Morrison, Robert F., Jr., to General Dynamics Corporation. Duplexing system. 3,471,787, 10-7-69, Cl. 325-22.
Morrison, Robert. Derrick cranes and swinging derricks. 3,430,776, 3-4-69, Cl. 212-3.
Morrison, Stanley R.; Sancier, Kenneth M.; and Freund, Thomas, to Stanford Research Institute. Photoelectrostatic fluid analyzer. 3,433,964, 3-18-69, Cl. 250-218.
Morrison, Thompson, to Morris, Hunter, Jr., and Morris, Thompson, mesne. Proportional centrifugal blower. 3,440,946, 4-29-69, Cl. 98-38.
Morrison, William Craig, to G.B. Tools and Components Exports Limited. Clamping devices. 3,452,975, 7-1-69, Cl. 269-20.
Morriss, Reuben M., Jr.: *See—*
Hill, Robert E.; Mills, George B.; and Morriss, Reuben M., Jr.,3,474,172.
Morrissette, Philip A., to General Electric Company. Magnetic tape cartridge and drive mechanism. 3,439,880, 4-22-69, Cl. 242-55.13.
Morrissey, Neal J.: *See—*
Staats, Henry N.; Levitan Maurice D.; and Morrissey, Neal J.,3,483,067.
Morrissey, William H., to U.S. Plywood-Champion Papers Inc. Molding and molding system. 3,462,900, 8-26-69, Cl. 52-312.
Morritt, K. P., Limited: *See—*
Morritt, Kenneth Patrick, 3,477,659.
Morritt, Kenneth Patrick, to Morritt, K. P., Limited. Rotatable spool fishing reel. 3,477,659, 11-11-69, Cl. 242-84.52
Morritz, Fred L.: *See—*
Zanowick, Richard L.; Coker, Jesse E.; and Morritz, Fred L.,3,433,684.
Morro, Joseph L.: *See—*
Cavagnero, Erman V.; Sheffield, Wilbur L.; and Morro, Joseph L.,3,433,041.
Morrone, Ross F., to Time Research Laboratories, Inc. High speed bonding apparatus. 3,486,004, 12-23-69, Cl. 219-385.
Morroni, Peter J. Mold having complemental non-planar mating areas for parting surfaces between the mold cavities. 3,456,301, 7-22-69, Cl. 18-42.
Morrow, Andrew G.: *See—*
Pierce, William S.; Morrow, Andrew G.; and Behrendt, Douglas M.,3,448,465.
Morrow, Arnold and Becknell, Raleigh: *See—*
Morrow, Arnold, 3,425,518.
Morrow, Arnold, to Morrow, Arnold and Becknell, Raleigh, jointly. Power operated spreading-type disc brake. 3,425,518, 2-4-69, Cl. 188-72.
Morrow, David R., to Carrier Corporation. Acid producing plant. 3,441,380, 4-29-69, Cl. 23-260.
Morrow, Duane F., to Parke, Davis, & Company. 17-Substituted-pregna-5,20-diene compounds and methods for their production. 3,427,331, 2-11-69, Cl. 260-397.1
Morrow, Edward L., to Olin Mathieson Chemical Corporation. Firearm ejector. 3,431,669, 3-11-69, Cl. 42-25.
Morrow, Edward L., to Olin Mathieson Chemical Corporation. Tubular magazine firearm with carrier release and latch. 3,432,956, 3-18-69, Cl. 42-17.
Morrow, Floyd H.: *See—*
Ammons, Joseph L.; and Morrow, Floyd H.,3,421,178.
Ammons, Joseph L.; and Morrow, Floyd H.,3,421,394.
Morrow, James A., to LTV Aerospace Corporation, mesne. Transducer array and erecting means. 3,444,511, 5-13-69, Cl. 340-9.
Morrow, James J., to Fischer & Porter Co. Fluoride analyzer. 3,449,233, 6-10-69, Cl. 204-195.
Morrow, James J.: *See—*
Peters, Harry L.; Nessim, David J.; Morrow, James J.; and Hilton, Garrett H., Jr.,3,471,391.
Morrow, John H.; and Mednick, Charles, to Magnacraft Manufacturing Company. Stacking machine. 3,420,386, 1-7-69, Cl. 214-6.
Morrow, John H.; and Mednick, Charles, to Magnacraft Manufacturing Company. Stacking machine. 3,480,503, 11-25-69, Cl. 156-351.
Morrow, Thomas W.: *See—*
Turner, David W.; and Morrow, Thomas W.,3,421,227.
Morrow, Warren P., to United States of America, Army. Gun bore wire takeup cone. 3,464,266, 9-2-69, Cl. 73-167.
Morrow, William J. Open end ratchet wrench with a removable head. 3,448,641, 6-10-69, Cl. 81-58.2
Morse, Albert Reynolds, to IMS Company. Reciprocable screw injection molding device. 3,425,096, 2-4-69, Cl. 18-30.
Morse, Arthur L., to TRW Inc. Cryogenic flux-gating magnetometer. 3,470,461, 9-30-69, Cl. 324-43.
Morse, Charles E., to Bell Telephone Laboratories, Incorporated. Dial selective intercommunication system. 3,450,845, 6-17-69, Cl. 179-84.
Morse, Charles E.; and Smith, John P., to Bell Telephone Laboratories, Incorporated. Automatic telephone voice-data transfer circuit. 3,475,557, 10-28-69, Cl. 179-2.
Morse, Charles H., to Remington Arms Company, Inc. Extractor system with a single spring exerting unequal forces upon two firearm extractors. 3,477,162, 11-11-69, Cl. 42-25.
Morse, Charles M.: *See—*
Cannon, Richard; and Morse, Charles M.,3,426,304.
Cannon, Richard L.; and Morse, Charles M.,3,444,770.
Morse, Donald B.; and Menzer, Alfred B., to Kemlite Corporation. Method of making a reinforced resin panel using a soluble cover sheet. 3,480,497, 11-25-69, Cl. 156-155.
Morse, Edward A., to Johnson & Johnson. Method of making an absorbent product. 3,455,759, 7-15-69, Cl. 156-251.
Morse, Glenn B. Multiple purpose machine. 3,470,789, 10-7-69, Cl. 90-11.
Morse, James H.: *See—*
Woodbury, Eric J.; and Morse, James H.,3,471,801.
Morse, John E.; and Rosenburgh, Norman J., to Eastman Kodak Company. Tape cutoff mechanism. 3,474,696, 10-28-69, Cl. 83-585.

Morse, Lester M., to Sinclair Research, Inc. Check valve. 3,441,051, 4-29-69, Cl. 137-516.25
Morse, Meroe M., to Polaroid Corporation. Novel photographic product and process. 3,451,815, 6-24-69, Cl. 96-29.
Morse, Milton. Nonexpandable boot. 3,420,119, 1-7-69, Cl. 74-566.
Morse, Milton. Means and method of making threaded fasteners. 3,423,778, 1-28-69, Cl. 10-2.
Morse, Milton. Means and method of making spiral binding fasteners. 3,429,161, 2-25-69, Cl. 72-88.
Morse, Milton, to A. P. M. Hexseal Corporation. Means for making spiral locking screws having coaxially aligned ends. 3,453,851, 7-8-69, Cl. 72-90.
Morse, Philip W.: *See—*
Courtot, Louis B.; Jeromsom, James R., Jr.; and Morse, Philip W.,3,463,517.
Morse Products Manufacturing: *See—*
Falck, Melvin S., Jr., 3,484,771.
Morse, Raymond L.: *See—*
Carter, Paul H.; Marion, Thomas E.; Morse, Raymond L.; and Doty, William T.,3,460,317.
Morse, Richard A.: *See—*
Barecki, Chester J.; and Morse, Richard A.,3,464,751.
Morse, Richard W.: *See—*
Green, Julius; Morse, Richard W.; and Westfall, Dick R.,3,448,718.
Morse, Roger J., to Allied Chemical Corporation. Single port liquid vapor valve. 3,459,220, 8-5-69, Cl. 137-605.
Morse, Roy E.: *See—*
Zamcitat, Wolfgang; and Morse, Roy E.,3,438,785.
Morse, Stanley H. Refrigeration valve. 3,424,181, 1-28-69, Cl. 137-68.
Morse, Theodore H.: *See—*
Valley, Richard B.; and Morse, Theodore H.,3,441,848.
Morse, William F.: *See—*
Darrow, Richard G.; Morse, William F.; and Reid, Edward A., Jr.,3,470,862.
Morshauser, Fred S.; Kalish, Samuel; and Biamonte, Alfred R., to Warner-Lambert Pharmaceutical Company. Multi-colored cosmetic preparation. 3,479,429, 11-18-69, Cl. 424-63.
Mortensen, Aage W. Method and apparatus for conditioning logs to be cut into veneer. 3,448,530, 6-10-69, Cl. 34-13.8
Mortensen, Gilbert P.: *See—*
Vodoklys, Frank M.; and Mortensen, Gilbert P.,3,470,106.
Mortensen, Harold R.: *See—*
Buxton, James E.; Emmick, Charles R.; and Mortensen, Harold R.,3,465,353.
Mortillaro, Luigi; Russo, Mario; and Bezzi, Silvio, deceased0 (by Viller, Ladislava; heir), to Montecatini Edison S.p.A. Thermally stable formaldehyde high polymers and process for their preparation. 3,425,991, 2-4-69, Cl. 260-67.
Mortimer, Austin J., to Radio Corporation of America. Switching circuits. 3,443,188, 5-6-69, Cl. 318-332.
Mortimer, Austin J., to RCA Corporation. Self-regulating switching circuit. 3,471,771, 10-7-69, Cl. 323-22.
Mortimer, George A., to Monsanto Company. Polymerization of ethylene utilizing an organoperoxysilane as the catalyst. 3,450,686, 6-17-69, Cl. 260-94.9
Mortimer, George A., to Monsanto Company. Terpolymers of ethylene, a vinyl ester and an unsaturated amide. 3,451,982, 6-24-69, Cl. 260-80.73
Mortimer, George A., to Monsanto Company. Interpolymers of ethylene, an unsaturated amide, and a vinyl ether. 3,458,487, 7-29-69, Cl. 260-80.73
Mortimer, George A., to Monsanto Company. Terpolymers of ethylene, a mono-olefin, and an unsaturated amide. 3,481,908, 12-2-69, Cl. 260-80.73
Mortimer, George H.: *See—*
Lake, Louise; and Mortimer, George H.,3,472,094.
Mortimer, John W.: *See—*
Barbee, Gail G.; and Mortimer, John W.,3,484,009.
Mortl, Gunther Lorenz: *See—*
Maier, Kurt Maria; Mayer, Viktor; Mortl, Gunther Lorenz; and Skalla, Norbert Franz,3,429,723.
Mortley, Harold Redvers; Chapman, Thomas Grandin; Goodspeed, Morley James; and Savage, John Vivian. Event recorder. 3,467,305, 9-16-69, Cl. 234-1.
Mortley, Wilfred Sinden; Radcliffe, Stuart Norman; and Clarke, Stanley Frederick, to Marconi Company Limited, The. Phase stabilization of swept freqency oscillators. 3,421,112, 1-7-69, Cl. 331-178.
Mortlock, James Oswald; London, William Herbert; and Shaw, William, to Rolls-Royce Limited. Fluid flow reversers. 3,475,913, 11-4-69, Cl. 60-229.
Mortoly, John L.: *See—*
Quick, Lloyd; Mortoly, John L.; and Cameron, Steele P.,3,428,508.
Morton, David I.: *See—*
Martin, Eugene R.; and Morton, David I.,3,477,115.
Morton, Evans T., to Aqua-Chem, Inc. Apparatus for purifying water. 3,445,344, 5-20-69, Cl. 202-176.
Morton, Glenn B. Method of fabricating aluminum hinge leaves. 3,432,899, 3-18-69, Cl. 29-11.
Morton, Henry C., to Russell Manufacturing Company, The. Antifriction bearing element. 3,464,882, 9-2-69, Cl. 161-151.
Morton International, Inc.: *See—*
Hull, James W.; and Penn, Howard, 3,445,656.
Muenchinger, William O.; and Hull, James W., 3,471,312.
Williams, Thomas H., 3,468,824.
Morton, Jack A.: *See—*
Arthur, John R., Jr.; Morton, Jack A.; Pfann, William G.; and Wagner, Richard S.,3,466,485.
Bowers, Klaus D.; and Morton, Jack A.,3,421,154.
Crowell, Merton H.; and Morton, Jack A.,3,428,850.
Morton, James D., to Timken Roller Bearing Company, The. Vent grommets. 3,454,182, 7-8-69, Cl. 220-44.
Morton, John R., to Michigan Chemical Corporation. Method of separating yttrium from rare earths by ion exchange. 3,455,646, 7-15-69, Cl. 23-23.
Morton, John, to Emco Limited. Ball valve with drain passage. 3,464,449, 9-2-69, Cl. 137-625.24
Morton, Kenneth O.: *See—*
Denault, Albert P.; Gruber, Lawrence H.; and Morton, Kenneth O.,3,478,939.
Morton Manufacturing Company: *See—*
Nystrom, Wilford O., 3,466,698.
Morton, Peter Harlow; and Barber, Anthony Clifford, to Imperial Metal Industries (Kynoch) Limited. Assemblies of superconductor elements. 3,472,944, 10-14-69, Cl. 174-15.
Morton, Richard C.; and Sher, Neil C., to Honeywell Inc. Engine start-up sequence control apparatus. 3,478,731, 11-18-69, Cl. 123-198.
Morton, Robert C.: *See—*
Newland, James E.; and Morton, Robert C.,3,461,365.
Morton, Robert D.; and Grohoski, Edward G., to Hartford Special Machinery Company, The. Variable air jet delivery system. 3,472,400, 10-14-69, Cl. 214-8.5
Morton, Robert E.: *See—*
Kerrigan, James A.; and Morton, Robert E.,3,449,806.
Morton Salt Company: *See—*
Hurst, Alan R., 3,445,326.
Morton, Ted R.; and Douglass, George A., to Armco Steel Corporation. Pontoon floatation support. 3,446,172, 5-27-69, Cl. 114-0.5
Mortonson, Albert W. Downspout diverter. 3,481,366, 12-2-69, Cl. 137-612.
Morucci, Jean Pierre: *See—*
Lansiart, Alain; Morucci, Jean Pierre; and Roux, Georges,3,449,573.
Morway, Arnold J.; and Bodner, Albert J., to Esso Research and Engineering Company. Lubricant containing alkaline earth metal mixed salt thickeners and colloidal asbestos. 3,424,678, 1-28-69, Cl. 252-13.
Morway, Arnold J.; and Bodner, Albert J., to Esso Research and Engineering Company. Lubricating grease containing colloidal asbestos. 3,433,743, 3-18-69, Cl. 252-13.
Morway, Arnold J.; and Bodner, Albert J. Sodium nitrite stabilized with colloidal asbestos. 3,461,070, 8-12-69, Cl. 252-21.
Mory, Rudolf: *See—*
Anderau, Walter; Mory, Rudolf; and Piller, Bernhard,3,454,402.
Mory, Rudolf; and Oetiker, Alfred, to Ciba Limited. Colour bleaching catalysts for the silver dyestuff bleaching process. 3,443,947, 5-13-69, Cl. 96-53.
Oetiker, Alfred; and Mory, Rudolf,3,443,949.
Mory, Rudolp, to Ciba Limited. Photographic material for the silver dyestuff bleaching process. 3,454,401, 7-8-69, Cl. 96-99.
Morzynski, Stanislaw; and Kostyrko, Jerzy. Axial relieving arrangement for impeller-type pumps. 3,468,259, 9-23-69, Cl. 103-111.
Mos, Gerardus Henricus Maria: *See—*
Claassen, Volkert; Huisman, Hendrikus Obias; and Mos, Gerardus Henricus Maria,3,472,938.
Mosby, James H. Bolo slide. 3,453,698, 7-8-69, Cl. 24-49.
Mosby, William Lindsay, to American Cyanamid Company. Iminonaphtho[2,3-d]-1,3-dithiole-4,9-diones. 3,424,764, 1-28-69, Cl. 260-327.
Mosby, William Lindsay, to American Cyanamid Company. 2-Methylenenaphtho [2,3[2,3-d]-1,3- dithiole-4,9-diones. 3,429,895, 2-25-69, Cl. 260-327.
Mosby, William Lindsay, to American Cyanamid Company. Organotin-, arsenic and antimony 1,1-ethylene dithiolates. 3,429,905, 2-25-69, Cl. 260-429.7
Mosby, William Lindsay; Gillham, Helen Currier; and Sherr, Allan Ellis, to American Cyanamid Company. Dihalo substituted phosphoranylidene-amino ben- zoquinones and method for their production. 3,439,005, 4-15-69, Cl. 260-396.
Moscardi, Michael Henry, to English Electric Company Limited, The. Control circuits for inverters producing an alternating output constituted by a pulse train. 3,445,742, 5-20-69, Cl. 318-230.
Moschettini, Gennaro. Guard-rails for roads. 3,467,361, 9-16-69, Cl. 256-13.1
Moscovich, Ivan. Harmonograph. 3,473,229, 10-21-69, Cl. 33-27.

Moscovici, Anuta; Maricuta, Nicolae; and Cocosco, Elizabeta, to Ministerul Industriei Chimice. Process for the recovery of tellurium from complex solutions of chlorides. 3,472,623, 10-14-69, Cl. 23-209.

Moscowitz, Milton J.: *See—*
Feldman, De Neal J.; Feldman, Jack J.; and Moscowitz, Milton J.,3,475,828.

Mosebach, Wolfgang; Evans, William E. R.; and Stevens, Richard S., to International Standard Electric Corporation. Capacitors. 3,470,307, 9-30-69, Cl. 174-12.

Moseley, Karl Wilfred: *See—*
Harmes, Oren Burton; and Moseley, Karl Wilfred,3,483,666.

Moseley, Robin Christopher: *See—*
Wilson, Herbert Ridgely Day; and Moseley, Robin Christopher,3,484,586.

Moseley, Roland E.: *See—*
Bartlett, Homer E.; and Moseley, Roland E.,3,430,244.

Mosely, Graham Hartwell: *See—*
Best, Howard S.; Gibbs, Paul F.; and Mosely, Graham Hartwell,3,467,004.

Moseman, Richard: *See—*
Ely, Robert G., 3,456,810.

Moser, Albert: *See—*
Luginbuhl, Pierre; and Moser, Albert,3,451,188.

Moser, Alois: *See—*
Gorge, Werner; and Moser, Alois,3,448,993.

Moser, Henry W., to Harris-Intertype Corporation. Prefeeder mechanism for single facer machines. 3,479,240, 11-18-69, Cl. 156-205.

Moser, James R., to Leesona Corporation, mesne. Multi-layer catalytic electrode having a layer of noble metal and lead and a surface layer free of lead and method of constructing same. 3,444,003, 5-13-69, Cl. 136-120.

Moser, Joseph R.; and Struger, Odo J., to Allen-Bradley Company. Single error detector for binary information. 3,466,602, 9-9-69, Cl. 340-146.1

Moser, Joseph R.: *See—*
Struger, Odo J.; and Moser, Joseph R.,3,478,228.

Moser, Karl O. Conduit cleaning tool. 3,435,478, 4-1-69, Cl. 15-104.1

Moser, Lester W.; and Romanelli, Aldo, to Stanley Works, The. Reinforced collapsible door. 3,443,625, 5-13-69, Cl. 160-181.

Moser, Paul M., to United States of America, Navy. Infrared gray scale array. 3,478,211, 11-11-69, Cl. 250-83.

Moser, Raymond L.: *See—*
Campbell, Trevor G.; Eftefield, Larry G.; and Moser, Raymond L.,3,474,547.
De Boeuf, James L.; Eftefield, Larry G.; Moser, Raymond L; and Wagner, Ernest W.,3,471,951.

Moser, William Henry, to CCI Marguardt Corporation, mesne. Self-unloading trailer. 3,482,717, 12-9-69, Cl. 214-83.36

Moses, Adrian J., to Honeywell Inc. Transistor amplification circuitry. 3,456,204, 7-15-69, Cl. 330-21.

Moses, Adrian J., to Honeywell Inc. Signal limiting apparatus. 3,465,171, 9-2-69, Cl. 307-237.

Moses, Adrian J., to Honeywell Inc. Shaft position indicator circuit for synchro. 3,465,256, 9-2-69, Cl. 328-133.

Moses, Adrian J., to Honeywell Inc. Bipolar limiting circuit. 3,466,463, 9-9-69, Cl. 307-237.

Moses, Adrian J., to Honeywell Inc. Push-pull amplifier apparatus. 3,474,345, 10-21-69, Cl. 330-15.

Moses, Bernard Cecil; and Thomas, David Henry, to Lever Brothers Company. Apparatus for stamping soap tablets and the like. 3,449,804, 6-17-69, Cl. 25-7.

Moses, Samuel F.; and Scherr, Oscar L., deceased0 (by Scherr, Pearl B.; executrix). Method of treating soil. 3,458,953, 8-5-69, Cl. 47-58.

Moseson, Roger M., to Bendix Corporation, The, mesne. Radio frequency sputtering apparatus. 3,451,917, 6-24-69, Cl. 204-298.

Moseson, Roger M., to Bendix Corporation, The, mesne. Cathodic sputtering apparatus wherein the electron source is positioned through the sputtering target. 3,472,755, 10-14-69, Cl. 204-298.

Moseson, Roger M., to Bendix Corporation, The, mesne. Cathodic sputtering apparatus wherein the sputter- ing plasma is generated by a plurality of electrically isolated circuits. 3,475,315, 10-28-69, Cl. 204-298.

Mosetich, Joseph, to Fastener Corporation. Bundle or package of fasteners. 3,450,255, 6-17-69, Cl. 206-56.

Mosgrove, Walter G.: *See—*
Landis, George G.; and Mosgrove, Walter G.,3,466,907.

Mosher, Carol W.; Acton, Edward M.; and Goodman, Leon, to United States of America, Health, Education, and Welfare. Tetrahydrohomofolic acid sulfate and synthesis thereof. 3,468,886, 9-23-69, Cl. 260-251.5

Mosher, Charles H., to Varian Associates. Microwave bulk-effect negative-resistance device having a high perimeter to area ratio. 3,469,209, 9-23-69, Cl. 331-107.

Mosher, Charles William: *See—*
Conkling, William Collins; and Mosher, Charles William,3,425,279.

Mosher, Melville C., to Crompton & Knowles Corporation. Edge forming device for looms. 3,460,583, 8-12-69, Cl. 139-118.

Mosher, Melville C., to Crompton & Knowles Corporation. Weft feeding mechanism. 3,460,584, 8-12-69, Cl. 139-122.

Mosher, Owen D.: *See—*
Paquin, Leon J.; Mosher, Owen D.; and Violette, Glenn M.,3,448,000.

Mosher, Robert E.: *See—*
Bunn, Willis P.; Milosevich, Charles; and Mosher, Robert E.,3,452,280.

Mosher, Walter W., Jr.: *See—*
Long, Donald A.; and Mosher, Walter W., Jr.,3,429,065.
Long, Donald A.; and Mosher, Walter W., Jr.,3,467,246.

Moshier, Ross W., to United States of America, Air Force. Haloalkoxy-halodiketo-, halodiketo-and fluoroalkoxy-metal compounds. 3,424,772, 1-28-69, Cl. 260-429.

Moshy, Raymond J.: *See—*
Buckler, Sheldon A.; Martel, Rock F; and Moshy, Raymond J.,3,472,835.

Moshy, Raymond J.; and Germino, Felix J., to American Machine & Foundry Company. Reconstituted tobacco sheet. 3,421,519, 1-14-69, Cl. 131-17.

Mosier, Benjamin, to United States of America, National Aeronautics and Space Administration. Plated electrodes. 3,468,303, 9-23-69, Cl. 128-2.1

Mosier, Harold F., Jr., to Electro-Voice, Incorporated, mesne. Method of making electroacoustical devices. 3,434,205, 3-25-69, Cl. 29-594.

Mosier, Jack W.: *See—*
Moore, William P., Jr.; and Mosier, Jack W.,3,435,089.

Mosier, Stanley A., to United Aircraft Corporation. Catalytic attitude-control rocket motor. 3,446,023, 5-27-69, Cl. 60-257.

Mosilana, Narodni Podnik: *See—*
Koubik, Milan; Kresta, Vaclav; and Valenta, Jiri, 3,458,543.

Mosimann, Walter: *See—*
Casty, Richard; Berger, Alfred; Mosimann, Walter; and Abel, Heinz,3,421,830.

Mosing, Lionel W.: *See—*
Bryant, Herbert W.; Hazell, Norman C.; and Mosing, Lionel W.,3,440,365.

Moskal, Le Roy G., to Alkar Engineering Corporation. Smokehouse control system. 3,440,950, 4-29-69, Cl. 99-259.

Moskowitz, Arthur; Kovach, Curtis W.; and Wells, Ralph G., to Crucible Steel Company of America. Free-machining austenitic stainless steels. 3,437,478, 4-8-69, Cl. 75-128.

Moskowitz, Arthur; and Saltzman, Gilbert Allen, to Crucible Steel Company of America. Stainless steel. 3,455,681, 7-15-69, Cl. 75-126.

Moskowitz, Donald, to Roto-Print Machine Corporation. Cylinder adjusting means in rotary screen printing machine. 3,456,584, 7-22-69, Cl. 101-119.

Moskowitz, Lawrence; and Thomas, David W., to Schaevitz Engineering. Temperature compensation circuit for a differential transformer. 3,441,834, 4-29-69, Cl. 323-48.

Moskowitz, Murray, to Maidenform, Inc. Hanger for girdles. 3,463,369, 8-26-69, Cl. 223-91.

Moskowitz, Saul; and Burkhart, Harry Wade, Jr., to Kollsman Instrument Corporation. Radiation sensitive high accuracy horizon seeker. 3,446,970, 5-27-69, Cl. 250-203.

Mosler Research Products, Inc.: *See—*
Hansen, Donald E.; and Quist, Eric G., 3,423,748.
Hansen, Donald E.; and Quist, Eric G., 3,447,054.
Hansen, Donald E., 3,462,755.
Kaplan, Martin; and Quist, Eric G., 3,487,397.
Novak, Warren D., 3,429,245.

Mosler Safe Company, The: *See—*
De Boer, Hendrik J.; and Gettle, Robert E., 3,465,955.
Gettle, Robert E.; and Voss, Robert H., 3,452,925.
Heyl, Leo W.; and Maynard, Robert W., 3,426,707.
Lingal, Harry J., 3,481,166.
Potzick, Anthony J., 3,436,941.
Slater, Charles E., 3,420,155.
St. Clair, Albert R.; and Maynard, Robert W., 3,421,461.

Mosley, John C.: *See—*
Zubik, Arnold R.; and Mosley, John C.,3,461,641.

Moslo, Ernest P. Parison-type bottle blowing machine. 3,480,994, 12-2-69, Cl. 18-5.

Mosman, Rolland L.; and Stromen, Ronald H. Truck for granular material. 3,448,876, 6-10-69, Cl. 214-83.2

Mosquera, Hugo O.: *See—*
Deli, Jack M.; Jacobsen, Walter C.; Fanslow, Ronald J.; and Mosquera, Hugo O.,3,452,835.

Moss, Arthur William; Jones, Norman; and Carpenter, Kenneth, to Frost, H., Company Limited. Electrical illumination devices. 3,445,948, 5-27-69, Cl. 40-106.54

Moss, Brian Yoxall. Tracing head for line following apparatus. 3,470,376, 9-30-69, Cl. 250-202.

Moss, Charles R., to Eaton Yale & Towne, Inc. Door opener. 3,481,074, 12-2-69, Cl. 49-28.

Moss, Ellsworth R.: *See—*
Bartnik, John C.; and Moss, Ellsworth R.,3,434,070.

Moss, Franklin, to Mosstype Corporation. Optical projector for reproportioning images. 3,445,161, 5-20-69, Cl. 355-47.
Moss, Fred Dudley: *See*—
Halper, Walter M.; and Moss, Fred Dudley,3,438,920.
Halper, Walter M.; York, Roger F.; and Moss, Fred Dudley,3,459,693.
Moss, Fred Dudley; and Bean, Arthur R., Jr., to Shell Oil Company. Preparation of block copolymers using particular polymerization solvents. 3,465,065, 9-2-69, Cl. 260-879.
Moss, Geoffrey: *See*—
Young, Ian R.; Keefe, Arthur T.; and Moss, Geoffrey,3,475,727.
Moss, George J., Jr., to United States of America, Navy. Controlled threshold detector for sonar applications. 3,449,710, 6-10-69, Cl. 340-3.
Moss, Gerald; and Stockill, Edward Cyril, to Esso Research and Engineering Company. Treatment of coal and other minerals. 3,458,044, 7-29-69, Cl. 209-166.
Moss, Harold S.: *See*—
Cole, Joseph I.; and Moss, Harold S.,3,445,077.
Moss, Herbert Irwin; and Stollar, William Porter, to Radio Corporation of America. Method for pressing particulate material. 3,448,184, 6-3-69, Cl. 264-125.
Moss, Joe B., to Western Electric Company, Incorporated. Method of cooling a jacket for a strand. 3,428,726, 2-18-69, Cl. 264-237.
Moss, John I., to Relaxacizor, Inc. Electronic muscle stimulator and electrodes therefor. 3,424,165, 1-28-69, Cl. 128-405.
Moss, Kenneth G. Vehicle. 3,430,791, 3-4-69, Cl. 214-505.
Moss, Leo: *See*—
Johnson, Glen M., 3,457,972.
Moss, Louis. Floor mat. 3,445,083, 5-20-69, Cl. 248-350.
Moss, Norman, to Plessey Company Limited, The. Gas-turbine rotors. 3,443,792, 5-13-69, Cl. 253-77.
Moss, Ronald; Campbell, Kenneth; and Griffiths, Samuel T., to Associated Octel Company Limited, The. Extraction of lead from petroleum products employing aqueous iodine monochloride. 3,481,866, 12-2-69, Cl. 208-251.
Moss, Theron C. Dry mop and method making the same. 3,425,085, 2-4-69, Cl. 15-229.
Moss, Theron V. Mop construction. 3,432,873, 3-18-69, Cl. 15-118.
Moss, Theron V. Dry mop. 3,449,784, 6-17-69, Cl. 15-229.
Moss, Theron V.; and Dalhart, Austin Thomas, said Dalhart assor to said Moss. Attachment device for mops and the like. 3,431,576, 3-11-69, Cl. 15-229.
Mosse, Pierre: *See*—
Brebant, Charles; Labet, Jacques; and Mosse, Pierre,3,485,548.
Mossey, Paul W., to United States of America, Air Force. Optical port for use in high velocity streams. 3,464,441, 9-2-69, Cl. 137-559.
Mossey, Paul W., to United States of America, Air Force. Probe for testing supersonic gases. 3,475,961, 11-4-69, Cl. 73-343.
Mossi, Ercole J.: *See*—
Dean, Mills, III; Ficken, Norman L., Jr.; and Mossi, Ercole J.,3,457,536.
Mossman, Henry L.; and McDonald, Douglass A., to Avco Corporation. Dead shaft spindle assembly for reduced apertured grinding wheels. 3,422,578, 1-21-69, Cl. 51-168.
Mossman, Raymond B. Board game apparatus with playing piece used by all players. 3,455,556, 7-15-69, Cl. 273-134.
Mosso, Paul R.: *See*—
Wismer, Marco; Doerge, Herman P.; and Mosso, Paul R.,3,468,822.
Mossop, James B., to Testor Corporation of Canada, Ltd., The. Aspirator insert. 3,454,228, 7-8-69, Cl. 239-308.
Mosstype Corporation: *See*—
Moss, Franklin, 3,445,161.
Mosterd, Jacob H., to Apparatenbouw 'MOBA' N.V. Weight sorting machine. 3,432,034, 3-11-69, Cl. 209-73.
Mostyn, Rodney: *See*—
de Tullio, Luigi; Spence, Ian Leighton; and Mostyn, Rodney,3,431,549.
Mosvold, Gordon, to Ocean Research and Manufacturing Company, Inc., mesne. System and apparatus for connecting and steering pushed vessels. 3,461,829, 8-19-69, Cl. 114-235.
Moteurs Drouard: *See*—
Drouard, Jean L.; and Stavropoulos, Andre A., 3,487,457.
Mothershead, John S.: *See*—
Ricard, Jacques L.; Graham, Robert D.; and Mothershead, John S.,3,464,782.
Mothiron, Claude: *See*—
Cailleux, Philippe; and Mothiron, Claude,3,473,085.
Motion Picture Printing Equipment Co.: *See*—
Morris, William W., 3,471,232.
Motis, Gilbert M., to Unimaco, Inc., mesne. Food handling apparatus. 3,434,518, 3-25-69, Cl. 146-68.
Motis, Gilbert M. Linear to rotational movement converter. 3,466,937, 9-16-69, Cl. 74-89.22
Motis, Gilbert M. Solenoid elbow. 3,466,944, 9-16-69, Cl. 74-527.
Motl, Anton; and Littlepage, James H., to Griggs Equipment, Inc. Chair bracket. 3,476,342, 11-4-69, Cl. 248-188.
Motley, George R.: *See*—
Recio, Orlando; Holloway, Richard A.; Lancaster, Ronald L.; Jones, Dennis J.; and Motley, George R.,3,437,993.
Motley, Joe Bailey; and Shape, Raymond H., to Intercontinental Manufacturing Company, Inc. Forming apparatus. 3,440,858, 4-29-69, Cl. 72-342.
Motley, Robert L.Child's rattle with bells and simulated animal. 3,464,151, 9-2-69, Cl. 46-175.
Motor Coach Industries, Inc.: *See*—
Derragon, Don C., Jr., 3,442,439.
Motor Coach Industries Limited: *See*—
Zoltok, Harry, 3,442,050.
Zoltok, Harry, 3,485,293.
Motor Wheel Corporation: *See*—
Bodett, Peter C., 3,422,633.
Fraim, Clinton W., 3,444,854.
Hubbard, Harold C., 3,445,622.
Hubbard, Harold C., 3,451,934.
Hubbard, Harold C., 3,476,223.
Talmage, Charles Robert, 3,445,893.
Wilcox, Raymond J., 3,438,111.
Motoren-Werke Mannheim A.G., Vorm. Benz Abt. Stat. Motorenbau: *See*—
Pfleghaar, Anton, 3,447,524.
Motorola, Inc.: *See*—
Adlhoch, Richard H.; Chapman, Ronald H.; and Ogasawara, Roy T., 3,458,664.
Allen, Frihoff Grant; and Seelbach, Walter C., 3,446,989.
Angelucci, George V.; Kurtz, Richard J.; and O'Fallon, Richard G., 3,434,770.
Baum, James R.; and Jimenez, Raymond J., 3,462,317.
Baxter, Emery E., 3,424,854.
Bell, Harold B.; and Doyle, George A., 3,444,440.
Benedict, Theodore S.; and Ozias, Albert E., Jr., 3,438,810.
Benedict, Theodore S.; and Norman, Howard W., 3,447,902.
Bishop, Virgil S.; and Shekerjian, Hart, 3,475,097.
Blumenberg, Horst H., 3,462,634.
Boczar, William J.; and Davis, William C., 3,434,018.
Bohlke, Edward H.; and Kramer, Don A., 3,487,168.
Borg, Lester W., 3,431,357.
Brewer, Russell C.; Bystricky, Joseph C.; and Miller, Lee T., 3,481,361.
Bryant, Harold D.; and Motorola, Inc.,3,478,225.
Buechel, Mel E., 3,444,426.
Byrd, Theodore E., 3,434,022.
Caprio, Gerald L., 3,482,153.
Carnes, Robert A.; and Taylor, Douglas W., 3,439,255.
Carsello, Richard D.; and Lunquist, Richard E., 3,465,294.
Christy, Harold L.; and Folk, Lee E., 3,460,238.
Clar, Philip L., 3,424,993.
Cole, William J., 3,441,854.
Cole, William J.; and Conforti, Fred J., 3,447,133.
Conforti, Fred J.; and Peterson, Lyn F., 3,471,805.
Dame, John S.; and Saltzberg, Theodore, 3,454,927.
Dogadko, Peter; and Hufton, Arthur G., 3,433,208.
Drummond, William Eric, 3,439,221.
Dunn, Thomas A., 3,444,309.
Duryee, Peter S., 3,452,219.
Ehlenberger, Gary G., 3,477,886.
Ehlenberger, Gary G., 3,477,887.
Engelbrecht, Lloyd R., 3,452,156.
Farrar, Lee M.; and Clark, Lowell E., 3,436,617.
Folk, Lee E., 3,427,080.
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C., 3,444,395.
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C., 3,445,680.
Fruehling, Gene R.; and Johnson, Jerome A., 3,431,486.
Frysztak, Jerome P., 3,426,264.
Gleason, Lawrence David, 3,482,166.
Goncharoff, Nikolai, 3,431,358.
Green, James W.; and Krahulec, Fred, 3,439,137.
Griffey, Donald E.; and Drummond, William E., 3,424,998.
Griffey, Donald E., 3,459,992.
Gunn, David L., 3,475,728.
Haenichen, John C., 3,454,846.
Haenichen, John C., 3,473,979.
Hansen, Robert B., 3,429,988.
Hansen, Robert B.; and Kramer, Don A., 3,430,096.
Hansen, Robert B., 3,437,751.
Hansen, Robert B.; and Waldschmidt, Henry C., 3,441,664.
Hansen, Robert B.; and Macintyre, Ernest C., Jr., 3,465,095.
Hargis, Robert N., 3,428,921.
Helda, Robert W.; and Scofield, Paul E., 3,427,550.
Helda, Robert W.; and Lincoln, Milan L., 3,444,441.
Helda, Robert W., 3,447,224.
Herman, Ben H., 3,487,318.
Hilbert, Francis H., 3,482,173.
Houpis, Constantinos E.; and Ivec, Martin, 3,461,399.
Huffman, Tommie R., 3,431,468.

Huffman, Tommie R.; Ehlenberger, Gary G.; and Mc Donald, Robert A., 3,442,725.
Hufton, Arthur G.; and Reddel, Robert J., 3,426,740.
Hummel, Harry J., 3,473,133.
Ivec, Martin, 3,474,410.
Ivec, Martin, 3,478,248.
Jabbar, Kamil Y., 3,458,792.
Jachim, Paul Lawrence, 3,449,513.
Jackson, Don M., Jr.; Frazee, Orville Phillip; and Waldow, Peter, 3,454,434.
Jackson, Don M., Jr., 3,461,003.
Jackson, Don M., Jr.; and Howard, Robert W., 3,473,978.
Jacobs, Paul H., 3,448,342.
Janc, Robert V., 3,470,479.
Jansen, Joseph Nicholas; and Staggs, Oscar L., 3,466,571.
Jarrad, Donald S., 3,436,616.
Keller, Ernest A., 3,422,396.
Kennedy, Howard L., 3,462,740.
Kennedy, Howard L., 3,479,532.
Knapp, Donald P., 3,446,506.
Kraft, Richard A., 3,458,653.
Kramer, Don A., 3,447,027.
Kramer, Don A., 3,479,554.
Kroll, Barney M., 3,461,406.
Lawrence, Lamonte H., 3,457,469.
Lehner, William L., 3,431,092.
Lesk, Israel A., 3,445,925.
Lesk, Israel A., 3,486,950.
Lesk, Israel Arnold, 3,484,308.
Lester, Theodore V., 3,426,240.
Lindeman, Richard J., 3,452,234.
Loeschner, Anthony; and Wolf, Robert A., 3,485,500.
Lunquist, Richard E.; and Carsello, Richard D., 3,473,152.
Lynk, Charles N., Jr.; and Kaczmarek, Ronald L., 3,483,473.
Lyon, Gary F., 3,428,820.
Macintyre, Ernest C., Jr.; and Hansen, Robert B., 3,421,043.
Magnuski, Henry, 3,453,562.
Magnuski, Henry, 3,467,783.
Magnuski, Henry; and Steel, Francis R., Jr., 3,471,646.
Massman, Albert W., 3,473,080.
Maynard, Fred B., 3,458,721.
McDonald, James A., 3,462,691.
Mika, Abraham, 3,427,715.
Miller, Edward J., Jr., 3,435,375.
Miller, Norman J., 3,467,839.
Monaco, Anthony T., 3,433,081.
Mooney, Charles W., 3,430,171.
Murphy, Earl R.; and Shelton, Philip L., 3,465,254.
Murray, Donald E.; and Seelbach, Walter C., 3,422,283.
Murray, Donald E.; and Seelbach, Walter C., 3,437,840.
Narud, Jan A.; and Seelbach, Walter C., 3,440,551.
Neapolitakis, Nicholas T.; and White, William H., Jr., 3,432,840.
Neapolitakis, Nicholas T., 3,439,184.
O'Connor, William W., 3,437,838.
Oeler, Richard C.; and Salners, Edward A., 3,486,077.
Palmer, Lawrence Merrill, 3,437,907.
Pampel, Frank L., 3,440,544.
Pawlowski, Frank L., 3,437,934.
Phillips, Alvin B., 3,476,618.
Phillips, Robert A., 3,434,035.
Phillips, Robert A., 3,434,036.
Pitzer, James G., 3,450,409.
Price, William L., 3,439,414.
Priel, Ury; and Seelbach, Walter C., 3,424,928.
Priel, Ury; Seelbach, Walter C.; and Treadway, Ronald L., 3,440,449.
Race, Richard T., 3,477,238.
Reichart, Elwood C., 3,478,276.
Rogers, Max W., 3,478,272.
Russell, Daniel D., Jr.; Jacobs, Paul H.; and Wright, Larry R., 3,469,191.
Ryan, Carl R., 3,452,289.
Saltzberg, Theodore; and Terry, Richard N., 3,445,815.
Schafft, Hugo W., 3,430,316.
Schafft, Hugo W.; and Goncharoff, Nikolai, 3,431,516.
Schafft, Hugo W., 3,487,239.
Schilb, William A., 3,424,983.
Schilb, William A.; and Alexander, Norman P., 3,449,680.
Schultz, Robert J.; and Conforti, Fred J., 3,453,521.
Seelbach, Walter C.; and Kirkpatrick, Frederick J., 3,437,831.
Seelbach, Walter C., 3,439,186.
Segerson, Eugene E., 3,423,516.
Slavik, William H., 3,426,242.
Smith, Lawrence R., 3,439,350.
Solomon, James E., 3,436,670.
Spies, Rolf E., 3,424,999.
Spies, Rolf E., 3,459,884.
Spies, Rolf E., 3,465,093.
Steel, Francis R., Jr., 3,462,554.
Tanner, De Loss J., 3,471,640.
Taylor, Douglas W., 3,427,498.
Tolliver, Donald L., 3,476,619.
Treadway, Ronald L., 3,446,994.
Treatch, James E.; and von Schwedler, Gerald C., 3,437,849.
Trombley, Robert C., 3,441,657.
Van Pul, Bernard, 3,457,123.
Voige, Raymond C., 3,446,915.
Vondran, Daniel J., 3,433,121.
Ward, James E., 3,452,162.
Waterman, Herbert C., 3,427,633.
Welter, Neil E., 3,461,452.
White, William H., Jr., 3,465,163.
White, William Herbert, Jr., 3,475,745.
Wright, Larry R., 3,471,796.

Motosacoche S.A.: *See*—
Latour, Henri, 3,447,395.

Motsavage, Vincent A.; and Kinney, James F., to Avon Products, Inc. Pomade assembly. 3,453,056, 7-1-69, Cl. 401-88.

Motsenbocker, James O.: *See*—
Moore, John M.; and Motsenbocker, James O.,3,444,284.

Mott, James D.: *See*—
Brown, Cicero C.; and Mott, James D.,3,450,204.

Mott, Lambert H. Nose cone tip. 3,427,977, 2-18-69, Cl. 102-105.

Mott, Lambert H. Spinnerette disk for extrusion of synthetic polymer fibers. 3,469,280, 9-30-69, Cl. 18-8.

Mott, Lambert H. Catalytic reaction device. 3,477,827, 11-11-69, Cl. 23-288.

Mott, Ralph B., Jr.: *See*—
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C.,3,474,977.
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C.,3,475,068.

Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C., to Reserv-A-Roll Co. Multiple tissue roll dispenser. 3,474,977, 10-28-69, Cl. 242-55.3

Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C., to Reserv-A-Roll Co. Dual compartment tissue roll dispenser. 3,475,068, 10-28-69, Cl. 312-39.

Mott, Richard C., to Honeywell Inc. Fluid amplifier. 3,429,323, 2-25-69, Cl. 137-81.5

Mott, Richard C., to Honeywell Inc. Fluid amplifier. 3,456,666, 7-22-69, Cl. 137-81.5

Mott, Richard C., to Honeywell Inc. Fluid actuated logic device. 3,463,389, 8-26-69, Cl. 235-201.

Mott, Richard H., to Case, J. I., Company. Control system for concrete placer. 3,425,356, 2-4-69, Cl. 103-49.

Mott, Vivian H. Display panel. 3,466,217, 9-9-69, Cl. 161-5.

Mott, Walter E.; and Rank, Norman E. I.D. collet chuck. 3,463,499, 8-26-69, Cl. 279-2.

Mott, William E.; and Rhodes, Donald F., to Gulf Research & Development Company. Quality control by neutron transmission. 3,437,808, 4-8-69, Cl. 250-83.1

Mott, William E.; and Rhodes, Donald F., to Gulf Research & Development Company. Neutron transmission method of analysis and apparatus therefor. 3,437,809, 4-8-69, Cl. 250-83.1

Motta, Nathaniel, to California Institute Research Foundation. Voltage and current regulated power supply circuit including self-protective features. 3,453,525, 7-1-69, Cl. 321-14.

Motter, George F., III. Dredge pipe pontoons. 3,428,011, 2-18-69, Cl. 114-43.5

Motter, George F., III. Modular seating combination. 3,466,087, 9-9-69, Cl. 297-232.

Motter, John C., Printing Press Co.: *See*—
Brodie, George R., 3,456,585.
Brodie, George R., 3,456,588.
Motter, John C., 3,459,421.

Motter, John C., to Motter, John C., Printing Press Co. Folder delivery apparatus. 3,459,421, 8-5-69, Cl. 271-64.

Motter, Theodore J., to Libbey-Owens-Ford Company. Strippable protective glass coating. 3,486,918, 12-30-69, Cl. 117-6.

Mottern, Henry O., to Air Reduction Company, Incorporated, mesne. Removal of chlorine from nitrogen or hydrogen chloride by reaction with a hydrocarbon. 3,445,533, 5-20-69, Cl. 260-660.

Motto, John W., Jr.; Fry, Warren C.; and Prunty, Ralph A., to Westinghouse Electric Corporation. Secondary slave control for series-connected gate controlled switches. 3,461,319, 8-12-69, Cl. 307-252.

Mottram, Anthony William Thomas. Generating duct for a magnetohydrodynamic electrical generator. 3,470,398, 9-30-69, Cl. 310-11.

Mottram, Anthony William Thomas, to Rolls-Royce Limited, and Central Electricity Generating Board. Generating duct for a magnetohydrodynamic electrical generator. 3,484,859, 12-16-69, Cl. 310-11.

Mottram, Anthony William Thomas; and Scott-Scott, John Lanfear, to Rolls-Royce Limited. Rotary pump. 3,442,220, 5-6-69, Cl. 103-88.

Mottram, John Ernest, to Redifon Air Trainers Limited. Visual simulation apparatus. 3,454,712, 7-8-69, Cl. 178-6.

Mottus, Edward H., to Monsanto Company. Production of polyethylene with water-modified Ziegler catalyst. 3,440,237, 4-22-69, Cl. 260-94.9

Mottus, Edward H.: *See—*
Wolf, William D.; and Mottus, Edward H.,3,429,733.

Motycka, David L., to United Aircraft Corporation. Free floating articulate ejector nozzle. 3,454,227, 7-8-69, Cl. 239-265.39

Motz, Carl H.; and Anthony, Russel W., to Lear Siegler, Inc., mesne. Automatic gear burnishing fixture. 3,461,526, 8-19-69, Cl. 29-90.

Motz, Herbert. Ball game apparatus. 3,428,322, 2-18-69, Cl. 273-123.

Motz, Joseph W., to United States of America, Commerce. Apparatus for measuring the energy and current of an accelerator electron beam including apertured incident and exit electrodes. 3,477,023, 11-4-69, Cl. 324-71.

Moughty, John J.: *See—*
Brown, Robert J.; and Moughty, John J.,3,456,280.
Brown, Robert J.; Kowalewski, John J.; and Moughty, John J.,3,434,092.

Mouissie, Bob; and Fischer, Jorg, to Paillard S.A. Apparatus for rewinding a spool. 3,421,707, 1-14-69, Cl. 242-55.12

Mouissie, Bob: *See—*
Neumeister, Martin; and Mouissie, Bob,3,458,148.

Moul, David R.: *See—*
Woods, Roger M.; and Moul, David R.,3,442,777.
Woods, Roger M.; and Moul, David R.,3,454,474.

Mould, John C.: *See—*
James, Wilbur Gerald; and Mould, John C.,3,448,446.

Moulder, Morgan M. Dissolver container having flanges at both ends to protect threaded hose couplings. 3,460,562, 8-12-69, Cl. 137-268.

Moulin, Jean, to Societe Industrielle et Commerciale des Automobiles Peugeot, and Regie Nationale des Usines Renault. Cam shaft in a heat engine or compressor and the machine resulting therefrom. 3,477,417, 11-11-69, Cl. 123-90.

Moulin, Norbert L., to Hughes Aircraft Company. Multicontact electrical connector assembly. 3,425,024, 1-28-69, Cl. 339-63.

Moulin, Norbert L., to Hughes Aircraft Company. Electrical contact attachment apparatus. 3,460,230, 8-12-69, Cl. 29-203.

Moulin, Pierre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Device for automatically positioning a floating installation by means of moorings with controlled. 3,422,783, 1-21-69, Cl. 114-144.

Moulin, Pierre, to Societe Metallurgique d'Imphy. Installation for extracting zinc from fumes rich in zinc vapour. 3,463,473, 8-26-69, Cl. 266-18.

Moulin, Pierre; Barret, Jean Pierre; and La Porte, Michel, to Institut Francais du Petrole, des Carburants et Lubrifiants. Sea navigational system for locating a floating installation or a submarine. 3,421,138, 1-7-69, Cl. 340-5.

Moulinage et Retorderie de Chavanoz, S.A.: *See—*
Nalpas, Raoul M.; and Prouvost, Pierre, 3,439,484.
Nalpas, Raoul Michel, 3,445,994.
Seguin, Pierre, 3,422,511.
Seguin, Pierre, 3,478,503.

Moulinage et Retorderie de Chavanoz,S.A.: *See—*
Seguin, Pierre, 3,472,947.

Moulinex, Societe Anonyme: *See—*
Mantelet, Jean, 3,461,933.

Moult, Roy H., to Koppers Company, Inc. Resorcinol-aldehyde resin and polyester tire cord adhesive made therefrom. 3,437,610, 4-8-69, Cl. 260-3.

Moult, Roy H.; and Hood, Richard T., to Koppers Company, Inc. Monoisocyanate condensed resorcinol-aldehyde resins. 3,431,241, 3-4-69, Cl. 260-54.

Moulton, Alexander Eric, to Moulton Developments Limited. Vehicle suspensions. 3,479,053, 11-18-69, Cl. 280-104.

Moulton, Charles L., to United States of America, Atomic Energy Commission. System for controlling the response of a photo- electric tape reader by utilizing an 'OR' gate and a dela to simulate sprocket hole signals. 3,461,305, 8-12-69, Cl. 250-219.

Moulton, Clifford H., to Allis-Chalmers Manufacturing Company. Temperature compensated transistorized power supply regulating means. 3,443,202, 5-6-69, Cl. 323-22.

Moulton, David McLeod, to Prototech Incorporated. Air-operated electrolytic cell. 3,433,675, 3-18-69, Cl. 136-86.

Moulton, David McLeod: *See—*
Juda, Walter; Moulton, David McLeod; and Novack, Robert L.,3,470,026.
Novack, Robert L.; Moulton, David McLeod; and Juda, Walter,3,471,334.

Moulton, David McL.; Novack, Robert L.; and Juda, Walter, to Prototech Incorporated. Method of operating a fuel cell using peroxide oxidant formed in -situ. 3,471,335, 10-7-69, Cl. 136-86.
Shaffer, James H.; Moulton, David M.; and Grimes, Warren R.,3,473,897.

Moulton Developments Limited: *See—*
Moulton, Alexander Eric, 3,479,053.

Moulton, James I., to Quantic Industries, Inc. Explosively actuated valve. 3,422,832, 1-21-69, Cl. 137-67.

Moulton, Stephen W., to Philco-Ford Corporation. Logic and learning/recoginition systems using bistable optical laminae. 3,422,270, 1-14-69, Cl. 250-213.

Moulton, William R., to Bolton-Emerson, Inc. Method and apparatus for pulping and defibering. 3,428,261, 2-18-69, Cl. 241-21.

Mounier, Bruce; and Lombard, Louis, said Mounier assor. to Lou Lombard, Inc. Tropic fish catcher. 3,486,264, 12-30-69, Cl. 43-4.

Mount Hope Machinery Company: *See—*
Colombo, Paul V., 3,443,593.
Racine, Paul G., 3,436,002.
Robertson, John D., 3,470,592.
Santore, Nicholas T., 3,419,944.

Mount, John W.: *See—*
Pardes, Herman I.; and Mount, John W.,3,483,556.

Mount, Ramon A.: *See—*
Harmer, David E.; Mount, Ramon A.; and Vanderbush, James J., Jr.,3,480,534.

Mount Sinai Hospital Research Foundation, Inc.: *See—*
Herbert, Victor, 3,442,819.

Mount, Wadsworth W. Method of joining tubes by driven force fit and joint produced thereby. 3,466,738, 9-16-69, Cl. 29-525.

Mountain Copper Company of California: *See—*
Parks, George A.; and Baker, Robert E., 3,476,552.

Mounteer, Carlyle A. Apparatus and technique for calibrating pressure gauges. 3,478,571, 11-18-69, Cl. 73-4.

Mountjoy, Frank B.; and Ormsby, Richard. Electrical shock device for repelling sharks. 3,484,665, 12-16-69, Cl. 317-262.

Mounts, Frank W.; and Prasada, Birendra, to Bell Telephone Laboratories, Incorporated. Multichannel television transmission system utilizing the blanking intervals of transmitted television signals as time slots to accommodate additional television signals. 3,436,471, 4-1-69, Cl. 178-6.

Mounts, Frank W.; and Prasada, Birendra, to Bell Telephone Laboratories, Incorporated. Reduced bandwidth pulse modulation scheme using dual mode encoding in selected sub-block sampling periods. 3,439,753, 4-22-69, Cl. 178-6.

Moury, Pierre, to Forges et Ateliers de Constructions Electriques de Jeumont. Electronic device for controlling the mean current supplied by a thyristor circuit. 3,447,064, 5-27-69, Cl. 321-18.

Moushegian, Harry; and St. Cyr, Augustine L., to Clean Air Controls, Inc., mesne. After burner type incinerator. 3,482,532, 12-9-69, Cl. 110-8.

Mousley, Robert W. Safety connection between vehicle foot and emergency brake systems. 3,436,126, 4-1-69, Cl. 303-2.

Moustafa, Ahmad. Oleaginous material reclamation process. 3,476,570, 11-4-69, Cl. 99-118.

Moutaud, Gilberte, to Societe le Carbone-Lorraine. Process for the manufacture of macroporous vitreous carbon. 3,446,593, 5-27-69, Cl. 23-209.1

Mouttet, Leon. Electrical connecting device for high tension wire. 3,431,533, 3-4-69, Cl. 339-14.

Movich, Richard C.; and Topp, Ronald L., to Lockheed Aircraft Corporation. Hydrogen embrittlement testing method and apparatus. 3,479,866, 11-25-69, Cl. 73--100

Movielab, Inc.: *See—*
Jeffee, Saul; and Kowalak, John, 3,428,399.
Jeffee, Saul P.; and Limnios, Gus, 3,466,995.

Mowate, Arthur Jack: *See—*
Gordon, Stuart; Mowate, Arthur Jack; Morris, James Paul; and Cunliffe, Alwyn,3,470,273.

Mowatt-Larssen, Erling, to General American Transportation Corporation. Gravity or pneumatically discharged railway hopper car. 3,458,238, 7-29-69, Cl. 302-52.

Mowatt-Larssen, Rolf, to Fruehauf Corporation. Side plate for railroad car. 3,442,225, 5-6-69, Cl. 105-409.

Mowbray, Dorian Farrar, to Lucas, Joseph, (Industries) Limited. Connector devices for axially displaceable members. 3,441,247, 4-29-69, Cl. 251-86.

Mowbray, Dorian Farrar, to Lucas, Joseph, (Industries) Limited. Speed responsive governors. 3,465,770, 9-9-69, Cl. 137-56.

Mowbray, Harry L.; and Mowbray, Lee R. Plow trailed sectional harrow. 3,474,869, 10-28-69, Cl. 172-177.

Mowbray, Lee R.: *See—*
Mowbray, Harry L.; and Mowbray, Lee R.,3,474,869.

Mowle, Michael George, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,465,678, 9-9-69, Cl. 103-2.

Mowry, Morey J. Speaker system for sound-wave amplification. 3,449,519, 6-10-69, Cl. 179-1.

Moy, David; and Young, Archie R., to Thiokol Chemical Corporation. Polyfluorometal salts of cis-difluorodiazine. 3,449,090, 6-10-69, Cl. 23-356.

Moy, Paul W., to Kewanee Oil Company. Selenium compound and its use as a brightener in a copper plating bath. 3,480,524, 11-25-69, Cl. 204-52.

Moye, Frank Houston: *See—*
Duncan, William Joseph; Fisher, Charles Frank; Moye, Frank Houston; and Piercy, Samuel Allen,3,457,341.

Moyer, Allan M.; McCarthy, William R.; and Petrell, Wilfred M., to Reserve Mining Company. Blower system for jet piercers. 3,464,506, 92-69, Cl. 175-14.
Moyer, Edward J.: *See—*
Coats, William C.; and Moyer, Edward J.,3,464,511.
Moyer, Edward J., to Caterpillar Tractor Company. Linkage for an ejector type bucket loader. 3,421,236, 1-14-69, Cl. 37-117.5
Moyer, Frederick I. Safety control apparatus. 3,473,549, 10-21-69, Cl. 137-209.
Moyer, Hallard C., to Sinclair Research, Inc. Wax compositions producing high gloss, smooth coatings. 3,476,700, 11-4-69, Cl. 260-28.5
Moyer, James D.; and Lang, Douglas C., to North American Rockwell Corporation, mesne. High-speed knitting machine. 3,421,344, 1-14-69, Cl. 66-55.
Moyer, James D.; and Spittler, Richard F., to North American Rockwell Corporation, mesne. Bobbin readying means for automatic winders. 3,471,101, 10-7-69, Cl. 242-35.6
Moyer, Joseph K.; and Levinn, Robert N., to American Thermostat Corporation. Thermostat assembly. 3,421,131, 1-7-69, Cl. 337-338.
Moyer, Joseph K.: *See—*
Levinn, Robert N.; Moyer, Joseph K.; and Rose, Melvin J.,3,451,029.
Moyer, Oscar E., to Universal Manufacturing Corporation. Machine for carrying metal panels past welding stations. 3,475,579, 10-28-69, Cl. 219-80.
Moyer, Paul H. Dental appliance. 3,435,477, 4-1-69, Cl. 15-22.
Moyer, Paul H., to E-Z Mount Corporation. Christmas tree holder. 3,480,241, 11-25-69, Cl. 248-44.
Moyer, Ralph H.; and Taylor, Grady E. Acoustic and purifying exhaust muffler. 3,477,826, 11-11-69, Cl. 23-288.
Moyer, Richard E. Cloth retaining flange for dye beam. 3,465,554, 9-9-69, Cl. 68-198.
Moyer, Robert Franklin, to Elastic Die Engineering Co. Metal forming die elements. 3,446,107, 5-27-69, Cl. 83-658.
Moyer, Robert G.: *See—*
Peterson, Gordon E.; and Moyer, Robert G.,3,438,578.
Moyer, Wendell W., Jr.; and Molenda, Wayne E., to Daubert Chemical Company. Bactericidal compositions containing 6-acetoxy-2, 4-dimethyl-m-dioxane and a formaldehyde donor and products containing such. 3,469,002, 9-23-69, Cl. 424-27.
Moyer, Wendell W., Jr.: *See—*
Anyos, Tom; and Moyer, Wendell W., Jr.,3,423,483.
Nadherny, Russell J.; and Moyer, Wendell W., Jr.,3,430,816.
Moyer, William H., Jr.: *See—*
Schoolcraft, John L.; Aubrey, William M., Jr.; and Moyer, William H., Jr.,3,456,792.
Moyer, Xopher W.: *See—*
Johnson, John C., Jr.; Madey, Jesse M.; Moyer, Xopher W.; and McCarthy, Dennis K.,3,460,397.
Moyes, Gordon Haswell, to Girling Limited. Connecting member, E.G., for pipes or the like. 3,427,807, 2-18-69, Cl. 60-54.6
Moylan, Joseph J. Gas burner. 3,425,782, 2-4-69, Cl. 431-187.
Moynes, Frank W. Expandable arbor. 3,430,882, 3-4-69, Cl. 242-72.
Moynihan, Robert E., to Du Pont de Nemours, E. I., and Company. Glass-polyurethane-polyvinylbutyral- polyurethane-glass laminate. 3,458,388, 7-29-69, Cl. 161-165.
Moyroud, Louis M.: *See—*
Higonnet, Rene A.; and Moyroud, Louis M.,3,433,404.
Moyroud, Louis M. Photographic composition apparatus. 3,440,937, 4-29-69, Cl. 95-4.5
Moyroud, Louis M.; and Higonnet, Rene A. Type composing apparatus. 3,422,736, 1-21-69, Cl. 95-4.5
Moyse, James Albert: *See—*
Jones, Gwilym Thomas; Moyse, James Albert; and Scott, Gerald,3,455,734.
Moyse, James Albert; and Sagar, Harold, to Imperial Chemical Industries Limited. Treatment of carpets and pile fabrics. 3,433,666, 3-18-69, Cl. 117-139.5
Moyse, Norman E. Ceramic drill. 3,442,161, 5-6-69, Cl. 77-66.
Mozdzanowski, Joachim V. B., to Bopparder Maschinenbaugesellschaft m.b.H. Double vibration roller. 3,435,741, 4-1-69, Cl. 94-50.
Mozer, Donald T.: *See—*
Aronstein, Jesse; Mozer, Donald T.; and Poloncic, Stanley J.,3,426,883.
Mozer, Forrest S.: *See—*
Elliott, David D.; and Mozer, Forrest S.,3,473,021.
Mozhaev, Arkady Ivanovich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Mozolf, Casimir. Male contraceptive. 3,463,141, 8-26-69, Cl. 128-1.
Mpakarakes, Thomas J. Retractable fence. 3,471,129, 10-7-69, Cl. 256-24.
MPB Corporation: *See—*
Brehm, Paul Donald; and Carter, Raymond H., 3,421,224.
Mr. Christmas, Inc.: *See—*
Boisse, Ronald J., 3,484,329.
Goodridge, Walter R., 3,477,671.
Goodridge, Walter R., 3,478,652.
Mr. Hanger, Inc.: *See—*
Bobrow, Lucien, 3,478,943.
Mr. Robot, Inc.: *See—*
Cirino, John F.; and Brenner, Charles, 3,431,580.
Mrlik, Jerry R.: *See—*
Hall, James E.; Mrlik, Jerry R.; Musser, James G.; and Winchell, Frank J.,3,455,594.
Winchell, Frank J.; and Mrlik, Jerry R.,3,425,215.
Mrozik, Helmut: *See—*
Hirschmann, Ralph F.; and Mrozik, Helmut,3,462,464.
Mrsny, Ormal A. Truck interior lighting system. 3,457,396, 7-22-69, Cl. 240-7.1
Mrstik, Adolph V.; Schoen, Walter F.; and Voelz, Frederick L., to Sinclair Research, Inc. Diesel fuel composition. 3,481,716, 12-2-69, Cl. 44-68.
MRX Corporation: *See—*
David, Charles W.; and Munson, Eugena A., 3,481,083.
MS Industries, Inc.: *See—*
Bockenstette, Kenneth R., 3,463,345.
MSA Research Corp.: *See—*
McGoff, Miles J.; Mausteller, John W.; and Staub, Charles H., 3,443,906.
MSE Holdings Limited: *See—*
Lovegrove, Brian Walter, 3,422,333.
MSO Maschinen- und Schleifmittelwerke AG: *See—*
Storck, Karl, 3,423,883.
M.S.V., Inc.: *See—*
Mattern, Paul D., 3,423,835.
M&T Chemicals Inc.: *See—*
Beyer, Stanley J., 3,455,014.
Davies, Alwyn G., 3,442,947.
Gloskey, Carl R., 3,485,794.
Natoli, Joseph G., 3,432,531.
Passal, Frank, 3,432,509.
Passal, Frank, 3,449,398.
Remes, Nathaniel L.; and Ventura, John J., 3,432,534.
Mt. Sinai Hospital of Cleveland, The: *See—*
Gans, Jerome A., 3,455,304.
Mt. Vernon Die Casting Corporation: *See—*
Nyselius, Gustav, 3,447,593.
M. T. D. Company, The: *See—*
Plamper, Gunter F., 3,461,654.
MTS Systems Corporation: *See—*
Bussenberger, Max E.; Anderson, Dennis H.; and Gram, Martin M., 3,442,120.
Mucciante, Louis L.: *See—*
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L.,3,445,955.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L.,3,448,540.
Mucciarone, Rocco H.: *See—*
Budzyna, Joseph M.; and Mucciarone, Rocco H.,3,444,904.
Muchnick, Jacob. Strip severing and stacking device and method. 3,457,814, 7-29-69, Cl. 83-29.
Muchow, Gordon M., to Owens-Illinois, Inc.Glass or metal surfaces sealed by SiO_2-Al_2O_3-M_2O compositions and method of making. 3,473,999, 10-21-69, Cl. 161-193.
Muck, Eduard: *See—*
Krcal, Zdenek; Muck, Eduard; and Krcmar, Jaroslav,3,477,288.
Muckleston, Ronald T. Key holder. 3,430,470, 3-4-69, Cl. 70-459.
Mudge, Clarence T., to Sunset Fuel Company. Mobile crane. 3,432,145, 3-11-69, Cl. 254-145.
Mudge, John H.: *See—*
Burkart, Alan R.; and Mudge, John H.,3,477,494.
Mudon, Thomas J. Protractor for a folding rule. 3,431,653, 3-11-69, Cl. 33-105.
Mudrak, Anton; and Zelek, John A., to Kewanee Oil Company. Direct azo dyes for cellulose fibers. 3,487,067, 12-30-69, Cl. 260-173.
Mudrak, Anton: *See—*
Towle, Jack L.; and Mudrak, Anton,3,441,555.
Mudrinich, Milan. Infant's pacifier with magnetic nipple. 3,455,292, 7-15-69, Cl. 128-1.4
Muehl, Herman D. Tank valve apparatus. 3,420,495, 1-7-69, Cl. 251-144.
Muehlberg, Paul E.: *See—*
Harriman, Lester W.; Muehlberg, Paul E.; and Teumac, Fred N.,3,438,811.
Muehle, Manfred, to Heinz Schurmann & Co., Firma. Resiliently secured trim strip. 3,445,978, 5-27-69, Cl. 52-717.
Muehlenkamp, V. Jack: *See—*
Stone, Robert W.; and Stone, Benjamin G., 3,424,260.
Muehlhausen George L. Self-supporting golf bag. 3,465,993, 9-9-69, Cl. 248-96.

327-709 O-LT - 71 - pt. 1 - 70

Muehling, Charles Lloyd; and Wilkinson, Harlen Edgar, to American Can Company. Easy-open blister container. 3,483,964, 12-16-69, Cl. 206-46.
Mueller, Bo: *See—*
Lindholm, Ingemar; and Mueller, Bo,3,437,526.
Mueller Brass Co.: *See—*
Gray, Robert A., Jr.; and Shuler, James F., 3,442,106.
Inch, John C., 3,437,310.
Mueller, Bruno: *See—*
Miller, Roger M.; Mueller, Bruno; and Sorochan, Walter G.,3,446,884.
Mueller Co.: *See—*
Adams, Philip N., 3,467,943.
Leopold, Wilbur R., Jr.; Smith, John J.; and Floren, Carl E., 3,460,553.
Leopold, Wilbur R., Jr.; Floren, Carl E.; and Ammann, Paul R., 3,472,532.
Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,439,947.
Mueller, Frank H.; Leopold, Wilbur R., Jr.; and Smith, John J., 3,437,106.
Mueller, Frank H., 3,467,356.
Mueller, Frank H.; Hauffe, William L.; and Hood, William A., 3,480,042.
Smith, John J., 3,474,378.
Mueller, Curt: *See—*
Altermatt, Ruedi; and Mueller, Curt,3,428,622.
Entschel, Roland; Mueller, Curt; and Wehril, Walter,3,457,260.
Entschel, Roland; Mueller, Curt; and Wehrli, Walter,3,459,728.
Mueller, Curt; and Senn, Otto, to Sandoz, Ltd, a/k/a Sandoz A.G.Monazo dyestuffs containing 4-hydroxy-6-methyl and 6-hydrox-4-methyl-pyrazolo[3,4-b]pyridine groups. 3,420,813, 1-7-69, Cl. 260-156.
Mueller, David Charles, to American Can Company. Box. 3,469,765, 9-30-69, Cl. 229-33.
Mueller, Edward E., to SCM Corporation, mesne. Low temperature temporary protective ceramic coating compositions for metals, and resulting coated metal articles. 3,454,433, 7-8-69, Cl. 148-22.
Mueller, Edward E., to SCM Corporation, mesne. High temperature readily removable protective ceramic coating compositions for metals, and resulting coated metal articles. 3,459,601, 8-5-69, Cl. 148-22.
Mueller, Edward E., to SCM Corporation, mesne. High temperature temporary protective ceramic coating compositions for metals, and resulting coated metal articles. 3,459,602, 8-5-69, Cl. 148-22.
Mueller, Edward G.: *See—*
Wyatt, William Kirk; Mueller, Edward G.; and Hebrank, William H.,3,478,399.
Mueller, Edwin: *See—*
Lieser, Ernst; Simon, Horst; and Mueller, Edwin,3,420,154.
Lieser, Ernst; Simon, Horst; Mueller, Edwin; and Steisslinger, Kurt,3,433,143.
Mueller, Ernest E., to Ozone Metal Products Corp. Fail-safe piston and cylinder arrangement. 3,448,662, 6-10-69, Cl. 91-415.
Mueller, Ernest R.: *See—*
Terry, Jack H.; and Mueller, Ernest R.,3,436,234.
Mueller, Erwin: *See—*
Dinges, Karl; and Mueller, Erwin,3,467,614.
Mueller, Francis Edward, to International Business Machines Corporation. Wideband AGC circuit. 3,448,292, 6-3-69, Cl. 307-237.
Mueller, Francis X., Jr.: *See—*
Hsieh, Henry L.; and Mueller, Francis X., Jr.,3,457,197.
Mueller, Frank H., to Mueller Co. Rotary plug valve. 3,467,356, 9-16-69, Cl. 251-164.
Mueller, Frank H.; Hauffe, William L.; and Hood, William A., to Mueller Co. O-ring seal seating arrangement for rotary plug valve. 3,480,042, 11-25-69, Cl. 137-625.22
Mueller, Frank H.; Leopold, Wilbur R., Jr.; and Smith, John J., to Mueller Co. Ball valves. 3,437,106, 4-8-69, Cl. 137-382.
Mueller, Frederick L.: *See—*
Annable, Weldon G.; and Mueller, Frederick L.,3,442,630.
Peter, Albin; and Mueller, Fred,3,447,886.
Mueller, Gerd, to Varta Aktiengesellschaft. Process and pump for circulating fluids or gases. 3,468,713, 9-23-69, Cl. 136-86.
Mueller, Gerhard: *See—*
Rausch, Werner; Hansen, Hans; and Mueller, Gerhard,3,467,589.
Wilhelm, Hans; Mueller, Gerhard; Pflueger, Richard; and Doerfel, Helmut,3,458,474.
Mueller, Hans G. Combined pen and cigarette lighter. 3,429,644, 2-25-69, Cl. 401-195.
Mueller, Hans, to Process Engineering Co., S.A. Mixer. 3,460,810, 8-12-9, Cl. 259-96.
Mueller, Hans: *See—*
Schmitt, Karl Otto; Hansen, Guenter; and Mueller, Hans,3,449,067.
Mueller, Herbert H.: *See—*
Holt, Ernest Knowlton; Mueller, Herbert H.; and Urban, Warren J.,3,429,136.
Mueller, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Isomerization of butadiene polymers. 3,437,649, 4-8-69, Cl. 260-94.7
Mueller, Howard C.: *See—*
Ornstein, Jacob L.; and Mueller, Howard C.,3,479,732.
Mueller, Jean; and Bucher, Ernst, to Ciba Limited. Superconducting device. 3,459,543, 8-5-69, Cl. 75-150.
Mueller, Johannes, to United States of America, Army. Field mesh electrode for improved target in image and storage tubes. 3,454,819, 7-8-69, Cl. 315-11.
Mueller, Johannes, to United States of America, Army. Image orthicon tube with improved field mesh electrode for prevention of scanning beam bending and of moire pattern production. 3,454,820, 7-8-69, Cl. 315-11.
Mueller, Johannes: *See—*
Vester, Frederic; Majer, Heinz; and Mueller, Johannes,3,472,831.
Mueller, John A.; and Mark, Stanley D., Jr., to Carborundum Company, The. Process of conditioning metal. 3,474,576, 10-28-69, Cl. 51-322.
Mueller, John Burk, to St. Regis Paper Company. Coil package. 3,446,419, 5-27-69, Cl. 229-40.
Mueller, John H., to Teledyne, Inc., mesne. Multiple ported balanced slide valves. 3,457,957, 7-29-69, Cl. 137-625.68
Mueller, John H.: *See—*
Irti, Ernest; and Mueller, John H.,3,432,141.
Mueller, John L., to Sparton Corporation. Tire mounting and inflating system. 3,461,938, 8-19-69, Cl. 157-1.1
Mueller, Joseph F. French cutting die with removable insert. 3,421,435, 1-14-69, Cl. 101-28.
Mueller, Joseph F. Die techniques. 3,470,773, 10-7-69, Cl. 76-107.
Mueller, Klaus P.: *See—*
Berleyoung, Walter J.; Kreuter, Kenneth G.; and Mueller, Klaus P.,3,433,413.
Mueller, Lester A.: *See—*
Dedricks, Alvin N.; and Mueller, Lester A.,3,430,452.
Mueller, Louis F., Jr.: *See—*
Solomon, Raymond; and Mueller, Louis F., Jr.,3,469,207.
Mueller, Martin, to Lily-Tulip Cup Corporation, mesne. Apparatus for flowing pressure-flowable food products into a container. 3,420,268, 1-7-69, Cl. 137-604.
Mueller, Martin, to Lily-Tulip Cup Corporation, mesne. Dispensing container assembly. 3,432,027, 3-11-69, Cl. 206-56.
Mueller, Martin, to Owens-Illinois, Inc., mesne. Apparatus for and method of packaging liquid. 3,440,794, 4-29-69, Cl. 53-37.
Mueller, Martin; and Byrd, Carl, to Owens-Illinois, Inc., mesne. Apparatus for handling containers. 3,472,403, 10-14-69, Cl. 214-307.
Mueller, Oscar G., to Waldorf Paper Products Company. Dispenser valves. 3,433,456, 3-18-69, Cl. 251-339.
Mueller, Paul, Company: *See—*
Mueller, Paul, 3,458,917.
Mueller, Paul, to Mueller, Paul, Company. Method of fabricating metal sheets with fluid passages. 3,458,917, 8-5-69, Cl. 29-157.3
Mueller, Peter F.; and Parrent, George B., Jr., to Technical Operations, Incorporated. Superimposed photostorage and separation. 3,425,770, 2-4-69, Cl. 350-162.
Mueller, Reinhold: *See—*
Fairley, Richard K.; and Mueller, Reinhold,3,463,963.
Mueller, Robert J., to General Electric Company. Fluoroscopic X-ray tube mounting for a tiltable X-ray table to prevent misalignment. 3,420,997, 1-7-69, Cl. 250-57.
Mueller, Robert S., to Eaton Yale & Towne, Inc. Vehicle speed control mechanism. 3,437,167, 4-8-69, Cl. 180-105.
Mueller, Robert S., to Eaton Yale & Towne, Inc. Throttle and brake control apparatus. 3,437,182, 4-8-69, Cl. 192-3.
Mueller, Robert S., to Eaton Yale & Towne, Inc. Speed indicator arrangement for vehicle speed governor. 3,464,275, 9-2-69, Cl. 73-491.
Mueller, Robert S.; and Uitvlugt, Martin W., to Eaton Yale & Towne, Inc. Speed control apparatus for an automotive vehicle. 3,481,422, 12-2-69, Cl. 180-108.
Mueller, Rolf K., to Litton Systems, Inc., mesne. Photometer and method utilizing a semiconductor containing a grain boundary. 3,449,579, 6-10-69, Cl. 250-211.
Mueller, Rudolf: *See—*
Frey, Christoph; Hecker, August; Mueller, Rudolf; and Surber, Werner,3,472,844.
Mueller, Theodore, to Emerson Electric Co. Flexible duct coupling for air diffusing system. 3,428,341, 2-18-69, Cl. 285-158.
Mueller, Walter; Alfs, Hugo; and von der Lippe, Robert, to Maschinenfabrik Moenninghoff. Longwall miner having cutter guided along mine face, curved corner section and side face. 3,433,529, 3-18-69, Cl. 229-1.
Mueller Welt Contact Lenses, Inc.: *See—*
Schpak, Fred; Breger, Joseph L.; and Warner, Robert H., 3,423,886.
Mueller, Werner J.; and Wolff, Norman, to Sperry Rand Corporation. Multiple mode motor control with a constant tension mode and a constant horsepower mode. 3,476,995, 11-4-69, Cl. 318-6.
Mueller, Werner, to Contraves AG. Movable display arrangement. 3,486,258, 12-30-69, Cl. 40-28.
Mueller, Wilfred G.: *See—*
Austin, Lee K.; and Mueller, Wilfred G.,3,443,426.

Mueller, Willy: *See—*
Ronco, Karl; and Mueller, Willy,3,438,966.
Mueller, Wolfgang F.: *See—*
Hazel, Herbert K.; and Mueller, Wolfgang F.,3,460,245.
Mueller, Wolfgang H.; and Oswald, Alexis A., to Esso Research and Engineering Company. Polythioethers derived from acetylenic compounds and H_2S. 3,466,336, 9-9-69, Cl. 260-609.
Mueller, Wolfgang H.; and Oswald, Alexis A., to Esso Research and Engineering Company. Monoadducts of alkylthiophosphoric acids and process for preparing same. 3,483,278, 12-9-69, Cl. 260-956.
Muench, Charles A.; and Penniman, Allen D., Jr., to Forecast, Inc. Wheel adaptor assembly. 3,459,455, 8-5-69, Cl. 301-9.
Muench, Walter W., to North American Rockwell Corporation, mesne. Method for manufacturing wheel covers. 3,481,293, 12-2-69, Cl. 113-116.
Muenchinger, William O.; and Hull, James W., to Morton International, Inc. Epoxy coated substrate and method of making same. 3,471,312, 10-7-69, Cl. 117-38.
Muenchow, Herbert O.; Chamberlain, Harry V.; Chase, Wayne L.; and Bucki, Joseph, to Atomic Power Development Associates, Inc. Device for testing a body of fluid. 3,442,118, 5-6-69, Cl. 73-61.
Muenger, James R., to Texaco Inc. Distributed heat exchange fractionating column. 3,444,697, 5-20-69, Cl. 62-42.
Muenger, James R., to Texaco Inc. Helically distributed heat exchange fractionating column. 3,461,677, 8-19-69, Cl. 62-42.
Muenow, Richard A.; and Plice, Gerald W., to James Electronics, Inc. Image conversion cathode ray tube with piezoelectric face element provided with rigidifying means. 3,431,462, 3-4-69, Cl. 315-55.
Muessel, Dan C., to American Metal Climax, Inc. Breakaway for a sliding closure. 3,466,805, 9-16-69, Cl. 49-141.
Muetterties, Earl L., to Du Pont de Nemours, E. I., and Company. Acid and salts of B_{2n} $H_{1N}{}^2H$ ion. 3,446,604, 5-27-69, Cl. 23-358.
Muffoletto, Carl Verne. Schlieren and strain birefringence system. 3,468,610, 9-23-69, Cl. 356-129.
Mufich, Frank J.: *See—*
Kallel, Allen; and Mufich, Frank J.,3,423,065.
Muftic, Mahmoud: *See—*
Peissker, Horst; Kutzsche, Armin; and Muftic, Mahmoud,3,457,262.
Mugele, Kurt Willy, to Siemens Aktiengesellschaft. Method and apparatus for pumping with a liquid-ring in series with a jet ejector. 3,481,529, 12-2-69, Cl. 230-45.
Muger, Martial Henri Mathias, to Compagnie des Compteurs. Correcting device for gaseous fluid meters. 3,442,128, 5-6-69, Cl. 73-345.
Muger, Martial Henri Mathias, to Compagnie des Compteurs. Turbine measurer for metering fluid volumes. 3,448,614, 6-10-69, Cl. 73-230.
Muger, Martial Henri Mathias, to Compagnie des Computeurs. Safety device for correcting instruments for gaseous fluid meter of the plunging bell-jar type. 3,456,507, 7-22-69, Cl. 73-345.
Mugford, Clifton C.: *See—*
Culbert, Robert M.; and Mugford, Clifton C.,3,436,500.
Muggleton, Gerald D., to Combined Locks Paper Co. Apparatus for coating a traveling web of paper. 3,485,209, 12-23-69, Cl. 118-4.4
Muggley, Reginald F.: *See—*
Forster, Albert P., 3,459,268.
Muhlbauer, Herbert G., to Jefferson Chemical Company, Inc. Process for producing n-methoxy ethyl morpholine substantially free of beta, beta diaminodiethyl ether. 3,420,828, 1-7-69, Cl. 260-247.7
Muhlberg, Erhard, to Maschinenfabrik Augsburg-Nurnberg A.G. Method for burning fuel in a diesel engine. 3,473,520, 10-21-69, Cl. 123-32.
Muhlberger, Robert A.; and Lamby, Edward J., to Schenectady Chemicals, Inc. Preparation of isocyanate modified resorcinol formaldehyde resin. 3,433,768, 3-18-69, Cl. 260-54.
Muhlen, Gert V. D.: *See—*
Rathke, Wolfgang; Szabo, Lyubomir; and Muhlen, Gert V. D.,3,464,179.
Muhlenbruch, Gilbert R.: *See—*
Heilweil, Melvin F.; Maley, Gerald A.; Muhlenbruch, Gilbert R.; and Ogden, Stewart,3,459,926.
Muhler, Joseph C., to Indiana University Foundation. Indium fluorozirconate, InZrF. 3,440,004, 4-22-69, Cl. 23-51.
Muhler, Joseph C., to Indiana University Foundation. Zirconium hexafluorogermanate $[Zr(GeF_6)_2]$ and zirconyl hexafluorogermanate $[ZrOGeF_6]$. 3,441,371, 4-29-69, Cl. 23-51.
Muhler, Joseph C., to Indiana University Foundation. Stable stannous fluoride composition. 3,445,567, 5-20-69, Cl. 424-52.
Muhler, Joseph C. Indiana University Foundation Dentifrice compositions comprising zirconium silicate of particle size. 3,450,813, 6-17-69, Cl. 424-52.
Muhler, Joseph C., to Indiana University Foundation. Process for producing a stabilized ready-to-eat breakfast cereal product. 3,467,529, 9-16-69, Cl. 99-153.
Muijderman, Everhardus Albertus, to U.S. Philips Corporation, mesne. Bearing element. 3,467,449, 9-16-69, Cl. 308-9.
Muir, Douglas William Ballantyne, to Molins Organisation Limited, The. Flux sensitive transducer with tuned resonant circuit. 3,435,443, 3-25-69, Cl. 340-174.1
Muir, Douglas William Ballantyne; and Hider, Philip Frank, to Molins Organisation Limited, The. Optical inspection devices employing light- conducting fibers. 3,453,440, 7-1-69, Cl. 250-227.
Muir, Douglas William Ballantyne: *See—*
Williamson, David Theodore Nelson; and Muir, Douglas William Ballantyne,3,437,093.
Muirhead & Co., Limited: *See—*
Bell, John, 3,425,384.
Bell, John, 3,452,705.
Hoer, Kenneth George, 3,449,512.
Parrott, Edward James, 3,427,531.
Sutherland, William Drummond, 3,433,075.
Muirhead, John F., Jr.; and Pekarek, Joseph L., to Gulf Research & Development Company. Method of consolidating incompetent formations. 3,454,959, 7-8-69, Cl. 166-288.
Muirhead, Raymond A.: *See—*
Bildsoe, Jorgen S.; Krammer, Robert; and Muirhead, Raymond A.,3,438,338.
Mukai, Hiroshi: *See—*
Hatta, Hiroshi; and Mukai, Hiroshi,3,470,227.
Mukai, Noboru: *See—*
Kinoshita, Shukuo; and Mukai, Noboru,3,436,206.
Mukai, Takeo. Device for machining and treating the inner walls of a tubular body. 3,457,895, 7-29-69, Cl. 118-72.
Mukai, Tsuneo: *See—*
Nikai, Sei; Kojima, Yu; Mukai, Tsuneo; and Hirata, Shigeru,3,485,384.
Mukaihara, Kozi: *See—*
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro,3,425,359.
Mulaskey, Bernard F., to Chevron Research Company. Hydrocracking process employing a catalyst composite containing silica and a noble metal component. 3,453,204, 7-1-69, Cl. 208-111.
Mulaskey, Bernard F., to Chevron Research Company. Hydrogenation of hydrocarbons with mixed tin and nickel catalyst. 3,480,531, 11-25-69, Cl. 208-143.
Mulaskey, Bernard F., to Chevron Research Company. Controlling aromatic content of the product during hydrocracking. 3,487,007, 12-30-69, Cl. 208-111.
Mulaskey, Bernard F.: *See—*
Kozlowski, Robert H.; and Mulaskey, Bernard F.,3,453,217.
Lindquist, Robert H.; and Mulaskey, Bernard F.,3,425,666.
Mulay, Salvatore S., to Tri-Point Industries, Inc. Fluorocarbon sound record. 3,469,848, 9-30-69, Cl. 274-41.
Mulcahy, John V., to Unitek Corporation. Method for solder reflow connection of insulated conductors. 3,444,347, 5-13-69, Cl. 219-85.
Mulch, Hans, to Leitz, Ernst, GmbH. Automatic slide projector with built in timer and automatic magazine returning mechanism. 3,464,767, 9-2-69, Cl. 353-116.
Mulconrey, John F.: *See—*
Carlson, Robert M.; Jasorka, Larry P.; Mulconrey, John F.; and Trimble, Glenn A.,3,458,931.
Mulder, Jan, to U.S. Philips Corporation, mesne. Cold-gas refrigeration apparatus. 3,473,341, 10-21-69, Cl. 62-6.
Mulder, Jelke H., to Koster, Albert Koster, Hendrik M. Koster, Machiel H., and Vreeling, John J.Hand-propelled child's vehicle. 3,450,416, 6-17-69, Cl. 280-211.
Mulder, Tjebbo Jakob, to Lecifruit N.V. Method of coating fruits and vegetables with a thin film of lecithin and method of making lecithin emulsion for said purpose. 3,451,826, 6-24-69, Cl. 99-168.
Mulders, Julien: *See—*
Ryckaert, Andre; and Mulders, Julien,3,479,414.
Mulford, Charles O., Jr.; and Normington, Peter J. C., to Bendix Corporation, The. Negative resistance semiconductor device. 3,461,323, 8-12-69, Cl. 307-302.
Mulford, Charles T.: *See—*
Belk, Wilber C.; Willis, Beuford N.; and Mulford, Charles T.,3,448,845.
Mulgrave, Thomas P.: *See—*
Ivanovic, Peter; and Mulgrave, Thomas P.,3,454,243.
Mulhead Engineering Company Limited, The: *See—*
Bridge, Ernest W., 3,438,478.
Mulholland, Lawrence K.; Kersteter, Ammon W.; and Baste, Adolph C. A., to Wiley Manufacturing Company. Lighter construction. 3,448,711, 6-10-69, Cl. 114-26.
Mulholland, Lyle E.: *See—*
Beals, George C.; Ogilvie, Kendal M.; and Mulholland, Lyle E.,3,436,068.
Mulitz, Earl, to Pico Safe Stairs Co. Railings, ladders, trusses and similar type articles. 3,420,504, 1-7-69, Cl. 256-22.
Mulkins, Roy H. Offset blade carpet and linoleum knife. 3,451,132, 6-24-69, Cl. 30-317.
Mull, Howard L. Steel guitar, steels and method. 3,457,822, 7-29-69, Cl. 84-319.

Mull, Leonard E. Portable automatic animal waterer with quick discharge mechanism. 3,477,408, 11-11-69, Cl. 119-78.
Mull, Robert Paul, to Ciba Corporation. Cinnamyloxy guanidines and the salts thereof. 3,459,792, 8-5-69, Cl. 260-501.12
Mull, Robert Paul; and Mizzoni, Renat Herbert, to Ciba Corporation. N-alkenyl-3-aralkyl-alkyleneimines. 3,423,406, 1-21-69, Cl. 260-240.
Mullan, Joseph. Container. 3,465,921, 9-9-69, Cl. 222-212.
Mullaney, Frank W.: *See—*
Morabito, Salvatore L.; and Mullaney, Frank W.,3,436,004.
Mullaney, John J., to Multronics, Inc. Broadband tower antenna system. 3,482,249, 12-2-69, Cl. 343-750.
Mullen, Edward K.; and Carter, Leewood C., to Book Covers, Incorporated. Book cover board structures and apparatus and method for making and coating the same. 3,476,406, 11-4-69, Cl. 281-29.
Mullen, George Clarence, Jr., to Standard Oil Company (Indiana). Method for the continuous preparation of an aqueous ammoniated phosphate composition. 3,459,499, 8-5-69, Cl. 23-107.
Mullen, James William; and de Bos, Leo Tan, to Dymo Industries, Inc. Apparatus for producing contrast color embossments in plastics. 3,433,152, 3-18-69, Cl. 101-28.
Mullen, Jerrold L.: *See—*
Sheldrake, Leonard J.; and Mullen, Jerrold L.,3,449,654.
Mullen, John J., Associates, Inc.: *See—*
Lafont, Leo C.; and Kerr, Emory L., 3,449,801.
Mullen, Robert D. Automatic circuit fault tester for multiple circuits including means responsive to blank terminals at ends of the circuits under test. 3,430,135, 2-25-69, Cl. 324-51.
Mullen, William T. Caulking strip. 3,446,340, 5-27-69, Cl. 206-46.
Muller, Adolf. Adjustable stopcock. 3,426,795, 2-11-69, Cl. 137-614.17
Muller, Albert C., to United States of America, Atomic Energy Commission. Controlled defect coloration dosimeter. 3,453,430, 7-1-69, Cl. 250-83.
Muller, Alf John: *See—*
Muller, Josef; Sorsche, Joachim; and Muller, Alf John,3,473,620.
Muller, Alfred H., to Daimler-Benz Aktiengesellschaft. Hydropneumatic spring system for vehicles. 3,458,181, 7-29-69, Cl. 267-64.
Muller, Alfred H.: *See—*
Nallinger, Friedrich K. H.; Muller, Alfred H.; Wirlitsch, Roland; and Hohn, Helmut,3,420,327.
Muller, Alfred; and Wilhelm, Manfred, to Siemens Aktiengesellschaft. Semiconductor crystals of fibrous structure and method of their manufacture. 3,442,823, 5-6-69, Cl. 252-518.
Muller, Anton, to Eisen- und Drahtwerk Erlau AG. Tightening lever for the side chain of an antiskid or tire protective chain. 3,422,872, 1-21-69, Cl. 152-217.
Muller, Anton: *See—*
Schurle, Werner; Muller, Anton; and Witzel, Gunter,3,429,353.
Muller, Arno, to Gesellschaft fur Kernforschung m.b.H. Method and device for the refuelling of nuclear reactors. 3,428,522, 2-18-69, Cl. 176-31.
Muller, Arno; and Wagner, Gunter. Process for preparing sand cores using CO_2 cured silicate binders. 3,442,665, 5-6-69, Cl. 106-38.35
Muller, Bert. Paper roll dispenser. 3,477,656, 11-11-69, Cl. 242-55.2
Muller, Don M.; Whittle, Lavar E.; and Chartrand, Victor, to Universal Testproducts, Inc. Engine performance analyzer. 3,485,093, 12-23-69, Cl. 73-116.
Muller, Eckart: *See—*
Gross, Hans-Werner; Schwedler, Gottfried; and Muller, Eckart,3,437,575.
Muller, Eckart. Process for washing filter cakes. 3,433,816, 3-18-69, Cl. 260-419.
Muller, Ernest. Indirect driven propeller. 3,422,905, 1-21-69, Cl. 170-173.
Muller, Ernst Willi: *See—*
Wilke, Gunther; Muller, Ernst Willi; Kroner, Michael; Heimbach, Paul; and Breil, Heinz,3,450,732.
Muller, Ernst W.; Zoche, Gunter; and Korte, Friedrich W.A.G.K., to Shell Oil Company. Process for the production of aluminum alkyls. 3,475,477, 10-28-69, Cl. 260-448.
Muller, Erwin Alfons: *See—*
Honig, Hans Ludwig; Muller, Erwin Alfons; Kuhnel, Werner; Kolb, Gunter; and Elzer, Paul,3,445,438.
Ippen, Jakob; and Muller, Erwin Alfons,3,429,769.
Dieterich, Dieter; Muller, Erwin; and Bayer, Otto,3,480,592.
Fischer, Josef; and Muller, Erwin,3,421,127.
Heydkamp, Wolfgang; Bayer, Otto; and Muller, Erwin,3,471,449.
Heydkamp, Wolfgang; Muller, Erwin; and Wilms, Hugo,3,474,126.
Kallert, Wilhelm; and Muller, Erwin,3,475,200.
Kolb, Gunther; and Muller, Erwin,3,474,129.
Muller, Erwin; and Dieterich, Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Urethane methylol ethers containing hydroxyl groups. 3,459,789, 8-5-69, Cl. 260-482.
Muller, Erwin; and Dinges, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of phenols containing unsaturated groups. 3,433,835, 3-18-69, Cl. 260-562.
Muller, Francois: *See—*
Charnier, Robert; and Muller, Francois,3,455,874.
Charnier, Robert; and Muller, Francois,3,463,756.
Muller, Frank H.; and Clemente, Carl. Silage aid containing sodium, calcium and magnesium phosphates. 3,443,956, 5-13-69, Cl. 99-8.
Muller, Franz Johann Jakob; and Muller, Helmut. Suspension means. 3,462,104, 8-19-69, Cl. 248-62.
Muller, Friedrich, to Sundwiger Eisenhutte Maschinenfabrik Grah & Co. Metal handling method and apparatus. 3,442,108, 5-6-69, Cl. 72-164.
Muller, Friedrich, to Dennert & Pape Aristo-Werke KG. Housing for slide rules and the like. 3,442,314, 5-6-69, Cl. 150-52.
Muller, Fritz H.: *See—*
Mobius, Hans-Eberhard; Muller, Fritz H.; and Busch, Theodor,3,449,163.
Muller, Georges; and Poittevin, Andre, to Roussel-UCLAF. 2,3-Dimethoxy-berbines substituted in the 10 position and process. 3,420,834, 1-7-69, Cl. 260--287
Muller, Georges; and Poittevin, Andre, to Roussel-UCLAF. Berbine derivatives and processes therefor. 3,426,027, 2-4-69, Cl. 260-289.
Muller, Georges; and Poittevin, Andre, to Roussel-Uclaf. Novel 7-oxo-7-desacetylamino-colchicine compounds. 3,442,953, 5-6-69, Cl. 260-590.
Muller, Gerd: *See—*
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,570.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,571.
Muller, Gerhard Friedrich, to Werner & Pfleiderer. Gearing device. 3,468,174, 9-23-69, Cl. 74-55.
Muller, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Polyurea polymers having carbonyl ethyl radicals substituted for hydrogen in urea links. 3,471,450, 10-7-69, Cl. 260-77.5
Muller, Gerhard; and Behrenz, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Certain acyclic, aromatic and heteroaromatic area derivatives of tricyclo [2.2.1.0^{2}., ^{6}] heptanes and intermediates therefor. 3,462,445, 8-19-69, Cl. 260-295.
Muller, Gerhard; Eue, Ludwig; and Hack, Helmuth, to Farbenfabriken Bayer Aktiengesellschaft. Nortricyclic-3-ureas and their herbicidal compositions and methods of use. 3,454,393, 7-8-69, Cl. 71-119.
Muller, Gerhard; and Merten, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of trimellitic acid imides. 3,445,477, 5-20-69, Cl. 260-326.
Muller, Gernot, to Kleinewefers, Joh., Sohne Maschinenfabrik. Steam humidifying device, especially for paper webs. 3,448,484, 6-10-69, Cl. 15-306.
Muller, Gernot, to Kleinewefers, Joh., Sohne Maschinenfabrik. Sliding bearing with pneumatically or hydraulically pressed bearing cups. 3,456,993, 7-22-69, Cl. 308-9.
Muller, Gernot; and Junk, Dieter, to Kleinewefers, Joh., Sohne Maschinenfabrik. Control circuit for controlling the rollers of calenders. 3,436,913, 4-8-69, Cl. 20-51.
Muller, Hans: *See—*
Monkewitz, Kurt, 3,448,250.
Muller, Hans R.: *See—*
Jackowski, Charles S.; Jensen, Donald F.; Muller, Hans R.; Noll, Melvin R.; and Schaffer, Robert R.,3,466,610.
Jensen, Donald F.; and Muller, Hans R.,3,466,029.
Muller, Hans Rudolf, to Dynamit Nobel Aktiengesellschaft. Method of producing electromagnesia having improved electric insulating power. 3,451,773, 6-24-69, Cl. 23-201.
Muller, Hans. Method and arrangement for separating solid material from a viscous substance. 3,482,693, 12-9-69, Cl. 210-67.
Muller, Heinrich: *See—*
Schulte, Karl; Fruhstorfer, Wolfgang; Muller, Heinrich; Friebel, Hans; Enenkel, Hans Joachim; and Gillissen, Josef,3,461,164.
Muller, Heinz, to Heinz Mathes KG. Window frame of structural metal or synthetic material. 3,434,238, 3-25-69, Cl. 49-192.
Muller, Heinz; and Krempl, Engelbert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Sylvite flotation from potassium-containing crude salts. 3,459,649, 8-5-69, Cl. 209-166.
Muller, Hellmut. Drilling head movable horizontally and vertically. 3,468,196, 9-23-69, Cl. 77-28.
Muller, Helmuth; and Zimmermann, Hans, to Kienzle Apparate GmbH. Sensing arrangement for a counter. 3,482,774, 12-9-69, Cl. 235-132.
Muller, Helmut: *See—*
Muller, Franz Johann Jakob; and Muller, Helmut,3,462,104.
Muller, Helmut; and Mlacker, Siegfried, to Voith Getriebe KG. Fluid flow machine, especially fluid coupling and fluid brake. 3,481,148, 12-2-69, Cl. 60-54.
Muller, Herbert: *See—*
Ohlschlager, Hans; Riester, Oskar; Muller, Herbert; and Reckziegel, Erich,3,471,293.
Muller, Herman L.; and Li, Tao Ping, to Standard Oil Company (Indiana). Regeneration of aluminum halide-absorbent solid catalyst. 3,427,254, 2-11-69, Cl. 252-415.

Muller, Hermann Georg; and Krucker, Werner, to Aktiengesellschaft Cilander. Apparatus for the wet treatment of textile materials in rope form. 3,465,553, 9-9-69, Cl. 68-175.
Muller, Hermann. Profile rail provided with attachment element. 3,425,726, 2-4-69, Cl. 287-189.36
Muller, Hermann. Profile rail connection. 3,456,966, 7-22-69, Cl. 287-189.36
Muller, Hubert: *See*—
Weber, Herbert; Lange, Gunter; Muller, Hubert; Von Fellner, Michael; and Heer, Roland,3,435,376.
Muller, Jacques. Filter unit with automatic cleaning and automatic discharge of collected impurities. 3,445,002, 5-20-69, Cl. 210-108.
Muller, Jakob. Weft yarn anchoring arrangement for needle looms. 3,434,506, 3-25-69, Cl. 139-124.
Muller, James H., to United States of America, Army. Combined rifle and grenade launcher weapon selectively fired by a single trigger. 3,442,173, 5-6-69, Cl. 89-127.
Muller, Johann: *See*—
Bschorer, Konrad; Muller, Johann; and Ostler, Josef,3,465,642.
Muller, Jorg, to Karcher, Alfred. Apparatus for spraying and applying at least one chemical liquid. 3,421,694, 1-14-69, Cl. 239-142.
Muller, Josef; Sorsche, Joachim; and Muller, Alf John, to Daimler-Benz Aktiengesellschaft. Engine and front wheel suspension of motor vehicles. 3,473,620, 10-21-69, Cl. 180-11.
Muller, Karl Adolf; Engel, Frederico; and Gude, Armin, to Chemische Werke Huls Aktiengesellschaft. Process for the preparation of polyamide powders processing higher viscosities. 3,476,711, 11-4-69, Cl. 260-78.
Muller, Karl Heinz, to Honeywell G.m.b.H. Motor reversing and speed control apparatus. 3,428,880, 2-18-69, Cl. 318-257.
Muller, Karl Heinz, to Honeywell G.m.b.H. Circuitry for suppression of parallel drift in D.C. differential amplifiers. 3,473,138, 10-14-69, Cl. 330-30.
Muller, Karl-Heinz: *See*—
Weissflog, Sieghard; and Muller, Karl-Heinz,3,440,929.
Muller, Klaus R. A.; Sych, Georg M.; and Zimmerman, Heinz, to Veb Chemiefaserwerk 'Friedrich Engels'. Method for the production of high-molecular polyesters or co-polyesters. 3,441,540, 4-29-69, Cl. 260-75.
Muller, Kurt: *See*—
Van Ornum, Delbert G.; Geideman, William A., Jr.; and Muller, Kurt,3,469,143.
Muller, Leopold. Concrete ceiling plate. 3,455,071, 7-15-69, Cl. 52-127.
Muller, Lothar. Sack filling machine. 3,422,916, 1-21-69, Cl. 177-122.
Muller, Lothar, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Method of preparing siliceous pigments. 3,482,937, 12-9-69, Cl. 23-182.
Muller, Marcel: *See*—
Boller, Arthur; Furst, Andor; and Muller, Marcel,3,463,775.
Furst, Andor; and Muller, Marcel,3,480,620.
Furst, Andor; and Muller, Marcel,3,481,956.
Furst, Andor; Muller, Marcel; and Saucy, Gabriel,3,476,746.
Muller, Michael: *See*—
Grimes, James E.; and Muller, Michael,3,443,253.
Muller, Nathan W.: *See*—
Joo, Louis A.; Hutchings, Le Roi E.; and Muller, Nathan W.,3,450,623.
Muller, Paul Adolf. Method of making filtering material for cigarettes. 3,466,358, 9-9-69, Cl. 264-287.
Muller, Paul Curt, to Patelhold Patentverwertungs- und Elektro Holding AG. Microwave heating apparatus. 3,427,422, 2-11-69, Cl. 219-10.55
Muller, Peter, to International Telephone and Telegraph Corporation. Circuit arrangements for standardizing groups of analog signals. 3,424,900, 1-28-69, Cl. 235-193.
Muller, Reinhard: *See*—
Krainer, Helmut; Muller, Reinhard; and Reich, Wolfhard,3,425,380.
Muller, Richard; and Dathe, Christian, to Institut fur Silikon- und Fluorkarbon-Chemie. Process for preparing metal-organic compounds of the Group V(arsenic, antimony and bismuth) of the periodic system of elements. 3,458,551, 7-29-69, Cl. 260-440.
Muller, Richard; Dathe, Christian; and Dressler, Manfred. Process for making salts of perfluorovinyl fluorosilicic acids. 3,449,394, 6-10-69, Cl. 260-448.2
Muller, Richard; Reichel, Sigrid; and Dathe, Christian, to Institut fur Silikon- und Fluorkarbon-Chemie. Process for alkylating, alkenylating and arylating lead compounds. 3,465,012, 9-2-69, Cl. 260-437.
Muller, Richard: *See*—
Dathe, Christian; and Muller, Richard,3,458,555.
Muller, Robert E.; Godsted, Kent B.; Patarini, Leon M.; and McDonald, James F., to National Can Corporation. Multiple element mixing and dispensing container. 3,443,726, 5-13-69, Cl. 222-80.
Muller, Robert M.; and Sussman, Milton H., to American Optical Corporation. Plural miscroscope objective used with a common telescope objective. 3,437,398, 4-8-69, Cl. 350-38.
Muller, Rudolf A., to Siemens Aktiengesellschaft. Gas laser or maser pumped by mono-energetic electrons. 3,467,914, 9-16-69, Cl. 331-94.5
Muller, Rudolf, to Siemens Aktiengesellschaft. Unipolar transistor for high frequencies. 3,449,645, 6-10-69, Cl. 317-235.
Muller, Rudolf: *See*—
Uerlichs, Johannes; and Muller, Rudolf,3,447,793.
Muller, Sebastian; Klarner, Ewald; and Wagner, Horst, to Messer Griesheim G.m.b.H. Device for sectioning continuously welded pipe coils. 3,463,474, 8-26-69, Cl. 266-23.
Muller, Walter: *See*—
Hero, Franz; Odermatt, Karl; and Muller, Walter,3,487,446.
Muller, Walter; Schweighofer, Johann; and Weinrotter, Ferdinand, to Osterreichische Stickstoffwerke Aktiengesellschaft. Process for the manufacture of aliphatic α- hydroxycarboxylic acids. 3,449,385, 6-10-69, Cl. 260-413.
Weinrotter, Ferdinand; Schmidt, Alfred; Muller, Walter; and Bohler, Walter,3,432,501.
Muller-Wartenberg, Heinz, to Metallgesellschaft Aktiengesellschaft. Apparatus for carrying out a method of purification for flue gases. 3,475,133, 10-28-69, Cl. 23-288.
Muller, Werner, to Contraves AG. Transmission. 3,482,472, 12-9-69, Cl. 74-815.
Muller, Wolf F., to United States Catheter & Instrument Corporation. Spring guide manipulator. 3,452,740, 7-1-69, Cl. 128-2.
Muller, Wolf F., to United States Catheter & Instrument Corporation. Controlled vascular curvable spring guide. 3,452,742, 7-1-69, Cl. 128-2.
Muller, Wolfgang Karl Heinz, to Zimmer, Hans J. Process for production of catalyst from pyrophoric bismuth. 3,458,308, 7-29-69, Cl. 75-108.
Muller, Wolfgang, to Zimmer, Hans J., Aktiengesellschaft. Process for direct esterification of aromatic dicarboxylic acids with glycols. 3,457,297, 7-22-69, Cl. 260-475.
Mulley, William G., to United States of America, Navy. Settable dial indicator. 3,469,559, 9-30-69, Cl. 116-129.
Mullier, Michel E.: *See*—
Starr, Leon; and Mullier, Michel E.,3,423,431.
Mulligan, Lorraine M. Board game apparatus with selectively usable hazard avoiding chance means. 3,468,540, 9-23-69, Cl. 273-134.
Mulligan, Terrence J.; and Morrison, John K. Coin track assembly for a coin mechanism. 3,467,112, 9-16-69, Cl. 133-3.
Mulligan, William A., to TRW Inc. Electrical resistor having low resistance values. 3,473,146, 10-14-69, Cl. 338-293.
Mulligan, William A.; and Murphy, Remington M., to TRW, Inc. Vitreous enamel resistor composition and resistor made therefrom. 3,441,516, 4-29-69, Cl. 252-512.
Mullin, Doyle D., to Litton Systems, Inc. Electrostatic precipitator. 3,444,667, 5-20-69, Cl. 55-113.
Mullin, Francis J.: *See*—
Fuchs, George L.; and Mullin, Francis J.,3,485,467.
Mullin, John Brian; and Hurle, Donald Thomas James, to National Research Development Corporation. Process of growing a single crystal utilizing differences in chemical potential. 3,460,998, 8-12-69, Cl. 148-1.6
Mullin, John T., to Minnesota Mining and Manufacturing Company. Plural motor torque control for tape transport mechanism. 3,444,445, 5-13-69, Cl. 318-7.
Mullin, Leslie Raeburn: *See*—
Brown, Thomas Theodore; Mullin, Leslie Raeburn; and Selves, Gerald Ernest,3,487,367.
Mullin, Newell D.: *See*—
Fraboni, Henry J.; Mapes, Harold C.; and Mullin, Newell D.,3,438,647.
Mullineaux, Richard D.: *See*—
Slaugh, Lynn H.; and Mullineaux, Richard D.,3,448,157.
Slaugh, Lynn H.; and Mullineaux, Richard D.,3,448,158.
Mullings, Donald M.: *See*—
Abbott, Roy W.; and Mullings, Donald M.,3,437,318.
Mullings, Donald M., to General Electric Company. Movable drain connection for humidifier sump. 3,486,523, 12-30-69, Cl. 137-271.
Mullinix, Charles D. Food packaging. 3,464,832, 9-2-69, Cl. 99-171.
Mullins, David M., to Monsanto Company. Textile bobbin chuck. 3,462,092, 8-19-69, Cl. 242-46.4
Mullins, John W. Refrigerant service valve. 3,448,758, 6-10-69, Cl. 137-318.
Mullins, Lawrence J.; and Leary, Joseph A., to United States of America, Atomic Energy Commission. Molten salt method of separation of americium from plutonium. 3,420,639, 1-7-69, Cl. 23-325.
Mullion, John J., to General Dynamics Corporation. Rotary vacuum union. 3,449,001, 6-10-69, Cl. 285-279.
Mulno, Lester F., to Star Expansion Industries Corporation. Power actuated tool. 3,468,465, 9-23-69, Cl. 227-10.
Mulski, Francis P., to General Electric Company. Semiconductor devices adapted for pressure mounting. 3,457,472, 7-22-69, Cl. 317-234.
Mult, Roy H.: *See*—
Kolka, Alfred; Tai, Wun T.; and Mult, Roy H.,3,462,382.

Multer, Howard C., to Stanley Works, The. Weatherstrip for door sill and door assembly employing same. 3,448,543, 6-10-69, Cl. 49-470.
Multer, Howard C., to Stanley Works, The. Magnetic weatherstrip and door assembly. 3,469,349, 9-30-69, Cl. 49-478.
Multerer, Albert: *See—*
Planitzer, Erich; Maus, Eicke; Multerer, Albert; Schober, Erwin; and Schindler, Werner,3,446,112.
Multhaup Robert H.: *See—*
Finneran, James A.; Mayo, Hays C.; Multhaup Robert H.; and Smith, Ronald B.,3,441,393.
Multhopp, Hans, to Syscon, Inc. Multiple slotted air-foil system for aircraft. 3,480,235, 11-25-69, Cl. 244-42.
Multi-Contack AG: *See—*
Neidecker, Rudolf, 3,453,587.
Multi-Elmac Company: *See—*
Leland, Robert D., 3,438,037.
Multifastener Company: *See—*
Keough, William R., 3,442,274.
Keough, William R., 3,444,008.
Multifastener Corporation: *See—*
Double, Plummer E.; and Abbrecht, Herman R., 3,439,723.
Lauth, Corliss, 3,472,308.
Matthews, John Horton, 3,430,808.
Steward, Jerry H., 3,469,613.
Multifol Patentverwertungs A.G.: *See—*
Utz, Kastulus, 3,467,565.
Multilastic Limited: *See—*
Sykes, Neville B.; and Holland, Lawrence, 3,472,290.
Multronics, Inc.: *See—*
Mullaney, John J., 3,482,249.
Mulvey, Dennis M.: *See—*
Weinstock, Leonard M.; Schaeffer, James C.; and Mulvey, Dennis M.,3,455,919.
Mumaw, Everett D. Tooth extractor and method. 3,468,031, 9-23-69, Cl. 32-61.
Mumford, Eustace Harold, to Owens-Illinois, Inc. Glass molding apparatus with mold element aligning means. 3,472,639, 10-14-69, Cl. 65-307.
Mumford, Howard; Smith, Peter William; and Halliday, David, to British Telecommunications Research Limited. Digit rate synchronisation of a network of digital stations. 3,452,294, 6-24-69, Cl. 331-11.
Mumford, William W., to Bell Telephone Laboratories, Incorporated. Phased array multibeam formation antenna system. 3,444,559, 5-13-69, Cl. 343-100.
Mumma, Harold J., to FMC Corporation. Container handling apparatus. 3,447,282, 6-3-69, Cl. 53-75.
Mumma, Harold J., to FMC Corporation. Aligning mechanism. 3,447,659, 6-3-69, Cl. 198-29.
Mumma, Harold J., to FMC Corporation. Egg carton conveyor. 3,460,316, 8-12-69, Cl. 53-160.
Mummert, Arnold D., to General Motors Corporation. Automatic transmissions with shift timing valve. 3,466,950, 9-16-69, Cl. 74-868.
Mummey, Dale Brice: *See—*
Feeser, William Coover; Bosland, Cornelius William; Lockard, Joseph Larue; and Mummey, Dale Brice,3,430,183.
Mumper, George J. Carton closing and taping machine. 3,466,843, 9-16-69, Cl. 53-137.
Mumpower, Robert C., II: *See—*
Touey, George P.; and Mumpower, Robert C., II,3,424,173.
Touey, Gerge P.; and Mumpower, Robert C., II,3,451,887.
Munch, Ralph H.; and Thompson, Quentin E., to Monsanto Company. Method of producing vacuum. 3,458,117, 7-29-69, Cl. 230-101.
Munch, Walter, Jr.; and Uetrecht, Dale M., to Baldwin, D. H., Company. Electronic organ reiteration system utilizing a zero-crossing preference circuit. 3,476,864, 11-4-69, Cl. 84-1.03
Munchbach, Curt, to Ungerer, Irma. Plant for straightening and severing strip metal. 3,429,163, 2-25-69, Cl. 72-131.
Munchbach, Curt, to Ungerer, Karl Fr. Control and driving system for straightening and cutting machines. 3,439,517, 4-22-69, Cl. 72-11.
Munchener, Peggy Kinderwagenfabrik GmbH & Co., KG: *See—*
Glaser, Dieter; and Beger, Udo, 3,466,677.
Glaser, Dieter, 3,466,678.
Muncheryan, Arthur M. Directed-beam portable laser system with self- charging power supply. 3,478,278, 11-11-69, Cl. 331-94.5
Muncheryan, Hrand M. Laser eraser. 3,464,534, 9-2-69, Cl. 197-181.
Muncheryan, Hrand M.: *See—*
Reed, Edward A.; and Muncheryan, Hrand M.,3,478,637.
Muncie, M. M. Cleated wading sandal. 3,464,127, 9-2-69, Cl. 36-7.6
Munck, Ellsworth G., to Union Carbide Corporation. Package and method of producing same. 3,424,306, 1-28-69, Cl. 206-65.
Munck, Fredrik, to Munck, Sverre, A/S. Method for the lifting of transport goods. 3,438,521, 4-15-69, Cl. 214-152.
Munck, Fredrik, to Sverre Munck A/S. Container. 3,484,014, 12-16-69, Cl. 220-1.5
Munck, Sverre, A/S: *See—*
Munck, Fredrik, 3,438,521.
Muncke, Ludwig; Buchmuller, Josef; and Gross, Gerhard, to Deere & Company. Coupling mechanism. 3,486,769, 12-30-69, Cl. 280-479.
Muncke, Ludwig: *See—*
Sommer, Anton; and Muncke, Ludwig,3,427,046.
Munday, James C.; and Neale, Junius B., to General Electric Company. Apparatus for manufacturing aligned grids electron discharge device. 3,422,514, 1-21-69, Cl. 29-25.19
Munday, John C.: *See—*
Rogers, Dilworth T.; and Munday, John C.,3,464,156.
Sor, Kamil; and Munday, John C.,3,457,090.
Munden, Walter B., 50% to Packer, Luther N. Remote speed indicator. 3,483,758, 12-16-69, Cl. 73-491.
Munder, Johannes: *See—*
Endermann, Fritz; Munder, Johannes; and Stroszynski, Joachim,3,440,944.
Hackmann, Ernst-August; Munder, Johannes; and Moraw, Roland,3,446,621.
Munder, Johannes; and Hertzberg, Gunther, to Keuffel & Esser Company, mesne. Heat-developable reproduction material. 3,434,838, 3-25-69, Cl. 96-75.
Munder, Johannes; Scheler, Siegfried; and Brahm, Richard, to Keuffel & Esser Company. Diazotype material. 3,459,550, 8-5-69, Cl. 96-91.
Mundie, John, to Tee-Pak of Canada, Limited. Apparatus for forming, heat sealing, and introducing anti-blocking powder into plastic tubes. 3,446,691, 5-27-69, Cl. 156-466.
Mundil, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of hydrazine from methylethyl- or diethylketazine. 3,485,582, 12-23-69, Cl. 23-190.
Munding, German, to Bolkow Gesellschaft mit beschrankter Haftung. Rocket propellant injection and cooling device and method. 3,459,001, 8-5-69, Cl. 60-258.
Mundinger, William A.: *See—*
Aquino, Herman A.; Ferris, Ray L.; Mundinger, William A.; and Schuller, James J.,3,471,044.
Mundschenk, Glenn R.: *See—*
Scott, William B., Jr.; and Mundschenk, Glenn R.,3,451,733.
Mundt, Geimuplast Peter KG: *See—*
Koeppe, Hans-Hermann; and Urban, Otfried, 3,470,643.
Mundt, Peter H. E.; and Florjancic, Peter, 3,470,642.
Mundt, Peter H. E.; and Florjancic, Peter, to Mundt, Geimuplast Peter KG. Integral transparency frame. 3,470,642, 10-7-69, Cl. 40-152.
Mundt, Peter. Chain made from moldable material. 3,453,823, 7-8-69, Cl. 59-90.
Mundt, Peter; and Urban, Otfried, to Geimuplast Peter Mundt KG. Unitary slide frame. 3,478,456, 11-18-69, Cl. 40-152.
Mundt-Petersen, Just Henrik; and Eriksson, Karl Ake, to Aktiebolaget Landsverk. Method of reducing the profile of a vehicle. 3,431,016, 3-4-69, Cl. 296-28.
Mundy, Joseph L.: *See—*
Newhouse, Vernon L.; and Mundy, Joseph L.,3,480,920.
Mundy, Robert E. Tie and spacer for building blocks. 3,426,497, 2-11-69, Cl. 52-677.
Mune, Charles, to Heinemann Electric Company. Snap-in mounting device for circuit breakers. 3,453,408, 7-1-69, Cl. 200-168.
Muneyuki, Ryonosuke: *See—*
Tanida, Hiroshi; and Muneyuki, Ryonosuke,3,466,330.
Munger, Donald W.: *See—*
Cowan, Gerald de G.; and Munger, Donald W.,3,482,434.
Munger, John R., to United States of America, Army. Hybrid rocket motor. 3,457,727, 7-29-69, Cl. 60-251.
Munger, Orin R.: *See—*
Hassell, Jack V., 3,449,855.
Munier, Marie-Therese Louise Jeanne, to Societe Anonyme: Societe Alsacienne de Constructions Atomiques, de Telecommunications et d'Electronique 'Alcatel'. Manufacture of ferroelectric parts, more particularly of transducers. 3,454,459, 7-8-69, Cl. 161-168.
Munjee, Aman D.: *See—*
Knudsen, Lawrence B.; and Munjee, Aman D.,3,423,075.
Munk, Edmund, to Furnier-und Sperholzwerk J.F. Werz Jr., K.G. Method for manufacturing chipboard plates and the like. 3,423,267, 1-21-69, Cl. 156-214.
Munk, Edmund; Haas, Herbert; and Weinberg, Gert. Stacking container. 3,430,806, 3-4-69, Cl. 220-97.
Munk, Enno Coert: *See—*
Kooy, Cornelis; Munk, Enno Coert; and Rem, Piet Hein,3,472,691.
Munk, Hans-Ludwig, to Losenhausenwerk Dusseldorfer Maschinenbau Aktiengesellschaft. Device for automatic correction of an unbalance. 3,446,100, 5-27-69, Cl. 77-5.
Munksjo Aktie Bolag: *See—*
Franson, Otto Elwing, 3,486,421.
Munley, William J., Jr.: *See—*
Hopkins, Don J.; Munley, William J., Jr.; and Mackinnon, John,3,454,479.

Munn, George E., to Du Pont de Nemours, E. I., and Company. Process for moisture conditioning of nylon. 3,451,974, 6-24-69, Cl. 260-78.
Munn, James M.: *See—*
White, Wayne E.; Munn, James M.; Gilliland, Joe E.; and Wright, Benny B.,3,463,605.
Munnelly, James J., to Bell Telephone Laboratories, Incorporated. Variable permeability device. 3,436,705, 4-1-69, Cl. 336-132.
Munoz, Robert M.: *See—*
Kerwin, William J.; Dix, Michael G.; and Munoz, Robert M.,3,464,016.
Munoz, Robert M., to United States of America, National Aeronautics and Space Administration. Phase quadrature-plural channel data transmission system. 3,456,193, 7-15-69, Cl. 325-60.
Munoz, Wenceslao: *See—*
Kuzmak, Joseph M.; and Munoz, Wenceslao,3,423,167.
Munro, Donald Frank, to Perkin-Elmer Corporation, The, mesne. High vacuum space simulator. 3,442,139, 5-6-69, Cl. 73-432.
Munro, Hugh T., and Sons, Inc.: *See—*
Freund, William G., 3,420,161.
Munro, John N., to Heli-Coil Corporation, mesne. Prevailing torque locknut. 3,457,979, 7-29-69, Cl. 151-21.
Munro, Ronald V., to Scantlin Electronics, Inc. Dial long line circuit. 3,432,620, 3-11-69, Cl. 179-16.
Munroe, Clarnec R.; and Williams, Homer K., Jr., to Stim-O-Lator, Inc. Hydro-massage appliance. 3,443,560, 5-13-69, Cl. 128-66.
Munroe, Lawrence M.: *See—*
Beaulieu, Adrian A.; McKenney, James L.; Megley, James W.; and Munroe, Lawrence M.,3,422,248.
Munroe, Richard Warren: *See—*
Burnham, Virgil Allan; and Munroe, Richard Warren,3,432,890.
Munroe, Thomas, to Moraine Box Company. Corner structure for wall members. 3,442,412, 5-6-69, Cl. 217-69.
Munroe, William A.; and Kruger, Frederick B., to Bacharach Industrial Instrument Co. Incline dynamometer. 3,427,874, 2-18-69, Cl. 73-116.
Munroe, William O., to Amot Controls Corporation. Acceleration sensing device. 3,448,228, 6-3-69, Cl. 200-61.45
Munsch Research and Development Corporation: *See—*
Munsch, Robert J., 3,451,149.
Munsch, Robert J., to Munsch Research and Development Corporation. Earth mover with gas ejecting means cooperating with digging edge. 3,451,149, 6-24-69, Cl. 37-141.
Munse, Robert A., to Bishop and Babcock Corporation, The, mesne. Plastic anchoring fastener. 3,422,500, 1-21-69, Cl. 24-73.
Munsey, Robert J., to Eaton Yale & Towne, Inc. Self-tapping screw. 3,469,491, 9-30-69, Cl. 85-47.
Munsingwear, Inc.: *See—*
Anderson, Carroll R., 3,464,238.
Severson, Nels Arthur; and Bren, Eunice M., 3,441,022.
Munson, Donald G., to Terado Corporation. Light saver comprising a rectifier in a disk insert. 3,450,893, 6-17-69, Cl. 307-146.
Munson, Eugena A.: *See—*
David, Charles W.; and Munson, Eugena A.,3,481,083.
Munson, Eugene A.: *See—*
David, Charles W.; and Munson, Eugene A.,3,479,222.
Munson, Lyle G.: *See—*
Heth, Sherman C.; Kaufman, Vernon R.; and Munson, Lyle G.,3,484,963.
Munson, Ralph E., to Midland-Ross Corporation. Dampened railway car truck bolster. 3,486,465, 12-30-69, Cl. 105-197.
Munson, Verne E., to Bell Telephone Laboratories, Incorporated. Voice operated control circuit. 3,433,897, 3-18-69, Cl. 179-6.
Munson, Whitney K. Handstamp with knee action type support. 3,431,840, 3-11-69, Cl. 101-111.
Munson, William A., to Westinghouse Electric Corporation. Material cutting control system providing reduced material wasteage. 3,466,958, 9-16-69, Cl. 83-71.
Munson, William A., to Westinghouse Electric Corporation. Blast furnace volume charging control. 3,476,268, 11-4-69, Cl. 214-2.
Munster, Horst: *See—*
Tauchert, Klaus; Munster, Horst; Hettich, Bernhard; Konig, Gerhard; Hofheinz, Karlheinz; and Kade, Peter,3,482,511.
Munster, Josef; Wellensiek, Gerd; and Linke, Gunter, to Ferdinand Lentjes Dampfkessel-und Maschinenbau. Water tube boiler. 3,478,725, 11-18-69, Cl. 122-333.
Munters & Co.: *See—*
Meek, George W., 3,471,600.
Munters, Carl Georg. Gas and liquid contact apparatus. 3,450,393, 6-17-69, Cl. 261-112.
Munters, Carl Georg; and Meek, George W. Method for the production of diagonally pleated paper material. 3,470,280, 9-30-69, Cl. 264-90.
Munton, Rupert, to Shipowners Refrigerated Cargo Research Association. Flexible couplings for providing fluid communication between two members. 3,463,516, 8-26-69, Cl. 285-9.
Muntz Sterco-Pak, Inc.: *See—*
Wilson, Rex C., 3,455,559.
Munyon, Alfred R. Electric-plug puller and insulator. 3,431,535, 3-4-69, Cl. 339-45.
Munz, Otto John. Combination food package, serving tray and shipping and display container. 3,465,873, 9-9-69, Cl. 206-47.
Munz, Werner, to Ingersoll-Rand Company. Extensible boom structure. 3,438,509, 4-15-69, Cl. 212-145.
Munzberg, Walter, to Ernst, Max. Switch for electric toy and model railroad installations. 3,483,369, 12-9-69, Cl. 246-415.
Munzel, Kurt, to Hoffmann-La Roche Inc. Coated dosage form adapted to oral emetine or dehydroemetine therapy. 3,431,338, 3-4-69, Cl. 424-21.
Munzing, Robert, to Ernst, Max. Coupling for vehicles of toy and model railroads with a device for predisengagement of the coupling. 3,450,272, 6-17-69, Cl. 213-75.
Muotka, Ragnar Ludvig: *See—*
Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig,3,420,568.
Landeborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig,3,466,093.
Muotka, Ragnar-Ludvig: *See—*
Landerborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar-Ludvig,3,454,176.
Muraca, Raffaele F.: *See—*
Figiel, Francis J.; and Muraca, Raffaele F.,3,422,032.
Murahashi, Tsuneo: *See—*
Kurimura, Toshio; Yamamura, Kazuomi; and Murahashi, Tsuneo,3,454,862.
Murai, Korenori; Fukuda, Kiyo; Saotome, Kenji; and Sato, Shigetake, 1/2 each to Mitsui Chemical Industry Co., Ltd, and Bridgestone Tire Company Limited. Open cell polyalkylene ether polyurethane. 3,454,504, 7-8-69, Cl. 260-2.5
Murai, Munehisa: *See—*
Kubo, Koichiro; Omori, Fumitaka; and Murai, Munehisa,3,463,528.
Murai, Sadao: *See—*
Iwata, Akira; and Murai, Sadao,3,470,584.
Murai, Wasaburo; and Kobayashi, Yoshio, to Terasaki Denki Sangyo Kabushiki Kaisha. Circuit interrupter. 3,464,038, 8-26-69, Cl. 335-16.
Murakami, Hiromi, to Nippon Electric Company, Limited. Electron tube planar grid electrode. 3,436,585, 4-1-69, Cl. 313-348.
Murakami, Hiroshi: *See—*
Kashiwagi, Etsuo; and Murakami, Hiroshi,3,478,336.
Sasaki, Yozo; Furuoya, Takashi; Sugiyama, Haruo; and Murakami, Hiroshi,3,465,308.
Murakami, Kanao; and Seiki Kogyo Kabushiki Kaisha. Mimeograph. 3,422,755, 1-21-69, Cl. 101-119.
Murakami, Keiichi: *See—*
Mizuno, Yutaka; Nishihara, Tadashi; Shioyama, Yutaka; Tsutsui, Tsutomu; and Murakami, Keiichi,3,466,311.
Murakami, Kiyoharu, to Kabushiki Kaisha Daikin Seisakusho. Clutch servocontrol apparatus for automotive vehicles. 3,433,340, 3-18-69, Cl. 192-91.
Murakami, Masuo; Kawashima, Yuji; and Sano, Kengi, to Yamanouchi Pharmaceutical Co., Ltd. Glutathione-amino acid compositions, and glutathione-basic amino acid salts. 3,482,025, 12-2-69, Cl. 424-319.
Murakami, Masuo; Takahahi, Kozo; Matsumoto, Jun; and Iwamoto, Hidenori, to Yamanouchi Pharmaceutical Co., Ltd.Process for the preparation of vitamin B_{12} coenzyme and derivatives thereof. 3,461,114, 8-12-69, Cl. 260-211.7
Murakami, Masuo; Takahashi, Kozo; and Matsumoto, Jun, to Yamanouchi Pharmaceutical Co., Ltd.Process for the preparation of vitamin B_{12} coenzyme and derivatives thereof. 3,459,735, 8-5-69, Cl. 260-211.7
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi, to Yamanouchi Pharmaceutical Co., Ltd. Novel 6-chromanol derivatives and their preparation. 3,476,777, 11-4-69, Cl. 260-345.5
Murakami, Masuo; Takahashi, Kozo; Murase, Kiyoshi; and Hirata, Yasubumi, to Yamanouchi Pharmaceutical Co., Ltd. Process for the production of thiamine derivatives. 3,444,167, 5-13-69, Cl. 260-256.5
Murakami, Ryuichi; and Kishigami, Minoru, to Nippon Electric Company, Limited. Fault alarm system for two-way pulse communication systems. 3,430,144, 2-25-69, Cl. 325-41.
Murakami, Shogo: *See—*
Tsuruga, Masanori; Murakami, Shogo; Kondo, Katsutoshi; Akabane, Shunei; Washikita, Kenji; and Koshino, Tameo,3,478,101.
Murakami, Yoshinobu: *See—*
Inami, Akira; Morimoto, Kazuhisa; and Murakami, Yoshinobu,3,421,891.
Murakami, Yoshio: *See—*
Okamoto, Hiroaki; and Murakami, Yoshio,3,442,440.
Murakami, Zenzi; Ishikura, Morizo; and Manami, Masahiro, to Osaka Kiko Kabushiki Kaisha. Apparatus for separating filaments of tow (filament bundle). 3,440,689, 4-29-69, Cl. 19-65.
Muraki, Ichiro; Tsuchida, Takashi; Shinoda, Kenichi; and Maruyam, Shoji, to Fuji Denki Kagaku Kabushiki Kaisha. Alkaline cell. 3,442,716, 5-6-69, Cl. 136-133.

Muraki, Shigeru: *See—*
Moroe, Tatsuo; Hattori, Staohiko; Komatsu, Akira; and Muraki, Shigeru,3,459,556.
Muraki, Takeshi: *See—*
Seki, Yoshitaka; and Muraki, Takeshi,3,452,232.
Muramatsu, Yasunori: *See—*
Kondo, Takeichi; Kato, Yoshimi; and Muramatsu, Yasunori,3,482,197.
Muramoto, Noboru; Fujimoto, Keimei; and Okuno, Yositosi, to Sumitomo Chemical Company, Ltd. Molecular compounds of O,O-dimethylcarbamoylmethyl dithiophosphate and an alkyl phenol. 3,444,273, 5-13-69, Cl. 260-943.
Murao, Taiichi; Katsuyama, Shigeo; and Sasaki, Toshio, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing crimped filaments. 3,443,002, 5-6-69, Cl. 264-168.
Muraoka, Masao. Turntable game with magnetic tippable game pieces. 3,471,152, 10-7-69, Cl. 273-86.
Muraoka, Noboru: *See—*
Hida, Naoto; Kaiden, Muneyuki; Muraoka, Noboru; and Otsubo, Hideo,3,456,405.
Muraoka, Toshio: *See—*
Yokoyama, Giichi; Muraoka, Toshio; and Noguchi, Hitoshi,3,474,334.
Muraro, Leo J.: *See—*
Waters, Paul F.; and Muraro, Leo J.,3,431,242.
Murase, Kiyoshi: *See—*
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi,3,476,777.
Murakami, Masuo; Takahashi, Kozo; Murase, Kiyoshi; and Hirata, Yasubumi,3,444,167.
Murase, Tamotsu; Mikami, Ichiro; and Tamura, Moriyosi, to Ube Industires, Ltd. Process for the production of alkali metal terephthalates. 3,479,399, 11-18-69, Cl. 260-515.
Murata, Atsuo: *See—*
Takahashi, Nobuhiko; Kokubo, Ryo; Nagakura, Mizuhiko; Koguchi, Mitsuhiro; and Murata, Atsuo,3,423,410.
Murata, Kazuo, to Yuasa Battery Company Limited. Method of making porous bodies. 3,450,650, 6-17-69, Cl. 260-2.5
Murata Machinery, Ltd.: *See—*
Matsui, Isamu, 3,450,358.
Matsui, Isamu; Miyagi, Tamotsu; and Funahashi, Muneaki, 3,480,215.
Nakahara, Teiji; Fukunaga, Mitsuo; and Yamashita, Toshiyuki, 3,445,998.
Shimai, Junichiro; Matsui, Isamu; Kawamura, Syuzo; and Sakai, Syoji, 3,476,328.
Murata, Mark M. Triangular scale with hinged indicia plates. 3,455,028, 7-15-69, Cl. 33-107.
Murata, Sanjiro. Ultraminiature tape recorder with two-way gravity-operated control switch actuated by change in vertical orientation of recorder. 3,485,963, 12-23-69, Cl. 179-100.2
Murata, Toshiya; Takahashi, Toshiyuki; and Kobayashi, Yoshiharu, to Mitsubishi Denki Kabushiki Kaisha. Electromagnetic connector. 3,469,665, 9-30-69, Cl. 192-21.5
Murata, Yorihiko: *See—*
Naito, Ryoichi; Oguro, Yoshigoro; and Murata, Yorihiko,3,434,928.
Murauskas, Donald J., to Weatherhead Company, The. Opposed face Non-extrusion seal. 3,442,515, 5-6-69, Cl. 277-27.
Murauskas, Donald J., to Weatherhead Company, The. Rotary valve. 3,473,551, 10-21-69, Cl. 137-269.
Muravlenko, Viktor Ivanovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide, to Sankyo Company Limited, and Kasei Kogyo Kabushiki Kaisha. Formate stabilized polyolefins. 3,437,633, 4-8-69, Cl. 260-45.85
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi, to Sankyo Company Limited Asahi Kasei Kogyo Kabushiki Kaisha. Novel piperidine N-oxide polyolefin stabilizers. 3,431,233, 3-4-69, Cl. 260-45.8
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi, to Sankyo Company Limited, and Asahi Kasei Kogyo Kabushiki Kaisha. Ultraviolet light stabilizers for polyolefins and polyurethanes. 3,474,068, 10-21-69, Cl. 260-45.8
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi, to Sankyo Company Limited Asahi Kasei Kogyo Kabushiki Kaisha. Piperidine N-oxide polyolefin stabilizers. 3,431,232, 3-4-69, Cl. 260-45.8
Murayama, Keisuke: *See—*
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,436,369.
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,448,074.
Murayama, Masao: *See—*
Kusuda, Fuyuki; Murayama, Masao; Matsuo, Yoshiharu; Okumura, Hideo; and Tatewaki, Nobukiyo,3,442,892.
Murayama, Masayuki, to Japan Gas-Chemical Company, Inc. Process for preparing hydroxyalkylacrylate or hydroxyalkylmethacrylate. 3,441,599, 4-29-69, Cl. 260-486.
Murayama, Niyoshi: *See—*
Nishiura, Tomehichi; and Murayama, Niyoshi,3,459,093.
Murayama, Noboru, to Kabushiki Kaisha Ricoh. System for reversibly connecting a plurality of data processing equipments. 3,482,215, 12-2-69, Cl. 340-172.5
Murayama, Setsuko: *See—*
Kobayashi, Yoshichika; Masuda, Mutsuo; Mizuno, Hideo; and Murayama, Setsuko,3,457,184.
Kobayashi, Yoshichika; Masuda, Mutsuo; and Murayama, Setsuko,3,458,450.
Murayama, Setuko: *See—*
Kobayashi, Yoshichika; Masuda, Mutsuo; Murayama, Setuko; and Mizuno, Hideo,3,458,451.
Murchison, John R.; Darnall, John C.; and Brassell, Clarence Morgan, to Development and Control Limited SA. Stacker for newspapers and the like. 3,429,239, 2-25-69, Cl. 93-93.
Murcott, Charles E. Occupant support device for bathtubs. 3,448,468, 6-10-69, Cl. 4-185.
Murcott, Charles E. Workbench underarm devices for invalid support. 3,474,993, 10-28-69, Cl. 248-118.
Murcott, Charles E., to Lumex, Inc. Safety and patient assist device. 3,486,176, 12-30-69, Cl. 5-331.
Murdoch, Colin D.; and Pennebaker, Chad W., to National Bowling Corporation. Tethered pin status sensing arrangement. 3,458,191, 7-29-69, Cl. 273-44.
Murdoch, Henry Drummond, to American Cyanamid Company. Bridged π-allyl compounds of molybdenum and tungsten. 3,483,238, 12-9-69, Cl. 260-429.
Murdock, Benjamin, to Fortuna Foundations, Inc. Foundation garment. 3,438,376, 4-15-69, Cl. 128-528.
Murdock, Clayton E.; Pugh, Donald J.; and Compton, Robert H. Stromberg-Carlson Corporation Method and means for selecting character inclination in cathode ray tube displays. 3,421,044, 1-7-69, Cl. 315-14.
Murdock, Forrest L., Sr. Electric treater regulated by a water-content probe for treating crude oil emulsions. 3,441,496, 4-29-69, Cl. 204-304.
Murdock, Forrest L., Sr. Horizontal electric emulsion treater. 3,476,678, 11-4-69, Cl. 204-308.
Murdock, Inc.: *See—*
McMillen, Harry E., 3,461,709.
Schaedel, Fred C., 3,473,103.
Murdock, James David; and Sharp, John Arthur, to Canadian Industries Limited. Particle board. 3,463,746, 8-26-69, Cl. 260-9.
Murdock, James W., to United States of America, Navy. System for regulating viscosity of liquids. 3,424,191, 1-28-69, Cl. 137-334.
Murdock, Keith Chadwick: *See—*
Angier, Robert Bruce; Murdock, Keith Chadwick; and Clark, Joe Haller,3,459,861.
Murdock, Robert E., to Shell Oil Company. Process for forming a corrosion resistant epoxy resin coating on a metal surface. 3,427,190, 2-11-69, Cl. 117-132.
Murdock, Robert W., to TRW Inc., mesne. Welding. 3,483,355, 12-9-69, Cl. 219-137.
Murex Limited: *See—*
Sherwood, Lionel Forrester, 3,443,600.
Murex Welding Processes Limited: *See—*
Chapman, Edwin Albert; Bartlett, Ronald Leonard; and Phelps, Brian, 3,466,417.
Matuhasi, Tyoku; and Kobayashi, Toshikazu, 3,457,344.
Murfin, Donald L.; and Miller, Leonard E., to Lubrizol Corporation, The. 2-Amido-2-alkenesulfonates. 3,478,091, 11-11-69, Cl. 260-513.
Murgio, Joseph M., to International Telephone and Telegraph Corporation. Pulse signal exchange. 3,438,002, 4-8-69, Cl. 340-172.5
Murie, Peter, Jr.; and Scotton, William R., to Skeena Kenworth Ltd. Trailer leg. 3,439,934, 4-22-69, Cl. 280-150.5
Murkes, Jakob; and Nilson, Carl-Goran, to Alfa-Laval AB. Centrifugal separator. 3,438,571, 4-15-69, Cl. 233-2.
Murley, Ellsworth M., Jr., to Owens-Illinois, Inc. Inspecting sealed containers in closed cartons. 3,451,546, 6-24-69, Cl. 209-73.
Murley, Ellsworth M., Jr., to Owens-Illinois, Inc. Metal closure detection in closed cartons. 3,484,685, 12-16-69, Cl. 324-58.5
Murley, Ellsworth M., Jr.: *See—*
Klawitter, Roland E.; Murley, Ellsworth M., Jr.; Rottmann, Hans R.; and Sebring, Lowell W.,3,466,452.

Muroga, Osamu: *See—*
Matsudo, Kazuo; Muroga, Osamu; and Hashimoto, Yukio,3,453,858.

Muroi, Soichi; and Takai, Shinzo, to Asahi Kasei Kogyo Kabushiki Kaisha. Binder compositions for granular substance- containing paints. 3,487,031, 12-30-69, Cl. 260-8.

Muromtsev, Boris Ivanovich: *See—*
Roschin, Vladislav Vasilievich; Muromtsev, Boris Ivanovich; Gusakov, Gennady Nilolaevich; and Maslov, Leonid Ivanovich,3,480,758.

Murono, Yoshiaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for producing bulky yarns. 3,439,393, 4-22-69, Cl. 28-72.

Murota, Shozaburo; and Yoshida, Masaharu, to Nippon Chuzo Kabushiki Kaisha. Stem-cranked, cam-adjusted butterfly valve assemblies. 3,477,690, 11-11-69, Cl. 251-163.

Murov, Isaac I.; Schloff, Morton J.; and Panno, Francis V. Oral appliance for leaning, stimulating and/or irrigating the mouth. 3,480,981, 12-2-69, Cl. 15-22.

Murph, Donald Bentley; and Pinkston, Jack L., to Southern Lead Company. Battery salvaging apparatus. 3,453,150, 7-1-69, Cl. 136-174.

Murphee, Burleigh R.: *See—*
Weeden, Frank G.; Pope, Gerald R.; Petrosky, Willard L.; and Murphee, Burleigh R.,3,435,853.

Murphree, Elwyn L.: *See—*
Cuculic, Gail E.; Tatom, Lynn D.; and Murphree, Elwyn L.,3,450,100.

Murphree, Francis J., to United States of America, Navy. Echo detection and ranging system. 3,458,854, 7-29-69, Cl. 340-3.

Murphy, Alfred M.; Filak, Carl M.; Long, Thomas P.; and Brown, John A., Jr., to Reynolds Metals Company. Apparatus for extruding tubular members from solid billets. 3,475,942, 11-4-69, Cl. 72-265.

Murphy, Allen Milton, Jr.; Retzke, Franklin Albert; and Johnson, John Raymond, to Borden Company, The. Method of making a lightweight fertilizer containing urea and formaldehyde. 3,479,175, 11-18-69, Cl. 71-29.

Murphy, Arthur J., to USM Corporation. Methods of making welted and outsoled true moccasins. 3,431,570, 3-11-69, Cl. 12-142.

Murphy, Bernard J., Jr.: *See—*
Rushing, Frank C.; Murphy, Bernard J., Jr.; Hauser, Ralph I.; and Shephard, Basil S.,3,474,976.

Murphy, Bernard T.: *See—*
Gummel, Hermann K.; and Murphy, Bernard T.,3,471,786.

Murphy, Bernard T. Bell Telephone Laboratories, Incorporated Time-scaled test circuit for semiconductive element having a current controlled charge storage model. 3,480,864, 11-25-69, Cl. 324-158.

Murphy, Charles F.: *See—*
Alexander, William J.; Murphy, Charles F.; and McEniry, Thomas E., Jr.,3,451,998.
Mitchell, Reid L.; Murphy, Charles F.; and Gwynn, John C.,3,424,744.

Murphy, Charles L., to Mobil Oil Corporation. Method of recovering oil using sacrificial agent and viscosifier. 3,478,823, 11-18-69, Cl. 166-274.

Murphy, Charles L., to Mobil Oil Corporation. Waterflooding with an aqueous, saline solution of a hydrocarbon sulfonate having an optimum degree of sulfonation. 3,480,080, 11-25-69, Cl. 166-252.

Murphy Chemical Company Limited, The: *See—*
Pianka, Max; and Edwards, John Duncan, 3,450,818.
Pianka, Max, 3,453,318.

Murphy, Clarence R.: *See—*
Cooper, Peter G.; Michelon, Philippe A.; and Murphy, Clarence R.,3,461,139.

Murphy, Daniel W.; Turnbull, John R., Jr.; and Walsh, James L., to International Business Machines Corporation. Non-saturating inhibit switching circuit. 3,483,398, 12-9-69, Cl. 307-214.

Murphy Diesel Company: *See—*
Cramer, Robert, Jr., 3,447,517.
Shook, David E., 3,439,876.

Murphy, Donald F., to Thiokol Chemical Corporation. Fuel control device. 3,426,534, 2-11-69, Cl. 60-258.

Murphy, Earl R.; and Shelton, Philip L., to Motorola, Inc. Ultrahigh frequency phase shifter. 3,465,254, 9-2-69, Cl. 325-376.

Murphy, Edwin M.: *See—*
Mitchell, Donald W.; Murphy, Edwin M.; Kawenski, Edward M.; Nagy, John; and Williams, Roger P.,3,482,637.

Murphy, Eugene W. Ore crusher. 3,450,355, 6-17-69, Cl. 241-46.

Murphy, F. F.: *See—*
Bailey, Charles R., 3,479,047.

Murphy, Frank H.; and Owen, Henry E. S., to General Electric Company. Electric circuit breaker with improved auxiliary device. 3,453,568, 7-1-69, Cl. 335-20.

Murphy, Frank M. Vibratory massager with traveling action. 3,446,204, 5-27-69, Cl. 128-33.

Murphy, Frank W., Jr.; and McMillian, Wayne. Magnetic switch. 3,452,308, 6-24-69, Cl. 335-166.

Murphy, Franklin L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,998.

Murphy, G. W., Industries, Inc.: *See—*
Biek, Paul A.; and Hoza, Martin D., 3,453,936.
Botefuhr, Harold R., 3,482,610.
Foody, Raymond O.; and Botefuhr, Harold Raymond, 3,465,479.
Hickernell, James L., 3,480,341.

Murphy, George W., to K & K Manufacturing, Inc. Liquid impelling means and seal therefor. 3,436,058, 4-1-69, Cl. 259-99.

Murphy, Harry C., Jr.: *See—*
Donaldson, Robert E.; Murphy, Harry C., Jr.; and Stauffer, Harry C.,3,481,863.

Murphy, Harry E., 1/2 to Spangler, Edwin L., Jr., and Wymore, Max L., d/b/a Anderson, Spangler & Wymore. Portable steam-cleaning apparatus. 3,477,645, 11-11-69, Cl. 239-136.

Murphy, Helen I. Pie shell shaper. 3,453,948, 7-8-69, Cl. 99-433.

Murphy, Herman H. Manually controllable load voltage regulator. 3,424,968, 1-28-69, Cl. 318-346.

Murphy, Howard E., to Fairchild Camera and Instrument Corporation. Frequency-selective negative feedback arrangement for phototransistor for attenuating unwanted signals. 3,463,928, 8-26-69, Cl. 250-214.

Murphy, James A., to Canadian International Paper Company. Disposable diaper. 3,430,629, 3-4-69, Cl. 128-284.

Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, to Canadian International Paper Company. Web folding apparatus and method. 3,472,504, 10-14-69, Cl. 270-40.

Murphy, James A.; Watkins, Cecil H.; Dewhurst, Ernest James; and Engel, Carl, to Canadian International Paper Company, mesne. Carton. 3,473,694, 10-21-69, Cl. 221-63.

Murphy, James A.: *See—*
Lee, Charles Allen; and Murphy, James A.,3,445,331.

Murphy, James F.: *See—*
Michelson, Christian E.; Murphy, James F.; and Montgomery, David C.,3,423,298.

Murphy, James J.: *See—*
Cubert, Jack S.; and Murphy, James J.,3,423,646.

Murphy, James P.: *See—*
Hamel, Conrad L.; Murphy, James P.; and Klink, John,3,482,323.

Murphy, James R., to Gulf Research & Development Company. Solvent decarbonizing process. 3,423,308, 1-21-69, Cl. 208-309.

Murphy, James. Birth control means. 3,464,409, 9-2-69, Cl. 128-129.

Murphy, John D. Welding hood ventilator. 3,467,965, 9-23-69, Cl. 2-8.

Murphy, John Eric: *See—*
Feenan, John; Jacks, Eric; and Murphy, John Eric,3,432,923.

Murphy, John, Jr. Power steering indication for automobiles. 3,463,032, 8-26-69, Cl. 74-495.

Murphy, John Phillip. Method of clarifying water and compositions used therefor. 3,428,558, 2-18-69, Cl. 210-59.

Murphy, Kenneth Earl; and Miller, Robert Deryl, to Deere & Company. Weight-transfer hitch. 3,463,511, 8-26-69, Cl. 280-405.

Murphy, L. R., Scale Company: *See—*
Marion, Clyde E., 3,442,343.
Murphy, Leslie R., 3,447,618.
Murphy, Leslie Roy, 3,444,942.

Murphy, Leslie Roy, to Murphy, L. R., Scale Company. Transportable scale with extensible deck. 3,444,942, 5-20-69, Cl. 177-126.

Murphy, Leslie R., to Murphy, L. R., Scale Company. Transportable tandem-type scale. 3,447,618, 6-3-69, Cl. 177-126.

Murphy, Milford R., to United States of America, Army, mesne. Time derivative computer. 3,448,255, 6-3-69, Cl. 235-183.

Murphy, Milo E. Exhaust muffler for combustion engines. 3,482,649, 12-9-69, Cl. 181-40.

Murphy, Norman B. Servovalve. 3,442,282, 5-6-69, Cl. 137-85.

Murphy, Oscar V., to Newaygo Engineering Company. Mold dumping. 3,448,873, 6-10-69, Cl. 214-46.22

Murphy, Patrick J., Jr.: *See—*
Murphy, Patrick J., Sr.; and Murphy, Patrick J., Jr.,3,438,717.

Murphy, Patrick J., Sr.; and Murphy, Patrick J., Jr. Cigarette lighters. 3,438,717, 4-15-69, Cl. 431-137.
Wick, Arne N.; and Murphy, Patrick J.,3,456,059.

Murphy, Raymond J. Twisting and tumbling belt. 3,432,163, 3-11-69, Cl. 272-60.

Murphy, Remington M.: *See—*
Mulligan, William A.; and Murphy, Remington M.,3,441,516.

Murphy, Richard John; and Cole, Robert Dwight. Method of producing a decorative coating on a surface. 3,446,644, 5-27-69, Cl. 117-25.

Murphy, Robert A., to General Electric Company. Aminoxyorganosilicon materials. 3,441,583, 4-29-69, Cl. 260-448.2

Murphy, Robert A., to General Electric Company. Curing system for room temperature vulcanizing organopolysiloxane elastomers. 3,458,469, 7-29-69, Cl. 260-37.

Murphy, Robert A., to General Electric Company. Aminoxycyclopolysiloxanes. 3,484,471, 12-16-69, Cl. 260-448.8

Murphy, Robert M.; Holland, John W.; and McDonald, Thomas M., to Hubbell, Harvey, Incorporated. Three-way switch with pilot light controlled by a photocell circuit. 3,440,429, 4-22-69, Cl. 250-215.
Murphy, Robert, to Heath, L. S., & Sons, Inc. Vibratory candy breaker and separator. 3,464,609, 9-2-69, Cl. 225-96.5
Murphy, Thomas A.: *See*—
Crowder, Wyly Kenneth; and Murphy, Thomas A.,3,485,182.
Murphy, Thomas L., Jr., 33% to Bluff Creek Industries, 11 2/3% to Bell, Bryan, and 3 1/3% to Bell, Rubie C., mesne. Process for defibering wet strength paper by multiple alkaline cooks. 3,425,897, 2-4-69, Cl. 162-8.
Murphy, Thomas L., Jr., to Reed, M. T. Construction Co. Method for treating corrugated waste paper and product produced thereby. 3,440,134, 4-22-69, Cl. 162-8.
Murphy, Thomas P.: *See*—
Bachman, Gustave Bryant; Golding, Brage; and Murphy, Thomas P.,3,448,086.
Murphy, Timothy C., to Arvin Industries, Inc. Scissors blades. 3,474,534, 10-28-69, Cl. 30-228.
Murphy, Walter E.: *See*—
Hamill, Ronald V.; and Murphy, Walter E.,3,441,932.
Murphy, Walter T., to Goodrich, B. F., Company, The. Process for producing microporous coatings on a textile fabric. 3,460,969, 8-12-69, Cl. 117-63.
Murphy, Willard G.: *See*—
Bufkin, Dale E.; Murphy, Willard G.; and Yount, Ronald E.,3,425,336.
Murphy, William J.: *See*—
Joseph, Robert J.; and Murphy, William J.,3,434,832.
Murphy, William S.: *See*—
Bialczak, Edward C.; and Murphy, William S.,3,431,109.
Murray, Alan E. Method of making leather footwear. 3,425,075, 2-4-69, Cl. 12-142.
Murray, Clarence, Jr. Zone selector actuated by vent line. 3,426,687, 2-11-69, Cl. 103-4.
Murray Company: *See*—
Day, Richard D.; and Neitzel, Joseph C., 3,437,033.
Murray Company of Texas Inc.: *See*—
Stone, Alan J., 3,438,686.
Stone, Guthrie B.; and Stone, Alan J., 3,439,964.
Murray Corporation: *See*—
Kish, Arthur S., 3,455,488.
Kish, Arthur S., 3,469,599.
Mauer, Charles K., 3,423,997.
Murray, Coyt E., to Impact Plastics, Incorporated. Loom picker with tab. 3,422,862, 1-21-69, Cl. 139-159.
Murray, Donald C.: *See*—
Stern, Albert I.; and Murray, Donald C.,3,458,971.
Murray, Donald E.; and Seelbach, Walter C., to Motorola, Inc. Normal and associative read out circuit for logic memory elements. 3,422,283, 1-14-69, Cl. 307-207.
Murray, Donald E.; and Seelbach, Walter C., to Motorola, Inc. Gated storage elements for a semiconductor memory. 3,437,840, 4-8-69, Cl. 307-247.
Murray, Donald H. Holder for skis and ski poles. 3,425,567, 2-4-69, Cl. 211-60.
Murray, Edward D.; and Kendall, Maureen S., to Labatt, John, Limited. Making cheese using a modified bacterial enzyme complex from the genus bacillus. 3,482,997, 12-9-69, Cl. 99-116.
Murray, Ernest E., to Zeeh-Murray Corporation, mesne. Metal finishing apparatus. 3,427,643, 2-11-69, Cl. 51-5.
Murray, Ernest E. Fruit picking apparatus. 3,451,202, 6-24-69, Cl. 56-328.
Murray, Fancher M., to Wyle Laboratories. Air modulated siren having Concentric cylinders. 3,453,616, 7-1-69, Cl. 340-404.
Murray, Francis T. Football. 3,425,693, 2-4-69, Cl. 273-65.
Murray, George W., 50% to Hinton, John L. Safety device for hydraulic brake systems. 3,433,330, 3-18-69, Cl. 188-151.
Murray, Hugh A., to I. D. L. Incorporated. Collapsible card display device. 3,483,742, 12-16-69, Cl. 40-124.
Murray, Jack T.: *See*—
Oropeza, Frank C.; and Murray, Jack T.,3,454,883.
Murray, Jack T.; and Childers, Homer D., to Melpar, Inc. Frequency compensation system. 3,433,903, 3-18-69, Cl. 179-100.2
Murray, Jacob. Elevating device for trailing wheel assemblies of dump trucks. 3,433,528, 3-18-69, Cl. 298-17.
Murray, James E.; and Klimo, Robert G., to TRW Inc. High frequency modulated static inverter. 3,436,644, 4-1-69, Cl. 321-18.
Murray, James E.; and Klimo, Robert G., to TRW Inc. High speed controlled switching circuit. 3,467,852, 9-16-69, Cl. 321-45.
Murray, James F.: *See*—
Rauch, William, 3,425,653.
Murray, James J.: *See*—
Cruger, Robert W.; Cheslock, Edward P.; Moore, Wiley I.; and Murray, James J.,3,466,598.
Murray, James R., to Lakewood Brick and Tile Company. Apparatus for producing mottled brick. 3,459,154, 8-5-69, Cl. 118-102.
Murray, Jerome L.; and De Long, Charles F. Hair waving device. 3,485,248, 12-23-69, Cl. 132-33.
Murray, John D.: *See*—
Deutsch, Daniel H.; Green, Stanley E.; Murray, John D.; and Saleeby, Edward W.,3,425,912.
Murray, John G.; Simon, Ellis D.; Bronner, George; and Edmonds, George D., to United States of America, Atomic Energy Commission. Heavy current arcing switch. 3,475,620, 10-28-69, Cl. 307-136.
Murray, John H.: *See*—
McCollough, John K.; and Murray, John H.,3,457,695.
Murray, Joseph F. Vehicle for golf bag. 3,439,929, 4-22-69, Cl. 280-18.
Murray, Leonard J. Pour spout adapter. 3,422,998, 1-21-69, Cl. 222-567.
Murray, Malcolm G. Plasterboard with a remoistenable plaster facing. 3,422,587, 1-21-69, Cl. 52-232.
Murray Manufacturing Company: *See*—
Knecht, George W., 3,432,781.
Murray Manufacturing Corporation: *See*—
Kobryner, Henry, 3,423,723.
Kobryner, Herman H., 3,479,104.
Norden, Alexander R.; and Knecht, George W., 3,467,799.
Murray, Margaret H.: *See*—
Byers, Donald J.; Leekley, Robert M.; and Murray, Margaret H.,3,474,071.
Murray, Michael Albert: *See*—
Wystrach, Vernon Paul; Lenick, Richard Vincent; and Murray, Michael Albert,3,464,869.
Murray, Myles N., to Industrial Electronic Rubber Company. Valve element with molded resilient tip. 3,445,089, 5-20-69, Cl. 251-358.
Murray, Ned. Screw conveyor. 3,463,300, 8-26-69, Cl. 198-213.
Murray, Norris N., to Koch, H., & Sons Inc. Pneumatic stimulator cushion. 3,446,203, 5-27-69, Cl. 128-24.2
Murray, Raymond P. Function generator apparatus. 3,436,640, 4-1-69, Cl. 221-2.
Murray, Robert L.: *See*—
Guertin, Robert W.; and Murray, Robert L.,3,473,569.
Murray, Robert M.: *See*—
Hatfield, John G.; and Murray, Robert M.,3,420,087.
Murray, Robert R.; and Smith, Glenn D., to Metal Improvement Company. Blade peening masking apparatus. 3,482,423, 12-9-69, Cl. 72-53.
Murray, Robert W., to Bell Telephone Laboratories, Incorporated. Di-(4-piperidyl)-alkanes as rubber antiozonants. 3,436,368, 4-1-69, Cl. 260-45.8
Murray, Robert W., to American National Valve Corporation. Automatic nozzle. 3,451,444, 6-24-69, Cl. 141-225.
Murray, Roger W., to Teledyne, Inc. Method of forming a flip-chip integrated circuit. 3,442,012, 5-6-69, Cl. 29-590.
Murray, Stephen F., to Mallory, P. R., & Co., Inc. Molded bobbin for synchronous motor. 3,448,306, 6-3-69, Cl. 310-83.
Murray, Stephen F.; and Chestnut, Benjamin F., to Mallory, P. R., & Co., Inc. Flex-shaft switch. 3,436,498, 4-1-69, Cl. 200-38.
Murray, Stephen F.: *See*—
Pervorse, Richard E.; Wiser, Joseph E.; Peterson, John A.; and Murray, Stephen F.,3,448,308.
Murray, Thomas C. Xerox Corporation Card transport apparatus. 3,482,917, 12-9-69, Cl. 355-75.
Murray, Thomas C.; and Roberts, Russell R., to Xerox Corporation. Optical system for reproduction machines. 3,421,818, 1-14-69, Cl. 355-42.
Murray, Thomas P., to United States Steel Corporation. Apparatus and method for measuring temperatures. 3,422,678, 1-21-69, Cl. 73-355.
Murray, Thomas P., to United States Steel Corporation. Apparatus for determining the emittance of a body. 3,483,378, 12-9-69, Cl. 250-83.3
Murray, William A.: *See*—
Smithers, John A.; and Murray, William A.,3,480,012.
Murray, William D.; and Tracy, Robert A., to Burroughs Corporation. Block oriented random access memory with a traveling domain wall field. 3,483,537, 12-9-69, Cl. 340-174.
Murray, William L., to United States Steel Corporation. Apparatus for mortaring upper end of bottom-inserted ladle nozzle. 3,484,841, 12-16-69, Cl. 25-1.
Murray, William R., III: *See*—
Burquez, Edward D., 3,458,667.
Murray, William; and Walker, Gordon Richard, to Filton Limited. Reversible mechanical seal. 3,441,284, 4-29-69, Cl. 277-9.
Murrell, Ruby E. Pie pan holder. 3,431,836, 3-11-69, Cl. 99-433.
Murrill, Nathaniel M.: *See*—
Herzog, Hershel L.; Gebert, William H.; Murrill, Nathaniel M.; and Groecela, Raymond,3,463,793.
Murrin, Julian Michael; and Olson, Raymond August, to FMC Corporation. Production of chlorinated cyanuric acid. 3,453,274, 7-1-69, Cl. 260-248.
Mursinna, Richard C., to Ametek, Inc., mesne. Closure member operating mechanism. 3,468,060, 9-23-69, Cl. 49-200.

Murtaugh, Thomas D.: *See—*
Sioles, George W.; Murtaugh, Thomas D.; and Ryan, John W.,3,484,799.

Murthy, Yelahanka Krishnamurthy Srinivas; and Testa, Emilio, to Lepetit S.p.A. Method of combatting herpes virus with 5-nitrouracil. 3,423,508, 1-21-69, Cl. 424-251.

Murvall, Ake Eugen, to ABU Aktiebolag. Line spreading device in fishing reels. 3,436,033, 4-1-69, Cl. 242-84.21

Murzyn, Robert A.: *See—*
Golden, Raymond; Murzyn, Robert A.; and Wilson, William E.,3,476,945.

Musante, Carlo; Donatelli, Leonardo; and Lotti, runo. (β diethylamino ethoxy)-furo-(2',3',6,7)- chromone. 3,483,194, 12-9-69, Cl. 260-240.

Musante, Thomas J., to Necessa Products Company. Decorative supporting hook assembly. 3,433,449, 3-18-69, Cl. 248-497.

Muschinskc, John E.: *See—*
Ladd, Frederick F., Jr.; Marsh, Lynn W., Jr.; and Muschinske, John E.,3,435,295.

Muschinske, Richard J.; and Silverberg, Bernard M., to Badger Meter Manufacturing Company. Nuclear magnetic resonance flow meter housing assembly. 3,471,774, 10-7-69, Cl. 324-0.5

Muse, Edison, Jr.: *See—*
Nugent, Arthur, 3,433,655.

Muse, George B. Wall construction method and apparatus. 3,430,403, 3-4-69, Cl. 52-437.

Muse, George B. Apertured wall construction. 3,430,404, 3-4-69, Cl. 52-439.

Muse, George B. Construction block. 3,479,782, 11-25-69, Cl. 52-438.

Muse, Louis Marcel, to Centre National de la Recherche Scientifique. Method and apparatus for measuring the ratio and phase relation of an electric field to a correlated magnetic field. 3,422,345, 1-14-69, Cl. 324-1.

Muselaers, Cornelis Johannes Maria, to Gebr. Stork & Co's Apparatenfabriek N.V. Device for internally and externally cleaning a tubular article. 3,438,078, 4-15-69, Cl. 15-88.

Muselik, Miloslav: *See—*
Janecek, Jaroslav; and Muselik, Miloslav,3,467,372.

Musgrave, Merrill N. Nut harvester. 3,463,406, 8-26-69, Cl. 241-86.

Musgrave, Orly, to Mast-Foos Manufacturing Company. Transmission unit. 3,457,798, 7-29-69, Cl. 74-473.

Musgrave, Orly, to Mast-Foos Manufacturing Company. Lawn mowers and like equipment. 3,460,325, 8-12-69, Cl. 56-25.4

Musgrove, Donald A. Bacon crisper. 3,466,998, 9-16-69, Cl. 99-349.

Musgrove, Johnnie J. Mowing machine. 3,433,003, 3-18-69, Cl. 56-26.

Musgrove, Ronald Obie; and McMillan, William Joseph, to General Electric Company. Apparatus for inspecting and overhauling turbine diaphragms. 3,432,048, 3-11-69, Cl. 214-41.

Mushina, Evgenia Aronovna: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Mushinsky, Albert, to General Precision Inc. Energy correlator employing crossed endless belts with slits therein. 3,437,816, 4-8-69, Cl. 250-206.

Musi Corporation: *See—*
Gaston, Paul, 3,460,211.

Musial, Joseph A.; and Vigor, Charles W., to General Motors Corporation. Apparatus for producing metal strips. 3,460,366, 8-12-69, Cl. 72-324.

Musial, Leo J. Filter unit for vehicle gas tanks. 3,456,799, 7-22-68, Cl. 210-91.

Music, William A., to Schwien Engineering, Inc. Manometer. 3,479,879, 11-25-69, Cl. 73-398.

Musican, Solomon, to Hol-Mark Machine Corporation. Device for marking a plurality of plies of material. 3,483,818, 12-16-69, Cl. 101-26.

Musig, Morris D.: *See—*
Compton, Asa B.; and Musig, Morris D.,3,453,773.
Dyer, James W.; Musig, Morris D.; and Compton, Asa Berkeley,3,455,049.
Dyer, James W.; Musig, Morris D.; and Compton, Asa B.,3,484,631.

Musikant, Solomon: *See—*
Krakauer, Sidney; Musikant, Solomon; and Rosenberg, David J.,3,429,681.

Musil, Petr: *See—*
Melkonjan, Gagik; Mikaeljan, Spartak; Elias, Jiri; Tyl, Miloslav; and Musil, Petr,3,452,209.

Musillo, Robert G. Locking ring for charm bracelets and the like. 3,427,823, 2-18-69, Cl. 63-3.

Musitronic, Inc.: *See—*
Michael, Stanley, 3,483,945.

Muska, William A.; Schacker, James C.; and McHattie, Earl E. Grounding connection for electrical unit. 3,432,793, 3-11-69, Cl. 339-14.

Muskalla, Ulrich Gunther. Magnetic float valve. 3,467,135, 9-16-69, Cl. 137-410.

Muskat, Irving E., to Sinclair Research, Inc. Chain terminated copolymers of styrene and maleic anhydride of low molecular weight. 3,451,979, 6-24-69, Cl. 260-78.5

Muskat, Josef: *See—*
Auler, Herbert; and Muskat, Josef,3,473,790.

Muskegon Piston Ring Company: *See—*
Hamm, Douglas W.; and Niyper, Kenneth J., 3,442,519.
Nisper, Kenneth J.; and Lakanen, Robert, 3,472,521.

Muskin Manufacturing Company, Inc.: *See—*
Barrera, Salvatore E., 3,466,676.

Muskovac, Nicholas G., to Sprague Electric Company. Proportional firing circuit. 3,473,101, 10-14-69, Cl. 318-334.

Muskovac, Nicholas G.: *See—*
Stone, Leonard R.; Reim, Thomas E.; Muskovac, Nicholas G.; and Cook, James E.,3,431,415.

Musolf, Martin C.: *See—*
McKellar, Robert L.; and Musolf, Martin C.,3,485,861.

Muspratt, E. Claire, executrix: *See—*
Muspratt, Paul M., deceased; and Muspratt, E. Claire, executrix,3,428,150.

Muspratt, Paul M., deceased; and Muspratt, E. Claire, executrix. Method and apparatus for gradual absorption of momentum. 3,428,150, 2-18-69, Cl. 188-1.

Mussbach, Horst Hermann, to International Standard Electric Corporation. Electromagnetic cylindrical miniature relay. 3,430,165, 2-25-69, Cl. 335-131.

Musschoot, Albert, to General Kinematics Corporation. Separating method and apparatus. 3,467,594, 9-16-69, Cl. 209-426.

Musse, Jean-Pierre; and Allard, Andre, to Societe Anonyme: Societe Lorraine de Laminage Coutinu. Lubricating device for rolling mills. 3,456,760, 7-22-69, Cl. 184-6.

Mussell, Dorsey R.: *See—*
Leasure, John K.; and Mussell, Dorsey R.,3,421,881.

Mussell, Dorsey R., to Dow Chemical Company, The. Control of aquatic plants with dithiodiundecanoic acid. 3,432,286, 3-11-69, Cl. 71-66.

Mussell, Dorsey R.; and Holmsen, Theodore W. Dow Chemical Company, The Aquatic herbicide. 3,421,880, 1-14-69, Cl. 71-66.

Musselman, Carl T.: *See—*
Irwin, Malcolm F.; Musselman, Carl T.; and Stanley, Robert K.,3,440,701.

Musselman, Robert K., to Servel (Canada) Limited. Electrolyte release valve and vent for reserve battery. 3,437,528, 4-8-69, Cl. 136-90.

Mussen, Guy A.: *See—*
Edwards, Aubrey T.; and Mussen, Guy A.,3,445,586.

Musser, C Walton: *See—*
Manning, Henry P.; and Musser, C Walton,3,427,648.

Musser, C Walton, to United Shoe Machinery Corporation. Harmonic drive power hinge pins. 3,435,705, 4-1-69, Cl. 74-640.

Musser, C. Walton, to United Shoe Machinery Corporation. Submergible antifriction bearings. 3,431,036, 3-4-69, Cl. 308-187.

Musser, Clair Omar. Visual tuner. 3,421,402, 1-14-69, Cl. 84-455.

Musser, James G., Jr.; and Boehm, Benjamin F., to General Motors Corporation. Independent rear wheel suspension. 3,422,918, 1-21-69, Cl. 180-73.

Musser, James G.: *See—*
Hall, James E.; Mrlik, Jerry R.; Musser, James G.; and Winchell, Frank J.,3,455,594.

Musser, Lester W.: *See—*
Kifor, Harry T.; Sprick, Walter F.; Musser, Lester W.; and Levesque, Charles R.,3,430,533.

Musso, Ferdinando Pasquale. Circular safety razor. 3,465,436, 9-9-69, Cl. 30-49.

Musso, Giuseppe; and Portal, Marcel, to European Atomic Energy Community (Euratom). Method of welding. 3,474,523, 10-28-69, Cl. 29-473.5

Musson, Chester G.: *See—*
Martens, Melvin; and Musson, Chester G.,3,487,458.

Mustacchi, Carlo; Gautsch, Othmar; and Wahl, Hartmut, to European Atomic Energy Community (Euratom). Process for the manufacturing of fuel elements. 3,427,702, 2-18-69, Cl. 29-400.

Mustafa, Farid M., to Cunningham, James, & Son, Co., Inc. Mechanical latching arrangement for electromechanically actuated switching matrix. 3,427,575, 2-11-69, Cl. 335-112.

Mustain, George V.; and Holliday, Sherman C. Crankcase ventilation valve and fuel economizer. 3,473,521, 10-21-69, Cl. 123-119.

Mustee, Bernard E., to Mustee, E. L., & Sons, Inc. Molded laundry tub. 3,427,664, 2-18-69, Cl. 4-183.

Mustee, E. L., & Sons, Inc.: *See—*
Mustee, Bernard E., 3,427,664.

Mustered, Lyle V.; and Simonds, George D., to Anthony Company. Steering control system. 3,424,023, 1-28-69, Cl. 74-471.

Mustian, William R., Jr., to Occidental Research & Engineering Limited. Novel phosphorus compositions and process. 3,453,074, 7-1-69, Cl. 23-165.

Mustian, William Roy, Jr.; and Austin, James, to Occidental Research & Engineering Limited. Production of phosphoric acids. 3,442,610, 5-6-69, Cl. 23-165.
Musumec, Alfred: *See—*
Birken, Karl, 3,478,589.
Mutchler, Paul A., to American Air Filter Company, Inc. Multifuel burner nozzle. 3,425,634, 2-4-69, Cl. 239-405.
Muth, Karl: *See—*
Aumuller, Walter; Weber, Helmut; Muth, Karl; Weyer, Rudi; and Schmidt, Felix,3,454,636.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Schmidt, Felix Helmut,3,448,149.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Peschke, Wilhelm,3,449,346.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Muth, Karl,3,435,116.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Felix,3,426,067.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Flix Helmut,3,454,635.
Weber, Helmut; Muth, Karl; Weyer, Rudi; Aumuller, Walter; and Schmidt, Felix Helmut,3,449,417.
Muth, Karl; Aumuller, Walter; Weyer, Rudi; and Weber, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Benzenesulfonyl ureas. 3,420,882, 1-7-69, Cl. 260-553.
Muths, Robert: *See—*
Asfazadourian, Michel; Muths, Robert; and Prillieux, Marcel,3,449,459.
Mutschler, Erich; and Schreiber, Franz, to SWF-Specialfabrik fur Autozubehor Gustav Rau G.m.b.H. Steering post mounted automotive vehicle lamp control switch with slidably adjustable contact control camming and locating means. 3,459,913, 8-5-69, Cl. 200-166.
Mutschler, Otto. Feed bar for fountain pen. 3,423,156, 1-21-69, Cl. 401-240.
Mutschler, William H., Jr.: *See—*
Goodman, Ernest A.; Mutschler, William H., Jr.; and Anderson, John M.,3,443,113.
Weber, Hans J.; and Mutschler, William H.,3,484,727.
Muttart, Vincent H.: *See—*
Deutscher, Abe; Muttart, Vincent H.; and Gilbert, Jack W.,3,432,631.
Muttelsee, Winfried: *See—*
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner,3,447,066.
Mutter, Charles J., to Boyertown Packaging Service Corporation. Scoring and separating a continuous length of material. 3,456,855, 7-22-69, Cl. 225-96.
Mutter, James F.; and Betts, William S. Tilting-platform playground toy. 3,475,019, 10-28-69, Cl. 272-55.
Mutter, Walter E.: *See—*
Ainslie, Norman G.; Chhabra, Devendra S.; Jepsen, Donald W.; and Mutter, Walter E.,3,474,530.
Barson, Fred; and Mutter, Walter E.,3,465,427.
Mutter, Walter E., to International Business Machines Corporation. Semiconductor device. 3,451,866, 6-24-69, Cl. 148-33.5
Mutter, Walter E.; and Totta, Paul A., to International Business Machines Corporation. Multilevel terminal metallurgy for semiconductor devices. 3,461,357, 8-12-69, Cl. 317-234.
Mutter, Walter F., to Morris, Philip Incorporated. Machine for test smoking cigarettes. 3,433,054, 3-18-69, Cl. 73-28.
Mutter, Walter F.; and Mathe, George L., to Morris, Philip, Incorporated. Apparatus for assembling continuous tubular article from two or more continuous partitubular sections. 3,481,817, 12-2-69, Cl. 156-383.
Mutter, Walter F.; and Watson, Duane C., to Morris, Philip, Incorporated. Apparatus for delivering samples to a gas chromatograph. 3,479,880, 11-25-69, Cl. 73--422.
Mutter, William W.: *See—*
Bennett, William O.; and Mutter, William W.,3,421,310.
Bennett, William O.; and Mutter, William W.,3,421,311.
Mutter, William W.; and Gruner, George P., to Bulova Watch Company, Inc. Day-date calendar timepiece. 3,439,493, 4-22-69, Cl. 58-58.
Mutterer, Heinz Karl, to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic shutter, and more particularly a self-cocking shutter, having one or more reciprocable shutter blades. 3,455,228, 7-15-69, Cl. 95-62.
Mutterer, Heinz Karl, to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic shutter with a brake wheel for exposure time regulation. 3,460,455, 8-12-69, Cl. 95-62.
Muttick, Richard P.; Di Vico, Louis A.; and Kantrowitz, Philip, to Sonotone Corporation. Stereophonic phonograph pickups with V-type stylus to transducer coupler and coupler damper. 3,426,163, 2-4-69, Cl. 179-100.41
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., to Richardson Company, The. Amino-ethylated novolaks. 3,461,099, 8-12-69, Cl. 260-59.
Muzyczko, Thaddeus: *See—*
Shore, Samuel; Muzyczko, Thaddeus; and Martin, Jerome A.,3,426,081.
MWA Company: *See—*
Reppenhagen, Arthur C., 3,445,967.
Reppenhagen, Arthur C., 3,451,170.
Myall, Norman John, 1/2 to Brown, S. G., Limited. Gyroscopes. 3,453,895, 7-8-69, Cl. 74-5.
Myasoed, Anatoly Eliseevich: *See—*
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Jakov Benediktovich,3,447,332.
Myatt, Charles Oliver: *See—*
Arlt, Herbert George, Jr.; and Myatt, Charles Oliver,3,438,918.
Myatt, Edward Ronald, to International Standard Electric Corporation. Weatherproof pushbutton key set employing sealed contacts operated by a permanent magnet. 3,448,419, 6-3-69, Cl. 335-206.
Myatt, Edward Ronald; Loveland, Ernest Frederick; and Woodhead, Harry Stanley, to International Standard Electric Corporation. Multiple contact miniature diaphragm relay. 3,460,077, 8-5-69, Cl. 335-152.
Myatt, James Kenneth, to British Titan Products Company Limited. Milling process. 3,448,931, 6-10-69, Cl. 241-20.
Mycroft, George H. Apparatus for mixing air and fuel for internal combustion engines. 3,470,858, 10-7-69, Cl. 123-139.
Myczinski, Alfred, to Vereinigte Flugtechnische Werke G.m.b.H., and 'Weser' Flugzeugbau/Focke-Wulf/Heinkel-Flugzeugbau. Aircraft closure flaps. 3,486,721, 12-30-69, Cl. 244-53.
Myer, Jon H., to Hughes Aircraft Company. Laser tool apparatus. 3,463,594, 8-26-69, Cl. 356-172.
Myerly, Richard C.; and Weinberg, Kurt, to Union Carbide Corporation. Methylation of pyridines. 3,428,641, 2-18-69, Cl. 260-290.
Myers, Albert F., to Boise Cascade Corporation. Plural axle vehicle without transfer case differential mechanism therefor. 3,451,496, 6-24-69, Cl. 180-23.
Myers, Allen J.: *See—*
Cunningham, James J.; Hall, Webster F.; and Myers, Allen J.,3,466,023.
Myers, Alva Robert; and McNulty, James A., to Dohrmann, Instruments Company. Electrolytic titration apparatus. 3,427,238, 2-11-69, Cl. 204-195.
Myers, Arthur L., to Erie Technological Products, Inc. Spark gap. 3,449,614, 6-10-69, Cl. 313-146.
Myers, Clarence M.: *See—*
Ernsthausen, Roger E.; and Myers, Clarence M.,3,485,664.
Myers, Clyde B., to Diamond Shamrock Corporation. Pickle liquor disposal. 3,468,797, 9-23-69, Cl. 210-42.
Myers, Clyde B.: *See—*
Sisson, Cecil G.; Foster, James L.; and Myers, Clyde B.,3,443,890.
Myers, Direk V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B., to Squibb, E. R., & Sons, Inc. Process for producing osteogenic material. 3,458,397, 7-29-69, Cl. 195-2.
Myers, Edward F.; and Port, John R., to Burroughs Corporation. Small low cost memory. 3,439,345, 4-15-69, Cl. 340-172.5
Myers, Edward F.; and Port, John R., to Burroughs Corporation. Wired core memory. 3,466,612, 9-9-69, Cl. 340-172.5
Myers, Eldred M.; and Schuls, Philip G., to General Electric Company. Apparatus for electrical waveform analysis. 3,452,278, 6-24-69, Cl. 324-77.
Myers, Elman B. Reciprocating vacuum pump. 3,471,079, 10-7-69, Cl. 230-53.
Myers, Everett M.: *See—*
Piskorski, John; and Myers, Everett M.,3,450,047.
Myers, F. E., & Bro. Co., The: *See—*
Heartstedt, Edmund; and Marshall, Neil, 3,460,566.
Wolford, Dale E., 3,443,763.
Wolford, Dale E., 3,446,424.
Myers, Felix E., to I-T-E Imperial Corporation, mesne. Fuse holder including coordinated operating means between fuse insertion and an associated circuit breaker device. 3,474,373, 10-21-69, Cl. 337-154.
Myers, Felix E.; and Goodnow, Weston W., to I-T-E Imperial Corporation, mesne. Circuit breaker thermal and magnetic tripping mechanism. 3,487,343, 12-30-69, Cl. 335-35.
Myers, George H.: *See—*
Parsonnet, Victor; Myers, George H.; and Lewin, Gerhard,3,476,116.
Myers, Gerald Lee: *See—*
TerWoerds, Francis John; and Myers, Gerald Lee,3,422,982.
Myers, Gordon S.; and Mepham, Timothy J., to American Home Products Corporation. Method of preparing 2-pyridine-aldoxime methochloride. 3,468,896, 9-23-69, Cl. 260-296.
Myers, Harry L.: *See—*
Holt, Lloyd Junior; and Myers, Harry L.,3,469,260.
Myers, Herbert Arthur; and Holzhei, Don Earl, to Deere & Company. Precision seed planting apparatus and method. 3,432,075, 3-11-69, Cl. 221-178.
Myers, Herbert: *See—*
Langley, Robert C.; and Myers, Herbert,3,428,476.
Myers, Herbert, to Mobil Oil Corporation. Lubricating compositions containing polysulfurized olefin. 3,471,404, 10-7-69, Cl. 252-45.

Myers, Herbert; and Kozacik, Alfred P., to Mobil Oil Corporation. Dithioethane derivatives and organic compositions containing the same. 3,481,871, 12-2-69, Cl. 252-45.

Myers, Herbert; Olszewski, William F.; and Butcosk, Richard A., to Mobil Oil Corporation. Grease compositions. 3,429,814, 2-25-69, Cl. 252-48.2

Myers Industries, Inc.: *See—*
Scott, Charles F., 3,428,385.

Myers, Jack A., to United States of America, Navy. Folding munition. 3,439,610, 4-22-69, Cl. 102-4.

Myers, Jack A., to United States of America, Navy. Quick disconnect. 3,448,653, 6-10-69, Cl. 89-1.

Myers, James E.: *See—*
Perez, Arthur; and Myers, James E.,3,478,535.

Myers, James F., to Black, Sivalls and Bryson, Inc. Method for testing relief valves. 3,485,082, 12-23-69, Cl. 73-4.

Myers, John Edmond, to TRW Inc. Thermal heat switch. 3,463,224, 8-26-69, Cl. 165-32.

Myers, John Leonard, to Porter, H. K., Company, Inc. Recessible electrical service device. 3,433,886, 3-18-69, Cl. 174-57.

Myers, John T.: *See—*
Weldon, Roger J.; and Myers, John T.,3,484,158.

Myers, John W., to Phillips Petroleum Company. Hydrogenation isomerization of aromatics and cycloparaffins. 3,441,624, 4-29-69, Cl. 260-666.

Myers, John W., to Phillips Petroleum Company. Isomerization catalysts and their use. 3,449,264, 6-10-69, Cl. 252-441.

Myers, John W.; and Johnson, Marvin M., to Phillips Petroleum Company. Dealkylation process and catalyst. 3,478,120, 11-11-69, Cl. 260-672.

Myers, Joseph Albert. Articulated snowplow shoe. 3,432,948, 3-18-69, Cl. 37-42.

Myers, Lawrence A., to Chore-Time Equipment, Inc. Ventilator unit. 3,479,947, 11-25-69, Cl. 98-116.

Myers, Louis. Can opener with mechanism for automatically moving the cutter between a cutting and release position in response to operation of the crank. 3,439,418, 4-22-69, Cl. 30-8.5

Myers, Lyell V., to Olin Mathieson Chemical Corporation. Process of forming sheet metal panels. 3,465,406, 9-9-69, Cl. 29-157.

Myers, Michael C.: *See—*
Sarsten, Jan A.; and Myers, Michael C.,3,479,832.

Myers, Neil O., to Du Pont de Nemours, E. I., and Company. Slub yarn process and product. 3,433,007, 3-18-69, Cl. 57-140.

Myers, Oscar, to International Telephone and Telegraph Corporation. Electrically controlled matrix. 3,467,945, 9-16-69, Cl. 340-166.

Myers, Philip E.: *See—*
Clark, Robert H.; and Myers, Philip E.,3,444,970.

Myers, Richard A., to McDonnell Douglas Corporation, mesne. Variable pressure drawpress and method. 3,420,089, 1-7-69, Cl. 72-351.

Myers, Richard A., to Litton Great Lakes Corporation. Method and apparatus for modular construction of a ship. 3,447,503, 6-3-69, Cl. 114-77.

Myers, Richard A.: *See—*
Heap, Forrest J.; and Myers, Richard A.,3,442,175.

Myers, Richard C.: *See—*
Baker, Allen J.; Death, Frank S.; Myers, Richard C.; and Farnsworth, Walter B.,3,422,206.

Myers, Richard T.; McKee, Thomas A.; Spangler, Fred E.; and Wright, Kenneth L., to General Electric Company. Multichannel communication receiver with automatic sampling and lock in on one channel. 3,470,481, 9-30-69, Cl. 325-470.

Myers, Robert A., to International Business Machines Corporation. Electro-optic storage device. 3,445,826, 5-20-69, Cl. 340-173.

Myers, Robert A.; and Pershan, Peter S., to International Business Machines Corporation. Standing wave electro-optic light modulator. 3,432,224, 3-11-69, Cl. 350-150.

Myers, Robert A.: *See—*
Pole, Robert V.; Myers, Robert A.; Barrekette, Euval S.; and Nunez, Jaen,3,440,561.
Pole, Robert V.; Wieder, Harold; and Myers, Robert A.,3,466,110.

Myers, Robert E.; and Westerberg, Eugene R. Rolling object game with elastic bed and probe. 3,482,837, 12-9-69, Cl. 273-109.

Myers, Robert E.: *See—*
Hansen, Wilbur W.; and Myers, Robert E.,3,434,863.

Myers, Robert Holt: *See—*
Lauck, Peter, III, 3,422,244.

Myers, Robert R. Swimming pool cleaner. 3,439,368, 4-22-69, Cl. 15-1.7

Myers, Robert R., to Printing Plate Supply Co. Method of producing printing plates. 3,473,470, 10-21-69, Cl. 101-401.

Myers, Robert R.; and Hayes, Fay A. Aquatic weed harvester. 3,468,106, 9-23-69, Cl. 56-9.

Myers, Ronald G., to Monsanto Company. Differential amplifier voltage comparison circuitry including a network for converting spurious normal mode signals to common mode signals. 3,456,128, 7-15-69, Cl. 307-235.

Myers, Ronald G.; Reid, Samuel C.; and Barton, David M., to Monsanto Company. Voltage to time-interval converter. 3,436,756, 4-1-69, Cl. 340-347.

Myers, Thomas E., to Vance, Norma J. Metal silicate coating utilizing electrostatic field. 3,436,257, 4-1-69, Cl. 117-213.

Myers, Walter E.: *See—*
Turner, Charles R.; Myers, Walter E.; and Manship, Luther P.,3,425,016.

Myers, Walter P. Mobile TV stand. 3,464,662, 9-2-69, Cl. 248-188.

Myers, Wayne E., to McGraw-Edison Company. Sheet feeding and spreading apparatus. 3,429,063, 2-25-69, Cl. 38-143.

Myers, William C.; and Granteer, David L., to Monsanto Company. Electrical control circuits. 3,443,151, 5-6-69, Cl. 315-169.

Myers, William D., to Baker Oil Tools, Inc. Retrievable well bore indexing apparatus. 3,424,246, 1-28-69, Cl. 166-127.

Myers, William D., to Baker Oil Tools, Inc. Apparatus and method for absorbing shock loads. 3,456,764, 7-22-69, Cl. 188-96.

Mykleby, Laurie G., to Republic Packaging Corporation. Sealed carton. 3,423,008, 1-21-69, Cl. 229-31.

Myles, Michael J.; Kupcikevicius, Vytautas; and Beckman, John H., to Union Carbide Corporation. Stuffing apparatus. 3,457,588, 7-29-69, Cl. 17-41.

Myles, Michael J.; Kupcikevicius, Vytautas; and Spellman, John P., to Union Carbide Corporation. Constant pressure filling apparatus. 3,451,098, 6-24-69, Cl. 17-35.

Myles, Thomas A., to Carborundum Company, The. Refractory insulating compositions. 3,467,535, 9-16-69, Cl. 106-64.

Myles, Walter E., to Singer-General Precision, Inc. Point light source. 3,439,157, 4-15-69, Cl. 240-1.

Mylonas, Thomas. Electrical window decoration. 3,446,953, 5-27-69, Cl. 240-10.

Myracle, James L.: *See—*
Ludewig, Frederick A., Jr.; and Myracle, James L.,3,487,400.

Myrick, Joseph C., to Rixon Electronics, Inc. Information encoding and transmitting apparatus. 3,476,876, 11-4-69, Cl. 178-17.

Myska, Gunter: *See—*
Hannemann, Franz; Landwehr, Gunter; Sugland, Wolfgang; and Myska, Gunter,3,443,540.
Landwehr, Gunter; and Myska, Gunter,3,485,193.

Myslinska, Celina: *See—*
Malinowska, Irena; Myslinska, Celina; and Urbanska, Ewa,3,484,187.

Mzaaei, Alessandro: *See—*
Marconi, Walter; Mzaaei, Alessandro; de Malde', Marcello; and Cucinella, Salvatore,3,432,516.

Mzyk, Heinrich: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.

Naarmann, Herbert: *See—*
Daumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert,3,476,831.
Dumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert,3,458,599.
Kastning, Ernst-Guenther; and Naarmann, Herbert,3,431,227.

Naarmann, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of copolymers of lactams and dienes. 3,481,923, 12-2-69, Cl. 260-239.3

Naarmann, Herbert; Hofmann, Hermann Pankraz; and Kastning, Ernst-Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of olefinically unsaturated compounds using π-olefin complexes as polymerization initiators. 3,454,538, 7-8-69, Cl. 260-78.5

Naarmann, Herbert; and Kastning, Ernst-Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of stereo block butadiene polymer. 3,476,830, 11-4-69, Cl. 260-879.

Naarmann, Herbert; Stabenow, Joachim; and Kastning, Ernst-Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,3-diene polymers in aqueous emulsion. 3,481,895, 12-2-69, Cl. 260-29.7

Naastepad, Pieter Aarat, to North American Philips Company, Inc. Method of making magnetically anisotropic permanent magnets. 3,432,369, 3-11-69, Cl. 148-101.

Nacci, George Raymond, to Du Pont de Nemours, E. I., and Company. Silica-coated magnetic tape. 3,476,595, 11-4-69, Cl. 117-239.

Nachazel, John S., to CF & I Steel Corporation. Coated barbed wire. 3,454,261, 7-8-69, Cl. 256-2.

Nachbur, Hermann; Berger, Alfred; Guth, Christian; and Maeder, Arthur, to Ciba Limited. Phosphorus-containing aminoplasts and process for their preparation. 3,423,369, 1-21-69, Cl. 260-67.6

Nachbur, Hermann; Werner, Robert; and Maeder, Arthur, to Ciba Limited. Copolymers of vinylidenechloride. 3,449,302, 6-10-69, Cl. 260p79.3
Nachf. Hense & Pleines G.m.b.H.: *See—*
Schwebel, Adolf, 3,477,324.
Nachf. Hense & Pleines G.m.b.H., & Co.: *See—*
Schwebel, Adolf, 3,426,963.
Schwebel, Adolf, 3,446,496.
Nachilla, Herbert: *See—*
Baltzer, Erich; Maydorn, Wolfgang; and Nachilla, Herbert,3,448,595.
Nachod, Frederick C.: *See—*
Ofelt, Chester W.; and Nachod, Frederick C.,3,482,994.
Nacht, Ronald L., to Tenney Engineering, Inc. Boundary seal for test chambers using a vibrator. 3,459,463, 8-5-69, Cl. 312-352.
Nachtsheim, Peter. Hinged double-hung windows. 3,442,049, 5-6-69, Cl. 49-164.
Nachtsheim, Peter. Window sash weather seals. 3,447,266, 6-3-69, Cl. 49-458.
Nack, Herman, to Battelle Development Corporation, The, mesne. Liquid encapsulation. 3,460,972, 8-12-69, Cl. 117-72.
Nada, Naohiro: *See—*
Yamashita, Tadaoki; Sakai, Kunio; Nada, Naohiro; and Kitamura, Saburo,3,485,766.
Nadai, Bela: *See—*
Ban, Tamas; Horvath, Lorand; Kaffka, Karoly; and Nadai, Bela,3,453,438.
Nadasan, Stefan; Sulea, Paul; Popescu, Dumitru; Schaumburger, Carol; and Bakonyi, Coloman. Composition material for railway vehicle brake shoes and a method of fabrication of brake shoes. 3,450,236, 6-17-69, Cl. 188-251.
Nadav, Eliahu: *See—*
Jaffe, Abram Aubrey; and Nadav, Eliahu,3,470,551.
Nadeau, Clarence S., to Bellavance, Inc. Adjustable end connector. 3,477,107, 11-11-69, Cl. 24-265.
Nadeau, Gale F., to Eastman Kodak Company. Antistatic film compositions and elements. 3,437,484, 4-8-69, Cl. 96-87.
Nadeau, Richard G., to Du Pont de Nemours, E. I., and Company. Enzymatic determination of nitrogen-containing compounds and enzymes reactive therewith. 3,485,723, 12-23-69, Cl. 195-103.5
Nadeau, Richard G.: *See—*
Johnson, Donald R.; Nadeau, Richard G.; Nieuweboer, Gerrit; and Truett, William L.,3,476,515.
Nadel, Moisei Simonovich: *See—*
Bromberg, Boris Moisfevich; Gauzner, Moisei Yakovlevich; Ljutsin, Ilya Samuilovich; and Nadel, Moisei Simonovich,3,435,714.
Nadella S.A.: *See—*
Pitner, Alfred, 3,447,848.
Pitner, Alfred, 3,469,896.
Pitner, Alfred, 3,473,855.
Pitner, Alfred, 3,473,857.
Pitner, Alfred, 3,478,540.
Pitner, Alfred, 3,479,100.
Nadensek, Edward H.: *See—*
Fischer, Donald A.; and Nadensek, Edward H.,3,481,379.
Nadherny, Rudolph E., to Illinois Railway Equipment Company. Detachable and lockable coupling between the distal end of an air brake hose and the support chain therefor. 3,422,964, 1-21-69, Cl. 213-1.
Nadherny, Rudolph E., to Illinois Railway Equipment Company. Chain locks and chain detachable therefrom for supporting a railway car air brake hose. 3,424,415, 1-28-69, Cl. 248-53.
Nadherny, Russell J.; and Moyer, Wendell W., Jr., to Daubert Chemical Company. Apparatus for dispensing adhesive materials. 3,430,816, 3-4-69, Cl. 222-146.
Nadler, Emanuel: *See—*
Peck, Samuel M.; and Nadler, Emanuel,3,482,274.
Nadler, Martin S. Moccasin. 3,471,948, 10-14-69, Cl. 36-11.
Nadvornik, Josef: *See—*
Svaty, Vladimir; Rambousek, Zdenek; and Nadvornik, Josef,3,435,854.
Naeder, Max: *See—*
Dachs, Karl; Wilhelm, Hans; Wick, Kurt; Schwenke, Wolfgang; and Naeder, Max,3,440,668.
Naegeli, Werner, to Pavena A.G. Process and apparatus for the continuous treatment of a staple fiber band or the like with liquid. 3,426,389, 2-11-69, Cl. 19-66.
Naegeli, Werner, to Pavena A.G. Process for the manufacture of a draftable staple fiber band of high density and breaking length. 3,432,889, 3-18-69, Cl. 19-66.
Naeser, Gerhard; Wessel, Otto; and Darschewski, Kurt, to Mannesmann Aktiengesellschaft. Die for the extrusion of heavy metals at high temperatures. 3,433,049, 3-18-69, Cl. 72-467.
Naeseth, Rodger L.: *See—*
Rogallo, Francis M.; and Naeseth, Rodger L.,3,443,779.
Naeve, Daniel A.: *See—*
Herr, John S., 3,483,008.
Naffa, Faisal A.: *See—*
Craighead, Philip B.; and Naffa, Faisal A.,3,449,872.
Naftulin, Henry, to Reese, Michael, Research Foundation. Blood administration method. 3,459,182, 8-5-69, Cl. 128-214.
Nagae, Tadashi: *See—*
Sugiyama, Mitsunori; Nakajima, Yosuke; and Nagae, Tadashi,3,420,668.
Nagae, Yuji: *See—*
Seto, Ichiro; Tanaka, Humikazu; Ishii, Yoshio; Nagae, Yuji; and Kitakata, Setsuo,3,449,405.
Nagafuji, Naohiro: *See—*
Suzuki, Kensei; Tamura, Shigeo; Kawachi, Yoshinori; and Nagafuji, Naohiro,3,477,550.
Nagahiro, Michinori: *See—*
Hosono, Hiroo; and Nagahiro, Michinori,3,480,230.
Nagai, Katsumi: *See—*
Matsuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi,3,484,604.
Matuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi,3,486,022.
Nagai, Kenichi: *See—*
Komuro, Isao; and Nagai, Kenichi,3,456,002.
Nagai, Manji: *See—*
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu,3,457,597.
Nagai, Masayuki: *See—*
Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Shoshin; Kato, Takahisa; and Nagai, Masayuki,3,457,247.
Nagai, Tamiji, to Sony Corporation. Transformerless voltage reducing rectifier circuit. 3,478,258, 11-11-69, Cl. 321-15.
Nagai, Torao; Aiura, Masanobu; Tanaka, Shuzo; and Chiba, Shu, to Tokyo Shibaura Electric Co., Ltd. Microwave heating apparatus. 3,437,777, 4-8-69, Cl. 219-10.55
Nagai, Toshihiko,: *See—*
Honjo, Satoru; and Nagai, Toshihiko,3,433,951.
Okubo, Kinji; Honjo, Satoru; and Nagai, Toshihiko,3,431,412.
Nagai, Yoshiharu: *See—*
Inouye, Mitsuji; and Nagai, Yoshiharu,3,471,102.
Nagai, Yoshiki; and Kita, Akira, to Yuasa Battery Company Limited. Battery charging regulator. 3,484,659, 12-16-69, Cl. 317-234.
Nagakuni, Masahiko: *See—*
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakuni, Masahiko,3,480,521.
Nagakura, Akira; Iyoshi, Koichi; Kuribara, Tomio; and Ishiwara, Yoshimi, to Sanyo Electric Co., Ltd., and Tokyo Sanyo Electric Co., Ltd. Tube-within-a-tube type heat exchangers. 3,453,840, 7-8-69, Cl. 62-324.
Nagakura, Mizuhiko: *See—*
Abe, Kazuo; Kokubo, Ryo; Yamada, Yumizuru; Nagakura, Mizuhiko; and Shima, Koji,3,432,274.
Kokubo, Ryo; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko,3,454,571.
Kokubo, Ryo; Takauwa, Yasuo; Koguchi, Mitsuhiro; and Nagakura, Mizuhiko,3,484,440.
Takahashi, Nobuhiko; Kokubo, Ryo; Nagakura, Mizuhiko; Koguchi, Mitsuhiro; and Murata, Atsuo,3,423,410.
Nagano, Hideo. Electric connector. 3,474,389, 10-21-69, Cl. 339-95.
Nagano, Masahiko: *See—*
Ohtsu, Tadayasu; and Nagano, Masahiko,3,483,319.
Nagano, Masashi: *See—*
Shimano, Keizo; and Nagano, Masashi,3,448,628.
Tarutani, Satoshi; Nagano, Masashi; and Nakada, Kikunori,3,453,899.
Nagano, Toshihiko; and Nakagawa, Takamichi, to Matsushita Electric Industrial Co., Ltd. Automatic return device for record players. 3,484,112, 12-16-69, Cl. 274-15.
Nagano, Yuji: *See—*
Samejima, Hirotoshi; Nagano, Yuji; and Ohta, Shigenori,3,450,712.
Naganuma, Yoshinori: *See—*
Kakegawa, Sadao; Matsuyama, Katsumi; and Naganuma, Yoshinori,3,424,689.
Nagao, Kameji: *See—*
Nishio, Fumihiko; and Nagao, Kameji,3,441,413.
Nagao, Masanori; Sato, Naotake; and Akashi, Takekazu, to Ajinomoto Co., Inc. Electrolytic method of converting polychloromethyl groups of organic compounds into monochloromethyl groups. 3,425,919, 2-4-69, Cl. 204-73.
Nagao, Morimasa; and Sakakibara, Naotaka, to Nippon Electric Company Limited. Piezoelectric electroacoustic transducer. 3,469,120, 9-23-69, Cl. 310-9.5
Nagarajan, Kuppuswamy, to Ciba Limited. Novel bibenzo [b,f] [1,4] oxazepin 11-ones. 3,423,402, 1-21-69, Cl. 260-239.3
Nagasawa, Kinzo, to Seikagaku Kogyo Co., Ltd. Process for the production of chondroitin polysulfate. 3,454,560, 7-8-69, Cl. 260-234.
Nagase & Co., Ltd.: *See—*
Ukita, Tomizo; Nakai, Masashi; Minami, Zenro; Yamazaki, Toshio; and Ootaka, Koda, 3,455,696.
Nagase, Kaneomi: *See—*
Hayakawa, Shigeru; Ouchi, Hiromu; and Nagase, Kaneomi,3,449,253.

Nagashima, Seiji, to Sato Kiko Kabushiki Kaisha. Device for printing and applying labels onto articles. 3,461,018, 8-12-69, Cl. 156-384.
Nagashima, Shinichi; Ooka, Takayuki; Mimura, Hiroshi; and Fujishima, Toshiyuki. Yawata Iron & Steel Co., Ltd. Low-temperature tough steel. 3,444,011, 5-13-69, Cl. 148-31.
Nagashima, Tatsuo; and Suganuma, Fujio, to TDK Electronics Company, Limited. Automatic sound volume controlling system. 3,444,323, 5-13-69, Cl. 179-1.
Nagashima, Yoshihisa: *See*—
Ozawa, Lyuji; Toshinai, Akio; and Nagashima, Yoshihisa,3,470,411.
Nagata, Kaneo. Dial gauge and the like measuring instrument. 3,464,118, 9-2-69, Cl. 33-172.
Nagata, Koetsu: *See*—
Ueda, Keizo; Nagata, Koetsu; Fujita, Kentaro; and Iwamoto, Kazukiyo,3,425,091.
Nagata, Kuniichi; and Miura, Akira, to Nippon Electric Company Limited. Echo suppressor for long-distance communication network. 3,465,106, 9-2-69, Cl. 179-170.2
Nagata, Minoru, to Hitachi, Ltd. Differential amplifier circuit employing multiple differential amplifier stages. 3,477,031, 11-4-69, Cl. 330-30.
Nagata, Muneyoshi: *See*—
Shida, Yukinao; and Nagata, Muneyoshi,3,455,428.
Nagata, Nobuyoshi; and Taniguchi, Shu. Nippon Paint Co., Ltd. Resinous compositions and method for production thereof. 3,466,266, 9-9-69, Cl. 260-78.5
Nagata, Shigeaki, to Mamiya Koki Kabushiki Kaisha. Single-lens reflex camera using cartridge film. 3,426,666, 2-11-69, Cl. 95-42.
Nagata, Takashi: *See*—
Kaname, Yuichi; Nagata, Takashi; Ishibashi, Michio; and Tsujimoto, Hiroshi,3,433,982.
Nagata, Takeo: *See*—
Kimura, Ichiro; and Nagata, Takeo,3,468,332.
Nagata, Wataru, to Shionogi & Co., Ltd.Alkyl cyano aluminum compounds and process for introducing a cyano group into an α,β-unsaturated carbonyl compound. 3,444,161, 5-13-69, Cl. 260-239.55
Nagata, Wataru; and Itazaki, Hiroshi, to Shionogi & Co., Ltd. Reduction method of carbonyl group. 3,429,876, 2-25-69, Cl. 260-239.55
Nagata, Wataru; Terasawa, Tadao; and Sugasawa, Tsutomu, to Shionogi & Co., Ltd. Phenanthrene compounds and processes of producing said compounds by reacting novel tetralone compounds with a reactive derivative of butan-2-one. 3,471,565, 10-7-69, Cl. 260-590.
Nagatomi, Masaaki: *See*—
Kitajima, Daishu; and Nagatomi, Masaaki,3,458,918.
Nagatsu, Hiroshi; Mimura, Yoshiaki; Izumi, Hideo; and Masuda, Yoshihiro, said Nagatsu and said Mimura assors. of 1/2 to Nippon Telegraph and Telephone Public Corporation, and said Izumi and said Masuda assors. of 1/2 to Shiba Electric Company Limited. Nonrectifying laminated ohmic contact for semiconductors consisting of chromium and 80% nickel. 3,436,614, 4-1-69, Cl. 317-234.
Nagatsu, Teisuke, to Kawasaki Kokuki Kogyo Kabushiki Kaisha. Compound helicopter. 3,448,946, 6-10-69, Cl. 244-17.19
Nagel, Ernst; and Steinmetz, Werner, to Luwa Ltd., mesne. Filter cleaning of traveling overhead cleaners. 3,464,078, 9-2-69, Cl. 15-312.
Nagel, Friedrich, deceased0 (by Nagel, Peter;0Nagel, Wolf; and0Fischer, Ursel; joint heirs). Honing tools. 3,430,401, 3-4-69, Cl. 51-331.
Nagel, George W., to Westinghouse Electric Corporation. Bin sensing mechanism. 3,485,058, 12-23-69, Cl. 62-137.
Nagel, Harry W., to Sun Oil Company. Distillation desalination of sea water using heated metal balls to vaporize water. 3,459,638, 8-5-69, Cl. 203-7.
Nagel, Peter: *See*—
Nagel, Friedrich,3,430,401.
Nagel, Peter; and Wagner, Gerhard. Honing tools. 3,468,078, 9-23-69, Cl. 51-346.
Nagel, Robert I.: *See*—
Zidron, Martin V.; Rau, Ben W.; and Nagel, Robert I.,3,452,188.
Nagel, Robert W., to American Standard Inc. Fold-up tub spout. 3,469,603, 9-30-69, Cl. 137-625.11
Nagel, Roger M., to Lubrizol Corporation, The. Process for preparing sulfenyl chlorides and organic thionophosphorus chlorides. 3,461,189, 8-12-69, Cl. 260-986.
Nagel, William S., to Eaton Yale & Towne, Inc. Three spring clutch. 3,472,346, 10-14-69, Cl. 192-35.
Nagel, Wolf: *See*—
Nagel, Friedrich,3,430,401.
Nagel-Schase Manufacturing Company: *See*—
Schultz, Edward H., Jr., 3,478,381.
Nagelberg, Elliott R., to Bell Telephone Laboratories, Incorporated. Dual-mode conical horn antenna. 3,482,252, 12-2-69, Cl. 343-786.
Nagele, Erwin: *See*—
Arendt, Alfred; Nagele, Erwin; and Wolf, Karl,3,485,226.
Nagele, Rudolf, to May-Pressenbau G.m.b.H. Safety device for machine tools. 3,452,618, 7-1-69, Cl. 74-612.
Nagelkirk, Preston; and Koning, Simon J., to Miller, Herman, Inc. Glueless furniture joint. 3,439,812, 4-22-69, Cl. 211-90.
Nagell, Carl Otto, to A/S Thunes Mekaniske Vaerksted. Fiber suspension distributor for the inlet of paper-making machines. 3,486,972, 12-30-69, Cl. 162-343.
Nager, Urs Felix; and Dursch, Friedrich, to Squibb, E. R., & Sons, Inc. Purification of streptomycin. 3,451,992, 6-24-69, Cl. 260-210.
Naget, Adolphe-Leon. Concrete road surfacing. 3,464,329, 9-2-69, Cl. 94-44.
Nagin, Harold, to Reliance Steel Products Company. Method for friction welding metal bars. 3,469,300, 9-30-69, Cl. 29-470.3
Nagin, Leon, to Reliance Steel Products Company. Friction locked grating and other open grid structures. 3,469,359, 9-30-69, Cl. 52-177.
Nagle, Elliott V.: *See*—
Baum, Werner H.; Crist, Joseph G.; and Nagle, Elliott V.,3,428,414.
Crist, Joseph G.; Manganaro, Carl R.; and Nagle, Elliott V.,3,455,852.
Nagle, Eugene: *See*—
Gange, Robert A.; and Nagle, Eugene,3,483,517.
Nagle, Floyd B., to Dow Chemical Company, The. Process for extruding high-impact thermo-plastic alkenyl aromatic polymers containing stereo- specific polybutadiene. 3,485,782, 12-23-69, Cl. 260-27.
Nagle, George D.: *See*—
Lewis, Jack R.; and Nagle, George D.,3,442,323.
Nagle, Richard E.: *See*—
Bunn, Dorrance P., Jr.; Jones, Henry B.; and Nagle, Richard E.,3,433,733.
Bunn, Dorrance P., Jr.; Jones, Henry B.; and Nagle, Richard E.,3,448,037.
Nagler, Stanley E. Shipping bin structure. 3,433,381, 3-18-69, Cl. 217-69.
Naglieri, Anthony N.; and Winnick, Charles N., to Halcon International, Inc. Process for preparing lactams. 3,449,326, 6-10-69, Cl. 260-239.3
Naglieri, Anthony N.: *See*—
Winnick, Charles N.; and Naglieri, Anthony N.,3,475,350.
Nago, Toshio: *See*—
Kubota, Hiroyuki; Mimino, Tohru; Fukuda, Yuh; Ishizu, Yoshio; and Nago, Toshio,3,443,934.
Nagoshi, Kazuo: *See*—
Fukushima, Osamu; Hayanami, Hiroshi; and Nagoshi, Kazuo,3,424,604.
Fukushima, Osamu; Nagoshi, Kazuo; and Noda, Kazuo,3,483,283.
Nakajo, Shogo; Sano, Shiro; Nagoshi, Kazuo; and Hosoda, Katsutoshi,3,481,765.
Nagowski, Jerzy Leslaw; and Hosciowicz, Marian. Circuit of a vacuum-tube, A.C.-coupled amplifier operating in conjunction with selective negative feed-back quadruples. 3,448,399, 6-3-69, Cl. 330-88.
Nagy, Daniel Elmer: *See*—
Chamberlain, Ralph Joseph; and Nagy, Daniel Elmer,3,438,970.
Nagy, Donald J.: *See*—
Walles, Wilhelm E.; and Nagy, Donald J.,3,465,674.
Nagy, Ernest J., to Pullman Incorporated. Combination pneumatic and gravity discharge gate. 3,451,726, 6-24-69, Cl. 302-52.
Nagy, Ernest John, to Pullman Incorporated. Combination pneumatic and gravity discharge gate for hoppers. 3,445,140, 5-20-69, Cl. 302-52.
Nagy, Francis G.: *See*—
Baron, Albert A.; and Nagy, Francis G.,3,435,341.
Nagy, Georges, to Ugine Kuhlmann, (societe anonyme), mesne. Method of preparation of betaine hydrate. 3,480,665, 11-25-69, Cl. 260-501.13
Nagy, Georges; and Balde, Daniel, to Ugine Kuhlmann, (Societe Anonyme), mesne. Hydroxyl containing polytertiary phosphates and process for producing same. 3,472,919, 10-14-69, Cl. 260-928.
Nagy, John , Jr., to Weston Instruments, Inc. Solid state relays. 3,474,258, 10-21-69, Cl. 307-235.
Nagy, John, Jr.: *See*—
Evans, Charles E.; and Nagy, John, Jr.,3,463,966.
Mitchell, Donald W.; Murphy, Edwin M.; Kawenski, Edward M.; Nagy, John; and Williams, Roger P.,3,482,637.
Nagy, Jules G., to Pacific Coast Engineering Company. Lifting spreader corner guides. 3,453,017, 7-1-69, Cl. 294-67.
Nagy, Jules G.; and Cooper, George W. Universal lifting spreader. 3,458,229, 7-29-69, Cl. 294-81.
Nagy, Roland L.; and Weiss, Ronald A., to Foster Wheeler Corporation. Steam stripping process with recycle water as a source of steam. 3,471,371, 10-7-69, Cl. 203-96.
Nagy, Stanley S.: *See*—
Wilhelm, George E.; and Nagy, Stanley S.,3,471,272.
Nagyvary, Joseph, to United States of America, Health, Education and Welfare. Synthesis of 3' 5' linked arabino- oligonucleotides. 3,463,772, 8-26-69, Cl. 260-211.5

Nahigian, David J. Artificial fishing lure. 3,440,755, 4-29-69, Cl. 43-42.06
Nahm, Helmut; Oppermann, Adolf; Hoffmann, Hinrich; Kornlein, Max; and Oppinger, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Mercapto-phenoxymethyl-penicillins. 3,461,116, 8-12-69, Cl. 260-239.1
Nahm, Helmut; Siedel, Walter; and Luding, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Penicillins and process for preparing them. 3,449,325, 6-10-69, Cl. 260-239.1
Nahodil, Robert S.; and Correll, Harold E., to Goodyear Tire & Rubber Company, The. Hydraulic actuated recessing tool. 3,422,705, 1-21-69, Cl. 77-58.
Naidenoff, John V.: *See—*
Hils, Neal C., 3,428,334.
Naidich, Herbert H.; and Mealy, John T., to Kollsman Instrument Corporation. Line accuracy enhancer. 3,441,346, 4-29-69, Cl. 355-7.
Naigaikogyo Kabushiki Kaisha: *See—*
Aoki, Toyohiko, 3,479,799.
Nail, Billie G.: *See—*
Scheffer, Joseph F.; and Nail, Billie G.,3,481,512.
Nail, Donald H., to McDonnell Douglas Corporation. Halogenated fluids. 3,432,436, 3-11-69, Cl. 252-78.
Nail, Donald H., to McDonnell Douglas Corporation, mesne. Fire resistant hydraulic fluid and lubricant compositions. 3,432,437, 3-11-69, Cl. 252-78.
Nail, Donald H., to McDonnell Douglas Corporation, mesne. Corrosion inhibited hydraulic fluids. 3,468,802, 9-23-69, Cl. 252-78.
Nail, Nelson R., to Eastman Kodak Company. Electrographic liquid developing apparatus. 3,435,802, 4-1-69, Cl. 118-637.
Nail, Nelson R., to Eastman Kodak Company. Thermally coupled image amplifier. 3,453,436, 7-1-69, Cl. 250-213.
Nailey Meter Company: *See—*
Stevens, Robert J., 3,454,767.
Naiman, Charles S.: *See—*
Wieting, Terence J.; Lawrence, Thomas R.; and Naiman, Charles S.,3,421,374.
Naiman, Michael A.: *See—*
Heintzelman, William J.; and Naiman, Michael A.,3,437,623.
Naimer, Hubert L., to Camin Laboratories, Inc. Process for making a hollow body with protective inner layer for high-temperature applications. 3,467,583, 9-16-69, Cl. 204-9.
Naimer, Jack: *See—*
Press, Jack J.; and Naimer, Jack,3,441,063.
Naismith, Thomas D.: *See—*
Bratten, Thomas A.; and Naismith, Thomas D.,3,476,443.
Naito, Atsushi: *See—*
Shirasaka, Makoto; Naito, Atsushi; and Tanabe, Katsumi,3,475,275.
Naito, Frank Y.: *See—*
Shallahamer, Roy A.; Naito, Frank Y.; and Bernes, Donald B.,3,429,981.
Naito, Hiroyuki: *See—*
Sugahara, Yujiro; Usui, Koichi; Naito, Hiroyuki; and Sakamoto, Masao,3,471,252.
Naito, Masashi, to Eizo Komiyama, mesne. Identification system. 3,477,156, 11-11-69, Cl. 40-2.2
Naito, Ryoichi; Oguro, Yoshigoro; and Murata, Yorihiko, to Green Cross Corporation, The. Process for preparing peptone for bacterial culture. 3,434,928, 3-25-69, Cl. 195-29.
Naito, Ryunosuke; and Yamada, Shoichi, to Kurashiki Rayon Co., Ltd. Stabilized vinyl acetate and process. 3,467,696, 9-16-69, Cl. 260-488.
Naito, Susumu: *See—*
Hayashi, Kanekichi; and Naito, Susumu,3,434,791.
Hayashi, Kanekichi; and Naito, Susumu,3,463,139.
Naito, Takayuki; and Nakagawa, Susumu, to Bristol-Banyu Research Institute, Ltd. Isothiazole synthesis. 3,479,365, 11-18-69, Cl. 260-302.
Naito, Takeo; Okano, Atsuji; and Miki, Tosaku, to Daiichi Seiyaku Company Limited, and Mitsubishi Chemical Industries Limited. Process for the production of trans-4- aminomethylcyclohexane-1-carboxylic acid. 3,449,411, 6-10-69, Cl. 260-514.
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru, to Daiichi Seiyaku Company, Limited. 1-(4'-Methyl-6'-methoxy-2'-pyrimidinyl)-3- methyl-5-methoxypyrazole. 3,426,023, 2-4-69, Cl. 260-256.4
Naito, Takeo: *See—*
Okano, Atsuji; Moroi, Reimei; and Naito, Takeo,3,448,144.
Naito, Toru; and Nishiyama, Michio, to Kabushiki Kaisha Maruto Seisakusho. Apparatus for cutting, grinding and polishing ornamental stone. 3,451,386, 6-24-69, Cl. 125-13.
Najer, Henry: *See—*
Giudicelli, Don Pierre Rene Lucien; and Najer, Henry,3,438,988.
Najmowicz, Matthew C.: *See—*
Drumm, John J.; and Najmowicz, Matthew C.,3,439,813.
Naka, Shinya: *See—*
Jotoku, Minoru; Naka, Shinya; and Inada, Naohiko,3,459,511.
Nakaba, Kiyoshi: *See—*
Sando, Yoshikazu; and Nakaba, Kiyoshi,3,448,498.
Sando, Yoshikazu; and Nakaba, Kiyoshi,3,468,617.
Nakada, Kikunori: *See—*
Tarutani, Satoshi; Nagano, Masashi; and Nakada, Kikunori,3,453,899.
Nakae, Takuro S.: *See—*
Schwarzkopf. Peter; and Nakae, Takuro S.,3,454,372.
Nakagawa, Henry: *See—*
de Man, Heiko T.; Roberts, George G.; and Nakagawa, Henry,3,430,187.
Nakagawa, Ichiro: *See—*
Tsuchiya, Shoji; and Nakagawa, Ichiro,3,443,216.
Nakagawa, Kazumi: *See—*
Fujita, Yoshimasa; Nakagawa, Kazumi; Shimoda, Keitaro; and Miyashita, Koji,3,434,276.
Nakagawa, Kazumi; and Kuratani, Keijiro, to American Cyanamid Company. Process for continuously preparing dyed filaments of acrylonitrile polymers. 3,483,576, 12-16-69, Cl. 8-55.
Nakagawa, Kazumi; Kuratani, Keijiro; Tsutsui, Nobuhiro; and Minami, Shinsaku, to Japan Exlan Company Limited. Method for the production of acrylonitrile composite fibers. 3,463,846, 8-26-69, Cl. 264-168.
Nakagawa, Kazumi; Tsutsui, Nobuhiro; and Sumi, Takehiko, to Japan Exlan Company Limited. Production of acrylic synthetic fibers. 3,451,140, 6-24-69, Cl. 34-12.
Nakagawa, Kazuo: *See—*
Takeuchi, Makoto; and Nakagawa, Kazuo,3,462,676.
Nakagawa, Keijiro. Cylinder comb. 3,456,302, 7-22-69, Cl. 19-234.
Nakagawa, Kei: *See—*
Nakai, Akira; Nakagawa, Kei; Kume, Kazunari; and Aida, Tadayoshi,3,469,389.
Nakagawa, Kichizaemon: *See—*
Yoshida, Hiroshi; Okabe, Hideo; Sasaki, Kenji; Nonaka, Hiroshi; Nakagawa, Kichizaemon; and Igarashi, Kiyoyuki,3,457,984.
Nakagawa, Kunio; and Nakata, Tadashi, to Shionogi & Co., Ltd. Process for preparing stereospecific polymers with the aid of metal peroxides. 3,427,290, 2-11-69, Cl. 260-78.4
Nakagawa, Kunio; and Nakata, Tadashi, to Shionogi & Co., Ltd. Telomerization process for the preparation of halogenated hydrocarbons. 3,429,934, 2-25-69, Cl. 260-649.
Nakagawa, Masataka: *See—*
Nishizawa, Yoshihiko; Nakagawa, Masataka; and Kimura, Akio,3,444,236.
Nakagawa, Ryoichi: *See—*
Ito, Shinya; Kanno, Katsuo; and Nakagawa, Ryoichi,3,481,683.
Nakagawa, Shigesaburo. Process of manufacturing jewelry chains using electroplating. 3,453,185, 7-1-69, Cl. 204-24.
Nakagawa, Shunshi; and Koike, Junichiro, to Shunshi Nakagawa. Device for indicating the interior pressure of a pneumatic tire. 3,451,418, 6-24-69, Cl. 137-227.
Nakagawa, Susumu: *See—*
Naito, Takayuki; and Nakagawa, Susumu,3,479,365.
Nakagawa, Takamichi: *See—*
Nagano, Toshihiko; and Nakagawa, Takamichi,3,484,112.
Nakagawa, Takehisa; and Asanuma, Rikio, to Hitachi Chemical Company, Ltd. Method for producing laminated plates of phenol type resin. 3,429,762, 2-25-69, Cl. 156-335.
Nakagawa, Thoshio William; and Rudy, Thomas P., to United Aircraft Corporation. Liquid-saturated carboxylated elastomers and process of manufacturing. 3,427,351, 2-11-69, Cl. 260-537.
Nakagawa, Toru: *See—*
Ikeda, Koichi; Minagawa, Katsuji; and Nakagawa, Toru,3,462,298.
Nakagawa, Toshio William: *See—*
Rudy, Thomas P.; and Nakagawa, Toshio William,3,442,726.
Rudy, Thomas P.; Nakagawa, Toshio W.; and Greendorfer, Joseph M.,3,480,488.
Nakagawa, Yasuichi, to Kabushiki Kaisha Daini Seikosha. Calendar watches. 3,451,211, 6-24-69, Cl. 58-58.
Nakagome, Eiko, to Yugen Kaisha Luxe. Film splice patch. 3,424,644, 1-28-69, Cl. 161-102.
Nakagome, Takenari; and Komatsu, Toshiaki, to Sumitomo Chemical Company, Ltd. Novel sulfanilylaminopyridazinone derivatives and their production. 3,420,819, 1-7-69, Cl. 260-239.7
Nakagome, Yukio: *See—*
Oshima, Shintaro; Nakagome, Yukio; and Fukata, Yasuo;3,476,878.
Nakaguchi, Kohei; Arai, Hirokazu; Kondo, Nakataro; and Manabe, Kuniyoshi, to Sumitomo Chemical Company, Ltd. Process for purifying terephthalic acid. 3,465,035, 9-2-69, Cl. 260-525.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Fujita, Toshimichi, to Sumitomo Chemical Company, Ltd. Copolymers of substituted norbornenes and olefins and process for producing the same. 3,478,002, 11-11-69, Cl. 260-79.5
Nakaguchi, Kohei; Kawasumi, Shohachi; Takagi, Kazumi; Fukuba, Kobo; Hirooka, Masaaki; and Fujita, Toshimichi, to Sumitomo Chemical Company, Ltd. Sulfur curable copolymers of olefins and iso-ethenyl norbornenes and method for production thereof. 3,472,824, 10-14-69, Cl. 260-80.78

Nakahara, Masataka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro, to Kanegafuchi Boseki Kabushiki Kaisha. Production of polyesters from lactones. 3,477,998, 11-11-69, Cl. 260-78.3

Nakahara, Mastaka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro, to Kanegafuchi Boseki Kabushiki Kaisha. Production ofα,α-disubstituted-β propiolactones. 3,436,406, 4-1-69, Cl. 260-343.9

Nakahara, Shigenobu: *See*—
Yotsuzuka, Masaru; Keshi, Akizo; Hashimoto, Norishige; Kodama, Katsuhisa; and Nakahara, Shigenobu,3,433,751.

Nakahara, Shigeru; and Toyoda, Yoichi, to Tsubakimoto Chain Mfg., Co., Ltd., The, and Asahi Glass Co., Ltd. Apparatus for branching off floating articles. 3,469,887, 9-30-69, Cl. 302-29.

Nakahara, Tadao. Form for concrete structures and particularly concrete catch basin units. 3,436,051, 4-1-69, Cl. 249-1.

Nakahara, Teiji; Fukunaga, Mitsuo; and Yamashita, Toshiyuki, to Murata Machinery, Ltd. Tensioning method and device of two-for-one yarn twisters. 3,445,998, 5-27-69, Cl. 57-58.84

Nakai, Akira; Nakagawa, Kei; Kume, Kazunari; and Aida, Tadayoshi, to Citizen Tokei Kabushiki Kaisha. Electromechanical vibrator assembly for a timepiece. 3,469,389, 9-30-69, Cl. 58-23.

Nakai, Masashi: *See*—
Ukita, Tomizo; Nakai, Masashi; Minami, Zenro; Yamazaki, Toshio; and Ootaka, Koda,3,455,696.

Nakai, Roy T.: *See*—
Ma, Joseph T.; and Nakai, Roy T.,3,435,442.

Nakai, Tsuneo; Minehisa, Setsuji; Fuchino, Yoshio; and Tsuchihira, Hisao, to Hitachi Zosen Kabushiki Kaisha. Method for fixing a backwave deposited metal onto the beveling root. 3,446,931, 5-27-69, Cl. 219-73.

Nakai, Yoshiaki: *See*—
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru,3,426,023.

Nakajima, Eizo: *See*—
Isobe, Akihiro; Fujinawa, Yutaka; Iwasaki, Kogi; Ikeda, Takeshi; Nakajima, Eizo; and Kobatake, Takashi,3,452,129.

Nakajima, Fusanori. Film spool. 3,458,149, 7-29-69, Cl. 242-68.4

Nakajima, Hitoshi: *See*—
Kominami, Naoya; Nakajima, Hitoshi; and Tamura, Nobuhiro,3,433,820.
Kominami, Naoya; Nakajima, Hitoshi; Watanabe, Itaru; Kimura, Takeo; and Sakurai, Tokio,3,465,028.

Nakajima, Isao: *See*—
Tamur, Kihachi; Nakajima, Isao; and Inoue, Kaname,3,461,148.

Nakajima, Junichi: *See*—
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru,3,420,744.

Nakajima, Nobuo: *See*—
Mackawa, Tatsuo; Nakajima, Nobuo; and Kagawa, Masaru,3,473,973.

Nakajima, Nobuo; Miyata, Koichi; Wada, Shyozo; and Shimazono, Hirao, to Takeda Chemical Industries, Ltd. Method for preparing condiments from yeasts. 3,443,969, 5-13-69, Cl. 99-140.

Nakajima, Saburo: *See*—
Yokota, Ryosukc; Nakajima, Saburo; Fukui, Toshio; and Fukuda, Kiyoshi,3,463,664.

Nakajima, Takeaki: *See*—
Komctani, Yutaka; Koizumi, Shun; Fumoto, Syozo; Tanigawa, Singo; and Nakajima, Takeaki,3,462,401.

Nakajima, Yasuyoshi, to Hitachi Shipbuilding and Engineering Co., Ltd. Water gate with means for preventing oscillations in overflow. 3,464,210, 9-2-69, Cl. 61-22.

Nakajima, Yoshihiko; and Hara, Kazumasa, to Janome Sewing Machinc Co., Ltd. Rotary loop forming device for sewing machines. 3,447,499, 6-3-69, Cl. 112-228.

Nakajima, Yosukc; Nishio, Daijiro; and Watarai, Syu, to Fuji Shashin Film Kabushiki Kaisha. Photographic sensitive materials containing morpholino alkylalkenoylamide polymers. 3,429,707, 2-25-69, Cl. 96-85.

Nakajima, Yosukc: *See*—
Sugiyama, Mitsunori; Nakajima, Yosuke; and Nagae, Tadashi,3,420,668.
Yano, Yasushi; Ucno, Wataru; Nishio, Fumihiko; and Nakajima, Yosukc,3,457,076.

Nakajima, Yozo, to Mitsubishi Denki Kabushiki Kaisha. Contact materials for vacuum switches. 3,437,479, 4-8-69, Cl. 75-170.

Nakajo, Shogo; Sano, Shiro; Nagoshi, Kazuo; and Hosoda, Katsutoshi, to Kurashiki Rayon Co., Ltd. Process for manufacturing sheet materials having a good gas permeability. 3,481,765, 12-2-69, Cl. 117-63.

Nakako, Osamu, to Tokai Loom Works Ltd. Device for automatically unwinding a weft out of a bobbin and an automatic bobbin changing device and a special bobbin therefor. 3,433,272, 3-18-69, Cl. 139-257.

Nakakubo, Isojiro; and Watanabc, Takcharu, to Yawata Welding Electrodc Co., Ltd. Brazing process. 3,461,543, 8-19-69, Cl. 29-498.5

Nakamatsu, Yoshio, to Hokushin Electric Works, Limited. Automatic film threading device. 3,421,673, 1-14-69, Cl. 226-92.

Nakamichi, Haruki, to Matsushita Electronics Corporation. Reinforced type cathode ray tube. 3,485,407, 12-23-69, Cl. 220-2.1

Nakamori, Tsuyoshi: *See*—
Matsui, Masao; and Nakamori, Tsuyoshi,3,459,846.

Nakamura, Akihide; Ito, Iko; and Kanbara, Kiyohiro, to Sumitomo Chemical Company, Ltd. Method for producing vinyl chloride polymers. 3,457,241, 7-22-69, Cl. 260-78.5

Nakamura, Hajima; and Akita, Yoshio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Welding process for high tensile strength steel. 3,484,930, 12-23-69, Cl. 29-497.

Nakamura, Hajime, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Method for manufacturing nitride-containing low- carbon structural steels. 3,432,368, 3-11-69, Cl. 148-12.

Nakamura, Hajime; Hori, Toshimitsu; and Sezaki, Kazuo, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. High strength aluminum alloy and its production method. 3,429,695, 2-25-69, Cl. 75-138.

Nakamura, Hajime; and Wada, Kamekichi, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha, and Yawata Iron & Steel Co., Ltd. Weldable high strength steel. 3,463,677, 8-26-69, Cl. 75-125.

Nakamura, Hiroshi; Manmo, Shiro; Ishizaki, Yasutaro; Saito, Tokuji; and Kato, Kin, to Nippon Carbide Kogyo Kabushiki Kaisha. Packaging machine. 3,473,288, 10-21-69, Cl. 53-58.

Nakamura, Katsuro, to Toko Kabushiki Kaisha. Woven type, magnetic memory device employing shielding terminal plates. 3,435,439, 3-25-69, Cl. 340-174.

Nakamura, Katsuro, to Toko Kabushiki Kaisha. Digit driver system for a high-speed magnetic memory device. 3,458,724, 7-29-69, Cl. 307-242.

Nakamura, Katsuro; and Watanabe, Shigetoshi, to Toko Kabushiki Kaisha. Woven-type, fixed memory. 3,478,337, 11-11-69, Cl. 340-174.

Nakamura, Kazuo: *See*—
Kudo, Tetsuo; Nakamura, Kazuo; Ogita, Teisuke; and Sudo, Yozo,3,439,301.

Nakamura, Ken; Shibata, Toshio; and Shimazu, Yasuyuki, to Konishiroku Photo Industry Co., Ltd. Heating apparatus for sheet-like material. 3,464,680, 9-2-69, Cl. 263-3.

Nakamura, Koichi. Flotation apparatus. 3,437,203, 4-8-69, Cl. 209-169.

Nakamura, Koichi: *See*—
Matsuzawa, Masanao; Imahashi, Issei; and Nakamura, Koichi,3,435,311.

Nakamura, Koji: *See*—
Tanigawa, Shizuhiko; Yabuno, Yoshio; Nakamura, Koji; Makamura, Takuji; and Fujimori, Nobuyoshi,3,422,230.

Nakamura, Kunio: *See*—
Kohashi, Tadao; Nakamura, Tadao; and Nakamura, Kunio,3,446,963.

Nakamura, Makoto: *See*—
Noda, Seijiro; and Nakamura, Makoto,3,451,322.

Nakamura, Makoto, to Nippon Kogaku K.K. Device for elevating and lowering the reflecting mirror of single lens reflex cameras. 3,474,715, 10-28-69, Cl. 95-42.
Oda, Teishiro; and Nakamura, Makoto,3,486,886.

Nakamura, Masanobu. Integral push rod and method of making same. 3,468,007, 9-23-69, Cl. 29-156.7

Nakamura, Masaru: *See*—
Okada, Takasi; and Nakamura, Masaru,3,457,473.

Nakamura, Michiei: *See*—
Horiguchi, Shojiro; and Nakamura, Michiei,3,462,388.
Horiguchi, Shojiro; and Nakamura, Michiei,3,467,642.

Nakamura, Nobuhiro: *See*—
Kobayashi, Shinzo; Onishi, Kumaichi; Kawakami, Akira; and Nakamura, Nobuhiro,3,482,049.

Nakamura, Nobuo: *See*—
Tanaka, Masao; and Nakamura, Nobuo,3,445,336.
Tanaka, Masao; Nakamura, Nobuo; and Takasawa, Seigo,3,461,113.
Tanaka, Msao; Nakamura, Nobuo; and Takasawa, Seigo,3,462,415.

Nakamura, Norio: *See*—
Iwai, Issei; and Nakamura, Norio,3,435,047.
Iwai, Issei; and Nakamura, Norio,3,435,048.

Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi, to Nihon Deshi Kabushiki Kaisha, and Nissin Electric Co., Ltd. Direct current high voltage generator. 3,484,866, 12-16-69, Cl. 321-15.

Nakamura, Shoichi: *See*—
Kamoji, Yoshiaki; and Nakamura, Shoichi,3,461,249.

Nakamura, Shuhei: *See*—
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo,3,428,555.

Nakamura, Susumu; and Shibazaki, Tadashi, to Nippon Gohsei Kagaku Kogyo Kabushiki Kaisha. Polyester resins from methy-cyclohexene tricarboxylic acid, methy-cyclohexane tricarboxylic acid or anhydride thereof and process of making the same. 3,477,976, 11-11-69, Cl. 260-22.

Nakamura, Tadao: *See*—
Kohashi, Tadao; Nakamura, Tadao; and Nakamura, Kunio,3,446,963.
Nakamura, Takeshi. Walking doll. 3,465,473, 9-9-69, Cl. 46-150.
Nakamura, Takeshi: *See*—
Teranishi, Tsunekazu; and Nakamura, Takeshi,3,456,063.
Nakamura, Tetsuya; and Kijima, Shizumasa, to Eisai Co., Ltd.Method of producing α-tocopheryl acid succinate. 3,459,774, 8-5-69, Cl. 260-345.5
Nakamura, Toshimitsu: *See*—
Sakaki, Fumio; and Nakamura, Toshimitsu,3,434,783.
Nakamura, Yoshio: *See*—
Arima, Kei; Tamura, Gakuzo; Narasaki, Teiiti; Nakamura, Yoshio; and Saiki, Takashi,3,431,175.
Tamura, Michio; and Nakamura, Yoshi,3,440,080.
Nakamura, Yukio: *See*—
Ichijo, Yasunori; and Nakamura, Yukio,3,425,328.
Nakanishi, Michio; Tahara, Tetsuya; and Maruyama, Yutaka, to Yoshitomi Pharmaceutical Industries, Ltd. 2-Methyl-3-phenyl-4(3H)-pteridinone. 3,426,022, 2-4-69, Cl. 260-251.5
Nakanishi, Michio; Tsuda, Atsushi; and Inamasu, Shuji, to Yoshitomi Pharmaceutical Industries, Ltd. Organophosphorus insecticides derived from mono-and di-oxo benzoxazines. 3,467,655, 9-16-69, Cl. 260-244.
Nakanishi, Nobuharu: *See*—
Ishihama, Atsumi; Ishida, Yuichi; and Nakanishi, Nobuharu,3,443,563.
Nakanishi, Ryoji; Yoda, Naoya; and Kurihara, Masaru, to Toyo Rayon Kabushiki Kaisha. Aromatic polyquinazolinediones and a process therefor. 3,424,728, 1-28-69, Cl. 260-77.5
Nakanishi, Ryoji: *See*—
Yoda, Naoya; Nakanishi, Ryoji; Kubota, Takashi; Kurihara, Masaru; and Ikeda, Kojyuro,3,468,851.
Nakanishi, Shoichi: *See*—
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi,3,459,538.
Nakanishi, Tetsuichiro, to Hitachi Zosen Kabushiki Kaisha. Indirect-cycle integral steam cooled nuclear reactor. 3,434,926, 3-25-69, Cl. 176-54.
Nakanishi, Toru: *See*—
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru,3,420,744.
Nakanishi, Tsunemoto: *See*—
Moriyama, Hiromi; Yamada, Hiroshi; Nakanishi, Tsunemoto; and Kiriyama, Toshikatsu,3,443,312.
Nakaniwa, Mikio: *See*—
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto,3,455,847.
Nakano, Akio, to Nichiro Kogyo Company, Ltd. Thermo-plastic tape or band bonding machine. 3,438,833, 4-15-69, Cl. 156-502.
Nakano, Keiji: *See*—
Yamaguchi, Hachiro; and Nakano, Keiji,3,442,902.
Nakano, Kunio. Small electric motor. 3,446,541, 5-27-69, Cl. 308-22.
Nakano, Mamoru: *See*—
Asano, Taisuke; Nakano, Mamoru; Sato, Yasuhiro; Shimodaira, Takashi; and Kamata, Keiko,3,470,238.
Nakano, Masahiro: *See*—
Emoto, Masayuki; and Nakano, Masahiro,3,459,674.
Nakano, Masayuki: *See*—
Kanbara, Shu; Takahashi, Akio; Nakano, Masayuki; and Hirose, Toshio,3,431,248.
Nakano, Taira; Goto, Asahiko; Yano, Kaname; and Shibata, Syojiro, to Kobe Steel Ltd. Explosive bonding of metals. 3,453,704, 7-8-69, Cl. 29-470.1
Nakano, Takashi: *See*—
Ueno, Tamotsu; and Nakano, Takashi,3,458,590.
Nakano, Yoshiaki: *See*—
Okamoto, Atutosi; Taniguchi, Koichi; and Nakano, Yoshiaki,3,467,443.
Nakao. Masaru: *See*—
Yamamoto, Hisao; Nakao. Masaru; and Maruyama, Isamu,3,479,348.
Nakaoka, Toshio: *See*—
Sonobe, Kozo; and Nakaoka, Toshio,3,457,293.
Nakasatomi, Masaru: *See*—
Maruyama, Minoru; and Nakasatomi, Masaru,3,481,906.
Okazaki, Kaoru; Nakasatomi, Masaru; and Maruyama, Minoru,3,446,782.
Nakashima, Eizo: *See*—
Asami, Atsumi; Ikee, Eitoku; Nakashima, Eizo; and Takata, Hirokichi,3,430,428.
Nakashima, Hirotaka; Maeda, Katsunosuke; Fukunaga, Togo; Suzuki, Satoru; and Matsuoka, Kenichiro, to Toyo Rayon Kabushiki Kaisha. Method of producing sprinkly colored fibrous material. 3,468,121, 9-23-69, Cl. 57-164.
Nakashima, Robert S. Fishing signal apparatus. 3,484,978, 12-23-69, Cl. 43-17.
Nakashima, Shigeo. Means for supplying packing bags. 3,462,917, 8-26-69, Cl. 53-386.
Nakata, Michio: *See*—
Misaka, Yoshisuke; Yamamori, Kakunosuke; Machida, Masahiro; and Nakata, Michio,3,442,104.
Nakata, Tadashi: *See*—
Nakagawa, Kunio; and Nakata, Tadashi,3,427,290.
Nakagawa, Kunio; and Nakata, Tadashi,3,429,934.
Otsu, Takayuki; and Nakata, Tadashi,3,474,461.
Nakata, Yuichi. Combined container and powder puff. 3,470,890, 10-7-69, Cl. 132-82.
Nakatani, Atsutada: *See*—
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Minoru, Ohtake,3,450,969.
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Otake, Minoru,3,461,786.
Nakaten, Herbert: *See*—
Braun, Oskar; Gross, Richard; and Nakaten, Herbert,3,446,569.
Nakatomi, Shunsuke: *See*—
Sugiura, Shotaro; Ueno, Haruo; Nakatomi, Shunsuke; Ishikawa, Hideo; and Inoue, Tosihiro,3,423,387.
Nakatsuka, Kazuo; Ide, Fumio; and Takamura, Masayoshi, to Mitsubishi Rayon Co., Ltd. Method for preparing trioxane-styrene and/or norbornylene copolymers and stabilization thereof. 3,448,070, 6-3-69, Cl. 260-33.4
Nakayama, Chozo; Kaku, Teiichi; Aizawa, Hiizu; and Iwamoto, Takeaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Specific filament yarns. 3,472,017, 10-14-69, Cl. 57-140.
Nakayama, Norihiko: *See*—
Owaki, Kenichi; and Nakayama, Norihiko,3,454,824.
Nakayama, Reikichi: *See*—
Gray, Alvin N.; Tamura, Yasuya; Shibata, Kojiro; and Nakayama, Reikichi,3,455,752.
Nakayama, Ryoichi: *See*—
Sakai, Yuji; and Nakayama, Ryoichi,3,433,896.
Nakayama, Shuzo: *See*—
Nakayama, Taisuke; and Nakayama, Shuzo,3,435,831.
Nakayama, Taisuke; and Nakayama, Shuzo, to Tokyo Gihatsu Seikei Company Limited. Wig or a toupee. 3,435,831, 4-1-69, Cl. 132-53.
Nakayama, Tommy; and Westermann, Donald H., to Miller Brewing Company. Frontal chromatographic separation and isomerization of humulone. 3,433,642, 3-18-69, Cl. 99-50.5
Nakayama, Yasuaki: *See*—
Teramoto, Kazuo; and Nakayama, Yasuaki,3,438,196.
Nakayama, Yoshihiro, to Japan Petroleum Development Corporation. Rotary bit for use in rotary drilling. 3,424,258, 1-28-69, Cl. 175-333.
Nakazawa, Bungo: *See*—
Ochi, Hiroshi; Taki, Hiroshige; Sugimoto, Kimio; Hayase, Yoshimi; and Nakazawa, Bungo,3,420,733.
Nakazawa, Junichi: *See*—
Sunagawa, Genshun; Soma, Nobuo; and Nakazawa, Junichi,3,453,286.
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; and Watatani, Mitsuo,3,461,131.
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; Watanabe, Taiichiro; and Sato, Yoshio,3,467,665.
Nakazawa, Katsuro: *See*—
Inoguchi, Toshio; Niwa, Ichihiko; and Nakazawa, Katsuro,3,433,602.
Nakazawa, Keito, to General Corporation, The. Method for synchronizing color television signals. 3,436,469, 4-1-69, Cl. 178-5.2
Nakazawa, Shinji; and Nakazawa, Tohru. Pressure balancing conservator for a transformer. 3,448,219, 6-3-69, Cl. 174-12.
Nakazawa, Tadamasa: *See*—
Tanabe, Katsumi; Hayashi, Ryozo; Morisawa, Yasuhiro; Hashimoto, Teruo; Nakazawa, Tadamasa; and Takasaki, Rinji,3,485,848.
Nakazawa, Tohru: *See*—
Nakazawa, Shinji; and Nakazawa, Tohru,3,448,219.
Nakazawa, Tokuo: *See*—
Tsukada, Tomomichi; Kabuki, Kimiaki; and Nakazawa, Tokuo,3,428,595.
Nakazawa, Yoshiyuki: *See*—
Nishio, Fumihiko; Nakazawa, Yoshiyuki; and Nasu, Kintaro,3,433,640.
Nakazima, Yoshiyuki; and Kozasa, Ken, to Citizen Watch Co., Ltd. Dual totaling mechanism for adding machines. 3,465,611, 9-9-69, Cl. 74-405.
Nakib, Ahmad A., to University of Minnesota, the Regents of, The. Toroidal heart valve. 3,438,394, 4-15-69, Cl. 137-533.19
Nakrin, Jerome: *See*—
Fresch, Eugene E.; Nakrin, Jerome; and Pillifant, Thomas G.,3,469,433.
Nalbantian, Stepan: *See*—
Jackson, Boris A.; Nalbantian, Stepan; and Remondino, Benedetto,3,448,507.
Nalco Chemical Company: *See*—
Albrecht, William L., 3,440,174.

Bott, Lawrence L., 3,479,274.
Chamot, Walter M.; and Burke, John T., 3,479,282.
Cochrane, Chappelle C., 3,427,233.
Cook, Hurley D., 3,457,776.
Craig, Richard L., 3,450,608.
Crawford, Jack D., 3,447,891.
Domba, Elemer, 3,422,027.
Eckerle, Nickolas C.; and Thompson, William H., 3,475,149.
Johnson, Carl E., 3,450,627.
Johnson, Carl E., 3,483,124.
Johnson, Edward E.; and Walker, Alfred O., 3,441,582.
Jursich, Myron J.; and Aitken, Thomas, 3,424,650.
Jursich, Myron J.; and Randich, Gail T., 3,450,680.
Kekish, George T., 3,438,941.
Kekish, George T., 3,457,230.
Klosak, Eugene J., 3,462,374.
Larsonneur, Louis C., 3,440,095.
Lutwitzi, Lawrence E.; and Gerlach, John L., 3,423,188.
Mayerle, Evan A.; and Craig, Richard L., 3,450,734.
Mayerle, Evan A.; and Hunter, Edward A., 3,458,410.
Mc Claflin, Gifford G.; and Jacocks, Claud L., 3,466,242.
Mindick, Morris; and Reven, Lewis E., 3,468,813.
Moore, Leslie D., 3,471,451.
Newman, Theodore R., 3,430,641.
Newman, Theodore R., 3,433,739.
Newman, Theodore R., 3,476,689.
Odland, Karsten, 3,429,835.
Oleen, Donald C., 3,480,083.
Overbeck, Charles J.; and Hickey, James J., 3,479,152.
Phillips, Kenneth G., 3,468,818.
Preece, Richard E., 3,445,250.
Privette, Walter R., 3,464,916.
Privette, Walter R.; and Domba, Elemer, 3,467,581.
Ptacek, Edward A.; and Garrett, David E., 3,424,565.
Robertson, Thomas M.; Overbeck, Charles J.; and Hickey, James J., 3,440,014.
Schmidt, Kenneth A.; and Odland, Karsten, 3,438,891.
Schmidt, Kenneth A., 3,458,439.
Schmidt, Kenneth A., 3,458,440.
Sibert, Frederick J., 3,445,187.
Stanford, James R., 3,424,681.
Stanford, James R.; and Vogelsang, Paul G., Jr., 3,477,956.
Strauss, Eugene O.; Walesa, Anthony C.; and Johnson, Carl E., 3,474,852.
Stucker, John F., 3,480,639.
Tant, Carl O.; Bennett, Edward O.; and Freebairn, Hugh T., 3,444,301.
Tant, Carl O.; Turner, Nan E.; and Bennett, Edward O., 3,470,096.
Thompson, William H.; and Ballweber, Edward G., 3,468,816.
Troscinski, Edwin S., 3,487,018.
Vogelsang, Paul G., Jr., 3,462,365.
Walker, Alfred O., 3,453,081.
Ward, William J., 3,425,823.
Wirth, Louis F., Jr.; and Robertson, Reed S., 3,432,428.

Nalle, George S., Jr. Apparatus for extruding plastic rugs. 3,429,004, 2-25-69, Cl. 18-13.

Nallin, Eugene J., to International Business Machines Corporation. Null sweeping head. 3,435,440, 3-25-69, Cl. 340-174.1

Nallinger, Friedrich K. H.; Muller, Alfred H.; Wirlitsch, Roland; and Hohn, Helmut, to Daimler-Benz Aktiengesellschaft. Rigid drive axle for motor vehicles. 3,420,327, 1-7-69, Cl. 180-43.

Nalodka, Edward C., to Ford Motor Company. Positive indexed tube connection. 3,486,531, 12-30-69, Cl. 138-103.

Nalpas, Raoul Michel, to Moulinage et Retorderie de Chavanoz, S.A. Process for the manufacture of a looped yarn and apparatus therefor. 3,445,994, 5-27-69, Cl. 57-12.

Nalpas, Raoul M.; and Prouvost, Pierre, to Moulinage et Retorderie de Chavanoz, S.A. Method and apparatus for making novelty yarn. 3,439,484, 4-22-69, Cl. 57-16.

Namba, Yasuhiro; Kessoku, Kazuo; Fujii, Tadayoshi; Ogura, Toshinobu; and Yoshiyama, Ichiro, to Minolta Camera Kabushiki Kaisha. Monocular narrow angle exposure meter. 3,476,028, 11-4-69, Cl. 95-42.

Nambride., Raymond F., to Enthone Incorporated. Bright, level tin plating. 3,479,259, 11-18-69, Cl. 204-54.

Nambride, Raymond F., to Enthone, Incorporated. Nickel electroplating. 3,484,345, 121-6-69, Cl. 204-49.

Name-Maker Corporation: *See*—
Greene, Oscar, 3,478,426.

Nameche, Alfred E.; and Norton, Walter. Ladder and support bracket therefor. 3,486,580, 12-30-69, Cl. 182-214.

Nameda, Naoyoshi; and Yonemoto, Sinji, to Tokyo Shibaura Electric Co., Ltd. Tungsten incandescent lamps with iodine halides. 3,475,649, 10-28-69, Cl. 313-223.

Namekata, Masaya: *See*—
Nitta, Yoshihiro; Namekata, Masaya; Tomita, Eiichi; and Hirota, Yusaku,3,432,489.

Namerow, Norman Stanley. Method for monitoring intrasomatic circulatory functions and organ movement. 3,483,860, 12-16-69, Cl. 128-2.05

Nametkin, Nikolai Sergeevich; Vdovin, Valentin Mikhailovich; and Zavyalov, Valery Ivanovich, to Institute Neftekhimicheskogo Sinteza im. S.V. Topchieva. Method for producing silylmethylene polymer [elastomer]. 3,422,039, 1-14-69, Cl. 260-2.

Namikata, Takeshi; and Kubo, Kazuo, to Fujitsu Limited. Method of etching aluminum foil in the manufacturing of aluminum electrolytic condensers. 3,477,929, 11-11-69, Cl. 204-141.

Namikawa, Shigeo: *See*—
Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao,3,477,999.

Namirowski, Adam M. Salt separating unit for baking apparatus. 3,448,698, 6-10-69, Cl. 107-43.

Namordi, Mooshi R.: *See*—
Havn, Svend E.; and Namordi, Mooshi R.,3,435,277.
Havn, Svend E.; and Namordi, Mooshi R.,3,445,716.

Nancarrow, James H.; and Holzhausen, Glen H., to Garrett Corporation, The. Turbocharger control arrangement. 3,423,926, 1-28-69, Cl. 60-13.

Nance, Charles W.: *See*—
Gilchrist, Ralph E.; and Nance, Charles W.,3,483,730.

Nance, Robert L., to Bell Telephone Laboratories, Incorporated. Dividing circuit based on amplitude to time conversion. 3,423,580, 1-21-69, Cl. 235-196.

Nance, Russell E., to United States Steel Corporation. Inside flash trimmer with remotely adjustable cutter. 3,420,143, 1-7-69, Cl. 90-24.

Nancy Originals: *See*—
Lothman, Mary F., 3,433,939.

Nanev, Zvetan: *See*—
Leyarovski, Evgeni Iliev; and Nanev, Zvetan,3,473,342.

Nani, Rakhim Khasan: *See*—
Abdullaev, Gasan Mamed Bagir Ogly; Nani, Rakhim Khasan; Nasirov, Yadulla Nusrat Ogly; Kuliev, Arif Zulfigarovich; Epshtein, Mikhail Grigorievich; and Kochkarev, Vladimir Ilich,3,472,652.

Nankivell, John E.: *See*—
Fajans, Jack; and Nankivell, John E.,3,473,401.

Nannelli, Piero Luigi; and Block, Burton Peter, to Pennwalt Corporation. Octa-μ_3-halo and alkoxy hexamolybdenum(II)alkoxides. 3,487,095, 12-30-69, Cl. 260-429.

Nanney, Cecil A., to Bell Telephone Laboratories, Incorporated. Stress modulation of electromagnetic radiation in semiconductors, with wide range of frequency tuning. 3,483,487, 12-9-69, Cl. 332-7.51

Nanney, Charles P.; and Moore, Ollis O., to Sun Drop Bottling Co., Inc. Machine for palletizing soft drink cases. 3,468,436, 9-23-69, Cl. 214-6.

Nannichi, Yasuo, to Nippon Electric Company, Limited. Twin semiconductor laser. 3,431,513, 3-4-69, Cl. 331-94.5

Nannichi, Yasuo, to Nippon Electric Company, Limited. Semiconductor compound lasers. 3,483,480, 12-9-69, Cl. 331-94.5

Nannini, Giuliano: *See*—
Giraldi, Pier Nicola; Lauria, Francesco; Fojanesi, Alessandro; Nannini, Giuliano; and Logemann, Willy,3,458,533.
Lauria, Francesco; Giraldi, Pier Nicola; Francavilla, Pier Nicola; Nannini, Giuliano; and Logemann, Willy,3,452,085.

Nano, Gian Mario; and Cabella, Paolo, to Collins Chemical Co., Inc. Purifying essential oil of Artemisia Pontica L.. 3,467,649, 9-16-69, Cl. 260-236.6

Nanosecond Systems, Inc.: *See*—
Saunders, William W., 3,453,747.

Nanowsky, John: *See*—
Behne, Neil J.; and Nanowsky, John,3,422,845.

Nantsune Tekko Kabushiki Kaisha (Nantsune Iron Works, Limited): *See*—
Nishimura, Hideaki, 3,473,587.

Nantz, Jack G.: *See*—
Maul, John A.; and Nantz, Jack G.,3,486,446.

Nanuk Inc.: *See*—
Hebert, Maurice E., 3,474,751.

Nanz, Ernst; Hagenah, Hans-Gerhard; and Knopfle, Walter. Automatic phonograph turntable. 3,425,703, 2-4-69, Cl. 274-15.

Napier, Donald R.: *See*—
Atwood, Mark T.; Napier, Donald R.; and Oertle, Donald H.,3,457,030.

Napier, Donald R., to Continental Oil Company. Process for manufacturing halomethylated alkyl aromatic compounds. 3,422,160, 1-14-69, Cl. 260-651.

Napier, John T. Mounting assembly for portable partitions. 3,462,904, 8-26-69, Cl. 52-402.

Napier, John; Sopher, Raeman P.; Totta, Paul A.; De Witt, David; and Karan, Clarence, to International Business Machines Corporation. Method of forming solder mounds on substrates. 3,458,925, 8-5-69, Cl. 29-578.

Napier, Roger P.: *See*—
Kaufman, Harold A.; Napier, Roger P.; and Gough, Stanley T. D.,3,469,004.

Napolitano, Guy C., to Western Research and Scientific Laboratories, Inc. Compacting machine. 3,427,960, 2-18-69, Cl. 100-218.

Napolitano, John P.; and Closson, Rex D., to Ethyl Corporation. Side chain alkylation. 3,449,455, 6-10-69, Cl. 260-668.
Napolitano, Pellegrino E., to Hudson Engineering Company. Valve structure for self-priming pumps. 3,425,436, 2-4-69, Cl. 137-107.
Napolitano, Pellegrino E., to Hudson Engineering Company. Combination of relief pressure mechanism and valve. 3,451,417, 6-24-69, Cl. 137-117.
Napolitano, Pellegrino E. Fluid control system with zero leakage. 3,452,781, 7-1-69, Cl. 137-627.5
Napolitano, Pellegrino E., to Hudson Engineering Company. Differential pressure sensitive valve system for self-priming liquid-type pumps. 3,481,274, 12-2-69, Cl. 103-113.
Napolitano, Pellegrino E. Relief and bypass valve apparatus. 3,483,886, 12-16-69, Cl. 137-493.
Napor, Carl A.; and Engel, William T., to Kahle Engineering Company. Method and means for perforating and exposing webs of film and paper. 3,466,128, 9-9-69, Cl. 355-89.
Napor, Carl A.; Engel, William T.; and Krumm, Charles G., to Kahle Engineering Company. Method and means for loading film cartridges. 3,457,627, 7-29-69, Cl. 29-430.
Napora, Nicholas, to Dresser Industries, Inc. Degasser device. 3,422,857, 1-21-69, Cl. 138-143.
Napora, Nicholas, to Harbison-Walker Refractories Company. Metallurgical degasser vessels. 3,429,565, 2-25-69, Cl. 266-43.
Nappen, Bernard H.: *See*—
Marotta, Nicholas G.; Boettger, Richard M.; Nappen, Bernard H.; and Szymanski, Chester D.,3,455,838.
Napple, Charles E., to United States of America, Navy. Method of connecting a fiberglass rodlike member to a metallic terminal. 3,461,539, 8-19-69, Cl. 29-461.
Nara, Jiuichi. Device having rotating members for separating powder into fine and coarse particles. 3,455,449, 7-15-69, Cl. 209-139.
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, to Kyowa Hakko Kogyo Co., Ltd.Process for producing purine nucleoside-5'-triphosphates. 3,444,040, 5-13-69, Cl. 195-28.
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, to Kyowa Hakko Kogyo Co., Ltd. Process for producing inosinic acid. 3,458,398, 7-29-69, Cl. 195-28.
Naradi, narodni podnik: *See*—
Curn, Frantisek, 3,440,774.
Koudelka, Vladimir, 3,433,329.
Narasaki, Teiiti: *See*—
Arima, Kei; Tamura, Gakuzo; Narasaki, Teiiti; Nakamura, Yoshio; and Saiki, Takashi,3,431,175.
Narayanan, Venkatachala L., to Squibb, E. R., & Sons, Inc. Adamantyl-s-triazines. 3,471,491, 10-7-69, Cl. 260-249.9
Narayanan, Venkatachala L.; and Bernstein, Jack, to Squibb, E. R., & Sons, Inc. Adamantyl thiadiazoles. 3,483,204, 12-9-69, Cl. 260-253.
Narbut, Paul, to Westinghouse Electric Corporation. Vapor cooled electrical transformer. 3,444,308, 5-13-69, Cl. 174-15.
Narbut, Paul; and Moore, Curtis L., to Westinghouse Electric Corporation. Non-condensable gas-condensable vapor cooled electrical transformer. 3,452,147, 6-24-69, Cl. 174-16.
Nard, Wallace D., to Electrographic Corporation. Resilient printing plate. 3,425,347, 2-4-69, Cl. 101-376.
Nardone, Joseph P., to Gleason Works, The. Machine tool spindle and workholder actuating mechanism. 3,468,552, 9-23-69, Cl. 279-4.
Nardontonia, John A., to Jerrold Electronics Corporation. Field strength meters having a plurality of scales and including means for indicating the scale to be observed and the multiplying factor to be applied. 3,479,592, 11-18-69, Cl. 324-115.
Nardozza, Vincent J., to United States of America, Air Force. Radio direction finder histogram processing system. 3,474,450, 10-21-69, Cl. 343-113.
Nardulli, Michael J. Tiltable window construction. 3,466,800, 9-16-69, Cl. 49-174.
Nargund, Pandurang Krishnacharya, to American Cyanamid Company. Production of sulfaguanidine. 3,461,143, 8-12-69, Cl. 260-397.7
Nariai, Noriyuki: *See*—
Okutsu, Shinkichi; Nariai, Noriyuki; Takagi, Takeshi; and Uehara, Keijiro,3,447,958.
Narisada, Masayuki, to Shinogi & Co., Ltd.3-Oxygenated-5-oxymethyl-5α-androstene derivatives and preparation thereof. 3,478,150, 11-11-69, Cl. 424-241.
Narisawa, Shizuo: *See*—
Fukui, Kenichi; Kagiya, Tsutomu; Narisawa, Shizuo; Maeda, Taneo; and Kobata, Mikio,3,476,712.
Narita, Takeki. Portable scavenging means for removing feces of animals and other untouchable solids. 3,431,008, 3-4-69, Cl. 294-55.
Narken, Bernt; and Whitaker, Howard L., to International Business Machines Corporation. Method for depositing glass particles on the entire exposed surface of an object. 3,437,505, 4-8-69, Cl. 117-23.
Narud, Jan A.; and Seelbach, Walter C., to Motorola, Inc. Line driver circuits adapted to drive highly capacitive loads. 3,440,551, 4-22-69, Cl. 330-13.
Narukiyo, Yasumasa, to Okuma Machinery Works Ltd. Nonambiguous reading system for analog to digital converters. 3,478,346, 11-11-69, Cl. 340-347.
Naruszewicz, Eustachy: *See*—
Unterschuetz, Zdzislaw; Naruszewicz, Eustachy; and Kaus, Tadeusz,3,451,849.
Nasca, Anthony V.; and Bacon, John F., to General Electric Company. Polyphenylene oxide resin bonded glass fibrous sheet and process therefor. 3,476,637, 11-4-69, Cl. 161-93.
Nasco Design Corporation: *See*—
Schweizer, Max Norman, 3,453,598.
Nasco Doll Inc.: *See*—.
Troy, Nathan, 3,464,150.
Naselow, Arthur B., to Du Pont de Nemours, E. I., and Company. Plural coated electrical conductor. 3,442,703, 5-6-69, Cl. 117-218.
Naselow, Arthur B., to Du Pont de Nemours, E. I., and Company. Novel polyamide-imides from tricarboxylic acid anhydride and dianhydrides. 3,485,796, 12-23-69, Cl. 260-47.
Naseth, Dwight D.: *See*—
Buck, Norman R.; and Naseth, Dwight D.,3,453,169.
Nash, Benjamin C.; and Fitch, James B., to Nash Engineering Company, The. Vapor compression distillation with lobe ring compressor. 3,455,791, 7-15-69, Cl. 203-24.
Nash, Carlton S. Composition and methods for treating fowl having leukosis. 3,482,017, 12-2-69, Cl. 424-180.
Nash, Dudley O., to General Electric Company. Thrust vectoring exhaust system. 3,480,236, 11-25-69, Cl. 244-53.
Nash, Dudley O., to General Electric Company. Gas turbine engine bearing assembly. 3,484,144, 12-16-69, Cl. 308-178.
Nash, Edmund G.; Kamal, Marwan R.; and Aelony, David, to General Mills, Inc. 1,4-Bis-(isocyanato-and isothiocyanatomethyl)-1- phenyltetrahydronapthalene. 3,455,981, 7-15-69, Cl. 260-453.
Nash Engineering Company: *See*—
Libby, Clarence R., 3,441,324.
Nash Engineering Company, The: *See*—
Adams, Harold E, 3,421,289.
Nash, Benjamin C.; and Fitch, James B., 3,455,791.
Nash, Floyd M.: *See*—
Jacuzzi, Candido; Nash, Floyd M.; and Baroody, Anas J.,3,427,662.
Nash, Floyd M., to Jacuzzi Bros., Incorporated. Skimmer assembly and included weir assembly. 3,428,178, 2-18-69, Cl. 210-121.
Nash, Floyd M., to Jaccizzi Bros., Incorporated. Filter assembly including a float supported, collapsible filter element. 3,442,385, 5-6-69, Cl. 210-109.
Nash, Geoffrey James Chetewoode; and Harding, Keith, to United Kingdom Atomic Energy Authority. Containers for transporting radioactive and/or fissile materials. 3,432,666, 3-11-69, Cl. 250-108.
Nash, Harold W.: *See*—
Jeffries, Dan W., 3,443,669.
Nash, James L., to General Electric Company. Method of sealing gas transfer devices. 3,429,757, 2-25-69, Cl. 156-70.
Nash, John E.; Medenblik, Henri J.; Thomas, Lyndon A.; and Wilstead, Graham H., to New Brunswick Research and Productivity Council, The. Hydraulic-mechanical power transmission system. 3,438,201, 4-15-69, Cl. 60-52.
Nash, John J., to Alsco, Inc. Apparatus for assembling and securing components of a furniture cushion. 3,438,108, 4-15-69, Cl. 29-91.5
Nash, John J., to Alsco Inc. Rocket launcher fairings. 3,456,552, 7-22-69, Cl. 89-1.817
Nash, John L. Automatic safety parking brakes. 3,454,126, 7-8-69, Cl. 180-82.
Nash, John L.: *See*—
Stousland, Olav; and Nash, John L.,3,452,561.
Nash, L. W., Company: *See*—
Nash, Terry W., 3,430,794.
Reed, Duane C., 3,438,593.
Nash, Lawrence M.; and Taylor, Donald F., to Johnson & Johnson. Wiping cloth. 3,448,478, 6-10-69, Cl. 15-104.93
Nash, Lawrence M.; and Taylor, Donald F., to Johnson & Johnson. Wiping cloth. 3,448,478, 6-10-69, Cl. 15-104.93
Nash, Leonard A., to Teletype Corporation. Retraction type carrier mechanism. 3,456,078, 7-15-69, Cl. 178-25.
Nash, Robert Arnold; and Haeger, Bruce Edwin, to American Cyanamid Company. Stable syringeable suspensions of parenteral drugs in complex floc form. 3,457,348, 7-22-69, Cl. 424-229.
Nash, Terry W., to Nash, L. W., Company, mesne. Forked coil buggy. 3,430,794, 3-4-69, Cl. 214-731.
Nash, William W., Jr.: *See*—
Farley, John David, 3,456,661.
Nashu, Abdul-Munim; Reymore, Harold E., Jr.; and Dayigh, Adnan A. R., to Upjohn Company, The. Polyurethane pre-mexes containing dihydroxy nitrogen containing phosphonates. 3,437,607, 4-8-69, Cl. 260-2.5
Nashua Corporation: *See*—
Chess, Frank G., 3,433,697.
Lipfert, Donald E., 3,423,042.
Lipfert, Donald E., 3,485,126.
Prew, Robert H., 3,451,754.

Nasirov, Yadulla Nusrat Ogly: *See—*
Abdullaev, Gasan Mamed Bagir Ogly; Nani, Rakhim Khasan; Nasirov, Yadulla Nusrat Ogly; Kuliev, Arif Zulfigarovich; Epshtein, Mikhail Grigorievich; and Kochkarev, Vladimir Ilich,3,472,652.

Naslund, Erik I., to FMC Corporation. Automatic scullery apparatus. 3,483,877, 12-16-69, Cl. 134-127.

Naslund, Kenneth C.; and Bihler, Leonard A., to Engineers Collaborative, Ltd., The. Concrete floor construction with duct-forming voids. 3,442,058, 5-6-69, Cl. 52-221.

Naslund, Lars A.: *See—*
Bank, Shelton; Vogelfanger, Elliot; Naslund, Lars A.; and Yates, David J. C.,3,428,448.
Douros, John D., Jr.; and Naslund, Lars A.,3,440,141.

Nason, Beverly Ross, to Mobay Chemical Company. Polycarbonate plastic skis. 3,475,035, 10-28-69, Cl. 280-11.13

Nason, Walter C.; and Latham, William Nichols, to Process Engineering Inc. Support system for cryogenic containers (1). 3,481,505, 12-2-69, Cl. 220-15.

Nassau, Kurt: *See—*
Loiacono, Gabriel M.; and Nassau, Kurt,3,446,603.

Nassau Smelting and Refining Company, Inc.: *See—*
Cole, Joseph I.; and Moss, Harold S., 3,445,077.
Cole, Joseph I.; and Martin, William C., 3,465,564.
O'Reilly, Bernard, 3,448,509.
Spinney, Robert W., 3,440,036.

Nassenstein, Heinrich; Dedden, Hubert; and Paulus, Rudolf. Method and system for automatic determination of the location of the frame lines dividing a film strip into consecutive frames. 3,469,480, 9-30-69, Cl. 83-50.

Nasser, Essam, to Iowa State University Research Foundation, Inc. Lightning arrestor and method of using the same. 3,467,936, 9-16-69, Cl. 338-21.

Nassibian, Armenag Garabed, to U.S. Philips Corporation, mesne. Semiconductor device with inversion layer, underneath an oxide coating, compensated by gold dopant. 3,449,644, 6-10-69, Cl. 317-235.

Nassimbene, Ernie G., to International Business Machines Corporation. Video recording apparatus. 3,463,878, 8-26-69, Cl. 178-6.6

Nast, Thomas D.; and Wooldridge, Richard G., to All-State Welding Alloys Co., Inc. Method and apparatus for cleaning welding wire. 3,445,285, 5-20-69, Cl. 134-9.

Nastjukha, Alexandr Ivanovich; Koltypin, Evgeny Alexandrovich; and Smirnov, Pavel Alexandrovich. Method of rectifying heavy high-voltage currents and a device for realization thereof. 3,480,822, 11-25-69, Cl. 313-161.

Nasu, Kintaro: *See—*
Nishio, Fumihiko; Nakazawa, Yoshiyuki; and Nasu, Kintaro,3,433,640.

Nasuti, Anthony J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,354.

Nasvytis, Algirdas L., to TRW Inc. Multi-roller friction drive with conical preload mechanism. 3,433,099, 3-18-69, Cl. 74-798.

Nasvytis, Algirdas L. Transmission. 3,468,192, 9-23-69, Cl. 74-682.

Nasvytis, Algirdas L., to TRW Inc. Multiroller brake and clutch construction. 3,468,403, 9-23-69, Cl. 192-41.

Natale, Dominick. Lamp bracket assembly. 3,429,538, 2-25-69, Cl. 248-228.

Natalis, Herbert E.; and Grady, Laurence B., to Electronic Associates, Inc. Adjustable capacitor. 3,483,449, 12-9-69, Cl. 317-249.

Natansohn, Samuel: *See—*
Baird, Donald H.; and Natansohn, Samuel,3,440,169.

Natansohn, Samuel, to General Telephone & Electronics Laboratories, Incorporated. Uranium activated fluorescent materials. 3,457,179, 7-22-69, Cl. 252-301.1

Natansohn, Samuel, to General Telephone & Electronics Laboratories, Incorporated. Rare earth tellurate phosphors. 3,487,025, 12-30-69, Cl. 252-301.1

Natcon Chemical Company, Inc.: *See—*
Kremer, Joseph H.; and Ashford, Jack, 3,470,887.

Natelson, Samuel, to Fisher Scientific Company. Apparatus for the separation of chemical components by the combination of electrophoresis and gel filtration. 3,450,624, 6-17-69, Cl. 204-299.

Natelson, Samuel, to Scientific Industries, Inc. Automatic analysis of gases. 3,453,082, 7-1-69, Cl. 23-253.

Natens, Marcel Clement Rene: *See—*
Martens, Jean Victor; and Natens, Marcel Clement Rene,3,470,532.

Nater, Abe; and Scarborough, Hugh J. Live-haul poultry trailer. 3,476,084, 11-4-69, Cl. 119-12.

Nathan, Amos. Cascade multiplier. 3,443,079, 5-6-69, Cl. 235-194.

Nathan, Amos. Cascade squarer. 3,443,081, 5-6-69, Cl. 235-197.

Nathan, Amos. Electronic signal selector. 3,461,315, 8-12-69, Cl. 307-235.

Nathan, Bernard; and Tate, Gary L., to Hamilton of Indiana, Inc. Package for a mirror and the like. 3,432,028, 3-11-69, Cl. 206-62.

Nathan, Marshall I.; and Smith, John E., Jr., to International Business Machines Corporation. Bulk oscillator using strained semiconductor. 3,480,879, 11-25-69, Cl. 331-107.

Nathan, Marshall I.: *See—*
McGroddy, James C.; and Nathan, Marshall I.,3,458,832.

Nathan, Matthew L. Fluid-flow metering means. 3,421,372, 1-14-69, Cl. 73-213.

Nathan, Richard T.: *See—*
Donovan, Donald W.; and Nathan, Richard T.,3,485,434.

Nathans, Ruth F.: *See—*
Loeffler, Herbert H., 3,464,431.

Nathansohn, Giangiacomo; and Winters, Giorgio, to Lepetit S.p.A.Steroid-(17α, 16α,-d) oxazolines and method for their preparation. 3,436,389, 4-1-69, Cl. 260-239.55

Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio, to Lepetit S.p.A. Steroido oxazolines with pharmacological activity. 3,459,740, 8-5-69, Cl. 260-239.55

Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio, to Lepetit S.p.A.Steroido-9α-halogen-11β-hydroxy-[17α,16α,-d]- 2'-alkyloxazolines of the pregnane series. 3,461,119, 8-12-69, Cl. 260-239.55

Nathansohn, Giangiacomo: *See—*
Thiemann, Joseph Ernst; Lancini, Giancarlo; and Nathansohn, Giangiacomo,3,452,005.

Nathanson, Daniel: *See—*
McGean, Thomas J.; and Nathanson, Daniel,3,439,142.

Nather, Roy E.; and Knute, Wallace L., to Beckman Instruments, Inc. Combined data accumulation reduction system. 3,470,365, 9-30-69, Cl. 235-156.

Natho, Paul J., to ACF Industries, Incorporated. Low stress stem connection. 3,463,446, 8-26-69, Cl. 251-84.

National Acme Company, The: *See—*
Millward, Arthur W., 3,420,346.

National Advertising Company: *See—*
Phillips, John F., 3,430,371.
Rutchick, Robert K., 3,430,372.

National Airoil Burner Company, Incorporated: *See—*
Bitterlich, Gordon M., 3,425,781.
Bitterlich, Gordon M.; and Binker, Paul J., 3,463,602.

National Automatic Tool Co., Inc.: *See—*
Cunningham, James J.; Hall, Webster F.; and Myers, Allen J., 3,466,023.

National Automatic Tool Company, Inc.: *See—*
Hunt, Stuart Jackson, 3,456,396.

National Bank and Trust Company of Central Pa.: *See—*
Beach, Willard C.,3,445,989.

National Bearings Company: *See—*
Bomberger, Arthur L., 3,436,135.

National Beryllia Corp.: *See—*
Allen, Walter C.; and Taebel, Wilbert A., 3,433,656.

National Biscuit Company: *See—*
Brittain, Anthony S., 3,452,856.
Cummings, Raymond P., 3,463,291.
Davies, Kenneth Edward, 3,484,813.
Durand, Fred A., Jr.; and May, Charles R., 3,434,517.
Fast, Robert B.; Spotts, Clyde E.; and Morck, Roland A., 3,451,822.
Simoneau, John J., 3,469,541.

National Bowling Corporation: *See—*
Murdoch, Colin D.; and Pennebaker, Chad W., 3,458,191.

National Broach & Machine Company: *See—*
Davis, Kenneth J., 3,440,769.

National Can Corporation: *See—*
Fruehling, Delmar F., 3,424,346.
Ganung, Robert B., 3,441,180.
Koblish, Arthur M., 3,464,583.
Lipske, Benjamin B.; Considine, Frank W.; and Zenger, Richard D., 3,425,589.
Lipske, Benjamin B., 3,463,107.
Muller, Robert E.; Godsted, Kent B.; Patarini, Leon M.; and McDonald, James F., 3,443,726.
Patarini, Leon M.; Montgomery, Elmer M.; and Major, Louis A., 3,468,153.
Praeg, Walter F., 3,430,024.
Scholtz, Arthur P., 3,429,475.
Zenger, Richard D., 3,445,029.

National Cash Register Company: *See—*
Carlson, Carl O.; Ives, Henry D.; and Jones, John L., 3,448,458.

National Cash Register Company, The: *See—*
Akiyama, Hideo; and Stockwell, David G., 3,424,524.
Akiyama, Hideo; and Artaud, Maurice H., 3,442,254.
Amacher, Gene L., 3,441,715.
Aygun, Niyazi; and Krebs, Frederick G., 3,454,137.
Aylikci, Veli; and Rosener, Harvey J., 3,466,518.
Aylikci, Veli; and Doering, Donald R., 3,466,520.
Bakan, Joseph A., 3,436,355.
Bakan, Joseph A.; and Crainich, Victor A., Jr., 3,440,106.
Baum, Henry H., 3,421,894.
Baum, Henry H., 3,451,338.
Bowler, Richard G.; and Miller, Robert E., 3,466,184.

Bucklin, Edward P., Jr.; Pollack, Werner; and Carlson, Carl O., 3,434,110.
Cady, Richard C., Jr., 3,467,810.
Carlson, Carl O.; Bernstein, Herbert L.; and Sone, Eliot, 3,465,352.
Carlson, Carl O., 3,475,760.
Chamberlin, Rhodes R., 3,449,705.
Coil, Stanley F.; and Horst, William R., 3,442,586.
Ellinger, Paul B.; and Kuno, Hiromu John, 3,461,431.
Ezekiel, Herbert M., 3,435,947.
Ford, Ronald K.; and Thies, Louis W., Jr., 3,454,940.
Gerlach, Richard K.; Melnick, Robert A.; and Kimura, Noboru, 3,423,744.
Gerlach, Richard K.; and Lawrence, William H., 3,480,936.
Gordon, Thomas T.; and Himmel, Rene K., 3,472,675.
Gunderson, Robert O.; Valentine, Sidney L.; Jurick, Martin H.; and Higashi, Paul, 3,426,328.
Gunderson, Robert O.; and Lauffer, Donald K., 3,482,111.
Hanny, John F.; Shafer, Robert J.; and Whitaker, John G., 3,485,132.
Harman, Michael Godfrey, 3,480,927.
Harris, Douglas H., 3,423,742.
Hays, John D.; and Vance, Robert E., 3,481,535.
Hoffman, William M., 3,423,575.
Hollins, Gerald B., 3,465,167.
Howard, Charles F.; and Apieler, Raymond J., 3,440,955.
Janning, John L., 3,466,423.
Joyce, Richard D., 3,421,961.
Klinger, Stephen R.; De Nunzio, Herman A.; and Chryssopoulos, Demosthenis, 3,487,390.
Maierson, Theodore, 3,436,452.
Marinelli, Nicola; and Whitaker, John G., 3,467,544.
Meier, Donal A., 3,435,434.
Meier, Donal A., 3,440,719.
Meier, Donal A., 3,478,338.
Meier, Donal A., 3,484,762.
Miller, Meryl E.; Huddleston, Stanley R.; and Work, Carl F., 3,480,934.
Peck, Bruce E.; and Fujimoto, Calvin, 3,469,310.
Perkins, Paul E.; Perkins, Warren E.; Thomas, David E.; and Taylor, James W., 3,476,877.
Peters, Richard T.; Stone, Eliot; and Bourdon, Joseph J., 3,466,156.
Phillips, Paul S. Jr., 3,427,180.
Phillips, Paul S., Jr.; and Hein, Gerald M., 3,455,721.
Placke, Dale L., 3,441,211.
Redman, Samuel A., 3,462,058.
Ritzert, John A.; and Lavery, John R., 3,456,117.
Roudebush, Melvin T., 3,465,655.
Schwartz, Sidney J., 3,460,107.
Schwartz, Sidney J., 3,462,750.
Steinke, James M., 3,433,084.
Steinke, James M., 3,452,613.
Steinke, James M., 3,475,976.
Steinke, James M., 3,475,977.
Sternberg, Robert M., 3,456,164.
Talvalkar, Shashikant G., 3,445,261.
Taylor, John Edwin Gordon, 3,466,185.
Touchman, William S., 3,448,622.
Touchman, William S., 3,460,343.
Trimble, Cebern B., 3,439,337.
Trimble, Cebern B.; Mo, Frank S. C.; and Combs, Ollah, 3,478,341.
Ulzurrun, Eduardo T., 3,466,626.
Votaw, Richard L.; and Kline, John E., 3,478,409.
Yoncoskie, Robert A.; Kass, Robert E.; Hanny, John F.; and Whitaker, John G., 3,455,848.
Zurbuchen, Louis E.; and Goldammer, Freeland R., 3,431,401.

National Coordinators, Inc.: *See*—
Ben-Aziz, Victor, 3,435,583.

National Coupling Company, Inc.: *See*—
Miller, Marion R.; and Temple, Lowell D., 3,448,647.

National Dairy Products Corporation: *See*—
Bell, Kenneth; and Grossen, Harry W., 3,477,393.
Eggen, Ingmar B.; and Singleton, Andrew D., 3,445,238.
Engel, Martin E., 3,450,022.
Freund, Ernest H., 3,453,116.
Jonas, John J., 3,476,741.
Kraft, George Howard, 3,439,471.
Michael, James L.; and Jackson, Harold W., 3,427,167.
Miller, Roland E.; Wayne, Clyde; and Kirby, William T., 3,425,123.
Miller, Roland E.; and Wayne, Clyde D., 3,463,400.
Miller, Roland E.; Wayne, Clyde D.; Olson, Edgar C.; and Piatek, Robert J., 3,479,024.
Olson, Edgar C., 3,458,059.
Porada, Joseph J., 3,468,462.
Runge, Heinz F., 3,477,614.
Scaletta, Joseph A.; Miller, Roland E.; and Valek, John, 3,435,653.
Schultz, Robert F., 3,427,999.
Vakaleris, Demetrius G., 3,455,698.

National Distillers and Chemical Corporation: *See*—
Bailey, Robert L., 3,449,584.
Bailey, Robert L., 3,449,958.
Bailey, Robert L., 3,460,422.
Bailey, Robert L., 3,469,728.
Braus, Harry; Hager, Jerome E.; and Hill, Lester A., Jr., 3,462,375.
Braus, Harry; Hager, Jerome E.; and Hill, Lestera A., Jr., 3,480,581.
Bremer, Sherman L., 3,473,833.
Corbett, Herbert O., 3,423,010.
Corbett, Herbert O., 3,440,686.
Corbett, Herbert O.; Quackenbush, John J.; and Newman, James B., Jr., 3,454,447.
Diederen, Guillaume Jan, 3,453,742.
Emich, Karl H., 3,432,272.
Emich, Karl H., 3,454,221.
Emich, Karl H., 3,460,908.
Emich, Karl H., 3,460,910.
Emich, Karl H.; and Wiley, Richard E., 3,485,742.
Feldman, Julian; Saffer, Bernard A.; and Frampton, Orville D., 3,480,685.
Gaylord, Norman G., 3,452,117.
Grinninger, Lowell D.; and Greenberg, Harry, 3,423,379.
Grinninger, Lowell D.; and Meeks, Lawrence A., 3,448,093.
Hagan, Lamont, 3,442,687.
Horvitz, David; Shaw, Robert J.; and Baugh, William D., 3,423,175.
Howell, Samuel G.; and Akers, Dale M., 3,427,191.
Howell, Samuel G.; and Akers, Dale M., 3,432,339.
Hoyt, John M.; and Koch, Karl, 3,451,977.
Hoyt, John M.; and Koch, Karl, 3,472,806.
Hulse, Robert E.; and Cervini, John J., 3,454,519.
Lerman, Frank; and Bartsch, Raymond C., 3,449,291.
Lerman, Frank; and Bartsch, Raymond C., 3,472,801.
Lum, David W.; and Mador, Irving L., 3,480,558.
Mador, Irving L.; and Scheben, John A., 3,423,456.
Mador, Irving L.; and Scheben, John A., 3,452,090.
Mador, Irving L.; and Scheben, John A., 3,454,632.
Maringer, Melvin F., 3,449,469.
Mauro, Jean B.; and Hagan, Lamont, 3,427,184.
McClain, Dorothee M., 3,422,049.
Peoples, Leo C.; and Beattly, Charles W., 3,432,483.
Quackenbush, John J., 3,472,201.
Quackenbush, John J.; and Corbett, Herbert O., 3,472,430.
Quackenbush, John J.; and Corbett, Herbert O., 3,473,193.
Quackenbush, John J.; and Corbett, Herbert O., 3,485,907.
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S., 3,451,981.
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S., 3,451,989.
Rekers, Louis J., 3,474,080.
Ridgeway, Lee R.; and Fischer, Joseph, 3,470,122.
Ridgeway, Lee R.; and Fischer, Joseph, 3,474,058.
Scheben, John A.; Mador, Irving L.; and Orchin, Milton, 3,450,730.
Scheben, John A.; and Mador, Irving L., 3,468,947.
Scheben, John A.; and Mador, Irving L., 3,480,632.
Smith, Joseph W., 3,454,033.
Solvik, Ragnar S.; and Kirch, William, 3,446,754.
Tyrrell, Frederick S., 3,454,450.
Wade, Charles A., 3,470,055.

National Dust Collector Corporation: *See*—
Drum, Daniel D., 3,432,153.

National Electronics, Inc.: *See*—
Gray, Donald I.; Hutchings, John H.; and Wohlert, Andrew M., 3,486,088.

National Electrostatics Corporation: *See*—
Ferry, James A., 3,473,056.
Herb, Raymond G.; and Ferry, James A., 3,469,118.
Herb, Raymond G., 3,473,064.

National Engineering Company: *See*—
Bullock, Harry L., 3,426,895.
Troy, Elbert C., 3,456,906.

National Engineering, Inc.: *See*—
Patton, Ralph J., 3,452,941.

National Equipment Corporation: *See*—
Greenberg, Robert L., 3,426,502.
Greenberg, Robert L., 3,438,341.

National Foam System, Inc.: *See*—
Meldrum, Donald N.; and Williams, John R., 3,475,333.

National Forge Company: *See*—
Bowles, Arnold G., 3,451,101.
Bowles, Arnold G.; and Manelick, James M., 3,477,096.
Rossmann, Peter F., 3,487,442.
Waite, Harold H., 3,482,401.

National Geographic Society: *See*—
Arens, Herman J.A.C., 3,472,584.

National Graphics Corporation: *See*—
Huntwork, Claude Raymond, 3,459,420.

National Gypsum Company: *See*—
Austin, Arthur C.; and Kaleta, Norbert W., 3,472,306.
Austin, Arthur C.; Gorka, Edward R.; and Kaleta, Norbert W., 3,480,104.
Beeman, Gordon E., 3,441,689.
Burke, William Roy, 3,482,369.
Galer, Richard E., 3,421,703.
Galer, Richard E., 3,462,850.
Krockenberger, Emil A., 3,438,914.
Lovullo, Patrick R., 3,461,630.
Reinecke, Paul W.; Van Sipe, Ronald L.; Dowd, Walter W.; and Liske, Donald O., 3,430,419.
Shull, John D., Jr.; and Klems, John W., 3,481,829.
Sowinski, Gerard T., 3,460,298.
Welch, George D.; and Donahe, Leonard L., 3,469,477.
Winkowski, Daniel A., 3,469,361.
National Ideal Company, The: *See*—
Maxfield, Robert E., 3,478,721.
National Iron Company: *See*—
Sanders, Douglas O.; and Finneman, George S., 3,455,352.
National Latex Products Company, The: *See*—
Hoppes, Carlos D., 3,474,498.
National Lead Company: *See*—
Aramendia, Mauro M.; and Armant, David L., 3,457,037.
Bauer, Alfred F., 3,468,367.
Bellinger, Arthur A.; and Doyle, George W., 3,439,432.
Bonilla, Charles F.; Brown, Steven H.; and Reiter, Sydney H., 3,483,381.
Bradley, Bryant W., 3,470,735.
Bush, Harley Eugene, 3,468,160.
Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L., 3,451,724.
Clark, Robert L., 3,447,229.
Cowan, Jack C.; Beasley, Augustus Earl, Jr.; Jordan, John W.; Finlayson, Claude Malcolm; and Sterns, Robert O., 3,425,953.
Dohman, Eugene J.; and Rinehimer, William A., 3,424,588.
Doyle, George W.; and Johnson, Robert A., 3,444,892.
Ferris, Lockwood W., 3,432,031.
Ferris, Lockwood W., 3,432,258.
Happel, John; and Blanck, Hillard, 3,420,753.
Heywood, Kenneth W.; and Trampier, Charles Raymond, Jr., 3,434,853.
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William, 3,453,128.
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William, 3,453,129.
Honchar, Andrew P., 3,468,633.
Kebrich, Leonard M.; and White, Edward L., 3,440,213.
Knudsen, Lawrence B.; and Munjee, Aman D., 3,423,075.
Kollman, Robert C.; Lang, William D.; and Simone, Dominic, 3,472,700.
Laws, Cecil E., 3,436,962.
Lewis, William J.; and Smith, Rollin P., 3,484,195.
Lyons, Leland R., 3,484,191.
McMahon, Thomas J., 3,480,386.
Michal, Eugene J.; and Nilsen, Arnold E., 3,446,590.
Michal, Eugene J.; and Nilsen, Arnold E., 3,472,612.
Michal, Eugene J., 3,486,842.
Nevins, Michael J., 3,445,251.
Siuta, Walter T., 3,427,278.
Stohldrier, Oliver H., 3,442,137.
Stukenbrocker, George L.; and Suriani, Ernest, 3,451,940.
Stynes, James A., 3,423,193.
Toomey, Robert D.; and Vassil, George, 3,446,579.
Trimble, Melvin B.; and Koch, James H., 3,461,945.
Walwark, Roger; and Rhatican, Cyril R., 3,453,412.
National Machinery Company, The: *See*—
Eakin, Gerald R.; and Pontius, James R., 3,466,917.
Grombka, Walter J.; and Allebach, Gene E., 3,422,657.
Haines, Allan D., 3,435,472.
McClellan, Herbert L.; and Huss, Donald E., 3,456,474.
National Manufacturing Co.: *See*—
Benson, Keith W., Jr., 3,428,999.
Edeus, James A., 3,480,989.
National Mills: *See*—
Foreman, Caley A., 3,453,028.
National Mine Service Company: *See*—
Evans, Nolan E., 3,475,057.
National Oats Company: *See*—
Hanser, William F., 3,452,936.
National Patent Development Corporation: *See*—
Shepherd, Thomas H., 3,428,043.
Shepherd, Thomas H.; and Gould, Francis E., 3,470,883.
National Pectin Products Company: *See*—
Leo, Albert J.; and Bielskis, Edward C., 3,430,812.
National Plastic Products Co., Inc.: *See*—
Papps, Jon D., 3,432,590.
National Polychemicals, Inc.: *See*—
Bottomley, James; and Strauss, Richard, 3,435,097.
Lasman, Henry R., 3,428,583.
Riley, Charles P., Jr., 3,422,030.
Strauss, Richard; and Beck, Walter, 3,463,783.
National Provincial Bank Limited: *See*—
Ingleby, Richard F. J.,3,445,407.
National Pump & Injector Sales & Service: *See*—
Ascuitto, Anthony L.; and Romani, Vito J., 3,435,778.
National Rejectors, Inc.: *See*—
Erickson, Gustav F., 3,429,413.
Erickson, Gustav F., 3,454,146.
National Research Corporation: *See*—
Allen, Lloyd R., 3,457,067.
Allen, Lloyd R., 3,476,525.
Briggs, Walton E., 3,426,581.
Briggs, Walton E., 3,486,365.
Fairbanks, Daniel F.; Larson, Warren L.; Randall, Robert N.; and Wong, James, 3,476,615.
Fincham, Christopher J. B., 3,476,557.
Goon, Edward J., 3,427,132.
Grant, Foster R.; and Torti, Maurice L., Jr., 3,426,420.
Harvey, Philip C., 3,440,884.
Harvey, Philip C.; Sheldon, Deane P.; and van Opijnen, Leendert J. K., 3,449,564.
Hecht, Richard, 3,446,075.
Maliakal, Joseph C., 3,449,627.
Sheldon, Deane P., 3,447,072.
van Opijnen, Leendert J. K., 3,441,839.
Vitkus, Paul L., 3,462,321.
National Research Development Corporation: *See*—
Allen, Lloyd R., 3,460,976.
Bailey, Colin; and Evans, Michael Ernest Newcombe, 3,467,362.
Baker, Lionel Richard; Bertoya, Hastings Charles Maxim; Mann, John Raymond; and Whyte, James Norwood, 3,436,154.
Ball, Kenneth; and Osborne, Geoffrey Vaughan, 3,486,500.
Bates, James John, 3,437,898.
Bates, James John; and Sridhar, Tiruchendurai Viswanathan, 3,453,513.
Broadbent, Peter Jack, 3,465,724.
Broom, Ronald Francis Johnston, 3,440,513.
Broom, Ronald Francis Johnston; Hilsum, Cyril; Bayley, Donald; and Ralphs, John Dennis, 3,443,109.
Brown, Kenneth W., 3,483,340.
Brown, Michael Richard; and Waters, Geoffrey Sherwood, 3,474,248.
Burton, Harold; Pavey, John Anthony; Jayne-Williams, Derek James; and Hansen, William Frederick, 3,486,840.
Carr-Brion, Kenneth Garfield; and Jenkinson, Doris Audrey, 3,443,092.
Clarke, John Michael, 3,485,218.
Cook, Alan Hugh; Rowley, William Richard Charlton; and Wilson, David Charles, 3,469,205.
Cook, Alan Hugh; Rowley, William Richard Charlton; Stanley, Victor William; Wilson, David Charles; and Hitchens, Robert George, 3,486,824.
Dore, Charles Frank Gamblin, 3,452,452.
Douglas, Edward; and Walsh, Terence, 3,444,996.
Drabble, John R.; and Palmer, Anthony William, 3,442,719.
Elliott, Michael, 3,465,007.
Elliott, Michael; and Janes, Norman Frank, 3,466,304.
Fellows, Thomas George, 3,440,895.
Firth, Donald; Cunningham, Sinclair Upton; and McIntyre, Ronald Graham, 3,473,440.
Fletcher, Archibald William; and Wilson, John Charles, 3,466,168.
Fox, John A., 3,426,663.
Fryer John Tim, 3,461,999.
Gabor, Dennis; and Albert, Michael Joseph, 3,437,865.
Gates, John William Charles, 3,487,331.
Giles, Cyril George; Martin, James Alexander; and Spindlow, John Richard, 3,431,996.
Girling, Alfred Ernest, 3,482,230.
Goymour, Edward Philip, 3,436,961.
Hakluytt, John Philip Dabbs, 3,452,933.
Hardman, Roland, 3,449,328.
Hardman, Roland, 3,449,760.
Hopkins, Leslie Arthur; and Harris, Benjamin Lewis, 3,450,450.
Howarth, Stephen Roland, 3,481,179.
Hunter, Colin Edward, 3,435,329.
Kemp, Ivor Frederick, 3,473,614.
Kerr, John; and Gay, Duncan, 3,479,098.
Lawrenson, Peter John, 3,448,310.
Lord, Peter Reeves, 3,469,388.
MacIntyre, Duncan; and Robertson, Ian MacPherson, 3,483,929.
MacLean, Robert Sisterson; Mc Clintock, Andrew Lindsay Muir; and Sharp, Royds, 3,465,570.
Mc Gee, James Dwyer, 3,470,380.
McAllan, John Dewar, 3,449,935.
McGee, James Dwyer; Beesley, John; and Berg, Anthony David, 3,479,516.
McIlraith, Arthur Hamilton, 3,484,602.
McLean, John Walford; and Hughes, Thomas Henry, 3,464,837.
Morantz, Daniel Joseph, 3,432,766.

Mullin, John Brian; and Hurle, Donald Thomas James, 3,460,998.
Parks, John Ronald, 3,471,831.
Pavey, John Anthony, 3,481,109.
Petty, John William Ledward, 3,439,563.
Phillips, Leslie Nathan, 3,423,335.
Prior, Arthur Cunningham, 3,473,217.
Pyne, Humphrey Walter; Horwood, Bruce; and Wilson, Robin Burnell, 3,439,477.
Rawcliffe, Gordon H.; and Fong, William, 3,450,971.
Riddle, Cecil, 3,471,697.
Shaw, Allan, 3,478,817.
Simpson, James Roxby, 3,466,241.
Stanton, Martin Gray, 3,436,030.
Sunderland, Greta Colleen Adie, 3,447,158.
Wadsworth, Nicolas John; and Watt, William, 3,476,703.
Walsh, Terence, 3,439,805.
Whyman, Derek, 3,433,991.

National Research Institute for Metals, Director of: *See*—
Taoka, Tadami; Furubayashi, Eiichi; and Takeuchi, Shin, 3,484,150.

National Research Institute of Metals, Director of: *See*—
Yoda, Renpei; and Watanabe, Toru, 3,486,887.

National Screw & Manufacturing Company, The: *See*—
Charles, James F., 3,460,428.
Frantz, John K., 3,474,265.
Hatherell, George A.; and Frantz, John K., 3,441,718.
Lawrence, Frank W., 3,434,262.

National Semiconductor Corporation: *See*—
Mitchell, Walter B.; and Taylor, Ronald C., 3,421,025.
Mitchell, Walter B., 3,440,498.

National Starch and Chemical Corporation: *See*—
Armour, Walter B., 3,425,978.
Armour, Walter B., 3,433,701.
Armour, Walter B., 3,444,037.
Caldwell, Carlyle G.; Jarowenko, Wadym; and Hodgkin, Irving D., 3,459,632.
Doering, August P., 3,481,771.
Evans, Raymond B.; Kruger, Leo H.; and Szymanski, Chester D., 3,463,668.
Flanagan, Thomas P., 3,448,178.
Fries, John A., 3,427,268.
Jarowenko, Wadym; and McGovern, Joseph P., 3,454,411.
Kruger, Leo H.; and Wurzburg, Otto B., 3,441,558.
Kunze, Walter G., 3,485,668.
Kunze, Walter G., 3,485,669.
Marotta, Nicholas G.; Trubiano, Paolo C.; and Ronai, Kenneth S., 3,443,964.
Marotta, Nicholas G.; Boettger, Richard M.; Nappen, Bernard H.; and Szymanski, Chester D., 3,455,838.
Marotta, Nicholas G.; and Bell, Harvey, 3,464,857.
Marotta, Nicholas G.; Bell, Harvey; and Ronai, Kenneth S., 3,482,984.
Semegran, Theodore S.; and Trubiano, Paul C., 3,477,903.
Sirota, Julius; and Kennedy, James A., Jr., 3,473,932.
Skoultchi, Martin; and Jubilee, Benjamin D., 3,425,977.
Skoultchi, Martin; and Fertig, Joseph, 3,428,588.
Skoultchi, Martin, 3,429,852.
Skoultchi, Martin, 3,445,545.
Skoultchi, Martin; and Kochler, Frank Theodore, Jr., 3,445,566.
Stanley, Henry, 3,425,964.
Stockmann, Hans H.; and Fertig, Joseph, 3,464,969.

National Steel Corporation: *See*—
Campbell, Louis T., III, 3,455,545.
Johnston, Samuel S., 3,445,371.
Kessler, Monroe H.; and Gebhardt, Edwin J., 3,460,997.
McGraw, Leslie D., 3,448,134.
McGraw, Leslie D.; and Reif, Robert B., 3,485,654.
Ross, George P., 3,479,210.
Saunders, William T., 3,436,991.
Saunders, William T., 3,437,228.
Saunders, William T., 3,444,717.
Saunders, William T., 3,450,300.
Smith, John R.; and Bray, James A., 3,475,295.
Smith, John R.; and Bray, James A., 3,479,256.
Uban, Earl C., 3,459,410.

National Tel-Tronics Corporation: *See*—
Valle, Louis J.; and Hoegrel, Otto, 3,431,544.
Valle, Louis J., 3,478,304.

National Telephone Supply Company, The: *See*—
Anderson, Emmett E., 3,426,143.

National Twist Drill & Tool Co.: *See*—
Wendt, Harvey W., 3,456,272.

National Uni-Pac, Inc.: *See*—
Neidig, Dan, 3,442,422.

National Union Electric Corporation: *See*—
Nielsen, Niels C., 3,470,027.
Schaefer, Harold W., 3,480,987.
Waller, Lyle G., 3,423,245.

National Video Corporation: *See*—
Javorik, Laszlo, 3,441,333.
Prazak, Charles J., III; and Seo, Kap Min, 3,472,672.
Schwartz, James W., 3,443,138.
Schwartz, James W.; and Javorik, Laszlo, 3,449,611.
Schwartz, James W., 3,469,024.
Schwartz, James W.; and McCarthy, Daniel J., 3,473,065.

National-Standard Company: *See*—
Berquist, Leonard G., 3,449,733.
Bryant, Emerson C., 3,455,764.
Frazier, Larry C., 3,485,692.
Lang, Ernest U.; and Hope, William F., 3,474,654.
Lang, Ernest U., 3,475,255.
Mallory, Edwin E.; and Shook, Donald H., 3,429,765.
Millhoff, Thomas N., 3,438,755.
Rawls, Vaughn, 3,484,903.
Schell, Sidney L.; and Austin, Max M., 3,483,955.
Waterhouse, Bruce L.; Jernt, Fred M.; and Mallory, Edwin E., 3,468,253.

Nationwide Chemical Corporation: *See*—
Wright, Wilburn T., 3,420,936.

Nationwide Papers, Incorporated: *See*—
Cohn, Robert, 3,427,017.
Cohn, Robert, 3,427,018.

Natoli, Joseph G., to M&T Chemicals Inc. Process for preparation of alkyltin compounds. 3,432,531, 3-11-69, Cl. 260-429.7

Natschke, Eldred H.; and St. Pierre, Frederick W., to Universal Railway Devices, Company. Two way automatic brake adjuster. 3,437,180, 4-8-69, Cl. 188-202.

Natta, Giulio; Carbonaro, Antonio; Lionetti, Alberto; and Porri, Lido, to Montecatini, Edison S.p.A. Process for the polymerization of butadiene to polybutadiene having substantially 1,4 cis structure. 3,462,406, 8-19-69, Cl. 260-94.3

Natta, Giulio; Chini, Paolo; Mazzanti, Giorgio; and Britz, Amelia, to Montecatini Edison S.p.A. Production of high molecular weight acetaldehyde formaldehyde polymers. 3,448,083, 6-3-69, Cl. 260-67.

Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio, to Montecatini Edison S.p.A. Homopolymers of cyclopentene and processes for preparing the same. 3,458,489, 7-29-69, Cl. 200-93.1

Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio, to Montecatini Edison S.p.A. High molecular weight unsaturated hydrocarbon homopolymers and process for preparing them. 3,459,725, 8-5-69, Cl. 260-93.1

Natta, Giulio; Dall'Asta, Gino; and Mazzanti, Giorgio, to Montecatini Edison S.p.A. Process for the polymerization of cyclopentene to unsaturated high polymers. 3,476,728, 11-4-69, Cl. 260-93.1

Natta, Giulio; Mazzanti, Giorgio; Pregaglia, Gianfranco; Valvassori, Alberto; and Sartori, Guido, to Montecatini Edison S.p.A. Vulcanizable olefinic copolymers and process for their preparation. 3,483,173, 12-9-69, Cl. 260-80.78

Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; Dall'Asta, Gino; and Sartori, Guido, to Montecatini Edison S.p.A. Cyclic polyene/mono-olefin copolymerizates and processes for producing them. 3,453,250, 7-1-69, Cl. 260-88.2

Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; and Sartori, Guido, to Montecatini Edison S.p.A. Vulcanizable copolymers of at least one of monoalkenyl cyclopentenes, monoalkenyl cycloalkenyloctenes and their alkyl derivatives. 3,476,720, 11-4-69, Cl. 260-79.5

Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio, to Montecatini Edison S.p.A. Isotactic polymers of butene-1. 3,435,017, 3-25-69, Cl. 260-93.7

Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio, to Montecatini Edison S.p.A. Separation of macromolecules having different stereoregularities from polypropylenes comprising mixtures of such macromolecules. 3,438,956, 4-15-69, Cl. 260-93.7

Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino, to Montecatini Edison S.p.A. Formaldehyde/ketene copolymers. 3,422,069, 1-14-69, Cl. 260-64.

Natta, Giulio; and Sianesi, Dario, to Montecatini Edison S.p.A. Regular high polymers of fluorinated styrenes and process for producing the same. 3,420,806, 1-7-69, Cl. 260-91.5

Natta, Guilio; Pino, Piero; and Mazzanti, Giorgio, to Montecatini Edison S.p.A. Isotactic polymers of styrene and pentene-1, and products made thereof. 3,435,018, 3-25-69, Cl. 260-93.5

Natter, Howard. Portable soda fountain. 3,462,970, 8-26-69, Cl. 62-392.

Natural Products Company: *See*—
Lisowski, John A.; Lisowski, Frank B.; and Lisowski, Leonard E., 3,440,152.

Naturale, Anthony: *See*—
Penrod, Allen M.; and Naturale, Anthony,3,466,833.

Naturale, Victor. Collapsible core for a mold. 3,482,815, 12-9-69, Cl. 249-180.

Naturin-Werk Becker & Co.: *See*—
Stahlberger, Bruno, 3,446,634.

Natwick, John W., to United States of America, Air Force. Method of electrode plating silver on magnesium. 3,427,232, 2-11-69, Cl. 204-32.

Natwick, Julius O., to United States of America, Navy. Resilient electrical cable. 3,453,374, 7-1-69, Cl. 174-69.

Nau, Pierre F. G.: *See—*
Ber, Esther; Nau, Pierre F. G.; and Dvolaitzky, Frajda,3,472,868.

Nau, Pierre P. G., to Societa Civile Auguil. Process of preparing 1-(2-oxo 1-pyrrolidino) 4- (1-pyrrolidino)-but-2-yne and salts thereof. 3,444,185, 5-13-69, Cl. 260-326.3

Nauchno-Issledovateljsky Institute Metiznoi Promyshlennosti: *See—*
Belalov, Khasan Nurievich; Shub, Vladimir Zinovjevich; and Matash, Vitaly Konstantinovich, 3,456,332.

Naud, Henry; and Constant, Rene Leon, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Articulated structure especially for jet propulsion nozzle. 3,441,221, 4-29-69, Cl. 239-265.35

Naudin, Paul Marcel: *See—*
Mordchelles-Regnier, Georges; Naudin, Paul Marcel; and Micheau, Pierre Gabriel,3,462,905.

Naughton, John L., to Den-Tal-Ez Chair Manufacturing Co. Foldable lift device. 3,472,488, 10-14-69, Cl. 254-122.

Naughton, John L., to Den-Tal-Ez Chair Manufacturing Co. Movable support for a dental chair. 3,486,728, 12-30-69, Cl. 248-429.

Naujokas, Andrius A., to Bausch & Lomb Incorporated. Multifocal plastic ophthalmic lens. 3,485,556, 12-23-69, Cl. 351-169.

Naul, George M., to Budd Company, The. Laminated shuttle. 3,425,463, 2-4-69, Cl. 139-196.

Nault, William A.: *See—*
Hurley, Forbes M.; and Nault, William A.,3,441,328.

Naumann, Gunther Erich: *See—*
Lange, Siegfried Karl; Naumann, Gunther Erich; Engler, Rolf Hans; and Nicolai, Hans-Joachim Reinhold,3,484,800.

Naumann, Herbert O.: *See—*
Mogensen, Allan O.; and Naumann, Herbert O.,3,436,448.

Naumann, John R. Solenoid valve with O-ring seat and bell spring bias. 3,484,076, 12-16-69, Cl. 251-141.

Nauroth, Peter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for producing sodium aluminum silicate pigments. 3,424,602, 1-28-69, Cl. 106-288.

Nauroth, Peter: *See—*
Reinhardt, Helmut; and Nauroth, Peter,3,433,593.
Reinhardt, Helmut; Nauroth, Peter; and Achenbach, Karl,3,473,890.
Reinhardt, Helmut; Nauroth, Peter; and Achenbach, Karl,3,480,390.

Nauta, Costant Johan. Mixing or kneading device. 3,450,390, 6-17-69, Cl. 259-102.

Nauta, Jan P., to Rowland Products, Incorporated. Apparatus for extruding multicolored sheet material. 3,443,278, 5-13-69, Cl. 18-13.

Nauta, Wybe T., to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades- Stheeman & Pharmacia. Ethers of α-(2-pyridyl) benzyl alcohols. 3,433,796, 3-18-69, Cl. 260-296.

Nautchno-Izsledovatelski i Proektno-Konstruktorski Institut Po Elektrotechnitscheska Promishlenost: *See—*
Belopitov, Nikola R., 3,446,932.

Nautchno-Izsledovatelski Sektor Pri Phisitcheskia Fakultet Na Sofyiski Universitet: *See—*
Levarovski, Evgeni Iliev; and Nanev, Zvetan, 3,473,342.

Nava, Mario, to Mecasta Corporation, The, mesne. False twist crimping apparatus. 3,462,933, 8-26-69, Cl. 57-34.

Navan Incorporated: *See—*
Mayer, John F., 3,446,508.

Navara, Joseph. Hat stretcher. 3,459,347, 8-5-69, Cl. 223-25.

Navarre Products, Inc.: *See—*
Williams, James L., 3,450,363.

Navasky, Bernard. Waistband construction and curtain therefor. 3,427,661, 2-18-69, Cl. 2-236.

Nave, Thomas J.; and Larkin, Mark E., to Phillips Petroleum Company. Parison prepinching and preblowing apparatus. 3,425,090, 2-4-69, Cl. 18-5.

Nave, Thomas J.: *See—*
Wilson, Newton R.; and Nave, Thomas J.,3,479,420.

Naves, Yves Rene; and Ochsner, Paul Albert, to Givaudin Corporation. Acetals of p-menthane-diol-3,8 and p- menthene-1-diol-3,8 and method of preparing same. 3,461,138, 8-12-69, Cl. 260-340.3

Navez, Maurice; and Bezombes, Albert, to Compagnie de Saint-Gobain. Method of coloring glass and said colored glass. 3,468,745, 9-23-69, Cl. 161-164.

Navia, Thomas, to Reynolds Metals Company. End closure opening and pouring means. 3,429,481, 2-25-69, Cl. 222-83.

Navigation Computer Corporation: *See—*
Erpel, Adolph C., 3,469,103.
Jones, John P., 3,424,452.
Jones, John P., Jr., 3,456,077.
Jones, John Paul, Jr., 3,448,247.
Jones, John Paul, Jr., 3,448,249.

Naville, Raymond, to Fabrique de Machines Mikron S.A. Constant tooth depth bevel gears. 3,435,697, 4-1-69, Cl. 74-459.5

Navon, David H.; and Bakalar, David, to Transitron Electronic Corporation. Matrix-type, permanent memory device. 3,461,436, 8-12-69, Cl. 340-173.

Navon, David H.; and Davis, Edwin S., to Transitron Electronic Corporation. Semiconductor device doped with gold just to the point of no excess and method of making. 3,445,736, 5-20-69, Cl. 317-235.

Nawata, Kiyoshi: *See—*
Kuwabara, Michichika; Nawata, Kiyoshi; Tsunawaki, Kiyokazu; and Sakakibara, Seizaburo,3,432,476.

Nawn, George H.; and Timson, William J., to Polaroid Corporation. Photographic emulsion of silver halide and derivatized gelatin capable of conducting electrical current. 3,424,581, 1-28-69, Cl. 96-38.4

Nawrath, Gunter: *See—*
Kubitzek, Harry; Unger, Otto; Nawrath, Gunter; Reichle, Alfred; and Nischk, Gunther,3,477,899.

Nawrath, Gunther: *See—*
Bodesheim, Ferdinand; Nawrath, Gunther; and Nischk, Gunther,3,454,535.

Naydan, Bob N., to Singer-General Precision, Inc. Solid state digital control transformer. 3,480,947, 11-25-69, Cl. 340-347.

Naydan, Theodore T.; and Koenig, Harold R., to General Electric Company. Beam plasma high frequency wave generating system. 3,432,721, 3-11-69, Cl. 315-39.

Naydan, Theodore T.; and Tomiyasu, Kiyo, to General Electric Company. Electromagnetic wave generating and translating apparatus. 3,432,722, 3-11-69, Cl. 315-39.

Nayfa, James E. Apparatus for treating cotton fibers. 3,451,105, 6-24-69, Cl. 19-66.

Nayler, John Herbert Charles: *See—*
Doyle, Frank Peter; and Nayler, John Herbert Charles,3,470,151.
Fosker, George Robert; and Nayler, John Herbert Charles,3,453,264.
Hardy, Kenneth David; Nayler, John Herbert Charles; and Stove, Edward Raymond,3,448,104.
Long, Anthony Alfred Walter; and Nayler, John Herbert Charles,3,433,784.

Naylor, Donald Brian: *See—*
Willis, Norman Edwin; and Naylor, Donald Brian,3,485,144.

Naylor, Edward Shaw: *See—*
Egger, William; and Naylor, Edward Shaw,3,459,357.

Naylor, Floyd E.: *See—*
Gaeth, Rudolf H.; and Naylor, Floyd E.,3,480,608.

Naylor, Gordon J., to Crown Zellerbach Canada Limited. Cable fastener. 3,470,591, 10-7-69, Cl. 24-126.

Naylor, Peter G.: *See—*
Brotherton, homas K.; and Naylor, Peter G.,3,483,189.

Naylor Pipe Cleaning Company: *See—*
Naylor, William S., 3,463,172.

Naylor, Robert M.; and Carpenter, Herbert L., Jr., to Greif Bros. Cooperage Corporation, The. Trapezoidal pallet for parts. 3,431,870, 3-11-69, Cl. 108-55.

Naylor, Robert W., to CTS Corporation. Variable resistance control having a resistance wire supporting cylindrical substrate. 3,436,714, 4-1-69, Cl. 338-145.

Naylor, William S., to Naylor Pipe Cleaning Company. Tank unit for receiving and transporting sewer solids. 3,463,172, 8-26-69, Cl. 134-169.

Nazali, Joseph M.: *See—*
Thurston, Franklin J.; and Nazali, Joseph M.,3,456,424.

Nazareth, Alfred, Jr., to Foxboro Company, The. Balanced direct current amplifier with solid state chopping means. 3,466,557, 9-9-69, Cl. 330-10.

Nazaruk, Stanley; Rosa, Carl; and Headrick, Alvin F., to United States of America, Interior. Apparatus for forming spherical pellets. 3,427,683, 2-18-69, Cl. 18-1.

Nazy, John R.; and Wheeler, Donald H., to General Mills, Inc. Cycloaliphatic hydrocarbon diamines. 3,449,423, 6-10-69, Cl. 260-563.

NB Jackets Corporation: *See—*
Dorman, Isidore, 3,446,135.
Engelstein, Stanley, 3,457,697.
Pfaff, William A., 3,447,872.

Neaderland, Adolph, to Burndy Corporation. Clamp connector. 3,425,028, 1-28-69, Cl. 339-249.

Neal, Alan L.: *See—*
Warren, Joel; Neal, Alan L.; and Rennels, David A.,3,470,067.

Neal, Brian Patrick: *See—*
Gibbons, Peter Frederick; Knight, David John; Neal, Brian Patrick; and Parbery, Cyril John,3,456,988.

Neal, Charles Bailey, to Sylvania Electric Products Inc. Color balance automatic shift apparatus. 3,469,023, 9-23-69, Cl. 178-5.4

Neal, Charles Bailey; and Poel, Lawrence R., to Sylvania Electric Products, Inc. Raster correction circuit arrangement. 3,463,961, 8-26-69, Cl. 315-24.

Neal, Frank, to Wood Newspaper Machinery Corporation. Motor drive assembly for printing press. 3,440,900, 4-29-69, Cl. 74-665.

Neal, Frank; and Snyder, Robert A., to Wood Industries, Inc. Actuating device for web piercing pins of folder mechanism. 3,460,823, 8-12-69, Cl. 270-76.

Neal, Frank; and Snyder, Robert A., to Wood Industries, Inc. Folding cylinder having adjustable band construction. 3,477,709, 11-11-69, Cl. 270-71.
Neal, James Preston, IV: *See—*
McCaskill, William Brand; and Neal, James Preston, IV,3,426,630.
Neal, Lonnie G.: *See—*
Sokol, Robert W.; and Neal, Lonnie G.,3,475,975.
Neal, Mary V. Apparatus and process for rocking a human being. 3,453,999, 7-8-69, Cl. 128-24.
Neal, Maynard J., to Buffalo Forge Company. Motor-pump unit. 3,433,164, 3-18-69, Cl. 103-87.
Neal, Morris P.; Reichert, Donald G.; and Fradenburgh, John, to A-B-C Packaging Machine Corporation. Carton sealing machine. 3,482,489, 12-9-69, Cl. 93-36.3
Neal, Norman D.: *See—*
Burnett, Lonnie A.; Rave, Joseph A., Jr.; Read, Richard E.; and Neal, Norman D.,3,486,012.
Neal, Norman D.; Taylor, Ralph C., Jr.; and Albrecht, George O., to Cincinnati Milling Machine Co., The. Automatic control apparatus. 3,465,332, 9-2-69, Cl. 340-347.
Neal, Richard D., to Eastman Kodak Company. Cross-flow jet. 3,458,890, 8-5-69, Cl. 15-306.
Neal, Vernon L. Collapsible ladder. 3,451,506, 6-24-69, Cl. 182-195.
Neale, Alan Jeffrey; and Rawlings, Terence James, to Monsanto Chemicals Limited. Benzothiazole-2-sulfinamides. 3,454,590, 7-8-69, Cl. 260-306.6
Neale, Alan J.; and Roberts, Ryland J., to Monsanto Chemicals Limited. Polyphenylene resins containing carboxylic groups. 3,444,144, 5-13-69, Cl. 260-78.4
Neale, Denis Manktelow; and Smith, Leslie John George, to Ilford Limited. Method of classifying photographic material. 3,455,632, 7-15-69, Cl. 355-77.
Neale, Denis M., to Ilford Limited. Photographic colour printers and processes. 3,447,871, 6-3-69, Cl. 355-18.
Neale, Dory J., Sr. Tree trimmer. 3,427,717, 2-18-69, Cl. 30-180.
Neale, Dory J., Sr. Tape splicing and anchoring apparatus. 3,464,660, 9-2-69, Cl. 248-61.
Neale, Dory J., Sr. Tape dispensing cable spinning machine. 3,482,818, 12-9-69, Cl. 254-134.3
Neale, Junius B.: *See—*
Munday, James C.; and Neale, Junius B.,3,422,514.
Neale, Noel William Thomas; and Morden, Brian Ronald, to Marconi Company Limited, The. Varactor diode devices. 3,452,255, 6-24-69, Cl. 317-234.
Neale, Roderick Frank: *See—*
Bethell, James Robert; Gasson, Edward James; Hadley, David James; and Neale, Roderick Frank,3,435,069.
Neapolitakis, Nicholas T., to Motorola, Inc. Tape player cartridge ejector circuit. 3,439,184, 4-15-69, Cl. 307-141.
Neapolitakis, Nicholas T.; and White, William H., Jr., to Motorola, Inc. Fluid level indicator. 3,432,840, 3-11-69, Cl. 340-244.
Neary, Ralph E., to Schlage Lock Company. Removable lock cylinder mechanism. 3,434,316, 3-25-69, Cl. 70-371.
Nease, John C., to Engelhard Minerals & Chemicals Corporation, mesne. Use of clay in systems containing vinyl monomers. 3,450,666, 6-17-69, Cl. 260-40.
Neathery, William D.: *See—*
Mackenzie, Neil J.; and Neathery, William D.,3,457,997.
Nebe, Erich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of glyoxal. 3,429,929, 2-25-69, Cl. 260-601.
Nebel, Erhard Max: *See—*
Nebel, Max Bruno; and Nebel, Erhard Max,3,430,462.
Nebel, Max Bruno; and Nebel, Erhard M.,3,430,463.
Nebel, Ilse Ursula: *See—*
Hartel, Heinz; Nebel, Ilse Ursula; and Bier, Gerhard,3,427,286.
Hartel, Heinz; and Nebel, Ilse,3,455,882.
Nebel, Max Bruno; and Nebel, Erhard M., to Hanes Corporation. Method and apparatus for making run-resistant knitted fabric. 3,430,463, 3-4-69, Cl. 66-42.
Nebel, Max Bruno; and Nebel, Erhard Max, to Hanes Corporation. Method and apparatus for knitting run-resistant fabric. 3,430,462, 3-4-69, Cl. 66-42.
Nebelung, Raymond G.: *See—*
Test, Robert L.; Baker, Hayward R.; and Nebelung, Raymond G.,3,457,881.
Nebiker, Fred R.; Aebischer, Albert C.; and Knight, Richard E., to Goodyear Aerospace Corporation. Expandable nozzle. 3,482,783, 12-9-69, Cl. 239-165.15
Nebolsine, Ross. Apparatus effecting and controlling the filtration of fluids and recharge of underground formations by special wells. 3,482,627, 12-9-69, Cl. 166-51.
Nebraska, State of: *See—*
Anderson, John E., 3,453,877.
Nebraska, State of, Department of Agriculture and Inspection of the: *See—*
Prahl, Helmut F.; and Hart, Frederick M., 3,466,252.
Necas, Joseph: *See—*
Mark, Alexander H.; and Necas, Joseph,3,426,760.
Necchi Societa per Azioni: *See—*
Bono, Luigi, 3,440,980.
Bono, Luigi, 3,460,772.
Sillano, Pietro, 3,480,813.
Necessa Products Company: *See—*
Musante, Thomas J., 3,433,449.
Nechleba, Miroslav: *See—*
Hosnedl, Vaclav; and Nechleba, Miroslav,3,433,165.
Nechvatal, Stanley R.; and Parks, William N., to Hercules Incorporated. Apparatus for crimping thermoplastic yarns. 3,457,611, 7-29-69, Cl. 28-1.
Nechvatal, Stanley R.; and Parks, William N., to Hercules Incorporated. Process for crimping thermoplastic yarns. 3,471,911, 10-14-69, Cl. 28-72.
Neckerman, William G., to Kendall Company, The. Covering for seed bed or plant. 3,482,609, 12-9-69, Cl. 139-383.
Nectoux, Andre, to Societe des Forges et Ateliers du Creusot. Anti-collision facility used for two moving vehicles travelling on the same track. 3,424,102, 1-28-69, Cl. 104-152.
Nectoux, Andre, to Societe des Forges et Ateliers du Creusot. Installation comprising a cradle for supplying ingots to a rolling mill. 3,430,781, 3-4-69, Cl. 214-1.
Nedelec, Lucien: *See—*
Bertin, Daniel; Pierdet, Andre; Nedelec, Lucien; and Gasc, Jean-Claude,3,472,884.
Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude,3,472,885.
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.
Nedelec, Maurice, to Compagnie de Saint-Gobain. Method of and apparatus for the shaping of plastic sheets. 3,459,521, 8-5-69, Cl. 65-25.
Nedelec, Maurice; and Chaumont, Henri, to Compagnie de Saint-Gobain. Method and apparatus for supporting sheets on a gaseous bed. 3,449,102, 6-10-69, Cl. 65-25.
Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie: *See—*
Leersnijder, Carolus Pieter; and Lifschitz, Gabriel Zwy, 3,473,111.
Reefman, Pieter David Cornelis, 3,444,388.
Spanjersberg, Arie Adriaan, 3,436,010.
van Berkel, Petrus Ludovicus Maria; and Spanjersberg, Arie Adriaan, 3,437,793.
van Dalen, Christiaan Johannes, 3,462,550.
Van Duuren, Hendrik Cornelis Anthony; Da Silva, Herman; and Brok, Wilhelm Frederik, 3,457,373.
Van Duuren, Hendrik Cornelis Anthony; Van Dalen, Christiaan Johannes; and Da Silva, Herman, 3,461,238.
van Duuren, Hendrik Cornelis Anthony; Dalen, Christiaan Johannes van; and da Silva, Herman, 3,467,776.
vanDalen, Christiaan Johannes, 3,469,237.
Nederlandse Centrale Organisatie voor schappelijk Onderzoek ten behoeve van Nijverheid: *See—*
Ten Cate, Wilhelm, 3,433,063.
Nederlandse Centrale Organisatie voor Toegepast- Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid: *See—*
Bok, Cornelis; Selling, Hendrik Johannes; and Van Den Boom, Martinus Adriaan, 3,447,310.
de Lange, Robert Gerardus; Verbraak, Cornelis Antonius; and Zijderveld, Jacobus Antonius, 3,450,372.
Hirs, Gilles Gerardus, 3,420,583.
Nederlandse Centrale Organisatie voor Toegepast-Nat uurwetenschappelijk Onderzoek ten behoeve van Nijverheid: *See—*
Smit, Wilhelm Matthijs; and Arkenbout, Gerardus Johannes, 3,463,606.
Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid: *See—*
Verkaik, Arie; and Bouwer, Leonardus, 3,483,723.
Nederlof, Bastiaan K.; and van der Stap, Hendricus G. M., to GAF Corporation. Exposure assembly for light sensitive diazo-type copy paper. 3,482,918, 12-9-69, Cl. 355-110.
Nederlof, Bastiaan Klaas; Bijl, Dingeman; and van der Meij, Jan Johannes, to N.V. Lichtdrukpapierfabriek 'De Atlas'. Photoprinting apparatus. 3,434,078, 3-18-69, Cl. 95-73.
Nedosekov, Svyatoslav Semenovich: *See—*
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Sameljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich,3,457,462.
Nedschroef Octrooi Maatschappij N.V.: *See—*
van de Meerendonk, Gerardus Cornelis, 3,477,077.
Nedsten, Hans Ludvig. Method for making chipping tools for spiral chippers. 3,443,457, 5-13-69, Cl. 76-101.
Nedwick, Zygmund, to Athletic Devices, Inc. Resister football trainer. 3,451,677, 6-24-69, Cl. 273-55.
Nedyalkov, Arkady Petrovich. Device for automatic control over gear shifting in gear box. 3,472,100, 10-14-69, Cl. 74-859.

Nee & McNulty, Inc.: *See—*
McNulty, Frank E.; Nee, Robert M.; and Martin, Charles J., 3,420,722.
Nee, Robert M.: *See—*
McNulty, Frank E.; Nee, Robert M.; and Martin, Charles J.,3,420,722.
Neeb, Milton H., to Stone Conveyor Company, Inc. End mill fixture. 3,447,271, 6-3-69, Cl. 51-225.
Needham, Brian John; and Smith, Michael Arthur, to Whiffen & Sons Limited. Hydrazine recovery process. 3,469,940, 9-30-69, Cl. 23-190.
Needham, Donald G.; and Hill, George R., to Phillips Petroleum Company. Polyolefin-white pigment composition stabilized with mixtures of a fatty acid and an ultraviolet light stabilizer. 3,444,115, 5-13-69, Cl. 260-23.
Needham, Donald G.; and Kier, Denney M., to Phillips Petroleum Company. Polyolefin foam. 3,475,354, 10-28-69, Cl. 260-2.5
Needham, Donald G.: *See—*
Hill, George R.; and Needham, Donald G.,3,432,461.
Hill, George R.; and Needham, Donald G.,3,468,827.
Needham, James C., to Welding Institute, The. Electric arc stabilisation. 3,444,430, 5-13-69, Cl. 315-171.
Needham, James C., to Welding Institute, The. Controlled arc welding. 3,449,544, 6-10-69, Cl. 219-131.
Needham, Oliver S., Jr.: *See—*
Grekila, Richard B.; and Needham, Oliver S., Jr.,3,457,102.
Needham, Riley B., to Phillips Petroleum Company. Method and apparatus for removing oil from oil-yielding solids. 3,487,001, 12-30-69, Cl. 208-11.
Needle Industries Limited: *See—*
Sanders, Norman Thomas, 3,444,995.
Needles, Howard L.; and Whitfield, Robert E., to United States of America, Agriculture. Crosslinking of collagens employing a redox system comprising persulphate and a reducing agent. 3,427,301, 2-11-69, Cl. 260-117.
Neefe, Charles W. Process for making an improved bifocal lens. 3,440,306, 4-22-69, Cl. 264-1.
Neeff, Joachim: *See—*
Zywietz, Walter; Gantke, Franz; Seiz, Rudolf; Lichtenbaumer, Hans-Gunther; and Neeff, Joachim,3,438,211.
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,470,178, 9-30-69, Cl. 260-249.
Neeff, Rutger; Gohrbandt, Wilhelm; and Kuth, Robert, to Farbenfabriken Bayer Aktiengesellschaft. Process for dyeing and printing polyester textile materials with 2-arylsulfonyl anthraquinone dyestuffs. 3,486,837, 12-30-69, Cl. 8-39.
Neel, Donald L.: *See—*
Hestad, Alfred M.; and Neel, Donald L.,3,482,052.
Neel, Emmanuel E.: *See—*
Chassagne, Pierre C.; and Neel, Emmanuel E.,3,457,772.
Neel, Jean: *See—*
Bonnel, Bernard; and Neel, Jean,3,437,625.
Neel, Jean; and Bonnel, Bernard, to Progil. Acrylo-silicate binders for coating compositions. 3,450,661, 6-17-69, Cl. 260-29.6
Neel, Louis; Bruyere, Jean-Claude; Massenet, Olivier; and Montmory, Robert, to Centre National de la Recherche Scientifique. Thin-film magnetic structures and application to magnetic memories. 3,484,757, 12-16-69, Cl. 340-174.
Neely, Robert E.; and Limonczenko, Alex D., to Joy Manufacturing Company. Dust collector. 3,420,040, 1-7-69, Cl.
Neenan, Patrick Anthony: *See—*
Howard, John Christie; Howard, John Farquhar; Allen, Alec George; and Neenan, Patrick Anthony,3,435,878.
Neer, Harold M., Jr.: *See—*
Burk, Marvin C.; and Neer, Harold M., Jr.,3,448,291.
Vesper, Daniel M.; and Neer, Harold M.,3,440,397.
Neff, Benjamin C., Jr.: *See—*
Kuhn, Lee H., 3,470,888.
Neff, Charles W.; and Huntsman, Raleigh L., to McDonnell Douglas Corporation, mesne. Nestable shaped cargo carrier construction. 3,469,730, 9-30-69, Cl. 220-5.
Neff, Eugene E., to Celanese Corporation. Spun yarn. 3,456,434, 7-22-69, Cl. 57-139.
Neff, Frederick R. Automatic assembly machine. 3,463,331, 8-26-69, Cl. 214-8.5
Neff Instrument Corporation: *See—*
Ball, Newton E.; and Gillette, Garry Carter, 3,448,398.
Neff, Robert J.: *See—*
Armstrong, George W.; and Neff, Robert J.,3,486,139.
Neff, Robert J. Electrically-operated valve. 3,424,426, 1-28-69, Cl. 251-30.
Neff, William B. Dual venturi anesthetic gas circulating device. 3,463,151, 8-26-69, Cl. 128-188.
Negersmith, Kent M.: *See—*
Pelavin, Milton H.; Weschler, William A.; and Negersmith, Kent M.,3,427,135.
Negirev, Alexandr Andreevich: *See—*
Golant, Mikhail Borisovich; Negirev, Alexandr Andreevich; Tager, Alexandr Semnovich; Pobedonostsev, Alexandr Sergeevich; Zjulina, Elena Aristarkhovna; and Samorodova, Galina Alexandrovna,3,436,690.
Negishi, Eiichi; Horike, Akihiro; and Ishizuka, Yoshio, to Teijin Limited. Process for preparing a highly elastic linear polymer and an elastic article produced therefrom from isocyanate terminated prepolymers reacted with an aminohydrozide. 3,467,626, 9-16-69, Cl. 260-75.
Negishi, Eizaburo, to Kabushiki Kaisha Negishi Kogyo Kenkyusho. Method and device for rotary conveying of fibers. 3,447,299, 6-3-69, Cl. 57-58.89
Negishi, Eizaburo, to Kabushiki Kaisha Negishi Kogyo Kenkyusho. Weft-replenishing mechanism for adjacent looms. 3,450,166, 6-17-69, Cl. 139-1.
Negishi, Ryoichi: *See—*
Ono, Shigeo; Kayano, Seiichi; and Negishi, Ryoichi,3,465,934.
Negishi, Tokuji: *See—*
Takemi, Kiyoji; and Negishi, Tokuji,3,484,110.
Negoro, Akio: *See—*
Kimura, Kenjiro; Negoro, Akio; Kojima, Yasuo; and Saiji, Tsutomu,3,427,797.
Negoro, Harutada; Awada, Etsuo; Ikegami, Yoshihiko; Akagi, Saburo; and Matsui, Katsuaki, to Sankyo Company, Limited. Polyvinyl acetal dialkylamino acetate and polyvinyl pyranylether dialkylamino acetate. 3,477,995, 11-11-69, Cl. 260-73.
Negra, John S.: *See—*
Warshaw, Abe; Negra, John S.; and Bernas, Arnold R.,3,466,159.
Negrevergne, Georges. Novel pyrazolidone derivatives substituted on the 4 position with a phenol-HCHO-polyamine ion exchange resin. 3,487,046, 12-30-69, Cl. 260-51.5
Negri, Emilio; and Cassera, Giorgio. Regulating and driving device for clockwork of the electromagnetic type. 3,461,664, 8-19-69, Cl. 58-28.
Negus, Albert I., Jr. Animal shipping box. 3,486,680, 12-30-69, Cl. 229-32.
Nehmsmann, Louis J.; and Schenck, Leslie M., to GAF Corporation. Phosphate esters of alkoxylated straight-chain primary alcohols. 3,462,520, 8-19-69, Cl. 260-950.
Nehra, Samuel A.: *See—*
MacNairn, John S.; La Brecque, Raymond E.; and Nehra, Samuel A.,3,481,772.
Nehrich, Richard B., Jr.: *See—*
Schimitschek, Erhard J.; Nehrich, Richard B., Jr.; and Trias, John A.,3,450,641.
Nehring, John Richard, to Becton, Dickinson and Company. Apparatus for taking multiple fluid samples. 3,469,572, 9-30-69, Cl. 128-2.
Nehring, Rudolf; Feinauer, Roland; and Seeliger, Wolfgang, to Chemische Werke Huls Aktiengesellschaft. Method for the preparation of segment polyesters with short, alternating segments of polycarbonate and polyester. 3,470,268, 9-30-69, Cl. 260-860.
Nehring, Rudolf: *See—*
Seeliger, Wolfgang; and Nehring, Rudolf,3,433,756.
Neidecker, Rudolf, to Multi-Contack AG. Electrical connector. 3,453,587, 7-1-69, Cl. 339-256.
Neider, F. A., Company, The: *See—*
Reynolds, Frederick N., 3,440,693.
Neider, F. A., Company, The: *See—*
Reynolds, Frederick N.; and Neider, F. A., Company, The,3,425,101.
Neidhart, Alfred, to Merkurium A.G. Device for delivering supplementary air to the fuel-air mixture in four-stroke-cycle engines. 3,431,899, 3-11-69, Cl. 123-119.
Neidhart, Hermann J.; and Neidhart, Rico. Method for the assembly of torsionally elastic connection elements. 3,444,609, 5-20-69, Cl. 29-451.
Neidhart, Rico: *See—*
Neidhart, Hermann J.; and Neidhart, Rico,3,444,609.
Neidig, Dan, to National Uni-Pac, Inc., mesne. Merchandise vending machine. 3,442,422, 5-6-69, Cl. 221-94.
Neidl, Wilhelm: *See—*
Hanisch, Emil; Pretterhofer, Leopold; and Neidl, Wilhelm,3,438,533.
Neidleman, Saul Lewis: *See—*
Kinney, Roland Walter; Neidleman, Saul Lewis; Weisenborn, Frank Lee; and Schwarz, John Samuel Paul,3,462,487.
Schwarz, John Samuel Paul; Weisenborn, Frank L.; and Neidleman, Saul Lewis,3,438,999.
Neidleman, Saul L.; Kinney, Roland W.; and Weisenborn, Frank L., to Squibb, E. R., & Sons, Inc.7-Chloro-4-dedimethylamino-12,12α-secotetracycline- 12-oic acid-6,12-lactones. 3,463,791, 8-26-69, Cl. 260-343.6
Neier, Reinhard, to Sandoz Ltd., a/k/a Sandoz A.G. Chromium containing mixed azo dyes. 3,432,485, 3-11-69, Cl. 260-145.
Neiger, Benjamin B., to Clarlex Corporation. Direct current amplifier employing photoelectric chopper with incandescent drivers. 3,433,962, 3-18-69, Cl. 250-209.

Neighbor, James B., to FMC Corporation. Method and apparatus for separating solids- liquids mixtures. 3,438,890, 4-15-69, Cl. 210-14.
Neighbors, Ralph P., to Gulf Oil Corporation. Method of combating undesired plant growth with substituted carboxamidooxyalkanoic acids and salts thereof. 3,449,113, 6-10-69, Cl. 71-106.
Neighbors, Ralph P., to Gulf Oil Corporation. Methods of controlling weeds with derivatives of aminooxy lower alkanoic acids. 3,457,063, 7-22-69, Cl. 71-115.
Neighbors, Ralph P.; and Phillips, Lee V., to Gulf Research & Development Company. Triazine herbicides. 3,451,802, 6-24-69, Cl. 71-93.
Neighorn, Roy G., to Omark Industries, Inc. Powder actuated tool. 3,469,504, 9-30-69, Cl. 92-85.
Neikirk, David W.: *See—*
Stamps, Otis C.; and Neikirk, David W.,3,464,626.
Neikirk, Gerald R.: *See—*
Wimer, William E.; Bowers, Bobby O.; and Neikirk, Gerald R.,3,423,477.
Neil & Spencer Limited: *See—*
Palmer, James, 3,451,234.
Neill, Daniel L.: *See—*
Filchak, Robert W.; and Neill, Daniel L.,3,422,384.
Neill, Daniel L., to Aiken, Howard, Industries, Inc. Hybrid electromechanical-semiconductor circuit breaker. 3,483,432, 12-9-69, Cl. 317-58.
Neill, Elvin D.: *See—*
Canfield, Brett J.; 3,425,221.
Neils, Kenneth G. Manipulative toy for child participation. 3,455,464, 7-15-69, Cl. 212-65.
Neilsen, Hildaul L.: *See—*
Neustadter, Arnold; and Neilsen, Hildaul L.,3,474,694.
Neilsen, Hildaur L. Paper punching device. 3,469,486, 9-30-69, Cl. 83-522.
Neilsen, Hildaur L.: *See—*
Neustadter, Arnold; and Neilsen, Hildaur L.,3,485,130.
Neilsen, Peter C. Tire tread cutting apparatus and method. 3,426,828, 2-11-69, Cl. 157-13.
Neilson, Anne Josephine: *See—*
Kuhr, Wayne Kenneth; Slakis, Albin Joseph; Hughes, Richard Lawrence; and Neilson, Anne Josephine,3,432,305.
Neilson, Roger L. Assemblable multiple top spinning device and apparatus. 3,449,859, 6-17-69, Cl. 46-67.
Neilson, William J., to Smith Industries International, Inc. Rock bit and bearing. 3,476,446, 11-4-69, Cl. 308-8.2
Neiman, Alfred S.: *See—*
De Marchi, Vincent S.; Neiman, Alfred S.; and Wigton, Henry F.,3,453,104.
Neiman, Howard H.: *See—*
Hunt, Glenn H.; and Neiman, Howard H.,3,453,766.
Neipert, Marshall P.: *See—*
Moolenaar, Robert J.; and Neipert, Marshall P.,3,447,897.
Neises, Helmut: *See—*
Hloch, Albert; Kohlhaas, Rudolf; Medic, Nikolay; and Neises, Helmut,3,445,257.
Neish, David Anthony: *See—*
Gray, Trevor; and Neish, David Anthony,3,480,954.
Neish, David Anthony; and Botcherby, Stephen Charles Lauder, to Decca Limited. Doppler velocity measuring apparatus. 3,442,590, 5-6-69, Cl. 356-28.
Neish, David Anthony; and Botcherby, Stephen Charles Lauder, to Decca Limited. Vibration responsive apparatus. 3,482,436, 12-9-69, Cl. 73-71.3
Neisser, Philip B.; and Boley, Morris V., to United States of America, Treasury. Composite metal containing copper for coinage purposes. 3,466,157, 9-9-69, Cl. 29-199.
Neiswander, Robert S.; and Rhiner, Walter, to TE Company, The. Digital scene data recording and display system. 3,466,389, 9-9-69, Cl. 178-6.7
Neitzel, Edwin B., to Texas Instruments, Incorporated. Read after write digital field system monitor. 3,437,990, 4-8-69, Cl. 340-15.5
Neitzel, Edwin B., to Texas Instruments, Incorporated. Photographic recorder using an array of solid state light emitters. 3,438,057, 4-8-69, Cl. 346-107.
Neitzel, Joseph C.: *See—*
Day, Richard D.; and Neitzel, Joseph C.,3,437,033.
Nejame, Samuel, Jr., to International Equipment Company. Gradient forming pumps and method. 3,443,520, 5-13-69, Cl. 103-6.
Nejezchleb, Vladimir: *See—*
Badum, Paul J.; Baumeister, Heard K.; and Nejezchleb, Vladimir,3,442,419.
Nekton, Armas H. Game board with pieces having recording means thereon. 3,477,715, 11-11-69, Cl. 273-136.
Nelan, Donald R., to Eastman Kodak Company. Continuous process for producing dl alpha tocopherol. 3,444,213, 5-13-69, Cl. 260-345.5
Nelboeck-Hochstetter, Michael; and Haid, Erich, to Boehringer, C. F., & Soehne GmbH. Process for the preparation of hexose-1,6- and pentose-1,5-diphosphate. 3,475,413, 10-28-69, Cl. 260-234.
Nelco Chemical Company: *See—*
Pessimisis, George N., 3,425,957.
Nelco Corporation: *See—*
Ogawa, Hatsutaro, 3,481,305.
Nelken, Alfred: *See—*
Baez, Edgar R.; Heinke, Walter M.; and Nelken, Alfred,3,433,940.
Nelken, Harvey H., to Foster Wheeler Corporation. Tandem separator arrangement. 3,450,106, 6-17-69, Cl. 122-491.
Nelkin, Arthur; Durgin, Charles B.; Geil, Fred G.; and Thompson, John H., to Westinghouse Electric Corporation. Perimeter intrusion alarm. 3,438,021, 4-8-69, Cl. 340-261.
Nell, David J.: *See—*
Einstein, Edward; and Nell, David J.,3,483,280.
Nellen, Horst: *See—*
Steffen, Hermann; Jones, Rodney; and Nellen, Horst,3,467,225.
Nellen, William Joseph, to American Machine & Foundry Company. Demineralization and ion transfer apparatus. 3,461,060, 8-12-69, Cl. 204-301.
Nellessen, Alfred H.; and Schoonover, Robert J., to Minnesota Mining and Manufacturing Company. Retroreflective structure and method of making same. 3,420,597, 1-7-69, Cl. 350-105.
Nellis, Stewart; and Lamp, Richard W., to Technical Wire Products, Inc. Electromagnetic shield and viewing laminate. 3,431,348, 3-4-69, Cl. 174-35.
Nellis, William M., to International Electric Fence Co., Inc. Time control fence charger. 3,440,439, 4-22-69, Cl. 307-132.
Nelms, Thomas G. Center core for rolls of pressure-sensitive adhesive tape and methods of making same. 3,448,774, 6-10-69, Cl. 138-144.
Nelsen, Alice E.; and Nelsen, Robert J. Dental polishing apparatus. 3,472,045, 10-14-69, Cl. 64-4.
Nelsen, Lloyd L., to Parma Water Lifter Company. Sewage chopper pump. 3,456,592, 7-22-69, Cl. 103-111.
Nelsen, Marvin G.: *See—*
Adams, Andrew O.; Nelsen, Marvin G.; Tapp, David J.; and Schuessler, John C.,3,484,729.
Nelsen, Robert J.: *See—*
Nelsen, Alice E.; and Nelsen, Robert J.,3,472,045.
Nelsen, Roger J.: *See—*
Hook, Bernard K.; and Nelsen, Roger J.,3,480,180.
Nelson, Albert C.: *See—*
Johnson, Kenneth M.; and Nelson, Albert C.,3,482,618.
Nelson, Alfred M.; and Griffiths, Henry W., to Magnavox Company, The. Magneto-optical reproducer. 3,474,428, 10-21-69, Cl. 340-174.1
Nelson, Alfred R.: *See—*
Jahn, Alex K.; and Nelson, Alfred R.,3,442,881.
Nelson, Alvin I,; and Kwiat, Eugene V., to University of Illinois Foundation. Method and apparatus for freeze-dehydration of sliced food materials. 3,446,635, 5-27-69, Cl. 99-208.
Nelson, Alvin I.: *See—*
Skruch, Norman J.; Nelson, Alvin I.; and Reiter, Alexander L.,3,447,337.
Nelson, Ardell H., to Pittsburgh-Des Moines Steel Company. Floating roof seal. 3,434,619, 3-25-69, Cl. 220-26.
Nelson, Ardell H., to Pittsburgh-Des Moines Steel Company. Liquid storage container. 3,481,504, 12-2-69, Cl. 220-9.
Nelson, Arthur J. Deep water harvesting system. 3,429,062, 2-25-69, Cl. 37-57.
Nelson, Arthur J. Joint construction. 3,429,588, 2-25-69, Cl. 285-11.
Nelson, Arthur J. Submergible apparatus motor drive. 3,432,704, 3-11-69, Cl. 310-87.
Nelson, Arthur J. Increased capacity thrust bearing assembly. 3,438,462, 4-15-69, Cl. 184-6.
Nelson, Arthur L.: *See—*
Gimpel, Donald J.; and Nelson, Arthur L.,3,478,297.
Nelson, Arthur L., to Electro Oceanics, Inc., mesne. Fluidproof end connector. 3,478,298, 11-11-69, Cl. 339-61.
Nelson, Arthur W. Tow bar arresting device. 3,430,789, 3-4-69, Cl. 214-86.
Nelson, Arthur W. Automobile towing device. 3,434,607, 3-25-69, Cl. 214-86.
Nelson, Arthur W. Automobile towing device. 3,434,608, 3-25-69, Cl. 214-86.
Nelson, Arthur W. Refuse truck. 3,454,174, 7-8-69, Cl. 214-83.3
Nelson, Arthur. Arithmetic musical playing device. 3,486,245, 12-30-69, Cl. 35-31.
Nelson, Bertel S., to Bicor Products, Inc. Pressurized washing system. 3,454,030, 7-8-69, Cl. 137-112.
Nelson, Carl Edward, to Merck & Co., Inc. Compositions of perphenazine and protriptyline for treating mental disorders. 3,478,151, 11-11-69, Cl. 424-247.
Nelson, Carl E.; Baer, John E.; and Foltz, Elwood L., to Merck & Co., Inc. Diuretic combinations of hydrochlorthiazide and ethacrynic acid. 3,476,858, 11-4-69, Cl. 424-246.
Nelson, Carl S.: *See—*
Armstrong, Kirk R.; Mikolyczyk, Edward C.; and Nelson, Carl S.,3,463,408.
Nelson, Charles A., to Sperry Rand Corporation. Balanced bit-sense matrix. 3,465,312, 9-2-69, Cl. 340-174.

Nelson, Clifford H.; and Gurtler, Charles A., to United States of America, national Aeronautics and Space Administration. Ablation sensor. 3,425,268, 2-4-69, Cl. 73-86.

Nelson, Dallas E.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,412.

Nelson, Dana Walker, to Dresser Industries, Inc. Blend control unit interlock. 3,424,348, 1-28-69, Cl. 222-134.

Nelson, David V.: *See—*
Grawey, Charles E.; Koch, Keith E.; Nelson, David V.; and Untz, Robert W.,3,486,317.

Nelson, Donal P. Right triangular building components. 3,445,970, 5-27-69, Cl. 52-71.

Nelson, Donald A.; and Frankulin, Robert C., to U.S. Dimension Products, Inc. Coin actuated calendar bank. 3,470,993, 10-7-69, Cl. 194-72.

Nelson, Donald F., to Bell Telephone Laboratories, Incorporated. Electro-optic diode modulators. 3,462,711, 8-19-69, Cl. 332-7.51

Nelson, Donald F.; and Reinhart, Franz K., to Bell Telephone Laboratories, Incorporated. Semiconductor junction electro- optic light modulator. 3,462,211, 8-19-69, Cl. 350-150.

Nelson, Donald M., to North American Rockwell Corporation. Cable control. 3,431,794, 3-11-69, Cl. 74-529.

Nelson, Donald R., to Goddard Industries, Inc. Coupling. 3,430,990, 3-4-69, Cl. 285-158.

Nelson, Donald R., to Goddard Industries, Inc. Top entry valve. 3,471,122, 10-7-69, Cl. 251-327.

Nelson, Edgar L.: *See—*
Roscoe, Howard E.; and Nelson, Edgar L.,3,478,974.

Nelson, Edward J., to Ballantyne Instruments and Electronics, Inc. Filter system for deep fat fryer. 3,483,982, 12-16-69, Cl. 210-167.

Nelson, Edwin F., to Universal Oil Products Company. Method of treating coal. 3,477,941, 11-11-69, Cl. 208-8.

Nelson, Eugene L., to Tecumseh Products Company. Carburetor primer and throttle control mechanism. 3,451,383, 6-24-69, Cl. 123-187.5

Nelson, Forrest A., to Varian Associates. Nuclear magnetic resonance probe for spectrometers having an internal reference nuclei different than the nuclei under observation. 3,427,532, 2-11-69, Cl. 324-0.5

Nelson, Forrest A., to Varian Associates. Nuclear magnetic resonance probe apparatus having double tuned coil systems for spectrometers employing an internal reference. 3,434,043, 3-18-69, Cl. 324-0.5

Nelson, Forrest A.; Anderson, Weston A.; and Rock, John V., to Varian Associates. Magnetic field homogeneity control apparatus. 3,443,209, 5-6-69, Cl. 324-0.5

Nelson, Forrest A.; and Ernst, Richard R., to Varian Associates. Phase sensitive analog fourier analyzer readout for stored impulse resonance spectral data. 3,461,381, 8-12-69, Cl. 324-0.5

Nelson, Forrest Arthur, to Varian Associates. Superconducting magnet apparatus. 3,450,952, 6-17-69, Cl. 317-123.

Nelson, Forrest W., to Smith, A. O., Corporation. Method of internally coating tubular members with glass. 3,484,266, 12-16-69, Cl. 117-18.

Nelson, Frank O. Orthodontic headgear. 3,423,832, 1-28-69, Cl. 32-14.

Nelson, Frank O. End tube for orthodontic arch wire. 3,486,231, 12-30-69, Cl. 32-14.

Nelson, George L. Removable load covers. 3,485,524, 12-23-69, Cl. 296-100.

Nelson, George L.: *See—*
Troland, Edwin Parker; and Nelson, George L.,3,473,367.

Nelson, George R.: *See—*
Ferrarini, Louis James; Homonoff, Harold J.; and Nelson, George R.,3,469,979.

Nelson, Gladys: *See—*
Nelson, Vern Eldon,3,428,333.

Nelson, Gosta Ingemar, to Aktiebolaget Volvo. Intake system for internal combustion engines having at least two carburettors. 3,441,008, 4-29-69, Cl. 123-52.

Nelson, Gosta Ingemar, to Aktiebolaget Volvo. Device for preheating the fuel-air mixture in carburetor engines. 3,456,634, 7-22-69, Cl. 123-122.

Nelson, Harry A.; Ocland, Ernest N., Jr.; Miller, Howard A.; and Blatt, Milton D., to United States of America, Navy. Missile nose cap. 3,477,376, 11-11-69, Cl. 102-54.

Nelson, Harve P.: *See—*
McFerrin, William D.; and Nelson, Harve P.,3,477,372.

Nelson, Herbert C.; and Appel, David W., to Kimberly-Clark Corporation. Papermaking apparatus including two wire sheet formers having means for air purging. 3,440,136, 4-22-69, Cl. 162-275.

Nelson, Herbert, to Radio Corporation of America. Light-emitting semiconductor having relatively heavy outer layers for heat-sinking. 3,428,845, 2-18-69, Cl. 313-108.

Nelson, Herbert, to Ferroxcube Corporation of America. Segmented sensing system for a magnetic memory. 3,487,384, 12-30-69, Cl. 340-174.

Nelson, Hiding E., to Sperry Rand Corporation. Manually operable format control unit for the real-time operation of a data processing system. 3,480,945, 11-25-69, Cl. 340-345.

Nelson, Hugh Wharton; and Norton, Charles L., to Combustion Engineering, Inc. Method of preventing smelt-water explosions. 3,447,895, 6-3-69, Cl. 23-48.

Nelson, Iver L.; and Dettman, Harold V., to Hoerner-Waldorf Corporation. Bag opening apparatus. 3,465,499, 9-9-69, Cl. 53-386.

Nelson, James A., to General Electric Company. Propulsion units for use with electric drive vehicles. 3,468,389, 9-23-69, Cl. 180-65.

Nelson, James A.: *See—*
Engle, Charles E.; and Nelson, James A.,3,464,508.

Nelson, Jerome W.: *See—*
Meister, Robert P.; and Nelson, Jerome W.,3,462,579.
Rieppel, Perry J.; and Nelson, Jerome W.,3,461,540.

Nelson, Jerome W.; and Lewis, Wallace J., to Battelle Development Corporation, The. Apparatus for guiding electrodes. 3,432,638, 3-11-69, Cl. 219-125.

Nelson, Jerome W.; and Lewis, Wallace J., to Battelle Development Corporation, The. Floating gas-shielding apparatus. 3,457,387, 7-22-69, Cl. 219-125.

Nelson, Jerome W.; and Rieppel, Perry J., to Esso Research and Engineering Company, mesne. Apparatus and method for welding metal pipes and the like. 3,427,428, 2-11-69, Cl. 219-125.

Nelson, Jerome W.; and Sims, Eugene F., to CRS-Crose International, Inc. Method and apparatus for welding girth joints in pipelines. 3,461,264, 8-12-69, Cl. 219-60.

Nelson, John Allison: *See—*
Tomeo, Anthony; Nelson, John Allison; and Hoffmann, Arthur H.,3,440,509.

Nelson, John D., to General Electric Company. One step process for preparing the reaction product of a spaced polyphenol, phenol and an aldehyde. 3,445,431, 5-20-69, Cl. 260-51.

Nelson, John D., to General Electric Company. Reaction of a spaced polyphenol, phenol and an aldehyde. 3,445,432, 5-20-69, Cl. 260-51.

Nelson, John E.; and Saltz, John R., to Diamond Power Specialty Corporation. Long retracting soot blower. 3,439,376, 4-22-69, Cl. 15-317.

Nelson, John F., to Illinois Tool Works, Inc. Fluid distribution unit. 3,470,893, 10-7-69, Cl. 137-68.

Nelson, John F., to Illinois Tool Works Inc. Snap-in fastener. 3,486,202, 12-30-69, Cl. 24-73.

Nelson, John H. Game board comprising rotatable annular path changing members. 3,458,199, 7-29-69, Cl. 273-134.

Nelson, John R., Jr.; and Hayes, Tyler K., to Eagle-Picher Industries, Inc. Vacuum work support. 3,461,838, 8-19-69, Cl. 118-50.

Nelson, John T., Jr., to Amsted Industries Incorporated. Mold with vent block. 3,454,254, 7-8-69, Cl. 249-141.

Nelson, John W.: *See—*
Beare, Leonard E.; Matson, Howard J.; and Nelson, John W.,3,455,844.

Nelson, Josephine. Collapsible coat hanger. 3,430,827, 3-4-69, Cl. 223-89.

Nelson, Kenneth E., to Foxboro Company, The. Control amplifier adapted for integration of an input signal to a translated output signal. 3,426,287, 2-4-69, Cl. 330-13.

Nelson, Kenneth E.; Kipfmiller, Billy G.; and Parizek, Earl, to Dow Chemical Company, The. Quenching technique for hydrodealkylation of alkyl aromatic hydrocarbon. 3,429,942, 2-25-69, Cl. 260-672.

Nelson, Kenneth W.: *See—*
Stucky, Fritz C.; and Nelson, Kenneth W.,3,460,308.

Nelson, Kenneth W., to Procter & Gamble Company, The. Baker's all-purpose, plastic shortening composition. 3,429,714, 2-25-69, Cl. 99-118.

Nelson, Kurt, to De Laval Separator Company, The. Liquid level controller. 3,433,249, 3-18-69, Cl. 137-390.

Nelson, Kurt, to De Laval Separator Company, The. Steam injector for a milk sterilizer. 3,451,327, 6-24-69, Cl. 99-251.

Nelson, Kurt, to De Laval Separator Company, The. Variable speed power transmission. 3,482,770, 12-9-69, Cl. 233-7.

Nelson, L. R., Mfg. Co., Inc.: *See—*
Bruninga, Kenneth J., 3,477,643.

Nelson, Lee E., to Dow Corning Corporation. Polymers and telomers of silacyclobutanes. 3,445,495, 5-20-69, Cl. 260-448.2

Nelson, Lee H.; and Roantree, William J., to Aerodyne Controls Corporation. Pool alarm. 3,475,746, 10-28-69, Cl. 340-261.

Nelson, Lloyd A., to Gerber Products Company. Shipping case with stitched ripcord. 3,469,766, 9-30-69, Cl. 229-51.

Nelson, Lloyd A.: *See—*
Smith, Carl G.; and Nelson, Lloyd A.,3,447,733.

Nelson, Lowell F.; and Hanson, Louis G., to Wood, John, Company. Diaphragm hand pumps. 3,461,808, 8-19-69, Cl. 103-150.

Nelson, Lutillus L. S. Method of installing mud rail. 3,457,628, 7-29-69, Cl. 29-446.

Nelson, Malcolm B.: *See—*
Remaly, Robert F.; Shefcik, William P.; and Nelson, Malcolm B.,3,474,702.

Nelson, Marcus L., to King-Seeley Thermos Co. Ice maker using condenser cooling water as thawing medium. 3,465,537, 9-9-69, Cl. 62-181.
Nelson, Martin L. Golf game with upstanding cups. 3,464,704, 9-2-69, Cl. 273-176.
Nelson, Merritt J.; and Korany, Frank. Ice fishing accessory. 3,466,781, 9-16-69, Cl. 43-4.
Nelson, Milton E. Rotary dental tool. 3,461,563, 8-19-69, Cl. 32-59.
Nelson Muffler Corporation: *See—*
Thomas, Dean G., 3,445,196.
Nelson, Murrell D.: *See—*
Burdyn, Ralph F.; and Nelson, Murrell D.,3,433,312.
Nelson, Norman A. Metering apparatus. 3,443,435, 5-13-69, Cl. 73-224.
Nelson, Norman A., to ACF Industries, Incorporated. Subsea valve and valve operator assembly. 3,466,001, 9-9-69, Cl. 251-25.
Nelson, Norman A. Fluid sampling apparatus. 3,469,453, 9-30-69, Cl. 73-422.
Nelson, Norman A., to Upjohn Company, The. 6,1' -Spirocyclopropyl pregnanes. 3,475,417, 10-28-69, Cl. 260-239.5
Nelson, Norman A.; Tooley, Henry C.; Eilers, Barney A.; and Helenberg, John, to ACF Industries, Incorporated. Plug for spherical plug valve. 3,463,449, 8-26-69, Cl. 251-309.
Nelson, Norman A.; and Vanden Berg, Gray E., to Upjohn Company, The. Phenoxyphenyl alkanesulfonates. 3,462,473, 8-19-69, Cl. 260-456.
Nelson, Patricia. Pleat making guide. 3,454,203, 7-8-69, Cl. 223-34.
Nelson, Paul B., to Sinclair-Koppers Company. Semi-disposable tray. 3,430,803, 3-4-69, Cl. 220-63.
Nelson, Paul C.; and Rutz, Leon E., to Houdaille Industries, Inc. Power bending machine and control means therefor. 3,431,758, 3-11-69, Cl. 72-2.
Nelson, Paul E., to International Business Machines Corporation. Variable period and pulse width delay line pulse generating system. 3,440,546, 4-22-69, Cl. 328-56.
Nelson, Paul: *See—*
Immel, Richard H.; and Nelson, Paul,3,444,104.
Nelson, Ralph A.: *See—*
Dratz, Richard A.; and Nelson, Ralph A.,3,450,557.
Nelson, Ralph H.: *See—*
Ellis, Stancel C.; Hersel, Jorge J.; Johnson, Louis H.; Nelson, Ralph H.; and Yost, Roderick A.,3,454,342.
Nelson, Raymond A., to Sperry Rand Corporation. Automatic control system equalization for aircraft. 3,462,661, 8-19-69, Cl. 318-18.
Nelson, Raymond L.; and Krochalis, Robert W., to Eastman Kodak Company. Image mark arrangement. 3,482,496, 12-9-69, Cl. 95-1.1
Nelson, Richard J.: *See—*
Freifeld, Milton; Mills, George S.; and Nelson, Richard J.,3,426,099.
Nelson, Richard L. Gift box. 3,458,112, 7-29-69, Cl. 229-40.
Nelson, Richard P., to Armour and Company. Production of precooked sliced bacon. 3,429,713, 2-25-69, Cl. 99-107.
Nelson, Richard; and McCormick, John E., to United States of America, Air Force. Production of a cooling module for microelectronic circuits by cathodic sputtering. 3,437,576, 4-8-69, Cl. 204-192.
Nelson, Robert A.: *See—*
Henegar, Hubert B.; and Nelson, Robert A.,3,460,012.
Nelson, Robert E., to General Motors Corporation. Electrical control for automatic transmission. 3,448,640, 6-10-69, Cl. 74-866.
Nelson, Robert E., to Westinghouse Electric Corporation. Fiber optic window and method of mounting same. 3,475,076, 10-28-69, Cl. 350-96.
Nelson, Robert E.; and Boltz, Charles D., Jr., to United States of America, Navy, mesne. Engine synchronizer. 3,479,822, 11-25-69. Cl. 60-97.
Nelson, Robert E.; Green, Russell D.; and Sanders, Robert K., to General Motors Corporation. Electronic fuel control system. 3,482,396, 12-9-69, Cl. 60-39.28
Nelson, Robert K., to Eaton Yale & Towne, Inc. Limited slip differential device. 3,448,635, 6-10-69, Cl. 74-710.5
Nelson, Robert L.; and Nelson, Susan Jane. Rail fence. 3,486,739, 12-30-69, Cl. 256-65.
Nelson, Robert M.; Gott, Gordon E.; and Lynch, John J., to Grace, W. R., & Co. Method of plasticizing rubber films. 3,442,689, 5-6-69, Cl. 117-94.
Nelson, Robert R. Portable shower. 3,431,565, 3-11-69, Cl. 4-154.
Nelson, Rodney A.: *See—*
Fletcher, Jon E.; and Nelson, Rodney A.,3,462,496.
Nelson, Roger F.: *See—*
Rindner, Wilhelm; and Nelson, Roger F.,3,443,165.
Nelson, Roger J.; and Treichel, Richard, to Deere & Company. Hydraulic control system for agricultural tractor rockshafts. 3,455,397, 7-15-69, Cl. 172-9.
Nelson, Roger John; and Treichel, Richard, to Deere & Company. Control mechanism. 3,452,616, 7-1-69, Cl. 74-526.
Nelson, Ronald C.; and Cook, Richard R., to Monsanto Company. Additive injection valve with detachable inlet nozzle. 3,447,561, 6-3-69, Cl. 137-340.
Nelson, Ronald S.: *See—*
Bockman, Carl; Nelson, Ronald S.; and Klein, Walter A.,3,424,593.
Nelson, Roy Bramwell, to Baker Perkins Inc. Chocolate cooler. 3,472,043, 10-14-69, Cl. 62-380.
Nelson, Russell A. Swiveling connector for electric cord. 3,437,976, 4-8-69, Cl. 339-8.
Nelson, Russell Theodore, to Pennsalt Chemicals Corporation. Alkoxy-3,6-endoxohexahydrophthalimides. 3,480,644, 11-25-69, Cl. 260-326.
Nelson, Russell: *See—*
Miller, Harold; and Nelson, Russell,3,466,303.
Nelson, Seymour T.: *See—*
Grey, Jerry; Nelson, Seymour T.; and Williams, Peter M.,3,426,533.
Nelson, Stanford C. Luggage retainer. 3,438,673, 4-15-69, Cl. 296-37.
Nelson, Stanley O., to Lockheed Aircraft Corporation. Spring-biased, adjustable, power driven trail arm for vehicle. 3,450,221, 6-17-69, Cl. 180-22.
Nelson, Susan Jane: *See—*
Nelson, Robert L.; and Nelson, Susan Jane,3,486,739.
Nelson, Theodore M.: *See—*
Goldie, Harry; and Nelson, Theodore M.,3,467,883.
Nelson, Thomas F., to General Electric Company. Head supporting and sealing means for hair treating apparatus. 3,474,794, 10-28-69, Cl. 132-9.
Nelson, Vern Eldon, deceased0 (by Nelson, Gladys, administratrix). Tow-type sectional automatically foldable harrow cart. 3,428,333, 2-18-69, Cl. 280-411.
Nelson, Victor R. Material transferring apparatus. 3,446,368, 5-27-69, Cl. 214-6.
Nelson, Wallace J., to United States of America, National Aeronautics and Space Administration. Slosh alleviator. 3,426,791, 2-11-69, Cl. 137-582.
Nelson, Wilfred W. Prefabricated radiation safe window adjustable for mounting in biological shields of different thickness. 3,433,957, 3-18-69, Cl. 250-108.
Nelson, William D.: *See—*
Droege, Thomas F.; and Nelson, William D.,3,467,820.
Nelson, William M., to Phillips Petroleum Company. Producing plastic film. 3,468,995, 9-23-69, Cl. 264-95.
Nelson, William T.; and Johnson, Marvin M., to Phillips Petroleum Company. Removal of contaminants from unsaturated hydrocarbon-containing mixtures. 3,459,824, 8-5-69, Cl. 260-681.5
Nelsons Silk Limited: *See—*
Jackson, Francis E., 3,468,113.
Jackson, Francis E., 3,468,114.
Redfarn, Cyril Aubrey, 3,471,318.
Nelsson, Nels, to United States Gypsum Company. Ventilating partition construction. 3,444,800, 5-20-69, Cl. 98-40.
Nelsson, Nels, to United States Gypsum Company. Sound control partition with resilient support studs. 3,445,975, 5-27-69, Cl. 52-346.
Nemec, Jindrich; Kaspar, Jan; and Soudek, Josef, to Vyzkumny ustav Organickych syntex. Method of continuous dynamic filtration and an apparatus for carrying out the same. 3,477,575, 11-11-69, Cl. 210-67.
Nemec, John B. Portable tool stabilizer. 3,461,976, 8-19-69, Cl. 173-163.
Nemec, Joseph W.; and Schlaefer, Francis W., to Rohm & Haas Company. Method for the preparation of acrolein. 3,441,613, 4-29-69, Cl. 260-604.
Nemeth, Emery: *See—*
Cozzarin, Edward; Nemeth, Emery; and Paul, William T.,3,469,468.
Nemeth, Henry: *See—*
Cooper, Julius; and Nemeth, Henry,3,454,278.
Nemeth, Otto R., to GAF Corporation, mesne. Motion picture projector. 3,439,981, 4-22-69, Cl. 352-191.
Nemetz, Willi: *See—*
Schucker, Josef; Glos, Franz; and Nemetz, Willi,3,445,373.
Nemitz, Paul, to Atlas-Mak Maschinenbau GmbH. Device for the deformation of sheet metal plates by means of shock waves. 3,451,238, 6-24-69, Cl. 72-56.
Nemo Corporation: *See—*
Harrison, Robert R., 3,475,911.
Nemo Industries, Inc.: *See—*
Elsas, Norman E.; and Bryan, Thomas M., II, 3,460,212.
Nemphos, Speros P.: *See—*
Aliberti, Vincent A.; and Nemphos, Speros P.,3,444,270.
Nemphos, Speros P.; and Jastrzebski, Michael B., to Monsanto Company. Process for producing graft copolymer compositions containing a varying range of graft ratios. 3,475,514, 10-28-69, Cl. 260-876.

Nentwig, Joachim: *See—*
Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, HansiJoachim; Bornefeld, Horst; and Deissmann, Walter,3,451,835.
Nentwig, Joachim; Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebauer, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Binding agent systems containing polymeric trimethylene oxide derivatives with polyether side chains as lacquer adjuvants. 3,437,616, 4-8-69, Cl. 260-22.
Neo-Tec, Societe d'Etude et d'Application des Techniques Nouvelles:*See—*
Honore, Etienne Augustin Henri; and Torcheux, Emile Leon, 3,452,357.
Neoweld Electric Inc.: *See—*
Buerkel, David H., 3,452,211.
Nepela, Daniel A.: *See—*
Knight, Robert D.; and Nepela, Daniel A.,3,427,949.
Nepera Chemical Co., Inc.: *See—*
Hyden, Seymour; Scarano, Louis; and Wilbert, Godfrey, 3,433,795.
Hyden, Seymour; Wetstein, Henry; and Wilbert, Godfrey, 3,466,294.
Wilbert, Godfrey; Hyden, Seymour; and Wetstein, Henry, 3,438,993.
Nepozitek, Ladislav: *See—*
Cerman, Josef; Louda, Zdenek; Nepozitek, Ladislav; and Zak, Erantisek,3,486,573.
Neptune Meter Company: *See—*
Barber, Ronald B., 3,430,537.
Barber, Ronald B., 3,434,345.
Southall, Kenneth, 3,442,126.
Neptune Microfloc, Incorporated: *See—*
Culp, Gordon L.; Schilling, Robert D.; Hansen, Sigurd P.; and Botsford, Charles W., 3,425,936.
Culp, Gordon L.; Hansen, Sigurd P.; and Stukenberg, John R., 3,472,764.
Hansen, Sigurd P.; Botsford, Charles W.; Rice, Archie H.; and Conley, Walter R., Jr., 3,482,695.
Rice, Archie H.; Culp, Gordon L.; Conley, Walter R., Jr.; and Hansen, Sigurd P., 3,482,694.
Nerem, Marvin E., to Winnebago Industries, Inc. Corner assembly. 3,440,790, 4-29-69, Cl. 52-631.
Nerenberg, Robert W.; and Reynolds, Richard P. W., to Interstate Folding Box Company, The. Sterilizable containers. 3,478,868, 11-18-69, Cl. 206-46.
Nerenberg, Robert W.; and Shiverdecker, James H., to Bergstein Packaging Trust, mesne. Flap folding means for packaging apparatus. 3,451,194, 6-24-69, Cl. 53-374.
Neri, Amleto; and Capitanio, Lorenzo, to Swiss Aluminium Ltd. Process of producing thermoplastic prepolymers from allyl esters of polybasic acids. 3,474,127, 10-21-69, Cl. 260-475.
Neri, Rudolph, to Schering Corporation. Method of treating benign prostatic hypertrophy. 3,423,507, 1-21-69, Cl. 424-243.
Neri, Vincenzo, to Phil-X. Dental X-ray film pack having an independent developer means therein. 3,430,042, 2-25-69, Cl. 250-65.
Nerlich, Rolf: *See—*
Otto, Frei; and Nerlich, Rolf,3,474,588.
Nerlick, Lydia, curatrix: *See—*
Erdmann, Kurt; Nerlick, Lydia, curatrix; Fischer, Claus; Friedenrich, Heinrich; and Bauer, Helmut,3,481,255.
Nerod, Irving, to American Can Company. Method and apparatus for forming bails. 3,441,065, 4-29-69, Cl. 140-75.
Neros, Clifford A.; and Tomba, Charles P., to Diamond Shamrock Corporation. Stabilization of polyvinyl fluoride. 3,429,844, 2-25-69, Cl. 260-29.1
Neros, Clifford A.; and Tomba, Charles P., to Diamond Shamrock Corporation. Stabilization of polyvinyl fluoride. 3,454,517, 7-8-69, Cl. 260-30.4
Nersasian, Arthur, to Du Pont de Nemours, E. I., and Company. Redox catalyst system for preparing vinylidene fluoride interpolymers. 3,467,636, 9-16-69, Cl. 260-80.77
Nershi, George Thomas: *See—*
Shenker, Marvin; La Russa, Joseph; and Nershi, George Thomas,3,432,219.
Nervik, John M.: *See—*
Goeller, Leopold F., Jr.; and Nervik, John M.,3,431,368.
Nerwin, Henry N., Jr.; and Flaherty, John J., to Magnaflux Corporation. Apparatus display system for providing plural indications and threshold indications. 3,475,681, 10-28-69, Cl. 324-37.
Nerwin, Henry Norman, Jr.; Leadbeter, Willard S.; and Hilten, John S., to United States of America, Army. Battery. 3,445,289, 5-20-69, Cl. 136-83.
Nerwin, Hubert, to Eastman Kodak Company. Coded film magazine. 3,422,740, 1-21-69, Cl. 95-31.
Nerwin, Hubert, to Eastman Kodak Company. Film cartridge code arrangement. 3,444,795, 5-20-69, Cl. 95-31.
Nerwin, Hubert, to Eastman Kodak Company. Focus compensating mechanism for single frame projection. 3,447,867, 6-3-6, Cl. 352-140.
Nerwin, Hubert, to Eastman Kodak Company. Slide projector for corner pivot slide mounts. 3,476,474, 11-4-69, Cl. 353-108.
Nerwin, Hubert, to Eastman Kodak Company. Automatic film advancing and rewinding system. 3,479,940, 11-25-69, Cl. 95-31.
Nerwin, Hubert, to Eastman Kodak Company. Coded roll film magazine and code responsive camera mechanisms. 3,485,157, 12-23-69, Cl. 95-31.
Nerwin, Hubert; and Eagle, John H., to Eastman Kodak Company. Strip material magazines and method of producing same. 3,482,681, 12-9-69, Cl. 206-46.
Nerz, Joseph E.: *See—*
Draving, Walter J.; and Nerz, Joseph E.,3,450,359.
Nesbitt, Ethan A.: *See—*
Geller, Seymour; and Nesbitt, Ethan A.,3,444,084.
Nesbitt, Harvey C. Oil dipstick illuminators. 3,448,332, 6-3-69, Cl. 315-77.
Nesbitt, John D., to Midland-Ross Corporation. All-metal high capacity burner. 3,463,467, 8-26-69, Cl. 263-19.
Nesbitt, Loyd B.: *See—*
Buchhold, Theodor A.; Nesbitt, Loyd B.; and Schoch, Karl F.,3,429,368.
Nesbitt, Stephen J.: *See—*
Knapp, Edward M.; and Nesbitt, Stephen J.,3,442,625.
Nescio, John J.: *See—*
Robinson, Charles A.; and Nescio, John J.,3,478,018.
Nesher, Alexander G. Ventilation device for producing laminar flow. 3,426,512, 2-11-69, Cl. 55-410.
Nesin, William Z. Mixing and codispensing aerosol valve for hot shaving lather and other preparations. 3,472,426, 10-14-69, Cl. 222-146.
Ness, Anders B.; and Noah, Edward L., to Research Corporation. Prothrombin timer apparatus and method. 3,440,866, 4-29-69, Cl. 73-64.1
Ness, Irving S., to Johnson & Johnson. Method of making a bonded poriferous non-woven textile fabric. 3,485,695, 12-23-69, Cl. 156-229.
Ness, Juliea M. Sliding door lock. 3,471,189, 10-7-69, Cl. 292-266.
Ness, Norman Morin; Palluel, Auguste Louis Lucien; and Cook, Clive Douglas, to Imperial Chemical Industries Limited. Electrodeposition of paint using formaldehyde to control pH. 3,434,951, 3-25-69, Cl. 204-181.
Ness, Warren C.: *See—*
Ness, Warren C.; and Rule, Robert D., 3,472,374.
Ness, Warren C.; and Rule, Robert D., to Ness, Warren C. Article conveying apparatus with reject sensing means. 3,472,374, 10-14-69, Cl. 209-73.
Ness, Warren C.: *See—*
Rule, Robert D.; and Ness, Warren C.,3,470,733.
Nesse, Kare, to Nesseplast-Kare E. Nesse. Transport case of an expanded artificial material. 3,447,716, 6-3-69, Cl. 220-97.
Nesseplast-Kare E. Nesse: *See—*
Nesse, Kare, 3,447,716.
Nessim, David J.: *See—*
Peters, Harry L.; Nessim, David J.; Morrow, James J.; and Hilton, Garrett H., Jr.,3,471,391.
Nesslinger, Fritz J.; and Borgman, Arthur C. Material handling apparatus. 3,422,976, 1-21-69, Cl. 214-622.
Nest, Inc.: *See—*
Earle, Henry L., 3,458,025.
Nest-A-Pal Corporation: *See—*
Heffernan, Joseph E., 3,428,003.
Heffernan, Joseph E., 3,470,832.
Nestell, Donald E.: *See—*
Turner, George L.; Johnson, Gerould A.; Disbrow, Richard A.; and Nestell, Donald E.,3,432,102.
Nesteroff, Wladimir; Lancelot, Yves; and David, Bernard, to Centre National de la Recherche Scientifique. Solid material sample particularly for underwater soil sampling. 3,429,388, 2-25-69, Cl. 175-245.
Nestler, Albert, A.G.: *See—*
Leschinger, Franz, 3,441,322.
Nestler, Gilbert C.: *See—*
Kinzler, Raymond C.; and Nestler, Gilbert C.,3,480,514.
Nestler, Paolo: *See—*
Reitz, Edgar; and Nestler, Paolo,3,480,346.
Nestler, Wolfgang, to Siemens Aktiengesellschaft. Indirectly heated dispenser cathode for electrical discharge tubes. 3,454,815, 7-8-69, Cl. 313-346.
Nestler, Wolfgang; and Kallenbach, Eberhard, to VEB Magdeburger Armaturenwerke 'Karl Marx'. Circuit arrangement for two-stage energization of load. 3,461,375, 8-12-69, Cl. 321-43.
Nestlerode, William A., Sr., to Ball Brothers Research Corporation. Wire positioning and protective device. 3,434,682, 3-25-69, Cl. 248-68.
Nestor, James F., to Du Pont de Nemours, E. I., and Company. Fuel cell and process using molybdenum oxide and tungsten disulfide catalyst. 3,480,479, 11-25-69, Cl. 136-86.
Nestrock, Fred Leonard, to Union Manufacturing Company. Cryosurgical probe. 3,421,508, 1-14-69, Cl. 128-303.1

Nesvizhsky, Jury Borisovich; Pavlov, Sergei Vasilievich; and Boronichev, Gennady Konstantinovich. Magnet-controlled ferrovariometer. 3,425,013, 1-28-69, Cl. 335-296.
Netherlands Tool Manufacturing Co.: *See*—
Ter Horst, Roelof Jan Willem, 3,469,643.
Netherstreet, Jack H.: *See*—
Tilney, Richard; Netherstreet, Jack H.; Mangnall, Derek; and Jones, Samuel H.,3,486,483.
Netherwood, Paul H.: *See*—
Cormier, George E.; and Netherwood, Paul H.,3,431,473.
Netkin, Bernard: *See*—
Heyman, Louis; Netkin, Bernard; and Butvinik, David,3,467,107.
Nettekoven, William F., to Minnesota Mining and Manufacturing Company. Storage rack. 3,471,030, 10-7-69, Cl. 211-40.
Nettekoven, William F.: *See*—
Harnish, Wayne O.; and Nettekoven, William F.,3,462,206.
Nettel, Frederick. Peak output production in steam turbine plants. 3,448,580, 6-10-69, Cl. 60-67.
Nettel, Frederick. Large steam power plant suitable for handling peak loads. 3,448,581, 6-10-69, Cl. 60-67.
Netti, Anthony: *See*—
Howes, Irving C.; Anderson, Little A., Jr.; and Netti, Anthony,3,460,204.
Netting, David I.: *See*—
Weldes, Helmut Hans Wilhelm; and Netting, David I.,3,453,122.
Nettleman, John B., to Cowan Pressroom Products, Inc. Cover assembly for impression cylinder of printing equipment. 3,430,560, 3-4-69, Cl. 101-407.
Nettles, Henry D. Free piston paraffin scraper. 3,456,727, 7-22-69, Cl. 166-170.
Netusil, William F.; and Proffit, Robert L., to United States of America, Air Force. Rocket engine gas sampling system. 3,436,966, 4-8-69, Cl. 73-421.5
Network Research & Mfg., Corporation: *See*—
Meyerle, George M., 3,485,227.
Netz, Otto: *See*—
Corte, Herbert; Netz, Otto; and Heller, Harold,3,425,990.
Netzel, Philip C.; and Stewart, William E., to General Electric Company. Jackscrew type racking mechanism for drawout switchgear. 3,440,371, 4-22-69, Cl. 200-50.
Neu, Hermann: *See*—
Hornig, Lothar; and Neu, Hermann,3,448,147.
Hornig, Lothar; and Neu, Hermann,3,461,158.
Neu, Wallace I. Tire deflation indication system. 3,462,734, 8-19-69, Cl. 340-58.
Neubarth, William R., 1/3 to Gray, Elway P., and 1/3 to Whitmore, Joseph B. Device for forming parts such as gears and splines. 3,461,614, 8-19-69, Cl. 51-52.
Neubauer, Dieter: *See*—
Von Kutepow, Nikolaus; Bittler, Knut; and Neubauer, Dieter,3,437,676.
Von Kutepow, Nikolaus; Bittler, Knut; Neubauer, Dieter; and Reis, Hermann,3,455,989.
Neubaum, Victor A., to Bethlehem Steel Corporation, mesne. Immersion quenching apparatus. 3,431,180, 3-4-69, Cl. 202-227.
Neubeck, Rudy. Golf game device having hole closure means. 3,458,195, 7-29-69, Cl. 273-87.4
Neuber, Ralph E., to Sylvania Electric Products, Inc. Hermaphroditic multi-contact reed switch. 3,471,813, 10-7-69, Cl. 335-152.
Neubert, Gerhard: *See*—
Schmidt, Karl; and Neubert, Gerhard,3,458,480.
Neubold, Kurt: *See*—
Ernst, Otto; Neubold, Kurt; Ibing, Guenther; and Kugler, Fritz,3,470,132.
Neuendorf, Charles A. Conical and navigation radar scan simulator for testing electronic countermeasures system. 3,452,353, 6-24-69, Cl. 343--017, 7
Neuendorf, Charles A. Expanded conical and navigational scan simulator. 3,452,354, 6-24-69, Cl. 343-17.7
Neuendorf, Charles A.; and Black, Donald, to United States of America, Air Force. Airborne interceptor radar testing system. 3,440,654, 4-22-69, Cl. 343-17.7
Neuenschwander, Ernst. Production of particulate, non-pyrophoric metals and product. 3,475,158, 10-28-69, Cl. 75-0.5
Neuenschwander, Ernst, to Starck, Hermann C., mesne. Production of particulate, non-pyrophoric metals. 3,480,426, 11-25-69, Cl.
Neuenschwander, Ernst; Schuett, Klaus; and Scheller, Walter, to Ciba Limited. Process for the preparation of finely divided, non-pyrophoric nitrides of zirconium, hafnium, niobium, and tantalum. 3,429,661, 2-25-69, Cl. 23-191.
Neuenschwander, Karl A.: *See*—
Eggenberger, Ulrich; and Neuenschwander, Karl A.,3,433,290.
Neufeld, Edwin C., Jr., to Lockwood Corporation. Potato seed cutter apparatus. 3,439,720, 4-22-69, Cl. 146-57.
Neufeld, Frederick R.; and Prater, Merle P., to International Business Machines Corporation. Method of concurrently producing visible and magnetizable indicia. 3,484,318, 12-16-69, Cl. 156-220.
Neufeldt, Isaac. Vapourizing burner for pressurized liquid fuels. 3,439,993, 4-22-69, Cl. 431-243.
Neugebauer, Constantine A., to General Electric Company. Method of forming a superconducting metallic film. 3,436,256, 4-1-69, Cl. 117-213.
Neugebauer, Constantine A., to General Electric Company. Metho0d of forming a superconducting metallic film. 3,481,778, 12-2-69, Cl. 117-213.
Neugebauer, Constantine A.; Rairden, John R., III; and Joynson, Reuben E., Jr., to General Electric Company. Method of forming an insulated ground plane for a cryogenic device. 3,436,258, 4-1-69, Cl. 117-217.
Neugebauer, Hans E. J., to Xerox Corporation. Information storage and retrieval employing thermal perforation of the record member. 3,483,777, 12-16-69, Cl. 83-16.
Neugebauer, Walter: *See*—
Biegler, Hanns; Neugebauer, Walter; and Kempers, Herbert,3,423,184.
Neugebauer, Walter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of extremely finely divided inorganic mixtures, particularly those containing silicon dioxide. 3,434,977, 3-25-69, Cl. 252-454.
Neuhaus, Hermann Friedrich, to Hermann Wiederhold, Firma. Covers for tips and filters of tobacco products. 3,460,959, 8-12-69, Cl. 117-9.
Neuhold, Hellfried: *See*—
Goldberger, Max; and Neuhold, Hellfried,3,427,841.
Neuman, Adeline S.: *See*—
Neuman, George E.,3,453,808.
Neuman, Arthur E.: *See*—
Ulstad, Meredith S.; and Neuman, Arthur E.,3,441,900.
Neuman, Bert: *See*—
Saraisky, Alfred B.; and Neuman, Bert,3,420,034.
Neuman, George E., deceased0 (by Neuman, Adeline S.; administratrix). Apparatus for removing particles from gases. 3,453,808, 7-8-69, Cl. 55-220.
Neuman, Herbert A., to Foxboro Company, The. Fluid logic diffusion unit assembly. 3,426,781, 2-11-69, Cl. 137-81.5
Neuman, Milton C.: *See*—
Bauer, Myron J.; Neuman, Milton C.; and Wiethoff, Roger H.,3,477,338.
Neuman, Milton C.; and Wiethoff, Roger H., to United States of America, Navy, mesne. Jettison mechanism for missile launcher system. 3,448,655, 6-10-69, Cl. 89-1.8
Neuman, Werner E., to Components Corporation. Adjustable inductor. 3,480,896, 11-25-69, Cl. 336-83.
Neumann, Charles G.: *See*—
Pryor, Harry H.; Kessler, Arthur R.; Blacklock, Arthur G.; Neumann, Charles G.; Short, William H.; and Modjeski, Richard N.,3,446,137.
Neumann, Charles W.: *See*—
Neumann, Meta N.; and Neumann, Charles W.,3,431,918.
Neumann, Donald F.; Blumenthal, John; Vance, Robert S.; and Dand, Edward C. Clevite Corporation Multichannel magnetic transducer head having full shields between channels. 3,453,610, 7-1-69, Cl. 340-174.1
Neumann, Fred W.: *See*—
Smith, William E.; and Neumann, Fred W.,3,466,337.
Neumann, Friedmund; and Wiechert, Rudolf, to Schering A.G.1,2α;16,17αΔ4,6-pregnadienes. 3,441,647, 4-29-69, Cl. 424-242.
Neumann, Friedmund: *See*—
Engelfried, Otto; Lehmann, Hans-Gunter; Neumann, Friedmund; and Wiechert, Rudolf,3,444,295.
Hader, Josef; Neumann, Friedmund; and Wiechert, Rudolf,3,439,093.
Schmidt, Otfried; Wiechert, Rudolf; and Neumann, Friedmund,3,469,008.
Wiechert, Rudolf; and Neumann, Friedmund,3,466,371.
Neumann, Hans K.: *See*—
Goldstone, Edward G.; and Neumann, Hans K.,3,429,728.
Goldstone, Edward G.; Neumann, Hans K.; and Olsen, John A.,3,446,685.
Neumann, Heinz: *See*—
Horner, Leopold; and Neumann, Heinz,3,434,944.
Horner, Leopold; Neumann, Heinz; and Geiger, Rolf,3,431,186.
Neumann, Heinz. Method of producing crinkly corrugations in a sheet of synthetic plastic material. 3,484,839, 12-16-69, Cl. 264-282.
Neumann, Joachim, to Zeiss-Stiftung, Carl, d/b/a Zeiss, Carl. Device for a remote control adjustment of measuring tables or work tables. 3,485,090, 12-23-69, Cl. 73-81.
Neumann, Karl Josef, to Verwaltungsgesellschaft Moeller und Neumann Offene Handelsgesellschaft. Hydraulic adjusting means for rolling mills. 3,427,839, 2-18-69, Cl. 72-20.
Neumann, Karl Josef, to Verwaltungsgesellschaft Moeller und Neumann Offene Handelsgesellschaft. Apparatus for controlling the deflection of the rolls of a rolling mill. 3,461,705, 8-19-69, Cl. 72-243.

Neumann, Manfred E., to Allis-Chalmers Manufacturing Company. Static alternating current ciruit breaking device. 3,466,466, 9-9-69, Cl. 307-252.
Neumann, Meta N.; and Neumann, Charles W. Multiple cosmetic stick container. 3,431,918, 3-11-69, Cl. 132-79.
Neumann, Norbert F., to Kennecott Sales Corporation. Continuous casting. 3,421,569, 1-14-69, Cl. 164-86.
Neumann, Robert P.: *See—*
Conn, Charles E., Jr.; and Neumann, Robert P.,3,444,608.
Neumann, Wilhelm Paul, to Studiengesellschaft Kohle m.b.H. Process for the production of alkyltin trihalides. 3,459,779, 8-5-69, Cl. 260-429.7
Neumayr, Franz: *See—*
Friz, Hans; Neumayr, Franz; Reichert, Martin; Teltschik, Walter; and Wagner, Ulrich,3,452,114.
Neumeier, Guenther F.: *See—*
Jorgensen, Adam A.; Lee, Ernest O., Jr.; Neumeier, Guenther F.; and Schneider, Gerhard O. K.,3,485,956.
Pharis, William W.; and Neumeier, Guenther F.,3,456,081.
Neumeier, Robert E. Amphibious vehicle. 3,463,108, 8-26-69, Cl. 114-16.
Neumeister, Martin; and Mouissie, Bob, to Paillard S.A. Arrangement for the rewinding of a wound strip. 3,458,148, 7-29-69, Cl. 242-55.21
Neumeister, Warren F. Moving contact device for distributor mechanism. 3,485,967, 12-23-69, Cl. 200-19.
Neumeyer, John L.; and Incho, Harry H., to FMC Corporation. Compositions and methods employing insecticidal esters of chrysanthemumic acid. 3,485,916, 12-23-69, Cl. 424-186.
Neumond, Inc.: *See—*
Schulein, Benjamin M.; and Schulein, Benjamin M., Jr., 3,425,397.
Neundorf, Maynette V.: *See—*
Crovetti, Aldo J.; and Neundorf, Maynette V.,3,457,294.
Neuner, Otto: *See—*
Dorlars, Alfons; and Neuner, Otto,3,449,333.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf,3,453,268.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf,3,459,744.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf,3,485,831.
Neunkirchen, Max, to Winkler, Richard, and Dunnebier, Kurt. Apparatus for applying window material to window cutouts in the manufacture of window envelopes and the like. 3,435,739, 4-1-69, Cl. 93-61.
Neurath, Georg; Kopsch, Reiner; and Raban, Joachim. Cigarette filters. 3,424,172, 1-28-69, Cl. 131-267.
Neuroth, Charles G., to Stauffer Chemical Company. Paper release composition. 3,436,252, 4-1-69, Cl. 117-155.
Neuroth, Norbert; and Warnach, Klaus, to Jenaer Glaswerk Schott & Gen. Method of hot pressing LiF. 3,465,074, 9-2-69, Cl. 264-125.
Neuscheler, Friedrich: *See—*
Hoffmann, Wolfgang; Neuscheler, Friedrich; and Schuon, Eberhard,3,474,356.
Neuschotz, Robert. Self-aligning threaded fastener stud. 3,421,564, 1-14-69, Cl. 151-23.
Neuschotz, Robert. Threaded fastener with deformable anchoring portion. 3,431,960, 3-11-69, Cl. 151-41.72
Neuschotz, Robert. Lock key fastener utilizing axially deformed thread as stop shoulder. 3,435,870, 4-1-69, Cl. 151-22.
Neuschotz, Robert. Method of forming locking keys for threaded elements. 3,447,356, 6-3-69, Cl. 72-377.
Neuschotz, Robert. Honeycomb structures containing threaded inserts. 3,451,181, 6-24-69, Cl. 52-617.
Neuschotz, Robert. Insert having removable liner. 3,468,358, 9-23-69, Cl. 151-8.
Neuschotz, Robert. Tool for installing threaded parts, and related methods. 3,481,022, 12-2-69, Cl. 29-456.
Neuse, Eberhard W., to McDonnell Douglas Corporation. Reactive ferrocene polymers. 3,437,634, 4-8-69, Cl. 260-47.
Neuse, Eberhard W.; and Koda, Kazuko, to McDonnell Douglas Corporation, mesne. Solution polymerization. 3,437,644, 4-8-69, Cl. 260-80.
Neusel, Robert H., to TRW Inc. Electrostatic gas by-pass for ion lasers with hot cathodes. 3,466,567, 9-9-69, Cl. 331-94.5
Neusel, Robert H., to TRW Inc. Pulsed laser. 3,470,494, 9-30-69, Cl. 331-94.5
Neuser, Gerald L.: *See—*
Bauer, Clifford D.; Neuser, Gerald L.; and Pinkalla, Hamilton A.,3,483,004.
Neuss, William H.: *See—*
Britton, Richard K.; Christopher, John P.; Vegella, John S.; and Neuss, William H.,3,484,338.
Neustadter, Arnold; and Neilsen, Hildaul L. Paper centering device for a paper punch. 3,474,694, 10-28-69, Cl. 83-449.
Neustadter, Arnold; and Neilsen, Hildaur L. Paper centering means for paper punch rectangular or square bags or containers into a. 3,485,130, 12-23-69, Cl.
Neuville, Jean: *See—*
Baillcul-Langlais, Josette; Neuville, Jean; and Veilex, Robert,3,446,422.
Neuvy, Liliane: *See—*
Szarvasi, Etienne; and Neuvy, Liliane,3,445,574.
Neuzil, Richard W.: *See—*
Quesada, Camilo; and Neuzil, Richard W.,3,437,428.
Nevai, Bela B., to Nevco Wood Products Co., Inc. Support structure. 3,464,565, 9-2-69, Cl. 211-42.
Nevala, Lloyd A.: *See—*
Jewell, Wendell D.; Nevala, Lloyd A.; and Korn, Frederick,3,434,352.
Nevarez Ocampo, Ricardo J., to Technical Investment Corporation. Mold for forming monolithic concrete cylindrical building. 3,436,052, 4-1-69, Cl. 249-27.
Nevco Wood Products Co., Inc.: *See—*
Nevai, Bela B., 3,464,565.
Nevill, James Irving: *See—*
Horwood, Norman; Gray, Alexander; and Nevill, James Irving,3,442,133.
Neville Chemical Company: *See—*
Dereich, John E., 3,468,835.
Henderson, Albert J.; Patterson, James R.; and Hahn, Raymond A., 3,422,053.
Wheeler, Harvey B.; and D'Amico, Eugene P., 3,468,837.
Wheeler, Harvey B., 3,478,005.
Neville, Dee J., to Telautograph Corporation. Telescribing apparatus. 3,453,388, 7-1-69, Cl. 178-18.
Neville, James R.; and Ikels, Kenneth G. Gas analysis apparatus. 3,451,255, 6-24-69, Cl. 73-23.1
Nevin, Charles S.: *See—*
Roth, Claris D.; Short, Robert G.; and Nevin, Charles S.,3,449,318.
Nevin, John J.; and Dumire, Leo G. Apparatus for making coaxial cable. 3,461,499, 8-19-69, Cl. 18-13.
Nevins, Michael J., to National Lead Company. Molding sand. 3,445,251, 5-20-69, Cl. 106-38.3
Nevison, Ronald Arthur: *See—*
Burn, Patrick Marion; and Nevison, Ronald Arthur,3,477,529.
Nevitt, John, to Granny Goose Foods, Inc. Package conveyor and accumulator. 3,485,359, 12-23-69, Cl. 209-99.
Nevitt Manufacturing Company, Inc.: *See—*
Nevitt, Tom W., Sr., 3,472,135.
Nevitt, Tom W., Sr., to Nevitt Manufacturing Company, Inc. Earth compacting apparatus. 3,472,135, 10-14-69, Cl. 94-49.
Nevo-Hacohen, Jacob I., to Computerized Volumetric Conveyance Systems, Inc. Conveyor elevator apparatus. 3,447,666, 6-3-69, Cl. 198-158.
New American Co., Inc.: *See—*
Sorenson, Bill W., 3,451,361.
New Britain Machine Company, The: *See—*
Gerwalt, Ulrich, 3,430,294.
Meinke, Wilbur E., 3,455,207.
Meinke, Wilbur E., 3,455,610.
New Brunswick Research and Productivity Council, The: *See—*
Nash, John E.; Medenblik, Henri J.; Thomas, Lyndon A.; and Wilstead, Graham H., 3,438,201.
New Brunswick Scientific Co., Inc.: *See—*
Freedman, David; and Liobis, Vytautas A., 3,430,926.
Freedman, David; and Liobis, Vytautas A., 3,445,341.
Freedman, David, 3,445,342.
New Castle Products, Inc.: *See—*
Carlo, Kenneth J., 3,425,173.
Harris, Donald S., 3,453,790.
New England Lock and Hardware Co., The: *See—*
Hines, John, 3,435,644.
New England Realty Co.: *See—*
Croft, John C., 3,459,229.
Croft, John C., 3,467,143.
Hallwood, Harry, 3,426,341.
New Frontier Corporation: *See—*
Imhoff, Lee A., 3,435,907.
New, Harry E.; and Green, Dick R., to Dow Chemical Company, The. Yarn of reduced liveliness and pile carpet thereof. 3,470,836, 10-7-69, Cl. 112-410.
New Holland Concrete Products, Inc.: *See—*
Witmer, Paul E., 3,428,192.
New Jersey Zinc Company, The: *See—*
Werley, George L., 3,429,696.
New Life Foundation: *See—*
Brown, Victor, 3,438,740.
New Linwood Pool Corporation: *See—*
Linton, Charles J., deceased; and Linton, Marilyn J.; executrix, 3,477,185.
New Nippon Electric Company Limited: *See—*
Ikeda, Yutaka; Hoshino, Mashiro; and Kuroki, Hayashi, 3,457,615.
Yoshikawa, Sadayoshi, 3,473,081.
New North Electric Company: *See—*
Aro, Enn, 3,458,658.
Bixby, William H., 3,435,331.
Bixby, William H., 3,447,062.
Sternung, Sven Y., 3,458,659.
Svala, Carl Gunnar, 3,448,221.

New Process Industries, Inc.: *See—*
Benson, Glendon M., 3,468,387.
New Research & Development Laboratories, Inc.: *See—*
Le Roy, Pierre L., 3,446,212.
New Rochelle Manufacturing Company: *See—*
Jacobs, Winston W., 3,427,746.
New, Truman L.; and Phelps, Joseph F., to Stratoflex, Inc. Hose fitting. 3,423,109, 1-21-69, Cl. 285-149.
New Ulm Manufacturing Company: *See—*
Iverson, Noel S., 3,435,546.
New, William; and Newcomb, Robert W., to Leland Stanford Junior University, the board of trustees of the. Non-reciprocal wave translating network. 3,478,226, 11-11-69, Cl. 307-229.
New York Air Brake Company, The: *See—*
Cary, Francis H.; Miner, Irving O.; and Szilagyi, Dezso, 3,442,489.
New York Central Railroad Company, The: *See—*
Herrick, Clifford C., 3,451,470.
Kerns, Max E., 3,420,186.
Kerns, Max E., 3,465,687.
New York Pressing Machinery Corporation: *See—*
Rappaport, Max, 3,464,130.
New York University: *See—*
Kallmann, Hartmut P., 3,484,752.
New York Wire Company: *See—*
Webber, Clarence Eugene; and Drescher, George William, 3,421,571.
New Zealand Government Property Corporation: *See—*
Rumsey, Norman J., 3,460,886.
Newall Engineering Company Limited, The: *See—*
Temple, Wilfred Keith, 3,440,771.
Temple, Wilfred Keith, 3,457,678.
Newallis, Peter E.; and Cheema, Zafarullah K., to Allied Chemical Corporation. Bicyclic amides having herbicidal properties. 3,469,966, 9-30-69, Cl. 71-118.
Newallis, Peter E.; and Lombardo, Pasquale, to Allied Chemical Corporation. Nitrile amide phosphates and phosphonates. 3,420,919, 1-7-69, Cl. 260-940.
Newallis, Peter E.; and Lombardo, Pasquale, to Allied Chemical Corporation. Alkenyl and alkynyl biphenylyl sulfides. 3,442,955, 5-6-69, Cl. 260-609.
Newallis, Peter E.; Otto, Julian A.; and Lombardo, Pasquale, to Allied Chemical Corporation. Novel fluorinated esters. 3,445,507, 5-20-69, Cl. 260-487.
Newallis, Peter E.; and Rumanowski, Edmund J., to Allied Chemical Corporation. Dinitrophenylpropanols having herbicidal properties. 3,444,244, 5-13-69, Cl. 260-613.
Newallis, Peter E.; and Rumanowski, Edmund J., to Allied Chemical Corporation. Fluorophenoxy alkyl nitriles. 3,467,692, 9-16-69, Cl. 260-465.
Newallis, Peter E.; and Spurlock, Langley A., to Allied Chemical Corporation. Phosphates and phosphonates of cyclic sulfones. 3,475,452, 10-28-69, Cl. 260-332.1
Newallis, Peter E.: *See—*
Largman, Theodore; and Newallis, Peter E.,3,470,296.
Neway Equipment Company: *See—*
Masser, Lloyd D., 3,482,854.
Masser, Lloyd D., 3,486,768.
Newaygo Engineering Company: *See—*
Murphy, Oscar V., 3,448,873.
Newberg, Billy R. Display device. 3,420,361, 1-7-69, Cl. 206-44.12
Newbern, St. Clair. Unicycle training attachment. 3,437,351, 4-8-69, Cl. 280-205.
Newberry, Samuel Alfred; and Brake, William Robert, to BTR Industries Limited. Resilient mountings. 3,437,301, 4-8-69, Cl. 248-358.
Newberry, Sterling P., to General Electric Company. Electron discharge device with arrangement for replenishing emissive material on a smooth cathode surface. 3,467,878, 9-16-69, Cl. 313-346.
Newbold, Geoffrey Tattersall: *See—*
Brooker, Peter John; Gillon, John; Newbold, Geoffrey Tattersall; and Saggers, David Thomas,3,422,198.
Newbold, Geoffrey Tattersall; and Percival, Albert, to Fisons Pest Control Limited. Substituted benzimidazole compounds. 3,472,866, 10-14-69, Cl. 260-309.2
Newbold, Geoffrey Tattersall; Walden, Saffron; and Percival, Albert, to Fisons Pest Control Limited. Pesticidally active 2-trifluoromethyl benzimidazoles. 3,430,259, 2-25-69, Cl. 260-309.2
Lane, David William John; and Newbold, Geoffrey Tattersall,3,453,365.
Newbold, Goffrey Tattersall; and Percival, Albert. Substituted benzimidazole compounds. 3,472,865, 10-14-69, Cl. 260-309.2
Newbold, William F., to Honeywell, Inc. Rebalancing voltmeter having voltage responsive error sensing means and means to buck out current drawn by an input impedance. 3,421,082, 1-7-69, Cl. 324-99.
Newbold, William F., to Honeywell Inc. Electrical apparatus. 3,443,235, 5-6-69, Cl. 330-9.
Newbold, William F.: *See—*
Miller, Ronald C.; and Newbold, William F.,3,439,648.
Newborough, Harry, to Plessey Company Limited, The. High-pressure gear pumps. 3,463,089, 8-26-69, Cl. 103-126.
Newby, Neal D.: *See—*
Gitten, Lawrence J.; and Newby, Neal D.,3,445,602.
Newby, William Edward; and Sands, Seymour, to Du Pont de Nemours, E. I., and Company. Process for dyeing fabric having polypropylene backing and polyamide pile yarns. 3,485,569, 12-23-69, Cl. 8-21.
Newcomb, Arthur L., Jr., to United States of America, National Aeronautics and Space Administration. Variable width pulse integrator. 3,448,290, 6-3-69, Cl. 307-234.
Newcomb, Arthur L., Jr.: *See—*
Hatcher, Norman M.; Groom, Nelson J.; and Newcomb, Arthur L., Jr.,3,437,394.
Newcomb, Charles E., to International Business Machines Corporation. Character positioning control. 3,423,749, 1-21-69, Cl. 340-324.
Newcomb, Douglas H.; and Nicholson, Charles B., to Broughton Corporation. Vacuum relief valve. 3,461,908, 8-19-69, Cl. 137-492.5
Newcomb, Douglas H.; and Nicholson, Charles B., Jr., to Broughton Corporation. Precision vacuum controller. 3,468,341, 9-23-69, Cl. 137-625.3
Newcomb Electronics Corporation: *See—*
Hawkins, William R., 3,477,030.
Ortiz, Raymond, 3,482,759.
Newcomb, Josiah T. Photographic camera and leveling means therefor. 3,453,943, 7-8-69, Cl. 95-11.
Newcomb, Robert W.: *See—*
New, William; and Newcomb, Robert W.,3,478,226.
Newcomb, Wallace K.; Blank, Charles E., Sr.; and Van Loon, Donald F., to Ingersoll-Rand Company. Metallic packing. 3,438,638, 4-15-69, Cl. 277-27.
Newcomb, William E., to Welsh Manufacturing Company. Universal stop pin for head protective equipment. 3,430,263, 3-4-69, Cl. 2-8.
Newcomb, William E., to Welsh Manufacturing Company. Cover unit for the window opening of a helmet or goggle. 3,440,661, 4-29-69, Cl. 2-14.
Newcombe, Clive A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,425,885.
Newcomer, Harry S. Multiple-prism light dispersing unit for monochromators. 3,428,391, 2-18-69, Cl. 350-287.
Newcomer, Harry S. Quadruply-dispersive monochromator light-dispersing system. 3,477,788, 11-11-69, Cl. 356-100.
Newcomer, Jack S., to Hooker Chemical Corporation. Process for preparing alkoxy- chlorinated benzoic acids. 3,444,192, 5-13-69, Cl. 260-521.
Newcomer, Jack S.; Weil, Edward D.; and Dorfman, Edwin, to Hooker Chemical Corporation. Control of vascular tree diseases with trichlorophenyl acetic acids. 3,458,640, 7-29-69, Cl. 424-317.
Newcor, Inc.: *See—*
Morley, John D., 3,475,580.
Newell, Alton S. Hammer mills. 3,482,788, 12-9-69, Cl. 241-69.
Newell, Alton S. Hammers for hammer mills. 3,482,789, 12-9-69, Cl. 241-195.
Newell Associates, Inc.: *See—*
Barnett, Don Carlos; and Ganske, Kingston E., 3,482,800.
Furst, Marcel; and Falk, Mervin L., 3,441,998.
Newell, Chester W., 3,487,175.
Newell, Chester W., to Newell Associates, Inc. Reversible tape transport with increased tape pressure at high rates of changes in speed. 3,487,175, 12-30-69, Cl. 179-100.1
Newell, George K., to Westinghouse Air Brake Company. Angle cock. 3,476,359, 11-4-69, Cl. 251-260.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Multiphase step motor control circuits including means for supplementing the normal energization of the windings. 3,444,447, 5-13-69, Cl. 318-138.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Step motor drive system including current feedback. 3,452,263, 6-24-69, Cl. 318-138.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Wobble drum step motor. 3,456,139, 7-15-69, Cl. 310-49.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Wobbling rotor step motor with stator coils and pole arrangement. 3,474,272, 10-21-69, Cl. 310-49.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Pulse programmers for step motors including removal and addition of pulses of the train feeding said motor. 3,475,667, 10-28-69, Cl. 318-138.
Newell, Jack: *See—*
Newell, Strohm; and Newell, Jack,3,482,481.
Newell, James T.: *See—*
Habermehl, Clark L.; and Newell, James T.,3,470,392.
Newell, Norvin E.: *See—*
Lemery, Raymond E.; and Newell, Norvin E.,3,457,811.
Newell, Robert H., to Commercial Solvents Corporation. Process for the production of glutamic acid. 3,429,776, 2-25-69, Cl. 195-29.

Newell, Sidney W. Removable stop for thrust bearing shoe. 3,436,133, 41-69, Cl. 308-166.
Newell, Strohm. Electric gauge. 3,474,540, 10-28-69, Cl. 33-174.
Newell, Strohm; and Newell, Jack. Bolt or nut head. 3,482,481, 12-9-69, Cl. 85-45.
Newey Goodman Limited: *See—*
Baker, Ernest C., 3,480,138.
Newey, Herbert A., to Shell Oil Company. N,N-Bis(2,3-epoxypropyl)trihaloanilines and compositions containing the same. 3,449,375, 6-10-69, Cl. 260-348.
Newey, Herbert A.: *See—*
De Acetis, William; and Newey, Herbert A.,3,448,112.
Mango, Frank D.; and Newey, Herbert A.,3,476,693.
Newfarmer, Leo R., to Shell Oil Company. Resonant vibratory driving of substantially horizontal pipe. 3,461,979, 8-19-69, Cl. 175-45.
Newhall, Edmunde E.: *See—*
Brown, James N., Jr.; and Newhall, Edmunde E.,3,457,553.
Newhall, Edmunde E., to Bell Telephone Laboratories, Incorporated. Magnetic core selection arrangement. 3,479,658, 11-18-69, Cl. 340-174.
Newhoff, Harry Robert, to Litton Systems, Inc. Crystal controlled transducer coupling circuit. 3,434,051, 3-18-69, Cl. 324-60.
Newhouse, Vernon L.; and Mundy, Joseph L., to General Electric Company. Multiaperture cryogenic storage cell. 3,480,920, 11-25-69, Cl. 340-173.1
Newill, William J., to General Motors Corporation. Induction motor speed sensing apparatus. 3,466,477, 9-9-69, Cl. 310-68.
Newing, Charles W., Jr., to Owens-Illinois Glass Company. Process for making luminescent organopolysiloxanes and compositions thereof. 3,427,273, 2-11-69, Cl. 260-30.4
Newing, Charles W., Jr., to Owens-Illinois, Inc. Method for preparing, without premature gelation, organopolysiloxane. 3,428,599, 2-18-69, Cl. 260-46.5
Newing, Charles W., Jr., to Owens-Illinois, Inc. Hard, machinable, transparent organopolysiloxane filters, their manufacture and use. 3,474,039, 10-21-69, Cl. 252-300.
Newins, Charles E.: *See—*
Dabney, Eugene E.; Fields, James R.; Gerber, Loris L.; and Newins, Charles E.,3,456,918.
Newkirk, Arthur E., to General Electric Company. Electrophoretic deposition of boron. 3,481,852, 12-2-69, Cl. 204-181.
Newkirk, Terry F.: *See—*
Poirier, Armand R.; and Newkirk, Terry F.,3,422,371.
Newland, Albert J., to Bendix Corporation, The. Electronic channel cut-off means. 3,441,809, 4-29-69, Cl. 317-137.
Newland, Albert J., to Bendix Corporation, The. Multiple channel cut-off means. 3,469,151, 9-23-69, Cl. 317-136.
Newland, Findlay E.: *See—*
Bruhn, Richard A.; and Newland, Findlay E.,3,430,907.
Newland, Gordon C., to Eastman Kodak Company. Stabilized polyolefins. 3,464,953, 9-2-69, Cl. 260-45.75
Newland, Gordon C., to Eastman Kodak Company. Azo modifier containing phototropic compositions. 3,485,765, 12-23-69, Cl. 252-300.
Newland, Gordon C.; Greear, George R.; and Tamblyn, John W., to Eastman Kodak Company. Polyolefin compositions and degradable films made therefrom. 3,454,510, 7-8-69, Cl. 260-23.
Newland, Gordon C.; and Tamblyn, John W., to Eastman Kodak Company. Stabilizing polyolefins with certain nickel and hydroxybenzotriazole compounds. 3,464,943, 9-2-69, Cl. 260-23.
Newland, Gordon C.: *See—*
Harris, Raymond C.; and Newland, Gordon C.,3,440,209.
Newland, Gordon Clay, to Eastman Kodak Company. Phenylazophenyl compounds containing heterocyclic dicarboxylic acid imide groups. 3,454,550, 7-8-69, Cl. 260-152.
Newland, Henry Alan. Display device. 3,484,969, 12-23-69, Cl. 40-65.
Newland, James E.; and Morton, Robert C., to California Computer Products, Inc. Display system and methods. 3,461,365, 8-12-69, Cl. 318-18.
Newman & Guardia Limited: *See—*
Hall, Henry J.; and Rodda, Arthur E., 3,473,874.
Newman, Albert L. Templet. 3,483,628, 12-16-69, Cl. 33-174.
Newman, Albert P., to Empire Products, Inc. Cable insulation retainer. 3,486,165, 12-23-69, Cl. 339-223.
Newman, Barney: *See—*
Newman, Samuel, 3,433,316.
Newman, Benjamin: *See—*
Hanford william E.; and Newman, Benjamin,3,446,893.
Newman, Charles J., to Grote Manufacturing Company, Inc., The. Armored side marker lamp. 3,445,645, 5-20-69, Cl. 240-8.2
Newman, Charles J.; and Brosene, William G., Jr., to Grote Manufacturing Company, Inc., The. Cabinet installation with mirror lock. 3,462,207, 8-19-69, Cl. 312-245.
Newman, Charles J.; and Grote, Walter F., to Grote Manufacturing Company, Inc., The. Knock-down cabinet with integrally hinged panels. 3,485,545, 12-23-69, Cl. 312-258.
Newman, Daniel J., to Chemical Construction Corporation. Elimination of nitrogen oxides from gas streams. 3,467,492, 9-16-69, Cl. 23-2.
Newman, Daniel J.; and Klein, Louis A., to Chemical Construction Corporation. Apparatus for exothermic catalytic reactions. 3,443,910, 5-13-69, Cl. 23-288.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Thermographic duplicating process. 3,436,293, 4-1-69, Cl. 156-240.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Pressure-sensitive transfer elements and processes. 3,442,680, 5-6-69, Cl. 117-36.4
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Transfer element containing infrared radiation absorbing material. 3,446,662, 5-27-69, Cl. 117-361.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Heat-sensitive planographic printing plates and processes. 3,452,676, 7-1-69, Cl. 101-462.
Newman, Douglas A., to Columbia Ribbon and Carbon Manfacturing Co., Inc. Heat sensitive transfer sheet having screen layer and method of making. 3,458,335, 7-29-69, Cl. 117-15.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Pressure sensitive transfer sheet having screen layer and method of making. 3,458,336, 7-29-69, Cl. 117-15.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Transfer sheets for duplicating. 3,458,339, 7-29-69, Cl. 117-36.4
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Process of producing pressure-sensitive hectograph transfer sheets. 3,459,581, 8-5-69, Cl. 117-36.1
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Transfer elements and process for preparing the same. 3,471,360, 10-7-69, Cl. 161-227.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Novel transfer media and method of preparing same. 3,484,268, 12-16-69, Cl. 117-36.1
Newman, Douglas A.; and Schlotzhauer, Allan T., to Columbia Ribbon and Carbon Manufactruing Co., Inc. Transfer elements and method of making same. 3,442,681, 5-6-69, Cl. 117-36.4
Newman, Douglas A.; and Schlotzhauer, Allant T., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Transfer elements and method of making same. 3,481,761, 12-2-69, Cl. 117-36.4
Newman, Douglas A.; and Trecker, William E., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Planographic printing plates and methods for preparing the same. 3,472,162, 10-14-69, Cl. 101-460.
Newman, Douglas A.; and Trecker, William E., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Planographic printing plates and methods for preparing the same. 3,472,164, 10-14-69, Cl. 101-460.
Newman, Douglas A.: *See—*
Schlotzhauer, Allan T.; Newman, Douglas A.; and Platz, Warren W.,3,467,539.
Newman, Harry B.; and Walker, George W., to Caterpillar Tractor Company. Fluid coupling fan drive. 3,483,852, 12-16-69, Cl. 123-41.12
Newman, Howard F.: *See—*
La Branche, Harvey W.; and Newman, Howard F.,3,483,654.
La Branche, Harvey W.; and Newman, Howard F.,3,484,986.
Newman, James B., Jr.: *See—*
Corbett, Herbert O.; Quackenbush, John J.; and Newman, James B., Jr.,3,454,447.
Newman, James L.: *See—*
Redwine, Fletcher H.; Newman, James L.; and Osborn, William F.,3,486,375.
Newman, Joel S.: *See—*
Young , Laurence R.; and Newman, Joel S.,3,473,868.
Newman, John B.: *See—*
Deskevich, Stephen; and Newman, John B.,3,462,411.
Newman, Joseph W. Harvesting machine. 3,468,110, 9-23-69, Cl. 56-328.
Newman, Julian, to Lummus Company, The. Process for the production of ethylene. 3,437,714, 4-8-69, Cl. 260-683.
Newman, Julian; Caspers, John; Gambro, John; and Freiling, Jerome G., to Lummus Company, The. Direct pyrolysis of non-condensed gas oil fraction. 3,487,006, 12-30-69, Cl. 208-93.
Newman, Julian; and Mencher, Simon, to Lummus Company, The. Ethylene and synthesis gas process. 3,475,510, 10-28-69, Cl. 260-683.
Newman, Marvin K., to Ajem Laboratories Inc. Precoat filter. 3,422,958, 1-21-69, Cl. 210-333.
Newman, Marvin K.; and Arnold, Orlan M., to Ajem Laboratories, Inc. Centrifugal separator. 3,439,810, 4-22-69, Cl. 210-512.
Newman, Melvin S.; and Karnes, Harold A., to Ohio State University, The Board of Trustees of the. O-thiocarbamoyl benzoic acid esters. 3,476,791, 11-4-69, Cl. 260-455.
Newman, Neil F.; and Wilsher, Rudolph S., to Esso Research and Engineering Company. Blends of ethylene-propylene rubber and atactic polypropylene. 3,456,038, 7-15-69, Cl. 260-878.

Newman, Nicholas B.; Foster, Kenneth W.; and Geer, Ronald L., to Shell Oil Company. Wellhead closure apparatus. 3,474,857, 10-28-69, Cl. 166-0.5
Newman, Nicholas S., to Kendall Company, The. Method of producing flocked nonwoven fabric. 3,459,579, 8-5-69, Cl. 117-33.
Newman, Peter Colin, to North American Philips Company, Inc. Semiconductor device comprising III-V epitaxial deposit on substitutional III-V substrate. 3,436,625, 4-1-69, Cl. 317-237.
Newman, Philip G., to Hercules Incorporated. Fuse type initiator and booster system containing same. 3,437,037, 4-8-69, Cl. 102-24.
Newman, Philip G., to Hercules Incorporated. Process and assembly for manufacture of cast boosters, and booster product. 3,437,038, 4-8-69, Cl. 102-24.
Newman, Ralph P., to Shipman, Lottie. Ice fishing apparatus. 3,481,064, 12-2-69, Cl. 43-4.
Newman, Robert W.: *See*—
Brazener, Harry M.; and Newman, Robert W.,3,477,893.
Newman, Roger, to Sperry Rand Corporation. Optical computer comprising semiconductor p-n junction components. 3,431,438, 3-4-69, Cl. 307-312.
Newman, Roy L. Method and apparatus for filling dental cavities. 3,421,222, 1-14-69, Cl. 32-15.
Newman, Roy L. Saliva ejector. 3,426,430, 2-11-69, Cl. 32-33.
Newman, Samuel, to Newman, Barney. Weighing device. 3,433,316, 3-18-69, Cl. 177-208.
Newman, Seymour: *See*—
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,048.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,049.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,050.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,051.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,480,569.
Newman, Stanley F.; Dion, Gerald H.; and Cwycyshyn, Walter, to General Motors Corporation. Rotary limit switch. 3,441,691, 4-29-69, Cl. 200-47.
Newman, Stanley Herbert, to Societe Franco-Hispano-Americaine Francispam. Lighter casing fastener. 3,464,777, 9-2-69, Cl. 431-142.
Newman, Stanley H. Disposable cigarette lighter. 3,447,882, 6-3-69, Cl. 431-131.
Newman, Stanley H. Cigarette lighter. 3,479,125, 11-18-69, Cl. 431-254.
Newman, Theodore R., to Nalco Chemical Company. Method of redispersing deposits. 3,430,641, 3-4-69, Cl. 134-22.
Newman, Theodore R., to Nalco Chemical Company. Iron deposit prevention. 3,433,739, 3-18-69, Cl. 210-58.
Newman, Theodore R., to Nalco Chemical Company. Composition for use in stabilizing calcium carbonate in cooling water. 3,476,689, 11-4-69, Cl. 252-175.
Newman, William, & Sons Limited: *See*—
Shead, Herbert Charles, 3,421,176.
Newman, William G., to Beaver Precision Products, Inc. Bag way package. 3,467,447, 9-16-69, Cl. 308-6.
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J., to Beaver Precision Products, Inc. Method of forming bar screws. 3,421,351, 1-14-69, Cl. 72-64.
Newman, William G.; Doran, Leo F.; and Ezyk, Irving J., to Beaver Precision Products, Inc. Bar screw straightener. 3,468,146, 9-23-69, Cl. 72-64.
Newman, Zdenek C. Article supporting stand. 3,473,771, 10-21-69, Cl. 248-188.4
Newmark, Harold Leon: *See*—
Carstensen, Jens Thuroe; Newmark, Harold Leon; and Vance, John James,3,450,821.
Newmark Instruments Limited: *See*—
Cooke, Albert Edward, 3,478,945.
Newport, John J., III: *See*—
Reding, John T.; and Newport, John J., III,3,424,666.
Newport, John Prescott: *See*—
Levy, Winifred Jane; Newport, John Prescott; and Reynolds, Reginald John William,3,432,430.
Newport News Shipbuilding and Dry Dock Company: *See*—
Brown, Buist W., 3,475,712.
Cox, Julian F., Jr., 3,481,050.
Grigsby, Charles E.; Long, Chester L.; and Hose, Alexander V., 3,437,111.
Smith, Benjamin T.; Ross, Julian P., Jr.; and Trexler, Joseph E., Jr., 3,429,553.
Tatum, Samuel A., 3,478,602.
Newport, Stanley Bernard; and Russell, Michael King. Aircraft instruments. 3,485,097, 12-23-69, Cl. 73-178.
Newsom, Bobby G. Hydrofoil craft. 3,421,468, 1-14-69, Cl. 114-66.5
Newson, Exeter Robert: *See*—
Lloyd, Arnold; and Newson, Exeter Robert,3,439,411.
Newson, Ivan Henry: *See*—
Walker, Peter Thomas; and Newson, Ivan Henry,3,483,093.
Newstead, Charles, to Girling Limited. Spreading, spot-type disc brake. 3,448,831, 6-10-69, Cl. 188-73.
Newstead, Charles, to Girling Limited. Diaphragm operated disc brake. 3,459,283, 8-5-69, Cl. 188-152.
Newstead, Charles, to Girling Limited. Drum brakes for vehicles. 3,464,524, 9-2-69, Cl. 188-78.
Newstead, Charles, to Girling Limited. Brake adjuster mechanisms. 3,464,525, 9-2-69, Cl. 188-79.5
Newstead, Charles, to Girling Limited. Drum brakes. 3,474,683, 10-28-69, Cl. 74-110.
Newstead, Charles, to Girling Limited. Roller expander actuator for vehicle brakes. 3,482,460, 12-9-69, Cl. 74-110.
Newsteder, Robert. Submerged water treating device for aquaria. 3,487,440, 12-30-69, Cl. 210-169.
Newswanger, Paul S. Vehicle hoist assembly. 3,428,191, 2-18-69, Cl. 214-1.
Newton, Alwin B., to Borg-Warner Corporation. Air conditioning unit and pump for single pipe system. 3,425,485, 2-4-69, Cl. 165-22.
Newton, Alwin B., to Borg-Warner Corporation. Air conditioning system. 3,433,025, 3-18-69, Cl. 62-3.
Newton, Alwin B., to Borg-Warner Corporation. Thermoelectric conditioning apparatus. 3,474,632, 10-28-69, Cl. 62-3.
Newton, Archie; and Brangwin, Frank, to Imperial Chemical Industries Limited. Production of ethers. 3,446,853, 5-27-69, Cl. 260-614.
Newton, Arnold, to Radio Corporation of America. Distributed feedback frequency compression in frequency modulation reception. 3,428,900, 2-18-69, Cl. 325-346.
Newton, Catherine H.: *See*—
Brandon, Clarence W., 3,422,894.
Brandon, Clarence W., 3,438,352.
Newton, Charles G., Jr., to United Shoe Machinery Corporation. Porous elastomeric coating. 3,445,272, 5-20-69, Cl. 117-119.
Newton, Charles G., Jr.: *See*—
Radcliffe, Milton R.; and Newton, Charles G., Jr.,3,450,556.
Newton, Clifford, to Smith, F., & Co. (Whitworth) Limited. Jig dyeing. 3,448,470, 6-10-69, Cl. 8-151.
Newton, Devaulson D. Coupling device. 3,471,175, 10-7-69, Cl. 285-35.
Newton, Harry A. Compartmented glass bottles. 3,467,269, 9-16-69, Cl. 215-6.
Newton Insert Co.: *See*—
Barrett, Raymond L., 3,455,198.
Newton, Ivan H., to Newton, Jessie Louise. Closure members for vacuum type containers and the like. 3,485,404, 12-23-69, Cl. 215-41.
Newton, Jefferson F. Swimming equipment. 3,428,980, 2-25-69, Cl. 9-329.
Newton, Jessie Louise: *See*—
Newton, Ivan H., 3,485,404.
Newton, John R., to Dow Chemical Company, The. Index tab and preparation thereof. 3,425,145, 2-4-69, Cl. 40-23.
Newton, John S.: *See*—
Beck, William R.; and Newton, John S.,3,443,655.
Newton, John S., to Portec, Inc. Rail to tie fastener. 3,429,505, 2-25-69, Cl. 238-349.
Newton, John S., to Portec, Inc. Rail-to-tie fastener. 3,458,132, 7-29-69, Cl. 238-349.
Newton, Robert A., to Dow Chemical Company, The. Stabilizer for polyols. 3,424,691, 1-28-69, Cl. 252-188.3
Newton, Robert A., to Dow Chemical Company, The. Stabilizer for polyols. 3,428,567, 2-18-69, Cl. 252-188.3
Newton, Robert F.: *See*—
Oslebo, Richard G.; Newton, Robert F.; and Jacobson, Alden H.,3,458,924.
Newton, Russell A., to Rockford Machine Tool Co. Hydraulic actuator for an injection molding machine. 3,452,397, 7-1-69, Cl. 18-30.
Ney, Andrew V., to Salem Valve Company. Fluid type valve. 3,422,852, 1-21-69, Cl. 137-625.69
Ney, J. M., Company, The: *See*—
Yorgensen, Harry P., 3,437,984.
Ney, Peter: *See*—
Hahn, Fritz; and Ney, Peter,3,479,127.
Ney, Robert J., to General Electric Company. Image orthicon glass target with aluminum- tantalum oxide coating. 3,437,860, 4-8-69, Cl. 313-65.
Neyer, Stanley A. Automatic variable sequence valve control system. 3,420,270, 1-7-69, Cl. 137-624.18
Neyhart, James H.: *See*—
Wood, Charles; Kamath, G Sanjiv; and Neyhart, James H.,3,469,978.
Neyret, Georges. Woven fabric with interwoven design. 3,434,510, 3-25-69, Cl. 139-408.
Neyroud, Walter, to Holzbau-und Finanz-Etablissement. Home-assembled furniture kit. 3,429,631, 2-25-69, Cl. 312-257.

Nezu, Hiroyuki: *See—*
Shinagawa, Mutsuaki; and Nezu, Hiroyuki,3,458,412.
NGK Insulators, Ltd.: *See—*
Fukui, Hiroshi, 3,431,126.
Kobayashi, Kazuo; and Yamauchi, Michiaki, 3,431,073.
Moriya, Tsutomu, 3,479,861.
Yamamoto Noboru; and Higuchi, Noboru, 3,459,567.
NGK Spark Plug Co., Ltd.: *See—*
Banno, Hisao; and Tsunooka, Tsutomu, 3,463,732.
Banno, Hisao; Maeda, Shoji; Tsunooka, Tsutomu; and Sakai, Masao, 3,464,924.
Kanda, Isao, 3,434,790.
Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Incorporated. Filter element using ferromagnetic material loading. 3,458,837, 7-29-69, Cl. 333-73.
Ngo, Dinh Tuan, to Bell Telephone Laboratories, Incorporated. Wave switching arrangement. 3,479,619, 11-18-69, Cl. 333-31.
Ni Napoli, Louis D.; and Shaffer, William J., to Leeds & Northrup Company. Protection circuit for solid state switching network. 3,444,449, 5-13-69, Cl. 318-207.
Niada, Giorgio. Hydraulic shock absorber for picking sticks of looms. 3,482,828, 12-9-69, Cl. 267-1.
Niagara Blower Company: *See—*
Kals, Walter, 3,421,574.
Niagara Frontier Service, Inc.: *See—*
Gravely, Oscar W., 3,457,423.
Niagara Machine & Tool Works: *See—*
Jones, Clarence O., Jr., 3,485,071.
Trautman, George H., Jr., 3,469,435.
Nibby, Chester M., Jr.: *See—*
Andrews, John R., Jr.; Goldman, Philip A.; and Nibby, Chester M., Jr.,3,436,687.
Nibco Inc.: *See—*
Jayne, Theodore D., 3,453,721.
Pletcher, Donald L.; and Stalter, John D., 3,420,499.
Nihot Corporation: *See—*
Ostrowsky, Efrem M.; and Tunzi, Joseph P., 3,471,054.
Nicaise, Robert C.; and Donneau, Pascal J. J., to Compagnie des Metaux d'Overpelt-Lommel et de Corphalie, S.A. Electrothermal reduction of oxide ores or other oxide compounds. 3,451,805, 6-24-69, Cl. 75-14.
Niccore, Fred W.: *See—*
Mahnken, Walter J.; Niccore, Fred W.; and Tyler, Tommy N.,3,458,096.
Nice, Nathan C., to Philco-Ford Corporation. High voltage connection for cathode ray tube. 3,432,803, 3-11-69, Cl. 339-144.
Nicely, Thomas E.: *See—*
Kelly, Calvin E.; and Nicely, Thomas E.,3,467,399.
Nichiro Kogyo Company, Ltd.: *See—*
Nakano, Akio, 3,438,833.
Nicholas, Andrew John; and Twitchett, Harry James, to Imperial Chemical Industries Limited. Preparation of aromatic isocyanates. 3,465,021, 9-2-69, Cl. 260-453.
Nicholas, Arthur S., to U.S. Industries, Inc., mesne. Seat mounted retractor housing. 3,455,603, 7-15-69, Cl. 297-388.
Nicholas, David William, to Hovercraft Development Limited. Gas cushion vehicles of the side wall type. 3,430,725, 3-4-69, Cl. 180-126.
Nicholas, Keith Harlow: *See—*
Klein, Thomas; and Nicholas, Keith Harlow,3,470,076.
Nicholas, Morris W., to Marathon Oil Company. Methods and apparatus for storage and transportation of volatile materials. 3,426,776, 2-11-69, Cl. 137-12.
Nicholas, Nicholas J.: *See—*
Amberg, Stephen W.; Burke, Douglas J.; and Nicholas, Nicholas J.,3,454,208.
Nicholas, Robert D.: *See—*
Wilson, Ransford B.; Nicholas, Robert D.; and Williams, Carl J.,3,457,074.
Nicholls, Arthur E. Apparatus for filling containers with liquid. 3,474,835, 10-28-69, Cl. 141-59.
Nicholls, Bertram Frank; and Detheridge, John Stanley, to Lucas, Joseph, (Industries) Limited. Commutators. 3,487,249, 12-30-69, Cl. 310-234.
Nicholls, Wilfrid, to Maxam Switchgear Limited. Electrical bus bar system. 3,484,538, 12-16-69, Cl. 174-88.
Nichols, Beverly R., to Allis-Chalmers Manufacturing Company. Electrode backing plate for electrochemical cells. 3,484,298, 12-16-69, Cl. 136-120.
Nichols, Charles A.; Joyce, Alexander H.; Gardner, Charles W.; and Fletcher, William A., to General Motors Corporation. Battery grid casting method and machine. 3,455,371, 7-15-69, Cl. 164-87.
Nichols, David Edgar Thomas: *See—*
Blackband, William Thomas; and Nichols, David Edgar Thomas,3,453,623.
Nichols, Donald E., to Boeing Company, The. Pressure regulating valve. 3,463,558, 8-26-69, Cl. 303-54.
Nichols, Duane C., to Whirlpool Corporation. Battery charging circuit. 3,477,009, 11-4-69, Cl. 320-23.
Nichols, Duane C.: *See—*
Cargo, Kenneth F.; and Nichols, Duane C.,3,464,673.
Nichols, Earl F.; Ivey, Kenneth H.; and Shell, Haskiel R., to United States of America, Interior. Method and apparatus for growing large monocrystals of nonmetallics. 3,443,891, 5-13-69, Cl. 23-110.
Nichols, Edgar B., Jr.: *See—*
Nichols, Edgar B.; and Nichols, Edgar B., Jr.,3,438,257.
Nichols, Edgar B. Apparatus for making resinous solutions. 3,423,292, 1-21-69, Cl. 202-169.
Nichols, Edgar B. Liquid level indicator. 3,442;127, 5-6-69, Cl. 73-327.
Nichols, Edgar B. Golf practice apparatus. 3,452,990, 7-1-69, Cl. 273-185.
Nichols, Edgar B. Prepared paints and color kits for artists. 3,472,359, 10-14-69, Cl. 206-1.8
Nichols, Edgar B.; and Nichols, Edgar B., Jr. Golf practicing apparatus. 3,438,257, 4-15-69, Cl. 73-379.
Nichols, Edward C.; and Tiernan, Stanley C., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, the. Reed control for terry loom. 3,425,458, 2-4-69, Cl. 139-26.
Nichols Engineering & Research Corporation: *See—*
Ruzika, Joseph W., 3,457,882.
Wurtmann, George G., 3,421,622.
Nichols, Frank S.: *See—*
Gray, Willard F. M.; and Nichols, Frank S.,3,427,578.
Nichols, Fred B.: *See—*
Clasen, Richard D.; and Nichols, Fred B.,3,430,914.
Nichols, George M., to Du Pont de Nemours, E. I., and Company. Halide-modified phosphonitrilic chlorides. 3,449,091, 6-10-69, Cl. 23-357.
Nichols, Gordon W., to GAF Corporation. Mask for flow detector which prevents end of material from being confused with flaw. 3,458,707, 7-29-69, Cl. 250-219.
Nichols, Gordon W., to GAF Corporation. Densitometer analog-to-digital converter system. 3,471,242, 10-7-69, Cl. 356-202.
Nichols, Gordon W.; and Radin, Edward J., to GAF Corporation. Automatic exposure system. 3,472,592, 10-14-69, Cl. 355-83.
Nichols, Harry J. Quickly operable keyless couplings. 3,434,747, 3-25-69, Cl. 287-53.
Nichols, Harry R.: *See—*
Hill, Vernon L.; Rausch, John J.; Hess, Alan L.; Van Thyne, Ray J.; and Nichols, Harry R.,3,446,615.
Nichols, Hugh E. Elevatable vehicle. 3,427,041, 2-11-69, Cl. 280-43.18
Nichols, Ivan A.; and Anderson, Alan S., to Williamson Development Co., Inc. Energy concentrating and sighting device for radiometric apparatus. 3,441,348, 4-29-69, Cl. 356-43.
Nichols, John R.: *See—*
Gentry, Bryan R.; and Nichols, John R.,3,450,041.
Nichols, Joseph, to Ethicon, Inc. Collagen fibril matrix pharmaceuticals. 3,435,110, 3-25-69, Cl. 424-20.
Nichols, Joseph, to Ethicon, Inc. Collagen fibril matrix pharmaceuticals. 3,435,117, 3-25-69, Cl. 424-271.
Nichols, Larry D.; and Obermayer, Arthur S., to Molecular Corporation. Tetrabenzimidazole. 3,481,945, 12-2-69, Cl. 260-299.
Nichols, Larry D.; Obermayer, Arthur S.; and Panar, Manuel, to Molecular Research Corporation. Manufacture of trifluorostyrene. 3,449,449, 6-10-69, Cl. 260-651.
Nichols, Matthew, to Sauter Packaging Company. Packaging machine. 3,464,182, 9-2-69, Cl. 53-184.
Nichols, Nathaniel B.: *See—*
Jaquith, Howard R.; McCarthy, James L.; Nichols, Nathaniel B.; and Norton, Stanley C., Jr.,3,480,854.
Nichols, Newlin S.: *See—*
Dawn, Robert C.; and Nichols, Newlin S.,3,437,624.
Nichols, Thomas C., Jr.; Abel, John F., Jr.; and Lee, Fitzhugh T., to United States of America, Interior. Solid inclusion, 3-dimensional, borehole stressmeter. 3,482,443, 12-9-69, Cl. 73-151.
Nichols, Walter B. Splice connector assembly. 3,456,968, 7-22-69, Cl. 287-20.92
Nicholson, Charles B., Jr.: *See—*
Newcomb, Douglas H.; and Nicholson, Charles B., Jr.,3,468,341.
Newcomb, Douglas H.; and Nicholson, Charles B.,3,461,908.
Nicholson File Company: *See—*
Merz, Max, 3,473,581.
Nicholson, George Galloway; Jackman, Ronald; and Stubbins, Derek, to Davy and United Engineering Company Limited. Control of strip. 3,421,708, 1-14-69, Cl. 242-57.
Nicholson, James F., to Westinghouse Electric Corporation. Optical image scanning system. 3,445,588, 5-20-69, Cl. 178-6.8
Nicholson, James F.: *See—*
Hall, James A.; and Nicholson, James F.,3,469,141.
Levan, ames L.; and Nicholson, James F.,3,441,785.
Nicholson, James R., to Monsanto Company. Monitored melt spinning method and apparatus. 3,475,523, 10-28-69, Cl. 264-40.
Nicholson, John B., to Continental Can Company, Inc. Container having lip protective means. 3,442,416, 5-6-69, Cl. 220-54.

Nicholson, John B.: *See—*
Moller, Jens L.; and Nicholson, John B.,3,471,059.
Nicholson, Leonard S.: *See—*
Louviere, Allen J.; and Nicholson, Leonard S.,3,447,124.
Nicholson, Samuel C.: *See—*
Greathouse, Carl F., 3,460,268.
Nicita, Domenico, to Snia Viscosa Societa Nazionale Industria Applicazione Viscosa S.p.A. Treatment of continuous multifilament threads and relative threads having a controllably labile cohesion. 3,436,798, 4-8-69, Cl. 28-1.
Nicita, Domenico; Parmeggiani, Paolo; Perazzoni, Pierluigi; and Giacobone, Picro, deceased0 (by Giacobone, Emilia Manfredini; administratrix), to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Spinning process with contemporaneous stretching of synthetic fibres. 3,448,186, 6-3-69, Cl. 264-210.
Nick, Howard H.: *See—*
Bolt, Murray H.; and Nick, Howard H.,3,444,470.
Nickel, Ronald W. Dump truck arrangement for dumping material from one truck to another. 3,447,700, 6-3-69, Cl. 214-38.
Nickel, Wilbur H. Game board with playing positions arranged about a central vacant area. 3,460,834, 8-12-69, Cl. 273-131.
Nickell, Lawrence Creigh; Fertig, Raymond Baines; Spence, Harry Robert; and Sessions, Henry T., to Appalachian Electronic Instruments, Incorporated. Track structure for sensing heads of web width monitor apparatus. 3,486,828, 12-30-69, Cl. 356-199.
Nickell, Louis G.; and Tanimoto, Tyrus, to Hawaiian Sugar Planters Association. Method of increasing sugar yield of sugarcane by treatment with certain endothal compounds, and compositions useful therein. 3,482,959, 12-9-69, Cl. 71-88.
Nickell, Louis G.; and Tanimoto, Tyrus T., to Hawaiian Sugar Planters Association. Method for increasing the sugar content of sugar cane. 3,482,958, 12-9-69, Cl. 71-92.
Nickell, Louis G.; and Tanimoto, Tyrus T., to Hawaiian Sugar Planters Association. Method for increasing the sugar content of sugar cane. 3,482,961, 12-9-69, Cl. 71-121.
Nickerson, Edith E. Nightgowns for nursing mothers. 3,423,761, 1-28-69, Cl. 2-74.
Nickerson, Gene A. Removable lawn edging device. 3,438,146, 4-15-69, Cl. 47-33.
Nickerson, John D.: *See—*
Wiesboeck, Robert A.; and Nickerson, John D.,3,459,528.
Nickl, Franklyn George, to Canteen Corporation. Playback apparatus for multiple magnetic tape cartridges. 3,431,367, 3-4-69, Cl. 179-100.2
Nickl, Josef; Keck, Johannes; and Engelhorn, Robert, to Boehringer Ingelheim G.m.b.H. Novel 2-amino-benzylamines and salts thereof. 3,448,106, 6-3-69, Cl. 260-247.5
Nickl, Josef: *See—*
Keck, Johannes; Nickl, Josef; Koss, Friedrich-Wilhelm; Schraven, Eckhard; and Beisenherz, Gerwin,3,454,574.
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid,3,470,152.
Nickla, Louis E.: *See—*
Barrett, Monroe C.; Kenna, Fenton L., Jr.; Nickla, Louis E.; and Clendenin, Wilbur H.,3,455,466.
Nickla, Louis E.; Barrett, Monroe C.; and Kenna, Fenton L., Jr., to International Harvester Company. Bale transfer mechanism. 3,441,152, 4-29-69, Cl. 214-42.
Nicklasson, Sven M. A., to Pullmax Aktiebolag. Means for guiding the punch in nibbling machines and the like. 3,481,236, 12-2-69, Cl. 83-140.
Nicklasson, Sven, to Pullmax Aktiebolag. Arrangement in sheet metal working machines, particularly nibbling machines. 3,426,635, 2-11-69, Cl. 83-530.
Nicklin, Thomas; and Farrington, Frederick. Treatment of hydrocarbons and catalysts therefor. 3,475,328, 10-28-69, Cl. 208-243.
Nickola, Richard A.; and Shaffer, Thomas F., Jr., to United States Steel Corporation. Method for inhibiting the staining of articles fabricated from aluminum-coated products. 3,461,000, 8-12-69, Cl. 148-6.35
Nickola, Richard A.; and Spare, Gordon T., to United States Steel Corporation. Process for making steel wire. 3,458,365, 7-29-69, Cl. 148-12.4
Nickolaus, Arthur T.: *See—*
Thomas, Wilbur E.; and Nickolaus, Arthur T.,3,463,481.
Niclas, Walter; and Wittneben, Hermann, to Continental Gummi-Werke Aktiengesellschaft. vehicle tire. 3,486,545, 12-30-69, Cl. 152-155.
Nicodemus, Joachim: *See—*
Bode, Helmut; and Nicodemus, Joachim,3,427,921.
Nicol, Edward A., to Burroughs Corporation. Snap-on web supporting member for web feed mechanism. 3,438,560, 4-15-69, Cl. 226-196.
Nicol, John, to Weatherhead Company, The. Welded tube fitting. 3,439,941, 4-22-69, Cl. 285-21.
Nicol, John: *See—*
Weatherhead, Albert J., Jr.; and Nicol, John,3,479,713.
Nicola, William H., to Swingspout Measure Co. Dual-tap beer dispensing apparatus. 3,464,591, 9-2-69, Cl. 222-30.
Nicolai, Hans-Joachim Reinhold: *See—*
Lange, Siegfried Karl; Naumann, Gunther Erich; Engler, Rolf Hans; and Nicolai, Hans-Joachim Reinhold,3,484,800.
Nicolaisen, Bernard H., to Olin Mathieson Chemical Corporation. Current flow interrupter utilizing a tiltable chamber. 3,440,327, 4-22-69, Cl. 174-15.
Nicolaisen, Bernard H., to Olin Mathieson Chemical Corporation. Dechlorination of brine and recovery of chlorine. 3,446,719, 5-27-69, Cl. 204-99.
Nicolas, Jean Bernard. Apparatus for loading a storage enclosure. 3,446,371, 5-27-69, Cl. 214-17.
Nicolaus, Delmar O.: *See—*
Nicolaus, Otto C.; and Nicolaus, Delmar O.,3,458,326.
Nicolaus, Frank G.: *See—*
Breitenstein, Charles T.; and Nicolaus, Frank G.,3,483,957.
Nicolaus, Otto C.; and Nicolaus, Delmar O. Apparatus for cooking grain. 3,458,326, 7-29-69, Cl. 99-235.
Nicolay, Heinz: *See—*
Gruner, Hans; and Nicolay, Heinz,3,439,958.
Nicolay, Robert C., to Wooster Brush Company, The. Flat pad applicator. 3,484,795, 12-16-69, Cl. 15-144.
Nicolella, Vincenzo: *See—*
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo,3,420,844.
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo,3,420,845.
Nicoll, Frederick H., to RCA Corporation. Methods of electrophotographic and electrostatic recording. 3,475,170, 10-28-69, Cl. 96-1.1
Nicoll, Sidney B., Jr. Apparatus for the manufacture of ceramic products. 3,456,308, 7-22-69, Cl. 25-2.
Nicollian, Edward H.: *See—*
Goetzberger, Adolf; and Nicollian, Edward H.,3,477,033.
Nicolls, Wilfred Edward Walter, to C.A.V. Limited. Liquid fuel pumping apparatus. 3,482,519, 12-9-69, Cl. 103-2.
Nicolson, Kingsley M., to Chevron Research Company. Method and apparatus for offshore deep drilling from a floating platform. 3,435,906, 4-1-69, Cl. 175-7.
Nicolson, Richard E.: *See—*
Kaufman, Stephen; and Nicolson, Richard E.,3,422,157.
Niculescu, Ion Alexandru: *See—*
Patron, Teodor; Niculescu, Ion Alexandru; and Anastasescu, Efrem,3,450,203.
Nicyper, Raymond. Set of underlay drafting panels. 3,479,741, 11-25-69, Cl. 33-1.
Nid Pty. Limited: *See—*
Faerber, Hans Arthur, 3,422,970.
Faerber, Hans Arthur, 3,426,705.
Faerber, Hans Arthur, 3,458,058.
Nidola, Antonio: *See—*
Bianchi, Giuseppe; and Nidola, Antonio,3,428,544.
Niebel, Benjamin W.; Stover, Richard N.; and Winner, Forney D. Perfect circle hemorrhoidal excisor, stapler and excisor hemostatic dilator. 3,472,231, 10-14-69, Cl. 128-334.
Niebergall, Louis F., to Walker Manufacturing Company. Filter test apparatus. 3,478,601, 11-18-69, Cl. 73-432.
Niedecker, Herbert. Sealing clamp. 3,473,430, 10-21-69, Cl. 85-49.
Niedek, Edward J. Motor vehicle drip absorption device with disposable element. 3,454,124, 7-8-69, Cl. 180-69.1
Niedereder, Martin, to Siemens Aktiengesellschaft. Circuit arrangement for frequency marker generation. 3,423,678, 1-21-69, Cl. 324-77.
Niederer, Kurt: *See—*
Bell, Charles C.; and Niederer, Kurt,3,445,995.
Niederer, Otto C. Egg feeding means. 3,428,161, 2-18-69, Cl. 198-30.
Niederer, Otto C. Egg handling equipment. 3,428,162, 2-18-69, Cl. 198-33.
Niederer, Otto C. Egg orienting equipment. 3,478,862, 11-18-69, Cl. 198-33.
Niederhauser, Warren D.: *See—*
Chaille, James L.; Niederhauser, Warren D.; and Kennedy, Al,3,427,297.
Niedermayer, Egon. Piston-type compressors. 3,457,948, 7-29-69, Cl. 137-533.17
Niederprum, Hans; Horn, Elmar-Manfred; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of aminoalkyl silicon compounds. 3,458,553, 7-29-69, Cl. 260-448.2
Niederprum, Hans; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Method of preparing 4-alkyl-2,2-dimethyl-2-silamorpholines. 3,448,137, 6-3-69, Cl. 260-448.8
Niederprum, Hans; Simmler, Walter; and Horn, Elmar-Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of hydroxymethyl- substituted organosiloxanes. 3,446,830, 5-27-69, Cl. 260-448.2
Niederprum, Hans: *See—*
Sattlegger, Hans; Simmler, Walter; Noll, Walter; and Niederprum, Hans,3,449,393.
Simmler, Walter; and Niederprum, Hans,3,481,962.

Simmler, Walter; and Niederprum, Hans,3,481,963.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans,3,437,679.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans,3,442,925.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans,3,444,228.
Niederrheinische Maschinenfabrik Becker & Van Hullen: *See*—
Hutter, Wilhelm, 3,431,838.
Hutter, Will, 3,451,334.
Plum, Hans; Feldges, Werner; Enger, Helmut; and Grefen, Hans, 3,431,595.
Schneider, Fritz, 3,468,243.
Niedetzky, Johann; and Hinrichs, Helmut, to Osterreichische Stickstoffwerke Aktiengesellschaft. High pressure reactor. 3,440,021, 4-22-69, Cl. 23-289.
Niedner, Peter Klaus: *See*—
Niedner, Peter Klaus; and Conradi, Karl-Heinz, 3,484,288.
Niedner, Peter Klaus; and Conradi, Karl-Heinz, to Niedner, Peter Klaus, mesne. Process for continuously pickling metallic strip material. 3,484,288, 12-16-69, Cl. 134-9.
Niedrach, Leonard W.; and Alford, Harvey R., to General Electric Company. Polytetrafluoroethylene coated and bonded cell structures. 3,432,355, 3-11-69, Cl. 136-86.
Niedzielski, Albert; and Noll, Robert F., to Accurate Finishing Tools Co., Inc. Mask washer. 3,428,058, 2-18-69, Cl. 134-104.
Niedzielski, Robert M.; and Powers, Donald E., to United Aircraft Corporation. Jet diffuser plate for electron beam device. 3,444,350, 5-13-69, Cl. 219-121.
Niehaus, Conrad F., to Niehaus Engineering S.A. Process for manufacturing iron or steel with low sulphur content. 3,427,150, 2-11-69, Cl. 75-55.
Niehaus, Edward J., Jr.: *See*—
Warrick, Edward C.; and Niehaus, Edward J., Jr.,3,481,438.
Niehaus Engineering S.A.: *See*—
Niehaus, Conrad F., 3,427,150.
Niehaus, Wolfgang; and Kuckens, Alexander. Cup dispensing device especially for automatic beverage dispensing apparatus. 3,460,593, 8-12-69, Cl. 141-372.
Niehaus, Wolfgang; and Kuckens, Alexander, to Dagma Deutsche Automaten und Getrankemaschinen G.m.b.H. & Co. Method of controlling an automatic vending machine. 3,461,922, 8-19-69, Cl. 141-1.
Nield, Eric: *See*—
Barrie, Ian Torrance; and Nield, Eric,3,426,228.
Nield, Eric, to Imperial Chemical Industries Limited. Process for producing imide derivatives. 3,431,276, 3-4-69, Cl. 260-326.5
Nield, Eric, to Imperial Chemical Industries Limited. Organic polymeric materials. 3,480,598, 11-25-69, Cl. 260-78.5
Nielsen, A. C., Company: *See*—
Harris, Eric W. P., 3,462,220.
Rahmel, Henry A., 3,453,641.
Nielsen, Anders: *See*—
Sparso, Viggo H.; and Nielsen, Anders,3,429,618.
Nielsen, Anker J., Jr., to Omco, Inc. Flow-interrupting device. 3,473,544, 10-21-69, Cl. 137-75.
Nielsen, Arthur. Signal apparatus for automotive vehicles. 3,441,906, 4-29-69, Cl. 340-72.
Nielsen, Axel L. Delayed action hydrostatic switch. 3,441,696, 4-29-69, Cl. 200-81.
Nielsen, B Aagaard, to Radiometer A/S. Gas-mixing apparatus. 3,464,434, 9-2-69, Cl. 137-98.
Nielsen, Edwin A., to Ideal Toy Corporation. Telescope device for toy gun. 3,441,270, 4-29-69, Cl. 272-8.
Nielsen, Edwin A., to Ideal Toy Corporation. Toy double-barreled shotgun. 3,465,744, 9-9-69, Cl. 124-27.
Nielsen, Erik, to Struers, H., Chemiske Laboratorium. Method of introducing successive liquid samples into a cell of an analyzing device and apparatus for carrying out the method. 3,478,598, 11-18-69, Cl. 73-423.
Nielsen, Georg Peter Christian, to Litollo A/S. Coupling mechanism. 3,460,402, 8-12-69, Cl. 74-548.
Nielsen, Georg Peter Christian, to Litollo A/S. Adjustable bed or chair. 3,484,878, 12-23-69, Cl. 5-327.
Nielsen, H., & Son Maskinfabrik A/S: *See*—
Ejlertsen, Bent N., 3,486,784.
Marcher, Jorgen, 3,445,105.
Nielsen, Hans B., to Vare Corporation. Linkage assembly. 3,455,179, 7-15-69, Cl. 74-503.
Nielsen, Hans Borge, to Vald Henriksen A/S. Jigger. 3,443,880, 5-13-69, Cl. 8-150.
Nielsen Hardware Corporation, The: *See*—
Swanson, Gunnar E., 3,428,348.
Nielsen, Howard A., Jr.; Bice, James W.; and Smith, Chester A., Jr., to Electrometric Incorporated. Fluid fitting mounted pressure transducer. 3,473,386, 10-21-69, Cl. 73-398.
Nielsen, Irvin P.: *See*—
Cameron, Russell J.; Nielsen, Irvin P.; and Burgh, Ernst E.,3,460,867.
Nielsen, James W. Electromagnetic uncoupler for model trains. 3,476,264, 11-4-69, Cl. 213-75.
Nielsen, John P., to United States of America, Navy. Loading rod for a triaxial cell soil tester. 3,457,777, 7-29-69, Cl. 73-84.
Nielsen, John P.; and Tuccillo, Joseph J., to Jelenko, J. F., & Co., Inc. Metal alloy composition. 3,424,577, 1-28-69, Cl. 75-134.
Nielsen, Kaj, to Aktieselskabet Niro Atomizer. Atomizer wheel for the atomization of suspensions of hard-wearing materials. 3,454,226, 7-8-69, Cl. 239-224.
Nielsen, Kaj, to Aktieselskabet Niro Atomizer. Atomizer wheel for simultaneously atomizing two components. 3,481,546, 12-2-69, Cl. 239-224.
Nielsen, Knud, Company, Inc.: *See*—
Williams, William H.; and Nielsen, Knud, Jr., 3,438,839.
Nielsen, Knud, Jr.: *See*—
Williams, William H.; and Nielsen, Knud, Jr.,3,438,839.
Nielsen, Melton P. Key case. 3,420,078, 1-7-69, Cl. 70-456.
Nielsen, Milton R., to American Hospital Supply Corporation. Dental console. 3,466,749, 9-16-69, Cl. 32-22.
Nielsen, Morris L.; and Greenley, Robert Z., to Monsanto Research Corporation. Method for preparing polymers of phosphinic amides. 3,435,013, 3-25-69, Cl. 260-88.3
Nielsen, Morris L.; Hathaway, Clayton E., Jr.; and Butler, John Mann, to Monsanto Research Corporation. Heat-resistant coatings. 3,455,731, 7-15-69, Cl. 117-127.
Nielsen, Niels C., to National Union Electric Corporation. Thermal cell. 3,470,027, 9-30-69, Cl. 136-83.
Nielsen, Paul O., to Polymer Engineering Corporation. Process for packaging and packaging material. 3,450,253, 6-17-69, Cl. 206-46.
Nielsen, Robert W., to United States of America, Navy, mesne. Servomechanism drive system. 3,440,505, 4-22-69, Cl. 318-30.
Nielsen, Walter David, to Chevron Research Company. Normal alkenyl-1-sulfonate detergents. 3,444,191, 5-13-69, Cl. 260-513.
Nielson, Gary I., deceased (by Hassell, Eva Nison, sole heir); and Gogarty, William B., to Marathon Oil Company. Batching pig and separation of interface in pipeline flow. 3,473,572, 10-21-69, Cl. 137-802.
Nielsson, Francis T., to International Minerals and Chemical Corporation. Preparation of calcium phosphates. 3,467,495, 9-16-69, Cl. 23-108.
Nieman, Hilbert W. Jet type air motor. 3,442,086, 5-6-69, Cl. 60-269.
Niemann, George W., to Texas Instruments, Incorporated. Complementary J-K flip-flop using transistor logic. 3,473,045, 10-14-69, Cl. 307-203.
Niemann, Gert: *See*—
Blaich, Emil; and Niemann, Gert,3,485,678.
Niemann, Helmut: *See*—
Bardenhagen, Dietrich; and Niemann, Helmut,3,476,002.
Niemann, Juergen: *See*—
Glen, Michael H.; and Niemann, Juergen,3,420,275.
Niemann, Juergen, to Ideal Industries, Inc. Fish tape reel assembly. 3,424,435, 1-28-69, Cl. 254-134.3
Niemann, Rudolf: *See*—
Six, Ludwig; Niemann, Rudolf; and Karlsruhe, Baden,3,442,216.
Niemeyer, Robert A., to Procter & Gamble Company, The. Carton having an internal, article-retaining pocket and method of making same. 3,443,682, 5-13-69, Cl. 206-47.
Niemeyer, Willy: *See*—
Kappelhoff, Hermann; Gunnerich, Max Georg; Paul, Walter; Steinbeck, Walter; and Niemeyer, Willy,3,448,666.
Niemeyer, Willy, to Windmoller & Holscher. Apparatus for welding flat blanks of plastic or plastic-coated material onto plastic articles. 3,455,768, 7-15-69, Cl. 156-521.
Niemi, Herbert W., to Faull, James K. Thrust bearing assembly. 3,445,147, 5-20-69, Cl. 308-135.
Niemi, Herbert W., to Impex Corporation. Drawer guide. 3,477,770, 11-11-69, Cl. 308-3.6
Niemiec, Albin J., to Sperry Rand Corporation. Power transmission. 3,468,263, 9-23-69, Cl. 103-162.
Niemiec, Jan: *See*—
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Niemkiewicz, Ignatius J.: *See*—
Condodina, Arthur C.; Niemkiewicz, Ignatius J.; and Shinbaum, Marvin S.,3,428,275.
Niemkiewicz, Ignatius John, to Bliss, E. W., Company. Plural pendant vehicle arresting system. 3,484,061, 12-16-69, Cl. 244-110.
Nienhaus, Clemans: *See*—
Schroter, Kurt; Nienhaus, Clemans; Vollmer, Jurgen; and Burghardt, Alfons,3,465,327.
Nienhuis, Rijkent Jan, to U.S. Philips Corporation, mesne. Integrated semiconductor device including IGFET with interdigitated structure. 3,484,865, 12-16-69, Cl. 317-235.
Nienstedt, William H.: *See*—
Truesdell, Robert E.; and Nienstedt, William H.,3,471,355.
Niepmann, Fr., & Co.: *See*—
Niepmann, Otto, 3,470,779.
Niepmann, Otto, to Niepmann, Fr., & Co. Device for cutting out the pulling of a band or the like used for ripping open wrappings. 3,470,779, 10-7-69, Cl. 83-300.

Niepraschk, Arno: *See—*
Blount, Charles, Jr.; and Niepraschk, Arno,3,477,073.
Nierla, Miroslav: *See—*
Bursik, Jan; Bursik, Ladislav; Kusiak, Ladislav; and Nierla, Miroslav,3,439,606.
Nies, Nelson P.: *See—*
Campbell, George W., Jr.; Nies, Nelson P.; and Atteberry, Johnny C.,3,479,137.
Nies, Nelson P.; and Sprague, Robert W., to United States Borax & Chemical Corporation. Production of a high boric oxide-containing product. 3,466,147, 9-9-69, Cl. 23-149.
Niess, Peter, to Gardner-Denver Company. Apparatus for tightening threaded parts. 3,454,111, 7-8-69, Cl. 173-12.
Niethammer, Konrad: *See—*
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart,3,452,076.
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst,3,476,545.
Mohr, Gunther; Niethammer, Konrad; Lust, Sigmund; and Schneider, Gerhart,3,468,895.
Nietzel, Walter N. Conduit coupling. 3,468,566, 9-23-69, Cl. 285-341.
Nieuweboer, Gerrit: *See—*
Johnson, Donald R.; Nadeau, Richard G.; Nieuweboer, Gerrit; and Truett, William L.,3,476,515.
Nieuweboer, Gerrit, to Du Pont de Nemours, E. I., and Company. Tension resolver. 3,444,731, 5-20-69, Cl. 73-144.
Nieuwenhoven, Hendricus Jacobus Cornelis: *See—*
van der Lely, Cornelis; and Nieuwenhoven, Hendricus Jacobus Cornelis,3,442,056.
van der Lely, Cornelis; and Nieuwenhoven, Hendricus Jacobus Cornelis,3,470,660.
Nieuwenhuis, Paulus G. J.: *See—*
Schroeder, Arnold; and Nieuwenhuis, Paulus G. J.,3,476,704.
Nieuwhof, Gerardus Wilhelmus Elisabeth, to Atomic Energy of Canada Limited. Magnetically operated reed switch assembly. 3,444,493, 5-13-69, Cl. 335-206.
Niewiadomski, Janusz: *See—*
Brzozowski, Wojciech; Mikos, Michal Mikos; and Niewiadomski, Janusz,3,449,505.
Niewold, Andreas, to Westinghouse Electric Corporation. Alkali metal generator. 3,468,806, 9-23-69, Cl. 252-181.4
Niewyk, Anthony; and McConnell, James L., to Whirlpool Corporation. Lint indicator system. 3,484,772, 12-16-69, Cl. 340-236.
Niezoldi & Kramer GmbH: *See—*
Blaschke, Ludwig, 3,472,583.
Krull, Ernst; Scheibel, Josef; and Roth, Johann, 3,452,658.
Niggebrugge, Herbert, to Societe Nationale des Petroles d'Aquitaine. Manufacture of alcohols. 3,437,700, 4-8-69, Cl. 260-642.
Niggemeier, Friedrich: *See—*
Groos, Horst Hans; Niggemeier, Friedrich; and Stapel, Heinz,3,475,941.
Nigh, Carl L., to General Motors Corporation. Bearing retainer. 3,433,539, 3-18-69, Cl. 308-22.
Nighswonger, Lester Leroy; Hunk, Billie Gene; and Malm, Donald Irwin, to Deere & Company. Interlocked change speed and auxiliary hydrostatic front wheel drive motor controls. 3,480,099, 11-25-69, Cl. 180-44.
Nightingale, E Richard, Jr., to Esso Research and Engineering Company. Preparation of crystalline alumina by homogeneous precipitation. 3,468,625, 9-23-69, Cl. 23-143.
Nightingale, Glen: *See—*
Loukes, David Gordon; and Nightingale, Glen,3,467,508.
Nightingale, Jack Warwick, to Pilkington Brothers Limited. Apparatus for use in the manner of using a blackboard. 3,484,956, 12-23-69, Cl. 35-66.
Nightingale, Robert Allen, to Marconi Company Limited, The. Angular position indicators for rotatable shafts. 3,433,238, 3-18-69, Cl. 137-81.5
Nightingale, Wesley W. Ram with supplementing intake means. 3,450,003, 6-17-69, Cl. 91-26.
Nightingale, William J. Metal diving board with liquid spring. 3,450,404, 6-17-69, Cl. 272-66.
Nigra, Jacques: *See—*
Chaupit, Jean; and Nigra, Jacques,3,469,165.
Nigrelli, Biagio J.; Standley, Wendell E.; and Sprogis, Andre, to Johns-Nigrelli-Johns, Inc. Blank conveying apparatus and method. 3,454,149, 7-8-69, Cl. 198-102.
Nigrelli, Biagio J.; Standley, Wendell E.; and Wittmann, Richard B., to Container Corporation of America. Partition forming and inserting apparatus. 3,473,295, 10-21-69, Cl. 53-393.
Nigro, Frank D.: *See—*
Coleman, Ronald H.; and Nigro, Frank D.,3,453,853.
Nihlen, Arvid C. K.; and Dorsey, Walter, to Happy Company, The. Heat transfer finned tubing. 3,468,372, 9-23-69, Cl. 165-184.
Nihof, Hendrikus J.: *See—*
Bijl, Aart; and Nihof, Hendrikus J.,3,454,886.
Nihon Denchi Kabushiki Kaisha: *See—*
Abe, Hidekazu; Shibata, Hiromichi; and Ito, Teruo, 3,445,296.
Nihon Denshi Kabushiki Kaisha: *See—*
Honme, Seigo; and Komatsubara, Gakuo, 3,486,021.
Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi, 3,484,866.
Seki, Toshimasa; and Takeuchi, Makota, 3,487,293.
Suzuki, Shigeru; and Baba, Yasutaka, 3,445,652.
Takeuchi, Makoto; and Nakagawa, Kazuo, 3,462,676.
Wada, Yoshio; Watanabe, Eiji; and Suzuki, Takao, 3,469,093.
Yamamoto, Makoto; Fujisawa, Minoru; and Watanabe, Eiji, 3,441,894.
Nihon Gakki Seizo Kabushiki Kaisha: *See—*
Enya, Choshi; and Hiraoka, Michihiro, 3,422,210.
Nihon Genshiryoku Kenkyo-Sho: *See—*
Hori, Masao; Fujimura, Tadato; Ohuchi, Yoshihiro; and Torigai, Kinichi, 3,466,154.
Nihon Genshiryoku Kenkyu Sho: *See—*
Amano, Noboru; and Furukawa, Tomozo, 3,444,461.
Nihon Genshiryoku Kenkyujo: *See—*
Kinoshita, Takehiko; and Yatsurugi, Tatsuo, 3,444,374.
Nihon Kentetsu Kabushiki Kaisha: *See—*
Sida, Juichi; Haki, Morio; and Yokoyama, Tosiaki, 3,473,534.
Nihon Kohden Kogyo, Ltd.: *See—*
Tateno, Keiji, 3,475,692.
Nihon Senshoku Kikai Kabushiki Kaisha Aichi-ken: *See—*
Inouye, Mitsuji; and Nagai, Yoshiharu, 3,471,102.
Nihot, Casper; Nihot, Evert Rudolf; and Saueressig, Petrus Andre Henri. Installations for sucking off and separation of waste products of working machines and centrifugal air pumps for use with it. 3,450,333, 6-17-69, Cl. 230-47.
Nihot, Evert Rudolf: *See—*
Nihot, Casper; Nihot, Evert Rudolf; and Saueressig, Petrus Andre Henri,3,450,333.
Nii, Takehiko: *See—*
Ohkoshi, Akio; Nii, Takehiko; and Tsukamura, Yoshihiro,3,437,868.
Niilo-Rama, Jaakko E., to Consolidated Papers, Inc. Starch conversion. 3,455,715, 7-15-69, Cl. 106-214.
Niilo-Rama, Jaakko E.; and Smiley, Robert J., to Consolidated Papers, Inc. Triazine derivatives of spent sulfite liquor. 3,455,895, 7-15-69, Cl. 260-124.
Niilola, Armas Kalervo. Padlock. 3,448,598, 6-10-69, Cl. 70-38.
Niilola, Armas Kalervo. Staples for padlock. 3,460,861, 8-12-69, Cl. 292-281.
Niilola, Armas Kalervo. Barrel-operated lock. 3,473,356, 10-21-69, Cl. 70-360.
Nijhof, Berend Jan: *See—*
Gie, Ong Tjing; Krijtenburg, Gerben Sjoerd; and Nijhof, Berend Jan,3,428,416.
Nijland, Louis Marius: *See—*
Janssens, Henri Hubert; Westerveld, Willem; and Nijland, Louis Marius,3,449,260.
Schroder, Johann; and Nijland, Louis Marius,3,459,488.
Nikai, Sei; Kojima, Yu; Mukai, Tsuneo; and Hirata, Shigeru, to Kajima Construction Company Limited, and Mitsui Construction Company Limited. Method of climbing a tower crane for constructing high buildings. 3,485,384, 12-23-69, Cl. 212-57.
Nikaido, Yoshiwaka: *See—*
Tagiri, Koichi; Iwai, Masuo; and Nikaido, Yoshiwaka,3,435,968.
Nikex Nehezipari Kulkereskedelmi Vallalat: *See—*
Lorinc, Gaspar, 3,421,378.
Vinkler, Attila; and Cserhati, Janos, 3,449,164.
Nikkel, Willem A.: *See—*
Griffiths, Darrell J. L.; Miller, Kenyon W.; and Nikkel, Willem A.,3,434,901.
Nikki Chemical Company, Limited: *See—*
Watanabe, Isaburo; Yoshioka, Haruo; Sanga, Seiji; Egashira, Shohachi; and Ohki, Taketo, 3,429,680.
Nikko Denki Kogyo Kabushiki Kaisha: *See—*
Mori, Ryoichi, 3,435,561.
Nikko Electric Industry Co., Ltd.: *See—*
Kirimoto, Seiji; and Kaneko, Taizo, 3,439,324.
Nikko Electric Mfg. Co., Ltd.: *See—*
Shiraishi, Tokuo, 3,469,216.
Nikko Kagaku Kabushiki Kaisha: *See—*
Yokohama, Yasutsugu, 3,431,078.
Niklas, Wilfrid F., to Rauland Corporation, The. Image intensifier tube with shading compensation. 3,443,104, 5-6-69, Cl. 250-213.
Niklaus, Ulrich: *See—*
Batzer, Hans; Ernst, Otto; and Niklaus, Ulrich,3,470,266.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans,3,455,869.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans,3,470,128.
Ernst, Otto; Niklaus, Ulrich; and Batzer, Hans,3,470,129.
Orth, Hans; and Niklaus, Ulrich,3,449,340.
Nikles, Erwin: *See—*
Batzer, Hans; and Nikles, Erwin,3,436,408.
Nikles, Erwin, to Ciba Limited. Diamino-s-triazine herbicides. 3,459,751, 8-5-69, Cl. 260-249.8
Nikles, Erwin; and Hitz, Hans-Rudolf, to Ciba Limited. 2,2,5-Trisubstituted-5-isonitrile-1,3-dioxolanes. 3,459,771, 8-5-69, Cl. 260-340.7

Nikles, Erwin; and Rohr, Otto, to Ciba Limited. Halogen substituted hydroxy-benzaldehyde hydrazonium salts. 3,455,983, 7-15-69, Cl. 260-459.
Porret, Daniel; Lohse, Friedrich; Leumann, Ernst; Nikles, Erwin; and Batzer, Hans,3,455,949.
Nikolsky, Leonid Evgenievich: *See—*
Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Volokhonsky, Lev Avramovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Scherbakov, Konstantin Alexandrovich; and Katsevich, Leonid Savich,3,483,917.
Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Volokhonsky, Lev Avramovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Scherbakov, Konstantin Alexandrovich; and Katsevich, Leonid Savich. Installation for the electroslag remelting. 3,483,917, 12-16-69, Cl. 164-250.
Niles, Burton M. Fishing pole mount. 3,456,377, 7-22-69, Cl. 43-15.
Niles, Harold T., to Ford Motor Company. Fuel tank having reduced fuel vapor emission. 3,477,611, 11-11-69, Cl. 220-86.
Niles, Vergil A. Pressure cooking apparatus. 3,428,783, 2-18-69, Cl. 219-399.
Nilles, Gaul: *See—*
Ledune, Jacques; and Nilles, Gaul,3,476,550.
Nilles, Paul: *See—*
Ledune, Jacques; and Nilles, Paul,3,423,202.
Nilok Chemicals, Inc.: *See—*
Vosseller, George V., 3,429,658.
Nilsen, Arnold E.: *See—*
Michal, Eugene J.; and Nilsen, Arnold E.,3,446,590.
Michal, Eugene J.; and Nilsen, Arnold E.,3,472,612.
Nilsen Mfg., Co.: *See—*
Nilsen, Peter J.; and Steide, Walter M., 3,463,452.
Nilsen, Peter J.; and Steide, Walter M., to Nilsen Mfg., Co. Valve construction for aerosol dispenser. 3,463,452, 8-26-69, Cl. 251-339.
Nilson, A. H., Machine Company, The: *See—*
Butler, Bruce W., 3,473,716.
Nilson, Carl-Goran, to Alfa-Laval AB. Apparatus for indicating sludge level in centrifuges. 3,445,061, 5-20-69, Cl. 233-20.
Nilson, Carl-Goran: *See—*
Kjellgren, Ove Allan V.; and Nilson, Carl-Goran,3,441,204.
Murkes, Jakob; and Nilson, Carl-Goran,3,438,571.
Nilson, Edward B.: *See—*
Field, Milton Scott; and Nilson, Edward B.,3,432,629.
Nilson, Fred W., 1/2 to Nilson, Ralph. Urinal holder. 3,473,772, 10-21-69, Cl. 248-214.
Nilson, Nils Emil R., to Svenska Rotor Maskiner Aktiebolag. Apparatus for making threaded moulds. 3,461,949, 8-19-69, Cl. 164-216.
Nilson, Ralph: *See—*
Nilson, Fred W., 3,473,772.
Nilson, Ronald R.: *See—*
Hamlen, Robert P.; Nilson, Ronald R.; and Girard, Roland T.,3,481,788.
Nilssen, Oke K.: *See—*
Colvin, Alex D.; Nilssen, Oke K.; and Turner, Allen H.,3,440,466.
Nilssen Ole K.; and Ziomek, Joseph F., to Ford Motor Company. Oscillator controlled electronic ignition system. 3,424,142, 1-28-69, Cl. 123-148.
Nilssen, Ole K., to Ford Motor Company. Electronic ignition system using multiple thyristors. 3,424,944, 1-28-69, Cl. 315-209.
Nilssen, Ole K., to Ford Motor Company. Electronic ignition system using oscillator controlled capacitor discharge. 3,434,009, 3-18-69, Cl. 315-209.
Nilssen, Ole K., to Ford Motor Company. Control circuit for an electric heating system used in automotive vehicles. 3,440,398, 4-22-69, Cl. 219-279.
Nilssen, Ole K., to Ford Motor Company. Ignition system applying induced voltage to the coil primary. 3,445,723, 5-20-69, Cl. 315-209.
Nilsson, Bengt Erik: *See—*
Groschopp, Herbert Gerhard; Hillbom, Per Tage Borje; and Nilsson, Bengt Erik,3,474,274.
Nilsson, Clarence A., to Christians, H. C., Co. Dry cultured buttermilk process. 3,468,670, 9-23-69, Cl. 99-59.
Nilsson, Erling Ingvar, to AB Akerlund & Rausing. Diaphragm pump, in particular for pumping viscous liquids. 3,429,274, 2-25-69, Cl. 103-152.
Nilsson, Erling Ingvar, to A B Akerlund & Rausing. Means for lateral guiding of a web of material. 3,442,428, 5-6-69, Cl. 226-19.
Nilsson, Goran A. Method and apparatus for breaking foam on foaming liquids and use thereof in oxidation system for regeneration of black liquor in sulfate pulp process. 3,425,899, 2-4-69, Cl. 162-30.
Nilsson, Goran Alfred. Method and apparatus for bringing gases, liquids and/or pulverized solid bodies into intimate contact with each other. 3,468,614, 9-23-69, Cl. 431-2.
Nilsson, Hans Robert, to Svenska Rotor Maskiner Aktiebolag. Rotary internal combustion engine. 3,468,294, 9-23-69, Cl. 123-12.
Nilsson, Karl Folke, to Boliden Aktiebolag. Bag filter system. 3,486,310, 12-30-69, Cl. 55-304.
Nilsson, Lennart Folke. Vehicles for road free conditions. 3,483,936, 12-16-69, Cl. 180-5.
Nilsson, Nils-Erik: *See—*
Agerman, Erik; Lindstedt, Ake; and Nilsson, Nils-Erik,3,470,404.
Nilsson, Per-Erik: *See—*
Holmstrom, Sven Carl-Johan; Nilsson, Per-Erik; and Olson, Tore Bertil,3,443,774.
Nilsson, Philip, to Soderhamns Verkstader Aktiebolag. Log chipping apparatus. 3,486,541, 12-30-69, Cl. 144-176.
Nilsson, Ragnar H., to Svenska Aktiebolaget Bromsrequlator. Pneumatic railway vehicle brake cylinder assemblies. 3,447,425, 6-3-69, Cl. 92-161.
Nilsson, Sven Melker: *See—*
Jonell, Per Olof; and Nilsson, Sven Melker,3,423,492.
Nilsson, Thomas; and Assarsson, Anders, to Mo och Domsjo Aktiebolag. Process for the treating of wood chips with fungi to enhance enzymatic hydrolysis of the resinous components. 3,486,969, 12-30-69, Cl. 162-72.
Nilsson, Vilgot Raymond, to Alfa-Laval AB. Apparatus for controlling gravity flow. 3,443,577, 5-13-69, Cl. 137-209.
Nilsson, Vilgot Raymond, to Alfa-Laval AB. Apparatus for continuous control of the concentration of a substance in a flowing liquid. 3,443,691, 5-13-69, Cl. 210-96.
Nimerick, Kenneth H.; and White, Jerry L., to Dow Chemical Company, The. Selective temporary sealing of a fluid-bearing zone in a geologic formation. 3,483,927, 12-16-69, Cl. 166-294.
Nimoy, Melvin, to Johnson & Johnson. Underpad. 3,427,670, 2-18-69, Cl. 5-354.
Nimtz, Klaus; and Franzen, Gustav, to Palitex Project-Company G.m.b.H. Two-for-one twisting machine. 3,429,113, 2-25-69, Cl. 57-34.
Nimtz, Klaus; and Franzen, Gustav, to Palitex Project-Company GmbH. Method of and apparatus for remedying a thread break. 3,478,504, 11-18-69, Cl. 57-34.
Nimtz, Klaus; Franzen, Gustav; and Heimes, Willi, to Palitex Project-Company G.m.b.H. Tangential belt drive for spindles on spinning and twisting frames. 3,461,660, 8-19-69, Cl. 57-105.
Nimtz, Klaus; Grapp, Hans; and Martens, Adolf, to Palitex Project-Company G.m.b.H. Balloon restrainer for two-for-one twisting machine. 3,430,431, 3-4-69, Cl. 57-108.
Nimtz, Klaus; Heimes, Willy; and Lossa, Ulrich, to Palitex Project-Company G.m.b.H. Multiple twist spindle. 3,456,432, 7-22-69, Cl. 57-58.76
Nineberg, Edward, to Hodges Press Inc., The. Printing press with flexible work support plate. 3,463,084, 8-26-69, Cl. 101-279.
Nines, Eugene: *See—*
Wapner, Joseph; Nines, Eugene; and Asai, Isao,3,448,408.
Ninet, Leon; Renaut, Jacques Albert; and Francois Tissier, Robert Charles, to Rhone-Poulenc S.A.Process for the production of β-carotene. 3,421,980, 1-14-69, Cl. 195-28.
Ninneman, Lawrence D., to Owens-Illinois, Inc. Method and apparatus for blow molding plastic articles. 3,453,353, 7-1-69, Cl. 264-97.
Ninneman, Lawrence D., to Owens-Illinois, Inc. Apparatus for forming plastic articles. 3,471,896, 10-14-69, Cl. 18-5.
Ninneman, Lawrence D.; and Wolford, Wallace W., to Owens-Illinois, Inc. Method of and apparatus for facing a container sealing surface. 3,468,219, 9-23-69, Cl. 90-14.
Ninneman, Lawrence Duane, to Owens-Illinois, Inc. Automatic case loader. 3,486,292, 12-30-69, Cl. 53-61.
Ninomiya, Tsunehiko: *See—*
Kaai, Jiro; Ninomiya, Tsunehiko; Okumura, Shinji; and Hayashi, Koichi,3,457,083.
Nip-Co Manufacturing, Inc.: *See—*
Cruickshank, Robert F., 3,426,898.
Nippert, Charles R., Sr.: *See—*
Pearson, William J.; and Nippert, Charles R., Sr.,3,429,168.
Nippert, Harold: *See—*
Wahl, Harold F.; and Nippert, Harold,3,430,873.
Nippon Airbrake Co., Ltd., The: *See—*
Mitani, Tetsuo; and Kato, Masao, 3,434,547.
Nippon Carbide Kogyo Kabushiki Kaisha: *See—*
Kamio, Kosaku; and Kuwana, Motoyuki, 3,477,972.
Nakamura, Hiroshi; Manmo, Shiro; Ishizaki, Yasutaro; Saito, Tokuji; and Kato, Kin, 3,473,288.
Nippon Chemical Industrial Co., Ltd.: *See—*
Sonobe, Kozo; and Nakaoka, Toshio, 3,457,293.
Nippon Chuzo Kabushiki Kaisha: *See—*
Murota, Shozaburo; and Yoshida, Masaharu, 3,477,690.
Nippon Columbia Company, Limited: *See—*
Kubo, Kikuo; and Saito, Katsuya, 3,460,097.
Nippon Columbia Kabushiki Kaisha (Nippon Columbia Co., Ltd.): *See—*
Matsuda, Hitoshi, 3,451,281.
Nippon Columbia Kabushikikaisha (Nippon Columbia Co., Ltd.): *See—*
Furusawa, Hidefumi, 3,439,879.
Okamoto, Michio; and Mitsuhashi, Kiyohiko, 3,482,027.

Suzuki, Hirofumi; Koike, Michiharu; and Fujiwara, Hisashi, 3,440,468.
Nippon Communication Industrial Company Limited: *See*—
Saeki, Hideo; and Kondo, Fumio, 3,445,731.
Nippon Conveyor Co., Ltd.: *See*—
Fujita, Takehisa, 3,433,176.
Nippon Denso Company Limited: *See*—
Kato, Masumi, 3,422,480.
Okamoto, Atutosi; Taniguchi, Koichi; and Nakano, Yoshiaki, 3,467,443.
Toda, Tadahide; Hanaoka, Masanori; and Yamaguchi, Taro, 3,473,626.
Nippon Denso Kabushiki Kaisha: *See*—
Aoki, Katsuo; and Yamaguchi, Terumoto, 3,436,812.
Ito, Mikiji; and Okuda, Ikuo, 3,455,105.
Kato, Takaaki, 3,476,205.
Kawai, Eiichi; and Okada, Masashi, 3,423,633.
Yamaguchi, Terumoto, 3,452,569.
Yamaguchi, Terumoto, 3,482,307.
Nippon Electric Company, Limited: *See*—
Akashi, Tsuneo; Takahashi, Masao; Tsubouchi, Norio; Ohno, Tomeji; and Yamauchi, Fumio, 3,461,071.
Akashi, Tsuneo; Takahashi, Masao; and Tsubouchi, Norio, 3,481,874.
Akashi, Tsuneo; Takahashi, Masao; and Ohno, Tomeji, 3,481,875.
Akiyama, Susumu; and Minc, Yukio, 3,473,136.
Hancta, Yuichi, 3,479,571.
Hayashi, Kazutami, 3,443,914.
Hayashi, Tcruo; Sato, Katsuo; and Kobayashi, Hiroyuki, 3,472,688.
Horio, Takamaro; and Tsugita, Masanobu, 3,448,328.
Ihara, Hiroshi, 3,471,516.
Ikeda, Koichi; Tsuji, Shigeru; Anazawa, Shinzo; and Koyama, Tsukasa, 3,420,683.
Ikeda, Koichi; and Minagawa, Katsuji, 3,425,817.
Ikeda, Koichi; Minagawa, Katsuji; and Nakagawa, Toru, 3,462,298.
Ishii, Yoshiteru; and Inokuchi, Takashi, 3,453,592.
Ishimoto, Kunio; and Tanaka, Kozo, 3,470,485.
Ito, Michiaki, 3,468,598.
Ito, Sukchiro; and Yokoyama, Seijiro, 3,447,086.
Ito, Sukchiro, 3,463,887.
Kancko, Hisashi, 3,482,044.
Kashiwagi, Etsuo; and Murakami, Hiroshi, 3,478,336.
Kawaji, Akira, 3,457,468.
Kawaji, Akira; and Yonczu, Hiroo, 3,470,427.
Kobara, Kiyoshi, 3,452,164.
Kobayashi, Haruhiro; and Oikado, Taizo, 3,478,279.
Kogo, Masanori; and Ishizawa, Kazuhiro, 3,430,174.
Kotaka, Yasukuni; Arakawa, Takeshi; and Kamata, Takemi, 3,430,120.
Koyanagi, Shiniti; and Morikawa, Sumio, 3,454,999.
Kozai, Tcruo, 3,456,932.
Kuroda, Takaji; and Kitazume, Susumu, 3,422,380.
Kurosawa, Toshio; and Shiba, Hiroshi, 3,423,647.
Maruyama, Mitsuhiro, 3,481,711.
Mita, Yoh, 3,428,569.
Mitsui, Toshio, 3,443,032.
Miyagi, Masahisa, 3,444,320.
Miyagi, Masahisa, 3,444,469.
Miyagi, Masahisa, 3,456,202.
Miyagi, Masahisa, 3,487,169.
Morita, Masasuke; and Miyagi, Masahisa, 3,480,733.
Murakami, Hiromi, 3,436,585.
Murakami, Ryuichi; and Kishigami, Minoru, 3,430,144.
Nagao, Morimasa; and Sakakibara, Naotaka, 3,469,120.
Nagata, Kuniichi; and Miura, Akira, 3,465,106.
Nannichi, Yasuo, 3,431,513.
Nannichi, Yasuo, 3,483,480.
Nomura, Keisaku, 3,469,116.
Oda, Zenjiro; and Sakai, Tadashi, 3,424,936.
Oda, Zenjiro; Saito, Koichi; Asamaki, Tatsuo; and Mori, Tokio, 3,436,332.
Okada, Takasi; and Nakamura, Masaru, 3,457,473.
Sasaki, Yozo; Furuoya, Takashi; Sugiyama, Haruo; and Murakami, Hiroshi, 3,465,308.
Sato, Katsuo; and Iric, Toshiaki, 3,424,956.
Sekimoto, Tadahiro, 3,428,899.
Sekimoto, Tadahiro, 3,449,675.
Shida, Yukinao; and Nagata, Muncyoshi, 3,455,428.
Shigaki, Seiichiro, 3,483,478.
Shimasaki, Nobuhiko; and Okuda, Jiro, 3,478,171.
Shinohara, Masao, 3,466,546.
Shiraishi, Masamichi; and Yamamoto, Hirohiko, 3,467,952.
Shiroki, Kenichi; and Saito, Seiichi, 3,446,602.
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki, 3,464,039.
Tamura, Ryoji; and Morita, Hideo, 3,457,521.
Tomozawa, Atsusi; and Shiba, Hiroshi, 3,471,712.
Tsubouchi, Norio; Takahashi, Masao; and Akashi, Tsuneo, 3,472,778.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, 3,484,377.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, 3,487,019.
Tsuji, Shigeru; Hayashi, Kazutami; Kadowaki, Kouichi; and Sato, Katsuo, 3,436,201.
Tsuji, Shigeru, 3,476,986.
Uchida, Teiji, 3,423,588.
Uchida, Teiji, 3,432,223.
Uchida, Teiji, 3,467,915.
Uchimaru, Kiyoshi; and Otani, Tetsuro, 3,423,632.
Uchimaru, Kiyoshi; and Tsuji, Tetsuo, 3,461,337.
Yamada, Kenichi, 3,475,554.
Yamamoto, Hiroshi; and Ikeda, Koichi, 3,442,993.
Yamamoto, Hiroshi; Ikeda, Koichi; and Minagawa, Katsuji, 3,468,752.
Yamamoto, Shinichiro; and Mito, Hideo, 3,472,999.
Yanagawa, Takayuki, 3,444,442.
Yasuda, Susumu; and Orui, Ryuzo, 3,445,714.
Yawata, Keiske; Shiraishi, Masamichi; and Shiba, Hiroshi, 3,431,144.
Nippon Engineering Co., Inc.: *See*—
Shindo, Shigenobu, 3,467,369.
Nippon Gakki Co., Ltd.: *See*—
Mochida, Yasunori; Kurokawa, Ikuji; Ishimura, Kazukiyo; and Sotome, Hiromi, 3,464,514.
Nishiura, Tomehichi; and Murayama, Niyoshi, 3,459,093.
Nippon Gakki Seizo Kabushiki Kaisha: *See*—
Akagi, Shoji, 3,443,464.
Anbo, Seisai, 3,474,698.
Horiuchi, Kotaro; and Takeshige, Akira, 3,425,707.
Kawabata, Yoshikazu; Uchida, Takeshi; and Suzuki, Masatoshi, 3,472,943.
Kondo, Masaru, 3,456,545.
Matsumoto, Yoshiyuki, 3,479,915.
Sotome, Hiromi, 3,483,946.
Suzuka, Tsuneo; and Noda, Haruhisa, 3,468,207.
Taguchi, Hanzo, 3,444,771.
Taguchi, Hanzo, 3,459,091.
Taguchi, Hanzo; and Suzuka, Tsuneo, 3,472,112.
Nippon Gohsei Kagaku Kogyo Kabushiki Kaisha: *See*—
Nakamura, Susumu; and Shibazaki, Tadashi, 3,477,976.
Nippon Gosei Kagaku Kogyo Kabushiki Kaisha: *See*—
Hasegawa, Noboru; Ishikawa, Nobuo; and Kondo, Susumu, 3,463,751.
Nippon Kakan Kabushiki Kaisha: *See*—
Iwashita, Katsumi; Yoshimura, Masasuke; Miyazaki, Seizaburo; and Tamaki, Kunio, 3,481,495.
Nippon Kayaku Company, Ltd.: *See*—
Yamaguchi, Goichi; and Takenaka, Shigeo, 3,454,630.
Yamaguchi, Goichi; and Takenaka, Shigeo, 3,471,556.
Nippon Kayaku Kabushiki Kaisha: *See*—
Otani, Sugio; Fukuoka, Yoshihiko; Igarashi, Bunjiro; and Sasaki, Kesao, 3,461,082.
Sakurai, Yoshiaki; Ishizawa, Teruo; Ishida, Shuichi; and Sekine, Bunzo, 3,449,342.
Yokogawa, Mutsuo; Asaka, Shigefumi; and Araki, Mataichi, 3,450,584.
Nippon Koatsu Denki Kabushiki Kaisha: *See*—
Takaoka, Shoji, 3,484,653.
Nippon Kogaku K.K.: *See*—
Fujii, Tatsuo, 3,461,783.
Fukuoka, Shigetada; and Kimura, Shuji, 3,470,803.
Higuchi, Takashi, 3,481,666.
Isshiki, Masaki, 3,455,225.
Kashiwase, Toshio, 3,465,662.
Katsuyama, Yoshihisa, 3,461,782.
Nakamura, Makoto, 3,474,715.
Noda, Seijiro; and Nakamura, Makoto, 3,451,322.
Ono, Shigeo; and Shimomura, Jun, 3,485,153.
Sato, Akihiko, 3,442,192.
Sato, Akihiko, 3,465,659.
Sato, Tikasi; Sato, Tai; Sato, Kenzo; and Sato, Tutomu, 3,424,518.
Sho, Koji, 3,442,194.
Takahashi, Minoru; and Ishiwata, Yukio, 3,485,156.
Tsuruoka, Tomio; and Shimomura, Jun, 3,478,663.
Yamada,Takeo, 3,432,922.
Yamada, Takeo, 3,450,016.
Yamada, Takeo, 3,485,154.
Yasuda, Akira, 3,450,463.
Nippon Kohkan Kabushiki Kaisha: *See*—
Nozawa, Masao; Sako, Kiyoshi; and Ueda, Hiroshi, 3,446,188.
Nippon Kokan Kabushiki Kaisha: *See*—
Ando, Ryo; Shimotsuma, Teruo; and Chihara, Kanichiro, 3,477,701.
Fujita, Makoto; and Katsura, Kanichiro, 3,469,829.
Kawawa, Takaho; and Okubo, Masuta, 3,452,973.

Kawawa, Takaho, 3,468,525.
Kubota, Hiroyuki; Mimino, Tohru; Fukuda, Yuh; Ishizu, Yoshio; and Nago, Toshio, 3,443,934.
Matsudo, Kazuo; Muroga, Osamu; and Hashimoto, Yukio, 3,453,858.
Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,470,073.
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakuni, Masahiko, 3,480,521.
Ozeki, Saburoji; Kimura, Kenji; Shimasaki, Soichi; Izuhara, Torao; Kadota, Osamu; and Sakurai, Kozi, 3,444,806.
Shimotsuma, Teruo; Sano, Kazuo; and Kimura, Takaaki, 3,458,134.
Shindo, Shigenobu, 3,467,369.
Yamagishi, Hidehisa; and Takeuchi, Masao, 3,484,347.

Nippon Kokuyu Tetsudo: *See—*
Ishizawa, Masahiko, 3,453,971.
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro, 3,425,359.

Nippon Oil and Fats Company Limited: *See—*
Ishida, Shiro; and Yoshida, Tokiyuki, 3,459,809.

Nippon Oil Company, Limited: *See—*
Matsuura, Kazuo; and Tsuruta, Teiji, 3,464,958.
Miyoshi, Mitsuji; Imai, Hirosuke; Otsuki, Yutaka; and Hara, Hajime, 3,483,176.
Ohmori, Tadashi; and Kuwata, Tsutomu, 3,424,782.

Nippon Piston Ring Company Limited: *See—*
Okamoto, Hideo, 3,456,624.
Sugahara, Eisuke, 3,467,397.

Nippon Radio Company Limited: *See—*
Koshizuka, Michio; Ohfuji, Naoji; and Sata, Shinetsu, 3,437,861.

Nippon Rayon Co., Ltd.: *See—*
Fujita, Shiro; and Maeda, Yutaka, 3,449,898.
Watanabe, Jun; Arakawa, Soji; and Fukuoka, Tokuji, 3,443,986.

Nippon Seal Co., Ltd.: *See—*
Tsuruzawa, Teruya, 3,421,171.

Nippon Seiko Kabushiki Kaisha: *See—*
Kan, Yoshiro, 3,467,395.
Okamoto, Kenjiro; and Okoshi, Hideo, 3,470,761.
Okamoto, Kenjiro, 3,479,902.

Nippon Sharyo Seizo Kabushiki Kaisha: *See—*
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro, 3,425,359.

Nippon Sheet Glass Co., Ltd.: *See—*
Itakura, Kiyoshi; and Takigawa, Hideaki, 3,450,518.
Itakura, Kiyoshi, 3,480,423.
Kita, Hideo; and Ito, Kunihiko, 3,442,636.
Kushihashi, Akira, 3,455,722.
Kushihashi, Akira; and Fujiwara, Kenji, 3,484,263.

Nippon Shinyaku Co., Ltd.: *See—*
Kusuda, Fuyuki; Murayama, Masao; Matsuo, Yoshiharu; Okumura, Hideo; and Tatewaki, Nobukiyo, 3,442,892.

Nippon Shiryo Kogyo Co., Ltd.: *See—*
Komai, Yoshiaki; Yoshino, Zenichi; Miyazaki, Yasunobu; Uematsu, Shigeru; and Mifune, Keiji, 3,446,664.

Nippon Shokubai Kagaku Kogyo Co., Ltd.: *See—*
Okubo, Tadashi; and Saotome, Minoru, 3,453,183.

Nippon Shokubai Kagaku Kogyo Kabushiki Kaisha: *See—*
Kurata, Naoji; Ohara, Takashi; and Oda, Kenzo, 3,475,488.
Kurata, Naoji; Matsumoto, Takehiko; Ohara, Takashi; and Oda, Kenzo, 3,487,109.

Nippon Soda Kabushiki Kaisha: *See—*
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa, 3,459,788.
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa, 3,448,195.
Noguchi, Teruhisa; Komoto, Keisuke; Uchiyama, Yoshio; and Kano, Saburo, 3,442,929.
Taniguchi, Kanji; Asada, Mitsuo; and Sakimoto, Reiji, 3,474,167.
Uebayashi, Yuzuru; Sakimoto, Reiji; Ishii, Keiichiro; Asada, Mitsuo; and Taniguchi, Takuzo, 3,427,385.

Nippon Telegraph and Telephone Public Corporation: *See—*
Ito, Giichi; Takamura, Masao; Kato, Katsuhiro; and Kikuchi, Hisaei, 3,431,519.
Komatsu, Ryosaku, 3,484,658.
Koyama, Jiro; Sumi, Masao; and Ohara, Seiji, 3,464,020.
Kuroyanagi, Noriyoshi; and Matsuura, Yoshihisa, 3,480,734.
Mizushima, Yoshihiko; and Okamoto, Yoshiharu, 3,469,117.
Nagatsu, Hiroshi; Mimura, Yoshiaki; Izumi, Hideo; and Masuda, Yoshihiro, 3,436,614.
Sato, Risaburo; and Iwata, Kansei, 3,443,030.
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki, 3,464,039.
Takamura, Masao; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisahide; and Mitsuhashi, Sadayuki, 3,487,344.
Terajima, Makoto, 3,420,756.
Tsuchiya, Shoji; and Nakagawa, Ichiro, 3,443,216.
Waku, Shigeru, 3,473,958.
Yamato, Junji; Tsukada, Keiichi; Kajiwara, Masaichi; and Ono, Masamichi, 3,479,462.

Nippon Toki Kabushiki Kaisha: *See—*
Makita, Seiichi, 3,431,006.
Matsushima, Isao, 3,426,402.
Matsushima, Isao, 3,462,810.

Nippon Yakin Kogyo Company Limited: *See—*
Kawahata, Masao; Yokota, Kozou; Fukase, Yukishige; and Katoh, Shoichi, 3,420,660.
Kawahata, Masao; Fukase, Yukishige; and Osozawa, Koichiro, 3,438,769.

Niquette, Reaman Paul, to Scientific Data Systems. Data gap predictor for magnetic tape units. 3,440,630, 4-22-69, Cl. 340-174.1

Nirenberg, Hans, to Telefonbau und Normalzeit G.m.b.H. Photoelectric control system for postage meters comprising a light reflecting surface inclined with respect to the plane of the mail to be imprinted. 3,450,887, 6-17-69, Cl. 250-219.

Nisbet, Lawrence W., Jr.: *See—*
Wentworth, Theodore O.; and Nisbet, Lawrence W., Jr.,3,471,558.

Nischik, Herbert: *See—*
v. Sturm, Ferdinand; Nischik, Herbert; and Weidlich, Erhard,3,471,336.

Nischk, Gunther: *See—*
Bahr, Ulrich; Suling, Carlhans; Nischk, Gunther; and Szita, Jeno,3,483,208.
Bodesheim, Ferdinand; Giessler, Wolfgang; and Nischk, Gunther,3,474,135.
Bodesheim, Ferdinand; Nawrath, Gunther; and Nischk, Gunther,3,454,535.
Holtschmidt, Hans; Nischk, Gunther; and Degener, Eberhart,3,467,695.
Kubitzek, Harry; Unger, Otto; Nawrath, Gunter; Reichle, Alfred; and Nischk, Gunther,3,477,899.
Radlmann, Eduard; Wolf, Gerhard Dieter; Wieden, Horst; and Nischk, Gunther,3,481,885.
Raichle, Karl; Bruhne, Friedrich; Prater, Klaus; Nischk, Gunther; and Andres, Karl-Heinz,3,467,619.
Rinkler, Heinrich; and Nischk, Gunther,3,484,479.
Rinkler, Heinrich; Bentz, Francis; and Nischk, Gunther,3,484,419.
Szita, Jeno; Bahr, Ulrich; Wieden, Horst; Marzolph, Herbert; and Nischk, Gunther,3,478,001.
Szita, Jeno; Rinkler, Heinrich; Marzolph, Herbert; and Nischk, Gunther,3,470,141.
Wieden, Horst; Bahr, Ulrich; and Nischk, Gunther,3,442,885.

Nisewanger, Carrol R.: *See—*
Boynton, William Wentworth; Campbell, James R.; and Nisewanger, Carrol R.,3,421,301.

Nishi, Akira: *See—*
Onishi, Isao; Nishi, Akira; and Kakizawa, Tadao,3,478,015.

Nishi, Junjiro, to Kabushiki Kaisha Takeda Seisakusho. Rotary joint union for heavy duty. 3,484,853, 12-16-69, Cl. 285-93.

Nishida, Masamitsu: *See—*
Ouchi, Hiromu; and Nishida, Masamitsu,3,425,944.
Ouchi, Horomu; and Nishida, Masamitsu,3,424,686.

Nishida, Shingo: *See—*
Hattori, Tadamichi; and Nishida, Shingo,3,439,995.

Nishida, Takeo: *See—*
Toyooka, Tadao; Ota, Shigekazu; and Nishida, Takeo,3,425,020.

Nishide, Motohiko: *See—*
Onodera, Norio; and Nishide, Motohiko,3,456,040.

Nishigaki, Shigeru: *See—*
Shimada, Satoshi; and Nishigaki, Shigeru,3,472,951.

Nishiguchi, Masahisa: *See—*
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa,3,440,105.

Nishihara, Tadashi: *See—*
Katsumura, Tatsuo; Kataoka, Hirohisa; Mizuno, Yutaka; Tsutsui, Tsutomu; and Nishihara, Tadashi,3,423,482.
Mizuno, Yutaka; Nishihara, Tadashi; Shioyama, Yutaka; Tsutsui, Tsutomu; and Murakami, Keiichi,3,466,311.

Nishihashi, Toru: *See—*
Amano, Minoru; Nishihashi, Toru; Shinada, Shozo; and Ito, Yushi,3,445,283.

Nishikata, Goro, to Numata, Yehan. Straight-moving micrometer. 3,469,320, 9-30-69, Cl. 33-166.

Nishikawa, Isamu: *See—*
Tanaka, Hisao; and Nishikawa, Isamu,3,441,632.

Nishikawa, Kiyoshi. Golf training apparatus. 3,473,810, 10-21-69, Cl. 273-192.

Nishikawa, Takao: *See—*
Kurokawa, Harutoshi; Machida, Junzo; Nishikawa, Takao; Hirata, Eiichi; and Hisaki, Hisao,3,454,348.

Nishikawa, Yoshimasa; and Hayami, Toshio, to Takeda Chemical Industries, Ltd. Preservation of semen. 3,472,735, 10-14-69, Cl. 195-1.8

Nishikiori, Yozo. Production of instant-type cream puffs. 3,441,418, 4-29o69, Cl. 99-86.
Nishimoto, Kan-ichi. Vertically reciprocating apparatus for carrying film hangers in a developing tank. 3,469,517, 9-30-69, Cl. 95-94.
Nishimoto, Kazuyuki; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Glass electrode compositions. 3,433,749, 3-18-69, Cl. 252-521.
Nishimoto, Kazuyuki; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Fluoride-containing glass electrode compositions. 3,451,830, 6-24-69, Cl. 106-52.
Nishimoto, Nobushige: *See*—
Takemoto, Tsunematsu; Ogawa, Shuntaro; and Nishimoto, Nobushige,3,433,814.
Nishimoto, Yoshihiko: *See*—
Atsukawa, Masumi; Nishimoto, Yoshihiko; and Matsumoto, Kazuhiro,3,485,014.
Nishimura, Atsumi. Feed roller assembly for planing and moulding machine. 3,486,543, 12-30-69, Cl. 144-250.
Nishimura, Haruki; Kinugasa, Hiroaki; and Onishi, Kumio, to Dainippon Pharmaceutical Co., Ltd. O-and/or S-nicotinoyl diacylthiamines and acylation process for preparing the same. 3,468,889, 9-23-69, Cl. 260-256.5
Nishimura, Hideaki, to Nantsune Tekko Kabushiki Kaisha (Nantsune Iron Works, Limited). Motor food cutter. 3,473,587, 10-21-69, Cl. 146-78.
Nishimura, Hironobu: *See*—
Hashimoto, Masao; Yamaguchi, Akira; and Nishimura, Hironobu,3,445,811.
Nishimura, Tadao: *See*—
Kaneko, Kyozo; Matsuzawa, Tadahiro; Okouchi, Hideo; Nishimura, Tadao; and Yamamoto, Yukimasa,3,466,338.
Nishimura, Takashi: *See*—
Goto, Tatsuo; and Nishimura, Takashi,3,441,831.
Nishimura, Takeo: *See*—
Douta, Kikuo; Matumaru, Haruo; and Nishimura, Takeo,3,430,334.
Nishimura, Takeo, to Hitachi, Ltd. Method of producing thin film integrated circuits. 3,423,821, 1-28-69, Cl. 29-571.
Nishimura, Tomohiro: *See*—
Hatano, Ikuo; Koyama, Koichiro; and Nishimura, Tomohiro,3,486,991.
Nishimura, Tsunehiko: *See*—
Sumi, Hiroji; Takahi, Yukiyoshi; Kondo, Yasuhiko; Hamamoto, Yoshio; and Nishimura, Tsunehiko,3,426,135.
Nishimura, Yoshihiro: *See*—
Maki, Shin; Nishimura, Yoshihiro; and Fujiki, Akihiko,3,482,653.
Nishino, Atsushi: *See*—
Amano, Yasuji; Kumano, Hiroshi; and Nishino, Atsushi,3,464,902.
Nishino, Keigo: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori,3,462,533.
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotaka,3,467,691.
Nishio, Daijiro: *See*—
Hayakawa, Yoshihide; Sakai, Takeo; and Nishio, Daijiro,3,482,980.
Nakajima, Yosuke; Nishio, Daijiro; and Watarai, Syu,3,429,707.
Nishio, Fumihiko; Nishio, Daijiro; Watarai, Syo; Hayakawa, Yoshihide; Kato, Kirotetu; and Udea, Hirozo,3,445,231.
Nishio, Fumihiko: *See*—
Kondo, Hideo; Tsuji, Nobuo; Nishio, Fumihiko; and Mizuki, Eiichi,3,449,123.
Nishio, Fumihiko; and Nagao, Kameji, to Fuji Shashin Film Kabushiki Kaisha. Photographic elements having gelatinous amphoteric surface active agents. 3,441,413, 4-29-69, Cl. 96-94.
Nishio, Fumihiko; Nakazawa, Yoshiyuki; and Nasu, Kintaro, to Fuji Shashin Film Kabushiki Kaisha. Photographic silver halide light-sensitive material. 3,433,640, 3-18-69, Cl. 96-107.
Nishio, Fumihiko; Nishio, Daijiro; Watarai, Syo; Hayakawa, Yoshihide; Kato, Kirotetu; and Udea, Hirozo, to Fuji Shashin Film Kabushiki Kaisha. Anti-halation layer for silver halide light- sensitive materials. 3,445,231, 5-20-69, Cl. 96-84.
Nishio, Fumihiko; Sugiyama, Mitsunori; Yamamoto, Nobuo; and Hayashi, Jun. Silver halide emulsions stabilized with compounds having a single aziridine group in the molecule. 3,484,242, 12-16-69, Cl. 96-109.
Yano, Yasushi; Ueno, Wataru; Nishio, Fumihiko; and Nakajima, Yosuke,3,457,076.
Nishioka, Hideya, to Fujitsu Limited. System for compensating time delay or skew between equidigitally correlated multitrack signals. 3,427,591, 2-11-69, Cl. 340-172.
Nishiura, Tomchichi; and Murayama, Niyoshi, to Nippon Gakki Co., Ltd., mesne. Drum head. 3,459,093, 8-5-69, Cl. 84-411.
Nishiwaki, Noboru, to United States of America, Air Force. Plummer blocks and manufacture methods thereof. 3,484,142, 12-16-69, Cl. 308-74.
Nishiwaki, Yoshiro: *See*—
Hayashi, Ichitaro; and Nishiwaki, Yoshiro,3,428,760.
Nishiyama, Michio: *See*—
Naito, Toru; and Nishiyama, Michio,3,451,386.
Nishiyama, Tsuneto: *See*—
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto,3,455,847.
Nishizaki, Shinji: *See*—
Shimizu, Makoto; Seki, Masao; and Nishizaki, Shinji,3,452,968.
Nishizawa, Yoshihiko; Nakagawa, Masataka; and Kimura, Akio, to Sumitomo Chemical Company, Ltd. Preparation of cyanophenols by dehydration of hydroxybenzaldoximes with phosgene. 3,444,236, 5-13-69, Cl. 260-465.
Nisiwaki, Koji: *See*—
Noda, Tamotsu; and Nisiwaki, Koji,3,475,604.
Niskanen, Axel B. Water cooled exhaust manifold for internal combustion engines. 3,485,040, 12-23-69, Cl. 60-30.
Niskanen, Clarence E., to Thiokol Chemical Corporation. Flexure pivots. 3,446,465, 5-27-69, Cl. 248-5.
Niskin, Shale J. Slide valve. 3,425,664, 2-4-69, Cl. 251-344.
Niskovskikh, Vitaly Maximovich: *See*—
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich,3,480,074.
Niskovskikh, Vitaly Maximovich; Kuruklis, Georgy Leonidovich; Gelfenbein, Evgeny Jukimovich; Tarlinsky, Isai Vulfovich; and Khorev, Viktor Nikolaevich. Method of running in the working walls of a mold. 3,447,588, 6-3-69, Cl. 164-73.
Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Kuznetsov, Leonid Georgievich; Niskovskikh, Vitaly Maximovich; and Rolnik, Savva Abramovich,3,480,075.
Nisley, Larry V., to Robertshaw Controls Company. Method and means for connecting fluid tubing to fluid devices. 3,470,901, 10-7-69, Cl. 137-360.
Nisol, Francis: *See*—
Verlaeten, Jean; and Nisol, Francis,3,440,011.
Nisper, Kenneth J.; and Lakanen, Robert, to Muskegon Piston Ring Company. Piston ring latch. 3,472,521, 10-14-69, Cl. 277-140.
Nissan Jidosha Kabushiki Kaisha: *See*—
Iijima, Tetsuya, 3,453,908.
Kakei, Jun, 3,435,711.
Maki, Shin; Nishimura, Yoshihiro; and Fujiki, Akihiko, 3,482,653.
Mizuno, Yukio; and Tanaka, Shigenori, 3,482,606.
Mori, Yoichi, 3,482,469.
Ohno, Kazuhiko; and Mori, Yoichi, 3,446,094.
Ohno, Kazuhiko; and Mori, Yoichi, 3,455,185.
Toshida, Shunichi; Suda, Hiroharu; and Suzuki, Kazuo, 3,457,800.
Yamada, Katsuo, 3,463,180.
Nissan Kagaku Kogyo Kabushiki Kaisha: *See*—
Abe, Kazuo; Kokubo, Ryo; Yamada, Yumizuru; Nagakura, Mizuhiko; and Shima, Koji, 3,432,274.
Kokubo, Ryo; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, 3,454,571.
Kokubo, Ryo; Takauwa, Yasuo; Koguchi, Mitsuhiro; and Nagakura, Mizuhiko, 3,484,440.
Shindo, Noboru; Ura, Yasukazu; Mori, Miyako; Hayakawa, Mitsuru; and Ueda, Kunihiro, 3,443,011.
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako, 3,472,932.
Takahashi, Nobuhiko; Kokubo, Ryo; Nagakura, Mizuhiko; Koguchi, Mitsuhiro; and Murata, Atsuo, 3,423,410.
Nissen Corporation: *See*—
Nissen, George P.; Stuckenschneider, Emil C.; and Kelly, Harlan J., 3,473,801.
Nissen, Edward K.: *See*—
Huber, Kenneth J.; Johnston, Jack F.; Nissen, Edward K.; and Pourie, De Witt R.,3,424,613.
Nissen, George P.; Stuckenschneider, Emil C.; and Kelly, Harlan J., to Nissen Corporation. Parallel bar conversion kit. 3,473,801, 10-21-69, Cl. 272-63.
Nissen, Warren I., to Gillette Company, The. Razor blade magazine. 3,421,219, 1-14-69, Cl. 30-346.5
Nissen, Warren I.; and Atwater, Robert M., to Gillette Company, The. Methods and apparatus for sharpening razor blades or similar cutting tools. 3,461,616, 8-19-69, Cl. 51-87.
Nisshin Sangyo Kabushiki Kaisha: *See*—
Yamada, Masakazu; and Komoda, Hayashi, 3,477,443.
Nissim, Samuel, to Bunker-Ramo Corporation, The, mesne. Content addressable memory. 3,438,009, 4-8-69, Cl. 340-174.
Nissim, Samuel, to Bunker-Ramo Corporation, The. Digital data equipment packaging organization. 3,447,037, 5-27-69, Cl. 317-101.

Nissim, Samuel; and Francis, John P., to Bunker-Ramo Corporation, The. Binary adder employing negative resistance diodes. 3,420,992, 17-69, Cl. 235-176.
Nissin Electric Co., Ltd.: *See—*
Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi, 3,484,866.
Nissin Sugar Mfg., Co., Ltd.: *See—*
Amano, Minoru; Nishihashi, Toru; Shinada, Shozo; and Ito, Yushi, 3,445,283.
Nisso Kako Co., Ltd.: *See—*
Orita, Michio; Yahagi, Masakichi; and Enomoto, Chiyouzi, 3,442,908.
Nisso Seiko Kabushiki Kaisha: *See—*
Morizumi, Ichiro; Sato, Yuichiro; and Matsukura, Kiyoshi, 3,423,250.
Nistler, Philip J.: *See—*
James, Raymond H.; Korkowski, Vincent J.; and Nistler, Philip J.,3,431,492.
Nitrochemie G.m.b.H.: *See—*
Nolte, Helmuth; Deckers, Gunther; and Rostock, Hans, 3,430,565.
Oversohl, Wilhelm; and Clausen, Fritz, 3,429,264.
Nitroglycerin Aktiebolaget: *See—*
Harms, Maximilian; and Wetterholm, Gustav Allan, 3,421,210.
Nitsch, Edward J.; and Stahl, John F., to Dietz, R. E., Company. Vehicle marker light. 3,484,598, 12-16-69, Cl. 240-7.1
Nitsch, Edward J.; and Tienken, Alfred G., to Dietz, R. E., Company. Vehicle lamp drain. 3,448,259, 6-3-69, Cl. 240-7.1
Nitsch, Edward J.: *See—*
Steltzer, Ernest R.; Nitsch, Edward J.; and Stube, Fred F.,3,443,085.
Nitsch, Ernst: *See—*
Quietensky, Herbert; and Nitsch, Ernst,3,471,329.
Nitsche, Siegfried: *See—*
Hittmair, Paul; Wohlfarth, Ernst; Nitsche, Siegfried; and Wick, Manfred,3,432,463.
Nitschke, Bruno: *See—*
Butzke, Fritz; Voelcker, Sven; and Nitschke, Bruno,3,449,515.
Nitschke, Norman C., to Permaglass, Inc. Glass sheet conveying and treating apparatus. 3,485,616, 12-23-69, Cl. 65-182.
Nitschke, Norman C.: *See—*
McMaster, Harold A.; and Nitschke, Norman C.,3,423,198.
McMaster, Harold A.; Nitschke, Norman C.; and Kawecka, John J.,3,468,645.
Nitta, Takahisa: *See—*
Ono, Minoru; and Nitta, Takahisa,3,472,703.
Nitta, Yoshihiro; Namekata, Masaya; Tomita, Eiichi; and Hirota, Yusaku, to Chugai Seiyzku K.K. Disaccharide polysulfate aluminium compound and method. 3,432,489, 3-11-69, Cl. 260-234.
Nittel, Fritz; Meckl, Heinz; Puschel, Walter; and Ulrich, Hans, to Agfa Aktiengesellschaft. Ultraviolet absorbing filters. 3,437,483, 4-8-69, Cl. 96-84.
Nitto Chemical Industrial Co., Ltd.: *See—*
Katsumura, Tatsuo; Kawakami, Yohei; and Tsuji, Hiroshi, 3,441,580.
Nitto Chemical Industry Co., Ltd.: *See—*
Doi, Shunichi; Tanaga, Hidenori; and Okumura, Masami, 3,426,070.
Onodera, Norio; and Nishide, Motohiko, 3,456,040.
Yamaguchi, Hachiro; and Nakano, Keiji, 3,442,902.
Nitto Electric Industrial Co., Ltd.: *See—*
Yamamoto, Yoshihiro; Yoshihara, Mitsuo; Ikeguchi, Takeru; and Sonoda, Sanenobu, 3,476,702.
Nitto Handle Works Co., Ltd.: *See—*
Yoshikawa, Seitaro, 3,481,218.
Nitto Kasei Co., Ltd.: *See—*
Ito, Hiroya; and Saisho, Takao, 3,424,775.
Kawakami, Yohei; Seki, Toshio; and Uenaka, Shigeyoshi, 3,450,668.
Mizuno, Yutaka; Nishihara, Tadashi; Shioyama, Yutaka; Tsutsui, Tsutomu; and Murakami, Keiichi, 3,466,311.
Suzuki, Kozaburo; Seki, Toshio; and Kawakami, Yohei, 3,433,763.
Suzuki, Reiichi; Takubo, Tadashi; Shioyama, Yutaka; Sakamoto, Kazuhiko; and Tahara, Tadasu, 3,471,539.
Suzuki, Reiichi; Shioyama, Yutaka; and Takubo, Tadashi, 3,475,472.
Tahara, Tadasu; Takubo, Tadashi; and Hachiya, Isao, 3,475,473.
Nitzsche, Siegfried: *See—*
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf,3,423,318.
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf,3,487,123.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,464,951.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,474,064.
Marwitz, Heinrich; Nitzsche, Siegfried; and Pirson, Ewald,3,481,899.
Pirson, Ewald; Roth, Michael; and Nitzsche, Siegfried,3,464,920.
Wegehaupt, Karl-Heinrich; Wick, Manfred; and Nitzsche, Siegfried,3,464,950.
Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst, to Wacker-Chemie G.m.b.H. Mixed organosiloxane polymers with esterified silica filler. 3,440,207, 4-22-69, Cl. 260-37.
Nitzsche, Siegfried; and Buchheit, Paul, to Wacker-Chemie G.m.b.H. Method for preparation of isopropenoxy silicon compounds. 3,453,307, 7-1-69, Cl. 260-448.8
Nitzsche, Siegfried; Pirson, Ewald Heinrich; and Roth, Michael, to Wacker-Chemie G.m.b.H. Water repellent masonry articles. 3,455,710, 7-15-69, Cl. 106-111.
Nitzsche, Siegfried; Riedle, Rudolf; and Hombergsmeier, Gerhard, to Wacker-Chemie G.m.b.H. Self-extinguishing organopolysiloxane foams. 3,428,580, 2-18-69, Cl. 260-2.5
Niven, William W., Jr., to Folger Coffee Company, The, mesne. Method of processing coffee. 3,458,320, 7-29-69, Cl. 99-71.
Nivison, David J.: *See—*
Peyser, Henry A.; and Nivison, David J.,3,468,030.
Niwa, Ichihiko: *See—*
Inoguchi, Toshio; Niwa, Ichihiko; and Nakazawa, Katsuro,3,433,602.
Nix, Hans. Braking arrangement. 3,438,097, 4-15-69, Cl. 24-123.
Nix, Lawrence A., Jr.; and Surkovich, Albin M., to Westinghouse Electric Corporation. PPI deflection amplifier utilizing energy recovery. 3,440,485, 4-22-69, Cl. 315-27.
Nix, Maurice George, to Associated Engineering Limited. Method and apparatus for locating a casting preparatory to machining thereof. 3,460,239, 8-12-69, Cl. 29-559.
Nixon, Bryan E.: *See—*
Egbert, William D.; and Nixon, Bryan E.,3,425,316.
Nixon, Charles L.: *See—*
Swett, James B.; and Nixon, Charles L.,3,476,297.
Nixon, Earl Hollis; and Wheeler, John Watson, to Western Electric Company, Incorporated. System for testing a unit at discrete frequencies utilizing a harmonic spectrum generator and measuring means enabled only at the discrete. 3,467,859, 9-16-69, Cl. 324-57.
Nixon, James; Wallace, Thomas J.; and Beerbower, Alan, to Esso Research and Engineering Company. Viscous emulsion of liquid hydrocarbon. 3,458,294, 7-29-69, Cl. 44-51.
Nixon, John I., deceased0 (by Nixon, Roberta Lois; administratrix), to Texaco Development Corporation. Mineral oil solvent dewaxing. 3,458,431, 7-29-69, Cl. 208-33.
Nixon, John I.: *See—*
Morris, Herbert C.; and Nixon, John I.,3,451,925.
Morris, Herbert C.; and Nixon, John I.,3,461,066.
Morris, Herbert C.; and Nixon, John I.,3,470,089.
Morris, Herbert C.; and Nixon, John I.,3,472,757.
Nixon, John L., to Pilkington Brothers Limited. Packaging of sheets of glass. 3,485,351, 12-23-69, Cl. 206-62.
Nixon, Roberta L.: *See—*
Morris, Herbert C.; and Nixon, John I.,3,461,066.
Morris, Herbert C.; and Nixon, John I.,3,451,925.
Morris, Herbert C.; and Nixon, John I.,3,470,089.
Morris, Herbert C.; and Nixon, John I.,3,472,757.
Nixon, John I.,3,458,431.
Nixon, William C., Jr.: *See—*
Standish, Norman W.; and Nixon, William C., Jr.,3,434,983.
Nixon, William Charles, to Hilger & Watts Limited. Electron emission control. 3,448,327, 6-3-69, Cl. 315-18.
Nixotene Corporation: *See—*
Baum, Leo; and Krueger, Robert E., 3,468,316.
Niyper, Kenneth J.: *See—*
Hamm, Douglas W.; and Niyper, Kenneth J.,3,442,519.
Nja, Olav, to Kvernelands Fabrikk A/S. Stone release on tractor plough. 3,486,566, 12-30-69, Cl. 172-265.
NMS Industries, Inc.: *See—*
Saiki, Koichiro, 3,481,267.
Noa, Fritz: *See—*
Hucks, Helmut; Noa, Fritz; and Dahl, Julius,3,460,435.
Noack, Christian, to VEB Kombinat Fortschritt. Self-propelled harvester. 3,483,680, 12-16-69, Cl. 56-21.
Noack, Christian: *See—*
Oliva, Klaus; Noack, Christian; and Lange, Gotthard,3,430,505.
Noack, Rolf, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic camera with electromagnetically controlled shutter. 3,456,569, 7-22-69, Cl. 95-63.
Noack, Rolf; and Kromer, Karl, to Veb Pentacon Dresden Kamera- und Kinowerke. Cameras. 3,450,017, 6-17-69, Cl. 95-42.
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang, to Veb Pentacon Dresden Kamera- und Kinowerke. Photographic shutter. 3,425,330, 2-4-69, Cl. 95-60.
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic shutter with spring-driven blade. 3,456,568, 7-22-69, Cl. 95-60.
Noack, Rolf: *See—*
Hahn, Werner; and Noack, Rolf,3,465,661.
Noah, Edward L.: *See—*
Ness, Anders B.; and Noah, Edward L.,3,440,866.
Noakes, Thomas E. Anti-friction seat for flow control. 3,474,831, 10-28-69, Cl. 138-43.

Noakes, Thomas E.; and Merchant, Leo F., to American Standard, Inc. Refrigerant expansion valve. 3,478,774, 11-18-69, Cl. 137-454.5
Nobata, Akio: *See—*
Iida, Takahiko; Nobata, Akio; Harasaki, Minoru; and Kumazawa, Hirashi,3,431,400.
Nobel, Fred I.: *See—*
Ostrow, Barnet D.; and Nobel, Fred I.,3,429,789.
Nobel, Joel J., to Graduate Pain Research Foundation. Wheeled emergency care vehicle. 3,428,383, 2-18-69, Cl. 312-209.
Nobel-Bozel: *See—*
Talet, Pierre; and Behar, Robert, 3,422,139.
Talet, Pierre, 3,427,122.
Talet, Pierre; and Gandon, Louis, 3,429,651.
Talet, Pierre, 3,444,124.
Nobile, Luciano, to Ledoga S.p.A. Process for solubilizing the hemicellulose of vegetable materials and for recovering the sugars from the solubilized hemicellulose. 3,479,248, 11-18-69, Cl. 162-16.
Nobile, Luciano; Condorelli, Emanuele; La Noce, Tullio; and Poma, Anteo, to Ledoga S.p.A. Process for the preparation of surfactants from hydroxylated organic compounds, fatty acid esters and alkylene oxides. 3,435,024, 3-25-69, Cl. 260-210.
Nobile, Luciano; Condorelli, Emanuele; and Tesei, Carlo, to Ledoga S.p.A. Insoluble films based on polyvinyl alcohol and process for the preparation thereof. 3,472,804, 10-14-69, Cl. 260-17.3
Nobile, Luciano; Conorelli, Emanuele; La Noce, Tullio; and Poma, Anteo, to Ledoga S.p.A. Surfactant compositions from active hydrogen organic compounds, fatty acid esters and alkylene oxides, and related manufacturing process. 3,451,936, 6-24-69, Cl. 252-152.
Nobile, Luciano; and Tesei, Carlo Alberto, to Ledoga S.p.A. Preparation of water soluble transparent films from dextrin and polyvinyl alcohol. 3,425,972, 2-4-69, Cl. 260-17.4
Nobili, Marco: *See—*
Cooney, Leo A.; and Nobili, Marco,3,425,222.
Nobilium Products, Inc.: *See—*
Prosen, Emil M., 3,434,526.
Prosen, Emil M., 3,470,935.
Nobis, Wilhelm, to Hellige, Fritz, & Co. G.m.b.H. Measuring circuit. 3,463,934, 8-26-69, Cl. 307-149.
Nobis, Wilhelm, to Hellige, Fritz, & Co. G.m.b.H. Automatic balancing A.C. bridge including resistive and reactive balancing elements connected across the input and to the output of the bridge. 3,464,004, 8-26-69, Cl. 324-57.
Noble, Bruce P. Dynamoelectric apparatus. 3,471,728, 10-7-69, Cl. 310-154.
Noble, David S., to Noble Electronics Inc. Synchronized control system for slow moving equipment. 3,441,744, 4-29-69, Cl. 307-40.
Noble, Earl W. Echo sounding apparatus. 3,437,986, 4-8-69, Cl. 340-3.
Noble Electronics Inc.: *See—*
Noble, David S., 3,441,744.
Noble, Gardiner A.; and Cummins, James M., to Chrysler Corporation. Tube tester for determining ignitron tube firing characteristics based upon average turn-on time and firing count. 3,460,027, 8-5-69, Cl. 324-26.
Noble Manufacturing Company: *See—*
Jarnagan, Max; and Sosalla, Harry L., 3,482,602.
Noble, Milton L.: *See—*
Brouillette, Joseph W., Jr.; and Noble, Milton L.,3,465,137.
Noble, Molly L. Bathtub spraymop. 3,453,059, 7-1-69, Cl. 401-289.
Noble, Paul H., to Fellows Gear Shaper Company, The. Hydraulic servo cylinder override. 3,472,125, 10-14-69, Cl. 91-47.
Noble, Thomas F.: *See—*
Fisher, Gerald E.; Noble, Thomas F.; and Williams, Virgel E.,3,428,788.
Noble, Wiley B. Thread form restoring tool. 3,464,072, 9-2-69, Cl. 10-1.
Noble, William A. Image projection apparatus. 3,482,911, 12-9-69, Cl. 353-98.
Nobs, Horst, to Ciba Limited. Process for the manufacture of shaped structures from regenerated cellulose transparently colored with organic dyestuffs. 3,472,670, 10-14-69, Cl. 106-164.
Nobuyuki, Asano: *See—*
Izumi, Masahiro; Shima, Hiroshi; Matsumura, Shigeru; and Nobuyuki, Asano,3,453,292.
Nocera, Joseph R.; and Berkowitz, David G., to Westinghouse Electric Corporation. Static battery monitor and voltage reference level switch therefor. 3,487,295, 12-30-69, Cl. 324-29.5
Nociti, John M.; and Riely, Phyllis E., to Fairchild Hiller Corporation. Waste collection bags. 3,471,871, 10-14-69, Cl. 4-142.
Nockleby, Raymond B. seed planter. 3,467,285, 9-16-69, Cl. 222-171.
Nocon, Theodor: *See—*
Martini, Paul; and Nocon, Theodor,3,473,475.
Noda, Etsunosuke: *See—*
Mima, Hiroyuki; Noda, Etsunosuke; and Banba, Hiroto,3,456,051.
Noda, Haruhisa: *See—*
Suzuka, Tsuneo; and Noda, Haruhisa,3,468,207.
Noda, Ikuya: *See—*
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi,3,459,538.
Noda, Kazuo: *See—*
Fukushima, Osamu; Nagoshi, Kazuo; and Noda, Kazuo,3,483,283.
Fukushima, Osamu; Noda, Kazuo; Kishida, Tamon; and Ochi, Toshiharu,3,483,015.
Matsubayashi, Kanji; and Noda, Kazuo,3,457,327.
Noda, Koji: *See—*
Ishikawa, Toshio; and Noda, Koji,3,442,589.
Noda, Seijiro; and Nakamura, Makoto, to Nippon Kogaku K.K. Single lens reflex camera for roll-film. 3,451,322, 6-24-69, Cl. 95-31.
Noda, Tamotsu; and Nisiwaki, Koji, to Hitachi, Ltd. Mass spectrometer having means for simultaneously detecting single focussing and double focussing mass spectra. 3,475,604, 10-28-69, Cl. 250-41.9
Noddings, Charles R.; and Cleary, Robert D., to Dow Chemical Company, The. Process for producing dimers of tertiary olefins. 3,432,571, 3-11-69, Cl. 260-683.15
Noddings, Charles R.; Cleary, Robert D.; and Gates, Ronald G., to Dow Chemical Company, The. Chromic ion containing clay catalyst and process for producing alcohols from olefins. 3,459,815, 8-5-69, Cl. 260-641.
Noddings, Charles R.; and Dietzler, Andrew J., to Dow Chemical Company, The. Dehydrogenation of alcohols to ketones. 3,420,887, 1-7-69, Cl. 260-596.
Noddings, Charles R.; and Kelly, James A., to Dow Chemical Company, The. Endothermic fuel system for air-breathing aircraft. 3,438,602, 4-15-69, Cl. 244-135.
Nodfelt, Nils Ingvar. Connection device for electric cables. 3,441,898, 4-29-69, Cl. 339-48.
Nodwell, John H.: *See—*
Nodwell, William Bruce; and Nodwell, John H.,3,447,619.
Nodwell, William Bruce; and Nodwell, John H., to Flex-Track Equipment Ltd., mesne. Transmission for four-tracked vehicles. 3,447,619, 6-3-69, Cl. 180-9.46
Noe, Edwin Henry: *See—*
Watkin, David Anthony; Noe, Edwin Henry; and Wade, Peter,3,476,058.
Noe, Harold C., to Kidde, Walter, & Company, Inc., mesne. Guide bar lapping mechanism for warp knitting machines. 3,469,420, 9-30-69, Cl. 66-86.
Noe, John B., to United States of America, Atomic Energy Commission. Transistor oscillator having interchangeable reactive networks. 3,475,698, 10-28-69, Cl. 331-108.
Noe, Joseph T.; Peppard, Donald M.; and McCabe, Bernard J., to Wyandotte Chemicals Corporation. Apparatus for detecting and indicating physiologic movement. 3,420,222, 1-7-69, Cl. 128-2.
Noe, Oskar; and Mohrien, Walter, to BWG Bergwetk-und Walzwerk-Maschinenbau GmbH. Working roll for a roller mill. 3,457,617, 7-29-69, Cl. 29-113.
Noe, Robert Joseph: *See—*
Cassiers, Paul Maria; Noe, Robert Joseph; and Van Engeland, Jozef Leonard,3,486,922.
Cassiers, Paul Maria; Van Engeland, Jozef Leonard; and Noe, Robert Joseph,3,425,829.
Noe, William B., to Melpar, Inc. Solid particulate metering system. 3,458,237, 7-29-69, Cl. 302-28.
Noe, William B., to Melpar, Inc. Alignment mechanism for stream supporting elements. 3,463,019, 8-26-69, Cl. 74-89.15
Noehren, Robert G. Apparatus for combination action in an organ. 3,422,718, 1-21-69, Cl. 84-345.
Noel, Darwin R.: *See—*
Casely, Robert W.; and Noel, Darwin R.,3,445,397.
Noel, Eugene M. Muffin grill apparatus. 3,483,813, 12-16-69, Cl. 99-355.
Noell, Godwin L.; Cygnor, John E.; and Sundberg, Jack G., to Evans, Chandler, Inc. Gear pump. 3,437,048, 4-8-69, Cl. 103-126.
Noell, Godwin L.; and Difford, Le Roy A., to Evans, Chandler, Inc. Gear pump movable elements having a plurality of sealing forces. 3,429,270, 2-25-69, Cl. 103-126.
Noerr, Donald G., Jr., to Ingersoll-Rand Company. Clutch for rotary hammer. 3,476,192, 11-4-69, Cl. 173-12.
Noerr, Donald G., Jr., to Ingersoll-Rand Company. Coupling arrangement. 3,476,418, 11-4-69, Cl. 287-108.
Noeske, Heinz; Feichtinger, Hans; and Linden, Hanswerner, to Ruhrchemie Aktiengesellschaft. Process for hardening a liquid epoxy resin with an acid hardener in presence of a carboxylic acid amide. 3,444,132, 5-13-69, Cl. 260-47.
Noetzel, Siegfried: *See—*
Gumboldt, Albert Gustav Martin; and Noetzel, Siegfried,3,477,997.
Nofer, Paul. Closure head for applying and securing caps to containers. 3,427,786, 2-18-69, Cl. 53-356.
Noffsinger, Charles A.: *See—*
Brotherton, Thomas K.; Knopf, Robert J.; Starcher, Paul S.; and Noffsinger, Charles A.,3,470,248.

Nofsinger, C. W., Company, The: *See—*
Spangler, Carl D., Jr.; and Price, Walter J., 3,442,066.
Nofzinger, Earl E.: *See—*
Galloway, George W.; and Nofzinger, Earl E.,3,440,710.
Nogaj, Alfred: *See—*
Szitz, Jeno; Nogaj, Alfred; and Marzolph, Herbert,3,470,060.
Nogami, Iwao, to Honeywell Inc. Flow blending control system. 3,438,385, 4-15-69, Cl. 137-101.19
Nogarede, Adrien. Circuit arrangement in an electronic watch employing a balance. 3,456,436, 7-22-69, Cl. 58-28.
Nogle, Thomas D., to Chrysler Corporation. Journal mounting for rotatable shaft. 3,485,540, 12-23-69, Cl. 308-9.
Nogle, Thomas D.; and Smith, Richard H., to Chrysler Corporation. Journal mounting for rotatable shaft. 3,485,538, 12-23-69, Cl. 308-9.
Noguchi, Hitoshi: *See—*
Yokoyama, Giichi; Muraoka, Toshio; and Noguchi, Hitoshi,3,474,334.
Noguchi Institute, The: *See—*
Noyori, Gentaro; Kurokawa, Hidemoto; and Watanabe, Teiko, 3,450,751.
Noguchi, Junpei: *See—*
Ohkubo, Kinji; and Noguchi, Junpei,3,444,809.
Noguchi, Kazuo. Sectional ski. 3,439,928, 4-22-69, Cl. 280-11.13
Noguchi, Masaaki; and Sakakibara, Shigeru, to Aisin Seiki Company Limited, and Toyota Jidosha Kogyo Kabushiki Kaisha. Planetary gearing. 3,453,907, 7-8-69, Cl. 74-803.
Noguchi, Masaaki; and Sumiyoshi, Masaharu, to Toyota Motor Co., Ltd. Transmission gear device using differential mechanism. 3,466,946, 9-16-69, Cl. 74-759.
Noguchi, Michio: *See—*
Chikamasa, Hiroshi; Hayashi, Nobuyuki; and Noguchi, Michio,3,470,625.
Noguchi, Sadao, to Mitsubishi Jukogyo Kabushiki Kaisha. Bottle filling apparatus. 3,480,049, 11-25-69, Cl. 141-141.
Noguchi, Teruhisa; Komoto, Keisuke; Uchiyama, Yoshio; and Kano, Saburo, to Nippon Soda Kabushiki Kaisha. N-cyanoalkyl haloacetamides. 3,442,929, 5-6-69, Cl. 260-465.4
Noguchi, Teruhisa: *See—*
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa,3,448,195.
Noguchi, Yoshitaka: *See—*
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,435,067.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka,3,439,020.
Noguchi, Yoshiyuki. Speed reduction device. 3,478,623, 11-18-69, Cl. 74-798.
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru, to Kyowa Hakko Kogyo Co., Ltd. Process for producing L-glutamine. 3,420,744, 1-7-69, Cl. 195-29.
Noguchi, Yuichi; Uno, Tetsuo; Kubota, Yoshita; and Hosoda, Hiroshi, to Kyowa Hakko Kogyo Co., Ltd. Process for producing L-glutamic acid. 3,436,308, 4-1-69, Cl. 195-29.
Noguchi, Yukihide: *See—*
Fujii, Kiyoshi; Asogawa, Tatuo; Yamaguchi, Yoshio; Fujii, Chikaaki; Noguchi, Yukihide; and Funakoshi, Yoshiro,3,483,831.
Noguera, Julio T.: *See—*
Haase, Frederick R.; and Noguera, Julio T.,3,473,170.
Nohe, David L.: *See—*
Beck, Charles K.; and Nohe, David L.,3,484,286.
Nohe, Heinz: *See—*
Platz, Rolf; Nohe, Heinz; and Schuler, Dominik,3,437,431.
Suter, Hubert; Nohe, Heinz; Beck, Fritz; and Hrubesch, Adolf,3,471,381.
Nohl, Egon, to Lewo, Chemische Fabrik GmbH, Firma. Foam cleaning. 3,447,754, 6-3-69, Cl. 239-343.
Nohl, Egon; and Nohl, Gertrud, to Rewo Chemische Fabrik GmbH. Apparatus for producing and discharging a foam of a liquid. 3,436,162, 4-1-69, Cl. 401-188.
Nohl, Gertrud: *See—*
Nohl, Egon; and Nohl, Gertrud,3,436,162.
Noiles, Douglas G., to Ivanhoe Research Corporation, mesne. Apparatus for manipulating a workpiece along an irregular contoured path through a workstation. 3,474,747, 10-28-69, Cl. 112-2.
Noirot, Michel; and Quatredeniers, Claude, to General Motors Corporation. Diaphragm pump rocker arms. 3,479,928, 11-25-69, Cl. 92-129.
Noissinger, Werner: *See—*
Vahs, Wilhelm A.; and Noissinger, Werner,3,427,632.
Nojima, Hiroshi: *See—*
Deguchi, Yoshio; Nojima, Hiroshi; and Kato, Naomichi,3,454,595.
Nojiri, Richard T.: *See—*
Steel, Robert N.; Butsch, Paul V.; and Nojiri, Richard T.,3,462,326.
Nola, Frank J.: *See—*
Berry, Eugene H.; and Nola, Frank J.,3,470,443.
Berry, Eugene H.; and Nola, Frank J.,3,470,446.
Nolan, Earl C. Ultrasonic type net weight load indicator for vehicles. 3,428,139, 2-18-69, Cl. 177-137.
Nolan, George J.: *See—*
Holm, Vernon C. F.; and Nolan, George J.,3,448,164.
Nolan, George J., to Phillips Petroleum Company. Dehydrogenation process and catalyst. 3,446,869, 5-27-69, Cl. 260-680.
Nolan, John Devereaux, to Permutit Company Limited, The. Terpolymer of vinyl acetate-vinyl tertiary acid esters and acrylate, moleate or fumarate ester. 3,446,767, 5-27-69, Cl. 260-29.6
Nolan, Melvin E.: *See—*
McLean, Robert H.; Nolan, Melvin E.; and Axsom, James F.,3,452,490.
Nolan, Richard D., to Advance Stamping Company. Thermo-actuator. 3,442,078, 5-6-69, Cl. 60-23.
Nolan, Roger William, to Lucas, Joseph, (Industries) Limited. Battery charging systems. 3,430,124, 2-25-69, Cl. 320-48.
Nolan, Roger William, to Lucas, Joseph, (Industries) Limited. Voltage regulators for use with generators having field windings. 3,453,527, 7-1-69, Cl. 322-28.
Nolan, Roger William; and Gilbert, Brian, to Lucas, Joseph (Industries) Limited. Arc suppression circuit for road vehicle battery charging system. 3,443,192, 5-6-69, Cl. 320-61.
Nolan, Roger William: *See—*
Wright, Maurice James; and Nolan, Roger William,3,479,575.
Nolan, Terence H., to Itek Corporation. Vibration isolation device. 3,450,379, 6-17-69, Cl. 248-358.
Nolan, Thomas A. Apparatus for applying bitumen and aggregate to a road surface. 3,483,804, 12-16-69, Cl. 94-44.
Nolan, Thomas J., III; and Smith, Charles F., to Dow Chemical Company, The. Inhibition of adherent scale accumulations. 3,467,192, 9-16-69, Cl. 166-279.
Nolan, William A., to Reynolds Metals Company. Thermal insulating apparatus and method of making same. 3,420,026, 1-7-69, Cl. 52-403.
Nolan, William A.: *See—*
Revell, Donald H.; and Nolan, William A.,3,441,995.
Noland, Gloyd R. Safety brakes. 3,426,870, 2-11-69, Cl. 188-29.
Noland, James Sterling; and Saxon, Robert, to Formica Corporation. Transparent blends of polyalkyl methacrylates with rubbery epichlorohydrin polymers. 3,475,519, 10-28-69, Cl. 260-901.
Noland, Jesse D. Trailer conversion kit. 3,436,087, 4-1-69, Cl. 280-8.
Noland, Richard D., to Air-O-Matics, Inc. Traveling purge head dust filter. 3,482,378, 12-9-69, Cl. 55-283.
Noland, Wayne B., to Woodford Manufacturing Company. Non freezable hydrant. 3,480,027, 11-25-69, Cl. 137-59.
Noland, Wayne B.: *See—*
Yoon, Young Z.; and Noland, Wayne B.,3,480,980.
Nold, Robert W.: *See—*
Koot, Nick; and Nold, Robert W.,3,433,531.
Nolde, Wolfgang, to Siemens Aktiengesellschaft. Semiconductor integrated transistor cascade for amplifying purposes. 3,421,103, 1-7-69, Cl. 330-28.
Nolen, Charles D. Polyesters, polyethers and polymethanes stabilized with bis(hydroxymethyl) phosphinic acid and carbodiimide. 3,450,669, 6-17-69, Cl. 260-45.9
Nolen, Doyle A.: *See—*
Cragg, Hoyt J.; and Nolen, Doyle A.,3,475,476.
Noles, Ronald C.; and Craig, Jimmie M., to United States of America, Navy. Method for collapsing an aerodynamic decelerating vehicle. 3,420,474, 1-7-69, Cl. 244-31.
Nolin, Beauchamp: *See—*
Streed, William R.; and Nolin, Beauchamp,3,425,236.
Nolin Manufacturing Company, Inc.: *See—*
Streed, William R.; and Nolin, Beauchamp, 3,425,236.
Nolin, Roger J.: *See—*
Russell, Fred J.; and Nolin, Roger J.,3,477,755.
Noll, A. Michael, to Bell Telephone Laboratories, Incorporated. Automatic peak selector. 3,420,955, 1-7-69, Cl. 179-1.
Noll, Charles A.; and La Salvia, Luciano J., to Betz Laboratories, Inc. Chemical feed methods and apparatus. 3,468,796, 9-23-69, Cl. 210-22.
Noll, George C., to Koehring Company. Slewing mechanism for cranes. 3,448,863, 6-10-69, Cl. 212-69.
Noll, James L.: *See—*
Klove, Edwin H., Jr.; and Noll, James L.,3,423,117.
Noll, Klaus Reinhold; Berg, Alex; Machleidt, Hans; Roethele, Werner; and Engelhardt, Gunther, to Boehringer Ingelheim G.m.b.H.10-[(N-lower alkyl-pyrrolidyl)-methylidene] and 10-(N-lower alkyl-piperidylidene) derivatives of 9,10-dihydro-9-anthrol. 3,470,190, 9-30-69, Cl. 260-294.7
Noll, Lawrence E.; and Farish, James F., to Westvaco Corporation. Dicyandiamide modified resin binders. 3,463,747, 8-26-69, Cl. 260-17.5
Noll, Melvin R.: *See—*
Jackowski, Charles S.; Jensen, Donald F.; Muller, Hans R.; Noll, Melvin R.; and Schaffer, Robert R.,3,466,610.
Noll, Raymond F.; and McCarthy, William J., to Goodrich, B. F., Company, The. Thioether-branched, mercaptan-terminated polymers. 3,449,301, 6-10-69, Cl. 260-79.

Noll, Robert F.: *See*—
Niedzielski, Albert; and Noll, Robert F.,3,428,058.
Noll, Stanley Darwin: *See*—
Park, Francis W.; Blough, Arthur K.; Noll, Stanley Darwin; Delfeld, William F.; Kraus, George I.; and Kraus, Robert,3,439,794.
Noll, Walter: *See*—
Golitz, Dietrich; Noll, Walter; Damm, Klaus; and Krauss, Walter,3,449,465.
Hoyer, Ernst; Meininger, Fritz; and Noll, Walter,3,461,111.
Nutzel, Karl; Noll, Walter; and Walaschewski, Engelbert,3,485,863.
Sattlegger, Hans; Simmler, Walter; Noll, Walter; and Niederprum, Hans,3,449,393.
Noller, Fred W.; Bingley, George W.; and Smith, Jerald T., to Massey-Ferguson Inc. Swing mechanism for backhoes. 3,452,882, 7-1-69, Cl. 212-66.
Noller, Hans-Georg: *See*—
Bachler, Werner G.; and Noller, Hans-Georg,3,437,261.
Nollet, Anthony R., to GCA Corporation. Gun sighting system. 3,438,305, 4-15-69, Cl. 89-41.
Nolt, Edwin B., to Sperry Rand Corporation. Hay baler. 3,426,672, 2-11-69, Cl. 100-4.
Nolt, Edwin B.; and Eby, Richard R., to Sperry Rand Corporation. Gear housing for tier assembly of baler. 3,448,681, 6-10-69, Cl. 100-22.
Nolt, Edwin B.: *See*—
Crane, Jack W.; and Nolt, Edwin B.,3,464,345.
Crane, Jack W.; Nolt, Edwin B.; and James, William E.,3,464,346.
Eby, Richard R.; and Nolt, Edwin B.,3,472,544.
Eby, Richard R.; and Nolt, Edwin B.,3,482,866.
Nolta, James P.; and Schubring, Norman W., to General Motors Corporation. Thin film ferroelectric device. 3,483,447, 12-9-69, Cl. 317-237.
Nolte, Albert C., Jr.: *See*—
Bauer, Kurt, 3,426,513.
Ludwig, Frederic G., 3,471,292.
Winik, Leon; and Doundoulakis, George, 3,469,026.
Nolte, Albert C., Jr.; and Collard, Allison C., to Elton Industries Corporation, The. Deceleration warning-indication system for motor vehicles. 3,448,434, 6-3-69, Cl. 340-71.
Nolte, Arthur C., to Simpson, Orville, Company, The. Cover hold-down clamp for screening machines. 3,433,357, 3-18-69, Cl. 209-372.
Nolte, Claude B., to Kingmann-White, Inc. Differential pressure-responsive device. 3,422,680, 1-21-69, Cl. 73-407.
Nolte, Helmuth; Deckers, Gunther; and Rostock, Hans, to Nitrochemic G.m.b.H. Molded explosive charge within a shell casing having an inner wall of absorbent material. 3,430,565, 3-4-69, Cl. 102-24.
Nolte, Irvin William. Electrical circuit tester for tractor trailer cable. 3,428,888, 2-18-69, Cl. 324-51.
Noltes, Jan Gerrit: *See*—
Overmars, Henricus Gerardus Josef; and Noltes, Jan Gerrit,3,458,585.
Noltes, Jan G., to International Lead Zinc Research Organization, Inc. Organo-zinc compounds and processes of making same. 3,461,147, 8-12-69, Cl. 260-429.9
Nolting, Hermann: *See*—
Locher, Edmund G.; Wyler, Eugen; and Nolting, Hermann,3,445,565.
Nolting, Jerry L.: *See*—
Goetchius, Ronald J.; and Nolting, Jerry L.,3,482,441.
Nolting, Jerry L., to Texaco Inc. Apparatus for measuring and controlling spark advance of internal combustion engine. 3,454,871, 7-8-69, Cl. 324-16.
Noltner, Gerhard: *See*—
List, Karl-Hermann; and Noltner, Gerhard,3,460,681.
Noly, Jean, to Societe Potain S.A. Lifting winches. 3,477,695, 11-11-69, Cl. 254-150.
Nolz, Klaus: *See*—
Bonsch, Gustav; and Nolz, Klaus,3,478,516.
Nomaguchi, Kanemasa: *See*—
Koga, Wataru; Abo, Masahiro; Yasuoka, Yoshio; Nozaki, Michio; and Nomaguchi, Kanemasa,3,444,112.
Nomarski, Georges, to Centre National de la Recherche Scientifique. Interferometry. 3,454,340, 7-8-69, Cl. 356-106.
Nomarski, Georges, to Centre National de la Recherche Scientifique. Optical instrument with aligned mask and non-phasing coated screen. 3,476,457, 11-4-69, Cl. 350-17.
Nomine, Gerard: *See*—
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto,3,449,382.
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto,3,478,062.
Bellet, Paul; Van Thuong, Truong; and Nomine, Gerard,3,471,464.
Martel, Jacques; Huynh, Chanh; Toromanoff, Edmond; and Nomine, Gerard,3,445,499.
Nomine, Gerard; and Bucourt, Robert, to Roussel-UCLAF. Method of inducing anti-androgenic activity. 3,458,632, 7-29-69, Cl. 424-241.
Nomine, Gerard; Bucourt, Robert; Pierdet, Andre; and Snozzi, Candido, to Roussel-UCLAF. 13β-η-Propyl-17α-ethynl-$\Delta^{4,9}$-gonadien-17β-ol- 3-one, its preparation and use. 3,444,297, 5-13-69, Cl. 424-243.
Nomine, Gerard; Penasse, Lucien; and Barthelemy, Pierre, to Roussel-UCLAF. Mono-N-phenethyl neomycin B. 3,423,506, 1-21-69, Cl. 424-181.
Nomm, Mihkel; and Bohlmark, Sven Arne. Bundling machines. 3,470,813, 10-7-69, Cl. 100-4.
Nomura, Hiroaki; Sugimoto, Keiichi; and Uno, Norihiro, to Takeda Chemical Industries, Ltd. Process for preparing purine derivatives. 3,427,315, 2-11-69, Cl. 260-252.
Nomura, Junichi: *See*—
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru,3,433,156.
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru,3,442,213.
Nomura, Katsuhiko; and Umemura, Sachio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Motor driven camera with switch actuating roller. 3,448,668, 6-10-69, Cl. 95-31.
Nomura, Katsuhiko: *See*—
Suzuki, Monoru; and Nomura, Katsuhiko,3,481,262.
Nomura, Keisaku, to Nippon Electric Company Limited. Pulse timer circuit. 3,469,116, 9-23-69, Cl. 307-273.
Nomura, Shunichi: *See*—
Aiso, Hiroshi; Nomura, Shunichi; and Takeuchi, Toshinobu,3,469,939.
Nomura, Tatsuo; Shimomura, Kunio; and Miyaji, Masayuki, to Kyowa Chemicals Kabushiki Kaisha. Process for the separation of the products derived from the hydrogenolysis of hexitols by plural stage vacuum, steam distillation at temperatures not exceeding 200° C. 3,481,836, 12-2-69, Cl. 203-38.
Non-Linear Systems, Inc.: *See*—
Warner, Robert T.; and Christy, Robert R., 3,440,537.
Non-Skid, Inc.: *See*—
Putt, Joseph W.; and Chamberlain, Lamar E., 3,482,617.
Nonaka, Hiroshi: *See*—
Yoshida, Hiroshi; Okabe, Hideo; Sasaki, Kenji; Nonaka, Hiroshi; Nakagawa, Kichizaemon; and Igarashi, Kiyoyuki,3,457,984.
Nonaka, Katsuhiko: *See*—
Ushioda, Tsunezo; Nonaka, Katsuhiko; Yasucara, Minoru; Sato, Katsuya; Ompo, Takeshi; and Ishibashi, Hiroaki,3,476,647.
Nonin, Mikhail Moiseevich: *See*—
Getselev, Zinovy Naumovich; Balakhontsev, Gennady Alexeevich; Cherepok, Gennady Vasilievich; Zinoviev, Vladimir Konstantinovich; Ershova, Antonida Alexeevna,; and Nonin, Mikhail Moiseevich,3,467,166.
Nonnecke, Ernst A. Ship hull construction. 3,455,263, 7-15-69, Cl. 114-57.
Nonnenmacher, Friedrich Karl; and Schafer, Rudolf, to Metallgesellschaft Aktiengesellschaft, and Thies, B., Spezialmaschinenfabrik. Screw conveyor. 3,457,989, 7-29-69, Cl. 165-87.
Nonnenmacher, Helmut; Appl, Max; Haug, Juergen; and Andrussow, Konstantin, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of pure phthalic anhydride from o-xylene. 3,431,284, 3-4-69, Cl. 260-346.4
Nonnenmacher, Helmut; Weitz, Hans-Martin; and Willersinn, Carl-Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separation of methacrylic acid and acrylic acid. 3,478,093, 11-11-69, Cl. 260-526.
Nonweiler, Richard A., to Lakeside Plastics Corporation. Composition for making coated expanded polystyrene foam. 3,457,205, 7-22-69, Cl. 260-5.5
Noon, Alonzo W., to Stanford Research Institute. Toner application apparatus. 3,461,843, 8-19-69, Cl. 118-637.
Noonan, Donald F.: *See*—
Rogers, Gilbert; and Noonan, Donald F.,3,443,048.
Noonan, Richard E.: *See*—
Doeden, Roland E.; and Noonan, Richard E.,3,439,422.
Noordermeer, Aart; Puister, Willem; and Wesselman, Petrus Geradus Johannes, to U.S. Philips Corporation. Method of producing compounds containing a double carbon-carbon bond. 3,475,506, 10-28-69, Cl. 260-666.
Noorlander, Daniel O. Air-vent for milking inflation. 3,476,085, 11-4-69, Cl. 119-14.36
Nooter Corporation: *See*—
Hicks, Harold E.; and Pohl, Bernard F., 3,429,782.
Hicks, Harold E.; and Hibbeler, Charles L., 3,474,651.
Meyer, John J., 3,443,306.
Meyer, John J., 3,464,802.
Woelfer, Charles G.; and Dohr, Albert D., 3,478,784.
Nopper, Willard N., to Cook, Loren, Company. Acoustical attenuators. 3,454,128, 7-8-69, Cl. 181-50.

Noranda Mines Limited: *See—*
Griffiths, Clifford H.; Sang, Harry M.; and Champness, Clifford H., 3,473,095.
Themelis, Nickolas J.; and Spira, Paul, 3,437,475.
Norberg, Gayle R., to Control Data Corporation. Asynchronous time-sharing of multi-carrier channels. 3,485,953, 12-23-69, Cl. 179-15.
Norbest Turkey Growers Association: *See—*
Keeley, Robert A., 3,455,703.
Norbisrath, Max, to Spezial-Papiermaschinenfabrik August Alfred Krupp. Apparatus for measuring and winding a given length of ribbon onto a spool. 3,477,657, 11-11-69, Cl. 242-56.
Norby, Harold A. Method of multiplex representation of sampled data. 3,440,346, 4-22-69, Cl. 178-67.
Norby, Thomas E., to Corning Glass Works. Method of manufacturing semiconductor devices. 3,486,951, 12-30-69, Cl. 148-188.
Norco, Inc.: *See—*
Betts, Robert E., 3,469,871.
Lehmann, Herbert G., 3,482,291.
Mc Carthy, John J., 3,486,206.
McCarthy, John J., 3,422,502.
McCarthy, John J., 3,452,403.
McCarthy, John J., 3,466,715.
McCarthy, John J., 3,466,965.
Metz, Joseph R., 3,430,382.
Metz, Joseph R., 3,442,541.
Metz, Joseph R., 3,452,404.
Metz, Joseph R., 3,474,506.
Norco Products, Incorporated: *See—*
Rosaen, Nils O., 3,448,751.
Norcon (Norris) Limited: *See—*
Wheeler, Kenneth J., 3,475,996.
Wheeler, Kenneth John; and Ward, Edward John, 3,474,828.
Norcross, Gerald W., to Interchemical Corporation. Novel sealing composition and method using the same. 3,440,195, 4-22-69, Cl. 260-28.5
Norcross, Harold W.: *See—*
Pfrank, James Francis; Kilgard, Walter W.; and Norcross, Harold W.,3,448,629.
Norcross, Inc.: *See—*
Mohr, Anne Scheu, 3,427,642.
Norcross, James E.: *See—*
Colinet, Rene D.; and Norcross, James E.,3,437,786.
Norcross, John C., to Vaughan & Bushnell Mfg., Co. Method of making and assembling a dead-blow hammerhead. 3,456,330, 7-22-69, Cl. 29-469.
Nord, Douglas B.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,473,216.
Nord, Eric T.; Rosen, Samuel R.; and Liptak, Richard M., to Nordson Corporation. Apparatus for dispensing beads of viscous liquids. 3,429,482, 2-25-69, Cl. 222-146.
Nord, Sven Gustav. Door for dishwasher. 3,421,525, 1-14-69, Cl. 134-100.
Nord-Aviation Societe Nationale de Constructions Aeronautiques: *See—*
Denis, Jean, 3,430,027.
Denis, Jean; and Darees, Michel, 3,487,195.
Frindel, Louis Jean-Marie, 3,476,908.
Havette, Claude; Lazareff, Michel; and Soulez-Lariviere, Jean, 3,447,741.
Jacob, Henri, 3,464,668.
Lam, Do Mau, 3,437,288.
Philippot, Rene; and Richard, Maurice, 3,443,848.
Poccard, Jacques, 3,478,802.
Rouyer, Georges; and Pilette, Michel, 3,458,684.
Nordac Limited: *See—*
Austin, James; and Ellis, John D., 3,439,475.
Nordahl, John G., to Weston Instruments, Inc. Linear voltage variable resistance networks. 3,428,884, 2-18-69, Cl. 323-19.
Nordahl, John G., to Weston Instruments, Inc. Frequency coincidence detector. 3,458,823, 7-29-69, Cl. 328-155.
Nordahl, John G.; and Kaczorowski, John, Jr., to Weston Instruments, Inc. Linear conductance switch. 3,434,041, 3-18-69, Cl. 323-74.
Nordberg Manufacturing Company: *See—*
Blix, Weltzin B., Jr., 3,482,779.
Bray, Frederick W., Jr., 3,486,387.
Foxx, Robert J.; and Krause, Edward H., Jr., 3,426,698.
Gasparac, Rudolph J.; and Szaj, Arnold P., 3,437,277.
Gasparac, Rudolph J.; and Peters, Helmut, 3,443,846.
Peters, Helmut; and Szaj, Arnold P., 3,420,457.
Saunders, Guy L., 3,431,034.
Nordberg, Martin E.: *See—*
Elmer, Thomas H.; and Nordberg, Martin E.,3,459,522.
Nordblad, Sven Sigurd, to Telefonaktiebolaget L M Ericsson. Transposed electric line, particularly for use in telecommunication systems. 3,441,654, 4-29-69, Cl. 174-33.
Nordeen, Melvin A. Pistol safe. 3,464,606, 9-2-69, Cl. 224-2.
Nordegren, Sven-Ake, to Alfa-Laval AB. Automatic pulsator. 3,448,756, 6-10-69, Cl. 137-104.
Norden, Alexander R., to Slater Electric Inc. Silent A.C. switch utilizing a coil spring coact- ing with abutment to provide a cushioned effect. 3,427,418, 2-11-69, Cl. 200-166.
Norden, Alexander R. Switching terminal blocks and assembly. 3,454,836, 7-8-69, Cl. 317-112.
Norden, Alexander R., to Slater Electric Inc. Electrical switch. 3,471,670, 10-7-69, Cl. 200-172.
Norden, Alexander R.; and Knecht, George W., to Murray Manufacturing Corporation. Elimination of arcing effects in circuit breakers. 3,467,799, 9-16-69, Cl. 200-147.
Norden, Alexander. Terminal-block assemblies and mounting rails therefor. 3,474,392, 10-21-69, Cl. 339-119.
Norden Laboratories, Inc.: *See—*
Knapp, William A., Jr., 3,422,182.
Kuhns, Charles R.; and Beckenhauer, William H., 3,435,112.
Nordgard, Carl Sigvard. System for biological purification of waste water, primarily sewage, and removal of nutritive salts from the purified waste water. 3,485,372, 12-23-69, Cl. 210-150.
Nordgren, Bo Gunnar. Method in rock blasting operations for marking out drill hole patterns. 3,431,049, 3-4-69, Cl. 353-121.
Nordgren, Brett M., to Hewlett-Packard Company. Regulated power supply. 3,437,828, 4-8-69, Cl. 307-61.
Nordgren, Kurt A.: *See—*
Alvang, Folke N.; and Nordgren, Kurt A.,3,446,697.
Nordh, Ulf Sune Ivar, to Associated Cargo Gear AB. Hatch cover. 3,430,675, 3-4-69, Cl. 160-188.
Nordholm, Herbert V., Jr., to United Aircraft Corporation. Redundant control method and apparatus. 3,482,486, 12-9-69, Cl. 91-411.
Nordin, Bengt Anders: *See—*
Lagercrantz, Bengt Ake; and Nordin, Bengt Anders,3,483,130.
Nordin, Ivan C.; and Parcell, Robert F., to Parke, Davis & Company. 2-Phenoxy-2-phenyl acetamides. 3,446,811, 5-27-69, Cl. 260-294.
Nordisk Droge- & Kemikalieforretning A/S: *See—*
Olesen, Irma, 3,459,179.
Nordisk Insulinlaboratorium: *See—*
Eldon, Knud E. H., 3,424,558.
Nordlander, Birger W., to Loctite Corporation. Anaerobic sealant composition containing monoacrylate esters. 3,435,012, 3-25-69, Cl. 260-88.3
Nordlie, Lawrence A., to Corhart Refractories Company, Inc. Protection of refractory bodies from thermal shock. 3,467,542, 9-16-69, Cl. 117-94.
Nordman, Adolph J., Jr.: *See—*
Scheel, John R.; and Nordman, Adolph J., Jr.,3,478,668.
Nordmark, Walter E.: *See—*
Barecki, Chester J.; Henrikson, Bror W.; and Nordmark, Walter E.,3,478,981.
Nordone, Louis F. Gas cleaning process and apparatus. 3,435,593, 4-1-69, Cl. 55-84.
Nordquist, Lawrence E.: *See—*
Garstang, William W.; and Nordquist, Lawrence E.,3,443,251.
Nordsiek, Karl-Heinz; and Brinkmann, Horst, to Chemische Werke Huls Aktiengesellschaft. High tear strength polybutadiene vulcanizates. 3,429,952, 2-25-69, Cl. 260-894.
Nordsiek, Karl-Heinz: *See—*
Binder, Gerhard; and Nordsiek, Karl-Heinz,3,476,721.
Nordson Corporation: *See—*
Nord, Eric T.; Rosen, Samuel R.; and Liptak, Richard M., 3,429,482.
Nordstedt, Hans Josef; and Delin, Lars Folke, to Aktiebolaget Hakanssons Industrier. Sanitary electric dry closet. 3,458,873, 8-5-69, Cl. 4-131.
Nordstedt, Hans Josef; and Delin, Lars Folke, to Hakanssons, AB, Industries. Device for elimination of unpleasant smell at electric closets. 3,486,174, 12-30-69, Cl. 4-131.
Nordstrand, Leif R., to Mo Och Domsjo Aktiebolag. Defibrator. 3,423,796, 1-28-69, Cl. 19-156.3
Nordstrom, Arnold B.: *See—*
Jensen, Richard H.; and Nordstrom, Arnold B.,3,480,239.
Nordstrom, Duane M., to Longview Fibre Company. Arc top handhole cartons. 3,464,619, 9-2-69, Cl. 229-52.
Nordstrom, John David, to Ashland Oil & Refining Company. Modified carbamate ester containing polymers. 3,464,938, 9-2-69, Cl. 260-21.
Nordstrom, John David, to Ashland Oil & Refining Company. Novel monomers and polymers. 3,479,328, 11-18-69, Cl. 260-86.1
Nordstrom, John D., to Ashland Oil & Refining Company. Aldehyde-modified carbamates. 3,424,724, 1-28-69, Cl. 260-70.
Nordstrom, Lars E., to Superior Pet Products, Inc. Method of preparing rawhide. 3,450,483, 6-17-69, Cl. 8-111.
Nordstrom, Sigurd Andrew Mauritz, to Aktiebolaget Scania-Vabis. Control system for motor vehicles clutches. 3,448,842, 6-10-69, Cl. 192-91.
Nordt, Gunter Oskar, to Schroeder, H., & Co. Method and apparatus for protecting a pump from flow rate overloads. 3,464,440, 9-2-69, Cl. 137-529.

Nordt, Herbert: *See—*
Bormann, Heinrich; and Nordt, Herbert,3,445,525.
Schnegg, Robert; Pelousek, Herbert; Dippelhofer, Robert; Nordt, Herbert; and Dortmann, Heinz-Adolf,3,449,297.
Nored, Donald L.: *See—*
Gregory, John W.; and Nored, Donald L.,3,460,759.
Norelius, Einar, to Aktiebolaget Svenska Flaktfabriken. Device for governing the pressure or quantity of a flowing gaseous medium. 3,444,894, 5-20-69, Cl. 137-625.28
Norell, John R., to Phillips Petroleum Company. Carboxylic acid esters derived from 1,2-bis- (3-cyclohexen-1-YL)-ethylene and derivatives thereof. 3,433,828, 3-18-69, Cl. 260-487.
Norell, John R., to Phillips Petroleum Company. Sulfoalkylation of enamines. 3,479,362, 11-18-69, Cl. 260-293.4
Norell, John R., to Phillips Petroleum Company. Separation of lactams and cycloalkanone oximes. 3,484,434, 12-16-69, Cl. 260-239.3
Norem, Philip C.: *See—*
Speeth, Sheridan D.; and Norem, Philip C.,3,480,912.
Noren, Don W., to Litton Precision Products, Inc. Method of making a high temperature, high vacuum piezoelectric motor mechanism. 3,481,014, 12-2-69, Cl. 29-25.35
Noren, Hilmer K., to United Aircraft Corporation. Turbine vane retention. 3,423,071, 1-21-69, Cl. 253-78.
Noren, Lars-Olof: *See—*
Avsan, Oleg; Noren, Lars-Olof; Sparrendahl, Gunnar Erik William; and Svensson, Ake Bertil Fredrik,3,475,732.
Noren, Oscar B., to Parke, Davis & Company. Machine for opening eggs to permit removal of viral products therefrom. 3,470,925, 10-7-69, Cl. 146-2.
Noren, Oscar B., to Parke, Davis & Company. Apparatus for harvesting liquid viral products from eggs. 3,486,982, 12-30-69, Cl. 195-127.
Noren, Tore H. Sectional oval-shaped table for endless conveyor for dishwasher. 3,447,491, 6-3-69, Cl. 108-64.
Noren, Tore H., to Stereo Dishwashing Machine Manufacturing Company. Clean-out and sealing cap. 3,457,958, 7-29-69, Cl. 138-89.
Norfin, Inc.: *See—*
Snellman, Donald L.; and Keeler, Jack Daniel, 3,420,517.
Norfleet, Glenn D., to United States of America, Air Force. Device to increase uncontaminated run time of a reflected shock tunnel. 3,431,777, 3-11-69, Cl. 73-147.
Norgaard, Jette: *See—*
Petersen, Povl Viggo; Lassen, Niels; Norgaard, Jette; and Huld, Torben,3,467,675.
Norgord, John D.: *See—*
Fischer, William G.; Norgord, John D.; and Wilson, Jack,3,455,606.
Norgren, C. A., Co.: *See—*
Hoffman, Robert K., 3,447,562.
Norgren, Duane U., to United States of America, Atomic Energy Commission. Method and apparatus for determining image asymmetry in optical lenses. 3,480,366, 11-25-69, Cl. 356-124.
Norgren, Edwin A.: *See—*
Hoffman, Paul R.; Disney, Morton F., Jr.; Norgren, Edwin A.; and Cornell, William D.,3,484,107.
Norheim, Ray H., Jr. Apparatus for simulating free fall through air. 3,484,953, 12-23-69, Cl. 35-29.
Norick, William B.: *See—*
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.
Noriega, Emilio L. Air brake pedal. 3,481,216, 12-2-69, Cl. 74-478.
Norikane, Kiyoshi: *See—*
Hahn, Edward E.; Koeller, Erick H.; and Norikane, Kiyoshi,3,457,779.
Norley, Ronald R., to Radio Corporation of America. Time switch controlled energizing circuit for automatic degaussing apparatus. 3,433,993, 3-18-69, Cl. 315-8.
Norma-Hoffmann Bearings Company: *See—*
Moore, Richard F., 3,463,564.
Norman, Donald O.; and Hyatt, Marx, to Skykomish Corporation, mesne. Prefabricated fire-resistant door framing assembly. 3,473,265, 10-21-69, Cl. 49-504.
Norman, Eugene, 34% to McVaugh, Charles E., 22% to Kohnen, David P. 10% to Beinkemper, Arthur H. Electronic typing machine and transfer tube therefor. 3,463,884, 8-26-69, Cl. 178-30.
Norman, Francis A. Vertical lift aircraft. 3,437,290, 4-8-69, Cl. 244-23.
Norman, George E., Jr., to Burlington Industries, Inc. Pile fabric. 3,422,615, 1-21-69, Cl. 57-140.
Norman, George R.: *See—*
Le Suer, William M.; and Norman, George R.,3,448,048.
Le Suer, William M.; and Norman, George R.,3,454,607.
LeSuer, William M.; and Norman, George R.,3,471,403.
Norman, George R.; and Le Suer, William M., to Lubrizol Corporation, The. Process which comprises reacting a carboxylic intermediate with an amine. 3,444,170, 5-13-69, Cl. 260-268.
Norman, Howard W.: *See—*
Benedict, Theodore S.; and Norman, Howard W.,3,447,902.
Norman, Jacob J., to Statham Instruments, Inc. Resistive bridge calibration circuit. 3,450,978, 6-17-69, Cl. 323-17.
Norman, James Lee, Jr.: *See—*
Lintelman, Arthur H.; Le Bus, Jake H.; and Norman, James Lee, Jr.,3,454,870.
Norman, Joe H.; and McLelland, Donald R., to Esso Production Research Company. Submersible electric well pump operation. 3,474,737, 10-28-69, Cl. 103-219.
Norman, John D., Jr., to Perfection Plastics, Inc. Tape reel container. 3,469,681, 9-30-69, Cl. 206-52.
Norman, Reini J.: *See—*
McCarthy, Thomas; Meagher, Philip F.; and Norman, Reini J.,3,460,091.
Norman, Robert H.; and Stephenson, Homer E., to Philco-Ford Corporation, mesne. Shift register employing insulated gate field effect transistors. 3,454,785, 7-8-69, Cl. 307-221.
Norman, Robert S.: *See—*
Gordon, William D.; and Norman, Robert S.,3,451,861.
Loh, Jack C.; and Norman, Robert S.,3,439,261.
Norman, Sivert, to Allmanna Svenska Elektriska Aktiebolaget. Tap changer for transformers with elongated switch-over contact. 3,462,562, 8-19-69, Cl. 200-11.
Norman, Vello: *See—*
Keith, Charles H., II; Norman, Vello; and Bates, William W., Jr.,3,460,543.
Normandin, Camille. Racing game with power accumulating means. 3,432,167, 3-11-69, Cl. 273-86.
Normandin, Marcel H., to Diemakers Limited. Device for inverting reversed articles. 3,451,524, 6-24-69, Cl. 198-33.
Normando, Neil J.; and Pierce, Willis C., Jr., to Air Reduction Company, Incorporated. Arc welding. 3,475,586, 10-28-69, Cl. 219-131.
Normant, Henri Marie, to Rhone-Poulenc S.A. Preparation of phosphonamides. 3,478,095, 11-11-69, Cl. 260-551.
Normbau Maschinenfabrik GmbH & Co.: *See—*
Frauendorf, Manfred, 3,480,188.
Normington, Peter J. C.: *See—*
Mulford, Charles O., Jr.; and Normington, Peter J. C.,3,461,323.
Noro, Hiromitsu; and Kashikura, Hisae, to Hayashi Denko Kabushiki-Kaisha. Photoelectric area measuring apparatus for irregular-shaped plane objects utilizing digital techniques. 3,484,615, 12-16-69, Cl. 250-219.
Noro, Hiroo: *See—*
Imai, Kazutami; Tano, Tatsuo; and Noro, Hiroo,3,433,629.
Noronha, Leonardo Gastao; and Watling, Norman Derick, to Electronic Associates, Inc. Analogue computers for least-cost ostimization. 3,443,078, 5-6-69, Cl. 235-193.
Norrie, Robert C.; and Reynolds, Sydney H., to Pacific Car and Foundry Company. Dual-purpose single-axle wheeled vehicle for use in tractor-trailer rigs. 3,484,852, 12-16-69, Cl. 280-476.
Norrie, Robert C.; and Turvill, Paul A., to Pacific Car and Foundry Company. Resilient midship drive-line bearing. 3,466,104, 9-9-69, Cl. 308-184.
Norris, Alan H.: *See—*
Brouwer, Charles W.; and Norris, Alan H.,3,434,673.
Norris, Edward O. Magnetic game apparatus or the like. 3,425,694, 2-4-69, Cl. 273-101.
Norris, Edward O. Method for recovering metals from sea water. 3,436,213, 4-1-69, Cl. 75-101.
Norris, Edward O. Recovery of metal values from sea water environments. 3,474,015, 10-21-69, Cl. 204-151.
Norris, Edward O. Process for deriving precious metal values from sea water environments. 3,476,663, 11-4-69, Cl. 204-151.
Norris Filters Limited: *See—*
Bunyard, Alan Donald; Norris, Kenneth William; and Lucas, Alan Hubert, 3,473,668.
Norris, Frank A., to Singer-General Precision, Inc. Piezoelectric force transducer. 3,479,536, 11-18-69, Cl. 310-8.5
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian, to Imperial Chemical Industries Limited. Hexahydro-isoindolinone lactones. 3,457,274, 7-22-69, Cl. 260-325.
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian, to Imperial Chemical Industries Limited. Process for obtaining antibiotic products by cultivating helminthosporium dematioideum. 3,464,891, 9-2-69, Cl. 195-81.
Norris Industries, Inc.: *See—*
Haessler, Walter M., 3,463,233.
Macartney, Bruce J., 3,422,904.
Russell, Fred J.; Armstrong, Richard L.; and Spinuzzi, Sam J., 3,434,752.
Russell, Fred J.; and Solovieff, George B., 3,449,789.
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W., 3,459,448.
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L., 3,467,429.
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W., 3,469,876.

Norris, Kenneth William: *See—*
Bunyard, Alan Donald; Norris, Kenneth William; and Lucas, Alan Hubert,3,473,668.
Norris, Lyell Bayne, Jr.: *See—*
Shreve, Arthur L., III; Norris, Lyell Bayne, Jr.; and Beichler, Robert W.,3,481,453.
Norris, Malcolm Owen: *See—*
Ranby, Peter Whitten; and Norris, Malcolm Owen,3,454,830.
Norris, Richard J., to United States of America, Army. Plastic foam mandrel for electroforming. 3,464,898, 9-2-69, Cl. 204-9.
Norris, Rollin H., to General Electric Company. Cooling ducts for field coils. 3,463,952, 8-26-69, Cl. 310-58.
Norristown Rug Manufacturing Company: *See—*
Logrippo, James, 3,421,405.
Norse Development Corporation: *See—*
Eriksson, Carl A., 3,425,659.
Norsk Hydro-Elektrisk Kvaelslofaktieselskab: *See—*
Solheim, Peder Ragnvald, 3,471,057.
Norstedt, Gustav H.: *See—*
Piffath, Rodney S.; and Norstedt, Gustav H.,3,472,599.
Norstedt, Gustave H.: *See—*
Piffath, Rodney S.; and Norstedt, Gustave H.,3,471,246.
Norstel and Templewood Hawksley Ltd.: *See—*
Porteous, Ian K., 3,464,917.
Norstrud, Iven R.; and Threlkeld, John H., to Britt Tech Corporation. Pressure actuated valve. 3,446,238, 5-27-69, Cl. 137-469.
Norsworthy, Keith Harvey, to Boeing Company, The. Time correlation computers. 3,428,794, 2-18-69, Cl. 235-181.
North, Alfred E.: *See—*
Gurr, Frank K., 3,470,689.
North American Aluminum Corporation: *See—*
Formsma, Gerald R.; and Gaspar, Louis G., 3,464,870.
Griffith, Ross T., 3,441,123.
Henebry, John P.; and Stineback, Earl E., 3,482,874.
North American Clutch Corporation: *See—*
Dallman, Robert J.; and Haag, Anthony L., 3,461,994.
North American Corporation: *See—*
Hollenbeck, Clifford M.; and Kochorosky, Ned W., 3,446,707.
Hollenbeck, Clifford M.; and Anderson, Robert E., 3,446,708.
North American Philips Company, Inc.: *See—*
Ahsmann, Gerardus Josephus Marie; Meyer, Hans Jachim Gustav; and Van der Laarse, Jan Willem, 3,439,209.
Albarda, Scato, 3,422,312.
Andrew, Derek, 3,427,449.
Appel, Arne, 3,421,672.
Auphan Michel; and Perilhou, Jean, 3,446,073.
Backers, Franciscus Theodorus; and Wessels, Johannes Hendrik, 3,432,614.
Bakhuizen, Arie Johannes Cornelis, 3,426,225.
Barten, Piet Gerard Joseph, 3,439,207.
Bathelt, Robert Richard; and Panis, Constantius Johannes Waltherus, 3,422,220.
Beekman, Henricus Ernest, 3,437,947.
Beer, Andrew Francis, 3,436,623.
Berghout, Cornelis Willem; Hokkeling, Pieter; and Luteijn, Anthonie Izaak, 3,421,207.
Boekhorst, Antonius, 3,435,279.
Bollee, Boudewijn, 3,433,981.
Bollee, Boudewijn, 3,436,630.
Bongenaar, Willem; Gieles, Joannes Paulus Maria; and Slob, Arie, 3,433,978.
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C., 3,432,913.
Daniels, Henricus Petrus Cornelis; and Botden, Theodoor Peter Johannes, 3,430,331.
de Boek, Evert Jan, 3,445,215.
De Gier, Johannes, 3,422,298.
de Jongh, Wilhelmus Kare, 3,439,163.
De Koning, Cornelis, 3,422,367.
De Lange, Herman Kasper Adriaan; and Pollaschek, Viktor, 3,424,965.
de Ruiter, Jacob Willem; and Willemstein, Anton, 3,436,465.
Dean, Ronald John, 3,435,514.
Descher, Heinz, 3,423,715.
Diemer, Gesinus; and van der Maesen, Felix, 3,436,619.
Diemer, Gesinus; and van der Maesen, Felix, 3,436,620.
Dijken, Reinder Hendrik; Jager, Jolle; and Krikke, Minne, 3,432,701.
Dijkstra, Rinse; and Pasman, Pieter Hans, 3,428,601.
Dombacher, Wolf, 3,424,871.
du Pre, Frits Karel, 3,431,788.
Dupeux, Cyprien Jean; and Belaieff, James, 3,435,639.
Eibensteiner, Walter, 3,434,725.
Fox, Alan John; and Smith, Norman William White, 3,439,167.
Foxell, Clive Arthur Peirson; and Summers, John Gilbert, 3,443,169.
Frick, German, 3,434,055.
Geluk, Hendrik Willem, 3,433,837.
Gie, Ong Tjing; Krijtenburg, Gerben Sjoerd; and Nijhof, Berend Jan, 3,428,416.
Grimmeiss, Hermann Georg, 3,430,050.
Haaijman, Pieter Willem; Wijnen, Marinus Dirk; and Hengst, Johannes Hubertus Theodorus, 3,434,886.
Harrick, Nicolas J., 3,431,411.
Harrick, Nicolas J.; and Turner, Arthur F., 3,436,159.
Hart, Paul Anton Herman, 3,434,071.
Heijne, Leopold; and Vink, Adrianus Teunis, 3,426,597.
Hilbourne, Robert Arthur, 3,430,112.
Holtwijk, Theodoor, 3,432,832.
Hooghordel, Rijk; and Moggre, Anthonie Jannis, 3,441,788.
Hoppen, Johannes, 3,432,103.
Houtman, Johannes Paulus Willem, 3,433,053.
Hughes, Ray C.; and Mavrodineanu, Radu, 3,424,533.
Hunter, Henry Douglas; and Owen, Alfred Kennedy, 3,428,307.
Jager, Lothar, 3,441,283.
Janssen, Peter Johannes Hubertus, 3,444,452.
Klein, Gerrit, 3,430,161.
Klein, Thomas, 3,436,279.
Knott, Ralph David; and Bergman, Gerald David, 3,443,171.
Kok, Pieter W., 3,424,901.
Koopman, Harmannus, 3,429,919.
Krayenbrink, Cornelis J., 3,443,203.
Krugers, Johan Felx Jozef, 3,424,559.
Lankreijer, Willem, 3,448,407.
Lefranc, Marcel, 3,431,750.
Legoux, Rene, 3,427,088.
Lundin, Seth Johan Ronald, 3,422,254.
Mackintosh, Ian William, 3,430,086.
Marechal, Guy N. L. J., 3,433,976.
Milch, Alfred; Lalak, Joseph J.; and Ahlert, Richard H., 3,438,118.
Moed, Hendrik Durk; and Paerels, Gerard Bernard, 3,420,853.
Moed, Hendrik Durk; Claasen, Volkert; and van Dijk, Jan, 3,444,210.
Naastepad, Pieter Aarat, 3,432,369.
Newman, Peter Colin, 3,436,625.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, 3,422,122.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, 3,437,675.
Renelt, Gerhard, 3,430,037.
Rietdijk, Johan Adriaan, 3,427,817.
Rietdijk, Johan Adriaan, 3,434,298.
Schagen, Pieter; and Stark, Alexander, 3,444,322.
Schmidt, Siegfried, 3,428,782.
Schoot, Cornelis Johannes; and Ponjee, Johannes Jacobus, 3,429,790.
Schoot, Cornelis Johannes, 3,444,196.
Smeulers, Wouter; and Van Hattum, Johannes Simon Albert, 3,426,243.
Smeulers, Wouter; and Janssen, Peter Johannes Hubertus, 3,434,004.
Speciale, Rosario Aldo, 3,427,557.
Spielberg, Nathan, 3,427,451.
Spielberg, Nathan; and Ladell, Joshua, 3,439,164.
Stok, Filippus Leon, 3,430,098.
Swaluw, Harry Leman, 3,433,980.
Thees, Richard, 3,433,987.
Tummers, Leonard Johan; and van Overbeek, Adrianus Johannes Wilhelmus Marie, 3,459,967.
van den Bussche, Willem, 3,432,084.
Van Der Burgt, Cornelis Martinus, 3,436,005.
van der Hilst, Jan, 3,431,617.
van der Valk, Kees, 3,426,278.
Van Der Voo, Bastiaan, 3,435,155.
Van Donselaar, Wilhelmus Hendrikus, 3,436,581.
Van Doorn, Willem, 3,435,361.
van Kessel, Theodorus Jozef, 3,449,715.
Van Ruyven, Lodewijk J., 3,424,890.
Veilex, Robert; and Parquet, Pierre, 3,431,744.
Wanmaker, Willem Lambertus; and Verlijsdonk, Johannes Godefridus, 3,423,325.
Weaver, John Anthony; and Woollons, David John, 3,439,353.
Westerhof, Pieter; and Hartog, Jan, 3,423,433.
Wilkes, John George, 3,436,285.
Winkler, Gerhard, 3,438,900.
Wolber, Jorg, 3,430,097.
Wolber, Jorg, 3,433,998.
Zegers, Leo Eduard; and Kuilman, Jan, 3,421,146.
See also: U.S. Philips Corporation
North American Rockwell Aviation Corporation: *See—*
Horsfall, Robert B.; Farrand, William A.; and Marcum, Norman E., 3,462,817.
North American Rockwell Corporation: *See—*
Accountius, Oliver E., 3,443,899.
Algeo, Jerry A., 3,434,139.
Anderson, Gerald V.; and Beeson, Phillip A., 3,424,891.
Argue, Gary R.; and Owens, Boone B., 3,443,997.
Ascani, Leonard A., Jr., 3,448,945.
Ashcraft, William D., 3,443,099.
Balent, Ralph; Wetch, Joseph R.; and Cohen, Emanuel Richard, 3,449,208.

Barnett, Burton; Moisson, George; and Pietka, Robert J., 3,442,479.
Barnett, Burton; and Kinsler, Martin R., 3,487,410.
Beall, Horace A., Jr.; Cross, James V.; and Gow, Kenneth P., 3,458,709.
Bet, Donald V., 3,469,252.
Bolie, Victor W., 3,449,767.
Boltinghouse, Joseph C.; and Slater, John M., 3,443,320.
Boltinghouse, Joseph C.; and Atkinson, James L., 3,482,455.
Booher, Robert K., 3,465,133.
Booher, Robert K., 3,484,625.
Booth, Raymond L., 3,470,921.
Botsco, Ronald J., 3,453,872.
Boyd, Aubrey B.; and Baugh, Jarod L., 3,439,617.
Boyer, James H., Jr., 3,477,253.
Bramblett, Ernest K., II; and Clapp, Richard W., 3,448,253.
Brown, Richard E.; and Janson, William A., 3,425,334.
Brown, Richard E.; and Papp, Louis S., 3,472,002.
Brownyer, Nelson R., 3,439,400.
Budds, Lee F.; and Perry, Michael, 3,475,587.
Burge, Harland L., Jr.; Falkenstein, Gary L.; and Roberts, Robert W., 3,421,316.
Butler, Charles A.; and Carter, Dustin W., 3,463,420.
Cady, Walter G., 3,437,851.
Campbell, Mark E., 3,436,547.
Chandos, Robert E., 3,428,791.
Chelner, Herbert; and Bubel, William L., 3,424,000.
Conn, Charles E., Jr.; and Neumann, Robert P., 3,444,608.
Corley, Boyce M., 3,424,630.
Corral, Joseph S.; and Krantz, Donald E., 3,423,977.
Corral, Joseph S.; and Krantz, Donald E., 3,474,649.
Cummings, Alan F., 3,433,441.
Curriston, Loren E.; and Draugelis, Bronius M., 3,463,986.
Davis, Noah S.; and Foust, Oren J., 3,431,200.
Davis, Noah S.; Foust, Oren J.; and Withers, Thomas W., 3,440,165.
Davis, Noah S.; and Foust, Oren J., 3,440,166.
Davis, Noah S., 3,442,498.
Davis, Noah S., 3,454,691.
Derbyshire, John, Jr.; Pollack, Isidore; and Pawloski, Victor A., 3,425,950.
Dillman, Norman G., 3,445,667.
Dillman, Norman G., 3,478,214.
Dorsman, Adrian K., 3,458,239.
Escobosa, Alfonso S., 3,424,990.
Farrand, William A.; and Horsfall, Robert Bruce, 3,454,857.
Farrand, William A.; Horsfall, Robert B.; Williams, Warner D.; and Marcum, Norman E., 3,482,232.
Faurote, Philip D.; and Segal, Charles L., 3,440,217.
Fleming, Gerald S.; Reed, Robert G.; and Seufert, John L., 3,453,620.
Flint, Edward F., 3,465,149.
Frederickson, Lyle R.; Rovelsky, Leon A.; and Wood, Robert L., 3,432,752.
Fried, David L.; and Read, Wendell S., 3,426,207.
Fried, David L., 3,443,100.
Friedman, Joseph; and Glenn, Lewis A., 3,439,503.
Frill, Robert H., 3,479,808.
Friske, Warren H.; and Supan, Edward C., 3,436,805.
Frost, John S., 3,432,724.
Frost, John S., 3,448,334.
Fultz, Jack V.; and Mines, Ronald E., 3,462,999.
Gardner, Frederick H., 3,435,677.
Gilder, Thomas E., 3,439,541.
Goodrich, Joseph A., 3,474,971.
Gow, Kenneth P., 3,439,427.
Grantham, Leroy F., 3,438,728.
Grantham, Leroy F.; and Larsen, Christian M., 3,438,733.
Grantham, Leroy F., 3,438,734.
Greenewald, Herbert, Jr., 3,485,681.
Gudmundsen, Richard A., 3,487,330.
Gudmundsen, Richard Austin; and Steele, Earl L., 3,444,478.
Hagon, Peter J., 3,484,662.
Hagon, Peter J., 3,484,933.
Halstenberg, Reynold V., 3,476,129.
Hamilton, Charles H., 3,478,416.
Hansen, Wilford N., 3,420,138.
Hansen, Wilford N., 3,433,570.
Hansen, Wilford N.; and Horton, James A., 3,439,968.
Hansen, Wilford N.; and Osteryoung, Robert A., 3,476,460.
Harrison, George; and Harrison, Nelson K., 3,445,904.
Heredy, Laszlo A.; McKenzie, Donald E.; and Yosim, Samuel J., 3,438,722.
Heredy, Laszlo A., 3,438,727.
Heredy, Laszlo A., 3,441,446.
Heredy, Laszlo A., 3,472,745.
Heredy, Laszlo A., 3,472,746.
Heredy, Laszlo A., 3,479,261.
Hertz, Theodore M., 3,427,596.
Hill, Le Roy D.; and Sanders, Robert M., 3,444,706.
Hill, Leroy D.; Imboden, Walter H.; and Riehl, Melvin E., 3,439,513.
Hodgson, Richard W.; Kennedy, Clifford F.; and Poarch, Charles T., 3,484,679.
Holm, Allan P.; and Raggio, Louis J., 3,480,401.
Holt, Charles R., 3,486,435.
Horsfalls, Robert B.; and Farrand, William A., 3,465,323.
Houk, Richard D., 3,468,185.
Houk, Richard D., 3,470,762.
Houk, Richard D., 3,470,771.
Hrusovsky, Louis, 3,466,202.
Hunt, Charles A., 3,472,976.
Husted, Hoyt L.; and Van Deventer, Emil L., 3,480,367.
Iannucci, Vincent A.; and Schartel, Ronald S., 3,480,216.
Imboden, Walter H., 3,438,225.
Israel, Jack D., 3,484,699.
Iverson, Marlowe L., 3,441,441.
Jacobs, Alvin J., 3,454,435.
Jacobs, Earl D.; and Quick, William H., 3,428,816.
Janson, William A., 3,422,602.
Johns, Roderick W., 3,464,251.
Johnson, Charles R., 3,487,308.
Jones, Robert L., 3,434,069.
Jones, Roger W.; and White, Lloyd M., 3,463,007.
Jones, Roger W., 3,470,374.
Katz, Norman H.; and Binstock, Martin H., 3,432,365.
Kaufmann, Robert H.; Richard, Donald; and Wily, John L., 3,425,315.
Kaveggia, Frederick S.; Rossi, Carl J.; and Peart, Leland L., 3,438,809.
Kennedy, Clifford F.; and Shelton, Thomas M., 3,431,764.
Kinzer, Jackson E., 3,439,356.
Klimmek, Norman; Melill, Joseph; King, Julian P., Jr.; Lorenz, Roy H.; and Hollingsworth, Frank H., 3,462,628.
Koch, Kenneth M.; and Rice, William E., 3,437,333.
Langrod, Kasimir; and Jones, Robert L., 3,432,336.
Lawton, Emil A.; and Weber, John Q., 3,433,595.
Lawton, Emil A.; and Rogers, Howard H., 3,454,476.
Lee, Sen L., 3,439,502.
Lenz, Charles E., 3,474,414.
Lesher, Howard D.; Friedman, Robert; and Foreman, Joseph O., 3,446,099.
Lewis, Harold F.; and Hayes, Monson H., Jr., 3,478,198.
Lind, James N.; and Aukland, Jerry C., 3,431,485.
Lockwood, Robert Addis, 3,428,496.
Lowe, Larry L.; and Chase, Gordon G., 3,449,818.
Lynch, William J.; and Kunc, Frank C., 3,465,715.
Maddox, Howard M.; and Poldervaart, Arie W., 3,465,300.
Manasevit, Harold M., 3,475,209.
Marcus, Thomas J., 3,473,036.
Mather, Glenn E., 3,468,527.
McBaine, Clifford K., 3,421,942.
McCaldin, James O.; and Widmer, Alois E., 3,442,721.
McCarthy, John F., Jr., 3,484,826.
McElwain, John C., 3,480,310.
McInturff, Alfred D., 3,453,378.
Mee, Jack E., 3,429,740.
Mevers, Gus E.; and Pollock, David B., 3,420,600.
Mevers, Gus E.; and Pollock, David B., 3,473,030.
Miller, Arnold, 3,452,503.
Miller, Frank S., 3,420,052.
Molina, Orlando G., 3,461,720.
Molina, Orlando G., 3,465,146.
Moline, Orlando G., 3,433,062.
Moyer, James D.; and Lang, Douglas C., 3,421,344.
Moyer, James D.; and Spittler, Richard F., 3,471,101.
Muench, Walter W., 3,481,293.
Nelson, Donald M., 3,431,794.
Nuding, James M., 3,422,529.
Owens, Boone B., 3,476,605.
Owens, Boone B., 3,476,606.
Parkins, William E., 3,483,040.
Patterson, William F.; and Roland, Ernesto T., 3,454,951.
Patterson, William F.; and Roland, Ernesto T., 3,465,346.
Payerle, Frank S., 3,468,187.
Pelteson, Frank M., 3,442,140.
Perdue, Willard F.; and Collins, Howard O., 3,441,999.
Pfaffle, Ernst; and Seufert, John L., 3,452,628.
Pierro, John J.; and Russell, Lewis B., 3,448,363.
Pierro, John J., 3,456,136.
Pilipovich, Donald, 3,440,251.
Pinson, John C., 3,483,384.
Polkinghorn, Robert W.; and Pfeifer, Arthur F., 3,480,796.
Poulos, Gus L., 3,434,734.
Prem, Lawrence L., 3,478,233.
Prem, Lawrence L.; and Wang, Tsih-Chang, 3,478,234.
Prem, Lawrence L., 3,483,404.
Prem, Lawrence L.; and Wang, Tsih-Chang, 3,483,405.
Priebe, John R., 3,469,030.
Pulliam, George R., 3,421,933.

Pullos, Vlash A., 3,439,537.
Quick, William H.; and Jacobs, Earl D., 3,438,710.
Rashidian, Rashid M., 3,463,419.
Reinicke, Robert H., 3,443,585.
Reinicke, Robert H.; and Mayfield, William B., 3,472,277.
Richter, Donald H.; Streimer, Irving; and Turner, David P. W., 3,449,843.
Rinehart, Dixie L., 3,422,985.
Robinson, Gordon S.; and Anderson, Robert W., Jr., 3,463,201.
Rockwell, Willard F., Jr., 3,434,560.
Roeder, Edward R., 3,475,442.
Roughton, Norbert A., 3,454,766.
Rovell, Alexander, 3,463,935.
Salman, Naif D., 3,458,828.
Savitz, Christian W., 3,448,238.
Schack, Carl J., 3,454,371.
Schack, Carl J., 3,472,635.
Schlein, Helmar, 3,420,764.
Schou, Carl E., 3,446,240.
Schwarzkopf. Peter; and Nakae, Takuro S., 3,454,372.
Segal, Charles L.; and Faurote, Philip D., 3,422,062.
Shaheen, Joseph M.; and Quintana, Leo J., 3,464,855.
Shaheen, Joseph M.; and Iles, Pamela L., 3,471,348.
Siegler, Robert S.; and Binsley, Robert L., 3,474,622.
Siler, Albert E., 3,480,964.
Slater, John M., 3,439,547.
Slater, John M., 3,439,884.
Slater, John M., 3,448,272.
Smith, Tennyson, 3,426,584.
Sobeck, Harold R., 3,448,563.
Spiro, Lloyd W., 3,461,265.
Stamm, Alex F., 3,445,911.
Stamm, Alex F., 3,455,494.
Stoney, William E., 3,452,356.
Sullivan, Fletcher R., 3,480,756.
Supa, Edward C., 3,436,806.
Tiernan, Stanley C., 3,467,146.
Tobias, Samuel F., Jr., 3,485,064.
Trent, Lamartine C., 3,472,176.
Trent, Lamartine C., 3,477,389.
Villani, John A.; and Wilson, Arthus S., 3,482,607.
Vogt, Paul R., 3,453,827.
Waner, Donald W., 3,480,247.
Wang, Tsih Chang; Fouad, Abdel-Azia A.; and Woehler, Karl-heinz Edgar, 3,483,403.
Wetch, Joseph R.; and Bernath, Louis, 3,438,432.
Wheatley, Charles E., III, 3,465,258.
Wiley, Carl A.; Canaday, James A.; Loeschen, Herbert C.; and Gaston, James B., 3,450,869.
Wiley, Carl A., 3,483,558.
Wong, Sam H., 3,430,247.
Wranosky, Donald D., 3,483,795.
Wright, Harlow, 3,471,217.
Zanowick, Richard L.; Coker, Jesse E.; and Morritz, Fred L., 3,433,684.
Zell, Charles C., Jr., 3,484,940.
Ziemba, Edward R., 3,444,705.

North American Utility Construction Corporation: *See*—
Stark, Virgil; and Sliosberg, Jacques, 3,437,098.
Stark, Virgil, 3,481,721.

North American Winfield Door Corp.: *See*—
Clapsaddle, Victor, 3,428,326.

North Atlantic Research Products Limited: *See*—
Foster, David Blythe, 3,436,555.

North British Rubber Company Limited, The: *See*—
Roberts, Albert, 3,441,641.

North Electric Company: *See*—
Bixby, William H., 3,470,444.
Southard, George G. D., 3,428,313.

North, Irving W., to Brunswick Corporation. Combined impact damping and power lift mechanism for an outboard propulsion unit assembly. 3,434,449, 3-25-69, Cl. 115-41.

North, Irving W.; and Woodfill, William L., to Brunswick Corporation. Leakproof valve. 3,447,564, 6-3-69, Cl. 137-512.

North, John D.; and Hubble, Gerald A., to Micromatic Hone Corporation. Total indicated reading comparator circuit. 3,481,466, 12-2-69, Cl. 209-88.

North, John W. Method of direct casting of steel slabs and billets. 3,438,424, 4-15-69, Cl. 164-138.

North, John. Window washing apparatus. 3,461,476, 8-19-69, Cl. 15-250.04

North Sails: *See*—
Bever, Donald L.; and Bennett, John W., 3,444,834.

North Shore Shingle Co., Ltd.: *See*—
Girard, Ernest J., 3,467,154.
Girard, Ernest J., 3,483,961.

North, William D.: *See*—
Kahn, Manfred; Lindmayer, Joseph; and North, William D.,3,443,236.

North, William J., to Korth Machinery Limited. Board turning apparatus. 3,426,882, 2-11-69, Cl. 198-33.

Northern Electric Company: *See*—
Dykes, Carrel Hilton, 3,461,273.
Scheid, Theodore G., III; and Schwaneke, Fredrich C., 3,426,306.
Schwaneke, Fredrich C., 3,473,767.

Northern Electric Company Limited: *See*—
Berger, Bernard A., 3,430,324.
Cambridge, Ronon M.; and Gardiner, Allan K., 3,440,556.
Clarke, Wallace Eugene, 3,445,812.
Colton, Douglas Roy, 3,477,959.
Davidson, Ian A.; Hantusch, Gerald H.; and May, George A., 3,423,822.
de Smet, Herman J., 3,474,207.
Deregnaucourt, Jacques V., 3,437,996.
Deregnaucourt, Jacques V., 3,447,147.
Dodson, Arthur Edward, 3,464,001.
Dupuis, Jean M., 3,459,616.
Dvorak, Alfred, 3,450,982.
Eisele, Werner Frank; and Lukas, Helmut H., 3,464,046.
Figg, John E. N., 3,428,504.
Flindall, Robert Lacey; and Lae, Leif Ragnar, 3,482,056.
Kaye, Alan R.; and Field, Gordon C., 3,463,940.
Kaye, Alan R.; and Thompson, Gordon B., 3,472,957.
Kelsey, Ernest S.; and Whitaker, Stuart H., 3,423,683.
Lagasse, Joseph Louis; Palardy, Jacques; Greenlay, John E.; Guimond, Jean P.; and Toussaint, Marcel, 3,485,432.
Lajeunesse, Harry J.; Cowpland, Michael C. J.; and Hanna, John L., 3,463,723.
Lewis, Derek C.; and Westwood, William D., 3,438,885.
Loro, Alberto, 3,449,825.
May, George A., 3,459,974.
Overtveld, Gilles J., 3,430,076.
Overtveld, Gilles J., 3,457,507.
Parkinson, Peter; Kennedy, Thomas; and William , John, 3,434,025.
Peek, Robert Lee, Jr., 3,474,205.
Perlman, Martin Melvin; and Reedyk, Cornelis Wilfred, 3,458,713.
Pringle, Bruce G., 3,423,600.
Read, Phillip J., 3,450,574.
Reedyk, Cornelis W., 3,436,492.
Ronald, Ulrich Paul, 3,485,224.
Tanner, Robert H.; Cambridge, Ronan M.; and Beresford, Morris M., 3,470,533.
Thompson, Gordon Bruce, 3,432,650.
Thompson, Joseph, 3,474,193.
Tillmann, Johannes Hermann, 3,486,080.
Williams, Dewi L., 3,464,007.

Northern Engineering & Supply Co., Limited, The: *See*—
Maradyn, Edward D., 3,457,971.
Maradyn, Edward D., 3,458,215.

Northern Fiber Products Company: *See*—
Ambrose, Jere B., 3,482,483.

Northern Lumber Company, Inc.: *See*—
McNulty, John V., 3,459,169.

Northern Natural Gas Company: *See*—
Hirt, Thomas J.; and Marynowski, Chester W., 3,465,115.

Northfield Processed Food Systems Company, Inc.: *See*—
Hager, John L., 3,435,106.

Northlite Industries Incorporated: *See*—
Novak, Thomas L.; and Novak, Stanley, 3,484,958.

Northrop Corporation: *See*—
Acord, Jerry E., 3,423,554.
Acord, Jerry E., 3,430,184.
Bahl, Richard C.; and Zeller, Miles J., 3,451,251.
Baker, William G.; Bose, Carl L.; and Gagon, Roland E., 3,439,546.
Bresin, Sheldon O.; and Ross, Donald E., 3,460,563.
Colburn, Reuben D., 3,485,076.
Engel, Joel S., 3,448,215.
Hauer, James R., 3,457,426.
Herrick, Donald W.; and Beam, Robert A., 3,423,155.
Hultberg, Donald E., 3,421,042.
Keller, Walter F., 3,456,440.
Moore, Douglas A.; and Folan, Martin P., 3,471,652.
Novotny, Henry R. F., 3,483,422.
Requa, Stanley C., 3,479,646.
Wanselow, Robert D.; and Milligan, Dale W., 3,427,624.

Northrop, Harry V., to Owens-Corning Fiberglas Corporation. Light control panel. 3,437,405, 4-8-69, Cl. 350-259.

Northrup, Hal J., to Dow Corning Corporation. Primer for cured silicone release agents. 3,427,270, 2-11-69, Cl. 260-29.1

Northrup, Hal J.: *See*—
Layne, Douglas K.; Northrup, Hal J.; and Weber, Carl D.,3,445,417.

Northrup, Lyle M.: *See*—
Storlie, Llewellyn O.; and Northrup, Lyle M.,3,425,164.

Northrup, Walter E.; and Spatafore, Robert M., to Minnesota Mining and Manufacturing Company. Stud-backed fasteners. 3,471,903, 10-14-69, Cl. 24-73.

Northup, Joseph A., Jr., to Welsh Manufacturing Company. Adjustable headband. 3,444,560, 5-20-69, Cl. 2-8.
Northup, Robert P., to General Electric Company. Reentry simulation. 3,456,502, 7-22-69, Cl. 73-147.
Northwest Engineering Corporation: *See*—
Burkart, Robert J., 3,485,394.
Windahl, Everett R., 3,485,395.
Northwest Industries Limited: *See*—
Morrison, Elwin M., 3,461,807.
Northwest Science Investment Corporation and: *See*—
Getchell, Frederick G.; Getchell, James W.; and Trunnell, Harold K., 3,424,356.
Northwestern Corporation, The: *See*—
Bolen, Richard K., 3,428,216.
Bolen, Richard K., 3,430,746.
Northwestern National Bank of Sioux Falls: *See*—
Rink, Richard H., 3,477,354.
Northwestern Steel and Wire Company: *See*—
Fusco, Raffaello; and Tenconi, Franco, 3,439,104.
Northwestern University: *See*—
Dowben, Robert M., 3,446,895.
Thomas, Edward R., Jr., 3,434,477.
Thomas, Edward R., Jr., 3,439,680.
Norton, Barry W.: *See*—
Wortman, Donald E.; Norton, Barry W.; and Scheibe, Elias W.,3,450,228.
Norton, Bruce, to Barnes Engineering Company. Method of producing immersed bolometers. 3,420,688, 1-7-69, Cl. 117-9.
Norton, Charles J., to Marathon Oil Company. Osmium tetra-oxide-p-dioxane complex and the production thereof. 3,424,765, 1-28-69, Cl. 260-340.6
Norton, Charles J.; and Seppi, Ned F., to Marathon Oil Company. Preparation of sulfonates by the reaction of olefins and bisulfite. 3,479,397, 11-18-69, Cl. 260-503.
Norton, Charles L.: *See*—
Nelson, Hugh Wharton; and Norton, Charles L.,3,447,895.
Norton, Charles W., Jr.: *See*—
Miller, Leon; and Norton, Charles W., Jr.,3,451,004.
Norton, Clive Nelson. Bath seat assemblies. 3,441,960, 5-6-69, Cl. 4-185.
Norton, Clyde A., deceased0 (by Norton, Eva, Administratrix). Method of producing a printed circuit board on a metallic substrate. 3,424,658, 1-28-69, Cl. 204-15.
Norton Company: *See*—
Alliegro, Richard A., 3,440,312.
Alliegro, Richard A., 3,482,791.
Amero, John J., 3,450,515.
Amero, John J., 3,454,385.
Coes, Loring, Jr., 3,427,754.
Coes, Loring, Jr., 3,451,171.
Eckert, John S., 3,465,974.
Eckert, John S., 3,474,597.
Erickson, Harry W., 3,462,889.
Fournier, Roger H., 3,482,356.
Hawkes, John H., 3,440,773.
Kallander, Ernest L., 3,452,489.
Logan, John C., 3,481,896.
Maliakal, Joseph C., 3,486,213.
Robertson, John, Jr., 3,477,180.
Sand, Leonard B., 3,436,174.
Siddall, Don F.; and Hoffman, Vincent L., 3,474,760.
Tervo, Reino O., 3,457,092.
Watson, George Robert; and Matchen, Ben, 3,429,974.
Whittemore, Osgood J., Jr., 3,445,184.
Norton, David E.: *See*—
Cooper, Thomas S.; and Norton, David E.,3,445,831.
Norton, David Edward Pepler, to Norton, James Farmer, Sir & Co. Limited. Steam treating apparatus. 3,447,346, 6-3-69, Cl. 68-5.
Norton, David Elliott, to International Business Machines Corporation. Memory driving circuit. 3,480,923, 11-25-69, Cl. 340-174.
Norton, Edward T., to Allis-Chalmers Manufacturing Company. Shunt reactor for transmission line. 3,443,119, 5-6-69, Cl. 307-93.
Norton, Eva: *See*—
Norton, Clyde A.,3,424,658.
Norton, Harry William, to McConnel, T. W., Limited. Adjustable implement carrying structures. 3,441,155, 4-29-69, Cl. 214-138.
Norton, James Farmer, Sir & Co. Limited: *See*—
Norton, David Edward Pepler, 3,447,346.
Norton, James Frederick, to Hansen Manufacturing Company, The. Valved fluid coupling or conduit. 3,460,801, 8-12-69, Cl. 251-149.6
Norton, James Hall, to Esso Research and Engineering Company. Non-staining liquid lubricant. 3,425,940, 2-4-69, Cl. 252-8.5
Norton, John P., to American Air Filter Company, Inc. Refrigerant condenser arrangement. 3,430,453, 3-4-69, Cl. 62-196.
Norton, John, to Leesona Limited. Tension control means. 3,481,011, 12-2-69, Cl. 28-35.
Norton, Lynn W.: *See*—
Norton, William H.,3,429,035.
Norton, Melvin: *See*—
Philen, Otis D., Jr.; Silverberg, Julius; and Norton, Melvin,3,423,199.
Norton, Oglebay, Company: *See*—
Charman, Walter M. Jr.; and Borden, James H., 3,468,368.
Norton, Orlo C. Lamp socket insert. 3,467,937, 9-16-69, Cl. 338-219.
Norton, Randolph; and Ames, Sidney B., to Minnesota Mining and Manufacturing Company. Apparatus for producing photographic prints by heat development. 3,475,095, 10-28-69, Cl. 355-27.
Norton, Robert K., to Harris-Intertype Corporation. Mechanism for applying a coating to a plate. 3,433,155, 3-18-69, Cl. 101-148.
Norton, Robert K., to Harris-Intertype Corporation. Rotary sheet fed machine. 3,460,473, 8-12-69, Cl. 101-183.
Norton, Robert L., to Polaroid Corporation. Self-developing camera. 3,426,664, 2-11-69, Cl. 95-13.
Norton, Robert L., to Polaroid Corporation. Photographic shutter mechanism. 3,430,547, 3-4-69, Cl. 95-60.
Norton, Robert L.; and Rosen, William J., to Polaroid Corporation. Photographic film magazine. 3,443,500, 5-13-69, Cl. 95-19.
Norton, Roy, to Wear-Flex Corporation, The. Load lifting sling with built-in load indicator. 3,463,534, 8-26-69, Cl. 294-74.
Norton, Roy, to Wear-Flex Corporation, The. Fabric load lifting sling and similar flexible tension member having increased ability to withstand shock loads. 3,466,080, 9-9-69, Cl. 294-74.
Norton, Stanley C., Jr.: *See*—
Jaquith, Howard R.; McCarthy, James L.; Nichols, Nathaniel B.; and Norton, Stanley C., Jr.,3,480,854.
Norton, Stanley G., Jr.: *See*—
Jaquith, Howard R.; and Norton, Stanley G., Jr.,3,433,239.
Norton, Walter: *See*—
Nameche, Alfred E.; and Norton, Walter,3,486,580.
Norton, William E. Gravy saver barbecue device. 3,443,510, 5-13-69, Cl. 99-445.
Norton, William H., deceased0 (by Norton, Lynn W., administratrix), to Thermel Incorporated. Method of making a heating element. 3,429,035, 2-25-69, Cl. 29-618.
Nortronics Company, Inc., The: *See*—
Kronfeld, Leonard E., 3,484,562.
Kronfeld, Leonard E., 3,484,564.
Kronfeld, Leonard E.; and Hogan, John W., 3,484,565.
Norungolo, Patrick C.: *See*—
Edens, Carrol D.; Norungolo, Patrick C.; and Barrowclough, Howard J.,3,460,660.
Norvell, Bert E.: *See*—
Greenberg, Sanford David; and Norvell, Bert E.,3,480,737.
Norwich Pharmacal Company, The: *See*—
Burch, Homer Albert, 3,427,329.
Burch, Homer Albert, 3,427,387.
Burch, Homer Albert, 3,450,708.
Davis, Charles Stewart, 3,458,500.
Michels, Julian Getz, 3,446,802.
Snyder, Harry R., Jr., 3,485,830.
Norwood, Donald D.: *See*—
Hinton, Robert A.; and Norwood, Donald D.,3,461,109.
Norwood, Donald W. Co-ordinate viewfinder for camera. 3,486,432, 12-30-69, Cl. 95-44.
Norwood, James C., to Volckening, Inc. Bottle filler tube. 3,450,175, 6-17-69, Cl. 141-392.
Norwood, Paul J. String tension adjustment device for stringed instrument. 3,440,920, 4-29-69, Cl. 84-312.
Norwood, Richard E., to International Business Machines Corporation. Apparatus using diaphragm-type fluid-controlled logic devices and method of making same. 3,424,063, 1-28-69, Cl. 92-98.
Nosco Plastics, Incorporated: *See*—
Cloyd, Harold S., 3,438,544.
Cloyd, Harold S.; Bernhardt, Charles A.; and Mangold, Robert T., 3,443,722.
Nosenzo, Mario, to General Bearing Company, Inc. Sealed ball transfer. 3,478,382, 11-18-69, Cl. 16-44.
Noseworthy, Lloyd M. Exercise performance and recording device. 3,473,239, 10-21-69, Cl. 35-21.
Noshay, Allen; and Smith, William S., Jr., to Esso Research and Engineering Company. Stabilized dyeable polymers. 3,424,716, 1-28-69, Cl. 260-45.75
Noshi, Yoshibumi: *See*—
Sugahara, Yujiro; Yamada, Taketoshi; Noshi, Yoshibumi; and Matsuo, Shyoji,3,461,081.
Noskowicz, Theodore S.: *See*—
Levin, Nathan D.; and Noskowicz, Theodore S.,3,452,655.
Noss, Cornelius, to Siemens Aktiengesellschaft. Crystal microphone with automatic silencer. 3,472,972, 10-14-69, Cl. 179-110.
Nostorag AG.: *See*—
Egner, Otto, 3,420,494.
Notari, Bruno; and Manara, Giovanni, to Snam S.p.A. Process for preparing catalysts for the isomerization of lower saturated hydrocarbons. 3,424,697, 1-28-69, Cl. 252-430.
Notbohm, Willard C., to Black Clawson Company, The. Paper machinery. 3,459,124, 8-5-69, Cl. 100-170.

Notbohm, Willard C., to Black Clawson Company, The. Method and apparatus for casting an internally flanged tubular member. 3,478,811, 11-18-69, Cl. 164-94.
Notbohm, Willard C., to Black Clawson Company, The. Paper forming support roll with stationary shaft and rotatable tube thereon. 3,483,080, 12-9-69, Cl. 162-354.
Notchev, John S.: *See—*
Reagan, Bruce V., Jr.; Notchev, John S.; and Cederwall, Leonard O.,3,430,302.
Nothnagle, Paul E.; and Rosenberger, Harold E., to Bausch & Lomb Incorporated. Zoom lens system for microscope. 3,421,807, 1-14-69, Cl. 350-43.
Notifier Company: *See—*
Tetherow, Claude L., 3,448,447.
Notley, Norman T.: *See—*
Fleming, Joseph D.; Sanchez, Earl J.; Farris, Charles L.; and Notley, Norman T.,3,440,083.
Notley, Norman T., to Kalvar Corporation. Vesicular photographic materials. 3,485,631, 12-23-69, Cl. 96-75.
Notley, Norman T.; and Senentz, Irwin M., Jr., to Kalvar Corporation. Method of making reversal images. 3,457,071, 7-22-69, Cl. 96-27.
Noto, Hajime: *See—*
Ishizaki, Kan; and Noto, Hajime,3,430,343.
Nott, Peter Thomas Mence. Hydrofoil watercraft. 3,456,609, 7-22-69, Cl. 114-66.5
Nott, Peter T.M.: *See—*
Fry, Jeremy J.; Hore, Donald L.; and Nott, Peter T.M.,3,475,000.
Notte, Albert C., Jr.: *See—*
Seitz, Russell, 3,431,066.
Notz, Karl: *See—*
Becker, Ernst; and Notz, Karl,3,443,537.
Becker, Ernst; and Notz, Karl,3,477,399.
Becker, Ernst; and Notz, Karl,3,487,438.
Becker, Ernst; Notz, Karl; and Meier, Karl-Heinz,3,443,445.
Nourse, Donald G. Mobile cement unit. 3,466,018, 9-9-69, Cl. 259-163.
Nouvel, Lucien. Antipyretic and antirheumatic compositions containing an animal mucin. 3,436,454, 4-1-69, Cl. 424-10.
Novacek, Tom, to U.S. Philips Corporation, mesne. Radiographic display device with areas of interest set off with marking pulses. 3,441,667, 4-29-69, Cl. 178-68.
Novacek, William G.: *See—*
Jaeschke, Charles R.; and Novacek, William G.,3,484,536.
Novacel S.A.: *See—*
Bibost, Pierre Andre Joseph, 3,486,191.
Garnier, Jean Pierre Gabriel Ernest, 3,424,398.
Villain, Pierre, 3,476,844.
Novack, Robert Lee: *See—*
Allen, Robert J.; Novack, Robert Lee; and Petrow, Henry George,3,471,332.
Novack, Robert Lee, to Prototech Company, division of Bolt Beranek and Newman Inc. Method of unplugging fuel-cell oxygen inlets and the like. 3,471,333, 10-7-69, Cl. 136-86.
Juda, Walter; and Novack, Robert Lee,3,447,288.
Juda, Walter; Moulton, David McLeod; and Novack, Robert L.,3,470,026.
Novack, Robert L.; Moulton, David McLeod; and Juda, Walter, to Prototech Company, division of Bolt Beranek and Newman Inc. Fuel cell process using peroxide and superoxide and apparatus. 3,471,334, 10-7-69, Cl. 136-86.
Moulton, David McL.; Novack, Robert L.; and Juda, Walter,3,471,335.
Novaco, Stanley G., to Proll Products Co. One-piece air flow actuated sound producing device. 3,426,477, 2-11-69, Cl. 46-180.
Novak, Arthur F.: *See—*
Holmes, Raiford L.; Moreau, Jerry P.; and Novak, Arthur F.,3,427,333.
Novak, Charles J.: *See—*
Tuffnell, Glenn W.; Novak, Charles J.; and Floreen, Stephen,3,453,153.
Novak, David M.; and Rankin, Harry W. Ashtray cleaner. 3,457,577, 7-29-69, Cl. 15-21.
Novak, Edward J.: *See—*
Gallee, George J.; and Novak, Edward J.,3,463,304.
Novak, Jane E.; and Orzechowski, John F., to Raybestos-Manhattan, Inc. Production of asbestos yarn. 3,453,818, 7-8-69, Cl. 57-164.
Novak, John S.: *See—*
Rich, Anthony J.; and Novak, John S.,3,426,339.
Novak, Joseph F. Garbage can cover device. 3,463,429, 8-26-69, Cl. 248-147.
Novak, Leo L., to Allis-Chalmers Manufacturing Company. Piston cooling system. 3,485,324, 12-23-69, Cl. 184-6.
Novak, Paul A.: *See—*
Vom Brack, Theodore F.; and Novak, Paul A.,3,462,112.
Novak, Phillip J. Dispensing package of fishing lure nodules. 3,473,651, 10-21-69, Cl. 206-56.
Novak, Phillip J. Artificial dry fly fishing lure. 3,477,164, 11-11-69, Cl. 43-42.09
Novak, Robert P.: *See—*
Berglund, Larry G.; and Novak, Robert P.,3,466,894.
Novak, Stanley: *See—*
Novak, Thomas L., 3,486,695.
Novak, Stanley: *See—*
Novak, Thomas L.; and Novak, Stanley,3,484,958.
Novak, Thomas L., 1/2 to Novak, Stanley. Shower water additive dispensing apparatus. 3,486,695, 12-30-69, Cl. 239-70.
Novak, Thomas L.; and Novak, Stanley, to Northlite Industries Incorporated. Snowshoe. 3,484,958, 12-23-69, Cl. 36-4.5
Novak, Warren D., to Mosler Research Products, Inc. Sequence camera. 3,429,245, 2-25-69, Cl. 95-11.
Novelty Carriage Works, Inc.: *See—*
Halstead, Robert E.; and Halstead, Harold A., Jr., 3,441,309.
November, Gerald S. Modular wall construction. 3,466,828, 9-16-69, Cl. 52-475.
Noveske, Walter J., to Emerson Electric Co. Tube and rod bender. 3,447,353, 6-3-69, Cl. 72-217.
Novet, Gabriel, to Compagnie Generale de Forages C.O.F.O.R. Steel pile assembly for the erection of underground concrete walls. 3,452,546, 7-1-69, Cl. 61-53.
Novet, Gabriel, to Stang Cofor Inc., mesne. Apparatus for excavating trenches. 3,466,769, 9-16-69, Cl. 37-103.
Novet, Hanspeter: *See—*
Maurer, Fritz; and Novet, Hanspeter,3,461,774.
Novinger, Harry E. Infinitely variable speed gear transmission. 3,422,702, 1-21-69, Cl. 74-793.
Novinger, Harry E. Infinitely variable speed gear transmission. 3,442,156, 5-6-69, Cl. 74-793.
Novinger, Harry E. Infinitely variable speed gear transmission. 3,442,157, 5-6-69, Cl. 74-793.
Novo Industrial Corporation-United Air Cleaner Div.: *See—*
Bennett, Raymond G.; and Risse, Willis H., 3,423,909.
Novo Terapeutisk Laboratorium A/S: *See—*
Andrup, Erik E.; and Lundbaek, Aase, 3,453,269.
Borrevang, Poul; and Faarup, Peter, 3,445,461.
Borrevang, Poul, 3,459,739.
Novotny, Bohuslav: *See—*
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav,3,447,525.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav,3,447,526.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav,3,447,527.
Novotny, Bohuslav; and Cermak, Jiri, to Vyzkumny a vyvojovy ustav Zavodu Vseobecneho Strojirenstvi. Magazine for feeding belted ammunition to automatic firearms. 3,456,553, 7-22-69, Cl. 89-33.
Novotny, Carl F., to Bucyrus-Erie Company. Boom retracting machinery. 3,426,916, 2-11-69, Cl. 212-46.
Novotny, Carl F.; and Mork, George W., to Bucyrus-Erie Company. Boom back-stop apparatus. 3,433,367, 3-18-69, Cl. 212-39.
Novotny, Henry R. F., to Northrop Corporation. Electron beam scanner with transverse digital control. 3,483,422, 12-9-69, Cl. 315-12.
Novotny, Raymond John. Aerial toy rocket. 3,465,472, 9-9-69, Cl. 46-74.
Novotny, Rudolf; and Schuermann, Fritz. Anchor bolts and method for fixing same in drill holes especially in friable rock. 3,430,449, 3-4-69, Cl. 61-45.
Novy, John R.: *See—*
Meyer, Herbert J.; Daugherty, Charles A., Jr.; and Novy, John R.,3,480,738.
Nowak, David J.: *See—*
Schmid, Pierre E.; and Nowak, David J.,3,469,080.
Nowak, Edward A., to Owens-Illinois, Inc. Method and apparatus for forming hollow glass articles. 3,468,648, 9-23-69, Cl. 65-76.
Nowak, Ervin K.; and Graef, Luther W., to Commercial Builders Corp. Frame mounting in wall panel system. 3,436,886, 4-8-69, Cl. 52-208.
Nowak, Klaus Frederick. Exhaust system for two-stroke engines. 3,462,947, 8-26-69, Cl. 60-32.
Nowak, Leon J., Jr.; Robinson, Joseph L.; Krolopp, Otto C.; Keenan, Joseph H.; and Smith, Joseph L., to Blaw-Knox Company. Roasting method and apparatus. 3,486,240, 12-30-69, Cl. 34-10.
Nowak, Milton; and Singer, William, to Troy Chemical Corporation. Novel promoters for polyesters. 3,485,772, 12-23-69, Cl. 252-431.
Nowak, Robert M.; and Glesner, William K., to Dow Chemical Company, The. Apparatus for dispensing viscous materials into molds. 3,431,597, 3-11-69, Cl. 18-5.
Nowak, Robert M.; and Jones, Giffin D., to Dow Chemical Company, The. High impact styrene polymer containing ethylene- alkyl acrylate copolymer. 3,446,760, 5-27-69, Cl. 260-4.
Nowak, Rudolf; and Schuster, Wilhelm, to Halomet AG. Process for the production of metallic chlorides from substances containing metallic oxides. 3,466,169, 9-9-69, Cl. 75-112.
Nowak, Ryszard: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Nowak, Thomas A., to Kaiser Aluminum & Chemical Corporation. Mold for continuous casting of hollow objects. 3,481,391, 12-2-69, Cl. 164-268.

Nowalk, Thomas P.; and Ferree, Herbert E., to Westinghouse Electric Corporation. Flat package encapsulation of electrical devices. 3,437,887, 4-8-69, Cl. 317-234.
Nowalk, Thomas P.; and Knopp, Adalbert, to Westinghouse Electric Corporation. Process for fabricating a semiconductor device. 3,475,235, 10-28-69, Cl. 148-190.
Nowalk, Thomas P.: *See—*
Steinmetz, John J., Jr.; Ferree, Herbert E.; and Nowalk, Thomas P.,3,463,976.
Nowell, John R.: *See—*
Derby, William G.; and Nowell, John R.,3,443,070.
Razaitis, Leo C.; Meng, John D.; and Nowell, John R.,3,437,833.
Nowick, Arthur S.: *See—*
Mader, Siegfried R.; Nowick, Arthur S.; and Widmer, Hans,3,427,154.
Nowicki, Casimir W., to Owens-Illinois, Inc. Clamping and inverting mechanism for automatic case loader. 3,438,515, 4-15-69, Cl. 214-1.
Nowlin, Gene; and Lyons, Harold D., to Phillips Petroleum Company. Thermoplastic resins from aryl olefins. 3,449,307, 6-10-69, Cl. 260-84.1
Nowosadko, Raymond F., to Connecticut Research & Manufacturing Corporation, The. Method of joining a pipe and fitting. 3,427,707, 2-18-69, Cl. 29-482.
Nowotny, Beate: *See—*
Schlegel, Hans; and Nowotny, Beate,3,423,269.
Nowotny, Kurt A., to Monsanto Company. Halogen-containing diphenyl ethers. 3,472,782, 10-14-69, Cl. 252-78.
Nowy, Gunther: *See—*
Blaettner, Kurt; and Nowy, Gunther,3,459,811.
Noxon, Paul A., to Bendix Corporation, The. Fog simulator and method for accomplishing airborne simulation of a fog. 3,427,730, 2-18-69, Cl. 35-12.
Noxon, Paul A., to Bendix Corporation, The. Fog simulator and method for accomplishing airborne simulation of a fog. 3,436,840, 4-8-69, Cl. 35-12.
Noyori, Gentaro; Kurokawa, Hidemoto; and Watanabe, Teiko, to Noguchi Institute, The. Continuous optical resolution of racemic glutamic acid or its salts. 3,450,751, 6-17-69, Cl. 260-534.
Noyori, Ryoji: *See—*
Nozaki, Hitosi; Noyori, Ryoji; and Mori, Takashi,3,465,040.
Nozaki, Arthur T.: *See—*
Gilligan, Thomas J.; and Nozaki, Arthur T.,3,466,633.
Nozaki, Choji: *See—*
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu,3,457,597.
Nozaki, Fumio: *See—*
Gotohda, Masao; Kubota, Hiroshi; Nozaki, Fumio; and Omi, Shinzo,3,481,848.
Nozaki, Hitosi; Noyori, Ryoji; and Mori, Takashi, to Chugai Seiyaku Kabushiki Kaisha. 2,3-Decamethylene-cyclopentanone. 3,465,040, 9-2-69, Cl. 260-586.
Nozaki, Kenzie, to Shell Oil Company. Production of N,N-dimethylformamide. 3,446,842, 5-27-69, Cl. 260-561.
Nozaki, Michio: *See—*
Koga, Wataru; Abo, Masahiro; Yasuoka, Yoshio; Nozaki, Michio; and Nomaguchi, Kanemasa,3,444,112.
Nozaki, Toshio; Mori, Kunihito; Ushirokajitani, Yoshiyuki; and Okamoto, Kenya, to Matsushita Electric Industrial Co., Ltd. Liquid-fuel-water separator for liquid fuel burners. 3,485,370, 12-23-69, Cl. 210-124.
Nozawa, Koichi: *See—*
Seno, Kenji; Nozawa, Koichi; Tanaka, Nobuyuki; and Kikuchi, Hideyuki,3,431,403.
Nozawa, Masao; Sako, Kiyoshi; and Ueda, Hiroshi, to Japan Atomic Energy Research Institute, and Nippon Kohkan Kabushiki Kaisha. Steam generator or heater for an atomic power generating plant. 3,446,188, 5-27-69, Cl. 122-32.
Nozawa, Masayuki; Ito, Toshinori; Hayashi, Shingo; and Otsuka, Naotoshi, to Toshiba Machine Co., Ltd. Process for preparation for splitting fiber and its apparatus for the same. 3,427,912, 2-18-69, Cl. 83-20.
Noznick, Peter Paul; and Tatter, Charles W., to Beatrice Foods Co. Solid vinegar. 3,445,244, 5-20-69, Cl. 99-147.
Noznick, Peter P.; Bundus, Robert H.; and Luksas, Anthony J., to Beatrice Foods Co. Rapid manufacture of cheese. 3,446,627, 5-27-69, Cl. 99-115.
Noznick, Peter P.; and Tater, Charles W., to Beatrice Foods Co. Sour cream whip. 3,443,960, 5-13-69, Cl. 99-59.
Noznick, Peter P.: *See—*
Tatter, Charles W.; and Noznick, Peter P.,3,421,904.
Tatter, Charles W.; and Noznick, Peter P.,3,433,643.
Nozoe, Akihiko: *See—*
Shimamoto, Takatsugu; Hiyamuda, Shota; Fujita, Shigeru; Nozoe, Akihiko; Yamaguchi, Hiromi; and Eguchi, Jutaro,3,423,910.
Nozoe, Yasuhiro: *See—*
Akamatsu, Hiroo; Morita, Takanobu; Kamei, Mikio; and Nozoe, Yasuhiro,3,479,518.
NRA, Inc.: *See—*
Ehrlich, Melvin P., 3,479,608.
NRM Corporation: *See—*
Cantarutti, Armindo, 3,429,490.
Cantarutti, Armindo, 3,438,832.
Cantarutti, Armindo; and Breza, Stephen F., 3,460,197.
Cantarutti, Armindo, 3,464,090.
Cantarutti, Armindo; and Breza, Stephen F., 3,484,898.
Heston, Eugene E., 3,422,493.
Heston, Eugene E.; Stroup, John F.; McCormick, William S.; and Wurgler, Heinrich J., 3,445,890.
Heston, Eugene E., 3,475,787.
Heston, Eugene E., 3,475,788.
Horvath, Steven J., 3,472,467.
Jones, Thomas C.; and Cantarutti, Armindo, 3,428,510.
Stroup, John F.; and Sponaugle, Lloyd B., 3,475,789.
NTT Enterprises, Inc.: *See—*
Tyler, Nelson, 3,467,350.
Nuarc Company, The: *See—*
Leonhart, Charles J., 3,424,530.
Nubel, Robert C.: *See—*
Brooks, Owen E.; and Nubel, Robert C.,3,476,366.
Sellers, Robert S.; Nubel, Robert C.; and Fitts, Robert A.,3,461,035.
Nuccel, Albert W., to Teledyne Inc., mesne. Anti-backlash gear reducer. 3,463,030, 8-26-69, Cl. 74-409.
Nuckolls, Joe A.; and Osteen, Mitchell M., to General Electric Company. Control circuit with voltage sensitive Photoelectric gaseous discharge tube. 3,483,430, 12-9-69, Cl. 315-159.
Nuckolls, Joe A.: *See—*
Jones, Howard T.; and Nuckolls, Joe A.,3,440,520.
Nuckols, David E.: *See—*
Lherault, Jean A. D. P.; and Nuckols, David E.,3,439,996.
Nuclear Materials and Equipment Corporation: *See—*
Baker, Donald E.; and Eck, John E., 3,440,085.
Ellison, Charles V.; and Vondra, Benedict L., 3,429,671.
Shapiro, Zalman M., 3,429,295.
Nuclear Power Plant Company Limited, The: *See—*
Bilsborough, Roy; and O'Tallamhain, Colm, 3,453,177.
Nuclear Products Company: *See—*
Callahan, Francis J., Jr.; Gallagher, Bernard J.; Tasker, Jonathan; and Shufflebarger, Earl D., 3,428,291.
Nuclear Research Associates, Inc.: *See—*
Ehrlich, Melvin P.; and Stoller, Milton, 3,441,445.
Krasnow, Philip I.; and Goodman, Jerome, 3,468,710.
Nuclear-Chicago Corporation: *See—*
Emmer, Thomas Lee, 3,432,687.
Hughes, Leonard A., 3,441,352.
Meeder, Raymond L.; and Kus, Joseph E., 3,480,778.
Molitor, Robert L., 3,426,232.
Nudd, Howard W., Jr., to Foxboro Company, The. Flyball integrator cutoff. 3,426,594, 2-11-69, Cl. 73-206.
Nudelmont, Jean-Claude, to Professional General Electronic Products. Current distributor. 3,443,162, 5-6-69, Cl. 317-118.
Nudenberg, Walter: *See—*
Barton, Bernard Charles; Nudenberg, Walter; and Delaney, Edward Axel,3,466,268.
Nudenberg, Walter; Merrifield, Dudley Bruce; and Delaney, Edward Axel, to Texas-U.S. Chemical Company. Diene polymerization process and catalyst therefor. 3,424,736, 1-28-69, Cl. 260-94.3
Nuding, James M., to North American Rockwell Corporation. Method of making a superconductive joint. 3,422,529, 1-21-69, Cl. 29-599.
Nuerrenbach, Axel: *See—*
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Sarnecki, Wilhelm,3,449,438.
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Pommer, Horst,3,471,569.
Nuessli, Ernst. Lubricated spinning ring. 3,447,304, 6-3-69, Cl. 57-120.
Nufer, Hans L.: *See—*
Patellis, Anargiros P.; and Nufer, Hans L.,3,466,271.
Nugarus, Anthony R., to Crompton & Knowles Corporation. Circular nozzle. 3,462,085, 8-19-69, Cl. 239-515.
Nugarus, Anthony R., to Crompton & Knowles Corporation. Roll coater. 3,468,286, 9-23-69, Cl. 118-239.
Nugent, Arthur, to Muse, Edison, Jr. Sealer and method of sealing liquid systems. 3,433,655, 3-18-69, Cl. 106-33.
Nugent, Elizabeth M. Retractable clothing pole. 3,464,664, 9-2-69, Cl. 248-435.
Nugent, William W., & Co., (Inc.): *See—*
Petri, Andrew W., 3,481,472.
Severin, Warren J., 3,425,511.
Nugier, Francis A. Air operated hydraulic pump. 3,465,686, 9-9-69, Cl. 103-51.
Nujute Incorporated: *See—*
Panto, Joseph S.; and Burr, Francis K., 3,472,609.
Nukem Nuklear-Chemie und -Metallurgie Gesellschaft mbH: *See—*
Hackstein, Karl-Gerhard; Pirk, Hans; and Maulbecker, Dieter Karl, 3,477,830.

Nukor (Proprietary) Limited: *See—*
Wilson, Leslie F., 3,422,545.
Null, Fay E., to United States of America, Air Force. Warhead. 3,472,165, 10-14-69, Cl. 102-1.
Numakura, Toshio: *See—*
Takeyasu, Kiyoo; and Numakura, Toshio,3,461,367.
Numata, Mitsuo: *See—*
Hirano, Hiroshi; Masuda, Katsutada; Numata, Mitsuo; and Oka, Yoshikazu,3,455,956.
Numata, Yehan: *See—*
Nishikata, Goro, 3,469,320.
Numatics, Incorporated: *See—*
Carls, William, 3,428,084.
Carls, William, 3,442,291.
Doig, George; and Mc Geachy, Donald E., 3,478,497.
Numazawa, Akio, to Toyota Jidosha Kogyo Kabushiki Kaisha. Collapsible steering column assembly. 3,459,063, 8-5-69, Cl. 74-492.
Numerof, Paul: *See—*
Bruno, Gerald A.; Haney, Thomas A.; Numerof, Paul; and Reinhardt, Karl,3,440,423.
Numo-Trans Data Corporation: *See—*
Hamrick, James G.; Lee, Milton O.; and Loewenthal, Ariadne L., 3,435,414.
Nunes, Edward R., to Nunes, Inc. Phonograph record envelope. 3,473,653, 10-21-69, Cl. 206-62.
Nunes, Inc.: *See—*
Nunes, Edward R., 3,473,653.
Nunes, John F., Jr. Sod harvesting apparatus. 3,429,377, 2-25-69, Cl. 172-19.
Nunez, Jaen: *See—*
Pole, Robert V.; and Nunez, Jaen,3,432,767.
Pole, Robert V.; Myers, Robert A.; Barrekette, Euval S.; and Nunez, Jaen,3,440,561.
Nunley, Clifford E.: *See—*
Gibson, Ronald F.; Nunley, Clifford E.; and Waters, Dean A.,3,430,849.
Nunley, Leonard J., to Recognition Equipment, Incorporated. Digital-analog retina output conditioning. 3,484,747, 12-16-69, Cl. 340-146.3
Nunlist, Erwin J., to Ritter Pfaudler Corporation. Connection with a glass coated sealing surface. 3,439,940, 4-22-69, Cl. 285-10.
Nunlist, Erwin J.; and Primak, Alex, to Ritter Pfaudler Corporation. Jacketed vessel. 3,425,582, 2-4-69, Cl. 220-14.
Nunn, Earnest W.: *See—*
Horton, Donelson B.; and Nunn, Earnest W.,3,478,967.
Nunnelley, William B.: *See—*
Phillip. Hubert C.; and Nunnelley, William B.,3,486,638.
Nunns, Brian: *See—*
Stubbins, Derek; and Nunns, Brian,3,456,775.
Nuova San Giorgio S.p.A.: *See—*
Peracca, Manlio; and Cicutta, Guerrino, 3,441,061.
Nupro Company: *See—*
Callahan, Francis J., Jr., 3,426,580.
Nurick, Raymond G., to Food Systems, Inc. Egg tray construction. 3,451,577, 6-24-69, Cl. 217-26.5
Nurmse, Karl, to ABU Aktiebolag. Braking device for fishing reels, especially for fly fishing. 3,478,978, 11-18-69, Cl. 242-84.51
Nurnberg, Eberhard, to Merck, E., A.G. Manufacture of tablets directly from dry powders. 3,424,842, 1-28-69, Cl. 424-94.
Nusbaum, Elmer R.: *See—*
Salkoff, Goodwin; and Nusbaum, Elmer R.,3,421,458.
Nusbaum, Henry, to Roylyn Incorporated. Liquid level sensing means. 3,437,771, 4-8-69, Cl. 200-84.
Nusbaum, Mortimer. Carpet tile or floor covering and method of making the same. 3,473,495, 10-21-69, Cl. 112-79.
Nuss, Christopher: *See—*
Brady, Charles E.; and Nuss, Christopher,3,426,785.
Nussbaum, Marvin L.: *See—*
Knaggs, Edward A.; Nussbaum, Marvin L.; and Fischer, Elias,3,433,745.
Nussbaum, Otto J., to Larkin Goils, Inc. Evaporator control with constant pressure expansion valve and by-pass means. 3,434,299, 3-25-69, Cl. 62-199.
Nusser, Helmut: *See—*
Fauth, Guenter; and Nusser, Helmut,3,463,067.
Nusser, Hubertus W.: *See—*
Jongbloed, Johannes; Gardeniers, Jan G.; Nusser, Hubertus W.; and Peeters, Pierre H.,3,469,323.
Nusser, Lawrence; and Good, Adrian J., to SCM Corporation. Coated food and beverage cans, lids and closures and coatings and processes therefor. 3,463,754, 8-26-69, Cl. 260-30.4
Nute, Philip R.; Serabian, Steven; and Weighart, Frederick, to Automation Industries, Inc. Ultrasonic attenuation meter. 3,427,867, 2-18-69, Cl. 73-67.9
Nutt, Ronald: *See—*
Biggerstaff, John A.; and Nutt, Ronald,3,464,013.
Nutt, William Owen, to Cement Marketing Company Limited. Stable compositions of hydraulic cement and polymerizable unsaturated polyester resin components copolymerizable by the mere addition of water, and methods of producing same. 3,437,619, 4-8-69, Cl. 260-22.
Nuttall, Wallace H., to Container Corporation of America. Packaging method. 3,433,694, 3-18-69, Cl. 156-244.
Nutten, Warren D.; and Holland, Norman F., to Tillotson Manufacturing Company, The. Fuel feed system and charge forming apparatus. 3,453,994, 7-8-69, Cl. 123-73.
Nutten, Warren D.; and Phillips, Bernard C., to Tillotson Manufacturing Company, The. Liquid fuel burner system and fuel control. 3,428,406, 2-18-69, Cl. 431-12.
Nutter, Benjamin P., to Schlumberger Technology Corporation. Apparatus for use in drill stem testing. 3,422,896, 1-21-69, Cl. 166-113.
Nutter, Benjamin P., to Schlumberger Technology Corporation. Well tool valve actuators. 3,442,328, 5-6-69, Cl. 166-152.
Nutter, Benjamin P., to Schlumberger Technology Corporation. Actuating means for well tools. 3,446,280, 5-27-69, Cl. 166-152.
Nutter, Dale E.: *See—*
Nutter, Irvin E.; and Nutter, Dale E.,3,463,464.
Nutter, Irvin E.; and Nutter, Dale E. Fluid contact tray. 3,463,464, 8-26-69, Cl. 261-114.
Nutter, James M.: *See—*
Breon, Pearl L.; Imes, Vernon W.; Johnson, Harold R.; Nutter, James M.; and Nutter, James M.,3,478,833.
Breon, Pearl L.; Imes, Vernon W.; Johnson, Harold R.; Nutter, James M.; and Nutter, James M.,3,478,833.
Nutter, Ralph E., to Cascade Corporation. Hoist ram control apparatus. 3,438,308, 4-15-69, Cl. 91-445.
Nutter, Ralph E., to Cascade Corporation. Apparatus and method for handling a load supported on a pallet. 3,438,525, 4-15-69, Cl. 214-652.
Nutting, Bruce W.: *See—*
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer,3,426,329.
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer,3,426,330.
Nutting, Bruce W.; and Bozarth, Milton H., Jr., to Burroughs Corporation. Single pulse switch logic circuit. 3,471,789, 10-7-69, Cl. 328-63.
Nutting Truck and Caster Company: *See—*
Jones, Vercoe C.; and Olson, Jackie L., 3,427,992.
Jones, Vercoe C., 3,478,698.
Jones, Vercoe C., 3,479,665.
Nutz, George Kaspar, to Bendix Corporation, The. Optical prism with multiple photocells. 3,478,219, 11-11-69, Cl. 250-220.
Nutzel, Karl: *See—*
Haas, Friedrich; Vohwinkel, Kurt; Nutzel, Karl; and Sutter, Hubert,3,457,218.
Nutzel, Karl; and Holzrichter, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polymers of conjugated dienes. 3,426,006, 2-4-69, Cl. 260-83.5
Nutzel, Karl; Noll, Walter; and Walaschewski, Engelbert, to Farbenfabriken Bayer Aktiengesellschaft. Partial phenylation of chlorosilanes. 3,485,863, 12-23-69, Cl. 260-448.2
N.V. Chemische Fabriek Naarden: *See—*
Toet, Hans Jacques; Maessen, Jan Theodor Marie Francois; and van der Linde, Leendert Maarten, 3,461,085.
N.V. 'COQ':*See—*
Boersma, Rintje; and Irik, Gijsbert W., 3,485,971.
N.V. Euro-Grondstof: *See—*
Schonberg, Endre, 3,438,851.
N.V. Fabriek Van Chemische Producten Vondelingenplaat: *See—*
Louis, Melis N.; and Weingarten, Deszo, 3,436,456.
Louis, Melis N.; and Weingarten, Deszo, 3,436,457.
N.V. Handelsondernemigh Ploum: *See—*
Unger, Gunther K. H. R., 3,469,329.
N.V. Hollandse Metallurgische Industrie Billiton: *See—*
Tiedema, Tiede J., 3,472,365.
N.V. Hollandse Signaalapparaten: *See—*
Bakker, Eelke Folkert, 3,436,750.
Bouman, Antonius Fredericus Mattias, 3,460,141.
Lansink, Gerrit J., 3,424,896.
Offereins, Rienk Pieter, 3,426,340.
Offereins, Rienk Pieter, 3,440,410.
van Mast, Johannes Bernardus Gerardus Scholte, 3,456,149.
van Popta, Yftinus Frederik, 3,467,963.
N.V. Imexin S.A.: *See—*
Van Goubergen, Willy, 3,436,042.
N.V. Industriele Handels Combinatie Holland: *See—*
Pot, Hendrik; and Van Baardewijk, Adam Pieter Hendrik, 3,460,692.
N.V. Koninklijke Maatschappij 'De Schelde':*See—*
Van der Hoeven, Hendrik Adriaan, 3,478,525.
N.V. Koninklijke Machinefabriek Stork: *See—*
Hendriks, Rudolf, 3,479,124.
N.V. Koninklijke Nederlandsche Zoutindustrie: *See—*
de Graaf, Johannes; and Blaauw, Albert, 3,475,489.
Kooi, Cornelis Marius; and Louissen, Antienus, 3,477,925.
Van Damme-van Weele, Marina Adriana; and de Groot, Dirk Cornelis, 3,433,590.
van Damme-van Weele, Marina Adriana; and Bernardus, Gerardus, 3,468,623.

N.V. Koninklijke Nederlandse Vliegtuigenfabriek: *See—*
Enserink, Johan, 3,435,566.
N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia: *See—*
Nauta, Wybe T., 3,433,796.
N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia: *See—*
van der Stelt, Cornelis; and Hofman, Petruo S., 3,452,053.
Van Der Stelt, Cornelis, 3,454,580.
van der Stelt, Cornelis; and Hofman, Petrus S., 3,462,447.
van der Stelt, Cornelis, 3,463,815.
N.V. Koninklijke Sphinx-Ceramique v/h Petrus, Regout: *See—*
Claessens, Frans D.; and Hein, Theodore F., 3,439,433.
N.V. Lichtdrukpapierfabriek 'De Atlas':*See—*
Nederlof, Bastiaan Klaas; Bijl, Dingeman; and van der Meij, Jan Johannes, 3,434,078.
N.V. Machinefabriek L. Te Strake: *See—*
van Mullekom, Hubert P., 3,443,603.
van Mullekom, Hubert Peter, 3,465,791.
van Mullekom, Hubert Peter, 3,465,939.
N.V. Machinefabriek Stork-Volma: *See—*
de Boer, Geert, 3,460,600.
N.V. Maschinefabriek A. Bijlenga: *See—*
van Dranen, Marinus, 3,443,485.
N.V. Maschinefabriek en Ijzergieterij 'Holland- Bergen op Zoom':*See—*
Visser, Jan C., 3,485,477.
N.V. Nederlandsche Fabriek Van Bakkerijwerktuigen Voorheen G. J. Benier: *See—*
Benier, Pieter Johannes, 3,485,187.
N.V. Nederlandsche Kabelfabrieben: *See—*
Vermeulen, Wilhelmus Georgius; and Verhoef, Leendert, 3,433,043.
N.V. Nederlandsche Kabelfabrieken: *See—*
Kreuger, Frederik Hendrik, 3,485,935.
N.V. Nederlandse Extrusie Maatschappij: *See—*
Laupman, Robert Ronald, 3,460,196.
N.V. Onderzoekingsinstituut Research: *See—*
Heij, Willem, 3,453,844.
N.V. Optische Industrie 'De Oude Delft':*See—*
Beckman, Leo Heinrich Josef Franz; Schabbink, Johannes Gerardus Bernardus; and de Heere, Gerard Andries Scheltema, 3,473,860.
Beckmann, Leo Heinrich Josef Franz, 3,487,224.
Bulthuis, Henricus Wilhelmus; and Groeneweg, Abraham, 3,454,773.
Klem, Adrianus, 3,437,749.
N.V. Plastic Industrie van Daalen: *See—*
Van Daalen, Leendert, 3,463,378.
N.V. Polychemie Aku-G.E.: *See—*
Bussink, Jam; and Brussen, Reinier Willem, 3,453,231.
N.V. Rubberfabriek Vredestein: *See—*
de Ronde, Willem, 3,459,849.
N.V. tot Aanneming van Werken voorheen H. J. Nederhorst: *See—*
Schoewert, Louis Christiaan, 3,464,665.
N.V. Werf Gusto v/h Firma A. F. Smulders: *See—*
Smulders, August Hendrik Maria, 3,484,911.
NW Controls, Inc.: *See—*
Shontz, Harry E., 3,443,452.
Nyberg, Carl. Valve member having plural flow openings. 3,457,954, 7-29-69, Cl. 137-625.28
Nyberg, David D.; and Hendricks, Willis R., to Shell Oil Company. Diene-monovinylarene block copolymer-polyolefin laminates. 3,424,649, 1-28-69, Cl. 161-253.
Nyberg, Gunnar: *See—*
Haavik, Niles Johan; and Nyberg, Gunnar,3,437,733.
Nyberg, Hugo C.L.; and Groby, Bernt H.C., to Aktiebolaget Tudor. Multicell storage battery. 3,484,299, 12-16-69, Cl. 136-134.
Nyberg, Johan Edvard, to Nybergs Mekaniska Verkstab AB. Relief valves. 3,451,416, 6-24-69, Cl. 137-108.
Nyberg, John, to International Telemeter Corporation. Billing and decoding box. 3,470,309, 9-30-69, Cl. 178-5.1
Nyberg, Stanley A.; and Yost, Joe, to Justin Belt Company. Adapter for connecting belt buckle with a belt. 3,432,895, 3-18-69, Cl. 24-265.
Nyberg, Uno: *See—*
Svensson, Erik Patrik Viktor; and Nyberg, Uno,3,447,276.
Nybergs Mekaniska Verkstab AB: *See—*
Nyberg, Johan Edvard, 3,451,416.
Nyborg, Robert N.: *See—*
Bowling, Lin W.; and Nyborg, Robert N.,3,486,285.
Nyborg, Robert N., to Kaiser Steel Corporation. Packaged assembly of modular wall elements. 3,428,170, 2-18-69, Cl. 206-60.
Nyby Bruks Aktiebolag: *See—*
Pihlblad, Karl Erik; and Wagner, Anton Robert, 3,468,657.
Nycal Company, Inc., The: *See—*
Rhoads, Martin C., 3,421,489.
Nychka, Henry R.; and Anello, Louis G., to Allied Chemical Corporation. α,τ-Bis(fluoroperhaloisopropoxy)-perfluoro- alkanes and process for preparing them. 3,435,078, 3-25-69, Cl. 260-615.
Nydam, John H., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Loom stop motion. 3,442,301, 5-6-69, Cl. 139-370.
Nydam, John H., to Marchall, John Donald, and Bomar, Horace L., as trustee of Carolina Patent Development Trust, The. Filling controlling apparatus for jet looms. 3,467,147, 9-16-69, Cl. 139-116.
Nydavist & Holm Aktiebolag: *See—*
Lindquist, Arne Herman, 3,436,055.
Nydegger, Jean. Method of ultrasonically welding pastic index characters to a plastic clock dial plate. 3,451,869, 6-24-69, Cl. 156-73.
Nydqvist & Holm Aktiebolag: *See—*
Wijkander, Svante Helmer, 3,447,783.
Wingquist, Sten Gunnar, 3,466,964.
Nye, Herman K., to Will-Burt Company, The. Automatic sandblast machine. 3,436,866, 4-8-69, Cl. 51-8.
Nye, Norman H., 50% to Medkeff, Arthur T. Method for folding and processing enclosures. 3,486,291, 12-30-69, Cl. 53-29.
Nye, Richard Alfred: *See—*
Barber, Donald Robert; and Nye, Richard Alfred,3,441,866.
Nyegaard & Co. A/S: *See—*
Holtermann, Hugo; Haugen, Leif Gunnar; Thorsdalen, Nils; Tjonneland, Knut; Wille, Knut; and Koutroulos, Jean, 3,476,802.
Nyfeler, Alex, to Electrometre S.A. Oscillatory circuit with vibratory switch. 3,444,489, 5-13-69, Cl. 335-87.
Nyfeler, Alex, to Electrometre S.A. Vibratory switching mechanism. 3,454,910, 7-8-69, Cl. 335-94.
Nyffenegger, Heinz: *See—*
Bruni, Hansrudolf; and Nyffenegger, Heinz,3,433,056.
Schmid, Alfred; and Nyffenegger, Heinz,3,420,094.
Schmid, Alfred; Nyffenegger, Heinz; and Bruni, Hansrudolf,3,482,787.
Nygren, Carl E.: *See—*
De Vries, Donald L.; and Nygren, Carl E.,3,444,053.
Nygren, Harry M.: *See—*
Cederberg, Sten; and Nygren, Harry M.,3,486,793.
Nykl, Clarence A., Jr.: *See—*
Kohls, Norman R.; Nykl, Clarence A., Jr.; and Ayres, William R.,3,480,718.
Nylin, Lennard Edward: *See—*
Jones, Robert Haldon; Nylin, Lennard Edward; and Olssen, Tor H.,3,452,369.
Jones, Robert H.; and Nylin, Lennard E.,3,422,465.
Nylonge Corporation: *See—*
Politzer, Alfred; Drtina, Otto V.; and Bedoch, Joseph S., 3,473,884.
Nylund, George J.: *See—*
Chidley, John S.; Nylund, George J.; and Dolinsky, Hyman,3,441,304.
Chidley, John S.; Nylund, George J.; and Dolinsky, Hyman,3,463,532.
Nyman, Alexander, to Mohawk Data Sciences Corporation. Clutch-brake with permanent magnets. 3,446,321, 5-27-69, Cl. 192-18.
Nyman, Alexander. Stabilized automatic mapper. 3,448,209, 6-3-69, Cl. 178-6.6
Nyman, Alexander. Automatic mapping device. 3,456,072, 7-15-69, Cl. 178-6.6
Nyman, Alexander, to Mohawk Data Sciences Corporation, mesne. Control devices employing magnetostrictive materials. 3,459,126, 8-5-69, Cl. 101-93.
Nyman, Alexander, to Mohawk Data Sciences Corporation, mesne. Rotary electrodynamic driver. 3,459,976, 8-5-69, Cl. 310-36.
Nyman, Alexander, to Mohawk Data Sciences Corporation, mesne. Hysteresis drive for high speed print hammers. 3,477,365, 11-11-69, Cl. 101-93.
Nyman, Karl-Erik: *See—*
Johansson, Jan Erik; and Nyman, Karl-Erik,3,429,129.
Nyman, William F., to Polaroid Corporation. Camera apparatus. 3,424,070, 1-28-69, Cl. 95-11.
Nypak Corporation: *See—*
Martelli, Nerio, 3,473,192.
Nypel, Inc.: *See—*
Hudson, Jesse S., 3,483,780.
Nypel of Delaware, Inc.: *See—*
Metz, Edward A., 3,475,368.
Nyquist, Bernard B., to General Electric Company. Slide-in cabinet door. 3,456,995, 7-22-69, Cl. 312-322.
Nyquist, Richard A. Typewriter for flat surfaces having a type head movable relative to a stationary base. 3,447,656, 6-3-69, Cl. 197-2.
Nyren, Robert H. Link for a portable conveyor. 3,444,973, 5-20-69, Cl. 193-35.
Nyrop, Per; and Elsken, James C., to Dorr-Oliver, Incorporated. Wash arrangement for screen centrifuges. 3,424,312, 1-28-69, Cl. 210-374.
Nys, Jean Marie: *See—*
Depoorter, Henri; Nys, Jean Marie; and Van Dormael, Andre Emile,3,438,994.
Nysco Laboratories, Inc.: *See—*
Caplan, Earl H., 3,451,535.

Caplan, Earl H., 3,463,307.
Goldman, Robert, 3,481,955.

Nyselius, Gustav, to Mt. Vernon Die Casting Corporation. Apparatus for die casting. 3,447,593, 6-3-69, Cl. 164-312.

Nyselius, Gustav, to Vasco Metals Corporation, mesne. Method of die casting. 3,461,946, 8-19-69, Cl. 164-113.

Nysten, Bernhard, to William Prym-Werke KG. Snap-fastener assembly. 3,466,714, 9-16-69, Cl. 24-208.

Nysten, Bernhard, to William Prym-Werke KG. Safety pin. 3,467,997, 9-23-69, Cl. 24-157.

Nystrand, Ernst Daniel, to Canadian International Paper Company, mesne. Vacuum conveying system and valve therefor. 3,473,800, 10-21-69, Cl. 271-74.

Nystrand, Ernst Daniel; and Bradley, John J., to Paper Converting Machine Company, Inc. Mandrel for high-speed reeling. 3,459,388, 8-5-69, Cl. 242-68.5

Nystrom, Charles A. Pneumatic chip ejector. 3,430,811, 3-4-69, Cl. 222-3.

Nystrom, Charles E.: *See*—
Gelzheiser, Francis L.; and Nystrom, Charles E.,3,467,933.

Nystrom, Olof Birger, to Sunds Akticbolag. Wet presses. 3,460,467, 8-12-69, Cl. 100-121.

Nystrom, Roy: *See*—
Goldstein, David A.; Nystrom, Roy; Borchert, Alfred; and Encman, Melvin,3,485,172.

Nystrom, Wilford O., to Morton Manufacturing Company. Hanger assembly for sliding vehicle door. 3,466,698, 9-16-69, Cl. 16-87.

Nytronics, Inc.: *See*—
Goldsmith, Bernard M.; Pike, Harold S., Jr.; and Belanger, Ernest Donald, 3,423,674.
Lupfer, David A., 3,457,539.

Nyul, Paul: *See*—
Lamorte, Michael F.; and Nyul, Paul,3,471,923.

Oak, Cecil R., to United States of America, Atomic Energy Commission. Fuel element positioner. 3,448,872, 6-10-69, Cl. 214-23.

Oak Electro/Netics Corporation: *See*—
Osborn, Raymond L., 3,469,194.
Richardson, Lonnie J., 3,459,903.

Oakes, E. T., Corporation, The: *See*—
Baker, Donald Ernest, 3,456,599.

Oakes, Edward W. Surface profile method. 3,481,041, 12-2-69, Cl. 33-170.

Oakes, Efton O.: *See*—
Crenshaw, Walter J.; Hicks, Hoke S.; and Oakes, Efton O.,3,463,199.

Oakes, Grant A.; and Cetrone, Vincent B. Rolling mill entry guides. 3,446,052, 5-27-69, Cl. 72-250.

Oakes, Leland F. Universal clamp assembly for bed hand rails. 3,476,346, 11-4-69, Cl. 248-226.

Oakes, Lloyd; Wakeam, Ralph D.; and Hartwell, Sidney J., to Allis-Chalmers Manufacturing Company. Tap changing voltage regulator having means for selecting limits of tap changer motion. 3,427,530, 2-11-69, Cl. 323-43.5

Oakes, Vincent; Hutton, Ronald Eric; and Tonge, Brian Lawrence, to Pure Chemicals Limited. Process for preparing dickyltin oxides and hydroxides. 3,448,130, 6-3-69, Cl. 260-429.7

Oakite Products Inc.: *See*—
Frey, Samuel S., 3,446,715.

Oakite Products, Inc.: *See*—
Catanco, Ralph J.; and Oakite Products, Inc.,3,429,823.

Oakland Community College: *See*—
Hobson, James W., 3,451,738.
Montgomery, Robert R., 3,426,447.
Schmidt, Arthur D.; and Shuert, Keith L., 3,461,572.

Oakland Corporation, The: *See*—
Wallace, Richard B., 3,478,800.

Oakley, Michael J.; and Oakley, Monica V. Blow molded battery. 3,424,623, 1-28-69, Cl. 136-176.

Oakley, Monica V.: *See*—
Oakley, Michael J.; and Oakley, Monica V.,3,424,623.

Oaks, Dudley M., Jr.: *See*—
Dimick, Keene P.; Hartmann, Charles H.; Oaks, Dudley M., Jr.; and Trone, Elmer,3,423,181.

Oas, David B. Mop head. 3,457,581, 7-29-69, Cl. 15-147.

Oates, Alex N.; and Edmonds, James T., Jr., to Phillips Petroleum Company. Poly (arylene sulfide) resins. 3,487,454, 12-30-69, Cl. 260-900.

Oates, Norford L., to Smith-Berger Manufacturing Corporation. Fish beheading and cleaning machine. 3,469,278, 9-30-69, Cl. 17-59.

Oates, Norford L.; and Karr, Robert I., to Smith-Berger Manufacturing Corporation. Fish-cleaning machine drive mechanism. 3,456,287, 7-22-69, Cl. 17-59.

Oates, William L., to RCA Corporation. Probe assembly for testing semiconductor wafers including a wafer vibrator for effecting good connections. 3,453,545, 7-1-69, Cl. 324-158.

Oatey Co.: *See*—
Kifer, David E., 3,436,880.

Oatfield, John C.; Davis, Samuel J.; and Couick, John W., to Monsanto Company. Tensionless bulking apparatus and method. 3,457,602, 7-29-69, Cl. 28-1.

Oatfield, John C.: *See*—
Emerson, Paul D.; Engelman, Fred H.; Baggett, Frank A.; and Oatfield, John C.,3,477,661.

Oatman, Edward T.; and Oatman, Helen M. Sterile hydrotherapy bath. 3,441,015, 4-29-69, Cl. 128-66.

Oatman, Helen M.: *See*—
Oatman, Edward T.; and Oatman, Helen M.,3,441,015.

Obadal, Richard D.: *See*—
Davis, Lewis K.; and Obadal, Richard D.,3,464,717.

O'Bannon, Richard M. Combined liquid dispenser and liquid level indicator. 3,434,513, 3-25-69, Cl. 141-95.

Obata, Haruyuki: *See*—
Toda, Tadahide; Gotoh, Kenji; and Obata, Haruyuki,3,450,115.
Toda, Tadahide; Yamada, Mitsumasa; and Obata, Haruyuki,3,439,703.

Obear, Robert F.: *See*—
Schanafelt, Raymond A.; Obear, Robert F.; and Milnikel, Clarence E.,3,421,266.

Obeda, Edward G., to Branson Instruments, Incorporated. Method and apparatus for bonding together a plurality of insulated electrical conductors by sonic energy. 3,440,118, 4-22-69, Cl. 156-73.

Obeda, Edward G., to Branson Instruments, Incorporated. Method and apparatus for sonically sealing the end portion of thermoplastic tubular containers. 3,468,731, 9-23-69, Cl. 156-73.

Obendorf, Werner; and Lindner, Irmgard, to Osterreichische Stickstoffwerke Aktiengesellschaft. 2,4,6-Triiodo-isophthalic acid amides. 3,453,322, 7-1-69, Cl. 260-518.

Obendorf, Werner; and Lindner, Irmgard, to Osterreichische Stickstoffwerke Aktiengesellschaft. 3-Amino-2,4,6-triiodobenzoic acid derivatives. 3,484,481, 12-16-69, Cl. 260-518.

Obenhaus, Robert E.: *See*—
Buiting, Francis P.; and Obenhaus, Robert E.,3,457,460.

Obenschain, Arthur W., to United States of America, Navy. Magnetometer core and process of making the same. 3,419,958, 1-7-69, Cl. 29-602.

Obenshain, David Noel, to West Virginia Pulp and Paper Company. Split machinery hub. 3,445,130, 5-20-69, Cl. 287-52.03

Ober, Robert F., Sr. Sliding sash assembly with storm window. 3,427,747, 2-18-69, Cl. 49-162.

Oberdorfer, Karl: *See*—
Walter, Wallace F.; and Oberdorfer, Karl,3,430,278.

Oberender, Frederick G.; Godfrey, Arthur W.; and Wiley, Morris A., to Texaco Inc. Synthetic lubricating composition. 3,476,685, 11-4-69, Cl. 252-46.7

Oberender, Frederick G.: *See*—
Millendorf, Alfred J.; and Oberender, Frederick G.,3,428,662.

Oberg, Fred N.: *See*—
Fitzhugh, Edward F., Jr.; Seidel, Don C.; and Oberg, Fred N.,3,473,920.

Oberg, Hugh E., 25% to Fasano, Frank 25% to Giusti, Edmund C. Amphibious vehicle. 3,421,472, 1-14-69, Cl. 115-1.

Oberg, Nathan: *See*—
Heimann, Bernard; Duncan, Lloyd P.; and Oberg, Nathan,3,482,593.

Oberg, Paul E., to Sperry Rand Corporation. Synthetic bulk element having thin ferromagnetic film switching characteristics. 3,470,550, 9-30-69, Cl. 340-174.

Oberg, Paul E., to Sperry Rand Corporation. Synthetic bulk element having thin-ferromagnetic- film switching characteristics. 3,480,926, 11-25-69, Cl. 340-174.

Oberg, Paul E.: *See*—
Hanson, Marlin M.; Harvey, William A.; and Oberg, Paul E.,3,446,936.

Oberg, Victor H. Synchronous switch remote control system. 3,465,324, 9-2-69, Cl. 343-225.

Obergefell, Ronald F.: *See*—
Rudd, Charles F.; and Obergefell, Ronald F.,3,430,010.

Obergfell, Allen R.: *See*—
Gallee, George J.; Obergfell, Allen R.; and Doyle, Richard H.,3,438,487.

Obergfell, Allen R., to Fastener Corporation. Piston and driver assembly for fluid operated fastener driving tools. 3,447,426, 6-3-69, Cl. 92-175.

Oberhardt, Bruce J. Prothrombin time determination. 3,450,501, 6-17-69, Cl. 23-253.

Oberholtzer, Alton V. Method of impregnating porous inert bodies, pro- longing water evaporation of land surfaced water bodies therewith, and products therefor. 3,446,571, 5-27-69, Cl. 21-60.5

Oberle, Artur, to Aktiengesellschaft Brown, Boveri & Cie. Hydrostatic axial bearing. 3,453,032, 7-1-69, Cl. 308-9.

Oberle, Theodore L.: *See*—
Calton, Marion R.; Oberle, Theodore L.; and Weiss, Carl D.,3,477,117.
Farmer, Charels G.; Loyd, Calvin D.; Miller, Robert G.; and Oberle, Theodore L.,3,462,826.

Oberle, Theodore L.; and Calton, Marion R., to Caterpillar Tractor Company. Turbochargers. 3,421,201, 1-14-69, Cl. 29-470.3

Oberle, Theodore L.; Calton, Marion R.; and Loyd, Calvin D., to Caterpillar Tractor Company. Apparatus for controlling flash during friction bonding. 3,452,914, 7-1-69, Cl. 228-2.

Oberle, Theodore L.; Calton, Marion R.; Loyd, Calvin D.; and White, Claude F., to Caterpillar Tractor Company. Bonding. 3,435,510, 4-1-69, Cl. 29-470.3
Oberlin, Robert E., to Du Pont de Nemours, E. I., and Company. Process for making high strength refractory structures. 3,473,938, 10-21-69, Cl. 106-57.
Obermaier, Frank E.: *See*—
Kelly, Douglas E.; and Obermaier, Frank E.,3,420,579.
Oberman, Joel R.: *See*—
Fow, Robert S.; and Oberman, Joel R.,3,425,021.
Obermann, George, to Controls Company of America. Timer switch actuation and connection. 3,431,372, 3-4-69, Cl. 200-38.
Obermayer, Arthur S.: *See*—
Nichols, Larry D.; and Obermayer, Arthur S.,3,481,945.
Nichols, Larry D.; Obermayer, Arthur S.; and Panar, Manuel,3,449,449.
Obermayer, S., Company, The: *See*—
Jacobs, Louis J.; Klaudinyi, Bela; and Fisher, Robert Earl, 3,426,834.
Obermoser, Karl. Friction coupling. 3,447,642, 6-3-69, Cl. 188-78.
Oberrauch, Hans: *See*—
Frohlich, Walter; Oberrauch, Hans; and Fischer, Kurt,3,444,205.
Oberrender, Girard F.: *See*—
Kane, Frank A., Jr., 3,446,195.
O'Berry, Richard V.; and Shuler, William R., to Star Paper Tube, Inc. Method of making a carrier for forming wound packages. 3,471,350, 10-7-69, Cl. 156-184.
Oberschmidt, Mike: *See*—
Rosenbaum, Bernard J.; Oberschmidt, Mike; and Fitzgerald, John J.,3,425,276.
Oberster, Arthur E.; and Smith, George E. P., Jr., to Firestone Tire & Rubber Company, The. Rubber stabilized with a mixture of p-phenylenediamines. 3,424,713, 1-28-69, Cl. 260-45.9
Oberster, Arthur E.: *See*—
Sarett, Lewis H.; Bry, Thomas S.; Fried, John; Oberster, Arthur E.; and Beyler, Roger E.,3,452,007.
Oberthur, Heinrich: *See*—
Botterill, John R.; Klein, Hans-Christof; and Oberthur, Heinrich,3,449,017.
Oberthur, Heinrich, to Alfred Teves G.m.b.H. Load-responsive brake-force proportioning device for vehicular brake system. 3,442,557, 5-6-69, Cl. 303-22.
Oberthur, Heinrich, to Teves, Alfred, GmbH. Brake-force regulator. 3,456,443, 7-22-69, Cl. 60-54.5
Oberthur, Heinrich, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Dual-network hydraulic system and valve arrangement for controlling same. 3,459,000, 8-5-69, Cl. 60-54.5
Oblander, Kurt, to Daimler-Benz Aktiengesellschaft. Installation for reducing the noxious exhaust gas emission of internal combustion engines. 3,461,850, 8-19-69, Cl. 123-122.
Oblonsky, Jan: *See*—
Svoboda, Antonin; Oblonsky, Jan; and Korvas, Zdenek,3,434,118.
Obra, Bart R. Vehicle conversion. 3,420,566, 1-7-69, Cl. 296-23.
O'Brien, Angus J., to Gar Wood Industries, Inc. Closure operator. 3,440,763, 4-29-69, Cl. 49-280.
O'Brien, Angus J.; and McCarthy, John, to Gar Wood Industries, Inc. Refuse vehicle. 3,486,646, 12-30-69, Cl. 214-82.
O'Brien Corporation, The: *See*—
Miranda, Thomas J.; and Herman, Herbert R., 3,438,943.
O'Brien, David F.: *See*—
McBride, Clarence E.; O'Brien, David F.; and Gates, John W., Jr.,3,459,549.
O'Brien, Edward J., to Spraying Systems Co. Adjustable multiple fluid atomizing nozzle. 3,421,702, 1-14-69, Cl. 239-418.
O'Brien, Eugene L.: *See*—
Fein, Marvin M.; Green, Joseph; and O'Brien, Eugene L.,3,431,234.
O'Brien, Francis E.; and Kuhnel, Alexander H., to United States Steel Corporation. Photoelectric diameter measurer wherein pulse width is a measure of diameter. 3,448,278, 6-3-69, Cl. 250-219.
O'Brien, George A., to Kinkead Industries, Incorporated. Shower enclosure track assembly. 3,422,464, 1-21-69, Cl. 4-154.
O'Brien, George A.: *See*—
Glejf, Robert G.; and O'Brien, George A.,3,441,076.
O'Brien, George R.: *See*—
Edelson, Stanley; and O'Brien, George R.,3,432,875.
O'Brien, James Quinlan. Thermostatic valves for controlling the flow of fluids. 3,450,344, 6-17-69, Cl. 236-48.
O'Brien, James W.: *See*—
Beals, Duane E.; Berchtold, Donald R.; O'Brien, James W.; Rosenberger, Paul C.; Sieving, Alfred W.; and Smith, Kerwyn B.,3,448,816.
O'Brien, Jeremiah Wagner, to United Engineering and Foundry Company. Method of and apparatus for rebending strip-like material. 3,421,352, 1-14-69, Cl. 72-146.
O'Brien, Jeremiah Wagner, to United Engineering and Foundry Company. Rolling mill. 3,425,249, 2-4-69, Cl. 72-12.
O'Brien, Jeremiah Wagner, to United Engineering and Foundry Company. Hydro-mechanical gauge control system for a rolling mill and like device. 3,435,649, 4-1-69, Cl. 72-19.
O'Brien, Jeremiah Wagner, to United Engineering and Foundry Company. Rolling mills. 3,446,050, 5-27-69, Cl. 72-239.
O'Brien, Jeremiah Wagner; and O'Keefe, John Thomas, to United Engineering and Foundry Company. Miscut mechanism for shears. 3,420,084, 1-7-69, Cl. 72-203.
O'Brien, Jeremiah Wagner, to United Engineering and Foundry Company. Constant gap rolling mill. 3,431,762, 3-11-69, Cl. 72-19.
O'Brien, Jeremiah Wagner, to United Engineering and Foundry Company. Expandable mandrel. 3,443,770, 5-13-69, Cl. 242-72.1
O'Brien, John C. Apparatus for assembling plywood veneers. 3,483,065, 12-9-69, Cl. 156-563.
O'Brien, John F.; and Broughton, Donald R., to Catalysts and Chemicals, Inc. Oxidation catalyst. 3,480,564, 11-25-69, Cl. 252-435.
O'Brien, John J., to Olin Mathieson Chemical Corporation. Fastener and attachment therefor. 3,452,637, 7-1-69, Cl. 85-10.
O'Brien, John J.; and Irbrahim, Ghazi Z., to Grace, W. R., & Co. Method of vacuum casting employing a high temperature sealing composition. 3,430,679, 3-4-69, Cl. 164-65.
O'Brien, Joseph Francis. Portable enclosure. 3,469,822, 9-30-69, Cl. 256-25.
O'Brien, Joseph L.: *See*—
White, Robert W.; and O'Brien, Joseph L.,3,453,327.
O'Brien, Larry H.: *See*—
Burnsweig, Joseph, Jr.; and O'Brien, Larry H.,3,435,342.
O'Brien, Lawrence H.; and Jamison, Richard S., to Hughes Aircraft Company. Microwave power adder circuit. 3,434,148, 3-18-69, Cl. 343-858.
O'Brien, Lawrence H., to Hughes Aircraft Company. Magnetic pulse modulator. 3,432,679, 3-11-69, Cl. 307-88.
O'Brien, Merrill N., Jr.; and Berardinelli, Frank M., to Celanese Corporation. Oxymethylene polymer compositions containing carbon black. 3,442,850, 5-6-69, Cl. 260-37.
O'Brien, Merrill N., Jr.; and Berardinelli, Frank M., to Celanese Corporation. Stabilization of oxymethylene copolymers with diphenylamine acetone condensation products. 3,444,265, 5-13-69, Cl. 260-857.
O'Brien, Orlin Patrick. Intrauterine muscle activity measuring system. 3,474,776, 10-28-69, Cl. 128-2.
O'Brien, Paul R., to Reynolds Metals Company. Metal forming system. 3,478,560, 11-18-69, Cl. 72-253.
O'Brien, Raymond O. Cigarette lighter. 3,454,742, 7-8-69, Cl. 219-262.
O'Brien, Richard C.: *See*—
Proud, Ralph A., Jr.; O'Brien, Richard C.; Graubert, Seth; and Goldstein, Theodore J.,3,470,539.
O'Brien, Robert E., to Kirkhof Manufacturing Corporation. Formed plastic article de-sliver unit. 3,420,004, 1-7-69, Cl. 51-5.
O'Brien, Samuel James; and Van Loo, William Julius, Jr., to American Cyanamid Company. Rayon tire cord finish. 3,458,989, 8-5-69, Cl. 57-153.
O'Brien, Samuel J.; Beachem, Michael T.; and Megson, Frederic H., to United States of America, Army, mesne. Method for imparting antivesigant properties to fabric. 3,482,927, 12-9-69, Cl. 8-116.3
O'Brien, Stephen; Janes, William Henry; Taylor, Keith Andrew; and Todd, Peter Frank, to Imperial Chemical Industries Limited. Polymerization process. 3,436,383, 4-1-69, Cl. 260-88.7
O'Brien Textiles Corporation: *See*—
Sullivan, Bernard E., 3,424,304.
O'Brien, Thomas J. Silencer with means for spraying sheets of soapy water and air around exhaust stream. 3,442,350, 5-6-69, Cl. 181-42.
O'Brien, Walter F.,50% to Cucchiara, Philip M. Jack and tongue construction for harpsichords and the like. 3,453,922, 7-8-69, Cl. 84-258.
O'Brien, Willaim H., to Leesona Corporation. Traverse roll. 3,480,217, 11-25-69, Cl. 242-43.2
O'Brien, William Joseph, to Decca Limited. Low frequency radio transmitter radiating pulse signals. 3,458,816, 7-29-69, Cl. 325-123.
O'Brien, William Joseph, to Decca Limited. Phase comparison radio navigation systems. 3,474,448, 10-21-69, Cl. 343-105.
O'Brien, William Joseph; and Hendley, Dennis Alfred, to Decca Limited. Hyperbolic radio navigation systems of the phase comparison type. 3,465,340, 9-2-69, Cl. 343-105.
Obrowski, Walter; Bornig, Karl-Heinz; and Schrufer, Elmar, to Licentia Patent-Verwaltungs-G.m.b.H., and Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Apparatus and method for constructing apparatus for measurement of neutron flux. 3,444,373, 5-13-69, Cl. 250-83.1
Obst, Hermann Valentin. Scoring device. 3,468,535, 9-23-69, Cl. 273-14.
Obszarny, Thedore J.: *See*—
Canty, Edgar P.; and Obszarny, Thedore J.,3,467,986.

Obu, Misao: *See—*
Yonezaki, Shigeru; Obu, Misao; and Asakawa, Kenichi,3,457,097.

Obuchi, Kazuo; and Kato, Harunobu, to Fuji Shashin Film Kabushiki Kaisha. Developing device for electrophotography. 3,451,376, 6-24-69, Cl. 118-637.

Occidental Research & Engineering Limited: *See—*
Mustian, William R., Jr., 3,453,074.
Mustian, William Roy, Jr.; and Austin, James, 3,442,610.

Ocean Research and Manufacturing Company, Inc.: *See—*
Mosvold, Gordon, 3,461,829.

Ocean Science and Engineering, Inc.: *See—*
Frye, Irvin S., 3,468,123.
Horton, Edward E., 3,469,820.
Horton, Edward E., 3,472,191.

Ocean Spray Cranberries, Inc.: *See—*
Coneybear, J. Frank; Chandler, Charles H.; and Andrisin, John J., Jr., 3,463,311.

Ocean Systems, Inc.: *See—*
Gray, John W., 3,485,960.

Oceanographic Ventures Inc.: *See—*
Miller, William G., 3,474,243.

Ocheretin, Ivan Vasiljevich: *See—*
Khachijan, Alexei Sergeevich; Skuinj, Alexandr Kasparovich; Lekhovitser, Moisei Alexandrovich; Linich, Viktor Vladimirovich; Shapovalov, Sergei Vasiljavich; and Ocheretin, Ivan Vasiljevich,3,480,418.

Ochi, Hiroshi; Taki, Hiroshige; Sugimoto, Kimio; Hayase, Yoshimi; and Nakazawa, Bungo, to Ibigawa Electric Industry Co., Ltd, and Asahi Glass Co., Ltd. Method of casting a thin resin film lining into a mold surface and the product. 3,420,733, 1-7-69, Cl. 161-231.

Ochi, Shigeyuki: *See—*
Hayashi, Chisayo; Chiba, Yusuke; Tanaka, Eiji; Ochi, Shigeyuki; Yanagisawa, Yuzuru; and Ayabe, Masaaki,3,469,294.

Ochi, Toshiharu: *See—*
Fukushima, Osamu; Noda, Kazuo; Kishida, Tamon; and Ochi, Toshiharu,3,483,015.

Ochiai, Noriomi, to Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.). Shell-type Luneberg lens. 3,465,362, 9-2-69, Cl. 343-911.

Ochiai, Shigeru. Piezoelectric ignition element with an actuator. 3,466,474, 9-9-69, Cl. 310-8.7

Ochiai, Shigeru; and Morimitsu, Kazuyoshi. Piezoelectric element ignition device. 3,475,654, 10-28-69, Cl. 317-81.

Ochiai, Yoriyasu. Belt and buckle. 3,466,668, 9-16-69, Cl. 2-322.

Ochla, Siegfried: *See—*
Olsen, Willi; Ochla, Siegfried; and Lieske, Manfred,3,440,381.

Ochlossman, Irwin: *See—*
Winnick, Charles N.; and Ochlossman, Irwin,3,456,021.

Ochonicky, Robert P., to Continental Sensing Incorporated. Heater calculator. 3,436,014, 4-1-69, Cl. 235-78.

Ochs, Charles S., to Anchor Hocking Glass Corporation. Closure cap selector chute. 3,444,983, 5-20-69, Cl. 198-33.

Ochs, Charles S., to Anchor Hocking Glass Corporation. Vacuum detecting apparatus for sealed containers. 3,465,878, 9-9-69, Cl. 209-80.

Ochs, Thaddeus M. Wheel flap. 3,473,825, 10-21-69, Cl. 280-154.5

Ochsner, Paul Albert: *See—*
Naves, Yves Rene; and Ochsner, Paul Albert,3,461,138.

Ochtera, Stanley W. Inflatable wig support. 3,433,395, 3-18-69, Cl. 223-67.

Ochylski, Edward. Animal dehider. 3,423,789, 1-28-69, Cl. 17-21.

Ocker, Herbert W. G., to Werner & Pfleiderer. Installation for extracting liquid from vegetable matter. 3,450,034, 6-17-69, Cl. 100-117.

Ocker, Herbert Wilhelm Gustav, to Werner & Pfleiderer. Process and device for producing solid explosives and propellants from humid initial mixtures. 3,423,841, 1-28-69, Cl. 34-14.

Ocker, Herbert Wilhelm Gustav, to Werner & Pfleiderer. Screw conveyor with venting stacks. 3,427,728, 2-18-69, Cl. 34-183.

Ockermn, John B., to E&B Incorporated. Seawater battery having magnesium or zinc anode and manganese dioxide cathode. 3,433,678, 3-18-69, Cl. 136-100.

Ockershauser, Karl F.: *See—*
Surletta, Zygmunt M.; Ockershauser, Karl F.; and Koziatek, Jerry P.,3,451,073.

Ocone, Luke Ralph: *See—*
Huber, Ludwig Konrad; and Ocone, Luke Ralph,3,442,612.
Huber, Ludwig Konrad; and Ocone, Luke Ralph,3,454,361.

O'Connell, Anthony James:*See—*
Bell, George; and O'Connell, Anthony James,3,476,666.

O'Connell, Daniel J., to Erie Strayer Company. Tilting concrete mixer. 3,421,744, 1-14-69, Cl. 259-171.

O'Connell, Edward D.; and O'Connell, Kathryn M. Fishing gaff. 3,477,163, 11-11-69, Cl. 43-5.

O'Connell, James A.; Zaratkiewicz, Edwin A.; and Curnan, Hugh J., to International Telephone and Telegraph Corporation. Apparatus for chemical adjustment of film components. 3,481,306, 12-2-69, Cl. 118-8.

O'Connell, John Daniel; and Stockholm, Robert Q. Coping for wall of lined swimming pool. 3,427,663, 2-18-69, Cl. 4-172.

O'Connell, Kathryn M.:*See—*
O'Connell, Edward D.; and O'Connell, Kathryn M.,3,477,163.

O'Connell, Philip E., to RCA Corporation. Spindle adapter. 3,477,727, 11-11-69, Cl. 274-10.

O'Connell, Raymond F. Surface attachable receptacle. 3,476,257, 11-4-69, Cl. 211-13.

O'Connell, Robert A.:*See—*
Cornell, Dudley E., III; and O'Connell, Robert A.,3,477,142.

O'Connell, Thomas B.:*See—*
Oelke, Waldemar W.; Carson, Frank J.; Badger, Alfred E.; and O'Connell, Thomas B.,3,477,840.

O'Connell, Thomas B.; and Herrington, Richard A., to Libbey-Owens-Ford Glass Company. Glass sheet tempering apparatus. 3,454,389, 7-8-69, Cl. 65-351.

O'Connor, Alton J., to Walbro Corporation. Magnetic drive pump. 3,470,824, 10-7-69, Cl. 103-42.

O'Connor, Charles A.:*See—*
O'Connor, Charles A., 3,463,036.

O'Connor, Charles A.,1/2 to O'Connor, Charles A., and 1/2 to Maehr, Richard J., mesne. Automatic drilling device. 3,463,036, 8-26-69, Cl. 77-32.3

O'Connor, Donald T.:*See—*
Flaherty, John J.; and O'Connor, Donald T.,3,480,002.
Gruetzmacher, Ralph W.; Mc Clurg, Glenn O.; and O'Connor, Donald T.,3,465,242.

O'Connor, Donald T., to Magnaflux Corporation. Fluid coupled ultrasonic transducer unit. 3,485,088, 12-23-69, Cl. 73-67.8

O'Connor, Francis M.:*See—*
Bailey, Donald L.; and O'Connor, Francis M.,3,480,583.

O'Connor, George L.; and Foster, Donald J., to Union Carbide Corporation. Heavy duty detergent compositions. 3,442,811, 5-6-69, Cl. 252-138.

O'Connor, James G., to United Aircraft Corporation. Starting system for gas turbine engines. 3,426,527, 2-11-69, Cl. 60-39.14

O'Connor, John W., to Allis-Chalmers Manufacturing Company. Hydraulic motor driven steerable wheel. 3,469,646, 9-30-69, Cl. 180-43.

O'Connor, Leonard N., to Friden, Inc. Chad disposal device. 3,484,824, 12-16-69, Cl. 234-131.

O'Connor, Martin J.:*See—*
Floyd, John D.; and O'Connor, Martin J.,3,458,442.
Floyd, John D.; and O'Connor, Martin J.,3,484,229.

O'Connor, Michael Niall:*See—*
Saunders, Kenneth Worden; and O'Connor, Michael Niall,3,442,879.

O'Connor, Patrick J.; and Maglaughlin, Edward P., to Celanese Corporation. Purification of ketones. 3,449,436, 6-10-69, Cl. 260-593.

O'Connor, Ralph John:*See—*
Callahan, Howard Edward; and O'Connor, Ralph John,3,424,647.

O'Connor, Thomas J.:*See—*
Dropkin, David; O'Connor, Thomas J.; Cass, Le A.; and Comfort, Edward H.,3,453,880.

O'Connor, Thomas J. Quick-change tool for electrical machining of deep holes. 3,435,178, 3-25-69, Cl. 219-69.

O'Connor, Thomas J. Quick-change tool for electrical-erosion machining of an arcuate opening. 3,461,267, 8-12-69, Cl. 219-69.

O'Connor, Thomas J. Vibratory electric arc drill. 3,469,056, 9-23-69, Cl. 219-69.

O'Connor, Thomas J. Machine tool for electrical erosion machining. 3,469,058, 9-23-69, Cl. 219-69.

O'Connor, Thomas J. Quick-change tool for spark cutting apparatus. 3,479,479, 11-18-69, Cl. 219-69.

O'Connor, Thomas J. Quick-change tool for electrical erosion machining. 3,485,991, 12-23-69, Cl. 219-69.

O'Connor, Thomas J., to Easco Products, Inc. Method of and apparatus for electric discharge machining with air dielectric. 3,427,423, 2-11-69, Cl. 219-69.

O'Connor, Thomas J. Quick-change tool for electrical machining including structure for simultaneously eccentrically rotating and revolving an electrode. 3,430,026, 2-25-69, Cl. 219-69.

O'Connor, Thomas J. Quick-change tool for electrical erosion machining. 3,443,054, 5-6-69, Cl. 219-69.

O'Connor, Thomas L.; and Bourgault, Jean Paul, to Cabot Corporation. Latex paint compositions. 3,449,271, 6-10-69, Cl. 260-17.

O'Connor, Thomas L.; Fredrickson, John B.; and Rosenberg, Norman W., to Ionics, Incorporated. Metal to metal bonds with cuprous halide melts. 3,475,143, 10-28-69, Cl. 29-195.

O'Connor, Ward F., to Lummus Company, The. Infrared detecting device. 3,467,175, 9-16-69, Cl. 165-11.

O'Connor, William W., to Motorola, Inc. Dual transistor current limiter. 3,437,838, 4-8-69, Cl. 307-237.

O'Conor, Frank, to Ametek, Inc. Continuous centrifugal separator with pool depth control. 3,423,015, 1-21-69, Cl. 233-7.

O'Conor, Frank, to Ametek Inc. Acid feed pipe. 3,471,081, 10-7-69, Cl. 233-14.

Octel S.A.: *See—*
Peres, Robert L., 3,465,767.

Ocule, Oreste, to Simit Societa per Azioni. Fluid pressure transmissions for propelling vehicles. 3,442,344, 5-6-69, Cl. 180-6.3
Oculus-Optikgerate G.m.b.H.: *See*—
Kirchhubel, Kurt, 3,451,747.
Oda, Akira. Coating compositions and process of preparing the same. 3,468,834, 9-23-69, Cl. 260-32.8
Oda, Kenichi; and Ishihara, Yoshimi, to Central Research Institute of Electirc Power Industry. Method for removing sulfur dioxide from flue gases of a combustion furnace. 3,481,289, 12-2-69, Cl. 110-1.
Oda, Kenzo: *See*—
Kurata, Naoji; Matsumoto, Takehiko; Ohara, Takashi; and Oda, Kenzo,3,487,109.
Kurata, Naoji; Ohara, Takashi; and Oda, Kenzo,3,475,488.
Oda, Ryohei; Fujii, Hiroshi; and Moriga, Hiroyuki. Phthalide compounds. 3,431,282, 3-4-69, Cl. 260-343.4
Oda, Takahiko A.: *See*—
Gilligan, William H.; and Oda, Takahiko A.,3,474,145.
Oda, Takeshi: *See*—
Fujiwara, Goro; Oda, Takeshi; Todo, Nobuyoshi; and Yajima, Yukio,3,436,342.
Oda, Teishiro; and Nakamura, Makoto, to Mitsubishi Jukogyo Kabushiki Kaisha. Cobalt base alloy. 3,486,886, 12-30-69, Cl. 75-170.
Oda, Zenjiro; Saito, Koichi; Asamaki, Tatsuo; and Mori, Tokio, to Nippon Electric Company Limited. Stabilized low pressure triode sputtering apparatus. 3,436,332, 4-1-69, Cl. 204-298.
Oda, Zenjiro; and Sakai, Tadashi, to Nippon Electric Company Limited. Metal sleeve ionization gauge having controlled spacing between grid and shield electrodes for Optimization of sensitivity. 3,424,936, 1-28-69, Cl. 313-240.
Odagaki, Fukuichi: *See*—
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; and Odagaki, Fukuichi,3,460,353.
O'Daniel, Jerome B.:*See*—
Greer, Donald L.; O'Daniel, Jerome B.; and Yosmali, Krikor,3,451,520.
Odawara, Daisaku. Rotary machine of blade type. 3,437,079, 4-8-69, Cl. 123-16.
O'Day, Arthur J.:*See*—
O'Day, Arthur J.; and Ricker, Dennis J., 3,465,665.
O'Day, Arthur J.; and Ricker, Dennis J.,75% to O'Day, Arthur J., and 12 1/2% to Ricker, Dennis J., and 12 1/2% to Gelofcsak, George. Safety pilot switch. 3,465,665, 9-9-69, Cl. 98-1.
Odden, La Verne M., to General Mills, Inc. Milling process for rye. 3,430,869, 3-4-69, Cl. 241-9.
Oddo, Irene E. Spring actuated device for throwing soft substances. 3,455,287, 7-15-69, Cl. 124-16.
Oddo, Joseph A.: *See*—
Grimme, Brooks H.; and Oddo, Joseph A.,3,445,678.
Oddo, Nino: *See*—
Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino,3,422,069.
Oddo, Vincent J., Jr. Partial denture with movable-arm clasp and method of making the same. 3,436,825, 4-8-69, Cl. 32-5.
Oddy, Edward P., to Borg-Warner Corporation. Heat exchanger. 3,437,134, 4-8-69, Cl. 165-151.
Oddy Engineering Limited: *See*—
Oddy, Frederick W., 3,446,161.
Oddy, Frederick W., to Oddy Engineering Limited. Apparatus for transferring dough from a supply source to a receiving station. 3,446,161, 5-27-69, Cl. 107-15.
Ode, Helmer: *See*—
Closmann, Philip J.; and Ode, Helmer,3,448,801.
Odebo, Nils Einar: *See*—
Andblad, Kjell Ingemar; Anvarn, Verner Valfrid; Samuelsson, Rune Paul; Odebo, Nils Einar; and Wetterberg, Erik Ernst Waldemar,3,481,107.
Odekerken, Jules Marie. Method for covering objects with a decorative bright nickel/chromium coating, as well as objects covered by applying this method. 3,449,223, 6-10-69, Cl. 204-41.
Odell, Allen E., to Phillips Petroleum Company. Method for forming a substantially warp- free interiorally foamed, thermoplastic article. 3,468,990, 9-23-69, Cl. 264-45.
Odell, Horace B., to Prime Manufacturing Company. Rib stripping. 3,441,467, 4-29-69, Cl. 161-99.
O'Dell, Walden H., Jr.:*See*—
O'Dell, Walden H., Sr.; and O'Dell, Walden H., Jr.,3,462,114.
O'Dell, Walden H., Sr.; and O'Dell, Walden H., Jr. Lug screw for construction forms. 3,462,114, 8-19-69, Cl. 249-195.
Oden, Jerome H.: *See*—
Castro, Luis F.; Keithahn, Julian D.; Leutwyler, Kurt; and Oden, Jerome H.,3,472,275.
Oden, Kenneth W., to Dixie-Narco, Inc. Serpentine can vender mechanism. 3,464,589, 9-2-69, Cl. 221-295.
Odenbach, Heinz: *See*—
Siefert, Roland; and Odenbach, Heinz,3,433,012.
Odenberg, Richard; and Jameson, William L., to Research III, Inc. Electrical circuit protector. 3,475,653, 10-28-69, Cl. 317-16.
Odendahl, Wilhelm. Method of reducing fluid pressure and device for same. 3,469,591, 9-30-69, Cl. 137-14.
O'Dennell, Thomas P.:*See*—
Austin, Lewis M.; Denman, Robert R.; O'Dennell, Thomas P.; and Veres, Frank,3,484,328.
Odenweller, Joseph D., to Ethyl Corporation. Halogenation of ortho alpha-branched alkylphenols in a nitroparaffin solvent. 3,471,578, 10-7-69, Cl. 260-623.
Oderman, Samuel: *See*—
Thull, John F.; and Oderman, Samuel,3,476,384.
Odermann, Charles R.; and Dix, Willard A., to Singer Company, The. Combined scrubbing and shampooing means. 3,477,082, 11-11-69, Cl. 15-98.
Odermatt, Karl: *See*—
Hero, Franz; Odermatt, Karl; and Muller, Walter,3,487,446.
Odian, Allen C.; Bulos, Fatin; Villa, Francesco; and Yount, David E., to United States of America, Atomic Energy Commission. Pulse-shaping transmission-line transformer for a double-gap streamer chamber. 3,445,661, 5-20-69, Cl. 250-83.3
Odinak, Alec; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., to Upjohn Company, The. Polyurethane polyol mixture containing hydroxyalkylated polyamines. 3,423,344, 1-21-69, Cl. 260-2.5
Odinak, Alec; and Thompson, Edward J., to Upjohn Company, The. Preparation of poly (hydroxypropyl) polyphosphates. 3,450,803, 6-17-69, Cl. 260-978.
Odinak, Alec: *See*—
Farrissey, William J., Jr.; and Odinak, Alec,3,449,256.
Oding, Carl A. Sea water desalination apparatus. 3,475,280, 10-28-69, Cl. 202-233.
Odiorne, John W., to Polaroid Corporation. Roller structure and method of manufacture. 3,447,221, 6-3-69, Cl. 29-121.
Odland, Karsten, to Nalco Chemical Company. Regeneration of weak base anion exchange resins. 3,429,835, 2-25-69, Cl. 260-2.1
Odland, Karsten: *See*—
Schmidt, Kenneth A.; and Odland, Karsten,3,438,891.
Odle, Herbert A.: *See*—
Wince, Vearl S.; and Odle, Herbert A.,3,448,260.
Odney, Keith D., to Raven Industries, Inc. Tree snagging parachute. 3,420,479, 1-7-69, Cl. 244-152.
Odom, George H. Level winding mechanism for fishing reels. 3,464,646, 9-2-69, Cl. 242-84.41
Odom, James J.; Shumaker, Thomas P.; and Bloomquist, Paul R., to Reichhold Chemicals, Inc. Process for removal of inorganic and organic matter from waste water systems. 3,484,837, 12-16-69, Cl. 210-52.
O'Donald, Richard A.:*See*—
Kramer, Theodore W., III; and O'Donald, Richard A.,3,458,023.
Odone, Giovanni, to Paillard S.A. Electronic photometer with photoelectric element controlled diode circuits. 3,476,944, 11-4-69, Cl. 250-214.
O'Donnell, Alvin J., to Pfizer, Chas., & Co., Inc. Tetracycline recovery process. 3,458,572, 7-29-69, Cl. 260-559.
O'Donnell, Charles L.,50% to Steinhauser, Carroll. Shuttle check for loom. 3,429,345, 2-25-69, Cl. 139-185.
O'Donnell, Frank, (also known as 'Donnell, Francis); and Scocca, George, Jr. Battery set and camera combination. 3,486,945, 12-30-69, Cl. 136-173.
O'Donnell, Frank, (also known as O'Donnell, Francis); and Scocca, George, Jr. Battery with reserve cell. 3,486,944, 12-30-69, Cl. 136-110.
O'Donnell, James D.,to said O'Donnell, James D., d/b/a Kleenie Master Company, mesne. Container construction. 3,484,017, 12-16-69, Cl. 220-65.
O'Donnell, James E. Boring tool head. 3,480,287, 11-25-69, Cl. 279-6.
O'Donnell, James E.:*See*—
O'Halloran, Timothy J.; and O'Donnell, James E.,3,426,152.
O'Donnell, James W. Overhead rail systems. 3,426,699, 2-11-69, Cl. 104-93.
O'Donnell, Joseph P.; Butler, Roger M.; and Simpson, Leander Burton, to Esso Research and Engineering Company. Ammoxidation of aromatic hydrocarbons to aromatic nitriles using substantial quantities of water in the reaction mixture. 3,462,476, 8-19-69, Cl. 260-465.
O'Donnell, Miles C.:*See*—
Roman, Robert J.; O'Donnell, Miles C.; and Johnson, Robert B.,3,484,159.
O'Donnell, Richard V., to United States of America, Army. Jamming transceiver with automatic frequency tracking of jammed signal. 3,431,496, 3-4-69, Cl. 325-132.
O'Donnell, Thomas P. Clamp overall adaptably combined with a writing platform. 3,423,798, 1-28-69, Cl. 24-66.
O'Donnell, William R., to Valve Corporation of America. Venting valve construction for refillable pressurized dispensers. 3,473,704, 10-21-69, Cl. 222-402.16
O'Donnell, William R.; and Banyacsky, Arthur J. Valve Corporation of America Actuator cap for dispensers having rotate-to-lock captive button. 3,460,719, 8-12-69, Cl. 222-320.

O'Donnell, William R.; and Banyacsky, Arthur J., to Valve Corporation of America. Rotate-to-lock actuator cap for dispensers. 3,474,939, 10i28-69, Cl. 222-320.
O'Donoghue, John Peter:*See*—
Davies, Anthony Roger; and O'Donoghue, John Peter,3,466,103.
Odson, Clifford S., to Therm-O-Disc, Incorporated. Thermostat. 3,442,129, 5-6-69, Cl. 73-363.
Oefner, Reiner, to VEB Geratewerk Karl-Marx-Stadt. Snap switch with imbricated spring. 3,422,382, 1-14-69, Cl. 335-185.
Oehler, Alvin William; and Rohweder, Glen Willard, to Deere & Company. Tiltable platform for harvester. 3,474,606, 10-28-69, Cl. 56-208.
Oehlerking, Dean, to Ideal Industries, Inc. Housing and marker point holder for a marking machine. 3,440,861, 4-29-69, Cl. 72-430.
Oehmann, Manfred, to Gesellschaft fur Kernforschung m.b.H. Method and device for the supervision of installations, in particular safety switching system of nuclear reactors. 3,424,652, 1-28-69, Cl. 176-19.
Oehme, Christian; and Brost, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Regeneration of weakly acidic cation exchangers charged with detergents. 3,420,774, 1-7-69, Cl. 210-30.
Oehme, Frank. Pressure release valve for a container. 3,435,301, 3-25-69, Cl. 317-230.
Oehmig, Heinz, to Drager, Otto H. Tracheal tube. 3,443,564, 5-13-69, Cl. 128-351.
Oehmsen, Erich. Plastic covered building structure. 3,483,879, 12-16-69, Cl. 135-1.
Oeland, Ernest N., Jr. Baseball training guide. 3,462,856, 8-26-69, Cl. 35-74.
Oeland, Ernest N., Jr.: *See*—
Nelson, Harry A.; Oeland, Ernest N., Jr.; Miller, Howard A.; and Blatt, Milton D.,3,477,376.
Oeler, Richard C.; and Salners, Edward A., to Motorola, Inc. Assembly having a chassis and removably mounted panels. 3,486,077, 12-23-69, Cl. 317-101.
Oelke, Waldemar W.; Carson, Frank J.; Badger, Alfred E.; and O'Connell, Thomas B., to Libbey-Owens-Ford Company. Glass sheet press bending mold. 3,477,840, 11-11-69, Cl. 65-287.
Oellerich, Werner B.; and Hurick, Richard A. Apparatus for locating center of work spindle. 3,432,932, 3-18-69, Cl. 33-172.
Oellig, Oskar, to Diehl. Speed control for time keeping devices. 3,456,527, 7-22-69, Cl. 74-573.
Oelrich, John A., to Chandler Evans, Inc. Time modulated pneumatically actuated control mechanism. 3,430,536, 3-4-69, Cl. 91-47.
Oerkikon-Buhrle Holding Ltd.: *See*—
Spuhler, Hans Peter, 3,475,995.
Oerlikon Buhrle Holding Ltd.: *See*—
Anderes, Max, 3,435,932.
Oerlikon Engineering Company: *See*—
Spiess, Hans, 3,435,261.
Storsand, Bjarne, 3,430,017.
Oerlikon-Buhrle Holding Ltd.: *See*—
Anderes, Max, 3,460,414.
Engel, Walter, 3,435,768.
Engel, Walter; and Burri, Heinrich, 3,446,147.
Engel, Walter, 3,447,466.
Gabler, Rudolf, 3,435,726.
Hess, Willy, 3,474,233.
Mahler, Leo, 3,473,426.
Meier, Werner, 3,461,753.
Rabian, Laszlo; and Grendelmeier, Georg, 3,465,220.
Rabian, Laszlo; and Grendelmeier, Georg, 3,469,101.
Schenk, Hanspeter; and Apotheloz, Robert, 3,426,683.
Spuhler, Hanspeter; and Kolb, Wolfgang, 3,473,395.
Oertel, Fritz: *See*—
Seulen, erhard; Reinke, Friedhelm; Frisch, Karl W.; and Oertel, Fritz,3,483,346.
Oertel, Gunter: *See*—
Blomeyer, Friedrich; and Oertel, Gunter,3,479,325.
Oertel, Gunter; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Urethane containing isocyanates. 3,461,151, 8-12-69, Cl. 260-471.
Oertel, Gunter; Holtschmidt, Hans; Wagner, Kuno; and Zenner, Karl-Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. Polymers containing N-alkoxymethyl groups. 3,480,591, 11-25-69, Cl. 260-75.
Zenner, Karl-Friedrich; Oertel, Gunter; and Holtschmidt, Hans,3,453,310.
Oertel, Harald; Rinke, Heinrich; Moosmuller, Fritz; and Rosendahl, Friedrich-Karl, to Farbenfabriken Bayer Aktiengesellschaft. Fibers from elastomeric polyurethanes containing tertiary amino groups. 3,461,102, 8-12-69, Cl. 260-75.
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich Karl, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethanes having improved dyeability, light fastness and fastness to waste gases and method of preparing the same. 3,454,671, 7-8-69, Cl. 260-859.
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich-Karl, to Farbenfabriken Bayer Aktiengesellschaft. Spandex fibers having segments containing at least two tertiary nitrogen atoms. 3,461,101, 8-12-69, Cl. 260-75.
Oertel, Harald; Rinke, Heinrich; Rosendahl, Friedrich Karl; and Kleiner, Helmut, to Farbenfabriken Bayer Aktiengesellschaft. Stabilization of polyurethane synthetic resins. 3,485,778, 12-23-69, Cl. 260-18.
Oertel, Harald; Rinke, Heinrich; and Thoma, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethanes prepared from dihydrazides. 3,432,456, 3-11-69, Cl. 260-30.2
Oertel, Harald; Rinke, Heinrich; Thoma, Wilhelm; and Rosendahl, Friedrich-Karl, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane fibers. 3,461,106, 8-12-69, Cl. 260-75.
Oertel, Harald: *See*—
Rosendahl, Friedrich Karl; Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich,3,475,377.
Oertel, Richard J., to Airline Welding and Engineering. Welding machine carriage and track assembly. 3,473,001, 10-14-69, Cl. 219-125.
Oertle, Donald H.: *See*—
Atwood, Mark T.; Napier, Donald R.; and Oertle, Donald H.,3,457,030.
Oess, Frederick G., to Hughes Aircraft Company. Electrode gun having electrode cup in ceramic cavity. 3,453,473, 7-1-69, Cl. 313-82.
Oesterheld, Karl Adolf. Apparatus for dressing crude asbestos separated from the source rock. 3,428,265, 2-18-69, Cl. 241-259.
Oesterhelt, Gerhard; de Bucs, Eugen Szabo; Kunert, Alfred; and Rupprecht, Joachim, to Siemens Aktiengesellschaft. Thermoelectric device comprising silicon alloy thermocouple legs bonded by a solder composed of palladium alloy. 3,470,033, 9-30-69, Cl. 136-237.
Oesterhelt, Gerhard: *See*—
de Bucs, Eugen Szabo; Oesterhelt, Gerhard; and Pietsch, Doris,3,441,812.
Oesterle, Adolph G., to General Precision Systems Inc. Voltage deviation alarm system. 3,427,607, 2-11-69, Cl. 340-248.
Oesterling, Erwin; and Torbeck, Johann, to Hauni-Werke Korber & Co., KG. Machine for uniting tobacco rods with mouthpieces. 3,473,536, 10-21-69, Cl. 131-21.
Oesterling, Robert E.: *See*—
Gardner, David M.; Oesterling, Robert E.; and Tyczkowski, Edward A.,3,441,619.
Oestrike, Wilfred C.: *See*—
Dixon, John K.; Addie, Albert N.; McDowall, Charles J., and; and Oestrike, Wilfred C.,3,455,107.
Oeters, Harold R.; and Maholick, Andrew W., to International Business Machines Corporation. Delay line data transfer apparatus. 3,478,325, 11-11-69, Cl. 340-172.5
Oetiker, Alfred; and Mory, Rudolf, to Ciba Limited. Dyestuff bleaching catalysts for the silver dyestuff bleaching process. 3,443,949, 5-13-69, Cl. 96-73.
Oetiker, Alfred: *See*—
Montmollin, Ren'e De; Loeffel, Hansrolf; Oetiker, Alfred; and Buchler, Arthur,3,444,156.
Mory, Rudolf; and Oetiker, Alfred,3,443,947.
Piller, Bernhard; and Oetiker, Alfred,3,429,705.
Schaefer, Paul; and Oetiker, Alfred,3,455,690.
Oetiker, Hans, to Gebruder Buhler AG. Pneumatic separator and bulk solids feeder. 3,441,134, 4-29-69, Cl. 209-139.
Oetiker, Hans. Spring tensioned band clamping device. 3,475,793, 11-4-69, Cl. 24-20.
Oetke, Walter: *See*—
Walaschewski, Engelbert; Steinbach, Hans-Horst; Oetke, Walter; and Erdmenger, Rudolf,3,423,842.
O'Fallon, Richard G.:*See*—
Angelucci, George V.; Kurtz, Richard J.; and O'Fallon, Richard G.,3,434,770.
Ofelt, Chester W.; and Nachod, Frederick C., to Sterling Drug Inc. Preparation of flour-containing leavened products. 3,482,994, 12-9-69, Cl. 99-91.
Ofenbau, Maerz, A.G.: *See*—
Berger, Norbert, 3,439,912.
Off, Joseph W. A.; Adams, Kenneth D.; and Raudonis, John A., Jr., to Singer Company, The. Machine for automatically loading and unloading fabric creasers. 3,420,515, 1-7-69, Cl. 270-45.
Offenbroich, Adrian Gottfried. Expanding devices. 3,437,362, 4-8-69, Cl. 287-124.
Offenhauer, Robert D.; and Scheiner, Peter, to Mobil Oil Corporation. Method of making an expanded cellular body of polymer. 3,431,189, 3-4-69, Cl. 204-159.18
Offer, Robert J.; and McLaren, James C., to Walker Manufacturing Company. Filter with ratchet retaining ring. 3,485,380, 12-23-69, Cl. 210-444.
Offereins, Rienk Pieter, to N.V. Hollandse Signaalapparaten. Arrangement for digitalizing positions. 3,426,340, 2-4-69, Cl. 340-198.

Offereins, Rienk Pieter, to N.V. Hollandse Signaalapparaten. Arrangement for digitally establishing the position of a movable object. 3,440,410, 4-22-69, Cl. 235-92.
Offergeld, Arthur. Installation for purification of gas. 3,443,363, 5-13-69, Cl. 55-232.
Offermann, Peter Rudolf; Pilz, Siegfried Walter; and Sonntag, Peter Erich, to VEB Nahwerkmaschinenbau Malimo Karl-Marx-Stadt. Control device for the laying rail of a warp knitting machine. 3,456,461, 7-22-69, Cl. 66-86.
Offermanns, Hubert; and Skaliks, Willi, to Schering A.G. Electrodeposition of silver antimony alloys. 3,425,917, 2-4-69, Cl. 204-43.
Office National d'Etudes et de Recherches Aerospatiales:*See*—
Berton, Pierre, 3,443,475.
Contensou, Pierre L.; Delattre, Michel M.; and Gay, Michel J., 3,438,267.
Galmiche, Philippe Marie; and Hivert, Andre, 3,449,115.
Gay, Michel J. L.; and Penaud, Marcel, 3,426,202.
Girard, Andre J.; and Berny, Jean G., 3,454,338.
Girard, Andre Jean, 3,432,238.
Girard, Andre Jean, 3,432,241.
Luft, Karl, 3,476,934.
Philbert, Michel Eric Charles, 3,431,352.
Pichoir, Francoise Marie Antoinette, 3,456,108.
Zakheim, Jacques; Dumont, Georges L.; and Dunand, Francois M., 3,453,625.
Office National Industriel de L'Azote:*See*—
Cousserans, Gilbert; and Amanrich, Robert, 3,438,746.
Garlet, Robert; and Grandet, Louis, 3,432,266.
Roche, Andre, 3,467,506.
Officine Meccaniche Cigardi S.p.A.-O.M.C.S.A: *See*—
Tagliasacchi, Ercole, 3,452,261.
Offner, Manfred; and Yucelen, Yuksel, to Siemens Aktiengesellschaft. Integrated complementary transistor circuit. 3,453,505, 7-1-69, Cl. 317-235.
Offner, Maximilian. Tennis ball pick-up and collecting machine. 3,485,398, 12-23-69, Cl. 214-356.
Offutt, Elmer Bradley; and Bieri, Leonard, Jr., to Vendo Company, The. Electro-mechanical control apparatus for a vending machine. 3,472,424, 10-14-69, Cl. 221-129.
Offutt, William C.: *See*—
McKinney, Joel D.; and Offutt, William C.,3,423,307.
O'Flahavan, James M.:*See*—
Marzocchi, Alfred; and O'Flahavan, James M.,3,462,523.
O'Flahavan, Lorraine C.:*See*—
Marzocchi, Alfred; and O'Flahavan, James M.,3,462,523.
Ofstead, Ronald F.; and Gobran, Ramsis, to Minnesota Mining and Manufacturing Company. Silver halide polyvinyl alcohol emulsions containing hardening agent. 3,453,113, 7-1-69, Cl. 96-111.
Ofstead, Ronald F.: *See*—
Gobran, Ramsis; and Ofstead, Ronald F.,3,436,222.
Oftedahl, Marvin L.: *See*—
Schleppnik, Alfred A.; and Oftedahl, Marvin L.,3,455,960.
Schleppnik, Alfred A.; and Oftedahl, Marvin L.,3,468,914.
Schleppnik, Alfred A.; and Oftedahl, Marvin L.,3,476,778.
Ogallala Electronics Mfg., Inc.: *See*—
Ragsdale, George, 3,437,965.
Oganesov, Vladimir Nikitovich: *See*—
Tkachev, Vladimir Vasilievich; Oganesov, Vladimir Nikitovich; and Slanevsky, Anatoly Vasilievich,3,467,321.
Oganowski, Kasimir; and Pierson, Marvin B., to Armco Steel Corporation. Method of processing ferrous strip. 3,429,164, 2-25-69, Cl. 72-161.
O'Gara, George W., to Eastman Kodak Company. Locking arrangement for photographic apparatus. 3,459,064, 8-5-69, Cl. 74-527.
Ogasawara, Roy T.: *See*—
Adlhoch, Richard H.; Chapman, Ronald H.; and Ogasawara, Roy T.,3,458,664.
Ogasawara, Takahisa; Tatemichi, Hidemaro; Ito, Hiroo; and Suzuki, Shigenari, to Toa Gosei Chemical Industry Co., Ltd. Process for preparing an optically inactive amino acid from an optically active amino acid. 3,458,568, 7-29-69, Cl. 260-534.
Ogata, Fumimaro: *See*—
Ando, Satoshi; Tanaka, Yusaku; and Ogata, Fumimaro,3,458,390.
Ogata, Kazuo; Kazama, Kiyoshi; Suzuki, Shozo; and Morimatsu, Yasuo, to Teijin Limited. Novel process for the preparation of polyester. 3,442,868, 5-6-69, Cl. 260-75.
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; Akiyama, Mitsuo; and Kikuchi, Ukichi, to Hitachi Ltd., and Keihin Hitachi Engineering Co., Ltd. Air conditioner. 3,420,592, 1-7-69, Cl. 312-204.
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; and Odagaki, Fukuichi, to Hitachi, Ltd. Air conditioner. 3,460,353, 8-12-69, Cl. 62-176.
Ogata, Loichi: *See*—
Shoji, Osamu; Yokogawa, Kanae; Sunahara, Noriyuki; and Ogata, Loichi,3,438,860.
Ogawa, Hatsutaro, to Nelco Corporation. Stitch pattern indicator for a sewing machine. 3,481,305, 12-2-69, Cl. 116-124.
Ogawa, Hiroshi: *See*—
Hasegawa, Masaru; Hirota, Sadao; and Ogawa, Hiroshi,3,421,282.
Ueda, Kenji; and Ogawa, Hiroshi,3,477,931.
Ogawa, Hiroyuki: *See*—
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; Akiyama, Mitsuo; and Kikuchi, Ukichi,3,420,592.
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; and Odagaki, Fukuichi,3,460,353.
Ogawa, Jun: *See*—
Minami, Shinichi; and Ogawa, Jun,3,454,473.
Ogawa, Katsumasa: *See*—
Takada, Yuji; and Ogawa, Katsumasa,3,482,048.
Ogawa, Kazuo: *See*—
Yamamura, Masami; and Ogawa, Kazuo,3,472,601.
Ogawa, Mitsuo: *See*—
Matsumura, Yoichi; Ogawa, Mitsuo; and Toda, Mitsuhiro,3,434,712.
Ogawa, Shigeaki: *See*—
Matsushima, Mitsuo; and Ogawa, Shigeaki,3,457,527.
Ogawa, Shigeyoshi: *See*—
Kato, Kaoru; and Ogawa, Shigeyoshi,3,431,067.
Kato, Kaoru; and Ogawa, Shigeyoshi,3,455,840.
Ogawa, Shinichiro, to Honeywell Inc. Transistorized safety switch. 3,446,988, 5-27-69, Cl. 307-202.
Ogawa, Shuntaro: *See*—
Takemoto, Tsunematsu; Ogawa, Shuntaro; and Nishimoto, Nobushige,3,433,814.
Ogawa, Susumu, to Fuji Metal Manufacturing Co., Ltd. Apparatus for installing a valve seat in valve. 3,435,842, 4-1-69, Cl. 137-454.6
Ogawa, Tadayuki: *See*—
Suzuki, Hiroshi; and Ogawa, Tadayuki,3,446,429.
Ogawa, Takero. Lasting device for the shank of shoes. 3,435,473, 4-1-69, Cl. 12-8.5
Ogawa, Takeshi; and Suzusho, Hiroshi, to Kanegafuchi Boseki Kabushiki Kaisha. Composition and method for treating textile products of polyamides. 3,484,186, 12-16-69, Cl. 8-130.1
Ogawa, Yasuhiro: *See*—
Nakahara, Masataka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro,3,477,998.
Nakahara, Mastaka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro,3,436,406.
Ogburn, Robert D.: *See*—
Fussell, Lynn E.; and Ogburn, Robert D.,3,459,921.
Staats, James E.; and Ogburn, Robert D.,3,445,784.
Ogden, Charles T.: *See*—
Lo Presti, Roy F.; and Ogden, Charles T.,3,451,090.
Ogden Engineering Corporation: *See*—
Lawson, William P., 3,421,666.
Lawson, William P., 3,446,159.
Ogden, Ralph P.; and Lawson, William P., 3,444,352.
Ogden, Ralph P.; and Lawson, William P., 3,469,067.
Ogden, Ralph P., 3,480,757.
Ogden, Harry F., Jr.: *See*—
Langsetmo, Peder K.; Ogden, Harry F., Jr.; and Emery, Lewis A.,3,425,135.
Clark, Wilfred Neville; Conner, Charles Irvine; and Ogden, Harry,3,471,703.
Wilkinson, Bernard H.; and Ogden, Harry,3,463,720.
Ogden, Horace R.: *See*—
Bradley, Elihu F.; Bartlett, Edwin S.; Ogden, Horace R.; and Jaffee, Robert I.,3,442,720.
Ogden Iron Works Company: *See*—
Carver, Norman E.; and Silver, Joseph M., 3,440,674.
Silver, Joseph M., 3,451,084.
Ogden, Paul H., to Minnesota Mining and Manufacturing Company. Perfluoro(alkyl substituted imidazolines) and process for making. 3,427,320, 2-11-69, Cl. 260-309.6
Ogden, Peter James, to Vickers Limited. Sheet-fed printing presses. 3,431,844, 3-11-69, Cl. 101-234.
Ogden, Ralph P., to Ogden Engineering Corporation. Motor generator type welding apparatus. 3,480,757, 11-25-69, Cl. 219-134.
Ogden, Ralph P.; and Lawson, William P., to Ogden Engineering Corporation. Adjustable welding head arrangement. 3,444,352, 5-13-69, Cl. 219-125.
Ogden, Ralph P.; and Lawson, William P., to Ogden Engineering Corporation. Apparatus for welding together beam components. 3,469,067, 9-23-69, Cl. 219-124.
Ogden, Stewart: *See*—
Heilweil, Melvin F.; Maley, Gerald A.; Muhlenbruch, Gilbert R.; and Ogden, Stewart,3,459,926.
Oger, Rene, to Societe de Fabrication d'Instruments de Mesure (S.F.I.M.). Elastic mounted gyroscope motor. 3,446,081, 5-27-69, Cl. 74-5.7
Ogg, James H., to Pakline Corp. Garment hanger. 3,421,669, 1-14-69, Cl. 223-91.
Ogg, Robert D., to Eastern Company, The. Compass. 3,481,044, 12-21-69, Cl. 33-223.
Ogg, Robert D., to Eastern Company, The. Gas detector system. 3,482,233, 12-2-69, Cl. 340-237.

O'Gieblyn, Ernest J.:*See*—
Burden, Roy B., Jr.; and O'Gieblyn, Ernest J.,3,453,976.
Ogier, George; and Shumate, Donald J., to Mallinckrodt Chemical Works. Generation and containerization of radioisotopes. 3,446,965, 5-27-69, Cl. 250-106.
Ogihara, Mamoru, to Kabushiki Kaisha Yashica Shibuya-ku. Automatic exposure control camera. 3,460,450, 8-12-69, Cl. 95-10.
Ogilvie, Alan Graham: *See*—
Beattie, John Reginald; and Ogilvie, Alan Graham,3,427,109.
Ogilvie Flour Mills Company, Limited, The: *See*—
Billy, Jean-Marc; and Seguin, Judith Ann, 3,448,101.
Ogilvie, Frank R. Corrugating method and apparatus. 3,461,711, 8-19-69, Cl. 72-383.
Ogilvie, Frank. Corrugating machine. 3,479,855, 11-25-69, Cl. 72-383.
Ogilvie, Kendal M.: *See*—
Beals, George C.; Ogilvie, Kendal M.; and Mulholland, Lyle E.,3,436,068.
Ogita, Teisuke: *See*—
Kudo, Tetsuo; Nakamura, Kazuo; Ogita, Teisuke; and Sudo, Yozo,3,439,301.
Ogle, David G.: *See*—
Gordon, Manuel J.; and Ogle, David G.,3,474,024.
Ogle, Frank T.: *See*—
McCoy, Raymond D.; and Ogle, Frank T.,3,475,392.
Ogle, James A.: *See*—
Stern, David M.; Mann, Abe; and Ogle, James A.,3,467,775.
Ogle, James; and Askowith, Burton, to Burroughs Corporation. Apparatus for generating signals indicative of the persistence characteristics of substances made radiant by energizing radiation. 3,483,388, 12-9-69, Cl. 250-219.
Ogle, Joseph Eric; and Martin, Dennis, to Davy and United Engineering Company Limited. Rolling mills. 3,438,236, 4-15-69, Cl. 72-250.
Ogle, Joseph Eric; and Rickett, Philip Haydn, to Davy and United Engineering Company, Limited. Rolling mill. 3,425,255, 2-4-69, Cl. 72-238.
Ogle, Paul E.: *See*—
Brown, Neuberne H., Jr.; Butler, David P.; Carter, Jack M.; Ferik, Michael; and Ogle, Paul E.,3,427,997.
Ogle, Robert W., to V.O.M. Corporation. Dual medicinal vial. 3,467,097, 9-16-69, Cl. 128-272.
Ogle, Robert W., to Silitron Corporation. Apparatus for forming glass articles. 3,472,643, 10-14-69, Cl. 65-292.
Oglebay Norton Company: *See*—
Charman, Walter M., Jr.; and Beattie, Walter R., 3,430,682.
Charman, Walter M., Jr.; and Borden, James H., 3,433,452.
Charman, Walter M., Jr.; and Jackson, John Eugene, 3,436,883.
Charman, Walter M., Jr., 3,467,168.
Charman, Walter M., Jr.; and Middaugh, George J., Jr., 3,478,999.
Oglesby, Minor W., Jr.; and Keeler, Robert M., to Phillips Petroleum Company. Fractionation distillation control process and apparatus with side stream, reflux and bottoms flow control. 3,428,528, 2-18-69, Cl. 203-1.
Oglesby, Minor W., to Phillips Petroleum Company. Control of reflux to a fractionator. 3,423,291, 1-21-69, Cl. 202-160.
Ogletree, Willie E. Guitar. 3,438,297, 4-15-69, Cl. 84-267.
Oglevee Floral Company, Inc.: *See*—
Oglevee, James Robert, 3,469,933.
Oglevee, James Robert, to Oglevee Floral Company, Inc. Thermoduster alcohol burning fungicide sublimer. 3,469,933, 9-30-69, Cl. 21-117.
O'Gorman, Thomas M.:*See*—
Curtis, Larry L.; O'Gorman, Thomas M.; and Cox, Bing A.,3,438,349.
Ogorzalek, Jerzy Marian: *See*—
Jezewski, Mieczyslaw Stanislaw; Kawecki, Zygmunt Tadeusz; Szklarski,Ludger Miroslaw; Krawczyk, Eugeniusz Marian; and Ogorzalek, Jerzy Marian,3,424,976.
O'Grady, Joseph V., to Syncro Machine Company. Machine for the drawing of superfine wire. 3,462,993, 8-26-69, Cl. 72-289.
O'Grady, Mary Patricia:*See*—
Cawley, John D.; and O'Grady, Mary Patricia,3,423,440.
O'Grady, Thomas M.; Alm, Robert M.; and Hoff, Melvern C., to Standard Oil Company (Indiana). Catalytic isomerization of unsaturated acetals and hydrocarbons. 3,437,698, 4-8-69, Cl. 260-615.
Ogren, Harvey D., to Honeywell Inc. Fluid sensor. 3,435,688, 4-1-69, Cl. 74-5.6
Ogren, John R.: *See*—
Lubowitz, Hyman R.; Ogren, John R.; and Kendrick, William P.,3,423,317.
Ogren, John R., to TRW Inc. Constant conductivity alloys. 3,463,636, 8-26-69, Cl. 75-165.
Ogrinc, Herman F., to General Electric Company. Calcium halophosphate phosphor treatment process. 3,485,767, 12-23-69, Cl. 252-301.4
Oguchi, Hakuro; and Iwasaki, Kenjiro, to Hitachi, Ltd. Optical shutter. 3,473,458, 10-21-69, Cl. 95-55.
Oguchi, Heikichi: *See*—
Yoshida, Muneo; Inoue, Masaru; Fukunaga, Tsuyoshi; Oguchi, Heikichi; and Shioya, Koichi,3,437,997.
Ogura, Iwao, to Kabushiki Kaisha Hitachi Seisakusho. Apparatus for measuring the Raman effect of samples of infinitesimal quantities. 3,442,591, 5-6-69, Cl. 356-75.
Ogura, Junji; Mise, Noritoshi; Yokoo, Makoto; and Hatanaka, Yoshihiro, to Takeda Chemical Industries, Ltd. Liquid carboxylic acid salts of diamines as curing agents. 3,478,089, 11-11-69, Cl. 260-501.2
Ogura, Toshinobu: *See*—
Namba, Yasuhiro; Kessoku, Kazuo; Fujii, Tadayoshi; Ogura, Toshinobu; and Yoshiyama, Ichiro,3,476,028.
Oguri, Fujio; and Tsutsumi, Teruo, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Furnace top charging equipment. 3,482,714, 12-9-69, Cl. 214-37.
Oguri, Katsuhiko, to Aisin Seiki Kabushiki Kaisha. Clutch release motor with automatic compensator for disc wear. 3,430,744, 3-4-69, Cl. 192-111.
Oguri, Koji: *See*—
Okuda, Noriyuki; Kuniyoshi, Ieji; Saito, Tadashi; and Oguri, Koji,3,480,645.
Oguri, Shiro. Tire having sub-tires integral with its sidewalls. 3,467,160, 9-16-69, Cl. 152-352.
Oguro, Yoshigoro: *See*—
Naito, Ryoichi; Oguro, Yoshigoro; and Murata, Yorihiko,3,434,928.
Ogushi, Hisashi H.: *See*—
Richmond, Richard C.; and Ogushi, Hisashi H.,3,469,239.
O'Hair, Roy J. Decorative shutters and methods of assembly. 3,451,165, 6-24-69, Cl. 49-87.
O'Halloran, Rosemary, to Esso Research and Engineering Company. Sulfur and chlorine containing ashless dispersant, and lubricating oil containing same. 3,470,098, 9-30-69, Cl. 252-47.5
O'Halloran, Timothy J.; and O'Donnell, James E. Telephone answering device. 3,426,152, 2-4-69, Cl. 179-6.
Ohama, Hiroshi: *See*—
Ishida, Shinichi; and Ohama, Hiroshi,3,420,797.
Ishida, Shinichi; Ohama, Hiroshi; and Matsumoto, Koichi,3,422,070.
Kobayashi, Hidehiko; Ohama, Hiroshi; and Saito, Shizuko,3,433,773.
Kobayshi, Hidehiko; Ohama, Hiroshi; and Izawa, Shin-Ichi,3,455,880.
O'Hanlan, Michael Anthony, Jr.:*See*—
Garver, William Joseph; and O'Hanlan, Michael Anthony, Jr.,3,462,725.
O'Hara, Kim L.:*See*—
Alberts, James R.; and O'Hara, Kim L.,3,421,739.
O'Hara, Mark J.:*See*—
Gleim, William K. T.; and O'Hara, Mark J.,3,429,801.
O'Hara, Mark J., to Universal Oil Products Company. Petroleum crude oil hydrorefining catalyst. 3,453,219, 7-1-69, Cl. 252-432.
O'Hara, Mark J., to Universal Oil Products Company. Hydrodesulfurization catalyst and process for treating residual fuel oils. 3,471,399, 10-7-69, Cl. 208-216.
O'Hara, Mark J.; and Gleim, William K. T., to Universal Oil Products Company. Hydrorefining asphaltenic petroleum charge stocks. 3,420,771, 1-7-69, Cl. 208-216.
O'Hara, Mtsuaki:*See*—
Okawara, Rokuro; and O'Hara, Mtsuaki,3,439,010.
Ohara, Osamu: *See*—
Imoto, Saburo; and Ohara, Osamu,3,457,211.
Ohara, Seiji: *See*—
Koyama, Jiro; Sumi, Masao; and Ohara, Seiji,3,464,020.
Ohara, Takashi: *See*—
Kurata, Naoji; Matsumoto, Takehiko; Ohara, Takashi; and Oda, Kenzo,3,487,109.
Kurata, Naoji; Ohara, Takashi; and Oda, Kenzo,3,475,488.
O'Hara, Thomas M. Planetary transmission. 3,448,637, 6-10-69, Cl. 74-752.
O'Hare, Joseph E. Sea-going craft. 3,476,071, 11-4-69, Cl. 115-20.
O'Hare, Thomas F.:*See*—
Florek, Edward J.; De Paolo, Salvatore J.; O'Hare, Thomas F.; Haefeli, John E.; and Berenberg, Oscar,3,482,231.
Ohashi, Hitoshi: *See*—
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto,3,455,847.
Ohashi, Shin-ichi; and Takagi, Toshijiro, to Hitachi, Ltd. Spike noise elimination circuit for a D.C.-A.C. converter. 3,469,173, 9-23-69, Cl. 321-44.
Ohashi, Shin-Ichi; Takagi, Toshijiro; and Abe, Zenmon, to Hitachi, Ltd. Semiconductor device for chopper circuits having lead wires of copper metal and alloys thereof. 3,474,307, 10-21-69, Cl. 317-235.
Ohashi, Tamotsu; Masuda, Kotaro; Imai, Masatake; and Morishima, Takeshi, to Morinaga Confectionery Co., Ltd. Process for manufacture of readily dispersible cocoa powder. 3,459,557, 8-5-69, Cl. 99-26.

327-709 O-LT - 71 - pt. 1 - 74

Ohaver, David S.: *See—*
Callegari, William A.; Matthews, Ralph W.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,465,851.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,444,762.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,444,968.
Horsch, Joachim; and Ohaver, David S.,3,468,194.
Ohba, Hiroo: *See—*
Kawase, Shigeru; Kitazawa, Tohru; Ohba, Hiroo; and Sagi, Kojiro,3,484,273.
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo, to Buludoza Koji Kabushiki Kaisha, a/k/a Bulldozer Koji Co., Ltd. Ocean-going push-barge and bargeline. 3,446,173, 5-27-69, Cl. 114-235.
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo, to Kabushiki Kaisha Aoki Kensetsu, a/k/a Aoki Construction Co., Ltd. Ocean-going push-barge and bargeline. 3,483,842, 12-16-69, Cl. 114-235.
Ohe, Tsutomu: *See—*
Sagara, Hideo; Iwasaki, Yasuhiro; Ohe, Tsutomu; and Mashimo, Tomoyuki,3,431,630.
Ohfuji, Naoji: *See—*
Koshizuka, Michio; Ohfuji, Naoji; and Sata, Shinetsu,3,437,861.
Ohfuka, Toshio; Shirode, Katsumi; and Ichikawa, Yasushi, to Asahi Kasei Kogyo Kabushiki Kaisha. Proces for the preparation of polymer. 3,432,482, 3-11-69, Cl. 260-85.5
Ohgoshi, Akio; Shimada, Satoshi; and Miyaoka, Senri, to Sony Corporation. Color picture tube. 3,467,881, 9-16-69, Cl. 315-13.
Ohgoshi, Akio: *See—*
Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu,3,448,316.
Ohi, Reiichi; Ikeda, Teppei; and Hibino, Choji, to Fuji Shashin Film Kabushiki Kaisha. Photographic light-sensitive films. 3,433,638, 3-18-69, Cl. 96-84.
Ohio Athletic Specialty Company, The: *See—*
Grant, Munro M., 3,435,460.
Ohio Brass Company, The: *See—*
Harmon, Robert W., 3,471,628.
Harmon, Robert W., 3,483,314.
Hazen, Ramon B., 3,443,149.
Kovacs, Lajos J., 3,469,407.
Tanaka, Shigefumi; Ishikawa, Jiro; Matumoto, Tosiaki; and Kovacs, Lajos J., 3,469,403.
Taylor, John J., 3,429,234.
Ohio Crankshaft Company, The: *See—*
Kauffman, Harry D., 3,432,739.
Lewis, John Charles, 3,423,557.
Osborn, Harry B., Jr., 3,433,683.
Weit, James G., 3,434,010.
Ohio Ferro-Alloys Corporation: *See—*
Montgomery, Vernon H.; and McClure, Roger N., 3,433,283.
Ohio Knife Company, The: *See—*
Hall, Steve, 3,429,305.
Ohio State University Research Foundation, The: *See—*
Copeland, John R.; and Kitzerow, Richard A., 3,480,961.
McMaster, Robert C.; Mitchell, Jay P.; and Rhoten, Merle L., 3,466,388.
Rudduck, Roger C.; and Wang, Johnson J. H., 3,466,653.
Tomlinson, Richard G., 3,433,555.
Ohio State University, The: *See—*
Fenton, Robert E., 3,478,351.
Kasza, Louis, 3,432,595.
Ohio State University, The Board of Trustees of the: *See—*
Libby, Ross C., 3,434,074.
McMaster, Robert C.; Libby, Charles C.; and Minchenko, Hildegard M., 3,475,628.
Newman, Melvin S.; and Karnes, Harold A., 3,476,791.
Rhoten, Merle L., 3,466,473.
Ohira, Tsunehisa, to Victor Company of Japan, Limited. Device for detachably mounting a tape cartridge for use in a tape recorder. 3,458,158, 7-29-69, Cl. 242-55.13
Ohkawa, Motokazu: *See—*
Kuriyagawa, Mamoru; Yagi, Motoi; and Ohkawa, Motokazu,3,484,566.
Ohki, Eiji: *See—*
Iwai, Issei; Ohki, Eiji; Oida, Sadao; and Takagi, Hiromu,3,475,439.
Ohki, Hayashi: *See—*
Ishida, Shin'Ichi; Kajihara, Akira; Tokushige, Akira; Ohki, Hayashi; and Sato, Kunio,3,471,998.
Ohki, Sadao: *See—*
Matsuo, Ichiro; and Ohki, Sadao,3,429,884.
Ohki, Sadao; and Kumada, Shigenobu, to Fujisawa Pharmaceutical Co., Ltd. 1,1-Diethyl-2-methyl-3-diphenylmethylenepyrrolidinium halide compositions and therapy. 3,483,294, 12-9-69, Cl. 424-274.
Ohki, Taketo: *See—*
Watanabe, Isaburo; Yoshioka, Haruo; Sanga, Seiji; Egashira, Shohachi; and Ohki, Taketo,3,429,680.
Ohkoshi, Akio; Machida, Hiromasa; and Fuse, Yuzo. Color picture tube. 3,462,641, 8-19-69, Cl. 315-21.
Ohkoshi, Akio; Nii, Takehiko; and Tsukamura, Yoshihiro, to Sony Corporation. Electron gun device. 3,437,868, 4-8-69, Cl. 315-15.
Ohkoshi, Akio: *See—*
Shimada, Satoshi; and Ohkoshi, Akio,3,444,421.
Ohkubo, Kinji; and Honjo, Satoru, to Fuji Shashin Film Kabushiki Kaisha. Reproduction process including transfer and redevelopment of electrostatically formed images. 3,473,923, 10-21-69, Cl. 96-1.4
Ohkubo, Kinji; and Noguchi, Junpei, to Fuji Shashin Film Kabushiki Kaisha. Reproduction process. 3,444,809, 5-20-69, Cl. 101-470.
Ohl, Werner Friedrich; and Passavant, Rudolf Christian, to Passavant-Werke. Waste water purification apparatus. 3,435,954, 4-1-69, Cl. 210-220.
Ohlbaum, Robert A. Threaded fastener assembly. 3,435,869, 4-1-69, Cl. 151-15.
Ohlemacher, David H.; and Them, Edward G., to Therm-O-Disc, Incorporated, mesne. Thermostat with manual reset. 3,470,517, 9-30-69, Cl. 337-348.
Ohlgren, Harold A. Preparation of finely-divided crystalline metal carbides. 3,438,729, 4-15-69, Cl. 23-208.
Ohlheiser, Carlton Edward, to Hygrodynamics, Inc. Ground moisture measuring apparatus. 3,477,282, 11-11-69, Cl. 73-76.
Ohlig, Heinz: *See—*
Huhndorf-Richter, Bernhard; Von Der Decken, Claus-Benedikt; and Ohlig, Heinz,3,439,804.
Ohlig, Karl P.: *See—*
Pankonin, Earl; and Ohlig, Karl P.,3,455,205.
Ohlrogge, Alvin J.: *See—*
Army, Thomas J.; and Ohlrogge, Alvin J.,3,459,532.
Ohlschlager, Hans; and Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Photographic material containing antihalation or filter dye layer. 3,485,632, 12-23-69, Cl. 96-84.
Ohlschlager, Hans; Riester, Oskar; Muller, Herbert; and Reckziegel, Erich, to Agfa-Gevaert Aktiengesellschaft. Antihalation and filter dyes for photographic materials. 3,471,293, 10-7-69, Cl. 96-84.
Ohlsen, Gerald G.: *See—*
McKibben, Joseph L.; Ohlsen, Gerald G.; and Stevens, Ralph R., Jr.,3,466,442.
Ohlson, Bengt E.: *See—*
Downey, David F.; Le Baigue, Jacques L.; and Ohlson, Bengt E.,3,432,997.
Ohlson, John F. Spring beam load limiting nut. 3,425,314, 2-4-69, Cl. 85-61.
Ohlson, John L.: *See—*
Isgur, Irving E.; and Ohlson, John L.,3,472,808.
Ohlson, Stig Matt Lennart, to Kockums Mekaniska Verkstads Aktiebolag. Self-propelled vehicle having three-wheeled sections. 3,450,222, 6-17-69, Cl. 180-23.
Ohlsson, Olof Werner, to Industrilaboratoriet Aktiebolag. Apparatus for controlling physical quantities. 3,420,263, 1-7-69, Cl. 137-392.
Ohlsson, Olof W., to Industrilaboratoriet Aktiebolag. Temperature responsive transducer. 3,484,848, 12-16-69, Cl. 73-362.
Ohlswager, Sanley; and Edison, Robert R., to Sinclair Research, Inc.Separation of p-xylene from a C_8 aromatic hydrocarbon mixture by crystallization. 3,462,510, 8-19-69, Cl. 260-674.
Ohlswager, Stanley: *See—*
Dresser, Thorpe; and Ohlswager, Stanley,3,462,508.
Dresser, Thorpe; Ohlswager, Stanley; and Edison, Robert,3,462,509.
Ohlswager, Stanley; and Edison, Robert, to Sinclair Research, Inc.Separation of p-xylene from A C_8 aromatic hydrocarbon mixture by crystallization. 3,462,506, 8-19-69, Cl. 260-674.
Ohlund, John Alex Ingvar, to Saab Aktiebolag. Weapon counterfire simulator. 3,423,848, 1-28-69, Cl. 35-25.
Ohlund, John Alex Ingvar, to Saab Aktiebolag. Gunnery practice apparatus employing laser beams. 3,452,453, 7-1-69, Cl. 35-25.
Ohlund, John Alex Ingvar, to Saab Aktiebolag. Modulated carrier radio control apparatus. 3,466,609, 9-9-69, Cl. 340-171.
Ohlund, John Alex Ingvar; and Andersson, Torsten Wilhelm, to Saab Aktiebolag. Gunnery practice scoring apparatus. 3,479,032, 11-18-69, Cl. 273-102.2
Ohm, Edward A., to Bell Telephone Laboratories, Incorporated. Optical wave modulator with suppressed piezoelectric resonances. 3,454,325, 7-8-69, Cl. 350-160.
Ohman, Karl Yngve: *See—*
Agdur, Nils Bertil; Sellberg, Florian; Boling, Kurt Goran Rafael; and Ohman, Karl Yngve,3,468,006.
Ohmart Corporation, The: *See—*
Rowe, Snowden, 3,438,047.
Ohmasu, Atsushi. Travelling shear. 3,442,167, 5-6-69, Cl. 83-308.
Ohme, Howard R., to PPG Industries, Inc. Water washing polyesters of carbonic acid and diphenols. 3,470,133, 9-30-69, Cl. 260-47.
Ohmega Laboratories: *See—*
Mison, Richard M., 3,449,697.
Ohmori, Tadashi; and Kuwata, Tsutomu, to Nippon Oil Company, Limited. Process for the selective production of unsaturated aliphatic nitriles. 3,424,782, 1-28-69, Cl. 260-465.3
Ohmura, Jukichi: *See—*
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi,3,474,068.
Ohmura, Ryuichi, to Fuji Kogyo Company Limited. Seating device for fishing reel. 3,461,594, 8-19-69, Cl. 43-22.

Ohmura, Yoshito: *See—*
Miwa, Ichiro; and Ohmura, Yoshito,3,449,682.

Ohnacker, Gerhard: *See—*
Woitun, Eberhard; and Ohnacker, Gerhard,3,475,429.

Ohnborn, Kurt. Electric cigarette lighter. 3,471,679, 10-7-69, Cl. 219-269.

Ohneda, Shoichi: *See—*
Amako, Shigeyuki; and Ohneda, Shoichi,3,483,411.

Ohno, Atsumi, to Sekisui-Suponji-Kogyo Kabushiki Kaisha. Method of manufacturing porous riser insulating sleeve. 3,470,276, 9-30-69, Cl. 264-44.

Ohno, Ictatsu. Apparatus for cleaning the exhaust gas of an engine. 3,446,011, 5-27-69, Cl. 60-30.

Ohno, Ietatsu. Grinding device. 3,474,574, 10-28-69, Cl. 51-164.

Ohno, Kazuhiko; and Mori, Yoichi, to Nissan Jidosha Kabushiki Kaisha. Torque split-type automatic speed change device. 3,446,094, 5-27-69, Cl. 74-688.

Ohno, Kazuhiko; and Mori, Yoichi, to Nissan Jidosha Kabushiki Kaisha. Torque split type automatic speed change device. 3,455,185, 7-15-69, Cl. 74-688.

Ohno, Tomeji: *See—*
Akashi, Tsuneo; Takahashi, Masao; and Ohno, Tomeji,3,481,875.
Akashi, Tsuneo; Takahashi, Masao; Tsubouchi, Norio; Ohno, Tomeji; and Yamauchi, Fumio,3,461,071.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo,3,484,377.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo,3,487,019.

Ohnsorge, Horst; and Haller, Ulrich, to Telefunken Patentverwertungsgesellschaft m.b.H. Circuit. 3,458,654, 7-29-69, Cl. 178-23.

Ohntrup, Frederick F., to Eaton Yale & Towne, Inc. Movable upright assembly with a laterally and pivotally mounted carrier. 3,460,699, 8-12-69, Cl. 214-660.

Ohoshima, Nobumasa; and Sugi, Eiichi, to Matsushita Electric Industrial Co., Ltd. Reversible film-viewing apparatus. 3,445,163, 5-20-69, Cl. 353-77.

Ohoshima, Nobumasa; and Sugi, Eiichi, to Matsushita Electric Industrial Co., Ltd. Film editing apparatus with reversible image intensifier. 3,446,550, 5-27-69, Cl. 352-105.

Ohrberg, Carl V., to Danfoss A/S. Rotary slide valve for fluid motors and pumps. 3,473,437, 10-21-69, Cl. 91-56.

Ohrberg, Carl V., to Danfoss A/S. Combination centrifugal and magnetic separator device. 3,478,887, 11-18-69, Cl. 210-223.

Ohren, Tom H.: *See—*
Jacobsen, Ronald Lowell; Kristoff, William Robert; Ohren, Tom H.; and Spatz, Dale,3,482,947.

Ohrnberger, Peter H., to Lamb, F. Jos, Co., Inc. Hydrostatic centering device. 3,427,015, 2-11-69, Cl. 269-25.

Ohrnberger, Peter H.; and Opperthauser, Orval A. Lamb, Jose. F., Co., Inc. Feed-out head for machine tools. 3,443,458, 5-13-69, Cl. 77-58.

Ohsaki, Iwao; Fukui, Kazuyoshi; and Kitamura, Shinzo, to Tokyo Boseki Kabushiki Kaisha, and Kanpatsu Kogyo Kabushiki Kaisha. Lap forming and doffing method and its apparatus. 3,459,386, 8-5-69, Cl. 242-55.1

Ohsawa, Takeyoshi: *See—*
Sowa, Tuneo; Sato, Kenji; Ouchi, Shunji; Ohsawa, Takeyoshi; and Senoo, Saburo,3,466,273.

Ohshima, Noboru: *See—*
Inoue, Goro; and Ohshima, Noboru,3,442,940.

Ohshima, Shichiro: *See—*
Imahayashi, Mamoru; and Ohshima, Shichiro,3,480,465.

Ohsol, Ernest O., to Haveg Industries, Inc. Extruded foamed fibers. 3,424,645, 1-28-69, Cl. 161-175.

Ohsol, Ernest O., to Chemical Construction Corporation. High pressure sulfuric acid process. 3,432,263, 3-11-69, Cl. 23-168.

Ohta, Masanori, to Daikin Kogyo Co., Ltd. Removal of liquid particles during distillation from gases with porous polytetrafluoroethylene paper. 3,455,792, 7-15-69, Cl. 203-40.

Ohta, Shigenori: *See—*
Samejima, Hirotoshi; Nagano, Yuji; and Ohta, Shigenori,3,450,712.

Ohta, Susumu: *See—*
Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi,3,484,866.

Ohtani, Masasuke: *See—*
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru,3,484,334.

Ohtsu, Tadayasu; and Nagano, Masahiko, to Victor Company of Japan, Limited. Circuit for synchronizing the rotary position of transducer heads on a magnetic tape player. 3,483,319, , Cl. 178-6.6

Ohtsuka, Shunzo; and Doi, Tadashi, to Kao Soap Co., Ltd. Method of preparing cationic bitumen emulsions. 3,466,247, 9-9-69, Cl. 252-311.5

Ohuchi, Yoshihiro: *See—*
Hori, Masao; Fujimura, Tadato; Ohuchi, Yoshihiro; and Torigai, Kinichi,3,466,154.

Ohya, Haruhiko: *See—*
Ikeda, Osamu; Ayaki, Kazuo; and Ohya, Haruhiko,3,472,891.

Ohya, Minoru; and Uozumi, Sumio, to Toyota Motor Co., Ltd. Speed change gearing devices. 3,425,300, 2-4-69, Cl. 74-763.

Ohyama, Yasushi; and Miyazawa, Sadayuki, to Mitsubishi Paper Mills, Ltd. Color photographic material. 3,436,219, 4-1-69, Cl. 96-77.

Ohzeki, Takao: *See—*
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru,3,437,620.

Oickle, Charles, Jr.: *See—*
Peters, George T.; and Oickle, Charles, Jr.,3,434,569.

Oida, Sadao: *See—*
Iwai, Issei; Ohki, Eiji; Oida, Sadao; and Takagi, Hiromu,3,475,439.

Oido, Hikofumi: *See—*
Hayashi, Yoshiki; and Oido, Hikofumi,3,438,773.

Oien, Hans T.: *See—*
Vogel, Herward A.; and Oien, Hans T.,3,431,240.

Oiestad, Andrew, to Automotive Rubber Company, Inc. Variable orifice gas scrubber. 3,427,006, 2-11-69, Cl. 261-112.

Oikado, Taizo: *See—*
Kobayashi, Haruhiro; and Oikado, Taizo,3,478,279.

Oikawa, Tadashi; and Yaguchi, Hiroyasu, to Kabushiki Kaisha Nihon Seikosho. High speed forging hammer apparatus. 3,469,400, 9-30-69, Cl. 60-57.

Oil Capital Valve Company: *See—*
Radford, Robert E., 3,473,784.

Oil Center Research, Inc.: *See—*
Hinds, Cyril, 3,428,459.
Hinds, Cyril, 3,445,393.

Oil States Rubber Co.: *See—*
Harris, Glen H., 3,468,132.

Oishi, Toshio: *See—*
Yoshioka, Hiroshi; Oishi, Toshio; and Kanehira, Kenji,3,468,829.

Oiso, Mitsuo, to Fujitsu Limited. Electric rotary step motor with plural offset stator windings. 3,437,854, 4-8-69, Cl. 310-49.

Oita, Katashi; Pierson, Darrell E.; Ottaway, James N.; and Caster, Richard W., to Weyerhaeuser Company. Apparatus for applying and spreading a coating on a core material. 3,428,024, 2-18-69, Cl. 118-125.

Oja, Carl W.; and Scheuerman, Richard L., said Scheuerman, assor. to said Oja. Floor contacting brake mechanism. 3,422,929, 1-21-69, Cl. 188-5.

Oja, Phyllis D., to Dow Chemical Company, The. Nonthrombogenic plastic membranes. 3,441,142, 4-29-69, Cl. 210-321.

Ojala, William K., to Ford Motor Company. Distributor spark advance mechanism. 3,424,875, 1-28-69, Cl. 200-19.

Ojard, Dennis R., to United States of America, Air Force. Rain rate gauge. 3,472,088, 10-14-69, Cl. 73-171.

Ojelid, Goran Axel Runo, to Husqvarna Vapenfabriks Aktiebolag. Apparatus for treating articles with microwave energy. 3,422,239, 1-14-69, Cl. 219-10.55

Ojelid, Goran Axel Runo, to Husqvarna Vapenfabriks Aktiebolag. Apparatus for dielectric heating. 3,467,803, 9-16-69, Cl. 219-10.55

O.K. Tire and Rubber Co., Inc.: *See—*
French, Elby Edward, 3,428,365.
French, Elby Edward, 3,464,264.

Oka, Katsuaki; Tokiura, Shohei; Yamamoto, Tatsuo; Sasaki, Yoshikazu; and Ishida, Hideo, to Ube Industries Ltd. Anionic polymerization of lactams with N- chlorocarbonyl-2-chloro-2,3-dehydropolmethylenimine as cocatalyst. 3,455,885, 7-15-69, Cl. 260-78.

Oka, Osamu: *See—*
Ueyanagi, Jisaburo; Iwasaki, Hidesuke; Kamiya, Takaaki; and Oka, Osamu,3,444,187.

Oka, Tanchiko; Miki, Ikuo; and Kawahara, Takao, to Mitsubishi Jukogyo Kabushiki Kaisha. Bulk carrier. 3,421,639, 1-14-69, Cl. 214-15.

Oka, Yoshikazu: *See—*
Hirano, Hiroshi; Masuda, Katsutada; Numata, Mitsuo; and Oka, Yoshikazu,3,455,956.

Okabe, Hideo: *See—*
Yoshida, Hiroshi; Okabe, Hideo; Sasaki, Kenji; Nonaka, Hiroshi; Nakagawa, Kichizaemon; and Igarashi, Kiyoyuki,3,457,984.

Okabe, Kenzo. Infinitely variable friction drive. 3,420,122, 1-7-69, Cl. 74-796.

Okabe, Yuji: *See—*
Takaoka, Takashi; and Okabe, Yuji,3,463,898.

Okada, Masahiko: *See—*
Marvel, Carl S.; Okada, Masahiko; and De Schryver, Frans,3,475,374.

Okada, Masashi: *See—*
Kawai, Eiichi; and Okada, Masashi,3,423,633.

Okada, Shigetaka; and Ono, Masayuki, to Tanabe Seiyaku Co., Ltd. Prevention of clouding of syrup in which canned orange segments are preserved. 3,484,255, 12-16-69, Cl. 99-154.

Okada, Takasi; and Nakamura, Masaru, to Nippon Electric Company, Limited. Semi-conductor device with Schottky barrier formed on (100) plane of GaAs. 3,457,473, 7-22-69, Cl. 317-234.
Okada, Tsutomu: *See—*
Tsunoda, Yoshimasa; Iwata, Hideo; Okada, Tsutomu; and Aso, Kotaro,3,475,801.
Okada, Yoichi; Watanabe, Tsutomu; Hirai, Koji; and Fujii, Kazutoshi, to Sumitomo Bakelite Company Limited. Process for making film type hot melt adhesives using far ultraviolet light. 3,484,351, 12-16-69, Cl. 204-159.2
Okagami, Akio: *See—*
Sato, Fukuzo; Okagami, Akio; and Ueno, Toshihiro,3,452,106.
Okamoto, Atutosi; Taniguchi, Koichi; and Nakano, Yoshiaki, to Nippon Denso Company Limited. Antiskid apparatus for automotive vehicles. 3,467,443, 9-16-69, Cl. 303-21.
Okamoto, Hajime; and Koshimura, Saburo, to Chugai Seiyaku Kabushiki Kaisha and Kyowa Hokko Co. Ltd. Treating method of streptococcus hemolyticus and the preparation containing the said microorganism. 3,477,914, 11-11-69, Cl. 195-96.
Okamoto, Haruki, to Mitsubishi Denki Kabushiki Kaisha. Collision preventing system. 3,474,444, 10-21-69, Cl. 343-7.
Okamoto, Hideo, to Toyo Kogyo Company Limited, and Nippon Piston Ring Company Limited. Seal construction for rotary combustion engine. 3,456,624, 7-22-69, Cl. 123-8.
Okamoto, Hiroaki; and Murakami, Yoshio, to Tokyo Shibaura Electric Co., Ltd. Diffusion pump. 3,442,440, 5-6-69, Cl. 230-101.
Okamoto, Kazuo: *See—*
Igarashi, Yukio; Komatsu, Makoto; Fujiyama, Susumu; and Okamoto, Kazuo,3,432,556.
Okamoto, Kenjiro, to Nippon Seiko Kabushiki Kaisha. Safety steering assembly. 3,479,902, 11-25-69, Cl. 74--492
Okamoto, Kenjiro; and Okoshi, Hideo, to Nippon Seiko Kabushiki Kaisha. Safety steering assembly. 3,470,761, 10-7-69, Cl. 74-492.
Okamoto, Kenya: *See—*
Nozaki, Toshio; Mori, Kunihito; Ushirokajitani, Yoshiyuki; and Okamoto, Kenya,3,485,370.
Okamoto, Kozo: *See—*
Shigeta, Yukio; Okamoto, Kozo; and Terumichi, Jiro,3,426,125.
Okamoto, Michio; and Mitsuhashi, Kiyohiko, to Nippon Columbia Kabushikikaisha (Nippon Columbia Co., Ltd.). Automatic rhythm instrument. 3,482,027, 12-2-69, Cl. 84-1.03
Okamoto, Tsugio: *See—*
Masai, Shohachi; Kawakami, Shigemitsu; and Okamoto, Tsugio,3,436,296.
Okamoto, Yoshiharu: *See—*
Mizushima, Yoshihiko; and Okamoto, Yoshiharu,3,469,117.
Okamoto, Yoshinori: *See—*
Honda, Soichiro; and Okamoto, Yoshinori,3,435,708.
Okamoto, Yoshinori, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Driving apparatus for a motorized two wheel vehicle. 3,438,277, 4-15-69, Cl. 74-371.
Okamoto, Yoshinori; and Onda, Takanori, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Change speed apparatus for a vehicle. 3,421,384, 1-14-69, Cl. 74-474.
Okamura, Hiroshi, 1/2 to Hisao Sato Nishigahara, and 1/2 to Fuji Spinning Company Limited. Method of disintegrating split leather or leather scrap. 3,441,470, 4-29-69, Cl. 162-2.
Okamura, Kazuo, to Daikin Kogyo Kabushiki Kaisha. Stabilized chlorofluoroalkane composition. 3,445,527, 5-20-69, Cl. 260-652.5
Okamura, Kazuo, to Daikin Kogyo Kabushiki Kaisha. Stabilized chlorofluoroalkane compositions. 3,465,052, 9-2-69, Cl. 260-652.5
Okamura, Seizo: *See—*
Flodin, Per Gustaf Magnus; Kornfeldt, Per; Okamura, Seizo; and Higashimura, Toshinobu,3,442,862.
Okamura, Shiro. Variable delay device. 3,425,002, 1-28-69, Cl. 333-30.
Okamura, Shiro. Camera device utilizing a fan-like array of optical fibers. 3,473,872, 10-21-69, Cl. 355-1.
Okanagan Copter Sprays, Ltd.: *See—*
Hubbard, Albert W., 3,428,276.
O'Kane, Patrick T.:*See—*
Veltman, Herbert; O'Kane, Patrick T.; Gulyas, James W.; and Middagh, William R.,3,477,927.
O'Kane, Roger J., Jr.:*See—*
Maceyka, Joseph G.; O'Kane, Roger J., Jr.; and Kothe, Hans,3,436,998.
Okano, Atsuji; Moroi, Reimei; and Naito, Takeo, to Daiichi Seiyaku Company Limited, and Mitsubishi Chemical Industries Limited of Japan. Preparation of trans-4-aminomethyl-cyclohexane- 1-carboxylic acid. 3,448,144, 6-3-69, Cl. 260-514.
Okano, Atsuji: *See—*
Naito, Takeo; Okano, Atsuji; and Miki, Tosaku,3,449,411.
Okano, Hiroshi, to Hitachi, Ltd. X-ray analyzing element. 3,469,098, 9-23-69, Cl. 250-51.5
Okano, Kinpei: *See—*
Tonooka, Hidenori; and Okano, Kinpei,3,433,542.
Okany, Antonia, to Canada Packers Limited. Process for the isolation of phosphatidyl serine. 3,436,413, 4-1-69, Cl. 260-403.
Okauchi, Tetsuo: *See—*
Kamada, Masaki; and Okauchi, Tetsuo,3,425,838.
Okawara, Rokuro; and O'Hara, Mtsuaki, to M & T Chemicals, Inc. Method for preparing organotin hydrides. 3,439,010, 4-15-69, Cl. 260-429.7
Okaya, Akira; and de Witte, Serge, to Electro-Optical Systems, Inc. Ion laser having a metal tube shrink-fitted onto the ceramic discharge tube. 3,437,950, 4-8-69, Cl. 331-94.5
Okaya, Akira; and Kearns, William J., to Electro-Optical Systems, Inc. High-power ionized gas laser structure. 3,427,564, 2-11-69, Cl. 331-94.5
Okaya, Tsutomu: *See—*
Kosaka, Kenzo; Tsunewaki, Masami; Yonekura, Nobuaki; Okaya, Tsutomu; Mimatsu, Ken; and Mori, Tatsujiro,3,446,005.
Okazaki, Kaoru; Nakasatomi, Masaru; and Maruyama, Minoru, to Toyo Rayon Kabushiki Kaisha. Method of manufacture of powdery synthetic linear polyamides. 3,446,782, 5-27-69, Cl. 260-78.
Okazaki, Masao; Mori, Atsuo; Toda, Namihiro; and Hara, Isao, to Sumitomo Chemical Company, Ltd. Blends comprising polypropylene, polyethylene, and an ethylene-propylene block copolymer. 3,487,128, 12-30-69, Cl. 260-876.
Okazaki, Narukazu, to Wakayama Tetsuko Kabushiki Kaisha. Cloth rinsing apparatus. 3,465,552, 9-9-69, Cl. 68-22.
Okazaki, Takeshi: *See—*
Ichimi, Teruhiko; Okazaki, Takeshi; Tsutsui, Nobuhiro; and Minami, Shinsaku,3,455,771.
Oonishi, Yasuo; Okazaki, Takeshi; and Kubo, Masashi,3,477,109.
Okean, Herman C., to Bell Telephone Laboratories, Incorporated. Single adjustment, variable selectivity-constant frequency coaxial transmission line filter. 3,444,485, 5-13-69, Cl. 333-73.
O'Keefe, Clarisse L.; and Graham, Glenna R.Bed patient's gown. 3,443,260, 5-13-69, Cl. 2-114.
O'Keefe, John Thomas:*See—*
O'Brien, Jeremiah Wagner; and O'Keefe, John Thomas,3,420,084.
O'Keefe, John Thomas, to United Engineering and Foundry Company. Slab handling apparatus. 3,456,819, 7-22-69, Cl. 214-26.
O'Keefe, Michael Francis; and Fan, John Changnien, to AMP Incorporated. Coaxial connector plug and receptacle assembly. 3,445,794, 5-20-69, Cl. 333-97.
O'Keefe, Michael Francis; and Stull, Robert Stanley, to AMP Incorporated. Coaxial jack. 3,437,982, 4-8-69, Cl. 339-177.
O'Keefe, Michael Francis; Stull, Robert Stanley; and Greene, Loy Richard, to AMP Incorporated. Coaxial connector having switchable load means. 3,459,906, 8-5-69, Cl. 200-51.1
O'Keefe, Robert B.:*See—*
Schwartz, Melvin M.; and O'Keefe, Robert B.,3,457,630.
O'Keefe, Robert F., to Pitney-Bowes, Inc. Fluidic device. 3,469,593, 9-30-69, Cl. 137-81.5
O'Keefe, Walter C.:*See—*
Wasserman, Saul; Salzman, Robert; and O'Keefe, Walter C.,3,464,356.
Okeon, David M.: *See—*
Wurzburg, Richard; and Okeon, David M.,3,436,854.
Okey, Donald C. Duplicating apparatus. 3,468,353, 9-23-69, Cl. 144-144.
Okey, Robert W.: *See—*
Budd, William E.; and Okey, Robert W.,3,472,765.
Oki Densen Kabushiki Kaisha: *See—*
Akachi, Hisateru, 3,446,001.
Okinaka, Yutaka, to Bell Telephone Laboratories, Incorporated. Electrolyte additives for nickel-cadmium cells. 3,440,099, 4-22-69, Cl. 136-6.
Okita, Hideki, to Osaka Transformer Co., Ltd., The. Slide transformers and slide reactor devices. 3,461,379, 8-12-69, Cl. 323-43.5
Oklahoma State University of Agriculture & Applied Science: *See—*
Hughes, William L.; Summers, Claude M.; and Allison, Hansell Jack, 3,424,620.
Hughes, William L.; and Brauser, Stanley O., 3,459,953.
Hughes, William Lewis; Summers, Claude Menta; and Allison, Hansell Jack, 3,477,878.
Porterfield, Jay G.; and Batchelder, David G., 3,442,262.
Okolowicz, Marian A.: *See—*
Harlam, Gerald F.; and Okolowicz, Marian A.,3,421,924.
Okon, R. J., Company, Inc.: *See—*
Coyle, Harry H.; and Michelsen, Johan L., 3,467,403.
Okoniewski, Robert J.: *See—*
Cordone, Leonard; Dobslaw, Gerhardt A.; and Okoniewski, Robert J.,3,454,061.
Okonite Company, The: *See—*
Brown, Grover W.; and Kingsley, Kenyon W., 3,485,939.
Eigen, David, 3,421,076.
Eigen, David, 3,466,537.
Kingsley, Kenyon W., 3,485,938.
Sheets, Chester R., 3,435,602.
Okoshi, Hideo: *See—*
Okamoto, Kenjiro; and Okoshi, Hideo,3,470,761.
Okouchi, Hideo: *See—*
Kaneko, Kyozo; Matsuzawa, Tadahiro; Okouchi, Hideo; Nishimura, Tadao; and Yamamoto, Yukimasa,3,466,338.

O. K. Partnership: *See—*
Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D., 3,450,261.
Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D., 3,469,774.
Parry, Robert D., 3,478,877.
Okress, Ernest C., to American Standard Inc. Quasi-cronaaerodynamic vehicle. 3,464,207, 9-2-69, Cl. 60-202.
Oksengorn, Boris: *See—*
Dumartin, Serge; Oksengorn, Boris; Tobin, Marvin; and Vodar, Boris,3,469,920.
Oku-Automatik Otto Kurz, Firma: *See—*
Albeck, Bernhard; and Eissele, Heini, 3,464,535.
Okubo, Hideyo: *See—*
Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio,3,470,073.
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakuni, Masahiko,3,480,521.
Okubo, Ichiro; and Tsujimoto, Michihiro, to Mitsui Kagaku Kogyo Kabushiki Kaisha, (Mitsui Chemical Industry Co., Ltd.). Optical whitening of organic materials. 3,475,341, 10-28-69, Cl. 252-301.2
Okubo, Kinji: *See—*
Honjo, Satoru; and Nagai, Toshihiko,3,433,951.
Okubo, Kinji; Honjo, Satoru; and Nagai, Toshihiko, deceased,0 (by Kenichi, Nagai, legal representative), to Fuji Shashin Film Kabushiki Kaisha. Infrared copying process and copying material which releases water of crystallization. 3,431,412, 3-4-69, Cl. 250-65.
Okubo, Masuta: *See—*
Kawawa, Takaho; and Okubo, Masuta,3,452,973.
Okubo, Tadashi; and Saotome, Minoru, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method of purifying ethanolamines. 3,453,183, 7-1-69, Cl. 203-33.
Okuda, Ikuo: *See—*
Ito, Mikiji; and Okuda, Ikuo,3,455,105.
Okuda, Itsuki; Yoshinaga, Eiichi; and Tsuboi, Takeo, to Kumiai Chemical Industry Co., Ldt. Control of powdery mildew with nitronaphthonitriles. 3,432,601, 3-11-69, Cl. 424-304.
Okuda, Jiro: *See—*
Shimasaki, Nobuhiko; and Okuda, Jiro,3,478,171.
Okuda, Makoto; and Fujishima, Akira, to Maruzen Sewing Machine Co., Ltd. Calculating machine. 3,468,480, 9-23-69, Cl. 235-137.
Okuda, Minoru: *See—*
Osaka, Matajiro; Uoda, Hidetaka; Horii, Shigeo; and Okuda, Minoru,3,442,605.
Okuda, Noriyuki; Kuniyoshi, Ieji; Saito, Tadashi; and Oguri, Koji, to Daiichi Seiyaku Company, Limited. Process for optical resolution of racemic pantolactone. 3,480,645, 11-25-69, Cl. 260-326.14
Okuda, Noriyuki; Kuniyoshi, Ieji; and Tsukamoto, Hisashi, to Daiichi Seiyaku Company, Limited. Process for optical resolution of calcium pantothenate. 3,481,976, 12-2-69, Cl. 260-534.
Okuda, Osamu, to Sanyo Electric Co., Ltd. Television linearity control means. 3,434,001, 3-18-69, Cl. 315-27.
Okuda, Tomoya: *See—*
Watanabe, Hiroshi; Okuda, Tomoya; and Takamura, Yoshio,3,428,849.
Okuma Machinery Works Ltd.: *See—*
Narukiyo, Yasumasa, 3,478,346.
Okumura, Akio: *See—*
Yoshida, Makoto; Okumura, Akio; and Shiba, Keisuke,3,459,552.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio,3,469,986.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio,3,481,741.
Okumura, George K.; and Wilkinson, Jack E. Method of processing vegetable food product of chip form. 3,442,658, 5-6-69, Cl. 99-83.
Okumura, Hideo: *See—*
Kusuda, Fuyuki; Murayama, Masao; Matsuo, Yoshiharu; Okumura, Hideo; and Tatewaki, Nobukiyo,3,442,892.
Okumura, Masami: *See—*
Doi, Shunichi; Tanaga, Hidenori; and Okumura, Masami,3,426,070.
Okumura, Shinji; Yoshinaga, Fumihiro; and Yoshihara, Yasuhiko, to Ajinomoto Co., Inc. Method of producing alanine by enzyme action. 3,463,704, 8-26-69, Cl. 195-29.
Okumura, Shinji: *See—*
Kaai, Jiro; Ninomiya, Tsunehiko; Okumura, Shinji; and Hayashi, Koichi,3,457,083.
Okumura, Tomisaburo, to Matsushita Electronics Corporation. Method of producing semiconductor devices. 3,422,528, 1-21-69, Cl. 29-584.
Okumura, Tomisaburo, to Matsushita Electronics Corporation. Field-effect transistor having insulated gates. 3,453,506, 7-1-69, Cl. 317-235.
Okuno, Yositosi: *See—*
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,428,651.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,440,245.
Muramoto, Noboru; Fujimoto, Keimei; and Okuno, Yositosi,3,444,273.
Okutsu, Shinkichi; Nariai, Noriyuki; Takagi, Takeshi; and Uehara, Keijiro, to Kabushiki Kaisha Hitachi Seisakusho. Surface treatment for semiconductor devices. 3,447,958, 6-3-69, Cl. 117-201.
Okuya, Eitaro; Ito, Tokuo; Sakaguchi, Akio; Komatsu, Koei; and Yasunaga, Hidetoshi, to Japan Synthetic Rubber Co., Ltd.Process for the polymerization of butadiene employing a three component catalyst plus a molecular weight jump agent. 3,454,680, 7-8-69, Cl. 260-94.3
Okuya, Eitaro; Sakaguchi, Adio; Komatsu, Kouei; Kikuchi, Tatsuhiko; Yasunaga, Hidetoshi; and Andueda, Kenichi. Method of producing butadiene polymer having high percentage of cis-1,4 configuration. 3,432,515, 3-11-69, Cl. 260-94.3
Okuzumi, Yuzi, to Goodyear Tire & Rubber Company, The. Preparation of polyesters by ester interchange and condensation reactions using manganese octoate as catalyst. 3,446,763, 5-27-69, Cl. 260-22.
Okuzumi, Yuzi, to Goodyear Tire & Rubber Company, The. Solid state dyeing of polyesters. 3,487,041, 12-30-69, Cl. 260-40.
Olaer Patent Company: *See—*
Mercier, Jacques H., 3,450,162.
Mercier, Jacques H.; and Corbellini, Carlo, 3,450,163.
Mercier, Jacques H., 3,486,530.
Olalainty, Edouard. Handwriting training device. 3,423,851, 1-28-69, Cl. 35-37.
Olander, Donald Edgar, to Explosive Technology, Inc. Pyrotechnic composition. 3,480,489, 11-25-69, Cl. 149-22.
Olander, Roland J., to Miner, W. H., Inc. Car door mechanism. 3,440,682, 4-29-69, Cl. 16-99.
Olander, William C.: *See—*
Link, William T.; and Olander, William C.,3,484,643.
Olashaw, William F., to General Electric Company. Modular component bus system with pass-thru insulator. 3,463,968, 8-26-69, Cl. 317-120.
Olasz, Joseph S., to Hamilton Watch Company. Adjustment feeler holder. 3,425,130, 2-4-69, Cl. 33-143.
Olasz, Joseph S.; and Jackson, Roderick M., to Hamilton Watch Company. Linear to rotary movement indicating gauge. 3,483,627, 12-16-69, Cl. 33-172.
Olchawa, Joseph M., to Hewitt-Robins Incorporated. Drive mechanism operating against variable resistance. 3,469,806, 9-30-69, Cl. 244-46.
Olcott, Bernard: *See—*
Lorber, Leslie Howard, 3,429,702.
Reder, Josef, 3,445,093.
Olcsan, Louis J., Jr.: *See—*
Hofmeister, Konrad J.; and Olcsan, Louis J., Jr.,3,428,813.
Oldberg Manufacturing Company: *See—*
Whisler, Ralph H., Jr., 3,470,986.
Oldberg, Sidney: *See—*
Berryman, Charles O.; Oldberg, Sidney; and Carey, William R.,3,441,290.
Olden, Roger G., to Radio Corporation of America. Electrophotographic method. 3,442,645, 5-6-69, Cl. 96-1.4
Olden, Roger G., to RCA Corporation. Electromagnetic pumping apparatus for use in electrophotography. 3,469,911, 9-30-69, Cl. 355-3.
Oldenburg, Charles C., to Chevron Research Company. Process for simultaneous solvent recovery from and granulation of asphalts. 3,434,966, 3-25-69, Cl. 208-309.
Oldenburg, Charles C., to Chevron Research Company. Process for simultaneous solvent recovery from and granulation of asphalts. 3,434,967, 3-25-69, Cl. 208-309.
Oldenburg, Charles C.: *See—*
Campbell, Ramsey G.; and Oldenburg, Charles C.,3,472,750.
Campbell, Ramsey G.; Oldenburg, Charles C.; and Simone, Raymond A.,3,437,652.
Oldenburg, Dorrance; Scheidt, James E.; and Shook, Donald L., to Caterpillar Tractor Company. Multispool control valve with limited series operation. 3,483,890, 12-16-69, Cl. 137-596.12
Oldenburg, Dorrance: *See—*
Sunderlin, Donald Edward; Staab, Jacob Emor; and Oldenburg, Dorrance,3,435,908.
Olderaan, Wilhelmus Franciscus Theodorus Carolus, to Metaalbedrijf Rademakers N.V. Hydrostatic axial piston transmission assembly. 3,442,181, 5-6-69, Cl. 92-57.
Oldershaw, Charles F.: *See—*
Mahon, Henry I.; and Oldershaw, Charles F.,3,455,460.
Oldfield, Thomas Alfred, to Plessey Company Limited, The. Engine-starting gas turbine systems. 3,481,145, 12-2-69, Cl. 60-39.14
Oldham, Alan Roger: *See—*
Dunning, Robert William; Joshi, Kamalakant Krishnarao; Oldham, Alan Roger; and Willott, Michael Christopher Kenneth,3,463,830.
Oldham, Albert H. Steering handle extension for outboard motor. 3,456,525, 7-22-69, Cl. 74-544.
Oldham, Albert H. Car top boat carrier. 3,460,693, 8-12-69, Cl. 214-450.
Oldham, Albert H. Outboard motor control. 3,475,985, 11-4-69, Cl. 74-512.

Oldham, Dale R., to Smith, Earl Dallas, mesne. Vehicle cleaning brush drive system. 3,448,473, 6-10-69, Cl. 15-21.
Oldham, Ira B.: *See*—
Jensen, Roy A.; and Oldham, Ira B.,3,480,919.
Oldham, Joseph, to Imperial Chemical Industries Limited. Polyolefines containing a minor amount of a polyamide having secondary or tertiary amine group. 3,465,060, 9-2-69, Cl. 260-857.
Oldham, Walter, to Frankenstein Group Limited. Stowages for inflatable liferafts. 3,448,471, 6-10-69, Cl. 9-11.
Oldham, Wilfred John, to British Hydrocarbon Chemicals Limited, mesne. Production of detergent alkylate. 3,442,964, 5-6-69, Cl. 260-671.
Oldham, Wilfred John, to British Hydrocarbon Chemicals Limited, mesne. Production of detergent alkylate and of olefines suitable for preparing such detergent alkylates. 3,442,965, 5-6-69, Cl. 260-671.
Oldham, Wilfred John; and Orr, John Scott, to Grange Chemicals Limited, mesne. Production of heavy alkylate. 3,422,162, 1-14-69, Cl. 260-671.
Olds, David W.: *See*—
Wolff, Ivan A.; and Olds, David W.,3,478,012.
Olds, Jim W.: *See*—
Weidman, Duane C.; and Olds, Jim W.,3,472,338.
Olds, Leonard E.: *See*—
Wesel, John R.; and Olds, Leonard E.,3,427,010.
Oldshue, James Y.; and Hirschland, Henry E., to Mixing Equipment Co., Inc. Multistage absorption column contactor for dispersing gas in liquids or slurries. 3,439,904, 4-22-69, Cl. 261-91.
Oldweiler, Morey E.: *See*—
Kimberlin, Charles Newton, Jr.; Ellert, Henry George; and Oldweiler, Morey E.,3,459,655.
O'Leary, James D. Wall construction. 3,435,577, 4-1-69, Cl. 52-309.
O'Leary, John P., to Interpace Corporation, mesne. Place setting packer. 3,432,026, 3-11-69, Cl. 206-47.
O'Leary, John P.; Woolaway, Thomas P.; Reese, Richard S.; and Feuchtwanger, Joseph, to Scio Pottery Company, The. Shipping and display package. 3,451,536, 6-24-69, Cl. 206-45.33
O'Leary, Ray. Electrical surface raceway wiring system. 3,471,629, 10-7-69, Cl. 174-49.
O'Leary, Walter E., to ACF Industries, Incorporated. Guide rail structure for railway flat cars. 3,437,056, 4-8-69, Cl. 105-368.
O'Leary, Walter E.; Thornton, Duane V.; and Buckthorpe, Tom C., to ACF Industries, Incorporated. Movable guide rail structure for railway flat cars. 3,440,971, 4-29-69, Cl. 105-368.
Olechowski, Jerome Robert; Chappell, Sterling Frank, III; and Hawkins, John J., to Columbian Carbon Company. Oligomerization process and catalyst for use in same. 3,457,319, 7-22-69, Cl. 260-677.
Oleck, Stephen M.; and Stover, William A., to Mobil Oil Corporation. Incorporation of zirconia into fluid catalysts to reduce coke formation. 3,471,410, 10-7-69, Cl. 252-454.
Olecko, Ray, to Structural Glass Limited. Septic tanks. 3,426,903, 2-11-69, Cl. 210-232.
Oleen, Donald C., to Nalco Chemical Company. Waterflood process using organic phosphate esters. 3,480,083, 11-25-69, Cl. 166-275.
Olejkowski, Stanley: *See*—
Ullman, John E.; and Olejkowski, Stanley,3,473,447.
Oleksiak, Joseph, to Adams-Russell Co., Inc. n-Way electrical power divider wherein n is an odd number. 3,428,920, 2-18-69, Cl. 333-8.
Oleksiak, Robert E.: *See*—
Alonso, Ramon L.; Oleksiak, Robert E.; and Turner, William B.,3,451,129.
Olenberg, Harry: *See*—
Russell, Joseph L.; and Olenberg, Harry,3,420,897.
Olesen, Irma, to Nordisk Droge- & Kemikalieforretning A/S. Supporting pad with massaging means. 3,459,179, 8-5-69, Cl. 128-60.
Olga Company: *See*—
Erteszek, Jan J., 3,421,516.
Erteszek, Olga, 3,422,818.
Erteszek, Olga, 3,444,862.
Olglebay Norton Company: *See*—
Charman, Walter M., Jr.; and Middaugh, George J., Jr., 3,477,493.
Olila, Howard E.: *See*—
Garrett, Howard R.; Rhino, Albert F.; and Olila, Howard E.,3,465,494.
Olin, John F., to Monsanto Company. Insecticidal and fungicidal use of N-aryl dithiooxamides. 3,422,202, 1-14-69, Cl. 424-328.
Olin, John F., to Monsanto Company. Herbicidal γhalo-N-cyclohexylacetamides. 3,429,690, 2-25-69, Cl. 71-118.
Olin, John F., to Monsanto Company. Phytotoxic α-halo-acetanilides. 3,442,945, 5-6-69, Cl. 260-562.
Olin, John F., to Monsanto Company. Herbicidal α-haloacetanilides. 3,475,156, 10-28-69, Cl. 71-118.
Olin, John F., to Monsanto Company. Herbicidal α-haloacetanilides. 3,475,157, 10-28-69, Cl. 71-118.
Olin, John F.; and Hamm, Philip C., to Monsanto Company. Herbicidal N-halo-α-haloacetanilides. 3,450,521, 6-17-69, Cl. 71-118.
Olin, John Frank, to Monsanto Company. N-Formylcarbanilates and their preparation. 3,457,296, 7-22-69, Cl. 260-471.
Olin Mathieson Chemical Corporation: *See*—
Aclin, John J.; and Junker, Joseph F., 3,464,355.
Ager, John W., Jr.; Heying, Theodore L.; and Mangold, Donald J., 3,463,820.
Alexander, Roy P.; and Schroeder, Hansjuergen A., 3,444,272.
Andrews, William R.; and Meehan, John L., 3,423,339.
Ardis, Alan E.; and Wojtowicz, John A., 3,446,819.
Badali, Joseph A.; Kulikowski, Victor Alexander; and Vartanian, Edwin S., 3,456,375.
Bailey, Randal E., 3,423,464.
Bender, Donald E.; and Doiron, David H., 3,446,017.
Bender, Donald E.; Kaytor, James; and Russell, Lowell L., 3,459,165.
Bernstein, Jack, 3,439,036.
Broverman, Irwin, 3,436,804.
Bruson, Herman A.; and Plant, Howard L., 3,466,332.
Bruson, Herman A.; and Plant, Howard L., 3,466,333.
Butts, Philip G., 3,473,981.
Caule, Elmer J.; Pryor, Michael J.; and Sperry, Philip R., 3,475,227.
Cimerol, Joseph J.; Clarke, William M.; and Denton, William I., 3,431,085.
Cohen, Stanley I.; and Puig, John E., 3,457,203.
Creamer, Robert J., 3,431,668.
Daniels, Frank J.; and Creith, Lou C., 3,474,931.
Derouen, Earl R., 3,430,607.
Dietrich, Heinz J.; Karabinos, Joseph V.; and Raynor, Robert J., 3,427,326.
Dixon, Glenn R.; and Findlay, David, 3,455,202.
Dore, James E.; and Carey, Richard R., 3,434,825.
Eichelman, George H., Jr., 3,464,865.
Eichelman, George H., Jr.; and Broverman, Irwin, 3,484,307.
Eller, Joe C.; and Person, John T., 3,461,080.
Faust, John P.; and Robson, Homer L., 3,440,024.
Findlay, David, 3,421,409.
Gambardella, Mario A.; Jache, Albert W.; and Kongpricha, Santad, 3,446,592.
Gamble, Elton S., 3,464,839.
Gavin, David F.; and Ottmann, Gerhard F., 3,441,622.
Gavin, David F.; Kober, Ehrenfried H.; and Schnabel, Wilhelm J., 3,450,740.
Hanford william E.; and Newman, Benjamin, 3,446,893.
Hanford, William E.; and Law, William E., 3,480,967.
Hazy, Andrew C.; and Karabinos, Joseph V., 3,440,289.
Heying, Theodore L.; and Papetti, Stelvio, 3,440,265.
Heying, Theodore L.; and Papetti, Stelvio, 3,450,739.
Higgins, John E., 3,463,676.
Hill, Harry E.; and Kaiser, Donald W., 3,439,068.
Hine, Fumio; Takehara, Zenichiro; and Yoshizawa, Shiro, 3,481,847.
Hofrichter, Charles H.; Haggerty, Thomas I.; and Zimmer, Gerald W., 3,463,745.
Hovey, Almon G.; and Andrews, William R., 3,457,178.
Jache, Albert W.; Kongpricha, Santad; and Pitts, James J., 3,451,775.
Jaeger, Ulric R., 3,439,739.
Kaiser, Donald W.; and Zane, John K., 3,434,982.
Kaiser, Donald W.; and Zane, John K., 3,438,986.
Knopp, Walter V., 3,434,831.
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F., 3,450,799.
Kober, Ehrenfried H., 3,462,492.
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F., 3,462,518.
Kober, Ehrenfried H.; Ottmann, Gerhard F.; and Hooks, Haywood, Jr., 3,480,672.
Kongpricha, Santad, 3,445,513.
Larchar, Trescott B., Sr., 3,445,427.
Michelson, Christian E.; Murphy, James F.; and Montgomery, David C., 3,423,298.
Morrow, Edward L., 3,431,669.
Morrow, Edward L., 3,432,956.
Myers, Lyell V., 3,465,406.
Nicolaisen, Bernard H., 3,440,327.
Nicolaisen, Bernard H., 3,446,719.
O'Brien, John J., 3,452,637.
Ottmann, Gerhard F.; and Hooks, Haywood, Jr., 3,433,803.
Ottmann, Gerhard F.; and Hooks, Haywood, Jr., 3,441,590.
Ottmann, Gerhard F.; and Gavin, David F., 3,470,169.
Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F., 3,481,967.
Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F., 3,481,968.
Papetti, Stelvio, 3,457,222.
Papetti, Stelvio, 3,457,223.
Papetti, Stelvio; and Schroeder, Hansjuergen A., 3,463,801.
Pauls, Theron F., 3,463,904.
Polak, Roger J.; and Zaslowsky, Joel A., 3,457,282.

Pryor, Michael J., 3,464,866.
Pryor, Michael J., 3,480,411.
Pryor, Michael J.; and Slusar, Richard J., 3,486,947.
Rader, William M.; Goldman, Alan J.; and Winter, Joseph, 3,470,607.
Ramsay, Marcus, 3,434,709.
Ramsay, Marcus, 3,474,560.
Ramsay, Marcus, 3,483,793.
Ratz, Rudi F. W.; and Bliss, Arthur D., 3,423,486.
Ratz, Rudi F. W.; and Bliss, Arthur D., 3,445,468.
Robson, Homer L.; and Hodges, Roy H., 3,461,202.
Saeman, Walter C.; and Wood, Judson A., 3,451,767.
Saeman, Walter C., 3,479,138.
Schnabel, Wilhelm J.; Kober, Ehrenfried H.; and Gardner, Srong K., 3,438,750.
Schnabel, Wilhelm J.; and Larchar, Trescott B., Sr., 3,445,486.
Silva, Joseph W.; and Staba, Edward A., 3,463,086.
Silva, Joseph W., 3,469,411.
Smith, Eric, 3,480,673.
Staba, Edward A., 3,420,137.
Staba, Edward A., 3,423,259.
Thorne-Thomsen, Thomas, 3,439,943.
Valyi, Emery I., 3,421,577.
Valyi, Emery I., 3,428,126.
Valyi, Emery I., 3,452,783.
Valyi, Emery I., 3,460,612.
Vartanian, Edwin S.; and Jarvis, Jay P., 3,432,955.
Vebra, Joseph; Wojtowicz, John A.; and Urs, Venkataramaraj S., 3,463,823.
Wilkaitis, Norman J.; and La Brot, Adrian G., 3,479,983.
Winter, Joseph, 3,462,827.
Winter, Joseph, 3,462,828.
Winter, Joseph, 3,463,620.
Winter, Joseph; and Goldman, Alan J., 3,481,020.
Wojtowicz, John A.; and Zaslowsky, Joel A., 3,463,789.
Wolfe, Wade, Jr., 3,450,193.
Yale, Harry Louis; Sowinski, Francis Alexander; and Bernstein, Jack, 3,454,598.

Olin Mathieson Corporation: *See*—
Fein, Marvin M.; Paustian, John E.; and Lichstein, Bernard M., 3,483,258.

Olinger, Eugene C.; Bradley, William R.; and Smith, John H., to Continental Oil Company. Process for chlorinating hydrocarbons. 3,431,314, 3-4-69, Cl. 260-660.

Olink, Jan-Theodor, to Boussois-Soushon-Neuvesel. Process and apparatus for the production of flat glass. 3,463,625, 8-26-69, Cl. 65-90.

Olinkraft, Inc.: *See*—
Graser, Earl J.; and Sherman, Earle C., 3,451,543.
Graser, Earl J., 3,478,951.
Harmes, Oren Burton; and Moseley, Karl Wilfred, 3,483,666.
Hudson, Doyle R., 3,458,969.

Oliphant, Keith Meridith, to Research Laboratories of Australia Limited. Electrophotographic toners. 3,444,083, 5-13-69, Cl. 252-62.1

Olitsky, Vladimir Samsonovich; Mirkin, Anatoly Zakharovich; and Shirokov, Nikolai Borisovich. Device for handling lengthy loads, mainly insulation-coated pipes, transported by truck trains. 3,468,439, 9-23-69, Cl. 214-77.

Olitzky, Shmuel. Collapsible chair. 3,485,526, 12-23-69, Cl. 297-31.

Oliva, Edward C.: *See*—
Krasny, John F.; and Oliva, Edward C.,3,480,383.

Oliva, Klaus; Noack, Christian; and Lange, Gotthard, to VEB Kombinat Fortschritt. Variable-speed drive for agricultural implement. 3,430,505, 3-4-69, Cl. 74-230.17

Oliver, Alton D.; and Carter, Gerald E., to ACF Industries, Incorporated. Adjustable relief valve. 3,463,185, 8-26-69, Cl. 137-516.29

Oliver, Bernard M., to Hewlett-Packard Company. Horizontal deflection circuit with monitor winding inductively coupled to yoke. 3,434,002, 3-18-69, Cl. 315-27.

Oliver, Burton L.: *See*—
Houck, William E.; Maerz, Michael O.; Oliver, Burton L.; and Silsbee, David L.,3,473,114.

Oliver, Burton L., to International Business Machines Corporation. Method and apparatus for testing magnetostrictive delay lines by checking for signal coincidence between signal pulses and reference pulses in different phase positions of the reference pulses. 3,473,115, 10-14-69, Cl. 324-68.

Oliver Corporation: *See*—
Quickstad, La Ron O., 3,470,965.

Oliver, Cyril Victor, to British Aircraft Corporation Limited. Preparation of printed circuits. 3,460,448, 8-12-69, Cl. 95-1.

Oliver, Donald S., to Itek Corporation. Electro-optical system. 3,483,515, 12-9-69, Cl. 340-165.

Oliver, Gene Leech, to Eastman Kodak Company. Merocyanine dyes as filter dyes and spectral sensitizers. 3,486,897, 12-30-69, Cl. 96-84.

Oliver, George D., to Monsanto Company. Coil decoking in steam cracking by intermittent switch to ethane feed. 3,433,731, 3-18-69, Cl. 208-48.

Oliver, Henry N., and Morris, Carl H.: *See*—
Oliver, Henry N.; and Morris, Carl H., 3,425,219.

Oliver, Henry N.; and Morris, Carl H., 50% to Oliver, Henry N., and Morris, Carl H. Air-hydraulic press. 3,425,219, 2-4-69, Cl. 60-52.

Oliver, Hugh: *See*—
Wehinger, Egon F., 3,485,039.

Oliver Instrument Company: *See*—
Leathley, Burton R., 3,481,082.

Oliver, John. Display means for cartons, folders and the like. 3,440,747, 4-29-69, Cl. 40-126.

Oliver, Joseph E., 10% to Gendron, Lester J. Jacking and support mechanism for vertically extensible camper. 3,462,123, 8-19-69, Cl. 254-45.

Oliver Machinery Company: *See*—
Solomon, William H.; Van Weelde, Donald J.; and Forward, Carrel M., 3,451,874.

Oliver, Murray E. Golf practice mat with pivotable bristle assemblies. 3,451,683, 6-24-69, Cl. 273-195.

Oliver, Richard M., to Combustion Engineering, Inc. Expansion of tubes into tube sheet by use of explosives. 3,426,681, 2-11-69, Cl. 102-24.

Oliver, Robert B.: *See*—
Lucas, Kenneth A.; and Oliver, Robert B.,3,437,923.

Oliver, Robert E. Audio amplifier producing high fidelity sound reproduction. 3,437,756, 4-8-69, Cl. 179-1.

Oliver Tire & Rubber Company: *See*—
Burger, Edwin M., 3,455,194.
Burger, Edwin M., 3,485,908.

Oliver, Trevor Exelby: *See*—
Steghart, Fritz Ludwig Felix; Cross, Gerald; Kershaw, Peter Leslie; Oliver, Trevor Exelby; and Farrant, Leonard George,3,424,377.

Oliver, Ward H.; and Stump, Eugene C., Jr., to Calgon Corporation, mesne. Nitroso rubber copolymers and terpolymers of fluorinated olefins, nitroso esters and halo nitroso alkanes. 3,472,822, 10-14-69, Cl. 260-80.73

Oliver, William F.: *See*—
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J.,3,444,105.
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J.,3,467,646.

Oliver, Winfred Allen, Jr., to Ald, Inc. Immersion cooking apparatus. 3,455,232, 7-15-69, Cl. 99-407.

Oliveto, Eugene Paul: *See*—
Krubiner, Alan Martin; and Oliveto, Eugene Paul,3,459,772.
Rausser, Richard; and Oliveto, Eugene P.,3,461,117.

Olivetti, Ing. C., & C., S.p.A.: *See*—
Capellaro, Natale; and Bellis, Carlo, 3,450,042.
Costa, Armando; and Cerutti, Giovanni, 3,435,692.
Francisco, Bernardino, 3,444,979.
Francisco, Bernardino, 3,450,245.
Gassino, Teresio, 3,423,018.
Gassino, Teresio; and Giolitti, Nicolo, 3,448,844.
Gassino, Teresio, 3,451,616.
Panken, Irving, 3,476,559.
Trombetta, Carlo, 3,463,584.
See also: Ing. C. Olivetti & C., S.p.A.

Olivetti Underwood Corporation: *See*—
Gallant, Reginald R., 3,464,533.
Gallant, Reginald R.; and Loftus, Robert M., 3,476,312.
Richlin, Milton, 3,441,425.

Olivetti-General Electric S.p.A.: *See*—
Canepa, Michele, 3,434,129.
Forlani, Franco; and Minnaja, Nicola, 3,483,445.

Olivier, James Peter; and Hickin, George K., to Freeport Sulphur Company. Apparatus and process for determining particle size by X-ray absorption analysis. 3,449,567, 6-10-69, Cl. 250-43.5

Olivier, James P.: *See*—
Morris, Horton H.; and Olivier, James P.,3,439,801.

Olivier, James P., to Freeport Sulphur Company. Process for treating minerals. 3,432,030, 3-11-69, Cl. 209-5.
Sennett, Paul; and Olivier, James P.,3,446,348.

Olivier, Jean Joseph Pierre, to Compagnie Francaise de Raffinage. Method and apparatus for the regulation of gas heating systems. 3,485,606, 12-23-69, Cl. 48-190.

Olivier, Kenneth L., to Union Oil Company of California. Oxidative carbonylation and catalyst recovery. 3,420,873, 1-7-69, Cl. 260-497.

Olivier, Kenneth L., to Union Oil Company of California. Vinyl acetate synthesis. 3,444,189, 5-13-69, Cl. 260-497.

Olivier, Kenneth L.; and Schaeffer, William D., to Union Oil Company of California. Process for the oxidation of olefins with a platinum group metal catalyst. 3,461,157, 8-12-69, Cl. 260-497.

Olivier, Wilhelm: *See*—
Kirchner Wilhelm; and Olivier, Wilhelm,3,452,578.

Olivieri, Attilio: *See*—
Meazzi, Remo; Caldironi, Franco; and Olivieri, Attilio,3,464,305.

Olivotto, Vanfrido. Charge conveying device for high temperature industrial ovens. 3,464,681, 9-2-69, Cl. 263-6.

Ollearo, Giorgio, to Ing. C., Olivetti & C., S.p.A. Automatic tool changing device for a machine tool. 3,473,419, 10-21-69, Cl. 77-25.
Olleveant, Allan William: *See—*
Dransfield, Philip Brook; and Olleveant, Allan William,3,467,664.
Ollier, Jacques Honore Gaspard; Grosshans, Georges Frederic; and Masson, Robert Gaston. Manufacture of yogurt and similar filled containers. 3,430,411, 3-4-69, Cl. 53-30.
Olliff, Martin T., Jr.; Hecht, Alfred H.; Brown, Robert H.; and Brooks, William B., to Thiokol Chemical Corporation. Method and apparatus for installing rigid aft insulation in rocket motor cases. 3,421,965, 1-14-69, Cl. 156-423.
Olliff, Martin T., Jr.; Lloyd, Julius E.; and Williams, Charles F., to Thiokol Chemical Corporation. Displacement apparatus for installing rigid or semi-rigid insulation in the head end of a rocket motor case. 3,436,295, 4-1-69, Cl. 156-423.
Olliff, Martin T., Jr.; and Puckett, William R., to Thiokol Chemical Corporation. Joint for pressure vessels. 3,455,579, 7-15-69, Cl. 285-39.
Olliff, Martin T., Jr.; Williams, Charles F.; Hagler, Travis J.; and Puckett, William R., to Thiokol Chemical Corporation. Integral motor case and nozzle for solid propellant rocket motors. 3,446,022, 5-27-69, Cl. 60-256.
Ollinger, James C., to Armstrong Cork Company. Ceramic acoustical water-laid sheet. 3,470,062, 9-30-69, Cl. 162-152.
Ollis, Raymond, Jr.: *See—*
Gowen, Edward F., Jr.; Ollis, Raymond, Jr.; and Walker, Richard A.,3,433,117.
Ollis, Raymond, Jr., to Standard Pressed Steel Co. Fastener unit. 3,456,706, 7-22-69, Cl. 151-417.1
Ollis, Raymond, Jr.; and Whiteside, Roger B., to Standard Pressed Steel Co. Fastener unit. 3,467,417, 9-16-69, Cl. 287-189.36
Olliviero, Bernard Jean, to La Telemecanique Electrique. Lateral-actuation device, more particularly adaptable to electric switches or the like. 3,459,059, 8-5-69, Cl. 74-110.
Ollman, Lawrence H. Piano assembly. 3,476,005, 11-4-69, Cl. 84-236.
Olmstead, John A.: *See—*
Scott, Joseph H., Jr.; and Olmstead, John A.,3,449,647.
Olmstead, John; Jacobus, Lewis A., Jr.; and Athanassiadis, Eleftherios G., to Radio Corporation of America. Mos tetrode. 3,427,514, 2-11-69, Cl. 317-235.
Olmsted, Lester E.: *See—*
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William,3,453,128.
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William,3,453,129.
Olmsted, Peter B., to Caterpillar Tractor Company. Hydraulic booster mechanism. 3,434,391, 3-25-69, Cl. 91-216.
Olmsted, Peter B. Valve. 3,435,851, 4-1-69, Cl. 137-625.48
Olnick, Jay E.: *See—*
Castiello, Ignacio Aranguren; Sierra, Octavia Vasquez; and Olnick, Jay E.,3,446,663.
Castiello, Ignacio Aranguren; Sierra, Octavio Vasquez; and Olnick, Jay E.,3,446,665.
Olofsson Corporation, The: *See—*
Garnett, Donald W., 3,435,995.
Garnett, Donald W., 3,477,530.
Olofsson, Erik Herbert; and Arnrup, Borje Sixten, to Billman- Regulator AB. Method and arrangement for periodically connecting and disconnecting a heating unit. 3,475,593, 10-28-69, Cl. 219-501.
Olofsson Sigfrid M.: *See—*
Wickenberg, Chester H.; and Olofsson Sigfrid M.,3,485,180.
O'Loughlin, Bernard T.; and Tindell, William A., Jr., to Halliburton Company. Portable sand-fluid blender. 3,432,151, 3-11-69, Cl. 259-148.
O'Loughlin, Francis A.; and Logan, Maurus C., to Thomas & Betts Corporation. Compression tool for electrical connectors. 3,427,852, 2-18-69, Cl. 72-410.
Olree, Adrian R.: *See—*
Levit, Edward C.; and Olree, Adrian R.,3,482,708.
Olree, Adrian R., to Steelcase, Inc. Drawer interlocking means for cabinets and the like. 3,454,320, 7-8-69, Cl. 312-217.
Olsen, Alf J., to Teletype Corporation. Photoelectric device for detecting tape in two positions including mirror with hole in it. 3,473,033, 10-14-69, Cl. 250-219.
Olsen, Charles R. Actuator. 3,483,695, 12-16-69, Cl. 60-26.1
Olsen Construction Co.: *See—*
Preblich, Joseph G., 3,442,482.
Olsen, Dick M., to Marquette Corporation. Automobile diagnostic center. 3,451,261, 6-24-69, Cl. 73-117.2
Olsen, Donald B.: *See—*
Reynolds, Harold C.; and Olsen, Donald B.,3,477,954.
Olsen, Edward W., to Freeport Sulphur Company. Filters. 3,474,911, 10-28-69, Cl. 210-318.
Olsen, Edwin J., to Carstens Manufacturing Company. Hospital record chart holder apparatus. 3,472,387, 10-14-69, Cl. 211-45.
Olsen, Everett O., to Foxboro Company, The. Capacitive memory storage device employing magnetizable material as a dielectric. 3,434,120, 3-18-69, Cl. 340-173.
Olsen, Everett O.: *See—*
Richardson, David A.; and Olsen, Everett O.,3,467,874.
Olsen, George Franklin; and McLeod, Donald L., to Kaiser Aluminum & Chemical Corporation. Rotary kiln linings. 3,445,099, 5-20-69, Cl. 263-33.
Olsen, George P., to Standard Oil Company (Indiana). Process of purifying benzene carboxylic acids. 3,456,001, 7-15-69, Cl. 260-525.
Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H., to Standard Oil Company (Indiana). Terephthalic acid recovery. 3,452,088, 6-24-69, Cl. 260-525.
Olsen, John A.: *See—*
Goldstone, Edward G.; Neumann, Hans K.; and Olsen, John A.,3,446,685.
Olsen, John H. Drainage device. 3,440,823, 4-29-69, Cl. 61-11.
Olsen, John Sylvester, du Pont de Nemours, E. I., and Company. Yarn-lubricating composition. 3,428,560, 2-18-69, Cl. 252-8.7
Olsen, Jon H.: *See—*
Randar, Magnus; and Olsen, Jon H.,3,473,219.
Olsen, Karl M.; Smith, David H.; Stockbridge, Christopher D. G.; and Tolman, Edward M., to Bell Telephone Laboratories, Incorporated. Magnetic memory element comprising Ni-Fe and Zr and composition comprising Ni-Fe-Zr. 3,425,043, 1-28-69, Cl. 340-174.
Olsen, La Verne R. Securing means for doors and the like. 3,431,001, 3-4-69, Cl. 292-218.
Olsen Magnetics, Inc.: *See—*
Olsen, Willy, 3,469,221.
Olsen, Norman G.: *See—*
Lenzen, Leo W.; Olsen, Norman G.; and Wenda, Raymond N.,3,480,120.
Olsen, Olaf M.: *See—*
Saunders, Charles E.; and Olsen, Olaf M.,3,475,069.
Olsen, Peter R., to Stecher-Traung-Schmidt Corporation, mesne. Compartment box. 3,429,499, 2-25-69, Cl. 229-28.
Olsen, Robert E.: *See—*
Hamel, Edward E.; and Olsen, Robert E.,3,428,667.
Olsen, William A., Jr.; and Pinkel, Isadore I., to United States of America, National Aeronautics and Space Administration. Reduced gravity liquid configuration simulator. 3,429,058, 2-25-69, Cl. 35-49.
Olsen, Willi; Ochla, Siegfried; and Lieske, Manfred, to Siemens Aktiengesellschaft. Electric switch actuated by a crank-flexible strand device. 3,440,381, 4-22-69, Cl. 200-163.
Olsen, Willy, to Olsen Magnetics, Inc. Transformer core. 3,469,221, 9-23-69, Cl. 336-212.
Olshvanger, Boris Akibovich: *See—*
Fedotov, Igor Leonidovich; Yanushkovaky, Vladimr Alexandrovich; Taxar, Iegoshua Mikhailovich; and Olshvanger, Boris Akibovich,3,452,202.
Olson, Albert Kenneth, to Minnesota Mining and Manufacturing Company. Electrical spark perforator for moving web. 3,424,895, 1-28-69, Cl. 219-384.
Olson, Alvin F. Tractor mower. 3,442,526, 5-6-69, Cl. 280-43.13
Olson, Arthur R.: *See—*
Paulig, Konrad W.; and Olson, Arthur R.,3,476,638.
Olson, Arthur W.: *See—*
Deigaard, Frank N.; and Olson, Arthur W.,3,433,005.
Olson, Arvid L.; Oredson, Henry N.; and Torok, Ernest J., to Sperry Rand Corporation. Readout of a planar, apertured thin-ferromagnetic- film by the deflection of electrons passing therethrough. 3,434,124, 3-18-69, Cl. 340-174.
Olson, Axel B. Dual purpose hot water heating boilers. 3,437,078, 4-8-69, Cl. 122-37.
Olson, Byron W. Wire termination electrical junction and contact retention system. 3,431,536, 3-4-69, Cl. 339-74.
Olson, Cleo C.; and Blevins, John B., to Halliburton Company. Pressure regulating valve assembly between open hole packers and method. 3,459,264, 8-5-69, Cl. 166-250.
Olson, Conrad, to United-Carr Incorporated, mesne. One-piece socket and pronged ring. 3,435,792, 4-1-69, Cl. 113-119.
Olson, Dale G.: *See—*
Anderson, Jesse I.; and Olson, Dale G.,3,431,413.
Olson, Danford H., to Marathon Oil Company. Preparation of glycols and glycol esters by oxidation of olefins with selenium dioxide. 3,427,348, 2-11-69, Cl. 260-497.
Olson, Danford H.; and Bailey, George M., to Marathon Oil Company. Process for the hydrohalogenation of organic compounds. 3,420,902, 1-7-69, Cl. 260-663.
Olson, David W., to Abbott Laboratories. Vacuum indicating two-part tamperproof closure and combination. 3,443,711, 5-13-69, Cl. 215-7.
Olson, Davis A., to Stackpole Carbon Company. Multiple push button switch. 3,457,377, 7-22-69, Cl. 200-5.
Olson, Edgar C., to National Dairy Products Corporation. Article stacker. 3,458,059, 7-29-69, Cl. 214-6.

Olson, Edgar C.: *See—*
Miller, Roland E.; Wayne, Clyde D.; Olson, Edgar C.; and Piatek, Robert J.,3,479,024.

Olson, Edgar T., to Kingsford Company. Impact pulverization plus additives in the production of activated carbon from coal. 3,483,134, 12-9-69, Cl. 252-421.

Olson, Edward G., to United States of America, Navy. Condition responsive D.C. power supply switch. 3,473,055, 10-14-69, Cl. 307-305.

Olson, Edwin G.; Wills, Thomas M.; and Yunan, Malak E., to Du Pont de Nemours, E. I., and Company. Process and apparatus for forming a foam fiber batt. 3,474,500, 10-28-69, Cl. 19-66.

Olson, Edwin N. Stator winding device. 3,450,357, 6-17-69, Cl. 242-1.1

Olson, Ellis W., to Introl Corporation, mesne. Fence charger. 3,422,280, 1-14-69, Cl. 307-132.

Olson, Elwyn H., to Honeywell Inc. Electric lead terminal. 3,426,316, 2-4-69, Cl. 339-151.

Olson, Emil H., to Anaconda Wire and Cable Company. Method of making electrically insulated copper strip conductors. 3,455,021, 7-15-69, Cl. 29-605.

Olson, Emil H.; Ulmer, William W.; and Christensen, Richard L., to Anaconda Wire and Cable Company. Insulated electrical conductors and the method for producing the same. 3,445,282, 5-20-69, Cl. 117-232.

Olson, Floyd C.; and Podebradsky, Everett V., to Mayer, Oscar, & Co., Inc. Preparing a stacked sliced food product. 3,453,120, 7-1-69, Cl. 99-169.

Olson, Floyd C.; and Trautman, Jack C., to Mayer, Oscar & Co., Inc. Method of providing a dietetic meat product. 3,447,932, 6-3-69, Cl. 99-108.

Olson, Frank Wesley, Jr.: *See—*
Mees, Arthur Allan; and Olson, Frank Wesley, Jr.,3,476,489.

Olson, Gaylord G.; and Dorfman, Steven D., to Hughes Aircraft Company. Ranging system. 3,453,047, 7-1-69, Cl. 356-4.

Olson, George E.; and Mc Culla, Walter J., to Caterpillar Tractor Company. Cylinder liner support with improved cooling. 3,481,316, 12-2-69, Cl. 123-41.84

Olson, Gust A. Collapsible file folder. 3,439,861, 4-22-69, Cl. 229-16.

Olson, Harold G.; and Johnson, Leonard W., to Bailey Company, Inc., The. Universal glass framing member. 3,456,410, 7-22-69, Cl. 52-309.

Olson, Harry W., Sr.: *See—*
Cherry, Walter L.; Long, Eric L.; and Olson, Harry W., Sr.,3,423,705.

Olson, Henning H.: *See—*
Beekes, Hugh A.; Herrmann, Thomas R.; Lipp, Melbourne A.; Olson, Henning H.; and Schleicher, Allen K.,3,466,845.

Olson, Jack Edward, to Trueline Instruments, Inc. Electrostatic power amplifier tubes having an improved positioning of the control electrode. 3,445,711, 5-20-69, Cl. 313-238.

Olson, Jackie L.: *See—*
Jones, Vercoe C.; and Olson, Jackie L.,3,427,992.

Olson, Jerome F., to Hoerner-Waldorf Corporation. Combination bag and box. 3,426,955, 2-11-69, Cl. 229-17.

Olson, John C.: *See—*
Strnat, Karl J.; Hoffer, Gary I.; Ostertag, Werner; and Olson, John C.,3,424,578.

Olson, John D., to Friden, Inc. Manufacture of electric circuit modules. 3,475,284, 10-28-69, Cl. 204-15.

Olson, John Robert. Automotive bumper providing articles storage space. 3,471,070, 10-7-69, Cl. 224-42.04

Olson, Kenneth N., to Kollsman Instrument Corporation. Synchro generator having two stationary windings coupled by skewed rotor. 3,453,466, 7-1-69, Cl. 310-49.

Olson, Lloyd J.: *See—*
Kemp, Jacob D.; Langlois, Gordon E.; and Olson, Lloyd J.,3,434,963.
Langlois, Gordon E.; and Olson, Lloyd J.,3,459,658.

Olson, Marvin A. Turfing tool. 3,468,381, 9-23-69, Cl. 172-19.

Olson, Ole N. Primer pocket cleaner for use in reloading firearm cartridges. 3,429,218, 2-25-69, Cl. 86-24.

Olson, Paul E.: *See—*
Brooks, Ralph C.; and Olson, Paul E.,3,443,587.

Olson, Paul E., to Westinghouse Air Brake Company. Cushion seal device for power cylinders. 3,440,930, 4-29-69, Cl. 91-396.

Olson, Paul E., to Westinghouse Air Brake Company. Panel block assembly. 3,486,519, 12-30-69, Cl. 137-608.

Olson, Per-Erik; Lunden, Nils; and Ribbing, Sigwid, to Swedish Rail System AB-S.R.S. Method of laying railroad tracks on concrete bases. 3,442,222, 5-6-69, Cl. 104-3.

Olson, Per-Erik: *See—*
Borup, Lennart; and Olson, Per-Erik,3,484,043.

Olson, Percy D. Collapsible keyboard teaching aid employing earphone sets and plural keyboards. 3,478,159, 11-11-69, Cl. 84-1.17

Olson, Peter A., to Corning Glass Works. Glass article having a birefringence pattern and method of production. 3,423,196, 1-21-69, Cl. 65-30.

Olson, Raymond August: *See—*
Murrin, Julian Michael; and Olson, Raymond August,3,453,274.

Olson, Raymond G.; and Benno, Edward L., to Standard International Corporation. Stock feed mechanism. 3,468,464, 9-23-69, Cl. 226-141.

Olson, Raymond M.: *See—*
Bukkila, Charles J.; Eyberg, Donald T.; Lemke, John S.; and Olson, Raymond M.,3,469,560.

Olson, Richard L., to Dike-O-Seal, Incorporated. Method of preparing sand molds. 3,429,360, 2-25-69, Cl. 164-37.

Olson, Richard L., to Dike-O-Seal, Incorporated. Means for providing a choke for in-tube retention of sand in core box or like blow tubes. 3,460,607, 8-12-69, Cl. 164-200.

Olson, Richard S.: *See—*
Berry, Thomas L., Jr.; Mock, Vernon A.; and Olson, Richard S.,3,423,860.

Olson, Robert E., to Packard Instrument Company, Inc. Sample centering device for radiation detecting and measuring apparatus. 3,426,919, 2-11-69, Cl. 214-1.

Olson, Robert E.: *See—*
Preli, Francis R.; and Olson, Robert E.,3,444,873.
Ziermann, Hermann; and Olson, Robert E.,3,435,822.

Olson, Robert James; Ellis, George L.; and Huval, Malcolm, said Huval, Malcolm, assor to Chevron Research Company and said Olson, Robert J., and Ellis, George L. assors to Johnson & Johnson. Method for simultaneously coalescing, filtering and removing oil traces from liquids and media for accomplishing the same. 3,450,632, 6-17-69, Cl. 210-23.

Olson, Robert L.: *See—*
Schoenecker, Thomas J.; and Olson, Robert L.,3,424,100.

Olson, Robert T. Shoring apparatus. 3,430,911, 3-4-69, Cl. 248-354.

Olson, Setha G., to Hercules, Incorporated. Crystalline polymers of alpha, omega- diolefins. 3,435,020, 3-25-69, Cl. 260-94.2

Olson, Thomas C.: *See—*
Rouse, Stewart A.; and Olson, Thomas C.,3,421,646.

Olson, Thor F.: *See—*
Virva, John; and Olson, Thor F.,3,443,660.

Olson, Tore Bertil: *See—*
Holmstrom, Sven Carl-Johan; Nilsson, Per-Erik; and Olson, Tore Bertil,3,443,774.

Olson, Walter J.: *See—*
Scofield, William; and Olson, Walter J.,3,448,808.

Olson, Wayne A.Aviator's aeroboard microphone rest. 3,463,438, 8-26-69, Cl. 248-444.

Olson, Willard E.; and Iversen, Einar C. Overshoe for spiked shoes. 3,486,248, 12-30-69, Cl. 36-7.3

Olson, William C., to Thunder Enterprises, Inc. Sewer pipe and method of fabrication. 3,470,918, 10-7-69, Cl. 138-165.

Olson, William P.: *See—*
Bullwinkel, Bernhard A.; Epstein Herbert R.; and Olson, William P.,3,441,941.

Olssen, Tor H.: *See—*
Jones, Robert Haldon; Nylin, Lennard Edward; and Olssen, Tor H.,3,452,369.

Olsson, Carl Olof. DC-stabilizer with pre-regulator. 3,448,369, 6-3-69, Cl. 321-18.

Olsson, Erik, AG: *See—*
Weiss, Jean-Pierre, 3,456,714.

Olsson, Erik Allan. Roll type continuous casting apparatus. 3,447,590, 6-3-69, Cl. 164-277.

Olsson, Erik Allan. Nozzle for supplying melt to a mould in a continuous casting machine. 3,460,609, 8-12-69, Cl. 164-281.

Olsson, Johan Bertil, to Associated Cargo Gear AB. Watertight vertical doors. 3,440,762, 4-29-69, Cl. 49-209.

Olsson, Johan Bertil, to Associated Cargo Gear AB. Loading ramp. 3,462,786, 8-26-69, Cl. 14-71.

Olsson, Johan Bertil, to Associated Cargo Gear AB. Cover for a part vertical, part horizontal opening. 3,467,164, 9-16-69, Cl. 160-188.

Olsson, Jons Kurt Alvar, to Telefonaktiebolaget L M Ericsson. Arrangement for indicating one or several conduc- tion currents. 3,458,712, 7-29-69, Cl. 307-88.

Olsson, Karl Gustav, to Internationella Siporex Aktiebolaget. Monolithic acoustic structural building element. 3,433,322, 3-18-69, Cl. 181-33.

Olsson, Karl-Erik: *See—*
Boksjo, Ingvar; Olsson, Karl-Erik; and Svedberg, Per,3,487,261.

Olsson, Kjell: *See—*
Holmer, Charles B.; and Olsson, Kjell,3,448,854.

Olsson, Nils O., to International Harvester Company. Drawbar construction for furrow opener. 3,439,749, 4-22-69, Cl. 172-572.

Olsson, Raymond G.; and Williams, Earl C., to General Electric Company. Contactless lifter. 3,438,668, 4-15-69, Cl. 294-64.

Olsson, Roy Erik Tore: *See—*
Polhall, Karl Olof Adolf; Hermansson, Rolf Torsten; and Olsson, Roy Erik Tore,3,443,400.

Olsson, Sven M. J.: *See—*
Carter, Frederick H. N.; Martinson, William V.; and Olsson, Sven M. J.,3,429,973.

Olsson, Tore Bertil Reinhold; and Berggren, Hans Gunnar, to Aktiebolaget Bofors. Circuit system for enlarging a selected part of

the image on the screen of a cathode ray tube. 3,471,743, 10-7-69, Cl. 315-24.
Olstowski, Franciszek, to Dow Chemical Company, The. Process for preparing resilient graphite structures. 3,423,496, 1-21-69, Cl. 264-118.
Olstowski, Franciszek, to Dow Chemical Company, The. Metal coated vermicular expanded graphite and polymer composition containing same. 3,440,181, 4-22-69, Cl. 252-503.
Olstowski, Franciszek; and Guebert, Kenneth W., to Dow Chemical Company, The. Method of preparation of compressed vermicular graphite. 3,448,181, 6-3-69, Cl. 264-120.
Olstowski, Franciszek; and Mezoff, John G., to Dow Chemical Company, The. Process for producing structures containing shaped voids. 3,431,970, 3-11-69, Cl. 164-97.
Olstowski, Franciszek; and Osborn, Oliver, to Dow Chemical Company, The. Method for preparing compressed vermicular graphite structures. 3,440,311, 4-22-69, Cl. 264-115.
Olstowski, Franciszek; and Watson, John D., Sr., to Dow Chemical Company, The. Method for producing carbon-bonded graphite structures. 3,444,276, 5-13-69, Cl. 264-29.
Olszewski, Mariusz: *See—*
Leskiewicz, Henryk J.; Jacewicz, Jan; and Olszewski, Mariusz,3,463,442.
Olszewski, William F.: *See—*
Myers, Herbert; Olszewski, William F.; and Butcosk, Richard A.,3,429,814.
Oltendorf, Norman, to Microdyne, Inc. Variable dynamic direct-current brake circuit for A.C. motor. 3,475,669, 10-28-69, Cl. 318-212.
Oltendorf, Norman, to Microdyne, Inc. Constant speed and constant torque controllers for shunt-wound D.C. motors. 3,475,672, 10-28-69, Cl. 318-308.
Oltermann, John J.; Woolslayer, Joseph R.; and Jenkins, Cecil, to Moore, Lee C., Corporation. Reclining king-post crane and method of erecting it. 3,435,571, 4-1-69, Cl. 52-119.
Oltman, Henry G., Jr., to TRW Inc. Broadband exciter for electroacoustic and magnetoacoustic transducers. 3,443,131, 5-6-69, Cl. 310-8.1
Oltman, Henry G., Jr.; and Kaufman, Irving, to TRW Inc. Ultrasonic transducer. 3,453,456, 7-1-69, Cl. 310-8.2
Oltra, Claude H.; and De Luca, John, to Advance Process Supply Co. Vacuum frame for silk screen stencils. 3,463,587, 8-26-69, Cl. 355-93.
Olund, Sven A., to Chevron Research Company. Liquid dielectric blends. 3,436,349, 4-1-69, Cl. 252-63.
Olund, Sven A., to Chevron Research Company. Thiophanedimethyl disulfide gas odorant blends. 3,475,146, 10-28-69, Cl. 48-196.
Olvera, Henry R. Boat launching dolly. 3,462,781, 8-26-69, Cl. 9-1.
Olympia Werke AG: *See—*
Bresslein, Helmut; and Korte, Klaus, 3,474,957.
Goosmann, Theo, 3,485,112.
Hesse, Alfred; and Keiter, Alfred, 3,427,963.
Hesse, Alfred; Focken, Heinz; and Bindel, Wolfgang, 3,469,776.
Hesse, Alfred; and Bindel, Wolfgang, 3,480,127.
Heymann, Hans, 3,478,332.
Klingner, Wolfgang; and Kittel, Arthur, 3,428,159.
Schweizer, Horst, 3,441,119.
Schweizer, Horst, 3,455,429.
Schweizer, Horst, 3,455,430.
Trab, Abdulrahim Cheikh, 3,455,237.
Trab, Abdulrahim Cheikh; and Ricke, Heinz, 3,461,797.
Olympic Plastics Company, Inc.: *See—*
Siteman, David C., 3,445,559.
Olympic Screw & Rivet Corporation: *See—*
Kolec, Robert F., 3,445,870.
Kolec, Robert F., 3,471,879.
Olympus Optical Co., Inc.: *See—*
Kosaka, Shinya; and Sasaguri, Kenzi, 3,447,056.
Maitani, Yoshihisa, 3,464,340.
Saito, Shoichi, 3,433,425.
Olzak, Henry F.: *See—*
Blanch, Charles H.; and Olzak, Henry F.,3,432,623.
Blanch, Charles H.; and Olzak, Henry F.,3,450,369.
O'Mahony, Gerard M. P. L., to Societe anonyme dite: Auxilec. Electro-mechanical system for driving at constant speed. 3,468,193, 9-23-69, Cl. 74-686.
O'Malley, Francis L., to International Business Machines Corporation. Semiconductor push-pull circuits utilizing minority carrier storage effects. 3,421,099, 1-7-69, Cl. 330-15.
O'Malley, Martin J. Electric power generating system. 3,426,214, 2-4-69, Cl. 290-55.
O'Malley, Robert M. Ellipse-forming compass. 3,461,564, 8-19-69, Cl. 33-30.
Oman, Olof: *See—*
Edman, Bjorn Rudolf; and Oman, Olof,3,486,330.
Omandam, Ismael C., Sr. Testing device for mechanical brakes. 3,464,263, 9-2-69, Cl. 73-132.
O'Mant, Derrick Michael, to Imperial Chemical Industries Limited. Phenyl and benzyl oxazole acetic acid compounds. 3,470,195, 9-30-69, Cl. 260-307.
O'Mara, Michel W.:*See—*
Reinhard, George C.; and O'Mara, Michel W.,3,441,428.
Omark Air Controls, Inc.: *See—*
Williams, Norman C.; and Booth, Dwight A., 3,435,841.
Williams, Norman C.; and Booth, Dwight A., 3,438,607.
Williams, Norman C.; and Booth, Dwight A., 3,472,343.
Omark Industries, Inc.: *See—*
Carter, Russell E., 3,457,969.
Hsu, Yung Shing; and Luciano, John P., Jr., 3,459,095.
Hsu, Yung Shing, 3,480,306.
Hsu, Yung Shing, 3,481,143.
Kelemen, Frank K., 3,445,619.
Lanz, Donald Duane; and Wilson, Roy Edward, 3,473,582.
Locati, Norman C., 3,457,970.
Neighorn, Roy G., 3,469,504.
Siiro, Nestor Peter, 3,461,928.
Silvon, Kay, 3,435,860.
Silvon, Kay, 3,438,286.
Silvon, Kay, 3,465,617.
Silvon, Kay, 3,469,610.
Tupper, Myron D., 3,465,795.
Van Gulik, Johan L., 3,479,481.
Omark-Winslow Aerospace Tool Co.: *See—*
Adams, Ralph D.; Borchert, Ernst, III; and Herzog, Robert P., 3,421,542.
Winslow, James Carl, 3,464,473.
O'Mary, Hollis W.:*See—*
David, Charles E.; and O'Mary, Hollis W.,3,431,501.
Omco Chemical Corporation: *See—*
Harbaugh, Theodore L., 3,425,809.
Omco, Inc.: *See—*
Nielsen, Anker J., Jr., 3,473,544.
O.M.C.S.A. Officine Mecniche Cigardi S.p.A.: *See—*
Giuiuzza, Pietro, 3,447,456.
Omega Louis Brandt & Frere S.A.: *See—*
Raval, Gaston, 3,421,312.
Thevenaz, Raymond, 3,469,391.
Vogt, Kurt, 3,432,016.
Omelchenko, Alexandr Alexandrovich: *See—*
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.
Omholt, Ray E. Floor and wall system. 3,439,464, 4-22-69, Cl. 52-479.
Omholt, Ray E. Flooring systems. 3,473,281, 10-21-69, Cl. 52-480.
Omi, Shinzo: *See—*
Gotohda, Masao; Kubota, Hiroshi; Nozaki, Fumio; and Omi, Shinzo,3,481,848.
Omietanski, George M.; and Williams, Thomas C., to Union Carbide Corporation. Preparation of organosilicon compounds from hydrosilicon compounds. 3,478,074, 11-11-69, Cl. 260-448.2
Omni-Card Systems, Inc.: *See—*
Peters, Alec, 3,430,557.
Peters, Alec, 3,457,661.
Omnium technique d'Etudes et Realisations (Oter):*See—*
Piron, Claude; and Van Leyden, Ragnar, 3,441,343.
Omniversal Design: *See—*
Kostick, John M., 3,477,188.
Omon, Gene L., to Case, J. I., Company. Fluid motor position control. 3,420,393, 1-7-69, Cl. 214-764.
Omon, Gene L., to Case, J. I., Company. Articulated vehicle. 3,433,502, 3-18-69, Cl. 280-400.
Omon, Gene L., to Case, J. I., Company. Height limiter. 3,435,974, 4-1-69, Cl. 214-762.
Omori, Fumitaka: *See—*
Kubo, Koichiro; Omori, Fumitaka; and Murai, Munehisa,3,463,528.
Omori, Koichiro. Collapsible paperboard carton. 3,446,414, 5-27-69, Cl. 229-28.
Omori, Masahiro: *See—*
Moose, Louis F.; and Omori, Masahiro,3,448,409.
Omori, Masahiro, to Bell Telephone Laboratories, Incorporated. Microwave power dividing network. 3,422,375, 1-14-69, Cl. 333-1.1
Omori, Shozo. Method for automatically packaging solid articles and apparatus therefor. 3,438,173, 4-15-69, Cl. 53-39.
Omoto, Seiji, assor. of 1/2 to Osawa, Hideo. Non-circular screws. 3,479,921, 11-25-69, Cl. 85-46.
Ompo, Takeshi: *See—*
Ushioda, Tsunezo; Nonaka, Katsuhiko; Yasueara, Minoru; Sato, Katsuya; Ompo, Takeshi; and Ishibashi, Hiroaki,3,476,647.

Omron Tateisi Electronics Co.(Tateisi Denki Kabushikikaisha): *See*—
Yamamoto, Mititaka; Mizuta, Yukio; Tanaka, Toshio; and Asada, Takeo, 3,443,675.
Omsteel Industries, Inc.: *See*—
Glesmann, Herbert C., 3,432,949.
Glesmann, Herbert C., 3,483,642.
Tempel, Gerhard W., 3,451,032.
Omura, Isao: *See*—
Harada, Tadamasa; and Omura, Isao,3,476,622.
Omura, Itiro, to Hitachi, Ltd. Microwave ion source. 3,476,968, 11-4-69, Cl. 313-63.
Omura, Masuo; Orita, Takao; and Kosaka, Masahiro, to Matsushita Electric Industrial Co., Ltd. Piano keyboard type electronic musical instrument having a bass pedal and single continuous keyboard. 3,461,217, 8-12-69, Cl. 84-1.08
Onak, Thomas P., to United States of America, Navy, mesne. C-Alkyl derivatives of $C_2B_5H_7$ and $C_2B_4H_8$ and preparation thereof from dihydrocarboranes. 3,420,889, 1-7-69, Cl. 260-606.5
Onda, Takanori, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Operation apparatus for change speed machine. 3,464,280, 9-2-69, Cl. 74-142.
Onda, Takanori: *See*—
Okamoto, Yoshinori; and Onda, Takanori,3,421,384.
Ondeck, Elmer J. Socket wrench. 3,433,108, 3-18-69, Cl. 81-121.
Ondera, Emil Vincent: *See*—
Siegele, Frederick Herman; Ondera, Emil Vincent; and Liberatore, Michael Angelo,3,434,970.
Ondis, Albert W., to Techni-Rite Industrial Park. Recorder utilizing luminescent trace. 3,441,948, 4-29-69, Cl. 346-76.
O'Neal, Billie D., to Esso Research and Engineering Company. Disposal of waste spent shale. 3,459,003, 8-5-69, Cl. 61-35.
O'Neal, Charles D., to Martin-Marietta Corporation. Stacked port fluidic amplifier. 3,468,331, 9-23-69, Cl. 137-81.5
O'Neal, George, Jr., to Wetronic Company. Timer. 3,452,283, 6-24-69, Cl. 328-75.
O'Neal, James Everett; Gunter, Josef Karl; and Gunter, Colie Walton, to Gunter & Cooke, Inc. Magnetic roll structure and method of forming same. 3,457,618, 7-29-69, Cl. 29-125.
O'Neal, Robert B. Combination emergency and signalling system. 3,482,209, 12-2-69, Cl. 340-67.
O'Neale, John D.:*See*—
Shaw, John S.; Dostel, John J.; White, Donald K.; Elste, Edwin S.; Kellogg, John F.; and O'Neale, John D.,3,460,827.
O'Neil, Eugene E., to Dunham-Bush, Inc. Refrigeration system with oil return means. 3,438,218, 4-15-69, Cl. 62-218.
O'Neil, Orval A., to Melroe Manufacturing Company. Grapple for tractor type vehicles. 3,439,818, 4-22-69, Cl. 214-147.
O'Neill, Charles E.:*See*—
Curlock, Walter; O'Neill, Charles E.; and Queneau, Paul E.,3,468,629.
Beutner, Heinz Paul; and O'Neill, Charles Edward,3,445,356.
O'Neill, Cormac Garrett, to Zenith Carburetter Company Limited, The. Fuel-air mixture intake systems for internal combustion engines. 3,460,814, 8-12-69, Cl. 261-44.
O'Neill, James D., to Ethyl Corporation. Stabilized organic material. 3,442,806, 5-6-69, Cl. 252-46.4
O'Neill, James D., to Ethyl Corporation. Exhaust emission reducing additive. 3,484,217, 12-16-69, Cl. 44-69.
O'Neill, John F., Jr., to Bell Telephone Laboratories, Incorporated. Automatic phase recovery in suppressed carrier quadrature modulated biternary communication systems. 3,423,529, 1-21-69, Cl. 178-68.
O'Neill, Raymond J., to De Laval Turbine, Inc. Reciprocating belt filter. 3,437,210, 4-8-69, Cl. 210-387.
O'Neill, Raymond J., to De Laval Turbine, Inc. Filter assembly having traveling sheet filter. 3,443,695, 5-13-69, Cl. 210-251.
O'Neill, Raymond J., to De Laval, Inc. Settling tank and method of operation thereof. 3,452,869, 7-1-69, Cl. 210-84.
O'Neill, Thomas F., Jr., to Bron Electronics, Incorporated. Improperly-sealed-container rejector. 3,469,689, 9-30-69, Cl. 209-80.
O'Neill, William C., III, to Bowles Engineering Corporation. Apparatus for measuring absolute pressure. 3,449,957, 6-17-69, Cl. 73-388.
O'Neill, William C., to United States of America, Navy, mesne. Fluid oscillator having variable volume feedback loops. 3,448,752, 6-10-69, Cl. 137-81.5
O'Neill, William G., Jr., to Chevron Research Company. Corrosion-resistant valve. 3,420,262, 1-7-69, Cl. 137-375.
O'Neill, William G., Jr., to Chevron Research Company. Y-pattern corrosion-resistant valve. 3,474,820, 10-28-69, Cl. 137-375.
O'Neill, William P.:*See*—
Torgerson, Raymond L.; Feld, David; and O'Neill, William P.,3,484,959.
Ong, Thean Chye: *See*—
Hawkins, Royal R.; and Ong, Thean Chye,3,454,853.
Onghena, Jozef: *See*—
Willems, Jozef; Hendricx, Edwin Frans; Thiers, Robrecht Julius; and Onghena, Jozef,3,443,951.
Ongkiehong, Leo; and Mast, Harm, to Shell Oil Company. Submersible detector for sensing underwater sounds. 3,432,000, 3-11-69, Cl. 181-0.5
Onifer, Michael John, Jr.; and Smith, Arthur Alfred, to American Cyanamid Company. Pipe fittings having an inner thermoplastic surface and an outer thermoset surface. 3,468,346, 9-23-69, Cl. 138-109.
Onions, John H. Laminated golf clubs. 3,455,558, 7-15-69, Cl. 273-169.
Onishi, Akira; Ishikawa, Takao; Sakata, Ryozo; Fujio, Ryota; and Tsuruta, Teiji, to Bridgestone Tire Company Limited. Epoxide polymers and process for preparing same. 3,467,624, 9-16-69, Cl. 260-63.
Onishi, Isao; Nishi, Akira; and Kakizawa, Tadao, to Yuki Gosei Kogyo Co., Ltd. Process for reacting amino acid and an active carbonyl sugar in a polyhydric alcohol. 3,478,015, 11-11-69, Cl. 260-211.
Onishi, Kumaichi: *See*—
Kobayashi, Shinzo; Onishi, Kumaichi; Kawakami, Akira; and Nakamura, Nobuhiro,3,482,049.
Onishi, Kumio: *See*—
Nishimura, Haruki; Kinugasa, Hiroaki; and Onishi, Kumio,3,468,889.
Onishi, Shigeru; and Yui, Saburo. Gas turbine. 3,469,396, 9-30-69, Cl. 60-39.35
Onjukka, Veikko F. Tongue and groove plank. 3,440,784, 4-29-69, Cl. 52-233.
Onna, Kenneth M., to Hawaiian Sugar Planters Association. Method and apparatus for determining the relative volume of crystalline solids in solution having at least one pair of electrodes with electrode spacing less than crystal separation distance. 3,462,683, 8-19-69, Cl. 324-65.
Onna, Kenneth M.: *See*—
Sloane, George E.; and Onna, Kenneth M.,3,468,607.
Ono, Hiromu: *See*—
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo,3,446,173.
Ohcho, Ken; Ono, Hiromu; and Kanefusa, Yoshikiyo,3,483,842.
Ono, Hiroshi. Drawbar collet adapter. 3,472,105, 10-14-69, Cl. 82-38.
Ono, Masabumi: *See*—
Tajima, Sakae; Baba, Nobuyoshi; Matsuyama, Shin; and Ono, Masabumi,3,445,349.
Ono, Masamichi: *See*—
Yamato, Junji; Tsukada, Keiichi; Kajiwara, Masaichi; and Ono, Masamichi,3,479,462.
Ono, Masayuki: *See*—
Okada, Shigetaka; and Ono, Masayuki,3,484,255.
Ono, Minoru; Hujita, Minoru; Momoi, Toshimitu; and Homma, Isamu, to Hitachi, Ltd. Semiconductor device having a sulfur treated silicon compound thereon and a method of making the same. 3,474,310, 10-21-69, Cl. 317-235.
Ono, Minoru; and Nitta, Takahisa, to Kabushiki Kaisha Hitachi Seisakusho. Method for producing semiconductor devices. 3,472,703, 10-14-69, Cl. 148-1.5
Ono Pharmaceutical Co., Ltd.: *See*—
Kano, Kunio, 3,475,276.
Ono, Shigeo; Kayano, Seiichi; and Negishi, Ryoichi, to Osahi Glass Co., Ltd. Apparatus for automatically cracking-off a glass sheet and taking-off cracked-off glass plates. 3,465,934, 9-9-69, Cl. 225-103.
Ono, Shigeo; and Shimomura, Jun, to Nippon Kogaku K.K. Exposure meter correction means for a single lens reflex camera having interchangeable lenses. 3,485,153, 12-23-69, Cl. 95-10.
Ono, Teizo. Anchor bolt. 3,472,111, 10-14-69, Cl. 85-74.
Ono, Terumichi; Mizutani, Shigeru; and Arai, Hazime, to Toyo Rayon Kabushiki Kaisha. Thick and thin yarn and process for the preparation thereof. 3,439,084, 4-15-69, Cl. 264-167.
Ono, Tsuneyoshi; Kamijo, Noriyuki; and Ootsuki, Chihiro, to Kabushiki Kaisha Suwa Seikosha. Date and day correcting device of a calendar timepiece. 3,470,687, 10-7-69, Cl. 58-58.
Ono, Yoshitsugu: *See*—
Kawahara, Masao; Ono, Yoshitsugu; and Sakuragi, Johji,3,427,613.
Onoda Cement Company, Limited: *See*—
Masuda, Senichi, 3,444,668.
Onodera, Norio; and Nishide, Motohiko, to Nitto Chemical Industry Co., Ltd., and Dainippon Ink Institute of Chemical Research. Monoisocyanates of cyclic phosphorus compounds. 3,456,040, 7-15-69, Cl. 260-936.
Onoe, Morio; and Warner, Arthur W., Jr., to Bell Telephone Laboratories, Incorporated. Oriented $LiTaO_3$ crystal and devices using same. 3,461,408, 8-12-69, Cl. 333-72.
Onsager, Olav-Torgeir, to Sentralinstitutt for Industriell Forskning. Process for production of olefines by dimerization, co-dimerization, polymerization and co-polymeri- zation of olefines. 3,442,971, 5-6-69, Cl. 260-683.15
Onsrud Machine Works, Inc.: *See*—
Onsrud, Rudolph F., 3,455,611.
Pankonin, Earl; and Ohlig, Karl P., 3,455,205.

Onsrud, Rudolph F., to Onsrud Machine Works, Inc. Right angular tangential bearing. 3,455,611, 7-15-69, Cl. 308-6.
Onstott, Edward I., to United States of America, Atomic Energy Commission. Electrolytic desalination of saline water by a differential redox method. 3,441,488, 4-29-69, Cl. 204-149.
Ontario Research Foundation: *See*—
Francis, Thomas; Jones, Maurice H.; and Thorne, Melanie P., 3,425,963.
Onufer, George Rohall, to R B & W Fabricated Metal Products, Inc. Fuel line filter. 3,460,682, 8-12-69, Cl. 210-448.
Onufer, George R. Balancer for rotating body. 3,462,198, 8-19-69, Cl. 301-5.
Onulak, Eugene W. Link chain and method of making same. 3,426,522, 2-11-69, Cl. 59-8.
Onyshkevych, Lubomyr S., to Radio Corporation of America. Magnetic memory employing stress wave. 3,434,119, 3-18-69, Cl. 340-173.
Onyx, Raymond C.: *See*—
Kiss, Emil P.; and Onyx, Raymond C.,3,420,127.
Ooba, Seichi: *See*—
Takenaka, Haruo; Ooba, Seichi; Ikeda, Teppei; and Adachihara, Shynich,3,475,193.
Ooka, Takayuki: *See*—
Nagashima, Shinichi; Ooka, Takayuki; Mimura, Hiroshi; and Fujishima, Toshiyuki,3,444,011.
Ooki, Toshihiko, to Kabushiki Kaisha Suwa Seikosha. Timepiece. 3,482,392, 12-9-69, Cl. 58-126.
Ooms, Jan: *See*—
Starzec, Francis J.; Ooms, Jan; and Schlansker, Kermit C.,3,448,383.
Oonishi, Yasuo; Okazaki, Takeshi; and Kubo, Masashi, to Japan Exlan Company Limited. Method of manufacturing simulated fur of acrylic composite fiber. 3,477,109, 11-11-69, Cl. 26-2.
Oosterbaan, Marvin D., to Dow Chemical Company, The. Insulated utility construction. 3,421,328, 1-14-69, Cl. 61-72.1
Oota, Hiroshi: *See*—
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi,3,426,904.
Ootaka, Koda: *See*—
Ukita, Tomizo; Nakai, Masashi; Minami, Zenro; Yamazaki, Toshio; and Ootaka, Koda,3,455,696.
Ootsuki, Chihiro: *See*—
Ono, Tsuneyoshi; Kamijo, Noriyuki; and Ootsuki, Chihiro,3,470,687.
Ooue, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu, to Fuji Shashin Film Kabushiki Kaisha. Method and apparatus for controlling the contrast of an image including a process for reversal of the image. 3,475,096, 10-28-69, Cl. 355-70.
Ooue, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu, to Fuji Photo Film Co., Ltd. Photographic materials having a picture image which may be reversed or varied with respect to the contrast thereof. 3,480,365, 11-25-69, Cl. 355-77.
Opad, Henry L. Device for monitoring multi-phase electric power supply system and providing control signal in response to proper operation of such system. 3,428,865, 2-18-69, Cl. 317-31.
Opalenik, John J.; and Corey, Lawrence G., to Arrow-Hart & Hegeman Electric Company, The. Variable speed controller for portable electric devices. 3,484,632, 12-16-69, Cl. 310-68.
Opcalite, Inc.: *See*—
Martin, Charles W., 3,465,197.
Opel, Detlef; Brinkmann, Karl-Heinz; and Kosmalski, Hermann, to Westinghouse Bremsen- und Apparatebau, G.m.b.H. Solenoid operated valve with manual override. 3,429,340, 2-25-69, Cl. 137-625.65
Opferkuch, Robert E., Jr.; and Thrasher, Bobby R., to Monsanto Company. Method of making a fiber optic mosaic with optical surfaces. 3,448,180, 6-3-69, Cl. 264-1.
Opferkuch, Robert E., Jr.; and Whatley, Charles W., to Monsanto Company. Dispersions in acrylonitrile polymer solutions. 3,455,862, 7-15-69, Cl. 260-32.6
Opipari, Anthony William, to Celanese Coatings Company. High solids coating compositions. 3,446,769, 5-27-69, Cl. 260-31.4
Opocensky, Willard J.: *See*—
Kunstadt, George H.; and Opocensky, Willard J.,3,472,072.
Oppedahl, Charles A., to Collins Radio Company. DC servo amplifier for armature drive motor. 3,427,520, 2-11-69, Cl. 318-18.
Oppel, John A.: *See*—
Badey, Paul E.; Oppel, John A.; and Tognella, Ugo R.,3,482,069.
Oppen, Walter R.: *See*—
Haring, Lewis L.; and Oppen, Walter R.,3,437,910.
Oppenheim, Michael J., to Kenner Products Company. Hand painting toy with snap-in print wheel. 3,465,673, 9-9-69, Cl. 101-328.
Oppenheimer, Edgar D., to Atomic Power Development Associates, Inc. Remote temperature measurement. 3,442,130, 5-6-69, Cl. 73-363.9
Oppenheimer, Jess. Electro-optical reproduction method. 3,461,229, 8-12-69, Cl. 178-6.6
Oppenheimer, Jess. Golf simulation system. 3,472,075, 10-14-69, Cl. 73-379.
Oppenlander, George C., to Hercules Incorporated. Process for producing foamed polypropylene monofilament. 3,422,171, 1-14-69, Cl. 264-51.
Oppenlander, George C., to Hercules Incorporated. Melt spinning elastic polypropylene monofilaments. 3,485,906, 12-23-69, Cl. 264-178.
Oppenlander, George C.; and Thomas, Walter W., to Hercules, Incorporated. Fused fibers of monoolefin polymers and method of manufacture. 3,436,298, 4-1-69, Cl. 161-150.
Oppermann, Adolf: *See*—
Nahm, Helmut; Oppermann, Adolf; Hoffmann, Hinrich; Kornlein, Max; and Oppinger, Heinz,3,461,116.
Opperthauser, Orval A.: *See*—
Ohrnberger, Peter H.; and Opperthauser, Orval A.,3,443,458.
Oppinger, Heinz: *See*—
Nahm, Helmut; Oppermann, Adolf; Hoffmann, Hinrich; Kornlein, Max; and Oppinger, Heinz,3,461,116.
Oprandi, Venanzio: *See*—
Gozzo, Franco; and Oprandi, Venanzio,3,458,535.
Oprecht, Ulrich, to Saurer, Adolph, Ltd. Auxiliary gas turbine generator for aircraft. 3,465,162, 9-2-69, Cl. 290-4.
Opti-Holding AG: *See*—
Frohlich, Alfons, 3,423,803.
Frohlich, Alfons, 3,482,292.
Heimberger, Helmut, 3,419,943.
Heimberger, Helmut, 3,431,337.
Heimberger, Helmut, 3,456,306.
Optical Coating Laboratory, Inc.: *See*—
Illsley, Rolf F.; Thelen, Alfred J.; and Apfel, Joseph H., 3,442,572.
Rock, Frank C., 3,432,225.
Rudomanski, Andrew C.; and Eufusia, Eugene A., 3,437,411.
Thelen, Alfred J., 3,423,147.
Optical Company: *See*—
Siegmund, Walter P.; Koester, Charles J.; and Ask, Clifford W., 3,442,568.
Optical Research and Development Corporation: *See*—
Alvarez, Luis W., 3,468,596.
Humphrey, William E., 3,437,396.
Humphrey, William E., 3,437,397.
Humphrey, William E., 3,468,595.
Humphrey, William E., 3,473,861.
Humphrey, William E., 3,475,073.
Humphrey, William E., 3,475,074.
Humphrey, William E., 3,479,108.
Opticase, Inc.: *See*—
Gershen, Irvin J., 3,462,301.
Optics Technology, Inc.: *See*—
Capellaro, David F., 3,453,385.
Sowers, Hal L.; Ruggieri, Dominic J.; and Balkwill, John T., 3,458,744.
Optimation, Inc.: *See*—
Wolcott, Henry O., 3,428,912.
Wolcott, Henry O., 3,445,781.
Optische Werke C. A. Steinheil Sohne G.m.b.H.: *See*—
Schuck, Manfred; and Franz, Hellmut, 3,474,992.
Optische Werke G. Rodenstock: *See*—
Dietrich, Anton, 3,431,045.
Rosner, Ortwin; Schlegel, Franz; and Sebestyen, Nikolaus, 3,429,997.
Schlegel, Franz, 3,428,386.
Schlegel, Franz, 3,433,551.
Schlegel, Franz, 3,445,154.
Schlegel, Franz, 3,447,861.
Schlegel, Franz, 3,454,326.
Schlegel, Franz, 3,482,902.
OPTOmechanisms, Inc.: *See*—
Brault, Andre R.; and White, Robert E., 3,421,813.
Brault, Andre R., 3,438,133.
Brault, Andre R., 3,455,026.
Burnham, William W., 3,421,814.
Chitayat, Anwar K., 3,434,787.
Chitayat, Anwar K., 3,443,871.
Chitayat, Anwar K., 3,450,480.
Chitayat, Anwar K., 3,476,476.
Chitayat, Anwar K., 3,486,275.
Franklin, Joseph D., 3,473,227.
White, Robert E., 3,449,046.
White, Robert E., 3,474,255.
Orain, Michel, to Societe Anonyme: Glaenzer Spicer. Bellows for protecting sliding devices. 3,442,096, 5-6-69, Cl. 64-32.
Orain, Michel, to Glaenzer Spicer. Tools for forming grooves with circular generatrices in workpieces. 3,457,750, 7-29-69, Cl. 72-75.
Orain, Michel, to Glaenzer Spicer Societe Anonyme. Detachable connection between a flexible tube and a rigid tubular member. 3,466,067, 9-9-69, Cl. 285-244.
Oram, Daphne. Digitally controlled waveform generators. 3,478,792, 11-18-69, Cl. 250-202.
Orange, John L. Artificial foot. 3,484,871, 12-23-69, Cl. 3-7.

Oransky, Raymond L.; and Rombalski, Richard H., to Scott Paper Company. Imaging of lithographic plates by gelatin transfer. 3,480,432, 11m25-69, Cl. 96-28.
Orard, Joseph Antoine Louis: *See—*
Bourget, Maurice Louis; Gesnel, Andre Paul; and Orard, Joseph Antoine Louis,3,469,341.
Oravez, Carl A., to Hoerner-Waldorf Corporation. Pallet of corrugated paperboard and the like. 3,425,367, 2-4-69, Cl. 108-51.
Orazi, Paolo. Aircraft or towed gliders. 3,477,663, 11-11-69, Cl. 244-8.
Orbit Valve Company: *See—*
King, Rudy W., 3,473,554.
Orbital Engineering Limited: *See—*
Hughes, Cecil, 3,424,096.
Orcco Industries, Inc.: *See—*
Baxter, Stanley V., 3,471,897.
Prohaska, John O., 3,426,388.
Orchard, Clifton F.: *See—*
Phillips, Carroll D.; and Orchard, Clifton F.,3,459,102.
Orchard, Henry J.; and Lee, William N., to Automatic Electric Laboratories, Inc. Negative resistance network. 3,470,500, 9-30-69, Cl. 333-80.
Orchin, Milton: *See—*
Scheben, John A.; Mador, Irving L.; and Orchin, Milton,3,450,730.
Orcon Corporation: *See—*
Bascom, Hollis H.; Greci, John J.; and Jenkins, Richard G., 3,463,693.
Orcutt, Dee R., to Pittsburgh Plate Glass Company. Laminated window panels. 3,424,642, 1-28-69, Cl. 161-45.
Orcutt, Franklin D.: *See—*
Boyer, Charles B.; and Orcutt, Franklin D.,3,427,011.
Boyer, Charles B.; Conaway, Robert Michael; and Orcutt, Franklin D.,3,466,656.
Orcutt, John W.: *See—*
Beatenbough, Paul K.; Hutchins, Ward H.; and Orcutt, John W.,3,448,659.
Ord, Robinson, Jr., to Du Pont de Nemours, E. I., and Company. Method for determining free phosphoric acid content in trichlorethylene-based phosphatizing baths. 3,459,507, 8-5-69, Cl. 23-230.
Ord, Thomas E. Material handling device. 3,472,404, 10-14-69, Cl. 214-313.
Ordas, Eugene P., to Velsicol Chemical Corporation. Water dispersible powdered pesticide concentrates. 3,421,882, 1-14-69, Cl. 71-100.
Ordower, Robert, to International Business Machines Corporation. Monolithically fabricated sense amplifier-threshold detector. 3,461,318, 8-12-69, Cl. 307-235.
Ordway, Richard S.: *See—*
Comeau, George O.; Laurence, Leonard J.; and Ordway, Richard S.,3,466,683.
Ordway, Richard S., to Comeau, George O. Apparatus for applying a fluent to an object travelling on a conveyor. 3,426,973, 2-11-69, Cl. 239-66.
Oredson, Henry N.: *See—*
Olson, Arvid L.; Oredson, Henry N.; and Torok, Ernest J.,3,434,124.
O'Regan, Charles P.; and DeLeo, Louis P., to Singer-General Precision, Inc. Stepper motor damping circuit. 3,465,225, 9-2-69, Cl. 318-138.
O'Regan, Charles P., to General Precision Systems Inc. Variable reluctance stepper motor. 3,430,083, 2-25-69, Cl. 310-49.
Oregon Metallurgical Corporation: *See—*
Krey, Charles F., 3,472,656.
Shelton, Stephen M.; and Poole, Henry Gordon, 3,464,813.
O'Reilly, Bernard, to Nassau Smelting and Refining Company, Inc. Processes of removing plastic insulation from wires and of controlling gases resulting therefrom. 3,448,509, 6-10-69, Cl. 29-403.
O'Reilly, Campbell. Frying pan insert. 3,427,957, 2-18-69, Cl. 99-446.
Orekhanov, Voleslav Zakharovich: *See—*
Bazhenov, Petr Dmitrievich; Orekhanov, Voleslav Zakharovich; Rubets, Vladimir Gavrilovich; and Failkovsky, Vladimir Ivanovich,3,486,437.
Orem, James W.; Lione, Leonard V.; and Turco, Daniel T., to Butterworth System, Inc. Tank washing apparatus. 3,472,451, 10-14-69, Cl. 239-227.
Orem, Thomas R.: *See—*
McCarthy, Paul R.; and Orem, Thomas R.,3,423,315.
Orenda Limited: *See—*
Caple, Donald, 3,444,898.
Shoji, Henry Norihiko, 3,430,179.
Orendorff, John W.; Boetto, Charles; and Andersson, Ingemar R., to International Harvester Company. Flexible duplex hitch. 3,436,098, 4-1-69, Cl. 280-412.
Orenick, Emil H. Cable strap. 3,486,200, 12-30-69, Cl. 24-16.
Orenick, Emil H.; and Orenick, Emil J. Casting bobber. 3,431,671, 3-11-69, Cl. 43-44.87
Orenick, Emil J.: *See—*
Orenick, Emil H.; and Orenick, Emil J.,3,431,671.
Orenstein, Stephen M., deceased; and Orestein, Lucille; administratrix. Player piano attachment. 3,449,994, 6-17-69, Cl. 84-110.
Orenstein-Koppel und Lubecker Maschinenbau Aktiengesellschaft: *See—*
Gerber, Jurgen; and Fichtner, Friedrich, 3,478,647.
Oreshnikov, Zakhar Alexeevich: *See—*
Grechin, Vyacheslav Petrovich; Oreshnikov, Zakhar Alexeevich; and Milyaev, Boris Fedorovich,3,460,608.
Orestein, Lucille: *See—*
Orenstein, Stephen M., deceased; and Orestein, Lucille; administratrix,3,449,994.
Organon Inc.: *See—*
Arens, Josef Ferdinand; and Brandsma, Lambert, 3,422,151.
de Visser, Jacob; and Modderman, Pieter, 3,479,375.
de Winter, Max Salomon; Modderman, Pieter; and Kloosterman, Johannes, 3,429,875.
de Winter, Max Salomon, 3,431,287.
de Winter, Max Solomon; and Harryvan, Elze Anjo, 3,475,465.
Greven, Hendrik Maria, 3,479,333.
Haigh, Brian, 3,433,352.
Hell, Hans Van, 3,457,346.
Kusik, Alan, 3,437,206.
van der Burg, Willem Jacob, 3,468,936.
Van Dorp, David Adriaan; and Szpilfogel, Stefan Antoni, 3,423,434.
Orgen, Donald E.; Prince, Arthur E., Jr.; and Rozett, Robert, to Celanese Corporation. Method of purifying bis(orthodiaminophenyl) compounds. 3,481,984, 12-2-69, Cl. 260-582.
Oriard, Marcel H.: *See—*
Sheeran, Harold W.; and Oriard, Marcel H.,3,450,582.
Sheeran, Harold W.; and Oriard, Marcel H.,3,453,155.
Oriard Powder Co., Inc.: *See—*
Sheeran, Harold W.; and Oriard, Marcel H., 3,453,155.
Original Hanau Quarzlampen GmbH: *See—*
Lutter, Theodor, 3,463,914.
Orii, Sho. Vibration-proof device for shifting and installing machines. 3,455,526, 7-15-69, Cl. 248-24.
Oringer, Kenneth; Gallagher, Gerald T.; Bunin, Donald S.; and Easton, Bernard E., to FMC Corporation. Manufacture of peracetic acid. 3,432,546, 3-11-69, Cl. 260-502.
Orinik, Michael T.: *See—*
Billet, James M.; Orinik, Michael T.; and Thompson, James O.,3,450,553.
Orion Research, Inc.: *See—*
Frant, Martin S., 3,431,182.
Frant, Martin S., 3,467,591.
Gibson, Edward J.; Shiller, Stanley L.; and Riseman, John H., 3,467,590.
Riseman, John H., 3,426,184.
Ross, James W., 3,438,886.
Ross, James W., 3,483,112.
Shiller, Stanley L.; and Frant, Martin S., 3,442,782.
Orita, Michio; Yahagi, Masakichi; and Enomoto, Chiyouzi, to Nisso Kako Co., Ltd. 6-Dialkylaminofluorans. 3,442,908, 5-6-69, Cl. 260-335.
Orita, Takao: *See—*
Omura, Masuo; Orita, Takao; and Kosaka, Masahiro,3,461,217.
Orkin, Bernard A.; and Braid, Milton, to Mobil Oil Corporation. Stable hydrocarbon lubricating oils and process for forming same. 3,436,334, 4-1-69, Cl. 208-18.
Orkin, Stanley S.; and Hudacko, Vincent J., to Kaman Corporation. Self-lubricating bearing. 3,428,374, 2-18-69, Cl. 308-37.
Orkney, John C. Method of vibrating a member to drive it in a resistive medium. 3,477,237, 11-11-69, Cl. 61-53.5
Orlandini, Bruno; and Kirkpatrick, Kenneth K., to Bunker Hill Company, The. Liquid ion exchange process for metal recovery. 3,479,378, 11-18-69, Cl. 260-429.
Orlandini, Bruno; and Schmittroth, Walter, to Bunker Hill Company, The. Continuous process for leaching zinc calcine. 3,482,966, 12-9-69, Cl. 75-101.
Orlando, Anthony W., to International Business Machines Corporation. Automatic threading status detection means. 3,473,042, 10-14-69, Cl. 307-118.
Orlando, Daniel: *See—*
Kirchberger, Walter Carl; and Orlando, Daniel,3,427,424.
Orlando Paving Company: *See—*
Torman, Charles H., 3,439,593.
Orlando, Vincent A., to General Motors Corporation. Two-axis angular displacement detector. 3,430,173, 2-25-69, Cl. 336-79.
Orlemann, Justus K., to Pfizer, Chas., & Co., Inc. Metal coated stainless steel powder. 3,425,813, 2-4-69, Cl. 29-183.5
Orley, William J., to Hydralink Corporation. Bending tool for mounted fittings. 3,426,575, 2-11-69, Cl. 72-458.
Orliac, Francois. Prefabricated extendable enclosure. 3,470,658, 10-7-69, Cl. 52-28.
Orlich, Helmut; Kales, Josef; Grotewohl, Albert; and Zaschke, Jurgen. Torsion device for steering columns. 3,482,466, 12-9-69, Cl. 74-492.

Orlita, Franz. Diaphragm assembly for a diaphragm pump. 3,431,823, 3-11-69, Cl. 92-79.
Orloff, Arthur; and Stone, Guthrie B., to Stone Conveyor Company. Conveyor supporting system. 3,471,001, 10-7-69, Cl. 198-119.
Orloff, Daniel L., to Mayer, Oscar, & Co., Inc. Volumetric metering stuffer. 3,473,579, 10-21-69, Cl. 141-156.
Orloff, Daniel L.: *See—*
Wedekind, Norman J.; and Orloff, Daniel L.,3,464,343.
Orloff, George, to Molins Machine Company Limited. Fluid servo motors. 3,464,316, 9-2-69, Cl. 91-176.
Orloff, John F.; and Baugh, Charles W., to Huck Manufacturing Company. Tension stressed structure. 3,421,562, 1-14-69, Cl. 151-2.
Orloff, John F.: *See—*
Reynolds, Perry J.; and Orloff, John F.,3,464,306.
Orloff, William R.: *See—*
Reich, Bernard; Benanti, Michael A.; and Orloff, William R.,3,440,530.
Orlomoski, Roger W., to Reed Rolled Thread Die Co. Means for deburring screw heads. 3,429,162, 2-25-69, Cl. 72-90.
Orlov, Boris Yakovlevich: *See—*
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich,3,480,074.
Orlova, Tatjana Ivanovna; and Scherbakova, Nadezhda Vasiljevna. Method of manufacture of transparent yellow azo pigment. 3,446,640, 5-27-69, Cl. 106-288.
Orlowski, Anthony J. Automatic fish feeder. 3,435,804, 4-1-69, Cl. 119-51.11
Orlowski, Jan: *See—*
Kokosinski, Jacek; Orlowski, Jan; Czachowska, Barbara; and Hancyk, Boleslaw,3,424,793.
Ormanns, Gottfried, to Rheinmetall GmbH. Projectile with sintered metal driving band. 3,460,478, 8-12-69, Cl. 102-93.
Orme, Myrl E., to Bendix Corporation, The. Pressure feedback. 3,454,026, 7-8-69, Cl. 137-85.
Ormerod, Alan: *See—*
Jackson, Squire Ronald; Saunders, Ronald Douglas Haig; and Ormerod, Alan,3,481,146.
Ormerod, Leslie Roy, to United Kingdom Atomic Energy Authority. Extrusion of composite bodies. 3,434,192, 3-25-69, Cl. 29-411.
Ormerod, Leslie Roy, to United Kingdom Atomic Energy Authority. Extrusion of composite bodies. 3,434,323, 3-25-69, Cl. 72-258.
Ormesher, Edward Russell, to Pilkington Brothers Limited. Method and apparatus for electrical viscosity control of float glass. 3,445,214, 5-20-69, Cl. 65-99.
Ormond, Alfred N. Test stand structures for reducing interacting forces. 3,449,947, 6-17-69, Cl. 73-117.4
Ormonoterapia Richter S.p.A.: *See—*
de Ruggeri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, 3,481,924.
de Ruggieri, Pietro; Gondolfi, Carmelo; and Guzzi, Umberto, 3,449,327.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, 3,458,502.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, 3,484,435.
De Ruggieri, Pietro; Gandolfi, Carmelo; and Guzzi, Umberto, 3,485,826.
Ormsbee, Ruth E.: *See—*
Bach, Frederick O.; and Ormsbee, Ruth E.,3,445,224.
Ormsby, Richard: *See—*
Mountjoy, Frank B.; and Ormsby, Richard,3,484,665.
Ornas, Theodore, Jr.; and Lewton, Deo, to International Harvester Company. Unitary signal device having front and side signal areas. 3,430,229, 2-25-69, Cl. 340-383.
Ornberg, Kjell Torsten, to Saab Aktiebolag. Stabilizing the vortices over a thin delta wing. 3,471,107, 10-7-69, Cl. 244-41.
Orndorff, Roy L., Jr.; and Foulk, John M., to Goodrich, B. F., Company, The. Power transmission. 3,453,900, 7-8-69, Cl. 74-219.
Ornitz, Martin N., to Blaw-Knox Company. Centrifugal casting apparatus with smooth refractory nonhydrocarbon mold coating. 3,437,131, 4-8-69, Cl. 164-298.
Ornitz, Martin N., to Blaw-Knox Company. Mold coating composition, particularly for centrifugal molds. 3,447,936, 6-3-69, Cl. 106-38.27
Ornsteen, Alfred, to Kesslen Shoe Company. Shoe interconnecting means. 3,482,335, 12-9-69, Cl. 36-1.
Ornstein, Jacob L., to Texas Instruments, Incorporated. Thermostatic composite metal layers. 3,454,373, 7-8-69, Cl. 29-183.5
Ornstein, Jacob L.; and Mueller, Howard C., to Texas Instruments, Incorporated. Manufacture of composite thermostatic metal. 3,479,732, 11-25-69, Cl. 29-497.5
Orobis Limited: *See—*
Coupland, Keith, 3,437,595.
Oronzio de Nora Impianti Elettrochimici S.A.S.: *See—*
Bianchi, Giuseppe; and Nidola, Antonio, 3,428,544.
Oropeza, Esther; and Oropeza, Violet E. Air purifier device. 3,465,504, 9-9-69, Cl. 55-228.
Oropeza, Frank C.; and Murray, Jack T., to Melpar, Inc. Binary frequency synthesizer with alternating offset frequency technique. 3,454,883, 7-8-69, Cl. 328-14.
Oropeza, Violet E.: *See—*
Oropeza, Esther; and Oropeza, Violet E.,3,465,504.
Oroschakoff, Georgi. Staggered reinforcement for concrete structures. 3,475,876, 11-4-69, Cl. 52-581.
Oroshnik, William: *See—*
Schipper, Edgar; Oroshnik, William; and Cinnamon, Jerome M.,3,435,064.
Oroslan, Andrew; Sello, Stephen B.; and Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Method and reactants for modifying cellulose polymers. 3,485,815, 12-23-69, Cl. 260-212.
O'Rourke, Gerald J. Flexible belt adapted to support heavy loads. 3,475,064, 10-28-69, Cl. 308-3.5
O'Rourke, Innis, Jr.:*See—*
Bergesen, Howard; and O'Rourke, Innis, Jr.,3,465,394.
Bergesen, Howard; and O'Rourke, Innis, Jr.,3,468,000.
O'Rourke, John C. Safety fixture for tilting furnace. 3,458,179, 7-29-69, Cl. 263-33.
Orr, Anthony Hugh. Aerodynamic lift producing devices. 3,465,988, 9-9-69, Cl. 244-12.
Orr, Clifford M.: *See—*
Chamberlin, Robert S.; Orr, Clifford M.; and Schmitz, Ewald F.,3,453,879.
Orr, Clyde, Jr.: *See—*
Davis, Dearl Keith; Hendrix, Warren P.; and Orr, Clyde, Jr.,3,438,264.
Hendrix, Warren P.; and Orr, Clyde, Jr.,3,464,273.
Orr, Clyde, Jr.; and Hendrix, Warren P., to Georgia Tech Research Institute. Continuous thermal precipitator. 3,458,974, 8-5-69, Cl. 55-209.
Orr Felt & Blanket Company, The: *See—*
Koester, John P., 3,458,911.
Orr, Howard S., to United States Steel Corporation. Flexible starter bar for continuous-casting mold. 3,451,466, 6-24-69, Cl. 164-274.
Orr, Howard S.; and Reinhardt, Anthony D., to United States Steel Corporation. Method of rolling slabs in planetary mill. 3,422,656, 1-21-69, Cl. 72-366.
Orr, Jack P.: *See—*
Gutman, Arnold D.; and Orr, Jack P.,3,433,870.
Orr, James C.: *See—*
Bowers, Albert; Edwards, John; and Orr, James C.,3,427,386.
Orr, John Scott: *See—*
Oldham, Wilfred John; and Orr, John Scott,3,422,162.
Orr, Matthew Fay, to Levitt Manufacturing Corporation. Load responsive frictional vehicle drive transmission. 3,473,622, 10-21-69, Cl. 180-70.
Orr, Robert J.; Breitman, Leo; and Buckler, Ernest J., to Polymer Corporation Limited. Synthetic rubber compositions. 3,467,620, 9-16-69, Cl. 260-41.5
Orr, Robert J.; and Hazel, John Evan, to Polymer Corporation Limited. Film-forming hydrohalogenated copolymer of dienes. 3,454,541, 7-8-69, Cl. 260-82.1
Orr, William H., to Bell Telephone Laboratories, Incorporated. Notch filter. 3,457,526, 7-22-69, Cl. 333-75.
Orr, William R.: *See—*
Deffeyes, Kenneth S.; and Orr, William R.,3,475,679.
Orrange, Robert J.: *See—*
Aldrich, Douglas H.; Bombard, Richard F.; Gibbs, Doyle C.; and Orrange, Robert J.,3,448,271.
Orrell, Irving F., Jr., to United States of America, Army, mesne. Level conversion circuit for interfacing logic systems. 3,422,282, 1-14-69, Cl. 307-203.
Orrell, Irving F., Jr., to United States of America, Army, mesne. Quench circuit. 3,453,451, 7-1-69, Cl. 307-254.
Orris, John Adam; and Daroszewski, Leon, to United Engineering and Foundry Company. Gate positioning device for article-casting machine. 3,435,884, 4-1-69, Cl. 164-341.
Orrtronics, Inc.: *See—*
Cousino, Ralph E., 3,420,461.
Cousino, Ralph E., 3,420,463.
Orsen, Stefan: *See—*
Bernstein, Benjamin T.; Orsen, Stefan; and Zucker, Melvin J.,3,453,647.
Engelberg, Charles; and Orsen, Stefan,3,445,839.
Orser, Keith L., to Columbian Rope Company. Twine. 3,447,301, 6-3-69, Cl. 57-151.
Orshansky, Elias, Jr., to URS Corporation. Split-torque hydromechanical transmission. 3,446,093, 5-27-69, Cl. 74-687.
Orshansky, Elias, Jr., to URS Corporation. Split-torque hydromechanical transmission. 3,455,183, 7-15-69, Cl. 74-687.
Orsinger, Winston A., to Bell & Howell Company. Collating-inserting machine. 3,423,900, 1-28-69, Cl. 53-29.
Orsini, Jean: *See—*
Ingrassia, Sauveur; and Orsini, Jean,3,472,669.
Orsino, Joseph A., to Electromite Corporation. Liquid activated battery. 3,481,791, 12-2-69, Cl. 136-113.
Orsulak, John P.: *See—*
Hoiberg, Arnold J.; Orsulak, John P.; and Bick, Philip C.,3,443,981.

Ort, Werner; and Frank, Kurt, to Fernseh GmbH. Method of making image orthicon pickup tube with high storage capacity. 3,474,511, 10-28-69, Cl. 29-25.14

Ort, Wolfgang, to Eastman Kodak Company. Objective for a photographic camera. 3,447,441, 6-3-69, Cl. 95-44.

Orte, Sven Erik Willner: *See—*
Johansson, Yngve Lennart; and Orte, Sven Erik Willner,3,465,848.

Ortega, Robert, to Pools, Anthony, Inc. Outdoor swimming pool heater. 3,421,482, 1-14-69, Cl. 122-264.

Ortega, Robert. Automatic vacuum pool cleaner. 3,430,277, 3-4-69, Cl. 15-1.7

Ortel, William C. G., to Bell Telephone Laboratories, Incorporated. Bistable circuit employing negative resistance semiconductor diodes. 3,421,029, 1-7-69, Cl. 307-322.

Orth, Charles D.; and Treder, Charles F., to Controls Company of America. Bubless thermostatic expansion valve. 3,450,345, 6-17-69, Cl. 236-92.

Orth, Hans; Franz, Ludwig; and Divivier, Urban, to G. M. Pfaff AG. Stitching control mechanism for chainstitch sewing machines. 3,460,497, 8-12-69, Cl. 112-200.

Orth, Hans; and Niklaus, Ulrich, to Ciba Limited. Triazines containing oxetane groups. 3,449,340, 6-10-69, Cl. 260-248.

Orth, Norman W.: *See—*
Weeton, John W.; Quatinetz, Max; and Orth, Norman W.,3,463,679.

Orthman, Henry K. Windrow turning device. 3,478,502, 11-18-69, Cl. 56-366.

Orthmann, Jurgen: *See—*
Wick, Richard; Waschk, Fritz; and Orthmann, Jurgen,3,431,053.

Ortho Pharmaceutical Corporation: *See—*
Allen, George O., Jr., 3,428,733.
Davis, Hugh J.; and Jones, Edmund A., 3,431,905.
Huck, Charles M., 3,437,236.
Huck, Charles M., 3,448,737.
Karmas, George, 3,427,330.
Mebane, Alexander, 3,449,373.
Pollack, William, 3,449,314.
Shroff, Arvin P., 3,437,674.
Shroff, Arvin Pranlal, 3,455,903.

Orthober, Frank J., to Valspar Corporation. Container holding device and package. 3,458,035, 7-29-69, Cl. 206-65.

Orthopedic Equipment Company, Inc.: *See—*
Keller, Donald D., 3,424,967.
Kuntscher, Gerhard, 3,439,671.
Kuntscher, Gerhard, 3,472,229.

Orthopedic Equipment Company, Inc., The: *See—*
Kuntscher, Gerhard, 3,468,312.

Ortiz, Raymond, to Newcomb Electronics Corporation. Corner packing device. 3,482,759, 12-9-69, Cl. 229-14.

Ortlieb, Alfred: *See—*
Clauss, Siegbert; Hurst, Kurt; and Ortlieb, Alfred,3,466,658.

Ortlieb, Alfred, to Bosch, Robert, G.m.b.H. Facsimile system for reproducing a picture or the like on a metal layer. 3,429,991, 2-25-69, Cl. 178-6.6
Hoyer, Karl; and Ortlieb, Alfred,3,446,943.
Hurst, Kurt; and Ortlieb, Alfred,3,453,649.

Ortlinghaus, Adolf: *See—*
Ortlinghaus, Otto; Ortlinghaus, Adolf; and Lemp, Jurgen,3,469,664.

Ortlinghaus, Otto; Ortlinghaus, Adolf; and Lemp, Jurgen, to Gebr. Orthlinghaus. Combined coupling and brake mechanism. 3,469,664, 9-30-69, Cl. 192-18.

Ortloff, John E., to Esso Production Research Company. Universal ball joint for pressurized flow lines. 3,475,039, 10-28-69, Cl. 285-45.

Ortner, Ernst; and Hartman, Richard A., to International Rectifier Corporation. O-bend lead for semiconductor packages. 3,449,642, 6-10-69, Cl. 317-234.

Ortner, Ernst: *See—*
Weinstein, Harold; and Ortner, Ernst,3,449,506.

Ortner, Martin H.: *See—*
Gebler, Kenneth A.; and Ortner, Martin H.,3,467,588.

Ortner, Martin H.; and McCullough, Harold M., to Vitro Corporation of America. Sulfidation corrosion-resistant coating containing rare earth metal aluminides. 3,447,912, 6-3-69, Cl. 29-182.3

Orton, Erby: *See—*
Dubble, Roger D.; and Orton, Erby,3,479,208.

Orton, Joseph Roy, to Chisholm-Ryder Company, Inc. Method of harvesting grapes or the like. 3,439,478, 4-22-69, Cl. 56-1.

Orton, Joseph R., to Chisholm-Ryder Company, Inc. Grape harvesting machine. 3,439,482, 4-22-69, Cl. 56-330.

Ortronix, Inc.: *See—*
Hane, Walter E.; and Alexander, Jack F., 3,440,540.

Orttung, Frederick W., Jr.: *See—*
Chow, Sui-Wu; Gulick, Rodwin E.; and Orttung, Frederick W., Jr.,3,445,362.

Orui, Ryuzo: *See—*
Yasuda, Susumu; and Orui, Ryuzo,3,445,714.

Orwig, Nelson: *See—*
Kuns, Roger R.; and Orwig, Nelson,3,438,508.

Orwin, Olaf J. B., to Fisholow Products Limited. Conveyors. 3,424,112, 1-28-69, Cl. 104-172.

Orwin, Olaf J. B.; and Fortune, David J., to Fisholow Products, Limited. Overload clutches. 3,429,407, 2-25-69, Cl. 192-56.

Orwin, Robert J.; and Stanford, Robert C., to HLF Corporation, mesne. Linear power amplifier circuit. 3,460,041, 8-5-69, Cl. 325-50.

Ory, Edwin L., Jr.; and Riley, John. Supporting means for bathroom washbowl. 3,428,968, 2-25-69, Cl. 4-170.

Orzechowski, Jack F.: *See—*
Jensen, Warren R.; and Orzechowski, Jack F.,3,462,387.

Orzechowski, John F.: *See—*
Novak, Jane E.; and Orzechowski, John F.,3,453,818.

O & S Bearing & Mfg., Co.: *See—*
Smith, Frederic R., 3,451,700.
Smith, Frederic R., 3,451,701.

Osa, Tetsuo: *See—*
Misono, Akira; and Osa, Tetsuo,3,485,726.

Osada, Yoshihiro: *See—*
Nakahara, Masataka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro,3,477,998.
Nakahara, Mastaka; Ogawa, Yasuhiro; Iizuka, Yasuhiro; and Osada, Yoshihiro,3,436,406.

Osahi Glass Co., Ltd.: *See—*
Ono, Shigeo; Kayano, Seiichi; and Negishi, Ryoichi, 3,465,934.

Osaka Bobbin Kabushiki Kaisha: *See—*
Inouye, Mitsuji; and Nagai, Yoshiharu, 3,471,102.

Osaka Kiko Kabushiki Kaisha: *See—*
Murakami, Zenzi; Ishikura, Morizo; and Manami, Masahiro, 3,440,689.

Osaka, Matajiro; Uoda, Hidetaka; Horii, Shigeo; and Okuda, Minoru, to Fuji Kagaku Kogyo Kabushiki Kaisha. Continuous counter-current washing system by thickener method. 3,442,605, 5-6-69, Cl. 23-110.

Osaka Shosen Mitsui Senpaku Kabushiki Kaisha (Mitsui O.S.K. Lines Ltd.): *See—*
Hirai, Toshio; Moori, Takehiro; and Masago, Hiroshi, 3,440,834.

Osaka Soda Co., Ltd.: *See—*
Lanaka, Tomoharu; Miyamae, Masao; Takayama, Shinichi; Iio, Katsumi; Komatsubara, Tomomitsu; and Soma, Takeshi, 3,424,729.

Osaka Transformer Co., Ltd., The: *See—*
Okita, Hideki, 3,461,379.
Sekino, Shigeo, 3,480,221.

Osakeyhtio, A. Ahlstrom: *See—*
Aremaa, Toivo Ensio, 3,455,821.
Hakulin, Bertel Kristian, 3,445,549.

Osako, Kyoichi: *See—*
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,454,017.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,469,365.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkihi; and Osako, Kyoichi,3,476,125.

Osawa, Hideo: *See—*
Omoto, Seiji, 3,479,921.

Osawa, Hideo; Sakamoto, Yosio; and Kondo, Masayuki, to Tokyo Shibaura Electric Co., Ltd. Radiation thermometers. 3,477,291, 11-11-69, Cl. 73-355.

Osban, William R.: *See—*
Blanchette, Howard M.; and Osban, William R.,3,439,697.

Osband, Sidney: *See—*
Goodhue, William M.; Osband, Sidney; and Sabath, Herman,3,452,609.

Osbond, John Mervyn; and Fothergill, Graham Alwyn, to Hoffmann-La Roche, Inc. Substituted 2-/3-aryl-3-keto (or 3-hydroxy)-propyl-1,2,3,4-tetrahydroisoquinolines. 3,450,704, 6-17-69, Cl. 260-289.

Osbond, John Mervyn; and Wickens, James Charles, to Hoffmann-La Roche, Inc. 1-Heterocyclic-1,2,3,4-tetrahydroisoquinolines and processes. 3,466,289, 9-9-69, Cl. 260-288.

Osborn, Carroll H., to Dayco Corporation. Method of making corrugated flexible hose. 3,445,308, 5-20-69, Cl. 156-86.

Osborn, Carroll H.; and Cudd, Wilson E., to Dayco Corporation. Flexible tubing and method of manufacture. 3,478,770, 11-18-69, Cl. 138-135.

Osborn, Fredrick W., to Lear Siegler, Inc. Differential output circuit for capacitive pickoffs and the like. 3,435,317, 3-25-69, Cl. 320-1.

Osborn, Harry B., Jr., to Ohio Crankshaft Company, The. Heat treating method. 3,433,683, 3-18-69, Cl. 148-13.2

Osborn, Howard, to Wiggins Teape Research & Development Limited. Sheet stacking apparatus. 3,477,323, 11-11-69, Cl. 83-79.

Osborn, Lloyd, to V-M Corporation. Braking apparatus. 3,485,459, 12-23-69, Cl. 242-210.

Osborn Manufacturing Company, The: *See—*
Martin, Angelo Joseph, 3,421,172.

Osborn, Oliver: *See—*
Olstowski, Franciszek; and Osborn, Oliver,3,440,311.

Osborn, Oliver; and Robertson, John C., to Dow Chemical Company, The. Method for production of particulate metal. 3,482,963, 12-9-69, Cl. 75-0.5
Osborn, Peter E., to Friden, Inc. Delay line resynchronization apparatus. 3,465,301, 9-2-69, Cl. 340-172.5
Osborn, Ralph K.: *See*—
Walter, Robert Campbell; and Osborn, Ralph K.,3,483,399.
Osborn, Raymond L., to Oak Electro/Netics Corporation. Television tuner input circuit for VHF and UHF signals. 3,469,194, 9-23-69, Cl. 325-370.
Osborn, Robert Otto: *See*—
Boyle, Donn George; and Osborn, Robert Otto,3,467,142.
Osborn, Robert Otto, to Du Pont de Nemours, E. I., and Company. Regenerated cellulose film. 3,423,400, 1-21-69, Cl. 260-212.
Osborn, Stephen W., to Thiokol Chemical Corporation. Catalytic process. 3,472,821, 10-14-69, Cl. 260-79.
Osborn, Stephen W.; Broderick, Edward; and Villa, Jose L., to Thiokol Chemical Corporation. Production of vicinal episulfides by the oxide- catalyzed reaction of an alkylene oxide and a sulfur-donor. 3,426,039, 2-4-69, Cl. 260-327.
Osborn, Stephen W.; and Gobran, Riad H., to Thiokol Chemical Corporation. Antifriction bearings. 3,464,845, 9-2-69, Cl. 117-49.
Osborn, Stephen W.; and Villa, Jose L., to Thiokol Chemical Corporation. Process for the preparation of vicinal episulfides. 3,457,277, 7-22-69, Cl. 260-327.
Osborn, William F., Jr.; and Soder, Karl G., to General Motors Corporation. Turbine power plant. 3,466,871, 9-16-69, Cl. 60-67.
Osborn, William F.: *See*—
Redwine, Fletcher H.; Newman, James L.; and Osborn, William F.,3,486,375.
Osborn, William G.: *See*—
Matthysse, Irving F.; Raila, Edward S.; Osborn, William G.; and Brautigam, John J.,3,427,549.
Osborne, Alan P., to Dunlop Company Limited, The. Bonding textiles to rubbers. 3,433,664, 3-18-69, Cl. 117-76.
Osborne, Bodwell D. Submersible automatic solid surface cleaner. 3,422,478, 1-21-69, Cl. 15-1.7
Osborne, Fred H.; and Corbett, Michael J., to Wurlitzer Company, The. Record popularity indicator. 3,420,532, 1-7-69, Cl. 274-10.
Osborne, Fred H.; and Hull, Charles J., to United States of America, Army. Battery. 3,421,941, 1-14-69, Cl. 136-83.
Osborne, Geoffrey Vaughan: *See*—
Ball, Kenneth; and Osborne, Geoffrey Vaughan,3,486,500.
Osborne, Harold Norman. Composite light transmitting and light reflecting panels and the like. 3,453,039, 7-1-69, Cl. 350-260.
Osborne, Jack D., to Skuttle Mfg., Co. Direct measuring moisture apparatus including replaceable scale dials. 3,427,537, 2-11-69, Cl. 324-65.
Osborne, John T. Safety device for wheels. 3,486,797, 12-30-69, Cl. 301-9.
Osborne, Robert Jarvis: *See*—
Light, Herbert Julius; and Osborne, Robert Jarvis,3,464,422.
Osborne, William E., to General Dynamics Corporation. Radiation sensitive omnidirectional motion detector system. 3,480,775, 11-25-69, Cl. 250-83.3
Osborne, William T.: *See*—
Lavigne, William J., Jr.; Osborne, William T.; and Anderson, Carl M.,3,443,572.
Osburg, Ludwig A.: *See*—
Millikan, Roger C.; and Osburg, Ludwig A.,3,448,322.
Osburn, Albert R., to Thiokol Chemical Corporation. Rocket motor thrust vector control apparatus. 3,426,972, 2-11-69, Cl. 239-8.
Osburn, Albert R., to Thiokol Chemical Corporation. Combustion barrier for rocket motor. 3,427,805, 2-18-69, Cl. 60-39.47
Osburn, Carl L., to Phillips Petroleum Company. Temperature balancing of multipass heat exchanger flows. 3,450,105, 6-17-69, Cl. 122-451.
Osburn, John G., to Kearney & Trecker Corporation. Temperature compensated spindle positioner. 3,429,224, 2-25-69, Cl. 90-11.
Osby Pumpindustri: *See*—
Andersson, Hilding Gustav Vincent, 3,446,151.
Osco Corporation: *See*—
Reisner, Sam, 3,475,934.
Reisner, Sam, 3,486,226.
Osdene, Thomas S.; Rane, Leo; and Russell, Peter B., said Rane, Leo assor. to United States of America. Malaria therapy with 2,4,7-triaminopteridine. 3,423,509, 1-21-69, Cl. 424-251.
Osdene, Thomas S.: *See*—
Santilli, Arthur A.; and Osdene, Thomas S.,3,452,037.
Santilli, Arthur A.; and Osdene, Thomas S.,3,457,258.
Ose, Shinsuke: *See*—
Ueno, Hakaru; and Ose, Shinsuke,3,463,853.
Oser, George T.: *See*—
Blythe, Richard; Marshall, Alvin E.; Mitchell, Claybourne, Jr.; Oser, George T.; and Scott, Gerald C.,3,448,267.
Oser, Jorg, to Binder and Company. Oscillatory working machine. 3,467,241, 9-16-69, Cl. 198-220.
Oser, William E.: *See*—
Mabrey, David W.; Pratt, Ivor; Oser, William E.; and Hahn, Kenneth G.,3,453,345.
Oser, Zalik: *See*—
Barton, Oliver A.; Griffin, William D.; Lund, Richard B.; Vitrone, John; and Oser, Zalik,3,483,164.
Osgan, Maseh; Silly, Jean-Pierre; and Teyssie, Philippe, to Institut Francais du Petrole, des Carburants et Lubrifiants. Catalyst compositions based on bivalent metals and the application thereof, particularly for the polymerization of cyclic ethers. 3,432,445, 3-11-69, Cl. 260-2.
Osgan, Maseh: *See*—
Maguet-Martin, Francoise; Osgan, Maseh; and Teyssie, Pilippe,3,427,260.
Osgood, Richard B., to Hewlett-Packard Company. Retaining apparatus for an ultrasonic coupling medium. 3,431,440, 3-4-69, Cl. 310-8.1
O'Shaughnessy, Lawrence P.; and Cooper, Charles M., to Mondar, Inc. Modular wall construction. 3,466,821, 9-16-69, Cl. 52-204.
O'Shea, Christopher J.; Quinn, Richard; and Johnson, Donald S., Jr., to Ball Brothers Research Corporation. Apparatus for determining wall thickness utilizing radiation absorption. 3,426,196, 2-4-69, Cl. 250-71.5
O'Shea, Donald T. Goggles. 3,440,662, 4-29-69, Cl. 2-14.
Osher, Benjamin B., to Kleer-Vu Industries, Inc. Card holder for wallets. 3,446,260, 5-27-69, Cl. 150-39.
Osher, Benjamin B., to Kleer-Vu Industries, Inc. Method of making artificial eyelashes using ultrasonic means. 3,447,540, 6-3-69, Cl. 132-5.
Osher, Benjamin B.; and Mascolo, Benjamin R., to Kleer-Vu Industries, Inc. Wallet insert with multiple pockets. 3,483,909, 12-16-69, Cl. 150-39.
Oshida, Otto A.; Gilmore, John P.; and Lowe, James H., to Grefco, Inc. Method for manufacturing improved perlite filteraid products. 3,441,515, 4-29-69, Cl. 252-455.
Oshima, Akio; Sakurai, Shinichi; and Matsuo, Tetsuo, to Kanegafuchi Chemical Industry Co., Ltd. Method of preventing the formation of popcorn polymer of chloroprene. 3,461,179, 8-12-69, Cl. 260-652.5
Oshima, Masanao, to Mitsui Shipbuilding & Engineering Co., Inc. Container storing apparatus for container ship. 3,452,699, 7-1-69, Cl. 114-72.
Oshima, Masanao, to Mitsui Shipbuilding & Engineering Co., Ltd. Shifting board setting apparatus for container ship. 3,463,110, 8-26-69, Cl. 114-75.
Oshima, Masanao, to Mitsui Shipbuilding & Engineering Co., Ltd. Container storing apparatus for container ship. 3,467,044, 9-16-69, Cl. 114-72.
Oshima, Shintaro, to Kokusai Denshin Denwa Kabushiki Kaisha. Electrical pin connectors. 3,427,551, 2-11-69, Cl. 339-47.
Oshima, Shintaro; Futami, Kakuo; Fukui, Takasuke; Kamibayashi, Tetsusaburo; and Komazawa, Yoshihisa, to Kokusai Denshin Denwa Kabushiki Kaisha. Apparatus to deposit a ferromagnetic film on a conductive wire. 3,441,494, 4-29-69, Cl. 204-228.
Oshima, Shintaro; and Kamibayashi, Tetsusaburo, to Kokusai Denshin Denwa Kabushiki Kaisha, (also known as Kokusai Denshin Denwa Co., Ltd.). Woven wire memory matrix. 3,428,955, 2-18-69, Cl. 340-174.
Oshima, Shintaro; and Kamibayashi, Tetsusaburo, to Kokusai Denshin Denwa Kabushiki Kaisha. Oscillation circuits controlled with ferromagnetic thin films. 3,432,681, 3-11-69, Cl. 307-88.
Oshima, Shintaro; Kamibayashi, Tetsusaburo; and Amano, Kitsutaro, to Kokusai Denshin Denwa Kabushiki Kaisha. Parametron using hollow tubular ferromagetic thin film cores. 3,440,436, 4-22-69, Cl. 307-88.
Oshima, Shintaro; Nakagome, Yukio; and Fukata, Yasuo, to Kokusai Denshin Denwa Kabushiki Kaisha. Time-division synchronous system for a plurality of synchronous telegraph circuits. 3,476,878, 11-4-69, Cl. 178-50.
Oshima, Yasuhiro. Manufacturing method of partly colored and patterned lace works made of thermoplastic synthetic resin. 3,441,635, 4-29-69, Cl. 264-166.
Oshima, Yasuo: *See*—
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru,3,426,023.
Oshima, Yasuyoshi; and Eto, Morifusa, to Sumitomo Chemical Company, Ltd. Cyclic phosphate esters and process for producing same. 3,478,133, 11-11-69, Cl. 260-937.
Oshman, Malin Kenneth; and Harris, Stephen E., to Sylvania Electric Products Inc. Laser frequency stabilization. 3,431,514, 3-4-69, Cl. 331-94.5
Osika, Thomas F., to McGill Manufacturing Company, Inc. Electrical switch having pressure contacts. 3,482,064, 12-2-69, Cl. 200-16.
Osipow, Lloyd I.; and Marra, Dorothea, to Patterson, C. J., Company. Stable gelled alcohol compositions containing sodium acyl lactylates. 3,472,940, 10-14-69, Cl. 424-365.
Osipow, Lloyd I.; and Rosenblatt, William, to States of Nebraska, The. Esterification of polyhydric compounds in the presence of transparent emulsifying agent. 3,480,616, 11-25-69, Cl. 260-234.

Osjagin, Jury Semenovich: *See—*
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich; Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich,3,430,150.
Oskam, Willem; and van Dijk, Jacobus Wilhelmus, to Magneet Rijwielen-en Motorenfabriek N.V. Foldable or knockdown bicycle arrangement. 3,427,043, 2-11-69, Cl. 280-278.
Oskar Vierling: *See—*
Bruckner, Egon; and Westerboer, Ingo, 3,435,676.
Oskolsky, Asaf Alexandrovich; Ivashkov, Nikolai Melitonovich; Rastorguev, Vladislav Vladimirovich; Shmuilov, Nikolai Leonidovich; and Zhavoronkov, Lev Vasilievich. Shallow-draught vessel. 3,426,717, 2-11-69, Cl. 114-62.
Oslebo, Richard G.; Newton, Robert F.; and Jacobson, Alden H., to Heald Machine Company, The. Machine tool. 3,458,924, 8-5-69, Cl. 29-568.
Oslund, Roger I., to Teletype Corporation. Synchronizing mechanism for encrypting telegraph transmitter. 3,479,456, 11-18-69, Cl. 178-22.
Osmalov, Jerome S.: *See—*
Larson, Welsey S.; Panicci, Richard L.; Thomson, Richard N.; and Osmalov, Jerome S.,3,466,213.
Osman, Martin S.: *See—*
Addis, David J.; Brown, Walter R. J.; and Osman, Martin S.,3,480,924.
Osmond, George. Signal, especially for traffic and vehicle control. 3,431,553, 3-4-69, Cl. 340-31.
Osojnak, Boris M., to Automation Devices, Inc. Sealing ring. 3,424,303, 1-28-69, Cl. 206-53.
Osojnak, Boris M., to Engineered Date Products, Inc. Reel storage apparatus. 3,472,386, 10-14-69, Cl. 211-40.
Osovitz, Eugene E.: *See—*
Zysk, Edward D.; Osovitz, Eugene E.; and Stephans, Robert W.,3,451,859.
Osozawa, Koichiro: *See—*
Kawahata, Masao; Fukase, Yukishige; and Osozawa, Koichiro,3,438,769.
Ospelt, Gustav, Hovalwerk AG: *See—*
Ospelt, Gustav; Vogt, Alfred; and Gutmann, Hellmut, 3,460,519.
Ospelt, Gustav; Vogt, Alfred; and Gutmann, Hellmut, to Ospelt, Gustav, Hovalwerk AG. Boiler for firing liquid or gaseous fuel. 3,460,519, 8-12-69, Cl. 122-149.
Osrow, Harold, to Osrow Products Company, Inc. Pressurized container with cap having suspension means for display purposes. 3,428,220, 2-18-69, Cl. 222-153.
Osrow Products Company, Inc.: *See—*
Osrow, Harold, 3,428,220.
Ossanna, Oliver A.: *See—*
Brynko, Carl; and Ossanna, Oliver A.,3,445,225.
Ostapiak, Daria M.: *See—*
Port, William S.; and Ostapiak, Daria M.,3,437,642.
Ostarly, Adam R., to Global Divers and Contractors, Inc. Anchoring machine. 3,479,830, 11-25-69, Cl. 61-72.3
Ostberg, Werner; and Patzias, Terry, to Dundee Cement Company. Process for forming special cements. 3,437,329, 4-8-69, Cl. 263-53.
Ostby, Marvin E., to Cutler-Hammer, Inc. Electromagnetic switching device. 3,453,569, 7-1-69, Cl. 335-132.
Osteen, Emmett H. Mercury safety switch for vehicles. 3,478,183, 11-11-69, Cl. 200-61.47
Osteen, Mitchell M.: *See—*
Nuckolls, Joe A.; and Osteen, Mitchell M.,3,483,430.
Osten, Fred C., Sr. Self-locking removable sash window installation. 3,473,263, 10-21-69, Cl. 49-161.
Ostenson, Donald O.: *See—*
Detwiller, Ronald H.; Ostenson, Donald O.; and Weispfenning, Walter W.,3,483,930.
Oster, Earl A., to Environ, Inc., mesne. Scrap recovery process. 3,429,022, 2-25-69, Cl. 29-403.
Oster, Eugene A.; Miekka, Richard G.; and Maget, Henri J. R., to General Electric Company. Deposition of catalytic noble metals. 3,423,228, 1-21-69, Cl. 117-47.
Oster, Gerald, to United States of America, Atomic Energy Commission. Chemical dosimeter. 3,461,288, 8-12-69, Cl. 250-83.
Oster, John, Manufacturing Co.: *See—*
Edwards, Margaret M.; and Cockroft, James B., 3,420,969.
Schafer, Curtiss R., 3,469,398.
Oster, Thomas H., to Ford Motor Company. Pickling process. 3,423,240, 1-21-69, Cl. 134-3.
Osterberg, Carl A.: *See—*
De Rossi, Frank; and Osterberg, Carl A.,3,473,951.
Osterberg, Carl T., to Vollmar, Harold J., mesne. Extensible double wand. 3,442,247, 5-6-69, Cl. 116-63.
Osterberg, Harold, to American Optical Company. Apparatus including guide plate means and multiple internal reflective prism means for launching and transmitting surface-guided optical waves. 3,420,596, 1-7-69, Cl. 350-96.
Osterdahl, Ragnar, to Arenco Aktiebolag. Feeding out device in a cigarette packeting machine. 3,479,794, 11-25-69, Cl. 53-151.
Ostergren, Arthur G.; and Salce, Luigi C. Apparatus for bending locking tabs and the like. 3,440,706, 4-29-69, Cl. 29-243.5
Osterhage, Bernard H., to Anchor Hocking Glass Corporation. Friction member for container sealing machine. 3,427,785, 2-18-69, Cl. 53-331.5
Osterhaug, John E.: *See—*
Leyde, Warren L.; Osterhaug, John E.; and Thomasson, Leland T.,3,443,123.
Osterholm, Charles D. Arrow quiver and bow holder. 3,465,928, 9-9-69, Cl. 224-1.
Osterholtz, Carl E., to Bethlehem Steel Corporation. Graphite bearing high MgO mortar. 3,442,669, 5-6-69, Cl. 106-56.
Osterholz, Manfred, to Storen- und Maschinenfabrik Emil Schenker AG. Blind for windows or the like. 3,463,219, 8-26-69, Cl. 160-172.
Osterman, Harry F.: *See—*
Erhardt, John E.; Hirtle, Kenneth S.; and Osterman, Harry F.,3,425,533.
Osterman, Joseph, to Combustion Engineering, Inc. Combination refuse and sewage disposal system. 3,472,186, 10-14-69, Cl. 110-8.
Ostermay, Gottfried: *See—*
Forste, Walter; and Ostermay, Gottfried,3,473,062.
Forste, Walter; and Ostermay, Gottfried,3,473,063.
Ostermayer, Franz: *See—*
Taub, William; Denss, Rolf; and Ostermayer, Franz,3,459,865.
Ostermeier, Claus, to Sickinger, Hans, Co. Spiral binder applying machine. 3,467,150, 9-16-69, Cl. 140-92.94
Ostermeyer, Jurgen, to Rheinstahl Henschel A.G. Gas turbine powerplant for a locomotive. 3,457,877, 7-29-69, Cl. 105-61.5
Osterreicher, Wolfgang: *See—*
Bucher, Erich; Osterreicher, Wolfgang; and Mahlmann, Werner,3,426,520.
Osterreichisch-Amerikanische Magnesit Aktiengesellschaft: *See—*
Maier, Kurt Maria; Mayer, Viktor; Mortl, Gunther Lorenz; and Skalla, Norbert Franz, 3,429,723.
Osterreichische Stickstoffwerke Aktiengesellschaft: *See—*
Hollinger, Roderich; and Wendtlandt, Wolf, 3,433,804.
Hollinger, Roderich; and Wendtlandt, Wolf, 3,441,602.
Muller, Walter; Schweighofer, Johann; and Weinrotter, Ferdinand, 3,449,385.
Niedetzky, Johann; and Hinrichs, Helmut, 3,440,021.
Obendorf, Werner; and Lindner, Irmgard, 3,453,322.
Obendorf, Werner; and Lindner, Irmgard, 3,484,481.
Weinrotter, Ferdinand; Schmidt, Alfred; Muller, Walter; and Bohler, Walter, 3,432,501.
Osterreichische Studiengesellschaft fur Atomenergie Ges. m.b.H.: *See—*
Bildstein, Hubert; Stolba, Gerhard; and Knotik, Karl, 3,424,564.
Bildstein, Hubert; Knotik, Karl; and Stolba, Gerhard, 3,468,985.
Knotik, Karl; Leichter, Peter; and Wagner, Harald, 3,453,091.
Knotik, Karl; Koss, Peter; and Markl, Heinz, 3,472,922.
Osterrieth, Michel; and Voituron, Georges, to Solvay & Cie. Stabilized compositions of polyolefins containing surface active agents and phenols. 3,476,698, 11-4-69, Cl. 260-23.
Ostertag, Karl: *See—*
Arnold, Walter; and Ostertag, Karl,3,423,497.
Schippers, Heinz; and Ostertag, Karl,3,466,357.
Ostertag, Werner; and Strnat, Karl J., to United States of America, Air Force. Magnetic rare earth-cobalt alloys. 3,421,889, 1-14-69, Cl. 75-170.
Ostertag, Werner: *See—*
Strnat, Karl J.; Hoffer, Gary I.; Ostertag, Werner; and Olson, John C.,3,424,578.
Osterwalder, Jean-Pierre F. Marine propulsion system. 3,435,800, 4-1-69, Cl. 115-28.
Osteryoung, Robert A.: *See—*
Hansen, Wilford N.; and Osteryoung, Robert A.,3,476,460.
Ostler, Josef: *See—*
Bschorer, Konrad; Muller, Johann; and Ostler, Josef,3,465,642.
Ostlie, Dean A., to Minnesota Mining and Manufacturing Company. Impact marking carbonless paper. 3,481,759, 12-2-69, Cl. 117-36.2
Ostling, Edward J.; Gavinski, Frank R.; and Welch, Philip C., to Modular Systems, Inc. Furniture construction having yieldable recessed fastening means. 3,451,362, 6-24-69, Cl. 108-60.
Ostnas, Lars-Olor Lennart, to AB Tolu. Arrangement for cleaning gratings, grids, racks, etc.. 3,482,698, 12-9-69, Cl. 210-159.
Ostrander, George W.: *See—*
Pendleton, Wesley W.; and Ostrander, George W.,3,442,702.
Pendleton, Wesley W.; and Ostrander, George W.,3,464,836.
Ostrander, George W.; and Pendleton, Wesley W., to Anaconda Wire and Cable Company. Method of making high-temperature encapsulated apparatus. 3,425,121, 2-4-69, Cl. 29-605.
Ostrander, John M.: *See—*
Valliere, Edward G.; and Ostrander, John M.,3,445,766.
Ostrander, Kenneth A.: *See—*
Foster, George B.; and Ostrander, Kenneth A.,3,455,148.

Foster, George B.; and Ostrander, Kenneth A.,3,455,149.
Ostrander, Robert K., Jr., to Fisher-Price Toys, Inc. Toy truck and station. 3,421,257, 1-14-69, Cl. 46-202.
Ostrander-Seymour Co.: *See—*
Fink, Robert C., 3,478,192.
Ostreicher, Robert: *See—*
Walz, Alfred; and Ostreicher, Robert,3,454,868.
Ostresh, Harvey Richard: *See—*
Culbertson, Richard; and Ostresh, Harvey Richard,3,476,392.
Ostroff, Harold H.; and Toney, Ernest W., to McDonnell Douglas Corporation, mesne. Pressure induced jet vectoring augmentation apparatus. 3,420,060, 1-7-69, Cl. 60-264.
Ostrofsky, Bernard; and Berman, Jack N., to Standard Oil Company (Indiana). Apparatus for pumping a fluid fed thereto by gravity. 3,435,776, 4-1-69, Cl. 103-188.
Ostrom, Cyrus W., to Consolidated Electric Corporation. Continual tension line-tensioning mechanism. 3,421,736, 1-14-69, Cl. 254-172.
Ostrom, Donald W. Hair piece. 3,472,246, 10-14-69, Cl. 132-53.
Ostrow, Barnet D.; and Nobel, Fred I., to Lea-Ronal, Inc. Carbamate containing acid nickel plating bath. 3,429,789, 2-25-69, Cl. 204-49.
Ostrowski, John S.: *See—*
Baugh, Robert A.; and Ostrowski, John S.,3,475,512.
Baugh, Robert A.; Ostrowski, John S.; and Zwack, Robert R.,3,459,690.
Ostrowski, John S.; and Baugh, Robert A., to PPG Industries, Inc. Ungelled, organic solvent-soluble interpolymers containing benzaldehyde and coating compositions made therefrom. 3,459,691, 8-5-69, Cl. 260-22.
Ostrowski, Leon J., to Dow Corning Corporation. Method utilizing an organopolysiloxane binder to make ceramic article. 3,485,904, 12-23-69, Cl. 264-63.
Ostrowsky, Efrem M., to Miles Laboratories, Inc. Dispensing apparatus. 3,467,286, 9-16-69, Cl. 222-394.
Ostrowsky, Efrem M.; and Tunzi, Joseph P., to Nibot Corporation. Work member positioning structure and combination thereof with a container. 3,471,054, 10-7-69, Cl. 220-55.7
Ostrowsky, Jack. Showerbath apparatus. 3,465,369, 9-9-69, Cl. 4-150.
Ostrozynski, Robert L., to Union Carbide Corporation. Preparation of organopolysiloxanes by siloxane rearrangement. 3,477,988, 11-11-69, Cl. 260-46.5
Ostwald, Fritz, to Teves, Alfred , Maschinen- und Armaturenfabrik KG. Self-adjusting brake mechanism. 3,439,781, 4-22-69, Cl. 188-196.
Ostwald, Fritz; Schmid, Leopold Franz; and Heusinkveld, Walter, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Mechanically operable disk brake. 3,424,278, 1-28-69, Cl. 188-73.
O'Sullivan, Denis J., Jr.:*See—*
Venetos, Matthew A.; and O'Sullivan, Denis J., Jr.,3,483,759.
O'Sullivan Industries, Inc.:*See—*
Bartlett, Ronald K.; and O'Sullivan, Thomas M., 3,479,973.
O'Sullivan, Thomas F., to Lummus Company, The. Manifold system for heaters. 3,460,924, 8-12-69, Cl. 48-126.
O'Sullivan, Thomas M.:*See—*
Bartlett, Ronald K.; and O'Sullivan, Thomas M.,3,479,973.
Oswald, Alexis A., to Esso Research and Engineering Company. Thiol adducts of unsaturated esters and preparation of same. 3,441,589, 4-29-69, Cl. 260-455.
Oswald, Alexis A.: *See—*
Griesbaum, Karl; Oswald, Alexis A.; and Hall, Daniel Noyes,3,449,474.
Mueller, Wolfgang H.; and Oswald, Alexis A.,3,466,336.
Mueller, Wolfgang H.; and Oswald, Alexis A.,3,483,278.
Oswald, Heinrich: *See—*
von Arland, Otto Czerweny; Oswald, Heinrich; and Eitl, Stefan,3,484,102.
Oswald, Hendrikus J.: *See—*
Cawthon, Thomas M.; Schmitt, George J.; Higbee, Allen F.; Pedersen, Jack R.; and Oswald, Hendrikus J.,3,442,975.
Oswald, Hendrikus J.; Turi, Edith; and Lund, Richard B., to Allied Chemical Corporation. Polyolefin stabilizer compositions. 3,425,987, 2-4-69, Cl. 260-45.95
Oswald, Jacques, to CIT-Compagnie Industrielle des Telecommunications. Method and apparatus for the demodulation of electric waves phase-or frequency-modulated by high-speed coded signals. 3,479,457, 11-18-69, Cl. 178-67.
Oswald, James H.: *See—*
Saunders, Frank L.; and Oswald, James H.,3,449,270.
Oswald, John Paul: *See—*
Johnson, Robert Phillip; and Oswald, John Paul,3,448,114.
Johnson, Robert Phillip; and Oswald, John Paul,3,466,293.
Oswald, Joseph: *See—*
Hurst, Paul L.; and Oswald, Joseph,3,430,507.
Oswald, Kenneth J., to Smith, A. O., Inland Inc. Heating device for curing the adhesive joint between plastic pipe sections. 3,484,321, 12-16-69, Cl. 156-499.
Oswald, Walter, to Inventa A.G. fur Forschung und Patentverwertung. 1,3-Bis-(epsilon-carboxyamyl) urea for the treat- ment of serous fluid saturation of the human brain caused by trauma. 3,471,622, 10-7-69, Cl. 424-319.
Oswald, William N., to Standard Manufacturing Company, Inc. Nestable, corrugated forklift and sling pallet. 3,430,586, 3-4-69, Cl. 108-55.
Oswin, Harry G., to Leesona Corporation. Method of chemically regenerating air depolarized cell with hydrogen. 3,479,226, 11-18-69, Cl. 136-86.
Oswin, Harry G.; and Chodosh, Stewart M., to Leesona Corporation. Oxygen depolarized cell and method of producing electricity therewith. 3,436,270, 4-1-69, Cl. 136-86.
Oswin, Harry G.: *See—*
Vertes, Michael A.; and Oswin, Harry G.,3,470,071.
Ota, Shigekazu: *See—*
Toyooka, Tadao; Ota, Shigekazu; and Nishida, Takeo,3,425,020.
Ota, Zenji: *See—*
Sano, Ryuichi; and Ota, Zenji,3,437,574.
Otake, Minoru: *See—*
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Otake, Minoru,3,461,786.
O'Tallamhain, Colm:*See—*
Bilsborough, Roy; and O'Tallamhain, Colm,3,453,177.
Otani, Kanji. Apparatus for the extrusion of plastics. 3,467,743, 9-16-69, Cl. 264-176.
Otani, Sugio; Fukuoka, Yoshihiko; Igarashi, Bunjiro; and Sasaki, Kesao, to Nippon Kayaku Kabushiki Kaisha. Method for producing carbonized lignin fiber. 3,461,082, 8-12-69, Cl. 252-421.
Otani, Tetsuro: *See—*
Uchimaru, Kiyoshi; and Otani, Tetsuro,3,423,632.
Otepka, Rudolph T.; and Stout, Arthur G., to Web Press Engineering, Inc. Web positioner bar. 3,448,907, 6-10-69, Cl. 226-97.
Otey, Felix H.: *See—*
Zagoren, Bonnie L.; Otey, Felix H.; and Mehltretter, Charles L.,3,433,752.
Otey, Glen R.: *See—*
Lasaine, Alfred D.; Mattson, Terrance W.; Moore, Clifford William; and Otey, Glen R.,3,438,345.
Othmer, Donald F. Method for producing pure water from sea water and other solutions by flash vaporization and condensation. 3,446,712, 5-27-69, Cl. 203-11.
Otis Elevator Company: *See—*
Bruns, William Henry, 3,422,928.
Krauer, Otto Albert; Voigt, Herbert Frederick; and Schor, Harvey Ronald, 3,433,326.
Krauer, Otto Albert; and Benjamin, Sidney Howard, 3,442,352.
Krauer, Otto Albert; and Benjamin, Sidney Howard, 3,470,438.
Mahon, Joseph Peter; and Mishko, Bohdan, 3,474,383.
Pinto, Anthony; Cornish, Arthur H.; Leonard, Eugene; Wolf, Edgar; and Lau, Edward H., 3,441,713.
Schroder, Joris Theodor; and Dube, Gerd-Gunther, 3,469,678.
Stainken, Henry August, 3,428,878.
Thorne, Benjamin Graham; Lyons, Harold James; and Dingfeld, Albert Vincent, 3,441,107.
Tucker, Benjamin Whitehead, Jr., 3,477,177.
Otis Engineering Corporation: *See—*
Alexander, Alvis H.; Duplantis, John C.; and Strong, George T., 3,420,305.
Bostock, James H.; and Pierce, Phillip E., 3,427,989.
Bostock, James H., 3,454,085.
Brown, Norman F.; Tamplen, Jack W.; and Meaux, Dudley Joseph, 3,420,095.
Brown, Norman F., 3,420,928.
Canalizo, Carlos R., 3,426,786.
Canalizo, Carlos R., 3,476,135.
Canalizo, Carlos R., 3,478,645.
Dollison, William W., 3,426,845.
Dollison, William W., 3,459,260.
Dollison, William W., 3,481,362.
Dowden, Sanford R., 3,467,185.
Fredd, John V., 3,428,346.
Fredd, John V., 3,441,084.
Fredd, John V., 3,444,783.
Fredd, John V., 3,454,029.
Sizer, Phillip S., 3,448,803.
Sizer, Phillip S., 3,454,084.
Sizer, Phillip S.; and Taylor, Frank H., 3,481,395.
Spencer, Larry K., 3,435,843.
Young, Carter R., 3,467,184.
Otken, Edwin J., to Good Humor Corporation. Apparatus for making frozen comestibles. 3,468,265, 9-23-69, Cl. 107-1.
Otoguro, Yasuo: *See—*
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi,3,459,538.
Otohata, Etsuo: *See—*
Furusawa, Yutaka; and Otohata, Etsuo,3,486,865.
Goto, Michio; Takahashi, Yutaro; and Otohata, Etsuo,3,458,482.
Otrhalek, Joseph V.: *See—*
Duvall, Jacque L.; and Otrhalek, Joseph V.,3,458,300.

Otrhalek, Joseph V., to Wyandotte Chemicals Corporation. Porous mineral carrier impregnated with a nitrogen fertilizer. 3,441,400, 4-29-69, Cl. 71-54.
Otrhalek, Joseph V.; and Luoma, Paul E., to Wyandotte Chemicals Corporation. Composition and process for lightweight surfactant products. 3,425,948, 2-4-69, Cl. 252-161.
Otrhalek, Joseph V.; and Luoma, Paul E., to Wyandotte Chemicals Corporation. Alkali metal hydroxide-containing agglomerates. 3,441,511, 4-29-69, Cl. 252-156.
Otstot, James L., to Carlisle Tire and Rubber, division of Carlisle Corp. Apparatus for wrapping wire and overlay of tape around and along the length of an extended core. 3,438,831, 4-15-69, Cl. 156-368.
Otstot, Roger S.; Bland, Durwood Gene; and Meeks, James W., to Monsanto Company. Method for machining with laser beam. 3,440,388, 4-22-69, Cl. 219-69.
Otstot, Roger S.; and Carter, Ernest P., to Monsanto Company. Filament extrusion apparatus. 3,453,688, 7-8-69, Cl. 18-8.
Otsu, Takayuki; and Nakata, Tadashi, to Shionogi & Co., Ltd. Polymerization process for olefinically unsaturated monomers with metal peroxide initiators. 3,474,461, 10-21-69, Cl. 260-92.8
Otsubo, Hideo: *See—*
Hida, Naoto; Kaiden, Muneyuki; Muraoka, Noboru; and Otsubo, Hideo,3,456,405.
Otsuka Chemical Co., Ltd.: *See—*
Otsuka, Masatomi; Koumura, Seizo; Yamaguchi, Hideo; and Kume, Hidetoshi, 3,481,701.
Otsuka, Eiji; Inoue, Shigeru; and Kanai, Kazumichi, to Toyo Koatsu Industries, Incorporated. Treatment of unreacted substances in urea synthesis. 3,436,317, 4-1-69, Cl. 203-42.
Otsuka, Hideo: *See—*
Sugiyama, Hiroshi; Yamamoto, Masakazu; and Otsuka, Hideo,3,483,182.
Otsuka Kagakuyakuhin Kabushiki Kaisha: *See—*
Otsuka, Masatomi; Koumura, Seizo; Yamaguchi, Hideo; and Kume, Hidetoshi, 3,481,701.
Otsuka, Masatomi; Koumura, Seizo; Yamaguchi, Hideo; and Kume, Hidetoshi, to Otsuka Kagakuyakuhin Kabushiki Kaisha, a/k/a Otsuka Chemical Co., Ltd. Manufacturing process of hydrazine hydrate. 3,481,701, 12-2-69, Cl. 23-190.
Otsuka, Naotoshi: *See—*
Nozawa, Masayuki; Ito, Toshinori; Hayashi, Shingo; and Otsuka, Naotoshi,3,427,912.
Otsuka, Susumu Paul, to Litton Precision Products, Inc. Sole structure with R-F suppressors. 3,462,637, 8-19-69, Cl. 315-3.5
Otsuki, Yutaka: *See—*
Miyoshi, Mitsuji; Imai, Hirosuke; Otsuki, Yutaka; and Hara, Hajime,3,483,176.
Ott, A., G.m.b.H.: *See—*
Vahs, Wilhelm A.; and Noissinger, Werner, 3,427,632.
Ott, Carl A., to Over-Lowe Company, Inc. Space ventilating and heating apparatus. 3,435,817, 4-1-69, Cl. 126-110.
Ott, Edward A.: *See—*
Wilmanns, Frederick A.; and Ott, Edward A.,3,470,630.
Ott, Eugene G.: *See—*
Hudson, Lester S.; and Ott, Eugene G.,3,461,983.
Ott, Hans: *See—*
Galantay, Eugene E.; and Ott, Hans,3,424,796.
Hardtmann, Goetz E.; and Ott, Hans,3,435,038.
Hardtmann, Goetz E.; and Ott, Hans,3,435,040.
Hardtmann, Goetz E.; and Ott, Hans,3,465,042.
Hardtmann, Goetz E.; and Ott, Hans,3,470,182.
Ott, Hans, to Sandoz, Inc. Tetrahydroisoquinolines. 3,420,818, 1-7-69, Cl. 260-239.3
Ott, Hans, to Sandoz Inc.Certain 7-(2-aminophenyl)-4,5-dihydro thiens [2,3-C] pyridines and derivatives thereof. 3,433,794, 3-18-69, Cl. 260-294.8
Ott, Hans, to Sandoz Inc. 4-Substituted-3,4-dihydroquinazolines. 3,470,179, 9-30-69, Cl. 260-251.
Ott, Hans, to Sandoz Inc. 1-Phenyl-3,4-di-and 1,2,3,4-tetrahydroisoquinolines. 3,474,104, 10-21-69, Cl. 260-287.
Ott, Hans, to Sandoz Inc. 3-Carbalkoxymethyl and 3-carboxymethyl-4- phenyl-quinazolines. 3,480,629, 11-25-69, Cl. 260-251.
Ott, Heinrich: *See—*
Ehrhart, Gustav; Gericke, Dietmar; and Ott, Heinrich,3,468,952.
Ehrhart, Gustav; Lindner, Ernst; and Ott, Heinrich,3,475,482.
Ehrhart, Gustav; Ther, Leopold; Alpermann, Hans-Georg; and Ott, Heinrich,3,426,028.
Ott, Herbert, LEWA: *See—*
Vetter, Gerhard, 3,433,161.
Ott, Jack J.: *See—*
Foerster, George S.; and Ott, Jack J.,3,481,732.
Ott, Karl-Heinz; Knapp, Karl-Heinrich; Dinges, Karl; and Rochr, Harry, to Farbenfabriken Bayer Aktiengesellschaft. Thermoplastic-elastic moulding compositions with improved notched bar impact strength. 3,442,979, 5-6-69, Cl. 260-880.
Ott, Karl-Heinz: *See—*
Ebneth, Harold; Baer, Heinrich; and Ott, Karl-Heinz,3,450,794.
Ott, Lawrence H.: *See—*
Giangualano, Michael N.; Martenson, Irvin W.; and Ott, Lawrence H.,3,462,267.
Ott, Norman C.; and Arnold, Douglas, to Sargent & Company. Multipiston pressure cylinder for tools. 3,485,141, 12-23-69, Cl. 91-411.
Ott, Richard H.: *See—*
Hoeltzel, Frederic E.; and Ott, Richard H.,3,468,144.
Ott, Richard J., to Respond Inc. Die lubricant spraying apparatus. 3,463,399, 8-26-69, Cl. 239-186.
Ott, Victor. Measuring instrument. 3,422,541, 1-21-69, Cl. 33-158.
Ott, Walter, to Sulzer Brothers Limited. Steam generator firing system and method of controlling same. 3,438,346, 4-15-69, Cl. 110-28.
Ott, Walter. Decorative washer. 3,485,134, 12-23-69, Cl. 85-55.
Ott, Walter; and Bigglestone, Edwin J. Reinforcing rod spacer. 3,449,882, 6-17-69, Cl. 52-689.
Ott, Willi: *See—*
Lenz, Hans-Joachim; and Ott, Willi,3,483,048.
Ottaway, James N.: *See—*
Oita, Katashi; Pierson, Darrell E.; Ottaway, James N.; and Caster, Richard W.,3,428,024.
Otte, George E.: *See—*
Beecher, Donald J.; and Otte, George E.,3,453,659.
Otteman, Lloyd G.; and Geer, Ronald L., to Shell Oil Company. Method and apparatus for connecting an underwater pipeline to an offshore installation. 3,434,296, 3-25-69, Cl. 61-72.3
Otten, Gerhard; Halder, Rudolf; and Schreiber, Horst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method for the manufacture of alkali metal salts of aromatic hydroxy compounds. 3,426,083, 2-4-69, Cl. 260-628.
Otten, Philip Seiter, to Baldwin-Lima-Hamilton Corporation. Condenser tube bundles. 3,422,884, 1-21-69, Cl. 165-67.
Ottenheym, Johannes H.; Thoma, Jozef A.; and Gregoire, Johannes H.C.M.A., to Stamicarbon N.V. Preparation of 7-amino-4-thia-oenanthic acid. 3,476,665, 11-4-69, Cl. 204-158.
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B., to United Aircraft Corporation. Thermomagnetic transfer of heat through a superconductor. 3,421,330, 1-14-69, Cl. 62-3.
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B., to United Aircraft Corporation. Thermomagnetic generation of power in a superconductor. 3,478,230, 11-11-69, Cl. 310-4.
Otterbach, Gerd; Grafe, Wolfgang; and Kessler, Reinhard, to Fichtel & Sachs A.G. Reversing clutches with dual operators. 3,424,286, 1-28-69, Cl. 192-51.
Otteson, Albert J.: *See—*
Albright, Donald R.; Shartrand, Allan C.; and Otteson, Albert J.,3,441,758.
Otteson, Christian S.: *See—*
Ettinger, James P.; and Otteson, Christian S.,3,483,433.
Ottina, Luigi. Centrally supported guard for an electric dry shaver. 3,422,530, 1-21-69, Cl. 30-43.6
Ottinger, August F.; and Graham, Paul R., to Monsanto Company. Modifying starches. 3,436,309, 4-1-69, Cl. 195-31.
Ottinger, August F.: *See—*
Graham, Paul R.; and Ottinger, August F.,3,468,823.
Ottmann, Gerhard F.; and Gavin, David F., to Olin Mathieson Chemical Corporation. Process for preparing phenothiazine. 3,470,169, 9-30-69, Cl. 260-243.
Ottmann, Gerhard F.; and Hooks, Haywood, Jr., to Olin Mathieson Chemical Corporation. Substituted imino-1,3-oxathiols and their preparation. 3,433,803, 3-18-69, Cl. 260-327.
Ottmann, Gerhard F.; and Hooks, Haywood, Jr., to Olin Mathieson Chemical Corporation. Process for preparing S-(2-chloroethyl) thiocarbamates from S-(2-chloroethyl) isothiocarbamyl chlorides. 3,441,590, 4-29-69, Cl. 260-455.
Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F., to Olin Mathieson Chemical Corporation. Process for preparing aromatic isocyanates. 3,481,967, 12-2-69, Cl. 260-453.
Ottmann, Gerhard F.; Kober, Ehrenfried H.; and Gavin, David F., to Olin Mathieson Chemical Corporation. Preparation of halogenated aromatic isocyanates. 3,481,968, 12-2-69, Cl. 260-453.
Ottmann, Gerhard F.: *See—*
Gavin, David F.; and Ottmann, Gerhard F.,3,441,622.
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F.,3,450,799.
Kober, Ehrenfried H.; Lederle, Henry F.; and Ottmann, Gerhard F.,3,462,518.
Kober, Ehrenfried H.; Ottmann, Gerhard F.; and Hooks, Haywood, Jr.,3,480,672.
Ottmuller, Gert; and Jester, Wilhelm. Drying peat. 3,449,837, 6-17-69, Cl. 34-57.
Otto, Bernard: *See—*
Brown, Ellis M.; Loper, George B.; and Otto, Bernard,3,468,396.
Otto, Bernard, to Mobil Oil Corporation. Repetitive pneumatic acoustic source for marine seismic surveying. 3,467,984, 9-23-69, Cl. 181-0.5
Otto, Bruce M., to Standard Oil Company (Indiana). Fuel oil compositions. 3,447,915, 6-3-69, Cl. 44-62.
Otto, C.& Company GmbH: *See—*
Schon, Erich F., 3,471,999.
Otto, C. Dr., & Comp. G.m.b.H.: *See—*
Wolff, Heinz, 3,448,014.

Otto Construction Corporation: *See—*
Becker-Boost, Erich Heinz; Gross, Otto; and Bill, Walter Heinrich, 3,427,253.
Schon, Erich F., 3,451,896.
Otto, Edward C.; and Flechner, Irving, to Sperry Rand Corporation. Method for producing a planographic printing plate. 3,437,034, 4-8-69, Cl. 101-463.
Otto, Ferdinand P.: *See—*
Herd, Richard S.; and Otto, Ferdinand P.,3,446,736.
Otto, Ferdinand P.; and Herd, Richard S., to Mobil Oil Corporation. Overbased metal sulfonate complexes and minerals oil compositions containing the same. 3,436,347, 4-1-69, Cl. 252-33.3
Otto, Ferdinand P.; and Logothetis, Andreas, to Mobil Oil Corporation. Detergent compositions. 3,445,386, 5-20-69, Cl. 252-32.7
Otto, Frei; and Nerlich, Rolf, to Steffens & Noelle Aktiengesellschaft. Open-work assembly and girder therefor. 3,474,588, 10-28-69, Cl. 52-650.
Otto, Fritz, to Belder Trust, mesne. Comminuting device. 3,429,350, 2-25-69, Cl. 146-192.
Otto, Fritz, to Belder Trust, mesne. Comminuting apparatus. 3,443,614, 5-13-69, Cl. 146-192.
Otto, Fritz, to Belder Trust, mesne. Apparatus for comminuting meat or the like. 3,450,181, 6-17-69, Cl. 146-192.
Otto, Hans-Dietrich: *See—*
Grunwald, Georg; Otto, Hans-Dietrich; and Borgwaldt, Heinz-Erik Bernhard Daniel,3,424,170.
Otto, Howard R., to United Aircraft Products, Inc. Heat exchange assembly. 3,461,956, 8-19-69, Cl. 165-166.
Otto, John C.; and Gruver, Albert L., to Jones & Laughlin Steel Corporation. Swaged rope. 3,457,718, 7-29-69, Cl. 57-161.
Otto, John R.; and Pidcock, Herbert A., to Essex Manufacturing Co., Inc. Fluid operated switch. 3,449,535, 6-10-69, Cl. 200-82.
Otto, Julian A.: *See—*
Newallis, Peter E.; Otto, Julian A.; and Lombardo, Pasquale,3,445,507.
Otto, Mark Shmulievich: *See—*
Korenbljum, Moisei Vladimirovich; and Otto, Mark Shmulievich,3,487,262.
Otto, Noel A., to Automatic Switch Company. Self-holding nut for wall of enclosure. 3,430,991, 3-4-69, Cl. 285-206.
Otto, Robert J.: *See—*
Sinclair, Alex H.; and Otto, Robert J.,3,459,439.
Otto, Walter J.: *See—*
Englesberg, Julius L.; Krell, Alfred; and Otto, Walter J.,3,420,184.
Otto, William C., to Mallory, P. R., & Co., Inc. Inductor coil and bobbin with terminals. 3,445,797, 5-20-69, Cl. 336-192.
Otto, Wolfgang K. F., to Ashland Oil & Refining Company. Process for production of metal bearing carbon black. 3,431,205, 3-4-69, Cl. 252-62.55
Otto, Wolfgang K. F., to Ashland Oil & Refining Company. Magnetic carbon blacks. 3,448,052, 6-3-69, Cl. 252-62.51
Otto, Wolfgang K. F., to Deering Milliken Research Corporation. Trousers and process for improving shape retention during cleaning. 3,466,666, 9-16-69, Cl. 2-227.
Ottobre, Louis G.: *See—*
Milberger, Walter E.; and Ottobre, Louis G.,3,449,596.
Ottosson, Par A. R. Parquet floorboard. 3,436,888, 4-8-69, Cl. 52-480.
Ottosson, Par Axel Rune, to Kahrs Maskiner Aktiebolag. Method and plant for treating lumber. 3,459,246, 8-5-69, Cl. 144-312.
Otzipka, Willi; and Mally, Joachim, to Licentia Patent-Verwaltungs-G.m.b.H. Brushless D.C. motor control. 3,476,997, 11-4-69, Cl. 318-138.
Otzipka, Willi: *See—*
Moczala, Helmut; and Otzipka, Willi,3,452,262.
Oualline, Charles M., Jr.; and Wakefield, Gene F., to Texas Instruments, Incorporated. Vapor coating aluminum on iron-containing substrate. 3,471,321, 10-7-69, Cl. 117-102.
Ouano, Augustus C., to Dart Industries, Inc. Method and apparatus for chromatographic analysis. 3,458,437, 7-29-69, Cl. 210-31.
Ouchi, Hiromu: *See—*
Hayakawa, Shigeru; Ouchi, Hiromu; and Nagase, Kaneomi,3,449,253.
Ouchi, Hiromu; and Nishida, Masamitsu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic compositions. 3,425,944, 2-4-69, Cl. 252-62.9
Ouchi, Horomu; and Nishida, Masamitsu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic materials. 3,424,686, 1-28-69, Cl. 252-62.9
Ouchi, Shunji; Sowa, Tuneo; Tunoda, Kozo; and Senoo, Saburo, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for selective phosphorylation of nucleoside. 3,464,973, 9-2-69, Cl. 260-211.5
Ouchi, Shunji; Yamada, Hiraku; Kameyama, Naohito; Kurihara, Masakazu; Senoh, Saburo; and Sowa, Tuneo, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing ribonucleoside-5'-monophosphate. 3,475,409, 10-28-69, Cl. 260-211.5
Ouchi, Shunji: *See—*
Sowa, Tuneo; Sato, Kenji; Ouchi, Shunji; Ohsawa, Takeyoshi; and Senoo, Saburo,3,466,273.
Ouchi, Yutaka: *See—*
Ichikawa, Hiroshi; Kawanishi, Rokuro; and Ouchi, Yutaka,3,485,928.
Ouderkirk, John T.: *See—*
Shepard, Alvin F.; Zimmer, William F.; and Ouderkirk, John T.,3,458,460.
Oudet, Claude; and Lallement, Gerard, to Societe Jaz S. A. Torsion-operated oscillators. 3,431,808, 3-11-69, Cl. 84-457.
Oudet, Claude: *See—*
Fillod, Rene; Lallement, Gerard; and Oudet, Claude,3,460,396.
Ouellette, Chester V.; and Knecht, William A., to Consolidated Electronics Industries Corporation. Alternating current rotary solenoid having a rotor with permanent magnet poles. 3,435,392, 3-25-69, Cl. 335-230.
Ouellette, Clarence P.: *See—*
Volks, Herbert; and Ouellette, Clarence P.,3,468,227.
Ouellette, Marcel C.: *See—*
Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C.,3,461,513.
Ouellette, Phillip E. Fluid pressure operated proportioning transmitter and controller. 3,450,152, 6-17-69, Cl. 137-414.
Ouimet, Delphis Roger, 49% to Lincourt, R. Jean-Paul. Toothpick package. 3,486,611, 12-30-69, Cl. 206-29.
Ourgaud, Janine, to Societe Nationale des Petroles d'Aquitaine. Copolymers of olefines with compounds having a phenanthrene nucleus. 3,442,840, 5-6-69, Cl. 260-27.
Oushiba, Takashi, to Showa Denko Kabushiki Kaisha. Electrolytic method of manufacturing alkali metals. 3,481,844, 12-2-69, Cl. 204-59.
Ousset, Jacques, to Regie Nationale des Usines Renault. Push button handle protection devices. 3,484,128, 12-16-69, Cl. 292-336.3
Outboard Marine Corporation: *See—*
Blanchard, Clarence E., Jr., 3,455,420.
Dahl, Einar S., 3,421,302.
DuBois, Chester, 3,469,825.
Foster, Leslie W., 3,452,617.
Heidner, Richard C.; and Goodwin, Max E., 3,453,812.
Irgens, Finn T., 3,420,041.
Irgens, Finn T., 3,431,882.
Irgens, Finn T., 3,433,498.
Irgens, Finn T., 3,472,563.
Irgens, Finn T., 3,485,217.
Meyer, James A., 3,449,964.
Scheinert, Richard R., 3,445,013.
Shimanckas, William J., 3,447,504.
Shimanckas, William J., 3,467,051.
Shimanckas, William J., 3,478,620.
Trapp, Robert L., 3,446,303.
van Donkelaar, Pieter, 3,466,858.
Watkins, Lucius D., 3,452,704.
Wlezien, Richard A., 3,444,932.
Wulff, William H., 3,466,938.
Outcalt, Dale E. Shut-off valve for flow conduits. 3,482,603, 12-9-69, Cl. 137-515.5
Outlook Engineering Corporation: *See—*
Young, Clinton J. T., 3,451,756.
Outokumpu Oy: *See—*
Bryk, Petri; Honkasalo, Jorma B.; Malmstrom, Rolf; Aaltonen, Olavi; and Palperi, Matti, 3,460,491.
Hukki, Risto Tapani, 3,428,175.
Malmstrom, Rolf Einar; Tanner, Heikki; and Saari, Matti, 3,451,804.
Ouw, Willem Bian Gwan: *See—*
Rubinfeld, Joseph; and Ouw, Willem Bian Gwan,3,428,654.
Ouweltjes, Jan Lourens; Wanmaker, Willem Lambertus; and Radielovic, Dragutin. Method of producing luminescent alkaline earth halophosphates. 3,468,811, 9-23-69, Cl. 252-301.4
Ouye, James: *See—*
Rodriguez, George; and Ouye, James,3,463,080.
Ovalstrapping Inc.: *See—*
Pasic, James A., 3,447,448.
Over, Charles E., to Kinematics Limited. Sluice valves. 3,457,950, 7-29-69, Cl. 137-546.
Over, John A.; and Bergquist, Clifford A., to Pendleton Tool Industries, Inc. Reversible ratchet wrench with floating pawls. 3,436,992, 4-8-69, Cl. 81-63.1
Over, William Roderick: *See—*
Gurley, Grey Manning; and Over, William Roderick,3,431,621.
Over, William Roderick, to AMP Incorporated. Crimping tool having wire severing means. 3,426,355, 2-4-69, Cl. 29-203.
Over, William Roderick, to AMP Incorporated. Electrical connections for pairs of conductors. 3,444,312, 5-13-69, Cl. 174-88.
Over, William R., to AMP Incorporated. Method and apparatus for connecting groups of wires. 3,438,407, 4-15-69, Cl. 140-111.
Over-Lowe Company, Inc.: *See—*
Hopkins, Leonard L., 3,472,554.
Ott, Carl A., 3,435,817.
Overbeck, Charles J.; and Hickey, James J., to Nalco Chemical Company. Chelometric zinc titration. 3,479,152, 11-18-69, Cl. 23-230.

Overbeck, Charles J.: *See—*
Robertson, Thomas M.; Overbeck, Charles J.; and Hickey, James J.,3,440,014.
Overbury, Francis Giles: *See—*
Earp, Charles William; and Overbury, Francis Giles,3,448,453.
Overcashier, Robert H.; and Sanborn, Charles E., to Shell Oil Company. Circulating solids dispersed in a liquid. 3,464,967, 9-2-69, Cl. 260-94.7
Overcashier, Robert H.; Shain, Stephen A.; and Schlaudt, Charles M., to Shell Oil Company. Method of producing foamed glass having uniform cell size. 3,443,920, 5-13-69, Cl. 65-22.
Overcashier, Robert H.; and Shearer, Charles J., to Shell Oil Company. Fluid processing device. 3,443,798, 5-13-69, Cl. 259-102.
Overdeck, John S. Apparatus for surface-treating blast furnace bells and the like. 3,430,389, 3-4-69, Cl. 51-34.
Overdurf, John Clyde, Jr.: *See—*
Smollinger, Carl W.; and Overdurf, John Clyde, Jr.,3,446,000.
Overhead Door Corporation: *See—*
Delaney, Charles E., 3,474,317.
Delaney, Charles E., 3,481,212.
Pemberton, Paul E., 3,447,192.
Pemberton, Paul E.; Loose, Sheldon D.; and Greene, Anthony E., 3,457,983.
Rossoni, Angelo S., 3,451,572.
Rossoni, Angelo S., 3,474,921.
Smith, Vernon O., 3,439,948.
Overhulser, William T., to Gladding Corporation. Pick-up camper mounting means. 3,475,049, 10-28-69, Cl. 296-23.
Overlach, Hans: *See—*
Scharf, Willi; and Overlach, Hans,3,435,965.
Overman, Kenneth T., to Corning Glass Works. Constant force internal support for glass overflow wedge. 3,437,470, 4-8-69, Cl. 65-195.
Overmars, Henricus Gerardus Josef, to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Process for the manufacture of polyurethane foams. 3,427,263, 2-11-69, Cl. 260-2.5
Overmars, Henricus Gerardus Josef; and Noltes, Jan Gerrit, to International Lead Zinc Research Organization, Inc. Process for the trimerization of butadiene. 3,458,585, 7-29-69, Cl. 260-666.
Oversmith, Robert H. Underwater craft and submerged propulsion systems. 3,420,202, 1-7-69, Cl. 114-16.
Oversohl, Wilhelm; and Clausen, Fritz, to Nitrochemie G.m.b.H. Solid rocket propellants. 3,429,264, 2-25-69, Cl. 102-100.
Overson, Martin Lee, to Twin Disc, Incorporated. Hydraulically operated friction clutch of the dual actuating chamber type having a sequencing valve. 3,472,350, 10-14-69, Cl. 192-85.15
Overstreet, Le Roy B., Jr., to Thomson Machinery Co., Inc., mesne. Tree shaker. 3,460,329, 8-12-69, Cl. 56-328.
Overstreet, Le Roy B.; Brumbaugh, Eugene P.; and Brumbaugh, Bertrand L., said Overstreet assor to Thomson Machinery Company, Inc., mesne. Harvester for nuts and the like. 3,475,889, 11-4-69, Cl. 56-328.
Overstreet, Raymond L. Privacy enclosure. 3,482,585, 12-9-69, Cl. 135-1.
Overstreet, Robert L., Jr., to Bell Telephone Laboratories, Incorporated. Pulse train repetition rate divider that divides by a fractional number. 3,446,947, 5-27-69, Cl. 235-150.3
Overstreet, Rogert L., Jr., to Bell Telephone Laboratories, Incorporated. Plurality of sources connected In parallel to produce a timing pulse output while any source is operative. 3,479,603, 11-18-69, Cl. 328-61.
Overton Container Corporation: *See—*
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E., 3,439,862.
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E., 3,481,457.
Overton, Dolphin D., III; Hughes, William E.; and Rustin, Rudolph B., Jr., 3,485,350.
Rustin, Rudolph B., Jr.; Overton, Dolphin D., III; and Hughes, William E., 3,472,363.
Overton, Dolphin D., III; Hughes, William E.; and Rustin, Rudolph B., Jr., to Overton Container Corporation. Roll shipping container. 3,485,350, 12-23-69, Cl. 206-59.
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E., to Overton Container Corporation. Container. 3,439,862, 4-22-69, Cl. 229-23.
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E., to Overton Container Corporation. Container. 3,481,457, 12-2-69, Cl. 206-52.
Overton, Dolphin D., III: *See—*
Rustin, Rudolph B., Jr.; Overton, Dolphin D., III; and Hughes, William E.,3,472,363.
Overton, Glen. Drying cylinder. 3,426,839, 2-11-69, Cl. 165-89.
Overtveld, Gilles J., to Northern Electric Company Limited. Temperature compensated bias circuit. 3,430,076, 2-25-69, Cl. 307-297.
Overtveld, Gilles J., to Northern Electric Company Limited. Method and apparatus for matching the current/ voltage characteristics of two non-linear resistances. 3,457,507, 7-22-69, Cl. 324-158.
Oville, Eugene; and Sauterel, Gerard, to Matisa Materiel Industriel S.A. Trackwork machines for railroad tracks and improved method of operating same. 3,444,822, 5-20-69, Cl. 104-8.
Ovitron Corporation: *See—*
Maines, Robert Q., 3,428,928.
Ovrebo, Jerry D.: *See—*
Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H.,3,480,795.
Ovretveit, Karsten Alfred. Sealing in hydraulic machines. 3,470,791, 10-7-69, Cl. 91-81.
Ovshinsky, Herbert C.; and Paul, Frank W. Coupling device for vehicle drive wheels. 3,447,622, 6-3-69, Cl. 180-22.
Ovshinsky, Stanford R., to Energy Conversion Devices, Inc., mesne. Photoconductive bistable device. 3,461,296, 8-12-69, Cl. 250-211.
Owada, Atsushi: *See—*
Shibata, Shinichi; Mori, Hideo; and Owada, Atsushi,3,432,732.
Owaki, Kenichi; and Nakayama, Norihiko, to Fujitsu Limited, mesne. Non-uniform magnetic field magnetron device. 3,454,824, 7-8-69, Cl. 315-39.71
Owatonna Manufacturing Company, Inc.: *See—*
Kanengieter, Glenn G., 3,461,669.
Owatonna Tool Company: *See—*
Kaplan, Donald J., 3,472,250.
Owbridge, Herbert H. Toy submarine. 3,419,997, 1-7-69, Cl. 46-244.
Owego Heat Treat, Inc.: *See—*
Engelhard, William E., 3,481,047.
Owen, Alfred Kennedy: *See—*
Hunter, Henry Douglas; and Owen, Alfred Kennedy,3,428,307.
Owen, Bill E. Pickup camper. 3,466,083, 9-9-69, Cl. 296-23.
Owen, Charles E.; Proudman, Antony; Taub, Daniel M.; and Warwick, William A., to International Business Machines Corporation. Transformer read-only storage construction. 3,432,830, 3-11-69, Cl. 340-174.
Owen, Charley H., to Phillips Petroleum Company. Catalytic conversion. 3,440,020, 4-22-69, Cl. 23-288.
Owen, Clure H., Jr. Multipurpose trailer. 3,460,696, 8-12-69, Cl. 214-505.
Owen, David Edward, to Pilkington Brothers Limited. Method and apparatus for surface level control of molten glass. 3,469,962, 9-30-69, Cl. 65-29.
Owen, Frank, III: *See—*
Blunk, Boyde W.; and Owen, Frank, III,3,433,004.
Owen, Henry E. S.: *See—*
Murphy, Frank H.; and Owen, Henry E. S.,3,453,568.
Owen, James E., to Kewanee Oil Company, mesne. Colored titanium pigment materials having a spinel structure and method of preparing same. 3,424,551, 1-28-69, Cl. 23-51.
Owen, James R., to Phonemaster, Inc. Accessory for telephone answering system. 3,471,643, 10-7-69, Cl. 179-1.
Owen, Jeffrey M.; and Wright, Margaret A., to Eastman Kodak Company. Dissolving dyes by ultrasonics. 3,485,634, 12-23-69, Cl. 96-102.
Owen, Lewis M.: *See—*
Peeps, Donald J.; and Owen, Lewis M.,3,424,129.
Owen, Louis V.: *See—*
Tarr, Charles O.; and Owen, Louis V.,3,466,203.
Owen, Robert G.,: *See—*
Switzer, William E., 3,445,614.
Owen, Robert W. Safety strap saddle. 3,453,695, 7-8-69, Cl. 24-22.
Owen, Roger L.; and Foote, Daniel J., to Master Lock Company. Padlock shackle guards. 3,453,846, 7-8-69, Cl. 70-54.
Owen, Thomas J., to Pathway Bellows, Inc. Testable and pressurized multiple ply bellows. 3,472,062, 10-14-69, Cl. 73-40.5
Owen, Tom E.: *See—*
Davidson, Eugene M.; Gunter, Addison Y.; and Owen, Tom E.,3,482,299.
Owen, William M., Jr. Heater construction for closing packages. 3,452,513, 7-1-69, Cl. 53-329.
Owen, Willis A.: *See—*
Roulet, Robert F.; and Owen, Willis A.,3,456,683.
Owens, Abner, Jr.: *See—*
Yurasek, John F.; and Owens, Abner, Jr.,3,426,245.
Owens, Austin P. Ski sled. 3,451,689, 6-24-69, Cl. 280-21.
Owens, Bobby, to LTV Electrosystems, Inc. Flow-sensitive shutoff valve. 3,434,493, 3-25-69, Cl. 137-460.
Owens, Boone B.: *See—*
Argue, Gary R.; and Owens, Boone B.,3,443,997.
Owens, Boone B., to North American Rockwell Corporation. Solid state electric cell utilizing as an electron acceptor material an organic ammonium polyiodide. 3,476,605, 11-4-69, Cl. 136-83.
Owens, Boone B., to North American Rockwell Corporation. Solid state electrochemical device. 3,476,606, 11-4-69, Cl. 136-83.
Owens Corning Fiberglas Corporation: *See—*
Marzocchi, Alfred; and Brown, Alfred Winsor, 3,433,689.
Owens, Daniel Kenyon, to Du Pont de Nemours, E. I., and Company. Vinylidene chloride copolymer coated polymeric film containing steatite talc in the coating. 3,428,483, 2-18-69, Cl. 117-145.

Owens, David E., to United States Steel Corporation. Stub-tube connection for space-frame structures. 3,425,182, 2-4-69, Cl. 52-650.
Owens, Dewey E., to Land and Marine Rental Company. Drill stabilizer tool. 3,420,323, 1-7-69, Cl. 175-323.
Owens, Edward W., to AFA Corporation of Florida, The. Closure construction. 3,435,976, 4-1-69, Cl. 215-40.
Owens, Fred J.; and Konet, Henry, to Aircraft Radio Corporation. Directional gyroscope. 3,455,030, 7-15-69, Cl. 33-204.
Owens, Horace E.: *See—*
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E.,3,438,625.
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E.,3,485,490.
Owens, James C.: *See—*
Bender, Peter L.; and Owens, James C.,3,424,531.
Owens, James Loyd, to Western Electric Company, Incorporated. Resistance measuring bridge circuit having output means providing a single polarity voltage. 3,479,589, 11-18-69, Cl. 324-62.
Owens, James M.; Graham, James L.; and Pilsworth, Edward A., to Eastman Kodak Company. Method of spectrally sensitizing photographic silver halide emulsions. 3,469,987, 9-30-69, Cl. 96-102.
Owens, John E.; and Zafiroglu, Dimitri P., to Du Pont de Nemours, E. I., and Company. Machine for forming nonwoven webs. 3,481,005, 12-2-69, Cl. 19-156.4
Owens, Kenneth E.; and Hatch, Robert A., to Minnesota Mining and Manufacturing Company. Ceramic greensheets. 3,458,329, 7-29-69, Cl. 106-39.
Owens, Nicoli. Pill container. 3,425,578, 2-4-69, Cl. 215-9.
Owens, Omer O.: *See—*
Aaron, Herbert S.; Owens, Omer O.; and Miller, Jacob I.,3,464,997.
Owens, Raymond C., to Radio Corporation of America. Television kinescope voltage cable assembly. 3,448,323, 6-3-69, Cl. 315-1.
Owens, Robert S.; and Barnes, Wilson J., to General Electric Company. Apparatus and method for determining the effectiveness of mixing of liquids. 3,458,260, 7-29-69, Cl. 356-115.
Owens, Robert Stephen: *See—*
Owens, William L.; and Owens, Robert Stephen,3,421,523.
Owens, Thomas F.; and Roys, George P., to Thiokol Chemical Corporation. Gas generator nozzle for ducted rockets. 3,486,339, 12-30-69, Cl. 60-261.
Owens, William L.; and Owens, Robert Stephen. Hair roller. 3,421,523, 1-14-69, Cl. 132-40.
Owens-Corning Fiberglas Corporation: *See—*
Anderson, Cecil Van; and Miller, Ward B., 3,454,983.
Bahnsen, Edward B., Jr., 3,477,984.
Bastone, Andrew L., 3,483,054.
Benson, Gustav E., 3,448,500.
Benson, Gustav E.; and Shafer, William C., 3,472,015.
Boyes, David W.; and Potter, Douglas E., 3,444,120.
Day, Frank; and Froberg, Manus L., 3,437,327.
Dunbar, Sidney G.; and Hullhorst, William B., 3,458,966.
Gagnon, Roland K.; Marzocchi, Alfred; and Rogers, Harold, 3,444,116.
Gelin, Robert J.; and Sprow, Teren K., 3,462,081.
Gorski, Florian T., 3,437,508.
Greason, David M.; and Sabine, Hale J., 3,422,920.
Griem, Paul D., Jr., 3,420,510.
Griem, Paul D., Jr., 3,471,278.
Haynes, Harold L.; Rammel, Gerald E.; and Morrison, Albert R., 3,461,090.
Heumann, Frederick G., 3,430,892.
Higginbotham, James M., 3,475,148.
Hullhorst, William B., 3,479,239.
Kane, John L.; Mattern, Edward E.; and Funk, Edwin C., 3,452,400.
Kissell, Ronald E., 3,469,706.
Krause, Richard J., 3,463,268.
Langlois, Roland E., 3,442,751.
Leaman, Harold E., 3,468,644.
Littin, Robert J., 3,462,341.
Maines, Virgil L., 3,469,057.
Marzocchi, Alfred; and Tamosauskas, Albert E., 3,424,608.
Marzocchi, Alfred; and Waugh, John A., 3,432,332.
Marzocchi, Alfred, 3,453,652.
Marzocchi, Alfred; and Rammel, Gerald E., 3,462,254.
Marzocchi, Alfred; and O'Flahavan, James M., 3,462,523.
Marzocchi, Alfred; and Garbin, Albert J., 3,469,512.
Marzocchi, Alfred; and Garbin, Alfred J., 3,473,400.
Marzocchi, Alfred; and Lachut, Frank J., 3,473,595.
Marzocchi, Alfred, 3,479,207.
Northrop, Harry V., 3,437,405.
Pearson, Arthur J., 3,441,465.
Pfeifer, Oliver W.; and Taylor, William C., 3,468,750.
Pfeifer, Oliver W.; and Shannon, Richard F., 3,472,668.
Rammel, Gerald E.; Taylor, Everett W.; and Charon, Clarence W., 3,472,682.
Rees, Vernon C., 3,467,947.
Russell, Robert G.; and Cunningham, Cecil R., 3,469,796.
Shannon, Richard F., 3,458,907.
Shannon, Richard F., 3,459,571.
Shannon, Richard F., 3,470,977.
Shelly, Thomas J., 3,436,102.
Smith, Roy E., 3,423,922.
Smith, Roy E., 3,466,864.
Smith, Wayne L., 3,448,823.
Smock, George E., 3,485,610.
Stalego, Charles J.; and Varrasso, Eugene C., 3,468,643.
Stalego, Charles J., 3,475,147.
Sullivan, Philip W.; and Wong, Robert, 3,449,281.
Trethewey, William C., 3,467,325.
Trethewey, William C., 3,476,538.
Trethewey, William C., 3,482,956.
Underwood, John T.; Palmer, Burton M.; Canfield, Sheldon A.; and Pitt, Richard E., 3,467,739.
Vevoda, Robert F., 3,438,163.
Wong, Robert, 3,473,950.
Wood, Richard P., 3,473,512.
Owens-Illinois Glass Company: *See—*
Best, William V.; Hughes, Roland L.; and Austin, Lewis M., 3,440,092.
Kitaj, Walter, 3,430,627.
Newing, Charles W., Jr., 3,427,273.
Plymale, Charles E., 3,477,097.
Owens-Illinois, Inc.: *See—*
Albers, Walter R.; and Miller, Arthur T., 3,438,492.
Albinak, Marvin J.; and Turner, Warren H., 3,440,172.
Amberg, Stephen W.; and Amberg, Ralph G., 3,445,892.
Amberg, Stephen W.; Burke, Douglas J.; and Nicholas, Nicholas J., 3,454,208.
Amberg, Stephen W., 3,468,467.
Amberg, Stephen W.; Amberg, Ralph G.; and Phillips, Julius, 3,471,992.
Anderson, Winfield S., Jr., 3,478,680.
Asunmaa, Saara K., 3,445,209.
Asunmaa, Saara K.; and Steierman, Bernard L., 3,480,459.
Austin, Lewis M.; Denman, Robert R.; O'Dennell, Thomas P.; and Veres, Frank, 3,484,328.
Baak, Nils Tryggve E. A., 3,458,330.
Babcock, Dudley S., 3,458,076.
Barnby, Herbert A., 3,438,790.
Bayer, Gerhard, 3,449,064.
Bayer, John W.; Gagnon, Donald W.; and Grinonneau, William C., 3,427,257.
Bayer, John W.; and Santiago, Edgardo, 3,440,179.
Bayer, John W.; Gagnon, Donald W.; Grinonneau, William C.; and Santiago, Edgardo, 3,476,732.
Berry, James W.; and Deutschman, Archie J., Jr., 3,473,888.
Best, William V.; and Hughes, Roland L., 3,423,324.
Best, William V.; and Hughes, Roland L., 3,459,673.
Birrell, Stewart H., 3,443,355.
Bishop, Frederic L., 3,445,212.
Bishop, Frederic L., 3,451,579.
Bishop, Frederic L.; Cook, Eugene M.; and Florence, Jack M., 3,475,150.
Bishop, Frederic L., 3,485,648.
Braddy, John E.; and Wiens, Bradley E., 3,432,331.
Bruss, Howard G., Jr.; Schlientz, Walter J.; and Wiens, Bradley E., 3,445,269.
Burzynski, Alfred J.; and Martin, Robert E., 3,449,293.
Burzynski, Alfred J.; and Johnson, Carl A., 3,451,838.
Burzynski, Alfred J., 3,460,980.
Busdiecker, Robert A., 3,454,408.
Carl, David George, 3,453,982.
Cook, John E., 3,445,219.
Cunningham, Ernest R.; and Hohl, John, 3,447,280.
Decker, Alfred S.; and Wideman, Luther H., 3,461,795.
Denman, Robert R., 3,428,513.
Denman, Robert R., 3,484,327.
Doering, William E.; and Kegg, Robert R., 3,457,095.
Drennan, James G., 3,433,523.
Dreps, James R., 3,481,002.
Dunholter, Harry E., 3,436,247.
Ellis, James Leslie, 3,459,569.
Ernsthausen, Roger E.; and Myers, Clarence M., 3,485,664.
Finn, John B.; and Hudecek, Carl J., 3,468,646.
Fischer, Hellmuth G., 3,449,203.
Fischer, Hellmuth G.; and LaDue, Augustus W., 3,481,726.
Fischer, Hellmuth Georg; and La Due, Augustus W., 3,460,927.
Francel, Josef; Jagodzinski, Robert F.; and Mansur, Fred E., 3,460,960.
Gallagher, Terence J., 3,445,273.
Gingrich, Richard I., 3,456,398.
Graham, Paul W. L., 3,473,906.
Hagedorn, Erwin C., 3,420,684.
Hagedorn, Erwin C.; and Hall, Dallas P., 3,466,180.
Harget, Paul J.; and Sturgill, Dennis T., 3,479,631.
Heaton, Richard A., 3,482,724.
Heider, James E.; and Santelli, Thomas R., 3,429,003.
Heider, James E.; and Rhoads, Roger R., 3,462,007.
Heyne, Clarence A., 3,483,802.

Hider, Shibley A., 3,473,953.
Hider, Shibley A.; and Kitaj, Walter, 3,481,763.
Howell, John R., 3,469,761.
Huebner, Robert J., 3,424,569.
Hughes, Joseph V., Jr.; and Squier, Charles A., 3,428,716.
Hyland, James W., Jr., 3,434,984.
Irwin, George W., 3,472,642.
Jacoby, Ben, Jr., 3,476,376.
Janakirama-Rao, Bhogaraju V., 3,446,695.
Janakirama-Rao, Bhogaraju V., 3,486,914.
Jasinski, Amy L.; and Walmsley, Judith A., 3,428,706.
Johnson, John R., 3,460,669.
Johnson, William E., 3,420,168.
Johnson, William E., 3,442,207.
Johnson, William E., 3,460,468.
Johnson, William E.; and St. John, Douglas F., 3,473,467.
Keefer, George E.; and Pei, Yu K., 3,445,216.
Keefer, George E., 3,453,094.
Keefer, George E., 3,460,932.
Keefer, George E., 3,466,160.
King, Frank T., 3,475,638.
Kitaj, Walter, 3,477,890.
Klawitter, Roland E.; Murley, Ellsworth M., Jr.; Rottmann, Hans R.; and Sebring, Lowell W., 3,466,452.
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,457,182.
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,457,183.
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,471,409.
Levene, Leon, 3,431,229.
Levene, Leon; and Thomas, Ian M., 3,441,399.
Levene, Leon, 3,441,432.
Levene, Leon, 3,457,100.
Levene, Leon, 3,474,070.
Levene, Leon, 3,479,316.
Luce, John Whitney, Sr., 3,481,234.
Ludder, Rodney E., 3,450,327.
Lusher, Kenneth G., 3,476,045.
Mackey, Robert W.; and Morgan, William J., 3,437,504.
McCandless, William, 3,456,564.
Mennitt, Joseph L., 3,424,030.
Meyers, Willard F., 3,469,748.
Miller, John D., 3,456,782.
Monks, Joseph R., 3,482,955.
Monks, Joseph R., Jr., 3,445,255.
Morrison, John, 3,457,130.
Muchow, Gordon M., 3,473,999.
Mueller, Martin, 3,440,794.
Mueller, Martin; and Byrd, Carl, 3,472,403.
Mumford, Eustace Harold, 3,472,639.
Murley, Ellsworth M., Jr., 3,451,546.
Murley, Ellsworth M., Jr., 3,484,685.
Newing, Charles W., Jr., 3,428,599.
Newing, Charles W., Jr., 3,474,039.
Ninneman, Lawrence D., 3,453,353.
Ninneman, Lawrence D.; and Wolford, Wallace W., 3,468,219.
Ninneman, Lawrence D., 3,471,896.
Ninneman, Lawrence Duane, 3,486,292.
Nowak, Edward A., 3,468,648.
Nowicki, Casimir W., 3,438,515.
Patterson, John L., 3,479,206.
Pei, Yu K., 3,457,054.
Petticrew, Richard W., 3,460,967.
Plymale, Charles E., 3,477,892.
Porter, Charles A., 3,484,077.
Prendergast, John R., 3,446,611.
Read, William B., 3,428,337.
Redwine, Richard H.; and Schmid, Anthony P., 3,484,258.
Renner, Arthur W., 3,451,193.
Reyburn, Nathaniel R., 3,485,911.
Richards, Raymond S., 3,432,278.
Richie, Carlton A., 3,465,910.
Richie, Carlton A., 3,466,705.
Roe, Sheldon F., Jr., 3,447,946.
Roeck, Erich F., 3,460,315.
Rottmann, Hans R., 3,439,178.
Rough, Robert R., 3,486,874.
Ryan, William H., 3,487,166.
Santiago, Edgardo, 3,468,865.
Scalora, Anthony J., 3,475,243.
Scalora, Anthony J., 3,475,250.
Scalora, Anthony James, 3,470,282.
Schaich, Wilbur A., 3,460,863.
Schaich, Wilbur A., 3,470,283.
Schlientz, Walter J.; and Wiens, Bradley E., 3,438,801.
Shick, Philip E.; and Chari, Nallan C. S., 3,420,626.
Shick, Philip E., 3,433,577.
Shick, Philip E., 3,446,698.
Smalley, Ned J., 3,468,447.
Smith, Allison L., 3,420,698.
Smith, Allison L., 3,424,567.
Smith, William E., 3,473,936.
Smith, William E., 3,486,963.
Sorbie, Thomas B., 3,420,369.
Spanoudis, Louis, 3,479,217.
Sporek, Karel F., 3,478,205.
Sporek, Karel Frantisek, 3,453,196.
Steigelman, Herman A., 3,425,859.
Stengle, Edward J., Jr., 3,438,116.
Stengle, Edward J., Jr., 3,457,221.
Stengle, Edward J., Jr., 3,457,323.
Stengle, Edward J., Jr., 3,487,122.
Stewart, John D., 3,451,184.
Story, Augustus L., 3,461,092.
Sturgill, Dennis T., 3,441,397.
Swain, Arthur B., 3,481,750.
Swartzbaugh, Peter T., 3,458,113.
Swift, Edgar A., 3,433,401.
Szalay, Paul J.; and Johnson, Carl A., 3,484,397.
Takagi, Kiyoshi; and Wada, Masamichi, 3,455,706.
Tashiro, Megumi; Wada, Masamichi; Yamanaka, Toshio; and Tani, Kenichi, 3,473,937.
Teague, Jo Morgan, Jr., 3,453,106.
Thomas, Ian M., 3,433,758.
Thomas, Ian M., 3,457,224.
Thomas, Ian M., 3,474,069.
Tolman, Charles H., 3,424,595.
Torok, Julius J., 3,468,654.
Trease, Ralph E., 3,427,258.
Trudeau, Urban P., 3,445,218.
Van Steyn, Gerard Karol, 3,441,706.
Veres, Frank, 3,461,078.
Veres, Frank, 3,462,252.
Wagner, Warren L.; and Wheaton, Jack M., 3,465,906.
Wagner, Warren L., 3,473,684.
Wallace, Robert T., 3,422,177.
Walmsley, Judith A., 3,433,764.
Weaver, Edward A., 3,460,926.
Wheaton, Jack M., 3,480,173.
Whitney, Ralph H., 3,481,019.
Wojcik, Gerald Edward; and Lawson, William Manford, 3,486,872.
Wu, Jimmy C. C., 3,436,203.

Owens-Illinois,Inc.: *See—*
Richards, Raymond S.; and St. John, Douglass F., 3,423,573.

Ower, Donald Theodore. Method and apparatus for logging well bores utilizing a pulsating D.C. signal. 3,464,000, 8-26-69, Cl. 324-1.

Owings, James L.: *See—*
Jackson, Meryl A.; and Owings, James L.,3,464,814.

Ownby, James C.: *See—*
Davis, Herman E.; and Ownby, James C.,3,447,917.

Owsen, Paul J., to Lovejoy Tool Company, Inc. Vibration damping device for milling cutters. 3,463,048, 8-26-69, Cl. 90-11.

Oxel, Berton, to Dyfoam Corporation. Product composed of a mixture of expanded synthetic thermoplastic beads mixed with and molded with materials having a different density. 3,457,217, 7-22-69, Cl. 260-41.

Oxenrider, Bryce C.: *See—*
Bostian, Logan C.; Cawthon, Thomas M.; and Oxenrider, Bryce C.,3,466,260.

Oxenrider, Bryce C.; and Lund, Richard B., to Allied Chemical Corporation. Polyester resins and preparation thereof. 3,438,938, 4-15-69, Cl. 260-47.
Gilbert, Everett E.; Oxenrider, Bryce C.; and Schmitt, George J.,3,480,585.

Oxford, James G. Spring hinge structure. 3,432,193, 3-11-69, Cl. 287-100.

Oxford Laboratories: *See—*
Persidsky, Maxim D.; and Roach, William J., 3,440,913.
Roach, William J., 3,452,901.

Oxford Paper Company: *See—*
Dragoon, Robert; and Kraske, Karl V., 3,463,659.
Fadner, Thomas A., 3,431,137.
Fadner, Thomas A., 3,453,131.
Hart, Robert T., 3,425,896.
Leckey, Cleve R.; Quint, Richard J.; and Blanchard, Richard L., 3,427,723.
Lorck, Flemming L., 3,445,270.
Perkins, Glenn H., 3,455,241.

Oxford Wool Filler Incorporated: *See—*
St. Germain, Alfred R., 3,485,135.

Oxley, Brian William: *See—*
Dickinson, George Alfred; Morgan, John Henry; Thomas, James Edward Celfyn; and Oxley, Brian William,3,433,612.

Oxley, Robert F. Multiple socket patchboards. 3,486,034, 12-23-69, Cl. 307-41.

Oxley, Vincent C.: *See—*
Hileman, Ronald E.; and Oxley, Vincent C.,3,435,141.

Oxymill S.A.: *See—*
Millois, Robert; Peiffert, Jean; and Stcherbatcheff, Georges, 3,453,515.

Oxysynthese: *See—*
Coingt, Michel, 3,424,696.

Oy Airam Ab: *See—*
Tamminen, Pentti J., 3,443,994.
Oy Tahka AB: *See—*
Lehtola, Erkki T., 3,435,942.
Rossi, Onni Ilmari, 3,467,253.
Oy Tampella Ab.: *See—*
Strom, Rolf, 3,462,103.
Yli-Paavola, Antti J., 3,420,458.
Oya, Yuichiro: *See—*
Taniguchi, Kenji; and Oya, Yuichiro,3,450,896.
Oyama, Tomio: *See—*
Suoka, Shine; and Oyama, Tomio,3,435,135.
Oyamada, Kozo: *See—*
Tamura, Saburo; Takematsu, Tetsuo; Oyamada, Kozo; and Jojima, Teruomi,3,427,146.
Oyen, Haakon C. F.: *See—*
Haakon, C. F. Oyen; and Oyen, Haakon C. F.,3,438,501.
Ozaki, Kazuyoshi. Electric actuator for automatic doors. 3,468,061, 9-23-69, Cl. 49-360.
Ozaki, Kazuyoshi. Device for braking and stopping door leaf of automatic doors. 3,475,862, 11-4-69, Cl. 49-360.
Ozaki, Masahiko: *See—*
Shibukawa, Takashi; and Ozaki, Masahiko,3,483,172.
Ozaki, Masami: *See—*
Watanabe, Hiroshi; Ozaki, Masami; and Hara, Junji,3,435,098.
Ozaki, Shigenobu: *See—*
Matsuda, Yoshio; and Ozaki, Shigenobu,3,443,305.
Ozark Reconditioning Company: *See—*
Huff, Donald R., 3,449,188.
Ozark-Mahoning Company: *See—*
White, Wayne E.; Munn, James M.; Gilliland, Joe E.; and Wright, Benny B., 3,463,605.
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira, to Mitsubishi Rayon Co., Ltd. Jet bundle yarn. 3,458,987, 8-5-69, Cl. 57-140.
Ozawa, Lyuji; and Toshinai, Akio, to Dai Nippon Toryo Kabushiki Kaisha. Vandate fluorescent material. 3,483,415, 12-9-69, Cl. 313-92.
Ozawa, Lyuji; Toshinai, Akio; and Nagashima, Yoshihisa, to Dai Nippon Toryo Kabushiki Kaisha. Yttrium-indium vanadate phosphors. 3,470,411, 9-30-69, Cl. 313-92.
Ozawa, Nobuo: *See—*
Yasunaga, Hidetoshi; Ichikawa, Tatsuo; Yamato, Hiroaki; Ikeda, Mitsuru; Ozawa, Nobuo; and Ueda, Kenichi,3,464,965.
Ozeki, Saburoji; Kimura, Kenji; Shimasaki, Soichi; Izuhara, Torao; Kadota, Osamu; and Sakurai, Kozi, to Nippon Kokan Kabushiki Kaisha. Apparatus for pressing scrap. 3,444,806, 5-20-69, Cl. 100-229.
Ozeki, Toshitsugu; and Kusaka, Masakatsu, to Kyowa Yuka Co., Ltd., mesne. Method for the production of β,γ-unsaturated acid esters from α,β-unsaturated acid halides. 3,474,130, 10-21-69, Cl. 260-486.
Ozias, Albert E., Jr.: *See—*
Benedict, Theodore S.; and Ozias, Albert E., Jr.,3,438,810.
Ozier, Mervyn Watts. Sleeping bags. 3,460,170, 8-12-69, Cl. 5-343.
Oznobichine, Nicolas. Multiple impact breaker. 3,447,758, 6-3-69, Cl. 241-89.
Ozolins, Rudolfs A., to Janis, Leo B. Method for producing a filter cartridge. 3,444,278, 5-13-69, Cl. 264-42.
Ozonator Corporation: *See—*
La Raus, Julius, 3,445,001.
Ozone Metal Products Corp.: *See—*
Mueller, Ernest E., 3,448,662.
Ozone Metal Products Corporation: *See—*
Linden, Bramwell R., 3,443,582.
Ozono, Tetsujiro: *See—*
Amano, Shuichi; and Ozono, Tetsujiro,3,453,650.
Amano, Shuichi; Ozono, Tetsujiro; and Koizumi, Kiyotaka,3,453,643.
P & F Industries, Inc.: *See—*
Kornhauser, Daniel W., 3,453,933.
Krepp, John D.; and Mackey, Eugene L., 3,447,695.
P & H Educational Aids: *See—*
Horn, John D., 3,486,244.
P. & M. Co. (England) Limited, The: *See—*
Watts, Walter Alfred Henry, 3,476,213.
P & O Pilgram Valve Limited: *See—*
Bunyan, Thomas W., 3,462,180.
Paabo, Max, to Aktiebolaget Maxbo. Method and apparatus for heat sealing and cutting porous thermoplastic material. 3,486,955, 12-30-69, Cl. 156-82.
Paape, Kenneth C.: *See—*
Stark, Edward J.; Bugni, Donald S.; and Paape, Kenneth C.,3,482,143.
Paape, Kenneth L.: *See—*
Bugni, Donald S.; and Paape, Kenneth L.,3,475,576.
Paape, Kenneth L., to Square D Company. Insulated bus bar assembly for an electrical enclosure. 3,469,149, 9-23-69, Cl. 317-120.
Paasch, Julius H.; and Ehmke, Conrad W., to African Explosives and Chemical Industries Limited. Method of preparing slurried explosives mixtures. 3,467,559, 9-16-69, Cl. 149-44.
Paaso, Herman, Jr.: *See—*
Barnes, Robert Bowling; and Paaso, Herman, Jr.,3,456,111.
Pabich, Richard W.; and Treiber, Richard W., to Acme Lane Company. Wing headed fastener and method for applying. 3,429,013, 2-25-69, Cl. 24-221.
Pabst Brewing Company: *See—*
Ziffer, Jack; Gaffney, Arthur S.; Rothenberg, Simon; and Cairney, Thomas J., 3,454,501.
Ziffer, Jack; and Gaffney, Arthur S., 3,483,003.
Pabst, Otto Ernst; and Haberkorn, Joseph A. Erich, to Bolkow Gesellschaft mit beschrankter Haftung. Aircraft having movable engines for vertical take off and landing. 3,451,648, 6-24-69, Cl. 244-56.
Pabst, Wilfried: *See—*
Sandstede, Gerd; Isenberg, Arnold; and Pabst, Wilfried,3,472,697.
Pacchioni, Antenore: *See—*
Beauval, Jean-Jacques; Duhem, Jean; and Pacchioni, Antenore,3,427,927.
Pacciarini, Antonio: *See—*
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario,3,433,695.
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario,3,434,897.
Pacciarini, Antonio; and Giletta, Dario, to Pirelli S.p.A. Method of printing an embossed pattern along the peripheral band of a toroidal article. 3,458,612, 7-29-69, Cl. 264-94.
Paccione, James C., to Chicago Bridge & Iron Company. Vacuum filter with a ring-tensioned medium. 3,445,003, 5-20-69, Cl. 210-401.
Pace, Edward J. Grooved panel and fixture combination. 3,476,344, 11-4-69, Cl. 248-216.
Pace, James W. Washing apparatus. 3,440,842, 4-29-69, Cl. 68-9.
Pace, John G., to Chrysler Corporation. Disc brake apparatus. 3,447,646, 6-3-69, Cl. 188-106.
Pace, Leland A. Shotgun wad. 3,469,527, 9-30-69, Cl. 102-42.
Pace, Nevlin C. Transistor T-R series switch with collector- emitter capacitance tuned with anti resonant circuit. 3,449,674, 6-10-69, Cl. 325-21.
Pace, Norman R.: *See—*
Spiegelman, Solomon; Haruna, Ichiro; and Pace, Norman R.,3,444,042.
Pace, Vincent: *See—*
Deans, Howard; and Pace, Vincent,3,420,035.
Pacharis, George H., to USM Corporation. Sheet metal expandable fastener. 3,437,004, 4-8-69, Cl. 85-71.
Pachmayr, Frank A.; and Miller, Edward B., to Pachmayr Gun Works, Inc. Gun having movably mounted barrel. 3,435,727, 4-1-69, Cl. 89-163.
Pachmayr, Frank A.; and Miller, Edward B., to Pachmayr Gun Works, Inc. Gun recoil spring assembly. 3,435,728, 4-1-69, Cl. 89-199.
Pachmayr Gun Works, Inc.: *See—*
Pachmayr, Frank A.; and Miller, Edward B., 3,435,727.
Pachmayr, Frank A.; and Miller, Edward B., 3,435,728.
Pachner, Leo C., to Shoe Form Co., Inc. Fishing reel with combined line take-up and drag. 3,446,453, 5-27-69, Cl. 242-84.5
Pachter, Irwin J.; and Weinstock, Joseph, to Smith Kline & French Laboratories. Derivatives of pteridine and a method for their preparation. 3,426,019, 2-4-69, Cl. 260-240.
Pachter, Irwin J.; and Weinstock, Joseph, to Smith Kline & French Laboratories. 6-Amino-5-methyleneaminopyrimidines. 3,429,878, 2-25-69, Cl. 260-240.
Pachter, Irwin J.: *See—*
Schoen, Karl; and Pachter, Irwin J.,3,467,755.
Pacific Adhesives Company, Inc.: *See—*
Cone, Charles N.; Hohbach, Dale J.; and Smith, Harold A., 3,428,467.
Pacific Car and Foundry Company: *See—*
Frye, Henry G., 3,466,736.
Lemon, Lucien W., 3,474,571.
Norrie, Robert C.; and Turvill, Paul A., 3,466,104.
Norrie, Robert C.; and Reynolds, Sydney H., 3,484,852.
Pacific Clay Products: *See—*
Wendt, Paul H., 3,430,989.
Pacific Coast Engineering Company: *See—*
Nagy, Jules G., 3,453,017.
Zweifel, Charles H.; and Cooper, George W., 3,436,113.
Pacific Electrical Company: *See—*
Hamel, Harold R.; and Dietz, Ernest W., 3,439,315.
Pacific Engineering and Production Co.: *See—*
Gibson, Fred D., Jr.; Halker, Bruce B.; and Thayer, Robert L., 3,463,707.
Pacific Gas and Electric Company: *See—*
Herrenkohl, Leo E.; and Ghio, Vincent, J., Jr., 3,445,582.
Pacific International Plastics: *See—*
Gold, Donald A., 3,473,208.

Pacific Oxygen Company: *See—*
Josephian, William, 3,451,573.
Pacific Pipeline Construction Company: *See—*
Anderson, Everett R., 3,446,367.
Pacific Press & Shear Corp.: *See—*
Pearson, Eugene W., 3,422,727.
Richardson, Rolland A., 3,464,320.
Pacific Products, Inc.: *See—*
Rehmke, William F., 3,447,292.
Pacific Pumping Company: *See—*
Ruxton, George S., 3,452,169.
Pacific Scientific Company: *See—*
Glauser, James E.; and Wright, William S., Jr., 3,450,368.
Heyer, Walter E.; and Mescher, Harold E., 3,441,259.
Hicks, Duane L., 3,473,407.
Wrighton, Robert J.; and Wright, William S., Jr., 3,482,799.
Pacific Vegetable Oil Corporation: *See—*
Cummings, Lowell O., 3,475,359.
Pacini, Harry A.: *See—*
Baker, Don R.; Pacini, Harry A.; and Williamson, Thomas B.,3,474,146.
Pacini, Pier Luigi, to Geigy Chemical Corporation. Perfluoroalkylamido-alkylthio methacrylates and acrylates and intermediates therefor. 3,445,491, 5-20-69, Cl. 260-399.
Pack, Leonard Peter Venner; and Elliott, Eric Edward. Telephone alarm with prerecorded control signals on one media and dial and message signals on another media. 3,445,599, 5-20-69, Cl. 179-5.
Package Containers, Inc.: *See—*
Mead, Stanley L., 3,426,393.
Package Machinery Company: *See—*
Collins, Harvey H., 3,454,990.
Kamila, Friedolf, 3,474,891.
Kamila, Friedolf, 3,474,896.
Prince, Clarence F.; and Camila, Friedolf, 3,440,801.
Provost, Richard H.; Bartlo, John S.; and Hoppe, William, 3,429,416.
Packaged Power Terminals Inc.: *See—*
Christian, Joseph Dennis, 3,486,740.
Packaged Products Corporation: *See—*
Kracauer, Paul, 3,475,181.
Packaging Corporation of America: *See—*
Bessett, Clifford H., 3,430,838.
Boyd, James W.; and Bessett, Clifford H., 3,420,395.
Champlin, Charles L., 3,445,054.
Hickin, Robert J., 3,429,434.
Hickin, Robert J., 3,429,496.
Hickin, Robert J., 3,463,354.
Kuhlman, Roy M., 3,477,592.
Ruud, Glenn E.; and Rathfon, Norman L., III, 3,481,524.
Taylor, Halfred E., 3,463,306.
Wallace, Wendell J., 3,480,137.
Packaging Frontiers, Inc.: *See—*
Doucette, Eugene F., 3,456,422.
Morris, James W., 3,482,373.
Packaging Industries Limited, Inc.: *See—*
Rohdin, Howard A.; and Rohdin, Adolph A., 3,457,700.
Packard, Charles F., to United States of America, Army. Gun barrel for silent launching of a projectile. 3,483,794, 12-16-69, Cl. 89-14.
Packard, Clifford B.: *See—*
Greenberg, Avrom; Brown, William H., Jr.; Packard, Clifford B.; and Hackenberger, George I., Jr.,3,444,569.
Packard Instrument Company, Inc.: *See—*
Barton, Henry O., 3,439,342.
Kaartinen, Niilo H., 3,485,565.
Olson, Robert E., 3,426,919.
Packard, Lyle E., 3,437,812.
Smith, Roy E., 3,450,881.
Smith, Roy E.; and Gullett, Robert C., 3,487,219.
Packard, Leslie M.; and Chance, Maynard R., to ACF Industries, Incorporated. Machine for bonding abutting strips. 3,432,374, 3-11-69, Cl. 156-366.
Packard, Lyle E., to Packard Instrument Company, Inc. Vial constructions for use in standardization pro- cedures involving liquid scintillation spectrometry equipment and having a separate compartment for an internal standard radiation source. 3,437,812, 4-8-69, Cl. 250-106.
Packard, Norman M.; and Cook, Howard R., to International Harvester Company. Method to relieve pin bore of pistons. 3,473,209, 10-21-69, Cl. 29-156.5
Packard, Norman M.; and Lenzi, William, to International Harvester Company. Head, gasket, and protector assembly and method. 3,476,099, 11-4-69, Cl. 123-193.
Packard, Norman M.; Squinto, Leonard O.; and Lenzi, William, to International Harvester Company. Piston oil control ring assembly. 3,464,707, 9-2-69, Cl. 277-143.
Packard, Norman M.; Squinto, Leonard O.; and Lezi, William, to International Harvester Company. Arrangement of cylinder and piston in engine. 3,463,057, 8-26-69, Cl. 92-233.
Packard, Roger E., to Burroughs Corporation. Digital computer having a generalized literal operation. 3,425,036, 1-28-69, Cl. 340-172.5
Packard, Roger E.; and Knuth, Donald E., to Burroughs Corporation. Digital computer having an indirect field length operation. 3,422,405, 1-14-69, Cl. 340-172.5
Packard, Roger E.: *See—*
Wells, Frank W.; and Packard, Roger E.,3,427,593.
Packard, Theodore A. Powered steerable wheel and suspension means for vehicles. 3,433,318, 3-18-69, Cl. 180-26.
Packard, William: *See—*
Herzog, Howard A.; and Packard, William,3,481,192.
Packard-Bell Electronics Corporation: *See—*
Hayden, Fred M.; and Lewinski, Robert W., 3,450,933.
Rieth, Harold F., 3,480,808.
Rieth, Harold F., 3,487,398.
Packer, Louis L.; McKenzie, Robert D.; and Haley, Joseph P., to United Aircraft Corporation. Radioactive seed containing xenon gas for medical treatment. 3,438,365, 4-15-69, Cl. 128-1.2
Packer, Luther N.: *See—*
Munden, Walter B., 3,483,758.
Packer, Ray B.: *See—*
Frank, Walter K. H.; and Packer, Ray B.,3,439,792.
Packers Development Corporation: *See—*
Logan, Richard W., 3,468,350.
Packett, Marvin A., to General Motors Corporation. Guide arrangement. 3,466,803, 9-16-69, Cl. 49-441.
Packman, Walter R.: *See—*
Hoseason, Harry Joseph; and Packman, Walter R.,3,435,568.
Packo, Joseph J.: *See—*
Anderson, Amos R., 3,483,736.
Packo, Joseph J., to American Dynamics International, Incorporated. Process of pre-testing vessels and the like for leaks. 3,483,735, 12-16-69, Cl. 73-40.7
Paco Winders, Inc.: *See—*
Kiss, Emil P.; and Onyx, Raymond C., 3,420,127.
Pactide Corporation: *See—*
Rodgers, Franklin A., 3,477,917.
Pactra Incorporated: *See—*
Vollers, Gary L., 3,460,708.
Pacza, John, to American Greetings Corporation. Decorative motion device. 3,461,023, 8-12-69, Cl. 161-17.
Padberg, Louis R., Jr., to United States of America, Navy. Method and apparatus for detecting the presence of enemy personnel in subterranean chambers. 3,474,405, 10-21-69, Cl. 340-16.
Padberg, Louis R., Jr.; Parker, Fred D.; and Markland, Merwin R., to United States of America, Navy. Small boat sonar. 3,453,588, 7-1-69, Cl. 340-3.
Padden, John J.: *See—*
Hoover, Merwin Frederick; and Padden, John J.,3,442,803.
Paddison, Eric; and Lally, Gordon John, to English Electric Company Limited, The. Electromagnetic devices. 3,456,219, 7-15-69, Cl. 335-298.
Paddock, Bernard H.: *See—*
Dieters, William I.; and Paddock, Bernard H.,3,465,812.
Paddock, Byron, Jr.: *See—*
Sansom, Jack E.; Finton, Lawrence W.; and Paddock, Byron, Jr.,3,447,547.
Paddock, Charles F.: *See—*
Limbert, Frank J.; and Paddock, Charles F.,3,435,096.
Paddock, David A.; and Hardy, Robert G., to Air Preheater Company, Inc., The. Thermal flux gauge. 3,463,006, 8-26-69, Cl. 73-355.
Paddock, Norman Lovelace; and Searle, Harold Trevor, to Hooker Chemical Corporation, mesne. Preparation of phosphonitrilic chloride polymers. 3,462,247, 8-19-69, Cl. 23-357.
Paddock, Paul F.: *See—*
Coblentz, Wesley S.; Paddock, Paul F.; and Smith, Ronald T.,3,437,174.
Paddock, Paul F., to Sunkist Growers, Inc. Fruit sizing apparatus. 3,458,043, 7-29-69, Cl. 209-102.
Paden, Harrell W.; Carr, Hullet C.; and McDowell, Alfred W., to USS Agri-Chemicals, Inc., mesne. Process and apparatus for preparing granular fertilizer from organic materials. 3,449,106, 6-10-69, Cl. 71-13.
Pader, Morton: *See—*
Miles, John J., Jr.; Pader, Morton; and Thompson, Stuart W.,3,423,211.
Padera, Charles J., to Martin-Marietta Corporation. Control surface having flexure areas for force measurements. 3,460,383, 8-12-69, Cl. 73-147.
Paderwerk Gebr. Benteler: *See—*
Bick, Klaus; and Tinnes, Bernhard J., 3,433,288.
Padgett, Edward D.; Hendrickson, Arthur H.; and Anagnost, Christ W., to United States of America, Army. Direct coupled logic circuit. 3,450,895, 6-17-69, Cl. 307-204.
Padgett, Weldon M., II: *See—*
Look, Melvin; Padgett, Weldon M., II; Hyman, Julius; Fenyes, Joseph G. E.; and Lee, Herbert P. C.,3,480,646.
Padgett, Willard L.: *See—*
Hart, Don Rex; and Padgett, Willard L.,3,451,377.
Padilla, Robert J., to Flexstrap Inc. Building joint with flexible connecting strap. 3,420,019, 1-7-69, Cl. 52-238.

Padovani, Henry R.; and Wright, John G., to Auto-Soler Company. Means for supporting footwear and pressing the solepiece thereof. 3,478,946, 11-18-69, Cl. 227-97.
Padovano, William, to Container Corporation of America. Carrier carton. 3,450,332, 6-17-69, Cl. 229-40.
Padrta, Frank G., to Universal Oil Products Company. Molecular sieve regeneration method. 3,422,004, 1-14-69, Cl. 208-310.
Padrta, Frank G., to Universal Oil Products Company. Sample introduction apparatus. 3,458,699, 7-29-69, Cl. 250-41.9
Padwick, Herbert W. Implement tool shank mountings. 3,470,966, 10-7-69, Cl. 172-710.
Pady, Roy T. Detachable iron holder for steam irons. 3,426,990, 2-11-69, Cl. 248-117.6
Paelian, Owen; and Rister, Donald R. Force measurement system. 3,483,741, 12-16-69, Cl. 73-141.
Paepke, Horst: *See*—
Martinetz, Johann; and Paepke, Horst,3,461,690.
Paepke, Horst, to Mayer & Cie. Circular knitting machine with multiple striping means. 3,452,559, 7-1-69, Cl. 66-19.
Paepke, Horst, to Mayer & Cie. Multiple system double-cylinder circular knitting machine. 3,466,897, 9-16-69, Cl. 66-14.
Paerels, Gerard Bernard: *See*—
Moed, Hendrik Durk; and Paerels, Gerard Bernard,3,420,853.
Paes, Dale R.; and Giclow, George F., to Artnell Company. Vehicle seat safety bar. 3,453,026, 7-1-69, Cl. 297-384.
Paes, Dale R.; and Jeffers, F. Eugene, to Artnell Company. Seat and method for manufacturing the same. 3,441,315, 4-29-69, Cl. 297-458.
Paetzke, Ingo: *See*—
Braun, Willy; and Paetzke, Ingo,3,428,620.
PAG Presswerk AG: *See*—
Enderlein, Hans-Carl, 3,439,081.
Paganelli, Mario, to Bassani S.p.A. Assembly method for electrical devices. 3,437,417, 4-8-69, Cl. 29-622.
Paganelli, Mario, to Bassani, S.p.A. Mounting assembly for modular wiring devices. 3,437,881, 4-8-69, Cl. 317-99.
Paganelli, Mario, to Bassani, S.p.A. Fuse-holder. 3,465,280, 9-2-69, Cl. 339-42.
Pagani, Mario: *See*—
Bocca, Alberto; and Pagani, Mario,3,475,256.
Bocca, Alberto; and Pagani, Mario,3,483,579.
Pagano, Fernando. Regulated three-phase asynchronous electric motors. 3,443,183, 5-6-69, Cl. 318-222.
Pagano, Frank, Jr.: *See*—
Pagnao, Frank, Sr.,3,436,727.
Pagano, Robert: *See*—
Pagnao, Frank, Sr.,3,436,727.
Pagano, Rose: *See*—
Pagnao, Frank, Sr.,3,436,727.
Page, Archer G.; and Carter, Alan W., to Beckman Instruments, Inc. Circuit employing silicon controlled rectifiers for regulating the RMS value of an A. C. signal across a load. 3,440,517, 4-22-69, Cl. 321-18.
Page Belting Company: *See*—
Messer, Chester R., 3,426,808.
Messer, Chester R., 3,434,509.
Messer, Chester R., 3,441,062.
Page, Calvin A., to Shell Oil Company. Bactericidal and fungicidal haloatroponitriles. 3,485,925, 12-23-69, Cl. 424-304.
Page, Clarence. Egg transfer and weighing apparatus. 3,426,894, 2-11-69, Cl. 209-121.
Page Communications Engineers, Inc.: *See*—
Bateman, Ross; and Ahlgren, James D., 3,487,310.
Browne, Sidney, 3,422,357.
Holloway, Albert L., 3,481,249.
Malm, Robert E., 3,435,147.
Malm, Robert E., 3,479,495.
Palm, Thomas A., 3,487,416.
Page, David K. Hand jointer. 3,437,115, 4-8-69, Cl. 144-120.
Page, Eulah N.: *See*—
Page, John S.,3,434,535.
Page, John S., deceased;0 (by Page, Eulah N., executrix), to Cook Testing Co., mesne. Multiple tubing string support and safety valve installation. 3,434,535, 3-25-69, Cl. 166-72.
Page, John S., Jr. Down hole self-adjusting tubing anchor. 3,454,091, 7-8-69, Cl. 166-212.
Page, John S., Jr., to Cook Testing Co. Down hole self-adjusting tubing anchor. 3,454,092, 7-8-69, Cl. 166-212.
Page, John S., Jr., to Cook Testing Co. Packer holddown and release apparatus. 3,455,381, 7-15-69, Cl. 166-121.
Page, John S., Jr., to Cook Testing Co., mesne. Pre-charged pressure responsive safety valve. 3,473,606, 10-21-69, Cl. 166-53.
Page, John S., Jr. Well safety valve. 3,477,507, 11-11-69, Cl. 166-224.
Page, John S., to Cook Testing Co., mesne. Apparatus for well completion, cementing, circulating and production. 3,448,802, 6-10-69, Cl. 166-67.
Page, Leo W., to USI Corporation, mesne. Method of making a recording assembly. 3,432,921, 3-18-69, Cl. 29-603.
Page, Leo W.; Emery, Thomas A.; and Sowers, Lewis C., to VSI Corporation, mesne. Shiftable mounting means for transducers. 3,440,359, 4-22-69, Cl. 179-100.2
Page, Lewis C.: *See*—
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C.,3,459,925.
Page, Peter Bernard, to International Standard Electric Corporation. Temperature compensation of crystal oscillators. 3,454,903, 7-8-69, Cl. 331-116.
Page, Peter Colin; Rous, Ronald Frank; Sigrist, Paul; and Ward, Peter William, to General Electric Company, Limited, The. Automatic telephone exchange switching systems. 3,423,539, 1-21-69, Cl. 179-18.
Page, Ralph E.; and Van Der Heide, Henry, to Hahn Enterprises, Inc., mesne. Milking system. 3,460,515, 8-12-69, Cl. 119-14.04
Page, Reginald Bannerman; and Loriston-Clarke, Anthony Grahame, to Hovercraft Development Limited. Gas cushion vehicles. 3,465,844, 9-9-69, Cl. 180-118.
Page, Robert M. Echo ranging system of variable sensitivity and variable range resolution. 3,451,059, 6-17-69, Cl. 343-13.
Page, Robert Z.: *See*—
Hawes, Robert O.; Page, Robert Z.; and Reed, Benjamin E.,3,469,867.
Page, Robert Z.; and Reed, Benjamin E., Jr. Method of impregnating wood. 3,467,546, 9-16-69, Cl. 117-116.
Page, Russell D.; and Easterling, Gene B., to Caterpillar Tractor Company. Motor grader blade adjusting mechanism. 3,444,936, 5-20-69, Cl. 172-795.
Page, Russell D.; and Easterling, Gene B., to Caterpillar Tractor Company. Motor grader blade circle mechanism. 3,470,967, 10-7-69, Cl. 172-793.
Page, Russell D.; Klingaman, Dean C.; Belke, William H.; Crayton, John W.; and Scholl, Rolland D., to Caterpillar Tractor Company. Vertical reference system. 3,486,564, 12-30-69, Cl. 172-44.5
Page, Wilbur M.; and Coupland, Ralph, to Clayton Dewandre Company Limited. Control of pneumatic cyclic gear boxes. 3,472,282, 10-14-69, Cl. 137-636.
Page, Wilbur M.; and Crust, Frank E., to Clayton Dewandre Company Limited. Air pressure operated braking systems. 3,456,990, 7-22-69, Cl. 303-22.
Page Zellstoffkrepp GmbH: *See*—
Rijssenbeek, Robertus C. J. M., 3,469,683.
Rijssenbeek, Robertus Cornelis Johannes Maria, 3,441,023.
Pagel, Armin B., to Eastman Kodak Company. Automatic focusing system. 3,442,193, 5-6-69, Cl. 95-44.
Pagel, Roland Camille, to International Standard Electric Corporation. Input linking device between analog functions and a numerical computer. 3,440,614, 4-22-69, Cl. 340-172.5
Pagel, Warren C., to Minnesota Mining and Manufacturing Company. Adhesive film containing heating elements. 3,438,843, 4-15-69, Cl. 161-143.
Pageprint Systems, Inc.: *See*—
Woodside, John R., 3,486,639.
Paget, Fredrick W.: *See*—
Cluett, Ronald D.; and Paget, Fredrick W.,3,482,142.
Paget, Fredrick W., to Sylvania Electric Products, Inc. Fluorescent lamp current regulating circuit. 3,479,559, 11-18-69, Cl. 315-105.
Paget, Fredrick W.; and Peek, Sandford C., Jr., to Sylvania Electric Products, Inc. Gaseous discharge lamp circuit employing a pulser and a saturable reactor. 3,457,458, 7-22-69, Cl. 315-284.
Paget, Fredrick W.; and Van Buren, Ned Scott, to Sylvania Electric Products, Inc. Arc discharge regulating device having means to compensate for supply voltage variations. 3,479,560, 11-18-69, Cl. 315-105.
Paglee, Edgar H., to Automated Handling Systems Inc., mesne. Light guide movable on conveyor for coding. 3,444,385, 5-13-69, Cl. 250-227.
Pagley, Victor A. Transportable shoe shine stand. 3,463,537, 8-26-69, Cl. 296-1.
Pagliano, John D. Foot shank pad. 3,470,880, 10-7-69, Cl. 128-619.
Pagliarulo, Garmine: *See*—
Lo Rubbio, Salvatore; and Pagliarulo, Garmine,3,463,529.
Pagnao, Frank, Sr., deceased0 (by Pagano, Rose0Pagano, Frank, Jr.; and0Pagano, Robert; executors), to Surelock Manufacturing Co., Inc. Hydraulic brake liquid loss signal with moisture excluding air vent. 3,436,727, 4-1-69, Cl. 340-59.
Pagni, Georges: *See*—
Milbert, Gerard; and Pagni, Georges,3,467,685.
Pahl, Henry D., Jr. Solid state color balance controller for incandescent lamps. 3,431,427, 3-4-69, Cl. 250-226.
Pahlavan, Marcel A., to Aerospace Products Research Corporation. Display apparatus. 3,460,127, 8-5-69, Cl. 340-324.
Pahlavan, Marcel A., to Aerospace Products Research Corporation. Display device with separate means for defining and positioning the symbol. 3,487,263, 12-30-69, Cl. 315-174.
Pahlck, Walter F. Guide means for power handsaws. 3,454,056, 7-8-69, Cl. 143-6.

Pahlitzsch, Gotthold; and Hellwig, Waldemar, to Forkardt, Paul, K.G. Manually operable chuck for lathes and other machine tools. 3,420,539, 17-69, Cl. 279-112.
Pahlke, Heinz Erich. Biaxial orientation. 3,456,044, 7-15-69, Cl. 264-25.
Pahlow, John L.: *See—*
Bayne, Peter D.; and Pahlow, John L.,3,453,114.
Pai, David H.: *See—*
Berman, Irwin; and Pai, David H.,3,438,113.
Berman, Irwin; and Pai, David H.,3,438,114.
Berman, Irwin; and Pai, David H.,3,439,405.
Paige Company Containers, Inc., The: *See—*
Paige, Richard E., 3,430,840.
Paige, John L.; and Di Palma, Sebastian M., to Uniroyal, Inc. Recovery of rubbery polymer from solution. 3,437,645, 4-8-69, Cl. 260-80.78
Paige, Richard E. Method of packaging food articles. 3,426,499, 2-11-69, Cl. 53-28.
Paige, Richard E., to Paige Company Containers, Inc., The. Collapsible paperboard box. 3,430,840, 3-4-69, Cl. 229-37.
Paige, Richard E., to Aranar Marketing Services, Inc. Moving message sign. 3,466,776, 9-16-69, Cl. 40-85.
Paige, Walter Griffin, to Burroughs Corporation. Dot printing apparatus. 3,467,232, 9-16-69, Cl. 197-1.
Paige, Walter Griffin, to Burroughs Corporation. Image projection apparatus. 3,479,118, 11-18-69, Cl. 355-26.
Paige, Walter Griffin, to Burroughs Corporation. Pushbutton switch with feel provided by magnetic attraction. 3,486,144, 12-23-69, Cl. 335-206.
Paige, Walter Griffin, to Burroughs Corporation. Pushbutton switch assembly. 3,486,145, 12-23-69, Cl. 335-206.
Paik, Sungik Francis, to United States of America, National Aeronautics and Space Administration. Parametric microwave noise generator. 3,470,489, 9-30-69, Cl. 331-78.
Paikert, Klaus: *See—*
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef,3,484,789.
Paillard S. A.: *See—*
Ascoli, Enzo, 3,426,215.
Paillard S.A.: *See—*
Ascoli, Enzo, 3,458,760.
Ascoli, Enzo, 3,458,761.
Ascoli, Enzo, 3,458,762.
Ascoli, Enzo, 3,466,659.
Grosjean, Arnold, 3,477,777.
Laurent, Francois, 3,463,929.
Leibundgut, Max, 3,427,943.
Moresi, Franco, 3,475,632.
Mouissie, Bob; and Fischer, Jorg, 3,421,707.
Neumeister, Martin; and Mouissie, Bob, 3,458,148.
Odone, Giovanni, 3,476,944.
Zimmer, Michel, 3,436,148.
Paine, Bud A.; and Trautmann, Paul R., to Spectrol Electronics Corporation. Variable resistor. 3,456,227, 7-15-69, Cl. 338-164.
Paine, Donald William Harley: *See—*
Batchelor Michael; and Paine, Donald William Harley,3,440,361.
Paine, Michael R., to Bell Aerospace Corporation. Prop-rotor pylon stabilization means. 3,486,717, 12-30-69, Cl. 244-17.25
Paine, Raymond E.: *See—*
Maggiulli, Cataldo A.; and Paine, Raymond E.,3,437,665.
Paine, Veijo K.; and Schmidt, Edwin H., to Honeywell Inc. Magnetic logic circuitry employing cores having shifted hysteresis loops. 3,460,110, 8-5-69, Cl. 340-174.
Painter, Dennis G.: *See—*
Sonnenberg, Charles F.; Whiteside, Joseph J.; and Painter, Dennis G.,3,459,881.
Painter, Giles W.; and Parry, Hugh J., to Lockheed Aircraft Corporation. Transient synthesizing system. 3,420,098, 1-7-69, Cl. 73-71.6
Painter, Giles W.; and Parry, Hugh J., to Lockheed Aircraft Corporation. Damped shock spectrum filter. 3,434,060, 3-18-69, Cl. 328-127.
Painter, Phillip, to Jenn-Air Corporation. Birdguard for roof ventilator cover. 3,456,573, 7-22-69, Cl. 98-42.
Painter, Phillip, to Jenn-Air Corporation. Roof ventilator. 3,469,519, 9-30-69, Cl. 98-43.
Painter, William L. Rotary pop-up sprinkler. 3,428,256, 2-18-69, Cl. 239-206.
Painton & Company Limited: *See—*
Richards, Claude L.; Cartwright, John A.; and Pearce, Graham, 3,432,799.
Painton, Richard Clarence; and Burke, Clarence Albert, to Eastman Kodak Company. Ironless rotor for electric motor. 3,441,761, 4-29-69, Cl. 310-154.
Pair, Jerry W.: *See—*
Pair, Sidney P.; Pair, Jerry W.; and Beck, R. W., Jr.,3,445,134.
Pair, Sidney P.; Pair, Jerry W.; and Beck, R. W., Jr. Collapsible camper. 3,445,134, 5-20-69, Cl. 296-23.
Paiste, R. & T., KG: *See—*
Paiste, Robert, 3,453,923.
Paiste, Robert, to Paiste, R. & T., KG. Percussion instrument. 3,453,923, 7-8-69, Cl. 84-402.
Paitich, Ronald M., to Varian Associates. Gyromagnetic resonance spectrometer having means for measuring the rate of sample rotation. 3,462,677, 8-19-69, Cl. 324-0.5
Pajak, Henry C., to Lamson & Sessions Co., The. Escapement mechanism. 3,476,290, 11-4-69, Cl. 221-297.
Pajak, Theodore Peter; Barsam, Edward Wesley; and Moll, Bishop Joseph, to American Cyanamid Company. Method of making shock absorber cartridge. 3,466,733, 9-16-69, Cl. 29-455.
Pajak, Witold, to Remco Industries, Inc. Toy force-balanced push-rod toggle switch mechanism. 3,479,474, 11-18-69, Cl. 200-61.44
Pajisek, Frantisek: *See—*
Bezouska, Vlastimil; Skvor, Josef; Pajisek, Frantisek; Zavazal, Zdenek; and Polorny, Oldrich,3,435,304.
Pak, Iosif Ivanovich: *See—*
Zhezmer, Boris Yakovlevich; Pak, Iosif Ivanovich; and Pruss, Anatoly Isaakovich,3,436,702.
Pakline Corp.: *See—*
Ogg, James H., 3,421,669.
Pako Corporation: *See—*
Gallistel, Albert F., 3,451,604.
Reid, Norman C., 3,466,780.
Pakula, Erwin E., to Mittelhauser & Walter. Smoking device. 3,485,769, 12-23-69, Cl. 252-359.
PAL, narodni podnik: *See—*
Havlicek, Karel; and Kostal, Alois, 3,469,233.
Pal Pools, Inc.: *See—*
Stillman, Albert H., Jr., 3,429,085.
Palacios, Richard. Planetary exerciser. 3,441,271, 4-29-69, Cl. 272-33.
Palage, Carl G.; and Palage, Guy M. Load equalizing hitch. 3,471,169, 10-7-69, Cl. 280-406.
Palage, Guy M.: *See—*
Palage, Carl G.; and Palage, Guy M.,3,471,169.
Palamidessi, Giorgio; Verini, Maria Antonietta; and Fioretti, Armanda, to Societa Farmaceutici Italia. Pyrazino-[2,3-b]-pyrazines. 3,472,849, 10-14-69, Cl. 260-250.
Palardy, Jacques: *See—*
Lagasse, Joseph Louis; Palardy, Jacques; Greenlay, John E.; Guimond, Jean P.; and Toussaint, Marcel,3,485,432.
Palaski, Joseph S.: *See—*
Palaski, Paul F., 3,452,488.
Palaski, Paul F., 1/2 to Palaski, Joseph S. Polishing belt feed mechanism. 3,452,488, 7-1-69, Cl. 51-262.
Palatinus, Anthony C. Composite intermodulation spectra signature recorder. 3,467,866, 9-16-69, Cl. 325-67.
Palato, Mario: *See—*
Gambaretto, Gian Paolo; Rinaldo, Paolo; and Palato, Mario,3,479,286.
Palazzo, Giuseppe, to Aziende Chimiche Riunite Angelini Francesco A.C.R.A.F. S.p.A. 3-Tertiary amino alkoxy-1-hydrocarbon indazoles. 3,428,634, 2-18-69, Cl. 260-247.5
Palazzo, Giuseppe, to Aziende Chimiche Riunite Angelini Francesco A.C.R.A.F. S.p.A. 1-Monocarbocyclic aryl-3-piperazino propines. 3,458,514, 7-29-69, Cl. 260-268.
Palazzo, Giuseppe, to Aziende Chimiche Riunite Angelini, Francesco A.C.R.A.F. S.p.A. (Indazole-3-yl)-oxyalkanoic acids. 3,470,194, 9-30-69, Cl. 260-299.
Palazzo, Giuseppe, to Aziende Chimiche Riunite Angelini, Francesco A.C.R.A.F. S.p.A. Topical anti-inflammatory composition containing (indazole-3-yl)-oxyalkanoic acids. 3,470,298, 9-30-69, Cl. 424-273.
Palazzolo, Joseph A.: *See—*
Bracey, Robert A.; Glossop, Donald L., Jr.; Hayosh, Robert J.; and Palazzolo, Joseph A.,3,473,842.
Palchik, Edward H., to Lummus Company, The. Transfer line heat exchanger. 3,456,719, 7-22-69, Cl. 165-142.
Paleckova, Frantisek; Hostalek, Zdenek; and Rehacek, Zdenek, to Spofa Sdruzeni Podniku Pro Zdravotnickou Vyrobu. Method of producing tetracycline. 3,434,930, 3-25-69, Cl. 195-80.
Palen, Peter H., to Conover, C. E., & Co., Inc. Low friction resilient sealing ring. 3,449,021, 6-10-69, Cl. 308-3.5
Palethorpe, George, to Monsanto Company. Process for improved incorporation of vinyl bromide in acrylic polymers. 3,487,058, 12-30-69, Cl. 260-85.5
Paletto, Raimondo, to Ates Componenti Elettronici S.p.A. Method of making P-N alloy junctions. 3,425,880, 2-4-69, Cl. 148-177.
Paletz, Leonard M.: *See—*
Fiterman, Benjamin; and Paletz, Leonard M.,3,464,372.
Simon, Peter Alan; Paletz, Leonard M.; and Fiterman, Benjamin,3,429,632.
Paleveda, William J., Jr.; and Schoenewaldt, Erwin F., to Merck & Co., Inc. Process for the separation of isomers of dichloroaniline. 3,452,096, 6-24-69, Cl. 260-582.
Paley, Hyman W. Manifold assembly. 3,477,469, 11-11-69, Cl. 137-608.

Palfreeman, John Siegfried, to U.S. Philips Corporation, meane. Apparatus for reversing the sequence of pulses in a pulse group. 3,446,967, 5r27-69, Cl. 250-199.
Palfrey, Walter: *See—*
Robinson, Dennis; and Palfrey, Walter,3,422,816.
Palfreyman, Jack; and Shepherd, Norman Willie, to Rolls-Royce Limited. Bladed rotor for a fluid flow machine, E.G. a gas turbine engine. 3,424,434, 1-28-69, Cl. 253-77.
Palfreyman, Jack; and Shepherd, Norman Willie, to Rolls-Royce Limited. Bladed rotor particularly for a compressor. 3,456,917, 7-22-69, Cl. 253-77.
Palfreyman, Raymond D., to Bendix Corporation, The. Control stick with solid state sensors. 3,447,766, 6-3-69, Cl. 244-83.
Palgrave, Derek Aubrey: *See—*
Such, John Edward; and Palgrave, Derek Aubrey,3,421,847.
Palich, William E. Medicament injection device. 3,461,868, 8-19-69, Cl. 128-214.
Palilla, Frank C.; and Tomkus, Maija R., to General Telephone & Electronics Laboratories Incorporated. Terbium activated phosphors. 3,481,884, 12-2-69, Cl. 252-301.4
Palin, Arthur Thomas, to Wilkinson & Simpson Limited. Testing of water for evaluation of its fluoride content. 3,458,286, 7-29-69, Cl. 23-230.
Palitex Project-Company G.m.b.H.: *See—*
Franzen, Gustav; Lossa, Ulrich; and Heimes, Willi, 3,466,865.
Franzen, Gustav, 3,482,386.
Heimes, Willy, 3,447,214.
Nimtz, Klaus; and Franzen, Gustav, 3,429,113.
Nimtz, Klaus; Grapp, Hans; and Martens, Adolf, 3,430,431.
Nimtz, Klaus; Heimes, Willy; and Lossa, Ulrich, 3,456,432.
Nimtz, Klaus; Franzen, Gustav; and Heimes, Willi, 3,461,660.
Nimtz, Klaus; and Franzen, Gustav, 3,478,504.
Paliz A.G.: *See—*
Tschumperlin, Karl, 3,440,839.
Palkoska, Josef: *See—*
Culik, Karel; Herold, Milos; Palkoska, Josef; Sikyta, Bohumil; and Slezak, Josef,3,429,781.
Culik, Karel; Palkoska, Josef; Vondracek, Miloslav; Skoda, Jan; and Herold, Milos,3,429,780.
Pall Corporation: *See—*
Cooper, Roydon B., 3,458,050.
Gilwood, Martin E.; and des Chatelets, Jean, 3,481,868.
Gross, Robert I.; and Cooper, Roydon C., 3,428,251.
Kiss, Erika, 3,468,830.
Pall, David B., 3,442,388.
Pall, David B.; Feindler, Klaus S.; and Vogel, Arthur, 3,448,038.
Pall, David B.; and Jasaitis, Tadas K., 3,457,339.
Pall, David B.; and Rosenberg, David, 3,472,390.
Rosenberg, David, 3,447,479.
Seibert, Chesterfield Franklin; and Verrando, Marcel G., Jr., 3,448,561.
Verrando, Marcel G.; and Kelchner, Jay R., 3,462,315.
Pall, David B., to Pall Corporation. Artificial kidney having a corrugated, convoluted membrane. 3,442,388, 5-6-69, Cl. 210-331.
Pall, David B.; Belfield, Robert Earle; Rosenberg, David J.; and Vogel, Arthur C., to Certain-Teed Saint Gobain Insulation Corporation. Method and apparatus for forming tubular fibrous insulating articles. 3,446,684, 5-27-69, Cl. 156-184.
Pall, David B.; Feindler, Klaus S.; and Vogel, Arthur, to Pall Corporation. Method and apparatus for the dehydration of oil. 3,448,038, 6-3-69, Cl. 208-187.
Pall, David B.; and Jasaitis, Tadas K., to Pall Corporation. Process for making end capped filter elements. 3,457,339, 7-22-69, Cl. 264-162.
Pall, David B.; and Rosenberg, David, to Pall Corporation. Marine sewage disposal method and apparatus. 3,472,390, 10-14-69, Cl. 210-62.
Palladino, Henry C. Athletic brace. 3,454,963, 7-15-69, Cl, 2-24.
Palladino, Michael J., to General Electric Company. Reference wave generator for a color television receiver. 3,435,132, 3-25-69, Cl. 178-5.4
Palladino, Michael J., to General Electric Company. Constant phase chrominance coupling network. 3,471,636, 10-7-69, Cl. 178-5.4
Pallagrosi, Antonio; and Pallagrosi, Eugenio, to Fratelli Pallagrosi-S.N.C. Machine for squaring plates or panels of wood, plastic material or the like, in combination with a multiple drilling machine. 3,473,583, 10-21-69, Cl. 144-35.
Pallagrosi, Eugenio: *See—*
Pallagrosi, Antonio; and Pallagrosi, Eugenio,3,473,583.
Palleon Electronics Limited: *See—*
Lefebvre, Palma Adrien; and Gelhar, Willy Otto, 3,462,768.
Zorn, Eugene K., 3,471,868.
Palletizer Corporation: *See—*
Horman, Alfred E., 3,434,603.
Palletower Limited: *See—*
Eagland, Harold W., 3,447,490.
Pallini, Ugo: *See—*
Consonni, Alberto; Pallini, Ugo; and Sciaky, Roberto,3,480,623.
Pallis, Clare M. R. Apparatus for measuring the force on a body due to fluid pressure. 3,439,539, 4-22-69, Cl. 73-301.
Pallotta, Joseph Peter, to Weck, Edward, & Company, Inc. Surgical instrument and method of manufacture. 3,459,187, 8-5-69, Cl. 128-321.
Palluel, Auguste Louis Lucien: *See—*
Ness, Norman Morin; Palluel, Auguste Louis Lucien; and Cook, Clive Douglas,3,434,951.
Pallutz, Heinrich: *See—*
Smeykal, Karl; Pallutz, Heinrich; Hahner, Eberhard; Becker, Karl; and Stoss, Werner,3,453,314.
Palm, Albert: *See—*
Goelz, Horst; Suter, Hubert; Brunnmueller, Friedrich; and Palm, Albert,3,449,412.
Palm, B., & Co.: *See—*
Svensson, Lars, 3,438,568.
Palm, Bengt Arne, to Alfa-Laval AB. Continuous heat treatment of liquid products. 3,451,471, 6-24-69, Cl. 165-66.
Palm, Bernhard A., to Buck Manufacturing Company. Suspension lifting magnet. 3,439,304, 4-15-69, Cl. 335-291.
Palm, Bernhard A., to Buck Manufacturing Company. Magnetic device with impact cushion. 3,482,689, 12-9-69, Cl. 209-115.
Palm, Bernhard N.: *See—*
Beaudry, Russell G.; and Palm, Bernhard N.,3,445,699.
Palm, Bertil Olof, to Tornborg & Lundbert Aktiebolag. Fastening device for teeth for digging and cultivating implements. 3,440,745, 4-29-69, Cl. 37-141.
Palm, Christof: *See—*
Sperber, Heinrich; Schulz, Gerhard; Palm, Christof; and Koehler, Waldemar,3,483,214.
Palm, John A., to General Electric Company. Direct production of monotungsten carbide from ores. 3,482,941, 12-9-69, Cl. 23-208.
Palm, John W.; and Vandaveer, Roscoe F., to Pan American Petroleum Corporation. Sulfur dew point measurement and apparatus therefor. 3,477,810, 11-11-69, Cl. 23-225.
Palm Oil Recovery, Inc.: *See—*
Kovacs, Ernest, 3,471,533.
Palm, Thomas A., to Page Communications Engineers, Inc. Transportable antenna and support which can be assembled on a site. 3,487,416, 12-30-69, Cl. 343-882.
Palma, James R. Valve. 3,481,500, 12-2-69, Cl. 215-11.
Palmai, Robert, to Sheller-Globe Corporation. Method of forming filters from fibrous material. 3,463,689, 8-26-69, Cl. 156-190.
Palmason, Einar Henry, to Parkson Industrial Equipment Company. Method for stripping of volatile substances from fluids. 3,469,617, 9-30-69, Cl. 159-47.
Palmen, James J.; and Strandlund, John D., to Braco, Inc. Air separation means for potatoes. 3,429,438, 2-25-69, Cl. 209-137.
Palmer, Albert; and Lindberg, Verne L., to Black Clawson Company, The. Apparatus for producting veneer. 3,478,789, 11-18-69, Cl. 144-209.
Palmer, Allan M.: *See—*
Dierks, James E.; and Palmer, Allan M.,3,454,323.
Palmer, Ansell W., to General Electric Company. Mechanism to obtain gap between recordings on a tape recorder. 3,434,724, 3-25-69, Cl. 274-4.
Palmer, Anthony William: *See—*
Drabble, John R.; and Palmer, Anthony William,3,442,719.
Palmer, Burton M.: *See—*
Underwood, John T.; Palmer, Burton M.; Canfield, Sheldon A.; and Pitt, Richard E.,3,467,739.
Palmer, Charles E., to Jones & Laughlin Steel Corporation. Steel foil band side wall supports for flexible containers. 3,423,009, 1-21-69, Cl. 229-41.
Palmer, Charles E., to Jones & Laughlin Steel Corporation. Tear strip opener for steel foil packages. 3,426,936, 2-11-69, Cl. 220-53.
Palmer, Charles E., to Jones & Laughlin Steel Corporation. Process for scoring and folding steel foil- paperboard laminates. 3,434,399, 3-25-69, Cl. 93-58.
Palmer, Charles E., to Jones & Laughlin Steel Corporation. Easy opening containers. 3,445,027, 5-20-69, Cl. 220-54.
Palmer, Charles E., to Jones & Laughlin Steel Corporation. Heating unit. 3,448,735, 6-10-69, Cl. 126-25.
Palmer, Charles E. Pipe cartridge. 3,468,314, 9-23-69, Cl. 131-3.
Palmer, Earl W.; Laigle, Roger E.; and Kabelka, Peter J., to Anaconda American Brass Company. Composite metal strips. 3,421,866, 1-14-69, Cl. 29-191.6
Palmer, Euple I.: *See—*
Pruett, Bumon J.; and Palmer, Euple I.,3,472,059.
Palmer, James, to Neil & Spencer Limited. Liquid separators. 3,451,234, 6-24-69, Cl. 68-18.
Palmer, John S., to International Harvester Company. Wedge wheel securing assembly. 3,430,992, 3-4-69, Cl. 287-52.06
Palmer, John W. Pump. 3,426,693, 2-11-69, Cl. 103-121.
Palmer,Joseph P., to Sylvania Electric Products, Inc. Indicator apparatus for signal receiving tuning means. 3,446,180, 5-27-69, Cl. 116-124.1
Palmer, Kenneth Percival; and Taylor, Michael Charles, to Lucas, Joseph, (Industries) Limited. Means for producing pulsating fluid flow. 3,478,766, 11-18-69, Cl. 137-81.5
Palmer, Lawrence Merrill, to Motorola, Inc. Frequency controlled inverters. 3,437,907, 4-8-69, Cl. 321-45.

Palmer, Marion Leslie. Portable conveyor stacker. 3,444,987, 5-20-69, Cl. 198-233.
Palmer, Melvin J.: *See—*
Dickmann, John L.; and Palmer, Melvin J.,3,481,229.
Dickmann, John L.; Flick, Howard S.; and Palmer, Melvin J.,3,481,228.
Palmer, Michael, to Turbon Ventilatoren- und Apparatebau Gesellschaft mit Beschrankter Haftung. Bladed wheels. 3,428,244, 2-18-69, Cl. 230-134.
Palmer, Milton: *See—*
Lieberman, George; Palmer, Milton; and Prussin, Samuel B.,3,479,427.
Palmer, Norbert James, to Monogram Industries, Inc. Toilet filter system for trailers. 3,458,049, 7-29-69, Cl. 210-357.
Palmer, Norbert James, to Monogram Industries, Inc. Toilet system for trailers. 3,473,171, 10-21-69, Cl. 4-78.
Palmer, Norbert J., to Monogram Industries, Inc. Coupling. 3,423,957, 1-28-69, Cl. 64-6.
Palmer, Norman Harold George, to Eaton Yale & Towne Inc. Throttle pedal unit for an industrial truck. 3,432,791, 3-11-69, Cl. 338-198.
Palmer, Norman Harold George, to Eaton Yale & Towne, Inc. Electrical control system for an industrial truck. 3,439,247, 4-15-69, Cl. 318-258.
Palmer, Reed A., to Robertshaw Controls Company. Program member or the like and method of making the same. 3,420,269, 1-7-69, Cl. 137-624.11
Palmer, Reed A., to Robertshaw Controls Company. Fluid pumping arrangement and parts therefor or the like. 3,483,823, 12-16-69, Cl. 103-53.
Palmer, Reed A.: *See—*
Golden, Robert L.; Wantz, Clarence; Rice, Harold W.; Beck, Roland D.; and Palmer, Reed A.,3,428,768.
Palmer, Rex Percival, to Imperial Chemical Industries Limited. Polyethylene compositions. 3,458,604, 7-29-69, Cl. 260-897.
Palmer, Thomas Henry, to English Electric Company Limited, The. Combustible gas detecting apparatus. 3,440,017, 4-22-69, Cl. 23-254.
Palmer, William E.; and Forster, Leslie L., to Ingersoll-Rand Company. Surface condenser. 3,429,371, 2-25-69, Cl. 165-112.
Palmeri, Joseph. Paint applicator. 3,464,079, 9-2-69, Cl. 15-235.
Palmero, Albert, to Superior Electric Company, The. Reciprocating linear motor. 3,441,819, 4-29-69, Cl. 318-115.
Palmieri, Ronald J.: *See—*
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J.,3,439,932.
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J.,3,442,529.
Palmleaf, Herbert; Koehler, Albert T.; and Mason, Richard Lewis, to Gerrard, A. J., & Company. Seal attaching method and apparatus. 3,483,900, 12-16-69, Cl. 140-93.4
Palmquist, Philip V.; and Jonnes, Nelson, to Minnesota Mining and Manufacturing Company. Tire sidewall facings. 3,449,201, 6-10-69, Cl. 161-164.
Palomo, Georges: *See—*
Gerard, Victor; and Palomo, Georges,3,449,968.
Palopoli, Frank P.; Micucci, Dominic Donald; and Rosenstock, Paul D., to Richardson-Merrell Inc. Trimethoxyphenylalkylamines and their carboalkoxy derivatives. 3,440,274, 4-22-69, Cl. 260-471.
Palovcik, John: *See—*
Clark, Glenn L.; Hanley, William G.; and Palovcik, John,3,465,418.
Palowkar, David Richard: *See—*
Ranby, Peter Whitten; and Palowkar, David Richard,3,472,785.
Palperi, Matti: *See—*
Bryk, Petri; Honkasalo, Jorma B.; Malmstrom, Rolf; Aaltonen, Olavi; and Palperi, Matti,3,460,491.
Pals, Lowell D., to Commercial Solvents Corporation. Propionaldoxime anti-skinning agent for use with oxidizing resins. 3,468,825, 9-23-69, Cl. 260-22.
Palson , Richard C. J.; and Hawes, James E., to Milton Industries Incorporated. Tape dispenser. 3,466,963, 9-16-69, Cl. 83-226.
Palson, Richard C. J.: *See—*
Deshong, Elzie E.; and Palson, Richard C. J.,3,442,371.
Ravreby, Fred A.; Palson, Richard C. J.; and Speer, Ralph W.,3,473,177.
Paltauf, Friedrich; Menasse, Raphael; and Gatzi, Karl, to Geigy Chemical Corporation. [β-(haloacetylthio)-ethyl]-carbonic acid esters. 3,483,245, 12-9-69, Cl. 260-455.
Palter, Herman. Keyboard counter for stamp dispenser. 3,458,097, 7-29-69, Cl. 226-135.
Palti, Yoram, to Yissum Research Development Company. Fluoroscopy. 3,482,093, 12-2-69, Cl. 250-53.
Paltier Corporation, The: *See—*
Skubic, Leroy F.; and Juten, Milford A., 3,449,883.
Palubniak, Paul: *See—*
Lee, Sung Chuel; and Palubniak, Paul,3,456,648.
Parrella, Alfred T.; Palubniak, Paul; and Gagliardi, Gene R.,3,461,612.
Palumbo, Anthony J.: *See—*
Keto, August I.; and Palumbo, Anthony J.,3,436,704.
Paluska, Roy T.: *See—*
Moore, James D.; and Paluska, Roy T.,3,465,734.
Paluszek, Henry. Eccentric ball valve with antislamming means. 3,475,003, 10-28-69, Cl. 251-163.
Paluzzi, Guirino W. Car-key/coin holder. 3,473,648, 10-21-69, Cl. 206-0.81
Pamarco, Inc.: *See—*
Karlquist, Fred B., 3,462,357.
Pamer, Karl A., to McNeil Corporation. Storage system with multilevel load handling means with a common loading and unloading level. 3,428,195, 2-18-69, Cl. 214-16.4
Pamlenyi, George L., to Ball Brothers Research Corporation. Wideband differential amplifier having improved gain control. 3,435,362, 3-25-69, Cl. 330-29.
Pampel, Frank L., to Motorola, Inc. Manual, automatic and semiautomatic tuning circuits utilizing voltage variable capacitance diodes. 3,440,544, 4-22-69, Cl. 325-422.
Pampus, Gottfried; Witte, Josef; and Schon, Nikolaus, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of colorless 1,4-cis-polybutadiene. 3,423,388, 1-21-69, Cl. 260-94.7
Pampus, Gottfried: *See—*
Schnoring, Hildegard; Classe, Willy; Pampus, Gottfried; Schon, Nikolaus; and Witte, Josef,3,450,184.
Schon, Nikolaus; Witte, Josef; and Pampus, Gottfried,3,476,735.
Pan American Hydroponics, Inc.: *See—*
Gaines, Floyd C., Jr., 3,446,272.
Pan American Petroleum Corporation: *See—*
Berry, Kay L., 3,464,913.
Berry, Kay L., 3,487,004.
Blenkarn, Kenneth A.; and Knapp, Alphia E., 3,436,920.
Blenkarn, Kenneth A., 3,450,201.
Bradley, John S., 3,455,144.
Buxton, Thomas S.; and Shelton, Jack L., 3,459,265.
Domenico, Samuel N., 3,427,457.
East, Clarence Robert; and Mallinger, Morton A., 3,431,977.
Estes, Jack C.; and Park, Arthur, 3,472,768.
Flickinger, Don H., 3,456,733.
Flickinger, Don H.; and Fast, Clarence R., 3,486,559.
Froning, H R., 3,464,491.
Froning, H Robert; and Stanzione, John A., 3,438,439.
Gum, Earl R.; and Vandaveer, Roscoe F., 3,460,621.
Howard, Goerge C., 3,472,032.
Hujsak, Karol L., 3,481,399.
Jacoby, Robert H.; Morris, Earl E.; and Robinson, Robert L., Jr., 3,465,823.
Jones, Loyd W., 3,481,869.
Landrum, Ralph A., Jr., 3,432,649.
Landrum, Ralph A., Jr., 3,437,999.
Leach, Robert O., 3,460,623.
Lummus, James L., 3,434,485.
Lummus, James L.; and Park, Arthur, 3,443,482.
Lummus, James L., 3,472,325.
Lummus, James L.; and Randall, Billy V., 3,472,769.
Palm, John W.; and Vandaveer, Roscoe F., 3,477,810.
Satter, Abdus; and Parrish, David R., 3,430,700.
Satter, Abdus; and Craig, Forrest F., Jr., 3,434,544.
Silverman, Daniel, 3,432,648.
Silverman, Daniel, 3,450,225.
Silverman, Daniel, 3,451,478.
Silverman, Daniel, 3,460,501.
Silverman, Daniel, 3,461,420.
Silverman, Daniel, 3,464,490.
Silverman, Daniel, 3,474,404.
Silverman, Daniel, 3,474,459.
Silverman, Daniel, 3,481,426.
Silverman, Daniel, 3,486,571.
Sudduth, Lamar F.; and Sharp, Shelby P., 3,450,629.
Thomas, Roy P., 3,464,489.
Vincent, Renic P., 3,465,817.
Vincent, Renic P.; and Wilder, Lawrence B., 3,472,538.
Vincent, Renic P., 3,481,294.
Vincent, Renic P., 3,486,555.
Vincent, Renic Price; and Wilder, Lawrence B., 3,464,505.
Pan American World Airways, Inc.: *See—*
Cone, Howard M., Jr., 3,478,310.
Pan, John W., to Bell Telephone Laboratories, Incorporated. Transmission of supervisory information. 3,423,534, 1-21-69, Cl. 179-15.
Pan, John W., to Bell Telephone Laboratories, Incorporated. Synchronization of code systems. 3,436,480, 4-1-69, Cl. 178-69.5
Pan, Pei-Tai, to Fairbanks Morse Inc. Electrolytic cell assemblies. 3,432,420, 3-11-69, Cl. 204-216.
Pan, Samuel C.; and Lerner, Leonard J., to Squibb, E. R., & Sons, Inc.Steroid 16α-D-glucosides. 3,451,995, 6-24-69, Cl. 260-210.5
Pan, Samuel C.; Principe, Pacifico A.; and Junta, Barbara, to Squibb, E. R., & Sons, Inc. Synthesis of steroids. 3,431,174, 3-4-69, Cl. 195-51.
Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A., to Squibb, E. R., & Sons, Inc. Synthesis of steroids. 3,429,778, 2-25-69, Cl. 195-51.

Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A., to Squibb, E. R., & Sons, Inc. Synthesis of steroids. 3,429,779, 2-25-69, Cl. 195-51.
Panagiotakis, Nicholas: *See—*
Lessells, Gerald A.; and Panagiotakis, Nicholas,3,458,144.
Panagoulias, Panagiotis L., to United States of America, Army. Method for the qualitative identification of polybutadiene elastomer. 3,479,153, 11-18-69, Cl. 23-230.
Panagoulias, Panagiotis L., to United States of America, Army. Method for the qualitative identification of EPT elastomers. 3,484,202, 12-16-69, Cl. 23-230.
Panagoulias, Panagiotis L., to United States of America, Army. Method for the identification of paracril rubber. 3,486,854, 12-30-69, Cl. 23-230.
Panagoulias, Panagiotis L., to United States of America, Army. Method for the qualitative identification of neoprene. 3,486,855, 12-30-69, Cl. 23-230.
Panagoulias, Panagiotis L., to United States of America, Army. Method for the qualitative identification of polyvinylchloride. 3,486,856, 12-30-69, Cl. 23-230.
Panagoulias, Panagiotis L., to United States of America, Army. Method for the qualitative identification of polyurethane elastomers. 3,486,857, 12-30-69, Cl. 23-230.
Panagoulias, Panagiotis L., to United States of America, Army. Method for the qualitative identification of nitrile elastomers. 3,486,858, 12-30-69, Cl. 23-230.
Panaia, Robert V.; and MacDonnell, Robert W., to Unity Railway Supply Co., Inc. Journal lubricator. 3,443,849, 5-13-69, Cl. 308-243.
Panar, Manuel: *See—*
Nichols, Larry D.; Obermayer, Arthur S.; and Panar, Manuel,3,449,449.
Panascope, Inc.: *See—*
Grossman, Abraham, 3,481,077.
Panavision, Incorporated: *See—*
Gottschalk, Robert E., 3,428,398.
Panciocco, Rocco S. Auxiliary equipment for pickup trucks. 3,471,045, 10-7-69, Cl. 214-83.24
Pancoe, Edward G.; and Smith, Robert L., to Singer-General Precision, Inc. Mechanical motion system. 3,451,146, 6-24-69, Cl. 35-12.
P and S Grain Equipment: *See—*
Stallman, Neal E., 3,469,688.
Pande, Kailash Chandra; and Lengnick, Guenther Fritz, to Stauffer Chemical Company. Room temperature curing organopolysiloxane elasto- mers. 3,471,434, 10-7-69, Cl. 260-37.
Pande, Kailash Chandra; and Ridenour, Richard Eugene, to Stauffer Chemical Company. Room temperature curing organopolysiloxane elastomers. 3,440,206, 4-22-69, Cl. 260-37.
Pande, Kailash Chandra; and Ridenour, Richard Eugene, to Stauffer Chemical Company. Aminoxy silanes. 3,448,136, 6-3-69, Cl. 260-448.2
Pande, Kailash Chandra; and Ridenour, Richard Eugene. Metal organic compounds containing metal-O-N linkage. 3,480,653, 11-25-69, Cl. 260-429.3
Pande, Kailash Chandra: *See—*
Chadha, Rajendra Nath; and Pande, Kailash Chandra,3,470,221.
Chadha, Rajendra Nath; Pande, Kailash Chandra; and Ridenour, Richard Eugene,3,440,205.
Pandell, Nestor W.; and Knebel, Robert W., to Cluett, Peabody & Co., Inc. Apparatus for testing wearability of fabrics. 3,430,480, 3-4-69, Cl. 73-7.
Pandelle, Jean: *See—*
Girault, Jean; and Pandelle, Jean,3,435,448.
Pandjiris, Anthony K., to Pandjiris Weldment Co., The. Welding mechanism. 3,450,858, 6-17-69, Cl. 219-125.
Pandjiris, Anthony K.; and Cooper, Cleveland N., to Pandjiris Weldment Co., The. Gear and method of manufacture. 3,461,738, 8-19-69, Cl. 74-446.
Pandjiris, Anthony K.; and Frederick, Arthur I., to Pandjiris Weldment Co., The. Head and tailstock manipulator. 3,430,944, 3-4-69, Cl. 269-61.
Pandjiris, Anthony K.; and Frederick, Arthur I., to Pandjiris Weldment Co., The. Turning roll assembly. 3,448,877, 6-10-69, Cl. 214-340.
Pandjiris, Anthony K.; and Frederick, Arthur I., to Pandjiris Weldment Co., The. Idler roll assembly. 3,480,158, 11-25-69, Cl. 214-1.
Pandjiris Weldment Co., The: *See—*
Pandjiris, Anthony K.; and Frederick, Arthur I., 3,430,944.
Pandjiris, Anthony K.; and Frederick, Arthur I., 3,448,877.
Pandjiris, Anthony K., 3,450,858.
Pandjiris, Anthony K.; and Cooper, Cleveland N., 3,461,738.
Pandjiris, Anthony K.; and Frederick, Arthur I., 3,480,158.
Wuesthoff, Paul P., 3,472,342.
Pandolfi, Francis P.: *See—*
Blumenfeld, Henry A.; Pandolfi, Francis P.; and Sun, Chih-Ree,3,430,043.
Pandolfi, Richard A., to Potter Instrument Company, Inc. High speed impact printer logic system. 3,453,954, 7-8-69, Cl. 101-93.
Panduit Corporation: *See—*
Caveney, Jack E., 3,485,937.
Panek, Bruno J.; and Woodring, Robert W., to International Harvester Company. Flail knife assembly. 3,422,612, 1-21-69, Cl. 56-294.
Panek, Bruno J.: *See—*
Woodring, Robert W.; Kowalik, John J.; and Panek, Bruno J.,3,423,920.
Panek, George James; and Mocek, Aloysius M., to International Telephone and Telegraph Corporation. Peripheral threaded tang quick-disconnect umbilical connector. 3,452,316, 6-24-69, Cl. 339-45.
Panek, Jiri: *See—*
Brany, Jaroslav; and Panek, Jiri,3,486,616.
Panek, Julian R.; and Goodwin, Donald K., to Thiokol Chemical Corporation. Non-tacky putty compositions comprising a low molecular weight polysulfide and a high molecular weight polysulfide elastomer. 3,466,258, 9-9-69, Cl. 260-30.8
Panek, Mitchell W.: *See—*
Clemens, Ogden A.; Schreuder, Thomas R.; and Panek, Mitchell W.,3,481,746.
Panelstitchers, Inc.: *See—*
Wylie, Harold B., 3,441,994.
Panetta, Michael A.: *See—*
Berardi, Lloyd F.; and Panetta, Michael A.,3,477,450.
Pangalila, Frans V. A., to Flume Stabilization Systems, Inc. Tank stabilizer for ships. 3,470,840, 10-7-69, Cl. 114-125.
Pangalila, Frans V. A.: *See—*
Field, Sheldon B.; and Pangalila, Frans V. A.,3,422,781.
Pangborn Corporation, The: *See—*
Carpenter, James H.; and Bowling, Joseph E., Jr., 3,460,291.
Croft, Charles P.; and Long, William W., III, 3,432,968.
McCormick, William A., Jr., 3,429,744.
Moore, Ralph W., 3,445,966.
Pangier, Douglas John, to Miles Laboratories, Inc., mesne. Lipolyzed milk fat products. 3,469,993, 9-30-69, Cl. 99-59.
Panicci, Richard L.: *See—*
Larson, Welsey S.; Panicci, Richard L.; Thomson, Richard N.; and Osmalov, Jerome S.,3,466,213.
Paniccia, Edoardo: *See—*
Merolli, Mario; and Paniccia, Edoardo,3,438,317.
Paniccia, Sally L.: *See—*
Dersch, Fritz; and Paniccia, Sally L.,3,436,220.
Dersch, Fritz; and Paniccia, Sally L.,3,446,618.
Panigati, Pier Luigi. Removable fastening device. 3,421,786, 1-14-69, Cl. 292-256.65
Panikkar, Mathoor S. R.: *See—*
Spiers, John; and Panikkar, Mathoor S. R.,3,456,627.
Panis, Constantius Johannes Waltherus: *See—*
Bathelt, Robert Richard; and Panis, Constantius Johannes Waltherus,3,422,220.
Panish, Morton B.: *See—*
Casey, Horace C., Jr.; and Panish, Morton B.,3,485,685.
Panissidi, Hugo A., to International Business Machines Corporation. Motion generating mechanism. 3,422,538, 1-21-69, Cl. 33-26.
Panken, Irving, to Olivetti, Ing. C., & C., S.p.A., mesne. Electrostatic printing element comprising a dye sensitized zinc oxide coating on a high resistivity paper backing sheet and a process of using said element. 3,476,559, 11-4-69, Cl. 96-1.7
Pankonin, Earl; and Ohlig, Karl P., to Onsrud Machine Works, Inc. Milling machine. 3,455,205, 7-15-69, Cl. 90-11.
Pankov, Brois Vasilievich: *See—*
Prikhodko, Viktor Ivanovich; and Pankov, Brois Vasilievich,3,460,807.
Pankow, Charles J. Multiple story building ducting system. 3,457,848, 7-29-69, Cl. 98-31.
Pankow, Edmund G., to Westinghouse Electric Corporation. Automatic stirrer. 3,421,743, 1-14-69, Cl. 259-114.
Pankow, Melvin W. Car coupling means for toy trains. 3,479,765, 11-25-69, Cl. 46-242.
Pankow, Paul A. H.: *See—*
Petersen, Kurt H.; and Pankow, Paul A. H.,3,469,077.
Pannell, Dennis Alexander, to Rotax Limited. Rotors for dynamoelectric machines. 3,426,229, 2-4-69, Cl. 310-265.
Pannell, Dennis Alexander, to Rotax Limited. Coil end supports for salient pole rotor. 3,461,331, 8-12-69, Cl. 310-270.
Pannell, Otis R., to United States of America, Navy. Explosive embedment rock anchor. 3,431,880, 3-11-69, Cl. 114-206.
Pannier Corporation, The: *See—*
Rudisch, Walter E.; and Gross, Frank D., 3,441,824.
Pannier, Karl A., Jr., to Le Voy's Inc. Catheter placement unit with unidirectional locking means to prevent catheter retraction. 3,438,373, 4-15-69, Cl. 128-214.4
Pannier, Karl A., Jr.: *See—*
Reynolds, Gordon S.; and Pannier, Karl A., Jr.,3,435,819.
Ring, Wallace H.; Pannier, Karl A., Jr.; and Sorenson, James L.,3,459,183.
Panning, Martin H. Garment hanger. 3,445,045, 5-20-69, Cl. 223-95.
Panno, Francis V.: *See—*
Murov, Isaac I.; Schloff, Morton J.; and Panno, Francis V.,3,480,981.

Pannone, Lester, to Goodrich, B. F., Company, The. Process for manufacturing carpet and rug underlay. 3,423,263, 1-21-69, Cl. 156-79.
Pannwitz, Hans Ulrich K. W. Spinner game device. 3,441,281, 4-29-69, Cl. 273-142.
Panoduz Anstalt: *See—*
Apesteguy, Henri Jean Eugene, 3,448,554.
Panoff, Robert; and Rockwell, Theodore, III, to Westinghouse Electric Corporation. Nuclear reactor containment system. 3,446,171, 5-27-69, Cl. 114-0.5
Panofsky, Wolfgang K. H.; and Marshall, William F., to United States of America, Atomic Energy Commission. Stretched reference wire magnetic pickup alignment system. 3,470,460, 9-30-69, Cl. 324-34.
Panopix Research Inc.: *See—*
Wells, Leon W., 3,446,448.
Wells, Leon W.; and Determann, Fritz, 3,451,750.
Wells, Leon W., 3,454,333.
Wells, Leon W., 3,458,157.
Wells, Leon W., 3,458,251.
Wells, Leon W., 3,460,888.
Wells, Leon W., 3,476,469.
Panouse, Jacques J.: *See—*
Schmitt, Josef; and Panouse, Jacques J.,3,424,747.
Pansing, Nelson J., to General Motors Corporation. Control for surface heaters. 3,423,572, 1-21-69, Cl. 219-449.
Pansteel, Inc.: *See—*
Barnett, William J., 3,434,810.
Pantaleo, Carles A.: *See—*
Granata, Peter C., Jr.; Andrychowski, Edward P.; and Pantaleo, Carles A.,3,446,324.
Pantasote Company of New York, Inc., The: *See—*
Weiss, Hugh R., 3,467,247.
Weiss, Hugh R., 3,478,867.
Pantel, Wolfgang E., to Chicago Pneumatic Tool Company. Apparatus for tightening screw connections to a precise torque. 3,439,754, 4-22-69, Cl. 173-12.
Panther Machine Corporation: *See—*
Grimm, Harold; and Zuckerman, Ira, 3,473,798.
Zuckerman, Ira, 3,434,675.
Pantke, Heinz-Dieter; and Hickmann, Herbert, to Huttenwerk Oberhausen AG. Fluid-control member. 3,430,689, 3-4-69, Cl. 165-47.
Pantke, Heinz-Dieter; and Hickmann, Herbert, to Huttenwerk Oberhausen AG. Furnace for direct reduction of iron ores. 3,450,396, 6-17-69, Cl. 266-20.
Panto, Joseph S.; and Burr, Francis K., to Nujute Incorporated, mesne. Bleaching of jute. 3,472,609, 10-14-69, Cl. 8-111.
Pantos, Athanasius J. Defective circuit detector. 3,444,321, 5-13-69, Cl. 178-69.
Pantos, Athanasius J. Interlock circuit. 3,456,252, 7-15-69, Cl. 340-295.
Panzer, Jerome, to Esso Research and Engineering Company. Mineral lubricating oil containing sulfurized alkylated aryl amine. 3,451,166, 6-24-69, Cl. 252-47.5
Panzer, Jerome, to Esso Research and Engineering Company. Ashless dispersant-inhibitors and petroleum hydrocarbons containing the same. 3,468,798, 9-23-69, Cl. 252-47.
Panzer, Jerome; Longosz, Edward J.; Staffin, Gerald D.; and Goodson, Robert M., to Esso Research and Engineering Company. Friction reducing additive comprising metal soap solubilized in oil by an N-containing dispersant. 3,446,737, 5-27-69, Cl. 252-34.7
Panzer, Jerome: *See—*
Younghouse, Edwin C.; and Panzer, Jerome,3,458,495.
Panzer, Joyce C. Hand actuated paper bag novelty. 3,442,043, 5-6-69, Cl. 46-11.
Panzica, Nicholas J.: *See—*
Arnold, Orlan M.; Hanson, Victor W.; Jamison, Robert M.; Panzica, Nicholas J.; and Umbricht, Emil,3,475,881.
Panzica, Nicholas J.; Jamison, Robert M.; and Umbricht, Emil, to Ajem Laboratories, Inc. High capacity gas washer. 3,444,669, 5-20-69, Cl. 55-230.
Pao, John. Vertical drafting apparatus. 3,483,625, 12-16-69, Cl. 33-79.
Pao, Yoh-han; and Rentzepis, Peter M., to Bell Telephone Laboratories, Incorporated. Second harmonic generator. 3,431,484, 3-4-69, Cl. 321-69.
Pao, Yoh-Han: *See—*
Griffiths, James E.; Pao, Yoh-Han; and Zitter, Robert N.,3,426,208.
Kuebler, Norman A.; Pao, Yoh-Han; and Robin, Melvin B.,3,428,388.
Paoletti, Giovanni. Laminated beehive and frame support therein. 3,439,364, 4-22-69, Cl. 6-2.
Paoli, Andre G., to Compagnie General des Produits Industriels et de Synthese C.O.G.E.P.R.I.S.. Method for extruding objects of plastic material. 3,484,513, 12-16-69, Cl. 264-148.
Paoli, August J. Stand for baseless cylinders. 3,461,728, 8-19-69, Cl. 73-426.
Paolone, Ernest A. Water ski cycle. 3,442,246, 5-6-69, Cl. 115-70.
Papa, Anthony J., du Pont de Nemours, E. I., and Company. Guanidinium azides. 3,429,879, 2-25-69, Cl. 260-246.
Papa, Frank J., Jr., to Industrial Timer Corporation. Time delay timer. 3,427,412, 2-11-69, Cl. 200-38.
Papa, Pellegrino: *See—*
Bonner, Glenn H.; Doman, Robert C.; Iseli, Robert W.; and Papa, Pellegrino,3,487,136.
Papa, Sisto Sergio: *See—*
Moiso, Ugo; and Papa, Sisto Sergio,3,475,405.
Papadopoulos, Antonios: *See—*
Schaus, Orland Otto; and Papadopoulos, Antonios,3,437,490.
Papadopoulos, Athanasios: *See—*
Why, John Frederick; and Papadopoulos, Athanasios,3,467,788.
Papadopulos, Michael Savvas: *See—*
Gahir, Avtar Singh; and Papadopulos, Michael Savvas,3,453,372.
Papadopulos, Michael Savvas, to British Insulated Callender's Cables Limited. Connections for hollow electric conductors. 3,469,014, 9-23-69, Cl. 174-22.
Papaleonidas, George Ioannon. Transformer system including a large number of magnetically independent transformer elements. 3,477,016, 11-4-69, Cl. 323-48.
Papalia, Rocco, to Kaiser Gypsum Company, Inc. Composite wall construction. 3,478,479, 11-18-69, Cl. 52-361.
Papay, Andrew George: *See—*
Papayannopoulos, Andreas G.; and Papay, Andrew George; now by judicial change of name,3,446,739.
Papayannis, Antonia; Zorn, Bruno; and Spahrkas, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Combined zirconium, aluminum, and chrome tannage. 3,423,162, 1-21-69, Cl. 8-94.25
Papayannopoulos, Andreas G.; and Papay, Andrew George; now by judicial change of name, to Mobil Oil Corporation. Hydrocarbon lubricating compositions containing mixtures of an alkyl phosphite and fatty acid esters for imparting limited-slip properties. 3,446,739, 5-27-69, Cl. 252-49.8
Papayoti, Hristo V.: *See—*
Attwood, Charles W.; and Papayoti, Hristo V.,3,421,280.
Papayoti, Hristo V., to Unistrut Corporation. Space frame support structures. 3,443,348, 5-13-69, Cl. 52-299.
PAPCEL, strojirny pro prumysl celulosy a papiru narodni podnik: *See—*
Kmeco, Rudolf, 3,486,702.
Pape, Martin: *See—*
Beckmann, Wilhelm; Kengelbach, Werner Ludwig; Metzger, Horst; and Pape, Martin,3,476,669.
Papee, Denis: *See—*
Michel, Max; and Papee, Denis,3,433,588.
Papelian, Roger G.; and Budzyna, Walter James, to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Photofeeler system and method for filling detection in looms. 3,444,903, 5-20-69, Cl. 139-273.
Papelian, Roger G.; and Fontaine, Andre J., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Loom stopping mechanism. 3,442,300, 5-6-69, Cl. 139-341.
Papendick, Paul; and Curley, Henry, to Diamond Shamrock Corporation. Package utilizing sheet separators in packaging articles with foamed resin within a corrugated box. 3,464,541, 9-2-69, Cl. 206-46.
Papenguth, Richard P., to Parker-Hannifin Corporation. Journal box sealing device. 3,432,173, 3-11-69, Cl. 277-29.
Paper & Corrugated Specialties Co.: *See—*
Haines, Russell R., 3,461,647.
Paper Converting Machine Company: *See—*
Sanders, Charles J.; and Merkatoris, John R., 3,466,979.
Paper Converting Machine Company, Inc.: *See—*
Meade, Ross C.; and Sanders, Charles J., 3,438,324.
Nystrand, Ernst Daniel; and Bradley, John J., 3,459,388.
Paper Extrusions Co.: *See—*
Liebel, Henry L., 3,433,354.
Paper Mate Manufacturing Company: *See—*
Malm, Curtis L., 3,420,610.
Paper, Roland K.; and Smyers, Robert D., to Automatic Cabinet Company. Pipe cleaner. 3,438,380, 4-15-69, Cl. 131-232.
Paper Ware Ltd.: *See—*
Schultz, Arthur Haym Gold, 3,452,363.
Paperone Corporation: *See—*
Lynch, Ira R., 3,425,325.
Papetti, Stelvio: *See—*
Heying, Theodore L.; and Papetti, Stelvio,3,440,265.
Heying, Theodore L.; and Papetti, Stelvio,3,450,739.
Papetti, Stelvio, to Olin Mathieson Chemical Corporation. Poly-m-carboranylenesiloxane process. 3,457,222, 7-22-69, Cl. 260-46.5
Papetti, Stelvio, to Olin Mathieson Chemical Corporation. Poly-*p*-carboranylenesiloxanes. 3,457,223, 7-22-69, Cl. 260-46.5
Papetti, Stelvio; and Schroeder, Hansjuergen A., to Olin Mathieson Chemical Corporation. Random poly-m-carboranylenesiloxane copolymers. 3,463,801, 8-26-69, Cl. 260-448.2
Papi, Gene A.: *See—*
Horvath, Tibor, 3,439,548.

Papin, Joseph E., to Wagner Electric Corporation. Warning valve for a dual fluid pressure system. 3,427,416, 2-11-69, Cl. 200-82.
Papineau, Milton D.; and Routh, Claude C., to United States of America, Navy. Passive sonar bearing and frequency detecting and indicating system. 3,462,729, 8-19-69, Cl. 340-6.
Papke, Friedrich: *See—*
Rehn, Heinz; Papke, Friedrich; and Greger, Paul,3,484,053.
Papke, Wolfgang: *See—*
Buttner, Gerhard; Bushmann, Klaus; Papke, Wolfgang; and Philipp, Herbert,3,444,328.
Papousek, Robert D. Tension and equalizer spring for vehicles. 3,464,688, 9-2-69, Cl. 267-34.
Papp, Grace Peters; and Clapp, James Wellington,, to American Cyanamid Company. Amine cyanoferrates and methods for preparing same. 3,429,907, 2-25-69, Cl. 260-439.
Papp, Grace Peters; and Clapp, James Willington, to American Cyanamid Company. Method for control of algae growth. 3,443,924, 5-13-69, Cl. 71-67.
Papp, Louis S.: *See—*
Brown, Richard E.; and Papp, Louis S.,3,472,002.
Pappalardo, Salvatore: *See—*
Lubatti, Eugenio; and Pappalardo, Salvatore,3,420,629.
Lubatti, Eugenio; Pappalardo, Salvatore; and Mirarchi, Ugo,3,468,992.
Pappalardo, Thomas J., to Varian Associates. Microwave shutter. 3,440,577, 4-22-69, Cl. 333-98.
Pappas, George Demo; and Hoover, Alex Kay, to Fruehauf Corporation. Refuse loader with toggle action. 3,456,821, 7-22-69, Cl. 214-83.3
Pappas, George Demo: *See—*
Wilson, Davis Douglas; and Pappas, George Demo,3,452,891.
Pappas, George W., to Sanders Associates, Inc. Shaping circuit. 3,452,223, 6-24-69, Cl. 307-320.
Pappas, Lambros A. Hydraulic tie rod nut. 3,424,080, 1-28-69, Cl. 100-214.
Pappo, Raphael; and Scaros, Mike G., to Searle, G. D., & Co. Process for manufacture of (optionally-2-alkylated) cyclopentane-1,3-diones. 3,444,206, 5-13-69, Cl. 260-586.
Papps, Jon D., to National Plastic Products Co., Inc. Process for spinning elastic polypropylene fibers. 3,432,590, 3-11-69, Cl. 264-210.
Papritz, Hans, to Haag-Streit A.G. Device for fine adjustment of optical instruments. 3,463,579, 8-26-69, Cl. 351-38.
Papst, Georg Friedrich. Propeller fan. 3,431,978, 3-11-69, Cl. 170-159.
Papst, Georg. Cassette type tape recorder having a horizontal displaceable cassette holding deck. 3,475,563, 10-28-69, Cl. 179-100.2
Papst, Hermann Ernst. Airship. 3,456,903, 7-22-69, Cl. 244-30.
Papst, Hermann. Boundary layer control. 3,435,654, 4-1-69, Cl. 72-340.
Papst, Hermann. Boundary layer control means. 3,471,090, 10-7-69, Cl. 239-127.1
Paptzun, George J., to Rockwell Manufacturing Company. Grooved valve disc. 3,450,385, 6-17-69, Cl. 251-334.
Papworth, Walter A. Rhythm clock. 3,472,018, 10-14-69, Cl. 58-4.
Paquette, Charles F.: *See—*
Sedlock, Edward J.; Paquette, Charles F.; and Selfors, Henry J.,3,471,727.
Paquette, Cyril D., to Taylor & Gaskin, Inc. Stacking machine. 3,469,714, 9-30-69, Cl. 214-6.
Paquette, Elmer G., to Bjorksten, Johan. Advertising display. 3,477,157, 11-11-69, Cl. 40-126.
Paquette, Elmer Gordon, to Bjorksten Research Laboratories, Inc. Pen clips. 3,478,393, 11-18-69, Cl. 24-11.
Paquette, Kenneth N., to Shaw-Walker Company, The. Chair base. 3,439,893, 4-22-69, Cl. 248-405.
Paquette, Leo A., to Upjohn Company, The. Certain aminoxyethyl derivatives of 2(1H)- pyridones. 3,431,270, 3-4-69, Cl. 260-296.
Paquette, Leo A., to Upjohn Company, The. Certain diazatricyclododecadienones and their preparation. 3,432,507, 3-11-69, Cl. 260-293.
Paquette, Leo A., to Upjohn Company, The. Diazatricyclododecanediones and diazatricyclododeca- diendiones. 3,466,292, 9-9-69, Cl. 260-294.
Paquin, Leon J.; Mosher, Owen D.; and Violette, Glenn M., to International Paper Company. Coated paper and method of producing the same. 3,448,000, 6-3-69, Cl. 161-250.
Paquin, Roger Lee, to Glacier Ware, Inc. Cooling device for beverage containers. 3,436,932, 4-8-69, Cl. 62-457.
Paquin, Roger L.: *See—*
Stoner, Arthur M.; Schneider, Richard C.; and Paquin, Roger L.,3,434,302.
Par-Way Mfg. Co.: *See—*
Beaman, Norman V., 3,424,128.
Beaman, Norman V., 3,426,165.
Parachek, Ralph A., to Mill & Factory Supply Company. Apparatus for holding chain. 3,421,265, 1-14-69, Cl. 51-98.
Parachutes Incorporated: *See—*
Istel, Jacques A.; and Guilfoyle, Le Roy F., 3,437,295.
Paradine, Christopher, to Elliott Brothers (London) Limited. Clocked bistable tunnel-diode logic circuit. 3,441,746, 4-29-69, Cl. 307-206.
Paradis, Joseph R.: *See—*
Des Ormeaux, John A.; and Paradis, Joseph R.,3,468,269.
Paradise, Mose L. Dismantlable pegged target. 3,421,762, 1-14-69, Cl. 273-104.
Paradise, Ronald Y., to General Precision Inc. Circuit for converting three-phase potentials into two-phase potentials. 3,453,548, 7-1-69, Cl. 328-24.
Paradiso, Dominick. Vacuum cleaner wall adapter. 3,483,503, 12-9-69, Cl. 339-15.
Paragamian, Vasken, to McNeil Laboratories, Inc. 4-Tetrahydropyridylacrylic acid derivatives. 3,426,030, 2-4-69, Cl. 260-295.
Paragamian, Vasken, to Mc Neil Laboratories, Inc.Indeno [1,2,-c] pyridine derivatives. 3,462,443, 8-19-69, Cl. 260-294.
Paragamian, Vasken, to McNeil Laboratories, Inc. 2- and 3-(4-piperidyl) indanes and indanols. 3,476,759, 11-4-69, Cl. 260-293.
Paramedical Research and Development Corporation: *See—*
Johnson, James E.; Priest, Clifford G.; Lackey, Gerald F.; and Swonger, Kenneth D., 3,472,455.
Parametrics, Inc.: *See—*
Carnevale, Edmund H.; Lynnworth, Lawrence C.; and Lawson, Ronald N., 3,425,064.
Lynnworth, Lawrence C., 3,423,993.
Lynnworth, Lawrence C., 3,477,278.
Paramount Packaging Corporation: *See—*
Davis, Francis A., Jr., 3,460,441.
Davis, Francis A., Jr., 3,470,795.
Davis, Francis A., Jr.;, 3,481,051.
Paramount Textile Machinery Co.: *See—*
Horberg, Charles, Jr., 3,431,696.
Horberg, Charles, Jr., 3,481,516.
Paramythioti, Jean Michel, to Societe Anonyme des Ancien Etablissements Albaret. Self-propelled compactor roller. 3,434,557, 3-25-69, Cl. 180-6.48
Parapetti, Nicolas. Universally adjustable dial indicator holder. 3,442,478, 5-6-69, Cl. 248-284.
Paratte, Daniel: *See—*
Hermann, Jean; Paratte, Daniel; and Forrer, Max,3,484,804.
Parbery, Cyril John: *See—*
Gibbons, Peter Frederick; Knight, David John; Neal, Brian Patrick; and Parbery, Cyril John,3,456,988.
Parcell, Robert F.: *See—*
Nordin, Ivan C.; and Parcell, Robert F.,3,446,811.
Parcell, Robert Ford, to Parke, Davis & Company. Aminoalkylcarbamate esters. 3,452,031, 6-24-69, Cl. 260-294.3
Pardes, Herman I., to United States of America, Army. Thermal, moving target, intrusion detector. 3,475,608, 10-28-69, Cl. 250-83.3
Pardes, Herman I.; and Mount, John W., to United States of America, Army. Target location coordinate encoding technique. 3,483,556, 12-9-69, Cl. 343-6.
Pardoe, Carroll T., to United States of America, Navy. Time interval plotting apparatus for an input pulse series. 3,453,541, 7-1-69, Cl. 324-77.
Pardue, Don R., to United States of America, Army. Driven-boundary piezoelectric crystals. 3,465,178, 9-2-69, Cl. 310-9.7
Pardue, George H., to Schlumberger Technology Corporation. Core-sampling apparatus. 3,429,383, 2-25-69, Cl. 175-4.
Pardy, Ronald P., to Ford Motor Company. Motor vehicle heating and ventilating system. 3,427,950, 2-18-69, Cl. 98-2.
Parechanian, Haig S.; and Schutzler, Jerome C., to United States of America, Navy, mesne. Leading edge for hypersonic vehicle. 3,430,898, 3-4-69, Cl. 244-123.
Parechoc S. A. Le Sentier: *See—*
Annen, Robert, 3,447,528.
Paredes, Andrew, to Ford Motor Company. Hydrokinetic torque converter transmission with mechanical overdrive. 3,473,411, 10-21-69, Cl. 74-688.
Pareja, Ramon: *See—*
Cook, Ernest E.; and Pareja, Ramon,3,431,865.
Parent, John W.: *See—*
De Remer, James E.; Herringshaw, Tobias J.; and Parent, John W.,3,451,534.
Parent, Pierre. Multitrack snow vehicle. 3,455,405, 7-15-69, Cl. 180-9.46
Parent, Richard Alfred: *See—*
Davis, Stanley Myron; Kraebel, Charlotte Marie; and Parent, Richard Alfred,3,481,792.
Parente, Alexander A. Soldering and desoldering tool. 3,443,733, 5-13-69, Cl. 228-20.
Parente, Michael, to Bell Telephone Laboratories, Incorporated. Power supply system with automatically sub- stituted redundant inverter. 3,424,995, 1-28-69, Cl. 331-49.
Pares Corominas, Juan, 1/2 to Ricard, Jean R., and 1/2 to Laboratories Om Societe Anonyme. Internal salt of scopolamine. 3,484,444, 12-16-69, Cl. 260-292.

Paret, Pierre, to Compagnie des Ateliers et Forges de la Loire. Surface treating process for metal parts. 3,420,755, 1-7-69, Cl. 204-32.

Parez, James J.: *See—*
Schmid, Gerald E.; and Parez, James J.,3,423,618.

Parfenova, Gali Alexandrovna: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Parfit, Raymond H., to Campbell, Gifford & Morton Limited. Ingot withdrawal means for continuous casting. 3,438,426, 4-15-69, Cl. 164-282.

Parfomak, Walter: *See—*
Molnar, Robert J.; and Parfomak, Walter,3,427,609.
Molnar, Robert J.; and Parfomak, Walter,3,440,637.

Parfomak, Walter; and Molnar, Robert J., to Bendix Corporation, The. Brightness regulator for an electroluminescent lamp using a bridge the output of which controls the frequency of a variable frequency oscillator. 3,427,458, 2-11-69, Cl. 250-205.

Parham, O D, to Hughes Aircraft Company. Current pulse circuit. 3,487,315, 12-30-69, Cl. 328-59.

Paricio, Ramon, Jr.: *See—*
Landes, Benjamin Daniel; Paricio, Ramon, Jr.; and Andrews, Richard E.,3,462,090.

Paricio, Ray: *See—*
Landes, Benjamin D.; and Paricio, Ray,3,430,393.

Parikh, Anil Chandrakant: *See—*
Jenkins, Donald Glyn; and Parikh, Anil Chandrakant,3,473,316.
Jenkins, Donald Glyn; and Parikh, Anil Chandrakant,3,474,612.

Parikh, Anil Chandrakant; and Daniels, Barrie, to British Nylon Spinners Limited. Bulked yarns. 3,470,684, 10-7-69, Cl. 57-140.

Parikh, Jekishan R.; and Doering, William Von E., to Upjohn Company, The. Process for the oxidation of primary and secondary alcohols. 3,444,216, 5-13-69, Cl. 260-397.45

Parikh, Niranjan M. Alloyed metallic powder process. 3,424,572, 1-28-69, Cl. 75-0.5

Parillo, Vincent: *See—*
Shapiro, Laurence L.; and Parillo, Vincent,3,472,385.

Paris, Jacques Maurice; Merlin, Jean-Claude; and Parks, Rene Antoine. Methods of manufacturing metallic oxides and in particular mixed metallic oxides and their solid solutions. 3,484,376, 12-16-69, Cl. 252-62.3

Paris, Olden E., to Du Pont de Nemours, E. I., and Company. Preparation of polyesters containing boron and nitrogen. 3,441,542, 4-29-69, Cl. 260-78.4

Parish, Albert A., to K-M-P Pump Company, Inc. Pump sucker rod counterbalance. 3,435,689, 4-1-69, Cl. 74-41.

Parish, Albert A. Flow responsive pump prime mover cutoff. 3,452,678, 7-1-69, Cl. 103-25.

Parish, Clyde E.: *See—*
Anderson, John E.; Parish, Clyde E.; and Ross, George H.,3,445,497.

Parish, Colin Clive: *See—*
Holister, Geoffrey Stanley; Luxmoore, Anthony Rodger; and Parish, Colin Clive,3,453,739.

Parish, Geoffrey James, to Cotton Silk and Man-Made Fibres Research Association. Process for metallizing fabrics. 3,476,629, 11-4-69, Cl. 156-251.

Parish, Norman Arthur, to Rotax Limited. Ignition circuits. 3,440,490, 4-22-69, Cl. 315-273.

Parish, Sammie M. Steering apparatus for a swamp boat. 3,430,603, 3-4-69, Cl. 115-35.

Parisi, Joseph J. Chance controlled racing game apparatus. 3,462,151, 8-19-69, Cl. 273-134.

Parisi, Michael J., to Vending Components, Inc. Beer keg fitting with limit stops. 3,467,132, 9-16-69, Cl. 137-323.

Parisi, Tulio: *See—*
Balamuth, Lewis; and Parisi, Tulio,3,483,611.

Parisien, Rudolph Edgar. Chain link fabric fastener. 3,420,081, 1-7-69, Cl. 72-139.

Parisse, Louis L., to Koppers Company, Inc. Process for separation of alkyl phenols by azeotropic distillation with a 10-13 carbon atom alkene. 3,483,094, 12-9-69, Cl. 203-70.

Parizek, Earl: *See—*
Nelson, Kenneth E.; Kipfmiller, Billy G.; and Parizek, Earl,3,429,942.

Parizot, Daniel: *See—*
Richez, Jacques; Dubois, Andre; Battentier, Jean-Claude; Thoris, Jean; and Parizot, Daniel,3,475,627.

Park, Arthur: *See—*
Estes, Jack C.; and Park, Arthur,3,472,768.
Lummus, James L.; and Park, Arthur,3,443,482.

Park, Bum Suh, to Automatic Electric Laboratories, Inc. Telephone hookswitch unit. 3,422,231, 1-14-69, Cl. 179-165.

Park Chemical Company: *See—*
Fox, Charles R., 3,453,151.

Park, Donald S. Typeface cleaner. 3,477,083, 11-11-69, Cl. 15-104.

Park, Francis W.; Blough, Arthur K.; Noll, Stanley Darwin; Delfeld, William F.; Kraus, George I.; and Kraus, Robert, to Republic Steel Corporation, mesne. Apparatus for conveying and distributing articles in a confined region. 3,439,794, 4-22-69, Cl. 198-83.

Park, Im Keun, to Freudenberg, Carl. Oxymethylene polymer containing a modifying component. 3,485,799, 12-23-69, Cl. 260-67.

Park, James H., III; Redmon, James R.; and Leverett, Wilton H., to Maintenance Engineering Corporation. Valve. 3,450,383, 6-17-69, Cl. 251-165.

Park, Jerald L., to Avco Corporation. Face-type shaft seal. 3,439,923, 4-22-69, Cl. 277-62.

Park, Jeun Young. Tilting mechanism for automobile. 3,439,930, 4-22-69, Cl. 280-111.

Park, John C., to Goodrich, B. F., Company, The. Unsaturated interpolymers of linear aliphatic heptadienes and/or heptatrienes and alpha- olefins. 3,480,599, 11-25-69, Cl. 260-80.7

Park, John J., to United States of America, National Aeronautics and Space Administration. Method of making tubes. 3,465,567, 9-9-69, Cl. 72-364.

Park, Jon K.: *See—*
Park, Robert C.; and Park, Jon K.,3,478,430.

Park, Jong C.: *See—*
Kirss, Voldemar; and Park, Jong C.,3,420,752.

Park, Joseph: *See—*
Ferguson, Ian; Hall, Robert Arthur; and Park, Joseph,3,458,458.

Park, Maurice S.Jeweler's bench work clamp. 3,484,095, 12-16-69, Cl. 269-235.

Park, Robert C.; and Park, Jon K. Combined air, water, and spray apparatus for dentistry. 3,478,430, 11-18-69, Cl. 32-28.

Park, Robert O.: *See—*
Solum, James R.; and Park, Robert O.,3,424,245.

Park, Vernon K.: *See—*
Hagemeyer, Hugh John, Jr.; and Park, Vernon K.,3,423,384.

Park-Ohio Industries, Inc.: *See—*
Adams, Graham R., 3,466,528.
Balzer, Norbert R., 3,466,414.
Easley, Ralph S.; and Meyer, Donald J., 3,467,805.
Kauffman, Harry D., 3,433,918.
Laughlin, John R.; and Soworowski, David R., 3,433,469.
Pfaffman, George D.; and Armstrong, Robert G., 3,446,495.
Porterfield, Cecil P.; and Adams, Graham R., 3,475,674.

Parke, Davis & Company: *See—*
Blanford, William F., 3,452,750.
Capps, David B., 3,475,446.
Cavalla, John Frederick, 3,462,452.
Davoll, John, 3,471,498.
Davoll, John, 3,472,851.
De Wald, Horace A., 3,462,446.
De Wald, Horace Albert, 3,436,393.
De Wald, Horace Albert, 3,453,282.
Doub, Leonard, 3,422,152.
Elslager, Edward Faith; and Worth, Donald Francis, 3,452,059.
Fleming, Robert W.; and Hauck, Fred P., Jr., 3,457,270.
Hanessian, Stephen; and Schutze, Gunter R., 3,457,257.
Hanessian, Stephen, 3,472,838.
Kaltenbronn, James S., 3,467,710.
Kaltenbronn, James S., 3,468,939.
Lee, Hen N.; and Van House, Russell W., 3,426,084.
Meyer, Robert F., 3,441,570.
Morrow, Duane F., 3,427,331.
Nordin, Ivan C.; and Parcell, Robert F., 3,446,811.
Noren, Oscar B., 3,470,925.
Noren, Oscar B., 3,486,982.
Parcell, Robert Ford, 3,452,031.
Rebstock, Mildred C., 3,475,470.
Scherrer, Robert A., 3,458,519.
Scherrer, Robert A., 3,476,770.
Scherrer, Robert Allan; and Short, Franklin Willard, 3,420,871.
Scherrer, Robert Allan, 3,471,559.
Westland, Roger D., 3,453,308.
Westland, Roger D., 3,453,309.

Parke, Franklin E.: *See—*
Ross, Hugh; and Parke, Franklin E.,3,425,688.

Parke, Friedrich; and Golombek, Horst, to Voigtlander, A.G. Photographic camera with only one cartridge chamber. 3,459,110, 8-5-69, Cl. 95-31.

Parker, Almon S.: *See—*
Chu, Arthur S.; and Parker, Almon S.,3,473,887.

Parker, Alva D. Equipment operating time recorder. 3,429,121, 2-25-69, Cl. 58-145.

Parker, Arthur H.; and Sherick, John P., to Du Pont de Nemours, E. I., and Company. Chlorinated solvent compositions containing phosphoric acid for stabilization and for phosphatizing of metals. 3,475,228, 10-28-69, Cl. 148-6.15

Parker, Barry Norman, to Crosfield Electronics Limited. Identification of digital signals resulting from scanning recorded characters. 3,461,427, 8-12-69, Cl. 340-146.3

Parker, Bernard, to Singer-General Precision, Inc. Wide angle attitude sensing means. 3,457,794, 7-29-69, Cl. 74-5.6
Parker, Bernard: *See—*
De Cotiis, Constant J.; Parker, Bernard; and Riordan, Hugh E.,3,438,269.
DeCotiis, Constant J.; and Parker, Bernard,3,486,384.
Parker, Bruce H., Jr. Centrifugal water-action roller cleaner. 3,472,251, 10-14-69, Cl. 134-138.
Parker, Charles A., to Litton Business Systems, Inc. Tag feed device. 3,469,754, 9-30-69, Cl. 226-68.
Parker, Daniel, to Parker Pen Company, The. Cartridge repeater pencil. 3,437,413, 4-8-69, Cl. 401-67.
Parker, Darrell D.: *See—*
McCammon, Robert F.; and Parker, Darrell D.,3,465,938.
Parker, David J. Stenographic typewriter with mnemonic means. 3,465,865, 9-9-69, Cl. 197-9.
Parker, Delbert R., to Uptegraff, R. E., Manufacturing Company. Method of manufacturing electrical induction coils. 3,464,109, 9-2-69, Cl. 29-605.
Parker, Earl E., to PPG Industries, Inc. Ethylene glycol-based, organic solvent-resistant polyester resins. 3,435,094, 3-25-69, Cl. 260-872.
Parker, Earl E., to PPG Industries, Inc. Air-drying unsaturated polyester resins prepared from a polyol and an adduct of cyclopentadiene and a dicarboxylic acid. 3,448,066, 6-3-69, Cl. 260-22.
Parker, Earl E.: *See—*
Rabenold, Ronald R.; and Parker, Earl E.,3,449,276.
Parker Electronics, Inc.: *See—*
McTeigue, Hugh P., 3,466,046.
Parker, Fate E. Sanding tool. 3,432,975, 3-18-69, Cl. 51-392.
Parker, Frank H., to Peplin, Stephen C. Sealing means for valve ports. 3,472,484, 10-14-69, Cl. 251-172.
Parker, Fred D.: *See—*
Padberg, Louis R., Jr.; Parker, Fred D.; and Markland, Merwin R.,3,453,588.
Parker, Fred W., to Du Pont de Nemours, E. I., and Company. Coating composition of a methacrylate polymer/cellulose acetate butyrate/sucrose benzoate. 3,477,969, 11-11-69, Cl. 260-17.
Parker, Gary L., to California Institute Research Foundation, mesne. Hydraulic drain means for servo-systems. 3,478,514, 11-18-69, Cl. 60-53.
Parker, George E., to Woodward Governor Company. Gas turbine speed governor with acceleration fuel schedule. 3,469,397, 9-30-69, Cl. 60-39.28
Parker, George H.: *See—*
Mahon, John V.; and Parker, George H.,3,456,841.
Parker, George W., to United States of America, Atomic Energy Commission. Radiation plug for a particle accelerator beam tube. 3,473,029, 10-14-69, Cl. 250-108.
Parker, George, to Stewarts and Lloyds Limited. Expanding tool for use with a tubular workpiece. 3,466,920, 9-16-69, Cl. 72-393.
Parker, Gerald R.; and Verdibello, Ambrose A., to International Business Machines Corporation. Pulse amplitude detection circuit. 3,478,255, 11-11-69, Cl. 320-1.
Parker, Harry W., to Phillips Petroleum Company. Hydro-electropyrolysis of oil shale in situ. 3,428,125, 2-18-69, Cl. 166-248.
Parker, Harry W., to Phillips Petroleum Company. Steam drive oil production process. 3,439,741, 4-22-69, Cl. 166-272.
Parker, Harry W., to Phillips Petroleum Company. Insulating a casing and tubing string in an oil well for a hot fluid drive. 3,451,479, 6-24-69, Cl. 166-303.
Parker, Harry W., to Phillips Petroleum Company. Producing oil from nuclear-produced chimneys in oil shale. 3,454,958, 7-8-69, Cl. 166-256.
Parker, Harry W., to Phillips Petroleum Company. In-situ production of oil from strata of low permeability. 3,456,731, 7-22-69, Cl. 166-11.
Parker, Harry W., to Phillips Petroleum Company. Thermal oil recovery process utilizing decomposition of CO. 3,457,996, 7-29-69, Cl. 166-11.
Parker, Harry W., to Phillips Petroleum Company. Recovering oil from nuclear chimneys in oil-yielding solids. 3,460,620, 8-12-69, Cl. 166-11.
Parker, Harry W.; and Meldau, Robert F., to Phillips Petroleum Company. Emergency cooling apparatus for a production well. 3,457,993, 7-29-69, Cl. 166-53.
Parker Instrument Corporation: *See—*
Baron, Albert A.; and Nagy, Francis G., 3,435,341.
Parker, James Brown: *See—*
Dinwoodie, Andrew Harper; Fort, Godfrey; and Parker, James Brown,3,431,261.
Parker, James Brown, to United States of America, Navy, mesne. Process for preparing 4,5-bis (difluoramino)-imidazolidin-2-one. 3,433,800, 3-18-69, Cl. 260-309.7
Parker, James E. Threaded ball seat retainer block. 3,467,402, 9-16-69, Cl. 279-30.
Parker, James F., Jr.; and Mills, George M., to United States of America, Navy, mesne. Flash blindness indoctrination trainer. 3,452,451, 7-1-69, Cl. 35-12.
Parker, John Mulvin: *See—*
Wasson, Burton Kendall; and Parker, John Mulvin,3,450,719.
Parker, Joseph L.: *See—*
Valentine, Lamar T., 3,458,105.
Valentine, Lamar T., 3,458,106.
Parker, Kenneth Frederick. Game apparatus comprising oppositely facing playing boards. 3,473,808, 10-21-69, Cl. 273-131.
Parker, Konrad, to Addressograph-Multigraph Corporation. Process for developing diazotype materials. 3,446,620, 5-27-69, Cl. 96-49.
Parker, Laurence R.: *See—*
Rivas, Alberto Q.; Parker, Laurence R.; and Jones, Terrell M.,3,457,890.
Parker, Leslie Kearton; and Leane, John Bryant, to Perkin-Elmer Limited. Magnetic sheild arrangement for a high flux homogeneous field-producing magnet. 3,423,670, 1-21-69, Cl. 324-0.5
Parker, Levi C.: *See—*
Senn, Charles A., III; and Parker, Levi C.,3,458,592.
Senn, Charles A., III; and Parker, Levi C.,3,458,593.
Parker, Louis W. Stator assemblies for axial airgap machines. 3,484,636, 12-16-69, Cl. 310-268.
Parker Manufacturing Company: *See—*
LaPointe, Gabriel M., 3,480,055.
Parker, Mildred H. Ringlet curler. 3,464,426, 9-2-69, Cl. 132-123.
Parker, Otis J., to United States of America, National Aeronautics and Space Administration. Ullage compensator. 3,473,333, 10-21-69, Cl. 60-259.
Parker, Owen Gordon: *See—*
De Rycke, Douglas August Charles; and Parker, Owen Gordon,3,434,806.
Parker Pace Corporation: *See—*
Port, Morton I.; and Schwartz, Bernard L., 3,439,865.
Port, Morton I.; and Schwartz, Bernard L., 3,445,055.
Parker, Patrick Neiland: *See—*
Fry, William Charles David; Parker, Patrick Neiland; Ross, William M., Jr.; and Parry, Jimmy H.,3,447,608.
Parker, Patrick N.; and Wahl, Winton W., to Dow Chemical Company, The. Method of inhibiting lost circulation from a wellbore. 3,448,800, 6-10-69, Cl. 166-294.
Parker Pen Company, The: *See—*
Douglas, Robert L., 3,458,266.
Dyson, John J., 3,486,912.
Johnson, Paul C., 3,442,739.
Parker, Daniel, 3,437,413.
Spillman, Kenneth W., 3,439,989.
Parker, Phillip H., Jr., to Chevron Research Company. B-Stage unsaturated polyester resins and prepregs usine 2-5 dialkyl benzoquinone. 3,429,950, 2-25-69, Cl. 260-866.
Parker, Ralph L.: *See—*
Lapointe, Lloyd J.; and Parker, Ralph L.,3,451,916.
Parker, Rienzi B.: *See—*
Smith, Walter J.; and Parker, Rienzi B.,3,434,348.
Parker, Robert J. Ball gripping and throwing apparatus. 3,428,036, 2-18-69, Cl. 124-5.
Parker, Robert, to United States of America, Atomic Energy Commission. Apparatus for determining mechanical and thermal properties of metals. 3,433,051, 3-18-69, Cl. 73-15.
Parker, Robin J.: *See—*
Hallman, Newt M.; and Parker, Robin J.,3,481,864.
Parker, Robin J., to Universal Oil Products Company. Method for hydrogenation. 3,451,922, 6-24-69, Cl. 208-57.
Parker, Robin J., to Universal Oil Products Company. Method for selective hydrogenation of diolefins with separation of gum formers prior to the reaction zone. 3,457,163, 7-22-69, Cl. 208-255.
Parker, Robin J., to Universal Oil Products Company. Method for stabilizing pyrolysis gasoline. 3,470,085, 9-30-69, Cl. 208-143.
Parker, Rollin J., to General Electric Company. Permanent magnet stator for dynamoelectric machines and method of assembling the same. 3,422,294, 1-14-69, Cl. 310-42.
Parker, Rollin J., to General Electric Company. Permanent magnet stator with split casing and method of making. 3,422,295, 1-14-69, Cl. 310-42.
Parker, Rollin J., to General Electric Company. Speaker magnet having curved preferred direction of magnetization. 3,440,364, 4-22-69, Cl. 179-117.
Parker, Rollin J., to General Electric Company. Permanent magnet basket assembly for a speaker. 3,466,405, 9-9-69, Cl. 179-117.
Parker, Samuel A., Jr. Method of compacting tobacco for curing in hogsheads. 3,455,345, 7-15-69, Cl. 141-12.
Parker, Sidney A.: *See—*
Dirk, William R.; and Parker, Sidney A.,3,462,075.
Parker, Sidney G., to Texas Instruments, Incorporated. Method of making an electrode for a fuel cell. 3,453,148, 7-1-69, Cl. 136-120.
Parker, Sidney G.; and Kraus, Herbert, to Texas Instruments, Incorporated. Method of producing homogeneous ingots of mercury cadmium telluride. 3,468,363, 9-23-69, Cl. 164-125.
Parker Sweeper Company: *See—*
Rhoads, Loy D., 3,478,500.
Parker, Vernon D., to Dow Chemical Company, The. Process for making carbamates. 3,448,019, 6-3-69, Cl. 204-59.

Parker, Walter, to Scragg, Ernest, & Sons Limited. Heater for textile apparatus. 3,421,192, 1-14-69, Cl. 28-62.
Parker, Walter, to Scragg, Ernest & Sons Limited. Unwinding aid for textile apparatus. 3,437,283, 4-8-69, Cl. 242-128.
Parker, Walter, to Scragg, Ernest, & Sons Limited. Driving arrangement. 3,460,335, 8-12-69, Cl. 57-77.45
Parker, Walter, to Scragg, Ernest, & Sons Limited. Yarn bulking apparatus. 3,468,002, 9-23-69, Cl. 28-1.
Parker, Walter; and Forward, Philip, to Scragg, Ernest, & Sons Limited. Textile apparatus. 3,465,509, 9-9-69, Cl. 57-77.45
Parker, Walter: *See*—
Scragg, Frederick; Parker, Walter; and McNeight, David Leslie,3,461,657.
Parker, Wayland B., to Schlumberger Limited (Schlumberger N.V.). Chair. 3,431,021, 3-4-69, Cl. 297-445.
Parker, Wayland B.; and Barker, Donald W., to Schlumberger Limited (Schlumberger N.V.). Furniture construction. 3,467,434, 9-16-69, Cl. 297-445.
Parker, Wesley A.: *See*—
Holton, James R.; Sims, James G.; and Parker, Wesley A.,3,439,489.
Parker, Willard I. Boat dolly. 3,455,473, 7-15-69, Cl. 214-84.
Parker, William H.: *See*—
Luehrmann, William H.; and Parker, William H.,3,461,445.
Parker, William N., to Radio Corporation of America. Microwave oven. 3,422,240, 1-14-69, Cl. 219-10.55
Parker, William N., to RCA Corporation. Dielectric heating. 3,474,209, 10-21-69, Cl. 219-10.55
Parker, William S.; and Wahldick, Harold G., Jr. Patio table. 3,475,053, 10-28-69, Cl. 297-157.
Parker, William W.: *See*—
Bennett, James Russell; Parker, William W.; and Schachner, Eugene,3,437,998.
Parker, Winfred E.; and Koos, Ronald E., to United States of America, Agriculture. Bis(trimethylolpropane diallyl ether) dilinoleate lubricant compositions. 3,423,319, 1-21-69, Cl. 252-49.8
Parker-Hannifin Corporation: *See*—
Andersen, Roger K., 3,451,313.
Balogh, Stephen; and Adams, Cecil L., 3,434,597.
Burton, Samuel D., 3,425,719.
Churchill, Ralph, Jr.; and Flock, Henry H., 3,476,014.
Conabee, Raymond S., 3,472,026.
deGraaf, Paul A., 3,479,005.
Druge, Daniel Orth, 3,445,069.
Gardner, Charles Victor, 3,472,482.
Gillet, William J., 3,453,859.
Jelinek, Jerry G.; and Dial, Harrell M., 3,448,986.
Kahle, Lloyd L.; and Shandor, John J., 3,449,948.
Kenyon, Richard L.; and Burns, John R., 3,444,342.
Koski, Jerry V., 3,441,297.
Kutas, Albert F.; Allen, James Terry; and Jelinek, Jerry G., 3,485,142.
Lanman, Robert W., 3,443,486.
Lansky, Zdenek J.; and Leibfritz, Kurt W., 3,420,257.
Lansky, Zdenek J.; and Bracki, Kenneth A., 3,424,185.
Lapera, Dominic J., 3,441,223.
Leibfritz, Kurt Willy Hjlmar, 3,425,449.
Martin, George J.; and Stacey, Hugh J., 3,426,647.
Martin, George J., 3,460,567.
Papenguth, Richard P., 3,432,173.
Robinson, Phillip E., 3,460,438.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., 3,440,802.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., 3,441,137.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar B., 3,441,138.
Rosaen, Nils O., 3,442,382.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., 3,442,383.
Rosaen, Nils O., 3,468,420.
Rosaen, Nils O., 3,472,380.
Rosaen, Nils O.; Firth, Robert L.; and Brown, Carl A., 3,486,622.
Rosaen, Nils Ol, 3,471,023.
Schmiel, Herbert H., 3,474,708.
Simmons, Harold C., 3,443,760.
Simmons, Harold C.; and Lapera, Dominic J., 3,472,025.
Simmons, Harold C.; Hogg, Eugene R.; and Kuhn, Roy C., 3,474,970.
Stac, Hugh J., 3,439,583.
Stacey, Hugh J., 3,456,671.
Stanley, John H.; and Grossett, Duane R., 3,448,602.
Taylor, William P.; and Drazkowski, David V., 3,460,564.
Parkes, Eric Bernard, to Lucas, Joseph, (Industries) Limited. Rear suspension systems for road vehicles. 3,468,554, 9-23-69, Cl. 280-6.
Parkes, George Robertson: *See*—
Field, John Henry; and Parkes, George Robertson,3,449,927.
Parkhill, Dennie, Jr., to Continental Oil Company. Pie fitting and method of manufacture. 3,459,445, 8-5-69, Cl. 285-302.
Parkhurst, Edwin H., Jr. Vehicle brake system and valve. 3,447,835, 6-3-69, Cl. 303-7.
Parkhurst Manufacturing Company: *See*—
Parkhurst, William R., 3,423,106.
Parkhurst, William R., 3,481,630.
Parkhurst, William R., 3,481,631.
Parkhurst, William R., to Parkhurst Manufacturing Company. Trailer hitch. 3,423,106, 1-21-69, Cl. 280-502.
Parkhurst, William R., to Parkhurst Manufacturing Company. Trailer hitch assembly. 3,481,630, 12-2-69, Cl. 280-502.
Parkhurst, William R., to Parkhurst Manufacturing Company. Trailer hitch assembly. 3,481,631, 12-2-69, Cl. 280-502.
Parkin, Leslie, to United-Carr Incorporated, mesne. Fastener for anchoring a nut. 3,451,455, 6-24-69, Cl. 151-41.73
Parkin, Leslie, to United-Carr Incorporated, mesne. Spring clip. 3,459,096, 8-5-69, Cl. 85-8.8
Parkin, Leslie; and Andrews, Sydney Alan, to United-Carr Incorporated, mesne. Sheet metal nut device. 3,426,817, 2-11-69, Cl. 151-41.75
Parkin, Leslie; and Rigley, Brian, to United-Carr Incorporated, mesne. Fastener for securing a knob to the end of a rod. 3,425,723, 2-4-69, Cl. 287-53.
Parkins, Guy E.: *See*—
Dudzik, Chester J.; Fisher, Daniel V., Jr.; and Parkins, Guy E.,3,422,617.
Parkins, Malcolm Frederick, to Vickers Limited. Vacuum-tight device with inclined interconnected annular bellows. 3,459,232, 8-5-69, Cl. 138-103.
Parkins, William E., to North American Rockwell Corporation. Nuclear battery including photocell means. 3,483,040, 12-9-69, Cl. 136-89.
Parkinson, David B., to Clevite Corporation. Piezoelectric voltage source. 3,463,943, 8-26-69, Cl. 310-8.3
Parkinson, David B., to Clevite Corporation. Rolling cam actuated piezoelectric voltage source. 3,469,119, 9-23-69, Cl. 310-8.7
Parkinson, John; Eibich, Alfred; and Saylor, Edward T., Jr., to United Parmatic Corporation. Magnetic indicating device. 3,442,248, 5-6-69, Cl. 116-70.
Parkinson, Lee K. Oil painting medium. 3,479,195, 11-18-69, Cl. 106-159.
Parkinson, Martin C.: *See*—
Bender, Charles E.; and Parkinson, Martin C.,3,454,178.
Bender, Charles E.; and Parkinson, Martin C.,3,459,185.
Gilmont, Roger; and Parkinson, Martin C.,3,453,890.
Gilmont, Roger; and Parkinson, Martin C.,3,478,779.
Parkinson, Noel P. Contact encoder with erroneous readout prevention circuitry. 3,445,841, 5-20-69, Cl. 340-347.
Parkinson, Peter; Kennedy, Thomas; and William , John, to Northern Electric Company Limited. Drive system employing dual motors. 3,434,025, 3-18-69, Cl. 318-8.
Parkison, Richard G., to American Standard Inc. Noise reduction structure for mixing valve. 3,433,264, 3-18-69, Cl. 137-625.17
Parkison, Richard G., to American Standard Inc. Adjustable shower head. 3,468,483, 9-23-69, Cl. 239-460.
Parkison, Richard G.; and Forth, Edward W., to American Standard, Inc. Float actuated rotary valve. 3,465,782, 9-9-69, Cl. 137-315.
Parkison, Richard Grant: *See*—
Markland, Norman Ray; and Parkison, Richard Grant,3,472,453.
Parkison, Richard Grant; and Duggan, Robert Beaman, to American Standard, Inc. Heat shield for soldering plumbing lines. 3,430,686, 3-4-69, Cl. 165-1.
Parkline Corporation: *See*—
Klein, Louis E., 3,458,963.
Parks & Woolson Machine Co.: *See*—
Holm, William J., 3,438,139.
Parks, Asbury S., to Dover Corporation. Method and device for releasing pressure of a pressurized system. 3,448,750, 6-10-69, Cl. 137-14.
Parks, Bert H., to Rogue Reels, Inc. Two speed fishing reel drive. 3,448,942, 6-10-69, Cl. 242-84.54
Parks, Christ F.: *See*—
Eilers, Louis H.; and Parks, Christ F.,3,421,584.
Parks, Clarence E. Extruder. 3,486,194, 12-30-69, Cl. 18-12.
Parks, George A.; and Baker, Robert E., to Mountain Copper Company of California. Mercury process. 3,476,552, 11-4-69, Cl. 75-101.
Parks, James C., Jr.; and Tucker, Huel C., to Monsanto Company. Programmed gas chromatography system. 3,438,243, 4-15-69, Cl. 73-23.1
Parks, Joe K.: *See*—
Brediger, James L.; Day, William B.; Lavedan, Louis J., Jr.; and Parks, Joe K.,3,431,515.
Parks, Joe K., to Sperry Rand Corporation. Broadband reciprocal dual meander line ferrite phase shifter. 3,448,410, 6-3-69, Cl. 333-31.
Parks, Joe K.; and Savage, Bruce R., to Sperry Rand Corporation. Latching reciprocal ferrite phase shifter having mode suppressing means. 3,471,809, 10-7-69, Cl. 333-31.

Parks, John H.: *See—*
Maxwell, Carl R.; Miller, Robert H.; and Parks, John H.,3,472,215.
Parks, John Ronald, to National Research Development Corporation. Electronic systems and arrangements for recognising printed characters. 3,471,831, 10-7-69, Cl. 340-146.3
Parks, John W., to Union Tank Car Company. Cellular pump station structure. 3,448,885, 6-10-69, Cl. 220-5.
Parks, Lawrence M.: *See—*
Parks, Nathan R., 3,439,339.
Parks, Nathan R., 1/2 to Parks, Lawrence M. System for verifying the ownership of a credit card, an identification card, or the like. 3,439,339, 4-15-69, Cl. 340-149.
Parks, Philip S., to Morris, Philip, Incorporated. Machine for test smoking cigarettes. 3,460,374, 8-12-69, Cl. 73-23.
Parks, Rene Antoine: *See—*
Paris, Jacques Maurice; Merlin, Jean-Claude; and Parks, Rene Antoine,3,484,376.
Parks, Robert F.; and Deutschle, Alan G., to Beltone Electronics Corporation. Process for making custom ear molds for in-the- ear hearing aids. 3,475,528, 10-28-69, Cl. 264-222.
Parks, William, III; and Jonker, Frederick, to Jonker Business Machines, Inc. Plane type line scanner for universal information system. 3,484,588, 12-16-69, Cl. 235-61.11
Parks, William N.: *See—*
Nechvatal, Stanley R.; and Parks, William N.,3,457,611.
Nechvatal, Stanley R.; and Parks, William N.,3,471,911.
Parks-Cramer Company: *See—*
Black, Robert L., Jr., 3,422,481.
Black, Robert L., Jr., 3,429,745.
Black, Robert L., Jr.; and Lee, Charles D., Jr., 3,432,877.
Black, Robert L., Jr., 3,437,520.
Lee, Charles D., Jr.; and Black, Robert L., Jr., 3,486,319.
Seress, George; and Hewitt, Woodrow W., 3,429,746.
Parks-Cramer (Great Britain), Ltd.: *See—*
Wild, James Aubrey, 3,486,309.
Parkson Industrial Equipment Company: *See—*
Palmason, Einar Henry, 3,469,617.
Parkyn, John Michael, to Marconi Instruments Limited. Impedance matching circuit arrangements. 3,487,326, 12-30-69, Cl. 330-127.
Parlyn, Inc.: *See—*
Frymire, Garold D., 3,470,764.
Parma, Domenico. System for post-stressing concrete slabs, beams or other structures. 3,422,586, 1-21-69, Cl. 52-230.
Parma, Piero. Shoe heel with an interchangeable heel tap. 3,473,241, 10-21-69, Cl. 36-42.
Parma Water Lifter Company: *See—*
Itami, Thomas T., 3,423,914.
Nelsen, Lloyd L., 3,456,592.
Parmeggiani, Paolo: *See—*
Nicita, Domenico; Parmeggiani, Paolo; Perazzoni, Pierluigi; and Giacobone, Piero,3,448,186.
Parmentier, Alfred Henri. Method and apparatus for regenerating the filter cloth of a rotary filter table. 3,469,703, 9-30-69, Cl. 210-393.
Parmer, Jesse N.: *See—*
Thomas, Paul M.; Wright, Lawrence W.; Crile, Eugene E.; Tolleson, Leon H.; and Parmer, Jesse N.,3,471,036.
Parmer, Will F., to Texas Instruments, Incorporated. Field-effect transistors. 3,436,281, 4-1-69, Cl. 148-187.
Parmerlee, James K.: *See—*
Letsinger, Robert M.; and Parmerlee, James K.,3,446,942.
Parmerter, Stanley M.: *See—*
Hull, Glenn A.; Allen, Earle E., Jr.; and Parmerter, Stanley M.,3,459,732.
Parmerter, Stanley M.; and Allen, Earle E., Jr., to Corn Products Company. Cyclic anhydride esters of cyclodextrin. 3,453,260, 7-1-69, Cl. 260-209.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A., to Corn Products Company. Cyclodextrins with anionic properties. 3,426,011, 2-4-69, Cl. 260-209.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A., to Corn Products Company. Cyclodextrin with cationic properties. 3,453,257, 7-1-69, Cl. 260-209.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Hull, Glenn A., to Corn Products Company. Reaction products of cyclodextrin and unsaturated compounds. 3,453,258, 7-1-69, Cl. 260-209.
Parmerter, Stanley M.; Allen, Earle E., Jr.; and Le Roy, David H., to Corn Products Company. Cyclodextrin polyol ethers and their oxidation products. 3,453,259, 7-1-69, Cl. 260-209.
Parmett, Michael B., to Singer-General Precision, Inc. Sweep and timing pulse generator for radar simulation. 3,452,285, 6-24-69, Cl. 328-181.
Parnell, David Harding; and Sotheran, Arthur, to Rolls-Royce Limited, mesne. Combustion apparatus. 3,479,823, 11-25-69, Cl. 60-224.
Parnell, David Harding: *See—*
Richardson, Leslie Frederick; and Parnell, David Harding,3,430,443.
Parnell, Edgar William: *See—*
Davis, Michael; Parnell, Edgar William; and Sharp, Brian William,3,485,845.
Parnell, Frederick L. Safety device for acetylene cylinder. 3,464,278, 9-2-69, Cl. 74-89.15
Parnell, RB. Vehicle comprising front wheel drive and trailer. 3,441,101, 4-29-69, Cl. 180-12.
Parnell, Robert A. Permanent magnet assembly for a loudspeaker assembly. 3,478,289, 11-11-69, Cl. 335-231.
Parobek, Daniel M. Data recording device. 3,473,246, 10-21-69, Cl. 40-124.4
Parodi, Luciano; and Vallauri, Maurizio, to Fiat Societa per Azioni. Edgewise helically wound composite strip motor winding with high temperature insulation. 3,457,444, 7-22-69, Cl. 310-179.
Paron, August A. Internal combustion engine and piston therefor. 3,486,490, 12-30-69, Cl. 123-73.
Paros, Jerome M.: *See—*
Riordan, Hugh E.; Weisbord, Leon; and Paros, Jerome M.,3,465,597.
Parouty, Jean Claude: *See—*
Desormiere, Bernard P. L.; Parouty, Jean Claude; and Piechon, Andre L.,3,441,837.
Parquet, Pierre: *See—*
Veilex, Robert; and Parquet, Pierre,3,431,744.
Parr, Eddie D. Ski rope retriever. 3,456,891, 7-22-69, Cl. 242-54.
Parr, Edward L., to Thompson, Wendell L. Air cooled heater grill. 3,442,325, 5-6-69, Cl. 165-39.
Parr, Edward L., to Thompson, Wendell L. Reciprocating motor ratchet and pawl remote position indicator. 3,443,179, 5-6-69, Cl. 318-21.
Parr, Edward L., to Thompson, Wendell L. One way roller barrier for parking lot. 3,447,639, 6-3-69, Cl. 188-32.
Parr, Edward L., to Thompson, Wendell L. Helical ratchet clasp. 3,471,185, 10-7-69, Cl. 287-61.
Parr, Elmer D.: *See—*
Shih, Cheng; Parr, Elmer D.; Stephenson, R. Rhoads; and Talaat, Mostafa E.; said,3,423,610.
Parr, Josephus O., Jr.: *See—*
Forester, Robert D.; and Parr, Josephus O., Jr.,3,460,065.
Parr, William G.; and Hudgell, Alfred W. D., to Imperial Chemical Industries Limited. Method and apparatus for spinning heterofilaments. 3,457,342, 7-22-69, Cl. 264-171.
Parratt, Noel James, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Processes for orienting fibres. 3,442,997, 5-6-69, Cl. 264-108.
Parravicini, Flora: *See—*
Parravicini, Irma, 3,424,162.
Parravicini, Irma, to Parravicini, Flora. Underpants, in particular hygienic panty. 3,424,162, 1-28-69, Cl. 128-288.
Parrella, Alfred T., to Farrel Corporation. Roll grinding apparatus. 3,456,395, 7-22-69, Cl. 51-165.
Parrella, Alfred T.; and Gagliardi, Gene R., to Farrel Corporation. Method of aligning mill rolls for grinding thereof. 3,430,400, 3-4-69, Cl. 51-289.
Parrella, Alfred T.; Palubniak, Paul; and Gagliardi, Gene R., to Farrel Corporation. Grinding machine. 3,461,612, 8-19-69, Cl. 51-49.
Parrent, George B., Jr.: *See—*
Mueller, Peter F.; and Parrent, George B., Jr.,3,425,770.
Silverman, Bernard A.; Thompson, Brian J.; and Parrent, George B., Jr.,3,451,755.
Parrent, William Russell; and Gray, Robert J., to Airtex Products, div. of United Industrial Syndicate Inc. Method and apparatus for piercing blanking fuel pump diaphragm. 3,447,408, 6-3-69, Cl. 83-21.
Parrent, William Russell: *See—*
Phillips, Claude F.; and Parrent, William Russell,3,452,591.
Parrett, John T., to Benton Harbor Engineering Works, Inc. Hydraulic motor. 3,433,124, 3-18-69, Cl. 91-198.
Parrett, John T., to Benton Harbor Engineering Works, Inc. Hydraulic pump or motor. 3,435,774, 4-1-69, Cl. 103-162.
Parrett, John T., to Benton Harbor Engineering Works, Inc. Hydraulic pump or motor. 3,435,775, 4-1-69, Cl. 103-162.
Parrett, John T.; and Hoffman, Robert L., to Koehring Company, mesne. Telescopic hydraulic actuator. 3,483,798, 12-16-69, Cl. 91-169.
Parri, Gwynn J. Paper feeder coordinated with platen. 3,430,748, 3-4-69, Cl. 197-130.
Parris, William J., to Westinghouse Electric Corporation. Reciprocal microwave phasing unit for use in an antenna array. 3,475,757, 10-28-69, Cl. 343-754.
Parrish, David R.: *See—*
Satter, Abdus; and Parrish, David R.,3,430,700.
Parrish, Dennis: *See—*
Parrish, Patricia D.; and Parrish, Dennis,3,442,351.
Parrish, Donald B.: *See—*
Ashby, Theodore L.; and Parrish, Donald B.,3,480,601.
Parrish, Edward W.: *See—*
Barows, Arthur G.; Parrish, Edward W.; and Miner, Robert C.,3,442,380.

Parrish, Edward W., to International Harvester Company. Root crop harvester. 3,425,494, 2-4-69, Cl. 171-58.
Parrish, Frank W., to International Rectifier Corporation. Air flow baffle for rectifier heat exchanger. 3,435,891, 4-1-69, Cl. 165-121.
Parrish, Frank W., to International Rectifier Corporation. Common housing for independent semiconductor devices. 3,483,444, 12-9-69, Cl. 317-234.
Parrish, Frank W.; and Dulin, Gerald F., to International Rectifier Corporation. Paralleling reactor for two-way circuits employing an auxiliary bus. 3,471,767, 10-7-69, Cl. 321-27.
Parrish, Frederick W., to United States of America, Army. Fructose formation from glucose. 3,431,253, 3-4-69, Cl. 260-209.
Parrish Instruments Limited: *See*—
Parrish, Joseph R., 3,423,751.
Parrish, Joseph R., to Parrish Instruments Limited. Position plotting apparatus for use with radar or other positional information systems. 3,423,751, 1-21-69, Cl. 343-5.
Parrish, Maxfield, Jr.: *See*—
Bird, George R.; and Parrish, Maxfield, Jr.,3,479,168.
Parrish, Patricia D.; and Parrish, Dennis. Method and apparatus for rapidly establishing an elevated work platform. 3,442,351, 5-6-69, Cl. 182-141.
Parrish, Reuel C. Quick disconnect coupling. 3,429,589, 2-25-69, Cl. 285-86.
Parrish, Walter A., Jr., to Allis-Chalmers Manufacturing Company. Fuel injection control. 3,421,486, 1-14-69, Cl. 123-139.
Parrott, Edward James, to Muirhead & Co., Limited. Supply circuit for synchro resolvers. 3,427,531, 2-11-69, Cl. 323-108.
Parry-Davies, Ross, to Cementation Company (Africa) Limited, The. Plugging underground cavities. 3,424,248, 1-28-69, Cl. 166-285.
Parry, Harvey L.: *See*—
Dante, Mark F.; and Parry, Harvey L.,3,477,990.
Parry, Hugh J.: *See*—
Painter, Giles W.; and Parry, Hugh J.,3,420,098.
Painter, Giles W.; and Parry, Hugh J.,3,434,060.
Parry, Jimmy H.: *See*—
Fry, William Charles David; Parker, Patrick Neiland; Ross, William M., Jr.; and Parry, Jimmy H.,3,447,608.
Parry, Richard John: *See*—
Reid, Alexander Mailer; Parry, Richard John; and Burrows, Michael Eastoe,3,480,453.
Parry, Robert D. Scouring pad. 3,434,177, 3-25-69, Cl. 15-209.
Parry, Robert D., 90% to O. K. Partnership, and 10% to Access Corporation. Article selection system. 3,478,877, 11-18-69, Cl. 209-80.5
Parry, Robert D.: *See*—
Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D.,3,450,261.
Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D.,3,469,774.
Parsch, Claus-Peter: *See*—
Kafka, Wilhelm; and Parsch, Claus-Peter,3,431,347.
Parsen, Edward M.: *See*—
Wahl, Franklin W., 3,445,954.
Parsey, Michael Richard; Thompson, Edward; and Walker, Eric, to Imperial Chemical Industries Limited. Lubricated polyolefine ropes. 3,420,050, 1-7-69, Cl. 57-149.
Parshall, George W.: *See*—
Klanberg, Frank K.; and Parshall, George W.,3,455,977.
Parshall, William V. Methods of and apparatus for separating coils disposed in close face-to-face relation. 3,426,921, 2-11-69, Cl. 214-1.
Parsi, Edgardo J.; and McGriff, Stuart G., to Ionics, Incorporated. Method and apparatus for treating liquid milk products. 3,433,726, 3-18-69, Cl. 204-180.
Parsi, Edgardo J.; and Szcur, Albert, Jr., to Ionics, Incorporated. Stable lead anodes. 3,440,149, 4-22-69, Cl. 204-29.
Parson, Ralph D.; Clifton, Edwin R.; and Jonz, John P. Low voltage illuminated sign insignia. 3,440,749, 4-29-69, Cl. 40-130.
Parson, William F.: *See*—
Roy, Donald W.; and Parson, William F.,3,454,685.
Parsonnet, Victor; Myers, George H.; and Lewin, Gerhard. Nonpolarizing electrode for physiological stimulation. 3,476,116, 11-4-69, Cl. 128-417.
Parsons & Whittemore: *See*—
David, Charles Henri Auguste, 3,484,320.
Giraud, Robert Louis, 3,424,041.
Parsons, Brian Neville: *See*—
Griffiths, Geoffrey; and Parsons, Brian Neville,3,474,084.
Parsons, C. A., & Company Limited: *See*—
Horsley, William Douglass, 3,457,440.
Richardson, Philip; and Young, Norman, 3,430,126.
Richardson, Philip, 3,487,242.
Watson, William George, 3,421,531.
Watson, William George, 3,427,464.
Parsons Chain Co., Limited: *See*—
Smerd, Hans Otto; and Bonner, Peter Joseph, 3,442,075.
Parsons Chain Company Limited: *See*—
Smerd, Johann Hans Otto; and Gedny, Patrick, 3,484,927.
Parsons, Charles G.: *See*—
Horvath, Roland J.; Parsons, Charles G.; and Zettler, Toby T.,3,445,383.
Parsons Corporation: *See*—
Brownlee, Winston E., 3,419,954.
Parsons, John T., 3,420,712.
Slivinsky, Cornell J.; and Steed, Stanley, 3,476,625.
Parsons, Curtis P., to Dow Chemical Company, The. Vapor and droplet separator for ebullient-cooled engines. 3,448,729, 6-10-69, Cl. 123-41.2
Parsons, David Gordon; and Turner, Alan Frederick, to Vantorex Limited. 4-Substituted-1-hydroxylaminophthalazines. 3,478,028, 11-11-69, Cl. 260-250.
Parsons, Frederick G.: *See*—
Miller, Carlton S.; and Parsons, Frederick G.,3,424,534.
Parsons, Frederick L. Endless track with hollow inflatable treads. 3,427,078, 2-11-69, Cl. 305-14.
Parsons, Freeman A.: *See*—
Anderson, Paul G., 3,431,023.
Parsons, George W.: *See*—
Anderson, Lester F.; Parsons, George W.; and Petts, Ronald G.,3,430,038.
Parsons, Howard Grubb, Sir., & Company Limited: *See*—
Haswell, Ronald, 3,469,924.
Parsons, Hubert J.; and Cunningham, Henry L., to Hardinge Brothers, Inc. Indexing mechanism. 3,464,292, 9-2-69, Cl. 74-826.
Parsons, Joe T., Sr. Router attachment apparatus. 3,459,104, 8-5-69, Cl. 90-13.
Parsons, John S.: *See*—
Steiner, William A.; and Parsons, John S.,3,451,124.
Parsons, John T.: *See*—
Forrester, Jay W.; Pease, William M.; McDonough, James O.; and Susskind, Alfred K., 3,431,478.
Parsons, John T., to Parsons Corporation. Method for treating elongated metal workpieces with a succession of treating liquids. 3,420,712, 1-7-69, Cl. 134-33.
Parsons, Joseph R., to Chicago Fire Brick Company. Carbon gun mixes. 3,427,369, 2-11-69, Cl. 264-30.
Parsons, Joseph R., to Chicago Fire Brick Company. Carbon composition and process. 3,442,670, 5-6-69, Cl. 106-56.
Parsons, Leslie A., & Sons Limited: *See*—
Parsons, Leslie A., 3,454,066.
Parsons, Leslie A., 3,485,278.
Parsons, Leslie A., 3,485,279.
Parsons, Leslie Athur, 3,454,065.
Parsons, Leslie A., to Parsons, Leslie A., & Sons Limited. Onion end cutter. 3,454,066, 7-8-69, Cl. 146-83.
Parsons, Leslie A., to Parsons, Leslie A., & Sons Limited. Treatment of onions. 3,485,278, 12-23-69, Cl. 146-43.
Parsons, Leslie A., to Parsons, Leslie A., & Sons Limited. Treatment of onions. 3,485,279, 12-23-69, Cl. 146-230.
Parsons, Leslie Athur, to Parsons, Leslie A., & Sons Limited. Treatment of fruit and vegetable crops. 3,454,065, 7-8-69, Cl. 146-83.
Parsons, Ralph M., Company, The: *See*—
Beavon, David K.; and Jentz, Norman E., 3,444,075.
Parsons, Robert E.; Darms, Fred J.; and Cox, William T., to Aerojet-General Corporation. Structures. 3,436,038, 4-1-69, Cl. 244-123.
Parsons, Robert W.; and Chaney, Paul R., to Marathon Oil Company. Process for in situ combustion in subterranean surface containing a permeable zone. 3,437,139, 4-8-69, Cl. 166-11.
Parsons, Walter M., to American Hoist & Derrick Company. Apparatus for depositing material in and removing it from elongated processing zones. 3,471,041, 10-7-69, Cl. 214-17.
Parsons, William F.: *See*—
Carnall, Edward, Jr.; Hatch, Sherley E.; Parsons, William F.; and Weagley, Robert J.,3,453,215.
Carnall, Edward, Jr.; Parsons, William F.; and Roy, Donald W.,3,475,116.
Roy, Donald W.; and Parsons, William F.,3,459,503.
Parsont, William; and Wilsin, Rosalie S. 1/10 to Parsont, Michael J. Trouser adjusters. 3,445,862, 5-27-69, Cl. 2-237.
Parstorfer, John, to Philco-Ford Corporation. Electrical interconnection of micromodule circuit devices. 3,429,788, 2-25-69, Cl. 204-30.
Partain, Gerald K., to Whittaker Corporation. Reducing edge moments in a bonded laminated load-carrying glass and attachment assembly. 3,444,662, 5-20-69, Cl. 52-623.
Partensky, Pierre Jean Marc, to B. T. B. Benoit-Le Tapis Brosse, Societe Anonyme. Method and apparatus for making nonwoven pile fabrics. 3,477,889, 11-11-69, Cl. 156-72.
Partensky, Pierre Jean Marc, to B.T.B. Benoit-Le Takis Brosse. Apparatus for making nonwoven pile carpets. 3,479,241, 11-18-69, Cl. 156-435.
Parthasarathy, R.: *See*—
Dobres, Robert M.; Parthasarathy, R.; and Warthen, John L.,3,423,455.
Parthum, Richard. Round knitting machine for the production of runproof stockings with a welt. 3,470,715, 10-7-69, Cl. 66-95.

Parthum, Werner Manfred, to Danavox International A/S. Microphone with mounting frame of prefixed components. 3,465,107, 9t2-69, Cl. 179-179.
Partin, Melvin E., to Philco-Ford Corporation. Character recognition apparatus using single stroke scansion of character area with elongate image. 3,469,238, 9-23-69, Cl. 340-146.3
Partin, Melvin E.; and Ett, Allen H., to Philco-Ford Corporation. Character recognition apparatus. 3,426,325, 2-4-69, Cl. 340-146.3
Partlow, Jackson A., to Zip-Up Lighting Tower Co., Inc. Portable collapsible tower. 3,439,467, 4-22-69, Cl. 52-632.
Partridge, Derek Bernard: *See*—
May, Herbert; and Partridge, Derek Bernard,3,466,263.
Partridge, Gerald J.: *See*—
Smith, Lawrence H.; and Partridge, Gerald J.,3,445,078.
Partridge, Gordon R.: *See*—
Frank, Richard W.; and Partridge, Gordon R.,3,422,422.
Partridge, Gordon R., to General Radio Company. Conversion apparatus and method. 3,426,187, 2-4-69, Cl. 235-197.
Partridge, Graham: *See*—
McMillan, Peter William; and Partridge, Graham,3,460,987.
Partridge, Leslie W., to Burdick Corporation, The. Vane controlled oscillator circuits. 3,456,212, 7-15-69, Cl. 331-117.
Partridge, Leslie W., to Burdick Corporation, The. Measuring apparatus. 3,466,558, 9-9-69, Cl. 330-10.
Partridge, Leslie W., to Burdick Corporation, The. Cardiac waveform simulating apparatus. 3,469,115, 9-23-69, Cl. 307-268.
Partridge, Leslie W., to Burdick Corporation, The. Cardiac amplifier system with fast switching. 3,477,421, 11-11-69, Cl. 128-2.06
Partridge, William S.: *See*—
Brown, Wayne S.; and Partridge, William S.,3,463,719.
Parts, Leo P.; and Fcairheller, William R., Jr., to Monsanto Research Corporation. Laser radiation-induced polymerization. 3,477,932, 11-11-69, Cl. 204-159.23
Partyka, Richard A.: *See*—
Buchanan, Ronald L.; and Partyka, Richard A.,3,452,039.
Holava, Henry Michael, Jr.; and Partyka, Richard Anthony,3,464,988.
Paruolo, Anthony M., to Advertising Metal Display Co. Display unit. 3,481,487, 12-2-69, Cl. 211-176.
Parylo, Gerald A.: *See*—
Molitoris, Stephen J.; Raney, Dennis F.; and Parylo, Gerald A.,3,480,966.
Pasberg, Max: *See*—
Walz, Paul Otto Kurt; Van Schyndel, Andreas; and Pasberg, Max,3,437,017.
Pasbrig, Max Herbert. Safety device for screw bolt with screw nut. 3,467,158, 9-16-69, Cl. 151-30.
Pascal Company, Inc.: *See*—
Stark, Marvin M., 3,421,223.
Pascal, Yves: *See*—
Lucien, Rene; and Pascal, Yves,3,425,321.
Pascale, Donald Anthony, to Du Pont de Nemours, E. I., and Company. Colored reinforced laminates. 3,454,417, 7-8-69, Cl. 117-73.
Pascale, John V.: *See*—
Brownstein, Arthur M.; and Pascale, John V.,3,465,025.
Reimschuessel, Herbert K.; and Pascale, John V.,3,422,093.
Pascarella, Vincent J.: *See*—
Dimond, Harold L.; and Pascarella, Vincent J.,3,461,053.
Dimond, Harold L.; Hurley, Daniel J.; and Pascarella, Vincent J.,3,487,104.
Pascaud, Claude; and Graff, Louis, to Ugine Kuhlmann. Process for the preparation of pure manganese. 3,450,524, 6-17-69, Cl. 75-65.
Pascaud, Pierre Jean Fernand. Electronic heart-trouble warning device. 3,442,263, 5-6-69, Cl. 128-2.05
Pasch, Lothar, to Bremshey & Co. Pocket umbrella frame. 3,473,541, 10-21-69, Cl. 135-44.
Paschen, Peter; and Winterhager, Helmut. Process for the selective continuous refining of tin, antimony, zinc, and arsenic impurities from lead. 3,479,179, 11-18-69, Cl. 75-78.
Paschke, Hanns-Peter. Rotary piston machine. 3,426,692, 2-11-69, Cl. 103-116.
Pasciatti, Edward R.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,437,903.
Pasciutti, Edward R.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,466,570.
Pasco Packing Company: *See*—
Smith, Willard C., 3,478,906.
Pascoe, Kenneth H.; and Salter, Calvin R., to United States of America, Army, mesne. Duo-crystal mixer. 3,435,349, 3-25-69, Cl. 325-449.
Pascucci, Ernest, to Miller Company, The. Latching means for closures. 3,464,727, 9-2-69, Cl. 292-67.
Pascucci, Ronald W. Basketball re-play device. 3,446,504, 5-27-69, Cl. 273-1.5
Pasculli, Raffaele. Power driven pencil and ink eraser. 3,466,687, 9-16-69, Cl. 15-3.53
Pascus, Arnold W.; and Boehm, Edmund, to Elwood Industries, Inc. Triangular carton. 3,482,760, 12-9-69, Cl. 229-22.
Pasedach, Heinrich: *See*—
Maschke, Artur; and Pasedach, Heinrich,3,478,060.
Schneider, Kurt; Pasedach, Heinrich; and Pommer, Horst,3,446,851.
Paseka, Ivo: *See*—
Balej, Jan; Paseka, Ivo; Vondrak, Jiri; and Regner, Albert,3,431,193.
Pasetti, Adolfo: *See*—
Loffelholz, Marco; Pasetti, Adolfo; and Sianesi, Dario,3,450,611.
Sianesi, Dario; Bernardi, Gian Carlo; and Pasetti, Adolfo,3,451,907.
Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante,3,442,942.
Sianesi, Dario; Pasetti, Adolfo; and Tarli, Franco,3,475,457.
Pasic, James A., to Ovalstrapping Inc. Wire tying machines. 3,447,448, 6-3-69, Cl. 100-4.
Pasin, Alberto: *See*—
Corradi, Demetrio; and Pasin, Alberto,3,463,616.
Pasin, Alberto; and Coppola, Girolamo, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Method for purifying a mixture of dimethylformamide and acrylonitrile. 3,472,827, 10-14-69, Cl. 260-88.7
Pasini, Joseph, III, to United States of America, Interior. Polyacrylamide removal from porous media. 3,482,635, 12-9-69, Cl. 166-305.
Paskey, John W.: *See*—
Yann, Carl C.; Paskey, John W.; and Holzknecht, John F., Jr.,3,481,233.
Pasley, Richard L.: *See*—
Leep, Richard W.; and Pasley, Richard L.,3,427,872.
Pasman, Pieter Hans: *See*—
Dijkstra, Rinse; and Pasman, Pieter Hans,3,428,601.
Pasnak, Michael; and Ernst, Donald W. Pressure and depth detector. 3,424,007, 1-28-69, Cl. 73-398.
Pasolds Limited: *See*—
Czernin, Alexander Friedrich, 3,448,499.
Pasquine, Tony A. Lifter and carrier. 3,436,112, 4-1-69, Cl. 294-62.
Pasquinelli, Bruno B., to Miehle-Goss-Dexter, Incorporated. Antismudge sheet transfer device. 3,442,506, 5-6-69, Cl. 271-85.
Pass & Seymour, Inc.: *See*—
Grieshaber, Gunther S., 3,478,295.
Pass, E., & Company Limited: *See*—
Cooke, Frank, 3,463,195.
Passage, Steven; and Turner, John L.Glazer's offset locking strip tool. 3,448,508, 6-10-69, Cl. 29-235.
Passal, Frank, to M&T Chemicals Inc. Certain quarternary N-propargyl pyridinum salts. 3,432,509, 3-11-69, Cl. 260-295.
Passal, Frank, to M&T Chemicals Inc. Cyanoalkyl phenylpropiolamides. 3,449,398, 6-10-69, Cl. 260-465.
Passal, Frank, to M & T Chemicals Inc. Semi-bright nickel plating. 3,486,989, 12-30-69, Cl. 204-49.
Passal, Frank; and Tomson, Arthur James, to M & T Chemicals Inc. Tin oxide sol, process for preparing same, and process for electrodepositing tin utilizing said sol. 3,455,794, 7-15-69, Cl. 204-54.
Passannante, Anthony J.: *See*—
Gardiner, John B.; and Passannante, Anthony J.,3,441,549.
Passannante, Anthony J.; and Stogryn, Eugene L., to Esso Research and Engineering Company. Poly (1,2-divinyl ethylene oxide)-N_2F_4 adduct. 3,433,776, 3-18-69, Cl. 260-88.3
Passarello, Anthony R., to Johnson Corporation. Combined intake and exhaust mechanism for heating unit. 3,426,742, 2-11-69, Cl. 126-85.
Passaro, Frank: *See*—
Vrana, Carlos; and Passaro, Frank,3,463,104.
Passavant, Rudolf C., to Passavant-Werke. Screening elements for high speedscreening machines. 3,458,046, 7-29-69, Cl. 210-160.
Passavant, Rudolf Christian: *See*—
Ohl, Werner Friedrich; and Passavant, Rudolf Christian,3,435,954.
Thorn, Ewald Reinhard; and Passavant, Rudolf Christian,3,487,017.
Passavant-Werke: *See*—
Auler, Herbert, 3,458,176.
Auler, Herbert; and Muskat, Josef, 3,473,790.
Bucksteeg, Wilhelm; and Thiele, Hans, 3,480,542.
Fechter, Leonhard Emil, 3,485,342.
Ohl, Werner Friedrich; and Passavant, Rudolf Christian, 3,435,954.
Passavant, Rudolf C., 3,458,046.
Thorn, Ewald Reinhard; Weber, Wilhelm; Lemberg, Ernst Siegfried; and Blanche, Josef, 3,437,212.
Thorn, Ewald Reinhard; and Passavant, Rudolf Christian, 3,487,017.
Passer, La Roy B., to USM Corporation. Expansion bolts. 3,448,651, 6-10-69, Cl. 85-72.
Passley, Paul L., to Phillips Petroleum Company. Process and apparatus for conducting a plurality of alkylation reactions within a single reactor. 3,426,095, 2-4-69, Cl. 260-683.43
Passman, Bernard K. Cored braid and method of making the same. 3,452,639, 7-1-69, Cl. 87-6.

Passmore, James, to Petrochemicals Company, Inc. Method for determining the effectiveness of anti- caking agent. 3,481,187, 12-2-69, Cl. 73-81.
Passons, William Erby: *See—*
Card, Joseph Lewis; Passons, William Erby; and Richmond, Freddie M.,3,486,780.
Pastan, Harvey L.: *See—*
Berman, Herbert; and Pastan, Harvey L.,3,427,720.
Pastan, Harvey L., to Microdot, Inc. Direct reading pressure gage. 3,459,046, 8-5-69, Cl. 73-406.
Pasteka, Josef: *See—*
Merges, Herbert Alfred; and Pasteka, Josef,3,423,031.
Pasternack, Gerald P., to Bell Telephone Laboratories, Incorporated. Multifrequency signal receiver with compensation for power source variation. 3,441,682, 4-29-69, Cl. 179-84.
Pasternack, Gerald P.; and Whalin, Ronald L., to Bell Telephone Laboratories, Incorporated. Digital phase-locked loop. 3,449,691, 6-10-69, Cl. 331-18.
Pasternak, Evgeny Nikolaevich: *See—*
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.
Pasternak, Israel Szabsaj: *See—*
Tiedje, John Louis; Pasternak, Israel Szabsaj; and Gaspar, Noel John,3,449,458.
Pasternak, Stephen F., to Peerless of America, Incorporated. Heat exchangers and the method of making same. 3,433,300, 3-18-69, Cl. 165-151.
Pasternak, Stephen F., to Peerless of America, Incorporated. Heat exchangers. 3,443,634, 5-13-69, Cl. 165-182.
Pastoors, Eduard; and Saller, Rudolf, to Albert, Klein K.G., Firma. Apparatus for the continuous extraction of moisture from suspended matter. 3,459,122, 8-5-69, Cl. 100-118.
Pastoriza, James J. Multiple signal sampling and storage elements sequentially discharged through an operational amplifier. 3,441,913, 4-29-69, Cl. 340-173.
Pastuszak, Ronald F., to Precision Systems Company, Inc. Apparatus for rapidly and precisely positioning a succession of small work-pieces. 3,441,121, 4-29-69, Cl. 198-33.
Pastva, John V., Jr., to Eastern Company, The. Door lock. 3,449,005, 6-10-69, Cl. 292-173.
Pastva, John V., Jr., to Eastern Company, The. Pipe coupling. 3,476,410, 11-4-69, Cl. 285-112.
Pastva, John V., to Eastern Company, The. Door securing apparatus. 3,484,127, 12-16-69, Cl. 292-218.
Patalong, Hubert: *See—*
Herlet, Adolf; and Patalong, Hubert,3,439,239.
Patarini, Leon M.; Montgomery, Elmer M.; and Major, Louis A., to National Can Corporation. Die set unit and method for can manufacture. 3,468,153, 9-23-69, Cl. 72-370.
Patarini, Leon M.: *See—*
Muller, Robert E.; Godsted, Kent B.; Patarini, Leon M.; and McDonald, James F.,3,443,726.
Patch Rubber Company: *See—*
Kaenan, Joseph P., 3,434,183.
Patchell, Albert George; Lloyd, Ronald; and Stephenson, Arthur Ripon, to Smith, T. J., & Nephew Limited. Process for making an open network structure. 3,441,638, 4-29-69, Cl. 264-154.
Patchett, Arthur A.; Clark, Robert L.; and Rogers, Edward F., to Merck & Co., Inc. Anticoccidial composition containing 6,7- disubstituted-quinoline-3-carboxylates. 3,448,193, 6-3-69, Cl. 424-258.
Patchett, Arthur A.; Rogers, Edward F.; and Clark, Robert L., to Merck & Co., Inc. Novel acrylates. 3,449,403, 6-10-69, Cl. 260-471.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J., to Merck & Co., Inc. Guanidino penicillins. 3,453,265, 7-1-69, Cl. 260-239.1
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J., to Merck & Co., Inc.6-(α-guanidino acylamino)- penicillanic acid compounds. 3,454,557, 7-8-69, Cl. 260-239.1
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J., to Merck & Co., Inc. Guanidinoaryl and guanidinomethylaryl compounds. 3,479,401, 11-18-69, Cl. 260-518.
Patchett, Arthur A.: *See—*
Clark, Robert L.; Patchett, Arthur A.; and Rogers, Edward F.,3,474,169.
Hirschmann, Ralph F.; and Patchett, Arthur A.,3,475,418.
Johnston, David B. R.; Patchett, Arthur A.; and Windholz, Thomas B.,3,487,076.
Rogers, Edward F.; Clark, Robert L.; and Patchett, Arthur A.,3,478,084.
Pate , Orran Terence: *See—*
Hartley, David; Swanick , Brian Herbert; and Pate , Orran Terence,3,444,527.
Patel, Arvindbhai S., to Mobil Oil Corporation. Crossfeed gating system for borehole televiewer. 3,485,317, 12-23-69, Cl. 181-0.5
Patel, Chandra K. N., to Bell Telephone Laboratories, Incorporated. Self-focusing laser. 3,435,363, 3-25-69, Cl. 330-4.3
Patel, Chandra K. N., to Bell Telephone Laboratories, Incorporated. Frequency selective laser. 3,443,243, 5-6-69, Cl. 331-94.5
Patel, Chandra K. N., to Bell Telephone Laboratories, Incorporated. Optical resonator for lasers. 3,466,566, 9-9-69, Cl. 331-94.5
Patel, Chandra K. N.; and Slusher, Richart E., to Bell Telephone Laboratories, Incorporated. Field-tunable raman optical device. 3,467,917, 9-16-69, Cl. 332-7.51
Patel, Chandra K. N.; and Van-Tran, Nguyen, to Bell Telephone Laboratories, Incorporated. Millimeter and far infrared wave generator. 3,461,403, 8-12-69, Cl. 331-107.
Patel, Chandra K. N.: *See—*
Fleury, Paul; Patel, Chandra K. N.; Slusher, Richart E.; and Yafet, Yako,3,470,453.
Patel, Himanshu M.: *See—*
Korner, Renzo L.; and Patel, Himanshu M.,3,467,059.
Patel, Nagar J.: *See—*
Bould, Fred; and Patel, Nagar J.,3,483,338.
Patel, Pravin B.: *See—*
Bohn, Richard E.; and Patel, Pravin B.,3,473,047.
Patel, Virendra: *See—*
Csizmas, Louis L.; and Patel, Virendra,3,480,400.
Csizmas, Louis L.; and Patel, Virendra,3,482,943.
Patelhold Patentverwertungs- und Electro-Holding AG: *See—*
Kach, Alfred, 3,480,889.
Patelhold Patentverwertungs- und Elektro Holding AG: *See—*
Muller, Paul Curt, 3,427,422.
Patelhold Patentverwertungs- und Elektro-Holding AG: *See—*
Guanella, Gustav, 3,439,279.
Horvat, Ivan, 3,445,752.
Kach, Alfred, 3,423,701.
Patellaro, Theresa M.Child's auxiliary seat. 3,459,450, 8-5-69, Cl. 297-254.
Patelli, Bianca: *See—*
Consonni, Alberto; Patelli, Bianca; and Sciaky, Roberto,3,462,423.
Patellis, Anargiros P.: *See—*
Barkley, Lloyd B.; and Patellis, Anargiros P.,3,478,007.
Patellis, Anargiros P.; and Nufer, Hans L., to Pennsylvania Industrial Chemical Corporation. Alpha pinene polymers and their preparation. 3,466,271, 9-9-69, Cl. 260-93.3
Patent Holding Corporation: *See—*
Balaguer, Rodolfo Rodriguez, 3,432,364.
Balaguer, Rodolfo Rodriguez, 3,485,677.
Patent Service Corporation of America: *See—*
Collard, Allison C., 3,435,188.
Mansfield, Frank Richard, 3,486,753.
Patent-Freuhand-Gesellschaft fur Elektrische Gluhlampen m.b.H.: *See—*
Herrmann, Karl, 3,443,875.
Patent-Treuhand-Gesellschaft fur Elektrishe Gluhlampen mbH: *See—*
Schultz, Werner; and Bemerl, Wolfgang, 3,452,660.
Patentauswertung Vogelbusch Gesellschaft m.b.H.: *See—*
Ganko, Otto, 3,425,501.
Wutzel, Herbert, 3,438,786.
Pater, Anton S., to Union Carbide Corporation. Aqueous lubricants containing siloxane- polyoxyalkylene compositions. 3,457,173, 7-22-69, Cl. 252-46.3
Paterson, James Deas; and Sommerville, Gerald George, to Rotax Limited. Drive couplings. 3,435,931, 4-1-69, Cl. 192-46.
Paterson, James G. T.; Smith, Ashley P.; and Sams, James K., to Monsanto Company. Screen for penetration printing. 3,461,800, 8-19-69, Cl. 101-368.
Paterson, John S. General Time Corporation Degaussing circuit for electro-magnetic clutch. 3,421,784, 1-14-69, Cl. 192-84.
Paterson, Norman J., to Chevron Research Company. Process for converting asphaltenic oils and olefinic gasolines to high-value petroleum products. 3,472,760, 10-14-69, Cl. 208-86.
Paterson, Norman J.; and Roselius, Ronald R., to Chevron Research Company. Desulfurization and blenking of heavy fuel oil. 3,464,915, 9-2-69, Cl. 208-218.
Paterson, Robert N., to Dresser Industries, Inc. Pipe clamp having side outlet. 3,472,537, 10-14-69, Cl. 285-197.
Paterson, Robert N.: *See—*
Yoke, Michael P.; Montesi, Robert P.; and Paterson, Robert N.,3,434,744.
Paterson, Werner A. Dental model trimmer. 3,481,086, 12-2-69, Cl. 51-128.
Paterson, William K. Carpet cutting and trimming tool. 3,482,310, 12-9-69, Cl. 30-293.
Pathway Bellows, Inc.: *See—*
Owen, Thomas J., 3,472,062.
Patigny, Pierre: *See—*
Maria, Alain; Patigny, Pierre; and Perie, Daniel,3,450,639.
Patin, Pierre Charles. Hydraulic transmission with direct speed-control. 3,421,319, 1-14-69, Cl. 60-53.
Patin, Pierre; and Barree, Jean. Method of caulking leaks in a natural water reservoir. 3,462,958, 8-26-69, Cl. 61-1.

Patinkin, Seymour H., to Sinclair Research, Inc. Gasoline composition. 3,481,719, 12-2-69, Cl. 44-69.
Patinkin, Seymour H.; Kirk, James H.; and Steinhoff, William L., to Sinclair Research, Inc. Fuel oil composition having improved low temperature properties. 3,445,205, 5-20-69, Cl. 44-62.
Patinkin, Seymour H.; Verdol, Joseph A.; and Carrow, Donald J., to Sinclair Research, Inc. Diesel oil fuel compositions containing oil-soluble metal salts of partial imide polymer resins. 3,450,513, 6-17-69, Cl. 44-62.
Patinvest Paten-und Investment A.G.: *See*—
Egli, Ernst M., 3,436,502.
Patle, Chandra K. N., to Bell Telephone Laboratories, Incorporated. Parametric apparatus employing elemental tellurium or selenium or both. 3,450,997, 6-17-69, Cl. 330-4.5
Paton, Hamilton Neil King, to Dynabulk Corporation. Material discharging device for containers. 3,421,663, 1-14-69, Cl. 222-193.
Paton, Hamilton Neil King, to Dynabulk Corporation. Closure for container-lining membrane port. 3,421,665, 1-14-69, Cl. 222-386.5
Paton, Hamilton Neil King, to Dynabulk Corporation. Condensation-deterring container. 3,456,834, 7-22-69, Cl. 220-9.
Paton, John McDougall: *See*—
Grange, Arthur Savage; and Paton, John McDougall,3,476,450.
Patrick, Charles T., Jr.: *See*—
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr.,3,428,612.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr.,3,472,796.
Patrick, James R.: *See*—
Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney,3,445,339.
Patrick, Jean V. Hawser steering anti-yawing and safety mechanism for towed barges and the like. 3,469,552, 9-30-69, Cl. 114-236.
Patrick, John L., to Westinghouse Electric Corporation. Multiphase clock control system for machine tools. 3,430,036, 2-25-69, Cl. 235-151.11
Patrick, John W.: *See*—
Mischel, Philip B.; and Patrick, John W.,3,485,580.
Patrick, Malcom W.; and Forniti, Philip M., to White Consolidated Industries, Inc., mesne. Infrared heaters and generators. 3,424,146, 1-28-69, Cl. 126-92.
Patrick, Richard William: *See*—
Jarrett, Roy Chester; and Patrick, Richard William,3,448,248.
Patrick, Robert F.: *See*—
Begley, Edward R.; Patrick, Robert F.; and Wehrenberg, Thomas M.,3,470,004.
Patrick, Ronald J.; and Sautier, Philip M., to Pillsbury Company, The. Agglomerating process. 3,471,603, 10-7-69, Cl. 264-118.
Patrick, Rudolph R.: *See*—
Touzalin, Robert E.; and Patrick, Rudolph R.,3,459,536.
Patrick, William E.; and Fennesz, Frank, Jr., to Singer Company, The. Thread pull-offs. 3,439,639, 4-22-69, Cl. 112-242.
Patrickson, John Brian; Davey, Victor Stanley; and Wedepohl, Leonhard Martin, to Reyrolle, A., & Company Limited. Electric level-responsive circuits. 3,465,208, 9-2-69, Cl. 317-123.
Patrignani, Anna-Maria: *See*—
Patrignani, Leonida,3,441,763.
Patrignani, Leonida, deceased0 (by Patrignani, Nida0Patrignani, Anna-Maria0Patrignani, Sergio; legal representatives). Slipring motor or generator with an axial airgap. 3,441,763, 4-29-69, Cl. 310-179.
Patrignani, Nida: *See*—
Patrignani, Leonida,3,441,763.
Patrignani, Sergio: *See*—
Patrignani, Leonida,3,441,763.
Patriquin, George P.; and Haner, Harry J., to Cole National Corporation. Automatic code key cutter. 3,466,747, 9-16-69, Cl. 30-131.
Patron, Germano, to Montecatini Edison S.p.A. Stabilized halocarbon compositions. 3,423,476, 1-21-69, Cl. 260-652.5
Patron, Teodor; Niculescu, Ion Alexandru; and Anastasescu, Efrem, to Ministerul Petrolului. Device for well casing perforation with an abrasive fluid jet. 3,450,203, 6-17-69, Cl. 166-55.1
Patry, Ernest: *See*—
Patry, Harvey L.; Patry, Francis J.; Patry, Ernest; and Lamont, Harold Blair,3,468,285.
Patry, Francis J.: *See*—
Patry, Harvey L.; Patry, Francis J.; Patry, Ernest; and Lamont, Harold Blair,3,468,285.
Patry, Harvey L.; Patry, Francis J.; Patry, Ernest; and Lamont, Harold Blair. Apparatus for coating a strip. 3,468,285, 9-23-69, Cl. 118-221.
Patsch, Glenn F., to General Electric Company. Bromine regenerative cycle incandescent lamps with protective overwind coils on coiled filament legs. 3,470,410, 9-30-69, Cl. 313-37.
Pattee, John R.: *See*—
Huff, Earl C.; and Pattee, John R.,3,455,169.
Patten, Charles W.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,426,746.
Patten, Hudson T., III: *See*—
Lynch, Thomas H.; and Patten, Hudson T., III,3,482,647.
Patterson, Arch. Flow regulator. 3,468,338, 9-23-69, Cl. 137-517.
Patterson, C. J., Company: *See*—
Osipow, Lloyd I.; and Marra, Dorothea, 3,472,940.
Patterson, Colin D.; and Jefferson, Peter J., to Computing Devices of Canada Limited. Interrupt computer system. 3,425,037, 1-28-69, Cl. 340-172.5
Patterson, David D., to Garhan, Herschal F. Baby strollers. 3,421,774, 1-14-69, Cl. 280-41.
Patterson, Edward Mervyn, to Imperial Chemical Industries, Limited. Marine seismic detonator. 3,430,566, 3-4-69, Cl. 102-28.
Patterson, Ernest Leonard; Whaley, Howard Arnold; and Ellestad, George Alfred, to American Cyanamid Company. Deoxyfrenolicins. 3,452,051, 6-24-69, Cl. 260-345.2
Patterson, Fred H.: *See*—
McDonald Robert E.; Reimann, George A.; and Patterson, Fred H.,3,429,158.
Patterson, Gerald D., to Dow Chemical Company, The. Sonar apparatus for measuring underground caverns. 3,436,720, 4-1-69, Cl. 340-3.
Patterson, Granville P.: *See*—
Mc Pherson, George Bruce; and Patterson, Granville P.,3,478,884.
Patterson, Harold Clyde: *See*—
Helmick, B. J.; and Patterson, Harold Clyde,3,443,340.
Patterson, Harold W., to Boeing Company, The. Cavitating vapor extractor. 3,432,996, 3-18-69, Cl. 55-189.
Patterson, Hugh Thomas, to Du Pont de Nemours, E. I., and Company. Polyester tire cord lubricant. 3,475,204, 10-28-69, Cl. 117-138.8
Patterson, Hugh T.: *See*—
Spriestersbach, David Richard; Clarke, Ray Allen; Couper, Monroe; and Patterson, Hugh T.,3,473,998.
Patterson, Hugh T., to Du Pont de Nemours, E. I., and Company. Process for bonding rubber to polyester structures. 3,436,288, 4-1-69, Cl. 156-142.
Patterson, James A., to Sondell Research & Development Company. Centrifugal separation enhancement. 3,437,266, 4-8-69, Cl. 233-1.
Patterson, James A. Osmometer employing ultrasonic radiation. 3,439,529, 4-22-69, Cl. 73-64.3
Patterson, James A., to Sodell Research & Development Company. Method for preparing a slide for viewing. 3,447,863, 6-3-69, Cl. 350-320.
Patterson, James A., to Sondell Research & Development Company. Microsphere filter of filtration. 3,463,320, 8-26-69, Cl. 210-232.
Patterson, James A. Method and means of overcoming undesirable electrical forces in a chromatographic process. 3,471,261, 10-7-69, Cl. 23-230.
Patterson, James A. Analytical method and free energy measuring apparatus. 3,479,864, 11-25-69, Cl. 73-64.3
Patterson, James MacDowell, Jr.; and Davis, Rhodes W., to Farrington Business Machines Corporation. Selective document positioning means in bed and cylinder print machines. 3,421,436, 1-14-69, Cl. 101-45.
Patterson, James M. Knife holders. 3,423,144, 1-21-69, Cl. 312-280.
Patterson, James R.: *See*—
Henderson, Albert J.; Patterson, James R.; and Hahn, Raymond A.,3,422,053.
Patterson, John A.; Menapace, Lawrence W.; and Doyle, William P., to Texaco Inc. Production of secondary alkyl primary amines. 3,470,250, 9-30-69, Cl. 260-583.
Patterson, John A.: *See*—
Doyle, William P.; Patterson, John A.; and Peropoulos, Peter C.,3,470,252.
Patterson, John L., to Owens-Illinois, Inc. Metal chute coated with fluorocarbon polymer containing boron nitride platelets. 3,479,206, 11-18-69, Cl. 117-75.
Patterson, John Wesley. Lacrosse stick fence construction. 3,473,806, 10-21-69, Cl. 273-96.
Patterson, Marvin L. Synthetic inductor comprising a phase-shifting network for synthesizing the inductance. 3,448,411, 6-3-69, Cl. 333-80.
Patterson, Maurice M.: *See*—
Hamby, Tyler W., Jr.; and Patterson, Maurice M.,3,424,249.
Patterson, Maurice M.; and Prats, Michael, to Shell Oil Company. Method for consolidating an unconsolidated sand with a plasma jet stream. 3,443,639, 5-13-69, Cl. 166-288.
Patterson, Morehead, deceased0 (by Hills, George S., executor), to American Machine & Foundry Company. Cigarette making machine. 3,428,052, 2-18-69, Cl. 131-84.
Patterson, Richard K., Jr., to Ranco Incorporated. Windshield wiper system. 3,483,584, 12-16-69, Cl. 15-250.02
Patterson, Robert C. Litter bag support. 3,476,341, 11-4-69, Cl. 248-95.

Patterson, Robert C.; and Micheller, Rudolph J., to Combustion Engineering, Inc. Stack drier for shell and tube vapor generator. 3,467,066, 916-69, Cl. 122-34.
Patterson, Robert E.; and Ptacek, James F., to Vendo Company, The. Proximity control for a vending machine. 3,428,157, 2-18-69, Cl. 194-2.
Patterson, Robert E.; and Ptacek, James F., to Vendo Company, The. Fifty-cent solid-state totalizer. 3,472,351, 10-14-69, Cl. 194-9.
Patterson, Robert J.; and Tilton, Andre E., to Texas Instruments, Incorporated. Amorphous glass compositions. 3,440,068, 4-22-69, Cl. 106-47.
Patterson, Robert Joe, to Texas Instruments, Incorporated. Method for melt-casting infrared transmitting glasses. 3,451,794, 6-24-69, Cl. 65-18.
Patterson, William A., to Grace, W. R., & Co. Package and a method for exposing its contents. 3,425,541, 2-4-69, Cl. 206-46.
Patterson, William A., to Grace, W. R., & Co. Solvent shrinkable polymeric material. 3,429,794, 2-25-69, Cl. 204-159.14
Patterson, William A.; Schirmer, Henry G.; and Weissman, Stanley N., to Grace, W. R., & Co. Foamable polyethylene/styrene bodies. 3,432,447, 3-11-69, Cl. 260-2.5
Patterson, William F.; and Roland, Ernesto T., to North American Rockwell Corporation. Spiral antenna with zigzag arms to reduce size. 3,454,951, 7-8-69, Cl. 343-895.
Patterson, William F.; and Roland, Ernesto T., to North American Rockwell Corporation. Circularly-polarizing spiral antenna having sawtooth conductors. 3,465,346, 9-2-69, Cl. 343-895.
Patterson, William J., to LTV Aerospace Corporation. Apparatus and method for fabricating structures in contact with the earth's surface. 3,459,108, 8-5-69, Cl. 94-22.
Patterson-Kelley Co., Inc., The: *See*—
Morgan, Lemuel J., 3,446,938.
Morgan, Lemuel J.; and Lowe, Leonard F., 3,446,939.
Morgan, Lemuel J., 3,446,940.
Morgan, Lemuel J., 3,484,580.
Pattillo, John T.: *See*—
Lee, William S., 3,460,328.
Pattin, Howard S.: *See*—
Cleveland, Clark C.; French, Harry F.; and Pattin, Howard S.,3,432,359.
Pattison, Dexter Brayton, to Du Pont de Nemours, E. I., and Company. Fluorinated cure-site monomers and vulcanizable fluorocarbon polymers made therewith. 3,467,638, 9-16-69, Cl. 260-87.5
Pattison, Ian C., to Warner-Lambert Pharmaceutical Company. Preparation of 2-(4-biphenylyl)butyric acid. 3,483,248, 12-9-69, Cl. 260-515.
Pattison, Thomas W.: *See*—
Koo, Charles M. C.; Pattison, Thomas W.; and Herbst, David R.,3,458,498.
Pattison, Thomas W.; and Herbst, David R., to American Home Products Corporation. 1-Substituted-2-alkyl-3-(2-dialkylaminoethyl)indoles. 3,478,054, 11-11-69, Cl. 260-326.12
Pattison, Wesley S.: *See*—
Kauffman, Melvin R.; and Pattison, Wesley S.,3,466,109.
Kauffman, Melvin R.; and Pattison, Wesley S.,3,486,804.
Patton, Charles C., to Sangamo Electric Company. Eddy current coupling device. 3,423,615, 1-21-69, Cl. 310-105.
Patton, Donald M., to Lincoln Electric Company, The. Tubular welding electrode. 3,461,270, 8-12-69, Cl. 219-146.
Patton, James W.; Argabright, Perry A.; Drayer, Dennis E.; and Fox, Dale B., to Marathon Oil Company. Process for the oxidation of alkyl benzenes. 3,471,555, 10-7-69, Cl. 260-524.
Patton, James W.; and Seppi, Ned F., to Marathon Oil Company. Process for the autoxidation of substituted benzenes. 3,452,087, 6-24-69, Cl. 260-524.
Patton, James W.; and Son, Marion O., to Marathon Oil Company. Production of aromatic carboxylic acids and their alkali metal salts. 3,439,027, 4-15-69, Cl. 260-524.
Patton, James W.; and Son, Marion O., Jr., to Marathon Oil Company. Manufacture of carboxylic acids from corresponding metallic salts. 3,439,026, 4-15-69, Cl. 260-515.
Patton, James W.; and Son, Marion O., Jr., to Marathon Oil Company. Preparation of naphthalene-2,3-dicarboxylic acid. 3,487,106, 12-30-69, Cl. 260-515.
Patton, John T., Jr.; and Pizzini, Louis C., to Wyandotte Chemicals Corporation. Polyether amine oxide surface-active agents. 3,454,646, 7-8-69, Cl. 260-584.
Patton, John T., Jr.: *See*—
Austin, Arthur L.; Hartman, Robert J.; and Patton, John T., Jr.,3,439,067.
Pizzini, Louis C.; and Patton, John T., Jr.,3,441,616.
Patton, John T.; and Gillette, Thomas W., to Esso Research and Engineering Company. Ash removal in gasification of carbonaceous solids. 3,440,177, 4-22-69, Cl. 252-373.
Patton, Ralph J., to National Engineering, Inc. Mandrel assemly for winding machines. 3,452,941, 7-1-69, Cl. 242-46.3
Patton, Robert H.; and Bown, Delos E., to Esso Research and Engineering Company. Polyolefins stabilized by 2,3-dihydroxyquinoxaline. 3,425,984, 2-4-69, Cl. 260-45.8
Patton, Robert: *See*—
Kelly, Patrick McAvoy; and Patton, Robert,3,474,123.
Patton, Robert; and Pierpoint, Edward Keith, to Imperial Chemical Industries Limited. Silicon hydride-olefin addition. 3,439,014, 4-15-69, Cl. 260-448.2
Patton, Roy A., Jr. Method of making an electrical connector. 3,429,041, 2-25-69, Cl. 29-629.
Patton, Tad L.; Horeczy, Joseph T.; and Bown, Delos E., to Esso Research and Engineering Company. Alkenyl hindered phenol and a copolymer of an alkenyl phenol and a monoolefin. 3,477,991, 11-11-69, Cl. 260-47.
Patton, Temple C. Disposable, nestable bedpan. 3,460,164, 8-12-69, Cl. 4-112.
Patton, Temple C.: *See*—
Ehrlich, Arthur; Hayes, John W.; and Patton, Temple C.,3,483,150.
Patton, Wilbur L.: *See*—
Buchovecky, Kalman E.; and Patton, Wilbur L.,3,478,136.
Patton, Wilbur L.; and Riley, Harry, to Du Pont de Nemours, E. I., and Company. Roll flange scraping device and process employing same. 3,471,602, 10-7-69, Cl. 264-111.
Patuzzi, Alexander: *See*—
Puhringer, Othmar; and Patuzzi, Alexander,3,460,820.
Patyna, Stanley T.; and Payne, William J., to Ford Motor Company. Hollow bolt and method of making same. 3,457,573, 7-29-69, Cl. 10-27.
Patz, Paul. Endless conveyor cattle feeder. 3,463,124, 8-26-69, Cl. 119-52.
Patz, Paul; and Graetz, Edward A. Fligat for barn cleaners. 3,447,667, 6-3-69, Cl. 198-171.
Patzauer, Gyozo, to Egyesult Izzolampa es Villamossagi Reszvenytarsasag. Process for working up ores which contain tungsten. 3,464,783, 9-2-69, Cl. 23-18.
Patzer, Hans E.: *See*—
Grable, Ronald C.; and Patzer, Hans E.,3,430,835.
Patzias, Terry: *See*—
Ostberg, Werner; and Patzias, Terry,3,437,329.
Patzlaff, Albert W. Berry harvesting machine. 3,478,501, 11-18-69, Cl. 56-330.
Paufve, Eldred H.: *See*—
Ebeling, William C.; and Paufve, Eldred H.,3,439,105.
Pauksch, Heinrich; and Massonne, Joachim, to Kali-Chemie Aktiengesellschaft. Process for the preparation of trifluoromethane. 3,466,341, 9-9-69, Cl. 260-653.8
Paul, Albert E., to Bunker-Ramo Corporation, The. Process for salvaging armored cable and structure used for the same. 3,450,829, 6-17-69, Cl. 174-89.
Paul, Albert E.: *See*—
Gerlach, Glenn W.; and Paul, Albert E.,3,450,948.
Paul, Albert Peter, to American Cyanamid Company. Das-triazine brighteners and paper made therewith. 3,464,886, 9-2-69, Cl. 162-162.
Paul, Anthony. Collapsible lamp shade. 3,435,205, 3-25-69, Cl. 240-108.
Paul, Bernt; Weiss, Herbert; and Wilhelm, Manfred, to Siemens Aktiengesellschaft. Polarizing reflextor for electromagnetic wave radiation in the micron wavelength. 3,439,973, 4-22-69, Cl. 350-147.
Paul, Bruce F., to USM Corporation. Method and means for making elliptoids. 3,435,501, 4-1-69, Cl. 29-148.4
Paul, Burton; and Stoker, Robert J., to Ingersoll-Rand Company. Steam dome. 3,454,086, 7-8-69, Cl. 165-67.
Paul, Carl E.: *See*—
Rayno, Glenn D.; Grahame, Frederick W.; and Paul, Carl E.,3,444,602.
Paul, Donald K. Transportation system. 3,482,529, 12-9-69, Cl. 104-25.
Paul Foundry & Manufacturing Company: *See*—
Barnard, Benjamin R.; and Maass, Gustav, 3,451,357.
Paul, Frank B.: *See*—
Cole, William C.; Paul, Frank B.; and Wood, Clifton E.,3,459,598.
Paul, Frank W.: *See*—
Ovshinsky, Herbert C.; and Paul, Frank W.,3,447,622.
Paul, Harald Hugo: *See*—
Koch, Heinz; and Paul, Harald Hugo,3,462,796.
Paul, James H.: *See*—
Miller, Donald L.; Paul, James H.; and Kavanaugh, Sherman W.,3,469,742.
Paul, James T., Jr., to Hercules Incorporated. Glass fiber reinforced crystalline polypropylene composition and laminate. 3,437,550, 4-8-69, Cl. 161-93.
Paul, James T., Jr., to Hercules Incorporated. Roving impregnator for making low-void filament wound articles. 3,473,513, 10-21-69, Cl. 118-405.
Paul, James T., Jr., to Hercules Incorporated. Method of making filament wound articles. 3,480,498, 11-25-69, Cl. 156-175.
Paul, James T., Jr., to Hercules Incorporated. Method of making low-void filament wound structures. 3,480,499, 11-25-69, Cl. 156-175.

Paul, James T., Jr.: *See—*
Metz, Bruce E.; Paul, James T., Jr.; and Le Noir, James A.,3,473,511.
Paul, Jeff P. Quick-action plastics safety razors. 3,473,220, 10-21-69, Cl. 30-67.
Paul, Joseph C.: *See—*
Jorgensen, Adam A.; Bentley, R William; and Paul, Joseph C.,3,474,364.
Paul, Kenneth V.; and Johnson, William F. Stringed musical instrument. 3,435,722, 4-1-69, Cl. 84-312.
Paul, Lowell A.; and Adams, Loyd, to Dakon-Adams Co. Palletizer. 3,429,459, 2-25-69, Cl. 214-6.
Paul, Lowell A.; and Adams, Loyd, to Aeroceanic Corporation. Article sorting and conveying apparatus with article input and discharge stations that forms the support for the conveyed article. 3,484,001, 12-16-69, Cl. 214-11.
Paul, Thomas Campbell, to Dowty Meco Limited. Machine for cutting a roadway in underground workings. 3,442,554, 5-6-69, Cl. 299-71.
Paul, Walter: *See—*
Kappelhoff, Hermann; Gunnerich, Max Georg; Paul, Walter; Steinbeck, Walter; and Niemeyer, Willy,3,448,666.
Paul, William T.: *See—*
Cozzarin, Edward; Nemeth, Emery; and Paul, William T.,3,469,468.
Heatwaite, Hewart H.; Mead, Robert H.; and Paul, William T.,3,469,466.
Paule, Kurt: *See—*
Hettich, Alfred; Schadlich, Fritz; Walz, Heinz; and Paule, Kurt,3,475,780.
Paule, Kurt; Bleicher, Manfred; Martin, Hans; Wanner, Karl; Bronnert, Helmut; and Kochler, Heinrich, to Bosch, Robert, GmbH. Power tool. 3,456,740, 7-22-69, Cl. 173-109.
Pauletta, Carl E., to Air Preheater Company, Inc., The. Concentric tube odor eliminator. 3,468,634, 9-23-69, Cl. 23-288.
Pauletti, Anthony: *See—*
Lodge, James R.; and Pauletti, Anthony,3,475,191.
Pauley, Reginald W.; and Kramer, Leo, to Ingersoll-Rand Company. Impulse tool having shut-off mechanism. 3,440,928, 4-29-69, Cl. 91-59.
Pauli, Frank A., to United States of America, National Aeronautics and Space Administration. Attitude controls for VTOL aircraft. 3,472,470, 10-14-69, Cl. 244-76.
Pauli, Otto: *See—*
Paulus, Wilfried; Kuhle, Engelbert; Pauli, Otto; Sasse, Klaus; and Klauke, Erich,3,478,027.
Paulig, Konrad W.; and Olson, Arthur R., to Kendall Company, The. Impregnated nonwoven needled fabric consisting of a blend of synthetic fibers. 3,476,638, 11-4-69, Cl. 161-148.
Paulik, Frank E.; Robinson, Ken K.; and Roth, James F., to Monsanto Company. Vapor phase hydroformylation process. 3,487,112, 12-30-69, Cl. 260-604.
Pauling, Harry: *See—*
Schmitt, Karl; Ester, Wilhelm; Heumann, Hans; and Pauling, Harry,3,453,071.
Pauliukonis, Richard S.: *See—*
Robertson, Anthony E.; Pauliukonis, Richard S.; and Eichenberger, Hans P.,3,486,332.
Paulkovich, John, to United States of America, National Aeronautics and Space Administration. Apparatus for measuring current flow. 3,422,352, 1-14-69, Cl. 324-120.
Paull, Morris, to Chemtrox Corporation. Audio-visual apparatus. 3,477,780, 11-11-69, Cl. 353-16.
Paull, Peter L.; Klein, John A.; and Dille, Roger M., to Texaco Inc. Recovery of carbon from synthesis gas. 3,473,903, 10-21-69, Cl. 48-212.
Paullus, Clarence Leonard; and Zimmerman, John Aaron, Jr., to AMP Incorporated. Interconnection wiring system. 3,456,231, 7-15-69, Cl. 339-60.
Rayno, Glenn D.; Grahame, Frederick W.; and Paul, Carl E.,3,444,602.
Pauls, Edward A., to Research, Incorporated. Heat energy receptor-radiator wall. 3,436,524, 4-1-69, Cl. 219-347.
Pauls, Lawrence A.: *See—*
Adler, Meryle D. W.; Halderman, Joseph, Jr.; and Pauls, Lawrence A.,3,469,503.
Adler, Meryle D.W.; and Pauls, Lawrence A.,3,471,279.
Pauls, Theron F., to Olin Mathieson Chemical Corporation. Electrical baseboard heater. 3,463,904, 8-26-69, Cl. 219-341.
Paulsen, Jean-Felix, to Societe Luxembourgeoise de Brevets et de Participations. Resilient couplings. 3,438,221, 4-15-69, Cl. 64-14.
Paulsen, Jean Felix, to Societe Luxembourgeoise de Brevets et de Participations. Resilient couplings, in particular for use in automobile vehicles. 3,438,222, 4-15-69, Cl. 64-27.
Paulsen, Jean Felix, to Societe Luxembourgeoise de Brevets et de Participations. Packing devices for rotating shafts. 3,438,639, 4-15-69, Cl. 277-84.
Paulsen, John D., to Ermanco Incorporated, mesne. Diverter for conveyor systems. 3,465,870, 9-9-69, Cl. 198-188.
Paulsen, Roy; and Day, Ronald L. Handle assembly. 3,431,007, 3-4-69, Cl. 294-31.2
Paulsen, Siegfried: *See—*
Jankowski, Alfons; Kolling, Georg; and Paulsen, Siegfried,3,472,846.
Paulson, Donald C., to General Motors Corporation. Method of molding a thermoplastic article to obtain preferred directional physical properties. 3,483,288, 12-9-69, Cl. 264-328.
Paulson, Elmir E., to General Electric Company. Noise reduction. 3,477,231, 11-11-69, Cl. 60-269.
Paulson, Harold E., to Curtis One Thousand. Continuous envelopes. 3,456,869, 7-22-69, Cl. 229-69.
Paulson, Kendall G., to Electronic Engineering Company of California. Process for interconnecting integrated circuits. 3,440,722, 4-29-69, Cl. 29-626.
Paulson, Kendall G., to Electronic Engineering Company of California. Process and product for interconnecting integrated circuits. 3,441,805, 4-29-69, Cl. 317-101.
Paulson, Nils I., to Playskool Inc., mesne. Toy blocks with means permitting greater tolerance in the alignment of male and female connectors. 3,481,068, 12-2-69, Cl. 46-25.
Paulson, Raymond, to Moore, Samuel, and Company. Strand tensioning device. 3,478,982, 11-18-69, Cl. 242-129.8
Paulson, Rueben E., to Universal Oil Products Company. Centrifugal fluid strainer. 3,481,474, 12-2-69, Cl. 210-304.
Paulus, Erwin F.: *See—*
Rothauser, Ernst H.; and Paulus, Erwin F.,3,431,355.
Paulus, Erwin, to International Business Machines Corporation. Logarithmic analog to digital converter. 3,444,550, 5-13-69, Cl. 340-347.
Paulus, Jerry Lee, to McGraw-Edison Company. Transformer fuse mounting. 3,435,291, 3-25-69, Cl. 317-15.
Paulus, Peter V., to Standard Products Company, The. Resilient corner gasket. 3,445,965, 5-27-69, Cl. 49-479.
Paulus, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Exposure regulating circuit arrangement for a copying machine. 3,426,357, 2-4-69, Cl. 355-68.
Paulus, Rudolf: *See—*
Nassenstein, Heinrich; Dedden, Hubert; and Paulus, Rudolf,3,469,480.
Paulus, Wilfried; Kuhle, Engelbert; Pauli, Otto; Sasse, Klaus; and Klauke, Erich, to Farbenfabriken Bayer Aktiengesellschaft. N-Trihalomethylthio-sulphonic acid amides. 3,478,027, 11-11-69, Cl. 260-250.
Paulusma, Pieter: *See—*
Van Lohuizen, Otto E.; Paulusma, Pieter; and Van Kinschot, Gaspard L. F.,3,457,343.
Paulve, Marcel Luc Amede, to Societe d'Exploitation des Procedes Paulve. Electrical connecting device. 3,452,325, 6-24-69, Cl. 339-269.
Pauly, Ronald R.; and Zbikowski, Theodore H., to Tonka Corporation. Toy loader. 3,462,874, 8-26-69, Cl. 46-40.
Pausch, Josef, to Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft. Supersonic cleaning of filtering media. 3,436,899, 4-8-69, Cl. 55-302.
Pausch, Karl: *See—*
Graff, Roderich; Reichl, Karl Johann; Butz, Josef; and Pausch, Karl,3,477,894.
Paustian, John E.; and Fein, Marvin M., to Thiokol Chemical Corporation. High-energy propellant. 3,459,607, 8-5-69, Cl. 149-8.
Paustian, John E.; Fein, Marvin M.; and Cohen, Murray S., to Thiokol Chemical Corporation. Method of making hydrazinium diperchlorate. 3,436,172, 4-1-69, Cl. 23-85.
Paustian, John E.: *See—*
Fein, Marvin M.; Paustian, John E.; and Lichstein, Bernard M.,3,483,258.
Pauwels, Edward M., to Bendix Corporation, The. Fail safe fluid regulator. 3,434,489, 3-25-69, Cl. 137-98.
Pav, Jarmil. Beating device for the continuous processing of material stock. 3,451,630, 6-24-69, Cl. 241-188.
Pavan, Emilio: *See—*
Caprioli, Gianguido; Pistoia, Serenella; and Pavan, Emilio,3,444,261.
Pavelle Limited: *See—*
Aston, Keith, 3,458,254.
Pavena A.G.: *See—*
Naegeli, Werner, 3,426,389.
Naegeli, Werner, 3,432,889.
Pavey, John Anthony: *See—*
Burton, Harold; Pavey, John Anthony; Jayne-Williams, Derek James; and Hansen, William Frederick,3,486,840.
Pavey, John Anthony, to National Research Development Corporation. Container sterilising and filling apparatus. 3,481,109, 12-2-69, Cl. 53-167.
Pavia, Leonard W., to Pavia-Farny Associates. Electronic organ keying system. 3,463,867, 8-26-69, Cl. 84-1.21
Pavia-Farny Associates: *See—*
Pavia, Leonard W., 3,463,867.

Pavlas, Garnet L., to Schlumberger Technology Corporation. Coupling device for use in well tools. 3,433,304, 3-18-69, Cl. 166-226.

Pavlica, Stanley R.: *See—*
McCreight, Donald O.; Miller, Eldon D.; and Pavlica, Stanley R.,3,463,650.

Pavlica, Stanley R.; and Wishon, Berhl E., to Dresser Industries, Inc. Aluminosilicate refractory brick. 3,421,917, 1-14-69, Cl. 106-67.

Pavlichev, Alexei Fedorovich: *See—*
Yakovich, Ninel Iosifovna; Khcheyan, Khachik Egorovich; Izrael, Larisa Borisovna; Pavlichev, Alexei Fedorovich; and Kondtratieva, Nina Nikolaevna,3,439,059.

Pavlik, Frank J., to Minnesota Mining and Manufacturing Company. Process for the preparation of fluorocarbon sulfinates and derivatives thereof. 3,420,877, 1-7-69, Cl. 260-513.7

Pavlik, Frank J. Free movable skid. 3,456,826, 7-22-69, Cl. 214-515.

Pavlik, Frank J., to Minnesota Mining and Manufacturing Company. Metal chelates having a phosphate ester group containing a perfluoroaliphatic radical. 3,465,014, 9-2-69, Cl. 260-448.

Pavlik, Thomas J., to Dick, A. B., Company. Modulated scanning system. 3,443,028, 5-6-69, Cl. 178-7.2

Pavlin, Cyrille F., to Societe Bertin & Cie. Fluid amplifiers. 3,456,665, 7-22-69, Cl. 137-81.5

Pavlov, Sergei Vasilievich: *See—*
Nesvizhsky, Jury Borisovich; Pavlov, Sergei Vasilievich; and Boronichev, Gennady Konstantinovich,3,425,013.

Pavlovsky, Vadim Eduardovich: *See—*
Filatov, Eduard Yakovlevich; and Pavlovsky, Vadim Eduardovich,3,430,502.

Pavlow, Maurice. Convertible arrays of pleated sheet material. 3,481,463, 12-2-69, Cl. 206-82.

Pavone, Robert J.: *See—*
Gerber, Heinz Joseph; and Pavone, Robert J.,3,477,322.

Pawlak, Zbigniew; Michalski, Kazimierz; and Surowiecki, Jerzy. Apparatus and process for manufacturing spherical cores for an orally administrable substance. 3,439,633, 4-22-69, Cl. 107-54.

Pawletko, Joseph P.: *See—*
Kozol, Eugene T.; and Pawletko, Joseph P.,3,443,181.

Pawletko, Joseph P., to International Business Machines Corporation. Character recognition apparatus. 3,471,832, 10-7-69, Cl. 340-146.3

Pawlik, Guenter: *See—*
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin,3,426,661.

Pawlik, Gunter: *See—*
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasilewski, Erwin; and Wagner, Karl,3,465,656.

Pawlikowski, George. Hair trimming device. 3,421,213, 1-14-69, Cl. 30-30.

Pawlikowski, Stanley L.; and Say, Donald L., to Sylvania Electric Products, Inc. Resilient means for supporting a directly heated planar cathode. 3,440,474, 4-22-69, Cl. 313-278.

Pawling, Frank, deceased0 (by Pawling, Ruth Corfe; executrix), to Dowty Mining Equipment Limited, mesne. Fluid-flow control valve. 3,425,450, 2-4-69, Cl. 137-630.22

Pawling, Ruth Corfe: *See—*
Pawling, Frank,3,425,450.

Pawloski, Chester E.; and Moore, Eugene R., to Dow Chemical Company, The. Process for making chlorostyrene copolymers. 3,440,229, 4-22-69, Cl. 260-78.5

Pawloski, Victor A.: *See—*
Derbyshire, John, Jr.; Pollack, Isidore; and Pawloski, Victor A.,3,425,950.

Pawlowski, Frank L., to Motorola, Inc. Forschungslaboratorium, Heimann, Walter, Prof. Dr.-Ing. Series resonant circuit for coupling output of mixer to input of intermediate frequency amplifier. 3,437,934, 4-8-69, Cl.

Pawlowski, Jerzy: *See—*
Trylinski, Wladyslaw; Burzynski, Stanislaw; Pawlowski, Jerzy; and Rawski, Ryszard,3,485,446.

Pawson, Beverly A.: *See—*
Siegel, Joel R.; and Pawson, Beverly A.,3,458,530.

Pax, Francis J.: *See—*
Pax, Oscar E.; and Pax, Francis J.,3,456,465.

Pax, Henry A. Combustion efficiency of rotating combustion engines. 3,463,126, 8-26-69, Cl. 123-8.

Pax, Oscar E.; and Pax, Francis J. Press feeder. 3,456,465, 7-22-69, Cl. 72-4.

Paxton, Floyd G. Bag enclosing re-closing facility. 3,439,867, 4-22-69, Cl. 229-62.

Paxton, Herbert J., Jr.: *See—*
Welch, Frank J.; and Paxton, Herbert J., Jr.,3,422,079.

Paxton, Jerre H. Roll of flexible plastic bags in partible sequential continuity, the individual bags having respectively echeloned sheet plastic closure facilities. 3,446,344, 5-27-69, Cl. 206-59.

Paxton, Jerre H. Roll of flexible plastic bags in partible sequential continuity, the individual bags having respectively echeloned filamentary closure facilities. 3,481,461, 12-2-69, Cl. 206-56.

Paxton, Robert B., to Du Pont de Nemours, E. I., and Company. Polyethylene polyvinyl fluoride film laminated structure and process of making same. 3,454,461, 7-8-69, Cl. 161-189.

Paxton, Roy K.: *See—*
Buynak, George R.; and Paxton, Roy K.,3,459,392.

Pay, Donald Alexander; Butt, Anthony John; and Deveson, John Harwood, to Marconi Company Limited, The. Synchronising apparatus for remote television cameras. 3,429,994, 2-25-69, Cl. 178-7.2

Payer-Lux Eduard Payer: *See—*
Liska, Erich, 3,423,826.
Liska, Erich, 3,460,250.

Payerle, Frank S., to North American Rockwell Corporation, mesne. Foot pedal connector for push-pull control cable. 3,468,187, 9-23-69, Cl. 74-512.

Payet, George L.: *See—*
Bill, Walter E.; and Payet, George L.,3,476,502.

Payette, Lionel J., to General Electric Company. Polyester resin wire coating compositions. 3,442,847, 5-6-69, Cl. 260-33.4

Paymax Syrup Corporation: *See—*
Freise, William G.; and Przybyszewski, Benjamin M., 3,421,430.

Payment, Robert J.: *See—*
Ellwanger, Charles G.; Huscher, Howard I.; and Payment, Robert J.,3,468,435.

Payne, Alfred John, to Detexomat Limited. Electronic controlled pneumatic conveyor. 3,449,015, 6-10-69, Cl. 302-27.

Payne, Amos O., to Case, J. I., Company. Control mechanism for variable ratio drive. 3,460,399, 8-12-69, Cl. 74-230.17

Payne, Amos O., to Case, J. I., Company. Sieve for combine. 3,472,377, 10-14-69, Cl. 209-394.

Payne, Amos O., to Case, J. I., Company. Remote adjustment for combine sieve. 3,472,378, 10-14-69, Cl. 209-394.

Payne, Calvin L., Jr., to Tudor Metal Products Corporation. Toy bowling game. 3,442,511, 5-6-69, Cl. 273-41.

Payne, Charles F. Orchard heating apparatus. 3,470,863, 10-7-69, Cl. 126-59.5

Payne, Clifford L. Phase demodulated high frequency bridge inverter. 3,423,663, 1-21-69, Cl. 321-5.

Payne, Errol G., to Peripheral Data Machines, Inc. Bistable visual display device. 3,460,276, 8-12-69, Cl. 35-66.

Payne, George B., to Shell Oil Company. Dihydrofuran derivatives. 3,455,964, 7-15-69, Cl. 260-347.4

Payne, Harold A. Venetian blind. 3,468,360, 9-23-69, Cl. 160-172.

Payne, Harry R., to Seeburg Corporation, The. Cradle mechanism. 3,424,345, 1-28-69, Cl. 221-116.

Payne, Howard H.: *See—*
Dimond, Robert M.; and Payne, Howard H.,3,434,419.

Payne, Ivan Salisbury, to Lansing Bagnall Limited. Control systems for direct current electric motors. 3,441,827, 4-29-69, Cl. 318-332.

Payne, Jackie E.; and Hinson, Larry D. Vapor-phase aldol condensation of acetaldehyde. 3,450,769, 6-17-69, Cl. 260-601.

Payne, Jimmie S., Jr.; and Gardner, Pete D., to Tracor, Inc. Condensation products of aldehydes or ketones with diamines and monoamines. 3,461,100, 8-12-69, Cl. 260-72.

Payne, John: *See—*
Lloyd, Dewi Gerwyn; and Payne, John,3,447,365.

Payne, Le Roy, to Weyerhaeuser Company. Method and apparatus for extruding and applying plastic materials. 3,469,281, 9-30-69, Cl. 18-12.

Payne, Leslie Elmer, to Reynolds, R. J., Tobacco Company. Cigarette loose end detector-rejector mechanism. 3,485,357, 12-23-69, Cl. 209-73.

Payne, Leslie E.: *See—*
Pinkham, Jesse R.; Payne, Leslie E.; Michal, David H.; and McArthur, Colin S.,3,456,787.

Payne, Linwood K., Jr.; and Weiden, Mathias H. J., to Union Carbide Corporation. Alkyl and aryl 4-(methylcarbamoyloxy) carbanilates. 3,450,745, 6-17-69, Cl. 260-471.

Payne, Linwood K., Jr.; and Weiden, Mathias H. J., to Union Carbide Corporation. 2-Nitro-2-methyl cyclopentanone N-methyl carbomoyloxime. 3,462,490, 8-19-69, Cl. 260-566.

Payne, Linwood K., Jr.; and Weiden, Mathias H. J., to Union Carbide Corporation. Alpha-cyano carbamoyloxime compounds. 3,466,316, 9-9-69, Cl. 260-465.4

Payne, Linwood K., Jr.; and Weiden, Mathias H. J., to Union Carbide Corporation. 2-Methyl-2-nitrobicyclo[2.2.1]heptan-3-one N-methylcarbamoyloxime. 3,479,405, 11-18-69, Cl. 260-566.

Payne, Marshall C.: *See—*
Beutler, Hans; and Payne, Marshall C.,3,472,677.

Payne, Paul C.: *See—*
Hoy, Kenneth L.; and Payne, Paul C.,3,440,192.

Payne, Paul E.: *See—*
Whang, Sang Y.; Bleckner, Edward, Jr.; Weiss, Burton J.; and Payne, Paul E.,3,453,552.

Payne, Percy A., to Esso Production Research Company. Measurement of earth formation pressures. 3,422,672, 1-21-69, Cl. 73-151.

Payne, Peter R., to Wyle Laboratories, mesne. Cargo transport apparatus using air cushion support. 3,465,533, 9-9-69, Cl. 61-67.
Payne, Robert A.; and Van Der Molen, John F., to Stewart-Warner Corporation. Machine control system. 3,453,549, 7-1-69, Cl. 328-72.
Payne, Robert L.: *See—*
Reynolds, Kent R.; and Payne, Robert L.,3,429,398.
Payne, William E.; and Mariz, Carl L., to Phillips Petroleum Company. Method and apparatus for removing solids from filter. 3,468,863, 9-23-69, Cl. 260-93.7
Payne, William J.: *See—*
Patyna, Stanley T.; and Payne, William J.,3,457,573.
Payne, William Woolley; and Hayter, Jack, to Dobson, W. E. & F., Limited. Mine roof support means. 3,439,508, 4-22-69, Cl. 61-45.
Paynor, Melvin, to Fulford Manufacturing Company. Strap fastener. 3,452,405, 7-1-69, Cl. 24-265.
Paynter, Howard L., to Martin-Marietta Corporation. Zero or reduced gravity storage system for two phase fluid. 3,486,302, 12-30-69, Cl. 55-159.
Paynter, William D.: *See—*
Kielsmeier, Elwood W.; and Paynter, William D.,3,473,190.
Payson, Albert. Playing stick for a percussion instrument. 3,422,719, 1-21-69, Cl. 84-422.
Payton, James Y., to Litton Systems, Inc. Nondestructive tunnel diode memory system. 3,425,040, 1-28-69, Cl. 340-173.
Payton, Joy T.: *See—*
Harnsberger, Bobby G.; and Payton, Joy T.,3,429,373.
Pazola, Zdzislaw; Switek, Henryk; Janicki, Jozef; and Michnikowska, Wanda, to Centraline Laboratorium Przemyslu Koncentratow Spozywczych. Method for the microbiological production of carotenes. 3,476,646, 11-4-69, Cl. 195-28.
PCR Patent Development Corporation: *See—*
Bartsch, James R., 3,438,933.
Pe Tel, Inc.: *See—*
Traxler, Peter E., 3,476,895.
Peabody Coal Company: *See—*
Mansfield, Vaughn, 3,434,931.
Mansfield, Vaughn, 3,434,932.
Mansfield, Vaughn, 3,434,933.
Peace, Robert G.: *See—*
Delaire, Gerard V.; and Peace, Robert G.,3,454,694.
Peacock, Dixon W., to Phillips Petroleum Company. Esters of tall oil pitch and polyoxyethylene compounds and their use as drilling fluid additives. 3,461,068, 8-12-69, Cl. 252-8.5
Peacock, Dixon W., to Phillips Petroleum Company. Oil shale process. 3,476,650, 11-4-69, Cl. 201-32.
Peacock, Frank. Cloth-shaping apparatus. 3,467,290, 9-16-69, Cl. 223-52.
Peacock, Glenn S., to Union Carbide Corporation. Method of providing sheathed cables with controlled insulation strippability. 3,424,631, 1-28-69, Cl. 156-51.
Peacock, Robert David, to International Standard Electric Corporation. Method of making semiconductor devices. 3,436,809, 4-8-69, Cl. 29-578.
Peake, John S.; and Arens, Robert P., to Minnesota Mining and Manufacturing Company. Coating solid particles with refractory metals. 3,442,690, 5-6-69, Cl. 117-100.
Peale, Alfred N., to Ingersoll-Rand Company. Flyweight. 3,421,414, 1-14-69, Cl. 91-458.
Pean, Fred E., to American Chain & Cable Company, Inc. Switch assembly for power and free conveyor. 3,443,525, 5-13-69, Cl. 104-88.
Pear, Charles B., Jr., to Radiation, Incorporated. Flux-responsive head. 3,439,355, 4-15-69, Cl. 340-174.1
Pear, Charles B., Jr., to Radiation Incorporated. Readout system for magnetic records with variations of spacing between head and record. 3,456,249, 7-15-69, Cl. 340-174.1
Pearce, George, to Smiths Industries Limited. Electromechanical transducer assemblies. 3,460,062, 8-5-69, Cl. 340-11.
Pearce, Godfrey R.; Sparrow, Lawrence R.; and Braiman, Jerry, to Mallory, P. R., & Co., Inc. Encapsulated capacitor made of thermoplastic materials. 3,474,300, 10-21-69, Cl. 317-230.
Pearce, Graham: *See—*
Richards, Claude L.; Cartwright, John A.; and Pearce, Graham,3,432,799.
Pearce, Harry H.; Turner, James B.; and Wise, Harold L., to Shell Oil Company. Fairings for a marine towline. 3,461,830, 8-19-69, Cl. 114-235.
Pearce, James G., to Stromberg-Carlson Corporation. Call forwarding arrangement. 3,485,957, 12-23-69, Cl. 179-18.
Pearce, James G.; and Pharis, William W., to Stromberg-Carlson Corporation. Supervisory control register buffer. 3,436,733, 4-1-69, Cl. 340-172.5
Pearce, James G.; and Pharis, William W., to Stromberg-Carlson Corporation. Stuck relay alarm circuit. 3,485,955, 12-23-69, Cl. 179-18.
Pearce, James G.; Pharis, William W.; and Schneider, Gerhard O. K., to Stromberg-Carlson Corporation. Universal junctor. 3,487,170, 12-30-69, Cl. 179-18.
Pearce, John A.; and Binzoni, Emilio M., to Pitney-Bowes, Inc. Drive mechanism. 3,473,394, 10-21-69, Cl. 74-52.
Pearce, Malcolm B., Jr., to Loctite Corporation. Self-sealing mechanical fastener. 3,469,490, 9-30-69, Cl. 85-1.
Pearce, Malcolm B., Jr., to Loctite Corporation. Self-sealing mechanical fastener. 3,472,301, 10-14-69, Cl. 151-14.5
Pearce, Michael L., to Air Reduction Company, Incorporated. High strength refractory body. 3,470,117, 9-30-69, Cl. 260-2.5
Pearce, Michael L.: *See—*
McCabe, Neale R.; and Pearce, Michael L.,3,451,772.
Pearce, Roy George: *See—*
Disley, Kenneth Thomas; Pearce, Roy George; Christopher, Leonard Henry; and Culver, Leonard James,3,441,006.
Pearce, Shairyl I.: *See—*
Broeker, Elmer W.; and Pearce, Shairyl I.,3,433,017.
Broeker, Elmer W.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,463,278.
Callegari, William A.; Matthews, Ralph W.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,465,851.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,444,762.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,444,968.
Golan, Kenneth F.; Pearce, Shairyl I.; and Horsch, Joachim,3,452,621.
Horsch, Joachim; Johnson, Lowell E.; and Pearce, Shairyl I.,3,424,029.
Johnson, Lowell E.; Hansen, Robert C.; Pearce, Shairyl I.; and Lanchantin, Charles E., Jr.,3,478,621.
Morris, Hugh C.; Pearce, Shairyl I.; Ramsel, Charles A.; and Rohweder, Gerald D.,3,429,328.
Pearce, Shairyl I.; Thorne, Dale C.; and Starling, James G., to Caterpillar Tractor Company. Transmission shift control. 3,481,435, 12-2-69, Cl. 192-4.
Pearce, Wylie B., III. Submarine pipeline caisson. 3,473,338, 10-21-69, Cl. 61-69.
Pearl, Blaine H.: *See—*
Morgan, Thomas J.; Pearl, Blaine H.; and Pearson, Gilbert D.,3,454,252.
Pearl David R., to Combustion Engineering, Inc. Furnace grate and air supply therefor. 3,444,831, 5-20-69, Cl. 110-33.
Pearl, David R.: *See—*
Taylor, Herbert E.; and Pearl, David R.,3,447,493.
Taylor, Herbert E.; Pearl, David R.; and Wolfson, Lawrence S.,3,435,578.
Pearl, Donald C.: *See—*
Breitenstein, Charles T.; Pearl, Donald C.; and Eliason, Walter A.,3,429,253.
Pearlman, Alan R., to Teledyne, Inc., mesne. Antilogarithmic function generator. 3,444,362, 5-13-69, Cl. 235-197.
Pearlman, Lawrence. Adjustable orthodontic device. 3,423,833, 1-28-69, Cl. 32-14.
Pearlman, Lawrence. Orthodontic device. 3,469,314, 9-30-69, Cl. 32-14.
Pearlstein, Fred, to United States of America, Army. Electroless deposition of nickel-phosphorus based alloys. 3,485,597, 12-23-69, Cl. 29-194.
Pearlstein, Fred; Wick, Reyburn W.; and Gallaccio, Anthony, to United States of America, Army. Chromating beryllium for high temperature protection. 3,485,682, 12-23-69, Cl. 148-6.2
Pearman, James R. G., to Eastman Kodak Company. Cigarette filters of paper containing cellulose acetate fibers. 3,426,764, 2-11-69, Cl. 131-267.
Pearne and Lacy Machine Company, Inc.: *See—*
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G., 3,436,895.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G., 3,474,917.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G., 3,478,397.
Pearne, Frank S., 3,478,896.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G., to Pearne and Lacy Machine Company, Inc. Wrapping and palletizing of cylindrical products. 3,436,895, 4-8-69, Cl. 53-214.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G., to Pearne and Lacy Machine Company, Inc. Brick machine. 3,474,917, 10-28-69, Cl. 214-7.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G., to Pearne and Lacy Machine Company, Inc. Brick cutter and hacker. 3,478,397, 11-18-69, Cl. 25-2.
Pearne, Frank S.: *See—*
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G.,3,436,895.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G.,3,474,917.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G.,3,478,397.
Pearne, Frank S., to Pearne and Lacy Machine Company, Inc. Apparatus for tying brick stacks. 3,478,896, 11-18-69, Cl. 214-6.
Pearsall, Robert P., to Universal Oil Products Company. Bar type screening unit with resilient edge sealing means. 3,483,974, 12-16-69, Cl. 209-273.

Pearsall, Samuel H., Jr.: *See—*
Benson, Robert W.; and Pearsall, Samuel H., Jr.,3,461,302.

Pearsall, Thomas J., to Continental Aviation and Engineering Corporation. Combustion chamber for burning anhydrous ammonia. 3,455,282, 7-15-69, Cl. 123-1.

Pearse, James N., to Allen-Bradley Company. Cam operated relay shift register. 3,435,297, 3-25-69, Cl. 317-139.

Pearson, Arthur D.; Peterson, George E.; and Porto, Sergio P. S., to Bell Telephone Laboratories, Incorporated. Nd and Yb doped borate laser glass. 3,462,707, 8-19-69, Cl. 331-94.5

Pearson, Arthur E., Jr.: *See—*
Ashby, Bruce A.; and Pearson, Arthur E., Jr.,3,486,627.

Pearson, Arthur J., to Owens-Corning Fiberglas Corporation. Film faced fibrous body. 3,441,465, 4-29-69, Cl. 161-84.

Pearson, Arthur Stanley; and Ford, David Julian, to United-Carr Incorporated, mesne. Stud for assembly in an apertured support. 3,476,008, 11-4-69, Cl. 85-5.

Pearson, David L., to Shell Oil Company. Chlorination process. 3,449,421, 6-10-69, Cl. 260-561.

Pearson, David L.: *See—*
Reid, Jon B.; and Pearson, David L.,3,427,352.

Pearson, Earl T., to United States of America, Army. Prism for optical stroboscope. 3,471,236, 10-7-69, Cl. 356-24.

Pearson, Ernest A., to Medical Supply Company, mesne. Tube closing machine. 3,475,786, 11-4-69, Cl. 18-5.

Pearson, Ernest A.: *See—*
Avery, Carl F., Jr.; Pearson, Ernest A.; and Winters, Lloyd V.,3,461,535.

Pearson, Eugene W., to Pacific Press & Shear Corp. Two speed ram type machine. 3,422,727, 1-21-69, Cl. 91-413.

Pearson, Gilbert D.: *See—*
Morgan, Thomas J.; Pearl, Blaine H.; and Pearson, Gilbert D.,3,454,252.

Pearson, Gordon W.: *See—*
Berlinsky, Anthony A.; Varson, Robert J.; Pearson, Gordon W.; and Krebeck, Norman C.,3,484,970.

Pearson, Gustavus B.: *See—*
Reese, Glenn A.; and Pearson, Gustavus B.,3,469,027.
Reese, Glenn A.; and Pearson, Gustavus B.,3,475,553.

Pearson, Guy C. Mobile grave excavator. 3,474,551, 10-28-69, Cl. 37-192.

Pearson, Howard L.: *See—*
Russell, Alvah A., Jr.; and Pearson, Howard L.,3,425,275.

Pearson, Howard; and Busch, Willi A., to American District Telegraph Company. Light modulated intrusion detection system. 3,444,544, 5-13-69, Cl. 340-258.

Pearson, John B.: *See—*
Barry, Adelbert; Chalmers, Franklin L.; and Pearson, John B.,3,480,101.

Pearson, John W., to Minnesota Mining and Manufacturing Company. Surface treating of articles by rotating and reciprocating the treatment container. 3,442,691, 5-6-69, Cl. 117-109.

Pearson, Kenneth A.: *See—*
Lazarchick, Nicholas, Jr.; and Pearson, Kenneth A.,3,473,078.

Pearson, Kenneth White, to Shipowners Refrigerated Cargo Research Association. Flexible couplings for providing fluid communication between two members. 3,473,828, 10-21-69, Cl. 285-9.

Pearson, Martin. Sport vehicle. 3,421,773, 1-14-69, Cl. 280-11.39

Pearson, Melvin A., to Capital Paper Company, mesne. Continuous plastic bag making machine. 3,451,870, 6-24-69, Cl. 156-250.

Pearson, Michael Geoffrey, to Decca Limited. Position indicators for use in mobile craft. 3,422,434, 1-14-69, Cl. 343-112.

Pearson, Paul E., Jr.: *See—*
McBrayer, John S.; Pearson, Paul E., Jr.; and Robinson, Robert W.,3,422,327.

Pearson, Reinhold A. Apparatus for setting up and gluing cartons. 3,421,415, 1-14-69, Cl. 93-36.3

Pearson, Reinhold A. Tag attaching apparatus. 3,439,404, 4-22-69, Cl. 29-208.

Pearson, Robert S., to General Electric Company. Electromagnetic coil structure for dynamoelectric machine stators. 3,452,230, 6-24-69, Cl. 310-180.

Pearson, Ronald K. Coil filter. 3,441,145, 4-29-69, Cl. 210-445.

Pearson, William J., to Loewy Robertson Engineering Company Limited. Coiler or uncoiler for strip material. 3,464,645, 9-2-69, Cl. 242-78.1

Pearson, William J.; and Nippert, Charles R., Sr., to Bethlehem Steel Corporation. Rod bending method and apparatus. 3,429,168, 2-25-69, Cl. 72-296.

Peart, Leland L.: *See—*
Kaveggia, Frederick S.; Rossi, Carl J.; and Peart, Leland L.,3,438,809.

Peart, Leslie T.; and Youngblut, Charles W., to Beckman Instruments, Inc. End of travel indicator variable resistance device. 3,427,546, 2-11-69, Cl. 338-180.

Pease, David H., Jr., to Pease Woodwork Company, Inc. Adapter door frame and door. 3,426,479, 2-11-69, Cl. 49-380.

Pease, Donald L.; and Twist, Henry A., to Xerox Corporation. Electroscopic particle sensor. 3,430,606, 3-4-69, Cl. 118-637.

Pease, William M.: *See—*
Forrester, Jay W.; Pease, William M.; McDonough, James O.; and Susskind, Alfred K.,3,431,478.

Pease Woodwork Company, Inc.: *See—*
Pease, David H., Jr., 3,426,479.

Peasley, Curtiss M. Cord holder and storage device. 3,460,779, 8-12-69, Cl. 242-85.1

Peat, Derek: *See—*
Davies, Henry; Houlgate, Henry J.; Larkby, Geoffrey W. H.; and Peat, Derek,3,458,156.

Peberdy, Roland, to Bentley Engineering Company Limited, The. Circular knitting machines. 3,423,962, 1-28-69, Cl. 66-121.

Pecchioli, Arrgo. Pantograph copy milling machine has a structure counterbalanced for vertical movement. 3,460,433, 8-12-69, Cl. 90-13.1

Pecchioli, Arrigo. Pantograph milling machine having a workpiece supporting table and a template supporting table is provided with connection. 3,426,644, 2-11-69, Cl. 90-13.1

Pecci, Rudolph: *See—*
Dunn, Robert O.; and Pecci, Rudolph,3,486,068.

Pech, Allison E., to FMC Corporation. Method of processing food products in glass containers. 3,473,934, 10-21-69, Cl. 99-214.

Pech, Franz; and Spahn, Peter, to Teves, Alfred Maschinen- und Armaturenfabrik KG. Vacuum-assist power brake. 3,470,697, 10-7-69, Cl. 60-54.6

Pech, Vaclav; Vebr, Jan; and Spura, Richard, to Chepos, Zavody chemickeo a potravinarskeho strojirenstvi oborovy podnik. Vulcanizing presses. 3,477,100, 11-11-69, Cl. 18-17.

Pechacek, Raymond E., to Hahn & Clay. Removable two-way pressure door assembly. 3,435,794, 4-1-69, Cl. 114-16.6

Pechacek, Raymond E., to Hahn & Clay. Pressure vessel closure. 3,478,920, 11-18-69, Cl. 220-55.

Pechacek, Raymond E.; Clay, Eugene J.; and Megow, Lawrence F., to Hahn & Clay. Method of forming pre-stressed laminated heads. 3,423,820, 1-28-69, Cl. 29-447.

Pecherer, Benjamin: *See—*
Brossi, Arnold; and Pecherer, Benjamin,3,457,295.

Pecherer, Benjamin, to Hoffmann-La Roche Inc. Chloromethylation of benzene compounds. 3,465,051, 9-2-69, Cl. 260-646.

Pechiney - Progil: *See—*
Poignant, Pierre; and Crisinel, Pierre, 3,484,230.

Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques: *See—*
Boulanger, Claude; and Pellissier-Tanon, Jerome, 3,455,795.
Cerles, Georges; and Fougeres, Michel, 3,434,174.
Cohen, Joseph; Duhart, Pierre; and Maurel, Pierre, 3,484,196.
Duclaux, Daniel, 3,434,955.
Duclaux, Daniel, 3,480,526.
Logerot, Jean-Marie R., 3,434,319.
Michel, Jean-Marie; and Peyrade, Jean, 3,487,037.
Morel, Paul; Givry, Jean-Pierre; and Scalliet, Robert, 3,421,995.
Perieres,Rene; and de Bard, Yves, 3,421,852.
Podesta, Armando; and Vignati, Carlo, 3,455,275.

Pechini, Maggio P., to Sprague Electric Company. Method of preparing plus 2 valent metal, yttium and rare earth ferrites. 3,438,723, 4-15-69, Cl. 23-22.

Pechmann, Wilhelm, to Strunck, H., & Co., Maschinenfabrik. Process and apparatus for treating ampoules and similar conntainers. 3,421,840, 1-14-69, Cl. 21-80.

Pechmeze, Jacques Pierre Edmond; and Mangeney, Gerard Leon Alphonse, to Etablissements Kuhlmann. Waterproofed organic fibrous products. 3,454,420, 7-8-69, Cl. 117-121.

Pechnikov, Nikolai Alexandrovich: *See—*
Kuznetsov, Viktor Sergeevich; Belyaev, Evgeny Ivanovich; Tereschenko, Tatiana Petrovna; Pechnikov, Nikolai Alexandrovich; Tashilin, Vyacheslav Fedorovich; Koritыssky, Yakov Ilich; and Korney, Igor Vladimirovich,3,438,191.

Pechoucek, Miroslav, to Vyzkumny Ustav Matematickych stroju. Transistor logic oscillator. 3,428,913, 2-18-69, Cl. 331-57.

Pecis, John G.; and Fiorentino, Arthur A., to Speakman Company. Add-on balanced pressure unit. 3,465,776, 9-9-69, Cl. 137-100.

Peck, Adrian J.; and Rabbidge, Ralph M., to Commonwealth Scientific and Industrial Research Organization. Method and means for measuring the free energy of solvents. 3,455,147, 7-15-69, Cl. 73-64.3

Peck, Albert C.; and Israel, Robert D., to Kaiser Aluminum & Chemical Corporation. Predigestion of low silica bauxite. 3,481,705, 12-2-69, Cl. 23-143.

Peck, Bruce E.; and Fujimoto, Calvin, to National Cash Register Company, The. Methods for making magnetic core memory structures. 3,469,310, 9-30-69, Cl. 29-604.

Peck, Carl M., to Gulf Research & Development Company. Method of preparing calcium soap-calcium salt greases. 3,466,245, 9-9-69, Cl. 252-36.

Peck, David W.: *See—*
Fritz, Henry E.; and Peck, David W.,3,426,069.
Peck, Dennis Raymond, to Albright & Wilson (Mfg.) Limited. Preparation of organophosphonic acids. 3,468,935, 9-23-69, Cl. 260-488.
Peck, Donald J., to Etco, Incorporated. Explosive cutter for cables and the like. 3,474,533, 10-28-69, Cl. 30-228.
Peck, Donald W., to United States of America, Army, mesne. Low drift D-C operational amplifier. 3,465,259, 9-2-69, Cl. 330-9.
Peck, Elmer V. Bulb remover device. 3,473,423, 10-21-69, Cl. 81-64.
Peck, Lawrence G.: *See—*
Caudell, Leroy; and Peck, Lawrence G.,3,420,348.
Peck, Maynard W. Arrow actuated clicker for archery bow. 3,443,558, 5-13-69, Cl. 124-24.
Peck, Reese A.: *See—*
Messing, Donald A.; Child, Edward T.; and Peck, Reese A.,3,424,670.
Peck, Richard C.; and Atkins, Elbert W., to United States of America, Commerce. System for determining the type of atmospheric precipitation by detecting meterological parameters. 3,428,890, 2-18-69, Cl. 324-61.
Peck, Robert L., to Textron, Inc. Electroviscous compositions. 3,427,247, 2-11-69, Cl. 252-75.
Peck, Samuel M.; and Nadler, Emanuel. Disposable brush. 3,482,274, 12-9-69, Cl. 15-244.
Peck, William F., to American Optical Company, mesne. Method of making fiber optical structures with hydrostatic pressure. 3,485,609, 12-23-69, Cl. 65-4.
Pecka, James T., to Du Pont de Nemours, E. I., and Company. Process of treating polyimide film in an electric discharge. 3,485,734, 12-23-69, Cl. 204-165.
Pecksen, Otto: *See—*
Madlener, Paul; and Pecksen, Otto,3,434,418.
Madlener, Paul; and Pecksen, Otto,3,440,962.
Peco Machinery Limited: *See—*
Harrison, Peter Franklin, 3,466,700.
Pecora, Michael A., Sr. Bowling trainer. 3,473,804, 10-21-69, Cl. 273-54.
Pecoraro, George A.: *See—*
Emhiser, Donald E.; and Pecoraro, George A.,3,450,516.
Pecoraro, Ralph R.: *See—*
Hopkinson, William C.; and Pecoraro, Ralph R.,3,485,162.
Pecoraro, Raymond P.: *See—*
Bilous, Orest; Meulemans, Darrell R.; Pecoraro, Raymond P.; and Selby, Michael C.,3,473,093.
Castrucci, Paul P.; and Pecoraro, Raymond P.,3,431,472.
Castrucci, Paul P.; Hess, Martin S.; and Pecoraro, Raymond P.,3,473,976.
Langdon, Jack L.; and Pecoraro, Raymond P.,3,429,029.
Pecoraro, Raymond P.; and Bilous, Orest, to International Business Machines Corporation. Single diffused surface transistor and method of making same. 3,445,734, 5-20-69, Cl. 317-235.
Pector, Harold; and Tausheck, Russell W., to American Plate and Window Glass Distributors. Glass transporting rack. 3,424,487, 1-28-69, Cl. 294-67.
Ped Inc.: *See—*
Blossom, James H., 3,472,965.
Pedalino, Alfonza, to Cardiello, Peter L. Coffee percolator. 3,429,255, 2-25-69, Cl. 99-305.
Peddinghaus, Carl Ullrich. Shock absorber with means to prevent foaming. 3,486,590, 12-30-69, Cl. 188-88.
Peddle, Charles I., to General Electric Company. Tape start detector. 3,435,191, 3-25-69, Cl. 235-61.11
Peddle, Charles I., to General Electric Company. Checking circuitry for information handling apparatus. 3,456,238, 7-15-69, Cl. 340-146.1
Pedersen, Aksel, to Aktieselskabet Paasch & Silkeborg Maskinfabrikker. Plant for continuous sterilisation of milk. 3,433,147, 3-18-69, Cl. 99-249.
Pedersen, Carl O.: *See—*
Brown, Marvin L.; and Pedersen, Carl O.,3,450,422.
Pedersen, Fredrik; and Indbryn, Eilif. Incinceration method. 3,461,824, 8-19-69, Cl. 110-7.
Pedersen, Holger: *See—*
Scholin, Harold W.; and Pedersen, Holger,3,467,389.
Pedersen, Jack R.: *See—*
Cawthon, Thomas M.; Schmitt, George J.; Higbee, Allen F.; Pedersen, Jack R.; and Oswald, Hendrikus J.,3,442,975.
Pietrusza, Edward W.; Pedersen, Jack R.; and Piter, Rudolph,3,438,948.
Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R.,3,448,085.
Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R.,3,485,822.
Pedersen, Jakob S.: *See—*
McSherry, Thomas W., 3,467,114.
Pedersen, Jorgen Kaas: *See—*
Andersen, Viggo Kogs; and Pedersen, Jorgen Kaas,3,474,043.
Pedersen, Niels P.: *See—*
Long, James; and Pedersen, Niels P.,3,465,228.
Pedersen, Peder M.: *See—*
McSherry, Thomas W., 3,467,114.
Pederson, Walter H. Endless track attachment for motorized cycles. 3,439,763, 4-22-69, Cl. 180-9.24
Pederson, Walter H. Apparatus for indicating the relative movement of a snowmobile. 3,478,606, 11-18-69, Cl. 74-12.
Pedigo, Roy B.: *See—*
Doolittle, Carl J.; and Pedigo, Roy B.,3,472,092.
Pedjac, Joseph J.: *See—*
Pumpelly, Charles T.; Pedjac, Joseph J.; and Larsen, Eric R.,3,454,658.
Pumpelly, Charles T.; Pedjac, Joseph J.; and Somerville, John S.,3,480,600.
Pedley, Fred. Welding of hollow components. 3,426,171, 2-4-69, Cl. 219-78.
Pedlow, John Watson. Polyurethane foam structure with polyvinylchloride coating. 3,468,771, 9-23-69, Cl. 52-309.
Pedretti, Gaetano. Device for lasting shoe uppers. 3,451,083, 6-24-69, Cl. 12-11.3
Pedroli, Walter E.: *See—*
Copony, Edward L.; Pedroli, Walter E.; and Hermann, Robert,3,434,155.
Pedu, Alexander A. High precision potentiometer and method making the same. 3,477,056, 11-4-69, Cl. 338-135.
Peebles, David Meade. Radiant heat cooking apparatus. 3,477,362, 11-11-69, Cl. 99-441.
Peebles, Davis Meade. Nesting container assembly. 3,463,353, 8-26-69, Cl. 220-97.
Peebles Foods, Inc.: *See—*
Braatz, Douglas R., 3,431,113.
Peebles, Ronald William: *See—*
Miserentino, Charles Orlando; Peebles, Ronald William; and Rockwell, Dean Milton,3,483,053.
Peed, Garland P.: *See—*
Kleiner, Erich J.; and Peed, Garland P.,3,457,955.
Peehs, Martin; and Stehle, Heinz, to Siemens Aktiengesellschaft. Method of producing a multilaminated tube. 3,461,523, 8-19-69, Cl. 29-25.13
Peek, Cecil Herbert; and Peek, Kenneth Rodney. Window and alarm apparatus incorporating same. 3,441,924, 4-29-69, Cl. 340-240.
Peek, Charles R.: *See—*
Webb, James E., Administrator of the National to an invention of,; Peck, Charles R.; and Boodley, Lewis E.,3,422,213.
Peek, Johannes Bernard Heinrich: *See—*
Le Mair, Willem; Peek, Johannes Bernard Heinrich; and Valster, Frederik,3,440,653.
Peek, Kenneth Rodney: *See—*
Peek, Cecil Herbert; and Peek, Kenneth Rodney,3,441,924.
Peek, Robert Lee, Jr., deceased0 (by Crawford, Charles W.; executor), to Northern Electric Company Limited. Damping spring for select bars in crossbar switches. 3,474,205, 10-21-69, Cl. 200-166.
Peek, Sandford C., Jr.: *See—*
Paget, Fredrick W.; and Peek, Sandford C., Jr.,3,457,458.
Peck, Sandford C., to Sylvania Electric Products, Inc. Gas discharge lamp starting circuit with a PISE generator control. 3,463,965, 8-26-69, Cl. 315-272.
Peek, Sandford C., to Sylvania Electric Products, Inc. Control circuit for arc discharge device. 3,466,500, 9-9-69, Cl. 315-100.
Peek, Sandford C., to Sylvania Electric Products, Inc. High voltage arc discharge lamp with low voltage control circuit. 3,479,558, 11-18-69, Cl. 315-98.
Peek, Sanford C., to Sylvania Electric Products, Inc. A.C. control circuit for arc discharge lamps. 3,428,862, 2-18-69, Cl. 315-195.
Peek, William Henderson; and Hoven, Eldon Lee, to Tektronix, Inc. Magnetic signal measuring device including degaussing means. 3,482,163, 12-2-69, Cl. 324-117.
Peek, William H.; and Bateman, Glenn, to Tektronix, Inc. Shielded current measuring device. 3,475,682, 10-28-69, Cl. 324-127.
Peel, Mervyn Evan: *See—*
Jack, David; Ritchie, Alexander Crawford; Peel, Mervyn Evan; and Harper, Norman James,3,458,521.
Peel, William E. Toothbrush dispensing cabinet. 3,472,569, 10-14-69, Cl. 312-206.
Peeler, Robert L.; and Pino, Manuel A. Hydraulic fluids. 3,487,020, 12-30-69, Cl. 252-78.
Peelle Company, The: *See—*
Peelle, Henry E., Jr.; Doeg, Paul R.; and Vaccaro, Angelo M., 3,436,863.
Peelle, Henry E., Jr.; Doeg, Paul R.; and Vaccaro, Angelo M., to Peelle Company, The. Door operating means. 3,436,863, 4-8-69, Cl. 49-362.
Peen Plate, Inc.: *See—*
Cutcliffe, John E., 3,443,985.
Peene, Guido J., to Trefileries Leon Bekaert, PVBA. Method and means for winding of strand material. 3,477,653, 11-11-69, Cl. 242-25.
Peeples, Denny L., to General Motors Corporation. Powered control valve assembly. 3,478,782, 11-18-6, Cl. 137-627.5

Peeps, Donald J., to DeVilbiss Company, The. Dual component spray gun. 3,485,453, 12-23-69, Cl. 239-422.
Peeps, Donald J.; and Owen, Lewis M., to DeVilbiss Company, The. Spray booth. 3,424,129, 1-28-69, Cl. 118-314.
Peerless of America, Incorporated: *See—*
Kritzer, Richar W., 3,431,973.
Kritzer, Richard W., 3,460,613.
Pasternak, Stephen F., 3,433,300.
Pasternak, Stephen F., 3,443,634.
Peerless Photo Products, Inc.: *See—*
Ray, Ford P.; and Slingsby, Thomas W., 3,477,356.
Peerless Plastics, Inc.: *See—*
Copen, Daniel B., 3,430,299.
Peerless Plastics, Incorporated: *See—*
Goldstein, Sam S.; and Copen, Daniel B., 3,454,068.
Peerless Trailer and Truck Service, Inc.: *See—*
Baker, Charles J.; and Van Raden, Frederick F., 3,476,269.
Peerman, Chester A. Water system for high rise buildings. 3,448,759, 6-10-69, Cl. 137-357.
Peerman, Dwight E., to General Mills, Inc. Adhesive properties of amine terminated polyamide resins. 3,444,026, 5-13-69, Cl. 156-331.
Peerman, Dwight E.; and Vertnik, Leonard R., to General Mills, Inc. Polyamide compositions of a polymeric fat acid and a mixture of diamines. 3,483,237, 12-9-69, Cl. 260-404.5
Peery, Walter E., to Eureka-Carlisle Company. Web winding machine. 3,462,093, 8-19-69, Cl. 242-56.2
Peeters, Gustaaf Joannes: *See—*
Deschutterc, Lucien Roger; Scharpe, Ludo Adriaan; Schaltin, Walter Malvine; and Peeters, Gustaaf Joannes,3,469,275.
Peeters, Pierre H.: *See—*
Jongbloed, Johannes; Gardeniers, Jan G.; Nusser, Hubertus W.; and Peeters, Pierre H.,3,469,323.
Peffer, John R.: *See—*
Wismer, Marco; and Peffer, John R.,3,449,272.
Pefine, Dominic L. Vehicle brake apparatus. 3,470,974, 10-7-69, Cl. 180-114.
Pegg, Edward H. R., to Universal Oil Products Company. Collector tube rapper system. 3,447,289, 6-3-69, Cl. 55-300.
Pegg, Samuel, & Son Limited: *See—*
Swindall, John L., 3,468,539.
Walsom, Derek J., 3,479,846.
Pegis, Richard J.: *See—*
Vogl, Thomas P.; and Pegis, Richard J.,3,468,594.
Pegler, John Lionel; and Pepworth, David Peter, to Imperial Smelting Corporation (N.S.C.) Limited. Solvent extraction process for separation of zinc from cadmium. 3,441,372, 4-29-69, Cl. 23-55.
Pegon, Pierre, to Societe Clover. Vacuum pumps. 3,443,743, 5-13-69, Cl. 230-101.
Pegrassi, Lorenzo: *See—*
Bernardi, Luigi; Coda, Severina; Pegrassi, Lorenzo; and Suchowsky, Giselbert Karl,3,427,313.
Peham, Engelbert J. Coolie-type hat. 3,477,066, 11-11-69, Cl. 2-177.
Pei, Hsuen Ping C. Liquid metering and dispensing apparatus. 3,437,241, 4-8-69, Cl. 222-70.
Pei, Yu K., to Owens-Illinois, Inc. Vacuum forming glass articles with vented modules. 3,457,054, 7-22-69, Cl. 65-18.
Pei, Yu K.: *See—*
Keefer, George E.; and Pei, Yu K.,3,445,216.
Peiffert, Jean: *See—*
Millois, Robert; Peiffert, Jean; and Stcherbatcheff, Georges,3,453,515.
Peikert Bau AG: *See—*
Peikert, Jost, 3,457,607.
Peikert, Jost, to Peikert Bau AG. Vibratory mold assembly. 3,457,607, 7-29-69, Cl. 25-41.
Peil, William: *See—*
Hesler, Joseph P.; and Peil, William,3,462,745.
Peinemann, Bodo: *See—*
Reh, Lothar; Maurer, Roland; Pierson, Walter; and Peinemann, Bodo,3,449,062.
Peirce, Goderey Malcolm: *See—*
Gintz, Francis Paul; Matthews, Richard Ohn Strachan; and Peirce, Goderey Malcolm,3,444,152.
Peirce, Thomas H. Flexible mounting for vibratory loads. 3,484,063, 12-16-69, Cl. 248-5.
Peis, Gunter. Device for holding skis. 3,479,044, 11-18-69, Cl. 280-11.13
Peiser, Rudolf: *See—*
Bayati, Abutorab; Peiser, Rudolf; and Schefter, Lothar,3,461,384.
Peissker, Horst: *See—*
Steinhausen, Walter; Jager, Albert; Boroschewski, Gerhard; Peissker, Horst; and Arndt, Horst,3,484,526.
Peissker, Horst; Kutzsche, Armin; and Muftic, Mahmoud, to Schering A.G. 3-Methyl-5-isopropylphenyl esters of N- pyrrolidino and N-morpholino carboxylic acids. 3,457,262, 7-22-69, Cl. 260-247.2
Peist, Rolf, to Bohme Chemie Gesellschaft mit beschrankter Haftung. Process for cleaning vehicles. 3,457,109, 7-22-69, Cl. 134-29.
Peist, Rolf: *See—*
Wedell, Hans; and Peist, Rolf,3,421,940.
Peitl, Josef, to Meyer Products Inc. Lifting and pressure unit for snow plows and the like. 3,432,946, 3-18-69, Cl. 37-42.
Peitl, Josef, to Meyer Products, Inc. Deflector for blown snow over snow plow blades. 3,432,947, 3-18-69, Cl. 37-42.
Pekar, Frank J., Jr.: *See—*
Pelizzoni, Winton J.; Ucko, Bernard; and Pekar, Frank J., Jr.,3,453,995.
Pekarek, Joseph C., to Honeywell Inc. Constant flow fluid diverting valve. 3,455,335, 7-15-69, Cl. 137-627.5
Pekarek, Joseph L.: *See—*
Goodwin, Robert J.; and Pekarek, Joseph L.,3,469,642.
Goodwin, Robert J.; Mori, Ernest A.; Pekarek, Joseph L.; Schaub, Paul W.; and Zinkham, Robert E.,3,467,211.
Muirhead, John F., Jr.; and Pekarek, Joseph L.,3,454,959.
Pekera, Paul; and Young, James L., to GAF Corporation. Copy paper receiving and stacking tray. 3,474,912, 10-28-69, Cl. 211-50.
Pekovsky, Herman Morris. Collating machine. 3,425,682, 2-4-69, Cl. 270-58.
Pelah, Israel; Fraysse, Georges; and Hage, Walter, to European Atomic Energy Community (Euratom). Activity counting device in multichannel arrangement. 3,423,586, 1-21-69, Cl. 250-83.1
Pelavin, Milton H.; Weschler, William A.; and Negersmith, Kent M.; to Technicon Instruments Corporation. Hematology apparatus. 3,427,135, 2-11-69, Cl. 23-253.
Pelczynski, Paul J.; and Thielking, Roger C., to General Electric Company. Color television receiver employing single video amplifier. 3,422,217, 1-14-69, Cl. 178-5.4
Pelenc, Yves: *See—*
Bernard, Georges; and Pelenc, Yves,3,466,541.
Pelenc, Yves, to Merlin Gerin, Societe Anonyme. Linear motor with stationary field structure. 3,482,124, 12-2-69, Cl. 310-12.
Pelger, William M., Sr. Retrieve-marker. 3,420,206, 1-7-69, Cl. 116-124.
Pelick, Nicholas, to Applied Science Laboratories, Inc. Descending thin layer chromatography apparatus. 3,449,083, 6-10-69, Cl. 23-253.
Pelikan, George A.: *See—*
Roselius, Charles F.; Pelikan, George A.; and Maggio, Albert C.,3,472,124.
Pelino, William M., to Railtron Corporation. Hotbox detector system. 3,440,416, 4-22-69, Cl. 246--169
Pelizzoni, Winton J.; Ucko, Bernard; and Pekar, Frank J., Jr., to Mack Trucks, Inc. Piston cooling and lubrication system. 3,453,995, 7-8-69, Cl. 123-196.
Pelka, Horst, to Siemens Aktiengesellschaft. Self-oscillating transistor mixer having two RC members in emitter circuit. 3,462,690, 8-19-69, Cl. 325-440.
Pelka, Horst: *See—*
Winstel, Gunter; Mettler, Klaus; Zschauer, Karl-Heinz; and Pelka, Horst,3,478,215.
Pelka, John Richard: *See—*
Metcalfe, Lincoln Douglas; and Pelka, John Richard,3,473,919.
Pelka, John R.; and Metcalfe, Lincoln Douglas, to Armour Industrial Chemical Company, mesne. Liquid ion exchange separation of iron from copper-iron ore mixtures. 3,449,246, 6-10-69, Cl. 210-38.
Pelkey, Joseph. Combination greeting card and phonograph record. 3,430,761, 3-4-69, Cl. 206-62.
Pell, Melvyn; and Korchak, Ernest Ian, to Halcon International, Inc. Epoxidation using ethylbenzene hydroperoxide with alkli or adsorbent treatment of recycle ethylbenzene. 3,439,001, 4-15-69, Cl. 260-348.5
Pellandine, Peter J. Ladder and method of manufacture thereof. 3,454,130, 7-8-69, Cl. 182-46.
Pellegrini, Carla: *See—*
Pellegrini, Pietro,3,438,353.
Pellegrini, Colomba Quadri: *See—*
Pellegrini, Pietro,3,438,353.
Pellegrini, John P., Jr.; and Strange, Harold O., to Gulf Research & Development Company. 5,10-Dihydrophenarsazine esters. 3,481,958, 12-2-69, Cl. 260-404.
Pellegrini, Jole Lazzaretti: *See—*
Pellegrini, Pietro,3,438,353.
Pellegrini, Pietro, deceased0 (by Pellegrini, Colomba Quadri0Pellegrini, Jole Lazzaretti; and0Pellegrini, Carla; heirs). Candying apparatus for coated confectionery. 3,438,353, 4-15-69, Cl. 118-19.
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez, to Tubas de Acero de Mexico, S.A., and Technit Engineering Company, Inc. Engineering Company, Inc. Method and apparatus for the continuous charging of sponge iron granules into an electric furnace. 3,462,538, 8-19-69, Cl. 13-9.
Pellegrino, Joseph Eugene; and Seratt, Robert H. Fireplace control and heat exchange unit. 3,452,737, 7-1-69, Cl. 126-121.
Pellet, Andre: *See—*
Terra, Pierre Jean; and Pellet, Andre,3,445,562.

Pelletier, Albert Eugene: *See—*
Anghinetti, Joseph Richard; Burden, David Abbott; and Pelletier, Albert Eugene,3,420,021.
Pelletier, Andre Joseph; and Hayward, Garon C., to Mead Corporation, The. Process of producing pigment coated paper. 3,468,698, 9-23-69, Cl. 117-76.
Pelletier, Eugene, 10% to Lee, Raymond, Organization, Inc., The. Incinerator. 3,485,190, 12-23-69, Cl. 110-18.
Pelletier, Floy: *See—*
Pelletier, Paul E.; and Pelletier, Floy,3,474,046.
Pelletier, Paul E.; and Pelletier, Floy,3,474,047.
Pelletier, Paul E.; and Pelletier, Floy, to Wyandotte Chemicals Corporation, mesne. Fire retardant polyurethane composition and process of preparing same. 3,474,046, 10-21-69, Cl. 260-2.5
Pelletier, Paul E.; and Pelletier, Floy, to Wyandotte Chemicals Corporation, mesne. Polyurethane compositions. 3,474,047, 10-21-69, Cl. 260-2.5
Pellett, David L., to Taco, Inc. Instrument adapter. 3,430,917, 3-4-69, Cl. 251-149.6
Pellett, Warren C., Sr. Method of and apparatus for enhancing salmon spawning. 3,464,385, 9-2-69, Cl. 119-3.
Pelli, Pierre, to L'Oreal. Compact. 3,442,414, 5-6-69, Cl. 220-31.
Pelli, Pierre; and Morane, Bruno, to L'Oreal. Package containing stick material. 3,443,874, 5-13-69, Cl. 401-82.
Pellicane, Joseph P., Jr.: *See—*
Harker, Robert I.; and Pellicane, Joseph P., Jr.,3,428,568.
Pellicore, Albert P. Teaching aid. 3,460,272, 8-12-69, Cl. 35-29.
Pellissier-Tanon, Jerome: *See—*
Boulanger, Claude; and Pellissier-Tanon, Jerome,3,455,795.
Pelly, Brian R.: *See—*
Gyugyi, Laszlo; and Pelly, Brian R.,3,470,447.
Peloquin, Leo, to Union Carbide Corporation. Room-temperature bleaching of textiles with peracetic acid. 3,457,023, 7-22-69, Cl. 8-111.
Pelot, Claude, to Solvay & Cie. Apparatus for trimming the neck of hollow plastic articles. 3,429,211, 2-25-69, Cl. 82-46.
Pelouch, James J. Vehicle lift. 3,447,421, 6-3-69, Cl. 91-4.
Pelousek, Herbert: *See—*
Schnegg, Robert; Pelousek, Herbert; Dippelhofer, Robert; Nordt, Herbert; and Dortmann, Heinz-Adolf,3,449,297.
Pelsue, Thurman A. Manhole guardrail. 3,444,793, 5-20-69, Cl. 94-38.
Pelta, Edmond R., to Autoscan, Inc. Capacitive probe. 3,477,024, 11-4-69, Cl. 324-126.
Pelte, Richard: *See—*
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard,3,483,807.
Mayr, Helmut; and Pelte, Richard,3,444,798.
Mayr, Helmut; and Pelte, Richard,3,469,516.
Mayr, Helmut; Pelte, Richard; and Auracher, August,3,425,776.
Pelteson, Frank M., to North American Rockwell Corporation. Drift rate compensation for acceleration sensitivity of an inertial navigation platform. 3,442,140, 5-6-69, Cl. 73-504.
Peltier, William J. Apparatus for controlling conveying systems and the like. 3,484,655, 12-16-69, Cl. 317-137.
Peltola, Veikko K., to Alnor Instrument Company. Magnetically controlled meter movement apparatus. 3,466,542, 9-9-69, Cl. 324-132.
Pelton, Harry L. Hose coupling. 3,428,340, 2-18-69, Cl. 285-95.
Peltz, John Robert; and Stoldt, Clayton L., to Sylvania Electric Products Inc. Intermittent drive mechanism. 3,446,086, 5-27-69, Cl. 74-112.
Peltzer & Fils S.A.: *See—*
Malchair, Armand, 3,422,858.
Malchair, Armand, 3,422,859.
Malchair, Armand, 3,439,714.
Peltzer, Bernd: *See—*
Ehring, Heinz; Peltzer, Bernd; and Kreuder, Hans-Joachim,3,471,425.
Pelvin, Joseph V.; and Ioviero, Frank, to Droutman Manufacturing Company, Inc. Hanger construction. 3,451,601, 6-24-69, Cl. 223-85.
Pelz, David T. Golf club having means of aligning relative to a user. 3,462,155, 8-19-69, Cl. 273-162.
Pelz, Diethart: *See—*
Glander, Fritz; and Pelz, Diethart,3,484,539.
Pelz, Edward C., Jr.; and Guertler, Rudolf W., to International Harvester Company. Double injection system with one nozzle. 3,446,440, 5-27-69, Cl. 239-453.
Pelz, Willibald: *See—*
Danhauser, Justus; and Pelz, Willibald,3,449,294.
Danhauser, Justus; and Pelz, Willibald,3,462,268.
Danhauser, Justus; Gold, Heinrich; Holtschmidt, Hans; and Pelz, Willibald,3,467,630.
Pelzmann, Alfred. Golf tee for importing preselected spin to a ball. 3,473,812, 10-21-69, Cl. 273-207.
Pemberton, Denis: *See—*
Anderson, George de Winter; and Pemberton, Denis,3,463,806.
Holland, Frank Stanley; Marsden, John Henry Edgar; and Pemberton, Denis,3,458,559.
Lambert, Arthur; and Pemberton, Denis,3,446,836.
Pemberton, J. C.: *See—*
Pruett, Kenneth Max, 3,451,428.
Pemberton, Paul E., to Overhead Door Corporation. Roller guide. 3,447,192, 6-3-69, Cl. 16-104.
Pemberton, Paul E.; Loose, Sheldon D.; and Greene, Anthony E., to Overhead Door Corporation. Upwardly acting door structure. 3,457,983, 7-29-69, Cl. 160-235.
Pembor, Mary D. Mannequin with simulated eyelashes formed from imporous braid. 3,455,053, 7-15-69, Cl. 46-165.
Pemco, Inc.: *See—*
Dennison, Clifford A., 3,426,770.
Pena, Pascual J., to Automatic Electric Laboratories, Inc. Piezoelectric signaling device. 3,435,450, 3-25-69, Cl. 340-392.
Pena, Pascual J., to Automatic Electric Laboratories, Inc. Piezoelectric signaling device. 3,445,843, 5-20-69, Cl. 340-392.
Penasse, Lucien: *See—*
Nomine, Gerard; Penasse, Lucien; and Barthelemy, Pierre,3,423,506.
Penaud, Marcel: *See—*
Gay, Michel J. L.; and Penaud, Marcel,3,426,202.
Penco, Sergio: *See—*
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo,3,420,844.
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo,3,420,845.
Pender, David R. Amphibian vehicle. 3,486,477, 12-30-69, Cl. 115-1.
Pendleton,Charles Brian, to MacLean-Fogg Lock Co. Adjustable and self-storing freight tiedown apparatus. 3,438,340, 4-15-69, Cl. 105-369.
Pendleton, John F., to Columbian Carbon Company, mesne. Polymerization catalyst comprising (1) transition metal amide, (2) ZnR or ZnCl and (3) Ziegler catalyst or Ziegler catalyst reducing component. 3,462,403, 8-19-69, Cl. 260-93.7
Pendleton, John M. Apparatus for sealing thermo-plastic films. 3,484,325, 12-16-69, Cl. 156-582.
Pendleton Tool Industries, Inc.: *See—*
Bergquist, Clifford A., 3,438,291.
Over, John A.; and Bergquist, Clifford A., 3,436,992.
Perkins, George D.; Workman, David E.; and Kneier, Joseph W., 3,437,389.
Pendleton, Wesley W.: *See—*
Ostrander, George W.; and Pendleton, Wesley W.,3,425,121.
Pendleton, Wesley W., to Anaconda Wire and Cable Company. High temperature magnet wire. 3,446,660, 5-27-69, Cl. 117-218.
Pendleton, Wesley W.; and Ostrander, George W., to Anaconda Wire and Cable Company. High-temperature magnet wire and apparatus and enamel composition for the insulation thereof. 3,442,702, 5-6-69, Cl. 117-217.
Pendleton, Wesley W.; and Ostrander, George W., to Anaconda Wire and Cable Company. Ceramic filament, electrical apparatus made therewith and method of making same. 3,464,836, 9-2-69, Cl. 106-39.
Pendoley, Frederick M., Jr.; and Thompson, Ransom S., to United Aircraft Corporation. Variable area nozzle synchronous hinge. 3,426,974, 2-11-69, Cl. 239-265.39
Penfold, Alan S., to Litton Industries, Inc. Self-contained thermal and respiratory life support system. 3,463,150, 8-26-69, Cl. 128-142.5
Penfold, Alan S.; and Fonda-Bonardi, Giusto, to Litton Industries, Inc. Containment of a plasma by a rotating magnetic field. 3,442,758, 5-6-69, Cl. 176-1.
Pengelly, Charles P., to Alsco, Inc. Pre-assembled window unit. 3,451,168, 6-24-69, Cl. 49-457.
Pengilly, Brian W., to Goodyear Tire & Rubber Company, The. Method for preparing polyester resins. 3,427,287, 2-11-69, Cl. 260-75.
Penick & Ford, Limited: *See—*
Hjermstad, Erling T., 3,438,913.
Hjermstad, Erling T.; Martin, Larry C.; and Kirby, Kenneth W., 3,462,283.
Penicnak, Adrian J., to Pfizer, Chas., & Co., Inc. Serum cholinesterase test. 3,438,866, 4-15-69, Cl. 195-103.5
Penik, Franc, to Edelstahlwerk Witten Aktiengesellschaft. Austenitic steel suitable for exhaust valves subject to great stresses. 3,431,100, 3-4-69, Cl. 75-125.
Peninsula Research & Development Corporation Limited: *See—*
Speeth, Sheridan D.; and Norem, Philip C., 3,480,912.
Penisten, Robert J.; and Atwater, Bennett L., to Universal Oil Products Company. Hydrocarbon recovery method. 3,425,931, 2-4-69, Cl. 208-101.
Penix, Ermal E.; and Pfeiffer, Harry O., to Goodyear Aerospace Corporation. Electron image correlator tube with improved readout means. 3,476,197, 11-4-69, Cl. 178-6.8
Penix, Nancy Ann: *See—*
Penix, William B., 3,421,990.
Penix, William B., to Penix, Nancy Ann. Sacrificial anode. 3,421,990, 1-14-69, Cl. 204-197.
Penkala, Joseph E.; and Escarfail, Jean-Pierre, to Black Clawson Company, The. Paper machinery. 3,453,137, 7-1-69, Cl. 117-102.

Penkin, Nikolai Ilich: *See—*
Balitsky, Andrei Vasilievich; Penkin, Nikolai Ilich; Filatovsky, Lev Alexeevich; Gavrilov, Nikolai Ivanovich; and Rybchinsky, Rostislav Evgenievich,3,468,561.
Penland, Robert S., to Electronic Sensing Products, Inc. Metal detecting device with inductively coupled coaxial transmitter and receiver coils. 3,471,773, 10-7-69, Cl. 324-3.
Penn Control, Inc.: *See—*
Dietz, Gerald E., 3,457,456.
Penn Controls, Inc.: *See—*
Emmons, Robert E., 3,435,476.
Hayes, Thomas E., 3,475,904.
Lewis, Dwight, Charles, 3,445,632.
Lewis, Dwight Charles, 3,453,063.
Matthews, Russel B., 3,445,174.
Matthews, Russell B., 3,462,233.
Russell, Grover M., 3,435,628.
Penn Corporation: *See—*
Koeln, Harold E., 3,480,370.
Penn Engineering & Manufacturing Corporation: *See—*
Ernest, Richard B.; and Swanstrom, Kenneth A., 3,465,410.
Ernest, Richard B.; and Swanstrom, Kenneth A., 3,465,803.
Penn Engineering and Manufacturing Corporation: *See—*
Ernest, Richard B.; Swanstrom, Kenneth A.; and Davenport, Richard M., 3,452,418.
Penn Fishing Tackle Mfg. Co.: *See—*
Griste, Fredric S., 3,425,644.
Henze, Herbert O., 3,478,979.
Penn, Howard: *See—*
Hull, James W.; and Penn, Howard,3,445,656.
Penn Machinery Company: *See—*
Manning, John Alfred, 3,438,233.
Penn Nuclear Corporation: *See—*
Di Giambattista, Vincent N., 3,434,669.
Penn Plate, Inc.: *See—*
Clayton, Erith T., 3,479,209.
Penn, William D.: *See—*
Baker, Charles E.; and Penn, William D.,3,437,393.
Penn-Western Electric: *See—*
Lesher, John C., 3,480,791.
Pennebaker, Chad W.: *See—*
Murdoch, Colin D.; and Pennebaker, Chad W.,3,458,191.
Penneck, Richard J., to Bakelite Xylonite Limited. Chlorine-containing polymers stabilized with mixtures of metal salts of mono-esters, a polyol and an epoxy compound. 3,448,067, 6-3-69, Cl. 260-23.
Pennekamp, Jan Christiaan: *See—*
Horster, Horst; and Pennekamp, Jan Christiaan,3,458,746.
Horster, Horst; and Pennekamp, Jan Christiaan,3,471,737.
Pennell, Emil, deceased; Pennell, Eileen, administratrix of said- by Pennell, Eileen, administratrix. Remote control device for motor vehicle door locks. 3,427,060, 2-11-69, Cl. 292-336.3
Pennell, John Antony: *See—*
Campbell, William Henry; and Pennell, John Antony,3,467,273.
Pennell, Kit E.; and Soraci, Oreste, to Vendo Company, The. Serrated edge coin separator with magnetic rail. 3,483,958, 12-16-69, Cl. 194-102.
Penner, Siegfried E.; and Malone, Alvis L., III, to Frontier Chemical Company. Production of hexachlorocyclopentadiene. 3,476,792, 11-4-69, Cl. 260-648.
Penney, Albert W., Jr., to United Aircraft Corporation. Electrodeless radio frequency conductivity probe and circuits therefor. 3,444,460, 5-13-69, Cl. 324-40.
Penney, John Harper Malcolm: *See—*
Colwell, Arthur John; Watson, Ian Alexander; and Penney, John Harper Malcolm,3,425,649.
Penney, Lee E. Memorial flowerpot holder. 3,432,136, 3-11-69, Cl. 248-315.
Penney, Norman Withers: *See—*
Bridges, Thomas Fort; Knight, George Raymond, Jr.; and Penney, Norman Withers,3,420,396.
Penniman, Allen D., Jr.: *See—*
Muench, Charles A.; and Penniman, Allen D., Jr.,3,459,455.
Penniman, John G., Jr. Coloring system for leather finishing. 3,424,300, 1-28-69, Cl. 206-47.
Pennings Matheus D., to Engineered Machine Builders Co., Inc. Wire bonding method. 3,444,612, 5-20-69, Cl. 29-471.1
Pennington, Benjamin D.: *See—*
Ginsburgh, Irwin; and Pennington, Benjamin D.,3,472,285.
Pennington, Clifford C. Anti-clog device for air intake on air-cooled gas engines. 3,433,206, 3-18-69, Cl. 123-41.7
Pennington, Davis W. Counterrevolving display mechanism. 3,469,708, 9-30-69, Cl. 211-1.5
Pennington, Keith S.: *See—*
Burckhardt, Christoph B.; and Pennington, Keith S.,3,435,244.
Pennington, Leland L. Guard rails to retain an anchor rope pulley forwardly over a boat stem. 3,439,644, 4-22-69, Cl. 114-210.
Pennington, Louis E.: *See—*
Caruthers, Willim H., Jr.; and Pennington, Louis E.,3,433,384.
Pennington, Norman G.: *See—*
Hartmeister, Ruben J.; and Pennington, Norman G.,3,452,709.
Pennington, Victor E. Hot melt stenciling method and apparatus. 3,435,757, 4-1-69, Cl. 101-124.
Pennino, Charles J.: *See—*
Greco, Nicholas P.; and Pennino, Charles J.,3,444,135.
Pennoyer, Douglas H.: *See—*
McCaffrey, Bernard E.; Moore, Harold R.; and Pennoyer, Douglas H.,3,426,156.
Pennsalt Chemicals Corporation: *See—*
Allen, Thomas Clark; and Koestler, Robert Charles, 3,427,332.
Ashburn, Lennie L., 3,447,951.
Biasi, Edward T.; and Skibiak, John G., 3,431,115.
Black, Matthew B., III, 3,464,964.
Block, Burton Peter; and Dahl, Gerd Helmut, 3,457,195.
Bogaert, Frank John, 3,485,079.
Cushing, Russell Emery, 3,480,031.
Dahl, Gerd Helmut, 3,426,050.
deCsipkes, Victor R., 3,481,156.
Finkelston, Robert J., 3,428,246.
Gardner, David M.; Oesterling, Robert E.; and Tyczkowski, Edward A., 3,441,619.
Gardner, David Milton; and Helitzer, Robert, 3,467,661.
Hager, Robert B., 3,471,518.
Heitman, Joseph B., 3,479,263.
Hoffman, Leonard William; and Guertin, Roland Maurice, 3,450,760.
Huber, Ludwig Konrad; and Mandell, Harry Creston, Jr., 3,431,088.
Huber, Ludwig Konrad, 3,433,799.
Huber, Ludwig Konrad; and Ocone, Luke Ralph, 3,442,612.
Huber, Ludwig Konrad; and Ocone, Luke Ralph, 3,454,361.
Hutchinson, Herman R., 3,436,443.
King, James Ping, 3,432,532.
King, James Ping; and Block, Burton Peter, 3,449,367.
King, James Ping; Saraceno, Anthony Joseph; and Block, Burton Peter, 3,483,143.
Koblitz, Francis Frederick; and Petrella, Robert Gabriel, 3,441,531.
Koblitz, Francis Frederick; and Petrella, Robert Gabriel, 3,470,014.
Kulischenko, Walter, 3,451,540.
Maguire, Keith Dean, 3,444,103.
Mailey, Everett A., 3,428,640.
Mandell, Harry Creston, Jr.; and Roth, Edwin S., 3,432,347.
Mark, Victor, 3,420,900.
Miller, Harold; and Nelson, Russell, 3,466,303.
Nelson, Russell Theodore, 3,480,644.
Popoff, Ivan C.; and Buchholz, Bernard, 3,448,117.
Popoff, Ivan C.; and Whitaker, Reginald Lyon, 3,453,099.
Popoff, Ivan C.; and Dever, James Louis, 3,462,439.
Popoff, Ivan C.; and Loev, Bernard, 3,462,453.
Rose, Selwyn H., 3,440,186.
Saraceno, Anthony Joseph, 3,483,142.
Schaefer, Robert B., 3,472,427.
Schuster, Ludwig K.; and Tongyai, Singkata, 3,421,934.
Schwartz, Norbert C., 3,460,953.
Silverman, Meyer S., 3,472,621.
Singhal, Gopal Hari, 3,439,037.
Smith, Herbert Q., 3,454,390.
Smith, Herbert Q.; and Ivy, Edward Everett, 3,466,374.
Soulen, John Richard; and Schwartz, William Ford, 3,428,695.
Soulen, John Richard; and Schwartz, William Ford, 3,472,904.
Strauss, William, 3,427,639.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim, 3,486,789.
Pennsylvania Engineering Corporation: *See—*
Falk, Martin C., 3,421,640.
Falk, Martin C., 3,435,882.
Falk, Martin C., 3,454,269.
Pennsylvania Fluorocarbon Company, Inc.: *See—*
Aungst, David C.; and Clement, Ira T., 3,445,552.
Clement, Ira T.; and McCaw, Walter J., 3,453,359.
Pennsylvania Industrial Chemical Corporation: *See—*
Barkley, Lloyd B.; and Patellis, Anargiros P., 3,478,007.
Patellis, Anargiros P.; and Nufer, Hans L., 3,466,271.
Pennsylvania Lions Sight Conservation and Eye Research Foundation, Inc.: *See—*
Hargens, Charles W., III; and Field, Richard H., 3,452,589.
Pennsylvania Sewing Research Corporation: *See—*
Glassman, Aaron, 3,479,567.
Pennther, Hermann, to Stahl- und Apparatebau Hans Leffer G.m.b.H. Fluid pressure source with booster. 3,440,967, 4-29-69, Cl. 103-51.
Pennwalt Corporation: *See—*
Albert, Harry Elmer; and Haines, Paul Gordon, 3,487,056.
Bafford, Richard Anthony; and Mageli, Orville Leonard, 3,478,080.
Campbell, George A., 3,475,619.
Humphrey, Dean E., 3,483,991.
MacLeavy, Ronald Edward; and Sheppard, Chester Stephen, 3,474,085.

Nannelli, Piero Luigi; and Block, Burton Peter, 3,487,095.
Schuster, Ludwig K.; and Baldi, Alfonso L., Jr., 3,472,681.
Smith, Herbert Q.; and Miller, Harold J., 3,484,525.
Sudrabin, Leon P., 3,471,394.
Vandegaer, Jan E.; and Meier, Frank G., 3,464,926.

Penny, J. C., Company, Inc.: *See—*
Jay, Aubrey, 3,435,463.

Penote, Vincent S., to Cleveland Trencher Company, The. Support for trench guard rail. 3,445,129, 5-20-69, Cl. 287-51.

Penote, Vincent S.; and Rear, Melvin K., to Cleveland Trencher Company, The. Excavating machine. 3,421,235, 1-14-69, Cl. 37-86.

Penoyer, Ralph F.; and Voegeli, Otto, to International Business Machines Corporation. Magnetic memory employing two thin films. 3,440,626, 4-22-69, Cl. 340-174.

Penque, Nicholas J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,437,935.

Penrod, Allen M.; and Naturale, Anthony, to Maryland Plastics Incorporated. Package, packaging machine and method. 3,466,833, 9-16-69, Cl. 53-23.

Penrod, John K.: *See—*
Yanko, Richard J.; Penrod, John K.; and Jensen, George W.,3,449,540.

Penrod, William R., to Black Clawson Company, The. Web winding apparatus. 3,478,975, 11-18-69, Cl. 242-64.

Pensa, Pietro, to Massey-Ferguson Services N.V. Vehicle transmission and controls therefor. 3,441,114, 4-29-69, Cl. 192-4.

Pensa, Pietro, to Massey-Ferguson Services N.V. Framework for a crawler vehicle. 3,465,839, 9-9-69, Cl. 180-9.54

Pensa, Pietro, to Massey-Ferguson Services N.V. Adjustable boom for material handling equipment. 3,465,904, 9-9-69, Cl. 214-138.

Pensa, Pietro, to Massey-Ferguson Services N.V. Self-propelled vehicle with rotatable superstructure. 3,480,156, 11-25-69, Cl. 212-38.

Pensak, Louis, to RCA Corporation. Testing for the presence of a contaminant in an insulating or semiconducting medium. 3,478,260, 11-11-69, Cl. 324-30.

Pensel, Donald G. Heat miser engine. 3,473,332, 10-21-69, Cl. 60-96.

Penson, Michael: *See—*
Buckingham, Herbert Charles; and Penson, Michael,3,448,241.

Pensotti, Franco. Method of making a composite heat-exchanger tube. 3,467,180, 9-16-69, Cl. 165-180.

Pentapco, Inc.: *See—*
Ludwig, Walter, 3,473,991.

Pentith, Gerald R. O., to Mining Progress Inc., mense. Tunnelling machinc having independently operable cutting head and circular saw. 3,420,577, 1-7-69, Cl. 299-31.

Pentith, Gerald R. O.; and Lockwood, Peter. Mining Progress Inc. Tunnelling machine with rotatable cutter carrying arm for 360° cutting. 3,467,436, 9-16-96, Cl. 299-31.

Penton, Edgar W. Two-piece auxiliary container. 3,482,729, 12-9-69, Cl. 220-23.

Penza, Salvatore J. Underwater power tool. 3,468,385, 9-23-69, Cl. 173-159.

Penzo, Vittorio: *See—*
Caporali, Giorgio; Barberis, Giuseppe; Ferlazzo, Natale; and Penzo, Vittorio,3,462,477.

Peoples, Leo C.; and Beattly, Charles W., to National Distillers and Chemical Corporation. Continuous process for preparing finely divided polymers. 3,432,483, 3-11-69, Cl. 260-87.3

Pepe, Anthony Enrico: *See—*
Lengnick, Guenther Fritz; and Pepe, Anthony Enrico,3,477,973.

Pepe, Frank W., to Arc-Co Incorporated. Fastening device. 3,430,905, 3-4-69, Cl. 248-74.

Pepe, Frank W., to Arc-Co Incorporated. Method of forming conduit clamps. 3,461,708, 8-19-69, Cl. 72-332.

Peper, Jan: *See—*
Himmelbauer, Erich Eduard; and Peper, Jan,3,449,621.

Pepin, Ronald W., to Leeds & Northrup Company, mesne. Supervisory control system. 3,452,329, 6-24-69, Cl. 340-163.

Peplin, Stephen C.: *See—*
Parker, Frank H., 3,472,484.

Pepmeier, Carl R., to FMC Corporation. Heated humidifying apparatus. 3,467,313, 9-16-69, Cl. 239-134.

Pepmeier, Carl R., to FMC Corporation. Film unwinding method and apparatus. 3,467,331, 9-16-69, Cl. 242-55.

Peppard, Donald M.: *See—*
Noe, Joseph T.; Peppard, Donald M.; and McCabe, Bernard J.,3,420,222.

Peppel, Jon H., to Clark Equipment Company. Control valve. 3,473,566, 10-21-69, Cl. 137-596.2

Peppiatt, Harry J.: *See—*
Hall, James A.; and Peppiatt, Harry J.,3,454,895.

Peppin, Richard A.; and Feketc, Stephen I., to Mannix International Inc. Apparatus for removing ballast from beneath a railroad track. 3,436,848, 4-8-69, Cl. 37-104.

Peppler, Richard B.: *See—*
Kelly, Thomas M.; Mielenz, Richard C.; and Peppler, Richard B.,3,432,317.
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A.,3,432,316.
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A.,3,485,649.

Peppler, William S., to Diamond International Corporation. Shrink capping method and apparatus. 3,423,901, 1-28-69, Cl. 53-42.

Peppler, William S., to Diamond International Corporation. Automatic stretch bag machine. 3,479,930, 11-25-69, Cl. 93-8.

Peppler, William S.; Bliss, George N.; and Planck, Norman A., Jr., to Diamond International Corporation. Stick inserter for confection machine. 3,478,703, 11-18-69, Cl. 107-8.

Pepworth, David Peter: *See—*
Monk, Hayden; and Pepworth, David Peter,3,453,078.
Pegler, John Lionel; and Pepworth, David Peter,3,441,372.

Pequignot, Michel J J. Deformable diaphragm. 3,464,322, 9-2-69, Cl. 92-91.

Per, Anita, Limited: *See—*
Pereida, Anita; and Lieberman, Julian, 3,438,547.

Pera, John D.: *See—*
Buckman, John D.; Pera, John D.; and Raths, Fred W.,3,484,473.
Buckman, Stanley J.; Pera, John D.; and Raths, Fred W.,3,463,785.

Perabo, Helmut, to Krebs & Cie. Interconnecting coupling device for electrolysis cells. 3,453,198, 7-1-69, Cl. 204-279.

Peracca, Manlio; and Cicutta, Guerrino, to Nuova San Giorgio S.p.A. Weft pull and release device for weaving looms having no shuttles. 3,441,061, 4-29-69, Cl. 139-122.

Peracchio, Aldo A.: *See—*
Davison, Bartholomew J.; and Peracchio, Aldo A.,3,476,131.

Perameters Company Limited: *See—*
Perrin, Alan P., 3,451,786.

Peras, Lucien, to Regie Nationale des Usines Renault. Apparatus to generate curves by elemental arcs. 3,432,651, 3-11-69, Cl. 235-197.

Peras, Lucien, to Regie Nationale des Usines Renault. Methods and devices for generating a curve. 3,450,865, 6-17-69, Cl. 235-61.7

Perazzoni, Pierluigi: *See—*
Nicita, Domenico; Parmeggiani, Paolo; Perazzoni, Pierluigi; and Giacobone, Piero,3,448,186.

Percarpio, Edward P.; and Bevilacqua, Edward M., to Uniroyal, Inc. Portable rebound or skid resistance tester. 3,482,430, 12-9-69, Cl. 73-12.

Percifield, Edward K.: *See—*
Ford, Charles R.; DeHaven, Oliver S.; and Percifield, Edward K.,3,470,768.

Percival, Albert: *See—*
Newbold, Geoffrey Tattersall; and Percival, Albert,3,472,866.
Newbold, Geoffrey Tattersall; Walden, Saffron; and Percival, Albert,3,430,259.
Newbold, Goffrey Tattersall; and Percival, Albert,3,472,865.

Percival, George, to Gas Council, The. Production of gases containing methane from hydrocarbons. 3,420,642, 1-7-69, Cl. 48-214.

Percival, George, to Gas Council, The. Process for the production of gases containing methane from hydrocarbons. 3,459,520, 8-5-69, Cl. 48-214.

Percival, George; and Phillips, Thomas Rowland, to Gas Council, The. Process for the production of combustible gases. 3,469,957, 9-30-69, Cl. 48-214.

Percival, George; and Yarwood, Thomas Alan, to Gas Council, The. Process for the production of gases containing methane from hydrocarbons. 3,433,609, 3-18-69, Cl. 48-214.

Percival, William Spencer, to Electric & Musical Industries Limited. Function generators. 3,449,557, 6-10-69, Cl. 235-197.

Percival, Worth H., to General Motors Corporation. Heat pump heat rejection system for a closed cycle hot gas engine. 3,477,226, 11-11-69, Cl. 60-24.

Perdu, Bennie G., to General Electric Company. Rotor speed sensing circuit. 3,439,245, 4-15-69, Cl. 318--237

Perdue, Willard F.; and Collins, Howard O., to North American Rockwell Corporation. Method of and apparatus for making tapered spring leaf blanks and the like. 3,441,999, 5-6-69, Cl. 29-173.

Pere, Carlo, to Societa Italiana Impianti-Societa per Azioni. Pneumatic steelmaking plant. 3,434,705, 3-25-69, Cl. 266-13.

Pere, Carlo, to Societa Italiana Impianti-Societa per Azioni. Multiconverters pneumatic steelmaking plant. 3,484,088, 12-16-69, Cl. 266-13.

Pereboom, Alexis J. M.: *See—*
Ummelen, Hendrikus C. M.; and Pereboom, Alexis J. M.,3,437,436.

Perego, Guiseppe. Collapsible frame for a baby carriage. 3,443,823, 5-13-69, Cl. 280-36.

Pereida, Anita; and Lieberman, Julian, to Per, Anita, Limited. Toy water pistol. 3,438,547, 4-15-69, Cl. 222-79.

Perelman, Franklin M. Intrusion vibration detector with ambient noise compensator. 3,487,396, 12-30-69, Cl. 340-261.

Perelman, Melvin; Jones, Reuben G.; and Mizsak, Stephen A., to Lilly, Eli, and Company. Certain 3-hydroxy 1,2,5-thiadiazoles and a process for preparing them. 3,446,813, 5-27-69, Cl. 260-302.

Perelman, Simon Meerovich; Prager, Isaak Aronovich; Tolmachev, Anatoly Filippovich; Klebanov, David Lvovich; and Gastev, Jury Alexandrovich. Radioactive radiation counter tube with improved high temperature properties. 3,444,376, 5-13-6, Cl. 250-83.6
Perenyi, Tibor: *See—*
Wack, Geza; Perenyi, Tibor; Udvardy Nagy, Eva nee Oserei Pehany; and Zsoka, Erzsebet nee Somkuti,3,483,086.
Peres, Robert L., to Associated Octel Company Limited, The, and Octel S.A. Method and apparatus for liquid transfer. 3,465,767, 9-9-69, Cl. 137-2.
Peret, John W.: *See—*
Bennett, John D.; and Peret, John W.,3,420,099.
Perez, Arthur: *See—*
Gondeck, Frederick V.; Hickox, Lester E.; Kennedy, Thomas E.; Perez, Arthur; and Thompson, James F.,3,432,378.
Perez, Arthur; and Myers, James E., to Clark Equipment Company. Refrigerated case. 3,478,535, 11-18-69, Cl. 62-237.
Perez, Carlos. Tamperproof system for vehicles, such as automobiles. 3,453,591, 7-1-69, Cl. 340-64.
Perez, Emilio A.: *See—*
Scarabello, Bruno U.; Perez, Emilio A.; Welty, Lloyd G.; and Sluter, Simon J.,3,428,054.
Perez, Louis N.; and Bult, Eddo A., to Webb, C. J., Inc. Promotional package. 3,424,336, 1-28-69, Cl. 220-42.
Perez, Rafael J.: *See—*
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J.,3,444,105.
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J.,3,467,646.
Perf-A-Roller Company, Inc.: *See—*
Lewis, Kenneth D., 3,431,616.
Perfect Fit Industries Inc.: *See—*
Fisher, Manuel, 3,436,771.
Perfection Automotive Products Corporation: *See—*
Pfeifer, Donald C., 3,428,767.
Perfection Engineering Co., Inc.: *See—*
Gilreath, Lafayette E., 3,430,850.
Perfection Plastics, Inc.: *See—*
Norman, John D., Jr., 3,469,681.
Perga, Martin W.: *See—*
De Graff, Richard R.; and Perga, Martin W.,3,445,381.
De Graff, Richard R.; and Perga, Martin W.,3,466,344.
De Graff, Richard R.; and Perga, Martin W.,3,466,345.
De Graff, Richard R.; and Perga, Martin W.,3,466,346.
Perger, Siegfried: *See—*
Schwartz, Hermann, 3,421,007.
Peri, Benjamin. drilling rig and craft. 3,456,745, 7-22-69, Cl. 175-5.
Peri, John B., to Standard Oil Company (Indiana). Self-sustaining, thin, crack-free sheet of inorganic aerogel. 3,434,912, 3-25-69, Cl. 161-46.
Perie, Daniel: *See—*
Maria, Alain; Patigny, Pierre; and Perie, Daniel,3,450,639.
Perie, Michele: *See—*
Chemla, Marius; Dirian, Gregoire; and Perie, Michele,3,447,898.
Perieres,Rene; and de Bard, Yves, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Process for treatment of aluminous ores for production of purified aluminum oxide. 3,421,852, 1-14-69, Cl. 23-142.
Perilhou, Jean: *See—*
Auphan Michel; and Perilhou, Jean,3,446,073.
Perilstein, Warren L., to Ethyl Corporation. Gasoline compositions. 3,449,095, 6-10-69, Cl. 44-63.
Perilstein, Warren L., to Ethyl Corporation. Gasoline anti-icing. 3,485,602, 12-23-69, Cl. 44-63.
Perin, Oliver W., Jr. Drilling and tapping aid in the form of an apertured card having a reflection and magnetic face. 3,436,155, 4-1-69, Cl. 356-138.
Perin Products Corporation: *See—*
Halperin, Edward B., 3,469,336.
Perina, Joseph, to American Velcro, Inc. Fastening apparatus. 3,461,511, 8-19-69, Cl. 24-31.
Pering, Richard D., to Hewlett-Packard Company. Signal frequency converter having a cavity filter and mixer. 3,436,658, 4-1-69, Cl. 324-79.
Perini, Anthony R. Rack conveying system. 3,426,912, 2-11-69, Cl. 211-121.
Perini, Harry R.; Stangel, John J.; Timms, Robert J.; and D'Agostino, Jack V., to United States of America, Air Force. Antenna array feed system having dielectric phase compensators to adjust for phase lag differences. 3,453,636, 7-1-69, Cl. 343-853.
Perini, Mario: *See—*
Fusco, Raffaello; Losco, Giuseppe; and Perini, Mario,3,462,519.
Peripheral Data Machines, Inc.: *See—*
Payne, Errol G., 3,460,276.
Perkel, Harold: *See—*
Gill, William Lee; and Perkel, Harold,3,427,453.
Perkel, Robert J. Apparatus for coating articles. 3,442,251, 5-6-69, Cl. 118-9.
Perkett, Charles E.: *See—*
Gray, Martin B.; de Haas, Thijs; and Perkett, Charles E.,3,445,593.
Perkin-Elmer Corporation: *See—*
Dumartin, Serge; Oksengorn, Boris; Tobin, Marvin; and Vodar, Boris, 3,469,920.
Ralston, Wilson P., 3,470,355.
Perkin-Elmer Corporation, The: *See—*
Atwood, John G.; and Kerr, Edwin L., 3,433,959.
Auerbach, David R., 3,449,042.
Bastien, Roy C.; and Scheuerman, Richard J., 3,463,574.
Cowles, Charles Donald, 3,434,639.
De Mey, Charles F., II., 3,451,744.
Gaumer, Marvin W., 3,469,438.
Hansen, Donald H., 3,442,567.
Hill, Harold I., 3,443,904.
Hoogland, Jan, 3,486,810.
Kabot, Frank J., 3,470,676.
Kahn, Herbert L.; and Chedester, Charles J., 3,482,115.
Kreuzer, Justin L., 3,476,463.
Linares, Robert C., 3,486,937.
Lipsett, Morley S.; and Lee, Paul H., 3,457,415.
Marshall, Hamilton W., Jr.; and Helms, Charles C., 3,454,339.
Moeller, Guido K., 3,464,028.
Munro, Donald Frank, 3,442,139.
Preston, Kendall, Jr., 3,457,425.
Preston, Kendall, Jr., 3,463,572.
Preston, Kendall, Jr., 3,479,109.
Preston, Kendall, Jr., 3,480,348.
Redmond, Melvin W., Jr., 3,422,603.
Richmond, Robert S., 3,468,635.
Scott, Larkin B.; and Keats, George H., 3,467,865.
Sebens, Carl R.; and Vollmer, John W., 3,422,301.
Simon, Wilhelm, 3,449,942.
Simon, Wilhelm, 3,453,866.
Staunton, John J. J., 3,461,055.
Venghiattis, Alexis A., 3,432,655.
Venghiattis, Alexis A., 3,486,836.
Vollmer, John H., 3,482,138.
Vollmer, John W., 3,474,280.
Vollmer, John W., 3,487,254.
Vyce, Joseph Richard, 3,427,108.
Perkin-Elmer Limited: *See—*
Keulemans, Aloysius I. M., 3,475,131.
Parker, Leslie Kearton; and Leane, John Bryant, 3,423,670.
Perkins, Alfred R. Pump for clearing an oil passage. 3,447,548, 6-3-69, Cl. 134-169.
Perkins, Beauregard, Jr., to United States of America, Army. Centering mechanism. 3,449,943, 6-17-69, Cl. 73-71.
Perkins, Bernard C., 1/6 to Bowen, F. D. 1/6 to Bowen, Gilbert 1/6 to Lawless, Winston F. 1/6 to Winger Enterprises, Inc. Atmospheric heating system. 3,421,494, 1-14-69, Cl. 126-59.5
Perkins, Charles H., to Robertshaw Controls Company. Fluid control system. 3,467,123, 9-16-69, Cl. 137-81.5
Perkins, Charles H.; and Kreuter, Kenneth G., to Robertshaw Controls Company. Pneumatic control system and parts therefor or the like. 3,458,269, 7-29-69, Cl. 431-58.
Perkins, Charles M., to Eaton Yale & Towne, Inc. Twin countershaft construction with all main gears mounted concentrically on main shaft. 3,425,290, 2-4-69, Cl. 74-331.
Perkins, Chester W., to Central Transformer Corporation. Voltage tap changing apparatus. 3,421,073, 1-7-69, Cl. 323-43.5
Perkins, David J. Archery bow sight. 3,455,027, 7-15-69, Cl. 33-46.
Perkins, Denis Gordon, to Electric & Musical Industries Limited. Colour television camera layout. 3,471,637, 10-7-69, Cl. 178-5.4
Perkins, Donald W., to General Electric Company. Magnetic deflection system for cathode ray tubes. 3,426,241, 2-4-69, Cl. 315-27.
Perkins, Edgar L., to Sperry Rand Corporation. Electrical connector. 3,445,804, 5-20-69, Cl. 339-62.
Perkins Engines Limited: *See—*
Sparrow, Alan Wycliffe; and Kane, James Anthony, 3,481,318.
Spiers, John; and Panikkar, Mathoor S. R., 3,456,627.
Perkins, Enoch, Jr.: *See—*
Robinson, Melville W., Jr.; Steelman, Clarence, Jr.; and Perkins, Enoch, Jr.,3,445,284.
Perkins, Frank A., Jr., to Radiation Incorporated. Level shift correction circuits. 3,473,131, 10-14-69, Cl. 328-163.
Perkins, Frederick G.: *See—*
Perkins, Frederick G.; and Minick, Carl Edward, 3,441,829.
Perkins, Frederick G.; and Minick, Carl Edward, to Perkins, Frederick G. Emergency stand-by electric service apparatus. 3,441,829, 4-29-69, Cl. 320-40.
Perkins, George D.; Workman, David E.; and Kneier, Joseph W., to Pendleton Tool Industries, Inc. Container for fishing tackle or the like. 3,437,389, 4-8-69, Cl. 312-202.
Perkins, George R.: *See—*
Irving, Edgar W., Jr.; and Perkins, George R.,3,461,016.
Perkins, George W.: *See—*
Boodman, Norman S.; Perkins, George W.; and Walter, Jack W.,3,441,497.

Perkins, Glenn H., to Oxford Paper Company. Planographic printing plates. 3,455,241, 7-15-69, Cl. 101-453.
Perkins, Gordon O.; and Swanson, Howard E., to G & W Electric Specialty Company. Switch and contact arrangement. 3,478,185, 11-11-69, Cl. 200-166.
Perkins, Gordon O.; and Swanson, Howard E., to G & W Electric Specialty Company. Switch for electrical distribution system and equipment. 3,484,570, 12-16-69, Cl. 200-48.
Perkins, Guy E.: *See—*
Dudzik, Chester J.; and Perkins, Guy E.,3,430,432.
Shippee, Fred Boswell; and Perkins, Guy Emmanuel,3,425,208.
Perkins, James T., Jr.: *See—*
Brazell, James W.; Perkins, James T., Jr.; and White, Edwin L.,3,433,366.
Perkins, Joe. Fishing line accessory. 3,460,285, 8-12-69, Cl. 43-44.9
Perkins, John J.; and Carlson, Robert S., to American Sterilizer Company. Apparatus for entering a sealed enclosure. 3,439,966, 4-22-69, Cl. 312-1.
Perkins, John R. Scroll-scanning device. 3,461,582, 8-19-69, Cl. 40-31.
Perkins, Noel E. Antenna mounts. 3,464,658, 9-2-69, Cl. 248-43.
Perkins, Paul E.; Perkins, Warren E.; Thomas, David E.; and Taylor, James W., to National Cash Register Company, The. Spacecraft teleprinter using thermal printing techniques. 3,476,877, 11-4-69, Cl. 178-23.
Perkins, Robert L.; Thorndyke, Lloyd M.; and Sullivan, Daniel C., to Control Data Corporation. Disc file and actuator therefor. 3,484,760, 12-16-69, Cl. 340-174.1
Perkins, Warren E.: *See—*
Perkins, Paul E.; Perkins, Warren E.; Thomas, David E.; and Taylor, James W.,3,476,877.
Perkins, William H., to Diamond International Corporation. Collapsible carton and blank. 3,434,647, 3-25-69, Cl. 229-16.
Perkins, William H.; and Klotz, Robert E., to Litton Precision Products, Inc. Piezoelectric bimorph driven tuners for electron discharge devices. 3,478,246, 11-11-69, Cl. 315-39.55
Perkinson, Leon R.: *See—*
Moore, Francis C.; and Perkinson, Leon R.,3,441,383.
Moore, Francis C.; and Perkinson, Leon R.,3,458,867.
Moore, Frank C.; and Perkinson, Leon R.,3,442,034.
Perkinson, Robert E.; and Borrok, Martin J., to McDonnell Douglas Corporation. Asynchronous collision avoidance system. 3,456,256, 7-15-69, Cl. 343-6.5
Perkinson, William B.: *See—*
Hoyler, Robert C.; Koscinski, Anthony; and Perkinson, William B.,3,428,754.
Perkov, Jury Rodionovich: *See—*
Ruppeneit, Konstantin Vladimirovich; Prigozhin, Evgeny Semenovich; and Perkov, Jury Rodionovich,3,466,926.
Perkowski, Thomas E. Method of making orthodontic appliances. 3,439,421, 4-22-69, Cl. 32-14.
Perl, Alexander I., to Foster Wheeler Corporation. Pressure vessel for hydrogen. 3,474,344, 10-21-69, Cl. 220-3.
Perl, Richard L., to Tappan Company, The. Garage door operator. 3,439,727, 4-22-69, Cl. 160-188.
Perl, Richard L., to Tappan Company, The. Door latch mechanism. 3,450,851, 6-17-69, Cl. 200-61.68
Perlaky, Leopold, to Hygrodynamics, Inc. Fluid hygrometric sampling device. 3,477,279, 11-11-69, Cl. 73-61.1
Perlberg, S Everett: *See—*
Scanor, Rex C.; and Perlberg, S Everett,3,447,201.
Scanor, Rex C.; and Perlberg, S Everett,3,448,967.
Perlberg, William: *See—*
Gerstein, Terry; Perlberg, William; and Schwarz, Milton H.,3,485,915.
Perle, Percy: *See—*
Smith, Addison M.; and Perle, Percy,3,447,933.
Perles, David R. Safety cutting instrument for pedicure. 3,430,340, 3-4-69, Cl. 30-28.
Perlick, Albert; and Gareis, Alfred, to Vereinigte Deutsche Metallwerke AG. Process of producing sheet metal structures. 3,432,903, 3-18-69, Cl. 29-157.3
Perlman, David, to Squibb, E. R., & Sons, Inc. Enzymic polypeptide degradation. 3,463,705, 8-26-69, Cl. 195-80.
Perlman, Martin Melvin; and Reedyk, Cornelis Wilfred, to Northern Electric Company Limited. Polycarbonate electrets. 3,458,713, 7-29-69, Cl. 307-88.
Perlman, Morris. Semiautomatic wire-fed dual top stop production and securement machine for slide fasteners. 3,445,912, 5-27-69, Cl. 29-207.5
Perlman, Sol J., to Vac Pac Manufacturing Company, Inc. Bag bottom. 3,478,952, 11-18-69, Cl. 229-57.
Perlman, Stuart S.; and Silver, Robert S., to RCA Corporation. Ferroelectric insulated gate field effect device. 3,450,966, 6-17-69, Cl. 317-235.
Perlman, Theodore H.: *See—*
Krolik, Paul P.; and Perlman, Theodore H.,3,432,148.
Perlmutter, Adolf A.: *See—*
De La Cierva, Juan; Perlmutter, Adolf A.; and Fraser, David B.,3,427,504.
Perlmutter, Jerome: *See—*
Shapiro, Mordecai; and Perlmutter, Jerome,3,463,041.
Perlmutter, Shmuel; and Bloch, Moshe Rudolf. Granulated potassium chloride fertilizer. 3,466,161, 9-9-69, Cl. 71-33.
Perma-Power Company: *See—*
Goldstein, Richard, 3,427,521.
Permadlux Company, The: *See—*
Barth, Julius O., 3,479,198.
Permaglass, Inc.: *See—*
McMaster, Harold A.; and Nitschke, Norman C., 3,423,198.
McMaster, Harold A.; and McMaster, Ronald A., 3,455,669.
McMaster, Harold A., 3,455,671.
McMaster, Harold A.; Nitschke, Norman C.; and Kawecka, John J., 3,468,645.
McMaster, Harold A., 3,475,588.
McMaster, Harold A., 3,485,612.
McMaster, Ronald A., 3,455,670.
Nitschke, Norman C., 3,485,616.
Permalac Corporation, The: *See—*
White, Marion M., 3,474,054.
Permanent Pipe Products Co.: *See—*
Williams, James W.; and Proctor, Phillip K., 3,477,745.
Permawick Company, Inc.: *See—*
Abel, Martin L., 3,434,765.
Abel, Martin L., 3,466,244.
Permutit Company Limited, The: *See—*
Nolan, John Devereaux, 3,446,767.
Perner, Friedrich, to Siegener Maschinenbau, G.m.b.H. Roller straightening machine with axially adjustable straightening roller shafts. 3,457,755, 7-29-69, Cl. 72-164.
Pernet, Emile. Circuit breaker for vehicle ignition system. 3,466,409, 9-9-69, Cl. 200-61.45
Pernice, Russell. Detachable hook bar for vehicles. 3,428,282, 2-18-69, Cl. 248-201.
Pero, John P., III: *See—*
England, Wilbur B.; Pero, John P., III; Siciliano, Gasparo P.; and Takata, Victor T.,3,468,226.
Perolin Company, Inc., The: *See—*
Strenkert, Lynn A.; and Carls, William H., 3,436,263.
Perona, Giovanni; and Volta, Giuseppe, to Centro Informazioni Studi Esperienze s.r.l. (C.I.S.E.), and European Atomic Energy Community (Euratom). Method of welding sintered aluminum powder. 3,478,412, 11-18-69, Cl. 29-472.9
Peroni, Peter A.; and Jones, John Paul, Jr. Universal modular printed circuit magnetic reed keyboard switch assembly. 3,462,719, 8-19-69, Cl. 335-206.
Peronneau, Georges: *See—*
Floret Felix; Mikailoff, Serge; and Peronneau, Georges,3,466,608.
Mikailoff, Serge; Peronneau, Georges; and Floret, Felix,3,466,614.
Peropoulos, Peter C.: *See—*
Doyle, William P.; Patterson, John A.; and Peropoulos, Peter C.,3,470,252.
Siegart, William R.; Peropoulos, Peter C.; Jones, Ronald E.; and Smolin, William,3,470,251.
Perotto, Pier Giorgio; and De Sandre, Giovanni, to Ing. C., Olivetti, & C., S.p.A. Electronic computer. 3,469,244, 9-23-69, Cl. 340-172.5
Perotto, Pier Giorgio; and Ecclesia, Edoardo, to Ing. C., Olivetti, & C., S.p.A. Modular electronic circuit assembly with improved subcomponent packaging assemblies. 3,478,251, 11-11-69, Cl. 317-101.
Peroutky, Donald C.: *See—*
Hughes, William C.; and Peroutky, Donald C.,3,436,584.
Perra, Frank M., to Halliburton Company. Dynamic impedance analyzer including magnitude and phase displaying means. 3,479,586, 11-18-69, Cl. 324-57.
Perras, Philippe: *See—*
Chichery, Guy; and Perras, Philippe,3,448,118.
Chichery, Guy; and Perras, Philippe,3,481,938.
Perrault, Marcel, to Laboratoires Laroche Navarron. Medicament based on a salt of pyridoxamine. 3,426,131, 2-4-69, Cl. 424-263.
Perrault, Wilbur M. Wall construction for a building. 3,470,665, 10-7-69, Cl. 52-278.
Perreault, Aime Joseph, to Haveg Industries, Inc., mesne. Decolorization of color-coded perfluorocarbon polymers. 3,440,235, 4-22-69, Cl. 260-92.1
Perreault, Donald A., to Xerox Corporation. FSK transmitter with transmission of the same number of cycles of each carrier frequency. 3,454,718, 7-8-69, Cl. 178-66.
Perreault, Donald A., to Xerox Corporation. Mechanical jitter equalizer. 3,461,227, 8-12-69, Cl. 178-6.
Perreault, George E., to Bell Telephone Laboratories, Incorporated. Relay having improved construction. 3,436,698, 4-1-69, Cl. 335-154.
Perreault, George E., to Bell Telephone Laboratories, Incorporated. Reed relay mounting and connector. 3,439,302, 4-15-69, Cl. 335-154.

Perreault, Serge: *See—*
Venne, Claude; Forest, Robert; and Perreault, Serge,3,478,611.
Perrella, Guido, to Dynacast Limited. Zipper chain machine. 3,482,301, 12-9-69, Cl. 29-207.5
Perren, Benno, to Hectronic AG. Liquid detector. 3,428,074, 2-18-69, Cl. 137-312.
Perren, Benno, to Hectronic AG. Apparatus for separating fluid earth-oil products from an earth-oil-in-water mixture. 3,469,702, 9-30-69, Cl. 210-265.
Perren, Benno, to Hectronic AG. Automatic safety device for tanks. 3,485,262, 12-23-69, Cl. 137-386.
Perri, John A.: *See—*
Harding, William E.; Perri, John A.; Riseman, Jacob; and Ruder, Winfield S.,3,449,049.
Perrier, Marius Antoine, to Martin, J. B.,-Velours Peluches, Soieries-S.A. Tubular seamless warp-knitted stocking. 3,429,147, 2-25-69, Cl. 66-195.
Perrier, Marius Antoine, to Manufactures Jean-Baptiste Martin, Jean Martin, Andre Charbin & Cie. Tubular warp-knit stockings having a mock seam. 3,434,310, 3-25-69, Cl. 66-181.
Perrin, Alan P., to Perameters Company Limited. Device for mixing and dispensing ingredients. 3,451,786, 6-24-69, Cl. 23-285.
Perrin, Donald E.; and Wakefield, Gayle S. Lace wind. 3,430,303, 3-4-69, Cl. 24-117.
Perrin, Hugh. Kite board. 3,455,261, 7-15-69, Cl. 114-39.
Perrin, William P.; and Gentle, Joe, to Texas Instruments, Incorporated. Protective element for hermetically enclosed semiconductor devices. 3,487,275, 12-30-69, Cl. 317-234.
Perrine, James J. Isokinetic exercise process and apparatus. 3,465,592, 9-9-69, Cl. 73-379.
Perrine, Ralph J.; and Mathews, Frank Robert, to Electric Furnace Company, The. Furnace heating control. 3,447,745, 6-3-69, Cl. 236-15.
Perrine, William: *See—*
Hugle, Frances; and Perrine, William,3,465,874.
Perrinjaquet, Roger Paul. Race track. 3,480,210, 11-25-69, Cl. 238-10.
Perrino, Albert C.; and Israel, Michael G., to I. C. I./Organics/Inc.β,βThio diethyl sulfones. 3,479,408, 11-18-69, Cl. 260-609.
Perrino, Frank A., to Singer Company, The, mesne. Anti-skid device valves. 3,459,204, 8-5-69, Cl. 137-38.
Perrino, Frank A., to Singer Company, The, mesne. Acceleration responsive devices for anti-skid units. 3,477,765, 11-11-69, Cl. 303-21.
Perrins, Lyle Eugene; Dawson, Fred; and White, Henry George, to Imperial Chemical Industries Limited. Incorporation of a solid additive into a polymer in an aqueous system. 3,468,828, 9-23-69, Cl. 260-23.7
Perron, Paul P., Jr.: *See—*
Edwards, Roger; and Perron, Paul P., Jr.,3,464,868.
Perron, Peter J.: *See—*
Folsom, Allan G.; and Perron, Peter J.,3,463,687.
Perron, Yvon G.: *See—*
Cheney, Lee C.; and Perron, Yvon G.,3,454,556.
Perron, Yvon G.; and Kavadias, Gerry, to Bristol-Myers Company, mesne. Substituted 1,2,3,4-tetrahydroquinolines. 3,452,026, 6-24-69, Cl. 260-288.
Perrone, James V. Time delay system. 3,452,579, 7-1-69, Cl. 72-351.
Perrone, Rosario J.: *See—*
Bunish, Steve; and Perrone, Rosario J.,3,487,149.
Perrone, Rosario J.; and Jore, Olav E., to Anaconda Wire and Cable Company. Electric power cable. 3,448,204, 6-3-69, Cl. 174-115.
Perrotti, Emmanuel J.: *See—*
Felsenheld, Robert A.; Hoffman, Murray; and Perrotti, Emmanuel J.,3,471,808.
Perruca, Felix. Frictional slip coupling with thermostatic alarm. 3,425,528, 2-4-69, Cl. 192-70.27
Perry, Barbour L.: *See—*
Birmingham, Henry Patrick; Perry, Barbour L.; and Baldwin, Alan W.,3,447,128.
Birmingham, Henry P.; Perry, Barbour Lee; and Baldwin, Alan W.,3,447,129.
Perry, Charles C., to Chace, W. M., Company. Thermostatic bimetal strip. 3,453,888, 7-8-69, Cl. 73-363.5
Perry, Charles C., to Chace, W. M., Company. Thermostatic switching device and overheat control system incorporating same. 3,483,360, 12-9-69, Cl. 219-512.
Perry, Charles K.; and Perry, Looney F., Jr. Portable concrete batcher apparatus. 3,448,866, 6-10-69, Cl. 214-2.
Perry, Charles R., to Sivalls Tanks, Inc. Emulsion treater. 3,422,028, 1-14-69, Cl. 252-362.
Perry, Dan E.: *See—*
Robinson, Leroy E.; and Perry, Dan E.,3,424,358.
Perry, Darwin L.: *See—*
Herriott, Donald R.; Perry, Darwin L.; and Wimperis, Jeffery R.,3,466,120.
Perry, Donald S.: *See—*
Carroll, Michael W.; and Perry, Donald S.,3,445,145.
Perry, Edmond S., to Eastman Kodak Company. Method for producing and processing viscous materials such as polymers. 3,425,993, 2-4-69, Cl. 260-75.
Perry, Edward D.; and Hart, Wayne C., to Dyna Structures. Structural frames and methods and means therefor. 3,429,092, 2-25-69, Cl. 52-648.
Perry, Edward Gordon, Jr., to Recognition Equipment Incorporated. Retina character reader. 3,432,646, 3-11-69, Cl. 235-61.11
Perry, Edward H., to American Gas Association, Inc. Self-cleaning gas oven system and gas burner means therefor. 3,437,085, 4-8-69, Cl. 126-21.
Perry, Eli, to Monsanto Company. Process for treating nylon products. 3,454,351, 7-8-69, Cl. 8-115.5
Perry, Elijah R., to Allis-Chalmers Manufacturing Company. Underground residential distribution system for electric power. 3,457,428, 7-22-69, Cl. 307-17.
Perry, Elijah R.; and Frey, Albert M., to Allis-Chalmers Manufacturing Company. Post type modular insulator containing optical and electrical components. 3,485,940, 12-23-69, Cl. 174-139.
Perry, Ernest J.; and Reynolds, Delbert D., to Eastman Kodak Company. Photographic emulsions. 3,425,836, 2-4-69, Cl. 96-113.
Perry, Frank J.: *See—*
Handley, Harold E.; Handley, Robert D.; and Perry, Frank J.,3,457,664.
Perry, Frederick G., to Texas Instruments, Incorporated. Snap-acting thermostatic electric switch. 3,452,313, 6-24-69, Cl. 337-86.
Perry, Frederick J., deceased; and0 (by Perry, Mamie; executrix). BX cable cutter. 3,453,917, 7-8-69, Cl. 83-454.
Perry, George W.: *See—*
Diamond, William E.; and Perry, George W.,3,433,024.
Perry, Gerald Horace: *See—*
Ball, Robert George; Perry, Gerald Horace; and Wood, John,3,431,433.
Perry, Glenn: *See—*
Miller, Alfred H.; Perry, Glenn; and Wheat, Lawrence C.,3,421,180.
Perry, James G. Anchor for tiltable sash balancer. 3,441,978, 5-6-69, Cl. 16-197.
Perry, John, Jr., to United States of America, Army. Method of making fuel cell electrode and fuel cell incorporating the electrode. 3,464,862, 9-2-69, Cl. 136-86.
Perry, John T., to Picker Corporation, mesne. X-ray generator with emission control arrangement within the focusing cup. 3,433,955, 3-18-69, Cl. 250-90.
Perry, Kenneth Edward Gordon, to United Kingdom Atomic Energy Authority. Readout control for thermoluminescent dosimetry. 3,487,209, 12-30-69, Cl. 250-71.5
Perry, Kenneth E., to EG & G International, Inc., mesne. Power, synchronizing and timing waveform generator and apparatus. 3,439,338, 4-15-69, Cl. 340-147.
Perry, Kenneth E., to Winfield Brooks Company, Inc. Silver cleaning composition. 3,468,804, 9-23-69, Cl. 252-143.
Perry Laboratories, Inc.: *See—*
Taylor, William R., 3,463,947.
Perry, Looney F., Jr.: *See—*
Perry, Charles K.; and Perry, Looney F., Jr.,3,448,866.
Perry, Malcolm R.: *See—*
Prindell, Stuart M., Jr.; Perry, Malcolm R.; Martin, Vincent W.; and Fritsch, Daniel F.,3,479,815.
Perry, Mamie: *See—*
Perry, Frederick J.,3,453,917.
Perry, Michael: *See—*
Budds, Lee F.; and Perry, Michael,3,475,587.
Perry, Milton A.: *See—*
Duke, Roy B., Jr.; and Perry, Milton A.,3,442,931.
Duke, Roy B., Jr.; and Perry, Milton A.,3,455,988.
Duke, Roy B., Jr.; and Perry, Milton A.,3,468,927.
Perry, Philip David: *See—*
Langrish, John; and Perry, Philip David,3,429,837.
Perry, R. & Company Limited: *See—*
Tyrer, Charles R., 3,445,869.
Perry, Reginald H. B., to Gardiner Sons & Company Limited. Liquid level control device. 3,472,273, 10-14-69, Cl. 137-389.
Perry, Robert C.: *See—*
Achterling, Harold J.; Prosa, Aldo C.; Spencer, Donald J.; and Perry, Robert C.,3,441,124.
Perry, Roger Leslie, to Gillette Company, The. Blade length indicator. 3,484,939, 12-23-69, Cl. 30-40.1
Perry, Samuel J., to Modern Maid, Inc. Self-cleaning oven. 3,422,809, 1-21-69, Cl. 126-21.
Perry, Thomas R., to Texas Instruments, Incorporated. Insulation structure for crossover leads in integrated circuitry. 3,436,611, 4-1-69, Cl. 317-234.
Perry, Walter Merton. Method and apparatus for conveying and for treating glass fibers. 3,442,633, 5-6-69, Cl. 65-3.
Perry, William D., to Weyerhauser Company. Method of drying wood and moisture indicator. 3,430,357, 3-4-69, Cl. 34-16.5
Perry, William D.Portable non-contact moisture meter including electrodes driven 180° out of phase. 3,448,381, 6-3-69, Cl. 324-61.

Perryman, Ronald Thomas, to Lesney Products & Co.Limited. Toy and model vehicles. 3,474,564, 10-28-69, Cl. 46-201.
Perryman, Ronald Thomas; and Rix, Frederick Noel, to Lesney Products & Co. Limited. Toy and model vehicles. 3,462,878, 8-26-69, Cl. 46-201.
Perschy, James A., to United States of America, Navy. Control system for a current steering switch. 3,478,223, 11-11-69, Cl. 307-88.
Pershan, Peter S.: *See—*
Myers, Robert A.; and Pershan, Peter S.,3,432,224.
Persico, George J.; and Steele, Luther R., to Walker Manufacturing Company. Bending press. 3,472,057, 10-14-69, Cl. 72-396.
Persidsky, Maxim D.; and Roach, William J., to Oxford Laboratories. Microtome. 3,440,913, 4-29-69, Cl. 83-422.
Persky, Nathan N., 1/2 to Purdy Co., The, and 1/2 to Sharonized Steel Co. Apparatus for scrap metal reduction. 3,486,704, 12-30-69, Cl. 241-167.
Person, Burton C.: *See—*
Armantrout, Robert J.; and Person, Burton C.,3,449,181.
Person, Herman R., to Dale Electronics, Inc. Electrical surge arrestor. 3,480,832, 11-25-69, Cl. 317-16.
Person, James E.; and Person, Robert E. Apparatus for use in forms for concrete. 3,436,053, 4-1-69, Cl. 249-192.
Person, John T.: *See—*
Eller, Joe C.; and Person, John T.,3,461,080.
Person, Robert E.: *See—*
Person, James E.; and Person, Robert E.,3,436,053.
Personalized Equipment, Inc.: *See—*
Wolicki, Jerry M., 3,457,916.
Persons, Robert C. Universal support for a cycle saddle brace. 3,486,766, 12-30-69, Cl. 280-287.
Persons-Majestic Mfg. Co.: *See—*
Bird, Martin J., 3,486,777.
Perspective Inc.: *See—*
Dewey, Donald E.; Hartman, Charles H.; Horn, Robert D.; and McCartney, Talmadge O., 3,422,537.
Persson, Bertil J., to Scan Coin AB. Coin feeding device. 3,422,824, 1-21-69, Cl. 133-3.
Persson, Bror Gothe. Mechanism for adjusting the backrest of seats in vehicles. 3,441,313, 4-29-69, Cl. 297-374.
Persson, Bror Gothe. Resilient chair support, especially for seats in motor vehicles. 3,446,527, 5-27-69, Cl. 296-65.
Persson, Eric S.; and Persson-Melin, Signe Harriett, to Expo-Nord AB. House of trifurcate configuration. 3,474,577, 10-28-69, Cl. 52-18.
Persson, Erik, to Allmanna Svenska Elektriska, Aktiebolaget. Power transmission plant for high voltage direct current. 3,487,286, 12-30-69, Cl. 321-2.
Persson, Erik; Claesson, Nils-Erik; Trulsson, Ingvar; and Melandsor, Osvald, to Allmanna Svenska Elektriska Aktiebolaget. Device for measuring the width of glowing objects by scanning with a photocell. 3,470,383, 9-30-69, Cl. 250-219.
Persson, Erland K., to Electro-Craft Corporation. Control apparatus. 3,436,573, 4-1-69, Cl. 310-113.
Persson, Henry. Sheet metal and plate deburring machine. 3,460,432, 8-12-69, Cl. 90-86.
Persson, Jan Edvard, to Atlas Copco Aktiebolag. Screw rotor machines. 3,437,263, 4-8-69, Cl. 230-143.
Persson, Karl Rune, to Sprinter-Pack AB. Carton box and blank therefor. 3,433,402, 3-18-69, Cl. 229-33.
Persson, Karl Rune, to Sprinter Pack AB. Blank for a glued cardboard box. 3,454,209, 7-8-69, Cl. 229-33.
Persson, Knut Axel Waldemar, to AB Broderna Hedlund. Apparatus for automatic welding of sheet metal shells, especially cistern shells. 3,436,518, 4-1-69, Cl. 219-126.
Persson, Sven Olof. Clamping device for use with carpenters' benches and the like. 3,474,841, 10-28-69, Cl. 144-306.
Persson, Tage G. Sheet metal deburring apparatus. 3,437,008, 4-8-69, Cl. 90-24.
Persson-Melin, Signe Harriett: *See—*
Persson, Eric S.; and Persson-Melin, Signe Harriett,3,474,577.
Perstorp Aktiebolag: *See—*
Bergstrand, Sten-Ake, 3,420,783.
Bergstrand, Sten-Ake, 3,431,083.
Flodin, Per Gustaf Magnus; Kornfeldt, Per; Okamura, Seizo; and Higashimura, Toshinobu, 3,442,862.
Gelhaar, Bo E. O., 3,484,396.
Ghosh, Arthur G., 3,463,750.
Pertics, Emil E. Catching and guide means in a berry harvester. 3,449,895, 6-17-69, Cl. 56-330.
Pertsev, Alexei Alexandrovich: *See—*
Butaev, Filipp Ivanovich; Klimov, Nikolai Semenovich; Pertsev, Alexei Alexandrovich; Stepanov, Nikolai Pavlovich; Shemaev, Alexandr Mikhailovich; and Shkolin, Ilya Dmitrievich,3,437,863.
Perttula, Harold V.: *See—*
Tsuchiya, Takuzo; and Perttula, Harold V.,3,464,827.
Pertwee, Kenneth S. G., to General Electric Company. Tungsten powder bonded filament connection for incandescent lamps and method of manufacture. 3,484,644, 12-16-69, Cl. 313-331.
Perucchetti, Arturo, to Dolomite Franchi S.p.A. Refractory lining for arc furnaces, adapted to facilitate dismembering upon completion of a campaign. 3,458,641, 7-29-69, Cl. 13-35.
Peruski, Gerald C. Device for cleaning and setting a hairpiece. 3,477,448, 11-11-69, Cl. 132-9.
Perusse, Norman J.; and Cheever, Wilbur D., to Wiremold Company, The. Helically ribbed tubing and method and apparatus for making the same. 3,472,131, 10-14-69, Cl. 93-80.
Perusse, Norman J.; and Cheever, Wilbur D., to Wiremold Company, The. Helically ribbed tubing and method and apparatus for making the same. 3,472,132, 10-14-69, Cl. 93-80.
Pervorse, Richard E.; Wiser, Joseph E.; Peterson, John A.; and Murray, Stephen F., to Mallory, P. R., & Co., Inc. Directional control systems for synchronous motors. 3,448,308, 6-3-69, Cl. 310-41.
Pervorse, Richard E.: *See—*
Simmons, Harold T.; and Pervorse, Richard E.,3,476,892.
Perwas, Ludwig F. Projected measuring surface gage blocks. 3,426,436, 2-11-69, Cl. 33-168.
Perwas, Ludwig F. Center-line gauges. 3,458,938, 8-5-69, Cl. 33-174.
Pesarini, Mario; and Tosti, Carlo, to Bombrini Parodi-Delfino Societa per Azioni. System including a tubular launching tube and a rocket provided with an outer auxiliary launching charge. 3,438,303, 4-15-69, Cl. 89-1.818
Pesavento, Joseph A.; and Washburn, Darl C., Jr., to Westinghouse Electric Corporation. Control for a dragline. 3,460,278, 8-12-69, Cl. 37-116.
Pescatrice, Michael: *See—*
Raynes, Bertram C.; and Pescatrice, Michael,3,464,617.
Pescetti, Anthony: *See—*
Anderson, William R.; Pescetti, Anthony; and Dakin, William V.,3,428,729.
Pesch, Herman; and Angell, George Z., to Phillips Petroleum Company. Container assembling machine. 3,468,225, 9-23-69, Cl. 93-36.5
Peschek, Robert, to Phonix Armaturen Werke Bregel G.m.b.H. Liquid level indicator. 3,420,103, 1-7-69, Cl. 73-319.
Peschke, Wilhelm: *See—*
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Peschke, Wilhelm,3,449,346.
Haack, Erich; Peschke, Wilhelm; Stach, Kurt; Schmidt, Felix H.; and Weber, Helmut,3,439,033.
Peschl, John; and Larson, Robert E., to Stanford Research Institute. Computer for the approximation of the correlation between signals. 3,435,194, 3-25-69, Cl. 235-181.
Pesek, Cyril P., to Colight, Inc. Apparatus for chemical etching. 3,431,921, 3-11-69, Cl. 134-127.
Pesold, William F., to Wyandotte Chemicals Corporation. Purification of calcium chloride liquors. 3,428,417, 2-18-69, Cl. 23-90.
Pessimisis, George N., to Nelco Chemical Company. Method of manufacturing hydrocracking catalysts. 3,425,957, 2-4-69, Cl. 252-455.
Pessin, Jacques H., to United States of America, Navy. Reflector antenna inflatable with foamed plastic. 3,448,456, 6-3-69, Cl. 343-873.
Pesterfield, Enos Charles, Jr., to Geigy Chemical Corporation. Preparation of 2-imidazolone derivatives by catalytic cyclization. 3,432,520, 3-11-69, Cl. 260-309.6
Pesterfield, Enos Charles, Jr., to Geigy Chemical Corporation. Cyclization of substituted propargyl ureas to 2- imidazolone derivatives. 3,435,051, 3-25-69, Cl. 260-309.6
Pet Chemicals, Inc.: *See—*
Dykinga, Richard J., 3,424,354.
Pet Incorporated: *See—*
Amadon, Roger M.; Crawford, Leo L.; and Mangelsdorf, Robert C., 3,452,862.
Bowen, Eldred W., 3,425,887.
Sargeant, Ralph G., 3,432,636.
Seghetti, Leland L., 3,427,819.
Petchen Corporation: *See—*
Schwarz, Herbert, 3,431,142.
Peter, Albin; and Mueller, Fred, to Sandoz Ltd., a/k/a Sandoz A.G. Process for dyeing hydrophobic organic textile materials with anthraquinone dyestuffs. 3,447,886, 6-3-69, Cl. 8-39.
Peter, Eberhard: *See—*
Heide, Gotthard, 3,452,583.
Peter, Erwin, to Vereinigte Metallwerke Ranshofen-Berndorf. Corner joint assembly with connecting means. 3,456,973, 7-22-69, Cl. 287-189.36
Peter, Erwin, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Method of connecting hollow-profile frames and frame-connection assembly. 3,468,573, 9-23-69, Cl. 287-189.36
Peter, Fritz, to Hunt, Rodney Company. Wet processing apparatus. 3,430,466, 3-4-69, Cl. 68-184.
Peter, Henry B.: *See—*
Klemm, William F.; and Alber, Hans, 3,426,793.
Peter, Joseph E., to Hamilton Caster & Mfg. Co., The. Caster brake mechanism. 3,467,981, 9-23-69, Cl. 16-35.
Peter, Joseph F. Lampshade. 3,445,647, 5-20-69, Cl. 240-108.

Peter KG: *See—*
Peter, Oskar Erich; and Peter, Lothar, 3,441,327.
Peter, Lothar: *See—*
Peter, Oskar Erich; and Peter, Lothar,3,441,327.
Peter, Oskar Erich; and Peter, Lothar, to Peter KG. Roller bearing. 3,441,327, 4-29-69, Cl. 308-217.
Peter, Philip W. Method of color coating bloated aggregate. 3,445,260, 5-20-69, Cl. 117-23.
Peter, Philip W. Process for treating sewage. 3,458,434, 7-29-69, Cl. 210-7.
Peter Van Dillen, Paul Joan; Vollmer, Eva Maria; Kallfass, Herbert; and Zimmermann, Max, to Borg Holding Aktiengesellschaft, and Farbenfabriken Bayer Aktiengesellschaft. Process for the surface treatment of plants containing water and/or steam. 3,428,488, 2-18-69, Cl. 134-3.
Peterkin, Melvin E.; and Scott, Kenneth A., to Sun Oil Company. Process for the purification of 2,6-dimethyl- naphthalene. 3,485,885, 12-23-69, Cl. 260-674.
Peterlein, Karl: *See—*
Hofmann, Paul; and Peterlein, Karl,3,435,091.
Peterli, Hans Jakob; and Randell, Donald Richard, to Geigy Chemical Corporation. Dibenzazepine compounds useful as stabilizers for oxidizable organic compositions. 3,475,412, 10-28-69, Cl. 260-239.
Peterman, Russel S.: *See—*
Archer, Lee A.; and Peterman, Russel S.,3,484,773.
Peters, Alec, to Omni-Card Systems, Inc. Hot die ribbon inker stamping machines. 3,430,557, 3-4-69, Cl. 101-27.
Peters, Alec, to Omni-Card Systems, Inc. Identification card and method of making it. 3,457,661, 7-29-69, Cl. 40-2.2
Peters, Alphonsus Maria; and Rongen, Jacobus Johannes, to U.S. Philips Corporation, mesne. Push-pull amplifier including transistor. 3,440,552, 4-22-69, Cl. 330-15.
Peters and Russell, Inc.: *See—*
Russell, Linus E., 3,462,073.
Russell, Linus E., 3,467,020.
Peters, Artur; and Friehe, Bernhard, to Unilever N.V. Package for foodstuffs. 3,445,050, 5-20-69, Cl. 229-14.
Peters, Beldon A., to Esso Production Research Company. Well completion technique and apparatus for use therewith. 3,455,387, 7-15-69, Cl. 166-278.
Peters, Bryon M. Grass and weed eradicating spray unit. 3,464,629, 9-2-69, Cl. 239-104.
Peters, Byron M., to Ampex Corporation. Auxiliary wheel unit for a lawn edger. 3,448,812, 6-10-69, Cl. 172-15.
Peters, Charles Jack, to Sylvania Electric Products Inc. Light depolarizer. 3,433,553, 3-18-69, Cl. 350-157.
Peters, Charles J., to Sylvania Electric Products, Inc. Laser communications system employing narrow band noise cancellation. 3,465,156, 9-2-69, Cl. 250-199.
Peters, Claude H.; Peters, Richard C.; and Peters, Jack A. System control for blower in forced air system used for heating. 3,474,961, 10-28-69, Cl. 236-10.
Peters, Clifford M. Spring loaded intermittent and constant flow gas lift valve and system. 3,424,099, 1-28-69, Cl. 103-233.
Peters, Collette I.: *See—*
Peters, Myron J.; and Peters, Collette I.,3,483,810.
Peters, Don B.: *See—*
Brown, Omar L.; and Peters, Don B.,3,454,185.
Peters, Donald L., to Phillips Petroleum Company. Blow molded closure. 3,438,538, 4-15-69, Cl. 220-39.
Peters, Donald L.; and Alexander, Doyle L., to Phillips Petroleum Company. Method and apparatus for blow-molding hollow articles with integrally molded hollow handles. 3,424,829, 1-28-69, Cl. 264-89.
Peters, Earl; and Cain, James Palmer, to Deering Milliken Research Corporation. Wool fibers sensitized for setting by applying thereto one member of a reducing agent-producing coreactant pair, mechanically finishing and applying the second member of said pair. 3,449,061, 6-10-69, Cl. 8-127.6
Peters, Earl; and Dusenbury, Joseph H., to Deering Milliken Research Corporation. Polyhydroxy compounds used in conjunction with reducing agents in wool setting processes. 3,423,166, 1-21-69, Cl. 8-128.
Peters, Edward L., to United States of America, Navy. Deep water hydrobarophone. 3,447,379, 6-3-69, Cl. 73-398.
Peters, Edward M.: *See—*
Dickson, Arthur D.; and Peters, Edward M.,3,484,183.
Peters, Edwin F.; and Juveland, Omar O., to Standard Oil Company (Indiana). Saturation of polyalkylenes. 3,475,399, 10-28-69, Cl. 260-93.7
Peters, Forrest I.: *See—*
Andrews, Paul W.; and Peters, Forrest I.,3,472,803.
Peters, Francis Michael: *See—*
Coates, Harold; Brown, David Albert; and Peters, Francis Michael,3,429,851.
Peters, Frederick C. Electric switch for moving cables with spring-wire trip rod and contacts. 3,471,660, 10-7-69, Cl. 200-61.13
Peters, Freimut: *See—*
Witte, Josef; Herrmann, Marion; Woidt, Jurgen; and Peters, Freimut,3,457,111.
Peters, G. D., & Co. (Engineering) Limited: *See—*
Stretton, Henry Jackson, 3,439,454.
Peters, Gavin H.: *See—*
Harris, Samuel W.; Morello, Edwin F.; and Peters, Gavin H.,3,459,494.
Peters, George A.; and Briney, Douglas, to United States of America, Air Force. Integrated-circuit carrier. 3,454,154, 7-8-69, Cl. 206-56.
Peters, George T.; and Oickle, Charles, Jr., to United Aircraft Corporation. Dynamic braking system for wheeled vehicles. 3,434,569, 3-25-69, Cl. 188-2.
Peters, Hans A. Method for the preparation of rubberlike elastic urethane polymers. 3,463,759, 8-26-69, Cl. 260-75.
Peters, Harold P.; and Woods, John T., to Whirlpool Corporation. Gasket brace. 3,461,610, 8-19-69, Cl. 49-478.
Peters, Harry L.; Nessim, David J.; Morrow, James J.; and Hilton, Garrett H., Jr., to Fischer & Porter Co. Chlorine gas leak detector. 3,471,391, 10-7-69, Cl. 204-195.
Peters, Heinrich: *See—*
Furkert, Herbert; Mahler, Friedrich; Peters, Heinrich; and Stauffer, Adolf,3,443,896.
Peters, Helmut: *See—*
Gasparac, Rudolph J.; and Peters, Helmut,3,443,846.
Peters, Helmut; and Szaj, Arnold P., to Nordberg Manufacturing Company. Locking and adjusting means for crushers and control means therefor. 3,420,457, 1-7-69, Cl. 241-207.
Peters, Herbert H.: *See—*
Daniels, Guy L.,3,442,178.
Peters, Jack A.: *See—*
Peters, Claude H.; Peters, Richard C.; and Peters, Jack A.,3,474,961.
Peters, Jack David. Stamp device for writing instruments. 3,438,716, 4-15-69, Cl. 401-195.
Peters, Jack Rowland: *See—*
Mash, Derek Hubert; and Peters, Jack Rowland,3,470,378.
Peters, James G. Albums for photographs or the like. 3,422,557, 1-21-69, Cl. 40-158.
Peters, James; Clift, Mason A., Jr.; Stagg, Theodore B., Jr.; and Davis, Francis E., Jr., to United States of America, Navy, mesne. Peak detector circuit for providing an output proportional to the amplitude of the input signal. 3,469,111, 9-23-69, Cl. 307-235.
Peters, John, Associates, Inc.: *See—*
Peters, John J., 3,429,639.
Peters, John J., to Peters, John, Associates, Inc. Remotely operable vehicular mirror and coupling mechanism. 3,429,639, 2-25-69, Cl. 350-289.
Peters, John William, to International Standard Electric Corporation. Code generating keyboard apparatus. 3,454,717, 7-8-69, Cl. 178-17.5
Peters, John: *See—*
Grigor, James; and Peters, John,3,484,486.
Peters, John; and Grigor, James, to United States of America, Navy. 2,2-Bis(difluoroamino)-alkanes by reacting aliphatic ketone with difluoramine and BF_3. 3,432,554, 3-11-69, Cl. 260-583.
Peters, Myron J.; and Peters, Collette I. Food tenderizing device. 3,483,810, 12-16-69, Cl. 99-257.
Peters, Nicholas. Rotational positioning system for electric motors. 3,437,895, 4-8-69, Cl. 318-33.
Peters, Nicholas. Reversible direct current motor. 3,466,482, 9-9-69, Cl. 310-269.
Peters, Philip H., Jr., to General Electric Company. Inverted cross-field device having an arcuately segmented cathode. 3,458,754, 7-29-69, Cl. 315-39.3
Peters, Rex B., to Endevco Corporation. Accelerometer. 3,461,730, 8-19-69, Cl. 73-517.
Peters, Richard C.: *See—*
Peters, Claude H.; Peters, Richard C.; and Peters, Jack A.,3,474,961.
Peters, Richard T.; Stone, Eliot; and Bourdon, Joseph J., to National Cash Register Company, The. Magnetic record members. 3,466,156, 9-9-69, Cl. 29-195.
Peters, Robbert N., to Atwood Vacuum Machine Company. Door check. 3,447,191, 6-3-69, Cl. 16-82.
Peters, Robert W., to Gorski, Henry J. Stator winding machine. 3,467,324, 9-16-69, Cl. 242-1.1
Peters, Robert W., to Gorski, Henry J. Apparatus for winding stator coils. 3,484,923, 12-23-69, Cl. 29-205.
Peters, Robert W.; and Luber, Fredrick G., to Gorski, Henry J. Three phase concentric stator windings and method of winding. 3,432,707, 3-11-69, Cl. 310-180.
Peters, Roger Hugh: *See—*
Chapman, John Dickinson; Dee, Geoffrey Thomas; Janikowski, Stanislaw Maria; and Peters, Roger Hugh,3,449,107.
Peters, Timothy V. Process of reticulating polyurethane foams. 3,475,525, 10-28-69, Cl. 264-101.
Peters, Vernon G., to Anaconda Wire and Cable Company. Wire take-up. 3,420,459, 1-7-69, Cl. 242-25.

Peters, Wayne J. Collapsible cover for luggage compartments in compact vehicles. 3,446,526, 5-27-69, Cl. 296-37.
Peters, Werner; Echterhoff, Heinrich; and Bertling, Heribert, to Bergwerksverband G.m.b.H. Process of producing iron-coke bodies. 3,427,148, 2-11-69, Cl. 75-4.
Peters, Werner; and Lehmann, Joachim, to Bergwerksverband G.m.b.H. Method for producing coke briquettes. 3,475,278, 10-28-69, Cl. 201-6.
Peters, Werner: *See—*
Schmeling, Gerhard; Peters, Werner; and Kleisa, Kurt,3,444,048.
Peters, William J., to E.F.L.,Inc. Eternal light memorial structure. 3,444,363, 5-13-69, Cl. 240-10.
Peters, William J. Trailer safety hitch. 3,479,056, 11-18-69, Cl. 280-461.
Peterschmidt, Paul L., to Frigidome Corporation. Methods of and systems for treating agriculture products. 3,426,669, 2-11-69, Cl. 98-55.
Petersen, Alfred A., to Universal Oil Products Company. Adjustable particle collection apparatus. 3,477,570, 11-11-69, Cl. 209-144.
Petersen, Allen J.; and Hansen, Everett K., to Rae Motor Corporation. Electric motor brush holder mounting. 3,431,445, 3-4-69, Cl. 310-239.
Petersen, Allen J.; and Hansen, Everett K., to Rae Motor Corporation. Electric motor brush holder, cap and spring. 3,431,446, 3-4-69, Cl. 310-247.
Petersen, Andreas. Long-handled brush. 3,431,575, 3-11-69, Cl. 15-176.
Petersen, Anita E.: *See—*
Petersen, Gerald A., 3,426,459.
Petersen, Gerald A., 3,483,931.
Petersen, Gerald A., 3,484,844.
Petersen, Arne J., to Beckman Instruments, Inc. Reference electrode. 3,486,997, 12-30-69, Cl. 204-195.
Petersen, Arne J.; and Taylor, John T., to Beckman Instruments, Inc. Flow cell assembly. 3,479,270, 11-18-69, Cl. 204-195.
Petersen, Arne J.: *See—*
Leonard, Lynn B.; and Petersen, Arne J.,3,444,068.
Snyder, Robert B.; and Petersen, Arne J.,3,476,672.
Petersen, Bent Schare, to Danfoss A/S. Memory having a multivalved impedance element. 3,445,823, 5-20-69, Cl. 340-173.
Petersen, Burdette A., to Weber, H. G., and Company, Inc. Low viscosity bottom paste applicator for bag machines. 3,450,099, 6-17-69, Cl. 118-212.
Petersen, Christian C.: *See—*
Hanna, William L.; and Petersen, Christian C.,3,479,485.
Petersen, Darrell M.: *See—*
Baldwin, Rolland G.; and Petersen, Darrell M.,3,465,442.
Petersen, Donald H., to Weyerhaeuser Company. Moisture content measuring method and apparatus. 3,452,193, 6-24-69, Cl. 250-43.5
Petersen, Edward A. Cantilevered transfer support for wheelchairs and wheelchair incorporating the same. 3,484,877, 12-23-69, Cl. 5-86.
Petersen, Eirik Nicoll, to Institutt for Atomenergi. Nuclear reactor. 3,429,775, 2-25-69, Cl. 176-54.
Petersen, Elmer. Pallet molding. 3,435,784, 4-1-69, Cl. 108-51.
Petersen, Gerald A., 1/2 to Petersen, Anita E. Tooth and holder for bucket. 3,426,459, 2-11-69, Cl. 37-142.
Petersen, Gerald A. Pilot bit with replaceable teeth. 3,426,860, 2-11-69, Cl. 175-392.
Petersen, Gerald A. Pivoted tooth-holder for tunneling machine. 3,439,758, 4-22-69, Cl. 175-381.
Petersen, Gerald A. Tensioner bull wheel shaft structure. 3,439,883, 4-22-69, Cl. 242-155.
Petersen, Gerald A., 1/2 to Petersen, Anita E. Round holder for replaceable cutters for earth-digging. 3,483,931, 12-16-69, Cl. 172-548.
Petersen, Gerald A., 1/2 to Petersen, Anita E. Resilient retaining means for ripper chain teeth. 3,484,844, 12-16-69, Cl. 37-142.
Petersen, Gert Kokholm; and Rasmussen, Erik B. Method for the determination of acid-base status in biological fluids. 3,467,582, 9-16-69, Cl. 204-1.
Petersen, Gilbert L., to General Motors Corporation. Flexible cable and casing adaptor tip assembly. 3,440,836, 4-29-69, Cl. 64-4.
Petersen, Harlie O. Irrigation systems. 3,433,023, 3-18-69, Cl. 61-12.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 2-Oxo-or thio-4-alkoxy or alkoxyalkoxy-alkyl- hexahydropyrimidines. 3,450,702, 6-17-69, Cl. 260-251.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 2-Oxo-or thio-4-hydroxy-alkyl- hexahydropyrimidines. 3,450,703, 6-17-69, Cl. 260-251.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alkyl substituted 4-hydroxy-, alkoxy-or alkoxy alkoxy-propylene ureas or propylene thioureas. 3,452,017, 6-24-69, Cl. 260-251.
Petersen, Irving J.: *See—*
Brannon, Edward O.; and Petersen, Irving J.,3,480,039.
Petersen, John F. Method and apparatus for draining water. 3,427,810, 2-18-69, Cl. 61-10.
Petersen, Kenneth C., to Schenectady Chemicals, Inc. Ammonium biborate and ammonium pentaborate catalyzed and co-reacted phenol formaldehyde resins. 3,464,956, 9-2-69, Cl. 260-57.
Petersen, Kenneth C., to Schenectady Chemicals, Inc.Adhesive comprising polychloroprene, alkylated ρ- phenol having 2 to 6 carbon atoms and ρ-cresol condensed with formaldehyde. 3,478,127, 11-11-69, Cl. 260-845.
Petersen, Kenneth C.: *See—*
Jordan, Manuel A.; and Petersen, Kenneth C.,3,437,123.
Petersen, Kenneth. Resins containing boron. 3,445,430, 5-20-69, Cl. 260-47.
Petersen, Kurt H.; and Pankow, Paul A. H., to Minnesota Mining and Manufacturing Company. Heating device. 3,469,077, 9-23-69, Cl. 219-469.
Petersen, Paul S., to Rosemount Engineering Company. Mold and method of making same. 3,434,182, 3-25-69, Cl. 18-35.
Petersen, Povl Viggo; Lassen, Niels; Norgaard, Jette; and Huld, Torben, to Kefalas A/S. Antidepressant basic derivatives of phthalanes, iso-chromanes and iso-chromenes. 3,467,675, 9-16-69, Cl. 260-346.2
Petersen, Raymond C.: *See—*
Ross, Sidney D.; Petersen, Raymond C.; and Finkelstein, Manuel,3,459,643.
Petersen, Rudolph S., to Sanders Associates, Inc. Temperature sensitive switch. 3,442,278, 5-6-69, Cl. 137-81.5
Petersen, Siegfried; Gold, Heinrich; Grundmann, Ekkehard; and Juhling, Lieselotte, to Farbenfabriken Bayer Aktiengesellschaft. Quinone derivatives of imidazoles and pyrazoles. 3,461,130, 8-12-69, Cl. 260-309.
Petersen, Tom Kastrup, to Danfoss A/S. Liquid-level measuring equipment. 3,485,100, 12-23-69, Cl. 73-295.
Petersen, Walter M. Portable camper cabin. 3,455,310, 7-15-69, Cl. 135-2.
Petersik, Adolph R.: *See—*
Swisher, George W., Jr.; Spivey, Gordon L.; and Petersik, Adolph R.,3,423,859.
Petersik, Peter: *See—*
Boe, Hans; Petersik, Peter; and Buchsenstein, Wilhelm,3,471,315.
Peterson, A. E., Mfg. Co.: *See—*
Peterson, Arnold E., 3,425,743.
Peterson, Arnold E., 3,480,290.
Peterson, Adolphe C. Variable systems of propulsion for automobiles. 3,433,317, 3-18-69, Cl. 180-7.
Peterson, Adolphe C. Turbine gas generator and work propulsion system for aircraft and other vehicles. 3,442,082, 5-6-69, Cl. 60-224.
Peterson, Adolphe C. Variable sustentation systems for aircraft. 3,484,059, 12-16-69, Cl. 244-46.
Peterson, Alan H., to Marathon Oil Company. Cationic ion exchange resin catalysts and process for their production and use. 3,479,322, 11-18-69, Cl. 260-67.
Peterson, Alan H., to Marathon Oil Company. Production of 3,4,5,-trimethyl-1-secondary alkyl benzenes. 3,487,119, 12-30-69, Cl. 260-671.
Peterson, Alan H.; and Farrar, Grover L., to Marathon Oil Company. Viscous flammable compositions. 3,447,914, 6-3-69, Cl. 44-7.
Peterson, Alan H.: *See—*
Plummer, Mark A.; and Peterson, Alan H.,3,487,012.
Peterson, Alfred Arnold: *See—*
Whiton, Louis C.; and Peterson, Alfred Arnold,3,432,994.
Peterson, Arnold E., to Peterson, A. E., Mfg. Co. Folding high chair with adjustable rack. 3,425,743, 2-4-69, Cl. 297-19.
Peterson, Arnold E., to Peterson, A. E., Mfg., Co. Collapsible baby stroller. 3,480,290, 11-25-69, Cl. 280-36.
Peterson, Arnold G., to L. M. & L. Corporation. Endless belt assembly with insert coupling. 3,461,733, 8-19-69, Cl. 74-238.
Peterson Automated Paper Handling Systems, Inc.: *See—*
Peterson, Eric Ronald, 3,429,469.
Peterson, Bertil Albin, to Mobil Oil Corporation. Alkaline earth metal carboxylate dispersions. 3,437,594, 4-8-69, Cl. 252-40.7
Peterson, Bruce E., to Vapor Corporation. Circuit for controlling the operation of a static inverter under overload conditions. 3,444,453, 5-13-69, Cl. 321-14.
Peterson, Bruce Even: *See—*
Burant, Leonard Joseph; and Peterson, Bruce Even,3,471,766.
Peterson, Bulow A.; and Carlson, Gale K., to Kewanee Manufacturing Company. Door frames. 3,469,360, 9-30-69, Cl. 52-217.
Peterson, Bulow A.: *See—*
Malmrose, John P.; and Peterson, Bulow A.,3,468,059.
Peterson, C. Lynn; and Peterson, John G., to Peterson Filters & Engineering Company. Disc filter sector assembly and separable components thereof. 3,485,376, 12-23-69, Cl. 210-331.
Peterson, Carl A.; and Appel, Wallace H., to Westinghouse Electric Corporation. Countertop dishwasher. 3,460,878, 8-12-69, Cl. 312-297.
Peterson, Carl B., Jr., to Hubbell, Harvey, Incorporated. Electrical wiring device having improved captured screw terminals. 3,426,321, 2-4-69, Cl. 339-263.

Peterson, Carl B., Jr., to Hubbell, Harvey, Incorporated. Thread forming screw and method of making. 3,472,119, 10-14-69, Cl. 85-47.
Peterson, Carl L.: *See—*
Gungle, Warren C.; Peterson, Carl L.; and Waymouth, John F.,3,424,935.
Peterson, Carl R.: *See—*
Buehler, Alois A.; and Peterson, Carl R.,3,431,984.
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr., to Eastman Kodak Company. Photographic camera with retractile lens and shutter trigger. 3,440,939, 4-29-69, Cl. 95-11.
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr., to Eastman Kodak Company. Photographic camera with metered film advance and double exposure prevention. 3,473,456, 10-21-69, Cl. 95-31.
Peterson, Dean M.; Windle, William, Jr.; and Pickering, Charles E., to Eastman Kodak Company. Retractile lens camera with automatic exposure control system and battery preserving switch. 3,439,596, 4-22-69, Cl. 95-11.
Peterson, Don G.: *See—*
Culshaw, William; Dahlquist, John A.; and Peterson, Don G.,3,463,924.
Peterson, Don M.: *See—*
Gibson, Clyde E.; and Peterson, Don M.,3,446,520.
Peterson, Donovan F., to U. S. Automatics Corporation. Semiconductor controlled switch circuit component. 3,448,298, 6-3-69, Cl. 307-303.
Peterson Enterprises, Incorporated: *See—*
Stemke, Henry F., 3,458,256.
Peterson, Eric Ronald, to Peterson Automated Paper Handling Systems, Inc. Paper stacking apparatus. 3,429,469, 2-25-69, Cl. 214-730.
Peterson, Evald O.: *See—*
Dunlap, Robert B.; Peterson, Evald O.; and Von Schoppe, Bertram A.,3,449,933.
Peterson, Evald O., to Compo Shoe Machinery Corporation. Die-cutting machine with rotatable die- supporting platen. 3,431,806, 3-11-69, Cl. 83-561.
Peterson Filters & Engineering Company: *See—*
Peterson, C. Lynn; and Peterson, John G., 3,485,376.
Peterson, Francis C., to Hager, C., & Sons Hinge Manufacturing Company. Hinge. 3,441,977, 5-6-69, Cl. 16-168.
Peterson, George E., to Bell Telephone Laboratories, Incorporated. Wideband feedback coherence control for Superregenerative oscillators. 3,439,259, 4-15-69, Cl. 324-0.5
Peterson, George E., to Bell Telephone Laboratories, Incorporated. Optical $LiNbO^3$ modulator. 3,446,966, 5-27-69, Cl. 250-199.
Peterson, George E.: *See—*
Pearson, Arthur D.; Peterson, George E.; and Porto, Sergio P. S.,3,462,707.
Peterson, Gerald D.; and Schaffer, Harry J., to Corning Glass Works. Centrifugal forming mold. 3,459,527, 8-5-69, Cl. 65-302.
Peterson, Gerald H. Cyclobutyl phosphate and phosphonate esters. 3,485,898, 12-23-69, Cl. 260-958.
Peterson, Gerald H. Cyclopropyl phosphates and phosphonates. 3,485,899, 12-23-69, Cl. 260-958.
Peterson, Gordon E.; and Moyer, Robert G., to Union Carbide Corporation. Flexible drinking tube. 3,438,578, 4-15-69, Cl. 239-33.
Peterson, Hal D.: *See—*
Fuerstenau, Maurice C.; and Peterson, Hal D.,3,438,494.
Peterson, Hans P.: *See—*
Decker, Alan S.; and Peterson, Hans P.,3,453,838.
Peterson, Hans P., to Dunham-Bush, Inc. Refrigeration system and method. 3,460,354, 8-12-69, Cl. 62-184.
Peterson, Harley G.: *See—*
Kossowski, Kazimierz; and Peterson, Harley G.,3,426,507.
Peterson, Harold A.: *See—*
Hanks, Charles W.; Merrill, Jack D.; and Peterson, Harold A.,3,420,977.
Peterson, Henry J., to Sun Oil Company. Production of 6,7-dimethyltetralin and 2,3- dimethylnaphthalene. 3,428,698, 2-18-69, Cl. 260-668.
Peterson, Henry J., to Sun Oil Company. Preparation of substituted o-nitrophenols. 3,461,173, 8-12-69, Cl. 260-622.
Peterson, Howard P., to Research Corporation. Sanitizing apparatus for milking machines. 3,461,845, 8-19-69, Cl. 119-14.18
Peterson, Howard: *See—*
Smith, David R.; and Peterson, Howard,3,424,706.
Peterson, Jack B., to Hyster Company. Vibratory compactor. 3,437,019, 4-8-69, Cl. 94-50.
Peterson, Jack W., to Char-Lynn Company. Fluid pressure balanced valve. 3,425,448, 2-4-69, Cl. 137-625.24
Peterson, Janet Brooks; and Dexter, Martin, to Geigy Chemical Corporation. Compositions of organic material stabilized with certain esters of substituted hydroquinones and organic acids. 3,459,704, 8-5-69, Cl. 260-45.85
Peterson, John A., to Hooker Chemical Corporation. Production of sodium phosphates. 3,421,845, 1-14-69, Cl. 23-107.
Peterson, John A.: *See—*
Pervorse, Richard E.; Wiser, Joseph E.; Peterson, John A.; and Murray, Stephen F.,3,448,308.
Peterson, John G.: *See—*
Peterson, C. Lynn; and Peterson, John G.,3,485,376.
Peterson, John L., to Atlas Spokane, Inc. Noncylindrical particle storage facility. 3,469,719, 9-30-69, Cl. 214-17.
Peterson, John L., to Atlas Spokane, Inc. Central particle removing system for noncylindrical storage facilities. 3,469,720, 9-30-69, Cl. 214-17.
Peterson, John L.; and Pettis, George H., to Atlas Spokane, Inc. Drive mechanism including chain. 3,469,464, 9-30-69, Cl. 74-221.
Peterson, John Loran: *See—*
Johnsen, James Alvin; and Peterson, John Loran,3,432,772.
Peterson, John W.; and Schick, Henry, to Gilbert Manufacturing Company, Inc. Apparatus for assembling electrical connectors. 3,444,607, 5-20-69, Cl. 29-203.
Peterson, Joseph A.: *See—*
Bell, Leo R.; and Peterson, Joseph A.,3,429,124.
Peterson, Joseph Le Roy, to Tyler, W. S., Incorporated. Method and apparatus for wet sizing finely divided solid materials. 3,438,490, 4-15-69, Cl. 209-17.
Peterson, Karl E., to Western Electric Company, Incorporated. Apparatus and method for indicating defective welds. 3,433,921, 3-18-69, Cl. 219-110.
Peterson, Laurel L.: *See—*
Anderson, Norman L.; Darnall, Millard K.; Morgan, William C.; Peterson, Laurel L.; and Stedman, Robert N.,3,478,902.
Peterson, Leslie M. Pivotal locking device. 3,453,925, 7-8-69, Cl. 85-3.
Peterson, Louis H.: *See—*
Sarett, Lewis H.; Rooney, Clarence S.; and Peterson, Louis H.,3,439,019.
Peterson, Lyn F.: *See—*
Conforti, Fred J.; and Peterson, Lyn F.,3,471,805.
Peterson, M., & Son A/S: *See—*
Rabstad, Lars, 3,477,906.
Peterson, Marvin L. Water-bearing explosive compositions gelled with polymeric amide-aldehyde and method of making same. 3,451,868, 6-24-69, Cl. 149-60.
Peterson, Merton W., to Massey-Ferguson Inc. Hilldrop planter. 3,460,720, 8-12-69, Cl. 222-367.
Peterson, Neal Duane, to Foxboro Company, The. Function simulator. 3,482,169, 12-2-69, Cl. 328-59.
Peterson, Niels G.: *See—*
Di Giulio, Edmund M.; Jurgens, John, Jr.; and Peterson, Niels G.,3,420,422.
Peterson, Oscar A., to Halcon International, Inc. Agitator shaft steady bearing. 3,443,794, 5-13-69, Cl. 259-1.
Peterson, Ralph W., to Ludlum Steel Corporation. Two-position intermittent movement. 3,473,417, 10-21-69, Cl. 74-820.
Peterson, Raymond L.: *See—*
Burke, George F. C.; Duffy, Richard J.; and Peterson, Raymond L.,3,452,714.
Peterson, Richard C.: *See—*
Lambert, Kermit N.; and Peterson, Richard C.,3,439,230.
Peterson, Richard G.; and Fujii, George R., to Gallo, E & J, Winery. Two stage sequential ion exchange treatment for wine improvement. 3,437,491, 4-8-69, Cl. 99-35.
Peterson, Richard G.; and Jaffe, Emanuel B., to Gallo, E & J, Winery. Berry and fruit treating process. 3,484,254, 12-16-69, Cl. 99-105.
Peterson, Richard H. Electronic musical instrument producing piano effects. 3,444,306, 5-13-69, Cl. 84-1:13
Peterson, Richard J.: *See—*
Chalfin, Bernard D.; and Peterson, Richard J.,3,442,163.
Peterson, Richard L., to Minnesota Mining and Manufacturing Company. Adhesives and adhesive tapes. 3,441,430, 4-29-69, Cl. 117-68.5
Peterson, Robert A., to Caterpillar Tractor Company. Earthmoving scraper with multiple articulated apron structure. 3,471,952, 10-14-69, Cl. 37-129.
Peterson, Robert A., to Caterpillar Tractor Company. Bucket arrangement with articulated gathering cover. 3,477,602, 11-11-69, Cl. 214-767.
Peterson, Robert C.; and Maass, Herman M., to Anaconda Company, The. Separate recovery of copper sulfide and zinc sulfide from aqueous solutions containing water- soluble salts of copper and zinc. 3,421,850, 1-14-69, Cl. 23-135.
Peterson, Robert E. Streamlined missile device for location of submarines. 3,483,837, 12-16-69, Cl. 114-20.
Peterson, Robert R.; Schmidt, Warren E.; and Woodford, Philip R., to Lord Corporation. Tube form mounting. 3,467,353, 9-16-69, Cl. 248-358.
Peterson, Robert W., to Walker Manufacturing Company. Jack-type weigher with cantilever spring. 3,433,314, 3-18-69, Cl. 177-146.
Peterson, Roger F. Compact weigher and postage computer with selectable-fulcrum beam. 3,454,120, 7-8-69, Cl. 177-126.
Peterson, Roger W.: *See—*
Carlson, Arthur W.; and Peterson, Roger W.,3,469,814.
Peterson, Roswald M. Method for making dies. 3,431,767, 3-11-69, Cl. 72-327.
Peterson, Roy L. Press. 3,450,031, 6-17-69, Cl. 100-93.

Peterson, Rudolph Andrew, Jr.; and Polzin, Donald Herman, to Deere & Company. Clevis. 3,471,171, 10-7-69, Cl. 280-497.
Peterson, Seymour A.; and Granath, John W., to Storm Industries, Inc. Method of controlling the laying habits of poultry. 3,439,651, 4-22-69, Cl. 119-21.
Peterson, Stanley E.: *See*—
Merritt, Edward E.; Titterud, Curtiss W.; Peterson, Stanley E.; and Bulow, Arthur J.,3,478,390.
Peterson, Theodore R. Coin operated time indicating device. 3,433,344, 3-18-69, Cl. 194-84.
Peterson, Thomas G.; and Pomerantz, Marvin A., to Great Plains Bag Co. Material spreader for a lawnmower. 3,447,723, 6-3-69, Cl. 222-193.
Peterson, Vincent C. J., to American Chain & Cable Company, Inc. Energy absorbing system. 3,430,897, 3-4-69, Cl. 244-110.
Peterson, Vincent C. J.: *See*—
Gilmore, William J.; and Peterson, Vincent C. J.,3,465,743.
Peterson, Walter E., to International Telephone and Telegraph Corporation. Self-controlled variable time base tape programmer. 3,482,081, 12-2-69, Cl. 235-61.11
Peterson, William B. Auxiliary wheel assembly. 3,450,013, 6-17-69, Cl. 94-50.
Peterson, William D.; and Kline, Arthur J., Jr., to United States of America, National Aeronautics and Space Administration. Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities. 3,470,475, 9-30-69, Cl. 325-63.
Peterson, William H., to Pullman Incorporated. Double acting hydraulic cushion. 3,468,433, 9-23-69, Cl. 213-43.
Petertil, Victor A.; and Teague, James, Jr. Integral clamp. 3,453,700, 7-8-69, Cl. 24-137.
Pethis, James J., to Fafnir Bearing Company, The. Bearing seal construction. 3,423,141, 1-21-69, Cl. 308-187.2
Petit, Albert Louis: *See*—
Lang, Charles Leo; and Petit, Albert Louis,3,474,955.
Petit, Pierre, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process for the production of a fluid rich in methane from liquefied natural gas under a low initial pressure. 3,420,068, 1-7-69, Cl. 62-23.
Petit, Rene: *See*—
Betoule, Michel; L'Hermite, Pierre; and Petit, Rene,3,465,190.
Betoule, Michel; L'Hermite, Pierre; and Petit, Rene,3,474,276.
Betoule, Michel; Petit, Rene; and Rebuffie, Jean Claude,3,444,414.
Clement, Pierre; Gombert, Jean-Marie; and Petit, Rene,3,477,950.
Petitt, William H., to Harriman Manufacturing Company, The. Method for welding nodular iron to steel. 3,449,545, 6-10-69, Cl. 219-137.
Petko, Michael A.; and Burger, Theodore G., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The, mesne. Holding device. 3,439,512, 4-22-69, Cl. 66-14.
Petko, Michael A.: *See*—
Wiesinger, Frederick C.; and Petko, Michael A.,3,425,244.
Petkus, John J., to Standard Oil Company (Indiana). Acid-resistant cement products. 3,450,548, 6-17-69, Cl. 106-84.
Petner, Eugene J., to Williams Gold Refining Company, Inc. Dental crowns faced with polyglycol dimethacrylate and process for making. 3,470,615, 10-7-69, Cl. 32-12.
Petner, Eugene J.; Baumann, Erwin; and Cornell, John A., to Williams Gold Refining Company, Inc. Process of making fused thermosetting dental objects. 3,471,596, 10-7-69, Cl. 264-19.
Petracek, Francis J., to Rexall Drug and Chemical Company. α-Diaryl α,τ-alkylene glycol-diloweralkylamines. 3,433,836, 3-18-69, Cl. 260-570.
Petracek, Francis J., to Rexall Drug and Chemical Company. N-substituted o-benzoylbenzamide. 3,452,092, 6-24-69, Cl. 260-558.
Petracek, Francis J.: *See*—
Klohs, Murle W.; and Petracek, Francis J.,3,446,820.
Klohs, Murle W.; and Petracek, Francis J.,3,471,519.
Petrack, Barbara: *See*—
Greengard, Paul; and Petrack, Barbara,3,462,534.
Petraglia, Annmarie G., to Richardson-Merrell Inc. Clear gels of aromatic oils and method of preparing the same. 3,444,091, 5-13-69, Cl. 252-316.
Petralia, Raymond Rosario: *See*—
Giella, Mario; and Petralia, Raymond Rosario,3,444,625.
Petranek, David J., to Trane Company, The. Fan speed control for refrigeration system. 3,455,118, 7-15-69, Cl. 62-180.
Petransky, William E.: *See*—
Cruger, Robert W.; Petransky, William E.; and Weiss, Melvin I.,3,433,438.
Petre, John R., to McGraw-Edison Company. Laundry machine. 3,470,717, 10-7-69, Cl. 68-9.
Petree, Harris E.: *See*—
Gaunt, John A.; and Petree, Harris E.,3,424,776.
Petrell, Wilfred M.: *See*—
Moyer, Allan M.; McCarthy, William R.; and Petrell, Wilfred M.,3,464,506.
Petrella, Robert Gabriel: *See*—
Koblitz, Francis Frederick; and Petrella, Robert Gabriel,3,441,531.
Koblitz, Francis Frederick; and Petrella, Robert Gabriel,3,470,014.
Petri, Albert J.: *See*—
Trelc, William F.; and Petri, Albert J.,3,443,272.
Petri, Andrew W., to Nugent, William W., & Co., (Inc.). Filter cartridge. 3,481,472, 12-2-69, Cl. 210-232.
Petri, Andrew. Burglar-proof lock. 3,449,006, 6-10-69, Cl. 292-346.
Petrich, Erwin: *See*—
Fuhring, Heinrich; and Petrich, Erwin,3,425,141.
Petrich, Louis G., to United States of America, Army, mesne. Low profile open-ended waveguide antenna with dielectric disc lens. 3,434,146, 3-18-69, Cl. 343-753.
Petrick, Joseph R., to Jackson & Church Electronics Company, Inc. System for sensing levels and electrical characteristics of fluent materials. 3,474,337, 10-21-69, Cl. 324-58.5
Petricola, Anthony J.: *See*—
Cranford, William B.; Petricola, Anthony J.; and McLeod, Murray J.,3,475,269.
Petrides, Christie: *See*—
Albinger, Harry, Jr.; and Petrides, Christie,3,461,663.
Petrides, Christie, to General Electric Company. Synchronous motor. 3,432,735, 3-11-69, Cl. 318-138.
Petrie & McNaught Limited: *See*—
Rutter, Kenneth, 3,426,556.
Petrie, Adelore F., to General Electric Company. Audio amplifier including class A driver and class B output stages. 3,454,889, 7-8-69, Cl. 330-15.
Petrie, Charles S.: *See*—
Robinson, Norman R.; Anley, Donald M.; and Petrie, Charles S.,3,438,582.
Petrie, Harold Lishman: *See*—
Salter, Roy; Petrie, Harold Lishman; and Williamson, Ian,3,450,595.
Petrie, James Alexander, to Rolls-Royce Limited. By-pass gas turbine engine. 3,434,288, 3-25-69, Cl. 60-226.
Petrie, James Alexander: *See*—
Steel, Thomas; Petrie, James Alexander; and Honey, Alfred John,3,438,400.
Wilde, Geoffrey Light; and Petrie, James Alexander,3,465,524.
Petrie, Robert M. Rope connector. 3,422,925, 1-21-69, Cl. 182-196.
Petrik, Albert V. Above-ground swiming-pool construction. 3,419,918, 1-7-69, Cl. 4-172.
Petrik, Dragan Rudolf. Underwater floating and to required level submerged tunnel composed from prefabricated tunnel units. 3,478,521, 11-18-69, Cl. 61-43.
Petrini, Albert A.: *See*—
Thomas, Neil L.; and Petrini, Albert A.,3,465,297.
Petrini, Guido: *See*—
Cavaterra, Enrico; Ferlazzo, Natale; and Petrini, Guido,3,446,833.
Fattore, Vittorio; Petrini, Guido; and Cavaterra, Enrico,3,474,042.
Petro, Geza, Jr., 1/3 each to Monoki, Tiberio, and Welsch, F. Daniel. Conveyor bucket with hydraulically-operated grille-like lid. 3,451,575, 6-24-69, Cl. 214-767.
Petro, John D.: *See*—
Hodgson, Robert F.; Petro, John D.; and Turko, John D.,3,481,364.
Petro Well Service, Inc.: *See*—
Ferguson, James D., 3,477,513.
Petro-Tex Chemical Corporation: *See*—
Bajars, Laimonis, 3,440,298.
Bajars, Laimonis, 3,442,968.
Banta, Edward M., 3,433,742.
Click, Gaylon T.; and Gray, James M., Jr., 3,466,707.
Karkalits, Olin C., Jr.; and Leatherwood, Clyde A., 3,426,093.
Karkalits, Olin C., Jr., 3,426,094.
Karkalits, Olin C., Jr., 3,433,850.
Kerr, Ralph O., 3,474,041.
Kerr, Ralph O., 3,484,384.
Kincaid, Jack M., 3,433,741.
Kincaid, Jack M., 3,440,168.
Manning, Harold E., 3,475,511.
Reed, Thomas G., Jr.; and Hinkson, Robert E., 3,442,737.
Rice, Billy D.; and Stadig, William P., 3,461,110.
Tschopp, Lloyd D.; Welch, Lester M.; and Woerner, Rudolph C., 3,474,155.
Tschopp, Lloyd D.; and Woerner, Rudolph C., 3,479,416.
Woerner, Rudolph C., 3,468,969.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., 3,420,911.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., 3,420,912.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., 3,428,703.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., 3,440,299.
Woskow, Marvin Z., 3,476,824.

Petrocarbon Developments Limited: *See—*
Charlesworth, Paul L.; and Haslam, Alan A., 3,433,027.
Petrocci, Alfonso N.; Prodo, Kenneth W.; Shay, Edward G.; and Wakeman, Reginald L., to Millmaster Onyx Corporation. Synergistic blends of microbiocidal quaternary ammonium compounds. 3,472,939, 10-14-69, Cl. 424-329.
Petrochemicals Company: *See—*
Mischel, Philip B., 3,473,912.
Petrochemicals Company, Inc.: *See—*
Mischel, Philip B.; and Patrick, John W., 3,485,580.
Passmore, James, 3,481,187.
Petroff, Merlin O., to Anocut Engineering Company. Control system for electrolytic machining apparatus. 3,433,728, 3-18-69, Cl. 204-224.
Petroff, Robert J. Intermittent mechanism and method of making the same. 3,456,529, 7-22-69, Cl. 74-817.
Petrohilos, Harry, to United Systems Corporation. Digital readout instrument employing a non-linear transducer and a linear potentiometer. 3,441,846, 4-29-69, Cl. 324-65.
Petrol Injection Limited: *See—*
Jackson, Harold Ernest, 3,431,900.
Petroleum Tool Research, Inc.: *See—*
Mohaupt, Henry H., 3,422,760.
Petrolite Corporation: *See—*
Annand, Robert R.; Redmore, Derek; and Rushton, Brian M., 3,450,646.
Annand, Robert R., 3,486,996.
Cheng, Jen-Pu; Hampton, John L.; and Wirtel, Arthur F., 3,481,870.
Dickson, Woodrow J.; and Jenkins, Fred W., 3,425,549.
Dickson, Woodrow J.; and Jenkins, Fred W., 3,454,380.
Heintzelman, William J.; and Naiman, Michael A., 3,437,623.
Rushton, Brian M., 3,445,441.
Stromberg, Verner L., 3,468,932.
Stromberg, Verner L.; and Guthrie, David B., 3,486,866.
Watson, Frederick D.; and Mayse, Weldon D., 3,458,429.
Winslow, Joseph D., Jr.; and Lucas, Roy N., 3,446,724.
Petron, Boris W.: *See—*
Reid, William G.; and Petron, Boris W.,3,428,516.
Petrone, Joseph V.: *See—*
Smith, Keith L.; and Petrone, Joseph V.,3,465,070.
Petropoulos, John Christos: *See—*
Koral, Jerry Norman; and Petropoulos, John Christos,3,451,955.
Megna, Ignazio Salvatore; and Petropoulos, John Christos,3,450,711.
Petropoulos, John Christos; and Di Leone, Roland Ralph, to American Cyanamid Company. N,N'-diallyl diimide of 1,2,3,4-cyclopentane- carboxylic acid. 3,444,184, 5-13-69, Cl. 260-326.3
Petropoulos, John Christos; and Koral, Jerry Norman, to American Cyanamid Company. Reaction product of alkylated hexamethylolmelamines and polyanhydrides. 3,422,076, 1-14-69, Cl. 260-78.4
Petros, Andrew J., Jr., to Mesta Machine Company. Fall-away spacer block. 3,475,940, 11-4-69, Cl. 72-239.
Petros, Andrew J.: *See—*
Stover, William L.; and Petros, Andrew J.,3,451,244.
Petrosjants, Anatoly Aramaisovich: *See—*
Dubrovin, Boris Nickolaevich; Fedorov, Boris Nickolaevich; Blekhman, Ilja Izrailevich; and Petrosjants, Anatoly Aramaisovich,3,467,318.
Petrosky, Willard L.: *See—*
Weeden, Frank G.; Pope, Gerald R.; Petrosky, Willard L.; and Murphee, Burleigh R.,3,435,853.
Petrova, Natalia Petrovna: *See—*
Kapitanov, Nikolai Nikolaevich; Petrova, Natalia Petrovna; and Jurasova, Nina Vasilievna,3,482,428.
Petrova, Valentina Vasilievna: *See—*
Bogdanov, Alexandr Antonovich; Pomazkova, Zinaida Serafimovna; Petrova, Valentina Vasilievna; and Zhilenko, Vasily Anatolievich,3,475,634.
Petrow, Henry George: *See—*
Allen, Robert J.; Novack, Robert Lee; and Petrow, Henry George,3,471,332.
Petrow, Henry George, to Prototech Company, division of Bolt Beranek and Newman Inc. Method of operating fuel cell including peroxide and cobalt containing electrolyte. 3,471,331, 10-7-69, Cl. 136-86.
Petrow, Valdimir; Burgess, Colin Michael; and Feather, Peter, to British Drug Houses Limited, The. 17α-Chloroethinyl-17β-hydroxy steroidal derivatives. 3,470,193, 9-30-69, Cl. 260-397.4
Petrow, Vladimir: *See—*
Burn, Derek; and Petrow, Vladimir,3,427,389.
Burn, Derek; Coombs, Robert Victor; and Petrow, Vladimir,3,442,891.
Ellis, Bernard; Feather, Peter; Mac Bride, Hugh; and Petrow, Vladimir,3,437,657.
Ellis, Bernard; Petrow, Vladimir; and Stanway, David Neil,3,478,069.
Feather, Peter; and Petrow, Vladimir,3,442,918.
Feather, Peter; and Petrow, Vladimir,3,442,919.
Feather, Peter; and Petrow, Vladimir,3,463,796.
Feather, Peter; and Petrow, Vladimir,3,463,797.
Kirk, David Neville; Petrow, Vladimir; Stansfield, Martin; and Williamson, David Morton,3,452,006.
Lester, Michael George; Stephenson, Oliver; and Petrow, Vladimir,3,463,776.
Petrow, Vladimir; Stephensn, Oliver; and Wild, Anthony Musgrave, to British Drug Houses Limited, The. Novel derivatives of 3-hydroxy-4-phenyl-butyric acid. 3,462,483, 8-19-69, Cl. 260-520.
Petruccelli, Thomas L., to Xerox Corporation. Work holder. 3,436,071, 4-1-69, Cl. 269-20.
Petrucci, Raymond Mark; and Barmore, Stephen Barrett, to American Machine & Foundry Company. Multicartridge filter. 3,442,390, 5-6-69, Cl. 210-323.
Petrucci, Raymond Mark; and Sicard, Marcel Clarence, to American Machine & Foundry Company. Filtration apparatus. 3,469,696, 9-30-69, Cl. 210-97.
Petrucelli, Robert Calwell: *See—*
Goldberg, Frederick I.; and Petrucelli, Robert Calwell,3,427,766.
Petrusha, John A.: *See—*
Talboom, Frank P., Jr.; and Petrusha, John A.,3,477,831.
Petrusson, Sigurdur G., to Danfoss Manufacturing Co., Ltd. Fluid-pressure equalizing and mixing valves. 3,469,595, 9-30-69, Cl. 137-100.
Petruzzi, Nicolino: *See—*
Jeantils, Claude; Grosclaude, Etienne; Garlot, Christian; and Petruzzi, Nicolino,3,459,761.
Petry, Gene A.; and Weingarten, Joseph L., to United States of America, Air Force. Expendable air cargo pallet. 3,429,536, 2-25-69, Cl. 248-119.
Petry, Henry Alfred, to Marotta Valve Corporation. Fluid pressure controller with adjusting means. 3,472,264, 10-14-69, Cl. 137-116.5
Petry, Marilyn Belle: *See—*
Petry, Marvin; and Petry, Marilyn Belle,3,463,504.
Petry, Marvin; and Petry, Marilyn Belle. Wheeled baby seat. 3,463,504, 8-26-69, Cl. 280-31.
Petry, Richard E., to Teletype Corporation. Gated switching circuit comprising parallel combination of latching and shunt switches series-connected with input-output control means. 3,439,189, 4-15-69, Cl. 307-252.
Petry, Robert C.; and Reed, Samuel F., Jr., to Rohm & Haas Company. Difluoroamino alkanols and their preparation. 3,439,039, 4-15-69, Cl. 260-584.
Pett, John F.: *See—*
Gray, Frank O.; and Pett, John F.,3,458,789.
Petterborg, Emil M. Sliding doors on single track. 3,425,160, 2-4-69, Cl. 49-127.
Petters, Claus: *See—*
Petters, Willi J.; and Petters, Claus,3,425,586.
Petters, Willi J.; and Petters, Claus, to Dynamit Nobel Aktiengesellschaft. Packaging container particularly for rockets or rocket-like missiles. 3,425,586, 2-4-69, Cl. 220-23.4
Petterson, Adolf Helmer. Feeding apparatus for ironing machines. 3,425,144, 2-4-69, Cl. 38-143.
Petterson, De Witt R.; and Smith, Delmont K., to Johnson & Johnson. Woven stretch fabric and methods of manufacturing the same. 3,438,842, 4-15-69, Cl. 161-77.
Petterson, Robert C., to Research Corporation. N-halo-N acylamides. 3,452,091, 6-24-69, Cl. 260-556.
Petterson, Robert C., to Research Corporation. 4-Halo-N-acylamides. 3,454,637, 7-8-69, Cl. 260-556.
Petterson, Robert C.; and Dimaggio, Anthony H., III, to Research Corporation. Synthesis of fluoroarenes. 3,481,850, 12-2-69, Cl. 204-163.
Petterson, Tor H.: *See—*
English, John A.; and Petterson, Tor H.,3,467,378.
Petterson, Victor S.: *See—*
Kenney, Norwood D.; and Petterson, Victor S.,3,482,033.
Petti, Joseph. Bowling aid device. 3,438,630, 4-15-69, Cl. 273-54.
Petti, Marie. Safety pin. 3,475,796, 11-4-69, Cl. 24-156.
Pettibone Mulliken Corporation: *See—*
La Tendresse, Philip E., 3,432,050.
Logus, Anthony T., 3,446,307.
Michaelson, Reynold R.; and LaTendresse, Philip E., 3,477,596.
Rhoads, Edwin E., 3,428,199.
Rhoads, Edwin Egbert, 3,472,397.
Pettibone, Raymond B., to Sperry Rand Corporation. Power transmission. 3,447,477, 6-3-69, Cl. 103-136.
Pettibone, Raymond B., to Sperry Rand Corporation. Power transmission. 3,451,346, 6-24-69, Cl. 103-136.
Pettibone, Raymond B., to Sperry Rand Corporation. Power transmission. 3,479,962, 11-25-69, Cl. 103-136
Pettibone, Raymond B., to Sperry Rand Corporation. Power transmission. 3,481,277, 12-2-69, Cl. 103-162.
Petticrew, Richard W., to Owens-Illinois, Inc. Surface treatment of glasses. 3,460,967, 8-12-69, Cl. 117-62.
Pettigrew, Carl K.; Siminski, Michael C., Jr.; and Swavely, Donald F., to Polymer Corporation, The, mesne. Apparatus for coating articles in a fluidized bed. 3,431,887, 3-11-69, Cl. 118-11.

Pettigrew, William S., to General Motors Corporation. Electrostatic spray coating method and apparatus therefor. 3,442,688, 5-6-69, Cl. 117i93.4
Pettinato, Edward F.: *See—*
Goodman, Abraham H.; Pettinato, Edward F.; Kroll, Alfred; and Lipka, David H.,3,475,182.
Pettinga, Paul V.: *See—*
Duckworth, Leonard J.; Pettinga, Paul V.; and McGowan, Patrick G.,3,471,299.
Pettis, Charles R., Jr., to Hi-Speed Checkweigher Co., Inc. Weighing system. 3,474,874, 10-28-69, Cl. 177-50.
Pettis, George H.: *See—*
Peterson, John L.; and Pettis, George H.,3,469,464.
Pettit, Frank P., to Projects General Corporation of America. Suspended monorail system. 3,446,158, 5-27-69, Cl. 104-95.
Pettit, Frank, to Richard Metals Corporation. Loose leaf binder and locking means therefor. 3,479,123, 11-18-69, Cl. 402-21.
Pettitt, Walter G.: *See—*
Haner, Robert B., Jr.; Sibley, Henry C.; Sutton, Paul C.; and Pettitt, Walter G.,3,435,223.
Petts, George E., III, to Westinghouse Electric Corporation. Electric pulse detecting circuit. 3,422,361, 1-14-69, Cl. 328-119.
Petts, Ronald G.: *See—*
Anderson, Lester F.; Parsons, George W.; and Petts, Ronald G.,3,430,038.
Petty Geophysical Engineering Company: *See—*
Forester, Robert D.; and Parr, Josephus O., Jr., 3,460,065.
Petty, Jack W. Metal recovery method. 3,463,632, 8-26-69, Cl. 75-83.
Petty, Jack W. Metal recovery method. 3,463,633, 8-26-69, Cl. 75-83.
Petty, John William Ledward, to National Research Development Corporation. Transmission system for interconnecting two rotary machines. 3,439,563, 4-22-69, Cl. 74-810.
Petty, Richard, to Kontes Glass Company. Electrode assembly including an elastomeric cap. 3,476,671, 11-4-69, Cl. 204-195.
Petyt, Colin Roderick, to Avery-Hardoll Limited, and Beck & Co. (Meters) Limited. Dispensing apparatus for a blend of two liquids with cost increment means. 3,429,480, 2-25-69, Cl. 222-26.
Petyt, Colin Roderick; and Phillips, Hugh Edmund, to Avery-Hardoll Limited, and Beck & Co. (Meters) Limited. Liquid dispensing apparatus. 3,420,409, 1-7-69, Cl. 222-26.
Petyt, Colin Roderick; and Phillips, Hugh Edmund, to Avery-Hardoll Limited, and Beck & Company (Meters) Limited. Liquid dispensing apparatus. 3,486,662, 12-30-69, Cl. 222-134.
Petz, Dave I. Row crop thinning implement. 3,452,821, 7-1-69, Cl. 172-6.
Petz, Karl: *See—*
Kaupp, Josef; and Petz, Karl,3,481,913.
Petze, Charles L., Jr., to Delaware Research & Development Corporation. Cable spacer. 3,456,066, 7-15-69, Cl. 174-146.
Petze, Charles L., Jr., to Delaware Research & Development Corporation. Cable guard. 3,460,787, 8-12-69, Cl. 248-60.
Petzold, Dieter, to Licentia Patent-Verwaltungs-G.m.b.H. Counter. 3,443,071, 5-6-69, Cl. 235-92.
Petzold, Max L.; Brooks, Thomas W.; and Bane, John M., Jr., to Calgon Corporation, mesne. Preparation of 6-amino-2,4-bis(dimethylamino)-s- triazine. 3,479,353, 11-18-69, Cl. 260-249.6
Petzschke, Erich W., to Manhattan Terrazzo Brass Strip Co., Inc. Method and apparatus for removing edge camber from strips. 3,438,231, 4-15-69, Cl. 72-160.
Peuchmaur, Alphonse: *See—*
Guillot, Claude; and Peuchmaur, Alphonse,3,442,060.
Peugh, James A. Multi-frequency phase shifter. 3,447,125, 5-27-69, Cl. 340-5.
Peurifoy, Paul V.; and Woods, Littleton A., to Shell Oil Company. Method and composition for detecting odors in gaseous fuels. 3,475,129, 10-28-69, Cl. 23-230.
Pevar, Maxwell. Method for detecting flaws, cracks and non-homogeneity in materials using combined penetrant and magnetic particle systems. 3,445,759, 5-20-69, Cl. 324-38.
Peveler, France D.: *See—*
Launder, Richard L.; and Peveler, France D.,3,429,381.
Launder, Richard L.; Launder, Ernie L.; and Peveler, France D.,3,429,380.
Pews, Richard Garth: *See—*
Roberts, Carleton W.; and Pews, Richard Garth,3,424,803.
Pewthers, Charles W. Vehicle with sliding and tilting bed. 3,485,400, 12-23-69, Cl. 214-505.
Peyches, Pierre Ivan: *See—*
Bourgeaux, Maurice; and Peyches, Pierre Ivan,3,437,469.
Peyer, Wilbur G.; and Ruspino, James G., to Whirlpool Corporation. Dishwasher apparatus. 3,421,704, 1-14-69, Cl. 241-46.11
Peyrade, Jean: *See—*
Michel, Jean-Marie; and Peyrade, Jean,3,487,037.
Peyrot, Jean-Pierre: *See—*
Foulquier, Henri; and Peyrot, Jean-Pierre,3,441,710.
Peyser, Harry A., to Continental Can Company, Inc. Easy opening container. 3,437,227, 4-8-69, Cl. 220-47.
Peyser, Henry A.; and Nivison, David J. Dental device. 3,468,030, 9-23-69, Cl. 32-34.
Peyser, Leonard F., to Machlett Laboratories, Incorporated, The. X-ray collimating device wherein a plurality of adjustable overlapping leaves define a collimating cone. 3,448,270, 6-3-69, Cl. 250-105.
Peytavin, Pierre: *See—*
Babel, Louis; and Peytavin, Pierre,3,430,684.
Pezdirtz, George F.: *See—*
Child, Edward T.; and Pezdirtz, George F.,3,459,827.
Pezdirtz, George F.; and Bell, Vernon L., Jr., to United States of America, National Aeronautics and Space Administration. Dosimeter for high levels of absorbed radiation. 3,450,878, 6-17-69, Cl. 250-83.
Pezza, Lazzaro, to Swabettes, Inc. Swab making machine. 3,449,796, 6-17-69, Cl. 19-145.3
Pezza, Lazzaro, to Baia Corporation. Packaging machine. 3,456,425, 7-22-69, Cl. 53-236.
Pfaar, Adam, to Rheinstahl Henschel A.G. Connecting joint for a steering arm and tie rods. 3,441,299, 4-29-69, Cl. 287-88.
Pfaff and Kendall: *See—*
Schlosser, Francis G., 3,458,184.
Pfaff, G. M., A.G.: *See—*
Hartmann, Werner; Schleede, Dietrich; and Schulde, Felix, 3,431,203.
Maschmann, Hans, 3,468,184.
Pfaff, G.M., AG.: *See—*
Kallert, Alfred; and Rascher, Konrad, 3,423,271.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, to Leybold-Heraeus-Verwaltung GmbH & Co., KG, mesne. Oil sealing of rotary piston vacuum pump. 3,458,120, 7-29-69, Cl. 230-145.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, to Leybold-Heraeus GmbH & Co., KG. Transmission drive for rotary piston vacuum pump. 3,459,367, 8-5-69, Cl. 230-145.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, to Leybold-Heraeus-Verwaltung GmbH. End face sealing in rotary piston vacuum pump. 3,463,385, 8-26-69, Cl. 230-145.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian, to Leybold-Heraeus-Verwaltung GmbH. Oil circulation in rotary piston vacuum pump. 3,463,387, 8-26-69, Cl. 230-207.
Pfaff, Helmuth, to United States of America, National Aeronautics and Space Administration. Swivel support for gas bearings. 3,463,563, 8-26-69, Cl. 308-2.
Pfaff, Herbert; Lasseur, Walter; and Hillebrand, Friedhelm, to Klockner-Werke AG. Bullet trapping assembly. 3,447,806, 6-3-69, Cl. 273-102.4
Pfaff, William A., to NB Jackets Corporation. Ultraviolet exposure duplicating machine for microfilm. 3,447,872, 6-3-69, Cl. 95-77.
Pfaff, William A. Machine for developing strip photographic film. 3,461,787, 8-19-69, Cl. 95-94.
Pfaff, William A. Flow camera. 3,462,218, 8-19-69, Cl. 355-50.
Pfaffenberger, Richard T.; and Van Horik, Leonard R. Roll welded structure and process. 3,453,717, 7-8-69, Cl. 29-423.
Pfaffenberger, Richard T.; and Van Horik, Leonard R., to McDonnell Douglas Corporation, mesne. Roll-welded ring forming process. 3,460,232, 8-12-69, Cl. 29-423.
Pfaffenberger, Richard T.; and Van Horik, Leonard R., to McDonnell Douglas Corporation, mesne. Roll-weld process for shape forming bodies of revolution. 3,460,233, 8-12-69, Cl. 29-423.
Pfaffle, Ernst, to Hans Sickinger Co. Method and apparatus for the perforation of edges of paper stacks. 3,459,074, 8-5-69, Cl. 77-22.
Pfaffle, Ernst; and Seufert, John L., to Sickinger, Hans, Co. North American Rockwell Corporation. Hole punching machine for paper sheets Radome strucural composite. 3,452,628, 7-1-69, Cl. 83-167.
Pfaffle, Merle L.: *See—*
Reid, Donald G.; and Pfaffle, Merle L.,3,480,068.
Pfaffman, George D.; and Armstrong, Robert G., to Park-Ohio Industries, Inc. Apparatus for hardening gear teeth. 3,446,495, 5-27-69, Cl. 266-4.
Pfagg, G. M., AG: *See—*
Wenz, Herbert; and Jehle, Fritz, 3,455,259.
Pfahler, Lloyd L., 1/2 to Savko, Nicholas M. Disposable beverage container with built-in sipping tube. 3,486,679, 12-30-69, Cl. 229-7.
Pfahning, Jerome E. Masonry wall joist hanger. 3,420,560, 1-7-69, Cl. 287-127.
Pfander, Hans; Schulz, Egon; and Wirth, Anton, to International Standard Electric Corporation. Semiconductor device with an insulating body interposed between a semiconductor element and a part of a casing. 3,471,752, 10-7-69, Cl. 317-234.
Pfann, William G.: *See—*
Arthur, John R., Jr.; Morton, Jack A.; Pfann, William G.; and Wagner, Richard S.,3,466,485.
Pfann, William G., to Bell Telephone Laboratories, Incorporated. Zone melting. 3,423,189, 1-21-69, Cl. 23-301.
Pfannenschmidt, Otto: *See—*
Knobloch, Peter; Kuhn, Adalbert; Pfannenschmidt, Otto; and Schneider, Werner,3,435,534.

Pfanzelt, Josef. Adjustable inductive apparatus. 3,437,969, 4-8-69, Cl. 336s134.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Weft thread supply and storage apparatus for gripper shuttle looms. 3,425,462, 2-4-69, Cl. 139-122.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Warp let-off motion. 3,426,806, 2-11-69, Cl. 139-101.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Loom. 3,426,807, 2-11-69, Cl. 139-122.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Cloth motion in looms. 3,428,095, 2-18-69, Cl. 139-304.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Temple for looms. 3,446,250, 5-27-69, Cl. 139-294.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Shaft coupling. 3,466,896, 9-16-69, Cl. 64-27.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Warp yarn stretching apparatus. 3,483,897, 12-16-69, Cl. 139-98.
Pfarrwaller, Erwin; and Brun, Anatole, to Sulzer Brothers Limited. Intermediate weft thread supply apparatus for looms. 3,455,341, 7-15-69, Cl. 139-122.
Pfau, Jean; Rhyner, Heinz; and Semon, Georges, to Ateliers des Charmilles S.A. Method and apparatus for controlling the flow of liquid through spark-machining gaps. 3,454,737, 7-8-69, Cl. 219-69.
Pfauder, Ritter Corporation: *See*—
Kotarski, Lester R., 3,443,449.
Pfeffer, David. Jeweler's vise. 3,477,707, 11-11-69, Cl. 269-219.
Pfeffer, John W.; and Mc Kinney, Dorsey L., to Washington Chain of Spokane, Inc. Chain saw tooth. 3,467,155, 9-16-69, Cl. 143-135.
Pfefferle, George H., to Dresser Industries, Inc. Apparatus for and method of mining subterranean ore deposit. 3,439,953, 4-22-69, Cl. 299-17.
Pfefferle, William C., to Engelhard Industries, Inc. Process for producing hydrogen. 3,481,722, 12-2-69, Cl. 48-214.
Pfeifer, Arthur F.: *See*—
Polkinghorn, Robert W.; and Pfeifer, Arthur F.,3,480,796.
Pfeifer, Donald C., to Perfection Automotive Products Corporation. Automotive warning switch. 3,428,767, 2-18-69, Cl. 200-61.89
Pfeifer, Friedrich: *See*—
Assmus, Fritz; Boll, Richard; Detert, Klaus; Ganz, Dietrich; Ibe, Gerhard; and Pfeifer, Friedrich,3,466,201.
Pfeifer, Karl, to VEB Carl Zeiss Jena. Devices for compensating temperature-dependent traveling of spectrum lines in direct-reading spectroscopes. 3,430,056, 2-25-69, Cl. 250-226.
Pfeifer, Karl; Bretschneider, Gunther; Schwarz, Rudolf; and Laun, Karl, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of silicas suitable for matting of lacquers and plastic materials. 3,472,459, 10-14-69, Cl. 241-19.
Pfeifer, Louis: *See*—
Klumpp, Ferdinand, Jr.; and Pfeifer, Louis,3,443,542.
Pfeifer, Oliver W.; and Shannon, Richard F., to Owens-Corning Fiberglas Corporation. Reinforcement of lower density inorganic structures. 3,472,668, 10-14-69, Cl. 106-99.
Pfeifer, Oliver W.; and Taylor, William C., to Owens-Corning Fiberglas Corporation. Refractory bodies with thermal barrier adhesive coatings and method therefor. 3,468,750, 9-23-69, Cl. 161-191.
Pfeifer, William: *See*—
Mills, Jack; and Pfeifer, William,3,422,153.
Pfeiffer, Aelred J.; and Marz, Louis R., to Amana Refrigeration, Inc. Meat keeper for refrigerators. 3,473,345, 10-21-69, Cl. 62-408.
Pfeiffer, Albert; Cogswell, Richard V.; Lynch, Charles W.; and Kunert, Herbert B., to United States of America, Army. Apparatus and method for blowing powder. 3,478,926, 11-18-69, Cl. 222-1.
Pfeiffer, Arnold: *See*—
Kobusch, Helmut; Grune, Johannes; and Pfeiffer, Arnold,3,459,209.
Pfeiffer, Arthur, Hochvakuumtechnik G.m.b.H.: *See*—
Becker, Willi, 3,477,381.
Pfeiffer, Erich; and Pilz, Alfred, to Ing. Erich Pfeiffer KG, Firma. Simply operating push plunger pump housed in a container. 3,463,093, 8-26-69, Cl. 103-188.
Pfeiffer, Fred B.: *See*—
Davis, Harry E.; and Pfeiffer, Fred B.,3,477,191.
Pfeiffer, Gene F.: *See*—
Katz, Friedrich J.; Pfeiffer, Gene F.; and Sorenson, Charles E.,3,443,756.
Pfeiffer, Harry O.: *See*—
Penix, Ermal E.; and Pfeiffer, Harry O.,3,476,197.
Pfeiffer, Heinrich, to Dieffenbacher, J., GmbH. Press. 3,453,950, 7 8-69, Cl. 100-93.
Pfeiffer, Helmut. Stringed instrument. 3,464,304, 9-2-69, Cl. 84-215.
Pfeiffer, Horst: *See*—
Vogel, Manfred Georg Roland; and Pfeiffer, Horst,3,451,620.
Pfeiffer, John David, to Beloit Eastern Corporation. Hardness tester. 3,425,267, 2-4-69, Cl. 73-78.
Pfeiffer, Philip W.: *See*—
Schwartz, Robert A. D.; and Pfeiffer, Philip W.,3,480,246.
Pfeiffer, Robert W.; and Garrett, Luther W., Jr., to Pullman Incorporated. Method for carrying out gas-solids reactions. 3,421,884, 1-14-69, Cl. 71-100.
Pfeiffer, William E., to Farm Fans, Inc. Batch timer. 3,435,247, 3-25-69, Cl. 307-38.
Pfeiffer, William E., to Farm Fans, Inc. Vaporizer. 3,467,480, 9-16-69, Cl. 431-41.
Pfeiffer, William E., to Farm Fans, Inc. Grain drying apparatus. 3,470,626, 10-7-69, Cl. 34-46.
Pfeiffer, Willi: *See*—
Winter, August; Mann, Egon; Pfeiffer, Willi; and Arnegger, Wilhelm,3,433,087.
Pfeil, Richard: *See*—
Fries, Heinrich; and Pfeil, Richard,3,459,412.
Pfeiler, William A.; and Valentine, Charles K., to United States of America, Atomic Energy Commission. Hot-isostatic-pressing apparatus. 3,419,935, 1-7-69, Cl. 18-5.
Pfenning, Emil, to Mannesmann Aktiengesellschaft. Liquid-cooled plate mold for continuous casting of high-melting metals. 3,473,601, 10-21-69, Cl. 164-283.
Pfenninger, Heinz A. Certain N-(benzenesulfonyl) pipecolinic acids and lower alkyl esters thereof. 3,424,749, 1-28-69, Cl. 260-243.4
Pfenninger, Heinz A., to Geigy Chemical Corporation. Certain 2-pyridyl-substituted indole derivatives. 3,468,894, 9-23-69, Cl. 260-294.8
Pfenninger, Heinz A.: *See*—
Doebel, Karl J.; and Pfenninger, Heinz A.,3,483,187.
Pfenninger, Roger. Magnetically operated racing boat game. 3,471,151, 10-7-69, Cl. 273-86.
Pferdehirt, Thomas A.: *See*—
Juhola, Arvo J.; and Pferdehirt, Thomas A.,3,438,884.
Pfirrmann, Rolf Wilhelm, to Geistlich, Ed., Sohne AG fur Chemische Industrie. Perhydro-1,2,4-thiadiazinedioxides-(1,1) and their preparation. 3,423,408, 1-21-69, Cl. 260-243.
Pfister, Franz: *See*—
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz,3,466,968.
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz,3,466,969.
Pfister, Franz, to Bolkow Gesellschaft mit beschrankter Haftung. Mechanism for locking a missile retainer to a launching apparatus. 3,459,100, 8-5-69, Cl. 89-1.8
Pfister, Marcel C. Electrical weigher with control circuitry for supplying digital information to utilization device. 3,458,001, 7-28-69, Cl. 177-3.
Pfister, Rudolf; Sallmann, Alfred; and Hammerschmidt, Winrich, to Geigy Chemical Corporation. Substituted malonic acid monohydrazides. 3,455,999, 7-15-69, Cl. 260-518.
Pfister, Stanley A.: *See*—
Ma, Carlton Y. W.; and Pfister, Stanley A.,3,478,513.
Pfister, Xaver, to Sandoz Ltd., a/k/a Sandoz A.G. Benzoylaminoanthraquinones. 3,436,401, 4-1-69, Cl. 260-326.
Pfister, Xaver; and Steiner, Karl Ulrich, to Sandoz Ltd., a/k/a Sandoz A.G. Perinone dyes. 3,428,637, 2-18-69, Cl. 260-251.
Pfisterer, Erwin; and Strohm, Siegfried, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Automatic change speed transmission. 3,435,713, 4-1-69, Cl. 74-866.
Pfisterer, Erwin: *See*—
Strohm, Siegfried; and Pfisterer, Erwin,3,460,406.
Pfitzner, Ulrich; and Bantle, Kurt, to Siemens Aktiengesellschaft. Modulator construction system for logic circuits and the like. 3,473,568, 10-21-69, Cl. 137-608.
Pfizer, Chas., & Co., Inc.: *See*—
Adler, Arthur, 3,421,885.
Austin, William C.; Conover, Lloyd H.; McFarland, James W.; and Morgan, Derek H., 3,458,633.
Beereboom, John J., 3,446,630.
Beereboom, John J., 3,471,618.
Beereboom, John J., Jr.; and Buckley, Jay S., Jr., 3,438,882.
Bennetch, Leonard M., 3,443,977.
Bloom, Barry M.; and Tretter, James R., 3,420,851.
Brooks, Owen E.; and Nubel, Robert C., 3,476,366.
Crawford, James G., 3,456,053.
Geminder, John J.; and Hetzel, Carl P., 3,464,829.
Gildersleve, David R.; and Tute, Michael S., 3,437,662.
Gildersleve, David R.; and Tute, Michael S., 3,455,993.
Goldman, Irving M., 3,444,173.
Goldman, Irving M., 3,483,198.
Hess, Hans-Jurgen E., 3,422,083.
Hobbs, Donald C., 3,450,687.
Holland, Gerald F., 3,435,115.
Holland, Gerald F., 3,448,107.
Hull, Ezekiel H., 3,484,478.
James, Michael, 3,426,949.
Johnston, James D., 3,479,343.
Johnston, James David, 3,433,871.
Johnston, James David, 3,471,492.
Johnston, James David, 3,474,097.
Johnston, James David, 3,480,713.
Johnston, James David, 3,485,836.

Kardys, Joseph A., 3,477,962.
Korst, James J., 3,444,198.
Korst, James J., 3,484,483.
Leebrick, John R., 3,445,249.
McFarland, James W., 3,476,768.
McLamore, William M.; and Laubach, Gerald D., 3,440,244.
McLamore, William M.; and Laubach, Gerald D., 3,480,652.
McManus, James M.; and Koe, Billie Kenneth, 3,459,767.
Miller, Max W., 3,479,367.
Miller, Max W., 3,483,212.
Morris, Thomas A., Jr.; and Tate, Bryce E., 3,444,143.
O'Donnell, Alvin J., 3,458,572.
Orlemann, Justus K., 3,425,813.
Penicnak, Adrian J., 3,438,866.
Putnam, Carl O., 3,454,639.
Rao, Koppaka V.; Marsh, William S.; and Renn, Donald W., 3,423,398.
Schneider, Paul, 3,482,942.
Seeley, Donald B., 3,483,088.
Sellers, Robert S.; Nubel, Robert C.; and Fitts, Robert A., 3,461,035.
Senatore, Peter J., 3,449,451.
Stephens, Charles R., Jr.; and Allingham, Robert P., 3,440,183.
Stephens, Charles R., Jr.; and Allingham, Robert P., 3,446,629.
Tate, Bryce E., 3,468,915.
Tate, Bryce E.; and Allingham, Robert P., 3,468,916.
Turkat, Michael; and Robba, William A., 3,442,617.
Warren, Joel; Neal, Alan L.; and Rennels, David A., 3,470,067.

Pflaumer, Peter E.: *See—*
Burgess, John R.; and Pflaumer, Peter E.,3,430,104.

Pflaumer, Phillipo3 Filcik, Julius P., to Procter & Gamble Company, The. Process for separating ethane-1-hydroxy-1,1- diphosphonic acid from a solution of it in an organic solvent which also contains oxyacids of phosphorus. 3,484,480, 12-16-69, Cl. 260-502.4

Pfleger, Frederick W. Combination counter-timer. 3,433,405, 3-18-69, Cl. 235-91.

Pfleger, Frederick W. Multiposition push-button switch. 3,435,167, 3-25-69, Cl. 200-156.

Pfleger, Frederick W. Decoding system and method. 3,465,330, 9-2-69, Cl. 340-347.

Pfleger, Robert; Bertholdt, Heinz; and Schulz, Wolfram, to Chemische Fabrik Dr. R. Pfleger. Certain azoniaspironortropine derivatives. 3,480,626, 11-25-69, Cl. 260-247.2

Pfleghaar, Anton, to Motoren-Werke Mannheim A.G., Vorm. Benz Abt. Stat. Motorenbau. Internal combustion engine cylinder head. 3,447,524, 6-3-69, Cl. 123-189.

Pfleiderer, Friedrich; Mertel, Heinz; Hoffmann, Erik; and Seidel, Ekkehard, to Siemens Aktiengesellschaft. Long distance telephone system. 3,428,753, 2-18-69, Cl. 179-18.

Pfleiderer, Friedrich; and Schlichte, Max, to Siemens Aktiengesellschaft. TDM system with means for crosstalk reduction by changing the slot positions of the channels after each frame period. 3,433,899, 3-18-69, Cl. 179-15.

Pflieger, Charles W. Control for heat transfer system. 3,433,029, 3-18-69, Cl. 62-160.

Pflieger, Orin L.: *See—*
Acton, Daniel D.; and Pflieger, Orin L.,3,466,731.

Pflueger Corporation: *See—*
Hardesty, Benjamin T.; and Sarah, Thomas F., 3,468,052.
Sarah, Thomas F., 3,447,760.

Pflueger, Phillip G.: *See—*
Clites, Roy J.; and Pflueger, Phillip G.,3,454,904.

Pflueger, Richard: *See—*
Wilhelm, Hans; Mueller, Gerhard; Pflueger, Richard; and Doerfel, Helmut,3,458,474.

Pfluger, Helmuth L.: *See—*
Hoyt, Howard E.; and Pfluger, Helmuth L.,3,442,674.

Pfluger, Richard A.; Schulman, Marvin; and Hertzendorf, Martin S., to General Foods Corporation. Freeze-drying of foamed aromatic material. 3,482,990, 12-9-69, Cl. 99-71.

Pflugfelder, Bernard H., to Societe Nationale des Petroles d'Aquitaine.Process for the preparation ofα-dithiols. 3,422,150, 1-14-69, Cl. 260-609.

Pfoertner, Rolf. Elastomeric traction link element. 3,431,961, 3-11-69, Cl. 152-222.

Pfoff, G. M., A.G.: *See—*
Meier, Willi, 3,479,977.

Pfrank, James Francis; Kilgard, Walter W.; and Norcross, Harold W., to Amsted Industries, Incorporated. Chain and sprocet drive. 3,448,629, 6-10-69, Cl. 74-229.

Pfrehm, Raymond H., to Esso Research and Engineering Company. Modified turbine mass flow meter. 3,430,489, 3-4-69, Cl. 73-231.

Pfrommer, Gustav: *See—*
Brand, Guenter; and Pfrommer, Gustav,3,435,264.

Pfugfelder, Bernard; Benne, Georges; and Cazajous, Claude, to Societe Nationale des Petroles d'Aquitaine. Preparation of alkylenes monothiocarbonates. 3,437,666, 4-8-69, Cl. 260-327.

Pfund, Adolf: *See—*
Jonas, Walter; and Pfund, Adolf,3,435,988.

Pfund, Charles E.: *See—*
Dawson, John W., 3,434,108.

Pfund, Charles E. Automobile theft alarm. 3,425,033, 1-28-69, Cl. 340-64.

Pfund, Charles E. Automobile light signalling device. 3,434,107, 3-18-69, Cl. 340-74.

Pfund, Robert J. Game apparatus having reversible goal means. 3,423,090, 1-21-69, Cl. 273-85.

Pfyffer, Hans Karl; and Whitbread, John Raymond, to General Electric Company, Limited, The. Line communications system including an electric amplifier composed of similar transistors. 3,424,858, 1-28-69, Cl. 179-170.

Phadke, Arun G., to Allis-Chalmers Manufacturing Company. AC-DC converter responsive to a single signal in the AC system. 3,465,234, 9-2-69, Cl. 321-5.

Phaff, G.M., A.G.: *See—*
Schneider, Franz, 3,431,874.

Phaneuf, Charles H.: *See—*
Beyer, Gerald E.; and Phaneuf, Charles H.,3,456,572.

Phantom Products: *See—*
Gayle, Robert E., 3,434,726.

Phantom Products, a division of Pflueger Corporat ion: *See—*
Gayle, Robert E., 3,424,412.

Phares & Wilkins Manufacturing Company: *See—*
Phares, Howard L., 3,451,200.

Phares, Howard L., to Phares & Wilkins Manufacturing Company. Cotton harvester with floating gatherer. 3,451,200, 6-24-69, Cl. 56-33.

Pharis, Joe M., to Universal Oil Products Company. Selective catalytic dehydrogenation of a mixture of normal paraffin hydrocarbons. 3,456,031, 7-15-69, Cl. 260-683.3

Pharis, William W.: *See—*
Pearce, James G.; and Pharis, William W.,3,436,733.
Pearce, James G.; and Pharis, William W.,3,485,955.
Pearce, James G.; Pharis, William W.; and Schneider, Gerhard O. K.,3,487,170.

Pharis, William W., to Stromberg-Carlson Corporation. Prepay coin adapter. 3,449,524, 6-10-69, Cl. 179-6.3

Pharis, William W.; and Neumeier, Guenther F., to Stromberg-Carlson Corporation. Pay station collect and return system. 3,456,081, 7-15-69, Cl. 179-6.3

Pharmacia Fine Chemicals AB: *See—*
Emneus, Nils Ingvar Arne; Gelotte, Erik B.; Rehn, Nils G.; and Soderqvist, Bjorn G. F., 3,476,737.
Sten, Arne O., 3,467,595.

Pharmexbio A.G.: *See—*
Joss, Alfred, 3,468,760.

Pharr, Mark R., Jr.: *See—*
Wilson, Robert G.; and Pharr, Mark R., Jr.,3,480,753.

Pharr, Roger H.: *See—*
Groover, Edwin F.; Reid, Guy T.; Wood, John H.; Pharr, Roger H.; and Mize, Charles A.,3,474,490.

Pharr Yarns, Inc.: *See—*
Chamberlain, Julius J., Jr.; and Botts, Kenneth C., 3,469,387.

Phelan, Louis, A. M.: *See—*
Cadman, Harold O., 3,479,957.
Cadman, Harold O., 3,479,961.

Phelan, Louis A. M. Machine for making frozen confection. 3,464,220, 9-2-69, Cl. 62-342.

Phelan-Faust Paint Manufacturing Company: *See—*
Weber, Fred C., Jr., 3,450,295.

Phelon, R. E., Company, Inc.: *See—*
Burson, Bob O., 3,465,739.
Piteo, Michael J., 3,447,521.
Piteo, Michael J., 3,484,677.

Phelon, R. I., Inc.: *See—*
Piteo, Michael J., 3,439,253.

Phelps, Brian: *See—*
Chapman, Edwin Albert; Bartlett, Ronald Leonard; and Phelps, Brian,3,466,417.

Phelps, Calvert M., to Commonwealth Pencil Company, Inc. Pencil dividing device. 3,470,774, 10-7-69, Cl. 82-46.

Phelps, Charles G.: *See—*
Sullivan, Francis G.; Phelps, Charles G.; and Troyer, William J.,3,457,624.

Phelps, Charles W.; Morgan, Bert M.; and Buck, Ronald F., to General Motors Corporation. Mass centering apparatus with means to sense mass displacement from the center of gravity and servo recentering. 3,436,626, 4-1-69, Cl. 318-18.

Phelps Dodge Copper Products Corporation: *See—*
Behrsin, Kurt R., 3,455,374.
McKean, Alexander L., 3,427,394.
Yearley, Douglas C., 3,486,550.

Phelps Dodge Corporation: *See—*
Griffith, William Alexander; Link, Paul Eugene; and Burns, Benny Ray, 3,464,272.

Phelps Dodge Refining Corporation: *See—*
Bell, Marion S.; Montrose, Anthony Alan; and Spoon, Bill Hugh, 3,430,479.

Phelps, Donald E.: *See—*
Beltz, John P.; and Phelps, Donald E.,3,465,130.

Phelps, Frederick L., Jr.: *See—*
Kompanek, Andrew J., Jr.; Phelps, Frederick L., Jr.; and Klotz, James M.,3,423,229.
Phelps, Harold E.; and Dickie, Howard B., to Phelps, Harold, Inc. Fuel feeding system. 3,455,283, 7-15-69, Cl. 123-119.
Phelps, Harold, Inc.: *See—*
Phelps, Harold E.; and Dickie, Howard B., 3,455,283.
Phelps, James W.: *See—*
Langmack, Robert M.; Phelps, James W.; and Woodard, Daniel P.,3,454,707.
Phelps, John T. Combined sanitary pad and catamenial tampon. 3,420,234, 1-7-69, Cl. 128-285.
Phelps, Joseph F.: *See—*
New, Truman L.; and Phelps, Joseph F.,3,423,109.
Phelps, Malcolm T.; and Little, Carl H., to Weber-Knapp Company. Platform elevation control mechanism. 3,431,040, 3-4-69, Cl. 312-272.
Phelps, Malcom T., to Weber-Knapp Company. Hinge motion control mechanism. 3,457,584, 7-29-69, Cl. 16-190.
Phelps, Marion E.: *See—*
Gregorich, Henry L.; Jones, Clevoe D.; and Phelps, Marion E.,3,477,250.
Phelps, Morton E.; and Bell, Tommy O., to Sifon Corporation, The. Apparatus for spraying minute quantities of a liquid dispersed in air. 3,421,695, 1-14-69, Cl. 239-164.
Phelps, Morton E.; and Bell, Tommy O. Liquid spray-control device. 3,434,496, 3-25-69, Cl. 137-561.
Phelps, Morton E.; and Bell, Tommy O. Surge chamber. 3,447,557, 6-3-69, Cl. 137-207.
Phelps, Morton F.; and Phelps, William D., Jr. Tree shaker head. 3,420,044, 1-7-69, Cl. 56-328.
Phelps, Richard W., to Black Clawson Company, The. Method and apparatus for stopping the rotation of a fully wound roll of web material. 3,471,097, 10-7-69, Cl. 242-56.
Phelps, Robert E.: *See—*
Kaszynski, Albert Z.; and Phelps, Robert E.,3,422,423.
Phelps, Vernon A., to Hoover Ball and Bearing Company. Apparatus for finishing endless metallic belts. 3,434,240, 3-25-69, Cl. 51-5.
Phelps, William D., Jr.: *See—*
Phelps, Morton F.; and Phelps, William D., Jr.,3,420,044.
Phemister, Virgil H. Extension devices. 3,474,699, 10-28-69, Cl. 84-453.
Phibbs, Clifton E. Laundry carryall or totebasket. 3,433,383, 3-18-69, Cl. 220-8.
Phil-X: *See—*
Neri, Vincenzo, 3,430,042.
Philadelphia Handle Company, Inc.: *See—*
Bush, George W., 3,431,586.
Bush, George W., 3,447,193.
Bush, George W., 3,447,194.
Bush, George W., 3,447,195.
Szabo, Marton, 3,426,384.
Szabo, Marton, 3,447,196.
Szabo, Marton, 3,447,197.
Szabo, Marton, 3,479,702.
Philadelphia Insulated Wire Company: *See—*
Rogers, Gerson George, 3,463,871.
Philadelphia Quartz Company: *See—*
Sams, Robert H.; and McCready, Newton W., 3,450,547.
Sams, Robert H.; and McCready, Newton W., 3,466,221.
Von Freyhold, Helmut, 3,475,185.
Weldes, Helmut Hans Wilhelm; and Netting, David I., 3,453,122.
Philamon Incorporated: *See—*
Grib, Boris F., 3,480,809.
Philamon Laboratories, Inc.: *See—*
Grib, Noris F.; and Shreve, Robert R., 3,425,310.
Philbert, Michel Eric Charles, to Office National d'Etudes et de Recherches Aerospatiales, (O.N.E.R.A.). Device for the analysis of phenomena involving variations in optical path length. 3,431,352, 3-4-69, Cl. 178-6.
Philco-Ford Corporation: *See—*
Angelucci, Louis J., Jr., 3,428,454.
Bains, William R., 3,421,324.
Berenbaum, Arthur; and Shelby, Rufus F., 3,447,386.
Berenbaum, Arthur, 3,447,387.
Beres, John F., 3,447,094.
Beres, John F., 3,452,282.
Bogert, Howard Z.; and Miner, Jay G., 3,447,136.
Bogert, Howard Z.; and Miner, Jay G., 3,453,601.
Bowes, John D., Jr., 3,482,251.
Brown, Paul M.; Hopper, Nolan D.; Kampf, Richard S.; and Lord, Walter V., 3,446,134.
Butera, Gasper A., 3,486,223.
Camack, Walter G., 3,461,295.
Caracciolo, Edward A., 3,431,637.
Castillo, Tomas R.; and Roberts, Fred M., 3,420,475.
Dunkle, Richard B., 3,453,501.
Forkner, John F., 3,434,073.
Frank, Edward; and Bray, Ralph, 3,431,787.
Guimento, Angelo; and Kitzmiller, Charles T., 3,445,659.
Harmon, Richard C., 3,445,770.
Harris, Joseph Earl, Jr., 3,459,923.
Heesh, David W., 3,482,113.
Hoke, Leander H., Jr., 3,447,092.
Hubbard, James R.; and Reid, John B., 3,464,239.
Johnston, Henry E.; and Simmons, Robert C., 3,445,803.
Keiper, Francis P., Jr.; and Comeau, Charles P., 3,484,622.
Lancaster, William W., 3,457,514.
Laschenski, Joseph E., 3,477,726.
Luce, Robert L., 3,469,308.
Marks, Bruce G.; and Revesz, George, 3,441,334.
Marks, Bruce G., 3,445,672.
Marks, Bruce G., 3,461,342.
Meier, Rudolf H., 3,446,980.
Miner, Jay G., 3,474,439.
Moulton, Stephen W., 3,422,270.
Nice, Nathan C., 3,432,803.
Norman, Robert H.; and Stephenson, Homer E., 3,454,785.
Parstorfer, John, 3,429,788.
Partin, Melvin E.; and Ett, Allen H., 3,426,325.
Partin, Melvin E., 3,469,238.
Pugliarissi, Andrew S., 3,467,599.
Reed, Frank J., 3,430,033.
Reid, John B., 3,466,901.
Snyder, Carl R.; and Binelli, Walter D., 3,445,786.
Springer, Joseph F., Jr., 3,446,973.
Standeven, Joseph David; and Stauffer, Thomas A., 3,461,314.
Steele, Robert W., 3,437,761.
Taylor, Donald R., Jr., 3,441,724.
White, Matthew B., 3,473,031.
Wilcox, Jack 'E', 3,448,451.
Wolfe, Paul G., 3,443,029.
Philen, Otis D., Jr.; Silverberg, Julius; and Norton, Melvin, to Tennessee Valley Authority. Fertilizers containing micro- and macronutrients. 3,423,199, 1-21-69, Cl. 71-1.
Philip Carey Corporation: *See—*
Ermenc, Eugene D.; and Smith, Marion F., 3,456,931.
Philip Morris Incorporated: *See—*
Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L., 3,449,093.
Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L., 3,449,094.
Braginetz, Paul A., 3,444,990.
Fischl, Robert A., 3,486,229.
Hind, John D.; and Seligman, Robert B., 3,420,241.
Hind, John D., 3,425,425.
Hind, John D.; and Seligman, Robert B., 3,435,829.
Hind, John D., 3,483,874.
Inskeep, George Esler, 3,484,322.
Licis, Osvalds F., 3,431,915.
Licis, Osvalds F., 3,477,440.
Silberman, Henri C., 3,459,195.
Philipp, Christian, to VEB Elektromaschinenbau Sachsenwerk: Process and device for making stator and rotor plates for electromotors of limited size. 3,460,415, 8-12-69, Cl. 83-27.
Philipp, Gabriel. Data retrieval system. 3,457,010, 7-22-69, Cl. 353-26.
Philipp, Herbert: *See—*
Buttner, Gerhard; Bushmann, Klaus; Papke, Wolfgang; and Philipp, Herbert,3,444,328.
Philipp, William C., to Hutchison Manufacturing Company. Mounting device. 3,432,127, 3-11-69, Cl. 248-15.
Philipp, Wolfgang: *See—*
Gey, Werner; Philipp, Wolfgang; Dittrich, Ewald; Corsepius, Horst; and Bonders, Peter,3,451,900.
Philippe, Jean: *See—*
Giolito, Francois; and Philippe, Jean,3,429,816.
Philippi, George J.; and Rosnick, Albert L., to Johnson & Johnson. Splicing device and resulting product. 3,434,907, 3-25-69, Cl. 156-505.
Philippot, Rene; and Richard, Maurice, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Device for fixing a cylindrical part in its housing. 3,443,848, 5-13-69, Cl. 308-236.
Philipps, Bruce Allan: *See—*
Vertesi, Tibor Miklos; and Philipps, Bruce Allan,3,480,211.
Philipps, David J.; and Lamphere, David A., to Simmond Precision Products, Inc. Capacitance-type fluid measuring apparatus. 3,478,587, 11-18-69, Cl. 73-304.
Philipps, Edward J.; and Martin, Joseph, to Foster Wheeler Corporation. Welding apparatus. 3,439,856, 4-22-69, Cl. 228-48.
Philipps, Reinhard, to Aktiengesellschaft Brown, Boveri & Cie. Reversible current converter for selective direction of current flow through D.C. load and including choke coil with unidirectional current flow. 3,422,338, 1-14-69, Cl. 321-5.
Philips Corporation: *See—*
Brockmann, Hans-Jurgen, 3,440,479.
Philips, Donald K., to Sterling Drug Inc. 15,16-Unsaturated 19-norsteroids and their preparation. 3,475,463, 10-28-69, Cl. 260-397.4

Philips Electronics and Pharmaceutical Industries Corporation: *See*—
Poen, Ong Sing, 3,471,694.
Philips, James F. Sparking hammer. 3,435,554, 4-1-69, Cl. 46-10.
Philips, Joel M., to Advance Silk Thread Corp. Smooth tension sewing machine bobbin case and bobbin. 3,437,284, 4-8-69, Cl. 242-137.1
Philipsen, Richard D.; and Starr, Kenneth E., to Caterpillar Tractor Company. Reversible cooling fan. 3,452,820, 7-1-69, Cl. 170-160.59
Phillip, Fritz: *See*—
Horn, Lutz; Phillip, Fritz; and Haake, Heinz,3,442,717.
Phillip. Hubert C.; and Nunnelley, William B. Apparatus for grouping triangular roof trusses for banding. 3,486,638, 12-30-69, Cl. 214-7.
Phillip, John A. Gas and liquid fuel burning heater. 3,437,086, 4-8-69, Cl. 126-85.
Phillipps, Gordon Hanley: *See*—
Gale, Ann; and Phillipps, Gordon Hanley,3,450,697.
Smith, Gerald Arthur; and Phillipps, Gordon Hanley,3,476,780.
Phillipps, Gordon Hanley, to Glaxo Laboratories Limited. Process for the preparation of 3-oxo- 4,6-dehydro-19-nor-steroids. 3,445,487, 5-20-69, Cl. 260-397.3
Phillips, Adolph. Semipermanent readout depth recorder. 3,430,251, 2-25-69, Cl. 346-21.
Phillips, Alonzo W.: *See*—
Moreland, William R.; and Phillips, Alonzo W.,3,428,795.
Phillips, Alvin B., to Motorola, Inc. Semiconductor device. 3,476,618, 11-4-69, Cl. 148-175.
Phillips, Benjamin A.; and Roeder, John, Jr., to Whirlpool Corporation. Absorber-condenser apparatus. 3,466,893, 9-16-69, Cl. 62-476.
Phillips, Bernard C., to Tillotson Manufacturing Company, The. Fuel feeding and charge forming apparatus. 3,454,265, 7-8-69, Cl. 261-41.
Phillips, Bernard C.: *See*—
Nutten, Warren D.; and Phillips, Bernard C.,3,428,406.
Phillips, Bernard L., to Mallory, P. R., & Co., Inc. Metal-alloy film resistor and method of making same. 3,462,723, 8-19-69, Cl. 338-7.
Phillips, Bobby W. Building structure. 3,429,087, 2-25-69, Cl. 52-250.
Phillips, Brian L.: *See*—
Argabright, Perry A.; Sinkey, Vernon J.; and Phillips, Brian L.,3,458,448.
Phillips, Bryan F.: *See*—
Hazlehurst, Philip Geoffrey; Hollis, Sydney G.; and Phillips, Bryan F.,3,459,407.
Phillips, Bryce W., to Reynolds Metals Company. System for detecting small openings in hollow bodies. 3,453,054, 7-1-69, Cl. 356-237.
Phillips, Carmen S.; and Risum, H. Mervin, to International Harvester Company. Row crop harvester. 3,462,922, 8-26-69, Cl. 56-23.
Phillips, Carmen S.: *See*—
Zitko, Ronald F.; and Phillips, Carmen S.,3,439,479.
Phillips, Carroll D.; and Orchard, Clifton F., to Raytheon Company. Missile loading apparatus. 3,459,102, 8-5-69, Cl. 89-1.805
Phillips, Claude F.; and Parrent, William Russell, to Airtex Products, Division of United Industrial Syndicate. Apparatus for testing fuel pumps. 3,452,591, 7-1-69, Cl. 73-118.
Phillips, Clayton L., 1/4 to Switzer, Don R. Well tool combination and adapter. 3,461,961, 8-19-69, Cl. 166-187.
Phillips, David Meredith, to Imperial Chemical Industries Limited. Polyamide yarn packages with tapered end- portions and their production. 3,450,371, 6-17-69, Cl. 242-159.
Phillips, Davis M., to McGraw-Edison Company. Cable termination having stress relief means. 3,450,827, 6-17-69, Cl. 174-73.
Phillips, Donald D.: *See*—
Ward, Loyal F., Jr.; and Phillips, Donald D.,3,435,113.
Phillips, Donald E.: *See*—
Day, Willis E.; and Phillips, Donald E.,3,426,266.
Phillips, Donald K.: *See*—
Manson, Andrew John; and Phillips, Donald K.,3,433,785.
Phillips Drill Company, Inc.: *See*—
Bixby, Thomas G., 3,478,829.
Phillips, Duane E.; Schultz, Roger C.; and Beck, Herbert H., to Armour and Company. Label printing and dispensing apparatus and method of labeling packages. 3,461,984, 8-19-69, Cl. 177-3.
Phillips, Dwight M. Resilient retaining means. 3,466,772, 9-16-69, Cl. 37-142.
Phillips, Edward H., to Tydeman Machine Works, Inc. Relief valve. 3,442,290, 5-6-69, Cl. 137-596.2
Phillips, Edward H., to Tydeman Machine Works, Inc. Heat exchanger for cooling liquids. 3,469,625, 9-30-69, Cl. 165-125.
Phillips, Edward H. Entertainment device. 3,473,428, 10-21-69, Cl. 84-464.
Phillips, Edward T., to Ryan Aeronautical Co., The. Beam pointing and gain correction of large spherical antennas. 3,453,633, 7-1-69, Cl. 343-779.
Phillips, Edwin D. Stressed plastic valve for laboratory glassware. 3,475,002, 10-28-69, Cl. 251-155.
Phillips, Edwin R., to Sperry Rand Corporation. Fluid vortex spin sensor. 3,436,969, 4-8-69, Cl. 73-505.
Phillips Engineering Limited: *See*—
Steer, Ensor William Harold; and Bowman, Kenneth Frederick Charles, 3,457,642.
Phillips, Frank L.: *See*—
Canning, Thomas F.; Rooney, John A. P.; and Phillips, Frank L.,3,436,344.
Phillips, George H. Eraser device. 3,430,282, 3-4-69, Cl. 15-210.
Phillips, George M.: *See*—
Hindin, Herbert B.; Klang, Robert S.; and Phillips, George M.,3,452,799.
Phillips, Gerard D., Jr. American Standard Inc. Lavatory unit. 3,451,068, 6-24-69, Cl. 4-166.
Phillips, Glenn L.: *See*—
Blood, Alden E.; Vinyard, Herschel T.; and Phillips, Glenn L.,3,466,149.
Phillips, Gordon; and Bowell, Stephen T., to SCM Corporation, mesne. Solvent composition for water reducible resin dispersions. 3,446,764, 5-27-69, Cl. 260-22.
Phillips, Gordon; and Casshie, Tony R., to SCM Corporation, mesne. Water-dispersible epoxy-modified alkyd resin and process therefor. 3,427,266, 2-11-69, Cl. 260-22.
Phillips, Graham R., to Century Electric Company. Electric motor that deenergizes starting winding thereof when difference between voltages across running and starting windings thereof changes as rotor speed increases. 3,421,064, 1-7-69, Cl. 318-220.
Phillips, Harold O.: *See*—
Johnson, James S.; Kraus, Kurt A.; Marcinkowsky, Arthur E.; Phillips, Harold O.; and Shor, Arthur J.,3,449,245.
Phillips Harvesting Co.: *See*—
Phillips, Joel P., Jr., 3,421,304.
Phillips, Joel P., Jr., 3,421,305.
Phillips, Hermon E. Refuse burning device. 3,428,004, 2-18-69, Cl. 110-19.
Phillips, Hugh Edmund: *See*—
Petyt, Colin Roderick; and Phillips, Hugh Edmund,3,420,409.
Petyt, Colin Roderick; and Phillips, Hugh Edmund,3,486,662.
Phillips, Irvine L.; Scott, David B.; and Thompson, James M., to Soilserv, Inc. Apparatus for precision planting of seeds. 3,442,221, 5-6-69, Cl. 103-117.
Phillips, Irving H., to Wilborn, James C., & Sons, Inc. Sash lock for removable sash windows. 3,429,071, 2-25-69, Cl. 49-181.
Phillips, J. B.: *See*—
Standaart, Adrian W., 3,474,458.
Phillips, James A., Jr., 30% to Phillips, James A., Sr. Phillips, Leah M. Steam operated hot water heater with conical coil. 3,456,620, 7-22-69, Cl. 122-32.
Phillips, James A., Sr.: *See*—
Phillips, James A., Jr., 3,456,620.
Phillips, James L., to Texas Instruments, Incorporated. Gate circuit with means for inhibiting output signals. 3,437,843, 4-8-69, Cl. 307-254.
Phillips, James M. R.: *See*—
Devlin, Edward C.; and Phillips, James M. R.,3,469,235.
Phillips, James P. Portable car wash machine. 3,454,042, 7-8-69, Cl. 137-565.
Phillips, Jerome, to Controls Company of America. Bearing and end shield arrangement for dynamo- electric machine and method of assembling same. 3,483,409, 12-9-69, Cl. 310-90.
Phillips, Jerome; and Hipps, Robert A., to Controls Company of America. Lead arrangement. 3,457,441, 7-22-69, Cl. 310-71.
Phillips, Jerome: *See*—
Latta, Edward; Godin, Edmund J.; and Phillips, Jerome,3,444,409.
Phillips, Joel P., Jr., to Phillips Harvesting Co. Fruit picking apparatus and improvements therein. 3,421,304, 1-14-69, Cl. 56-328.
Phillips, Joel P., Jr., to Phillips Harvesting Co. Fruit picking apparatus. 3,421,305, 1-14-69, Cl. 56-328.
Phillips, John F., to National Advertising Company. Interleaved multiple sliding panel six-message display device. 3,430,371, 3-4-69, Cl. 40-61.
Phillips, John J.; and McCormick, Larry L., to G & H Technology, Inc., mesne. Swingaway valve with electrical responsive release means. 3,428,064, 2-18-69, Cl. 137-72.
Phillips, Joseph C. Dual grip spectacles holder. 3,450,467, 6-17-69, Cl. 351-157.
Phillips, Joseph, to Witco Chemical Company, Inc. Preparation of kerosene type petroleum hydrocarbon solvents substantially free from objectionable odors. 3,485,747, 12-23-69, Cl. 208-289.
Phillips, Julius: *See*—
Amberg, Stephen W.; Amberg, Ralph G.; and Phillips, Julius,3,471,992.
Phillips, Kenneth G., to Nalco Chemical Company. Polymers and process of preparation. 3,468,818, 9-23-69, Cl. 260-2.

Phillips, Lawrence D.: *See—*
Eddy, William R.; Phillips, Lawrence D.; and Beason, Elmer C.,3,430,528.
Phillips, Leah M.: *See—*
Phillips, James A., Jr., 3,456,620.
Phillips, Lee V.: *See—*
Neighbors, Ralph P.; and Phillips, Lee V.,3,451,802.
Phillips, Lee V.; and Latham, Archie J., to Gulf Research & Development Company. Method of combating nematodes with 3-cyclopropyl- 5-dichloromethyl-1,2,4-oxadiazole. 3,471,621, 10-7-69, Cl. 424-272.
Phillips, Leslie Nathan, to National Research Development Corporation. Synthetic cross-linked polymers. 3,423,335, 1-21-69, Cl. 260-2.
Phillips, Manio Lido: *See—*
Aliment, Lindy; Aliment, Randy Jarl; and Phillips, Manio Lido,3,476,432.
Phillips Manufacturing Company, Inc.: *See—*
Klancke, John H.; and Lindsey, Seth B., 3,456,094.
Phillips, Melville John, to Rheem Manufacturing Company. Seamed joints. 3,466,661, 9-9-69, Cl. 113-1.
Phillips, Michael, to Dreyfus, L. A., Company. Method and apparatus for producing laminated slabs. 3,455,755, 7-15-69, Cl. 156-204.
Phillips, Norman D., to Babcock & Wilcox Company, The. Method for recovery of chemicals from magnesium base sulphite digestion process. 3,462,343, 8-19-69, Cl. 162-36.
Phillips, Norman D.: *See—*
Markant, Henry P.; Phillips, Norman D.; and Shah, Indravadan S.,3,471,249.
Phillips, Norman W. F.: *See—*
Dewing, Ernest William; and Phillips, Norman W. F.,3,436,210.
Phillips, Paul S., Jr.; and Hein, Gerald M., to National Cash Register Company, The. Color sensitized record material comprising phenolic resin and acid type mineral. 3,455,721, 7-15-69, Cl. 117-36.2
Phillips, Paul S. Jr., to National Cash Register Company, The. Pressure-sensitive record system and composition. 3,427,180, 2-11-69, Cl. 117-36.2
Phillips Petroleum Company: *See—*
Alexander, James W., 3,482,587.
Alford, Roscoe R., 3,476,512.
Anderson, John E., 3,487,113.
Arnold, Philip M., 3,452,120.
Arnold, William O., 3,427,361.
Arslanian, Vincent; and Weber, William J., 3,464,575.
Avolio, Donald R., 3,452,919.
Ayers, Buell O., 3,422,664.
Ayers, Buell O.; and Sanford, Richard A., 3,438,242.
Ayres, Charles A.; and Morris, Carl S., 3,471,374.
Bailey, Dunn M., 3,474,633.
Bailey, Fay W., 3,444,106.
Ball, Lawrence J., 3,468,409.
Banks, Robert L., 3,431,316.
Banks, Robert L., 3,442,969.
Banks, Robert L., 3,463,827.
Barnes, Bruce E., 3,469,282.
Barret, Willis R., 3,450,328.
Bauer, Robert D., 3,434,701.
Bearer, Louis C., 3,475,245.
Beason, Elmer C.; and Mader, George E., Jr., 3,450,587.
Bidwell, Raymond E., 3,428,236.
Bjornson, Geir, 3,439,052.
Bjornson, Geir, 3,462,318.
Bjornson, Geir, 3,471,546.
Blackwell, Jennings P., 3,478,094.
Bolen, Kenneth E., 3,425,542.
Bost, Howard W.; and Cook, Charles F., 3,479,398.
Boultinghouse, Harold D., 3,431,875.
Boultinghouse, Harold D., 3,473,206.
Box, E. O., Jr., 3,446,868.
Box, E. O., Jr.; and Hepp, Harold J., 3,461,177.
Boykin, Philip J., 3,478,529.
Bracken, Robert C.; and Maddox, De Wayne, 3,444,052.
Bracken, Robert C.; and Lea, Eugene D., 3,470,069.
Bresson, Clarence R.; and Dix, James S., 3,424,800.
Bridenstine, Orville J., 3,425,594.
Bridenstine, Orville J., 3,456,808.
Bridgeford, Ronald E., 3,437,564.
Broerman, Arthur B., 3,426,940.
Broerman, Arthur B., 3,452,506.
Brown, Claude V., 3,423,888.
Burk, Marvin C.; and Neer, Harold M., Jr., 3,448,291.
Burk, Marvin C.; and Roof, Lewis B., 3,468,157.
Butcher, Alvin E., 3,471,604.
Cabbage, John T., 3,420,907.
Cabbage, John T.; Blaker, David G.; and Berger, Richard F., 3,435,084.
Chapman, Charles C., 3,431,079.
Chapman, Charles C., 3,478,125.
Chapman, Welding G.; and Carlson, Rollin N., 3,462,347.
Chesser, John F., 3,450,805.
Childers, Clifford W., 3,429,951.
Childs, William V., 3,420,713.
Childs, William V., 3,445,292.
Childs, William V., 3,461,049.
Childs, William V., 3,461,050.
Christensen, Don C., 3,438,952.
Cines, Martin R., 3,449,479.
Cines, Martin R., 3,462,582.
Cines, Martin R.; and Findlay, Robert A., 3,484,352.
Clardy, Edwin K., 3,443,415.
Clardy, Edwin K.; and Raible, Clarence J., 3,457,774.
Clardy, Edwin K., 3,468,156.
Clay, Harris A.; and Reinmuth, Gene K., 3,449,244.
Clay, Harris A., 3,484,221.
Cleary, James W., 3,457,246.
Cole, Clinie E., 3,459,844.
Collie, Stafford D., 3,434,644.
Collie, Stafford D., 3,475,246.
Collie, Stafford D., 3,482,756.
Collins, Henry R., Jr., 3,438,261.
Collins, Henry R., Jr., 3,480,032.
Constantikes, George J.; and Bauer, Robert D., 3,427,228.
Cook, Jack E.; and Marrs, Oren L., 3,428,618.
Cornelius, Archie J., 3,420,298.
Cornelius, Archie J., 3,456,722.
Cornelius, Archie J.; and Klein, Frederick A., 3,457,995.
Cornelius, Archie J., 3,476,185.
Corum, Donald A., 3,480,512.
Cox, Jack C.; and Meldau, Robert F., 3,437,135.
Crain, Donald L., 3,463,828.
Culpepper, Eugene, 3,473,290.
Cunningham, Sheldon A.; and Marwil, Stanley J., 3,457,248.
Davison, Joseph W., 3,436,380.
Davison, Joseph W., 3,442,970.
De Vault, Albert N.; and Johnson, Marvin M., 3,451,920.
Dean, Maurice R.; and Trantham, Joseph C., 3,456,734.
Deck, Harold R., 3,453,298.
Deford, Donald D., 3,455,090.
Deford, Donald D., 3,457,708.
DeVault, Albert N., 3,479,278.
Dew, Jimmy S., 3,457,216.
Dix, James S., 3,437,654.
Dix, James S., 3,484,487.
Dixon, Rolland E., 3,485,890.
Doane, Elliott P., 3,475,325.
Dockery, Calvin D., 3,461,503.
Doss, Richard C., 3,440,230.
Doss, Richard C., 3,477,966.
Drake, William O.; and Mills, Kenneth R., 3,484,402.
Draper, Homer L.; Bennett, Richard J.; and Gagle, Duane W., 3,474,625.
Drehman, Lewis E., 3,461,182.
Dutcher, Dennis L., 3,482,327.
Eddy, William R.; Phillips, Lawrence D.; and Beason, Elmer C., 3,430,528.
Elliott, Ralph W., 3,457,781.
Elliott, Sheldon E., 3,430,194.
Engel, Thomas Paul, 3,479,424.
Engle, Charles J., 3,485,300.
Ezzell, Robert C., 3,475,288.
Farrar, Ralph C., 3,445,446.
Farrar, Ralph C., 3,458,492.
Favre, John A., 3,450,423.
Fewel, Robert A., 3,481,349.
Fisher, Henry B., 3,437,144.
Flaming, Edwin H., 3,435,109.
Floyd, James C.; and Shell, Francis J., 3,479,287.
Fodor, Lawrence M., 3,429,862.
Fodor, Lawrence M., 3,444,153.
Folz, John M., 3,423,386.
Folz, John M., 3,431,315.
Folz, John M., 3,432,569.
Forsyth, Samuel E., 3,485,745.
Foster, Billy J., 3,467,987.
Furrow, Clarence L., 3,450,749.
Gaeth, Rudolf H., 3,457,250.
Gaeth, Rudolf H.; and Brown, James D., 3,458,493.
Gaeth, Rudolf H.; and Naylor, Floyd E., 3,480,608.
Gallaugher, Major L.; and Pritchard, James E., 3,468,702.
Gardner, Lloyd E., 3,432,441.
Gardner, Lloyd E., 3,432,562.
Gardner, Lloyd E., 3,444,251.
Gardner, Lloyd E., 3,456,025.
Gerner, Robert V., 3,461,918.
Gibbs, Frank C., 3,429,866.
Gilbert, Dixie E., 3,460,416.
Gilbert, Dixie E., 3,468,994.
Gilchrist, Ralph E., 3,425,492.
Gilchrist, Ralph E.; and Cornelius, Archie J., 3,455,384.

Goard, Howard W.; and Shaul, Duane D., 3,448,587.
Godin, James B., 3,452,113.
Goins, Robert R., 3,430,797.
Goodhue, Lyle D.; and Reinert, Andrew J., 3,474,177.
Goodhue, Lyle D., 3,478,152.
Graves, John H., 3,429,107.
Gray, Roy A.; and Kruse, Carl W., 3,426,086.
Greene, Max E., 3,478,142.
Gruver, Jerry T., 3,445,543.
Gruver, Jerry T.; and Childers, Clifford W., 3,476,829.
Gunnell, Thomas J., 3,431,075.
Gunnell, Thomas J.; and Stegelman, Albert F., 3,468,632.
Gwinn, J. S.; and Christensen, Don C., 3,486,193.
Hall, Warren S.; and Ross, Edward F., 3,440,304.
Hann, Paul D., 3,478,103.
Hart, Walter C., 3,441,483.
Harvey, Robert R.; and Vaclaw, Mike M., 3,431,976.
Harvey, Robert R., 3,476,187.
Harvey, Robert R., 3,476,188.
Hawkins, Harold M.; and Christensen, Don C., 3,428,619.
Hays, George E.; and Poska, Forrest L., 3,445,990.
Heckart, Robert D., 3,470,070.
Heckelsberg, Louis F., 3,444,262.
Heckelsberg, Louis F.; and Banks, Robert L., 3,445,541.
Heckelsberg, Louis F., 3,485,891.
Henderson, Eulas W.; and Dollinger, Robert E., 3,486,853.
Hensley, Max J., 3,425,631.
Hepp, Harold J.; and Drehman, Lewis E., 3,425,955.
Hepp, Harold J.; and Box, E. O., Jr., 3,461,183.
Hill, George R.; and Needham, Donald G., 3,432,461.
Hill, George R.; and Needham, Donald G., 3,468,827.
Hill, Harold Wayne, Jr., 3,457,242.
Hillman, Donald A., 3,484,427.
Hinton, Robert A., 3,450,183.
Hinton, Robert A., 3,452,119.
Hinton, Robert A., 3,457,249.
Hinton, Robert A.; and Norwood, Donald D., 3,461,109.
Hogan, John P.; and Kitchen, Alonzo G., 3,476,724.
Holiday, Allan D., 3,453,343.
Holm, Vernon C. F.; and Nolan, George J., 3,448,164.
Horvath, Bert, 3,485,771.
Horvath, Elizabeth G., 3,429,932.
Hsieh, Henry L., 3,438,957.
Hsieh, Henry L., 3,441,521.
Hsieh, Henry L.; and Busler, William R., 3,450,683.
Hsieh, Henry L.; and Mueller, Francis X., Jr., 3,457,197.
Hsieh, Henry L., 3,459,688.
Hsieh, Henry L., 3,468,817.
Hsieh, Henry L., 3,468,860.
Hsieh, Henry L., 3,468,972.
Hsieh, Henry L., 3,475,395.
Hsieh, Henry L., 3,480,607.
Hsieh, Henry L., 3,483,135.
Hsieh, Henry L., 3,487,029.
Hurst, Alan R., 3,432,333.
Husby, Richard E., 3,451,580.
Hutson, Thomas, Jr.; and Carter, Cecil O., 3,476,825.
Hutson, Tom, Jr.; and Carter, Cecil O., 3,435,092.
Irvin, Howard B.; and Mathias, James J., 3,458,490.
Jennings, Gerald P., 3,475,004.
Johnsen, Harry C., 3,487,160.
Johnson, Merion L.; and Lupfer, Dale E., 3,420,748.
Johnson, Merion L.; and Lupfer, Dale E., 3,449,215.
Johnson, Paul H.; and Dollinger, Robert E., 3,484,200.
Johnston, Chester C.; and Huddleston, Thomas J., 3,428,410.
Johnston, Chester C., 3,438,834.
Johnston, Robert K., 3,424,809.
Jones, Faber B.; and Simpson, Billy D., 3,423,374.
Jones, Faber B., 3,475,389.
Jones, Faber B., 3,476,709.
Jones, Faber B., 3,479,323.
Jones, Maurice W., 3,441,485.
Kahle, Gerald R., 3,429,829.
Kahle, Gerald R.; and Fodor, Lawrence M., 3,479,330.
Kahle, Gerald R.; and Buck, Ollie G., 3,481,911.
Kahle, Gerald R.; and Fodor, Lawrence M., 3,481,915.
Kahre, Le Roy C., 3,476,736.
Kallenbach, Lyle R., 3,432,518.
Kallenbach, Lyle R., 3,445,367.
Kallenbach, Lyle R., 3,484,428.
Kallenberger, Robert, 3,445,190.
Keene, William A., 3,454,439.
Kelley, Carl S., 3,441,626.
Kenton, Joseph R.; Crain, Donald L.; and Zuech, Ernest A., 3,449,463.
Kinney, Alfred W.; and Barrett, Willis R., 3,457,699.
Kinslow, William G., Jr., 3,430,290.
Kinslow, William G., Jr., 3,434,626.
Kinslow, William G., Jr., 3,477,700.
Kitchen, Leland G.; and Rhea, Keith G., 3,477,457.
Klein, Frederick A., 3,443,640.
Klein, Frederick A., 3,465,822.
Kleiss, Louis D., 3,432,418.
Kleiss, Louis D., 3,479,863.
Krejci, Joseph C.; and Howard, Murl B., 3,460,911.
Krejci, Joseph C., 3,475,125.
Kruse, Carl W., 3,437,695.
Kubicek, Donald H., 3,471,579.
Kuntz, Louis E.; Hahn, William C.; and Rhoades, Merle C., 3,426,273.
Kuper, Donald G., 3,466,317.
Larkin, Mark E., 3,438,085.
Lawson, Bobby L., 3,424,903.
Lewallen, John V., 3,427,657.
Lewallen, John V., 3,445,052.
Lindsey, Joe P.; and Elliott, Sheldon E., 3,430,193.
Lindsey, Joe P., 3,432,807.
Little, Donald M., 3,434,962.
Little, Donald M.; and Hettick, George R., 3,448,040.
Little, Donald M., 3,474,030.
Little, Donald M.; and Hettick, George R., 3,475,329.
Little, Donald M.; and Hettick, George R., 3,477,945.
Louthan, Rector P., 3,434,852.
Louthan, Rector P., 3,472,898.
Lumpkin, William B.; and Meldau, Robert F., 3,454,365.
Lupfer, Dale E., 3,471,582.
Mailen, Tyson H.; and Stansbury, Roy E., 3,448,586.
Malick, Emil A., 3,457,082.
Martinovich, Robert J., 3,445,424.
Marwil, Stanley J., 3,468,868.
Mathis, Clyde H.; and Siedenstrang, Roy W., 3,420,808.
Matyear, Charles, 3,474,152.
Maxfield, Perry L., 3,427,365.
Maxfield, Perry L., 3,446,871.
Maxfield, Perry L., 3,448,129.
Maxfield, Perry L., 3,471,581.
Maxfield, Perry L., 3,473,898.
Maxfield, Perry L., 3,475,471.
Maxfield, Perry L., 3,476,769.
Maxfield, Perry L., 3,481,710.
Mayhue, Luther F., 3,470,264.
Mayhue, Luther F., 3,485,893.
McCarthy, William C., 3,485,013.
McCoy, Raymond D.; and Ogle, Frank T., 3,475,392.
McCray, Floyd D., 3,439,542.
Meldau, Robert F., 3,442,333.
Merryfield, Gorge E.; and Cabbage, John T., 3,450,783.
Michael, Richard W.; and Porter, Grady T., 3,432,684.
Mirasol, Salustiano S., Jr., 3,485,436.
Mitacek, Bill, 3,432,431.
Mitacek, Bill; and Skeen, Andrew E., 3,468,688.
Mitchell, Norris W., 3,424,672.
Mitchell, Norris W.; and Moon, John A., 3,485,886.
Moberly, Charles W., 3,484,424.
Molitor, Edwin A., Jr., 3,449,889.
Montgomery, Dean P., 3,457,093.
Moore, Gerald E., 3,449,239.
Moore, John M.; and Motsenbocker, James O., 3,444,284.
Myers, John W., 3,441,624.
Myers, John W., 3,449,264.
Myers, John W.; and Johnson, Marvin M., 3,478,120.
Nave, Thomas J.; and Larkin, Mark E., 3,425,090.
Needham, Donald G.; and Hill, George R., 3,444,115.
Needham, Donald G.; and Kier, Denney M., 3,475,354.
Needham, Riley B., 3,487,001.
Nelson, William M., 3,468,995.
Nelson, William T.; and Johnson, Marvin M., 3,459,824.
Nolan, George J., 3,446,869.
Norell, John R., 3,433,828.
Norell, John R., 3,479,362.
Norell, John R., 3,484,434.
Nowlin, Gene; and Lyons, Harold D., 3,449,307.
Oates, Alex N.; and Edmonds, James T., Jr., 3,487,454.
Odell, Allen E., 3,468,990.
Oglesby, Minor W., 3,423,291.
Oglesby, Minor W., Jr.; and Keeler, Robert M., 3,428,528.
Osburn, Carl L., 3,450,105.
Owen, Charley H., 3,440,020.
Parker, Harry W., 3,428,125.
Parker, Harry W., 3,439,741.
Parker, Harry W., 3,451,479.
Parker, Harry W., 3,454,958.
Parker, Harry W., 3,456,731.
Parker, Harry W.; and Meldau, Robert F., 3,457,993.
Parker, Harry W., 3,457,996.
Parker, Harry W., 3,460,620.
Passley, Paul L., 3,426,095.
Payne, William E.; and Mariz, Carl L., 3,468,863.
Peacock, Dixon W., 3,461,068.
Peacock, Dixon W., 3,476,650.
Pesch, Herman; and Angell, George Z., 3,468,225.
Peters, Donald L.; and Alexander, Doyle L., 3,424,829.

Peters, Donald L., 3,438,538.
Pitchford, Armin C., 3,432,320.
Pitchford, Armin C., 3,483,153.
Pitchford, Armin C., 3,484,365.
Pollock, Lyle W., 3,424,733.
Pollock, Lyle W., 3,449,284.
Pollock, Lyle W., 3,458,602.
Poux, Charles A.; and Deutsch, Peter R., 3,432,887.
Price, Lowell T.; Moon, John J.; and Stewart, Charles M., 3,476,823.
Primrose, Russell A., 3,423,989.
Pritchard, James E., 3,461,087.
Proctor, Oliver P., Jr., 3,426,088.
Railsback, Henry E., 3,420,913.
Rains, Cloral O., 3,452,128.
Rakes, James L.; Rees, Robert L.; and Held, Edward C., Jr.,, 3,474,165.
Rasmussen, Ole-Bendt, 3,468,461.
Ray, Gardner C.; and Frey, David A., 3,458,486.
Reber, Martin R.; and Wagner, Paul H., 3,453,182.
Reeve, Clifford L.; and Vautrain, Lucien H., 3,438,395.
Reid, James A., 3,433,578.
Reinecke, Marvin E., 3,473,377.
Reinert, Andrew J.; and Williams, Ralph P., 3,433,873.
Reinert, Andrew J.; Blackwell, Jennings P.; and Cantrel, Kenneth E., 3,474,173.
Reinert, Andrew J.; and Cantrel, Kenneth E., 3,474,175.
Reinert, Andrew J.; Cantrel, Kenneth E.; and Cobb, Raymond L., 3,475,539.
Renaudo, Samuel, 3,475,517.
Robbins, Eldred E., 3,460,590.
Robinson, Leroy E.; and Perry, Dan E., 3,424,358.
Rogers, Ronald S., 3,448,015.
Rohlfing, Raymond G.; and Marwil, Stanley J., 3,451,785.
Roof, Lewis B., 3,444,722.
Ryan, Norman W., 3,420,632.
Samuels, Sherwood C., Jr., 3,481,865.
Sanford, Richard A.; McCray, Floyd D.; and Hutson, Thomas, Jr., 3,424,975.
Sanford, Richard A.; and Ayers, Buell O., 3,431,770.
Sanford, Richard A.; and Miller, Maurice L., 3,446,077.
Sanford, Richard A.; and Ayers, Buell O., 3,457,704.
Sanford, Richard A.; and Ayers, Buell O., 3,483,731.
Saunders, William E.; and Stalder, William L., 3,478,000.
Scoggin, Jack S., 3,437,646.
Scoggin, Jack S., 3,448,588.
Scoggin, Jack S., 3,454,545.
Scoggin, Jack S., 3,454,675.
Scoggin, Jack S., 3,458,494.
Scoggin, Jack S., 3,474,158.
Seefluth, Charles L., 3,439,380.
Seefluth, Charles L., 3,445,096.
Shannon, James L.; and Sauber, Charles A., 3,471,402.
Sheehan, William C., 3,487,453.
Shell, Francis J., 3,446,733.
Sherk, Fred T.; and Hutto, John F., 3,420,908.
Shobe, Henry E., 3,445,094.
Shotton, James A., 3,426,133.
Shotton, James A., 3,434,995.
Silas, Robert S., 3,462,261.
Simpson, Billy D., 3,450,790.
Simpson, Heyward V.; Burnett, Reginald; and Ellenburg, John E., 3,484,283.
Singleterry, Joe N., 3,420,906.
Sissons, Frank M., Jr.; and Goering, Gordon, 3,446,710.
Slover, James W., 3,461,673.
Smith, Clifford E., 3,487,028.
Smith, Dexter E.; Broerman, Arthur B.; and Keeler, Robert M., 3,450,800.
Smith, Dexter E.; Keeler, Robert M.; and Guenther, Emmerich, 3,476,729.
Smith, Ernest L.; and Collie, Stafford D., 3,448,888.
Smith, Robert L.; and Gruver, Jerry T., 3,462,516.
Smith, Robert V., 3,456,721.
Sonnenfeld Richard J., 3,457,231.
Stapp, Paul R., 3,429,864.
Stapp, Paul R.; and Crain, Donald L., 3,457,320.
Sterry, Dan G.; and Lindsey, Joe P., 3,427,111.
Stoller, Frederick L., 3,438,104.
Stoller, Frederick L., 3,448,570.
Storment, Joseph E.; Jones, Charley S.; and Miller, Norman G., 3,443,391.
Stratton, Charles A., 3,432,480.
Stratton, Charles A., 3,456,732.
Strobel, Charles W., 3,438,923.
Tabler, Donald C., 3,486,844.
Taggart, Everett Ray, 3,448,556.
Thompson, Stanley P., 3,462,285.
Thorn, Frank H., 3,474,036.
Thornhill, William J.; and Welty, Richard O., 3,467,905.
Trepka, William J., 3,439,049.
Trepka, William J.; and Sonnenfeld, Richard J., 3,450,685.
Tuck, Lee; and Ewers, Bruce E., 3,446,055.
Turner, Edward W., 3,427,375.
Turner, Edward W., 3,478,388.
Uraneck, Carl A.; and Trepka, William J., 3,435,011.
Van Pool, Joe, 3,486,860.
Vautrain, Lucien H.; and Hughes, Darrel W., 3,474,027.
Venable, Charles R., Jr.; Wood, Zollie E.; and Cawi, Vernon A., 3,484,212.
Vesper, Daniel M.; and Neer, Harold M., 3,440,397.
Walker, Darrell W.; and McReynolds, Leo A., 3,480,660.
Walters, Harold C., 3,471,540.
Warner, Paul F.; and Tompkins, Harold W., 3,454,651.
Warner, Paul F., 3,484,355.
Warzel, Fred M., 3,479,133.
Warzel, Fred M., 3,479,134.
Washer, Stone P., 3,434,934.
Webb, Paul U., 3,451,895.
Weber, William J., 3,486,442.
Welty, Richard O.; and Mader, George E., Jr., 3,439,622.
Wentz, Charles Alvin, Jr., 3,457,322.
Wienecke, Louis G., Jr., 3,439,860.
Wilcox, Isaac L., 3,437,544.
Wilcox, Isaac L., 3,447,734.
Wilcox, Isaac L., 3,455,500.
Wiley, Bruce F., 3,441,942.
Wiley, Bruce F., 3,447,127.
Williams, George E., 3,455,863.
Williams, George E.; and Held, Edward C., Jr., 3,486,197.
Williams, Ralph P., 3,453,125.
Wilson, Newton R.; and Nave, Thomas J., 3,479,420.
Wofford, Clinton F., 3,484,388.
Zabasnik, Frederick J., 3,479,422.
Zavasnik, Fred J., 3,432,579.
Zelinski, Robert P., 3,449,306.
Zuech, Ernest A., 3,422,142.
Zuech, Ernest A., 3,435,088.
Zuech, Ernest A., 3,441,629.
Zuech, Ernest A., 3,485,881.

Phillips, Prella M.: *See*—
Ham, George E.; and Phillips, Prella M.,3,444,201.

Phillips, Robert A., to Motorola, Inc. Starting circuit for magnetic core voltage inverter system. 3,434,035, 3-18-69, Cl. 321-45.

Phillips, Robert A., to Motorola, Inc. Starting circuit for magnetic core voltage inverter systems. 3,434,036, 3-18-69, Cl. 321-45.

Phillips, Robert E. Testing device. 3,430,415, 3-4-69, Cl. 53-123.

Phillips, Robert E.; and Thiel, Charles G., to Dart Industries Inc. Inhalation-actuated aerosol dispensing device. 3,456,646, 7-22-69, Cl. 128-173.

Phillips, Robert L., to Burroughs Corporation. Dual voltage regulated power supply. 3,431,429, 3-4-69, Cl. 307-31.

Phillips Robert M., to Varian Associates. Circuit sever for PPM focused traveling wave tubes. 3,466,493, 9-9-69, Cl. 315-3.5

Phillips, Robert; and Levine, Bernard B., to Bernard Plastics Molding Corporation. Garment hanger. 3,467,291, 9-16-69, Cl. 223-85.

Phillips, Rodger W., to Sun Oil Company. Grease composition containing ethylene-vinyl acetate copolymer. 3,453,211, 7-1-69, Cl. 252-37.

Phillips, Rodney, to British Iron and Steel Research Association, The. Alloy steels. 3,472,707, 10-14-69, Cl. 148-36.

Phillips, Ronald L., to General Motors Corporation. Four wheel drive vehicle and power train. 3,455,407, 7-15-69, Cl. 180-44.

Phillips, Ronald N.: *See*—
Jordan, Robert J., 3,447,014.

Phillips, Ronald N.: *See*—
Jordan, Robert J.; Davis, Robert B.; and Phillips, Ronald N.,3,435,656.

Phillips, Stancel D.: *See*—
Farrington, John A., Jr.; Flynn, Gordon L.; Phillips, Stancel D.; and Scott, John V.,3,470,528.

Phillips, Thomas Anthony, to General Electric Company. High-speed overload circuit. 3,424,949, 1-28-69, Cl. 317-33.

Phillips, Thomas Rowland: *See*—
Percival, George; and Phillips, Thomas Rowland,3,469,957.

Phillips, Vaughan Mansel, to General Motors Corporation. Liftable covers for automobile body compartments. 3,476,280, 11-4-69, Cl. 217-60.

Phillips, Warren D. Fracture board. 3,469,268, 9-30-69, Cl. 5-82.

Phillips, Warren D. Hospital carafe. 3,469,739, 9-30-69, Cl. 221-96.

Phillips, Wendell O.: *See*—
Durst, Richard R.; and Phillips, Wendell O.,3,463,743.

Phillips, William G., to SCM Corporation, mesne. Dispenser for granular condiment having a noisemaker. 3,478,932, 11-18-69, Cl. 222-192.

Phillips, William H., Jr., to Carmet Company. Adjustable drawing die. 3,436,951, 4-8-69, Cl. 72-468.

Phillips, William H., Jr., to Carmet Company. Draw die assembly. 3,440,862, 4-29-69, Cl. 72-467.

Phillips, William H., Jr., to Carmet Company. Die assemblies. 3,466,922, 9-16-69, Cl. 72-467.

Phillips, William J.; and Barron, Donald B., to Crucible Steel Castings Co., Division of Consolidated Foundries and Manufacturing Company. Method of making metal patterns and core boxes for shell molding. 3,426,832, 2-11-69, Cl. 164-45.
Phillips, William L. Wear indicator for brakes. 3,440,604, 4-22-69, Cl. 340-52.
Phillips, William Neal, to Leco, Inc. High-lift side dump mechanism. 3,450,436, 6-17-69, Cl. 298-11.
Phillips, William N., to Leco, Inc. High-lift elevating mechanism. 3,446,379, 5-27-69, Cl. 214-512.
Phillips, William V., to General Motors Corporation. Dual path power transmission. 3,433,094, 3-18-69, Cl. 74-682.
Phillips, William: *See—*
Barrell, Kenneth; and Phillips, William,3,466,262.
Barrett, Cedric A.; and Phillips, William,3,468,336.
Phillips-Van Heusen Corporation: *See—*
Ansel, James F., III, 3,463,101.
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry, to Decca Limited. Packaging of phonograph records. 3,431,697, 3-11-69, Cl. 53-51.
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry. Method of embossing gramophone discs. 3,442,990, 5-6-69, Cl. 264-39.
Philograph Publication Limited: *See—*
Tacey, Charles Arthur, 3,435,541.
Philosophos, John A.: *See—*
Manion, Jean P.; Philosophos, John A.; and Robinson, Marquis B.,3,485,735.
Philpitt, Richard F., assor. Olinmathieson Chemical Corporation: *See—*
Philpitt, Richard F.; and Rubacky, Eugene P.; said, 3,426,137.
Philpitt, Richard F.; and Rubacky, Eugene P.; said, to Philpitt, Richard F., assor. Olinmathieson Chemical Corporation. Hair growth inhibiting by aminobenzophenones. 3,426,137, 2-4-69, Cl. 424-330.
Philpott, Richard Dale, to Steel Improvement & Forge Company, The. Proximity detector for electrochemical machining. 3,448,024, 6-3-69, Cl. 204-143.
Phin, James R.: *See—*
Caulford, Donald Alexander; and Phin, James R.,3,450,586.
Phinney, John M., to Falk Corporation, The. Turbine-powered marine drive. 3,435,694, 4-1-69, Cl. 74-361.
Phipard, Harvey F., Jr., to Research Engineering & Manufacturing Inc. Self-tapping screws with thread-forming projections. 3,426,642, 2-11-69, Cl. 85-46.
Phipard, Harvey F., Jr., to Research Engineering & Manufacturing, Inc. High friction screw. 3,426,820, 2-11-69, Cl. 151-22.
Phipard, Harvey F., Jr., to Research Engineering & Manufacturing, Inc. Combination of screw of soft material and female threaded body of hard material. 3,446,262, 5-27-69, Cl. 151-14.5
Phipard, Harvey F., Jr., to Research Engineering & Manufacturing Inc. Differential pitch fastener device. 3,454,070, 7-8-69, Cl. 151-22.
Phipps, Harold E.: *See—*
Lange, Henry F.; and Phipps, Harold E.,3,436,114.
Phipps, John Degory Baron, to Floatex Separations Limited. Classifiers for grading solid particles in a liquid suspension. 3,456,789, 7-22-69, Cl. 209-156.
Phipps, Mark, to Western Publishing Company, Inc., mesne. Launcher for spinning a top. 3,430,381, 3-4-69, Cl. 46-72.
Phleps, Konrad; Fruth, Franz; and Bloechl, Hanns, to Agfa-Gevaert Aktiengesellschaft. Wiping arrangement. 3,467,011, 9-16-69, Cl. 101-425.
Phlieger, Graydon A., Jr., to United States of America, National Aeronautics and Space Administration. Separation simulator. 3,433,909, 3-18-69, Cl. 200-82.
Phlipot, James R.; Gill, Lawrence H.; and Clifford, Earl W., to Aro of Buffalo, Incorporated. Valve responsive to changes in speed. 3,480,026, 11-25-69, Cl. 137-38.
Phoenix Chemical Laboratory, Inc.: *See—*
Tovrog, Theodore; and Krawetz, Arthur A., 3,434,338.
Phoenix Gems, Inc.: *See—*
de Lisle, August Louis, 3,476,568.
Phoenix Gummiwerke Aktiengesellschaft: *See—*
Santelmann, Kurt, 3,454,992.
Phoenix Precision Instrument Company: *See—*
Blume, Horst K., 3,440,864.
Phonemaster, Inc.: *See—*
Owen, James R., 3,471,643.
Phonix Armaturen Werke Bregel G.m.b.H: *See—*
Peschek, Robert, 3,420,103.
Phonocopy, Inc.: *See—*
Salaman, Roy George; and Taylor, Robert J., 3,441,940.
Photo Electronics Corporation: *See—*
Dreyfoos, Alex W., Jr.; and Mergens, George W., 3,441,663.
Dreyfoos, Alex W., Jr.; and Mergens, George W., 3,471,740.
Photo Instrument Tooling Company: *See—*
Karkow, Waldemar B., 3,461,805.
Photo-Engravers Research Institute, Incorporated: *See—*
Borth, Paul; and McKeone, Joseph, 3,458,371.
Borth, Paul; and McKeone, Joseph, 3,458,372.
Photocircuits Corporation: *See—*
Burr, Robert P., 3,482,229.
Grabbe, Dimitry G., 3,434,204.
Keogh, Raymond J., 3,456,858.
Polichette, Joseph N., 3,468,785.
Schneble, Frederick W., Jr.; McCormack, John; and Zeblisky, Rudolph J., 3,468,676.
Weiss, Bert; and Morino, Ronald, 3,481,033.
Zeblisky, Rudolph J.; Schneble, Frederick W., Jr.; and McCormack, John F., 3,485,643.
Photocircuits Corporaton: *See—*
McCormack, John F.; and Schneble, Frederick W., Jr., 3,443,988.
P. H. Plastics Inc.: *See—*
Dallaire, Raymond M., 3,483,658.
Phrix-Werke Aktiengesellschaft: *See—*
Thomas, Rainer; Keiler, Wilfred; and Weber, Paul, 3,458,901.
Phyfe, Lawson M.: *See—*
Bybee, Roger W.; and Phyfe, Lawson M.,3,474,228.
Physical Sciences Corporation: *See—*
Earl, John A., 3,446,637.
Earl, John A., 3,455,708.
Kyle, James C., 3,453,573.
McManus, Joseph M., 3,465,284.
Pitt, Howard; and Cantor, Marshall, 3,440,459.
Pitt, Howard; and Cantor, Marshall, 3,440,718.
Physics International Company: *See—*
Kattchee, Nicholas, 3,465,732.
Link, William T.; and Olander, William C., 3,484,643.
Physics Technology Labs., Inc.: *See—*
Meckel, Paul T., 3,463,455.
Physio-Control Corporation: *See—*
De Langis, Philip A., 3,426,342.
Physitech, Incorporated: *See—*
Starer, Robert; and Skurla, John P., 3,447,022.
Phytogen Products, Inc.: *See—*
Loken, Bjarte; and Gut, Marcel, 3,468,875.
Loken, Bjarte; and Sollins, Irving V., 3,480,619.
Loken, Bjarte; and Gut, Marcel, 3,480,621.
Reed, Jack Owen, 3,443,561.
Pi, Alberto E., to Clark Equipment Company. Apparatus for reeving conduits in extendible uprights. 3,462,028, 8-19-69, Cl. 214-95.
Piacesi, Dante: *See—*
Menichelli, Vincent J.; and Piacesi, Dante,3,447,464.
Piacitelli, Frank J., Jr.: *See—*
Marks, George B.; Marks, John W.; Marks, Herman J.; and Piacitelli, Frank J., Jr.,3,458,849.
Pianka, Max, to Murphy Chemical Company Limited, The. 2-t-Butyl-5-methyl-4,6-dinitrophenyl carboxylates. 3,453,318, 7-1-69, Cl. 260-479.
Pianka, Max; and Edwards, John Duncan, to Murphy Chemical Company Limited, The. Simultaneously effective antifungal and insecti- cidal or acaricidal pesticides. 3,450,818, 6-17-69, Cl. 424-300.
Piasecki, Raymond F., to Thomas & Betts Corporation. Wire bundle clamp. 3,473,768, 10-21-69, Cl. 248-68.
Piasecki, Raymond F., to Thomas & Betts Corporation. Modular terminal block. 3,474,397, 10-21-69, Cl. 339-198.
Piasecki, Walter L. Workpiece holder for use with the face plate of a lathe. 3,452,487, 7-1-69, Cl. 51-217.
Piasek, Edmund J.: *See—*
Traise, Thornton P.; and Piasek, Edmund J.,3,448,047.
Piatek, Robert J.: *See—*
Miller, Roland E.; Wayne, Clyde D.; Olson, Edgar C.; and Piatek, Robert J.,3,479,024.
Piatkowski, Paul, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Vibratory road roller with steering arrangement. 3,421,420, 1-14-69, Cl. 94-50.
Piazza, Carlo, to Deering Milliken Research Corporation. Method and apparatus for treating fibrous materials by exposure to an electrical discharge through a moving dielectric. 3,440,418, 4-22-69, Cl. 250-49.5
Piazze, Thomas E., to Continental Can Company, Inc. Apparatus for heat treating one end only of a package. 3,427,729, 2-18-69, Cl. 34-223.
Piazzolla, Giovanni; and Villa, Carlo. Loom dobby. 3,464,451, 9-2-69, Cl. 139-74.
Piber, Earl T., to Cutler-Hammer, Inc. Contact structure for electrical switching device and method of assembly. 3,437,772, 4-8-69, Cl. 200-166.
Piber, Earl T., to Cutler-Hammer, Inc. Illuminated pushbotton switch and method of assembling same. 3,437,775, 4-8-69, Cl. 200-167.
Pic-A-Pac Vending Corporation: *See—*
Cheslak, Leonard W.; Appelbaum, Paul; and Hanson, Raymond H., 3,486,658.
Picanol, Jaime. Protective device for slays driven with resilient crank arms. 3,460,586, 8-12-69, Cl. 139-190.
Picard, A. J., & Company, Inc.: *See—*
Picard, Adhemar J., 3,486,535.

Picard, Adhemar J., to Picard, A. J., & Company, Inc. Loom shuttle. 3,486,535, 12-30-69, Cl. 139-196.
Picard, Jean P.; and Voigt, H. William, Jr., to United States of America, Army. Process of preparing a particulate nitrocellulose containing explosive. 3,434,895, 3-25-69, Cl. 149-27.
Picard, Jean P.: *See—*
Seals, William O.; Dunigan, Thomas E.; and Picard, Jean P.,3,431,153.
Hantzer, Pierre; and Picard, Jean,3,460,973.
Picardat, Bernard: *See—*
Mathey, Raymond; Picardat, Bernard; and Lecocq, Robert,3,435,687.
Piccard, John Augustus: *See—*
Hull, Donald Robert; and Piccard, John Augustus,3,466,822.
Piccardo, Jack E., to Grove Valve and Regulator Company. Flow blocking device with pressure seal means. 3,463,448, 8-26-69, Cl. 251-159.
Piccirilli, Albert T.: *See—*
Marshall, Donald E., Jr.; and Piccirilli, Albert T.,3,430,070.
Piccola, Richard C., to Silvray Litecraft Corporation. Combination strip light. 3,430,039, 2-25-69, Cl. 240-51.11
Piccolo, Biagio: *See—*
Berardi, Leah C.; Martinez, Wilda H.; Boudreaux, Gordon J.; Piccolo, Biagio; and Frampton, Vernon L.,3,463,641.
Piccone, Dante E.; and Somos, Istvan, to General Electric Company. Double-triggering semiconductor controlled rectifier. 3,440,501, 4-22-69, Cl. 317-235.
Picha, George J., to Westinghouse Electric Corporation. Removable circuit and unitary supporting member therefor in a luminaire having elongated discharge lamps. 3,469,089, 9-23-69, Cl. 240-51.11
Pichard, Marc Roger, to Societe Anonyme: Balcar. Multiuse lighting device. 3,462,591, 8-19-69, Cl. 240-1.3
Pichel, Marlowe A., to Electro-Optical Systems, Inc. High quality sub-masters and method for producing them. 3,428,533, 2-18-69, Cl. 204-7.
Pichl, Eduard: *See—*
Fruhwirth, Otto; Schmidhammer, Ludwig; and Pichl, Eduard,3,424,805.
Pichoir, Francoise Marie Antoinette, to Office National d'Etudes et de Recherches Aerospatiales. Apparatus for fluorescent X-ray analysis of test bodies employing fluid filters with variable absorption characteristics. 3,456,108, 7-15-69, Cl. 250-49.5
Pick, George G.: *See—*
Gray, Stephen B.; and Pick, George G.,3,456,127.
Pick, Helmut, to Walther, Carl Kurt. Vibrator. 3,464,674, 9-2-69, Cl. 259-72.
Pickands Mather & Co.: *See—*
Giesking, Paul F., 3,422,771.
Longley, Harry F.; Bedford-Jones, Peter E.; and Battle, Thomas, 3,443,930.
Pickard, Edgar C. Standardbred racing bike. 3,482,851, 12-9-69, Cl. 280-63.
Pickard, John E., to Ball Brothers Company Incorporated. Composition for the treatment of lithographic plates. 3,467,537, 9-16-69, Cl. 117-6.
Pickard, John E.: *See—*
Scholes, Addison B.; and Pickard, John E.,3,420,693.
Pickart, Don E.: *See—*
Friedman, Harry; Langmaid, Roger N.; and Pickart, Don E.,3,471,415.
Pickel, James Brennan, to Gillette Company, The. Strip inspection system. 3,431,624, 3-11-69, Cl. 29-407.
Pickell, Phillip R., 50% to Sanders, George S. Hydrant and cooperative coupler valve. 3,441,055, 4-29-69, Cl. 137-614.06
Pickell, Phillip R., to Agricultural Aviation Engineering Company. Quick disconnect mechanism for securing auxiliary equipment to an aircraft. 3,463,424, 8-26-69, Cl. 244-131.
Pickelman, Dale M.: *See—*
Zimmerman, Robert L.; and Pickelman, Dale M.,3,458,484.
Pickels, Edward G., to Beckman Instruments, Inc. Method of making a high strength rotary member. 3,468,997, 9-23-69, Cl. 264-108.
Picker, Amos, to Hughes Aircraft Company. Piezoelectric laser beam deflector. 3,442,570, 5-6-69, Cl. 350-161.
Picker, Amos, to Hughes Aircraft Company. Method for making storage targets for cathode ray tubes. 3,480,482, 11-25-69, Cl. 148-6.3
Picker Chromatography, Inc.: *See—*
Gildner, Kenneth J., 3,465,951.
Picker Corporation: *See—*
Ball, Jack; and Wilkens, Gunter G., 3,440,422.
Cibula, William G.; and Schuster, Ronald, 3,444,378.
Perry, John T., 3,433,955.
Snarr, James L., 3,477,357.
Pickering, Charles E.: *See—*
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr.,3,440,939.
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr.,3,473,456.
Peterson, Dean M.; Windle, William, Jr.; and Pickering, Charles E.,3,439,596.
Pickering, Edgar, (Blackburn) Limited: *See—*
Woodcock, Douglas George, 3,440,983.
Pickering, John J. Electric toothbrush. 3,447,178, 6-3-69, Cl. 15-24.
Pickering, Norman C., to General Time Corporation, mesne. Digital quantity measuring apparatus. 3,481,520, 12-2-69, Cl. 225-4.
Pickering, Ralph W.; and Pidgeon, John S., to Electrolytic Zinc Company of Australia Limited. Extraction and recovery of metals from ores, concentrates and residues. 3,440,155, 4-22-69, Cl. 204-119.
Pickering, Ritha Edva. Prevention of alkali-aggregate reactions in concrete. 3,433,657, 3-18-69, Cl. 206-97.
Pickert, Paul E.: *See—*
Lanewala, Mohammed Ali; Bolton, Anthony P.; and Pickert, Paul E.,3,450,644.
Pickett, John E. P. Composite histologic tissue receptacle and embedding structure. 3,456,300, 7-22-69, Cl. 18-34.
Pickholtz, Raymond L., to International Telephone and Telegraph Corporation. Self-contained mass measurement system. 3,453,870, 7-8-69, Cl. 73-67.
Pickin, John Harlan, to Colgate-Palmolive Company. Aerosol detergent compositions. 3,431,060, 3-4-69, Cl. 8-137.
Pickios, Anthony G. Draftsman kit. 3,481,452, 12-2-69, Cl. 206-16.
Pickles, Arnold: *See—*
Dieman, Wendell R.; Lambden, Richard L.; and Pickles, Arnold,3,449,105.
Pickles, Joseph, to Ferro Manufacturing Corporation. Position control mechanism. 3,423,785, 1-28-69, Cl. 16-140.
Pickles, Joseph, to Ferro Manufacturing Corporation. Six-way seat adjuster. 3,430,516, 3-4-69, Cl. 74-665.
Pickles, Joseph, to Ferro Manufacturing Corporation. Seat adjustment mechanism. 3,437,303, 4-8-69, Cl. 248-394.
Pickles, Joseph, to Ferro Manufacturing Corporation. Window regulator motor and transmission housing. 3,455,174, 7-15-69, Cl. 74-89.14
Pickles, Joseph, to Ferro Manufacturing Corporation. Top lift slave assembly. 3,472,551, 10-14-69, Cl. 296-117.
Pickles, Norman: *See—*
Ellison, Ronald; Pritchard, John; and Pickles, Norman,3,459,143.
Pickles, Norman, to Blackburn Electronic Production Controls Ltd. Pattern producing switching device. 3,433,188, 3-18-69, Cl. 112-79.
Pickles, Wilfred: *See—*
Baylis, Eric Keith; Pickles, Wilfred; and Sparrow, Kenneth David,3,441,604.
Pickup, Clive Parnell; and Barton, John R., to International Standard Electric Corporation. D.C. to A.C. power converter. 3,461,372, 8-12-69, Cl. 321-9.
Pickup, Kenneth George: *See—*
Cooper, Leslie Ernest; and Pickup, Kenneth George,3,431,311.
Pico Corporation: *See—*
Reckard, John W., 3,453,857.
Pico, Francisco A. Centrifugal separating apparatus. 3,438,500, 4-15-69, Cl. 210-213.
Pico Safe Stairs Co.: *See—*
Mulitz, Earl, 3,420,504.
Picollo, Giacomo. Automatic coin stacking and wrapping machine. 3,432,983, 3-18-69, Cl. 53-52.
Piconics Incorporated: *See—*
Slenker, Stephen A., 3,474,531.
Picot, Clement: *See—*
Charbonnier, Roger; and Picot, Clement,3,427,868.
Picozzi, Vincent J., to General Electric Company. Drive system for synchronous machine. 3,462,669, 8-19-69, Cl. 318-176.
Pictorial Productions, Inc.: *See—*
Anderson, Kay, 3,468,545.
Pidcock, Herbert A.: *See—*
Otto, John R.; and Pidcock, Herbert A.,3,449,535.
Pidgeon, John S.: *See—*
Pickering, Ralph W.; and Pidgeon, John S.,3,440,155.
Pidoux, Robert: *See—*
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert,3,420,643.
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert,3,457,192.
Piearcey, Barry J., to United Aircraft Corporation. Method of casting by directional solidification. 3,485,291, 12-23-69, Cl. 164-127.
Piecha, Georg; and Langer, Karl, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Exchangeable printing subassembly for a rotary printing press. 3,470,816, 10-7-69, Cl. 101-216.
Piechocki, Benjamin: *See—*
Brewer, Robert F.; and Piechocki, Benjamin,3,476,531.
Piechon, Andre L.: *See—*
Desormiere, Bernard P. L.; Parouty, Jean Claude; and Piechon, Andre L.,3,441,837.
Piegols, Norman L.; and Bon, Charles K., to Dow Chemical Company, The. Removal of halide ions from crude lithium aluminate. 3,447,896, 6-3-69, Cl. 23-52.
Piehl, Bill, 50% to Kelley, Jack B. Gas transport apparatus. 3,479,043, 11-18-69, Cl. 280-5.

Piemontesi, Jean, to Kugler Fonderie et Rolinetterie S.A. Thermostatic devices. 3,469,450, 9-30-69, Cl. 73-368.3
Pien, Hsia S. Compensated semiconductor strain gage transducers. 3,447,362, 6-3-69, Cl. 73-88.5
Piepenbrink, Winfried; and Triller, Adolf, to Sick, Erwin. Photoelectronic apparatus for scanning textile material. 3,474,254, 10-21-69, Cl. 250-219.
Pieper, Rudolf: *See*—
Klein, Heinrich; Weber, Eduard; Pieper, Rudolf; and Hoffmann, Alfred,3,477,569.
Pieper, Wolfgang: *See*—
Diederichs, Artur; and Pieper, Wolfgang,3,461,528.
Piequet, Miriam G.: *See*—
Ritchie, Ralph W.; Ritchie, Fern Joan; and Piequet, Miriam G.,3,478,440.
Pier, Jerome R., to Westinghouse Air Brake Company. Automated control of railway brake equipment having dynamic and air braking. 3,443,842, 5-13-69, Cl. 303-20.
Pierce, Aaron E.: *See*—
Buck, Henry M.; Bruecher, Judith F.; Carlton, Louis A.; and Pierce, Aaron E.,3,431,974.
Pierce, Andrew G., Jr.; and Frick, John G., Jr., to United States of America, Agriculture. Wrinkle-resistant cotton fabrics with improved moisture absorption. 3,441,366, 4-29-69, Cl. 8-116.3
Pierce, Andrew G., Jr.; and Frick, John G., Jr., to United States of America, Agriculture. Method for setting finishes on cellulosic textiles with catalyst composition of magnesium halide and organic acid. 3,441,367, 4-29-69, Cl. 8-116.3
Pierce, Andrew G., Jr.: *See*—
Frick, John G., Jr.; and Pierce, Andrew G., Jr.,3,427,121.
Pierce, Arleen Cecilia; and Lindo, Neil Adams, to Allied Chemical Corporation. Process for the preparation of bisphenols. 3,420,894, 1-7-69, Cl. 260-619.
Pierce, Arleen C.: *See*—
Woolf, Cyril; and Pierce, Arleen C.,3,474,164.
Pierce, Arleen, to Allied Chemical Corporation. Novel N-substituted aziridine composition and method for combating microorganisms therewith. 3,487,157, 12-30-69, Cl. 424-244.
Pierce, Chester J., Jr., to Kliklok Corporation. Construction of a folding box corner, and method of assembly. 3,450,330, 6-17-69, Cl. 229-33.
Pierce, Chester J., Jr., to Kliklok Corporation. Interlocks for folding box panels. 3,481,525, 12-2-69, Cl. 229-35.
Pierce, Chester J., Jr., to Kliklok Corporation. Interlocks for folding box corners. 3,481,526, 12-2-69, Cl. 229-35.
Pierce, Comer C. Dynamic wheel balancing means. 3,464,738, 9-2-69, Cl. 301-5.
Pierce, Dennis G., to Chemetron Corporation, mesne. Welding apparatus employing single power supply for straight and reverse welding polarities. 3,475,585, 10-28-69, Cl. 219-131.
Pierce, Donald, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Fluid ducts. 3,443,598, 5-13-69, Cl. 138-45.
Pierce, Edwin B.: *See*—
Annunziata, Eugene J.; James, Robert S.; King, Lewis E.; and Pierce, Edwin B.,3,432,813.
Pierce, Ernest E. Roll-type closure. 3,430,677, 3-4-69, Cl. 160-264.
Pierce, Everette M., to United States of America, Army. Solid propellant grain with surface bonded burning inhibitor composition of hydroxy-terminated polybutadiene. 3,433,158, 3-18-69, Cl. 102-103.
Pierce, John R., to Bell Telephone Laboratories, Incorporated. Radio receiving apparatus responsive to both electric and magnetic field components of the transmitted signal. 3,475,687, 10-28-69, Cl. 325-305.
Pierce, Joseph E.: *See*—
Christine, William C.; and Pierce, Joseph E.,3,420,407.
Christine, William C.; and Pierce, Joseph E.,3,420,414.
Pierce, Kenneth L.; and James, Robert W., to Cook Paint & Varnish Company. Single package oleoresinous varnish 'C' enamel and process of making same. 3,450,656, 6-17-69, Cl. 260-22.
Pierce, Leonard, Jr.: *See*—
Grimm, Donald C.; and Pierce, Leonard, Jr.,3,472,771.
Grimm, Donald C.; and Pierce, Leonard, Jr.,3,483,123.
Grimm, Donald C.; and Pierce, Leonard, Jr.,3,485,755.
Pierce, Norton T.: *See*—
Montgomery, Donald B.; and Pierce, Norton T.,3,466,579.
Pierce, Norwin Caley, to Du Pont de Nemours, E. I., and Company. Melt spinning apparatus and method. 3,437,725, 4-8-69, Cl. 264-176.
Pierce, Ogden R.: *See*—
Grindahl, George A.; and Pierce, Ogden R.,3,453,275.
Holbrook, George W.; and Pierce, Ogden R.,3,423,445.
Kim, Yung Ki; and Pierce, Ogden R.,3,478,076.
Pierce, Percy E.; and Holsworth, Richard M., to SCM Corporation. Monodisperse latices and process for preparing same. 3,423,351, 1-21-69, Cl. 260-29.6
Pierce, Phillip E.: *See*—
Bostock, James H.; and Pierce, Phillip E.,3,427,989.
Pierce, R. H., Manufacturing Company: *See*—
Gheen, Lyndle G., 3,478,780.
Pierce, Robert M.: *See*—
Pratt, Leonard C.; and Pierce, Robert M.,3,471,731.
Pierce, Robert W., to Sweden Freezer Manufacturing, Co. Absorption tester having ports and trapezoidal enclosure with provision for eliminating bubbles from the optical test path. 3,480,784, 11-25-69, Cl. 250-218.
Pierce, Russell W., to Abcor, Inc., mesne. Apparatus for and method of detecting sulfur- containing compounds. 3,437,446, 4-8-69, Cl. 23-232.
Pierce Specialized Equipment Co.: *See*—
Bishop, Lewis H., 3,454,307.
Bishop, Lewis H., 3,478,666.
Pierce, Stanley L., Jr., to Ford Motor Company. Multiple stage governor valve assembly for establishing a speed-pressure signal. 3,431,928, 3-11-69, Cl. 137-54.
Pierce, Thomas J.: *See*—
Koller, Edward J.; Pierce, Thomas J.; and Polk, Andrew W., Jr.,3,423,085.
Pierce, Warren K., to Goodyear Tire & Rubber Company, The. Polyurethanes and method of making. 3,440,223, 4-22-69, Cl. 260-75.
Pierce, Wellington C.: *See*—
Hawes, Roland J., Jr.; and Pierce, Wellington C.,3,437,075.
Pierce, William B., to United States of America, Atomic Energy Commission. Diode sensors for liquid level detection. 3,465,587, 9-9-69, Cl. 73-295.
Pierce, William S.; Morrow, Andrew G.; and Behrendt, Douglas M., to United States of America, Health, Education and Welfare. Pivoted butterfly type heart valve. 3,448,465, 6-10-69, Cl. 3-1.
Pierce, Willis C., Jr.: *See*—
Normando, Neil J.; and Pierce, Willis C., Jr.,3,475,586.
Pierce-Pacific Manufacturing, Inc.: *See*—
Keinonen, Frank W., 3,426,918.
Keinonen, Frank W., 3,472,527.
Pierco, Incorporated: *See*—
Piercy, Paul L., 3,460,864.
Piercy, Charles Knoefel: *See*—
Joyner, Austin; and Piercy, Charles Knoefel,3,454,697.
Piercy, Paul L., to Pierco, Incorporated. Collapsible truck rack. 3,460,864, 8-12-69, Cl. 296-3.
Piercy, Samuel Allen: *See*—
Duncan, William Joseph; Fisher, Charles Frank; Moye, Frank Houston; and Piercy, Samuel Allen,3,457,341.
Pierdet, Andre: *See*—
Bertin, Daniel; and Pierdet, Andre,3,478,067.
Bertin, Daniel; and Pierdet, Andre,3,484,462.
Bertin, Daniel; Pierdet, Andre; Nedelec, Lucien; and Gasc, Jean-Claude,3,472,884.
Nomine, Gerard; Bucourt, Robert; Pierdet, Andre; and Snozzi, Candido,3,444,297.
Pieren, Heinz; and Toptani, Ilias, to Topia SA. Anti-lock device for the braked wheels of motor vehicles. 3,466,098, 9-9-69, Cl. 303-21.
Pierini, Giancarlo: *See*—
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,669.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,670.
Pierman, Martin J.; Donath, Edwin W.; and Ernst, Otto A., to Alnor Instrument Company. Air velocity measuring apparatus. 3,463,003, 8-26-69, Cl. 73-189.
Piernik, Edward. Automatic underwater 'and' gate switch. 3,437,770, 4-8-69, Cl. 200-61.47
Piero, Barozzi Gian; and Giancarlo, Horeschi, to Citizen Watch Co., Ltd. Printing device with zero-position selecting mechanism. 3,458,124, 7-29-69, Cl. 235-58.
Piero, Barozzi Gian; and Giancarlo, Horeschi, to Citizen Watch Co., Ltd. Simultaneous transfer mechanism for calculating machines. 3,469,778, 9-30-69, Cl. 235-137.
Piero, Barozzi Gian; and Giancarlo, Horeschi, to Citizen Watch Co., Ltd. Simultaneous transfer mechanism for calculating machines. 3,482,775, 12-9-69, Cl. 235-137.
Pieroh, Ernst Albrecht: *See*—
Boroschewski, Gerhard; and Pieroh, Ernst Albrecht,3,481,951.
Pierpoint, Edward Keith: *See*—
Biggon, Robert Muir; and Pierpoint, Edward Keith,3,445,418.
Patton, Robert; and Pierpoint, Edward Keith,3,439,014.
Pierpont, Roger L.; and Rumanowski, Edmund J., to Allied Chemical Corporation. Herbicidal composition and method. 3,468,656, 9-23-69, Cl. 71-122.
Pierrat, Jean, to Societe Anonyme des Ateliers de Aviation Louis Breguet. Apparatus for storing information elements. 3,440,610, 4-22-69, Cl. 340-172.5
Pierrat, Jean, to Societe Anonyme des Ateliers d'Aviation Louis Breguet. Apparatus for adjusting the position of the optical axis of a projector with respect to a screen. 3,455,630, 7-15-69, Cl. 353-70.

Pierre, Jean-Louis: *See—*
Quanquin, Bernard; Le Clerc, Georges Marie; and Pierre, Jean-Louis,3,475,195.

Pierrel, Michel, to Centre de Recherches de Pont-a-Mousson. Rotary mold coating machine. 3,452,713, 7-1-69, Cl. 118-308.

Pierret, James A., to Fansteel Inc. Method of making tantalum metal powder. 3,473,915, 10-21-69, Cl. 75-0.5

Pierret, Jean Marc, to International Business Machines Corporation. Apparatus for carrier phase correction. 3,435,343, 3-25-69, Cl. 325-389.

Pierro, John J., to North American Rockwell Corporation. Linear electric motor. 3,456,136, 7-15-69, Cl. 310-12.

Pierro, John J.; and Russell, Lewis B., to North American Rockwell Corporation. Speed control system for a dynamo-electric machine. 3,448,363, 6-3-69, Cl. 318-197.

Pierrot, Andre; and Lescroel, Yves, to International Telephone and Telegraph Corporation. High permeability ferromagnetic ferrite materials. 3,424,685, 1-28-69, Cl. 252-62.6

Pierrot, Francois: *See—*
Lehureau, Jean; and Pierrot, Francois,3,426,064.

Pierrot, Robert: *See—*
Le Parquier, Guy; and Pierrot, Robert,3,430,246.

Pierson, Charles F.; Benjamin, John W.; and Holland, Edward T., Jr., to Farmhand, Inc. Apparatus for forming pellets. 3,452,393, 7-1-69, Cl. 18-12.

Pierson, Charles W.: *See—*
Lindenmuth, Terry N.; and Pierson, Charles W.,3,443,093.
Sutliff, Robert C.; Burgo, Paul A.; Butler, Ernest J.; and Pierson, Charles W.,3,431,380.

Pierson, Darrell E.: *See—*
Oita, Katashi; Pierson, Darrell E.; Ottaway, James N.; and Caster, Richard W.,3,428,024.

Pierson, Edward D.; and Wright, James C., to Miner-Denver, Inc. Article hoist and lateral transfer mechanism. 3,481,499, 12-2-69, Cl. 214-730.

Pierson, Edward G.: *See—*
Haefner, Arthur E.; Pierson, Edward G.; and Jankowiak, Roman,3,473,543.

Pierson, Marvin B.: *See—*
Oganowski, Kasimir; and Pierson, Marvin B.,3,429,164.

Pierson, Raymond G., Jr., to Hedstrom Union Company. Children's play seat. 3,427,071, 2-11-69, Cl. 297-258.

Pierson, Rilla May Curtis: *See—*
Pierson, William D., Jr.,3,465,914.

Pierson, Robert M.: *See—*
Bauer, Richard G.; Bletso, Nelson C.; Mast, William C.; and Pierson, Robert M.,3,475,516.

Pierson, Roland L.: *See—*
Kelly, Charles A.; and Pierson, Roland L.,3,443,227.

Pierson, Walter: *See—*
Reh, Lothar; Maurer, Roland; Pierson, Walter; and Peinemann, Bodo,3,449,062.

Pierson, William D., Jr., deceased0 (by Pierson, Rilla May Curtis; administratrix), to General Electric Company. Concealed trim clamp for electrical panelboards and telephone cabinets. 3,465,914, 9-9-69, Cl. 220-24.3

Pietenpol, Kermit W.; and Schober, Wayne E., to Viking of Minneapolis. Quick connect electrical connector. 3,431,543, 3-4-69, Cl. 339-254.

Pietka, Robert J.: *See—*
Barnett, Burton; Moisson, George; and Pietka, Robert J.,3,442,479.

Pietkiewicz, Eugene R.: *See—*
Creveling, Marion A., 3,420,027.

Pietronuto, Joseph A.; and Sands, Robert. Baseball bat choke device. 3,469,839, 9-30-69, Cl. 273-25.

Pietrowicz, Ambrose L.: *See—*
Good, Louise L.; Whitney, Robert L.; Good, Raymond B.; and Pietrowicz, Ambrose L.,3,436,322.

Pietrucci, Andre, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for separating the parenchyma from the woody portions of plant leaves and, in particular, tobacco leaves. 3,450,139, 6-17-69, Cl. 131-146.

Pietrucha, Herbert: *See—*
Herbst, Hagen; Kleedehn, Eckhart; and Pietrucha, Herbert,3,478,462.

Pietrusza, Edward W.; Pedersen, Jack R.; and Piter, Rudolph, to Allied Chemical Corporation. Amino acid copolymers. 3,438,948, 4-15-69, Cl. 260-78.

Pietrusza, Edward W.; and Pinter, Rudolph, to Allied Chemical Corporation. e-Caproimido pyridazines. 3,445,459, 5-20-69, Cl. 260-239.3

Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R., to Allied Chemical Corporation. Anionic polymerization of lactams with symmetrical triazine as cocatalyst. 3,448,085, 6-3-69, Cl. 260-78.

Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R. 2,4,6-Tri-(epsilon-caproimido) sym. triazine. 3,485,822, 12-23-69, Cl. 260-239.3

Pietrzak, Joe P., to General Motors Corporation. Mold with suction holders for confections. 3,423,061, 1-21-69, Cl. 249-92.

Pietrzak, Joe P., to General Motors Corporation. Freezing tray with chain ice chipper. 3,466,890, 9-16-69, Cl. 62-320.

Pietrzak, Joe P., to General Motors Corporation. Tray and grid with grooves. 3,480,251, 11-25-69, Cl. 249-127.

Pietrzak, Joe P.; and Strahan, Robert M., to General Motors Corporation. Combination freezing tray and grid. 3,475,921, 11-4-69, Cl. 62-320.

Pietsch, Doris: *See—*
de Bucs, Eugen Szabo; Oesterhelt, Gerhard; and Pietsch, Doris,3,441,812.

Pietsch, Guenter: *See—*
Frost, Herbert; Pietsch, Guenter; and Grosse, Karl,3,483,668.

Pietsch, Joseph A., to General Electric Company. Air conditioner including vent control means. 3,477,211, 11-11-69, Cl. 55-418.

Pietsch, Kerwyn L.: *See—*
Forrester, Robert A.; and Pietsch, Kerwyn L.,3,463,755.

Pietsch, Raymond L., to Engineered Products Company, The. Magnetic catch assembly. 3,427,058, 2-11-69, Cl. 292-251.5

Pietsch, Roy: *See—*
Lockenvitz, Arthur; Longwell, Charles R.; and Pietsch, Roy,3,452,296.

Pifer Industries, Inc.: *See—*
Pifer, Lewis W.; and Pifer, Robert T. A., 3,425,581.

Pifer, Lewis W.; and Pifer, Robert T. A., to Pifer Industries, Inc. Cigarette tray. 3,425,581, 2-4-69, Cl. 220-4.

Pifer, Robert T. A.: *See—*
Pifer, Lewis W.; and Pifer, Robert T. A.,3,425,581.

Piffath, Ralph P.: *See—*
Hanson, Alfred H., 3,467,140.

Piffath, Rodney S.; and Norstedt, Gustav H. Lighter unit. 3,472,599, 10-14-69, Cl. 431-150.

Piffath, Rodney S.; and Norstedt, Gustave H. Gas fueled torch. 3,471,246, 10-7-69, Cl. 431-150.

Pifferi, Giorgio: *See—*
Borbonese, Mario; De Ros, Angelo; and Pifferi, Giorgio,3,461,040.

Pifferi, Giorgio; and Testa, Emilio, to Lepetit S.p.A. 4-Substituted-2,3-benzoxazines. 3,476,752, 11-4-69, Cl. 260-244.

Pig Design Corp.: *See—*
Berg, Winfred M., 3,436,801.

Pigan, Edward A.: *See—*
Wallace, James B.; Hamilton, William W., Jr.; and Pigan, Edward A.,3,482,202.

Pigeon, Dale W.; and Root, Walter C., to General Motors Corporation. Manual code pulsing magnetic reed switch. 3,477,046, 11-4-69, Cl. 335-190.

Piget, Maurice. Metal panels. 3,456,409, 7-22-69, Cl. 52-282.

Piggin, Bruce P.: *See—*
Lenoble, Jean P.; Addy, John; and Piggin, Bruce P.,3,442,683.

Piggush, Henry H. Collapsible tube support and coiler. 3,463,359, 8-26-69, Cl. 222-103.

Pigment-Chemie, G.m.b.H.: *See—*
Rohrborn, Hans-Joachim; Clausen, Heinrich; Grassmann, Wolfgang; and Valet, Gerhard, 3,432,324.

Pignal, Edmond, to Biraghi (Societe Anonyme). Gilled pipes for heat exchange. 3,434,533, 3-25-69, Cl. 165-183.

Pignal, Edmond, to Biraghi (Societe Anonyme). Method of and apparatus for making finned tubes. 3,436,517, 4-1-69, Cl. 219-124.

Pignone, Joseph, to Beseler, Charles, Company. Film carrier. 3,469,917, 9-30-69, Cl. 355-72.

Pignone, Joseph, to Beseler, Charles, Company. Photographic enlarger. 3,486,807, 12-30-69, Cl. 355-62.

Piguet, Albert, to Fabrique d'Horlogerie Lemania, Lugrin S.A. Zero reset mechanism for timepieces measuring time intervals. 3,430,434, 3-4-69, Cl. 58-74.

Piguet, Pierre, to Ateliers des Charmilles S.A. Hydraulic machine. 3,463,453, 8-26-69, Cl. 253-26.

Pihl, George E., to Miniature Electronic Components Corp. Hall-effect instrument for measuring the RMS value of an A.C. signal. 3,422,351, 1-14-69, Cl. 324-117.

Pihl, George E., to Miniature Electronic Components Corp. Quantizer. 3,436,752, 4-1-69, Cl. 340-347.

Pihl, George E., to Miniature Electronic Components Corp. Electromagnetic indicator having control magnets as stop members. 3,451,055, 6-17-69, Cl. 340-373.

Pihl, George E., to Miniature Electronic Components Corp. Progammable digital time switching system. 3,456,123, 7-15-69, Cl. 307-141.

Pihl, George E., to Miniature Electronic Components Corp. Electromagnetic indicator having plural magnetically interacting indicator elements. 3,465,333, 9-2-69, Cl. 340-373.

Pihl, George E., to Miniature Electronic Components Corp. Electromagnetic indicator having rotating spheres. 3,487,403, 12-30-69, Cl. 340-373.

Pihl, George E.; and Tilley, Richard B., to Miniature Electronic Components Corp. Plural magnet latching electromagnetic indicators. 3,425,055, 1-28-69, Cl. 340-373.

Pihlblad, Karl Erik; and Wagner, Anton Robert, to Nyby Bruks Aktiebolag. Method for refining a metal. 3,468,657, 9-23-69, Cl. 75-59.
Piirma, Aleksander, to Goodyear Tire & Rubber Company, The. Method of preparing linear condensation polyester resins having improved stability. 3,428,587, 2-18-69, Cl. 260-22.
Pijpers, Franciscus W.; and Starmans, Maria M.J.J., to Shell Oil Company. Alkali on a support promoted by iron or iron and antimony in sulfur dioxide removal. 3,428,575, 2-18-69, Cl. 252-464.
Pike, Albert M., Jr. Beverage dispenser and method of refilling. 3,435,990, 4-1-69, Cl. 222-1.
Pike, Charles A.; and Woodland, Norman J., to International Business Machines Corporation. Fibre deflection means. 3,470,320, 9-30-69, Cl. 178-7.6
Pike Corporation of America: *See—*
Rasmussen, George; and Spellmire, Robert J., 3,432,857.
Pike, Daniel E., to American Air Filter Company, Inc. Gas draft apparatus. 3,460,819, 8-12-69, Cl. 266-31.
Pike, Harold S., Jr.: *See—*
Goldsmith, Bernard M.; Pike, Harold S., Jr.; and Belanger, Ernest Donald,3,423,674.
Pike, John A.: *See—*
Shriver, William F.; Sanders, John T., III; Pike, John A.; and Angle, Henry W.,3,472,042.
Pike, John E.: *See—*
Beal, Philip F., III; Lincoln, Frank H., Jr.; and Pike, John E.,3,435,053.
Pike, John E.; and Schneider, William P., to Upjohn Company, The. Novel 16-oxo-21-oic acid disubstituted amides of the pregnane series. 3,436,388, 4-1-69, Cl. 260-239.5
Jackson, Robert W.; and Pike, John E.,3,435,029.
Pike, Kenneth R.; Wilcox, Quentin I.; and Cooper, Allen E., to Chrysler Corporation. Inboard-outboard drive. 3,430,604, 3-4-69, Cl. 115-41.
Pike, Malcolm Roy, to Rolls-Royce Limited. Supersonic intake for a jet engine. 3,439,692, 4-22-69, Cl. 137-15.2
Pike, Malcolm Roy; and Bragg, Stephen Lawrence, to Rolls-Royce Limited. Supersonic intake for a jet propulsion engine. 3,483,881, 12-16-69, Cl. 137-15.2
Pike, Sophia E. Powder dispensing glove. 3,473,699, 10-21-69, Cl. 222-105.
Piker, Herbert M., to Hamilton-Skotch Corporation, The. Method of making an insulated container. 3,467,562, 9-16-69, Cl. 156-69.
Pikhtovnikov, Rostislav Vyacheslavovich: *See—*
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.
Pikor, Jerome W.: *See—*
Elyosius, Peter V.; and Pikor, Jerome W.,3,422,256.
Pikorz, Wolfgang: *See—*
Ehinger, Herbert; and Pikorz, Wolfgang,3,473,959.
Pikula, Joseph E., to Union Carbide Corporation. Silicone sized paper and cellulosic fiber. 3,438,807, 4-15-69, Cl. 117-154.
Pikula, Joseph E., to Union Carbide Corporation. Textile materials coated with hydrolytically stable siloxane-oxyalkylene block copolymers containing SiH. 3,445,276, 5-20-69, Cl. 117-138.8
Pilaar, Jan Carel. Pavement. 3,421,417, 1-14-69, Cl. 94-11.
Pilarczyk, Karol, to De Laval Turbine, Inc. Collection and imput apparatus for a bath undergoing gravitational classification. 3,465,886, 9-9-69, Cl. 210-520.
Pilato, Joseph Michael: *See—*
McDaniel, Carl Vance; Maher, Philip Kenerick; and Pilato, Joseph Michael,3,472,617.
Pilcher, David W., to Bowen Tools, Inc. Transmission assembly. 3,475,991, 11-4-69, Cl. 74-758.
Pilcher, Robert M.: *See—*
Jamison, Warner A.; and Pilcher, Robert M.,3,442,249.
Pilette, Michel: *See—*
Rouyer, Georges; and Pilette, Michel,3,458,684.
Pilger, Nicholas J., to American Hospital Supply Corporation. Package for sterile medical catheter. 3,485,352, 12-23-69, Cl. 206-63.2
Pilgram, Kurt H. G.: *See—*
Haynes, George R.; McBeth, Clyde W.; Pilgram, Kurt H. G.; and White, Lyle V.,3,454,682.
Slott, Robert S.; Bell, Edward R.; and Pilgram, Kurt H. G.,3,478,044.
Pilgrim, Ollie P., to Allen Electric and Equipment Company. Automotive testing center. 3,439,534, 4-22-69, Cl. 73-117.
Pilgrim, William S.: *See—*
Moore, William C.; and Pilgrim, William S.,3,439,978.
Pilia, Frank J.: *See—*
Allen, John P. C.; Bone, John D.; and Pilia, Frank J.,3,443,057.
Pilipovich, Donald, to North American Rockwell Corporation. Perhaloethoxy difluoroamines. 3,440,251, 4-22-69, Cl. 260-350.
Pilkington Brothers Limited: *See—*
Baker, Henry W., 3,429,682.
Baker, Henry W., 3,429,685.
Barradell-Smith, Richard; Hall, James Edward; and Roby, James, 3,480,160.
Beattie, John Reginald; and Ogilvie, Alan Graham, 3,427,109.
Beattie, John Reginald, 3,469,963.
Brewin, John Dennis, 3,457,055.
Bullock, Cyril Leslie, 3,456,985.
Butler, Kenneth James; and Merryweather, Robin Arnold, 3,453,460.
Charnock, Harold, 3,420,647.
Dickinson, George Alfred; Morgan, John Henry; Thomas, James Edward Celfyn; and Oxley, Brian William, 3,433,612.
Dickinson, George Alfred; and Preston, Anthony, 3,433,614.
Dickinson, George Alfred; and Griffith, Charles Fitzroy, 3,445,217.
Dickinson, George Alfred; and Sift, Brian Stanley, 3,481,727.
Jago, John J.; and Roberts, Deryck T., 3,473,905.
Jago, John James, 3,444,737.
Lawrenson, Jack, 3,485,617.
Loukes, David Gordon; and Smith, Roy, 3,423,197.
Loukes, David Gordon; and Buckley, Edward Albert, 3,438,760.
Loukes, David Gordon; and Hardman, James Maurice, 3,453,095.
Loukes, David Gordon; and Nightingale, Glen, 3,467,508.
Loukes, David Gordon; and Merryweather, Robin Arnold, 3,467,512.
Loukes, David Gordon; and Hay, Alan Edward, 3,480,420.
Loukes, David Gordon; and Robinson, Albert Sidney, 3,486,877.
Lowe, Albert Henry, 3,467,430.
Nightingale, Jack Warwick, 3,484,956.
Nixon, John L., 3,485,351.
Ormesher, Edward Russell, 3,445,214.
Owen, David Edward, 3,469,962.
Reid, Alexander Mailer; Parry, Richard John; and Burrows, Michael Eastoe, 3,480,453.
Richardson, Donald Arthur; and Waters, John Robert, 3,466,985.
Robinson, Albert Sidney; and Lawrenson, Jack, 3,468,653.
Robinson, Albert Sidney; and Lawrenson, Jack, 3,479,171.
Wilde, Dennis; and Jack, Harry Ross Scarlett, 3,473,910.
Yuen, Ng Wing, 3,482,954.
Pilkuhn, Manfred: *See—*
Rupprecht, Hans Stephan; and Pilkuhn, Manfred,3,479,613.
Pillar Corporation: *See—*
Landis, James P., 3,448,233.
Pillard, Claude, to Centre Technique du Cuir. Treating drum. 3,426,557, 2-11-69, Cl. 69-30.
Pillard, Claude: *See—*
Jullien, Irenee; and Pillard, Claude,3,422,642.
Piller, Bernhard: *See—*
Anderau, Walter; Mory, Rudolf; and Piller, Bernhard,3,454,402.
Piller, Bernhard, to Ciba Limited. Photographic materials for the silver dyestuff bleaching process. 3,455,695, 7-15-69, Cl. 96-99.
Piller, Bernhard; and Oetiker, Alfred, to Ciba Limited. Process for the production of colored photographic images. 3,429,705, 2-25-69, Cl. 96-53.
Piller, Jacob P. Self-oiling means for saw chain links. 3,478,787, 11-18-69, Cl. 143-135.
Pillersdorf, Arthur. Multi-linear nozzle ballistic attenuator of recoil, blast and flash. 3,455,203, 7-15-69, Cl. 89-14.
Pilletere, Philip, Jr.: *See—*
Chapman, Roger S., Jr.; and Pilletere, Philip, Jr.,3,481,488.
Pillich, Wojciech. Metal structure tensioning system for crane devices and rope arrangement therefor. 3,477,590, 11-11-69, Cl. 212-63.
Pillifant, Thomas G.: *See—*
Fresch, Eugene E.; Nakrin, Jerome; and Pillifant, Thomas G.,3,469,433.
Pilling, Brian, to Monsanto Company. Electrical conducting properties of acrylic substrates by incorporating therein a quinone compound. 3,440,220, 4-22-69, Cl. 260-65.
Pilling, Brian, to Monsanto Company. Electrical conducting properties of acrylic substrates by incorporation therein of a triazine compound. 3,478,006, 11-11-69, Cl. 260-85.5
Pilling, Brian, to Monsanto Company. Process for improving lightfastness of an acrylic polymer by incorporating therein an alicylic dione compound and product produced from such process. 3,487,042, 12-30-69, Cl. 260-41.
Pilling Chain Co., Inc.: *See—*
Harlam, Gerald F.; and Okolowicz, Marian A., 3,421,924.
Pilling, David J.; and Dumesnil, Maurice E., to Fairchild Camera and Instrument Corporation. Selective masking method of silicon during anodization. 3,432,405, 3-11-69, Cl. 204-15.
Pillon, Lucien: *See—*
Chaplais, Henri; Pillon, Lucien; Carre, Georges P.; Rips, Lucien; and Gambette, Rene,3,423,152.
Pilloton, Roger L.: *See—*
Bowman, Richard A.; and Pilloton, Roger L.,3,422,167.
Pillsbury Company, The: *See—*
Durst, Jack R., 3,431,112.

Durst, Jack R., 3,434,843.
Ferguson, Robert B.; and Westover, Jack D., 3,436,311.
Fritzberg, Edward L., 3,449,131.
Galle, Edward L., 3,434,410.
Galle, Edward L., 3,454,263.
Ganske, Warren L.; Stein, Jolyon A.; Gidlow, Rolf G.; and McCarron, Fred H., 3,433,644.
Gidlow, Rolf G., 3,462,849.
Gidlow, Rolf Gunnar, 3,458,941.
Halleck, Frank E.; and Smith, Fred, 3,423,288.
Halleck, Frank E., 3,447,940.
Katz, Morris H., 3,434,848.
Katz, Morris H.; and Henry, William F., 3,463,014.
Merchlewitz, Anthony W., 3,434,631.
Patrick, Ronald J.; and Sautier, Philip M., 3,471,603.
Reid, Francis R., 3,427,783.
Reid, Francis R.; Draper, James E.; and Jones, Selwyn, 3,458,970.
Shea, Richard A., 3,459,560.
Thelen, Roman J., 3,479,188.
Weiner, Rubin; and Hegart, Gerald R., 3,447,934.
Westover, Jack D.; and Ferguson, Robert B., 3,436,346.
Wilhelm, Max G., 3,480,057.
Zempel, Gary R., 3,427,910.

Pilot Incorporated: *See*—
Gal, Martin, 3,472,529.

Pilot Man-Nen-Hitsu Kabushiki Kaisha: *See*—
Kan, Masao; Hyodo, Hiroshi; Watanabe, Akio; and Enami, Shigekazu, 3,432,327.
Yanagisawa, Akimasa; Kanbe, Kenichi; Sano, Tsunenori; and Ishii, Tadashi, 3,427,112.

Pilot Research Corporation: *See*—
Silvain, Andre Henri, 3,479,844.

Pilsworth, Edward A.: *See*—
Owens, James M.; Graham, James L.; and Pilsworth, Edward A.,3,469,987.

Pilvet, Aksel: *See*—
Bennett, Bernard, 3,485,068.

Pilvet, Aksel, 2/3 to Knaul, Sigmund. Lock mechanisms and keys therefor. 3,485,069, 12-23-69, Cl. 70-360.

Pilvet, Aksel, 2/3 to Knaul, Sigmund. Lock mechanisms and keys therefor. 3,486,353, 12-30-69, Cl. 70-363.

Pilz, Alfred: *See*—
Pfeiffer, Erich; and Pilz, Alfred,3,463,093.

Pilz, Siegfried Walter: *See*—
Offermann, Peter Rudolf; Pilz, Siegfried Walter; and Sonntag, Peter Erich,3,456,461.

Pim, Norman Lester, to Bliss, E. W., Company. Downender for transferring coils. 3,441,148, 4-29-69, Cl. 214-1.

Pimental, Demetrio. Outlet box with cover and mounting means therefor. 3,424,332, 1-28-69, Cl. 220-3.6

Pimentel, Demetrio. Outlet box with cover and mounting clips therefor. 3,424,333, 1-28-69, Cl. 220-3.6

Pimlott, John Rex, Jr.: *See*—
Pimlott, John Rex; and Pimlott, John Rex, Jr.,3,452,229.

Pimlott, John Rex; and Pimlott, John Rex, Jr. Modular inductor alternator. 3,452,229, 6-24-69, Cl. 310-168.

Pinaire, Lonnie W., to General Electric Company. Split plug vectorable exhaust nozzle. 3,424,382, 1-28-69, Cl. 239-265.25

Pinard, Kenneth E., to United States Time Corporation, The. Gyroscope and its method of manufacture. 3,466,934, 9-16-69, Cl. 74-5.

Pinault, Jacques Gilbert; Lallet, Jean Paul; and Carbonnel, Henri Amedee Basile, to Societe Anonyme: Groupement Atomique Alsacienne Atlantiques (G.A.A.A.). Remote-controlled alarm networks. 3,435,145, 3-25-69, Cl. 179-2.

Pinault, Jacques: *See*—
Martin, Jean Antoine; Mauguen, Pierre; and Pinault, Jacques,3,471,194.

Pincince, Richard T.: *See*—
Torrenzano, Archie P.; and Pincince, Richard T.,3,475,218.

Pinckaers, Balthasar H., to Honeywell, Inc. Modulating control apparatus. 3,428,784, 2-18-69, Cl. 219-486.

Pinckaers, Balthasar H., to Honeywell, Inc. Spark igniter. 3,428,823, 2-18-69, Cl. 307-106.

Pinckaers, Balthasar H., to Honeywell Inc. Modulating condition control system. 3,443,124, 5-6-69, Cl. 307-252.

Pinckaers, Balthasar H., to Honeywell Inc. Controlled rectifier triggering circuit. 3,466,502, 9-9-69, Cl. 313-238.

Pinckaers, Balthasar H., to Honeywell Inc. Temperature control system. 3,482,776, 12-9-69, Cl. 236-78.

Pinckard, Charles P. Apparatus for classifying, cleaning and collecting culinary items. 3,486,939, 12-30-69, Cl. 134-62.

Pinckney Molded Plastics, Inc.: *See*—
Sanders, Ellsworth E., 3,481,507.

Pincus, Bruce R., to United States of America, National Aeronautics and Space Administration. Scanning aspect sensor employing an apertured disc and a commutator. 3,433,961, 3-18-69, Cl. 250-203.

Pincus, Ralph M., to Bendix Corporation, The. Direct current amplifier. 3,427,560, 2-11-69, Cl. 330-69.

Pincus, Seymour; and Krakauer, Edwin G., to Kay Manufacturing Corp. Anticlogging breathable mold and method. 3,431,331, 3-4-69, Cl. 264-45.

Pindjak, Leo J.: *See*—
Hopkins, Arnold R.; and Pindjak, Leo J.;3,478,683.

Pine, Donald A. Baseboard protecting shield. 3,422,798, 1-21-69, Cl. 118-504.

Pine, Lloyd A., to Esso Research and Engineering Company. Process for producing esters of acrylic acids. 3,442,934, 5-6-69, Cl. 260-486.

Pine, Lloyd A., to Esso Research and Engineering Company. Direct production of esters from alcohols. 3,452,067, 6-24-69, Cl. 260-410.9

Pine, Lloyd Albert: *See*—
Moritz, Karsten Herbert; Pine, Lloyd Albert; and Ellert, Henry George,3,442,877.

Pine, Lloyd Albert, to Esso Research and Engineering Company. Decarboxylation. 3,476,803, 11-4-69, Cl. 260-526.

Pine, Lloyd Albert; Ellert, Henry George; and Drushel, Harry Vernon, to Esso Research and Engineering Company. Direct production of acrylate esters from acrylic acids. 3,442,935, 5-6-69, Cl. 260-486.

Pine, Lloyd Albert; Moritz, Karsten Herbert; and Ellert, Henry George, to Esso Research and Engineering Company. Two stage hydrogenation process (11). 3,484,421, 12-16-69, Cl. 260-82.

Pine, Robert M., to Uarco Incorporated. Stationery burster. 3,484,031, 12-16-69, Cl. 225-100.

Pinel, Jacques: *See*—
Le Boutet, Hubert; and Pinel, Jacques,3,448,263.

Pinelli, Italo Camera: *See*—
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez,3,462,538.

Pinelli S.p.A.: *See*—
Priaroggia, Paolo Gazzana, 3,485,930.

Pines Engineering Co., Inc.: *See*—
Beckwell, George F., 3,442,113.
Beckwell, George F., 3,464,247.
Kraujalis, Felix, 3,429,191.
Troyanski, Constantin, 3,462,985.

Pingitore, Domenick C.; Spagnuolo, Angelo; and Ricci, John N. Presser foot assemblage. 3,433,192, 3-18-69, Cl. 112-235.

Pingitore, Domenick C.: *See*—
Zober, Walter; Ricci, John N.; and Pingitore, Domenick C.,3,451,057.

Pingree, Samuel J.; and Batman, George A., to Fouke Company, The. Method for processing animal pelts. 3,435,641, 4-1-69, Cl. 69-22.

Pini, Giancarlo: *See*—
Fischer, Wilfried; and Pini, Giancarlo,3,484,294.

Pinkalla, Hamilton A.: *See*—
Bauer, Clifford D.; Neuser, Gerald L.; and Pinkalla, Hamilton A.,3,483,004.

Pinkas, David. Pick array. 3,438,486, 4-15-69, Cl. 206-56.

Pinkas, Peter F., to Borg-Warner Corporation. Rotary seals. 3,479,039, 11-18-69, Cl. 277-30.

Pinkava, Jan, to Ceskoslovenska akademie ved. Continuous filtration centrifuge. 3,441,144, 4-29-69, Cl. 210-370.

Pinkel, Isadore I.: *See*—
Olsen, William A., Jr.; and Pinkel, Isadore I.,3,429,058.

Pinkerton, Henry Latta; Graham, Arthur Kenneth; and Ward, Alphonsus Edward, to Graham, Arthur Kenneth, mesne. Method and apparatus of concentrating solutions. 3,463,215, 8-26-69, Cl. 159-10.

Pinkham, Jesse R., to Reynolds, R. J., Tobacco Company. Loose granular filter making machine. 3,464,324, 9-2-69, Cl. 93-1.

Pinkham, Jesse R.; Payne, Leslie E.; Michal, David H.; and McArthur, Colin S., to Reynolds, R. J., Tobacco Company. Tipped smoking article inspection. 3,456,787, 7-22-69, Cl. 209-73.

Pinkham, Jesse R.; and Sherrill, Joseph H., to Reynolds, R. J., Tobacco Company. Integral inline granular filter cigarette machine. 3,464,421, 9-2-69, Cl. 131-61.

Pinkham, Jesse R.: *See*—
Sherrill, Joseph H.; and Pinkham, Jesse R.,3,446,413.
Sherrill, Joseph H.; and Pinkham, Jesse R.,3,481,098.

Pinkham, Newell W. Material handling apparatus. 3,476,126, 11-4-69, Cl. 134-60.

Pinkman, Edward E.; and Elder, Keith A. Automobile visor mounted road map. 3,462,867, 8-26-69, Cl. 40-85.

Pinkston, Jack L.: *See*—
Murph, Donald Bentley; and Pinkston, Jack L.,3,453,150.

Pinkston, John T., Jr.; and Milbourne, Charles Gordon, to United Engineering & Constructors Inc. Manufacture of gas rich in hydrogen and in oxides of carbon. 3,429,677, 2-25-69, Cl. 48-196.

Pinkston, John T., Jr.: *See*—
Milbourne, Charles Gordon; and Pinkston, John T., Jr.,3,420,641.
Milbourne, Charles Gordon; and Pinkston, John T., Jr.,3,429,678.

Pinnegar, Michael Alan, to Brewing Patents Limited. Continuous beer making process wherein the wort and yeast are separated by a porous partition. 3,425,839, 2-4-69, Cl. 99-31.
Pinney, Baden McDowall, to Du Pont de Nemours, E. I., and Company, mesne. Apparatus for mixing viscous fluids discharging from a screw pump. 3,433,463, 3-18-69, Cl. 259-7.
Pinnington, Clive: *See—*
Short, Richard T.; and Pinnington, Clive,3,438,817.
Pino, Florencio; and Ryan, Harry. Envelope flap reversing attachment. 3,474,712, 10-28-69, Cl. 93-62.
Pino, Manuel A.: *See—*
Peeler, Robert L.; and Pino, Manuel A.,3,487,020.
Pino, Piero: *See—*
Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio,3,435,017.
Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio,3,438,956.
Natta, Guilio; Pino, Piero; and Mazzanti, Giorgio,3,435,018.
Pino, Piero; Braca, Giuseppe; and Sbrana, Glauco, to Lonza Ltd. Preparation of hydroquinone. 3,459,812, 8-5-69, Cl. 260-621.
Pino, Piero; and Braca, Guiseppe, to Lonza Ltd. Preparation of trimeric ruthenium tetracarbonyl. 3,446,591, 5-27-69, Cl. 23-203.
Pins, Germain G., to Thermolyne Corporation. Thermostatically controlled electrically heated clinical blood warmer. 3,475,590, 10-28-69, Cl. 219-302.
Pinsly,wiliam. Automatic apparatus for cooking food. 3,456,578, 7-22-69, Cl. 99-339.
Pinson, John C., to North American Rockwell Corporation. Optical monitor mechanization for minimizing guidance system errors. 3,483,384, 12-9-69, Cl. 250-203.
Pint, Norman L. Archery bow spring-biased plunger. 3,482,563, 12-9-69, Cl. 124-24.
Pintarelli, Ralph. Self-adjusting ear clip. 3,465,542, 9-9-69, Cl. 63-14.
Pintell, Robert H., to Intron International, Inc. Multiple-output power supply. 3,461,310, 8-12-69, Cl. 307-151.
Pinter, Henry J., 25% to Schick, George E. Alloy coated carbon and graphite members having conductors soldered thereto. 3,484,210, 12-16-69, Cl. 29-195.
Pinter, Rudolph: *See—*
Pietrusza, Edward W.; and Pinter, Rudolph,3,445,459.
Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R.,3,448,085.
Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R.,3,485,822.
Pinto, Anthony; Cornish, Arthur H.; Leonard, Eugene; Wolf, Edgar; and Lau, Edward H., to Otis Elevator Company. Material handling and storage system. 3,441,713, 4-29-69, Cl. 235-61.6
Pinto, Herbert. Air cleaning device. 3,483,677, 12-16-69, Cl. 55-316.
Pinto, Olympio F., to Bioengionics, Inc., mesne. Under-water diving equipment. 3,433,222, 3-18-69, Cl. 128-142.2
Pinto, Patrick J., to Young, William E. Bag holder. 3,439,891, 4-22-69, Cl. 248-100.
Pinto, Patrick J.: *See—*
Young, William E.; Pinto, Patrick J.; and Wolfelsperger, Robert O.,3,484,855.
Pintschovius, Ulrich: *See—*
Schinzel, Erich; Pintschovius, Ulrich; and Lebkucher, Karl Heinz,3,427,307.
Pinzke, Herbert. Display stand and method for making same. 3,432,953, 3-18-69, Cl. 40-124.1
Pioch, Robert J. Tilt-dump vehicle with stabilizing means. 3,421,793, 1-14-69, Cl. 298-17.
Pioch, Robert J., to Kysor Industrial Corporation, mesne. Method and apparatus for disposal of waste employing rail and off-road equipment. 3,442,404, 5-6-69, Cl. 214-38.
Pioch, Robert J., to Kysor Industrial Corporation, mesne. Dumping vehicle with detachable body mechanism. 3,462,033, 8-19-69, Cl. 214-505.
Pioneer Gen-E-Motor Corporation: *See—*
Siwek, Stanley Z., 3,423,918.
Pioneer Mortgage and Investment Company, Inc.: *See—*
McCay, Thomas E., 3,443,035.
Pioneer Packaging, Inc.: *See—*
Dgetluck, John, 3,426,989.
Dgetluck, John, 3,441,178.
West, Joseph K., 3,455,440.
Pioneer Parachute Company, Inc.: *See—*
Everett, William J., Jr., 3,428,277.
Pioneer Research, Inc.: *See—*
Goldberger, Max; and Neuhold, Hellfried, 3,427,841.
Pionke, George, to Triplex Safety Glass Company Limited. Tubular cutting tools. 3,448,734, 6-10-69, Cl. 125-20.
Piorruneck, Heinz, to Burndy Corporation. Releasable locking connector. 3,474,398, 10-21-69, Cl. 339-217.
Piotrowski, Bruno, Jr. One way directional fluid control valve and system. 3,464,321, 9-2-69, Cl. 94-442.
Piotrowski, Henry Julius, to International Telephone and Telegraph Corporation. Equalizer circuitry utilizing photoresistors. 3,483,335, 12-9-69, Cl. 179-170.
Pipe, John, to Steelcase, Inc. Cantilever loading extensible drawer rail. 3,431,042, 3-4-69, Cl. 312-339.
Pipe, John, to Steelcase, Inc. Cantilever loading drawer rail and assembly. 3,449,033, 6-10-69, Cl. 312-339.
Pipe Machinery Company, The: *See—*
Graham, Erwin W., 3,460,263.
Herbkersman, Earle C., 3,456,956.
Piper, Robert G.: *See—*
Harries, William S.; Piper, Robert G.; Daugherty, Don G.; Scribner, Neal; and Asnani, Gul C.,3,470,557.
Piper, Robert J.; Craig, James A.; and Dutton, Richard A., to United States of America, Atomic Energy Commission, mesne. Omnidirectional vacuum gauge probe. 3,429,185, 2-25-69, Cl. 73-420.
Piper, Thomas E.; and Pratt, Wilson N., to General Dynamics Corporation. Method and apparatus for powdered metal forming. 3,464,252, 9-2-69, Cl. 72-270.
Pipes, Dennis A.; and Smith, La Verne, to Essex International, Inc., mesne. Burner assembly. 3,476,491, 11-4-69, Cl. 431-46.
Pipes, George R.; and Hollinshead, Albert, to Eaton Manufacturing Company. Snowplow for vehicle. 3,448,534, 6-10-69, Cl. 37-44.
Pipponzi, Adriano. Remotely operating programmer to locate electric line failures. 3,465,268, 9-2-69, Cl. 335-26.
Piqua Machine & Mfg. Co.: *See—*
Dunn, Larry K., 3,452,171.
Piquerez, Ervin. Apparatus for extracting watch glasses. 3,445,913, 5-27-69, Cl. 29-210.
Pirelli General Cable Works Limited: *See—*
Baskwell, John Alfred, 3,444,016.
Lambert, Maurice Dudley, 3,455,347.
Tobia, Vincent, 3,451,242.
Pirelli Limited: *See—*
Damiano, Charles, 3,462,824.
Pirelli S.p.A.: *See—*
Boschi, Antonio F.; and Valentinotti, Aldo, 3,426,937.
Brovedan, Antonio, 3,469,215.
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario, 3,433,695.
Caretta, Renato; Pacciarini, Antonio; and Giletta, Dario, 3,434,897.
Cicognani, Mario, 3,479,892.
Ferrentino, Antonio, 3,473,340.
Maiocchi, Luigi, 3,452,797.
Maiocchi, Luigi, 3,474,848.
Pacciarini, Antonio; and Giletta, Dario, 3,458,612.
Vecellio, Bernardino, 3,431,161.
Vecellio, Bernardino, 3,431,246.
Piret, Jean, to Societe Anonyme des Automobiles Simca. Hydropneumatic suspensions for motor vehicles. 3,433,474, 3-18-69, Cl. 267-65.
Piret, Jean, to Societe Anonyme des Automobiles Simca. Hydraulic antishock device. 3,434,283, 3-25-69, Cl. 60-52.
Pirk, Hans: *See—*
Hackstein, Karl-Gerhard; Pirk, Hans; and Maulbecker, Dieter Karl,3,477,830.
Pirlet, Robert, to Centre National de Recherches Metallurgiques. Device for observing the contents of an enclosure. 3,475,859, 11-4-69, Cl. 49-70.
Piron, Claude; and Van Leyden, Ragnar, 1/3 to Omnium technique d'Etudes et Realisations (Oter). Cartoon animation process. 3,441,343, 4-29-69, Cl. 352-87.
Piroska, Jozsef: *See—*
Kandell, Walter; and Piroska, Jozsef,3,425,285.
Pirotsky, Motja Anselevich, to Ukrainsky Nauchno-Issledovatelsky i Konstruktorsky Institute prodovolstvennoga mashinostroenia. Multiflow dough-forming machine for fancy baked goods. 3,439,632, 4-22-69, Cl. 107-1.
Pirotte, Alfred: *See—*
Dupieux, Jacques Georges; and Pirotte, Alfred,3,439,124.
Piroutek, Miroslav J., to Corning Glass Works, mesne. Tubular package with melt-pierced seal. 3,447,676, 6-3-69, Cl. 206-65.
Piroutek, Miroslav J. Spring system for vibratory parts feeders. 3,459,292, 8-5-69, Cl. 198-220.
Pirrello, Antonio: *See—*
Joyce, Alexander H.; and Pirrello, Antonio,3,468,784.
Pirrello, Antonio; and Sproles, John D., to General Motors Corporation. Vibratory bowl. 3,429,423, 2-25-69, Cl. 198-220.
Pirsh, Edward A.; and Sage, Warnie L., to Babcock & Wilcox Company, The. Gasification method and apparatus. 3,454,383, 7-8-69, Cl. 48-101.
Pirson, Ewald Heinrich: *See—*
Nitzsche, Siegfried; Pirson, Ewald Heinrich; and Roth, Michael,3,455,710.
Pirson, Ewald; Roth, Michael; and Nitzsche, Siegfried, to Wacker-Chemie G.m.b.H. Method of removing oil from the surface of water using oleophilic, hydrophobic comminuted organic materials. 3,464,920, 9-2-69, Cl. 210-29.
Marwitz, Heinrich; Nitzsche, Siegfried; and Pirson, Ewald,3,481,899.
Pirtle, Jack O. Deep fat frying apparatus. 3,463,078, 8-26-69, Cl. 99-403.

Pisani, Giuseppe: *See—*
Tosca, Alessandro; and Pisani, Giuseppe,3,429,346.
Pisano, Anthony M.; and Barnard, John K., to Carborundum Company, The. Electric furnace having replaceable liner tube sections. 3,422,205, 1-14-69, Cl. 13-20.
Pisaroni, Giuseppe. Automatic machine for manufacturing footwear. 3,445,872, 5-27-69, Cl. 12-8.3
Pisciotta, Anthony T., Jr.: *See—*
Pisciotta, Humbert A.; and Pisciotta, Anthony T., Jr.,3,479,501.
Pisciotta, Humbert A.; and Pisciotta, Anthony T., Jr., to Jefferson Tank & Seat Mfg., Co., Inc. Porous hollow lamp shade. 3,479,501, 11-18-69, Cl. 240-108.
Piske, Wilfried, to Wild Heerbrugg AG. Pivotal support or mounting. 3,465,997, 9-9-69, Cl. 248-350.
Piskorski, John; and Myers, Everett M., to United States of America, Army. Spin stabilized projectile with self-destructive capability. 3,450,047, 6-17-69, Cl. 102-71.
Pistey, John M., to General Electric Company. Electric connector having interfitting housing members. 3,423,722, 1-21-69, Cl. 339-191.
Pistoia, Serenella: *See—*
Caprioli, Gianguido; Pistoia, Serenella; and Pavan, Emilio,3,444,261.
Caprioli, Gianguido; Pistoia, Serenella; and Pavan, Emilio,3,444,261.
Pita, Fred, to Ciba Corporation. Process for the preparation of bicyclo-(2:2:1) hept-5-ene dicarboxylic acid anhydrides. 3,453,293, 7-1-69, Cl. 260-346.6
Pitaro, Tullio L., to Esso Research and Engineering Company. Regasification of a liquefied gaseous mixture. 3,452,548, 7-1-69, Cl. 62-53.
Pitaval, Maurice, to Societe Anonyme dite: Auxitra. Grab-bucket. 3,451,150, 6-24-69, Cl. 37-186.
Pitcher, David Edward: *See—*
Young, Reginald S.; and Pitcher, David Edward,3,444,726.
Pitchford, Armin C., to Phillips Petroleum Company. Nonionic oil-in-water asphalt emulsions. 3,432,320, 3-11-69, Cl. 106-277.
Pitchford, Armin C., to Phillips Petroleum Company. Process for manufacturing asphalt and petroleum compositions. 3,483,153, 12-9-69, Cl. 260-28.5
Pitchford, Armin C., to Phillips Petroleum Company. Asphaltene oxidation. 3,484,365, 12-16-69, Cl. 208-44.
Pitchford, Irvin M.; and Messerly, Robert H., to Wean Industries, Inc. Metal charging apparatus. 3,478,899, 11-18-69, Cl. 214-8.5
Pitchford, Lorena Jean. Aircraft landing gear viewer. 3,434,773, 3-25-69, Cl. 350-9.
Pitchforth, Lehi L., Jr.; and Struthers, James A., to Dow Chemical Company, The. Process of preparing stabilized suspension of polymethylmethacrylate microspheres in polyglycol- based polyurethane elastomers and resultant compositions. 3,472,798, 10-14-69, Cl. 260-2.5
Pitchon, Esra; Feldbrugge, Alonzo H.; and Schulman, Marvin, to General Foods Corporation. Removing deleterious volatiles from coffee. 3,482,987, 12-9-69, Cl. 99-65.
Pitel, Guy, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. Process for coating tablets. 3,476,588, 11-4-69, Cl. 117-100.
Piteo, Michael J., to Phelon, R. I., Inc. Alternator rectifier and voltage regulator. 3,439,253, 4-15-69, Cl. 321-18.
Piteo, Michael J., to Phelon, R. E., Company, Inc. Breakerless ignition system with automatic spark advance using triggering coil. 3,447,521, 6-3-69, Cl. 123-148.
Piteo, Michael J., to Phelon, R. E., Company, Inc. Breakerless magneto ignition system. 3,484,677, 12-16-69, Cl. 322-91.
Piter, Rudolph: *See—*
Pietrusza, Edward W.; Pedersen, Jack R.; and Piter, Rudolph,3,438,948.
Pitkanen, Gilbert. Rockable balance plank. 3,485,493, 12-23-69, Cl. 272-1.
Pitlor, Joel R., to Ventron Instruments Corp. Cryogenic temperature control. 3,427,815, 2-18-69, Cl. 62-52.
Pitman, Herbert J.: *See—*
Green, William B., Jr.; Witte, Arnold C., Jr.; Pitman, Herbert J.; and Dowden, Clarence L., Jr.,3,475,337.
Greene, John H.; Hencke, William R.; Dowden, Clarence L., Jr.; and Pitman, Herbert J.,3,475,335.
Pitman, Herbert J.; and Dowden, Clarence L., Jr., to Texaco Inc. Method of preparing sodium soap thickened greases. 3,474,034, 10-21-69, Cl. 252-42.
Pitner, Alfred, to Nadella S.A. Journal rolling bearing having a built-in sealing element. 3,447,848, 6-3-69, Cl. 308-187.2
Pitner, Alfred, to Nadella S.A. Flexible thrust rolling bearing having needles or rollers. 3,469,896, 9-30-69, Cl. 308-231.
Pitner, Alfred, 1/2 to Nadella S.A. Greasing of a needle bearing having a closed end. 3,473,855, 10-21-69, Cl. 308-187.
Pitner, Alfred, 1/2 to Nadella S.A. Rolled and welded rolling bearing cage. 3,473,857, 10-21-69, Cl. 308-217.
Pitner, Alfred, to Nadella S.A. Universal joint. 3,478,540, 11-18-69, Cl. 64-17.
Pitner, Alfred, to Nadella S.A. Journal rolling bearing having a built-in sealing element. 3,479,100, 11-18-69, Cl. 308-187.2
Pitney, Lennord L.: *See—*
Litz, Charles J., Jr.; and Pitney, Lennord L.,3,459,099.
Pitney-Bowes, Inc.: *See—*
Beeken, Basil B., 3,432,804.
Binzoni, Emilio M.; Mersereau, Robert E.; and Wilson, Donald L., 3,473,799.
Hanson, Walter J., 3,438,707.
Hanson, Walter J., 3,457,011.
Hanson, Walter J., 3,468,693.
Hochberg, David Louis, 3,421,241.
Hochberg, David Louis, 3,454,765.
Johnson, Victor E., 3,438,172.
Labore, Walter T.; and Fuog, Jack C., 3,468,388.
Martin, Samuel W., 3,468,605.
Matkovich, George, 3,440,160.
O'Keefe, Robert F., 3,469,593.
Pearce, John A.; and Binzoni, Emilio M., 3,473,394.
Pitochelli, Anthony R.: *See—*
Hawthorne, Marion F.; and Pitochelli, Anthony R.,3,453,092.
Pitt, Howard; and Cantor, Marshall, to Physical Sciences Corporation. Transducer pickup. 3,440,459, 4-22-69, Cl. 310-15.
Pitt, Howard; and Cantor, Marshall, to Physical Sciences Corporation. Method of temperature compensating an electrical apparatus. 3,440,718, 4-29-69, Cl. 29-595.
Pitt, Richard E.: *See—*
Underwood, John T.; Palmer, Burton M.; Canfield, Sheldon A.; and Pitt, Richard E.,3,467,739.
Pitt, Richard W.: *See—*
Rodriguez, George L.; and Pitt, Richard W.,3,434,546.
Pitt, Solomon H., to Sperry Rand Corporation. Lister attachment for high speed web printers. 3,421,612, 1-14-69, Cl. 197-133.
Pitt, William A.; and Lemon, Ralph B., to United States of America, Atomic Energy Commission. Nuclear reactor containment system for metropolitan sites. 3,454,466, 7-8-69, Cl. 176-38.
Pittard, Edward W. Automatic poultry feeding device with water sprayed feed mix. 3,433,205, 3-18-69, Cl. 119-51.11
Pittenger, Evan W.; and Edwards, James W., to Monsanto Company. Ink delivery method for electrostatic printing. 3,448,687, 6-10-69, Cl. 101-426.
Pittman, Allan G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated compounds and use thereof. 3,465,050, 9-2-69, Cl. 260-633.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Bis-(fluoroalkoxyalkyl siloxanes. 3,420,793, 1-7-69, Cl. 260-46.5
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluoroalkoxyalkyl silanes. 3,422,131, 1-14-69, Cl. 260-448.2
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated alcohols, their esters, and use thereof. 3,424,785, 1-28-69, Cl. 260-486.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated allyl ethers and use thereof. 3,437,692, 4-8-69, Cl. 260-611.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Enhancing the repellency of fibrous materials with fluoroalkoxyalkyl silanes or siloxanes. 3,441,431, 4-29-69, Cl. 117-121.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated vinyl ethers and use thereof. 3,465,045, 9-2-69, Cl. 260-614.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Enhancing repelling of fibrous materials with fluoroalkyl acrylates. 3,479,214, 11-18-69, Cl. 117-161.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated vinyl ethers and use thereof. 3,480,605, 11-25-69, Cl. 260-91.1
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. 2,3-Bis(heptafluoroisopropoxy)-n-propyl acrylate. 3,480,664, 11-25-69, Cl. 260-486.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Bis-(fluoroalkoxy) alkylsilanes. 3,484,470, 12-16-69, Cl. 260-448.2
Pittman, Allen G.: *See—*
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L.,3,433,575.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L.,3,440,002.
Pittman, Clarence Edward: *See—*
Black, William Horace; and Pittman, Clarence Edward,3,462,208.
Pittman, Forrest C.: *See—*
Land, John R.; and Pittman, Forrest C.,3,459,354.
Moeller, R. E.; Love, Robert G.; and Pittman, Forrest C.,3,446,667.
Pittman, Fred E. String for marking bleeding in upper gastrointestinal tract. 3,483,859, 12-16-69, Cl. 128-2.
Pittman, Robert B., to Industrial Electronic Hardware Corp. Color kinescope socket. 3,423,720, 01/169, Cl. 339-143.
Pitts, Bobby L., to Deering Milliken Research Corporation. Ring cleaning apparatus. 3,482,385, 12-9-69, Cl. 57-57.

Pitts, Charles A., to Dow Chemical Company, The. Plug injector apparatus. 3,444,928, 5-20-69, Cl. 166-70.
Pitts, Charles A., to Dow Chemical Company, The. Multiple stage cementing. 3,451,476, 6-24-69, Cl. 166-224.
Pitts, Charles A., to Dow Chemical Company, The. Pressure balanced packer. 3,454,087, 7-8-69, Cl. 166-120.
Pitts, Frank: *See—*
Halliwell, Walter; and Pitts, Frank,3,430,610.
Pitts, James J.: *See—*
Jache, Albert W.; Kongpricha, Santad; and Pitts, James J.,3,451,775.
Pitts, Robert C., Sr.: *See—*
Massey, James M.; and Pitts, Robert C., Sr.,3,451,187.
Pitts, Robert Donald; and Zrudsky, Donald R., to Collins Radio Company. Four point probe for microminiaturized circuitry having individual biasing means for each point. 3,466,539, 9-9-69, Cl. 324-62.
Pitts, Robert W.: *See—*
Farrar, Malone H.; and Pitts, Robert W.,3,468,102.
Pitts, Thomas E., to Leesona Corporation. Textile machine. 3,429,116, 2-25-69, Cl. 57-99.
Pitts, William C.: *See—*
Knechtel, Eral D.; and Pitts, William C.,3,425,272.
Pittsburgh Activated Carbon Company: *See—*
Lloyd, Roger V., 3,424,168.
Tobias, George S., 3,474,600.
Pittsburgh Corning Corporation: *See—*
D'Eustachio, Dominic; and Johnson, Howard E., 3,441,396.
D'Eustachio, Dominic; and Johnson, Howard E., 3,459,630.
D'Eustachio, Dominic, 3,486,873.
Johnson, Howard E.; and D'Eustachio, Dominic, 3,429,955.
Pittsburgh Plate Glass Company: *See—*
Orcutt, Dee R., 3,424,642.
Tansley, Donald R., 3,440,430.
Pittsburgh Railways Company: *See—*
Evesque, Roger A., 3,433,419.
Stirling, Loren D., 3,426,948.
Pittsburgh Steel Company: *See—*
Roehl, Edward J., 3,420,754.
Pittsburgh-Des Moines Steel Company: *See—*
Hutter, Leonard J., 3,473,689.
Nelson, Ardell H., 3,434,619.
Nelson, Ardell H., 3,481,504.
Pittuck, Alan Dennis, to Eldorado Mining and Refining Limited. Process for extracting tungsten values from material containing same. 3,457,034, 7-22-69, Cl. 23-18.
Pittway Corporation: *See—*
Root, Morris J., 3,487,039.
Pityo, Albert F., to Federal Tool Engineering Company. Parts fabricating apparatus having readily replaceable units and indexable work holding ring structure. 3,479,712, 11-25-69, Cl. 29-38.
Pityo, Edward L., to Federal Tool Engineering Co. Back reflector for radiant energy glass-to-metal sealing means. 3,460,930, 8-12-69, Cl. 65-155.
Pitzalis, Octavius, Jr., to United States of America, Army. High level RF transistor distortion correction circuit. 3,443,241, 5-6-69, Cl. 330-29.
Pitzer, James G., to Motorola, Inc. Indexing mechanism. 3,450,409, 6-17-69, Cl. 274-4.
Pitzl, Gilbert, to Du Pont de Nemours, E. I., and Company. Jet initiated drawing process. 3,452,130, 6-24-69, Cl. 264-210.
Pitzl, Gilbert, to Du Pont de Nemours, E. I., and Company. Process of steam drawing and annealing polyester yarn. 3,452,132, 6-24-69, Cl. 264-290.
Pivacek, William J., to Mobilaid Incorporated. Latch for swinging footrest. 3,453,027, 7-1-69, Cl. 297-429.
Pivacek, William J., to Mobilaid Inc. Locking connection for wheel chair attachments. 3,482,873, 12-9-69, Cl. 297-429.
Pivonka, Ralph C., to Warren Petroleum Corporation. Method and apparatus for killing weeds. 3,486,497, 12-30-69, Cl. 126-271.2
Pivovaro, Lev Vladimirovich; and Karnjushin, Leonid Vasilievich. Device for non-contact measurement of speed of moving strip of electrically conductive material. 3,462,675, 8-19-69, Cl. 324-70.
Pixley, William I. Magnetic separator. 3,432,037, 3-11-69, Cl. 209-223.
Pizzagalli, Remo R., to Atlas Pipe Popper Corporation, mesne. Pipe pulling apparatus. 3,469,298, 9-30-69, Cl. 29-237.
Pizzarello, Roy A.; and Poltersdorf, Otto, to Interchemical Corporation. 1-Hydroxy-4-[p-(1',1',1',3',3',3',-hexafluoro- 2'-hydroxyisopropyl)-anilino]-anthraquinones. 3,440,000, 4-22-69, Cl. 8-25.
Pizzini, Louis C.; and Patton, John T., Jr., to Wyandotte Chemicals Corporation. Process for recovery of polyether polyols from polyurethane reaction products. 3,441,616, 4-29-69, Cl. 260-615.
Pizzini, Louis C.: *See—*
Patton, John T., Jr.; and Pizzini, Louis C.,3,454,646.
Pizzitola, Vito J., to Eastern Bearings & Manufacturing Co., Inc. Fluid bearing. 3,424,505, 1-28-69, Cl. 308-73.
Pizzuto, Joseph: *See—*
Byam, Erwin B.; and Pizzuto, Joseph,3,470,727.
Placard-Chicago Corporation: *See—*
Hoffmann, Robert, 3,461,581.
Place, Harold G.: *See—*
Baker, Ralph W.; McCarthy, John H.; Place, Harold G.; and Wikman, Andrew O.,3,468,968.
Place, Harold; and Roberts, Maurice Swift, to Lucas, Joseph, (Industries) Limited. Spray nozzles. 3,447,757, 6-3-69, Cl. 239-597.
Place, John: *See—*
Goodenough, Robert D.; Place, John; and Gunkler, Albert A.,3,436,345.
Placek, Raymond L., to Arvin Industries, Inc. Automotive exhaust system and muffler therefor. 3,447,629, 6-3-69, Cl. 181-54.
Placke, Dale L., to National Cash Register Company, The. Transfer restoring means. 3,441,211, 4-29-69, Cl. 235-133.
Placo Products Company: *See—*
Cagan, Bernard J.; and Tomeo, Carl Anthony, Jr., 3,474,566.
Placticisers Limited: *See—*
Slack, Ian David, 3,482,387.
Placzek, Peter: *See—*
Harding, John; Placzek, Peter; and Campbell, Sidney Glenroy,3,477,352.
Plagge, Vernon L., to Westinghouse Electric Corporation. Base and lamp adaptor for 'push to insert' lamp base and socket combination. 3,422,393, 1-14-69, Cl. 339-169.
Plains Chemical Development Co.: *See—*
Budnick, Edward G., 3,463,835.
Budnick, Edward G., 3,471,406.
Budnick, Edward G., 3,471,552.
Budnick, Edward George, 3,459,783.
Plakhotnikov, Grigory Ivanovich: *See—*
Derjugin, Fedor Fedorovich; Bulitko, Alexandr Denisovich; and Plakhotnikov, Grigory Ivanovich,3,423,550.
Plambeck, Ronald F.: *See—*
Mandock, Richard F.; and Plambeck, Ronald F.,3,437,884.
Plamondon, Joseph A., Jr.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,461,290.
Plamper, Gunter F., to M. T. D. Company, The. Mechanism for raising and lowering cutter unit and for concurrently controlling operation of the cutter unit. 3,461,654, 8-19-69, Cl. 56-25.4
Plampin, James Nelson: *See—*
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; Rasmussen, Chris Royce; and Plampin, James Nelson,3,436,396.
Plan-Sell Oy: *See—*
Heikinheimo, Olli, 3,444,627.
Planck, Alfred, to Fouquet-Werk Frauz & Planck. Circular knitting machine. 3,425,241, 2-4-69, Cl. 66-8.
Planck, Norman A., Jr.: *See—*
Peppler, William S.; Bliss, George N.; and Planck, Norman A., Jr.,3,478,703.
Plancon, Marcel: *See—*
Ancelle, Bernard; and Plancon, Marcel,3,451,888.
Planel, Claude, to Societe C A L O R Appareils Electro Domestiques. Hair curler and its heating apparatus. 3,483,876, 12-16-69, Cl. 132-33.
Planer, Samuel R. Electromagnetic safety lock for automotive vehicles and the like. 3,427,832, 2-18-69, Cl. 70-264.
Planert, Wolfgang: *See—*
Hahn, Werner; Planert, Wolfgang; Schulze, Heinz; and Wolf, Heinz,3,421,421.
Planitzer, Erich; Maus, Eicke; Multerer, Albert; Schober, Erwin; and Schindler, Werner, to Bolkow Gesellschaft mit beschrankter Haftung. Vehicle mounted projector for jet-propelled guided missiles with adjustable angle of elevation. 3,446,112, 5-27-69, Cl. 89-1.815
Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Conversion of clays to crystalline aluminosilicates and catalysts therefrom. 3,431,218, 3-4-69, Cl. 252-455.
Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Catalyst and conversion of organic compounds in the presence thereof. 3,436,357, 4-1-69, Cl. 252-455.
Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Method for preparing high-silica faujasite. 3,459,501, 8-5-69, Cl. 23-112.
Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Catalyst prepared by steaming alkali metal aluminosilicate in a matrix with polyvalent metal salt. 3,459,679, 8-5-69, Cl. 252-455.
Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Crystalline zeolite composite for catalytic hydrocarbon conversion. 3,459,680, 8-5-69, Cl. 252-455.
Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Catalyst prepared by steaming partially base- exchanged zeolite X in a matrix. 3,462,377, 8-19-69, Cl. 252-455.
Plank, Charles J.: *See—*
Kerr, George T.; Plank, Charles J.; and Rosinski, Edward J.,3,442,795.
Plankenhorn, William Joseph, to Eagle-Picher Industries, Inc. Electrophoretic deposition of ceramic coatings. 3,484,357, 12-16-69, Cl. 204-181.
Planner, Thomas H., to Kimberly-Clark Corporation. Tissue dispensing package. 3,456,843, 7-22-69, Cl. 221-63.

Planner, Thomas H., to Kimberly-Clark Corporation. Tissue dispensing package. 3,456,844, 7-22-69, Cl. 221-63.
Plant, Henry T.: *See—*
Jordan, Thomas J.; and Plant, Henry T.,3,432,859.
Mathes, Kenneth N.; and Plant, Henry T.,3,484,542.
Plant, Howard L.: *See—*
Bruson, Herman A.; and Plant, Howard L.,3,466,332.
Bruson, Herman A.; and Plant, Howard L.,3,466,333.
Plant, Roger Patrick. Shipping container. 3,460,718, 8-12-69, Cl. 222-143.
Plante, Robert A., to Starrett, L. S., Company, The. Diameter gauge. 3,458,939, 8-5-69, Cl. 33-147.
Planteijdt, Frans Jakob, to U.S. Philips Corporation, mesne. Tape tension control apparatus. 3,458,155, 7-29-69, Cl. 242-55.12
Planten, James M. Shell molding method. 3,447,589, 6-3-69, Cl. 164-137.
Planting, Peter J.: *See—*
Barlow, Malcolm; and Planting, Peter J.,3,431,377.
Plantz, Charles A.; and Hannan, David G., to Mine Safety Appliances Company. Detection of missile fuels in gas atmosphere. 3,455,655, 7-15-69, Cl. 23-232.
Plantz, Charles A.; Jenca, Cecelia C.; and McConnaughey, Paul W., to Mine Safety Appliances Company. Gas dosimeter using colorimetric strip also sensitive to light. 3,482,944, 12-9-69, Cl. 23-254.
Plas, James A.: *See—*
Melbar, John J.; and Plas, James A.,3,485,506.
Plaskan, Laurance F., to Amity Leather Products Co. Cigarette case. 3,454,151, 7-8-69, Cl. 206-41.
Plaskett, Arthur Frederick George: *See—*
Armelin, Edouard Roger; and Plaskett, Arthur Frederick George,3,452,943.
Armelin, Edouard Roger; and Plaskett, Arthur Frederick George,3,468,203.
Plasser, Franz Bahnbaumaschienen: *See—*
MacLeod, Norman Jamieson, 3,433,175.
Plasser, Franz; and Theurer, Josef. Mobile track correcting machine. 3,425,360, 2-4-69, Cl. 104-8.
Plasser, Franz; and Theurer, Josef. Track tamping machine. 3,429,276, 2-25-69, Cl. 104-12.
Plasser, Franz; and Theurer, Josef. Ballast tamping assembly. 3,429,277, 2-25-69, Cl. 104-12.
Plasser, Franz; and Theurer, Josef. Apparatus for indicating a superelevation of a track. 3,448,522, 6-10-69, Cl. 33-145.
Plasser, Franz; and Theurer, Josef. Track tamping method. 3,448,692, 6-10-69, Cl. 104-12.
Plasser, Franz; and Theurer, Josef. Track aligning machine. 3,463,095, 8-26-69, Cl. 104-8.
Plasser, Franz; and Theurer, Josef. Track lining machine. 3,469,533, 9-30-69, Cl. 104-7.
Plasser, Franz; and Theurer, Josef. Mobile track liner and tamper. 3,469,534, 9-30-69, Cl. 104-7.
Plasser, Franz; and Theurer, Josef. Method and apparatus for the lateral alignment of railroad track. 3,472,173, 10-14-69, Cl. 104-7.
Plasser, Franz; and Theurer, Josef. Track aligning devices. 3,472,174, 10-14-69, Cl. 104-8.
Plasser, Franz; and Theurer, Josef. Mobile track correction apparatus. 3,479,964, 11-25-69, Cl. 104-7.
Plasser, Franz; and Theurer, Josef. Ballast tamping tool for mobile tamper. 3,479,965, 11-25-69, Cl. 104-12.
Plasser, Franz; and Theurer, Josef. Method and apparatus for aligning track. 3,486,461, 12-30-69, Cl. 104-8.
Plasteco, Inc.: *See—*
Sandow, Kiyoshi; Allen, George H.; and Anderton, Thomas L., 3,461,607.
Sandow, Kiyoshi, 3,461,625.
Plaster, Bernard J.; and Stein, Richard J., to Goodyear Tire & Rubber Company, The. Polyester resin treatment with ethylene glycol. 3,453,240, 7-1-69, Cl. 260-75.
Plastic Can Corporation: *See—*
Whiteford, Carlton L., 3,466,908.
Plastic Container Corporation: *See—*
Hall, Samuel, Jr., 3,473,681.
Plastic Moldings Corporation, The: *See—*
Merke, Joseph P., Jr., 3,441,254.
Plastic Products Limited: *See—*
Wenham, Douglas Lee, 3,481,197.
Plastic Textile Accessories Limited: *See—*
Martin, Keith F.; and Mercer, Frank Brian, 3,444,588.
Plastic Wire & Cable Corporation: *See—*
Schaffhauser, William V., 3,483,313.
Plastiglide Limited: *See—*
Banks, Charles B., 3,426,419.
Plastomer Corporation: *See—*
Baughman, Walter P., 3,460,727.
Plastugil: *See—*
Fivel, Ernest P., 3,466,269.
Foras, Bernard, 3,442,065.
Jacquier, Rene, 3,464,944.
Plasynski, Joseph E.: *See—*
Hart, Donald P.; and Plasynski, Joseph E.,3,448,027.
Plate, Dr., GmbH Chemische Fabrik: *See—*
Domin, Bernhard, 3,477,477.
Sahler, Wilhelm August, 3,484,415.
Plate, Walter J.; and Arnaudin, Edwin H., Jr., to Anaconda Wire and Cable Company. Electric power cable. 3,474,189, 10-21-69, Cl. 174-115.
Plath, Charles F. Plant cutting supports. 3,456,385, 7-22-69, Cl. 47-1.2
Plati, John Thomas: *See—*
Albrecht, Harry Allen; and Plati, John Thomas,3,422,095.
Albrecht, Harry Allen; and Plati, John Thomas,3,422,115.
Platino, Rocco J.; and Lombardo, John L. Ladder step. 3,454,132, 7-8-69, Cl. 182-121.
Platnick, David, to Carrier Corporation. Direct current motor employing a static switching arrangement. 3,466,519, 9-9-69, Cl. 318-138.
Platt Brothers Machine Corporation: *See—*
Gerlach, Leif; and Platt, Eugene C., 3,465,697.
Platt, Clark I.: *See—*
Spiegel, Raymond W.; Robandt, William F.; and Platt, Clark I.,3,429,444.
Platt Corporation: *See—*
Platt, James Beach, III, 3,485,202.
Platt, Eugene C.: *See—*
Gerlach, Leif; and Platt, Eugene C.,3,465,697.
Platt, James Beach, III, to Platt Corporation. Pyramidal highway warning marker. 3,485,202, 12-23-69, Cl. 116-63.
Platt, Leslie. Apparatus for loading and unloading luggage. 3,473,762, 10-21-69, Cl. 244-137.
Platt, Stephen A. Continuous filmstrip apparatus. 3,446,551, 5-27-69, Cl. 353-21.
Platt, Stephen A. Stereoscopic continuous filmstrip apparatus. 3,473,870, 10-21-69, Cl. 353-7.
Platt, Walter A.: *See—*
Bulloch, James E.; and Platt, Walter A.,3,424,402.
Platt, William G.; and Jacks, Roy T. Chuck. 3,468,550, 9-23-69, Cl. 279-2.
Platt, William G.; and Tucker, Henry G., to Remington Arms Company, Inc. Automatic data processing unit. 3,436,736, 4-1-69, Cl. 340-172.5
Platte, Howard J.: *See—*
Shepherd, William T.; Platte, Howard J.; and Gonzalez, Federico P.,3,458,444.
Plattner, Andrew J. Storage battery with thermostatically controlled electric heaters. 3,440,109, 4-22-69, Cl. 136-161.
Platus, David L.: *See—*
Gularte, Ronald C.; and Platus, David L.,3,435,919.
Platus, David L.; and Gularte, Ronald C., to Mechanics Research, Inc. Energy absorbing arrangement. 3,426,869, 2-11-69, Cl. 188-1.
Platz, Elwood T.: *See—*
Letosky, Donald F.; and Platz, Elwood T.,3,466,577.
Platz, Gerald M., to Air Reduction Company, Incorporated, mesne. Gaseous ozone, oxygen mixture stabilized with monochlorotrifluoromethane. 3,437,535, 4-8-69, Cl. 149-109.
Platz, James H. Frequency testing apparatus and method providing a single frequency comparison signal. 3,484,688, 12-16-69, Cl. 324-79.
Platz, Rold; Taglieber, Kurt; and Weinfurter, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Joint separation of acetylene and ethylene from cracked gases. 3,471,584, 10-7-69, Cl. 260-679.
Platz, Rolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-alkyl-2-methyl-3-hydroxypropionic acids. 3,483,249, 12-9-69, Cl. 260-530.
Platz, Rolf; and Baur, Karl Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Removing palladium compounds from aqueous glyoxal solutions. 3,475,495, 10-28-69, Cl. 260-604.
Platz, Rolf; Nohe, Heinz; and Schuler, Dominik, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Recovering palladium compounds by extraction with amines. 3,437,431, 4-8-69, Cl. 23-50.
Platz, Warren W.: *See—*
Schlotzhauer, Allan T.; Newman, Douglas A.; and Platz, Warren W.,3,467,539.
Platzer, George E., Jr.; and Van Deusen, Bruce D., to Chrysler Corporation. True root-mean-square computing circuit. 3,423,578, 1-21-69, Cl. 235-193.5
Platzer, George E.Jr.: *See—*
Gau, Leonard P.; and Platzer, George E.Jr.,3,439,250.
Platzer, Norbert, to Monsanto Company. Novel chlorinated graft copolymer of polyvinyl chloride onto an ethylene polymer backbone. 3,487,129, 12-30-69, Cl. 260-878.
Platzke, Ronald N.; and Prater, John D., to Kennecott Copper Corporation. Process for the recovery of molybdenum values as high purity ammonium paramolybdate from impure molybdenum-bearing solutions, with optional recovery of rhenium values if present. 3,458,277, 7-29-69, Cl. 23-22.
Player, Alfred: *See—*
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W.,3,434,270.
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W.,3,434,271.

Playskool Inc.: *See—*
Paulson, Nils I., 3,481,068.
Pleass, Charles M. Artificial snow. 3,443,492, 5-13-69, Cl. 94-3.
Plechac, Bohuslav; Velisek, Vaclav; Machovsky, Vaclav; Kadlcik, Bozetech; and Molcan, Stefan, to Strojosvit narodni podnik. Leather rolling machine. 3,429,150, 2-25-69, Cl. 69-46.
Pledger, James Thompson, Jr., to Du Pont de Nemours, E. I., and Company. Blends comprising ethylene/methacrylic acid copolymer, polyethylene, and ethylene/vinyl acetate copolymer. 3,445,546, 5-20-69, Cl. 260-897.
Plefka, Henry J.; and Metzgar, Harrison B., III, to Budd Company, The. Mechanized die skid. 3,486,642, 12-30-69, Cl. 214-16.
Plegat, Alain Edouard, to Societe Anonyme des Usines Chausson. Method of manufacturing a heat exchanger. 3,422,777, 1-21-69, Cl. 113-118.
Plehal, Edward J.; Frick, Gene; and Mintz, Martin, to Bissett-Berman Corporation, The. Electrolytic cells with at least three electrodes. 3,423,642, 1-21-69, Cl. 317-231.
Plemmons, Dean C., to American Home Products Corporation. Process for the preparation of alkyl 3,5- disubstituted-isoxazole-4-carboxylates. 3,466,296, 9-9-69, Cl. 260-307.
Plenderleath, John S. Method of fusing a thermoplastic film in the gap of the weft between alternate warp threads of a woven fibrous band. 3,449,185, 6-10-69, Cl. 156-148.
Plenty & Son Limited: *See—*
Vanderstegen-Drake, Stamford R. F., 3,478,692.
Pleshko, Peter, to International Business Machines Corporation. Integrated nor logic circuit. 3,479,523, 11-18-69, Cl. 307-205.
Pleska, Paul Lyndhurst, to General Motors Corporation. Wheel drive. 3,426,620, 2-11-69, Cl. 74-705.
Pless, Ernst, to Akustische u Kino-Gerate Gesellschaft m.b.H. Tape recorder carrying and coupling belt assembly. 3,433,905, 3-18-69, Cl. 179-157.
Pless, Ernst. Device for indicating a predetermined portion of a tape coil and tape-winding apparatus incorporating such device. 3,476,894, 11-4-69, Cl. 242-200.
Pless, Ernst; and Gorike, Rudolf, to Akustische u Kino-Gerate Gesellschaft m.b.H. Microphone assembly with self-contained power supply. 3,436,482, 4-1-69, Cl. 179-1.
Plessey Airborne Corporation: *See—*
Traina, Richard O., 3,441,810.
Traina, Richard O., 3,445,683.
Plessey Company Limited, The: *See—*
Acton, John R.; and Turton, Peter, 3,461,316.
Baines, Frederick; and Tunnell, Frank Geoffrey, 3,450,057.
Baines, Frederick; and Tunnell, Frank Geoffrey, 3,463,260.
Beavitt, Alan R., 3,440,874.
Brion, Stanley A., 3,479,539.
Deeley, Gerald G.; and Herbert, John M., 3,455,729.
Godfrey, Alan, 3,431,499.
Gwillim, David Thomas; and Freedman, Arye Leib, 3,487,389.
Haddon, Alistair Peter William; Gwillim, David T.; and Wood,Thomas Edward, 3,420,425.
Horner, Terence P., 3,443,196.
Jones, Richard F.; and Matthison, Arnold V., 3,463,051.
Lewis, Eric, 3,463,907.
Moss, Norman, 3,443,792.
Newborough, Harry, 3,463,089.
Oldfield, Thomas Alfred, 3,481,145.
Rawlings, Dennis G., 3,453,828.
Reeves, John R.; and Sanders, David Charles, 3,441,745.
Richards, Clement John, 3,486,053.
Stapleton, David C., 3,470,544.
Turner, Horace G.; and Wood, Robert S., 3,450,052.
Turner, Stanley Berry; and Challis, Kenneth Ernest, 3,430,848.
Wood, Robert S., 3,469,531.
Plessey Fabricken N. V.: *See—*
Borel, George, 3,463,396.
Plessey-UK Limited: *See—*
Jones, Alan, 3,445,829.
Pletcher, Donald L.; and Stalter, John D., to Nibco, Inc. Valve. 3,420,499, 1-7-69, Cl. 251-266.
Pletcher, Erwin C., to Unitek Corporation. Orthodontic appliance. 3,444,621, 5-20-69, Cl. 32-14.
Pleuthner, Richard L.: *See—*
Carpenter, James E.; and Pleuthner, Richard L.,3,434,663.
Plevyak, Thomas J., to Bell Telephone Laboratories, Incorporated. Vapor-phase cooling of electronic components. 3,476,175, 11-4-69, Cl. 165-105.
Plexowood, Inc.: *See—*
Inauzzi, Joseph; and Habgood, Robert P., Jr., 3,473,204.
Plice, Gerald W.: *See—*
Muenow, Richard A.; and Plice, Gerald W.,3,431,462.
Plice, William A., to Honeywell Inc. Impedance sensing circuit having amplifier means for maintaining a pair of points at the same potential. 3,449,666, 6-10-69, Cl. 324-57.
Plice, William A., to Honeywell Inc. Digital-to-analog converter apparatus. 3,475,749, 10-28-69, Cl. 340-347.
Plishner, Paul J. Electric motor-driven automobile. 3,477,537, 11-11-69, Cl. 180-65.
Plitt, Karl F.; and Clatterbuck, Carroll H., to United States of America, National Aeronautics and Space Administration. Spacecraft battery seals. 3,427,205, 2-11-69, Cl. 136-133.
PLIUA, Pharmaceutical and Chemical Works: *See—*
Djokic, Slobodan; and Tamburasov, Zrinka, 3,478,014.
Ploch, Siegfried; Scholtis, Walter; and Zschunke, Heinz, to Forschungsinstitut fur Textiltechnologie. Pile fabric. 3,442,101, 5-6-69, Cl. 66-194.
Plock, Layne F.: *See—*
Bertea, Octavian; Bomberger, Howard B., Jr.; and Plock, Layne F.,3,469,975.
Ploeger, Walter, Jr., to Filmon Process Corporation. Endless printing ribbon. 3,460,666, 8-12-69, Cl. 197-172.
Ploeger, Walter, Jr., to Filmon Process Corporation. Impression ribbon and method of making same. 3,461,998, 8-19-69, Cl. 197-172.
Plofsky, Erwin: *See—*
Cellitti, Raymond A.; Plofsky, Erwin; and Solecki, Edward A.,3,481,186.
Plomp, Hermanus, to Algemene Kunstzijde Unie, N.V. Spinneret. 3,439,381, 4-22-69, Cl. 18-8.
Plonsker, Larry, to Ethyl Corporation. Gasoline containing 2,6-di-tert-butyl-4-halophenol. 3,480,413, 11-25-69, Cl. 44-69.
Plonsker, Larry; and Wright, Norman R., to Ethyl Corporation. Method of defoliating plants with organomercurials. 3,433,619, 3-18-69, Cl. 71-70.
Plonsker, Larry; and Wright, Norman R., to Ethyl Corporation. Method of defoliating plants with organomercurials. 3,433,620, 3-18-69, Cl. 71-70.
Plonsker, Larry; and Wright, Norman R., to Ethyl Corporation. Method of defoliating plants with organomercurials. 3,433,622, 3-18-69, Cl. 71-70.
Plorin, Siegfried: *See—*
Schwarz, Horst; and Plorin, Siegfried,3,427,510.
Plostnieks, Janis, to McNeil Laboratories, Inc. Oxindole derivatives. 3,428,649, 2-18-69, Cl. 260-325.
Plostnieks, Janis, to McNeil Laboratories, Inc.11,11a-Dihydro-2-(lower alkyl)-6-hydroxy-6H-benzo [5,6]cyclohept-[1,2,3-cd]indolin-1-ones. 3,432,523, 3-11-69, Cl. 260-326.5
Plostnieks, Janis, to McNeil Laboratories, Inc. Indolizinone derivatives. 3,435,033, 3-25-69, Cl. 260-244.
Plotkin, Manuel; and McQueen, Malcolm, to Whittaker Corporation. Liquid transfer valve having float control and acceleration responsive pilot valve. 3,428,063, 2-18-69, Cl. 137-45.
Plotkowiak, Joseph, to Societe d'Exploitation des Materiels Hispano-Suiza. Tempering furnaces and method. 3,470,624, 10-7-69, Cl. 34-20.
Plotz, Georg; Mayer, Andreas; and Lewandowski, Adolf, to Linde Aktiengesellschaft. Thawing technique for a single air separation plant. 3,421,333, 1-14-69, Cl. 62-13.
Plouffe, Robert L.; and Schreiner, Stanley M., to International Telephone and Telegraph Corporation. Time division multiplex system for low frequency transmission media. 3,467,782, 9-16-69, Cl. 179-15.
Plough, Charles T.: *See—*
Kelley, James W.; and Plough, Charles T.,3,463,974.
Plowden, Irvin V.: *See—*
Mc Canless, Stuart D.; and Plowden, Irvin V.,3,442,204.
Plowman, Paul M.: *See—*
Struben, Francis L.; and Plowman, Paul M.,3,426,591.
Plueddemann, Edwin P.: *See—*
Barry, Arthur J.; and Plueddemann, Edwin P.,3,481,815.
Kookootsedes, Gust J.; and Plueddemann, Edwin P.,3,445,420.
Plueddemann, Edwin P., to Dow Corning Corporation. Alkoxyalkarylalkylsilanes and condensates thereof. 3,427,339, 2-11-69, Cl. 260-448.2
Plueddemann, Edwin P., to Dow Corning Corporation. Alkoxyalkarylsilanes and condensates thereof. 3,427,340, 2-11-69, Cl. 260-448.2
Plueddemann, Edwin P., to Dow Corning Corporation. Room temperature curable acrylate rubbers. 3,453,230, 7-1-69, Cl. 260-41.
Plueddemann, Edwin P., to Dow Corning Corporation. Organosilicon epoxides. 3,455,877, 7-15-69, Cl. 260-46.5
Plueddemann, Edwin P., to Dow Corning Corporation. Bonding of thermoplastic polymer resins to silane-primed siliceous or metallic materials. 3,461,027, 8-12-69, Cl. 161-193.
Plueddemann, Edwin P.; and Vincent, Harold L., to Dow Corning Corporation. Extracoordinate silicone complexes as curing agents for epoxy resins. 3,461,095, 8-12-69, Cl. 260-47.
Plugge, Dale L.: *See—*
Behlen, Herbert P.; and Plugge, Dale L.,3,429,053.
Plugge, Leonard Frank. Motor accumulator circuit. 3,477,026, 11-4-69, Cl. 320-15.
Pluhar, Franz: *See—*
Ebenbichler, Hubert; Pluhar, Franz; and Scharler, Johann,3,453,930.
Plum, Hans; Feldges, Werner; Enger, Helmut; and Grefen, Hans, to Niederrheinische Maschinenfabrik Becker & Van Hullen. Presses for the production of chipboard. 3,431,595, 3-11-69, Cl. 18-4.

Plumat, Emile, to Glaverbel, S.A. Apparatus for supporting and conveying glass sheets on a gas support bed. 3,425,818, 2-4-69, Cl. 65-182.
Plumat, Emile, to Glaverbel S.A. Glass melting furnace with vacuum feed means. 3,429,684, 2-25-69, Cl. 65-335.
Plumat, Emile; and Jaupain, Maurice, to Glaverbel S.A. Refractory composition and process for producing same. 3,425,851, 2-4-69, Cl. 106-55.
Plumb, John Beckett: *See—*
Jack, James; Stuart, Ronald Sangster; and Plumb, John Beckett,3,478,075.
Plumb, John Beckett; and Stuart, Ronald Sangster, to Imperial Chemical Industries Limited. Polybutadiene organosilicon polymers having poly- oxyalkylene group attached to the silicon atoms. 3,470,226, 9-30-69, Cl. 260-448.8
Plume, Alan Walter: *See—*
Faulkner, Kenneth Francis; and Plume, Alan Walter,3,431,345.
Plume, Robert W., to General Motors Corporation. Headlight holder and adjuster. 3,467,822, 9-16-69, Cl. 240-41.6
Plummer, Charles E. Tree shaking device. 3,457,713, 7-29-69, Cl. 56-328.
Plummer, Charles H.: *See—*
Bassett, Alton H.; and Plummer, Charles H.,3,485,699.
Brewster, Charles A.; and Plummer, Charles H.,3,475,791.
Plummer, Harland C., to Woodward Governor Company. Speed governor with rate limiter. 3,426,777, 2-11-69, Cl. 137-18.
Plummer, Henry J., to Marrick Manufacturing Co., Limited. Blow molding apparatus. 3,449,792, 6-17-69, Cl. 18-5.
Plummer, Mark A.; and Peterson, Alan H., to Marathon Oil Company. Processes for the improvement of initial color and long-term color stability of aromatic concentrates. 3,487,012, 12-30-69, Cl. 208-264.
Plummer, Walter A.: *See—*
Eichberg, Frank D., 3,423,515.
Shorey, Robert C., 3,467,768.
Smith, Ethan A., 3,430,733.
Plummer, Walter A. Pressurizable cable splice assembly. 3,427,392, 2-11-69, Cl. 174-21.
Plummer, Walter A. High dielectric protective jacket for temporary assembly about high tension conductors. 3,459,870, 8-5-69, Cl. 174-5.
Plummer, Walter A. Electrically shielded heat-reactive jacket for conductors. 3,467,761, 9-16-69, Cl. 174-36.
Plummer, Walter A. Power-driven seam closing device. 3,478,404, 11-18-69, Cl. 29-200.
Plummer, William B.; Van den Honert, Taco H.; and Wilson, Melvin G., to International Business Machines Corporation. Acoustic document sensor. 3,479,026, 11-18-69, Cl. 271-58.
Plumpe, William H., Jr., to Brunswick Corporation. Fluid measuring gauge. 3,438,244, 4-15-69, Cl. 73-37.9
Plumridge, Robert F.: *See—*
Downing, Edward T.; and Plumridge, Robert F.,3,435,284.
Plunguian, Mark, to Hercules Incorporated. Method for shaping a material impregnated with a nitrocellulose-plasticizer hydrosol and the resulting shaped article. 3,451,883, 6-24-69, Cl. 161-46.
Plunk, Rowe A. Well device setting tool. 3,454,294, 7-8-69, Cl. 287-119.
Plunkett, Bradley J.: *See—*
Brand, John R.; and Plunkett, Bradley J.,3,422,454.
Brand, John R.; and Plunkett, Bradley J.,3,446,904.
Brand, John R.; and Plunkett, Bradley J.,3,465,087.
Dodds, Ralph L.; and Plunkett, Bradley J.,3,439,569.
Plunkett, Donald J.: *See—*
Alexandrovich, George; and Plunkett, Donald J.,3,436,674.
Plust, Heinz-Gunther, to Aktiengesellschaft Brown, Boveri & Cie. Gas diffusion electrode for electrochemical fuel cells and method of making same. 3,423,248, 1-21-69, Cl. 136-120.
Pluznik, Wolf; and Frescura, Gino, to Schweizerische Unfall-Versseccherungsanstalt. Eyeglass having expansible rims. 3,473,869, 10-21-69, Cl. 351-95.
Plykon Corporation: *See—*
Conrad, Peter S.; and Conrad, Arthur S., 3,450,592.
Plyle-National Company, The: *See—*
Edens, Carrol D.; Norungolo, Patrick C.; and Barrowclough, Howard J., 3,460,660.
Plymale, Charles E., to Owens-Illinois Glass Company. System for dispensing material accurately through multiple orifices. 3,477,097, 11-11-69, Cl. 18-12.
Plymale, Charles E., to Owens-Illinois, Inc. Method and apparatus for forming plastic tubular netting. 3,477,892, 11-11-69, Cl. 156-167.
Plymale, Julian K.: *See—*
Reuter, Gottfried; and Plymale, Julian K.,3,465,899.
PM & E Electronics, Inc.: *See—*
Scanlon, Thomas Albert, 3,450,839.
P M & E Electronics Inc.: *See—*
Scanlon, Thomas Albert, 3,444,954.
Scanlon, Thomas Albert, 3,463,886.
Walters, Warren Roger, 3,445,597.
Pneumafil Corporation: *See—*
Landers, Otis L., 3,444,593.
Pneumatic Scale Corporation: *See—*
Mc Carthy, Edward J., 3,460,464.
Mc Carthy, Edward J., 3,473,293.
Scully, John W., 3,424,068.
Scully, John W., 3,429,570.
Scully, John W., 3,476,022.
Sterling, Walter S., 3,485,338.
Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes: *See—*
Pouilloux, Jacques; and Manry, Andre, 3,441,074.
Pouilloux, Jacques, 3,463,040.
Wanneroy, Roland Charles, 3,457,729.
Pneumo Dynamics Corporation: *See—*
Arendarski, Marion, 3,426,651.
Arendarski, Marion, 3,461,991.
Garrison, Judd F., 3,473,369.
Geyer, Howard M., 3,433,089.
Hartwig, Robert Louis, 3,451,510.
Heintz, Richard P.; and Vanderlaan, Robert D., 3,426,796.
Medley, Edward H., 3,448,960.
Scheflow, Oliver W., 3,481,357.
Vanderlaan, Robert Dale, 3,426,997.
Poage, Leland B., to Robbins, James S., and Associates, Inc. Drilling machine. 3,454,114, 7-8-69, Cl. 173-152.
Poarch, Charles T.: *See—*
Hodgson, Richard W.; Kennedy, Clifford F.; and Poarch, Charles T.,3,484,679.
Pobedonostsev, Alexandr Sergeevich: *See—*
Golant, Mikhail Borisovich; Negirev, Alexandr Andreevich; Tager, Alexandr Semnovich; Pobedonostsev, Alexandr Sergeevich; Zjulina, Elena Aristarkhovna; and Samorodova, Galina Alexandrovna,3,436,690.
Pobiner, Harvey, to American Can Company. Process for recovering rare earth metal values. 3,468,622, 9-23-69, Cl. 23-22.
Pobst, David F., Jr., to Columbian Carbon Company. Method and means for pumping powdered solids. 3,434,808, 3-25-69, Cl. 23-314.
Poccard, Jacques, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Safety device for an unlosable shaft. 3,478,802, 11-18-69, Cl. 151-41.75
Pochert, Rudolf: *See—*
Haase, Lothar; and Pochert, Rudolf,3,459,376.
Pociluyko, Alexander: *See—*
McConnell, Albert L.; Pociluyko, Alexander; and Adams, Whitney R.,3,461,872.
Podebradsky, Everett V.: *See—*
Olson, Floyd C.; and Podebradsky, Everett V.,3,453,120.
Podell, Allen F., to Adams-Russell Co., Inc. FM multiplex adapter. 3,431,361, 3-4-69, Cl. 179-15.
Podell, Allen F., to Adams-Russell Co., Inc. Transmission line quadrature coupler. 3,484,724, 12-16-69, Cl. 333-10.
Podesta', Armando; and Vignati, Carlo, to Cebal GP. Metallic cap provided with a separate bottom disc. 3,446,381, 5-27-69, Cl. 215-40.
Podesta, Armando; and Vignati, Carlo, to Pechiney-Compignie de Produits Chimiques et Electrometallurgiques. Device for applying sealing compound to closures. 3,455,275, 7-15-69, Cl. 118-317.
Podesta, Armando; and Vignati, Carlo. Tightly sealed can with removable lid and method. 3,463,349, 8-26-69, Cl. 220-60.
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre, l'Aluminium Francais. Apparatus for the manufacture of caps from sheet material. 3,434,325, 3-25-69, Cl. 72-354.
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre, l'Aluminium Francais. Method and apparatus for lining a closure. 3,486,959, 12-30-69, Cl. 156-262.
Podgornaya, Liya Mikhailovna: *See—*
Krasovitsky, Boris Mordukhovich; Poduzhailo, Vladimir Fedorovich; Podgornaya, Liya Mikhailovna; and Globus, Rafail Lvovich,3,444,094.
Podgorski, Matthew C.: *See—*
Farrell, Guy M.; Gaber, Richard B.; Podgorski, Matthew C.; and Whitlock, Morris N.,3,471,663.
Podiak, Joseph T. Selectively mobile apparatus. 3,477,737, 11-11-69, Cl. 280-43.
Podolsky, Romain. Screw fasteners. 3,463,209, 8-26-69, Cl. 145-50.
Podraczky, Emeric I., to Communications Satellite Corporation. Antenna for space vehicle. 3,460,148, 8-5-69, Cl. 343-705.
Poduzhailo, Vladimir Fedorovich: *See—*
Krasovitsky, Boris Mordukhovich; Poduzhailo, Vladimir Fedorovich; Podgornaya, Liya Mikhailovna; and Globus, Rafail Lvovich,3,444,094.
Podwalny, Sergey Gary, to Rubbermaid Incorporated. Free swing waste receptacle cover. 3,482,730, 12-9-69, Cl. 220-31.
Podwys, Stanley, to General Motors Corporation. Convertible top. 3,460,865, 8-12-69, Cl. 296-117.
Poe, Russell W., to Monsanto Company. Detergent process. 3,472,784, 10-14-69, Cl. 252-138.

Poedll, Howard I., to United Shoe Machinery Corporation. Self-locking threaded fastener. 3,474,845, 10-28-69, Cl. 151-7.
Poehler, Guenter: *See—*
Friedrichsen, Wilhelm; Poehler, Guenter; and Goehre, Otto,3,478,063.
Poehlman, Edmund F., Jr., to Fuse Indicator Corporation. Fuseholder for electrical circuits. 3,432,789, 3-11-69, Cl. 337-242.
Poehlman, Edmund F., Jr., to Fuse Indicator Corporation. Blown fuse indicator. 3,457,535, 7-22-69, Cl. 337-242.
Poehlman, Robert F., to Modine Manufacturing Company. Vehicle radiator core assembly. 3,446,276, 5-27-69, Cl. 165-119.
Poel, Lawrence R.: *See—*
Neal, Charles Bailey; and Poel, Lawrence R.,3,463,961.
Poen, Ong Sing, to Philips Electronics and Pharmaceutical Industries Corporation. Charge particle barrier consisting of magnetic means for removing electrons from an X-ray beam. 3,471,694, 10-7-69, Cl. 250-49.5
Poerink, Jannes Jonge. Bedstead with spring steel bottom. 3,441,961, 5-6-69, Cl. 5-246.
Poettmann, Fred H., to Marathon Oil Company. Apparatus for lubricating fluid flow in pipelines. 3,447,507, 6-3-69, Cl. 118-72.
Poettmann, Fred H., to Marathon Oil Company. Low API gravity crude oil recovery process by in situ combustion. 3,470,955, 10-7-69, Cl. 166-260.
Poff, Russell G. Trigger for a spring-type mousetrap. 3,430,380, 3-4-69, Cl. 43-81.
Pogonowski, Ivo C., to Texaco Inc. Replaceable pile sleeve insert. 3,457,728, 7-29-69, Cl. 61-46.5
Pogonowski, Ivo C., to Texaco Inc. Frangible port closure. 3,474,630, 10-28-69, Cl. 61-46.5
Pogrebitsky, Ruvim Davydovich: *See—*
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.
Pohl, Bernard F.: *See—*
Hicks, Harold E.; and Pohl, Bernard F.,3,429,782.
Pohl, Franz: *See—*
Winkler, Fritz; Pohl, Franz; Stark, Hermann; Kesseler, Helmut; and Grundmann, Werner,3,424,646.
Pohl, Fritz Georg: *See—*
Keller, Arnold; and Pohl, Fritz Georg,3,472,081.
Pohl, Herbert Ackland, to Sci-Tech Corporation. Methods of measuring strain. 3,469,441, 9-30-69, Cl. 73-88.5
Pohl, Herbert, to Aktiengesellschaft Brown, Boveri & Cie. Closed system for cooling the starting winding of a synchronous or non-synchronous machine. 3,458,738, 7-29-69, Cl. 310-54.
Pohl, James E., to United States of America, Navy. Multiple speed servomechanism drive system for positioning an antenna in direct response to digital signals. 3,437,894, 4-8-69, Cl. 318-18.
Pohl, James E., to United States of America, Navy. Digital servomotor position control including means to position in shortest direction. 3,448,360, 6-3-69, Cl. 318-28.
Pohl, Karl-Heinz; and Spencer, Arthur T., to Bell Telephone Laboratories, Incorporated. Metal-plastic laminate and method for the preparation thereof. 3,455,775, 7-15-69, Cl. 161-216.
Pohl, Kurt: *See—*
Bende, Friedrich; Vollinger, Heinz; and Pohl, Kurt,3,476,804.
Vollinger, Heinz; Pohl, Kurt; and Bende, Friedrich,3,476,805.
Pohl, Louis K.: *See—*
Barrett, Edward L., 3,464,106.
Pohl, Raymond A., to Allied Chemical Corporation. Gel-rise retardation in polyurethane foams. 3,437,608, 4-8-69, Cl. 260-2.5
Pohl, Russell A.; and Pritchard, Clyde L., to Raven Industries, Inc. Pilot aerial survival system. 3,458,161, 7-29-69, Cl. 244-32.
Pohl, Russell A.: *See—*
Craig, Jimmie M.; Pohl, Russell A.; and Yost, Paul E.,3,469,805.
Pritchard, Clyde L.; and Pohl, Russell A.,3,473,763.
Pohl, Walter J., to General Electric Company. Electron beam detection and steering system. 3,483,350, 12-9-69, Cl. 219-121.
Pohl, William G.: *See—*
Barrett, Edward L., 3,464,106.
Pohland, Albert, to Lilly, Eli, and Company. Herbicidal method employing N-allylidiphenylacetamide mide. 3,449,114, 6-10-69, Cl. 71-118.
Pohland, Alois, to Freudenberg, Carl. Process of and apparatus for drawing batting. 3,474,502, 10-28-69, Cl. 19-161.
Pohlau, Claus: *See—*
Lutz, Edgar; Haserer, Johann; and Pohlau, Claus,3,462,829.
Pohle, William A., to Crane Engineering Company, Incorported. Locked assembly. 3,466,073, 9-9-69, Cl. 287-100.
Pohlemann, Heinz: *See—*
Spoor, Herbert; and Pohlemann, Heinz,3,458,420.
Spoor, Herbert; Florus, Gerhard; Pohlemann, Heinz; and Schauder, Friedrich,3,455,806.
Spoor, Herbert; Pohlemann, Heinz; Florus, Gerhard; and Schauder, Friedrich,3,454,482.
Pohlemann, Heinz; Spoor, Herbert; and Becker, Ernst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrodeposition of a copolymer containing basic nitrogen atoms. 3,446,723, 5-27-69, Cl. 204-181.
Pohlenz, Jack B., to Universal Oil Products Company. Gasoline producing process. 3,479,279, 11-18-69, Cl. 208-56.
Pohler, Alfred; and Strohmeier, Gerolf, to Schwarzkopf Development Corporation. Electric multiphase tubular heating structure having hollow refractory conductors and all terminals at one structure end. 3,420,986, 1-7-69, Cl. 219-553.
Pohler, Friedmar: *See—*
Gassler, Gerhard; and Pohler, Friedmar,3,454,754.
Pohler, Heinz: *See—*
Schluter, Wilhelm; and Pohler, Heinz,3,482,892.
Schmude, Wolfgang; and Pohler, Heinz,3,478,402.
Pohlke, Rolf; Sommer, Siegmund; and Schorscher, Ernst, to Merck, E., A.G.1,3,4,6,7,11b-Hexahydro-1,4-oxazino [3,4-α]-isoquinolines. 3,452,010, 6-24-69, Cl. 260-244.
Pohlman, John H. Downdraft carburetor. 3,485,483, 12-23-69, Cl. 261-39.
Pohlman, Marvin A.; and Moore, Joseph B., to General Electric Company. Nickel base alloy. 3,457,066, 7-22-69, Cl. 75-171.
Pohlman, Reimar; and Sievers, Roland, to Lehfeldt, Dr., & Co. G.m.b.H. Ultrasonic welding apparatus. 3,426,951, 2-11-69, Cl. 228-1.
Pohm, Arthur V.: *See—*
Davis, William W.; and Pohm, Arthur V.,3,433,975.
Pohndorf, Henry L.: *See—*
Bird, Forrest M.; and Pohndorf, Henry L.,3,454,000.
Bird, Forrest M.; and Pohndorf, Henry L.,3,460,532.
Bird, Forrest M.; and Pohndorf, Henry L.,3,467,078.
Bird, Forrest M.; and Pohndorf, Henry L.,3,467,092.
Bird, Forrest M.; and Pohndorf, Henry L.,3,485,243.
Pohorilla, Michael J.: *See—*
Lawrence, Franklin I. L.; and Pohorilla, Michael J.,3,455,823.
Lawrence, Franklin I. L.; and Pohorilla, Michael J.,3,455,825.
Lawrence, Franklin I. L.; and Pohorilla, Michael J.,3,455,828.
Lawrence, Franklin I. L.; and Pohorilla, Michael J.,3,455,829.
Lawrence, Franklin I. L.; and Pohorilla, Michael J.,3,455,830.
Lawrence, Franklin I. L.; and Pohorilla, Michael J.,3,455,833.
Lawrence, Franlin I. L.; and Pohorilla, Michael J.,3,455,824.
Poignant, Pierre; and Crisinel, Pierre, to Pechiney - Progil. 2,4-Dichlorophenyl 4'-nitrophenyl ether and N-(3,4- dichlorophenyl)-N'-methyl-N'-n-butyl urea, synergistic herbicidal composition. 3,484,230, 12-16-69, Cl. 71-120.
Poincet, Francois Xavier; Pourcher, Henri Marie Rene; and Jourdain, Philippe Andre, to Societe Anonyme: Societe Technique d'Entreprises Chemiques. Process for treating gaseous mixtures. 3,486,327, 12-30-69, Cl. 60-39.02
Pointer, Paul H.; and Price, Connor E., to FMC Corporation. Multidisc shaft seal. 3,460,842, 8-12-69, Cl. 277-2.
Poirier, Armand R.; and Newkirk, Terry F., to Sanders Associates, Inc. Thin film piezoelectric oscillator. 3,422,371, 1-14-69, Cl. 331-107.
Poirier, Philippe: *See—*
Bonnin, Andre; and Poirier, Philippe,3,450,640.
Bonnin, Andre; and Poirier, Philippe,3,453,214.
Poitras, Donald J., to RCA Corporation. Amplifier control system. 3,469,203, 9-23-69, Cl. 330-84.
Poitras, Edward J. Compartmented package. 3,429,429, 2-25-69, Cl. 206-47.
Poitras, Edward J. Fluid storing, mixing and dispensing apparatus. 3,437,242, 4-8-69, Cl. 222-135.
Poitras, Edward J. Fire extinguisher apparatus. 3,441,087, 4-29-69, Cl. 169-31.
Poitras, Edward J. Fire extinguishing sprinkler system. 3,473,612, 10-21-69, Cl. 169-11.
Poitras, Ernest L.: *See—*
Kalwaites, Frank; and Poitras, Ernest L.,3,443,284.
Poittevin, Andre: *See—*
Muller, Georges; and Poittevin, Andre,3,420,834.
Muller, Georges; and Poittevin, Andre,3,426,027.
Muller, Georges; and Poittevin, Andre,3,442,953.
Poivilliers, Jean: *See—*
Bougon, Michel; Hugues, Edgard; and Poivilliers, Jean,3,485,547.
Pojawis, Paul L.: *See—*
Feeney, Joseph W.; Pojawis, Paul L.; Allenbaugh, James E., Jr.; and Mc Nair, John W., Jr.,3,463,656.
Pokhodnya, Igor Konstantinovich; and Shlepakov, Valery Nikolaevich. Electrode for welding and building up metals and their alloys. 3,457,388, 7-22-69, Cl. 219-146.
Pokorny, Gerold E., to Litton Precision Products, Inc. Acoustic surface wave device. 3,479,572, 11-18-69, Cl. 317-235.
Pokrandt, Glenn C.: *See—*
Wellauer, Edward J.; Hein, Quentin W.; Bade, Alfred G.; and Pokrandt, Glenn C.,3,457,731.
Pokriots, Wilford Lewis: *See—*
Mazzei, Gene L.; and Pokriots, Wilford Lewis,3,435,487.

Polacco, Ezio; and Denti, Francesco, to ACSA Applicazioni Chimiche S.p.A. Tow treatment for preparation og high-bulk yarns. 3,444,682, 5-20-69, Cl. 57-140.
Polack, Robert M., to Commercial Machinery Corporation. Closed circuit deterrent system. 3,467,771, 9-16-69, Cl. 178-6.6
Polacoat Incorporated: *See*—
Dreyer, John F.; and Baltzer, Donald H., 3,436,353.
Polak, James C.: *See*—
Fuehrer, Reece R.; and Polak, James C.,3,478,852.
Polak, Roger J.; and Zaslowsky, Joel A., to Olin Mathieson Chemical Corporation. Glycidol recovery process. 3,457,282, 7-22-69, Cl. 260-348.6
Polakowski, Natalis H. Means for surface conditioning metal strip. 3,455,136, 7-15-69, Cl. 72-199.
Polakowski, Natalis H. Flexible strip rolling mill. 3,478,559, 11-18-69, Cl. 72-242.
Polakowski, William G., to TRW Inc., mesne. Brushless DC motor. 3,453,512, 7-1-69, Cl. 318-138.
Polanyi, Michael L., to American Optical Company, mesne. Oximeters. 3,461,856, 8-19-69, Cl. 128-2.
Polanyi, Michael L., to Warner-Lambert Pharmaceutical Company, mesne. Elongated flexible fiber optical sheet-like layer and associated optical components for transmitting two-dimensional images. 3,471,214, 10-7-69, Cl. 350-96.
Polanyi, Thomas G.; and Tobias, Irwin, to Laser Incorporated. Laser stabilization apparatus. 3,453,557, 7-1-69, Cl. 331-94.5
Polar Ware Company: *See*—
Hess, Kenneth G., 3,421,466.
Polarad Electronics Corporation: *See*—
Jaffe, David Lawrence, 3,427,956.
Polaroid Corporation: *See*—
Bachelder, Albert J., 3,433,637.
Bachelder, Albert J.; and Donovan, John E., 3,455,691.
Bachelder, Albert J.; Hibben, George C.; and Rebelsky, William, 3,455,692.
Bader, Henry; and Buckler, Sheldon, 3,467,711.
Baker, James G., 3,478,662.
Bartlett, Philip D.; and Friedman, Melvin, 3,443,091.
Bartlett, Philip D., 3,447,436.
Bellows, Alfred H., 3,468,229.
Bellows, Alfred H., 3,468,230.
Biber, Conrad H., 3,438,766.
Biber, Conrad H., 3,442,198.
Bird, George R.; and Parrish, Maxfield, Jr., 3,479,168.
Bloom, Stanley M., 3,431,260.
Bloom, Stanley M.; and Stephens, Robert K., 3,443,939.
Bloom, Stanley M.; and Huyffer, Paul S., 3,459,548.
Bloom, Stanley M.; and Huyffer, Paul S., 3,482,971.
Blout, Elkan R.; Cohen, Saul G.; Green, Milton; and Simon, Myron S., 3,429,872.
Boothman, Grover, 3,459,323.
Boyle, Eldridge R., Jr., 3,429,243.
Brackett, Robert D., 3,473,873.
Brandt, Edison R.; and Knight, Frank W., Jr., 3,421,425.
Burgarella, John P., 3,433,138.
Burgarella, John P., 3,446,129.
Burgarella, John P., 3,455,219.
Burgarella, John Paul, 3,461,784.
Buzzell, Harold O.; and Rizzotto, Robert S., 3,455,754.
Byrnes, Edward G., 3,473,867.
Carlson, David P.; and Reid, Jerome L., 3,427,158.
Carlson, David P.; and Reid, Jerome L., 3,455,685.
Chen, Richard J.; and Gold, Nicholas, 3,424,074.
Chen, Richard J.; and Gold, Nicholas, 3,438,835.
Chen, Richard J.; and Gold, Nicholas, 3,453,138.
Chen, Richard J.; and Gold, Nicholas, 3,460,456.
Chen, Richard J.; and Gold, Nicholas, 3,473,459.
Cook, Gerald H.; and Downey, Rogers B., 3,446,131.
Cook, Russell P., 3,424,584.
Cooper, Dexter P., Jr., 3,443,023.
Cooper, Dexter P., Jr., 3,447,877.
Cooper, Dexter P., Jr., 3,459,111.
Cotta, Ezio D.; and Ford, Vernon E., 3,468,237.
Davison, Richard H.; and Dietz, Milton S., 3,464,332.
Dietz, Milton S., 3,446,128.
Dietz, Milton S., 3,455,220.
Downey, Rogers B.; and Cook, Gerald H., 3,421,423.
Downey, Rogers B.; and Silverman, Allyn M., 3,437,023.
Downey, Rogers B.; and Silverman, Allyn M., 3,437,024.
Downey, Rogers B., 3,455,222.
Eloranta, Vaito K., 3,452,661.
Erikson, Herman E., 3,433,950.
Erikson, Herman E.; Brackett, Robert D.; and Young, Phillip E., 3,462,599.
Erlichman, Irving, 3,479,941.
Farney, Leonard C.; Rogers, Howard G.; and Young, Richard W., 3,455,686.
Ferrari, Leonard A., 3,452,245.
Gianino, Francis T., 3,443,499.
Gold, Nathan, 3,443,025.
Gold, Nathan, 3,485,943.
Gold, Nicholas, 3,460,453.
Green, Milton; Sayigh, Adnan A.; and Ulrich, Henri, 3,455,916.
Groes, Thomas, 3,473,453.
Haas, Howard C.; and Taylor, Lloyd D., 3,427,250.
Haas, Howard C., 3,433,633.
Haas, Howard C.; and Schuler, Norman W., 3,444,150.
Haas, Howard C., 3,451,926.
Haas, Howard C., 3,452,182.
Haas, Howard C., 3,459,580.
Haas, Howard C., 3,460,941.
Hamilton, Joel A., 3,433,636.
Hanna, William L.; and Petersen, Christian C., 3,479,485.
Idelson, Elbert M., 3,453,107.
Idelson, Elbert M., 3,482,972.
Ivester, Andrew S., 3,433,144.
Ivester, Andrew S., 3,461,785.
Ivester, Andrew S., 3,473,452.
Jarrett, Arthur D., 3,424,742.
Kasman, Sidney; and Rogers, Howard G., 3,438,775.
Kolesinski, Henry S.; and Roth, Peter H., 3,460,945.
Land, Edwin H., 3,427,159.
Land, Edwin H.; and Rogers, Howard G., 3,443,855.
Land, Edwin H., 3,451,814.
Land, Edwin H., 3,455,633.
Land, Edwin H., 3,460,452.
Land, Edwin H., 3,462,222.
Land, Edwin H., 3,462,265.
Land, Edwin H., 3,478,660.
Land, Edwin H.; and Wolff, Otto E., 3,479,184.
Land, Edwin H., 3,479,936.
Land, Edwin H.; and Eloranta, Vaito K., 3,479,942.
Land, Edwin H.; and Eloranta, Vaito K., 3,485,155.
Land, Edwin H., 3,485,628.
Makas, Albert S., 3,438,691.
Mc Cune, William J., Jr., 3,427,160.
McCune, William J., Jr., 3,468,662.
Milligan, Terry W.; and Young, Richard W., 3,473,925.
Morse, Meroe M., 3,451,815.
Nawn, George H.; and Timson, William J., 3,424,581.
Norton, Robert L., 3,426,664.
Norton, Robert L., 3,430,547.
Norton, Robert L.; and Rosen, William J., 3,443,500.
Nyman, William F., 3,424,070.
Odiorne, John W., 3,447,221.
Raia, Richard M.; and Sullivan, Robert T., 3,451,321.
Rice, Christopher R., 3,429,247.
Rice, Christopher R., 3,437,025.
Rice, Christopher R., 3,447,439.
Rogers, Howard G., 3,433,635.
Rogers, Howard G., 3,443,859.
Rogers, Howard G., 3,443,941.
Rogers, Howard G.; and Bloom, Stanley M., 3,443,943.
Rogers, Howard G., 3,460,942.
Rogers, Howard G., 3,468,228.
Rogers, Howard G., 3,473,013.
Rogers, Howard G., 3,473,924.
Silverman, Allyn M.; and Triggs, Charles W., 3,446,127.
Sullivan, Robert T., 3,479,937.
Taylor, Lloyd D., 3,421,892.
Taylor, Lloyd D., 3,421,893.
Taylor, Lloyd D., 3,422,075.
Taylor, Lloyd D.; and Roth, Peter H., 3,479,186.
Tiffany, Douglas B., 3,447,437.
Ting, Lawrence K. M., 3,447,028.
Topaz, Jeremy M., 3,438,313.
Triggs, Charles W., 3,438,698.
Walworth, Vivian K., 3,459,553.
Wareham, Richard R., 3,451,818.
Wolff, Otto E., 3,479,497.
Young, Richard W., 3,438,550.
Polasek, Karl Hans; Rudestedt, Sven Jan Einar; and Umblia, Elmar Johannes, to Telefonaktiebolaget L M Ericsson. Procedure for producing a ferrite, especially adequate for use in pulse relay cores. 3,420,777, 1-7-69, Cl. 252-62.62
Polasek, Karl, to Telefonaktiebolaget L M Ericsson. Arrangement for connection of at least two conductors. 3,445,816, 5-20-69, Cl. 340-166.
Polcer, John, to Foster Wheeler Corporation. Multi-layer pressure vessel. 3,464,581, 9-2-69, Cl. 220-46.
Polcon Corporation: *See*—
Smolski, Ludwik, 3,452,966.
Polder, John M., to Clevite Corporation. Record medium transport and rewind system for a recording instrument. 3,474,981, 10-28-69, Cl. 242-67.3
Poldervaart, Arie W.: *See*—
Maddox, Howard M.; and Poldervaart, Arie W.,3,465,300.
Pole, Robert V., to International Business Machines Corporation. Apparatus for controlling the emission of laser light. 3,440,560, 4-22-69, Cl. 331-94.5

327-709 O-LT - 71 - pt. 1 - 79

Pole, Robert V., to International Business Machines Corporation. Laser scanning device having two lens systems with a common focal plane. 3,480,875, 11-25-69, Cl. 331-94.5

Pole, Robert V.; and Barrekette, Euval S., to International Business Machines Corporation. Apparatus for controlling the area of emission of laser light. 3,458,829, 7-29-69, Cl. 331-94.5

Pole, Robert V.; Myers, Robert A.; Barrekette, Euval S.; and Nunez, Jaen, to International Business Machines Corporation. Apparatus employing electronic light shutters for switching the direction of a laser beam along discrete paths. 3,440,561, 4-22-69, Cl. 331-94.5

Pole, Robert V.; and Nunez, Jaen, to International Business Machines Corporation. Apparatus employing electronic light shutters for switching the direction of a laser beam along discrete paths. 3,432,767, 3-11-69, Cl. 331-94.5

Pole, Robert V.; Wieder, Harold; and Myers, Robert A., to International Business Machines Corporation. Laser projector for phase modulating objects. 3,466,110, 9-9-69, Cl. 350-3.5

Polen, Percy B., to Velsicol Chemical Corporation. Worktable. 3,442,230, 5-6-69, Cl. 108-24.

Polensky, Gerhard; and Raab, Gunter, to Siemens Aktiengesellschaft. Circuit arrangement for determining subscriber call numbers in telephone systems. 3,453,393, 7-1-69, Cl. 179-18.

Poleschuk, Nicholas A., to Boyne Products, Inc. Vehicle direction signaling and hazard warning switching apparatus. 3,462,570, 8-19-69, Cl. 200-61.27

Polese, James P., to Varian Associates. Method of making cylindrical mesh electrode for electron tubes. 3,465,400, 9-9-69, Cl. 29-25.14

Polewski, Robert E., to Kenner Products Company, mesne. Mechanical toy. 3,477,172, 11-11-69, Cl. 46-243.

Polgar, Michael S.: *See—*
Majkrzak, Charles P.; and Polgar, Michael S.,3,449,589.

Polhall, Karl Olof Adolf; Hermansson, Rolf Torsten; and Olsson, Roy Erik Tore, to Morgardshammar Aktiebolag. Universal coupling, preferably for rolling mills. 3,443,400, 5-13-69, Cl. 64-8.

Polhemus, Frederick C., Jr.: *See—*
Schmidtke, Richard A.; and Polhemus, Frederick C., Jr.,3,477,262.

Polhemus, John T., to Martin-Marietta Corporation. Error correcting decoder. 3,444,522, 5-13-69, Cl. 340-172.5

Poliak, Richard M., to International Business Machines Corporation. Glycol soldering fluxes. 3,436,278, 4-1-69, Cl. 148-23.

Polichette, Joseph N., to Photocircuits Corporation. Apparatus for electroplating selected areas. 3,468,785, 9-23-69, Cl. 204-224.

Polidor, Herbert C., to Simmonds Precision Products, Inc. Variable speed transmission. 3,463,028, 8-26-69, Cl. 74-366.

Polidori, Mario, to AMP Incorporated. Electrical connector crimping tool. 3,470,728, 10-7-69, Cl. 72-410.

Polimeni, Vincent: *See—*
Saunders, James L.; and Polimeni, Vincent,3,475,871.

Polin, Herbert S. Methods for enhancing the effectiveness of drugs which employ an alkylated phenoxy (polyethanol). 3,440,318, 4-22-69, Cl. 424-182.

Polino, Amleto C.: *See—*
Feffer, Philip C.; Polino, Amleto C.; and Rickell, Arthur L.,3,427,737.

Polischuk, Semen Moiseevich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.

Polistina, Rocco Albert: *See—*
Schmitt, Edward Emil; and Polistina, Rocco Albert,3,463,158.
Schmitt, Edward Emil; and Polistina, Rocco Albert,3,468,853.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert,3,435,008.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert,3,442,871.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert,3,457,280.

Politechnicka Warszawska: *See—*
Brach, Ignacy, 3,425,572.

Politechnika Warszawska: *See—*
Trylinski, Wladyslaw; Burzynski, Stanislaw; Pawlowski, Jerzy; and Rawski, Ryszard, 3,485,446.

Polito, William J.; and Rozgonyi, George A., to Bell Telephone Laboratories, Incorporated. Cathodic sputtering of films of stoichiometric zinc oxide. 3,420,763, 1-7-69, Cl. 204-192.

Politz, William E., to Young, Stephen A. Fitting mounting means. 3,427,049, 2-11-69, Cl. 285-46.

Politz, William E., to Young, Stephen A. Drain valve connecting means. 3,453,667, 7-8-69, Cl. 4-295.

Politz, William E., to Young, Stephen A. Means to connect threaded and non-threaded surfaces. 3,455,581, 7-15-69, Cl. 285-287.

Politz, William E., to Young, Stephen A. Self-contained drainplug. 3,468,512, 9-23-69, Cl. 251-74.

Politz, William E., to Young, Stephen A. Bath drain with self-adjusting shut-off. 3,471,873, 10-14-69, Cl. 4-199.

Politzer, Alfred; Drtina, Otto V.; and Bedoch, Joseph S., to Nylonge Corporation. Web treating method. 3,473,884, 10-21-69, Cl. 8-108.

Polivka, Emil P.: *See—*
Camp, Henry R.; and Polivka, Emil P.,3,443,168.

Polizzano, Fred F., to General Cable Corporation. Method and apparatus for making cable. 3,485,689, 12-23-69, Cl. 156-54.

Polizzi, Daniel D. Cyclic control for multiple valves. 3,422,847, 1-21-69, Cl. 137-624.18

Polizzi, Michael S.: *See—*
Alkire, William B.; and Wiley, Robert B., 3,421,526.

Polk, Albert S., Jr., to United States of America, Navy, mesne. Corner inlet blowout dome. 3,482,403, 12-9-69, Cl. 60-245.

Polk, Andrew W., Jr.: *See—*
Koller, Edward J.; Pierce, Thomas J.; and Polk, Andrew W., Jr.,3,423,085.

Polk, Edgwin R.; and La Grassa, Antonio, to Keene Packaging Associates. Method and apparatus for treating and covering an insert with thermoplastic material. 3,466,214, 9-9-69, Cl. 156-213.

Polk, Edwin C., to Cleveland Technical Center, Inc. Sealing structure embodying deformable ring. 3,436,085, 4-1-69, Cl. 277-165.

Polk, Ralph, Jr. Banana peeler. 3,451,451, 6-24-69, Cl. 146-224.

Polk, Robert G.: *See—*
Koehler, Dale R.; Grissom, John T.; and Polk, Robert G.,3,445,591.

Polkinghorn, Robert W.; and Pfeifer, Arthur F., to North American Rockwell Corporation. MOS transistor driver using a control signal. 3,480,796, 11-25-69, Cl. 307-251.

Poll, Willy, to Golding Intercito SA. Apparatus for counting and presorting rods. 3,450,249, 6-17-69, Cl. 198-40.

Pollacco, William F. Visual control system. 3,475,843, 11-4-69, Cl. 40-63.

Pollack, Howard Merrill, to General Precision Systems Inc. Rotating gyroscope reference system. 3,424,010, 1-28-69, Cl. 74-5.34

Pollack, Isidore: *See—*
Derbyshire, John, Jr.; Pollack, Isidore; and Pawloski, Victor A.,3,425,950.

Pollack, James Richard Allan; Pool, Alan Aldred; and Ellis, Graham John, to Guinness, Arthur, Sons & Company (Dublin) Limited Irish Mallsters Association, The, and Rimer Manufacturing Company Limited. Malting apparatus in series. 3,450,600, 6-17-69, Cl. 195-129.

Pollack, Roy L.: *See—*
Lasier, Thomas R.; and Pollack, Roy L.,3,426,382.
Lasier, Thomas R.; and Pollack, Roy L.,3,426,383.

Pollack, Werner: *See—*
Bucklin, Edward P., Jr.; Pollack, Werner; and Carlson, Carl O.,3,434,110.

Pollack, William, to Ortho Pharmaceutical Corporation. Preparation of anti-Rh gobulin from human plasma. 3,449,314, 6-10-69, Cl. 260-112.

Pollak, Abraham, deceased0 (by Pollak, Henry Martin0Pollak, Robert Samuel; executors). Saw supporting structure. 3,463,205, 8-26-69, Cl. 143-47.

Pollak, Alfred, to Telefunken Patentverwertungsgesellschaft m.b.H. Keyed automatic gain control circuit for television receivers. 3,439,115, 4-15-69, Cl. 178-7.3

Pollak, Edward C.; Harman, Bennett B.; and Solomon, William. Emergency door lock having alarm means. 3,435,643, 4-1-69, Cl. 70-92.

Pollak, Henry Martin: *See—*
Pollak, Abraham,3,463,205.

Pollak, Henry M.; and Pollak, Robert S. Radial arm machine tool. 3,450,176, 6-17-69, Cl. 143-6.

Pollak, Joseph, Corporation: *See—*
Schattler, James J., 3,465,270.

Pollak, Lud. Sun visor. 3,480,322, 11-25-69, Cl. 296-97.

Pollak, Peter I., to Merck & Co., Inc.3,6-Dihydro-1,2-dioxin and it' method of production. 3,429,897, 2-25-69, Cl. 260-340.6

Pollak, Peter I.; and Tull, Roger J., to Merck & Co., Inc. Preparation of pyrazinoylguanidine and pyrazinamidoguanidine products. 3,432,502, 3-11-69, Cl. 260-250.

Pollak, Peter I.; and Tull, Roger J., to Merck & Co., Inc. Process for the preparation of pyrazinoylguanidines. 3,444,165, 5-13-69, Cl. 260-250.

Pollak, Peter I.; and Tull, Roger J., to Merck & Co., Inc. Process for the preparation of pyrazinoylguanidines. 3,449,341, 6-10-69, Cl. 260-250.

Pollak, Peter I.; and Tull, Roger J., to Merck & Co., Inc. Conversion of pyrazinoylcyanamides to pyrazinoylguanidines. 3,472,847, 10-14-69, Cl. 260-250.

Pollak, Peter I.: *See—*
Weinstock, Leonard M.; Tull, Roger J.; and Pollak, Peter I.,3,467,653.

Pollak, Robert Samuel: *See—*
Pollak, Abraham,3,463,205.
Pollak, Henry M.; and Pollak, Robert S.,3,450,176.

Pollak, Walter, to General Motors Corporation. Vehicle body closure operator. 3,422,572, 1-21-69, Cl. 49-280.
Pollanz, Alfred, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Lined structure and method of making same. 3,442,417, 5-6-69, Cl. 220-63.
Pollard, Charles: *See—*
Gilreath, Lafayette E.; and Pollard, Charles,3,435,732.
Pollard, Ernest M., to General Electric Company. Surge suppressing means for static circuit breakers. 3,450,894, 6-17-69, Cl. 307-202.
Pollard, Frank Bowles; and Arnold, Jack Harold, Jr. Marine vehicles. 3,468,276, 9-23-69, Cl. 114-1.
Pollard, Leonard W., to Alchem Limited. Refractory coating compositions. 3,428,464, 2-18-69, Cl. 106-38.23
Pollaschek, Viktor: *See—*
De Lange, Herman Kasper Adriaan; and Pollaschek, Viktor,3,424,965.
Pollatch Forests, Inc.: *See—*
Keller, Harold A., 3,481,376.
Polledri, Jean: *See—*
Boulet, Francis; and Polledri, Jean,3,461,546.
Pollet, Robert Joseph: *See—*
Eerdekens, Pieter Hendrik; and Pollet, Robert Joseph,3,470,191.
Vanden Eynde, Hector Alfons; Pollet, Robert Joseph; and De Cat, Arthur Henri,3,462,270.
Polley, John E.: *See—*
Davis, Ralph D.; and Polley, John E.,3,446,309.
Polley, Robert F. L. Infant sleeping garment with posterior posture pad. 3,485,241, 12-23-69, Cl. 128-135.
Polley, Robert W.: *See—*
Sloan, Donald D.; and Polley, Robert W.,3,450,474.
Pollick, Stanley J. Furnace humidifier. 3,443,559, 5-13-69, Cl. 126-113.
Pollinger, Hans: *See—*
Bruhn, Wilhelm; and Pollinger, Hans,3,482,662.
Pollinger, Hans; and Wosegien, Bernd, to Knorr-Bremse G.m.b.H. Air braking system for railway vehicles. 3,425,752, 2-4-69, Cl. 303-23.
Pollit, Walter M. Composite pipe composition. 3,455,338, 7-15-69, Cl. 138-178.
Pollitz, Harold C.; Schrimper, Vernon L.; and Fairchild, Louis F., to Iowa Manufacturing Company. Bituminous paver. 3,453,939, 7-8-69, Cl. 94-46.
Pollitzer, Ernest L., to Universal Oil Products Company. Transalkylation process. 3,437,710, 4-8-69, Cl. 260-672.
Pollitzer, Ernest L., to Universal Oil Products Company. Transalkylation process. 3,442,966, 5-6-69, Cl. 260-672.
Pollitzer, Ernest L.; and Hilfman, Lee, to Universal Oil Products Company. Method of preparing a catalytic composite containing dispersed aluminosilicate. 3,472,793, 10-14-69, Cl. 252-452.
Pollock, Allen E. Method of transplanting. 3,432,950, 3-18-69, Cl. 37-195.
Pollock, Bernard D., to United States of America, Atomic Energy Commission mesne. Refractory metal dispersion. 3,475,340, 10-28-69, Cl. 252-301.1
Pollock, David B.: *See—*
Mevers, Gus E.; and Pollock, David B.,3,420,600.
Mevers, Gus E.; and Pollock, David B.,3,473,030.
Pollock, David Harry, to Xerox Corporation, mesne. Cesium light source. 3,487,252, 12-30-69, Cl. 313-180.
Pollock, Larry J., to Westinghouse Electric Corporation. Fabrication of structures for semiconductor integrated circuits. 3,421,205, 1-14-69, Cl. 29-580.
Pollock, Larry J.; and Shaunfield, Wallace N., to Westinghouse Electric Corporation. Semiconductor structures for integrated circuitry and method of making the same. 3,441,815, 4-29-69, Cl. 317-235.
Pollock, Lyle W., to Phillips Petroleum Company. Method and apparatus for handling of a fluid. 3,424,733, 1-28-69, Cl. 260-85.3
Pollock, Lyle W., to Phillips Petroleum Company. Masterbatching elastomer solution polymers. 3,449,284, 6-10-69, Cl. 260-29.7
Pollock, Lyle W., to Phillips Petroleum Company. Process for preparing polymeric blends. 3,458,602, 7-29-69, Cl. 260-880.
Pollock, Mark W., to Argus Chemical Corporation. Polyvinyl chloride resin stabilizer systems and resin compositions stabilized therewith. 3,453,225, 7-1-69, Cl. 260-23.
Pollock, Mark W.; and Hecker, Arthur C., to Argus Chemical Corporation. Protection of propylene polymer fibers from deterioration by light. 3,429,841, 2-25-69, Cl. 260-28.
Pollock, Michael J.: *See—*
Godsey, William J.; and Pollock, Michael J.,3,439,616.
Pollock, Samuel C., to General Motors Corporation. Wiper blade control link. 3,428,995, 2-25-69, Cl. 15-250.23
Pollock, Samuel C., to General Motors Corporation. Safety latch for hinged seat back. 3,444,949, 5-20-69, Cl. 180-82.
Pollock, Tillie W.: *See—*
Godsey, William J.; and Pollock, Michael J.,3,439,616.
Pollock, Warren I.: *See—*
Jacobson, Howard W.; and Pollock, Warren I.,3,475,233.
Buff, Fred; French, Marcus; and Pollock, Warren,3,476,845.
Pollution Controls, Inc.: *See—*
Reckers, Donald J., 3,438,499.
Polly, Uhel D., to Consolidated Productions, Inc. Method for making plastic articles. 3,459,614, 8-5-69, Cl. 156-174.
Polmanteer, Keith E.: *See—*
Metevia, Virgil L.; and Polmanteer, Keith E.,3,453,228.
Poloncic, Stanley J.: *See—*
Aronstein, Jesse; Mozer, Donald T.; and Poloncic, Stanley J.,3,426,883.
Polonsky, Samuel; and King, Bartley E., to General Electric Company. Timer switch. 3,432,625, 3-11-69, Cl. 200-35.
Polorny, Oldrich: *See—*
Bezouska, Vlastimil; Skvor, Josef; Pajisek, Frantisek; Zavazal, Zdenek; and Polorny, Oldrich,3,435,304.
Polotsky, Vadim Evgenievich: *See—*
Gromov, Anatoly Pavlovich; Lukasheva, Evgenia Nikolaevna; Glazkov, Anatoly Vasilievich; Livshits, Abram Lazarevich; Pozhalkin, Vladimir Vasilievich; Polotsky, Vadim Evgenievich; and Scherbak, Mikhail Venediktovich,3,472,993.
Polovets, Lidia Mikhailovna; Belitchenko, Valentina Ilinichna; and Legut, Ljudmila Vasilievna. Shaft for the air flow cooling of fibers spun from a polymeric melt. 3,444,587, 5-20-69, Cl. 18-8.
Polrotor, Incorporated: *See—*
Hergert, Heinz, 3,465,397.
Polson, Lawrence L., to Itek Corporation, mesne. High voltage operational amplifier for use as an electronically controllable power supply regulator. 3,458,801, 7-29-69, Cl. 323-21.
Polster, Norman E., to Leeds & Northrup Company. Multiple use recorder. 3,438,049, 4-8-69, Cl. 346-29.
Polster, Norman E.; Ross, Raymond W.; and Williams, Albert J., Jr., to Leeds & Northrup Company. Analog decimal recorder with overlapping ranges. 3,460,155, 8-5-69, Cl. 346-66.
Polster, Rudolf: *See—*
Kranz, Joachim; Maier, Karl; and Polster, Rudolf,3,435,054.
Polston, John Ray. Gate valve. 3,461,904, 8-19-69, Cl. 137-315.
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich. Material handling device for back filling comprising perpendicular conveyors. 3,443,836, 5-13-69, Cl. 299-36.
Poltersdorf, Otto: *See—*
Pizzarello, Roy A.; and Poltersdorf, Otto,3,440,000.
Poltonavage, Edward Michael: *See—*
Fernald, Charles Henry; and Poltonavage, Edward Michael,3,453,578.
Poltorak, Emil Jacob, to Johns-Manville Corporation. Expansible packing with metal mesh core. 3,481,824, 12-2-69, Cl. 161-175.
Poly-Matic Fountain, Inc.: *See—*
Davis, Albert W.; and Franklin, Burton P., 3,450,102.
Davis, Albert W., 3,450,103.
Poly-Optics, Inc.: *See—*
Fyfe, Paul, 3,472,921.
Poly-Pak Corporation of America: *See—*
Whiteford, Carlton L., 3,439,078.
Polyakov, Evgeny Valentinovich: *See—*
Vereschagin, Leonid Fedorovich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; and Surkov, Ivan Efimovich,3,446,427.
Polychrome Corporation: *See—*
Chu, Simon, 3,440,050.
Shimazu, Ken-Ichi, 3,481,271.
Polymark Limited: *See—*
Day, Ian H., 3,464,772.
Polymer Corporation Limited: *See—*
Chalmers, David Calder; and Mitchell, Joseph Maxwell, 3,438,924.
Clark, Roy, 3,459,089.
Darcy, Jules; and Dunn, John R., 3,431,231.
Kruger, Gerhard, 3,436,243.
Mason, Colin P., 3,467,563.
Orr, Robert J.; and Hazel, John Evan, 3,454,541.
Orr, Robert J.; Breitman, Leo; and Buckler, Ernest J., 3,467,620.
Scherf, Gerhard Wolfgang Helmut; and Henderson, John Frederick, 3,431,245.
Scherf, Gerhard Wolfgang Helmut; and Henderson, John Frederick, 3,435,014.
Seto-Kenneth H., 3,484,405.
Wei, Yung-Kang, 3,429,863.
Polymer Corporation, The: *See—*
Benz, John W., Jr., 3,483,058.
Davis, William J., 3,427,179.
Davis, William J., 3,427,277.
Lucas, Bennie M., 3,451,976.
Pettigrew, Carl K.; Siminski, Michael C., Jr.; and Swavely, Donald F., 3,431,887.
Richart, Douglas Stephen, 3,453,221.
Sharetts, Robert R., 3,440,078.
Steely, Norman E., 3,423,372.

Warner, Robert Edmund, 3,427,289.
Polymer Dispersions, Inc.: *See—*
Carton, Edwin B., 3,422,056.
Polymer Engineering Corporation: *See—*
Nielsen, Paul O., 3,450,253.
Polymer Incorporated: *See—*
Dinges, Margaret V., 3,454,166.
Polymer Processing Research Institute Ltd.: *See—*
Yazawa, Masahide, 3,426,113.
Polymir Industries, Inc.: *See—*
Sobek, Dale W.; and Giacomelli, David B., 3,435,946.
Polyprodukte AG: *See—*
Hirmann, Georg, 3,424,012.
Polysius G.m.b.H.: *See—*
Frank, Dieter; and Polysius, Jochen, 3,481,636.
Lellep, Otto George; and Helming, Bernd, 3,436,060.
Polysius, Jochen: *See—*
Frank, Dieter; and Polysius, Jochen,3,481,636.
Polytop Corporation: *See—*
Hazard, Robert E., 3,454,196.
Hazard, Robert E., 3,477,618.
Johnson, Keith M.; Marine, Robert P.; and Akers, Edward G., 3,473,556.
Wilson, Woodrow S., 3,430,825.
Polytype AG: *See—*
Schutz, Rudolf, 3,473,640.
Polzin, Clayton H. W., to Falk Corporation, The, mesne. Method of manufacturing a speed reducer. 3,486,207, 12-30-69, Cl. 29-407.
Polzin, Donald Herman: *See—*
Peterson, Rudolph Andrew, Jr.; and Polzin, Donald Herman,3,471,171.
Ten Pas, Warren Edward; Schnell, Ernst Emil; and Polzin, Donald Herman,3,432,064.
Polzl, Reinhard Anton, to U.S. Philips Corporation, mesne. Delayed automatic gain control system. 3,440,543, 4-22-69, Cl. 325-404.
Poma, Anteo: *See—*
Nobile, Luciano; Condorelli, Emanuele; La Noce, Tullio; and Poma, Anteo,3,435,024.
Nobile, Luciano; Conorelli, Emanuele; La Noce, Tullio; and Poma, Anteo,3,451,936.
Pomagalski, Jean. Device for supporting and guiding the cable of an aerial cableway. 3,429,279, 2-25-69, Cl. 104-197.
Pomante, Louis N., to United Aircraft Corporation. Fabrication of thin silicon device chips. 3,478,418, 11-18-69, Cl. 29-574.
Pomares, Francis J. Paint applicator. 3,462,231, 8-19-69, Cl. 401-176.
Pomazkova, Zinaida Serafimovna: *See—*
Bogdanov, Alexandr Antonovich; Pomazkova, Zinaida Serafimovna; Petrova, Valentina Vasilievna; and Zhilenko, Vasily Anatolievich,3,475,634.
Pomella, Piero: *See—*
Elbling, Joseph; and Pomella, Piero,3,450,868.
Pomerantz, Daniel I.; and Wallis, George, to Mallory, P. R., & Co., Inc. Anodic bonding of liquid metals to insulators. 3,470,348, 9-30-69, Cl. 219-117.
Pomerantz, Harry, to Lee, Raymond, Organization, Inc., The. Quick attachable button. 3,440,692, 4-29-69, Cl. 24-108.
Pomerantz, Marvin A.: *See—*
Peterson, Thomas G.; and Pomerantz, Marvin A.,3,447,723.
Pomeranz, Harry: *See—*
Kashkin, Ronald; Lombardo, Peter P.; and Pomeranz, Harry,3,443,233.
Pomerene, James H., to International Business Machines Corporation. Multi-station digital communication system with each station address of specific length and combination of bits. 3,453,597, 7-1-69, Cl. 340-147.
Pomerene, James H.; and Melville, Richard W., to International Business Machines Corporation. Error correcting and repairable data processing storage system. 3,436,734, 4-1-69, Cl. 340-172.5
Pomernacki, Henry, to Illinois Tool Works Inc. Method and apparatus for making drilling screw. 3,422,472, 1-21-69, Cl. 10-10.
Pomeroy, Chester M.: *See—*
Brehmer, Thorwill; and Pomeroy, Chester M.,3,485,283.
Pomeroy, Clyde D. Method of positioning relative to a borehole of a string of tubular members for use therein. 3,455,395, 7-15-69, Cl. 166-315.
Pomeroy, J. H., & Co., Inc.: *See—*
Gerwick, Ben C., Jr.; and Farrell, Carl Y., 3,467,118.
Pomeroy, Robert L. Flexible drillstem. 3,422,914, 1-21-69, Cl. 175-320.
Pomish, Herbert: *See—*
Berke, Lanny R., 3,455,436.
Pommer, Ernst-Heinrich: *See—*
Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert,3,468,885.
Windel, Hermann; and Pommer, Ernst-Heinrich,3,441,581.
Pommer, Horst: *See—*
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Pommer, Horst,3,471,569.
Koenig, Karl-Heinz; and Pommer, Horst,3,437,668.
Koenig, Karl-Heinz; and Pommer, Horst,3,468,923.
Reif, Werner; Haug, Peter; Freyschlag, Herwig; and Pommer, Horst,3,485,859.
Schneider, Kurt; Pasedach, Heinrich; and Pommer, Horst,3,446,851.
Pomona Service & Supply Co., Inc.: *See—*
Crabb, Jasper R., 3,422,987.
Pomot, Jean; Amanrich, Robert; and Cousserans, Gilbert. Organomercury derivatives of isocyanuric acid. 3,458,508, 7-29-69, Cl. 260-242.
Pomp, Horst: *See—*
Markwitz, Bernhard; and Pomp, Horst,3,462,775.
Pompe, Wilhelmus A.M., to Vlamovensteenfabriek Van Hesteren & Janssens. Method and device for stacking uniform block-shaped elements to be bundled and transported such as bricks, concrete bricks, briquettes and the like and stacks composed by application of the method. 3,486,614, 12-30-69, Cl. 206-65.
Pomper, Seymour; and Akerman, Emanuel, to Standard Brands Incorporated. Active dry yeast. 3,440,058, 4-22-69, Cl. 99-96.
Pomper, Seymour; and Akerman, Emanuel, to Standard Brands Incorporated. Active dry yeast. 3,440,059, 4-22-69, Cl. 99-96.
Pomper, Seymour; and Akerman, Emanuel, to Standard Brands Incorporated. Preparation of active dry yeast. 3,448,010, 6-3-69, Cl. 195-74.
Pomroy, Carl: *See—*
Sententes, Thomas J.; and Pomroy, Carl,3,442,987.
Poms, Allan I., to Koppers Company, Inc. Fire-retardant panel instruction. 3,462,339, 8-19-69, Cl. 161-44.
Poncet, Pierre. Detection of the level of the metal bath in the moulds for continuous casting. 3,459,949, 8-5-69, Cl. 250-222.
Poncy, George W. Roll of tubing on a core and method of making it. 3,426,892, 2-11-69, Cl. 206-59.
Ponczek, George M.; Chambers, Worthy L.; and Ritter, Frederick J., to Sunbeam Corporation. Combination motor-blower unit for hair dryer. 3,439,204, 4-15-69, Cl. 310-58.
Pond, George R.: *See—*
Adlhart, Otto J.; Keith, Carl D.; and Pond, George R.,3,425,875.
Pond, Norman H.: *See—*
Robert E.; and Pond, Norman H.,3,448,324.
Ponder & Best: *See—*
McCain, Lawrence G., 3,427,103.
Ponemon, Warren E., to Koppers Company, Inc. Filament wound reinforced pressure vessel. 3,446,385, 5-27-69, Cl. 220-3.
Ponierio, Frank V., to Sperry Rand Corporation, Ford Instrument Company Division. Fluid operated accelerometer. 3,453,893, 7-8-69, Cl. 73-515.
Ponjee, Johannes Jacobus: *See—*
Schoot, Cornelis Johannes; and Ponjee, Johannes Jacobus,3,429,790.
Schoot, Cornelis Johannes; and Ponjee, Johannes Jacobus,3,471,379.
Pons, Claude: *See—*
Fasano, Germano; Sacchi, Giorgio; and Pons, Claude,3,440,499.
Pons, Heinz: *See—*
Spiroch, Franz; Kolless, Siegfried; and Pons, Heinz,3,445,796.
Ponsar, Yves M. Apparatus for control of liquid flow. 3,420,258, 1-7-69, Cl. 137-209.
Ponsness, Lloyd E., to Ponsness-Warren, Inc. Apparatus for reconditioning and reloading shotgun shells. 3,450,000, 6-17-69, Cl. 86-25.
Ponsness-Warren, Inc.: *See—*
Ponsness, Lloyd E., 3,450,000.
Ponstingl, John C.; and Valvo, Joseph F., to Westinghouse Electric Corporation. Tap changer control. 3,423,657, 1-21-69, Cl. 318-33.
Pontecorvo, Nicholas E. Apparatus for processing cheese curd into homogeneous cheese. 3,476,036, 11-4-69, Cl. 99-243.
Pontecorvo, Nicholas E.; and Shaffer, Wilfred A., to American Foods Machinery Corporation, mesne. Process for producing plasticized cheese from raw curd. 3,445,241, 5-20-69, Cl. 99-116.
Pontelandolfo, Joseph John, to American Cyanamid Company. Aqueous textile treating emulsion. 3,470,095, 9-30-69, Cl. 252-8.9
Pontis, William Grant. Power transmission device particularly for fluid applications. 3,424,011, 1-28-69, Cl. 74-18.1
Pontis, William Grant. Nutating shaft fluid flow meter with shaft transducers. 3,487,245, 12-30-69, Cl. 310-82.
Pontius, James R.: *See—*
Eakin, Gerald R.; and Pontius, James R.,3,466,917.
Pontone, Louis J. Tethered ball apparatus. 3,454,275, 7-8-69, Cl. 273-26.
Ponza, Lorenzo J. Ball throwing machine with pivotal resilient mount. 3,470,859, 10-7-69, Cl. 124-7.
Ponzar, Fred W., to Abex Corporation. Mold for casting railroad car wheels. 3,433,293, 3-18-69, Cl. 164-358.
Ponzoni, George B.: *See—*
Clinton, William P.; Mahlmann, James; and Ponzoni, George B.,3,438,784.
Pool, Alan Aldred: *See—*
Pollack, James Richard Allan; Pool, Alan Aldred; and Ellis, Graham John,3,450,600.
Pool, Clarence. Shock isolating leg assembly. 3,426,986, 2-11-69, Cl. 248-24.

Pool, Clarence. Cattle tag. 3,468,050, 9-23-69, Cl. 40-302.
Pool, James L.: *See*—
Arthur, John R.; Pool, James L.; and Graham, Richard K.,3,457,504.
Pool, James L.; and Von Tersch, Alfred L., to Lisle Corporation. Angle drive assembly. 3,448,592, 6-10-69, Cl. 64-20.
Pool, Robert E.: *See*—
Delfino, Frank; and Pool, Robert E.,3,475,841.
Pool, Stuart D.; Everett, Charles V.; and Grillot, Homer N., to International Harvester Company. Fan for combine. 3,469,773, 9-30-69, Cl. 230-125.
Pool, Stuart D.; and Morkoski, James, to International Harvester Company. Waferizing machine. 3,430,583, 3-4-69, Cl. 107-8.
Pool, Stuart D.; and Reynolds, John F., to International Harvester Company. Fruit picker. 3,455,502, 7-15-69, Cl. 230-274.
Pool, Stuart D.; and Steingas, Richard R., to International Harvester Company. Devices for harvesting fruit and the like. 3,430,425, 3-4-69, Cl. 56-329.
Pool, Stuart D.; and Steingas, Richard R., to International Harvester Company. Inertia shaker construction. 3,479,806, 11-25-69, Cl. 56-328.
Pool, Stuart D.; Svereika, Edward; and Middlesworth, Tommy A., to International Harvester Company. Ground speed control. 3,481,122, 12-2-69, Cl. 56-21.
Pool, Stuart D.; Svereika, Edward; and Thayer, Arlie J., to International Harvester Company. Fruit catcher. 3,462,932, 8-26-69, Cl. 56-329.
Poole, Arthur J., to Babcock & Wilcox Company, The. Burner throat. 3,455,641, 7-15-69, Cl. 431-167.
Poole, Charles W. Hydrofoil device for outboard motors. 3,433,195, 3-18-69, Cl. 114-66.5
Poole, Charles W., to Ford Motor Company. Low tire pressure warning device. 3,472,197, 10-14-69, Cl. 116-34.
Poole, Dan A., to Anchor Hocking Glass Corporation. Stencil screen. 3,425,831, 2-4-69, Cl. 96-36.4
Poole, Harold George. Vehicles. 3,468,440, 9-23-69, Cl. 214-390.
Poole, Henry Gordon: *See*—
Shelton, Stephen M.; and Poole, Henry Gordon,3,464,813.
Poole, Horace, to Rolls-Royce Limited. Thrust spoiling and silencing in a gas turbine engine. 3,484,847, 12-16-69, Cl. 60-226.
Poole, Keith Roderick, to United Kingdom Atomic Energy Authority. Process for the bithermal isotopic enrichment of ammonia and hydrogen with deuterium and apparatus therefor. 3,437,442, 4-8-69, Cl. 23-193.
Poole, Richard R., to Pyrotel Corporation. Infrared quartz heater. 3,461,275, 8-12-69, Cl. 219-553.
Poole, Ronald Robertson, to General Motors Corporation. Inter-wall foamed thermal insulation. 3,446,881, 5-27-69, Cl. 264-45.
Poole, Ronald Robertson, to General Motors Corporation. Resilient supports and assemblies incorporating the same. 3,473,766, 10-21-69, Cl. 248-15.
Poole, Royce, to Potlatch Forests, Inc. Laminating press feeder. 3,463,299, 8-26-69, Cl. 198-179.
Poole, Victor David: *See*—
Wardleworth, James; and Poole, Victor David,3,424,544.
Pools, Anthony, Inc.: *See*—
Ortega, Robert, 3,421,482.
Poor, John H.; and Logan, Charles H. Automatic dispenser. 3,479,101, 11-18-69, Cl. 312-73.
Poos, George Ireland: *See*—
Mohrbacher, Richard Joseph; Poos, George Ireland; and Roszkowski, Adolph P.,3,471,619.
Pop, Laurentiu Ion: *See*—
Soleanicov, Vladimir; Pop, Laurentiu Ion; and Breicher, Erich,3,468,141.
Popa, Adrian E.: *See*—
Bridges, William B.; and Popa, Adrian E.,3,471,804.
Popa, Lazar, Jr.; and Lydick, Howard K., to Goodrich, B. F., Company, The. Pressure sensitive adhesives with improved water resistance. 3,485,896, 12-23-69, Cl. 260-901.
Pope, Gerald R.: *See*—
Weeden, Frank G.; Pope, Gerald R.; Petrosky, Willard L.; and Murphee, Burleigh R.,3,435,853.
Pope, Grady E.; and Armstrong, Jesse D., Jr., to American Superior Rubber Roller Company. Roller trimming and centering apparatus. 3,442,166, 5-6-69, Cl. 82-101.
Pope, John T.: *See*—
Leedy, Arthur A.; Pope, John T.; and Zimmerman, Harry M.,3,426,421.
Pope, Joseph A.; and Appleby, John E. H., to Mirrlees National Limited. Multi-shaft transmission couplings. 3,433,083, 3-18-69, Cl. 74-68.
Pope, Joseph A.; and Lowe, William. Epicyclic gearing. 3,473,416, 10-21-69, Cl. 74-801.
Pope, Joseph Albert; and Appleby, John Edwin Herbert. Internal combustion engines. 3,463,135, 8-26-69, Cl. 123-196.
Pope, Joseph Albert; and Appleby, John Edwin Herbert, to Mirrlees National Limited. Pressure lubrication systems. 3,480,113, 11-25-69, Cl. 184-6.
Pope, Joseph Albert; Lowe, William; and Ellis, Geoffrey Hender Stuart, to Mirrlees National Limited. Power transmission gearing. 3,430,508, 3-4-69, Cl. 74-410.
Pope, Joseph I.; Rickert, Paul E.; and Wilkinson, Robert R., to Hall-Toledo Corporation. High speed universal spindle for a grinding machine. 3,443,399, 5-13-69, Cl. 64-2.
Pope, Karl D.: *See*—
Morey, Thomas H.; and Pope, Karl D.,3,422,471.
Pope, Kenneth E., to UMC Industries, Inc. Electrical pyrotechnic programming system. 3,420,176, 1-7-69, Cl. 102-70.2
Pope, Kenneth E., to UMC Industries, Inc. Recording accelerometer. 3,445,857, 5-20-69, Cl. 346-7.
Pope, Kenneth E., to UMC Industries, Inc. Impact arming and tamper switch. 3,453,406, 7-1-69, Cl. 200-61.45
Pope, Kenneth E., to UMC Industries, Inc. Inertial height sensing system. 3,453,653, 7-1-69, Cl. 73-178.
Pope, Marvin E.: *See*—
Sines, Thomas E., 3,482,029.
Pope, Peter James, to Wilkinson Sword Limited. Abrasive apparatus. 3,425,167, 2-4-69, Cl. 51-80.
Pope, Richard A. Transparent bandage. 3,425,412, 2-4-69, Cl. 128-156.
Popeil, Samuel J. Roller, clip and composition of matter. 3,480,019, 11-25-69, Cl. 132-40.
Popeil, Samuel J. Production of puffed potatoes. 3,484,252, 12-16-69, Cl. 99-100.
Popelak, Alfred; Lettenbauer, Gustav; Schaumann, Wolfgang; and Ribbentrop, Annemarie, to Boehringer, C. F., & Soehne, G.m.b.H. 18-Hydroxy-yohimbane-carboxylic acid diesters. 3,464,995, 9-2-69, Cl. 260-287.
Popelar, Frank J. Liquid filtering system for machine coolant. 3,455,457, 7-15-69, Cl. 210-168.
Popendiker, Kurt: *See*—
Mohler, Werner; Reiser, Mario; Popendiker, Kurt; and Von Schuh, Heinz-Georg,3,422,107.
Popescu, Dumitru: *See*—
Nadasan, Stefan; Sulea, Paul; Popescu, Dumitru; Schaumburger, Carol; and Bakonyi, Coloman,3,450,236.
Popick, Harvey; and Roberts, Donald L., to United States of America, National Aeronautics and Space Administration. Laser apparatus for removing material from rotating objects. 3,472,998, 10-14-69, Cl. 219-121.
Poplar, Herbert: *See*—
Buck, David T.; Berdan, David; and Poplar, Herbert,3,487,356.
Poplaski, Daniel Eugene: *See*—
Long, Robert Alvin; and Poplaski, Daniel Eugene,3,420,086.
Poplawski, Robert, to United States of America, Air Force. Partial reverse flow separator. 3,421,299, 1-14-69, Cl. 55-448.
Popma, Dan C.; and Collins, Vernon G., to United States of America, National Aeronautics and Space Administration. Recovery potable water from human wastes in below-G conditions. 3,444,051, 5-13-69, Cl. 202-182.
Popodi, Alfred E., to United States of America, Navy, mesne. Threshold and limiting circuit with automatic level control. 3,440,443, 4-22-69, Cl. 307-235.
Popoff, Andrew, to United States of America, Navy. Apparatus for harmonic analysis of a comples waveform. 3,436,657, 4-1-69, Cl. 324-77.
Popoff, Ivan C.; and Buchholz, Bernard, to Pennsalt Chemicals Corporation. 3,6-Endoxohexahydrophthalimides. 3,448,117, 6-3-69, Cl. 260-326.
Popoff, Ivan C.; and Dever, James Louis, to Pennsalt Chemicals Corporation. Esters of heterocyclic-vinylphosphonates. 3,462,439, 8-19-69, Cl. 260-290.
Popoff, Ivan C.; and Loev, Bernard, to Pennsalt Chemicals Corporation. Halogenated organic compounds. 3,462,453, 8-19-69, Cl. 260-332.5
Popoff, Ivan C.; and Whitaker, Reginald Lyon, to Pennsalt Chemicals Corporation. Treating plants with phytotoxic, fluorosulfonated substituted phenols. 3,453,099, 7-1-69, Cl. 71-103.
Popoli, Vincent J. Ladders. 3,464,521, 9-2-69, Cl. 182-207.
Popoli, Vincent J. Ship salvage. 3,486,475, 12-30-69, Cl. 114-52.
Popot, Max R.: *See*—
Jube, George A.; and Popot, Max R.,3,443,765.
Popov, Boris Andreevich: *See*—
Vyaznikov, Alexandr Konstantinovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; and Khokhlov, Evgeny Ilich,3,446,258.
Vyaznikov, Alexandr Konstantinovich; Davydov, Alexei Ivanovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; Kohkhlov, Evgeny Ilich; and Charykov, Nikolai Frolovich,3,472,299.
Popov, Boris Vasilievich: *See*—
Konovalov, Vladimir Pavlovich; Krylov, Nickolai Ivanovich; Popov, Boris Vasilievich; and Rudakov, May Mikhailovich,3,466,961.
Krylov, Nikolai Ivanovich; Popov, Boris Vasilievich; Sidorov, Pavel Ivanovich; Saksagansky, Alexandr Teodorovich; Levitsky, Isaak Iosifovich; and Golovkina, Tatyana Borisovna,3,428,096.

Popov, Dmitry Mikhallovich. Apparatus for evaporating-condensing separation mixtures. 3,445,343, 5-20-69, Cl. 202-158.
Popovich, Richard G., to Westinghouse Electric Corporation. Detected boost voltage supply. 3,480,825, 11-25-69, Cl. 315-22.
Popovici, Nicolae; Potop, Petre; and Brandus, Liviu. Process for the advantageous utilization of SO_2 and NH_3 from the production of nitrogen and phosphatic fertilizers. 3,421,848, 1-14-69, Cl. 23-107.
Popp, Ralph: *See—*
Gilbert, Chalmers W.; and Popp, Ralph,3,433,942.
Poppe, Robert P.; and McNally, Donald E., to Steelcase, Inc. Chair construction. 3,431,022, 3-4-69, Cl. 297-445.
Poppelsdorf, Fedor, to Union Carbide Corporation. Preparation of bis [beta-(N,N-dimethylamino) alkyl] ethers. 3,480,675, 11-25-69, Cl. 260-584.
Poppenberg, Carl, to Westfalia Separator AG. Sealing of mounting of centrifugal separator. 3,476,310, 11-4-69, Cl. 233-1.
Poppendiek, Heinz F., to Geoscience Ltd. Fog generating means and techniques. 3,447,532, 6-3-69, Cl. 126-263.
Popper, Karel, to United States of America, Agriculture. Osmotic processes and apparatus. 3,423,310, 1-21-69, Cl. 210-23.
Popper, Peter: *See—*
Backer, Stanley; and Popper, Peter,3,434,275.
Poppink, Everett H.: *See—*
Beckett, Clark; and Poppink, Everett H.,3,447,926.
Poppitz, Harold A., to Chaska Chemical Company, Inc. Portable cleaning apparatus. 3,433,417, 3-18-69, Cl. 239-304.
Poppmeier, Werner. Method and apparatus for continuous casting. 3,437,128, 4-8-69, Cl. 164-82.
Porada, Joseph J., to National Dairy Products Corporation. Apparatus for forming portion sized food products. 3,468,462, 9-23-69, Cl. 225-97.
Porath, Gordon H.: *See—*
Greenberg, Myron L.; and Porath, Gordon H.,3,424,022.
Greenberg, Myron L.; and Porath, Gordon H.,3,430,318.
Greenberg, Myron L.; and Porath, Gordon H.,3,466,952.
Porath, Gordon H., to Babcock & Wilcox Company, The, mesne. Work follower rests. 3,425,168, 2-4-69, Cl. 51-105.
Kielas, Robert J.; and Porath, Gordon H.,3,461,752.
Porath, Nachum. Permanent magnet rotor type motor and control therefor. 3,482,156, 12-2-69, Cl. 318-138.
Porazinski, Robert F.: *See—*
Smitzer, Louis A.; and Porazinski, Robert F.,3,442,581.
Porcelli, Ernest J.: *See—*
Broderick, William J.; Frasier, Carlton R.; Hittel, Lorenz A.; Hope, George R., Jr.; Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,483,520.
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J.,3,475,731.
Figueroa, John W.; Goss, Gary J.; and Porcelli, Ernest J.,3,483,522.
Figueroa, John W.; Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,475,730.
Porcelli, Ernest J.; and Rakoczi, Laszlo L., to General Electric Company. Input/output control apparatus in a computer system. 3,475,729, 10-28-69, Cl. 340-172.5
Porcello, Leonard J.: *See—*
Blikken, Wendell A.; Cutrona, Louis J.; Ingalls, Arthur L.; Leith, Emmett N.; and Porcello, Leonard J.,3,427,104.
Porcherot, Marcel, to Societe des Forges et Ateliers du Creusot. Device for cooling converter trunnions. 3,442,326, 5-6-69, Cl. 165-47.
Porepp, Hans. Covered watertight slide fastener. 3,422,503, 1-21-69, Cl. 24-205.1
Porepp, Hans. Apparatus for making a continuous row of-slide fastener links from a plastic thread. 3,461,486, 8-19-69, Cl. 18-1.
Pori, Hugo A. Swivel swing. 3,466,033, 9-9-69, Cl. 272-85.
Poris, Harry; and Hendrie, George S., to Macoid Industries, Inc. Method of making plastic file folder. 3,470,290, 9-30-69, Cl. 264-291.
Porquet, Christian: *See—*
Bouthors, Pierre; and Porquet, Christian,3,486,352.
Porret, Daniel: *See—*
Batzer, Hans; and Porret, Daniel,3,480,692.
Forster, Ewald; Porret, Daniel; and Ruf, Peter,3,483,168.
Porret, Daniel, to Ciba Limited. Water-soluble N,N'-diglycidyl compounds and curable compositions comprising said compounds. 3,429,833, 2-25-69, Cl. 260-2.
Porret, Daniel, to Ciba Limited. Derivatives of isocyanuric acid. 3,432,500, 3-11-69, Cl. 260-248.
Porret, Daniel; and Aenishaenslin, Rudolf, to Ciba Limited. N,N'-diglycidyl hydantoins. 3,449,353, 6-10-69, Cl. 260-309.5
Porret, Daniel; Lohse, Friedrich; Leumann, Ernst; Nikles, Erwin; and Batzer, Hans, to Ciba Limited. Hexahydrophthalimide polyepoxide compounds. 3,455,949, 7-15-69, Cl. 260-326.
Leumann, Ernst; and Porret, Daniel,3,465,030.
Metzger, Karl; Porret, Daniel; and Batzer, Hans,3,423,429.
Porri, Lido: *See—*
Natta, Giulio; Carbonaro, Antonio; Lionetti, Alberto; and Porri, Lido,3,462,406.
Porrmann, Herbert; Seifried, Walter; and Meyreis, Hans-Werner, to Kalle Aktiengesellschaft. Gas-permeable films and coatings from nitrogen-containing high-molecular weight products. 3,473,957, 10-21-69, Cl. 117-161.
Porsch, Fred W.; and Porsch, Walter F. Rotary internal combustion engine. 3,438,358, 4-15-69, Cl. 123-17.
Porsch, Hans: *See—*
Reimer, Carl; and Porsch, Hans,3,431,639.
Porsch, Walter F.: *See—*
Porsch, Fred W.; and Porsch, Walter F.,3,438,358.
Porsche, Dr.-Ing. H.c.F., K.G.: *See—*
Forstner, Egon; and Binder, Robert, 3,428,141.
Soffge, Friedhelm, 3,486,180.
Porsche, Dr.-Ing., H.c.F., K.G., Firma: *See—*
Austen, Jorg, 3,476,070.
Hensler, Paul, 3,435,612.
Hetmann, Richard, 3,478,834.
Pfisterer, Erwin; and Strohm, Siegfried, 3,435,713.
Porsche, Ferdinand Alexander; and Bamberg, Konrad, 3,451,500.
Porsche, Ferdinand Anton Ernst; and Eyb, Wolfgang, 3,460,644.
Ruoff, Karl; and Mittermeier, Walter, 3,455,178.
Schroeder, Gerhard Albert Richard; Trenkler, Werner; and Tomala, Hans, 3,476,437.
Szodfridt, Imre, 3,473,327.
Urbanczik, Georg; and Rau, Wolfgang, 3,442,449.
Porsche, Ferdinand Alexander; and Bamberg, Konrad, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Motor vehicle instrument panel. 3,451,500, 6-24-69, Cl. 180-90.
Porsche, Ferdinand Anton Ernst; and Eyb, Wolfgang, to Porsche, Dr.-Ing. H.c.f., K.G., Firma. Rear engine drive passenger motor vehicles. 3,460,644, 8-12-69, Cl. 180-56.
Porsche, Jules Downes: *See—*
Bartell, Charles; Milutin, Ivan Cutukovic; Porsche, Jules Downes; and Rolih, Robert John,3,475,196.
Porsche KG, Firma: *See—*
Strohm, Siegfried; and Pfisterer, Erwin, 3,460,406.
Port, Erich, to Bell Telephone Laboratories, Incorporated. System for initially adjusting a signal equalizing device. 3,447,103, 5-27-69, Cl. 333-28.
Port, Erich, to Bell Telephone Laboratories, Incorporated. Controlled impedance analog multiplier circuit in which a differential amplifier output drives a field effect transistor. 3,475,601, 10-28-69, Cl. 235-194.
Port, Eugene B.: *See—*
Howard, Carlton J.; and Port, Eugene B.,3,425,795.
Port, Joe E.: *See—*
Tobin, Richard J.; Barkman, Aaron; and Port, Joe E.,3,471,424.
Port, John R.: *See—*
Myers, Edward F.; and Port, John R.,3,439,345.
Myers, Edward F.; and Port, John R.,3,466,612.
Port, Morton I.; and Schwartz, Bernard L., to Parker Pace Corporation. Woven plastic bags. 3,439,865, 4-22-69, Cl. 229-53.
Port, Morton I.; and Schwartz, Bernard L., to Parker, Pace Corporation. Reinforced laminated plastic materials. 3,445,055, 5-20-69, Cl. 229-53.
Port, Robert J.: *See—*
McCoy, Robert G.; and Port, Robert J.,3,422,292.
Port, William S.; and Ostapiak, Daria M., to United States of America, Agriculture. Method of producing resins from non-terminal epoxy phenolic esters. 3,437,642, 4-8-69, Cl. 260-78.4
Porta-Table Corporation: *See—*
Siegal, Burton L.; and Carlberg, George A., 3,450,177.
Porta-Test Manufacturing Ltd.: *See—*
Willis, Robin Burke; Beattie, David Lloyd George; and Swann, Ferris, 3,481,118.
Portable Balers Limited: *See—*
Corbett, George Lawrence, 3,463,079.
Portable Electric Tool, Inc.: *See—*
Scott, William H., 3,431,647.
Portable Elevator Manufacturing Company: *See—*
Groenke, Merlin A., 3,480,086.
Portage Electric Products, Inc.: *See—*
Wehl, Glenn E.; and Welker, Thomas E., 3,443,259.
Portal, Guy: *See—*
Carpentier, Serge; Delarue, Roger; Francois, Henri; Grand-Clement, Anne-Marie; Portal, Guy; and Soudain, Georges,3,449,136.
Portal, Guy; and Aouizerate, Marc, to Commissariat a l'Energie Atomique. Scintillation observer for a specimen subjected to radiation. 3,443,094, 5-6-69, Cl. 250-71.5
Portal, Marcel: *See—*
Musso, Giuseppe; and Portal, Marcel,3,474,523.
Portal, Pierre; and Trieule, Andre, to Commissariat a l'Energie Atomique. Method of fabrication of finned tubes and device for the application of said method. 3,436,948, 4-8-69, Cl. 72-370.
Portec, Inc.: *See—*
Broling, Keith W., 3,426,996.
Fry, Charles L.; and Fry, Edwin L., 3,467,238.
Gilbert, George T., 3,455,517.

Johnson, Ralph E.; and Van Sant, Arthur D., 3,460,755.
Newton, John S., 3,429,505.
Newton, John S., 3,458,132.
Robards, Preston O., 3,460,401.
Trudeau, Francis E., 3,453,755.
Trudeau, Francis E., 3,457,721.

Portelli, Mario, to Zambon S.p.A. Process for the manufacture of N-(5-nitro-2-furfuryliden)-1- amino-hydantoin. 3,427,306, 2-11-69, Cl. 260-240.

Porteous, Ian K., to Norstel and Templewood Hawksley Ltd. Treatment of sewage and other organic sludges. 3,464,917, 9-2-69, Cl. 210-1.

Porter, Alvin J.; and Merchlewitz, Anthony W. Two-piece nozzle. 3,486,503, 12-30-69, Cl. 128-239.

Porter, Charles A., to Owens-Illinois, Inc. Stopcock. 3,484,077, 12-16-69, Cl. 251-181.

Porter, Charles D.: *See—*
Hammerling, Goldie, 3,455,576.

Porter, Charles D., to Leslie, John B., Mrs. Boat bumper. 3,475,914, 11-4-69, Cl. 61-46.

Porter, Clive H., to Hoe, R., & Co., Inc. Undersize lock-up device for quarter-size plate. 3,452,674, 7-1-69, Cl. 101-378.

Porter, Clive H., to Talcott, James, Inc., mesne. Split key for spider arm. 3,480,223, 11-25-69, Cl. 242-64.

Porter, David D.: *See—*
Arnold, Alson J.; Van Dyke, Burton; Van Dyke, Don; and Porter, David D.,3,448,496.

Porter, Dennis A.; and White, Robert R., to General Electric Company. Load division circuit. 3,480,790, 11-25-69, Cl. 307-57.

Porter, Donald C., to McCaffrey, D. M., and McCaffrey, Patricia Ann. Hydraulic-operated fluid mixing pump. 3,469,594, 9-30-69, Cl. 137-99.

Porter, Donald S. Guitar vibrato device. 3,422,509, 1-21-69, Cl. 84-313.

Porter, Forrest V., to Dresser Industries, Inc. Apparatus and methods for use in well bores. 3,465,356, 9-2-69, Cl. 166-301.

Porter, Gilbert E. Brake arrester. 3,477,232, 11-11-69, Cl. 60-54.5

Porter, Gilbert E., 40% to Tattersfield, William R., and 30% to Reid, Hermine S., and Reid, William B. Backup signal for a vehicle. 3,487,357, 12-30-69, Cl. 340-59.

Porter, Grady T.: *See—*
Michael, Richard W.; and Porter, Grady T.,3,432,684.

Porter, H. K., Company, Inc.: *See—*
Ballard, Robert L., 3,422,532.
Ballard, Robert L.; and Edgell, James E., 3,426,435.
Ballard, Robert L.; Edgell, James E.; Handke, Patrick M.; and Loechner, John T., 3,438,130.
Edgell, James E., 3,443,316.
Edgell, James E., 3,450,367.
Myers, John Leonard, 3,433,886.
Sprigings, Donald G.; and Martin, Gerald E., 3,422,387.

Porter, Jack W. Mobile gun rack. 3,473,673, 10-21-69, Cl. 211-64.

Porter, James A., Jr., to Mandrel Industries, Inc. System for recording a minor number of information channels in a multichannel summing recording system. 3,437,991, 4-8-69, Cl. 340-15.5

Porter, Joe A.; and Waters, Ronald F., to Beckman Instruments, Inc. Electrochemical electrode assembly. 3,434,953, 3-25-69, Cl. 204-195.

Porter, Joe A.; and Waters, Ronald R., to Beckman Instruments, Inc. Electrolytic sensor with improved membrane support. 3,445,369, 5-20-69, Cl. 204-195.

Porter, Joe A.: *See—*
Hauk, Peter; and Porter, Joe A.,3,454,485.

Porter, John A., to United States of America, Atomic Energy Commission. Process for depleting ^{17}O and ^{18}O in $^{238}PuO_2$. 3,420,640, 1-7-69, Cl. 23-344.

Porter, John Howard: *See—*
Moore, Arthur Ivan Walter; Porter, John Howard; Middle, George Henry; and Vearncombe, Richard Frank,3,464,098.

Porter, John Norman: *See—*
Martin, John Henry; Porter, John Norman; and Mitscher, Lester Allen,3,452,136.

Porter, Joseph Frank: *See—*
Robinson, James W.; and Porter, Joseph Frank,3,448,531.

Porter, Kenneth, to Imperial Chemical Industries Limited. Polyester preparation. 3,480,587, 11-25-69, Cl. 260-47.

Porter, Lawrence Christie, to Upjohn Company, The. Method and apparatus for continuously casting elongated foam-cored laminates. 3,429,956, 2-25-69, Cl. 264-47.

Porter, Lawrence C.: *See—*
Krizak, Eugene J.; Porter, Lawrence C.; and Stroud, Richard M.,3,482,822.

Porter, Lee M., to Shell Oil Company. Interpolymers of vinyl arenes and certain block copolymers and process for their preparation. 3,485,894, 12-23-69, Cl. 260-880.

Porter, Neil C. Erectable display sign. 3,429,546, 2-25-69, Cl. 248-486.

Porter, Oswald M.: *See—*
Dix, Willard A.; and Porter, Oswald M.,3,441,969.

Porter, Philip D. Method and apparatus for regulating temperature. 3,451,027, 6-17-69, Cl. 337-342.

Porter, Philip S., to Bakelite Xylonite Limited. Bonding shaped structures for artificial plastics. 3,468,736, 9-23-69, Cl. 156-273.

Porter, Richard E., to Abex Corporation. Assembly balancer. 3,443,440, 5-13-69, Cl. 73-462.

Porter, Robert J., to Gorman-Rupp Company, The. Shaft seals. 3,447,810, 6-3-69, Cl. 277-85.

Porter, Samuel, Jr., to PPG Industries, Inc. Aldehyde modified unsaturated carboxylic acid amide interpolymer/cellulose acetate butyrate resinous compositions. 3,422,042, 1-14-69, Cl. 260-15.

Porter, Stephen L.; Auville, Calvin; and Winch, Allen R., to Celanese Corporation. Warp knit fabric. 3,430,465, 3-4-69, Cl. 66-193.

Porter, Wellington W. Asparagus harvester. 3,472,009, 10-14-69, Cl. 56-327.

Porter, William F., to United States Gypsum Company. Method and apparatus for distributing molten material onto a spinner surface. 3,484,222, 12-16-69, Cl. 65-2.

Porterfield, Cecil P., to Elox Inc., mesne. Machining power supply for electrical discharge machining. 3,485,987, 12-23-69, Cl. 219-69.

Porterfield, Cecil P.; and Adams, Graham R., to Park-Ohio Industries, Inc. Device for controlling the average output power of a silicon controlled rectifier inverter for induction heating uses. 3,475,674, 10-28-69, Cl. 321-45.

Porterfield, Jay G.; and Batchelder, David G., to Oklahoma State University of Agriculture & Applied Science. Therma l defoliator. 3,442,262, 5-6-69, Cl. 126-271.2

Portes, Pierre J. H. L.; Richerd, Jacques; and Mas, Robert, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Elimination of carbon traces contained in titanium by the addition of aluminum chloride. 3,437,565, 4-8-69, Cl. 203-29.

Portescap, Le Porte-Echappement Universel S.A.: *See—*
Marti, Fritz, 3,428,879.
Marti, Fritz, 3,433,093.
Marti, Fritz, 3,448,304.
Marti, Fritz, 3,451,212.
Marti, Fritz, 3,478,509.
Marti, Fritz, 3,478,510.

Porth, Erwin, to Mathias Bauerle Gesellschaft mit beschrankter Haftung. Relating to devices for single sheet feeding of paper. 3,460,826, 8-12-69, Cl. 271-37.

Porth, Erwin, to Mathias Bauerle Gesellschaft mit beschrankter Haftung. Roll bearing arrangements for use in paper- processing machines, in particular folding machines. 3,464,691, 9-2-69, Cl. 271-51.

Porth, Erwin, to Mathias Bauerle Gesellschaft mit Beschrankter Haftung. Upsetting folding machines which have a folding pocket. 3,481,596, 12-2-69, Cl. 270-68.

Porth, Horst: *See—*
Anders, Walter; Strakosch, Hans; Porth, Horst; and Bethge, Hartmut,3,469,302.

Portnoff, Joel B.: *See—*
Bollinger, Frederick W.; Portnoff, Joel B.; and Davidson, Alan J.,3,482,015.

Portnoy, Bernard A. Ligatures or reed-holders for single-reed musical wind instruments. 3,433,113, 3-18-69, Cl. 84-383.

Porto, Sergio P. S.: *See—*
Damen, Theodoor C.; Leite, Rogerio C. C.; and Porto, Sergio P. S.,3,434,779.
Pearson, Arthur D.; Peterson, George E.; and Porto, Sergio P. S.,3,462,707.

Portolani, Augusto: *See—*
Bucci, Giovanni; Simonazzi, Tonino; Ballini, Giuliano; and Portolani, Augusto,3,477,985.

Portolani, Augusto; Di Giulio, Enzo; and Milano, Mario, to Montecatini Edison S.p.A. Method for bonding natural or synthetic textile fibers to olefin copolymers. 3,427,183, 2-11-69, Cl. 117-76.

Ports, David W.: *See—*
Kuhns, Donald C.; and Ports, David W.,3,451,122.

Porttharst, John E., Jr. Automatic control system for vapor compression distilling unit. 3,471,373, 10-7-69, Cl. 202-181.

Portz, William H., to Stanray Corporation. Composite structural member with nailing means. 3,420,025, 1-7-69, Cl. 52-377.

Posa-Cut Corporation: *See—*
Kopy, Alfred A., 3,436,799.
Miller, Floyd E., 3,455,002.

Posch, Heinz. Injection moulding apparatus. 3,457,606, 7-29-69, Cl. 25-30.

Poschel, Alfred B. Photo-engraving apparatus for printing cylinders. 3,439,984, 4-22-69, Cl. 355-85.

Poschenrieder, Werner F.; and Schlichte, Max, to Siemens Aktiengesellschaft. Shift register. 3,471,711, 10-7-69, Cl. 307-112.

Posego, John J., to PPG Industries, Inc. Barium carbonate production. 3,467,494, 9-16-69, Cl. 23-66.

Posen, Boris S.: *See—*
Baker, Thomas R.; Hoyrup, Sigurd J.; and Posen, Boris S.,3,452,855.

Posey, Bob, Jr.: *See—*
Young, Warren L.; and Posey, Bob, Jr.,3,454,544.

Posey, John T. Restraining belt. 3,437,089, 4-8-69, Cl. 128-134.

Posey, John T. Safety harness. 3,466,090, 9-9-69, Cl. 297-389.

Posey, Paul D., to Crane Plastics, Inc. Integral flashing strip having relatively rigid and flexible sections. 3,442,055, 5-6-69, Cl. 52-62.
Posey, Robert P.; and Faw, Price C., to Stone Manufacturing Co., Inc. Apparatus and method for manipulating narrow elastic fabric. 3,443,532, 5-13-69, Cl. 112-2.
Posey, Robert P.; and Faw, Price C., to Stone Manufacturing Co., Inc. Garment handling device for automatically performing spaced successive sewing operations. 3,443,533, 5-13-69, Cl. 112-2.
Posh, Raymnd C., to Lear, Siegler, Inc. Linear actuator. 3,449,971, 6-17-69, Cl. 74-89.15
Posh, Raymond C., to Lear Siegler Inc. Adjustable seat assembly. 3,460,793, 8-12-69, Cl. 248-394.
Posh, Raymond C.: *See—*
Homier, Robert I.; Posh, Raymond C.; and Downs, William T.,3,471,198.
Poshkus, Algirdas C.: *See—*
Herweh, John E.; and Poshkus, Algirdas C.,3,423,485.
Posingies, Walter M., to Honeywell Inc. Fluid apparatus. 3,443,573, 5-13-69, Cl. 137-81.5
Posingies, Walter M., to Honeywell Inc. Fluid apparatus. 3,443,574, 5-13-69, Cl. 137-81.5
Posingies, Walter M., to Honeywell Inc. Control apparatus. 3,452,767, 7-1-69, Cl. 137-81.5
Positive Safety Manufacturing Company, The: *See—*
Grundy, Lawrence F., 3,487,182.
Poska, Forrest L.: *See—*
Hays, George E.; and Poska, Forrest L.,3,445,990.
Posnack, Emanuel R.: *See—*
Kane, Frank A., Jr., 3,446,195.
Posnansky, Hernan A.: *See—*
Sherman, Robert; Babic, George M.; and Posnansky, Hernan A.,3,464,319.
Posner, Adolph; and Inglima, Richard. Disposable tonometers. 3,443,421, 5-13-69, Cl. 73-80.
Posner, Howard Larry. Cleansing structure. 3,428,405, 2-18-69, Cl. 401-201.
Pospisil, Frantisek: *See—*
Boucek, Miroslav; Pospisil, Frantisek; Elias, Jiri; Tyl, Miloslav; and Mikulecky, Karel,3,462,936.
Pospisil, Frantisek; and Elias, Jiri, to Vyzkumny Ustav Bavlnarsky. Bobbin changing device. 3,429,514, 2-25-69, Cl. 242-18.
Pospisil, Frantisek; and Elias, Jiri, to Vyzkumny Ustav Bavlnarsky. Clamping device for bobbins and the like. 3,433,433, 3-18-69, Cl. 242-129.51
Pospisil, Jaroslav; and Hubacek, Vaclav, to CKD Praha, oborovy podnik. Method for inspecting liners and shells of heating devices and apparatus for performing the method. 3,479,882, 11-25-69, Cl. 73-432.
Poss, Richard F: *See—*
Young, David W.; and Poss, Richard F,3,440,187.
Possati, Mario. Device for indicating the value of a magnitude such as an electric signal on a visible scale or dial. 3,480,861, 11-25-69, Cl. 324-99.
Posse, Rolf-Fred: *See—*
Himmelmann, Wolfgang; Moll, Franz; Posse, Rolf-Fred; Riebel, Alexander; and Ulrich, Hans,3,441,412.
Saleck, Wilhelm; Lassig, Wolfgang; and Posse, Rolf-Fred,3,432,304.
Posselt, Klaus: *See—*
Thiele, Kurt; and Posselt, Klaus,3,426,034.
Possis Machine Corporation: *See—*
Dammar, Raymon H., 3,474,515.
Mommsen, Gordon V.; and Dammar, Raymon H., 3,448,311.
Mommsen, Gordon V., 3,465,714.
Posso, Pierre A. L. Box for storing a spool of tape or film. 3,432,066, 3-11-69, Cl. 220-46.
Posso, Pierre A. L. Tape or film spool. 3,438,592, 4-15-69, Cl. 242-71.8
Posso, Pierre A. L. Locking device for a box adapted to contain a spool of material. 3,451,541, 6-24-69, Cl. 206-52.
Posso, Pierre A.L. Film spool box. 3,473,649, 10-21-69, Cl. 206-52.
Post, Daniel: *See—*
Zandman, Felix; and Post, Daniel,3,445,168.
Post, David C. Fastener device. 3,440,590, 4-22-69, Cl. 339-14.
Post, Frank E., to Weston Instruments, Inc. Time synchronizing a transfer function analyzer with recorded testing point signals. 3,453,534, 7-1-69, Cl. 324-57.
Post, Frank E.; and Power, William A., to Weston Instruments, Inc. Stable sweep oscillator. 3,422,372, 1-14-69, Cl. 331-178.
Post, Gerald: *See—*
LiDonnici, Kenneth Michael; and Post, Gerald,3,456,845.
Post, Richard F., to Aircraft Radio Corporation. Mechanical suppressor for jittery shaft. 3,436,967, 4-8-69, Cl. 73-430.
Post, Udo: *See—*
Jellinek, Karl; and Post, Udo,3,425,961.
Post, Willem Pieter. Container closure assembly. 3,443,718, 5-13-69, Cl. 220-40.
Postal Church Service, Inc.: *See—*
Probst, John S., Jr., 3,482,765.
Postema, James R., to Universal Electric Company. Laminated motor stator with formed coils and shaded poles and method of making. 3,440,460, 4-22-69, Cl. 310-42.
Poster Products Inc.: *See—*
Madey, Marion J., 3,468,592.
Posternak, Mikhail Ilich: *See—*
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Samcljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich,3,457,462.
Postlethwait, Columbus E. Rope clamp. 3,437,178, 4-8-69, Cl. 188-65.2
Postlewaite, William R., to Chevron Research Company. Coupling devices for use in offshore well work. 3,451,699, 6-24-69, Cl. 287-87.
Postma, Arlin K., to United States of America, Atomic Energy Commission. Elutriator. 3,482,692, 12-9-69, Cl. 209-156.
Postma, Robert W. Dual range pressure sensor. 3,484,732, 12-16-69, Cl. 338-4.
Postmaster General, Her Majesty's:*See—*
Chapman, Keith James; and Cosier, James Edwin Henry, 3,456,838.
Copping, Geoffrey Percy; and Whittington, Kenneth William Herbert, 3,442,208.
Crank, Geoffrey James; and Eastwood, Geoffrey Wallwork, 3,452,343.
Jarvis, John Roy, 3,453,594.
Lund, Alfred Ernest, 3,455,081.
Rigby, Donald Frank, 3,484,559.
Whittington, Kenneth William Herbert, 3,468,531.
Postmes, Antonius Josephus Marie Francois; and Wennekes, Cornelis Maria. Multi-storey garage with a helical elevator. 3,474,918, 10-28-69, Cl. 214-16.1
Postnov, Evgeny Akimovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Poston, Melvin H.: *See—*
Wood, William H.; and Poston, Melvin H.,3,443,915.
Postorino, Mario, to Scamberti, Gennaro, Jr. Method for manufacturing soldering iron tips. 3,429,024, 2-25-69, Cl. 29-417.
Posvic, Harvey W.: *See—*
Moore, Carl E.; Cassaretto, Frank P.; McLafferty, John J.; and Posvic, Harvey W.,3,468,959.
Pot, Hendrik; and Van Baardewijk, Adam Pieter Hendrik, to Koninklijke Maatschappij Tot het Uitvoeren van Openbare Werken Adriaan Volker N.V., and N.V. Industriele Handels Combinatie Holland. Process for filling the hold of a ship with sand. 3,460,692, 8-12-69, Cl. 214-152.
Pot, Jan, to U.S. Philips Corporation, mesne: Method of manufacturing β-ionone. 3,475,764, 10-28-69, Cl. 260-587.
Potain, Faustin, to Etablissements F. Potain, La Clayette. Lifting device for a telescopic mast. 3,464,169, 9-2-69, Cl. 52-115.
Potash, Norman, to United States of America, Army. Quick disconnect coupling and valve combination. 3,486,730, 12-30-69, Cl. 251-149.7
Potasse & Engrais Chimiques: *See—*
Quanquin, Bernard; Le Clerc, Georges Marie; and Pierre, Jean-Louis, 3,475,195.
Trimbach, Honore; and Dumont, Pierre, 3,431,098.
Potdevin Machine Co.: *See—*
Miller, Alfred G.; and LoDolce, Samuel M., 3,468,741.
Poteate, Wilmer B.; and Weygandt, Peter C., to General Electric Company. Inside-out motion damper. 3,423,614, 1-21-69, Cl. 310-93.
Potgieter, Hendrik Stoute. Earth moving implement having plural scoops. 3,483,644, 12-16-69, Cl. 37-127.
Poth, Leonhard, to Linde Aktiengesellschaft. Method of and assembly for the joining of elements of different materials. 3,479,730, 11-25-69, Cl. 29-472.1
Potlatch Forests, Inc.: *See—*
Hayes, Leonard L., 3,455,351.
Hayes, Leonard L., 3,480,052.
Keller, Harold A.; and Seay, Dwight G., 3,463,483.
McKean, Herbert B., 3,462,907.
Poole, Royce, 3,463,299.
Shelton, Norman Thomas; Keller, Harold A.; and Seay, Dwight G., 3,461,932.
Shelton, Norman Thomas, 3,463,295.
Talbott, John W., 3,477,485.
Poto, Richard O.: *See—*
Smithyman, Charles, 3,458,010.

Potocnik, Antone, to TRW Inc. Multiple fluid controlling shear valve. 3,464,633, 9-2-69, Cl. 239-425.
Potop, Petre; and Brandus, Liviu, to Ministerul Industriei Chimice. Process for the separation of a gas dissolved in a liquid. 3,477,205, 11-11-69, Cl. 55-53.
Potop, Petre: *See—*
Popovici, Nicolae; Potop, Petre; and Brandus, Liviu,3,421,848.
Potrafke, Earl M., to Du Pont de Nemours, E. I., and Company. Chemical metalling process. 3,438,805, 4-15-69, Cl. 117-130.
Potrzuski, Stanley G. Field specimen microscope. 3,450,458, 6-17-69, Cl. 350-86.
Potter, Bronson M. Alerting device having oscillations of negative resistance circuit controlled by mechanical resonance of transducer. 3,447,151, 5-27-69, Cl. 340-384.
Potter, Charles E.; and Chamberlain, Paul E., to Illinois Adhesive Products Company. Method of binding books. 3,423,107, 1-21-69, Cl. 281-21.
Potter, Douglas E.: *See—*
Boyes, David W.; and Potter, Douglas E.,3,444,120.
Potter, Frederick Milton, to Bendix Corporation, The. Oil-cooled generators. 3,440,461, 4-22-69, Cl. 310-54.
Potter, Frederick Milton, to Bendix Corporation, The. Oil cooled generator. 3,480,810, 11-25-69, Cl. 310-54.
Potter, George H.; Whitworth, Clyde J., Jr.; and Zutty, Nathan L., to Union Carbide Corporation. Filled ester-containing polymers. 3,485,790, 12-23-69, Cl. 260-41.
Potter Instrument Company, Inc.: *See—*
Bond, Joseph N., 3,464,180.
Brown, George C.; and Klang, Daniel M., 3,433,426.
Brown, George C.; and Moritz, Frederick G., 3,433,427.
Brown, George C.; Klang, Daniel M.; and Moritz, Frederick G., 3,471,073.
Fieldgate, Ivan O.; and Livote, Nicholas A., 3,454,204.
Foley, Thomas P., 3,442,125.
Foley, Thomas P., 3,483,285.
Gabor, Andrew, 3,426,336.
Gabor, Andrew, 3,427,605.
Gabor, Andrew, 3,471,103.
Kobel, Joseph A., 3,464,642.
Metzger, Louis G., 3,455,492.
Metzger, Louis G.; and Poumakis, Eleuthere, 3,465,241.
Moritz, Frederick G., 3,439,246.
Pandolfi, Richard A., 3,453,954.
Potter, John T., 3,434,218.
Potter, John T.; Foley, Thomas P.; and Antonucci, Carmine J., 3,467,234.
Poumakis, Eleuthere, 3,453,612.
Poumakis, Eleuthere; and Gabor, Andrew, 3,465,128.
Poumakis, Eleuthere, 3,483,539.
Poumakis, Eleuthers, 3,467,955.
Reisfeld, Frederick, 3,425,613.
Reisfeld, Frederick, 3,465,321.
Schoeneman, Robert E., 3,465,349.
Schoeneman, Rogert E., 3,454,930.
Schwartz, Harold S., 3,435,299.
Schwartz, Harold S., 3,443,514.
Potter, John J., Jr.: *See—*
Hamel, William J.; and Potter, John J., Jr.,3,460,721.
Potter, John Reginald: *See—*
King, Peter Patrick; and Potter, John Reginald,3,458,289.
Potter, John T., to Potter Instrument Company, Inc. Coordinate measuring machine. 3,434,218, 3-25-69, Cl. 33-189.
Potter, John T.; Foley, Thomas P.; and Antonucci, Carmine J., to Potter Instrument Company, Inc. Drive means for record receiving web and control web in printing machines. 3,467,234, 9-16-69, Cl. 197-133.
Potter, Macy; and Strogis, William J., to International Business Machines Corporation. Water white rosin flux in benzyl alcohol solution. 3,478,414, 11-18-69, Cl. 29-495.
Potter, Mardell K. Fishing sinker. 3,466,788, 9-16-69, Cl. 43-44.96
Potter, Nelson H.: *See—*
Ford, Floyd E.; Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,470,441.
Ford, Floyd E.; Liwski, Piotr P. M.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,447,059.
Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,426,263.
Potter, Ralph M.: *See—*
Blank, John M.; and Potter, Ralph M.,3,458,779.
Potter, Richard R., to United States of America, Navy. Pulse sensitive electro-explosive device. 3,420,174, 1-7-69, Cl. 102-28.
Potter, Roderick B., to Allis-Chalmers Manufacturing Company. Torque limiting safety device. 3,472,046, 10-14-69, Cl. 64-28.
Potter, Rossiter R.: *See—*
Kinley, John C.; Kinley, Myron M.; Anderson, Clifford E.; and Potter, Rossiter R.,3,447,604.
Potter-Roemer, Inc.: *See—*
Svenson, Bert N., 3,422,839.
Pottgens, Anton. Switching actuator for a concrete vibrating tool. 3,466,014, 9-9-69, Cl. 259-1.
Pottiez, Frantz Louis Charles, Meurop Societe Anonyme. Process and extruded elements for industrial manufacturing of furniture, furniture components and similar constructions. 3,435,575, 4-1-69, Cl. 52-282.
Pottinger, Eugene A.: *See—*
Bochan, John; and Pottinger, Eugene A.,3,481,163.
Pottinger, George C.: *See—*
MacKenzie, Alexander K.; MacKenzie, Lloyd D.; and Pottinger, George C.,3,467,400.
Potts, Bill L.: *See—*
Hallauer, William J.; and Potts, Bill L.,3,431,614.
Potts, Ernest L., to Brown, Cicero C. Flexible coupling. 3,479,067, 11-18-69, Cl. 285-261.
Potts, Horton R.; and Speicher, Charles A., to International Business Machines Corporation. Method of making semiconductors by laser induced diffusion. 3,420,719, 1-7-69, Cl. 148-188.
Potts, James E.; Ashcraft, Arnold C., Jr.; and Wise, Edgar W., to Union Carbide Corporation. Saturated hydrocarbon prepolymer and reaction products thereof. 3,472,826, 10-14-69, Cl. 260-88.2
Potts, Matthew, to Lucas, Joseph, (Industries) Limited. Vane type pumps. 3,457,872, 7-29-69, Cl. 103-144.
Potts, William F., to Liberty Combustion Corporation. Fluid fuel igniter control system. 3,425,780, 2-4-69, Cl. 431-68.
Potts, William F.; and Duval, Francois, to Liberty Combustion Corporation. Control system for fluid fuel burners. 3,447,880, 6-3-69, Cl. 431-27.
Potts, William F.; and Duval, Francois, to Liberty Combustion Corporation. Spark detector. 3,470,386, 9-30-69, Cl. 307-218.
Potzick, Anthony J., to Mosler Safe Company, The. Combination lock with cam-operated tumblers and sequentially engageable tumbler stops. 3,436,941, 4-8-69, Cl. 70-311.
Potzl, Ernst, to Feinkost, H. W. Appel, A.G. Process for the preparation of a dry food product concentrate in lumps. 3,468,675, 9-23-69, Cl. 99-199.
Potzl, Friedrich, to U.S. Philips Corporation, mesne. Contact cooling and mounting device for a discharge tube. 3,476,177, 11-4-69, Cl. 165-80.
Potzsch, Wolfgang R., to Case, J. I., Company. Forage harvester having lifting device. 3,425,195, 2-4-69, Cl. 56-23.
Pou, Dudley M., to Light & Power Utilities Corp. Ballast mounting. 3,428,737, 2-18-69, Cl. 174-52.
Pouderoux, Pierre, to Commissariat a l'Energie Atomique. Heat exchanger. 3,428,119, 2-18-69, Cl. 165-154.
Pouderoux, Pierre, to Societe Stein et Roubaix. Method of power generation and thermal power plant for the application of said method. 3,434,924, 3-25-69, Cl. 176-20.
Pouget, Joseph, to Droit et Pharmacie. Mephenesin acetylsalicylate. 3,461,152, 8-12-69, Cl. 260-474.
Pouget, Robert. Wagons for transporting and positioning railway sleepers. 3,473,482, 10-21-69, Cl. 104-6.
Pouilloux, Jacques, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes. Machine for cutting sheet materials. 3,463,040, 8-26-69, Cl. 83-374.
Pouilloux, Jacques; and Manry, Andre, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes. Pneumatic tyres. 3,441,074, 4-29-69, Cl. 152-361.
Poulakos, Paul J.: *See—*
Jurken, Edward; and Poulakos, Paul J.,3,423,967.
Poulin, Robert A. Ski training and exercising device. 3,461,857, 8-19-69, Cl. 128-25.
Pouliot, Arcade J. Sea locker. 3,441,113, 4-29-69, Cl. 190-51.
Pouliot, Richard D., to Renriden Corporation. Electro-thermal actuator. 3,430,440, 3-4-69, Cl. 60-23.
Pouliquin, Marc: *See—*
Lundy, Claude; and Pouliquin, Marc,3,424,015.
Poulos, Gus L., to North American Rockwell Corporation. Auxiliary spring. 3,434,734, 3-25-69, Cl. 280-124.
Poulos, William E. Indicating device. 3,440,641, 4-22-69, Cl. 340-332.
Poulsen, Find. Tachistoscope. 3,460,274, 8-12-69, Cl. 35-35.
Poulsen, Peder Ulrik. Driven mandrel rotatable about its longitudinal axis for continuous production of tubing a running lengths, preferably glass fibre reinforced plastic tubing. 3,464,879, 9-2-69, Cl. 156-425.
Poulsen, Ulrik. Working procedure of and apparatus for the manufacture of reinforced plastic tubes. 3,431,158, 3-4-69, Cl. 156-173.
Poulson, Barrie K.: *See—*
Griffiths, John H.; and Poulson, Barrie K.,3,435,231.
Poulter, Howard C.: *See—*
Bauhaus, Richard H.; Harrington, Howard W.; and Poulter, Howard C.,3,440,529.
Poulter, Howard C., to Hewlett-Packard Company. Power -saturation spectrometer. 3,482,161, 12-2-69, Cl. 324-58.5
Poulton, Curt A.; and Lovellette, Cline W., to McDonnell Douglas Corporation, mesne. Sonic apparatus for the irradiation of weld fusion zones. 3,487,194, 12-30-69, Cl. 219-128.
Poulton, George W. Variable contact arrangement for electric coils. 3,435,396, 3-25-69, Cl. 336-139.
Poumakis, Eleuthere, to Potter Instrument Company, Inc. Magnetic head selection circuitry. 3,453,612, 7-1-69, Cl. 340-174.1

Poumakis, Eleuthere, to Potter Instrument Company, Inc. Pulse repositioning system. 3,483,539, 12-9-69, Cl. 340-174.1
Poumakis, Eleuthere; and Gabor, Andrew, to Potter Instrument Company, Inc. Read out system in incremental tape transport. 3,465,128, 9-2-69, Cl. 235-61.11
Poumakis, Eleuthere: *See—*
Metzger, Louis G.; and Poumakis, Eleuthere,3,465,241.
Poumakis, Eleuthers, to Potter Instrument Company, Inc. Signal separator for a self-clocking digital magnetic recording. 3,467,955, 9-16-69, Cl. 340-174.1
Pouncy,Hillard W., Jr.: *See—*
Sonia, John; and Pouncy,Hillard W., Jr.,3,419,938.
Pound, James R.; and Ellison, Edward A., to Container Corporation of America. Safety can. 3,463,348, 8-26-69, Cl. 220-54.
Pounder, Alan; and Sykens, William Frederick, to Imperial Chemical Industries Limited. Isolation of oxidation products of cyclohexane. 3,467,701, 9-16-69, Cl. 260-533.
Pounder, Donald Whitworth; and Axe, Roy, to Dunlop Rubber Company Limited. Joined sheets of cross-linked polyurethane and method of joining. 3,483,073, 12-9-69, Cl. 161-190.
Pounders, Jimmie E. Carpet dolly. 3,438,645, 4-15-69, Cl. 280-41.
Poupin, Raymond, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for selectively extracting objects from a continuous stream of objects and especially cigarettes. 3,450,258, 6-17-69, Cl. 209-74.
Poupin, Raymond, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for transferring rod-shaped objects such as cigarettes. 3,472,358, 10-14-69, Cl. 198-44.
Poupin, Raymond: *See—*
Flesselles, Jacques; and Poupin, Raymond,3,470,424.
Poupitch, Ougljesa Jules: *See—*
Moore, Norman H.; and Poupitch, Ougljesa Jules,3,434,592.
Poupitch, Ougljesa Jules, to Illinois Tool Works, Inc. Molding clip and rivet. 3,426,394, 2-11-69, Cl. 24-73.
Poupitch, Ougljesa Jules, to Illinois Tool Works Inc. Clip device. 3,480,136, 11-25-69, Cl. 206-65.
Pourcher, Henri Marie Rene: *See—*
Poincet, Francois Xavier; Pourcher, Henri Marie Rene; and Jourdain, Philippe Andre,3,486,327.
Pourie, De Witt R.: *See—*
Huber, Kenneth J.; Johnston, Jack F.; Nissen, Edward K.; and Pourie, De Witt R.,3,424,613.
Pouwels, Hendrik: *See—*
Van Der Meer, Samuel; and Pouwels, Hendrik,3,439,069.
Van der Meer, Samuel; Kruyt, Willem; and Pouwels, Hendrik,3,482,016.
Poux, Charles A.; and Deutsch, Peter R., to Phillips Petroleum Company. Molding. 3,432,887, 3-18-69, Cl. 18-19.
Pouzar, Edward G. Receptacle moving mixer. 3,430,927, 3-4-69, Cl. 259-88.
Povel, Ludwig, & Co., K.G.: *See—*
Baltzer, Erich; Maydorn, Wolfgang; and Nachilla, Herbert, 3,448,595.
Povenmire, Kenneth M.; and Clanin, Marshall D., to Halmar Electronics, Incorporated. Isolating circuit for making electrical measurements. 3,430,125, 2-25-69, Cl. 321-2.
Povey, Edmund H., to Doble Engineering Company. Automatic guard balance. 3,430,138, 2-25-69, Cl. 324-57.
Povey, Edmund H., to Doble Engineering Company. Apparatus for measuring loss characteristics of di- electric test specimens including an electrical bridge with sine to square wave conversion means and integration means. 3,452,274, 6-24-69, Cl. 324-61.
Povilonis, Edward I.: *See—*
Ligenza, Joseph R.; and Povilonis, Edward I.,3,476,971.
Powalowski, Joseph C.; and Westfall, James E., to Continental Can Company, Inc. Composite closure. 3,460,701, 8-12-69, Cl. 215-10.
Powder Weld International Corporation: *See—*
Wiese, Randolph A., 3,438,579.
Powell, Alfred H.Electrician's tool for removing insulation from wires. 3,431,645, 3-11-69, Cl. 30-90.6
Powell, Clemans A., Jr.: *See—*
Stephens, David G.; and Powell, Clemans A., Jr.,3,473,379.
Powell, David B., to General Electric Company. Compact circuit breaker construction. 3,464,040, 8-26-69, Cl. 335-191.
Powell, Edgar R., to Zimmerman, D. W., Mfg., Inc. Tool balancer. 3,428,298, 2-18-69, Cl. 254-168.
Powell, Edgar R., to Zimmerman, D. W., Mfg., Inc. Controller for pneumatically-operated hoists. 3,457,837, 7-29-69, Cl. 91-447.
Powell, Edward J. Hydropneumatic massaging apparatus. 3,481,328, 12-2-69, Cl. 128-66.
Powell Electric Manufacturing Co.: *See—*
Gerard, Howard L., 3,475,981.
Powell, Eugene L.: *See—*
Van Patten, Eric M.; and Powell, Eugene L.,3,422,089.
Powell, Fred Harding, to Reynolds Metals Company. Metal rolling system. 3,433,047, 3-18-69, Cl. 72-241.
Powell, Frederic D.: *See—*
Gerhardt, Lester A.; Goerner, Johannes G.; and Powell, Frederic D.,3,435,422.
Powell, Jack M. Spare tire and wheel rack. 3,435,971, 4-1-69, Cl. 214-451.
Powell, James R., Jr.; and Danby, Gordon T. Electromagnetic inductive suspension and stabilization system for a ground vehicle. 3,470,828, 10-7-69, Cl. 104-148.
Powell, John Ernest, to Triplex Safety Glass Company Limited. Methods and apparatus for treating glass sheets. 3,430,328, 3-4-69, Cl. 29-407.
Powell, Jonathan S. Pipe coupling and means and method of assembly. 3,477,750, 11-11-69, Cl. 285-363.
Powell, Kenneth D.: *See—*
Scullin, Carl H.; and Powell, Kenneth D.,3,440,565.
Powell, Leonard Cyril: *See—*
Letch, Harry George; and Powell, Leonard Cyril,3,433,966.
Powell, Patrick L., to Stewart-Warner Corporation. Speedometer. 3,422,683, 1-21-69, Cl. 73-496.
Powell, Patrick L., to Stewart-Warner Corporation. Speedometer. 3,422,684, 1-21-69, Cl. 73-496.
Powell, Patrick L., to Stewart-Warner Corporation. Speedometer. 3,422,685, 1-21-69, Cl. 73-519.
Powell, Patrick L., to Stewart-Warner Corporation. Pinion assembly. 3,432,096, 3-11-69, Cl. 235-96.
Powell, Patrick L., to Stewart-Warner Corporation. Speedometer. 3,459,051, 8-5-69, Cl. 73-498.
Powell, Patrick L., to Stewart-Warner Corporation. Instrument bushing. 3,473,060, 10-14-69, Cl. 310-97.
Powell, Patrick L.; and Wargo, Peter, to Stewart-Warner Corporation. Speedometer. 3,452,606, 7-1-69, Cl. 73-496.
Powell, Paul B., Jr.: *See—*
Vaughan, Wayne W.; Wilson, Richard R.; Powell, Paul B., Jr.; and Henry, Lloyd S.,3,447,275.
Powell, Paul R.; and Roper, John. Safety device for internal combustion engine. 3,420,217, 1-7-69, Cl. 123-198.
Powell, Peter, to Water Research Association, The. Gas sampling probes used with apparatus for detecting water leaks. 3,459,036, 8-5-69, Cl. 73-40.5
Powell, Richard J., to Du Pont de Nemours, E. I., and Company. N,N'dialiphatic thiodipropionamides as slip and anti-block additives. 3,474,063, 10-21-69, Cl. 260-30.8
Powell, Robert H., to Shandon Scientific Company Limited. Ring ovens. 3,438,739, 4-15-69, Cl. 23-253.
Powell, Robert P. Clamps. 3,479,000, 11-18-69, Cl. 249-219.
Powell, Ronald C., to International Telephone and Telegraph Corporation. Thermostat dial clicking mechanism. 3,459,262, 8-5-69, Cl. 116-133.
Powell, Ronald Cecil, to International Telephone and Telegraph Corporation. Switch. 3,476,890, 11-4-69, Cl. 200-5.
Powell, Truman W. Tubular braided article. 3,486,409, 12-30-69, Cl. 87-6.
Powell, Vernon Eugene. Bowling ball trap. 3,445,111, 5-20-69, Cl. 273-37.
Powell, Walter F., Jr., to General Electric Company. . 3,482,145, 12-2-69, Cl.
Powell, Walter W., to Anderson, Greenwood & Co. Valve. 3,477,456, 11-11-69, Cl. 137-171.
Powell, William A. Safety shield for cotton carding machines. 3,438,092, 4-15-69, Cl. 19-106.
Powell, William A., to General Electric Company. Cemented chromium carbide containing small additions of phosphorus. 3,445,203, 5-20-69, Cl. 29-182.8
Power, Bernard A.: *See—*
D'Avignon, Jacques; and Power, Bernard A.,3,441,214.
Power Components, Inc.: *See—*
Darnell, Donald E., 3,447,388.
Power, Frank E., to Minnesota Mining and Manufacturing Company, mesne. Apparatus for portable, high concentration gas sterilization. 3,436,173, 4-1-69, Cl. 21-93.
Power Jacks Limited: *See—*
Tridgell, Cyril W., 3,421,750.
Power Jets (Research & Development) Limited: *See—*
Allcock, Alastair William Rodney, 3,447,763.
Allcock, Alastair William Rodney, 3,455,111.
Brown, James, 3,450,334.
Hartley, Edward Langford, 3,443,377.
Restall, James Edward, 3,443,978.
Power, Louis N. Automobile travelling accommodation. 3,451,712, 6-24-69, Cl. 296-23.
Power Reactor & Nuclear Fuel Development Corporation: *See—*
Kakihana, Hidetake; and Gondo, Takuya, 3,485,737.
Power Regulator Company: *See—*
Taylor, Wesley L., 3,478,960.
Power Replacements, Inc.: *See—*
Wheeler, Max R., 3,465,815.
Power, William A.: *See—*
Post, Frank E.; and Power, William A.,3,422,372.
Power-Curve Conveyor Company: *See—*
Dahlem, Billy J., 3,482,462.
Power-Gas Corporation Limited, The: *See—*
Milner, Geoffrey, 3,482,965.

Power-Gas Corporation, The: *See—*
Bamforth, Alfred William, 3,467,699.
Powercon, Inc.: *See—*
Bradley, Robert W., 3,441,802.
Powers & Easton Industries, Inc.: *See—*
Sinnott, David J., 3,466,604.
Powers & Eaton Industries, Inc.: *See—*
Sinnott, David J., 3,433,965.
Sinnott, David J., 3,446,925.
Powers, Daniel A., to Precision Hardware Inc. Automatic latching flush bolt assembly. 3,455,591, 7-15-69, Cl. 292-335.
Powers, Don M.: *See—*
Tomasulo, Robert M.; Anderson, David W.; and Powers, Don M.,3,462,744.
Powers, Donald E.: *See—*
Niedzielski, Robert M.; and Powers, Donald E.,3,444,350.
Powers, Edgar A. Means for power siphoning of liquid from one tank to another, especially for aquariums. 3,485,373, 12-23-69, Cl. 210-169.
Powers, Gene W.: *See—*
Gouw, Lam H.; Voncken, Josef H.; Frielingsdorf, Hans; and Powers, Gene W.,3,480,507.
Powers, Joseph A., to Sperry Rand Corporation. Automatic article-handling system. 3,463,566, 8-26-69, Cl. 312-223.
Powers, Joseph A., to Sperry Rand Corporation. Article handling apparatus. 3,476,265, 11-4-69, Cl. 214-1.
Powers, Joseph A., to Sperry Rand Corporation. Verifier for an article filing system. 3,482,712, 12-9-69, Cl. 214-1.
Powers, Joseph A.: *See—*
Goldammer, Freeland R.; and Powers, Joseph A.,3,473,675.
Powers, Joseph C. Fire alarm. 3,430,219, 2-25-69, Cl. 340-227.1
Powers, Joseph E.; and Sattler, Dennis W., to Kaiser Steel Corporation. Workpiece positioning and securing device. 3,430,525, 3-4-69, Cl. 77-63.
Powers, Joseph E.: *See—*
Grimoldi, Ranoldo H.; and Powers, Joseph E.,3,430,317.
Powers, Martin V., to Sylvania Electric Products, Inc. Digital waveform transition synthesizer. 3,435,350, 3-25-69, Cl. 328-14.
Powers, Milton A. Dental cleaning and gum massaging device. 3,465,751, 9-9-69, Cl. 128-66.
Powers, Milton A. Skim board. 3,481,619, 12-2-69, Cl. 280-12.
Powers Regulator Company, The: *See—*
Taylor, Wesley L.; Priesmeyer, Charles H.; Sauerman, Ernest C.; and Thorburn, David H., 3,472,014.
Thorburn, David H., 3,426,353.
Thorburn, David H., 3,426,782.
Thorburn, David H., 3,465,777.
Powers, Richard C., 10% to Esch, Jere 10% to Farrell, James R. 10% to Farrell, Richard T., and 10% to Moore, James. Internal-combustion engine air filtering apparatus. 3,473,299, 10-21-69, Cl. 55-228.
Powers, Richard L.: *See—*
Cox, Frank T., Jr.; Powers, Richard L.; and Williams, William J.,3,462,986.
Powers, Richard M.: *See—*
Gurinsky, David H.; Powers, Richard M.; and Susskind, Herbert,3,429,774.
Powers, Robert E.: *See—*
Denig, Fred; and Powers, Robert E.,3,480,427.
Powers, Robert Pope, to Firestone Tire & Rubber Company, The. Pneumatic tire. 3,486,547, 12-30-69, Cl. 152-352.
Powers, Thomas J.: *See—*
Budd, William E.; and Powers, Thomas J.,3,470,091.
Powers, William D.: *See—*
Wheeler, John L.; and Powers, William D.,3,472,961.
Powers, William E., Jr.: *See—*
Brogan, Thomas R.; and Powers, William E., Jr.,3,436,918.
Powers, William Richards, to Scott Paper Company. Stretched-set reticulated polyurethane foam and method of making same. 3,425,890, 2-4-69, Cl. 161-46.
Powner, Larry D., to United States of America, Navy. Binary to international Morse code converter. 3,436,754, 4-1-69, Cl. 340-347.
Powrmatic Limited: *See—*
Duncan, Christopher R., 3,469,790.
Poxon, Alan; and Taylor, James W., to Calumet, & Hecla Inc. Apparatus for absorbing sound and vibration in a piping system. 3,420,553, 1-7-69, Cl. 285-49.
Poynter, Donald B. Garment with novelty keywinder. 3,484,103, 12-16-69, Cl. 272-8.
Poynter, Kay Stanley, to Bendix Corporation, The. Tandem pump. 3,426,696, 2-11-69, Cl. 103-169.
Poynter, Kenneth L., to Miami Brick and Stone, Inc., mesne. Molding apparatus. 3,479,705, 11-25-69, Cl. 25-41.
Poyser, John: *See—*
Turner, Edward C.; and Poyser, John,3,463,025.
Poyton, Joseph Roy. Sheet metal building. 3,478,477, 11-18-69, Cl. 52-220.
Pozhalkin, Vladimir Vasilievich: *See—*
Gromov, Anatoly Pavlovich; Lukasheva, Evgenia Nikolaevna; Glazkov, Anatoly Vasilievich; Livshits, Abram Lazarevich; Pozhalkin, Vladimir Vasilievich; Polotsky, Vadim Evgenievich; and Scherbak, Mikhail Venediktovich,3,472,993.
Poznanski, Robert L. Money container with integral holdup alarm. 3,432,842, 3-11-69, Cl. 340-280.
Pozzetti, Mario, to Societa Italiana Telecommunicazioni Siemens S.p.A. Wide band frequency modulated signal detector. 3,428,906, 2-18-69, Cl. 329-163.
Pozzi, Giancarlo: *See—*
Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino,3,422,069.
Pregaglia, Gianfranco; Pozzi, Giancarlo; and Roffia, Paolo,3,422,073.
Pregaglia, Gianfranco; Roffia, Paolo; and Pozzi, Giancarlo,3,468,848.
Pozzi, Luciano, to Aktiebolaget Original-Odhner. Arrangement for controlling an arbitrary number of punches. 3,462,077, 8-19-69, Cl. 234-114.
Pozzolo, Giovanni Battista. System for making uniform the pressure exerted on the beam rubbers of a fringing machine. 3,460,333, 8-12-69, Cl. 57-1.
Pozzolo, Giovanni B. Stretching springs for balancing the pull from fringe to fringe. 3,456,309, 7-22-69, Cl. 28-18.
PPG Industries, Inc.: *See—*
Allen, Edward M.; Dye, Cloyde G.; and Smrdel, Joseph A., 3,477,562.
Atkeson, Florian V., 3,459,523.
Bachman, Joseph A., 3,467,332.
Ballentine, John D., 3,467,818.
Bartlett, Paul D., 3,448,155.
Bateson, Sydney, 3,446,977.
Baugh, Robert A.; Ostrowski, John S.; and Zwack, Robert R., 3,459,690.
Baugh, Robert A.; and Ostrowski, John S., 3,475,512.
Benner, Floyd E., Jr.; and Loehr, Clifford E., 3,467,498.
Bill, Walter E.; and Payet, George L., 3,476,502.
Bissinger, William E.; Strain, Franklin; Stevens, Henry C.; Dial, William R.; and Chisholm, Raymond S., 3,474,072.
Bohl, Lester E.; and Vancamp, Raymond M., 3,449,450.
Bohy, August G., 3,482,953.
Bosso, Joseph F.; and Gerek, Gene, 3,450,303.
Bowser, George, 3,423,488.
Bowser, George H., 3,422,168.
Brane, Ralph M.; and Hart, Donald P., 3,483,109.
Brooks, Marvin V., 3,458,955.
Brooks, Marvin V., 3,478,383.
Carlin, William W., 3,450,609.
Carlin, William W., 3,454,478.
Carlson, Gordon A., 3,459,646.
Chang, Wen-Hsuan, 3,427,325.
Chang, Wen-Hsuan, 3,427,327.
Chang, Wen-Hsuan, 3,429,898.
Chang, Wen-Hsuan, 3,436,404.
Chang, Wen-Hsuan, 3,446,898.
Chang, Wen-Hsuan; and Dowbenko, Rostyslaw, 3,448,017.
Chang, Wen-Hsuan, 3,455,955.
Conaway, William A.; Johnson, Arthur J.; and Smisko, Joe, 3,421,843.
Cortz, Henry V., 3,457,288.
Curtze, Edward W.; Huffman, Charles O.; and Mikus, Clifford A., 3,424,357.
Curtze, Edward W.; Wehner, George O.; and Barsom, John M., 3,454,219.
D'Alelio, Gaetano F., 3,455,801.
D'Alelio, Gaetano F., 3,455,802.
D'Alelio, Gaetano F., 3,470,079.
D'Alelio, Gaetano F., 3,471,386.
D'Alelio, Gaetano F., 3,483,104.
D'Alelio, Gaetano F., 3,483,105.
D'Alelio, Gaetano F., 3,485,732.
D'Alelio, Gaetano F., 3,485,733.
Dahms, James Bowen; and Edmonds, Byron Priestly, 3,433,530.
Darr, Donald E.; Leiser, Roger S.; Loehr, Clifford E.; and Richardson, Kenneth W., 3,423,186.
Darr, Donald E.; Edwards, George Byron; and Loehr, Clifford E., 3,475,124.
Dehn, Frederick C., 3,420,749.
Demarest, Henry M., Jr., 3,450,082.
Dompkowski, Alex G., 3,455,672.
Dowbenko, Rostylaw, 3,422,155.
Dowbenko, Rostyslaw; and Christenson, Roger M., 3,431,294.
Dowbenko, Rostyslaw, 3,475,483.
Dye, Cloyde G., 3,441,387.
Eilerman, George E.; Sanguigni, John A.; Kolek, Robert L.; Fasnacht, James J.; and McWilliams, Donald E., 3,437,517.
Eilerman, George E., 3,459,615.
Emhiser, Donald E.; and Pecoraro, George A., 3,450,516.
Erikson, Alden J.; and Christenson, Roger M., 3,422,044.
Ernsberger, Fred M., 3,454,386.
Gacesa, Gerald R., 3,441,489.

Galey, William F., 3,432,283.
Gallagher, Raymond G.; Mazzoni, Renato J.; and Dauson, Samuel, 3,466,826.
Gealy, Smith W., 3,437,369.
Gerek, Gene, 3,442,976.
Gerek, Gene; and Buell, Louis K., 3,449,466.
Gerek, Gene, 3,453,984.
Gerhart, Howard L.; Wismer, Marco; and Prucnal, Paul J., 3,442,839.
Gillery, Frank H., 3,457,106.
Gillery, Frank H.; Pressau, Jean P.; and Lewis, Charles W., 3,477,936.
Giovanetti, Albert; and Sanders, Richard F., 3,460,957.
Golightly, James S., 3,453,161.
Golightly, James S., 3,484,226.
Gray, Robert D.; and Mayer, Simon E., 3,472,637.
Gregory, James T.; Robertson, Arthur B.; and Keim, William A., 3,451,966.
Gulotta, Joseph A., 3,432,284.
Gulotta, Joseph A., 3,432,285.
Hart, Donald P.; and Plasynski, Joseph E., 3,448,027.
Helmick, William E.; and Pray, Blaine O., 3,437,599.
Hess, Albert R., 3,441,398.
Horgan, William J., Jr., 3,425,163.
Horgan, William J., Jr., 3,435,579.
Junge, Albert E.; and Chabal, Joseph, 3,421,921.
Junge, Albert E.; and Chabal, Joseph, 3,457,096.
Junge, Albert E., 3,485,646.
Kallenborn, John, 3,433,423.
Killmeyer, Charles W.; and Eilerman, George E., 3,459,585.
Klauss, Howard C.; and Brane, Ralph M., 3,423,346.
Kolek, Robert L.; and Bartrug, Norman G., 3,446,003.
Krause, Walter H., 3,478,938.
Krueger, Robert C., 3,450,563.
Lewis, Charles W., 3,473,863.
Lott, Harry, Jr.; Dietz, Albert; and Darr, Donald E., 3,468,689.
MacKenzie, John Douglas; and Sleighter, George E., 3,485,645.
McConnell, William C.; and Rahn, Henry W., 3,449,108.
Miller, Richard G., 3,457,138.
Misson, George W., 3,477,839.
Morris, John W., 3,477,834.
Ohme, Howard R., 3,470,133.
Ostrowski, John S.; and Baugh, Robert A., 3,459,691.
Parker, Earl E., 3,435,094.
Parker, Earl E., 3,448,066.
Porter, Samuel, Jr., 3,422,042.
Posego, John J., 3,467,494.
Preisman, Louis, 3,426,968.
Pressau, Jean P., 3,464,807.
Prucnal, Paul J.; Wismer, Marco; and Christenson, Roger M., 3,483,273.
Pruncnal, Paul J., 3,467,637.
Rabenold, Ronald R.; and Parker, Earl E., 3,449,276.
Rahn, Henry W.; and Richardson, Kenneth W., 3,475,258.
Richardson, Ronald E., 3,450,517.
Richardson, Ronald E., 3,455,197.
Rinehart, Dale W., 3,459,568.
Rinehart, Dale W., 3,464,880.
Romanick, John F.; and Pruiksma, Arthur B., 3,466,256.
Romanick, John F.; and Pruiksma, Arthur B., 3,475,362.
Ross, Joseph, 3,442,678.
Saunders, Arnold E.; and Kubichan, Robert E., 3,433,611.
Semroc, Charles V., 3,425,974.
Sensi, Jaoh E., 3,462,253.
Settino, Frederick A., 3,443,922.
Seymour, Samuel L., 3,420,652.
Shaw, Hugh E., Jr., 3,484,583.
Shaw, Hugh E., Jr., 3,484,584.
Smith, Clete M., 3,434,881.
Starr, Eugene W.; and Misson, George W., 3,481,724.
Stevens, Henry C., 3,440,284.
Stueber, Curtis C., 3,451,458.
Swaney, Larry R., 3,485,586.
Vanderbilt, Byron M.; and Fasnacht, James J., 3,484,223.
Vrotney, Stephen R.; and Kutchko, John R., 3,449,468.
Wilson, William L.; Lott, Harry, Jr.; and Dietz, Albert, 3,433,594.
Wilson, William L., 3,434,799.
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H., 3,443,897.
Wilson, William L., 3,469,943.
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H., 3,475,123.
Wilson, William L., 3,485,583.
Wimer, William E.; Bowers, Bobby O.; and Neikirk, Gerald R., 3,423,477.
Wismer, Marco; and Peffer, John R., 3,449,272.
Wismer, Marco; Doerge, Herman P.; and Mosso, Paul R., 3,468,822.
Wismer, Marco; and Prucnal, Paul John, 3,484,335.
Yurcheshen, Michael; Levine, Morris; and Brane, Ralph M., 3,449,228.
Zurheide, George B.; and Harvey, Frank E., 3,468,434.
PRA Laboratories, Inc.: *See*—
Holzrichter, Edward Julius, 3,455,857.
PRA Laboratories, Inc. (Paint Research Associates): *See*—
Walton, William Thomas; and Holzrichter, Edward Julius, 3,461,093.
Pracht, Gunter, to Grossmann, C. Eisen,- und Stahlwerk AG. Hydraulically damped actuator for self-closing doors. 3,467,982, 9-23-69, Cl. 16-55.
Practical Manufacturing Company: *See*—
Foster, Stephen C., 3,426,772.
Pradel, Jacques: *See*—
Dieval, Michel; Dupoux, Jean; Joffre, Henri; and Pradel, Jacques,3,448,269.
Prado Laboratories, Inc.: *See*—
Winslow, Nathaniel M., 3,438,245.
Pradon, Jacques. Multidirectional truck. 3,450,062, 6-17-69, Cl. 105-177.
Praeg, Walter F., to National Can Corporation. Rotary welding transformer. 3,430,024, 2-25-69, Cl. 219-63.
Praeger, Donald L.; Martell, Richard M.; and Miller, Sidney N. Head mounted electric squint light. 3,484,155, 12-16-69, Cl. 351-2.
Praetzel, Hans Eberhard; and Jenkner, Herbert, to Chemische Fabrik Kalk G.m.b.H. Polyethers containing phosphorus and alcoholic hydroxy groups and their production. 3,468,983, 9-23-69, Cl. 260-953.
Praetzel, Hans Eberhard; and Jenkner, Herbert, to Chemische Fabrik Kalk G.m.b.H. Self-extinguishing polyolefin compositions. 3,474,067, 10-21-69, Cl. 260-41.
Praetzel, Hans Eberhard; and Jenkner, Herbert, to Chemische Fabrik Kalk G.m.b.H. Self-extinguishing polyurethane mouldings. 3,487,030, 12-30-69, Cl. 260-2.5
Praetzel, Hans Eberhard; Wirth, Ernst-Friedrich; and Jenkner, Herbert, to Chemische Fabrik Kalk G.m.b.H. Self-extinguishing styrene polymer compositions and method of making same. 3,470,116, 9-30-69, Cl. 260-2.5
Prager, Charles H. Adjustable support for tables. 3,455,256, 7-15-69, Cl. 108-116.
Prager, Isaak Aronovich: *See*—
Perelman, Simon Meerovich; Prager, Isaak Aronovich; Tolmachev, Anatoly Filippovich; Klebanov, David Lvovich; and Gastev, Jury Alexandrovich,3,444,376.
Prager, Jay H. Multiple selection control structure. 3,479,898, 11-25-69, Cl. 74-471.
Prager, Julianne H., to Minnesota Mining and Manufacturing Company. Cyclic fluorocarbonates. 3,455,954, 7-15-69, Cl. 260-340.2
Prager, Julianne H.; and Thompson, Phillip G., to Minnesota Mining and Manufacturing Company. Perfluoroalkyl peroxy perfluoroalkyl fluoroxy compounds. 3,420,866, 1-7-69, Cl. 260-453.
Prager, Julianne H.: *See*—
Thompson, Phillip G.; and Prager, Julianne H.,3,442,927.
Prager, Manfred J.; and Horowitz, Hugh H., to Esso Research and Engineering Company. Leakproof electrode. 3,423,246, 1-21-69, Cl. 136-120.
Praglin, Julius; and Kime, Robert C., Jr., to Keithley Instruments, Inc. Operational amplifier. 3,474,347, 10-21-69, Cl. 330-27.
Prahl, Helmut F. Plastic radiation and acoustic barrier compositions containing a thixotropic agent. 3,438,903, 4-15-69, Cl. 252-478.
Prahl, Helmut F.; and Hart, Frederick M., to Nebraska, State of, Department of Agriculture and Inspection of the. Polyurethane resins derived from polyoxyalkylated arylated carbohydrates and method of making the same. 3,466,252, 9-9-69, Cl. 260-2.5
Prahl, Helmut F.: *See*—
Tovey, Henry; Prahl, Helmut F.; and Hart, Frederick M.,3,434,870.
Prahl, Jan, to Teufel, Wilhelm J. Ankle joint for an artificial leg. 3,480,972, 12-2-69, Cl. 3-33.
Prahl, Walter H.: *See*—
Schlichting, Hans L.; Barbopoulos, Anthony D.; and Prahl, Walter H.,3,426,358.
Prahm, Louis: *See*—
LaBarre, Lawrence, 3,427,713.
Prall, John Karel; and Fillmore, John David, to Lever Brothers Company. Apparatus for measuring the flexibility of thin material. 3,440,867, 4-29-69, Cl. 73-67.1
Prance, Stanley R.; and Merica, Franklin E., to General Motors Corporation. Mirror with a partially reflecting thin metal alloy coating on a plastic base. 3,450,465, 6-17-69, Cl. 350-278.
Prange, Raymon A.; and Krasnow, Shelley, to Georator Corporation. Dynamo-electric machine. 3,445,700, 5-20-69, Cl. 310-156.
Prasada, Birendra: *See*—
Mounts, Frank W.; and Prasada, Birendra,3,436,471.
Mounts, Frank W.; and Prasada, Birendra,3,439,753.
Prasnikar, Ralph D. Glass chiller with illuminating means. 3,462,967, 8-26-69, Cl. 62-264.
Prasse, Herbert F., to Ramsey Corporation. Method of making wear resistant piston ring. 3,421,198, 1-14-69, Cl. 29-156.6

Prasse, Herbert F.; and Mayhew, Donald J., to Ramsey Corporation. Compression piston rings. 3,456,952, 7-22-69, Cl. 277-140.
Prasse, Herbert F.; and Mayhew, Donald J., to Ramsey Corporation. Compression piston ring assembly. 3,456,954, 7-22-69, Cl. 277-169.
Prast, Gijsbert: *See—*
Kohler, Jacob Willem Laurens; and Prast, Gijsbert,3,472,037.
Prast, Johannes W.: *See—*
Bates, Martin R.; Prast, Johannes W.; and Scott, William V.,3,440,652.
Prater, John D.: *See—*
Platzke, Ronald N.; and Prater, John D.,3,458,277.
Prater, Klaus: *See—*
Raichle, Karl; Bruhne, Friedrich; Prater, Klaus; Nischk, Gunther; and Andres, Karl-Heinz,3,467,619.
Rudolph, Hans; and Prater, Klaus,3,484,401.
Prater, Merle P.: *See—*
Neufeld, Frederick R.; and Prater, Merle P.,3,484,318.
Prather, Albert E., to Xerox Corporation. Circuit board. 3,485,934, 12-23-69, Cl. 174-68.5
Prats, Louis: *See—*
Houcke, George P.; and Prats, Louis,3,436,479.
Prats, Michael: *See—*
Deans, Harry A.; and Prats, Michael,3,474,863.
Prats, Michael, to Shell Oil Company. Shale oil-producing process. 3,434,757, 3-25-69, Cl. 299-2.
Prats, Michael, to Shell Oil Company. Thermoaugmentation of oil production from subterranean reservoirs. 3,455,392, 7-15-69, Cl. 166-303.
Prats, Michael, to Shell Oil Company. Permeabilizing by acidizing oil shale tuffaceous streaks in and oil recovery therefrom. 3,481,398, 12-2-69, Cl. 166-251.
Prats, Michael; Street, Evan H., Jr.; and Harthorn, Wayne A., to Shell Oil Company. Silica-dissolution prevention in oil recovery. 3,438,443, 4-15-69, Cl. 166-303.
Prats, Michael; and Van Meurs, Pieter, to Shell Oil Company. Method of producing fluidized material from a subterranean formation. 3,455,383, 7-15-69, Cl. 166-254.
Patterson, Maurice M.; and Prats, Michael,3,443,639.
Pratsch, Rudolf, to Siemens Aktiengesellschaft. Arc-extinguishing apparatus for electric switches. 3,423,553, 1-21-69, Cl. 200-148.
Pratt & Whitney, Inc.: *See—*
Fox, Harry W., 3,431,680.
Pryshlak, Alexander, 3,484,944.
Reuteler, Johann F., 3,443,178.
Pratt, Chapin A.: *See—*
Browning, James A.; and Pratt, Chapin A.,3,472,995.
Pratt, David S., to Granger Associates. Plural channel oblique ionosphere sounder system. 3,443,230, 5-6-69, Cl. 325-67.
Pratt, Donald W.; and Hoffman, Charles J. Adjustable boring cutter. 3,455,188, 7-15-69, Cl. 77-58.
Pratt, Geoffrey: *See—*
Bester, Dennis R.; and Pratt, Geoffrey,3,479,461.
Pratt, George C.: *See—*
Michael, Anthony D.; and Pratt, George C.,3,432,293.
Pratt, Gerald J., to Corning Glass Works. Apparatus and method for optical signal processing. 3,421,003, 1-7-69, Cl. 250-199.
Pratt, Harlan K.: *See—*
Yamaguchi, Masatoshi; Howard, Frederick D.; and Pratt, Harlan K.,3,459,032.
Pratt, Harold A. Rotary steam engine. 3,452,643, 7-1-69, Cl. 91-56.
Pratt, Henry, Company: *See—*
Fawkes, Donald G., 3,447,781.
Fawkes, Donald G., 3,459,058.
Fawkes, Donald G., 3,475,007.
Fawkes, Donald G., 3,480,254.
Fenster, Abraham S., 3,452,766.
Pratt, Herbert Thomas, to Du Pont de Nemours, E. I., and Company. Method for screen printing pile structures. 3,434,793, 3-25-69, Cl. 8-62.
Pratt, Ivor: *See—*
Borovicka, David A.; Reich, William E.; and Pratt, Ivor,3,475,366.
Mabrey, David W.; Pratt, Ivor; Oser, William E.; and Hahn, Kenneth G.,3,453,345.
Pratt, James S. Measuring device for safety distances between moving vehicles. 3,434,214, 3-25-69, Cl. 33-64.
Pratt, John N., to Space Conditioning, Inc. Blower and aspirator tube assembly. 3,442,092, 5-6-69, Cl. 62-279.
Pratt, John Norman, to RCA Corporation. Keyed burst separator. 3,454,709, 7-8-69, Cl. 178-5.4
Pratt, Leonard C.; and Pierce, Robert M., to Millers Falls Company. Armature. 3,471,731, 10-7-69, Cl. 310-234.
Pratt, Leonard C.; Provos, John R., Jr.; and De Carteret, James Alfred, to Millers Falls Company. Reversing mechanism for electric motors. 3,440,465, 4-22-69, Cl. 310-230.
Pratt Manufacturing Corporation: *See—*
Pratt, Robert H., 3,466,836.
Pratt, Norman F., to Garrett Corporation, The. Gas turbine inlet temperature measuring system. 3,483,750, 12-16-69, Cl. 73-346.
Pratt Percision Hydraulics Limited: *See—*
Jackson, Joseph F., 3,462,667.
Pratt, Philip R., 50% to Hoyland, Alyson Skipp, d/b/a Ashland Company, The. Corsage pin construction. 3,460,206, 8-12-69, Cl. 24-6.
Pratt, Ralph C.: *See—*
Litant, Irving; Pratt, Ralph C.; and Allen, Gerald L.,3,475,640.
Pratt, Richard J.; and Conboy, Robert J., to Sinclair Research, Inc. Dispersions of insoluble, inorganic solid material in organic media with half-esterified styrene- maleic anhydride copolymers. 3,484,261, 12-16-69, Cl. 106-308.
Pratt, Robert H., to Pratt Manufacturing Corporation. Method of packaging flat articles. 3,466,836, 9-16-69, Cl. 53-28.
Pratt, Robert W. Desk appointment calendar. 3,432,952, 3-18-69, Cl. 40-117.
Pratt, Roy E.; and Hahn, Frederick K., to Texaco Inc. Hydroconversion of hydrocarbons. 3,436,338, 4-1-69, Cl. 208-110.
Pratt, Warren R., to Control Data Corporation. Scanner and resolver combination. 3,423,731, 1-21-69, Cl. 340-147.
Pratt, Warren R., to Control Data Corporation. Balanced line pulse receiver. 3,432,689, 3-11-69, Cl. 307-255.
Pratt, Willard R., to Federal-Mogul Corporation, mesne. Diamond abrasive saw blade. 3,443,343, 5-13-69, Cl. 51-206.4
Pratt, Wilson N.; and Freehauf, Eugene G., to General Dynamics Corporation. Metal extrusion forming apparatus. 3,420,085, 1-7-69, Cl. 72-253.
Pratt, Wilson N.: *See—*
Piper, Thomas E.; and Pratt, Wilson N.,3,464,252.
Pravaz, Marcel H., to Etudes et Fabrications Aeronautiques. Detachable fixing device for a parachute canopy permitting the practically immediate release of said canopy. 3,426,985, 2-11-69, Cl. 244-151.
Pravda, Milton F.; and Levedahl, William J., to Martin-Marietta Corporation. Heat pipe regenerator for gas turbine engines. 3,429,122, 2-25-69, Cl. 60-39.51
Pravda, Milton Frank, to Cleveland Controls, Inc. Fluid actuated switching device. 3,433,910, 3-18-69, Cl. 200-83.
Pravdin, Viktor Sergeevich: *See—*
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.
Butkevich, Vladimir Alexandrovich; Evteev, Dmitry Petrovich; Karpeka, Viktor Alexandrovich; Pravdin, Viktor Sergeevich; and Isjun, Alexandr Kononovich,3,438,425.
Pray, Blaine O.: *See—*
Helmick, William E.; and Pray, Blaine O.,3,437,599.
Pray, Ralph E.; and Mills, Norman T., to Inland Steel Company. Production of high purity Mg Cl_2 from spent HCl pickle liquor. 3,479,135, 11-18-69, Cl. 23-91.
Prazak, Charles J., III; and Seo, Kap Min, to National Video Corporation. Process for producing color television tubes. 3,472,672, 10-14-69, Cl. 117-33.5
PRD Electronics, Inc.: *See—*
Collins, Frank C., 3,423,527.
Collins, Frank C., 3,435,237.
Scully, John K., 3,458,824.
Pre-Cast Concrete Products, Limited: *See—*
Chanlund, Carl Wilmer, 3,453,706.
Preau, Nicole Marie, to Rhone-Poulenc S.A. Pyrrole-2-carboxamido alkylene amidines. 3,432,522, 3-11-69, Cl. 260-326.3
Preaux, Lucien; and Bred, Leo, de Boussois, Glaces. Ornamental glass slab containing flat glass strips. 3,421,968, 1-14-69, Cl. 161-5.
Prebish, Michael J.; and Holt, Harley E., to Singer-General Precision, Inc. Apparatus for sea life locator. 3,466,753, 9-16-69, Cl. 33-1.
Preblich, Joseph G., to Olsen Construction Co. Form clamp. 3,442,482, 5-6-69, Cl. 249-219.
Precht, Walter, to Teledyne, Inc., mesne. Thermoelectric device comprising an oxide base thermoelectric element. 3,458,363, 7-29-69, Cl. 136-238.
Prechter, Karl E., to Domino Sugar Company. Packaging machine. 3,435,584, 4-1-69, Cl. 53-62.
Precise Service, Inc.: *See—*
Gagne, Oscar J., 3,461,749.
Precision Agricultural Machinery Company: *See—*
Tschudy, Jay, Jr., 3,458,952.
Tschudy, Jay, Jr., 3,463,100.
Precision Dynamics Corporation: *See—*
Long, Donald A.; and Mosher, Walter W., Jr., 3,467,246.
Precision Electronic Components Ltd.: *See—*
Ginsberg, Leon, 3,446,085.
Precision Extrusions, Inc.: *See—*
Ziehm, Kurt F., Jr., 3,472,133.
Precision Hardware Inc.: *See—*
Powers, Daniel A., 3,455,591.
Precision Instrument Company: *See—*
Becker, Carl H., 3,474,457.

Precision Metalsmiths, Inc.: *See—*
Miller, Robert R., 3,483,620.
Watts, Claude H.; and Horton, Robert A., 3,424,227.
Watts, Claude H., 3,443,627.
Watts, Claude H.; Shields, Arthur A.; and Krohn, Harvey W., 3,446,266.
Precision Paper Tube Company: *See—*
Thomas, Anthony V., 3,482,490.
Precision Papers, Inc.: *See—*
Preston, Harold, 3,456,580.
Precision Plastics, Inc.: *See—*
de Man, Heiko T., 3,458,866.
Precision Processes (Textiles) Limited: *See—*
Goldberg, Alan August; and Wray, Dennis, 3,459,697.
Precision Produce Specialties, Inc.: *See—*
Roesner, Lawrence C.; and Moen, Lenard E., 3,456,563.
Precision Sampling Corporation: *See—*
Harris, Rano J.; and Harris, Rano J., Jr., 3,474,674.
Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,482,450.
Precision Scientific Company: *See—*
Hammond, Gerald L., 3,468,637.
Lyshkow, Norman A., 3,433,597.
Precision Sheet Metal, Inc.: *See—*
Sellars, Leonard D., 3,444,715.
Precision Specialties, Inc.: *See—*
Baer, John S., 3,425,526.
Baer, John S., 3,465,857.
Precision Systems Company, Inc.: *See—*
Hughes, Daniel C., Jr., 3,483,819.
Pastuszak, Ronald F., 3,441,121.
Precision Universal Joint Corporation: *See—*
Bense, William M., 3,438,135.
Precision Valve Corporation: *See—*
Kutik, Louis F., 3,464,597.
Precision Welder and Flexopress Corporation: *See—*
Bush, Earnest E.; and Williams, Earl J., 3,437,053.
Schueler, Arthur W., 3,424,060.
Precision Winding Company, Inc.: *See—*
Brickner, Joseph L., 3,434,047.
Precision X-ray Company: *See—*
Best, Richard G.; and Medwedeff, Fred M., 3,469,099.
Precismeca S.A.: *See—*
Allendorf, Marcel, 3,430,755.
Allendorf, Marcel, 3,430,756.
Preco, Inc.: *See—*
Erickson, John W., 3,441,757.
Erickson, John W., 3,445,696.
Preco Incorporated: *See—*
Erickson, John W.; Konrad, Marion G.; and McCloud, James, 3,464,369.
Precoul, Michel, to Societe Technique de Recherches Industrielles et Mecaniques. Priming explosive devices. 3,451,339, 6-24-69, Cl. 102-56.
Preece, Kenneth, to Lucas, Joseph, (Industries)Limited. Dynamoelectric machine with end cover secured to salient poles. 3,449,606, 6-10-69, Cl. 310-89.
Preece, Kenneth, to Lucas, Joseph, (Industries) Limited. Method of manufacturing commutators. 3,478,421, 11-18-69, Cl. 29-597.
Preece, Richard E., to Nalco Chemical Company. Precision metal casting molds comprising alumina coated silica and a refractory. 3,445,250, 5-20-69, Cl. 106-38.22
Preferred Growth Capital, Inc.: *See—*
Getchell, Frederick G.; Getchell, James W.; and Trunnell, Harold K., 3,424,356.
Preformed Line Products Company: *See—*
Eucker, Robert A., 3,463,870.
Williams, Harrison L.; and Eucker, Robert A., 3,476,868.
Pregaglia, Gianfranco: *See—*
Natta, Giulio; Mazzanti, Giorgio; Pregaglia, Gianfranco; Valvassori, Alberto; and Sartori, Guido,3,483,173.
Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino,3,422,069.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto, to Montecatini Edison S.p.A. Cobalt hydro-phosphin-carbonyls. 3,453,302, 7-1-69, Cl. 260-439.
Pregaglia, Gianfranco; Castelli, Renato; and Andreetta, Alberto, to Montecatini Edison S.p.A. Process of preparing cobalt hydrocarbonyls. 3,481,961, 12-2-69, Cl. 260-439.
Pregaglia, Gianfranco; Gregorio, Guglielmo; and Conti, Francesco, to Montecatini Edison S.p.A. Process for the condensation of primary alcohols. 3,479,412, 11-18-69, Cl. 260-642.
Pregaglia, Gianfranco; Pozzi, Giancarlo; and Roffia, Paolo, to Montecatini Edison S.p.A. Polyoxymethylenic copolymers from trioxane and cyclic formal. 3,422,073, 1-14-69, Cl. 260-67.
Pregaglia, Gianfranco; Roffia, Paolo; and Pozzi, Giancarlo, to Montecatini Edison S.p.A. Polyoxymethylene copolymers from trioxane and cyclic ketals. 3,468,848, 9-23-69, Cl. 260-67.
Preikschat, Fritz K.; and West, Howard W., to Laucks Laboratories, Inc. Moisture detection with sequentially switched balanced electrode pairs. 3,430,140, 2-25-69, Cl. 324-61.
Preiser, Ralph H.; Goodwin, Clarence J.; Emerson, Frank W.; and Metcalf, Stanley, to General Time Corporation. Hygrometer. 3,460,388, 8-12-69, Cl. 73-337.5
Preisig, Joseph O., to Radio Corporation of America. Television focus voltage supply. 3,432,718, 3-11-69, Cl. 315-22.
Preisman, Louis, to PPG, Industries, Inc. Pyrometer and control of manufacturing processes therewith. 3,426,968, 2-11-69, Cl. 236-15.
Preiss, William A. Electric attachment plug. 3,474,376, 10-21-69, Cl. 339-5.
Preist, Donald H., to Varian Associates. Efficient high power beam tube employing a fly- trap beam collector having a focus electrode structure at the mouth thereof. 3,453,482, 7-1-69, Cl. 315-5.29
Preist, Donald H.; and Talcott, Ruth Carlson, to Varian Associates. R-F window for high power electron tubes. 3,448,413, 6-3-69, Cl. 333-98.
Preli, Francis R.; and Olson, Robert E., to United Aircraft Corporation. Fluid synchronizing system for rotating devices. 3,444,873, 5-20-69, Cl. 137-26.
Preller, Hugh A. Chart drive. 3,452,536, 7-1-69, Cl. 58-28.
Prelog, Vladimir: *See—*
Gaeumann, Ernst; Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst,3,471,476.
Prelowski, Stefan, to Martin-Marietta Corporation. Method and apparatus for cooling and subcooling fluids such as hydrogen. 3,455,117, 7-15-69, Cl. 62-45.
Prem, Lawrence L., to North American Rockwell Corporation. Magnetohydrodynamic generator. 3,478,233, 11-11-69, Cl. 310-11.
Prem, Lawrence L., to North American Rockwell Corporation. Magnetohydrodynamic generation of pulsating electricity. 3,483,404, 12-9-69, Cl. 310-11.
Prem, Lawrence L.; and Wang, Tsih-Chang, to North American Rockwell Corporation. Alternating current magnetohydrodynamic generator. 3,478,234, 11-11-69, Cl. 310-11.
Prem, Lawrence L.; and Wang, Tsih-Chang, to North American Rockwell Corporation. Alternating current magnetohydrodynamic generator. 3,483,405, 12-9-69, Cl. 310-11.
Prematex S.A.: *See—*
Graf, Marcel, 3,455,191.
Premier Drum Company Limited, The: *See—*
Della-Porta, Clifford, 3,482,479.
Premium Iron Ores Limited: *See—*
Cavanagh, Patrick Edgar, 3,446,185.
Premo, Paul M.: *See—*
Hinds, Robert J.; and Premo, Paul M.,3,479,253.
Prena, William F., to Morrell, John & Co., mesne. Vacuum packaging apparatus. 3,444,665, 5-20-69, Cl. 53-112.
Prena, William F., to Morrell, John, & Co., mesne. Safety gate for vacuum packaging apparatus. 3,483,667, 12-16-69, Cl. 53-77.
Prendergast, John R., to Owens-Illinois, Inc. Apparatus for centrifugally casting glass articles. 3,446,611, 5-27-69, Cl. 65-302.
Prener, Jerome S.: *See—*
Knglsey, Jack D.; and Prener, Jerome S.,3,432,769.
Prentice Corporation: *See—*
Elsenheimer, Charles W., 3,484,907.
Prentice, George D., to Klinzing, A. F., Co., Inc. Animal drinking fountain. 3,464,391, 9-2-69, Cl. 119-75.
Prentice, George M., to Westinghouse Air Brake Company. Cross and ground protection for railway switch machines. 3,453,426, 7-1-69, Cl. 246-242.
Prentiss, Augustin M., to Chandler Evans Inc. Fuel system for internal combustion engines. 3,424,140, 1-28-69, Cl. 123-119.
Prentky, Peter I.: *See—*
Black, Robert J.; Thaler, George J.; Prentky, Peter I.; and Cordano, Richard D.,3,426,337.
Prescon Corporation, The: *See—*
Dabney, Eugene E.; Fields, James R.; Gerber, Loris L.; and Newins, Charles E., 3,456,918.
Prescott, Arthur W., to Illinois Tool Works Inc. Drilling screw. 3,463,045, 8-26-69, Cl. 85-41.
Prescott, Basil O.; Wise, Harold L.; and Chesnut, Dwayne A., to Shell Oil Company. Flame ionization detector. 3,451,780, 6-24-69, Cl. 23-254.
Prescott, David B., to Walker Manufacturing Company. Small vehicle lift. 3,463,272, 8-26-69, Cl. 187-8.72
Prescott, Herbert L., to Westinghouse Electric Corporation. Load tap changer systems including protective apparatus for monitoring the operation of the transfer switches. 3,436,646, 4-1-69, Cl. 323-43.5
Prescott, John Fraser: *See—*
Gardner, Cyril; Prescott, John Fraser; and Randal, George Arthur,3,428,690.
Prescott, Kenneth W. Canopy support. 3,486,514, 12-30-69, Cl. 135-5.
Prescott, Leonard E., to General Electric Company. Rotatable image camera utilizing axially aligned image-rotating prism. 3,482,499, 12-9-69, Cl. 95-36.

Prescott, Norma E. Electric stove. 3,440,404, 4-22-69, Cl. 219-432.
Prescott, Norman F.: *See—*
Hose, Alexander V.; and Prescott, Norman F.,3,428,090.
Prescott, Robert E.: *See—*
Kreisel, Ralph R.; Mattke, Charles F.; and Prescott, Robert E.,3,457,376.
Prescott, Thomas C. Geometric puzzle game. 3,475,030, 10-28-69, Cl. 273-156.
Prescott, William A. Whiffle tree boom rotating mechanism for articulated aerial device. 3,474,682, 10-28-69, Cl. 74-89.2
Prescott, William A.; Wacht, Raymond J.; and Stallard, Wayne R., to Chance, A. B., Company, mesne. Mechanism for preventing excessive relative swinging of an articulated aerial device. 3,461,989, 8-19-69, Cl. 182-19.
Prescott, William Benjamin; and Lawrence, Henry C., to American Cyanamid Company. Modified flickering beam spectrophotometer producing digitized output. 3,459,480, 8-5-69, Cl. 356-90.
Prescott, Wilmar Lewis. Calendar. 3,448,537, 6-10-69, Cl. 40-109.
Present, Mortimer T. Sanitary land fill method. 3,466,873, 9-16-69, Cl. 61-35.
Presley, William E.: *See—*
Cook, Gerald L.; and Presley, William E.,3,469,901.
Presnell, Carlton E.; and Zemgals, Guido Z. Ocean current and wave generator. 3,478,444, 11-18-69, Cl. 35-19.
Press, Irving D., to Resistofler Corporation. Reinforced hose. 3,446,248, 5-27-69, Cl. 138-133.
Press, Irving D., to Resistoflex Corporation. Production of P.T.F.E. tubing. 3,480,707, 11-25-69, Cl. 264-209.
Press, Jack J. Process of preferentially modifying stereoregular polyhydrocarbons to improve dyeability. 3,425,969, 2-4-69, Cl. 260-17.
Press, Jack J. Modification of stereoregular polyolefin with hydrophilic copolymers. 3,484,838, 12-16-69, Cl. 260-895.
Press, Jack J.; and Naimer, Jack, to United States of America, Navy. Protective fabric. 3,441,063, 4-29-69, Cl. 139-391.
Pressac Limited: *See—*
Greasley, Eric Arthur, 3,439,312.
Greasley, Eric Arthur, 3,476,928.
Pressau, Jean P.: *See—*
Gillery, Frank H.; Pressau, Jean P.; and Lewis, Charles W.,3,477,936.
Pressau, Jean P., to PPG Industries, Inc. Method for producing surface compression in certain glasses by promoting random surface crystallization. 3,464,807, 9-2-69, Cl. 65-33.
Pressed Steel Fisher Limited: *See—*
Ransome, John Gooch, 3,470,072.
Wallace, John Frederick; Butler, Roger David; and Adkin, Lancelot Alan, 3,461,702.
Presses et Materiels Hydrauliques Morane-Somua: *See—*
Doudet, Michel, 3,465,669.
Pressiat, Robert, to CSF-Compagnie Generale de Telegraphie Sans Fil. Blind flight, approach and landing instruments. 3,486,010, 12-23-69, Cl. 235-150.26
Pressluftwerkzeug und Maschinenbau Premag G.m.b.H.: *See—*
Fehlings, Herbert Joseph, 3,426,648.
Pressman, Sidney, to Ebert Electronics Corporation. Contactless switch. 3,486,036, 12-23-69, Cl. 307-113.
Presson, Donald R. Slurry pump. 3,467,018, 9-16-69, Cl. 103-117.
Presson, Gert Artur; and Sander, Nils Borje Lennart, to Svenska Aktiebolaget Bromsregulator. Railway vehicle brake rigging. 3,430,739, 3-4-69, Cl. 188-202.
Pressure Products Industries, Inc.: *See—*
Wolf, Robert C., 3,454,050.
Pressure Systems, Inc.: *See—*
Beals, John Alden, 3,458,135.
Pressure Technology Corporation: *See—*
Bobrowsky, Alfred; and Stack, Eugene A., 3,482,424.
Presswood, John K.: *See—*
Foster, Walter E.; and Presswood, John K.,3,454,612.
Presti, Anthony J., to Bell Telephone Laboratories, Incorporated. Reduction of distortion in speech signal time compression systems. 3,462,555, 8-19-69, Cl. 179-15.55
Presti, Anthony J., to Bell Telephone Laboratories, Incorporated. Linear signal gain controlled networks. 3,471,700, 10-7-69, Cl. 250-206.
Prestige Photo Products, Inc.: *See—*
Kallenberg, Karl J., 3,460,732.
Prestl, Karl. Friction gear for infinitely-variable regulation. 3,420,114, 1-7-69, Cl. 74-191.
Presto Lock Co., Inc.: *See—*
D'Elia, Anthony N.; and Stolarz, Edward M., 3,430,742.
Feinberg, Irving, 3,434,313.
Gehrie, Charles S., 3,439,515.
Gehrie, Charles S., 3,461,697.
Preston, Anthony: *See—*
Dickinson, George Alfred; and Preston, Anthony,3,433,614.
Preston, Bruce W., to Ford Motor Company, The. Headlamp aiming. 3,467,473, 9-16-69, Cl. 356-121.
Preston, David S.; and Stroh, Richard H., to Eaton Yale & Towne, Inc. Hydraulic control circuit. 3,455,209, 7-15-69, Cl. 91-417.
Preston, Frank S., to United Aircraft Corporation. Doppler resolution of interferometer ambiguities. 3,438,033, 4-8-69, Cl. 343-16.
Preston, Frank S., to United Aircraft Corporation. Wide-angle interferometer radar. 3,454,944, 7-8-69, Cl. 343-16.
Preston, Harold, to Precision Papers, Inc., mesne. Garment cutting table assembly. 3,456,580, 7-22-6, Cl. 100-93.
Preston, Harold, to Silverman, Seymour. Turning apparatus. 3,467,289, 9-16-69, Cl. 223-40.
Preston, Jack, to Monsanto Company. Novel aliphatic-aromatic copolyamides. 3,453,244, 7-1-69, Cl. 260-78.
Preston, Jack, to Monsanto Company. Linear condensation polymers containing carbonamide and heterocyclic linkages. 3,484,407, 12-16-69, Cl. 260-47.
Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Optical correlator modulating light twice in ultrasonic light modulator. 3,457,425, 7-22-69, Cl. 250-229.
Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Optical phase modulation apparatus. 3,463,572, 8-26-69, Cl. 350-161.
Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Optical phase modulator. 3,479,109, 11-18-69, Cl. 350-161.
Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Apparatus for use in phase modulating a beam of light. 3,480,348, 11-25-69, Cl. 350-161.
Preston, Louis, to Miracle Hook Corporation. Sewing hook and bobbin. 3,476,068, 11-4-69, Cl. 112-231.
Preston, Martin. Mechanical torque converter. 3,439,561, 4-22-69, Cl. 74-751.
Preston, Marvin W.; and Ligon, James T., to Firestone Tire & Rubber Company, The. Seat belt buckle. 3,481,009, 12-2-69, Cl. 24-230.
Preston, Norman J., to Esso Research and Engineering Company. Refuelling aircraft. 3,439,700, 4-22-69, Cl. 137-351.
Preston, Pearl M. Packaged disposable lotion filled applicator. 3,463,302, 8-26-69, Cl. 206-46.
Preston, Peter John, to Lancer Machinery Limited. Vehicle jacking systems. 3,436,095, 4-1-69, Cl. 280-150.
Preston, Raymond A.; and Carter, Crawford F., to Chevron Research Company. Novel pinion grease. 3,472,770, 10-14-69, Cl. 252-23.
Preston, Richard T.: *See—*
Zurcher, Raymond W., 3,436,729.
Preston, Stephen: *See—*
Clarke, Frederick; and Preston, Stephen,3,426,659.
Preston, Warren O.: *See—*
Rickard, Donn J.; Holbrook, Franklin K.; Bushman, Ronald C.; Preston, Warren O.; and Gill, Thomas H.,3,448,682.
Prestridge, James C.: *See—*
Chesner, Ramon J.; and Prestridge, James C.,3,441,444.
Preszler, Harold D., to Allis-Chalmers Manufacturing Company. Air supply connection for pyrometer assembly on rotary kiln. 3,472,497, 10-14-69, Cl. 263-33.
Prete, Ernest, Jr., to Tridair Industries, mesne. Snaphook device. 3,439,390, 4-22-69, Cl. 24-201.
Prete, Ralph, to United States of America, Air Force. High temperature electric heater for gases. 3,439,149, 4-15-69, Cl. 219-374.
Preti, Jean Claude, to Societe de Fabrication d'Instruments de Mesure (S.F.I.M. Doppler radars. 3,423,753, 1-21-69, Cl. 343-8.
Preti, Jean Claude, to Societe de Fabrication d'Instruments de Mesure (S.F.I.M.). Apparatus for controlling travelling objects, and more particularly motor vehicles, at intersecting tracks or roads. 3,457,546, 7-22-69, Cl. 340-37.
Pretterhofer, Leopold: *See—*
Hanisch, Emil; Pretterhofer, Leopold; and Neidl, Wilhelm,3,438,533.
Pretty, Frederick A.; and Gibbard, Thomas, to USM Corporation. Cutting press with work feed means. 3,451,299, 6-24-69, Cl. 83-263.
Pretzer, Paul R. Packing method and apparatus. 3,486,290, 12-30-69, Cl. 53-29.
Preud'homme, Jean; and Tchelitcheff, Serge, to Rhone-Poulenc S.A. Spiramycin derivative. 3,472,930, 10-14-69, Cl. 424-121.
Preuss, Albert F.; White, Harry J.; and Clemens, David H., to Rohm & Haas Company. Polyolefinic succinates. 3,448,049, 6-3-69, Cl. 252-51.5
Preuss, Friedrich: *See—*
Koch, Werner; and Preuss, Friedrich,3,477,710.
Preusser, Anton A. H.; and Sipkes, Hendrik, to Verenigde Kunstmestfabrieken Mekog-Albatros N.V. Method and apparatus for carrying out exothermic gas reactions. 3,424,553, 1-28-69, Cl. 23-199.
Preux, Roger. Rotary electric contactors of the point-contact type. 3,423,555, 1-21-69, Cl. 200-153.
Prevallet, David N.: *See—*
Stephens, William T.; and Prevallet, David N.,3,446,020.
Previc, Edward P., to Consolidation Coal Company. Hydrogenation of ortho-phenolic Mannich bases. 3,461,172, 8-12-69, Cl. 260-621.
Previte, Dominick L., to Eaton Yale & Towne Inc. Safety pressure cap. 3,434,621, 3-25-69, Cl. 220-44.

Prevorsek, Dusan C.: *See—*
Lamb, George E. R.; and Prevorsek, Dusan C.,3,457,609.
Prevost, Attilio. Motion picture cutting desk projector device. 3,472,582, 10-14-69, Cl. 352-133.
Prevost, Robert, to Societe Anonyme Heurtey. Needle valves, notably for direct-flow lock- chambers. 3,429,331, 2-25-69, Cl. 137-219.
Prew, Lionel R., to Shell Oil Company. Apparatus for transporting liquefied gases. 3,428,013, 2-18-69, Cl. 114-74.
Prew, Robert H., to Nashua Corporation. Synchronous paper feeding mechanism. 3,451,754, 6-24-69, Cl. 355-73.
Prew, Thomas B., to Stafford Tool and Die Company Limited. Clicking die for cutting sheet materials and method of making said die. 3,459,090, 8-5-69, Cl. 83-652.
Prewett, James Nigel: *See—*
Martin, Robert Edgar; Hasler, Edmond Francis; and Prewett, James Nigel,3,443,438.
Prewitt, Richard H. Rotary wing device. 3,485,466, 12-23-69, Cl. 244-138.
Prewitt, Richard H.; and Schmidt, Volker, said Schmidt assor. to said Prewitt. Scratch strain recorder. 3,430,250, 2-25-69, Cl. 346-7.
Prezewowsky, Klaus: *See—*
Schmidt, Otfried; Prezewowsky, Klaus; and Wiechert, Rudolf,3,470,160.
Priaroggia, Paolo Gazzana, to Pinelli S.p.A. Cooling of oil-filled electrical power cables. 3,485,930, 12-23-69, Cl. 174-15.
Priarone, Paul: *See—*
Miller, C. David; Soodak, Charles; and Priarone, Paul,3,430,864.
Price, Aldon A.: *See—*
Bahr, Karl E.; Griswold, Augustus W.; Price, Aldon A.; and Young, Charles R.,3,460,824.
Price, Alson K.: *See—*
Anello, Louis G.; Sweeney, Richard F.; and Price, Alson K.,3,471,623.
Price, Alson K.; and Sweeney, Richard F., to Allied Chemical Corporation. 1-Hydroxyperfluorocyclo alkyl acetic acid and corresponding chlorides. 3,427,349, 2-11-69, Cl. 260-514.
Price, Bernard F. Pressure control for installation in wells. 3,457,864, 7-29-69, Cl. 103-6.
Price, Billy J., 25% to Foster & Creighton Company. Mobile cantilevered bridge scaffold. 3,456,756, 7-22-69, Cl. 182-63.
Price, Billy Ray; St. Pierre, Richard Ernest; and Lloyd, Neil E., to Celanese Corporation. Non-woven cigarette filter rod. 3,477,445, 11-11-69, Cl. 131-267.
Price, Charles D.: *See—*
Chomitz, Nicholas; Lindsley, John Francis; and Price, Charles D.,3,451,102.
Price, Colin D.: *See—*
Crespin, George T. F.; Roycroft, Donald M.; and Price, Colin D.,3,447,358.
Price, Connor E.: *See—*
Pointer, Paul H.; and Price, Connor E.,3,460,842.
Price, David B., to Westinghouse Electric Corporation. Support for room heater. 3,420,485, 1-7-69, Cl. 248-188.3
Price, David B., to Westinghouse Electric Corporation. Air deflecting means for fans. 3,481,534, 12-2-69, Cl. 230-274.
Price, Donald A.: *See—*
Price, Harold A.; and Price, Donald A.,3,472,498.
Price, Frank B.: *See—*
Dunn, Wendell E.; Lucas, Ned L.; and Price, Frank B.,3,455,176.
Silver, Harold F.; and Price, Frank B.,3,431,839.
Silver, Harold F.; Steele, Clarence R.; and Price, Frank B.,3,443,905.
Price, George Edmond, to Craig & Seeley Limited. Hinge assembly. 3,437,087, 4-8-69, Cl. 126-191.
Price, George E., to Truswood Structures Limited. Wood truss joint. 3,452,502, 7-1-69, Cl. 52-693.
Price, Glenn R., to Stauffer Chemical Company. Bis(hydroxypolyalkoxyalkyl)-N,N dihydroxyalkyl aminomethyl phosphonates. 3,457,333, 7-22-69, Cl. 260-945.
Price, Glenn R., to Stauffer Chemical Company. Phosphorus containing urethane foams. 3,480,594, 11-25-69, Cl. 260-77.5
Price, Glenn R., to Stauffer Chemical Company. Chloro-substituted hydroxypolyalkoxy aminomethylphosphinates. 3,480,699, 11-25-69, Cl. 260-945.
Price, Harold A.; and Price, Donald A., to Gas Processors, Inc. Air pollutant incineration. 3,472,498, 10-14-69, Cl. 263-40.
Price, Harold J.: *See—*
Jones, Robert E., Jr.; and Price, Harold J.,3,431,416.
Price, Harry Preston, Jr.Storage assembly for draftsman's articles. 3,476,259, 11-4-69, Cl. 211-69.8
Price, Herbert K., to Reynolds Metals Company. Method of making strip conductor material. 3,477,126, 11-11-69, Cl. 29-605.
Price, Herbert; and Kesten, Seymour. Adjustable picture frame. 3,465,461, 9-9-69, Cl. 40-155.
Price, Howard; Szilagyi, Bela; and Quinto, Mario, to International Patents & Development Corporation, mesne. Garbage compactor. 3,481,268, 12-2-69, Cl. 100-49.
Price, Jack Richard, to English Electric Company Limited, The. Information transmission system. 3,445,813, 5-20-69, Cl. 340-150.
Price, Jerry L.; and Singleton, Thomas C., to Monsanto Company. Gas sample compositor. 3,429,186, 2-25-69, Cl. 73-421.5
Price, Joel S. Cooking utensil. 3,425,340, 2-4-69, Cl. 99-422.
Price, John A.; and Carlson, Otto K., to FMC Corporation. Lithium amide as a transesterification catalyst. 3,420,803, 1-7-69, Cl. 260-75.
Price, John A.; and Carlson, Otto K., to FMC Corporation. Group IA metal manganities, manganates, and cobaltites as polyester polycondensation catalysts. 3,475,380, 10-28-69, Cl. 260-75.
Price, John A.; and Carter, Mary E., to FMC Corporation. Preparation of polyethylene terephthalate by direct esterification in the presence of a metal citrate as a direct esterification catalytic additive. 3,475,381, 10-28-69, Cl. 260-75.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Salts of ethylene diamine tetraacetic acid as polycondensation catalysts. 3,427,288, 2-11-69, Cl. 260-75.
Price, John A.: *See—*
Carlson, Otto K.; and Price, John A.,3,425,997.
Carter, Mary E.; and Price, John A.,3,425,995.
Carter, Mary E.; and Price, John A.,3,425,996.
Carter, Mary E.; and Price, John A.,3,451,970.
Carter, Mary E.; and Price, John A.,3,457,238.
Carter, Mary E.; and Price, John A.,3,479,324.
Koch, Mary J.; and Price, John A.,3,425,998.
Stewart, Mary J.; and Price, John A.,3,438,944.
Stewart, Mary J.; and Price, John A.,3,438,945.
Stewart, Mary J.; and Price, John A.,3,451,972.
Stewart, Mary J.; and Price, John A.,3,451,973.
Stewart, Mary J.; and Price, John A.,3,454,531.
Stewart, Mary J.; and Price, John A.,3,457,239.
Stewart, Mary J.; and Price, John A.,3,475,382.
Price, John Clifford, to International Standard Electric Corporation. Digit pulse retiming arrangement for a binary code generator. 3,447,090, 5-27-69, Cl. 328-164.
Price, John Clifford; and Kitajewski, Ryszard, to International Standard Electric Corporation. Analogue-to-digital converter employing series connected negative resistance devices. 3,460,128, 8-5-69, Cl. 340-347.
Price, John Clifford: *See—*
Reeves, Alec Harley; and Price, John Clifford,3,430,228.
Price, Joseph, to Arde, Inc. Cylindrical fluid storage and expulsion apparatus. 3,421,661, 1-14-69, Cl. 222-94.
Price, Leon V. Lawn edger having cuttings collection means. 3,475,887, 11-4-69, Cl. 56-25.4
Price, Lowell T.; Moon, John J.; and Stewart, Charles M., to Phillips Petroleum Company. Separation of products of ethylene polymerization. 3,476,823, 11-4-69, Cl. 260-683.15
Price, Ralph E.: *See—*
Bricker, Robert E.; and Price, Ralph E.,3,467,074.
Price, Ralph E., to Landis Tool Company, mesne. Feed mechanism for grinding machine. 3,466,976, 9-16-69, Cl. 51-165.
Price, Ralph E.; and Bricker, Robert E., to Landis Tool Company, mesne. Indexing mechanism for machine tools. 3,468,066, 9-23-69, Cl. 51-72.
Price, Ralph E.; and Gebel, Kurt M., to Landis Tool Company. Precision feed mechanism with indicator. 3,482,361, 12-9-69, Cl. 51-165.
Fries, John R.; and Price, Ralph E.,3,468,070.
Fries, John R.; Price, Ralph E.; and Boller, John A.,3,468,069.
Price, Ralph Eldridge, to Landis Tool Company, mesne. Collet chuck. 3,472,525, 10-14-69, Cl. 279-58.
Price, Raymond J.: *See—*
Bartos, Donald M.; and Price, Raymond J.,3,440,587.
Price, Robert J.; and Fischer, Ernest W., Jr. Gain stabilization device. 3,475,748, 10-28-69, Cl. 340-347.
Price, Robert S., to United States of America, Navy. Method of repairing low-noise transmission cable. 3,433,687, 3-18-69, Cl. 156-47.
Price, Robert S. Lingerie clasp. 3,434,185, 3-25-69, Cl. 24-74.
Price, Tom B., to Texaco Inc. Well flow test apparatus. 3,451,475, 6-24-69, Cl. 166-0.5
Price, Walter J.: *See—*
Spangler, Carl D., Jr.; and Price, Walter J.,3,442,066.
Price, Warren H., to Gilson Bros., Co. Adjustable steering gear. 3,449,981, 6-17-69, Cl. 74-498.
Price, Warren H., to Gilson Bros. Co. Mounting linkage for rotary mowers. 3,483,684, 12-16-69, Cl. 56-25.4
Price, Warren H.; and Erickson, Donald G., to Jacobsen Manufacturing Company. Lawn mower control. 3,462,924, 8-26-69, Cl. 56-25.4
Price, William B. Surface treating apparatus. 3,482,273, 12-9-69, Cl. 15-49.
Price, William H., to Eastman Kodak Company. Reversed Galilean viewfinder. 3,472,578, 10-14-69, Cl. 350-212.

Price, William H., to Eastman Kodak Company. Zoom wide aperture lens. 3,477,776, 11-11-69, Cl. 350-184.
Price, William L.: *See—*
Cox, Andrew P., Jr.; and Price, William L.,3,432,851.
Price, William L., to Motorola, Inc. Method for making semiconductor structure with layers of preselected resistivity and conductivity type. 3,439,414, 4-22-69, Cl. 29-580.
Price Wilson Limited-Price Wilson Limitee: *See—*
Wallace, John Watson; and Snow, Randolph Bernard, 3,424,298.
Price-Pfister Brass Manufacturing Company: *See—*
Dornaus, Reinert F., 3,476,149.
Pricenski, Theodore J.: *See—*
Matheson, Wilfrid G.; Clune, James P.; and Pricenski, Theodore J.,3,427,421.
Pricer, Wilbur D., to International Business Machines Corporation. Transistor latch memory driven by coincidentally applied opositely directed pulses. 3,449,727, 6-10-69, Cl. 340-173.
Pricer, Wilbur D.: *See—*
Henle, Robert A.; and Pricer, Wilbur D.,3,449,728.
Prices Tailors Limited: *See—*
Glick, Leslie, 3,447,242.
Prichard, Evan S.; and Brennan, George A., to Challenge-Cook Bros., Incorporated. Transit mixer discharge chute. 3,456,769, 7-22-69, Cl. 193-4.
Prickett, Alfred Donald, to Lucas, Joseph (Industries) Limited. Thermally operable flasher units. 3,441,890, 4-29 -69, Cl. 337-138.
Prickett, Alfred Donald, to Lucas, Joseph, (Industries) Limited. Vehicle direction indicator systems. 3,469,232, 9-23-69, Cl. 340-80.
Prickett, Jack A.: *See—*
Van Horn, John W.; Teague, Jimmy Calvin; and Prickett, Jack A.,3,481,442.
Priddy, Lloyd W., to Honeywell Inc. Low deadband amplifier apparatus. 3,469,202, 9-23-69, Cl. 330-28.
Pride, Joseph D., Jr.; and Mayo, James W. Tubular coupling having low profile band segments with means for preventing relative rotation. 3,458,217, 7-29-69, Cl. 285-3.
Pridgeon, Royce: *See—*
Haines, Robert C.; and Pridgeon, Royce,3,428,314.
Pridy, Whetstine, B., 1/3 to Jordan, Harold d/b/a Jordan Rental & Service Company and 1/3 to Phillips, John M. Oil well electrical cable tensioning. 3,429,374, 2-25-69, Cl. 166-65.
Pridy, Whetstine B. Oil well tubing testing and cleaning apparatus. 3,436,957, 4-8-69, Cl. 73-40.5
Pridy, Whetstine B. Apparatus for straightening elongate metal members. 3,446,054, 5-27-69, Cl. 72-389.
Priebe, Edmund: *See—*
Burger, Heinz; Mohr, Heinrich; Priebe, Edmund; Reuter, Lothar; and Weber, Heinz,3,441,524.
Priebe, George W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,506.
Priebe, John R., to North American Rockwell Corporation. Optical scanner utilizing a spherical mirror. 3,469,030, 9-23-69, Cl. 178-7.6
Priebe, Lawrence W., Jr., to Columbia Products Company. Fishing rod. 3,466,783, 9-16-69, Cl. 43-18.
Priebs, Horst, to Anker-Werke Aktiengesellschaft. Multiple-color printing structure for bookkeeping machines and the like. 3,432,022, 3-11-69, Cl. 197-153.
Priebs, Horst, to Anker-Werke Aktiengesellschaft. Rockable type segments in printing mechanism for business machines. 3,456,583, 7-22-69, Cl. 101-94.
Priede, Teodore; and Wilkins, Jan, to C.A.V. Limited. Liquid fuel injection nozzles. 3,465,969, 9-9-69, Cl. 239-533.
Priefert, Lonnie. Pipe-handling attachment for a tro actor. 3,472,402, 10-14-69, Cl. 214-147.
Priefert, Marvin J. Vertical bumper guard attachment. 3,431,005, 3-4-69, Cl. 293-65.
Priefert, Marvin J. Towing hitch for vehicles. 3,455,574, 7-15-69, Cl. 280-491.
Priel, Ury; and Seelbach, Walter C., to Motorola, Inc. Clocked R-S flip-flop. 3,424,928, 1-28-69, Cl. 307-291.
Priel, Ury; Seelbach, Walter C.; and Treadway, Ronald L., to Motorola, Inc. Gated DC coupled J-K flip-flop. 3,440,449, 4-22-69, Cl. 307-291.
Prier, Walter R. Adapter unit for a fluid filter and a fluid cooler. 3,463,317, 8-26-69, Cl. 210-152.
Priese Werner K., to Hills-McCanna Company. Fluid actuated diaphragm valve. 3,451,423, 6-24-69, Cl. 137-556.
Priese, Werner K., to Hills-McCanna Company. Ball valve assembly. 3,425,663, 2-4-69, Cl. 251-180.
Priese, Werner K., to Hills-McCanna Company. Ball valve. 3,462,120, 8-19-69, Cl. 251-315.
Priese, Werner K.; and Davies David J., to Hills-McCanna Company, mesne. High pressure ball valve. 3,445,087, 5-20-69, Cl. 251-172.
Priese, Werner K.; and Davies, David J., to Hills-McCanna Company. Ball valve with seats for journalled ball. 3,480,253, 11-25-69, Cl. 251-174.
Priese, Werner K.; and Robbins, Vernon E., to Hills-McCanna Company. Ball valve assembly with both high and low pressure side seals. 3,439,897, 4-22-69, Cl. 251-170.
Priesmeyer, Charles H.: *See—*
Taylor, Wesley L.; Priesmeyer, Charles H.; Sauerman, Ernest C.; and Thorburn, David H.,3,472,014.
Priest, Clifford G.: *See—*
Johnson, James E.; Priest, Clifford G.; Lackey, Gerald F.; and Swonger, Kenneth D.,3,472,455.
Priest, Ernest Horace; and Priest, Gordon Michael. Heat exchanger and heat exchange element therefor. 3,444,855, 5-20-6, Cl. 126-116.
Priest, Gerald G.: *See—*
Carney, Leroy L.; and Priest, Gerald G.,3,428,426.
Priest, Gordon Michael: *See—*
Priest, Ernest Horace; and Priest, Gordon Michael,3,444,855.
Priestley, Eric, to Elliott Brothers (London) Limited. Aircraft control apparatus. 3,436,035, 4-1-69, Cl. 244-77.
Priestley, Eric, to Elliott Brothers (London) Limited. Stabilization systems. 3,469,550, 9-30-69, Cl. 114-66.5
Priestley, Hill M., to Lever Brothers Company. Tertiary organophosphine oxides. 3,467,717, 9-16-69, Cl. 260-606.5
Priestley, Philip Thorpe; Sebborn, Walter Sidney; and Selman, Raymond Frank William, to Eastman Kodak Company. Device for the determination of the concentration of a chemical compound in a liquid. 3,436,190, 4-1-69, Cl. 23-253.
Priestley, Ronald. Gas-liquid contact packing sheets. 3,466,019, 9-9-69, Cl. 261-112.
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois, to Schering A.G. Certain 2-benzenesulfonamido-5-oxypyrimidines. 3,431,263, 3-4-69, Cl. 260-256.5
Priewe, Hans; Rahtz, Dieter; Hempel, Reinhard; and Richter, Helmer, to Schering A.G.1-Hydroxy or chloro benzyl-2[-4 methyl, ethyl or hydroxyethyl-piperazino methyl] benzimiazoles. 3,423,413, 1-21-69, Cl. 260-268.
Prigozhin, Evgeny Semenovich: *See—*
Ruppeneit, Konstantin Vladimirovich; Prigozhin, Evgeny Semenovich; and Perkov, Jury Rodionovich,3,466,926.
Prijn, Cornelis, to U.S. Philips Corporation. Flash lamp holder for use with a camera. 3,459,933, 8-5-69, Cl. 240-1.3
Prikhodko, Viktor Ivanovich; and Pankov, Brois Vasilievich. Winch. 3,460,807, 8-12-69, Cl. 254-185.
Prill, Arnold L.: *See—*
Harrington, John H.; and Prill, Arnold L.,3,481,714.
Prill, Erhard J.: *See—*
Wygant, James C.; and Prill, Erhard J.,3,467,616.
Wygant, James C.; and Prill, Erhard J.,3,487,452.
Wygant, James C.; Arons, Howard L.; and Prill, Erhard J.,3,481,973.
Prill, Robert S.: *See—*
Masel, Marvin; and Prill, Robert S.,3,458,720.
Prill, Robert S.; Masel, Marvin; and McKenna, Joseph V., to General Precision Inc. Analog to digital converter. 3,438,026, 4-8-69, Cl. 340-347.
Prillieux, Marcel: *See—*
Asfazadourian, Michel; and Prillieux, Marcel,3,440,234.
Asfazadourian, Michel; Muths, Robert; and Prillieux, Marcel,3,449,459.
Prillinger, Peter F. M., to Caterpillar Tractor Company. Rock ejector for dual wheel vehicle. 3,464,714, 9-2-69, Cl. 280-158.
Prillwitz, Hans; Mechalke, Klaus; Kossler, Karl-Heinz; and Seyfarth, Bodo, to VEB Niles Pressluftwerkzeuge. Soundproof compressed-air machine. 3,459,275, 8-5-69, Cl. 181-36.
Prima Vinyl Molding Co., Inc.: *See—*
Tumminio, Gregory L., 3,442,046.
Primak, Alex: *See—*
Nunlist, Erwin J.; and Primak, Alex,3,425,582.
Primas, Alex L.: *See—*
Stoops, James W.; Bitterlich, Gordon M.; Lipkin, Moses R.; and Primas, Alex L.,3,480,416.
Prime Manufacturing Company: *See—*
Odell, Horace B., 3,441,467.
Primessing, Franz: *See—*
Wienand, Michael; and Primessing, Franz,3,461,628.
Primrose, Russell A., to Phillips Petroleum Company. Density balance. 3,423,989, 1-28-69, Cl. 73-30.
Primrose Third Axle Company Limited: *See—*
Harper, George Whitwell, 3,481,629.
Primus-Sievert Aktiebolag: *See—*
Mejyr, Carl-Anker, 3,425,406.
Prince, Allen K.: *See—*
Wolf, Paul A.; and Prince, Allen K.,3,443,970.
Prince, Arthur E., Jr.: *See—*
Orgen, Donald E.; Prince, Arthur E., Jr.; and Rozett, Robert,3,481,984.

Prince, Clarence F.; and Camila, Friedolf, to Package Machinery Company. Bag tray feed elevator mechanism for bag- loading machines. 3,440,801, 4-29-69, Cl. 53-189.
Prince, David C. Data reading system. 3,463,289, 8-26-69, Cl. 197-1.
Prince Gardner Company, Inc.: *See—*
Burniski, Anthony J.; and Mitchell, Calvin, 3,438,415.
Prince Manufacturing Company: *See—*
Zwiep, Theodore C.; and Weits, Ferdinand, 3,457,586.
Zwiep, Theodore C.; and Weits, Ferdinand, 3,486,187.
Prince, Norman; and Coast, Geoffrey, to United Kingdom Atomic Energy Authority. Graphite moderated nuclear reactor. 3,486,976, 12-30-69, Cl. 176-41.
Prince, Roland L. Crab trap. 3,440,758, 4-29-69, Cl. 43-100.
Prince, Terry B.: *See—*
Hall, Norris R.; Prince, Terry B.; and Ritchey, James F.,3,428,758.
Huizinga, Donald D.; and Prince, Terry B.,3,456,085.
Princenski, Theodore J.: *See—*
Matheson, Wilfrid G.; and Princenski, Theodore J.,3,427,547.
Princeton Chemical Research, Inc.: *See—*
Brownstein, Arthur M., 3,428,614.
Brownstein, Arthur M., 3,451,980.
Brownstein, Arthur M., 3,453,188.
Brownstein, Arthur M., 3,453,189.
Brownstein, Arthur M., 3,453,190.
Gould, Francis E., 3,481,755.
McMahon, Joseph F., 3,433,823.
Princeton Gamma-Tech, Inc.: *See—*
Baicker, Joseph A.; and Sayres, Alden R., 3,483,709.
Princeton Laboratories, Inc.: *See—*
Fishbein, Bernard, 3,450,815.
Hoff, Gail, 3,426,123.
Principe, Pacifico A.: *See—*
Levine, Seymour D.; and Principe, Pacifico A.,3,471,495.
Pan, Samuel C.; Principe, Pacifico A.; and Junta, Barbara,3,431,174.
Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A.,3,429,778.
Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A.,3,429,779.
Principe, Pacifico; and Levine, Seymour D., to Squibb, E. R., & Sons, Inc.$\Delta^{3,4}$-17α-hydroxy-A-norprogesterone and esters. 3,479,391, 11-18-69, Cl. 260-488.
Princz, Ferdinand; and Scott, William, to T.M.M. (Research) Limited. Textile combing machines. 3,426,609, 2-11-69, Cl. 74-394.
Prindell, Stuart M., Jr.; Perry, Malcolm R.; Martin, Vincent W.; and Fritsch, Daniel F., to Hamilton Watch Company. Elapsed time indicator. 3,479,815, 11-25-69, Cl. 58-145.
Prindle, Charles; and Feinman, Harvey M., to Robintech Incorporated. Eddy current flaw detector utilizing helical sensing coils surrounding the test path. 3,444,459, 5-13-69, Cl. 324-40.
Prine, David W., to Magnaflux Corporation. Microwave dielectric material testing system. 3,482,160, 12-2-69, Cl. 324-58.5
Pringle, Bruce G., to Northern Electric Company, Limited. Time relay and pulse generator circuit. 3,423,600, 1-21-69, Cl. 307-132.
Pringle, John E. C.: *See—*
Vivancos, Julien; and Corbin, Andre A., 3,463,204.
Pringle, William L.: *See—*
Brawner, Frederick A.; Smith, Lawrence H.; and Pringle, William L.,3,442,151.
Prins, Daniel A.: *See—*
Adank, Kurt; and Prins, Daniel A.,3,452,095.
Denss, Rolf; Rye, Hugo; and Prins, Daniel A.,3,424,755.
Kung, Werner; and Prins, Daniel A.,3,446,798.
Renner, Ulrich; and Prins, Daniel A.,3,481,937.
Schroter, Herbert; and Prins, Daniel A.,3,422,104.
Prins, Etienne P. Distributor with removable breaker cam and points. 3,450,848, 6-17-69, Cl. 200-22.
Prins, Gerard C., to Bell Telephone Laboratories, Incorporated. Automatic data reporting system with remote power deriving means. 3,466,395, 9-9-69, Cl. 179-2.
Printed Motors, Inc.: *See—*
Burr, Robert Page, 3,450,909.
Burr, Robert Page, 3,450,918.
Henry-Baudot, Jacques, 3,443,133.
Henry-Baudot, Jacques, 3,456,144.
Printing Arts Research Laboratories, Inc.: *See—*
Collier, Charles P.; and Shellabarger, John L., 3,454,764.
Marx, Walter S., Jr., 3,440,048.
Printing Machinery Company, The: *See—*
Brestel, Clarence C.; and Maschinot, Howard R., 3,468,200.
Maschinot, Howard R., 3,455,195.
Printing, Packaging & Allied Trades Research Association: *See—*
Render, Alwyn Barrie, 3,451,412.
Printing Plate Supply Co.: *See—*
Myers, Robert R., 3,473,470.
Redding, Edward M., 3,427,970.
Printz, Stanley M., to West Point-Pepperell, Inc., mesne. Method and apparatus for applying polyurethane foam backing to fabrics. 3,440,307, 4-22-69, Cl. 264-45.
Prinz, Eberhard: *See—*
Mauz, Otto; and Prinz, Eberhard,3,455,875.
Prinzhorn, Ernest F. J. Frames for use in serigraphic processes. 3,422,554, 1-21-69, Cl. 38-102.1
Prior, Arthur Cunningham, to National Research Development Corporation. Manufacture of superconductors. 3,473,217, 10-21-69, Cl. 29-599.
Prior, Hector Thomas. Multicurved building structure. 3,452,494, 7-1-69, Cl. 52-80.
Prior, Stanley: *See—*
Lambert, Keith Trevor; and Prior, Stanley,3,452,483.
Prior, William C. Hydrofoil watercraft. 3,459,146, 8-5-69, Cl. 114-66.5
Prisco, Biagio. Instant gift package. 3,434,645, 3-25-69, Cl. 229-8.
Prismo Safety Corporation: *See—*
de Vries, Edward R., 3,474,057.
Rideout, Donald C.; Shuler, Luke M.; and Riley, William H., Jr., 3,486,926.
Pritchard, Arnold J. Piston pin silencer. 3,442,184, 5-6-69, Cl. 92-187.
Pritchard, Clarence L., to Malsbary Manufacturing Company. Vehicle washing apparatus. 3,459,203, 8-5-69, Cl. 134-123.
Pritchard, Clarence L.; and Telford, Carlyle O., to Malsbary Manufacturing Company. Multiple fluid pump. 3,467,016, 9-16-69, Cl. 103-9.
Pritchard, Clyde L.; and Pohl, Russell A., to Raven Industries, Inc. Decelerator canopy and aerostat envelope. 3,473,763, 10-21-69, Cl. 244-142.
Pritchard, Clyde L.: *See—*
Pohl, Russell A.; and Pritchard, Clyde L.,3,458,161.
Pritchard, Dalton Harold, to RCA Corporation. Cathode ray tube. 3,452,233, 6-24-69, Cl. 313-69.
Pritchard, George A., deceased (by Pritchard, Nelle W., sole legatee and devisee); and Van Zile, Leon E. Impregnating and coating compositions and articles and products treated therewith. 3,451,957, 6-24-69, Cl. 260-22.
Pritchard, James E., to Phillips Petroleum Company. Method of making a foamable polymer and foamable composition obtained therefrom. 3,461,087, 8-12-69, Cl. 260-2.5
Pritchard, James E.: *See—*
Gallaugher, Major L.; and Pritchard, James E.,3,468,702.
Pritchard, John P., Jr., to Texas Instruments, Incorporated. Method for producting sets of photomask having accurate registration. 3,477,848, 11-11-69, Cl. 96-27.
Pritchard, John S., to Robin Products Company. Fastening clip. 3,441,986, 5-6-69, Cl. 24-73.
Pritchard, John: *See—*
Ellison, Ronald E.; and Pritchard, John,3,443,535.
Ellison, Ronald; Pritchard, John; and Pickles, Norman,3,459,143.
Pritchard, Paul B., to General Motors Corporation. Torque transmitter. 3,476,228, 11-4-69, Cl. 192-107.
Pritchard, Ralph W., II: *See—*
Gier, Delta W.; and Pritchard, Ralph W., II,3,428,669.
Pritchard, Ruth, to Celanese Corporation. Blends comprising oxymethylene polymers and rubbery polymers. 3,476,832, 11-4-69, Cl. 260-887.
Pritchard, Vernon M.; and McBroom, Marvin L. Selective fowl caller. 3,466,794, 9-16-69, Cl. 46-177.
Pritchett, William A., to Du Pont de Nemours, E. I., and Company. Dinitrodialkylbenzene. 3,459,816, 8-5-69, Cl. 260-645.
Pritchett, William C., to Atlantic Richfield Company. Calibration of gamma ray radioactive borehole logging tools. 3,435,215, 3-25-69, Cl. 250-83.
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L., to Atlantic Richfield Company. Method for chlorine logging using a plurality of select narrow windows as determinative of chlorine. 3,484,608, 12-16-69, Cl. 250-71.5
Pritchett, William C.; Gant, Orland J., Jr.; and Calkins, Ray L., to Atlantic Richfield Company. Method for chlorine logging wherein both chlorine and calcium are logged using a plurality of select narrow windows. 3,484,609, 12-16-69, Cl. 250-71.5
Pritomanov, Alexei Evgenievich: *See—*
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.
Pritulsky, James, to AMP Incorporated. Printed circuit board connectors. 3,479,634, 11-18-69, Cl. 339-17.
Privett, Herbert L.; and Ruff, Harold R., to British Lighting Industries Limited. Fluorescent lamp-dimming circuit. 3,463,964, 8-26-69, Cl. 315-247.
Privette, Walter R., to Nalco Chemical Company. Method for improving distillation efficiency of organic liquids. 3,464,916, 9-2-69, Cl. 208-348.

Privette, Walter R.; and Domba, Elemer, to Nalco Chemical Company. Method for improving distillation efficiency of an aqueous mixture by addition of a silicon-containing material. 3,467,581, 9-16-69, Cl. 203-57.
Prizler, Paul D., to Swimquip, Inc. Valve and liquid flow system. 3,471,021, 10-7-69, Cl. 210-169.
Pro, George M., to Clipper Manufacturing Company, Inc. Shutoff valve for cementitious pressure vessels. 3,429,554, 2-25-69, Cl. 251-175.
Pro-Gramo, Inc.: *See*—
Le Marr, Wesley Albert, 3,482,329.
Pro-Phy-Lac-Tic Brush Company: *See*—
St. Laurence, William A.; and Halberstadt, Lewis James, 3,425,084.
Pro-Tee-Off Company: *See*—
Loeffler, Herbert H., 3,479,878.
Probert, Kenneth D.: *See*—
Kizer, Richard W.; and Probert, Kenneth D.,3,424,508.
Probst, Gerald W.; Hoehn, Marvin M.; and McGuire, James M., to Lilly, Eli, and Company. Anthelvencin and process for the production thereof. 3,467,750, 9-16-69, Cl. 424-118.
Probst, John S., Jr., to Postal Church Service, Inc. Contribution envelope. 3,482,765, 12-9-69, Cl. 229-75.
Probst, Otto; Hornig, Lothar; and Hirsch, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of methyl and ethyl acetoacetate. 3,441,597, 4-29-69, Cl. 260-483.
Probst, Otto; Horning, Lothar; Hirsch, Lothar; and Gosse, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of acetoacetic esters. 3,445,509, 5-20-69, Cl. 260-479.
Probst, Otto: *See*—
Roscher, Gunter; Gunther, Klaus; Probst, Otto; and Scholderer, Jorg,3,438,870.
Probst, Richard O., to Ransburg Electro-Coating Corporation. Electrostatic spray device. 3,425,625, 2-4-69, Cl. 239-15.
Probst, Richard O., to Ransburg Electro-Coating Corporation. Electrostatic coating apparatus. 3,459,374, 8-5-69, Cl. 239-15.
Probst, Richard O.; Thatcher, Charles R.; and Zupan, Norbert M., to Ransburg Electro-Coating Corp. Ransburg Electro-Coating Corporation. . 3,439,649, 4-22-69, Cl. 118-634.
Probsting, Bernhard, to Deere & Company. Ensilage harvester. 3,431,712, 3-11-69, Cl. 56-23.
Process Engineering Co., S.A.: *See*—
Mueller, Hans, 3,460,810.
Process Engineering Inc.: *See*—
Latham, William Nichols, 3,425,585.
Nason, Walter C.; and Latham, William Nichols, 3,481,505.
Process Equipment Company of Tipp City Inc.: *See*—
Studebaker, Robert H., 3,437,825.
Studebaker, Robert H., 3,471,234.
Process Equipment Engineering Co.: *See*—
Kuelling, Walter, 3,475,832.
Prochaska, Robert J., to General Electric Company. Cyclic aromatic carbonate dimers. 3,422,119, 1-14-69, Cl. 260-340.2
Prochaska, Robert J., to General Electric Company. Thermoplastic soluble polymer of (1) an ortho- ortho alkylidene bridged novolak and (2) a difunctional halogen material. 3,481,901, 12-2-69, Cl. 260-49.
Prochaska, Wolfgang, to Kunststoffwerk Gebr. Anger G.m.b.H. & Co. Process for producing molded bodies. 3,458,619, 7-29-69, Cl. 264-261.
Prochazka, Vladimir: *See*—
Vit, Jaroslav; Prochazka, Vladimir; and Salat, Vaclav,3,460,821.
Prochnow, Horst, to Institut fur Regelungstechnik. Drift free stabilized operational amplifier. 3,435,356, 3-25-69, Cl. 330-9.
Prochnow, Rudolf, to Fernseh G.m.b.H. Apparatus for the recording or playback of electrical signals. 3,429,992, 2-25-69, Cl. 178-6.6
Procida: *See*—
Chiffert, Pierre; and Rols, Gilbert, 3,449,386.
Procknow, Joseph J.: *See*—
McGinty, William K.; and Procknow, Joseph J.,3,422,261.
Procop, Alex J., to GAF Corporation. Film handling mechanism for a moving picture projector. 3,481,662, 12-2-69, Cl. 352-180.
Procopio, Leo W., Jr., to United States of America, Air Force. Direction finding antenna. 3,483,561, 12-9-69, Cl. 343-118.
Procter & Gamble Company, The: *See*—
Amneus, John S., 3,473,576.
Bedenk, William T.; and Luebering, James E., 3,486,908.
Bowles, Richard S., 3,474,927.
Chestochowski, Benjamin A.; Conklin, Edward J.; and Ellison, Cecil A., 3,440,063.
Clement, Finn; and Cope, Paul E., 3,441,057.
Conklin, Edward J.; and Judge, Leo F., Jr., 3,424,849.
Connor, Daniel S., 3,450,782.
Cooke, Robert R.; and Roudebush, Richard M., 3,433,649.
De Mott, Donald N., 3,471,535.
Dobson, Robert D.; Going, Louis H.; and Hair, Eddy R., 3,449,133.
Dobson, Robert D., 3,471,025.
Drew, Howard F.; and Hall, Robert E., 3,441,508.
Drew, Howard F.; and Hall, Robert E., 3,441,611.
Drew, Howard F., 3,441,612.
Drew, Howard F., 3,450,637.
Erman, William F., 3,420,886.
Franz, Norman J., 3,445,897.
Franz, Norman J., 3,455,496.
Franz, Norman J., 3,468,096.
Gibson, Thomas W., 3,468,928.
Gibson, Thomas W.; and Erman, William F., 3,481,998.
Going, Louis H.; Mersfelder, Robert E.; and Schmitt, Robert O., 3,450,727.
Griebstein, William J., 3,448,132.
Hackett, John W.; and Gardner, Earl E., 3,476,079.
Haefele, John W., 3,427,382.
Haefele, John W., 3,465,759.
Hair, Eddy R.; and Strang, David A., 3,486,907.
Hall, Robert E.; Kessler, Adriaan; and McLain, Aubrey R., 3,459,808.
Hanekamp, Robert D.; and Jayne, Keith D., 3,467,237.
Harm, Alson Robert, 3,460,671.
Hatton, William A.; and Lowrey, Erlend R., 3,428,461.
Haxby, Robert D., 3,485,761.
Hays, Hugh R.; and Kosolapoff, Gennady M., 3,445,522.
Henry, Wilbur G., 3,471,906.
Jacobsen, Ronald Lowell; Kristoff, William Robert; Ohren, Tom H.; and Spatz, Dale, 3,482,947.
Japikse, Cornelis, 3,425,842.
Japikse, Cornelis H., 3,425,843.
Kirkland, Jerry J., 3,427,380.
Kirkland, Jerry J., 3,427,381.
Kokx, Darrel D., 3,431,910.
Lancashire, Frank, 3,454,500.
Laughlin, Robert G.; and Berry, Jim S., 3,445,515.
Lawrence, Benjamin; and Morris, Frank G., Jr., 3,484,251.
Lewis, Ronald G.; and Erman, William F., 3,478,114.
Lucas, Malcolm B., 3,458,377.
Maag, Gustav A., 3,477,571.
Mac Kendrick, Robert G., 3,453,712.
Mac Kendrick, Robert G., 3,485,007.
Marhauer, Hans H., 3,481,509.
Markgraf, John H.; and Quinn, Herbert, 3,485,919.
McCarthy, Robert F., 3,457,137.
McClain, Herbert K., 3,451,758.
McDonald, Harrison H., Jr., 3,437,315.
Megison, Donald R.; and Barton, Stanley, 3,430,630.
Meyer, Larry E.; and Walker, Richard D., 3,454,499.
Morgan, Frank; and Walden, Alan Frank, 3,453,144.
Nelson, Kenneth W., 3,429,714.
Niemeyer, Robert A., 3,443,682.
Pflaumer, Phillipo3 Filcik, Julius P., 3,484,480.
Quimby, Oscar T., 3,422,137.
Quimby, Oscar T., 3,451,937.
Rave, Terence William, 3,475,490.
Rhodes, Geoffrey Irving, 3,439,841.
Roald, Arnvid S.; and De Oude, Nicolaas T., 3,451,935.
Roy, Clarence H., 3,422,021.
Seiden, Paul, 3,459,777.
Sisson, James B.; and Kieffer, Ronald J., 3,441,130.
Skidmore, John E., 3,458,078.
Skinner, David L., 3,468,971.
Thompson, James E., 3,458,323.
Walker, George B.; and Cambre, Cushman M., 3,428,680.
Weiser, Herman J., Jr.; and Davis, Jerry E., 3,486,299.
Procter Chemical Company, Inc.: *See*—
Robeson, Max O., 3,453,320.
Procter, David Alwyn: *See*—
Huston, Alexander Edward; and Procter, David Alwyn,3,443,148.
Procter, Edward C.: *See*—
Blanshine, Allison W.; and Procter, Edward C.,3,463,024.
Procter, Elzie H. Vertically adjustable basketball goal. 3,427,025, 2-11-69, Cl. 273-1.5
Procter, Robert. Keyholder. 3,436,942, 4-8-69, Cl. 70-456.
Proctor & Schwartz, Inc.: *See*—
Thygeson, John R., Sr., 3,429,057.
Proctor, Dale D.: *See*—
Cofer, Daniel B.; Ward, George C.; Proctor, Dale D.; and Bray, Thoma L.,3,454,077.
Ward, George C.; Todd, Chester F.; Proctor, Dale D.; and Cofer, Daniel B.,3,469,620.
Proctor, Denver L.: *See*—
Proctor, Rudy R.; and Proctor, Denver L.,3,447,753.
Proctor, Edward D., to Bowles Engineering Corporation. Fluid signal code converter. 3,442,447, 5-6-69, Cl. 235-201.
Proctor, Noel B., to American Machine & Foundry Company. Ultrasonic pipe testing method and apparatus. 3,436,958, 4-8-69, Cl. 73-67.6

Proctor, Noel B., to American Machine & Foundry Company. Coating inspection method and apparatus using infrared radiation. 3,448,268, 6-3-69, Cl. 250-83.3
Proctor, Noel B., to American Machine & Foundry Company. Search coil arrangement. 3,465,274, 9-2-69, Cl. 336-73.
Proctor, Noel B.; and Wood, Fenton M., to American Machine & Foundry Company. Apparatus for recording data. 3,460,152, 8-5-69, Cl. 346-33.
Proctor, Noel B.: *See*—
Wood, Fenton M.; Walters, William T.; Rogers, Philip A.; and Proctor, Noel B.,3,437,810.
Proctor, Oliver P., Jr., to Phillips Petroleum Company. Cyclohexane separation. 3,426,088, 2-4-69, Cl. 260-666.
Proctor, Paul D.; and Frazer, John H. Bipod gunmount. 3,445,082, 5-20-69, Cl. 248-186.
Proctor, Phillip K.: *See*—
Williams, James W.; and Proctor, Phillip K.,3,477,745.
Proctor, Ronald Allan, to Britax (London) Limited. Buckles for safety belts. 3,440,697, 4-29-69, Cl. 24-230.
Proctor, Rudy R.; and Proctor, Denver L., to Jet-X Corporation. Spray washer with detergent feed. 3,447,753, 6-3-69, Cl. 239-317.
Proctor, Sidney E., to Hoy, Austin, and Company, Limited. L-shaped mineral cutter pick. 3,428,364, 2-18-69, Cl. 299-91.
Proctor, Sidney E., to Hoy, Austin, and Company Limited. Cutter picks. 3,485,533, 12-23-69, Cl. 299-92.
Proctor, Thomas: *See*—
La Duke, Norman L.; and Proctor, Thomas,3,465,298.
Proctor, William E., Jr., to Leeds & Northrup Company. Laminated glass electrode diaphragm. 3,458,422, 7-29-69, Cl. 204-195.
Proctor-Silex, Incorporated: *See*—
Decrouez, Pierre L., 3,428,780.
Schwartz, Walter M., Jr.; Turner, Charles R.; and Eaton, John L., Jr., 3,483,814.
Turner, Charles R.; Myers, Walter E.; and Manship, Luther P., 3,425,016.
Turner, Charles Roger, 3,468,043.
Prodesco, Inc.: *See*—
Alterman, Daniel S.; and Williams, Lester, 3,434,508.
Prodo, Kenneth W.: *See*—
Petrocci, Alfonso N.; Prodo, Kenneth W.; Shay, Edward G.; and Wakeman, Reginald L.,3,472,939.
Producers Chemical Company: *See*—
Guinn, Jerry H.; and Wright, William Sherwood, 3,480,079.
Producers Cotton Oil: *See*—
Berriman, Lester P.; and Levy, Kenneth E., 3,484,904.
Product & Process Development Associates, Inc.: *See*—
Bluck, Raymond M., 3,426,804.
Product Design & Manufacturing Corporation: *See*—
Venaleck, John T., 3,475,715.
Production Control Units, Inc.: *See*—
Bruce, Ralph E., 3,425,717.
Production Engineering Corporation: *See*—
Gerard, Deryck A., 3,467,306.
Production Machinery Corporation: *See*—
Beifuss, William E., 3,456,859.
Ranney, Neil J., 3,461,703.
Production Machines, Inc.: *See*—
Heth, Edwin M., 3,466,074.
Productive Equipment Corporation: *See*—
Rudnick, Gerald L.; and Haluch, Leonard M., 3,447,269.
Products Machine Company, The: *See*—
Saslawsky, Sheldon, 3,469,076.
Products Research & Chemical Corporation: *See*—
Cook, Ralph J.; and Moline, Clifford C., 3,475,010.
Morris, Lester; Thompson, Ron E.; and Seegman, Irvin P., 3,431,239.
Schumann, Joseph M.; Stayboldt, Paul J.; and Cook, Ralph J., 3,439,839.
Produits Chimiques Pechiney-Saint-Gobain: *See*—
Bigot, Bernard, 3,455,649.
Botton, Roger; and Steinmetz, Andre, 3,446,589.
Botton, Roger; and Steinmetz, Andre, 3,471,256.
Charnier, Robert; and Muller, Francois, 3,455,874.
Charnier, Robert; and Muller, Francois, 3,463,756.
Chretien, Roland; and Wetroff, Georges, 3,463,788.
Chretien, Roland; d'Ogny, Francois; and Wetroff, Georges, 3,475,421.
Chretien, Roland; and Wetroff, Georges, 3,475,462.
Chretien, Roland; and Wetroff, Georges, 3,483,257.
Courtier, Armand Jean, 3,455,797.
Fournel, Francis, 3,423,363.
Graulier, Maxime, 3,480,389.
Guillermard, Pierre; Juston, Paul; and Detuncq, Yves, 3,455,963.
Meiller, Francois, 3,475,454.
Michel, Max; and Papec, Denis, 3,433,588.
Michel, Max, 3,480,388.
Rombau, Paul A., 3,446,576.
Steinbach-Van Gaver, Georgette, 3,448,090.
Thomas, Jean Claude, 3,480,606.
Proell, Wayne A., to Standard Oil Company (Indiana). Process for catalytically controlled decomposition of a solid gas forming body. 3,460,348, 8-12-69, Cl. 60-218.
Proell, Wayne A. Concrete additive. 3,468,684, 9-23-69, Cl. 106-95.
Proemsey, John H.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,425,885.
Profenna, Leonardo C., to Jacobsen Manufacturing Company. Articularly mounted gang mowers on a tractor. 3,472,005, 10-14-69, Cl. 56-7.
Professional General Electronic Products: *See*—
Nudelmont, Jean-Claude, 3,443,162.
Proffer, Carl W., to General Motors Corporation. Adjusting tool. 3,437,158, 4-8-69, Cl. 173-163.
Proffit, Robert L.: *See*—
Netusil, William F.; and Proffit, Robert L.,3,436,966.
Proffitt, Jack M., to Texas Instruments, Incorporated. Apparatus and method for continuous marine multi-channel seismic exploration. 3,437,989, 4-8-69, Cl. 340-15.5
Proffitt, Thomas Jefferson, Jr., to Du Pont de Nemours, E. I., and Company. Acrylic fibers. 3,434,874, 3-25-69, Cl. 117-138.8
Profit, Alain; and Chollet, Raymond A. System of programmed working for space telecommunication station. 3,454,928, 7-8-69, Cl. 340-172.5
Profita, Gerald A., to Babcock & Wilcox Company, The. Method of welding. 3,422,517, 1-21-69, Cl. 29-157.4
Profitable Resources Inc.: *See*—
Boop, Gene T., 3,441,093.
Profunser, Franz. Electric gas ignitor. 3,437,880, 4-8-69, Cl. 317-98.
Profy, Albert Thomas. Hemostat for cutting and removing sutures. 3,443,313, 5-13-69, Cl. 30-134.
Progil: *See*—
Ancelle, Bernard; and Plancon, Marcel, 3,451,888.
Benoit, Odile; and Giolito, Francois, 3,464,925.
Bonnel, Bernard; and Neel, Jean, 3,437,625.
Dubreuil, Claude, 3,443,621.
Giolito, Francois; and Philippe, Jean, 3,429,816.
Lehureau, Jean; and Pierrot, Francois, 3,426,064.
Neel, Jean; and Bonnel, Bernard, 3,450,661.
Rozie, Maurice; and Desire, Pierre, 3,431,072.
Schwachhofer, Ghislain; and Fritz, Jacques, 3,476,835.
Progler, Hans; Samaga, Wilhelm; Ehms, Hermann; and Eickemeyer, Rudolf, to Linde Aktiengesellschaft. Tankship for liquefied gases. 3,459,148, 8-5-69, Cl. 114-74.
Programmed & Remote Systems Corporation: *See*—
Hedin, Robert S., 3,443,578.
Rose, Glenn R., 3,453,983.
Progressive Dynamics, Inc.: *See*—
Kilbourn, Eugene L., 3,442,443.
Progressive Industries, Inc.: *See*—
Washburn, Loren, 3,448,848.
Progressive Metal Equipment, Inc.: *See*—
Brodsky, Benjamin; and Corini, Louis J., 3,445,039.
Progressive Products Co.: *See*—
Kersnar, Paul W.; and Taormina, Samuel, 3,454,647.
Progressive Research Corporation: *See*—
Di Giorgio, Rocco F., 3,428,992.
Progresswerk Wornlein & Zellhofer: *See*—
Lang, Georg, 3,443,615.
Prohaska, Edward S.: *See*—
Forman, Thomas H.; and Prohaska, Edward S.,3,439,615.
Prohaska, John O., to Orcco Industries, Inc. Sponge rubber padding. 3,426,388, 2-11-69, Cl. 18-4.
Prohl, Robert F. Waste disposal devices. 3,448,932, 6-10-69, Cl. 241-42.
Prohofsky, Le Roy A., to Sperry Rand Corporation. Digital sense amplifier. 3,450,900, 6-17-69, Cl. 307-239.
Prohofsky, Le Roy A.: *See*—
Bergman, Robert J.; and Prohofsky, Le Roy A.,3,435,435.
Prohofsky, Leroy A.; and Tierney, Peter R. Input output circuit. 3,440,440, 4-22-69, Cl. 307-208.
Projecteurs Cibie: *See*—
Cibie, Pierre, 3,453,424.
Projects General Corporation of America: *See*—
Pettit, Frank P., 3,446,158.
Projil: *See*—
Berthoux, Jean; Quillet, Jean-Pierre; and Schneider, Gerard, 3,436,181.
Prokopowicz, Thomas I., to Sprague Electric Company. Donor-acceptor ion-modified barium-titanate capacitor and process. 3,426,251, 2-4-69, Cl. 317-230.
Proll, Peter S., to Proll Products, Co. Valve structure for musical wind instruments. 3,420,133, 1-7-69, Cl. 84-388.
Proll Products Co.: *See*—
Novaco, Stanley G., 3,426,477.
Proll, Peter S., 3,420,133.
Prolss, Erhard: *See*—
Lippmann, Hans Joachim; Prolss, Erhard; and Schenk, Horst,3,439,403.
Schenk, Horst; and Prolss, Erhard,3,442,013.

Prolss, Wilhelm. Mast assembly for sailing vessels. 3,483,840, 12-16-69, Cl. 114-104.
Promat S. A. R. L.: *See—*
Cloup, Francis Jean Gabriel, 3,469,306.
Promecam Sisson-Lehmann, Societe Anonyme: *See—*
Giordano, Roger Francois, 3,440,847.
Promin, Robert M.: *See—*
Bankauf, William F.; and Promin, Robert M.,3,422,949.
Pronovost, Charles F. Water pipe coupler. 3,435,507, 4-1-69, Cl. 29-237.
Pronovost, Joseph Olivier Jacques: *See—*
Barringer, Anthony Rene; Pronovost, Joseph Olivier Jacques; and Turner, Kenneth Alan,3,430,221.
Prontor-Werk Alfred Gauthier, G.m.b.H.: *See—*
Espig, Winfried, 3,437,026.
Helber, Karl; and Wurster, Richard, 3,482,501.
Mutterer, Heinz Karl, 3,455,228.
Mutterer, Heinz Karl, 3,460,455.
Racki, Waldemar, 3,427,947.
Rentschler, Waldemar T.; and Starp, Franz W. R., 3,448,671.
Rentschler, Waldemar T.; and Starp, Franz W. R., 3,456,101.
Rentschler, Waldemar T.; and Starp, Franz W. R., 3,468,236.
Rentschler, Waldemar T.; and Rittmann, Dieter, 3,476,030.
Rentschler, Waldemar T., 3,480,860.
Rittman, Dieter, 3,468,235.
Starp, Franz W. R., 3,421,427.
Starp, Franz W. R., 3,425,329.
Starp, Franz W. R.; and Richter, Carl Fritz, 3,444,797.
Starp, Franz W. R., 3,446,133.
Starp, Franz W. R.; and Bott, Reinhold, 3,459,112.
Starp, Franz W. R.; and Rittman, Dieter, 3,460,451.
Starp, Franz W. R.; Richter, Carl Fritz; and Erhard, Eugen Adolf, 3,460,454.
Starp, Franz W. R., 3,468,231.
Starp, Franz W. R., 3,476,031.
Straub, Helmut, 3,437,027.
Theurer, Richard, 3,425,331.
Weller, Erwin, 3,468,234.
Wurster, Richard, 3,474,716.
Properzi, Ilario. Device for feeding molten metal into the peripheral groove of a continuous casting wheel for the production of metal bars or ingots. 3,422,881, 1-21-69, Cl. 164-278.
Properzi, Ilario. Device for feeding molten metal to a continuous casting device. 3,452,808, 7-1-69, Cl. 164-278.
Propoggio, Robert N. Flat-folded inflatable replicas of three-dimensional articles. 3,451,882, 6-24-69, Cl. 161-17.
Propper Manufacturing Co., Inc.: *See—*
Speelman, Irving A., 3,430,514.
Speelman, Irving A., 3,463,301.
Speelman, Irving A., 3,483,943.
Propper, Ronald, to Hoffmann-La Roche Inc. Process for producing 3,3-alkylenedioxy- or 3,3-dialkoxyalkyl halides. 3,453,290, 7-1-69, Cl. 260-340.9
Propst, Merton C., Jr.: *See—*
Holland, Victor B.; Propst, Merton C., Jr.; and Wyatt, Harold W.,3,425,788.
Propst, Robert L.; and Kelley, James O., to Miller, Herman, Inc. Space divider system. 3,425,171, 2-4-69, Cl. 52-36.
Propst, Robert L.; and Kelley, James O., to Herman Miller Inc. Panel joint. 3,430,997, 3-4-69, Cl. 287-189.36
Propst, Robert L.; and Kelley, James O., to Miller, Herman, Inc. Disposable waste holder. 3,455,529, 7-15-69, Cl. 248-100.
Propus, Louis. Resilient ventilated back and seat support. 3,480,323, 11-25-69, Cl. 297-253.
Prosa, Aldo C.: *See—*
Achterling, Harold J.; Prosa, Aldo C.; Spencer, Donald J.; and Perry, Robert C.,3,441,124.
Prosen, Emil M., to Nobilium Products, Inc. Method of making cast movable joint. 3,434,526, 3-25-69, Cl. 164-69.
Prosen, Emil M., to Nobilium Products, Inc. Prosthetic dentistry. 3,470,935, 10-7-69, Cl. 164-34.
Prosen, Gildo G. Device for brewing beverage. 3,469,522, 9-30-69, Cl. 99-308.
Proskauer, Walter: *See—*
Lopez, Firmin O.; and Proskauer, Walter,3,424,997.
Proske, Gerhard: *See—*
Auler, Hans W.; and Proske, Gerhard,3,451,962.
Proskuryakov, Lev Mikhailovich; and Zizin, Valentin Grigorievich. Apparatus for producing hydrogen and oxygen. 3,433,729, 3-18-69, Cl. 204-278.
Prospert, Jacques: *See—*
Lefevre, Jean; Prospert, Jacques; and Raggenbass, Andre,3,485,763.
Pross, Wilhelm, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic shutter. 3,435,746, 4-1-69, Cl. 95-53.
Prosser, Clinton D., to International Harvester Company. Rotary husking unit. 3,425,422, 2-4-69, Cl. 130-5.
Prosser, Daniel Shafter. Water ski towline reel and drive means therefor. 3,443,772, 5-13-69, Cl. 242-86.5
Prosser, Robert A. Chromatographic method and apparatus. 3,462,918, 8-26-69, Cl. 55-67.
Prosser, Thomas J., to Hercules Incorporated. Preparation of pentaerythritol allyl ethers in dimethylsulfoxide. 3,428,693, 2-18-69, Cl. 260-615.
Prost-Dame, Claude; Ventre, Pierre; and Bouthors, Pierre, to Regie Nationale des Usines Renault. Door locking and sealing devices. 3,449,864, 6-17-69, Cl. 49-477.
Prost, Gerard; and Sole, Jean, to Commissariat a l'Energie Atomique. Method and apparatus for releasing electric energy. 3,479,569, 11-18-69, Cl. 317-123.
Prost-Marechal, Jacques: *See—*
Joly, Robert; Warnant, Julien; Jolly, Jean; Prost-Marechal, Jacques; Bucourt, Robert; and Tessier, Jean,3,424,745.
Protection Controls, Inc.: *See—*
Mandock, Richard F.; and Plambeck, Ronald F., 3,437,884.
Protective Treatments, Inc.: *See—*
Strack, Donald R., 3,478,475.
Proteus Foods & Industries, Inc.: *See—*
Beach, Paul L., 3,454,405.
Protex Corporation Limited: *See—*
Dale, Ralph David, 3,461,191.
Protex Industries Inc.: *See—*
Lorenzen, Edwin N., 3,435,989.
Prothero, William A.: *See—*
Goodkind, John M.; and Prothero, William A.,3,449,956.
Protiva, Miroslav; Rajsner, Miroslav; and Metysova, Jirina, to SPOFA, Spojene podniky pro zdravotnickou vyrobu. Dihydrothieno benzothiepene. 3,487,085, 12-30-69, Cl. 260-268.
Protopopov, Nikolai Nikolaevich: *See—*
Kotlyarov, Alexandr Mikhailovich; and Protopopov, Nikolai Nikolaevich,3,424,257.
Prototech Company: *See—*
Allen, Robert J.; Novack, Robert Lee; and Petrow, Henry George, 3,471,332.
Novack, Robert L.; Moulton, David McLeod; and Juda, Walter, 3,471,334.
Novack, Robert Lee, 3,471,333.
Petrow, Henry George, 3,471,331.
Prototech Incorporated: *See—*
Juda, Walter; and Frant, Martin S., 3,423,244.
Juda, Walter; and Novack, Robert Lee, 3,447,288.
Juda, Walter; Moulton, David McLeod; and Novack, Robert L., 3,470,026.
Moulton, David McL.; Novack, Robert L.; and Juda, Walter, 3,471,335.
Moulton, David McLeod, 3,433,675.
Protsenko, Viktor Vasilievich: *See—*
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich,3,443,836.
Proud, Joseph M., Jr., to Ikor Incorporated. Radio frequency generators. 3,484,619, 12-16-69, Cl. 307-106.
Proud, Ralph A., Jr.; O'Brien, Richard C.; Graubert, Seth; and Goldstein, Theodore J., to Harris-Intertype Corporation. Shift register control for typesetting machines. 3,470,539, 9-30-69, Cl. 340-172.5
Proudfoot, Ward M.: *See—*
Proudfoot, Ward M.; Craig, Burnie M.; and Viancour, Albert D., 3,480,043.
Proudfoot, Ward M.; Craig, Burnie M.; and Viancour, Albert D., to Proudfoot, Ward M., mesne. Emergency leak clamp. 3,480,043, 11-25-69, Cl. 138-99.
Proudman, Antony: *See—*
Owen, Charles E.; Proudman, Antony; Taub, Daniel M.; and Warwick, William A.,3,432,830.
Proudman, Michael C.: *See—*
Wycherley, John Ralph; Proudman, Michael C.; and Clare, Alan C.,3,469,182.
Prough, Wendell Arthur. Vehicle passenger safety devices. 3,424,496, 1-28-69, Cl. 297-388.
Prouvost, Pierre: *See—*
Nalpas, Raoul M.; and Prouvost, Pierre,3,439,484.
Provence, Thomas K., Jr.: *See—*
Foy, Leonard A.; and Provence, Thomas K., Jr. ,3,469,520.
Provencher, Camille L.: *See—*
Morris, Arthur R.; Provencher, Camille L.; and Silverman, Sydney,3,426,398.
Provi, Mike A., to Brearley Company, The. Bathroom scales. 3,426,861, 2-11-69, Cl. 177-164.
Provi, Mike A.; and Guinter, S Robert, to Brearley Company, The. Low profile bathroom scales. 3,460,642, 8-12-69, Cl. 177-256.
Provi, Mike A.; and Guinter, S. Robert, to Brearley Company, The. Two-piece sheet metal bell-crank lever construction. 3,478,618, 11-18-69, Cl. 74-519.
Provi, Mike A.; Stinson, George E.; and Lang, Lawrence V., to Brearley Company, The. Bathroom scale with electronically operated readout instrument. 3,469,645, 9-30-69, Cl. 177-210.
Provident National Bank: *See—*
Roemer, Henry C.,3,446,264.

Provos, John R., Jr.: *See*—
Pratt, Leonard C.; Provos, John R., Jr.; and De Carteret, James Alfred,3,440,465.
Provost, Richard H.; Bartlo, John S.; and Hoppe, William, to Package Machinery Company. Transfer conveyor apparatus for candy bars and the like. 3,429,416, 2-25-69, Cl. 198-20.
Proxmire, Harry J.: *See*—
Helberg, Henry J.; and Proxmire, Harry J.,3,480,897.
Proxmire, Harry J., to General Electric Company. Adjustable sliding brush transformer and method of producing a brush track therefor. 3,478,290, 11-11-69, Cl. 336-149.
Prozeller, Paul E., to Bell Telephone Laboratories, Incorporated. Balanced to unbalanced transistor amplifier. 3,443,237, 5-6-69, Cl. 330-14.
Prozorova, Nina Dmitrievna: *See*—
Gutterman, Kirill Davidovich; Prozorova, Nina Dmitrievna; Svenchansky, Alexandr Danilovich; and Smelyansky, Matvei Yakovlevich,3,473,105.
Prsson, Sen I., to General Signal Corporation. Ultrasonic vehicle presence detector. 3,435,405, 3-25-69, Cl. 340-1.
Prucha, Richard V.: *See*—
Boswell, James M., Jr.; Fitzmayer, Louis H.; and Prucha, Richard V.,3,439,144.
Pruckmayr, Gerfried; and Victorius, Claus, to Du Pont de Nemours, E. I., and Company. Diimide-diesters of tricarboxylic anhydrides. 3,461,136, 8-12-69, Cl. 260-326.
Prucnal, Paul J.: *See*—
Gerhart, Howard L.; Wismer, Marco; and Prucnal, Paul J.,3,442,839.
Prucnal, Paul J.; Wismer, Marco; and Christenson, Roger M., to PPG Industries, Inc. Graft copolymers of unsaturated hydrocarbon interpolymers. 3,483,273, 12-9-69, Cl. 260-878.
Wismer, Marco; and Prucnal, Paul John,3,484,335.
Prueter, Elton D.; and Walles, Wilhelm E., to Dow Chemical Company, The. Electroless coating of cobalt and nickel. 3,472,665, 10-14-69, Cl. 106-1.
Pruett, Bumon J.; and Palmer, Euple I. Apparatus for testing a pressure responsive instrument. 3,472,059, 10-14-69, Cl. 73-4.
Pruett, George R., to Texas Instruments, Incorporated. P-N photocell epitaxially deposited on transparent substrate and method for making same. 3,436,549, 4-1-69, Cl. 250-211.
Pruett, James A.: *See*—
Stewart, Katherine Ferguson; and Pruett, James A.,3,457,172.
Pruett, Kenneth Max, to Pemberton, J. C. Multi-throw valve. 3,451,428, 6-24-69, Cl. 137-625.46
Pruett, Roy L.; and Rick, Edward A., to Union Carbide Corporation. Oligomers of bicycloheptadiene. 3,440,294, 4-22-69, Cl. 260-666.
Pruett, Roy L.: *See*—
Rick, Edward A.; and Pruett, Roy L.,3,458,550.
Pruett, William T.; and Crownover, William S., to United States of America, Army. Mechanical flaw indenting device. 3,474,665, 10-28-69, Cl. 73-81.
Pruiksma, Arthur B.: *See*—
Romanick, John F.; and Pruiksma, Arthur B.,3,466,256.
Romanick, John F.; and Pruiksma, Arthur B.,3,475,362.
Pruim, Fred: *See*—
La Mar, William F.; and Pruim, Fred,3,481,286.
Prunenal, Paul J., to PPG Industries, Inc.Low molecular weight olefin interpolymers prepared in the presence of bicyclo[2.3.1] hepta-2,5-diene. 3,467,637, 9-16-69, Cl. 260-80.78
Prunty, Ralph A.: *See*—
Motto, John W., Jr.; Fry, Warren C.; and Prunty, Ralph A.,3,461,319.
Prupis, Robert I. Self-correcting dispensing mixer. 3,421,745, 1-14-69, Cl. 261-35.
Pruss, Anatoly Isaakovich: *See*—
Zhezmer, Boris Yakovlevich; Pak, Iosif Ivanovich; and Pruss, Anatoly Isaakovich,3,436,702.
Prussin, Sam; and Florian, John, to Rexall Drug and Chemical Company. Multiple compartment collapsible tubes. 3,442,424, 5-6-69, Cl. 222-81.
Prussin, Samuel B.: *See*—
Lieberman, George; Palmer, Milton; and Prussin, Samuel B.,3,479,427.
Prvni Brnenska Strojirna Zavody Klementa Gottwalda, narodni podnik: *See*—
Hojnos, Jan; and Grancic, Ivan, 3,471,263.
Pryce, Vaughn K. Detachable handles. 3,422,485, 1-21-69, Cl. 16-114.
Pryde, Everett H.: *See*—
Davison, Verle L.; Pryde, Everett H.; and Moore, Danny J.,3,485,028.
Pryer, Walter Reading, to Imperial Chemical Industries Limited. Rigid compositions comprising polyvinyl chloride, calcium carbonate and an oxide or hydroxide. 3,446,765, 5-27-69, Cl. 260-23.
Prym, Hans A., to Prym, William, Inc. Snap fastener. 3,457,601, 7-29-69, Cl. 24-113.
Prym, Hans A.; and Derr, Chester B., to Prym, William, Inc. Adjustable buckles, fasteners and the like. 3,452,402, 7-1-69, Cl. 24-75.
Prym, William, Inc.: *See*—
Prym, Hans A.; and Derr, Chester B., 3,452,402.
Prym, Hans A., 3,457,601.
Salzer, George W.; Derr, Chester B.; and Cristina, Joseph F., 3,421,615.
Pryor, Glenn G., to Varian Associates, mesne. Coaxial magnetron having a segmented ring slot mode absorber. 3,471,744, 10-7-69, Cl. 315-39.77
Pryor, Harry H., to UMC Industries, Inc. Cabinet with casters and leveling means. 3,482,894, 12-9-69, Cl. 312-250.
Pryor, Harry H.; Kessler, Arthur R.; Blacklock, Arthur G.; Neumann, Charles G.; Short, William H.; and Modjeski, Richard N., to UMC Industries, Inc. Hot beverage merchandizer. 3,446,137, 5-27-9, Cl. 99-289.
Pryor, James N.; and Wunderlich, Orville A., to Grace, W. R., & Co. Reduction of nitrobenzene. 3,472,897, 10-14-69, Cl. 260-580.
Pryor, John A.; and Bolez, Carl A., to Air Products and Chemicals, Inc. Liquefaction of natural gas employing cascade refrigeration. 3,440,828, 4-29-69, Cl. 62-27.
Pryor, John A.; Frazier, Chester J., Jr.; Smith, Lawrence L.; and Stanzione, John A., to Shell Oil Company. Low-temperature packer. 3,438,442, 4-15-69, Cl. 166-303.
Pryor, Michael J.: *See*—
Caule, Elmer J.; Pryor, Michael J.; and Sperry, Philip R.,3,475,227.
Pryor, Michael J., to Olin Mathieson Chemical Corporation. Process for obtaining aluminum alloy conductors. 3,464,866, 9-2-69, Cl. 148-12.7
Pryor, Michael J., to Olin Mathieson Chemical Corporation. Composite fin stock material. 3,480,411, 11-25-69, Cl. 29-191.
Pryor, Michael J.; and Slusar, Richard J., to Olin Mathieson Chemical Corporation. Enhanced structural uniformity of aluminum based alloys by thermal treatments. 3,486,947, 12-30-69, Cl. 148-11.5
Pryor, Paul D.: *See*—
Lewis, Richard; and Pryor, Paul D.,3,436,999.
Pryor, Richard L., to RCA Corporation. Integrated memory system. 3,460,094, 8-5-69, Cl. 340-172.5
Pryor, Timothy R. Method and apparatus for detecting spatial relationships and for determining properties derived therefrom. 3,458,257, 7-29-69, Cl. 356-32.
Pryshlak, Alexander, to Pratt & Whitney Inc. Aligning of guide V-rails. 3,484,944, 12-23-69, Cl. 33-181.
Pryzybylski, Daniel F., to Warner & Swasey Company, The. Material handling machine. 3,441,154, 4-29-69, Cl. 214-138.
Przybyszewski, Benjamin M.: *See*—
Freise, William G.; and Przybyszewski, Benjamin M.,3,421,430.
Psaar, Hubertus: *See*—
Weissel, Oskar; Raue, Roderich; and Psaar, Hubertus,3,441,563.
Ptacek, Edward A.; and Garrett, David E., to Nalco Chemical Company. Gasoline inhibited against emulsion formation. 3,424,565, 1-28-69, Cl. 44-62.
Ptacek, James F.: *See*—
Patterson, Robert E.; and Ptacek, James F.,3,428,157.
Patterson, Robert E.; and Ptacek, James F.,3,472,351.
Ptak, Wilbur F., to Fastway Fasteners, Inc. Suspension clips. 3,463,432, 8-26-69, Cl. 248-228.
Ptak, Wilbur Frank, to Fastway Fasteners, Inc. Combination sheet metal washer and nut. 3,422,722, 1-21-69, Cl. 85-32.
Ptasienski, Mitchell P.: *See*—
Disney, Virgil V.; and Ptasienski, Mitchell P.,3,435,582.
Publication Corporation: *See*—
Behringer, Alfred C., 3,438,624.
Publicon AG: *See*—
Aechter, Christian, 3,436,766.
Publow, Harry F.: *See*—
Woodruff, Stanley Ray, 3,472,415.
Pucel, Edward L.: *See*—
Schmidt, Edward C., 3,434,612.
Pucher, Walter, to Allmanna Svenska Elektriska Aktiebolaget. High voltage gas blast circuit breaker. 3,420,972, 1-7-69, Cl. 200-148.
Puckett, William R.: *See*—
Olliff, Martin T., Jr.; and Puckett, William R.,3,455,579.
Olliff, Martin T., Jr.; Williams, Charles F.; Hagler, Travis J.; and Puckett, William R.,3,446,022.
Puckhaber, Edmund C. Dunnage device. 3,462,027, 8-19-69, Cl. 214-10.5
Puczynski, Stanley, 50% to Cukale, Edward. Flush sliding door construction. 3,475,860, 11-4-69, Cl. 49-129.
Puderbach, Gerhard, to Winkler, Richard, and Dunnebier, d/b/a Winkler & Dunnebier. Machine for confectionery manufacture. 3,429,466, 2-25-69, Cl. 214-306.
Puechberty, Lucien P.: *See*—
Cambornac, Michel J.; Chazot, Jean J.; and Puechberty, Lucien P.,3,438,489.
Puerckhauer, Gerhard W. R.; Sagawa, Burt K.; and Wittnebel, Bruce W., to Minnesota Mining and Manufacturing Company. Image receptor sheets containing organic silver salts and metal ion image. 3,460,946, 8-12-69, Cl. 96-94.
Puerto Rico, The People of: *See*—
Castro, Fernando J., 3,477,756.

Puetz, Jordan F., to Square D Company. Interlock structure for two manually operated toggle switches. 3,432,628, 3-11-69, Cl. 200-50.
Puetz, Jordan F., to Square D Company. Manually operated switch. 3,432,787, 3-11-69, Cl. 337-153.
Puetz, William J. Ski attachment for snowmobiles. 3,482,849, 12-9-69, Cl. 280-28.
Pugach, Joseph, to Halcon International, Inc. Purification of terephthalonitrile by azeotropic distillation with ethylene glycol. 3,468,763, 9-23-69, Cl. 203-48.
Pugach, Joseph, to Halcon International, Inc. Process for the conversion of nitriles to esters. 3,468,930, 9-23-69, Cl. 260-475.
Pugatch, David, to Fisher Berkely Corporation. Intercommunications system. 3,478,176, 11-11-69, Cl. 179-39.
Pugh, Billy Gene. Personnel recovery net. 3,421,165, 1-14-69, Cl. 9-14.
Pugh, Billy Gene. Jungle recovery device. 3,476,339, 11-4-69, Cl. 244-137.
Pugh, Clyde C.: *See—*
Clark, Frank E.; Pugh, Clyde C.; and von Konsky, Robert H.,3,430,416.
Pugh, Donald J.; and Knisley, Bill C., to Stromberg-Carlson Corporation. Character generator. 3,441,768, 4-29-69, Cl. 31 3-68.
Pugh, Donald J.: *See—*
Murdock, Clayton E.; Pugh, Donald J.; and Compton, Robert H.,3,421,044.
Pugh, Lloyd R. Ice making apparatus. 3,423,952, 1-28-69, Cl. 62-138.
Pugh, William A. G.; and Moore, Stuart F., to General Mills, Inc. Doll having universally movable limbs. 3,466,793, 9-16-69, Cl. 46-161.
Pugh, William A., Sr. Container with tear out closure. 3,425,591, 2-4-69, Cl. 220-54.
Pugin, Andre: *See—*
Burdeska, Kurt E.; von der Crone, Jost; Menasse, Raphael; and Pugin, Andre,3,424,767.
Pugin, Andre; Burdeska, Kurt E.; and Staub, Alfred, to Geigy, J. R., A.G. Tetrahalogeno isoindoline pigments. 3,483,213, 12-9-69, Cl. 260-326.1
Pugin, Andre; Burdeska, Kurt E.; and Staug, Alfred, to Geigy, J. R., A.G. Tetrahalogeno isoindoline pigments. 3,484,454, 12-16-69, Cl. 260-326.1
Pugliarissi, Andrew S., to Philco-Ford Corporation. Etching solution. 3,467,599, 9-16-69, Cl. 252-79.2
Pugsley, Vern W.; Barhorst, Alphonso F.; and Brown, Richard H. Retractable windshield cover. 3,454,300, 7-8-69, Cl. 296-95.
Puhm, Helmut, to AGA-ELBAB Batteriewerke Gesellschaft m.b.H. Method for arranging a plurality of platelike elements from different supplies in a predeter- mined sequence. 3,443,706, 5-13-69, Cl. 214-152.
Puhringer, Othmar; and Gruber, Heinz, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Metallurgical vessel, such as a crucible or converter. 3,477,706, 11-11-69, Cl. 266-36.
Puhringer, Othmar; and Patuzzi, Alexander, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Converter assembly. 3,460,820, 8-12-69, Cl. 266-35.
Puidak, Heino, to Magnaflux Corporation. Eddy current testing system having lift-off compensation, and utilizing a tuned plate-tuned grid oscillator. 3,449,661, 6-10-69, Cl. 324-34.
Puig, John E.: *See—*
Cohen, Stanley I.; and Puig, John E.,3,457,203.
Puister, Willem: *See—*
Noordermeer, Aart; Puister, Willem; and Wesselman, Petrus Geradus Johannes,3,475,506.
Pulaski, John W., to Westinghouse Electric Corporation. Method of applying foam insulation to a refrigerator cabinet. 3,444,280, 5-13-69, Cl. 264-45.
Pulcifer, Carl W. Baseball game apparatus. 3,428,317, 2-18-69, Cl. 273-88.
Puleo, Elio J.: *See—*
Kite, Charles Kenneth; and Puleo, Elio J.,3,438,642.
Puletti, Paul P.; and Gardner, Jack H., to Union Carbide Corporation. Olefin polymer compositions containing ethylene oxide polymers having a molecular weight of from 100,000 to 10 million. 3,425,981, 2-4-69, Cl. 260-41.
Puljer, Philip F.: *See—*
Calderhead, Henry J.; and Puljer, Philip F.,3,447,082.
Puljer, Philip F., to Bird Electronic Corporation. Sub-miniature coupler. 3,475,701, 10-28-69, Cl. 333-10.
Pullen, Cecil V.; and Kaiser, Frederick A., to Bendix Corporation, The. Combined pressure regulator and relief valve. 3,460,559, 8-12-69, Cl. 137-116.5
Pullen, Charles R., to McDonald, A. Y., Mfg. Co. Gasoline storage tank vent. 3,439,831, 4-22-69, Cl. 220-44.
Pullen, Keats A., Jr., to United States of America, Army. Chopper stabilized amplifer. 3,471,687, 10-7-69, Cl. 235-183.
Pulley, James A.: *See—*
Fall, Herbert S.; Harrell, James M.; Pulley, James A.; Vaughn, Lawrence M.; York, William D.; and Young, Wayne H.,3,450,446.
Pulliam, George R., to North American Rockwell Corporation. Spinel ferrite epitaxial composite. 3,421,933, 1-14-69, Cl. 117-121.
Pulliam, Richard D.: *See—*
Davis, Buell L.; and Pulliam, Richard D.,3,467,293.
Pullman Incorporated: *See—*
Adler, Franklin P., 3,450,278.
Aquino, Herman A.; Ferris, Ray L.; Mundinger, William A.; and Schuller, James J., 3,471,044.
Austgen, Kenneth J., 3,420,193.
Bailey, John D., 3,452,481.
Berry, Arthur L., 3,485,184.
Bostwick, Louis E.; and Mandelik, Bernard G., 3,432,264.
Carr, George W., 3,453,019.
Carr, George W., 3,485,523.
Carr, Gorge W., 3,454,172.
Chermely, Leslie A., 3,428,301.
Eschenbrenner, Gunther P.; and Honigsberg, Charles A., 3,475,136.
Finneran, James Ambrose; and Mayo, Hayes Claude, 3,484,197.
Glassmeyer, John J., 3,456,829.
Gooding, Arnold, 3,460,659.
Gramse, Harold E., 3,447,336.
Gramse, Harold E., 3,464,222.
Gutridge, Jack E., 3,429,281.
Gutridge, Jack E., 3,444,824.
Heffner, George R., 3,470,058.
Heinemann, Heinz; and Miller, Kenneth D., Jr., 3,461,180.
Hitch, Robert A., 3,472,728.
Jongenburger, Huibert S.; Van Hook, James P.; and Van Dijk, Christiaan P., 3,449,079.
Kaess, David, Jr., 3,447,598.
Kutch, Leonard P., 3,447,703.
Le Duc, Joseph Adrien M., 3,427,235.
Leduc, Joseph Adrien M., 3,421,994.
Martin, John J., 3,425,576.
Martin, John J., 3,432,131.
Martin, John J., 3,450,415.
Martin, John J., 3,454,173.
McMahon, Joseph F.; and Milliken, Thomas H., 3,476,536.
Miller, Roy W.; and Frageman, Donald L., 3,438,513.
Miller, Roy W., 3,446,374.
Miller, Roy W., 3,474,920.
Nagy, Ernest J., 3,451,726.
Nagy, Ernest John, 3,445,140.
Peterson, William H., 3,468,433.
Pfeiffer, Robert W.; and Garrett, Luther W., Jr., 3,421,884.
Rutkoski, Joseph E., 3,442,224.
Shaver, William R., 3,459,317.
Stark, Marvin, 3,422,772.
Suriani, Ernesto, 3,472,648.
Suvada, Steve L.; and Snyder, Richard C., 3,429,089.
Szala, Norman M., 3,470,829.
Thompson, Earl L., 3,458,054.
Turnbull, Donald M., 3,446,692.
Van Dijk, Christiaan P.; Van Hook, James P.; and Jongenburger, Huibert S., 3,451,776.
van Dijk, Christiaan P., 3,472,902.
Wille, Herbert S.; Branson, Theodore A.; and Matushek, John W., 3,437,055.
Wille, Herbert S., 3,484,124.
Willis, Flake, 3,438,519.
Pullman Incorporation: *See—*
Abidi, Farsheed, 3,460,785.
Pullmax Aktiebolag: *See—*
Nicklasson, Sven, 3,426,635.
Nicklasson, Sven M. A., 3,481,236.
Pullos, Vlash A., to North American Rockwell Corporation. Underwater vehicles. 3,439,537, 4-22-69, Cl. 73-170.
Pullum, Geoffrey George: *See—*
Butcher, John Anthony Weeks; Pullum, Geoffrey George; and Willson, Michael John,3,433,902.
Pulp and Paper Research Institute of Canada: *See—*
Bryce, John R. G.; and Kleinert, Theodor N., 3,448,002.
Liebergott, Norman; and Yorston, Frederic H., 3,472,731.
May, William Donald, 3,434,670.
Pulp Chemicals Association: *See—*
Bolger, Justin C.; and Michaels, Alan S., 3,449,313.
Puls, Walter: *See—*
Kabbe, Hans-Joachim; and Puls, Walter,3,475,450.
Pulse Communications, Inc.: *See—*
Britt, James Edward, 3,421,021.
Pulskamp, Gerald S.; and Harshbarger, William E., to Crown Controls Corporation. Reversible electric motor speed control. 3,465,841, 9-9-69, Cl. 180-65.
Pulvari, Charles F. Ohmic contact to a substrate of insulating material having a doped semiconductive oxide pro- viding a stepped energy gap. 3,443,170, 5-6-69, Cl. 317-234.
Pulvari, Charles F. Ferrielectric devices. 3,476,951, 11-4-69, Cl. 307-88.

Pulverizing Machinery, division of Slick Industrial Company: *See*—
Sheldon, William M., 3,436,025.
Pum, Franz, to Clairol Incorporated. Dyeing human hair with 1-azaanthraquinones. 3,449,056, 6-10-69, Cl. 8-10.1
Puma, John. Brake lining wear detector. 3,479,640, 11-18-69, Cl. 340-69.
Pumpelly, Charles T.; Pedjac, Joseph J.; and Larsen, Eric R., to Dow Chemical Company, The. Stabilization of haloalkanes. 3,454,658, 7-8-69, Cl. 260-652.5
Pumpelly, Charles T.; Pedjac, Joseph J.; and Somerville, John S., to Dow Chemical Company, The. Shaped articles made from acrylonitrile and neopentyl tribromo acrylates. 3,480,600, 11-25-69, Cl. 260-85.5
Pumpelly, Robert C.: *See*—
Kilgore, Marion D.; and Pumpelly, Robert C.,3,434,538.
Pun, Lucas: *See*—
Bonna, Louis; and Pun, Lucas,3,453,055.
Punderson, John Oliver: *See*—
Magner, Lowell Max; and Punderson, John Oliver,3,484,503.
Punderson, John O., to Du Pont de Nemours, E. I., and Company. Apparatus for electrical surface treatment of polymeric wire insulations. 3,472,756, 10-14-69, Cl. 204-312.
Pungor, Erno; Havas, Jeno; Toth, Klara; and Madarasz, Geza, to Metrimpex Magyar Muszeripari Kulkereskedelmi Vallalat. Heterogeneous selective membranes. 3,446,726, 5-27-69, Cl. 204-296.
Pungs, Wolfgang; Buning, Robert; and Diessel, Karlheinz, to Dynamit Nobel Aktiengesellschaft. Phonograph record molding compositions comprising chlorine-containing terpolymers. 3,481,893, 12-2-69, Cl. 260-23.
Pungs, Wolfgang: *See*—
Schneider, Johannes; and Pungs, Wolfgang,3,449,299.
Punnett, Frazer D.: *See*—
Adamek, John A.; Fantuzzo, Joseph; and Punnett, Frazer D.,3,449,548.
Caldwell, John P.; and Punnett, Frazer D.,3,454,335.
Punt, William, to Lear Siegler, Inc. Self-leveling scorsby machine. 3,426,577, 2-11-69, Cl. 73-1.
Purcell, Chester L.; and Imhof, Lawrence G., to Union Carbide Corporation. Method for packaging food products. 3,423,212, 1-21-69, Cl. 99-171.
Purcell, Chester L.: *See*—
Walter, Andrew T.; Bryant, George M.; and Purcell, Chester L.,3,472,825.
Purcell, Ernest. Electric welding gun. 3,484,646, 12-16-69, Cl. 314-5.
Purcell, John R.; and Brooks, John M., to United States of America, Atomic Energy Commission. Method for evaluating the stability and operating characteristics of composite superconductors. 3,428,891, 2-18-69, Cl. 324-64.
Purcell, Ronald: *See*—
Taylor, John; and Purcell, Ronald,3,479,273.
Purcell, Thomas H., Jr., to ESB Incorporated, mesne. Vent system for deferred action battery. 3,483,044, 12-9-69, Cl. 136-177.
Purdie, Clarence E. Cartridge case resizing and bullet seating apparatus. 3,440,923, 4-29-69, Cl. 86-43.
Purdue Frederick Company, The: *See*—
Sasmor, Ernest J., 3,422,186.
Sasmor, Ernest J., 3,445,571.
Purdue Research Foundation: *See*—
Army, Thomas J.; and Ohlrogge, Alvin J., 3,459,532.
Bachman, Gustave Bryant; and Whitehouse, Maynard Lester, 3,428,663.
Bachman, Gustave Bryant; and Connon, Neil W., 3,461,178.
Chua, Leon O., 3,454,908.
Feure, Henry; and Hall, Albert M., 3,470,253.
Mc Bee, Earl T., 3,433,876.
Purdy, Bruce B., to Appleton Wire Works Corporation. Coated papermaking wire. 3,425,900, 2-4-69, Cl. 162-348.
Purdy Co., The: *See*—
Persky, Nathan N., 3,486,704.
Purdy, Francis W.: *See*—
Butler, Arthur W.; Purdy, Francis W.; and Meyer, Charles J.,3,462,087.
Purdy, Frederick A. Reversible door operator switch. 3,444,344, 5-13-69, Cl. 200-153.
Purdy, Frederick A. Door operator. 3,481,387, 12-2-69, Cl. 160-188.
Purdy, Geoffrey; and Walton, George N., to Bridge, David & Company Limited. Machine for making cables or ropes. 3,429,115, 2-25-69, Cl. 57-52.
Purdy, Glendon M. Land surface shaping apparatus. 3,444,935, 5-20-69, Cl. 172-780.
Pure Air Mufflers, Inc.: *See*—
Bjork, Gust H., 3,425,216.
Pure Chemicals Limited: *See*—
Oakes, Vincent; Hutton, Ronald Eric; and Tonge, Brian Lawrence, 3,448,130.
Pure, Samuel; and Wallace, John D., to United States of America, Navy. Underwater acoustic navigation system. 3,469,229, 9-23-69, Cl. 340-3.
Puretic, Mario J. Rake attachment for a garden tractor. 3,438,183, 4-15-69, Cl. 56-27.
Puretic, Mario J. Marine propulsion unit. 3,469,558, 9-30-69, Cl. 115-41.
Puretic, Mario J. Net retriever apparatus. 3,469,819, 9-30-69, Cl. 254-137.
Purex Corporation, Ltd.: *See*—
Black, Ernest L., 3,425,335.
Buist, Daniel T., 3,437,521.
Jackson, Clark E., 3,460,482.
Jackson, Clark E., 3,474,968.
Redemann, Clio Ernst; and Seybert, Robert A., 3,436,959.
Thompson, Robert D., 3,464,084.
Wade, Charles E., 3,451,554.
Yatuni, Raymond A., 3,426,773.
Purington, Ronald G.: *See*—
Stromswold, Chester; and Purington, Ronald G.,3,465,345.
Purkhiser, Rawlins E., to Air Reduction Company, Incorporated. Stabilization of servosystem against backlash. 3,439,554, 4-22-69, Cl. 74-409.
Purnaiya, Gopal M.; Archer, John A.; and Gibbons, James F., to Fairchild Camera and Instrument Corporation. Broadband amplifier with semiconductor interstage element. 3,483,477, 12-9-69, Cl. 330-31.
Purney, John E., Sr. Back pack boat. 3,453,669, 7-8-69, Cl. 9-2.
Purnhagen, Heinz Wilhelm, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Circuit arrangement for echo sounders. 3,460,059, 8-5-69, Cl. 340-3.
Puro, Inder Kumar. Electropneumatic vigilance control system. 3,478,201, 11-11-69, Cl. 246-1.
Purolator Products, Inc.: *See*—
Engstrom, Arthur H., 3,468,425.
Ludvig, Ernest; and Tull, Vernon M., 3,455,455.
Torres, Jorge, 3,438,657.
Puromatic, Inc.: *See*—
Miller, Francis A., 3,455,803.
Purper, Robert L., to Bendix Corporation, The, and Vulcanized Rubber and Plastics Company. Resinous material, intermediate and processes of making them. 3,428,581, 2-18-69, Cl. 260-5.
Purps, Heinz Dieter: *See*—
Kiesow, Helmut; and Purps, Heinz Dieter,3,453,454.
Purpuri, Rosario A.: *See*—
Stern, Robert; and Purpuri, Rosario A.,3,478,370.
Purrer, Josef; and Maier, Martin, to Maschinenfabrik Fahr Aktiengesellschaft. Plural rake haying machine with means for adjusting width of swath. 3,475,890, 11-4-69, Cl. 56-370.
Purrmann, Robert: *See*—
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf,3,453,242.
Purse, John H., to Union Carbide Corporation. Method for improving fabric strength in wash and wear treatments. 3,472,610, 10-14-69, Cl. 8-120.
Purser, Kenneth H., to High Voltage Engineering Corporation. Particle acceleration tube having electric field control means. 3,423,684, 1-21-69, Cl. 328-233.
Pursiano, Leonard C.: *See*—
Cohen, Arnold H.; and Pursiano, Leonard C.,3,465,334.
Purtell, Rufus J., to Tri-Matic Inc., mesne. Automatic irrigator. 3,444,941, 5-20-69, Cl. 137-14.
Purtle, Russell W. Shoe attachment. 3,486,250, 12-30-69, Cl. 36-72.
Purucker, Donald; and Hartwig, Walter J., to Allis-Chalmers Manufacturing Company. Controlled atmosphere rotary furnace. 3,441,257, 4-29-69, Cl. 263-12.
Purvey, Ronald James, to Rank Organiyation Limited, The. Slide projector focusing mechanism. 3,442,577, 5-6-69, Cl. 350-255.
Purvinis, Richard F.: *See*—
Cloud, Charles E.; and Purvinis, Richard F.,3,453,799.
Purvis, George A.: *See*—
Billerbeck, Fred W.; Hing, Francisco S.; and Purvis, George A.,3,429,711.
Purzycki, Alfred Z., to Teletype Corporation. RF isolation relay. 3,439,303, 4-15-69, Cl. 335-154.
Pusateri, Anthony J., Jr., to Lockheed Aircraft Corporation. Coupling. 3,434,096, 3-18-69, Cl. 339-44.
Pusch, Gunter: *See*—
Enders, Heinz; and Pusch, Gunter,3,432,553.
Pusch, Walter George, to Johns-Manville Corporation. Hot top with insertable protective liner. 3,484,073, 12-16-69, Cl. 249-201.
Puschel, Walter: *See*—
Lassig, Wolfgang; Riebel, Alexander; Puschel, Walter; and Himmelmann, Wolfgang,3,480,431.
Nittel, Fritz; Meckl, Heinz; Puschel, Walter; and Ulrich, Hans,3,437,483.
Puschel, Walter; and Schranz, Karl-Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Photographic couplers. 3,457,077, 7-22-69, Cl. 96-100.
Puschel, Walter; and Schranz, Karl-Wilhelm, to Agfa Aktiengesellschaft. Production of colored direct positive photographic images. 3,467,520, 9-16-69, Cl. 96-53.

Puschel, Walter; Schranz, Karl-Wilhelm; Lassig, Wolfgang; Marx, Paul; and Credner, Hans-Heinrich, to Agfa-Gevaert Aktiengesellschaft. Colored photographic direct positive images. 3,443,942, 5-13-69, Cl. 96-20.
Puschmann, Sigfrid: *See*—
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid,3,470,152.
Puschner, Herbert A., to Atlas-Werke Aktiengesellschaft. Apparatus for the sterilizing of products. 3,481,266, 12-2-69, Cl. 99-253.
Puschner, Herbert August. Device for heating nonmetallic materials, more particularly foodstuffs, by microwave energy in a cavity resonator. 3,436,507, 4-1-69, Cl. 219-10.55
Puschner, Herbert August. Apparatus for heating nonmetallic substance, particularly foodstuffs, by microwave energy. 3,443,050, 5-6-69, Cl. 219-10.55
Puschner, Herbert August. Apparatus for heating material by means of microwave device. 3,443,051, 5-6-69, Cl. 219-10.55
Puschner, Herbert August. Device for heating non-metallic material. 3,471,671, 10-7-69, Cl. 219-10.55
Puschner, Herbert August. Devices for heating non-metallic materials in an electromagnetic radiation field. 3,474,208, 10-21-69, Cl. 219-10.55
Puskar, Victor: *See*—
Cecil, Tom A.; Gerstenmier, Harold J.; Hamill, Herbert R.; and Puskar, Victor,3,477,565.
Puskas, Imre; and Fields, Ellis K., to Standard Oil Company (Indiana). Polyalkylbiphenyls and process of preparing same. 3,446,864, 5-27-69, Cl. 260-668.
Puster, Louis M., to Reynolds Metals Company, mesne. Liquid dispenser and charging gas container therefor. 3,433,389, 3-18-69, Cl. 222-3.
Puster, Louis M., to Reynolds Metals Company, mesne. Pressure regulator construction. 3,460,555, 8-12-69, Cl. 137-12.
Pusztai, Tibor G.: *See*—
Barton, Oliver A.; and Pusztai, Tibor G.,3,422,067.
Barton, Oliver A.; and Pusztai, Tibor G.,3,464,940.
Puta, Ruben W., to Stoelting Brothers Company. Product pusher assembly for processing vat. 3,476,272, 11-4-69, Cl. 214-17.
Puta, Ruben W.; and Stoelting, Carl R., to Stoelting Brothers Company. Freezer with remote refrigerated supply and delivery and cooling conduit therefor. 3,462,968, 8-26-69, Cl. 62-348.
Putch, Samuel W., to FMC Corporation. Well casing hanger. 3,420,308, 1-7-69, Cl. 166-208.
Putch, Samuel W.; and Eckert, Lawrence A., to FMC Corporation. Well apparatus. 3,424,477, 1-28-69, Cl. 285-18.
Puteick, Johann J.: *See*—
Braun, Reinhold; and Puteick, Johann J.,3,482,053.
Putetti, Anthony M., to Textron Inc. Method of making set screws. 3,477,075, 11-11-69, Cl. 10-10.
Puthet, Robert Raphael: *See*—
Dunogues, Jacques Paul; Lefort, Marcel Joseph Celestin; and Puthet, Robert Raphael,3,445,200.
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael,3,432,537.
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael,3,448,135.
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael,3,484,469.
Putman, James A. Restraint device. 3,467,337, 9-16-69, Cl. 242-107.4
Putman, Richard E. J., to Westinghouse Electric Corporation. Fluid transfer control apparatus. 3,466,641, 9-9-69, Cl. 340-222.
Putman, Richard E. J., to Westinghouse Electric Corporation. Material sample transfer system. 3,468,166, 9-23-69, Cl. 73-421.
Putman, Richard E. J., to Westinghouse Electric Corporation. Froth height and liquid slurry level determination for a floatation cell. 3,474,902, 10-28-69, Cl. 209-1.
Putnam, Carl O., to Pfizer, Chas., & Co., Inc. Tetracycline recovery. 3,454,639, 7-8-69, Cl. 260-559.
Putnam, Charles W. Process of making concentrated phosphoric acid of improved clarity characteristics. 3,467,162, 9-16-69, Cl. 159-47.
Putnam, David F., to United Aircraft Corporation. Process of extracting potable water from urine. 3,428,535, 2-18-69, Cl. 204-149.
Putnam, Eric F.: *See*—
Deni, Frank; Putnam, Eric F.; and White, Lynn G.,3,461,762.
Putnam, Richard E., to Westinghouse Electric Corporation. Liquid metal sample retrieval device. 3,460,393, 8-12-69, Cl. 73-425.6
Putnam, Richard E.; Brecher, Lee E.; Archer, Dave H.; and Zahradnik, Ray L., to Westinghouse Electric Corporation. Heat balance control of a rotary kiln. 3,437,325, 4-8-69, Cl. 263-32.
Putner, Tony Ian: *See*—
English, James; Putner, Tony Ian; Watts, John Francis; and Hill, Jeremy Allan,3,445,673.
Putsch, H., & Company: *See*—
Bittner, Hans Joachim; and Jacobs, Lorenz, 3,471,281.
Putsch, Peter Ulrich; Werner, Paul; and Reinmoller, Gustav Adolf. Adjustable two part hinge fitting, especially for seats of a motor vehicle. 3,432,880, 3-18-69, Cl. 16-146.
Putsch, Peter Ulrich; Werner, Paul; and Reinmoller, Gustav Adolf. Hinge fitting for adjustably connecting a seat and a backrest to each other, especially for motor vehicles. 3,432,881, 3-18-69, Cl. 16-146.
Putt, James Ward. Cutting, crushing and screening mechanism. 3,442,459, 5-6-69, Cl. 241-85.
Putt, Joseph W.; and Chamberlain, Lamar E., to Non-Skid, Inc. Anti-skid device for vehicles. 3,482,617, 12-9-69, Cl. 152-214.
Putt Trac Golf, Inc.: *See*—
Donaldson, James E., 3,471,155.
Putter, Rolf: *See*—
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf,3,453,268.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf,3,459,744.
Dorlars, Alfons; Neuner, Otto; and Putter, Rolf,3,485,831.
Grigat, Ernst; and Putter, Rolf,3,428,636.
Grigat, Ernst; Schminke, Hans-Dieter; and Putter, Rolf,3,448,079.
Putterbaugh, James B.; and Wiser, Joseph E., to Mallory, P. R., & Co., Inc. Electromechanical means using a semiconductor. 3,466,464, 9-9-69, Cl. 307-246.
Putterman, Harry, to General Precision Systems Inc. Non-destructive read-out memory and constant current driver. 3,428,958, 2-18-69, Cl. 340-174.
Putterman, Harry, to General Precision Systems, Inc. Non-destructive read-out memory. 3,432,834, 3-11-69, Cl. 340-174.
Putyato, Jury Sergeevich; Medvedenko, Arkady Markovich; Martsinkevich, Alexandr Vladimirovich; and Ashurkov, Evstafy Borisovich. Plug-type connection. 3,487,352, 12-30-69, Cl. 339-66.
Putzig, Max. Apparatus for producing mineral wool. 3,469,960, 9-30-69, Cl. 65-15.
Puychevrier, Nicole M.; and Menoret, Maurice J. Manufacturing process of gallium-arsenide tunnel- diodes. 3,481,032, 12-2-69, Cl. 29-584.
Puzey, John Edwin: *See*—
Barnes, Stanley Charles; and Puzey, John Edwin,3,484,928.
PX Industries, Inc.: *See*—
MacDonald, Paul M., 3,471,111.
MacDonald, Paul M.; and MacDonald, Francis X., 3,471,112.
Pyankova, Tamara Ivanovna: *See*—
Vatmakher, Usher Abramovich; Tolstopyatova, Inga Alexandrovna; Shvartz, Yakov Iosifovich; and Pyankova, Tamara Ivanovna,3,467,862.
Pye, David J.: *See*—
Katzer, Melvin F.; and Pye, David J.,3,461,674.
Pye Limited: *See*—
Brittan, Kenneth Walter; and Speakman, Frank P., 3,473,895.
Daly, Edgar Frank; and Shrewsbury, Derek David, 3,441,349.
Pye, W. G., & Co., Ltd.: *See*—
Jenkins, Anthony, 3,475,964.
Pyke, Thomas R.: *See*—
Argoudelis, Alexander D.; and Pyke, Thomas R.,3,476,857.
Pyle-National Company, The: *See*—
Howard, John G., 3,455,580.
Little, Edmund J., 3,452,666.
Pyles, Harley G.; Albright, Charles D.; and Haun, Robert E. Universal drilling machine. 3,467,207, 9-16-69, Cl. 175-55.
Pylon Company Inc.: *See*—
Cooney, James S., 3,435,168.
Pymm, Edward. Outline image controlled glass blowing machine. 3,486,875, 12-30-69, Cl. 65-158.
Pyne, Arthur F. Construction of windows and the like. 3,486,288, 12-30-69, Cl. 52-732.
Pyne, Humphrey Walter; Horwood, Bruce; and Wilson, Robin Burnell, to National Research Development Corporation. Apparatus for gas filtration. 3,439,477, 4-22-69, Cl. 55-231.
Pyptiuk, Henryk, to British Aircraft Corporation Limited. Jet-propelled aeroplanes. 3,463,421, 8-26-69, Cl. 244-54.
Pyptiuk, Henryk, to British Aircraft Corporation (Operating) Limited. Jet-propelled aeroplanes. 3,482,804, 12-9-69, Cl. 244-53.
Pyrate Sales, Inc.: *See*—
Kennedy, Merritt T., Jr.; and Dineen, John, 3,460,988.
Pyro-Serv Instruments, Inc.: *See*—
Engelhard, William E., 3,430,856.
Pyronetics, Inc.: *See*—
Gordon, William, 3,474,809.
Pyrotel Corporation: *See*—
Poole, Richard R., 3,461,275.
Pyzel, Robert. Method of making a refractory grid for a fluidized solids reactor. 3,467,738, 9-16-69, Cl. 264-30.
Quaal, George J., to Dow Corning Corporation. Adducts of silicon hydride polysiloxanes and silanes having alkenyl radicals. 3,423,236, 1-21-69, Cl. 117-161.
Quaal, George J., to Dow Corning Corporation. Adducts of silicon hydride polysiloxanes and silanes having alkenyl radicals. 3,440,214, 4-22-69, Cl. 260-46.5

Quaal, George J., to Dow Corning Corporation. Adducts of silicon hydrides polysiloxanes and hydrolyzable silanes having alkenyl radicals. 3,455,878, 7-15-69, Cl. 260-46.5
Quaas, Joseph F., to Eutectic Welding Alloys Corporation. Method for producing carbide containing materials. 3,455,019, 7-15-69, Cl. 29-527.3
Quaas, Werner: *See—*
Degenhardt, Heinrich; and Quaas, Werner,3,444,984.
Quackenbush, Arthur B.: *See—*
Quackenbush, Robert C., 3,429,206.
Quackenbush, Robert C., 3,429,230.
Quackenbush, Edward C., to Whitney Blake Company, The. Self-locking bottle cap. 3,422,978, 1-21-69, Cl. 215-9.
Quackenbush, Edward C., to Blake, Whitney, Company, The. Molded angle connector. 3,437,978, 4-8-69, Cl. 339-92.
Quackenbush, Edward Clarke, to Blake, Whitney, Company, The. Modular connector assembly for multiconductor communications cable. 3,474,384, 10-21-69, Cl. 339-36.
Quackenbush, John J.: *See—*
Corbett, Herbert O.; Quackenbush, John J.; and Newman, James B., Jr.,3,454,447.
Corbett, Herbert O.; Quackenbush, John J.; and Allen, Charles H.,3,471,606.
Quackenbush, John J., to National Distillers and Chemical Corporation. Centrifugal coating apparatus for coating interior surfaces of bodies. 3,472,201, 10-14-69, Cl. 118-308.
Quackenbush, John J.; and Corbett, Herbert O., to National Distillers and Chemical Corporation. Method and apparatus for producing a dust cloud. 3,472,430, 10-14-69, Cl. 222-193.
Quackenbush, John J.; and Corbett, Herbert O., to National Distillers and Chemical Corporation. Reciprocating multi-orificed internal die diverter. 3,473,193, 10-21-69, Cl. 18-13.
Quackenbush, John J.; and Corbett, Herbert O., to National Distillers and Chemical Corporation. Method for making a printed, multilayer tubina. 3,485,907, 12-23-69, Cl. 264-89.
Quackenbush, Robert C., 1/2 to Quackenbush, Arthur B. Right angle positive feed device. 3,429,206, 2-25-69, Cl. 77-34.7
Quackenbush, Robert C., 1/2 to Quackenbush, Arthur B. Fluid driven motor. 3,429,230, 2-25-69, Cl. 91-121.
Quade, Horst: *See—*
Kloess, Hans K.; and Quade, Horst,3,481,503.
Quadflieg, Therese: *See—*
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese,3,439,044.
Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese,3,470,230.
Quadrel, Louis: *See—*
Quadrel, Nicholas; and Quadrel, Louis,3,463,332.
Quadrel, Nicholas; and Quadrel, Louis. Bin assembly. 3,463,332, 8-26-69, Cl. 214-16.
Quaedvlieg, Mathieu: *See—*
Hendricks, Udo Winfried; Tamer, Ergun; Quaedvlieg, Mathieu; Klapper, Hans; Boehmke, Gunther; and Schneider, Otto,3,451,762.
Kirkschnek, Helmut; Von Finck, Georg; and Quaedvlieg, Mathieu,3,420,703.
Kirschnek, Helmut; and Quaedvlieg, Mathieu,3,451,844.
Kirschnek, Helmut; Lehmann, Wolfgang; and Quaedvlieg, Mathieu,3,441,435.
Kirschnek, Helmut; von Finck, Georg; and Quaedvlieg, Mathieu,3,467,487.
Quaine, Donna: *See—*
Quaine, Robert L.; Rhadigan, Clair J.; and Rhadigan, Sherwood T., 3,470,700.
Quaine, Robert L.; Rhadigan, Clair J.; and Rhadigan, Sherwood T., 1/6 to Quaine, Donna, and 1/6 to Rhadigan, Dorothy, and 1/6 to Rhadigan, Mary. Water turbulence producing air bubbling system for boat docks. 3,470,700, 10-7-69, Cl. 61-48.
Quaker Oats Company, The: *See—*
Brown, Lloyd H.; and Watson, David D., 3,448,069.
Dede, Joseph B., Jr., 3,441,528.
Dunlop, Andrew P.; and Sherman, Edward, 3,454,652.
Ensor, William L.; and Shaw, Joseph C., 3,458,625.
Frank, Walter K. H.; and Packer, Ray B., 3,439,792.
Hyldon, Roy G., 3,478,439.
Reinhart, Robert R., 3,462,277.
Qualcut Tools Limited: *See—*
Dickson, Donald John, 3,425,704.
Qualitrol Corporation: *See—*
Siri, Louis J.; and Embury, Philip W., Jr., 3,451,026.
Quality Components, Incorporated: *See—*
Cowles, Robert John, 3,435,496.
Quality Weaving Company: *See—*
Walker, Geoffrey Roy; and Roessel, Hilmar, 3,429,054.
Qualley, Ray W.; and Sartain, Everett L., to Modine Manufacturing Company. Apparatus for conditioning air. 3,474,720, 10-28-69, Cl. 98-33.
Qualls, Harold W., to General Dynamics Corporation. Noncontaminating linear explosive separation. 3,453,960, 7-8-69, Cl. 102-49.5
Quammen, Milton L.: *See—*
Cassidy, Patrick J.; and Quammen, Milton L.,3,431,043.
Quanbeck, Sherman H. Device for filling grain drills and the like. 3,439,819, 4-22-69, Cl. 214-508.
Quanbeck, Sherman H. Trip beam for implement. 3,468,382, 9-23-69, Cl. 172-264.
Quanquin, Bernard; Le Clerc, Georges Marie; and Pierre, Jean-Louis, to Potasse & Engrais Chimiques. Process and apparatus for granulating paste. 3,475,195, 10-28-69, Cl. 117-66.
Quantic Industries, Inc.: *See—*
Moulton, James I., 3,422,832.
Quantum Dynamics, Inc.: *See—*
Liu, Frederick F., 3,442,135.
Quantum Dynamics, Inc., (Elastronics Laboratories Division): *See—*
Liu, Frederick F.; and Berwin, Ted W., 3,421,077.
Quantum Engineering, Inc.: *See—*
Cohn, George I., 3,457,502.
Quantz, Paul A.: *See—*
Macon, Charles E.; Barton, Robert S.; Quantz, Paul A.; and Shimabukuro, George T.,3,487,375.
Quaranta, William: *See—*
Coccellato, Marco, 3,440,684.
Quartermain, Brian: *See—*
Harrison, James Arthur; and Quartermain, Brian,3,445,640.
Quartz & Silice S.A.: *See—*
George, Jean-Claude Henri, 3,467,511.
Quarve, Vernon K., to Eastman Kodak Company. Premelter. 3,441,013, 4-29-69, Cl. 126-343.5
Quarzlampen Gesellschaft mbH: *See—*
Roesler, Hans; and Eisermann, Bernhard R. R., 3,466,443.
Schaefer, Volker; and Schaefer, Juergen, 3,437,804.
Seitz, Ernst-Otto; Schafer, Volker; and Schafer, Juergen, 3,437,803.
Quate, Calvin F.: *See—*
Winslow, Donald K.; Shaw, Herbert J.; and Quate, Calvin F.,3,465,177.
Quateman, Joseph I.: *See—*
Hines, Walter; Bixby, William E.; and Quateman, Joseph I.,3,424,640.
Quatinetz, Max: *See—*
Weeton, John W.; Quatinetz, Max; and Orth, Norman W.,3,463,679.
Quatinetz, Max; Weeton, John W.; and Herbell, Thomas P., to United States of America, National Aeronautics and Space Administration. Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride. 3,472,709, 10-14-69, Cl. 148-126.
Quatredeniers, Claude: *See—*
Noirot, Michel; and Quatredeniers, Claude,3,479,928.
Quatrochi, Lyle W.: *See—*
Danner, Jefferson D.; and Quatrochi, Lyle W.,3,445,738.
Quatrochi, Lyle W.; and Danner, Jefferson D., to International Rectifier Corporation. Unitary full wave rectifier plate. 3,445,737, 5-20-69, Cl. 317-241.
Quayle, Jackson C.: *See—*
Amidon, Joseph C.; and Quayle, Jackson C.,3,474,995.
Quebec Iron and Titanium Corporation: *See—*
Raicevic, Dusan, 3,428,427.
Quebec North Shore Paper Company: *See—*
Hamilton, Douglas D., 3,482,611.
Quedens, Phillipp J.: *See—*
Burrows, Milford D.; and Quedens, Phillipp J.,3,447,577.
Queen, Henry Mack, to TRW Semiconductors, Inc. Low voltage avalanche process. 3,464,867, 9-2-69, Cl. 148-181.
Queen, William D., to Texas Instruments, Incorporated. Apparatus for holding silicon slices. 3,453,783, 7-8-69, Cl. 51-216.
Queneau, Paul E.: *See—*
Curlock, Walter; O'Neill, Charles E.; and Queneau, Paul E.,3,468,629.
Quenneville, Raymond N., to United Aircraft Corporation. Gear alignment means. 3,434,365, 3-25-69, Cl. 74-410.
Quenneville, Raymond N., to United Aircraft Corporation. Electrically operated clutch mechanism. 3,441,116, 4-29-69, Cl. 192-67.
Quenneville, Raymond N., to United Aircraft Corporation. Lubrication system. 3,463,269, 8-26-69, Cl. 184-6.
Quenneville, Raymond N., to United Aircraft Corporation. Actuator with stop therefor. 3,484,176, 12-16-69, Cl. 416-156.
Quenneville, Raymond N.; and Gaubis, Leonard L., to United Aircraft Corporation. Seal. 3,463,237, 8-26-69, Cl. 170-160.23
Quenot & Cie S.a.r.l.: *See—*
Quenot, Andre, 3,430,348.
Quenot, Andre, 3,435,529.
Quenot, Andre, 3,436,032.
Quenot, Andre, 3,437,281.
Quenot, Andre, 3,458,937.
Quenot, Andre, 3,459,298.
Quenot, Andre, 3,463,416.
Quenot, Andre, 3,473,235.
Quenot, Andre, 3,473,751.
Quenot, Andre, 3,473,754.

Quenot, Andre, to Quenot & Cie S.a.r.l. Linear measuring instruments. 3,430,348, 3-4-69, Cl. 33-138.
Quenot, Andre, to Quenot & Cie S.a.r.l. Linear measuring instrument. 3,435,529, 4-1-69, Cl. 33-138.
Quenot, Andre, to Quenot & Cie S.a.r.l. Simply assembled closing casing. 3,436,032, 4-1-69, Cl. 242-84.8
Quenot, Andre, to Quenot & Cie S.a.r.l. Tape reel. 3,437,281, 4-8-69, Cl. 242-84.8
Quenot, Andre, to Quenot & Cie S.a.r.l. Folding measuring instrument incorporating improved springs. 3,458,937, 8-5-69, Cl. 33-118.
Quenot, Andre, to Quenot & Cie S.a.r.l. Display package. 3,459,298, 8-5-69, Cl. 206-79.
Quenot, Andre, to Quenot & Cie S.a.r.l. Brake for linear measuring instrument having a metallic tape. 3,463,416, 8-26-69, Cl. 242-84.8
Quenot, Andre, to Quenot & Cie, S.a.r.l. End attachment for linear tape measures. 3,473,235, 10-21-69, Cl. 33-137.
Quenot, Andre, to Quenote & Cie, S.a.r.l. Quenot & Cie, S.a.r.l. Linear measuring instrument with driven measuring tape. 3,473,751, 10-21-69, Cl. 242-67.2
Quenot, Andre, to Quenot & Cie, S.a.r.l. Instrument casing with rotatable member. 3,473,754, 10-21-69, Cl. 242-84.8
Quenote & Cie, S.a.r.l.: *See*—
Quenot, Andre, 3,473,751.
Quentin, Lucien, 1/2 to Societe d'Etude de Constructions et de Travaux S.E.C.T.R.A. Method of constructing concrete buildings. 3,482,005, 12-2-69, Cl. 264-33.
Quercetti, Alessandro. Construction set with modular elements. 3,442,044, 5-6-69, Cl. 46-16.
Quercia, Marcel, to Societe Flaminaire Marcel Quercia. Recharge vessels for a liquified gas under pressure. 3,432,072, 3-11-69, Cl. 220-67.
Quercia, Marcel, to Societe Flaminaire Marcel Quercia. Plastic material lighter tanks for gases under pressure and methods of manufacturing such tanks. 3,464,578, 9-2-69, Cl. 220-3.
Querengasser, Hugo; Krause, Johannes; Frank, Klaus; and Cziska, Johann, to Knapsack Aktiengesellschaft. Process for the manufacture of ferrosilicon. 3,431,103, 3-4-69, Cl. 75-133.
Querfurt, Horst: *See*—
Meurer, Siegfried; Querfurt, Horst; and Herzog, Walter,3,420,216.
Querry, Merle Vernon, to American Cyanamid Company. Process for the purification of gamma globulin employing bentonite. 3,449,316, 6-10-69, Cl. 260-112.
Quesada, Camilo, to Universal Oil Products Company. Method of removing oxygen from closed containers and catalyst therefor. 3,437,425, 4-8-69, Cl. 23-2.
Quesada, Camilo, to Universal Oil Products Company. Method of removing oxygen from a confined zone and catalyst therefor. 3,437,426, 4-8-69, Cl. 23-2.
Quesada, Camilo, to Universal Oil Products Company. Oxygen scavenging from closed containers. 3,437,427, 4-8-69, Cl. 23-2.
Quesada, Camilo; and Neuzil, Richard W., to Universal Oil Products Company. Oxygen scavenging from closed containers. 3,437,428, 4-8-69, Cl. 23-2.
Quest, Karl; and Jordan, Heinz, to Holstein & Kappert Maschinenfabrrrik 'Phonix' GmbH. Apparatus for filling containers. 3,486,538, 12-30-69, Cl. 141-39.
Questa, Charles R.: *See*—
Keiter, Irvin L.; Sichel, Leonard H., Jr.; Morgenson, Edgar O., Jr.; and Questa, Charles R.,3,461,432.
Quetsch, John: *See*—
Saia, Frank J.; and Quetsch, John,3,440,496.
Quibel, Jacques: *See*—
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert,3,420,643.
Housset, Jean; Quibel, Jacques; Lhonore, Pierre; and Pidoux, Robert,3,457,192.
Quichaud, Claude: *See*—
Raynal, Jean; Gstalder, Serge; and Quichaud, Claude,3,448,305.
Quick, Donald J., to International Harvester Company. Topping mechanism for cane harvesters. 3,462,927, 8-26-69, Cl. 56-56.
Quick, George R.: *See*—
Holt, Harley E.; and Quick, George R.,3,451,145.
Quick, Lloyd; Mortoly, John L.; and Cameron, Steele P., to Taylor, James L., Manufacturing Company. Lumber conditioning and gluing method and apparatus. 3,428,508, 2-18-69, Cl. 156-307.
Quick Service Textiles, Inc.: *See*—
Miller, Samuel E., 3,440,911.
Quick, Stanley L.: *See*—
Foley, Thomas P.; and Quick, Stanley L.,3,466,877.
Quick Way, Inc.: *See*—
Hartz, Robert E., 3,481,060.
Quick, William H.; and Jacobs, Earl D., to North American Rockwell Corporation. Optical sign detector. 3,438,710, 4-15-69, Cl. 356-28.
Quick, William H.: *See*—
Jacobs, Earl D.; and Quick, William H.,3,428,816.
Quick-Elektromotoren-Werk G.m.b.H.: *See*—
Becker, Ernst; Notz, Karl; and Meier, Karl-Heinz, 3,443,445.
Quick-Rotan Becker & Co.: *See*—
Becker, Ernst; and Notz, Karl, 3,443,537.
Becker, Ernst; and Kling, Rudolf, 3,473,639.
Becker, Ernst; and Notz, Karl, 3,477,399.
Becker, Ernst; and Notz, Karl, 3,487,438.
Quick-Set, Incorporated: *See*—
Mooney, Paul C., 3,429,543.
Quickfit & Quartz Limited: *See*—
Buttery, Roger A.; and Turnbull, Thomas, 3,420,274.
Buttery, Roger A., 3,446,152.
Wheelock, David Bent; and Buckley, Robert, 3,428,249.
Quickpak Machinery Corporation: *See*—
Reitzes, Herbert L., 3,461,271.
Quickstad, La Ron O., to Oliver Corporation. Ground working implement with wing sections hinged to center section. 3,470,965, 10-7-69, Cl. 172-311.
Quietensky, Herbert; and Nitsch, Ernst, to Laevosan-Gesellschaft Chem. Pharm. Industrie Frank & Freudl, Dr. Process for the technical separation of sugar mixtures. 3,471,329, 10-7-69, Cl. 127-46.
Quigley Company, Inc.: *See*—
Demaison, Raymond J., 3,423,029.
Demaison, Raymond J., 3,460,933.
Quigley, John B.; and Dohanic, John L., Jr., to Marx, Louis, & Co., Inc. Vehicle guiding toy. 3,442,047, 5-6-69, Cl. 46-202.
Quigley, Norman: *See*—
Burkart, Leonard F., 3,442,753.
Quigley, Richard E., Jr.; and Medisch, George N., to United States of America, Air Force. Hydrogen-oxygen fuel internal combustion engine. 3,471,274, 10-7-69, Cl. 48-180.
Quigley, Robert A.: *See*—
Thomas, Howard M.; and Quigley, Robert A.,3,420,131.
Quigley, Stephen T.: *See*—
Birnbaum, Herman A.; and Quigley, Stephen T.,3,485,864.
Quigley, Warren W., to Gladwin Industries Inc. Telephone mounting device. 3,471,656, 10-7-69, Cl. 179-146.
Quik, Willem C. J.; and Van Weeren, Pieter A., to Shell Oil Company. Process for the preparation of hydrogen. 3,449,078, 6-10-69, Cl. 23-212.
Quik, Willem C. J.: *See*—
Van Helden, Henricus J. A.; Kouwenhoven, Herman W.; and Quik, Willem C. J.,3,442,794.
Quikphone, Inc.: *See*—
Guimond, Edward B., 3,466,396.
Quilico, Adolfo: *See*—
Minisci, Francesco; Belvedere, Giuseppe; Cecere, Mirella; and Quilico, Adolfo,3,444,194.
Minisci, Francesco; Galli, Remo; and Quilico, Adolfo,3,483,255.
Quillen, John D. Cycle lock. 3,439,516, 4-22-69, Cl. 70-383.
Quillet, Jean-Pierre: *See*—
Berthoux, Jean; Quillet, Jean-Pierre; and Schneider, Gerard,3,436,181.
Quillevere, Herve Alain; and Caruel, Jacques Emile Jules, to Societe Nationale d!Etude et de Construction de Moteurs d'Aviation. Combustion and cooling air control in turbojet engines. 3,440,818, 4-29-69, Cl. 60-39.65
Quimby, George R.; and Goldschmid, Otto, to ITT Rayonier, Incorporated. . 3,423,395, 1-21-69, Cl. 260-209.
Quimby, Oscar T., to Procter & Gamble Company, The. Methanehydroxydiphosphonic acids and salts useful in detergent compositions. 3,422,137, 1-14-69, Cl. 260-502.4
Quimby, Oscar T., to Procter & Gamble Company, The. Phosphonate compounds. 3,451,937, 6-24-69, Cl. 252-152.
Quinchon, Francis J., to Venot-Pic. Device for the circulation and the aeration of fluids. 3,485,484, 12-23-69, Cl. 261-87.
Quindar Electronics, Inc.: *See*—
Epstein, Philip L., 3,486,104.
Quine, John P.; and Younger, Cousby, to United States of America, Air Force. Spark gap switches for oversized waveguide. 3,424,943, 1-28-69, Cl. 315-39.
Quinlan, Joseph B., to United States of America, Army. Method for making a primer containing coated nitrocellulose granules. 3,485,901, 12-23-69, Cl. 264-3.
Quinlan, Joseph B.: *See*—
Scanlon, John J., Jr.; and Quinlan, Joseph B.,3,459,101.
Quinlan, Robert V., to International Telephone and Telegraph Corporation. Information transmission system and method. 3,461,231, 8-12-69, Cl. 178-6.8
Quinlan, William J.; and Huver, Lawrence L., to Hastings Manufacturing Company. Arm and blade connector for windshield wipers. 3,425,089, 2-4-69, Cl. 15-250.32
Quinlan, William J.; and Huver, Lawrence L., to Hastings Manufacturing Company. Windshield wiper assemblies-metal backing strip. 3,427,637, 2-11-69, Cl. 15-250.42
Quinn, Alton Dewitt: *See*—
Theimer, Ernst T.; Westbrook, John James, III; Wolt, John; and Quinn, Alton Dewitt,3,449,407.

Quinn, Charles A.; Rieger, Carl J.; and Bolomey, Rene A., to Mearl Corporation, The. Method of coating surfaces with high index oxides. 3,437,515, 4-8-69, Cl. 117-100.
Quinn, Edward J., to Hooker Chemical Corporation. Polyurethane coatings. 3,476,696, 11-4-69, Cl. 260-19.
Quinn, Frederic R., to Zyrotron Industries, Inc. Snap acting valve and control mechanism therefor. 3,445,086, 5-20-69, Cl. 251-11.
Quinn, Frederic R., to Zyrotron Industries, Inc. Fluid control system. 3,451,217, 6-24-69, Cl. 60-52.
Quinn, Frederic R., to Zyrotron Industries, Inc. Valve control mechanism. 3,471,088, 10-7-69, Cl. 236-68.
Quinn, Frederic R., to Zyrotron Industries, Inc. Modulating valve construction. 3,482,777, 12-9-69, Cl. 236-87.
Quinn, Halsey P., to Wagner Electric Corporation. Phase-controlled voltage regulator. 3,460,020, 8-5-69, Cl. 321-2.
Quinn, Herbert: *See—*
Markgraf, John H.; and Quinn, Herbert,3,485,919.
Quinn, Hubert F., to Burroughs Corporation. Magnetic storage devices with shielding between input and output. 3,479,655, 11-18-69, Cl. 340-174.
Quinn, Hubert R.: *See—*
Bliamptis, Emmanuel E.; and Quinn, Hubert R.,3,478,241.
Quinn, James E.; and Johnson, Delmar R., to Ampex Corporation. Helical scan recorder with tapered drum to prevent oxide build-up. 3,436,491, 4-1-69, Cl. 179-100.2
Quinn, John J., to Dymo Industries, Inc. Apparatus for dispensing stencil labels of selected, accurately determined length. 3,456,537, 7-22-69, Cl. 83-162.
Quinn, Joseph F., to Hewlett-Packard Company. Sampling apparatus. 3,421,858, 1-14-69, Cl. 23-253.
Quinn, Joseph G., to General Electric Company. Stereoscopic X-ray apparatus employing image converting and polarizing means. 3,432,658, 3-11-69, Cl. 250-60.
Quinn, Patrick D., to American Zinc Company. Method and composition for rendering material fire resistant. 3,463,665, 8-26-69, Cl. 117-138.
Quinn, Reginald S., to Redna Manufacturing Agency. Saw heat tensioner. 3,445,097, 5-20-69, Cl. 263-4.
Quinn, Richard M.; and Candioto, Donny W., to Ball Brothers Company, Incorporated. Electronic monitoring system for apparatus having multi-stations which has a separate memory cell for registering the status of each station of the apparatus. 3,428,819, 2-18-69, Cl. 250-223.
Quinn, Richard: *See—*
O'Shea, Christopher J.; Quinn, Richard; and Johnson, Donald S., Jr.,3,426,196.
Quinn, Robert Gerard, to Johns-Manville Corporation. Building material laminate. 3,427,216, 2-11-69, Cl. 161-205.
Quinn, Robert Gerard: *See—*
Hutchins, Marsden Clair; and Quinn, Robert Gerard,3,441,474.
Quinn, William R. Reaction-free rotary drive. 3,435,704, 4-1-69, Cl. 74-572.
Quinones, Carlos M.; and Garcia, Bonifacio. Street water hydrant guard. 3,453,655, 7-1-69, Cl. 137-296.
Quinones, Nicanor Quinones: *See—*
Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones,3,444,169.
Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones,3,458,516.
Quint, Howard A. Pig holder for use when castrating. 3,483,846, 12-16-69, Cl. 119-98.
Quint, Richard J.: *See—*
Leckey, Cleve R.; Quint, Richard J.; and Blanchard, Richard L.,3,427,723.
Quintana, Leo J., to United States of America, Air Force. Fabrication of microminiature multilayer circuit boards. 3,471,631, 10-7-69, Cl. 174-68.5
Quintana, Leo J.: *See—*
Shaheen, Joseph M.; and Quintana, Leo J.,3,464,855.
Quintilian, Bartholomew F.; and Zarfoss, James R., to Koppers Company, Inc. Discharge electrode assembly for electrostatic precipitators. 3,483,670, 12-16-69, Cl. 55-112.
Quinting, Rudi F.: *See—*
Feles, Nick; and Quinting, Rudi F.,3,437,349.
Quinto, Mario: *See—*
Price, Howard; Szilagyi, Bela; and Quinto, Mario,3,481,268.
Quinton, Wayne E. Cannula extension and connector apparatus. 3,484,121, 12-16-69, Cl. 285-242.
Quiquempois, Andre Jean Arthur: *See—*
Conseiller, Yvon Gilbert Marc; and Quiquempois, Andre Jean Arthur,3,468,954.
Quirijnen, Marius: *See—*
van der Wijngaart, Bernardus Antonius Carolus; Quirijnen, Marius; and Knigge, Marinus Gijsbertus,3,477,787.
Quis, Peter: *See—*
Gruber, Wilhelm; and Quis, Peter,3,462,471.
Gruber, Wilhelm; and Quis, Peter,3,467,668.
Quisenberry, Richard Keith, to Du Pont de Nemours, E. I., and Company. Regular sequential copolyesters. 3,440,221, 4-22-69, Cl. 260-75.
Quisenberry, Robert E.: *See—*
Devins, James T.; and Quisenberry, Robert E.,3,433,848.
Quisenberry, Robert E., to Texaco, Inc. Isomerization process employing hydrotreating and molecular sieve purification. 3,472,912, 10-14-69, Cl. 260-683.65
Quisling, Sverre. Integral fastener. 3,462,805, 8-26-69, Cl. 24-204.
Quisling, Sverre. Slider for integral fastener. 3,462,806, 8-26-69, Cl. 24-205.12
Quisling, Sverre. Clothes hanger. 3,463,368, 8-26-69, Cl. 223-88.
Quist, Bernardus Bastiaan, to Shell Oil Company. Process for the agglomerization of solids from a suspension thereof in water. 3,449,483, 6-10-69, Cl. 264-117.
Quist, Eric G.: *See—*
Hansen, Donald E.; and Quist, Eric G.,3,423,748.
Hansen, Donald E.; and Quist, Eric G.,3,447,054.
Kaplan, Martin; and Quist, Eric G.,3,487,397.
Quitmeyer, John W. Piano sound augmentor. 3,452,634, 7-1-69, Cl. 84-194.
Quittenton, Richard C.: *See—*
Dennis, George E.; Robinson, Kenneth R.; and Quittenton, Richard C.,3,443,958.
Quittner, George F., to API Instruments Company. Spot recording and pickup methods and apparatus for the determination of hardness of relatively moving magnetic material without contacting the same. 3,432,747, 3-11-69, Cl. 324-34.
Quobex, Jean: *See—*
Domine, Daniel; and Quobex, Jean,3,481,699.
Quoos, Kurt; and Leifeld, Ferdinand. Device for the breadth treatment of textile breadths by means of a liquid. 3,436,935, 4-8-69, Cl. 68-175.
Quosig, Ralph A.; and Viss, Normal L., to Sperry Rand Corporation. Multiprocessor interrupt directory. 3,421,150, 1-7-69, Cl. 340-172.5
Qurashi, Maqbool: *See—*
Winston, Eric; and Qurashi, Maqbool,3,479,633.
Winston, Eric; and Qurashi, Maqbool,3,487,267.
Qureshi, Shabbir A.: *See—*
Siddiqui, Salimuzzaman; Qureshi, Shabbir A.; and Ashrafi, Shahid H.,3,454,664.
Quynn, Richard G., to Celanese Corporation. Treatment of synthetic polyamide materials with a mixture of halogenated alkanes and halogenated monocarboxylic acids. 3,475,771, 11-4-69, Cl. 8-173.2
Quynn, Richard G.: *See—*
Hamilton, Robert L.; and Quynn, Richard G.,3,433,861.
Qvist, Svein-Ivar: *See—*
Hover, Per E.; and Qvist, Svein-Ivar,3,448,785.
R & D Electronics: *See—*
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M., 3,445,836.
R & D of America, Inc.: *See—*
Strumor, Mathew A., 3,422,785.
R & D Suppliers, Inc.: *See—*
Berry, William J., 3,448,743.
R & H Molding, Inc.: *See—*
Heitzman, Charles J., 3,468,306.
R & L Molecular Research Ltd.: *See—*
Lemieux, Raymond U.; and Micetich, Ronald G., 3,476,765.
Lemieux, Raymond Urgel; and Raap, Rintje, 3,464,999.
Micetich, Ronald George; and Lemieux, Raymond Urgel, 3,465,000.
Raap, Rintje; and Lemieux, Raymond Urgel, 3,468,874.
Raap, Rintje; Lemieux, Raymond Urgel; and Micetich, Ronald George, 3,476,743.
R. & R. Research Limited: *See—*
Bass, Patrick, 3,485,941.
Gabriel, Ralph Parton; and Bass, Patrick, 3,459,882.
Waller, Peter John; and Waterfield, Charles Jeffrey, 3,460,161.
R-F Controls, Inc.: *See—*
Fudaley, Solly L., 3,445,835.
R-N Acceptance Limited: *See—*
Smith, Harold E., 3,458,071.
Raab, Andrew F., to Littlefuse, Inc., mesne. Adjustable safety switch. 3,431,374, 3-4-69, Cl. 200-61.54
Raab, Gunter: *See—*
Polensky, Gerhard; and Raab, Gunter,3,453,393.
Raab, Hans: *See—*
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,570.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,571.
Raab, Hilary A., to East Chicago Machine Tool Corporation. Baling system. 3,438,319, 4-15-69, Cl. 100-35.
Raab, Hilary A., to East Chicago Machine Tool Corporation. Apparatus and method for compacting material. 3,438,320, 4-15-69, Cl. 100-35.
Raab, Karl Heinz, to Schneider, Jos., & Co. Diaphragm-stop preselector for a photographic camera. 3,451,325, 6-24-69, Cl. 95-64.

Raab, Regis, to American Cyanamid Company. Tool qualification film comprising a woven fabric coated with a resinous mixture for use in determining the effectiveness of tools. 3,441,436, 4-29-69, Cl. 117-161.
Raab, Siegfried: *See—*
Lebek, Alexander; and Raab, Siegfried,3,453,088.
Raabe, Ulo. Sauna steam generators. 3,467,813, 9-16-69, Cl. 219-275.
Raaben, Dirk J.: *See—*
Westmijze, Herman; and Raaben, Dirk J.,3,486,400.
Raaden, Dirk J.: *See—*
Gruitroy, Willem; and Raaden, Dirk J.,3,443,419.
Raap, Rintje; and Lemieux, Raymond Urgel, to R & L Molecular Research Ltd. 6-Tetrazolylacetamido penicillanic and 7-tetrazolylacetamido cephalosporanic acids. 3,468,874, 9-23-69, Cl. 260-239.1
Raap, Rintje; Lemieux, Raymond Urgel; and Micetich, Ronald George, to R & L Molecular Research Ltd. 6-losothiazolylacetamido penicillanic acids. 3,476,743, 11-4-69, Cl. 260-239.1
Raap, Rintje: *See—*
Lemieux, Raymond Urgel; and Raap, Rintje,3,464,999.
Raasch, Hans, to Reiners, Walter. Pick-up device for conveying individual textile coils out of storage. 3,477,559, 11-11-69, Cl. 198-198.
Raasch, Maynard S., to Du Pont de Nemours, E. I., and Company. N-alkyl- and N-cycloalkyl-bis (trifluoromethyl-ketenimines and the preparation thereof. 3,462,489, 8-19-69, Cl. 260-566.
Raasch, Maynard S., to Du Pont de Nemours, E. I., and Company. Hexafluoroisopropylidenethietanes and their S-oxides and S-dioxides. 3,468,908, 9-23-69, Cl. 260-327.
Raasch, Robert A. Roller for truck cover. 3,478,980, 11-18-69, Cl. 242-86.52
Raba, Frantisek: *See—*
Kyr, Ladislav; Volenik, Jiri; and Raba, Frantisek,3,478,257.
Raba, Joseph W. Advanced directional attack reading machine. 3,484,954, 12-23-69, Cl. 35-35.
Raban, Joachim: *See—*
Neurath, Georg; Kopsch, Reiner; and Raban, Joachim,3,424,172.
Rabanit, Andre, to Electricite de France (Service National). D. C. generator, particularly for burning-out faults in underground electric cables. 3,457,492, 7-22-69, Cl. 322-96.
Rabbidge, Ralph M.: *See—*
Peck, Adrian J.; and Rabbidge, Ralph M.,3,455,147.
Rabe, Erich, to Schildkroet AG vorm Rheinische Gummi- und Celluloidfabrik. Sound reproducing apparatus. 3,452,991, 7-1-69, Cl. 274-9.
Rabe, George B.; and Grossman, Walter B., to Thiokol Chemical Corporation. Valve mechanism. 3,430,442, 3-4-69, Cl. 60-39.14
Rabe, Peter. Lighter. 3,466,134, 9-9-69, Cl. 431-152.
Rabek, Jan W. Transmission. 3,468,175, 9-23-69, Cl. 74-63.
Rabel, Steven T.: *See—*
Mirabile, Frank A.; and Rabel, Steven T.,3,434,993.
Rabenhorst, David W., to United States of America, Navy. Passive separation system. 3,431,854, 3-11-69, Cl. 102-49.4
Rabenhorst, David W., to United States of America, Navy. Spacecraft extendible boom sunshade. 3,434,255, 3-25-69, Cl. 52-108.
Rabenhorst, David W., to United States of America, Navy. Releasable fastener. 3,467,992, 9-23-69, Cl. 24-19.
Rabenold, Ronald R.; and Parker, Earl E., to PPG Industries, Inc. Triple accelerator system for promoting the cure of free-radical catalyzed unsaturated polyester resins. 3,449,276, 6-10-69, Cl. 260-22.
Rabens, Neil W.: *See—*
Foley, Charles F.; and Rabens, Neil W.,3,454,279.
Rabian, Laszlo; and Grendelmeier, Georg, to Oerlikon-Buhrle Holding Ltd.Digital decade positioning system including a stepping motor 'fine' decade drive for the scale-scanner. 3,465,220, 9-2-69, Cl. 318-18.
Rabian, Laszlo; and Grendelmeier, Georg, to Oerlikon-Buhrle Holding Ltd. Device for the compensation of variable interference effects on a radiation- electrical measuring or control system. 3,469,101, 9-23-69, Cl. 250-205.
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel, to Institut Francais du Petrole des Carburants et Lubrifiants. Heterocyclic polymers of improved thermal stability consisting of polyisoindoloquinazoline diones and analogs thereof. 3,461,096, 8-12-69, Cl. 260-47.
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel, to Institut Francais du Petrole, des Carburants et Lubrifiants. Polybenzimidazole-polyamide copolymers and block polymers. 3,471,453, 10-7-69, Cl. 260-78.
Rabilloud, Guy; Sillion, Bernard; and de Gaudermaris, Gabriel, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for preparing polyimidazole resins and use thereof in forming laminates. 3,476,590, 11-4-69, Cl. 117-126.
Rabinovich, Nina Abramovna: *See—*
Kuljbakh, Valjter Osvaljdovich; Rabinovich, Nina Abramovna; and Raigorodskaja, Valentina Jakovlevna,3,450,718.
Rabinovitz, Elsa: *See—*
Raviv, Samuel; Rabinovitz, Elsa; and Malkiely, Shimon,3,446,713.
Rabinow, Jacob, to Control Data Corporation. Optical reading machine and specially prepared documents therefor. 3,444,517, 5-13-69, Cl. 340-146.3
Rabinow, Jacob, 10% to Libman, Max L. Safety needle device for sewing machine. 3,450,081, 6-17-69, Cl. 112-221.
Rabinow, Jacob, to Control Data Corporation, mesne. Magnetic recording on pieces of mail and the like. 3,465,317, 9-2-69, Cl. 340-174.1
Rabinow, Jacob, to Control Data Corporation. Reading machine for selectively oriented printed matter. 3,483,511, 12-9-69, Cl. 340-146.3
Rabinow, Jacob; and Genovese, Joseph A., to Control Data Corporation. Rotary diverter sorter. 3,472,506, 10-14-69, Cl. 271-64.
Rabinowitz, Azriel Jay, to Burndy Corporation. MI cable terminal connection. 3,437,739, 4-8-69, Cl. 174-65.
Rabinowitz, Mario, to Westinghouse Electric Corporation. Low-temperature or superconducting vacuum circuit interrupter. 3,440,376, 4-22-69, Cl. 200-144.
Rabinowitz, Mario; and Fox, Russell E., to Westinghouse Electric Corporation. Vacuum-type circuit interrupters using gallium or gallium alloys as bridging conducting material. 3,462,573, 8-19-69, Cl. 200-152.
Rabinowitz, Robert, to American Cyanamid Company. Preparation of alkyl and aryl alpha-cyanoacrylates. 3,444,233, 5-13-69, Cl. 260-465.
Rabjohn, Rodney R. Battery support device for power-operated vehicles and the like. 3,437,164, 4-8-69, Cl. 180-68.5
Rabson, Edward John, to Brico Engineering Limited. Method of making a curved sealing element. 3,456,318, 7-22-69, Cl. 29-156.62
Rabstad, Lars, to Peterson, M., & Son A/S. Shrinkage of web material such as paper. 3,477,906, 11-11-69, Cl. 162-205.
Rabus, Annie: *See—*
Boudin, Georges M.; and Rabus, Annie,3,444,370.
Rabus, Friedrich: *See—*
Eisele, Hermann; Rabus, Friedrich; and Rimatzki, Walter,3,470,854.
Scholl, Hermann; Rabus, Friedrich; Eichler, Dieter; Kadelbach, Volker; Reichardt, Wolfgang; and Schmidt, Peter Jurgen,3,433,101.
Raby, Dallas J., to General Motors Corporation. Pointer instrument with color warning. 3,476,075, 11-4-69, Cl. 116-116.
Raby, Omer P.: *See—*
Vivancos, Julien; and Corbin, Andre A., 3,463,204.
Race, Keith W.: *See—*
Carlson, Paul E.; and Race, Keith W.,3,474,888.
Race, Marlin L.: *See—*
Martiniak, Leonard J.; and Race, Marlin L.,3,430,223.
Race, Richard T., to Motorola, Inc. Thermoelectric antiperculator device for the fuel system of an internal combustion engine. 3,477,238, 11-11-69, Cl. 62-3.
Rachal, Francis: *See—*
Cricchi, James R.; and Rachal, Francis,3,427,559.
Rachford, John G.: *See—*
Hirschhorn, Harry J.; and Rachford, John G.,3,433,943.
Rachlin, Albert Israel: *See—*
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney,3,464,990.
Fellig, Josef; and Rachlin, Albert Israel,3,423,428.
Focella, Antonino; and Rachlin, Albert Israel,3,446,797.
Focella, Antonino; Gurien, Harvey; and Rachlin, Albert Israel,3,431,301.
Kiss, Joseph; Spiegelberg, Hans; Vaterlaus, Bruno Peter; Rachlin, Albert; and Doebel, Karl,3,445,455.
Rachlis, Robert E.: *See—*
Lanes, Albert; Rachlis, Robert E.; Roth, Irving; and Stark, Edward W.,3,445,634.
Rachman, Isadore B., to Metal Dynamics Corporation. Clamp for wheelchair lift. 3,455,465, 7-15-69, Cl. 214-1.
Rachman, Isadore B., to Metal Dynamics Corporation. Wheelchair lift. 3,476,404, 11-4-69, Cl. 280-30.
Rachman, Isadore B., to Metal Dynamics Corporation. Digital indicator. 3,480,950, 11-25-69, Cl. 340-378.
Racine, Bill A.: *See—*
McKibben, Richard K.; Racine, Bill A.; and Strom, John R.,3,484,998.
Racine Hydraulics & Machinery Inc.: *See—*
Klessig, Ernst F.; and Destache, Richard W., 3,452,779.
McIlrath, William P., 3,438,335.
Racine Hydraulics, Inc.: *See—*
Brannon, Edward O., 3,456,560.
Brannon, Edward O., 3,472,261.
Brannon, Edward O.; and Petersen, Irving J., 3,480,039.
Breitsprecher, Charles O.; and Kauffman, Jack, 3,474,826.

Clark, Richard J., 3,456,688.
Racine, Paul G., to Mount Hope Machinery Company. Sheet-treating roll apparatus. 3,436,002, 4-1-69, Cl. 226-23.
Racine, Richard W.; and Colchin, Max E., to International Harvester Company. Convertible lounge, table and seat arrangement for vehicle. 3,463,539, 8-26-69, Cl. 296-23.
Racine, Richard W.; and Colchin, Max E., to International Harvester Company. Retractable bed. 3,480,975, 12-2-69, Cl. 5-118.
Racine, William J.; Alpert, Edward D.; and Caldwell, James H., Jr., to Atlantic Richfield Company. Desulfurization of petroleum hydrocarbon. 3,438,889, 4-15-69, Cl. 208-263.
Raciti, Joseph A., to General Electric Company. Automatic wave soldering machine. 3,482,755, 12-9-69, Cl. 228-34.
Rack, Alois J., to Bell Telephone Laboratories, Incorporated. Optical pulse generator. 3,435,226, 3-25-69, Cl. 250-199.
Rackear, Bernard: *See*—
McDermott, Edward B.,3,463,156.
Racki, John A. Universal internal thread fastener assembly. 3,477,337, 11-11-69, Cl. 85-73.
Racki, Waldemar, to Prontor-Werk Alfred Gauthier, G.m.b.H. Device for indicating the depth-of-field range for photographic cameras. 3,427,947, 2-18-69, Cl. 95-44.
Rackley, John Earl. Container capping means. 3,440,798, 4-29-69, Cl. 53-312.
Rackoff, Selwyn R.; and Dempsey, Martin J., to American Shear Knife Co. Roll assembly for reducing work and roll for such assembly. 3,432,902, 3-18-69, Cl. 29-125.
Rackoff, Selwyn R.; and Dempsey, Martin J., to American Shear Knife Co. Roll assembly. 3,435,499, 4-1-69, Cl. 29-125.
Raclot, Bernard, to Societe Generale du Magnesium. Aluminum alloy and anodes formed thereof. 3,455,808, 7-15-69, Cl. 204-197.
Racy, Joseph E., to Sanders Associates, Inc. Amplifier circuits employing varactors for controlling power gain and bandwidth. 3,461,395, 8-12-69, Cl. 330-29.
Raczuk, Taras W.: *See*—
Miller, Robert B.; and Raczuk, Taras W.,3,464,881.
Miller, Robert B.; Creighton, Stephen M.; and Raczuk, Taras W.,3,464,877.
Raczynski, Walter A.; and White, Kenneth J., to Dennison Manufacturing Company. Photocopy apparatus. 3,425,778, 2-4-69, Cl. 355-65.
Radack, Henry E. Basting implement. 3,458,887, 8-5-69, Cl. 15-210.
Radcliffe, Bryan R.: *See*—
Martin, Edward J.; and Radcliffe, Bryan R.,3,458,942.
Radcliffe, Milton R.; and Newton, Charles G., Jr., to United Shoe Machinery Corporation. Traffic marking. 3,450,556, 6-17-69, Cl. 117-62.
Radcliffe, Stuart Norman: *See*—
Clarke, Stanley Frederick; Radcliffe, Stuart Norman; and Reeves, Anthony John,3,427,555.
Mortley, Wilfred Sinden; Radcliffe, Stuart Norman; and Clarke, Stanley Frederick,3,421,112.
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F., to Republic Steel Corporation. Detector of stopped or passing vehicles. 3,426,191, 2-4-69, Cl. 246-167.
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F., to Republic Steel Corporation. Radioactive ray detectors including casing constructed to facilitate repair and circuitry for controlling on-off signal. 3,436,543, 4-1-69, Cl. 250-83.6
Radder, Johannes: *See*—
Spitzer, Ernst L. Th. M.; and Radder, Johannes,3,432,257.
Raddi, William J., to ESB Incorporated, mesne. Rechargeable heart stimulator. 3,454,012, 7-8-69, Cl. 128-422.
Radeka, Veljko: *See*—
Chase, Robert L.; and Radeka, Veljko,3,480,870.
Radel, Philip Harold; and Miller, Seymour Marvin, to Gilbert International Corporation. Container for air transportation. 3,430,759, 3-4-69, Cl. 206-7.
Rademacher, Gustav F., to General Motors Corporation. High temperature-pressure metal-to-glass seal constructions. 3,433,515, 3-18-69, Cl. 287-189.365
Rademacher, Gustav F., to General Motors Corporation. Glow igniter. 3,434,012, 3-18-69, Cl. 317-98.
Rademacher, Thomas P., to Hamlin Products, Incorporated. Trapshooting target projector. 3,420,218, 1-7-69, Cl. 124-7.
Rademacher, Thomas P., to Sun Corporation. Steering axle mount for a wheeled toy. 3,442,528, 5-6-69, Cl. 280-87.04
Rademacher, Thomas P., to Hamlin Products, Incorporated. Air gun shot arresting target. 3,455,554, 7-15-69, Cl. 273-102.4
Rademakers, Franciscus Maria Antonius: *See*—
Daniels, Henricus Petrus Cornelis; and Rademakers, Franciscus Maria Antonius,3,455,015.
Rader, Edwin R.; and Weyrick, Robert C., to Information Development Corporation. Oscillator phase and frequency synchronizing circuit. 3,460,052, 8-5-69, Cl. 331-10.
Rader, Elmer A.: *See*—
Reeve, Hal B.; Brettrager, Henry J.; and Rader, Elmer A.,3,425,495.
Rader Pneumatics & Engineering Co., Ltd.: *See*—
Farnworth, Wilfred, 3,450,442.
Farnworth, Wilfred, 3,471,203.
Smith, William C., 3,425,749.
Smith, William C.; and Free, David, 3,478,707.
Rader Pneumatics Incorporated: *See*—
Wahl, Harold F., 3,424,295.
Wahl, Harold F.; and Nippert, Harold, 3,430,873.
Rader, William M.; Goldman, Alan J.; and Winter, Joseph, to Olin Mathieson Chemical Corporation. Process for obtaining composite article. 3,470,607, 10-7-69, Cl. 29-470.1
Radewan, Milton G. Post-operative nose stent. 3,426,751, 2-11-69, Cl. 128-76.
Radford, David L.: *See*—
Strike, Nicholas L.; Thun, Richard G.; and Radford, David L.,3,464,588.
Radford, Matthew Frederick, to Marconi Company Limited, The. Horn antenna having plural convergent waveguide paths. 3,438,040, 4-8-69, Cl. 343-778.
Radford, Matthew Frederick, to Marconi Company Limited, The. Radio receiving and transmitting systems. 3,470,559, 9-30-69, Cl. 343-792.5
Radford, Robert E., to Oil Capital Valve Company. Resilient liner element for butterfly valves. 3,473,784, 10-21-69, Cl. 251-306.
Radford, Warren S. Support device. 3,454,302, 7-8-69, Cl. 297-230.
Radford, William E.: *See*—
Trott, Winfield James; and Radford, William E.,3,448,503.
Radgens, Thomas H. Chromatograph tape septum injection port. 3,431,783, 3-11-69, Cl. 73-422.
Radiant Pen Corporation: *See*—
Hechtle, Emil, 3,453,694.
Radiation Dynamics, Inc.: *See*—
Cleland, Marshall R.; and Thompson, Chester C., Jr., 3,458,743.
Radiation Incorporated: *See*—
Bartlett, Homer E.; and Moseley, Roland E., 3,430,244.
Breese, Lemuel R., 3,444,521.
Cox, Jack Lamarr; and Crouch, Arthur B., 3,475,582.
France, Bernard H., 3,479,530.
Gardenhire, Lawrence W.; and Woolf, Ashby M., 3,478,266.
Johnson, Robert J., 3,445,858.
Kantor, Misha I., 3,436,785.
Kantor, Misha I., 3,459,467.
Lewis, Bernard L., 3,435,458.
Lewis, Bernard L., 3,443,098.
Lewis, Bernard L., 3,460,103.
McRae, Daniel D.; Glover, Edward B.; Williamson, Leon B.; and Frederick, Sinclair A., 3,426,327.
Pear, Charles B., Jr., 3,439,355.
Pear, Charles B., Jr., 3,456,249.
Perkins, Frank A., Jr., 3,473,131.
Vock, Bernhard; and Torrey, LeRoy J., 3,475,581.
Radiation Processing, Inc.: *See*—
Timmerman, Robert, 3,467,488.
Radiation Research Corporation: *See*—
Tomasino, Charles; and Lake, Gerard K., 3,477,902.
Radiation Systems Incorporated: *See*—
Turtora, John; and Charitat, Jean, Jr., 3,447,376.
Radici, Pierino: *See*—
Ackermann, Jacob; and Radici, Pierino,3,459,709.
Radielovic, Dragutin: *See*—
Ouweltjes, Jan Lourens; Wanmaker, Willem Lambertus; and Radielovic, Dragutin,3,468,811.
Wanmaker, Willem Lambertus; Radielovic, Dragutin; and Hoekstra, Age Hylke,3,468,812.
Radimer, Kenneth J., to FMC Corporation. Electrolytic regeneration of spent ammonium persulfate etchants. 3,470,044, 9-30-69, Cl. 156-19.
Radimer, Kenneth J., to FMC Corporation. Process and apparatus for controlling metal etching operation. 3,475,242, 10-28-69, Cl. 156-19.
Radin, Edward J.: *See*—
Nichols, Gordon W.; and Radin, Edward J.,3,472,592.
Radington-Meech, John Richard; and Wright, George Thomas, to Industrial Electrical Company Limited. Static eliminators. 3,470,416, 9-30-69, Cl. 317-2.
Radio Corporation of America: *See*—
Adams, Robert L., 3,432,035.
Agin, Julius, 3,426,210.
Amodei, Juan J., 3,445,777.
Artzt, Maurice; and Sowiak, Milton M., 3,444,319.
Avins, Jack, 3,444,477.
Bach, Henry M., Jr., 3,420,954.
Ball, Henry; and McLaughlin, Donald N., 3,441,342.
Barbin, Robert L., 3,424,942.
Barkow, William H., 3,436,139.
Baun, Leonard J., 3,420,952.
Baun, Leonard J., 3,423,525.
Beck, John B., 3,441,791.
Beck, John Brewer, 3,423,630.
Beelitz, Howard R., 3,445,780.
Bell, Matthew M., 3,429,030.
Benedict, Gerald P., 3,441,751.
Blicher, Adolph; and Czorny, Bohdan R., 3,427,515.
Blicher, Adolph, 3,439,236.

Block, Fred G.; and Hall, William B., 3,426,220.
Borkan, Harold, 3,435,138.
Brunner, Eduard R., 3,432,720.
Callaghan, John D., 3,445,854.
Callaghan, John David, 3,429,033.
Campbell, Thomas J., 3,422,369.
Carley, Donald R., 3,434,019.
Clark, Robert John, 3,422,420.
Clark, Robert John, 3,426,344.
Cohen, Fred, 3,448,354.
Cohen, Gene, 3,423,650.
Czorny, Bohdan R.; and Cave, Eric F., 3,443,175.
D'Agostino, Michael V., 3,431,505.
Dailey, John L., 3,437,951.
Davis, William J., 3,430,207.
Degenkolb, Robert S.; and Liederbach, William H., 3,434,877.
Desmond, Timothy J.; Greenburg, Leon S.; and Weisberg, Harry, 3,445,735.
Dingwall, Andrew G. F., 3,437,533.
Dingwall, Andrew G. F.; and Wilde, Dale K., 3,442,718.
Dischert, Robert A.; and Hobson, Norman L., 3,445,590.
Donald, Philip J., 3,427,631.
Drew, Laurance C.; and King, Harold F., 3,421,101.
Easter, Finis C., 3,445,751.
Finkelstein, Morris B., 3,441,666.
Fisher, Michael S., 3,421,098.
Foldes, Peter, 3,423,756.
Fow, Robert S.; and Oberman, Joel R., 3,425,021.
Fox, Edward C., 3,444,396.
French, Larry J., 3,440,620.
Gange, Robert A.; and Thompson, John F., 3,430,075.
Gange, Robert A., 3,434,121.
Gerritsen, Hendrik J., 3,444,316.
Giaimo, Edward C., Jr., 3,428,452.
Gibson, John James, 3,439,185.
Gill, William Lee; and Perkel, Harold, 3,427,453.
Giontzeneli, Kiamil, 3,421,100.
Goltsos, Costas E.; and Amato, Anthony, 3,440,407.
Goshgarian, Haig, 3,430,110.
Grundmann, Gustave Louis, 3,436,591.
Haferl, Peter, 3,437,745.
Hall, David Wilson, II, 3,428,885.
Hall, William B., 3,419,950.
Hanak, Joseph John, 3,420,707.
Hart, Oliver P., 3,436,681.
Harwood, Leopold A., 3,423,725.
Harwood, Leopold A., 3,430,154.
Harwood, Leopold A., 3,430,155.
Hathaway, Jarrett L., 3,424,866.
Heilmeier, George H.; and Heyman, Philip M., 3,423,654.
Hershenov, Bernard, 3,425,001.
Hofstein, Steven R., 3,434,021.
Jacoby, George V., 3,441,921.
James, Emrys C., 3,434,156.
Janson, Eugene Ernst; and Thomas, Lucius Ponder, 3,441,669.
Kaminsky, Murray F.; and Spector, Gerald, 3,440,409.
Kiss, Zoltan J., 3,438,881.
Kiss, Zoltan J., 3,447,097.
Kleinknecht, Hans P., 3,427,460.
Konkel, John A.; and Joy, Frederick A., 3,436,470.
Kosonocky, Walter F., 3,431,437.
Leek, George W., 3,421,938.
Leidich, Arthur J., 3,444,476.
Leidich, Arthur J., 3,445,776.
Lemmon, Richard C., 3,428,857.
Liddle, Stephen W.; and Bush, Clarence E., 3,443,767.
Liddle, Stephen W.; and Hawkins, Charles G., 3,443,768.
Ling, Andrew T., 3,420,991.
Marshall, Thomas G., 3,439,291.
McDonald, James A.; and Beck, John Brewer, 3,424,941.
McDonald, James A., 3,428,854.
McDonald, James A., 3,428,855.
McDonald, James A.; and Wilmarth, Paul C., 3,441,790.
McDonald, James Alexander, 3,434,000.
Miller, James C.; and Wine, Charles M., 3,439,317.
Miller, Michael E., 3,420,534.
Mortimer, Austin J., 3,443,188.
Moss, Herbert Irwin; and Stollar, William Porter, 3,448,184.
Nelson, Herbert, 3,428,845.
Newton, Arnold, 3,428,900.
Norley, Ronald R., 3,433,993.
Olden, Roger G., 3,442,645.
Olmstead, John; Jacobus, Lewis A., Jr.; and Athanassiadis, Eleftherios G., 3,427,514.
Onyshkevych, Lubomyr S., 3,434,119.
Owens, Raymond C., 3,448,323.
Parker, William N., 3,422,240.
Preisig, Joseph O., 3,432,718.
Rapp, Adolph Karl, 3,440,444.
Richards, Gerald P., 3,435,134.
Rodner, Robert A., 3,435,129.
Rolke, William, 3,433,932.
Rosenzweig, Ronald, 3,427,511.
Rosenzweig, Ronald, 3,432,920.
Royce, Martin R., 3,423,621.
Sanford, Robert F., 3,445,849.
Santilli, Richard A., 3,443,240.
Schade, Otto H., Sr., 3,426,235.
Scheffer, Harvey D. Gibson, 3,438,403.
Scheffer, Harvey D. Gibson, 3,438,405.
Schrader, Edward Robert, 3,443,021.
Sendelweck, Gene Karl, 3,435,276.
Sheng, Alfredo S., 3,430,071.
Simshauser, Elvin Dean, 3,444,975.
Siwko, Karol, 3,441,865.
Snyder, Donald J., 3,423,536.
Solmos, Gene R., 3,432,785.
Stoudenheimer, Richard G.; and Thoman, Daniel L., 3,434,876.
Taynton, Ralph, 3,434,014.
Thompson, Roger D., 3,443,139.
Tourtellot, John Allen, 3,444,333.
Ulary, Russell R., 3,431,890.
Vallee, John A., 3,422,425.
Vallee, John A.; and Kato, Koji, 3,448,445.
Weinstein, Hillel, 3,440,625.
Weisberg, Harry, 3,427,509.
Werner, Richard E., 3,441,748.
Wheatley, Carl F., Jr., 3,441,673.
Winder, Robert O., 3,434,058.
Winder, Robert O., 3,439,328.
Yen, Richard H., 3,434,112.
Yen, Richard H., 3,445,818.
Zimmerman, Thomas Anthony; and Burrus, Thomas W., 3,436,475.
See also: RCA Corporation

Radio Frequency Co., Inc.: *See—*
Manwaring, Joshua G. D., 3,461,263.

Radio Frequency Laboratories, Inc.: *See—*
Seabury, Richard W., Jr., 3,464,014.

Radio Manufacturing Co., Inc.: *See—*
Housman, Robert W., 3,477,725.

Radiometer A/S: *See—*
Nielsen, B Aagaard, 3,464,434.

Radioptics, Inc.: *See—*
Held, Kalman; and Solon, Leonard R., 3,470,490.

Radke, Donald G.; and Booth, Frederick C., to Robbins, Jim, seat Belt Co. Safety seat belt device with shear strip energy absorbing means. 3,438,674, 4-15-69, Cl. 297-386.

Radke, Donald G.; and Booth, Frederick C., to Robbins, Jim, Seat Belt Co. Wire-pulling means for absorbing the kinetic energy of a moving body. 3,446,533, 5-27-69, Cl. 297-386.

Radke, Donald G.; and Booth, Frederick C., to Robbins, Jim, Seat Belt Co. Buckle mechanism with energy absorbing link. 3,456,981, 7-22-69, Cl. 297-389.

Radke, Lee, Associates, Inc.: *See—*
Brawner, Frederick A.; and Smith, Lawrence H., 3,442,150.
Brawner, Frederick A.; Smith, Lawrence H.; and Pringle, William L., 3,442,151.

Radke, William A.; and Schomburg, John F., to International Business Machines Corporation. Noise cancellation circuit for a photomultiplier tube. 3,432,669, 3-11-69, Cl. 250-207.

Radler, Herman, to Siemens Aktiengesellschaft. Switching arrangement for the actuation of a tariff-charge device in teletype connections. 3,423,519, 1-21-69, Cl. 178-2.

Radlmann, Eduard; Wolf, Gerhard Dieter; Wieden, Horst; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Polyarylene disulfimide sulfones. 3,481,885, 12-2-69, Cl. 260-2.2

Radnor, Richard Rishel, to General Electric Company. Power amplifier. 3,471,720, 10-7-69, Cl. 307-314.

Rado, Antonio; and Tognazza Bruno G., to Gebruder Buhler AG. Apparatus for degerming maize. 3,476,326, 11-4-69, Cl. 241-73.

Rado, John A., to Hughes Aircraft Company. Shift register controlled analog memory system. 3,478,323, 11-11-69, Cl. 340-173.

Rado, Julius: *See—*
Freedman, Jerome D.; and Rado, Julius,3,424,418.

Rado, Theodore A.: *See—*
Schumacher, Joseph C.; Rado, Theodore A.; and Fairchild, James L.,3,450,497.

Radoff, Martin. Process for forming yarns from certain woven or knit textiles. 3,453,816, 7-8-69, Cl. 57-155.

Radscheit, Kurt: *See—*
Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Ruschig, Heinrich,3,468,918.
Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt,3,455,910.
Haede, Werner; Radscheit, Kurt; Fritsch, Werner; Stache, Ulrich; and Ruschig, Heinrich,3,461,145.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; Radscheit, Kurt; and Vogel, Gerhard,3,483,233.

Radtake, Edward W.: *See—*
Uric, Robert G.; and Radtake, Edward W.,3,451,473.

Radtke, Dennis L. Mink skinning machine. 3,443,275, 5-13-69, Cl. 17-21.

Radtke, Edward William, to United Aircraft Corporation. Pneumatic air temperature control for aircraft cabins. 3,463,390, 8-26-69, Cl. 236-13.
Radtke, Norbert V.: *See—*
Strom, Bertil; and Radtke, Norbert V.,3,423,887.
Radtke, Robert R.; and Arvanigian, George B., to International Paper Company. Wrapper. 3,486,681, 12-30-69, Cl. 229-40.
Radtke, Schrade F., to International Lead Zinc Research Organization, Inc. Storage battery grid and method for making grid. 3,458,355, 7-29-69, Cl. 136-38.
Radtke, Warren K.: *See—*
Frederiksen, Thomas R.; and Radtke, Warren K.,3,429,462.
Radus Harvey. Artificial foliage mounting. 3,458,384, 7-29-69, Cl. 161-27.
Radus, Raymond J., to Westinghouse Electric Corporation. Magnetostrictive load cells. 3,453,876, 7-8-69, Cl. 73-141.
Rady, Ronald E. Toy playhouse with changeable inserts. 3,466,790, 9-16-69, Cl. 46-21.
Radyne Limited: *See—*
Greenfield, Stanley; Jones, Iorwerth Llewelyn William; and Christopher Thomas, 3,467,471.
Radyne Ltd.: *See—*
Renaud, Edward H.; and Gilpin, William W. R., 3,444,029.
Radziwill, Maciej; and Broel-Plater, Andrzej. Engine or power driven machine with rotary piston. 3,450,107, 6-17-69, Cl. 123-8.
Rae Motor Corporation: *See—*
Petersen, Allen J.; and Hansen, Everett K., 3,431,445.
Petersen, Allen J.; and Hansen, Everett K., 3,431,446.
Rae, Randolph S. Planing boat. 3,469,549, 9-30-69, Cl. 114-66.5
Raeber, Victor, to Ateliers de Constructions Mecaniques de Vevey S. A. Method and means for controlling the double adjustment of a hydraulic machine. 3,447,550, 6-3-69, Cl. 137-16.
Raeburn, Robert A.: *See—*
Carr, Frank B.; Carter, Theodore; Raeburn, Robert A.; and De Chistino, Albert J.,3,455,042.
Raes, Andre: *See—*
Brichard, Edgard; and Raes, Andre,3,470,776.
Raether, Siegfried, to Kalle Aktiengesellschaft. Process for the preparation of an aluminum support for presensitized planographic printing plates. 3,481,798, 12-2-69, Cl. 148-6.27
Raetz, Robert C., to Honeywell Inc. Automatic and fine pressure control apparatus. 3,429,325, 2-25-69, Cl. 137-85.
Raevsky, Georgy Vladimirovich. Supporting device for rotary multiple-support kilns. 3,436,062, 4-1-69, Cl. 263-33.
Rafael, Hans: *See—*
Soiron, Charles; Rafael, Hans; and Stockar, Walter,3,467,486.
Rafanelli, Arthur C. Juice extracting machine. 3,478,796, 11-18-69, Cl. 146-174.
Rafanelli, Renzo. Device for the automatic regulation of the timing of the inlet and exhaust valves of a four-cycle internal combustion engine. 3,441,009, 4-29-69, Cl. 123-90.
Raff, Paul: *See—*
Kiefer Hans; Raff, Paul; and Schuster, Ludwig,3,432,552.
Raffaelli, Milo L., Sr., to Scholl Mfg. Co., Inc., The. Surgical pads. 3,482,569, 12-9-69, Cl. 128-153.
Raffel, Jack I., to Massachusetts Institute of Technology. High capacity memory circuit arrangement. 3,452,342, 6-24-69, Cl. 340-174.
Raffel, Jerome M.; and Fontaine, Robert R. Telemetry for intraunit railroad control. 3,482,089, 12-2-69, Cl. 246-182.
Raffin, Joseph, to Electronic Specialty Company. Aluminum base alloy. 3,475,166, 10-28-69, Cl. 75-141.
Rafos, Robert R., to Standard Oil Company, The (Ohio). Nitrile composite electrodes. 3,476,603, 11-4-69, Cl. 136-22.
Rafos, Robert R.; and Farrington, Diane G., to Standard Oil Company, The (Ohio). Guanamines. 3,471,490, 10-7-69, Cl. 260-249.9
Ragan, Brad, Inc.: *See—*
Ragan, Bradley E., 3,464,874.
Ragan, Bradley E., 3,472,714.
Ragan, Bradley E., to Ragan, Brad, Inc. Method of building a lugged tread on a heavy duty tire. 3,464,874, 9-2-69, Cl. 156-96.
Ragan, Bradley E., to Ragan, Brad, Inc. Method of rebuilding previously used tires. 3,472,714, 10-14-69, Cl. 156-96.
Ragan, James B., to Ways & Means, Inc. Mixing container. 3,441,179, 4-29-69, Cl. 222-129.
Ragan, James B.: *See—*
de Greeve, Harry V.; and Ragan, James B.,3,434,906.
Ragard, Phillip A.; and Welch, Robert F., to Universal Instruments Corporation. Component lead clinching device. 3,435,857, 4-1-69, Cl. 140-71.
Ragard, Phillip A.: *See—*
Ackerman, Daniel W.; Holmes, Robert H.; and Ragard, Phillip A.,3,455,493.
Ragen, Jack R.; and Loughry, Donald J., to Avco Corporation. Polarized color optical communication system. 3,457,414, 7-22-69, Cl. 250-199.
Ragen Precision Industries, Inc.: *See—*
Irazoqui, Carlos A., 3,421,802.
Irazoqui, Carlos A., 3,456,817.
Ragen, Robert A., to Friden, Inc. Delay line transit time control system. 3,435,351, 3-25-69, Cl. 328-56.
Ragen, Robert A., to Friden, Inc. Printing system with helical arrangement of type on type wheel. 3,442,364, 5-6-69, Cl. 198-16.
Ragen, Robert A., to Friden, Inc. Drive circuit. 3,466,507, 9-9-69, Cl. 317-148.5
Ragen, Robert A.; and Herendeen, Carl E., to Friden, Inc. Electronic calculator for performing restoring decimal division. 3,474,238, 10-21-69, Cl. 235–160
Ragettli, Christian, to Metal Containers Limited. Filament wound vessel. 3,486,655, 12-30-69, Cl. 220-3.
Raggenbass, Andre: *See—*
Lefevre, Jean; Prospert, Jacques; and Raggenbass, Andre,3,485,763.
Raggio, Louis J.: *See—*
Holm, Allan P.; and Raggio, Louis J.,3,480,401.
Ragland, Benjamin. Electrostatic precipitator with electrode tensioning means. 3,425,190, 2-4-69, Cl. 55-147.
Ragland, Evan L., III; and Wiedeman, Charles W., Jr., to Friden, Inc. Font wheel aligning device. 3,442,365, 5-6-69, Cl. 197-53.
Ragon, Carl A.; and Rogers, James F., deceased0 (by Rogers, Norine H.; administratrix). Motor-driven exercising apparatus. 3,450,132, 6-17-69, Cl. 128-25.
Ragot, Robert L.: *See—*
Thomas, John F.; and Ragot, Robert L.,3,424,121.
Ragsdale, George S.: *See—*
Turner, William E.; and Ragsdale, George S.,3,422,951.
Ragsdale, George, to Ogallala Electronics Mfg., Inc. Heat exchange apparatus for cooling electromagnetic devices. 3,437,965, 4-8-69, Cl. 336-61.
Ragsdale, La Verne B.: *See—*
de Claire, James H.; Ragsdale, La Verne B.; and Sprecher, Raymond G.,3,436,049.
Ragsdale, Sam P. Gas weight flow computer for providing the ratio of two pressures. 3,440,411, 4-22-69, Cl. 235-151.34
Raguin, Jean; and Rouanet, Jean, to Institut de Recherches de la Siderurgie Francaise. Continuous steel making process. 3,486,882, 12-30-69, Cl. 75-51.
Ragusa, Peter A., to United States of America, Air Force. Transient simulator. 3,465,172, 9-2-69, Cl. 307-265.
Raha-Automaattiyhdistys: *See—*
Martti, Lauri, 3,455,426.
Martti, Lauri, 3,469,669.
Rahaim, Thomas J.: *See—*
Fantozzi, Dominick M.; De Witt, Stewart H.; and Rahaim, Thomas J.,3,422,620.
Rahaim, William G., to Decatur Plastic, Inc. Reel cannister with improved lock. 3,447,673, 6-3-69, Cl. 206-52.
Rahberger, Edward J. Spring actuated target throwing device. 3,420,219, 1-7-69, Cl. 124-8.
Rahenkamp, Robert A., to International Business Machines Corporation. Print element process for multilingual communations. 3,429,986, 2-25-69, Cl. 178-2.
Rahm, Howard E.; and Brimmer, David L., to Midland-Ross Corporation. Transferor wheel and method of making same. 3,423,268, 1-21-69, Cl. 156-250.
Rahmel, Henry A., to Nielsen, A. C., Company. Audience measuring system. 3,453,641, 7-1-69, Cl. 346-1.
Rahmes, Donald W.: *See—*
Bruner, Robert L.; and Rahmes, Donald W.,3,485,776.
Rahmes, Donald W., to Johnson & Johnson. Power transmission belt. 3,436,978, 4-8-69, Cl. 74-232.
Rahn Corporation, The: *See—*
Hoover, James E., 3,458,126.
Rahn, Henry W.: *See—*
McConnell, William C.; and Rahn, Henry W.,3,449,108.
Rahn, Henry W.; and Richardson, Kenneth W., to PPG Industries, Inc. Removal of adhering deposits from externally cooled conduits. 3,475,258, 10-28-69, Cl. 165-1.
Rahn, Herbert: *See—*
Frech, Gunther; Kaiser, Wolfgang; and Rahn, Herbert,3,440,600.
Rahr, Gordon J.: *See—*
Mackie, Charles G.; and Rahr, Gordon J.,3,438,577.
Rahrig, Donald D.; and Ferguson, Charles W., to Libbey-Owens-Ford Company. Edge grinding machine. 3,448,547, 6-10-69, Cl. 51-99.
Rahrig, Donald D.; Ritter, George F., Jr.; and Carson, Frank J., to Libbey-Owens-Ford Glass Company. Glass sheet supporting and conveying apparatus with means to change the contour of the conveyor. 3,485,615, 12-23-69, Cl. 65-181.
Rahtz, Dieter: *See—*
Priewe, Hans; Rahtz, Dieter; Hempel, Reinhard; and Richter, Helmer,3,423,413.
Rai Charanjit, to Union Oil Company of California, mesne. Ferrocene derivatives as ultraviolet absorbers and scintillation agents. 3,461,287, 8-12-69, Cl. 250-71.5
Rai, Charanjit; and Krueger, Arthur Frederic, to Broadview Chemical Corporation. Metal sealant containing aminoalkoxyalkylamine accelerator. 3,454,543, 7-8-69, Cl. 260-86.1
RAI Research Corporation: *See—*
Scardaville, Paul; Wetherell, Thomas; and Sears, Lawrence, 3,427,206.

Rai, Vishva R.; and Schwartz, Howard J., to Lithium Corporation of America, Inc. Preparation of concentrated alkyllithium solutions. 3,438,420, 4-15-69, Cl. 159-49.
Raia, Richard M.; and Sullivan, Robert T., to Polaroid Corporation. Photographic apparatus. 3,451,321, 6-24-69, Cl. 95-11.
Raible, Clarence J.: *See—*
Clardy, Edwin K.; and Raible, Clarence J.,3,457,774.
Raible, Donald A.; Bentley, Donald J.; and DeWall, Richard A., to Bentley Laboratories, mesne. Blood oxygenator with heat exchanger. 3,468,631, 9-23-69, Cl. 23-258.5
Raible, Donald A.: *See—*
Fogarty, Thomas J.; Raible, Donald A.; and Stark, William A.,3,467,101.
Stark, William A.; and Raible, Donald A.,3,448,739.
Raible, Karl J., to Aktiengesellschaft fur Brauereiindustrie. Method of treating beer with adsorbing agents. 3,436,225, 4-1-69, Cl. 99-48.
Raicevic, Dusan, to Quebec Iron and Titanium Corporation. Process for producing a product high in titanium dioxide content. 3,428,427, 2-18-69, Cl. 23-202.
Raichle, Karl: *See—*
Dhein, Rolf; and Raichle, Karl,3,474,060.
Dhein, Rolf; Raichle, Karl; and Schnell, Hermann,3,434,987.
Raichle, Karl; Bruhne, Friedrich; Prater, Klaus; Nischk, Gunther; and Andres, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Polyester compression moulding masses. 3,467,619, 9-16-69, Cl. 260-40.
Nentwig, Joachim; Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebauer, Herbert,3,437,616.
Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebnauer, Herbert,3,477,977.
Raichle, Ludwig: *See—*
Diebold, Adolf; Raichle, Ludwig; and Dussel, Wilhelm,3,441,232.
Raichle, Ludwig; Werminghausen, Bernhard; and Unterstenhoefer, Leo, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Elastic surfaces for sportsgrounds, playgrounds and footpaths. 3,446,122, 5-27-69, Cl. 94-7.
Stockburger, Dieter; Sinn, Richard; Raichle, Ludwig; Buschmann, Karl; and Stege, Wolf-Dieter,3,449,238.
Raidel, John E. Suspensions. 3,434,707, 3-25-69, Cl. 267-31.
Raidel, John E. Multiple joint tandem suspensions. 3,471,165, 10-7-69, Cl. 280-104.5
Raidel, John E. Trailer dolly. 3,482,853, 12-9-69, Cl. 280-124.
Raidl, John H.; Solter, Robert L.; and Hansen, Franklin A., to Continental Disc Corporation. Safety pressure relief device. 3,445,032, 5-20-69, Cl. 220-89.
Raiffie, Leonard E.: *See—*
Leve, Norman I.; and Raiffie, Leonard E.,3,451,369.
Raigorodskaja, Valentina Jakovlevna: *See—*
Kuljbakh, Valjter Osvaljdovich; Sokolov, Leonid Borisovich; Sveshnikov, Jury Fedorovich; Kuznetsova, Olja Alexandrovna; Malinovskaja, Galina Nickolaevna; and Raigorodskaja, Valentina Jakovlevna,3,439,090.
Kuljbakh, Valjter Osvaljdovich; Rabinovich, Nina Abramovna; and Raigorodskaja, Valentina Jakovlevna,3,450,718.
Kuljbakh, Valjter Osvaljdovich; and Raigorodskaja, Valentina Jakovlevna,3,467,680.
Raigorodsky, Leonard Markovich: *See—*
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.
Raila, Edward S.: *See—*
Matthysse, Irving F.; Raila, Edward S.; Osborn, William G.; and Brautigam, John J.,3,427,549.
Railey, James J. Boat trailer with tiltable and rotatable boat cradle frame. 3,458,074, 7-29-69, Cl. 214-505.
Raillard, Heinz; and Wolf, Irving W., to General Electric Company. Continuous thin magnetic film storage device. 3,439,349, 4-15-69, Cl. 340-174.
Railroad Accessories Corporation: *See—*
Moe, James E., 3,423,635.
Reinitz, Willard O., 3,444,512.
Railroad Machinery Development Corporation: *See—*
Rogers, Edward Laurence, 3,439,524.
Rails Company, The: *See—*
Burwell, Garwood N., 3,484,601.
Railsback, Henry E., to Phillips Petroleum Company. Activated charcoal in rubber compounding. 3,420,913, 1-7-69, Cl. 260-763.
Railtron Corporation: *See—*
Pelino, William M., 3,440,416.
Railway Communications, Inc.: *See—*
Collins, John J.; and Dye, Charles E., 3,452,272.
Railway Express Agency, Incorporated: *See—*
Tuchman, Martin, 3,480,095.
Rain Jet Corporation: *See—*
Hruby, John O., Jr., 3,447,749.
Hruby, John O., Jr., 3,481,541.
Rainbow Crafts, Inc.: *See—*
Meth, Harry, 3,426,888.
Meth, Harry, 3,453,991.
Meth, Harry, 3,464,599.
Raine, Roydon Henry Gurney, to Molins Machine Company Limited. Information retrieval system. 3,484,055, 12-16-69, Cl. 242-181.
Raine, Thomas: *See—*
Knapon, Arthur George; and Raine, Thomas,3,450,573.
Rainer, Charles W., to Honeywell Inc. Fluid circuit. 3,457,937, 7-29-69, Cl. 137-81.5
Rainer, Erich: *See—*
Brunner, Julius; and Rainer, Erich,3,483,456.
Brunner, Julius; and Rainer, Erich,3,486,099.
Krestel, Erich; and Rainer, Erich,3,440,506.
Rainero, Aldo A., Jr.: *See—*
Rossi, Emil R.; and Rainero, Aldo A., Jr.,3,469,997.
Raines, Russell H., to Union Carbide Corporation. Lubricating composition containing a bicyclo[2.2.1] hept-2-ene/N-hydrocarbylmaleimide polymer. 3,472,774, 10-14-69, Cl. 252-51.5
Rainey, Carl Max, to Chicago Bridge & Iron Company. Welding apparatus. 3,444,349, 5-13-69, Cl. 219-126.
Rainey, Don E. Display and vending apparatus. 3,433,545, 3-18-69, Cl. 312-42.
Rainey, Marsdon P. Impact tool. 3,435,862, 4-1-69, Cl. 145-50.
Rainey, Walton, to Thomas & Betts Corporation. High speed wire cut-off machine. 3,477,326, 11-11-69, Cl. 83-296.
Rainone, Louis C.: *See—*
Damiano, Henry; and Rainone, Louis C.,3,479,466.
Rains, Cloral O., to Phillips Petroleum Company. Method of bonding non-woven textile webs. 3,452,128, 6-24-69, Cl. 264-126.
Rains, David B.: *See—*
Wheatley, Seth J.; and Rains, David B.,3,484,391.
Rainwater, Joe H.: *See—*
Beck, Roderick G.; and Rainwater, Joe H.,3,459,562.
Rainwater, Orman M. Articulated multi-section shelter or frame structure. 3,469,588, 9-30-69, Cl. 135-5.
Rainwater, Walter J.: *See—*
Johnson, Jim H.; Rainwater, Walter J.; and Standefer, John E.,3,473,096.
Raion Yushi Kabushiki Kaisha: *See—*
Susuki, Rinnosuke; and Hoshi, Hiroshi, 3,430,845.
Rairden, John R., III; and Furey, James T., to General Electric Company. High purity niobium films formed by glow discharge cathode sputtering. 3,432,416, 3-11-69, Cl. 204-192.
Rairden, John R., III: *See—*
Neugebauer, Constantine A.; Rairden, John R., III; and Joynson, Reuben E., Jr.,3,436,258.
Raisch, Lee S., to Universal Metal Hose Company. Annular corrugating apparatus for tubing. 3,486,357, 12-30-69, Cl. 72-77.
Raisin, Jean-Pierre, to Institut Textile de France. Yarn feed device for a knitting machine. 3,461,692, 8-19-69, Cl. 66-132.
Raisin, Jean-Pierre A.: *See—*
Helffer, Bernard Francois; Raisin, Jean-Pierre A.; and Voisin, Eugene J.,3,451,603.
Raisor, Ralph C.; and Rhees, Raymond C., to American Potash & Chemical Corporation, mesne. Preparation of borohydrides. 3,468,630, 9-23-69, Cl. 23-204.
Raithel, Kurt: *See—*
Bauerlein, Rudolf; and Raithel, Kurt,3,442,722.
Raithel, Kurt, to Siemens Aktiengesellschaft. Method of inserting manganese into semiconductors serving to produce electronic semiconductor structural components. 3,448,051, 6-3-69, Cl. 252-62.3
Raithel, Kurt; Reuschel, Konrad; and Keller, Wolfgang, to Siemens Aktiengesellschaft. Semiconductor structural component. 3,461,359, 8-12-69, Cl. 317-234.
Raiti, Angelo: *See—*
Manfredi, Dario; and Raiti, Angelo,3,437,285.
Raitt, John Stewart: *See—*
Ewart, George; and Raitt, John Stewart,3,432,261.
Raizes, Sheldon F., to Bendix Corporation, The. Pressure failure warning device. 3,434,286, 3-25-69, Cl. 60-54.5
Rajac, Thomas J.: *See—*
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr.,3,473,212.
Clark, Kendall; Rajac, Thomas J.; Santillo, George R., Jr.; and Schuelke, Walter J.,3,453,714.
Ficker, Walter W.; Rajac, Thomas J.; and Stricker, Alfred A.,3,443,707.
Rajamannan, Ambrose H. J. Live cell diluent and process. 3,431,172, 3-4-69, Cl. 195-1.8
Rajamannan, Ambrose Harry Jesudasan. Freezable live cell diluent and process. 3,444,039, 5-13-69, Cl. 195-1.8
Rajan, Krishnaswamy S.; and Casolo, Angelo J., to United States of America, Interior. Inorganic ion exchange membranes for use in electrical separatory processes. 3,479,266, 11-18-69, Cl. 204-180.

Rajan, Krishnaswamy S.; and Casolo, Angelo J., to United States of America, Interior. Inorganic ion exchange membranes for use in electrical separatory processes. 3,479,267, 11-18-69, Cl. 204-180.

Rajnoha, Jaroslav; and Bures, Ladislav, to Vyrkumny ustav Bavlnarsky. Apparatus for spinning of fibrous material. 3,455,097, 7-15-69, Cl. 57-58.95

Rajsner, Miroslav: *See—*
Protiva, Miroslav; Rajsner, Miroslav; and Metysova, Jirina,3,487,085.

Rak, Arthur: *See—*
Brown, Richard P.; Lancor, Joseph H., Jr.; and Rak, Arthur,3,457,006.

Rak, Stanley F., to Culligan, Inc. Drinking water treatment apparatus. 3,456,803, 7-22-69, Cl. 210-177.

Rakacs, Joseph G.: *See—*
Blackwood, John; La Police, George D.; and Rakacs, Joseph G.,3,444,833.

Rakatansky, Harold, to Imperial Knife Associated Companies, Inc. Portable pneumatically operated clamp for gripping a group of elongated spaced parallel articles for finishing operations. 3,432,159, 3-11-69, Cl. 269-20.

Rakes, James L.; Rees, Robert L.; and Held, Edward C., Jr.,, to Phillips Petroleum Company. Method of rotational molding. 3,474,165, 10-21-69, Cl. 264-312.

Rakes, Rodney G.; and Fink, Richard A., to Sperry Rand Corporation. Single sensor brushless D. C. motor. 3,453,514, 7-1-69, Cl. 318-138.

Rakestraw, James A.; and Lees, Norman W.F., to Shell Oil Company. Production of detergent alkylate. 3,483,265, 12-9-69, Cl. 260-671.

Rakestraw, Robert H. Conveying and orientation apparatus particularly for tobacco leaves. 3,439,793, 4-22-69, Cl. 198-33.

Rakestraw, Robert H. Tobacco priming apparatus. 3,466,856, 9-16-69, Cl. 56-27.

Rakocz, Laszlo L.: *See—*
Aranyi, Steven F.; Barlow, Jesse P.; Rakocz, Laszlo L.; and Torfeh, Mark A.,3,440,616.

Rakoczi, Laszlo L.: *See—*
Barlow, J. P.; and Rakoczi, Laszlo L.,3,473,158.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,444,525.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,487,373.
Barton, Richard; Hittel, Lorenz A.; Rakoczi, Laszlo L.; and Wiener, Jerome B.,3,469,241.
Belt, John E.; Hittel, Lorenz A.; and Rakoczi, Laszlo L.,3,480,916.
Broderick, William J.; Frasier, Carlton R.; Hittel, Lorenz A.; Hope, George R., Jr.; Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,483,520.
Figueroa, John W.; Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,475,730.
Frasier, Carlton R.; Hittel, Lorenz A.; Hudson, James R.; Rakoczi, Laszlo L.; Sansbury, David L.; and Wiener, Jerome B.,3,483,521.
Porcelli, Ernest J.; and Rakoczi, Laszlo L.,3,475,729.

Rakoff, Frank B.: *See—*
Gross, Seymour; Downes, William A.; and Rakoff, Frank B.,3,469,821.

Ralcigh Industries Limited: *See—*
Adcock, Frederick A., 3,485,113.
Adcock, Frederick Arthur, 3,485,114.
Fox, Leonard Haydn, 3,433,097.

Raley, Garland E., to Ethyl Corporation. Rotatable coupling. 3,462,174, 8-19-69, Cl. 285-14.

Raley, John H.: *See—*
Barnett, Kenneth W.; and Raley, John H.,3,459,826.
Cannell, Lawrence; Magoon, Eugene F.; and Raley, John H.,3,424,815.
Henderson, David W.; and Raley, John H.,3,439,061.
Magoon, Eugene F.; Cannell, Lawrence G.; and Raley, John H.,3,483,269.

Ralke, William C.; and Duncan, Jack K. Projector light source. 3,469,145, 9-23-69, Cl. 315-200.

Rall, Waldo: *See—*
Box, William A.; and Rall, Waldo,3,467,058.

Ralph, Harold J. Loin garment for absorbent pads. 3,441,024, 4-29-69, Cl. 128-287.

Ralph, Harold J. Sanitary garment for incontinent persons. 3,441,025, 4-29-69, Cl. 128-289.

Ralphs, John Dennis: *See—*
Broom, Ronald Francis Johnston; Hilsum, Cyril; Bayley, Donald; and Ralphs, John Dennis,3,443,109.

Ralphs, Robert E.: *See—*
Bixler, Kenneth D.; and Ralphs, Robert E.,3,482,679.

Ralphs Unified Limited: *See—*
Boddy, Harold Albert, 3,464,073.

Ralston, Anthony, to United States of America, Army, mesne. Track initiation system. 3,460,137, 8-5-69, Cl. 343-5.

Ralston, Bobby J., to General Electric Company. Means to connect an automatic washing machine to a water faucet. 3,444,890, 5-20-69, Cl. 137-562.

Ralston, Paul H., to Calgon Corporation. Scale inhibiting. 3,434,969, 3-25-69, Cl. 210-58.

Ralston, Paul H., to Calgon Corporation. Threshold compositions and methods. 3,451,939, 6-24-69, Cl. 252-181.

Ralston, Paul H.: *See—*
Hatch, George B.; and Ralston, Paul H.,3,483,133.

Ralston Purina Company: *See—*
Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A., 3,468,669.
Hale, Douglas, 3,447,929.
Hale, Douglas; and Flier, Ronald J., 3,467,525.

Ralston, Robert E. Power-operable fastener applying device. 3,480,193, 11-25-69, Cl. 227--130

Ralston, William K., to International Harvester Company. Cord holder keeper. 3,430,998, 3-4-69, Cl. 289-14.

Ralston, William K., to International Harvester Company. Self stripping wire twister for wire balers. 3,450,029, 6-17-69, Cl. 100-22.

Ralston, William K.; and Littlejohn, Bill R., to International Harvester Company. Self-stripping wire twister hook for wire balers. 3,430,554, 3-4-69, Cl. 100-31.

Ralston, William K.: *See—*
May, Patrick L.; and Ralston, William K.,3,431,837.

Ralston, Wilson P., to Perkin-Elmer Corporation. Filament protection for hot wire detectors. 3,470,355, 9-30-69, Cl. 219-505.

Ram Domestic Products Company: *See—*
Romanelli, Pat, 3,429,313.

Ram, Gerson L. Metering safety cap device. 3,481,513, 12-2-69, Cl. 222-490.

Ram Tool Corporation: *See—*
Tsergas, Athanase N., 3,458,793.
Tsergas, Athanase N., 3,478,264.
Tsergas, Athanase N., 3,483,470.

Ramaika, Lawrence T., to Scott Paper Company. Pressure injection apparatus. 3,461,498, 8-19-69, Cl. 18-12.

Ramakers, Theodoor Hubertus, to Meubelindustrie 'Thereca' N.V. Furniture connecting means. 3,469,869, 9-30-69, Cl. 287-54.

Ramaley, Edward J.; and Wilcox, Norman G., to Martin-Marietta Corporation. Method and apparatus for non-destructive testing of resistance welds. 3,443,056, 5-6-69, Cl. 219-109.

Ramaley, Edward J.: *See—*
Wilcox, Norman G.; Croucher, William C.; and Ramaley, Edward J.,3,449,541.

Raman, Anantha K. S., to Esso Research and Engineering Company. Process for removing sulfur oxides from gases. 3,454,356, 7-8-69, Cl. 23-2.

Raman, Rasipuram Subramanya Kalyana; and Tracey, Victor Allen, to International Nickel Company, Inc., The. Method of sintering maraging steel with boron additions. 3,451,809, 6-24-69, Cl. 75-208.

Raman, Rasipuram Subramanya Kalyana: *See—*
Tracey, Victor Allen; and Raman, Rasipuram Subramanya Kalyana,3,453,103.

Raman, Ruue, to Arenco Electronics AB. Device for measuring physical quantity. 3,464,042, 8-26-69, Cl. 336-20.

Ramanathan, Visvanathan, to Ciba Limited. Water-insoluble monoazo dyestuffs containing N-benzyl- N-cyanoethly groups. 3,483,180, 12-9-69, Cl. 260-158.

Rambauske, Werner; and Mestwerdt, Hermann R., to United States of America, Air Force. Pumping system for pulsed lasers. 3,460,054, 8-5-69, Cl. 331-94.5

Ramberg, Ingwald L. Machine tool indexing assembly. 3,466,949, 9-16-69, Cl. 74-813.

Rambie, Edward J.: *See—*
Rofe, Duane H.; Rambie, Edward J.; and McCartney, John M.,3,482,808.

Rambousek, Zdenek; Svaty, Vladimir; and Taticek, Lubomir, to Elitex, Zavody textilniho strojirenstvi. Shuttle and guiding structure therefor. 3,424,206, 1-28-69, Cl. 139-188.

Rambousek, Zdenek: *See—*
Svaty, Vladimir; Rambousek, Zdenek; and Nadvornik, Josef,3,435,854.

Rambow, Walter. Display device for objects such as coins and the like. 3,474,897, 10-28-69, Cl. 206-0.84

Ramcke, Carsten, to Barmer Maschinenfabrik A.G. Control and switching device in mechanically or hydraulically operated traverse-motion systems in spinning, spooling and especially ring twist machines. 3,429,515, 2-25-69, Cl. 242-26.3

Ramcon Corporation: *See—*
Raymond, Frank J., Jr., 3,430,916.

Ramer, Paul C. Locking tool holder. 3,450,317, 6-17-69, Cl. 224-5.

Ramey, Kermit C.: *See—*
Lini, David C.; Ramey, Kermit C.; and Wise, William B.,3,465,043.

Ramey, Robert A., Jr., to Westinghouse Electric Corporation. Method and apparatus for the manufacture of glass envelopes. 3,460,929, 8-12-69, Cl. 65-67.
Ramey, Robert L.; and: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,420,704.
Ramge, Joseph J. Automatic index mechanism. 3,443,481, 5-13-69, Cl. 90-56.
Ramires, Walter C. Incinerator for burning combustible waste and method. 3,476,062, 11-4-69, Cl. 110-8.
Ramirez, Carmen L.: *See—*
Blom, Kenneth M.; and Ramirez, Carmen L.,3,438,300.
Ramirez, Ernest R., to Howmet Corporation. Method of forming cemented carbide coatings on metal surfaces by employing volatile, organic liquid solvents and organic binders. 3,475,161, 10-28-69, Cl. 117-46.
Ramirez, Jose L. Separation of kainite from potassium chloride by flotation. 3,447,681, 6-3-69, Cl. 209-166.
Ramirez, Jose L. Separation of schoenite by flotation. 3,456,791, 7-22-69, Cl. 209-166.
Ramler, Warren J.: *See—*
Johnson, Kenneth W.; Klippert, Thomas Edward; and Ramler, Warren J.,3,457,517.
Ramlink Holdings (Proprietary) Limited: *See—*
Smulowitz, Joseph; and Steinberg, Samuel, 3,427,553.
Ramloch, Herbert: *See—*
Beermann, Claus; Ramloch, Herbert; and Rosinger, Sigurd,3,481,849.
Rammel, Gerald E.; Taylor, Everett W.; and Charon, Clarence W., to Owens-Corning Fiberglas Corporation. Texturizable fibrous glass yarns and methods for their manufacture. 3,472,682, 10-14-69, Cl. 117-126.
Rammel, Gerald E.: *See—*
Haynes, Harold L.; Rammel, Gerald E.; and Morrison, Albert R.,3,461,090.
Marzocchi, Alfred; and Rammel, Gerald E.,3,462,254.
Rammelt, Peter-Paul: *See—*
Scherer, Otto; Korinth, Jurgen; and Rammelt, Peter-Paul,3,446,721.
Ramney Industries Corporation: *See—*
Ramsey, Thomas J., 3,470,679.
Ramo, Oliver H., to Abington Textile Machinery Works, Inc. Vacuum cleaning apparatus for removing industrial waste from machinery such as textile machinery. 3,471,890, 10-14-69, Cl. 15-301.
Ramon, Gino. Hook attachment for shovels. 3,441,306, 4-29-69, Cl. 294-59.
Ramon, Gino. Attachments for shovels. 3,442,545, 5-6-69, Cl. 294-59.
Ramos, Joseph: *See—*
McLaughlin, Homer C.; and Ramos, Joseph,3,435,899.
Ramos, Thomas. Method of making resinous epoxy prepolymers and curing of same. 3,446,756, 5-27-69, Cl. 260-2.
Ramos, Thomas. Resinous compositions and method of making same. 3,450,654, 6-17-69, Cl. 260-18.
Rampe, John F. Vibratory finishing machine. 3,449,869, 6-17-69, Cl. 51-163.
Rampe, John F. Liquid-cooled processing vessel. 3,467,319, 9-16-69, Cl. 241-67.
Rampp, Egon: *See—*
Loffler, Josef; Rampp, Egon; and Schall, Hans,3,476,378.
Ramquist, Frederick C.: *See—*
Gleim, William K. T.; Wackher, Richard C.; and Ramquist, Frederick C.,3,465,055.
Ramrath, Joseph M.: *See—*
Harper, William E.; and Ramrath, Joseph M.,3,446,928.
Ramsay, Howard L.: *See—*
Brill, Harold C.; Gulledge, Hugh C.; and Ramsay, Howard L.,3,483,068.
Ramsay, Joseph D., to Campbell Soup Company. Level control system. 3,448,778, 6-10-69, Cl. 141-83.
Ramsay, Marcus, to Olin Mathieson Chemical Corporation. Pipe gripping and flaring apparatus. 3,434,709, 3-25-69, Cl. 269-48.1
Ramsay, Marcus, to Olin Mathieson Chemical Corporation. Caseless cartridge chamber-sleeve ejector and binary feed system. 3,474,560, 10-28-69, Cl. 42-17.
Ramsay, Marcus, to Olin Mathieson Chemical Corporation. Piston-rammer compression ignition assembly. 3,483,793, 12-16-69, Cl. 89-7.
Ramsel, Charles A.: *See—*
Morris, Hugh C.; Pearce, Shairyl I.; Ramsel, Charles A.; and Rohweder, Gerald D.,3,429,328.
Ramsey Controls, Inc.: *See—*
Johnston, Gerald T.; Fleming, Joseph T.; and Boyd, Robert L., 3,465,233.
Ramsey Corporation: *See—*
McCormick, Harold E., 3,440,122.
McCormick, Harold E.; and Schmitt, Robert E., 3,462,333.
Prasse, Herbert F., 3,421,198.
Prasse, Herbert F.; and Mayhew, Donald J., 3,456,952.
Prasse, Herbert F.; and Mayhew, Donald J., 3,456,954.
Schmidt, Earl O.; and Anderson, Roy D., 3,460,846.
Stratton, Philip G., 3,481,611.
Ramsey Engineering Company: *See—*
Hill, John L., 3,459,378.
Ramsey, James E. Tiltable cot with reciprocal motion attachment. 3,441,014, 4-29-69, Cl. 128-33.
Ramsey, John R. Drum beater device. 3,439,574, 4-22-69, Cl. 84-422.
Ramsey, Keith W.; and Dunnill, John H., to British Nylon Spinners Limited. Process for increasing the molecular weight of a polyamide in the solid state. 3,420,804, 1-7-69, Cl. 260-78.
Ramsey, Kenneth C.; and Morris, Walter. Electrolytic plating tank. 3,450,625, 6-17-69, Cl. 204-237.
Ramsey, O. W.: *See—*
De Berry, James F., 3,465,464.
Ramsey, Raymond B.: *See—*
Cogelin, Nicholas J.; Martin, Samuel M.; and Ramsey, Raymond B.,3,433,884.
Gressitt, Tillman J.; and Ramsey, Raymond B.,3,459,878.
Ramsey, Richard T.: *See—*
Silvia, Denis A.; Ramsey, Richard T.; and Spencer, John H.,3,430,564.
Ramsey, Thomas H., Jr.; Van Tassel, James H.; and Abraham, Richard P., to Texas Instruments, Incorporated. Method for the fabrication of integrated circuits. 3,453,722, 7-8-69, Cl. 29-577.
Ramsey, Thomas J., to Ramney Industries Corporation. Workbench with filtered laminar flow of clean air. 3,470,679, 10-7-69, Cl. 55-473.
Ramsey, Wallace Burton; and De Lapp, Darwin Fiske, to American Cyanamid Company. Mar-resistant plastic sheet and process for producing same. 3,421,928, 1-14-69, Cl. 117-76.
Ramsey, Willard A.; and Bolding, Charles E., to Her Majesty Industries, Inc. Automatic cornely embroidery system. 3,459,144, 8-5-69, Cl. 112-2.
Ramsey, Willard A.; and Bolding, Charles E., to Her Majesty Industries, Inc. Self-programmed automatic embroidery system. 3,459,145, 8-5-69, Cl. 112-121.11
Ramsey, Willard A.; and Colin, Aaron G., to Her Majesty Underwear Company. Apparatus for feeding, severing and folding labels and presenting same in succession for use. 3,484,098, 12-16-69, Cl. 270-83.
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E., to Her Majesty Underwear Company. Stacking mechanism. 3,438,625, 4-15-69, Cl. 271-68.
Ramsey, Willard A.; Coln, Aaron G.; and Owens, Horace E., to Her Majesty Industries, Inc. Apparatus and method for stacking apparel and like articles. 3,485,490, 12-23-69, Cl. 271-68.
Ramsey, William J.; Jepson, James O.; and Wood, David H., to United States of America, Atomic Energy Commission. Preparation of plutonium. 3,442,642, 5-6-69, Cl. 75-84.1
Ramsley, Alvin O. Apparatus for evaluating the effectiveness of camouflage against detection by infrared photography. 3,422,266, 1-14-69, Cl. 250-71.
Ramstetter, Otto. Mechanical scanning device having disengageable scanning and driving means for program control cards. 3,479,473, 11-18-69, Cl. 200-46.
Ramstrom, Lee W.: *See—*
Smith, Stanley K.; and Ramstrom, Lee W.,3,486,460.
Ramusino, Francesco Cotta: *See—*
Galbarini, Maso; and Ramusino, Francesco Cotta,3,482,474.
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred, deceased,0 (by Dornow, Gerda0Dornow, Hartmut0Dornow, Volker; heirs), to Hoffmann-La Roche Inc. Novel nitrogen-containing heterocyclic compounds. 3,453,277, 7-1-69, Cl. 260-250.
Ranby, Peter Whitten; and Norris, Malcolm Owen, to Thorn Electrical Industries Limited. Control system for electroluminescent image retaining-panel. 3,454,830, 7-8-69, Cl. 315-311.
Ranby, Peter Whitten; and Palowkar, David Richard, to British Lighting Industries Limited. Manganese activated alkaline earth zinc silico-halophosphate luminescent material. 3,472,785, 10-14-69, Cl. 252-301.6
Ranc, Jean, to Robatel Slpi. Continuously operating centrifugal filters. 3,430,772, 3-4-69, Cl. 210-374.
Rance, Edwin. Object detector and method for distinguishing between objects detected including a pair of radio frequency oscillators. 3,467,855, 9-16-69, Cl. 324-3.
Ranco Incorporated: *See—*
Caldwell, Roland B., 3,422,850.
Caldwell, Roland B., 3,426,380.
Caldwell, Roland B., 3,428,115.
Caldwell, Roland B., 3,477,498.
Dahlgren, John V. S., 3,461,415.
Kulick, Andrew, 3,428,938.
Kulick, Andrew, 3,454,919.
Liebermann, John, 3,454,732.
Lorenz, Jerome L., 3,444,698.
Lorenz, Jerome L., 3,460,267.
Lorenz, Jerome L., 3,460,352.
Lorenz, Jerome L., 3,469,177.
Lorenz, Jerome L., 3,484,805.

Lybrook, Arnold T., 3,428,116.
Malavasi, Stuart H.; and Miller, Marsden L., 3,445,173.
Patterson, Richard K., Jr., 3,483,584.
Raney, Estel C., 3,443,751.
Rand Development Corporation: *See*—
Raynes, Bertram C.; and Pescatrice, Michael, 3,464,617.
Rand, Royden N., to Bausch & Lomb Incorporated. Electrophoretic process with continuous scanning. 3,432,414, 3-11-69, Cl. 204-180.
Rand, Walter Leslie; Hutton, Henry James; Toull, William Herbert; and Zouch, Leslie Eric, to Electric & Musical Industries Limited. Machines for inserting articles into bags or the like. 3,481,111, 12-2-69, Cl. 53-190.
Randa, Gerald; and Stephens, William T., to Borg-Warner Corporation. Fluid device. 3,479,963, 11-25-69, Cl. 103-162.
Randak, Alfred; Eberbach, Reinhold; Rinker, Heinz; and Treppschuh, Helmut. Process for the manufacture of steel ingots. 3,426,833, 2-11-69, Cl. 164–056
Randal, George Arthur: *See*—
Gardner, Cyril; Prescott, John Fraser; and Randal, George Arthur,3,428,690.
Randall, Billy V.: *See*—
Lummus, James L.; and Randall, Billy V.,3,472,769.
Randall, David Corbet; and Sorapure, Victor Edgar. Application of chemical substances over large areas. 3,439,875, 4-22-69, Cl. 239-8.
Randall, David I.: *See*—
Freyermuth, Harlan B.; and Randall, David I.,3,436,400.
Randall, David I.; and Freyermuth, Harlan B., to GAF Corporation. Modification of textile material with methylolated lactams. 3,486,838, 12-30-69, Cl. 8-115.5
Randall, Donald Richard; and Howard, Donald Kearey, to Geigy Chemical Corporation. Certain bis(benzotriazole) compounds. 3,452,038, 6-24-69, Cl. 260-308.
Randall, Frank E. Molding method and means and structures produced thereby. 3,478,135, 11-11-69, Cl. 264-45.
Randall, Freddie D.: *See*—
Rundell, Theodore W.; and Randall, Freddie D.,3,476,308.
Randall, Jerrold H.: *See*—
Dodson, Michael; and Randall, Jerrold H.,3,456,672.
Randall, John J.: *See*—
Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr.,3,445,350.
Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr.,3,479,160.
Moore, Lane D.; and Randall, John J.,3,442,829.
Randall, Kenneth W., to Insley Manufacturing Corporation. Hose swivel assembly for high pressure hydraulic fluid. 3,442,539, 5-6-69, Cl. 285-190.
Randall, Kenneth W., to Insley Manufacturing Corporation. Collapsible gantry for cranes. 3,471,035, 10-7-69, Cl. 212-59.
Randall, Lowell N., to Martin-Marietta Corporation. Meter for measuring unsteady fluid flow. 3,455,161, 7-15-69, Cl. 73-207.
Randall, Robert N.: *See*—
Fairbanks, Daniel F.; Larson, Warren L.; Randall, Robert N.; and Wong, James,3,476,615.
Randar, Magnus; and Olsen, Jon H., to Artos Engineering Company. Art of producing electrical terminals. 3,473,219, 10-21-69, Cl. 29-628.
Randazzo, Pasquale. Can carriers. 3,428,235, 2-18-69, Cl. 229-40.
Randel, Mortimer A. Bolt-lock means for vending machines or the like. 3,446,046, 5-27-69, Cl. 70-101.
Randell, Donald Richard: *See*—
Peterli, Hans Jakob; and Randell, Donald Richard,3,475,412.
Randell, Forrest Thompson, to Weir, G & J., Limited. Water distillation apparatus with distillate quality sensing control. 3,463,706, 8-26-69, Cl. 202-202.
Rander, Robert H.: *See*—
Booth, William M.; Doornbos, George H.; Rander, Robert H.; and Knutson, John W.,3,445,038.
Randich, Gail T.: *See*—
Jursich, Myron J.; and Randich, Gail T.,3,450,680.
Randklev, Ronald M.; and Humphries, Clarence Raymond, to Minnesota Mining and Manufacturing Company. Method of porcelain enameling metal foils. 3,476,584, 11-4-69, Cl. 117-66.
Randle, William R., to Martin-Marietta Corporation. Electronic thickness meter having direct readout of coating thickness. 3,441,840, 4-29-69, Cl. 324-34.
Randles, Arthur E., Jr. Box folding machine. 3,429,236, 2-25-69, Cl. 93-51.
Randmae, Rein S.: *See*—
Geisman, Jerome B.; and Randmae, Rein S.,3,466,124.
Rando, James J.: *See*—
Rando, Robert A.; and Rando, James J.,3,482,395.
Rando, Joseph F.: *See*—
Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F.,3,458,259.
Rando, Joseph F., to Hewlett-Packard Company. Apparatus for measuring the index of refraction of a fluid medium. 3,450,476, 6-17-69, Cl. 356-107.
Rando, Robert A.; and Rando, James J. Exhaust treating device. 3,482,395, 12-9-69, Cl. 60-30.
Randol, Glenn T. Self-adjusting linkage device for clutch actuators. 3,430,745, 3-4-69, Cl. 192-111.
Randol, Glenn T. Dual master cylinder with warning signal system. 3,431,729, 3-11-69, Cl. 60-54.5
Randol, Glenn T. Fluid-level indicator for master brake cylinders. 3,451,051, 6-17-69, Cl. 340-244.
Randol, Glenn T. Fluid-level indicator for master brake cylinders. 3,479,639, 11-18-69, Cl. 340-59.
Randolph, August: *See*—
Huckstadt, Harald; Saleck, Wilhelm; Ulrich, Hans; Randolph, August; and Grabhofer, Herbert,3,434,842.
Huckstadt, Harold; Saleck, Wilhelm; Randolph, August; and Ranz, Erwin,3,471,296.
Randolph, Clarence L., to Eagle Rubber Co., Inc. Golf ball comprising an elastomer dispersion of high molecular weight polyethylene. 3,478,132, 11-11-69, Cl. 260-889.
Randolph, Gerald L.: *See*—
Buggie, Horace H.; and Randolph, Gerald L.,3,472,989.
Randolph, John E., to Teletype Corporation. Mounting clip for flexible shafts. 3,444,701, 5-20-69, Cl. 64-3.
Randolph, John E.; and Wood, Adrian D., to Teletype Corporation. Shielded electrical inductor component. 3,461,413, 8-12-69, Cl. 336-84.
Randolph-Rand Corporation: *See*—
Reitzel, Georg, 3,429,604.
Randomatic Data Systems, Inc.: *See*—
Cross, Laurence Allan, Jr., 3,486,617.
Randour, Victor, to Caterpillar Tractor Company. Replaceable compactor wheels and mounting apparatus thereof. 3,437,383, 4-8-69, Cl. 301-22.
Randour, Victor, to Caterpillar Tractor Company. Structural connection between members subjected to high stresses. 3,484,125, 12-16-69, Cl. 287-20.3
Rane, Leo: *See*—
Osdene, Thomas S.; Rane, Leo; and Russell, Peter B.,3,423,509.
Raney, Dennis F., to American Safety Equipment Corporation of Michigan. Safety helmet sizing band. 3,465,363, 9-9-69, Cl. 2-3.
Raney, Dennis F., to American Safety Equipment Corporation. Safety helmet suspension. 3,471,866, 10-14-69, Cl. 2-3.
Raney, Dennis F.: *See*—
Molitoris, Stephen J.; Raney, Dennis F.; and Parylo, Gerald A.,3,480,966.
Raney, Estel C., to Ranco, Incorporated. Control valve for heating and cooling systems. 3,443,751, 5-13-69, Cl. 236-1.
Raney, John P.: *See*—
Evensen, David A.; and Raney, John P.,3,443,584.
Raney, Roy E., and Clark, Charles F.: *See*—
Hoffman, Paul H., 3,425,180.
Raney, William H. Portable outdoor food cooking apparatus. 3,477,360, 11-11-69, Cl. 99-339.
Ranft, Ernst L., to General Motors Corporation. Air inlet control mechanism. 3,482,562, 12-9-69, Cl. 123-198.
Ranger, Jean. Interior appointments of storage furniture and cells therefor. 3,436,137, 4-1-69, Cl. 312-214.
Ranger Tool Co., Inc.: *See*—
Davis, Benjamin I.; and Klyce, Thomas A., 3,482,417.
Rangger, Herbert: *See*—
Bayer, Wolfgang; and Rangger, Herbert,3,482,753.
Rangger, Herbert, to Hilti Aktiengesellschaft. Device for securing elements into hard surfaces. 3,473,717, 10-21-69, Cl. 227-8.
Rangger, Herbert; Seghezzi, Hans-Dieter; and Batliner, Elmar, to Hilti Aktiengesellschaft. Device for driving securing elements into foundations or walls. 3,472,440, 10-14-69, Cl. 227-10.
Ranghelli, Joseph Charles: *See*—
Blass, Judd; and Ranghelli, Joseph Charles,3,478,284.
Rank, Charles R.: *See*—
Deford, Donald E.; and Rank, Charles R.,3,473,405.
Rank, Norman E.: *See*—
Mott, Walter E.; and Rank, Norman E.,3,463,499.
Rank Organisation Limited, The: *See*—
Barr, John Denzil, 3,479,944.
Bilbrough, Jack, 3,470,343.
Rank Organiyation Limited, The: *See*—
Purvey, Ronald James, 3,442,577.
Ranke, Edward K.: *See*—
Spitsbergen, Merlin D.; and Ranke, Edward K.,3,469,395.
Rankin, Bayard. Optical vernier interpolator. 3,449,052, 6-10-69, Cl. 356-170.
Rankin, David, to Gulf Oil Corporation. Self-cross-linking acrylic resin coating process and product. 3,480,463, 11-25-69, Cl. 117-62.
Rankin, Frederick W.: *See*—
Marshall, Theodore W.; Rankin, Frederick W.; and Willett, Norman E.,3,445,317.
Rankin, Harry W.: *See*—
Novak, David M.; and Rankin, Harry W.,3,457,577.
Rankin, James L. Central vacuum system for removing cut hair. 3,443,274, 5-13-69, Cl. 15-314.

Rankin, John A., deceased (by Rankin, Vera G., executrix); and Freier, Gerald H., to V-M Corporation. Phonograph pitch sensitive trip mechanism. 3,452,993, 7-1-69, Cl. 274-15.
Rankin, John A., to V-M Corporation. Multiphase vibrating switching device. 3,439,300, 4-15-69, Cl. 335-88.
Rankin, Kenneth Forbes: *See*—
Sherlock, James F.; and Rankin, Kenneth Forbes,3,440,624.
Rankin, Marvin L., Jr. Loading guide for boat trailers. 3,455,472, 7-15-69, Cl. 214-84.
Rankin, William J. Snow removal device. 3,473,838, 10-21-69, Cl. 294-53.5
Rannalli, Fred J., to Cox, L. M., Manufacturing Co., Inc. Controller. 3,457,538, 7-22-69, Cl. 338-176.
Rannenberg, George C., to United Aircraft Corporation. Unitary simple/bootstrap air cycle system. 3,428,242, 2-18-69, Cl. 230-116.
Rannenberg, George C., to United Aircraft Corporation. Combined heat load cooler and sea water desalination still. 3,440,147, 4-22-69, Cl. 203-11.
Rannenberg, George C., to United Aircraft Corporation. Hydraulic transmission system. 3,451,219, 6-24-69, Cl. 60-52.
Ranney, Neil J., to Production Machinery Corporation. Apparatus for uncoiling and processing metal strip. 3,461,703, 8-19-69, Cl. 72-183.
Rano, Sture Georg, to AB Tetra Pak. Method of splicing two sections of plastic coated web material. 3,449,186, 6-10-69, Cl. 156-159.
Ransburg Electro-Coating Corp.: *See*—
Probst, Richard O.; Thatcher, Charles R.; and Zupan, Norbert M., 3,439,649.
Ransburg Electro-Coating Corporation: *See*—
Drum, Edward W., 3,446,183.
Drum, Edward W., 3,473,735.
Drum, Edward W., 3,475,198.
Probst, Richard O., 3,425,625.
Probst, Richard O.; Thatcher, Charles R.; and Zupan, Norbert M., 3,439,649.
Probst, Richard O., 3,459,374.
Spiller, Lester L., 3,450,655.
Spiller, Lester L., 3,484,344.
Thatcher, Charles R., 3,476,319.
Zupan, Norbert M.; and Curtis, Norman S., 3,472,204.
Ranseen, Agnes J.: *See*—
Banning, Thomas A., Jr.; and Ranseen, Emil L.,3,472,949.
Ranseen, Emil L.: *See*—
Banning, Thomas A., Jr.; and Ranseen, Emil L.,3,472,949.
Ransick, Thomas F.: *See*—
Thomas, Edward V.; and Ransick, Thomas F.,3,448,713.
Ransil, Raymond J.; Lipanovich, Marko I.; and Alford, Charles H., to Lockheed Aircraft Corporation. Mounting board for electronic circuit elements. 3,457,541, 7-22-69, Cl. 339-17.
Ransley, Derek L., to Chevron Research Company. Polymeric sulfur compounds from allene. 3,432,542, 3-11-69, Cl. 260-481.
Ransley, Derek L., to Chevron Research Company. 1-Haloalkyl substituted aromatic hydrocarbons and process for their production. 3,453,339, 7-1-69, Cl. 260-651.
Ransom, Paul R.; and Dorsey, Ted C. Electrical test probe having an offset tip and line of sight therefor. 3,469,185, 9-23-69, Cl. 324-72.5
Ransome, John Gooch, to Pressed Steel Fisher Limited. Process for the electro-deposition of paint coating onto article having predeposited porous zinc layer. 3,470,072, 9-30-69, Cl. 204-181.
Ransome Torch & Burner Co.: *See*—
Gorman, Christopher B., 3,437,414.
Ranson, Wesley J.: *See*—
Davis, Bernard J.; and Ranson, Wesley J.,3,427,275.
Ransy, Ulric Oscar Marie. Surgical teat knife. 3,455,305, 7-15-69, Cl. 128-305.
Rantell, Alan: *See*—
Wilkes, John George; and Rantell, Alan,3,442,775.
Rantsch, Kurt, to Zeiss-Stiftung, Carl, d/b/a Zeiss, Carl. Light-weight optical mirror for astronomical equipment. 3,453,041, 7-1-69, Cl. 350-310.
Rantsch, Kurt; and Trotscher, Otto, to Zeiss-Stiftung, Carl, doing business as Zeiss, Carl. Positioning device for the absolute digital determination of measuring values. 3,441,350, 4-29-69, Cl. 356-170.
Ranz, Erwin: *See*—
Huckstadt, Harold; Saleck, Wilhelm; Randolph, August; and Ranz, Erwin,3,471,296.
Rao, Bhaskara M. L.; and Holmes, Robert W., to Mallory, P. R., & Co., Inc. High energy density thermal cell. 3,463,670, 8-26-69, Cl. 136-83.
Rao Bhaskara, Mlarur Lakshmanaroa, to Mallory, P. R., & Co., Inc. High energy density solid electrolyte cells. 3,455,742, 7-15-69, Cl. 136-83.
Rao, Koppaka V.; Marsh, William S.; and Renn, Donald W., to Pfizer, Chas., & Co., Inc. Sangivamycin and derivatives thereof. 3,423,398, 1-21-69, Cl. 260-211.5
Rapaport, Gerald M., to American Toy and Furniture Co., Inc. Combination puzzle and educational game. 3,453,750, 7-8-69, Cl. 35-35.
Rapaport, Leonard: *See*—
Carlbom, Marshall B., 3,447,635.
Rapaport, Stanley L. Microbe growth retardation in shingle roofs. 3,479,130, 11-18-69, Cl. 21-61.
Rapata, George Martin, to Illinois Tool Works Inc. Drive fastener. 3,485,133, 12-23-69, Cl. 85-5.
Rapata, George M., to Illinois Tool Works Inc. Liquid level indicator. 3,424,004, 1-28-69, Cl. 73-327.
Rapata, George M., to Illinois Tool Works Inc. Fastener unit. 3,430,673, 3-4-69, Cl. 151-37.
Raper, William George Clive: *See*—
Crocker, Henry Peter; and Raper, William George Clive,3,452,036.
Raphael, Thomas: *See*—
Hodgson, George T., Jr.; and Raphael, Thomas,3,471,428.
Raphael, Thomas; and Johnson, William C., to General Electric Company, mesne. Glass fibers sized with polyphenylene oxide derivatives. 3,476,589, 11-4-69, Cl. 117-126.
Rapid Industrial Process Corporation Ltd.: *See*—
Walz, Peter Otto, 3,441,243.
Rapid-Cleave Corporation: *See*—
Amori, Joseph A., 3,435,690.
Rapidograph, Inc.: *See*—
Danjczek, William E., 3,440,727.
Danjczek, William E., 3,475,103.
Riepe, Helmut, 3,441,354.
Riepe, Helmuth, 3,427,116.
Riepe, Helmuth, 3,463,323.
Riepe, Helmuth, 3,466,132.
Rapier, Andrew J. Leg rests for automobiles. 3,425,711, 2-4-69, Cl. 280-150.
Rapistan Incorporated: *See*—
De Good, Maynard J.; and Bowman, Clyde L., 3,420,355.
De Good, Maynard J., 3,420,356.
De Good, Maynard J.; and Bowman, Clyde L., 3,429,417.
McKnight, Robert J., 3,447,670.
Wickam, Irwin Edward, 3,481,451.
Raposa, Frank L., to United Aircraft Corporation. Transformer regulated self-stabilizing chopper. 3,475,675, 10-28-69, Cl. 323-18.
Rapp, Adolph Karl, to Radio Corporation of America. Driver-sense circuit arrangement. 3,440,444, 4-22-69, Cl. 307-238.
Rapp, Bernard R.: *See*—
Hibbard, William D.; Clark, James E.; and Rapp, Bernard R.,3,465,916.
Rapp, Charles F.: *See*—
Lee, Haynes A., Jr.; and Rapp, Charles F.,3,457,182.
Lee, Haynes A., Jr.; and Rapp, Charles F.,3,457,183.
Lee, Haynes A., Jr.; and Rapp, Charles F.,3,471,409.
Rapp, Janet Lorraine Cooper: *See*—
Anderson, Philip Carlton; and Rapp, Janet Lorraine Cooper,3,476,565.
Anderson, Philip Carlton; and Rapp, Janet Lorraine Cooper,3,484,243.
Rapp, Jay W.: *See*—
Shelby, Richard K.; and Rapp, Jay W.,3,428,238.
Rapp, Leon R. Knockdown box or crate. 3,485,433, 12-23-69, Cl. 229-23.
Rappaport, George: *See*—
Alig, Robert L.; and Rappaport, George,3,446,693.
Rappaport, Max: *See*—
Delafrange, Kenneth M.; and Rappaport, Max,3,441,799.
Rappaport, Max, to New York Pressing Machinery Corporation. Pressing apparatus. 3,464,130, 9-2-69, Cl. 38-15.
Rappas, James A. Keyway strip for concrete pavement forms. 3,442,188, 5-6-69, Cl. 94-39.
Rappenglueck, Joseph R.: *See*—
Baglino, John P.; Gubitose, Nicholas F.; Rappenglueck, Joseph R.; and Loveland, Chester L.,3,464,196.
Rappold & Co. G.m.b.H.: *See*—
Uerlichs, Johannes, 3,434,499.
Rappold, Hermann, & Co., G.m.b.H.: *See*—
Uerlichs, Johannes; and Muller, Rudolf, 3,447,793.
Rapport, Arthur: *See*—
Simmons, James R.; and Rapport, Arthur,3,421,897.
Rapsis, Michael J. Immersion heaters. 3,476,915, 11-4-69, Cl. 219-523.
Rapson, William Howard, to Hooker Chemical Corporation. Pulping and bleaching process wherein effluent liquor from alkaline extraction of bleached pulp is used to dissolve smelt. 3,453,174, 7-1-69, Cl. 162-30.
Rapson, William H.: *See*—
Wayman, Morris; and Rapson, William H.,3,467,575.
Raptis, George Meletios: *See*—
Doggett, James J.; and Raptis, George Meletios,3,420,489.
Rasch, Arthur A.; Jones, Jean E.; and Hodges, Wilbur C., to Eastman Kodak Company. Speed stabilized vacuum deposited silver halide. 3,442,649, 5-6-69, Cl. 96-67.

Rascher, Konrad: *See*—
Kallert, Alfred; and Rascher, Konrad,3,423,271.
Raschke, Herbert A., to Bullard, E. D., Company. Pivotally mounted sling stirrup bail. 3,433,522, 3-18-69, Cl. 294-82.
Raschke, Herbert A., to Bullard, E. D., Company. Rotation responsive switch. 3,450,850, 6-17-69, Cl. 200-61.39
Raschke, Herbert A., to Bullard, E. D. Hat mounted radio antenna. 3,470,558, 9-30-69, Cl. 343-718.
Raschke, Herbert A., to Bullard, E. D., Company. Face shield mounting apparatus. 3,475,766, 11-4-69, Cl. 2-9.
Raschke, Herbert A., to Bullard, E. D., Company. Quick release mount for wheel mounted appliance. 3,478,992, 11-18-69, Cl. 248-205.
Raschke, Herbert A., to Byllard, E. D., Company. Antifouling safety gate for a hoisting hook. 3,480,319, 11-25-69, Cl. 294-82.
Raschke, Herbert, to Bullard, E. D., Company. Welder's face shield mounting bracket for safety hats. 3,430,262, 3-4-69, Cl. 2-8.
Raschke, Herbet A., to Bullard, E. D., Company. Clamp-on protective hood. 3,427,660, 2-18-69, Cl. 2-10.
Raschle, Josef, to Heberlein Patent Corporation. Apparatus for heat-treating textiles. 3,461,519, 8-19-69, Cl. 28-62.
Raschle, Josef, to Heberlein Patent Corporation. Twist tube for false-twist device. 3,475,895, 11-4-69, Cl. 57-77.3
Rascov, Anthony. Toilet utilizing oil as a flushing agent. 3,431,563, 3-11-69, Cl. 4-1.
Rashidian, Rashid M., to North American Rockwell Corporation. Variable-geometry vehicle. 3,463,419, 8-26-69, Cl. 244-46.
Rasicci, Vincent M., to Standard Brands Chemical Industries, Inc. Emulsion polymerization of unsaturated monomers. 3,432,455, 3-11-69, Cl. 260-29.7
Rasiel, Amram; and Henebry, William M., to EG & G, Inc., mesne. Time-to-amplitude converter system. 3,421,113, 1-7-69, Cl. 332-1.
Rasiel, Amram; and Henebry, William M., to EG & G, Inc., mesne. Electronic clamp. 3,441,749, 4-29-69, Cl. 307-237.
Rasiel, Amram; and Henebry, William M., to EG & G, Inc. One-shot pulse generator circuit for generating a variable pulse width. 3,484,624, 12-16-69, Cl. 307-265.
Rask, Stanley: *See*—
Ross, Edgar A.; and Rask, Stanley,3,479,565.
Rask, Stanley; Ross, Edgar A.; and Tatum, Odes D., Jr., to Southern Weaving Company. Woven high-frequency transmission line. 3,447,120, 5-27-69, Cl. 339-143.
Rasmussen, Chris Royce, to McNeil Laboratories, Inc. Benzothiazin-4-one-1,1-dioxide derivatives. 3,476,749, 11-4-69, Cl. 260-243.
Rasmussen, Chris Royce; Carson, Elizabeth Landis; and Mohrbacher, Richard Joseph, to McNeil Laboratories, Inc. 2-(Phenyl-2-pyridyl-hydroxymethyl)-6-phenyl-6-(2- pyridyl)-fulvene, derivatives thereof and dimers thereof. 3,433,797, 3-18-69, Cl. 260-296.
Rasmussen, Chris Royce: *See*—
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; Rasmussen, Chris Royce; and Plampin, James Nelson,3,436,396.
Meschino, Joseph Albert; Mohrbacher, Richard Joseph; and Rasmussen, Chris Royce,3,453,271.
Mohrbacher, Richard J.; and Rasmussen, Chris Royce,3,426,032.
Mohrbacher, Richard Joseph; Meschino, Joseph Albert; and Rasmussen, Chris Royce,3,424,757.
Rasmussen, David E.: *See*—
Glover, Wayne H.; Southworth, Robert K.; Rasmussen, David E.; Unterberg, William J.; and Louden, Max,3,439,188.
Rasmussen, Donald W., to Edoco Technical Products, Inc. Apparatus for operation upon plastic concrete of canal bottom and side slope. 3,478,655, 11-18-69, Cl. 94-39.
Rasmussen, Erik B.: *See*—
Petersen, Gert Kokholm; and Rasmussen, Erik B.,3,467,582.
Rasmussen, George; and Spellmire, Robert J., to Pike Corporation of America, mesne. Rescue signaling system. 3,432,857, 3-11-69, Cl. 343-18.
Rasmussen, Holger. Soap dispenser. 3,459,343, 8-5-69, Cl. 222-477.
Rasmussen, James E.: *See*—
Gould, John V.; and Rasmussen, James E.,3,437,360.
Rasmussen, Kenneth L. Telephone booth installation tool. 3,464,670, 9-2-69, Cl. 254-92.
Rasmussen, Ole-Bendt. Method and apparatus for production of split fibers. 3,427,654, 2-11-69, Cl. 225-3.
Rasmussen, Ole-Bendt, to Metal Container Limited, mesne. Apertured cross-laminates of uniaxially oriented poly-alpha-olefin and their manufacture. 3,454,455, 7-8-69, Cl. 161-112.
Rasmussen, Ole-Bendt, to Phillips Petroleum Company. Fiber product having a branched reticular or net- like structure and a method and apparatus for the production thereof. 3,468,461, 9-23-69, Cl. 225-3.
Rasmussen, Ole-Bendt. Method of uniting plies of an oriented sheet material. 3,471,353, 10-7-69, Cl. 156-308.
Rasmussen, Robert F., to Honeywell Inc. Control apparatus. 3,429,226, 2-25-69, Cl. 91-6.
Rasmussen, Robert F., to Technicraft Corporation, The. Hydroponic apparatus. 3,451,162, 6-24-69, Cl. 47-1.2
Rasmussen, Robert F.: *See*—
Wright, Ansel J.; and Rasmussen, Robert F.,3,485,166.
Rasmussen, Robert T. C.: *See*—
Rathmann, Heinrich W.; and Rasmussen, Robert T. C.,3,420,659.
Rasmussen, Ronald E.: *See*—
Richey, Clarence B.; and Rasmussen, Ronald E.,3,472,528.
Rasmussen, Theo. Circular saw sharpening apparatus. 3,447,401, 6-3-69, Cl. 76-43.
Rasmussen, Villium Benedikt Kann. Windows. 3,465,478, 9-9-69, Cl. 49-169.
Rasmussen, William L., to Honeywell Inc. Accelerometer apparatus. 3,470,747, 10-7-69, Cl. 73-517.
Rasmusson, Donald R.: *See*—
Boudreau, Frank; Huston, Paul O.; and Rasmusson, Donald R.,3,428,188.
Rasmusson, Gary H.: *See*—
Christensen, Burton G.; Leanza, William J.; and Rasmusson, Gary H.,3,442,938.
Raso, Vito; and Eisenhart, Arlin C., to Emerson Electric Co. Modular drive and gear reduction unit. 3,434,366, 3-25-69, Cl. 74-421.
Rasor, Ned S.: *See*—
Stahl, Kurt; Langpape, Reinhart; and Rasor, Ned S.,3,440,455.
Raspe, Gerhard: *See*—
Kieslich, Klaus; Kerb, Ulrich; and Raspe, Gerhard,3,426,128.
Raspet, David, to United States of America, Air Force. Cascaded thermionic-thermoelectric devices utilizing heat pipes. 3,437,847, 4-8-69, Cl. 310-4.
Rassas, Waldo E.: *See*—
Shipley, Darrell R.; and Rassas, Waldo E.,3,478,753.
Rassman, William R. Heart massager. 3,478,737, 11-18-69, Cl. 128-64.
Rassmann, Christoph: *See*—
Georg, Werner; and Rassmann, Christoph,3,438,679.
Rassmann, Christoph, to Gewerkschaft Eisenhutte Westfalia. Guide for a swordless coal plough. 3,456,983, 7-22-69, Cl. 299-34.
Rastelli, Telesfore, to Textron, Inc. Cluster arrangement. 3,461,704, 8-19-69, Cl. 72-242.
Rastogi, Vijay: *See*—
Ives, Kenneth D.; and Rastogi, Vijay,3,433,060.
Rastorguev, Vladislav Vladimirovich: *See*—
Oskolsky, Asaf Alexandrovich; Ivashkov, Nikolai Melitonovich; Rastorguev, Vladislav Vladimirovich; Shmuilov, Nikolai Leonidovich; and Zhavoronkov, Lev Vasilievich,3,426,717.
Rastrelli, Joel E., to Dresser Industries, Inc. Production of magnesium hydroxide from aqueous solutions containing magnesium and boron values. 3,425,804, 2-4-69, Cl. 23-201.
Ratajczyk, James Daniel: *See*—
Swett, Leo Ralph; Ratajczyk, James Daniel; and Darby, Thomas Dillard,3,424,844.
Swett, Leo Ralph; Ratajczyk, James Daniel; and Kimura, Eugene Tatsuru,3,476,748.
Ratcliff Industries, Inc.: *See*—
Ratcliff, Rudy J., 3,427,667.
Ratcliff, Rudy J., to Ratcliff Industries, Inc. Convertible table. 3,427,667, 2-18-69, Cl. 5-3.
Rateau, Alexis. Hydraulic lift truck. 3,462,167, 8-19-69, Cl. 280-43.12
Ratelband, Johannes B. Valve with diaphragm valving element. 3,467,131, 9-16-69, Cl. 137-269.
Rath, Eric. Non-broaching beach cargo ship. 3,483,838, 12-16-69, Cl. 114-60.
Rath, Harry B.; and Kasaczun, Leo F., to Mack Trucks, Inc. Single speed floating control system operating bleed valve to limit turbodischarge pressure to a fixed differential below exhaust pressure. 3,456,437, 7-22-69, Cl. 60-13.
Rath, Heinrich Bernhard, to Girling Limited. Yoke mounting and guide means for spot-type disc brake. 3,480,116, 11-25-69, Cl. 188-73.
Rath, Heinrich Bernhard: *See*—
Schuchmann, Gerhard Ernst Ludwig Otto; Rath, Heinrich Bernhard; and Hoenick, Hermann Hans,3,421,603.
Rath, Ronald H., to Union Carbide Corporation. Coating composition and method of applying. 3,436,511, 4-1-69, Cl. 219-76.
Rathbun, Gail B. Remote control system. 3,486,074, 12-23-69, Cl. 317-54.
Rathbun, Harvey L., Jr., to United States of America, Navy. Echo repeater and/or target simulator. 3,421,137, 1-7-69, Cl. 340-2.
Rathbun, Willard J., to Foster Grant Co., Inc. Container. 3,437,233, 4-8-69, Cl. 220-97.
Rathburn, Lloyd C., to Combustion Engineering, Inc., mesne. Electric emulsion treater for crude oil. 3,437,581, 4-8-69, Cl. 204-308.
Rathcon, Inc.: *See*—
Conner, David C., 3,478,466.
Rathfon, Norman L., III: *See*—
Ruud, Glenn E.; and Rathfon, Norman L., III,3,481,524.
Rathje, Allan J.: *See*—
Davidow, Martin A.; and Rathje, Allan J.,3,439,684.
Rathke, Wolfgang; Szabo, Lyubomir; and Muhlen, Gert V. D., to Bau-Stahlgewebe G.m.b.H. Unit construction system with interlocking U- shaped elements. 3,464,179, 9-2-69, Cl. 52-584.

Rathmann, Heinrich W., to Foote Mineral Company. Method for recovering vanadium from iron-base alloys. 3,460,937, 8-12-69, Cl. 75a84.
Rathmann, Heinrich W.; and Rasmussen, Robert T. C., to Foote Mineral Company. Method for the production of vanadium alloys. 3,420,659, 1-7-69, Cl. 75-84.
Rathmann, Jim: *See—*
McGahee, Welbourne D., 3,466,672.
Raths, Fred W.: *See—*
Buckman, John D.; Pera, John D.; and Raths, Fred W.,3,484,473.
Buckman, Stanley J.; Pera, John D.; and Raths, Fred W.,3,463,785.
Ratkowski, Thomas A., to Abex Corporation. Dipper teeth with stabilizing inclined faces. 3,455,040, 7-15-69, Cl. 37-142.
Ratkowski, Thomas A., to Abex Corporation. Scrapers. 3,457,998, 7-29-69, Cl. 172-26.5
Ratliff, Floyd A.: *See—*
Giessler, Donald A.; and Ratliff, Floyd A.,3,421,648.
Ratliff, Harvey L., Jr., to Jetru, Inc. Wide-angle stereoviewer. 3,424,511, 1-28-69, Cl. 360-135.
Ratliff, Harvey L., Jr., to Jetru Inc. Process for making a color screen. 3,429,704, 2-25-69, Cl. 96-36.1
Ratliff, Harvey L., Jr., to Jetru Inc. Wide-angle stereoscopic picture element and viewer. 3,439,972, 4-22-69, Cl. 350-131.
Ratliff, Harvey L., Jr., to May, Maymie F., trusts, mesne. Wide-angle stereoscopic viewer. 3,463,570, 8-26-69, Cl. 350-134.
Ratliff, Harvey L., Jr., to Jetru Inc. Stereoscopic and/or a peripheral vision theatrical system. 3,471,224, 10-7-69, Cl. 352-60.
Ratliff, Hubert S. Beverage can handling and holding attachment. 3,425,735, 2-4-69, Cl. 294-33.
Ratmirov, Valery Arkadievich: *See—*
Vasiliev, Vladimir Sergeevich; Zusman, Vladimir Grigorievich; Ratmirov, Valery Arkadievich; and Agursky, Melib Samuilovich,3,475,578.
Ratner, Hyman: *See—*
Henderson, Bennett M.; Ratner, Hyman; and Wittner, Eugene,3,480,550.
Ratner, Victor A., to Defense Electronics, Inc. Automatic ticketing system. 3,445,633, 5-20-69, Cl. 235-61.7
Ratnoff, Raymond. Electrical clinical thermometer. 3,478,570, 11-18-69, Cl. 73-1.
Ratouis, Roger: *See—*
Boissier, Jacques Robert; and Ratouis, Roger,3,422,106.
Ratti, Gino A., Jr., to Chemetron Corporation, mesne. Process of preparing fine particle pigments. 3,431,130, 3-4-69, Cl. 106-309.
Ratts, Kenneth Wayne, to Monsanto Company. Fungicidal (N-substituted carbamoylmethyl) sulfonium chlorides. 3,478,154, 11-11-69, Cl. 424-320.
Ratts, Kenneth Wayne; and Yao, Angelina Ngo, to Monsanto Company. Substituted aromatic vinyl oxy thioethers. 3,463,822, 8-26-69, Cl. 260-609.
Ratts, Kenneth Wayne: *See—*
Harvey, George R.; and Ratts, Kenneth Wayne,3,452,080.
Speziale, Angelo John; and Ratts, Kenneth Wayne,3,479,373.
Rattunde, Manfred, to Reimers-Getriebe A.G. Infinitely variable cone pulley transmission. 3,451,283, 6-24-69, Cl. 74-230.17
Ratz, Alfred G. Random noise generator having gaussian amplitude probability distribution. 3,456,208, 7-15-69, Cl. 331-78.
Ratz, Bodo-Werner: *See—*
Irresberger, Hermann; Rieschel, Hans; and Ratz, Bodo-Werner,3,436,922.
Jacobi, Oskar; Irresberger, Hermann; Ratz, Bodo-Werner; and Rieschel, Hans,3,437,010.
Ratz, Heinz; and Schubel, Hans, to Dynamit Nobel Aktiengesellschaft. Films, foils, and fibers on a basis of polyhydroxymethylenes. 3,455,884, 7-15-69, Cl. 260-77.5
Ratz, Michael. Machine tool operating mechanism. 3,447,454, 6-3-69, Cl. 100-266.
Ratz, Rudi F. W.; and Bliss, Arthur D., to Olin Mathieson Chemical Corporation. Oxyalkylated 2,2-bis(chloromethyl)-1,3-propanediol-bis-phosphate. 3,423,486, 1-21-69, Cl. 260-928.
Ratz, Rudi F. W.; and Bliss, Arthur D., to Olin Mathieson Chemical Corporation. Spiro thiophosphates. 3,445,468, 5-20-69, Cl. 260-256.5
Ratz, Rudi F. W.; and Gruber, Miriam J., to Ansul Company, The, mesne. Trichlorocyclopentyl and trichloro- cyclohexyl phosphates and phosphonates and process therefor. 3,420,920, 1-7-69, Cl. 260-941.
Ratzer, John Henry William, 1/2 to Reads Limited. Containers and method of making same. 3,452,694, 7-1-69, Cl. 113-120.
Ratzsch, Manfred; Grundmann, Horst; and Kilian, Rolf, to VEB Leuna-Werke !Walter Ulbricht!. Process for producing waxlike low molecular ethylene polymers and copolymers. 3,441,628, 4-29-69, Cl. 260-683.
Ratzsch, Manfred; Grundmann, Horst; Kilian, Rolf; and Reinhardt, Helmut, to VEB Leuna-Werke 'Walter Ulbricht'. Process for the purification of low- molecular polyethylene mash. 3,431,250, 3-4-69, Cl. 260-94.9
Rau, Ben W. Collapsible film reel. 3,447,759, 6-3-69, Cl. 242-71.9
Rau, Ben W. Lighting apparatus. 3,457,662, 7-29-69, Cl. 40-86.
Rau, Ben W. Belt buckle assembly. 3,475,797, 11-4-69, Cl. 24-230.
Rau, Ben W.: *See—*
Zidron, Martin V.; Rau, Ben W.; and Nagel, Robert I.,3,452,188.
Rau Fastener: *See—*
Handwerger, Louis, 3,472,442.
Rau Findings Company: *See—*
Jacobson, Martin, 3,454,993.
Rau, Mathias. Apparatus for assembling a sleeve bearing. 3,465,407, 9-9-69, Cl. 29-200.
Rau, Willy, to Maschinenfabrik Rau oHG. Remotely controlled coupling means. 3,420,550, 1-7-69, Cl. 280-461.
Rau, Wolfgang: *See—*
Urbanczik, Georg; and Rau, Wolfgang,3,442,449.
Raub, Edward L., Jr.: *See—*
Raub, Edward L., Sr.; Raub, Edward L., Jr.; and Scholfield, Richard P.,3,474,557.
Raub, Edward L., Sr.; Raub, Edward L., Jr.; and Scholfield, Richard P. Display apparatus with multiplicity of display devices movable through a display space and a storage space and conveyor mechanism therefor. 3,474,557, 10-28-69, Cl. 40-32.
Raub, Lyly: *See—*
Ham, Coy S.; Raub, Lyly; Joyce, Jack E.; and Lozano, Robert,3,481,841.
Rauber, Benjamin Thomas, Jr. Locking means for locking the top of a convertible automobile. 3,425,742, 2-4-69, Cl. 296-121.
Rauch, Charles, to Singer-General Precision, Inc. Buffer amplifier system with three matched amplifier channels to provide symmetrically balanced input and output impedance. 3,437,893, 4-8-69, Cl. 318-18.
Rauch, Emil B.; and Welsh, John A., to GAF Corporation. Halovinyl compounds. 3,428,629, 2-18-69, Cl. 260-240.
Rauch, Stewart E., Jr., to Bethlehem Steel Corporation. Surface treatment of steel electrotinning stock. 3,468,768, 9-23-69, Cl. 204-37.
Rauch, Stewart E., Jr.; and Roberts, Carlton E., to Bethlehem Steel Corporation. Treatment for ferrous surfaces. 3,479,260, 11-18-69, Cl. 204-56.
Rauch, William, 1/2 to Murray, James F. Nursing bottle holder. 3,425,653, 2-4-69, Cl. 248-104.
Rauchle, Ernst Adolf: *See—*
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi,3,467,485.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi,3,468,620.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi,3,471,248.
Raudnitz, Jean P. M.; and Wahl, Henri. Lower aliphatic sultone derivatives of scopolamine and atropine. 3,445,471, 5-20-69, Cl. 260-292.
Raudonis, John A., Jr.: *See—*
Off, Joseph W. A.; Adams, Kenneth D.; and Raudonis, John A., Jr.,3,420,515.
Raue, Roderich; and Kuhlthau, Hans-Peter, to Farbenfabriken Bayer Aktiengesellschaft. Methine dyestuffs. 3,468,619, 9-23-69, Cl. 8-25.
Raue, Roderich: *See—*
Weissel, Oskar; Raue, Roderich; and Psaar, Hubertus,3,441,563.
Rauglas, Gerard, to Cardwell Westinghouse Company. Two way automatic brake adjuster. 3,448,836, 6-10-69, Cl. 188-202.
Raugust, Theodore A., to Jackson, Byron, Inc. Hydraulically locked adjustable tail pipe for well tools. 3,460,619, 8-12-69, Cl. 166-237.
Rauh, Albrecht; and Heermann, Richard, to Andreas Stihl Maschinenfabrik. Pump driving connection, especially for motor chain saws. 3,448,829, 6-10-69, Cl. 184-27.
Rauhut, Herbert, to Keuffel & Esser Company, mesne. Diazotype material. 3,459,551, 8-5-69, Cl. 96-91.
Rauhut, Herbert; and Sus, Oskar, to Keuffel & Esser Company, mesne. Reproduction material. 3,432,301, 3-11-69, Cl. 96-91.
Rauhut, Herbert; and Sus, Oskar, to Keuffel & Esser Company, mesne. Diazotype material. 3,462,271, 8-19-69, Cl. 96-91.
Rauhut, Herbert: *See—*
Werner, Georg; and Rauhut, Herbert,3,473,930.
Rauhut, Michael McKay: *See—*
Grayson, Martin; Keough, Patricia Tarpey; and Rauhut, Michael McKay,3,452,099.
Rauhut, Michael McKay; and Bollyky, Laszlo Joseph, to American Cyanamid Company. Generation of light by the reaction of oxalic-type amides with hydroperoxides in the presence of a fluorescent compound. 3,442,815, 5-6-69, Cl. 252-188.3
Rauhut, Michael McKay; and Kennerly, George Warren, to American Cyanamid Company. Novel chemiluminescent reaction between oxalyl chloride, a peroxide, and water or a suitable alcohol in the presence of a fluorescent compound. 3,425,949, 2-4-69, Cl. 252-188.3
Rauhut, Michael M.; Borowitz, Grace B.; and Grayson, Martin, to American Cyanamid Company. Vinyl (triorgano) phosphonium halides and the preparation thereof. 3,422,149, 1-14-69, Cl. 260-606.5

Rauhut, Paul; Glavitsch, Johann; and Cuny, Robert, to Aktiengesellschaft Brown, Boveri & Cie. Rotary transformer for coupling multiphase systems having a small frequency difference. 3,471,708, 10-7-69, Cl. 307-85.
Rauland Corporation, The: *See—*
Christensen, John A., 3,421,048.
Kaplan, Sam H., 3,420,150.
Kaplan, Sam H., 3,434,836.
Niklas, Wilfrid F., 3,443,104.
Raulston, James Leonard; and Rogers, Stephen L., Jr. High closet range hood. 3,477,420, 11-11-69, Cl. 126-299.
Rauner, Frederick J., to Eastman Kodak Company. Azide sensitized photosensitive prepolymer compositions. 3,475,176, 10-28-69, Cl. 96-115.
Rauner, Lawrence A., to Dow Corning Corporation. Method for reducing or preventing foam in liquid mediums. 3,455,839, 7-15-69, Cl. 252-321.
Rausch, Douglas A.: *See—*
Miller, Donald L.; Madison, Norman L.; and Rausch, Douglas A.,3,423,334.
Rausch, Friedrich-Wilhelm, to Wagner Guenther Pelikan-Werke. Pen. 3,424,538, 1-28-69, Cl. 401-259.
Rausch, Hans; Heitmann, Gunter; and Thumm, Wilhelm, to Metallgesellschaft Aktiengesellschaft. Iron ore reduction. 3,428,445, 2-18-69, Cl. 75-3.
Rausch, John J.: *See—*
Hill, Vernon L.; Rausch, John J.; Hess, Alan L.; Van Thyne, Ray J.; and Nichols, Harry R.,3,446,615.
Rausch, Konrad, to VDO Tachometer Werke Adolf Schindling G.m.b.H. Apparatus for measuring the liquid level in a container. 3,424,003, 1-28-69, Cl. 73-302.
Rausch, Maurice K., to Sinclair Research, Inc. Two-stage catalytic hydrogenation of a dewaxed raffinate. 3,431,198, 3-4-69, Cl. 208-143.
Rausch, Maurice K., to Sinclair Research, Inc. Automatic transmission fluid of reduced suscepti- bility oxidative degradation. 3,450,636, 6-17-69, Cl. 252-75.
Rausch, Maurice K., to Sinclair Research, Inc. Making a white oil by two stages of catalytic hydrogenation. 3,459,656, 8-5-69, Cl. 208-57.
Rausch, Maurice K.; and Isaacson, Henry V., to Sinclair Research, Inc. Secondary plasticizer for thermoplastic non-rubbery polymers. 3,427,177, 2-11-69, Cl. 106-191.
Rausch, Werner; and Hansen, Hans, to Hooker Chemical Corporation. Process for the chemical surface treatment of metal. 3,450,579, 6-17-69, Cl. 148-6.16
Rausch, Werner; Hansen, Hans; and Mueller, Gerhard, to Hooker Chemical Corporation. Method of forming a copper containing protective coating prior to electrodeposition of paint. 3,467,589, 9-16-69, Cl. 204-181.
Rausch, Werner; and Koch, Gerhard, to Hooker Chemical Corporation. Method of treating metal surfaces. 3,425,947, 2-4-69, Cl. 252-105.
Rausch, William V.; and Calderon, Arthur, Jr., to Fabri-Tek Incorporated. Symmetrical sputtering apparatus with plasma confinement. 3,458,426, 7-29-69, Cl. 204-298.
Rauschenbach, Roger R.: *See—*
Gamber, Erwin J.; and Rauschenbach, Roger R.,3,436,236.
Rauscher, Richard C., to Xerox Corporation. Indexing control system. 3,427,107, 2-11-69, Cl. 355-42.
Rauscher, Willy: *See—*
Krumbein, Fritz; and Rauscher, Willy,3,456,892.
Rausing, Anders Ruben, to Tetra Pak Rausing & Co., KG. Container wall section. 3,436,007, 4-1-69, Cl. 229-14.
Rausing, Anders Ruben, to AB Tetra Pak. Method of packaging sterile filling material under aseptic conditions. 3,466,841, 9-16-69, Cl. 53-28.
Rausing, Anders Ruben; and Ignell, Rolf Lennart, to Sobrefina SA. Method of forming a container. 3,468,224, 9-23-69, Cl. 93-36.01
Rausing, Gad Anders: *See—*
Rausing, Hans Anders; and Rausing, Gad Anders,3,469,760.
Rausing, Gad Anders; and Jarund, Harry Sigvard Valdemar, to AB Tetra Pak. Apparatus for manufacturing sterile packages starting from a flattened tube having a sterilized inner surface. 3,431,700, 3-11-69, Cl. 53-182.
Rausing, Gad Anders; and Tuma, Alex, to AB Tetra Pak. Method of packaging sterile liquids. 3,486,295, 12-30-69, Cl. 53-89.
Rausing, Hans Anders, to AB Tetra Pak. Method of making filled and sealed packages. 3,471,991, 10-14-69, Cl. 53-27.
Rausing, Hans Anders; and Rausing, Gad Anders, to Sebrefina SA. Liquid package for filling material under pressure. 3,469,760, 9-30-69, Cl. 229-14.
Rausser, Richard; and Oliveto, Eugene P., to Schering Corporation. 3a,20-Diacetoxy-16β-lower alkyl-17(20)-oxido- pregnane-11-one and intermediate in the preparation thereof. 3,461,117, 8-12-69, Cl. 260-239.55
Rautenbach, Jacobus Johannes. Pressure burner. 3,478,735, 11-18-69, Cl. 126-44.
Rauth, Robert G., to Flavor-Pict, Inc., mesne. Fresh corn trimming and husking machine. 3,451,397, 6-24-69, Cl. 130-5.
Raval, Gaston, to Omega Louis Brandt & Frere S.A. Electric timepiece. 3,421,312, 1-14-69, Cl. 58-85.5
Ravas, Richard J., to Westinghouse Electric Corporation. Overvoltage protection circuit for controlled solid state valves. 3,424,948, 1-28-69, Cl. 317-31.
Ravas, Richard J., to Westinghouse Electric Corporation. Movement responsive light control means. 3,459,961, 8-5-69, Cl. 307-116.
Ravault, Frank Ernest George, to Foseco International Limited. Composition for protective treatment of metals. 3,440,112, 4-22-69, Cl. 148-22.
Rave, Joseph A., Jr.: *See—*
Burnett, Lonnie A.; Rave, Joseph A., Jr.; Read, Richard E.; and Neal, Norman D.,3,486,012.
Rave, Terence William, to Procter & Gamble Company, The. Emulsifying and textile softening phosphonium compounds, processes for preparing the same. 3,475,490, 10-28-69, Cl. 260-551.
Raven Industries, Inc.: *See—*
Hutchins, Marlyn R., 3,473,354.
Odney, Keith D., 3,420,479.
Pohl, Russell A.; and Pritchard, Clyde L., 3,458,161.
Pritchard, Clyde L.; and Pohl, Russell A., 3,473,763.
Ravenhall, Dysart A.; and Schwender, George, to United States of America, Atomic Energy Commission. Tape reel identifying arrangement employing light reflective coded label. 3,458,706, 7-29-69, Cl. 250-219.
Ravenscroft, Greville Sandford: *See—*
Marshall, Frederick George; and Ravenscroft, Greville Sandford,3,448,589.
Raver, Clarence Leo, to Flex-Float Engineering Company. Fluid pressure tightened joint. 3,479,063, 11-18-69, Cl. 285-108.
Raver, Louis J.: *See—*
Cummins, Donald L.; and Raver, Louis J.,3,427,529.
Raver, Louis J.; and Shaw, Maurice V., to General Motors Corporation. Potential regulator circuit for permanent magnet type alternators. 3,443,197, 5-6-69, Cl. 321-18.
Ravich, Leonard E., to White Consolidated Industries, Inc. Method for the production of amorphous cadmium sulphide. 3,432,262, 3-11-69, Cl. 23-134.
Raviv, Samuel; Rabinovitz, Elsa; and Malkiely, Shimon, to State of Israel Ministry of Defence, The. Separation of the core of a uranium fuel element from its envelope. 3,446,713, 5-27-69, Cl. 204-1.5
Ravreby, Fred A. Wheel assembly and fabrication thereof. 3,452,798, 7-1-69, Cl. 152-323.
Ravreby, Fred A.; Palson, Richard C. J.; and Speer, Ralph W., to Shirlo, Inc. Shoe tree. 3,473,177, 10-21-69, Cl. 12-115.6
Ravve, Abraham: *See—*
Fitko, Chester W.; and Ravve, Abraham,3,432,464.
Fitko, Chester W.; and Ravve, Abraham,3,441,469.
Ravve, Abraham; and Fitko, Chester W., to Continental Can Company, Inc. Stabilized polyvinylchloride compositions. 3,440,303, 4-22-69, Cl. 260-847.
Suomi, William D.; and Ravve, Abraham,3,463,714.
Rawcliffe, Gordon H.; and Fong, William, to National Research Development Corporation. Pole-changing synchronous rotary electric machines. 3,450,971, 6-17-69, Cl. 318-173.
Rawley, David A.: *See—*
Rohrer, Raymond E., 3,470,474.
Rawley, David A., Jr., and Bilger, Donald E.: *See—*
McKenna, John R., 3,423,681.
Rawlings, Bernard Samuel, to Marston Excelsior Limited. Plate-type heat exchanger. 3,469,623, 9-30-69, Cl. 165-70.
Rawlings, Dennis G., to Plessey Company Limited, The. Rocket propulsion unit for operation by liquid monofuel. 3,453,828, 7-8-69, Cl. 60-259.
Rawlings, Herbert L.: *See—*
Gemassmer, Alois M.; and Rawlings, Herbert L.,3,453,184.
Rawlings, John H., 'Automatic' Sprinkler Corporation of America. Helmet combination suspension. 3,486,169, 12-30-69, Cl. 2-3.
Rawlings, Richard F.; and Austin, George E., said Austin assor. to said Rawlings. Shell stringer apparatus. 3,431,803, 3-11-69, Cl. 83-95.
Rawlings, Terence James: *See—*
McCall, Ernest Bryson; and Rawlings, Terence James,3,455,951.
Neale, Alan Jeffrey; and Rawlings, Terence James,3,454,590.
Rawlins, Stokes Smith, Jr., to Du Pont de Nemours, E. I., and Company. Sequential polymerization processes, compositions and elements. 3,443,950, 5-13-69, Cl. 96-87.
Rawls, Vaughn, to National-Standard Company, mesne. Automatic clamp band. 3,484,903, 12-23-69, Cl. 18-43.
Rawski, Ryszard: *See—*
Trylinski, Wladyslaw; Burzynski, Stanislaw; Pawlowski, Jerzy; and Rawski, Ryszard,3,485,446.
Rawson, James L., to Highway Equipment Company. Speed control monitor. 3,441,039, 4-29-69, Cl. 137-30.
Rawson, Peter John; and Shaw, Michael Kevin, to English Electric Company Limited, The. Centrifugal pumps. 3,477,383, 11-11-69, Cl. 103-99.
Raxhon, Ateliers, S.A.: *See—*
Serracant Selvas, Jose, 3,471,908.

Ray, Charles D. Stereotaxic surgical instrument and method. 3,457,922, 729-69, Cl. 128-303.
Ray, Charles L.: *See*—
Baarson, Robert E.; and Ray, Charles L.,3,426,896.
Baarson, Robert E.; Du Brow, Paul L.; and Ray, Charles L.,3,425,550.
Chandler, Scott S.; and Ray, Charles L.,3,468,667.
Sebba, Felix; Jonaitis, Charles W.; Ray, Charles L.; and Baarson, Robert E.,3,476,553.
Ray, Donald A.: *See*—
Williams, William J.; and Ray, Donald A.,3,434,359.
Ray, Ford P.; and Slingsby, Thomas W., to Peerless Photo Products, Inc. Photographic processing mechanism. 3,477,356, 11-11-69, Cl. 95-94.
Ray, Gardner C.; and Frey, David A., to Phillips Petroleum Company. Production of polymers from cyclic compounds. 3,458,486, 7-29-69, Cl. 260-79.1
Ray, Harold T.: *See*—
Combes, Marvin G.; and Ray, Harold T.,3,460,224.
Ray, Henry T.: *See*—
Couch, Virgil R., Jr., 3,472,316.
Ray, James A.: *See*—
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A.,3,432,316.
Kelly, Thomas M.; Peppler, Richard B.; and Ray, James A.,3,485,649.
Ray, Joseph C., to Cincinnati Milling Machine Co., The. Damped tuned boring bar. 3,447,402, 6-3-69, Cl. 77-58.
Ray, Kenneth, to High Voltage Engineering Corporation. Vacuum type union. 3,455,583, 7-15-69, Cl. 285-367.
Ray, Kyle. Electric power saw miter machine. 3,483,901, 12-16-69, Cl. 143-6.
Ray, Neil Hunter, to Imperial Chemical Industries Limited. Method of strengthening glass by a potassium- nitrate-potassium borofluoride melt. 3,445,208, 5-20-69, Cl. 65-30.
Ray, Neil Hunter; and Doran, Peter, to Imperial Chemical Industries Limited. Preparation of α-cyanoacrylic esters. 3,463,804, 8-26-69, Cl. 260-465.
Ray, Neil Hunter; and Webster, Samuel John, to Imperial Chemical Industries Limited. Method of chemically strengthening glass. 3,484,224, 12-16-69, Cl. 65-30.
Ray Oil Burner Co.: *See*—
Winters, Harry K., 3,453,061.
Ray Plastic Inc.: *See*—
Carbonneau, Rene R., 3,476,100.
Ray, Richard Louis; Segura, Marnell A.; and Bryan, John L., Jr., to Esso Research and Engineering Company. Process of making butyl rubber whereby a broad molecular weight distribution is obtained under controlled condations. 3,433,775, 3-18-69, Cl. 260-85.3
Ray, Richard W.; and Campbell, Stephen P., Jr., to Millipore Corporation. Ampoule breaker. 3,450,319, 6-17-69, Cl. 225-104.
Ray, Walter S.: *See*—
Herman, Walter H.; Ray, Walter S.; and Crowe, Robert C.,3,457,896.
Ray, William A., to International Telephone and Telegraph Corporation. Bistable valve mechanism or the like. 3,420,492, 1-7-69, Cl. 251-68.
Ray, William A., to International Telephone and Telegraph Corporation. Flow valve with mechanically integrated vent valve. 3,422,851, 1-21-69, Cl. 137-630.19
Ray, William A., to International Telephone and Telegraph Corporation. Solenoid valve. 3,432,140, 3-11-69, Cl. 251-129.
Ray, William A., to International Telephone and Telegraph Corporation. Pressure regulator and shut-off valve. 3,442,287, 5-6-69, Cl. 137-489.
Ray, William A., to International Telephone and Telegraph Corporation. High capacity pressure regulated gas diaphragm valve. 3,477,462, 11-11-69, Cl. 137-489.
Ray, William A., to International Telephone and Telegraph Corporation. Combination pressure regulator and shut off. 3,481,363, 12-2-69, Cl. 137-495.
Ray, William Alton, to International Telephone and Telegraph Corporation. Bilevel pressure regulating valve. 3,433,262, 3-18-69, Cl. 137-614.19
Ray, William B. Combination router carriage, work holder and template holder and adjuster. 3,434,385, 3-25-69, Cl. 90-13.1
Raybestos-Manhattan, Inc.: *See*—
Goble, William C., 3,485,977.
Holmes, Robert L.; and Tavelle, Charles L., 3,481,805.
Jensen, Warren R.; and Orzechowski, Jack F., 3,462,387.
Novak, Jane E.; and Orzechowski, John F., 3,453,818.
Slade, Winton Lloyd, 3,463,197.
Slade, Winton Lloyd, 3,473,087.
Smith, George D., 3,425,883.
Stormfeltz, Robert W., 3,429,766.
Raybin, Meyer W. Electronic transistorized ignition system. 3,475,648, 10-28-69, Cl. 315-206.
Raybois, Georges, to Societe Parisienne d'Expansion Chemique S.P.E.C.I.A. Packaging container for articles of circular cross-section. 3,444,991, 5-20-69, Cl. 206-46.
Rayburn, Alden G. Method of manufacture of flexible couplings. 3,455,013, 7-15-69, Cl. 29-454.
Rayburn, Carles C., to Illinois Tool Works, Inc. Capacitor-resistor construction. 3,427,572, 2-11-69, Cl. 333-70.
Rayburn, Vincent A., to Western Electric Company, Incorporated. Methods of fabricating an electrical coupler. 3,457,640, 7-29-69, Cl. 29-629.
Raychem Corporation: *See*—
Allan, Donald R., 3,447,219.
Cook, Paul M., 3,455,337.
Derbyshire, Rodney L.; and Griffith, Roland K., 3,448,182.
Ellis, Roger H., 3,455,336.
Foreman, Ralph S.; Switzer, Ronald E.; Spiller, Kenneth J.; and Allan, Donald R., 3,427,433.
Foreman, Ralph S., 3,484,577.
Goodrich, Roger S., 3,445,898.
Rayette-Faberge, Inc.: *See*—
Birkelo, Einar P.; and Johnson, Timothy N., 3,423,504.
Rayfield, Harry F., to Burroughs Corporation. Tape apparatus. 3,430,878, 3-4-69, Cl. 242-55.12
Rayfield, Harry F.; and Kjos, Magne Jarle, to Burroughs Corporation. Multiple station tape handling apparatus. 3,443,766, 5-13-69, Cl. 242-55.12
Rayfield, James Arthur F.; and Whitehurst, Joe R., to Warner & Swasey Company, The. Creel stop motion responsive to sliver weight variances. 3,445,894, 5-27-69, Cl. 19-0.25
Rayford, Brooks. Dop stick. 3,461,622, 8-19-69, Cl. 51-229.
Raymon, Raymond T. Adjustable closure lock. 3,420,001, 1-7-69, Cl. 49-407.
Raymond, Albert E.; Fraser, William J.; and Swedish, Frank, Jr., to Minnesota Mining and Manufacturing Company. Water-laid leather substitute containing leather fiber, staple fibers and polyurethane slurry and method for making same. 3,436,303, 4-1-69, Cl. 162-123.
Raymond Corporation, The: *See*—
Gibson, Christian D., 3,424,475.
Raymond, Eugene T.: *See*—
Hull, John W.; and Raymond, Eugene T.,3,455,566.
Raymond, Francois Henri, to Societe F.R.B. Insulating support for electrical connectors. 3,434,101, 3-18-69, Cl. 339-207.
Raymond, Frank J., Jr., to Ramcon Corporation. Electrically operated valve. 3,430,916, 3-4-69, Cl. 251-71.
Raymond, Gary L.: *See*—
Raymond, Gerald L.; and Raymond, Gary L.,3,473,291.
Raymond, Gerald L.; and Raymond, Gary L., to Kirk, G. R., Co. Sheathing apparatus. 3,473,291, 10-21-69, Cl. 53-124.
Raymond, Gordon H.: *See*—
Swanke, Roy L.; and Raymond, Gordon H.,3,421,742.
Raymond International, Inc.: *See*—
Gendron, George J.; Garnjost, Kenneth D.; and Mastropole, Alfred J., 3,452,830.
Raymond, Jack E. Ozone producing laundry freshening units. 3,438,136, 4-15-69, Cl. 34-72.
Raymond, John Charles, to Molins Machine Company Limited. Support stock for an annular article. 3,463,519, 8-26-69, Cl. 287-52.07
Raymond, John G., to Millers Falls Company. Depth gauge. 3,460,408, 8-12-69, Cl. 77-55.
Raymond, Joseph Edward, to Hoffmann-La Roche Inc. Composition. 3,458,623, 7-29-69, Cl. 424-38.
Raymond, Joseph Edward: *See*—
De Ritter, Elmer; and Raymond, Joseph Edward,3,433,872.
Raymond, Lester O. Holding and display device for bottle caps and the like. 3,443,686, 5-13-69, Cl. 206-78.
Raymond, Louis W.; and Reath, Roger E. Electroplating method and system. 3,470,082, 9-30-69, Cl. 204-228.
Raymond, Robert E., to International Basic Economy Corporation. Fluid motor. 3,429,231, 2-25-69, Cl. 91-175.
Raymond, Robert E., to International Basic Economy Corporation. Pressure control apparatus. 3,429,337, 2-25-69, Cl. 137-488.
Raymond, Robert E., to International Basic Economy Corporation. Fluid actuated stroke control system for plural pumps. 3,440,965, 4-29-69, Cl. 103-37.
Raymond, Robert E., to International Basic Economy Corporation. Piston shoe construction. 3,455,585, 7-15-69, Cl. 287-21.
Raymond, Robert F., to Universal Oil Products Company. Process for producing olefinic hydrocarbons. 3,472,909, 10-14-69, Cl. 260-683.
Raymond, Samuel O.: *See*—
Tyndale, Clyde L.; Efinger, Gerald H.; and Raymond, Samuel O.,3,444,510.
Raymond, Samuel; and Broome, John. Multi-phase electrophoretic distribution. 3,470,080, 9-30-69, Cl. 204-180.
Raymond, William J.: *See*—
Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K.,3,483,633.
Raynal, Jean,: *See*—
Gstalder, Serge,; Raynal, Jean,; and Renard, Bruno,,3,443,650.
Raynal, Jean; Gstalder, Serge; and Quichaud, Claude, to Societe Nationale des Petroles d'Aquitaine. Apparatus for producing and

utilising electrical energy for use in drilling operations. 3,448,305, 6-3e69, Cl. 310-17.
Raynaud, Noel: *See—*
Le Coz, Francois; Mombaxet, Rene; and Raynaud, Noel,3,431,618.
Rayner, Arline W.: *See—*
Davis, John K.; Fernald, Henry G.; and Rayner, Arline W.,3,434,781.
Rayner, Christopher Stephen: *See—*
Jenkinson, Jeremy Mark; and Rayner, Christopher Stephen,3,468,555.
Rayner, Christopher Stephen; and Thomas, David, to Lucas, Joseph, (Industries) Limited. Safety arrangements for power operated windows in road vehicles. 3,465,476, 9-9-69, Cl. 49-28.
Rayner, Peter John Wynn: *See—*
Edge, Gordon Malcolm; Eiloart, Timothy March Beaupre; Horabin, Ivan S.; and Rayner, Peter John Wynn,3,423,845.
Rayneri, Paul. Equipment, more particularly for manufacturing plastic materials. 3,424,192, 1-28-69, Cl. 137-340.
Raynes, Bertram C.; and Pescatrice, Michael, to Rand Development Corporation. Sweat solder form. 3,464,617, 9-2-69, Cl. 228-56.
Rayno, Glenn D.; Grahame, Frederick W.; and Paul, Carl E., deceased0 (by Paul, Anne F.), to General Electric Company. Electrical capacitor and method of making the same. 3,444,602, 5-20-69, Cl. 29-25.42
Raynolds, Stuart, to Du Pont de Nemours, E. I., and Company. Water repellent compositions. 3,480,579, 11-25-69, Cl. 260-28.5
Raynolds, Stuart; and Tandy, Thomas K., Jr., to Du Pont de Nemours, E. I., and Company. Stabilized oil- and water-repellent composition. 3,438,925, 4-15-69, Cl. 260-29.4
Raynolds, Stuart; and Tandy, Thomas K., Jr., to Du Pont de Nemours, E. I., and Company. Fluorinated oil-and water-repellent copolymer and process for treating fibrous materials with said copolymer. 3,462,296, 8-19-69, Cl. 117-161.
Raynor, Arthur D. Rack for clip on type neckties. 3,420,383, 1-7-69, Cl. 211-113.
Raynor, David F.: *See—*
Holoch, Klaus E.; Raynor, David F.; and Haaf, William R.,3,483,271.
Raynor, Robert J.: *See—*
Dietrich, Heinz J.; Karabinos, Joseph V.; and Raynor, Robert J.,3,427,326.
Raynor, Warren S.; and Burgess, Keith A., to Rex Chainbelt Inc. Material handling system. 3,448,867, 6-10-69, Cl. 214-6.
Raytheon Company: *See—*
Appleton, Norman Joseph, 3,445,838.
Bickford, William J.; and Rowland, Howard J., 3,471,788.
Bierig, Robert W., 3,444,484.
Black, William L., 3,456,198.
Brown, William C.; George, Roscoe H.; Heenan, Neil I.; and Wonson, Roger C., 3,434,678.
Caswell, Charles F., 3,482,086.
Christopher, Daryl J., 3,431,458.
Davis, Luther, Jr., 3,483,387.
Davis, Warren C., 3,456,145.
Downing, Arthur H.; and Janis, Peter, 3,465,198.
Downing, Edward T.; and Plumridge, Robert F., 3,435,284.
Downing, Edward T., 3,444,429.
Eichler, Ewald G., 3,485,318.
Fredenburg, Donald A., 3,471,828.
Glasspool, William T., 3,431,434.
Grossi, Mario D.; and Lombardini, Pietro P., 3,445,844.
Hamilton, Jerome John, 3,424,996.
Hergenrother, Rudolf C., 3,474,286.
Heynes, Michael S. R.; and Coppen, Peter J., 3,447,238.
Houghton, Warren W.; and Royce, Robert C., 3,483,761.
Legat, Wilhelm; and Russell, Lewis K., 3,471,922.
Legat, Wilhelm H.; Russell, Lewis K.; and Rosvold, Warren C., 3,423,651.
Legat, Wilhelm H.; and Dixon, Alan F., 3,486,087.
Leone, James E.; and Wettstein, Ernest C., 3,428,915.
Maple, Telford Grant, 3,445,727.
Maurer, Hans A., 3,453,563.
McLeod, Willard W., Jr., 3,484,784.
Melancon, Leo, 3,474,447.
Mohr, Max C., 3,425,003.
Phillips, Carroll D.; and Orchard, Clifton F., 3,459,102.
Rindner, Wilhelm; and Nelson, Roger F., 3,443,165.
Roeber, Fred W., 3,430,159.
Rosvold, Warren C., 3,432,919.
Rosvold, Warren C.; and Legat, Wilhelm H., 3,447,235.
Rosvold, Warren C., 3,454,835.
Rosvold, Warren C., 3,486,892.
Ruden, Thomas E., 3,479,577.
Sheldon, Edward J., 3,445,851.
Sheldon, Edward J.; Mangiapane, Rosario; and Segarra, Edwin, 3,484,785.
Shrader, William W., 3,441,931.
Spencer, Gordon R.; and Stauffer, Franklin K., 3,473,076.
Statz, Hermann; and Tang, Chung-Liang, 3,456,210.
Temple, Trevor, 3,445,675.
Tuinila, Raymond P.; and Bayrd, Richard O., 3,441,933.
Walsh, George M., 3,484,737.
Wonson, Roger C., 3,473,046.
Rayward, William Clifford: *See—*
Buckerridge, Edward Thomas; Jones, Alan Victor; and Rayward, William Clifford,3,478,181.
Razaitis, Leo C.; Meng, John D.; and Nowell, John R., to General Electric Company. Signal pulse shaper. 3,437,833, 4-8-69, Cl. 307-231.
Razemerov, Vladimir Ivanovich: *See—*
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razemerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,477,301.
Razi, Syed: *See—*
Gorbatenko, George G.; Jursik, James; Kimmel, Milton J.; Razi, Syed; and Wilson, Norman D.,3,460,131.
Razmerov, Vladimir Ivanovich: *See—*
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,438.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,439.
Razmerov, Vladimir Ivanovitch: *See—*
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovitch; and Khaidurov, Leonid Konstantinovich,3,467,437.
Raznick, Aaron L.: *See—*
Eizenberg, Arthur, 3,469,451.
Raznick, David L.: *See—*
Eizenberg, Arthur, 3,469,451.
R B & W Fabricated Metal Products, Inc.: *See—*
Onufer, George Rohall, 3,460,682.
RC-Ninty Five Incorporated: *See—*
Birken, Karl, 3,478,589.
RCA Corporation: *See—*
Ahrons, Richard W., 3,452,333.
Amick, James A., 3,477,872.
Anderson, Charles H., 3,454,885.
Anderson, George Edward; and Willis, Donald Henry, 3,487,165.
Angel, Karl W., 3,452,299.
Austin, Wayne M., 3,473,052.
Avina, Jack, 3,462,694.
Avins, Jack; and Craft, Jack, 3,467,909.
Avins, Jeremiah Yl; and Miller, James C., 3,459,287.
Bailey, Robert Linton; and Doner, Claude Edward, 3,477,032.
Barkow, William H., 3,478,245.
Barkow, William Henry; and Brasen, Daniel, 3,447,853.
Bazin, Lucas J., 3,463,962.
Bedford, Alda V., 3,485,237.
Beelitz, Howard R., 3,470,486.
Beltz, John P.; and Phelps, Donald E., 3,465,130.
Bertram, Howard W.; Hart, Oliver P.; and Kleppinger, Robert E., 3,465,210.
Brill, Frederick W.; and Weingarten, Morris R., 3,477,835.
Buchsbaum, Walter H., 3,482,243.
Burns, Joseph R.; and Gibson, John James, 3,457,435.
Carley, Donald R., 3,478,161.
Carnt, Peter Swift, 3,461,226.
Carter, George W., 3,480,873.
Chang, Kern K. N., 3,466,575.
Chang, Kern K. N., 3,470,375.
Chin, Te Ning, 3,482,191.
Coleman, John W., 3,452,241.
Cope, Appleton D.; Luedicke, Edward; and Ziemelis, Ojars J., 3,471,741.
Cornely, Roy H.; and Kosonocky, Walter F., 3,467,906.
Corson, Carl R., 3,463,880.
Cosentino, Louis S.; and Stewart, Wilber C., 3,482,220.
Crookshanks, Paul Edward; and Altmanshofer, Robert Dale, 3,461,225.
Curtis, Edward Wesley; and Jobe, Thornley C., 3,454,708.
Dawson, Robert H.; Ditrick, Norman H.; and Mitchell, Muni M., 3,455,020.
Del Vecchio, Nicholas A., 3,480,762.
Delany, James F.; and Walter, Gerard O., 3,479,934.
Delivorias, Peter, 3,461,361.
Denning, Richard; and Tollin, Charles L., 3,465,209.
Dietz, Wolfgang F., 3,449,623.
Dietz, Wolfgang F. W., 3,452,244.
Dillon, Luke, Jr., 3,473,094.
Dingwall, Andrew G. F., 3,451,858.
Dingwall, Andrew G. F., 3,485,679.
Donovan, David A., 3,465,577.
Dorsey, Denis P.; and Bruce, Ross W., 3,469,032.

Dusheck, George J., Jr., 3,453,540.
Enstrom, Ronald E.; and Appert, John R., 3,484,208.
Evans, Wayne Wheeler, 3,469,025.
Everhard, Frederic U.; and Hartwell, Robert E., 3,461,727.
Everhard, Fredric U., 3,465,790.
Fassett, Gardner L.; and van Renssen, Marinus, 3,482,286.
Fatuzzo, Ennio; and Merz, Walter J., 3,463,973.
Floden, Bjorn F., 3,462,215.
Floyd, Terence J.; and Warren, Henry Ray, 3,481,214.
Gange, Robert A.; and Nagle, Eugene, 3,483,517.
Gibson, John James; and Burns, Joseph R., 3,449,594.
Gilbert, George J., 3,453,724.
Gilbert, George J., 3,479,570.
Gottfried, William, 3,483,615.
Granger, Clifford E., 3,470,391.
Gray, George W., 3,457,547.
Griepentrog, Dal Frank, 3,487,339.
Grimes, Milton J.; and Meisel, Herbert R., 3,465,212.
Grimes, Milton J.; Henrikson, Donald F.; and Meisel, Herbert R., 3,478,420.
Hanak, Joseph J., 3,472,694.
Hanak, Joseph John, 3,479,738.
Hanchett, George D., 3,469,113.
Harwood, Leopold A., 3,469,195.
Haynes, Harold E.; and Hudson, Kenneth C., 3,448,211.
Heilmeier, George H.; and Zanoni, Louis A., 3,449,824.
Henn, William, 3,450,897.
Henn, William, 3,457,434.
Hernqvist, Karl G., 3,486,058.
Hershenov, Bernard, 3,456,213.
Herzfeld, Fred; and van Hekken, Frans, 3,476,025.
Hirsch, Charles J., 3,478,360.
Horan, John J.; and Rudomanski, Andrew C., 3,487,213.
Hsieh, Peter K., 3,460,043.
Hudson, Kenneth C., 3,465,347.
Hui, William L. C.; and Auth, George R., 3,483,038.
Hursh, Neal W., 3,450,935.
Hursh, Neal W.; and Moorcland, Ronald R., 3,479,566.
Iannuzzi, William P., 3,469,022.
Johnson, Sigurd W., 3,467,468.
Kaplan, Kenneth R., 3,456,126.
Kaplan, Kenneth R., 3,458,734.
Kaplan, Leonard A.; and Hart, Oliver P., 3,482,167.
Kelly, John B., 3,457,556.
Kern, Werner, 3,481,781.
Knight, Mark Berwyn, 3,450,936.
Knight, Mark Berwyn, 3,456,075.
Kosonocky, Walter F., 3,458,733.
Kudman, Irwin, 3,460,996.
Lamorte, Michael F.; and Nyul, Paul, 3,471,923.
Larach, Simon; Shrader, Ross E.; and Yocom, Perry N., 3,454,715.
Larach, Simon, 3,454,716.
Larach, Simon; and Yocom, Perry N., 3,459,667.
Lechner, Bernard J., 3,478,224.
Levy, Saul Y., 3,470,540.
Lewin, Morton H., 3,466,646.
Lichowsby, Abraham, 3,478,339.
Lichowsky, Abraham, 3,460,120.
Lieser, Zeev, 3,480,940.
Longley, Lester A., 3,461,968.
Lynn, Seymour; and Ries, Warren Calvin, 3,449,650.
Matzelle, Arnold; and Hahn, Arthur Edward, Jr., 3,487,338.
Mayor, Anibal; and Dean, Jack A., 3,459,993.
McCabe, Philip G., 3,459,989.
Meyer, Charles B., 3,471,745.
Miller, Henry S.; Linhardt, Robert J.; and Sidnam, Robert D. 3,462,742.
Miller, James C.; and Wine, Charles M., 3,466,625.
Milnes, James Allen, 3,466,549.
Montgomery, Donald H., 3,479,650.
Mortimer, Austin J., 3,471,771.
Nicoll, Frederick H., 3,475,170.
O'Connell, Philip E., 3,477,727.
Oates, William L., 3,453,545.
Olden, Roger G., 3,469,911.
Parker, William N., 3,474,209.
Pensak, Louis, 3,478,260.
Perlman, Stuart S.; and Silver, Robert S., 3,450,966.
Poitras, Donald J., 3,469,203.
Pratt, John Norman, 3,454,709.
Pritchard, Dalton Harold, 3,452,233.
Pryor, Richard L., 3,460,094.
Rhyne, Orville T., 3,479,617.
Robbi, Anthony D.; and Tuska, James W., 3,469,245.
Robinson, Paul Harvey, 3,476,617.
Ross, Daniel L., 3,451,009.
Roys, Henry E., 3,485,959.
Rutishauser, Ernst, 3,466,574.
Samusenko, Anatol G., 3,457,455.
Sanford, Robert F., 3,472,962.
Sass, Andrew R.; and Lohner, Erwin K., 3,460,101.
Scheffer, Harvey D. Gibson, 3,448,777.
Schilling, Ronald B.; and Wine, Charles M., 3,465,292.
Schindler, Henry C., 3,458,293.
Scott, Joseph H., Jr.; and Olmstead, John A., 3,449,647.
Scott, Joseph H., Jr., 3,460,007.
Scott, Joseph H., Jr., 3,472,689.
Shashoua, Fred Ezra, 3,470,310.
Silverman, Bernard P.; and Currie, Harold B., 3,465,288.
Simon, Ralph E.; Williams, Brown F.; and Wasserman, Ralph, 3,478,213.
Simshauser, Elvin D., 3,465,199.
Slusarski, John F.; and Konkel, John A., 3,461,234.
Speer, Walter F.; and Simmons, James M., 3,477,299.
Sperber, Edward J., 3,459,055.
Srinivasan, Chitoor V., 3,478,313.
Starger, Samuel L., 3,469,017.
Steele, Martin C.; and Califano, Francesco Paolo, 3,477,041.
Sterzer, Fred, 3,454,771.
Stockdale, George F.; and Metz, Edmund N., 3,472,413.
Stockdale, George F., 3,472,640.
Stoudenheimer, Richard G.; and Ezard, Lawrence A., 3,474,275.
Swartz, George Allan, 3,453,560.
Turecki, Anatole; and Vallee, Johnny A., 3,482,172.
Turner, Carl R.; and Schiff, Peter, 3,462,643.
Vallee, John A., 3,452,348.
Vigil, David A., 3,478,262.
Wang, Chih Chun, 3,472,615.
Warren, Henry Ray, 3,482,038.
Watson, James P., 3,451,516.
Wen, Cheng P., 3,487,329.
Wennik, Lawrence Paul; and Scott, Phillips Brooks, 3,476,954.
Wheatley, Carl F., Jr., 3,449,622.
Williams, Robert A., 3,434,123.
Willis, Donald H., 3,472,954.
Winder, Robert O., 3,487,316.
Wine, Charles M.; and Miller, James C., 3,462,747.
Wittmann, Erwin J., 3,460,049.
See also: Radio Corporation of America

R. D. Products Incorporated: *See—*
Dalton, Robert L., 3,430,196.

Re, Frank M., to Dual Manufacturing & Engineering, Inc. Reclining mechanism for T cushion chair. 3,433,527, 3-18-69, Cl. 297-85.

Rea, Fred G., to Sola Basic Industries, Inc. RMS sensing circuit. 3,459,995, 8-5-69, Cl. 315-200.

Rea, Fred G., to Sola Basic Industries, Inc. Constant current regulator. 3,469,176, 9-23-69, Cl. 323-4.

Rea, Kenneth R.: *See—*
Van Hart, James E., Jr.; and Rea, Kenneth R.,3,465,699.

Rea, Robert F., to Champion Spark Plug Company. Method for making an insulator. 3,442,693, 5-6-69, Cl. 117-123.

Rea, Robert F.; and Dulin, Francis H., to Champion Spark Plug Company. Method of accurately producing an abrasive surface of revolution. 3,441,487, 4-29-69, Cl. 204-9.

Rea, Wallace D. Aircar. 3,424,404, 1-28-69, Cl. 244-12.

Reabe, Kenneth G.: *See—*
Dressler, Hans; and Reabe, Kenneth G.,3,452,075.

Reach, Roy W.; and Shapiro, David, to Wright, Barry, Corporation, mesne. Shift register having main and auxiliary shift windings. 3,438,011, 4-8-69, Cl. 340-174.

Reachert, Donald R. Food extruding machine. 3,468,354, 9-23-69, Cl. 146-78.

Reactive Metals, Inc.: *See—*
Bertea, Octavian; Bomberger, Howard B., Jr.; and Plock, Layne F., 3,469,975.
Bomberger, Howard B., Jr.; and Warmuth, Donald B., 3,436,277.
Kastanek, Joseph; and Kessler, Harold D., 3,470,034.
Stark, Louis E.; and Bertea, Octavian, 3,476,171.

Reactor Centrum Nederland: *See—*
Bogaardt, Maarten, 3,425,904.
Bonsel, Wouter G.; and Weevers, Henry H., 3,425,907.
Spruyt, Adriaan; Matteman, Joseph L.; and Bottinga, Harmen, 3,485,362.
van den Brink, Jan, 3,464,290.
Walrave, Wilhelmus K. A., 3,482,377.

Read, Brian Neville: *See—*
Barker, John; Gonek, Stanislaw Mieczyslaw; and Read, Brian Neville,3,443,484.

Read, Charles F. Air flow deflector for motor vehicles. 3,484,130, 12-16-69, Cl. 296-1.

Read, Chester L.: *See—*
Epperly, William R.; Read, Chester L.; and Lorenz, Maurice G.,3,468,791.

Read, Dale W., to Canadian International Paper Company. Lignosulfonate dispersing agents and process for producing same. 3,448,096, 6-3-69, Cl. 260-124.

Read, Douglas E.: *See—*
Elsevier, William; and Read, Douglas E.,3,463,685.

Read, Ivan Jay. Method of separating solids from liquids. 3,454,163, 7-8-69, Cl. 210-78.

Read, Kenneth G.: *See—*
Broadbent, Norman; and Read, Kenneth G.,3,435,348.
Read, Phillip J., to Northern Electric Company Limited. Method of coating refractory wares with magnesia. 3,450,574, 6-17-69, Cl. 148-6.3
Read, Richard E.: *See—*
Burnett, Lonnie A.; Rave, Joseph A., Jr.; Read, Richard E.; and Neal, Norman D.,3,486,012.
Read, Richard E., to Cincinnati Milling Machine Co., The. Machine tool control with cutter diameter compensation. 3,430,035, 2-25-69, Cl. 235-151.11
Read, Robert Emms, to Du Pont de Nemours, E. I., and Company. Water-repellent compositions. 3,459,696, 8-5-69, Cl. 260-28.5
Read, Wendell S.: *See—*
Fried, David L.; and Read, Wendell S.,3,426,207.
Read, William B., to Owens-Illinois, Inc. Pipe coupling. 3,428,337, 2-18-69, Cl. 285-18.
Reader, Paul D.; Kaufman, Harold R.; and Kerslake, William R., to United States of America, National Aeronautics and Space Administration. Ion thrustor cathode. 3,447,015, 5-27-69, Cl. 313-231.
Reader, Philip: *See—*
Barton, George C.; and Reader, Philip,3,481,308.
Reader, Trevor D., to Conrac Corporation. Fluidic nondestructive memory. 3,450,340, 6-17-69, Cl. 235-201.
Reader, Trevor D., to Sperry Rand Corporation. Optical logic system with a screen made of photochromic material. 3,476,459, 11-4-69, Cl. 350-160.
Readex Microprint Corporation: *See—*
Levine, Mark, 3,463,585.
Reading Company: *See—*
Busha, George F.; and Frees, Richard S., 3,456,828.
Fisher, Franklin G.; and Bollinger, Luther Lewis, Sr., 3,425,513.
Fisher, Franklin G.; and Bollinger, Luther Lewis, Sr., 3,449,026.
Reading, Oscar W. Color filter for light bulbs. 3,435,203, 3-25-69, Cl. 240-46.57
Readman, John, to Rolls-Royce Limited. Bearing assembly and method of manufacture of same. 3,428,379, 2-18-69, Cl. 308-236.
Reads Limited: *See—*
Ratzer, John Henry William, 3,452,694.
Readyhough, Peter A., to Textron Inc. Stapling device control circuit. 3,474,947, 10-28-69, Cl. 227-7.
Reagan, Bruce V., Jr.: *See—*
Reagan, Bruce V., Jr.; Notchev, John S.; and Cederwall, Leonard O., 3,430,302.
Reagan, Bruce V., Jr.; Notchev, John S.; and Cederwall, Leonard O., 50% to Lancea Corporation, and 50% to Reagan, Bruce V., Jr. Garment button. 3,430,302, 3-4-69, Cl. 24-108.
Reagan, Cleo A., to Indiana Brass Co., Inc., The. Lavatory drain. 3,465,372, 9-9-69, Cl. 4-204.
Reagan, Donald W.: *See—*
Mishcon, Lester; and Reagan, Donald W.,3,440,837.
Reagan, Harold D., to ACF Industries, Incorporated. Fabricated plug for spherical plug valve. 3,484,079, 12-16-69, Cl. 251-309.
Reagan, John E. Boat handling mechanism. 3,445,018, 5-20-69, Cl. 214-450.
Real, Mackey J., Jr.; Jeglum, Paul M.; and Bright, Boris E., to United States of America, Air Force. Sinusoidal linear oscillator. 3,429,175, 2-25-69, Cl. 73-1.
Real Patentauswertungs Anstalt: *See—*
Azzariti, Pietro, 3,463,106.
Real, Raymond V.: *See—*
Gauss, Hugo E.; Real, Raymond V.; and Rosa, Vincent J.,3,427,038.
Reale, Paul J.: *See—*
Hannis, Eugene S.; and Reale, Paul J.,3,434,677.
Realisations Ultrasoniques: *See—*
Dory, Jacques, 3,423,992.
Dory, Jacques, 3,431,774.
Realist, Inc.: *See—*
Giwosky, Harry L., 3,464,758.
Reames, Robert L. Cooking utensil. 3,439,603, 4-22-69, Cl. 99-355.
Reams, Clinton August. Helicopter wing device in combination with fixed wing aircraft. 3,486,715, 12-30-69, Cl. 244-2.
Reams, Robert M. Folding boom agricultural sprayer. 3,425,628, 2-4-69, Cl. 239-168.
Reams, William H., to United States of America, Navy. Submarine signal control device. 3,440,960, 4-29-69, Cl. 102-16.
Reap, William J., to International Business Machines Corporation. Detector with upper and lower threshold points. 3,487,233, 12-30-69, Cl. 307-235.
Rear, Melvin K.: *See—*
Penote, Vincent S.; and Rear, Melvin K.,3,421,235.
Reardon, Daniel E.; Wallace, Richard W.; and Beals, Raymond S., to Dresser Industries, Inc. Inclined kiln. 3,438,615, 4-15-69, Cl. 263-6.
Reardon, Daniel Richard. Safety release bumper tool. 3,461,982, 8-19-69, Cl. 175-294.
Reardon, Daniel R., to Cook Testing Co. Final flow period sample capturing tool. 3,426,847, 2-11-69, Cl. 166-150.
Reardon, John, to Uni-Tech Chemical Manufacturing Company. Salicylate method for the quantitative determination of ammonia nitrogen. 3,432,395, 3-11-69, Cl. 195-103.5
Reas, William H., to General Electric Company. Neptunium recovery process. 3,432,276, 3-11-69, Cl. 23-338.
Reaser, Warren E., to Sun Tool & Machine Company, The. Tangent grinder. 3,435,563, 4-1-69, Cl. 51-101.
Reash, Clair W., to Union Carbide Corporation. Getter construction. 3,428,168, 2-18-69, Cl. 206-0.4
Reath, Roger E.: *See—*
Raymond, Louis W.; and Reath, Roger E.,3,470,082.
Reaux, Donald J., to General Electric Company. Impeller for food waste disposer. 3,439,878, 4-22-69, Cl. 241-46.08
Rebar, Edward: *See—*
Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L.,3,451,724.
Rebarchek, Raymond. Easily erectable greenhouse. 3,453,786, 7-8-69, Cl. 52-63.
Rebaudo, Giovanni, to Montecatini Edison S.p.A. Preparation of a modified aminotriazinic resin and its mixtures. 3,476,828, 11-4-69, Cl. 260-849.
Rebechini, Peter G., to Skil Corporation. Blade tilting mechanism for power trowel. 3,477,353, 11-11-69, Cl. 94-45.
Rebeller, Michel: *See—*
Buisson, Andre; Trambouze, Pierre; Van Landeghem, Hugo; and Rebeller, Michel,3,468,057.
Rebelsky, William: *See—*
Bachelder, Albert J.; Hibben, George C.; and Rebelsky, William,3,455,692.
Rebenok, Anatoly Georgievich; Budenkov, Valentin Nikolaevich; Mezentsev, Jury Grigorievich; Vainshtein, Lazar Pinkhusovich; Durachenko, Mikhail Ivanovich; and Kovdrya, Ivan Timofeevich. Hatch cover for self-discharge railway cars. 3,457,879, 7-29-69, Cl. 105-377.
Reber, Harald, to Bosch, Robert, GmbH. Lead-acid storage battery. 3,457,112, 7-22-69, Cl. 136-26.
Reber, Harald, to Bosch, Robert, GmbH. Hermetically sealed storage battery including an auxiliary electrode. 3,462,303, 8-19-69, Cl. 136-3.
Reber, Martin R.; and Wagner, Paul H., to Phillips Petroleum Company. Control of amount of vapor in feed to vapor-liquid separation zone by detecting the temperature differential across a pressure differential zone. 3,453,182, 7-1-69, Cl. 203-2.
Reber, Robert L.: *See—*
Worchel, Gerald S.; and Reber, Robert L.,3,462,658.
Rebhun, Charles F.; and Roessing, Keith W., to Allegheny Ludlum Steel Corporation. Eccentricity determination system. 3,426,437, 2-11-69, Cl. 33-174.
Rebiscoul, Gerard Jean. Garment-treating machine. 3,477,620, 11-11-69, Cl. 223-51.
Reboul, Francois M. Natural light regenerating glare-shields. 3,423,148, 1-21-69, Cl. 350-264.
Reboux, Jean, to Commissariat a l'Energie Atomique. Electric induction furnace. 3,461,215, 8-12-69, Cl. 13-27.
Rebstock, Mildred C., to Parke, Davis & Company. Amino acid ester complexes. 3,475,470, 10-28-69, Cl. 260-472.
Rebuffie, Jean Claude: *See—*
Betoule, Michel; Petit, Rene; and Rebuffie, Jean Claude,3,444,414.
Rebuffoni, Martin; and Gamberg, Edward R., to Westinghouse Electric Corporation. Arc welding method and apparatus. 3,440,395, 4-22-69, Cl. 219-131.
Rebut, Paul-Henri; and Torossian, Antoine, to Commissariat à l'Energie Atomique. Electrical generators, more particularly for delivering electrical energy in pulse form. 3,470,454, 9-30-69, Cl. 322-20.
Recaro A.G.: *See—*
Resag, Jorg; and Fussnegger, Wolfgang, 3,471,892.
Resag, Jorg; and Fussnegger, Wolfgang, 3,474,487.
Recas, Francis, to Societe Anonyme Generale Alimentaire (GASA). Apparatus for the continuous treatment of confectionery ingredients. 3,446,136, 5-27-69, Cl. 99-234.
Recas, Francis, to Societe Anonyme Generale Alimentaire (GASA). Method for the continuous treatment of confectionery ingredients. 3,486,469, 12-30-69, Cl. 107-54.
Recca, Paquale F. J., to Western Union Telegraph Company, The. Reusable data card. 3,461,276, 8-12-69, Cl. 235-61.12
Recchia, Francesco P.: *See—*
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R.,3,437,680.
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R.,3,448,139.
Rech, Jakob, to Burroughs Corporation. Set screw feeding and handling apparatus. 3,438,411, 4-15-69, Cl. 144-32.
Rech, Jakob, to Burroughs Corporation. Workpiece holder. 3,463,477, 8-26-69, Cl. 269-265.
Rech, Raymond G., to Arens Controls Inc. Cable apparatus. 3,439,555, 4-22-69, Cl. 74-501.
Recherche et Industrie Therapeutiques R.I.T.: *See—*
De Somer, Pierre; Denys, Pierre; and Leyten, Roger, 3,438,859.

Rondelet, Jacques, 3,428,679.
Rondelet, Jacques, 3,456,007.
Recherches et Mecanique (R.E.M.) Societe Anonyme: *See—*
Upham, George B.; Mayer, Fernand; and Louis, Georges, 3,424,440.
Rechou, Jacques C.; and Slonneger, John L., to General Electric Company. Snap acting switch assembly. 3,466,587, 9-9-69, Cl. 337-347.
Rechtin, Clarence R., to Hamilton Kettles Division of Brighton Corporation. Mixing kettle. 3,482,823, 12-9-69, Cl. 259-102.
Recio, Orlando; Holloway, Richard A.; Lancaster, Ronald L.; Jones, Dennis J.; and Motley, George R. Passenger seat belt safety system for automotive vehicle. 3,437,993, 4-8-69, Cl. 340-53.
Reckard, John W., to Pico Corporation. Apparatus and method of bending pipe. 3,453,857, 7-8-69, Cl. 72-357.
Reckers, Donald J., to Pollution Controls, Inc. Vessel for aerobic digestion sewage treatment plant. 3,438,499, 4-15-69, Cl. 210-199.
Reckhow, Warren A.: *See—*
Lestina, Gregory J.; and Reckhow, Warren A.,3,432,300.
Reckitt & Sons Limited: *See—*
Bentley, Kenneth Walter, 3,433,791.
Bentley, Kenneth Walter, 3,442,900.
Bentley, Kenneth Walter; Hardy, Denis Geoffrey; and Smith, Alan Charles Brandon, 3,464,994.
Bentley, Kenneth Walter, 3,474,101.
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter, 3,464,992.
Mayor, Philip Arthur; Haddlesey, David Ian; Lewis, John William; and Bentley, Kenneth Walter, 3,464,993.
Recknagel, Fred M.: *See—*
Malby, Howard S.; Recknagel, Fred M.; and Tobie, Roger S.,3,437,016.
Reckziegel, Erich: *See—*
Ohlschlager, Hans; Riester, Oskar; Muller, Herbert; and Reckziegel, Erich,3,471,293.
Recognition Equipment Incorporated: *See—*
Childs, George William, 3,431,402.
Nunley, Leonard J., 3,484,747.
Perry, Edward Gordon, Jr., 3,432,646.
Sanner, Medford D., 3,460,673.
Staples, Ernest L., Jr., 3,421,753.
Woolfolk, Robert L., 3,460,118.
Recold Corporation: *See—*
Wile, Daniel D.; and Brainard, David S., 3,435,626.
Recovery Systems Research, Inc.: *See—*
Ferguson, Otis B., 3,420,478.
Ferguson, Otis B., 3,434,680.
Rectenwald, Charles E.; Keller, George E., II; and Clark, Jared W., to Union Carbide Corporation. Oxychlorination of hydrocarbons and a catalyst therefor. 3,427,359, 2-11-69, Cl. 260-659.
Rector, Charles W. Eyecap. 3,421,190, 1-14-69, Cl. 27-21.
Rector, Clifford C. Two-wheel hand cart with folding load supporting members. 3,456,960, 7-22-69, Cl. 280-47.29
Rector, Walter. Trocar button. 3,465,398, 9-9-69, Cl. 27-21.
Rector Well Equipment Company, Inc.: *See—*
Todd, William L.; and Ferguson, Bobby L., 3,437,356.
Red Arrow Products Corporation: *See—*
Hollenbeck, Clifford M., 3,480,446.
Red Devil Inc.: *See—*
Fancher, Leland J., 3,462,835.
Red Jacket Manufacturing Company: *See—*
Deters, Elmer M., 3,454,195.
Komor, Peter S., 3,457,866.
Komor, Peter S.; and Deters, Elmer M., 3,457,867.
Red Owl Stores, Inc.: *See—*
Weum, Dale A., 3,446,242.
Reda Pump Company: *See—*
Arutunoff, Armais, 3,424,485.
Arutunoff, Armais, 3,433,986.
Arutunoff, Armais, 3,468,258.
Reddel, Robert J.: *See—*
Hufton, Arthur G.; and Reddel, Robert J.,3,426,740.
Redden, Robert J., to ILC Industries, Inc. Fabric connector. 3,426,397, 2-11-69, Cl. 24-203.
Redden, Thomas Kennedy, to General Electric Company. Brazed titanium structure. 3,451,792, 6-24-69, Cl. 29-194.
Redden, Thomas K., to General Electric Company. Brazing alloy. 3,482,967, 12-9-69, Cl. 75-171.
Reddi-Bacon, Inc.: *See—*
Lane, Alan B., 3,469,998.
Reddie, William: *See—*
Miles, Russel T.; and Anderson, Philip R.,3,440,778.
Redding, David M.; and Redding, Rex G. Concrete form assembly. 3,428,287, 2-18-69, Cl. 249-13.
Redding, Edward M., to Printing Plate Supply Co. Method of producing molded printing plates. 3,427,970, 2-18-69, Cl. 101-401.1
Redding, Harry L.: *See—*
Alfes, John A.; Redding, Harry L.; and Roller, Albert E.,3,425,747.
Redding, Rex G.: *See—*
Redding, David M.; and Redding, Rex G.,3,428,287.
Redding, Thomas P.: *See—*
Aser, Gilbert A.; Figler, Robert H.; Manghirmalani, Arjan T.; and Redding, Thomas P.,3,435,500.
Draugelis, Vaidevutis C.; and Redding, Thomas P.,3,458,187.
Redditch Hosiery Needles Limited: *See—*
Blackwell, John K., 3,453,845.
Redditt, John R. Jiffy jack scaffold bracket and joint therewith. 3,467,418, 9-16-69, Cl. 287-20.92
Redditt, William M., III, to Hawaiian Sugar Planters' Association. Flow controlling irrigation apparatus. 3,464,209, 9-2-69, Cl. 61-12.
Redeker, Clark W.; and Schlosser, Ralph G., to FMC Corporation. Magnesium oxychloride-terrazzo surfaces. 3,482,493, 12-9-69, Cl. 94-22.
Redel, Joseph; and Boch, Jean Baptiste Christian, to A.E.C. Societe de Chimie Organiques et Biologique. C^{25} and C^{30} Polyenic beta-ketoketals and process of preparing the same. 3,424,798, 1-28-69, Cl. 260-586.
Redelman, Paul E., to Abex Corporation. Switching apparatus. 3,427,448, 2-11-69, Cl. 246-393.
Redelman, Paul E.: *See—*
Wilson, Rosser L.; and Redelman, Paul E.,3,483,368.
Redemann, Clio Ernst; and Seybert, Robert A., to Purex Corporation, Ltd. Method and penetrant for flaw detection. 3,436,959, 4-8-69, Cl. 73-104.
Reder, Josef, 1/3 to Olcott, Bernard. Cooling towers. 3,445,093, 5-20-69, Cl. 261-24.
Rederer, Carl G.; and Jenkins, Gerald L., to Eastman Kodak Company. Lens holding assembly. 3,441,339, 4-29-69, Cl. 350-255.
Redfarn, Cyril Aubrey, to Nelsons Silk Limited. Finished flame-resistant textile materials. 3,471,318, 10-7-69, Cl. 117-136.
Redfield, David, to Union Carbide Corporation. Junction laser with controlled output. 3,431,512, 3-4-69, Cl. 331-94.5
Redfield, William H.: *See—*
St. Clair, Donald R.; and Redfield, William H.,3,446,178.
Redhead, Paul Aveling, to Canadian Patents and Development Limited. Ionization vacuum gauge with X-ray shielding and ion reflecting means. 3,465,189, 9-2-69, Cl. 313-7.
Redi Container Corporation: *See—*
Taylor, Robert E., 3,443,684.
Redifon Air Trainers Limited: *See—*
Mottram, John Ernest, 3,454,712.
Rutherford, Stuart Henry, 3,455,626.
Redifon Limited: *See—*
Rogers, Ernest William; Dillon, Peter; and Mitchell, Christopher Richard, 3,480,871.
Rediker, Robert H.; Hinkley, Everett D.; and Jadus, Dale K., to Massachusetts Institute of Technology. Semiconductor heterojunction diode. 3,486,949, 12-30-69, Cl. 148-33.4
Reding, John N., Jr.; and Berhenke, Norman H., to Dow Chemical Company, The. Fluid sludge method. 3,420,658, 1-7-69, Cl. 75-67.
Reding, John T.; and Newport, John J., III, to Dow Chemical Company, The. Al-Hg-Bi alloy galvanic anode. 3,424,666, 1-28-69, Cl. 204-197.
Redington Counters, Inc.: *See—*
Knox, Francis P., 3,421,690.
Redland Tiles Limited: *See—*
Carter, George Harold, 3,434,260.
Redlich, Horst: *See—*
Klemp, Hans-Joachim; and Redlich, Horst,3,457,374.
Redlick, Richard: *See—*
Finch, Harvey E., 3,444,077.
Finch, Harvey E., 3,451,944.
Redman, Derek Harry, to Hancock & Co. (Engineers) Limited. Automatic punch control circuit. 3,462,844, 8-26-69, Cl. 33-18.
Redman, Derek H.: *See—*
Bardwell, Francis G.; and Redman, Derek H.,3,423,589.
Redman, Derek H., to Hancock & Co. (Engineers) Limited. Torch machine for cutting castellated shapes. 3,472,501, 10-14-69, Cl. 266-23.
Redman, James Charles; Montgomery, Richard M.; and Werner, Richard L., to Werner, R. D., Co., Inc. Ladder locks. 3,454,135, 7-8-69, Cl. 182-209.
Redman, James H., to Stromberg-Carlson Corporation. Display tubes and systems. 3,474,445, 10-21-69, Cl. 343-7.7
Redman, Michael J., to Kennecott Copper Corporation. Zinc tellurite glasses. 3,423,326, 1-21-69, Cl. 252-301.6
Redman, Richard A. Miniature belt grinder. 3,427,757, 2-18-69, Cl. 51-170.
Redman, Samuel A., to National Cash Register Company, The. Self-adhering feed roll. 3,462,058, 8-19-69, Cl. 226-191.
Redman, William J.; and Schmieman, Thomas E., to United States Steel Corporation. Fluid end construction for plunger pumps. 3,427,988, 2-18-69, Cl. 103-153.
Redmayne, Leonard; and Wade, Maurice A, to Girling Limited. Disc brakes. 3,470,985, 10-7-69, Cl. 188-73.
Redmon, James M. Chandler. Wire-bending pliers. 3,421,553, 1-14-69, Cl. 140-106.

Redmon, James R.: *See—*
Park, James H., III; Redmon, James R.; and Leverett, Wilton H.,3,450,383.
Redmond, Benjamin. Seat belt safety system for motor vehicles. 3,438,455, 4-15-69, Cl. 180-82.
Redmond, Melvin W., Jr., to Perkin-Elmer Corporation, The. Chromatographic instrument. 3,422,603, 1-21-69, Cl. 55-386.
Redmond, Peater van Dillard. Boat with air propulsion and support means. 3,431,881, 3-11-69, Cl. 115-11.
Redmond, Peter M.; and Waszak, Lawrence, to United States of America, Navy. Laser, weapon simulator. 3,447,033, 5-27-69, Cl. 315-241.
Redmond, William G., Jr., to Ling-Temco-Vought, Inc. All electronic synchronizer. 3,427,522, 2-11-69, Cl. 318-489.
Redmond, William G.: *See—*
Barber, Harold G.; and Redmond, William G.,3,428,864.
Redmore, Derek: *See—*
Annand, Robert R.; Redmore, Derek; and Rushton, Brian M.,3,450,646.
Redna Manufacturing Agency: *See—*
Quinn, Reginald S., 3,445,097.
Redo, Saverio F.: *See—*
Barnes, William A.; and Redo, Saverio F.,3,487,150.
Redor, Richard M.; and Rosul, John W. Cartridge unit for coils. 3,472,463, 10-14-69, Cl. 242-78.7
Redpath, George H. Displacement measuring device. 3,429,047, 2-25-69, Cl. 33-172.
Redpath, Gregory L. Vibrator for dumping vehicles. 3,438,677, 4-15-69, Cl. 298-1.
Redus, James E. Partition for vehicle bodies. 3,469,090, 9-23-69, Cl. 296-24.
Redway, George F.: *See—*
Whitmore, Chatland; and Redway, George F.,3,478,579.
Redwine, Fletcher H.; Newman, James L.; and Osborn, William F., to Core Laboratories, Inc. Apparatus for lithologic logging of underground formations by acoustic vibrations. 3,486,375, 12-30-69, Cl. 73-152.
Redwine, Richard H.; and Schmid, Anthony P., to Owens-Illinois, Inc. Conductive glass-ceramic product having a high dielectric constant and method of making same. 3,484,258, 12-16-69, Cl. 106-39.
Redzinski, Gilbert E.; and Soltis, Joseph P., Jr., to General Electric Company. Instantaneous overload protector for an X-ray tube responsive to a combination of tube factor settings. 3,459,941, 8-5-69, Cl. 250-95.
Reeb, Elizabeth: *See—*
Wright, Ralph J., 3,456,678.
Reeber, Morton D.: *See—*
Jackson, James S.; and Reeber, Morton D.,3,436,104.
Reece, Asa M.: *See—*
Taylor, Wallace M., Jr.; and Reece, Asa M.,3,440,993.
Reece Construction Co., Inc.: *See—*
Kohls, Dennis E.; Moe, Donald L.; and Reece, Harry W., 3,433,315.
Reece Corporation, The: *See—*
Miller,Roy E.; and Miller, Robert F., 3,420,199.
Reece, Floyd N., to Hesston Manufacturing Company, Inc. Wafering machine and method. 3,422,747, 1-21-69, Cl. 100-35.
Reece, Harry W.: *See—*
Kohls, Dennis E.; Moe, Donald L.; and Reece, Harry W.,3,433,315.
Reece, Orvil Y., to United States of America, National Aeronautics and Space Administration. Low temperature flexure fatigue cryostat. 3,465,569, 9-9-69, Cl. 73-15.4
Reece, Orvil Y., to United States of America, National Aeronautics and Space Administration. Horizontal cryostat for fatigue testing. 3,469,437, 9-30-69, Cl. 73-15.6
Reece, Wendell Dale; and Leonard, Ronald Keith, to Deere & Company. Cotton harvester. 3,484,802, 12-16-69, Cl. 56-12.
Reed, Allan K.: *See—*
Goldberger, William M.; Reed, Allan K.; and Snavely, Cloyd A.,3,448,234.
Reed, Alun John, to Dunlop Company Limited, The. Conductor spacers for multi-conductor electrical overhead transmission lines. 3,475,544, 10-28-69, Cl. 174-42.
Reed, Alun John, to Metalastik Limited. Vibration absorbers. 3,478,160, 11-11-69, Cl. 174-42.
Reed, Benjamin E., Jr.: *See—*
Page, Robert Z.; and Reed, Benjamin E., Jr.,3,467,546.
Hawes, Robert O.; Page, Robert Z.; and Reed, Benjamin E.,3,469,867.
Reed, Bruce S.; and Wingo, Dale T., to Texas Instruments, Incorporated. Packaged multilead semiconductor device with improved jumper connection. 3,436,606, 4-1-69, Cl. 317-101.
Reed, Buckley: *See—*
Hornung, Stephen A.; and Reed, Buckley,3,435,917.
Reed, Charles E.: *See—*
Tetrick, Harlan M.; and Reed, Charles E.,3,468,369.
Reed, Charles L., Jr.; and Smith, Russell G., to Continental Manufacturing Company. Valve with destructible sealing means. 3,472,254, 10-14-69, Cl. 137-72.
Reed, Charles R., to Global Marine Inc. Pipe stabber. 3,467,262, 9-16-69, Cl. 214-2.5
Reed, Claude R.; Elderidge, John W., Jr.; and Lanari, Raymond, deceased0 (by Lanari, Susan M.; executrix), to Texaco Inc. Analog calculator for determining percentage calculations based on constituent measurements. 3,469,083, 9-23-69, Cl. 235-151.35
Reed, David S.: *See—*
Darigo, Julius; Dickey, Rex E.; and Reed, David S.,3,431,612.
Reed, Duane C., to Nash, L. W., Company, mesne. Coil- and spool-handling apparatus. 3,438,593, 4-15-69, Cl. 242-79.
Reed, Edward A.; and Muncheryan, Hrand M. Audio-to-visual pattern converting apparatus. 3,478,637, 11-18-69, Cl. 84-464.
Reed, Edward F.: *See—*
Jones, Allen H.; and Reed, Edward F.,3,453,810.
Reed, Edward W., Jr., to Minnesota Mining and Manufacturing Company. Scan line masking system. 3,437,870, 4-8-69, Cl. 315-31.
Reed, Edward W., Jr.: *See—*
Dubbe, Richard F.; and Reed, Edward W., Jr.,3,444,317.
Reed Electromech Corporation: *See—*
Schmitt, Donald E.; Manzer, Marvin R.; and Clay, Howard W., 3,460,663.
Reed, Frank J., to Philco-Ford Corporation. Card reading apparatus. 3,430,033, 2-25-69, Cl. 235-61.11
Reed, Frederick P., to United States of America, Army. Firing mechanism for a rifle mounted auxiliary firearm. 3,421,244, 1-14-69, Cl. 42-69.
Reed, Gaylard O. Structural brace. 3,466,071, 9-9-69, Cl. 287-20.92
Reed, Gaylard O., to Salem Equipment, Inc. Veneer lathe knife tilting support. 3,473,584, 10-21-69, Cl. 144-212.
Reed, George Andrew: *See—*
Warson, Henry; and Reed, George Andrew,3,431,226.
Reed, Gordon Howard, to Television Research Limited. Magnetic transducer track changing apparatus. 3,470,327, 9-30-69, Cl. 179-100.2
Reed, Jack Owen, to Phytogen Products, Inc. Subcutaneous implant device. 3,443,561, 5-13-69, Cl. 128-260.
Reed, James S. Lawn mower havng a removable endless cutter. 3,425,196, 2-4-69, Cl. 56-25.
Reed, Jerry A.: *See—*
Lagerstrom, Thomas G.; and Reed, Jerry A.,3,451,306.
Reed, Kenneth James; and Lythgoe, Alan Lennox, to Letraset Limited. Dry transfer sheets and processes for using the same. 3,432,376, 3-11-69, Cl. 156-234.
Reed, Leo O.: *See—*
Archer, William E.; Coe, Everett L., Jr.; and Reed, Leo O.,3,477,124.
Archer, William E.; Coe, Everett L., Jr.; and Reed, Leo O.,3,485,011.
Reed, Leonard J.; and Morrison, John R., to International Business Machines Corporation. Method of making fine line patterns using a ferromagnetic element. 3,451,128, 6-24-69, Cl. 29-604.
Reed, Leonard: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,481,638.
Reed, M. T. Construction Co.: *See—*
Murphy, Thomas L., Jr., 3,440,134.
Reed Manufacturing Company: *See—*
Brown, Thomas G., 3,421,492.
Reed, Marvin T. Antenna stand. 3,452,956, 7-1-69, Cl. 248-237.
Reed, Marvin Wendele; and Reed, Maurice Verion, 10% to Lee, Raymond, Organization, Inc., The. Fuel delivery unit with pump switch cut-off. 3,435,991, 4-1-69, Cl. 222-20.
Reed, Maurice Verion: *See—*
Reed, Marvin Wendele; and Reed, Maurice Verion,3,435,991.
Reed, Norman D.: *See—*
Ligon, Elmer R.; De Gasperi, Frank E.; and Reed, Norman D.,3,454,997.
Reed, Oscar Lee. Post forming machine. 3,479,704, 11-25-69, Cl. 25-41.
Reed, Ralph W.: *See—*
Klass, Nicholas P.; and Reed, Ralph W.,3,449,176.
Reed, Richard Eugene. Helicopter. 3,484,172, 12-16-69, Cl. 416-18.
Reed, Richard L.: *See—*
Haley, Kenneth M.; Molinaro, Lawrence J.; and Reed, Richard L.,3,438,491.
Reed, Robert A.: *See—*
Anderson, Frederick N.; Kennedy, Richard N.; and Reed, Robert A.,3,424,869.
Reed, Robert D., to Zink, John, Company. Flare stack burner. 3,429,645, 2-25-69, Cl. 431-202.
Reed, Robert D., to Zink, John, Company. Gas fueled igniter. 3,431,057, 3-4-69, Cl. 431-263.
Reed, Robert D., to Zink, John, Company. Burner and apparatus for reforming hydrocarbons. 3,477,824, 11-11-69, Cl. 23-277.
Reed, Robert E.: *See—*
Lehmkuhl, Robert A.; and Reed, Robert E.,3,452,427.
Reed, Robert G.: *See—*
Fleming, Gerald S.; Reed, Robert G.; and Seufert, John L.,3,453,620.

Reed Rolled Thread Die Co.: *See—*
Orlomoski, Roger W., 3,429,162.
Reed, Ronald H.: *See—*
Rys, Tadeusz J.; and Reed, Ronald H.,3,422,238.
Reed, Samuel F., Jr., to Rohm & Haas Company. Polymerizable carbamates containing nitrogen and fluorine. 3,436,381, 4-1-69, Cl. 260-86.1
Reed, Samuel F., Jr., to Rohm & Haas Company. Compounds containing nitrogen and fluorine. 3,436,382, 4-1-69, Cl. 260-86.1
Reed, Samuel F., Jr.: *See—*
Chaille, James L.; and Reed, Samuel F., Jr.,3,440,280.
Petry, Robert C.; and Reed, Samuel F., Jr.,3,439,039.
Reed, Samuel F., to Rohm & Haas Company. Pentaerythritol derivatives. 3,427,295, 2-11-69, Cl. 260-86.1
Reed, Stanley I., to Cellu-Craft Inc. Method and apparatus for forming a plastic bag with an integral pouch. 3,485,697, 12-23-69, Cl. 156-265.
Reed, Thomas G., Jr.; and Hinkson, Robert E., to Petro-Tex Chemical Corporation. Bonding poly(butene-1). 3,442,737, 5-6-69, Cl. 156-158.
Reed, Weldon N.: *See—*
Restaino, Alfred J.; and Reed, Weldon N.,3,461,052.
Reed, Weldon. Liquid feeder. 3,459,159, 8-5-69, Cl. 119-51.
Reed, William B.: *See—*
Hasten, Erwin J., Jr.; and Reed, William B.,3,437,341.
Reeder, Clyde. Concentration of phosphoric acid. 3,425,478, 2-4-69, Cl. 159-48.
Reeder, Earl: *See—*
Fryer, Rodney Ian; Reeder, Earl; and Sternbach, Leo Henryk,3,431,304.
Reeder, Earl; and Sternbach, Leo Henryk, to Hoffmann-La Roche, Inc. Process for preparing 5-phenyl-3H-1,4-benzodiazepin-2(1H)-ones. 3,427,304, 2-11-69, Cl. 260-239.3
Reeder, Edwin William: *See—*
Johnson, Leslie William; and Reeder, Edwin William,3,464,376.
Reeder, George E., Jr., to Beloit Eastern Corporation. Self-sharpening slitter. 3,459,086, 8-5-69, Cl. 83-425.
Reeder, George E., Jr., to Beloit Eastern Corporation. Self sharpening slitter. 3,465,631, 9-9-69, Cl. 83-500.
Reedy, Robert J., to United States of America, Health, Education and Welfare. Pipetting device for tissue culture dissemination. 3,463,013, 8-26-69, Cl. 73-425.6
Reedyk, Cornelis Wilfred: *See—*
Perlman, Martin Melvin; and Reedyk, Cornelis Wilfred,3,458,713.
Reedyk, Cornelis W., to Northern Electric Company, Limited. Field effect electroacoustic transducer. 3,436,492, 4-1-69, Cl. 179-111.
Reef-Baker Corporation: *See—*
Smith, Roy B., 3,456,591.
Reefman, Pieter David Cornelis, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Pulse transformer counting circuit. 3,444,388, 5-13-69, Cl. 307-88.
Reekie, James: *See—*
Davidson, Richard M.; and Reekie, James,3,450,468.
Henriksen, Elmer C.; and Reekie, James,3,454,714.
Reekie, James, to Bell & Howell Company. Image stabilization. 3,455,221, 7-15-69, Cl. 95-12.5
Reekie, James; and Thurston, Edward G., to Bell & Howell Company. Two-color display from line sequential color recording. 3,440,341, 4-22-69, Cl. 178-5.4
Reeks, Christopher George; and Davey, Anthony Walter, to Morris, Herbert, Limited. Means for automatically operating and controlling reciprocating motion. 3,462,883, 8-26-69, Cl. 49-360.
Reem, Richard Ellwood; and Ullman, Robert, to AMP Incorporated. Wire positioning apparatus. 3,455,006, 7-15-69, Cl. 29-203.
Reem, Richard Ellwood; and Vickery, John Roy, Jr., to AMP Incorporated. Method of electrical connections. 3,436,820, 4-8-69, Cl. 29-628.
Reenberg, Knud Rocland. Cardboard box. 3,465,945, 9-9-69, Cl. 229-34.
Reenstierna, Erik Gustaf Bertil: *See—*
Brynge, Per Gunnar; and Reenstierna, Erik Gustaf Bertil,3,425,376.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, to North American Philips Company, Inc.6 Halo-9β, 10α-steroids. 3,422,122, 1-14-69, Cl. 260-397.3
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, to North American Philips Company, Inc.16-Halo-9β,10α-steroids of the pregnane series. 3,437,675, 4-8-69, Cl. 260-397.3
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, to U.S. Philips Corporation, mesne. 9β,10α-Steroids, intermediates therefor and pharmaceutical preparations containing these compounds as an active ingredient. 3,445,489, 5-20-69, Cl. 260-397.4
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis. 6,17-Dimethyl-9β,10α-androstanes. 3,476,782, 11-4-69, Cl. 260-397.4
Reerink, Hans-Peter, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Aircraft speed controller. 3,448,948, 6-10-69, Cl. 244-77.
Rees Burner & Blow Pipe Co.: *See—*
Cowan, William C., 3,472,184.
Rees, Charles Sydney Loveless. Containers. 3,454,187, 7-8-69, Cl. 220-73.
Rees, David B.: *See—*
Jamerson, Frank E.; Leffert, Charles B.; and Rees, David B.,3,480,803.
Rees, David M., to Midland Silicones, Limited. Process for rendering paper abrasion resistant, adhesive and water-repellent employing siloxane composition. 3,436,251, 4-1-69, Cl. 117-155.
Rees, Donald: *See—*
Lake, Ronald Ernest; and Rees, Donald,3,440,559.
Rees, G. Herbert. Self-centering tail stock assembly. 3,422,709, 1-21-69, Cl. 82-33.
Rees, Herbert, to Husky Manufacturing and Tool Works Ltd. Molding machine. 3,454,991, 7-15-69, Cl. 18-30.
Rees, Herbert, to Husky Mnufacturing and Tool Works Ltd. Dual injection-molding machine. 3,482,284, 12-9-69, Cl. 18-30.
Rees, James D., Jr., to Xerox Corporation. Apparatus for changing the magnification of a photo- copier without changing the conjugate length of the optical system. 3,476,478, 11-4-69, Cl. 355-55.
Rees, Richard Watkin, to Du Pont de Nemours, E. I., and Company. Polymer blends. 3,437,718, 4-8-69, Cl. 260-889.
Rees, Richard Watkin, to Du Pont de Nemours, E. I., and Company. Amine-modified hydrocarbon polymers. 3,471,460, 10-7-69, Cl. 260-88.1
Rees, Richard W.: *See—*
Foell, Theodore J.; Rees, Richard W.; and Smith, Herchel,3,455,909.
Rees, Richard W.; Foell, Theodore J.; and Smith, Herchel, to American Home Products Corporation. Process for the preparation of steroidal 1,4-dienes unsubstituted in the 3-position..3,479,340, 11-18-69, Cl. 260-239.55
Rees, Richard W.; and Smith, Herchel, to American Home Products Corporation. Preparation of 10β-methyl-13-polycarbonalkyl-4-en-3-ones. 3,458,503, 7-29-69, Cl. 260-239.55
Rees, Richard W.; and Smith, Herchel, to American Home Products Corporation. 13-Alkyl-9-chloromethylgon-4-en-17β-ol-3- ones and intermediates therefor. 3,475,469, 10-28-69, Cl. 260-397.45
Rees, Robert L.: *See—*
Rakes, James L.; Rees, Robert L.; and Held, Edward C., Jr.,,3,474,165.
Rees, Robin Gore, to Desmond Martin Forde. Skirt fringing apparatus. 3,447,211, 6-3-69, Cl. 28-18.
Rees, Spencer C., to Singer Company, The. Reversible hammer drill mechanisms. 3,430,707, 3-4-69, Cl. 173-48.
Rees, Spencer C., to Singer Company, The. Rack and pinion depth-of-cut adjusting mechanism for portable routers. 3,466,973, 9-16-69, Cl. 90-12.
Rees, Spencer C., to Singer Company, The. Double insulated power tools. 3,476,960, 11-4-69, Cl. 310-50.
Rees, Vernon C., to Owens-Corning Fiberglas Corporation. Control apparatus. 3,467,947, 9-16-69, Cl. 340-172.5
Reese, Cecil E., to Du Pont de Nemours, E. I., and Company. Bulkable composite polyester yarn of continuous filaments having different residual shrinkage after boiloff. 3,444,681, 5-20-69, Cl. 57-140.
Reese, Cecil E., to Du Pont de Nemours, E. I., and Company. Process for producing composite polyester yarn that bulks at elevated temperatures. 3,468,996, 9-23-69, Cl. 264-103.
Reese, Elmer E., to General Motors Corporation. Windshield wiper system recessed in automobile air intake. 3,421,174, 1-14-69, Cl. 15-250.19
Reese, Frank L.: *See—*
Colclaser, Robert G., Jr.; and Reese, Frank L.,3,458,676.
Reese, Glenn A.; and Pearson, Gustavus B., to Magnavox Company, The. Facsimile transceiver. 3,469,027, 9-23-69, Cl. 178-6.
Reese, Glenn A.; and Pearson, Gustavus B., to Magnavox Company, The. Optical facsimile scanning system. 3,475,553, 10-28-69, Cl. 178-7.6
Reese, Glenn A.: *See—*
Crane, Paul J.; and Reese, Glenn A.,3,449,522.
Reese, Gunter: *See—*
Berth, Peter; Reese, Gunter; and Boosen, Karl-Josef,3,464,778.
Boosen, Karl-Josef; Berth, Peter; and Reese, Gunter,3,482,923.
Reese, Gunter; and Felletschin, Gunter, to Henkel & Cie, G.m.b.H. Corrosion inhibiting additive compositions for fuel oils. 3,429,673, 2-25-69, Cl. 44-66.
Reese, James R. Transparency assemblies. 3,425,148, 2-4-69, Cl. 40-158.
Reese, John S., to Electronic Communications, Inc. Blocking oscillator D.C. voltage regulator. 3,461,377, 8-12-69, Cl. 323-22.
Reese, Michael, Research Foundation: *See—*
Naftulin, Henry, 3,459,182.
Reese Products, Inc.: *See—*
Reese, Robert P., 3,482,856.

Reese, Richard G.: *See—*
Smith, Theodore R.; and Reese, Richard G.,3,446,459.
Reese, Richard R.: *See—*
Scott, Robert A.; Reese, Richard R.; and Scott, David A.,3,476,087.
Scott, Robert A.; Reese, Richard R.; and Scott, David A.,3,485,215.
Reese, Richard S.: *See—*
O'Leary, John P.; Woolaway, Thomas P.; Reese, Richard S.; and Feuchtwanger, Joseph,3,451,536.
Reese, Robert P., to Reese Products, Inc. Trailer hitch. 3,482,856, 12-9-69, Cl. 280-406.
Reese, William Aubrey. Fishing device. 3,443,336, 5-13-69, Cl. 43-44.88
Reese, William D., to Diamond Shamrock Corporation. Borated dextrin-silicate adhesives. 3,433,691, 3-18-69, Cl. 156-195.
Reeve, Clifford L.; and Vautrain, Lucien H., to Phillips Petroleum Company. Valve for delivering fluid at constant velocity. 3,438,395, 4-15-69, Cl. 137-561.
Reeve, Curtis Terry. Motorcycle muffler. 3,482,648, 12-9-69, Cl. 181-36.
Reeve Electrical Co., Inc., The: *See—*
Caretto, Howard L., 3,423,547.
Reeve, Hal B.; Brettrager, Henry J.; and Rader, Elmer A. Methods for thinning row crops. 3,425,495, 2-4-69, Cl. 172-1.
Reeve, Leonard; Brown, Stanley Clifford; and Beckett, Harold, to Wickman Wimet Limited. Toolholders for use with detachable inserts. 3,469,296, 9-30-69, Cl. 29-96.
Reever, Karl D.; Boynton, Sumner H.; and Berry, Robert D., to USM Corporation. Shoemaking methods. 3,462,782, 8-26-69, Cl. 12-142.
Reeves, Alec Harley; and Kitajewski, Ryszard, to International Standard Electric Corporation. Digitally expanding decoder for pulse code modulation systems. 3,470,387, 9-30-69, Cl. 307-231.
Reeves, Alec Harley; and Price, John Clifford, to International Standard Electric Corporation. Parallel-to-serial converter for a binary code generator. 3,430,228, 2-25-69, Cl. 340-347.
Reeves, Anthony John: *See—*
Clarke, Stanley Frederick; Radcliffe, Stuart Norman; and Reeves, Anthony John,3,427,555.
Reeves Brothers, Inc.: *See—*
Blue, Sidney D., 3,441,464.
Mater, Charles E., 3,486,968.
Reeves Company, Inc.: *See—*
Reeves, Robert J., 3,462,863.
Reeves Industries, Inc.: *See—*
Beck, Charles K.; and Nohe, David L., 3,484,286.
Reeves, James W., to Du Pont de Nemours, E. I., and Company. Fluid bed cooler for gas separation. 3,443,360, 5-13-69, Cl. 55-71.
Reeves, Jerry H., III: *See—*
Bolling, Robert W., Jr.; Fenwick, Willis L.; and Reeves, Jerry H., III,3,473,723.
Reeves, John F.: *See—*
Lickeliter, Robert P.; Abbott, Earl; and Reeves, John F.,3,478,678.
Lickliter, Robert P.; Abbott, Earl; and Reeves, John F.,3,450,037.
Lickliter, Robert P.; Abbott, Earl; and Reeves, John F.,3,481,088.
Reeves, John R.; and Sanders, David Charles, to Plessey Company Limited, The. Apparatus for frequency and phase comparison of two periodic signals. 3,441,745, 4-29-69, Cl. 307-87.
Reeves, Louie E. Self-cooled oil well polish rod stuffing box. 3,468,374, 9-23-69, Cl. 166-84.
Reeves, Robert Bruce; and Coulter, John Q., to General Electric Company. Vacuum reactor for vapor deposition on continuous filaments. 3,452,711, 7-1-69, Cl. 118-49.5
Reeves, Robert J., to Reeves Company, Inc. Mounting insignia. 3,462,863, 8-26-69, Cl. 40-1.5
Reeves, W. Clay: *See—*
Siems, Lee E.; and Reeves, W. Clay,3,466,596.
Reeves, Wilson A.: *See—*
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A.,3,420,700.
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A.,3,420,701.
Sloan, William G.; Moore, Harry B.; Cooper, Albert S., Jr.; and Reeves, Wilson A.,3,480,382.
Ref-Con Corporation: *See—*
Coffer, William E.; Miller, Robert L.; and Shewan, John, 3,441,929.
Reflex Corporation of America: *See—*
Hedgewick, Peter, 3,422,260.
Reflex Corporation of Canada Limited: *See—*
Hedgewick, Peter; and Howell, George E., 3,478,911.
Hedgewick, Peter, 3,482,814.
Hedgewick, Peter; and Howell, George E., 3,485,403.
Stanley, Wallace A., 3,458,245.
Refractory & Insulation Corporation: *See—*
Hornbruch, Raymond E., 3,473,577.
Refrigerating Specialties Company: *See—*
Hansen, Charles C.; Mauer, Kenneth H.; and Kivioja, Olaf E., 3,449,923.
Refrigeration Research, Incorporated: *See—*
Bottum, Edward W.; and Rockwell, Frank H., 3,432,910.
Refrigeration System AB: *See—*
Thoren, Olle G.; and Axelson, Hans A., 3,477,240.
Regalado, Albert, to Burroughs Corporation. Magnetic core counting circuit. 3,438,014, 4-8-69, Cl. 340-174.
Regalia, Emil Louis. Heavy duty truck trailer. 3,467,408, 9-16-69, Cl. 280-34.
Regan, Barrie F. Method of making dentures. 3,431,183, 3-4-69, Cl. 204-4.
Regan, Bernard M., to Baxter Laboratories, Inc. 2-Halo-1,1,3,3-tetrafluoropropanes. 3,431,313, 3-4-69, Cl. 260-653.
Regan, Bernard M., to Baxter Laboratories, Inc. 2,2-Dichloro-1,1,3,3-tetrafluoropropane and method of preparing same. 3,444,249, 5-13-69, Cl. 260-653.
Regan, Bernard M., to Baxter Laboratories, Inc. Benzamidoalkylthiopshudoureas as anesthetic agents. 3,448,197, 6-3-69, Cl. 424-324.
Regan, Bernard M., to Baxter Laboratories, Inc. Phenylcarbamoylethylthiopsludoureas as anesthetic agents. 3,448,198, 6-3-69, Cl. 424-324.
Regan, Bernard M., to Baxter Laboratories, Inc. 2-Bromo-2-chloro-1,1,3,3-tetrafluoropropane. 3,458,584, 7-29-69, Cl. 260-653.
Regan, Bernard M., to Baxter Laboratories, Inc. 2-Bromo-1,1,2,3,3-pentafluoropropane. 3,480,683, 11-25-69, Cl. 260-653.
Regan Forge & Engineering Co.: *See—*
Watkins, Bruce J., 3,445,126.
Watkins, Bruce J., 3,452,815.
Watkins, Bruce J., 3,460,615.
Watkins, Bruce J., 3,485,051.
Regan, John M.: *See—*
Abbott, George F.; Ceonzo, Joseph A.; Isenberg, John F., Jr.; Johnson, Robert A.; and Regan, John M.,3,482,057.
Regan, Malachy J. Emollient applicator for attachment to an electric shaver. 3,477,127, 11-11-69, Cl. 30-41.
Regan, Malchy J. Applicator means for attachment to electric shavers. 3,486,225, 12-30-69, Cl. 30-41.
Regas, Andrew N., to Lockheed Aircraft Corporation. Nut assembly for self-aligning, removable and refusable fasteners. 3,438,418, 4-15-69, Cl. 151-41.73
Regec, John J.: *See—*
Gartner, Stanley J.; Regec, John J.; and Smith, James M.,3,465,867.
Regel, Arthur A., to Dorr-Oliver Incorporated. Rotary drum filter with interior filter panels. 3,485,378, 12-23-69, Cl. 210-393.
Regel, Erik A., to Chemagro Corporation. Alpha-haloalkyl phosphonothioates. 3,463,839, 8-26-69, Cl. 260-958.
Regel, Erik K.: *See—*
Botts, Marion F.; and Regel, Erik K.,3,463,840.
Botts, Marion F.; and Regel, Erik K.,3,485,918.
Regel, Erik K., to Chemagro Corporation. Phenoxythioacetic esters as desiccants. 3,445,221, 5-20-69, Cl. 71-72.
Regel, Erik K.; and Botts, Marion F., to Chemagro Corporation. Allylphosphonodithioates. 3,467,736, 9-16-69, Cl. 260-956.
Regel, Erik K.; and Botts, Marion F., to Chemagro Corporation. Alkoxy vinyl phosphono dithioates as herbicides. 3,481,731, 12-2-69, Cl. 71-87.
Regelin, Donald H.; and Engels, Jakob, to Zimmermann & Jansen G.m.b.H. Back draft valve for blast furnace installation. 3,439,910, 4-22-69, Cl. 266-29.
Regenbrecht, Albert, Jr.: *See—*
Hedler, Robert A.; Larson, John Frederick; and Regenbrecht, Albert, Jr.,3,474,040.
Reggia, Frank, to United States of America, Army. Solid state microwave acoustic delay line and frequency converter. 3,435,250, 3-25-69, Cl. 307-88.3
Reggia, Frank, to United States of America, Army. Nondispersive electrically variable microwave acous- tic delay line comprising a ferrite Faraday rotator coupled to an anisotropic piezoelectric crystal. 3,435,383, 3-25-69, Cl. 333-31.
Regh, Joseph; Silvey, Gene A.; and Gardiner, James R., to International Business Machines Corporation. Method for plating and polishing a silicon planar surface. 3,436,259, 4-1-69, Cl. 117-227.
Regh, Joseph: *See—*
Kren, John G.; Regh, Joseph; and Seto, David K.,3,419,956.
Regie Nationale des Usines Renault: *See—*
Auriol, Jean, 3,430,518.
Bessot, Pierre, 3,424,289.
Boueil, Raymond; and Gardeux, Gerard, 3,431,029.
Boueil, Raymond; and Gardeux, Gerard, 3,431,030.
Boueil, Raymond; and Gardeux, Gerard, 3,441,108.
Boueil, Raymond; and Gardeux, Gerard, 3,441,319.
Bouthors, Pierre; and Colinet, Andre, 3,448,674.
Bouthors, Pierre; and Colinet, Andre, 3,470,949.
Bouthors, Pierre; Lecomte, Alexandre; and Soetaert, Guy, 3,483,769.
Bouthors, Pierre; and Porquet, Christian, 3,486,352.
Boyenval, Bernard; and Labbe, Albert, 3,448,494.

Caron, Georges, 3,431,018.
Caron, Georges, 3,449,012.
Castarede, Armand M., 3,468,295.
Coursault, Roger, 3,479,079.
de Castelet, Gaetan de Coye, 3,448,505.
de Coye de Castelet, Gaetan, 3,439,086.
de Coye de Castelet, Gaetan, 3,449,626.
de Coye de Castelet, Gaetan, 3,483,509.
Decouzon, Georges, 3,457,732.
Delarue, Lucien; and Doucas, Pierre, 3,482,557.
Grancon, Michel, 3,481,653.
Lecomte, Alexandre, 3,449,861.
Lombard, Claude, 3,435,165.
Lombard, Claude-Edmond, 3,443,135.
Magnier, Roger, 3,474,876.
Mala, Alain, 3,465,645.
Moulin, Jean, 3,477,417.
Ousset, Jacques, 3,484,128.
Peras, Lucien, 3,432,651.
Peras, Lucien, 3,450,865.
Prost-Dame, Claude; Ventre, Pierre; and Bouthors, Pierre, 3,449,864.
Soetaert, Guy, 3,485,067.

Regina Corporation, The: *See—*
Meyerhoefer, Carl E., 3,434,304.

Regis, Pierre A. Braking surface for the rims of bicycle wheels. 3,433,327, 3-18-69, Cl. 188-24.

Regitz, William M.: *See—*
Davidson, Evan E.; and Regitz, William M.,3,460,092.
Klibbe, Arthur W.; and Regitz, William M.,3,462,748.

Regitz, William M., to Bell Telephone Laboratories, Incorporated. Pulse delay control circuit. 3,435,438, 3-25-69, Cl. 340-174.

Regitz, William M., to Bell Telephone Laboratories, Incorporated. Pulse driver with linear current rise. 3,436,563, 4-1-69, Cl. 307-270.

Regnaud, Charles W. Means and method of producing cement tile veneer. 3,441,457, 4-29-69, Cl. 156-71.

Regner, Albert: *See—*
Balej, Jan; Paseka, Ivo; Vondrak, Jiri; and Regner, Albert,3,431,193.

Regner, Edward G.; and Lundin, Robert S., to General Time Corporation. High starting torque inductor motor. 3,447,008, 5-27-69, Cl. 310-164.

Regneth, Lorenz: *See—*
Fegley, Charles R.; and Regneth, Lorenz,3,464,548.

Regnie, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel, to Science Union et Cie Societe Francaise de Recherche Medicale. Purine compounds. 3,457,263, 7-22-69, Cl. 260-252.

Regnier, Albert; Kevorkian, Kevork; and Bakka, Raymond, to International Standard Electric Corporation. Telephone line supervision using a transfluxor. 3,482,226, 12-2-69, Cl. 340-174.

Regnier, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel, to Science Union et Cie, Societe Francaise de Recherche Medicale. Di- and triphenylpropyl piperazine pyrimidyl and quinazolinyl compounds. 3,435,036, 3-25-69, Cl. 260-256.4

Rego, Richard Donald: *See—*
Geary, James Edward, Jr.; Harsch, William Edward; Maxwell, John Murdock; and Rego, Richard Donald,3,442,002.

Regunberg, Jerome; and Liepmann, Wolfgang H. Facsimile newspaper transmission system. 3,479,451, 11-18-69, Cl. 178-6.6

Reh, Lothar; Maurer, Roland; Pierson, Walter; and Peinemann, Bodo, to Metallgesellschaft Aktiengesellschaft. Process of controlling the temperature in and improving the performance of endothermic processes carried out in a fluidized bed. 3,449,062, 6-10-69, Cl. 23-1.

Rehacek, Zdenek: *See—*
Paleckova, Frantisek; Hostalek, Zdenek; and Rehacek, Zdenek,3,434,930.

Rehag, Lawrence J., to Logan, Carey and Rehag. Dispensing container cover and spout assembly. 3,463,364, 8-26-69, Cl. 222-480.

Rehberg, Heinrich: *See—*
Sennewald, Kurt; and Rehberg, Heinrich,3,483,222.
Sennewald, Kurt; Erpenbach, Heinz; Rehberg, Heinrich; and Viertel, Gunter,3,476,776.
Sennewald, Kurt; Rehberg, Heinrich; and Lenz, Gunter,3,442,937.

Reher, Bernhard: *See—*
Erler, Heinz; Reher, Bernhard; and Hopp, Hartwig,3,483,483.

Rehfeld, Frederick L. J., to General Motors Corporation. Vacuum operated motor and pump combination. 3,482,766, 12-9-69, Cl. 230-52.

Rehg, Elmer H., to Dohm and Nelke Incorporated, mesne. Boarding machines. 3,455,083, 7-15-69, Cl. 53-74.

Rehm, Carl L., to E-Z Manufacturing Company. Tire repair device. 3,485,712, 12-23-69, Cl. 161-240.

Rehm, Carl Richard: *See—*
Lachman, Leon; and Rehm, Carl Richard,3,443,004.

Rehm, Georg. Electrical device for indicating the mathematical product of two electrical quantities. 3,439,270, 4-15-69, Cl. 324-142.

Rehm, Walter: *See—*
Klaui, Heinrich; Rehm, Walter; and Schlegel, Wolfgang,3,466,362.

Rehman, John L.: *See—*
Kuts, Richard M.; and Rehman, John L.,3,465,863.

Rehmar, Solomon J., to Intrusion Prepakt, Inc. Cast-in-place casings for concrete piles. 3,453,832, 7-8-69, Cl. 61-53.64

Rehmke, William F., to Pacific Products, Inc. Asparagus harvesting machine and method. 3,447,292, 6-3-69, Cl. 56-327.

Rehmke, William F.: *See—*
Meyersahm, Alvin I.; and Rehmke, William F.,3,444,835.

Rehn, Heinz; Papke, Friedrich; and Greger, Paul, to Voigtlander, A.G. Camera with take-up spool. 3,484,053, 12-16-69, Cl. 242-74.

Rehn, Nils G.: *See—*
Emneus, Nils Ingvar Arne; Gelotte, Erik B.; Rehn, Nils G.; and Soderqvist, Bjorn G. F.,3,476,737.

Rehnelt, Kurt; and Voss, Manfred, to Henkel & Cie., G.m.b.H. Laminate, binding solution and process for preparation of laminate. 3,458,465, 7-29-69, Cl. 260-29.4

Rehr, Henry W., to Crown Zellerbach Corporation. Box for receiving and storing layers of cartons. 3,421,655, 1-14-69, Cl. 220-93.

Rehrer, Kenneth Z. Diving device. 3,425,231, 2-4-69, Cl. 61-69.

Rehrig, Houston, to Rehrig Pacific Company. Material handling crate. 3,430,807, 3-4-69, Cl. 220-97.

Rehrig, Houston. Plastic crate with metal stacking ear. 3,445,034, 5-20-69, Cl. 220-97.

Rehrig Pacific Company: *See—*
Rehrig, Houston, 3,430,807.

Reibel, Robert H.: *See—*
Kapilow, Marvin; Martinez, Eugene; and Reibel, Robert H.,3,475,263.

Reiber, Edwin E. Connectors for cable conduits. 3,480,303, 11-25-69, Cl. 285-373.

Reibold, Elmer L. Tubular section for rotatable display units. 3,468,428, 9-23-69, Cl. 211-144.

Reibold, Elmer L. Double channel display holder, panels and frame. 3,482,347, 12-9-69, Cl. 40-143.

Reich, A. & Sons, Inc.: *See—*
Reich, Walter A., 3,425,732.
Reich, Walter A., 3,442,407.

Reich, Adolf F.: *See—*
Merenda, Carmine T.; Reich, Adolf F.; and Gustavson, Sterling T.,3,428,051.

Reich, Bernard; Benanti, Michael A.; and Orloff, William R., to Molecular Electronics, Inc. Method and apparatus for measuring the resistance of an electrical component which may be shunted by a semiconductor device. 3,440,530, 4-22-69, Cl. 324-62.

Reich, Cecil F., to Dow Chemical Company, The. Method of removing copper-containing scale from metal surfaces. 3,458,354, 7-29-69, Cl. 134-3.

Reich, Ernst; and Dettwiler, Werner, to Ciba Limited. N,N'-bis(β-benzophenone)-arylenediamines. 3,449,425, 6-10-69, Cl. 260-570.

Reich, Ernst; and Rickenbacher, Hans Rudolf, to Ciba Limited. 1,5-Bis-(2',4'-dihalo-benzamido)-4-hydroxy(and 4,8- dihydroxy)-anthraquinones. 3,439,003, 4-15-69, Cl. 260-377.

Reich, Francis P.: *See—*
Reich, John J.; and Reich, Francis P.,3,456,056.

Reich, Heinrich; and Angst, Heinz, to Contraves AG. Elastic coupling. 3,482,464, 12-9-69, Cl. 74-470.

Reich, Irving; and Breuer, Hans, to Carter-Wallace, Inc. Aerosol heated shaving lather dispensing package. 3,484,378, 12-16-69, Cl. 252-90.

Reich, Ismar M.; and Cascione, Alexander S., to Coffee Instants, Inc. Coffee stabilization. 3,421,906, 1-14-69, Cl. 99-152.

Reich, John J.; and Reich, Francis P. Method for repelling bees. 3,456,056, 7-15-69, Cl. 424-315.

Reich, Karl M., Maschinenfabrik: *See—*
Reich, Kurt; and Cast, Adolf, 3,471,008.

Reich, Kurt, to Forkardt, Paul, K.G. Self-centering chuck. 3,481,614, 12-2-69, Cl. 279-4.

Reich, Kurt; and Cast, Adolf, to Reich, Karl M., Maschinenfabrik. Nail strip and method of making the same. 3,471,008, 10-7-69, Cl. 206-56.

Reich, Manfred, to Chemische Werke Huls Aktiengesellschaft. Process for the selective hydrogenation of butadiene-(1,3) in a hydrocarbon mixture containing it and a larger quantity of butene-(1). 3,481,999, 12-2-69, Cl. 260-677.

Reich, Melvin F.: *See—*
Block, M Sabel; Sidbury, Melvin D.; and Reich, Melvin F.,3,467,109.

Reich, Murray H.; and Rothwachs, Aaron, to Commercial Solvents Corporation. Process for the preparation of high molecular weight polynitroethylene. 3,445,437, 5-20-69, Cl. 260-80.

Reich, Robert Walter. Transistor pulse generator energizable from AC or DC. 3,443,242, 5-6-69, Cl. 331-71.

Reich, Simon, to General Signal Corporation. Vehicle remote control system. 3,432,654, 3-11-69, Cl. 246-187.

Reich, Walter A., to Reich, A. & Sons, Inc. Gripping head with adjustable pivots for swinging jaws. 3,425,732, 2-4-69, Cl. 294-16.

Reich, Walter A., to Reich, A., & Sons, Inc. Meat handling head for hand trucks. 3,442,407, 5-6-69, Cl. 214-383.

Reich, William A., to General Electric Company. Cutting tool insert. 3,421,196, 1-14-69, Cl. 29-95.
Reich, William E.: *See—*
Borovicka, David A.; Reich, William E.; and Pratt, Ivor,3,475,366.
Reich, Wolfhard: *See—*
Krainer, Helmut; Muller, Reinhard; and Reich, Wolfhard,3,425,380.
Reichard, Edward L.: *See—*
Gurley, Jesse Fred, Jr.; Harp, Emile F.; and Reichard, Edward L.,3,437,276.
Reichardt, Harry J.: *See—*
Abromavage, John C.; and Reichardt, Harry J.,3,436,100.
Abromavage, John C.; and Reichardt, Harry J.,3,442,112.
Abromavage, John C.; and Reichardt, Harry J.,3,464,246.
Reichardt, Manfred: *See—*
Augustin, Johann; Wenger, Joachim; Reichardt, Manfred; and Spiegler, Ewald,3,459,890.
Reichardt, Wolfgang, to Bosch, Robert, G.m.b.H. Fuel injection control system. 3,483,851, 12-16-69, Cl. 123-32.
Reichardt, Wolfgang; Eichler, Dieter; Scholl, Hermann; and Wahl, Josef, to Bosch, Robert, G.m.b.H. Fuel injection control system. 3,463,130, 8-26-69, Cl. 123-32.
Reichardt, Wolfgang: *See—*
Glockler, Otto; and Reichardt, Wolfgang,3,430,616.
Scholl, Hermann; Kadelbach, Volker; and Reichardt, Wolfgang,3,439,564.
Scholl, Hermann; Rabus, Friedrich; Eichler, Dieter; Kadelbach, Volker; Reichardt, Wolfgang; and Schmidt, Peter Jurgen,3,433,101.
Reichart, Elwood C., to Motorola, Inc. Automatic phase control circuit. 3,478,276, 11-11-69, Cl. 331-11.
Reiche, Asmus: *See—*
Hertel, Heinz Wolfgang; and Reiche, Asmus,3,444,989.
Reiche, Erwin W. P. Method of making a square bottom bag. 3,435,736, 4-1-69, Cl. 93-35.
Reichel, Richard A., to International Sorting Systems. Apparatus for crushing and sorting solid particles. 3,424,388, 1-28-69, Cl. 241-79.1
Reichel, Richard Alan. Noise generator for shaking loose packed material. 3,467,363, 9-16-69, Cl. 259-36.
Reichel, Richard F.: *See—*
Saletzki, Jacob S.; and Reichel, Richard F.,3,453,993.
Reichel, Sigrid: *See—*
Muller, Richard; Reichel, Sigrid; and Dathe, Christian,3,465,012.
Reichelderfer, Charles A., to Dunham-Bush, Inc. Hot air generator. 3,481,321, 12-2-69, Cl. 126-99.
Reicheneder, Franz; Dury, Karl, deceased (by Winter, Franz, representative of heir); and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pyridazone derivatives containing the radical of the half-ester of a dicarboxylic amide. 3,471,493, 10-7-69, Cl. 260-250.
Reicheneder, Franz; and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pyridazone derivatives. 3,483,201, 12-9-69, Cl. 260-250.
Reichensperger, Guenter. Floatable switches. 3,483,341, 12-9-69, Cl. 200-84.
Reichenstein, Wilfred R., to Fairfield Engineering Company, The. Automatic sample collectors. 3,424,009, 1-28-69, Cl. 73-424.
Reichert, Charles F. Duplicating device for a lathe. 3,429,209, 2-25-69, Cl. 82-14.
Reichert, Donald G.: *See—*
Neal, Morris P.; Reichert, Donald G.; and Fradenburgh, John,3,482,489.
Reichert, Ernest D.: *See—*
Fisher, Robert E.; Kofman, Rijkent W.; Reichert, Ernest D.; and Visser, Reinold H.,3,432,916.
Reichert, Ludwig; and Heinlein, Werner, to Bosch, Robert, GmbH. Fluid pressure actuated diaphragm switch. 3,465,112, 9-2-69, Cl. 200-83.
Reichert, Martin: *See—*
Friz, Hans; Neumayr, Franz; Reichert, Martin; Teltschik, Walter; and Wagner, Ulrich,3,452,114.
Reichert, Otto; Heuer, Kurt; Grotjahn, Heinz; and Wendlandt, Hans George, to American Enka Corporation. Process for producing artificial staple fibers. 3,420,814, 1-7-69, Cl. 264-197.
Reichert, Rudolf: *See—*
Kramer, Manfred; Mayer, Siegfried; Reichert, Rudolf; Rose, Klaus; and Zirps, Wilhelm,3,425,593.
Reichhold Chemicals Inc.: *See—*
Bailey, Philip S.; and Chang, Yun Ger, 3,427,341.
Becker, Wilhelm, 3,434,985.
Bernardi, Eugene L.; and Krysiak, Henry A., 3,479,952.
Chang, Yun G.; and Bailey, Philip S., 3,479,372.
Chang, Yun G., 3,480,648.
Dalibor, Horst, 3,459,736.
Dalibor, Horst; and Kiessling, Hans-Joachim, 3,474,076.
Davis, Bernard J.; and Ranson, Wesley J., 3,427,275.
Davis, Bernard J.; and Rosetti, Larry B., 3,431,310.
Davis, Bernard J., 3,467,632.
Forster, Wolfgang C., 3,470,118.
Miegel, Herbert E., 3,482,948.
Odom, James J.; Shumaker, Thomas P.; and Bloomquist, Paul R., 3,484,837.
Singer, Hermann; Delius, Hermann; and Kuhr, Johann, 3,466,814.
Reichhold Chemie Aktiengesellschaft: *See—*
Guldenpfennig, Rolf, 3,481,890.
Reichl, Karl Johann: *See—*
Graff, Roderich; Reichl, Karl Johann; Butz, Josef; and Pausch, Karl,3,477,894.
Reichle, Alfred: *See—*
Carl, Wolfgang; Wendel, Martin; and Reichle, Alfred,3,424,609.
Reichle, Alfred; Wandel, Martin; and Borger, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Pyrolysis and reaction chamber for gas and chromatography. 3,421,857, 1-14-69, Cl. 23-253.
Kubitzek, Harry; Unger, Otto; Nawrath, Gunter; Reichle, Alfred; and Nischk, Gunther,3,477,899.
Rellensmann, Wolfgang; Von Falkai, Bela; Reichle, Alfred; and Schnell, Hermann,3,454,526.
Reichling, Charles A., to Sperry Rand Corporation. Power transmission. 3,455,245, 7-15-69, Cl. 103-5.
Reichold,Ernst; and Bockmann, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of high molecular weight cross-linked polyamides. 3,458,481, 7-29-69, Cl. 260-78.
Reichold, Ernst: *See—*
Freytag, Helmut; Reichold, Ernst; Bayer, Otto; Bockmann, Walter; and Wagner, Jochim,3,425,985.
Reichrath, Werner: *See—*
Thoma, Jozef A.; Gielkens, Johannes W.; and Reichrath, Werner,3,476,664.
Reichter, Heinz: *See—*
Rothmann, Hans; Keil, Werner; and Reichter, Heinz,3,444,060.
Reick, Kenneth R.: *See—*
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R.,3,424,529.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R.,3,461,788.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R.,3,476,479.
Reid, Albert C., to Sinclair Research, Inc., mesne. Method for determining magnetic tape correlation. 3,426,270, 2-4-69, Cl. 324-46.
Reid, Albert C., to Sinclair Research, Inc. Recording technique for eliminating periodic noise from seismic signals. 3,447,126, 5-27-69, Cl. 340-15.5
Reid, Albert R.: *See—*
Bishop, Robert G.; Desmarais, Armand J.; and Reid, Albert R.,3,455,714.
Desmarais, Armand J.; and Reid, Albert R.,3,435,027.
Reid, Alexander Mailer; Parry, Richard John; and Burrows, Michael Eastoe, to Pilkington Brothers Limited. Optical glass. 3,480,453, 11-25-69, Cl. 106-47.
Reid, Allen F.: *See—*
Halff, Albert H.; and Reid, Allen F.,3,420,637.
Reid, Chester L., to Clark Equipment Company. Slag hauler liner. 3,463,471, 8-26-69, Cl. 263-45.
Reid, Donald G.; and Pfaffle, Merle L. Tire preconditioner. 3,480,068, 11-25-69, Cl. 157-13.
Reid, Edward A., Jr.: *See—*
Darrow, Richard G.; Morse, William F.; and Reid, Edward A., Jr.,3,470,862.
Reid, Edward J., to Hunt Foods and Industries, Inc. Pan and grill fry shortening. 3,443,966, 5-13-69, Cl. 99-118.
Reid, Edwin J., Jr.: *See—*
Berlin, A Samuel; Little, Vincent C.; Leadore, Toney E.; and Reid, Edwin J., Jr.,3,434,421.
Reid, Francis R., to Pillsbury Company, The. Biscuit cutting and packing apparatus. 3,427,783, 2-18-69, Cl. 53-123.
Reid, Francis R.; Draper, James E.; and Jones, Selwyn, to Pillsbury Company, The. Dough packing apparatus. 3,458,970, 8-5-69, Cl. 53-159.
Reid, Gilbert R.; and Schultz, Arthur P., to Sperry Rand Corporation. Method for making a memory plane. 3,448,514, 6-10-69, Cl. 29-604.
Reid, Guy T.: *See—*
Groover, Edwin F.; Reid, Guy T.; Wood, John H.; Pharr, Roger H.; and Mize, Charles A.,3,474,490.
Reid, Harry, Jr.; and Currie, James R., to United States of America, National Aeronautics and Space Administration. Pulse width inverter. 3,487,288, 12-30-69, Cl. 321-9.
Reid, Hermine S.: *See—*
Porter, Gilbert E., 3,487,357.
Reid, Hugh T. Gravity-flow calciner and process for calcining carbonaceous solids. 3,433,713, 3-18-69, Cl. 201-34.
Reid, James A., to Phillips Petroleum Company. Biocidal washing composition and method. 3,433,578, 3-18-69, Cl. 21-53.
Reid, James Angus Wilson: *See—*
Le Count, David James; and Reid, James Angus Wilson,3,463,825.

Reid, Jerome L.: *See—*
Carlson, David P.; and Reid, Jerome L.,3,427,158.
Carlson, David P.; and Reid, Jerome L.,3,455,685.
Reid, John B., to Philco-Ford Corporation. Laundry apparatus. 3,466,901, 9-16-69, Cl. 68-18.
Reid, John B.: *See—*
Hubbard, James R.; and Reid, John B.,3,464,239.
Reid, John C.; Doan, Robert B.; and Taylor, Robert C., to Atlantic Richfield Company. Aqueous slurries of triethanolamine salts of linear alkylbenzene sulfonic acids. 3,463,736, 8-26-69, Cl. 252-152.
Reid, Jon B.; and Pearson, David L., to Shell Oil Company. Purification of N-methyl2-chloroacetoacetamide and N,N-dimethyl-2-chloroacetoacetoacetamide. 3,427,352, 2-11-69, Cl. 260-561.
Reid, Joyce Pruitt. Toilet brush holder. 3,450,452, 6-17-69, Cl. 312-206.
Reid, Larry R., deceased0 (by Reid, Richard D.; administrator). Marine transmission. 3,478,622, 11-18-69, Cl. 74-792.
Reid, Laurie M.; Ferguson, James V.; and McDurmont, Walter R., to Anderson Electric Corporation. Packaging apparatus. 3,466,844, 9-16-69, Cl. 53-182.
Reid, Lee R.; and Berkshire, Robert H., to Texas Instruments, Incorporated. Wide band pellicle beam splitter for interferometry. 3,438,694, 4-15-69, Cl. 350-171.
Reid, Luther J., Jr.: *See—*
Ciric, Julius; and Reid, Luther J., Jr.,3,433,589.
Reid Meredith, Inc.: *See—*
Frishman, Daniel; and Clyman, George R., 3,447,343.
Reid, Norman C., to Pako Corporation. Frame mount for a film transparency. 3,466,780, 9-16-69, Cl. 40-158.
Reid, Orland B.; and Feuling, Bert G., to Singer Company, The. Hemming and button sewing modules. 3,482,540, 12-9-69, Cl. 112-265.
Reid, Orland B.: *See—*
Haefele, Henry A.; and Reid, Orland B.,3,433,187.
Reid, Philip L., to Beverage-Air Company. Liquid metering dispenser with reciprocable piston and rotatable control valve. 3,439,835, 4-22-69, Cl. 222-21.
Reid, Philip L.; Kallas, William E.; and Wilson, Claude A., to Beverage-Air Company. Condensation removing means for refrigerated cabinets. 3,462,966, 8-26-69, Cl. 62-248.
Reid, Richard D.: *See—*
Reid, Larry R.,3,478,622.
Reid, Samuel C.: *See—*
Myers, Ronald G.; Reid, Samuel C.; and Barton, David M.,3,436,756.
Reid, Thornton H.: *See—*
Tsao, George T.; Reid, Thornton H.; Hiller, Fred L.; and Hubbard, Lawrence H.,3,432,345.
Reid, William B.: *See—*
Porter, Gilbert E., 3,487,357.
Reid, William G.; and Petron, Boris W., to Robinson, E. S. & A. (Canada) Limited. Heat activated peelable resealable labels for closures. 3,428,516, 2-18-69, Cl. 161-113.
Reid-Meridith, Inc.: *See—*
Frishman, Daniel; and Caruso, Michael G., 3,467,110.
Reidel, Berthold, to International Standard Electric Corporation. Counting coder. 3,441,723, 4-29-69, Cl. 235-154.
Reider, Donald P.: *See—*
Moran, Edward F.; and Reider, Donald P.,3,467,704.
Reider, George Sylvester, Jr.; and Seitz, Edward Lamonte, Jr., to AMP Incorporated. Electrical connector for printed circuit board. 3,428,934, 2-18-69, Cl. 339-17.
Reidhammer, Ludwig, G.m.b.H.: *See—*
Buchkremer, Rudolf, 3,476,369.
Reier, Richard: *See—*
Bester, Werner; Butzke, Fritz; Hennig, Fritz; Voelcker, Sven; Reier, Richard; and Rekewitz, Rudolf,3,450,836.
Reif, Henry E.: *See—*
Surrena, Harland J.; Kirby, Aubrey M., Jr.; and Reif, Henry E.,3,425,932.
Reif, Robert B.: *See—*
McGraw, Leslie D.; and Reif, Robert B.,3,485,654.
Reif, Werner: *See—*
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Sarnecki, Wilhelm,3,449,438.
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Pommer, Horst,3,471,569.
Reif, Werner; Haug, Peter; Freyschlag, Herwig; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separating tertiary phosphines from olefins. 3,485,859, 12-23-69, Cl. 260-410.
Reifenberg, Gerald H.: *See—*
Considine, William J.; and Reifenberg, Gerald H.,3,454,609.
Considine, William J.; and Reifenberg, Gerald H.,3,471,538.
Considine, William J.; and Reifenberg, Gerald H.,3,475,474.
Reifenberg, Joseph H., to Westinghouse Electric Corporation. Domestic dishwasher and control. 3,440,399, 4-22-69, Cl. 219-334.
Reifenberg, Joseph H., to Westinghouse Electric Corporation. Appliance swing-down door counterbalance arrangement. 3,453,779, 7-8-69, Cl. 49-386.
Reifenschweiler, Otto: *See—*
Frohner, Klaus; Horster, Horst; Lydtin, Hans Jurgen; and Reifenschweiler, Otto,3,479,550.
Reiff, Albert T., Jr.: *See—*
Carlin, William F., III.; Blatter, Albert; and Reiff, Albert T., Jr.,3,443,428.
Reiff, Almer A.: *See—*
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A.,3,421,267.
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A.,3,421,274.
Reiff, Donald H., to Stearns Electric Corporation. Self-adjusting clutch or brake. 3,458,022, 7-29-69, Cl. 192-84.
Reiff, Donald H., to Stearns Electric Corporation. Self-adjusting clutch or brake. 3,485,330, 12-23-69, Cl. 192-84.
Reiff, Fritz: *See—*
Baron, Karl Heinrich; Klink, Rainer; and Reiff, Fritz,3,448,190.
Reiff, Lewis D., Jr.: *See—*
Brown, Robert A.; and Reiff, Lewis D., Jr.,3,473,390.
Reifman, Mark Petrovich; Bondarev, Nikolai Nikolaevich; and Gendelman, Lev Simkhovich. Transistorized electromagnetic drive for an electric clock. 3,457,483, 7-22-69, Cl. 318-128.
Reifschneider, Walter; and Kelyman, Jacqueline S., to Dow Chemical Company, The. 4-Thiocyanoaryl methyl carbamates. 3,483,244, 12-9-69, Cl. 260-454.
Reigelmayer, Peter; and Turk, Helmut, to Dynamit Nobel Aktiengesellschaft. Method and apparatus for deep-drawing sheet metal plates. 3,451,239, 6-24-69, Cl. 72-56.
Reighart, June H. Forced air roof-cleaning skewback channel and frame. 3,420,213, 1-7-69, Cl. 122-390.
Reighart, June H., to Kohn, Howard M. Cooling units for fume hood on basic oxygen steelmaking furnace. 3,445,101, 5-20-69, Cl. 266-16.
Reighter, David H., to I-T-E Imperial Corporation. Method of molding thermosetting plastic articles. 3,474,161, 10-21-69, Cl. 264-87.
Reighter, David H.; and Stratton, Robert L., to I-T-E Imperial Corporation, mesne. Method for producing intricately shaped electrical insulation. 3,472,925, 10-14-69, Cl. 264-236.
Reihman, Richard F., to Bethlehem Steel Corporation. Continuous casting apparatus having independent transverse and longitudinal mold surface movement. 3,421,572, 1-14-69, Cl. 164-273.
Reihman, Richard F.: *See—*
Marsilio, Joseph V.; and Reihman, Richard F.,3,479,486.
Reihs, Leonhard: *See—*
Kuhlkamp, Alfred; and Reihs, Leonhard,3,483,171.
Reijnders, Joseph Lodenwijk Maria, to U.S. Philips Corporation. Magnetic flux measuring device. 3,453,399, 7-1-69, Cl. 179-100.2
Reike, Siegfried: *See—*
Meissner, Johannes; Bockau, Gustav; and Reike, Siegfried,3,437,382.
Reikes, Alex E. Pallet bin hardware. 3,434,616, 3-25-69, Cl. 217-69.
Reil, Wilhelm; and Schwarzwalder, Werner, to Habra-Werk Wilh. F. Ott. Apparatus for manipulating parallelepiped containers. 3,438,176, 4-15-69, Cl. 53-379.
Reiland, Frank F., to Gateway Erectors, Inc. Method of erection of concrete reinforcing structures. 3,473,285, 10-21-69, Cl. 52-741.
Reiley, Bertrand Miles, to Youngstown Sheet and Tube Company, The. Method and apparatus for handling and conveying a relatively long workpiece. 3,483,959, 12-16-69, Cl. 198-1.
Reiling, Thomas L. Non-curling gummed coated paper, method and composition for making the same. 3,425,968, 2-4-69, Cl. 260-8.
Reiling, Victor G., to Duriron Company, Inc., The. Processing of plastic materials. 3,432,511, 3-11-69, Cl. 260-92.1
Reiling, Victor G. Temperature stable seal. 3,443,817, 5-13-69, Cl. 277-153.
Reille, Paul, to Societe le Carbone-Lorraine. Brushes for electric motors. 3,467,846, 9-16-69, Cl. 310-248.
Reilly, Bertram B. Sewage treatment process and apparatus. 3,485,749, 12-23-69, Cl. 210-7.
Reilly, Donald C., to Westinghouse Air Brake Company. Variable trough support. 3,443,678, 5-13-69, Cl. 198-191.
Reilly, Donald C., to Westinghouse Air Brake Company. Automatic internal tram control. 3,456,982, 7-22-69, Cl. 299-11.
Reilly, Frank Ward; and Bozeman, Hoyt William, to Sherman & Reilly, Inc. Versatile sheave block. 3,479,014, 11-18-69, Cl. 254-193.
Reilly, James J., Jr.: *See—*
Tuthill, Edwin J.; and Reilly, James J., Jr.,3,482,376.
Reilly, James W.; and Sze, Morgan C., to Lummus Company, The. Hydrogenation of benzene to cyclohexane. 3,450,784, 6-17-69, Cl. 260-667.
Reilly, John E.: *See—*
Bates, Leonard E., 3,433,437.
Reilly, John P.: *See—*
Shema, Bernard F.; Reilly, John P.; and Kubasko, Paul E.,3,426,134.

Reilly, Johne E.: *See—*
Bates, Leonard E., 3,444,778.
Reilly, Patrick J., to Goodyear Tire & Rubber Company, The. Radiation induced grafting of styrene/butadiene onto a polyrethylene terephthalate substrate. 3,439,063, 4-15-69, Cl. 260-873.
Reilly, Richard J.; and Sher, Neil C., to Honeywell Inc. Control systems. 3,481,351, 12-2-69, Cl. 137-81.5
Reilly, Thomas Joseph, to American Cyanamid Company. Pressure venting panel assembly. 3,453,777, 7-8-69, Cl. 49-141.
Reilly, William E.: *See—*
Hauel, Anna P.; Hill, James S.; and Reilly, William E.,3,437,525.
Reilly, William J. Bag holder. 3,468,505, 9-23-69, Cl. 248-101.
Reim, Thomas E.: *See—*
Stone, Leonard R.; Reim, Thomas E.; Muskovac, Nicholas G.; and Cook, James E.,3,431,415.
Reimann, George A.: *See—*
McDonald Robert E.; Reimann, George A.; and Patterson, Fred H.,3,429,158.
Reimann, Hans, to Schering Corporation. Steroidal [16,17-c]-[1',2',5']oxadiazoles and methods for their manufacture. 3,437,658, 4-8-69, Cl. 260-239.55
Reimann, Hans; and Hershberg, Emanuel B., to Schering Corporation. Process for preparing 16α-alkyl-17-bromo- pregnanes. 3,422,123, 1-14-69, Cl. 260-397.4
Reimann, Hans; and Tabachnick, Irving I. A., to Schering Corporation. Treating allergies with steroids of the pregnane series. 3,463,852, 8-26-69, Cl. 424-243.
Reimann, Hubertus: *See—*
Hilbig, Erich; Ehrentraut, Heinz; Reimann, Hubertus; and Schutze, Siegfried,3,472,141.
Reimann, Hubertus; and Hesse, Christian, to Veb Pentacon Dresden Kamera- und Kinowerke. Apparatus for electronic exposure control. 3,450,015, 6-17-69, Cl. 95-10.
Reimann, Robert L., to General Time Corporation. Electric clock alarm system. 3,440,814, 4-29-69, Cl. 58-38.
Reimann, William G., to Litton Systems, Inc. Weldable printed circuit board. 3,469,019, 9-23-69, Cl. 174-68.5
Reimer, Alexander Claude: *See—*
Knight, Colin Sutherland; Reimer, Alexander Claude; Weaver, Victor Charles; and Brook, Brian Neville,3,446,794.
Reimer, Arnold E.: *See—*
Bertelsen, Bruce I.; and Reimer, Arnold E.,3,476,561.
Reimer, Carl; and Porsch, Hans, to Siemens Aktiengesellschaft. Method of producing slot windings for electrical machines. 3,431,639, 3-11-69, Cl. 29-605.
Reimer, Leon G., to Westinghouse Electric Corporation. Grinder and elevator coupled through paddle wheel-equipped conduit. 3,485,455, 12-23-69, Cl. 241-186.
Reimer, Victor W.: *See—*
Killbery, William J.; and Reimer, Victor W.,3,457,709.
Reimer, Victor W., to Killbery Industries, Ltd. Pick-up finger and reel batt construction. 3,468,109, 9-23-69, Cl. 56-220.
Reimer, William A., to Automatic Electric Laboratories, Inc. Multiplanar electrical connection techniques. 3,432,796, 3-11-69, Cl. 339-18.
Reimer, William A., to Automatic Electric Laboratories, Inc. Reusable data planes for mechanically alterable memory systems. 3,466,629, 9-9-69, Cl. 340-174.
Reimer, William A.: *See—*
Krylow, Konstanty E.; and Reimer, William A.,3,474,423.
Sidor, Edward F.; and Reimer, William A.,3,480,893.
Reimers, James L., to FMC Corporation. Nonshock container handling apparatus. 3,434,582, 3-25-69, Cl. 198-31.
Reimers, James L., to FMC Corporation. Hydrostatic cooker conveyor. 3,452,858, 7-1-69, Cl. 198-151.
Reimers-Getriebe A.G.: *See—*
Karig, Erhardt; and Kirchner, Herbert, 3,426,624.
Rattunde, Manfred, 3,451,283.
Steuer, Herbert, 3,429,193.
Steuer, Herbert, 3,431,724.
Reimlinger, Hans K.; De Ruiter, Ernest H.; and Kruerke, Ulrich K., to Union Carbide Corporation. Addition reactions of butadiene catalyzed by copper (I) zeolites. 3,444,253, 5-13-69, Cl. 260-666.
Reimschuessel, Herbert K.; and Pascale, John V., to Allied Chemical Corporation. Derivatives of epsilon-caprolactam. 3,422,093, 1-14-69, Cl. 260-239.3
Reimus, Richard G.; and Saporito, Anthony, to Struthers Scientific and International Corporation. Concentration process. 3,432,308, 3-11-69, Cl. 99-77.
Reimus, Richard G.; and Saporito, Anthony, to Struthers Patent Corporation, mesne. Concentration process. 3,449,129, 6-10-69, Cl. 99-71.
Reimus, Richard G.; and Saporito, Anthony, to Struthers Scientific and International Corporation. Beverage apparatus. 3,474,723, 10-28-69, Cl. 99-236.
Rein, Arnold Robert: *See—*
Kaiser, Edward William; Rein, Arnold Robert; and Wahler, Richard Otto,3,481,809.
Rein, Arnold Robert, to American Can Company. Method of raw edge protection. 3,432,375, 3-11-69, Cl. 156-202.
Rein, Charles R.: *See—*
Lokey, Burke P.; and Rein, Charles R.,3,433,135.
Rein, Walter: *See—*
Siggel, Erhard; and Rein, Walter,3,429,854.
Siggel, Erhard; and Rein, Walter,3,441,468.
Siggel, Erhard; and Rein, Walter,3,470,114.
Reinagel, Frederick G., to Sierra Research Corporation. Tacan digital bearing indicator system. 3,454,948, 7-8-69, Cl. 343-106.
Reinagel, Frederick G.: *See—*
Lennon, William T., Jr.; and Reinagel, Frederick G.,3,487,407.
Reinarts, Robert B. Auxiliary cab for pickup truck. 3,485,522, 12-23-69, Cl. 296-24.
Reinbold, Emmett B., to General Tire & Rubber Company, The. Tread end cement for synthetic tire treads. 3,421,565, 1-14-69, Cl. 152-330.
Reincke, Joachim: *See—*
Schneider, Walter; Reincke, Joachim; Blumenthal, Reinhard; Tschatzki, Lothar; and Kagelmann, Manfred,3,470,963.
Reindl, Eugen; and Rummert, Gunter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing amido phosphoric acid esters. 3,471,593, 10-7-69, Cl. 260-980.
Reinecke, Erich, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Free wheel clutch. 3,465,858, 9-9-69, Cl. 192-45.1
Reinecke, Gerd: *See—*
Ellegast, Konrad; and Reinecke, Gerd,3,422,036.
Reinecke, Gunter: *See—*
Bongartz, Hans; and Reinecke, Gunter,3,452,515.
Reinecke, Marvin E., to Phillips Petroleum Company. Mass flowmeter. 3,473,377, 10-21-69, Cl. 73-194.
Reinecke, Paul W.; Van Sipe, Ronald L.; Dowd, Walter W.; and Liske, Donald O., to National Gypsum Company. Apparatus for reverse air cleaning of dust collectors. 3,430,419, 3-4-69, Cl. 55-302.
Reinecker, Walter J.; and Westergard, David J. Feeding mechanism. 3,478,793, 11-18-69, Cl. 146-70.1
Reiner, Alberto, 1/2 to Fischetti, Ignazio. 4-Hydroxy-1,3-benzenedicarboxylates of 3- (4-amino-2-methyl-5-pyrimidinylmethyl-5- (2-hydroxyethyl)-4-methylthiazoline. 3,449,345, 6-10-69, Cl. 260-256.6
Reiner, Ernst Kommanditgesellschaft Feinmechanik und Apparatebau: *See—*
Jung, Heinz, 3,482,512.
Reiner Industries, Inc.: *See—*
Wright, George H., 3,431,632.
Reiner, Kenneth. Hair rollers. 3,477,449, 11-11-69, Cl. 132-40.
Reiners, Franz, to Monforts, A., Maschinenfabrik. Apparatus for compacting fibrous webs. 3,431,608, 3-11-69, Cl. 26-18.6
Reiners, Fritz: *See—*
Zimmermann, Rolf; Busch, Wolfram Ernst; and Reiners, Fritz,3,470,094.
Reiners, Walter: *See—*
Furst, Stefan, 3,447,707.
Furst, Stefan, 3,460,689.
Furst, Stefan, 3,468,407.
Kupper, Wilhelm, 3,441,230.
Kupper, Wilhelm, 3,464,640.
Raasch, Hans, 3,477,559.
Reinert, Andrew J.: *See—*
Goodhue, Lyle D.; and Reinert, Andrew J.,3,474,177.
Reinert, Andrew J.; Blackwell, Jennings P.; and Cantrel, Kenneth E., to Phillips Petroleum Company. Processes of using sulfonate salts as bird repellents. 3,474,173, 10-21-69, Cl. 424-315.
Reinert, Andrew J.; and Cantrel, Kenneth E., to Phillips Petroleum Company. Process of using hydrazones as bird repellents. 3,474,175, 10-21-69, Cl. 424-327.
Reinert, Andrew J.; Cantrel, Kenneth E.; and Cobb, Raymond L., to Phillips Petroleum Company. 2,2-Bis(chloromethyl)-1,3-propanediol cyclic sulfite as a bird management agent. 3,475,539, 10-28-69, Cl. 424-276.
Reinert, Andrew J.; and Williams, Ralph P., to Phillips Petroleum Company. Compositions and methods for controlling birds. 3,433,873, 3-18-69, Cl. 424-263.
Reinert, Owen E., to Sperry Rand Corporation. Generator control circuit having means for rapid voltage build-up. 3,470,456, 9-30-69, Cl. 322-32.
Reinforced Plastic Container Corporation: *See—*
Wilkins, William B., 3,434,567.
Reingold, Gordon A., to Bell Telephone Laboratories, Incorporated. Rotary impact burrowing device. 3,480,092, 11-25-69, Cl. 175-19.
Reinhadt, Robert M.; and Bruno, Joseph S., to United States of America, Agriculture. Process for producing wrinkle resistant cellulosic textile materials by catalysis with hydrogen halide gas. 3,450,485, 6-17-69, Cl. 8-116.3
Reinhall, Rolf B., to Defibrator Aktiebolag. Apparatus for use in the production of pulp from lignocellulose containing material. 3,471,366, 10-7-69, Cl. 162-237.

Reinhall, Rolf Bertil: *See—*
Asplund, Arne Johan Arthur; and Reinhall, Rolf Bertil,3,446,699.
Reinhard, Donald L., to General Electric Company. Polyamide amide-acid coating solutions containing a silicone, method of using said solutions and surfaces coated therewith. 3,440,204, 4-22-69, Cl. 260-33.4
Reinhard, George C.; and O'Mara, Michel W. Low temperature electroless plating. 3,441,428, 4-29-69, Cl. 117-47.
Reinhard, Hans; Hoelscher, Friedrich; and Dotzauer, Bernhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of vinylidene chloride polymer coatings on flat substrates based on cellulose. 3,423,232, 1-21-69, Cl. 117-76.
Reinhard, Russell R.: *See—*
Arkell, Alfred; Reinhard, Russell R.; Heisler, Robert Y.; and Larson, Lewis P.,3,454,369.
Reinhardt, Alfons. Abutment device for a supporting table. 3,483,903, 12-16-69, Cl. 143-168.
Reinhardt, Anthony D.: *See—*
Orr, Howard S.; and Reinhardt, Anthony D.,3,422,656.
Reinhardt, Eli W.; and Morris, Henry E. Peanut harvesting machine. 3,420,047, 1-7-69, Cl. 56-366.
Reinhardt, Hans: *See—*
Rydberg, Helge Jan Arnold Molndal; and Reinhardt, Hans,3,442,445.
Reinhardt, Heinz F., du Pont de Nemours, E. I., and Company. 1,3-Cyclic acetal-2-yl substituted alkanals, alkanols and esters. 3,431,280, 3-4-69, Cl. 260-340.9
Reinhardt, Heinz F., to Du Pont de Nemours, E. I., and Company. Salicylate stabilized fluoro-polymers. 3,438,934, 4-15-69, Cl. 260-45.75
Reinhardt, Heinz F., to Du Pont de Nemours, E. I., and Company. Coating compositions containing poly-unsaturated bis-1,3-dioxolanes. 3,441,423, 4-29-69, Cl. 106-287.
Reinhardt, Helmut: *See—*
Ratzsch, Manfred; Grundmann, Horst; Kilian, Rolf; and Reinhardt, Helmut,3,431,250.
Schrader, Richard; Grunwoldt, Wilfried; Hennek, Hubert; Kneschke, Gotz; and Reinhardt, Helmut,3,464,790.
Reinhardt, Helmut; and Nauroth, Peter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for producing finely-divided precipitated silica. 3,433,593, 3-18-69, Cl. 23-182.
Reinhardt, Helmut; Nauroth, Peter; and Achenbach, Karl, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for producing finely-divided, precipitated silicates and double silicates. 3,473,890, 10-21-69, Cl. 23-110.
Reinhardt, Helmut; Nauroth, Peter; and Achenbach, Karl. Process for producing finely-divided precipitated silicon dioxide. 3,480,390, 11-25-69, Cl. 23-182.
Reinhardt, Karl: *See—*
Bruno, Gerald A.; Haney, Thomas A.; Numerof, Paul; and Reinhardt, Karl,3,440,423.
Reinhardt, Paul W.: *See—*
Kimble, Harry E.; and Reinhardt, Paul W.,3,478,460.
Reinhardt, Peter, to VEB Druckmaschinenwerk Planeta. Sheet gripping device. 3,447,800, 6-3-69, Cl. 271-51.
Reinhart, Franz K.: *See—*
Nelson, Donald F.; and Reinhart, Franz K.,3,462,211.
Reinhart, Norman E.: *See—*
Ruppel, Donald B.; and Reinhart, Norman E.,3,487,421.
Reinhart, Richard D.; and Stephenson, Robert W., to General Mills, Inc. Method for extrusion cooking of food products. 3,458,321, 7-29-69, Cl. 99-80.
Reinhart, Robert R., to Quaker Oats Company, The. Method for shaping a cereal product. 3,462,277, 8-19-69, Cl. 99-81.
Reinhart, Thomas J., to Minnesota Mining and Manufacturing Company. Color changeable embossable label tape. 3,468,744, 9-23-69, Cl. 161-6.
Reinheckel, Heinz; and Jahnke, Dietrich, to Deutsche Akademie der Wissenschaften zu Berlin. Process for making aryl alkyl sulfoxides from alkyl aluminum halides and aryl sulfonic acid halides. 3,440,286, 4-22-69, Cl. 260-607.
Reinhold, Donald F.: *See—*
Carey, Daniel J.; Gal, George; Sletzinger, Meyer; and Reinhold, Donald F.,3,471,514.
Reinhold, Donald F.; Gaines, Walter A.; and Sletzinger, Meyer, to Merck & Co., Inc. Resolution of racemic chemical compounds. 3,480,670, 11-25-69, Cl. 260-559.
Firestone, Raymond A.; Reinhold, Donald F.; and Sletzinger, Meyer,3,466,315.
Gaines, Walter A.; and Reinhold, Donald F.,3,448,098.
Gaines, Walter A.; Reinhold, Donald F.; and Sletzinger, Meyer,3,483,220.
Reinhold, Earl R., to Amchem Products Inc. Metal coating process. 3,468,724, 9-23-69, Cl. 148-6.15
Reinhold, Richard H., to Layne-New York Company, Inc. Mine water barrier. 3,469,405, 9-30-69, Cl. 61-35.
Reinicke, Robert H., to North American Rockwell Corporation. Magnetically operated multi-valve assembly. 3,443,585, 5-13-69, Cl. 137-595.
Reinicke, Robert H.; and Mayfield, William B., to North American Rockwell Corporation. Magnetically interlinked multi-valve assembly. 3,472,277, 10-14-69, Cl. 137-595.
Reinig, Harry, to Bell Telephone Laboratories, Incorporated. Apparatus for controlling the establishment of call connections in a distributed line concentrator system. 3,433,901, 3-18-69, Cl. 179-18.
Reiniger, Friedrich, to U.S. Philips Corporation, mesne. Holding for film magazines of varying sizes in an X-ray apparatus. 3,457,406, 7-22-69, Cl. 250-66.
Reinitz, Karl: *See—*
Schuster, Marvin A.; List, William F.; and Reinitz, Karl,3,448,344.
Reinitz, Willard O., to Railroad Accessories Corporation. Railway signal apparatus. 3,444,512, 5-13-69, Cl. 340-47.
Reinke, Friedhelm; and Stengel, Edgar, to AEG-Elotherm G.m.b.H. Inductive heating apparatus. 3,441,703, 4-29-69, Cl. 219-10.69
Reinke, Friedhelm: *See—*
Seulen, erhard; Reinke, Friedhelm; Frisch, Karl W.; and Oertel, Fritz,3,483,346.
Seulen, Gerhard; and Reinke, Friedhelm,3,472,990.
Seulen, Gerhard; and Reinke, Friedhelm,3,472,991.
Seulen, Gerhard; Reinke, Friedhelm; and Stengel, Edgar,3,441,701.
Seulen, Gerhard; Reinke, Friedhelm; and Kuhlbars, Hermann,3,472,988.
Reinke, George W., to Screen Printing Systems, Inc. Printing screen and method of making same. 3,482,300, 12-9-69, Cl. 29-160.
Reinke, Herbert J. Rectifier and controller including triac switch. 3,421,063, 1-7-69, Cl. 318-203.
Reinke, John F.; Schlicke, Heinz M.; and Blomdahl, Floyd A., to Allen-Bradley Company. Solderless mounting filter connection. 3,435,387, 3-25-69, Cl. 333-79.
Reinke, Robert F., to Honeywell Inc. Variable heat conductor. 3,478,819, 11-18-69, Cl. 165-32.
Reinker, Joseph F., Jr., to Aeroquip Corporation. Identical halves coupling. 3,460,569, 8-12-69, Cl. 137-599.
Reinkoester, William F., Jr., to Loren Cook Company. Ventilator. 3,482,767, 12-9-69, Cl. 230-117.
Reinmoller, Gustav Adolf: *See—*
Putsch, Peter Ulrich; Werner, Paul; and Reinmoller, Gustav Adolf,3,432,880.
Putsch, Peter Ulrich; Werner, Paul; and Reinmoller, Gustav Adolf,3,432,881.
Reinmuth, Ernst F.; and Ter Haar, Leonard W., to Shell Oil Company. Gasification with water-containing feed. 3,446,609, 5-27-69, Cl. 48-215.
Reinmuth, Gene K.: *See—*
Clay, Harris A.; and Reinmuth, Gene K.,3,449,244.
Reinsma, Harold L.; Dadds, Floyd S.; and Johnson, Logan J., to Caterpillar Tractor Company. Self-contained, sealed and lubricated hinge joint. 3,463,560, 8-26-69, Cl. 305-11.
Reinstadler, Rudolf, to Sintermetallwerk Krebsoge G.m.b.H. Sintering method and article manufactured thereby. 3,427,156, 2-11-69, Cl. 75-214.
Reinstahl Wankeim GmbH: *See—*
Wilkenloh, Wilhelm; and Koppers, Manfred, 3,474,628.
Reinzan, Harry P. Receptacle for bag-like container means. 3,421,689, 1-14-69, Cl. 232-43.2
Reis, Charles S., to Hewlett-Packard Company. Method of forming a multicolor electrosensitive recording medium and article. 3,434,878, 3-25-69, Cl. 117-217.
Reis, Helmut: *See—*
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut,3,435,083.
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut,3,445,359.
Reis, Hermann: *See—*
Von Kutepow, Nikolaus; Bittler, Knut; Neubauer, Dieter; and Reis, Hermann,3,455,989.
Reis, John Crittenton; Sommer, Bernard Irving; and Ennis, Thomas E., to General Time Corporation. Oscillator system with malfunction detecting means and automatic switchover circuit. 3,431,510, 3-4-69, Cl. 331-49.
Reis, Joseph W.; and Adams, John M., to International Business Machines Corporation. Shearing device. 3,451,297, 6-24-69, Cl. 83-198.
Reis, Robert D., to United Electric Controls Company. Pilot control valve. 3,470,909, 10-7-69, Cl. 137-625.6
Reis, Smil. Hydraulic circuit for a self-changing four-speed hydrostatic transmission. 3,458,999, 8-5-69, Cl. 60-52.
Reisacher, Josef, to Daimler-Benz Aktiengesellschaft. Installation for regulating an internal combustion engine operating according to a recirculating method, especially underwater crafts. 3,425,402, 2-4-69, Cl. 123-119.
Reisacher, Josef; and Dziggel, Reiner, to Daimler-Benz Aktiengesellschaft. Installation for controlling the beginning of an injection in an injection-type internal combustion engine. 3,455,286, 7-15-69, Cl. 123-139.
Reisacher, Josef; and Gwinner, Dietrich, to Daimler-Benz Aktiengesellschaft. Injection timer with damping means between crankshaft and injection pump. 3,473,409, 10-21-69, Cl. 74-574.

Reisberg, Joseph, to Shell Oil Company. Secondary recovery method using nonsionic surfactant mixtures. 3,455,386, 7-15-69, Cl. 166-275.
Reischl, Artur; Gobel, Wilhelm; and Schmidt, Karl-Ludwig, to Farbenfabriken Bayer Aktiengesellschaft. Cross-linked polyurethanes from vinyl polymers and polyesterunethanes containing at least 3% hexane-1, 6-diol and 2,2-dimethylpropane-1,3-diol. 3,444,266, 5-13-69, Cl. 260-859.
Reischl, Karl E., to Bucyrus-Erie Company. Hoist line hook. 3,445,133, 5-20-69, Cl. 294-83.
Reischl, Karl E., to Bucyrus-Erie Company. Crane jib. 3,477,588, 11-11-69, Cl. 212-55.
Reisener, William C., Jr.: *See—*
Wiesinger, Frederick C.; Lyster, Thomas C.; and Reisener, William C., Jr.,3,423,960.
Reiser, Larry: *See—*
Reiser, Sidney J.; and Reiser, Larry,3,441,042.
Reiser, Mario: *See—*
Mohler, Werner; Reiser, Mario; Popendiker, Kurt; and Von Schuh, Heinz-Georg,3,422,107.
Reiser, Ralph R., to Hewlett-Packard Company. Fast Transistion and gate. 3,421,019, 1-7-69, Cl. 307-218.
Reiser, Ralph R., to Hewlett-Packard Company. Universal TV field selection and method. 3,485,950, 12-23-69, Cl. 178-69.5
Reiser, Richard D.: *See—*
Brothman, Abraham; and Reiser, Richard D.,3,484,694.
Brothman, Abraham; Halpern, Stephen J.; Reiser, Richard D; Cuddeback, Bruce A.; and Miller, Allen H.,3,449,716.
Reiser, Sidney J.; and Reiser, Larry, to Metropolitan Petroleum Petrochemicals Co., Inc. Liquid delivery system including fluid additive injector. 3,441,042, 4-29-69, Cl. 137-101.31
Reisfeld, Frederick, to Potter Instrument Company, Inc. System for controlling the starting and stopping of a capstan. 3,425,613, 2-4-69, Cl. 226-178.
Reisfeld, Frederick, to Potter Instrument Company, Inc. Differential amplifier and peak detector for multiple speed magnetic tape transport. 3,465,321, 9-2-69, Cl. 340-174.1
Reish, Percy J. Iternal thread gauge. 3,432,935, 3-18-69, Cl. 33-199.
Reising, Francis M. Ditching wheels and mountings therefor. 3,419,976, 1-7-69, Cl. 37-94.
Reising, Paul L., to Lear Siegler, Inc. Wire-bending machine. 3,481,172, 12-2-69, Cl. 72-140.
Reisinger, Helmut: *See—*
Winkler, Otto; Reisinger, Helmut; and Ruhe, Jochen,3,457,655.
Reisinger, Kurt: *See—*
Zorn, Hermann; and Reisinger, Kurt,3,423,478.
Reisini, Nicolas: *See—*
Dejoux, Jean Veran, 3,476,470.
Dejoux, Jean Veran, 3,480,362.
Reisman, Arnold: *See—*
Berkenblit, Melvin; and Reisman, Arnold,3,476,592.
Reisman, Arnold; and Leonhardt, Horst R., to International Business Machines Corporation. Vapor polishing technique. 3,480,491, 11-25-69, Cl. 156-17.
Reisman, Coleman A.: *See—*
Jackley, Donald N.; and Reisman, Coleman A.,3,472,699.
Reisner, Sam, to Osco Corporation. Lock-out key assembly. 3,475,934, 11-4-69, Cl. 70-428.
Reisner, Sam, to Osco Corporation. Portable key cutter and key coder. 3,486,226, 12-30-69, Cl. 30-131.
Reiss, Bruno; and Renner, Theodor, to Siemens Aktiengesellschaft. Method of producing crystalline rods from semiconductor compounds. 3,468,638, 9-23-69, Cl. 23-315.
Reiss, Lewis Philip: *See—*
Meyer, Frank L.; Reiss, Lewis Philip; and Titus, Paul E.,3,443,837.
Reiss, Martin H.: *See—*
Cotter, William L.; and Reiss, Martin H.,3,471,846.
Reiss, Max, to Eastman Kodak Company. Four component objective lens. 3,466,116, 9-9-69, Cl. 350-220.
Reissinger, Gottfried. Clearing blade for snowplows. 3,429,059, 2-25-69, Cl. 37-42.
Reissner, Edgar Wilhelm, to Factories Direction Limited. Method of making sheet materials of desired size from smaller sheets joined together. 3,436,290, 4-1-69, Cl. 156-193.
Reist, Walter, to Ferag, Fehr & Reist AG. Apparatus for separating sheets or like articles from a pile. 3,446,498, 5-27-69, Cl. 271-44.
Reistad, Bengt Reistad, to Aktiebolaget Electrolux. Coil for absorption refrigeration apparatus. 3,473,346, 10-21-69, Cl. 62-476.
Reiste, David J.: *See—*
Volk, Rodney H.; and Reiste, David J.,3,421,339.
Reister, Oskar: *See—*
Kampfer, Helmut; Gotze, Johannes; Reister, Oskar; and Bockly, Erich,3,480,439.
Reisz, Peter: *See—*
Di Pasquale, Gene; and Reisz, Peter,3,449,849.
Reit, Henry E.: *See—*
Kihlberg, Gunnar A.; and Reit, Henry E.,3,426,532.
Reiter, Abraham M.; and Court, Patrick R. J., to International Telemeter Corporation. Cryptographic subscription television system with grey sync and dual mode augmenting signals. 3,478,166, 11-11-69, Cl. 178-5.1
Reiter, Alexander L.: *See—*
Skruch, Norman J.; Nelson, Alvin I.; and Reiter, Alexander L.,3,447,337.
Reiter, Gabriel. Dappen-dish construction. 3,485,353, 12-23-69, Cl. 206-63.5
Reiter, Sydney H.: *See—*
Blanchard, Edward R.; and Reiter, Sydney H.,3,453,865.
Bonilla, Charles F.; Brown, Steven H.; and Reiter, Sydney H.,3,483,381.
Reitherman, Ralph W., to Skill-Di., Inc. Electromagnetic actuator. 3,460,001, 8-5-69, Cl. 317-155.5
Reitlinger, Otto: *See—*
Gelardo, Ralph P.; and Reitlinger, Otto,3,470,231.
Reitman, Abraham I. Float controlled valve. 3,485,261, 12-23-69, Cl. 137-216.
Reitmeier Ronald E., to Catalysts and Chemicals, Inc. High temperature catalysts. 3,445,402, 5-20-69, Cl. 252-466.
Reitmeier, Ronald E.; Hirschler, Daniel A., Jr.; Lamb, Frances W.; and Stephens, Ruth E., to Ethyl Corporation Catalysts and Chemicals, Inc. Oxidation catalysts. 3,428,573, 2-18-69, Cl. 252-455.
Reitmeier, Ronald E.; Mayfield, Franklin D.; and Mayes, James H., said Reitmeier and said Mayfield assors. to Foster Grant Co., Inc. Catalytic dehydrogenation process and compositions. 3,437,703, 4-8-69, Cl. 260-669.
Reitsma, Louis J., Jr.: *See—*
Henderson, Courtland M.; Beaver, Emil R., Jr.; and Reitsma, Louis J., Jr.,3,467,555.
Reitz, Albert. Fish-holding device. 3,445,885, 5-27-69, Cl. 17-8.
Reitz, Edgar; and Nestler, Paolo, to Insel-Film GmbH & Co. Reproduction apparatus and screen arrangement for moving picture theaters. 3,480,346, 11-25-69, Cl. 350-120.
Reitz, Kenneth R.: *See—*
Anselm, Courtenay D.; and Reitz, Kenneth R.,3,458,574.
Reitzel, Georg, 1/2 each to Drescher & Kiefer, and Randolph-Rand Corporation. Snap lock for a container with hinged lid. 3,429,604, 2-25-69, Cl. 292-175.
Reitzel, Nicolas M., to Rice Barton Corporation. Apparatus for regulating stock level in a headbox. 3,461,031, 8-12-69, Cl. 162-259.
Reitzel, Nicolas M. Headbox for papermaking machine. 3,471,368, 10-7-69, Cl. 162-338.
Reitzes, Herbert L., to Quickpak Machinery Corporation. Automatic heat sealing mechanism for packaging machines. 3,461,271, 8-12-69, Cl. 219-243.
Rekers, Louis J., to National Distillers and Chemical Corporation. Catalytic process for olefin polymerization. 3,474,080, 10-21-69, Cl. 260-88.2
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S., to National Distillers and Chemical Corporation. Polymerization of vinyl chloride and mixtures of vinyl acetate and ethylene using tertiary alkyl per- 3-alkenoates as catalysts. 3,451,981, 6-24-69, Cl. 260-87.3
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S., to National Distillers and Chemical Corporation. Peroxy compounds, and polymerization of ethylenically unsaturated hydrocarbons using same as catalysts. 3,451,989, 6-24-69, Cl. 260-94.9
Rekewitz, Rudolf: *See—*
Bester, Werner; Butzke, Fritz; Hennig, Fritz; Voelcker, Sven; Reier, Richard; and Rekewitz, Rudolf,3,450,836.
Rekewitz, Rudolf, to Siemens Aktiengesellschaft. Keyboard with binary signal generating structure. 3,422,946, 1-21-69, Cl. 197-16.
Rekiere, Bernard J.: *See—*
Kelly, Michael J.; and Rekiere, Bernard J.,3,452,297.
Kelly, Michael J.; and Rekiere, Bernard J.,3,461,439.
Rekolt, Herman: *See—*
Henry, Andrew G.; and Rekolt, Herman,3,433,246.
Lang, George H., Sr.; and Rekolt, Herman,3,481,600.
Rekow, Oliver B.: *See—*
Elkington, Aubrey H.; and Rekow, Oliver B.,3,454,272.
Relaxacizor, Inc.: *See—*
Moss, John I., 3,424,165.
Relf, Victor K., to Victor Enterprises Limited. Bi-directional pressure relief valve. 3,439,873, 4-22-69, Cl. 236-92.
Reliable Electric Company: *See—*
Golden, James E., 3,480,723.
Sweeney, Lewis D., 3,486,135.
Reliance Electric and Engineering Co.: *See—*
Foster, George B., 3,447,419.
Foster, George B., 3,452,273.
Reliance Electric and Engineering Co., The: *See—*
Willyard, Roger A., 3,446,300.
Reliance Electric and Engineering Company: *See—*
Foster, George B.; and Ostrander, Kenneth A., 3,455,148.
Foster, George B.; and Ostrander, Kenneth A., 3,455,149.
Mokrytzki, Boris, 3,461,373.
Susor, William C.; and Bell, Robert E., 3,459,271.

Reliance Electric and Engineering Company, The: *See—*
Adler, Clarence E., 3,448,639.
Bell, Robert E.; Hall, Donivan L.; and Loshbough, Richard C., 3,435,916.
Braun, Herbert D., 3,450,180.
Collens, Granger H., 3,441,760.
De Lamater, Paul F., 3,429,404.
Eddy, Robert T., 3,453,966.
Eddy, Robert T., 3,456,559.
Eddy, Robert T., 3,473,326.
Eggleston, David O.; and Woyton, Joseph, 3,460,017.
Golding, Frank E., 3,450,179.
Hall, Donivan L.; and Susor, William C., 3,443,667.
Hall, Donivan L.; and Susor, William C., 3,443,668.
Hill, William T., 3,437,160.
Horvath, Ernest A.; and Joyal, Leo T., 3,442,559.
Jacobs, George W., 3,428,148.
Kuzara, James H., 3,450,231.
Metheny, Larry J.; and Mihelick, Joseph R., 3,482,651.
Miko, Albert J., 3,445,698.
Silva, Edmund J., 3,445,702.
Soule, Donald T., 3,444,961.
Susor, William C.; and Martin, Orval J., 3,447,617.
Susor, William C., 3,453,422.
Susor, William C., 3,459,272.
Van Voorhis, Daniel E., 3,442,367.
Woyton, Joseph T., 3,458,773.

Reliance Electric Company: *See—*
Downey, Holmes A., 3,468,138.
Hall, Donivan L.; Martin, Orval J.; and Robaszkiewicz, Gerald D., 3,474,885.
Hall, Donivan L.; and Robaszkiewicz, Gerald D., 3,486,584.

Reliance Sheet & Strip Co.: *See—*
Roberts, Joseph A., 3,463,330.

Reliance Steel Products Company: *See—*
Nagin, Harold, 3,469,300.
Nagin, Leon, 3,469,359.

Reliquifier Corporation of America: *See—*
Hart, James, 3,427,820.

Rellensmann, Wolfgang; Von Falkai, Bela; Reichle, Alfred; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Method for solution spinning polycarbonate filaments. 3,454,526, 7-8-69, Cl. 260-47.

Relton Corporation: *See—*
Ward, James E., 3,439,320.

Rem Metals Corporation: *See—*
Brown, Robert A.; and Brown, Clifford A., 3,422,880.

Rem, Piet Hein: *See—*
Kooy, Cornelis; Munk, Enno Coert; and Rem, Piet Hein,3,472,691.

Remack, Alfred R.: *See—*
Gale, Leo R.; and Remack, Alfred R.,3,420,142.

Remacle, Aloys L. Air filter with supplemental air inlet. 3,452,521, 7-1-69, Cl. 55-419.

Remaly, Robert F.; Shefcik, William P.; and Nelson, Malcolm B., to United States of America, Army, mesne. Felting process for making combustible cartridge cases. 3,474,702, 10-28-69, Cl. 86-1.

Rembold, Karl-Heinz, to Ciba Limited. Process for the manufacture of pre-impregnated webs. 3,480,471, 11-25-69, Cl. 117-161.

Remco Industries, Inc.: *See—*
Domashovetz, Volodymyr, 3,444,646.
Pajak, Witold, 3,479,474.
Tomaro, Patrick M., 3,458,950.
Tomaro, Patrick M., Jr., 3,462,880.

Remeika, Joseph P.: *See—*
Dillon, Joseph F., Jr.; Johnson, Leo F.; and Remeika, Joseph P.,3,480,877.

Remeika, Joseph P., to Bell Telephone Laboratories, Incorporated. Growth of a-domain barium titanate. 3,462,378, 8-19-69, Cl. 252-62.9

Remeika, Joseph P.; and Wood, Darwin L., to Bell Telephone Laboratories, Incorporated. Ferrimagnetic light transmission garnets. 3,447,851, 6-3-69, Cl. 350-1.

Remek, Rudolph J., to Continental Rubber Works. Highway marker. 3,438,311, 4-15-69, Cl. 94-1.5

Remele, Sylvester J. Portable flexible access ladder and safety reels assembly. 3,464,516, 9-2-69, Cl. 182-73.

Remensperger, Franz; Cramer, Max; and Schnee, Walter. Apparatus for delivering dough portions. 3,451,569, 6-24-69, Cl. 214-309.

Remer, Robert K., to Inca Inks, Inc. Pigment composition and method of manufacture. 3,477,866, 11-11-69, Cl. 106-289.

Remer, Robert K.; and Vagenius, Harold N. Catheter. 3,428,046, 2-18-69, Cl. 128-349.

Remer, Russell V.: *See—*
Sienkiewicz, Marvin M.; and Remer, Russell V.,3,467,033.

Remers, William Alan; and Weiss, Martin Joseph, to American Cyanamid Company. Substituted 4,7-dihydroindoles. 3,444,174, 5-13-69, Cl. 260-294.7

Remers, William Alan; and Weiss, Martin Joseph, to American Cyanamid Company. Certain 5,8-dihydro-β-carbolines. 3,455,943, 7-15-69, Cl. 260-296.

Remes, Nathaniel L.; and Ventura, John J., to M&T Chemicals Inc. Method for preparing organoantimony halides. 3,432,534, 3-11-69, Cl. 260-446.

Remington Arms Company, Inc.: *See—*
Bechard, John J.; Dahl, Walter L.; Martin, James S.; Workman, Clark S.; and Sankey, David J., 3,445,951.
Darigo, Julius; Dickey, Rex E.; and Reed, David S., 3,431,612.
Daubenspeck, Benjamin K.; and Rickey, Edward A., 3,440,072.
Dawson, Chester H., 3,449,146.
Donelson, Harlan J., Jr., 3,485,536.
Hartman, Robert B., 3,431,131.
Hartman, Robert B., 3,453,358.
Hartman, Robert B., 3,460,572.
Hartman, Robert B., 3,472,256.
Hartman, Robert B., 3,477,403.
Hartman, Robert B., 3,483,883.
Haskell, Philip R.; and Kane, Roger C., 3,470,860.
Kenney, Joseph F., 3,431,156.
Morse, Charles H., 3,477,162.
Platt, William G.; and Tucker, Henry G., 3,436,736.
Scanlon, John J., 3,485,170.
Yetter, Edward W.; and Conner, Harry G., 3,487,226.

Remington, Duncan S.: *See—*
Durkee, John E.; and Remington, Duncan S.,3,453,390.

Remington, Richard C., to Singer-General Precision, Inc. Device for sensing deviation from the vertical position. 3,487,303, 12-30-69, Cl. 324-65.

Remington, Richard C.; and Buhler, Eugene H., to General Precision Systems Inc. Vertical sensor. 3,442,023, 5-6-69, Cl. 33-206.

Remler, Harry Earl: *See—*
Cashman, Donald Edward; and Remler, Harry Earl,3,449,266.

Remley, Kenneth Herald, to American Cyanamid Company. Process for preparing 1,3-dimethylol-4,5- dihydroxy-2-imidazolidinone. 3,487,088, 12-30-69, Cl. 260-309.7

Remmar, Robert A.; and Schuetz, James W., to Blaw-Knox Company. Roll changing mechanism for rolling mills. 3,433,046, 3-18-69, Cl. 72-239.

Remmey, George Bickley, to Bickley Furnaces Incorporated. Continuous kiln firing system. 3,464,682, 9-2-69, Cl. 263-28.

Remner, Robert A., to Blaw-Knox Company. Strand handling apparatus. 3,470,723, 10-7-69, Cl. 72-291.

Remond, Jean: *See—*
Downing, William D.; and Remond, Jean,3,464,542.

Remondino, Benedetto: *See—*
Jackson, Boris A.; Nalbantian, Stepan; and Remondino, Benedetto,3,448,507.

Rempala, Chester S.: *See—*
Smitzer, Louis A.; Gawin, Adolph J.; Rempala, Chester S.; and Zis, Jerome C.,3,438,323.

Rempel, Henry George. Wad for shotgun shells. 3,420,178, 1-7-69, Cl. 102-95.

Rempel, Robert C., to Spectra-Physics, Inc. Temperature compensating mounting for laser reflectors. 3,484,715, 12-16-69, Cl. 331-94.5

Rempel, Robert C.: *See—*
United States of America,National Aeronautics and Space Administrator, 3,443,208.

Remski, Frank R.: *See—*
Burgess, Paul N.; Cardwell, Robert E.; and Remski, Frank R.,3,476,956.

Remus, Everett A.: *See—*
Burns, John J.; and Remus, Everett A.,3,422,962.

Remy, David C., to Merck & Co., Inc.Piperidine derivatives of dibenzobicyclo[5.1.0.] octane. 3,475,438, 10-28-69, Cl. 260-293.

Remy, Karl Hermann, to American Hoechst Corporation. Naphthol-azo-phenyl monoazo dyestuffs. 3,442,887, 5-6-69, Cl. 260-201.

Renard, Bruno,: *See—*
Gstalder, Serge,; Raynal, Jean,; and Renard, Bruno,,3,443,650.

Renaud, Edward H.; and Gilpin, William W. R., to Radyne Ltd., mesne. Wood panel press. 3,444,029, 5-13-69, Cl. 156-380.

Renaud, Lionel U., to Dye House Products, Inc. Wool top dyeing apparatus. 3,459,013, 8-5-69, Cl. 68-187.

Renaud, Lionel U.; and Gauthier, Rene G., to Dye House Products, Inc. Wool top dye system. 3,459,012, 8-5-69, Cl. 68-187.

Renaudin, Camille. Fastener for encasing measuring instruments. 3,446,466, 5-27-69, Cl. 248-27.

Renaudin, Fernand, to Societe Industrielle du Metal Usine. Fastening clamp. 3,462,804, 8-26-69, Cl. 24-257.

Renaudo, Samuel, to Phillips Petroleum Company. Process for making block polymers of olefins. 3,475,517, 10-28-69, Cl. 260-878.

Renault, Philippe: *See—*
Deschamps, Andre; and Renault, Philippe,3,468,790.

Renault, Philippe, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for converting hydrogen sulfide into elementary sulfur. 3,441,379, 4-29-69, Cl. 23-226.

Renaut, Jacques Albert: *See—*
Ninet, Leon; Renaut, Jacques Albert; and Francois Tissier, Robert Charles,3,421,980.
Renckhoff, Gustav: *See—*
Huelsmann, Hans-Leo; and Renckhoff, Gustav,3,428,668.
Huelsmann, Hans-Leo; and Renckhoff, Gustav,3,476,785.
Hulsmann, Hans-Leo; and Renckhoff, Gustav,3,471,549.
Renckhoff, Gustav, to Chemische Werke Witten GmbH. Process for the preparation of esters of alkyl benzene monocarboxylic acids chlorinated in the nucleus. 3,449,404, 6-10-69, Cl. 260-476.
Wolfes, Wolfang; Renckhoff, Gustav; and Huelsmann, Hans-Leo,3,459,714.
Wolfes, Wolfgang; and Renckhoff, Gustav,3,442,869.
Rendahl, Ingvar, to Husqvarna Vapenfabriks Aktiebolag. Device for basting in lock-stitch sewing machines. 3,447,497, 6-3-69, Cl. 112-158.
Rendall, Ian, to Wimpey, George, & Company Limited. Apparatus for temporarily stowing detachable portions of suspended loads. 3,431,987, 3-11-69, Cl. 173-141.
Rendek, Robert B.: *See—*
Endres, Joseph G.; Wrobel, Raymond J.; and Rendek, Robert B.,3,469,996.
Render, Alwyn Barrie, to Printing, Packaging & Allied Trades Research Association. Electrical control of fluid amplifiers. 3,451,412, 6-24-69, Cl. 137-81.5
Render, Alwyn Barrie; and Gibson, Kevin Julian, to Research Association for the Paper and Board Printing and Packaging Industries, The. Decimal read-out for fluidic counters. 3,450,341, 6-17-69, Cl. 235-201.
Rendessy, William L. Sway control for trailer hitch. 3,471,170, 10-7-69, Cl. 280-446.
Rendina, John E. Plasma atomic vapor generator. 3,484,650, 12-16-69, Cl. 315-111.
Rendler, Norbert J., to United States of America, Navy. Portable-precision hole locating and milling guide. 3,471,935, 10-14-69, Cl. 33-185.
Reneau, James T., Jr., to Sparkler Manufacturing Company. Means for detecting filter cake buildup. 3,428,176, 2-18-69, Cl. 210-86.
Renelt, Gerhard, to North American Philips Company, Inc. Apparatus for checking code-group transmission. 3,430,037, 2-25-69, Cl. 235-153.
Renfro, John C. Dam construction. 3,465,530, 9-9-69, Cl. 61-30.
Renfroe, J. C., & Sons, Inc.: *See—*
Renfroe, Raymond L., 3,424,488.
Renfroe, Raymond L., 3,476,360.
Renfroe, Raymond L., to Renfroe, J. C., & Sons, Inc. Modified X-frame lifting apparatus. 3,424,488, 1-28-69, Cl. 294-67.
Renfroe, Raymond L., to Renfroe, J. C., & Sons, Inc. Quick pry tools. 3,476,360, 11-4-69, Cl. 254-131.
Reni, Cesare: *See—*
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi,3,459,807.
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi,3,464,931.
Barilli, Filippo; Di Fiore, Lucio; and Reni, Cesare,3,454,645.
Reni, Cesare; and Lugo, Luigi, to Societa Italiana Resine S.p.A. Method of separating aromatic hydrocarbons from mixtures containing them. 3,431,199, 3-4-69, Cl. 208-325.
Lugo, Luigi; and Reni, Cesare,3,458,479.
Renken, Claus J., to United States of America, Atomic Energy Commission. Pulsed electromagnetic testing device with sampling means. 3,443,212, 5-6-69, Cl. 324-40.
Renker, Robert L.: *See—*
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr.,3,423,677.
Renker-Belipa G.m.b.H., Firma: *See—*
Winzer, Hermann, 3,468,692.
Renkey, Albert Lajos, to Dresser Industries, Inc. Carbon baking furnaces. 3,448,971, 6-10-69, Cl. 263-46.
Renkey, Albert L.: *See—*
Cope, Gerald R.; Smoot, Thomas W.; and Renkey, Albert L.,3,429,486.
Renkey, Albert L., to Dresser Industries, Inc. Induction furnace construction. 3,429,975, 2-25-69, Cl. 13-35.
Renkey, Albert L., to Dresser Industries, Inc. Reverberatory copper-matte smelting furnace. 3,438,620, 4-15-69, Cl. 266-43.
Renkey, Albert L.; and Troell, Peter T., to Dresser Industries, Inc. Induction furnace construction. 3,427,390, 2-11-69, Cl. 13-35.
Renkowitz, Donald, to General Telephone & Electronics Laboratories, Incorporated. Waveguide filter. 3,435,384, 3-25-69, Cl. 333-73.
Renland, Ingulv. Device for the movement of boats by land. 3,435,939, 4-1-69, Cl. 193-42.
Renn, Donald W.: *See—*
Rao, Koppaka V.; Marsh, William S.; and Renn, Donald W.,3,423,398.
Renn, Madeline S.; and Renn, Neil R. Puzzle. 3,433,485, 3-18-69, Cl. 273-157.
Renn, Neil R.: *See—*
Renn, Madeline S.; and Renn, Neil R.,3,433,485.
Renn, Reynold J. Conical grain roller. 3,459,382, 8-5-69, Cl. 241-141.
Rennard, Raymond J., Jr.: *See—*
Kehl, William L.; and Rennard, Raymond J., Jr.,3,450,787.
Kehl, William L.; and Rennard, Raymond J., Jr.,3,450,788.
Kehl, William L.; Rennard, Raymond J., Jr.; and Basila, Michael R.,3,450,789.
Renne, William C. Thermostatic mixing valve. 3,441,212, 4-29-69, Cl. 236-12.
Renneker, Dennis N.; and Lowery, Throck M., to Chrysler Corporation. Steering column. 3,434,367, 3-25-69, Cl. 74-492.
Rennels, David A.: *See—*
Warren, Joel; Neal, Alan L.; and Rennels, David A.,3,470,067.
Renner, Alfred, to Ciba Limited. Process for the preparation of finely divided, insoluble and infusible melamine-formaldehyde condensation products. 3,428,607, 2-18-69, Cl. 260-67.6
Renner, Alfred, to Ciba Limited. Polyglycidyl ethers of polyglycols. 3,470,110, 9-30-69, Cl. 260-2.
Renner, Arthur W., to Owens-Illinois, Inc. Apparatus for securing closure caps to bottles. 3,451,193, 6-24-69, Cl. 53-334.
Renner, Carl E. Vacuum ejector for fluent materials. 3,457,583, 7-29-69, Cl. 15-314.
Renner Company, The: *See—*
Jennings, Charles E., Jr., 3,482,494.
Renner, Eberhard, to Weka Metallbau Ulm, Walter und Kunzli. Venting element for profile glazing. 3,476,035, 11-4-69, Cl. 98-97.
Renner, Elmer J., to Stephens-Adamson Mfg., Co. Natural frequency vibrating screen. 3,468,418, 9-23-69, Cl. 209-315.
Renner, Frank J.: *See—*
Renner, George B.; and Blashfield, Floyd A., 3,430,552.
Renner, George B.: *See—*
Renner, George B.; and Blashfield, Floyd A., 3,430,552.
Renner, George B.; and Blashfield, Floyd A., to Renner, Frank J. Renner, William M. Renner, George B. Coffee making apparatus. 3,430,552, 3-4-69, Cl. 99-283.
Renner, Gerd Otto: *See—*
Renner, Herbert O.,3,457,087.
Renner, Herbert O., deceased0 (by Renner, Olga F.0Renner, Gerd Otto0Renner, Rolf Herbert; heirs). Method of precessing of peanuts. 3,457,087, 7-22-69, Cl. 99-126.
Renner, Louis C.: *See—*
Thorsted, Kenneth G.; Renner, Louis C.; and Schmidt, Joseph A.,3,430,487.
Renner, Melburn C., to McDonnell Aircraft Corporation. Detector circuit employing signal division means. 3,456,190, 7-15-69, Cl. 324-140.
Renner, Olga F.: *See—*
Renner, Herbert O.,3,457,087.
Renner, Otfried: *See—*
Wick, Richard; Wagner, Karl; Von Albedyll, Joachim; and Renner, Otfried,3,454,755.
Wick, Richard; Wagner, Karl; von Albedyll, Joachim; Renner, Otfried; and Hennig, Fridolin,3,466,992.
Renner, Rolf Herbert: *See—*
Renner, Herbert O.,3,457,087.
Renner, Theodor: *See—*
Reiss, Bruno; and Renner, Theodor,3,468,638.
Renner, Ulrich; and Prins, Daniel A., to Geigy Chemical Corporation. Polycyclic indole derivatives. 3,481,937, 12-2-69, Cl. 260-293.
Renner, William M.: *See—*
Renner, George B.; and Blashfield, Floyd A., 3,430,552.
Renner, William M.: *See—*
Renner, George B.; and Blashfield, Floyd A., 3,430,552.
Rennert, Joseph. Data storage system with organic memory. 3,487,377, 12-30-69, Cl. 340-173.
Rennert, Stanley. Releasable buckle for strapped loads. 3,434,186, 3-25-69, Cl. 24-191.
Rennick, John L., to Zenith Radio Corporation. Color television receiver utilizing a modified luminance signal. 3,470,312, 9-30-69, Cl. 178-5.4
Rennie, Compton Alexander; Lockett, George Edward; and Acciarri, Pietro, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,427,220, 2-11-69, Cl. 176-31.
Rennie, Frank P.: *See—*
Anderson, Wilmer C.; and Rennie, Frank P.,3,421,024.
Rennie, Robert Allan Campbell: *See—*
Bell, William Hamilton; Rennie, Robert Allan Campbell; and Sampson, Roy John,3,458,520.
Renniks Corporation: *See—*
Skinner, Ralph L., Sr., 3,442,517.
Skinner, Ralph L., Sr., 3,450,411.
Reno, William H.; and Frill, Richard K., to Westinghouse Air Brake Company. Variable load valve device. 3,460,872, 8-12-69, Cl. 303-22.
Reno, William H.: *See—*
Temple, Fred; and Reno, William H.,3,476,407.
Renold Limited: *See—*
Hopkins, John Edward, 3,426,606.

Renoux, Pierre Edouard, to Societe Anonyme dite: Cri-Dan. Thread cutting machine. 3,420,126, 1-7-69, Cl. 82-5.
Renoux, Robert, to CSF-Compagnie Generale de Telegraphie Sans Fil. Miniature record-players. 3,466,051, 9-9-69, Cl. 274-15.
Renriden Corporation: *See—*
Pouliot, Richard D., 3,430,440.
Renshaw, Floyd Harold, Jr., to AMP Incorporated. Electrical connector and insulation housing therefor. 3,471,823, 10-7-69, Cl. 339-47.
Rensulate Corporation: *See—*
Keller, James P., 3,484,509.
Rentrop, P. A., GmbH: *See—*
Wahlmann, Ernst, 3,475,016.
Rentsch, Wolfgang: *See—*
Bauerle, Wilhelm; and Rentsch, Wolfgang,3,463,951.
Rentschler, John H.; and Carlson, Robert W., Jr., to Minnesota Rubber Company. Static seal. 3,472,523, 10-14-69, Cl. 277-209.
Rentschler, John H.; and Sewall, Loren J., to Minnesota Rubber Company. Pinch roller. 3,432,083, 3-11-69, Cl. 226-186.
Rentschler, Waldemar T., to Prontor-Werk Alfred Gauthier, G.m.b.H. Testing means for an electronically operating automatic exposure system for photographic cameras. 3,480,860, 11-25-69, Cl. 324-96.
Rentschler, Waldemar T.; and Rittmann, Dieter, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic camera with interlens shutter. 3,476,030, 11-4-69, Cl. 95-53.
Rentschler, Waldemar T.; and Starp, Franz W. R., to Prontor-Werk Alfred Gauthier G.m.b.H. Apparatus for releasing a photographic camera and for determining the exposure period. 3,448,671, 6-10-69, Cl. 95-53.
Rentschler, Waldemar T.; and Starp, Franz W. R., to Prontor-Werk Alfred Gauthier G.m.b.H. Flash gun for expendable flash bulbs. 3,456,101, 7-15-69, Cl. 240-1.3
Rentschler, Waldemar T.; and Starp, Franz W. R., to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic slit-type shutter. 3,468,236, 9-23-69, Cl. 95-57.
Rentz, John C., to General Electric Company. Method for forming nonwoven electric blanket shells. 3,431,611, 3-11-69, Cl. 28-72.2
Rentz, John C., to United States of America, Army. Button for holding thermocouples to the skin surface of subjects. 3,464,864, 9-2-69, Cl. 136-221.
Rentzepis, Peter M.: *See—*
Bond, Walter L.; Duguay, Michel A.; and Rentzepis, Peter M.,3,484,721.
Duguay, Michel A.; Giordmaine, Joseph A.; and Rentzepis, Peter M.,3,453,429.
Pao, Yoh-han; and Rentzepis, Peter M.,3,431,484.
Rentzsch, Max: *See—*
Bock, Erich; and Rentzsch, Max,3,439,619.
Renwanz, Gerhard; Credner, Karl; and Glantz, Erika, to Diwag Chemische Fabriken G.m.b.H. Protracted release pharmaceutical compositions. 3,437,728, 4-8-69, Cl. 424-21.
Renwick, Charles S., Jr. Packaged fuel supplement. 3,454,377, 7-8-69, Cl. 44-40.
Renwick, William C., to Dow Corning Corporation. Composite for sealing joints and method of making same. 3,476,842, 11-4-69, Cl. 264-47.
Renz, Jany; Bourquin, Jean Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav, to Sandoz Ltd., also known as Sandoz A.G.5-(Amino-loweralkyl)-4,5-dihydrothieno[2,3-b]-benzothiazepin-4-ones. 3,464,977, 9-2-69, Cl. 260-230.3
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav, to Sandoz Ltd., a/k/a Sandoz A.G. 4-Piperazinyl thienobenzothiazepines. 3,474,099, 10-21-69, Cl. 260-268.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav, to Sandoz Ltd., also known as Sandoz A.G.4-Substituted aminopropyl-4H-thieno[2,3-β] [1,4]benzothiazines. 3,478,022, 11-11-69, Cl. 260-243.
Renz, Wacker & Co. Ohg., Kettens und Maschinenfabrik, Firma: *See—*
Renz, Wilhelm, 3,427,716.
Renz, Wilhelm, to Renz, Wacker & Co. Ohg., Kettens und Maschinenfabrik, Firma. Method of making contacts. 3,427,716, 2-18-69, Cl. 29-630.
Renzi, Peter N., to American Radiator & Standard Sanitary Corporation. Heat exchanger construction. 3,479,489, 11-18-69, Cl. 219-540.
Renzoni, Louis S.; Di Bari, George Angelo; Knapp, Burton B.; and Carlin, Francis X., to International Nickel Company, Inc., The. Production of electrolytic nickel. 3,437,571, 4-8-69, Cl. 204-112.
Repco Products Corporation: *See—*
Bunten, Theodore M., 3,474,765.
Wisniewski, Walter S., 3,482,030.
Repiscak, Joseph H.: *See—*
Repiscak, Steve; and Repiscak, Joseph H.,3,463,533.
Repiscak, Steve; and Repiscak, Joseph H. Arm extender. 3,463,533, 8-26-69, Cl. 294-19.
Repka, Ervin A. Portable tower. 3,473,627, 10-21-69, Cl. 182-16.
Repke, Virginia: *See—*
Mesek, Frederick K.; and Repke, Virginia,3,452,877.
Repko, John P., to Dow Chemical Company, The. Dispensing container for displaying articles on a surface. 3,448,853, 6-10-69, Cl. 206-78.
Repko, John P., to Dow Chemical Company, The. Package. 3,453,661, 7-1-69, Cl. 401-132.
Repko, John P., to Dow Chemical Company, The. Bag assemblage. 3,456,867, 7-22-69, Cl. 229-66.
Repko, John P., to Dow Chemical Company, The. Dual compartment container. 3,469,768, 9-30-69, Cl. 229-56.
Repko, John P., to Dow Chemical Company, The. Bag opening device. 3,480,198, 11-25-69, Cl. 229-66.
Replica Associates, Inc.: *See—*
Kranz, Hugo E., 3,446,162.
Repp, Fred J. Pumping system. 3,422,768, 1-21-69, Cl. 103-234.
Reppenhagen, Arthur C., to MWA Company. Control for grinding machine. 3,445,967, 5-27-69, Cl. 51-34.
Reppenhagen, Arthur C., to MWA Company. Billet grinder. 3,451,170, 6-24-69, Cl. 51-35.
Reppert, Miles N., to Western Electric Company, Incorporated. Apparatus for selecting articles having a desired orientation. 3,472,356, 10-14-69, Cl. 198-33.
Repsdorph, Inger; Kroyer, Karl Kristian Kobs; and Damgard-Iversen, Jorgen, to Kroyer, Karl Kristian Kobs, and Aktieselskabet Niro Atomizer. Process for preparing a dry free-flowing glucose product from a solution thereof. 3,477,874, 11-11-69, Cl. 127-58.
Republic Corporation: *See—*
Icenbice, Phineas J., Jr.; and Rooklyn, Janck, 3,454,956.
Republic Industrial Corporation: *See—*
Gerhardt, Richard E.; and Thurston, Raymond L., 3,444,915.
Thurston, Raymond L., 3,444,916.
Republic Industries, Inc.: *See—*
Martin, Paul W., 3,478,468.
Republic Molding Corporation: *See—*
Heck, Edward E., 3,451,453.
Republic Packaging Corporation: *See—*
Mykleby, Laurie G., 3,423,008.
Republic Steel Corporation: *See—*
Avellone, Richard C., 3,468,783.
Fischer, Donald A.; and Nadensek, Edward H., 3,481,379.
Fitzhugh, Edward F., Jr.; Seidel, Don C.; and Oberg, Fred N., 3,473,920.
Hammer, Herman J., 3,422,346.
Hill, Morse; and Matas, Stephen J., 3,453,152.
Latiano, Raymond N., 3,445,977.
Park, Francis W.; Blough, Arthur K.; Noll, Stanley Darwin; Delfeld, William F.; Kraus, George I.; and Kraus, Robert, 3,439,794.
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F., 3,426,191.
Radcliffe, Thomas J.; McElhaney, Daniel M., Jr.; and Havel, Daniel F., 3,436,543.
Reusser, Hans E., 3,433,280.
Reusser, Hans E.; and Hill, Morse, 3,478,523.
Shepard, George A.; and Brooker, Carl F., 3,438,754.
Sower, George W.; and Harmon, William C., 3,447,074.
Stoll, Robert F.; and Snellings, Albion K., 3,436,103.
Stone, Leonard R.; Reim, Thomas E.; Muskovac, Nicholas G.; and Cook, James E., 3,431,415.
Republic Tool & Manufacturing Corporation: *See—*
McRoskey, John W.; and Mc Roskey, Leonard H., 3,439,159.
McRoskey, Leonard H.; and McRoskey, John W., 3,466,043.
McRoskey, Leonard H.; and McRoskey, John W., 3,471,690.
McRoskey, Leonard H.; and McRoskey, John W., 3,474,567.
Requa, Stanley C., to Northrop Corporation. Digitally addressed solid state electroluminescent display device. 3,479,646, 11-18-69, Cl. 340-166.
Rerolle, Paul; and Richard, Claude, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Delignification of chemical cellulose pulps with oxygen and then chlorine. 3,423,282, 1-21-69, Cl. 162-65.
Resag, Jorg; and Fussnegger, Wolfgang, to Recaro A.G. Hinge fitting for a seat and back rest. 3,471,892, 10-14-69, Cl. 16-139.
Resag, Jorg; and Fussnegger, Wolfgang, to Recaro AG. Hinge fitting for a seat and back rest. 3,474,487, 10-28-69, Cl. 16-140.
Resch, Werner; and Fliege, Oskar, to Hoesch Aktiengesellschaft. Apparatus for forming a tap hole including boring tool, blowpipe and blowpipe cutoff means. 3,450,399, 6-17-69, Cl. 266-42.
Reschetz, Raymond R.: *See—*
Fast, Byron L.; and Reschetz, Raymond R.,3,456,790.
Rescigno, Joseph. Plumbing tools. 3,458,183, 7-29-69, Cl. 269-48.1
Resco Products, Inc.: *See—*
Tredennick, William T.; and Miller, James Richard, 3,429,487.
Research and Development Pty. Ltd.: *See—*
Warman, Charles H., 3,421,652.
Warman, Charles Harold, 3,464,552.
Research Associates Inc.: *See—*
Garshelis, Ivan J., 3,458,774.

Research Association for the Paper and Board Printing and Packaging Industries, The: *See—*
Render, Alwyn Barrie; and Gibson, Kevin Julian, 3,450,341.
Research Corporation: *See—*
Bonse, Ulrich Karl; and Hart, Michael, 3,446,961.
Bungay, Henry R., III, 3,457,420.
Donaruma, Lorraine Guy, 3,424,841.
Donaruma, Lorraine Guy, 3,472,893.
Eastman, Lester F.; and Kennedy, Wilbert K., Jr., 3,487,334.
Griffin, Gary W.; and Kristinsson, Haukur, 3,445,357.
Hair, Hugh A.; Roome, Gerard T.; Gerst, Carl W.; Des-Jardins, Edgar E.; and Domick, Edward J., 3,447,143.
Holland, Lawrence R., 3,450,992.
Humphries, Ervin G., 3,466,859.
Karp, Arthur; Winslow, Donald K.; and Shaw, Herbert J., 3,475,642.
Lotmar, Walter, 3,467,099.
Ludwig, Allen C., 3,440,064.
Marullo, Nicasio P., 3,461,166.
Marvel, Carl S.; Okada, Masahiko; and De Schryver, Frans, 3,475,374.
Moore, Carl E.; Cassaretto, Frank P.; McLafferty, John J.; and Posvic, Harvey W., 3,468,959.
Ness, Anders B.; and Noah, Edward L., 3,440,866.
Peterson, Howard P., 3,461,845.
Petterson, Robert C., 3,452,091.
Petterson, Robert C., 3,454,637.
Petterson, Robert C.; and Dimaggio, Anthony H., III, 3,481,850.
Ricard, Jacques L.; Graham, Robert D.; and Mothershead, John S., 3,464,782.
Rudolph, Luther D.; Blackwell, Paul K., Jr.; and Hair, Hugh A., 3,445,821.
Sawyer, Philip N., 3,477,436.
Schmulbach, Charles D., 3,427,137.
Sproston, Thomas, Jr., 3,438,998.
Voelcker, Herbert B., Jr., 3,428,917.
Weesner, William E., 3,459,787.
Wiley, Robert A., 3,442,948.
Research Designing Services, Inc.: *See—*
Wilkins, Howard W., 3,439,581.
Research Engineering & Manufacturing Inc.: *See—*
Phipard, Harvey F., Jr., 3,426,642.
Phipard, Harvey F., Jr., 3,426,820.
Phipard, Harvey F., Jr., 3,446,262.
Phipard, Harvey F., Jr., 3,454,070.
Research III, Inc.: *See—*
Odenberg, Richard; and Jameson, William L., 3,475,653.
Research, Incorporated: *See—*
Abramson, Andrew E.; and Kitchar, Andrew F., 3,447,994.
Abramson, Andrew E.; and Kitchar, Andrew F., 3,472,721.
Pauls, Edward A., 3,436,524.
Research Institute for Medicine and Chemistry, Inc.: *See—*
Barton, Derek Harold Richard, 3,464,979.
Barton, Derek Harold Richard, 3,480,622.
Research Laboratories of Australia Limited: *See—*
Oliphant, Keith Meridith, 3,444,083.
Research Laboratorium Dr. C. Janssen N. V.: *See—*
Janssen, Paul Adriaan Jan, 3,438,991.
Research of Infectious Diseases, The: *See—*
Suter, Hans; and Zutter, Hans, 3,485,834.
Resener, Baird E., to Amsted Industries Incorporated. Protective covering. 3,425,724, 2-4-69, Cl. 287-130.
Resener, Baird E., to Amsted Industries Incorporated. Flexible coupling device. 3,476,227, 11-4-69, Cl. 192-105.
Reserv-A-Roll Co.: *See—*
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C., 3,474,977.
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C., 3,475,068.
Reserve Mining Company: *See—*
Haley, Kenneth M.; Molinaro, Lawrence J.; and Reed, Richard L., 3,438,491.
Halsey, Homer P., 3,433,057.
Halsey, Homer P., 3,443,692.
Irvine, Boyd W., Jr.; and Judkins, Kenneth R., 3,420,512.
Liljegren, Jack G.; Schaal, Wayne G.; and Schubert, Lawrence F., 3,480,212.
Moyer, Allan M.; McCarthy, William R.; and Petrell, Wilfred M., 3,464,506.
Resetich, John Martin, to Deere & Company. Crop pickup device for a harvester. 3,474,605, 10-28-69, Cl. 56-27.
Resh, Kyle W.; and Yarbrough, Jack, to Continental Oil Company. Removing benzene from aqueous muriatic acid using a liquid paraffin. 3,445,197, 5-20-69, Cl. 23-312.
Resina Automatic Machinery Co., Inc.: *See—*
Weller, Arthur W., 3,435,587.
Resinite Corporation: *See—*
Hatton, Richard L., 3,460,246.
Resistance Welder Corporation: *See—*
Beauvais, Rene G., 3,460,225.
Janiske, Donald J., 3,473,643.
Resistofler Corporation: *See—*
Press, Irving D., 3,446,248.
Resistoflex Corporation: *See—*
Press, Irving D., 3,480,707.
Resko, Stephen J.: *See—*
Winsor, Frederick J.; and Resko, Stephen J.,3,439,147.
Resnick, Israel, to United States of America, Navy. Syntactic foam. 3,477,967, 11-11-69, Cl. 260-2.5
Resnikoff, Howard L.: *See—*
Dolby, James L.; and Resnikoff, Howard L.,3,439,341.
Respond Inc.: *See—*
Ott, Richard J., 3,463,399.
Resseguie, Robert E., to General Motors Corporation. Thermostatic vacuum valve and bimetal element therein. 3,451,270, 6-24-69, Cl. 73-363.5
Ressler, Erhard O., to Avco Corporation. Zener-diode box car switch with resistive dividers for balanced circuit operation. 3,428,831, 2-18-69, Cl. 307-257.
Ressler, Erhard O., to Avxo Corporation. Mounting arrangement for a wall cabinet. 3,436,138, 4-1-69, Cl. 312-242.
Ressorts du Nord S.A.: *See—*
Duchemin, Michael, 3,456,939.
Rest, Heinz: *See—*
Roock, Hans; and Rest, Heinz,3,486,397.
Restaino, Alfred J.; and Reed, Weldon N., to Atlas Chemical Industries, Inc. Process for producing graft copolymers using radiation. 3,461,052, 8-12-69, Cl. 204-159.12
Restall, James Edward, to Power Jets (Research and Development) Limited. Method of coating metals with a silicide layer and an outer layer of alumina-silicate. 3,443,978, 5-13-69, Cl. 117-21.
Restivo, Albert R.: *See—*
Dondzila, Frank A.; Restivo, Albert R.; and Yale, Harry L.,3,426,020.
Resz, Raoul; Bartl, Herbert; Weber, Karl-Arnold; and Boll, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Hot sealing compositions for textiles. 3,483,076, 12-9-69, Cl. 161-256.
Reszka, Alfons, to Teletype Corporation. Signal sequence correction system. 3,427,584, 2-11-69, Cl. 340-146.1
Rethmeier, Gerhard, to Anker-Werke Aktiengesellschaft. Printing and calculating machine controlled by label supplying devices. 3,472,447, 10-14-69, Cl. 235-60.
Rethmeier, Gerhard, to Anker-Werke Aktiengesellschaft. Controls for business machines such as bookkeeping machines and the like. 3,478,959, 11-18-69, Cl. 235-3.
Rethwisch, Lloyd E. Universal couplings. 3,453,842, 7-8-69, Cl. 64-9.
Retobobina Handelsanstalt: *See—*
Faulhaber, Fritz, 3,467,847.
Retsky, Michael W.: *See—*
Lorenzi, Donald E.; Groble, Kenneth K.; and Retsky, Michael W.,3,450,985.
Rette, Stanley P.: *See—*
Bauman, Joseph F.; and Rette, Stanley P.,3,430,292.
Rettig, August: *See—*
Bonitz, Eckhard; and Rettig, August,3,451,833.
Rettig, Peter P.: *See—*
Kull, Albert R.; and Rettig, Peter P.,3,431,768.
Retzke, Franklin Albert: *See—*
Murphy, Allen Milton, Jr.; Retzke, Franklin Albert; and Johnson, John Raymond,3,479,175.
Retzler, William, to Colibri Lighters Limited. Cigarette lighters. 3,432,248, 3-11-69, Cl. 431-149.
Retzler, William, to Colibri Lighters Limited. Adaptors for use in refilling gas burning cigarette lighters. 3,476,158, 11-4-69, Cl. 141-84.
Reuben, Bertie J.: *See—*
Hartgrove, Earl H., Jr.; Hirshfeld, Julian J.; and Reuben, Bertie J.,3,484,182.
Reuben, Bertie J.; Kay, Harold D.; Hirshfeld, Julian J.; and Hartgrove, Earl H., Jr., to Monsanto Company. Acid fume stabilized spandex. 3,462,297, 8-19-69, Cl. 117-138.8
Hirshfeld, Julian J.; and Reuben, Bertie Joseph,3,462,238.
Yao, David C. T.; Hirshfeld, Julian J.; and Reuben, Bertie J.,3,429,647.
Reuge, Henri; and Bonhote, Rene, to Reuge Societe Anonyme. Front safety thrust-block for ski binding. 3,445,123, 5-20-69, Cl. 280-11.35
Reuge Societe Anonyme: *See—*
Reuge, Henri; and Bonhote, Rene, 3,445,123.
Reukauf, William B.: *See—*
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B.,3,459,624.
Baus, Ammon; Keller, Frederick C.; and Reukauf, William B.,3,463,696.
Reuland Electric Company: *See—*
Beaudry, Russell G.; and Palm, Bernhard N., 3,445,699.
Reumerman, Theodorus; and Helmig, Willem Hendrik Theodoor. Device for character recognition. 3,432,809, 3-11-69, Cl. 340-146.3

Reus, John F.: *See—*
Anderson, Maynard E.; Balaz, Charles S.; Reus, John F.; and Thorson, Sheldon E.,3,469,777.
Reus, John F., to Friden, Inc. Antibackup device. 3,422,699, 1-21-69, Cl. 74-534.
Reusch, Gotthilf, to Eberspacher, J. Method of encapsulating reactive layer exhibiting reversible variable light permeability. 3,470,049, 9-30-69, Cl. 156-145.
Reuschel, Konrad, to Siemens Aktiengesellschaft. Method of crucible-free zone melting of semi- conductor material, particularly silicon. 3,454,367, 7-8-69, Cl. 23-301.
Reuschel, Konrad; and Schink, Norbert, to Siemens Aktiengesellschaft. Method for the production of silicon of high purity. 3,446,653, 5-27-69, Cl. 117-106.
Reuschel, Konrad: *See—*
Raithel, Kurt; Reuschel, Konrad; and Keller, Wolfgang,3,461,359.
Reuss, Max L., Jr., to United States of America, Navy. Phase shift enhancement for a microwave ferrite phase shifter. 3,474,361, 10-21-69, Cl. 333-31.
Reuss, Max L., Jr.: *See—*
Marston, Arthur E.; and Reuss, Max L., Jr.,3,457,509.
Reusser, Hans E., to Republic Steel Corporation. Locknut. 3,433,280, 3-18-69, Cl. 151-21.
Reusser, Hans E.; and Hill, Morse, to Republic Steel Corporation. Mine roof bolt bearing plate. 3,478,523, 11-18-69, Cl. 61-45.
Reussner, Horst, to Mahle Komm.-Ges. Oil control piston ring. 3,459,432, 8-5-69, Cl. 277-163.
Reuteler, Johann F., to Pratt & Whitney Inc. Servo system. 3,443,178, 5-6-69, Cl. 318-18.
Reuter, Brian Ronald, to Consolidated Engineering Company. Pressure actuated switch and plug assembly. 3,485,976, 12-23-69, Cl. 200-83.
Reuter, Brian R.; and Stern, Stuart, to Consolidated Engineering Company, Inc.(CECO). Material drying and conveying apparatus. 3,440,733, 4-29-69, Cl. 34-10.
Reuter, Gottfried, to Bucyrus-Erie Company. Cable control apparatus. 3,458,053, 7-29-69, Cl. 212-46.
Reuter, Gottfried; and Plymale, Julian K., to Bucyrus-Erie Company. Telescoping boom for hydraulic crane. 3,465,899, 9-9-69, Cl. 212-55.
Reuter, Gottfried: *See—*
Grider, Lyle D.; Reuter, Gottfried; and Mork, George W.,3,445,004.
Reuter, Lothar: *See—*
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert,3,472,799.
Burger, Heinz; Mohr, Heinrich; Priebe, Edmund; Reuter, Lothar; and Weber, Heinz,3,441,524.
Reuter, Martin: *See—*
Dursch, Walter; Landauer, Franz; Reuter, Martin; and Weckler, Gerhard,3,433,574.
Reuther, Philip C.: *See—*
Levine, Eli; and Reuther, Philip C.,3,459,699.
Levine, Eli; and Reuther, Philip C.,3,485,811.
Reutlinger, Dr., & Sohne: *See—*
Reutlinger, Wolf-Dieter, 3,422,668.
Reutlinger, Wolf-Dieter, to Reutlinger, Dr., & Sohne. Device for measuring mechanical vibration. 3,422,668, 1-21-69, Cl. 73-71.4
Revell, Alan E., to American Air Filter Company, Inc. Switch arrangement for roll-type filters. 3,467,797, 9-16-69, Cl. 200-61.16
Revell, Donald H.; and Nolan, William A., to Reynolds Metals Company. Method and apparatus for making a thermally insulating joint construction. 3,441,995, 5-6-69, Cl. 29-155.
Revell, Incorporated: *See—*
Ernst, Donald E., 3,467,311.
Reven, Lewis E.: *See—*
Mindick, Morris; and Reven, Lewis E.,3,468,813.
Reventas, Algirdas A.: *See—*
Zawadzki, Thomas; Reventas, Algirdas A.; and Lee, Richard M.,3,423,347.
Reverand, Auguste, to Societe Rhodiaceta. Coating of pulverulent materials. 3,421,931, 1-14-69, Cl. 117-100.
Revere Copper and Brass Incorporated: *See—*
Bunn, Edward Schaible, 3,481,024.
La Tart, Leland J., 3,469,362.
Revere Corporation of America: *See—*
Elengo, John J., Jr., 3,422,671.
Jacobson, Walter E., 3,422,445.
Jacobson, Walter E., 3,433,064.
Revertex Limited: *See—*
Ingleby, Richard F. J., 3,445,407.
Revertex, Ltd.: *See—*
Brown, Peter, 3,449,156.
Sington, Edward Peter Campbell, 3,457,135.
Revesz, George: *See—*
Marks, Bruce G.; and Revesz, George,3,441,334.
Revici, Emanuel. Compositions and methods for treating posttraumatic shock, pain and hemorrhage. 3,470,295, 9-30-69, Cl. 424-180.
Revilock, Joseph F.: *See—*
Cadwallader, Edgar A.; and Revilock, Joseph F.,3,428,114.
Revlon, Inc.: *See—*
Gerstein, Terry; Perlberg, William; and Schwarz, Milton H., 3,485,915.
Holtzman, Harris; and Schwarz, Milton H., 3,446,568.
Kamen, Melvin E., 3,446,900.
Kamen, Melvin E., 3,453,705.
Revoir, William H.; and Gardner, Wesley M., to American Optical Company, mesne. Adsorbent for ammonia gas. 3,436,352, 4-1-69, Cl. 252-193.
Revukas, Anthony J., to Cities Service Oil Company. Organo metal halide orthophosphate gasoline additive. 3,440,028, 4-22-69, Cl. 44-69.
Revukas, Anthony J., to Cities Service Oil Company. Metal hydrocarbyl orthophosphate gasoline additive. 3,445,206, 5-20-69, Cl. 44-69.
Revukas, Anthony J., to Cities Service Oil Company. Metal fluorocarbyl phosphates. 3,478,088, 11-11-69, Cl. 260-429.5
Rew, Ian Arthur; Bell, Robert Valentine; and Cooper, Raymond, to Weston Instruments, Inc. Electric voltage measuring apparatus including a current-regulated zener diode for zero suppression. 3,428,897, 2-18-69, Cl. 324-131.
Rewo Chemische Fabrik GmbH: *See—*
Nohl, Egon; and Nohl, Gertrud, 3,436,162.
Rex Asbestwerke, Graf von Rex K.G.: *See—*
Wilke, Werner; and Fetzer, Hans, 3,452,532.
Wilke, Werner; and Fetzer, Hans, 3,475,894.
Rex Chainbelt Inc.: *See—*
Barnum, Orville G., 3,459,437.
Caron, Fred Joseph; and Barnum, Orville G., 3,463,063.
Cheesman, William D.; and Hoefs, Ralph H., 3,483,056.
Colgan, William L., 3,424,036.
Cushman, Kenneth V.; and Miller, Delmar S., 3,465,637.
Evans, Robley W., 3,425,535.
Germond, Henry S., IV, 3,478,846.
Gley, Paul R., 3,454,250.
Hudis, Michael I., 3,421,418.
Imse, Philip J., 3,428,373.
Morris, John M., 3,434,586.
Raynor, Warren S.; and Burgess, Keith A., 3,448,867.
Strehlow, Robert W., 3,446,487.
Rex Laboratories, Inc.: *See—*
Kane, John R., 3,463,645.
Kane, John R., 3,475,187.
Rex-Stroll-O-Chair Company: *See—*
Gottfried, Louis; and Berger, Jacob, 3,464,754.
Rexall Drug and Chemical Company: *See—*
Alberts, James R.; and O'Hara, Kim L., 3,421,739.
Anderson, John E.; Holloway, Francis H.; and Steen, William A., 3,469,948.
Baltes, Bernard J., 3,487,153.
Berkebile, Glenn S., 3,469,826.
Carrock, Frederick E.; Toekes, Barna; and Doak, Kenneth W., 3,428,712.
Croyle, Jack V., 3,461,488.
Goebel, George A.; and Canterino, Peter J., 3,435,019.
Hostetler, Donald E., 3,435,095.
Klohs, Murle W.; and Petracek, Francis J., 3,446,820.
Marchant, Paul A.; and McHardy, Kenneth Ray, 3,467,287.
Mason, Jimmie L., 3,447,722.
Petracek, Francis J., 3,433,836.
Petracek, Francis J., 3,452,092.
Prussin, Sam; and Florian, John, 3,442,424.
Schrage, Albert; and Schoenberg, Jules E., 3,470,143.
Swett, James B., 3,426,935.
Swett, James B.; and Nixon, Charles L., 3,476,297.
Rey, Hans-Georg: *See—*
Haack, Erich; Rey, Hans-Georg; and Rieckmann, Peter,3,443,903.
Rey, Henri. Device for waxing skis. 3,425,394, 2-4-69, Cl. 118-66.
Rey, Henri. Waxing machine for skis. 3,464,381, 9-2-69, Cl. 118-202.
Reyburn, Nathaniel R., to Owens-Illinois, Inc. Method for molding plastic articles. 3,485,911, 12-23-69, Cl. 264-161.
Reyes, Edward: *See—*
Cox, George W.; Garcia, Lloyd J.; and Reyes, Edward,3,476,270.
Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., to Upjohn Company, The. Partial esters as polyols for polyurethane foams. 3,431,223, 3-4-69, Cl. 260-2.5
Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., to Upjohn Company, The. Stabilizer for polyurethane-premix. 3,438,908, 4-15-69, Cl. 252-182.
Reymore, Harold E., Jr.; and Tilley, James N., to Upjohn Company, The. Polyurethane foams derived from hydroxyalkylated ureas. 3,420,787, 1-7-69, Cl. 260-2.5

Reymore, Harold E., Jr.: *See*—
Nashu, Abdul-Munim; Reymore, Harold E., Jr.; and Dayigh, Adnan A. R.,3,437,607.
Odinak, Alec; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R.,3,423,344.
Reyna, Armando: *See*—
Celada, Juan; Villarreal, David; Reyna, Armando; and Mackay, Patrick W.,3,467,368.
Reynal, Thomas J.; and Blocher, Thomas J., to Dresser Systems, Inc., mesne. Analog to digital converter. 3,462,758, 8-19-69, Cl. 340-347.
Reynaud, Samuel Chester. Sliding movement latch assembly for window or the like. 3,463,531, 8-26-69, Cl. 292-152.
Reynders, Eugene Albert, to Ajem Laboratories, Inc. Stop and hold device for doors. 3,423,784, 1-28-69, Cl. 16-82.
Reyner, Charles T. Clamping frames. 3,423,082, 1-21-69, Cl. 269-104.
Reynolds, Albert H.: *See*—
Ruzevick, Peter M.; Adams, Ronald F.; and Reynolds, Albert H.,3,425,954.
Reynolds, Alex J.; and LoRusso, Rinaldo A., to United States of America, Air Force. Expandable portable shelter. 3,421,268, 1-14-69, Cl. 52-70.
Reynolds, Bobby J.: *See*—
Metzger, Courtney A.; Hearld, Albert B.; McMullen, Bobby G.; and Reynolds, Bobby J.,3,483,091.
Reynolds, Charles Edward: *See*—
Winrow, Donald; Longenecker, Bruce Cameron; and Reynolds, Charles Edward,3,469,258.
Reynolds, Charles I.Adjustable child's shampoo chair. 3,428,361, 2-18-69, Cl. 297-182.
Reynolds, Delbert D.: *See*—
Perry, Ernest J.; and Reynolds, Delbert D.,3,425,836.
Reynolds, Donald S.; and Krueger, Harvey R., to Reynolds Products, Inc. Beverage dispensing machine. 3,441,176, 4-29-69, Cl. 222-70.
Reynolds, Donald S.; and Krueger, Harvey R., to Reynolds Products, Inc. Beverage brewing machine. 3,479,949, 11-25-69, Cl. 99-282.
Reynolds, Donald S.; Krueger, Harvey R.; and Morgan, Arthur A., to Reynolds Products, Inc. Automatic beverage brewer. 3,443,508, 5-13-69, Cl. 99-282.
Reynolds, Dwight W.: *See*—
Weston, Charles D.; Gagnon, William J., Jr.; and Reynolds, Dwight W.,3,462,608.
Reynolds, Edmond F.: *See*—
Gullett, David E.; and Reynolds, Edmond F.,3,477,937.
Reynolds, Eldon J., to Reynolds Research & Manufacturing Corporation. Ground working equipment. 3,452,827, 7-1-69, Cl. 172-705.
Reynolds, Frederick N., to Neider, F. A., Company, The. Trim button. 3,440,693, 4-29-69, Cl. 24-113.
Reynolds, Frederick N.; and Neider, F. A., Company, The. Covered trim button. 3,425,101, 2-4-69, Cl. 24-113.
Reynolds, Frederick W.: *See*—
Meixner, Arthur E.; and Reynolds, Frederick W.,3,453,143.
Reynolds, Frederick W.; and Meixner, Arthur E., to Singer-General Precision, Inc. Photoconductive thin film cell responding to a broad spectral range of light input. 3,447,234, 6-3-69, Cl. 29-572.
Reynolds, George A.: *See*—
Ammons, James William; Mauer, Paul Bernard; Reynolds, George A.; and Van Allan, James A.,3,462,706.
Reynolds, Glenn: *See*—
Zellner, Floyd L., 3,469,919.
Reynolds, Gordon S.; and Pannier, Karl A., Jr., to Le Voy's Inc. Venous pressure monitoring apparatus. 3,435,819, 4-1-69, Cl. 128-2.05
Reynolds, H. P.: *See*—
Barrett, Edward L., 3,464,106.
Reynolds, Harold C.; and Olsen, Donald B., to Armour Pharmaceutical Company. Phosphonium iodide complexes of thyroxine, methods of preparing same, and methods of preparing 3,5,3,'-triiodothyronine therefrom. 3,477,954, 11-11-69, Cl. 260-519.
Reynolds, James T., to Croll-Reynolds Company, Inc. Vacuum cooling apparatus. 3,423,950, 1-28-69, Cl. 62-100.
Reynolds, Jefferson Wayne: *See*—
Hargis, Charles W.; Young, Howard S.; and Reynolds, Jefferson Wayne,3,453,331.
Young, Howard S.; and Reynolds, Jefferson Wayne,3,466,334.
Reynolds, John F.: *See*—
Pool, Stuart D.; and Reynolds, John F.,3,455,502.
Steingas, Richard R.; and Reynolds, John F.,3,452,527.
Reynolds, John M.: *See*—
Hurwitz, Mathew; Reynolds, John M.; and Fahimian, Edward J.,3,423,306.
Reynolds, John Windley, to Cominco Ltd. Reaming bit assembly. 3,469,641, 9-30-69, Cl. 175-389.
Reynolds, Joseph C.: *See*—
Bryan, Harry A.; and Reynolds, Joseph C.,3,437,124.
Reynolds, Kent R.; and Payne, Robert L. Adjustable movable scaffold. 3,429,398, 2-25-69, Cl. 182-13.
Reynolds, Lamar W. Chick vaccination device. 3,434,474, 3-25-69, Cl. 128-253.
Reynolds, Linton C.; Clifford, Alfred T.; Fooshe, Wesley K., Jr.; and Thomson, Stewart M., to Riegel Textile Corporation. Process for producing permanent creases and other desirable properties in textile fabrics. 3,425,856, 2-4-69, Cl. 117-11.
Reynolds, Lionel Arthur, to Tangyes Limited. Hydraulic force exerting apparatus. 3,449,910, 6-17-69, Cl. 60-52.
Reynolds, Louis J., Jr., to Aztec Industries Inc., mesne. Rough surface radiant heater. 3,453,413, 7-1-69, Cl. 219-345.
Reynolds, Marvin G.: *See*—
Carter, Charles G.; and Reynolds, Marvin G.,3,470,830.
Reynolds Metals Company: *See*—
Armbrust, Bernard F., Jr.; and Carithers, Val G., 3,477,865.
Ayer, Ronald M.; and Waldrop, Robert L., 3,425,544.
Baker, Colin, 3,469,952.
Barker, Layle B., 3,420,028.
Becker, William C.; and Boegershausen, Robert L., 3,425,324.
Becker, William C., 3,469,743.
Boice, Elvin G.; and Wong, Lip Fou, 3,429,169.
Branyon, James Curtis; Harshbarger, Allen L.; and Martin, Maxie, 3,477,624.
Brunner, Hans A.; and Whiteman, Benton A., 3,420,465.
Bullough, Vaughn L., 3,457,158.
Bullough, Vaughn L., 3,471,380.
Cannon, David R., 3,435,748.
Caruthers, Willim H., Jr.; and Pennington, Louis E., 3,433,384.
Cassady, Clarence T.; and Bobb, Russell V., 3,457,760.
Collins, Herbert E.; and Holloway, Fred Ward, Jr., 3,425,379.
Compton, David D.; and Harlan, David D., 3,458,109.
Craig, Francis A.; and Albright, Merle L., 3,481,688.
Crane, Donald R., 3,447,428.
Dale, Kenneth Howard, 3,440,111.
Darrow, George Richard, 3,450,606.
Dixon, Charles R., 3,471,677.
Donahue, Gary M., 3,442,421.
Donahue, Gary M., 3,477,632.
Farquhar, Melville T., 3,462,011.
Farquhar, Melville T., 3,462,066.
Featherston, Richard Henry; and Carroll, Silas Edward, 3,440,005.
Fleischman, Frederick R.; and Rutledge, George A., 3,425,339.
Fox, John H., Jr., 3,447,375.
Grosse, Aristid V., 3,437,732.
Hoffler, William B., 3,452,511.
Hrishikesan, Kizhakke Govind, 3,442,606.
Hrishikesan, Kizhakke Govind, 3,445,186.
Hrishikesan, Kizhakke Govind; Kane, James Franklin; Teas, Edward Bruce; and Brown, William Haddon, 3,469,935.
Jacke, Raymond E., 3,435,977.
Jacke, Raymond E., 3,481,527.
Jackson, John Harry; and Schmidt, Walther, 3,477,844.
Jefferys, Henry J., 3,420,505.
Jefferys, Henry J., 3,471,128.
Jenkins, William B., 3,421,676.
Jenkins, William B., 3,421,677.
Johnston, Thomas Joseph, 3,475,314.
Johnston, Thomas Jseph, 3,434,824.
Katzman, Frederick, 3,429,088.
Kellems, Ronald D., 3,442,303.
Kibby, Robert Milton; Marshall, Herbert Charles, Jr.; and Richards, Nolan Earle, 3,471,390.
Kirby, Thomas E., 3,447,675.
Kirby, Thomas E., Jr., 3,442,436.
Kirby, Thomas E., Jr., 3,476,237.
Lewis, Thomas E.; and Lightner, Robert B., 3,420,429.
Lightner, Robert B.; and Whiteman, Benton A., 3,438,124.
Lightner, Robert B., 3,474,370.
Lightner, Robert B.; and Whiteman, Benton A., 3,474,529.
Loehlein, Harold J.; and Curran, Edward E., 3,462,990.
Marshall, Herbert Charles, Jr., 3,438,876.
Moore, Donald C., 3,462,009.
Murphy, Alfred M.; Filak, Carl M.; Long, Thomas P.; and Brown, John A., Jr., 3,475,942.
Navia, Thomas, 3,429,481.
Nolan, William A., 3,420,026.
O'Brien, Paul R., 3,478,560.
Phillips, Bryce W., 3,453,054.
Powell, Fred Harding, 3,433,047.
Price, Herbert K., 3,477,126.
Puster, Louis M., 3,433,389.
Puster, Louis M., 3,460,555.
Revell, Donald H.; and Nolan, William A., 3,441,995.
Roberts, Richard C.; and Kane, James F., 3,469,937.
Schmidt, Richard Lee; and Featherston, Richard Henry, 3,443,992.
Serio, Vincent J., Jr., 3,442,486.
Serio, Vincent J., Jr.; Smith, Gary W.; and Westerlund, Donald R., 3,469,745.
Siemonsen, Frederick A.; and Garriques, Alfred L., 3,462,036.
Trainham, Thomas E., 3,481,691.
Uhrenholdt, Eugene Clifford, 3,420,765.
Uhrenholdt, Eugene Clifford, 3,485,727.

Vancil, Donald Otis; and Harrison, Maurice Clark, 3,457,150.
Vancil, Donald Otis; and Harrison, Maurice Clark, 3,485,579.
Vancil, Donald Otis; and Harrison, Maurice Clark, 3,486,845.
Ward, Bennie R., Jr., 3,425,113.
Watts, Richard M., 3,481,456.
Weber, Otto R., 3,451,587.
Weber, Otto R., 3,451,588.
Whitaker, William C., 3,435,735.
Whiteman, Benton A., 3,430,889.
Whiteman, Benton A., 3,430,890.
Whiteman, Benton A., 3,462,831.
Whiteman, Benton A., 3,463,376.
Whiteman, Benton A., 3,474,983.
Williams, Tom Winfield, 3,442,988.

Reynolds, Perry J., to Huck Manufacturing Company. Swage type fasteners having sealant relief passages in collars. 3,464,472, 9-2-69, Cl. 151-2.

Reynolds, Perry J.; and Orloff, John F., to Huck Manufacturing Company. Combination sealant relief groove in collar. 3,464,306, 9-2-69, Cl. 85-7.

Reynolds Products, Inc.: *See*—
Reynolds, Donald S.; and Krueger, Harvey R., 3,441,176.
Reynolds, Donald S.; Krueger, Harvey R.; and Morgan, Arthur A., 3,443,508.
Reynolds, Donald S.; and Krueger, Harvey R., 3,479,949.

Reynolds, R. J., Tobacco Company: *See*—
Conrad, Lucas J., 3,472,300.
Everhart, John R., 3,485,337.
Hester, Benny Lee, 3,468,416.
McArthur, Colin S., 3,470,884.
McArthur, Colin S., 3,477,441.
McArthur, Colin S., 3,483,970.
McArthur, Colin S., 3,484,582.
McArthur, Colin Shaw, 3,420,243.
McArthur, Colin Shaw; and McKnight, Bruce Wall, 3,426,582.
McArthur, Colin Shaw; and Hester, Benny Lee, 3,426,583.
Payne, Leslie Elmer, 3,485,357.
Pinkham, Jesse R.; Payne, Leslie E.; Michal, David H.; and McArthur, Colin S., 3,456,787.
Pinkham, Jesse R., 3,464,324.
Pinkham, Jesse R.; and Sherrill, Joseph H., 3,464,421.
Rowland, Ralph Lawrence, 3,436,421.
Sherrill, Joseph H., 3,426,503.
Sherrill, Joseph H.; and Pinkham, Jesse R., 3,446,413.
Sherrill, Joseph H.; and Pinkham, Jesse R., 3,481,098.

Reynolds, Reginald John William: *See*—
Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William,3,433,774.
Bamford, Clement Henry; Duncan, Frederic James; and Reynolds, Reginald John William,3,466,182.
Levy, Winifred Jane; Newport, John Prescott; and Reynolds, Reginald John William,3,432,430.

Reynolds Research & Manufacturing Corporation: *See*—
Reynolds, Eldon J., 3,452,827.

Reynolds, Richard P. W.: *See*—
Nerenberg, Robert W.; and Reynolds, Richard P. W.,3,478,868.

Reynolds, Richard Roland, to Eskimo Pie Corporation. Method and apparatus for making ice cream sandwiches. 3,481,282, 12-2-69, Cl. 107-1.

Reynolds, Robert L., to Ford Motor Company. Power transmission control system with temperature compensation. 3,465,614, 9-9-69, Cl. 74-763.

Reynolds, Robert W.: *See*—
Green, Leland D.; Reynolds, Robert W.; and Saeger, Waldemar,3,428,744.
Green, Leland D.; Reynolds, Robert W.; Saeger, Waldemar; and Tanguay, Armand R.,3,448,207.
Jansen, Francis J.; Reynolds, Robert W.; and Shimabukuro, George T.,3,445,587.
Saeger, Waldemar; Reynolds, Robert W.; Green, Leland Dale; Tanguay, Armand R.; and Shimabukuro, George T.,3,432,613.

Reynolds, Rollin A., to Dyna Systems, Inc. Electro-hydraulic control for machine tools. 3,442,485, 5-6-69, Cl. 251-129.

Reynolds, Sydney H.: *See*—
Norrie, Robert C.; and Reynolds, Sydney H.,3,484,852.

Reynolds, Wilbur F.; Ruda, Joseph C.; and Marzani, Bruno W., Jr., to Capitol Records, Inc. Film punch. 3,465,633, 9-9-69, Cl. 83-693.

Reynolds, Zack D.: *See*—
Chesarek, Donald J.; and Reynolds, Zack D.,3,476,973.

Reyrolle, A., & Company Limited: *See*—
Patrickson, John Brian; Davey, Victor Stanley; and Wedepohl, Leonhard Martin, 3,465,208.

Rezner, Peter: *See*—
Sciamonte, Philip A.; and Rezner, Peter,3,468,013.

Reznicek, Frank. Wheel assembly supporting and positioning cart. 3,463,337, 8-26-69, Cl. 214-332.

Reznicek, Kurt: *See*—
Herriott, Donald R.; Jones, Joseph S.; Meeker, Thrygve; and Reznicek, Kurt,3,453,166.

Reznicek, Kurt, to Bell Telephone Laboratories, Incorporated. Lapping machine. 3,457,679, 7-29-69, Cl. 51-35.

Reznicek, Raymond A., to Bendix Corporation, The. Master cylinder malfunction indicator. 3,421,322, 1-14-69, Cl. 60-54.6

Reznicek, Raymond A., to Bendix Corporation, The. Failure indicator for a master cylinder. 3,448,579, 6-10-69, Cl. 60-54.6

Reznicek, Raymond A.; and Chalk, Julian L., to Bendix Corporation, The. Master cylinder boot. 3,426,531, 2-11-69, Cl. 60-54.6

Reznicek, Raymond A.: *See*—
Smith, Donald W.; and Reznicek, Raymond A.,3,473,849.

Reznick, David E.; and Fekete, Ernoe A. Vibration-absorbing base. 3,469,809, 9-30-69, Cl. 248-20.

Rezvyakova, Zoya Nikolaevna: *See*—
Kozlenko, Nikolai Panteleimonovich; and Rezvyakova, Zoya Nikolaevna,3,469,187.

R.F.D. Company Limited: *See*—
Mitchell, Sidney, 3,461,995.

RFL Industries, Inc.: *See*—
Gilbert, Everett A.; and King, George L., 3,440,541.

R F L Industries, Inc.: *See*—
Gilman, Robert J.; and King, George L., 3,470,473.
Seely, Earl S., 3,474,368.

Rhadigan, Clair J.: *See*—
Quaine, Robert L.; Rhadigan, Clair J.; and Rhadigan, Sherwood T.,3,470,700.

Rhadigan, Dorothy: *See*—
Quaine, Robert L.; Rhadigan, Clair J.; and Rhadigan, Sherwood T., 3,470,700.

Rhadigan, Mary: *See*—
Quaine, Robert L.; Rhadigan, Clair J.; and Rhadigan, Sherwood T., 3,470,700.

Rhadigan, Sherwood T.: *See*—
Quaine, Robert L.; Rhadigan, Clair J.; and Rhadigan, Sherwood T.,3,470,700.

Rhash, Dewaine A.: *See*—
Eskridge, Brewster B.; Fisher, Francis J.; Moore, Jackson A.; and Rhash, Dewaine A.,3,461,521.

Rhatican, Cyril R.: *See*—
Walwark, Roger; and Rhatican, Cyril R.,3,453,412.

Rhea, Keith G.: *See*—
Kitchen, Leland G.; and Rhea, Keith G.,3,477,457.

Rheaume, Roland O., to Webster Electric Company, Inc. Overload protection for amplifiers. 3,448,394, 6-3-69, Cl. 330-11.

Rhee, Dong W.: *See*—
Eckenbrecht, Robert Roy; and Rhee, Dong W.,3,445,717.

Rhee, Dong W.; and Wheeler, Robert Charles, to Sylvania Electric Products, Inc. Faulty component protection system. 3,440,481, 4-22-69, Cl. 315-22.

Rheem Manufacturing Company: *See*—
Gerlovich, Albert F., 3,485,207.
Hill, Roy R., 3,425,117.
Klenz, Karl A., 3,446,239.
Mathers, Charles T., 3,460,634.
Moore, Douglas R., 3,484,529.
Phillips, Melville John, 3,466,661.
Shenberger, Robert E., 3,448,736.
Tipper, Maynard J. G., 3,470,673.

Rhees, Raymond C.; and Hammar, Howard N., to American Potash & Chemical Corporation. Process and apparatus for expanding inorganic salts. 3,454,357, 7-8-69, Cl. 23-50.

Rhees, Raymond C.: *See*—
Raisor, Ralph C.; and Rhees, Raymond C.,3,468,630.

Rhein-Chemie, G.m.b.H.: *See*—
Kern, Rudolf; Groppenbacher, Gregor; and Scheurer, Hans, 3,441,525.

Rheinbau G.m.b.H.: *See*—
Wochner, Kurt, 3,426,403.

Rheinberger, Peter, to Balzers Patent-und Lizenz-Anstalt. Process and apparatus for the thermal vaporization of mixtures of substances in a vacuum. 3,485,997, 12-23-69, Cl. 219-121.

Rheinberger, Peter; and Kummerer, Fritz, to Balzers Patent- und Lizenz-Anstalt. Electrically conductive solderable metallic coatings on non-metallic bases. 3,421,937, 1-14-69, Cl. 117-217.

Rheinberger, Vincent P., to Hunt-Pierce Corporation. Winch assembly. 3,466,012, 9-9-69, Cl. 254-134.3

Rheinfelder, William A., to Anaconda Electronics Company. Cable television amplifier powering. 3,435,358, 3-25-69, Cl. 330-22.

Rheinfelder, William A., to Anaconda Electronics Company, mesne. Cable television amplifier gain and tilt control. 3,451,003, 6-17-69, Cl. 330-21.

Rheinfelder, William A., to Anaconda Electronics Company. Tunable R.F. voltmeter for CATY signal level indication. 3,469,190, 9-23-69, Cl. 325-67.

Rheingold, Lawrence M.; and Berlin, Milton, to Templet Industries Incorporated. Electro-erosive method and apparatus for making a die member complemental to a die member of the rule type. 3,445,617, 5-20-69, Cl. 219-69.

Rheingold, Michael; and Debrunner, Jean R. E., to International Standard Electric Corporation. Storage battery charging equipment. 3,470,440, 9-30-69, Cl. 320-25.

Rheinisch-Westfalisches Elektrizitatswerk Aktiengesellschaft: *See—*
Faber, Peter, 3,436,267.
Faber, Peter, 3,476,604.
Rheinische Blattmetall Aktiengesellschaft and Dessau Vetaphone Gesellschaft: *See—*
Bauer, Heinrich; Romgens, Hans; Sontag, Hans-Jurgen; and Zeppelzauer, Franz, 3,451,871.
Rheinische Kalksteinwerke G.m.b.H.: *See—*
Flachsenberg, Paul; Wuherer, Josef; and Stein, Walter, 3,470,005.
Lunau, Wigand, 3,436,675.
Terschanski, Adolf; and Lunau, Wigand, 3,429,437.
Wuhrer, Josef, 3,420,922.
Rheinlander, Paul, to Thermo-Industrie G.m.b.H. & Co. Continuously variable angular speed transmission. 3,427,888, 2-18-69, Cl. 74-55.
Rheinmetall G.m.b.H.: *See—*
Gahle, Walter, 3,424,088.
Germershausen, Raimund, 3,435,769.
Germershausen, Raimund, 3,463,047.
Harnau, Han-Dieter, 3,470,818.
Menneking, Hartmut, 3,425,317.
Ormanns, Gottfried, 3,460,478.
Siebelhoff, Bernd, 3,427,036.
Rheinpreussen Aktiengesellschaft fur Bergbau und Chemie: *See—*
Wollner, Johannes; and Engelhardt, Friedrich, 3,422,148.
Rheinstahl Export Industriealagen GmbH: *See—*
Cronert, Wolfgang, 3,473,793.
Rheinstahl Henschel A.G.: *See—*
Lipsius, Johannes Martin; and Spehr, Eugen, 3,443,528.
Ostermeyer, Jurgen, 3,457,877.
Pfaar, Adam, 3,441,299.
Schallehn, Hans-Georg, 3,479,076.
Rheinstahl Huttenwerke AG: *See—*
Benthake, Henrich; Futterer, Lothar; and Kunnen, Josef, 3,469,656.
Strohmeier, Helmut; and Schmitz, Karl-Heinz, 3,450,298.
Rheinstahl Wanheim G.m.b.H.: *See—*
Koppers, Manfred, 3,426,649.
Wilkenloh, Wilhelm; and Koppers, Manfred, 3,484,071.
Rhine, Jules W.: *See—*
Matthews, Benjamin H.; and Rhine, Jules W.,3,456,230.
Rhinehart, Richard W.; Conn, Henry L.; and Morris, Howard E., to Brown Engineering Company. Aircraft washing system. 3,460,177, 8-12-69, Cl. 15-21.
Rhiner, Walter: *See—*
Neiswander, Robert S.; and Rhiner, Walter,3,466,389.
Rhines, Thomas B., to United Aircraft Corporation. Multi-color printing in a single impression. 3,426,679, 2-11-69, Cl. 101-175.
Rhino, Albert F.: *See—*
Garrett, Howard R.; Rhino, Albert F.; and Olila, Howard E.,3,465,494.
Rhoades, James Paul. Crochet caddy. 3,420,468, 1-7-69, Cl. 242-134.
Rhoades, Lee A.; and Mallard, Manley T., to Rochester Ropes, Inc. Conductive tow cable. 3,482,034, 12-2-69, Cl. 174-102.
Rhoades, Merle C.: *See—*
Kuntz, Louis E.; Hahn, William C.; and Rhoades, Merle C.,3,426,273.
Rhoades, Robert B., to V-M Corporation. Record changer apparatus for recording and reproducing from a magnetic sheet. 3,456,951, 7-22-69, Cl. 274-4.2
Rhoades, Robert B., to V-M Corporation. Record changer apparatus for recording and reproducing from a magnetic sheet. 3,472,516, 10-14-69, Cl. 274-4.
Rhoads, Edwin E., to Pettibone Mulliken Corporation, mesne. Apparatus for manipulating billets and the like. 3,428,199, 2-18-69, Cl. 214-340.
Rhoads, Edwin Egbert, to Pettibone Mulliken Corporation, mesne. Apparatus for manipulating billets and the like. 3,472,397, 10-14-69, Cl. 214-1.
Rhoads, George D.; and Haynie, Robert N., to Federal-Mogul Corporation. Method of making an oil seal. 3,439,407, 4-22-69, Cl. 29-455.
Rhoads, Kenneth A., to Caterpillar Tractor Company. Retaining pin with scissors-like joint. 3,437,003, 4-8-69, Cl. 85-8.3
Rhoads, Kenneth A., to Caterpillar Tractor Company. Cylindrical segmented retaining pin with interlocking surfaces. 3,448,652, 6-10-69, Cl. 85-8.3
Rhoads, Loy D., to Parker Sweeper Company. Reel type rake or sweeper. 3,478,500, 11-18-69, Cl. 56-27.
Rhoads, Martin C., to Nycal Company, Inc., The. Protective system for internal combustion engines. 3,421,489, 1-14-69, Cl. 123-179.
Rhoads, Roger R.: *See—*
Heider, James E.; and Rhoads, Roger R.,3,462,007.
Rhoads, William L.: *See—*
Sibley, Lewis B.; and Rhoads, William L.,3,450,449.
Rhoda, Richard N.; and Vines, Raymond F., to International Nickel Company, Inc., The. Bath and process for platinum and platinum alloys. 3,486,928, 12-30-69, Cl. 117-130.
Rhodes, Alex; and Edwards, John E., to Ford Motor Company. Remote transmission control and parking brake apparatus for automotive vehicles. 3,465,559, 9-9-69, Cl. 70-248.
Rhodes, Arthur J.: *See—*
Rhodes, Arthur J.; and Rhodes, Bernard H., 3,447,420.
Rhodes, Arthur J.; and Rhodes, Bernard H., said Rhodes, Bernard H. assor to Rhodes, Arthur J. Automatic shaper. 3,447,420, 6-3-69, Cl. 90-13.2
Rhodes, B., & Son Limited: *See—*
Wemyss, William Alexander, 3,429,182.
Rhodes, Barry V.: *See—*
Bloxsom, Daniel Edgar, Jr.; and Rhodes, Barry V.,3,479,857.
Rhodes, Barry V. Automatic ball throwing machine. 3,467,073, 9-16-69, Cl. 124-11.
Rhodes, Bernard H.: *See—*
Rhodes, Arthur J.; and Rhodes, Bernard H.,3,447,420.
Rhodes, Cecil: *See—*
Whittaker, Stanley James; and Rhodes, Cecil,3,434,194.
Rhodes, Charles W. Edger attachment for power driven lawn mowers. 3,421,300, 1-14-69, Cl. 56-25.4
Rhodes, David R., to Chevron Research Company. Platinum phosphide fuel cell and method of preparation. 3,449,169, 6-10-69, Cl. 136-86.
Rhodes, Donald F.: *See—*
Mott, William E.; and Rhodes, Donald F.,3,437,808.
Mott, William E.; and Rhodes, Donald F.,3,437,809.
Rhodes, Donald W.; and Wilding, Malcolm W., to United States of America, Atomic Energy Commission. Recovery of mercury from nuclear fuel reprocessing wastes. 3,463,635, 8-26-69, Cl. 75-121.
Rhodes, Eugene E., to Ford Motor Company. Means for forming heat exchange elements. 3,481,173, 12-2-69, Cl. 72-187.
Rhodes, Eugene E.; and Kurz, Alvin M., to Ford Motor Company. Method for forming heat exchange element. 3,433,044, 3-18-69, Cl. 72-186.
Rhodes, Geoffrey Irving, to Procter & Gamble Company, The. Multiple container package. 3,439,841, 4-22-69, Cl. 222-142.5
Rhodes, Jerome H.: *See—*
Chiang, Robert; Evans, Roger A.; and Rhodes, Jerome H.,3,429,861.
Rhodes, John Kenneth: *See—*
Lawrence, Ivan Charles; and Rhodes, John Kenneth,3,463,031.
Rhodes, John Rathbone, to United Kingdom Atomic Energy Authority. X-ray source and measuring means for backscatter analysis of samples. 3,448,264, 6-3-69, Cl. 250-51.5
Rhodes, Keith H., to Walker Manufacturing Company. Altitude compensation throttle positioner. 3,456,632, 7-22-69, Cl. 123-103.
Rhodes, Laddie T.: *See—*
Bean, Edward C.; and Rhodes, Laddie T.,3,429,534.
Rhodes, Melvin H., to Collins Radio Company. Analog multiplier. 3,448,297, 6-3-69, Cl. 307-229.
Rhodes, Patrick D., 1/4 to Keller, Peyton R., and 1/4 to Williamson, John T. Electronic chance indicator device. 3,459,427, 8-5-69, Cl. 273-138.
Rhodes, Richard P., to Esso Research and Engineering Company. Difluoroaminoalkane, prepared by reacting oxygen containing organic compounds with HNF_2 and SO_3. 3,436,419, 4-1-69, Cl. 260-583.
Rhodes, Richard P.; and Frost, Albert C., to Esso Research and Engineering Company. Thermal process for the production of magnesium. 3,475,162, 10-28-69, Cl. 75-67.
Rhodes, William A. Electrochemical chelation and precipitation process for extraction of beryllium from ores. 3,441,405, 4-29-69, Cl. 75-101.
Rhodes, William A. Filament actuated alarm device. 3,450,852, 6-17-69, Cl. 200-61.93
Rhodes, William A., to Escoa Corporation. Electromagnetic combination switch operating means. 3,454,837, 7-8-69, Cl. 317-134.
Rhodes, William E., to Robertshaw Controls Company. Capacitive sensing device for detecting passage of particles. 3,469,157, 9-23-69, Cl. 317-246.
Rhodes, William H., Jr.: *See—*
Leilich, Hans-Otto G.; Rhodes, William H., Jr.; and Shutler, William F.,3,444,531.
Rhodia Inc.: *See—*
Meuly, Walter C.; and Gradeff, Peter S., 3,480,677.
Rhone-Poulenc S.A.: *See—*
Achard, Rene Victor Julien; and Crenne, Noel, 3,437,696.
Baget, Jean Gaston, 3,449,499.
Bazouin, Andre Rene Marcel; and Lefort, Marcel Joseph Celestin, 3,441,584.
Bazouin, Andre Rene Marcel; Dunogues, Jacques Paul; and Lefort, Marcel Joseph Celestin, 3,472,888.
Bichet, Georges; Cruiziat, Paul; Damay, Jean; and Frechet, Pierre Joseph, 3,456,428.
Boesch, Roger; and Metivier, Jean, 3,471,570.
Boissieras, Jean; and Ceyzeriat, Louis Frederic, 3,429,847.
Boissieras, Jean; and Lefort, Marcel, 3,444,225.
Bonnet, Yannik, 3,455,991.
Bonnet, Yannik, 3,468,929.
Bontempelli, Jean Claude; and Garet, Pierre, 3,471,268.
Bosc, Pierre, 3,484,438.

Breant, Claude; Linares, Hubert; and Seibold, Gerard, 3,487,099.
Brossard, Bernard Pierre; Boichard, Jacques; and Gay, Michel Louis Marie Joseph, 3,428,675.
Brunie, Jean Claude; and Crenne, Noel, 3,479,394.
Buzano, Michel, 3,448,501.
Chabardes, Pierre; Gandilhon, Pierre; Thiers, Michel; and Grard, Charles, 3,449,387.
Chabardes, Pierre Jean Antonine; Grard, Charles Camille Dominique; and Thiers, Michel Pierre Francois, 3,444,235.
Chichery, Guy; and Perras, Philippe, 3,448,118.
Chichery, Guy; and Perras, Philippe, 3,481,938.
Christen, Gilbert Paul; and Ruaud, Michel, 3,438,954.
Collardeau, Georges; and Bonin, Yves, 3,484,404.
Colleuille, Yves, 3,450,737.
Conseiller, Yvon; and Maincon, Maurice, 3,465,501.
Conseiller, Yvon Gilbert Marc; and Quiquempois, Andre Jean Arthur, 3,468,954.
de Ratuld, Yves; and Werner, Georges, 3,462,526.
Delaval, Jean Claude; Guinet, Paul Alfred Eugene; and Morel, Jean, 3,439,013.
Dunogues, Jacques Paul; Lefort, Marcel Joseph Celestin; and Puthet, Robert Raphael, 3,445,200.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum, 3,424,748.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum, 3,450,698.
Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum, 3,455,917.
Fauche, Paul Charles; and Lacan, Philippe, 3,428,530.
Fouche, Jean Clement Louis; and Gueremy, Claude Georges Alexandre, 3,455,926.
Fouche, Jean Clement Louis, 3,461,126.
Fouche, Jean Clement Louis, 3,462,436.
Fouche, Jean Clement Louis, 3,476,758.
Fouche, Jean Clement Louis, 3,476,761.
Fouche, Jean Clement Louis, 3,479,356.
Fouche, Jean Clement Louis, 3,480,624.
Frainnet, Emile Eugene; Calas, Raymond Jean; and Colleuille, Yves, 3,440,272.
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael, 3,432,537.
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael, 3,448,135.
Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael, 3,484,469.
Lafont, Pierre Yves Andre; and Menand, Henri Francois, 3,461,154.
Lateltin, Paul Etienne; and Mallet, Maurice Jules Arthur, 3,438,928.
Laulan, Jean Michel, 3,459,578.
Le Pechon, Guy, 3,468,423.
Metivier, Jean; and Sauli, Michel, 3,432,519.
Milbert, Gerard; and Pagni, Georges, 3,467,685.
Ninet, Leon; Renaut, Jacques Albert; and Francois Tissier, Robert Charles, 3,421,980.
Normant, Henri Marie, 3,478,095.
Preau, Nicole Marie, 3,432,522.
Preud'homme, Jean; and Tchelitcheff, Serge, 3,472,930.
Rhoten, Merle L., to Ohio State University, The Board of Trustees of the. High voltage sonic pulse generator. 3,466,473, 9-9-69, Cl. 310-8.7
Rhoten, Merle L.: *See*—
McMaster, Robert C.; Mitchell, Jay P.; and Rhoten, Merle L.,3,466,388.
Rhyme, William M. Sand trap rake. 3,440,810, 4-29-69, Cl. 56-400.01
Rhyme, William M. Turf repair implement. 3,456,737, 7-22-69, Cl. 172-381.
Rhyne, Earl C., Jr., to Dielectric Products Engineering Co., Inc. Converter circuit for regulating voltage by regulation of frequency. 3,461,374, 8-12-69, Cl. 321-18.
Rhyne, Jeff S. Dovetail joint. 3,442,311, 5-6-69, Cl. 144-319.
Rhyne, Johnathan L., 20% each to Rhyne, Paul C., Jr. Rhyne, Joseph M., and Stowe, Charles T., Jr. Yarn of the flake type. 3,447,307, 6-3-69, Cl. 57-139.
Rhyne, Joseph M.: *See*—
Rhyne, Johnathan L., 3,447,307.
Rhyne, Orville T., to RCA Corporation. Hybrid circuit arrangement. 3,479,617, 11-18-69, Cl. 333-11.
Rhyne, Paul C., Jr.: *See*—
Rhyne, Johnathan L., 3,447,307.
Rhyner, Heinz: *See*—
Pfau, Jean; Rhyner, Heinz; and Semon, Georges,3,454,737.
Rhyner, Paul; and Artz, Klaus, to Ciba Limited. Water-insoluble monoazo dyestuffs. 3,438,967, 4-15-69, Cl. 260-207.1
Rhys, David Wade, to International Nickel Company, Inc., The. Compound precious metal article having layer containing iridium or ruthenium. 3,466,158, 9-9-69, Cl. 29-199.
Rhys, David Wade; and Berry, Roy David, to International Nickel Company, Inc., The. Tip of ruthenium metal for soldering iron. 3,427,140, 2-11-69, Cl. 29-199.
Rhys, David Wade; Gainsbury, Peter Edward; and Savage, Ronald, to International Nickel Company, Inc., The. Production of refractory platinum-group metal spheroidal articles. 3,466,165, 9-9-69, Cl. 75-0.5
Riat, Henri; and Hegar, Gert, to Ciba Limited. Monoazo-triazine containing dyestuffs. 3,438,962, 4-15-69, Cl. 260-153.
Riazanow, Jerzy: *See*—
Green, William; and Riazanow, Jerzy,3,463,470.
Ribadier, Georges: *See*—
Faberes, Pierre; and Ribadier, Georges,3,480,824.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine, to Montecatini Edison S.p.A. Process for preparing nitrosyl hydrogen pyrosulfate. 3,436,194, 4-1-69, Cl. 23-357.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine, to Montecatini Edison S.p.A. Process for the preparation of nitrosyl hydrogen pyrosulfate. 3,458,280, 7-29-69, Cl. 23-114.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine, to Societa Edison. Nitrosyl hydrogen pyrosulfate. 3,458,292, 7-29-69, Cl. 23-357.
Ribbentrop, Annemarie: *See*—
Popelak, Alfred; Lettenbauer, Gustav; Schaumann, Wolfgang; and Ribbentrop, Annemarie,3,464,995.
Stach, Kurt; Winter, Werner; Schaumann, Wolfgang; and Ribbentrop, Annemarie,3,454,582.
Ribbing, Sigwid: *See*—
Olson, Per-Erik; Lunden, Nils; and Ribbing, Sigwid,3,442,222.
Ribeiro, Sergio T.; and Ujhelyi, Gabor K., to United States of America, Navy. Electro-optical modulation of radiation pattern using curved electrodes. 3,433,554, 3-18-69, Cl. 350-160.
Ribken, George A. Tracing type game. 3,419,971, 1-7-69, Cl. 35-26.
Ribler, Erich Mathias, to Morat, Franz. Control device for textile machines. 3,472,287, 10-14-69, Cl. 139-319.
Riblet, Henry B.; and Schroader, Irvin H., to United States of America, Navy. Mechanical analog computer for satellite tracking angles. 3,456,350, 7-22-69, Cl. 33-1.
Riblet, Henry J. Self-adjusting scaffold bracket. 3,473,774, 10-21-69, Cl. 248-246.
Riblett, Harry C., Jr., to Bliss, E. W., Company. Aircraft launching system. 3,446,461, 5-27-69, Cl. 244-63.
Ribley, Charles H. Foldable sawbuck. 3,433,277, 3-18-69, Cl. 143-91.
Ricard, Jacques L. Mutant detection device. 3,424,655, 1-28-69, Cl. 195-127.
Ricard, Jacques L.; Graham, Robert D.; and Mothershead, John S., to Research Corporation. Wood preservation process. 3,464,782, 9-2-69, Cl. 21-7.
Ricard, Jean R.: *See*—
Pares Corominas, Juan, 3,484,444.
Ricardi, Leon J.; and Rosenthal, Milton L., to Massachusetts Institute of Technology. Plate antenna with polarization adjustment. 3,478,362, 11-11-69, Cl. 343-769.
Ricateau, Pierre, to Commissariat a l'Energie Atomique. Magnetohydrodynamic accelerator or converter duct for reducing the disadvantages of the hall effect. 3,465,179, 9-2-69, Cl. 310-11.
Ricca, Anthony S. Self-locking screw-threaded element and method of making it. 3,479,675, 11-25-69, Cl. 10-10.
Riccar Sewing Machine Co., Ltd.: *See*—
Kawaguchi, Shinichi, 3,426,711.
Ricci, Anthony J. Method of anodizing aluminum wire. 3,432,407, 3-11-69, Cl. 204-28.
Ricci, John N.: *See*—
Pingitore, Domenick C.; Spagnuolo, Angelo; and Ricci, John N.,3,433,192.
Zober, Walter; Ricci, John N.; and Pingitore, Domenick C.,3,451,057.
Ricciardi, Giuseppe; and Cerutti, Giovanni, to Ing. C., Olivetti, & C., S.p.A. Step by step feeding device for a punched support of a punching or reading apparatus. 3,476,300, 11-4-69, Cl. 226-67.
Ricciardi, Giuseppe; and Sandrone, Bruno, to Ing. C. Olivetti & C., S.p.A. Code translating device for a start-stop teleprinter. 3,450,837, 6-17-69, Cl. 178-23.
Ricciardi, Giuseppe; and Sandrone, Bruno, to Ing. C. Olivetti & C., S.p.a. Mechanical setting and/or reading device for code unit on teleprinters and similar data processing equipments. 3,465,100, 9-2-69, Cl. 178-33.
Ricciardi, Giuseppe; and Sandrone, Bruno, to Ing. C. Olivetti & C., S.p.A. Receiving signal distributor for a high speed teleprinter of the start-stop type. 3,466,393, 9-9-69, Cl. 178-89.
Ricciardi, Giuseppe; and Ukmar, Boris, to Ing. C. Olivetti & C., S.p.A. Storing device for code combination of teleprinters or similar machines. 3,450,835, 6-17-69, Cl. 178-17.5
Ricciardi, Ronald J. Apparatus for conditioning and dispensing particulated material. 3,439,836, 4-22-69, Cl. 222-240.
Ricciardi, Ronald J. Flow indicator for divided solid material provided with indicia responsive photoelectric means. 3,446,979, 5-27-69, Cl. 250-231.

Ricciardi, Ronald J. Material handling equipment. 3,452,904, 7-1-69, Cl. 222n200.
Riccio, Donald R., to General Motors Corporation. Antirotation means. 3,451,736, 6-24-69, Cl. 308-236.
Riccio, Pasquale R., to Scovill Manufacturing Company. Head for filling aerosol containers. 3,459,244, 8-5-69, Cl. 141-20.
Rice, Archie H.; Culp, Gordon L.; Conley, Walter R., Jr.; and Hansen, Sigurd P., to Neptune Microfloc Incorporated. Method and apparatus for separation of solids from liquids. 3,482,694, 12-9-69, Cl. 210-73.
Rice, Archie H.: *See*—
Hansen, Sigurd P.; Botsford, Charles W.; Rice, Archie H.; and Conley, Walter R., Jr.,3,482,695.
Rice Barton Corporation: *See*—
Ford, Frank Peter; and Bassett, Kirk Walter, 3,460,775.
Reitzel, Nicolas M., 3,461,031.
Rice, Billy D.; and Stadig, William P., to Petro-Tex Chemical Corporation. Process for producing polyolefin polymers. 3,461,110, 8-12-69, Cl. 260-93.7
Rice, Buford P. Railcar wheel stop. 3,420,190, 1-7-69, Cl. 104-258.
Rice, Charles F.; and Kimtantas, Charles. Combination conference connection and call transfer device for telephone subscriber lines. 3,470,322, 9-30-69, Cl. 179-1.
Rice, Charles K.; and Whittier, James Y., to United Aircraft Corporation. Reactor seal incorporating a slit orifice. 3,453,986, 7-8-69, Cl. 118-48.
Rice, Charles M.: *See*—
Bowers, Virginia S.; Breazeale, Francis B.; and Rice, Charles M.,3,435,607.
Rice, Charles M., to American Enka Corporation. Process and apparatus for producing torque in synthetic filaments, fibers and yarns. 3,435,603, 4-1-69, Cl. 57-34.
Rice, Christopher R., to Polaroid Corporation. Photographic shutter. 3,429,247, 2-25-69, Cl. 95-61.
Rice, Christopher R., to Polaroid Corporation. Molded plastic bellows. 3,437,025, 4-8-69, Cl. 95-39.
Rice, Christopher R., to Polaroid Corporation. Configuration on molded bellows. 3,447,439, 6-3-69, Cl. 95-39.
Rice, Dale W.: *See*—
Herczog, Andrew; and Rice, Dale W.,3,485,613.
Rice, David E., to Minnesota Mining and Manufacturing Company. Process for preparing carboxy terminated copolymers. 3,457,245, 7-22-69, Cl. 260-87.7
Rice, David E., to Minnesota Mining and Manufacturing Company. Bis(τ-substituted perfluoroacyl) peroxides. 3,461,155, 8-12-69, Cl. 260-479.
Rice, David E.; and Sandberg, Carl L., to Minnesota Mining and Manufacturing Company. Carboxy and ester terminated copolymers of vinylidene fluoride-hexafluoropropene and method of preparation. 3,438,953, 4-15-69, Cl. 260-87.7
Rice, Donald W.: *See*—
Kretzmer, Ernest R.; Mecklenburg, Paul; Rice, Donald W.; and Ryan, William,3,421,149.
Rice, Doris M., to Jefferson Chemical Company, Inc. Semiflexible polyurethane foam prepared in absence of surfactant. 3,467,606, 9-16-69, Cl. 260-2.5
Rice, Duane N.: *See*—
Walker, Donald F.; Rice, Duane N.; Crowson, David H.; and Vachon, Reginald I.,3,470,873.
Rice, Edward K., to Ladenburg, Thalmann & Co., mesne. Building structure and means and method of its manufacture. 3,455,074, 7-15-69, Cl. 52-223.
Rice, Edward K.; and Cureton, William E., to Stressed Pipe Research Ltd., mesne. Self-stressed concrete pipe and method of manufacture. 3,467,144, 9-16-69, Cl. 138-176.
Rice, Edwin E.: *See*—
Geen, Henry C.; and Rice, Edwin E.,3,475,229.
Vinton, Clarence S.; and Rice, Edwin E.,3,456,047.
Rice Engineering & Operating, Inc.: *See*—
Routh, Benjamin I., 3,482,007.
Rice, George B.; and Dow, Robert L., to United States of America, Navy. Process for desensitizing metallic powders. 3,420,695, 1-7-69, Cl. 117-100.
Rice, Harold W.: *See*—
Body, William K.; Locascio, Russell J.; Rice, Harold W.; and Scott, Douglas R.,3,442,448.
Golden, Robert L.; Wantz, Clarence; Rice, Harold W.; Beck, Roland D.; and Palmer, Reed A.,3,428,768.
Rice, Herbert C. Safety seat belt anchorage. 3,429,613, 2-25-69, Cl. 297-386.
Rice, Herbert C. Passenger restraining system. 3,447,833, 6-3-69, Cl. 297-386.
Rice, Herbert C., to Midland Adhesive and Chemical Corporation. Safety bracket for vehicle seat adjusters. 3,473,775, 10-21-69, Cl. 248-399.
Rice, James D., to Genesco, Inc. Shoe fitting. 3,432,928, 3-18-69, Cl. 33-3.
Rice, Kenneth G.: *See*—
Bohn, Martin C.; Brady, John F.; Spinello, John O.; and Rice, Kenneth G.,3,433,341.
Rice, Leonard M.; and Grogan, Charles H., to Geschickter Fund for Medical Research, Inc. Trifluoromethylazaspiranes and azaspirane diones. 3,432,499, 3-11-69, Cl. 260-247.5
Rice, Orval L.., to General Signal Corporation. Hydraulic power circuit affording parallel regeneration paths. 3,477,347, 11-11-69, Cl. 91-438.
Rice, Philip J., to Stanford Research Institute. Light addressed matrix printer. 3,466,657, 9-9-69, Cl. 346-74.
Rice, Richard E., to Comstock & Wescott, Inc. Vapor generator. 3,459,160, 8-5-69, Cl. 122-32.
Rice, Richard E., to Comstock & Wescott, Inc. Die for hot-pressing powdered metal. 3,461,506, 8-19-69, Cl. 18-47.
Rice, Richard E., to Comstock & Wescott, Inc. Die for hot-pressing powdered metal. 3,461,507, 8-19-69, Cl. 18-47.
Rice, Richard E.; and Whitney, William E., to Hooker Chemical Corporation, mesne. Configuration of sealed heat storage modules. 3,464,486, 9-2-69, Cl. 165-1.
Rice, Rip G.: *See*—
Maselli, James M.; and Rice, Rip G.,3,449,288.
Rice, Robert M., to McInnis Conveyors Limited. Conveyor multiple station control. 3,457,875, 7-29-69, Cl. 104-88.
Rice, Roger A., to Caterpillar Tractor Company. Means to provide temporary firm support for a resiliently supported earthmoving machine. 3,450,418, 6-17-69, Cl. 280-489.
Rice, Roger A.: *See*—
Jessen, Henry J.; Junck, John A.; and Rice, Roger A.,3,449,845.
Junck, John A.; and Rice, Roger A.,3,430,657.
Rice, Russell E., to International Harvester Company. Rotary cultivator. 3,435,904, 4-1-69, Cl. 172-556.
Rice, Stephen O.: *See*—
Hochgraf, Lester; and Rice, Stephen O.,3,423,535.
Rice, Verner K., to Automatic Electric Laboratories, Inc. Electrically alterable memory system having automatic rewrite. 3,436,746, 4-1-69, Cl. 340-174.
Rice, Willard W., Jr., to Foxboro Company, The. Means for error correction. 3,448,393, 6-3-69, Cl. 330-9.
Rice, William E.: *See*—
Koch, Kenneth M.; and Rice, William E.,3,437,333.
Rich, Anthony J.; and Novak, John S., to Rich Engineering Inc. Information storage and playback system. 3,426,339, 2-4-69, Cl. 340-174.1
Rich, Edward L., III. Printed circuit inductor. 3,484,731, 12-16-69, Cl. 336-200.
Rich, Elvis, to Esso Production Research Company. Gas lift system. 3,482,526, 12-9-69, Cl. 103-234.
Rich, Elwin F.: *See*—
Berve, Orven M.; and Rich, Elwin F.,3,476,913.
Rich Engineering Inc.: *See*—
Rich, Anthony J.; and Novak, John S., 3,426,339.
Rich, Ernest J., Jr.: *See*—
Kronenthal, Richard L.; and Rich, Ernest J., Jr.,3,478,140.
Rich, Joe G. Rotary internal combustion engine. 3,450,108, 6-17-69, Cl. 123-16.
Rich, John Parker,, to Improved Machinery Inc. Continuous digester with multiple column discharger. 3,434,921, 3-25-69, Cl. 162-237.
Rich, John P.; and Carlsmith, Lawrence Allan, to Improved Machinery Inc. Pipeline thickener. 3,452,875, 7-1-69, Cl. 210-392.
Rich, Joseph A., to General Electric Company. High current vacuum gap devices. 3,471,733, 10-7-69, Cl. 313-217.
Rich, Joseph A., to General Electric Company. Periodic electrode structure for vacuum gap devices. 3,471,734, 10-7-69, Cl. 313-217.
Rich, Joseph A., to General Electric Company. Vacuum gap devices with helicoidal electrode structure. 3,471,736, 10-7-69, Cl. 313-231.
Rich, Joseph A., to General Electric Company. Stabilized vacuum gap device with elementary electrode structure. 3,480,821, 11-25-69, Cl. 313-148.
Rich, Joseph G.; and Rich, Robert S., to Vogt, Henry, Machine Company, Inc. High temperature and high pressure steam generator. 3,443,548, 5-13-69, Cl. 122-32.
Rich, Leonard G., to Gerber Scientific Instrument Company, The. Solid state matrix for display system or the like. 3,461,344, 8-12-69, Cl. 315-169.
Rich, Robert S.: *See*—
Rich, Joseph G.; and Rich, Robert S.,3,443,548.
Rich, Theodore A.; Groves, James N.; and Skala, George F., to General Electric Company. Bacterial detection. 3,458,284, 7-29-69, Cl. 23-230.
Rich, Warren E. Door controlling device. 3,422,573, 1-21-69, Cl. 49-340.
Rich, Warren L., Jr. Method of forming a hairpiece. 3,421,521, 1-14-69, Cl. 132-5.
Rich, William W., to Du Pont de Nemours, E. I., and Company. Sequential batch manufacture of tetramethyl lead. 3,440,256, 4-22-69, Cl. 260-437.
Richard, Claude: *See*—
Rerolle, Paul; and Richard, Claude,3,423,282.
Richard, Donald: *See*—
Kaufmann, Robert H.; Richard, Donald; and Wily, John L.,3,425,315.

Richard, Edgar J.: *See—*
Belanger, Paul J.; and Richard, Edgar J.,3,471,609.
Richard, Eugene D., to United States of America, Army. All-metal seal and thermal switch. 3,431,528, 3-4-69, Cl. 337-414.
Richard, Gordon L., to Honeywell, Inc. Control apparatus. 3,428,789, 2-18-69, Cl. 235-150.25
Richard, Jean: *See—*
Arnaudon, Michel; and Richard, Jean,3,451,318.
Richard, Joseph D. Delayed release device. 3,426,472, 2-11-69, Cl. 43-100.
Richard, Joseph D. Expendable ocean bottom sensor. 3,455,151, 7-15-69, Cl. 73-84.
Richard, Kenneth D.: *See—*
Brooks, Alden W.; Bishop, Clinton L.; Thomas, James R.; and Richard, Kenneth D.,3,464,875.
Richard, Marc: *See—*
Lafon, Jean-Claude; and Richard, Marc,3,458,669.
Richard, Maurice: *See—*
Philippot, Rene; and Richard, Maurice,3,443,848.
Richard Metals Corporation: *See—*
Pettit, Frank, 3,479,123.
Richards, Alan W.: *See—*
Lee, William H.; and Richards, Alan W.,3,426,260.
Richards, Alan W., to Harris-Intertype Corporation. Printing press. 3,477,367, 11-11-69, Cl. 101-137.
Richards, Albert M.: *See—*
Kuether, Frederick W.; and Richards, Albert M.,3,438,253.
Richards, Claude L.; Cartwright, John A.; and Pearce, Graham, to Painton & Company Limited. Electrical connectors for ribbon conductors of cable tape. 3,432,799, 3-11-69, Cl. 339-99.
Richards, Clement John, to Plessey Company Limited, The. Aerial systems. 3,486,053, 12-23-69, Cl. 310-166.
Richards, D. Carl: *See—*
Cassling, Carl E., 3,423,764.
Richards, Edward E., III: *See—*
Jasorka, Larry P.; and Richards, Edward E., III,3,440,531.
Richards, Edward Gordon: *See—*
Fletcher, Alfred John; and Richards, Edward Gordon,3,466,171.
Richards, Edward Gordon; Ward, David Marshall; Hales, Keith John; and Stephenson, Norman, to International Nickel Company, Inc., The. Welded articles and alloys containing hafnium and nickel. 3,479,157, 11-18-69, Cl. 29-194.
Richards, Edwin Robinson, to Koppers Company, Inc. Apparatus for preheating scrap metal. 3,439,909, 4-22-69, Cl. 266-27.
Richards, Frank A., to British Aircraft Corporation Limited. Plural modulation of radio frequency carrier wave for remote missile control systems. 3,450,373, 6-17-69, Cl. 244-3.14
Richards, Gary E.: *See—*
Beatenbough, Paul K.; and Richards, Gary E.,3,476,018.
Richards, George B., to Liquid Controls Corporation. Combined air eliminator and vacuum breaker. 3,437,104, 4-8-69, Cl. 137-202.
Richards, George B. Actuator mechanism. 3,467,139, 9-16-69, Cl. 137-625.48
Richards, Gerald P., to Radio Corporation of America. Digital television data compression system. 3,435,134, 3-25-69, Cl. 178-6.
Richards, Harry F., to Shell Oil Company. Thermosetting interpolymers. 3,459,700, 8-5-69, Cl. 260-33.6
Richards, Homer: *See—*
Driscoll, Tommy; and Richards, Homer,3,431,898.
Richards, James H., to Betz Laboratories, Inc. Reduced fouling of steam turbines by treatment with sulfur containing compounds. 3,422,022, 1-14-69, Cl. 252-181.
Richards, John Harvey; and Castle, John Frederick, to Metallurgical Processes Limited, and Imperial Smelting Corporation(N.S.C.) Limited. Sulphur infusion of molten metal. 3,462,264, 8-19-69, Cl. 75-78.
Richards, Joseph A., to Veeder Industries, Inc. Single wheel counter circuit. 3,445,636, 5-20-69, Cl. 235-92.
Richards, Leighton B.: *See—*
Rivin, Donald; Aron, Jerome; and Richards, Leighton B.,3,442,679.
Richards, Lewis B.: *See—*
Sturges, Richard A.; and Richards, Lewis B.,3,426,478.
Richards, Lorenzo A. Membranc-shield for soil hygrometer. 3,430,486, 3-4-69, Cl. 73-73.
Richards, Louis P. Stringed musical instrument. 3,443,467, 5-13-69, Cl. 84-307.
Richards, Louis R.; and Holly, Harry H., to Hollymatic Corporation. Molding apparatus. 3,486,186, 12-30-69, Cl. 17-32.
Richards Manufacturing Company, Inc.: *See—*
Treace, Harry T., 3,463,148.
Richards, Marshall, Machine Company Limited: *See—*
Richards, Samuel Hugh, 3,459,024.
Richards, Samuel Hugh; and Benson, Norman D., 3,462,992.
Richards, Nolan Earle: *See—*
Kibby, Robert Milton; Marshall, Herbert Charles, Jr.; and Richards, Nolan Earle,3,471,390.
Richards, Paul L.; and Smith, George E., to Bell Telephone Laboratories, Incorporated. Infrared modulator magnetically biased to cyclotron resonance condition. 3,436,545, 4-1-69, Cl. 250-199.
Richards, Philip C.: *See—*
Kirby, Ralph W.; and Richards, Philip C.,3,479,467.
Richards, Powell; and Baranosky, James, to United States of America, Atomic Energy Commission. Technetium-99m labeled chelates. 3,466,361, 9-9-69, Cl. 424-1.
Richards, Raymond S., to Owens-Illinois, Inc. Composite metal article with a platinum coating. 3,432,278, 3-11-69, Cl. 29-183.5
Richards, Raymond S.; and St. John, Douglass F., to Owens-Illinois,Inc. Method and apparatus for heating rollers. 3,423,573, 1-21-69, Cl. 219-469.
Richards, Richard K. Cryotron. 3,437,846, 4-8-69, Cl. 307-306.
Richards, Rivelin E. Assembly of lettering and the like. 3,440,746, 4-29-69, Cl. 40-125.
Richards, Samuel Hugh, to Richards, Marshall, Machine Company Limited. Multi-hole wire-drawing machine and a method of threading up the same. 3,459,024, 8-5-69, Cl. 72-289.
Richards, Samuel Hugh; and Benson, Norman D., to Richards, Marshall, Machine Company Limited. Tube drawing machines. 3,462,992, 8-26-69, Cl. 72-280.
Richards, Sterling J., to University of California, The Regents of the. Porous block for conserving soil moisture. 3,439,450, 4-22-69, Cl. 47-9.
Richardson, Al E.: *See—*
Moore, George E.; and Richardson, Al E.,3,426,837.
Richardson, Albert S., Jr., to Sandamp Systems, Inc. Means for damping vibrations of power transmission lines. 3,440,328, 4-22-69, Cl. 174-42.
Richardson, Alfred W., to United States of America, Navy. Cardiac output meter. 3,478,588, 11-18-69, Cl. 73-362.
Richardson, Arthur W., to Karma (New Maldeno) Limited. Safety devices for liquid fuel heaters. 3,420,612, 1-7-69, Cl. 431-33.
Richardson, Berkley Lee: *See—*
Fishburne, Francis B.; and Richardson, Berkley Lee,3,425,465.
Richardson, Charles A., to Blandin Paper Company. Paper coating composition. 3,480,455, 11-25-69, Cl. 106-137.
Richardson, Cletus. Panel wall system. 3,423,894, 1-28-69, Cl. 52-241.
Richardson Company, The: *See—*
Broadhead, Ronald.; and Dunlop, William R., 3,463,699.
Broadhead, Ronald L.; and Dunlop, William R., 3,422,041.
Broadhead, Ronald L.; and Dunlop, William R., 3,441,527.
Broadhead, Ronald L.; and Timmons, Frederick D., 3,448,154.
Hedman, Edward A.; and Hubbard, Bruce W., Jr., 3,422,080.
Mather, Selwyn R., 3,422,052.
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,461,099.
Ronay, Thomas E.; and Dexheimer, Robert D., 3,441,544.
Shore, Samuel; Muzyczko, Thaddeus; and Martin, Jerome A., 3,426,081.
Stone, Leslie F., 3,430,766.
Richardson, David A.; and Olsen, Everett O., to Foxboro Company, The. Solid state process controller providing time- variant effects. 3,467,874, 9-16-69, Cl. 328-1.
Richardson, David L.: *See—*
Comstock, Daniel F., Jr.; and Richardson, David L.,3,439,985.
Richardson, David L. Leak indicating dust cap for pneumatic tires. 3,452,708, 7-1-69, Cl. 116-34.
Richardson, Dean E.; and Harkreader, Gordon G., to Union Carbide Corporation. Preparation of low molecular weight vinyl chloride polymers. 3,459,719, 8-5-69, Cl. 260-87.1
Richardson, Donald Arthur; and Waters, John Robert, to Pilkington Brothers Limited. Reflecting road beacons. 3,466,985, 9-16-69, Cl. 94-1.5
Richardson, Edwin A., to Shell Oil Company. Electroless metal bonding of unconsolidated formations into consolidated formations. 3,438,440, 4-15-69, Cl. 166-292.
Richardson, Edwin A., to Shell Oil Company. Electroless metal bonding of unconsolidated formations into consolidated formations. 3,438,441, 4-15-69, Cl. 166-292.
Richardson, Edwin A.: *See—*
Methven, Norbert E.; and Richardson, Edwin A.,3,428,122.
Richardson, Ernest T. Flange protector. 3,463,196, 8-26-69, Cl. 138-96.
Richardson, Ezra B. Combination boat and trailer. 3,436,773, 4-8-69, Cl. 9-1.
Richardson, Gary H.; and Cornwell, Edmund H., to Swift & Company. Apparatus for the continuous production of cheese curd. 3,482,507, 12-9-69, Cl. 99-243.
Richardson, Hal R.; and Howald, Arthur M., to Soo Valley Company. Fishing line. 3,486,266, 12-30-69, Cl. 43-44.98
Richardson, Harry L., to Chemical Construction Corporation. Continuous vacuum degassing of liquids. 3,457,064, 7-22-69, Cl. 75-49.
Richardson, Harry L.: *See—*
Lohner, Louis A.; Middleton, William B.; and Richardson, Harry L.,3,471,138.
Richardson, Henry John, to Alluvial Mining and Shaft Sinking Company Limited, mesne. Alluvial prospecting units. 3,486,570, 12-30-69, Cl. 175-5.

327-709 O-LT - 71 - pt. 1 - 83

Richardson, Howard Eugene; and Hardisty, John A. Rapid ignition charcoal briquette. 3,485,599, 12-23-69, Cl. 44-17.
Richardson, Jacob C.: *See—*
Bernard, Hugh A.; Daigle, Edwin E.; and Richardson, Jacob C.,3,438,452.
Richardson, James I.: *See—*
Kolb, Edwin R.; Richardson, James I.; and Hunstiger, Francis,3,435,309.
Richardson, James T.; and Toups, Stanford S., to Esso Research and Engineering Company. Method to measure and control the catalytic activity of metallic catalyst systems. 3,477,018, 11-4-69, Cl. 324-34.
Richardson, John R., to General Electric Company. Thin-film storage diode with tellurium counterelectrode. 3,480,843, 11-25-69, Cl. 317-234.
Richardson, Joseph T. Envelope for cancelled bank checks. 3,436,009, 4-1-69, Cl. 229-71.
Richardson, Joseph W.; and Woodhouse, Dal C. Cleaning device for eyeglasses. 3,480,022, 11-25-69, Cl. 134-112.
Richardson, Kenneth W.: *See—*
Darr, Donald E.; Leiser, Roger S.; Loehr, Clifford E.; and Richardson, Kenneth W.,3,423,186.
Rahn, Henry W.; and Richardson, Kenneth W.,3,475,258.
Richardson, Leslie Frederick; and Parnell, David Harding, to Bristol Siddeley Engines Limited. Liquid fuel combustion apparatus for gas turbine engines. 3,430,443, 3-4-69, Cl. 60-39.65
Richardson, Lonnie J., to Oak Electro/Netics Corporation. Rotary cam actuated switch operating plate in a high current switching device. 3,459,903, 8-5-69, Cl. 200-6.
Richardson, Lyman Elmer, to T-Scan Limited. Apparatus for transmission of data. 3,484,587, 12-16-69, Cl. 235-61.11
Richardson, Norman T.; and Small, Francis H., to Union Carbide Corporation. Process for producing trialkoxyaluminum compounds. 3,455,978, 7-15-69, Cl. 260-448.
Richardson, Philip, to Parsons, C. A., & Company Limited. Liquid cooled rotors for dynamo-electric machines. 3,487,242, 12-30-69, Cl. 310-53.
Richardson, Philip; and Young, Norman, to Parsons, C. A., & Company Limited. Multi-phase alternating current generator having output winding phase displacement and compensating transformers. 3,430,126, 2-25-69, Cl. 322-90.
Richardson, Pierce F., to International Harvester Company. Weight transfer system. 3,430,984, 3-4-69, Cl. 280-405.
Richardson, Robert W., to Eaton Yale & Towne, Inc. Safety device. 3,476,403, 11-4-69, Cl. 280-150.
Richardson, Rolland A., to Pacific Press & Shear Corp. Decompression system for press brakes or the like. 3,464,320, 9-2-69, Cl. 91-420.
Richardson, Ronald E., to PPG Industries, Inc. Method of and apparatus for press bending vertically suspended glass sheets. 3,450,517, 6-17-69, Cl. 65-106.
Richardson, Ronald E., to PPG Industries, Inc. Adjustable guillotine and table for severing sheet plastic. 3,455,197, 7-15-69, Cl. 83-467.
Richardson, Suvella: *See—*
Adams, Leonard, Jr.; and Richardson, Suvella,3,460,738.
Richardson, Thomas W. G.; Johnson, Glenn D.; and Hemphill, Dean P., to Shell Oil Company. Method for laying underwater pipeline. 3,431,739, 3-11-69, Cl. 61-72.3
Richardson, Truman R.: *See—*
Hawkins, Cyril M.; and Richardson, Truman R.,3,422,703.
Hawkins, Cyril M.; and Richardson, Truman R.,3,430,522.
Richardson, William D., to Tuthill Pump Company. Self-sealing test plug. 3,422,980, 1-21-69, Cl. 220-25.
Richardson, William P., to Empire Brushes, Inc. Swivel handle connector for household utensils. 3,420,581, 1-7-69, Cl. 306-11.
Richardson-Merrell Inc.: *See—*
Grisar, Johann Martin; and Hudak, William J., 3,439,034.
Grisar, Johann Martin; and Hudak, William J., 3,439,035.
Hallerbach, Dieter, 3,450,252.
Monsimer, Harold G.; and Grous, Philip P., 3,459,768.
Palopoli, Frank P.; Micucci, Dominic Donald; and Rosenstock, Paul D., 3,440,274.
Petraglia, Annmaric G., 3,444,091.
Roberts, Edward M.; Claxton, George P.; and Fallon, Frances G., 3,481,929.
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M., 3,439,000.
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M., 3,442,913.
Richart, Douglas Stephen, to Polymer Corporation, The. Comminution process. 3,453,221, 7-1-69, Cl. 260-2.5
Richbourg, James M., to Bevis Industries Inc. Differential drive mechanism for tentering machine. 3,430,310, 3-4-69, Cl. 26-57.
Richel, John C., to Allegheny Ludlum Steel Corporation. Shearing device. 3,426,634, 2-11-69, Cl. 83-355.
Richens, Charles. Irrigation valve. 3,479,826, 11-25-69, Cl. 61-22.
Richer, Benjamin F.; and Charlton, Thomas, to Westinghouse Electric Corporation. Concentric coil windings for three-speed single-phase induction motor stator. 3,470,407, 9-30-69, Cl. 310-166.
Richer, Donald R., to Granite State Machine Company, Inc. Edge finder. 3,470,618, 10-7-69, Cl. 33-169.
Richerd, Jacques: *See—*
Portes, Pierre J. H. L.; Richerd, Jacques; and Mas, Robert,3,437,565.
Richert, Walter J., to American Machine & Foundry Company. Magnetic latch relay. 3,470,510, 9-30-69, Cl. 335-230.
Richey, Clarence B., to Massey-Ferguson Inc. Turnover plow. 3,428,135, 2-18-69, Cl. 172-225.
Richey, Clarence B., to Massey-Ferguson, Inc. Scarifying and scraping implement. 3,430,703, 3-4-69, Cl. 172-136.
Richey, Clarence B., to Massey-Ferguson, Inc. Land leveling implement. 3,430,705, 3-4-69, Cl. 172-780.
Richey, Clarence B., to Massey-Ferguson Inc. Transport attachment for implements. 3,460,630, 8-12-69, Cl. 172-240.
Richey, Clarence B., to Massey-Ferguson Inc. Flexible offset disc harrow. 3,460,632, 8-12-69, Cl. 172-596.
Richey, Clarence B., to Massey-Ferguson Inc. Semi-mounted plow. 3,477,517, 11-11-69, Cl. 172-212.
Richey, Clarence B.; and Kramer, Richard W., to Massey-Ferguson Inc. Disc scraper. 3,438,448, 4-15-69, Cl. 172-558.
Richey, Clarence B.; and Kramer, Richard W., to Massey-Ferguson Inc. Scarifier tooth keeper. 3,460,633, 8-12-69, Cl. 172-691.
Richey, Clarence B.; and Rasmussen, Ronald E., to Massey-Ferguson Inc. Convertible category implement tractor hitch. 3,472,528, 10-14-69, Cl. 280-415.
Richey, Reed W. Mobile wall unit. 3,434,249, 3-25-69, Cl. 52-1.
Richez, Jacques; Dubois, Andre; Battentier, Jean-Claude; Thoris, Jean; and Parizot, Daniel, to Compagnie Generale d'Electricite. Combustion generator. 3,475,627, 10-28-69, Cl. 310-11.
Richgels, Eugene, to Kaplan Paper Box Co. One-piece collapsible book-type box. 3,478,949, 11-18-69, Cl. 229-31.
Richheimer, Ralph, to Burton Parsons Chemicals, Inc. Self-mixing anticoagulant composition. 3,444,093, 5-13-69, Cl. 252-380.
Richie, Carlton A., to Owens-Illinois, Inc. Container closure having integral strip opening means. 3,465,910, 9-9-69, Cl. 220-54.
Richie, Carlton A., to Owens-Illinois, Inc. Apparatus for extruding foamable plastic materials in tubular form. 3,466,705, 9-16-69, Cl. 18-14.
Richier: *See—*
Durand, Pierre, 3,423,033.
Durand, Pierre, 3,433,368.
Durand, Pierre, 3,466,723.
Richlin, Milton, to Olivetti Underwood Corporation. Pressure-sensitive, ink-transfer articles and process for preparing same. 3,441,425, 4-29-69, Cl. 117-36.1
Richman, Bruce: *See—*
Blank, Robert J.; Friedman, Charles M.; and Richman, Bruce,3,472,493.
Richman, Donald, to Hazeltine Research, Inc. Signal transmitting and receiving system. 3,427,617, 2-11-69, Cl. 343-17.2
Richman, John A., Jr.: *See—*
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr.,3,458,635.
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr.,3,479,370.
Richman, Peter L., to Weston Instruments, Inc. Thermal RMS converter with feedback to control operating point. 3,435,319, 3-25-69, Cl. 321-1.5
Richman, Peter L., to Weston Instruments, Inc. Attenuators having constant output resistance. 3,453,529, 7-1-69, Cl. 323-79.
Richman, Peter L., to Weston Instruments, Inc. R.M.S. to D.C. converter for periodic signals. 3,470,445, 9-30-69, Cl. 321-1.5
Richman, Peter L., to Weston Instruments, Inc. Parallel operational rectifiers. 3,480,794, 11-25-69, Cl. 307-229.
Richman, Peter L., to Weston Instruments, Inc. Thermal RMS limiter and semiconductor driving circuit means. 3,480,835, 11-25-69, Cl. 317-41.
Richman, Peter L., to Weston Instruments, Inc. Power to DC converter. 3,486,014, 12-23-69, Cl. 235-151.31
Richmond, Alvin: *See—*
Funk, Andrew B.; Legal, Casimer C., Jr.; and Richmond, Alvin,3,421,879.
Legal, Casimer C., Jr.; Richmond, Alvin; and Bruno, Anthony J., Jr.,3,433,617.
Richmond, Frank C.,: *See—*
Morris, William Whitby, 3,482,807.
Richmond, Freddie M.: *See—*
Card, Joseph Lewis; Passons, William Erby; and Richmond, Freddie M.,3,486,780.
Richmond, Fredericksburg and Potomac Railroad Company: *See—*
Garner, Elmer, 3,456,758.
Richmond, George E. Tooth polisher with pumice seal. 3,436,830, 4-8-69, Cl. 32-59.
Richmond, George E. Tooth cleaning tool. 3,478,433, 11-18-69, Cl. 32-59.
Richmond, Irving D., to United Aircraft Corporation. Range gated integrator. 3,480,959, 11-25-69, Cl. 343-17.1
Richmond, James W.: *See—*
Jepson, Ivar; Morgan, John W.; and Richmond, James W.,3,429,118.

Richmond, James W., to Sunbeam Corporation. Alarm control. 3,485,031, 12-23-69, Cl. 58-22.5

Richmond, James W.; and Scott, Donald R., to Sunbeam Corporation. Electric clock. 3,433,010, 3-18-69, Cl. 58-53.

Richmond, John; and Conn, Arnold, to International Rectifier Corporation. High voltage rectifier stack assembly having centrally supported capacitor. 3,422,340, 1-14-69, Cl. 321-11.

Richmond, Kenneth D., to Dayco Corporation. Method of making a transmission toothed belt. 3,473,989, 10-21-69, Cl. 156-138.

Richmond, Kenneth D.: *See—*
Waugh, Dale L.; Brooks, Alden W.; Jensen, Howard J.; and Richmond, Kenneth D.,3,478,613.

Richmond, Martin R., to Sanders Associates, Inc. Signal identification apparatus. 3,422,432, 1-14-69, Cl. 343-17.1

Richmond, Moscow K. Door operator. 3,471,971, 10-14-69, Cl. 49-199.

Richmond Research Corporation: *See—*
Herman, Raymond, 3,478,944.

Richmond, Richard C.; and Ogushi, Hisashi H., to Hughes Aircraft Company. Interlocking means for a multiprocessor system. 3,469,239, 9-23-69, Cl. 340-172.5

Richmond, Robert S., to Perkin-Elmer Corporation, The. Liquid sampling. 3,468,635, 9-23-69, Cl. 23-230.

Richmond, Roy H., Jr., to Eagle Manufacturing Company. Storage can for flammable liquids. 3,469,747, 9-30-69, Cl. 222-469.

Richmond Screw Anchor Co., Inc.: *See—*
MacRobbie, Robert, 3,435,512.

Richter, Albert P., Jr.; and Bruner, James D., to Texaco Inc. Logging while drilling system. 3,451,263, 6-24-69, Cl. 73-152.

Richter, Albert P., Jr.; and Bruner, James D., to Texaco Inc. Borehole logging system. 3,465,582, 9-9-69, Cl. 73-152.

Richter, Albert P., Jr.; and Bruner, James D., to Texaco Inc. Logging while drilling system. 3,466,597, 9-9-69, Cl. 340-18.

Richter, Albert P., Jr.; and Bruner, James D., to Texaco Inc. Logging while drilling apparatus employing potted electronic components. 3,486,107, 12-23-69, Cl. 324-1.

Richter, Albert P., Jr.; and Cox, Percy T., to Texaco Inc. Logging while drilling system. 3,455,158, 7-15-69, Cl. 73-174.

Richter, Carl Fritz: *See—*
Starp, Franz W. R.; and Richter, Carl Fritz,3,444,797.
Starp, Franz W. R.; Richter, Carl Fritz; and Erhard, Eugen Adolf,3,460,454.

Richter, Carl; and Erdmann, Raymond, to Cilag-Chemie Limited. Nickel electroplating electrolyte. 3,444,056, 5-13-69, Cl. 204-49.

Richter, Charles W., III; and Erlewine, Richard H., to General Plastics Corporation. Christmas ornament. 3,431,409, 3-4-69, Cl. 240-10.

Richter, Donald H.; Streimer, Irving; and Turner, David P. W., to North American Rockwell Corporation. Six degree of freedom apparatus. 3,449,843, 6-17-69, Cl. 35-12.

Richter, Donald L., to Temcor. Structural joint. 3,477,752, 11-11-69, Cl. 287-189.36

Richter, Edgar: *See—*
Gerlach, Albrecht; Habicht, Manfred; and Richter, Edgar,3,465,738.

Richter, Edmund, to Spinnfaser Aktiengesellschaft. Process for purifying air. 3,446,573, 5-27-69, Cl. 23-4.

Richter, Eugene G.: *See—*
Schaller, Frank H.; Richter, Eugene G.; and Lozeau, Paul R.,3,421,754.

Richter, Frederick G.; Guerriere, Thomas V.; and Williams, Christian B., to Servo Corporation of America. Amplitude mode doppler direction finder. 3,460,147, 8-5-69, Cl. 343-113.

Richter Geodeon Vegyeszeti Gyar RT.: *See—*
Wack, Geza; Perenyi, Tibor; Udvardy Nagy, Eva nee Oserei Pehany; and Zsoka, Erzsebet nee Somkuti, 3,483,086.

Richter, Hans H.: *See—*
Brouwer, Charles W.; and Richter, Hans H.,3,464,452.
Brouwer, Charles W.; and Richter, Hans H.,3,477,476.

Richter, Hans H., to Leesona Corporation. Textile spindle. 3,436,835, 4-8-69, Cl. 308-26.

Richter, Hans H., to Leesona Corporation. Yarn handling apparatus. 3,452,910, 7-1-69, Cl. 226-91.

Richter, Hans H. False twist spindle assembly. 3,458,985, 8-5-69, Cl. 57-77.45
Houle, Roland O.; and Richter, Hans H.,3,424,359.

Richter, Helmer: *See—*
Priewe, Hans; Rahtz, Dieter; Hempel, Reinhard; and Richter, Helmer,3,423,413.

Richter, Herman W., to Burndy Corporation, mesne. Flat shielded cable termination method and structure. 3,462,542, 8-19-69, Cl. 174-88.

Richter, Johan C. F. C., to Aktiebolaget Kamyr. Method of performing counter-current continuous cellulose digestion. 3,427,218, 2-11-69, Cl. 162-19.

Richter, Johan C. F. C., to Aktiebolaget Kamyr. Continuous cellulose digester with charging device. 3,429,773, 2-25-69, Cl. 162-237.

Richter, John Edward: *See—*
Gould, Russell Dunplop; and Richter, John Edward,3,457,712.

Richter, John M.: *See—*
Brunton, Donald C.; and Richter, John M.,3,460,030.

Richter, Josef: *See—*
Kraus, Alexander; and Richter, Josef,3,423,675.

Richter, Klaus: *See—*
Luther, Guenter; Schulze, Martin; and Richter, Klaus,3,434,936.

Richter, Manfred: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.

Richter, Philip, to Fuller Company. Hatch dogging and sealing mechanism. 3,421,471, 1-14-69, Cl. 114-203.

Richter, Ralph W.; and Mongesku, William O., to General Electric Company. Construction for radios and the like. 3,463,565, 8-26-69, Cl. 312-7.

Richter, Robert C.; and Hasz, John R., to Cincinnati Milling Machine Co., The. Machine tool damping unit. 3,486,585, 12-30-69, Cl. 188-1.

Richter, Robert L.; and Sauter, Jack E. Two-piece extruded tubular assembly. 3,459,234, 8-5-69, Cl. 138-165.

Richter, Roberta C.: *See—*
Campbell, James K.; and Richter, Roberta C.,3,485,661.

Richter, Roy E.: *See—*
Frank, Max S., 3,451,115.

Richter, Sidney B., to Velsicol Chemical Corporation. Phosphorylated acetamides as herbicides. 3,449,109, 6-10-69, Cl. 71-87.

Richter, Sidney B., to Velsicol Chemical Corporation. Method for destroying undesirable plant life. 3,450,520, 6-17-69, Cl. 71-87.

Richter, Sidney B., to Velsicol Chemical Corporation. O-(methyl or ethyl)-0-2,5 dichloro-4-bromophenyl phenyl phosphonates. 3,459,836, 8-5-69, Cl. 260-961.

Richter, Sidney B.; and Berliner, Jordan P., to Velsicol Chemical Corporation. N-Methoxy and N-ethoxy benzamides. 3,485,865, 12-23-69, Cl. 260-453.

Richter, Sidney B.; and Mayer, David P., to Velsicol Chemical Corporation. Acaricidal composition containing n-substituted and unsubstituted alkyl and alkenyl-2 dimethylamino- benzhydrylcarbamates. 3,422,199, 1-14-69, Cl. 424-300.

Richter, Sidney B.; and Mayer, David P., to Velsicol Chemical Corporation. N-Methyl-2-dimethylamino-5-chloro benzhydrylcarbamates. 3,470,237, 9-30-69, Cl. 260-482.

Richter, Sidney B.: *See—*
Berliner, Jordan P.; and Richter, Sidney B.,3,446,613.
Berliner, Jordan P.; and Richter, Sidney B.,3,446,832.
Berliner, Jordan P.; and Richter, Sidney B.,3,474,124.
Mayer, David P.; and Richter, Sidney B.,3,431,099.
Wilks, Louis P.; and Richter, Sidney B.,3,435,081.

Richter, Sidney; and Levin, Alfred A., to Velsicol Chemical Corporation. 1,3-Dicyano-4,7-methano-3 a,4,7,7a- tetrahydroindane compounds. 3,480,657, 11-25-69, Cl. 260-464.

Richter, Walter, to Hudson Machine & Tool Corporation. Automatic stock lubricating system. 3,427,840, 2-18-69, Cl. 72-44.

Richter, Walter, to Hudson Machine & Tool Corporation. Die set. 3,470,726, 10-7-69, Cl. 72-361.

Richter, Walther: *See—*
Swinehart, Merle R.; and Richter, Walther,3,475,677.

Richter, Willy: *See—*
Korber, Kurt; and Richter, Willy,3,422,820.

Richter, Willy, to Hauni-Werke Korber & Co. K.G. Method of and machine for producing a tobacco rod. 3,431,914, 3-11-69, Cl. 131-21.

Richtzenhain, Hermann: *See—*
Daum, Gerhard; Modic, Rudolf; and Richtzenhain, Hermann,3,435,045.

Richtzenhain, Hermann; and Riegger, Paul, to Dynamit Nobel Aktiengesellschaft. Manufacture of halogenated pinacols. 3,463,826, 8-26-69, Cl. 260-633.

Richtzenhain, Hermann; and Stephan, Rudolf, to Dynamit Nobel Aktiengesellschaft Patentabteilung. Stabilization of 1,1,1-trichloroethane. 3,445,532, 5-20-69, Cl. 260-652.5
Vogt, Wilhelm; and Richtzenhain, Hermann,3,475,497.

Rick, Christian E., to Fansteel Inc., mesne. Process for using chromic acid in the preparation of dispersion strengthened refractory metal alloys. 3,473,914, 10-21-69, Cl. 75-0.5

Rick, Edward A.; and Pruett, Roy L., to Union Carbide Corporation. Catalysts for the preparation of pentacyclo [8.2.1.1^{4-7}.0^{2-8}.0^{3-6}] tetradeca- 5,11-diene. 3,458,550, 7-29-69, Cl. 260-439.

Rick, Edward A.; and Tinsley, Samuel W., Jr., to Union Carbide Corporation. Bicyclo[2.2.1.]hept-5(6)-yl compounds. 3,459,775, 8-5-69, Cl. 260-348.

Rick, Edward A.: *See—*
Pruett, Roy L.; and Rick, Edward A.,3,440,294.

Rickard, Clyde E., to McDowell Manufacturing Company. Procedure for making quick assembly coupling. 3,461,544, 8-19-69, Cl. 29-507.
Rickard, Clyde E., to McDowell Manufacturing Company. Solid set coupling. 3,471,173, 10-7-69, Cl. 285-6.
Rickard, Donn J.; Holbrook, Franklin K.; Bushman, Ronald C.; Preston, Warren O.; and Gill, Thomas H., to Brown International Corporation. Citrus fruit juicing machinery. 3,448,682, 6-10-69, Cl. 100-53.
Rickard, Earl K.; and Kreimann, Herbert H., to Combustion Engineering, Inc. Retractable soot blower organization. 3,436,786, 4-8-69, Cl. 15-317.
Rickard, Earl K.; and Martinez, Orlando, Jr., to Combustion Engineering, Inc. Vapor generator having gas recirculation system using gas ejector. 3,426,734, 2-11-69, Cl. 122-478.
Rickard, Earl K.: *See*—
Kreimann, Herbert H.; and Rickard, Earl K.,3,447,492.
Woolard, Thomas L.; and Rickard, Earl K.,3,481,392.
Ricke, Heinz: *See*—
Trab, Abdulrahim Cheikh; and Ricke, Heinz,3,461,797.
Rickel, Edgar J.; and Kernohan, Thomas D., to Rickel, Inc. Air cooling arrangement for tractor having over- sized single front wheel. 3,438,454, 4-15-69, Cl. 180-54.
Rickel, Inc.: *See*—
Rickel, Edgar J.; and Kernohan, Thomas D., 3,438,454.
Rickell, Arthur L.: *See*—
Feffer, Philip C.; Polino, Amleto C.; and Rickell, Arthur L.,3,427,737.
Rickenbacher, Hans Rudolf, to Ciba Limited. 1-Amino(or hydroxy)-4-phenylureido- anthraquinones. 3,433,810, 3-18-69, Cl. 260-377.
Rickenbacher, Hans Rudolf, to Ciba Limited. 1-Amino-2-alkoxy-4-anthraquinonylaralkyl urethanes. 3,455,970, 7-15-69, Cl. 260-377.
Rickenbacher, Hans Rudolf: *See*—
Reich, Ernst; and Rickenbacher, Hans Rudolf,3,439,003.
Rickenbacher, Hansruedi: *See*—
Weber, Kurt; Rickenbacher, Hansruedi; and Meister, Ulrich,3,473,882.
Rickenborde, Gary H., to Babcock & Wilcox Company, The. Portable machine. 3,477,341, 11-11-69, Cl. 90-12.
Ricker, Dennis J.: *See*—
O'Day, Arthur J.; and Ricker, Dennis J., 3,465,665.
Ricker, Dennis J.: *See*—
O'Day, Arthur J.; and Ricker, Dennis J.,3,465,665.
Rickert, Glenn E. Sighting device. 3,439,970, 4-22-69, Cl. 350-10.
Rickert, Paul E.: *See*—
Pope, Joseph I.; Rickert, Paul E.; and Wilkinson, Robert R.,3,443,399.
Rickert, Richard M.: *See*—
Breeden, Robert L.; and Rickert, Richard M.,3,424,870.
Rickert, Royce J., to Combustion Engineering, Inc. Nuclear reactor core and control element arrangement. 3,481,832, 12-2-69, Cl. 176-50.
Rickett, Edward, to Defroster Company, Inc., The. Electrically heated windshield wiper assembly. 3,428,993, 2-25-69, Cl. 15-250.06
Rickett, Edward, to Daco, Inc. Resilient windshield wiper blade. 3,428,997, 2-25-69, Cl. 15-250.36
Rickett, Edward, to Daco, Inc. Holder for windshield wiper blade. 3,430,285, 3-4-69, Cl. 15-250.42
Rickett, Philip Haydn: *See*—
Ogle, Joseph Eric; and Rickett, Philip Haydn,3,425,255.
Ricketts, Colin J.; Bodnar, Andrew J.; Braithwaite, Frederick T.; Johnson, Seward R.; and Wheeler, Ernest E. Television-assisted aircraft landing and monitoring system. 3,484,549, 12-16-69, Cl. 178-6.
Ricketts, James M.: *See*—
Guernsey, Robert W.; Ricketts, James M.; and Zeek, Richard M.,3,476,174.
Ricketts, Luther W., Jr.; Buenger, George L.; and Erickson, Robert J., to Magnavox Company, The. Simultaneous read and write memory configuration. 3,471,838, 10-7-69, Cl. 340-174.
Ricketts, Luther W., Jr.; Stalcup, Robert E.; and Erickson, Robert J., to Magnavox Company, The. Beam former. 3,449,711, 6-10-69, Cl. 340-6.
Rickey, Edward A.: *See*—
Daubenspeck, Benjamin K.; and Rickey, Edward A.,3,440,072.
Rickey, Ronald P., to Eltop Corporation. Low voltage cut-out device. 3,474,296, 10-21-69, Cl. 317-31.
Rickley, Samuel S.; and Bjork, John A., to Morgan Construction Company. Bearing assembly. 3,453,031, 7-1-69, Cl. 308-9.
Rickman, David W.: *See*—
Seller, Duglas E.; and Rickman, David W.,3,486,998.
Rickords, Tommy J.: *See*—
Thrasher, Howard G.; Rickords, Tommy J.; and Bell, Harold M., Jr.,3,481,208.
Ricordeau, Jean P.; and Mior, Pio P. Appliance for cleaning horizontal or inclined devices containing bundles of tubes. 3,448,477, 6-10-69, Cl. 15-104.1
Riddel, John W., to General Motors Corporation. Method of making a thermistor. 3,430,336, 3-4-69, Cl. 29-612.
Riddel, John W., to General Motors Corporation. Thermistor liquid level sensor and method for making the same. 3,479,875, 11-25-69, Cl. 73-295.
Riddel, John W.; and Schwyn, Raymond E., to General Motors Corporation. Printed thermistor on a metal sheet. 3,469,224, 9-23-69, Cl. 338-22.
Riddell, Inc.: *See*—
Morgan, Gerard E., 3,487,417.
Riddell, Vernon A., to Vinco Corporation. Formed wheel dresser. 3,451,384, 6-24-69, Cl. 125-11.
Riddell, Vernon A., to Vinco Corporation. Spline gauge. 3,469,321, 9-30-69, Cl. 33-179.5
Ridderikhoff, Werner: *See*—
Alders, Lucas; and Ridderikhoff, Werner,3,449,462.
Riddet Company: *See*—
Adams, Dolor N.; Sorkin, Jack L.; and Thomas, Daniel C., 3,455,688.
Adams, Dolor N., 3,459,594.
Riddick, Frank C.: *See*—
Hass, Robert H.; Helfrey, Paul F.; and Riddick, Frank C.,3,427,243.
Riddick, Thomas M. Electrophoresis cell for measuring the electrokinetic potential of dispersed particles. 3,454,487, 7-8-69, Cl. 204-299.
Riddington, Fred W., to Sunkist Growers, Inc. Apparatus for automatically boxing layers of articles. 3,453,802, 7-8-69, Cl. 53-60.
Riddington, Fred W.: *See*—
Zwiacher, Wayne E.; Kaser, Louis D.; Johnson, Maurice V., Jr.; Fennell, Alfred H.; and Riddington, Fred W.,3,465,495.
Riddle, Carl B.: *See*—
Blue, John; Riddle, Carl B.; and Horton, Donelson B.,3,472,454.
Riddle, Cecil, to National Research Development Corporation. Instrument for providing signals representative of the position of a moving target. 3,471,697, 10-7-69, Cl. 250-83.3
Riddle, Donald Alfred. Revolving doors. 3,440,759, 4-29-69, Cl. 49-43.
Riddle, John B.; and McLaughlin, Robert B., to Micro-Magnetic Industries, Inc. Bill escrow device. 3,442,363, 5-6-69, Cl. 194-4.
Riddle, John B.: *See*—
Tanaka, Frederick K.; Lawrence, Franklin B.; and Riddle, John B.,3,447,655.
Riddle, Lavis Albert Henry: *See*—
Hardy, Derek James; and Riddle, Lavis Albert Henry,3,467,215.
Hardy, Derek James; and Riddle, Lavis Albert Henry,3,469,650.
Ridenhour, Banks L.: *See*—
Bourn, Jesse T.; Ridenhour, Banks L.; and Lum, Robert C.,3,480,257.
Ridenhour, Joseph C.: *See*—
Moritz, Werner; and Ridenhour, Joseph C.,3,468,694.
Ridenour, Richard Eugene: *See*—
Chadha, Rajendra Nath; Pande, Kailash Chandra; and Ridenour, Richard Eugene,3,440,205.
Pande, Kailash Chandra; and Ridenour, Richard Eugene,3,440,206.
Pande, Kailash Chandra; and Ridenour, Richard Eugene,3,448,136.
Pande, Kailash Chandra; and Ridenour, Richard Eugene,3,480,653.
Rideout, Donald C.; Shuler, Luke M.; and Riley, William H., Jr., to Prismo Safety Corporation. Method of producing reflective markers and the resulting marker. 3,486,926, 12-30-69, Cl. 117-104.
Rider, Benjamin F.: *See*—
Ruiz, Carl P.; Rider, Benjamin F.; and Gerhart, James M.,3,459,634.
Rider, Harold D.: *See*—
De Puy, Charles H.; and Rider, Harold D.,3,442,960.
Rider, Joseph Alfred, to Moraine Products. Method and compositions for the treatment of gastro-intestinal disorders. 3,422,189, 1-14-69, Cl. 424-127.
Rider, Osborne Lawrence, to FMC Corporation. Method for making laminated structures. 3,445,312, 5-20-69, Cl. 156-332.
Rider, Rowland W.: *See*—
Yauney, Lloyd R.; Rider, Rowland W.; and Cannon, Edwin Q., Jr.,3,461,586.
Rider, Stuart H., to Monsanto Company. Process of preparing seemingly one-stage novolacs. 3,472,915, 10-14-69, Cl. 260-839.
Ridge Nassau Corporation: *See*—
Chartrand, Fernand, 3,476,425.
Ridgeway, Lee R.; and Fischer, Joseph, to National Distillers and Chemical Corporation. Compositions comprising ethylene-vinyl acetate copolymer, fatty acid salt, fatty acid amide and particulate material. 3,470,122, 9-30-69, Cl. 260-23.
Ridgeway, Lee R.; and Fischer, Joseph, to National Distillers and Chemical Corporation. Compositions comprising ethylene-vinyl acetate copolymer,fatty acid salt and fatty acid amide. 3,474,058, 10-21-69, Cl. 260-23.
Ridgeway, William E., to Union Oil Company of California. Process for recovery of contaminants from the ground. 3,425,555, 2-4-69, Cl. 210-65.
Ridgewell, Brian John: *See*—
Duck, Edward William; and Ridgewell, Brian John,3,480,604.

Ridgway, James S., to Monsanto Company. Polycarbonamides from durene diacetic acid. 3,426,000, 2-4-69, Cl. 260-78.
Ridgway, James S., to Monsanto Company. Polyamides from xylylene diamines and 5-τ- butylisophthalic acids. 3,426,001, 2-4-69, Cl. 260-78.
Ridland, Alexander C. Tab and package therefor. 3,424,305, 1-28-69, Cl. 206-56.
Ridley, Maurice Alexander; and Robinson, Peter John, to Durham Chemicals Limited. Electrodeposition of zinc particles. 3,464,906, 9-2-69, Cl. 204-181.
Ridley, Richard D., to Tidewater Oil Company. Desulfurization of coke. 3,472,622, 10-14-69, Cl. 23-209.9
Ridley, Richard D., to Tidewater Oil Company. Desulfurization of particulate coke. 3,472,624, 10-14-69, Cl. 23-209.9
Ridley, William Charles: *See—*
McKenzie, Thomas; and Ridley, William Charles,3,485,377.
Ridout, Philip Neale: *See—*
Groves, Kenneth; and Ridout, Philip Neale,3,486,117.
Ridout, Robert A.: *See—*
Doerr, Dale D.; and Ridout, Robert A.,3,457,759.
Ridyard, John: *See—*
Wignall, Norman; and Ridyard, John,3,428,007.
Riebel, Alexander: *See—*
Himmelmann, Wolfgang; Moll, Franz; Posse, Rolf-Fred; Riebel, Alexander; and Ulrich, Hans,3,441,412.
Himmelmann, Wolfgang; Riebel, Alexander; Zenner, Karl-Friedrich; and Meckl, Heinz,3,480,440.
Lassig, Wolfgang; Riebel, Alexander; Puschel, Walter; and Himmelmann, Wolfgang,3,480,431.
Riechers, Harold D.: *See—*
McLeod, James E.; Taborosi, Steve; Groening, Harvey F.; and Riechers, Harold D.,3,469,938.
Riecke, George T., to United Aircraft Corporation. Afterburner for bypass turbine engine. 3,485,045, 12-23-69, Cl. 60-39.72
Rieckenberg, George W.: *See—*
Krohm, Fred A.; and Rieckenberg, George W.,3,431,579.
Rieckmann, Peter: *See—*
Haack, Erich; Rey, Hans-Georg; and Rieckmann, Peter,3,443,903.
Rieckmann, Peter; and Schalk, Heinz. Dragee preparation. 3,456,050, 7-15-69, Cl. 424-35.
Ried, Karl. Tubemaking apparatus. 3,460,445, 8-12-69, Cl. 93-80.
Ried, Marcel Boschung, Firm: *See—*
Schindelholz, Adolphe, 3,456,505.
Riede, Raymond George; and Cain, Clifford William, Jr., to Johns-Manville Corporation. Conditioning powder for drycleaning solvent. 3,427,249, 2-11-69, Cl. 252-163.
Riedel, Anton; and Kaiser, Guenther, to Agfa-Gevaert Aktiengesellschaft. Cartridge for roll film. 3,482,797, 12-9-69, Cl. 242-71.1
Riedel, Dieter: *See—*
Riedel, Herbert; and Riedel, Dieter,3,440,841.
Riedel, Herbert; and Riedel, Dieter, to Drabert Sohne. Decatizing apparatus. 3,440,841, 4-29-69, Cl. 68-7.
Riedel, Joannchristoph. Apparatus for the continuous production of a mat of glass filaments. 3,446,610, 5-27-69, Cl. 65-9.
Riedel, John Y., to Bethlehem Steel Corporation. Article and method of heat treating high phosphorus steels. 3,438,821, 4-15-69, Cl. 148-134.
Riedel, Wolfgang; and Luz, Siegbert, to Bosch, Robert, Elektronik und Photokino GmbH. Friction-type coupling. 3,462,974, 8-26-69, Cl. 64-30.
Riedel, Wolfgang: *See—*
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang,3,425,330.
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang,3,456,568.
Riedell, Edwin H. Contraceptive device. 3,452,749, 7-1-69, Cl. 128-129.
Riedeman, William L.; and Lupichuk, Andrew, to FMC Corporation. Compositions comprising polyvinyl chloride and epoxidized methyl esters of maleinized fatty acids. 3,451,958, 6-24-69, Cl. 260-23.
Rieder, Kurt O.: *See—*
Farrell, John W.; Forgeng, William D.; and Rieder, Kurt O.,3,483,914.
Riedesel, Richard G., to Minnesota Mining and Manufacturing Company. Method of forming paper from synthetic fibers having a skeletal structure. 3,433,703, 3-18-69, Cl. 162-157.
Riedl, Fredrick J.; and Donaldson, George R., to Universal Oil Products Company. Production of jet fuel. 3,457,162, 7-22-69, Cl. 208-143.
Riedl, Werner, to Varta Pertrix-Union G.m.b.H. Fillable galvanic battery with activation arrangement for the simultaneous introduction of electrolyte into individual cells. 3,468,715, 9-23-69, Cl. 136-90.
Riedle, Delmar D.: *See—*
Riedle, Robert D.; and Riedle, Delmar D.,3,458,000.
Riedle, Robert D.; and Riedle, Delmar D. Implement control apparatus. 3,458,000, 7-29-69, Cl. 172-663.
Riedle, Rudolf: *See—*
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf,3,423,318.
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf,3,487,123.
Nitzsche, Siegfried; Riedle, Rudolf; and Hombergsmeier, Gerhard,3,428,580.
Riege, Ronald L.: *See—*
Brams, Stewart L.; Gage, Frederick W.; and Riege, Ronald L.,3,445,318.
Riegel Paper Corporation: *See—*
Anderson, William E., 3,467,296.
Bailey, Ernest L.; Cote, Raymond A.; and Schrier, Bruce H., 3,447,672.
Kaliski, Adam F.; and Husband, Robert M., 3,484,271.
Lense, Robert F., 3,442,062.
Ludwig, Wilbur G.; and Zimmer, Richard C., 3,475,257.
Martin, Paul A., 3,442,063.
Williams, Richard H., 3,458,375.
Riegel Textile Corporation: *See—*
Crenshaw, Walter J.; Hicks, Hoke S.; and Oakes, Efton O., 3,463,199.
Klose, Karl W., 3,450,080.
Klose, Karl W., 3,474,978.
Meyer, Theodore J., Jr.; and Groce, Homer W., 3,434,440.
Reynolds, Linton C.; Clifford, Alfred T.; Fooshe, Wesley K., Jr.; and Thomson, Stewart M., 3,425,856.
Rieger, Carl J.: *See—*
Quinn, Charles A.; Rieger, Carl J.; and Bolomey, Rene A.,3,437,515.
Rieger, Frederic L.; Kern, Jack I.; and Utzinger, William F., to Monarch Marking System Company, The. Encoded tag reader. 3,474,234, 10-21-69, Cl. 235-61.11
Rieger, Martin M.: *See—*
Brechner, Stanley; Malakoff, Meyer; and Rieger, Martin M.,3,433,868.
Rieger, Martin M. Cosmetic stick composition. 3,429,964, 2-25-69, Cl. 424-73.
Rieger, Werner Helmut. Protective tire chains. 3,426,823, 2-11-69, Cl. 152-231.
Riegger, Paul: *See—*
Richtzenhain, Hermann; and Riegger, Paul,3,463,826.
Riegner, Earl I.: *See—*
Schwallie, Cletus R.; and Riegner, Earl I.,3,477,284.
Riehl, Fred, to Robertshaw Controls Company. Ignition means for a cooking apparatus or the like. 3,461,853, 8-19-69, Cl. 126-39.
Riehl, Henry, & Son: *See—*
Wagner, Paul August, 3,483,899.
Riehl, Melvin E.: *See—*
Hill, Leroy D.; Imboden, Walter H.; and Riehl, Melvin E.,3,439,513.
Riehl, Wilhelm, to General Motors Corporation. Hydropneumatic suspension devices. 3,430,977, 3-4-69, Cl. 280-124.
Rieke, James K.: *See—*
Hart, Gerald M.; and Rieke, James K.,3,480,485.
Rieke, Johannes Cornelis: *See—*
Duiser, Johannes Aart; and Rieke, Johannes Cornelis,3,476,849.
Rieke, Ray E. Anti-clogging entrance guard for culverts. 3,472,030, 10-14-69, Cl. 61-16.
Rieke, Richard J., to General Electric Company. Respiration monitor. 3,433,217, 3-18-69, Cl. 128-2.08
Rieke, Richard J., to General Electric Company. Body impedance bridge. 3,452,743, 7-1-69, Cl. 128-2.1
Riel, Robert K.: *See—*
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Riel, Robert K.,3,421,943.
Rieli, Anthony, to LTV Aerospace Corporation. Low-silhouette vehicle. 3,435,798, 4-1-69, Cl. 115-1.
Rieli, Anthony; and McNaughton, Gordon Richard, to LTV Aerospace Corporation. Seat and control arrangement for low- silhouette vehicle. 3,485,313, 12-23-69, Cl. 180-6.2
Riely, Phyllis E.: *See—*
Nociti, John M.; and Riely, Phyllis E.,3,471,871.
Riemann, Karl Heinz: *See—*
Kautter, Carl Theodor; Baumann, Ulrich; and Riemann, Karl Heinz,3,458,561.
Riemens, Karel: *See—*
Greefkes, Johannes Anton; Riemens, Karel; Krul, Lendert Gerardus; and Zwijsen, Wilhelmus Antonius Joseph Marie,3,450,998.
Riemerschmid, Fritz, to M.A.N. Tubro G.m.b.H. Swiveling lift engines for VTOL aircraft. 3,454,241, 7-8-69, Cl. 244-55.
Riemhofer, Franz: *See—*
Tschesche, Rudolf; Riemhofer, Franz; and Bernstein, Jack,3,466,327.
Rienesl, Konrad: *See—*
Giese, Ernest; Schubert, Egon; and Rienesl, Konrad,3,460,979.
Riepe, Helmuth, to Rapidograph, Inc. Pen having a wear-compensating construction. 3,427,116, 2-11-69, Cl. 401-259.
Riepe, Helmuth, to Rapidograph, Inc., mesne. Stand for tube writing pens. 3,463,323, 8-26-69, Cl. 211-69.5
Riepe, Helmuth, to Rapidograph, Inc., mesne. Writing head for a tube writing pen. 3,466,132, 9-9-69, Cl. 401-259.
Riepe, Helmut, to Rapidograph, Inc., mesne. Tubular writing pen. 3,441,354, 4-29-69, Cl. 401-182.

Rieppel, Perry J.; and Nelson, Jerome W., to Esso Research and Engineering Company. System for welding pipelines. 3,461,540, 8-19-69, Cl. 29-493.
Rieppel, Perry J.: *See—*
Nelson, Jerome W.; and Rieppel, Perry J.,3,427,428.
Rieprich, Willy, to Blohm & Voss A.G. Apparatus for controlling rolling of watercraft. 3,444,836, 5-20-69, Cl. 114-126.
Rieprich, Willy, to Blohm & Voss A.G. Apparatus for controlling rolling of watercraft. 3,456,612, 7-22-69, Cl. 114-126.
Riera, Juan Colome: *See—*
Salat, Carlos Ferrer; Batlle, Jorge Ferrer; and Riera, Juan Colome,3,459,800.
Salat, Carlos Ferrer; Batlles, Jorge Ferrer; and Riera, Juan Colome,3,429,869.
Salat, Carlos Ferrer; Battles, Jorge Ferrer; and Riera, Juan Colome,3,439,091.
Ries, Franz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for automatically filling swing-out cassettes. 3,436,896, 4-8-69, Cl. 53-266.
Ries, Ludwig; Schreiner, Fritz; and Schaefer, Werner, to Hartmann & Braun Aktiengesellschaft. Plural servo measuring device including zero and range calibration. 3,454,880, 7-8-69, Cl. 324-130.
Ries, Ludwig: *See—*
Kowert, Alexander; Moldenhauer, Kurt; Ries, Ludwig; and Schaefer, Werner,3,454,760.
Ries, Roger P.: *See—*
Satterthwaite, Cameron B.; and Ries, Roger P.,3,479,576.
Ries, Warren Calvin: *See—*
Lynn, Seymour; and Ries, Warren Calvin,3,449,650.
Ries, Werner: *See—*
Wehde, Heinz; and Ries, Werner,3,463,011.
Riesbeck, Laverne J.; and Blackwell, Willis A., to Midwestern Equipment Co., Inc. Mounting ring for vibrating screens. 3,463,315, 8-26-69, Cl. 209-323.
Rieschel, Hans: *See—*
Irresberger, Hermann; Rieschel, Hans; and Ratz, Bodo-Werner,3,436,922.
Jacobi, Oskar; Irresberger, Hermann; Ratz, Bodo-Werner; and Rieschel, Hans,3,437,010.
Rieschel, Hans, to Bergwerksverband G.m.b.H. Hydraulic casing units for mine workings. 3,448,584, 6-10-69, Cl. 61-45.
Rieschel, Hans, to Bergwerksverband GmbH. Mine roof support systems. 3,453,935, 7-8-69, Cl. 91-36.
Rieschel, Hans, to Bergwerksverband GmbH. Control arrangements for hydraulic pit prop support units. 3,478,522, 11-18-69, Cl. 61-45.
Rieschel, Hans, to Bergwerksverband G.m.b.H. Control systems for self-advancing mine roof support units. 3,482,407, 12-9-69, Cl. 61-45.
Riesen, Walter C., Jr.: *See—*
La Barge, Robert L.; and Riesen, Walter C., Jr.,3,441,163.
Riesenberg, James H., to Consolidated Packaging Machinery Corp. Container filling machine head. 3,430,668, 3-4-69, Cl. 141-198.
Riesenberg, James H., to Consolidated Packaging Machinery Corporation. Submergible filling head. 3,461,923, 8-19-69, Cl. 141-140.
Riess, Horst: *See—*
Gluck, Roswitha; Lutz, Edgar; Riess, Horst; and Weinmann, Klaus,3,442,724.
Riess, Jean G.; and Van Wazer, John R., to Monsanto Company. Phosphorus and arsenic tri-imide metal compounds. 3,420,864, 1-7-69, Cl. 260-439.
Riester, Oskar: *See—*
Ohlschlager, Hans; and Riester, Oskar,3,485,632.
Ohlschlager, Hans; Riester, Oskar; Muller, Herbert; and Reckziegel, Erich,3,471,293.
Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Supersensitized silver halide emulsions. 3,457,078, 7-22-69, Cl. 96-104.
Riester, Oskar. Optical sensitizing cyanine dyes containing oxazine-type ring. 3,470,166, 9-30-69, Cl. 260-240.7
Riester, William C., to Trico Products Corporation. Windshield wiper arm. 3,427,676, 2-18-69, Cl. 15-250.35
Riester, William C.; and Graczyk, Bronislaus S., to Trico Products Corporation. Fluid coupling assembly. 3,469,863, 9-30-69, Cl. 285-137.
Riester, William C.: *See—*
Deibel, Raymond A.; and Riester, William C.,3,439,580.
Deibel, Raymond A.; Riester, William C.; and Roberts, Hobart V., Jr.,3,466,905.
Rietdijk, Johan Adriaan, to North American Philips Company, Inc. Device for producing cold and/or liquefying gases. 3,427,817, 2-18-69, Cl. 62-113.
Rietdijk, Johan Adriaan, to North American Philips Company, Inc. Apparatus and ejector for producing cold. 3,434,298, 3-25-69, Cl. 62-115.
Rietdijk, Johan Adriaan, to U.S. Philips Corporation, mesne. Cold producing systems. 3,447,339, 6-3-69, Cl. 62-500.
Rietdijk, Johan Adriaan, to U.S. Philips Corporation, mesne. Cryogenic apparatus for producing cold. 3,456,456, 7-22-69, Cl. 62-500.
Rietdijk, Johan Adriaan, to U.S. Philips Corporation, mesne. Systems for producing cold and ejectors in such systems. 3,464,230, 9-2-69, Cl. 62-500.
Rietdijk, Johan Andriaan, to U.S. Philips Corporation, mesne. Apparatus and ejector for producing cold. 3,442,093, 5-6-69, Cl. 62-500.
Rieter Machine Works, Ltd.: *See—*
Graf, Felix, 3,460,215.
Just, Christian, 3,470,588.
Rutz, Hans, 3,438,093.
Rieth, Harold F., to Packard-Bell Electronics Corporation. Power generator. 3,480,808, 11-25-69, Cl. 310-25.
Rieth, Harold F., to Packard-Bell Electronics Corporation. Power generator. 3,487,398, 12-30-69, Cl. 340-345.
Riethmann, Jean: *See—*
Schramek, Henri; Riethmann, Jean; and Kallen, Jorg,3,449,324.
Riethmuller, Heinz: *See—*
Thomaier, Dieter; and Riethmuller, Heinz,3,447,845.
Riethmuller, Heinz; and Thomaier, Dieter, to Teldix Luftfahrt-Ausrustungs G.m.b.H. Symmetrical gyroscope. 3,431,786, 3-11-69, Cl. 74-5.
Rietsch, Eberhard, to Wuppermann, Theodor Gesellschaft mit beschrankter Haftung. Welding method. 3,435,182, 3-25-69, Cl. 219-100.
Rietveld, Andreas Fredericus, to U.S. Philips Corporation, mesne. Method of assembling a peltier battery with heat exchangers and device so constructed. 3,450,572, 6-17-69, Cl. 136-203.
Rietz Manufacturing Co.: *See—*
Wilhelm, Donald M., 3,447,450.
Rieve Robert W., to Atlantic Richfield company. Telomerization of ethylene. 3,462,503, 8-19-69, Cl. 260-658.
Rieve, Robert W., to Atlantic Richfield Company. Metal contaminant removal from solid carbonaceous materials. 3,454,363, 7-8-69, Cl. 23-209.9
Rife, Howard M.; and Landers, Leolin V., to Union Carbide Corporation. Chewing gums. 3,440,060, 4-22-69, Cl. 99-135.
Riffkin, Charles; and Goldberg, Martin, to Squibb, E. R., & Sons, Inc., mesne. Compositions containing a benzothiadiazinesulfonamide 1,1-dioxide. 3,426,130, 2-4-69, Cl. 424-246.
Rifkin, Arnold S. One-way coin conduit. 3,463,288, 8-26-69, Cl. 194-97.
Riga, Jean Joseph, to Societe Belge de l'Azote et des Produits Chimiques de Marly, S.A. Process and burner for the conversion of ammonia into oxides of nitrogen. 3,462,243, 8-19-69, Cl. 23-162.
Riga, Jean Joseph, to Societe Belge de l'Azote et des Produits Chimiques de Marly, S.A. Process for the manufacture of nitric acid. 3,472,620, 10-14-69, Cl. 23-160.
Rigamonti, Alessandro: *See—*
Carletti, Luciano; and Rigamonti, Alessandro,3,480,468.
Rigaudy, Jean, to Roussel-Uclaf. 9-Isopropylidenyl-9,10-dihydroanthracene-10- carboxylic acid esters. 3,453,315, 7-1-69, Cl. 260-469.
Rigby, Donald Frank, to Postmaster General, Her Majesty's. Interstage signalling system using discrete currents or voltages. 3,484,559, 12-16-69, Cl. 179-18.
Rigby, Francis L., to Haas, John I., Inc. Apparatus for dispensing viscous materials such as hop extract. 3,478,930, 11-18-69, Cl. 222-146.
Rigby, Robert, Limited: *See—*
Marsden, Harry, 3,427,099.
Rigden, Sydney A. R.; and Whiscombe, John B., to General Electric Company, Limited, The. Closure of tubes of refractory oxide material. 3,428,846, 2-18-69, Cl. 313-284.
Rigden, Sydney Alfred Richard; and Whiscombe, John Brian, to General Electric Company Limited, The. Electric discharge lamps. 3,473,071, 10-14-69, Cl. 313-220.
Rigert, Max. Orbiting space vehicle game apparatus. 3,445,110, 5-20-69, Cl. 273-1.
Rigg, Camden A.: *See—*
Kemble, Herbert A.; and Rigg, Camden A.,3,456,686.
Rigg, Shepherd, to United Kingdom Atomic Energy Authority. Integral nuclear reactor with coolant penetrations formed in a separable module of the reactor vessel. 3,442,760, 5-6-69, Cl. 176-51.
Riggin, Lance E.; Willis, Donald R.; and Wuster, Walter L., to United States of America, Navy. Time gated sync separator for television synchronizing waveform. 3,487,167, 12-30-69, Cl. 178-69.5
Riggin, Lance E.: *See—*
Fitch, Tom L.; McMillan, Donald W.; and Riggin, Lance E.,3,421,090.
Riggles, William M., Jr., 30% to Salvatore G. Militana. Combined fingerprint viewing and photographic apparatus. 3,422,446, 1-14-69, Cl. 95-1.1
Riggles, William M., Jr., to Wollard Aircraft Equipment, Inc., mesne. Telescoping conveyance loader. 3,422,477, 1-21-69, Cl. 14-71.
Riggs & Lombard, Inc.: *See—*
Stearns, John M., 3,446,409.
Wilcox, Harold R., 3,446,451.

Riggs, Dean D., to Electron Ohio, Inc. Magnetic trace recorder with trace-following hall effect readout head. 3,425,047, 1-28-69, Cl. 340-174.1

Riggs, Olen Lonnie, Jr.: *See—*
Kuhn, David Albert; and Riggs, Olen Lonnie, Jr.,3,455,822.

Riggs, William D.: *See—*
Haydon, Arthur W.; Herbert, Edward, III.; and Riggs, William D.,3,469,132.

Rightmire, Robert A., to Standard Oil Company, The (Ohio). Electrical energy storage device and method of storing electrical energy. 3,447,968, 6-3-69, Cl. 136-6.

Rightmire, Robert A.; and Buzzelli, Edward S., to Standard Oil Company, The (Ohio). Electrical energy storage device comprising fused salt electrolyte, tantalum containing electode and method for storing electrical energy. 3,462,312, 8-19-69, Cl. 136-100.

Rightmire, Robert A.; and Buzzelli, Edward S., to Standard Oil Company, The (Ohio). Electrical energy storage device comprising molten metal halide electrolyte and tungsten containing electrode. 3,462,313, 8-19-69, Cl. 136-100.

Rightor, Edward, Jr.: *See—*
Whitehead, Howard A.; and Rightor, Edward, Jr.,3,424,159.
Whitehead, Howard A.; and Rightor, Edward, Jr.,3,428,044.

Rigley, Brian: *See—*
Parkin, Leslie; and Rigley, Brian,3,425,723.

Rigney, Ernest G., to Westvaco Corporation. Live-centered chuck assembly for lathe tailstock. 3,486,404, 12-30-69, Cl. 82-38.

Rigo, Jane H. M.: *See—*
Facer, Walter K.; and Rigo, Jane H. M.,3,476,081.

Rigondaud, Guy Frederic, to Le Foyer et Cie. Support and feeding assembly for pens of fountain-pens. 3,423,157, 1-21-69, Cl. 401-242.

Rigondaud, Guy Frederic, to Societe Le Foyer et Cie. Fountain-pens closing devices by means of a cap. 3,459,485, 8-5-69, Cl. 401-246.

Rigor, Herbert W. Pill dispensing container. 3,480,182, 11-25-69, Cl. 221-288.

Rigrod, William W., to Bell Telephone Laboratories, Incorporated. Multiple pass optical cell for laser amplifier. 3,436,665, 4-1-69, Cl. 330-4.3

Rigrod, William W., to Bell Telephone Laboratories, Incorporated. Laser mode selection. 3,466,565, 9-9-69, Cl. 331-94.5

Rigrod, William W., to Bell Telephone Laboratories, Incorporated. Laser with serially coupled mode selecting resonator sections. 3,479,620, 11-18-69, Cl. 331-94.5

Rigsbee, William E.; and Lake, Lelyn D., to Mallory, P. R., & Co., Inc. Muting device. 3,453,547, 7-1-69, Cl. 325-392.

Rigterink, Raymond H., to Dow Chemical Company, The. 1,2,3-Benzotriazin-4 (3H) ones. 3,471,489, 10-7-69, Cl. 260-248.

Rigterink, Raymond H., to Dow Chemical Company, The. Thio-, sulfinyl-, and sulfonylpyridyl phosphorates and phosphorothioates, compositions therof, and methods for parasite control. 3,478,148, 11-11-69, Cl. 424-200.

Riha, James G.; Trevorrow, La Verne E.; and Steindler, Martin J., to United States of America, Atomic Energy Commission. Separation of ruthenium and plutonium by a lithium fluoride sorption technique. 3,458,291, 7-29-69, Cl. 23-337.

Riha, Miloslav; Cernocky, Jiri; and Martinec, Josef, to Elitex, Zavody textilniho strojirenstvi. Weft stop motion for weaving machines. 3,482,608, 12-9-69, Cl. 139-370.

Riha, Miloslav; Cernocky, Jiri; and Zgarba, Milan, to Elitex, Zavody textilniho strojirenstvi. Dust removing arrangement for looms. 3,451,435, 6-24-69, Cl. 139-1.

Rijnsdorp, Johannes E.; van Kampen, Johannes A.; and Bollen, Hans, to Shell Oil Company. Method for the automatic control of the quality of the bottom and top product in a continuous distillation process. 3,428,527, 2-18-69, Cl. 203-1.

Rijssenbeek, Robertus C. J. M., to Page Zellstoffkrepp GmbH. Toilet paper roll comprising one or more layers of paper, and method of making same. 3,469,683, 9-30-69, Cl. 206-58.

Rijssenbeek, Robertus Cornelis Johannes Maria, to Page Zellstoffkrepp G.m.b.H. Absorption pad for the treatment of wounds and for infant care. 3,441,023, 4-29-69, Cl. 128-287.

Rikagaku Kenkyusho: *See—*
Yamamoto, Keita, 3,451,126.
Yanagita, Masaya; Kitahara, Masao; and Mitsui, Takashi, 3,439,028.

Rike, Howard W., to Smith, A. O. Corporation. Sealed switch unit. 3,420,974, 1-7-69, Cl. 200-168.

Rike, Howard W., to Smith, A. O., Corporation. Centrifugal actuator. 3,452,607, 7-1-69, Cl. 73-538.

Rike, Howard W., to Smith, A. O., Corporation. Lock plate for fixed motor rotor bearing. 3,469,897, 9-30-69, Cl. 308-236.

Riker, Walter J., to Dorr-Oliver Incorporated. Continuous rotary disc filters. 3,471,026, 10-7-69, Cl. 210-327.

Rikert, John A.; Carlin, Owen B.; and Lucas, Michael J., to Standard Brands Incorporated. Manufacture of novelty confections. 3,461,822, 8-19-69, Cl. 107-54.

Rikis, Vitolds, to Giannini Scientific Corporation. Beam-forming system. 3,443,086, 5-6-69, Cl. 240-41.1

Rikoff, Fred B. Grounds maintenance apparatus. 3,453,813, 7-8-69, Cl. 56-27.

Rikus, Hans: *See—*
Haberkorn, Erich; and Rikus, Hans,3,486,716.

Riley, Albert Edward: *See—*
Bloom, Martin S.; and Riley, Albert Edward,3,449,145.

Riley, Charles P., Jr., to National Polychemicals, Inc. Alkyl phenyl phosphite inhibitors for alkylated phenols. 3,422,030, 1-14-69, Cl. 252-400.

Riley, Emmett E.: *See—*
Hutton, Gerald E.; Knittle, Gale L.; and Riley, Emmett E.,3,444,337.

Riley, Frank D. Method for flushing and cleaning internal combustion engines. 3,431,145, 3-4-69, Cl. 134-22.

Riley, Harry: *See—*
Patton, Wilbur L.; and Riley, Harry,3,471,602.

Riley, Jack Lendymore, to Imperial Chemical Industries Limited. Process of making molded articles of a thermally stable polyimide. 3,439,082, 4-15-69, Cl. 264-126.

Riley, James E.; and Williams, Billy B., to Texas Instruments, Incorporated. Method of making a capacitor by vacuum depositing manganese oxide as the electrolytic layer. 3,432,918, 3-18-69, Cl. 29-570.

Riley, James M.: *See—*
George, D'Arcy R.; Riley, James M.; and Ross, J. Richard,3,429,657.

Riley, John E.: *See—*
Diehl, Elmer Paul; and Riley, John E.,3,450,999.

Riley, John E., to General Electric Company. Process controller wherein rate action is dependent solely upon the process variable. 3,441,836, 4-29-69, Cl. 323-100.

Riley, John E., to General Electric Company. Synchronous triac control. 3,450,891, 6-17-69, Cl. 307-133.

Riley, John E., to General Electric Company. Force balance servo system in which the resonant circuit ambiguity is eliminated. 3,457,481, 7-22-69, Cl. 318-32.
Ory, Edwin L., Jr.; and Riley, John,3,428,968.

Riley, Joseph J., to Taylor-Winfield Corporation, The. Three phase power pack for welding. 3,460,022, 8-5-69, Cl. 321-8.

Riley, Joseph J., to Taylor-Winfield Corporation, The. Contact synchronizing welding circuit. 3,469,060, 9-23-69, Cl. 219-82.

Riley, Joseph J. Overload control for silicon diodes in resistance welders and the like. 3,484,651, 12-16-69, Cl. 317-22.

Riley, Joseph R., to Kemp, C. M., Manufacturing Company, The. Metal charging of a melting chamber. 3,464,573, 9-2-69, Cl. 214-35.

Riley, Joseph V., to International Business Machines Corporation. Maximizing or controlling the gain of sonic delay lines. 3,460,243, 8-12-69, Cl. 29-600.

Riley, Lloyd D. Cable operated conveyor and freezing box structure. 3,464,229, 9-2-69, Cl. 62-381.

Riley, Orey L.; and Mamoulides, John M., to Louisiana Hydrolec, Incorporated. Apparatus for heating and recovering underground oil. 3,420,301, 1-7-69, Cl. 166-60.

Riley, Orvel K., to Surgical Eng. and Research Corp. Cooling apparatus for dental anesthetization. 3,439,681, 4-22-69, Cl. 128-401.

Riley, Randolph Stewart. Utility pin. 3,456,304, 7-22-69, Cl. 24-162.

Riley, Ray L., to Hughes Aircraft Company. Memory including differentially wound cores generating timing pulses. 3,430,214, 2-25-69, Cl. 340-174.

Riley, Robert H., Jr.; and Wood, John W., to Black and Decker Manufacturing Company, The. Portable sonic hand tool with means for reducing the effects of operator bias upon transducer output and efficiency. 3,485,307, 12-23-69, Cl. 173-117.

Riley, Robert L., to Gulf General Atomic Incorporated, mesne. Freeze-dried membrane and method of treating same. 3,428,584, 2-18-69, Cl. 260-15.

Riley, Russell B., to Hewlett-Packard Company. Push-pull meter circuit for producing direct- current and alternating-current outputs proportional to applied alternating signal. 3,440,538, 4-22-69, Cl. 324-123.

Riley Stoker Corporation: *See—*
Sheikh, Ramsey U., 3,476,090.

Riley, Terence Alexander, to Inertia Switch Limited. Contact means for electrical switches. 3,470,501, 9-30-69, Cl. 335-1.

Riley, Walter J.: *See—*
Battista, Orlando A.; Cruz, Mamerto M., Jr.; and Riley, Walter J.,3,443,261.

Riley, William H., Jr.: *See—*
Rideout, Donald C.; Shuler, Luke M.; and Riley, William H., Jr.,3,486,926.

Rimar Manufacturing, Inc.: *See—*
Martin, Robert I., 3,474,587.

Rimatzki, Walter: *See—*
Eisele, Hermann; Rabus, Friedrich; and Rimatzki, Walter,3,470,854.

Rimer, Kenneth W.: *See—*
Coless, Thomas L.; and Rimer, Kenneth W.,3,480,487.
Coless, Thomas L.; and Rimer, Kenneth Woodrow,3,424,626.

Rimer Manufacturing Company Limited: *See—*
Pollack, James Richard Allan; Pool, Alan Aldred; and Ellis, Graham John, 3,450,600.
Rimington, John Kenneth, to Stramit Corporation, Ltd. Partition assembly. 3,423,892, 1-28-69, Cl. 52-241.
Rimmer, Ronald, to Dowty Fuel Systems Limited. Fluid jet devices. 3,470,894, 10-7-69, Cl. 137-81.5
Rimmer, Stanley M., to Associated Spring Corporation. Automatic length adjustment of helical springs during coiling. 3,427,838, 2-18-69, Cl. 72-15.
Rimmey, Robert R. Hitching device. 3,421,780, 1-14-69, Cl. 280-508.
Rimrock Corporation: *See—*
Stone, Franz T., III, 3,482,652.
Rimsha, Victor E., to United States of America, Army, mesne. Radio frequency attenuator. 3,454,907, 7-8-69, Cl. 333-79.
Rinaldi, Fred J. Flexible electrical connector. 3,452,149, 6-24-69, Cl. 174-68.5
Rinaldi, Josephine L.: *See—*
Larson, Dean W.; and Rinaldi, Josephine L.,3,464,407.
Rinaldi, Russell G.; and Moore, Brian B., to International Business Machines Corporation. Data compression/expansion and compressed data processing. 3,432,811, 3-11-69, Cl. 340-172.5
Rinaldi, Russell G.; and Moore, Brian B., to International Business Machines Corporation. Serial digital adder employing a compressed data format. 3,445,641, 5-20-69, Cl. 235-176.
Rinaldo, Giuseppe. Circuit arrangement for controlling the motors of at least two on-load voltage changers. 3,484,671, 12-16-69, Cl. 318-226.
Rinaldo, Paolo: *See—*
Gambaretto, Gian Paolo; Rinaldo, Paolo; and Palato, Mario,3,479,286.
Rinard, George A.; and Watson, John D., to United States of America, National Aeronautics and Space Administration. Tumbler system to provide random motion. 3,421,053, 1-7-69, Cl. 317-157.5
Rinck, Cornelis Ludwig; and Koroncai, Adam, to Carinthia Elektrogerate Gesellschaft m.b.H., Firma. Shaving head for a dry shaver having a plurality of cutting components. 3,421,214, 1-14-69, Cl. 30-34.1
Rinder, Robert M. Combined writing device and computer input. 3,462,548, 8-19-69, Cl. 178-18.
Rindner, Wilhelm; and Nelson, Roger F., to Raytheon Company. Piezojunction device with an encapsulating P-N junction. 3,443,165, 5-6-69, Cl. 317-234.
Rinecker, Franz G., to American Velcro, Inc. Flexible mouth container. 3,446,420, 5-27-69, Cl. 229-62.
Rinecker, Franz G., to American Velcro, Inc. Signaling device. 3,472,198, 10-14-69, Cl. 116-114.
Rinehart, Dale W., to PPG Industries, Inc. High strength fiber glass. 3,459,568, 8-5-69, Cl. 106-52.
Rinehart, Dale W., to PPG Industries, Inc. Surface crystallized glass and method of producing. 3,464,880, 9-2-69, Cl. 161-1.
Rinehart, Dean C., to General Electric Company. Rotary compressor. 3,423,013, 1-21-69, Cl. 230-139.
Rinehart, Dixie L., to North American Rockwell Corporation. Waste collection assembly. 3,422,985, 1-21-69, Cl. 220-63.
Rinehart, Maynard J., to George, P. D., Company, The. Polyvinyl acetal resins. 3,471,589, 10-7-69, Cl. 260-839.
Rinehart, Robert D.: *See—*
Kristy, John A.; and Rinehart, Robert D.,3,471,850.
Rinehart, Robert E., to Uniroyal, Inc. Furfuryl alcohol isomerization. 3,433,808, 3-18-69, Cl. 260-347.8
Rinehart, Robert E., to Uniroyal, Inc. Chemical composition and process of preparation and use. 3,435,016, 3-25-69, Cl. 260-93.1
Rinehart, Robert E., to Uniroyal, Inc. Isomerization of 2,5-dihydrothiophene-1,1-dioxide. 3,472,873, 10-14-69, Cl. 260-332.1
Rinehart, Rogert E., to Uniroyal, Inc. Cyclooctadienyl palladium chloride complex. 3,435,058, 3-25-69, Cl. 260-429.
Rinehimer, William A.: *See—*
Dohman, Eugene J.; and Rinehimer, William A.,3,424,588.
Rinesch, Rudolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Stationary refractory-lined reaction vessel. 3,452,971, 7-1-69, Cl. 266-13.
Rinesch, Rudolf; and Krupp, Friedrich, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Plant comprising a stationary reaction vessel for converting charging materials into steel. 3,472,500, 10-14-69, Cl. 266-13.
Rinesch, Rudolf; and Strohmeier, Gerolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft, and Metallwerk Plansee Aktiengesellschaft. Device for continuously measuring the temperature of hot media. 3,473,968, 10-21-69, Cl. 136-230.
Ring, Clinton E.; and Loyd, Raymond E., to General Electric Company. Air-conditioner air flow control device. 3,450,021, 6-17-69, Cl. 98-40.
Ring, Douglas H., to Bell Telephone Laboratories, Incorporated. Optical beam redirector. 3,466,111, 9-9-69, Cl. 350-54.
Ring, Gustav Alfred. Telephone handset. 3,426,160, 2-4-69, Cl. 179-100.
Ring, Richard N.: *See—*
Tesoro, Giuliana C.; and Ring, Richard N.,3,420,840.
Ring, Roger D. Pattern tracing instrument. 3,477,685, 11-11-69, Cl. 251-3.
Ring, Roger D. Spool valve. 3,477,692, 11-11-69, Cl. 251-205.
Ring, Wallace H., to Le Voy's Inc. Intravenous catheter placement unit. 3,459,184, 8-5-69, Cl. 128-214.4
Ring, Wallace H.; Pannier, Karl A., Jr.; and Sorenson, James L., to Le Voy's Inc. Catheter placement unit with anesthetic. 3,459,183, 8-5-69, Cl. 128-214.4
Ring, William C.: *See—*
Schrecongost, Ray B.; and Ring, William C.,3,440,324.
Ringarp, Nils E., to Aktiebolaget Leo (A/B Leo). Method for preventing puerperal paresis. 3,461,203, 8-12-69, Cl. 424-153.
Ringdal, Lars, to A/S Ringdal Patenter. Rocking furnace for sintermolding plastic objects. 3,450,395, 6-17-69, Cl. 263-33.
Ringe, Frederick A., to Ford Motor Company. Auxiliary overdrive gear unit for use with an automotive vehicle power transmission mechanism. 3,477,313, 11-11-69, Cl. 74-740.
Ringelhaan, Otmar, to Siemens Aktiengesellschaft. Step voltage generator. 3,421,020, 1-7-69, Cl. 307-227.
Ringelhaan, Otmar, to Siemens Aktiengesellschaft. Method and arrangement for the synchronization of digital time multiplex systems. 3,475,559, 10-28-69, Cl. 179-15.
Ringewaldt, Walter P. Pick-up walking stick. 3,467,116, 9-16-69, Cl. 135-47.
Ringger, Emil, to Schild, A., S.A. Watch regulator having fine adjustment means. 3,442,074, 5-6-69, Cl. 58-109.
Ringholz, Robert C., to Valometer Sales Co. Validating meter apparatus. 3,477,371, 11-11-69, Cl. 101-283.
Ringle, John, III, to Wausau Metals Corporation. Window construction. 3,469,347, 9-30-69, Cl. 49-394.
Ringler, John S., to Bliss, E. W., Company. Sheet material handling apparatus. 3,446,499, 5-27-69, Cl. 271-54.
Ringold, Howard J.; and Bowers, Albert, to Syntex Corporation, mesne. 6-Substituted-6-dehydro androstanes and pregnanes. 3,452,058, 6-24-69, Cl. 260-397.4
Ringold, Howard J.; and Bowers, Albert, to Syntex Corporation. 6-Halo-6-dehydro-progesterones. 3,485,852, 12-23-69, Cl. 260-397.4
Ringold, Howard J.; Bowers, Albert; Rosenkranz, George; and Mancera, Octavio, to Syntex Corporation, mesne. 6-Fluoro steroids. 3,438,978, 4-15-69, Cl. 260-239.55
Ringold, Howard J.; and Rosenkranz, George, to Syntex Corporation, mesne. 16α,17α-Cyclic acetals of 6-halo Δ^4- pregnene-16α,17α-diol-3,20-dione. 3,445,462, 5-20-69, Cl. 260-239.55
Ringold, Howard J.; and Rosenkranz, George, to Syntex Corporation, mesne. 6-Halo-Δ^4-pregnene-16α,17α-diol-3,20-diones. 3,445,490, 5-20-9, Cl. 260-397.4
Ringold, Howard J.; and Rosenkranz, George, to Syntex Corporation, mesne. 2-Hydroxy methyeneandrostanes and esters thereof. 3,452,057, 6-24-69, Cl. 260-397.4
Rings Incorporated: *See—*
Bauman, John A.; and Bender, James O., 3,470,589.
Ringsdorff-Werke GmbH: *See—*
Sckerl, Walter, 3,466,481.
Ringsmuth, Richard J.: *See—*
Fortescue, Peter; Ringsmuth, Richard J.; and Schultz, George M.,3,448,006.
Ringspann Albrecht Maurer K.G.: *See—*
Giese, Emil, 3,443,672.
Ringwald, Eugene L.: *See—*
Dobinson, Frank; and Ringwald, Eugene L.,3,457,237.
Ringwall, Carl G.: *See—*
Boothe, Willis A.; Ringwall, Carl G.; and Kelley, Lonny R.,3,461,892.
Rininger, Paul R.: *See—*
Conry, Lloyd H.; Rininger, Paul R.; and Robertson, Farrell C.,3,481,584.
Rinio, Johannes: *See—*
Romer, Arnold; and Rinio, Johannes,3,458,235.
Rink, George: *See—*
Lang, George H., Sr.; and Rekolt, Herman, 3,481,600.
Rink, Hans: *See—*
Johl, Albert; Hartmann, Albert; and Rink, Hans,3,459,864.
Rink, Richard H., to Northwestern National Bank of Sioux Falls, mesne. Slip form paver. 3,477,354, 11-11-69, Cl. 94-46.
Rinke, Heinrich: *See—*
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich Karl,3,454,671.
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich-Karl,3,461,101.
Oertel, Harald; Rinke, Heinrich; and Thoma, Wilhelm,3,432,456.
Oertel, Harald; Rinke, Heinrich; Moosmuller, Fritz; and Rosendahl, Friedrich-Karl,3,461,102.
Oertel, Harald; Rinke, Heinrich; Rosendahl, Friedrich Karl; and Kleiner, Helmut,3,485,778.
Oertel, Harald; Rinke, Heinrich; Thoma, Wilhelm; and Rosendahl, Friedrich-Karl,3,461,106.
Rosendahl, Friedrich Karl; Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich,3,475,377.

Rinker, Franklin G.; and Gregg, Hendrick J., to Midland-Ross Corporation. Centrifugal liquid seal. 3,455,561, 7-15-69, Cl. 277-13.
Rinker, Heinz: *See—*
Randak, Alfred; Eberbach, Reinhold; Rinker, Heinz; and Treppschuh, Helmut,3,426,833.
Rinker, Walter: *See—*
Becker, Helmut; Jensen, Kurt; Leitz, Ernst; and Rinker, Walter,3,484,149.
Rinkler, Heinrich; Bentz, Francis; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile copolymers containing sulfonyloxamino groups. 3,484,419, 12-16-69, Cl. 260-79.3
Rinkler, Heinrich; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Unsaturated sulphonic acid betaines and a process for their production. 3,484,479, 12-16-69, Cl. 260-501.12
Rinkler, Heinrich: *See—*
Szita, Jeno; Rinkler, Heinrich; Marzolph, Herbert; and Nischk, Gunther,3,470,141.
Rinkus, Robert G.: *See—*
Belcher, Lorne J.; and Rinkus, Robert G.,3,476,889.
Rinne, John E.: *See—*
Miron, Roy R. H.; Huggins, Donald G.; Rinne, John E.; and Summerfelt, Vernon E.,3,423,264.
Rinnman, Harry. Eyeglasses with adjustable magnetically attached temples. 3,422,449, 1-14-69, Cl. 351-121.
Riolfo, Rene: *See—*
Degryse, Michel; and Riolfo, Rene,3,454,366.
Riordan, Hugh E.: *See—*
De Cotiis, Constant J.; Parker, Bernard; and Riordan, Hugh E.,3,438,269.
Riordan, Hugh E., to General Precision Inc. Self-modulating pulse fluid switching valve. 3,431,934, 3-11-69, Cl. 137-119.
Riordan, Hugh E., to Kelsey-Hayes Company. Inductor generator with self-lubricating bearing and constant air gaps for sensing vehicle wheel speed. 3,482,129, 12-2-69, Cl. 310-67.
Riordan, Hugh E., to Singer-General Precision, Inc. Vibrating beam transducer. 3,486,383, 12-30-69, Cl. 73-517.
Riordan, Hugh E.; and Ganther, Robert Joseph, to Singer-General Precision, Inc. Digital fluid accelerometer. 3,469,456, 9-30-69, Cl. 73-515.
Riordan, Hugh E.; Weisbord, Leon; and Paros, Jerome M., to General Precision, Inc. Vibrating-column accelerometer. 3,465,597, 9-9-69, Cl. 73-517.
Evans, John L.; and Riordan, Hugh E.,3,463,182.
Riordan, Hugh F.; De Cotiis, Constant John; and Straut, Harold J., to Singer-General Precision, Inc. Gyro with pneumatic pulse duration modulation pick-off. 3,465,600, 9-9-69, Cl. 74-5.6
Riordan, John D.: *See—*
Libby, Carl F., 3,480,047.
Riordan, Pauline F.: *See—*
Webber, Harold H.; and Riordan, Pauline F.,3,472,289.
Riordan, Robert M.: *See—*
Hearn, Robert T.; and Riordan, Robert M.,3,439,837.
Rioux, Christian Paul Gilbert, to Centre National de la Recherche Scientifique. Electric switches for high currents. 3,474,339, 10-21-69, Cl. 335-47.
Rioux, Christian, to Centre National de la Recherche Scientifique. Devices for producing a high intensity magnetic field. 3,461,350, 8-12-69, Cl. 317-123.
Ripert, Roger L., to Grove Valve and Regulator Company. Valve structure with protected resilient seals. 3,463,447, 8-26-69, Cl. 251-158.
Riple, James C., to Garrett Corporation, The. Pump for use with near boiling fluids. 3,435,771, 4-1-69, Cl. 103-113.
Ripley, Charles C., to United States of America, Atomic Energy Commission. Nuclear reactor hydraulic control drive system. 3,438,856, 4-15-69, Cl. 176-29.
Ripley, Charles C., to United States of America, Atomic Energy Commission. In-reactor control drive system. 3,479,250, 11-18-69, Cl. 176-36.
Ripley, Charles c., to United States of America, Atomic Energy Commission. Fluidic actuated control rod drive system. 3,486,975, 12-30-69, Cl. 176-36.
Ripley Company, Inc.: *See—*
Russell, Alvah A., Jr.; and Pearson, Howard L., 3,425,275.
Ripley, Donald E.: *See—*
Stanton, Leo F.; Ripley, Donald E.; and Mattern, Frank C., Jr.,3,441,966.
Ripley, Kenneth Clay, to Flume Stabilization Systems, Inc., mesne. Passive tank stabilizer with freedom in direction of sway. 3,422,782, 1-21-69, Cl. 114-125.
Rippie, Charles W., to Ashland Oil & Refining Company. Process for treating mineral oils containing mercaptans. 3,450,628, 6-17-69, Cl. 208-189.
Ripple, Ellis C., to Space Conditioning, Inc., mesne. Baseboard heater. 3,448,243, 6-3-69, Cl. 219-366.
Ripple Sole Corporation: *See—*
Hack, Nathan; and Hack, Morton, 3,444,632.
Ripple, William M.: *See—*
Arnold, Alanson J.; McKeough, Elmer L.; Ripple, William M.; Schoeffler, Paul W.; and Smith, Herbert J.,3,448,497.
Ripplinger, Roland E., to General Electric Company. Flip-flop. 3,437,827, 4-8-69, Cl. 307-38.
Rips, Lucien: *See—*
Chaplais, Henri; Pillon, Lucien; Carre, Georges P.; Rips, Lucien; and Gambette, Rene,3,423,152.
Risberg, Robert L., to Cutler-Hammer, Inc. Constant frequency inverter with frequency override. 3,470,449, 9-30-69, Cl. 321-11.
Risch, Karl: *See—*
Keller, Hans; Risch, Karl; and Althen, Winfried,3,457,103.
Rische, Ernst A., to Messer Griesheim GmbH. Method and apparatus for refrigerating foodstuffs. 3,461,680, 8-19-69, Cl. 62-63.
Rische, Ernst A., to Messer Griesheim GmbH. Multistage compression drive in gas separation. 3,477,239, 11-11-69, Cl. 62-38.
Rische, Uwe Wolfgang: *See—*
Gade, Gerhard; Rische, Uwe Wolfgang; and Rosler, Geert,3,475,577.
Riscky, Alexander J. Method of repairing heat cracks on ferrous metal engines. 3,450,575, 6-17-69, Cl. 148-6.14
Risdom Manufacturing Company, The: *See—*
Beard, Walter C., Jr.; and Kotuby, Paul M., 3,446,478.
Risdon, Edward James: *See—*
Meredith, Rupert Frederick Keith; and Risdon, Edward James,3,455,851.
Risdon, Glenn R.: *See—*
Bartletti, John E., 3,423,867.
Risdon Manufacturing Company, The: *See—*
Venus, Frank, Jr., 3,432,080.
Venus, Frank, Jr., 3,437,270.
Venus, Frank, Jr., 3,439,840.
Riseborough, John H. Panel joints. 3,471,187, 10-7-69, Cl. 287-189.36
Riselli, Nicholas V.: *See—*
Bushway, Kenneth C.; and Riselli, Nicholas V.,3,435,734.
Risely, Richard E.: *See—*
Watson, William Keith Ross; and Risely, Richard E.,3,456,062.
Riseman, Jacob: *See—*
Harding, William E.; Perri, John A.; Riseman, Jacob; and Ruder, Winfield S.,3,449,049.
Riseman, John H.: *See—*
Gibson, Edward J.; Shiller, Stanley L.; and Riseman, John H.,3,467,590.
Riseman, John H., to Orion Research Inc. Logarithmic circuit. 3,426,184, 2-4-69, Cl. 235-152.
Rishel, James Paul: *See—*
Cross, George Abraham; and Rishel, James Paul,3,471,347.
Simpson, Robert Alan; Cross, George Abraham; and Rishel, James Paul,3,454,438.
Simpson, Robert Alan; Rishel, James Paul; and Cross, George Abraham,3,423,257.
Risher, Donald B., to United States of America, Navy. Multiport valve. 3,460,574, 8-12-69, Cl. 137-625.66
Rishovd, Sigurd A., to Bishman Manufacturing Company. Wheel alignment gauge adapter. 3,426,991, 2-11-69, Cl. 248-205.
Rishton, Michael L., to Avco Corporation. Actuating unit for circulatory assist systems. 3,456,444, 7-22-69, Cl. 60-62.5
Rising, Donald B.: *See—*
Trasen, Ben; Weyand, John E.; and Rising, Donald B.,3,471,019.
Risk, Daniel W., to Coast Elevator Company. Ball valve. 3,471,119, 10-7-69, Cl. 251-84.
Risk, George, Industries, Inc.: *See—*
Risk, George, 3,424,515.
Risk, George, to Risk, George, Industries, Inc. Window construction having continuously variable transverse light transmission. 3,424,515, 1-28-69, Cl. 350-258.
Risky, Frank A., to Automatic Electric Laboratories, Inc. Apparatus for monitoring a predetermined range of current. 3,466,402, 9-9-69, Cl. 179-18.
Rispoli, Joseph M.; Finucane, Thomas P.; and Sorge, Richard M., to General Foods Corporation. Method of preparing compressed, dehydrated baked goods. 3,473,931, 10-21-69, Cl. 99-90.
Riss, Paul; and Fuchs, Joseph, to Cie Fse des Matieres Plastiques Plasco. Combination closure and seal. 3,454,181, 7-8-69, Cl. 220-39.
Risse, Ralph F.; and Shelley, Howard E., to Westinghouse Air Brake Company. Program controlled contour cutting boring miner. 3,485,531, 12-23-69, Cl. 299-1.
Risse, Willis H.: *See—*
Bennett, Raymond G.; and Risse, Willis H.,3,423,909.
Rissi, Erwin: *See—*
Jucker, Ernst; Ebnother, Anton; and Rissi, Erwin,3,445,464.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,464,983.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,465,003.
Rissman, Edwin Francis: *See—*
Forten, Jeremy; and Rissman, Edwin Francis,3,467,554.
Risso, Giovanni, to La Telemeccanica Elettrica, Ingg. Amati & Gregorini. Pneumatic time delay device. 3,425,679, 2-4-69, Cl. 267-1.

Rissolo, Basil D.: *See—*
Rowley, Walter E., Jr.; and Rissolo, Basil D.,3,448,448.
Rist, Donald H.: *See—*
Whitten, James R.; and Rist, Donald H.,3,450,875.
Ristau, Theodore F., to General Motors Corporation. Mounting arrangement for collapsible steering columns. 3,476,345, 11-4-69, Cl. 248-221.
Rister, Donald R.: *See—*
Paelian, Owen; and Rister, Donald R.,3,483,741.
Ristow, Edward W., to Milwaukee Electric Tool Corporation. Adjustable torque controlled release clutch for power driven tools. 3,451,514, 6-24-69, Cl. 192-56.
Ristuccia, Donald J., to Westinghouse Electric Corporation. Tap changer. 3,467,794, 9-16-69, Cl. 200-11.
Ristuccia, Donald J., to Westinghouse Electric Corporation. Electrical apparatus having fuse and insulated and sealed electrical connections. 3,475,693, 10-28-69, Cl. 337-207.
Risum, H. Mervin: *See—*
Phillips, Carmen S.; and Risum, H. Mervin,3,462,922.
Ritcey, Gordon M.: *See—*
Ashbrook, Allan W.; and Ritcey, Gordon M.,3,438,768.
Ashbrook, Allan W.; Ritcey, Gordon M.; and Joe, Edwin G.,3,455,680.
Ritchart, Stuart T.: *See—*
Blackett, James C.; Flagg, Raymond P.; Livingston, William L.; and Ritchart, Stuart T.,3,421,536.
Ritchey, James F.; Tate, Louis D.; and Waddell, Richard E., to Bell Telephone Laboratories, Incorporated. Telephone reportiong set. 3,480,730, 11-25-69, Cl. 179-5.
Ritchey, James F.: *See—*
Hall, Norris R.; Prince, Terry B.; and Ritchey, James F.,3,428,758.
Ritchey, Robert Donald C. Apparatus and method of handling and embalming viscera. 3,458,910, 8-5-69, Cl. 27-21.
Ritchie, Alexander Crawford; Cheesman, Dennis George; Garside, Peter; and Waring, Juliet Mary, to Allen and Hanburys Limited. 1-Amino-2,3-or 4-phenyl pyridinium salts and derivatives. 3,466,295, 9-9-69, Cl. 260-296.
Ritchie, Alexander Crawford; Cocker, John Derek; and Webb, Godfrey Basil, to Glaxo Laboratories Limited. Intermediates for use in the synthesis of 2- dehydroemetine and their method of preparation. 3,481,934, 12-2-69, Cl. 260-287.
Ritchie, Alexander Crawford: *See—*
Jack, David; Ritchie, Alexander Crawford; Peel, Mervyn Evan; and Harper, Norman James,3,458,521.
Ritchie, Colin Edward: *See—*
Back, Philip John Quarles; and Ritchie, Colin Edward,3,473,276.
Ritchie, David, to Westley, Alan, and Westley, Beatrice Rose. Manually operated artificial respirator. 3,461,866, 8-19-69, Cl. 128-145.7
Ritchie, Donald W.; and: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,676.
Ritchie, Douglas Eugene, to Hewlett-Packard Company. Edge board and flat cable connector. 3,432,802, 3-11-69, Cl. 339-128.
Ritchie, Douglas G.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,472,372.
Ritchie, Fern Joan: *See—*
Ritchie, Ralph W.; Ritchie, Fern Joan; and Piequet, Miriam G.,3,478,440.
Ritchie, Harold D.: *See—*
Ward, Fred L.; Thompson, Edwin A.; and Ritchie, Harold D.,3,442,749.
Ritchie, Ralph W.; Ritchie, Fern Joan; and Piequet, Miriam G. Teaching device. 3,478,440, 11-18-69, Cl. 35-9.
Ritchie, Robert T.: *See—*
Cely, James V.; and Ritchie, Robert T.,3,481,589.
Ritchie, William N.: *See—*
Dickover, Marion Ward; and Ritchie, William N.,3,468,721.
Rite Autotronics Corporation: *See—*
Taylor, Stephen E.; and Sylvester, Gerald W., 3,444,364.
Ritschl, Evzen: *See—*
Marcik, Milos; Jokl, Rudolf; Kubinek, Jiri; and Ritschl, Evzen,3,447,519.
Ritschl, Evzen; and Kubinek, Jiri, to JAWA, narodni podnik. Antiskid brake for a vehicle wheel. 3,428,153, 2-18-69, Cl. 188-181.
Ritsema, Irving R., to Bendix Corporation, The. Method of forming a lash-free universal joint. 3,434,195, 3-25-69, Cl. 29-437.
Ritsema, Irving R., to Bendix Corporation, The. Universal joint. 3,486,349, 12-30-69, Cl. 64-17.
Ritson, Daniel Dickerson; Frazier, Charles; and Coscia, Anthony Thomas, to American Cyanamid Company. Release coating compositions consisting essentially of water soluble salts of carboxymethyl cellulose (or alginic acid) and water-soluble salts of higher aliphatic sulfates. 3,438,794, 4-15-69, Cl. 106-194.
Rittenbach, Otto E., to United States of America, Army. Doppler radar with target velocity direction indicator. 3,422,430, 1-14-69, Cl. 343-9.
Rittenbach, Otto E., to United States of America, Army. Communication by radar beams. 3,460,139, 8-5-69, Cl. 343-6.
Rittenbach, Otto E., to United States of America, Army. Pulsed and continuous wave electromagnetic signal detectors. 3,465,253, 9-2-69, Cl. 325-322.
Rittenbach, Otto E.: *See—*
Fishbein, William; and Rittenbach, Otto E.,3,465,336.
Rittenhouse, Larry E.: *See—*
Baskin, Herbert B.; Evans, Paul F.; and Rittenhouse, Larry E.,3,461,449.
Ritter, Frederick J.: *See—*
Ponczek, George M.; Chambers, Worthy L.; and Ritter, Frederick J.,3,439,204.
Ritter, George E.; and Beam, Edwin A., to Dynamics Corporation of America. Plano-convex, contoured substrate holder for lead attachment. 3,452,915, 7-1-69, Cl. 228-44.
Ritter, George F., Jr., to Libbey-Owens-Ford Glass Company. Oscillatory spray tempering apparatus. 3,454,388, 7-8-69, Cl. 65-348.
Ritter, George F., Jr., to Libbey-Owens-Ford Company. Apparatus for spray cooling glass sheets. 3,476,541, 11-4-69, Cl. 65-268.
Ritter, George F., Jr., to Libbey-Owens-Ford Company. Apparatus for spray cooling glass sheets. 3,476,542, 11-4-69, Cl. 65-268.
Ritter, George F., Jr., to Libbey-Owens-Ford Glass Company. Glass sheet conveying apparatus. 3,485,618, 12-23-69, Cl. 65-273.
Ritter, George F., Jr.; Carson, Frank J.; and Hymore, Frank J., to Libbey-Owens-Ford Company. Method of bending glass sheets. 3,476,540, 11-4-69, Cl. 65-107.
Ritter, George F., Jr.: *See—*
Rahrig, Donald D.; Ritter, George F., Jr.; and Carson, Frank J.,3,485,615.
Ritter, Gerald L.; and Bray, Lane A., to United States of America, Atomic Energy Commission. Solvent extraction process for purifying americium and curium. 3,463,619, 8-26-69, Cl. 23-341.
Ritter, Harry W. Test tube rack and test tube capping devices. 3,483,997, 12-16-69, Cl. 211-76.
Ritter, Heinrich; Heinrich, Ernst; von Brachel, Hanswilli; and Kindler, Horst, to Cassella Farbwerke Mainkur Aktiengesellschaft. Water-insoluble monoazo pyridine dyestuffs. 3,487,066, 12-30-69, Cl. 260-156.
Ritter, Jacob, KG: *See—*
Ritter, Wilhelm, 3,458,264.
Ritter, Joachim A.: *See—*
Santirocco, Louis J.; and Ritter, Joachim A.,3,434,777.
Ritter, Josef: *See—*
Gott, Hans; and Ritter, Josef,3,431,952.
Gott, Hans; and Ritter, Josef,3,469,055.
Ritter, Kaspar, to Kopat Gesellschaft fur Konstruktion, Entwicklung und Patentverwertung m.b.H. & Co. KG. Drive particularly for garden tractors or like vehicles. 3,424,032, 1-28-69, Cl. 74-730.
Ritter, Klaus: *See—*
Gal, Rudi; Haack, Erich; Stach, Kurt; Schaumann, Wolfgang; and Ritter, Klaus,3,462,432.
Ritter Pfaudler Corporation: *See—*
Bowers, Herbert L., 3,444,079.
Greer, Albert H.; and Hardy, Robert W., 3,428,514.
Greer, Albert H.; and Weaver, Marvin P., 3,428,616.
Helfgott, Theodore; and Webber, Paul J., 3,450,354.
Leeds, Harry R.; and McWilliams, Robert J., 3,424,238.
Nunlist, Erwin J.; and Primak, Alex, 3,425,582.
Nunlist, Erwin J., 3,439,940.
Slotkowski, Kenneth G., 3,437,901.
Slotkowski, Kenneth G., 3,449,550.
Valeska, John J., 3,436,046.
Warren, George; and Staples, Basil G., 3,440,707.
Webber, Paul J., 3,424,674.
Ritter, Robert: *See—*
Williamson, William R.; and Ritter, Robert,3,473,391.
Ritter, Wilhelm, to Ritter, Jacob, KG. Writing implement. 3,458,264, 7-29-69, Cl. 401-111.
Ritterman, Paul F., to Gulton Industries, Inc. Negative electrode and electrochemical battery containing same. 3,483,259, 12-9-69, Cl. 136-6.
Rittman, Dieter, to Prontor-Werk Alfred Gauthier, G.m.b.H. Timing device for setting the exposure time for a photographic camera equipped with an electronic timing device. 3,468,235, 9-23-69, Cl. 95-53.
Rittman, Dieter: *See—*
Starp, Franz W. R.; and Rittman, Dieter,3,460,451.
Rittmann, Dieter: *See—*
Rentschler, Waldemar T.; and Rittmann, Dieter,3,476,030.
Rittmayer, Gerhard, to Siemens Aktiengesellschaft. Hemispherical luminescence diode producing a real image of the P-N junction. 3,473,067, 10-14-69, Cl. 313-108.
Ritz, Alvin H., to Baxter Laboratories, Inc. Pre-filled syringe. 3,438,549, 4-15-69, Cl. 222-83.5
Ritz, Ernst; and Brazel, Rudolf, to Ritz-Motorenbau KG. Device for producing water streams in swimming pools. 3,476,106, 11-4-69, Cl. 128-66.
Ritz, Ludolf, to Gesellschaft fur Kernforschung m.b.H. Steam-cooled nuclear reactor. 3,448,007, 6-3-69, Cl. 176-59.

Ritz-Motorenbau KG: *See—*
Ritz, Ernst; and Brazel, Rudolf, 3,476,106.
Ritze, Arno: *See—*
Ruhle, Hans; Schottle, Ulrich; Thiele, Heinz; Schwahn, Josef; and Ritze, Arno,3,452,656.
Ritzema, Donald E.: *See—*
DeLong, Herbert K.; and Ritzema, Donald E.,3,447,973.
Ritzenthaler, Richard L.: *See—*
Cole, George S.; and Ritzenthaler, Richard L.,3,436,054.
Ritzerfeld, Elvira nee Weiss: *See—*
Ritzerfeld, Wilhelm; and Ritzerfeld, Gerhard, 3,470,357.
Ritzerfeld, Gerhard. Numbering arrangement for selective printing machines. 3,420,163, 1-7-69, Cl. 101-76.
Ritzerfeld, Gerhard. Line printing and recording method and apparatus. 3,464,349, 9-2-69, Cl. 101-91.
Ritzerfeld, Gerhard. Apparatus for printing and recording on cards. 3,468,245, 9-23-69, Cl. 101-91.
Ritzerfeld, Gerhard. Electrostatically chargeable printing form. 3,468,254, 9-23-69, Cl. 101-401.1
Ritzerfeld, Gerhard. Method of producing and regenerating regenerable printing forms. 3,479,953, 11-25-69, Cl. 101-470.
Ritzerfeld, Gerhard; and Mache, Gunther. Method of making chargeable image structures. 3,483,027, 12-9-69, Cl. 117-212.
Ritzerfeld, Gerhard: *See—*
Ritzerfeld, Wilhelm; and Ritzerfeld, Gerhard,3,470,357.
Ritzerfeld, Wilhelm; and Ritzerfeld, Gerhard, to Ritzerfeld, Elvira nee Weiss, and said Ritzerfeld, Gerhard, heirs of said Ritzerfeld, Wilhelm, deceased, assor to said Ritzerfeld, Gerhard. Method of producing a printing form and of evaluating data contained therein. 3,470,357, 9-30-69, Cl. 235-61.11
Ritzert, John A.; and Lavery, John R., to National Cash Register Company, The. Manually operable card reader. 3,456,117, 7-15-69, Cl. 250-219.
Ritzinger, Frederick R.: *See—*
Whitmore, Henry B.; Lewis, Sidney T.; Ritzinger, Frederick R.; and Harris, Leonard,3,436,841.
Riu Pla, Claudio. Nasal expander-inhaler. 3,460,533, 8-12-69, Cl. 128-206.
Rius, Carlos C.: *See—*
Mognet, Jean; Torello, Manuel S.; and Rius, Carlos C.,3,445,141.
Riusech, Sergio. Sub-surface irrigation system. 3,442,087, 5-6-69, Cl. 61-13.
RIV Officine di Villar Perosa Societa per Azioni: *See—*
Conti, Giovanni, 3,458,207.
RIV-SKF Officine di Villar Perosa S.p.A.: *See—*
Giulietti, Luciano, 3,431,896.
Riva, Aldo, to Wander, A., Dr., S.A. Sustained-release tablets, a process and a composition for their preparation. 3,459,850, 8-5-69, Cl. 424-22.
Riva, William. Board game apparatus with magnetic playing pieces positionable by chance. 3,427,029, 2-11-69, Cl. 273-135.
Rivard, Emile A. Fork for opening muffins. 3,462,834, 8-26-69, Cl. 30-137.
Rivas, Alberto Q.; Parker, Laurence R.; and Jones, Terrell M., to Esso Research and Engineering Company. Concrete liquefied gas vessel. 3,457,890, 7-29-69, Cl. 114-74.
Rive, Charles E. Light ray educational apparatus. 3,486,243, 12-30-69, Cl. 35-19.
Rivedal, John C.; and Valentine, Gordon A., to Stanley Aviation Corporation. Catapult-assisted tractor rocket escape system. 3,442,473, 5-6-69, Cl. 244-122.
Rivera, Nazario J., to Velazco, Emil. High intensity light source. 3,467,823, 9-16-69, Cl. 240-81.
Rivers, Charles F. Shear pin safety hub. 3,435,695, 4-1-69, Cl. 74-412.
Rivers, Frank J.: *See—*
Rivers, Joe F.; and Rivers, Frank J.,3,434,408.
Rivers, Hubert M., to Calgon Corporation. Method and apparatus for controlling boiler systems. 3,428,557, 2-18-69, Cl. 210-59.
Rivers, Hubert M., to Calgon Corporation. Automatic boiler water conditioning. 3,447,510, 6-3-69, Cl. 122-382.
Rivers, Joe F.; and Rivers, Frank J. Vehicle window air vent. 3,434,408, 3-25-69, Cl. 98-2.
Rivers, Richard D.; and York, Jimmie D., Jr., to American Air Filter Company, Inc. Gas filter mounting structure. 3,460,322, 8-12-69, Cl. 55-484.
Rivers, Walter. Auxiliary motor mounting bracket. 3,462,102, 8-19-69, Cl. 248-4.
Rives, Jean Joseph, to Ciments Lafarge. Method of manufacture of super-white cement. 3,425,853, 2-4-69, Cl. 106-101.
Rivetmaster, Inc.: *See—*
Young, Dale L., 3,423,986.
Rivett, Anthony B., to Girling Limited. Viscous cushioning means for disk brakes. 3,455,416, 7-15-69, Cl. 188-73.
Rivetta, Gianfranco: *See—*
Ferrari, Agostino; Callegari, Luciano; and Rivetta, Gianfranco,3,476,886.
Rivetti di Valcervo, Stefano. Sanitary assembly of restricted size. 3,458,871, 8-5-69, Cl. 4-3.
Riviana Foods Inc.: *See—*
Kinsey, Dale Norman; and Hunnell, John W., 3,481,960.
Lynn, Lawrence; and Anderson, Roy M., 3,432,309.
Riviere, Francois, to Robertshaw Controls Company. Rotating valves, particularly for gas, to two operative positions located on each side of a closed position. 3,451,287, 6-24-69, Cl. 74-483.
Rivin, Donald; and Aron, Jerome, to Cabot Corporation. Carbon based catalysts and compositions producible therefrom. 3,479,299, 11-18-69, Cl. 252-426.
Rivin, Donald; and Aron, Jerome, to Cabot Corporation. Carbonaceous products. 3,479,300, 11-18-69, Cl. 252-430.
Rivin, Donald; Aron, Jerome; and Richards, Leighton B., to Cabot Corporation. Sulfonated carbon blacks. 3,442,679, 5-6-69, Cl. 106-307.
Rivin, Evgeny Izrailevich. Resilient anti-vibration support. 3,442,475, 5-6-69, Cl. 248-24.
Rivin, Evgeny Izrailevich. Elastic vibration-proof support. 3,460,786, 8-12-69, Cl. 248-22.
Rivinius, Theodore. Blade mountings and controls for road graders. 3,421,589, 1-14-69, Cl. 172-4.5
Rivolier, Charles, to Societe Anonyme D.B.A. Window raising device. 3,444,649, 5-20-69, Cl. 49-352.
Rix, Frederick Noel; and Wetton, Cecil Kenneth, to Lesney Products & Co., Limited. Toy or model vehicles. 3,482,351, 12-9-69, Cl. 46-201.
Rix, Frederick Noel: *See—*
Perryman, Ronald Thomas; and Rix, Frederick Noel,3,462,878.
Rixon Electronics, Inc.: *See—*
Myrick, Joseph C., 3,476,876.
Rizhsky Elektrolampovy Zavod: *See—*
Zilberman, Evgeny Konstantinovich; and Morin, Erik Pavlovich, 3,452,322.
Rizner, John S., to Varco Incorporated. Transfer coating and paper. 3,446,647, 5-27-69, Cl. 117-36.1
Rizo-Patron R., Alfonso. Speaker system. 3,477,540, 11-11-69, Cl. 181-31.
Rizzi, Victor. Snap-on support for price tag holder. 3,469,813, 9-30-69, Cl. 248-475.
Rizzier, John A., to Sunbeam Corporation. Vacuum cleaner. 3,438,081, 4-15-69, Cl. 15-327.
Rizzitano, Fortunato J.: *See—*
Abkowitz, Stanley; Larson, Warren L.; and Rizzitano, Fortunato J.,3,475,142.
Rizzo, Angelo. Pocket guard. 3,477,068, 11-11-69, Cl. 2-252.
Rizzo, Vincent J.: *See—*
Bechtold, Arthur W.; and Rizzo, Vincent J.,3,450,814.
Rizzoli Editore S.p.A.: *See—*
Monzali, Aristide, 3,462,210.
Rizzotto, Robert S.: *See—*
Buzzell, Harold O.; and Rizzotto, Robert S.,3,455,754.
Ro-Search, Incorporated: *See—*
Kaufman, Curt E., 3,473,178.
Rollman, Ernest E., 3,466,684.
Szerenyl, Andrew; and Liebscher, Anton, 3,426,120.
Roach, Benjamin H., to Ryder Supply Company. Silage distributing apparatus. 3,446,372, 5-27-69, Cl. 214-17.
Roach, Erskine E.: *See—*
Broussard, Douglas E.; Hemphill, Dean P.; Bolling, Thomas J., Jr.; and Roach, Erskine E.,3,463,518.
Roach, Gay W. Cotton bale sampling machine. 3,464,298, 9-2-69, Cl. 83-1.
Roach, Peter Francis, to United Kingdom Atomic Energy Authority. Liquid metal monitor. 3,481,181, 12-2-69, Cl. 73-61.
Roach, Peter Francis; and Davidson, Daniel Fraser, to United Kingdom Atomic Energy Authority. Liqud metal monitors. 3,462,997, 8-26-69, Cl. 73-61.
Roach, Thomas J., to International Rectifier Corporation. Method of preparing semi-conductor wafers for diffusion. 3,471,341, 10-7-69, Cl. 148-186.
Roach, William J., to Oxford Laboratories. Liquid dispensing device. 3,452,901, 7-1-69, Cl. 222-49.
Roach, William J.: *See—*
Persidsky, Maxim D.; and Roach, William J.,3,440,913.
Roahen, Dan Crabill: *See—*
Wakeman, Alden Harvey; Roahen, Dan Crabill; and Knox, Rodney Lee,3,465,439.
Roald, Arnvid S.; and De Oude, Nicolaas T., to Procter & Gamble Company, The. Granular enzyme-containing laundry composition. 3,451,935, 6-24-69, Cl. 252-135.
Roan Selection Limited: *See—*
Mayling, Albert A., 3,455,679.
Roane, Asa E., to Kysor Industrial Corporation. Air conditioning system for heating, cooling and dehumidifying automotive vehicles. 3,421,576, 1-14-69, Cl. 165-23.
Roane, Robert N. Chair. 3,485,530, 12-23-69, Cl. 297-445.
Roantree Electro-Mech Corporation: *See—*
Roantree, William J., 3,434,357.
Roantree, William J., 3,442,160.
Roantree, William J., to Roantree Electro-Mech Corporation. Linear power amplifier mechanism. 3,434,357, 3-25-69, Cl. 74-25.

Roantree, William J., to Roantree Electro-Mech Corporation. Multiple drill head. 3,442,160, 5-6-69, Cl. 77-22.
Roantree, William J.: *See—*
Nelson, Lee H.; and Roantree, William J.,3,475,746.
Roanwell Corporation: *See—*
Carbonaro, Vito L., 3,460,080.
Morrison, Louis A., 3,454,912.
Robach, Donald L.: *See—*
Bedrosian, Karakian; and Robach, Donald L.,3,445,240.
Robandt, William F.: *See—*
Spiegel, Raymond W.; Robandt, William F.; and Platt, Clark I.,3,429,444.
Robards, Preston O., to Portec, Inc. Handbrake mechanism. 3,460,401, 8-12-69, Cl. 74-508.
Robaszkiewicz, Gerald D.: *See—*
Hall, Donivan L.; and Robaszkiewicz, Gerald D.,3,486,584.
Hall, Donivan L.; Martin, Orval J.; and Robaszkiewicz, Gerald D.,3,474,885.
Robatel Slpi: *See—*
Ranc, Jean, 3,430,772.
Robb, Blanche. Calorie-food value counter and pill container. 3,471,957, 10-14-69, Cl. 210-82.
Robb, Howard E.: *See—*
Anspon, Harry D.; and Robb, Howard E.,3,472,916.
Robb, William W. Collapsible trailer. 3,429,609, 2-25-69, Cl. 296-23.
Robb, Winfred Edward, Jr., to Kel Corporation, mesne. Adjustable whip antenna for portable receiver. 3,435,456, 3-25-69, Cl. 343-702.
Robba, William A.: *See—*
Turkat, Michael; and Robba, William A.,3,442,617.
Robbi, Anthony D.; and Tuska, James W., to RCA Corporation. Switching system for driving read-write lines in a magnetic memory. 3,469,245, 9-23-69, Cl. 340-174.
Robbins & Myers, Inc.: *See—*
Fuller, Forrest E.; and Irwin, Wilfred W., 3,445,705.
Hennessey, Timothy W., 3,440,463.
Schwartz, Christian J., 3,477,125.
Robbins, Albert L.; and McKinley, Horace F. Method and apparatus for determining optimum bonding parameters for thermoplastic material. 3,444,732, 5-20-69, Cl. 73-150.
Robbins and Bendror Associates, Inc.: *See—*
Glasgow, Paul J., 3,478,378.
Robbins Aviation, Inc.: *See—*
Lowe, Edwin C., 3,427,034.
Lowe, Edwin C., 3,428,076.
Robbins, Daniel H.: *See—*
Fairbanks, Henry N.; and Robbins, Daniel H.,3,472,590.
Robbins, David L.: *See—*
Lewis, Albert; Robbins, David L.; and Kelley, Lawrence W.,3,484,259.
Robbins, Edward S., Jr. Portable seamless continuous trough for liquid and support therefor. 3,446,325, 5-27-69, Cl. 193-25.
Robbins, Eldred E., to Phillips Petroleum Company. Valve for filling bottles, containers and the like and method. 3,460,590, 8-12-69, Cl. 141-7.
Robbins, Eric John, to United Kingdom Atomic Energy Authority. Magneto-hydro dynamic generators. 3,426,222, 2-4-69, Cl. 310-11.
Robbins, Felix & Robbins: *See—*
Luketa, Frank J., 3,478,461.
Robbins, Harry: *See—*
Willardson, Robert K.; and Robbins, Harry,3,443,167.
Robbins, James S., and Associates, Inc.: *See—*
Klein, Harold T.; and Klein, Harold T., 3,463,247.
Poage, Leland B., 3,454,114.
Robbins, Jim, Seat Belt Co.: *See—*
Hopka, Thomas; and Stoffel, Robert W., 3,459,440.
Hopka, Thomas, 3,467,995.
Hopka, Thomas; and Stoffel, Robert W., 3,472,552.
Hopka, Thomas; and Stoffel, Robert W., 3,473,201.
Lewis, Gerald F.; and Jones, David P., 3,431,019.
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J., 3,439,932.
Lewis, Gerald F.; Jones, David P.; and Palmieri, Ronald J., 3,442,529.
Radke, Donald G.; and Booth, Frederick C., 3,438,674.
Radke, Donald G.; and Booth, Frederick C., 3,446,533.
Radke, Donald G.; and Booth, Frederick C., 3,456,981.
Smith, Lawrence H.; and Partridge, Gerald J., 3,445,078.
Stoffel, Robert W.; and Stevenson, Wendell, 3,432,115.
Stoffel, Robert W., 3,442,467.
Stoffel, Robert W.; and Stevenson, Wendell, 3,486,791.
Stoffel, Robert W., 3,486,792.
Robbins, Lloyd L. Muscle conditioning and building apparatus for use by skiers. 3,462,141, 8-19-69, Cl. 272-57.
Robbins, Max L.: *See—*
Kahn, Donald J.; Furer, Frieder S.; and Robbins, Max L.,3,451,931.
Robbins, Max L.; Leder, Frederic; and Chludzinski, George R., to Esso Research and Engineering Company. Preparation of overbased sulfonates. 3,429,811, 2-25-69, Cl. 252-33.
Robbins, Neal R.: *See—*
Mets, Franklin C.; and Robbins, Neal R.,3,460,825.
Robbins, Owen G.: *See—*
Glenn, John D.; Robbins, Owen G.; Schwemer, Warren C.; and Silverman, Joseph R.,3,431,753.
Robbins, Robert C., to Stanford Research Institute. Carbon monoxide analyzer. 3,420,636, 1-7-69, Cl. 23-254.
Robbins, Robert: *See—*
Wagner, Walter D.; King, Philip E.; Caloccia, Ernest; and Robbins, Robert,3,470,483.
Robbins, Roland W., Jr., to United States of America, Navy. Hydraulically actuated mercury trim system. 3,437,065, 4-8-69, Cl. 114-16.
Robbins, Samuel B., to General Motors Corporation. Cantilevered contact blade and return spring with reversely bent portion. 3,479,478, 11-18-69, Cl. 200-153.
Robbins, Saul. Walking doll with ambulatory traction-drive mechanism. 3,484,988, 12-23-69, Cl. 46-247.
Robbins, Vernon E.: *See—*
Priese, Werner K.; and Robbins, Vernon E.,3,439,897.
Robbins, Woodrow Wilson, to American Cyanamid Company. Alkylation process for cationic triazole dye. 3,438,963, 4-15-69, Cl. 260-157.
Roberson, Charles F. Matrix washer and drier. 3,459,202, 8-5-69, Cl. 134-99.
Roberson, Leslie L., to Bell & Howell Company. Reel. 3,486,709, 12-30-69, Cl. 242-71.8
Roberson, Raymond F., to International Harvester Company. Implement supporting wheel. 3,448,815, 6-10-69, Cl. 172-291.
Roberson, Seth T., Jr., to Helmerich & Payne, Inc. Odorizer transfer system. 3,456,451, 7-22-69, Cl. 62-55.
Robert, Andre Charles; and Tauzia, Jacques, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Automatic signal searching receiver. 3,432,758, 3-11-69, Cl. 325-420.
Robert E.; and Pond, Norman H., to Teledyne Inc. Linear beam tube having an isulated, symmetrically loct Linear beam tube having an insulated, symmetrically located, electrode of reactive material in the collector assembly. 3,448,324, 6-3-69, Cl. 315-3.5
Robert, Henri: *See—*
Frossard, Remy; Hetzel, Max; Robert, Henri; and Haring, Henri,3,446,006.
Hetzel, Max; Haring, Henri; and Robert, Henri,3,428,937.
Hetzel, Max; Haring, Henri; and Robert, Henri,3,481,137.
Robert, Jean-Pierre, to Ugine Kuhlmann. Acrylic resins. 3,485,809, 12-23-69, Cl. 260-86.1
Robert, Jean: *See—*
Carre, Roland; and Robert, Jean,3,438,034.
Robert, Roderick C.: *See—*
Hill, Daryl G.; and Robert, Roderick C.,3,451,225.
Roberts, Albert L. Method of preparing a synthetic stone material. 3,450,808, 6-17-69, Cl. 264-120.
Roberts, Albert, to North British Rubber Company Limited, The. Method of making belts. 3,441,641, 4-29-69, Cl. 264-229.
Roberts, Arthur H. Molded hollow plastic articles of manufacture rigidified with rigid resinous compositions and process for their manufacture. 3,420,729, 1-7-69, Cl. 161-7.
Roberts, Bob R.; and Etter, William A., to Fisher Governor Company. Valve actuator. 3,427,930, 2-18-69, Cl. 92-12.
Roberts, Brinley; and Stephenson, Robert James, to Monsanto Chemicals Limited. Method of foaming polymeric particles containing a foaming agent. 3,480,570, 11-25-69, Cl. 260-2.5
Roberts, Carleton W.: *See—*
Hall, Richard H.; Lamson, Junior J.; Sikkema, Andrew J.; and Roberts, Carleton W.,3,424,823.
Roberts, Carleton W., to Dow Chemical Company, The. (Decamethylenedithio)dialanine compounds. 3,444,222, 5-13-69, Cl. 260-481.
Roberts, Carleton W., to Dow Chemical Company, The. (ρ-Phenylenebis (methylenethio)) dialanine compounds. 3,444,239, 5-13-69, Cl. 260-470.
Roberts, Carleton W.; and Pews, Richard Garth, to Dow Chemical Company, The. Methods for the synthesis of 1-nitro-3- (1-methyl-3,3,3-tetrachloropropyl) styrene and intermediate useful for same. 3,424,803, 1-28-69, Cl. 260-646.
Roberts, Carleton W.; and Travis, Gale D., to Dow Chemical Company, The. 5,8-Methanobenz(f)isoindoline-2-acetic acid compounds. 3,422,117, 1-14-69, Cl. 260-326.
Roberts, Carleton W.; and Travis, Gale D., to Dow Chemical Company, The. N-(carboxy hydrocarbon)-1,2,3,4,9,9-hexachloro-1,4,4a,5,6,7,8,8a-octahydro-1,4-methanonaphthalene- 6,7-dicarboximides. 3,440,248, 4-22-69, Cl. 260-326.
Roberts, Carleton W.; and Travis, Gale D., to Dow Chemical Company, The. (Trichloromethylthio)dicarboximide compound. 3,452,045, 6-24-69, Cl. 260-326.
Roberts, Carlton E.: *See—*
Rauch, Stewart E., Jr.; and Roberts, Carlton E.,3,479,260.

Roberts, Cecil P.: *See—*
Foss, George J.; Runco, Joseph C.; and Roberts, Cecil P.,3,438,174.
Roberts, Charles B.; and Toner, Darell D., to Dow Chemical Company, The. Trimethylsiloxyaluminum dihydride and method of preparation. 3,444,227, 5-13-69, Cl. 260-448.
Roberts, Charles C.; and Hannan, David G., to Mine Safety Appliances Company. Detection of volatile hydrazine compounds. 3,455,656, 7-15-69, Cl. 23-254.
Roberts, Charles G. Internal combustion engine with improved intake and exhaust. 3,429,303, 2-25-69, Cl. 123-59.
Roberts, Charles G. Internal combustion engine with improved intake and exhaust. 3,457,904, 7-29-69, Cl. 123-59.
Roberts, Charles H., to Tools for Bending, Inc. Tube bending mandrel. 3,455,142, 7-15-69, Cl. 72-466.
Roberts, Clifford L. Cast concrete post. 3,451,657, 6-24-69, Cl. 256-19.
Roberts, Clifton D. Sponge mop adapter. 3,466,692, 9-16-69, Cl. 15-152.
Roberts, Dan T., to Iron City Iron Works. Welding flux for nodular cast iron. 3,479,230, 11-18-69, Cl. 148-24.
Roberts, Dennis M.: *See—*
Bowman, Warren; Roberts, Dennis M.; and Sellger, Paul G.,3,476,694.
Roberts, Derek Aubrey: *See—*
Clarke, George Frederick; and Roberts, Derek Aubrey,3,423,048.
Roberts, Deryck T.: *See—*
Jago, John J.; and Roberts, Deryck T.,3,473,905.
Roberts, Donald L.: *See—*
Popick, Harvey; and Roberts, Donald L.,3,472,998.
Roberts, Earl W., Jr.; and Griffin, Richard H., to General Electric Company. Low power toggle switch mechanism. 3,457,383, 7-22-69, Cl. 200-67.
Roberts, Edmund G. Russell, to Hall, J. & E., Limited, and Shipowners Refrigerated Cargo Research Association. Marine refrigeration. 3,486,553, 12-30-69, Cl. 165-2.
Roberts, Edward M.; Claxton, George P.; and Fallon, Frances G., to Richardson-Merrell Inc.Alpha-fluorenyl and alpha-fluorenylidene-*p*-tolyl derivatives of heterocyclic alcohols and ketones. 3,481,929, 12-2-69, Cl. 260-240.
Roberts, Edward S.; and Christmann, Ludwig J. Purification of high boiling aromatic compounds by codistillation with a chlorinated diphenyl solvent. 3,425,915, 2-4-69, Cl. 203-47.
Roberts, Elbert E., to Smith, Gloria E., and Smith, Ralph G. Snow and ice removal system. 3,455,041, 7-15-69, Cl. 37-195.
Roberts, Eugene, to City of Hope Medical Center. Stabilization of enzymes. 3,448,009, 6-3-69, Cl. 195-63.
Roberts, F. Alexander: *See—*
Fredriksson, Oke A.; Fossati, F. Nicholas; and Roberts, F. Alexander,3,449,657.
Roberts, Frank, Jr., to United Aircraft Corporation. Fuel cell with absorbent means for removing or supplying electrolyte. 3,442,712, 5-6-69, Cl. 136-86.
Roberts, Frank, Jr., to Leesona Corporation, mesne. Process of making multiporous fuel cell electrodes. 3,471,287, 10-7-69, Cl. 75-208.
Roberts, Fred M.: *See—*
Castillo, Tomas R.; and Roberts, Fred M.,3,420,475.
Roberts, Fred T., & Company: *See—*
Roberts, Robert E., 3,423,494.
Roberts, Robert E., 3,458,611.
Roberts, George F.: *See—*
Morris, Fred J.; Roberts, George F.; and Waters, Robert L.,3,461,387.
Roberts, George G.: *See—*
de Man, Heiko T.; Roberts, George G.; and Nakagawa, Henry,3,430,187.
Roberts, George Leathwhite; Hoelscher, Harold Ewald; and Cauwenberg, Winfred Joseph, to American Cyanamid Company. Apparatus for making titanium dioxide pigment. 3,424,561, 1-28-69, Cl. 23-286.
Roberts, Glenn H.: *See—*
Lagermasini, Joseph P.; Leunis, Robert R.; Roberts, Glenn H.; and Tiala, Lauri D.,3,446,408.
Roberts, Gordon. Textile carding. 3,470,586, 10-7-69, Cl. 19-99.
Roberts, Grady L., to Monsanto Company. Control of alkylation catalyst activity. 3,470,261, 9-30-69, Cl. 260-671.
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan, to Imperial Chemical Industries of Australia and New Zealand Limited. Bicyclo(2,2,2)oct-5-ene-2,3-dicarboxylic anhydrides as herbicides. 3,476,546, 11-4-69, Cl. 71-88.
Roberts, Harold G., to Chicago Dryer Company. Electrical ignition system. 3,476,492, 11-4-69, Cl. 431-71.
Roberts, Harry. Windshield wiper blade. 3,421,175, 1-14-69, Cl. 15-250.42
Roberts, Hobart V., Jr.: *See—*
Deibel, Raymond A.; Riester, William C.; and Roberts, Hobart V., Jr.,3,466,905.
Roberts, Hugh H.: *See—*
Baumann, Arthur N.; and Roberts, Hugh H.,3,449,082.
Bell, Benjamin P.; and Roberts, Hugh H.,3,437,452.
Roberts, Hugh J., to Corn Products Company. Composition of matter. 3,453,262, 7-1-69, Cl. 260-233.3
Roberts, Hugh Leithead: *See—*
Campbell, Alastair; and Roberts, Hugh Leithead,3,478,034.
Roberts, Hugh Leithead; and Hooper, George Wallace, to Imperial Chemical Industries Limited. Oxidation of mercurous salts. 3,471,566, 10-7-69, Cl. 260-604.
Roberts, James E., to International Nickel Company, Inc., The. Fluid-mold casting slag. 3,444,010, 5-13-69, Cl. 148-22.
Roberts, James H., to Jeffrey Galion Manufacturing Company. Motor grader. 3,454,109, 7-8-69, Cl. 172-781.
Roberts, James H. Method and apparatus for separating nut meats from shells. 3,478,875, 11-18-69, Cl. 209-2.
Roberts, James S., to Milwaukee Chaplet & Mfg. Company, Inc. Stepping cam cartridge assembly. 3,470,335, 9-30-69, Cl. 200-38.
Roberts, Jeremy Brown; Jones, Dallas E.; and Badran, Adnan M., to United Fruit Company. Method of preparing enzymes from plant tissues containing phenols. 3,440,143, 4-22-69, Cl. 195-66.
Roberts, John A., to General Electric Company. Electrical vapor detector with indirectly heated cathode. 3,439,262, 4-15-69, Cl. 324-33.
Roberts, John A., to General Electric Company. Halogen gas detector with inherent temperature sensing. 3,471,746, 10-7-69, Cl. 315-111.
Roberts, John A.; and Surprenant, Norman F., to Brunswick Corporation. Particulate and biological filters. 3,482,703, 12-9-69, Cl. 210-489.
Roberts, John A.: *See—*
Hewlett, Clarence W., Jr.; and Roberts, John A.,3,483,359.
Roberts, John Francis Lloyd: *See—*
Delves, Allan Kenneth; East, Anthony Julian; McCreath, Michael King; and Roberts, John Francis Lloyd,3,471,446.
Roberts, John H.: *See—*
Kliewer, George G.; and Roberts, John H.,3,474,489.
Roberts, John R., Jr. Transistor radio holster. 3,482,748, 12-9-69, Cl. 224-26.
Roberts, John R.; and Alexander, Michael J. Transport. 3,469,802, 9-30-69, Cl. 244-12.
Roberts, Joseph A., to Reliance Sheet & Strip Co. Metal sheet handling device. 3,463,330, 8-26-69, Cl. 214-6.
Roberts, Joseph P., 1/2 to Smith, William F. Telescoping, spring-loaded, hydraulically damped shock absorber. 3,447,797, 6-3-69, Cl. 267-34.
Roberts, Larry P.: *See—*
Luebbert, William K.; Geen, Joseph H.; and Roberts, Larry P.,3,471,186.
Roberts, Lee. Cleaning means for liquid dispensers. 3,430,639, 3-4-69, Cl. 134-169.
Roberts, Martin, to American Hospital Supply Corporation, mesne. Paracentesis stylet catheter. 3,459,188, 8-5-69, Cl. 128-347.
Roberts, Marvin E., to Wills, B. C., & Company. Security box. 3,433,185, 3-18-69, Cl. 109-55.
Roberts, Maurice Swift: *See—*
Place, Harold; and Roberts, Maurice Swift,3,447,757.
Roberts, Mervin F., to T.F.H. Publications, Inc. Magnetic aquarium pump. 3,481,586, 12-2-69, Cl. 259-96.
Roberts, Morris W.: *See—*
Bryan, Morris M., Jr.; and Roberts, Morris W.,3,430,426.
Bryan, Morris M., Jr.; and Roberts, Morris W.,3,441,984.
Bryan, Morris M., Jr.; and Roberts, Morris W.,3,448,492.
Bryan, Morris M., Jr.; and Roberts, Morris W.,3,448,936.
Roberts, Morris W.; and McLain, Milton E., Jr., to United States of America, Atomic Energy Commission. Apparatus for centrifuging electrically conducting liquids. 3,426,967, 2-11-69, Cl. 233-28.
Roberts, Reginald F., Jr.: *See—*
Boudreauz, Joseph R.; and Roberts, Reginald F., Jr.,3,446,795.
Roberts, Rene M. J., to Union Carbide Corporation. Copolymers of α, β-alkylenimines and γ-lactones. 3,481,907, 12-2-69, Cl. 260-78.3
Roberts, Richard C.; and Kane, James F., to Reynolds Metals Company. Production of synthetic cryolite by fluidized dry process. 3,469,937, 9-30-69, Cl. 23-88.
Roberts, Richard W.: *See—*
Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K.,3,483,633.
Roberts, Robert A.: *See—*
Werner, Raymond E.; and Roberts, Robert A.,3,457,309.
Roberts, Robert C., to General Electric Company. Synchronous motor excitation control system. 3,484,669, 12-16-69, Cl. 318-176.
Roberts, Robert E., to Roberts, Fred T., & Company. Method of making a reinforced hose. 3,423,494, 1-21-69, Cl. 264-94.
Roberts, Robert E., to Roberts, Fred T., & Company. Method of making smooth bore reinforced hose. 3,458,611, 7-29-69, Cl. 264-93.
Roberts, Robert Herman. Album page stabilization system. 3,469,333, 9-30-69, Cl. 40-104.17

Roberts, Robert H. Picture mounting arrangement. 3,461,585, 8-19-69, Cl. 40-158.
Roberts, Robert W.: *See—*
Burge, Harland L., Jr.; Falkenstein, Gary L.; and Roberts, Robert W.,3,421,316.
Roberts, Rodman P. Convertible vaulting piece and inclined plane. 3,433,477, 3-18-69, Cl. 272-64.
Roberts, Ronald W.: *See—*
Roberts, William M.; and Roberts, Ronald W.,3,475,999.
Roberts, Russell R.: *See—*
Murray, Thomas C.; and Roberts, Russell R.,3,421,818.
Roberts, Ryland J.: *See—*
Neale, Alan J.; and Roberts, Ryland J.,3,444,144.
Roberts, Sanford B.; and Felton, Lewis P. Means for measuring distributed forces using microcapsules. 3,469,439, 9-30-69, Cl. 73-88.
Roberts, Sidney G.; Fetzer, Maurice C.; and Hess, James B., to Kaiser Aluminum & Chemical Corporation. Metallurgy. 3,462,248, 8-19-69, Cl. 29-182.
Roberts, Sidney, to American Machine & Foundry Company. Methods for welding seams. 3,482,073, 12-2-69, Cl. 219-59.
Roberts, Stanley, to Gullick Limited. Mine roof supports. 3,483,705, 12-16-69, Cl. 61-45.
Roberts, Thomas E., Jr., to FMC Corporation. Positioning mechanism. 3,452,791, 7-1-69, Cl. 144-2.
Roberts, Thomas E., Jr.; and Billett, Ronald J., to FMC Corporation. Machine for detecting and patching defects in plywood veneer. 3,452,789, 7-1-69, Cl. 144-2.
Roberts, Thomas E., Jr.; and Houston, Robert K., to FMC Corporation. Positioning mechanism. 3,446,256, 5-27-69, Cl. 144-2.
Roberts, Thomas E., Jr.: *See—*
Vandersyde, Francis E.; Roberts, Thomas E., Jr.; and McGee, Arthur L.,3,452,790.
Roberts, Thomas G.: *See—*
Ehrlich, John J.; Hutcheson, Guilford J., Jr.; Rust, Charles M.; Roberts, Thomas G.; and Cason, Charles M., III,3,464,267.
Roberts, Thomas G.; and Barr, Thomas A., Jr.,, to United States of America, Army. Trap pump for vacuum system. 3,464,223, 9-2-69, Cl. 62-55.5
Roberts, Thomas Marmaduke; and Houldcroft, Peter Thomas, to Welding Institute, The. Welding of transition pieces. 3,460,235, 8-12-69, Cl. 29-470.3
Roberts Unique Loom Parts, Inc.: *See—*
Roberts, William A., 3,443,604.
Roberts, William A.; and Terrell, James W., 3,485,972.
Roberts, Webster C., to Harris-Intertype Corporation. Electrophotographic apparatus and method. 3,427,658, 2-11-69, Cl. 355-4.
Roberts, William A., to Roberts Unique Loom Parts, Inc. Picker stick check. 3,443,604, 5-13-69, Cl. 139-162.
Roberts, William A.; and Christadore, Morris R. Massage device. 3,478,736, 11-18-69, Cl. 128-36.
Roberts, William A.; and Terrell, James W., to Roberts Unique Loom Parts, Inc. Electric stop motion for looms. 3,485,972, 12-23-69, Cl. 200-61.18
Roberts, William Elwyn. Electrophonic musical instrument. 3,446,905, 5-27-69, Cl. 84-1.22
Roberts, William J.: *See—*
Florio, Sam A.; and Roberts, William J.,3,484,177.
Roberts, William M. Fishing lure. 3,427,744, 2-18-69, Cl. 43-42.05
Roberts, William M.; and Roberts, Ronald W. Racheting hand tool mechanism. 3,475,999, 11-4-69, Cl. 81-63.
Roberts-Gordon Appliance Corporation: *See—*
Mikuls, Antons, 3,460,800.
Robertshaw Controls Company: *See—*
Bauer, Werner Robert, 3,449,534.
Bauer, Werner Robert; and Hipple, George Mack, 3,459,912.
Beck, Roland D., 3,446,244.
Beck, Roland D.; and Houser, Roy W., 3,448,661.
Berleyoung, Walter J.; Kreuter, Kenneth G.; and Mueller, Klaus P., 3,433,413.
Body, William K.; Locascio, Russell J.; Rice, Harold W.; and Scott, Douglas R., 3,442,448.
Branson, Charles D., 3,459,172.
Branson, Charles D.; and Genbauffe, Francis S., 3,462,234.
Caparone, Michael J.; and Dykzeul, Theodore J., 3,439,699.
Caparone, Michael John; and Dykzeul, Theodore John, 3,441,049.
Caparone, Michael John; and Dykzeul, Theodore John, 3,471,087.
Coyne, John J., 3,483,437.
Crafts, Cecil A., 3,470,478.
Crafts, Cecil A.; and Goodwin, Perry H., Jr., 3,474,341.
Demi, Roy C., 3,421,474.
Demi, Roy C., 3,462,079.
Dykzeul, Theodore J., 3,434,100.
Dykzeul, Theodore J.; and Scharer, Edward B., 3,448,764.
Dykzeul, Theodore J.; and Mc Kinney, Richard W., 3,467,119.
Freeby, Le Roy W.; and Jackson, Wilbur F., 3,486,732.
Genbauffe, Francis S., 3,454,346.
Genbauffe, Francis S., 3,471,937.
Golden, Robert L., 3,421,732.
Golden, Robert L.; and Shopsky, Harvey J., 3,425,288.
Golden, Robert L.; Wantz, Clarence; Rice, Harold W.; Beck, Roland D.; and Palmer, Reed A., 3,428,768.
Golden, Robert L., 3,440,368.
Golden, Robert L., 3,459,332.
Golden, Robert L., 3,483,800.
Good, Arthur L., 3,436,985.
Good, Arthur L., 3,444,343.
Good, Arthur L., 3,447,116.
Good, Arthur L., 3,447,390.
Good, Arthur L., 3,470,698.
Gray, Robert A., 3,468,339.
Haskins, Lauren D., 3,468,511.
Houser, Roy W., 3,447,686.
Jackson, Wilbur F.; and Wright, John W., 3,433,409.
Jackson, Wilbur F., 3,433,411.
Jackson, Wilbur F.; Katchka, Jay R.; and McAllister, Donald, 3,453,062.
Jackson, Wilbur F.; and Braucksiek, Henry C., 3,467,893.
Jackson, Wilbur F.; and Braucksiek, Henry C., 3,474,388.
Jackson, Wilbur F.; and Wright, John W., 3,482,206.
Katchka, Jay R.; and Dykzeul, Theodore J., 3,447,775.
Katchka, Jay R.; McAllister, Donald; and Scharer, Edward B., 3,454,038.
Kenyon, Fred V., 3,429,199.
Kreuter, Kenneth G., 3,443,580.
Kreuter, Kenneth G., 3,447,569.
Kreuter, Kenneth G.; and Smith, Larry S., 3,453,510.
Kreuter, Kenneth G., 3,482,588.
Maire, Alan E., 3,485,982.
Marlow, Jacob, 3,427,465.
McHale, William L., 3,447,747.
McHale, William L.; and Sorensen, Svend E., 3,448,959.
McHale, William L., 3,479,836.
McIntosh, Harold A.; and Wagner, Edmond M., 3,462,316.
McIntosh, Harold A.; and Wagner, Edmond M., 3,462,316.
Merrell, Kenneth C., 3,474,352.
Merrell, Kenneth C., 3,487,300.
Nisley, Larry V., 3,470,901.
Palmer, Reed A., 3,420,269.
Palmer, Reed A., 3,483,823.
Perkins, Charles H.; and Kreuter, Kenneth G., 3,458,269.
Perkins, Charles H., 3,467,123.
Rhodes, William E., 3,469,157.
Riehl, Fred, 3,461,853.
Riviere, Francois, 3,451,287.
Rogers, Gilbert; and Noonan, Donald F., 3,443,048.
Russell, William J., 3,450,855.
Russell, William J.; and Bauer, Werner Robert, 3,458,679.
Schumann, Paul A., 3,447,145.
Schumann, Paul A., 3,451,058.
Shopsky, Harvey J., 3,451,233.
Tyler, Hugh J., 3,439,710.
Wagner, Joseph P., 3,439,693.
Wantz, Clarence; and Golden, Robert L., 3,454,784.
Willson, James R., 3,428,041.
Willson, James R., 3,454,222.
Willson, James R., 3,472,220.
Wolfe, Denis G.; Genbauffe, Francis S.; and Eicher, Gerald H., 3,469,779.
Robertson, Andrew, to Sterling Drug Inc. Amino-phenol compounds. 3,431,293, 3-4-69, Cl. 260-474.
Robertson, Anthony E.; Pauliukonis, Richard S.; and Eichenberger, Hans P., to TRW Inc. Power plant. 3,486,332, 12-30-69, Cl. 60-50.
Robertson, Arthur B.: *See—*
Gregory, James T.; Robertson, Arthur B.; and Keim, William A.,3,451,966.
Robertson, Charlotte,: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Robertson, Clifford A.: *See—*
Balamuth, Lewis; and Robertson, Clifford A.,3,438,428.
Balamuth, Lewis; and Robertson, Clifford A.,3,445,307.
Robertson, David M., to British Oxygen Company Limited, The. Fluid flow regulators. 3,474,812, 10-28-69, Cl. 137-81.
Robertson, Donald: *See—*
Higley, Joseph B.; Robertson, Donald; and Schroyer, Franklin K.,3,448,283.
Robertson, Emilia: *See—*
Leonor, Manuel F., 3,436,312.
Robertson, Farrell C.: *See—*
Conry, Lloyd H.; Rininger, Paul R.; and Robertson, Farrell C.,3,481,584.
Robertson, Gary,: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,460,570.
Robertson, Gary B.: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Robertson, Gavin W. E.; and Dyson, Cyril W. C., to Baird and Tatlock (London) Limited. Material dispensing device. 3,477,478, 11-11-69, Cl. 141-284.

Robertson, George H., to Bell Telephone Laboratories, Incorporated. Analysis of time-segmented waves. 3,466,540, 9-9-69, Cl. 324-77.
Robertson, George M.; and Charles, George K., to Cow & Gate Limited. Continuous cheesemaking process. 3,468,026, 9-23-69, Cl. 31-89.
Robertson, Gordon W., to Aquacare International Ltd. Water sterilizing apparatus. 3,456,107, 7-15-69, Cl. 250-43.
Robertson, H. H., Company: *See—*
Albrecht, Raymond E.; Curran, Bernard E.; and Lindner, Robert G., 3,462,902.
Curran, Bernard E., 3,482,367.
Fork, Frank W., 3,420,018.
Fork, Frank W., 3,426,492.
Fork, Frank W., 3,426,802.
Fork, Frank W., 3,453,791.
Fork, Frank William, 3,459,875.
Franc, Victor G., 3,421,279.
Franc, Victor G., 3,421,353.
Golding, Sherwin A.; and Summers, John E., 3,443,983.
Hubbell, Dean S.; and Holmgren, Robert E., 3,475,141.
Hubbell, Dean S.; and Howlett, Ernest E., 3,482,951.
Jentoft, Arthur Philip, 3,432,139.
Kautz, Glenn E., 3,462,083.
Manias, Theodore Emmanuel, 3,474,583.
Marshall, Theodore W.; Rankin, Frederick W.; and Willett, Norman E., 3,445,317.
Martin, Harold E., 3,420,029.
Sawyer, Andrew H.; Dobbins, Mark; and Lloyd, Richard H., 3,482,505.
Snavely, Donald D., 3,442,399.
Tischuk, Walter, 3,438,168.
Robertson, Harold J. Tool handle with rotatable captive lid. 3,426,813, 2-11-69, Cl. 145-62.
Robertson, Ian MacPherson: *See—*
MacIntyre, Duncan; and Robertson, Ian MacPherson,3,483,929.
Robertson, Jack Sutton, to American Enka Corporation. Synthetic yarns, fabrics and processes for making the same. 3,472,016, 10-14-69, Cl. 57-140.
Robertson, James A., to FMC Corporation. Method of producing high temperature resistant structures. 3,428,719, 2-18-69, Cl. 264-29.
Robertson, James E., to Bell Telephone Laboratories, Incorporated. Parallel digital arithmetic unit utilizing a signed-digit format. 3,462,589, 8-19-69, Cl. 235-175.
Robertson, Jerry L.; and Epperly, William R., to Esso Research and Engineering Company. Separation process. 3,476,822, 11-4-69, Cl. 260-674.
Robertson, John A. L., to Atomic Energy of Canada Limited. Nuclear reactor fuel. 3,462,371, 8-19-69, Cl. 252-301.1
Robertson, John C.: *See—*
Osborn, Oliver; and Robertson, John C.,3,482,963.
Robertson, John D., to Mount Hope Machinery Company. Slack eliminating device for sheet-feeding apparatus. 3,470,592, 10-7-69, Cl. 26-63.
Robertson, John, Jr., to Norton Company. Reinforced grinding wheels and reinforcement network therefor. 3,477,180, 11-11-69, Cl. 51-206.
Robertson, John R., to Uniroyal Limited. Method of moulding. 3,432,583, 3-11-69, Cl. 264-46.
Robertson, Joseph P. Golf tee. 3,424,457, 1-28-69, Cl. 273-33.
Robertson, Kenneth: *See—*
Bucknell, Ernest H.; and Ward, Irving A., 3,461,901.
Robertson, Locwy, Engineering Company Limited: *See—*
Elton, Derek A. L., 3,438,235.
Robertson, Louie H. Manufacture of dust-proof charcoal adsorbent fines and briquettes made therefrom. 3,485,600, 12-23-69, Cl. 44-24.
Robertson, Martin N., to General Tire & Rubber Company, The. Annulus positioning device. 3,442,746, 5-6-69, Cl. 156-396.
Robertson, Michael Mundie; and Horsfall, Geoffrey Alan, to Imperial Chemical Industries Limited. Synthetic polyester sizing composition for yarns. 3,464,947, 9-2-69, Cl. 260-29.6
Robertson, Michael Mundie; and Horsfall, Geoffrey Alan, to Imperial Chemical Industries Limited. Process for treating polyester shaped articles with polymeric compound containing polyester group and active group in the presence of swelling agent for polyester. 3,479,212, 11-18-69, Cl. 117-138.8
Robertson, Michael Mundie: *See—*
McIntyre, James Eric; Robertson, Michael Mundie; and Horsfall, Geoffrey Alan,3,473,956.
Robertson Photo-Mechanix, Inc.: *See—*
Florsheim, Leonard S., Jr.; and Hacker, Frederick W., 3,464,768.
MacPhee, Paul A.; Wanielista, Walter; and Jeschke, Richard R., 3,433,567.
Robertson, Reed S.: *See—*
Wirth, Louis F., Jr.; and Robertson, Reed S.,3,432,428.
Robertson, Richard C.; and Koch, Robert M., to Addressograph-Multigraph Corporation. Safety arrangement for copying machine. 3,421,816, 1-14-69, Cl. 355-8.
Robertson, Thomas M.; Overbeck, Charles J.; and Hickey, James J., to Nalco Chemical Company. Chelometric titration method. 3,440,014, 4-22-69, Cl. 23-230.
Robertson, Troy,: *See—*
Morris, William Whitby, 3,482,807.
Robertson, William: *See—*
Bowley, Thomas William; and Robertson, William,3,452,323.
Robeson, Charles D.: *See—*
Chechak, Albert J.; and Robeson, Charles D.,3,432,566.
Chechak, Albert J.; and Robeson, Charles D.,3,446,801.
Robeson, Max O., to Procter Chemical Company, Inc. Methallyl sulfonate salt production. 3,453,320, 7-1-69, Cl. 260-513.
Robeson, Max O., to Celanese Corporation. Preparation of cobaltous acetate solutions. 3,459,677, 8-5-69, Cl. 252-431.
Robey, Charles William, to Rolls-Royce Limited. Bearing lubrication device. 3,424,374, 1-28-69, Cl. 230-206.
Robey, Paul, to International Copper Research Association, Inc. Patina finish on cupreous surfaces. 3,473,970, 10-21-69, Cl. 148-6.21
Robic , Roger: *See—*
Dallois, Robert; Robic , Roger; and Dufour, Gisele,3,462,128.
Robicheaux, Warren J., to Gulf Oil Corporation. Grating fastening clip. 3,466,829, 9-16-69, Cl. 52-489.
Robiette, Alfred Gordon Evans, to Foseco International Limited. Electric arc stabilization in electric arc melting using carbon electrodes. 3,461,339, 8-12-69, Cl. 313-357.
Robieux, Jean; and Auclair, Jean-Michel, to Compagnie Generale d 'Electricite. Isotopic separation process. 3,443,087, 5-6-69, Cl. 250-41.9
Robillard, Arthur, Jr. Equipment for croquet type games. 3,464,697, 9-2-69, Cl. 273-56.
Robillard, Hubert A.Plumber's pneumatic plug. 3,431,945, 3-11-69, Cl. 138-90.
Robillard, Jean J. A. Electrocatalytic photography utilizing photodeactivated catalysts. 3,457,069, 7-22-69, Cl. 96-1.
Robin, Gilbert J.; Cronig, Alvin; and Gruber, Francois R., to Itek Corporation. Photographic apparatus. 3,472,138, 10-14-69, Cl. 95-13.
Robin, Marcel: *See—*
Gollion, Henri-Jacques; Robin, Marcel; and Schwab, Bernard,3,421,978.
Javellaud, Jean; Robin, Marc; and Dupuy, Gerard,3,454,465.
Robin, Melvin B.: *See—*
Kuebler, Norman A.; Pao, Yoh-Han; and Robin, Melvin B.,3,428,388.
Robin Products Company: *See—*
Brown, Martin M., 3,466,709.
Brown, Martin M., 3,466,966.
Pritchard, John S., 3,441,986.
Saunders, Thomas B., 3,483,787.
Robinair Manufacturing Corporation: *See—*
Fritch, Junior L., 3,438,656.
Fritch, Junior L., 3,473,966.
Robinett, Leonard L.: *See—*
Graham, John V.; Keeling, John B.; and Robinett, Leonard L.,3,439,783.
Robinette, Hillary, Jr.: *See—*
Stanley, Robert K.; and Robinette, Hillary, Jr.,3,432,898.
Robinette Research Laboratories, Inc.: *See—*
Fisher, Sallie A., 3,432,251.
Robinette, Richard T., to Kelsey-Hayes Company. Opposed piston disk brake. 3,424,276, 1-28-69, Cl. 188-73.
Robinette, Richard T., to Kelsey-Hayes Company. Ventilated rotor with vibration dampener. 3,425,523, 2-4-69, Cl. 188-218.
Robins, A. H., Company, Incorporated: *See—*
Dawson, Norman D., 3,433,801,
Dawson, Norman D.; and Cale, Albert D., Jr., 3,433,802.
Ercoli, Nicholas, 3,466,312.
Helsley, Grover C.; and Welstead, William J., Jr., 3,424,760.
Helsley, Grover C.; and Lunsford, Carl D., 3,424,761.
Helsley, Grover C., 3,424,762.
Helsley, Grover C., 3,429,968.
Jenkins, Herndon, 3,470,189.
Koppanyi, Theodore F., 3,446,897.
Lunsford, Carl D.; and Fielden, Marvel L., 3,423,418.
Lunsford, Carl D.; and Cale, Albert D., Jr., 3,429,893.
Lunsford, Carl D.; and Welstead, William J., Jr., 3,455,941.
Lunsford, Carl D.; and Fielden, Marvel L., 3,457,267.
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr., 3,458,635.
Robins, A.H., Company, Incorporated: *See—*
Lunsford, Carl D.; Helsley, Grover C.; and Richman, John A., Jr., 3,479,370.
Robins, Janis, to Ashland Oil & Refining Company. Foundry binder composition comprising benzylic ether resin, polyisocyanate, and tertiary amine. 3,429,848, 2-25-69, Cl. 260-38.

Robins, Janis, to Ashland Oil & Refining Company. Process for preparing sand cores. 3,431,969, 3-11-69, Cl. 164-43.
Robins, Janis. Resinous composition comprising benzylic ether resin, polyisocyanate, and tertiary amine. 3,432,457, 3-11-69, Cl. 260-30.4
Robins, Janis, to Ashland Oil & Refining Company. Phenolic resins containing benzylic ether linkages and unsubstituted para positions. 3,485,797, 12-23-69, Cl. 260-57.
Robins, Janis; and Schafer, Robert J., to Ashland Oil & Refining Company. Method of forming a sand core. 3,426,831, 2-11-69, Cl. 164-43.
Robins, Kenneth E.: *See—*
Britton, Richard B.; Robins, Kenneth E.; and Sampson, William B.,3,432,783.
Robinsky, Eli I. Continuously extensible and roll-up reinforced structure. 3,466,685, 9-16-69, Cl. 14-27.
Robinson, Albert L. Lock structure. 3,480,314, 11-25-69, Cl. 292-64.
Robinson, Albert Sidney: *See—*
Loukes, David Gordon; and Robinson, Albert Sidney,3,486,877.
Robinson, Albert Sidney; and Lawrenson, Jack, to Pilkington Brothers Limited. Lateral confinement and flow halting apparatus for manufacture of flat glass. 3,468,653, 9-23-69, Cl. 65-99.
Robinson, Albert Sidney; and Lawrenson, Jack, to Pilkington Brothers Limited. Method and apparatus to produce transverse surface flow of the float glass bath metal. 3,479,171, 11-18-69, Cl. 65-99.
Robinson, Alfred Alexander; and Calvesbert, James William, to English Electric Company, Limited, The. Arc rotating coil structure in vacuum circuit interrupters. 3,469,050, 9-23-69, Cl. 200-144.
Robinson, Alfred G., III: *See—*
Hagemeyer, Hugh J., Jr.; Gleason, Willard P.; and Robinson, Alfred G., III,3,466,264.
Robinson, Alfred J.; and Fox, Walter A., to McGraw-Edison Company. R.F. attenuator with electronic switching. 3,464,036, 8-26-69, Cl. 333-81.
Robinson, Allan Hoben: *See—*
Davis, Robert Nelson; and Robinson, Allan Hoben,3,485,078.
Robinson, Anthony George, to Westland Aircraft Limited. Electrical position indicators. 3,480,937, 11-25-69, Cl. 340-196.
Robinson, Aubrey Clyde. Electric heating oven. 3,467,815, 9-16-69, Cl. 219-400.
Robinson, Cecil C., deceased0 (by Robinson, Gladys Isabelle; administratrix). Portable receptacle for harvested unginned cotton. 3,450,285, 6-17-69, Cl. 214-517.
Robinson, Cecil S.Convertible helmsman's seat for power boat. 3,428,976, 2-25-69, Cl. 9-7.
Robinson, Charles A.; and Nescio, John J., to American Home Products Corporation. Process for producing α-amino penicllins. 3,478,018, 11-11-69, Cl. 260-239.1
Robinson, Charles A.: *See—*
Harriman, Allen C.; and Robinson, Charles A.,3,464,382.
Robinson, Charles C., to American Optical Corporation, mesne. Faraday rotators utilizing alumina-silicate glasses containing rare earth metal oxides. 3,484,152, 12-16-69, Cl. 350-151.
Robinson, Charles C.: *See—*
Young, Robert W.; Graf, Robert E.; and Robinson, Charles C.,3,420,601.
Robinson, Charles F.: *See—*
Bell, Irving J.; Robinson, Charles F.; and Willardson, Robert K.,3,483,028.
Jacobs, John H.; and Robinson, Charles F.,3,427,629.
Robinson, Charles H. Bowling ball grip position indicator. 3,436,075, 4-1-69, Cl. 273-26.
Robinson, Claude G.; and McClelland, Robert, 'Automatic' Sprinkler Corporation of America. Telescoping chair riser structure. 3,429,081, 2-25-69, Cl. 52-9.
Robinson, Clifford C., to Springer Industries, Inc. Call board. 3,477,404, 11-11-69, Cl. 116-133.
Robinson, Colin: *See—*
Barton, Donald Moore; and Robinson, Colin,3,435,622.
Barton, Donald Moore; and Robinson, Colin,3,456,538.
Robinson, Dale D., to United States Bedding Company, The. Spring assembly. 3,426,371, 2-11-69, Cl. 5-260.
Robinson, David W.: *See—*
Chapin, Judson K., Jr.; and Robinson, David W.,3,459,531.
Robinson, Dennis; and Palfrey, Walter, to Johnson & Johnson. Surgical dressing. 3,422,816, 1-21-69, Cl. 128-296.
Robinson, Donald F. Innersole orienting and punching device. 3,425,074, 2-4-69, Cl. 12-123.
Robinson, E. S. & A. (Canada) Limited: *See—*
Reid, William G.; and Petron, Boris W., 3,428,516.
Robinson, Edgar R.: *See—*
Carlson, David E.; and Robinson, Edgar R.,3,427,587.
Robinson, Edgar R.; Votaw, Clarence J.; and Zydney, Herbert M., to Bell Telephone Laboratories, Incorporated. On-line delivery of data messages from a transmitter to receivers on the same multistation line. 3,427,589, 2-11-69, Cl. 340-147.
Robinson, Edward W.: *See—*
Blackman, Glenn R.; and Robinson, Edward W.,3,422,843.
Robinson, Eugene A., to Collins Radio Company. Symmetrical clipper. 3,435,253, 3-25-69, Cl. 307-237.
Robinson, Forrest A. Tubeless tire bead expander. 3,422,875, 1-21-69, Cl. 157-1.21
Robinson, Frank S.: *See—*
Christians, John A.; and Robinson, Frank S.,3,442,245.
Robinson, Frank; and Chell, Frederick Nunnerley, to Courtaulds Limited. Knitting process. 3,474,643, 10-28-69, Cl. 66-70.
Robinson, Gene C., to Ethyl Corporation. Hydrocarbon lead production. 3,431,185, 3-4-69, Cl. 204-59.
Robinson, Gene H.; and Jarvis, James G., to Eastman Kodak Company. Method and apparatus for sensitometrically testing photoconductive insulators. 3,449,658, 6-10-69, Cl. 324-32.
Robinson, Gerald P.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,431,149.
Robinson, Gladys Isabelle: *See—*
Robinson, Cecil C.,3,450,285.
Robinson, Glen: *See—*
McFarland, Donald L.; and Robinson, Glen,3,439,437.
Robinson, Glen, to Bon-Aire Industries, Inc. Vacuum cleaner. 3,477,087, 11-11-69, Cl. 15-344.
Robinson, Gordon S.; and Anderson, Robert W., Jr., to North American Rockwell Corporation. Loom protector mechanism. 3,463,201, 8-26-69, Cl. 139-346.
Robinson, Herbert Loren, to Hoffmann-La Roche Inc. Diagnostic device. 3,482,564, 12-9-69, Cl. 128-2.
Robinson, Herbert T., to Eastman Kodak Company. Combined top load stack slide adapter and projector. 3,427,739, 2-18-69, Cl. 40-79.
Robinson, Herman E., to Boas Box Company. Box construction. 3,465,944, 9-9-69, Cl. 229-5.5
Robinson, Hugh A.: *See—*
Bayless, Frank K.; and Robinson, Hugh A.,3,451,495.
Robinson, Ivan Maxwell: *See—*
Baxter, Warren Nesmith; and Robinson, Ivan Maxwell,3,472,830.
Robinson, Jack D., to General Electric Company. Voltage test device. 3,425,049, 1-28-69, Cl. 340-214.
Robinson, James B., to American Manufacturing Company. Method of making horse bits by electrical welding. 3,423,561, 1-21-69, Cl. 219-107.
Robinson, James H.: *See—*
Rohl, Cornelius W.; and Robinson, James H.,3,462,289.
Robinson, James M.: *See—*
Eggert, Thomas F.; and Robinson, James M.,3,477,088.
Koland, David G.; and Robinson, James M.,3,456,279.
Robinson, James W.; and Porter, Joseph Frank. Dry color mixer. 3,448,531, 6-10-69, Cl. 35-28.3
Robinson, John Aloysius, to Western Electric Company, Incorporated. Series film capacitor and method of fabrication. 3,482,154, 12-2-69, Cl. 317-260.
Robinson, John E., to United States Steel Corporation. Anchorage for suspension bridge main cable and the like. 3,475,777, 11-4-69, Cl. 14-21.
Robinson, John Sydney: *See—*
Drake, Cyril Francis; Simpson, Walter Eric; and Robinson, John Sydney,3,444,656.
Robinson, John W.; Bookwalter, George N.; and Tuschhoff, John V., to Staley, A. E., Manufacturing Company. Cross-linked cereal starch thickener for foodstuffs. 3,437,493, 4-8-69, Cl. 99-139.
Robinson, Joseph L.: *See—*
Nowak, Leon J., Jr.; Robinson, Joseph L.; Krolopp, Otto C.; Keenan, Joseph H.; and Smith, Joseph L.,3,486,240.
Robinson, Julian E.: *See—*
Barker, James E.; and Robinson, Julian E.,3,462,242.
Robinson, Keith D.: *See—*
Gursky, Ladislav A.; Suter, Charles A.; and Robinson, Keith D.,3,453,164.
Robinson, Ken K.: *See—*
Paulik, Frank E.; Robinson, Ken K.; and Roth, James F.,3,487,112.
Robinson, Kenneth R.: *See—*
Dennis, George E.; Robinson, Kenneth R.; and Quittenton, Richard C.,3,443,958.
Robinson, La Roy E.; and Strom, Roy V., to Continental Machines, Inc. Vibration inhibiting mean for band saws. 3,483,783, 12-16-69, Cl. 83-201.
Robinson, Leon H.; and Williams, Robert E., to Esso Production Research Company. Fracturing of earth formations. 3,461,965, 8-19-69, Cl. 166-308.
Robinson, Leroy E.; and Perry, Dan E., to Phillips Petroleum Company. Method for producing fibrillated film. 3,424,358, 1-28-69, Cl. 225-3.
Robinson, Leslie B., to Honeywell Inc. Latching type switching circuit. 3,458,732, 7-29-69, Cl. 307-273.
Robinson, Lloyd R., Jr. Camping and boat launching trailer. 3,448,875, 6-10-69, Cl. 214-75.
Robinson, Luther; and Roland, Edgar G. Engine oil reconditioner. 3,473,629, 10-21-69, Cl. 184-6.

Robinson, Marquis B.: *See—*
Manion, Jean P.; Philosophos, John A.; and Robinson, Marquis B.,3,485,735.
Robinson, Marshall M.: *See—*
Luke, Robert R.; Robinson, Marshall M.; and Thomson, Kenneth,3,445,856.
Robinson, Maurice E.; and Jokinen, Robert E., to Cleveland Equipment Corporation. Concrete spreader. 3,442,189, 5-6-69, Cl. 94-46.
Robinson, Melville W., Jr.; Steelman, Clarence, Jr.; and Perkins, Enoch, Jr., to Dravo Corporation. Process for pickling of steel strip and regeneration of the contact acid. 3,445,284, 5-20-69, Cl. 134-3.
Robinson, Meyer. Reflective sheet. 3,452,464, 7-1-69, Cl. 40-134.
Robinson, Morris D. Load lift apparatus with low loading level. 3,429,464, 2-25-69, Cl. 214-77.
Robinson, Morris D. Combination valve mechanism for hydraulic power systems. 3,450,007, 6-17-69, Cl. 91-445.
Robinson, Myron L. Apparatus for measurement of fluid conductivity using D. C. power in a conductivity cell. 3,432,746, 3-11-69, Cl. 324-30.
Robinson, Myron L., to International Telephone and Telegraph Corporation, mesne. Electrolytic titrator. 3,448,031, 6-3-69, Cl. 204-195.
Robinson, Norman F.: *See—*
Ciszewski, Joseph F.; Hayase, Masashi; and Robinson, Norman F.,3,428,769.
Robinson, Norman R.; Anley, Donald M.; and Petrie, Charles S. Tanks for holding liquids. 3,438,582, 4-15-69, Cl. 239-265.19
Robinson, Orval L. Trailer hitch-guide and guard. 3,420,549, 1-7-69, Cl. 280-477.
Robinson, Paul Baron Henn; and Homer, Anthony Alfred James. Sound reproducing apparatus. 3,425,701, 2-4-69, Cl. 274-9.
Robinson, Paul Harvey, to RCA Corporation. Assembly having adjacent regions of different semiconductor material on an insulator substrate and method of manufacture. 3,476,617, 11-4-69, Cl. 148-175.
Robinson, Peter John: *See—*
Ridley, Maurice Alexander; and Robinson, Peter John,3,464,906.
Robinson, Peter Michael: *See—*
Brooke, Thomas Andrew; and Robinson, Peter Michael,3,471,352.
Robinson, Peter R., to Bell Telephone Laboratories, Incorporated. Arrangement for tripping ringing in intercept circuit. 3,445,603, 5-20-69, Cl. 179-18.
Robinson, Phillip E., to Parker-Hannifin Corporation. Power assist mechanism for fluid control valves. 3,460,438, 8-12-69, Cl. 91-376.
Robinson, Prentice I.: *See—*
Chang, Ned; Robinson, Prentice I.; and Wang, An,3,428,950.
Robinson, Preston, to Sprague Electric Company. High energy beam trimming of electrical components. 3,486,221, 12-30-69, Cl. 29-620.
Robinson, Radcliffe Franklin, to Colgate-Palmolive Company. Food package containing simulated bacon-type food products. 3,442,662, 5-6-69, Cl. 99-171.
Robinson, Ralph C.; and Morrison, David, to General Time Corporation. Selectable interval timer for clocks. 3,474,617, 10-28-69, Cl. 58-16.5
Robinson, Ralph C.: *See—*
Morrison, David; and Robinson, Ralph C.,3,485,968.
Robinson, Ralph R. Disposable shoe cover. 3,422,550, 1-21-69, Cl. 36-7.1
Robinson, Ralph R. Intra-uterine device. 3,425,411, 2-4-69, Cl. 128-130.
Robinson, Ralph R. Intrauterine device inserter. 3,467,088, 9-16-69, Cl. 128-130.
Robinson, Robert J., to Foxboro Company, The. Static pressure alignment means for differential pressure measuring instrument. 3,440,885, 4-29-69, Cl. 73-407.
Robinson, Robert J., to Foxboro Company, The. Industrial process control apparatus. 3,441,053, 4-29-69, Cl. 137-595.
Robinson, Robert L., Jr.: *See—*
Jacoby, Robert H.; Morris, Earl E.; and Robinson, Robert L., Jr.,3,465,823.
Robinson, Robert William. Cyclone purifier. 3,433,362, 3-18-69, Cl. 210-512.
Robinson, Robert W.: *See—*
McBrayer, John S.; Pearson, Paul E., Jr.; and Robinson, Robert W.,3,422,327.
Robinson, Roland L. Clamping device having a captive nut. 3,451,668, 6-24-69, Cl. 269-93.
Robinson, Russell I., to Allis, Louis Company, mesne. High speed liquid cooled motors. 3,479,541, 11-18-69, Cl. 310-54.
Robinson, Russell S. Coded photographic record card for use in data storage devices and method of making same. 3,446,945, 5-27-69, Cl. 235-61.12
Robinson, Russell S., to Colts Inc. Salvo squeezebore projectiles. 3,450,050, 6-17-69, Cl. 102-92.4
Robinson, Sam P., to Brown, James G., & Associates, Inc. Process for the manufacture of concentrated phosphoric acids. 3,420,628, 1-7-69, Cl. 23-165.
Robinson, Samuel A.: *See—*
Jones, Robert E.; and Robinson, Samuel A.,3,433,807.
Robinson, Seymour D., to Sonoptics Corporation, mesne. Piezoelectric cleaning device. 3,427,480, 2-11-69, Cl. 310-8.1
Robinson, Sherwood Drew: *See—*
Moldovan, Michael T.; Drew, Eugene Hodson, deceased; and Robinson, Sherwood Drew; administrators,3,430,559.
Robinson, Sidney H. Tire underinflation warning device. 3,423,548, 1-21-69, Cl. 200-61.22
Robinson, Stuart E., to Kenbert Lighting Industries, Inc. Lighting fixtures. 3,473,016, 10-14-69, Cl. 240-51.11
Robinson, Thomas Alexander, to Imperial Chemical Industries Limited. Production of polysiloxanes. 3,449,392, 6-10-69, Cl. 260-448.2
Robinson, Thomas L., to Cornell Aeronautical Laboratory Inc. Flexible sheet thin-film photovoltaic generator. 3,433,677, 3-18-69, Cl. 136-89.
Robinson, Thomas R., Jr., to Marlin Firearms Company, The. Firearm with non-binding manual bolt action. 3,426,465, 2-11-69, Cl. 42-16.
Robinson, Wilbourn, Jr. Suspension system for ceiling panels. 3,473,282, 10-21-69, Cl. 52-664.
Robinson, Wilbur D.: *See—*
Bartholomay, Robert P.; Robinson, Wilbur D.; and Farrar, Harold J.,3,440,126.
Robinson, William H. Resilient handle having accordian-like folds. 3,424,344, 1-28-69, Cl. 220-94.
Robinson, William Lovell, to Electric Shop Developments Limited. Device for automatically rendering apparatus inoperative when subjected to shock. 3,482,110, 12-2-69, Cl. 307-120.
Robinson, William M., to Cornell-Dubilier Electric Corporation. High load motor starting arrangement. 3,454,858, 7-8-69, Cl. 318-221.
Robinson, William M., to Cornell-Dubilier Electric Corporation. Capacitor including internal heat dissipating structure. 3,483,448, 12-9-69, Cl. 317-243.
Robinson, William M.: *See—*
Malmberg, Earl W.; and Robinson, William M.,3,457,168.
Robintech Incorporated: *See—*
Prindle, Charles; and Feinman, Harvey M., 3,444,459.
Robirds, Richard W.; and Mason, John F., to Halliburton Company. Double piston differential type pump. 3,470,821, 10-7-69, Cl. 103-10.
Robison Corporation: *See—*
Robison, William H., 3,477,181.
Robison, Fred E.; and Cochran, Kenneth C., to Acme Markets, Inc. Hide puller apparatus. 3,478,386, 11-18-69, Cl. 17-21.
Robison, James Berkeley, to United States of America, Atomic Energy Commission. High voltage field-reversal pulse generator using a laser switching means to activate a field emission X-ray tube. 3,432,664, 3-11-69, Cl. 250-98.
Robison, Michael Mullen, to Ciba Corporation. Certain cycloalkyl-heterocyclic amines. 3,455,944, 7-15-69, Cl. 260-295.
Robison Rayon Company, Inc.: *See—*
Lawson, John B., 3,480,218.
Robison, Russell O., to Dominion Electric Corporation. Mounting for batteries in an electrically driven device. 3,487,319, 12-30-69, Cl. 320-2.
Robison, William H., to Robison Corporation. Tombstone frames. 3,477,181, 11-11-69, Cl. 52-27.
Roblendano, Emilio A.: *See—*
Jakaitis, Eugene A.; Littler, Francis W.; and Roblendano, Emilio A.,3,432,319.
Robo-Wash, Inc.: *See—*
Lieffring, Gordon V., 3,459,910.
Lieffring, Gordon V.; Begey, Kenneth P.; and Widner, James E., 3,464,631.
Robosonics, Inc.: *See—*
Meri, Kalju, 3,469,036.
Robotron Corporation: *See—*
Helman, Donald L., 3,452,250.
Robroy Industries: *See—*
Czigler, Steven R., 3,429,985.
Robson, Arthur G.: *See—*
Cromwell, John E.; and Robson, Arthur G.,3,421,972.
Robson, Arthur M., to Lear Siegler, Inc. Indicating and control means for coaxial shafts. 3,446,181, 5-27-69, Cl. 116-124.4
Robson, Frederick G.: *See—*
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G.,3,436,895.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G.,3,474,917.
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G.,3,478,397.
Robson, Homer L.: *See—*
Faust, John P.; and Robson, Homer L.,3,440,024.

327-709 O-LT - 71 - pt. 1 - 84

Robson, Homer L.; and Hodges, Roy H., to Olin Mathieson Chemical Corporation. Composition and process. 3,461,202, 8-12-69, Cl. 424-149.
Robson Leather Company: *See—*
Becker, John E., 3,479,847.
Roby, James: *See—*
Barradell-Smith, Richard; Hall, James Edward; and Roby, James,3,480,160.
Roby, S. Kingsley. Optical programming with crossed light guides. 3,432,675, 3-11-69, Cl. 250-227.
Roccatagliata, Raul J.: *See—*
Jacobs, Martin; and Roccatagliata, Raul J.,3,461,847.
Rocco, William A.: *See—*
White, Donald W.; Tragert, William E.; and Rocco, William A.,3,432,352.
Rocform Corporation: *See—*
Arrighini, Artil, 3,481,575.
Roch, Josef, to Boehringer Ingelheim G.m.b.H. 2,7-Dimorpholino-4-tertiaryamino-6- heteroaryl-pteridines. 3,475,425, 10-28-69, Cl. 260-246.
Rocha, John G., to United States of America, Army. Energy discharge device. 3,434,383, 3-25-69, Cl. 89-42.
Rochat freres S. A.: *See—*
Annen, Robert, 3,447,528.
Roche, Andre. Paint roller. 3,421,822, 1-14-69, Cl. 401-137.
Roche, Andre, to Office National Industriel de l'Azote. Catalytic conversion of liquid petroleum hydrocarbons. 3,467,506, 9-16-69, Cl. 48-214.
Roche, Francis J., to Castle Industries Inc. of California. Clamp assembly for confronting annular flanges. 3,429,014, 2-25-69, Cl. 24-279.
Roche, Henri; and Billot De Goldlin , Alain, to Societe Anonyme Antar Petroles de l'Atlantique. Lubricant. 3,464,923, 9-2-69, Cl. 252-33.2
Roche, Jean A., to General Electric Company. Fluidic systems. 3,451,409, 6-24-69, Cl. 137-81.5
Roche, Peter J.; and Smith, Thomas J. Reversible self-dumping and self-bailing scow. 3,424,119, 1-28-69, Cl. 114-38.
Roche, Rene: *See—*
Cousin, Philippe; and Roche, Rene,3,425,812.
Rocher, Edouard: *See—*
Le Mehaute, Charles; Rocher, Edouard; Guesnier, Guy; and Vaesken, Roland,3,442,774.
Rocher, George: *See—*
Koch, William Henry; and Rocher, George,3,421,731.
Rocher, Heinz, to Inland Steel Company. Shipping containers and plastic lids therefor. 3,424,340, 1-28-69, Cl. 220-55.
Rocher, Yves. Method of extracting saponins. 3,464,972, 9-2-69, Cl. 260-210.5
Rocherolles, Raymond, to Compagnie Generale d'Electricite. Control device for laser oscillators. 3,449,693, 6-10-69, Cl. 331-94.5
Rochester Instrument Systems, Inc.: *See—*
Harris, Ben A., 3,471,749.
Rochester Ropes, Inc.: *See—*
Rhoades, Lee A.; and Mallard, Manley T., 3,482,034.
Rochez, Rene: *See—*
Krebs, Karlheinz; and Rochez, Rene,3,487,218.
Rochla, Kurt: *See—*
Brinkmeier, Friedhelm; Fiks, Gerhard; and Rochla, Kurt,3,461,021.
Rochling, Hans F. W.; Buchel, Karl-Heinz; and Korte, Friedrich W.A.G.K., to Shell Oil Company. Certain substituted imidazo[4,5-b or c] pyridines. 3,459,759, 8-5-69, Cl. 260-296.
Rochon, Paul G. Clerical garment and collar assembly therefor. 3,486,170, 12-30-69, Cl. 2-129.
Rochow, Eugene G. Method of employing semi-conducting catalysts. 3,421,988, 1-14-69, Cl. 204-164.
Rock, Frank C., Jr., to Lauer, George E. Photoelectric system for grading objects according to length and width. 3,480,141, 11-25-69, Cl. 209-80.
Rock, Frank C., to Optical Coating Laboratory, Inc. Anti-reflection coating and assembly having synthesized layer of index of refraction. 3,432,225, 3-11-69, Cl. 350-164.
Rock, John V.: *See—*
Nelson, Forrest A.; Anderson, Weston A.; and Rock, John V.,3,443,209.
Rock, Lee C., to United States of America, Air Force. Pressure sealing closure for full pressure astronaut's or diver's assembly. 3,421,188, 1-14-69, Cl. 24-204.
Rock of Ages: *See—*
Ferris, Cyrus Y., Jr., 3,455,072.
Rock, William H. Method and apparatus for aircraft logging. 3,447,762, 6-3-69, Cl. 244-17.17
Rock-Ola Manufacturing Corporation: *See—*
Bookout, Floyd V., 3,437,239.
Rockefeller, George D., Jr., to Westinghouse Electric Corporation. Mutual impedance compensation for distance relaying. 3,430,103, 2-25-69, Cl. 317-36.
Rockenfeller, John D., to United Aircraft Corporation. Dual temperature cold trap. 3,435,624, 4-1-69, Cl. 62-55.5
Rocker Solenoid Company: *See—*
Hatashita, Kimio, 3,438,709.
Rockerath, John L.; and Haugan, John R., to Union Special Machine Company. Taping sewing machine. 3,435,786, 4-1-69, Cl. 112-2.
Rocket Development Corporation: *See—*
Wait, Irving Stringham, 3,422,763.
Rocket Research Corporation: *See—*
Green, Charles J., 3,431,742.
Green, Charles J., 3,431,743.
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D., 3,460,746.
Green, Charles J.; Forsythe, Alan K.; Goode, John W.; and Galbraith, Lyle D., 3,460,747.
Maes, Michel E., 3,471,106.
Rockett, James D. Cord type container carrier. 3,480,135, 11-25-69, Cl. 206-65.
Rockey, Kenneth O.: *See—*
Boyd, David M., Jr.; and Rockey, Kenneth O.,3,428,179.
Rockey, Ronald J., to Hughes Aircraft Company. System for determining craft position. 3,453,624, 7-1-69, Cl. 343-112.
Rockford Brass Works: *See—*
Hegstad, Lester O., 3,476,151.
Rockford Machine Tool Co.: *See—*
Newton, Russell A., 3,452,397.
Rockford Servo Corporation: *See—*
Rule, Robert D.; and Ness, Warren C., 3,470,733.
Rockhill, William E.: *See—*
Dooley, Kerry A.; Rockhill, William E.; Swope, David L.; Thomas, Earl F.; and van Fossen, Ralph H., Jr.,3,467,877.
Rocklitz, Alfred J., to Sperry Rand Corporation. Controlled impedance bus bar. 3,466,382, 9-9-69, Cl. 174-72.
Rockmaster Tools, Inc.: *See—*
Haynes, Freddie J., 3,448,535.
Rockower, Bertram, to Massachusetts Institute of Technology. Mount for encapsulation of electronic components. 3,485,211, 12-23-69, Cl. 118-503.
Rocks, Eugene S.; and Smith, Harry J., to Sperry Rand Corporation. Gyrocompasses. 3,419,967, 1-7-69, Cl. 33-226.
Rocks, James K.: *See—*
Edlin, Ray L.; and Rocks, James K.,3,480,450.
Miller, Aaron; and Rocks, James K.,3,455,701.
Rockwell, Charles F., to Fenwal Incorporated. Control and indication system for explosion suppressors. 3,428,130, 2-18-69, Cl. 169-2.
Rockwell, Charles F., to Fenwal Incorporated. Explosion suppression system including explosion simulation and testing apparatus. 3,452,350, 6-24-69, Cl. 340-410.
Rockwell, Dean Milton: *See—*
Miserentino, Charles Orlando; Peebles, Ronald William; and Rockwell, Dean Milton,3,483,053.
Rockwell, Dean M., to Impact Container Corporation. Container outlet opening outfitted with one piece, double seal gasket. 3,480,183, 11-25-69, Cl. 222-3.
Rockwell, Edward A. Disc brake with compensation, anti-skid control, and fail-safe system. 3,421,607, 1-14-69, Cl. 188-196.
Rockwell, Edward A. Dual hydraulic brake systems and brake booster mechanisms therefor. 3,442,080, 5-6-69, Cl. 60-54.5
Rockwell, Frank H.: *See—*
Bottum, Edward W.; and Rockwell, Frank H.,3,432,910.
Rockwell, Harvey W., to Allis-Chalmers Manufacturing Company. Piston and cylinder sealing arrangement. 3,463,058, 8-26-69, Cl. 92-250.
Rockwell, Harvey W.; and Hawk, Dale W., to Allis-Chalmers Manufacturing Company. Scraper ejector mechanism. 3,430,367, 3-4-69, Cl. 37-129.
Rockwell Manufacturing Company: *See—*
Beam, Harry L.; Berube, Warren A.; and Dobslaw, Gerhardt A., 3,454,143.
Binford, Benjamin L., 3,469,078.
Colby, Joseph M.; Manor, Paul A.; and Kania, Gustav, 3,460,802.
Cordone, Leonard; Dobslaw, Gerhardt A.; and Okoniewski, Robert J., 3,454,061.
Drouin, Andre H., 3,482,601.
Farrell, Thomas C., 3,439,538.
Fowler, John H.; and Herd, David P., 3,421,580.
Fowler, John H., 3,438,653.
Fowler, John H., 3,442,536.
Fowler, John H., 3,454,289.
Fowler, John H., 3,472,317.
Fowler, John H., 3,472,530.
Gregory, Edward G.; Dobslaw, Gerhardt A.; and De Waters, Terry L., 3,456,696.
Gregory, Edward G., 3,461,732.
Hall, George D.; Huber, Robert H.; and Wagner, Robert W., 3,430,084.
Jackson, John G., Jr.; Beson, John, and; and Crawford, Charles R., 3,438,654.
Karlby, Henning; Grundy, Howard Reed; Speer, John R.; and Hall, George D., 3,427,484.
Kearns, Edwin W.; and Cutlip, Stephen T., 3,426,848.

Kovats, Zoltan, 3,440,877.
Lanmon, C. P., II, 3,451,481.
Leach, Hugh K.; Taylor, Robert W.; and De Waters, Terry L., 3,457,796.
Marsh, Walter H., 3,426,694.
Paptzun, George J., 3,450,385.
Sundblom, Leif J., 3,437,269.
Sundblom, Leif J., 3,461,281.
Van Horn, John W.; Teague, Jimmy Calvin; and Prickett, Jack A., 3,481,442.
Warrick, Edward C.; and McLay, William S., Jr., 3,461,930.
Warrick, Edward C.; and Niehaus, Edward J., Jr., 3,481,438.
Watts, John D., 3,450,384.
Wolfensperger, Adolf, 3,424,190.
Wolfensperger, Adolph, 3,478,403.

Rockwell, Ronald J., to Avco Broadcasting Corporation. Simulated sinusoidal diode clipper. 3,454,790, 7-8-69, Cl. 307-237.

Rockwell, Theodore, III: *See—*
Panoff, Robert; and Rockwell, Theodore, III,3,446,171.

Rockwell, Willard F., Jr., to North American Rockwell Corporation. Tractor-trailer with ground effect device. 3,434,560, 3-25-69, Cl. 180-119.

Rockwell-Standard Company: *See—*
Boughner, Lawrence G., 3,441,288.
Clark, Glenn L.; Hanley, William G.; and Palovcik, John, 3,465,418.
Cox, Frank T., Jr.; Powers, Richard L.; and Williams, William J., 3,462,986.
Cumming, James C., 3,453,030.
Cumming, James C., 3,484,138.
Gage, Arthur F., 3,422,937.
Hanley, William G.; and Fisher, Frank H., 3,441,109.
Hendrickson, Thomas A.; Williams, William J.; and Stahl, William L., 3,481,252.
Keese, Beverly W., 3,434,364.
Schou, Carl E., 3,465,616.
Stamm, Alex F., 3,464,616.
Stamm, Alex F., 3,465,545.
Williams, William J.; and Ray, Donald A., 3,434,359.

Rockwood, Albert M.; and Schroder, John D., to Brunswick Corporation. Billiard bed. 3,458,193, 7-29-69, Cl. 273-6.

Rockwood, Clyde R. Safety plug for firearm chamber. 3,444,639, 5-20-69, Cl. 42-1.

Rockwood Equipment Company: *See—*
Scott, Albert Rockwood, 3,458,068.

Rocky Mountain Dental Products Co.: *See—*
Davis, Harold G.; and Brunson, Thayer R., 3,452,177.

Rocma Anstalt: *See—*
Vidal, Paul I., 3,441,461.

Rocus, John M.: *See—*
Koll, Stanley J.; and Rocus, John M.,3,460,311.

Roczey-Koller, Kalman, to Electrovert Manufacturing Co. Ltd. Production line soldering with application of ultrasonic energy directing to molten solder. 3,430,332, 3-4-69, Cl. 29-471.1

Rodak, Donald M.: *See—*
Tietema, Casper J.; and Rodak, Donald M.,3,482,269.

Rodbell, Donald S.; and Bean, Charles P., to General Electric Company. Reversal of magnetic core polarization. 3,474,426, 10-21-69, Cl. 340-174.

Rodda, Arthur E.: *See—*
Hall, Henry J.; and Rodda, Arthur E.,3,473,874.

Rodda, John L., 2nd: *See—*
Enloe, Louis H.; and Rodda, John L., 2nd,3,437,955.

Roddick, Douglas G., to Shell Oil Company. Method and apparatus for determining the octane rating of fuel used in internal combustion engines. 3,456,493, 7-22-69, Cl. 73-35.

Rode, Ludwig: *See—*
Kochalski, Horst; Rudszinat, Willy; Suck, Hans; Rode, Ludwig; David, Harri; and Erdmann, Otto,3,481,447.

Rodek, Victor, to United States of America, Army, mesne. Telephone substation circuit employing a class-A class-C tone detector. 3,431,366, 3-4-69, Cl. 179-84.

Rodell, Fred. Detachable cover for helmets and the like. 3,445,860, 5-27-69, Cl. 2-3.

Rodely, Alan E., to American Standard, Inc. Densitometer. 3,477,275, 11-11-69, Cl. 73-32.

Rodely, Alan E., to American Standard Inc. Sensor orientation in flowmeters. 3,481,196, 12-2-69, Cl. 73-194.

Roden, Harry, to Texaco Inc. Method of manufacturing and use of combustible insert sleeves in the body of solid fuel heaters. 3,475,531, 10-28-69, Cl. 264-262.

Roden, Richard L.; Smith, Dudley C.; and Kessler, Lowell, 2/3 to Mitchell, John E., Company, and 1/3 to Gates Rubber Company, The. Belt tension gauge calibration. 3,484,807, 12-16-69, Cl. 73-1.

Roden, Richard L.: *See—*
Mitchell, Orville; Rubenstein, Irving H.; Roden, Richard L.; and Johnson, Russell L.,3,470,706.

Rodenburg, Nicolaas; and Hermes, Willem, to U.S. Philips Corporation, mesne. Level control system for a communication system of the type in which a pilot signal is cotransmitted with information signals between an initial station and a final station. 3,456,191, 7-15-69, Cl. 325-2.

Roder, Georg Adam, to Messer. Griesheim G.m.b.H. Cooled cutting torch carriage. 3,442,499, 5-6-69, Cl. 266-23.

Roder, Georg: *See—*
Bechtle, Anton Josef Richard; and Roder, Georg,3,424,013.

Roder, Georg, to Messer Griesheim G.m.b.H. Traversing carriage for metal-burning cutting machines. 3,434,706, 3-25-69, Cl. 266-23.

Roder, Georg, to Messer Griesheim GmbH. Cutting torch carriage with slidable drawer. 3,443,804, 5-13-69, Cl. 266-23.

Roder, Georg, to Messer Griesheim GmbH. Cutting torch carriage mount. 3,445,102, 5-20-69, Cl. 266-23.

Roder, Karl, to Daimler-Benz Aktiengesellschaft. Coupling having cam means to prevent relative rotation and axial separation. 3,468,565, 9-23-69, Cl. 285-194.

Roder Prazision, Roder, Wilhelm: *See—*
Roder, Wilhelm; and Lang, Ludwig G., 3,442,170.

Roder, Wilhelm; and Lang, Ludwig G., to Roder Prazision, Roder, Wilhelm. Sleeve adaptor. 3,442,170, 5-6-69, Cl. 85-8.3

Rodermund, Robert E.; Fowler, Vance G.; and Denning, David B., to American Enka Corporation. Rayon looper clip yarns. 3,426,521, 2-11-69, Cl. 57-140.

Rodger, Andrew William. Nozzle having a resiliently yieldable sealing member in combination with a cleaning system for vehicle glass. 3,423,025, 1-21-69, Cl. 239-284.

Rodgers, Franklin A., to Pactide Corporation. Multiple effect distillation with microporous membranes and distillate recirculation. 3,477,917, 11-11-69, Cl. 203-10.

Rodgers, Gerald Patrick, to General Electric Company Limited, The. Magnetic storage apparatus employing high permeability auxiliary core. 3,434,127, 3-18-69, Cl. 340-174.

Rodgers, James Linn; and Caves, Robert B. Irrigator. 3,430,867, 3-4-69, Cl. 239-542.

Rodgers, John T.; Williams, Richard M.; and Larsen, Richard J., to Ducommun Incorporated, mesne. Liner for smoking pipe. 3,420,244, 1-7-69, Cl. 131-194.

Rodgers, June M. Doll having a plurality of changeable ethnic features. 3,419,993, 1-7-69, Cl. 46-22.

Rodgers, Leonard John, to Rolls-Royce Limited. Method and apparatus for installing jet engines. 3,432,911, 3-18-69, Cl. 29-464.

Rodgers, Loyal J., to Amsted Industries Incorporated. Pneumatic spring. 3,433,473, 3-18-69, Cl. 267-64.

Rodgers, Loyal J., to Amsted Industries Incorporated. Railway car hydraulic roll stabilizer. 3,486,466, 12-30-69, Cl. 105-199.

Rodgers, Peter A. Wig stand. 3,468,499, 9-23-69, Cl. 223-66.

Rodgers, Robert P., to Singer-General Precision, Inc. Sample and hold circuit. 3,474,259, 10-21-69, Cl. 307-238.

Rodgers, Robert T., to Tidewater Oil Company. Alkylation process. 3,467,729, 9-16-69, Cl. 260-683.62

Rodgers, Wayne, V.: *See—*
Schneider, William S.; and Corella, Arthur P., 3,432,986.

Rodgers, William J. Device and technique for assuring uniform brick coursing. 3,457,649, 7-29-69, Cl. 33-137.

Rodi, Lucienne; and Lefillatre, Guy, to Commissariat a l'Energie Atomique. Process for the incineration of fluorine containing organic liquid. 3,483,128, 12-9-69, Cl. 252-301.1

Rodia, Frank J.; and Connelly, William J. Golf club having adjustable weights. 3,466,047, 9-9-69, Cl. 273-171.

Rodier, Christian, to Societe d' Optique, Precision, Electronique et Mecanique. Fully closing diaphragm. 3,438,316, 4-15-69, Cl. 95-64.

Rodin, Emil A. Screw installing attachment for power tools. 3,484,114, 12-16-69, Cl. 279-1.

Rodman, Hugh, to Shaler, John T., Company. Basket for polished wafers. 3,486,631, 12-30-69, Cl. 211-41.

Rodman, James B., Sr.: *See—*
Smith, Barton K.; Groff, Ralph W., Sr.; and Rodman, James B., Sr.,3,478,487.

Rodman, John F., Jr.: *See—*
Roinestad, Gerald C.; Rodman, John F., Jr.; and Burnett, John S.,3,439,795.

Rodner, Robert A., to Radio Corporation of America. Circuit for distinguishing interrupt signal from other signals. 3,435,129, 3-25-69, Cl. 178-3.

Rodorigo, Giacomo; and Lanzafame, Cosimo. Soccer game having electromechanical means for producing translational and rotational movement of the players. 3,475,028, 10-28-69, Cl. 273-85.

Rodot, Michel: *See—*
Marfaing, Yves; Bailly, Francis; Cohen-Solal, Gerard; and Rodot, Michel,3,472,685.

Rodpak Manufacturing Co.: *See—*
Hamilton, Roy C., 3,464,708.

Rodrigo, Harry G.: *See—*
Baker, John F.; Rodrigo, Harry G.; and Ryan, Joseph A.,3,422,237.

Rodrigue, Kenneth. Unloading means. 3,484,850, 12-16-69, Cl. 214-44.

Rodrigues, Anthony F.; and Eaton, Roy W., to Becton, Dickinson of California, Inc. Dip molding apparatus-double conveyor. 3,431,596, 3-11-69, Cl. 18-4.

Rodrigues, Edouard Georges Daniel, 1/2 to Chantiers Navals de la Ciotat. Containers and the like. 3,472,414, 10-14-69, Cl. 220-3.
Rodriguez, Alan: *See—*
Brinson, Roger; and Rodriguez, Alan,3,422,854.
Rodriguez, Antonio R.; and Cronin, John, to Aerovox Corporation. Process for manufacturing a multilayer ceramic capacitor. 3,456,313, 7-22-69, Cl. 29-25.42
Rodriguez, Arturo J. Fertility cycle indicator. 3,486,691, 12-30-69, Cl. 235-88.
Rodriguez, Augustin: *See—*
Doppelt, Lawrence; and Rodriguez, Augustin,3,445,956.
Rodriguez, Corsino Ruben. Bumper carriers for bicycle. 3,464,608, 9-2-69, Cl. 224-42.03
Rodriguez, George L.; and Pitt, Richard W., to Bell Aerospace Corporation. Rotor blade grip bearing. 3,434,546, 3-25-69, Cl. 170-160.58
Rodriguez, George; and Ouye, James. Plastic laminating press. 3,463,080, 8-26-69, Cl. 100-257.
Rodriguez, Jose Pelaez. Pressure actuated flush valve for flushing marine engine. 3,441,044, 4-29-69, Cl. 137-111.
Rodriguez, Ramon. Window construction. 3,464,157, 9-2-69, Cl. 49-161.
Rodzen, Richard A.: *See—*
Lamber, Clarence F.; Rodzen, Richard A.; and Barron, Edward R.,3,458,863.
Roc, Frederick Ormesher: *See—*
Jacobsen, Bent Bulow; and Roe, Frederick Ormesher,3,428,898.
Roc, Norman M., to Bada Company, The. Wheel balance method. 3,474,677, 10-28-69, Cl. 73-483.
Roc, Norman P., to Consolidated Products Corporation, mesne. Machine for manufacturing low-noise cable. 3,462,822, 8-26-69, Cl. 29-202.5
Roc, Ralph C., to Saline Water Conversion Corporation. Condensing power plant system. 3,438,202, 4-15-69, Cl. 60-64.
Roc, Ralph C., to Saline Water Conversion Corporation, mesne. Tube sheet connector having flexible adhesive sealing means. 3,471,178, 10-7-69, Cl. 285-137.
Roc, Sheldon F., Jr., to Owens-Illinois, Inc. Method for coating and testing composite containers. 3,447,946, 6-3-69, Cl. 117-65.2
Roeber, Fred W., to Raytheon Company. Flashtube triggering circuits. 3,430,159, 2-25-69, Cl. 331-94.5
Roeber, Henry William: *See—*
Gartner, Stanley Jacob; and Roeber, Henry William,3,452,425.
Roebuck, Alan, to Imperial Chemical Industries, Limited. Process for making elastomer/non-elastomer staple fibre yarns. 3,435,606, 4-1-69, Cl. 57-157.
Roebuck, Alec: *See—*
Buckley, Douglas; Roebuck, Alec; and Firth, Donald,3,471,311.
Roebuck, C. W.: *See—*
Barrow, Marvin A., 3,422,865.
Roeck, Erich F., to Owens-Illinois, Inc. Pipet plugger. 3,460,315, 8-12-69, Cl. 53-115.
Roed, Age Eilef, to Saab Aktiebolag. STOL aircraft having by-pass turbojet engines. 3,478,988, 11-18-69, Cl. 244-42.
Roeder, Edward R., to North American Rockwell Corporation. Brazing alloy binder. 3,475,442, 10-28-69, Cl. 260-29.6
Roeder, George K. Downhole fluid actuated pump assembly. 3,453,963, 7-8-69, Cl. 103-46.
Roeder, Gordon A.: *See—*
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H. H.,3,472,649.
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H.H.,3,472,650.
Roeder, John, Jr., to Whirlpool Corporation. Absorption refrigeration. 3,465,541, 9-9-69, Cl. 62-476.
Roeder, John, Jr.: *See—*
Phillips, Benjamin A.; and Roeder, John, Jr.,3,466,893.
Roediger, Joseph C.; Tompkins, Eugene E.; and Schoenbaum, George H., to Esso Research and Engineering Company. Method for protecting automobile undersides with as- phalt emulsion. 3,427,172, 2-11-69, Cl. 106-14.
Roegner, Charles D. Tamperproof slide lock for doors. 3,451,703, 6-24-69, Cl. 292-148.
Rochl, Edward J., to Pittsburgh Steel Company. Electroplating a ductile zinc-nickel alloy onto strip steel. 3,420,754, 1-7-69, Cl. 204-28.
Rochm, Dan Christian. Deodorizing treatment of aqueous solutions. 3,459,852, 8-5-69, Cl. 424-76.
Rochr, Harry: *See—*
Ott, Karl-Heinz; Knapp, Karl-Heinrich; Dinges, Karl; and Roehr, Harry,3,442,979.
Rochr Metals & Plastics Company: *See—*
Fields, Mack R., 3,438,528.
Fields, Mack R.; Roehr, Zbislaw M.; and Beall, Glenn L., 3,455,478.
Fields, Mack R., 3,463,341.
Rochr, Zbislaw M.: *See—*
Fields, Mack R.; Roehr, Zbislaw M.; and Beall, Glenn L.,3,455,478.
Roehrs, Guenter W., to General Motors Corporation. Punch construction. 3,444,719, 5-20-69, Cl. 72-462.
Roelofs, Richard V., to United Control Corporation, mesne. Ajustable equalizer circuit for magnetic reproducer. 3,436,490, 4-1-69, Cl. 179-100.2
Roemer, Erich, to Glyco-Metall-Werke, Daelen & Loos G.m.b.H. Manufacture of journal bearings. 3,425,112, 2-4-69, Cl. 29-149.5
Roemer, Henry C., deceased0 (by Provident National Bank0Hauptfuhrer, George J., Jr.), to Industrial Corporation of America. Folding wall safety device. 3,446,264, 5-27-69, Cl. 160-188.
Roen, Ralph M., to McGraw-Edison Company. Method and apparatus for manufacturing a laminated magnetic core. 3,453,726, 7-8-69, Cl. 29-605.
Roer, Harvey. Ornamental timers. 3,438,197, 4-15-69, Cl. 58-144.
Roerden, Rudolph F.: *See—*
Frey, Donald J.; and Roerden, Rudolph F.,3,486,834.
Roerig, Arnold J., to Beloit Corporation. Revolving chip feeder. 3,449,014, 6-10-69, Cl. 302-14.
Roerig, Arnold J.; and Brown, Kenton J., to Beloit Corporation. High pressure chip transfer valve. 3,433,392, 3-18-69, Cl. 222-189.
Roes, Carl W. Fishing lure. 3,461,595, 8-19-69, Cl. 43-42.39
Roeschen, William R., to Douglas & Lomason Company, mesne. Bag filling machine. 3,472,291, 10-14-69, Cl. 141-71.
Roesel, John F., Jr., to Jebco, Inc. Electric power generator for generating power of a predetermined frequency, magnitude, and wave form. 3,454,864, 7-8-69, Cl. 322-24.
Roesel, John F., Jr. Voltage regulators for electric generators. 3,471,769, 10-7-69, Cl. 322-28.
Roeske, Paul W.: *See—*
Schneider, Alfred; Shunn, William F.; and Roeske, Paul W.,3,434,462.
Roesky, Herbert W., to Du Pont de Nemours, E. I., and Company. Derivatives of phosphinodithionic acid and method for their preparation. 3,432,277, 3-11-69, Cl. 23-357.
Roesky, Herbert W., to Du Pont de Nemours, E. I., and Company. Azido derivatives of phosphorus thioacids and method for their preparation. 3,437,455, 4-8-69, Cl. 23-357.
Roesky, Herbert W., to Du Pont de Nemours, E. I., and Company. Hydrocarbyl and hydrocarbylene mono-and bis (phosphorodifluorido) dithioate esters. 3,449,473, 6-10-69, Cl. 260-928.
Roesky, Ralph R.; Gentry, Larry L.; and Hopkins, John W., to Lockheed Aircraft Corporation. Underwater flowline installation. 3,482,410, 12-9-69, Cl. 61-72.3
Roesler, Hans; and Eisermann, Bernhard R. R., to Quarzlampen Gesellschaft mbH. Radiation apparatus with an adjustable emission of ultraviolet radiations. 3,466,443, 9-9-69, Cl. 250-86.
Roesner, Lawrence C.; and Moen, Lenard E., 63 3/4% to Precision Produce Specialties, Inc., and 36 1/4% to Calavo Growers of California. Carton forming machine. 3,456,563, 7-22-69, Cl. 93-55.
Roessel, Hilmar: *See—*
Walker, Geoffrey Roy; and Roessel, Hilmar,3,429,054.
Roessger, Edgar: *See—*
Corleis, Horst; Bernotat, Rainer; and Roessger, Edgar,3,466,923.
Roessing, Keith W.: *See—*
Rebhun, Charles F.; and Roessing, Keith W.,3,426,437.
Roethele, Werner: *See—*
Noll, Klaus Reinhold; Berg, Alex; Machleidt, Hans; Roethele, Werner; and Engelhardt, Gunther,3,470,190.
Roethke, Ernst: *See—*
Schulz, Gunter; and Roethke, Ernst,3,462,934.
Roethlein, Richard J.: *See—*
Lyons, Ernest H., Jr.; Maget, Henri J. R.; and Roethlein, Richard J.,3,461,044.
Maget, Henri J. R.; and Roethlein, Richard J.,3,425,874.
Roevac-Bell Limited: *See—*
Bell, Peter Martin, 3,455,424.
Roever, William L., to Shell Oil Company. Acoustic apparatus for mapping the surface characteristics of a borehole. 3,464,513, 9-2-69, Cl. 181-0.5
Rofe, Duane H., to United States of America, Army, mesne. Bellows flex joint. 3,459,444, 8-5-69, Cl. 285-226.
Rofe, Duane H.; Rambie, Edward J.; and McCartney, John M., to United States of America, Army. Engine mount and vibration isolator. 3,482,808, 12-9-69, Cl. 248-9.
Roff, William T., Jr., to Deering Milliken Research Corporation. Method of improving hand of fabrics. 3,483,024, 12-9-69, Cl. 117-139.5
Roffia, Paolo: *See—*
Pregaglia, Gianfranco; Pozzi, Giancarlo; and Roffia, Paolo,3,422,073.
Pregaglia, Gianfranco; Roffia, Paolo; and Pozzi, Giancarlo,3,468,848.
Roffler, Josua, to Sulzer Brothers Ltd. Apparatus for separating water from wet steam prior to superheating of the steam. 3,472,209, 10-14-69, Cl. 122-459.
Rogachev, Ivan Sergeevich: *See—*
Livshits, Abram Lazarevich; Rogachev, Ivan Sergeevich; Sosenko, Alexandr Borisovich; and Benin, Vladimir Lvovich,3,430,025.

Rogall, Herbert: *See—*
Carow, Walter M.; and Rogall, Herbert,3,438,266.
Rogallo, Francis M. Control devices for flexible wing aircraft. 3,423,049, 1-21-69, Cl. 244-43.
Rogallo, Francis M. Control devices for flexible wing aircraft. 3,423,050, 1-21-69, Cl. 244-43.
Rogallo, Francis M. Control devices for flexible wing aircraft. 3,429,529, 2-25-69, Cl. 244-35.
Rogallo, Francis M. Control devices for flexible wing aircraft. 3,446,458, 5-27-69, Cl. 244-43.
Rogallo, Francis M. Control devices for flexible wing aircraft. 3,458,162, 7-29-69, Cl. 244-43.
Rogallo, Francis M. Control devices for flexible wing aircraft. 3,460,784, 8-12-69, Cl. 244-138.
Rogallo, Francis M. Control devices for flexible wing aircraft. 3,464,652, 9-2-69, Cl. 244-43.
Rogallo, Francis M.; and Naeseth, Rodger L., to United States of America, National Aeronautics and Space Administration. Aeroflexible structures. 3,443,779, 5-13-69, Cl. 244-138.
Rogallo, Vernon L. Ballistocardiograph. 3,465,747, 9-9-69, Cl. 128-2.05
Rogalski, Werner; Wahlig, Helmut; and Hepding, Ludwig, to Merck, E., A.G. Water-soluble tetracycine derivatives. 3,461,161, 8-12-69, Cl. 260-559.
Rogen, Neil E.; and Hill, Russell J., to Avco Corporation. Temperature indicating device. 3,440,997, 4-29-69, Cl. 116-114.5
Rogen, Neil E.; and Hill, Russell J., to Avco Corporation. Temperature sensing. 3,483,748, 12-16-69, Cl. 73-339.
Rogen, Neil E.; and Hill, Russell J., to Avco Corporation. Temperature monitor. 3,483,752, 12-16-69, Cl. 73-362.8
Roger, Magruder & Hoyt: *See—*
Smith, Ruth A., 3,456,657.
Roger, Van Asbroeck, to Vypak Corporation, mesne. Device for the automatic removal of ridges from the bottom of hollow objects plastic materials. 3,458,897, 8-5-69, Cl. 18-5.
Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W. Preparation of whole egg magma product. 3,471,302, 10-7-69, Cl. 99-161.
Rogers, Arthur C.: *See—*
Gelting, Raymond L.; Fiorentino, Anthony J.; and Rogers, Arthur C.,3,476,609.
Rogers, Arthur O., to Du Pont de Nemours, E. I., and Company. Recovery of copper and cyanide values from cuprous cyanides. 3,443,893, 5-13-69, Cl. 23-125.
Rogers, Arthur O., to Du Pont de Nemours, E. I., and Company. Production of tetrahydrofuran from 1,4- butanediol. 3,467,679, 9-16-69, Cl. 260-346.1
Rogers, Asa Scobey, Jr., to Cutters Machine Company, Inc. Catcher mechanism for cloth spreading machine. 3,464,689, 9-2-69, Cl. 270-31.
Rogers, Asa Scobey, Jr.: *See—*
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B.,3,468,529.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B.,3,479,023.
Rogers, Bill A., to Bendix Corporation, The. Signal processing circuit. 3,436,683, 4-1-69, Cl. 332-47.
Rogers, C. J., Enterprises Inc.: *See—*
Rogers, Charles J., Sr., 3,436,599.
Rogers, Charles J., Sr., 3,450,947.
Rogers, Charles J., Sr., to Rogers, C. J., Enterprises Inc. Electrical ground fault protective circuit. 3,436,599, 4-1-69, Cl. 317-18.
Rogers, Charles J., Sr., to Rogers, C. J., Enterprises, Inc. Electrical safety circuit. 3,450,947, 6-17-69, Cl. 317-18.
Rogers, Charles J.: *See—*
Zagotta, Nicholas A.; and Rogers, Charles J.,3,463,325.
Rogers, Charles J.: *See—*
Zagotta, Nicholas A.; and Rogers, Charles J.,3,463,325.
Rogers Corporation: *See—*
Bogue, Irving R., 3,471,683.
Rogers, Cyril B., to Clark Equipment Company. Inflatable material moving device. 3,430,780, 3-4-69, Cl. 214-1.
Rogers, Dick, 50% to Isaacks, Dwight W. Interior line-up clamp. 3,469,299, 9-30-69, Cl. 29-200.
Rogers, Dilworth T., to Esso Research and Engineering Company. Process of making structural elements with compacted aggregate. 3,432,322, 3-11-69, Cl. 106-281.
Rogers, Dilworth T.; and Munday, John C., to Esso Research and Engineering Company. Agricultural soil compositions and method for using same to treat agricultural soil. 3,464,156, 9-2-69, Cl. 47-58.
Rogers, Donald E. Roll dispensing means. 3,473,749, 10-21-69, Cl. 242-55.53
Rogers, Donald J.; and Van Horn, John A., to Hamilton Watch Company. Watch calendar setting mechanism. 3,427,798, 2-18-69, Cl. 58-58.
Rogers, Edward A., to Wilkinson Sword Limited. Handtools. 3,458,933, 8-5-69, Cl. 30-261.
Rogers, Edward F.: *See—*
Clark, Robert L.; Patchett, Arthur A.; and Rogers, Edward F.,3,474,169.
Patchett, Arthur A.; Clark, Robert L.; and Rogers, Edward F.,3,448,193.
Patchett, Arthur A.; Rogers, Edward F.; and Clark, Robert L.,3,449,403.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J.,3,453,265.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J.,3,454,557.
Patchett, Arthur A.; Rogers, Edward F.; and Leanza, William J.,3,479,401.
Rogers, Edward F.; and Clark, Robert L., to Merck & Co., Inc. Control of coccidiosis in poultry. 3,422,200, 1-14-69, Cl. 424-310.
Rogers, Edward F.; and Clark, Robert L., to Merck & Co., Inc. Compositions and methods for controlling coccidiosis in poultry with 2,4-disubstituted benzamide. 3,429,969, 2-25-69, Cl. 424-230.
Rogers, Edward F.; and Clark, Robert L., to Merck & Co., Inc. Preparation of 2-chloro-4-nitro-6-methylbenzamide. 3,431,300, 3-4-69, Cl. 260-558.
Rogers, Edward F.; Clark, Robert L.; and Patchett, Arthur A., to Merck & Co., Inc.Lower alkyl α-carboalkoxy-β-(3,4-disubstituted anilino) acrylates. 3,478,084, 11-11-69, Cl. 260-471.
Rogers, Edward Laurence, to Railroad Machinery Development Corporation. Automatic weighing scale calibration. 3,439,524, 4-22-69, Cl. 73--001
Rogers, Edward S.: *See—*
Ballard, Henry D., Jr.; Mooi, John; and Rogers. Edward S.,3,422,033.
Kovach, Stephen M.; and Rogers, Edward S.,3,422,002.
Kovach, Stephen M.; and Rogers, Edward S.,3,437,588.
Rogers, Elwood C., Jr., to Fotomatic Corporation. Radiation-sensitive control for photographic reproducing device. 3,439,177, 4-15-69, Cl. 250-219.
Rogers, Eric: *See—*
Jones, Alun Angus; and Rogers, Eric,3,446,750.
Rogers, Ernest William: *See—*
Learney, Lewis Philip; and Rogers, Ernest William,3,451,013.
Rogers, Ernest William; Dillon, Peter; and Mitchell, Christopher Richard, to Redifon Limited. Radio frequency amplifier with variable- gain stage for overload protection. 3,480,871, 11-25-69, Cl. 330-29.
Rogers, Frederick F., to Western Electric Company, Incorporated. Method of and system for heterodyning employing a single source of signals. 3,439,266, 4-15-69, Cl. 324-58.
Rogers, Fulton F., Jr., to Du Pont de Nemours, E. I., and Company. Polymerization of aromatic amino dicarboxylic acid anhydrides. 3,450,678, 6-17-69, Cl. 260-78.
Rogers, George W., to Goodwill Industries of Western Connecticut, Inc. Ice velocipede. 3,441,285, 4-29-69, Cl. 280-7.12
Rogers, Gerald H. Control mechanism for water softening systems. 3,465,881, 9-9-69, Cl. 210-143.
Rogers, Gerson George, to Philadelphia Insulated Wire Company. Strippable insulated electrical wire. 3,463,871, 8-26-69, Cl. 174-120.
Rogers, Gilbert; and Noonan, Donald F., to Robertshaw Controls Company. Switch construction with mounting slots. 3,443,048, 5-6-69, Cl. 200-168.
Rogers, Harold: *See—*
Gagnon, Roland K.; Marzocchi, Alfred; and Rogers, Harold,3,444,116.
Rogers, Harry T. Apparatus and process for conveying barrels. 3,486,608, 12-30-69, Cl. 198-218.
Rogers, Harry T. Barrel driving and chocking device. 3,486,609, 12-30-69, Cl. 198-218.
Rogers, Henry T., to Hunt, Rodney, Company. Apparatus for stripping web material from nip rolls. 3,469,755, 9-30-69, Cl. 226-172.
Rogers, Howard G.: *See—*
Bloom, Stanley M.; and Rogers, Howard G.,3,443,940.
Farney, Leonard C.; Rogers, Howard G.; and Young, Richard W.,3,455,686.
Rogers, Howard G., to Polaroid Corporation. Photographic process and product. 3,433,635, 3-18-69, Cl. 96-29.
Rogers, Howard G., to Polaroid Corporation. Variable light-filtering device. 3,443,859, 5-13-69, Cl. 350-160.
Rogers, Howard G., to Polaroid Corporation. Dye transfer control by silver ions. 3,443,941, 5-13-69, Cl. 96-3.
Rogers, Howard G., to Polaroid Corporation. Color diffusion transfer process utilizing ultraviolet light absorbers. 3,460,942, 8-12-69, Cl. 96-29.
Rogers, Howard G., to Polaroid Corporation. Color compensated shutter. 3,468,228, 9-23-69, Cl. 95-12.20
Rogers, Howard G., to Polaroid Corporation. Polarized light projecting assembly. 3,473,013, 10-14-69, Cl. 240-9.5
Rogers, Howard G., to Polaroid Corporation. Novel photographic products and processes. 3,473,924, 10-21-69, Cl. 96-3.
Rogers, Howard G.; and Bloom, Stanley M., to Polaroid Corporation. Photographic products and processes employing ring-closing 2-equivalent silver halide developing agents. 3,443,943, 5-13-69, Cl. 96-29.
Kasman, Sidney; and Rogers, Howard G.,3,438,775.
Land, Edwin H.; and Rogers, Howard G.,3,443,855.

Rogers, Howard H.: *See—*
Lawton, Emil A.; and Rogers, Howard H.,3,454,476.
Rogers, James F.: *See—*
Ragon, Carl A.; and Rogers, James F.,3,450,132.
Rogers, Joan H.: *See—*
Dunbar, Joseph E.; and Rogers, Joan H.,3,462,472.
Rogers, Joe Y., Jr.: *See—*
Lewis, William H.; and Rogers, Joe Y., Jr.,3,481,754.
Rogers, Joe Young, Jr.; and Lewis, William H., to Cabot Corporation. Process for making high volatile carbon blacks. 3,436,240, 4-1-69, Cl. 106-307.
Rogers, John Anthony, to Metal Box Company Limited, The. Sealing of cartons. 3,471,995, 10-14-69, Cl. 53-376.
Rogers, John Harlan, to Standard Engineering Company, The. Rotor assembly for a shredder implement. 3,477,214, 11-11-69, Cl. 56-295.
Rogers, Kenneth C.: *See—*
Simon, Donald R.; Rogers, Kenneth C.; and Sileo, Francis R.,3,426,233.
Rogers Limited: *See—*
Dolman, Henry J., 3,463,171.
Rogers, Lucious E., Jr., 50% to Morgan, Neil A. Tamper-proof box constructions. 3,429,472, 2-25-69, Cl. 217-62.
Rogers, Max W., to Motorola, Inc. Squelch control circuit. 3,478,272, 11-11-69, Cl. 325-478.
Rogers, Maxwell B., to Catalyst Research Corporation. High energy primary cell. 3,424,621, 1-28-69, Cl. 136-100.
Rogers, Norine H.: *See—*
Ragon, Carl A.; and Rogers, James F.,3,450,132.
Rogers, Philip A.: *See—*
Wood, Fenton M.; Walters, William T.; Rogers, Philip A.; and Proctor, Noel B.,3,437,810.
Rogers, Ralph P. Railroad boxcar door construction. 3,431,964, 3-11-69, Cl. 160-23.
Rogers, Roland T., to Amerace Esna Corporation, mesne. Monostable multivibrator pulse shaper. 3,443,118, 5-6-69, Cl. 307-88.
Rogers, Roland T., to Amerace Esna Corporation, mesne. Counter system and magnetic core reset circuit therefor. 3,444,538, 5-13-69, Cl. 340-174.
Rogers, Ronald S., to Phillips Petroleum Company. Distillation process with polymerization inhibitor addition at specific locations for the purification of polymerizable organic compounds. 3,448,015, 6-3-69, Cl. 203-8.
Rogers, Rupert O.: *See—*
Wannamaker, Thomas M.; Carter, Charles I.; and Rogers, Rupert O.,3,428,239.
Rogers, Russell H.: *See—*
Schiltz, Lee R.; and Rogers, Russell H.,3,424,546.
Rogers, Stephen L., Jr.: *See—*
Raulston, James Leonard; and Rogers, Stephen L., Jr.,3,477,420.
Rogers, Thelmer A. Tractor mounted vibrating plow. 3,448,813, 6-10-69, Cl. 172-40.
Rogers, Thelmer A. Vibrating plow. 3,451,487, 6-24-69, Cl. 172-40.
Rogers, Thelmer A. Safety valve system. 3,455,315, 7-15-69, Cl. 137-14.
Rogers, Thelmer A. Safety valve system-structure. 3,455,316, 7-15-69, Cl. 137-73.
Rogers, Thelmer A. Constant move automatic irrigator. 3,463,175, 8-26-69, Cl. 137-1.
Rogers, Walter Clark, Jr., to Royal Development Company, Inc. Sofa bed. 3,456,268, 7-22-69, Cl. 5-17.
Rogers, Wendal A. Filter unit. 3,428,180, 2-18-69, Cl. 210-311.
Rogers, William C. Trailing antenna for aircraft. 3,487,412, 12-30-69, Cl. 343-707.
Rogers, William C. Marker beacon antenna. 3,487,463, 12-30-69, Cl. 343-708.
Rogers, William M., Jr., to Johns-Manville Corporation. Method and apparatus for manufacturing felted fibrous products. 3,477,905, 11-11-69, Cl. 162-203.
Rogers, William O.; and Wang, Chan Huan, to Texas Instruments, Incorporated. Process for fabricating hermetic glass seals. 3,482,419, 12-9-69, Cl. 65-36.
Rogers, William Paul. Electronic ignition circuit. 3,431,901, 3-11-69, Cl. 123-148.
Rogers, Williams D., to Sheller-Globe Corporation. Method of making a temperature sensing bulb. 3,453,715, 7-8-69, Cl. 29-416.
Rogge, Bernhard. Method and apparatus for feeding capsules. 3,457,691, 7-29-69, Cl. 53-3.
Rogge, Bernhard, to United States of America, Army. Plug feeding device. 3,474,932, 10-28-69, Cl. 221-188.
Rogge, Bernhard. Fastener-self-locking. 3,483,612, 12-16-69, Cl. 29-520.
Rogge, Gail E. Tandem axle accessory for pickup trucks. 3,436,096, 4-1-69, Cl. 280-150.
Rogge, John C.; and Walther, George W., to Scott & Fetzer Company, The, mesne. Floor machine. 3,422,579, 1-21-69, Cl. 51-176.
Roggenburk, Earl G. Rotary fluid displacement machine with unitary end plate and bearing construction. 3,460,437, 8-12-69, Cl. 91-58.
Roggero, Arnaldo: *See—*
Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo,3,464,959.
Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo,3,470,138.
Roggero, Costantino. Handle for elastic exercising device. 3,460,829, 8-12-69, Cl. 272-82.
Roggie, William C.: *See—*
Herrell, Robert C.; and Roggie, William C.,3,452,837.
Rogier, Edgar R.: *See—*
Kamal, Marwan R.; and Rogier, Edgar R.,3,455,883.
Rogier, Edgar R.; and Wiley, Fred E., to General Mills, Inc. High molecular polyamide safety glass laminate and method of manufacture. 3,447,999, 6-3-69, Cl. 161-197.
Rogler, Walter: *See—*
Lenz, Arnold; and Rogler, Walter,3,468,621.
Rogoff, Leonard S. Advertising displays. 3,465,459, 9-9-69, Cl. 40-28.1
Rogoff, Martin H., to International Minerals & Chemical Corporation. Method for the preparation of salicylic acid. 3,420,741, 1-7-69, Cl. 195-28.
Rogovin, Lawrence: *See—*
Wikman, Andrew O.; and Rogovin, Lawrence,3,468,965.
Rogovin, Seymour Peter, to United States of America, Agriculture. Continuous process for producing xanthomonas heteropolysaccharide. 3,485,719, 12-23-69, Cl. 195-31.
Rogovin, Seymour Peter: *See—*
Smiley, Karl L.; Cadmus, Martin C.; and Rogovin, Seymour Peter,3,427,224.
Rogowsky, York: *See—*
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner,3,447,066.
Rogstad, Vernon R.; and Sims, Robert W., to Monsanto Company. Low-volume chamber for electrical potential measurements. 3,434,045, 3-18-69, Cl. 324-30.
Rogue Reels, Inc.: *See—*
Parks, Bert H., 3,448,942.
Rogus, Joseph A., to Mid-West Metallic Products, Inc. Clip-supported shelf for tiering and nesting rack. 3,455,463, 7-15-69, Cl. 211-126.
Roh, Peter: *See—*
Menke, Helmut; and Roh, Peter,3,476,623.
Rohde & Schwarz: *See—*
Kraus, Alexander; and Richter, Josef, 3,423,675.
Kraus, Alexander; and Sonnberger, Horst, 3,486,161.
Rohde, John J., to Albemarle Paper Company. Package for frangible articles. 3,438,488, 4-15-69, Cl. 206-62.
Rohde, John J. Article of manufacture and construction thereof. 3,445,949, 5-27-69, Cl. 40-124.1
Rohde, John J. File carton. 3,473,722, 10-21-69, Cl. 229-37.
Rohde, LeRoy H., to West Company, The. Tamper-proof container closure. 3,464,576, 9-2-69, Cl. 215-42.
Rohde, LeRoy H., to West Company, The. Container closure. 3,480,171, 11-25-69, Cl. 215-46.
Rohde, Paul A., to Baltimore Biological Laboratory. Microorganism culturing assembly. 3,449,210, 6-10-69, Cl. 195-139.
Rohde, Robert P., to General Motors Corporation. Vane-type rotary mechanism. 3,437,264, 4-8-69, Cl. 230-157.
Rohde, Robert P., to General Motors Corporation. Vane-type rotary mechanism. 3,437,265, 4-8-69, Cl. 230-157.
Rohde, Theodore M., to General Electric Company. Finned heat exchanger tubing and method of manufacture thereof. 3,457,756, 7-29-69, Cl. 72-186.
Rohdin, Adolph A.: *See—*
Rohdin, Howard A.; and Rohdin, Adolph A.,3,457,700.
Rohdin, Howard A.; and Rohdin, Adolph A., to Packaging Industries Limited, Inc. Apparatus for heat sealing lids on preformed containers. 3,457,700, 7-29-69, Cl. 53-373.
Rohe, Frederick W. Molded-in insert with floating nut. 3,434,261, 3-25-69, Cl. 52-617.
Roher-Bohm Limited: *See—*
Gregori, Werner K. H., 3,420,023.
Rohl, Cornelius W.; and Robinson, James H., to Carborundum Company, The, mesne. Process for producing reinforced carbon and graphite bodies. 3,462,289, 8-19-69, Cl. 117-46.
Rohland, Paul Gerhard. Rope clamp with a cone end. 3,473,199, 10-21-69, Cl. 24-123.
Rohleder, Joseph: *See—*
McArdle, John C.; and Rohleder, Joseph,3,473,578.
Rohlfing, Raymond G.; and Marwil, Stanley J., to Phillips Petroleum Company. Pressure relief system for pressure vessels. 3,451,785, 6-24-69, Cl. 23-285.
Rohlik, Sigmund. Camera case. 3,473,590, 10-21-69, Cl. 150-52.
Rohling, Hermann. Root controlled watering device. 3,438,575, 4-15-69, Cl. 239-1.
Rohm & Haas Company: *See—*
Bayer, Horst O.; and Unger, Victor H., 3,433,623.
Bayer, Horst O.; Lewis, Sheldon N.; and Unger, Victor H., 3,468,946.
Beavers, Ellington M.; and Koroly, Joseph E., 3,448,125.

Cenci, Harry J.; and Hurwitz, Marvin J., 3,485,775.
Chaille, James L.; Niederhauser, Warren D.; and Kennedy, Al, 3,427,297.
Chaille, James L.; and Reed, Samuel F., Jr., 3,440,280.
Clements, David H., 3,476,697.
Clovis, James Stanley, 3,454,540.
Coe, Beresford, 3,438,829.
deBenneville, Peter L.; and Exner, Lawrence J., 3,473,901.
Emmons, William D., 3,446,777.
Emmons, William D.; and Rolewicz, Henry A., 3,450,742.
Emmons, William D.; and Levy, Jerome F., 3,468,934.
Emmons, William D.; and Mercurio, Andrew, 3,468,973.
Fiarman, Irwin S.; and Gehman, David R., 3,467,610.
Forsyth, George E., 3,468,980.
Freeman, Jeremiah P., 3,446,847.
Glavis, Frank J.; Clemens, David H.; and McDonnell, Roger P., 3,442,799.
Glavis, Frank J., 3,453,245.
Hawthorne, Marion F.; and Pitochelli, Anthony R., 3,453,092.
Hetherington, Richard; and Foley, Joseph, 3,423,311.
Kun, Kenneth A.; and Kunin, Robert, 3,454,493.
Leister, Norman A., 3,451,933.
Lewis, Sheldon N.; and Miller, George A., 3,449,388.
Lowell, John A.; and Buechler, Peter R., 3,441,365.
Mansfield, Richard C., 3,420,896.
McKeever, Charles Harlan; and Dohling, Jerome, 3,439,050.
Merritt, Richard F., 3,487,093.
Mettalia, Joseph B., Jr.; and Specht, Edward H., 3,476,797.
Miller, George A., 3,453,311.
Nemec, Joseph W.; and Schlaefer, Francis W., 3,441,613.
Petry, Robert C.; and Reed, Samuel F., Jr., 3,439,039.
Preuss, Albert F.; White, Harry J.; and Clemens, David H., 3,448,049.
Reed, Samuel F., 3,427,295.
Reed, Samuel F., Jr., 3,436,381.
Reed, Samuel F., Jr., 3,436,382.
Rosenthal, Isadore, 3,428,047.
Ryan, Charles Francis; and Crochowski, Raymond John, 3,426,101.
Ryan, Charles Francis; and Grochowski, Raymond John, 3,448,173.
Schmitt, Theophil D., 3,483,075.
Scofield, Gerald A., 3,471,354.
Stevens, Travis E., 3,439,017.
Unger, Victor H., 3,443,927.
Viste, Kenneth L., 3,468,655.
Whalen, Henry F., Jr., 3,473,996.
White, Robert W.; and O'Brien, Joseph L., 3,453,327.
Yanai, Hideyasu S.; and Jungster, Lore, 3,468,976.
Zimmerli, Frederick H., 3,447,906.

Rohm & Haas G.m.b.H.: *See—*
Gruber, Wilhelm, 3,423,329.
Gruber, Wilhelm, 3,426,061.
Gruber, Wilhelm; and Quis, Peter, 3,462,471.
Gruber, Wilhelm; and Quis, Peter, 3,467,668.
Kautter, Carl Theodor; Baumann, Ulrich; and Riemann, Karl Heinz, 3,458,561.
Kretz, Robert; and Hosch, Ludwig, 3,457,180.
Schroder, Gunter; Fink, Herbert; and Goth, Helmut, 3,454,628.

Rohm, Edward L.: *See—*
Rowlands, Richard O.; and Rohm, Edward L.,3,457,508.

Rohmer, Richard H. System for the underground storage of liquids. 3,465,527, 9-9-69, Cl. 61-0.5

Rohn, William C.: *See—*
Schmitt, Howard J.; and Rohn, William C.,3,464,795.

Rohner, Thomas G.: *See—*
Schlicher, David W.; and Rohner, Thomas G.,3,463,987.

Rohr Corporation: *See—*
Cadwell, Gilbert C., 3,452,565.
Clements, Harry R., 3,470,656.
Gerard, Milan E., 3,435,185.
Gerard, Milan E., 3,485,998.
Kendall, Earl W., 3,468,774.
Rush, Hugh M.; and Gerard, Milan E., 3,456,092.
Rush, Hugh M., 3,463,897.
Weidel, Joseph C., 3,441,459.

Rohr, Harry: *See—*
Weitzel, Hans; Dinges, Karl; and Rohr, Harry,3,449,471.

Rohr, Otto: *See—*
Duerr, Dieter; Rohr, Otto; Aebi, Hans; and Ebner, Ludwig,3,429,689.
Nikles, Erwin; and Rohr, Otto,3,455,983.

Rohr, Otto, to Ciba Limited. Pesticidal preparation and method of use. 3,421,883, 1-14-69, Cl. 71-105.

Rohr, Otto, to Ciba Limited. Pesticidal preparations containing carbonyl and thiocarbonyl phosphates and method of employing the same. 3,472,933, 10-14-69, Cl. 424-211.

Rohr, Otto, to Ciba Limited. 3,5-Dihalo-4-carbamato benzonitriles. 3,480,658, 11-25-69, Cl. 260-465.

Rohr, Otto; and Hubele, Adolf, to Ciba Limited. Pesticidal preparations and compounds. 3,423,470, 1-21-69, Cl. 260-612.

Rohrbach, Philippe; and Blum, Jean, to Manufactures J. R. Bottu. Pharmaceutical compositions and methods for reducing appetite in animals. 3,485,924, 12-23-69, Cl. 424-304.

Rohrbacher, George H., Jr.: *See—*
Bullock, Milon W.; and Rohrbacher, George H., Jr.,3,435,100.

Rohrbacher, George Henri, Jr.: *See—*
Wood, Irwin Boyden; Rohrbacher, George Henri, Jr.; and Bambury, Ronald Edward,3,444,299.

Rohrbacher, Herbert E., to Bergandi Manufacturing Company, Inc. Drive shaft control. 3,438,473, 4-15-69, Cl. 192-148.

Rohrbacher, Herbert E., to Bergandi Manufacturing Company, Inc. Fabrication of woven wire fencing incorporating slats. 3,446,254, 5-27-69, Cl. 140-27.

Rohrborn, Hans-Joachim; Clausen, Heinrich; Grassmann, Wolfgang; and Valet, Gerhard, to Pigment-Chemie, G.m.b.H.Antimony and arsenic compound treatment of TiO_2 for laminate papers. 3,432,324, 3-11-69, Cl. 106-300.

Rohrer, Carl H. Apparatus for testing gas mains. 3,439,527, 4-22-69, Cl. 73-40.5

Rohrer, Clarence E.: *See—*
Ehrhart, Wendell A.; and Rohrer, Clarence E.,3,457,236.

Rohrer, Daniel F., to Varian Associates. Vacuum actuator and vacuum system using same. 3,480,200, 11-25-69, Cl. 230-45.

Rohrer, Jean: *See—*
Heimlicher, Paul; and Rohrer, Jean,3,440,957.

Rohrer, Karl R. Underground fluid storage tank. 3,485,049, 12-23-69, Cl. 61-0.5

Rohrer, Kurt: *See—*
Langenberger, Helmut; and Rohrer, Kurt,3,453,953.

Rohrer, Raymond E., 85% to Bilger, Donald E., and 15% to Rawley, David A. Underground radio communication system for highways. 3,470,474, 9-30-69, Cl. 325-51.

Rohrig, John M.: *See—*
Anderson, Robert L.; and Rohrig, John M.,3,479,958.

Rohrig, Josef, to Siemens Aktiengesellschaft. Circuit arrangement for testing lines in communication systems. 3,430,000, 2-25-69, Cl. 179-18.

Rohrlick, Myles A. Closure for easy opening cans. 3,428,212, 2-18-69, Cl. 220-60.

Rohto Pharmaceutical Co., Ltd.: *See—*
Takemoto, Tsunematsu; Ogawa, Shuntaro; and Nishimoto, Nobushige, 3,433,814.

Rohweder, Gerald D.: *See—*
Broeker, Elmer W.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,463,278.
Callegari, William A.; Matthews, Ralph W.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,465,851.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,444,762.
Golan, Kenneth F.; Ohaver, David S.; Pearce, Shairyl I.; and Rohweder, Gerald D.,3,444,968.
Morris, Hugh C.; Pearce, Shairyl I.; Ramsel, Charles A.; and Rohweder, Gerald D.,3,429,328.

Rohweder, Glen Willard: *See—*
Oehler, Alvin William; and Rohweder, Glen Willard,3,474,606.

Roinestad, Gerald C., to Ashworth Bros., Inc. Central link collapsible conveyor belt. 3,467,239, 9-16-69, Cl. 198-195.

Roinestad, Gerald C.; Rodman, John F., Jr.; and Burnett, John S., to Ashworth Bros., Inc. Flat wire conveyor belt having slotted bar links. 3,439,795, 4-22-69, Cl. 198-193.

Roizen, Vladimir Zinovievich: *See—*
Ivakin, Boris Fedorovich; Vavilov, Igor Konstantinovich; Rozental, Nikolai Konstantinovich; and Roizen, Vladimir Zinovievich,3,448,418.

Rojecki, Walter E., to Black Clawson Company, The. Paper machinery. 3,447,453, 6-3-69, Cl. 100-162.

Rokal G.m.b.H., Messrs.: *See—*
Classen, Hans-Heinrich, 3,486,510.

Rokaw, Sheldon A.; and King, David J., to Morganite Incorporated. Current collecting triple wafer brush assembly. 3,445,704, 5-20-69, Cl. 310-246.

Rokfalussy, Desmond Michael: *See—*
Chaikin, Malcolm; Dircks, Alexander Douglas; and Rokfalussy, Desmond Michael,3,445,896.

Rokop, Joseph: *See—*
Tucker, Linwood G., Jr.; and Rokop, Joseph,3,440,145.

Rokosz, Leo F.: *See—*
Caiola, Robert J.; and Rokosz, Leo F.,3,459,710.

Rola, Arthur E., to Wilco Machine Work, Inc. Clipper. 3,433,109, 3-18-69, Cl. 83-401.

Rolamite Technology, Incorporated: *See—*
Wilkes, Donald F., 3,479,624.
Wilkes, Donald F., 3,486,143.

Roland, Edgar G.: *See—*
Robinson, Luther; and Roland, Edgar G.,3,473,629.

Roland Effselmaschinenfabrik Faber & Schleicher AG: *See—*
Wirz, Burkhardt, 3,442,121.

Roland, Ernesto T.: *See—*
Patterson, William F.; and Roland, Ernesto T.,3,454,951.
Patterson, William F.; and Roland, Ernesto T.,3,465,346.

Roland, James A., to SI Handling Systems, Inc. Towtruck system. 3,461,812, 819-69, Cl. 104-172.
Roland, Max G., 1/2 interest to Atkinson, William H. Pneumatic self-sealing plug-in coupling. 3,453,007, 7-1-69, Cl. 285-137.
Roland, Max G., to Roland Mfg. Co. Foot control valve for dental machine. 3,476,153, 11-4-69, Cl. 137-636.1
Roland Mfg. Co.: *See—*
Roland, Max G., 3,476,153.
Roland Offsetmaschinenfabrik Faber & Schleicher AG: *See—*
Kammuller, Reiner; and Wirz, Burkhardt, 3,439,175.
Koch, Werner; and Preuss, Friedrich, 3,477,710.
Piecha, Georg; and Langer, Karl, 3,470,816.
Roland, Robert J.: *See—*
Dehne, Clarence A.; and Roland, Robert J.,3,420,188.
Rolauffs, Hans, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Embroidery frame adjusting arrangement. 3,468,268, 9-23-69, Cl. 112-86.
Rolauffs, Hans; and Hoever, Franz, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Embroidering machine with a spreading and clamping device for hose-shaped material to be embroidered. 3,443,536, 5-13-69, Cl. 112-103.
Role, Harry: *See—*
Kruizenga, Jack R.; Graves, Donald C.; and Role, Harry,3,479,724.
Rolen Diversified Investors, Inc.: *See—*
Thielen, David E., 3,430,007.
Roles, David J.: *See—*
Znamirowski, Henry; and Roles, David J.,3,457,688.
Rolewicz, Henry A.: *See—*
Emmons, William D.; and Rolewicz, Henry A.,3,450,742.
Rolf, Ramon F., to Dow Chemical Company, The. Process for the selective recovery of manganese and iron from ores. 3,471,285, 10-7-69, Cl. 75-103.
Rolf, Robert E.; and Bolt, Harold H. Clip gun. 3,451,250, 6-24-69, Cl. 72-403.
Rolfe, Andrew T., to Rolfe Chemical Corporation. Composition and method for reducing air pollutants. 3,443,916, 5-13-69, Cl. 44-4.
Rolfe Chemical Corporation: *See—*
Rolfe, Andrew T., 3,443,916.
Rolfe, Ronald F.: *See—*
Wagar, Albert E.; and Rolfe, Ronald F.,3,485,423.
Rolfes, Hans, to Trans Continental Electronics Corporation. Cable connector for induction heating systems. 3,457,540, 7-22-69, Cl. 339-15.
Rolih, Robert John: *See—*
Bartell, Charles; Milutin, Ivan Cutukovic; Porsche, Jules Downes; and Rolih, Robert John,3,475,196.
Rolin, Etienne D. Structural unit for beam structures and flotation hulls and method of manufacture. 3,465,486, 9-9-69, Cl. 52-222.
Rolke, William, to Radio Corporation of America. Punched card reader. 3,433,932, 3-18-69, Cl. 235-61.11
Roll, Arthur A.: *See—*
Flynn, Paul D.; and Roll, Arthur A.,3,464,771.
Flynn, Paul D.; Roll, Arthur A.; and Gilbert, Joseph T.,3,434,786.
Roll, Jack A.; and Adams, Cecil E., to Hughes Tool Company, mesne. Control valve for limiting hydraulic motor speedup. 3,426,856, 2-11-69, Cl. 173-119.
Roll, Karl, to Beck, Walter, K.G., Kontroll- und Fernmessgerate. Liquid-level gauge. 3,438,255, 4-15-69, Cl. 73-299.
Roll, Louis C., to Eaton Yale & Towne Inc. Lift truck motor mounting. 3,481,420, 12-2-69, Cl. 180-65.
Roll-O-Flex Ltd.: *See—*
Fay, Lawrence P., 3,486,761.
Roll-O-Sheets, Inc.: *See—*
Burke, William J., 3,425,606.
Burke, William J., 3,430,359.
Burke, William J., 3,458,975.
Roll-Rite Corporation: *See—*
Christensen, Carl O., 3,433,500.
Rollamatic Roofs, Incorporated: *See—*
Miller, David S., 3,465,483.
Rolland, Grey F.; and Seipel, John J., to Foster, Benjamin, Company. Coating composition and process. 3,442,671, 5-6-69, Cl. 106-84.
Rollat, Germain, to Societe Genevoise d'Instruments de Physique. Tightening device of a tool in a spindle. 3,424,055, 1-28-69, Cl. 90-11.
Rollei-Werke Franke & Heidecke: *See—*
Sobotta, Reinhard, 3,434,360.
Waaske, Heinz, 3,444,796.
Waaske, Heinz, 3,470,800.
Waaske, Heinz, 3,470,804.
Roller, Albert E.: *See—*
Alfes, John A.; Redding, Harry L.; and Roller, Albert E.,3,425,747.
Roller Bearing Company of America: *See—*
Schmidt, Heinrich K., 3,464,747.
Schmidt, Henry K.; and Beimfohr, Siegfried, 3,467,450.
Roller, Donald C.: *See—*
Engle, Vencil D.; and Roller, Donald C.,3,481,445.
Roller Shear Corporation: *See—*
Wheeler, Donald James, 3,476,000.
Roller, Wilferd L. Heavy medium separator. 3,420,371, 1-7-69, Cl. 209-172.5
Roller, Wilferd L. Screen apparatus. 3,456,785, 7-22-69, Cl. 209-17.
Rollers By Baker, Inc.: *See—*
McGinley, James J., 3,447,184.
Rolles, Rolf; and Luyk, Kenneth E., to Aluminum Company of America. Flexible coating formulations comprising a nonoxidizing substantially saturated non- volatile synthetic alkyd resinous vehicle. 3,437,612, 4-8-69, Cl. 260-16.
Rollett, Anthony Victor; Smith, Alexander Steel; Cookson, Martin Alan; and Anderson, William, to British Bakeries Limited. Quality controlled production of dough. 3,485,188, 12-23-69, Cl. 107-54.
Rollett Mfg. Inc.: *See—*
Davis, Buell L.; and Pulliam, Richard D., 3,467,293.
Rollette, Robert C. Apparatus for applying color coating and reflective glass beads to stone. 3,422,792, 1-21-69, Cl. 118-5.
Rollette, Robert C. Method and apparatus for producing decorative stone. 3,470,012, 9-30-69, Cl. 117-54.
Rollig, Karl, to Schachenmann, C. Dr., & Co. Electric motor drive for two winding shafts. 3,465,185, 9-2-69, Cl. 310-112.
Rollins, Albert W.; and Rollins, Ronald A. Apparatus for sorting the conductors of a multiconductor cable. 3,476,888, 11-4-69, Cl. 179-175.25
Rollins, Dallas W., to ACF Industries, Incorporated. Audible signal device for trailer hitches on railway cars. 3,424,107, 1-28-69, Cl. 105-368.
Rollins, Dallas W., to ACF Industries, Incorporated. Single strut trailer hitches with cushioning means. 3,434,683, 3-25-69, Cl. 248-119.
Rollins, Dallas W., to ACF Industries, Incorporated. Audible signal means for trailer hitches on railway cars. 3,444,825, 5-20-69, Cl. 105-368.
Rollins, Eugene C., to Hesston Manufacturing Company, Inc. Comb for beet harvesters. 3,438,496, 4-15-69, Cl. 209-241.
Rollins, James A.: *See—*
Hearn, Glenn R.; Rollins, James A.; and Schaller, Frank H.,3,474,232.
Rollins, James W.: *See—*
Cowles, John H.; and Rollins, James W.,3,434,322.
Rollins, James W., to Torrington Company, The. Method and apparatus for cold-rolling annular members. 3,469,427, 9-30-69, Cl. 72-91.
Rollins, James W.; and Moroney, John J., to Torrington Company, The. Water pump bearing. 3,424,507, 1-28-69, Cl. 308-174.
Rollins, Ronald A.: *See—*
Rollins, Albert W.; and Rollins, Ronald A.,3,476,888.
Rollman, Ernest E., to Ro-Search, Incorporated. Method of manufacture of footwear with molded soles and footwear so manufactured. 3,466,684, 9-16-69, Cl. 12-142.
Rollor, Edward A., Jr. Container for heated liquids. 3,463,140, 8-26-69, Cl. 126-246.
Rolls-Royce Limited: *See—*
Beesley, Gilbert William, 3,477,795.
Bill, Arthur, 3,463,498.
Bracey, Kenneth Edward George; and Taylor, Paul Alfred, 3,448,582.
Britt, Jack; and Swain, Francis Alan, 3,428,243.
Brooks, Leslie John; and Morris, Geoffrey William, 3,422,624.
Brown, David Morris, 3,485,252.
Brownhill, Frank D.; and Walker, Michael K., 3,478,590.
Brownhill, Frank D.; Walker, Michael K.; and Ward, Peter A., 3,478,591.
Colley, Rowan H., 3,472,029.
Coplin, John Frederick; Longley, Peter; and Blackhurst, Robert Vaughan, 3,421,686.
Cowley, Sidney Ian; Wilde, Goeffrey Light; and Honey, Alfred John, 3,465,525.
Cox, Peter Oliver; and Cundall, James William, 3,474,988.
Cresswell, Roger A., 3,434,290.
Cross, Walter George, 3,439,497.
Davies, William John; Leyland, Rowland Powell; and Holmes, Albert George, 3,483,630.
Dryburgh, David Campbell, 3,422,290.
Eames, Keith, 3,420,056.
Ellinger, John H., 3,472,321.
Ellinger, John Henry, 3,467,198.
Emerick, George, 3,465,526.
Foote, Terence Roy Denis, 3,456,664.
Freeman, Frederick; and King, Peter, 3,469,868.
Gilbert, Ronald Albert; and Shire, Ralph John, 3,483,696.
Goss, Arthur G.; and Bill, Arthur, 3,473,853.
Harvey, Richard Alfred, 3,483,699.
Harvey, Richard Alfred; Gradon, Keith; and Chantry, John Alfred, 3,483,701.
Heywood, David Main, 3,486,480.
Jubb, Albert; and Johnson, Christopher Linley, 3,427,980.

King, Peter, 3,447,822.
King, Peter Roderick; and Litchfield, Dennis, 3,439,552.
Kitson, George Samuel; and Cresswell, Roger Anthony, 3,424,383.
Lambert, George; and Tennett, Anthony Alastair Baxter, 3,436,249.
Lawrence, Ivan Charles; and Rhodes, John Kenneth, 3,463,031.
Maguire, Addison Charles, 3,448,583.
Malley, Harry Hartley; and Halls, Gordon Allan, 3,427,001.
May, Gordon Cyril; and Moreton, Albert James, 3,453,825.
Melconian, Jerry Chanes, 3,439,498.
Mortlock, James Oswald; London, William Herbert; and Shaw, William, 3,475,913.
Mottram, Anthony William Thomas; and Scott-Scott, John Lanfear, 3,442,220.
Mottram, Anthony William Thomas, 3,484,859.
Palfreyman, Jack; and Shepherd, Norman Willie, 3,424,434.
Palfreyman, Jack; and Shepherd, Norman Willie, 3,456,917.
Parnell, David Harding; and Sotheran, Arthur, 3,479,823.
Petrie, James Alexander, 3,434,288.
Pike, Malcolm Roy, 3,439,692.
Pike, Malcolm Roy; and Bragg, Stephen Lawrence, 3,483,881.
Poole, Horace, 3,484,847.
Readman, John, 3,428,379.
Robey, Charles William, 3,424,374.
Rodgers, Leonard John, 3,432,911.
Ruffles, Philip Charles; and Williamson, Douglas Herbert, 3,483,697.
Sadler, Brian; and Ironmonger, Trevor, 3,475,303.
Scott, John Alexander Henderson, 3,422,623.
Shaw, William, 3,434,666.
Steel, Thomas; Petrie, James Alexander; and Honey, Alfred John, 3,438,400.
Taylor, John; and Purcell, Ronald, 3,479,273.
Thornton, Kenneth, 3,425,620.
Titterton, Ivan William, 3,455,812.
Ward, Peter Arthur, 3,483,702.
Wilde, Geoffrey Light; and Eyre, Donald, 3,462,953.
Wilkinson, Bernard H.; and Ogden, Harry, 3,463,720.
Wilkinson, Bernard Hall, 3,453,192.
Williamson, Douglas H., 3,486,686.
Wilson, John Francis; Goddard, John; and Glew, Derek Aubrey, 3,459,645.

Rollwitz, William L.; and Benson, Harvey S., to Southwest Research Institute. Depth measuring ultrasonic transceiver. 3,431,551, 3-4-69, Cl. 340-1.

Rolnick, Jerome M.: *See—*
Dorschu, Karl E.; and Rolnick, Jerome M.,3,453,142.

Rolnik, Savva Abramovich: *See—*
Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Kuznetsov, Leonid Georgievich; Niskovskikh, Vitaly Maximovich; and Rolnik, Savva Abramovich,3,480,075.

Roloff, August F.; and Roloff, Mina S. Non-piercing archery target. 3,476,390, 11-4-69, Cl. 273-102.

Roloff, Mina S.: *See—*
Roloff, August F.; and Roloff, Mina S.,3,476,390.

Rolon, Arnaldo, to Dresser Industries, Inc. Laser beam recorder with dual means to compensate for change in angular velocity of swept beam. 3,441,949, 4-29-69, Cl. 346-108.

Rolpa S.a.r.l.: *See—*
Karamata, Jean; and Celebonovic, Stevan, 3,464,644.

Rols, Gilbert: *See—*
Chiffert, Pierre; and Rols, Gilbert,3,449,386.

Rolscreen Company: *See—*
Evers, Robert S.; and Minter, Mearl J., 3,438,151.

Rolstead, Albert A.: *See—*
Burnsweig, Joseph, Jr.; Fairbanks, Bert J.; and Rolstead, Albert A.,3,421,121.

Romaine, Benjamin H.: *See—*
Kasting, Howard E.; and Romaine, Benjamin H.,3,439,864.

Romak, Albert. Split nut adapter tool. 3,430,527, 3-4-69, Cl. 81-90.

Roman, James A.;: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,426,746.

Roman, Leonard F.; and Elliott, George H., to Isofilm International. Apparatus and method for effecting the restructuring of materials. 3,437,734, 4-8-69, Cl. 13-31.

Roman, Michael H. Abnormal milk indicator. 3,485,086, 12-23-69, Cl. 73-61.

Roman, Robert J.: *See—*
Edwards, Evan A.; Ulmschneider, Lawrence A.; and Roman, Robert J.,3,465,980.

Roman, Robert J., to Eastman Kodak Company. Rim trap for photographic film projection cartridge. 3,467,341, 9-16-69, Cl. 242-197.

Roman, Robert J., to Eastman Kodak Company. Cover plate switch actuator interlocked with a second switch. 3,470,339, 9-30-69, Cl. 200-50.

Roman, Robert J., to Eastman Kodak Company. Projection cartridge. 3,480,226, 11-25-69, Cl. 242-71.1

Roman, Robert J.; O'Donnell, Miles C.; and Johnson, Robert B., to Eastman Kodak Company. Adjustable lens system for a motion picture projector. 3,484,159, 12-16-69, Cl. 352-140.

Romanauskas, William A., to Chase Brass and Copper Co., Inc. Sheet guiding and tensioning device. 3,453,847, 7-8-69, Cl. 72-10.

Romanek, Gerald A., to Johnson & Johnson. Disposable diaper. 3,426,756, 2-11-69, Cl. 128-287.

Romanek, Thomas: *See—*
Lipski, Mitchell, Sr.; and Romanek, Thomas,3,453,738.

Romanelli, Aldo: *See—*
Moser, Lester W.; and Romanelli, Aldo,3,443,625.

Romanelli, Pat, to Ram Domestic Products Company. Medical drainage pump. 3,429,313, 2-25-69, Cl. 128-276.

Romani, Edward P.: *See—*
Van Den Nieuwenhof, Ronald A.; and Romani, Edward P.,3,452,744.

Romani, Vito J.: *See—*
Ascuitto, Anthony L.; and Romani, Vito J.,3,435,778.

Romanick, John F.; and Pruiksma, Arthur B., to PPG Industries, Inc. Sprayable rubber adhesives. 3,466,256, 9-9-69, Cl. 260-27.

Romanick, John F.; and Pruiksma, Arthur B., to PPG Industries, Inc. Rubber adhesives. 3,475,362, 10-28-69, Cl. 260-25.

Romankiw, Lubomyr T.: *See—*
Castellani, Eugene E.; Keefe, George E.; and Romankiw, Lubomyr T.,3,483,534.

Romano, Adriana. Device for sensing the presence of a liquid or vapor in the atmosphere. 3,486,037, 12-23-69, Cl. 307-118.

Romano, Ned P. Interchangeable fence construction. 3,454,262, 7-8-69, Cl. 256-19.

Romano, Ralph, 10% to Lipsius, Harold, and 10% to Seidel, Arthur H. Pleater tape drapery hook and clip. 3,441,077, 4-29-69, Cl. 160-348.

Romanos, Nicholas D., to Combustion Engineering , Inc. Heat exchanger tube support and spacing structure. 3,420,297, 1-7-69, Cl. 165-162.

Romanos, Nicholas D., to Combustion Engineering, Inc. Method of fabricating a spherical vessel. 3,445,918, 5-27-69, Cl. 29-471.1

Romanova, Stepanida Trofimovna: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Romanowski, Thomas A.; and Rush, Charles J., to United States of America, Atomic Energy Commission. High-voltage pulsing apparatus for a spark chamber. 3,447,032, 5-27-69, Cl. 315-240.

Romansky, John, to McGraw-Edison Company. Shirt unloader and delivery apparatus. 3,464,602, 9-2-69, Cl. 223-57.

Romanzi, Louis, Jr.; and Epstein, Harry. Vehicle signal lamp system. 3,425,034, 1-28-69, Cl. 340-81.

Romanzi, Louis, Jr.; and Van Dorn, Jeffrey, to American Safety Equipment Corporation. Trigger release safety belt buckle apparatus. 3,457,603, 7-29-69, Cl. 24-241.

Romatowski, Johannes: *See—*
Wieden, Horst; Romatowski, Johannes; Moosmueller, Fritz; and Lenz, Hans,3,485,800.

Rombalski, Richard H.: *See—*
Oransky, Raymond L.; and Rombalski, Richard H.,3,480,432.

Rombau, Paul A., to Produits Chimiques Pechiney-Saint-Gobain. Process for purification of ytterbium. 3,446,576, 5-27-69, Cl. 23-22.

Romberg, Francis M., to Mobil Oil Corporation. Time break corrector for marine seismic signals. 3,432,805, 3-11-69, Cl. 340-15.5

Romberger, Floyd T., Jr. Portable bath unit. 3,484,872, 12-23-69, Cl. 4-6.

Romberger, Russell R.: *See—*
Hatton, Ronald W.; and Romberger, Russell R.,3,487,383.

Romboni, Albert H.: *See—*
Ambulos, Charles P.; Romboni, Albert H.; and Willard, Bernard S., Jr.,3,445,800.

Rombrecht, Hans-Malte: *See—*
Schmidt, Karl; Hansch, Ferdinand; and Rombrecht, Hans-Malte,3,459,829.

Rombusch, Konrad; and Eichers, Ursula, to Chemische Werke Huls, Aktiengesellschaft. Antistatic composition. 3,441,552, 4-29-69, Cl. 260-93.7

Rombusch, Konrad; and Eichers, Ursula, to Chemische Werke Huls Aktiengesellschaft. Crack-free anti-electrostatic molded bodies made from polyethylene. 3,441,553, 4-29-69, Cl. 260-94.9

Rombusch, Konrad; and Eichers, Ursula. Antistatic polyolefins. 3,485,786, 12-23-69, Cl. 260-80.78

Rombusch, Konrad; and Seifert, Friedrich, to Chemische Werke Huls Aktiengesellschaft. Compositions of antistatic agents and polyethylene and crack-free antistatic molded polyethylene bodies. 3,435,021, 3-25-69, Cl. 260-94.9

Rombusch, Konrad; and Seifert, Friedrich, to Chemische Werke Huls Aktiengesellschaft. Nonyellowing antielectrostatic molded masses and molded bodies. 3,438,955, 4-15-69, Cl. 260-93.7
Romeas, Rene: *See—*
Spitz, Erich; and Romeas, Rene,3,449,752.
Romell, Dag. Gas scrubber. 3,440,799, 4-29-69, Cl. 55-107.
Romeo, Philip L., Sr., to Engelhard Industries, Inc. Nitric acid tail gas purification. 3,425,803, 2-4-69, Cl. 23-162.
Romeo, Vincent P., to USM Corporation. Component inserters. 3,429,170, 2-25-69, Cl. 72-325.
Romeo, Vincent P., to USM Corporation. Means for inserting and deflecting components. 3,443,298, 5-13-69, Cl. 29-203.
Romeo, Vincent P., to USM Corporation. Automatic board unloader. 3,458,072, 7-29-69, Cl. 214-310.
Romer, Arnold; and Rinio, Johannes, to Maschinenfabrik und Eisengiesseri A. Beien. Scraper-chain conveyor, particularly face conveyor, suitable for cooperation with a getting machine. 3,458,235, 7-29-69, Cl. 299-34.
Romero, Jacob B., to Boeing Company, The. Uncontrolled nuclear decay propulsion and/or power systems. 3,447,321, 6-3-69, Cl. 60-203.
Romgens, Hans: *See—*
Bauer, Heinrich; Romgens, Hans; Sontag, Hans-Jurgen; and Zeppelzauer, Franz,3,451,871.
Romi, Giordano, to Industrias Romi S.A. Mechanism for regulating the operation of trans- missions or the like. 3,479,899, 11-25-69, Cl. 74-473.
Romie, Fred E.: *See—*
Bromberg, Robert; and Romie, Fred E.,3,465,813.
Romiguiere, Claude E., to Societe Thomson-Varian. High-frequency tube apparatus with output direct- coupled-resonator filter. 3,447,019, 5-27-69, Cl. 315-5.43
Romin, Alvin, Jr.: *See—*
Mattson, Charles A.; and Romin, Alvin, Jr.,3,468,041.
Romine, Donald J.: *See—*
Hallauer, William J.; and Romine, Donald J.,3,452,235.
Rominger, A. H., & Sons: *See—*
Heil, Frank J., 3,456,449.
Rominger, Albert H.: *See—*
Heil, Frank J., 3,456,449.
Rominger, Donald A.: *See—*
Heil, Frank J., 3,456,449.
Rominger, Richard E.: *See—*
Heil, Frank J., 3,456,449.
Rommel, Marjorie A.; and Dayan, Victor H., to United States of America, National Aeronautics and Space Administration. Hydrogen leak detection device. 3,472,629, 10-14-69, Cl. 23-254.
Rommerts, Jan Willem; and Westerhof, Thomas Jan, to U.S. Philips Corporation, mesne. Method of adjusting power output of a reflex klystron employing moveable permanent magnets and a reflex klystron with moveable magnets for adjusting power output. 3,444,420, 5-13-69, Cl. 315-5.18
Romualdi, James P., to Battelle Development Corporation, The, mesne. Two-phase concrete and steel material. 3,429,094, 2-25-69, Cl. 52-659.
Rona, Jean, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Pneumatic or hydraulic delay device. 3,437,100, 4-8-69, Cl. 137-81.5
Rona, Thomas P., to Boeing Company, The. Differential magnetometer having parallel rotating fields and associated sensing circuitry. 3,471,777, 10-7-69, Cl. 324-43.
Ronai, Kenneth S.: *See—*
Marotta, Nicholas G.; Bell, Harvey; and Ronai, Kenneth S.,3,482,984.
Marotta, Nicholas G.; Trubiano, Paolo C.; and Ronai, Kenneth S.,3,443,964.
Ronald, Ulrich Paul, to Northern Electric Company Limited. Composite electric cable with mechanical protection for structurally weak conductive elements. 3,485,224, 12-23-69, Cl. 124-109.
Ronan & Kunzl, Inc.: *See—*
Bidelman, Bruce B.; Maurer, Max L.; Lawler, Jack; and Millard, George R., 3,462,143.
Ronay, Thomas E.; and Dexheimer, Robert D., to Richardson Company, The. Phosphoric acid esters and polymers thereof. 3,441,544, 4-29-69, Cl. 260-78.5
Ronceray, Andree Jacqueline Laure: *See—*
Ronceray, Robert Andre Marcel,3,432,940.
Ronceray, Francoise Monique Mary: *See—*
Ronceray, Robert A. M.,3,454,232.
Ronceray, Robert Andre Marcel,3,432,940.
Ronceray, Lena Sarah,: *See—*
Ronceray, Robert Andre Marcel,3,432,940.
Ronceray, Pierre Robert: *See—*
Ronceray, Robert A. M.,3,454,232.
Ronceray, Robert Andre Marcel,3,432,940.
Ronceray, Robert A. M., deceased0 (by Yeomans, Lena Sarah0Ronceray,Andree Jacqueline Laure0Ronceray, Francoise Monique Mary; and0Ronceray, Pierre Robert; heirs). Mixer-grinder, especially for foundry sands. 3,454,232, 7-8-69, Cl. 241-110.
Ronceray, Robert Andre Marcel, deceased0 (by Ronceray, Pierre Robert0Ronceray, Lena Sarah,0Ronceray, Andree Jacqueline Laure; and0Ronceray, Francoise Monique Mary; heirs). Elevator-cooler apparatus for pulverized materials such as foundry sands. 3,432,940, 3-18-69, Cl. 34-189.
Ronceray,Andree Jacqueline Laure: *See—*
Ronceray, Robert A. M.,3,454,232.
Ronchese, Aldo. Dispenser for quantities of hot water. 3,420,411, 1-7-69, Cl. 222-67.
Ronci, Fernando M. Composite heel and method of manufacture. 3,453,754, 7-8-69, Cl. 36-34.
Ronci, William L., to Bendix Corporation, The. Passive circuit including a thermistor for provid- ing high level voltage variations in response to low level current variations. 3,440,536, 4-22-69, Cl. 324-106.
Ronco, Karl; and Hari, Istvan, to Ciba Limited. Dioxazine dyestuffs having in 6 and 13 position a heterocyclic acylamino group. 3,480,625, 11-25-69, Cl. 260-246.
Ronco, Karl; and Mueller, Willy, to Ciba Limited. Monoazodyestuffs. 3,438,966, 4-15-69, Cl. 260-204.
Ronco, Karl; and Roueche, Armand, to Ciba Limited. Phenylazo-2,3-hydroxynaphthoic acid amides containing diphenylureas. 3,472,834, 10-14-69, Cl. 260-203.
Rondeau, George Edgar: *See—*
Binstead, Hugh Cecil; and Rondeau, George Edgar,3,467,466.
Rondeau, Herbert F., to USM Corporation. Stud attaching. 3,481,634, 12-2-69, Cl. 287-20.2
Rondel Limited: *See—*
Corby, Peter J. S., 3,477,154.
Rondelet, Jacques, to Recherche et Industrie Therapeutiques R.I.T. Tetracycline hydroxy carboxylic acids. 3,428,679, 2-18-69, Cl. 260-559.
Rondelet, Jacques, to Recherche et Industrie Therapeutiques R.I.T. Carboxymethyl derivatives of tetracycline antibiotics. 3,456,007, 7-15-69, Cl. 260-559.
Ronden, Clifford P., to Cupples Container Company. Extrusion die. 3,471,899, 10-14-69, Cl. 18-14.
Ronden, Clifford P., to Cupples Container Company. Method and apparatus for producing polymeric sheet. 3,482,280, 12-9-69, Cl. 18-14.
Ronden, Clifford P.; and Yu, John, to Dow Chemical Company, The. Three stage suspension polymerization process for vinyl aryl monomers. 3,425,966, 2-4-69, Cl. 260-2.5
Ronden, Clifford P.; and Yu, John, to Dow Chemical Company, The, mesne. Self-extinguishing aryl vinyl polymer products containing perchloropentacyclodecane and tris (2,3-dibromopropyl) phosphate. 3,445,404, 5-20-69, Cl. 260-2.5
Ronden, Clifford P.; and Yu, John, to Dow Chemical Company, The. Suspension polymerization process for vinyl aryl monomers. 3,462,380, 8-19-69, Cl. 260-2.5
Rondenet, Eugene L.: *See—*
Tribble, Talmadge B.; and Rondenet, Eugene L.,3,444,218.
Ronel Corporation: *See—*
Lidsky, Julius, 3,479,919.
Roney, Burton W., to Bendix Corporation, The. Bearing overload protection means. 3,460,873, 8-12-69, Cl. 308-35.
Roney, Charles F., to Bee Chemical Company. Method of electrostatically coating an insulating surface. 3,473,946, 10-21-69, Cl. 117-47.
Roney, Robert K.; Rosen, Harold A.; Hudspeth, Thomas; Suyematsu, Herbert T.; and Eick, Meredith K., to Hughes Aircraft Company. Dual mode receiving and transmitting antenna. 3,453,621, 7-1-69, Cl. 343-100.
Ronge, Georg: *See—*
Gasser, Adolf; and Ronge, Georg,3,446,732.
Rongen, Jacobus Johannes: *See—*
Peters, Alphonsus Maria; and Rongen, Jacobus Johannes,3,440,552.
Rongen, Josef: *See—*
Ensslin, Kurt; Heinen, Peter; and Rongen, Josef,3,460,213.
Rongier, Charles P.: *See—*
Valentin, Francois P.; Basso, Yves; and Rongier, Charles P.,3,482,039.
Ronnevig, Carl, to Allmanna Svenska Elektriska Aktiebolaget. Rotating electrical machine with liquid-cooled laminated stator core. 3,447,002, 5-27-69, Cl. 310-54.
Ronning, Richard L. Pull-through hammer mill. 3,429,349, 2-25-69, Cl. 146-107.
Ronson Corporation: *See—*
Cox, Ernest Francis, 3,437,852.
Cox, Ernest Francis, 3,486,003.
Tone, John W.; Simon, Albert E., Jr.; and Taylor, William D., 3,427,674.
Ronson Products Limited: *See—*
Grassbu, Robert Keith, 3,481,842.
Roock, Hans; and Rest, Heinz. Pull handle for bowden wire. 3,486,397, 12-30-69, Cl. 74-501.
Rood, Gerald L., to General Motors Corporation. Fluid control valve assembly. 3,451,651, 6-24-69, Cl. 251-77.

Rood, William E., Jr.: *See—*
Gray, James H., 3,467,991.

Rood, William E., Jr.; McKinley, James E.; and Gray, James H. Air wash cotton cleaner and transportation system. 3,425,097, 2-4-69, Cl. 19-203.

Roode, Melvin V.; and Marlow, James F., to General Motors Corporation. Bearing preform means. 3,421,969, 1-14-69, Cl. 161-148.

Roods, John F., to McGraw-Edison Company. Power planer. 3,443,613, 5-13-69, Cl. 145-4.

Roods, John F.; and Buschman, Jerome A., to McGraw-Edison Company. Combination power tool. 3,484,917, 12-23-69, Cl. 29-27.

Roof, Lewis B., to Phillips Petroleum Company. Device for supplying carrier gas to transport eluted portion of sample and to backflush chromatographic column. 3,444,722, 5-20-69, Cl. 73-23.1

Roof, Lewis B.: *See—*
Burk, Marvin C.; and Roof, Lewis B.,3,468,157.

Rooke, Michael Brian: *See—*
Bryce, Douglas Maxwell; and Rooke, Michael Brian,3,479,428.

Rooker, William A. Tobacco aromatics enriched non-tobacco smokable product and Method of making same. 3,424,171, 1-28-69, Cl. 131-143.

Rooklyn, Janck: *See—*
Icenbice, Phineas J., Jr.; and Rooklyn, Janck,3,454,956.

Rooks, Howard B.: *See—*
Hennessey, Darrell F.; and Rooks, Howard B.,3,430,147.

Roome, Douglas P., to Standard Packaging Corporation. Film-forming apparatus. 3,478,391, 11-18-69, Cl. 18-19.

Roome, Gerard T.: *See—*
Hair, Hugh A.; Roome, Gerard T.; Gerst, Carl W.; Des-Jardins, Edgar E.; and Domick, Edward J.,3,447,143.

Rooney, Clarence S.: *See—*
Sarett, Lewis H.; Rooney, Clarence S.; and Peterson, Louis H.,3,439,019.

Rooney, James F.: *See—*
Tate, Charles W., Sr.; and Rooney, James F.,3,423,959.

Rooney, James J., Jr., to International Business Machines Corporation. Circuit providing phase shift which is variable with frequency. 3,445,756, 5-20-69, Cl. 323-119.

Rooney, John A. P.: *See—*
Canning, Thomas F.; Rooney, John A. P.; and Phillips, Frank L.,3,436,344.

Roos, Borje Mats Ingvar: *See—*
Karl, Heinz Georg; and Roos, Borje Mats Ingvar,3,469,212.

Roos, Charles J. Safety window covering structure. 3,458,954, 8-5-69, Cl. 49-62.

Roos, Ernst: *See—*
Logemann, Heino; Roos, Ernst; and Suling, Carlhans,3,436,364.

Roos, Heinz; and Semle, Hans, to International Standard Electric Corporation. Circuit arrangement for the electronic simulation of a telegraph relay. 3,445,783, 5-20-69, Cl. 331-51.

Roosa, Vernon D. Internal-combustion engine and fuel injection system therefor. 3,450,121, 6-17-69, Cl. 123-140.

Roosa, Vernon D. Fuel injection nozzle and adjustable biasing means therefor. 3,450,352, 6-17-69, Cl. 239-533.

Roosa, Vernon D. Nonleak-off fuel injection nozzle. 3,451,626, 6-24-69, Cl. 239-533.

Roosa, Vernon D. Fuel supply system. 3,477,418, 11-11-69, Cl. 123-140.

Roosa, Vernon D. Fuel injection nozzle. 3,477,648, 11-11-69, Cl. 239-533.

Roosevelt, Julian K. Running lights construction for mounting on top of a mast. 3,431,408, 3-4-69, Cl. 240-7.5

Roosild, Sven A.; Buchanan, Bobby L.; and Dolan, Russell P., Jr., to United States of America, Air Force. Current modulated field effect transistor. 3,430,113, 2-25-69, Cl. 317-235.

Roosild, Sven A.: *See—*
Dolan, Russell P., Jr.; and Roosild, Sven A.,3,457,632.
Dolan, Russell P., Jr.; Buchanan, Bobby L.; and Roosild, Sven A.,3,431,150.

Root, George R., to Root Manufacturing Company, Inc. Cutter suspension unit for riding mowers. 3,483,682, 12-16-69, Cl. 56-25.4

Root, John J., to Molecular Energy Corporation, mesne. Method of producing semi-conductive electronegative element of a battery. 3,450,570, 6-17-69, Cl. 136-120.

Root, Lawrence D.; and Davis, Wilbern F., to Honeywell Inc. Stacking device. 3,442,507, 5-6-69, Cl. 271-87.

Root, Lloyd B. Aquatic device for utilizing wave motion. 3,473,254, 10-21-69, Cl. 46-41.

Root Manufacturing Company, Inc.: *See—*
Root, George R., 3,483,682.

Root, Marvin R., to Sperry Rand Corporation. Method for fabricating memory apparatus. 3,457,634, 7-29-69, Cl. 29-604.

Root, Morris J., to Barr, G., Company, division of Pittway Corporation. Sizing composition. 3,487,039, 12-30-69, Cl. 260-33.4

Root, Walter C.: *See—*
Pigeon, Dale W.; and Root, Walter C.,3,477,046.

Root, Wayne N.: *See—*
Van Tassell, Harry M.; and Root, Wayne N.,3,476,656.

Roote, Jay C.: *See—*
Adamson, Robert G.; Angell, Charles H.; Roote, Jay C.; Hutchison, Joel F.; and Coberley, Daniel A.,3,477,369.

Rootes Motors Limited: *See—*
Turner, William Tom, 3,486,595.

Rooz, William B. Garment hanger construction for cuff-less trousers. 3,460,726, 8-12-69, Cl. 223-95.

Ropak Manufacturing Co.: *See—*
Ross, Hugh; and Parke, Franklin E., 3,425,688.

Ropella, Leonard A.: *See—*
Ashby, Frederick R.; and Ropella, Leonard A.,3,484,994.

Roper Corporation: *See—*
Cope, John M.; and Webster, John V., 3,452,460.
Smith, Hugh Edward, 3,431,792.

Roper Daniel W., to Eaton Yale & Towne, Inc. Differential mechanism. 3,452,619, 7-1-69, Cl. 74-711.

Roper, Daniel W., to Eaton Yale & Towne, Inc. Differential with temperature compensating clutch. 3,430,519, 3-4-69, Cl. 74-711.

Roper, Daniel W., to Eaton Yale & Towne, Inc. Speed responsive clutch. 3,437,186, 4-8-69, Cl. 192-35.

Roper, Daniel W.; Wilkowski, Edward A.; and Hass, David Peter, to Eaton Yale & Towne, Inc. Differential thrust mechanism. 3,448,636, 6-10-69, Cl. 74-711.

Roper, Donald G.: *See—*
Massoll, Stanley R.; and Roper, Donald G.,3,435,200.

Roper, Geo., D., Corporation: *See—*
Tingley, Egbert M., 3,430,023.
Tingley, Egbert M., 3,484,573.
Torrey, Sumner H.; Dubuque, Donald J.; Sloan, Norman R.; and Morris, Robert L., 3,469,568.
Torrey, Sumner H.; Dubuque, Donald J.; Weiss, Johnny C.; and Sloan, Norman R., 3,480,000.
Weiss, John C., 3,422,810.

Roper, Howard L. Seat retaining and positioning means for buckle end portion of a seat belt. 3,427,042, 2-11-69, Cl. 280-150.

Roper, John: *See—*
Powell, Paul R.; and Roper, John,3,420,217.

Roper, Ralph E., to Wallace Expanding Machines, Inc. Method for forming sheet metal corner members. 3,440,711, 4-29-69, Cl. 29-480.

Roper, Ralph E., to Wallace Expanding Machines, Inc. Expander apparatus. 3,443,413, 5-13-69, Cl. 72-399.

Roper, Wilbur F., to Mobil Oil Corporation. Method and apparatus for continuously monitoring properties of thixotropic fluids. 3,473,368, 10-21-69, Cl. 73-55.

Ropp, Donald L.: *See—*
Henry, Frank B.; and Ropp, Donald L.,3,436,850.

Ropp, Richard C., to Westinghouse Electric Corporation. Method of rare-earth metal recovery from orthovanadate compound. 3,420,860, 1-7-69, Cl. 260-429.2

Ropp, Richard C., to Westinghouse Electric Corporation. Method of making phosphor raw-mix materials and phosphors. 3,449,259, 6-10-69, Cl. 252-301.4

Ropp, Richard C., to Westinghouse Electric Corporation. Strontium-barium halophosphate phosphor. 3,470,108, 9-30-69, Cl. 252-301.6

Ropp, Richard C., to Westinghouse Electric Corporation. Method of preparing europium-activated lanthanum vanadate phosphor. 3,485,768, 12-23-69, Cl. 252-301.4

Ropp, Richard C.; and Graff, Eugene A., to Westinghouse Electric Corporation. Efficient preparation of rare-earth metal oxalate. 3,420,861, 1-7-69, Cl. 260-429.2

Ropp, Richard C.; and Gritz, Edward E., to Westinghouse Electric Corporation. Method for preparing europium activated yttrium oxide and gadolinium oxide phosphors. 3,449,258, 6-10-69, Cl. 252-301.4

Ropp, Richard C.: *See—*
Vodoklys, Frank M.; and Ropp, Richard C.,3,430,090.

Rorer, William H., Inc.: *See—*
Martin, Gustav J., 3,457,345.

Rorholt, Bjorn A., to Tele-Data, Inc. Slow data rate telemetering and data logging system having pural alarm means. 3,478,318, 11-11-69, Cl. 340-150.

Rorie, Durwood G., Jr.: *See—*
Cheney, William A.; and Rorie, Durwood G., Jr.,3,421,290.

Ros, Cornelia E.: *See—*
Ros, Mirko R.,3,464,173.

Ros, Erika E.: *See—*
Ros, Mirko R.,3,464,173.

Ros, Franziska J.: *See—*
Ros, Mirko R.,3,464,173.

Ros, Mirko R., deceased0 (by Ros, Erika E.0Ros, Franziska J.0Ros, Cornelia E.; sole heirs). Tensioning apparatus for prestressed concrete constructions. 3,464,173, 9-2-69, Cl. 52-173.

Rosa, Carl: *See—*
Nazaruk, Stanley; Rosa, Carl; and Headrick, Alvin F.,3,427,683.

Rosa, Eugene J., to Shell Oil Company. Fluid flow meter in which laser light scattered by the fluid and by a stationary scattering center is heterodyned. 3,457,419, 7-22-69, Cl. 250-217.
Rosa, John: *See—*
Johnson, Frederick O.; and Rosa, John,3,436,645.
Rosa, John, to Westinghouse Electric Corporation. Voltage regulator system utilizing a center tapped inductor. 3,444,457, 5-13-69, Cl. 323-22.
Schlabach, Leland A.; and Rosa, John,3,469,169.
Rosa, Vincent J.: *See—*
Gauss, Hugo E.; Real, Raymond V.; and Rosa, Vincent J.,3,427,038.
Rosacker, Eugene E.: *See—*
Hart, Clifton W.; and Rosacker, Eugene E.,3,487,299.
Rosaen, Borje O.: *See—*
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,440,802.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,441,137.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar B.,3,441,138.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,442,383.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,465,413.
Rosaen Filter Company, The: *See—*
Rosaen, Nils O., 3,422,791.
Rosaen, Nils Ol, to Parker-Hannifin Corporation, mesne. Pleated filter construction. 3,471,023, 10-7-69, Cl. 210-223.
Rosaen, Nils O., to Rosaen Filter Company, The. Indicating apparatus. 3,422,791, 1-21-69, Cl. 116-70.
Rosaen, Nils O., to Universal Filters Inc., mesne. Backwash means for dual filter elements. 3,425,557, 2-4-69, Cl. 210-108.
Rosaen, Nils O., to Universal Filters, Inc. mesne. Backwash means for dual filter elements. 3,425,558, 2-4-69, Cl. 210-108.
Rosaen, Nils O., to Universal Filters, Inc., mesne. High pressure filter device. 3,438,498, 4-15-69, Cl. 210-90.
Rosaen, Nils O., to Parker-Hannifin Corporation, mesne. Flat filter indicator. 3,442,382, 5-6-69, Cl. 210-90.
Rosaen, Nils O., to Norco Products, Incorporated. Magnetic fluid pressure control. 3,448,751, 6-10-69, Cl. 137-81.5
Rosaen, Nils O., to Parker-Hannifin Corporation, mesne. Fluid filter. 3,468,420, 9-23-69, Cl. 210-90.
Rosaen, Nils O., to Parker-Hannifin Corporation, mesne. Bidirectional filter device. 3,472,380, 10-14-69, Cl. 210-90.
Rosaen, Nils O.; Firth, Robert L.; and Brown, Carl A., to Parker-Hannifin Corporation, mesne. Bayonet filter. 3,486,622, 12-30-69, Cl. 210-90.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar B., to Parker-Hannifin Corporation, mesne. Reservoir filter and indicator. 3,441,138, 4-29-69, Cl. 210-90.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., to Parker-Hannifin Corporation, mesne. Reservoir filter and indicator. 3,440,802, 4-29-69, Cl. 55-199.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., to Parker-Hannifin Corporation, mesne. Filtering device. 3,441,137, 4-29-69, Cl. 210-90.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., to Parker-Hannifin Corporation, mesne. Super charged filter. 3,442,383, 5-6-69, Cl. 210-90.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., to Universal Filters, Inc., mesne. Method of manufacturing pleated filters. 3,465,413, 9-9-69, Cl. 29-428.
Rosaen, Oscar B.: *See—*
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar B.,3,441,138.
Rosaen, Oscar E. Variable capacity mechanism for fluid pumps and motors. 3,456,593, 7-22-69, Cl. 103-120.
Rosaen, Oscar E.: *See—*
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,440,802.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,441,137.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,442,383.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E.,3,465,413.
Rosan, Jose, Sr.; and Weber, Robert D. Self-retained tension nut. 3,461,936, 8-19-69, Cl. 151-41.72
Rosan, Jose, Sr.; and Weber, Robert D. Insert with prism lock pin. 3,472,302, 10-14-69, Cl. 151-23.
Rosansky, Martin G.: *See—*
Jagid, Bruce; and Rosansky, Martin G.,3,468,711.
Rosauer, Peter J.: *See—*
Flaherty, John J.; and Rosauer, Peter J.,3,439,530.
Flaherty, John J.; Clark, John W.; and Rosauer, Peter J.,3,448,606.
Rosborg, Daniel J.: *See—*
Hare, Lloyd E.; and Rosborg, Daniel J.,3,438,476.
Rosca, George E., to Goodyear Tire & Rubber Company, The. Film release and braking roller. 3,446,447, 5-27-69, Cl. 242-55.
Roscher, Gunter; Gunther, Klaus; Probst, Otto; and Scholderer, Jorg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the continuous recovery of vinyl esters and carboxylic acids by azeotropic distillation. 3,438,870, 4-15-69, Cl. 203-60.
Roschin, Vladislav Vasilievich; Muromtsev, Boris Ivanovich; Gusakov, Gennady Nilolaevich; and Maslov, Leonid Ivanovich. Method of electric-arc welding of pipe joints. 3,480,758, 11-25-69, Cl. 219-137.
Roscoe, Howard E.; and Nelson, Edgar L., to FMC Corporation. Roll stand for converting equipment. 3,478,974, 11-18-69, Cl. 242-58.
Roscoe, Howard E.: *See—*
Teske, Ernest H.; and Roscoe, Howard E.,3,458,147.
Roscoe, Lawrence C. J., to Bell Telephone Laboratories, Incorporated. Multifrequency inband telephone signaling systems. 3,428,757, 2-18-69, Cl. 179-84.
Roscoe, Lawrence C. J., to Bell Telephone Laboratories, Incorporated. Compatible multifrequency direct current telephone signal receiver. 3,430,002, 2-25-69, Cl. 179-84.
Roscoe, Lawrence C. J., to Bell Telephone Laboratories, Incorporated. Pulse corrector circuit for single frequency signaling system. 3,484,558, 12-16-69, Cl. 179-16.
Roscoe, Stanley N., to Hughes Aircraft Company. Navigational aid. 3,486,815, 12-30-69, Cl. 353-11.
Rosdahl, Karl-Gustaf Engelbrekt; Engstrom, Carl-Gunnar Daniel; and Herzog, Paul. Method for disinfecting medical instruments and apparatus. 3,481,689, 12-2-69, Cl. 21-58.
Rose, Charles L.: *See—*
Addie, Albert N.; and Rose, Charles L.,3,435,887.
Rose, Cyril Ernest; and Hansard, Michael Eric, to Clam Seals International Company Limited, mesne. Fluid couplings. 3,458,220, 7-29-69, Cl. 285-220.
Rose, Donald. Water conditioner apparatus. 3,476,247, 11-4-69, Cl. 210-95.
Rose, Glenn R., to Programmed & Remote Systems Corporation. Programmer for selection of operations on a remote conveyor. 3,453,983, 7-8-69, Cl. 118-7.
Rose, Harold. Fusible interlining fabric. 3,446,658, 5-27-69, Cl. 117-37.
Rose, Henry J.; and Turbak, Albin F., to Tee-Pak, Inc. Casing for dry sausages. 3,427,169, 2-11-69, Cl. 99-176.
Rose, Henry J.: *See—*
Turbak, Albin F.; and Rose, Henry J.,3,427,168.
Rose, Jack Edward. Sound pick-up device. 3,454,703, 7-8-69, Cl. 84-1.15
Rose, James S.: *See—*
Farrissey, William J., Jr.; Rose, James S.; and Sayigh, Adnan A. R.,3,448,150.
Rose, John: *See—*
Brown, Charles Perrin; and Rose, John,3,448,569.
Rose, Joseph F.: *See—*
Goetz, Raymond J.; Hawkins, Thomas W.; and Rose, Joseph F.,3,420,430.
Rose, Kenneth, to Doulton & Co., Limited. Production of metal castings. 3,473,599, 10-21-69, Cl. 164-41.
Rose, Klaus: *See—*
Kramer, Manfred; Mayer, Siegfried; Reichert, Rudolf; Rose, Klaus; and Zirps, Wilhelm,3,425,593.
Rose Manufacturing Company: *See—*
Ervin, Robert Gilpin, Jr., 3,444,957.
Rose, Melvin J.: *See—*
Levinn, Robert N.; Moyer, Joseph K.; and Rose, Melvin J.,3,451,029.
Rose, Michael Edward; and Rose, Samuel. Driving and clutching mechanism for film reeling apparatus or the like. 3,443,504, 5-13-69, Cl. 95-90.5
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H., to St. Joseph Lead Company. Stabilized non-bubbling dispersion strengthened lead. 3,483,046, 12-9-69, Cl. 148-6.3
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H., to St. Joseph Lead Company. Nonbubbling dispersion strengthened lead. 3,484,305, 12-16-69, Cl. 148-6.3
Rose Patch & Label Company: *See—*
Templeton, John Glenn; and Schuitema, Howard J., 3,459,297.
Rose, Robert K., to General Electric Company. Temperature-insensitive fluid control circuits and flueric devices. 3,465,775, 9-9-69, Cl. 137-81.5
Rose, Ronald E.; and Stambaugh, Donald W., to Arvin industries, Inc. Battery charging control device. 3,453,518, 7-1-69, Cl. 320-5.
Rose, Rudolph J.: *See—*
Vose, Hamilton, III; and Rose, Rudolph J.,3,453,973.
Rose, Samuel: *See—*
Rose, Michael Edward; and Rose, Samuel,3,443,504.
Rose, Selwyn H., to Pennsalt Chemicals Corporation. Inorganic polymers. 3,440,186, 4-22-69, Cl. 260-2.

Rose, Selwyn H.: *See—*
Sicka, Richard W.; Rose, Selwyn H.; and Harkulich, Theodore M.,3,445,361.
Rose, Sheldon M.: *See—*
Terkel, Mike; Rose, Sheldon M.; and Smylie, Fred R.,3,486,534.
Rose, Stanley, to Aylesbury Automation Limited. Bobbin stripper. 3,431,610, 3-11-69, Cl. 28-19.
Rose, Theophylus Foster. Electrical junction boxes for Christmas tree holders. 3,465,090, 9-2-69, Cl. 174-58.
Rose, Thomas P.; and Hollowood, Calvin T., to Burroughs Corporation. Conductive adhesive articles and manufacture. 3,435,127, 3-25-69, Cl. 174-94.
Rose, Trevor James: *See—*
Dickinson, John David; Fowkes, Francis Samuel; and Rose, Trevor James,3,428,576.
Roselius, Charles F.; Pelikan, George A.; and Maggio, Albert C., to Ellcon-National, Inc. Braking apparatus. 3,472,124, 10-14-69, Cl. 91-45.
Roselius, Ronald R.: *See—*
Paterson, Norman J.; and Roselius, Ronald R.,3,464,915.
Rosell, Lester P., to Emco Wheaton, Inc. Separable coupling. 3,429,448, 2-25-69, Cl. 210-445.
Rosell, Lester P., to Emco Wheaton, Inc. Coupler and adapter and seal structure therefor. 3,474,827, 10-28-69, Cl. 137-614.06
Roselman, Gary, to Monash, Albert. Chain cutter and assembly apparatus. 3,425,213, 2-4-69, Cl. 59-11.
Roseman, Joseph Charles, to Harris-Intertype Corporation. Machine and method for transferring an article. 3,459,289, 8-5-69, Cl. 198-21.
Roseman, Richard J. Sewing machine attachment for stitching over wire objects. 3,452,692, 7-1-69, Cl. 112-2.
Rosemount Engineering Company: *See—*
Curtis, Donald J., 3,482,199.
De Leo, Richard V., 3,470,740.
De Leo, Richard V.; and Hagen, Floyd W., 3,482,445.
Frick, Roger, 3,474,608.
Hagen, Floyd W., 3,443,431.
Kleven, Lowell A., 3,461,383.
Lode, Tenny, 3,453,543.
Lode, Tenny D., 3,436,131.
Lode, Tenny D., 3,453,536.
Lode, Tenny D., 3,453,627.
Lode, Tenny D., 3,465,361.
Lode, Tenny D., 3,476,448.
Lode, Tenny D., 3,484,692.
Petersen, Paul S., 3,434,182.
Werner, Frank D.; and Sathyakumar, Rajabushanam, 3,433,068.
Werner, Frank D., 3,471,758.
Werner, Frank D., 3,482,449.
Rosemount Engineering Company Limited: *See—*
Johnston, James Stewart, 3,430,257.
Johnston, James Stewart, 3,441,845.
Johnston, James Stewart, 3,465,586.
Sargeant, Archibald, 3,429,069.
Sargeant, Archibald, 3,471,967.
Rosen, Charles A., to Stanford Research Institute. Magnetic analog multiplication element. 3,458,693, 7-29-69, Cl. 235-194.
Rosen, Charles A., to Stanford Research Institute. Magnetic core matrix multiplier for obtaining the dot product of a plurality of vectors. 3,470,369, 9-30-69, Cl. 235-194.
Rosen, Charles, to Microcom Corporation. Single transistor oscillator-modulator-multiplier circuit. 3,464,031, 8-26-69, Cl. 332-26.
Rosen, Harold A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,437,935.
Roney, Robert K.; Rosen, Harold A.; Hudspeth, Thomas; Suyematsu, Herbert T.; and Eick, Meredith K.,3,453,621.
Rosen, Harvey, to Kaye Thermometer Corporation. Method and apparatus for making a contraction in the bore of a glass clinical thermometer. 3,472,638, 10-14-69, Cl. 65-29.
Rosen, Hyman. Prosthetic corneal fabrication with heating and cooling means to facilitate attachment to corneal tissue. 3,454,966, 7-15-69, Cl. 3-13.
Rosen, Hyman. Contact lens with flexible central portion. 3,468,602, 9-23-69, Cl. 351-160.
Rosen, Hyman, 25% to Mencher, Alexander. Eye applicator. 3,485,244, 12-23-69, Cl. 128-254.
Rosen, Jacob J., to Dublon, Incorporated. Making foamed articles and articles produced thereby. 3,432,581, 3-11-69, Cl. 264-45.
Rosen, Jacob J., to Dublon, Incorporated. Method of facilitating flash removal from foamed articles and articles produced thereby. 3,456,045, 7-15-69, Cl. 264-45.
Rosen, Jacob J. Method for making foamed articles without undesirable seams. 3,456,046, 7-15-69, Cl. 264-45.
Rosen, John Emanuel: *See—*
Kuenstle, Joseph Franz; and Rosen, John Emanuel,3,424,566.
Rosen, Leon D. Music device. 3,476,004, 11-4-69, Cl. 84-97.
Rosen, Louis W. Tea bag disposers. 3,421,431, 1-14-69, Cl. 99-289.
Rosen, Louis W. Tea bag disposers. 3,429,254, 2-25-69, Cl. 99-290.
Rosen, Melville S. Motion transmitting mechanism. 3,472,085, 10-14-69, Cl. 74-89.2
Rosen, Robert: *See—*
Ryan, John W.; Chang, Richard Shih-Teng; and Rosen, Robert,3,420,530.
Ryan, John W.; Chang, Richard Shin-Teng; and Rosen, Robert,3,464,152.
Rosen, Samuel R.: *See—*
Nord, Eric T.; Rosen, Samuel R.; and Liptak, Richard M.,3,429,482.
Rosen, William E.: *See—*
Berke, Philip A.; and Rosen, William E.,3,471,537.
Rosen, William E.; and Drew, John W., to Hoffman Laboratories, Inc., and Cambridge Research Inc. Process for preparing isoxazole compounds. 3,468,900, 9-23-69, Cl. 260-307.
Rosen, William J.: *See—*
Norton, Robert L.; and Rosen, William J.,3,443,500.
Rosenbaum, Bernard J.; Oberschmidt, Mike; and Fitzgerald, John J., to United States of America, National Aeronautics and Space Administration. Flow test device. 3,425,276, 2-4-69, Cl. 73-198.
Rosenbaum, Fred J., to McDonnell Douglas Corporation. Dielectric cavity resonator. 3,448,379, 6-3-69, Cl. 324-58.
Rosenbaum, Shlomo, to Dow Chemical Company, The. Separatory process utilizing a permeable polyamide membrane having poly(oxyethylene) grafts. 3,472,766, 10-14-69, Cl. 210-22.
Rosenberg, Arthur: *See—*
Handman, Stanley L.; and Rosenberg, Arthur,3,465,718.
Rosenberg, David J.: *See—*
Krakauer, Sidney; Musikant, Solomon; and Rosenberg, David J.,3,429,681.
Pall, David B.; Belfield, Robert Earle; Rosenberg, David J.; and Vogel, Arthur C.,3,446,684.
Rosenberg, David, to Pall Corporation. Syringe pump. 3,447,479, 6-3-69, Cl. 103-153.
Pall, David B.; and Rosenberg, David,3,472,390.
Rosenberg, Edgar A.: *See—*
Schainholz, Herbert; and Katz, Peter, 3,460,154.
Rosenberg, Edgar N. Electrolytic timing device and release actuator. 3,469,045, 9-23-69, Cl. 200-61.05
Rosenberg, Harold James. Microscope slide. 3,481,659, 12-2-69, Cl. 350-94.
Rosenberg, Harold J.; Sorrells, John R.; and Trent, Joseph E., to Bunn, B. H., Company. Mail sorting machine. 3,420,368, 1-7-69, Cl. 209-73.
Rosenberg, Harold, to United States of America, Air Force. Preparation of lithioferrocenes. 3,422,129, 1-14-69, Cl. 260-439.
Rosenberg, Harold, to United States of America, Air Force. (Perfluoroaryl)ferrocenes and the synthesis thereof. 3,422,130, 1-14-69, Cl. 260-439.
Rosenberg, Harold, to United States of America, Air Force. Diferrocenyl derivatives of group IV-A elements. 3,426,053, 2-4-69, Cl. 260-429.
Rosenberg, Harold, to United States of America, Air Force. Perfluoroalkyl and perfluoroacyl ferrocenes. 3,432,533, 3-11-69, Cl. 260-439.
Rosenberg, Harry W.: *See—*
Cox, Howard D.; and Rosenberg, Harry W.,3,457,068.
Rosenberg, Merton I.; and Kimberley, John A., to American Bosch Arma Corporation. Rotary electromagnetic actuator having linear response characteristics. 3,435,395, 3-25-69, Cl. 335-276.
Rosenberg, Michael A., to San Fernando Electric Mfg., Co. Hermetically sealed capacitor. 3,458,783, 7-29-69, Cl. 317-242.
Rosenberg, Norman W.: *See—*
O'Connor, Thomas L.; Fredrickson, John B.; and Rosenberg, Norman W.,3,475,143.
Kamins, Seymour; and Rosenberg, Norman,3,469,679.
Kamins, Seymour; and Rosenberg, Norman,3,477,634.
Kamins, Seymour; and Rosenberg, Norman,3,486,683.
Rosenberg, Per Jan Ake, to Rosengrens Plat AB. Chimneys. 3,464,174, 9-2-69, Cl. 52-218.
Rosenberg, Richard: *See—*
Antonsen, Knud; Rosenberg, Richard; and Wiard, Hadley K.,3,483,380.
Rosenberg, Robert, to Bell Telephone Laboratories, Incorporated. Electro optic light deflection apparatus. 3,437,400, 4-8-69, Cl. 350-150.
Rosenberg, Roger L.; Watson, Donald W.; and Zielinski, Robert D., to Clare, C. P., and Company. Matrix board apparatus. 3,437,740, 4-8-69, Cl. 174-68.5
Rosenberg, Sherman; Smith, Harold W.; and Hodge, Walter D., to Beloved Toys, Inc., mesne. Method and apparatus for reconditioning pile fibers. 3,445,902, 5-27-69, Cl. 26-2.
Rosenberg, William; Crafton, Charles J.; Johnson, Frederick Douglas; and Hohman, Ross W., to Maryland Cup Corporation. Method for heat sealing. 3,439,590, 4-22-69, Cl. 93-55.1
Rosenberger, Harold E.: *See—*
Benford, James R.; and Rosenberger, Harold E.,3,471,218.
Rosenberger, Harold E., to Bausch & Lomb, Incorporated. Metallurgical optical semi-objective of unity magnification. 3,428,390, 2-18-69, Cl. 350-177.

Rosenberger, Harold E., to Bausch & Lomb Incorporated. Multi-powered micro-objective group having common aberration correcting means. 3,481,665, 12-2-69, Cl. 350-183.
Rosenberger, Harold E.; and Seidenberg, Richard L., to Bausch & Lomb Incorporated. Zoom type optical system for microscope. 3,456,998, 7-22-69, Cl. 350-40.
Rosenberger, Harold E.; and Tchejeyan, Sarkis K., to Bausch & Lomb, Incorporated. Optical system for inverted microscope. 3,437,395, 4-8-69, Cl. 350-9.
Nothnagle, Paul E.; and Rosenberger, Harold E.,3,421,807.
Rosenberger, Paul C.: *See*—
Beals, Duane E.; Berchtold, Donald R.; O'Brien, James W.; Rosenberger, Paul C.; Sieving, Alfred W.; and Smith, Kerwyn B.,3,448,816.
Rosenberger, Paul C., to Caterpillar Tractor Company. Hydraulic and spring clutch release booster. 3,443,673, 5-13-69, Cl. 192-91.
Rosenberry, George M., Jr.: *See*—
Hemmenway, Stuart F.; and Rosenberry, George M., Jr.,3,436,633.
Rosenberry, W. K.: *See*—
Tarczy-Hornoch, Zoltan, 3,423,676.
Tarczy-Hornoch, Zoltan, 3,437,940.
Tarczy-Hornoch, Zoltan, 3,444,462.
Tarczy, Hornoch, Zoltan, 3,450,991.
Rosenblad, Axel E., to Rosenblad Corporation. Recompression evaporator system and method. 3,475,281, 10-28-69, Cl. 203-26.
Rosenblad Corporation: *See*—
Rosenblad, Axel E., 3,475,281.
Rosenblatt, David H.; and Davis, George T. Catalyzed oxidative conversion of amine methyl groups to amine formyl groups. 3,483,210, 12-9-69, Cl. 260-294.7
Rosenblatt, Herbert; Mariani, Thomas L.; and Arvidson, Philip R., to Allied Chemical Corporation. Plastic covered objects and method for producing same. 3,483,965, 12-16-69, Cl. 206-46.
Rosenblatt, Melvin H. Door reinforcing assembly for vertically operating doors. 3,424,223, 1-28-69, Cl. 160-209.
Rosenblatt, William: *See*—
Osipow, Lloyd I.; and Rosenblatt, William,3,480,616.
Rosenblum, Louis: *See*—
Graab, Judson W.; Rosenblum, Louis; Maple, William E.; Dupraw, William A.; and Gahn, Randall F.,3,472,625.
Rosenblum, Robert A., to Irvin Industries Inc. Industrial safety harness. 3,424,134, 1-28-69, Cl. 119-96.
Rosenblum, Robert A., to Irving Industries, Inc. Industrial safety belt and harness. 3,448,826, 6-10-69, Cl. 182-3.
Rosenbrock, Earl H.; and Doedens, James D., to Dow Chemical Company, The. Hydroxymethyl diphenyl oxide-modified polyester resins. 3,444,130, 5-13-69, Cl. 260-47.
Rosenbrock, Earl H.; and Doedens, James D., to Dow Chemical Company, The. Hydroxymethyl diphenyl oxide-modified polyester resins. 3,444,131, 5-13-69, Cl. 260-47.
Rosenbrook, William, Jr.; and Sinclair, Arthur Charles, to Abbott Laboratories. Process for making 1-hydroxy-6- alkoxyphenazine-5,10-dioxides. 3,432,505, 3-11-69, Cl. 260-267.
Rosenburg, Charles W., Jr., to Burt, F. H., Company, Inc. Tuck style frame-view display carton. 3,424,299, 1-28-69, Cl. 206-45.14
Rosenburgh, Norman J., to Eastman Kodak Company. Apparatus for and method of feeding strip material. 3,467,340, 9-16-69, Cl. 242-197.
Rosenburgh, Norman J.: *See*—
Morse, John E.; and Rosenburgh, Norman J.,3,474,696.
Rosendahl, Friedrich Karl; Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Spandex fibers based on segmented polyurethanes chain extended with two different chain extenders. 3,475,377, 10-28-69, Cl. 260-75.
Rosendahl, Friedrich Karl: *See*—
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich Karl,3,454,671.
Oertel, Harald; Rinke, Heinrich; Rosendahl, Friedrich Karl; and Kleiner, Helmut,3,485,778.
Rosendahl, Friedrich-Karl: *See*—
Oertel, Harald; Rinke, Heinrich; and Rosendahl, Friedrich-Karl,3,461,101.
Oertel, Harald; Rinke, Heinrich; Moosmuller, Fritz; and Rosendahl, Friedrich-Karl,3,461,102.
Oertel, Harald; Rinke, Heinrich; Thoma, Wilhelm; and Rosendahl, Friedrich-Karl,3,461,106.
Rosendale, John W., to LTV Aerospace Corporation. Vehicle suspension. 3,429,566, 2-25-69, Cl. 267-36.
Rosendall, Henry J.; Hughes, Martin Robert; and Yonkers, Robert A., to Bissell Inc. Liquid applicator for a surface. 3,484,171, 12-16-69, Cl. 401-206.
Rosener, Harvey J.: *See*—
Aylikci, Veli; and Rosener, Harvey J.,3,466,518.
Rosener, Harvey J., to Bunker-Ramo Corporation, The, mesne. Pulse train modulator for numerical control systems. 3,422,373, 1-14-69, Cl. 332-9.
Rosener, Harvey J., to Bunker-Ramo Corporation, The, mesne. Phase modulator for numerical control systems. 3,422,374, 1-14-69, Cl. 332-9.
Rosenfeld, Jack L.: *See*—
Lehman, Meir M.; and Rosenfeld, Jack L.,3,440,619.
Rosenfeld, Myer, to United States of America, Army. Solvent degreasing, self-emulsifying cleaning composition. 3,431,209, 3-4-69, Cl. 252-118.
Rosenfeld, Peter E.: *See*—
Haynie, Gerald D.; and Rosenfeld, Peter E.,3,428,829.
Rosenfeld, Samuel: *See*—
Bickham, Euland M.; and Rosenfeld, Samuel,3,475,880.
Rosenfeld, Seymour; Schwab, Ronald W.; and Haucke, Paul A., to Buchanan Electric Products Corporation. Adjustable crimping tool. 3,459,029, 8-5-69, Cl. 72-402.
Rosengarten, Philip D.: *See*—
Latter, Charles F., 3,433,434.
Rosengren, Eric. Jointing and sealing means. 3,432,185, 3-11-69, Cl. 285-39.
Rosengren, Herbert: *See*—
Felty, Paul John, Jr.; and Rosengren, Herbert,3,443,683.
Rosengren, Herbert. Safety razor apparatus. 3,481,034, 12-2-69, Cl. 30-40.
Rosengren, Kjell: *See*—
Sunner, Stig; and Rosengren, Kjell,3,431,772.
Rosengrens Plat AB: *See*—
Rosenberg, Per Jan Ake, 3,464,174.
Rosenkranz, Dieter; Tiedtke, Alfred; and Inden, Horst, to Koecke Plutte & Co. Thread-guide assembly for bobbin-winding machines. 3,442,460, 5-6-69, Cl. 242-26.5
Rosenkranz, George: *See*—
Ringold, Howard J.; and Rosenkranz, George,3,445,462.
Ringold, Howard J.; and Rosenkranz, George,3,445,490.
Ringold, Howard J.; and Rosenkranz, George,3,452,057.
Ringold, Howard J.; Bowers, Albert; Rosenkranz, George; and Mancera, Octavio,3,438,978.
Rosenquist, Kurt E., to Louverdrape, Inc. Folding panel or door. 3,486,549, 12-30-69, Cl. 160-183.
Rosenstein, Abraham J.: *See*—
Rosenstein, Nathan; and Rosenstein, Abraham J.,3,429,018.
Rosenstein, Jerry M., to American Greetings Corporation. Apparatus and method for applying objects to sheet members. 3,457,131, 7-22-69, Cl. 156-295.
Rosenstein, Ludwig; and Gorin, Manuel H. Water purification process using a liquid hydrocarbon as a heat transfer medium. 3,446,711, 5-27-69, Cl. 203-10.
Rosenstein, Mitchell M. Stop motion for looms. 3,459,241, 8-5-69, Cl. 139-371.
Rosenstein, Nathan; and Rosenstein, Abraham J., to Spunize Company of America, Inc. Method of converting waste filamentary material into staple fiber. 3,429,018, 2-25-69, Cl. 28-72.
Rosenstock, Paul D.: *See*—
Palopoli, Frank P.; Micucci, Dominic Donald; and Rosenstock, Paul D.,3,440,274.
Rosensweig, Alan: *See*—
Tashlick, Irving; and Rosensweig, Alan,3,437,602.
Rosensweig, Ronald E., to Avco Corporation. Material separation using ferromagnetic liquid techniques. 3,483,969, 12-16-69, Cl. 209-1.
Rosenthal, David Walter: *See*—
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter,3,422,134.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter,3,483,191.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter,3,483,225.
Rosenthal, David Walter; and Fried, Josef, to Squibb, E. R., & Sons, Inc., mesne. A-nor steroids. 3,484,476, 12-16-69, Cl. 260-468.
Rosenthal, Donald S.: *See*—
White, Edward S.; Krueger, Clement C.; and Rosenthal, Donald S.,3,460,146.
Rosenthal, Henry: *See*—
Mastrosimone, Michael; and Rosenthal, Henry,3,437,030.
Rosenthal, Isadore, to Rohm & Haas Company. Process for treating figure control garments. 3,428,047, 2-18-69, Cl. 128-580.
Rosenthal, Milton L.: *See*—
Ricardi, Leon J.; and Rosenthal, Milton L.,3,478,362.
Rosenthal, Robert W.: *See*—
Hurley, Daniel J.; Kresge, Alfred N.; Rosenthal, Robert W.; and Williamson, Roger C.,3,437,573.
Rosenthal, Rudolph: *See*—
Bonetti, Giovanni A.; and Rosenthal, Rudolph,3,480,563.
Rosenthal, Rudolph; and Bonetti, Giovanni A., to Atlantic Richfield Company. Stabilization of organic hydroperoxides. 3,445,523, 5-20-69, Cl. 260-610.
Rosenvold, Leo. Ball game device. 3,438,632, 4-15-69, Cl. 273-118.
Rosenwald, Robert H., to Universal Oil Products Company. Reaction product of polyhalopolyhydro- polycyclicdicarboxylic acids, anhydrides or esters thereof with N,N-dicycloalkyl-alkanolamine. 3,426,062, 2-4-69, Cl. 260-468.
Rosenwald, Robert H., to Universal Oil Products Company. Stabilization of hydrocarbon oils and novel additive therefor. 3,457,053, 7-22-69, Cl. 44-72.

Rosenwald, Robert H., to Universal Oil Products Company. Antiozonant mixture containing a phenylenediamine and a N-alkylaminophenol or a N-alkyl- alkoxyaniline. 3,466,248, 9-9-69, Cl. 252-403.
Rosenwald, Robert H.; and Faust, Wayne J., to Universal Oil Products Company. Synergistic anti-icing composition. 3,436,195, 4-1-69, Cl. 44-72.
Rosenwald, Robert H.; Stedman, Russell F.; and Hughes, James C., to Universal Oil Products Company. Synergistic additive mixture. 3,425,815, 2-4-69, Cl. 44-72.
Rosenzweig, Ronald, to Radio Corporation of America. High frequency transistor structure with two- conductivity emitters. 3,427,511, 2-11-69, Cl. 317-235.
Rosenzweig, Ronald, to Radio Corporation of America. Semiconductor devices and methods of making them. 3,432,920, 3-18-69, Cl. 29-578.
Rosetti, Larry B.: *See—*
Davis, Bernard J.; and Rosetti, Larry B.,3,431,310.
Rosewicz, Horst: *See—*
Fecher, Friedrich; Schoenmann, Jakob; and Rosewicz, Horst,3,461,017.
Rosfelder, Andre M., to United States of America, Navy, mesne. Buoyant coring apparatus. 3,434,551, 3-25-69, Cl. 175-6.
Rosfelder, Andre M., to United States of America, Navy, mesne. Hydrostatic energy accumulator. 3,436,914, 4-8-69, Cl. 60-51.
Rosfelder, Andre M., to United States of America, Navy, mesne. Fastening apparatus for circular container. 3,473,688, 10-21-69, Cl. 220-5.
Rosfor Mills Corporation: *See—*
King, Lawrence, 3,454,449.
Rosh, Donald M.: *See—*
Kolodney, Morris; Minushkin, Bertram; and Rosh, Donald M.,3,481,855.
Roshon, David, Jr.; and Young, Thomas, to International Business Machines Corporation. Selective piercing and machining of sheet material. 3,435,186, 3-25-69, Cl. 219-121.
Roshon, John R.; and Green, Charles E., to United States of America, Navy. Pressure vessel for calibrating sonar transducers. 3,466,924, 9-16-69, Cl. 73-1.
Rosica, Gabriel A.; and Daigle, Louis L., to United Aircraft Corporation. Apparatus for eliminating cable effects from capacitive transducers. 3,486,108, 12-23-69, Cl. 324-61.
Rosin, Nathaniel L., to Garrett Corporation, The. Energy absorbing no-back drive mechanism. 3,448,840, 6-10-69, Cl. 192-8.
Rosin, Seymour: *See—*
Dolin, Stanley A.; and Rosin, Seymour,3,436,964.
Rosin, Seymour, to Bell Aerospace Corporation. Optical scanning system. 3,442,575, 5-6-69, Cl. 350-202.
Rosin, Seymour; Gelles, Rubin; and Eichenthal, Judah, to United States of America, National Aeronautics and Space Administration. Wide angle long eye-relief eyepiece. 3,472,577, 10-14-69, Cl. 350-189.
Rosin, Seymour; and Kaestner, Paul T., to Bell Aerospace Corporation. Optical system for visual flight simulation. 3,459,465, 8-5-69, Cl. 350-49.
Rosinger, Sigurd: *See—*
Beermann, Claus; Ramloch, Herbert; and Rosinger, Sigurd,3,481,849.
Rosinger, Sigurd, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing sulfonic acids. 3,457,155, 7-22-69, Cl. 204-162.
Rosinski, Edward J.: *See—*
Kerr, George T.; Plank, Charles J.; and Rosinski, Edward J.,3,442,795.
Plank, Charles J.; and Rosinski, Edward J.,3,431,218.
Plank, Charles J.; and Rosinski, Edward J.,3,436,357.
Plank, Charles J.; and Rosinski, Edward J.,3,459,501.
Plank, Charles J.; and Rosinski, Edward J.,3,459,679.
Plank, Charles J.; and Rosinski, Edward J.,3,459,680.
Plank, Charles J.; and Rosinski, Edward J.,3,462,377.
Roskopf, Donald L. Portable boat dock fenders. 3,449,917, 6-17-69, Cl. 61-48.
Roskos, Thomas George; and Green, Bruce J., to Smith, A. O., Corporation, mesne. Method of making glass reinforced resin articles. 3,429,760, 2-25-69, Cl. 156-167.
Rosler, Geert: *See—*
Gade, Gerhard; Rische, Uwe Wolfgang; and Rosler, Geert,3,475,577.
Rosman, Irwin E. Fastener unit with forming die. 3,426,641, 2-11-69, Cl. 85-37.
Rosmanith, Carl W.: *See—*
Siegleman, Abe; Lencioni, Cecil C., Jr.; and Rosmanith, Carl W.,3,483,410.
Rosner, Leonard A. Bifurcated hosiery with suspension means. 3,466,667, 9-16-69, Cl. 2-240.
Rosner, Manfred, to Aktiengesellschaft Brown, Boveri & Cie. Method for load regulation of magnetohydrodynamic (MHD) power plants. 3,459,975, 8-5-69, Cl. 310-11.
Rosner, Michael W.; Boileau, Louis D.; and Greipel, Frank J. Ice channel cutter. 3,468,277, 9-23-69, Cl. 114-42.
Rosner, Ortwin; Schlegel, Franz; and Sebestyen, Nikolaus, to Optische Werke G. Rodenstock. Image flattening optical system for electronic image converting tube. 3,429,997, 2-25-69, Cl. 178-7.86
Rosnick, Albert L.: *See—*
Philippi, George J.; and Rosnick, Albert L.,3,434,907.
Ross & Rowe, Inc.: *See—*
Hilty, Walden K., 3,480,544.
Ross, Adma Schneller,: *See—*
Martell, Michael Joseph, Jr.; and Ross, Adma Schneller,,3,442,943.
Ross, Albert. Handlebar assemblies for bicycles. 3,477,741, 11-11-69, Cl. 280-279.
Ross and Baruzzini, Inc.: *See—*
Ross, Donald K., 3,424,960.
Ross, Bernard A. Pressure-sensitive electrical control device. 3,463,990, 8-26-69, Cl. 318-335.
Ross, Bernard Francis John. Folding dustpan. 3,449,786, 6-17-69, Cl. 15-257.7
Ross, Bernd, to Globe-Union Inc., mesne. Semi-conductor device having improved resistance to radiation damage. 3,462,311, 8-19-69, Cl. 136-89.
Ross, Charles A., to Kustom Electronics, Inc. Rotary sound source with optically enhanced vibrato. 3,478,837, 11-18-69, Cl. 181-31.
Ross, Charles W. Shield with magnetic connecting ring. 3,449,965, 6-17-69, Cl. 74-18.1
Ross, Charles W., to Leeds & Northrup Company. Error adaptive control system. 3,454,749, 7-8-69, Cl. 235-151.1
Ross, Charles W., to Leeds & Northrup Company. Method and apparatus for maximizing the output of a rotary kiln. 3,483,363, 12-9-69, Cl. 235-151.1
Ross, D. L.: *See—*
Ely, Robert G., 3,456,810.
Ross, Daniel L., to RCA Corporation. Luminescent material and laser apparatus utilizing said material. 3,451,009, 6-17-69, Cl. 331-94.5
Ross, David S., to Hydro-Clear Corporation. Apparatus and method of filtering solids from a liquid effluent. 3,459,302, 8-5-69, Cl. 210-80.
Ross, Donald A., to I.W.S. Nominee Company Limited. Textile crimping. 3,462,812, 8-26-69, Cl. 28-1.
Ross, Donald E.: *See—*
Bresin, Sheldon O.; and Ross, Donald E.,3,460,563.
Ross, Donald H.: *See—*
McCard, Henry W.; and Ross, Donald H.,3,420,983.
Ross, Donald J. Medicament container cap. 3,433,378, 3-18-69, Cl. 215-6.
Ross, Donald K., to Ross and Baruzzini, Inc. Pendulum drive apparatus. 3,424,960, 1-28-69, Cl. 318-128.
Ross, Donald R., Jr., to U-S Electric Manufacturing Company. Trolley conductor guard. 3,439,131, 4-15-69, Cl. 191-25.
Ross, Donald S., 1/2 to University of Strathclyde. Femoral pins. 3,459,180, 8-5-69, Cl. 128-92.
Ross, Edgar A., to Southern Weaving Company. Resilient foldable woven electrical cable and method. 3,476,870, 11-4-69, Cl. 174-69.
Ross, Edgar A.; and Rask, Stanley, to Southern Weaving Company. Woven circuit device. 3,479,565, 11-18-69, Cl. 317-101.
Ross, Edgar A.: *See—*
Rask, Stanley; Ross, Edgar A.; and Tatum, Odes D., Jr.,3,447,120.
Ross, Edward E.; and Cunningham, Jack, to California Packing Corporation. Corn cutting machine. 3,455,307, 7-15-69, Cl. 130-9.
Ross, Edward F.: *See—*
Hall, Warren S.; and Ross, Edward F.,3,440,304.
Ross, Eugene D., to Ross, Eugene, Laboratories, Inc. Blood collection set. 3,467,095, 9-16-69, Cl. 128-214.2
Ross, Eugene, Laboratories, Inc.: *See—*
Ross, Eugene D., 3,467,095.
Ross, Eugene, Laboratories, Inc.: *See—*
Ross, Eugene D., 3,467,095.
Ross, Francis J., to Du Pont de Nemours, E. I., and Company. Process for safely reacting active metals. 3,459,493, 8-5-69, Cl. 23-1.
Ross, Frank E., to Maytag Company, The. Control for waste disposer apparatus. 3,430,871, 3-4-69, Cl. 241-32.5
Ross, Frank E.: *See—*
Jones, Gerald W.; and Ross, Frank E.,3,424,920.
Ross, George H.: *See—*
Anderson, John E.; Parish, Clyde E.; and Ross, George H.,3,445,497.
Ross, George P., to National Steel Corporation. Method and apparatus for controlling coating metal temperature in a hot-dip coating bath. 3,479,210, 11-18-69, Cl. 117-114.
Ross, Gilbert H.: *See—*
Croucher, William C.; Estep, Willis F.; and Ross, Gilbert H.,3,442,587.
Ross, Henry S.; and Wolverton, Marcine P. Target having means for opening the reeds of a switch. 3,430,959, 3-4-69, Cl. 273-127.
Ross, Hugh; and Parke, Franklin E., to Ropak Manufacturing Co. Magnetic conveyor. 3,425,688, 2-4-69, Cl. 271-75.
Ross, Ian M.: *See—*
Clark, James E.; and Ross, Ian M.,3,465,943.

Ross, J. Richard: *See—*
George, D'Arcy R.; Riley, James M.; and Ross, J. Richard,3,429,657.
Ross, James A., to L.T.V. Ling Altec, Inc., mesne. Self-regulated rapid response phase-controlled rectifier. 3,424,970, 1-28-69, Cl. 321-5.
Ross, James A.; and Bogart, Theodore F., Jr., to LTV Ling Altec, Inc. Controlled deceleration system for vibration apparatus. 3,463,984, 8-26-69, Cl. 318-127.
Ross, James W., to Corning Glass Works. Organic liquid ion-exchanger electrode and method of using same. 3,429,785, 2-25-69, Cl. 204-1.
Ross, James W., to Orion Research, Inc. Organic liquid ion-exchanger electrode. 3,438,886, 4-15-69, Cl. 204-195.
Ross, James W., to Corning Glass Works. Electrode with organic liquid ion-exchanger retained by membrane. 3,445,365, 5-20-69, Cl. 204-195.
Ross, James W., to Orion Research Inc. Anion sensitive electrode. 3,483,112, 12-9-69, Cl. 204-195.
Ross, John D., to General Motors Corporation. Variable height trailer unit. 3,429,585, 2-25-69, Cl. 280-423.
Ross, John J. Combination shrimp trawl and rolling rig. 3,458,947, 8-5-69, Cl. 43-9.
Ross, John M., Jr.; and Levesque, Paul E., to FMC Corporation. Non-foaming wetting agents. 3,449,261, 6-10-69, Cl. 252-351.
Ross, John M., Jr.; and Lima, Daniel A., to FMC Corporation. Method of producing fabrics for crease-retaining garments. 3,450,484, 6-17-69, Cl. 8-116.3
Ross, John W., to Texas Instruments, Incorporated. Gas-fired oven. 3,476,101, 11-4-69, Cl. 126-19.
Ross, Joseph, to PPG Industries, Inc. Method for treating raw pigmentary titanium dioxide. 3,442,678, 5-6-69, Cl. 106-300.
Ross, Joseph: *See—*
Saferstein, Albert; and Ross, Joseph,3,440,999.
Ross, Julian P., Jr.: *See—*
Smith, Benjamin T.; Ross, Julian P., Jr.; and Trexler, Joseph E., Jr.,3,429,553.
Ross, Karl F. Modulation and demodulation of high-frequency radiation. 3,428,810, 2-18-69, Cl. 250-199.
Ross, Keith, to Davy and United Engineering Company Limited. Forging press. 3,468,155, 9-23-69, Cl. 72-456.
Ross, Keith, to Davy and United Engineering Company Limited. Forging. 3,473,364, 10-21-69, Cl. 72-421.
Ross, Louis A.: *See—*
Kohler, John J.; and Ross, Louis A.,3,420,867.
Ross, Margaret R.: *See—*
West, Carl J., Jr., 3,475,878.
Ross, Milburn M. Rotary power means. 3,464,362, 9-2-69, Cl. 103-139.
Ross, Milford N.; Streb, Alan J.; and Young, Charles N., to Martin-Marietta Corporation. Burner unit and thermoelectric generator incorporating same. 3,423,249, 1-21-69, Cl. 136-212.
Ross, Milton H. Printed circuit soldering aid. 3,452,976, 7-1-69, Cl. 269-91.
Ross, Nicholas V.: *See—*
Tama, Mario; and Ross, Nicholas V.,3,485,983.
Ross, Nicholas V., to Ajax Magnethermic Corporation. Induction heating. 3,424,886, 1-28-69, Cl. 219-10.79
Ross, Nicholas V., to Ajax Magnethermic Corporation. Apparatus for induction heating of slabs. 3,485,986, 12-23-69, Cl. 219-10.69
Ross, Nicholas V.; and Logan, John A., to Ajax Magnethermic Corporation. Apparatus for induction heating of slabs. 3,485,985, 12-23-69, Cl. 219-10.67
Ross Operating Valve Company: *See—*
Abbott, Daniel B.; and Huntington, Andrew B., 3,473,781.
Weber, Alfred R., 3,459,224.
Ross, Raymond W.: *See—*
Polster, Norman E.; Ross, Raymond W.; and Williams, Albert J., Jr.,3,460,155.
Ross, Richard C.: *See—*
Kwan, Fred K. C.; Ross, Richard C.; and Svoboda, Glenn R.,3,432,458.
Ross, Richard F.; and Yan, Calvin K. K., to UMC Industries, Inc. Dispensing apparatus. 3,446,399, 5-27-69, Cl. 222-129.1
Ross, Richard J.; and Fohlen, George M., to Kaiser Aluminum & Chemical Corporation. Process for producing methylenediamilines. 3,478,099, 11-11-69, Cl. 260-570.
Ross, Robert E., to Libbey-Owens-Ford Glass Company. Glass bending furnace. 3,431,095, 3-4-69, Cl. 65-274.
Ross, Robert H.; Roth, Willard; Larko, Robert; and Swartzfager, Walter, to Sunbeam Equipment Corporation. Aluminum annealing furnace. 3,447,790, 6-3-69, Cl. 263-28.
Ross, Robert R.; and Woodard, Kenneth B., to Bell Telephone Laboratories, Incorporated. Blast actuated valve. 3,422,743, 1-21-69, Cl. 98-119.
Ross, Robert S.: *See—*
Flickinger, Maynard L.; and Ross, Robert S.,3,432,122.
Ross, Robert V. Chain-making apparatus. 3,469,284, 9-30-69, Cl. 18-42.
Ross, Roger J., to Singer Company, The. Thread wiper and thread end holder for sewing machines. 3,448,708, 6-10-69, Cl. 112-253.
Ross, Roger J., to Singer Company, The. Non-spill bobbin case for sewing machines. 3,486,473, 12-30-69, Cl. 112-229.
Ross, Roland R.: *See—*
Shay, Joseph P.; and Ross, Roland R.,3,464,313.
Ross, Ronald E. Lifting device for engines and the like. 3,482,817, 12-9-69, Cl. 254-133.
Ross, Sayre: *See—*
Lippert, George, 3,484,955.
Ross, Sheldon I., to Bliss, E. W., Company. Repeat cycle release mechanism. 3,479,887, 11-25-69, Cl. 70-3.52
Ross, Sherwood B. Operating-lever console for a gearshift mechanism or the like. 3,473,404, 10-21-69, Cl. 74-491.
Ross, Sidney D.; Petersen, Raymond C.; and Finkelstein, Manuel, to Sprague Electric Company. Alkoxylation of N-methyl-N-hydrocarbylamides. 3,459,643, 8-5-69, Cl. 204-59.
Ross, Stanley E.; Mazzone, Charles P.; and Russo, Carl J., to Stevens, J. P., & Co., Inc. Apparatus for texturizing yarns. 3,441,990, 5-6-69, Cl. 28-1.
Ross, Stanley E.: *See—*
Gula, Eugene; and Ross, Stanley E.,3,438,107.
Ross, Sydney: *See—*
Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney,3,445,339.
Ross, Thomas I.: *See—*
Loomans, Bernard A.; Ross, Thomas I.; Balazer, Richard J.; and Scherping, Clarence K.,3,463,459.
Ross, William A., to Sundstrand Corporation. Hydrostatic transmission. 3,442,153, 5-6-69, Cl. 74-687.
Ross, William C., to Grace, W. R., & Co. Compressible printing roll. 3,467,009, 9-16-69, Cl. 101-216.
Ross, William C.; and Martin, Nathan B., Jr., to Union Carbide Corporation. Purification of alcohol by contact with acid activated clay and distillation. 3,472,739, 10-14-69, Cl. 203-36.
Ross, William James: *See—*
Broadbent, John L.; Bowden, Kenneth; and Ross, William James,3,467,715.
Ross, William M., Jr.: *See—*
Fry, William Charles David; Parker, Patrick Neiland; Ross, William M., Jr.; and Parry, Jimmy H.,3,447,608.
Rossberg, Ehrhard, to Siemens Aktiengesellschaft. Teletypewriter system with at least one sheet teletypewriter machine. 3,448,206, 6-3-69, Cl. 178-2.
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A., to Standard Oil Company (Indiana). Hydration of olefins to alcohols. 3,440,293, 4-22-69, Cl. 260-641.
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A., to Standard Oil Company (Indiana). Production of motor fuels. 3,455,664, 7-15-69, Cl. 44-56.
Rossel, Wolfgang: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Rosselet, Claude, to ETEM, Etablissement de Techniques Modernes. Explosively actuated power tool. 3,471,074, 10-7-69, Cl. 227-10.
Rosselet, Jean P.: *See—*
Berger, Frank M.; Rosselet, Jean P.; and Ludwig, Bernard J.,3,483,290.
Rossellini, Renzo. Device for the remote control of an objective of variable focal length. 3,450,019, 6-17-69, Cl. 95-45.
Rosser, Daniel B., to General Electric Company. Sealed electrical device. 3,484,660, 12-16-69, Cl. 317-234.
Rosser, Reginald John, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Rocket projectiles. 3,468,127, 9-23-69, Cl. 60-201.
Rosset, Jean-Baptiste: *See—*
Corbiere, Paul Jacques; and Rosset, Jean-Baptiste,3,468,841.
Rossetti, Anthony M. Illuminated puzzle. 3,451,681, 6-24-69, Cl. 273-157.
Rossetto, James A.: *See—*
Kircher, Hartmann J., III; and Rossetto, James A.,3,426,529.
Rossi, Alberto: *See—*
Schmidt, Paul; Eichenberger, Kurt; Rossi, Alberto; and Wilhelm, Max,3,444,177.
Rossi, Carl J.: *See—*
Kaveggia, Frederick S.; Rossi, Carl J.; and Peart, Leland L.,3,438,809.
Rossi, Emil R.; and Rainero, Aldo A., Jr. Method of producing handle-anchored formed sugar block. 3,469,997, 9-30-69, Cl. 99-138.
Rossi, Giorgio: *See—*
Losco, Giuseppe; Rossi, Giorgio; Troiani, Ncola; and Santi, Romano,3,439,070.
Tonelli, Pietro de Pietri; Rossi, Giorgio; and Barontini, Alberto,3,436,418.

Rossi, Guido, to Generay-Generale Radiologica S.p.A. Device for tilting, lifting and lowering the patient-supporting board of an X-ray table. 3,441,266, 4-29-69, Cl. 269-323.
Rossi, Jorge A. Releasable carrying means for a key. 3,481,169, 12-2-69, Cl. 70-408.
Rossi, Lawrence T.; and Wrinkle, Raymond L., to American Meter Company, mesne. Calibrator. 3,427,890, 2-18-69, Cl. 74-116.
Rossi, Lawrence T.: *See—*
Wrinkle, Raymond L.; and Rossi, Lawrence T.,3,482,446.
Rossi, Onni Ilmari, to Oy Tahka AB. Method and an apparatus for the sorting by length of sawn and planed timber and for the piling of the same. 3,467,253, 9-16-69, Cl. 209-73.
Rossi, Vito A.: *See—*
Tarneja, Krishan S.; Ernick, Fred G.; and Rossi, Vito A.,3,460,240.
Tarneja, Krishan S.; Rossi, Vito A.; and Maddalena, Joseph R.,3,457,427.
Rossini, Giordano D., to Varian Associates. High-power waveguide waterloads for R.F. energy. 3,445,789, 5-20-69, Cl. 333-22.
Rossiter, Paul H., to Welding Engineers, Inc. Slurry feeder. 3,459,121, 8-5-69, Cl. 100-117.
Rossiter, William A., to General Motors Corporation. Universal joint clamp. 3,421,342, 1-14-69, Cl. 64-17.
Rossler, Werner. Method and device for straightening-stockings and stacking the same. 3,455,124, 7-15-69, Cl. 66-147.
Rossman, Joseph J.; and Hudgins, Eugene. Hydraulic holding devices. 3,463,044, 8-26-69, Cl. 85-9.
Rossmann, Peter F., to National Forge Company. Flexible thread systems for high pressure vessels and the like. 3,487,442, 12-30-69, Cl. 220-39.
Rossmann, Rudolf H.; and Strauss, Edgar, 1/2 to Ruti Machinery Works Ltd., and 1/2 to U.T.L. Incorporated, mesne. Weaving loom. 3,477,475, 11-11-69, Cl. 139-12.
Rossner, Wolfgang: *See—*
Faust, Hans-Dieter; and Rossner, Wolfgang,3,428,774.
Rossner, Wolfgang, to Siemens Aktiengesellschaft. Apparatus for applying fusible materials, particularly solders, to surfaces. 3,459,155, 8-5-69, Cl. 118-202.
Rosso, Marcel: *See—*
Chedeville, Christian; and Lions, Noel, 3,486,370.
Rossoni, Angelo S., to Overhead Door Corporation, mesne. Lift tail-gate. 3,451,572, 6-24-69, Cl. 214-515.
Rossoni, Angelo S., to Overhead Door Corporation, mesne. Lift tail gate. 3,474,921, 10-28-69, Cl. 214-77.
Rostaing, Michel: *See—*
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel,3,471,257.
Rostaing, Michel, to Commissariat a l'Energie Atomique. Apparatus for the production of heavy water. 3,431,080, 3-4-69, Cl. 23-270.5
Rostler, Fritz S., to Witco Chemical Company, Inc. Methods for improvement of asphalts and oil emulsions useful therein. 3,432,321, 3-11-69, Cl. 106-277.
Rostock, Hans: *See—*
Nolte, Helmuth; Deckers, Gunther; and Rostock, Hans,3,430,565.
Rostoker, David, to Corning Glass Works. Synthetic marble. 3,471,307, 10-7-69, Cl. 106-286.
Rosul, John W.: *See—*
Redor, Richard M.; and Rosul, John W.,3,472,463.
Rosvold, Warren C., to Raytheon Company. Method of making semiconductor diodes. 3,432,919, 3-18-69, Cl. 29-578.
Rosvold, Warren C., to Raytheon Company. Multiple semiconductor device. 3,454,835, 7-8-69, Cl. 317-101.
Rosvold, Warren C., to Raytheon Company. Preferential etching technique. 3,486,892, 12-30-69, Cl. 96-36.2
Rosvold, Warren C.; and Legat, Wilhelm H., to Raytheon Company. Isolated cathode array semiconductor. 3,447,235, 6-3-69, Cl. 29-578.
Rosvold, Warren C.: *See—*
Legat, Wilhelm H.; Russell, Lewis K.; and Rosvold, Warren C.,3,423,651.
Roswell Iron and Metal Works, Inc.: *See—*
Johnson, Baynard A., 3,454,150.
Roszkowski, Adolph P.: *See—*
Mohrbacher, Richard Joseph; Poos, George Ireland; and Roszkowski, Adolph P.,3,471,619.
Rosztoczy, Ferenc E., to Bell Telephone Laboratories, Incorporated. Fabrication of solid thin film capacitor. 3,438,874, 4-15-69, Cl. 204-37.
Rota, Beniamino; and Tosetto, Walter. Coffee brewer. 3,455,230, 7-15-69, Cl. 99-287.
Rota Forg Corporation: *See—*
Baumgartner, John R.; and Bouchard, Arthur J., 3,478,556.
Rotaflex of Canada Limited: *See—*
Bailey, Frederick Arthur; and Montgomery, William H., 3,446,955.
Rotary Profile Anstalt: *See—*
Marcovitch, Jacob, 3,446,048.
Marcovitch, Jacob, 3,452,567.
Marcovitch, Jacob, 3,461,701.
Marcovitch, Jacob, 3,466,911.
Marcovitch, Jacob, 3,466,912.
Marcovitch, Jacob, 3,466,916.
Marcovitch, Jacob, 3,466,918.
Marcovitch, Jacob, 3,470,775.
Marcovitch, Jacob, 3,473,358.
Marcovitch, Jacob, 3,474,652.
Marcovitch, Jacob, 3,486,358.
Rotax Limited: *See—*
Pannell, Dennis Alexander, 3,426,229.
Pannell, Dennis Alexander, 3,461,331.
Parish, Norman Arthur, 3,440,490.
Paterson, James Deas; and Sommerville, Gerald George, 3,435,931.
Tolworthy, Robert Theodore, 3,466,456.
Wade, Eric, 3,440,494.
Wade, Eric, 3,449,810.
Rotch, Abbott L., to EG & G, Inc. Electric-discharge system having automatically controlled power supply. 3,432,725, 3-11-69, Cl. 315-241.
Roth, Adrian Werner, to Fabrik Elektrischer Apparate Sprecher & Schuh A.G. Switching circuit for high-voltage direct-current. 3,430,062, 2-25-69, Cl. 307-136.
Roth, Alan: *See—*
Adams, Richard G.; Cobianchi, John F.; and Roth, Alan,3,484,179.
Roth, Albert, to General Dynamics Corporation. Filtering apparatus. 3,445,685, 5-20-69, Cl. 307-295.
Roth, Barbara, to Burroughs Wellcome & Co. (U.S.A.) Inc. Thienopyrimidines. 3,470,183, 9-30-69, Cl. 260-256.5
Roth, Charles T., to Xerox Corporation. Transceiver apparatus for transmitting and recording optical information. 3,426,144, 2-4-69, Cl. 178-6.6
Roth, Charles T., to Xerox Corporation. Field flattener scanning means. 3,485,546, 12-23-69, Cl. 350-7.
Roth, Charles T.; and Smith, James A., to Xerox Corporation. Modulation of arc lamp. 3,449,630, 6-10-69, Cl. 315-172.
Roth, Clarence E., Jr.: *See—*
Wartman, Lloyd H.; and Roth, Clarence E., Jr.,3,464,949.
Roth, Claris D.; Short, Robert G.; and Nevin, Charles S., to Staley, A. E., Manufacturing Company. Hydroxyalkylation of (A) polyhydric alcohols using hydrogen fluoride catalyst and (B) dextrose. 3,449,318, 6-10-69, Cl. 260-209.
Roth, Daniel. Cancer cytoscreening. 3,476,514, 11-4-69, Cl. 23-230.
Roth, Dan, to Kohner Bros., Inc. Toy slidable with oscillating motion under gravity down a zigzag slot. 3,457,671, 7-29-69, Cl. 46-147.
Roth, Donald J., to Continental Can Company, Inc. Method and apparatus for reforming containers. 3,461,699, 8-19-69, Cl. 72-56.
Roth, Douglas J., to Bendix Corporation, The. Copper base friction material with dispersed spinels. 3,428,440, 2-18-69, Cl. 29-182.5
Roth, Edwin S.: *See—*
Mandell, Harry Creston, Jr.; and Roth, Edwin S.,3,432,347.
Roth, Eric M. Particle remover. 3,471,977, 10-14-69, Cl. 51-383.
Roth, Ernest E.; and Tanner, Henry E., to Alvey Conveyor Manufacturing Company. Carton palletizing apparatus. 3,442,400, 5-6-69, Cl. 214-6.
Roth, Etienne; and Lefrancois, Bernard, to Houilleres du Bassin du Nord & du Pas-de-Calais, Commissariat a l'Energie Atomique, L'Air Liquide, Societe pour l'Etude et l'Exploitation des Procedes Georges Claude, and Compagnie de Construction Mecanique Procedes Sulzer. Isotope exchange between a deuterated gas and ammonia. 3,479,140, 11-18-69, Cl. 23-193.
Roth, Gabriel. Pneumatic indicating device. 3,455,329, 7-15-69, Cl. 137-552.
Roth, Helmut: *See—*
Graf, Max; Kotz, Gottfried; and Roth, Helmut,3,473,657.
Roth, Hermann: *See—*
Koch, Werner; Roth, Hermann; and Walz, Heinz,3,470,702.
Roth, Irving: *See—*
Lanes, Albert; Rachlis, Robert E.; Roth, Irving; and Stark, Edward W.,3,445,634.
Roth, James F.: *See—*
Abell, Joseph B., Jr.; Fannin, Loyd W.; and Roth, James F.,3,435,090.
Roth, James F.; and Schaefer, Andrew R., to Monsanto Company. Catalyst and catalytic process. 3,446,865, 5-27-69, Cl. 260-669.
Paulik, Frank E.; Robinson, Ken K.; and Roth, James F.,3,487,112.
Roth, Johann: *See—*
Krull, Ernst; Scheibel, Josef; and Roth, Johann,3,452,658.
Roth, Karl, to Litton Precision Products, Inc. Brushless torquer. 3,439,243, 4-15-69, Cl. 318-138.
Roth, Karl; Anwander, Elmar; and Schonhuber, Max-Josef, to Aktiengesellschaft Brown, Boveri & Cie. Mercury vapor rectifier having a potential control electrode in lead-in structure. 3,441,773, 4-29-69, Cl. 313-163.
Roth, Kenneth A.: *See—*
Korf, Walter O.; and Roth, Kenneth A.,3,428,230.
Roth, Leo J. Window shade apparatus. 3,446,263, 5-27-69, Cl. 160-120.
Roth, Louis C., to Tandy Leather Company. Adjustable hammer. 3,444,908, 5-20-69, Cl. 145-36.

Roth, Michael: *See—*
Nitzsche, Siegfried; Pirson, Ewald Heinrich; and Roth, Michael,3,455,710.
Pirson, Ewald; Roth, Michael; and Nitzsche, Siegfried,3,464,920.
Roth, Morris, to Halliburton Company. Constant thread load cover. 3,430,575, 3-4-69, Cl. 103-153.
Roth, Peter H.: *See—*
Kolesinski, Henry S.; and Roth, Peter H.,3,460,945.
Taylor, Lloyd D.; and Roth, Peter H.,3,479,186.
Roth, Robert Richard, to Deere & Company. Roll-over two-way plow having novel safety standard. 3,420,315, 1-7-69, Cl. 172-265.
Roth, Roy E., Company: *See—*
Sieghartner, Leonard J., 3,485,266.
Roth, Walter; Gallo, Charles F.; and Leiga, Algird G., to Xerox Corporation. Photo-charging of xerographic plates. 3,481,669, 12-2-69, Cl. 355-3.
Roth, Willard: *See—*
Ross, Robert H.; Roth, Willard; Larko, Robert; and Swartzfager, Walter,3,447,790.
Roth, William F.; and Fissel, Thomas E., to Chisholm-Ryder Company of Pennsylvania. Case flap opening machine. 3,451,195, 6-24-69, Cl. 53-382.
Roth, Willy: *See—*
Liechti, Peter; and Roth, Willy,3,468,963.
Varsanyi, Denis; and Roth, Willy,3,467,532.
Rothauser, Charles, to Industrial Products Proprietary Limited. Trap. 3,470,900, 10-7-69, Cl. 137-247.51
Rothauser, Ernst H.; and Paulus, Erwin F., to International Business Machines Corporation. Device for excitation controlled smoothing of the spectrum-channel signals of a vocoder. 3,431,355, 3-4-69, Cl. 179-1.
Rothauser, Ernst: *See—*
Bandat, Kurt; and Rothauser, Ernst,3,450,838.
Rothbaum, Arthur H. Elongated article dispenser having a rotary trap chamber. 3,445,037, 5-20-69, Cl. 221-196.
Rothe, Wilfried: *See—*
Knorre, Helmut; and Rothe, Wilfried,3,470,225.
Rothemund, Wilhelm F., to Samson Window Corporation. Safety window fixture. 3,474,572, 10-28-69, Cl. 49-390.
Rothenberg, Don H.: *See—*
Maggart, Ronald C.; Rothenberg, Don H.; and Heinrich, Raymond L.,3,433,661.
Rothenberg, Simon: *See—*
Ziffer, Jack; Gaffney, Arthur S.; Rothenberg, Simon; and Cairney, Thomas J.,3,454,501.
Rothenberger, Roland D.; and Krauser, James L., to Sperry Rand Corporation. Common mode choke for plural groups of memory array drive-return line pairs. 3,482,227, 12-2-69, Cl. 340-174.
Rother, Arnulf: *See—*
Liebscher, Roland; and Rother, Arnulf,3,421,120.
Rother, Francis J.: *See—*
Bentz, Erwin J. H.; and Rother, Francis J.,3,454,220.
Rotheraine, Jerome H.Traveller's kit. 3,441,972, 5-6-69, Cl. 15-258.
Rotherham, Miles Edward: *See—*
Evans, Evan William; and Rotherham, Miles Edward,3,444,009.
Rothermel, Edward M., to American Biltrite Rubber Co., Inc. Vibration damping pad. 3,459,400, 8-5-69, Cl. 248-358.
Rothermel, John H., to Integra-Structures, Inc. Prefabricated wall structure elements and assembly thereof. 3,436,885, 4-8-69, Cl. 52-207.
Rothert, Horst, to Chatillon Societa Anonima Italiana Per le Fibre Tessili Artificiali S.p.A., and Fischer, Karl, Apparate- und Rohrleitungsbau. Process for the prevention of build-up of deposits in vapor conduits. 3,468,849, 9-23-69, Cl. 260-75.
Rothfelder, Raymond Ernest, to Grace, W. R., & Co. Mulching process. 3,475,435, 10-28-69, Cl. 111-1.
Rothfleisch, Jack E.: *See—*
Lafyatis, Paul G.; and Rothfleisch, Jack E.,3,458,288.
Litz, Lawrence M.; and Rothfleisch, Jack E.,3,459,510.
Rothgordt, Ulf, to U.S. Philips Corporation, mesne. Electrographical printing or recording devices with employ coincident current drive of the print electrodes. 3,483,566, 12-9-69, Cl. 346-74.
Rothi, Raymond C.: *See—*
Kindlien, Gordon E.; and Rothi, Raymond C.,3,439,747.
Rothman, Matthew J. Portable illuminated mirror. 3,476,927, 11-4-69, Cl. 240-4.2
Rothmann, Hans; Keil, Werner; and Reichter, Heinz, to Gesellschaft fur Elektrometallurgie mbH. Method of electrolytically precipitating chromium metal from aqueous chromium (VI) oxide solutions. 3,444,060, 5-13-69, Cl. 204-105.
Rothmayr, Willy, to Afico S.A. Cryodesiccation apparatus. 3,465,452, 9-9-69, Cl. 34-92.
Rothrock, Roy R.: *See—*
Haines, Charles, Jr.; and Rothrock, Roy R.,3,438,853.
Rothschild, Edgar, to Caddy Corporation of America. Tray lifter. 3,481,448, 12-2-69, Cl. 198-136.
Rothstein, Howard B.: *See—*
Rothstein, Morris L.; and Rothstein, Howard B.,3,449,787.
Rothstein, Jerome, to Laboratory for Electronics, Inc. Q-switched laser. 3,473,145, 10-14-69, Cl. 331-94.5
Rothstein, Morris L.; and Rothstein, Howard B. Central vacuum cleaning system for vehicles. 3,449,787, 6-17-69, Cl. 15-313.
Rothstein, Paul; Shannon, Castle; and Batz, Walter, to Jones & Laughlin Steel Corporation. Manufacture of electrolytic tinplate. 3,428,534, 2-18-69, Cl. 204-37.
Rothwachs, Aaron: *See—*
Reich, Murray H.; and Rothwachs, Aaron,3,445,437.
Rotier, Donald J.: *See—*
Kokesh, Ronald A.; and Rotier, Donald J.,3,487,386.
Roto American Corporation: *See—*
Maccherone, Lawrence, 3,462,026.
Messmer, Edwin E., 3,428,509.
Roto Rico Co., Inc.: *See—*
Batchelor, John H., 3,450,248.
Roto-Disc Valve Company: *See—*
Marley, Walter M.; and Milstein, Herman, 3,424,200.
Roto-Finish Company: *See—*
Balz, Gunther W., 3,422,580.
Balz, Gunther W., 3,423,884.
Balz, Gunther W., 3,435,564.
Balz, Gunther W., 3,466,815.
Roto-Finish Limited: *See—*
Blundel, Brian F., 3,435,565.
Roto-Print Machine Corporation: *See—*
Moskowitz, Donald, 3,456,584.
Roto-Swing Door Co., Inc.: *See—*
Catlett, John C., 3,422,704.
Gilbert, James E.; Kroutil, Larry O.; and Ingham, Gary G., 3,445,963.
Ingham, Gary G., 3,464,162.
Rotolico, Anthony J., to Metco Inc. Nozzle and gas mixing arrangement for powder type flame spray gun. 3,455,510, 7-15-69, Cl. 239-85.
Rotondo, A., & Sons, Inc.: *See—*
La Monica, Frank, 3,438,157.
Rotondo, Anthony J., to SI Handling Systems, Inc. Tow truck switching system. 3,479,966, 11-25-69, Cl. 104-88.
Rotork Controls Limited: *See—*
Fry, Jeremy J., 3,480,746.
Rotork Engineering Company Limited: *See—*
Fry, Jeremy J., 3,463,891.
Fry, Jeremy J., 3,473,397.
Fry, Jeremy J.; Hore, Donald L.; and Nott, Peter T.M., 3,475,000.
Rotron Incorporated: *See—*
Griffo, Joseph B., 3,452,596.
Harris, Dwight E.; and Grad, Peter P., 3,445,148.
Rotron Manufacturing Company, Inc.: *See—*
Fisher, William W., 3,444,481.
Grad, Peter P., 3,460,242.
Wilson, Donald S., 3,449,605.
Rott, Andre: *See—*
Cassiers, Paul Maria; Rott, Andre; Meeussen, Louis Achilles; and Van Engeland, Jozef Leonard,3,472,676.
Rotta, Gotz: *See—*
Hoegl, Helmut; Rotta, Gotz; and Columberg, Alfred,3,464,968.
Rottendorf, Andreas J., Chemische Fabrik: *See—*
Siemer, Harm, 3,465,039.
Rottmann, Hans R.: *See—*
Klawitter, Roland E.; Murley, Ellsworth M., Jr.; Rottmann, Hans R.; and Sebring, Lowell W.,3,466,452.
Rottmann, Hans R., to Owens-Illinois, Inc. Radiation-sensitive apparatus for inspecting wall thickness of hollow containers. 3,439,178, 4-15-69, Cl. 250-222.
Rottmann, Hans R., to International Business Machines Corporation. Mask alignment system using coherent fiber bundle. 3,442,583, 5-6-69, Cl. 353-34.
Rottmann, Hans R., to International Business Machines Corporation. Optical system adapted for rotation of an image to be scanned with reference to a scanning path. 3,457,422, 7-22-69, Cl. 250-219.
Rottmann, Hans R., to International Business Machines Corporation. Apparatus for positioning articles on substrates. 3,475,805, 11-4-69, Cl. 29-203.
Heymann, Hans; and Rottmann, Hans,3,473,721.
Rouanet, Jean; and Berthet, Aristide, to Institut de Recherches de la Siderurgie Francaise. Method and apparatus for obtaining a constant predetermined flow of liquid, especially molten metal. 3,439,759, 4-22-69, Cl. 177-1.
Rouanet, Jean: *See—*
Raguin, Jean; and Rouanet, Jean,3,486,882.
Roubal, Joseph J. Film control apparatus in a camera. 3,450,320, 6-17-69, Cl. 226-46.
Roudebush, Melvin T., to National Cash Register Company, The. Positioning apparatus. 3,465,655, 9-9-69, Cl. 95-4.5
Roudebush, Richard M.: *See—*
Cooke, Robert R.; and Roudebush, Richard M.,3,433,649.
Roudier, Rene: *See—*
Foulquier, Henri; Roudier, Rene; and Thome, Paul,3,454,740.
Foulquier, Henri; Roudier, Rene; and Thome, Paul,3,463,899.

Roueche, Armand: *See—*
Ronco, Karl; and Roueche, Armand,3,472,834.
Rouge, Pierre; Roze, Michel; and Vivien, Jean, to Commissariat a l'Energie Atomique. Nuclear fuel assembly. 3,425,908, 2-4-69, Cl. 176-78.
Rougeot, Henri, to CSF-Compagnie Generale de Telegraphie Sans Fil. Straight parallel channel electron multipliers. 3,424,909, 1-28-69, Cl. 250-207.
Rough, Robert R., to Owens-Illinois, Inc. Molten addition melter for a forehearth. 3,486,874, 12-30-69, Cl. 65-146.
Roughton, Norbert A., to North American Rockwell Corporation. Method and apparatus for vibration analysis utilizing the Mossbauer effect. 3,454,766, 7-8-69, Cl. 250-83.3
Rouillard, Jean: *See—*
Gandolfo, Jean Marie; and Rouillard, Jean,3,456,812.
Roulet, Robert F.; and Owen, Willis A., to Ames, W. R., Company. Automatic drain valve for irrigation pipes. 3,456,683, 7-22-69, Cl. 137-517.
Roulund, Poul B.; and Freeman, Peter D., to FMA, Inc. Film transport system. 3,437,279, 4-8-69, Cl. 242-55.11
Round Tool Co., Inc.: *See—*
Longuski, Robert N.; and Zaske, Robert E., 3,433,491.
Roundtree, Grover L.: *See—*
Funk, Floyd S.; Roundtree, Grover L.; and West, Joe E.,3,477,351.
Rountree, Richard C.: *See—*
Sargent, David; and Rountree, Richard C.,3,451,643.
Rouques, Pierre A.: *See—*
Andriussi, Francois G.; and Rouques, Pierre A.,3,458,122.
Rous, Ronald Frank: *See—*
Page, Peter Colin; Rous, Ronald Frank; Sigrist, Paul; and Ward, Peter William,3,423,539.
Rouse, Benjamin P., Jr.: *See—*
Teter, Robert M., Jr.; Addleburg, John W.; Rouse, Benjamin P., Jr.; and Snead, Charles D.,3,442,744.
Rouse, John Wilson, to American Can Company. Tab-opening can. 3,422,983, 1-21-69, Cl. 220-54.
Rouse, John Wilson; and Simmons, Harley Earl, to American Can Company. Reinforced bead for a tab opening can. 3,478,917, 11-18-69, Cl. 220-54.
Rouse, Stewart A.; and Olson, Thomas C., said Olson assor. to Stainless & Steel Products Co. Bulk milk pickup and transport containerization system. 3,421,646, 1-14-69, Cl. 214-515.
Rouse, Thomas O.: *See—*
Weininger, Joseph L.; and Rouse, Thomas O.,3,433,722.
Weininger, Joseph L.; and Rouse, Thomas O.,3,459,651.
Rouse, William R. Tamper-proof poison bottle closure. 3,426,932, 2-11-69, Cl. 215-9.
Roush, David P.: *See—*
Ilg, Ambrose John, 3,438,149.
Roush, Leslie M., to Microform Data Systems, Inc., mesne. Microfilming process. 3,433,565, 3-18-69, Cl. 355-77.
Rousseau, Serge: *See—*
Milochevitch, Alexandre; and Rousseau, Serge,3,480,874.
Roussel, Norman T. Chord playing attachment for fretted musical instruments. 3,422,717, 1-21-69, Cl. 84-317.
Roussel-UCLAF: *See—*
Allais, Andre; and Girault, Pierre, 3,445,469.
Allais, Andre; and Girault, Pierre, 3,445,480.
Allais, Andre; and Girault, Pierre, 3,449,347.
Allais, Andre, 3,463,780.
Allais, Andre, 3,479,360.
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, 3,449,382.
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, 3,478,062.
Bellet, Paul; and Van Thuong, Truong, 3,432,393.
Bellet, Paul; Van Thuong, Truong; and Nomine, Gerard, 3,471,464.
Bertin, Daniel; Pierdet, Andre; Nedelec, Lucien; and Gasc, Jean-Claude, 3,472,884.
Bertin, Daniel; and Pierdet, Andre, 3,478,067.
Bertin, Daniel; and Pierdet, Andre, 3,484,462.
Brule, Roger, 3,433,869.
Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, 3,472,885.
Grosjean, Marc, 3,442,592.
Joly, Robert; Warnant, Julien; Jolly, Jean; Prost-Marechal, Jacques; Bucourt, Robert; and Tessier, Jean, 3,424,745.
Larde, Raymond; and Couillaud, Andre, 3,446,746.
Larde, Raymond; and Couillaud, Andre, 3,474,086.
Martel, Jacques; Huynh, Chanh; Toromanoff, Edmond; and Nomine, Gerard, 3,445,499.
Muller, Georges; and Poittevin, Andre, 3,420,834.
Muller, Georges; and Poittevin, Andre, 3,426,027.
Muller, Georges; and Poittevin, Andre, 3,442,953.
Nomine, Gerard; Penasse, Lucien; and Barthelemy, Pierre, 3,423,506.
Nomine, Gerard; Bucourt, Robert; Pierdet, Andre; and Snozzi, Candido, 3,444,297.
Nomine, Gerard; and Bucourt, Robert, 3,458,632.
Rigaudy, Jean, 3,453,315.
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard, 3,453,267.
Rousselet, Joseph Antoine Noel. Self cleaning centrifugal separator. 3,432,092, 3-11-69, Cl. 233-22.
Rousselot, Felix, to Geigy Chemical Corporation. Valve and propellant cartridge assembly for pushbutton aerosol dispenser. 3,478,933, 11-18-69, Cl. 222-193.
Rousselot, George E.: *See—*
Boggs, William H.; and Rousselot, George E.,3,434,866.
Rousselot, Georges E., to International Business Machines Corporation. Method of etching urea formaldehyde for making printing elements. 3,434,867, 3-25-69, Cl. 117-47.
Rousset, Rene P.; and Bennett, Brian S., to British Oxygen Company Limited, The. Valve assembly and mechanism. 3,420,418, 1-7-69, Cl. 222-399.
Roussin, Alfred G., to General Electric Company. Electron beam system. 3,423,625, 1-21-69, Cl. 315-16.
Rousso, Jack J., Jr., to Mobil Oil Corporation. Method and apparatus for recording identifying data on seismic records. 3,432,806, 3-11-69, Cl. 340-15.5
Rousso, Jack J.: *See—*
Brewster, Elton J.; and Rousso, Jack J.,3,465,348.
Roussos, Nicholas P., to Midland-Ross Corporation. Conduit clam support. 3,445,081, 5-20-69, Cl. 248-72.
Rout, Eric Raymond, to Marconi Company Limited, The, and Standard Telephones & Cables Limited. Sound demodulator for television receiver. 3,466,387, 9-9-69, Cl. 178-5.8
Rout, Eric Raymond: *See—*
Geddes, William Keith Elliott; and Rout, Eric Raymond,3,428,762.
Routh, Benjamin I., to Rice Engineering & Operating, Inc. Method for lining a pipe. 3,482,007, 12-2-69, Cl. 264-71.
Routh, Claude C. Dual section all pass lattice filter wherein nonlinearities of two sections cancel. 3,449,696, 6-10-69, Cl. 333-6.
Routh, Claude C.: *See—*
Hancks, Dorothy E.; Hubbard, William C.; and Routh, Claude C.,3,458,857.
Papineau, Milton D.; and Routh, Claude C.,3,462,729.
Routier, Claude: *See—*
Cimetiere, Claudette; Desroches, Jean; and Routier, Claude,3,459,513.
Routsis, Kostas: *See—*
Spiegler, Kurt S.; and Routsis, Kostas,3,466,138.
Rouvalis, George: *See—*
Gill, Joseph; and Rouvalis, George,3,470,428.
Rouverol, William S. Pitch point action gearing. 3,438,279, 4-15-69, Cl. 74-462.
Rouverol, William S. Shiftable rotor variable speed induction motor. 3,460,016, 8-5-69, Cl. 318-243.
Rouverol, William S. Transmission. 3,482,461, 12-9-69, Cl. 74-198.
Rouviere, Roger: *See—*
Tiraspolsky, Wladimir; and Rouviere, Roger,3,449,030.
Roux, Armand. Additive lamphouse. 3,449,045, 6-10-69, Cl. 353-31.
Roux, Georges: *See—*
Lansiart, Alain; Morucci, Jean Pierre; and Roux, Georges,3,449,573.
Rouxel, Roland; and Helein, Jean G., to Battelle Memorial Institute, and Compagnie Francaise Thomson-Houston, International Division. Apparatus for controlling an industrial installation. 3,480,765, 11-25-69, Cl. 235-150.1
Rouyer, Georges; and Pilette, Michel, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Tubular body with corrugated wall. 3,458,684, 7-29-69, Cl. 219-81.
Rouzier, Michel M.: *See—*
Lucas, Pierre M.; Duquesne, Jean F.; LeGall, Pierre; and Rouzier, Michel M.,3,454,723.
Rouzier, Michel M.; and Sautel, Auguste A. Reed relay matrices of crosspoints. 3,454,911, 7-8-69, Cl. 335-112.
Rovan, Joseph W., to United Aircraft Corporation. Resistance monitoring apparatus. 3,476,906, 11-4-69, Cl. 219-121.
Rovell, Alexander, to North American Rockwell Corporation. Circuit for limiting current to integrated circuits. 3,463,935, 8-26-69, Cl. 307-202.
Rovelsky, Leon A.: *See—*
Frederickson, Lyle R.; Rovelsky, Leon A.; and Wood, Robert L.,3,432,752.
Rover, Martin; Luth, Erwin; Schmitz, Lambert; and Linsert, Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for successively drawing off, measuring, balling and separating a thread. 3,433,424, 3-18-69, Cl. 242-47.
Roveti, Denes. Impedance Measuring instrument having a voltage divider comprising a pair of amplifiers. 3,448,378, 6-3-69, Cl. 324-57.
Rovnyak, Richard M.: *See—*
Cook, Bates C., Jr.; and Rovnyak, Richard M.,3,440,032.
Rovsek, Edward J. Photographic camera using motion picture film for single frame exposure. 3,464,336, 9-2-69, Cl. 95-31.
Row, Lawrence. Grain truck cover. 3,481,371, 12-2-69, Cl. 139-419.

Rowan, Darrel J. Insulating food container. 3,484,015, 12-16-69, Cl. 220-4.
Rowan, Edward B. Prefabricated fencing. 3,484,081, 12-16-69, Cl. 256-22.
Rowan Industries, Inc.: *See—*
Lawn, Francis, 3,462,671.
Rowan, Steven T. Rotary and circular saucer-shaped airfoil aircraft. 3,469,804, 9-30-69, Cl. 244-12.
Rowbottam, Frank W., to TFR Corporation. Burglar alarm. 3,429,292, 2-25-69, Cl. 116-87.
Rowe, Alan C.: *See—*
Furlong, Owen D.; Rowe, Alan C.; and Wright, Eric F.,3,444,875.
Rowe, Allen M., Jr.Desalination by flash freezing with CO_2. 3,474,635, 10-28-69, Cl. 62-58.
Rowe, Carleton N.: *See—*
Dickert, Joseph J., Jr.; Heilweil, Israel J.; and Rowe, Carleton N.,3,423,316.
Rowe, Charles: *See—*
Jacks, Eric; and Rowe, Charles,3,480,901.
Rowe, David: *See—*
Weber, Arthur; Hill, Franics R.; and Rowe, David,3,436,365.
Rowe, Edward, to Sylvania Electric Products, Inc. Electrical filament support device. 3,423,622, 1-21-69, Cl. 313-344.
Rowe, Frank E., Jr., to Deering Milliken Research Corporation. Plug gauge. 3,419,966, 1-7-69, Cl. 33-178.
Rowe, George E., to Emhart Corporation. Actuating mechanism. 3,457,838, 7-29-69, Cl. 92-33.
Rowe, George E., to Emhart Corporation. Mold closing boost mechanism for glassware forming machine. 3,460,931, 8-12-69, Cl. 65-313.
Rowe, Gerhardt C., to Keuffel & Esser Company. Magnetic tape gage. 3,482,316, 12-9-69, Cl. 33-1.
Rowe, Harbert D., to Lockheed Aircraft Corporation. Adjustable seat. 3,471,195, 10-7-69, Cl. 297-101.
Rowe, Horace N., to Rowe Industries, Inc. Coil loaded antenna. 3,461,455, 8-12-69, Cl. 343-749.
Rowe Industries, Inc.: *See—*
Fawzy, Moharram M., 3,455,023.
Leavitt, William R., 3,433,989.
Rowe, Horace N., 3,461,455.
Rowe International, Inc.: *See—*
Auerbach, William A.; Kurimsky, Albert; and Calzaretta, Richard, 3,446,327.
Breitenstein, Charles T.; and Nicolaus, Frank G., 3,483,957.
Calzaretta, Richard; Kull, Leo; and Kurimsky, Albert, 3,437,237.
Hooker, Donald E., 3,485,358.
Rowe, Irwin: *See—*
Sherwood, Donald G.; and Rowe, Irwin,3,486,095.
Rowe, Lacy A., to Johnson-Carper Furniture Company, Incorporated. Coil spring set extension attachment. 3,428,304, 2-18-69, Cl. 267-97.
Rowe, Paul E.: *See—*
Copley, John R.; Cuming, William R.; and Rowe, Paul E.,3,425,577.
Rowe, Robert, to Societe de l'Acumulateur Fulmen. Storage batteries with deflectors and a general cover. 3,438,818, 4-15-69, Cl. 136-170.
Rowe, Snowden, to Ohmart Corporation, The. Method of measuring thickness of a film material. 3,438,047, 4-8-69, Cl. 346-1.
Rowe, Thomas H.: *See—*
Evans, James R.; and Rowe, Thomas H.,3,435,418.
Rowe, William Wallace: *See—*
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace,3,483,071.
Rowekamp, William H.; and Laug, Charles J., to Sheperd, William F., Company. Release means having plural arms engaging same coin. 3,485,334, 12-23-69, Cl. 194-93.
Rowell, Albert T., Sr. Method and apparatus for stereoscopic photography. 3,437,406, 4-8-69, Cl. 352-60.
Rowell, Douglas Whitman, to Anaconda American Brass Company. Method for changing the width of a strip metal and for forming tubes therefrom. 3,474,522, 10-28-69, Cl. 29-477.7
Rowell, Gar Lee. Whirling-whistling toys. 3,461,603, 8-19-69, Cl. 46-52.
Rowell, John M.: *See—*
Kunzler, John E.; Levinstein, Hyman J.; and Rowell, John M.,3,423,607.
Rowell, John M., to Bell Telephone Laboratories, Incorporated. Superconducting device utilizing an alloy material. 3,466,470, 9-9-69, Cl. 307-306.
Rowell, William G., to Technical Marketing Associates, Inc. Self-checking detector. 3,421,156, 1-7-69, Cl. 340-228.
Rowell, William G. Electrical timing circuit. 3,422,279, 1-14-69, Cl. 307-132.
Rowell, William J.: *See—*
Cranston, Albert E., Jr.; Cranston, Albert W.; and Rowell, William J.,3,471,994.
Rowett, Lancelot R. Disposable urine specimen tube. 3,420,107, 1-7-69, Cl. 73-425.6
Rowland, Bobby A.: *See—*
Schoerner, Roger J.; and Rowland, Bobby A.,3,444,684.
Rowland, Charles W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,429,477.
Rowland, David L. Nested arm chair. 3,446,530, 5-27-69, Cl. 297-239.
Rowland, David L. Collapsible and stackable paper ash receptacle for cigarettes. 3,468,317, 9-23-69, Cl. 131-235.
Rowland, David L. Dispensing package for paper-cup ashtrays and the like. 3,480,179, 11-25-69, Cl. 221-63.
Rowland, George Robert: *See—*
Horak, William; and Rowland, George Robert,3,437,499.
Rowland-Hill, Edward William; De Pauw, Richard A.; and Karlsson, Elof K., to International Harvester Company. Axial flow-type combine. 3,481,342, 12-2-69, Cl. 130-27.
Rowland, Howard J.: *See—*
Bickford, William J.; and Rowland, Howard J.,3,471,788.
Rowland, John K.: *See—*
Livingston, Leslie D.; Rowland, John K.; and Crespin, George T. F.,3,440,863.
Rowland Products, Incorporated: *See—*
Matt, Albert R., Jr.; and Steinert, Richard M., 3,476,107.
Nauta, Jan P., 3,443,278.
Rowland, William P., 3,421,805.
Rowland, William P., 3,422,175.
Rowland, William P., 3,449,158.
Rowland, Ralph Lawrence, to Reynolds, R. J., Tobacco Company. Synthesis of dehydroionone. 3,436,421, 4-1-69, Cl. 260-587.
Rowland, William P., to Rowland Products Incorporated. Changing optical pattern display. 3,421,805, 1-14-69, Cl. 350-6.
Rowland, William P., to Rowland Products, Incorporated. Method for extruding synthetic thermoplastic sheet material. 3,422,175, 1-14-69, Cl. 264-75.
Rowland, William P., to Rowland Products, Incorporated. Method of making a phased lenticular composite strip for optical effects. 3,449,158, 6-10-69, Cl. 156-209.
Rowlands, David H., to Scovill Manufacturing Company. Three-piece automatic lock slider. 3,427,692, 2-18-69, Cl. 24-205.14
Rowlands, Derek; and Charterton, Roy. Pallets formed from plastics material. 3,467,032, 9-16-69, Cl. 108-51.
Rowlands, Richard O.; and Rohm, Edward L., to United States of America, Navy. Transistor pulse repeater network. 3,457,508, 7-22-69, Cl. 325-13.
Rowlands, Tom: *See—*
Molins, Desmond Walter; and Rowlands, Tom,3,447,679.
Rowley, Alan Stamford. Machines for sharpening rotary cutters. 3,468,065, 9-23-69, Cl. 51-37.
Rowley, Cecil Alan, to Domtar Limited. Partitioned end loading carton. 3,459,328, 8-5-69, Cl. 220-115.
Rowley, David S.: *See—*
Link, Howard D.; Bridwell, Harold C.; and Rowley, David S.,3,437,159.
Rowley, David S., to Christensen Diamond Products Company. Coring apparatus with hydraulically retrievable inner core barrel. 3,481,412, 12-2-69, Cl. 175-247.
Rowley, Elizabeth A.: *See—*
Jones, Peter H.; and Rowley, Elizabeth A.,3,478,013.
Rowley, Gene V.: *See—*
Watson, Ellwood R.; Rowley, Gene V.; and Wunderlich, Charles R.,3,432,585.
Rowley, Geoffrey Charles, to International Standard Electric Corporation. Error detection and correction equipment. 3,474,412, 10-21-69, Cl. 340-146.1
Rowley, Martin E., to Eastman Kodak Company. Preparation of cellulose ester and ether sulfates with low inorganic salt content. 3,478,016, 11-11-69, Cl. 260-215.
Rowley, Walter E., Jr., to Edwards Company, Inc. Surge limiting system. 3,423,636, 1-21-69, Cl. 317-20.
Rowley, Walter E., Jr.; and Rissolo, Basil D., to Edwards Company, Inc. Supervised alarm circuits. 3,448,448, 6-3-69, Cl. 340-409.
Rowley, William Richard Charlton: *See—*
Cook, Alan Hugh; Rowley, William Richard Charlton; and Wilson, David Charles,3,469,205.
Cook, Alan Hugh; Rowley, William Richard Charlton; Stanley, Victor William; Wilson, David Charles; and Hitchens, Robert George,3,486,824.
Rownd, Robert M. Vacuum bottles having improved bottom closures. 3,476,277, 11-4-69, Cl. 215-13.
Roworth, Donald Anthony Acott: *See—*
Scarr, Robert Walter Alister; Barnes, George John Preston; and Roworth, Donald Anthony Acott,3,471,791.
Rowsell, David George: *See—*
Goldwhite, Harold; Haszeldine, Robert Neville; and Rowsell, David George,3,474,044.
Rowton, Richard L., to Jefferson Chemical Company, Inc. Acrylate production. 3,441,598, 4-29-69, Cl. 260-486.
Rox Lufttechnische Geratebau G.m.b.H.: *See—*
Laux, Hartmut, 3,424,237.
Roy, Andre: *See—*
Roy, Georges Adrien; and Roy, Andre,3,428,521.

Roy, Billy Bert; and Gregerson, Stanley Martin, to Deere & Company. Dump valve for hydraulic control system. 3,474,824, 10-28-69, Cl. 137-596.13
Roy, Clarence H., to Procter & Gamble Company, The. Detergent composition. 3,422,021, 1-14-69, Cl. 252-161.
Roy, Donald Walther, to Eastman Kodak Company. Method for preparing pure, stable Zn Se powder. 3,454,358, 7-8-69, Cl. 23-50.
Roy, Donald W.: *See—*
Carnall, Edward, Jr.; Parsons, William F.; and Roy, Donald W.,3,475,116.
Roy, Donald W.; and Parson, William F., to Eastman Kodak Company. Method of forming zinc selenide infrared transmitting optical elements. 3,454,685, 7-8-69, Cl. 264-1.
Roy, Donald W.; and Parsons, William F., to Eastman Kodak Company. Hot pressing titanium dioxide. 3,459,503, 8-5-69, Cl. 23-202.
Roy, Emil. Apparatus for depicting effectiveness of golfer's swing. 3,438,634, 4-15-69, Cl. 273-186.
Roy, Georges Adrien; and Roy, Andre. Adjustable deckle for the suction flat box of a paper-making machine. 3,428,521, 2-18-69, Cl. 162-366.
Roy, Gerald L., to Armstrong Cork Company. Vented closure. 3,448,882, 6-10-69, Cl. 215-56.
Roy, Hrishikesh Chandra, to Metzeler AG. Method for improving the physical and cord- adhesion properties of natural rubber or styrene butadiene rubber. 3,480,508, 11-25-69, Cl. 161-227.
Roy, Jean-Francois Georges. Compression-depression machine having rotary pistons. 3,451,345, 6-24-69, Cl. 103-125.
Roy, Joseph Yvon; and MacDonald, John Kenneth, to Conrac Corporation. Method and apparatus for regenerated vestigial sideband reception. 3,466,548, 9-9-69, Cl. 325-331.
Roy, Melvin C., 1/2 to Bailey, Ray V. Apparatus for use with a combine to destroy the germination of weed seeds. 3,448,933, 6-10-69, Cl. 241-68.
Roy, Michael G.; and Wallace, Joseph D., to Coleman Company, Inc., The. Collapsible galley assembly for trailer. 3,472,219, 10-14-69, Cl. 126-37.
Roy, Michael G.: *See—*
Gladden, David J.; and Roy, Michael G.,3,457,930.
Roy, Milton, Company: *See—*
Serfass, Earl J., 3,448,035.
Roy, Neal L.: *See—*
Hansen, David O.; and Roy, Neal L.,3,423,627.
Hansen, David O.; Friichtenicht, Joseph F.; and Roy, Neal L.,3,435,208.
Roy, Paul E., to Les Industries de Fibre de Verre de Thetford Inc. Traction belt for low horsepower snow vehicles. 3,451,729, 6-24-69, Cl. 305-38.
Roy, Wayne C., to Federal Pacific Electric Company. Transformer with fuse. 3,479,563, 11-18-69, Cl. 317-15.
Royal Appliance Manufacturing Co., Inc.: *See—*
Erbor, Stanley E., 3,437,424.
Erbor, Stanley E., 3,444,582.
Royal Bond, Inc.: *See—*
Schweich, Henry L., 3,462,592.
Royal Development Company, Inc.: *See—*
Rogers, Walter Clark, Jr., 3,456,268.
Royal Industries: *See—*
Johnson, John R.; and Goodwin, Robert F., 3,430,893.
Royal Mc Bee (Canada) Limited: *See—*
Shepherd, George E., 3,420,162.
Royal Packaging Equipment, Inc.: *See—*
Lovas, Stephen P.; and Di Monico, George S., 3,422,712.
Royal Products Incorporated: *See—*
Kato, Jumpei, 3,435,404.
Royal Typewriter Company, Inc.: *See—*
Arthur, George T., 3,435,658.
Lapointe, Lloyd J.; and Parker, Ralph L., 3,451,916.
Royalite Oil Company: *See—*
Cymbalisty, Lubomyr M. O., 3,433,245.
Royall, Robert L., Jr.: *See—*
Bertics, John P.; and Royall, Robert L., Jr.,3,472,272.
Royalmetal Corporation: *See—*
Benoit, Roland A.; and Tripodi, Joseph, 3,478,372.
Royals, Edwin E., to Tenneco Chemicals, Inc. Resins and their production. 3,468,854, 9-23-69, Cl. 260-78.5
Royals, Edwin E.; and Doyle, William C., Jr., to Tenneco Chemicals, Inc. Reaction products and their production. 3,453,251, 7-1-69, Cl. 260-97.5
Royce, Martin R., to Radio Corporation of America. Color picture display containing a red-emitting europium-activated yttrium oxysulfide phosphor. 3,423,621, 1-21-69, Cl. 313-92.
Royce, Robert C.: *See—*
Houghton, Warren W.; and Royce, Robert C.,3,483,761.
Roycroft, Donald M.: *See—*
Crespin, George T. F.; Roycroft, Donald M.; and Price, Colin D.,3,447,358.
Royer Foundry and Machine Co.: *See—*
Broersma, Robert J., 3,450,036.
Broersma, Robert J.; and Suits, Scott O., 3,455,084.
Broersma, Robert J., 3,469,366.
Royer, James J., to Bell Telephone Laboratories, Incorporated. Quartz crystals for piezoelectric resonators. 3,483,402, 12-9-69, Cl. 310-9.5
Royer, Jean: *See—*
Charbonnier, Roger; and Royer, Jean,3,437,789.
Royer, John A., to Buckner Industries, Inc. Rotary impact sprinkler having control means for increasing the force of impact. 3,434,665, 3-25-69, Cl. 239-230.
Royer, John A., to Buchner Industries, Inc. Liquid flow regulator. 3,451,431, 6-24-69, Cl. 138-46.
Royer, John A., to Bunkner Industries, Inc. Fluid metering device. 3,459,403, 8-5-69, Cl. 251-34.
Royer, John A., to Buckner Industries, Inc. Pressure regulating device for fluid dispening systems. 3,478,776, 11-18-69, Cl. 137-491.
Royet, Jean: *See—*
Donadieu, Lucien; Kloeckner, Edmond; Aupox, Marcell; and Royet, Jean,3,470,508.
Donadieu, Lucien; Royet, Jean; and Maldy, Jacques,3,474,187.
Royle, John, & Sons: *See—*
Tanis, Edward, 3,448,938.
Roylyn Incorporated: *See—*
Nusbaum, Henry, 3,437,771.
Roys, George P.: *See—*
Owens, Thomas F.; and Roys, George P.,3,486,339.
Roys, Henry E., to RCA Corporation. Transducer with curved surface for cartridge tape player. 3,485,959, 12-23-69, Cl. 179-100.2
Royston, Alan L.; and Royston, Brian E. Electrically heated soldering apparatus. 3,422,247, 1-14-69, Cl. 219-230.
Royston, Brian E.: *See—*
Royston, Alan L.; and Royston, Brian E.,3,422,247.
Royston, Charlie A., Jr., to Airotec, Inc. Solar shade apparatus with splicing means. 3,438,167, 4-15-69, Cl. 52-473.
Royston, John H.: *See—*
Tracey, Burke A.; and Royston, John H.,3,438,048.
Royston, William C. Racing game apparatus with magnetically controlled selector drum. 3,462,152, 8-19-69, Cl. 273-134.
Roystoys Inc.: *See—*
Edwards, Le Roy B., 3,441,278.
Roza, Jorge E., to Gulf General Atomic Incorporated. Impedance matching system. 3,443,231, 5-6-69, Cl. 325-174.
Rozanski, Henry A., to Wiley Manufacturing Company. Locking dog assembly for hatch covers and hydraulic system for automatically controlling locking dog assembly and hatch cover panels. 3,472,194, 10-14-69, Cl. 114-203.
Roze, Michel: *See—*
Rouge, Pierre; Roze, Michel; and Vivien, Jean,3,425,908.
Rozental, Nikolai Konstantinovich: *See—*
Ivakin, Boris Fedorovich; Vavilov, Igor Konstantinovich; Rozental, Nikolai Konstantinovich; and Roizen, Vladimir Zinovievich,3,448,418.
Rozett, Robert: *See—*
Orgen, Donald E.; Prince, Arthur E., Jr.; and Rozett, Robert,3,481,984.
Rozgonyi, George A., to Bell Telephone Laboratories, Incorporated. Preparation of thin films of vanadium dioxide. 3,483,110, 12-9-69, Cl. 204-192.
Rozgonyi, George A.: *See—*
Polito, William J.; and Rozgonyi, George A.,3,420,763.
Rozie, Maurice; and Desire, Pierre, to Progil. Process for recovery and use of sulfur dioxide. 3,431,072, 3-4-69, Cl. 23-165.
Rozmus, Walter J., to Utica Tool Company, Inc., mesne. Strap tensioning and locking tool. 3,438,406, 4-15-69, Cl. 140-93.2
Rozniecki, Edward J.: *See—*
Thompson, Lionel D.; and Rozniecki, Edward J.,3,442,456.
RTE Corporation: *See—*
Forecki, Harry, 3,461,011.
Link, Edwin A., 3,461,419.
Ruano, William J.: *See—*
Hough, Dean R., 3,478,582.
Ruaud, Michel: *See—*
Christen, Gilbert Paul; and Ruaud, Michel,3,438,954.
Rubacky, Eugene P.: *See—*
Philpitt, Richard F.; and Rubacky, Eugene P.; said,3,426,137.
Rubbermaid Incorporated: *See—*
Podwalny, Sergey Gary, 3,482,730.
Taylor, William D., 3,439,967.
Taylor, William D., 3,442,395.
Taylor, William D., 3,465,892.
Rubega, Robert A.; and Cary, Boyd B., to General Dynamics Corporation. Sonar system. 3,444,509, 5-13-69, Cl. 340-3.
Rubel, Jay E., to Atlantic Company. Bagging machine. 3,468,100, 9-23-69, Cl. 53-189.
Rubel, Peter A., to Cabot Corporation. Polymeric welding process and apparatus. 3,455,761, 7-15-69, Cl. 156-294.
Rubel, Werner: *See—*
Waldhuter, Werner; Rubel, Werner; and Clough, Graham,3,461,069.
Ruben, Paul L., to Eastman Kodak Company. Triplet-type objective lens. 3,438,696, 4-15-69, Cl. 350-226.

Ruben, Paul L., to Eastman Kodak Company. Triplet-type objective lens. 3,443,863, 5-13-69, Cl. 350-226.
Ruben, Paul L., to Minnesota Mining and Manufacturing Company. Symmetrical projection lens. 3,449,040, 6-10-69, Cl. 350-209.
Ruben, Paul L., to Eastman Kodak Company. Four element triplet photographic objective. 3,466,114, 9-9-69, Cl. 350-206.
Ruben, Paul L., to Eastman Kodak Company. Four component wide aperture lens. 3,466,115, 9-9-69, Cl. 350-220.
Ruben, Paul L., to Eastman Kodak Company. Four element triplet projection lens. 3,466,118, 9-9-69, Cl. 350-227.
Ruben, Samuel. Method of making rechargeable cell having ionically permeable gel and electrode therefor. 3,455,738, 7-15-69, Cl. 136-6.
Ruben, Samuel. Electric current producting cell. 3,485,672, 12-23-69, Cl. 136-24.
Ruben, Samuel. Electric current producing cell having depolarizer in intimate contact with carburized surface of the container. 3,485,675, 12-23-69, Cl. 136-83.
Ruben, Samuel. Incandescent lamp. 3,486,063, 12-23-69, Cl. 313-222.
Ruben, Samuel. Storage battery having a positive electrode comprising a supporting base of titanium nitride having a surface film of non-polarizing material. 3,486,940, 12-30-69, Cl. 136-26.
Rubenstein, Albert M. Apparatus for the conversion of solar energy to electrical energy. 3,462,310, 8-19-69, Cl. 136-89.
Rubenstein, David, to Chem Stress Industries, Inc. In-place repairs for concrete irrigation pipe. 3,424,203, 1-28-69, Cl. 138-98.
Rubenstein, Irving H.: *See—*
Mitchell, Orville; Rubenstein, Irving H.; Roden, Richard L.; and Johnson, Russell L.,3,470,706.
Rubenstein, Martin S.: *See—*
Faust, John W., Jr.; John, Harold F.; and Rubenstein, Martin S.,3,447,976.
Ruberoid Co., The: *See—*
Beyard, Romayne M.; and Horai, John C., 3,420,690.
Rubets, Vladimir Gavrilovich: *See—*
Bazhenov, Petr Dmitrievich; Orekhanov, Voleslav Zakharovich; Rubets, Vladimir Gavrilovich; and Failkovsky, Vladimir Ivanovich,3,486,437.
Rubi, Gustav Ernst: *See—*
Herold, Wilhelm Hans; and Rubi, Gustav Ernst,3,446,233.
Rubick, John S.: *See—*
Gabrielson, Dannie B; and Rubick, John S.,3,452,838.
Rubico, Jerome A.: *See—*
Batchelder, Charles E.; and Rubico, Jerome A.,3,474,478.
Batchelder, Charles F.; and Rubico, Jerome A.,3,443,288.
Snow, Henry R.; and Rubico, Jerome A.,3,419,929.
Rubin, Charles P., to TRW, Inc. Deployable boom. 3,434,254, 3-25-69, Cl. 52-108.
Rubin, Ernst Arne: *See—*
Lundin, Eric Gustaf; and Rubin, Ernst Arne,3,433,359.
Rubin, Frank F. Nasal osteotome. 3,467,100, 9-16-69, Cl. 128-305.
Rubin, George H. Snow thrower with flexible arc deflector. 3,466,767, 9-16-69, Cl. 37-43.
Rubin, Gotthard G. Rotary piston external combustion engine. 3,426,525, 2-11-69, Cl. 60-24.
Rubin, Irving; and Jimenez, Ivan. Mounting means for rifle telescopic sights. 3,463,430, 8-26-69, Cl. 248-205.
Rubin, Jack Alvin; and Gdula, Robert Anthony, to Interpace Corporation. Refractory resistant to molten aluminum. 3,471,306, 10-7-69, Cl. 106-63.
Rubin, Jack: *See—*
Buell, Heinz; and Rubin, Jack,3,430,238.
Buell, Heinz; Fiore, John M.; Marino, Louis S.; and Rubin, Jack,3,430,239.
Buell, Heinz; Gannon, Joseph A.; and Rubin, Jack,3,432,856.
Rubin, Jacob C.: *See—*
Meyers, John J.; Martin, Lawrence R.; and Rubin, Jacob C.,3,464,562.
Rubin, James M. Orthodontic face bow with improved arch wire connector. 3,429,044, 2-25-69, Cl. 32-14.
Rubin, James M. Orthodontic method and apparatus. 3,438,132, 4-15-69, Cl. 32-14.
Rubin, James M. Intermaxallary hook. 3,453,734, 7-8-69, Cl. 32-14.
Rubin, James M. Orthodontic apparatus. 3,477,129, 11-11-69, Cl. 32-14.
Rubin, Jerry J.; and Van Uitert, Le Grand G., to Bell Telephone Laboratories, Incorporated. Iridium crucibles and technique for extending the lifetime by coating with zirconium or zirconium oxide. 3,470,017, 9-30-69, Cl. 117-105.2
Rubin, Julius, to Thermice Corporation. Method and apparatus for quick freezing individual food items. 3,446,030, 5-27-69, Cl. 62-63.
Rubin, Leonard R., to Engelhard Industries, Inc. Seal for thin tubing. 3,437,357, 4-8-69, Cl. 285-55.
Rubin, Michael: *See—*
Kam, George H.; and Rubin, Michael,3,428,909.
Rubin, Norman N., to United States of America, Navy. Amplifying light conducting conduit with light passage interrupting means. 3,449,581, 6-10-69, Cl. 250-213.
Rubin, Norman S. Vehicle solid state alarm system. 3,422,398, 1-14-69, Cl. 340-63.
Rubin, Saul. Supporting structure for a chair or the like. 3,438,606, 4-15-69, Cl. 248-415.
Rubin, Sylvan: *See—*
Softky, Sheldon D.; Taimuty, Samuel I.; and Rubin, Sylvan,3,475,610.
Rubinchik, Mira Abramovna: *See—*
Ilinskaya, Tamara Nikolaevna; Kuzovkov, Alexandr Dmitrievich; Vichkanova, Serafima Alexandrovna; Rubinchik, Mira Abramovna; Tolstykh, Ljudmila Petrovna; and Aleshkina, Yanina Adolfovna,3,464,975.
Rubinfeld, Joseph; and Ouw, Willem Bian Gwan, to Colgate-Palmolive Company. Alkene sulfonation process and products. 3,428,654, 2-18-69, Cl. 260-327.
Rubinfeld, Joseph: *See—*
Levinsky, Henry Leon; and Rubinfeld, Joseph,3,462,525.
Rubino, Andrew M.: *See—*
Jones, John L.; and Rubino, Andrew M.,3,420,932.
Jones, John L.; and Rubino, Andrew M.,3,472,929.
Rubinstein, Charles B., to Bell Telephone Laboratories, Incorporated. Optical pulse generator. 3,430,048, 2-25-69, Cl. 250-199.
Rubinstein, Harvey: *See—*
Cohler, Edmund U.; and Rubinstein, Harvey,3,453,607.
Cohler, Edmund U.; and Rubinstein, Harvey,3,465,305.
Rubinstein, Richard I.: *See—*
Cevallos, William H.; Holmes, William L.; and Rubinstein, Richard I.,3,467,749.
Rubisch, Ottmar, to Sigri Elektrographit GmbH. Body of industrial carbon with an oxidation inhibiting coating, and method of producing such bodies. 3,459,583, 8-5-69, Cl. 117-70.
Rubl, Wilhelm: *See—*
Gunther, Norbert; Schreiber, Otto; Rubl, Wilhelm; and Griebisch, Otto,3,436,150.
Rublack, Wilfred D., to General Electric Company. In-line plural beam cathode ray tube with an aspherical aperture mask. 3,435,268, 3-25-69, Cl. 313-70.
Ruble, Harold P.: *See—*
White, David B.; and Ruble, Harold P.,3,484,133.
Rubler, Jerome: *See—*
Cooper, Bernard William; and Rubler, Jerome,3,435,511.
Rubner, Tibor: *See—*
Dougan, Roger R.; Thompson, Francis T.; and Rubner, Tibor,3,444,324.
Rubricius, Jeanette L., to Le Veen, Harry H. Method for controlling the coagulation of blood by administering epsilon amino caprioc acid and heparin. 3,457,347, 7-22-69, Cl. 424-183.
Rubsamen, Erich: *See—*
Berges, Arnold; Wehling, Karl; Rubsamen, Erich; and Wehling, Karl,3,465,282.
Ruby Industries, Inc.: *See—*
McGall, Lloyd A., 3,435,740.
Ruby, Joe H., to Bell Telephone Laboratories, Incorporated. Bandpass voltage amplifier. 3,466,559, 9-9-69, Cl. 330-28.
Ruch, Herbert, to Dolomit-Werke G.m.b.H. Burner projecting into a rotary kiln. 3,456,934, 7-22-69, Cl. 263-33.
Ruchardt, Christoph Johannes, to Elektrochemische Werke Munchen A. G. Novel organic peresters and process therefor. 3,435,060, 3-25-69, Cl. 260-453.
Ruchardt, Hugo; Hargasser, Hans; and Meer, Winfried, to Siemens Aktiengesellschaft. Transistor for operation in regulating circuits with emitter base junction of sawtooth, concave, or wedge shape configuration. 3,480,845, 11-25-69, Cl. 317-234.
Ruchser, Erich, to Herion, Erich. Fluid-pressure valve. 3,424,427, 1-28-69, Cl. 251-30.
Rucins, Erik H.; and Guernsey, Robert W., to General Motors Corporation. Internal combustion engine ignition spark vacuum advance mechanism delay system. 3,476,094, 11-4-69, Cl. 123-117.1
Ruckborn, Gunther, to Linde Aktiengesellschaft. Process and installation for the removal of easily condensable components from gas mixtures. 3,466,884, 9-16-69, Cl. 62-13.
Ruckborn, Gunther; Donhauser, Friedl; and Huber, Johann, to Linde Aktiengesellschaft. Double-flow regenerator. 3,429,135, 2-25-69, Cl. 62-13.
Ruckel, Frank G.; and Fox, David, to Alarm Lock Corporation. Jam resistant door lock. 3,464,728, 9-2-69, Cl. 292-92.
Rucker Company, The: *See—*
Collier, Donald C., 3,439,372.
Kirchmier, William O., 3,463,178.
Ruckert, Hans, to Azoplate Corporation, mesne. Reprographic copying composition and reprographic copying material prepared therewith. 3,455,914, 7-15-69, Cl. 260-240.
Rucki, George: *See—*
Du Bois, Richard, Jr.; and Rucki, George;,3,481,062.
Ruckstuhl, Jakob E., to Terlinden & Company. Raised warp knit fabrics. 3,475,926, 11-4-69, Cl. 66-194.
Rucoba, Robert; and Sievert, William C., to Inland Steel Company. Chemical treatment of metal surface to improve paint adherence. 3,445,298, 5-20-69, Cl. 148-6.16

Ruda, Joseph C.: *See—*
Reynolds, Wilbur F.; Ruda, Joseph C.; and Marzani, Bruno W., Jr.,3,465,633.
Rudakov, May Mikhailovich: *See—*
Konovalov, Vladimir Pavlovich; Krylov, Nickolai Ivanovich; Popov, Boris Vasilievich; and Rudakov, May Mikhailovich,3,466,961.
Rudas Theatrical Organisation Pty., Ltd.: *See—*
Rudas, Tibor, 3,442,508.
Rudas, Tibor, to Rudas Theatrical Organisation Pty., Ltd. Theatrical stage setting for combining motion pictures and live action. 3,442,508, 5-6-69, Cl. 272-21.
Rudaz, Albi, to Societe Anonyme des Ateliers de Secheron. Device for the feed of an electric arc welding set from three-phase current. 3,463,903, 8-26-69, Cl. 219-131.
Rudd, Charles F.; and Obergefell, Ronald F., to Addressograph-Multigraph Corporation. Selector switch mechanism. 3,430,010, 2-25-69, Cl. 200-46.
Rudd, Milo O.; and Woronoff, Alexander M., to Univis, Inc. Method for processing of ophthalmic lens. 3,431,688, 3-11-69, Cl. 51-284.
Rudd, Wallace C., to American Machine & Foundry Company. Welding metal parts. 3,427,427, 2-11-69, Cl. 219-107.
Rudd, Wallace C.: *See—*
Morris, Jack; Yuter, Morton Gerald; Rudd, Wallace C.; and Allen, Richard J., Jr.,3,420,976.
Rudd-Melikian, Inc.: *See—*
Bode, Charles Herbert, 3,439,717.
Ruddell, James N.: *See—*
Spencer-Smith, John L.; and Ruddell, James N.,3,436,904.
Ruddick, Maurice, to Burnett & Rolfe Limited. Tipplers for turning over beer kegs and like containers. 3,433,371, 3-18-69, Cl. 214-1.
Ruddick, Maurice, to Burnett & Rolfe Limited. Apparatus for processing beer kegs or like containers. 3,454,018, 7-8-69, Cl. 134-57.
Ruddick, Maurice, to Burnett & Rolfe Limited. Apparatus for washing beer kegs or like containers. 3,470,891, 10-7-69, Cl. 134-57.
Ruddock, Kenneth A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,208.
Ruddock, Kenneth A., to Spectra-Physics, Inc. Optical ranging system using a beat frequency responsive photomultiplier. 3,446,971, 5-27-69, Cl. 250-207.
Rudduck, Roger C.; and Wang, Johnson J. H., to Ohio State University Research Foundation, The. Metallic-post reflecting walls. 3,466,653, 9-9-69, Cl. 343-18.
Ruden, Thomas E., to Raytheon Company. Crossed field microwave rectifier. 3,479,577, 11-18-69, Cl. 321-8.
Ruder, Winfield S.: *See—*
Harding, William E.; Perri, John A.; Riseman, Jacob; and Ruder, Winfield S.,3,449,049.
Rudert, Wolfgang, to Daimler-Benz Aktiengesellschaft. Valve control mechanism for an internal combustion piston engine. 3,428,032, 2-18-69, Cl. 123-90.
Rudestedt, Sven Jan Einar: *See—*
Polasek, Karl Hans; Rudestedt, Sven Jan Einar; and Umblia, Elmar Johannes,3,420,777.
Rudiak, George: *See—*
Woodruff, Stanley Ray, 3,472,415.
Rudiger, Albrecht: *See—*
Billing, Heinz; Rudiger, Albrecht; and Gundlach, Karl-Heinz,3,432,817.
Rudiger, Christian: *See—*
Leisinger, Karl-Friedrich; and Rudiger, Christian,3,424,924.
Rudiger, John, to Seidensticker, W. J., Company, The. Bridge overhang bracket. 3,472,475, 10-14-69, Cl. 248-228.
Rudin, Harry R., Jr.: *See—*
Becker, Floyd K.; and Rudin, Harry R., Jr.,3,466,538.
Rudinger, Josef; and Jost, Karel, to Ceskoslovenska akademie ved. Analogues of cyclic peptides containing disulfide bonds without disulfide bonds. 3,446,789, 5-27-69, Cl. 260-112.5
Rudisch, Walter E.; and Gross, Frank D., to Pannier Corporation, The. Embossing machine. 3,441,824, 4-29-69, Cl. 318-265.
Rudkin, Frank, to Lake & Elliot Limited. Hydraulic lifting jack. 3,464,204, 9-2-69, Cl. 60-52.
Rudkovsky, David Moiseevich; and Imjanitov, Naum Oolomonovich, to Vsesojuzny Nauchno-Issledovateljsky Institute Neftekhimicheskikh Protsessov. Method of production of unsaturated acids. 3,462,481, 8-19-69, Cl. 260-514.
Rudkovsky, David Moiseevich; and Imjanitov, Naum Solomovich, to Vsesojuzny Nauchno-Issledovateljsky Institute Neftekhimicheskikh Protesessov. Method of preparing dicarboxylic acids. 3,481,975, 12-2-69, Cl. 260-533.
Rudloff, Bernard. Process for pneumatically tearing and parting fiber flocks. 3,453,355, 7-1-69, Cl. 264-115.
Rudner, Bernard; and Brumfield, Philip E., to Koppers Company, Inc. Polybenzothiazoles. 3,424,720, 1-28-69, Cl. 260-47.
Rudnick, Gerald L.; and Haluch, Leonard M., to Productive Equipment Corporation. Vibratory finishing device with loading and discharge means. 3,447,269, 6-3-69, Cl. 51-163.
Rudnick, Norman, to Gulton Industries, Inc. Piezoelectric ceramic transducer. 3,474,268, 10-21-69, Cl. 310-8.5
Rudnitzki, Alexis J.; and Templer, David I., to Velsicol Chemical Corporation. Separation of tetrachloroterephthalic acid derivatives. 3,478,086, 11-11-69, Cl. 260-475.
Rudo, Edward; Gerstein, Sidney; and Smith, Robert G. Device for automatically diverting telephone calls. 3,445,604, 5-20-69, Cl. 179-18.
Rudolph, Curtis C., 1/2 to Burk, James C. Crosslane buffing machine. 3,428,986, 2-25-69, Cl. 15-99.
Rudolph, Faucette S. Animal trap. 3,426,470, 2-11-69, Cl. 43-61.
Rudolph, Hans: *See—*
Hermann, Karl Heinz; and Rudolph, Hans,3,477,986.
Rudolph, Hans; Heller, Karl-Heinz; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Photochemically hardenable moulding and coating masses. 3,450,612, 6-17-69, Cl. 204-159.15
Rudolph, Hans; and Prater, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Additives for preventing the flow of polyester moulding and coating compositions. 3,484,401, 12-16-69, Cl. 260-22.
Rudolph, Luther D.; Blackwell, Paul K., Jr.; and Hair, Hugh A., to Research Corporation. High-speed non-destructive read out contents addressable memory and elements therefor. 3,445,821, 5-20-69, Cl. 340-172.5
Rudolph, Martin: *See—*
Armbruster, Fritz; and Rudolph, Martin,3,479,421.
Rudolph, Otfried, to VEB Druckmaschinenwerk Planeta. Sheet gripping control mechanism for printing machines. 3,463,484, 8-26-69, Cl. 271-82.
Rudolph, Otfried; and Lucius, Gunter, to VEB Druckmaschinenwerk Planeta. Drive mechanism for sheet turning device in multi-color printing machines. 3,455,547, 7-15-69, Cl. 271-82.
Rudomanski, Andrew C.; and Eufusia, Eugene A., to Optical Coating Laboratory, Inc. Optical null spectrophotometer. 3,437,411, 4-8-69, Cl. 356-89.
Rudomanski, Andrew C.: *See—*
Horan, John J.; and Rudomanski, Andrew C.,3,487,213.
Rudszinat, Willy: *See—*
Kochalski, Horst; Rudszinat, Willy; Suck, Hans; Rode, Ludwig; David, Harri; and Erdmann, Otto,3,481,447.
Rudy, Charles E., Jr., to Chevron Research Company. Removal of iron contaminants from hydrocarbon oils. 3,436,339, 4-1-69, Cl. 208-252.
Rudy, Erland W., to Bendix Corporation, The. Circuit for supplying writing signals for use with electrosensitive paper recorders. 3,441,946, 4-29-69, Cl. 346-74.
Rudy, Erwin, to Schwarzkopf Development Corporation. Heat-shock resistant shaped high temperature metal ceramic bodies. 3,479,155, 11-18-69, Cl. 29-182.7
Rudy Manufacturing Company: *See—*
Collins, William A., 3,440,704.
Rudy, Thomas P.: *See—*
Nakagawa, Thoshio William; and Rudy, Thomas P.,3,427,351.
Rudy, Thomas P.; and Nakagawa, Toshio William, to United Aircraft Corporation. Particulate nitronium perchlorate coated with a complex pyridine salt. 3,442,726, 5-6-69, Cl. 149-7.
Rudy, Thomas P.; Nakagawa, Toshio W.; and Greendorfer, Joseph M., to United Aircraft Corporation. Self-regulating coating process for propellant materials. 3,480,488, 11-25-69, Cl. 149-7.
Rudzik, Allen D., to Dow Chemical Company, The. Method of treating symptoms of pain and inflammation. 3,449,501, 6-10-69, Cl. 424-273.
Rudzik, Allen D., to Dow Chemical Company, The. Analgesic and antitussive methods and compositions employing trans-(L)-3-(o-chlorophenyl)-1,6- dimethyl-5-phenyl-1,4,5,6-tetrahydro-astriazine. 3,485,921, 12-23-69, Cl. 424-249.
Rudzik, Allen D.: *See—*
Wagner, Eugene R.; and Rudzik, Allen D.,3,463,857.
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G., to Viewlex, Inc. Strip film adapter. 3,420,464, 1-7-69, Cl. 242-71.1
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G., to Viewlex, Inc. Film strip adapter. 3,476,475, 11-4-69, Cl. 353-120.
Rudzitis, Karl: *See—*
Mindell, Marvin; and Rudzitis, Karl,3,480,282.
Rue, Charles V.: *See—*
Kistler, Samuel S.; and Rue, Charles V.,3,427,759.
Kistler, Samuel S.; and Rue, Charles V.,3,481,723.
Rue, Howard M., to Sun Oil Company. Aluminum rolling oil. 3,459,663, 8-5-69, Cl. 252-46.7
Rue, Larry M.; Brunelle, Thomas E.; and Mizuno, William G., to Economics Laboratory, Inc. Surface active agents. 3,444,242, 5-13-69, Cl. 260-611.
Rue, Robert W., to General Signal Corporation. Hydraulically operated power steering circuit. 3,463,187, 8-26-69, Cl. 137-596.
Rueckl, Roger L.: *See—*
Barnhart, Thomas F.; and Rueckl, Roger L.,3,469,961.
Rueger, Herman, to AMP, Incorporated. Housing for indicating lamp or other electrical components. 3,434,137, 3-18-69, Cl. 340-381.
Ruegg, Rudolf; and Schmialek, Peter, to Hoffmann-La Roche Inc. Method of hindering the metamorphosis and reproduction of arthropodes. 3,429,970, 2-25-69, Cl. 424-333.

Ruegg, Rudolf; and Schwieter, Ulrich, to Hoffmann-La Roche, Inc. Process for making the triaryl phosphonium salt of vitamin A alcohol. 3,466,335, 9-9-69, Cl. 260-606.5

Ruegg, Rudolf: *See*—
Mayer, Hans J.; Ruegg, Rudolf; and Schudel, Peter,3,455,959.

Ruegsegger, Walter. Skier training apparatus which allows for transverse and longitudinal movement. 3,475,021, 10-28-69, Cl. 272-57.

Ruehl, Donald E., to Holophane Company, Inc. Refractor. 3,466,437, 9-9-69, Cl. 240-106.

Ruehl, Rudolf, to Leitz, Ernst, G.m.b.H. Photo lens with a short focal length and larger back intercept focal length. 3,467,464, 9-16-69, Cl. 350-216.

Ruehlemann, Herbert E.: *See*—
Krum, Alan; Ruehlemann, Herbert E.; and Scheingold, William S.,3,474,387.

Ruekberg, Herbert S., to Continental Can Company, Inc. Method of producing collapsible plastic liner and assembling liner to aerosol container. 3,423,818, 1-28-69, Cl. 29-451.

Ruekberg, Herbert S., to Continental Can Company, Inc. Tandem blow molding apparatus. 3,456,290, 7-22-69, Cl. 18-5.

Ruekberg, Herbert S., to Continental Can Company, Inc. Apparatus for electrostatic molding. 3,478,387, 11-18-69, Cl. 18-5.

Ruelius, Hans W.: *See*—
Greenspan, George; Ruelius, Hans W.; and Alburn, Harvey E.,3,453,179.

Ruempelein, Fritz, to Agfa Aktiengesellschaft. Electrical core-magnet measuring instrument. 3,479,595, 11-18-69, Cl. 324-151.

Ruesch, Leo: *See*—
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav,3,478,022.

Rueth, Joseph F.; and Urian, Charles A., to Budd Company, The. Air conditioning vaporizer. 3,434,300, 3-25-69, Cl. 62-309.

Ruetimeyer, Bernhard: *See*—
Stahel, Peter; Wegmann, Jacques; and Ruetimeyer, Bernhard,3,424,543.

Ruetschi, Paul, to Leclanche S.A. Hermetically enclosed galvanic microelement. 3,423,645, 1-21-69, Cl. 317-230.

Ruetschle, Rudolph H., to Harris-Intertype Corporation. Sheet separator mechanism. 3,471,141, 10-7-69, Cl. 271-26.

Ruf, Josef, to Maschinenfabrik Memmingen Ing. Theodor Otto. Winding machine for cross wound bobbin. 3,467,326, 9-16-69, Cl. 242-43.

Ruf, Peter: *See*—
Forster, Ewald; Porret, Daniel; and Ruf, Peter,3,483,168.

Ruf, Walter. Mount for light guns. 3,424,052, 1-28-69, Cl. 89-37.

Ruf, Walter: *See*—
Titchenal, Oliver R.; Jark, Fred; Coombes, William S.; and Ruf, Walter,3,465,876.

Ruff, Harold R.: *See*—
Privett, Herbert L.; and Ruff, Harold R.,3,463,964.

Ruff, John D.; and Wheeler, Phillip R. Variable capacity centrifugal heat pump. 3,447,335, 6-3-69, Cl. 62-159.

Ruff, John D.; and Wheeler, Phillip R. Centrifugal compressor and wide range of capacity variation. 3,449,922, 6-17-69, Cl. 62-160.

Ruff, Robert Bernard, to Du Pont de Nemours, E. I., and Company. Process for composite color image reproduction by stratum transfer. 3,481,736, 12-2-69, Cl. 96-28.

Ruff, Wolfram; and Boucher, Heinz, to Alfred Teves Maschinen- und Armaturenfabrik K. G. Method of electroplating a bright, adherent chromium coating onto cast-iron. 3,421,986, 1-14-69, Cl. 204-36.

Ruff, Wolfram; and Boucher, Heinz, to Teves, Alfred, KG. Electrolyte and process for the electrodeposition of cadmium. 3,442,776, 5-6-69, Cl. 204-50.

Rufficux, Leon, to Aktiengesellschaft Brown, Boveri & Cie. Parallel switching device. 3,428,821, 2-18-69, Cl. 307-87.

Ruffing, Alphonse P., to Berg Equipment Corporation. Cattle feeding system. 3,422,799, 1-21-69, Cl. 119-56.

Ruffles, Philip Charles; and Williamson, Douglas Herbert, to Rolls-Royce Limited. Gas turbine engine with pressure exchanger. 3,483,697, 12-16-69, Cl. 60-39.45

Ruffley, Morris F., Jr., to Coca-Cola Bottling Works Company, The. Rack for cylindrical containers. 3,436,093, 4-1-69, Cl. 280-47.27

Ruffner, Lawrence J., to Erie Technological Products, Inc. Capacitor with terminal means. 3,467,898, 9-16-69, Cl. 317-258.

Ruffo, Angelo P., to Johnson & Johnson. Corrugated Diaper. 3,481,337, 12-2-69, Cl. 128-284.

Rufli, Anton, to Inventio Aktiengesellschaft. Jolt-free starting arrangement for electrical drive having a mechanical brake. 3,486,101, 12-23-69, Cl. 318-431.

Ruger, Frank; Guhne, Hans-Peter; and Lebig, Herbert, to Daimler-Benz Aktiengesellschaft. Internal combustion engine in which cooling medium is supplied from a primary cooling installation for the engine cooling to a secondary cooling installation for the precompressed combustion air. 3,442,258, 5-6-69, Cl. 123-41.31

Ruger, George A.: *See*—
Hood, R. T., Jr.; Ruger, George A.; and Messick, Thomas M.,3,437,280.

Ruger, William B., to Sturm, Ruger & Co., Inc. Gun receiver-barrel-stock combination. 3,444,641, 5-20-69, Cl. 42-75.

Rugg, E. T., Company, The: *See*—
Grobowski, Ben T., 3,464,282.

Rugg, Gordon R., to GAF Corporation. Method for making covering materials incorporating foamed resin material and product thereof. 3,458,337, 7-29-69, Cl. 117-15.

Ruggen, Werner. Disc coupling operated by fluid pressure. 3,441,110, 4-29-69, Cl. 188-170.

Ruggieri, Dominic J.: *See*—
Sowers, Hal L.; Ruggieri, Dominic J.; and Balkwill, John T.,3,458,744.

Ruggiero, Edward M., to Texas Instruments, Incorporated. Ohmic contacts consisting of a first level of molybdenum-gold mixture of gold and vanadium and a second level of molybdenum-gold. 3,434,020, 3-18-69, Cl. 317-235.

Ruggiero, Edward M., to United Aircraft Corporation. Method for bonding silicon semiconductor devices. 3,461,462, 8-12-69, Cl. 29-492.

Ruggles, Kay L.; Gunnerson, Dale B.; and Clark, Howard S., to American Standard, Inc., mesne. Method for manufacturing a sink and vanity top combination. 3,433,860, 3-18-69, Cl. 264-71.

Ruggles, Norman A.; and Kaplan, Irving I., to Westinghouse Electric Corporation. Contiguous filter bank using shared resonators. 3,461,407, 8-12-69, Cl. 333-6.

Ruh, Edwin: *See*—
Fanning, Fred H., Jr.; and Ruh, Edwin,3,438,616.

Ruhe, Jochen: *See*—
Winkler, Otto; Reisinger, Helmut; and Ruhe, Jochen,3,457,655.

Ruhl, Charles A. L., to International Harvester Company. Pilot unloading hydraulic circuit. 3,443,483, 5-13-69, Cl. 91-418.

Ruhl, Edward A.: *See*—
Haas, Robert G.; and Ruhl, Edward A.,3,473,015.

Ruhl, Horst: *See*—
Hummel, Raymond J.; and Ruhl, Horst,3,431,561.

Ruhle, Hans; and Ebertz, Helmut, to Zeiss Ikon Aktiengesellschaft. Direct-viewfinder. 3,433,141, 3-18-69, Cl. 95-11.

Ruhle, Hans; Schottle, Ulrich; Thiele, Heinz; Schwahn, Josef; and Ritze, Arno, to Zeiss Ikon Aktiengesellschaft. Photometer with photoelectric transformer. 3,452,656, 7-1-69, Cl. 95-10.

Ruhm, Hans-Georg: *See*—
Schiffer, Gunther; and Ruhm, Hans-Georg,3,465,551.

Ruhnau, Joachim, to Kunstsloff-Verfahrenstechnik Isernhagen HB GmbH & Co. KG. High pressure injector and system for pressurizing ingredients. 3,481,587, 12-2-69, Cl. 259-98.

Ruhnke, Lothar H., to Litton Systems, Inc. Apparatus for measuring the potential gradient in the atmosphere. 3,426,280, 2-4-69, Cl. 325-113.

Ruhrchemie Akiengesellschaft: *See*—
Tummes, Hans; and Meis, Josef, 3,462,500.

Ruhrchemie Aktiengesellschaft: *See*—
Gothel, Herbert; and Feichtinger, Hans, 3,444,081.
Noeske, Heinz; Feichtinger, Hans; and Linden, Hanswerner, 3,444,132.
Tummes, Hans; and Meis, Josef, 3,426,080.

Ruhroel Chemiewerk der Steinkohlenbergwerke Mathias Stinnes Aktiengesellschaft: *See*—
Ernst, Otto; Neubold, Kurt; Ibing, Guenther; and Kugler, Fritz, 3,470,132.

Ruidisch, Louis E.: *See*—
Kivelevich, Doris; and Ruidisch, Louis E.,3,429,812.

Ruina, Irving. Folding indoor clothes dryer. 3,437,213, 4-8-69, Cl. 211-1.3

Ruiz, Carl P.; Rider, Benjamin F.; and Gerhart, James M., to General Electric Company. Radioisotope processing. 3,459,634, 8-5-69, Cl. 176-16.

Ruiz, Joseph J., to Basic Incorporated. Shaft kiln discharging mechanism. 3,472,422, 10-14-69, Cl. 222-1.

Ruiz, Oscar F. Apparatus for separating tortillas and the like from forming roll. 3,429,282, 2-25-69, Cl. 107-12.

Ruiz, Oscar F. Article handling and positioning apparatus. 3,440,974, 4-29-69, Cl. 107-12.

Ruiz, Oscar F. Dough perforating machine. 3,451,358, 6-24-69, Cl. 107-15.

Ruiz, Oscar F. Dough directing funnel. 3,467,030, 9-16-69, Cl. 107-9.

Rukhadze, Vilgeny Alexandrovich: *See*—
Daruk, Anany Stanislavovich; and Rukhadze, Vilgeny Alexandrovich,3,472,257.

Ruland, Wilhelm: *See*—
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef,3,484,789.

Rule, Edwin L., to Hexcel Corporation. Method and apparatus for making corrugated material structure. 3,470,053, 9-30-69, Cl. 156-207.

Rule, Robert D.; and Ness, Warren C., to Rockford Servo Corporation. Fluidic sensing apparatus. 3,470,733, 10-7-69, Cl. 73-37.5

Rule, Robert D.: *See*—
Ness, Warren C.; and Rule, Robert D.,3,472,374.

Ruleta Company, Inc., The: *See—*
Finck, Frederick P., Jr., 3,446,045.
Finck, Frederick P., Jr., 3,478,548.
Rulfs, Charles L.: *See—*
Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L.,3,458,359.
Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L.,3,470,031.
Rulison, Richard N.: *See—*
George, Thomas W.; and Rulison, Richard N.,3,423,925.
Rullgard, Ake: *See—*
Kaipainen, Arto; Rullgard, Ake; Skygge, Carl Gosta; and Sundqvist, Cnut,3,437,557.
Rullier, Robert; and Drouet, Michel, to Compagnie de Saint-Gobain. Method for edge sealing multiple paned glass. 3,473,988, 10-21-69, Cl. 156-107.
Rullo, Gabriel N.: *See—*
Grobman, William; and Rullo, Gabriel N.,3,422,757.
Rulseh, Roger David, to American Machine & Foundry Company. Timer with means for sequential switch operation. 3,452,165, 6-24-69, Cl. 200-39.
Rum, Klaus; and Lingen, Dieter, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of and apparatus for introducing wire into a surface treating chamber. 3,439,851, 4-22-69, Cl. 226-1.
Rum, Thomas J., to Gillette Company, The. Apparatus for processing of strip metal in a continuous manner to remove undesired curvature. 3,466,022, 9-9-69, Cl. 266-3.
Rumanowski, Edmund J.: *See—*
Newallis, Peter E.; and Rumanowski, Edmund J.,3,444,244.
Newallis, Peter E.; and Rumanowski, Edmund J.,3,467,692.
Pierpont, Roger L.; and Rumanowski, Edmund J.,3,468,656.
Rumbarger, John H., to Scully International Corporation, mesne. Self-adjusting hydrostatic leadscrew and nut assembly. 3,448,632, 6-10-69, Cl. 74-424.8
Rumberg, Heinz: *See—*
Von Ardenne, Manfred; Heller, Jurgen; Jager, Gerard; and Rumberg, Heinz,3,457,569.
Rumble, Carl V. Pressure applicator for bonding an article to a thin material. 3,433,699, 3-18-69, Cl. 156-580.
Rumble, Dale H., to International Business Machines Corporation. Data transmission with phase encoding of binary state transitions. 3,467,777, 9-16-69, Cl. 178-67.
Rumbutis, Bernard R.: *See—*
Jackson, Frank H.; and Rumbutis, Bernard R.,3,448,528.
Rummel, Werner, to Siemens Aktiengesellschaft. Method and apparatus for recovering seeding material used with MHD generators. 3,439,195, 4-15-69, Cl. 310-11.
Rummel, William David; and Good, John L. Supplemental lens attachment for spectacles. 3,446,548, 5-27-69, Cl. 351-58.
Rummelsurg, Alfred L., to Hercules Incorporated. Method of preparing tall oil fatty acid compositions. 3,437,650, 4-8-69, Cl. 260-97.5
Rummert, Gunter: *See—*
Reindl, Eugen; and Rummert, Gunter,3,471,593.
Rump, Leif, to Haldor Frederik Axel Topsoe. Heating element for electric cable furnaces for heating a flow of gas or liquid. 3,474,229, 10-21-69, Cl. 219-552.
Rumpf, Jurg: *See—*
Knusli, Enrico; and Rumpf, Jurg,3,429,881.
Rumpf, Paul; and Thuiller, Germaine, born Nachmias, to Centre National de la Recherche Scientifique. Method and composition for inducing local anesthesia with mono-(beta-diethylaminoethyl) amide of parachlorophenoxyacetic acid. 3,448,196, 6-3-69, Cl. 424-324.
Rumpf, Paul; Thuillier, Jean-Eugene; and Chuillier, Germaine, born Nachmias, to Centre National de la Recherche Scientifique. Derivative of phenylbutazone. 3,457,273, 7-22-69, Cl. 260-311.
Rumsey, David R.: *See—*
Johnston, William P., Jr., 3,443,460.
Rumsey, John W.: *See—*
White, James L., 3,429,607.
Rumsey, Jose F., Jr. Combined ashtray and deodorant container. 3,445,865, 5-27-69, Cl. 4-109.
Rumsey, Joseph F., Jr. Apparatus for deodorizing or treating clothes in a clothes drier. 3,435,537, 4-1-69, Cl. 34-72.
Rumsey, Kenneth George; and Greasby, Michael John, to Exchange Telegraph Company Limited, The. Control circuitry for matrix printer. 3,461,236, 8-12-69, Cl. 178-30.
Rumsey, Norman J., to New Zealand Government Property Corporation. Telescopic system utilizing three axially aligned substantially hyperbolic mirrors. 3,460,886, 8-12-69, Cl. 350-294.
Rumsey, Rollin Douglas, to Houdaille Industries, Inc. Non-scoring hydrodynamically balanced buffer piston. 3,426,655, 2-11-69, Cl. 92-183.
Rumsey, Rollin Douglas, to Houdaille Industries, Inc. Attachment of vanes to hydraulic rotary actuator wingshafts. 3,444,790, 5-20-69, Cl. 92-125.
Rumsey, Rollin Douglas, to Houdaille Industries, Inc. Hollow-piston actuators. 3,451,315, 6-24-69, Cl. 92-118.
Rumsey, Rollin Douglas, to Houdaille Industries, Inc. Tuned viscous vibration dampers. 3,462,136, 8-19-69, Cl. 267-1.
Rumsey, Rollin Douglas; and King, Robert E., to Houdaille Industries, Inc. Shimmy damper for aircraft dual nosewheels. 3,424,406, 1-28-69, Cl. 244-103.
Runceanu, Gheorghe: *See—*
Luca, Vasile; Runceanu, Gheorghe; Cosmescu, Ctin; and Ionescu, Alexandru,3,428,288.
Runchman, David John: *See—*
Gardner, Brian George; and Runchman, David John,3,468,405.
Runco, Joseph C.: *See—*
Foss, George J.; Runco, Joseph C.; and Roberts, Cecil P.,3,438,174.
Rundell, Theodore W.; and Randall, Freddie D., to Tecumseh Products Company. Compressor construction. 3,476,308, 11-4-69, Cl. 230-58.
Runge, Dietrich: *See—*
Brotz, Walter; Runge, Dietrich; and Albrecht, Manfred Karl Furchtegott,3,442,837.
Runge, Heinz F., to National Dairy Products Corporation. Dispenser. 3,477,614, 11-11-69, Cl. 222-107.
Runge, Richard J., to Chevron Research Company. Vertical resistivity logging by measuring the electric field created by a time-varying magnetic field. 3,479,581, 11-18-69, Cl. 324-6.
Runge, Ronald G. Analog-to-digital converter. 3,469,256, 9-23-69, Cl. 340-347.
Runge, Thomas M. Hyperventilation detecting and warning method. 3,450,130, 6-17-69, Cl. 128-21.
Runge, Wallace F., to Commercial Solvents Corporation. Liquid low-melting eutectic hydroxylammonium acid sulfate composition. 3,487,022, 12-30-69, Cl. 252-188.
Runkle, Dean E., to Bendix Corporation, The. No-lash axially movable steering column. 3,434,368, 3-25-69, Cl. 74-493.
Runkle, Dean E., to Bendix Corporation, The. No-lash axially movable steering column. 3,434,369, 3-25-69, Cl. 74-493.
Runkle, Dean E., to Bendix Corporation, The. No-Lash axially movable steering column. 3,444,753, 5-20-69, Cl. 74-493.
Runkle, Dean E., to Bendix Corporation, The. No-lash axially movable steering column. 3,473,406, 10-21-69, Cl. 74-493.
Runkle, Deane E.; and Baker, Donald J., to Bendix Corporation, The. Failsafe power steering system. 3,463,261, 8-26-69, Cl. 180-79.2
Runkle, Raymond B.: *See—*
Gantz, William A.; Runkle, Raymond B.; and Buchla, Donald F.,3,453,441.
Runnings, Harcourt G. Pivotable wall vent control door with recessed actuator therefor. 3,443,507, 5-13-69, Cl. 98-41.
Runnion, Ace M. Sterilizer cabinet. 3,433,579, 3-18-69, Cl. 23-2.
Runnion, Ernest E.: *See—*
Chapman, Robert E., 3,451,312.
Chapman, Robert E., 3,458,840.
Mitten, Leonard A.; and Chapman, Robert E., 3,442,310.
Mitten, Leonard A., 3,447,578.
Mitten, Leonard A., 3,454,063.
Mitten, Leonard A., 3,457,974.
Runyon, John P.: *See—*
Abert, Charles; Runyon, John P.; and Zarouni, Alfred,3,471,647.
Ruof, Edgar J., to Goodyear Tire & Rubber Company, The. Brake temperature indicating system. 3,454,925, 7-8-69, Cl. 340-57.
Ruof, Edgar J., to Goodyear Tire & Rubber Company, The. Apparatus for detecting the rate of wheel acceleration or deceleration. 3,473,120, 10-14-69, Cl. 324-70.
Ruoff, Carl E.: *See—*
Farber, Arnold S.; and Ruoff, Carl E.,3,461,312.
Kwap, Theodore W.; and Ruoff, Carl E.,3,431,490.
Ruoff, Gordon L., to Dresser Industries, Inc. Gas starting arrangement for two-cycle turbocharged engine. 3,427,802, 2-18-69, Cl. 60-13.
Ruoff, Karl; and Mittermeier, Walter, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Automatic hydraulic driving chain tensioning device. 3,455,178, 7-15-69, Cl. 74-242.11
Ruonavaara, Quentin F.: *See—*
Cole, Berton A.; and Ruonavaara, Quentin F.,3,485,655.
Ruotolo, Michael, to Dynamics Corporation of America. Patchboard programming system. 3,432,801, 3-11-69, Cl. 339-126.
Rupe, Chauncey Orvis, to Miles Laboratories, Inc. Test indicator for the detection of chlorides. 3,447,904, 6-3-69, Cl. 23-230.
Rupert, John G., to Honeywell Inc. Pure fluid control apparatus. 3,474,670, 10-28-69, Cl. 73-194.
Rupert, John P., to Tobacco Research and Development Institute Ltd. Storage bins. 3,426,885, 2-11-69, Cl. 198-57.
Rupert, Kenneth W.: *See—*
Krause, Walter O.; and Rupert, Kenneth W.,3,483,714.
Rupert Manufacturing Company: *See—*
Walby, John W., 3,443,281.
Rupert, Robert E. Musical instrument employing film sound track on cathode ray tube screen. 3,484,530, 12-16-69, Cl. 84-1.18
Rupert, Samuel J., to Hoover Ball and Bearing Company. System utilizing single service container for moving bottles from bottle making machine to destination point for filled bottles. 3,426,500, 2-11-69, Cl. 53-37.

Rupert, Samuel J., to Hoover Ball and Bearing Company. Method of automatically trim finishing blow molded plastic articles. 3,465,931, 9-9-69, Cl. 225-1.
Ruple, Lewis H., to Abbey-Etna Machine Company, The. Cluster roll assembly for tube mills. 3,468,150, 9-23-69, Cl. 72-178.
Rupp, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Copoly -β- amides and process for their manufacture. 3,438,947, 4-15-69, Cl. 260-78.
Rupp, Walter; and Beermann, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of poly-β-amides in a liquid two phase system. 3,462,397, 8-19-69, Cl. 260-78.
Ruppel, Donald B.; and Reinhart, Norman E., to Goodrich, B. F., Company, The. Packaging apparatus. 3,487,421, 12-30-69, Cl. 53-59.
Ruppeneit, Konstantin Vladimirovich; Prigozhin, Evgeny Semenovich; and Perkov, Jury Rodionovich. Instrument for measuring strain produced by pressure of solid rock. 3,466,926, 9-16-69, Cl. 73-151.
Ruppert, Horst: *See*—
Teerling, Martinus; and Ruppert, Horst,3,434,169.
Ruppli, Michel, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Parametric amplifier circuit operating in a pseudo-degenerate mode. 3,484,698, 12-16-69, Cl. 325-442.
Rupprecht, Hans Stephan; and Pilkuhn, Manfred, to United States of America, Navy. Laser diode and method. 3,479,613, 11-18-69, Cl. 331-94.5
Rupprecht, Joachim; and Walz, Heinz, to Siemens Aktiengesellschaft. Thermoelectric couple with soft solder electrically connecting semi-conductors and method of making same. 3,449,173, 6-10-69, Cl. 136-205.
Rupprecht, Joachim: *See*—
Oesterhelt, Gerhard; de Bucs, Eugen Szabo; Kunert, Alfred; and Rupprecht, Joachim,3,470,033.
Ruprecht, Robert, to Heinkel, Ernst Aktiengesellschaft. Sheave structure. 3,470,756, 10-7-69, Cl. 74-230.17
Ruprecht, Robert; Heydlauf, Kurt; and Braun, Herbert, to Heinkel, Ernst Aktiengesellschaft. Sheave. 3,434,363, 3-25-69, Cl. 74-230.17
Ruprecht, Robert; and Schaftner, Erich, to Heinkel, Ernst, Aktiengesellschaft. Variable pitch sheave and helical spring structure. 3,444,749, 5-20-69, Cl. 74-230.17
Rusak, Walter, Jr.: *See*—
Cilluffo, Frank A.; and Rusak, Walter, Jr.,3,424,351.
Rusanovich, Nikolai Grigorievich; Dmitriev, Ivan Sergeevich; Korobov, Yakov Vasilievich; Volfenzon, Shmul Ovshievich; Kostin, Boris Jurievich; Zaichik, Evegeny Bentsionovich; and Emelyanov, Vasily Semenovich. Device for rigid fastening of cargo to aircraft particularly to helicopter-crane for transporting this cargo. 3,450,376, 6-17-69, Cl. 244-137.
Rusch, John H. Method of treating ferrous metal surfaces. 3,460,989, 8-12-69, Cl. 134-3.
Rusch, Reinhart: *See*—
Schulz, Heinz; Arndt, Friedrich; Hoyer, Georg-Alexander; and Rusch, Reinhart,3,454,591.
Rusche, Fredric. Method of forming and driving thin wall pipe pile and boot. 3,453,831, 7-8-69, Cl. 61-53.5
Ruscher, Dorothy, and 1/2 to Ruscher, Harold, Jr.: *See*—
Ruscher, Harold, 3,427,438.
Ruscher, Harold, 3,427,440.
Ruscher, Earl Hugh. Electrical swivel cable connector. 3,439,307, 4-15-69, Cl. 339-8.
Ruscher, Harold, 1/4 to Ruscher, Dorothy, and 1/2 to Ruscher, Harold, Jr. Ticket vending system and equipment. 3,427,438, 2-11-69, Cl. 235-61.6
Ruscher, Harold, 1/4 to Ruscher, Dorothy, and 1/2 to Ruscher, Harold, Jr. Printing of order forms and inventory control. 3,427,440, 2-11-69, Cl. 235-61.9
Ruschig, Heinrich: *See*—
Ehrhart, Gustav; Leditschke, Heinrich; Meixner, Willi; and Ruschig, Heinrich,3,474,140.
Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Ruschig, Heinrich,3,468,918.
Haede, Werner; Radscheit, Kurt; Fritsch, Werner; Stache, Ulrich; and Ruschig, Heinrich,3,461,145.
Leditschke, Heinrich; Ehrhart, Gustav; Ruschig, Heinrich; and Meixner, Willi,3,462,456.
Ruschig, Heinrich; Konig, Johann; and Duwel, Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. γ-Resorcylic acid anilides and process for preparing them. 3,449,420, 6-10-69, Cl. 260-559.
Ruschig, Heinrich; Meixner, Willi; and Alpermann, Hans Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3-Anilino-thiophene-4-carboxylic acids, esters, and amides. 3,445,473, 5-20-69, Cl. 260-293.4
Ruscilli, Albert E., to Standard Oil Company (Indiana). Regeneration of a cobalt hydrogenation catalyst. 3,451,943, 6-24-69, Cl. 252-420.
Rusconi, Theodore C. Suspension system. 3,459,436, 8-5-69, Cl. 280-104.
Rush, Charles J.: *See*—
Romanowski, Thomas A.; and Rush, Charles J.,3,447,032.
Rush, Hugh M., to Rohr Corporation. Multiple diffusion pump array for improved statistical pumping of vacuum work chamber. 3,463,897, 8-26-69, Cl. 219-121.
Rush, Hugh M.; and Gerard, Milan E., to Rohr Corporation. Method of beam alignment and welding of non- orthogonal section members. 3,456,092, 7-15-69, Cl. 219-121.
Rush, James A.: *See*—
Humbert, Kingsley E., Jr.; and Rush, James A.,3,469,707.
Rush, Sarah J.: *See*—
Tholstrup, Clarence E.; and Rush, Sarah J.,3,461,153.
Rush, Stephen K. Propulsion system for swimmers. 3,422,787, 1-21-69, Cl. 115-6.1
Rush, William A.; and Frankenstein, Harold L., to Westinghouse Electric Corporation. Thermal mastic. 3,442,094, 5-6-69, Cl. 62-516.
Rush, William F.: *See*—
Macriss, Robert A.; Weil, Sanford A.; and Rush, William F.,3,458,445.
Rusher, Robert L., to Du Pont de Nemours, E. I., and Company. Siliceous compositions containing water soluble indigoid compounds as stabilizers. 3,421,907, 1-14-69, Cl. 106-14.
Rusher, Robert L. Siliceous compositions containing water soluble quinoid compounds as stabilizers. 3,421,908, 1-14-69, Cl. 106-14.
Rusher, Robert L., to Du Pont de Nemours, E. I., and Company. Siliceous compositions containing azo aromatic compounds as stabilizers. 3,421,909, 1-14-69, Cl. 106-14.
Rusher, Robert L., to Du Pont de Nemours, E. I., and Company. Silicious compositions for coating heat sensitive surfaces. 3,455,705, 7-15-69, Cl. 106-38.23
Rushing, Frank C., to Westinghouse Electric Corporation. Satellite orientation apparatus. 3,429,525, 2-25-69, Cl. 244-1.
Rushing, Frank C.; Murphy, Bernard J., Jr.; Hauser, Ralph I.; and Shephard, Basil S., to Westinghouse Electric Corporation. Self-forming-boom retracting and deploying apparatus. 3,474,976, 10-28-69, Cl. 242-54.
Rushing, Karl; and Allen, John Clarence, Jr., said Rushing assor to said Allen, John C., Jr., and Brashier, Roy R. Automatic farming apparatus. 3,468,379, 9-23-69, Cl. 172-2.
Rushing, Karl; and Allen, John Clarence, Jr. Sensing device for use with a vehicle adapted to trace a path defined by a conductor. 3,468,391, 9-23-69, Cl. 180-98.
Rushing, Raymond G.: *See*—
Gibbs, Richard D.; and Rushing, Raymond G.,3,421,209.
Rushmere, John D.; and Todd, William H., to Du Pont de Nemours, E. I., and Company. Electroplating bath and process. 3,454,475, 7-8-69, Cl. 204-55.
Rushmere, John Derek, to Du Pont de Nemours, E. I., and Company. Zinc plating baths and additives therefor. 3,472,743, 10-14-69, Cl. 204-55.
Rushton, Brian M.: *See*—
Annand, Robert R.; Redmore, Derek; and Rushton, Brian M.,3,450,646.
Rushton, Brian M., to Petrolite Corporation. Amino-amido polymers. 3,445,441, 5-20-69, Cl. 260-89.5
Rushton, Derek, to Lucas, Joseph, (Industries) Limited. Connectors for use with flexible printed circuits. 3,423,721, 1-21-69, Cl. 339-174.
Rushton, Nigel John, to Lucas, Joseph, (Industries) Limited. Spark ignition systems for internal combustion engines. 3,476,097, 11-4-69, Cl. 123-148.
Rushton, William E., to Whiting Corporation. Method and apparatus for making superphosphoric acid. 3,440,010, 4-22-69, Cl. 23-165.
Rushton, William: *See*—
Cane, Nicholas William; and Rushton, William,3,446,009.
Rusk, Gerald R. Pattern plate. 3,472,311, 10-14-69, Cl. 164-243.
Rusk, Gerald R. Dowel pin. 3,472,312, 10-14-69, Cl. 164-387.
Rusk, Gerald R.; and Wical, Marshal W., to Freeman Supply Company, The. Riser former. 3,468,364, 9-23-69, Cl. 164-235.
Rusk, Thomas L.: *See*—
Burke, James F.; and Rusk, Thomas L.,3,422,460.
Rusling, Eric John; and Lowe, Edward Ivan, to Imperial Smelting Corporation (N.S.C.) Limited, (formerly National Smelting Company Limited, The). Radiation sensitive integrating device using sychronously driven rotating members. 3,461,307, 8-12-69, Cl. 250-231.
Rusling, George Roy: *See*—
Ludwig, Robert L.; and Rusling, George Roy,3,423,980.
Rusnak, Gene A., to United States of America, Interior. Beamforming in seismic surveying. 3,479,638, 11-18-69, Cl. 340-7.
Ruspino, James G.: *See*—
Lopp, Charles R.; and Ruspino, James G.,3,436,029.
Peyer, Wilbur G.; and Ruspino, James G.,3,421,704.
Russ, Patrick C. Orthodontic appliance. 3,469,315, 9-30-69, Cl. 32-14.
Russel, Charles A.: *See*—
Hansen, Ralph H.; and Russel, Charles A.,3,462,517.
Russel, Jeff Hamish: *See*—
Schmutz, Jean; Hunziker, Fritz; Kunzle, Franz Martin; and Russel, Jeff Hamish,3,478,056.

Russell, Alan Reid. Apparatus for treating bronchiectasis and other ailments. 3,455,297, 7-15-69, Cl. 128-33.
Russell, Allan M., to United States of America, Navy. Apparatus for measuring the energy distribution of electrons extracted from solids. 3,437,915, 4-8-69, Cl. 324-24.
Russell, Alvah A., Jr.; and Pearson, Howard L., to Ripley Company, Inc. Auxiliary metering apparatus. 3,425,275, 2-4-69, Cl. 73-195.
Russell, Burdsall & Ward Bolt and Nut Company: *See*—
Dawson, Douglas Martin, 3,446,407.
Russell, Carl D. CDR self-actuating voltage level protective circuit for vehicular electrical systems. 3,462,647, 8-19-69, Cl. 317-31.
Russell, Carl D. Mechanically operated remote control outside mirror device. 3,466,941, 9-16-69, Cl. 74-501.
Russell, Carl D., to Carter, Edward M., and Hamblin, Ralph H. Outside mirror and magnetic positioning means. 3,475,081, 10-28-69, Cl. 350-279.
Russell, Carl D., to Engineering Automotive Sciences Inc., mesne. Rear view mirror angling device. 3,486,811, 12-30-69, Cl. 350-289.
Russell, Charles E.: *See*—
Hawks, Otis J., 3,485,059.
Russell, Charles R.: *See*—
Buchanan, Russell A.; and Russell, Charles R.,3,480,572.
Buchanan, Russell A.; Russell, Charles R.; and Weislogel, Orville E.,3,442,832.
Gugliemelli, Lewis A.; Weaver, Mary Ollidene; and Russell, Charles R.,3,425,971.
Russell Constructions Limited: *See*—
Hurst, Justin, 3,444,999.
Russell, Daniel D., Jr.; Jacobs, Paul H.; and Wright, Larry R., to Motorola, Inc. Transmission time limiting. 3,469,191, 9-23-69, Cl. 325-133.
Russell, David A.; and Cynoski, Chester F., to Monsanto Company. Method of manufacturing high strength structures having cellular cores. 3,458,608, 7-29-69, Cl. 264-45.
Russell, David A.; and Hardy, Edgar E., to Monsanto Company. Structure having an internal cellular core and its manufacture. 3,444,036, 5-13-69, Cl. 161-161.
Russell, Donald H., to Atlantic Richfield Company. System for obtaining filled vinyl acetate-epoxy resins. 3,464,948, 9-2-69, Cl. 260-30.4
Russell, Douglas D., to Foxboro Company, The. Field effect switching circuit. 3,448,293, 6-3-69, Cl. 307-251.
Russell, Edmund R., to Eastman Kodak Company. Cobalt containing catalysts oxygen regenerated to form cobaltosic oxide. 3,463,741, 8-26-69, Cl. 252-416.
Russell, Edward J., to Smith, W. C. Removable awning for train windows. 3,456,404, 7-22-69, Cl. 52-78.
Russell Engineering Corporation: *See*—
Russell, George F., 3,477,206.
Russell, Ernest J.: *See*—
Burkhalter, Harvey Don; and Russell, Ernest J.,3,460,288.
Russell, Francis Michael, to Science Research Council. Cyclotron having charged particle and electron beams. 3,459,988, 8-5-69, Cl. 315-5.42
Russell, Frank H., to Bolton-Emerson, Inc. Method for cleaning the orifices of shower tubes by applying suction and brushing. 3,432,383, 3-11-69, Cl. 162-272.
Russell, Frank L.; and Lyons, Thomas P., Jr., to United States of America, Army. Portable shelter. 3,464,168, 9-2-69, Cl. 52-63.
Russell, Fred J.: *See*—
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L., 3,420,561.
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L., to Russell, Fred J. Latch bolt hold-back in lock. 3,420,561, 1-7-69, Cl. 292--165
Russell, Fred J.; Armstrong, Richard L.; and Jennie, Fred L., to Norris Industries, Inc., mesne. Spring-urged knob face and spindle combination. 3,467,429, 9-16-69, Cl. 292-352.
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W., to Norris Industries Inc., mesne. Low-friction insert for latch bolt retractor. 3,459,448, 8-5-69, Cl. 292-336.5
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W., to Norris Industries, Inc., mesne. Unit lock dual dead bolts. 3,469,876, 9-30-69, Cl. 292-177.
Russell, Fred J.; Armstrong, Richard L.; and Spinuzzi, Sam J., to Norris Industries, Inc. Handhold shank bearing. 3,434,752, 3-25-69, Cl. 292-356.
Russell, Fred J.; and Nolin, Roger J. Unit lock dead bolt actuator slide. 3,477,755, 11-11-69, Cl. 292-229.
Russell, Fred J.; and Solovieff, George B., to Norris Industries, Inc., mesne. Door closer and check. 3,449,789, 6-17-69, Cl. 16-55.
Russell, George F., to Russell Engineering Corporation. Gas treatment by adsorption. 3,477,206, 11-11-69, Cl. 55-62.
Russell, George H.: *See*—
Bohnstedt, Charles E.; Russell, George H.; and Yoos, Harold F.,3,458,794.
Russell, Grover M., to Penn Controls, Inc. Pressure responsive safety control for motor driven compressor. 3,435,628, 4-1-69, Cl. 62-228.
Russell, Herman F. Meat cleaning apparatus. 3,439,369, 4-22-69, Cl. 15-3.17
Russell, Herman F. Automatic meat cleaning apparatus. 3,478,380, 11-18-69, Cl. 15-3.17
Russell, Higham S. Method and means for administering drugs. 3,444,858, 5-20-69, Cl. 128-260.
Russell, Higham Stanley. Method for administering drugs from a vehicle adhering by suction to the parabuccal cavity mucous membrane. 3,429,308, 2-25-69, Cl. 128-1.
Russell, Howard G.: *See*—
Erickson, Henry; and Russell, Howard G.,3,457,191.
Russell, Jack A.: *See*—
Baldwin, Bradford J.; Cornell, William D.; Hoffman, Paul R.; and Russell, Jack A.,3,469,905.
Russell, James S., to Steel Heddle Manufacturing Company. Shuttle grip and strap. 3,459,239, 8-5-69, Cl. 139-207.
Russell, James S.; and Kaufmann, John J., Jr., to Steel Heddle Manufacturing Company. Shuttle grip and strap assembly with insert. 3,451,439, 6-24-69, Cl. 139-207.
Russell, James T., to United States of America, Atomic Energy Commission. Gravity meter. 3,429,184, 2-25-69, Cl. 73-382.
Russell, James: *See*—
Smith, Donald F.; Russell, James; and Deretchin, David R.,3,454,419.
Russell, John D. Material transporting device. 3,431,026, 3-4-69, Cl. 302-27.
Russell, John D., to Microdot, Inc. Strain gauge temperature compensation system. 3,448,607, 6-10-69, Cl. 73-88.5
Russell, John R., to Steere Enterprises Inc. Litter container. 3,468,411, 9-23-69, Cl. 206-19.5
Russell, Joseph Lee, to Halcon International, Inc. Recovery of boron compounds in the oxidation of hydrocarbons. 3,475,500, 10-28-69, Cl. 260-631.
Russell, Joseph Lee; and Becker, Mitchell, to Halcon International Inc. Boric acid recovery and dehydration. 3,438,726, 4-15-69, Cl. 23-149.
Russell, Joseph L., to Halcon International, Inc. Hydrocarbon oxidation process. 3,459,805, 8-5-69, Cl. 260-586.
Russell, Joseph L., to Halcon International, Inc. Process for preparing methacrylic acid and its esters from isobutane. 3,470,239, 9-30-69, Cl. 260-486.
Russell, Joseph L., to Halcon International, Inc. Purification of boric acid. 3,482,936, 12-9-69, Cl. 23-149.
Russell, Joseph L.; and Olenberg, Harry, to Halcon International, Inc. Treatment of hydrocarbon oxidation mixtures. 3,420,897, 1-7-69, Cl. 260-631.
Russell, Joseph L.; and Winnick, Charles N., to Halcon International, Inc. Co-production of phthalic anhydride and an oxirane compound. 3,458,534, 7-29-69, Cl. 260-346.4.
Russell, Kenneth L., to Malmstrom Chemical Corp. Water-insoluble bacteriostats in soap and detergent solutions. 3,431,207, 3-4-69, Cl. 252-106.
Russell, Kenneth Sinclair. Grease extracting ventilating apparatus. 3,433,146, 3-18-69, Cl. 98-115.
Russell, Lewis B.: *See*—
Pierro, John J.; and Russell, Lewis B.,3,448,363.
Russell, Lewis K.: *See*—
Legat, Wilhelm; and Russell, Lewis K.,3,471,922.
Legat, Wilhelm H.; Russell, Lewis K.; and Rosvold, Warren C.,3,423,651.
Russell, Linus E., to Peters and Russell, Inc. Air compressor. 3,462,073, 8-19-69, Cl. 230-170.
Russell, Linus E., to Peters and Russell, Inc. Pump. 3,467,020, 9-16-69, Cl. 103-150.
Russell, Lowell L.: *See*—
Bender, Donald E.; Kaytor, James; and Russell, Lowell L.,3,459,165.
Russell Manufacturing Company, The: *See*—
Morton, Henry C., 3,464,882.
Russell, Michael King: *See*—
Newport, Stanley Bernard; and Russell, Michael King,3,485,097.
Russell, Norman Hall: *See*—
Watson, Robert D.; and Russell, Norman Hall,3,472,704.
Russell, Percy Arthur, to International Standard Electric Corporation. Arrangement of branched telephone subsets. 3,435,151, 3-25-69, Cl. 179-27.
Russell, Peter B.: *See*—
McCaully, Ronald J.; Bell, Stanley C.; and Russell, Peter B.,3,448,116.
Osdene, Thomas S.; Rane, Leo; and Russell, Peter B.,3,423,509.
Russell, Ralph W., to Kellwood Company. Hip-high hosiery. 3,440,665, 4-29-69, Cl. 2-240.
Russell, Raymond C.: *See*—
Bobula, Edward M.; Santoni, Cesar; and Russell, Raymond C.,3,439,949.
Russell, Richard A., to Aerojet-General Corporation. Broad band amplifiers using distributed RC network. 3,436,668, 4-1-69, Cl. 330-21.

Russell, Richard A.; and Lewis, Donald W., to Aerojet-General Corporation. Narrow band amplifiers using distributed RC network. 3,436,669, 41-69, Cl. 330-21.
Russell, Richard G.: *See—*
Barton, David W.; and Russell, Richard G.,3,451,288.
Kavthekar, Keshav S.; and Russell, Richard G.,3,431,997.
Russell, Richard, to Willcox & Gibbs Sewing Machine Co. Single needle, three-thread edge stitch. 3,431,876, 3-11-69, Cl. 112-433.
Russell, Robert E.; and McVey, Eugene S., to Basic Incorporated. Multi-phase rectifier with inherent phase balance. 3,447,061, 5-27-69, Cl. 321-5.
Russell, Robert G.; and Cunningham, Cecil R., to Owens-Corning Fiberglas Corporation. Method and apparatus for handling strand. 3,469,796, 9-30-69, Cl. 242-47.13
Russell, Robert J., to Texas Instruments, Incorporated. Method of manufacturing hard-faced metal products. 3,434,200, 3-25-69, Cl. 29-527.
Russell, Robert J., to Texas Instruments, Incorporated. Composite printing plate with a magnesium alloy bonded to an aluminum layer. 3,475,140, 10-28-69, Cl. 29-183.5
Russell, Robert J.; and Cable, Joseph Wesley, to Texas Instruments, Incorporated. Inductive heating of strip material. 3,444,346, 5-13-69, Cl. 219-10.61
Russell, Roger W.; and Strong, Doyle L., to Kimberly-Clark Corporation. Papermaking machine. 3,440,137, 4-22-69, Cl. 162-306.
Russell, Sid: *See—*
Arnoldi, Walter E.; Birbara, Philip J.; and Russell, Sid,3,440,153.
Russell, Sid, to United Aircraft Corporation. Electrolysis utilizing thin film electrolytes. 3,463,709, 8-26-, Cl. 204-60.
Russell, Theodore A., to Eastman Kodak Company. Multiple coating apparatus. 3,474,758, 10-28-69, Cl. 118-412.
Russell, Theodore B. Liquid measuring dispenser. 3,451,446, 6-24-69, Cl. 141-319.
Russell, Theodore B. Golf ball pick up device. 3,462,184, 8-19-69, Cl. 294-19.
Russell, Thomas J., to Alfred Electronics. Compressionally-loaded spring forming DC connection between the outer and inner conductor of a tem-mode transmission line. 3,423,702, 1-21-69, Cl. 333-97.
Russell, Thomas J., to Alfred Electronics. Continuously variable high-frequency transmission line attenuator using variably biased microwave diodes and method therefor. 3,453,564, 7-1-69, Cl. 333-81.
Russell Tool Co.: *See—*
Huckaby, Harold, 3,465,623.
Russell, William H. Strip cutting machine. 3,420,128, 1-7-69, Cl. 337-35.
Russell, William J., to Robertshaw Controls Company. Sealed limit switch. 3,450,855, 6-17-69, Cl. 200-168.
Russell, William J.; and Bauer, Werner Robert, to Robertshaw Controls Company. Plug-in receptacle for a circuit selector switch. 3,458,679, 7-29-69, Cl. 200-168.
Russell, William J.: *See—*
Snoberger, Philip H.; and Russell, William J.,3,422,313.
Russell, William S.: *See—*
Leland, James F.; and Russell, William S.,3,481,797.
Russenberger, Victor. Luminous warning device with interchangeable telltale lamp for various electric circuits. 3,465,335, 9-2-69, Cl. 340-381.
Russenberger, Victor. One-piece luminous warning device. 3,466,648, 9-9-69, Cl. 340-381.
Russi, Joseph N., to Sylvania Electric Products, Inc. Decorative incandescent lamp. 3,462,632, 8-19-69, Cl. 313-110.
Russinik, Michael R., to Gray Company, Inc. Fluid selection system. 3,429,508, 2-25-69, Cl. 239-126.
Russo, Albert J. Anti-fumble trainer football. 3,450,407, 6-17-69, Cl. 273-65.
Russo, Carl J.: *See—*
Ross, Stanley E.; Mazzone, Charles P.; and Russo, Carl J.,3,441,990.
Russo, Frank W.: *See—*
Hill, Virgil; and Russo, Frank W.,3,419,983.
Russo, Mario: *See—*
Mortillaro, Luigi; Russo, Mario; and Bezzi, Silvio,3,425,991.
Russo, Peter. Drill. 3,452,625, 7-1-69, Cl. 77-70.
Russomanno, Rocco Joseph, to Hoffmann-La Roche Inc. Sterile filter. 3,448,011, 6-3-69, Cl. 195-139.
Russon, Wayne P., to Sperry Rand Corporation. Fluidic loose solids and granular material level sensing apparatus. 3,459,035, 8-5-69, Cl. 73-37.5
Rust, Charles M.: *See—*
Ehrlich, John J.; Hutcheson, Guilford J., Jr.; Rust, Charles M.; Roberts, Thomas G.; and Cason, Charles M., III,3,464,267.
Rust, David Jordan, to Rylock Company, Ltd. Dual sash window unit. 3,440,768, 4-29-69, Cl. 49-449.
Rust, Frederick F.; and Klein, Harvey S., to Shell Oil Company. Halide addition process. 3,480,661, 11-25-69, Cl. 260-465.4
Rust Furnace Company: *See—*
Doherty, Bernard E.; and Bjerke, Harald C., 3,486,533.
Rust, Gustav: *See—*
Bachem, Christian; John, Gunther; and Rust, Gustav,3,465,591.
Rust, Wallace R.; and Whitman, Robert J. Static memory punched card reader. 3,470,360, 9-30-69, Cl. 235-61.11
Rustad, George H. Book rest. 3,476,348, 11-4-69, Cl. 248-445.
Rustin, Rudolph B., Jr.; Overton, Dolphin D., III; and Hughes, William E., to Overton Container Corporation. Container and pallet. 3,472,363, 10-14-69, Cl. 206-46.
Rustin, Rudolph B., Jr.: *See—*
Overton, Dolphin D., III; Hughes, William E.; and Rustin, Rudolph B., Jr.,3,485,350.
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E.,3,439,862.
Overton, Dolphin D., III; Rustin, Rudolph B., Jr.; and Hughes, William E.,3,481,457.
Rusz, Tibor: *See—*
Levy, Donald; Rusz, Tibor; and Szekely, Steven M.,3,465,753.
Rutberg, Efim Izrailevich: *See—*
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich,3,443,836.
Rutchick, Robert K., to National Advertising Company. Display device with reversible and replaceable four-message display cartridge. 3,430,372, 3-4-69, Cl. 40-61.
Rutenberg, Abraham. Economical utilization of existing power plants. 3,479,820, 11-25-69, Cl. 60-64.
Rutenberg, Abraham. High tension electric power conductor suspension arrangements. 3,482,031, 12-2-69, Cl. 174-45.
Ruter, Lewis L. Floatable fish basket. 3,478,463, 11-18-69, Cl. 43-55.
Rutgerswerke und Teerverwertung Aktiengesellschaft: *See—*
Jellinek, Karl; and Post, Udo, 3,425,961.
Ruth, John A.: *See—*
Farmer, Leonard J.; and Ruth, John A.,3,482,516.
Ruth, Richard L.: *See—*
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,425,039.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,931.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A.,3,454,932.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W.,3,454,933.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,934.
Bahrs, David L.; Couleur, John F.; Ruth, Richard L.; and Shelly, William A.,3,483,525.
Cohen, Robert; Couleur, John F.; and Ruth, Richard L.,3,479,647.
Couleur, John F.; and Ruth, Richard L.,3,478,324.
Ruth, Wayne A.: *See—*
Horton, Gilbert; Ruth, Wayne A.; and Cox, Clarence,3,433,107.
Ruthardt, Konrad: *See—*
Thiede, Maria nee Mentzner; and Ruthardt, Konrad,3,480,429.
Ruthel, Walter W.: *See—*
Emery, Alvin T.; and Ruthel, Walter W.,3,464,912.
Rutherford, David: *See—*
Black, William A.; Dewar, Eric T.; and Rutherford, David,3,463,790.
Black, William A. P.; Dewar, Eric T.; and Rutherford, David,3,420,852.
Black, William A. P.; Dewar, Eric T.; and Rutherford, David,3,433,738.
Rutherford, John M., Jr.: *See—*
Stone, Fred W.; and Rutherford, John M., Jr.,3,472,840.
Rutherford, Russell G. Measured liquid dispenser. 3,431,953, 3-11-69, Cl. 141-361.
Rutherford, Stuart Henry, to Redifon Air Trainers Limited. Motion picture projector with selective continuous or intermittent drive. 3,455,626, 7-15-69, Cl.
Ruthner Industrieplanungs-Aktiengesellschaft: *See—*
Hampel, Josef, 3,473,962.
Ruthrof, Klaus; Schwarzer, Gerhard; Agell, Jose Domenech; Mir, Enrique Veiga; and Artigas, Jesus Colell, to Siemens Aktiengesellschaft. Apparatus for the continuous separation of solids from a liquid flowing in a conduit. 3,481,475, 12-2-69, Cl. 210-304.
Ruthroff, Clyde L., to Bell Telephone Laboratories, Incorporated. Frequency discriminator with injection-locked oscillator. 3,479,607, 11-18-69, Cl. 329-124.
Ruthroff, Clyde L., to Bell Telephone Laboratories, Incorporated. Supervisory signaling over radio-telephone system. 3,484,557, 12-16-69, Cl. 179-16.
Ruti Machinery Works Ltd.: *See—*
Freihofer, Alexis, 3,430,666.
Freihofer, Alexis, 3,434,507.
Rossmann, Rudolf H.; and Strauss, Edgar, 3,477,475.

Schaffer, Heinrich, 3,443,602.
Schaffer, Heinrich, 3,444,900.
Schaffer, Heinrich, 3,444,901.
Rutishauser, Ernst, to RCA Corporation. Delay lines. 3,466,574, 9-9-69, Cl. 333-29.
Rutkoski, Joseph E., to Pullman Incorporated. Floor board support structure. 3,442,224, 5-6-69, Cl. 105-368.
Rutkowski, Gerald L., to Massey-Ferguson Inc. Change speed planetary transmission. 3,477,314, 11-11-69, Cl. 74-750.
Rutledge, Benny John. Stabilizing means. 3,442,531, 5-6-69, Cl. 280-150.5
Rutledge, George A.: *See—*
Fleischman, Frederick R.; and Rutledge, George A.,3,425,339.
Rutledge, Ralph Martin; Henry, Robert L.; and Williams, William Albert, to Tri-State Products, Inc. Cover for split band on molded article. 3,442,521, 5-6-69, Cl. 277-237.
Rutledge, Robert D.: *See—*
Farrall, Richard J.; and Rutledge, Robert D.,3,481,657.
Rutledge, Robert L.; and Shrewsbury, Raymond W., to Minnesota Mining and Manufacturing Company. Method of searching and reading out information bearing cards. 3,460,100, 8-5-69, Cl. 340-173.
Rutledge, Seth E., to Small Business Administration. Tire boot. 3,468,359, 9-23-69, Cl. 152-367.
Rutschi, Kurt, to Sulzer Brothers Limited. Apparatus for storage and transport of weft thread bobbins. 3,472,466, 10-14-69, Cl. 242-129.5
Rutt, Richard D., to Carborundum Company, The. Metal supported carbon friction disc. 3,473,637, 10-21-69, Cl. 188-251.
Ruttenberg, Harold J.; and Close, Garth, to United Steel and Wire Company. Grocery cart with inclined bottom having a front opening gate system. 3,437,176, 4-8-69, Cl. 186-1.
Rutter, Kenneth, to Petrie & McNaught Limited. Apparatus for treating fibrous material. 3,426,556, 2-11-69, Cl. 68-22.
Rutter, William H.: *See—*
Tashlick, Irving; Rutter, William H.; and Zak, William J.,3,442,849.
Rutty, Edward C., to Stanley Works, The. Strapping mechanism. 3,447,447, 6-3-69, Cl. 100-4.
Rutz, Hans, to Rieter Machine Works, Ltd. Card flat cleaning system. 3,438,093, 4-15-69, Cl. 19-1107.
Rutz, Leon E.: *See—*
Nelson, Paul C.; and Rutz, Leon E.,3,431,758.
Rutz, Richard F., to International Business Machines Corporation. Solid state transformer. 3,445,686, 5-20-69, Cl. 307-299.
Rutz, Richard F.: *See—*
Marinace, John C.; and Rutz, Richard F.,3,457,633.
Rutzebeck, John D. Traveling arbor saw. 3,456,697, 7-22-69, Cl. 143-47.
Rutzen, Erich Adolf Wilhelm: *See—*
Hollendieck, Hans; Meier, Hans Justus; and Rutzen, Erich Adolf Wilhelm,3,462,099.
Rutzen, Horst; and Lowenstein, Albert, to Bohme Fettchemie G.m.b.H. Room deodorants. 3,479,297, 11-18-69, Cl. 252-305.
Ruud, Glenn E.; and Rathfon, Norman L., III, to Packaging Corporation of America. Container with pouring spout. 3,481,524, 12-2-69, Cl. 229-17.
Ruud, Gunnar. Means for dispensing glue or adhesives in pre- determined volumes, particularly for use in the manufacture of packages of cardboard. 3,459,336, 8-5-69, Cl. 222-146.
Ruus, Henn, to Moore Business Forms, Inc. Method of encapsulation. 3,429,827, 2-25-69, Cl. 252-316.
Ruxton, George S., to Pacific Pumping Company. Flow measuring device. 3,452,169, 6-24-69, Cl. 200-81.9
Ruyle, William V.: *See—*
Shen, Tsung-Ying; and Ruyle, William V.,3,463,850.
Shen, Tsung-Ying; Dorn, Conrad P., Jr.; and Ruyle, William V.,3,452,079.
Ruzevick, Peter M.; Adams, Ronald F.; and Reynolds, Albert H., to Cromwell Paper Company, The. Four component multipurpose corrosion inhibitor. 3,425,954, 2-4-69, Cl. 252-392.
Ruzika, Joseph W., to Nichols Engineering & Research Corporation. Method and apparatus for incinerating waste material. 3,457,882, 7-29-69, Cl. 110-8.
Ryabukha, Alexandr Yakovlevich: *See—*
Kiselev, Vasily Vasilievich; Ryabukha, Alexandr Yakovlevich; and Brylev, Anatoli Ivanovich,3,485,075.
Ryall, Neil E. Traffic signal plumbing apparatus. 3,478,994, 11-18-69, Cl. 248-276.
Ryan Aeronautical Co., The: *See—*
Aasted, Jorgen; and Kafitz, Peter H., 3,427,620.
Badewitz, Charles J., 3,472,471.
Flarity, Warren H., 3,445,845.
Girard, Peter F., 3,464,650.
Krueger, Curtiss C.; and Worley, Ronald C., 3,439,287.
Phillips, Edward T., 3,453,633.
Williams, David R., 3,454,206.
Ryan, Carl R., to Motorola, Inc. Differential amplifier circuits. 3,452,289, 6-24-69, Cl. 330-23.
Ryan, Charles C., to Westinghouse Electric Corporation. Automatic pulse amplitude tracking circuit. 3,469,197, 9-23-69, Cl. 328-150.
Ryan, Charles E.; and Considine, Dennis P., to United States of America, Air Force. Electron optical system. 3,452,179, 6-24-69, Cl. 219-121.
Ryan, Charles Francis; and Crochowski, Raymond John, to Rohm & Haas Company. Acrylic modifiers which impart impact resistance and transparency to vinyl chloride polymers. 3,426,101, 2-4-69, Cl. 260-876.
Ryan, Charles Francis; and Grochowski, Raymond John, to Rohm & Haas Company. Acrylic modifiers which impart impact resistance and transparency to vinyl chloride polymers. 3,448,173, 6-3-69, Cl. 260-876.
Ryan, Charles W.: *See—*
Van Heyningen, Earle M.; Ryan, Charles W.; and Spencer, John L.,3,459,749.
Ryan, Cornelius J., to Du Pont de Nemours, E. I., and Company. Aminoplast for anchor-coating cellophane. 3,423,350, 1-21-69, Cl. 260-29.4
Ryan, Daniel J.; and Armstrong, John J., Jr., to FMC Corporation. Method of preparing uniaxially oriented, flat propylene-ethylene copolymer articles. 3,461,198, 8-12-69, Cl. 264-178.
Ryan, Donald P., to Aircraft Radio Corporation. Bistable delay-multivibrator. 3,471,717, 10-7-69, Cl. 307-290.
Ryan, Edward J. Drapery liner. 3,422,879, 1-21-69, Cl. 160-330.
Ryan, Edward W., to United States of America, Air Force. Jet engine exhaust duct seal. 3,464,705, 9-2-69, Cl. 277-26.
Ryan Equipment Company: *See—*
Kindlien, Gordon E.; and Rothi, Raymond C., 3,439,747.
Ryan, F. B., Manufacturing Company: *See—*
Ryan, Francis B., 3,420,317.
Ryan, Francis B., to Ryan, F. B., Manufacturing Company. Blade structure for ditching and cable laying blades including a rotating cutter point or points. 3,420,317, 1-7-69, Cl. 172-699.
Ryan, Frederick M.: *See—*
Miller, Robert C.; and Ryan, Frederick M.,3,483,397.
Ryan, George R. Composite bottle cap with liner. 3,458,077, 7-29-69, Cl. 215-40.
Ryan, Harry Michael: *See—*
Garrette, Charles H., Jr.; and Ryan, Harry Michael,3,474,833.
Pino, Florencio; and Ryan, Harry,3,474,712.
Ryan Industries, Inc.: *See—*
Greenberg, Ralph, 3,446,388.
Ryan, James Francis, Jr., deceased0 (by First and Merchants National Bank; administrator), to Du Pont de Nemours, E. I., and Company. Yarn and fabric having improved pill resistance. 3,438,192, 4-15-69, Cl. 57-140.
Ryan, John J., to H & R Development Company, Inc. Pressure sensing device. 3,448,620, 6-10-69, Cl. 73-419.
Ryan, John J., to H. & R. Development Company, Inc. Surge cut-off device for pressure sensing units. 3,477,464, 11-11-69, Cl. 137-517.
Ryan, John T. Tractor conversion unit. 3,476,207, 11-4-69, Cl. 180-6.7
Ryan, John W.: *See—*
Danielsen, Berne E.; Dowsing, Reginald M.; Kennedy, Melvin R.; and Ryan, John W.,3,482,842.
Douglas, Raymond J.; Handler, Elliott; Iwasaki, Cedric E.; Kossoff, Joseph; and Ryan, John W.,3,475,857.
Sioles, George W.; Murtaugh, Thomas D.; and Ryan, John W.,3,484,799.
Ryan, John W., to Mattel, Inc. Stringed instrument having improved tuning and chording means. 3,439,571, 4-22-69, Cl. 84-312.
Ryan, John W., to Dow Corning Corporation. Organosilicon xanthic esters. 3,445,496, 5-20-69, Cl. 260-448.8
Ryan, John W., to Mattel, Inc. Walking toy. 3,445,960, 5-27-69, Cl. 46-247.
Ryan, John W.; and Baginski, Albert, to Mattel, Inc. String monorail. 3,439,448, 4-22-69, Cl. 46-243.
Ryan, John W.; and Chang, Richard Shih-Teng, to Mattel, Inc. Clutch device for sound reproducing means. 3,450,239, 6-17-69, Cl. 192-41.
Ryan, John W.; Chang, Richard Shih-Teng; and Rosen, Robert, to Mattel, Inc. Gun toy having sound producing means. 3,420,530, 1-7-69, Cl. 274-1.
Ryan, John W.; Chang, Richard Shin-Teng; and Rosen, Robert, to Mattel, Inc. Gun toy having sound producing means. 3,464,152, 9-2-69, Cl. 46-175.
Ryan, John W.; Echterling, Eugene J.; Golden, Michael E.; Goetz, John H.; and Chang, Richard Shih-Teng, to Mattel, Inc. Sound reproducing means and linking sound carrier means toy combination. 3,477,140, 11-11-69, Cl. 35-8.
Ryan, John W.; Frederick, Phyllis; Golden, Michael E.; and Zimmerman, Charles R., to Mattel, Inc. Game device. 3,456,944, 7-22-69, Cl. 273-1.
Ryan, John W.; Kossoff, Joseph; and Hartman, Jack E., to Mattel, Inc. Fluid-actuated animated figure toy. 3,451,160, 6-24-69, Cl. 46-135.
Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L., to Mattel, Inc. Changeable feature figure toy. 3,445,955, 5-27-69, Cl. 46-135.

Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L., to Mattel, Inc. Head construction for a figure toy. 3,448,540, 610-69, Cl. 46-164.
Ryan, John W.; and Lemkin, Jack Lewis, to Mattel, Inc. Doll construction for natural movements and positions. 3,425,155, 2-4-69, Cl. 46-162.
Ryan, John W.; MacMeekin, Robert A.; and Meggs, Daniel Henry, to Mattel, Inc. Self-propelled crawling toy. 3,475,854, 11-4-69, Cl. 46-206.
Ryan, John W.; and May, Richard L., to Mattel, Inc. Animating means for a figure toy. 3,421,254, 1-14-69, Cl. 46-118.
Ryan, John W.; and May, Richard L., to Mattel, Inc. Method of making animated figure toys having embedded connector means and a thickened area. 3,440,714, 4-29-69, Cl. 29-526.
Ryan, John W.; and Safianoff, Albert, to Mattel, Inc.Games employing ρH-sensitive media. 3,454,344, 7-8-69, Cl. 401-195.
Ryan, Joseph A.: *See—*
Baker, John F.; Rodrigo, Harry G.; and Ryan, Joseph A.,3,422,237.
Ryan, Lilburn T., to Tennant, G. H., Company. Fluid pressure pump apparatus and method using the same. 3,427,749, 2-18-69, Cl. 51-12.
Ryan, Norman W., to Phillips Petroleum Company. Production of carbon black using plasma-heated nitrogen. 3,420,632, 1-7-69, Cl. 23-209.4
Ryan, Patrick W.: *See—*
Verdol Joseph A.; and Ryan, Patrick W.,3,427,366.
Young, David W.; Ryan, Patrick W.; and Isaacson, Henry V.,3,446,740.
Ryan, Robert R.; and Werner, Leonard G., to St. Louis Diecasting Corporation. Shot speed control valve and method of controlling the speed of a shot cylinder ram. 3,463,188, 8-26-69, Cl. 137-599.
Ryan, Thomas J., to American Electronic Laboratories, Inc. In-circuit transistor testing apparatus. 3,431,494, 3-4-69, Cl. 324-158.
Ryan, Thomas J., to American Electronic Laboratories, Inc. Tester for determining the semiconductor material type of transistors. 3,458,814, 7-29-69, Cl. 324-158.
Ryan, William H., to Owens-Illinois, Inc. Synchronizing generator. 3,487,166, 12-30-69, Cl. 178-69.5
Ryan, William T., Jr., to Westinghouse Electric Corporation. Photoflash cube. 3,435,198, 3-25-69, Cl. 240-1.3
Ryan, William: *See—*
Kretzmer, Ernest R.; Mecklenburg, Paul; Rice, Donald W.; and Ryan, William,3,421,149.
Ryan, Winslow E.: *See—*
Hedler, Robert A.; and Ryan, Winslow E.,3,447,682.
Ryason, Porter Raymond, to Chevron Research Company. Method of removing sulfur dioxide and nitrogen oxides from gases. 3,454,355, 7-8-69, Cl. 23-2.
Ryba, Anton. Planet wheels-change gear for automotive vehicles. 3,444,763, 5-20-69, Cl. 74-763.
Rybar, Josef: *See—*
Blazek, Otta; Herynk, Milon; and Rybar, Josef,3,475,973.
Rybchinsky, Rostislav Evgenievich: *See—*
Balitsky, Andrei Vasilievich; Penkin, Nikolai Ilich; Filatovsky, Lev Alexeevich; Gavrilov, Nikolai Ivanovich; and Rybchinsky, Rostislav Evgenievich,3,468,561.
Ryberg, John G.; and Tjarksen, Donald E., to Caterpillar Tractor Company. Dual fuel injection system for gas turbine engine. 3,483,700, 12-16-69, Cl. 60-39.74
Rybicki, Robert C., to United Aircraft Corporation. Double action damper bumper. 3,484,173, 12-16-69, Cl. 416-106.
Rychlewski, Thaddeus V.: *See—*
Mackey, Donald G.; and Rychlewski, Thaddeus V.,3,457,362.
Rychlewski, Thaddeus V., to Sylvania Electric Products, Inc. Display device. 3,484,975, 12-23-69, Cl. 40-130.
Ryckaert, Andre; and Gilain, Jacques, to Solvay & Cie. Oxychlorination using a deacon catalyst supported on alumina α-monohydrate. 3,454,663, 7-8-69, Cl. 260-659.
Ryckaert, Andre; and Mulders, Julien, to Solvay & Cie. Stabilized chlorinated hydrocarbon compositions and process therefor. 3,479,414, 11-18-69, Cl. 260-652.5
Rycroft, Alan K., to Wagner Electric Corporation, mesne. Rear loading panel lamps and a method of basing the same. 3,447,016, 5-27-69, Cl. 313-317.
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard. Method of obtaining metallic gallium from combustion gases resulting from any kind of black or brown coal combustion. 3,468,773, 9-23-69, Cl. 204-105.
Rydberg, Clarence R.; and Knight, George, to Dymo Industries, Inc. Stencil constructions including barrier structure. 3,457,856, 7-29-69, Cl. 101-128.2
Rydberg, Helge Jan Arnold Molndal; and Reinhardt, Hans, to Incentive AB. Centrifuge for complete phase separation of two liquids. 3,442,445, 5-6-69, Cl. 233-18.
Ryden, Arthur, to Dutch, Philip R. Computer for recordation of a credit transaction. 3,469,240, 9-23-69, Cl. 340-172.5
Ryder, Charles F. Imbedded electrical fitting and cord assembly. 3,482,263, 12-2-69, Cl. 339-102.
Ryder, Francis E., to Illinois Tool Works Inc. Plastic clip. 3,421,187, 1-14-69, Cl. 24-81.
Ryder, Francis E., to Illinois Tool Works, Inc. Web transporting cartridge formed of a pair of identical housing members. 3,432,111, 3-11-69, Cl. 242-55.13
Ryder, Francis E., to Illinois Tool Works, Inc. Terminal board assembly. 3,439,310, 4-15-69, Cl. 339-33.
Ryder, Francis E., to Illinois Tool Works, Inc. Freezer lock assembly. 3,465,557, 9-9-69, Cl. 70-139.
Ryder, Francis E.: *See—*
Krol, Harry J.; and Ryder, Francis E.,3,425,023.
Soltysik, Edmund J.; and Ryder, Francis E.,3,421,135.
Soltysik, Edmund J.; and Ryder, Francis E.,3,486,158.
Ryder, Francis Eugene, to Illinois Tool Works Inc. Tubular fastener. 3,455,201, 7-15-69, Cl. 85-81.
Ryder, Geoffrey Alan: *See—*
Evans, Trevor Gwilym; and Ryder, Geoffrey Alan,3,480,170.
Ryder, Geoffrey Lionel: *See—*
Saunders, John Frank; and Ryder, Geoffrey Lionel,3,465,837.
Ryder, James P.; and Brouwer, Frans, to Whitney Forbes, Inc. Spray dispenser. 3,455,507, 7-15-69, Cl. 239-215.
Ryder Supply Company: *See—*
Roach, Benjamin H., 3,446,372.
Rydh, Thore Oskar Verner, to Aktiebolaget Astra. Preparation of anhydrous ferrous fumarate. 3,478,073, 11-11-69, Cl. 260-439.
Rydin, Roger A.: *See—*
Currey, Charles F.; and Rydin, Roger A.,3,423,285.
Rydstedt, Simon D., to Bell & Howell Company. Pistol grip carrying strap. 3,437,029, 4-8-69, Cl. 95-86.
Rye, Hugo: *See—*
Denss, Rolf; Rye, Hugo; and Prins, Daniel A.,3,424,755.
Rye Limited: *See—*
Wilkinson, Kenneth R., 3,446,557.
Ryer, Dudley A., Jr.: *See—*
McIntyre, Robert G.; Ryer, Dudley A., Jr.; and Wilfert, Martin E.,3,481,568.
Ryerson & Haynes, Inc.: *See—*
Steppon, William J., 3,436,947.
Ryerson, Olaf R.; and Doring, Dieter, to Westinghouse Electric Corporation. Low voltage-low power multivibrator. 3,474,261, 10-21-69, Cl. 307-291.
Ryf, Hugo: *See—*
Kuhnis, Hans Herbert; Ryf, Hugo; and Denss, Rolf,3,456,060.
Meisels, Alex; Denss, Rolf; and Ryf, Hugo,3,479,361.
Meisels, Alex; Denss, Rolf; and Ryf, Hugo,3,479,363.
Ryhage, Erik Ragnar. Methods in the analysis of gases. 3,479,798, 11-25-69, Cl. 55-158.
Ryhage, Ragnar Erik, to LKB-Produkter AB. Apparatus for recording mass spectra without ionizing a carrier gas. 3,430,040, 2-25-69, Cl. 250-41.9
Ryland, Lloyd B., to Shell Oil Company. Organic catalytic oxidation and catalysts therefor. 3,432,558, 3-11-69, Cl. 260-604.
Rylander, Paul N., to Engelhard Industries, Inc. Hydrogenation of nitrophenyl alkyl ketones. 3,423,462, 1-21-69, Cl. 260-580.
Rylander, Paul N., to Engelhard Industries, Inc. Method for hydrogenation of cinnamyl alcohols. 3,487,116, 12-30-69, Cl. 260-618.
Rylander, Paul N.; and Steele, Duane R., to Engelhard Industries, Inc. Process for the selective hydrogenation of phenylphenols. 3,423,472, 1-21-69, Cl. 260-619.
Rylands Brothers Limited: *See—*
Waywell, Thomas; and James, Thomas H., 3,484,054.
Rylock Company, Ltd.: *See—*
Rust, David Jordan, 3,440,768.
Ryman, Arthur James. Surgical operation tables. 3,452,977, 7-1-69, Cl. 269-324.
Ryman, Ivan; and Schmidt, Gunter, to Houston Fearless Corporation. Microwave drying system. 3,426,439, 2-11-69, Cl. 34-1.
Rymland, Murray J. Latch-loc construction. 3,457,572, 7-29-69, Cl. 5-260.
Rymsza, Daniel T.: *See—*
Countess, Clem C., Jr.; and Rymsza, Daniel T.,3,422,660.
Ryon, Richard M., Jr.: *See—*
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr.,3,423,677.
Rypkema, Jouke N.: *See—*
Dias, Fleming; Eilers, Carl G.; and Rypkema, Jouke N.,3,466,386.
Rypkema, Jouke N., to Zenith Radio Corporation. Doubly balanced modulator with suppressed even harmonic sidebands. 3,484,723, 12-16-69, Cl. 332-38.
Rys, Tadeusz J.; and Reed, Ronald H., to Square D Company. Circuit breaker enclosure with external operating handle and combination thereof with circuit breaker. 3,422,238, 1-14-69, Cl. 200-172.

Ryskamp, Neil J., to Allis-Chalmers Manufacturing Company. Automatic brake arrangement for short turn radius steering. 3,429,392, 2-25-69, Cl. 180-6.3
Ryskamp, Neil J., to Allis-Chalmers Manufacturing Company. Suspension mechanism for vehicle wheels. 3,439,927, 4-22-69, Cl. 280-6.
Ryskamp, Neil J., to Allis-Chalmers Manufacturing Company. Vehicle wheel braking system providing wheel slip control. 3,463,555, 8-26-69, Cl. 303-21.
Rystad, Arnold O.: *See—*
Casebolt, Ralph T.; and Rystad, Arnold O.,3,481,572.
Ryswick, Edward L., to Varispace Industries, Inc. Variable imprint spacing apparatus for rotary printing machine. 3,476,046, 11-4-69, Cl. 101-216.
Ryszewski, Vincent J.: *See—*
Frantz, Robert N.; Ryszewski, Vincent J.; and Gilmour, Jack L.,3,441,289.
Ryszewski, Vincent J., to Chrysler Corporation. Joint assembly for vehicle steering linkage. 3,428,345, 2-18-69, Cl. 287-93.
Rytina, Anton W.: *See—*
Satchell, Fred E.; Rytina, Anton W.; and Trier, Louis J.,3,477,721.
Ryu, Hirosuke: *See—*
Ichiki, Eiichi; Ryu, Hirosuke; and Inoue, Yasuhiko,3,474,122.
Ryvkin, Vladimir Lvovich: *See—*
Kamenyarzh, Alexandr Yakovlevich; and Ryvkin, Vladimir Lvovich,3,459,621.
Rzant, Adolph W., to International Business Machines Corporation. Welding of electrical elements having voltage sensitive components. 3,459,918, 8-5-69, Cl. 219-91.
Rzuchowska, Ida: *See—*
Horodko, Romuald; Rzuchowska, Ida; Szajng, Danuta; Walewska, Kazimiera; and Zukowska, Maria,3,484,070.
S & C Electric Company: *See—*
Evans, David M.; and Stene, Manfred, 3,432,780.
Harner, Robert H., 3,460,042.
Jeffries, James E., 3,459,905.
Schockelt, Guenther G., 3,425,017.
S & M Constructors, Inc.: *See—*
Scaravilli, Victor J.; and Delisio, Charles J., 3,451,722.
S & S Corrugated Paper Machinery Co., Inc.: *See—*
Shields, Albert F., 3,472,158.
S & S Corrugated Paper Machinery Company, Inc.: *See—*
Flaum, Mitchel; and Weiskopf, Gunther, 3,456,565.
Shields, Albert F., 3,468,734.
S & S Enterprises, Inc.: *See—*
Van Gompel, James J.; and Meyer, Luther W., 3,422,714.
S-F-D Laboratories, Inc.: *See—*
Cook, Alfred W., 3,479,556.
du Fosse, Peter; and Glenfield, George E., 3,441,793.
Earney, George K., 3,437,875.
Farney, George K., 3,427,495.
Farney, George K., 3,427,499.
Farney, George K., 3,436,594.
Farney, George K., 3,448,330.
Glenfield, George E., 3,441,792.
Hentschel, John E., 3,437,866.
Hynes, Richard M.; and Glenfield, George E., 3,441,795.
McDowell, Hunter L., 3,445,718.
S-P Manufacturing Corporation, The: *See—*
Highberg, George A., 3,460,849.
Sampson, Merritt B., 3,439,925.
Sampson, Merritt B.; and Young, Alan H., 3,464,712.
Sampson, Merritt B., 3,468,551.
Sampson, Merritt B.; and Young, Alan H., 3,481,612.
S.A. de la Fabrique de Horlogerie Le Coultre et Co.: *See—*
Berney, Claude; and Meylan, Claude, 3,452,416.
S.A. Ebauches Neuchatel: *See—*
Besson, Rene, 3,449,905.
S&A Electronics, Inc.: *See—*
Wells, Donald H., 3,434,145.
S.A. Fiblex: *See—*
Chevaux, Jean, 3,473,597.
S.A. Libresa: *See—*
Kocchlin, Pierre Maurice, 3,453,350.
S.A. Zuccolo Rochet & Cie: *See—*
Brunet, Louis L. B., 3,429,142.
Saab Aktiebolag: *See—*
Bourghardt, Sven Erik, 3,478,326.
Eckered, Thomas Harald; Sviden, Ove; and Ljungstrom, Olle, 3,478,836.
Faxen, Per Torsten; and Ericsson, Hans T., 3,474,704.
Ohlund, John Alex Ingvar, 3,423,848.
Ohlund, John Alex Ingvar, 3,452,453.
Ohlund, John Alex Ingvar, 3,466,609.
Ohlund, John Alex Ingvar; and Andersson, Torsten Wilhelm, 3,479,032.
Ornberg, Kjell Torsten, 3,471,107.
Roed, Age Eilef, 3,478,988.
Saal, Frederick A., to Bell Telephone Laboratories, Incorporated. Combined time division and space division switching system using pulse coded signals. 3,424,868, 1-28-69, Cl. 179-15.
Saalborn, Otto E., to General Telephone & Electronics Laboratories Incorporated. Wideband FM detector circuit employing a phase comparator. 3,484,706, 12-16-69, Cl. 329-103.
Saam, John C., to Dow Corning Corporation. Silicones containing an amido group and method of preparing same. 3,440,261, 4-22-69, Cl. 260-448.2
Saari, George W.: *See—*
Lakso, Eugene E.; and Saari, George W.,3,447,661.
Saari, Matti: *See—*
Malmstrom, Rolf Einar; Tanner, Heikki; and Saari, Matti,3,451,804.
Saari, Veikko R., to Bell Telephone Laboratories, Incorporated. Quaternary encoding using multiple feedback loops around operational amplifiers. 3,447,146, 5-27-69, Cl. 340-347.
Saari, Veikko R., to Bell Telephone Laboratories, Incorporated. Bistable differential circuit. 3,459,963, 8-5-69, Cl. 307-235.
Saarinen, Aulis. Prefabricated building elements. 3,468,081, 9-23-69, Cl. 52-79.
Saarivirta, Matti J., to Calumet & Hecla Corporation, mesne. Copper alloy. 3,421,888, 1-14-69, Cl. 75-159.
Saaty, Nabil N.: *See—*
Abercrombie, Lawrence W.; Saaty, Nabil N.; and Sayigh, Adnan A. R.,3,467,605.
Saatzer, Helen D. Mailbox attachment. 3,467,303, 9-16-69, Cl. 232-35.
Saavedra, Miguel A. System for conversion of sea water into fresh water. 3,438,869, 4-15-69, Cl. 203-11.
Saba, A., to Electronic Engineering Company of California. Method of using a solder contact fluid. 3,445,919, 5-27-69, Cl. 29-471.1
Saba, Frances S.: *See—*
Saba, Shafie; a/k/a, 3,477,720.
Saba, Joseph: *See—*
Saba, Shafie; a/k/a, 3,477,720.
Saba, Saba A., to Electronic Engineering Company of California. Method of soldering. 3,448,512, 6-10-69, Cl. 29-471.1
Saba, Shafie; a/k/a, to Saba, Joseph Saba, Frances S., and Secor, Sophie. Adjustable head assembly for golf club. 3,477,720, 11-11-69, Cl. 273-79.
Sabadishin, Steve; and Argentieri, Michael. Angle of attack indicator. 3,475,958, 11-4-69, Cl. 73-180.
Sabala, Ronald A.: *See—*
Unger, David; and Sabala, Ronald A.,3,465,783.
Sabath, Herman: *See—*
Goodhue, William M.; Osband, Sidney; and Sabath, Herman,3,452,609.
Sabathie, Michel; and Foures, Guy, to Societe Anonyme des Laboratoires Robert & Carriere. Cycle splitting device. 3,439,299, 4-15-69, Cl. 335-74.
Sabatier, Jacques Georges Robert: *See—*
Cogez, Paul Antoine Alexandre; Conte, Madeleine Marcelle; and Sabatier, Jacques Georges Robert,3,464,706.
Sabatino, Anthony, to Globe-Union Inc. Intercell connection and method of making same. 3,476,611, 11-4-69, Cl. 136-134.
S.A.B.E. Specialities Alimentaires pour le Betail, Societe Anonyme: *See—*
Buffy, Rene; and Tartar, Adolphe, 3,425,398.
Sabel, Erik Arne. Wearing parts for crushers. 3,473,746, 10-21-69, Cl. 241-299.
Sabel, Eugene J. Therapeutic shoe. 3,421,517, 1-14-69, Cl. 128-583.
Sabet, Huschang. Transmission with automatically varying ratio. 3,439,549, 4-22-69, Cl. 74-70.
Sabet, Huschang. Rotary sealing element having centrifugal force compensation. 3,444,843, 5-20-69, Cl. 123-8.
Sabin, Alfred B. Cargo transport system and container therefor. 3,453,839, 7-8-69, Cl. 62-239.
Sabin, Alfred B.; and Casten, James W. Axial flow booster pump. 3,486,457, 12-30-69, Cl. 103-89.
Sabine, Hale J.: *See—*
Greason, David M.; and Sabine, Hale J.,3,422,920.
Sabine, John B. Flanged plastic pipes. 3,430,661, 3-4-69, Cl. 138-109.
Sable, Donald E. Rod guide. 3,442,558, 5-6-69, Cl. 308-4.
Sabo, Anthony P. Internal pipe wrench. 3,471,160, 10-7-69, Cl. 279-7.
Sabol, Albert R.: *See—*
Culbertson, George S.; Sabol, Albert R.; and Karll, Robert E.,3,456,027.
Sabonis, Charles J., to General Electric Company. Circuit board mounting assembly for a radio or the like. 3,422,358, 1-14-69, Cl. 325-353.
Sabre, Daniel R. Universal joint. 3,429,143, 2-25-69, Cl. 64-8.
Saccardo, Pietro; and Smai, Franco, to Montecatini Edison S.p.A. Process for the production of chlorine and potassium sulfate. 3,433,591, 3-18-69, Cl. 23-121.
Sacchi, Giorgio: *See—*
Fasano, Germano; Sacchi, Giorgio; and Pons, Claude,3,440,499.

Sacchini, Columbus R.; and Lowery, Robert D., to Marquette Metal Products Company, The, mesne. Coil spring clutches and brakes. 3,451,512, 6-24-69, Cl. 192-12.
Sacco, Gloria C.; and Arcieri, Emanuel R. Place marker aid. 3,425,389, 2-4-69, Cl. 116-119.
Saccoccio, Anthony R.; and Husserl, Henry P. Ear clip. 3,462,808, 8-26-69, Cl. 24-248.
Sacerdote, Albert M. Materials working composition containing a high molecular weight polymer. 3,424,682, 1-28-69, Cl. 252-42.1
Sacerdote, Ugo: *See—*
Capriolo, Igino; and Sacerdote, Ugo,3,428,037.
Sach, George Sidney: *See—*
Sternbach, Leo Henryk; Saucy, Gabriel; Sach, George Sidney; and Stempel, Arthur,3,455,985.
Sachdeva, Roshan L.: *See—*
Viens, George E.; Campbell, Robert A.; Banks, George N.; Sachdeva, Roshan L.; and Sirianni, Guy V.,3,441,651.
Sacher, Karl: *See—*
Hecht, Georg; and Sacher, Karl,3,466,455.
Sachnine, Philippe: *See—*
Kassel, Charles; Sachnine, Philippe; and Vuillemey, Roland,3,486,987.
Sachs, Charles M., to International Playtex Corporation. Brassiere. 3,478,747, 11-18-69, Cl. 128-483.
Sachs, Ernst, to ERSA Ernst Sachs KG. Tool for removing solder. 3,484,033, 12-16-69, Cl. 228-51.
Sachs, Ernst; and Schwan, Bernhard, to ERSA Ernst Sachs KG. Electrical soldering tool and pivotal mount therefor. 3,480,759, 11-25-69, Cl. 219-242.
Sachs, Maxwell. Footwear sole with bridging parts and resilient parts and footwear sole with adjustable parts. 3,436,842, 4-8-69, Cl. 36-2.5
Sachs, Maxwell. Detachable uppers for footwear. 3,436,843, 4-8-69, Cl. 36-2.5
Sachs, Maxwell. Detachable uppers for footwear. 3,436,844, 4-8-69, Cl. 36-2.5
Sachs, Maxwell. Footwear. 3,436,845, 4-8-69, Cl. 36-2.5
Sachs, Maxwell. Footwear. 3,436,846, 4-8-69, Cl. 36-2.5
Sachse, Bruno: *See—*
Junkermann, Wolfgang; and Sachse, Bruno,3,437,559.
Sachsenwerk Licht- und Kraft-Aktiengesellschaft: *See—*
Wetter, Franz, 3,470,750.
Sack, Berthe, nee Afnain: *See—*
Sack, Henri,3,483,106.
Sack, Henri,3,445,358.
Sack, Ernst Theodor; and Konig, Georg, to Maschinenfabrik Sack G.m.b.H. Roller beds for conveying billets. 3,455,435, 7-15-69, Cl. 198-33.
Sack, Henri, dceased0 (by Sack, Berthe; administratrix), to Houilleres du Bassin du Nord & du Pas-de-Calais. Radiation polymerisation process of trioxane and a isocyanate stabilizer. 3,445,358, 5-20-69, Cl. 204-159.21
Sack, Henri, dceased0 (by Sack, Berthe, nee Afnain; sole heir), to Houilleres du Bassin du Nord & du Pas-de-Calais. Radiation polymerization of trioxane in the presence of polar impurities. 3,483,106, 12-9-69, Cl. 204-159.21
Sackett, A. J., & Sons Co., The: *See—*
Sackett, Walter J., Sr., 3,433,269.
Sackett, A. J., & Sons Company, The: *See—*
Sackett, Walter J., Sr., 3,428,263.
Sackett, Walter J., Sr., 3,447,698.
Sackett, Walter J., Sr., 3,460,592.
Sackett, Charles E., Jr. Illuminated railing. 3,448,257, 6-3-69, Cl. 240-2.
Sackett, John E.: *See—*
Cubberley, Harold A.; Abel, Edmund, Jr.; and Sackett, John E.,3,433,255.
Sackett, Walter J., Sr., to Sackett, A. J., & Sons Company, The. Materials conditioner. 3,428,263, 2-18-69, Cl. 241-88.
Sackett, Walter J., Sr., to Sackett, A. J., & Sons Co., The. Rapid access closure system for housing. 3,433,269, 3-18-69, Cl. 138-92.
Sackett, Walter J., Sr. Automatic level loading system for bin storage of free flowing materials. 3,435,967, 4-1-69, Cl. 214-17.
Sackett, Walter J., Sr., to Sackett, A. J., & Sons Company, The. High speed selective packaging system. 3,447,698, 6-3-69, Cl. 214-16.
Sackett, Walter J., Sr., to Sackett, A. J., & Sons Company, The. Multi-packaging, loading control system for both bulk and packaged materials. 3,460,592, 8-12-69, Cl. 141-98.
Sackinger, William M., to Westinghouse Electric Corporation. Electron multiplier device having an electrically insulating secondary emission control surface. 3,449,582, 6-10-69, Cl. 250-213.
Sackl, Alois, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Coiling machine for coiling wire mesh. 3,423,982, 1-28-69, Cl. 72-148.
Sackleh, Fred J. Bronze wool shield for aerospace and atmospheric vehicles. 3,439,885, 4-22-69, Cl. 244-1.
Sackler, Albert A.; and Enyeart, Raymond J., to Condec Corporation. Transmission control apparatus. 3,451,284, 6-24-69, Cl. 74-339.
Sackler, Mortimer D.: *See—*
Sackler, Raymond R., 3,440,320.
Sackler, Mortimer D. Method of manufacture of arginine aspartate. 3,487,103, 12-30-69, Cl. 260-501.11
Sackler, Mortimer D.; and Halpern, Alfred, to Synergistics, Inc. Quinine polygalacturonate. 3,452,022, 6-24-69, Cl. 260-284.
Sackler, Mortimer D.: *See—*
Halpern, Alfred; Sackler, Mortimer D.; and Sackler, Raymond R.,3,471,617.
Sackler, Raymond R.: *See—*
Sackler, Raymond R., 3,440,320.
Sackler, Raymond R.: *See—*
Halpern, Alfred; Sackler, Mortimer D.; and Sackler, Raymond R.,3,471,617.
Sackler, Raymond R., to Sackler, Mortimer D., and Sackler, Raymond R. Chelated suppository and method of using same. 3,440,320, 4-22-69, Cl. 424-230.
Sackmary, Stephen M.: *See—*
Gresens, Robert I.; and Sackmary, Stephen M.,3,443,795.
Sackner Products, Inc.: *See—*
Wilterink, Dale P., 3,446,004.
Sacks, Jerry D.: *See—*
McNeill, George A.; and Sacks, Jerry D.,3,477,916.
Sacre, Leo D., to American Photocopy Equipment Company. Photocopy machine having moving carrier for original. 3,424,526, 1-28-69, Cl. 355-10.
Sada, Masao: *See—*
Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Masao; Manabe, Mitsuyoshi; and Kondo, Shigekatsu,3,438,868.
Sada, Maszo: *See—*
Shima, Takesaburo; Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Maszo; and Takimoto, Tetuji,3,433,840.
Saddoris, Ronald S.: *See—*
Crenshaw, Richard D.; and Saddoris, Ronald S.,3,420,090.
Sadek, Curtis J. Resilient tubular conveyor. 3,421,613, 1-14-69, Cl. 198-184.
Sadek, Fawzy S., to Du Pont de Nemours, E. I., and Company. Process for making a firm cushioning structure. 3,471,610, 10-7-69, Cl. 264-321.
Sadle, Alexander. N-substituted isocyanurates. 3,485,833, 12-23-69, Cl. 260-248.
Sadle, Alexander: *See—*
Wells, Rodney L.; and Sadle, Alexander,3,457,199.
Sadler, Brian; and Ironmonger, Trevor, to Rolls-Royce Limited. Electrochemical machining using pressurized electrolyte to actuate a work support. 3,475,303, 10-28-69, Cl. 204-143.
Sadler, Fred S., to McGraw-Edison Company. Insulating material for electrical apparatus. 3,475,546, 10-28-69, Cl. 174-137.
Sadler, Harry J., to Hypro, Inc. Cylinder sleeve assembly for piston-type pump. 3,472,171, 10-14-69, Cl. 103-171.
Sadler, Harry J., to Hypro, Inc. Roller pump. 3,477,377, 11-11-69, Cl. 103-136.
Sadler, James C.: *See—*
Fuchser, Troy D.; and Sadler, James C.,3,438,029.
Sadler, James E.: *See—*
Tracy, James T.; Hulseberg, Paul J.; and Sadler, James E.,3,422,607.
Sadler, John Alfred, to Chubb-Mosler and Taylor Safes Ltd. Electrical protection system. 3,426,348, 2-4-69, Cl. 340-408.
Sadler, Kenneth B.: *See—*
Silbereis, Joseph A.; Holloway, Richard D.; and Sadler, Kenneth B.,3,442,335.
Sadler, Noah W., III, to Celotex Corporation, The, mesne. Shingles resistant to discoloration by microorganisms. 3,484,267, 12-16-69, Cl. 117-25.
Sadler, William R.: *See—*
Schira, John J.; Sadler, William R.; and Dragon, Thomas J.,3,435,424.
Sadoff, Bernard J., Jr. Visual scheduling means. 3,478,719, 11-18-69, Cl. 116-136.
Sadoune, Joseph: *See—*
Dubois, Andre; and Sadoune, Joseph,3,487,256.
Saeger, Waldemar: *See—*
Green, Leland D.; Reynolds, Robert W.; and Saeger, Waldemar,3,428,744.
Green, Leland D.; Reynolds, Robert W.; Saeger, Waldemar; and Tanguay, Armand R.,3,448,207.
Green, Leland D.; Saeger, Waldemar; and Tanguay, Armand R.,3,445,598.
Saeger, Waldemar, to Xerox Corporation. Facsimile phase coherent synchronization. 3,458,835, 7-29-69, Cl. 332-23.
Saeger, Waldemar; and Gold, Murray I., to Xerox Corporation. High resolution electrostatic recording method and apparatus. 3,484,791, 12-16-69, Cl. 346-74.
Saeger, Waldemar; Reynolds, Robert W.; Green, Leland Dale; Tanguay, Armand R.; and Shimabukuro, George T., to Xerox Corporation. Facsimile transceiver system with supervisor logic control. 3,432,613, 3-11-69, Cl. 178-6.
Saeger, Waldemar; and Shimabukuro, George T., to Xerox Corporation. Facsimile optional double skipping. 3,436,474, 4-1-69, Cl. 178-7.1

Shimabukuro, George T.; and Saeger, Waldemar,3,444,315.
Saeki, Fumio, to Taisei Kako Kabushiki Kaisha. Method for the production of plastic tubes. 3,465,917, 9-9-69, Cl. 222-107.
Saeki, Hideo; and Kondo, Fumio, to Nippon Communication Industrial Company Limited. Solid capacitor with a porous aluminum anode containing up to 8% magnesium. 3,445,731, 5-20-69, Cl. 317-230.
Saeki, Kunio; and Kamoi, Arao, to Toyo Seikan Kabushiki Kaisha. Method and device for thermal treatment of metal strip material. 3,456,930, 7-22-69, Cl. 263-3.
Saeman, Walter C., to Olin Mathieson Chemical Corporation. Process for the recovery of P_2O_5 from phosphatic ores. 3,479,138, 11-18-69, Cl. 23-165.
Saeman, Walter C.; and Wood, Judson A., to Olin Mathieson Chemical Corporation. Process of preparing anhydrous sodium carbonate from crude sodium bicarbonate. 3,451,767, 6-24-69, Cl. 23-63.
Saemann, Karl Ludwig, to Deere & Company. Combine control system. 3,470,681, 10-7-69, Cl. 56-20.
Saenger, John F., Jr.: *See—*
Manz, August F.; Saenger, John F., Jr.; Freeman, Norman D.; and Stanchus, Frank T.,3,483,354.
Saenz, William, to Corn Products Company. Process for producing a precooked dehydrated meat product. 3,486,910, 12-30-69, Cl. 99-208.
Safco Products Co.: *See—*
Simon, Peter Alan; Paletz, Leonard M.; and Fiterman, Benjamin, 3,429,632.
Safe Flight Instrument Corporation: *See—*
Greene, Leonard M., 3,437,292.
Greene, Leonard M., 3,486,722.
Saferstein, Albert; and Ross, Joseph. Razor with shave-counter. 3,440,999, 4-29-69, Cl. 116-133.
Saferstein, Samuel D.; and Gisslen, Jan M., to General Electric Company. Gas turbine engine cooling system. 3,452,542, 7-1-69, Cl. 60-39.66
Safety Development Corporation: *See—*
Barthauer, Gerald L., 3,479,285.
Safeway Stores, Incorporated: *See—*
Comstock, Alfred E.; and Wilcox, Burdsal Gardner, 3,433,278.
Todd, Philip E., 3,486,548.
Westfall, John F.; and Saukko, Leo E., 3,467,320.
Saffell, William F.: *See—*
Miller, Daniel A.; and Saffell, William F.,3,426,227.
Saffer, Bernard A.: *See—*
Feldman, Julian; Saffer, Bernard A.; and Frampton, Orville D.,3,480,685.
Saffin von Corpon, Paul. Mechanical mixing tap. 3,435,849, 4-1-69, Cl. 137-625.4
Saffir, Jacob A., to Dentsply International Inc. Dental handpiece instrument. 3,469,318, 9-30-69, Cl. 32-27.
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd, to Drever Company. Roller pressure high intensity quench systems. 3,420,083, 1-7-69, Cl. 72-201.
Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd, to Drever Company. Roller pressure quench system. 3,423,254, 1-21-69, Cl. 148-131.
Saffron, Ronald George. Machines for the blowing of hollow articles of thermoplastic material. 3,429,002, 2-25-69, Cl. 18-5.
Safholm, Sven Tore Anders; Sundquist, Bengt Lennart; and Franksson, Jan Rolf, to Aktiebolaget Casco. Device for applying liquid to a porous product. 3,473,514, 10-21-69, Cl. 118-410.
Safianoff, Albert: *See—*
Ryan, John W.; and Safianoff, Albert,3,454,344.
Safir, Sidney Robert; and Williams, Richard Preston, to American Cyanamid Company. Novel indanones. 3,454,565, 7-8-69, Cl. 260-240.
Safran, Paul, to Emerson Electric Co. Bidirectional electronically scanned antenna system. 3,430,242, 2-25-69, Cl. 343-100.
Safranski, John C., Jr., to Dow Chemical Company, The. Water soluble epoxy esters. 3,479,306, 11-18-69, Cl. 260-18.
Safranski, John C., Jr.: *See—*
Farber, Hugh A.; and Safranski, John C., Jr.,3,474,078.
Sagae, Makoto, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Air hammer appartus of a tuyere changing machine for a blast furnace. 3,456,739, 7-22-69, Cl. 173-91.
Sagal, Matthew Warren: *See—*
De Angelo, Michael Anthony; Sagal, Matthew Warren; and Sharp, Donald Jex,3,485,665.
Sagalow, Morton, to Singer-General Precision, Inc. Method of manufacturing squirrel-cage rotor. 3,469,309, 9-30-69, Cl. 29-598.
Saganowich, Bernard F.; Gibson, Leslie W., Jr.; and Hoverter, Bryce E., Jr., to American Safety Table Company, mesne. Thread severing mechanism. 3,470,835, 10-7-69, Cl. 112-252.
Sagar, Harold: *See—*
Moyse, James Albert; and Sagar, Harold,3,433,666.
Sagara, Hideo, to Mitsubishi Jukogyo Kabushiki Kaisha. Shaft bearing. 3,462,204, 8-19-69, Cl. 308-122.
Sagara, Hideo; Iwasaki, Yasuhiro; Ohe, Tsutomu; and Mashimo, Tomoyuki, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of fixing pipe base in multilayer container. 3,431,630, 3-11-69, Cl. 29-480.
Sagara, Toshio; Shoji, Masahiro; and Tsukahara, Hiroshi, to Toshiba Kikai Kabushiki Kaisha. Apparatus for injection blow moulding. 3,441,982, 5-6-69, Cl. 18-5.
Sagawa, Burt K.: *See—*
Puerckhauer, Gerhard W. R.; Sagawa, Burt K.; and Wittnebel, Bruce W.,3,460,946.
Sagawa, Seizi: *See—*
Terao, Shinichiro; Sagawa, Seizi; and Yabuta, Seizo,3,435,074.
Sagawa, Yasuyuki: *See—*
Harada, Masao; Kai, Mitoshi; and Sagawa, Yasuyuki,3,421,313.
Sage, David L. Dental clasp. 3,434,210, 3-25-69, Cl. 32-40.
Sage, Earl M. Sheet and pile holder for printing press. 3,430,948, 3-4-69, Cl. 271-61.
Sage, Ira H.: *See—*
Deemie, Gerald W.; and Sage, Ira H.,3,439,853.
Deemie, Gerald W.; and Sage, Ira H.,3,451,608.
Sage, Ira M., to Ing. C., Olivetti, & C., S.p.A., mesne. Electrostatic printing apparatus. 3,451,320, 6-24-69, Cl. 355-11.
Sage, John Ashley: *See—*
Stern, Robert; Welch, Thomas Ronald; and Sage, John Ashley,3,440,074.
Sage, Warnie L.: *See—*
Pirsh, Edward A.; and Sage, Warnie L.,3,454,383.
Sager, Dan: *See—*
Klebanow, Norman K.; and Sager, Dan,3,467,060.
Sager, Thomas, to Kleer-Vu Industries, Inc. Burst package with fold seal. 3,478,871, 11-18-69, Cl. 206-47.
Sages, Danyel, to Lummus Company, The. Water gas process. 3,458,298, 7-29-69, Cl. 48-197.
Saggers, David Thomas: *See—*
Brooker, Peter John; Gillon, John; Newbold, Geoffrey Tattersall; and Saggers, David Thomas,3,422,198.
Sagi, Kojiro: *See—*
Kawase, Shigeru; Kitazawa, Tohru; Ohba, Hiroo; and Sagi, Kojiro,3,484,273.
Sagi, Zsigmond L., to Singer Company, The. Skip-stitch mechanism for household zigzag sewing machines. 3,433,190, 3-18-69, Cl. 112-158.
Saginaw Machine and Tool Company: *See—*
Cashman, Robert W.; and Wasco, Anthony, Jr., 3,436,800.
Cushman, Robert; and Wasco, Anthony, Jr., 3,432,214.
Saginaw Products Corporation: *See—*
Holthofer, Donald J., 3,479,897.
Sagmeister, Edward. Refuse packer. 3,456,777, 7-22-69, Cl. 198-213.
Sagner, Inc.: *See—*
Feffer, Philip C.; Polino, Amleto C.; and Rickell, Arthur L., 3,427,737.
Sagona, Charles. High precision length-measuring and gaging instruments having optionally-useable dial indicating means. 3,448,523, 6-10-69, Cl. 33-147.
Sahler, Wilhelm August, to Plate, Dr., GmbH Chemische Fabrik. Process for the production of finely divided polyamide powders. 3,484,415, 12-16-69, Cl. 260-78.
Sahlin Engineering Co., Inc.: *See—*
Cagle, Harlan R., 3,463,186.
Cagle, Harlan R., 3,474,825.
Sahm, Otto. Rope clamp. 3,426,395, 2-11-69, Cl. 24-123.
Sahmel, Otto H., to Bausch & Lomb Incorporated. Potentiometer drive unit. 3,431,531, 3-4-69, Cl. 338-196.
Sahores, Jean; and Esquevin, Jacques, to Societe Nationale des Petroles d'Aquitaine. Method and apparatus for washing and grading swarf, for use in the mining or the mineral oil industry. 3,446,352, 5-27-69, Cl. 209-161.
Sahr, Kenneth D. Combination spare tire carrier and table. 3,448,904, 6-10-69, Cl. 224-42.01
Sahyun Laboratories: *See—*
Faust, John A.; and Sahyun, Melville,,3,459,803.
Sahyun, Melville: *See—*
Faust, John Andrew; and Sahyun, Melville, 3,438,995.
Sahyun, Melville: *See—*
Faust, John A.; and Sahyun, Melville,3,459,803.
Faust, John Andrew; and Sahyun, Melville,3,438,995.
Saia, Frank J.; and Quetsch, John, to Hughes Aircraft Company. Surface-protected semiconductor devices and methods of manufacturing. 3,440,496, 4-22-69, Cl. 317-234.
Saia, Jerry; and Spencer, Daryl L., to International Business Machines Corporation. Telephone ringing circuit. 3,471,651, 10-7-69, Cl. 179-84.

Saiia, Louis S. Audio-visual system. 3,475,088, 10-28-69, Cl. 352-133.
Saiia, Samuel N.; and Chiusolo, Louis L., 33 1/3% each to Agro, Ighatius T. Cassaro, Charles, and Chiusolo, Louis L. Laminated building component. 3,445,322, 5-20-69, Cl. 161-113.
Saiji, Tsutomu: *See—*
Kimura, Kenjiro; Negoro, Akio; Kojima, Yasuo; and Saiji, Tsutomu,3,427,797.
Saikawa, Isamu: *See—*
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko,3,455,913.
Saikawa, Toshihiko: *See—*
Yamamoto, Naonari; Masuda, Mitsuo; Saikawa, Toshihiko; Tsubota, Akira; Shida, Yasuo; and Matsumura, Toshiji,3,440,688.
Saiki Chuzosho: *See—*
Saiki, Koichiro, 3,481,267.
Saiki, Hiroshi, to Denver Fire Clay Company, The. High temperature kiln. 3,476,368, 11-4-69, Cl. 263-20.
Saiki, Koichiro, to Saiki Chuzosho, and NMS Industries, Inc. Combined grill and skewer fixture. 3,481,267, 12-2-69, Cl. 99-339.
Saiki, Takashi: *See—*
Arima, Kei; Tamura, Gakuzo; Narasaki, Teiiti; Nakamura, Yoshio; and Saiki, Takashi,3,431,175.
Saiko, Alphons: *See—*
Spieldiener, Robert; and Saiko, Alphons,3,473,279.
Saila, Tauno, to Sundstrand Corporation. Hydraulic pump or motor unit. 3,465,680, 9-9-69, Cl. 103-38.
Sailer, Richard: *See—*
Berther, Clau; and Sailer, Richard,3,476,744.
Gehring, Albert; and Sailer, Richard,3,435,068.
Sailhen, Pierre Max, dit Kleber-Sailhen. Undergarments for patients suffering from herniae. 3,454,003, 7-8-69, Cl. 128-96.
Sain, Bernard S. Ladder stabilizers. 3,456,757, 7-22-69, Cl. 182-111.
Sainsbury & Parkinson, Limited: *See—*
Sainsbury, John, 3,437,214.
Sainsbury, Jeffrey J., to Fords (Finsbury) Limited. Apparatus for detecting dirt in transparent bottles. 3,478,221, 11-11-69, Cl. 250-223.
Sainsbury, John, to Sainsbury & Parkinson, Limited. Shelves. 3,437,214, 4-8-69, Cl. 211-90.
Saint Pauls Church, The Rector, Church Wardens and Vestrymen of: *See—*
Justice, Mary E., 3,431,958.
Saint Quentin, Roger: *See—*
Tisserand, Henri Andre; and Saint Quentin, Roger,3,438,535.
Saint-Gobain Techniques Nouvelles: *See—*
Kikindai, Tivadar; and Burgaud, Jean Loup, 3,479,281.
Sainty, Christopher Lawrence, to Structural Concrete Components Limited. Method of forming precast concrete structural components. 3,458,610, 7-29-69, Cl. 264-69.
Sair, Louis, to Griffith Laboratories, Incorporated, The. Production of proteinates. 3,440,054, 4-22-69, Cl. 99-14.
Saisho, Takao: *See—*
Ito, Hiroya; and Saisho, Takao,3,424,775.
Saithoh, Minoru: *See—*
Marumo, Hideo; and Saithoh, Minoru,3,448,128.
Saito, Bunjiro; and Suga, Tateo, to Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric Works, Ltd.). Reversible stepping motor with braking coils and biasing permanent magnets. 3,439,200, 4-15-69, Cl. 310-49.
Saito, Bunjiro: *See—*
Tomota, Miyaji; and Saito, Bunjiro,3,441,821.
Saito, Etsuro: *See—*
Doi, Tatsumi; Mineshima, Teruo; and Saito, Etsuro,3,480,361.
Saito, Gosaku,: *See—*
Ueno, Akira; Matsuzaki, Etsuko; Momoki, Yoshio,; Ishimaru, Yoshino,; Saito, Gosaku,; and Sakai, Sumio,,3,420,859.
Saito, Hikotaro. Constant speed drive control system for automobiles. 3,439,770, 4-22-69, Cl. 180-105.
Saito, Hisashi, to Matsushita Electric Industrial Co., Ltd. Secret SCA communication systems and apparatus. 3,478,169, 11-11-69, Cl. 179-15.
Saito, Ichiro: *See—*
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro,3,425,359.
Saito, Ichiro; Saito, Kazuo; and Tanaka, Takeshi, to Kanegafuchi Chemical Industry Co., Ltd. Process for manufacturing diene graft copolymers. 3,446,873, 5-27-69, Cl. 260-880.
Saito, Isamu: *See—*
Batchelor, Gordon S.; Kishi, Kiyoshi; Iwauchi, Shigeki; and Saito, Isamu,3,443,929.
Saito, Katsuya: *See—*
Kubo, Kikuo; and Saito, Katsuya,3,460,097.
Saito, Kazuo: *See—*
Saito, Ichiro; Saito, Kazuo; and Tanaka, Takeshi,3,446,873.
Saito, Koichi: *See—*
Oda, Zenjiro; Saito, Koichi; Asamaki, Tatsuo; and Mori, Tokio,3,436,332.
Saito, Michiaki: *See—*
Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao,3,477,999.
Saito, Nagao: *See—*
Maeda, Sachio; and Saito, Nagao,3,461,056.
Saito, Nobuyoshi. Attachment for an automobile trunk for carrying living things. 3,423,125, 1-21-69, Cl. 296-76.
Saito, Seiichi: *See—*
Shiroki, Kenichi; and Saito, Seiichi,3,446,602.
Saito, Shizuko: *See—*
Ishida, Shinichi; and Saito, Shizuko,3,422,074.
Ishida, Shinichi; Fukuda, Horomichi; and Saito, Shizuko,3,457,233.
Kobayashi, Hidehiko; Ohama, Hiroshi; and Saito, Shizuko,3,433,773.
Saito, Shoichi, to Olympus Optical Co., Inc. Tape driving device. 3,433,425, 3-18-69, Cl. 242-55.12
Saito, Tadao: *See—*
Inose, Hiroshi; and Saito, Tadao,3,446,917.
Inose, Hiroshi; and Saito, Tadao,3,461,242.
Inose, Hiroshi; Fujisake, Harova; and Saito, Tadao,3,483,330.
Saito, Tadashi: *See—*
Okuda, Noriyuki; Kuniyoshi, Ieji; Saito, Tadashi; and Oguri, Koji,3,480,645.
Saito, Takeshi: *See—*
Kawamori, Yoshiaki; Matsuura, Masahiko; Saito, Takeshi; and Miyamura, Yoshinobu,3,458,401.
Saito, Tokuji: *See—*
Nakamura, Hiroshi; Manmo, Shiro; Ishizaki, Yasutaro; Saito, Tokuji; and Kato, Kin,3,473,288.
Saito, Toshizumi. Two-key lock. 3,473,355, 10-21-69, Cl. 70-339.
Saito, Yoshihiro: *See—*
Takai, Hideo; Hayashi, Shigeru; and Saito, Yoshihiro,3,473,747.
Saizelet, Jean Michel. Index file for photographic negatives with built in viewer. 3,442,039, 5-6-69, Cl. 40-106.1
Saizescu, Nastase: *See—*
Ghita, Dumitru; Saizescu, Nastase; and Bolintineanu, Razvan,3,485,605.
Sajar Plastics, Inc.: *See—*
Johnson, Tom W.; Stropkay, Edward J.; and White, James D., 3,430,260.
Saji, Yasuo: *See—*
Yamada, Kozo; Saji, Yasuo; Yamamoto, Ichiro; and Ikegami, Shigeru,3,485,913.
Sakach, Joseph M., Jr.: *See—*
Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr.,3,445,350.
Klinger, Kenneth A.; Randall, John J.; and Sakach, Joseph M., Jr.,3,479,160.
Sakaguchi, Adio: *See—*
Okuya, Eitaro; Sakaguchi, Adio; Komatsu, Kouei; Kikuchi, Tatsuhiko; Yasunaga, Hidetoshi; and Andueda, Kenichi,3,432,515.
Sakaguchi, Akio: *See—*
Okuya, Eitaro; Ito, Tokuo; Sakaguchi, Akio; Komatsu, Koei; and Yasunaga, Hidetoshi,3,454,680.
Sakaguchi, Edwin M.: *See—*
Canonico, Domenic A.; Sakaguchi, Edwin M.; and Wellers, Charles A. W.,3,458,683.
Sakaguchi, Yasuhiro: *See—*
Konishi, Hikoichi; Harada, Yuichi; Sunahara, Tamotsu; Sakaguchi, Yasuhiro; and Ishihara, Tetsuo,3,459,591.
Sakai, Chiyoji, 20% to Tsutsumi, Eizaburo. Tuyere with elongated outlet port. 3,425,678, 2-4-69, Cl. 266-41.
Sakai, Fumio; and Aoki, Chihiro, to Elmo Company Limited. Small-sized motion-picture projector. 3,427,100, 2-11-69, Cl. 352-79.
Sakai Kasei Kogyo Kabushiki Kaisha, (Sakai Chemical Industry Co., Ltd.): *See—*
Takagi, Haruo; and Yamagishi, Yasuo, 3,450,585.
Sakai, Kenji: *See—*
Iba, Akikazu; and Sakai, Kenji,3,435,655.
Sakai, Kunio: *See—*
Yamashita, Tadaoki; Sakai, Kunio; Nada, Naohiro; and Kitamura, Saburo,3,485,766.
Sakai Manufacturing Co., Ltd.: *See—*
Sakai, Yoshitaka, 3,421,783.
Sakai, Yoshitaka, 3,478,610.
Sakai, Masakatsu: *See—*
Kawashima, Masao; Sakai, Masakatsu; and Kobayashi, Toshio,3,432,683.
Sakai, Masao: *See—*
Banno, Hisao; Maeda, Shoji; Tsunooka, Tsutomu; and Sakai, Masao,3,464,924.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, to Takeda Chemical Industries, Ltd. Dithio amino alkanes. 3,444,186, 5-13-69, Cl. 260-327.
Sakai, Shizuyoshi: *See—*
Ishii, Yoshio; and Sakai, Shizuyoshi,3,446,752.

Sakai, Sukeyoshi, to Fujitsu Limited. Ferromagnetic thin film memory device. 3,487,385, 12-30-69, Cl. 340-174.

Sakai, Sumio,: *See—*
Ueno, Akira; Matsuzaki, Etsuko; Momoki, Yoshio,; Ishimaru, Yoshino,; Saito, Gosaku,; and Sakai, Sumio,,3,420,859.

Sakai, Syoji: *See—*
Shimai, Junichiro; Matsui, Isamu; Kawamura, Syuzo; and Sakai, Syoji,3,476,328.

Sakai, Tadao: *See—*
Terashima, Yahachi; Yasuda, Yukio; and Sakai, Tadao,3,481,742.

Sakai, Tadashi: *See—*
Oda, Zenjiro; and Sakai, Tadashi,3,424,936.

Sakai, Takeo: *See—*
Hayakawa, Yoshihide; Sakai, Takeo; and Nishio, Daijiro,3,482,980.

Sakai, Yoshinori; and Hori, Takashi, to Maruzen Oil Company, Limited. Process for preparing over-based sulfurized calcium phenates. 3,464,970, 9-2-69, Cl. 260-137.

Sakai, Yoshitaka, to Sakai Manufacturing Co., Ltd. Shock-absorbing key for rotary body. 3,421,783, 1-14-69, Cl. 287-52.05

Sakai, Yoshitaka, to Sakai Manufacturing Co., Ltd. Stepless transmission using elastic rolling mechanism. 3,478,610, 11-18-69, Cl. 74-230.17

Sakai, Yuji; and Nakayama, Ryoichi, to Matsushita Electronics Corporation. Television receiver high voltage power supply protection circuit. 3,433,896, 3-18-69, Cl. 178-7.3

Sakaki, Fumio; and Nakamura, Toshimitsu, to Elmo Company Limited. Cartridge-type motion picture camera having automatically adjustable film gate. 3,434,783, 3-25-69, Cl. 352-72.

Sakakibara, Naotaka: *See—*
Nagao, Morimasa; and Sakakibara, Naotaka,3,469,120.

Sakakibara, Seizaburo: *See—*
Kuwabara, Michichika; Nawata, Kiyoshi; Tsunawaki, Kiyokazu; and Sakakibara, Seizaburo,3,432,476.

Sakakibara, Shigeru: *See—*
Noguchi, Masaaki; and Sakakibara, Shigeru,3,453,907.

Sakakibara, Shumpei, 1/2 to Ajinomoto Co., Inc., and 1/2 to Tanabe Seiyaku Co., Ltd., mesne. Tert-amyloxycarbonyl derivatives of amino acids. 3,445,447, 5-20-69, Cl. 260-112.5

Sakakibara, Yasumasa: *See—*
Kunichika, Sango; and Sakakibara, Yasumasa,3,466,324.
Kunichika, Sango; Sakakibara, Yasumasa; and Taniuchi, Mamoru,3,454,667.

Sakalay, Fred E., to International Business Machines Corporation. Memory systems for using storage device containing bits. 3,422,402, 1-14-69, Cl. 340-172.5

Sakalay, Fred E., to International Business Machines Corporation. Memory pulse program. 3,436,744, 4-1-69, Cl. 340-174.

Sakamoto, Eiichi: *See—*
Sato, Shui; Sakamoto, Eiichi; and Sakurai, Setsuji,3,475,174.

Sakamoto, Hidesato. Heating furnace with a rotary hearth. 3,455,542, 7-15-69, Cl. 263-7.

Sakamoto, Kazuhiko: *See—*
Suzuki, Reiichi; Takubo, Tadashi; Shioyama, Yutaka; Sakamoto, Kazuhiko; and Tahara, Tadasu,3,471,539.

Sakamoto, Kenzo. Bookshelf divider and holder. 3,450,268, 6-17-69, Cl. 211-42.

Sakamoto, Kuniaki: *See—*
Minekawa, Saburo; Yamaguchi, Koretaka; and Sakamoto, Kuniaki,3,470,144.

Sakamoto, Masaiti, to Anzen Jidoshå Kabushiki Kaisha. Apparatus for checking the wheel alignment of an automobile. 3,453,740, 7-8-69, Cl. 33-203.13

Sakamoto, Masakatsu; and Seki, Hidehiko, to Hitachi, Ltd. Apparatus for hydraulically transporting granular solid material. 3,449,013, 6-10-69, Cl. 302-14.

Sakamoto, Masao: *See—*
Sugahara, Yujiro; Usui, Koichi; Naito, Hiroyuki; and Sakamoto, Masao,3,471,252.

Sakamoto, Mitchell T. Separable vase assembly. 3,477,175, 11-11-69, Cl. 47-41.13

Sakamoto, Shoichi: *See—*
Mizutani, Yasuo; Sakamoto, Shoichi; and Ishibashi, Yasuaki,3,431,166.

Sakamoto, Toemon. Apparatus for cutting weft yarn ends under tension on a shuttleless loom. 3,461,920, 8-19-69, Cl. 139-302.

Sakamoto, Toshiro, to Tokyo Shibaura Electric Co., Ltd. Semiconductor devices. 3,486,082, 12-23-69, Cl. 317-234.

Sakamoto, Yoshichika. Slide viewer. 3,419,984, 1-7-69, Cl. 40-106.1

Sakamoto, Yoshichika. Slide-holding frame and a file plate for filing such frames. 3,466,126, 9-9-69, Cl. 353-108.

Sakamoto, Yoshio, to Shimadzu Seisakusko, Ltd. Apparatus for exchanging the filament of an electron gun. 3,470,412, 9-30-69, Cl. 313-237.

Sakamoto, Yosio: *See—*
Osawa, Hideo; Sakamoto, Yosio; and Kondo, Masayuki,3,477,291.

Sakamoto, Yuzaburo: *See—*
Yoshida, Hisashi; Sakamoto, Yuzaburo; and Hosaka, Takeshi,3,428,872.

Sakata, Ryozo: *See—*
Onishi, Akira; Ishikawa, Takao; Sakata, Ryozo; Fujio, Ryota; and Tsuruta, Teiji,3,467,624.

Sakata, Shigeo: *See—*
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.

Sakazaki, Tadazumi: *See—*
Uno, Naoyuki; Sakazaki, Tadazumi; and Suzuki, Minoru,3,451,323.

Sakazume, Akio: *See—*
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; Akiyama, Mitsuo; and Kikuchi, Ukichi,3,420,592.
Ogata, Kyoichi; Ogawa, Hiroyuki; Sakazume, Akio; and Odagaki, Fukuichi,3,460,353.

Sakharova, Elena Vladimirovna: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Sakimoto, Reiji: *See—*
Taniguchi, Kanji; Asada, Mitsuo; and Sakimoto, Reiji,3,474,167.
Uebayashi, Yuzuru; Sakimoto, Reiji; Ishii, Keiichiro; Asada, Mitsuo; and Taniguchi, Takuzo,3,427,385.

Sakinaga, Nobumasa: *See—*
Sugiura, Shotaro; Tasaka, Fumio; Ueno, Haruo; Kono, Minoru; Katagiri, Nobuyuki; and Sakinaga, Nobumasa,3,459,726.

Sako, Kiyoshi: *See—*
Nozawa, Masao; Sako, Kiyoshi; and Ueda, Hiroshi,3,446,188.

Sakoda, Shunsuke: *See—*
Kawamoto, Takuya; Sakoda, Shunsuke; and Hattori, Mitsuhiro,3,449,726.

Saks, Walter R. Process and apparatus for manufacturing flocked fabric. 3,436,442, 4-1-69, Cl. 264-24.

Saksagansky, Alexandr Teodorovich: *See—*
Krylov, Nikolai Ivanovich; Popov, Boris Vasilievich; Sidorov, Pavel Ivanovich; Saksagansky, Alexandr Teodorovich; Levitsky, Isaak Iosifovich; and Golovkina, Tatyana Borisovna,3,428,096.

Saksun, John L. Piston. 3,464,323, 9-2-69, Cl. 92-243.

Sakuma, Masao, to Kabushiki Kaisha Keihin Seiki Seisakusho. Metering valve. 3,431,944, 3-11-69, Cl. 138-45.

Sakuma, Takashi: *See—*
Matsushita, Akira; Sakuma, Takashi; and Sekiya, Mitsuo,3,441,916.

Sakuma, Youukou. Tile-setting frame apparatus. 3,434,257, 3-25-69, Cl. 52-387.

Sakuraba, Ryozo: *See—*
Doi, Mineo; Miura, Masamichi; Sakuraba, Ryozo; and Ando, Takeo,3,429,692.

Sakuragi, Johji: *See—*
Kawahara, Masao; Ono, Yoshitsugu; and Sakuragi, Johji,3,427,613.

Sakuragi, Taketami; Jyo, Yoshio; Akiyama, Shinichi; and Minami, Shoichiro, to Japanese Geon Company, Ltd., The. Method of adhesion. 3,454,446, 7-8-69, Cl. 156-310.

Sakurai, Hiroshi, to Amano Corporation. Secondary clock apparatus. 3,462,941, 8-26-69, Cl. 58-26.

Sakurai, Kozi: *See—*
Ozeki, Saburoji; Kimura, Kenji; Shimasaki, Soichi; Izuhara, Torao; Kadota, Osamu; and Sakurai, Kozi,3,444,806.

Sakurai, Setsuji: *See—*
Sato, Shui; Sakamoto, Eiichi; and Sakurai, Setsuji,3,475,174.

Sakurai, Shinichi: *See—*
Oshima, Akio; Sakurai, Shinichi; and Matsuo, Tetsuo,3,461,179.

Sakurai, Tokio: *See—*
Kominami, Naoya; Nakajima, Hitoshi; Watanabe, Itaru; Kimura, Takeo; and Sakurai, Tokio,3,465,028.

Sakurai, Yoshiaki; Ishizawa, Teruo; Ishida, Shuichi; and Sekine, Bunzo, to Nippon Kayaku Kabushiki Kaisha. Halogenated allylthio-s-triazines. 3,449,342, 6-10-69, Cl. 260-249.8

Sakuta, Toru: *See—*
Kobayashi, Harumi; and Sakuta, Toru,3,448,896.

Sakwa, Paul. Hanger for flexible tube containers. 3,446,468, 5-27-69, Cl. 248-108.

Sala, Gregory J. Hair grooming comb. 3,446,216, 5-27-69, Cl. 132-116.

Salada Foods Ltd.: *See—*
Sigman, Theodore, 3,463,642.

Salaman, Roy George; and Taylor, Robert J., to Phonocopy, Inc., mesne. Process for electro-junction thermography. 3,441,940, 4-29-69, Cl. 346-1.

Salamone, James V. Adapter in combination with a receptacle. 3,459,372, 85-69, Cl. 236-93.
Salas-Humara, Carlos: *See—*
Dosal, Martin R.; and Salas-Humara, Carlos,3,479,981.
Salat, Carlos Ferrer; Batlle, Jorge Ferrer; and Riera, Juan Colome. Phenolsulfonic acid derivatives of tetracycline antibiotics. 3,459,800, 8-5-69, Cl. 260-559.
Salat, Carlos Ferrer; Batlles, Jorge Ferrer; and Riera, Juan Colome. Mannich bases of tetracycline compounds and carnosine. 3,429,869, 2-25-69, Cl. 260-112.5
Salat, Carlos Ferrer; Battles, Jorge Ferrer; and Riera, Juan Colome. Method of treatment with modified tetracycline compounds and composition therefor. 3,439,091, 4-15-69, Cl. 424-177.
Salat, Vaclav: *See—*
Vit, Jaroslav; Prochazka, Vladimir; and Salat, Vaclav,3,460,821.
Salatiello, Peter P.; and Dollman, Stephen C., to Allied Chemical Corporation. Polytetrafluoroethylene extrusion compositions and extrusion process. 3,434,996, 3-25-69, Cl. 260-33.8
Salaun, Harold L., Jr.: *See—*
Kotter, James I.; Salaun, Harold L., Jr.; Wallace, Eugene F.; and Lanigan, James P., Jr.,3,458,904.
Salazar, Francis R.: *See—*
Grosbard, Gregory, 3,480,811.
Salazkin, Sergei Nikolaevich: *See—*
Korshak, Vasily Vladimirovich; Vinogradova, Svetlana Vasilievna; Salazkin, Sergei Nikolaevich; and Bereza, Svetlana Veniaminovna,3,480,597.
Salce, Luigi C.: *See—*
Ostergren, Arthur G.; and Salce, Luigi C.,3,440,706.
Salcedo Gumucio, Ricardo, to Yardney International Corporation. Battery comprising a carbon anode containing a radioactive catalyst. 3,468,714, 9-23-69, Cl. 136-86.
Salcman, Arthur: *See—*
Saunders, Charles E.; and Salcman, Arthur,3,435,987.
Saleck, Wilhelm: *See—*
Huckstadt, Harald; Saleck, Wilhelm; Ulrich, Hans; Randolph, August; and Grabhofer, Herbert,3,434,842.
Huckstadt, Harold; Saleck, Wilhelm; Randolph, August; and Ranz, Erwin,3,471,296.
Saleck, Wilhelm; Lassig, Wolfgang; and Posse, Rolf-Fred, to Agfa-Gevaert Aktiengesellschaft. Photographic emulsions containing mercury compounds and azaindenes. 3,432,304, 3-11-69, Cl. 96-109.
Saleeby, Edward W.: *See—*
Deutsch, Daniel H.; Green, Stanley E.; Murray, John D.; and Saleeby, Edward W.,3,425,912.
Salehar, Milena L.: *See—*
Miller, Arthur F.; and Salehar, Milena L.,3,468,624.
Salem Equipment, Inc.: *See—*
Reed, Gaylard O., 3,473,584.
Salem Tool Company, The: *See—*
Horning, Frederick G., 3,435,928.
Salem Valve Company: *See—*
Ney, Andrew V., 3,422,852.
Salem-Brosius (Canada), Limited: *See—*
Wilde, James D.; and Feuer, Paul H., 3,450,394.
Salem-Brosius, Inc.: *See—*
Kemmerer, John L., Jr.; and Buschow, Edward G., 3,470,068.
Kemmerer, John L., Jr.; and Buschow, Edward G., 3,475,286.
Salen & Wicander AB: *See—*
Ajnefors, Karl Gunnar, 3,420,444.
Salensky, George A., to Union Carbide Corporation. Curable, thixotropic compositions based on cycloaliphatic diepoxides and dimers of unsaturated fatty acids. 3,449,274, 6-10-69, Cl. 260-18.
Salera, Edmond A., to General Motors Corporation. Electronic module assembly and connector means therefor. 3,443,160, 5-6-69, Cl. 317-101.
Saleri, Arturo: *See—*
Saleri, Pierino; and Saleri, Arturo,3,443,816.
Saleri, Pierino; and Saleri, Arturo. Seal assembly for a ball-type valve. 3,443,816, 5-13-69, Cl. 277-112.
Salerni, John V.; and de Rochemont, John F., to Baker Oil Tools, Inc. Port collar and operating tool therefor. 3,455,380, 7-15-69, Cl. 166-115.
Sales & Services Inc.: *See—*
Dills, Reuben H.; and Wilson, Earl, 3,486,684.
Sales, Peter Malcolm, to Humphreys & Glasgow Limited. Process for the manufacture of nitric acid. 3,450,498, 6-17-69, Cl. 23-162.
Salet, Thomas E., to Stow-Easy Display & Mfg. Co. Collapsible display cases. 3,434,769, 3-25-69, Cl. 312-258.
Saletzki, Jacob S.: *See—*
Beasley, Neil D.; Whitehurst, Gerald E.; Saletzki, Jacob S.; Lofthouse, Fred R.; and Weber Robert L.,3,452,610.
Dunston, Robert D.; Whitehurst, Gerald E.; and Saletzki, Jacob S.,3,429,623.
Saletzki, Jacob S.; and Keys, Marvin C., to United States of America, Army, mesne. Water pump and method of assembly. 3,474,733, 10-28-69, Cl. 103-103.
Saletzki, Jacob S.; and Reichel, Richard F., to United States of America, Navy. Prechamber mounting. 3,453,993, 7-8-69, Cl. 123-32.
Salewski, Gunter: *See—*
Meisel, Christian; Salewski, Gunter; and Bock, Rudolf,3,445,585.
Salfer, Clinton F. Automatic releasing fishline float. 3,425,151, 2-4-69, Cl. 43-43.11
Salgado, Peter G., to United States of America, Atomic Energy Commission. High temperature stress free thermocouple junction. 3,441,451, 4-29-69, Cl. 136-232.
Salhofer, Josef Ferdinand, to Sohne, Joh. Kleinewefers. Method of making foils of thermoplastic synthetic materials. 3,429,959, 2-25-69, Cl. 264-175.
Saligny, Claude; and Lyonnet, Jaques, to Societe Rhodiaceta. Process for the preparation of vapor-permeable polyurethane films. 3,449,153, 6-10-69, Cl. 117-63.
Salihi, Jalal T.; and Spix, George J., to General Motors Corporation. Slip frequency combining apparatus. 3,471,764, 10-7-69, Cl. 318-231.
Saline Water Conversion Corporation: *See—*
Kehoe, Edward Charles, 3,454,471.
Roe, Ralph C., 3,438,202.
Roe, Ralph C., 3,471,178.
Salis, Theodore. Non-reuseable vaginal cleansing apparatus. 3,454,007, 7-8-69, Cl. 128-232.
Salisbury, Frank R., to Eastman Kodak Company. Pressure operated expansion valve. 3,485,268, 12-23-69, Cl. 137-608.
Salisbury, Lloyd L., Jr., to United States of America, Army. Prosthetic device with electronic proportional control grasp. 3,423,765, 1-28-69, Cl. 3-1.1
Salisbury, Wilfred: *See—*
Scott, James H. S.; and Salisbury, Wilfred,3,426,373.
Salisbury, Winfield W., to Zenith Radio Corporation. Method and apparatus for producing high temperatures by a magnetic field surrounding an electric arc. 3,437,862, 4-8-69, Cl. 313-161.
Salisky, Sallyann Z., to International Playtex Corporation. Girdle. 3,437,092, 4-8-69, Cl. 128-542.
Salivar, Charles J.; and Stade, John H., to Mallinckrodt Chemical Works. Analytical package and method. 3,446,596, 5-27-69, Cl. 23-230.
Salje, Ernst: *See—*
Clausen, Rolf; Kleimenhagen, Gunter; and Salje, Ernst,3,460,412.
Salkind, Alvin J.: *See—*
MacKenzie, Murdo James, Jr.; and Salkind, Alvin J.,3,484,291.
Salkind, Harry. Support and combination concealed storage unit. 3,454,317, 7-8-69, Cl. 312-21.
Salkoff, Goodwin; and Nusbaum, Elmer R., to Atlas Metal Industries, Inc. Combined hinge mounting and shelf. 3,421,458, 1-14-69, Cl. 108-134.
Salkowski, Martin J.: *See—*
Dravnieks, Andrew; and Salkowski, Martin J.,3,430,482.
Sallach, Max E., to Addressograph-Multigraph Corporation. Apparatus and method for circuit control from stored data. 3,470,358, 9-30-69, Cl. 235-61.11
Sallay, Stephen I.: *See—*
Childress, Scott J.; and Sallay, Stephen I.,3,452,029.
Childress, Scott J.; and Sallay, Stephen I.,3,481,930.
Sallay, Stephen I.; and Childress, Scott J., to American Home Products Corporation. Nortropine derivatives. 3,470,187, 9-30-69, Cl. 260-292.
Sallay, Stephen, to American Home Products Corporation. Octahydro-5H-1-benzazepin-5-one, cyclic ethylene ketals. 3,467,673, 9-16-69, Cl. 260-340.9
Sallay, Stephen, to American Home Products Corporation. Aminothioamides. 3,474,100, 10-21-69, Cl. 260-268.
Salle, Robert; Sillion, Bernard; and de Gaudemaris, Gabriel, to Institut Francais du Petrole des Carburants et Lubrifiants. Poly-2-arylcarbamoyl benzimidazoles and process of preparing same. 3,470,140, 9-30-69, Cl. 260-78.
Saller, Rudolf: *See—*
Pastoors, Eduard; and Saller, Rudolf,3,459,122.
Salley, Ernest J.; and Jones, William H., to General Electric Company. Frequency shift keying by driving incremental phase shifter with binary counter at a constant rate. 3,421,088, 1-7-69, Cl. 325-163.
Sallmann, Alfred: *See—*
Pfister, Rudolf; Sallmann, Alfred; and Hammerschmidt, Winrich,3,455,999.
Salman, Naif D., to North American Rockwell Corporation. Semiconductor amplifier. 3,458,828, 7-29-69, Cl. 330-24.
Salmans, Robert R., to Ceramics of Kansas, Inc. Shelter associated with automotive passenger vehicle. 3,438,670, 4-15-69, Cl. 296-23.
Salmet, Gaston, to U.S. Philips Corporation, mesne. Radio-transmission system. 3,440,353, 4-22-69, Cl. 179-15.
Salmi, John Isaac. Emergency signal balloon apparatus. 3,425,390, 2-4-69, Cl. 116-124.

Salmi, Robert W., to United States Steel Corporation. Magnetic separator. 3,426,897, 2-11-69, Cl. 209-223.
Salmon, Benjamin Jean Marcel: *See—*
Bertin, Jean Henri; and Salmon, Benjamin Jean Marcel,3,459,137.
Salmon, Benjamin, to Commissariat a l'Energie Atomique. Centrifuges. 3,463,388, 8-26-69, Cl. 233-1.
Salmon, Jacques A., to CSF-Compagnie Generale de Telegraphie Sans Fil. Electronic scanning antennas used in electromagnetic detection. 3,478,359, 11-11-69, Cl. 343-100.
Salmon, Joe E.: *See—*
Merkel, Charles M.; Salmon, Joe E.; and Brugh, Thomas H.,3,475,879.
Salmon, Leonard O.: *See—*
Smith, George H.; and Salmon, Leonard O.,3,465,376.
Salmons, Terence J., to Washington, George, Limited, mesne. Activity detectors. 3,439,358, 4-15-69, Cl. 340-258.
Salners, Edward A.: *See—*
Oeler, Richard C.; and Salners, Edward A.,3,486,077.
Salo, Bruce H.: *See—*
Salo, Henry W.; Salo, Bruce H.; and Salo, William R.,3,447,988.
Salo, Eric A., to Eryx Corporation. Reactance protection apparatus and method. 3,436,600, 4-1-69, Cl. 317-20.
Salo, Eric A., to Eryx Corporation. Asynchronous load limiting transformer. 3,470,459, 9-30-69, Cl. 323-52.
Salo, Eric A., to Eryx Corporation. Means for protecting electrical systems against frequency variation. 3,486,033, 12-23-69, Cl. 307-39.
Salo, Henry W.; Salo, Bruce H.; and Salo, William R., to FMC Corporation. Film-surfaced panel and method for manufacturing the same. 3,447,988, 6-3-69, Cl. 156-229.
Salo, William R.: *See—*
Salo, Henry W.; Salo, Bruce H.; and Salo, William R.,3,447,988.
Salomon, Georges P. J. Safety strap for ski. 3,452,999, 7-1-69, Cl. 280-11.35
Salomon, Georges P. J. Resilient binding for skis. 3,455,570, 7-15-69, Cl. 280-11.35
Salomon, Georges P. J. Ski harness having a rear safety member operable by a resetting pedal. 3,477,735, 11-11-69, Cl. 280-11.35
Salomon, Georges P. J. Rear safety bindings. 3,481,615, 12-2-69, Cl. 280-11.35
Salomon, Georges P. J. Safety binding straps for skis. 3,481,617, 12-2-69, Cl. 280-11.35
Salomon, Jacob. Method and apparatus for packaging bags. 3,445,980, 5-27-69, Cl. 53-26.
Salomon, Roger, to Ducellier & Cie. Method of adjusting an electromagnetic circuit breaker. 3,452,428, 7-1-69, Cl. 29-593.
Salomon, Roger, to Ducellier & Cie. Ignition distributor for internal combustion engines. 3,452,728, 7-1-69, Cl. 123-117.
Salomon, Roger, to Ducellier & Cie. Ignition distributor for internal combustion engines. 3,482,559, 12-9-69, Cl. 123-146.5
Salomon, Salomon M., to Beloit Corporation. Dual pressure stock screen. 3,456,793, 7-22-69, Cl. 209-273.
Salomon, Salomon M., to Beloit Corporation. Sensing device for slice delivery to fourdrinier wire. 3,464,887, 9-2-69, Cl. 162-263.
Salomone, Georges, to Societe SEFA. Products for cleaning stone, bricks, concrete and other constructional materials. 3,481,879, 12-2-69, Cl. 252-136.
Salomonsson, Hans Manne Alvar: *See—*
Lundin, Lars Olof; and Salomonsson, Hans Manne Alvar,3,477,339.
Salov, Sergei Fedorovich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Salsburg, John E.: *See—*
Book, Bernard S.; and Salsburg, John E.,3,457,738.
Salsburg Laboratories: *See—*
Vatne, Robert D.; and Baron, Robert R., 3,439,097.
Salsbury Laboratories: *See—*
Berndt, Edward W.; and Vatne, Robert D., 3,424,845.
Salter, Albert F.: *See—*
Wiegand, Hans; and Salter, Albert F.,3,429,700.
Salter, Calvin R.: *See—*
Pascoe, Kenneth H.; and Salter, Calvin R.,3,435,349.
Salter, Forrest O., to United States of America, Atomic Energy Commission. Method of encoding binary digital data. 3,461,237, 8-12-69, Cl. 178-68.
Salter, Frank Michael: *See—*
Laws, William Robert; Holt, Henry Christopher; and Salter, Frank Michael,3,469,827.
Salter, Horace R. One-way freewheeling clutch. 3,433,337, 3-18-69, Cl. 192-46.
Salter, Roy; Petrie, Harold Lishman; and Williamson, Ian, to Formica International Limited. Metal-clad laminates. 3,450,595, 6-17-69, Cl. 161-215.
Saltiel, Joseph Pepo. Device for assembling textile goods and especially for closing the toes on seamless stockings. 3,457,885, 7-29-69, Cl. 112-27.
Saltiel, Joseph Pepo, to Wimbledon Organization Ltd. Machine for automatically marking, cutting and counting small items of wearing apparel such as hosiery. 3,482,743, 12-9-69, Cl. 223-1.
Saltman, William M.: *See—*
Smith, Geoffrey H.; and Saltman, William M.,3,466,140.
Throckmorton, Morford C.; and Saltman, William M.,3,446,787.
Throckmorton, Morford C.; and Saltman, William M.,3,446,788.
Throckmorton, Morford C.; and Saltman, William M.,3,483,177.
Salton, Jerome R., to Alliancewall Corporation. Heat resistant wall. 3,453,793, 7-8-69, Cl. 52-461.
Saltsman, Robert D., to Bituminous Coal Research Inc. Dust collector. 3,443,364, 5-13-69, Cl. 55-237.
Saltz, Ira: *See—*
Yarme, Howard; and Saltz, Ira,3,433,183.
Saltz, John R.: *See—*
Nelson, John E.; and Saltz, John R.,3,439,376.
Saltzberg, Burton R.: *See—*
Holzman, Louis N.; and Saltzberg, Burton R.,3,475,626.
Saltzberg, Burton R., to Bell Telephone Laboratories, Incorporated. Timing recovery circuit using time derivative of data signals. 3,440,548, 4-22-69, Cl. 328-151.
Saltzberg, Theodore: *See—*
Dame, John S.; and Saltzberg, Theodore,3,454,927.
Saltzberg, Theodore; and Terry, Richard N., to Motorola, Inc. Central to remote station signalling system. 3,445,815, 5-20-69, Cl. 340-163.
Saltzman, Gilbert Allen: *See—*
Moskowitz, Arthur; and Saltzman, Gilbert Allen,3,455,681.
Salutsky, Murrell L.: *See—*
Dunseth, Maria G.; and Salutsky, Murrell L.,3,421,877.
Salutsky, Murrell L., to Grace, W. R., & Co. Evaporator saline feed water treatment for scale control. 3,444,054, 5-13-69, Cl. 203-7.
Salvagnini, Guido. Hydraulic control devices for bending presses. 3,438,239, 4-15-69, Cl. 72-453.
Salvajor Company, The: *See—*
Sherman, George O., Jr., 3,436,027.
Salvato, Joseph: *See—*
Chin, Henry; and Salvato, Joseph,3,465,173.
Salvatore G. Militana: *See—*
Riggles, William M., Jr., 3,422,446.
Salvatori, Albert H. Welded drill blade stabilizer. 3,447,839, 6-3-69, Cl. 308-4.
Salvemini, Antonio: *See—*
Smai, Franco; and Salvemini, Antonio,3,475,496.
Salvesen, William R. Key retaining device. 3,478,550, 11-18-69, Cl. 70-459.
Salvesen, William R., to Segal Products Co., Inc. Coin orienting arrangement. 3,486,511, 12-30-69, Cl. 133-1.
Salvi, A., & Co. S.p.A.: *See—*
Claren, Rodolfo, 3,432,610.
Salvi, Antoine, to Commissariat a l'Energie Atomique. Nuclear magnetic resonance magnetometers of the spin coupling oscillator type. 3,441,838, 4-29-69, Cl. 324-0.5
Salvi, Antoine; and Glenat, Henri, to Commissariat a l'Energie Atomique. Methods and devices for compensation of parasitic magnetic fields, in particular on an aircraft carrying a magnetometer. 3,441,841, 4-29-69, Cl. 324-43.
Salvisberg, Erwin: *See—*
Brugger, Roger H.; and Salvisberg, Erwin E., 3,420,017.
Salvisberg, Erwin E.: *See—*
Brugger, Roger H.; and Salvisberg, Erwin E.,3,420,017.
Salvo, Anthony, to Dura-Last Shingle Corp. Artificial siding for use in a building construction. 3,420,024, 1-7-69, Cl. 52-316.
Salway, Keith, to Clutsom & Kemp Limited. Raschel warp knitting machine. 3,464,235, 9-2-69, Cl. 66-86.
Salyer, Ival O.: *See—*
Holladay, Harry P.; and Salyer, Ival O.,3,433,573.
Salyer, Ival O.; and Glasgow, David Gerald, to United States of America, Atomic Energy Commission. Adhesive bonding. 3,442,745, 5-6-69, Cl. 156-332.
Salyer, Ival O.; and Glasgow, David Gerald, to United States of America, Atomic Energy Commission, mesne. Method for adhesively bonding heavy metals. 3,481,814, 12-2-69, Cl. 156-314.
Salyer, Ival O.; and Glasgow, David Gerald, to Monsanto Research Corporation. Glass reinforced epoxy anhydride polymers. 3,481,823, 12-2-69, Cl. 161-93.
Wilson, Harry S.; Glasgow, David Gerald; and Salyer, Ival O.,3,481,822.
Salzberg, Harold K.: *See—*
Loshaek, Samuel; and Salzberg, Harold K.,3,421,918.
Salzer, George W.; Derr, Chester B.; and Cristina, Joseph F., to Prym, William, Inc. Dispensing blister package with closable opening in the blister member. 3,421,615, 1-14-69, Cl. 206-44.12
Salzgitter Maschinen Aktiengesellschaft: *See—*
Theermann, Hans; Kotyza, Heinrich; and Schiedeck, Werner, 3,472,555.

Salzgitter Stahlbau G.m.b.H.: *See—*
Schumann, Eduard; and Horn, Heinz, 3,465,897.
Salzman, Paul. Footwear holder. 3,441,967, 5-6-69, Cl. 12-120.5
Salzman, Robert: *See—*
Wasserman, Saul; Salzman, Robert; and O'Keefe, Walter C.,3,464,356.
Salzmann, Ferdinand F., to Graber Manufacturing Company, Inc. Drapery rod fixture with carrier gate. 3,453,682, 7-8-69, Cl. 16-87.4
Salzmann, Ferdinand F.: *See—*
Graber, Joseph V.; and Salzmann, Ferdinand F.,3,470,578.
Sam, Hubert. Hair styling net. 3,420,248, 1-7-69, Cl. 132-49.
Samaga, Wilhelm, to Linde Aktiengesellschaft. Yieldable wall assembly for the transportation of low-temperature fluids. 3,486,286, 12-30-69, Cl. 52-410.
Samaga, Wilhelm: *See—*
Progler, Hans; Samaga, Wilhelm; Ehms, Hermann; and Eickemeyer, Rudolf,3,459,148.
Sambeth, Joerg; and Archipoff, Alexis, to Elekal. Method of producing hydrophilic polyurethane foam employing a monoalkoxypolyethylene glycol. 3,432,448, 3-11-69, Cl. 260-2.5
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre, to Elekal. Hydrophilic polyurethane foams from alcohol aldehydes. 3,451,953, 6-24-69, Cl. 260-2.5
Sambeth, Joerg; Archipoff, Alexis; and Godechot, Jean Pierre, to Elekal. Hydrophilic polyurethane foams from quaternary ammonium salts of N-disubstituted amino alcohols. 3,451,954, 6-24-69, Cl. 260-2.5
Sambeth, Joerg: *See—*
Grundschober, Friedrich; and Sambeth, Joerg,3,477,868.
Samejima, Hirotoshi; Nagano, Yuji; and Ohta, Shigenori, to Kyowa Hakko Kogyo Co., Ltd. Method for isolating tryptophan. 3,450,712, 6-17-69, Cl. 260-326.14
Samejima, Horotoshi; Teranishi, Hiroshi; and Deguchi, Takashi, to Kyowa Hakko Kogyo Co., Ltd., (Kyowa Hakko Kogyo Kabushiki Kaisha). Process for the recovery of nicotinic acidamide- adenine dinucleotide. 3,435,026, 3-25-69, Cl. 260-211.
Samejima, Yukihide: *See—*
Matsumoto, Masato; Samejima, Yukihide; and Watanabe, Kazunari,3,426,162.
Sameljuk, Jury Fedorovich: *See—*
Gargala, Gennady Georgievich; Kozlov, Alexandr Vasilievich; Kotlyarevsky, Alexandr Portirievich; Koshman, Vitaly Ivanovich; Nedosekov, Svyatoslav Semenovich; Posternak, Mikhail Ilich; Sameljuk, Jury Fedorovich; and Khorunzhy, Valentin Alexeevich,3,457,462.
Samelson, Harold: *See—*
Brecher, Charles; Lempicki, Alexander; and Samelson, Harold,3,454,901.
Sames, Delbert W.: *See—*
Goodman, Robert C.; and Sames, Delbert W.,3,452,627.
Goodman, Robert C.; and Sames, Delbert W.,3,480,222.
Sames, Delbert W., to GAF Corporation. Apparatus and method for reproducing long originals. 3,472,106, 10-14-69, Cl. 83-13.
Sames, Delbert W., to GAF Corporation. Apparatus and method for preventing paper jams. 3,474,692, 10-28-69, Cl. 83-13.
Samhammer, Clair A.: *See—*
Milette, Kenneth A.; and Samhammer, Clair A.,3,477,623.
Samhat, Jack K. Combined optical sight and center punch. 3,482,324, 12-9-69, Cl. 33-189.
Samios, John L., to Bell Telephone Laboratories, Incorporated. Telephone switchhook mechanism. 3,440,366, 4-22-69, Cl. 179-164.
Samluk, Stanley D.: *See—*
Kim, Charles W.; and Samluk, Stanley D.,3,470,285.
Sammarco, Peter; and Everett, Charles V., to International Harvester Company. Gravity type fertilizer spreader. 3,425,599, 2-4-69, Cl. 222-177.
Sammartino, Francesco: *See—*
Zunino, Mario; Corsi, Giannino; and Sammartino, Francesco,3,425,350.
Sammis, Phillip S. Toy bird. 3,435,555, 4-1-69, Cl. 46-104.
Sammons, Douglas Charles. Coiled spring assemblies. 3,429,072, 2-25-69, Cl. 49-203.
Samodai, Gyula L.; and Smith, John S., to Schlumberger Technology Corporation. Apparatus for recording well logging signals. 3,449,755, 6-10-69, Cl. 346-33.
Samodai, Gyula L.; and Weeks, Richard F., to Schlumberger Technology Corporation. Parallel recording system for sequential information. 3,475,761, 10-28-69, Cl. 346-33.
Samodai, Gyula L.: *See—*
Weeks, Richard F.; and Samodai, Gyula L.,3,431,552.
Samoilenko, Galina Vladimirovna: *See—*
Gendrikov, Eduard Pavlovich; Enalev, Vsevolod Dmitrievich; and Samoilenko, Galina Vladimirovna,3,445,535.
Samorodova, Galina Alexandrovna: *See—*
Golant, Mikhail Borisovich; Negirev, Alexandr Andreevich; Tager, Alexandr Semnovich; Pobedonostsev, Alexandr Sergeevich; Zjulina, Elena Aristarkhovna; and Samorodova, Galina Alexandrovna,3,436,690.
Samour, Carlos M., to Schjeldahl, G. T., Company, The, mesne. Method of treating polyester films. 3,475,194, 10-28-69, Cl. 117-47.
Samour, Carlos M., to Kendall Company, The. Emulsion polymerization of N-alkyl amic acid and alkyl acrylates or alkyl methacrylates. 3,483,155, 12-9-69, Cl. 260-29.6
Sampatacos, Peter M., to General Motors Corporation. Method for the integrated welding and heat treating of hardenable parts. 3,482,296, 12-9-69, Cl. 29-148.4
Sampeys, Alfred Marcos: *See—*
Bull, Eric William; and Sampeys, Alfred Marcos,3,466,586.
Sampietro, Achille C.: *See—*
Barnes, John V.; and Sampietro, Achille C.,3,451,497.
Sampietro, Achille C., to Ford Motor Company. Automotive vehicle driveline having an internal combustion engine and multiple split torque delivery paths. 3,456,751, 7-22-69, Cl. 180-54.
Sampietro, Achille C., to Ford Motor Company. Mechanism for balancing reciprocating masses of internal combustion engines. 3,468,190, 9-23-69, Cl. 74-604.
Hoyt, Kenneth L.; and Sampietro, Achille C.,3,469,649.
Sample, Clarence H.: *See—*
Di Bari, George A.; Sample, Clarence H.; and Knapp, Burton B.,3,449,224.
Sample, William J.: *See—*
Downey, George T.; and Sample, William J.,3,442,384.
Sample, William J.; and Downey, George T., to Aero-Flow Dynamics, Inc. Free flow filter bypass valve. 3,451,551, 6-24-69, Cl. 210-90.
Sampo, Robert A.; and Sampo, Tony A. Ram-actuated telescoping hollow arm. 3,445,015, 5-20-69, Cl. 214-138.
Sampo, Tony A.: *See—*
Sampo, Robert A.; and Sampo, Tony A.,3,445,015.
Sampson, Arnold, to Sampson Corporation, The. Extra-cortical clamp with detachable tensioning tool for internal fixation of bone fractures. 3,477,429, 11-11-69, Cl. 128-92.
Sampson Corporation, The: *See—*
Sampson, Arnold, 3,477,429.
Sampson, Jay B.; and Woo, James J., to International Business Machines Corporation. Data storage module selector assembly. 3,453,567, 7-1-69, Cl. 335-17.
Sampson, Merritt B., to S-P Manufacturing Corporation, The. Hydraulic cylinder. 3,439,925, 4-22-69, Cl. 279-4.
Sampson, Merritt B., to S-P Manufacturing Corporation, The. Chuck. 3,468,551, 9-23-69, Cl. 279-4.
Sampson, Merritt B.; and Young, Alan H., to S-P Manufacturing Corporation, The. Chuck. 3,464,712, 9-2-69, Cl. 279-120.
Sampson, Merritt B.; and Young, Alan H., to S-P Manufacturing Corporation, The. Piston ring construction. 3,481,612, 12-2-69, Cl. 277-141.
Sampson, Roy John: *See—*
Bell, William Hamilton; Rennie, Robert Allan Campbell; and Sampson, Roy John,3,458,520.
Sampson, William B.; Britton, Richard B.; Kruger, P. Gerald; and Beth, Richard A., to United States of America, Atomic Energy Commission. Multipole magnet having a sequentially shim stepped coil configuration. 3,423,706, 1-21-69, Cl. 335-216.
Sampson, William B.: *See—*
Britton, Richard B.; Robins, Kenneth E.; and Sampson, William B.,3,432,783.
Sams, Gary L.: *See—*
Cowal, Alexander R.; Sams, Gary L.; and Sollie, William H.,3,438,662.
Sams, James K.: *See—*
Paterson, James G. T.; Smith, Ashley P.; and Sams, James K.,3,461,800.
Sams, Robert H.; and McCready, Newton W., to Philadelphia Quartz Company. Expanded silicate particles. 3,450,547, 6-17-69, Cl. 106-75.
Sams, Robert H.; and McCready, Newton W., to Philadelphia Quartz Company. Expanded silicate insulation. 3,466,221, 9-9-69, Cl. 161-133.
Samsel, Richard W., to General Electric Company. Optical readout systems. 3,449,961, 6-17-69, Cl. 74-5.6
Samsing, Rolf A., to Gillette Company, The. Display device. 3,429,451, 2-25-69, Cl. 211-72.
Samson Plastics, Inc.: *See—*
Segal, Herbert A., 3,429,369.
Segal, Herbert A., 3,470,944.
Segal, Herbert A., 3,471,869.
Segal, Herbert A., 3,471,870.
Samson, Robert, to United States of America, National Aeronautics and Space Administration. Sealed cabinetry. 3,447,850, 6-3-69, Cl. 312-296.
Samson Window Corporation: *See—*
Rothemund, Wilhelm F., 3,474,572.
Samsonite Corporation: *See—*
Ellsworth, Arthur W.; Fujioka, Robert K.; and Uyeda, Tim M., 3,431,871.
Hewett, Oscar C., 3,444,034.
Milette, Kenneth A.; and Uyeda, Tim M., 3,438,467.
Milette, Kenneth A.; and Samhammer, Clair A., 3,477,623.

Winter, Roger D., 3,432,012.
Samtleben, Hans-Wolfgang: *See—*
Stahle, Helmut; Kummer, Werner; Koppe, Herbert; Zeile, Karl; Hoefke, Wolfgang; and Samtleben, Hans-Wolfgang,3,480,630.
Samuel, Alan J., to FMC Corporation. Reaction propulsion system. 3,420,204, 1-7-69, Cl. 115-1.
Samuel Bingham Company: *See—*
Karmell, Yale; and Geiger, Kermit K., 3,451,112.
Samuel, Eva Lea, to Monsanto Chemicals (Australia) Limited. N,N-disubstituted benzimazole-2-carbonamidines and a process for their preparation. 3,475,447, 10-28-69, Cl. 260-309.2
Samuel, Eva Lea; and Ennis, Brian Colwell, to Monsanto Chemicals(Australia)Limited. Trissubstituted methylbenzimidazoles. 3,479,368, 11-18-69, Cl. 260-309.2
Samuel, Eva Lea: *See—*
Holan, George; and Samuel, Eva Lea,3,457,351.
Holan, George; and Samuel, Eva Lea,3,482,022.
Holan, George; and Samuel, Eva L.,3,448,115.
Holan, George; and Samuel, Eva L.,3,472,863.
Samuel, Francois F., to Societe Generale d'Optique. Process and apparatus for the detection of flaws in a transparent material. 3,475,615, 10-28-69, Cl. 250-219.
Samuel, Herbert John, to Davy and United Engineering Company Limited. Extrusion. 3,478,561, 11-18-69, Cl. 72-270.
Samuels, Bertram J.: *See—*
Smith, Charles D.; and Samuels, Bertram J.,3,442,766.
Samuels, George A. Resilient automobile side bumper. 3,472,546, 10-14-69, Cl. 293-1.
Samuels, Jack E., to Dow Chemical Company, The. Rice package. 3,446,631, 5-27-69, Cl. 99-171.
Samuels, Peter B.: *See—*
Wood, Ernest C., 3,439,522.
Wood, Ernest C., 3,439,523.
Samuels, Sherwood C., Jr., to Phillips Petroleum Company. Removal of impurities from aromatic oils and tars. 3,481,865, 12-2-69, Cl. 208-251.
Samuelson, Robert W., to Bliss, E. W., Company. Anti-coincidence load control circuit. 3,457,430, 7-22-69, Cl. 307-41.
Samuelson, Wallace H. Piezo-electric crystal manufacturing apparatus and method for location of atomic planes relative to the crystal surface. 3,448,265, 6-3-69, Cl. 250-51.5
Samuelsson, Rune Paul: *See—*
Andblad, Kjell Ingemar; Anvarn, Verner Valfrid; Samuelsson, Rune Paul; Odebo, Nils Einar; and Wetterberg, Erik Ernst Waldemar,3,481,107.
Samuelsson, Stig Erland. Device at garment hangers. 3,463,370, 8-26-69, Cl. 223-95.
Samusenko, Anatol G., to RCA Corporation. Ferroelectric control circuits. 3,457,455, 7-22-69, Cl. 315-176.
Samuta, Osamu: *See—*
Kaneko, Kansaku; Fujiwara, Toshimasa; Samuta, Osamu; Miyasaka, Takao; and Kitamura, Kenichi,3,458,740.
Samways, Bruce; and Shore, Donald Arthur, to Colodense Limited. Production of sealed filled envelopes. 3,425,185, 2-4-69, Cl. 53-182.
San Angelo Die Casting and Manufacturing Co., Inc.: *See—*
Hart, Raymond V., 3,477,587.
San Antonio Chemicals, Inc.: *See—*
Jones, Roy E., 3,432,156.
San Diego Aircraft Engineering, Inc.: *See—*
McVicker, Graham D.; and Fink, Frank W., 3,419,979.
San Diego Gas & Electric Company: *See—*
Bartel, Richard F., 3,421,168.
San Diego State College Foundation: *See—*
Wick, Arne N.; and Murphy, Patrick J., 3,456,059.
San Fernando Electric Mfg., Co.: *See—*
Rosenberg, Michael A., 3,458,783.
San Marino Electronic Corporation: *See—*
Husome, Robert G., 3,434,594.
San Roy Development Co., Inc.: *See—*
Celesia, Jerry J., 3,422,770.
San-Ei Sokki Kabushikikaisha (San-Ei Instrument Co., Ltd.): *See—*
Mochizuki, Masaji, 3,482,431.
Sanborn, Charles E.: *See—*
Overcashier, Robert H.; and Sanborn, Charles E.,3,464,967.
Sanborn, Frederic R. G.: *See—*
Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D.,3,450,261.
Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Parry, Robert D.,3,469,774.
Sanchez, Earl J.: *See—*
Fleming, Joseph D.; Sanchez, Earl J.; Farris, Charles L.; and Notley, Norman T.,3,440,083.
Sanchez, Gildardo G., to Impulsora de Patentes Industriales, S.A. Automatic reducer of fluid flow at low pressure. 3,444,885, 5-20-69, Cl. 137-504.
Sanchez, John, to International Telephone and Telegraph Corporation. Pressure equalizing valve. 3,441,050, 4-29-69, Cl. 137-493.6
Sanchez, Moises G.: *See—*
Mac Cragh, Adolfo; Sanchez, Moises G.; and Smith, Jean G.,3,431,097.
Sanchez, Pascual Jose M. Oscoz. Structures for supporting collapsible table-tops. 3,455,255, 7-15-69, Cl. 108-33.
Sanchez, Pascual Jose M. Oscoz. Structures of folding tables. 3,456,600, 7-22-69, Cl. 108-33.
Sanchez, Pascual Jose M. Oscoz. Folding structure for extendible pieces of furniture. 3,473,492, 10-21-69, Cl. 108-79.
Sanchez, Pascual Jse M. Oscoz. Doors for pieces of furniture with collapsible tabletops. 3,456,601, 7-22-69, Cl. 108-38.
Sancier, Kenneth M.: *See—*
Morrison, Stanley R.; Sancier, Kenneth M.; and Freund, Thomas,3,433,964.
Sanctuary, Robert E. Variable torque valve actuator. 3,460,799, 8-12-69, Cl. 251-30.
Sand, Darrel R., to General Motors Corporation. Water cooled flexible brake shoe including friction materials of different braking characteristics. 3,473,636, 10-21-69, Cl. 188-250.
Sand, Leonard B., to Norton Company. Synthetic mordenite and preparation thereof. 3,436,174, 4-1-69, Cl. 23-113.
Sand, Max; and Cvejanovich, George J., to Esso Research and Engineering Company. Apparatus for measuring the electrical conductivity of corrosive fluids. 3,447,070, 5-27-69, Cl. 324-30.
Sand, Robert T. Vehicle traction device. 3,478,803, 11-18-69, Cl. 152-225.
Sandager, William, to Leesona Corporation. Support apparatus. 3,430,876, 3-4-69, Cl. 242-46.4
Sandages Injections Forages Entreprise P. Bachy: *See—*
Dupeuble, Paul; and Seguy, Pierre Marie Leon, 3,484,082.
Sandamp Systems, Inc.: *See—*
Richardson, Albert S., Jr., 3,440,328.
Sandbank, Carl Peter, to International Standard Electric Corporation. Solid state scanning system. 3,434,008, 3-18-69, Cl. 315-169.
Sandbank, Carl Peter, to International Standard Electric Corporation. Microwave generators. 3,453,502, 7-1-69, Cl. 317-234.
Sandbank, Carl Peter; and Butler, Michael Brian Neilson, to International Standard Electric Corporation. Scanned line radiation source using a reverse biased P-N junction adjacent a gunn diode. 3,447,044, 5-27-69, Cl. 317-234.
Sandbank, Carl Peter; King, George; and Marsh, Stanley Bruce, to International Standard Electric Corporation. Series operated gunn effect devices. 3,479,611, 11-18-69, Cl. 331-52.
Sandberg, Bert Ragnar Evert. Cutting machine including product moving means. 3,426,631, 2-11-69, Cl. 83-82.
Sandberg, Carl L.: *See—*
Rice, David E.; and Sandberg, Carl L.,3,438,953.
Sandefur, Douglas M., to Sandefur Engineering Co., Inc. Slide and bumper strip for assembly tables. 3,446,326, 5-27-69, Cl. 193-38.
Sandefur Engineering Co., Inc.: *See—*
Sandefur, Douglas M., 3,446,326.
Sandell Manufacturing Company, Inc.: *See—*
Kellman, Irving H., 3,470,662.
Sander, Nils Borje Lennart: *See—*
Larsson, Karl Bertil; and Sander, Nils Borje Lennart,3,430,740.
Presson, Gert Artur; and Sander, Nils Borje Lennart,3,430,739.
Sander, Wendell B.; and Van Den Heuvel, Raymond, to Tasker Instruments Corporation. Character and symbol generator with ramp voltage input. 3,440,639, 4-22-69, Cl. 340-324.
Sander, Wolfgang, to Konus-Kessel Gesellschaft fur Warmetechnik m.b.H. & Co. K. G. Boiler for heating combustible fluids. 3,432,247, 3-11-69, Cl. 431-117.
Sandermann, Wilhelm; and Bruns, Klaus, to Givaudan Corporation. Odorants of the amber type and process for the manufacture thereof. 3,427,328, 2-11-69, Cl. 260-340.9
Sanders Associates, Inc.: *See—*
Ayer, Donald R.; and Lowe, William R., 3,470,469.
Blitz, Daniel, 3,439,333.
Bouchard, Richard; Billings, Philip; and Horn, Richard A., 3,423,626.
Bouchard, Richard J., 3,482,309.
Durocher, Hector R.; Wentworth, James A.; and Baer, Ralph H., 3,433,442.
Gabor, William D., 3,430,169.
Geddry, Bernard L.; Mehron, Martin E.; and Cote, Maurice F., 3,474,358.
Hayner, Paul F.; and Sharpe, Lawrence W., 3,433,126.
Hayner, Paul F.; and Sharpe, Lawrence W., 3,433,129.
Hayner, Paul F.; and Sharpe, Lawrence W., 3,447,566.
Hayner, Paul F.; and Babikyan, Jirair A., 3,464,057.
Hayner, Paul F.; and Eldridge, David G., 3,479,925.
Hugel, Fred, 3,438,590.
Hugel, Fred, 3,459,390.
Hungerford, Joel C., 3,484,704.
Hurkamp, Alan C., 3,430,047.
McKesson, Lewis J., 3,453,622.
Miville, Charles A.; and Hugel, Fred, 3,451,635.
Pappas, George W., 3,452,223.
Petersen, Rudolph S., 3,442,278.
Poirier, Armand R.; and Newkirk, Terry F., 3,422,371.
Racy, Joseph E., 3,461,395.
Richmond, Martin R., 3,422,432.
Shomphe, George J.; Tabor, Robert W.; and Lalmond, Harold W., 3,423,574.

Shomphe, George J., 3,483,616.
Sowers, Walker Morgan, 3,460,556.
Stein, Bernard; and Weinberg, Melvin S., 3,422,808.
Stromswold, Chester, 3,447,159.
Stromswold, Chester; and Purington, Ronald G., 3,465,345.
Struckman, Keith A., 3,484,695.
Tally, Sidney K.; and Stearns, Thomas H., 3,446,908.
Wagner, Walter D.; King, Philip E.; Caloccia, Ernest; and Robbins, Robert, 3,470,483.
Wieting, Terence J.; Lawrence, Thomas R.; and Naiman, Charles S., 3,421,374.

Sanders, Charles J.; and Merkatoris, John R., to Paper Converting Machine Company. Apparatus and method for transverse heat-sealing plastic webbing. 3,466,979, 9-16-69, Cl. 93-8.

Sanders, Charles J.: *See*—
Meade, Ross C.; and Sanders, Charles J.,3,438,324.

Sanders, Charles R.: *See*—
Markham, James D.; and Sanders, Charles R.,3,451,633.

Sanders, David Charles: *See*—
Reeves, John R.; and Sanders, David Charles,3,441,745.

Sanders, Davis H.; and Kennedy, James M., 1/3 to Keith, Wayland D. High volume, electro-magnetic, reciprocating pump mechanism. 3,437,043, 4-8-69, Cl. 103-53.

Sanders, Davis H.; and Kennedy, James M., 1/3 to Keith, Wayland D. Fluid cooled, double solenoid pumping mechanism. 3,437,044, 4-8-69, Cl. 103-53.

Sanders, Douglas O.; and Finneman, George S., to National Iron Company. Mobile log slasher. 3,455,352, 7-15-69, Cl. 143-46.

Sanders, Ellsworth E., to Pinckney Molded Plastics, Inc. Nest and stack container. 3,481,507, 12-2-69, Cl. 220-97.

Sanders, Frederick W., to Mead Corporation, The. Electrophotographic recording element. 3,425,830, 2-4-69, Cl. 96-1.5

Sanders, Frederick W., to Mead Corporation, The. Electrophotographic materials and process of producing same. 3,434,834, 3-25-69, Cl. 96-1.8

Sanders, Frederick W., to Mead Corporation, The. Process for producing coating on paper base having electrophotographic properties. 3,472,673, 10-14-69, Cl. 117-34.

Sanders, George S.: *See*—
Pickell, Phillip R., 3,441,055.

Sanders, Grover E. Litter back pack assembly. 3,486,671, 12-30-69, Cl. 224-6.

Sanders, Herbert L., to Varney Chemical Corporation. Sucrose based surfactants as aids in sugar refining and sugar crystallization processes. 3,476,598, 11-4-69, Cl. 127-58.

Sanders, James A., Jr., to Dow Chemical Company, The. Bonding of compressed graphite structures. 3,475,244, 10-28-69, Cl. 156-83.

Sanders, John T., III: *See*—
Shriver, William F.; Sanders, John T., III; Pike, John A.; and Angle, Henry W.,3,472,042.

Sanders, Joseph A., to Allegheny Ludlum Steel Corporation. Automatic spiral index mechanism. 3,422,725, 1-21-69, Cl. 90-11.62

Sanders, Katherine B. Fabric clamp. 3,482,340, 12-9-69, Cl. 38-12.

Sanders, Laurence R., Jr.: *See*—
Jones, Stanley C.; Sanders, Laurence R., Jr.; Tosch, William C.; and Wenger, Charles B.,3,477,511.

Sanders, Marion D.; and Kealy, Joseph P., to Swift & Company. Utilization of phosphoric acid sludge. 3,457,061, 7-22-69, Cl. 71-40.

Sanders, Marshall E., to Zenith Radio Corporation. Cathode-ray tube magnetic shield and tube mount. 3,431,454, 3-4-69, Cl. 315-8.

Sanders, Mathias: *See*—
Koppl, Georg; and Sanders, Mathias,3,443,142.

Sanders, Melvin C., 55% to Uhler, Lewis K. Water ski towrope reel. 3,420,466, 1-7-69, Cl. 242-86.5

Sanders, Merwyn, to United States of America, Atomic Energy Commission. Vehicle actuated roadside air sampling device. 3,422,681, 1-21-69, Cl. 73-421.5

Sanders, Norman H., Jr.; and Sanders, Raymond. Apparatus for aerating loose particles. 3,435,540, 4-1-69, Cl. 34-174.

Sanders, Norman Thomas, to Needle Industries Limited. Holders for needles and like articles. 3,444,995, 5-20-69, Cl. 206-66.

Sanders Nuclear Corporation: *See*—
Beake, Frederick A., 3,457,390.
Fitzgerald, Joseph J.; and Mayo, Kenneth E., 3,432,386.
Fitzgerald, Joseph J., 3,438,855.

Sanders, Petrus Wilhelmus: *See*—
Hendriks, Adrianus Anthonius Maria; Klopping, Carel Peter; Van Hout, Franciscus Adrianus; and Sanders, Petrus Wilhelmus,3,473,068.

Sanders, Ray W., to Space-General Corporation. Phase locked crystal controlled voltage variable oscillator. 3,480,865, 11-25-69, Cl. 325-419.

Sanders, Ray W.; Broderick, Donald L.; and Curl, Garold W., to Aerojet-General Corporation, mesne. FM sweep signal detection and signal quality evaluation circuit. 3,486,118, 12-23-69, Cl. 325-65.

Sanders, Raymond: *See*—
Sanders, Norman H., Jr.; and Sanders, Raymond,3,435,540.

Sanders, Richard C.: *See*—
Grainger, William G.; and Sanders, Richard C.,3,456,813.

Sanders, Richard F.: *See*—
Giovanetti, Albert; and Sanders, Richard F.,3,460,957.

Sanders, Robert G., to Litton Systems, Inc. Method of rapidly detecting microorganisms. 3,451,893, 6-24-69, Cl. 195-103.5

Sanders, Robert K.: *See*—
Nelson, Robert E.; Green, Russell D.; and Sanders, Robert K.,3,482,396.

Sanders, Robert M.: *See*—
Hill, Le Roy D.; and Sanders, Robert M.,3,444,706.

Sanders, Robert W.: *See*—
Mayle, Louis F.; and Sanders, Robert W.,3,478,270.

Sanders, Roy Oliver. Conveying apparatus. 3,475,058, 10-28-69, Cl. 302-29.

Sanders, Terry D., to Westinghouse Electric Corporation. Electrical power supply apparatus. 3,440,435, 4-22-69, Cl. 307-66.

Sanders, Thomas M.: *See*—
Schellstede, Herman J.; and Sanders, Thomas M.,3,458,922.
Schellstede, Herman J.; and Sanders, Thomas M.,3,484,122.

Sanders, Vernard W.: *See*—
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W.,3,459,448.
Russell, Fred J.; Armstrong, Richard L.; and Sanders, Vernard W.,3,469,876.

Sanders, Wes E.; and Allen, John W., to Stanray Corporation. Hinged hopper and gondola car roof. 3,461,818, 8-19-69, Cl. 105-377.

Sanderson, Brenda: *See*—
Cotton, Joseph Bernard; and Sanderson, Brenda,3,469,074.

Sanderson, George H., to United States of America, Army, mesne. Cross-correlation radar. 3,480,956, 11-25-69, Cl. 343-13.

Sanderson, John W., to Globe Valve Corporation. Paddle valve. 3,460,565, 8-12-69, Cl. 137-555.

Sanderson, John W., to Globe Valve Corporation. Single handle ball valve faucet. 3,472,279, 10-14-69, Cl. 137-625.41

Sanderson, Leonard Watson. Control attachment for rotating shaft roller to control the movement of material. 3,469,756, 9-30-69, Cl. 226-177.

Sanderson, Robert A., to United Aircraft Corporation. Fuel cell system with automatic control means. 3,473,963, 10-21-69, Cl. 136-86.

Sanderson, William R.: *See*—
King, Charles R.; and Sanderson, William R.,3,421,424.

Sandgren, Jan Erik, to Stenberg-Flygt AB. Device for in-phase connection of a load to an electric polyphase system. 3,467,833, 9-16-69, Cl. 307-93.

Sandgvist, Bo Anders, to Velasques Nederland N.V. Cigar making machine. 3,456,653, 7-22-69, Cl. 131-32.

Sandhage, Ellsworth Roland; and Taylor, Arthur Sinclair, to American Cyanamid Company. Harvesting biologicals from eggs. 3,420,743, 1-7-69, Cl. 195-104.

Sandhage, Ellsworth R.: *See*—
Taylor, Arthur S.; and Sandhage, Ellsworth R.,3,439,588.
Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William,3,453,804.

Sandidge, Othel W. Rotary engine. 3,429,301, 2-25-69, Cl. 123-16.

Sandiford, Denis James Henry; and Kail, John Alan Elliott, to Imperial Chemical Industries Limited. Thermoplastic film production. 3,470,274, 9-30-69, Cl. 264-22.

Sandin, Raymond C.; and Schmitt, Charles H., to General Electric Company. Cabinet having reversibly mountable doors. 3,430,386, 3-4-69, Cl. 49-382.

Sandler, Jack, to Air Reduction Company, Incorporated. Method of making heat-insulated bottle. 3,462,327, 8-19-69, Cl. 156-86.

Sandler, Stanley Robert; and Berg, Florence Ray, to Borden Company, The. Polyglycidol process. 3,425,960, 2-4-69, Cl. 260-2.

Sandler, Stanley Robert; and Berg, Florence Ray, to Borden Company, The. Method of making polyesters by the reaction of anhydride acid halide with polyols and resultant adhesive compositions. 3,437,671, 4-8-69, Cl. 260-346.3

Sandler, Stanley Robert; Berg, Florence Ray; and Kitazawa, George, to Borden Company, The. Adhesively bonded metal surfaces and method of making same. 3,442,752, 5-6-69, Cl. 161-186.

Sandler, Stanley Robert; and Leonard, Edward Charles, to Borden Company, The. Polymerization of aldehydes in the presence of anhydrous polar solvents and alkali metal alkoxide catalysts. 3,422,072, 1-14-69, Cl. 260-67.

Sandler, Yehuda L.: *See*—
Beer, Sylvan Z.; and Sandler, Yehuda L.,3,458,360.

Sandmann, Fritz: *See*—
Van Riet, Josef H.; Stummer, Wilfried; Sandmann, Fritz; and Gallin, Constantin,3,440,990.

Sandner, Raymond J.: *See*—
Lauzon, James Nelson; Sandner, Raymond J.; and Bildsoe, Jorgen S.,3,458,026.

Sando Iron Works Co., Ltd.: *See*—
Sando, Yoshikazu; and Nakaba, Kiyoshi, 3,448,498.
Sando, Yoshikazu; and Nakaba, Kiyoshi, 3,468,617.
Sando, Yoshikazu; and Mori, Shigeru, 3,481,684.

Sando, Yoshikazu; and Mori, Shigeru, to Sando Iron Works Co., Ltd. Process for refining and bleaching textile fabrics, threads and the like. 3,481,684, 12-2-69, Cl. 8-111.
Sando, Yoshikazu; and Nakaba, Kiyoshi, to Sando Iron Works Co., Ltd. Apparatus for singeing cloth. 3,448,498, 6-10-69, Cl. 26-3.
Sando, Yoshikazu; and Nakaba, Kiyoshi, to Sando Iron Works Co., Ltd. Gas fueled singeing burner. 3,468,617, 9-23-69, Cl. 431-350.
Sandor, Bela I. Clock with an illuminated dial. 3,430,433, 3-4-69, Cl. 58-50.
Sandor, Bela, to General Motors Corporation. Vehicle body door lock. 3,455,592, 7-15-69, Cl. 292-347.
Sandor, Bela, to General Motors Corporation. Adjustable connecting rod assembly. 3,467,415, 9-16-69, Cl. 287-3.
Sandor, Bela, to General Motors Corporation. Rack and pinion switch with tiltable bridging contact and stepped fixed contacts. 3,469,042, 9-23-69, Cl. 200-16.
Sandor, Ildiko: *See*—
Ecsery, Zoltan; Knoll, Jozsef; Kosa, Ildiko; Sandor, Ildiko; Somfai, Eva; and Torok, Sandor,3,485,874.
Sandor, Raymond P. Removable blind rivet. 3,438,302, 4-15-69, Cl. 85-84.
Sandoval, Charles A., to United States of America, Atomic Energy Commission. Solenoid actuated device. 3,421,125, 1-7-69, Cl. 335-253.
Sandow, Kiyoshi, to Plasteco, Inc. Self-flashing skylight curb construction. 3,461,625, 8-19-69, Cl. 52-58.
Sandow, Kiyoshi; Allen, George H.; and Anderton, Thomas L., to Plasteco, Inc. Smoke and heat vent. 3,461,607, 8-19-69, Cl. 49-7.
Sandoz A.G.: *See*—
Altermatt, Ruedi; and Mueller, Curt, 3,428,622.
Auerbach, Guenther; Schneider, Lukas; and Wehrli, Walter, 3,422,084.
Bengueral, Francois, 3,420,856.
Buecheler, Paul, 3,444,214.
Clough, Donald Keighley, 3,477,800.
Entschel, Roland; Mueller, Curt; and Wehril, Walter, 3,457,260.
Entschel, Roland; Mueller, Curt; and Wehrli, Walter, 3,459,728.
Jucker, Ernst; and Ebnother, Anton, 3,420,848.
Jucker, Ernst; and Suess, Rudolf, 3,423,415.
Jucker, Ernst; Lindenmann, Adolf; and Schenker, Erhard, 3,426,017.
Jucker, Ernst; Lindenmann, Adolf J.; and Gadient, Fulvio, 3,428,670.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; and Gadient, Fulvio, 3,432,491.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael, 3,466,290.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael, 3,466,291.
Jucker, Ernst; Ebnother, Anton; and Stoll, Andre, 3,474,105.
Jucker, Ernst; and Ebnother, Anton, 3,487,078.
Mueller, Curt; and Senn, Otto, 3,420,813.
Neier, Reinhard, 3,432,485.
Peter, Albin; and Mueller, Fred, 3,447,886.
Pfister, Xaver; and Steiner, Karl Ulrich, 3,428,637.
Pfister, Xaver, 3,436,401.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav, 3,474,099.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav, 3,478,022.
Scheitlin, Erwin, 3,441,556.
Schneider, Lukas, 3,484,431.
Sigg, Hans-Peter; and Loeffler, Wolfgang, 3,428,526.
Sigg, Hans-Peter; Flury, Erich; and Hauser, Daniel, 3,428,652.
Sigg, Hans-Peter; and Stoll, Christian, 3,432,598.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert, 3,422,110.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert, 3,428,639.
Troxler, Franz; and Hofmann, Albert, 3,471,515.
Troxler, Franz; and Hofmann, Albert, 3,479,371.
Wicki, Heinz; May, Max; and Badertscher, Markus, 3,472,605.
Zorn, Hermann; Hrach, Josef; and Zeschmar, Winfried, 3,477,989.
Sandoz Inc.: *See*—
Aeberli, Paul; and Houlihan, William J., 3,428,644.
Frey, Albert J.; Houlihan, William J.; and Manning, Robert E., 3,457,268.
Frey, Albert J.; and Galantay, Eugene E., 3,459,806.
Frey, Albert J.; and Manning, Robert E., 3,467,662.
Galantay, Eugene, 3,458,578.
Galantay, Eugene E.; and Ott, Hans, 3,424,796.
Galantay, Eugene E., 3,432,526.
Galantay, Eugene E., 3,441,567.
Galantay, Eugene E., 3,442,903.
Galantay, Eugene E., 3,449,428.
Galantay, Eugene E., 3,458,522.
Galantay, Eugene E., 3,458,577.
Galantay, Eugene E., 3,474,112.
Galantay, Eugene E., 3,487,155.
Griot, Rudolf G., 3,448,105.
Griot, Rudolf G., 3,448,110.
Griot, Rudolf G., 3,454,581.
Griot, Rudolf G., 3,454,584.
Griot, Rudolf G., 3,470,198.
Griot, Rudolf G., 3,474,128.
Griot, Rufolf G., 3,453,334.
Hardtmann, Goetz E.; and Ott, Hans, 3,435,038.
Hardtmann, Goetz E.; and Ott, Hans, 3,435,040.
Hardtmann, Goetz E., 3,459,750.
Hardtmann, Goetz E.; and Ott, Hans, 3,465,042.
Hardtmann, Goetz E.; and Ott, Hans, 3,470,182.
Houliham, William J., 3,454,585.
Houlihan, William J., 3,420,831.
Houlihan, William J., 3,420,832.
Houlihan, William J., 3,428,650.
Houlihan, William J.; Manning, Robert E.; and Theuer, William S., 3,435,034.
Houlihan, William J., 3,441,566.
Houlihan, William J., 3,441,572.
Houlihan, William J., 3,444,181.
Houlihan, William J., 3,454,592.
Houlihan, William J., 3,458,510.
Houlihan, William J., 3,470,180.
Houlihan, William J.; and Manning, Robert E., 3,478,051.
Manning, Robert E., 3,478,023.
Ott, Hans, 3,420,818.
Ott, Hans, 3,433,794.
Ott, Hans, 3,470,179.
Ott, Hans, 3,474,104.
Ott, Hans, 3,480,629.
Sandoz Ltd.: *See*—
Altermatt, Ruedi; and Mueller, Curt, 3,428,622.
Auerbach, Guenther; Schneider, Lukas; and Wehrli, Walter, 3,422,084.
Bengueral, Francois, 3,420,856.
Benz, Jakob; and Schweizer, August, 3,463,771.
Benz, Jakob; and Schweizer, August, 3,466,286.
Boissonnas, Roger; and Huguenin, Rene, 3,454,549.
Buecheler, Paul, 3,444,214.
Clough, Donald Keighley, 3,441,363.
Clough, Donald Keighley, 3,462,236.
Clough, Donald Keighley, 3,477,800.
Entschel, Roland; Mueller, Curt; and Wehril, Walter, 3,457,260.
Entschel, Roland; Mueller, Curt; and Wehrli, Walter, 3,459,728.
Guenthard, Jacques, 3,458,496.
Hochreuter, Richard; and Keller, Robert Christian, 3,466,278.
Hofmann, Albert; and Troxler, Franz, 3,450,763.
Jucker, Ernst; and Ebnother, Anton, 3,420,848.
Jucker, Ernst; and Suess, Rudolf, 3,423,415.
Jucker, Ernst; Lindenmann, Adolf; and Schenker, Erhard, 3,426,017.
Jucker, Ernst; Lindenmann, Adolf J.; and Gadient, Fulvio, 3,428,670.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; and Gadient, Fulvio, 3,432,491.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; Gadient, Fulvio; and Stoll, Andre, 3,438,976.
Jucker, Ernst; Ebnother, Anton; and Rissi, Erwin, 3,445,464.
Jucker, Ernst; and Lindenmann, Adolf J., 3,445,470.
Jucker, Ernst; and Lindenmann, Adolf J., 3,445,573.
Jucker, Ernst; and Lindenmann, Adolf J., 3,459,756.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre, 3,464,983.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre, 3,465,003.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael, 3,466,290.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michael, 3,466,291.
Jucker, Ernst; Ebnother, Anton; and Stoll, Andre, 3,474,105.
Jucker, Ernst; and Ebnother, Anton, 3,487,078.
Lindenmann, Adolf; Suess, Rudolf; and Troxler, Franz, 3,454,566.
Mueller, Curt; and Senn, Otto, 3,420,813.
Neier, Reinhard, 3,432,485.
Peter, Albin; and Mueller, Fred, 3,447,886.
Pfister, Xaver; and Steiner, Karl Ulrich, 3,428,637.
Pfister, Xaver, 3,436,401.
Renz, Jany; Bourquin, Jean Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav, 3,464,977.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav, 3,474,099.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav, 3,478,022.
Scheitlin, Erwin, 3,441,556.
Schneider, Lukas, 3,462,410.
Schneider, Lukas, 3,484,431.
Sigg, Hans-Peter; and Loeffler, Wolfgang, 3,428,526.
Sigg, Hans-Peter; Flury, Erich; and Hauser, Daniel, 3,428,652.
Sigg, Hans-Peter; and Stoll, Christian, 3,432,598.
Sigg, Hans-Peter; and Stoll, Christian, 3,465,079.

Stadler, Paul; Troxler, Franz; and Hofmann, Albert, 3,422,110.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert, 3,428,639.
Troxler, Franz; and Hofmann, Albert, 3,471,515.
Troxler, Franz; and Hofmann, Albert, 3,479,371.
Wicki, Heinz; May, Max; and Badertscher, Markus, 3,472,605.
Zorn, Hermann; Hrach, Josef; and Zeschmar, Winfried, 3,477,989.
Sandridge, Robert L., to Mobay Chemical Company. Stabilized organic isocyanate compositions. 3,479,393, 11-18-69, Cl. 260-453.
Sandrock, Dale D.: *See—*
Gideonsen, Arthur J.; and Sandrock, Dale D.,3,424,328.
Sandrock, Paul W. Drum for plating, blackening, pickling, and the like. 3,479,271, 11-18-69, Cl. 204-213.
Sandrock, Paul W. Apparatus for plating, blackening, pickling, stripping and the like. 3,479,272, 11-18-69, Cl. 204-213.
Sandrock, Paul W. Closure for plating drum. 3,484,360, 12-16-69, Cl. 204-213.
Sandrone, Bruno: *See—*
Ricciardi, Giuseppe; and Sandrone, Bruno,3,450,837.
Ricciardi, Giuseppe; and Sandrone, Bruno,3,465,100.
Ricciardi, Giuseppe; and Sandrone, Bruno,3,466,393.
Sands, David Harold; and Broome, Ronald, to Chemidus Plastics Limited. Tubing and piping of thermoplastics material. 3,484,900, 12-23-69, Cl. 18-19.
Sands, Eugene Arthur: *See—*
Chedaker, Joseph; Hoberg, George Gilbert; and Sands, Eugene Arthur,3,479,659.
Sands Measurement Corporation: *See—*
Cory, William E.; and Schrader, Melvin A., 3,446,298.
Sands, Robert: *See—*
Pietronuto, Joseph A.; and Sands, Robert,3,469,839.
Sands, Seymour: *See—*
Newby, William Edward; and Sands, Seymour,3,485,569.
Sandstead, Willard W. Cleaning mechanism for rod weeder. 3,437,153, 4-8-69, Cl. 172-39.
Sandstede, Gerd; Isenberg, Arnold; and Pabst, Wilfried, to Battelle-Institut e.v. High temperature fuel cell. 3,472,697, 10-14-69, Cl. 136-86.
Sandstrom, Clifford L., to Honeywell Inc. Condition responsive controlled rectifier circuit. 3,447,041, 5-27-69, Cl. 317-148.5
Sandstrom, Clifford L.; and Ting, Youn H., to Honeywell Inc. Defrost control apparatus. 3,453,837, 7-8-69, Cl. 62-140.
Sandstrom, Eric L.: *See—*
Keller, Leon D.; and Sandstrom, Eric L.,3,452,874.
Sandstrom, James P.: *See—*
Crishal, Joan M.; and Sandstrom, James P.,3,476,620.
Sandstrom, Lennart Osten Evert, to Holms Industri A.-B. Refuse conveyor for trash collectors or trucks. 3,471,003, 10-7-69, Cl. 198-174.
Sandusky Foundry & Machine Company: *See—*
Derrick, William A., 3,442,706.
Sandvick, Robert M.: *See—*
Curtis, Johnnie J.; and Sandvick, Robert M.,3,486,214.
Sandvik Steel, Inc.: *See—*
Jounot, Theodore, 3,468,516.
Sandvikens Jernverks Aktiebolag: *See—*
Carlen, Jan-Christer Henric Ovesson; Flaherty, Francis Edward; and Tupper, Wyman Carrick, 3,469,972.
Kokaly, Joseph; and Miller, Lawrence J., 3,484,960.
Lindberg, Torsten Erland Folke, 3,425,706.
Lundstrom, Hans Per Olof; and Herrgard, Ole Hilding, 3,463,270.
Sandwith, Colin J., to United States of America, Interior. Method of determining preferred orientation in metals. 3,435,668, 4-1-69, Cl. 73-88.
Sandy, Charles Anthony, to Du Pont de Nemours, E. I., and Company. Process for making tetramethyl lead. 3,426,056, 2-4-69, Cl. 260-437.
Sandy Hill Corporation: *See—*
Smith, Robert E., 3,440,138.
Sandy, James J., Jr., to United Aircraft Corporation. Two-directional axial thrust balancer. 3,485,541, 12-23-69, Cl. 308-160.
Sandy, Julius W., to Microtherm Limited. Vending machine. 3,443,509, 5-13-69, Cl. 99-357.
Sandy, Julius W., to Microtherm Limited. Packaging machine. 3,465,493, 9-9-69, Cl. 53-124.
Sanetra, Erwin: *See—*
Feldman, Hans-Helmut; and Sanetra, Erwin,3,483,362.
Sanfilippo, Bruce P.: *See—*
Dockendorff, Jay D.; Chirico, Anthony N.; and Sanfilippo, Bruce P.,3,477,829.
Sanford, Arthur Carol. Method of fabricating trusses. 3,435,508, 4-1-69, Cl. 29-432.
Sanford, Arthur Carol. Method for fabricating trusses in upright position. 3,439,607, 4-22-69, Cl. 100-35.
Sanford, Arthur Carol. Interfitting multi-piece connectors. 3,454,292, 7-8-69, Cl. 287-20.92
Sanford, Arthur Carol. Connector plate. 3,479,920, 11-25-69, Cl. 85-13.
Sanford, Carlton E., to Texas Instruments, Incorporated. Three-circuit snap-acting toggle switch. 3,482,067, 12-2-69, Cl. 200-67.
Sanford, Carlton E.; and Braun, John A., to Texas Instruments, Incorporated. Three position snap-acting toggle switch. 3,454,733, 7-8-69, Cl. 200-67.
Sanford, Charles L., to Kimberly-Clark Corporation. Papermaking machine. 3,470,063, 9-30-69, Cl. 162-303.
Sanford, Elbert A.: *See—*
Little, John R.; and Sanford, Elbert A.,3,458,344.
Little, John R.; and Sanford, Elbert A.,3,463,646.
Sanford, Lloyd C., to Itek Corporation. Sensitometer. 3,440,935, 4-29-69, Cl. 95-1.
Sanford, Mable M. Incontinence device. 3,452,753, 7-1-69, Cl. 128-287.
Sanford, Philip H., to Foxboro Company, The. Instrument system rangeability device. 3,459,045, 8-5-69, Cl. 73-398.
Sanford, Philip H., to Foxboro Company, The. Overrange link. 3,468,165, 9-23-69, Cl. 73-398.
Sanford, Philip H., to Foxboro Company, The. Differential pressure measuring device. 3,485,104, 12-23-69, Cl. 73-407.
Sanford Research Company: *See—*
Beal, Keith F., 3,464,775.
Sanford, Richard A.; and Ayers, Buell O., to Phillips Petroleum Company. Analyzer for determining hydrogen-to-carbon ratio in a material. 3,431,770, 3-11-69, Cl. 73-23.
Sanford, Richard A.; and Ayers, Buell O., to Phillips Petroleum Company. Chromatographic method and apparatus. 3,457,704, 7-29-69, Cl. 55-67.
Sanford, Richard A.; and Ayers, Buell O., to Phillips Petroleum Company. Trace component chromatography. 3,483,731, 12-16-69, Cl. 73-23.1
Sanford, Richard A.; McCray, Floyd D.; and Hutson, Thomas, Jr., to Phillips Petroleum Company. Apparatus with parallel flow paths for measuring electrical conductivity of fluids. 3,424,975, 1-28-69, Cl. 324-30.
Sanford, Richard A.; and Miller, Maurice L., to Phillips Petroleum Company. Sampling system. 3,446,077, 5-27-69, Cl. 73-421.5
Sanford, Richard A.: *See—*
Ayers, Buell O.; and Sanford, Richard A.,3,438,242.
Sanford, Robert A.; and Chloupek, Frank J., to Sinclair Research, Inc. Ethylene alkylation with aluminum fluoride supported on silica-alumina gel. 3,456,034, 7-15-69, Cl. 260-683.53
Sanford, Robert A.: *See—*
Chloupek, Frank J.; and Sanford, Robert A.,3,451,909.
Kovach, Stephen M.; Sanford, Robert A.; and Young, David W.,3,433,845.
Kovach, Stephen M.; Sanford, Robert A.; and Young, David W.,3,459,814.
Trevillyan, Alvin E.; and Sanford, Robert A.,3,429,943.
Sanford, Robert Clark: *See—*
Wong, Frank; Carpenter, John Cline; and Sanford, Robert Clark,3,440,656.
Sanford, Robert F., to Radio Corporation of America. Half wavelength monopole antenna with spaced loading coils. 3,445,849, 5-20-69, Cl. 343-702.
Sanford, Robert F., to RCA Corporation. Synchronization system for television signals with auxiliary information transmitted during the vertical blanking interval. 3,472,962, 10-14-69, Cl. 178-69.5
Sanford, Ross C. Single control dual flow valve. 3,468,344, 9-23-69, Cl. 137-636.4
Sanford, Terry Lee. Process for anodizing magnesium and magnesium alloys. 3,477,921, 11-11-69, Cl. 204-56.
Sang, Harry M.: *See—*
Griffiths, Clifford H.; Sang, Harry M.; and Champness, Clifford H.,3,473,095.
Sanga, Seiji: *See—*
Watanabe, Isaburo; Yoshioka, Haruo; Sanga, Seiji; Egashira, Shohachi; and Ohki, Taketo,3,429,680.
Sangamo Electric Company: *See—*
Brothman, Abraham; Halpern, Stephen J.; Reiser, Richard D; Cuddeback, Bruce A.; and Miller, Allen H., 3,449,716.
Brothman, Abraham; Bruckner, Alan J.; Halpern, Stephen J.; and Yanis, Conrad, 3,456,163.
Brothman, Abraham; and Reiser, Richard D., 3,484,694.
Lovegrove, Henry Joseph, 3,428,895.
Patton, Charles C., 3,423,615.
Siebert, Jack Alan, 3,421,139.
Sangiacomo, Fulvio. Circular hosiery-making apparatus. 3,460,160, 8-5-69, Cl. 66-50.
Sango Toki Kabushiki Kaisha: *See—*
Yamamura, Masami; and Ogawa, Kazuo, 3,472,601.
Sanguigni, John A.: *See—*
Eilerman, George E.; Sanguigni, John A.; Kolek, Robert L.; Fasnacht, James J.; and McWilliams, Donald E.,3,437,517.
Sanguinetti, Bradley E., to General Bearing Company, Inc. Resilient pressure assembled bearing. 3,454,314, 7-8-69, Cl. 308-191.
Sanguinetti, Bradley E.: *See—*
Erb, George H.; Horenburger, William E.; Sanguinetti, Bradley E.; and Hayden, Edward F.,3,441,189.
Sani-Jon of America, Inc.: *See—*
Bradshaw, Thomas T., 3,430,269.
Harding, David B., 3,435,464.
Harding, David B., 3,447,167.

Sanitary Scale Company: *See—*
Karp, Edward C., 3,442,312.
Sankey, David J.: *See—*
Bechard, John J.; Dahl, Walter L.; Martin, James S.; Workman, Clark S.; and Sankey, David J.,3,445,951.
Sankey, Edward L.; and Stoelting, Herman O., to McGraw-Edison Company. Combination overvoltage protective device and conducton support. 3,435,397, 3-25-69, Cl. 337-34.
Sankey, G. K. N., (Proprietary) Limited: *See—*
Butler, Dennis Ralph, 3,483,998.
Sankey, Joseph, & Sons Limited: *See—*
Golder, Gerald William, 3,456,830.
Sanky, Joseph, & Sons Limited: *See—*
Dudley, John Trevor, 3,476,202.
Sankyo Company Limited: *See—*
Iwai, Issei; and Nakamura, Norio, 3,435,047.
Iwai, Issei; and Nakamura, Norio, 3,435,048.
Iwai, Issei; Seki, Isao; Minakami, Haruhiko; Kobayashi, Shinsaku; Inada, Satoru; and Kumakura, Seiji, 3,471,502.
Iwai, Issei; Ohki, Eiji; Oida, Sadao; and Takagi, Hiromu, 3,475,439.
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,436,369.
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,448,074.
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi, 3,431,232.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi, 3,431,233.
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide, 3,437,633.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi, 3,474,068.
Negoro, Harutada; Awada, Etsuo; Ikegami, Yoshihiko; Akagi, Saburo; and Matsui, Katsuaki, 3,477,995.
Shirasaka, Makoto; Naito, Atsushi; and Tanabe, Katsumi, 3,475,275.
Sumi, Hiroji; Takahi, Yukiyoshi; Kondo, Yasuhiko; Hamamoto, Yoshio; and Nishimura, Tsunehiko, 3,426,135.
Sunagawa, Genshun; Soma, Nobuo; Watanabe, Taiichiro; and Sato, Yoshio, 3,435,071.
Sunagawa, Genshun; Soma, Nobuo; and Nakazawa, Junichi, 3,453,286.
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; and Watatani, Mitsuo, 3,461,131.
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; Watanabe, Taiichiro; and Sato, Yoshio, 3,467,665.
Tamura, Saburo; Takematsu, Tetsuo; Oyamada, Kozo; and Jojima, Teruomi, 3,427,146.
Tanabe, Katsumi; Hayashi, Ryozo; Morisawa, Yasuhiro; Hashimoto, Teruo; Nakazawa, Tadamasa; and Takasaki, Rinji, 3,485,848.
Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. N-tridecyl-2,6-dimethylmorpholine, or acid addition salts thereof. 3,468,885, 9-23-69, Cl. 260-247.2
Sanner, Medford D., to Recognition Equipment Incorporated. Document sorting apparatus. 3,460,673, 8-12-69, Cl. 209-73.
Sano, Kazuo: *See—*
Shimotsuma, Teruo; Sano, Kazuo; and Kimura, Takaaki,3,458,134.
Sano, Kengi: *See—*
Murakami, Masuo; Kawashima, Yuji; and Sano, Kengi,3,482,025.
Sano, Norimasa, to Yasui Sangyo Company, Ltd. Pneumatic and hydraulic jack for garage use. 3,433,458, 3-18-69, Cl. 254-93.
Sano, Ryuichi; and Ota, Zenji, to Kansai Paint Company, Limited. Anticorrosive treatment of zinc and metallic materials coated with zinc. 3,437,574, 4-8-69, Cl. 204-181.
Sano, Shiro: *See—*
Matsubayashi, Kanji; Yasui, Takeshi; and Sano, Shiro,3,464,198.
Nakajo, Shogo; Sano, Shiro; Nagoshi, Kazuo; and Hosoda, Katsutoshi,3,481,765.
Sano, Tsunenori: *See—*
Yanagisawa, Akimasa; Kanbe, Kenichi; Sano, Tsunenori; and Ishii, Tadashi,3,427,112.
Sano, Yasuo: *See—*
Tanabe, Hideo; and Sano, Yasuo,3,462,527.
Sansbury, David L.: *See—*
Frasier, Carlton R.; Hittel, Lorenz A.; Hudson, James R.; Rakoczi, Laszlo L.; Sansbury, David L.; and Wiener, Jerome B.,3,483,521.
Sansevero, Vincent J., Jr., to United Aircraft Corporation. Rapid dump valve. 3,482,405, 12-9-69, Cl. 60-263.
Sansom, Jack E.; Finton, Lawrence W.; and Paddock, Byron, Jr., to Caterpillar Tractor Company. Die quenching machine. 3,447,547, 6-3-69, Cl. 134-141.
Sanson, Jerry R.: *See—*
Utley, Charles H.; and Sanson, Jerry R.,3,436,070.
Sanson, Leopold Stewart, to Lockspike Limited. Insulating fastener for a railway rail. 3,460,756, 8-12-69, Cl. 238-338.
Sansonetti, Joseph P.: *See—*
Haefele, Walter R.; Dallas, Charles A.; and Deisz, Marvin A.,3,485,787.
Santa Barbara Research Center: *See—*
Autrey, Evert A., 3,426,198.
Buller, Joseph S., 3,422,886.
De Vaux, Lloyd H., 3,466,448.
Kuhn, Jackson G.; and Talley, Robert M., 3,425,768.
Kuhn, Jackson G., 3,472,574.
Santa Cruz, Leon M. Cake icing apparatus. 3,450,069, 6-17-69, Cl. 107-4.
Santa Rita Technology, Inc.: *See—*
Stewart, John L., 3,432,618.
Stewart, John L., 3,469,034.
Stewart, John L., 3,483,325.
Santala, Teuvo J.: *See—*
Comey, Kenneth R., Jr.; and Santala, Teuvo J.,3,472,654.
Santala, Teuvo J., to Texas Instruments, Incorporated. Process of manufacturing and inlaying peripherally cladded noble-metal strip. 3,468,015, 9-23-69, Cl. 29-481.
Santangelo, Francis J., to Johnson & Johnson. Container. 3,436,008, 4-1-69, Cl. 229-15.
Santangelo, Joseph Germano: *See—*
Denyes, Russell Owens; and Santangelo, Joseph Germano,3,470,583.
Santangelo, Joseph G., to Celanese Corporation. Process for wet-spinning polybenzimadazoles. 3,441,640, 4-29-69, Cl. 264-203.
Santangini, Joseph A., to Western Electric Company, Incorporated. Bonding a beam-leaded device to a substrate. 3,442,432, 5-6-69, Cl. 228-44.
Santangini, Joseph A., to Western Electric Company, Incorporated. Bonding a beam leaded device to a substrate. 3,475,814, 11-4-69, Cl. 29-589.
Santaniello, Anthony F.: *See—*
Gobran, Riad H.; Santaniello, Anthony F.; and Mazzeo, Michael P.,3,423,376.
Gobran, Riad H.; Santaniello, Anthony F.; and Larsen, Roy,3,448,091.
Santeford, Henry S., Jr. Subsurface disposal system. 3,425,226, 2-4-69, Cl. 61-13.
Santelli, Thomas R.: *See—*
Heider, James E.; and Santelli, Thomas R.,3,429,003.
Santelmann, Kurt, to Phoenix Gummiwerke Aktiengesellschaft. Boot casting. 3,454,992, 7-15-69, Cl. 18-42.
Santelmann, William F., Jr., to Automatic Radio Manufacturing Co., Inc. Remote controlling. 3,483,562, 12-9-69, Cl. 343-225.
Santer, James O.: *See—*
Lavin, Edward; Markhart, Albert H.; and Santer, James O.,3,480,588.
Santeramo, Benedict. Readily collapsible and assemblable barbecue. 3,447,530, 6-3-69, Cl. 126-25.
Santho, Albert. Nail-receiving metal wall-forming member for freight-transporting vehicles. 3,444,661, 5-20-69, Cl. 52-376.
Santi, Romano: *See—*
Losco, Giuseppe; Rossi, Giorgio; Troiani, Ncola; and Santi, Romano,3,439,070.
Santiago, Edgardo: *See—*
Bayer, John W.; and Santiago, Edgardo,3,440,179.
Bayer, John W.; Gagnon, Donald W.; Grinonneau, William C.; and Santiago, Edgardo,3,476,732.
Santiago, Edgardo, to Owens-Illinois, Inc. Polymerization and catalysts. 3,468,865, 9-23-69, Cl. 260-94.3
Santilhano, Philip D. Method of welding. 3,484,574, 12-16-69, Cl. 219-73.
Santilhano, Phillip D., to Babcock & Wilcox, Limited. Method of welding. 3,431,385, 3-4-69, Cl. 219-73.
Santilli, Arthur A., to American Home Products Corporation. 4-Amino-2-aryl-6-carbamoyl-7,8-dihydro-7-oxo-8- pteridineacetamides and 4-amino-2-aryl-6- carbamoyl-7,8-dihydro-7-oxo-8-pteridineacetic acid esters. 3,449,344, 6-10-69, Cl. 260-251.5
Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. 1-[2-Substituted-6-arylsulfonamidopyrimidin-4-yl] pyridinium hydroxide inner salts. 3,452,018, 6-24-69, Cl. 260-256.5
Santilli, Arthur A.; and Osdene, Thomas S., to American Home Products Corporation. N-[O-(2-oxazolin-2yl)phenyl]alkyl or aryl sulfonamides and intermediates in the production thereof. 3,452,037, 6-24-69, Cl. 260-307.
Santilli, Arthur A.; and Osdene, Thomas S., to American Home Products Corporation. 5H-1,4-Benzodiazepin-5-ones and-5-thiones. 3,457,258, 7-22-69, Cl. 260-239.3
Santilli, Ermanno. Annular saw with circular safety guard. 3,438,410, 4-15-69, Cl. 143-44.

Santilli, Richard A., to Radio Corporation of America. Gain control biasing circuits for field-effect transistors. 3,443,240, 5-6-69, Cl. 330-29.
Santillo, George R., Jr.: *See—*
Beck, George C.; Clark, Kendall; Drop, Joseph G.; Godat, Jean J. L.; Larsen, Arne H.; Rajac, Thomas J.; and Santillo, George R., Jr.,3,473,212.
Clark, Kendall; Rajac, Thomas J.; Santillo, George R., Jr.; and Schuelke, Walter J.,3,453,714.
Locke, Charles H.; and Santillo, George R., Jr.,3,421,638.
Santillo, Michael, Jr. Side loading truck. 3,453,020, 7-1-69, Cl. 296-100.
Santimauro, John F.; and Gerson, Herman, to Allied Chemical Corporation. 9,10-Dihydro-9,10-dioxoanthacenediyl-bis-(4'-carbamoylphthalimides). 3,483,217, 12-9-69, Cl. 260-326.
Santirocco, Louis J.; and Ritter, Joachim A., to Elgeet Optical Company, Inc. Attachment for stereomicroscopes. 3,434,777, 3-25-69, Cl. 350-136.
Santmyer, Philip H., to Harvest Queen Mill & Elevator Company. Method of casting metallic articles. 3,464,838, 9-2-69, Cl. 106-38.5
Santolino, James: *See—*
Monzulla, Lyle L.; and Santolino, James,3,458,196.
Santoni, Cesar: *See—*
Bobula, Edward M.; Santoni, Cesar; and Russell, Raymond C.,3,439,949.
Santoni, Cesar, to Greif Bros. Cooperage Corporation, The. Drum closing ring assembly. 3,447,825, 6-3-69, Cl. 292-256.67
Santora, Frank. Bowling device. 3,481,601, 12-2-69, Cl. 273-54.
Santore, Nicholas T., to Mount Hope Machinery Company. Combined web guider and selvage uncurler. 3,419,944, 1-7-69, Cl. 26-54.
Santos, Gerard R., to Eaton Yale & Towne, Inc. Trolley hoist brake with deadman control. 3,451,507, 6-24-69, Cl. 188-44.
Santos, Gerard R., to Eaton Yale & Towne, Inc. Hoist push button control. 3,487,280, 12-30-69, Cl. 318-267.
Santry, George J., to Schokbeton Products Corporation, mesne. Lightweight mold for the forming of concrete. 3,475,265, 10-28-69, Cl. 161-160.
Santucci, Kenneth E. Saddle clip. 3,432,129, 3-11-69, Cl. 248-69.
Santucci, Lawrence E.: *See—*
Schmidt, Robert J.; and Santucci, Lawrence E.,3,423,224.
Sanville, Walter W.: *See—*
Marsh, Donald B.; and Sanville, Walter W.,3,430,066.
Sanwa Seiki Mfg., Co., Ltd.: *See—*
Katayama, Haruo, 3,428,367.
Sanyo Electric Co., Ltd.: *See—*
Asakawa, Toshihiko, 3,470,709.
Fukada, Shuzo; Kido, Takayoshi; and Hurutate, Hirotugu, 3,470,942.
Nagakura, Akira; Iyoshi, Koichi; Kuribara, Tomio; and Ishiwara, Yoshimi, 3,453,840.
Okuda, Osamu, 3,434,001.
Sanz, Manuel: *See—*
Greiner, Rudolf; and Sanz, Manuel,3,486,859.
Sanz, Robert, to Intertechnique. Systems for supplying fuel to aircraft engines. 3,443,778, 5-13-69, Cl. 244-135.
Sanzenbacher, William A. Apparatus for preparing drinkable water. 3,430,769, 3-4-69, Cl. 210-266.
Saotome, Kazuo; and Sato, Kenichiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the preparation of oxadicarboxylic acids. 3,431,298, 3-4-69, Cl. 260-535.
Saotome, Kenji: *See—*
Murai, Korenori; Fukuda, Kiyo; Saotome, Kenji; and Sato, Shigetake,3,454,504.
Saotome, Minoru: *See—*
Okubo, Tadashi; and Saotome, Minoru,3,453,183.
Sap, Bobby L.: *See—*
Hollingsworth, Clinton A.; and Sap, Bobby L.,3,454,159.
Sapakie, Alan Louis: *See—*
Kenny, Neal S.; Warden, Douglas A.; and Sapakie, Alan Louis,3,480,372.
Saper, Lawrence, to Datascope Corporation. Display of repetitive analog data. 3,457,452, 7-22-69, Cl. 315-19.
Sapers, Ira, to Arkansas Company, Inc. Low temperature dyeing of synthetic polyamide fibers. 3,472,607, 10-14-69, Cl. 8-21.
Sapers, Ira: *See—*
Cook, Alton A.; and Sapers, Ira,3,434,795.
Sapir, Said, to International Telephone and Telegraph Corporation. Temperature controller for environmental chamber. 3,456,455, 7-22-69, Cl. 62-223.
Sapoff, Meyer: *See—*
Froemel, John C.; and Sapoff, Meyer,3,428,541.
Froemel, John G.; and Sapoff, Meyer,3,464,907.
Sapoff, Meyer; and Froemel, John G., to Victor Engineering Corporation. Low noise thermistor assembly and method. 3,452,314, 6-24-69, Cl. 338-22.
Sapoff, Meyer; and Froemel, John G., to Victory Engineering Corporation. R F sputtering apparatus including a wave reflector positioned behind the target. 3,483,114, 12-9-69, Cl. 204-298.
Saponara, Domenick, to Caloric Corporation. Radiant burner. 3,437,416, 4-8-69, Cl. 431-329.
Saponara, Domenick, to Caloric Corporation. Fluid fuel flow control for gas burning top burner. 3,448,923, 6-10-69, Cl. 236-99.
Saporito, Anthony: *See—*
Reimus, Richard G.; and Saporito, Anthony,3,432,308.
Reimus, Richard G.; and Saporito, Anthony,3,449,129.
Reimus, Richard G.; and Saporito, Anthony,3,474,723.
Sapp, Bobby L.: *See—*
Hollingsworth, Clinton Allen; and Sapp, Bobby L.,3,421,621.
Sapp, Robert H., to United States of America, Navy. Synchronizer for digital counters. 3,420,989, 1-7-69, Cl. 235-92.
Sapp, Robert W.: *See—*
Davenport, Ralph M., Jr.; Kratzer, Alfred L.; Sapp, Robert W.; Thomas, William T.; and Weichardt, Heinz H.,3,468,660.
Sapper, Wolfgang: *See—*
Von Rosenberg, Guido; and Sapper, Wolfgang,3,437,496.
Saprykin, Jury Ivanovich: *See—*
Belfor, Mikhail Gershovich; and Saprykin, Jury Ivanovich,3,466,421.
Sara, Raymond V., to Union Carbide Corporation. Aluminum-carbon fiber composites. 3,473,900, 10-21-69, Cl. 29-195.
Sara, Raymond V.; Cox, Mason C.; and Thielke, Norman R., to Union Carbide Corporation. Ferrite materials containing titanium or manganese. 3,483,126, 12-9-69, Cl. 252-62.59
Saraband Properties, Inc.: *See—*
Center, Donald R., 3,475,806.
Saraber, Petrus G. Camera with photoelectric light meter. 3,438,701, 4-15-69, Cl. 352-141.
Sarace, John C.: *See—*
Kerwin, Robert E.; Klein, Donald L.; and Sarace, John C.,3,475,234.
Saraceno, Anthony Joseph, to Pennsalt Chemicals Corporation. Process for making inorganic polymers. 3,483,142, 12-9-69, Cl. 260-2.
Saraceno, Anthony Joseph: *See—*
King, James Ping; Saraceno, Anthony Joseph; and Block, Burton Peter,3,483,143.
Sarafidis, Christos, to Du Pont de Nemours, E. I., and Company. Organoaluminum-cobalt salt-trisphosphine catalysts for use in preparing 1,4-dienes. 3,445,540, 5-20-69, Cl. 260-680.
Sarah, Thomas F., to Pflueger Corporation. Removable level wind for fishing reels. 3,447,760, 6-3-69, Cl. 242-84.42
Sarah, Thomas F., to Shakespeare Company, mesne. Fly reel having selective and alternate drag and brake means. 3,478,976, 11-18-69, Cl. 242-84.45
Sarah, Thomas F., to Shakespeare Company, mesne. Fly reel having primary and secondary drag means. 3,478,977, 11-18-69, Cl. 242-84.45
Sarah, Thomas F.: *See—*
Hardesty, Benjamin T.; and Sarah, Thomas F.,3,468,052.
Saraisky, Alfred B.; and Neuman, Bert. Wrapping machine. 3,420,034, 1-7-69, Cl. 53-182.
Saran, Herbert, to Henkel & Cie GmbH. Production of hardenable compositions based on triglycidyl isocyanurate. 3,479,302, 11-18-69, Cl. 260-2.
Saran, Herbert; and Budnowski, Manfred, to Henkel & Cie GmbH. Process for the preparation of molded plastics based on solid triglycidyl isocyanurates. 3,459,713, 8-5-69, Cl. 260-77.5
Sarandos, George A. Automatic wrapping apparatus. 3,444,666, 5-20-69, Cl. 53-167.
Sarapuu, Erich, to Small Business Administration, mesne. Rock breaking method and apparatus. 3,460,766, 8-12-69, Cl. 241-1.
Sarati, Luigi, to Societa Italiana Telecommunicazioni Siemens S.p.A. Electronic processor which performs switching operations between plural transmitters in response to circuit conditions. 3,421,145, 1-7-69, Cl. 340-147.
Sarati, Luigi. Circuitry adapted to perform data processing, combination and alarm operations in reception in the operating-reserve system of isofrequency connections with Middle and long-range radio relays. 3,487,309, 12-30-69, Cl. 325-2.
Saray, George B., to Ivanhoe Research Corporation, mesne. Inactive position centering mechanism for sewing machines. 3,463,103, 8-26-69, Cl. 112-219.
Saraydar, Michael. Holder for hose ends. 3,452,952, 7-1-69, Cl. 248-75.
Sarbach, Ronald A. Safety control system. 3,476,442, 11-4-69, Cl. 303-19.
Sarbacher, Robert I.: *See—*
Burgess, Louis M.; and Sarbacher, Robert I.,3,453,590.
Sarbacher, Robert I. Electrical muscle stimulator. 3,472,233, 10-14-69, Cl. 128-422.
Sarco Company, Inc.: *See—*
Cusi, Eduardo L., 3,470,899.
Sardee Corporation, The: *See—*
Sarovich, Steve, 3,447,663.
Sarel Appareillage Electrique: *See—*
Schmitt, Walter Peter; and Kopf, Marcel Georges, 3,452,148.

Sarel, Shalom; Yanuka, Yehuda; and Shalon, Yehuda. Unsaturated cycloheptano perhydro phenantrenes and their preparation. 3,463,795, 8r26-69, Cl. 260-397.1

Sarem, Amir M., to Union Oil Company of California. Recovery of petroleum by flooding with viscous aqueous solutions of acrylic acid-acrylamide- diacetone acrylamide copolymer. 3,476,186, 11-4-69, Cl. 166-274.

Sarett, Lewis H.; and Brown, Horace D., to Merck & Co., Inc. 5-Aryl (or heteroaromatic) benzazoles. 3,471,508, 10-7-69, Cl. 260-302.

Sarett, Lewis H.; and Brown, Horace D., to Merck & Co., Inc. 5-(or 6)-Halo(or amino)benzazoles and methods for preparing same. 3,478,046, 11-11-69, Cl. 260-302.

Sarett, Lewis H.; Bry, Thomas S.; Fried, John; Oberster, Arthur E.; and Beyler, Roger E., to Merck & Co., Inc.3-Ketal, 3-enol ether and 3-pyrrolidine derivatives of 17α-ethynyl and 17α-halo ethynyl-17β-tetra- hydropyranyloxy-estra-5(10), 9(11)-dien-3-ones. 3,452,007, 6-24-69, Cl. 260-239.55

Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W., to Merck & Co., Inc. Nitration of imidazoles. 3,487,087, 12-30-69, Cl. 260-309.

Sarett, Lewis H.; Rooney, Clarence S.; and Peterson, Louis H., to Merck & Co., Inc. N-benzoyloxymethyl benzamides and their preparation. 3,439,019, 4-15-69, Cl. 260-472.

Sarett, Lewis H.; Strachan, Robert G.; and Hirschmann, Ralph F., to Merck & Co., Inc.Anti-inflammatory steroid 2'-acetamido-2'-deoxy- glucoside compounds. 3,427,300, 2-11-69, Cl. 260-210.

Sarett, Lewis H.: *See*—
Shen, Tsung-Ying; and Sarett, Lewis H.,3,426,038.
Shen, Tsung-Ying; and Sarett, Lewis H.,3,449,348.

Sarff, Forest M.; and Birch, Silas B., Jr. Volume and consistency measuring mechanism. 3,463,462, 8-26-69, Cl. 259-154.

Sargeant, Archibald, to Rosemount Engineering Company Limited. Electrically powered vehicles. 3,429,069, 2-25-69, Cl. 46-244.

Sargeant, Archibald, to Rosemount Engineering Company, Limited. Tracks for electrical vehicles. 3,471,967, 10-14-69, Cl. 46-244.

Sargeant, Ralph G. Method of producing high density, low viscosity fruit juice concentrate. 3,428,463, 2-18-69, Cl. 99-205.

Sargeant, Ralph G., to Pet, Incorporated. Method of and apparatus for producing dry concentrates from liquid materials. 3,432,636, 3-11-69, Cl. 219-10.65

Sargeant, Ralph G. Swept surface heater. 3,474,764, 10-28-69, Cl. 122-34.

Sargent & Company: *See*—
Ott, Norman C.; and Arnold, Douglas, 3,485,141.

Sargent, Albert A., to Moore Business Forms, Inc. Optical instrument for character print quality analysis. 3,424,912, 1-28-69, Cl. 250-219.

Sargent, Albert A., to Moore Business Forms, Inc. Strip feeding and severing machines. 3,425,607, 2-4-69, Cl. 225-100.

Sargent, David; and Rountree, Richard C., to TRW Inc. Strapdown guidance system. 3,451,643, 6-24-69, Cl. 244-3.2

Sargent, Elizabeth C. Cake pan and method of baking a layer cake. 3,473,489, 10-21-69, Cl. 107-54.

Sargent Engineering Corporation: *See*—
Valenti, Peter, 3,422,696.

Sargent, Herbert B.; and Yenni, Donald M., to Union Carbide Corporation. Arc torch. 3,471,675, 10-7-69, Cl. 219-75.

Sargent, John C.; Blome, James C.; Tims, Walter D.; and Mills, John P., to McDonnell Aircraft Corporation. Spacecraft heat shield construction and method of making same. 3,475,262, 10-28-69, Cl. 161-68.

Sargent, John R. Attachable toe guard for a shoe. 3,421,234, 1-14-69, Cl. 36-72.

Sargent, John W., to Allis-Chalmers Manufacturing Company. Coil support in salient pole dynamoelectric machine. 3,449,607, 6-10-69, Cl. 310-194.

Sargent, Raymond E. Game device. 3,466,034, 9-9-69, Cl. 273-1.

Sargent, Raymond W., to Simmonds Precision Products, Inc. Fluid quantity sensor. 3,440,878, 4-29-69, Cl. 73-239.

Sargent, Raymond W., to Simmonds Precision Products Inc. Magnetic reed float switch for use within the interior of a liquid container having a removable installation feature. 3,471,665, 10-7-69, Cl. 200-84.

Sargent, Ronald J., to Thetford Engineering Corporation. Ball valve. 3,475,006, 10-28-69, Cl. 251-285.

Sargent, Thomas J., to Kamborian, Jacob S. Method of effecting a temporary securement. 3,444,573, 5-20-69, Cl. 12-142.

Sargisson, Donald Farley: *See*—
Freid, Wilbert Bernard; Duffy, Robert Joseph; and Sargisson, Donald Farley,3,465,950.

Sargisson, Donald F., to General Electric Company. Helicopter engine air inlets. 3,483,676, 12-16-69, Cl. 55-306.

Sarian, Arlen K., to FMC Corporation. Apparatus and method for cooling extruded molten filaments. 3,487,144, 12-30-69, Cl. 264-237.

Sarinelli, Samuel R. Apparatus for cosmetically treating hair. 3,452,759, 7-1-69, Cl. 132-9.

Sark, Werner: *See*—
Wiedemann, Eugen; Kranz, Rolf-Dieter; and Sark, Werner,3,487,243.

Sarka, Albert J., to Harris-Intertype Corporation. Material processing apparatus with relatively movable processing components. 3,430,542, 3-4-69, Cl. 93-36.

Sarka, Albert J., to Harris-Intertype Corporation. Method and apparatus for removing waste pieces from sheet material. 3,435,737, 4-1-69, Cl. 93-36.

Sarka, Albert J., to Harris-Intertype Corporation. Cutting and scoring dies. 3,485,146, 12-23-69, Cl. 93-58.

Sarka, Albert J.; and Toth, Louis P., to Harris-Intertype Corporation. Etching apparatus. 3,455,763, 7-15-69, Cl. 156-345.

Sarka, Albert J.; and Toth, Louis P., to Harris-Intertype Corporation. Apparatus for operating on sheet material. 3,460,443, 8-12-69, Cl. 93-58.2

Sarkar, Asim Kumar, to Hickson & Welch Limited. Pyrazolyl derivatives having optical whitening properties. 3,428,630, 2-18-69, Cl. 260-240.9

Sarkar, Asim Kumar, to Hickson & Welch Limited. Triazolyl styryl optical whitening agents. 3,470,167, 9-30-69, Cl. 260-240.9

Sarkissian, Vahe B. Shoe with a hinged mechanically adjustable heel. 3,464,126, 9-2-69, Cl. 36-2.5

Sarkozy, Francis A., to Emhart Corporation. Valve lever and latch construction for glassware forming machines. 3,461,903, 8-19-69, Cl. 137-315.

Sarlandt, Oscar L. Grade setter. 3,460,260, 8-12-69, Cl. 33-73.

Sarli, Vincent G.: *See*—
Tejeda, Alvaro R.; and Sarli, Vincent G.,3,453,354.

Sarlo, Anthony. Power mower drive mechanism. 3,443,657, 5-13-69, Cl. 180-74.

Sarlund, Pentti V., to Zenith Radio Corporation. Subscription television receiver with program use recording. 3,475,547, 10-28-69, Cl. 178-5.1

Sarnecki, Wilhelm: *See*—
Freyschlag, Herwig; Reif, Werner; Nuerrenbach, Axel; and Sarnecki, Wilhelm,3,449,438.

Sarnezki, Herbert; and Ade, Eberhard, to Siemens Aktiengesellschaft. Frequency modulation tube with a surrounding magnetic system. 3,444,418, 5-13-69, Cl. 315-3.5

Sarno, Andrew N., to DI/AN Controls, Inc. Stacked magnetic memory system. 3,432,827, 3-11-69, Cl. 340-174.

Sarnoff, Stanley J. Burstable diaphragm seal. 3,424,155, 1-28-69, Cl. 128-218.

Sarnoff, Stanley J. Training injection device. 3,426,448, 2-11-69, Cl. 35-17.

Sarnoff, Stanley J. Uniting parts by the use of vibrational and positive material deforming forces and article made thereby. 3,436,803, 4-8-69, Cl. 29-432.2

Sarnoff, Stanley J. Syringe with single use cartridge and holder. 3,437,090, 4-8-69, Cl. 128-218.

Sarnoff, Stanley J. Cartridge assembly including ribbed hub. 3,450,135, 6-17-69, Cl. 128-221.

Sarnoff, Stanley J. Automatic infusion device. 3,451,393, 6-24-69, Cl. 128-214.

Sarnoff, Stanley J. Thermal transfer garment and thermal transfer packet therefor. 3,476,102, 11-4-69, Cl. 126-204.

Sarong, Inc.: *See*—
Tuschman, Moe, 3,433,229.

Saronni, Emiliana. Thermostatic apparatus. 3,447,748, 6-3-69, Cl. 236-59.

Sarosi, Magdolna: *See*—
Szava, Jeno; Sarosi, Magdolna; and Totos, Rosa,3,463,799.

Sarovich, Steve, to Sardee Corporation, The. Magnetic elevator for containers. 3,447,663, 6-3-69, Cl. 198-41.

Sarraf, Edward M. Spacer for basic refractory brick in metallurgical vessels. 3,448,974, 6-10-69, Cl. 266-43.

Sarraf, Edward M. Refractory block for annular linings. 3,463,865, 8-26-69, Cl. 13-35.

Sarring, Ernest J., to Crawley Machinery Co. Method and apparatus for properly positioning a book within a case. 3,451,082, 6-24-69, Cl. 11-3.

Sarrois, Jean M., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Tubular mesh cathode for high-power electronic tubes. 3,449,616, 6-10-69, Cl. 313-341.

Sarsten, Jan A.; and Myers, Michael C., to Esso Research and Engineering Company. Process for vaporizing liquefied natural gas. 3,479,832, 11-25-69, Cl. 62-52.

Sartain, Everett L.: *See*—
Qualley, Ray W.; and Sartain, Everett L.,3,474,720.

Sarto, Jorm O.: *See*—
Winkelmann, Otto J.; and Sarto, Jorm O.,3,447,512.

Sarto, Jorma O., to Chrysler Corporation. Idle mixture control for carburetors. 3,454,264, 7-8-69, Cl. 261-23.

Sarto, Jorma O.; and Fouts, Paul G., to Chrysler Corporation. Engine exhaust recirculation. 3,444,846, 5-20-69, Cl. 123-119.

Sartomer Resins Inc.: *See*—
Cornell, John A., 3,427,274.
Cornell, John A., 3,431,330.

Sartore, Michael A. Method for netting meat. 3,477,860, 11-11-69, Cl. 99i174.
Sartoretto, Paul A.: *See—*
Cleary, William A.; and Sartoretto, Paul A.,3,440,055.
Sartori, Cuido: *See—*
Turba, Vittorio; Cameli, Nazzareno; and Sartori, Cuido,3,444,147.
Sartori, Guido: *See—*
Natta, Giulio; Mazzanti, Giorgio; Pregaglia, Gianfranco; Valvassori, Alberto; and Sartori, Guido,3,483,173.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; Dall'Asta, Gino; and Sartori, Guido,3,453,250.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; and Sartori, Guido,3,476,720.
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto, to Montecatini Edison S.p.A. Amorphous, vulcanizable terpolymers of ethylene, aliphatic alpha-olefins, and alkenylmethylencyclo- alkanes or-cycloalkenes. 3,453,247, 7-1-69, Cl. 260-79.5
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto, to Montecatini Edison S.p.A. Terpolymers of ethylene, higher alpha-olefins and cycloalkadienonorbornenes. 3,470,142, 9-30-69, Cl. 260-79.5
Valvassori, Alberto; and Sartori, Guido,3,444,146.
Valvassori, Alberto; Cameli, Nazzareno; and Sartori, Guido,3,467,631.
Sartorio, Franco, to D.E.A. Digital Electronic Automation Societa per Azioni. Guide rail protective device. 3,446,539, 5-27-69, Cl. 308-3.5
Saruno, Rinjiro; and Ishida, Kengo, to Kyowa Hakko Kogyo Co., Ltd. Preparation of a flavoring from sea tangle. 3,481,748, 12-2-69, Cl. 99-140.
Sarutani, Masataka. Apparatus for preparing and sealing mixed medicines. 3,449,890, 6-17-69, Cl. 53-281.
Sarvela, Jaakko Hermanni: *See—*
Sarvela, Vilho Juhani; and Sarvela, Jaakko Hermanni,3,468,442.
Sarvela, Vilho Juhani; and Sarvela, Jaakko Hermanni. Rear loader for tractor attachment. 3,468,442, 9-23-69, Cl. 214-766.
Sarver, James F.; and Apple , Eugene F., to General Electric Company. Calcium halophosphate phosphors. 3,430,089, 2-25-69, Cl. 313-109.
Sarver, James F.; and Louden, William C., to General Electric Company. Calcia-magnesia-alumina seal compositions. 3,441,421, 4-29-69, Cl. 106-39.
Sarver, James F.: *See—*
Hummel, Floyd A.; Sarver, James F.; and Kreidler, Eric R.,3,458,452.
Sarver, Junior G. Apparatus for sorting irregularly shaped items. 3,468,415, 9-23-69, Cl. 209-74.
Sarvie, Walter L. Method of making pliers. 3,442,159, 5-6-69, Cl. 76-101.
Sarvis, John William. Link for disintegrating ammunition belt. 3,465,640, 9-9-69, Cl. 89-35.
Sasagawa, Yoshiaki: *See—*
Matsuzaki, Teizo; Minami, Kuniyuki; and Sasagawa, Yoshiaki,3,439,849.
Sasaguri, Kenzi: *See—*
Kosaka, Shinya; and Sasaguri, Kenzi,3,447,056.
Sasai, Jiro. Coating composition containing pleated particles and method for applying same. 3,470,120, 9-30-69, Cl. 260-17.
Sasaki, Hiroshi; and Maruyama, Tatsuo, to Kokusai Denshin Denwa Kabushiki Kaisha. Regenerative telegraph repeater. 3,475,556, 10-28-69, Cl. 178-70.
Sasaki, Juntaro; Senoue, Toshio; and Tokuzumi, Tadaichi, to Mitsui Petrochemical Industries, Ltd. Process for the preparation of polyolefins with a transition metal halide-organo aluminum compounds catalyst. 3,445,443, 5-20-69, Cl. 260-93.7
Sasaki, Juntaro; Tokuzumi, Tadaichi; and Senoue, Toshio, to Mitsui Petrochemical Industries, Ltd. Process for preparation of crystalline high polymers of olefins. 3,450,682, 6-17-69, Cl. 260-80.78
Sasaki, Kenji: *See—*
Yoshida, Hiroshi; Okabe, Hideo; Sasaki, Kenji; Nonaka, Hiroshi; Nakagawa, Kichizaemon; and Igarashi, Kiyoyuki,3,457,984.
Sasaki, Kesao: *See—*
Otani, Sugio; Fukuoka, Yoshihiko; Igarashi, Bunjiro; and Sasaki, Kesao,3,461,082.
Sasaki, Kuniya, to Sumitomo Metal Mining Company Limited. Induction hanging mechanism for starting sheets in an electrolyte refinery for metals. 3,425,684, 2-4-69, Cl. 271-1.
Sasaki, Minoru: *See—*
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru,3,437,620.
Sasaki, Reiichi; and Furuhashi, Michio, to Matsushita Electric Industrial Co., Ltd. Reactance transistor circuit configuration. 3,469,214, 9-23-69, Cl. 333-80.
Sasaki, Ryoichi; and Hataya, Humio, to Hitachi, Ltd. Austenitic heat-resisting steel containing niobium and vanadium. 3,476,556, 11-4-69, Cl. 75-128.
Sasaki, Shigeru, to Tokyo Tokei Seizo Kabushiki Kaisha. Self-starting and drive means for a timekeeping device. 3,452,537, 7-1-69, Cl. 58-23.
Sasaki, Toshio: *See—*
Murao, Taiichi; Katsuyama, Shigeo; and Sasaki, Toshio,3,443,002.
Sasaki, Tsutomu: *See—*
Matsumoto, Yutaro; Hisatsune, Tadashi; Sasaki, Tsutomu; Mitsudo, Fumiaki; and Yamauchi, Yasuhiro,3,467,723.
Sasaki, Yoshikazu: *See—*
Oka, Katsuaki; Tokiura, Shohei; Yamamoto, Tatsuo; Sasaki, Yoshikazu; and Ishida, Hideo,3,455,885.
Tokiura, Shohei; Ishida, Hideo; Sasaki, Yoshikazu; and Yamamoto, Tatsuo,3,454,537.
Sasaki, Yozo; Furuoya, Takashi; Sugiyama, Haruo; and Murakami, Hiroshi, to Nippon Electric Company Limited. Magnetic-wire memory matrix. 3,465,308, 9-2-69, Cl. 340-174.
Sasao, Saburo, to Hayakawa Denki Kogyo Kabushiki Kaisha. Device for removal of interfering signals. 3,482,168, 12-2-69, Cl. 325-476.
Sasiadek, Stanislaw: *See—*
Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw,3,459,417.
Saslawsky, Sheldon, to Products Machine Company, The. Apparatus for removing flashing from molded plastic articles. 3,469,076, 9-23-69, Cl. 219-383.
Sasmor, Ernest J., to Purdue Frederick Company, The. Methods for the removal of cerumen and the methods for the treatment of ear disease. 3,422,186, 1-14-69, Cl. 424-79.
Sasmor, Ernest J., to Purdue Frederick Company, The. Hydrocortisone cyclohexylsulfamate, pharmaceutical compositions thereof, and method of use. 3,445,571, 5-20-69, Cl. 424-243.
Sasmor, Ernest J., to Frederick, Purdue, Company, The. Methylglucammonium polygalacturonate demulcent compositions and methods of treatment therewith. 3,479,432, 11-18-69, Cl. 424-180.
Sass, Andrew R.; and Lohner, Erwin K., to RCA Corporation. Circuits for reducing electrical noise. 3,460,101, 8-5-69, Cl. 340-173.1
Sass, Hans G., to Kleinewefers, Joh., Sohne Maschinenfabrik. Fabric stretching device. 3,432,894, 3-18-69, Cl. 26-52.
Sass, Hans-Eckhard: *See—*
Theunissen, Ernst; and Sass, Hans-Eckhard,3,423,047.
Sass, Samuel; Witten, Benjamin; and Davis, Paul, to United States of America, Army. Incendiary composition containing white phosphorus and hexamethylenetetramine. 3,441,955, 4-29-69, Cl. 149-30.
Sass, William H., to International Business Machines Corporation. Image processing system. 3,487,202, 12-30-69, Cl. 235-61.6
Sassak, Frank, to Bend-Rite, Inc. Tube bending dies. 3,452,571, 7-1-69, Cl. 72-219.
Sassano, John H. Exterior sliding window shutters. 3,452,477, 7-1-69, Cl. 49-116.
Sasse, Klaus: *See—*
Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus,3,480,611.
Paulus, Wilfried; Kuhle, Engelbert; Pauli, Otto; Sasse, Klaus; and Klauke, Erich,3,478,027.
Sassin, Wolfgang: *See—*
Doose, Conrad; Hemmerich, Hans; and Sassin, Wolfgang,3,466,886.
Sassiver, Martin Leon: *See—*
Lewis, Benjamin Arthur; Sassiver, Martin Leon; and Shepherd, Robert Gordon,3,459,747.
Winterbottom, Robert; and Sassiver, Martin Leon,3,423,457.
Sassler, Marvin L., to International Telephone and Telegraph Corporation. Electronic integrator circuits. 3,444,393, 5-13-69, Cl. 307-229.
Sassler, Marvin L., to International Telephone and Telegraph Corporation. Multivibrator circuit using a common timing circuit. 3,482,187, 12-2-69, Cl. 331-107.
Sata, Shinetsu: *See—*
Koshizuka, Michio; Ohfuji, Naoji; and Sata, Shinetsu,3,437,861.
Satake, Toshihiko. Drying apparatus for cereals. 3,426,442, 2-11-69, Cl. 34-102.
Satake, Toshihiko. Separation and polishing of rice grains. 3,472,660, 10-14-69, Cl. 99-80.
Satake, Toshihiko. Combination of grinding and friction-type rice polishing machine. 3,485,280, 12-23-69, Cl. 146-290.
Satchell, Fred E.; and Berry, Foster W., to Brunswick Corporation. Apparatus for densifying wood bowling pin cores and other articles. 3,477,364, 11-11-69, Cl. 100-93.
Satchell, Fred E.; Conklin, Robert M.; and Weisz, John J., to Brunswick Corporation. Sectional bowling pin with metal liner and outer plastic shell. 3,445,113, 5-20-69, Cl. 273-82.
Satchell, Fred E.; Rytina, Anton W.; and Trier, Louis J., to Brunswick Corporation. Interlocked pin bottom. 3,477,721, 11-11-69, Cl. 273-82.

Satchwell Controls Limited: *See—*
Steghart, Fritz Ludwig Felix; Cross, Gerald; Kershaw, Peter Leslie; Oliver, Trevor Exelby; and Farrant, Leonard George, 3,424,377.
Satchwell, Peter F., to Automotive Products Company Limited. Means to progressively disengage twin plate clutches. 3,447,651, 6-3-69, Cl. 192-48.91
Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., to Bell & Howell Company. Selective insertion machine having variable capacity insertion station and matching. 3,484,100, 12-16-69, Cl. 270-58.
Sathyakumar, Rajabushanam: *See—*
Werner, Frank D.; and Sathyakumar, Rajabushanam,3,433,068.
Satkunas, Bruno; and Lyons, Merle E., to Dominion Electric Corporation. Sealed switch device. 3,472,983, 10-14-69, Cl. 200-157.
Sato, Akihiko, to Nippon Kogaku K.K. Manual mirror and preset aperture stop control device for single lens reflex cameras. 3,442,192, 5-6-69, Cl. 95-42.
Sato, Akihiko, to Nippon Kogaku K.K. Cartridge control means associated with a hinge-type camera lid. 3,465,659, 9-9-69, Cl. 95-31.
Sato, Eisuke: *See—*
Fujita, Koji; Sato, Eisuke; and Moroe, Tatsuo,3,460,950.
Sato, Fujio: *See—*
Iwai, Katsuyuki; Fukatsu, Motonori; and Sato, Fujio,3,483,318.
Sato, Fukuji: *See—*
Hayasaka, Koro; Sato, Fukuji; Hattori, Tosio; and Sato, Takeshi,3,426,234.
Sato, Fukuzo; Okagami, Akio; and Ueno, Toshihiro, to Japan Gasoline Co., Ltd. Process for manufacturing alcohol by direct catalytic hydration of olefins. 3,452,106, 6-24-69, Cl. 260-641.
Sato, Fumio, to Morinaga Confectionery Company Ltd. Method of counting and turning flat bodies. 3,426,706, 2-11-69, Cl. 107-45.
Sato, Fusamatsu. Golf trolleys. 3,425,708, 2-4-69, Cl. 280-47.19
Sato, Hosei, to Matsushita Electric Industrial Co., Ltd. Automatic toaster. 3,426,671, 2-11-69, Cl. 99-329.
Sato, Isami: *See—*
Yamada, Hirosuke; Shishido, Kyoji; Hoshino, Takao; Kobayashi, Seizaburo; and Sato, Isami,3,462,412.
Sato, Isao: *See—*
Iwata, Namio; Takahashi, Koichi; Sato, Isao; and Yanagisawa, Sizuyasu,3,454,756.
Sato, Isao. Reinforced paper pipe. 3,424,204, 1-28-69, Cl. 138-144.
Sato, Isao. Method of forming engravings on the circumferential surface of synthetic resin tubes. 3,478,144, 11-11-69, Cl. 264-313.
Sato, Jiro: *See—*
Wakamatsu, Hachiro; Sato, Jiro; Takesada, Masahiko; and Sato, Seiicho,3,445,505.
Wakamatsu, Hachiro; Takesada, Masahiko; and Sato, Jiro,3,420,895.
Sato, Junichiro, to Hideyoshi Hisatsune. Latch mechanism. 3,422,645, 1-21-69, Cl. 70-145.
Sato, Junzi: *See—*
Maeda, Kazuo; and Sato, Junzi,3,484,302.
Sato, Katsuo: *See—*
Hayashi, Teruo; Sato, Katsuo; and Kobayashi, Hiroyuki,3,472,688.
Sato, Katsuo; and Irie, Toshiaki, to Nippon Electric Company Limited. Diffusion type semiconductor device having plural protective coatings. 3,424,956, 1-28-69, Cl. 317-234.
Tsuji, Shigeru; Hayashi, Kazutami; Kadowaki, Kouichi; and Sato, Katsuo,3,436,201.
Sato, Katsuya: *See—*
Ushioda, Tsunezo; Nonaka, Katsuhiko; Yasueara, Minoru; Sato, Katsuya; Ompo, Takeshi; and Ishibashi, Hiroaki,3,476,647.
Sato, Keisuke, to Akai Electric Company, Limited. Eraser and cleaner set. 3,435,300, 3-25-69, Cl. 317-157.5
Sato, Kenichiro: *See—*
Saotome, Kazuo; and Sato, Kenichiro,3,431,298.
Sato, Kenji: *See—*
Sowa, Tuneo; Sato, Kenji; Ouchi, Shunji; Ohsawa, Takeyoshi; and Senoo, Saburo,3,466,273.
Sato, Kenzo: *See—*
Sato, Tikasi; Sato, Tai; Sato, Kenzo; and Sato, Tutomu,3,424,518.
Sato Kiko Kabushiki Kaisha: *See—*
Nagashima, Seiji, 3,461,018.
Sato, Kozo. Heat-cutting method for overlapping metal plates. 3,468,726, 9-23-69, Cl. 148-9.
Sato, Kunio: *See—*
Ishida, Shin'Ichi; Kajihara, Akira; Tokushige, Akira; Ohki, Hayashi; and Sato, Kunio,3,471,998.
Ishida, Shinichi; Sato, Kunio; Fujita, Norimasa; Fukuda, Hiromichi; Mori, Kyoichiro; and Kugler, Fritz,3,470,135.
Sato, Mamoru: *See—*
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru,3,484,334.
Sato, Masaki; and Miyata, Tadashi. Process for hydrogenation. 3,461,181, 8-12-69, Cl. 260-667.
Sato, Masamichi; Honjo, Satoru; and Takimoto, Masaaki, to Fuji Shashin Film Kabushiki Kaisha. Electrophotographic imaging and copying process. 3,476,659, 11-4-69, Cl. 204-18.
Sato, Mikio: *See—*
Ishikawa, Hidehiko; Sato, Mikio; and Matsui, Kazuo,3,466,173.
Sato, Naotake: *See—*
Nagao, Masanori; Sato, Naotake; and Akashi, Takekazu,3,425,919.
Sato, Nobuo: *See—*
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa,3,448,195.
Sato, Risaburo; and Iwata, Kansei, to Nippon Telegraph and Telephone Public Corporation. Pulse transmission cables. 3,443,030, 5-6-69, Cl. 178-70.
Sato, Seiicho: *See—*
Wakamatsu, Hachiro; Sato, Jiro; Takesada, Masahiko; and Sato, Seiicho,3,445,505.
Sato, Shigetake: *See—*
Murai, Korenori; Fukuda, Kiyo; Saotome, Kenji; and Sato, Shigetake,3,454,504.
Sato, Shimao: *See—*
Irikura, Tsutomu; Sato, Shimao; and Shirai, Kazunari,3,485,838.
Sato, Shui; Sakamoto, Eiichi; and Sakurai, Setsuji, to Konishiroku Photo Industry Co., Ltd., and Ajinomoto Co., Inc.N,N dialkyl N' acyl-diaminocarboxylic acid coating compositions. 3,475,174, 10-28-69, Cl. 96-94.
Sato, Shui: *See—*
Koda, Kenichi; Sato, Shui; Shoono, Masayuki; and Hori, Haruo,3,457,079.
Sato, Tai: *See—*
Sato, Tikasi; Sato, Tai; Sato, Kenzo; and Sato, Tutomu,3,424,518.
Sato, Takayoshi; and Ueda, Hiroshi, to Kabushiki Kaisha Koparu. Exposure control means for photographic cameras. 3,455,227, 7-15-69, Cl. 95-64.
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Minoru, Ohtake, to Kabushiki Kaisha Koparu. Photo-resistance bridge servo-mechanism. 3,450,969, 6-17-69, Cl. 318-18.
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Otake, Minoru, to Kabushiki Kaisha Koparu. Exposure control system for photographic cameras. 3,461,786, 8-19-69, Cl. 95-64.
Sato, Takeshi: *See—*
Hayasaka, Koro; Sato, Fukuji; Hattori, Tosio; and Sato, Takeshi,3,426,234.
Sato, Takesi, to Hitachi, Ltd. Steam separator of axial flow and centrifugal separation type. 3,461,652, 8-19-69, Cl. 55-448.
Sato, Tikasi; Sato, Tai; Sato, Kenzo; and Sato, Tutomu, to Nippon Kogaku K.K. Device for projecting and observing images of external objects upon the retina of the eye. 3,424,518, 1-28-69, Cl. 351-6.
Sato, Toshihiko: *See—*
Tanaka, Hiroshi; Takahashi, Shinkichi; Hasegawa, Tetsuo; and Sato, Toshihiko,3,438,706.
Sato, Tutomu: *See—*
Sato, Tikasi; Sato, Tai; Sato, Kenzo; and Sato, Tutomu,3,424,518.
Sato, Yasuhiro: *See—*
Asano, Taisuke; Nakano, Mamoru; Sato, Yasuhiro; Shimodaira, Takashi; and Kamata, Keiko,3,470,238.
Sato, Yasuo: *See—*
Yoshioka, Tomoaki; and Sato, Yasuo,3,454,397.
Sato, Yoshinori; and Inoue, Yukio. Chewing gum composition. 3,473,933, 10-21-69, Cl. 99-135.
Sato, Yoshio: *See—*
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; Watanabe, Taiichiro; and Sato, Yoshio,3,467,665.
Sunagawa, Genshun; Soma, Nobuo; Watanabe, Taiichiro; and Sato, Yoshio,3,435,071.
Sato, Yuichiro: *See—*
Morizumi, Ichiro; Sato, Yuichiro; and Matsukura, Kiyoshi,3,423,250.
Sato, Yuko: *See—*
Ueno, Kenzo; and Sato, Yuko,3,438,922.
Sato, Yutaka, to Japanese National Railways. Method of filling gaps in permanent rail beds. 3,432,098, 3-11-69, Cl. 238-283.
Satoh, Hideya, to Toyo Kogyo Company Limited. Rotary piston internal combustion engine. 3,464,394, 9-2-69, Cl. 123-8.
Satoh, Hideya: *See—*
Yamamoto, Kenichi; and Satoh, Hideya,3,483,850.
Satou, Terumasa: *See—*
Yano, Nobumitsu; Fukushima, Masao; Satou, Terumasa; and Senoh, Saburo,3,457,254.
Satrain Lines, Inc.: *See—*
Cole, William M., 3,460,686.
Satriana, Daniel R., to United States of America, Army. Solid propellant composition containing the reaction product of polyvinylene glycol nitrate and an aromatic diisocyanate. 3,445,306, 5-20-69, Cl. 149-96.

Satter, Abdus; and Craig, Forrest F., Jr., to Pan American Petroleum Corporation. Method for conducting cyclic steam injection in recovery of hydrocarbons. 3,434,544, 3-25-69, Cl. 166-40.
Satter, Abdus; and Parrish, David R., to Pan American Petroleum Corporation. Recovery of petroleum by thermal methods involving transfer of heat from one section of an oil-bearing formation to another. 3,430,700, 3-4-69, Cl. 166-256.
Satterfield, Charles N.; Smith, John O.; and McHugh, Kenneth L., to Monsanto Research Corporation. Fuel cell. 3,436,268, 4-1-69, Cl. 136-86.
Satterlee, Anna Lucile Ballay. Aircraft escape. 3,472,473, 10-14-69, Cl. 244-121.
Satterlee, Frederick R.: *See—*
Crothers, James W.; and Satterlee, Frederick R.,3,456,483.
Satterley, Buddy L.: *See—*
Ballard, Louis H.; and Satterley, Buddy L.,3,423,185.
Satterthwaite, Cameron B.; and Ries, Roger P., to University of Illinois Foundation. Superconducting amplifier. 3,479,576, 11-18-69, Cl. 321-8.
Satterthwaite, James Glenn; and Macy, James B. Torque-journal hub propeller. 3,470,843, 10-7-69, Cl. 115-34.
Satterwhite, Fred B., to Klinger Manufacturing Company, Limited, The, mesne. Apparatus for processing yarn. 3,431,609, 3-11-69, Cl. 28-1.
Satterwhite, Fred B., to Klinger Manufacturing Company Limited, The, mesne. Yarn treating apparatus and method. 3,454,998, 7-15-69, Cl. 28-1.
Satterwhite, Fred B.: *See—*
Buck, Thomas M.; and Satterwhite, Fred B.,3,434,189.
Satterwhite, William A.; Carter, Jack M.; and Carey, Thomas L., to USS Agri-Chemicals, Inc., mesne. Clarification of wet process phosphoric acid. 3,455,651, 7-15-69, Cl. 23-165.
Satterwhite, William A.: *See—*
McFarlin, Richard F.; and Satterwhite, William A.,3,423,173.
Sattlegger, Hans; Simmler, Walter; Noll, Walter; and Niederprum, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of methyl-(bromomethyl)- chlorosilanes. 3,449,393, 6-10-69, Cl. 260-448.2
Sattlegger, Hans: *See—*
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans,3,437,679.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans,3,442,925.
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans,3,444,228.
Sattler, Dennis W.: *See—*
Powers, Joseph E.; and Sattler, Dennis W.,3,430,525.
Sattler, Helmut: *See—*
Forster, Paul Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunter,3,480,586.
Forster, Paul-Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunther,3,446,772.
Sattler, Robert I.; Joichi, Paul T.; and van den Kieboom, Johannes L., to La Salle Machine Tool, Inc. Grinding apparatus. 3,473,269, 10-21-69, Cl. 51-118.
Sattler, Walter J., to General Motors Corporation. Condition responsive transducer. 3,445,801, 5-20-69, Cl. 338-42.
Sattler, Wolf B.; Voss, Albert Walter; and Wendel, Hartmut W. G. Veb Filmfabrik Wolfen Process for the manufacture of shaped structures from polyglycolides. 3,440,225, 4-22-69, Cl. 260-78.3
Sattur, Naranyan Balvantrao: *See—*
Chipalkatti, Vasant Bhimrao; Desai, Ramanlal Markandrai; Sattur, Naranyan Balvantrao; and Husain, Iftikhar,3,457,026.
Sattur, Narayan B.: *See—*
Chipalkatti, Vasant B.; Desai, Ramanlal M.; Sattur, Narayan B.; and Hussain, Iftikhar,3,457,024.
Satula, Edward D. Optical system. 3,476,026, 11-4-69, Cl. 95-18.
Satzinger, Gebhard, to Gebhard Satzinger Metallwarenfabrik. Lubricator. 3,430,731, 3-4-69, Cl. 184-39.
Satzinger, Gerhard, to Warner-Lambert Pharmaceutical Company. Substituted benzanilide. 3,433,833, 3-18-69, Cl. 260-588.
Satzinger, Gerhard, to Warner-Lambert Pharmaceutical Company. 3-(2-Fluorophenyl)-1,2,3-benzotriazin-4-one. 3,445,465, 5-20-69, Cl. 260-248.
Satzinger, Gerhard, to Warner-Lambert Pharmaceutical Company. Treatment of epileptic seizures with 2-amino-4'- (diethylamino)-2'-methyl benzanilide. 3,466,375, 9-9-69, Cl. 424-324.
Satzinger, Gerhard, to Warner-Lambert Pharmaceutical Company. Benzyl-(ortho tertiary amino alkoxy)-benzyl ethers. 3,471,504, 10-7-69, Cl. 260-294.7
Sauber, Charles A.: *See—*
Shannon, James L.; and Sauber, Charles A.,3,471,402.
Sauber, Charles R., to Cornell-Dubilier Electric Corporation. Electronic timing circuit. 3,483,395, 12-9-69, Cl. 307-141.
Sauber, James W., to Hewlett-Packard Company. Amplifier-detector having wide dynamic range. 3,435,353, 3-25-69, Cl. 328-145.
Saubestre, Edward B.; and Baker, Edward T., to Enthone, Incorporated. Composition and process for conditioning normally hydrophobic surfaces of acrylonitrile-butadiene- styrene terpolymer. 3,484,270, 12-16-69, Cl. 117-47.
Saubestre, Edward B.; and Durney, Lawrence J., to Enthone Incorporated. Metal bondable polycarbonate plastics. 3,471,376, 10-7-69, Cl. 204-30.
Saubestre, Edward B.; and Emons, William M., Jr., to Enthone, Incorporated. Process for conditioning the surface of polymer articles. 3,471,313, 10-7-69, Cl. 117-47.
Saubestre, Edward B.; and Hajdu, Juan, to Enthone, Incorporated. Composition and method for blackening metal article surfaces. 3,447,974, 6-3-69, Cl. 148-6.24
Saubestre, Edward B.; and Hajdu, Juan, to Enthone, Incorporated. Electroless copper plating. 3,460,952, 8-12-69, Cl. 106-1.
Saubestre, Edward B.; and Hajdu, Juan, to Enthone, Incorporated. Conditioning of formed articles of acrylonitrile- butadiene-styrene terpolymer. 3,471,320, 10-7-69, Cl. 117-47.
Sauby, Wesley O., to Electric Machinery Mfg. Company. Expansion compensating rotor support. 3,444,411, 5-13-69, Cl. 310-266.
Saucercraft, Inc.: *See—*
Bowshier, Ernest E., 3,465,989.
Saucy, Gabriel: *See—*
Furst, Andor; Muller, Marcel; and Saucy, Gabriel,3,476,746.
Marbet, Roman; and Saucy, Gabriel,3,453,317.
Sternbach, Leo Henryk; Saucy, Gabriel; Sach, George Sidney; and Stempel, Arthur,3,455,985.
Sauder, Robert A.; Christopher, William H., Jr.; and Bailey, Merrill E., to Sauder Tank Company, Inc. Method and apparatus for treating fluid streams containing gas, water and water-in-oil emulsions. 3,432,991, 3-18-69, Cl. 55-42.
Sauder Tank Company, Inc.: *See—*
Sauder, Robert A.; Christopher, William H., Jr.; and Bailey, Merrill E., 3,432,991.
Saudinattis, Emanuel: *See—*
Dreiske, Erwin J.; and Saudinattis, Emanuel,3,434,005.
Sauer, Alfred Eugene, to Ballou, B. A., & Co., Incorporated. Earring. 3,484,909, 12-23-69, Cl. 24-252.
Sauer, Charlotte I.: *See—*
Freeman, Charles R.; and Sauer, Charlotte I.,3,451,537.
Sauer, Edgar, to Zeiss Ikon Aktiengesellschaft. Mirror reflex camera. 3,440,942, 4-29-69, Cl. 95-42.
Sauer, Edgar, to Zeiss Ikon Aktiengesellschaft. Mirror reflex camera with focal plane shutter. 3,440,943, 4-29-69, Cl. 95-57.
Sauer, Edgar; and Borner, Gerhard, to Zeiss Ikon Aktiengesellschaft. Rotatable mount for flashcubes. 3,427,552, 2-11-69, Cl. 339-88.
Sauer, Edgar; Hahn, Johann; and Joos, Karl, to Zeiss Ikon Aktiengesellschaft. Photographic camera. 3,443,496, 5-13-69, Cl. 95-11.
Sauer, Hans, to Matsushita Electric Works Ltd. Electromagnetic reversing relay. 3,477,045, 11-4-69, Cl. 335-151.
Sauer, Harold A., to Bell Telephone Laboratories, Incorporated. Unitary dual function heat exchanger for gaseous heat carriers. 3,443,632, 5-13-69, Cl. 165-58.
Sauer, Harold A., to Bell Telephone Laboratories, Incorporated. Method and apparatus for freeze-freeze drying. 3,484,946, 12-23-69, Cl. 34-5.
Sauer, Heinrich: *See—*
Knorre, Helmut; Bretschneider, Gunther; and Sauer, Heinrich,3,433,605.
Sauer, Herman C., to Uniroyal, Inc. Apparatus for making rubber articles. 3,477,895, 11-11-69, Cl. 156-511.
Sauer, John C., to Du Pont de Nemours, E. I., and Company. Preparation of $B_{10}H_{10}$ anion. 3,457,050, 7-22-69, Cl. 23-362.
Sauer, John C., to Du Pont de Nemours, E. I., and Company. Boron hydride carbonyl compounds and process of producing them. 3,476,527, 11-4-69, Cl. 23-361.
Sauer, Leo Peter; and Huson, Gale, to Signode Corporation. Articulated strapping apparatus. 3,443,512, 5-13-69, Cl. 100-26.
Sauer, Louis E., to Westinghouse Electric Corporation. Method of constructing an insulating device. 3,484,938, 12-23-69, Cl. 29-631.
Sauer, Paul, to Burger Eisenwerke Aktiengesellschaft. Electrically heated thawing oven. 3,465,124, 9-2-69, Cl. 219-400.
Sauer, Richard W.: *See—*
Borchert, Alfred E.; Mekler, Arlen B.; and Sauer, Richard W.,3,485,770.
Sauerbrunn, Irmhild: *See—*
Steinberger, Hans; and Sauerbrunn, Irmhild,3,486,284.
Saueressig, Petrus Andre Henri: *See—*
Nihot, Casper; Nihot, Evert Rudolf; and Saueressig, Petrus Andre Henri,3,450,333.
Sauerman, Ernest C.: *See—*
Taylor, Wesley L.; Priesmeyer, Charles H.; Sauerman, Ernest C.; and Thorburn, David H.,3,472,014.
Sauermann, Werner, to Standard Filterbau-Ges. m.b.H. Filter structure. 3,478,498, 11-18-69, Cl. 55-492.
Saufferer, Halmut, to Daimler-Benz Aktiengesellschaft. Catalytic converter system for exhaust gases of internal combustion engines. 3,440,817, 4-29-69, Cl. 60-29.
Saufferer, Warren B., to Farmhand, Inc. Portable feed mills and the like. 3,466,100, 9-9-69, Cl. 241-163.
Saukko, Leo E.: *See—*
Westfall, John F.; and Saukko, Leo E.,3,467,320.
Saul, George A., to Geigy Chemical Corporation. Process for the production of 2,4-alkylamino-6- chloro-s-triazines. 3,436,394, 4-1-69, Cl. 260-249.8

Saul, Robert, to Diapulse Corporation of America. Power meter for athermapeutic apparatus. 3,464,010, 8-26-69, Cl. 324-95.
Saul, Sanford, to Triax Company, The. Automatic warehousing system and method. 3,424,322, 1-28-69, Cl. 214-16.4
Saul, Sanford, to Triax Company, The. Automatic warehouse control for storing loads of varying size. 3,455,468, 7-15-69, Cl. 214-16.4
Saul, Sanford, to Triax Company, The. Print-out device for warehousing system. 3,480,162, 11-25-69, Cl. 214-16.4
Saula, Norman N. Variable pitch propellers for motor driven devices. 3,421,588, 1-14-69, Cl. 170-160.59
Sauli, Michel: *See—*
Metivier, Jean; and Sauli, Michel,3,432,519.
Saulsbury, Laforest S.: *See—*
Weitzner, Dorothea M.; and Saulsbury, Laforest S.,3,439,598.
Saum, Sol J.; and Clarke, Robert L., to Sterling Drug, Inc. Steroid cyclic sulfones and process of regenerating ketones. 3,422,094, 1-14-69, Cl. 260-239.5
Saumenig, Frederick E. Auger type ditching machine. 3,443,326, 5-13-69, Cl. 37-81.
Saunders, Alan Charles Anthony, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel element assemblies. 3,477,909, 11-11-69, Cl. 176-78.
Saunders, Alan: *See—*
Crawley, John; Saunders, Alan; Milne, Alistair; and Campbell, William Henry,3,431,825.
Saunders, Alfred P., to Wildt Mellor Bromley Limited. Patterning systems for circular knitting machines. 3,422,639, 1-21-69, Cl. 66-25.
Saunders, Arnold E.; and Kubichan, Robert E., to PPG Industries, Inc. Strengthening glass by multiple alkali ion exchange. 3,433,611, 3-18-69, Cl. 65-30.
Saunders, Arthur C. Guide apparatus for cleaning gun barrels. 3,480,982, 12-2-69, Cl. 15-104.2
Saunders, Barbara Joan. Hospital beds. 3,438,067, 4-15-69, Cl. 5-68.
Saunders, Charles E.; and Olsen, Olaf M., to American Machine & Foundry Company. Bulk dispenser. 3,475,069, 10-28-69, Cl. 312-71.
Saunders, Charles E.; and Salcman, Arthur, to American Machine & Foundry Company. Dispensing device with adjustable resilient outlet. 3,435,987, 4-1-69, Cl. 221-307.
Saunders, David G.: *See—*
Bright, Alan; Mijovic, Miroslav V.; and Saunders, David G.,3,475,172.
Knott, Edward B; Mijovic, Miroslav V; and Saunders, David George,3,434,837.
Saunders, David J.: *See—*
Camac, George; and Saunders, David J.,3,429,268.
Saunders, Eleanor E.: *See—*
Merriam, Charles N.; and Saunders, Eleanor E.,3,468,844.
Saunders, Elerington: *See—*
Koerner, Ernest L., Jr.; and Saunders, Elerington,3,458,282.
Saunders, Frank L.; and Oswald, James H., to Dow Chemical Company, The. Method for making foamed crystalline vinyl aromatic polymer. 3,449,270, 6-10-69, Cl. 260-2.5
Saunders, Frank L.: *See—*
Vincent, Gerald G.; and Saunders, Frank L.,3,466,207.
Saunders, Guy L., to Nordberg Manufacturing Company. Supporting means for bearings and the like. 3,431,034, 3-4-69, Cl. 308-73.
Saunders, Harry C., to Universal Oil Products Company. Perfume containing oxo substituted 3α,4,5,6,7, 7α-hexahydro-4,7-methanoindene. 3,446,755, 5-27-69, Cl. 252-522.
Saunders, Harvey R. Player supported game board. 3,471,154, 10-7-69, Cl. 273-113.
Saunders, James H., to Mobay Chemical Company. Fire-resistant polyurethane foam. 3,455,850, 7-15-69, Cl. 260-2.5
Saunders, James L.; and Polimeni, Vincent, to Commercial Carpet Corporation. Wall base construction. 3,475,871, 11-4-69, Cl. 52-273.
Saunders, James; and Crow, Stewart Ernest, to Cerebos Foods Limited. Low bulk density salt using cationic surface- active agents. 3,442,628, 5-6-69, Cl. 23-300.
Saunders, John Frank; and Ryder, Geoffrey Lionel, to Bristol Siddeley Engines Limited. Fluid pressure operated apparatus. 3,465,837, 9-9-69, Cl. 175-26.
Saunders, Kenneth Worden; and O'Connor, Michael Niall, to American Cyanamid Company. Spray process for hydrolysing a polymer latex. 3,442,879, 5-6-69, Cl. 260-86.1
Saunders, Laurence F., to Vitretex (Central Africa) Limited. Dry tinting composition for water-based or water- thinnable coating compositions and method of tint- ing with said tinting composition. 3,444,118, 5-13-69, Cl. 260-29.2
Saunders, Lawrence L.; and Sibilia, John A., to Whittaker Corporation. Release mechanism for automatic activator. 3,460,993, 8-12-69, Cl. 136-90.
Saunders, Myron G.; and Steinke, Frank D., to Consoweld Corporation. Wall and corner paneling system. 3,468,089, 9-23-69, Cl. 52-275.
Saunders, Orson V.; and Benasutti, Louis D., to General Motors Corporation. Breaker strip arrangement. 3,445,025, 5-20-69, Cl. 220-9.
Saunders, Raymond A. Measuring water content of heavy petroleum fuel oils by inrared analysis. 3,462,596, 8-19-69, Cl. 250-43.5
Saunders, Robert H., to Hercules Incorporated. Process for preparing bonded, nonwoven fabrics. 3,420,724, 1-7-69, Cl. 156-272.
Saunders Roe & Nuclear Enterprises Limited: *See—*
Guthrie, David G., 3,429,730.
Saunders, Ronald Douglas Haig: *See—*
Jackson, Squire Ronald; Saunders, Ronald Douglas Haig; and Ormerod, Alan,3,481,146.
Saunders, Thomas B., to Robin Products Company. Reinforced plastic fastener. 3,483,787, 12-16-69, Cl. 85-5.
Saunders, William E.; and Stalder, William L., to Phillips Petroleum Company. Recovery of poly(arylene sulfides). 3,478,000, 11-11-69, Cl. 260-79.1
Saunders, William F.: *See—*
Siwko, Eric I.; and Saunders, William F.,3,474,293.
Saunders, William T., to National Steel Corporation. Can opening apparatus. 3,436,991, 4-8-69, Cl. 81-3.32
Saunders, William T., to National Steel Corporation. Container structure and manufacture. 3,437,228, 4-8-69, Cl. 220-54.
Saunders, William T., to National Steel Corporation. Strip metal deforming apparatus. 3,444,717, 5-20-69, Cl. 72-177.
Saunders, William T., to National Steel Corporation. Easy-open structure for containers. 3,450,300, 6-17-69, Cl. 220-54.
Saunders, William W., to Nanosecond Systems, Inc. Sien wave generator. 3,453,747, 7-8-69, Cl. 35-30.
Saurer, Adolph, Ltd.: *See—*
Jaeger, Rudolf; and Macho, Helmut, 3,456,693.
Oprecht, Ulrich, 3,465,162.
Sause, Henry, Jr. Method for securing packages in a cargo space. 3,437,222, 4-8-69, Cl. 214-152.
Sause, Henry, Jr. Load handling apparatus including portable perch. 3,447,701, 6-3-69, Cl. 214-38.
Sauser AG: *See—*
Sauser, Alfred, 3,478,265.
Sauser, Alfred, to Sauser AG. Frame for a moving coil instrument. 3,478,265, 11-11-69, Cl. 324-155.
Saussele, Charles W.; and Bettoni, Eugene C., to Holley Carburetor Company. Automotive exhaust emission system. 3,430,437, 3-4-69, Cl. 60-30.
Sautel, Auguste A.: *See—*
Rouzier, Michel M.; and Sautel, Auguste A.,3,454,911.
Sauter, Charles Frank. Golf scoring device. 3,468,479, 9-23-69, Cl. 235-117.
Sauter, Donald M.; and Abernethy, Hugh, 3rd, to Honeywell Inc. Magnetic core gating circuit. 3,454,782, 7-8-69, Cl. 307-88.
Sauter, Jack E.: *See—*
Richter, Robert L.; and Sauter, Jack E.,3,459,234.
Sauter, John D.: *See—*
Carlisle, Benjamin H.; Daggs, Kenneth L.; and Sauter, John D.,3,446,985.
Sauter Packaging Company: *See—*
Nichols, Matthew, 3,464,182.
Sauter, William D.: *See—*
Miller, Gerald K.; Sauter, William D.; and Warren, John P.,3,457,544.
Sauterel, Gerard, to Matisa Materiel Industriel S.A. Railway track ballast tamping machine. 3,465,688, 9-9-69, Cl. 104-12.
Sauterel, Gerard: *See—*
Oville, Eugene; and Sauterel, Gerard,3,444,822.
Sautier, Philip M.: *See—*
Patrick, Ronald J.; and Sautier, Philip M.,3,471,603.
Sautier, Pierre Jean, to Engins Matra. Aircraft bomb. 3,430,562, 3-4-69, Cl. 102-4.
Sautier, Pierre; and Bouillard, Paul, to Engins Matra. Device for mounting a gun beneath the wing of an airplane. 3,438,304, 4-15-69, Cl. 89-37.5
Sautray, Roger: *See—*
Auchapt, Pierre; Girard, Bernard; and Sautray, Roger,3,445,346.
Sautter, Hans-Dieter: *See—*
Dorner, Nikolaus; Freitag, Herbert; Sautter, Hans-Dieter; Schafer, Willi; and Doetsch, Hans-Peter,3,447,645.
Sauttr, Gerd; Mockesch, Erich; and Gotz, Franz, to Inter-Taylor AG. Forming artificial nails. 3,478,756, 11-18-69, Cl. 132-73.
Sauve, Charles, to Commissariat a l'Energie Atomique. Methods of shaping metals under high hydrostatic pressure. 3,451,240, 6-24-69, Cl. 72-60.
Sav-On Draperies, Inc.: *See—*
Yeaman, Carl R., 3,440,675.
Savage, Albert B.; and Aldrich, Julius C., to Dow Chemical Company, The. Preplasticized methylcellulose film and process of preparing said film. 3,468,685, 9-23-69, Cl. 106-189.
Savage, Bruce R.: *See—*
Parks, Joe K.; and Savage, Bruce R.,3,471,809.
Savage, Jack Palmer; and Chenneour, Raymond, to Lever Brothers Company. Method for preparing a dehydrated meat product. 3,425,850, 2-4-69, Cl. 99-208.

Savage, John Vivian: *See—*
Mortley, Harold Redvers; Chapman, Thomas Grandin; Goodspeed, Morley James; and Savage, John Vivian,3,467,305.
Savage, John W., to Susquehanna Corporation, The. Current probe with auxiliary winding for unwanted signal rejection. 3,431,487, 3-4-69, Cl. 323-50.
Savage, John W., to Susquehanna Corporation, The. Chopper stabilized electrical meter circuit with envelope detector and feedback means. 3,441,851, 4-29-69, Cl. 324-99.
Savage, John W., to Susquehanna Corporation, The. Electrical square wave generating circuit. 3,464,017, 8-26-69, Cl. 328-34.
Savage, Phillip D., to Hall Ski-Lift Company, Inc. Life preserver projectile. 3,486,178, 12-30-69, Cl. 9-14.
Savage, Reese, to Container Corporation of America. Apparatus for molding thermoplastic containers. 3,438,091, 4-15-69, Cl. 18-42.
Savage, Richard L., to Uniroyal, Inc. Electrostatic printing papers including a prime coating of a mixture of a terpolymer and an alkali metal silicate. 3,469,977, 9-30-69, Cl. 96-1.5
Savage, Robert J.; and Smith, Richard V., to McDonnell Douglas Corporation. Recording displacement gage. 3,483,567, 12-9-69, Cl. 346-77.
Savage, Ronald: *See—*
Rhys, David Wade; Gainsbury, Peter Edward; and Savage, Ronald,3,466,165.
Savair Products Co.: *See—*
Tregaskiss, William E., 3,457,841.
Savannah Sugar Refining Corporation: *See—*
Jones, Benjamin B., 3,447,482.
Saveca, Arthur L. Spring actuated ball projecting device. 3,446,199, 5-27-69, Cl. 124-16.
Saveliev, Leonid Ivanovich: *See—*
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovitch; and Khaidurov, Leonid Konstantinovich,3,467,437.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,438.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,467,439.
Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razemerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich,3,477,301.
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Savell, Charles L., to Ford Motor Company. Shiftable bumper. 3,451,710, 6-24-69, Cl. 293-73.
Saver, Louis. Vehicle brake. 3,439,779, 4-22-69, Cl. 188-78.
Saverino, Pasquale. Prosthetic holder for use with a mutilated or deformed hand. 3,434,163, 3-25-69, Cl. 3-12.8
Savignat, Marcel; and Le Goupil, Louis Benjamin. Oscillometer-tensiometer. 3,451,390, 6-24-69, Cl. 128-2.05
Saville, Peter A.: *See—*
Schneider, Eric J.; and Saville, Peter A.,3,436,871.
Savinese, Stanley J.; and Gerhart, Gilbert B., to Burroughs Corporation. Control circuit for causing movement of a cathode ray tube display. 3,439,218, 4-15-69, Cl. 315-18.
Savinese, Stanley J.: *See—*
Yanishevsky, Gilbert; Miller, Bruce J.; and Savinese, Stanley J.,3,479,553.
Savini, Charles G.: *See—*
Carter, James L.; and Savini, Charles G.,3,472,794.
Savino, Henry C.: *See—*
Suozzo, John; and Savino, Henry C.,3,467,223.
Savit, Carl H., to Western Geophysical Company of America. Digital recording apparatus. 3,436,723, 4-1-69, Cl. 340-15.5
Savit, Carl H., to Western Geophysical Company of America. Extendable intersection hydrophone arrays. 3,441,902, 4-29-69, Cl. 340-7.
Savitz, Christian W., to North American Rockwell Corporation. Stud welding tool with indexing mechanism. 3,448,238, 6-3-69, Cl. 219-107.
Savko, Nicholas M.: *See—*
Pfahler, Lloyd L., 3,486,679.
Savo, Williams S.: *See—*
Shumway, Harry, 3,475,080.
Savoca, Robert C., to Barnes Engineering Company. Radiance compensation means for horizon sensors. 3,457,410, 7-22-69, Cl. 250-83.3
Savoie, Hilbert J., Jr. Synchronized counterrotary engine. 3,472,210, 10-14-69, Cl. 123-12.
Savolainen, Unto U., to Texas Instruments, Incorporated. Manufacture of inflated metal products. 3,466,726, 9-16-69, Cl. 29-157.3
Savory, Frederick R., to Steel Construction & Engineering Co. Hydraulic cylinders. 3,437,230, 4-8-69, Cl. 220-55.
Savre, Graydon; and Wernecke, Lloyd C., to General Mills, Inc. Culinary batters. 3,433,646, 3-18-69, Cl. 99-92.
Saw & Slavsky, Inc.: *See—*
Slavsky, Robert J., 3,483,647.
Saw, Clifford O. Telephone operated optoelectronic volume control. 3,446,976, 5-27-69, Cl. 250-217.
Sawa, Yoshimi: *See—*
Kaibara, Nobuhiro; Sawa, Yoshimi; Ichikawa, Takeo; Watanabe, Risaburo; and Igarashi, Osamu,3,485,223.
Sawada, Isoo: *See—*
Fukuda, Masataro; Hirai, Taketsugu; Hino, Takashi; Shiramoto, Tomizo; Sawada, Isoo; and Yanagihara, Nobuyuki,3,443,999.
Sawada, Shigeji, to Tigers Rubber Co., Ltd., mesne. Method of making a corrugated hose. 3,486,532, 12-30-69, Cl. 138-122.
Sawai, Tadashi: *See—*
Watanabe, Jun; Hosoi Susumu; Izawa, Hiroaki; Sawai, Tadashi; and Kawakami, Koichiro,3,428,494.
Sawaki, Yoshitsugu: *See—*
Shima, Takesaburo; Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Maszo; and Takimoto, Tetuji,3,433,840.
Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Masao; Manabe, Mitsuyoshi; and Kondo, Shigekatsu, to Sumitomo Chemical Company, Ltd.Process for purifying β-methylmercaptopropion- aldehyde by reduced pressure distillation in the presence of water or AC_1 to C_3 alcohol. 3,438,868, 4-15-69, Cl. 203-8.
Sawan, George A. Safety automatic brake. 3,432,211, 3-11-69, Cl. 303-18.
Sawata, Kiyoshi: *See—*
Ito, Teruhiko; Mitsui, Naoshi; Maeda, Seiichiro; and Sawata, Kiyoshi,3,444,102.
Sawato, Iwao: *See—*
Makino, Katsuo; and Sawato, Iwao,3,475,552.
Sawatzky, Anton, to Atomic Energy of Canada Limited. Protection of zirconium alloy components against hydriding. 3,440,140, 4-22-69, Cl. 176-43.
Sawatzky, Erich: *See—*
Kay, Eric; and Sawatzky, Erich,3,437,577.
Sawaya, Albert R., to Goodyear Tire & Rubber Company, The. Method of preparing 2-methylene-1,3-dioxolane. 3,431,281, 3-4-69, Cl. 260-340.9
Sawda, Yasunori, to West Electric Co., Ltd. Flash lighting apparatus for photography. 3,439,158, 4-15-69, Cl. 240-1.3
Sawicki, Edward, to Bausch & Lomb Incorporated. Positioning tool for vacuum chamber workholder. 3,486,237, 12-30-69, Cl. 33-180.
Sawicki, Henry E.; and Drees, Jan M., to Bell Aerospace Corporation. Focus rotor stabilization. 3,451,484, 6-24-69, Cl. 170-160.26
Sawyer, Andrew H.; Dobbins, Mark; and Lloyd, Richard H., to Robertson, H. H., Company. Air distributing acoustical ceiling units and insulating batts therefor. 3,482,505, 12-9-69, Cl. 98-40.
Sawyer, Benjamin Robinson, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Blank firing attachment for firearms. 3,440,924, 4-29-69, Cl. 89-14.
Sawyer, Bruce A. Magnetic positioning device. 3,457,482, 7-22-69, Cl. 318-38.
Sawyer, Donald W. Embalming machine. 3,419,945, 1-7-69, Cl. 27-24.
Sawyer, Dwight L., to United States Borax & Chemical Corporation. Preparation of boric oxide. 3,468,626, 9-23-69, Cl. 23-149.
Sawyer, Edgar W., Jr.: *See—*
Haden, Walter L., Jr.; and Sawyer, Edgar W., Jr.,3,434,864.
Sawyer, Edward C. Hinged fork for fork-lift trucks. 3,477,600, 11-11-69, Cl. 214-700.
Sawyer, Philip N., to Research Corporation, mesne. Method of accelerating wound healing by use of interacting metallic sutures. 3,477,436, 11-11-69, Cl. 128-335.5
Sawyer, Willard A. Inflatable pipe plug. 3,431,946, 3-11-69, Cl. 138-93.
Sawyer, Willard A. Pipe beveling machines. 3,473,271, 10-21-69, Cl. 51-241.
Sawyer, Willard Hall; Long, Robert B.; and Gardner, Donald J., to Esso Research and Engineering Company. Complexing ligands with a fluidized bed of cuprous chloride. 3,441,377, 4-29-69, Cl. 23-204.
Saxby: *See—*
Dugelay, George Michel, 3,421,775.
Dugelay, Georges Michel, 3,455,211.
Saxe, Herbert K. Combination crib bed and dressing table for infants. 3,427,666, 2-18-69, Cl. 5-2.
Saxe, Van Rensselaer P. Beam connector unit. 3,463,524, 8-26-69, Cl. 287-189.36
Saxena, Arjun N., to Sprague Electric Company. Multi-plane metal-semiconductor junction device. 3,450,958, 6-17-69, Cl. 317-234.

Saxena, Arjun N.; and McDade, James C., to Sprague Electric Company. Distributed barrier metal-semiconductor junction device. 3,450,957, 617-69, Cl. 317-234.
Saxl, Erwin J. Multipurpose load cell. 3,427,875, 2-18-69, Cl. 73-141.
Saxl, Karel, to Imperial Metal Industries (Kynoch) Limited. Methods and apparatus for reducing the thickness of metal. 3,425,253, 2-4-69, Cl. 72-189.
Saxon, Daniel I., to Eastman Kodak Company. Roll for transporting, drafting and/or treating continuous fiber tow and the like. 3,481,012, 12-2-69, Cl. 28-71.3
Saxon, Earl C. Teaching aid device. 3,460,271, 8-12-69, Cl. 35-21.
Saxon, Richard B.: *See—*
Idoine, Leon S.; and Saxon, Richard B.,3,472,465.
Saxon, Robert: *See—*
Noland, James Sterling; and Saxon, Robert,3,475,519.
Saxonmeyer, Wallace J., to Whiting Corporation. Apparatus for washing railway boxcar interiors. 3,461,889, 8-19-69, Cl. 134-43.
Saxton, Arthur L.: *See—*
Heinzelmann, Fred J.; and Saxton, Arthur L.,3,475,160.
Saxton, Floyd G.: *See—*
Hulverson, Adrian F.; Harper, John W.; and Saxton, Floyd G.,3,456,390.
Sweda, Adam D.; and Saxton, Floyd G.,3,456,962.
Saxton, George H.: *See—*
Dockery, James D.; and Saxton, George H.,3,458,441.
Say, Domingo: *See—*
Miller, Eugene J., Jr.; Mais, Ago; and Say, Domingo,3,481,977.
Say, Donald L.: *See—*
Pawlikowski, Stanley L.; and Say, Donald L.,3,440,474.
Sayegh, Lawrence Joseph. Tethered aerial top. 3,444,644, 5-20-69, Cl. 46-61.
Sayer, Gordon C.: *See—*
Argoudelis, Alexander D.; Grady, Joseph E.; and Sayer, Gordon C.,3,476,738.
Sayer, Lawrence Norman; and Brown, Eric Clive, to Lucas, Joseph, (Industries) Limited. Electron beam welding. 3,436,515, 4-1-69, Cl. 219-121.
Sayers, Leslie W., to Courtaulds Limited. Method of bulking textile yarns. 3,430,314, 3-4-69, Cl. 28-72.
Sayers, Paul G.: *See—*
Chandler, Huel H., Jr.; Morrell, Henry P.; and Sayers, Paul G.,3,459,701.
Sayigh, Adnan A. R., to Upjohn Company, The. Process for manufacturing polyisocyanates. 3,424,780, 1-28-69, Cl. 260-453.
Sayigh, Adnan A. R., to Upjohn Company, The. Sequential production of polyisocyanate compositions. 3,471,543, 10-7-69, Cl. 260-453.
Sayigh, Adnan A. R.; and Tilley, James N., to Upjohn Company, The. Hydrocarbyl carbamoylphosphonates. 3,458,605, 7-29-69, Cl. 260-932.
Sayigh, Adnan A. R.; and Ulrich, Henri, to Upjohn Company, The. 2-Tertiary amino-4H-3,1-benzoxazin-4-ones. 3,450,700, 6-17-69, Cl. 260-244.
Sayigh, Adnan A. R.; and Ulrich, Henri, to Upjohn Company, The. 1,3-Diazetidine-2-thiones. 3,467,651, 9-16-69, Cl. 260-239.
Sayigh, Adnan A. R.; and Ulrich, Henri, to Upjohn Company, The. Preparation of aromatic sulfonyl isocyanates. 3,484,466, 12-16-69, Cl. 260-397.7
Sayigh, Adnan A. R.; Ulrich, Henri; and Wright, John B., to Upjohn Company, The. Benzenesulfonylcarbodiimides as anti-diabetic agents. 3,422,201, 1-14-69, Cl. 424-321.
Sayigh, Adnan A. R.: *See—*
Abercrombie, Lawrence W.; Saaty, Nabil N.; and Sayigh, Adnan A. R.,3,467,605.
D'Ancicco, Victor V.; and Sayigh, Adnan A. R.,3,441,541.
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R.,3,437,680.
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R.,3,448,139.
Farrissey, William J., Jr.; Rose, James S.; and Sayigh, Adnan A. R.,3,448,150.
Odinak, Alec; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R.,3,423,344,
Reymore, Harold E., Jr.; and Sayigh, Adnan A. R.,3,431,223.
Reymore, Harold E., Jr.; and Sayigh, Adnan A. R.,3,438,908.
Green, Milton; Sayigh, Adnan A.; and Ulrich, Henri,3,455,916.
Sayles, David C., to United States of America, Army. Solid propellant compositions and method of modifying propellant burning rate using ferrocene derivatives. 3,447,981, 6-3-69, Cl. 149-19.
Sayles, Louis F.; and Sayles, Louise P. Suspended flare pot holder. 3,475,109, 10-28-69, Cl. 431-343.
Sayles, Louise P.: *See—*
Sayles, Louis F.; and Sayles, Louise P.,3,475,109.
Saylor, Charles Proffer, to United States of America, Commerce. Purification by selective crystallization and remelt. 3,449,087, 6-10-69, Cl. 23-296.
Saylor, Edward T., Jr. Apparatus for transferring energy from a gas to a liquid. 3,485,174, 12-23-69, Cl. 103-1.
Saylor, Edward T., Jr.: *See—*
Parkinson, John; Eibich, Alfred; and Saylor, Edward T., Jr.,3,442,248.
Saylor, William H., to S. S. & S. Company. Decoding system for selective information display. 3,448,444, 6-3-69, Cl. 340-324.
Saylor, William H., to S.S. & S. Company. Signal-controlled positioning apparatus. 3,486,388, 12-30-69, Cl. 74-96.
Saylor, William P., Jr.; and Childers, Herman M., to American Machine & Foundry Company. Biological equivalent responsive neutron survey meter. 3,452,197, 6-24-69, Cl. 250-71.5
Sayous, Leon: *See—*
Barbier, Maurice; and Sayous, Leon,3,483,514.
Jenner, Pierre; Sayous, Leon; and Larrieu, Remi,3,429,396.
Sayres, Alden R.: *See—*
Baicker, Joseph A.; and Sayres, Alden R.,3,483,709.
Sbarra, Anthony J.: *See—*
McSweeney, Daniel J.; and Sbarra, Anthony J.,3,436,186.
Sborlino, Gino, to Loro & Parisini. Mineral oil burner. 3,485,452, 12-23-69, Cl. 239-417.
Sbrana, Glauco: *See—*
Pino, Piero; Braca, Giuseppe; and Sbrana, Glauco,3,459,812.
Scaduto, Daisy: *See—*
De Lucia, Santo; and Scaduto, Daisy,3,458,198.
Scaduto, John Richard. Shaving tool. 3,429,210, 2-25-69, Cl. 82-35.
Scaglione, Paul J. Two-piece car trunk cover. 3,434,754, 3-25-69, Cl. 296-76.
Scaletta, Joseph A.; Miller, Roland E.; and Valek, John, to National Dairy Products Corporation. Forming method and apparatus. 3,435,653, 4-1-69, Cl. 72-336.
Scalf, William D. Ventilated unitary coverall garment. 3,480,968, 12-2-69, Cl. 2-79.
Scalf, William R.: *See—*
Ginnette, Lewis F.; and Scalf, William R.,3,430,454.
Scalf, William R., to FMC Corporation. Foam mat dryer. 3,448,676, 6-10-69, Cl. 99-246.
Scalise, Dominic Theodore: *See—*
Gagnon, William L.; Scalise, Dominic Theodore; and Smith, Bob H.,3,433,977.
Scalliet, Robert: *See—*
Morel, Paul; Givry, Jean-Pierre; and Scalliet, Robert,3,421,995.
Scalora, Anthony James, to Owens-Illinois, Inc. Method of making a blown article. 3,470,282, 9-30-69, Cl. 264-97.
Scalora, Anthony J., to Owens-Illinois, Inc. Container sealing method. 3,475,243, 10-28-69, Cl. 156-69.
Scalora, Anthony J., to Owens-Illinois, Inc. Method and apparatus for heat sealing. 3,475,250, 10-28-69, Cl. 156-293.
Scalzo, Augustine J., to Westinghouse Electric Corporation. Axial flow turbine structure. 3,427,000, 2-11-69, Cl. 253-39.1
Scamberti, Gennaro, Jr.: *See—*
Postorino, Mario, 3,429,024.
Scammon, William John. Golf club supporting member. 3,483,996, 12-16-69, Cl. 211-60.
Scan Coin AB: *See—*
Persson, Bertil J., 3,422,824.
Scan-Data Corporation: *See—*
Frank, Alan I., 3,487,371.
Scanbe Manufacturing Corporation: *See—*
Beale, Stanley E., 3,451,034.
Scandia Packaging Machinery Company: *See—*
Anderson, Andrew W., 3,462,915.
Scandurra, Aldo M., to Applied Research, Inc. Environmental control for radio frequency receiving systems. 3,465,255, 9-2-69, Cl. 325-462.
Scanlan, Ian Francis: *See—*
Drake, Cyril Francis; Scanlan, Ian Francis; and Alexander, John Henry,3,440,588.
Scanlon, Edward J. Animal exercising, conditioning and therapy, and apparatus therefor. 3,485,213, 12-23-69, Cl. 119-29.
Scanlon, John J., Jr.; and Quinlan, Joseph B., to United States of America, Army. High velocity weapon. 3,459,101, 8-5-69, Cl. 89-8.
Scanlon, John J., to Remington Arms Company, Inc. Expendable case ammunition. 3,485,170, 12-23-69, Cl. 102-38.
Scanlon, Robert M.: *See—*
Gentry, Charles B.; and Scanlon, Robert M.,3,484,086.
Scanlon, Robert M., to Granco Equipment Inc. Conveyor systems having compressed slats and slats therefor. 3,469,675, 9-30-69, Cl. 198-195.
Scanlon, Thomas Albert, to P M & E Electronics Inc. Stethoscope. 3,444,954, 5-20-69, Cl. 181-24.
Scanlon, Thomas Albert, to PM & E Electronics, Inc. Selective transducer apparatus for passenger vehicles. 3,450,839, 6-17-69, Cl. 179-1.
Scanlon, Thomas Albert, to P M & E Electronics, Inc. Transducer apparatus. 3,463,886, 8-26-69, Cl. 179-1.
Scannell, Val E. Sailing accessory. 3,478,585, 11-18-69, Cl. 73-188.
Scantlin Electronic, Inc.: *See—*
Scantlin, John R., 3,462,739.
Scantlin Electronics, Inc.: *See—*
Blankenbaker, John V., 3,483,553.

Munro, Ronald V., 3,432,620.
Scantlin, John R., to Scantlin Electronic, Inc. Variable rate system for handling security price information. 3,462,739, 8-19-69, Cl. 340-154.
Scaperotto, Charles A. Pipe-lifting attachment for excavating equipment. 3,472,401, 10-14-69, Cl. 214-147.
Scarabello, Bruno U.; Perez, Emilio A.; Welty, Lloyd G.; and Sluter, Simon J., to Chemway Filters, Inc. Filter. 3,428,054, 2-18-69, Cl. 131-265.
Scaramucci, Domer, to Balon Corporation. Unstressed seats for between flange valves. 3,428,292, 2-18-69, Cl. 251-151.
Scaramucci, Domer. Flow control apparatus having differential area body seals. 3,434,495, 3-25-69, Cl. 137-542.
Scaramucci, Domer, to Balon Corporation. Valve structure. 3,438,387, 4-15-69, Cl. 137-315.
Scaramucci, Domer. Flow control apparatus mounted in a coupling. 3,442,288, 5-6-69, Cl. 137-515.
Scaramucci, Domer, to Balon Corporation. Ball valves with retained seals. 3,446,475, 5-27-69, Cl. 251-156.
Scaramucci, Domer, to Balon Corporation. Valves with movable seals. 3,446,476, 5-27-69, Cl. 251-172.
Scaramucci, Domer, to Balon Corporation. Valve and two-piece seat assembly. 3,455,534, 7-15-69, Cl. 251-175.
Scaramucci, Domer, to Balon Corporation. High temperature and pressure valve seat. 3,460,803, 8-12-69, Cl. 251-175.
Scaramucci, Domer, to Balon Corporation. Ball valve for use between flanges. 3,462,118, 8-19-69, Cl. 251-151.
Scaramucci, Domer, to Balon Corporation. Valve and dual-ring seals therefor. 3,476,356, 11-4-69, Cl. 251-151.
Scaramucci, Domer, to Balon Corporation. Snap-in ball valve seals. 3,486,736, 12-30-69, Cl. 251-315.
Scarano, Louis: *See*—
Hyden, Seymour; Scarano, Louis; and Wilbert, Godfrey,3,433,795.
Scaravilli, Victor J.; and Delisio, Charles J., to S & M Constructors, Inc. Resilient mounted cutter head for tunneling machine. 3,451,722, 6-24-69, Cl. 299-90.
Scarborough, Homer C.: *See*—
Larsen, Aubrey A.; and Scarborough, Homer C.,3,442,890.
Scarborough, Hugh J.: *See*—
Nater, Abe; and Scarborough, Hugh J.,3,476,084.
Scarborough, Phyllis Jean: *See*—
Larsen, Aubrey A.; and Scarborough, Homer C.,3,442,890.
Scarbrough, Lyle Dana: *See*—
Seddon, Robert M.; and Scarbrough, Lyle Dana,3,442,866.
Scardaville, Paul; Wetherell, Thomas; and Sears, Lawrence, to RAI Research Corporation. Separator for alkaline cells. 3,427,206, 2-11-69, Cl. 136-146.
Scardefield, John E.: *See*—
Foster, Luther M.; and Scardefield, John E.,3,427,211.
Scardiglia, Frank; and Hokama, Takeo, to Velsicol Chemical Corporation. Solvent extraction of dripolene fractions to yield polymerizable aromatic monomer mixtures and solid resin products therefrom. 3,484,422, 12-16-69, Cl. 260-82.
Scardiglia, Frank; and Hokama, Takeo, to Velsicol Chemical Corporation. Solvent extraction of dripolene fractions to yield polymerizable aromatic monomer mixtures. 3,485,807, 12-23-69, Cl. 260-82.
Scardina, Virgil R.; Wagner, Paul D.; and Brezic, Raymond L., to Allis-Chalmers Manufacturing Company. Laminated core. 3,463,955, 8-26-69, Cl. 310-217.
Scarfe, Peter Noel Henry, to Marscar Limited. Soil and surface water disposal system. 3,428,077, 2-18-69, Cl. 137-363.
Scarfi, Alberto; and Gugliotta, Emanuele, to Montecatini Edison S.p.A. Process for the preparation of potassium sulfate from kainite. 3,451,770, 6-24-69, Cl. 23-121.
Scarfi, Alberto; and Gugliotta, Emanuele, to Sincat-Societa Industriale Catanese S.p.A. Process for the recovery of potassium from mother and waste liquors of the treatment of potassium salts. 3,459,496, 8-5-69, Cl. 23-50.
Scarlett, Robert L.: *See*—
Tomaszewski, Carlos A.; and Scarlett, Robert L.,3,479,552.
Scarnato, Thomas J.; Gordon, Paul C.; and Morkoski, James, to International Harvester Company. Tiltable implement attachment. 3,471,167, 10-7-69, Cl. 280-150.
Scaros, Mike G.: *See*—
Pappo, Raphael; and Scaros, Mike G.,3,444,206.
Scarpa, Thomas J., to Edison Instruments, Inc. High-frequency ultrasonic generators. 3,433,461, 3-18-69, Cl. 259-1.
Scarpa, Thomas J., to Edison Instruments, Inc. Differential amplifier circuits. 3,470,388, 9-30-69, Cl. 307-235.
Scarpatetti, Dieter: *See*—
Strifler, Paul E.; Drometer, Klaus; and Scarpatetti, Dieter,3,473,634.
Scarpatetti, Diether, to Daimler-Benz Aktiengesellschaft. Hydropneumatic spring for vehicles. 3,484,092, 12-16-69, Cl. 267-64.
Scarpatetti, Diether: *See*—
Strifler, Paul E.; and Scarpatetti, Diether,3,420,543.
Scarr, Robert Walter Alister; Barnes, George John Preston; and Roworth, Donald Anthony Acott, to International Standard Electric Corporation. Syllabic detector system. 3,471,791, 10-7-69, Cl. 329-101.
Scarritt, Nathan, Jr. Watertight closure for plastic bags. 3,481,007, 12-2-69, Cl. 24-30.5
Scarrott, Gordon George, to International Computers and Tabulators Limited. Electro-optical switching devices. 3,449,038, 6-10-69, Cl. 350-150.
Scarrott, Gordon George: *See*—
Mitchell, Roy William; and Scarrott, Gordon George,3,441,926.
Scavullo, Angelo C., to Legion Utensils Co., Inc. Process of producing cooking utensils. 3,475,285, 10-28-69, Cl. 204-25.
SCH Corporation: *See*—
Mahoney, Michael, 3,464,701.
Schaad, Jean, to Voumard Machines Co. S.A. Device for influencing the frequency of a mechanical resonator. 3,462,940, 8-26-69, Cl. 58-23.
Schaaf, Cecil F.; and Macciomei, Walter. Sea wall and fence construction. 3,479,824, 11-25-69, Cl. 61-3.
Schaaf, Henry W., to General Motors Corporation. Body mount. 3,479,081, 11-18-69, Cl. 296-35.
Schaaf, Martin, to Maschinen- und Bohrgerate-Fabrik Alfred Wirth & Co., K.G. Pump, particularly hydraulic pump for drilling plant. 3,435,777, 4-1-69, Cl. 103-217.
Schaaf, Martin, to Maschinen-und Bohrgerate-Fabrik Alfred Wirth & Co., K.G. Pumps, in particular scavenging pumps for use in drilling operations. 3,438,334, 4-15-69, Cl. 103-216.
Schaaf, Robert W., to Mil-An Mfg. Corp. Vacuum cleaner filter bag. 3,426,510, 2-11-69, Cl. 55-368.
Schaafsma, Bernard Richard: *See*—
McDonnell, Robert William; and Schaafsma, Bernard Richard,3,445,242.
Schaal, Alfred: *See*—
Stehle, Heinz; Kaden, Werner; and Schaal, Alfred,3,444,351.
Schaal, Wayne G.: *See*—
Liljegren, Jack G.; Schaal, Wayne G.; and Schubert, Lawrence F.,3,480,212.
Schaap, Luke A.: *See*—
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A.,3,440,293.
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A.,3,455,664.
Schaap, Theodore: *See*—
Leedy, Charles D., 3,454,019.
Schaap, Wayne M., to Knowlton, M. D., Company. Tube recutter. 3,427,909, 2-18-69, Cl. 82-101.
Schaapveld, Arnoldus A. W.: *See*—
Dikotter, Gerardus P.; Schaapveld, Arnoldus A. W.; and Franssen, Pierre J.,3,428,597.
Schabbink, Johannes Gerardus Bernardus: *See*—
Beckman, Leo Heinrich Josef Franz; Schabbink, Johannes Gerardus Bernardus; and de Heere, Gerard Andries Scheltema,3,473,860.
Schaberg, Richard R.: *See*—
Brastow, Edgar R.; Voge, Andrew; and Schaberg, Richard R.,3,434,353.
Schaberg, Richard R., to Clary Corporation. Pickoff means for gyroscopic device. 3,440,889, 4-29-69, Cl. 74-5.6
Schabert, Hans-Peter, to Siemens Aktiengesellschaft. Nuclear power station with carbon dioxide cooling system. 3,444,038, 5-13-69, Cl. 176-60.
Schabert, Robert; and Fischer, Helmut, to Freudenberg, Carl. Production of voluminous fleece batts. 3,450,809, 6-17-69, Cl. 264-128.
Schachenmann, C. Dr., & Co.: *See*—
Rollig, Karl, 3,465,185.
Schachner, Eugene: *See*—
Bennett, James Russell; Parker, William W.; and Schachner, Eugene,3,437,998.
Schachner, Herbert: *See*—
Tannenberger, Helmut; and Schachner, Herbert,3,442,713.
Tannenberger, Helmut; and Schachner, Herbert,3,451,911.
Schacht Associates, Inc.: *See*—
Schacht, Louis L., 3,462,182.
Schacht, Louis L., to Schacht Associates, Inc. Door locking mechanism. 3,462,182, 8-19-69, Cl. 292-36.
Schacht, Ulrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Hydrogenated moenomycin and process of preparation. 3,432,597, 3-11-69, Cl. 424-118.
Schacht, W. F.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,428,847.
Schachte, John J., to Kearney & Trecker Corporation. Apparatus for angularly positioning a spindle. 3,483,767, 12-16-69, Cl. 74-395.
Schack, Carl J., to North American Rockwell Corporation. Methods of preparing chlorodifluoroamine. 3,454,371, 7-8-69, Cl. 23-356.
Schack, Carl J., to North American Rockwell Corporation. Synthesis of chlorine nitrate. 3,472,635, 10-14-69, Cl. 23-356.
Schack, John B., to Concrete Conduit Company, Inc. Underground utility vault with a ventilator-type grate. 3,479,777, 11-25-69, Cl. 52-20.

Schack, Warren R.; and Miller, Jack M., to Swift & Company. Canning. 3,476,574, 11-4-69, Cl. 99-214.

Schacker, James C.: *See—*
Muska, William A.; Schacker, James C.; and McHattie, Earl E.,3,432,793.

Schad, Rex A.: *See—*
Wagner, George M.; and Schad, Rex A.,3,428,480.

Schade, Charles W.: *See—*
Coval, Robert A.; and Schade, Charles W.,3,421,996.

Schade, Cristy M., to Hewlett-Packard Company. Photon amplifier including electroluminescent diode. 3,486,028, 12-23-69, Cl. 250-213.

Schade, Franz; Komarek, Ernst; and Trescher, Viktor, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of condensation products. 3,429,649, 2-25-69, Cl. 8-94.24

Schade, Gerhard: *See—*
Blumenfeld, Georg; and Schade, Gerhard,3,424,726.

Schade, Gerhard; and Blaschke, Franz, to Chemische Werke Witten G.m.b.H. Process for the preparation of polyamides. 3,454,536, 7-8-69, Cl. 260-78.

Schade, Gerhard; and Blaschke, Franz, to Dynamit Nobel Aktiengesellschaft. Hydrazine-modified polyester resins useful in insulating lacquers for wires. 3,476,708, 11-4-69, Cl. 260-75.

Schade, Otto H., Sr., to Radio Corporation of America. Pickup device. 3,426,235, 2-4-69, Cl. 315-11.

Schadel, Jurgen: *See—*
Arndt, Heinz-Herbert; and Schadel, Jurgen,3,439,855.

Schadlich, Fritz: *See—*
Hettich, Alfred; Schadlich, Fritz; Walz, Heinz; and Paule, Kurt,3,475,780.

Schadlich, Fritz, to Bosch, Robert, G.m.b.H. Motor vibration isolating arrangement. 3,463,950, 8-26-69, Cl. 310-51.

Schaedel, Fred C., to Murdock, Inc. Aluminum anodizing apparatus. 3,473,103, 10-14-69, Cl. 321-16.

Schaedler, Raymond J.; and Wallace, William K., to Chicago Pneumatic Tool Company. Impact wrench. 3,428,137, 2-18-69, Cl. 173-93.6

Schaef, Harold M., to Victor Vending Corporation. Merchandise vending equipment. 3,420,591, 1-7-69, Cl. 312-35.

Schaefer, Andrew R.: *See—*
Roth, James F.; and Schaefer, Andrew R.,3,446,865.

Schaefer, Betty Lucille. Brassiere cup inserts. 3,421,515, 1-14-69, Cl. 128-477.

Schaefer, Donald L., to General Electric Company. Protective plating of oxide-free silicon surfaces. 3,471,291, 10-7-69, Cl. 96-36.2

Schaefer, Donald L., to General Electric Company. Photoetching of gold. 3,482,975, 12-9-69, Cl. 96-36.

Schaefer, Donald L., to General Electric Company. Method of chemically etching a nonconductive material using an electrolytically controlled mask. 3,483,108, 12-9-69, Cl. 204-143.

Schaefer, Donald L.; and Burgess, James F., to General Electric Company. Photolytic etching of gold. 3,482,976, 12-9-69, Cl. 96-36.

Schaefer, Donald L.: *See—*
Metlay, Max; and Schaefer, Donald L.,3,482,974.

Schaefer, Edward J.; Hansen, Omar, Jr.; and McVicker, Robert F., to Franklin Electric Co., Inc. Wrapping machine. 3,466,849, 9-16-69, Cl. 53-210.

Schaefer Equipment Company: *See—*
Cale, Roland E., 3,423,112.
Cale, Roland E., 3,441,301.
Schaefer, Frederic Michelsen, Jr., 3,421,470.
Stewart, Frederick G., 3,463,525.

Schaefer, Erich: *See—*
Link, Helmut; and Schaefer, Erich,3,422,846.

Schaefer, Ernest R. Building structure. 3,427,767, 2-18-69, Cl. 52-18.

Schaefer, F. & M., Brewing Co., The: *See—*
Strandskov, Frede B.; and Schulman, Hyman L., 3,463,860.

Schaefer, Frederic Michelsen, Jr., to Schaefer Equipment Company. Jib hook magazine. 3,421,470, 1-14-69, Cl. 114-102.

Schaefer, George H.: *See—*
Stahly, Daniel C.; Schaefer, George H.; and Beck, William P.,3,447,058.

Schaefer, George William, deceased0 (by Schaefer, Gladys, executrix), to Schaefer, William A., mesne. Dowell locks. 3,420,559, 1-7-69, Cl. 287-127.

Schaefer, Gerhard; Suter, Hubert; Wirth, Friedrich; and Mann, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Distilling phthalic anhydride. 3,420,750, 1-7-69, Cl. 203-72.

Schaefer, Gladys: *See—*
Schaefer, George William,3,420,559.

Schaefer, Harold W., to National Union Electric Corporation. Cleaner assembly. 3,480,987, 12-2-69, Cl. 15-323.

Schaefer, Johannes M., to Technipower, Incorporated. Regulated power supply with switching transistors. 3,439,251, 4-15-69, Cl. 321-11.

Schaefer, Johannes M., to Technipower Incorporated. Control circuitry for switching-type power supply. 3,474,325, 10-21-69, Cl. 323-20.

Schaefer, Johannes M., to Technipower Incorporated. Electronic ripple filter and amplifier used therein. 3,474,346, 10-21-69, Cl. 330-25.

Schaefer, Johannes M., to Technipower Incorporated. Balanced differential amplifier with dual collector current regulating means. 3,487,323, 12-30-69, Cl. 330-30.

Schaefer, John O., to International Business Machines Corporation. Typebar drive including reciprocating linear moving cyclic means. 3,458,024, 7-29-69, Cl. 197-17.

Schaefer, John O., to International Business Machines Corporation. Data encoder. 3,478,196, 11-11-69, Cl. 235-61.6

Schaefer, Joseph H., to Marquette Corporation. Battery charging apparatus with timing device. 3,483,461, 12-9-69, Cl. 320-31.

Schaefer, Juergen: *See—*
Schaefer, Volker; and Schaefer, Juergen,3,437,804.

Schaefer, Orville L., to General Electric Company. Magnetic memory system for the storage of digital information. 3,435,427, 3-25-69, Cl. 340-174.

Schaefer, Otto W. Wire straightening and cutting mechanism. 3,428,097, 2-18-69, Cl. 140-140.

Schaefer, Paul: *See—*
Huber, Helmut; Schaefer, Paul; and Biland, Hans Rudolf,3,423,360.

Schaefer, Paul; Mayer, Fritz; and Maeder, Arthur, to Ciba Limited. Polyalkylene glycol ester-unsaturated acid- methylalamide terpolymers. 3,459,716, 8-5-69, Cl. 260-78.5

Schaefer, Paul; and Oetiker, Alfred, to Ciba Limited. Photographic material for the silver dyestuff bleaching process. 3,455,690, 7-15-69, Cl. 96-73.

Schaefer, Raymond F.: *See—*
Kentfield, John A.; and Schaefer, Raymond F.,3,428,257.

Schaefer, Robert B., to Pennsalt Chemicals Corporation. Destructible valve. 3,472,427, 10-14-69, Cl. 222-147.

Schaefer, Robert G. Barbecue grill. 3,481,320, 12-2-69, Cl. 126-25.

Schaefer, Robert H., to General Motors Corporation. Transmission having speed responsive manual selector valve blockers for forward and reverse speeds. 3,433,098, 3-18-69, Cl. 74-752.

Schaefer, Robert H., to General Motors Corporation. Transmission having a controlled pressure bias decreasing to a predetermined minimum value as the governor speed increases. 3,435,712, 4-1-69, Cl. 74-856.

Schaefer, Robert H., to General Motors Corporation. Transmission control. 3,459,071, 8-5-69, Cl. 74-758.

Schaefer, T. & M., Brewing Company, The: *See—*
Strandskov, Frede B.; and Ziliotto, Henry L., 3,469,992.

Schaefer, Volker; and Schaefer, Juergen, to Quarzlampen Gesellschaft mbH. Light transmitting device. 3,437,804, 4-8-69, Cl. 240-41.35

Schaefer, Werner: *See—*
Kowert, Alexander; Moldenhauer, Kurt; Ries, Ludwig; and Schaefer, Werner,3,454,760.
Ries, Ludwig; Schreiner, Fritz; and Schaefer, Werner,3,454,880.

Schaefer, William A.: *See—*
Schaefer, George William, 3,420,559.

Schaeffer, Andre, to Etablissements Bauchet & Cie. Heat-developable diazotype material. 3,453,112, 7-1-69, Cl. 96-91.

Schaeffer, Charles W.: *See—*
Villa, Peter S.; and Schaeffer, Charles W.,3,447,355.

Schaeffer, Donald W., to Xerox Corporation. Error reduction coding for digital facsimile. 3,484,547, 12-16-69, Cl. 178-6.

Schaeffer, F. & M., Brewing Co., The: *See—*
Di Marco, Gabriel Robert; Hogan, John F., Jr.; Schulman, Hyman L.; and Strandskov, Frede B., 3,443,972.
Sykes, Clarke C., 3,486,624.

Schaeffer, James C.: *See—*
Weinstock, Leonard M.; Schaeffer, James C.; and Mulvey, Dennis M.,3,455,919.

Schaeffer, John I., to Thiokol Chemical Corporation. Rocket combustion chamber and propellant injection apparatus. 3,420,061, 1-7-69, Cl. 60-267.

Schaeffer, John I., to Thiokol Chemical Corporation. Fluid injectors. 3,452,934, 7-1-69, Cl. 239-464.

Schaeffer, Karl, to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Method for producing wraparound plates. 3,481,270, 12-2-69, Cl. 101-401.1

Schaeffer, Marvin G.; and Hays, William A., to General Motors Corporation. Dielectric heating device and Rf control coils therefor. 3,437,776, 4-8-69, Cl. 219-10.53

Schaeffer, Matthew J., to Davis Emergency Equipment Co., Inc. Device or apparatus for detecting in air the presence of combustible or inflammable gases. 3,421,362, 1-14-69, Cl. 73-23.

Schaeffer, Paul F.: *See—*
Green, Joseph; and Schaeffer, Paul F.,3,444,013.

Schaeffer, Robert Dale, to Bliss, E. W., Company. Bolster lift clamp. 3,461,794, 8-19-69, Cl. 100-229.

Schaeffer, Werner. Overhead conveyor with a substantially trough-shaped container of flexible material having a slide fastener type closure. 3,469,288, 9-30-69, Cl. 24-205.1

Schaeffer, William D., to Union Oil Company of California. Preparation of vinyl acetate, acetaldehyde and acetic acid from ethylene. 3,450,748, 617-69, Cl. 260-497.
Schaeffer, William D.: *See—*
Olivier, Kenneth L.; and Schaeffer, William D.,3,461,157.
Schaeffler, Georg, to Industriewerk Schaeffler OHG. Ball bearing for longitudinal moving shafts. 3,464,745, 9-2-69, Cl. 308-6.
Schaeffler, Georg; and Trufel, Anton, to Industriewerk Schaeffler OHG. Cage for cylindrical rollers. 3,442,562, 5-6-69, Cl. 308-217.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi, to Geigy, J. R., A.G. Process for the dyeing of polyamide fibers. 3,467,485, 9-16-69, Cl. 8-54.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi, to Geigy, J. R., A.G. Process for the dyeing of polyamide fibers. 3,468,620, 9-23-69, Cl. 8-54.
Schaeuble, Alfred; Rauchle, Ernst Adolf; and Leutenegger, Willi, to Geigy, J. R., A.G. Dye carrier compositions. 3,471,248, 10-7-69, Cl. 8-54.
Schaevitz Engineering: *See—*
Moskowitz, Lawrence; and Thomas, David W., 3,441,834.
Schafer, Curtiss R., to Oster, John, Manufacturing Co. Reignition system for jet engine. 3,469,398, 9-30-69, Cl. 60-39.82
Schafer, Francis A. Readily accessible rooftop carrier. 3,446,220, 5-27-69, Cl. 135-5.
Schafer, Georg, Kugelfischer, & Co.: *See—*
Schlicht, Hans Georg, 3,477,884.
Schafer, Gerhard: *See—*
Markwardt, Fritz; Schafer, Gerhard; Topfer, Horst; and Walsmann, Peter,3,432,596.
Schafer, Hans, to Siemens Aktiengesellschaft. Helical-seam resistance tube welding apparatus. 3,470,344, 9-30-69, Cl. 219-62.
Schafer, Heinrich; Henkel, Paul; and Weist, Martin, to Farbenfabriken Bayer Aktiengesellschaft. Process for concentrating sodium dichromate solutions. 3,451,766, 6-24-69, Cl. 23-56.
Schafer, Heinz: *See—*
Sus, Oskar; and Schafer, Heinz,3,473,928.
Schafer, Helmut Karl; and Kohlhaas, Rudolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Condensation products of urea, a saturated aldehyde of 3-4 carbon atoms and formaldehyde and process for making them. 3,441,539, 4-29-69, Cl. 260-69.
Schafer, Helmut R.Method for preparing 7-(β-hydroxyalkylamino-γ-dibutylamino-propyl)-theophyllines. 3,424,753, 1-28-69, Cl. 260-256.
Schafer, Helmut. Arrangements for sorting imperfect sheets of material from a web of material. 3,454,160, 7-8-69, Cl. 209-111.7
Schafer, Johannes; Berg, Gerhard; and Engel, Frederico, to Chemische Werke Huls Aktiengesellschaft. Process for obtaining a controlled increase in the molecular weight of unsaturated polymeric hydrocarbons. 3,450,797, 6-17-69, Cl. 260-888.
Schafer, Juergen: *See—*
Seitz, Ernst-Otto; Schafer, Volker; and Schafer, Juergen,3,437,803.
Schafer, Kenneth A., to Freeman Chemical Corporation. Filamentary reinforcement for laminated articles and related methods. 3,428,518, 2-18-69, Cl. 161-170.
Schafer, Leonhard. Fourfold pastry making device. 3,420,194, 1-7-69, Cl. 107-9.
Schafer, Robert H., to Schafer-Davis Engineering Co., Inc. Means or aspirating liquid and solid materials. 3,446,157, 5-27-69, Cl. 103-258.
Schafer, Robert J.: *See—*
Robins, Janis; and Schafer, Robert J.,3,426,831.
Schafer, Rudolf: *See—*
Nonnenmacher, Friedrich Karl; and Schafer, Rudolf,3,457,989.
Schafer, Siegfried: *See—*
Schweizerhof, Sigfrid; and Schafer, Siegfried,3,482,225.
Schweizerhof, Sigfrid; and Schafer, Siegfried,3,483,538.
Schafer, Volker: *See—*
Seitz, Ernst-Otto; Schafer, Volker; and Schafer, Juergen,3,437,803.
Schafer, Walter Dale, to Solid State Electronics Pty. Limited. Electronic picture display system permitting transmission of information from camera to monitor through a narrow bandwidth data link. 3,453,383, 7-1-69, Cl. 178-6.8
Schafer, Willi: *See—*
Dorner, Nikolaus; Freitag, Herbert; Sautter, Hans-Dieter; Schafer, Willi; and Doetsch, Hans-Peter,3,447,645.
Schafer, Wolfgang, to Chemische Werke Huls Aktiengesellschaft. Process for the preparation of hexamethyl- bicyclo [2,2,0] hexadiene-(2,5) (Hexamethyl- Dewar-Benzol). 3,439,055, 4-15-69, Cl. 260-666.
Schafer, Wolfgang; and Blass, Reinhold, to Vereinigte Glaswerke Zweigniederlassung der Compagnie de Saint-Gobain. Binders for sheet glass. 3,425,894, 2-4-69, Cl. 161-203.
Schafer-Davis Engineering Co., Inc.: *See—*
Schafer, Robert H., 3,446,157.
Schaffer, Francis C. Inclined diffuser. 3,420,708, 1-7-69, Cl. 127-5.
Schaffer, Harry J.: *See—*
Peterson, Gerald D.; and Schaffer, Harry J.,3,459,527.
Schaffer, Heinrich, to Ruti Machinery Works Ltd. Device and method for producing a selvedge. 3,443,602, 5-13-69, Cl. 139-122.
Schaffer, Heinrich, to Ruti Machinery Works Ltd. Arrangement on a loom for selecting and drawing off weft yarn to a predetermined length. 3,444,900, 5-20-69, Cl. 139-122.
Schaffer, Heinrich, to Ruti Machinery Works Ltd. Weaving shuttle. 3,444,901, 5-20-69, Cl. 139-125.
Schaffer, Irving: *See—*
Siff, Elliott J.; and Schaffer, Irving,3,436,706.
Schaffer, Philip S.: *See—*
Campbell, William B.; and Schaffer, Philip S.,3,449,147.
Schaffer, Robert G., to Central Specialties Co. Display hanger with crossbar and removable support assembly. 3,463,324, 8-26-69, Cl. 211-123.
Schaffer, Robert R.: *See—*
Jackowski, Charles S.; Jensen, Donald F.; Muller, Hans R.; Noll, Melvin R.; and Schaffer, Robert R.,3,466,610.
Schaffer, Werner. Transporting arrangement with trough-shaped containers of flexible material. 3,442,405, 5-6-69, Cl. 214-42.
Schaffhauser, William V., to Plastic Wire & Cable Corporation. Flotation cable. 3,483,313, 12-9-69, Cl. 174-101.5
Schaffler, Georg, to Keller & Knappich G.m.b.H. Scrap baling press truck. 3,486,440, 12-30-69, Cl. 100-215.
Schaffner, Alfred C., to Westinghouse Electric Corporation. Zirconium electrode for electro-chemical machining. 3,485,744, 12-23-69, Cl. 204-290.
Schaffner, Donald L., to Allis-Chalmers Manufacturing Company. Cushioned equalizer beam for crawler tractor. 3,464,512, 9-2-69, Cl. 180-9.54
Schaffner, Hubert, to Fluckinger & Cie. Method of making luminescent dial with resin and fluoroscent top layer. 3,436,242, 4-1-69, Cl. 117-8.
Schaffner, Kurt: *See—*
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli,3,428,537.
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli,3,478,068.
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli,3,483,235.
Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt,3,454,599.
Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt,3,484,456.
Schaffner Manufacturing Company, Inc.: *See—*
Yokel, Donald R., 3,462,888.
Schaffrath, Paul M., to Black Clawson Company, The. Paper machinery. 3,468,242, 9-23-69, Cl. 100-121.
Schafft, Hugo W., to Motorola, Inc. Method for polarizing piezoelectric material. 3,430,316, 3-4-69, Cl. 29-25.35
Schafft, Hugo W., to Motorola, Inc. Piezoelectric transformer. 3,487,239, 12-30-69, Cl. 310-8.5
Schafft, Hugo W.; and Goncharoff, Nikolai, to Motorola, Inc. Electromechanical reverberation delay device. 3,431,516, 3-4-69, Cl. 333-30.
Schafler, Armando Birlain; and Lombardo, Allan Kilroe. Process for preparing a planographic plate. 3,459,642, 8-5-69, Cl. 204-41.
Schafly, Hubert J., to TelePro Industries Incorporated. Punch-tape and signal mechanism. 3,459,084, 8-5-69, Cl. 83-213.
Schafroth, Werner: *See—*
Cairatti, Anthony E., 3,434,393.
Schaftner, Erich: *See—*
Ruprecht, Robert; and Schaftner, Erich,3,444,749.
Schagen, Pieter; and Stark, Alexander, to North American Philips Company, Inc. Image pick-up devices. 3,444,322, 5-13-69, Cl. 178-7.87
Schaible, Aaron M., to International Harvester Company. Wafer hold time extension conveyor. 3,447,452, 6-3-69, Cl. 100-151.
Schaible, Aaron M.; and Langdon, John E., to Case, J. I., Company. Valve for concrete pump. 3,437,311, 4-8-69, Cl. 251-324.
Schaich, Wilbur A., to Owens-Illinois, Inc. Multipack container carrier. 3,460,863, 8-12-69, Cl. 294-87.2
Schaich, Wilbur A., to Owens-Illinois, Inc. Method for making hollow plastic containers with offset finish. 3,470,283, 9-30-69, Cl. 264-97.
Schainholz, Herbert; and Katz, Peter, to Rosenberg, Edgar A. Individual selective response recorder. 3,460,154, 8-5-69, Cl. 346-60.
Schalin, Edmund, to Diamond Shamrock Corporation. Polyol containing chlorine as a flame- retarding agent. 3,448,046, 6-3-69, Cl. 252-8.1
Schalit, Samuel: *See—*
Cutler, Royal A.; and Schalit, Samuel,3,468,898.
Schalk, Heinz: *See—*
Rieckmann, Peter; and Schalk, Heinz,3,456,050.
Schall, Hans: *See—*
Loffler, Josef; Rampp, Egon; and Schall, Hans,3,476,378.
Schall, William L.: *See—*
Sconce, James S.; Hodan, James J.; and Schall, William L.,3,428,714.
Schallehn, Hans-Georg, to Rheinstahl Henschel A.G. Lock for gas and watertight closing of flaps, gates, doors and the like. 3,479,076, 11-18-69, Cl. 292-67.
Schaller, Albert: *See—*
Vivares, Claude; and Schaller, Albert,3,486,382.

Schaller, Clarence Randall, Jr., to Ace Engineering & Machine Co., Inc. Door construction for shielded room. 3,437,735, 4-8-69, Cl. 174-35.
Schaller, Frank H.; Richter, Eugene G.; and Lozeau, Paul R., to Honeywell Inc. Selection apparatus. 3,421,754, 1-14-69, Cl. 271-61.
Schaller, Frank H.: *See—*
Hearn, Glenn R.; Rollins, James A.; and Schaller, Frank H.,3,474,232.
Schaller, Harold E., to John E. Smith's Sons Co., div. of Hobam, Inc. Vibration damping pad. 3,477,674, 11-11-69, Cl. 248-24.
Schaller, Harold E., to Smith's, John E., Sons Co., division of Hobam, Inc. Lift apparatus. 3,486,649, 12-30-69, Cl. 214-314.
Schaller, Heinrich: *See—*
Anderau, Walter; and Schaller, Heinrich,3,455,694.
Schaller, John W., to AAI Corporation. Pulse discriminating hit indicator arrangement. 3,434,226, 3-25-69, Cl. 35-25.
Schaller, Robert L., to Sundstrand Corporaton. Reversible contact wheel for centerless grinders. 3,427,756, 2-18-69, Cl. 51-135.
Schaller, Robert L., to Sundstrand Corporation. Endless belt abrading machine. 3,451,174, 6-24-69, Cl. 51-148.
Schaller, Robert L., to Sundstrand Corporation. Work rest structure for centerless grinders. 3,466,810, 9-16-69, Cl. 51-238.
Schallert, Heino, to Bosch, Robert, G.m.b.H. Auxiliary heater for automative vehicles. 3,463,392, 8-26-69, Cl. 237-12.3
Schaltin, Walter Malvine: *See—*
Deschuttere, Lucien Roger; Scharpe, Ludo Adriaan; Schaltin, Walter Malvine; and Peeters, Gustaaf Joannes,3,469,275.
Schamblin, Charles H. M. Vibratory hat for scalp massaging. 3,481,326, 12-2-69, Cl. 128-24.2
Schamel, Clyde H.: *See—*
Field, Robert O.; and Schamel, Clyde H.,3,433,526.
Schamel, Clyde H., to General Motors Corporation. Retractable window regulator handle assembly. 3,475,986, 11-4-69, Cl. 74-547.
Schaming, Guillaume, to Societe Anonyme Schostal. Positive grip shearing means. 3,451,298, 6-24-69, Cl. 83-198.
Schampers, Paulus Philippus Maria: *See—*
De Haan, Edward Fokko; Schampers, Paulus Philippus Maria; and Van Vucht, Johannes Hendrikus Nicolaas,3,444,412.
Schanafelt, Raymond A.; Obear, Robert F.; and Milnikel, Clarence E., to American Railroad Supply Company. Turntable saw. 3,421,266, 1-14-69, Cl. 51-178.
Schanck, James L.: *See—*
Vaneman, Gerald L.; and Schanck, James L.,3,486,361.
Schanen, Robert R., to Modern Equipment Company. Cupolas. 3,424,446, 1-28-69, Cl. 266-31.
Schank, Richard L.; and Williams, Thomas C., to Union Carbide Corporation. Heat-curable amino-organosilicon compositions and the cured elastomers derived therefrom. 3,449,289, 6-10-69, Cl. 260-37.
Schankler, Martin M. Liner type pool construction. 3,419,916, 1-7-69, Cl. 4-172.
Schankler, Martin M. Prefabricated swimming pool construction. 3,419,917, 1-7-69, Cl. 4-172.
Schanz, Hans, to Teves, Alfred, G.m.b.H. Piston-cylinder assembly with seal means and corrosion preventing means therefor. 3,476,221, 11-4-69, Cl. 188-152.
Schanz, Hans, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Seal assembly. 3,476,398, 11-4-69, Cl. 277-162.
Schaper, Hans: *See—*
Schmitt, Johannes; and Schaper, Hans,3,434,945.
Schaper, Raymond J.; and Hoover, Merwin Frederick, to Calgon Corporation, mesne. Electroconductive paper. 3,486,932, 12-30-69, Cl. 117-201.
Schapira, William W.; and Berkelhamer, Louis H., to Consolidated Electronics Industries Corporation. Variable transformer having terminals held by core housing. 3,436,709, 4-1-69, Cl. 336-192.
Schappel, Joseph W.: *See—*
Bockno, Gregory C.; Da Vincii, Anthony P.; and Schappel, Joseph W.,3,434,913.
Kuzmak, Joseph M.; and Schappel, Joseph W.,3,445,556.
Scharer, Edward B.: *See—*
Dykzeul, Theodore J.; and Scharer, Edward B.,3,448,764.
Katchka, Jay R.; McAllister, Donald; and Scharer, Edward B.,3,454,038.
Scharer, Herman W.: *See—*
Henkel, Neville T.; and Scharer, Herman W.,3,461,712.
Henkel, Neville T.; and Scharer, Herman W.,3,473,441.
Scharer, Herman W., to Henkel, Neville T. Locking device for adjustable gearing. 3,426,610, 2-11-69, Cl. 74-397.
Schares, Hermann Josef; and Wallerich, Horst. Road constructional implements. 3,485,532, 12-23-69, Cl. 299-37.
Scharf, Willi; and Overlach, Hans. Transport trolley for parking garages. 3,435,965, 4-1-69, Cl. 214-16.1
Scharfe, Gerhard: *See—*
Kronig, Walter; Halcour, Kurt; and Scharfe, Gerhard,3,459,657.
Kronig, Walter; Mayrhofer, Wilhelm; Scharfe, Gerhard; Schwerdtel, Wulf; and Halcour, Kurt,3,485,887.
Scharfen, Hans: *See—*
Deuring, Karl; and Scharfen, Hans,3,469,856.
Scharfetter, Donald L.: *See—*
De Loach, Bernard C., Jr.; Gummel, Hermann K.; and Scharfetter, Donald L.,3,426,295.
Scharler, Johann: *See—*
Ebenbichler, Hubert; Pluhar, Franz; and Scharler, Johann,3,453,930.
Scharli, Otto, to Aktiengesellschaft Brown, Boveri & Cie. Semiconductor structure disc having PN junction with improved heat and electrical conductivity at outer layer. 3,480,842, 11-25-69, Cl. 317-234.
Scharmann & Co.: *See—*
Schraub, Wilhelm; and Becker, Toni, 3,486,412.
Scharmann, Lawrence E., to United States of America, Army. Mechanical damping of planar vacuum tube grids. 3,487,253, 12-30-69, Cl. 313-269.
Scharmer, Edward H., Jr., to Minneapolis Sewing Machine Inc. Sewing machine. 3,425,377, 2-4-69, Cl. 112-221.
Scharmer, Edward H., Jr., to Doughboy Industries, Inc. Sewing machine. 3,443,539, 5-13-69, Cl. 112-169.
Scharpe, Ludo Adriaan: *See—*
Deschuttere, Lucien Roger; Scharpe, Ludo Adriaan; Schaltin, Walter Malvine; and Peeters, Gustaaf Joannes,3,469,275.
Scharper S.a.s. per l'Industria Farmaceutica di Dott. M. Fazzini & C.:*See—*
Fazzini, Massimo, 3,472,871.
Scharpf, William G., to FMC Corporation. 8-Chromanyl-carbamate esters. 3,468,913, 9-23-69, Cl. 260-345.2
Scharpf, William G., to FMC Corporation. Pesticidal carbamates of dihydrobenzofuranols. 3,474,170, 10-21-69, Cl. 424-285.
Scharpf, William G., to FMC Corporation. 2,2-Dimethyl-2,3-dihydrobenzo-furanyl-7-N- methylcarbamate. 3,474,171, 10-21-69, Cl. 424-285.
Scharrer, Roland Pierre: *See—*
Milks, John Edward; and Scharrer, Roland Pierre,3,439,024.
Scharschmidt, Rudolph K.; and Kenyon, Ralph Edward, to General Foods Corporation. Process of freeze-drying blueberries. 3,467,530, 9-16-69, Cl. 99-204.
Schartel, Ronald S.: *See—*
Iannucci, Vincent A.; and Schartel, Ronald S.,3,480,216.
Schatteman, Etienne Arthur Marie, to Staar, S.A. Stop system for tape decks. 3,433,428, 3-18-69, Cl. 242-55.13
Schattler, James J., to Pollak, Joseph, Corporation. Heavy duty relay with wiping contacts. 3,465,270, 9-2-69, Cl. 335-132.
Schatz, Friedrich: *See—*
Klebl, Wolfram; Kubiak, Herbert; Staschewski, Harry; and Schatz, Friedrich,3,455,098.
Kubiak, Herbert; Schatz, Friedrich; and Staschewski, Harry,3,444,679.
Schatzman, Edmond A.: *See—*
Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A.,3,468,669.
Schaub, Erwin L.: *See—*
Schmidt, Eugene D.; and Schaub, Erwin L.,3,456,548.
Schaub, Fred C., to Hanchett Manufacturing Company-Raydyne Division. Balance testing apparatus head. 3,452,604, 7-1-69, Cl. 73-475.
Schaub, Paul W.: *See—*
Goodwin, Robert J.; Mori, Ernest A.; Pekarek, Joseph L.; Schaub, Paul W.; and Zinkham, Robert E.,3,467,211.
Mori, Ernest A.; and Schaub, Paul W.,3,424,255.
Schaub, Robert Eugene; Kissman, Henry Marcel; and Weiss, Martin Joseph, to American Cyanamid Company. 16-Substituted estratrienes and methods of preparing the same. 3,440,243, 4-22-69, Cl. 260-239.55
Schaub, Robert Eugene; and Weiss, Martin Joseph, to American Cyanamid Company. Method of preparing 16α,17α-dimethyl-pregn- 20-ones. 3,483,236, 12-9-69, Cl. 260-397.45
Schauder, Friedrich: *See—*
Spoor, Herbert; Florus, Gerhard; Pohlemann, Heinz; and Schauder, Friedrich,3,455,806.
Spoor, Herbert; Pohlemann, Heinz; Florus, Gerhard; and Schauder, Friedrich,3,454,482.
Schauer, Siegfried, to Gebr. Pfeiffer Barbarossawerke AG. Sifter of the circulating air type. 3,476,244, 11-4-69, Cl. 209-133.
Schauerte, Edward K. Rocking platform exerciser. 3,475,020, 10-28-69, Cl. 272-56.
Schaufelberger, Gretchen S., to Union Carbide Corporation. Fibers and fabrics finished with a dicarboxylic reagent modified polyolefin wax. 3,450,559, 6-17-69, Cl. 117-126.
Schaufelberger, Roy H., to Union Carbide Corporation. Thermoplastic polyhydroxy ether and liquid epoxy compositions. 3,424,707, 1-28-69, Cl. 260-32.8
Schauffler, Peter P. Electronic channel guidance system. 3,422,427, 1-14-69, Cl. 343-6.
Schaum Chemie, Wilhelm Baner K.-G.: *See—*
Bar, Karl, 3,434,805.
Schaumann, Wolfgang: *See—*
Gal, Rudi; Haack, Erich; Stach, Kurt; Schaumann, Wolfgang; and Ritter, Klaus,3,462,432.
Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang,3,458,628.

Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang,3,471,614.
Popelak, Alfred; Lettenbauer, Gustav; Schaumann, Wolfgang; and Ribbentrop, Annemarie,3,464,995.
Stach, Kurt; Winter, Werner; Schaumann, Wolfgang; and Ribbentrop, Annemarie,3,454,582.
Thiel, Max; Winter, Werner; Stach, Kurt; Schaumann, Wolfgang; and Dietmann, Karl,3,471,472.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt,3,462,528.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt,3,476,742.

Schaumburger, Carol: *See—*
Nadasan, Stefan; Sulea, Paul; Popescu, Dumitru; Schaumburger, Carol; and Bakonyi, Coloman,3,450,236.

Schaus, Orland O., to Canadian Breweries, Limited. Method for continuous lautering. 3,436,226, 4-1-69, Cl. 99-52.

Schaus, Orland Otto. Apparatus for continuous lautering. 3,452,669, 7-1-69, Cl. 99-276.

Schaus, Orland Otto; and Papadopoulos, Antonios, to Canadian Breweries Limited. Two stage fermentation process for beer. 3,437,490, 4-8-69, Cl. 99-31.

Schausberger, Helmut: *See—*
Wick, Richard; Kwiatkowski, Wolfgang; and Schausberger, Helmut,3,430,945.

Schaverien, Louis Joseph, to Ezekiel, Freddy Jacob. Combined sink and clothing and crockery washing machine. 3,456,462, 7-22-69, Cl. 68-4.

Schawalder, Albert, to Maclevy, Monty. Body exerciser apparatus for the home. 3,465,750, 9-9-69, Cl. 128-57.

Schayer, Richard W., to Unimed, Inc. Prevention of corticosteroid side effects. 3,474,168, 10-21-69, Cl. 424-240.

Schayes, Raymond; and Gourlet, Roger, to Manufacture Belge de Lampes et de Materiel Electronique en abrege MBLE. Measuring instrument for use with a thermoluminescent dosimeter. 3,450,884, 6-17-69, Cl. 250-206.

Scheafbauer, Michael P. Converting means for forming stairwell storage closet. 3,419,999, 1-7-69, Cl. 49-33.

Scheben, John A.; and Mador, Irving L., to National Distillers and Chemical Corporation. Preparation of alpha, beta-unsaturated acyl halides. 3,468,947, 9-23-69, Cl. 260-544.

Scheben, John A.; and Mador, Irving L., to National Distillers and Chemical Corporation. Process for cyclodimerizing 1,2-oxiranes, 1,2- thiiranes and 1,2-aziridines. 3,480,632, 11-25-69, Cl. 260-268.

Scheben, John A.; Mador, Irving L.; and Orchin, Milton, to National Distillers and Chemical Corporation. Novel organometallic complexes. 3,450,730, 6-17-69, Cl. 260-429.

Scheben, John A.: *See—*
Mador, Irving L.; and Scheben, John A.,3,423,456.
Mador, Irving L.; and Scheben, John A.,3,452,090.
Mador, Irving L.; and Scheben, John A.,3,454,632.

Schechter, Dale L.: *See—*
Goodwald, Herman R.; and Schechter, Dale L.,3,423,283.
Goodwald, Herman R.; and Schechter, Dale L.,3,436,302.

Schecter, Steven L. Jet and rocket engine powered air-borne vehicles. 3,446,460, 5-27-69, Cl. 244-52.

Scheda, Francis A., to Westinghouse Electric Corporation. Concentric coil stator winding for polyphase dynamoelectric machine. 3,470,409, 9-30-69, Cl. 310-180.

Schedele, Helmut: *See—*
Fischer, Josef; Krautwald, Herbert; and Schedele, Helmut,3,439,313.
Fischer, Joseff; Krautwald, Herber; and Schedele, Helmut,3,420,973.
Lindner, Werner; Krautwald, Herbert; and Schedele, Helmut,3,479,623.

Scheel, John R., to Hawley Manufacturing Corporation. Fuel receiver with automatic damper. 3,481,265, 12-2-69, Cl. 98-115.

Scheel, John R.; and Nordman, Adolph J., Jr., to Hawley Manufacturing Corporation. Traveling aspirator system with valving means. 3,478,668, 11-18-69, Cl. 98-115.

Scheel, Jurgen, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Pneumatic goods withdrawal with turning apparatus. 3,473,350, 10-21-69, Cl. 66-149.

Scheer, Charles L., to Foote Mineral Company. Method for removal of adherent surface coatings from substrates. 3,420,758, 1-7-69, Cl. 204-105.

Scheer, William H., to Bell Telephone Laboratories, Incorporated. Traffic controlled switching circuitry for limiting access to a group of communication paths. 3,440,354, 4-22-69, Cl. 179-18.

Scheerer, Ernest O. Collapsible ladders. 3,439,776, 4-22-69, Cl. 182-160.

Schefczik, Ernst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Phthalimide dyes of the mono azo series. 3,468,872, 9-23-69, Cl. 260-152.

Scheffel, Walter, to Agfa-Gevaert Aktiengesellschaft. Apparatus for actuating the cutter of an enlarger for photographically printing images from microfilm. 3,443,867, 5-13-69, Cl. 355-29.

Scheffel, Werner: *See—*
Jaeger, Karl; and Scheffel, Werner,3,432,995.

Scheffels, Wilhelm: *See—*
Meyer, Edgar; and Scheffels, Wilhelm,3,478,244.
Schleich, Fritz; and Scheffels, Wilhelm,3,469,065.

Scheffer, Donald G.: *See—*
Butterworth, Lyle J.; Hiegel, Larry D.; and Scheffer, Donald G.,3,447,176.

Scheffer, Harvey D. Gibson, to Radio Corporation of America. Wire handling apparatus. 3,438,403, 4-15-69, Cl. 140-1.

Scheffer, Harvey D. Gibson, to Radio Corporation of America. Wire stringing machine. 3,438,405, 4-15-69, Cl. 140-93.

Scheffer, Harvey D. Gibson, to RCA Corporation. Wire handling apparatus. 3,448,777, 6-10-69, Cl. 140-92.1

Scheffer, Joseph F.; and Nail, Billie G., to Columware, Inc. Hopper discharge rate control. 3,481,512, 12-2-69, Cl. 222-413.

Scheffler, Clarence E. Dual automotive brake system. 3,486,591, 12-30-69, Cl. 188-106.

Scheffler, Clarence E., to Ford Motor Company. Protection device for a speed sensing system. 3,487,247, 12-30-69, Cl. 310-168.

Scheffler, Friedrich; Stangl, Ernst; and Gehrmann, Friedrich Karl, to AEG-Elotherm G.m.b.H. Apparatus for inductively heating workpieces. 3,449,539, 6-10-69, Cl. 219-10.69

Scheffler, Norman E., to Dow Chemical Company, The. Process for making foamable isotactic polystyrene. 3,449,268, 6-10-69, Cl. 260-2.5

Scheffler, Norman E.; and Brown, Frederick Le Roy, to Dow Chemical Company, The. Process of laminating wood using vinylidene chloride-acrylonitrile copolymer latex based adhesives. 3,449,194, 6-10-69, Cl. 156-331.

Scheffler, Paul H., Jr., to Westinghouse Electric Corporation. Aluminum production apparatus. 3,468,365, 9-23-69, Cl. 164-266.

Scheffler, Paul H., to Westinghouse Electric Corporation. Controllable flow pump. 3,459,133, 8-5-69, Cl. 103-88.

Scheflow, Oliver W., to Pneumo Dynamics Corporation. Pressure regulator assembly. 3,481,357, 12-2-69, Cl. 137-116.5

Schefter, Lothar: *See—*
Bayati, Abutorab; Peiser, Rudolf; and Schefter, Lothar,3,461,384.

Scheg, Robert F.: *See—*
Lovick, Robert C.; and Scheg, Robert F.,3,485,961.

Schegolev, Igor Stepanovich: *See—*
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.

Scheib, Hermann; and Adam, Gunter, to Marker, Hannes. Heel holders for safety ski bindings. 3,428,329, 2-18-69, Cl. 280-11.35

Scheibe, Elias W.: *See—*
Wortman, Donald E.; Norton, Barry W.; and Scheibe, Elias W.,3,450,228.

Scheibel, Josef: *See—*
Krull, Ernst; Scheibel, Josef; and Roth, Johann,3,452,658.

Scheibelhoffer, Anthony S., to Goodyear Tire & Rubber Company, The. Polyurethanes cured with anhydrous diamine- ketone mixture. 3,463,748, 8-26-69, Cl. 260-18.

Scheiber, Werner; Walter, Peter; Lehmann, Rolf; and Kowarik, Klaus, to Metallgesellschaft Aktiengesellschaft. Electrophoretic coating process in a medium containing a resin plus powdered plastic material. 3,476,668, 11-4-69, Cl. 204-181.

Scheid, Theodore G., III; and Schwaneke, Fredrich C., to Northern Electric Company. Thermal switch assembly having juxtaposed auxiliary heater. 3,426,306, 2-4-69, Cl. 337-14.

Scheidegger, Rene, to Mettler Instrumente AG. Heatable stage for a microscope. 3,472,726, 10-14-69, Cl. 165-48.

Scheider, Carl: *See—*
Schneider, William S.; and Corella, Arthur P., 3,432,986.

Scheider, Robert C., to Ford Motor Company. Shock absorber evaluation method. 3,477,273, 11-11-69, Cl. 73-11.

Scheidler, Frederick E.: *See—*
Lanctot, Robert S.; and Scheidler, Frederick E.,3,454,046.

Scheidt, James E.: *See—*
Cryder, John R.; Field, Jesse L., Jr.; Lohbauer, Kenneth R.; and Scheidt, James E.,3,486,418.

Scheidt, James E., to Caterpillar Tractor Company. Control circuit for bulldozers used in pushing. 3,472,127, 10-14-69, Cl. 91-437.
Oldenburg, Dorrance; Scheidt, James E.; and Shook, Donald L.,3,483,890.

Scheier, Stanley C., to Kendall Company, The. Sewn diaper with non-raveling stitching. 3,424,161, 1-28-69, Cl. 128-284.

Scheier, Stanley C., to Kendall Company, The. Fabric having ravel resistant edge portion. 3,468,746, 9-23-69, Cl. 161-63.

Scheifele, Hudson B., to Federal-Mogul Corporation. Seal for bearing assembly. 3,425,758, 2-4-69, Cl. 308-187.2

Scheiff, Gilbert: *See—*
Cabantous, Marcel Amans; and Scheiff, Gilbert,3,452,535.

Scheinbaum, Henry, to Estee Battery Company. Battery connector. 3,436,719, 4-1-69, Cl. 339-224.

Scheineman, John A., to Shell Oil Company. Non-linear operating linkage for a rate-of-flow control valve. 3,474,829, 10-28-69, Cl. 137-625.32

Scheiner, Peter: *See—*
Offenhauer, Robert D.; and Scheiner, Peter,3,431,189.
Scheiner, Peter. Method for preparing aziridines by photolysis of triazolines. 3,428,538, 2-18-69, Cl. 204-158.
Scheinert, Richard R., to Outboard Marine Corporation. Method and apparatus for loading multilevel railroad cars. 3,445,013, 5-20-69, Cl. 214-38.
Scheingold, William S.: *See—*
Krum, Alan; Ruehlemann, Herbert E.; and Scheingold, William S.,3,474,387.
Scheinost, Kurt, to Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft Trostberg. Melamine production. 3,438,987, 4-15-69, Cl. 260-249.7
Scheinpflug, Hans; Jung, Herbert Ferdinand; and Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Phospho-acid esters as fungitoxic agents. 3,459,857, 8-5-69, Cl. 424-215.
Scheinpflug, Hans: *See—*
Schrader, Gerhard; and Scheinpflug, Hans,3,457,332.
Ugi, Ivar; Fetzer, Uwe; Unterstenhofer, Gunter; Behrenz, Wolfgang; Frohberger, Paul-Ernst; and Scheinpflug, Hans,3,422,190.
Scheirich, H. J., Company: *See—*
Himelreich, Louis E., 3,472,571.
Himelreich, Louis E., 3,472,572.
Scheiterlein, Andreas, to List, Hans. Internal combustion engine. 3,444,845, 5-20-69, Cl. 123-41.82
Scheiterlein, Andreas; Skatsche, Othmar; and Thien, Gerhard, to List, Hans. Soundproofed internal combustion engine. 3,464,398, 9-2-69, Cl. 123-195.
Scheithauer, Walter: *See—*
Menell, Hans; and Scheithauer, Walter,3,481,386.
Scheithauer, William, Jr.: *See—*
Bargainnier, Roger B.; Scheithauer, William, Jr.; and Shaffer, Glenn A.,3,447,230.
Scheitlin, Erwin, to Sandoz Ltd., a/k/a Sandoz AG. Process for the production of azo compounds. 3,441,556, 4-29-69, Cl. 260-192.
Scheitlin, George E.; and Brighton, John C., to Arvin Industries, Inc. Rearview mirror and adjusting mechanism therefor. 3,427,094, 2-11-69, Cl. 350-281.
Scheitlin, Thomas G.; Hames, William A.; and Koch, Alan J., to Whirlpool Corporation. Removable unitary refrigeration system. 3,433,031, 3-18-69, Cl. 62-448.
Schekochikhin, Serafim Vasilievich: *See—*
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.
Scheler, Siegfried: *See—*
Munder, Johannes; Scheler, Siegfried; and Brahm, Richard,3,459,550.
Schelkmann, Wilhelm, to VV International Limited. Tread for recapping tires and method of application of the tread. 3,455,753, 7-15-69, Cl. 156-96.
Schell, Burt E., Jr., to Speedrack, Inc. Structural lock. 3,468,574, 9-23-69, Cl. 287-189.36
Schell, Elmer H.: *See—*
Wells, David R.; Schell, Elmer H.; and Franklin, James W.,3,482,813.
Schell, James E. Toilet seat fastener. 3,431,004, 3-4-69, Cl. 292-258.
Schell, Sidney L.; and Austin, Max M., said Schell assor to Dodwell, John M., and said Austin assor to National-Standard Company. Clutch band and method of making same. 3,483,955, 12-16-69, Cl. 192-41.
Schell, William Raymond, to United States of America, Air Force, mesne. Cryogenic gas counting apparatus. 3,458,701, 7-29-69, Cl. 250-83.
Schellenbaum, Max: *See—*
Duennenberger, Max; and Schellenbaum, Max,3,470,232.
Schellenberg, Anselm Gotthard, to International Business Machines Corporation. Iformation translating data comparing systems. 3,465,299, 9-2-69, Cl. 340-172.5
Schelleng, Robert D.; and Kies, Frederick K., to International Nickel Company, Inc., The. Method of heat treating a ductile austenitic ductile iron casting including refrigeration treatment and article produced thereby. 3,485,683, 12-23-69, Cl. 148-125.
Schelleng, Robert Douglas, to International Nickel Company, Inc., The. Cast iron with at least 50% of the graphite in vermicular form and a process for making same. 3,421,886, 1-14-69, Cl.
Scheller, Hans: *See—*
Dietze, Manfred; Kraft, Wolfgang; Scheller, Hans; and Ullrich, Hansjurgen,3,466,150.
Scheller, Hans, to Vickers-Zimmer Aktiengesellschaft, Planung und Bau von Industrieanlagen. Continuous polyester process. 3,438,942, 4-15-69, Cl. 260-75.
Scheller, Walter: *See—*
Neuenschwander, Ernst; Schuett, Klaus; and Scheller, Walter,3,429,661.
Schellhammer, Carl-Wolfgang: *See—*
Wirth, Wolf-Dieter; Knupfer, Hans; Schellhammer, Carl-Wolfgang; Schonol, Karl; and Scholermann, Walter,3,420,835.
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang,3,422,113.
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang,3,446,805.
Schellhas, Herbert H. Container closure having threaded collar. 3,486,654, 12-30-69, Cl. 215-43.
Schelling, James H.: *See—*
Masciantonio, Philip X.; and Schelling, James H.,3,431,266.
Schellinger, Alfred Kenneth: *See—*
Spedden, Henry Rush; and Schellinger, Alfred Kenneth,3,436,176.
Spedden, Henry Rush; and Schellinger, Alfred Kenneth,3,436,177.
Schellstede, Herman J.: *See—*
Schellstede, Herman J.; and Sanders, Thomas M., 3,458,922.
Schellstede, Herman J.; and Sanders, Thomas M., to Schellstede, Herman J., mesne. Method of constructing a drill pipe protector means. 3,458,922, 8-5-69, Cl. 29-475.
Schellstede, Herman J.; and Sanders, Thomas M. Drill pipe protector and method of constructing the same. 3,484,122, 12-16-69, Cl. 285-286.
Schembs, Wolfgang: *See—*
Meer, Winfried; Hargasser, Hans; and Schembs, Wolfgang,3,450,964.
Schenck, Carl, Maschenenfabrik G.m.b.H.: *See—*
Birkholtz, Gottfried, 3,453,582.
Schenck, Carl, Maschinenfabrik GmbH: *See—*
Hack, Heinrich, 3,457,623.
Schenck, Hermann; and Wenzel, Werner, to Steinmuller, L. & C. G.m.b.H. Apparatus for making carbon lamellae, carbon discs, carbon sheets and the like. 3,431,594, 3-11-69, Cl. 18-4.
Schenck, Hermann; and Wenzel, Werner. Process of producing high-strength ore pellets. 3,433,625, 3-18-69, Cl. 75-5.
Schenck, Hermann; and Wenzel, Werner. Conveying coking apparatus with a downwardly extending tubular heating means. 3,476,651, 11-4-69, Cl. 202-117.
Schenck, Hermann; Wenzel, Werner; and Block, Franz-Rudolf. Process for reducing iron ores. 3,469,969, 9-30-69, Cl. 75-26.
Schenck, John R., to Klopman Mills, Inc. Treatment of textile fabric. 3,449,060, 6-10-69, Cl. 8-125.
Schenck, Leslie M.: *See—*
Eiseman, Fred S., Jr.; and Schenck, Leslie M.,3,426,077.
Eiseman, Fred S., Jr.; and Schenck, Leslie M.,3,454,624.
Eiseman, Fred S., Jr.; and Schenck, Leslie M.,3,454,625.
Eiseman, Fred S., Jr.; Schenck, Leslie M.; and Mackey, E Scudder,3,442,654.
Grifo, Richard A.; Walts, John M.; and Schenck, Leslie M.,3,468,805.
Hodgkiss, John A.; Komor, Joseph A.; and Schenck, Leslie M.,3,437,697.
Nehmsmann, Louis J.; and Schenck, Leslie M.,3,462,520.
Walts, John M.; and Schenck, Leslie M.,3,423,473.
Schenck, Remsen T. E.: *See—*
Buzas, August J.; and Schenck, Remsen T. E.,3,446,828.
Schenck, Robert C., Jr., to Duriron Company, Inc., The. Fully lined valve. 3,438,388, 4-15-69, Cl. 137-375.
Schenck, Robert C., Jr.; and Ferris, Herbert C., to Duriron Company, Inc., The. Coated hollow plug valve. 3,459,213, 8-5-69, Cl. 137-340.
Schenectady Chemicals, Inc.: *See—*
Gonzenbach, Carlos T.; and Jordan, Manuel A., 3,463,753.
Jordan, Manuel A.; and Petersen, Kenneth C., 3,437,123.
Jordan, Manuel A.; Meyer, John F.; and Zalewski, Edmund J., 3,480,589.
Laganis, Deno, 3,479,307.
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J., 3,425,866.
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J., 3,426,098.
Muhlberger, Robert A.; and Lamby, Edward J., 3,433,768.
Petersen, Kenneth C., 3,464,956.
Petersen, Kenneth C., 3,478,127.
Schenk, Hanspeter; and Apotheloz, Robert, to Oerlikon-Buhrle Holding Ltd. Star shell. 3,426,683, 2-11-69, Cl. 102-34.1
Schenk, Horst: *See—*
Dietz, Helmut; Kuhrt, Friedrich; Lippmann, Hans-Joachim; and Schenk, Horst,3,438,230.
Lippmann, Hans Joachim; Prolss, Erhard; and Schenk, Horst,3,439,403.
Schenk, Horst, to Siemens Aktiengesellschaft. Method and device for the magnetic forming of metallic workpieces. 3,447,350, 6-3-69, Cl. 72-56.
Schenk, Horst; Gunther, Karl-Georg; and Kulb, Wilhelm, to Siemens Aktiengesellschaft. Method for the precise assembly of apparatus. 3,431,625, 3-11-69, Cl. 29-421.

Schenk, Horst; and Prolss, Erhard, to Siemens Aktiengesellschaft. Method of producing tight fits for ball-bearing holders by magnetic pulse forming. 3,442,013, 5-6-69, Cl. 29-596.
Schenk, Horst; and Wurtz, Friedhelm, to Maschinenfabrik Sack G.m.b.H. Forging machine. 3,478,565, 11-18-69, Cl. 72-399.
Schenk, Raymond L.: *See*—
Lee, Stuart J.; and Schenk, Raymond L.,3,443,365.
Schenke, Werner, to Marquardt, J., & J., Firma. Electrical snap action switch. 3,432,632, 3-11-69, Cl. 200-67.
Schenkelberger, Frank J., to Clark Equipment Company. Vehicle steering apparatus. 3,430,974, 3-4-69, Cl. 280-93.
Schenker, Erhard: *See*—
Jucker, Ernst; Lindenmann, Adolf; and Schenker, Erhard,3,426,017.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; and Gadient, Fulvio,3,432,491.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; Gadient, Fulvio; and Stoll, Andre,3,438,976.
Schenker, Hans-Joachim: *See*—
Frohmuller, Klaus; and Schenker, Hans-Joachim,3,483,408.
Schenker, Karl: *See*—
Beck, Dieter; and Schenker, Karl,3,429,886.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Schenker, Karl; and Urech, Jakob,3,483,197.
Schenker, Karl, to Ciba Corporation. 2,5-dioxo-2:3:4:5-tetrahydro-1:4-methano-1H-3- benzazepines and derivatives thereof. 3,474,463, 10-21-69, Cl. 260-326.5
Urech, Jakob; Fechtig, Bruno; Bosshardt, Rolf; Bickel, Hans; Schenker, Karl; and Wilhelm, Max,3,484,437.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,455,946.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,480,640.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,483,221.
Schenley Industries, Inc.: *See*—
Franklin, Robert J., 3,464,134.
Schenley Industries Incorporated: *See*—
Belokin, Paul, Jr., 3,444,636.
Schenstrom, Frank M., to General Dynamics Corporation. Apparatus for measuring resistance between two nodes including a transparent mask mounted on the face of an oscilloscope. 3,445,765, 5-20-69, Cl. 324-62.
Schenuit Industries, Inc.: *See*—
Molnar, Ernest L., 3,470,933.
Scheper, George W., Jr., to General Electric Company. Fluid discharge casing. 3,452,782, 7-1-69, Cl. 138-37.
Scher, Robert W., to Lubrizol Corporation, The. Process for the preparation of non-newtonian colloidal disperse systems. 3,422,013, 1-14-69, Cl. 252-33.
Scherb, Gustave A. Fluid pressure switch utilizing an axially movable floating disk assembly. 3,432,633, 3-11-69, Cl. 200-83.
Scherb, Walter R., Jr.: *See*—
Badini, John A.; and Scherb, Walter R., Jr.,3,451,118.
Scherbak, Mikhail Venediktovich: *See*—
Gromov, Anatoly Pavlovich; Lukasheva, Evgenia Nikolaevna; Glazkov, Anatoly Vasilievich; Livshits, Abram Lazarevich; Pozhalkin, Vladimir Vasilievich; Polotsky, Vadim Evgenievich; and Scherbak, Mikhail Venediktovich,3,472,993.
Scherbakov, Konstantin Alexandrovich: *See*—
Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Volokhonsky, Lev Avramovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Scherbakov, Konstantin Alexandrovich; and Katsevich, Leonid Savich,3,483,917.
Scherbakova, Nadezhda Vasiljevna: *See*—
Orlova, Tatjana Ivanovna; and Scherbakova, Nadezhda Vasiljevna,3,446,640.
Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Installation for the operation of a diesel engine with exhaust gas turbocharger. 3,423,927, 1-28-69, Cl. 60-13.
Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Liquid cooling system of an internal combustion engine. 3,425,400, 2-4-69, Cl. 123-41.08
Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Apparatus for preventing the inlet valve wear of supercharged internal combustion engines. 3,446,313, 5-27-69, Cl. 184-6.
Scherer, Herbert: *See*—
Brodkorb, Ernst; and Scherer, Herbert,3,481,707.
Scherer, James F. Method of making tire valve inserts. 3,441,997, 5-6-69, Cl. 29-157.1
Scherer, Otto; Korinth, Jurgen; and Rammelt, Peter-Paul, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing trifluoroacetyl chloride. 3,446,721, 5-27-69, Cl. 204-158.
Scherer, Paul A.: *See*—
Scherer, Paul A., 3,425,383.
Scherer, Paul A., to Scherer, Paul A. Hydrofoil method and apparatus. 3,425,383, 2-4-69, Cl. 114-66.5
Scherer, R. P., Corporation: *See*—
Moreland, Stephen T.; and Kazmierczak, Walter S., 3,465,749.
Yahner, Gilbert I., 3,476,110.
Scherer R. P., G.m.b.H.: *See*—
Widmann, Arno, 3,467,748.
Scherer, Richard R. Ladder safety support. 3,435,912, 4-1-69, Cl. 182-107.
Scherer, Robert C., to Baldwin, D. H., Company. Piezo guitar bridge pickup. 3,453,920, 7-8-69, Cl. 84-1.16
Scherer, Robert C.: *See*—
Elbrecht, Donald W.; and Scherer, Robert C.,3,454,702.
Scherer, Sidney A.: *See*—
Berger, Victor M.; and Scherer, Sidney A.,3,447,444.
Scherf, Gerhard Wolfgang Helmut; and Henderson, John Frederick, to Polymer Corporation Limited. Production of novel polymers and polymerization process therefor. 3,431,245, 3-4-69, Cl. 260-79.5
Scherf, Gerhard Wolfgang Helmut; and Henderson, John Frederick, to Polymer Corporation Limited. Polymerization process. 3,435,014, 3-25-69, Cl. 260-89.5
Scherff, Werner, to Henkel & Cie, G.m.b.H. Process for the preparation of water-soluble methyl hydroxypropyl ethers of cellulose. 3,453,261, 7-1-69, Cl. 260-231.
Scherhag, Bernhard: *See*—
Hausweiler, Arnold; and Scherhag, Bernhard,3,433,822.
Schneider, Paul; and Scherhag, Bernhard,3,428,666.
Schering A.G.: *See*—
Borner, Peter, 3,484,412.
Boroschewski, Gerhard; and Pieroh, Ernst Albrecht, 3,481,951.
Engelfried, Otto; Lehmann, Hans-Gunter; Neumann, Friedmund; and Wiechert, Rudolf, 3,444,295.
Freund, Heinz-Eberhard; and Arndt, Friedrich, 3,431,289.
Hader, Josef; Neumann, Friedmund; and Wiechert, Rudolf, 3,439,093.
Heymann, Kurt; Woldt, Gunter; and Grundel, Helga, 3,454,416.
Janssen, Rainer; Helm, Dietrich; and Griebsch, Eugen, 3,483,146.
Kieslich, Klaus; Kerb, Ulrich; and Raspe, Gerhard, 3,426,128.
Lukbe, Klaus; Schroder, Eberhard; and Zollner, Georg, 3,423,390.
Neumann, Friedmund; and Wiechert, Rudolf, 3,441,647.
Offermanns, Hubert; and Skaliks, Willi, 3,425,917.
Peissker, Horst; Kutzsche, Armin; and Muftic, Mahmoud, 3,457,262.
Priewe, Hans; Rahtz, Dieter; Hempel, Reinhard; and Richter, Helmer, 3,423,413.
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois, 3,431,263.
Schmidt, Otfried; Wiechert, Rudolf; and Neumann, Friedmund, 3,469,008.
Schmidt, Otfried; Prezewowsky, Klaus; and Wiechert, Rudolf, 3,470,160.
Schneider, Rudolf; and Meiners, Jochen, 3,474,056.
Schulz, Heinz; Arndt, Friedrich; Hoyer, Georg-Alexander; and Rusch, Reinhart, 3,454,591.
Steinhausen, Walter; Jager, Albert; Boroschewski, Gerhard; Peissker, Horst; and Arndt, Horst, 3,484,526.
Werres, Horst; Baumert, Dietrich; and Kotter, Clemens, 3,437,730.
Wiechert, Rudolf; Kerb, Ulrich; and Hocks, Peter, 3,442,917.
Wiechert, Rudolf; and Neumann, Friedmund, 3,466,371.
Wiechert, Rudolf, 3,480,711.
Schering Corporation: *See*—
Bailey, George A., 3,431,208.
Cooper, David J., 3,470,149.
Gardner, John N., 3,467,677.
Graham, John J., 3,461,010.
Hershberg, Emanuel B.; and Wolkoff, Hal N., 3,424,329.
Herzog, Hershel L.; and Afonso, Adriano, 3,451,892.
Herzog, Hershel L.; and Shapiro, Elliot L., 3,455,968.
Herzog, Hershel L.; Gebert, William H.; Murrill, Nathaniel M.; and Groecela, Raymond, 3,463,793.
Herzog, Hershel L.; and Shapiro, Elliot L., 3,475,466.
Neri, Rudolph, 3,423,507.
Rausser, Richard; and Oliveto, Eugene P., 3,461,117.
Reimann, Hans; and Hershberg, Emanuel B., 3,422,123.
Reimann, Hans, 3,437,658.
Reimann, Hans; and Tabachnick, Irving I. A., 3,463,852.
Shapiro, Elliot L.; Collins, Elliott J.; and Finckenor, Lawrence E., 3,422,193.
Shapiro, Elliot L.; and Finckenor, Lawrence E., 3,444,217.
Sherlock, Margaret H., 3,466,284.
Sherlock, Margaret H., 3,468,907.
Sherlock, Margaret H., 3,478,040.
Tomoeda, Munemitsu, 3,438,974.
Topliss, John G., 3,429,874.
Topliss, John G.; and Wohl, Arnold J., 3,462,428.
Villani, Frank J., 3,448,108.
Villani, Frank J., 3,458,524.

Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A., 3,454,696.
Weinstein, Marvin J.; Luedemann, George M.; and Wagman, Gerald H., 3,458,626.
Schermerhorn, Robert S.; and Guerrero, Miguel Carlos, said Guerrero assor. to Clement, Richard B. Occupant-propelled vehicle having a plurality of wheels and weight sections. 3,438,649, 4-15-69, Cl. 280-259.
Scherping, Clarence K.: *See—*
Loomans, Bernard A.; Ross, Thomas I.; Balazer, Richard J.; and Scherping, Clarence K.,3,463,459.
Scherr, George H., to Colab Laboratories, Inc. Diagnostic test material for determination of ovulatory function and method for production of said test material. 3,434,801, 3-25-69, Cl. 23-253.
Scherr, Hermann, to Zinser-Textilmaschinen Gesellschaft mit beschraenkter Haftung. Apparatus for loading bobbins into shipping receptacles. 3,435,586, 4-1-69, Cl. 53-242.
Scherr, Oscar L.: *See—*
Moses, Samuel F.; and Scherr, Oscar L.,3,458,953.
Scherr, Pearl B.: *See—*
Moses, Samuel F.; and Scherr, Oscar L.,3,458,953.
Scherr, Robert E.; McHose, Andre H.; Campbell, Ian P.; and Bryan, Carney J., to Ivanhoe Research Corporation, mesne. Automatic sewing method and apparatus. 3,448,705, 6-10-69, Cl. 112-2.
Scherrer, Igor, to Ebauches S.A. Temperature-stabilised crystal-controlled oscillator. 3,483,485, 12-9-69, Cl. 331-116.
Scherrer, Robert A., to Parke, Davis & Company. Quinolylanthranilic acid compounds and methods for their production. 3,458,519, 7-29-69, Cl. 260-287.
Scherrer, Robert A., to Parke, Davis & Company. 2-Methyl-7-phenylindole-3-acetic acid compounds. 3,476,770, 11-4-69, Cl. 260-326.13
Scherrer, Robert Allan, to Parke, Davis & Company. Substituted sulfonyl benzamides. 3,471,559, 10-7-69, Cl. 260-556.
Scherrer, Robert Allan; and Short, Franklin Willard, to Parke, Davis & Company. Anthranilic acid esters. 3,420,871, 1-7-69, Cl. 260-472.
Schertler, Roman: *See—*
Kraus, Thaddaus; and Schertler, Roman,3,423,513.
Schertzer, John, to Dow Chemical Company, The. Process for removing titanium and vanadium from phosphoric acid. 3,449,074, 6-10-69, Cl. 23-165.
Scherz, James Phillip. Handless pendulum driven clock. 3,464,199, 9-2-69, Cl. 58-2.
Scherzberg, Heinz: *See—*
Hoppe, Hans; and Scherzberg, Heinz,3,423,171.
Hoppe, Hans; Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang,3,440,023.
Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang, to Kali-Forschungsinstitut. Preparation of alkali metal sulfates. 3,445,185, 5-20-69, Cl. 23-121.
Scherzer, Harry S.: *See—*
Engel, Edward F.; and Scherzer, Harry S.,3,430,283.
Scherzer, Otto: *See—*
Heimann, Walter; and Scherzer, Otto,3,448,317.
Schettlinger, Herbert: *See—*
Fehst, Jurgen; Kurten, Wilhelm; and Schettlinger, Herbert,3,451,521.
Scheuba, Norbert; and Schlecker, Georg, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Anti-skid element. 3,464,476, 9-2-69, Cl. 152-210.
Scheuber, Hermann, to Lonza Ltd. Process of purifying ketene. 3,480,676, 11-25-69, Cl. 260-585.5
Scheublein, William A., Jr.; and Fister, Louis P., to Moog Industries, Inc. Ball joint unit for steerable vehicle wheels. 3,429,598, 2-25-69, Cl. 287-87.
Scheublein, William A., Jr.; Fister, Louis; McNeely, James A.; and Talmage, Jay W., to Moog Industries, Inc. Coil spring winding machine. 3,470,721, 10-7-69, Cl. 72-144.
Scheuer, Bernard I. Dental methods and devices. 3,460,254, 8-12-69, Cl. 32-14.
Scheuer, Nicholas G.: *See—*
Blendermann, Louis; and Scheuer, Nicholas G.,3,469,699.
Scheuerer, Guenter; Zeidler, Adolf; Dickhaeuser, Heiner; and Adolphi, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Thiophosphoric acid esters. 3,423,487, 1-21-69, Cl. 260-946.
Scheuerer, Gunter: *See—*
Dickhaeuser, Heiner; Scheuerer, Gunter; Adolphi, Heinrich; and Steinbrunn, Gustav,3,442,984.
Scheuerer, Walter J., to Singer Company, The. Tapered roller bearing assemblies for electric motors. 3,435,930, 4-1-69, Cl. 192-18.
Scheuerman, Frank J.: *See—*
Earling, Roy; and Scheuerman, Frank J.,3,431,695.
Scheuerman, Richard J.: *See—*
Bastien, Roy C.; and Scheuerman, Richard J.,3,463,574.
Scheuerman, Richard L.: *See—*
Oja, Carl W.; and Scheuerman, Richard L.,3,422,929.
Scheuerman, Ronald F.; Scott, Paul R.; and Fraser, John P., to Shell Oil Company. Transportation of sulfur in piperlines as a sulfur-aqueous polysulfide slurry. 3,438,680, 4-15-69, Cl. 302-14.
Scheuerman, Ronald F.: *See—*
Scott, Paul R.; and Scheuerman, Ronald F.,3,474,596.
Scott, Paul R.; and Scheuerman, Ronald F.,3,480,024.
Scheuerman, Vernal Hardy: *See—*
Mead, Edward Jairus; and Scheuerman, Vernal Hardy,3,454,422.
Scheuermann, Hans: *See—*
Fischer, Max; Scheuermann, Hans; Klaassen, Hermann; and Lenz, Johann,3,482,353.
Scheuermann, Lucy. Clothes checking bag hanger. 3,474,942, 10-28-69, Cl. 223-85.
Scheufele, William F.: *See—*
Mitchell, Charles T., Jr.; and Scheufele, William F.,3,455,726.
Mitchell, Charles T., Jr.; and Scheufele, William F.,3,458,346.
Scheufler, Roland, to Schmidt, Karl, GmbH. Bearing and housing installation. 3,449,032, 6-10-69, Cl. 308-237.
Scheufler, Roland: *See—*
Henle, Rudolf; and Scheufler, Roland,3,430,322.
Scheuneman, James H., to Sperry Rand Corporation. Nondestructive read memory selection system. 3,423,739, 1-21-69, Cl. 340-174.
Scheurer, Hans: *See—*
Kern, Rudolf; Groppenbacher, Gregor; and Scheurer, Hans,3,441,525.
Scheuring, George R.: *See—*
Zorn, Peter A.; and Scheuring, George R.,3,465,913.
Scheurlen, Hans: *See—*
Wagner, Kuno; Scheurlen, Hans; and Kritzler, Helmuth,3,448,169.
Schexnayder, Lawrence F., to Caterpillar Tractor Company. Hydraulic control circuit for push-pull coupling of tandem machines. 3,469,861, 9-30-69, Cl. 280-479.
Schiavi, Vincent. Clamp for mounting a road scraper blade. 3,454,107, 7-8-69, Cl. 172-719.
Schibbye, Lauritz Benedictus, to Svenska Rotor Maskiner Aktiebolag. Screw rotor machine and rotors therefor. 3,423,017, 1-21-69, Cl. 230-143.
Schibbye, Lauritz Benedictus, to Svenska Rotor Maskiner Aktiebolag. Screw rotor machine for an elastic working medium. 3,432,089, 3-11-69, Cl. 230-138.
Schibbye, Lauritz Benedictus, to Svenska Rotor Maskiner Aktiebolag. Screw rotor machine. 3,462,072, 8-19-69, Cl. 230-143.
Schibbye, Lauritz Benedictus, to Svenska Rotor Maskiner Aktiebolag. Two-stage compressor. 3,467,300, 9-16-69, Cl. 230-143.
Schibig, Arthur. Protective sheath for insulating pipe covering. 3,425,456, 2-4-69, Cl. 138-162.
Schick, Clifford L. Core sample retrieving apparatus. 3,447,615, 6-3-69, Cl. 175-17.
Schick Electric Inc.: *See—*
Shortlidge, Donald L.; and Christensen, James, 3,421,217.
Shortlidge, Donald L., 3,469,138.
Schick, George E.: *See—*
Pinter, Henry J., 3,484,210.
Schick, Harold P.: *See—*
Butler, Eugene B.; Cardis, Donald R.; and Schick, Harold P.,3,446,686.
Schick, Henry W., to Gilbert Manufacturing Company, Inc. Apparatus for orienting articles. 3,478,860, 11-18-69, Cl. 198-33.
Schick, Henry: *See—*
Peterson, John W.; and Schick, Henry,3,444,607.
Schick, Josef H., to Siemag Siegener Maschinenbau GmbH. Depositing zinc coatings. 3,470,074, 9-30-69, Cl. 204-55.
Schick, Josef, to Siemag Siegener Maschinenbau G.m.b.H. Method of increasing the adhesion of metal to a subsurface. 3,467,540, 9-16-69, Cl. 117-47.
Schick, Jules, to Goro, Societe Anonyme. Stapling apparatus. 3,458,099, 7-29-69, Cl. 227-111.
Schick, Mary Margaret, to Du Pont de Nemours, E. I., and Company. Laminated fibrous batt. 3,461,026, 8-12-69, Cl. 161-154.
Schick X-Ray Co., Inc.: *See—*
Farmer, Robert B., 3,448,979.
Schicke, Hans Gerd, deceased (by Schicke, Emil Schicke, Helene, heirs); and Hamman, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. O-Pyrazolo-(1,5-A)-pyrimidyl-phosphorus acid esters. 3,478,029, 11-11-69, Cl. 260-256.5
Schicke, Peter: *See—*
Linden, Gerbert; Schicke, Peter; and Korner, Hermann,3,462,258.
Schickle, Gerhard: *See—*
Krank, Wolfgang; and Schickle, Gerhard,3,444,487.
Schicklein, Burghard K., to Eastern Seaboard Plastics, Inc. Gaseous fuel candle. 3,441,357, 4-29-69, Cl. 431-125.
Schidlo, Wolfram: *See—*
Homuth, Horst; Feess, Erich; and Schidlo, Wolfram,3,442,601.
Schiebeler, Werner, to International Standard Electric Corporation. Electronic teleprinter transmitting and receiving system. 3,437,744, 4-8-69, Cl. 178-2.

Schiedeck, Werner: *See—*
Theermann, Hans; Kotyza, Heinrich; and Schiedeck, Werner,3,472,555.
Schief, Alfred: *See—*
Ziehm, Gunter; Triebold, Karl-Friedrich; Schief, Alfred; and Leisterer, Reinhard W.,3,464,056.
Schiefelbein, Gary F.: *See—*
Schulz, Wallace W.; Schiefelbein, Gary F.; and Bruns, Lester E.,3,463,739.
Schiefer, Joachim; and Dohr, Manfred, to Henkel & Cie. G.m.b.H. Bleaching detergents and washing adjuvants. 3,441,507, 4-29-69, Cl. 252-95.
Schiefer, Joachim; and Dohr, Manfred, to Henkel & Cie GmbH. Bleaching detergents and washing adjuvants. 3,459,665, 8-5-69, Cl. 252-95.
Schiel, Christian, to Voith, J. M., GmbH. Press roll with tensioned diagonal fabric jacket. 3,452,414, 7-1-69, Cl. 29-119.
Schiel, Christian; and Bischoff, Gunther, to Voith, J. M., G.m.b.H., and F. Oberdorfer K.G. Fabric sleeve and method of making. 3,478,991, 11-18-69, Cl. 245-10.
Schiele, August: *See—*
Kirsch, Karl; Uhl, Siegfried; and Schiele, August,3,434,382.
Schierbeek, Berend B., to Maatschappij Van Berkel's Patent N.V. Optical weighing apparatus. 3,461,986, 8-19-69, Cl. 177-178.
Schierholt, Hans, to Deutsche Edelstahlwerke Aktiengesellschaft, and Allgemeine Elektricitats-Gesellschaft. Spark-eroding apparatus. 3,454,829, 7-8-69, Cl. 315-175.
Schieser, Warren J., to Corrugated Container Company, The. Machine for inserting packages into handling cases. 3,421,283, 1-14-69, Cl. 53-55.
Schiess Aktiengesellschaft: *See—*
Wagner, Hans O., 3,469,474.
Schiff & Stern Gesellschaft m.b.H.: *See—*
Stocklocker, Heinrich, 3,437,094.
Schiff, Albin G.: *See—*
Soleymani, Sion; and Schiff, Albin G.,3,474,481.
Schiff, Daniel: *See—*
Cawley, John H.; and Schiff, Daniel,3,441,901.
Schiff, Peter: *See—*
Turner, Carl R.; and Schiff, Peter,3,462,643.
Schiffer, Clifford E.: *See—*
Schwedler, Donald J.; and Schiffer, Clifford E.; d.b.a. Calusa Associates,3,436,350.
Schiffer, Gunter, to Kleinewefers, Joh., Sohne Maschinenfabrik. Device for laterally and longitudinally stretching web material. 3,421,189, 1-14-69, Cl. 26-54.
Schiffer, Gunter, to Kleinewefers, Joh. Sohne Maschinenfabrik. High pressure-tight passage means for materials, textiles, and the like in the form of wide webs or in the form of strands. 3,460,359, 8-12-69, Cl. 68-5.
Schiffer, Gunter; and Lopata, Karl-Peter, to Kleinewefers, Joh., Sohne Maschinenfabrik. Pressure control, especially in connection with the treatment of textiles. 3,421,345, 1-14-69, Cl. 68-5.
Schiffer, Gunther; and Ruhm, Hans-Georg, to Kleinewefers, Joh., Sohne Maschinenfabrik. Device for continuous bleaching. 3,465,551, 9-9-69, Cl. 68-22.
Schiffer, Henry C., to Miller Company, The. Lighting fixture having means for ventilation. 3,465,141, 9-2-69, Cl. 240-47.
Schiffer, Walter. Temperature controlled friction clutch. 3,477,554, 11-11-69, Cl. 192-81.
Schiffers, Josef; and Benz, Willi, to Schloemann Aktiengesellschaft. Means for securing a saw blade to a saw shaft. 3,483,902, 12-16-69, Cl. 143-155.
Schiffner, Leland. Folding camper step. 3,463,509, 8-26-69, Cl. 280-166.
Schilb, William A., to Motorola, Inc. Load isolation network which protects transmitter if antenna is disconnected. 3,424,983, 1-28-69, Cl. 325-150.
Schilb, William A.; and Alexander, Norman P., to Motorola, Inc. Transistor protection circuit. 3,449,680, 6-10-69, Cl. 330-11.
Schilberg, Robert A., to Smith, A. O., Corporation. Laminated dynamic vibration absorber for motor vehicle drive system. 3,447,638, 6-3-69, Cl. 188-1.
Schild, A., S.A.: *See—*
Ringger, Emil, 3,442,074.
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert, to Veb Webstuhlbau Grossenhain. Gripping shuttle loom. 3,459,238, 8-5-69, Cl. 139-122.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert, to VEB Webstuhlbau Grossenhain. Gripping shuttle loom. 3,464,453, 9-2-69, Cl. 139-125.
Schilder, Meyer: *See—*
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer,3,426,329.
Marx, Hans B.; Moll, Edward W.; Nutting, Bruce W.; and Schilder, Meyer,3,426,330.
Schildgen, Robert M.; and Young, John S., to Automatic Electric Laboratories, Inc. Time division signaling arrangement. 3,440,355, 4-22-69, Cl. 179-27.
Schildkroet AG vorm Rheinische Gummi- und Celluloidfabrik: *See—*
Rabe, Erich, 3,452,991.
Schile, Richard D., to United Aircraft Corporation. Process for making filamentary materials. 3,461,943, 8-19-69, Cl. 164-89.
Schillebeeckx, Konrad C., to Wanskuck Company. Cable making machine. 3,425,203, 2-4-69, Cl. 57-58.36
Schiller, Gerald; and Hilgendorf, Joachim, to Kienzle Apparate GmbH. Key switch assembly. 3,448,417, 6-3-69, Cl. 335-159.
Schiller, Michael S., to Sequential Information Systems, Inc. System for controlling motor speed and position. 3,462,663, 8-19-69, Cl. 318-18.
Schiller, Siegfried; Forster, Harry; and Lenk, Peter, to Veb-Lokomotivbau-Elektrotechnische Werke Hans Beimler. Lanthanum hexaboride cathode system for an electron beam generator. 3,440,475, 4-22-69, Cl. 313-337.
Schiller, Siegfried; Lenk, Peter; and Forster, Harry, to Veb Lokomotivbau-Elektrotechnische Werke Hans Beimler. Cyclically moving electron beam for uniform vapor deposited coating. 3,432,335, 3-11-69, Cl. 117-106.
Schilling, Arden L. Split core direct current measuring device. 3,465,250, 9-2-69, Cl. 324-127.
Schilling, Carl O., to Eagle-Picher Industries, Inc. Storage battery including paste of lead oxide and lignin lignin. 3,446,670, 5-27-69, Cl. 136-26.
Schilling, Harald, to International Standard Electric Corporation. Wide range constant current gain amplifier. 3,471,795, 10-7-69, Cl. 330-24.
Schilling, Jurgen. Device for temporarily interrupting stitch formation in automatically controlled embroidering machines. 3,481,291, 12-2-69, Cl. 112-98.
Schilling, Nicholas J. Self-inking hand stamp. 3,464,352, 9-2-69, Cl. 101-327.
Schilling, Robert D.: *See—*
Culp, Gordon L.; Schilling, Robert D.; Hansen, Sigurd P.; and Botsford, Charles W.,3,425,936.
Schilling, Ronald B.; and Wine, Charles M., to RCA Corporation. Flexode crosspoint adaptive matrix circuits. 3,465,292, 9-2-69, Cl. 340-166.
Schilling, William H. Automatic flow-responsive valve. 3,441,052, 4-29-69, Cl. 137-517.
Schillinger, Joseph F. Partitioning member. 3,478,947, 11-18-69, Cl. 229-15.
Schillinger, Walter E., to International Business Machines Corporation. Continuous averaging system. 3,478,328, 11-11-69, Cl. 340-172.5
Schiltz, Lee R.; and Rogers, Russell H., to Swift & Company. Method for treating washable goods. 3,424,546, 1-28-69, Cl. 8-137.
Schilz, Raphael D.: *See—*
Hodder, Jack F.; and Schilz, Raphael D.,3,447,739.
Schimelpfenig, Clarence W., Jr.; and Subramanian, Pallatheri M., to Du Pont de Nemours, E. I., and Company. Moistenable, hot melt adhesives comprising random vinyl alcohol/vinyl ester copolymers. 3,444,125, 5-13-69, Cl. 260-33.4
Schiminski, Herbert: *See—*
Martens, Gerhard; Bauer, Karl; Turk, Herbert; and Schiminski, Herbert,3,487,187.
Schimitschek, Erhard J.; Nehrich, Richard B., Jr.; and Trias, John A., to United States of America, Navy. Substitute europium chelates for liquid laser operation. 3,450,641, 6-17-69, Cl. 252-301.2
Schimitschek, Erhard J.; and Schumacher, Edward R. Liquid laser cell. 3,451,007, 6-17-69, Cl. 331-94.5
Schimmel, Donald G., to Sylvania Electric Products Inc. Self-supporting resistance film. 3,439,306, 4-15-69, Cl. 338-212.
Schimmel, Donald G., to Sylvania Electric Products, Inc. Resistor fabrication. 3,486,222, 12-30-69, Cl. 29-620.
Schimmel, Morry L.: *See—*
Drexelius, Victor W.; Lake, Edgar R.; and Schimmel, Morry L.,3,486,410.
Hosman, James Harvey, Jr.; and Schimmel, Morry Leon,3,484,846.
Schimmel, Vernon R., to Symons Mfg. Company. Adjustable edge connection for concrete wall form panels. 3,429,547, 2-25-69, Cl. 249-192.
Schimmel, Vernon R., to Symons Mfg. Company. Pretensioned knockdown concrete wall form panel. 3,486,729, 12-30-69, Cl. 249-189.
Schimmelpfennig, Peter, to Licentia Patent-Verwaltungs-G.m.b.H. Apparatus for defocusing a searchlight. 3,453,481, 7-1-69, Cl. 314-20.
Schimmelpfennig, Peter, to Licentia Patent-Verwaltungs-G.m.b.H. Searchlight assembly for weapons carriers, particularly for armored vehicles. 3,468,218, 9-23-69, Cl. 89-36.
Schindall, Joel E., to Singer Company, The. Bandpass filter having variable bandwidth but constant midband response and variable loading circuit for the same. 3,430,163, 2-25-69, Cl. 333-72.
Schindelholz, Adolphe, to Ried, Marcel Boschung, Firm. Snowfall reporting device. 3,456,505, 7-22-69, Cl. 73-170.

Schindelka, John C. Stone picking machines. 3,443,644, 5-13-69, Cl. 171-63.
Schindelmann, Frika: *See—*
Volker, Theodore; and Schindelmann, Frika,3,487,101.
Schindlbauer, Helmut: *See—*
Zorn, Hermann; Schindlbauer, Helmut; and Hagen, Helmut,3,423,468.
Schindler, Albert I.; and Williams, Conrad M., to United States of America, Navy. Method of orienting the easy axis of thin ferromagnetic films. 3,472,708, 10-14-69, Cl. 148-108.
Schindler, Donald G.: *See—*
Henry, Edwin B., Jr.; Schindler, Donald G.; and Zemberry, William L.,3,430,485.
Schindler, Hans R.: *See—*
Korzekwa, Sam M.; and Schindler, Hans R.,3,428,828.
Schindler, Hans, to Braun Aktiengesellschaft. Magnetic igniter for lighters. 3,458,765, 7-29-69, Cl. 317-81.
Schindler, Heinrich: *See—*
Michel, Alfred; and Schindler, Heinrich,3,461,033.
Schindler, Henry C., to RCA Corporation. Metallic laminated superconductors. 3,458,293, 7-29-69, Cl. 29-194.
Schindler, John. Adjustable saw devices. 3,481,374, 12-2-69, Cl. 143-6.
Schindler, Walter: *See—*
Gansser, Charles; and Schindler, Walter,3,444,159.
Schindler, Walter; and Blattner, Hans, to Geigy Chemical Corporation. Azepine derivatives. 3,458,499, 7-29-69, Cl. 260-239.
Schindler, Walter; Blattner, Hans; and Zust, Armin, to Geigy Chemical Corporation. 11-Aminoalkyl-5,11-dihydro-10H-dibenao[a0888888888888 cyclohepten-10-one. 3,464,991, 9-2-69, Cl. 260-268.
Schindler, Walter; and Dietrich, Henri, to Geigy Chemical Corporation. 3-Chloro-5-(α-dimethylaminopropyl)-iminodibenzyl and its acid addition salts. 3,467,650, 9-16-69, Cl. 260-239.
Schindler, Werner: *See—*
Planitzer, Erich; Maus, Eicke; Multerer, Albert; Schober, Erwin; and Schindler, Werner,3,446,112.
Schindler, Werner. Positive-displacement pump. 3,443,522, 5-13-69, Cl. 103-126.
Schindler, William. Low bed trailer. 3,448,878, 6-10-69, Cl. 214-512.
Schink, Norbert: *See—*
Reuschel, Konrad; and Schink, Norbert,3,446,653.
Schink, William N., to Indak Manufacturing Corporation. Method of making electrical switches. 3,442,004, 5-6-69, Cl. 29-622.
Schink, William N., to Indak Manufacturing Corporation. Multiposition rotary switch with radially inner and outer drive elements and replaceable moveable contact carriages. 3,467,793, 9-16-69, Cl. 200-11.
Schinke, Horst, to Hudig Kommanditgesellschaft. Drainage equipment. 3,446,398, 5-27-69, Cl. 222-63.
Schinner, Thomas J.; and Zimmer, Ernest B., to Cincinnati Time Recorder Company, The. Card reading device having selectively operable platen. 3,463,890, 8-26-69, Cl. 200-46.
Schinzel, Erich: *See—*
Dietz, Erich; Fuchs, Otto; Schinzel, Erich; and Wagner, Dieter,3,420,843.
Schinzel, Erich; and Lebkucher, Karl Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Triazinylstilbene reactive optical brighteners. 3,420,821, 1-7-69, Cl. 260–240
Schinzel, Erich; Pintschovius, Ulrich; and Lebkucher, Karl Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzoxazole optical brighteners. 3,427,307, 2-11-69, Cl. 260-240.
Schipanski, Emil R. Autoclave. 3,431,065, 3-4-69, Cl. 21-96.
Schipke, Robert N., to General Motors Corporation. Apparatus for cleaning ball bearings. 3,482,584, 12-9-69, Cl. 134-116.
Schipper, Alwin. Means providing a sliding surface. 3,465,653, 9-9-69, Cl. 94-7.
Schipper, Edgar; Oroshnik, William; and Cinnamon, Jerome M., to Shulton, Inc. Process to convert activated methylene groups to the corresponding carbonyl groups. 3,435,064, 3-25-69, Cl. 260-469.
Schippers, Heinz, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Process for the heated drawing and fixation of filaments. 3,471,608, 10-7-69, Cl. 264-290.
Schippers, Heinz; Lohest, Hans; and de Ruig, Jans R., to Barmer Maschinenfabrik AG. Control and switching arrangement for mechanically or hydraulically driven traversing mechanisms in spinning, winding and especially ring twisting machines. 3,445,073, 5-20-69, Cl. 242-26.3
Schippers, Heinz; and Ostertag, Karl, to Glanzstoff AG. Method and apparatus for spinning organic high polymers. 3,466,357, 9-9-69, Cl. 214-176.
Schippers, Leslie M. Apparatus for coding film and retrieval of the same. 3,452,344, 6-24-69, Cl. 340-174.1
Schira, John J.; Sadler, William R.; and Dragon, Thomas J., to Burroughs Corporation. Synchronizing system. 3,435,424, 3-25-69, Cl. 340-172.5
Schirmer, Dieter: *See—*
Huter, Ludwig; Losenske, Christa; and Schirmer, Dieter,3,427,130.
Schirmer, Henry G., to Grace, W. R., & Co. Apparatus for perforating film. 3,435,190, 3-25-69, Cl. 219-384.
Schirmer, Henry G., to Grace, W. R., & Co. Irradiated isoluble amylose starch. 3,468,777, 9-23-69, Cl. 204-160.1
Schirmer, Henry G., to Grace, W. R., & Co. Perforating film by electrical discharge. 3,471,597, 10-7-69, Cl. 264-25.
Schirmer, Henry G.: *See—*
Patterson, William A.; Schirmer, Henry G.; and Weissman, Stanley N.,3,432,447.
Schirrmacher, Hermann: *See—*
Ibing, Guenther; Schirrmacher, Hermann; Vollmer, Herbert; Boemelburg, Josef; and Schwall, Fritz,3,434,807.
Schirtzinger, Joseph F., to Air Logistics Corporation. Apparatus for loading and unloading offshore vessels. 3,466,680, 9-16-69, Cl. 9-8.
Schischkow, Konstantin F. Self-feeding pencil. 3,424,535, 1-28-69, Cl. 401-53.
Schisla, Robert M.: *See—*
Hammann, William C.; and Schisla, Robert M.,3,440,894.
Hammann, William C.; and Schisla, Robert M.,3,471,574.
Schjeldahl, G. T., Company: *See—*
Andersen, John W., 3,446,661.
Blais, Maurice E., 3,465,634.
Bratton, Francis H.; Fick, Herbert J.; and Klimisch, Kenneth W., 3,449,193.
Bratton, Francis H.; and Fick, Herbert J., 3,452,133.
Buck, Norman R., 3,441,463.
Buck, Norman R., 3,458,382.
Fick, Herbert J.; and Johnson, Roger W., 3,437,522.
Gammel, Walter A., Sr.; and Strobel, John S., 3,437,977.
Marcell, Gerald V., 3,481,802.
Slater, Richard J.; and Bratton, Francis H., 3,452,355.
Schjeldahl, G. T., Company, The: *See—*
Samour, Carlos M., 3,475,194.
Schjeldahl, Gilmore T.; Carlsen, Harry R.; and Eumurian, Charles, to Giltech Corporation. Machine for molding plastic containers. 3,480,993, 12-2-69, Cl. 18-5.
Schjerven, Ragna Host: *See—*
Koenig, Helge S.; Schjerven, Ragna Host; and Dehler, Friedrich,3,429,638.
Schlabach, Leland A., to Westinghouse Electric Corporation. Tachometerless induction motor speed control. 3,441,823, 4-29-69, Cl. 318-221.
Schlabach, Leland A., to Westinghouse Electric Corporation. Trapped energy recovery circuit. 3,460,021, 8-5-69, Cl. 321-5.
Schlabach, Leland A.; and Gyugyi, Laszlo, to Westinghouse Electric Corporation. Method for operating inverters. 3,423,662, 1-21-69, Cl. 321-5.
Schlabach, Leland A.; and Gyugyi, Laszlo, to Westinghouse Electric Corporation. Closed loop motor control system. 3,444,451, 5-13-69, Cl. 318-227.
Schlabach, Leland A.; and Rosa, John, to Westinghouse Electric Corporation. Inverter apparatus. 3,469,169, 9-23-69, Cl. 321-5.
Schlabs, Charles V. Universal hitch for towing tilling implements. 3,476,191, 11-4-69, Cl. 172-162.
Schladale, Robert F., to Allied Carbon and Ribbon Manufacturing Corporation. Ribbon reel carrier and dispenser. 3,482,684, 12-9-69, Cl. 206-59.
Schladitz, Hermann J. High strength metal filaments and the process and apparatus for forming the same. 3,441,408, 4-29-69, Cl. 75-208.
Schlaefer, Francis W.: *See—*
Nemec, Joseph W.; and Schlaefer, Francis W.,3,441,613.
Schlaefli, Hans. Revolving pay plate for banks and ticket offices. 3,474,745, 10-28-69, Cl. 109-19.
Schlaeppi, Hans P., to International Business Machines Corporation. Instruction buffering system. 3,466,613, 9-9-69, Cl. 340-172.5
Schlaeppi, Hans P., to International Business Machines Corporation. Control mechanism for a multiprocessor computing system. 3,480,914, 11-25-69, Cl. 340-172.5
Schlafer, Ludwig: *See—*
Meininger, Fritz; and Schlafer, Ludwig,3,468,873.
Schlafly, Hubert J., Jr., to Teleprompter Corporation. Cable conduit installation. 3,473,339, 10-21-69, Cl. 61-72.1
Schlage, Ernest L., to Schlage Lock Company. Pick resistant lock unit. 3,478,549, 11-18-69, Cl. 70-421.
Schlage, Ernest L., to Schlage Lock Company. Lock mounting. 3,479,074, 11-18-69, Cl. 292-1.
Schlage, Ernest L.; and Schmidt, Lukas-Valentin, to Schlage Lock Company. Settable strike mechanism. 3,454,295, 7-8-69, Cl. 292-341.18
Schlage Lock Company: *See—*
De Vines, Hollis L., 3,438,051.
Lasier, Thomas R.; and Pollack, Roy L., 3,426,382.
Lasier, Thomas R.; and Pollack, Roy L., 3,426,383.
Neary, Ralph E., 3,434,316.
Schlage, Ernest L.; and Schmidt, Lukas-Valentin, 3,454,295.

Schlage, Ernest L., 3,478,549.
Schlage, Ernest L., 3,479,074.
Schlanger, Gabriel G.: *See—*
Mauzey, Peter T.; Schlanger, Gabriel G.; Votaw, Clarence J.; and Zydney, Herbert M.,3,427,590.
Schlansker, Kermit C.: *See—*
Starzec, Francis J.; Ooms, Jan; and Schlansker, Kermit C.,3,448,383.
Schlapfer, Hans: *See—*
Hausermann, Heinrich; Schlapfer, Hans; and Tscharner, Christopher Johannes,3,472,842.
Schlapfer, Reinhard: *See—*
Guex, Waldemar; Schlapfer, Reinhard; and Spiegelberg, Hans,3,467,505.
Schlatter, James M.: *See—*
Mazur, Robert H.; Goldkamp, Arthur H.; and Schlatter, James M.,3,475,403.
Schlatzer, Robert K., to Goodrich, B. F., Company, The. Process for polymerizing acrylic acid esters. 3,476,722, 11-4-69, Cl. 260-86.1
Schlaudt, Charles M.: *See—*
Overcashier, Robert H.; Shain, Stephen A.; and Schlaudt, Charles M.,3,443,920.
Schlawin, Ralph G., to General Electric Company. Internal bus connection for high current Y-connected transformers and the like. 3,436,703, 4-1-69, Cl. 336-12.
Schlecht, Karl. Variable diameter stator for screw pump. 3,435,772, 4-1-69, Cl. 103-117.
Schlecht, Ralph O. Prefabricated structure and a joint assembly therefor. 3,436,881, 4-8-69, Cl. 52-90.
Schlecker, Georg: *See—*
Scheuba, Norbert; and Schlecker, Georg,3,464,476.
Schleede, Dietrich: *See—*
Hartmann, Werner; Schleede, Dietrich; and Schulde, Felix,3,431,203.
Schulde, Felix; and Schleede, Dietrich,3,462,389.
Schleer, Hilmar. Buckle for safety belts. 3,454,995, 7-15-69, Cl. 24-230.
Schlegel, Franz: *See—*
Rosner, Ortwin; Schlegel, Franz; and Sebestyen, Nikolaus,3,429,997.
Schlegel, Franz, to Optische Werke G. Rodenstock. Modified petzval lens assembly. 3,428,386, 2-18-69, Cl. 350-2.
Schlegel, Franz, to Optische Werke G. Rodenstock. Telescopic objective for infrared radiation. 3,433,551, 3-18-69, Cl. 350-2.
Schlegel, Franz, to Optische Werke G. Rodenstock. Modified triplet lens system. 3,445,154, 5-20-69, Cl. 350-176.
Schlegel, Franz, to Optische Werke G. Rodenstock. Wide angle objective. 3,447,861, 6-3-69, Cl. 350-220.
Schlegel, Franz, to Optische Werke G. Rodenstock. High aperture objection lens system for television cameras. 3,454,326, 7-8-69, Cl. 350-176.
Schlegel, Franz, to Optische Werke G. Rodenstock. Modified symmetrical wide-angle objective. 3,482,902, 12-9-69, Cl. 350-209.
Schlegel, Hans; and Nowotny, Beate, to Wurttembergische Metallwarenfabrik. Process of bonding knife blades within handles. 3,423,269, 1-21-69, Cl. 156-293.
Schlegel Manufacturing Company, The: *See—*
Clapham, Fred Robinson, 3,430,387.
Engel, Edward F.; and Scherzer, Harry S., 3,430,283.
Kondolf, Karl Q., 3,420,002.
Schlegel, Norman C., Jr.; and Michels, Alan P., 3,467,423.
Schlegel, Norman C., Jr.; and Michels, Alan P., to Schlegel Manufacturing Company, The. Garnishing bead miter joint and method of making same. 3,467,423, 9-16-69, Cl. 287-189.36
Schlegel, Wolfgang; Schwieter, Ulrich; and Tamm, Rudolf, to Hoffmann-La Roche Inc. Compositions stabilized with tocopheramine antioxidants. 3,458,637, 7-29-69, Cl. 424-283.
Schlegel, Wolfgang: *See—*
Klaui, Heinrich; Rehm, Walter; and Schlegel, Wolfgang,3,466,362.
Schlegl, Franz: *See—*
Isenhardt, Friedel; and Schlegl, Franz,3,420,370.
Schleich, Fritz; and Scheffels, Wilhelm, to United Aircraft Corporation, mesne. Apparatus for the machining of material by means of a beam of charge carriers. 3,469,065, 9-23-69, Cl. 219-121.
Schleicher, Allen K.: *See—*
Beekes, Hugh A.; Herrmann, Thomas R.; Lipp, Melbourne A.; Olson, Henning H.; and Schleicher, Allen K.,3,466,845.
Schleiden, Albert Lester, to Miller Printing Machinery Co. Sheet feeder assembly. 3,482,833, 12-9-69, Cl. 271-26.
Schleif, Ferber R., to United States of America, Interior. Apparatus for stabilizing speed control action on hydraulic turbines. 3,464,432, 9-2-69, Cl. 137-26.
Schleif, Ferber R.; and Martin, Glenn E., to United States of America, Interior. Control of rotating exciters for power system damping. 3,465,235, 9-2-69, Cl. 322-24.
Schleifer, Otto: *See—*
Jones, Sheldon; and Schleifer, Otto,3,476,921.
Schleifstein, Harvey G.: *See—*
Lennon, Donald Joseph John; and Schleifstein, Harvey G.,3,471,387.
Schleimer, Bernahard, to Chemische Werke Huls Aktiengesellschaft. Method of separating liquid polymers of low ash content from ziegler polymerization mixtures. 3,448,160, 6-3-69, Cl. 260-669.
Schleimer, Bernhard, to Chemische Werke Huls Aktiengesellschaft. Process fo the preparation of liquid, low-molecular weight unsaturated polymers. 3,428,699, 2-18-69, Cl. 260-669.
Schleimer, Bernhard; and Dittmann, Walter, to Chemische Werke Huls Aktiengesellschaft. Production of modified homopolymers and copolymers of conjugated dienes containing epoxide groups. 3,455,965, 7-15-69, Cl. 260-348.
Schleimer, Bernhard; and Weber, Heinrich, to Chemische Werke Huls Aktiengesellschaft. Process for the catalytic copolymerization of ethylene with χ-olefines and diolefines. 3,424,734, 1-28-69, Cl. 260-85.3
Schleimer, Bernhard: *See—*
Gorke, Klaus; Hilpert, Richard; Schleimer, Bernhard; and Dittmann, Walter,3,442,675.
Schlein, Helmar, to North American Rockwell Corporation. Electrochemical analysis system. 3,420,764, 1-7-69, Cl. 204-195.
Schleindl, Frederick A. Method of treating spent pulp liquor by adding gas-evolving metals thereto. 3,451,765, 6-24-69, Cl. 23-48.
Schlemmer, Alfred H., Jr.: *See—*
Webster, Robert C.; and Schlemmer, Alfred H., Jr.,3,485,055.
Schlemmer, Alfred H., to Chemetron Corporation. Cryogenic conveyor freezer. 3,455,120, 7-15-69, Cl. 62-266.
Schlemmer, Wolfgang: *See—*
Wagner, Josef; and Schlemmer, Wolfgang,3,450,691.
Schlemon, George, to Southern Mills, Inc. Garment finisher with sleeve formers. 3,462,051, 8-19-69, Cl. 223-70.
Schlemon, George, to Southern Mills, Inc., The. Sleeve former. 3,482,744, 12-9-69, Cl. 223-63.
Schlemon, George. Method and apparatus for garment pressing. 3,486,255, 12-30-69, Cl. 38-16.
Schlensker, Albert L.: *See—*
Curtis, Russell R.; Schlensker, Albert L.; and Jung, James E.,3,458,948.
Schleppnik, Alfred A., to Monsanto Company. Synthesis of 4-pyrones. 3,474,113, 10-21-69, Cl. 260-345.8
Schleppnik, Alfred A.; and Oftedahl, Marvin L., to Monsanto Company. 4-Pyrones. 3,455,960, 7-15-69, Cl. 260-345.9
Schleppnik, Alfred A.; and Oftedahl, Marvin L., to Monsanto Company. 4-Pyrone synthesis. 3,468,914, 9-23-69, Cl. 260-345.9
Schleppnik, Alfred A.; and Oftedahl, Marvin L., to Monsanto Company. Gamma-pyrone synthesis. 3,476,778, 11-4-69, Cl. 260-345.8
Schlereth, Georg: *See—*
Feldhoff, Heinrich; Becker, Klaus; and Schlereth, Georg,3,476,963.
Schlesiger, Heinz: *See—*
Thomanek, Franz Rudolf; and Schlesiger, Heinz,3,478,685.
Schlesinger, Morton: *See—*
Cohen, Sidney; and Schlesinger, Morton,3,454,423.
Schlesinger, Walter, to White Laboratories, Inc. Antiviral compositions and method of use. 3,466,365, 9-9-69, Cl. 424-78.
Schlessel, Joseph H.: *See—*
Aasen, Torulf F.; Schlessel, Joseph H.; and Waznys, Peter J.,3,459,474.
Schlessel, Joseph H., to Airequipt Inc. Magazineless slide changer. 3,453,044, 7-1-69, Cl. 353-116.
Schlessel, Joseph H., to Airequipt Inc. Enveloped quartz iodine lamp. 3,479,548, 11-18-69, Cl. 313-113.
Schleter, George H.: *See—*
Watts, Melvin P.; and Schleter, George H.,3,434,234.
Schletz, Howard D. Paint mixing apparatus. 3,480,259, 11-25-69, Cl. 259-75.
Schlicher, David W., to Electric Machinery Mfg. Company. Plural input electrical system for measuring alternating-current power. 3,435,340, 3-25-69, Cl. 324-142.
Schlicher, David W.; and Rohner, Thomas G., to Electric Machinery Mfg., Company. Control for synchronous motors utilizing a permanently connected resistor across the field winding. 3,463,987, 8-26-69, Cl. 318-176.
Schlicht, Hans Georg, to Schafer, Georg, Kugelfischer, & Co. Method of increasing the fatigue life of rolling contact elements and the resulting articles. 3,477,884, 11-11-69, Cl. 148-150.
Schlichte, Max: *See—*
Pfleiderer, Friedrich; and Schlichte, Max,3,433,899.
Poschenrieder, Werner F.; and Schlichte, Max,3,471,711.
Schlichte, Max, to Siemens Aktiengesellschaft. Centralized digit receiver system for a plurality of time multiplex communication systems. 3,433,900, 3-18-69, Cl. 179-15.
Schlichte, Max, to Siemens Aktiengesellschaft. Transfer circuit including a parametric amplifier. 3,448,220, 6-3-69, Cl. 179-15.
Schlichte, Max, to Siemens Aktiengesellschaft. Circuit for decreasing characteristic losses of inductors. 3,474,355, 10-21-69, Cl. 333-80.
Schlichtegroll, Ansgar V.: *See—*
Schuler, Wilhelm Alfons; Schlichtegroll, Ansgar V.; Beschke, Helmut; and Klingler, Karl-Heinz,3,485,926.
Schlichter, William L., to Ford Motor Company. Latch mechanism. 3,477,753, 11-11-69, Cl. 292-36.

Schlichting, Hans L.; Barbopoulos, Anthony D.; and Prahl, Walter H., to Hooker Chemical Corporation. Alkylation of phenols. 3,426,358, 24-69, Cl. 260-621.
Schlichting, Hans L.; and Weil, Edward D., to Hooker Chemical Corporation. Vapor phase condensation process and the products thereof. 3,483,263, 12-9-69, Cl. 260-633.
Schlichting, Hans L.: *See—*
Weil, Edward D.; and Schlichting, Hans L.,3,443,012.
Weil, Edward D.; and Schlichting, Hans L.,3,446,859.
Schlichting, John: *See—*
Ammon, Johannes H.; Schlichting, John; and Sprague, Theodore S.,3,437,077.
Schlichting, Kenneth J., to Hughes Aircraft Company. Pulse peak time detecting circuit. 3,422,285, 1-14-69, Cl. 307-235.
Schlick, Horst: *See—*
Werner, Johannes; Golde, Hans; and Schlick, Horst,3,443,307.
Schlicke, Heinz M.: *See—*
Reinke, John F.; Schlicke, Heinz M.; and Blomdahl, Floyd A.,3,435,387.
Schlicting, Hans L.: *See—*
Weil, Edward D.; and Schlicting, Hans L.,3,461,137.
Schlienger, Max P.: *See—*
Lecouturier, Jacques M.; Abele, Janis I.; and Schlienger, Max P.,3,460,178.
Schlienger, Max P. Arc furnace electrode structure. 3,420,939, 1-7-69, Cl. 13-18.
Schlienger, Max P. Reversing switch. 3,426,167, 2-4-69, Cl. 200-82.
Schlienger, Max P. Arc furnace with adjustable electrode suspension. 3,459,868, 8-5-69, Cl. 13-14.
Schlienger, Max P. Arc wheel electrode. 3,461,214, 8-12-69, Cl. 13-18.
Schlientz, Walter J.: *See—*
Bruss, Howard G., Jr.; Schlientz, Walter J.; and Wiens, Bradley E.,3,445,269.
Schlientz, Walter J.; and Wiens, Bradley E., to Owens-Illinois Inc. Method of rendering glass surfaces abrasion- resistant and glass articles produced thereby. 3,438,801, 4-15-69, Cl. 117-88.
Schlies, Adolph P., to United States of America, Atomic Energy Commission. Container for radioactive fuel elements. 3,466,445, 9-9-69, Cl. 250-108.
Schliewe, Robert: *See—*
Blickenderfer, Charles; Brookhyser, Byron B.; and Schliewe, Robert,3,456,774.
Schlinger, Robert Charles: *See—*
Anderson, Jarl H.; Schlinger, Robert Charles; and Hall, John R.,3,456,897.
Schlinger, Robert Charles; and Hall, John Robert, to Bunn, B. H., Company. Brake for twine arm of tying machine. 3,472,157, 10-14-69, Cl. 100-27.
Schlink, Laurence J., to Union Tank Car Company, mesne. Apparatus for discharge and cleanout of pulverulent material from tank cars. 3,424,352, 1-28-69, Cl. 222-195.
Schlisser, Gabor: *See—*
Himes, Don I.; and Schlisser, Gabor,3,482,171.
Schlitt, Helmut W. E., to Bell Aerospace Corporation. Gyroscope. 3,442,143, 5-6-69, Cl. 74-5.6
Schlitz, Jos., Brewing Co.: *See—*
Kozulis, Joseph A.; and Bayne, Peter D., 3,484,244.
Schlitz, Jos., Brewing Company: *See—*
Bayne, Peter D.; and Pahlow, John L., 3,453,114.
Schlobohm, Roland T., to Shell Oil Company. Lubricating compositions containing metal salts of particular condensation products. 3,459,661, 8-5-69, Cl. 252-42.7
Schlobohm, Roland T.; and Glaser, William Jack, to Shell Oil Company. Lubricant compositions. 3,454,496, 7-8-69, Cl. 252-32.7
Schlobohm, Roland T.; and Kelly, Margaret A., to Shell Oil Company. Non-ash forming additive for lubricants. 3,438,898, 4-15-69, Cl. 252-33.
Schloemann Aktiengesellschaft: *See—*
Buschmann, Horst; and Golde, Karl Heinz, 3,446,269.
Claus, Kurt; and Gehring, Eckard, 3,456,329.
Claussen, Paul-Otto, 3,475,943.
Dopper, Otto; Bollig, Georg; Schroder, Egbert; Kuppers, Klaus; and Schulz, Alfred, 3,469,429.
Golde, Karl-Heinz; and Buschmann, Horst, 3,460,725.
Groos, Horst Hans; Linders, Karl; and Seidel, Karl, 3,440,854.
Groos, Horst Hans, 3,465,565.
Groos, Horst Hans; Niggemeier, Friedrich; and Stapel, Heinz, 3,475,941.
Groos, Horst Hans, 3,478,562.
Klein, Ernst-August, 3,440,914.
Lichte, Albert, 3,424,614.
Schiffers, Josef; and Benz, Willi, 3,483,902.
Schroder, Egbert, 3,469,798.
Siegel, Werner, 3,452,398.
Simon, Karl-Heinz, 3,444,769.
Schloemer, Howard H.: *See—*
Carey, George F.; Chlupsa, John E.; Schloemer, Howard H.; and King, Emanuel F.,3,473,360.
Schloff, Morton J.: *See—*
Murov, Isaac I.; Schloff, Morton J.; and Panno, Francis V.,3,480,981.
Schlor, Karl: *See—*
Knapp, Wilhelm; and Schlor, Karl,3,482,659.
Schlor, Karl; and Korner, Konrad, to Teves, Alfred, G.m.b.H. Mechanically and fluid actuatable control device. 3,485,537, 12-23-69, Cl. 303-9.
Schloss, Alden L.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,430,063.
Schloss, Fred, to United States of America, Navy. Miniature mechanical impedance head. 3,425,265, 2-4-69, Cl. 73-67.1
Schlosser, Arthur J.; and Seeley, Robert L. Deep submersible instrumentation package assembly. 3,436,775, 4-8-69, Cl. 9-8.
Schlosser, Francis G., to Pfaff and Kendall. Positioner-aligner structure for anchor bolts. 3,458,184, 7-29-69, Cl. 269-287.
Schlosser, Hellmut: *See—*
Sucher, Josef; Werner, Siegfried; Schlosser, Hellmut; Chojnowski, Manfred; and Hain, Josef,3,479,723.
Schlosser, Paul W. Power transfer system. 3,449,911, 6-17-69, Cl. 60-53.
Schlosser, Ralph G.: *See—*
Redeker, Clark W.; and Schlosser, Ralph G.,3,482,493.
Schlosser, Wolfgang O.: *See—*
Josenhans, James G.; Magalhaes, Frank M.; and Schlosser, Wolfgang O.,3,460,055.
Schlosshauer, Herbert; and Wahl, Horst, to Telefunken A.G. Semiconductor device. 3,434,017, 3-18-69, Cl. 317-234.
Schlothauer, Carl H.; and Galassini, Pete, said Galassini assor. to said Schlothauer. Cornstalk toppers. 3,425,198, 2-4-69, Cl. 56-63.
Schlotter, Max, Dr. Ing.: *See—*
Korpiun, Joachim; and Steeg, Hans Joachim, 3,446,716.
Schlotzhauer, Allan T.: *See—*
Newman, Douglas A.; and Schlotzhauer, Allan T.,3,442,681.
Schlotzhauer, Allan T.; Newman, Douglas A.; and Platz, Warren W., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Ink-releasing sheets and ribbons. 3,467,539, 9-16-69, Cl. 117-36.1
Schlotzhauer, Allant T.: *See—*
Newman, Douglas A.; and Schlotzhauer, Allant T.,3,481,761.
Schlue, Frank W., Jr., to Case, J. I., Company. Universal crop separator. 3,435,953, 4-1-69, Cl. 209-408.
Schlueter, William B. Piston-cylinder vacuum distillation apparatus. 3,420,745, 1-7-69, Cl. 202-160.
Schlumberger Limited (Schlumberger N.V.): *See—*
Parker, Wayland B., 3,431,021.
Parker, Wayland B.; and Barker, Donald W., 3,467,434.
Schlumberger, N., & Cie: *See—*
Aubert, Georges, 3,483,592.
Herubel, Jean Frederic, 3,421,306.
Herubel, Jean Frederic, 3,447,300.
Herubel, Jean Frederic, 3,475,792.
Herubel, Jean-Frederic, 3,479,809.
Herubel, Jean-Frederic, 3,486,199.
Schlumberger Technology Corporation: *See—*
Aitken, John; and Droulers, Jean-Louis, 3,460,624.
Alger, Robert P.; and Dewan, John T., 3,453,433.
Attali, Georges, 3,453,530.
Attali, Georges, 3,462,679.
Baker, John H., Jr., 3,479,579.
Baker, John H., Jr., 3,483,465.
Bell, William T., 3,433,305.
Bell, William T., 3,463,248.
Berryman, William O.; and Stachowiak, John E., 3,448,806.
Berryman, William O., 3,465,821.
Berryman, William O., 3,483,921.
Blagg, Leon, 3,460,618.
Bowers, William E.; and Whitfill, William A., 3,465,447.
Brieger, Emmet F., 3,430,714.
Brock, George W., 3,427,580.
Brock, George W., 3,459,956.
Codrington, Robert S.; and Schuster, Nick A., 3,456,183.
Conrad, Martin B., 3,422,898.
Council, Lemuel L., 3,458,055.
Craig, Gene C., 3,429,375.
Cubberly, Walter E., Jr., 3,474,541.
Current, James H., 3,467,186.
Dewan, John T., 3,462,600.
Doll, Henri Georges; and Dumanoir, Jean L., 3,466,533.
Eaton, Francis M., 3,462,678.
Fields, Roger Q., 3,430,715.
Fields, Roger Q., 3,465,836.
Gollwitzer, Lee H.; and Whitfill, William A., Jr., 3,462,125.
Gollwitzer, Lee H., 3,464,058.
Goodman, Clark, 3,461,291.
Graff, Jerry C., 3,442,327.
Graff, Jerry C., 3,475,040.
Griffin, Archie Z., Jr., 3,482,628.
Hahn, Guerry L., 3,448,373.
Hallenburg, James K., 3,435,629.

Hart, Herbert J.; and Ellis, John N., 3,460,625.
Hurlbert, Loyal L., 3,459,955.
Hurlbert, Loyal L., 3,484,680.
Jensen, Lloyd I., 3,427,653.
Kisling, James W., III, 3,429,590.
Kisling, James W., III, 3,465,820.
Kisling, James W., III, 3,467,182.
Kisling, James W., III, 3,485,298.
Lanmon, C. P., II, 3,430,713.
Lebourg, Maurcie P., 3,448,611.
Lebourg, Maurcie P., 3,448,612.
Lebourg, Maurice P., 3,422,673.
Locke, Stanley; Sherman, Harold; and Wahl, John S., 3,483,376.
McEver, Robert M., Jr., 3,433,301.
McEver, Robert M., Jr., 3,483,922.
McGill, Howard L., 3,429,595.
McGill, Howard L., 3,470,951.
McLoad, Kenneth W., 3,445,805.
McLoad, Kenneth W., 3,445,809.
Miller, Gerald K.; Sauter, William D.; and Warren, John P., 3,457,544.
Nutter, Benjamin P., 3,422,896.
Nutter, Benjamin P., 3,442,328.
Nutter, Benjamin P., 3,446,280.
Pardue, George H., 3,429,383.
Pavlas, Garnet L., 3,433,304.
Samodai, Gyula L.; and Smith, John S., 3,449,755.
Samodai, Gyula L.; and Weeks, Richard F., 3,475,761.
Schuster, Nick A., 3,457,496.
Schuster, Nick A., 3,457,497.
Schuster, Nick A., 3,457,498.
Schuster, Nick A., 3,457,500.
Schwartz, Robert J., 3,434,105.
Schwartz, Robert J., 3,437,834.
Shore, James B., 3,429,384.
Shore, James B., 3,433,302.
Stachowiak, John E., 3,457,994.
Stafford, John A., 3,430,712.
Stafford, John A., 3,460,151.
Staples, Joseph A., III, 3,469,181.
Tanguy, Denis R., 3,457,499.
Toelke, Lester W.; and Walling, Walter W., 3,453,004.
Urbanosky, Harold J., 3,430,181.
Urbanosky, Harold J., 3,430,698.
Urbanosky, Harold J., 3,430,716.
Voetter, Ulrich E., 3,452,592.
Weeks, Richard F.; and Samodai, Gyula L., 3,431,552.
Welz, Wilbur C., 3,452,269.
Whitfill, William A., Jr., 3,439,319.
Whitfill, William A., Jr., 3,465,448.
Young, David E., 3,426,846.
Young, David E., 3,467,183.
Young, David E., 3,485,299.

Schlund, Glenn F.: *See—*
Scroggs, John E.; Webb, John E.; and Schlund, Glenn F.,3,424,106.

Schlussler, Henry: *See—*
Freedman, Harold T.; and Schlussler, Henry,3,431,500.

Schluter, Heinz; and Schonemeyer, Hilmar, to International Standard Electric Corporation. Reed switching network for extending a transmission line through a matrix. 3,423,537, 1-21-69, Cl. 179-18.

Schluter, Klaus, to Siemens Aktiengesellschaft. Circuit arrangement for the measurement of the absolute delay of a quadrupole especially of a transmission line. 3,430,139, 2-25-69, Cl. 324-58.5

Schluter, Klaus, to Siemens Aktiengesellschaft. Apparatus for measuring the phase distortions of a two-terminal network including differentiation and integration means. 3,473,113, 10-14-69, Cl. 324-57.

Schluter, Kurt: *See—*
Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann,3,471,326.

Schluter, Walter, to Wilhelmsburger Maschinenfabrik Hinrichs & Sohn. Apparatus for controlling a tool carriage moving in synchronism with a travelling band material. 3,476,001, 11-4-69, Cl. 83-285.

Schluter, Wilhelm; and Pohler, Heinz, to Eisenwerk Rothe Erde G.m.b.H. Antifriction bearing. 3,482,892, 12-9-69, Cl. 308-227.

Schluttig, Pearl L. Collapsible pet carrier. 3,481,311, 12-2-69, Cl. 119-19.

Schlutz, Charles A., to Ivan Sorvall, Inc. System and method for washing blood and the like. 3,452,924, 7-1-69, Cl. 233-14.

Schmadel, Edmund; and Gotte, Ernst, to Henkel & Cie, G.m.b.H. Low-sudsing detergent compositions. 3,422,020, 1-14-69, Cl. 252-99.

Schmalbach, J. A., AG.: *See—*
Bieder, Gert Gottfried; Ziesak, Herbert Walter; and Kuhn, Kurt Gerhard, 3,460,709.
Illgen, Werner E.; and Stoffregen, Karlheinz, 3,460,231.

Schmalbach-Lubeca-Werke Aktiengesellschaft: *See—*
Hexel, Gunter Karl Friedrich, 3,421,654.

Schmalbruch, T Dankward, to Honeywell Inc. Torque testing instrument. 3,475,952, 11-4-69, Cl. 73-134.

Schmalz, Alfred C.: *See—*
Earle, Ralph H.; Schmalz, Alfred C.; and Soucek, Charles A.,3,433,853.

Schmank, Horst W.: *See—*
Beekman, Stewart M.; Holbert, James M.; and Schmank, Horst W.,3,444,292.

Schmank, Horst W.; Beekman, Stewart M.; and Holbert, James M., to Chattanooga Medicine Company, The. Heterocyclic aluminum compounds. 3,444,226, 5-13-69, Cl. 260-448.

Schmaus, Siegfried H. A.: *See—*
Harland, Philip W.; and Schmaus, Siegfried H. A.,3,423,064.

Schmeckenbecher, Arnold F., to International Business Machines Corporation. Disc bulk memory. 3,466,620, 9-9-69, Cl. 340-174.

Schmeckenbecher, Arnold F.: *See—*
Koretzky, Herman; and Schmeckenbecher, Arnold F.,3,483,029.
Leilich, Hans-Otto G.; and Schmeckenbecher, Arnold F.,3,478,335.

Schmeilau, Peter, to Bolkow Gesellschaft mit beschrankter Haftung. Engine construction for VTOL aircraft. 3,469,803, 9-30-69, Cl. 244-12.

Schmeling, Edith-Luise: *See—*
Klein, Heinz-Gunter; Lang, Konrad; Schmeling, Edith-Luise; and Weissbach, Helmut,3,424,660.

Schmeling, Gerhard; Peters, Werner; and Kleisa, Kurt, to Bergwerksverband G.m.b.H. Continuous coking apparatus. 3,444,048, 5-13-69, Cl. 202-121.

Schmeltzer, Paul F.; and Wagner, William S. Ejector for punch press. 3,452,577, 7-1-69, Cl. 72-345.

Schmerler, Joseph; and Mendelow, Robert A., to Major Pool Equipment Corporation. Compact high rate filter. 3,474,910, 10-28-69, Cl. 210-288.

Schmerling, Louis: *See—*
Bloch, Herman S.; and Schmerling, Louis,3,445,445.

Schmerling, Louis, to Universal Oil Products Company. Alkylation process. 3,420,909, 1-7-69, Cl. 260-671.

Schmerling, Louis, to Universal Oil Products Company. Condensation of alkylfurans with polyhaloolefins. 3,437,672, 4-8-69, Cl. 260-346.1

Schmerling, Louis, to Universal Oil Products Company. Dicarboxyalkylidene compounds containing halo substituted bicycloalkene moieties and derivatives thereof. 3,437,673, 4-8-69, Cl. 260-346.6

Schmerling, Louis, to Universal Oil Products Company. Process for the preparation of dicarboxyalkylidene compounds containing halo substituted bicycloalkene moieties and derivatives thereof. 3,445,481, 5-20-69, Cl. 260-347.3

Schmerling, Louis, to Universal Oil Products Company. Bis(polyhalocycloalkene)dicarboxylic acids and derivatives thereof. 3,445,482, 5-20-69, Cl. 260-347.8

Schmerling, Louis, to Universal Oil Products Company. Production of aromatic esters. 3,457,298, 7-22-69, Cl. 260-476.

Schmerling, Louis, to Universal Oil Products Company. Hydroxylation of aromatic compounds. 3,461,170, 8-12-69, Cl. 260-613.

Schmerling, Louis, to Universal Oil Products Company. Polyhalo-substituted polyhydromethanonaphthalenedicarboxylic acids or anhydrides thereof. 3,465,006, 9-2-69, Cl. 260-346.6

Schmerling, Louis, to Universal Oil Products Company. Preparation of primary alkyl esters. 3,474,131, 10-21-69, Cl. 260-497.

Schmerling, Louis, to Universal Oil Products Company. Preparation of halo substituted acyl halides. 3,484,482, 12-16-69, Cl. 260-544.
Vesely, Jerome A.; and Schmerling, Louis,3,481,989.

Schmermund, Alfred. Packaging machines. 3,431,705, 3-11-69, Cl. 53-388.

Schmermund, Alfred. Control arrangements for automatic cutting machines. 3,437,007, 4-8-69, Cl. 90-13.9

Schmermund, Alfred. Apparatus for checking blocks of cigarettes by optically imaging their ends upon a matrix of photo- cells which conforms to a normal image. 3,473,037, 10-14-69, Cl. 250-223.

Schmermund, Alfred. Filter-section distributing devices, especially for use in the manufacture of filter tipped cigarettes. 3,478,632, 11-18-69, Cl. 83-105.

Schmersahl, George W.: *See—*
Dews, Jule N.; and Schmersahl, George W.,3,426,444.

Schmets, Jean J.: *See—*
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,669.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,670.

Schmetz, Walter: *See—*
Koslowski, Hans Gunter; Schmetz, Walter; and Zangs, Alexander,3,471,082.

Schmialek, Peter: *See—*
Ruegg, Rudolf; and Schmialek, Peter,3,429,970.

Schmick, Quentin L., to Western Electric Company, Incorporated. Controlled current welding apparatus and method. 3,462,578, 8-19-69, Cl. 219-103.
Schmid & Wezel: *See—*
Wezel, Hans; and Schuhmann, Kurt, 3,465,601.
Wezel, Walter; and Schumann, Kurt, 3,435,522.
Schmid, Albert, to Fischer, Georg, Aktiengesellschaft. Feeler lever for a hydraulic copying control. 3,466,954, 9-16-69, Cl. 82-14.
Schmid, Alfred; and Nyffenegger, Heinz, to Cementfabrik Holderbank-Wildegg AG. Apparatus for measuring permeability. 3,420,094, 1-7-69, Cl. 73-38.
Schmid, Alfred; Nyffenegger, Heinz; and Bruni, Hansrudolf, to Cementfabrik Holderbank-Wildegg AG. Regulating device on a grinding arrangement. 3,482,787, 12-9-69, Cl. 241-34.
Schmid, Anthony P.: *See—*
Redwine, Richard H.; and Schmid, Anthony P.,3,484,258.
Schmid, Arthur: *See—*
Hesz, Theodor, 3,473,496.
Schmid, Bruce K.: *See—*
Beuther, Harold; and Schmid, Bruce K.,3,444,073.
Schmid, Byron C. Electrostatic separation of dry materials. 3,458,040, 7-29-69, Cl. 209-12.
Schmid, Byron C. Electrostatic separation of dry materials. 3,458,041, 7-29-69, Cl. 209-12.
Schmid, Ewin Friedrich, to SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung. Mounting for spindle-bearing housings of textile machines. 3,462,937, 8-26-69, Cl. 57-134.
Schmid, Frederick: *See—*
Crocker, Bryant W.; and Schmid, Frederick,3,433,282.
Schmid, Gerald E.; and Parez, James J., to Harnischfeger Corporation. Electrical machinery brush holder. 3,423,618, 1-21-69, Cl. 310-246.
Schmid, Heinrich; and Bernet, Alois, said Bernet, assor. to said Schmid. Safety device for stamping machines. 3,440,909, 4-29-69, Cl. 83-61.
Schmid, Helmut; Luck, Wolfhard; Loderhose, Ernst; Zinz, Bruno; and Komarek, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Process for the rapid tanning of leather. 3,482,925, 12-9-69, Cl. 8-94.17
Schmid, Hermann: *See—*
Grindle, Baline D.; and Schmid, Hermann,3,456,099.
Schmid, Hermann, to General Electric Company. Pulse-width function generator. 3,435,196, 3-25-69, Cl. 235-197.
Schmid, Hermann, to General Electric Company. Sequential analog-digital computer. 3,443,074, 5-6-69, Cl. 235-150.4
Schmid, Hermann, to General Electric Company. Electronic analog resolver. 3,473,011, 10-14-69, Cl. 235-197.
Schmid, Hermann, to General Electric Company. Digital-to-analog converter. 3,474,440, 10-21-69, Cl. 340-347.
Schmid, John H., to Zurn Industries, Inc. Water hammer arrester with controlled orifice. 3,422,853, 1-21-69, Cl. 138-30.
Schmid, John H., to Zurn Industries, Inc. Machine for deliquefying solid material. 3,467,003, 9-16-69, Cl. 100-116.
Schmid, Leopold F. Differential brake for differential gears of motor vehicles. 3,453,905, 7-8-69, Cl. 74-110.5
Schmid, Leopold F. Braking devices for differential gears of motor vehicles. 3,460,404, 8-12-69, Cl. 74-710.
Schmid, Leopold Franz: *See—*
Ostwald, Fritz; Schmid, Leopold Franz; and Heusinkveld, Walter,3,424,278.
Schmid, Leopold Franz, to Teves, Alfred GmbH. Hydraulic disk brake with auxiliary brake- operating mechanism operable from one side of the disk. 3,435,922, 4-1-69, Cl. 188-106.
Schmid, Leopold Franz, to Teves, Alfred, Maschinen- und Armaturenfabrik KG. Hydraulic brake for automotive vehicles. 3,439,786, 4-22-69, Cl. 192-4.
Schmid, Leopold Franz, to Teves, Alfred, GmbH. Disk brake and disk cleaning means. 3,473,631, 10-21-69, Cl. 188-73.
Schmid, Norbert. Device for stretching leather or the like. 3,426,558, 2-11-69, Cl. 69-46.
Schmid, Oswald Charles. Shovel holder attachment for vehicles. 3,432,133, 3-11-69, Cl. 248-201.
Schmid, Pierre E.; and Nowak, David J., to Allen-Bradley Company. Digital-analog four-quadrant multiplier network. 3,469,080, 9-23-69, Cl. 235-150.52
Schmid, Reinhold, to Wirkmaschinen-Fabrik Wilhelm Barfuss G.m.b.H. Automatic chain changing apparatus for flat knitting machines, preferably raschel warp knitting machines. 3,446,039, 5-27-69, Cl. 66-86.
Schmid, Walter, to Stewart-Warner Corporation. Composite flexible shaft casing. 3,460,578, 8-12-69, Cl. 138-125.
Schmid, Wolfgang: *See—*
Voester, Reinhold; and Schmid, Wolfgang,3,462,791.
Schmid-Zeller, Karl; and Thormann, Heinz, to Siemens Aktiengesellschaft. Push-button snap action switch utilizing a permanent magnet means, particularly for communication equipment. 3,443,043, 5-6-69, Cl. 200-67.
Schmidgall, Hartzell H. Combination stirrup and spacer for re-enforced con- crete pipe and like structure. 3,440,792, 4-29-69, Cl. 52-687.
Schmidhammer, Ludwig: *See—*
Fruhwirth, Otto; Schmidhammer, Ludwig; and Pichl, Eduard,3,424,805.
Schmidle, Claude J.: *See—*
Schramm, Charles H.; and Schmidle, Claude J.,3,454,622.
Schramm, Charles H.; and Schmidle, Claude J.,3,458,527.
Schmidle, Otto, to Moeritz, Peter F. Process for coating a surface with a textured decorative coating. 3,460,958, 8-12-69, Cl. 117-4.
Schmidlin, Albertus E., to Singer-General Precision, Inc. Flueric valve element. 3,481,205, 12-2-69, Cl. 73-515.
Schmidlin, Hans, to Eltreva AG, Firma. Frame coupling. 3,460,306, 8-12-69, Cl. 52-732.
Schmidlin, Raymond J.: *See—*
Carper, Robert L.; Lein, Juergen G. A.; Miller, Donald J.; Schmidlin, Raymond J.; and Verderber, Joseph A.,3,426,678.
Schmidt, Adolf. Process and apparatus for mechanically compacting a continuous web to effect stretching or shrinking thereof. 3,471,363, 10-7-69, Cl. 162-197.
Schmidt, Albert S.: *See—*
Irving, Frank M., Jr.; and Schmidt, Albert S.,3,438,522.
Schmidt, Alfred, Ing.: *See—*
Hirt, Walter, 3,457,574.
Hirt, Walter, 3,483,641.
Schmidt, Alfred W., Jr.: *See—*
Spangler, Paul J.; and Schmidt, Alfred W., Jr.,3,423,815.
Weinrotter, Ferdinand; Schmidt, Alfred; Muller, Walter; and Bohler, Walter,3,432,501.
Schmidt, Andreas, to Ehrenreich, A. & Cie. Method of making a ball joint housing. 3,422,526, 1-21-69, Cl. 29-441.
Schmidt, Andreas, to Ehrenreich, A., & Cie. Ball joint. 3,429,599, 2-25-69, Cl. 287-87.
Schmidt, Armin E., to Sickinger, Hans, Co. Machine for inserting spiral wire binders. 3,459,242, 8-5-69, Cl. 140-92.93
Schmidt, Armin E.: *See—*
Sickinger, Hans A.; Sickinger, Albert E.; and Schmidt, Armin E.,3,485,387.
Schmidt, Arno Gustav. Binocular loupe selective and collective interocular and convergence adjustment means. 3,454,324, 7-8-69, Cl. 350-146.
Schmidt, Arthur D.; and Shuert, Keith L., to Oakland Community College. Instructional device. 3,461,572, 8-19-69, Cl. 35-31.
Schmidt, Beuther L., to Anchor Hocking Glass Corporation. Glass furnace with two separate throat passages. 3,421,876, 1-14-69, Cl. 65-346.
Schmidt, Bob, Inc.: *See—*
Schmidt, Robert H. E.; and Thompson, Robert E., 3,476,440.
Schmidt, Don J. Air powered grooming machine for cables and the like. 3,477,081, 11-11-69, Cl. 15-88.
Schmidt, Donald L., to United States of America, Air Force. Ablative antenna window compositions. 3,422,057, 1-14-69, Cl. 260-41.
Schmidt, Donald L.; and Daniels, Arthur L., to Dow Chemical Company, The. Aluminum monohydride catecholate. 3,435,059, 3-25-69, Cl. 260-448.
Schmidt, Donald L.; and Hawkins, Houston T., to United States of America, Air Force. High impact protective structure and method and manufacturing same. 3,485,272, 12-23-69, Cl. 138-112.
Schmidt, Donald L.; and Hellmann, Reinhold, to Dow Chemical Company, The. Aluminum plating process. 3,462,288, 8-19-69, Cl. 117-37.
Schmidt, Earl O.; and Anderson, Roy D., to Ramsey Corporation. Piston ring. 3,460,846, 8-12-69, Cl. 277-140.
Schmidt, Eberhardt, to Centre Electronique Horloger S.A. Indicating device for low energy electric signals, comprising conducting liquids. 3,486,109, 12-23-69, Cl. 324-94.
Schmidt, Edward C., to Pucel, Edward L. Tilting arc device having improved trolley carrier. 3,434,612, 3-25-69, Cl. 214-658.
Schmidt, Edwin H., to Honeywell Inc. Anisotropic magnetic thin film memory apparatus. 3,465,307, 9-2-69, Cl. 340-174.
Schmidt, Edwin H., to Honeywell Inc. Counting circuit utilizing a quantized magnetic core. 3,466,619, 9-9-69, Cl. 340-174.
Schmidt, Edwin H.: *See—*
Paine, Veijo K.; and Schmidt, Edwin H.,3,460,110.
Schmidt, Emil: *See—*
Meyer, Hermann; Markert, Ferdinand; and Schmidt, Emil,3,458,588.
Schmidt, Erich A., to Universal Button Company, Division of Talon, Inc. Apparatus for attaching pronged elements. 3,420,427, 1-7-69, Cl. 227-116.
Schmidt, Ernst. Method of forming a slot for a screwdriver. 3,435,506, 4-1-69, Cl. 29-159.2
Schmidt, Eugene D.; and Schaub, Erwin L., to Ideal Corporation. Screw with hexagonal collared slotted head. 3,456,548, 7-22-69, Cl. 85-9.
Schmidt, Ewald, to Leitz, Ernst, G.m.b.H. Exposure measuring device for single lens reflex cameras. 3,468,233, 9-23-69, Cl. 95-42.
Schmidt, Felix Helmut: *See—*
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Schmidt, Felix Helmut,3,448,149.

Weber, Helmut; Muth, Karl; Weyer, Rudi; Aumuller, Walter; and Schmidt, Felix Helmut,3,449,417.
Haack, Erich; Peschke, Wilhelm; Stach, Kurt; Schmidt, Felix H.; and Weber, Helmut,3,439,033.
Aumuller, Walter; Weber, Helmut; Muth, Karl; Weyer, Rudi; and Schmidt, Felix,3,454,636.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Felix,3,426,067.

Schmidt, Flix Helmut: *See—*
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Flix Helmut,3,454,635.

Schmidt, Fred J., to United States of America, Army, mesne. Fast warmup cathode. 3,432,714, 3-11-69, Cl. 313-.337.

Schmidt, Frederick A.; Carlson, Oscar N.; Krupp, William E.; and Wilhelm, Harley A., to United States of America, Atomic Energy Commission. Purification of vanadium and columbium (niobium). 3,425,826, 2-4-69, Cl. 75-84.

Schmidt, Frederick C.: *See—*
Armstrong, Jack W.; Moore, David L.; and Schmidt, Frederick C.,3,468,404.

Schmidt, Friedrich H. Air conditioning apparatus. 3,470,945, 10-7-69, Cl. 165-48.

Schmidt, George E.: *See—*
Gricol, Joseph D.; and Schmidt, George E.,3,446,267.

Schmidt, George F.: *See—*
Brown, Robert R.; and Schmidt, George F.,3,422,050.

Schmidt, Glenn A. Percussion generating circuit for electric organs. 3,484,531, 12-16-69, Cl. 84-1.26

Schmidt, Gunter: *See—*
Ryman, Ivan; and Schmidt, Gunter,3,426,439.

Schmidt, Gunther, to Boehringer Ingelheim G.m.b.H.Novel 5-substituted 5,6-dihydro-6-oxo-pyrido[2,3-β [1,4]benzoxazepines. 3,459,737, 8-5-69, Cl. 260-239.3

Schmidt, Gustave Francis, Jr. Self-closing safety pin. 3,465,392, 9-9-69, Cl. 24-158.

Schmidt, Hans-Egbert, to AGFA-Gevaert Aktiengesellschaft. Flash unit for use with plural types of flash bulbs. 3,487,351, 12-30-69, Cl. 339-33.

Schmidt, Hans-Joachim: *See—*
Fernholz, Hans; and Schmidt, Hans-Joachim,3,427,123.
Fernholz, Hans; and Schmidt, Hans-Joachim,3,468,948.
Voeste, Theodor; and Schmidt, Hans-Joachim,3,444,221.

Schmidt, Harvey W.: *See—*
Kass, Robert A.; and Schmidt, Harvey W.,3,439,806.

Schmidt, Heiner, to U.S. Philips Corporation, mesne. Amplifying arrangement having automatic gain control. 3,467,910, 9-16-69, Cl. 330-29.

Schmidt, Heinrich K., to Roller Bearing Company of America. Self-aligning plain bearing. 3,464,747, 9-2-69, Cl. 308-72.

Schmidt, Henry, Jr.; and Borre, Earl A., to Industrial Filter & Pump Mfg. Co. Filtration apparatus. 3,438,502, 4-15-69, Cl. 210-232.

Schmidt, Henry K.; and Beimfohr, Siegfried, to Roller Bearing Company of America. Eccentrically adjustable roller. 3,467,450, 9-16-69, Cl. 308-15.

Schmidt, Hermann: *See—*
Benteler, Erich; and Schmidt, Hermann,3,441,126.

Schmidt, Hermann. Sine plate assembly. 3,432,934, 3-18-69, Cl. 33-174.

Schmidt-Holthausen, Hans-Joachim; and Backsen, Hermann, to Fuller Company. Method and apparatus for blending bulk solids. 3,462,130, 8-19-69, Cl. 259-18.

Schmidt, Horst: *See—*
Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst,3,483,373.

Schmidt, Horst, to Leitz, Ernst, GmbH. Combined sighting mechanism and laser range finder. 3,464,770, 9-2-69, Cl. 356-4.

Schmidt, Horst; and Bohmer, Hellmut, to Leitz, Ernst, GmbH. Day-night optical viewing device. 3,464,757, 9-2-69, Cl. 350-1.
Wolff, Otto; Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst,3,474,246.

Schmidt, Jack W.: *See—*
Cress, Vernor B., Jr.; and Schmidt, Jack W.,3,483,508.
West, Charles E., Jr.; and Schmidt, Jack W.,3,475,992.

Schmidt, Jacob E., to McGraw-Edison Company. Battery construction. 3,463,672, 8-26-69, Cl. 136-166.

Schmidt, James H.; and Hedstrom, Warren W., to Fuel Engineering. Method and apparatus for charging an autoclave with a heated inert gas. 3,452,810, 7-1-69, Cl. 165-2.

Schmidt, James H.; and Hedstrom, Warren W., to Fuel Engineering. Autoclave cooling system. 3,469,414, 9-30-69, Cl. 62-309.

Schmidt, Joachim Fritz: *See—*
Dauth, Christoph Eugen; Tonjes, Heinz Karl Wilhelm; Heidenbluth, Karlheinz; and Schmidt, Joachim Fritz,3,475,449.

Schmidt, Joachim, to VEB Druckmaschinenwerke Leipzig. Device for insertion of marking strips into a forming stack. 3,458,186, 7-29-69, Cl. 270-58.

Schmidt, John P.: *See—*
Golden, Richard L.; and Schmidt, John P.,3,452,055.

Schmidt, John P., to Halcon International, Inc. Process for fractionating propylene from propylene oxide in the presence of hydrocarbon flux. 3,449,219, 6-10-69, Cl. 203-68.

Schmidt, John. Apparatus for forming pellets of semi-solid material. 3,462,911, 8-26-69, Cl. 53-122.

Schmidt, Joseph A.: *See—*
Thorsted, Kenneth G.; Renner, Louis C.; and Schmidt, Joseph A.,3,430,487.

Schmidt, Karl, G.m.b.H.: *See—*
Diez, Adolf, 3,428,217.
Henle, Rudolf; and Scheufler, Roland, 3,430,322.
Scheufler, Roland, 3,449,032.
Weiss, Franz; and Bauer, Hermann, 3,438,789.

Schmidt, Karl Gunther; Mohr, Gunther; and Lust, Sigmund, to Merck, E., A.G. Certain 3-acylthioalkylenethio-5-alkylthio-4-cyano- isothiazoles and 5-acylthioalkylenethio-3- alkylthio-4-cyano-isothiazoles. 3,481,946, 12-2-69, Cl. 260-302.

Schmidt, Karl Heinz: *See—*
Gootschalk, Heinrich Georg, 3,477,733.
Kunz, Karl, 3,424,262.
Schmidt, Karl Heinz; and Bildat, Benno, 3,446,097.
Steinert, Kurt, 3,445,019.

Schmidt, Karl Heinz; and Bildat, Benno, to Schmidt, Karl Heinz. Device for the synchronized shifting of motor vehicle transmissions. 3,446,097, 5-27-69, Cl. 74-844.

Schmidt, Karl Lykke: *See—*
Seest, Tage B.; and Schmidt, Karl Lykke,3,471,078.

Schmidt, Karl R.: *See—*
Mears, William G.; Schmidt, Karl R.; and vander Straeten, Herman J.,3,421,367.

Schmidt, Karl-Ludwig: *See—*
Reischl, Artur; Gobel, Wilhelm; and Schmidt, Karl-Ludwig,3,444,266.

Schmidt, Karl-Walter: *See—*
Bensinger, Wolf-Dieter; and Schmidt, Karl-Walter,3,444,842.

Schmidt, Karl, to Siemens-Schuckertwerke Aktiengesellschaft. Conductive spiral tube welding apparatus. 3,448,235, 6-3-69, Cl. 219-62.

Schmidt, Karl; and Dannenbaum, Hans, deceased0 (by Dannenbaum, Ella born Supply; heir), to Beck, Dr., & Co. GmbH. Preparation of hardenable nitrogen containing synthetic resinous products. 3,454,673, 7-8-69, Cl. 260-868.

Schmidt, Karl; Hansch, Ferdinand; and Rombrecht, Hans-Malte, to Beck, Dr., & Co., GmbH. Polyester imide resins from imide group containing polyvalent carboxylic acids containing at least three carboxy groups. 3,459,829, 8-5-69, Cl. 260-850.

Schmidt, Karl; and Neubert, Gerhard, to Beck, Dr., & Co., GmbH. Production of carboxylamide group-containing polyesterimide resins. 3,458,480, 7-29-69, Cl. 260-75.

Schmidt, Kenneth A., to Nalco Chemical Company. Ion exchange process and regeneration of anion exchange resins. 3,458,439, 7-29-69, Cl. 210-32.

Schmidt, Kenneth A., to Nalco Chemical Company. Demineralization of polar liquids. 3,458,440, 7-29-69, Cl. 210-32.

Schmidt, Kenneth A.; and Odland, Karsten, to Nalco Chemical Company. Process for demineralizing polar liquids and for regenerating ion exchange resins. 3,438,891, 4-15-69, Cl. 210-32.

Schmidt, Kenneth J., to General Trailer Company, Inc. Axle load distributing apparatus. 3,485,505, 12-23-69, Cl. 280-81.

Schmidt, Lawrence D., to Allied Chemical Corporation. Charging coke oven with hot coarsely comminuted coal. 3,432,398, 3-11-69, Cl. 201-38.

Schmidt, Lawrence D., to Allied Chemical Corporaton. Charging of preheated coal into the coking chambers of a coke oven battery. 3,457,141, 7-22-69, Cl. 201-10.

Schmidt, Leonard G., to Crane Carton Corporation. Shadow box. 3,434,646, 3-25-69, Cl. 229-16.

Schmidt, Lewis W.: *See—*
Gates, Lauren W.; and Schmidt, Lewis W.,3,436,902.

Schmidt, Lukas-Valentin: *See—*
Schlage, Ernest L.; and Schmidt, Lukas-Valentin,3,454,295.

Schmidt, Otfried; Prezewowsky, Klaus; and Wiechert, Rudolf, to Schering A.G. 15,16 Beta-methylene steroids of the estrane and androstane series and methods for preparing same. 3,470,160, 9-30-69, Cl. 260-239.55

Schmidt, Otfried; Wiechert, Rudolf; and Neumann, Friedmund, to Schering, A.G.Medicinal compositions which contain 15,16-β-methylene steriods of the 19 nor-androstane series. 3,469,008, 9-23-69, Cl. 424-243.

Schmidt, Otto: *See—*
Keller, Wolfgang; and Schmidt, Otto,3,436,509.

Schmidt, Otto, to Siemens Aktiengesellschaft. Reducing dislocation defects of silicon semiconductor monocrystals by heat treatment. 3,441,385, 4-29-69, Cl. 23-293.

Schmidt, Paul F., to Bell Telephone Laboratories, Incorporated. Anodic treatment to alter solubility of dielectric films. 3,438,873, 4-15-69, Cl. 204-35.

Schmidt, Paul: *See—*
Feldmann, Klaus; Frank, Klaus; Gerhardt, Wilfried; Schmidt, Paul; and Kandler, Joachim,3,471,595.

Schmidt, Paul, to Ciba Corporation. 2,5-Bis-(aminoalkoxy phenyl) thiazolo [5,4-d] thiazoles. 3,442,894, 5-6-69, Cl. 260-246.
Schmidt, Paul; Eichenberger, Kurt; Rossi, Alberto; and Wilhelm, Max, to Ciba Corporation. N-phenyl-5-(dimethylsulfamoyl)-anthranilic acid, esters and amides thereof. 3,444,177, 5-13-69, Cl. 260-239.7
Schmidt, Paul; Eichenberger, Kurt; and Wilhelm, Max, to Ciba Corporation. 3-Pyridyl-5-pyridoylamino-isoxazoles. 3,475,443, 10-28-69, Cl. 260-295.
Schmidt, Paul; Schweizer, Ernst; Eichenberger, Kurt; and Wilhelm, Max, to Ciba Corporation. Sulfanilamido-pyrimidines. 3,422,098, 1-14-69, Cl. 260-239.75
Schmidt, Paul; Wilhelm, Max; and Eichenberger, Kurt, to Ciba Corporation. 9:10-Dihydro-9:10-ethanoanthracen-9- alkanamides. 3,455,928, 7-15-69, Cl. 260-268.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,455,946.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,480,640.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,483,221.
Schmidt, Peter Jurgen: *See*—
Scholl, Hermann; Rabus, Friedrich; Eichler, Dieter; Kadelbach, Volker; Reichardt, Wolfgang; and Schmidt, Peter Jurgen,3,433,101.
Schmidt, Raymond A.; Wilhelm, Frederick A., Jr.; and Kayle, William W., to Electronic Associates Inc. Program interrupt system. 3,434,111, 3-18-69, Cl. 340-172.5
Schmidt, Richard F.: *See*—
Elia, Armondo D.; and Schmidt, Richard F.,3,438,044.
Schmidt, Richard Frederick, to American Cyanamid Company. Preparation of stable dispersions of finely divided halogen-containing vinyl polymers. 3,451,960, 6-24-69, Cl. 260-29.6
Schmidt, Richard Lee; and Featherston, Richard Henry, to Reynolds Metals Company. Cleaning evaporator tubes. 3,443,992, 5-13-69, Cl. 134-41.
Schmidt, Richard, to Franz Morat G.m.b.H. Slide latch needle selector arrangement. 3,426,550, 2-11-69, Cl. 66-13.
Schmidt, Richard, to Franz Morat GmbH. Thread speed measuring apparatus. 3,456,187, 7-15-69, Cl. 324-70.
Schmidt, Richard; and Stock, Hans-Joachim, to Morat, Franz, G.m.b.H. Selector apparatus for circular knitting machines. 3,449,928, 6-17-69, Cl. 66-50.
Schmidt, Robert C., to Varian Associates. High power multicavity amplifier having enlarged drift tube gap defining portions to inhibit electronic feedback. 3,447,018, 5-27-69, Cl. 315-5.29
Schmidt, Robert H. E.; and Thompson, Robert E., to Schmidt, Bob, Inc. Portable abrasive container and dispenser unit. 3,476,440, 11-4-69, Cl. 302-53.
Schmidt, Robert J.; and Santucci, Lawrence E., to Chevron Research Company. Method for coating and resurfacing paved surfaces with resinous mortars. 3,423,224, 1-21-69, Cl. 117-2.
Schmidt, Robert L.: *See*—
Hanser, Paul E.; Schmidt, Robert L.; and Carr, Marvin W.,3,455,400.
Schmidt, Robert L., to United States of America, Navy. Inertial device utilizing gyroscopes. 3,456,512, 7-22-69, Cl. 74-5.34
Schmidt, Rolf; and Schranz, Karl-Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Self-developer camera. 3,483,809, 12-16-69, Cl. 95-13.
Schmidt, Siegfried, to North American Philips Company, Inc. Electrode assemblies with sequentially operated, closely adjacent spark gaps. 3,428,782, 2-18-69, Cl. 219-383.
Schmidt, Siegfried, to U.S. Philips Corporation. Rotatable spark gap printing device having a fixed ignition electrode. 3,474,288, 10-21-69, Cl. 315-36.
Schmidt, Siegfried: *See*—
Topc, Paul H.; and Schmidt, Siegfried,3,421,826.
Schmidt, Theodor, to Indugas Gesellschaft fur industrielle Gasverwendung m.b.H., Firma. Heat-treatment apparatus. 3,459,414, 8-5-69, Cl. 266-5.
Schmidt, Thomas: *See*—
Hummelshoj, Gustav E., 3,456,926.
Hummelshoj, Gustav E., 3,465,396.
Schmidt, Uwe J., to TRW Inc. Light beam deflector. 3,482,899, 12-9-69, Cl. 350-150.
Schmidt, Volker: *See*—
Prewitt, Richard H.; and Schmidt, Volker,3,430,250.
Schmidt, Waldemar M.: *See*—
Melull, Fredrick H.; and Schmidt, Waldemar M.,3,438,423.
Schmidt, Walter: *See*—
Fischer, Heinz-Jurgen; and Schmidt, Walter,3,465,245.
Kapteyn, Paul; and Schmidt, Walter,3,437,021.
Kapteyn, Paul; and Schmidt, Walter,3,458,696.
Schmidt, Walter, to Loewe Opta G.m.b.H. Arrangement for varying the focus of a flash lamp in photographic electronic flash units. 3,446,951, 5-27-69, Cl. 240-1.3
Schmidt, Walter, to Loewe Opta GmbH. Reflector for an electronic photographic flash unit. 3,484,597, 12-16-69, Cl. 240-1.3
Schmidt, Walter; Vitzthum, Dieter; Hoffmann, Herbert; and Katz, Helmut, to Siemens Aktiengesellschaft. Supply cathode for electrical discharge vessels and method for its production. 3,458,913, 8-5-69, Cl. 29-25.17
Schmidt, Walther: *See*—
Jackson, John Harry; and Schmidt, Walther,3,477,844.
Schmidt, Warren E.: *See*—
Peterson, Robert R.; Schmidt, Warren E.; and Woodford, Philip R.,3,467,353.
Schmidt, Warren J., to Westinghouse Electric Corporation. Phase independent induction type meter for measuring volt-amperes. 3,457,506, 7-22-69, Cl. 324-141.
Schmidt, Wilhelm E. A., to Western Electric Company, Incorporated. Methods of and apparatus for percussively welding an element to an object. 3,437,782, 4-8-69, Cl. 219-95.
Schmidt, Wilhelm: *See*—
Benteler, Erich; Schmidt, Wilhelm; and Schmidt, Willi,3,476,409.
Schmidt, Willi J.; and Schuck, Stephan, to Kalle Aktiengesellschaft. Method and apparatus for winding up tapes or filaments. 3,424,395, 1-28-69, Cl. 242-56.9
Schmidt, William C. Mobile scaffolding device particularly for fruit picking. 3,421,599, 1-14-69, Cl. 182-141.
Schmidt, William D. Cutting implement. 3,453,730, 7-8-69, Cl. 30-248.
Schmidt, William G., to Communications Satellite Corporation. Biorthogonal code generator. 3,484,782, 12-16-69, Cl. 340-348.
Schmidt, Willi: *See*—
Benteler, Erich; Schmidt, Wilhelm; and Schmidt, Willi,3,476,409.
Schmidt, Wolfgang; and Seifert, Horst, to U.S. Philips Corporation, mesne. Thermionic cathode with heat shield having a heating current by-pass. 3,450,927, 6-17-69, Cl. 313-270.
Schmidtke, Charles W.: *See*—
Emery, Alvin T.; and Schmidtke, Charles W.,3,425,928.
Schmidtke, Richard A.; and Polhemus, Frederick C., Jr., to United Aircraft Corporation. Explosive joining device. 3,477,262, 11-11-69, Cl. 72-56.
Schmidtmann, Victor H.: *See*—
Anderson, Victor C.; and Schmidtmann, Victor H.,3,454,286.
Schmidt'sche Heissclampf Gesellschaft m.b.H.:*See*—
Vollhardt, Frohmut, 3,433,298.
Schmiedel, Ulrich, to Gevaert Photo-Producten N.V. Developing powder. 3,441,505, 4-29-69, Cl. 252-62.1
Schmiedel, Ulrich; Meeussen, Louis Achille; Cassiers, Paul Maria; and Hart, Rene Maurice, said Meeussen, said Cassiers, and said Hart assor. to Gevaert Photo-Producten N.V. Thermoplastic recording process. 3,441,947, 4-29-69, Cl. 346-74.
Schmieder, Albert K., to General Electric Company. Rupture test specimen and coupling therefor. 3,426,587, 2-11-69, Cl. 73-103.
Schmieding, Mille Peare. Cosmetic bottle having tapered outlet, complementing shape of fingers. 3,451,399, 6-24-69, Cl. 132-73.
Schmiedl, Juraj: *See*—
Holeczy, Julius; Schmiedl, Juraj; and Sehnalek, Frantisek,3,459,415.
Schmiel, Herbert H., to Parker-Hannifin Corporation. Valve assembly for fluid motors and the like. 3,474,708, 10-28-69, Cl. 91-436.
Schmieman, Thomas E.: *See*—
Redman, William J.; and Schmieman, Thomas E.,3,427,988.
Schmier, Alfred, to Varta Pertrix-Union G.m.b.H. Process of producing ramsdellit, a type of manganese dioxide. 3,427,128, 2-11-69, Cl. 23-145.
Schmierer, Heinz, to Altec Gesellschaft Fur Allgemeine Landtechnik m.b.H. Pump. 3,468,261, 9-23-69, Cl. 103-150.
Schminke, Hans-Dieter: *See*—
Grigat, Ernst; Schminke, Hans-Dieter; and Putter, Rolf,3,448,079.
Schmit, Francis M., to Honeywell Inc. Semiconductor method and apparatus. 3,459,668, 8-5-69, Cl. 252-62.3
Schmit, Josef. Water tank with uniform-cross-section spiral storage channels. 3,482,599, 12-9-69, Cl. 137-590.
Schmiterlow, Fredrik, to Allmanna Svenska Elektriska Aktiebolaget. Spring supported railway vehicle. 3,469,538, 9-30-69, Cl. 105-199.
Schmitt, Ackermann U., K.G.: *See*—
Csaki, Joachim, 3,484,860.
Schmitt, Bernhard: *See*—
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo,3,429,836.
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo,3,434,980.
Schmitt, Charles H.: *See*—
Sandin, Raymond C.; and Schmitt, Charles H.,3,430,386.
Schmitt, Dale A.; and Cheatwood, Lowell K., to Metalines, Incorporated. Expansion joint cover assembly. 3,448,552, 6-10-69, Cl. 52-287.
Schmitt, Donald B., to Du Pont de Nemours, E. I., and Company. Process for forming differential shrinkage bulked yarn. 3,423,809, 1-28-69, Cl. 28-72.

Schmitt, Donald E.; Manzer, Marvin R.; and Clay, Howard W., to Reed Electromech Corporation. Plural successively operable check controlled slides. 3,460,663, 8-12-69, Cl. 194-92.
Schmitt, Donald J., to Therm-O-Disc, Incorporated. Snap disc thermostat. 3,451,028, 6-17-69, Cl. 337-343.
Schmitt, Donald J., to Therm-O-Disc, Incorporated, mesne. Thermostatic switch assembled with a single fastener. 3,470,518, 9-30-69, Cl. 337-396.
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert, to American Cyanamid Company. Method for preparation of isomerically pure β- glycolide and polymerization method for glycolide compositions employing partial hydrolyzate of said β-glycolide. 3,435,008, 3-25-69, Cl. 260-78.3
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert, to American Cyanamid Company. Process for polymerizing a glycolide. 3,442,871, 5-6-69, Cl. 260-78.3
Schmitt, Edward Emil; Epstein, Martin; and Polistina, Rocco Albert, to American Cyanamid Company. α-Glycolide and methods for the isolation thereof. 3,457,280, 7-22-69, Cl. 260-340.2
Schmitt, Edward Emil; and Polistina, Rocco Albert, to American Cyanamid Company. Polyglycolic acid prosthetic devices. 3,463,158, 8-26-69, Cl. 128-334.
Schmitt, Edward Emil; and Polistina, Rocco Albert, to American Cyanamid Company. Process of polymerizing a glycolide. 3,468,853, 9-23-69, Cl. 260-78.3
Schmitt, Edward L., to Kerotest Manufacturing Corporation. Valve assembly with indicator and lock. 3,448,762, 6-10-69, Cl. 137-383.
Schmitt, Edward L., to Kerotest Manufacturing Corporation. Flange coupling having movable support members. 3,473,831, 10-21-69, Cl. 285-24.
Schmitt, Emil. Method and device for fastening jamb linings. 3,482,365, 12-9-69, Cl. 52-204.
Schmitt, Emmerich Arban. Tool guides. 3,474,838, 10-28-69, Cl. 144-105.
Schmitt, Eugen, to Eastman Kodak Company. Camera carrying case. 3,441,072, 4-29-69, Cl. 150-52.
Schmitt, George J.: *See*—
Cawthon, Thomas M.; Schmitt, George J.; Higbee, Allen F.; Pedersen, Jack R.; and Oswald, Hendrikus J.,3,442,975.
Gilbert, Everett E.; Oxenrider, Bryce C.; and Schmitt, George J.,3,480,585.
Schmitt, Gervase G. Gasoline intake device. 3,467,274, 9-16-69, Cl. 220-86.
Schmitt, Heinz, to Heraeus-Schott Quarzschmelze G.m.b.H. Supporting rack of quartz. 3,480,151, 11-25-69, Cl. 211-41.
Schmitt, Helmut, to Gossen, P. & Co. GmbH. Exposure meter using two indicator lamps. 3,436,158, 4-1-69, Cl. 356-226.
Schmitt, Howard J.; and Rohn, William C., to Laboratory Equipment Corporation. Copper wire segments as accelerator for induction furnace combustion of ferrous metal. 3,464,795, 9-2-69, Cl. 23-230.
Schmitt, Jack N. Roof truss machine. 3,487,430, 12-30-69, Cl. 100-231.
Schmitt, James L.: *See*—
Behrends, Bertwin E.; and Schmitt, James L.,3,420,180.
Schmitt, Jerry C., to Collins Radio Company. AM amplifier circuit. 3,443,239, 5-6-69, Cl. 330-25.
Schmitt, Jerry C., to Collins Radio Company. Circuit for preventing overdriving of transistors. 3,456,205, 7-15-69, Cl. 330-29.
Schmitt, Johannes; and Schaper, Hans, to Swiss Aluminium Ltd. Terminal voltage regulation in electrolytic aluminum production. 3,434,945, 3-25-69, Cl. 204-67.
Schmitt, Josef, to Etablissements Clin-Byla. Benzodiazepine compounds. 3,426,014, 2-4-69, Cl. 260-239.3
Schmitt, Josef; and Brunaud, Marcel Daniel Pierre, to Etablissements Clin-Byla. Method of relieving exaggerated uterine contractions. 3,437,731, 4-8-69, Cl. 424-330.
Schmitt, Josef; and Panouse, Jacques J., to Etablissements Clin-Byla. Amino-sterol compounds and production thereof. 3,424,747, 1-28-69, Cl. 260-239.5
Schmitt, Joseph Michael, to American Cyanamid Company. Rubber-reinforced acrylate resin containing polymeric epichlorohydrin. 3,445,544, 5-20-69, Cl. 260-876.
Schmitt, Joseph Michael, to American Cyanamid Company. Transparent molding compositions comprising methacrylate polymers blended with a minor amount of poly(vinylidene fluoride). 3,459,834, 8-5-69, Cl. 260-898.
Schmitt, Karl-Friedrich, to Bunker-Ramo Corporation, The, mesne. Hermaphrodite electrical contact. 3,478,296, 11-11-69, Cl. 339-47.
Schmitt, Karl-Friedrich; and Boch, Walter, to Tuchel, Ulrich. Electrical plug. 3,451,036, 6-17-69, Cl. 339-42.
Schmitt, Karl Otto; Hansen, Guenter; and Mueller, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of sodium bicarbonate. 3,449,067, 6-10-69, Cl. 23-65.
Schmitt, Karl; Ester, Wilhelm; Heumann, Hans; and Pauling, Harry, to Hibernia Chemie G.m.b.H. Nitrogen oxide conversion. 3,453,071, 7-1-69, Cl. 23-103.
Schmitt, Paul; and Hien, Manfred, to Mannesmann-Meer Aktiengesellschaft. Adjustable roll straightener. 3,472,054, 10-14-69, Cl. 72-225.
Schmitt, Raymond C. Map game apparatus with cards arranged in matched pairs. 3,467,387, 9-16-69, Cl. 273-134.
Schmitt, Robert E.: *See*—
McCormick, Harold E.; and Schmitt, Robert E.,3,462,333.
Schmitt, Robert O.: *See*—
Going, Louis H.; Mersfelder, Robert E.; and Schmitt, Robert O.,3,450,727.
Schmitt, Theophil D., to Rohm & Haas Company. Adhesive for reinforcing rubber. 3,483,075, 12-9-69, Cl. 161-227.
Schmitt, Thomas S.: *See*—
Burbridge, William P.; Morgan, John R.; and Schmitt, Thomas S.,3,467,104.
Schmitt, Walter Peter; and Kopf, Marcel Georges, to Sarel Appareillage Electrique. Electrical cabinet with separable parts. 3,452,148, 6-24-69, Cl. 174-52.
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf, to Espe Fabrik Pharmazeutischer Praparate GmbH. Elastomers from polyethers and ethylene imine derivatives. 3,453,242, 7-1-69, Cl. 260-77.5
Schmitt, Wilhelm, to Freudenberg, Carl. Method and apparatus for testing fluid seals or the like. 3,447,361, 6-3-69, Cl. 73-88.
Schmitt, Wilhelm. Metallurgical furnace. 3,455,543, 7-15-69, Cl. 263-15.
Schmittle, Karl V.: *See*—
Jednacz, Thomas C.; and Schmittle, Karl V.,3,434,032.
Schmittle, Karl V., to Borg-Warner Corporation. Thermoelectric temperature control system. 3,438,214, 4-15-69, Cl. 62-3.
Schmittroth, Walter: *See*—
Orlandini, Bruno; and Schmittroth, Walter,3,482,966.
Schmitz, Alfred W., Jr., deceased0 (by Schmitz, Joan C.; executrix), to Schmitz, Joseph E. Method for producing electrical terminals. 3,455,022, 7-15-69, Cl. 29-629.
Schmitz, Christian, to Daimler-Benz Aktiengesellschaft. Cooled rotor blade. 3,468,513, 9-23-69, Cl. 253-39.15
Schmitz, Ewald F.: *See*—
Chamberlin, Robert S.; Orr, Clifford M.; and Schmitz, Ewald F.,3,453,879.
Schmitz, Heinz: *See*—
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,476,955.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,484,493.
Wendt, Heinz; and Schmitz, Heinz,3,461,159.
Schmitz, Hilger Peter, to Wacker-Chemie G.m.b.H. Means for automatically preventing leakage of liquids from closed containers which suddenly spring a leak. 3,473,552, 10-21-69, Cl. 137-312.
Schmitz, Hugo: *See*—
Deussner, Herbert; and Schmitz, Hugo,3,443,687.
Schmitz, Joan C.: *See*—
Schmitz, Alfred W., Jr.,3,455,022.
Schmitz, Joseph E.: *See*—
Schmitz, Alfred W., Jr., 3,455,022.
Schmitz, Karl-Heinz: *See*—
Strohmeier, Helmut; and Schmitz, Karl-Heinz,3,450,298.
Schmitz, Lambert: *See*—
Rover, Martin; Luth, Erwin; Schmitz, Lambert; and Linsert, Friedrich,3,433,424.
Schmitz, Marvin J.: *See*—
Bader, William F.; Landy, Arney, Jr.; and Schmitz, Marvin J.,3,434,151.
Schmitz, Richard F., Firma: *See*—
Heide, Gotthard, 3,452,583.
Schmitz, Robert, to Honeywell Inc. Diaphragm valve. 3,464,448, 9-2-69, Cl. 137-625.18
Schmitz, William B. Watercraft. 3,436,774, 4-8-69, Cl. 9-1.
Schmocker, Walter E., to Industrial Electronic Rubber Company. Process of making rubber-tipped valve element. 3,440,313, 4-22-69, Cl. 264-162.
Schmolka, Irving R., to Wyandotte Chemicals Corporation. Iodine-containing nonionic surfactant compositions. 3,438,905, 4-15-69, Cl. 252-106.
Schmolka, Irving R., to Wyandotte Chemicals Corporation. Iodine-containing nonionic surfactant compositions. 3,438,907, 4-15-69, Cl. 252-106.
Schmoll, Kurt, to Dynamit Nobel Aktiengesellschaft. Novolak resins mined with polyvinyl alcohol. 3,434,997, 3-25-69, Cl. 260-33.4
Schmollinger, Richard G., to Donnelley, Reuben H., Corporation, The. Automatic weighing and metering control device. 3,477,528, 11-11-69, Cl. 177-3.
Schmon, Franz, to Bell Aerospace Corporation. Dynamic load damping valve for connecting system pressure fluid and return to actuator. 3,461,780, 8-19-69, Cl. 91-433.
Schmoock, Roy F.; Guenther, Peter W.; and Levesque, Peter S., to Fischer & Porter Company. Apparatus to perform integration or integration and square root extraction. 3,484,593, 12-16-69, Cl. 235-183.

Schmoock, Roy L.; and Asai, Isao, to Fischer & Porter Co. Electronic multiplier/divider for fluid flow systems. 3,445,643, 5-20-69, Cl. 235-194.

Schmuck, Fredric E.: *See—*
Schoepe, Adolf; and Schmuck, Fredric E.,3,428,966.
Schoepe, Adolf; and Schmuck, Fredric E.,3,429,333.

Schmucker, Morton Lee: *See—*
Brown, William Lewis; and Schmucker, Morton Lee,3,477,859.

Schmuckler, Gabriella, to Technion Research and Development Foundation, Ltd. Method for recovery of noble metals. 3,473,921, 10-21-69, Cl. 75-118.

Schmude, Wolfgang; and Pohler, Heinz, to Eisenwerk Rothe Erde G.m.b.H. Method of making a wire race for antifriction bearings. 3,478,402, 11-18-69, Cl. 29-148.4

Schmued, Edgar. Level-establishing device. 3,458,940, 8-5-69, Cl. 33-215.

Schmulbach, Charles D., to Research Corporation. Phosphonitrile polymer. 3,427,137, 2-11-69, Cl. 23-357.

Schmunk, John D., to Hancock Brick & Tile Company, The. Drain tile laying apparatus. 3,421,609, 1-14-69, Cl. 193-2.

Schmutz, Jean; Hunziker, Fitz; and Kunzle, Franz Martin, to Wander, A., Dr., S.A. 5-Basic substituted 5,6-dihydro-6- oxomorphanthridines. 3,454,561, 7-8-69, Cl. 260-239.3

Schmutz, Jean; Hunziker, Fritz; Kunzle, Franz Martin; and Russel, Jeff Hamish, to Wander, A., Dr., S.A.11-Aminoalkylated dibenz[β]-1,4-oxazepines and debenzo-[β,f]-1,4-thiazepines. 3,478,056, 11-11-69, Cl. 260-327.

Schnabel, Adolph. Manufacture of plasterboard from synthetic gypsum. 3,445,323, 5-20-69, Cl. 161-162.

Schnabel, Ernfred Peer Ottokar; and Stocker, Emil, to Geigy, J. R., A.G. Disazo pigments. 3,459,730, 8-5-69, Cl. 260-184.

Schnabel, Harry, Jr. Tunneling device. 3,459,452, 8-5-69, Cl. 299-31.

Schnabel, Herbert W., to Armour and Company. Scouring pad. 3,431,689, 3-11-69, Cl. 51-400.

Schnabel, Wilhelm J.: *See—*
Gavin, David F.; Kober, Ehrenfried H.; and Schnabel, Wilhelm J.,3,450,740.

Schnabel, Wilhelm J.; Kober, Ehrenfried H.; and Gardner, Srong K., to Olin Mathieson Chemical Corporation. Palladium carbonyl halide and methods for its preparation. 3,438,750, 4-15-69, Cl. 23-367.

Schnabel, Wilhelm J.; and Larchar, Trescott B., Sr., to Olin Mathieson Chemical Corporation. Tetrachloro-alkyl-cyclohexenediones. 3,445,486, 5-20-69, Cl. 260-396.

Schnacke, Arthur W., to General Electric Company. Multiple circuit heat transfer device. 3,450,195, 6-17-69, Cl. 165-47.

Schnaidt, Harold L. Row-follower. 3,460,323, 8-12-69, Cl. 56-11.

Schnall, Guenther, to Agfa-Gevaert Aktiengesellschaft. Rotary press with transfer roller interrupter. 3,443,516, 5-13-69, Cl. 101-218.

Schnapper, Melvin: *See—*
Cresswell, Ronald M.; and Schnapper, Melvin,3,487,083.

Schnatter, William P.: *See—*
Chinn, George M.; Schnatter, William P.; and Watson, Henry F.,3,431,820.

Schnebelen, David F.; Young, Warren L.; Blanchard, Robert R.; and Graham, Glen H., to Dow Chemical Company, The. Polymers of vinyl chloride blended with chlorinated polymers. 3,467,732, 9-16-69, Cl. 260-897.

Schneble, Frederick W., Jr.; McCormack, John; and Zeblisky, Rudolph J., to Photocircuits Corporation. Electroless gold plating. 3,468,676, 9-23-69, Cl. 106-1.

Schneble, Frederick W., Jr.: *See—*
McCormack, John F.; and Schneble, Frederick W., Jr.,3,443,988.
Zeblisky, Rudolph J.; Schneble, Frederick W., Jr.; and McCormack, John F.,3,485,643.

Schneck, Martin, to Thomas & Betts Corporation. Controlled impedance connector. 3,482,201, 12-2-69, Cl. 339-14.

Schneckenburger, Emil; and Thalman, Armin, to Aktiengesellschaft der Von Moos'schen Eisenwerke. Method of forming continuously-cast metal strand into integral billets. 3,483,915, 12-16-69, Cl. 164-76.

Schnee, Walter: *See—*
Remensperger, Franz; Cramer, Max; and Schnee, Walter,3,451,569.

Schneebeli, Jean Pierre: *See—*
Boissevain, Mathew G.; and Schneebeli, Jean Pierre,3,446,016.

Schneeberger, Donald R.; and Seaberg, Leonard J., to Eastman Kodak Company. Strip retrieval device. 3,476,472, 11-4-69, Cl. 353-26.

Schneeberger, Fritz: *See—*
Zweifel, Walter; Schneeberger, Fritz; and Marquetant, Alfred,3,425,918.

Schnegg, Robert; Pelousek, Herbert; Dippelhofer, Robert; Nordt, Herbert; and Dortmann, Heinz-Adolf, to Farbenfabriken Bayer Aktiengesellschaft. Fiber, filament and foil forming polyether esters and a process for their production. 3,449,297, 6-10-69, Cl. 260-47.

Schneible, Claude B., Co.: *See—*
Lundy, Alvin S., 3,453,946.

Schneider, Abraham: *See—*
Duling, Irl N.; Schneider, Abraham; and Driscoll, Gary L.,3,467,627.

Schneider, Abraham. Sun Oil Company 1-Aminoethyldimethyladamantane. 3,450,761, 6-17-69, Cl. 260-563.

Schneider, Abraham, to Sun Oil Company. Dimethylethyladamantanol. 3,450,775, 6-17-69, Cl. 260-617.

Schneider, Abraham, to Sun Oil Company. Polyhalogenation of adamantane hydrocarbons. 3,485,880, 12-23-69, Cl. 260-648.

Schneider, Alfred: *See—*
Auzins, Raimunds; Sigman, Earl H.; and Schneider, Alfred,3,469,716.

Schneider, Alfred; Shunn, William F.; and Roeske, Paul W., to Holley Carburetor Company. Semiconductor ignition. 3,434,462, 3-25-69, Cl. 123-148.

Schneider,Arthur W., to Commercial Radio-Sound Corp. Power control apparatus. 3,434,040, 3-18-69, Cl. 323-74.

Schneider, Arthur, to Sulzer Brothers Limited. Shed-forming apparatus for a loom. 3,456,691, 7-22-69, Cl. 139-55.

Schneider, Arthur, to Sulzer Brothers Limited. Gripper shuttle. 3,472,286, 10-14-69, Cl. 139-125.

Schneider, Carl A. Conductivity measuring circuit utilizing conductivity cell as input resistance of an operational amplifier. 3,430,130, 2-25-69, Cl. 324-30.

Schneider, Carl H.: *See—*
Boiko, Marvin M.; and Schneider, Carl H.,3,424,688.

Schneider, Charles; and Lameyre, Felix Gervais, to La Telemecanique Electrique. Electrical instrumentation and switchgear panels. 3,470,422, 9-30-69, Cl. 317-120.

Schneider, Cyril B., to E & M Laboratories. Ferrite waveguide device having magnetic return path within the waveguide. 3,445,790, 5-20-69, Cl. 333-24.1

Schneider, Cyril J.: *See—*
Steiner, Daniel J.; and Schneider, Cyril J.,3,475,998.

Schneider, Edward B.; and Lindell, Melvin E., to Litton Systems, Inc. Method of electroplating and electroforming gold in an ultrasonic field. 3,427,231, 2-11-69, Cl. 204-3.

Schneider, Eric J.; and Saville, Peter A., to Hyprez Electrometallics Corporation. Abrasive cutting tools. 3,436,871, 4-8-69, Cl. 51-204.

Schneider, Ervin J. Fast acting fluid responsive valve. 3,467,127, 9-16-69, Cl. 137-117.

Schneider, Eugen; and Wegener, Erich. Process for the manufacture of white quartz powder. 3,437,501, 4-8-69, Cl. 106-288.

Schneider, Frank L. Regeneration of ion-exchange media. 3,484,188, 12-16-69, Cl. 23-1.

Schneider, Franklin R. Rotary internal combustion engine. 3,447,513, 6-3-69, Cl. 123-16.

Schneider, Franklin R., to Modern Industries, Incorporated. Vehicular remote power unit. 3,456,119, 7-15-69, Cl. 290-1.

Schneider, Franklin R., to Modern Industries Incorporated. Vehicular remote power unit. 3,471,706, 10-7-69, Cl. 307-10.

Schneider, Franz P., to Jolly Toys, Inc. Doll with walker. 3,453,772, 7-8-69, Cl. 46-102.

Schneider, Franz, to Phaff, G.M., A.G. Stopping mechanism for sewing machines. 3,431,874, 3-11-69, Cl. 112-219.

Schneider, Fred J., to Western Electric Company, Incorporated. Bonding beam-leaded devices to substrates. 3,452,917, 7-1-69, Cl. 228-49.

Schneider, Fred J., to Western Electric Company, Incorporated. Apparatus for assembling articles. 3,477,630, 11-11-69, Cl. 228-6.

Schneider, Fred W.; and Morris, Willard E., to Lockwood Corporation, mesne. Air suction separator for harvesters. 3,442,379, 5-6-69, Cl. 209-137.

Schneider, Friedrich August, to International Nickel Company, Inc., The. Method for producing nickel accumulator plates. 3,455,741, 7-15-69, Cl. 136-76.

Schneider, Friedrich August, to Technische Hogeschool Eindhoven (Technical University Eindhoven). High temperature fuel cell. 3,462,306, 8-19-69, Cl. 136-86.

Schneider, Fritz, to Niederrheinische Maschinenfabrik Becker & van Hullen. Device for compensating the weight of the heating plates in multistage presses with simultaneous closing mechanism. 3,468,243, 9-23-69, Cl. 100-200.

Schneider, George W., Jr., to American Meter Company, mesne. Rotary meter, direct drive. 3,448,615, 6-10-69, Cl. 73-261.

Schneider, Gerard: *See—*
Berthoux, Jean; Quillet, Jean-Pierre; and Schneider, Gerard,3,436,181.

Schneider, Gerhard O. K., to Stromberg-Carlson Corporation. Revertive call circuit. 3,461,246, 8-12-69, Cl. 179-17.

Schneider, Gerhard O. K.: *See—*
Jorgensen, Adam A.; Lee, Ernest O., Jr.; Neumeier, Guenther F.; and Schneider, Gerhard O. K.,3,485,956.
Pearce, James G.; Pharis, William W.; and Schneider, Gerhard O. K.,3,487,170.

Schneider, Gerhart: *See—*
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart,3,452,076.
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst,3,476,545.
Mohr, Gunther; Niethammer, Konrad; Lust, Sigmund; and Schneider, Gerhart,3,468,895.
Schneider, Hans-Dieter, to Fernseh G.m.b.H. Television cathode ray tube apparatus. 3,443,147, 5-6-69, Cl. 315-27.
Schneider, Hans-Dieter: *See—*
Bachmann, Horst; Schneider, Hans-Dieter; and Sennhenn, Emil,3,435,136.
Schneider, Hans, to Sulzer Brothers Limited. Process of protecting castings made of carbon- containing alloys against decarburization at the edges and against surface defects. 3,470,937, 10-7-69, Cl. 164-138.
Schneider, Hellmut: *See—*
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef,3,484,789.
Schneider, Helmuth G.; and McNamara, Thomas P., to Esso Research and Engineering Company. Preparation of metal dialkyl dithiophosphates. 3,426,054, 2-4-69, Cl. 260-429.9
Schneider, Herbert A., to Bell Telephone Laboratories, Incorporated. Digital automatic frequency control system. 3,456,196, 7-15-69, Cl. 325-329.
Schneider, Horst, to Hooker Chemical Corporation. Composition and process for metal forming. 3,454,495, 7-8-69, Cl. 252-21.
Schneider, Horst, to Windmoller & Holscher. Apparatus for a stoppage-free processing of webs or for a stoppage-free processing or handling of workpieces. 3,459,950, 8-5-69, Cl. 250-223.
Schneider, Jack M., to Calmec (Manufacturing) Limited. Apparatus for moulding articles from plastic material. 3,456,296, 7-22-6, Cl. 18-19.
Schneider, Jack W.: *See—*
Schneider, Kurt P., 3,443,524.
Schneider, Jean-Claude, to Fabrique d'Horlogerie chs. Tissot et Fils S.A., Le Locle. Automatic alarm mechanism for timepiece. 3,460,339, 8-12-69, Cl. 58-17.
Schneider, Jean Claude, to Fabrique d'horlogerie Chs. Tissot et fils S.A. Bell hammer driving device for alarm mechanism. 3,473,507, 10-21-69, Cl. 116-149.
Schneider, Joachim: *See—*
Schwarz, Hans Helmut; Morgenstern, Karl; Schneider, Joachim; and Schnell, Hermann,3,423,460.
Schneider, Johannes; and Pungs, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Manufacture of highly transparent sheets from amorphous polyamides. 3,449,299, 6-10-69, Cl. 260-78.
Schneider, John C. Fluid-tight shaft seal assembly. 3,433,540, 3-18-69, Cl. 308-36.1
Schneider, John R.: *See—*
McLean, John O.; and Schneider, John R.,3,478,874.
Schneider, John R., to De Laval Turbine Inc. Method and apparatus for separation of oil from aqueous liquids. 3,457,169, 7-22-69, Cl. 210-23.
Schneider, John R. Automatic control for chlorine feed. 3,464,555, 9-2-69, Cl. 210-85.
Schneider, Jos., & Co.: *See—*
Genahr, Rudolf, 3,430,057.
Genahr, Rudolf; and Schwab, Erich, 3,461,304.
Himmelsbach, Paul, 3,480,349.
Holderbaum, Karl-Heinz, 3,466,994.
Macher, Karl, 3,442,573.
Macher, Karl, 3,486,809.
Raab, Karl Heinz, 3,451,325.
Wagner, Werner, 3,472,576.
Werner, Franz, 3,466,728.
Werner, Kurt, 3,442,576.
Woltche, Walter, 3,485,549.
Schneider, Jos., & Co. Optische Werke: *See—*
Fickler, Hans-Heinrich, 3,482,510.
Genahr, Rudolf, 3,457,000.
Macher, Karl, 3,451,743.
Thomas, Otto, 3,482,500.
Wagner, Werner, 3,482,900.
Schneider, Jos., Feinwerktechnik, GmbH: *See—*
Schwab, Erich, 3,436,757.
Schneider, Joseph L. Contraceptive device and insertion device and removal. 3,441,018, 4-29-69, Cl. 128-130.
Schneider, Joseph R.; Sharp, James K.; and Vaher, Eo, to Sperry Rand Corporation. Laser device having multiple cavities that share a common active lasing material. 3,482,184, 12-2-69, Cl. 331-94.5
Schneider, Joseph. Block or brick laying guide. 3,422,539, 1-21-69, Cl. 33-85.
Schneider, Joseph, to Manufacture Belge d'Aiguilles S.A. Container for packing needles. 3,469,687, 9-30-69, Cl. 206-66.
Schneider, Julius. Arrangement for controlling the mold width in a type casting machine. 3,462,005, 8-19-69, Cl. 199-73.
Schneider, Karl, to Harnischfeger Corporation. Front to rear loader. 3,463,338, 8-26-69, Cl. 214-504.
Schneider, Kenneth E.: *See—*
Durst, George; and Schneider, Kenneth E.,3,454,445.
Schneider, Kurt H.: *See—*
Ackerman, Abram; and Schneider, Kurt H.,3,446,981.
Schneider, Kurt P., 1/3 to Schneider, Jack W. Rapid transit system. 3,443,524, 5-13-69, Cl. 104-23.
Schneider, Kurt Rudolf. Spring-supported belt conveyor. 3,446,330, 5-27-69, Cl. 198-117.
Schneider, Kurt; Pasedach, Heinrich; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-hydroxy-2,3-dihydrocitral. 3,446,851, 5-27-69, Cl. 260-602.
Schneider, Lukas: *See—*
Auerbach, Guenther; Schneider, Lukas; and Wehrli, Walter,3,422,084.
Schneider, Lukas, to Sandoz Ltd., (also known as Sandoz A.G.). Sulphonaphthalene-azo-1-aryl-5-pyrazolone dyestuffs containing a Di- or trihalopyrimidyl or a mono or dihalotriazinyl radical. 3,462,410, 8-19-69, Cl. 260-153.
Schneider, Lukas, to Sandoz Ltd., a/k/a Sandoz A.G. Metallized reactive naphtholazo naphthol dyestuffs containing a polyhalogenated pyrimidine group. 3,484,431, 12-16-69, Cl. 260-146.
Schneider, Martin E., to Televiso Electronics, Division of Doughboy Industries, Inc. Merchandise release control for a coin vending machine. 3,451,518, 6-24-69, Cl. 194-2.
Schneider, Martin V., to Bell Telephone Laboratories, Incorporated. Thermoelectric detector using a series- connected thermopile. 3,421,081, 1-7-69, Cl. 324-95.
Schneider, Martin V., to Bell Telephone Laboratories, Incorporated. Optical energy conversion devices. 3,475,609, 10-28-69, Cl. 250-199.
Schneider Metal Manufacturing Co.: *See—*
Leeson, Meldon Gerald; and Esser, Harold H., 3,423,949.
Schneider, Nicholas M.: *See—*
Cashman, Edward P.; and Schneider, Nicholas M.,3,458,274.
Schneider, Othmar: *See—*
Wick, Richard; Kohler, Roland; and Schneider, Othmar,3,454,336.
Schneider, Otto: *See—*
Hendricks, Udo Winfried; Tamer, Ergun; Quaedvlieg, Mathieu; Klapper, Hans; Boehmke, Gunther; and Schneider, Otto,3,451,762.
Schneider, Paul: *See—*
Cremer, Gottfried; Behrens, Heinz; and Schneider, Paul,3,485,900.
Schneider, Paul, to Pfizer, Chas., & Co., Inc. Diagnostic method for determination of vanilmandelic acid in urine. 3,482,942, 12-9-69, Cl. 23-230.
Schneider, Paul; and Scherhag, Bernhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for the stabilization of acrylonitrile. 3,428,666, 2-18-69, Cl. 260-465.
Schneider Radio-Television: *See—*
Birnbaum, Martin, 3,436,682.
Schneider, Richard C.; and Gooding, Elwyn R. Impact absorbing protective headgear. 3,462,763, 8-26-69, Cl. 2-3.
Schneider, Richard C.: *See—*
Stoner, Arthur M.; Schneider, Richard C.; and Paquin, Roger L.,3,434,302.
Schneider, Richard R., to Dresser Industries, Inc. Rotary kiln construction. 3,425,674, 2-4-69, Cl. 263-33.
Schneider, Rudolf, to Du Pont de Nemours, E. I., and Company. Process for making photographic films. 3,454,424, 7-8-69, Cl. 117-145.
Schneider, Rudolf; Bottenbruch, Ludwig; Court, Otto; Damsky, Walter; Spott, Georg; and Lippert, Axel, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for mixing and homogenizing viscous liquids. 3,427,003, 2-11-69, Cl. 259-9.
Schneider, Rudolf; and Meiners, Jochen, to Schering A.G. Curing agents for polyepoxides. 3,474,056, 10-21-69, Cl. 260-18.
Schneider, Rudolf: *See—*
Hermann, Karl-Heinz; Schnell, Hermann; Schneider, Rudolf; and Spott, Georg,3,447,583.
Schneider, Sidney; and Katz, Harry, to Miracle Dental Products, Inc. Article and method for forming a denture. 3,460,252, 8-12-69, Cl. 32-2.
Schneider, Stanley; and Ferrell, Robert L., to Beckman Instruments, Inc. Multiposition rotary switch. 3,470,333, 9-30-69, Cl. 200-11.
Schneider, Walter F.: *See—*
Hemprich, Horst J.; Schneider, Walter F.; Spiro, Hans W.; and Zehr, Joachim O.,3,479,583.
Schneider, Walter; Reincke, Joachim; Blumenthal, Reinhard; Tschatzki, Lothar; and Kagelmann, Manfred. Depth-control device for soil-working implements. 3,470,963, 10-7-69, Cl. 172-7.
Schneider, Werner: *See—*
Knobloch, Peter; Kuhn, Adalbert; Pfannenschmidt, Otto; and Schneider, Werner,3,435,534.
Schneider, William C.: *See—*
Busen, Karl; Lindmayer, Joseph; Schneider, William C.; and Tsang, Wei K.,3,443,174.
Schneider, William G.: *See—*
Helfrich, Wolfgang; and Schneider, William G.,3,457,153.

Schneider, William P.: *See*—
Birkenmeyer, Robert D.; Kagan, Fred; Magerlein, Barney J.; and Schneider, William P.,3,461,207.
Schneider, William P., to Upjohn Company, The. Steroidal 21-pyrazoles and process therefor. 3,424,746, 1-28-69, Cl. 260-239.5
Pike, John E.; and Schneider, William P.,3,436,388.
Schneider, William S.; and Corella, Arthur P., 25% to Rodgers, Wayne, V., and 10% to Scheider, Carl. Packaging machine of the form-and-fill type. 3,432,986, 3-18-69, Cl. 53-179.
Schneider, Wilma J.: *See*—
Gast, Lyle E.; and Schneider, Wilma J.,3,485,779.
Schneider, Wolfgang, to Goodrich, B. F., Company, The. Preparation of cis-1,4-dienes. 3,441,627, 4-29-69, Cl. 260-680.
Schneider, Wolfgang, to Goodrich, B. F., Company, The. Process for dimerization of olefins. 3,452,115, 6-24-69, Cl. 260-683.15
Schneiderman, Alvin R.: *See*—
Fields, Irving; Schneiderman, Alvin R.; and Tiffany, Harry R., III,3,443,782.
Schnell, Ernst Emil; and Carolan, Donald Leo, to Deere & Company. Cover assembly for a clean-out opening in a fertilizer hopper. 3,470,994, 10-7-69, Cl. 198-1.
Schnell, Ernst Emil: *See*—
Ten Pas, Warren Edward; Schnell, Ernst Emil; and Polzin, Donald Herman,3,432,064.
Schnell, Hermann: *See*—
Bottenbruch, Ludwig; and Schnell, Hermann,3,468,846.
Bottenbruch, Ludwig; Lotter, Hans-Georg; and Schnell, Hermann,3,437,638.
Bottenbruch, Ludwig; Wulff, Claus; and Schnell, Hermann,3,445,428.
Curtius, Ulrich; and Schnell, Hermann,3,442,854.
Dhein, Rolf; Raichle, Karl; and Schnell, Hermann,3,434,987.
Hermann, Karl-Heinz; Schnell, Hermann; Schneider, Rudolf; and Spott, Georg,3,447,583.
Krimm, Heinrich; and Schnell, Hermann,3,458,475.
Schnell, Hermann; Bottenbruch, Ludwig; and Michael, Dietrich, to Farbenfabriken Bayer Aktiengesellschaft. Modified polycarbonates containing urethane groups. 3,450,793, 6-17-69, Cl. 260-858.
Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebnauer, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Aqueous lacquers. 3,477,977, 11-11-69, Cl. 260-22.
Schnell, Hermann; and Schwarz, Hans Helmut, to Farbenfabriken Bayer Aktiengesellschaft. Resin recovery system. 3,427,370, 2-11-69, Cl. 264-37.
Nentwig, Joachim; Schnell, Hermann; Dhein, Rolf; Raichle, Karl; and Gebauer, Herbert,3,437,616.
Rellensmann, Wolfgang; Von Falkai, Bela; Reichle, Alfred; and Schnell, Hermann,3,454,526.
Rudolph, Hans; Heller, Karl-Heinz; and Schnell, Hermann,3,450,612.
Schwarz, Hans Helmut; Morgenstern, Karl; Schneider, Joachim; and Schnell, Hermann,3,423,460.
Wulff, Claus; Schnell, Hermann; and Bottenbruch, Ludwig,3,422,065.
Schnell, Joseph P. Life guard chest waders. 3,465,375, 9-9-69, Cl. 9-343.
Schnell, Ludwig. Apparatus for conveying sand or the like. 3,474,549, 10-28-69, Cl. 37-61.
Schnell, Solomon S.: *See*—
Arkel, Peter; and Schnell, Solomon S.,3,422,316.
Schneller, Heinz: *See*—
Gehring, Albert; Schneller, Heinz; Fueg, Heinz; Haberthur, Kurt; and Matsuya, Koichi,3,484,214.
Schnellpressenfabrik Kocnig & Bauer Aktiengesellschaft: *See*—
Bolza-Schunemann, Hans B.; and Germann, Albrecht, 3,452,672.
Schaeffer, Karl, 3,481,270.
Wolfram, Karl-Heinz, 3,424,019.
Schnepel, Lawrence S. Torque wrench. 3,472,083, 10-14-69, Cl. 74-801.
Schnepf, Robert W.: *See*—
Jahnig, Charles E.; and Schnepf, Robert W.,3,431,197.
Schnepfe, Robert W., Jr.: *See*—
Hebert, John R.; La Costa, Nicholas J.; and Schnepfe, Robert W., Jr.,3,437,245.
Schnepfe, Robert W, Jr., to AAI Corporation. Variable combustible delay arrangement. 3,439,614, 4-22-69, Cl. 102-64.
Schnepp, Bradley A., to Brown Machine Company of Michigan, Inc. Helical groove finishing device. 3,461,613, 8-19-69, Cl. 51-50.
Schnerb, Isaac: *See*—
Bloch, Moshe Rudolf; Schnerb, Isaac; and Kenat, Joachim,3,484,198.
Schnettler, Jerome L., to Milwaukee Electric Tool Corporation. Power saw with mitering attachment. 3,454,055, 7-8-69, Cl. 143-6.
Schnettler, Richard A.; and Suh, John T., to Colgate-Palmolive Company. β[α'-(1''-1'''-trimethyleneferrocenyl ,]-1,1'-trimethyleneferrocenes. 3,420,863, 1-7-69, Cl. 260-439.
Schnider, Albert E., to Inventa AG. fur Forschung und Patentverwertung. Process for the production of cyclodecanol- (6)-one(1). 3,429,927, 2-25-69, Cl. 260-586.
Schnitta, Antal: *See*—
Gaspar, Istvan; and Schnitta, Antal,3,451,975.
Schnittker, Werner: *See*—
Dreyer, Siegfried; Harde, Rudolf; Jansing, Walter; Kalkoffen, Friedel; Mausbeck, Hans; and Schnittker, Werner,3,438,431.
Schnittker, William E., to Alco Valve Company. Three-way solenoid valve. 3,444,895, 5-20-69, Cl. 137-625.65
Schnitz, Ples E. Blow gun and missile toy having folding wings. 3,433,210, 3-18-69, Cl. 124-12.
Schnitzspahn, Emil, to Midland-Ross Corporation. Film winding apparatus. 3,433,429, 3-18-69, Cl. 242-65.
Schnizer, Arthur W.; and Wheeler, Edward N., to Celanese Corporation. Condensation of acrylic acid. 3,462,484, 8-19-69, Cl. 260-526.
Schnizler, Karl Albrecht; and Kuhl, Hans, to Metabowerke KG, Rauch & Schnizler. Device for tensioning abrasive belts or the like. 3,483,661, 12-16-69, Cl. 51-148.
Schnock, Gunter: *See*—
Forster, Paul Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunter,3,480,586.
Schnock, Gunther: *See*—
Forster, Paul-Friedrich; Kurzke, Herbert; Sattler, Helmut; and Schnock, Gunther,3,446,772.
Schnopper, Herbert W.: *See*—
Das Gupta, Kamalaksha; Schnopper, Herbert W.; and Metzger, Albert E.,3,440,419.
Schnoring, Hildegard; Classe, Willy; Pampus, Gottfried; Schon, Nikolaus; and Witte, Josef, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for separating polymers from their solutions. 3,450,184, 6-17-69, Cl. 159-16.
Schnorr, William J.: *See*—
Svendsen, Konrad S.; and Schnorr, William J.,3,464,293.
Schnur, Martin; and Appel, Mel, to Deka Plastics, Inc. Utensil tray. 3,428,381, 2-18-69, Cl. 312-107.
Schnuriger, Jean Claude, to CSF-Compagnie Generale de Telegraphie Sans Fil. Particle accelerator having tunable high frequency power supply. 3,426,231, 2-4-69, Cl. 313-62.
Schnurmacher, Gerald L. Engine exhaust system and control. 3,462,946, 8-26-69, Cl. 60-30.
Schnurrbusch, Karl; Steinbach, Hans-Horst; and Weiden, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Cross-linking agent for methyl-hydrogen siloxane impregnating compositions. 3,458,333, 7-29-69, Cl. 106-287.
Schnyder, Adrien: *See*—
De Senepart, Jules-Odon, 3,422,822.
Schober, Erwin: *See*—
Planitzer, Erich; Maus, Eicke; Multerer, Albert; Schober, Erwin; and Schindler, Werner,3,446,112.
Schober, Franz, to Bayerisches Leichtmetallwerk Graf Blucher von Wahlstatt K.G. Method of armoring valve cones by electric welding. 3,453,409, 7-1-69, Cl. 219-76.
Schober, Horst A.: *See*—
Hoppmann, Kurt H.; and Schober, Horst A.,3,486,818.
Schober, Robert H. Apparatus for carrying out exothermic catalytic gas reactions. 3,472,631, 10-14-69, Cl. 23-289.
Schober, Wayne E.: *See*—
Beville, Ross H.; and Schober, Wayne E.,3,425,609.
Pietenpol, Kermit W.; and Schober, Wayne E.,3,431,543.
Schoch, Ernst, Aktiengesellschaft: *See*—
Schoch, Hans; and Gaggini, Carlo, 3,426,810.
Schoch, Hans, 3,460,588.
Schoch, Hans, to Schoch, Ernst, Aktiengesellschaft. Feed device for a machine producing reinforcement wire nettings. 3,460,588, 8-12-69, Cl. 140-113.
Schoch, Hans; and Gaggini, Carlo, to Schoch, Ernst, Aktiengesellschaft. Method of producing a grid reinforcement for concrete. 3,426,810, 2-11-69, Cl. 140-93.
Schoch, Karl F.: *See*—
Buchhold, Theodor A.; Nesbitt, Loyd B.; and Schoch, Karl F.,3,429,368.
Schoch, Karl F., to General Electric Company. Superconducting liquid helium pump. 3,422,765, 1-21-69, Cl. 103-53.
Schoch, Thomas J.; Stella, Donald F.; and Wolfmeyer, Howard J., to Corn Products Company. Congealed confections. 3,446,628, 5-27-69, Cl. 99-134.
Schock, Hermann. Safety belt. 3,450,434, 6-17-69, Cl. 297-385.
Schockelt, Guenther G., to S & C Electric Company. Current sensor and short circuiting means therefor. 3,425,017, 1-28-69, Cl. 337-17.
Schoeffel, Eugene Wilhelm; and Zimmermann, Frederick John, to Sterling Drug, Inc. Oxidation and reclamation process. 3,442,798, 5-6-69, Cl. 210-40.
Schoeffler, Paul W.: *See*—
Arnold, Alanson J.; McKeough, Elmer L.; Ripple, William M.; Schoeffler, Paul W.; and Smith, Herbert J.,3,448,497.
Schoeller, Alexander, & Co., Firma, Flaschenkastenwerk: *See*—
Schoeller, Alexander, 3,428,206.
Schoeller, Alexander, 3,432,063.

Schoeller, Alexander, to Schoeller, Alexander, & Co., Firma, Flaschenkastenwerk. Bottle crate of synthetic material. 3,428,206, 2-18o69, Cl. 220-21.
Schoeller, Alexander. Low bottle crates of synthetic material. 3,428,207, 2-18-69, Cl. 220-21.
Schoeller, Alexander, to Schoeller, Alexander, & Co., Firma, Flaschenkastenwerk. Bottle crate of synthetic material. 3,432,063, 3-11-69, Cl. 220-21.
Schoeller-Bleckmann Stahlwerke Aktiengesellschaft, Firma: *See*—
Kohl, Heinz; and Souresny, Herbert, 3,476,555.
Schoen, Donald W.: *See*—
Grassel, Eugene E.; and Schoen, Donald W.,3,429,335.
Schoen, John J., to Xerox Corporation. Illumination control system. 3,438,704, 4-15-69, Cl. 355-8.
Schoen, Karl; and Pachter, Irwin J., to Endo Laboratories Inc. Compositions and methods for producing sedation and tranquilization with substituted 4,5,6,7-tetrahydro -4-oxindoles. 3,467,755, 9-16-69, Cl. 424-274.
Schoen, Walter F.; and Voelz, Fred L., to Sinclair Research, Inc. Gasoline fuel composition. 3,481,718, 12-2-69, Cl. 44-69.
Schoen, Walter F.: *See*—
Mrstik, Adolph V.; Schoen, Walter F.; and Voelz, Frederick L.,3,481,716.
Voelz, Frederick L.; and Schoen, Walter F.,3,481,717.
Schoenbaum, Alexander W.; Ashworth, John T.; and Brooks, John G., to American Tobacco Company, The. Production of reconstituted tobacco. 3,428,053, 2-18-69, Cl. 131-140.
Schoenbaum, George H.: *See*—
Roediger, Joseph C.; Tompkins, Eugene E.; and Schoenbaum, George H.,3,427,172.
Schoenbeck, Melvin Albert, to Du Pont de Nemours, E. I., and Company. Continuous vulcanization of elastomeric materials. 3,475,397, 10-28-69, Cl. 260-92.3
Schoenberg, Emanuel, to Goodyear Tire & Rubber Company, The. Preparation of polymerization catalyst. 3,462,405, 8-19-69, Cl. 260-94.3
Schoenberg, Jules E.: *See*—
Schrage, Albert; and Schoenberg, Jules E.,3,470,143.
Schoenberger, Philip J. Coin holder. 3,448,851, 6-10-69, Cl. 206-0.81
Schoenblum,Ervin: *See*—
Doniger, Jerry; Schoenblum,Ervin; and Feintuch, Martin W.,3,447,765.
Schoenecker, Thomas J.; and Olson, Robert L., to Union Tank Car Company. Injector assembly. 3,424,100, 1-28-69, Cl. 103-262.
Schoeneman, J., Incorporated: *See*—
McPherson, Edwin M., 3,465,671.
Wright, J. Norman, 3,470,780.
Schoeneman, Robert E., to Potter Instrument Company, Inc. Incremental stepper for tape transports. 3,465,349, 9-2-69, Cl. 346-74.
Schoeneman, Rogert E., to Potter Instrument Company, Inc. Digital magnetic tape recording system. 3,454,930, 7-8-69, Cl. 340-172.5
Schoener, Harry: *See*—
Gobhai, Cavas M.; Chopra, Amarjit; and Schoener, Harry,3,425,372.
Schoenewaldt, Erwin F., to Merck & Co., Inc.Trialkyl-silyl ethers of N-carboxy anhydrides of monohydroxy α-amino acids and processes for preparing them. 3,435,046, 3-25-69, Cl. 260-307.
Schoenewaldt, Erwin F.: *See*—
Paleveda, William J., Jr.; and Schoenewaldt, Erwin F.,3,452,096.
Schoenfeld, Jack R.: *See*—
Stine, Laurence O.; Schoenfeld, Jack R.; and Lengemann, Robert A.,3,472,758.
Schoenfeld, William C. Article dispenser having an inclined bottom ramp and a front wall article outlet opening. 3,450,308, 6-17-69, Cl. 221-305.
Schoenfield, Palmer J.: *See*—
Glass, Marvin I.; and Schoenfield, Palmer J.,3,471,965.
Schoenherr, Henry W.: *See*—
Solberg, Conrad J.; Hille, Lawrence S.; Schoenherr, Henry W.; and Solstad, Russell V.,3,449,828.
Schoening, Werner Peter, to Griffolyn Company, Inc. Collapsible receptacle for large quantities. 3,480,059, 11-25-69, Cl. 150-48.
Schoenlaub, Robert A., to Harrop Ceramic Service Company. Furnace apparatus with a series of hearths. 3,433,468, 3-18-69, Cl. 263-21.
Schoenmann, Jakob: *See*—
Fecher, Friedrich; Schoenmann, Jakob; and Rosewicz, Horst,3,461,017.
Schoenthal, Alan F., to Xerox Corporation. Exposure registration apparatus. 3,473,455, 10-21-69, Cl. 95-12.
Schoenthaler, David, to Western Electric Company, Incorporated. Bonding leads to quartz crystals. 3,461,542, 8-19-69, Cl. 29-470.1
Schoenwitz, Frank H. W., to Honeywell Inc. Alarm printer. 3,466,605, 9-9-69, Cl. 340-151.
Schoepe, Adolf: *See*—
Hodgson, James E., 3,485,676.
Schoepe, Adolf; and Klentz, Harley N., said Klentz assor to said Schoepe. Interchangeable wheel suspension system in a four wheel drive vehicle. 3,476,200, 11-4-69, Cl. 180-44.
Schoepe, Adolf; and Schmuck, Fredric E. Ball cock float. 3,428,966, 2-25-69, Cl. 4-56.
Schoepe, Adolf; and Schmuck, Fredric E. Ball cock. 3,429,333, 2-25-69, Cl. 137-315.
Schoeppner, Karl P. Blade combination for machines for chipping and shaving solid materials. 3,454,234, 7-8-69, Cl. 241-294.
Schoerner, Roger J.; and Rowland, Bobby A., to Southwire Company. Method of forming a multi-strand cable. 3,444,684, 5-20-69, Cl. 57-161.
Schoettle, Volkmar: *See*—
Jennings, Harley Y., Jr.; and Schoettle, Volkmar,3,483,737.
Schoewert, Louis Christiaan, to N.V. tot Aanneming van Werken voorheen H. J. Nederhorst. Template adapted for use in producing a concrete wall. 3,464,665, 9-2-69, Cl. 249-10.
Schoffer, Nicolas. Relaxation inducing apparatus. 3,470,870, 10-7-69, Cl. 128-1.
Schoffmann, Rudolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Device for shaping metal bars. 3,477,268, 11-11-69, Cl. 72-234.
Schofield, Clifford Raymond, to English Electric Company Limited, The. Variable-ratio frictional drive gears. 3,455,177, 7-15-69, Cl. 74-200.
Schokbeton Products Corporation: *See*—
Santry, George J., 3,475,265.
Schoko-Buck G.m.b.H: *See*—
Greiner, Rolf, 3,444,982.
Greiner, Rolf, 3,450,247.
Scholander, Axel Fredrik; and Brannland, Rolf Karl August, to Mo Och Domsjo Aktiebolag. Process for the preparation of an alkali metal chlorate solution for use in a chlorine dioxide generation process. 3,427,236, 2-11-69, Cl. 204-95.
Scholderer, Jorg: *See*—
Roscher, Gunter; Gunther, Klaus; Probst, Otto; and Scholderer, Jorg,3,438,870.
Scholemann Aktiengesellschaft: *See*—
Schroder, Egbert, 3,460,777.
Scholer, Hendrik Frederik Louis: *See*—
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,422,122.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,437,675.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,445,489.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,476,782.
Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,468,917.
Scholer, Henry G., to Bendix Corporation, The. Method of manufacturing semiconductor devices. 3,444,614, 5-20-69, Cl. 29-588.
Scholer, Horst; and Herda, Klaus, to VEB Carl Zeiss Jena. Stereoscopic observation devices. 3,464,759, 9-2-69, Cl. 350-36.
Scholer, Magne Fredslund, to Danfoss A/S. Bistable semiconductor switching device. 3,469,154, 9-23-69, Cl. 317-234.
Scholermann, Walter: *See*—
Wirth, Wolf-Dieter; Knupfer, Hans; Schellhammer, Carl-Wolfgang; Schonol, Karl; and Scholermann, Walter,3,420,835.
Scholes, Addison B.; and Pickard, John E., to Ball Brothers Company, Incorporated. Glass having dual protective coatings thereon and a method for forming such coatings. 3,420,693, 1-7-69, Cl. 117-72.
Scholfield, Richard P.: *See*—
Raub, Edward L., Sr.; Raub, Edward L., Jr.; and Scholfield, Richard P.,3,474,557.
Scholin, Harold W.; and Pedersen, Holger, to World Golf Industries, Inc., mesne. Practice putting apparatus. 3,467,389, 9-16-69, Cl. 273-179.
Scholl, Gunter. High-capacity air-cooled heat exchanger. 3,430,691, 3-4-69, Cl. 165-122.
Scholl, Gunter. Thermosyphonic radiator. 3,435,892, 4-1-69, Cl. 165-131.
Scholl, Hans, to Kochs Adlernahmaschinen Werke AG. Device for the automatic manipulation of workpieces, in particular of textile blanks. 3,428,005, 2-18-69, Cl. 112-2.
Scholl, Hans; and Hagemayer, Gunther, to Kochs Adlernahmaschinen Werke A.G. Stencil control for production machines, such as sewing machines, by means of driven rollers. 3,434,370, 3-25-69, Cl. 74-569.
Scholl, Hans; and Heimann, Alfred, to Kochs Adlernahmaschinen Werke A.G. Sewing device with a double chain stitch sewing machine. 3,461,826, 8-19-69, Cl. 112-2.
Scholl, Hermann: *See*—
Babitzka, Rudolf; Baumann, Gunther; Hoelle, Hermann; and Scholl, Hermann,3,463,129.
Hoelle, Hermann; Kind, Wilhelm; and Scholl, Hermann,3,452,727.

Scholl, Hermann, to Bosch, Robert, G.m.b.H. Monostable multivibrator for producing pulse of long duration. 3,423,604, 1-21-69, Cl. 307-273.
Scholl, Hermann, to Bosch, Robert, G.m.b.H. Arrangement for controlling the injection of fuel in engines. 3,429,302, 2-25-69, Cl. 123-32.
Scholl, Hermann, to Bosch, Robert, G.m.b.H. Controller for fuel injection systems for internal combustion engines. 3,448,728, 6-10-69, Cl. 123-32.
Scholl, Hermann, to Bosch, Robert, GmbH. Impulse generator. 3,464,396, 9-2-69, Cl. 123-32.
Scholl, Hermann; Kadelbach, Volker; and Reichardt, Wolfgang, to Bosch, Robert, GmbH. Transmission gear changing control arrangement, particularly for motor vehicles. 3,439,564, 4-22-69, Cl. 74-866.
Scholl, Hermann; Rabus, Friedrich; Eichler, Dieter; Kadelbach, Volker; Reichardt, Wolfgang; and Schmidt, Peter Jurgen, to Bosch, Robert, GmbH. Electronic arrangement for shifting gears in motor vehicles. 3,433,101, 3-18-69, Cl. 74-866.
Reichardt, Wolfgang; Eichler, Dieter; Scholl, Hermann; and Wahl, Josef,3,463,130.
Scholl, James E., to United States of America, Navy. Application of shaped charge to earth anchor. 3,432,977, 3-18-69, Cl. 52-98.
Scholl, Jule A. Caliper. 3,447,244, 6-3-69, Cl. 33-147.
Scholl Mfg. Co., Inc., The: *See*—
Emerson, William D., 3,430,396.
Levitt, Milton R., 3,467,084.
Raffaelli, Milo L., Sr., 3,482,569.
Scholl, Rolland D., to Caterpillar Tractor Company. Thermal stabilizer for thermally sensitive components. 3,450,863, 6-17-69, Cl. 219-501.
Scholl, Rolland D.: *See*—
Page, Russell D.; Klingaman, Dean C.; Belke, William H.; Crayton, John W.; and Scholl, Rolland D.,3,486,564.
Scholle Container Corporation: *See*—
Scholle, William R., 3,427,646.
Scholle, William R., 3,443,728.
Scholle, William R., 3,472,269.
Scholle, William R., to Scholle Container Corporation. Container opening, filling and closing apparatus. 3,427,646, 2-11-69, Cl. 53-281.
Scholle, William R., to Scholle Container Corporation. Liquid dispensing device. 3,443,728, 5-13-69, Cl. 222-511.
Scholle, William R., to Scholle Container Corporation. Motor to valve stem connection with finger-like projections. 3,472,269, 10-14-69, Cl. 137-312.
Scholler, Jean-Pierre Alphonse, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Super-fast switching device, using either direct or rectified alternating current, more particularly applied for substituting one power source to another. 3,454,781, 7-8-69, Cl. 307-66.
Schollhammer, Frederick Richard, to United Aircraft Corporation. Apparatus for welding large pipes with a beam charged particles. 3,483,352, 12-9-69, Cl. 219-121.
Scholten's, W. A., Chemische Fabrieken N.V.:*See*—
Benninga, Harm, 3,467,647.
Vonk, Abraham, 3,484,287.
Scholtis, Walter: *See*—
Ploch, Siegfried; Scholtis, Walter; and Zschunke, Heinz,3,442,101.
Scholtus, Nicholas A. Device for pasteurizing soil. 3,443,885, 5-13-69, Cl. 21-94.
Scholtz, Arthur P., to National Can Corporation. Can. 3,429,475, 2-25-69, Cl. 220-29.
Scholven-Chemie Aktiengesellschaft: *See*—
Faltings, Volkert; and Ewers, Josef, 3,420,893.
Scholz, Frank, X-Ray Corporation: *See*—
Bartlett, James S., 3,473,025.
Scholz, Heinrich: *See*—
Hiller, Karl-Heinz; Kindler, Hubert; Scholz, Heinrich; and Strohmeyer, Max,3,444,255.
Scholz, Heinz: *See*—
Grimmeiss, Hermann Georg; and Scholz, Heinz,3,470,379.
Scholz, Horst: *See*—
Burger, Rudolf; and Scholz, Horst,3,460,275.
Scholz, Norbert, to M.A.N. Turbo G.m.b.H. Continuous low combustion engine. 3,462,948, 8-26-69, Cl. 60-39.02
Scholz, Raymond J.: *See*—
Southern, William C.; Wagner, Herbert M.; and Scholz, Raymond J.,3,466,000.
Scholz, Walter, to Werkzeugmaschinenfabrik Gildemeister & Comp., AG. Chuck operating device. 3,458,209, 7-29-69, Cl. 279-1.
Scholz, Werner, to Telefunken Patentverwertungsgesellschaft mbH. Transit time demodulator for phase quadrature modulated color signals. 3,446,913, 5-27-69, Cl. 178-5.4
Scholz, William A. Collapsible container. 3,448,914, 6-10-69, Cl. 229-15.
Scholze, Alfred O.: *See*—
Wistrand, John C.; and Scholze, Alfred O.,3,466,777.
Scholzel, Karl, to Werner Greutert. Storage battery having positive and negative electrode in direct contact. 3,433,671, 3-18-69, Cl. 136-6.
Scholzel, Karl, to Werner Greutert. Electrical battery. 3,433,672, 3-18-69, Cl. 136-6.
Scholzel, Karl, to Greutert, Werner. Production of storage batteries. 3,445,287, 5-20-69, Cl. 136-6.
Schomaker, Bill. Self-cleaning adjustable cultivator shield. 3,426,854, 2-11-69, Cl. 172-509.
Schomber, Veit, to Hellige, Fritz, & Co. G.m.b.H. Physiological volume-pressure diagram recording device. 3,480,006, 11-25-69, Cl. 128-2.08
Schomburg, John F.: *See*—
Radke, William A.; and Schomburg, John F.,3,432,669.
Schomburg, Willi: *See*—
Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst,3,483,373.
Wolff, Otto; Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst,3,474,246.
Schomer, Marion L.; and Weise, Irvin, to Anderson, Greenwood & Co. High pressure. 3,467,357, 9-16-69, Cl. 251-214.
Schomer, Raymond A., to General Motors Corporation. Step relay panel for automatically increasing the current flow to a welding gun. 3,445,621, 5-20-69, Cl. 219-111.
Schommer, Heinrich. Universal joint. 3,480,308, 11-25-69, Cl. 287-87.
Schon, Erich F. Horizontal coke ovens with controlled two stage heating and air admission. 3,431,177, 3-4-69, Cl. 202-135.
Schon, Erich F. Compound coke oven battery with controlled two stage heating and air admission. 3,431,178, 3-4-69, Cl. 202-135.
Schon, Erich F., to Otto Construction Corporation. Method of cleaning a stream of coke oven gas and apparatus therefor. 3,451,896, 6-24-69, Cl. 201-15.
Schon, Erich F., to Otto, C.& Company GmbH. Process and device for the separation of naphthalene from coke oven gas. 3,471,999, 10-14-69, Cl. 55-85.
Schon, Nikolaus: *See*—
Pampus, Gottfried; Witte, Josef; and Schon, Nikolaus,3,423,388.
Schon, Nikolaus; Witte, Josef; and Pampus, Gottfried, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of polymers of conjugated dienes. 3,476,735, 11-4-69, Cl. 260-94.7
Schnoring, Hildegard; Classe, Willy; Pampus, Gottfried; Schon, Nikolaus; and Witte, Josef,3,450,184.
Schonauer, George A. Passage former. 3,441,242, 4-29-69, Cl. 249-65.
Schonberg, Endre, to N.V. Euro-Grondstof. Method for the regeneration of water-resistant paper as well as a method for the manufacture of paper from the material obtained and the sheets and webs of paper thus obtained. 3,438,851, 4-15-69, Cl. 162-5.
Schonemeyer, Hilmar; and Kollermann, Norbert, to International Standard Electric Corporation. Test circuit for telephone switching network having common controls. 3,443,034, 5-6-69, Cl. 179-18.
Schonemeyer, Hilmar; and Siegel, Herbert, to International Standard Electric Corporation. Trunk hunting in central crosspoint arrangements controlled by markers. 3,472,969, 10-14-69, Cl. 179-18.
Schonemeyer, Hilmar: *See*—
Schluter, Heinz; and Schonemeyer, Hilmar,3,423,537.
Schonfeld, Arnold; and Jacoby, Marvin, to Sperry Rand Corporation. Pressure operated paper tape reader. 3,485,970, 12-23-69, Cl. 200-46.
Schonfelder, Max: *See*—
Spreter, Victor; and Schonfelder, Max,3,421,611.
Schonholzer, Emil T.: *See*—
Stringer, Loren F.; and Schonholzer, Emil T.,3,487,279.
Schonholzer, Peter Hans, to Buhler, Gebruder, AG. Tubular conduit construction. 3,481,633, 12-2-69, Cl. 285-93.
Schonhorn, Harold: *See*—
Hansen, Ralph H.; and Schonhorn, Harold,3,462,335.
Schonhuber, Max-Josef: *See*—
Roth, Karl; Anwander, Elmar; and Schonhuber, Max-Josef,3,441,773.
Schonmeier, Herbert; and Mohle, Horst, to Jagenberg-Werke AG. Cross cutting assemblage for use in cutting paper, cardboard and similar materials. 3,477,328, 11-11-69, Cl. 83-677.
Schonol, Karl: *See*—
Wirth, Wolf-Dieter; Knupfer, Hans; Schellhammer, Carl-Wolfgang; Schonol, Karl; and Scholermann, Walter,3,420,835.
Schonstedt, Erick O. Magnetic field sensor including means to minimize permanent magnetization. 3,426,269, 2-4-69, Cl. 324-43.
Schonstedt, Erick O. Core assembly of prefabricated parts for a magnetic field sensor. 3,439,264, 4-15-69, Cl. 324-43.
Schonstedt, Erick O. Induced magnetic compensation for misalignment of magnetic gradiometer sensors. 3,487,459, 12-30-69, Cl. 324-43.
Schoo, Hermann: *See*—
Burian, Theodor; and Schoo, Hermann,3,441,676.
Schoolcraft, John L.; Aubrey, William M., Jr.; and Moyer, William H., Jr., to Bethlehem Steel Corporation. Method for recovering chalcopyrite and pyrite from complex magnetite ores. 3,456,792, 7-22-69, Cl. 209-167.

Schooley, Robert W. Sensing switch systems. 3,462,569, 8-19-69, Cl. 200-61.13
Schoolhouse Industries, Inc.: *See*—
Greenberg, Malvin, 3,469,325.
Schools for Industrial Education of Newark, N. J., Administering Newark College of Engineering, Board of Trustees of, The: *See*—
Mantell, Charles L.; and Ferment, George R., 3,455,799.
Schoonman, Willem. Air-cooled condenser with provision for prevention of condensate freezing. 3,424,235, 1-28-69, Cl. 165-110.
Schoonover, Richard H. A., to Katrak Vehicle Company. Tandem type vehicle and steering drive and torque limit controls therefor. 3,434,739, 3-25-69, Cl. 280-492.
Schoonover, Richard H. A., to Katrak Vehicle Company. Track-laying vehicle and self-energizing track torque control therefor. 3,443,654, 5-13-69, Cl. 180-9.62
Schoonover, Richard H. A., to Katrak Vehicle Company. Self-cleaning track and drive assembly for track-laying vehicles. 3,443,844, 5-13-69, Cl. 305-13.
Schoonover, Richard H. A., to Katrak Vehicle Company. Vehicle drive system. 3,446,302, 5-27-69, Cl. 180-9.2
Schoonover, Richard H. A., to Katrak Vehicle Company. Double walking beam suspension and drive assembly for track laying vehicles. 3,447,620, 6-3-69, Cl. 180-9.52
Schoonover, Richard H. A., to Katrak Vehicle Company. Triple walking beam suspension and drive assembly for track laying vehicles. 3,447,621, 6-3-69, Cl. 180-9.52
Schoonover, Robert J.: *See*—
Nellessen, Alfred H.; and Schoonover, Robert J.,3,420,597.
Schoot, Cornelis Johannes, to North American Philips Company, Inc. Methods of manufacturing 2,6-dichlorobenzamide. 3,444,196, 5-13-69, Cl. 260-558.
Schoot, Cornelis Johannes; and Ponjee, Johannes Jacobus, to North American Philips Company, Inc. Acidic tin depositing bath. 3,429,790, 2-25-69, Cl. 204-54.
Schoot, Cornelis Johannes; and Ponjee, Johannes Jacobus, to U.S. Philips Corporation, mesne. Tin plating baths. 3,471,379, 10-7-69, Cl. 204-54.
Schootstra, Rients: *See*—
Duymelinck, Jacobus Henricus; and Schootstra, Rients,3,465,780.
Schopf, Albert: *See*—
Kroes, Gerardus Henricus; Siggel, Erhard; Schopf, Albert; and Meyer, Gerhard,3,429,849.
Schopf, Albert; Siggel, Erhard; and Meyer, Gerhard, to Vereinigte Glanzstoff-Fabriken AG. Production of formaldehyde from trithiane. 3,420,888, 1-7-69, Cl. 260-606.
Schopf, Clemens: *See*—
Feiner, Alfred; Hamann, Rudolf; and Schopf, Clemens,3,429,130.
Schopf, Dieter, to Union Special Maschinenfabrik G.m.b.H. Cut-off device for the threads of double chain stitch sewing machine. 3,424,115, 1-28-69, Cl. 112-252.
Schopf, Dieter, to Union Special Maschinenfabrik, G.m.b.H. Thread severing device for severing the looper and needle threads on double chain stitch sewing machines. 3,424,117, 1-28-69, Cl. 112-252.
Schopfel, Franz Xaver. Device for the massage and treatment of the scalp. 3,457,913, 7-29-69, Cl. 128-64.
Schopp, Lloyd W.: *See*—
Hobart, Paul W.; and Schopp, Lloyd W.,3,453,959.
Schoppe, Fritz. Burner for firing a combustion chamber. 3,485,566, 12-23-69, Cl. 431-158.
Schor, Ferdinand William, to International Telephone and Telegraph Corporation. Electrical connector filter comprising at least one electrically conductive coated dielectric disc and a ferromagnetic disc. 3,447,104, 5-27-69, Cl. 333-79.
Schor, Ferdinand William, to International Telephone and Telegraph Corporation. Removable electrical connector filter assembly. 3,462,715, 8-19-69, Cl. 333-79.
Schor, Harvey Ronald: *See*—
Krauer, Otto Albert; Voigt, Herbert Frederick; and Schor, Harvey Ronald,3,433,326.
Schor, Wayne E.: *See*—
Beville, Ross H.; Schor, Wayne E.; and Durst, David R.,3,432,082.
Schora, Frank C., Jr.: *See*—
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B.,3,442,619.
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B.,3,442,620.
Schorre, Gustav, to Merck, E., A.G.4H-4-Hydroxy-5-hydroxymethyl-8-methyl-m-dioxino [4,5-c]pyridine-5-phosphate and derivatives. 3,472,862, 10-14-69, Cl. 260-297.
Schorscher, Ernst: *See*—
Pohlke, Rolf; Sommer, Siegmund; and Schorscher, Ernst,3,452,010.
Schorum, Stanley W.; and Wolff, Jay R., to United States of America, National Aeronautics and Space Administration. High speed binary-to-decimal conversion system. 3,474,441, 10-21-69, Cl. 340-347.
Schossow, George W. Vehicle crankcase drain plug with remote operator. 3,477,459, 11-11-69, Cl. 137-351.
Schotland, Ronald S., to Mobil Oil Corporation. Polybutene-1 film and its orientation process. 3,468,862, 9-23-69, Cl. 260-93.7
Schott, Andrew F. Mathematics teaching tool. 3,455,034, 7-15-69, Cl. 35-33.
Schott, Charles M., Jr., to Gloucester Engineering Co., Inc. Web altering mechanism. 3,473,995, 10-21-69, Cl. 156-513.
Schott, Clarence C. Stack furnace with pushers for feeding scrap material. 3,472,502, 10-14-69, Cl. 266-27.
Schott, Claus: *See*—
Fischer, Edgar; and Schott, Claus,3,424,725.
Fischer, Edgar; and Schott, Claus,3,453,239.
Fischer, Edgar; and Schott, Claus,3,457,228.
Fischer, Edgar; and Schott, Claus,3,457,229.
Fischer, Edgar; Schott, Claus; and Asmus, Klaus,3,453,238.
Weissermel, Klaus; Fischer, Edgar; and Schott, Claus,3,435,006.
Schott, Donald E., to Wilson, Thomas C., Inc. Tube expander. 3,426,565, 2-11-69, Cl. 72-122.
Schott, Eugene A.: *See*—
Fenn, Warren T.; Schott, Eugene A.; and Tschudy, Donald B.,3,448,864.
Schott, Robert E., to Allis-Chalmers Manufacturing Company. Hydraulic control valve. 3,439,708, 4-22-69, Cl. 137-596.13
Schott, Robert E., to Allis-Chalmers Manufacturing Company. Differential lock. 3,446,320, 5-27-69, Cl. 192-4.
Schott, Robert E.; and Bernhoft, Gerlad W., to Allis-Chalmers Manufacturing Company. Hydraulic draft control valve. 3,439,709, 4-22-69, Cl. 137-596.13
Schott, Wayne M., to Zenith Radio Corporation. Variable-turnover-frequency bass tone control. 3,460,071, 8-5-69, Cl. 333-28.
Schott, Winfried, to U.S. Philips Corporation. Device for producing frequency intervals for tuning musical instruments. 3,472,116, 10-14-69, Cl. 84-454.
Schott, Winfried: *See*—
Kaps, Gerhard; and Schott, Winfried,3,448,251.
Schottanes, Martin. Multiple vacuum bottle container. 3,465,905, 9-9-69, Cl. 215-6.
Schottelwerft Josef Becker KG.: *See*—
Becker, Josef, 3,452,703.
Becker, Josef, 3,455,271.
Schottle, Ulrich: *See*—
Krumbein, Fritz; Becker, Dietrich; and Schottle, Ulrich,3,442,584.
Ruhle, Hans; Schottle, Ulrich; Thiele, Heinz; Schwahn, Josef; and Ritze, Arno,3,452,656.
Schottmiller, John C.; and Walborn, Ray C., Jr., to Xerox Corporation. Method of preparing lead oxide films. 3,468,705, 9-23-69, Cl. 117-201.
Schou, Carl E., to North American Rockwell Corporation. Hydrostatic transmission. 3,446,240, 5-27-69, Cl. 137-495.
Schou, Carl E., to Rockwell-Standard Company, mesne. Vehicle drive. 3,465,616, 9-9-69, Cl. 74-870.
Schozel, Karl, to Greutert, Werner. Storage battery. 3,462,304, 8-19-69, Cl. 136-6.
Schpak, Fred; Breger, Joseph L.; and Warner, Robert H., to Mueller Welt Contact Lenses, Inc. Method of machining non-rigid contact lenses. 3,423,886, 1-28-69, Cl. 51-281.
Schrader, Charles D.; and Schrader, Max A., Sr. Secondary ignition wire end assembly. 3,431,534, 3-4-69, Cl. 339-26.
Schrader, Edward Robert, to Radio Corporation of America. Superconducting ribbon. 3,443,021, 5-6-69, Cl. 174-126.
Schrader, George F.: *See*—
Teichert, Allen L.; and Schrader, George F.,3,463,008.
Schrader, Gerald R., to Bowles Engineering Corporation. Limiting amplifier. 3,468,324, 9-23-69, Cl. 137-81.5
Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Asymmetrical para-nitrophenyl phosphates. 3,444,274, 5-13-69, Cl. 260-954.
Schrader, Gerhard; Behrenz, Wolfgang; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. O,O-Dialkyl-O-(dithiocarbonato)ethyl- phosphoric acid esters. 3,470,229, 9-30-69, Cl. 260-455.
Schrader, Gerhard; Eue, Ludwig; and Hack, Helmuth, to Farbenfabriken Bayer Aktiengesellschaft. O-Methyl-N-isopropylamido-O-(2-nitrophenyl)- thionophosphoric acid ester. 3,472,920, 10-14-69, Cl. 260-954.
Schrader, Gerhard; and Scheinpflug, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Thiol- and dithiol-phosphoric acid esters. 3,457,332, 7-22-69, Cl. 260-935.
Schrader, Gerhard: *See*—
Scheinpflug, Hans; Jung, Herbert Ferdinand; and Schrader, Gerhard,3,459,857.
Schrader, Gert, to Teves, Alfred, G.m.b.H. Piston-cylinder assembly with dustcap. 3,478,650, 11-18-69, Cl. 92-168.
Schrader, James H., to United States of America, National Aeronautics and Space Administration. Cooperative doppler radar system. 3,447,154, 5-27-69, Cl. 343-6.5

Schrader, Malcolm E.; and Lerner, Irving, to United States of America, Navy. Organophosphorus coupling agents for epoxy to glass laminates. 3,420,726, 1-7-69, Cl. 156-314.
Schrader, Max A., Sr.: *See—*
Schrader, Charles D.; and Schrader, Max A., Sr.,3,431,534.
Schrader, Melvin A.: *See—*
Cory, William E.; and Schrader, Melvin A.,3,446,298.
Schrader, Richard; Grunwoldt, Wilfried; Hennek, Hubert; Kneschke, Gotz; and Reinhardt, Helmut, to VEB Magnesit-Werke Aken. Process for making synthetic sintered magnesia. 3,464,790, 9-2-69, Cl. 23-201.
Schrage, Albert; and Schoenberg, Jules E., to Rexall Drug and Chemical Company. Highly fluorinated hydrocarbons used as diluents in the polymerization of ethylenically unsaturated monomers. 3,470,143, 9-30-69, Cl. 260-82.5
Schrage, David W.: *See—*
Lannert, James W.; Townsend, George E.; and Schrage, David W.,3,453,085.
Schrage, Manfred: *See—*
Iken, Horst; and Schrage, Manfred,3,441,634.
Schrager, Hubert I.; and Waters, William E., to Varian Associates. Ceramic supported slow wave circuits with the ceramic support bonded to both the circuit and surrounding envelope. 3,475,643, 10-28-69, Cl. 315-3.5
Schrager, Jerome Stanley: *See—*
Di Salvo, Walter Anthony; and Schrager, Jerome Stanley,3,420,875.
Schramek, Henri; Riethmann, Jean; and Kallen, Jorg, to Geigy Chemical Corporation. Process for the production of 5H-dibenz[b,f] azepines. 3,449,324, 6-10-69, Cl. 260-239.
Schramm, Charles H.; and Schmidle, Claude J., to Baker, J. T., Chemical Company. Urethanohalohydrins. 3,454,622, 7-8-69, Cl. 260-471.
Schramm, Charles H.; and Schmidle, Claude J., to Baker, J. T., Chemical Company. Certain epoxy-containing 2-oxazolidinones. 3,458,527, 7-29-69, Cl. 260-307.
Schramm, Charles H.: *See—*
Zief, Morris; and Schramm, Charles H.,3,448,094.
Schramm, Paul; and Blanche, Josef. Sewage treatment systems including an aerating reservoir and a post-sedimentation reservoir supplied from said aerating reservoir. 3,421,626, 1-14-69, Cl. 210-124.
Schramm, Walter; and Baldus, Wolfgang, to Linde Aktiengesellschaft. Process and apparatus for the removal of traces of impurities from carbon dioxide. 3,469,410, 9-30-69, Cl. 62-28.
Schrank, Helmut, to Westinghouse Electric Corporation. High power microwave switch. 3,480,885, 11-25-69, Cl. 333-7.
Schranz, Karl-Wilhelm: *See—*
Puschel, Walter; and Schranz, Karl-Wilhelm,3,457,077.
Puschel, Walter; and Schranz, Karl-Wilhelm,3,467,520.
Puschel, Walter; Schranz, Karl-Wilhelm; Lassig, Wolfgang; Marx, Paul; and Credner, Hans-Heinrich,3,443,942.
Schmidt, Rolf; and Schranz, Karl-Wilhelm,3,483,809.
Schraub, Wilhelm; and Becker, Toni, to Scharmann & Co. Fast clamping device on machine tools especially for conical tools. 3,486,412, 12-30-69, Cl. 90-11.
Schraud, Alfred: *See—*
Meier-Windhorst, Christian August; Schraud, Alfred; and Vogeler, Helmut,3,451,077.
Schrauf, Karl, to Seewer, Gustave A. Dough working apparatus. 3,473,488, 10-21-69, Cl. 107-9.
Schrauzer, Gerhard N.: *See—*
Smith, Curtis W.; Schrauzer, Gerhard N.; Windgassen, Richard J.; and Koetitz, Kenneth F.,3,463,819.
Schraven, Eckhard: *See—*
Keck, Johannes; Nickl, Josef; Koss, Friedrich-Wilhelm; Schraven, Eckhard; and Beisenherz, Gerwin,3,454,574.
Schreckenberg, Karl E.; and Jessen, Jens, to Fuchs Electrical Industries (Proprietary) Limited. Relay having a permanent magnetic shunt circuit. 3,475,708, 10-28-69, Cl. 335-229.
Schreckendgust, Jay G., to Graflex, Inc. Power control circuit for low voltage lamps. 3,449,631, 6-10-69, Cl. 315-238.
Schreckendgust, Jay G., to Graflex, Inc. Electrochromic shutter system. 3,476,029, 11-4-69, Cl. 95-53.
Schrecongost, Ray B., to Hammond Corporation. Electrical musical instrument keying system. 3,435,123, 3-25-69, Cl. 84-1.26
Schrecongost, Ray B., to Hammond Organ Company. Musical instrument frequency divider which divides by two and by four. 3,469,109, 9-23-69, Cl. 307-220.
Schrecongost, Ray B.; and Ring, William C.; to Hammond Corporation. Electric organ and proportional keying system therefor. 3,440,324, 4-22-69, Cl. 84-1.22
Schreder, Kenneth D.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,482,179.
Schreib, Carl G. Pipe cutting machine. 3,464,685, 9-2-69, Cl. 266-23.
Schreiber, August. Apparatus for aerating waste water. 3,442,495, 5-6-69, Cl. 261-83.
Schreiber, Charles L.: *See—*
Kolb, Kenneth E.; and Schreiber, Charles L.,3,471,356.
Schreiber, Erich; and Skatsche, Othmar, to List, Hans. Device for determining the soot content of flue gases. 3,464,257, 9-2-69, Cl. 73-28.
Schreiber, Erich: *See—*
List, Hans; and Schreiber, Erich,3,481,191.
Schreiber, Franz: *See—*
Mutschler, Erich; and Schreiber. Franz,3,459,913.
Schreiber, Franz, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Switch, especially for steering column switches in motor vehicles. 3,476,896, 11-4-69, Cl. 200-61.54
Schreiber, Gerhard; and Kraus, Herman, to Siegener Maschinenbau G.m.b.H. Belt wrapper for a coiler for the winding of rolled steel strip. 3,423,981, 1-28-69, Cl. 72-148.
Schreiber, Henry; Goerz, David J., Jr.; Hankin, Jerome W.; and Stephansen, Erik W., to Bechtel International Corporation, mesne. Air suspension system in microwave drying. 3,449,836, 6-17-69, Cl. 34-1.
Schreiber, Horst: *See—*
Hadler, Rudolf; Ullrich, Hansjurgen; and Schreiber, Horst,3,473,896.
Otten, Gerhard; Halder, Rudolf; and Schreiber, Horst,3,426,083.
Schreiber, Joseph. Key-operated lock mounting and removing arrangement. 3,448,599, 6-10-69, Cl. 70-371.
Schreiber, Lucian L.: *See—*
Carlson, Arthur B.; Kettleborough, Donald J.; and Schreiber, Lucian L.,3,451,089.
Schreiber, Martin Hans, to VEB Feuerloschgeratewerk Neuruppin. Dry-type fire-extinguisher composition with high electrical resistance. 3,445,384, 5-20-69, Cl. 252-2.
Schreiber, Otto: *See—*
Gunther, Norbert; Schreiber, Otto; Rubl, Wilhelm; and Griebisch, Otto,3,436,150.
Schreiber, Peter Jurgen; and Sweatman, Travers Fraser, to Sweatman, Fraser, Incorporated. Safety filling device. 3,459,245, 8-5-69, Cl. 141-292.
Schreiber, Peter, to Drager, Otto Heinrich. Air injector for breathing apparatus. 3,441,041, 4-29-69, Cl. 137-98.
Schreier, Bernard Dov. Winches. 3,477,697, 11-11-69, Cl. 254-184.
Schreier, Wilford R., to Hammond Corporation. Scanning device. 3,422,376, 1-14-69, Cl. 333-7.
Schrein, Marcus R., to Universal Oil Products Company. Antioxidant composition and use thereof. 3,446,608, 5-27-69, Cl. 44-61.
Schreiner, Charles W., Jr., to United States of America, Army. Missile system with heading plus drift control. 3,464,649, 9-2-69, Cl. 244-3.2
Schreiner, Friedrich: *See—*
Magg, Alfred; and Schreiner, Friedrich,3,470,766.
Schreiner, Fritz: *See—*
Ries, Ludwig; Schreiner, Fritz; and Schaefer, Werner,3,454,880.
Schreiner, Gilbert O. Device, variable-density stereoviewing spectacles. 3,432,220, 3-11-69, Cl. 350-132.
Schreiner, Heinz R., to Union Carbide Corporation. Method for accelerating the aging of freshly slaughtered meat. 3,451,825, 6-24-69, Cl. 99-107.
Schreiner, Lester Dale; and Shindelar, Joseph John, to Deere & Company. Harvester roll structure and support therefor. 3,462,928, 8-26-69, Cl. 56-104.
Schreiner, Louis W., to Warwick Electronics Inc. Duo-diode keyed AGC circuit. 3,452,152, 6-24-69, Cl. 178-7.3
Schreiner, Stanley M.: *See—*
Plouffe, Robert L.; and Schreiner, Stanley M.,3,467,782.
Schrem, Gunter, to Walther-Buromaschinen GmbH. Key locking circuit for a keyboard operated machine. 3,454,147, 7-8-69, Cl. 197-98.
Schrempp, Winfried, to Bolkow Gesellschaft mit beschrankter Haftung. Device for determining mean value of two opposite peripheral coordinates of a solar image. 3,423,591, 1-21-69, Cl. 250-203.
Schrempp, Winfried: *See—*
Dietrich, Walter; and Schrempp, Winfried,3,478,315.
Schrenk, Walter J., to Dow Chemical Company, The. Light screens and method of making the same. 3,444,031, 5-13-69, Cl. 161-3.5
Schrenk, Walter J., to Dow Chemical Company, The. Method of making Christmas tinsel. 3,480,502, 11-25-69, Cl. 156-271.
Schrenk, Walter J.; and Chisholm, Douglas S., to Dow Chemical Company, The. Composite article formation. 3,485,912, 12-23-69, Cl. 264-171.
Schrenk, Walter: *See—*
Sederlund, Edward R.; and Schrenk, Walter,3,472,924.
Schreuder, Thomas R.: *See—*
Clemens, Ogden A.; Schreuder, Thomas R.; and Panek, Mitchell W.,3,481,746.
Schreuders, Teunis: *See—*
Keith, Carl D.; and Schreuders, Teunis,3,441,382.
Keith, Carl D.; Cunningham, Charles E.; and Schreuders, Teunis,3,443,911.
Keith, Carl D.; Schreuders, Teunis; and Cunningham, Charles E.,3,441,381.

Schrewe, Hans, to Mannesmann Aktiengesellschaft. Continuous slab casting mold. 3,429,365, 2-25-69, Cl. 164-273.
Schrewe, Hans, to Mannesmann Aktiengesellschaft. Guide means for the casting in a continuous casting machine. 3,433,289, 3-18-69, Cl. 164-282.
Schrewelius, Nils Gustav, to Aktiebolaget Kanthal. Tail-pipe nozzle for rocket motors. 3,465,965, 9-9-69, Cl. 239-265.15
Schreyer, Franz: *See—*
Landwehrkamp, Hans; and Schreyer, Franz,3,425,205.
Landwehrkamp, Hans; and Schreyer, Franz,3,439,487.
Landwehrkamp, Hans; and Schreyer, Franz,3,481,128.
Schreyer, Kenneth D., to Standard Pressed Steel Co. Typewriter desk mechanism. 3,425,761, 2-4-69, Cl. 312-28.
Schreyer, Kenneth D. Desk construction. 3,434,768, 3-25-69, Cl. 312-194.
Schreyer, Kenneth D., to Lyon Metal Products, Incorporated. Furniture top construction. 3,439,466, 4-22-69, Cl. 52-624.
Schreyer, Kenneth D., to Lyon Metal Products, Incorporated. Drawer construction and divider therefor. 3,450,296, 6-17-69, Cl. 220-22.1
Schreyer, Kenneth D., to Lyon Metal Products, Incorporated. Desk drawer construction. 3,450,304, 6-17-69, Cl. 220-68.
Schreyer, Kenneth D. Desk pedestal construction. 3,471,211, 10-7-69, Cl. 312-330.
Schreyer, Kenneth D.; and Clark, Leonard R., to Standard Pressed Steel Co. Handle assembly. 3,473,187, 10-21-69, Cl. 16-125.
Schreyer, Kenneth D.; and Meehl, David W., to Standard Pressed Steel Co. Decking construction with rail members. 3,432,147, 3-11-69, Cl. 256-59.
Schrier, Bruce H.: *See—*
Bailey, Ernest L.; Cote, Raymond A.; and Schrier, Bruce H.,3,447,672.
Schriffert, Edward John: *See—*
Carvalho, Dorothy Ann; Hauser, Martin; Schriffert, Edward John; and Sprague, George Sidney,3,431,151.
Schrijnemakers, Gerardus Servaas Marie, to U.S. Philips Corporation, mesne. Method and apparatus for adjusting interelectrode spacing in a cathode-ray tube. 3,456,311, 7-22-69, Cl. 29-25.18
Schrimper, Vernon L.: *See—*
Pollitz, Harold C.; Schrimper, Vernon L.; and Fairchild, Louis F.,3,453,939.
Schrimpf, Hermann, to Daimler-Benz Aktiengesellschaft. Arrangement for the equalization of loads of two rear axles in vehicles, especially commercial-type motor vehicles. 3,460,851, 8-12-69, Cl. 280-104.5
Schrinner, Elmar: *See—*
Wolf, Erhard; and Schrinner, Elmar,3,481,928.
Schroader, Irvin H.: *See—*
Riblet, Henry B.; and Schroader, Irvin H.,3,456,350.
Schrock, Donald C., Sr.: *See—*
Maciulaitis, Vytautus K.; Svabek, John E., Jr.; and Schrock, Donald C., Sr.,3,473,173.
Schroder, Albert W.; and Miner, Robert G., to Trane Company, The. Steam trap. 3,433,243, 3-18-69, Cl. 137-183.
Schroder, Eberhard: *See—*
Lukbe, Klaus; Schroder, Eberhard; and Zollner, Georg,3,423,390.
Schroder, Edward W. Toilet flush mechanism. 3,466,674, 9-16-69, Cl. 4-57.
Schroder, Egbert: *See—*
Dopper, Otto; Bollig, Georg; Schroder, Egbert; Kuppers, Klaus; and Schulz, Alfred,3,469,429.
Schroder, Egbert, to Scholemann Aktiengesellschaft. Deposition of a continuous string of turns of wire upon a conveyor. 3,460,777, 8-12-69, Cl. 242-83.
Schroder, Egbert, to Schloemann Aktiengesellschaft. Continuous deposition of a string of turns of wire upon an endless conveyor. 3,469,798, 9-30-69, Cl. 242-83.
Schroder, Erich, to Grundig E.M.V. Electro-Mecanische Versuchsanstalt Inh. Max Grundig. Tape cartridge ejecting arrangement. 3,432,169, 3-11-69, Cl. 274-4.
Schroder, Gunter; Fink, Herbert; and Goth, Helmut, to Rohm & Haas G.m.b.H. Extraction of crystallized diammonium acetone disulfonate. 3,454,628, 7-8-69, Cl. 260-513.
Schroder, Harry: *See—*
Krautwald, Herbert; and Schroder, Harry,3,430,019.
Schroder, Herbert. Equipment for manufacturing bakery products. 3,448,865, 6-10-69, Cl. 214-1.
Schroder, Johann; and Nijland, Louis Marius, to U.S. Philips Corporation, mesne. Flashbulb and attachment for camera. 3,459,488, 8-5-69, Cl. 431-95.
Schroder, John D.: *See—*
Rockwood, Albert M.; and Schroder, John D.,3,458,193.
Schroder, Joris Theodor; and Dube, Gerd-Gunther, to Otis Elevator Company. Emergency brake for conveyors. 3,469,678, 9-30-69, Cl. 198-232.
Schroder, Ludwig; Thomas, Klaus; and Jerchel, Dietrich, to Boehringer, C. H., Sohn. Novel tin complexes. 3,461,132, 8-12-69, Cl. 260-327.
Schroder, Svend Ludvig: *See—*
Lebech, Paul Erik; and Schroder, Svend Ludvig,3,467,087.
Schroder, William J.: *See—*
Whitworth, James W.; and Schroder, William J.,3,478,401.
Schroeder, Adolph C.; and Huck, Nelton D. Refrigerating system. 3,477,243, 11-11-69, Cl. 62-298.
Schroeder, Allyn: *See—*
Carlson, Chesley F.; and Schroeder, Allyn,3,463,586.
Schroeder, Arnold; and Nieuwenhuis, Paulus G. J., to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Stabilized polyvinylchloride. 3,476,704, 11-4-69, Cl. 260-45.75
Schroeder, Arthur Henry, Jr. Pressure weld seal for a composite glass body and method of forming said seal. 3,482,726, 12-9-69, Cl. 220-2.3
Schroeder, Carl J., to Chemical Rubber Company, The. Drying air housing. 3,457,110, 7-22-69, Cl. 134-99.
Schroeder, Carl W.: *See—*
Lopatin, George; and Schroeder, Carl W.,3,468,044.
Schroeder, Charles F. Electromagnetic unit. 3,440,384, 4-22-69, Cl. 219-10.49
Schroeder, Charles W., to Lipton, Thomas J., Inc. Process for preparing tea extracts. 3,482,991, 12-9-69, Cl. 99-77.
Schroeder, Dorothy: *See—*
Hueni, Albrecht; Schweizer, Ernst; and Schroeder, Dorothy,3,445,467.
Schroeder, Duane A.; and Gulick, Graham L., to Methode Electronics, Inc. Soldering methods and compositions. 3,484,929, 12-23-69, Cl. 29-495.
Schroeder, Elmer F., to Searle, G. D., & Co. 1-Alkenyl-3-alkyl-7-amino-1,2,3,4,5,6-hexahydro- 2,4-pteridinediones and 1,2,3,4-tetrahydro compounds corresponding. 3,458,512, 7-29-69, Cl. 260-251.5
Schroeder, Fred W., to Smith Industries International, Inc. Reversible excavating tooth. 3,453,756, 7-8-69, Cl. 37-142.
Schroeder, George A.: *See—*
Hantman, Lionel L.; Lutz, Eugene F.; and Schroeder, George A.,3,474,795.
Schroeder, Gerhard Albert Richard; Trenkler, Werner; and Tomala, Hans, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Top for motor vehicles, especially for passenger motor vehicles. 3,476,437, 11-4-69, Cl. 296-137.
Schroeder, H., & Co.: *See—*
Nordt, Gunter Oskar, 3,464,440.
Schroeder, Hans-Detlef: *See—*
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,462,427.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,466,277.
Schroeder, Hansjuergen A.: *See—*
Alexander, Roy P.; and Schroeder, Hansjuergen A.,3,444,272.
Papetti, Stelvio; and Schroeder, Hansjuergen A.,3,463,801.
Schroeder, Herbert F., to Esso Research and Engineering Company. Process for forming board structures. 3,476,848, 11-4-69, Cl. 264-120.
Schroeder, Herbert M.; and Walker, Stanton E., to Textron Inc. Water dispersible composition containing a reaction product of a modified drying oil component and an alkoxy polyalkylene glycol. 3,438,795, 4-15-69, Cl. 106-254.
Schroeder, Jack J.: *See—*
Appleman, Milo D., 3,420,672.
Schroeder, James C.: *See—*
Fischer, Heinz G.; and Schroeder, James C.,3,449,633.
Schroeder, Joseph W.: *See—*
Whitney, Gilbert C., Jr.; and Schroeder, Joseph W.,3,431,763.
Whitney, Gilbert C., Jr.; and Schroeder, Joseph W.,3,469,426.
Schroeder, Kenneth W.; and Isaacson, Bruce G., to Magnaflux Corporation. Magnetic testing system current measuring device. 3,449,663, 6-10-69, Cl. 324-38.
Schroeder, Klaus G., to Collins Radio Company. Complementary pair antenna element groups. 3,449,751, 6-10-69, Cl. 343-727.
Schroeder, Klaus G., to Collins Radio Company. Combination vertically-horizontally polarized paracylinder antennas. 3,483,563, 12-9-69, Cl. 343-728.
Schroeder, Lester F., to Steelcase, Inc. Adjustable indexing glide for furniture legs. 3,430,287, 3-4-69, Cl. 16-42.
Schroeder, Lester F., to Steelcase, Inc. Flexible curtain construction. 3,437,126, 4-8-69, Cl. 160-235.
Schroeder, Lloyd A.: *See—*
Londal, Ralph K.; Schroeder, Lloyd A.; and Doolin, Wendell M.,3,461,948.
Schroeder, Manfred R.: *See—*
Flanagan, James L.; and Schroeder, Manfred R.,3,484,556.
Flanagan, James L.; Golden, Roger M.; and Schroeder, Manfred R.,3,466,547.
Schroeder, Manfred R., to Bell Telephone Laboratories, Incorporated. Multipath focusing signal processor. 3,424,269, 1-28-69, Cl. 181-0.5
Schroeder, Martin H. Method of making swimming pools. 3,420,062, 1-7-69, Cl. 61-1.
Schroeder, Martin H. Sand filter. 3,426,906, 2-11-69, Cl. 210-279.
Schroeder, Martin H. Curb construction for swimming pools. 3,452,495, 7-1-69, Cl. 52-102.

Schroeder, Paul G. K. Sealing of sausage casings. 3,427,170, 2-11-69, Cl. 99-176.
Schroeder, Paul M., Jr., to General Dynamics Corporation. Stowable aft fairing for a reusable rocket. 3,432,125, 3-11-69, Cl. 244-130.
Schroeder, Robert E.; West, Walter H.; and Mick, William F., to Dow Chemical Company, The. Apparatus for flanging of thermoplastic lined pipe. 3,461,505, 8-19-69, Cl. 18-19.
Schroeder, Royal E., to General Motors Corporation. Conveyor roller member assembly. 3,476,904, 11-4-69, Cl. 219-10.55
Schroeder, William: *See—*
Jackson, William G.; and Schroeder, William,3,484,387.
Schroeder, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Regeneration of solutions loaded with carbon dioxide. 3,420,885, 1-7-69, Cl. 260-584.
Schroeder, Wolfgang: *See—*
Herber, Horst; Hagen, Werner; and Schroeder, Wolfgang,3,455,091.
Schroedter, Willburt W., to Combustion Engineering, Inc. Multicircuit recirculation system for vapor generating power plant. 3,434,460, 3-25-69, Cl. 122-406.
Schroeer, Rudi M.; Frank, Johann E.; and Tinsley, Ronald E., to Arvin Systems, Inc. Thermal testing apparatus. 3,457,770, 7-29-69, Cl. 73-15.
Schroeppel, John H.; and McGaughey, Raymond L., to General Time Corporation. Parallel gap welding. 3,435,184, 3-25-69, Cl. 219-119.
Schroer, Charles E.: *See—*
Hamilton, John J.; and Schroer, Charles E.,3,429,449.
Schroer, Gary J., to Schroer Manufacturing Company, Inc. Cage for laboratory animals. 3,429,297, 2-25-69, Cl. 119-17.
Schroer, Hans-Gunther: *See—*
Hauck, Gunther; Herold, Gerhard; and Schroer, Hans-Gunther,3,469,801.
Schroer, John B. Rail-post connection. 3,471,182, 10-7-69, Cl. 287-54.
Schroer Manufacturing Company, Inc.: *See—*
Schroer, Gary J., 3,429,297.
Schroeter, Joachim W., to Buffalo Forge Company. Fan construction. 3,459,366, 8-5-69, Cl. 230-134.
Schroeter, John D. Continuous well logging apparatus. 3,422,674, 1-21-69, Cl. 73-153.
Schroeter, Thomas T.: *See—*
Du Pont, Anthony A.; Harris, Edward N.; and Schroeter, Thomas T.,3,486,340.
Schrom, Edward C., to General Electric Company. Electrohydraulic shock-wave generating apparatus with directing and shaping means. 3,486,062, 12-23-69, Cl. 313-217.
Schropp, Harold D. Detachable windrow sizer box for material moving scraper. 3,479,755, 11-25-69, Cl. 37-8.
Schroter, Herbert; and Prins, Daniel A., to Geigy Chemical Corporation. 9,10-Dihydro-11-amino-alkylene-9,10 ethanoanthracenes. 3,422,104, 1-14-69, Cl. 260-247.1
Schroter, Kurt; Nienhaus, Clemans; Vollmer, Jurgen; and Burghardt, Alfons, to Wallerscheid, Jean, Firma K.G. Arrangement for indicating position of an adjusting mechanism mounted on a rotatable member. 3,465,327, 9-2-69, Cl. 340-282.
Schroter, Rudolf: *See—*
Wagner, Kuno; Bayer, Otto; and Schroter, Rudolf,3,441,588.
Schroth, Fridolin, to Les Forges de Zubrugge S.A. Bomb braking system. 3,434,417, 3-25-69, Cl. 102-4.
Schrotter, Rudolf: *See—*
Bayer, Otto; Schrotter, Rudolf; Siefken, Werner; and Wagner, Kuno,3,437,609.
Schrotz, Kurt. Automatic labelling machine. 3,468,739, 9-23-69, Cl. 156-361.
Schroyer, Franklin K.: *See—*
Higley, Joseph B.; Robertson, Donald; and Schroyer, Franklin K.,3,448,283.
Schroyer, Patrick L. Coupled channel panelling for ceilings, roofs, siding and the like. 3,462,906, 8-26-69, Cl. 52-478.
Schrufer, Elmar: *See—*
Obrowski, Walter; Bornig, Karl-Heinz; and Schrufer, Elmar,3,444,373.
Schryver, George W. Process for controlling stream and waterway pollution by treating sewage at the source and apparatus therefor. 3,458,140, 7-29-69, Cl. 241-23.
Schub, Herman: *See—*
Fisher, Paul C.; Schub, Herman; and Kennedy, Roger A.,3,425,779.
Schubach, Uluse E.; Woods, Otho C.; Grutsch, Patrick C.; and Eberhardt, Jack L. Device for restraining prisoners and the like. 3,426,559, 2-11-69, Cl. 70-16.
Schubel, Hans: *See—*
Ratz, Heinz; and Schubel, Hans,3,455,884.
Schubert & Salzer Maschinenfabrik Aktiengesellschaft: *See—*
Landwehrkamp, Hans; and Schreyer, Franz, 3,425,205.
Landwehrkamp, Hans; and Schreyer, Franz, 3,439,487.
Landwehrkamp, Hans; and Schreyer, Franz, 3,481,128.
Scheel, Jurgen, 3,473,350.
Toto, William A., 3,467,457.
Schubert, Alfred; and Eichas, Heinz, to Feldmuhle Aktiengesellschaft. Wire-drawing capstan. 3,432,146, 3-11-69, Cl. 254-150.
Schubert, Bernhard: *See—*
Bardenhagen, Dietrich; and Schubert, Bernhard,3,479,787.
Schubert, Bernhard, to Hauni-Werke Korber & Co., KG. Apparatus for building blocks of rod-shaped articles. 3,444,981, 5-20-69, Cl. 198-31.
Schubert, Bernhard, to Hauni-Werke Korber & Co. K.G. Method and apparatus for manipulating rod-like articles. 3,486,405, 12-30-69, Cl. 83-102.
Schubert, Egon: *See—*
Giese, Ernest; Schubert, Egon; and Rienesl, Konrad,3,460,979.
Schubert, Hans G. Torque wrench. 3,481,193, 12-2-69, Cl. 73-139.
Schubert, Hermann: *See—*
Lambrecht, Josef; and Schubert, Hermann,3,430,941.
Schubert, Lawrence F.: *See—*
Liljegren, Jack G.; Schaal, Wayne G.; and Schubert, Lawrence F.,3,480,212.
Schubert, Paul E., to Cregier Electrical Mfg., Co. Electric meter-mounting and fuse-holder assembly. 3,458,768, 7-29-69, Cl. 317-108.
Schubert, Paul: *See—*
Meinhardt, Johannes; and Schubert, Paul,3,476,628.
Schuberth, Winfried, to International Standard Electric Corporation. Circuit arrangement for selecting a telephone extension by selector keys. 3,487,171, 12-30-69, Cl. 179-18.
Schuberth-Werk K.G.: *See—*
Zahn, Christian, 3,419,907.
Schubring, Norman W.: *See—*
Nolta, James P.; and Schubring, Norman W.,3,483,447.
Schuch, Martin. Double shell tank fluid heater. 3,439,666, 4-22-69, Cl. 126-110.
Schuchmann, Gerhard Ernst Ludwig Otto; Rath, Heinrich Bernhard; and Hoenick, Hermann Hans, to Girling Limited. Closed loop disc brake. 3,421,603, 1-14-69, Cl. 188-73.
Schuck, Manfred; and Franz, Hellmut, to Optische Werke C. A. Steinheil Sohne G.m.b.H. Resiliently yielding damped mounting. 3,474,992, 10-28-69, Cl. 248-15.
Schuck, Stephan: *See—*
Schmidt, Willi J.; and Schuck, Stephan,3,424,395.
Schucker, Josef; Glos, Franz; and Nemetz, Willi. Mercury cathode electrolysis cell. 3,445,373, 5-20-69, Cl. 204-219.
Schuckman, Meyers, to American Feather Products, Inc. Pillow. 3,443,267, 5-13-69, Cl. 5-341.
Schudel, Peter: *See—*
Mayer, Hans J.; Ruegg, Rudolf; and Schudel, Peter,3,455,959.
Schueler, Arthur W., to Precision Welder and Flexopress Corporation. Power amplification clamp structure. 3,424,060, 1-28-69, Cl. 92-10.
Schueler, Donald G.: *See—*
Land, Cecil E.; and Schueler, Donald G.,3,432,773.
Schueler, Theodore A.: *See—*
McFadden, Thomas F.; and Schueler, Theodore A.,3,440,056.
McFadden, Thomas F.; and Schueler, Theodore A.,3,440,057.
Schuelke, Walter J.: *See—*
Clark, Kendall; Rajac, Thomas J.; Santillo, George R., Jr.; and Schuelke, Walter J.,3,453,714.
Schueller, Otto, to United States of America, Air Force. Flexible structure for pressurized garments. 3,422,458, 1-21-69, Cl. 2-2.1
Schueller, Otto, to United States of America, Air Force. Multicell pressure suit. 3,428,960, 2-25-69, Cl. 2-2.1
Schueller, Otto, to United States of America, Air Force. Universal joint with guided restraint system for pressurized assemblies. 3,428,961, 2-25-69, Cl. 2-2.1
Schuerch, Hans U., to Astro Research Corporation. Isotensoid structures and method. 3,424,220, 1-28-69, Cl. 152-358.
Schuerch, Russell A. Knee and fetlock support for animals. 3,439,670, 4-22-69, Cl. 128-80.
Schuermann, Fritz: *See—*
Novotny, Rudolf; and Schuermann, Fritz,3,430,449.
Schuermann, Fritz, to Bergwerksverband GmbH. Mine roof supports. 3,447,328, 6-3-69, Cl. 61-45.
Schuessler, Frederick W., to Standard Oil Company (Indiana). Preparation of petroleum soluble-oil bases. 3,445,388, 5-20-69, Cl. 252-33.
Schuessler, John C.: *See—*
Adams, Andrew O.; Nelsen, Marvin G.; Tapp, David J.; and Schuessler, John C.,3,484,729.
Schuett, Klaus: *See—*
Neuenschwander, Ernst; Schuett, Klaus; and Scheller, Walter,3,429,661.
Schuetz, James W.: *See—*
Remmar, Robert A.; and Schuetz, James W.,3,433,046.
Schugt, Joseph F. Position responsive signal generator. 3,471,844, 10-7-69, Cl. 340-196.
Schuh, Arthur E., to United States Pipe and Foundry Company. Centrifugal casting method. 3,456,712, 7-22-69, Cl. 164-72.
Schuh, Frank J., to Atlantic Richfield Company. Wear bushing for underwater drilling apparatus. 3,459,270, 8-5-69, Cl. 175-7.

Schuh, Jan Frederik, to U.S. Philips Corporation. Self-adapting signal transformer. 3,443,117, 5-6-69, Cl. 307-88.
Schuh, John E.: *See—*
Chelmo, Leon A.; and Schuh, John E.,3,460,262.
Schuhe, Frank J. Instruction device. 3,470,628, 10-7-69, Cl. 35-29.
Schuhmann, Kurt: *See—*
Wezel, Hans; and Schuhmann, Kurt,3,465,601.
Schuhmann, Paul: *See—*
Eggert, Joachim; Tronnier, Ernst; and Schuhmann, Paul,3,420,602.
Schuitema, Howard J.: *See—*
Templeton, John Glenn; and Schuitema, Howard J.,3,459,297.
Schuitemaker, Jan Jacob: *See—*
Beuvens, Herman Joseph Hendrik; and Schuitemaker, Jan Jacob,3,465,193.
Schulde, Felix: *See—*
Hartmann, Werner; Schleede, Dietrich; and Schulde, Felix,3,431,203.
Schulde, Felix; and Schleede, Dietrich, to Hercules Incorporated. Polyolefinic compositions having improved mechanical properties. 3,462,389, 8-19-69, Cl. 260-41.
Schulde, Felix; and Winter, Jakob, to Hercules Incorporated, mesne. Stabilized polypropylene containing carbon black and a thiodicarboxylic acid alkyl ester. 3,424,709, 1-28-69, Cl. 260-41.
Schuldt, Carl F., to International Harvester Company. Knotter. 3,441,302, 4-29-69, Cl. 289-14.
Schule, Albert. Check valve. 3,448,766, 6-10-69, Cl. 137-525.
Schulein, Benjamin M., Jr.: *See—*
Schulein, Benjamin M.; and Schulein, Benjamin M., Jr.,3,425,397.
Schulein, Benjamin M.; and Schulein, Benjamin M., Jr., to Neumond, Inc. Animal litter preparation. 3,425,397, 2-4-69, Cl. 119-1.
Schulein, Joseph. Receiver apparatus for distinguishing a narrow frequency band from a wide frequency band containing the narrow band. 3,439,277, 4-15-69, Cl. 325-474.
Schulenberg, John W., to Sterling Drug Inc. 1-Phenylbenzimidazole-2-methanol. 3,431,274, 3-4-69, Cl. 260-309.2
Schulenburg, Edward J., to Time-O-Matic, Inc. Electric sign structure. 3,455,046, 7-15-69, Cl. 40-132.
Schuler, Chester L.; Margolien, David H.; and Blatt, Fred M., to Unitrode Corporation. High voltage rectifier. 3,452,267, 6-24-69, Cl. 321-27.
Schuler, Claus C., to International Business Machines Corporation. Method for producing thin films of rare earth chalcogenides. 3,451,845, 6-24-69, Cl. 117-201.
Schuler, Dominik: *See—*
Kindler, Hubert; and Schuler, Dominik,3,423,391.
Platz, Rolf; Nohe, Heinz; and Schuler, Dominik,3,437,431.
Schuler, L., G.m.b.H.: *See—*
Finsterwalder, Kurt, 3,448,604.
Finsterwalder, Kurt, 3,477,270.
Schuler, Mathias John; and Smeltz, Kenneth Cleon, to Du Pont de Nemours, E. I., and Company. Electrolytic process for making tetraalkylammonium polybromides. 3,432,409, 3-11-69, Cl. 204-72.
Schuler, Norman W.: *See—*
Haas, Howard C.; and Schuler, Norman W.,3,444,150.
Schuler, Robert K., to General Motors Corporation. Photocell plastic housing with plug section. 3,483,392, 12-9-69, Cl. 250-239.
Schuler, Rolf, to Evog, Etablissement fur Verwaltung. Manufacture of fermented milk products. 3,480,443, 11-25-69, Cl. 99-59.
Schuler, Thomas C.: *See—*
Bassett, Arthur T., Jr.; Cook, Cleo E.; and Schuler, Thomas C.,3,473,733.
Schuler, Wilhelm A.; and Klebe, Hans, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Thiophenylpyridyl amine, chlorothiophenylpyridyl amine, their salts and preparation. 3,457,261, 7-22-69, Cl. 260-243.
Schuler, Wilhelm Alfons, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Separation of azaphenothiazines from mixtures thereof with phenyl pyridyl amines. 3,427,312, 2-11-69, Cl. 260-243.
Schuler, Wilhelm Alfons; Schlichtegroll, Ansgar V.; Beschke, Helmut; and Klingler, Karl-Heinz, to Hoffmann-La Roche Inc.α-Methylphenethylamino anorectic compositions and use. 3,485,926, 12-23-69, Cl. 424-330.
Schulin, Gotthilf, to Wacker-Werke KG, mesne. Oscillating working device. 3,460,637, 8-12-69, Cl. 175-56.
Schulken, Roger M., Jr.: *See—*
Smith, James G.; Kibler, Charles J.; and Schulken, Roger M., Jr.,3,483,157.
Schuller, Barry; and Specht, August J., to Allied Chemical Corporation. Aliphatic guanamine-formaldehyde resins. 3,428,585, 2-18-69, Cl. 260-17.3
Schuller, James J.: *See—*
Aquino, Herman A.; Ferris, Ray L.; Mundinger, William A.; and Schuller, James J.,3,471,044.
Schuller, James T., to UMC Industries, Inc. Cellular magazine type dispensing apparatus. 3,469,738, 9-30-69, Cl. 221-75.
Schuller, James T.; Haeusser, Harry C.; and Smith, Barry L., to UMC Industries, Inc. Control and change maker for a vendor. 3,477,556, 11-11-69, Cl. 194-17.
Schuller, Max J., to Hewlett-Packard Company. Method of making a reliable low-ohmic non- rectifying semiconductor body. 3,484,796, 12-16-69, Cl. 29-578.
Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Diepoxide from levopimaric acid transannular peroxide. 3,463,769, 8-26-69, Cl. 260-99.
Schuller, Werner Hugo Wilhelm: *See—*
Schuller, Wolfgang; and Hohlfeld, Harald, 3,425,204.
Schuller, Wolfgang; and Hohlfeld, Harald, to Schuller, Werner Hugo Wilhelm. Method and apparatus for manufacturing twisted fiber strands from staple fibers, especially from glass staple fibers. 3,425,204, 2-4-69, Cl. 57-58.89
Schulman, Hyman L.: *See—*
Di Marco, Gabriel Robert; Hogan, John F., Jr.; Schulman, Hyman L.; and Strandskov, Frede B.,3,443,972.
Strandskov, Frede B.; and Schulman, Hyman L.,3,463,860.
Schulman, Marvin, to United States of America, Navy. Acceleration control platform. 3,466,932, 9-16-69, Cl. 73-432.
Schulman, Marvin: *See—*
Pfluger, Richard A.; Schulman, Marvin; and Hertzendorf, Martin S.,3,482,990.
Pitchon, Esra; Feldbrugge, Alonzo H.; and Schulman, Marvin,3,482,987.
Schulman, Norman S. Spring actuated safety switch assembly. 3,487,183, 12-30-69, Cl. 200-61.89
Schulpen, Karel H. N. Device for the manufacture of objects of yieldably deformable material. 3,431,802, 3-11-69, Cl. 83-4.
Schuls, Philip G.: *See—*
Myers, Eldred M.; and Schuls, Philip G.,3,452,278.
Schulte, Friedrich: *See—*
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich,3,433,586.
Harnisch, Heinz; Cremer, Joseph; and Schulte, Friedrich,3,464,786.
Schulte, Hans Helmut: *See—*
Barten, Piet Gerard Joseph; and Schulte, Hans Helmut,3,487,251.
Schulte, Harry J., Jr.: *See—*
Herriott, Donald R.; and Schulte, Harry J., Jr.,3,437,954.
Schulte, Johann F., to General Electric Company. Wastewater treatment method. 3,463,726, 8-26-69, Cl. 210-8.
Schulte, Karl; Fruhstorfer, Wolfgang; Muller, Heinrich; Friebel, Hans; Enenkel, Hans Joachim; and Gillissen, Josef, to Merck, E., A.G. 1-Hydroxy-2-amino-1-phenyl- alkanes and the salts thereof. 3,461,164, 8-12-69, Cl. 260-570.6
Schulte, Rudolf R. Drain tube with adjusting friction lock. 3,444,861, 5-20-69, Cl. 128-350.
Schulte, Rudolf R. Method for making an anatomical check valve. 3,445,916, 5-27-69, Cl. 29-529.
Schulten, Rudolf; Bohn, Thomas; Hecker, Rudolf; and Baurmann, Karl-Wilhelm, to Kernforschungsanlage Julich des Landes Nordrhein- Westfalen-e.V. Method of and apparatus for the treatment of graphite-coated particles for nuclear reactors and the like. 3,453,090, 7-1-69, Cl. 23-324.
Schultheis, Harry B., Jr., to Dillon, W. C., & Company, Inc. Coaxial load cell. 3,460,382, 8-12-69, Cl. 73-141.
Schultz, Arthur Haym Gold, to Paper Ware Ltd. Bibs. 3,452,363, 7-1-69, Cl. 2-49.
Schultz, Arthur J. Fishing lure holders. 3,453,770, 7-8-69, Cl. 43-57.5
Schultz, Arthur P.: *See—*
Reid, Gilbert R.; and Schultz, Arthur P.,3,448,514.
Schultz, Cramer W.: *See—*
Fuschillo, Nicholas; and Schultz, Cramer W.,3,422,636.
Schultz, Dennis R., to FMC Corporation. Yielding mount for separator conveyor on legume harvester. 3,469,677, 9-30-69, Cl. 198-208.
Schultz, Donald A. Astable multi-vibrator pulse generator. 3,465,263, 9-2-69, Cl. 331-144.
Schultz, Donald F., Jr.: *See—*
Milne, George W.; and Schultz, Donald F., Jr.,3,451,591.
Schultz, Edward H., Jr., to Nagel-Schase Manufacturing Company. Caster bracket device. 3,478,381, 11-18-69, Cl. 16-29.
Schultz, Elisabeth S. W. M. Method of continuously producing dry rosin size. 3,468,686, 9-23-69, Cl. 106-238.
Schultz, Eugene L.: *See—*
Hobbs, James C., II; Jones, Alan Richardson; and Schultz, Eugene L.,3,446,400.
Jones, Alan Richardson; and Schultz, Eugene L.,3,484,024.
Schultz, Everett M., to Merck & Co., Inc. (2-Alkylideneal-kanoyl)phenoxy derivatives of acetonitrile. 3,431,291, 3-4-69, Cl. 260-465.
Schultz, Everett M.; and Cragoe, Edward J., Jr., to Merck & Co., Inc. 4-(2-Nitro-1-alkenyl)aryloxy/alkanoic acids. 3,445,503, 5-20-69, Cl. 260-471.
Schultz, Everett M.: *See—*
Sprague, James M.; and Schultz, Everett M.,3,453,312.

Schultz, Frederick C., to Laboratory Equipment Corporation. Method and apparatus for the direct determination of gases. 3,427,863, 2-18-69, Cl. 73-23.1
Schultz, Frederick C.; McFaul, Gordon P.; and Lim, Franklin, to Laboratory Equipment Corporation. Enzymatic analysis. 3,421,982, 1-14-69, Cl. 195-103.5
Schultz, George M.: *See—*
Fortescue, Peter; Ringsmuth, Richard J.; and Schultz, George M.,3,448,006.
Schultz, George, to Industrial Shoe Machinery Corporation. Cyclic shoe conditioner. 3,483,577, 12-16-69, Cl. 12-1.
Schultz, George; and Dziki, Michael Mieczslaw, to Industrial Shoe Machinery Corporation. Box toe forming machine. 3,442,743, 5-6-69, Cl. 156-245.
Schultz, Harold B., to Bendix Corporation, The. Control valve. 3,445,142, 5-20-69, Cl. 303-53.
Schultz, Harold B., to Bendix Corporation, The. Fluid pressure control valve. 3,459,226, 8-5-69, Cl. 137-627.5
Schultz, Harold B., to Bendix Corporation, The. Fluid pressure control valve. 3,466,099, 9-9-69, Cl. 303-52.
Schultz, Herbert: *See—*
Volkner, Wolfgang; Sonksen, Arno; and Schultz, Herbert,3,420,476.
Schultz, Herman S., to GAF Corporation. Preparation of esters by carbonylation of alcohols. 3,449,408, 6-10-69, Cl. 260-488.
Schultz, Herman S., to GAF Corporation. Process for obtaining crystalline polyvinyl methyl ether of a predetermined molecular weight. 3,459,723, 8-5-69, Cl. 260-91.1
Schultz, John C., to Houdaille Industries, Inc. Direct drive vehicle wheel mount. 3,468,390, 9-23-69, Cl. 180-66.
Schultz, John, Jr.: *See—*
Vedder, Willem; and Schultz, John, Jr.,3,477,058.
Schultz, John M., to Borg-Warner Corporation. Cooling system for hermetic dynamoelectric devices. 3,445,695, 5-20-69, Cl. 310-58.
Schultz, Porter F., Jr., to Gates Radio Company. Variable transformer having one coil conductor within the other. 3,436,708, 4-1-69, Cl. 336-139.
Schultz, Porter F., Jr., to Gates Radio Company. Shunt fed Pi-L output network. 3,437,931, 4-8-69, Cl. 325-172.
Schultz, Robert F., to National Dairy Products Corporation. Apparatus for forming an edible product. 3,427,999, 2-18-69, Cl. 107-1.
Schultz, Robert G., to Monsanto Company. Substituted pi-allyl palladium chloride complexes. 3,446,825, 5-27-69, Cl. 260-429.
Schultz, Robert J., to Embart Corporation. Bottle rinsing machine. 3,481,348, 12-2-69, Cl. 134-126.
Schultz, Robert J.; and Conforti, Fred J., to Motorola, Inc. DC to DC converter regulator. 3,453,521, 7-1-69, Cl. 321-2.
Schultz, Robert L.; and Larson, Harold F. Flush valve device. 3,462,767, 8-26-69, Cl. 4-57.
Schultz, Roger C.: *See—*
Phillips, Duane E.; Schultz, Roger C.; and Beck, Herbert H.,3,461,984.
Schultz, Roger O.; and Horvath, Joseph L., to Warner & Swasey Company, The. Chuck mechanism. 3,464,710, 9-2-69, Cl. 279-4.
Schultz, Rudd. Automotive headlamp safety system with the alternate substitution of filament. 3,479,557, 11-18-69, Cl. 315-83.
Schultz, Silas L.; and Kerznar, Edward R. Decelerating and distress light. 3,461,425, 8-12-69, Cl. 340-71.
Schultz, Thomas Peter. Amusement device comprising marker holding playing boards and marker dispensing means. 3,436,080, 4-1-69, Cl. 273-135.
Schultz, Vernon A.: *See—*
Colvin, Donald; and Schultz, Vernon A.,3,476,675.
Schultz, Werner; and Bemerl, Wolfgang, to Patent-Treuhand-Gesellschaft fur Elektrishe Gluhlampen mbH. Series flash device. 3,452,660, 7-1-69, Cl. 95-11.5
Schultz, Wilfred R., to Eaton Yale & Towne, Inc., mesne. Multiple check valve. 3,476,142, 11-4-69, Cl. 137-512.
Schultz, William G., to United States of America, Agriculture. Process for extraction of flavors. 3,477,856, 11-11-69, Cl. 99-105.
Schultze, Hans-Joachim; Zbinden, Walter; and Berther, Clau, to Inventa A.G. fur Forschung und Patentverwertung. Process for the simultaneous production of epsilon-caprolactam and omega-dodecalactam. 3,470,153, 9-30-69, Cl. 260-239.3
Schultze, Werner, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method of keeping color deviations within tolerance limits. 3,423,223, 1-21-69, Cl. 106-287.
Schulz, Alfred: *See—*
Adam, Karl; Schulz, Alfred; Haarer, Erich; and Winderl, Siegfried,3,476,793.
Dopper, Otto; Bollig, Georg; Schroder, Egbert; Kuppers, Klaus; and Schulz, Alfred,3,469,429.
Schulz, Alfred, to U.S. Philips Corporation, mesne. Circuit arrangements for automatic signal-seeking. 3,456,197, 7-15-69, Cl. 325-471.
Schulz, Allan E.; and Doniger, Jerry, to Bendix Corporation. Automatic test device. 3,448,449, 6-3-69, Cl. 340-413.
Schulz, Arthur A.: *See—*
Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A.,3,468,669.
Schulz, Arthur C., to Hooker Chemical Corporation. Process for the oxychlorination of organic compounds. 3,420,901, 1-7-69, Cl. 260-659.
Schulz, Arthur C., to Hooker Chemical Corporation. Process for manufacturing trialkyl phosphite. 3,445,548, 5-20-69, Cl. 260-982.
Schulz-Du Bois, Erich O., to Bell Telephone Laboratories, Incorporated: Pulse bias circuit utilizing a half-wavelength section of delay line. 3,444,483, 5-13-69, Cl. 333-29.
Schulz, Edmund L.: *See—*
Thomas, Francis H.; Headrick, Hugh M.; and Schulz, Edmund L.,3,422,046.
Schulz, Egon; and Hehnen, Jsef, to International Standard Electric Corporation. Multiple emitter transistor with improved frequency and power characteristics. 3,453,503, 7-1-69, Cl. 317-235.
Schulz, Egon: *See—*
Pfander, Hans; Schulz, Egon; and Wirth, Anton,3,471,752.
Schulz, Eugene A., to Crane Packing Company. Lapping machine with automatic loading and unloading means. 3,443,342, 5-13-69, Cl. 51-131.
Schulz, Gerhard: *See—*
Sperber, Heinrich; Schulz, Gerhard; Palm, Christof; and Koechler, Waldemar,3,483,214.
Schulz, Gunter; and Roethke, Ernst, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Apparatus for gripping bobbins on textile machines. 3,462,934, 8-26-69, Cl. 57-52.
Schulz, Heinz; Arndt, Friedrich; Hoyer, Georg-Alexander; and Rusch, Reinhart, to Schering A.G. Herbicidal 3-methyl-5-ureidoisothiazoles. 3,454,591, 7-8-69, Cl. 260-306.8
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo, to Gulf Research & Development Company. Process for oxidizing a 1,1-bis-(alkyl-phenyl) alkane. 3,424,789, 1-28-69, Cl. 260-517.
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo, to Gulf Research & Development Company. Oxidation of alkyl aromatic compounds to aromatic carboxylic acids. 3,467,698, 9-16-69, Cl. 260-524.
Schulz, Johann G. D.: *See—*
Lese, Henri K.; McCracken, John H.; and Schulz, Johann G. D.,3,448,146.
Lese, Henri K.; Schulz, Johann G. D.; and Whitaker, Arthur C.,3,479,400.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C.,3,453,321.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C.,3,466,301.
Schulz, John F.; and Tuccillo, Joseph J., to Jelenko, J. F., & Co., Inc. Dental model with teeth-retainer pins. 3,458,936, 8-5-69, Cl. 32-71.
Schulz, Karl, to Continental Gummi-Werke Aktiengesellschaft. Sliding bearing with yieldably journalled bushing. 3,424,503, 1-28-69, Cl. 308-26.
Schulz, Peter R., to International Business Machines Corporation. Method for adjusting contacts in reed switches. 3,432,282, 3-11-69, Cl. 65-32.
Schulz, Robert R., to Bell Telephone Laboratories, Incorporated. Transfluxor current detecting circuit. 3,459,958, 8-5-69, Cl. 307-88.
Schulz Tool and Manufacturing Co.: *See—*
Hieber, Ellsworth E., 3,475,001.
Schulz, Wallace W.; Schiefelbein, Gary F.; and Bruns, Lester E., to United States of America, Atomic Energy Commission. Method for recovering poloium-210 from bismuth. 3,463,739, 8-26-69, Cl. 252-301.1
Schulz, Werner: *See—*
Zeile, Karl; Banholzer, Rolf; Walther, Gerhard; Schulz, Werner; and Wick, Helmut,3,472,861.
Schulz, Wolfram: *See—*
Pfleger, Robert; Bertholdt, Heinz; and Schulz, Wolfram,3,480,626.
Schulze, Guenther; and Heck, Karl-Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. High pressure synthesis reactor for exothermic gas reactions. 3,477,828, 11-11-69, Cl. 23-289.
Schulze, Harald, to Leybold-Heraeus-Verwaltung G.m.b.H. Demonstration model of a hot air motor and pump. 3,481,142, 12-2-69, Cl. 60-24.
Schulze, Heinz: *See—*
Hahn, Werner; Planert, Wolfgang; Schulze, Heinz; and Wolf, Heinz,3,421,421.
Langnau, Kurt; Hennig, Walter; Strehle, Horst; and Schulze, Heinz,3,481,259.
Schulze, Helmut: *See—*
Sommer, Erwin; Manegold, Jost-Henrich; and Schulze, Helmut,3,483,167.
Schulze, James W., Jr., to LTV Electrosystems, Inc. Flow control valve. 3,485,264, 12-23-69, Cl. 137-486.
Schulze, Leroy E. Fiber opener and cleaner. 3,457,595, 7-29-69, Cl. 19-203.
Schulze, Martin: *See—*
Luther, Guenter; Schulze, Martin; and Richter, Klaus,3,434,936.
Luther, Gunter; Ludwig, Jurgen; and Schulze, Martin,3,445,537.

Schulze, Reinhard: *See—*
Brede, Ernst; Schulze, Reinhard; and Thebis, Eberhard,3,486,379.
Schulze, William M. Portable grill. 3,478,676, 11-18-69, Cl. 99-357.
Schumacher, Edward B.: *See—*
Clark, Earl C.; and Schumacher, Edward B.,3,470,678.
Fiocco, Robert J.; Schumacher, Edward B.; and Sommer, Edward C.,3,454,180.
Schumacher, Edward R.: *See—*
Schimitschek, Erhard J.; and Schumacher, Edward R.,3,451,007.
Schumacher, Erwin A.; and Clark, Milton B., to Union Carbide Corporation. Method for starting operation of a sodium amalgam-oxidant fuel cell. 3,427,199, 2-11-69, Cl. 136-86.
Schumacher, Hermann, to Boehringer G.m.b.H., Gebr. Control mechanism for a lathe. 3,426,628, 2-11-69, Cl. 82-22.
Schumacher, Joseph C.; Rado, Theodore A.; and Fairchild, James L., to American Potash & Chemical Corporation. Process for producing boric oxide. 3,450,497, 6-17-69, Cl. 23-149.
Schumacher, Joseph S. Method of handling and cooling foundry sand. 3,461,941, 8-19-69, Cl. 164-5.
Schumacher, Karl: *See—*
Greulich, Heinz; Schumacher, Karl; Leinauer, Erich; and Widl, Gerhard,3,471,824.
Schumacher, Rolf, to Fischer, Karl Apparate-u. Rohrleitungsbau. Process for the manufacture of paraformaldehyde. 3,461,171, 8-12-69, Cl. 260-615.5
Schumacher, Rudolf: *See—*
Baxmann, Fritz; Bursian, Wolfgang; and Schumacher, Rudolf,3,470,113.
Schumacher, Walter C.; and Sheldon, Luther M., to General Electric Company. Reinforced caps and connectors. 3,461,417, 8-12-69, Cl. 339-14.
Schumacher, Warner A. J., to Vendo Company, The. Convertible baffle support unit for staggered stack bottle or can vender. 3,454,193, 7-8-69, Cl. 221-67.
Schumacher, William Ludlow, to AMP Incorporated. Separable electrical connector housing assemblies. 3,434,098, 3-18-69, Cl. 339-91.
Schumacher, William Ludlow, to AMP Incorporated. High voltage coaxial connector. 3,474,532, 10-28-69, Cl. 29-628.
Schumacher'sche Fabrik:*See—*
Beuthe, Carl-Georg, 3,436,341.
Schumag Schumacher Metallwerke Gesellschaft mit beschrankter Haftung: *See—*
Gosche, Volker, 3,468,189.
Schuman, Albert. Concrete core drill. 3,464,655, 9-2-69, Cl. 248-13.
Schuman, Arthur H. Nonfouling folding boat anchor. 3,485,199, 12-23-69, Cl. 114-208.
Schuman, Seymour C.: *See—*
Hellwig, Katherine C.; and Schuman, Seymour C.,3,471,580.
Schumann, Eduard; and Horn, Heinz, to Salzgitter Stahlbau G.m.b.H. Storage arrangement. 3,465,897, 9-9-69, Cl. 211-151.
Schumann, Edward L., to Upjohn Company, The. Aralkoxyguanidines, aryloxyalkoxyguanidines and salts thereof in anorectic methods and compositions. 3,456,058, 7-15-69, Cl. 424-326.
Schumann, Joseph M.; Stayboldt, Paul J.; and Cook, Ralph J., to Products Research & Chemical Corporation, mesne. Sealant dispensing device. 3,439,839, 4-22-69, Cl. 222-95.
Schumann, Kurt: *See—*
Wezel, Walter; and Schumann, Kurt,3,435,522.
Schumann, Paul A., Jr.: *See—*
Gardner, Edward E.; Gorey, Edward F.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing,3,487,301.
Schumann, Paul A., to Robertshaw Controls Company. Constant surveillance alarm system for a plurality of remote locations. 3,447,145, 5-27-69, Cl. 340-213.1
Schumann, Paul A., to Robertshaw Controls Company. Constant surveillance alarm system. 3,451,058, 6-17-69, Cl. 340-412.
Schundehutte, Karl-Heinz; and Trautner, Kersten. Metal phthalocyanine dyestuffs containing a dihaloisothiazole carboxamido group. 3,480,641, 11-25-69, Cl. 260-299.
Schundehutte, Karl-Heinz; Trautner, Kersten; Horstmann, Walter; and Jager, Horst, to Farbenfabriken Bayer Aktiengesellschaft. Sulphonylamino benzothiazole containing phthalocyanine dyestuffs. 3,484,450, 12-16-69, Cl. 260-299.
Schundehutte, Karl-Heinz: *See—*
Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus,3,480,611.
Schunemann, Rudiger; and Sippekamp, Oskar, to Siemens Aktiengesellschaft. Current supply for transmitters. 3,421,087, 1-7-69, Cl. 325-151.
Schunk, George J. Measuring device. 3,438,134, 4-15-69, Cl. 33-143.
Schunk, Roland: *See—*
Frank, Albert; Kraushaar, Alfred; Margreiter, Hans; and Schunk, Roland,3,432,490.
Schuon, Eberhard: *See—*
Hoffmann, Wolfgang; Neuscheler, Friedrich; and Schuon, Eberhard,3,474,356.
Schuplin, Jerome T., to Tinnerman Products, Inc. Fastening device. 3,465,992, 9-9-69, Cl. 248-71.
Schupp, Karl: *See—*
Moller, Heinz; and Schupp, Karl,3,422,421.
Schuppisser, Armin: *See—*
Heierli, Werner; and Schuppisser, Armin,3,478,481.
Schuppisser, Armin; and Heierli, Werner, to Heierli & Co. Overfilled arch-shaped load support structure. 3,482,406, 12-9-69, Cl. 61-16.
Schurdak, Edward J.: *See—*
Davis, Stanley M.; Voorhies, John D.; and Schurdak, Edward J.,3,468,708.
Schurenberg, Wilhelm: *See—*
Baumann, Kurt; and Schurenberg, Wilhelm,3,455,331.
Schurich, Herbert, to Karl Steinhof Apparatefabrik, Firma. Cam carriage for knitting machine. 3,429,145, 2-25-69, Cl. 66-78.
Schurle, Werner; Muller, Anton; and Witzel, Gunter, to Eisen-und Drahtwerk Erlau A.G. Chain link for anti-skid and tire-protective chains. 3,429,353, 2-25-69, Cl. 152-243.
Schurman, Peter T.; and Confer, Raymond C., to Grace, W. R., & Co., mesne. Plastic container. 3,441,071, 4-29-69, Cl. 150-0.5
Schurman, Peter T.; and Confer, Raymond C., to Grace, W. R., & Co. Method of and apparatus for blow molding thermoplastic material. 3,452,125, 6-24-69, Cl. 264-89.
Schuske, Clarence L. Electrical AC induction meter having floating ring movement. 3,483,469, 12-9-69, Cl. 324-150.
Schussler, Hans: *See—*
Borner, Manfred; and Schussler, Hans,3,437,848.
Schussler, Mortimer, to Union Carbide Corporation. Columbium base alloy. 3,436,214, 4-1-69, Cl. 75-174.
Schuster, Dietrich. Secondary aminoalcohol-boric acid reaction product and production thereof. 3,429,909, 2-25-69, Cl. 260-462.
Schuster, Donald Ray: *See—*
Merklin, Edward Robert; and Schuster, Donald Ray,3,420,292.
Schuster, Donald Robert; and Merklin, Edward Roy. Unit ventilator. 3,443,506, 5-13-69, Cl. 98-39.
Schuster, Ludwig K.; and Baldi, Alfonso L., Jr., to Pennwalt Corporation. Protective coated asbestos cement panels. 3,472,681, 10-14-69, Cl. 117-126.
Schuster, Ludwig K.; and Tongyai, Singkata, to Pennsalt Chemicals Corporation. Coating cementitious articles with hexavalent chromium-resinous dispersions. 3,421,934, 1-14-69, Cl. 117-123.
Schuster, Ludwig: *See—*
Kiefer Hans; Raff, Paul; and Schuster, Ludwig,3,432,552.
Lautenschlager, Walter; Srna, Christian; and Schuster, Ludwig,3,427,363.
Schuster, Marvin A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,318.
Schuster, Marvin A.; List, William F.; and Reinitz, Karl, to Westinghouse Electric Corporation. Mosaic of semiconductor elements interconnected in an XY matrix. 3,448,344, 6-3-69, Cl. 317-101.
List, William F.; and Schuster, Marvin A.,3,480,780.
Schuster, Nick A., to Schlumberger Technology Corporation. Methods and apparatus for improving the resolution of well logging measurements. 3,457,496, 7-22-69, Cl. 324-1.
Schuster, Nick A., to Schlumberger Technology Corporation. Methods and apparatus for improving the resolution of well logging measurements including signal correction. 3,457,497, 7-22-69, Cl. 324-1.
Schuster, Nick A., to Schlumberger Technology Corporation. Methods and apparatus for improving the resolution of well logging measurements. 3,457,498, 7-22-69, Cl. 324-1.
Schuster, Nick A., to Schlumberger Technology Corporation. Methods and apparatus for improving the resolution of well logging measurements. 3,457,500, 7-22-69, Cl. 324-1.
Schuster, Nick A.: *See—*
Codrington, Robert S.; and Schuster, Nick A.,3,456,183.
Schuster, Ronald: *See—*
Cibula, William G.; and Schuster, Ronald,3,444,378.
Schuster, Samuel J. Readily opened package for storing items in bacteria-free condition. 3,472,369, 10-14-69, Cl. 206-63.2
Schuster, Wilhelm, to Forschungsgemeinschaft der Deutschen Filztuchindustrie. Method of improving papermaker's felt. 3,463,657, 8-26-69, Cl. 117-65.2
Schuster, Wilhelm, to Duffner, Karl Heinz, and Duffner, Wolfgang. Surgical dressing and method of producing the same. 3,482,570, 12-9-69, Cl. 128-156.
Schuster, Wilhelm: *See—*
Nowak, Rudolf; and Schuster, Wilhelm,3,466,169.
Schut, Gerhardus H.: *See—*
Blachut, Theodore J.; Schut, Gerhardus H.; and Smialowski, Antoni J.,3,486,820.
Schut, Robert Norman, to Miles Laboratories Inc.2,3,4,67,12-Hexahydroindolo [2,2,-a] quinolizine- methyl vinyl ketone adducts. 3,480,633, 11-25-69, Cl. 260-288.
Schutt, Hartwig, to Henkel & Cie G.m.b.H. Process for the preparation of tertiary amines. 3,444,204, 5-13-69, Cl. 260-583.
Schutt, Hermann C., to Fluor Corporation, Ltd., The. Still and column with submerged combustion burners in the still. 3,432,399, 3-11-69, Cl. 202-153.

Schutt, John B.; and Shai, Charles M., to United States of America, National Aeronautics and Space Administration. Alkali-metal silicate protective coating. 3,454,410, 7-8-69, Cl. 106-74.
Schutte and Koerting Company: *See*—
Gosling, Rolf, 3,456,871.
Schutte, August H., to Little, Arthur D., Inc. Solid-fluid separating device. 3,443,696, 5-13-69, Cl. 210-297.
Schutte, Helmut; Taschen, Gunter; and Berger, Karl, to Institut fur Lacke und Farben. Method and apparatus for making paints. 3,425,667, 2-4-69, Cl. 259-7.
Schutte, Reinhold: *See*—
Janssen, Hans-Joachim; and Schutte, Reinhold,3,434,723.
Schutte,Alfred H.: *See*—
Sylla,Willi, 3,453,913.
Schuttenberg, Elmer H. Stencil marking apparatus. 3,483,820, 12-16-69, Cl. 101-127.1
Schutz, Erich H., to Lear Siegler, Inc., mesne. Spring clip. 3,422,468, 1-21-69, Cl. 5-259.
Schutz, Manfred, to Bolkow Gesellschaft mit Beschrankter Haftung. Rocket combustion chamber construction. 3,468,128, 9-23-69, Cl. 60-261.
Schutz, Rudolf, to Polytype AG. Drive shaft with inflatable tube coupling. 3,473,640, 10-21-69, Cl. 192-88.
Schutz, Siegismund: *See*—
Aichinger, Gerd; Schutz, Siegismund; and Hoffmeister, Friedrich,3,431,257.
Schutz, Siegismund; and Hoffmeister, Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. 5β-N-Methylamino-ethoxyimino-5H-dibenzo-[a,d] 10,11-dihydrocycloheptene and non-toxic pharmaceutically acceptable salts thereof and their production. 3,441,608, 4-29-69, Cl. 260-566.
Schutze, Benno: *See*—
Baumann, Ludwig; and Schutze, Benno,3,421,428.
Schutze, Gunter R.: *See*—
Hanessian, Stephen; and Schutze, Gunter R.,3,457,257.
Schutze, Hans-Jurgen; and Hennings, Klaus, to Telefunken Patentverwertungsgesellschaft m.b.H. Semiconductor fabrication. 3,419,955, 1-7-69, Cl. 29-577.
Schutze, Hans-Jurgen; and Hennings, Klaus, to Telefunken Patentverwertungsgesellschaft m.b.H. Semiconductor. 3,427,708, 2-18-69, Cl. 29-580.
Schutze, Hans-Jurgen; and Hennings, Klaus, to Telefunken Patentverwertungsgesellschaft m.b.H. Production of circuit device. 3,427,709, 2-18-69, Cl. 29-580.
Schutze, Hans-Jurgen; and Hennings, Klaus, to Telefunken Patentverwertungsgesellschaft m.b.H. Production of an electrical device. 3,461,548, 8-19-69, Cl. 29-577.
Schutze, Hans-Jurgen: *See*—
Hennings, Klaus; and Schutze, Hans-Jurgen,3,456,335.
Hennings, Klaus; and Schutze, Hans-Jurgen,3,462,322.
Hennings, Klaus; Schutze, Hans-Jurgen; and Ulbricht, Gerhard,3,462,650.
Schutze, Siegfried: *See*—
Hilbig, Erich; Ehrentraut, Heinz; Reimann, Hubertus; and Schutze, Siegfried,3,472,141.
Schutzler, Jerome C.: *See*—
Parechanian, Haig S.; and Schutzler, Jerome C.,3,430,898.
Schuur, Gerrit, to Shell Oil Company. Treatment of polyolefin-fatty acid salt mixtures with a hydrocarbon or halogenated hydrocarbon to improve dye receptivity. 3,424,704, 1-28-69, Cl. 260-23.
Schwab, Bernard: *See*—
Gollion, Henri-Jacques; Robin, Marcel; and Schwab, Bernard,3,421,978.
Schwab, Bruce B.: *See*—
Magda, Joseph A.; and Schwab, Bruce B.,3,448,621.
Schwab, Carl E.: *See*—
Hughson, J. Donald; and Schwab, Carl E.,3,482,046.
Schwab, Carl M.: *See*—
Brown, Joe R.; and Schwab, Carl M.,3,444,929.
Schwab, Erich: *See*—
Genahr, Rudolf; and Schwab, Erich,3,461,304.
Schwab, Erich, to Schneider, Jos., Feinwerktechnik, GmbH. Optical scanner converting analog into digital equivalent. 3,436,757, 4-1-69, Cl. 340-347.
Schwab, Erich; and Birkmann, Theo, to Siemens Aktiengesellschaft. Annular rotor supporting structure for synchronous machine. 3,462,627, 8-19-69, Cl. 310-162.
Schwab, Louis. Filter assemblage. 3,443,366, 5-13-69, Cl. 55-309.
Schwab, Louis. Filter assemblage for purifying a particle-laden gaseous flow. 3,474,599, 10-28-69, Cl. 55-497.
Schwab, Manfred, to Walter Koss offene Handelsgesellschaft. Handle-forming tongs-type device. 3,471,191, 10-7-69, Cl. 294-88.
Schwab, Milton I.: *See*—
Spitz, Albert W.; and Schwab, Milton I.,3,432,289.
Schwab, Ronald B.: *See*—
Gordon, Ernest S.; Schwab, Ronald B.; and Thunberg, Leander O.,3,425,415.
Schwab, Ronald W.: *See*—
Rosenfeld, Seymour; Schwab, Ronald W.; and Haucke, Paul A.,3,459,029.
Schwabe, Herman, Inc.: *See*—
Haas, Edgar; and Kottsieper, Edward, 3,428,232.
Haas, Edgar; and Kottsieper, Edward, 3,468,204.
Haas, Edgar; and Kottsieper, Edward, 3,472,109.
Schwachhofer, Ghislain; and Fritz, Jacques, to Progil. Mono-, di- or tri-phosphites of chlorophenyl amino alcohols. 3,476,835, 11-4-69, Cl. 260-944.
Schwahn, Josef, to Zeiss-Ikon Aktiengesellschaft. Photographic camera with selectively attachable flash units. 3,424,071, 1-28-69, Cl. 95-11.5
Schwahn, Josef: *See*—
Ruhle, Hans; Schottle, Ulrich; Thiele, Heinz; Schwahn, Josef; and Ritze, Arno,3,452,656.
Schwake, Paul, to Haver & Boecker. Doubly unbalanced drive for vibratory conveyors, sifting machines and the like. 3,473,396, 10-21-69, Cl. 74-61.
Schwake, Paul; and Bruder, Alfred, to Haver & Boecker. Apparatus for filling bags with bulk materials. 3,474,836, 10-28-69, Cl. 141-67.
Schwalbe, Hellmuth C., to Mead Corporation, The. Starch adhesive and process for its preparation. 3,450,549, 6-17-69, Cl. 106-210.
Schwall, Fritz: *See*—
Ibing, Guenther; Schirrmacher, Hermann; Vollmer, Herbert; Boemelburg, Josef; and Schwall, Fritz,3,434,807.
Schwalley, Lawrence La Berne, to United States Borax & Chemical Corporation. Laundry compositions and method for making same. 3,481,878, 12-2-69, Cl. 252-97.
Schwalley, Lawrence L., to United States Borax & Chemical Corporation. Detergent compositions. 3,461,074, 8-12-69, Cl. 252-109.
Schwallie, Cletus R.; and Riegner, Earl I., to Boeing Company, The. Technique for deformation analysis. 3,477,284, 11-11-69, Cl. 73-88.
Schwalm, Glendon Henry: *See*—
Fritz, Coey William; and Schwalm, Glendon Henry,3,484,922.
Schwalm, Glendon Henry; and Fritz, Coey William, to AMP Incorporated. Sleeve assembling and insulation stripping apparatus for coaxial cable. 3,484,936, 12-23-69, Cl. 29-628.
Schwam, Harvey, to Merck & Co., Inc. Tetrahydropyranyl tyrosine N-carboxy (and thiocarboxy)anhydrides. 3,467,667, 9-16-69, Cl. 260-307.
Schwan, Bernhard: *See*—
Sachs, Ernst; and Schwan, Bernhard,3,480,759.
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann, Peter, to Geigy, J. R., A.G. 1-Alkylamino-4-arylamino-anthraquinone sulfonic acid reactive dyes. 3,455,969, 7-15-69, Cl. 260-372.
Schwander, Hans Rudolf; Jung, Jean-Pierre; and Hindermann, Peter, to Geigy, J. R., A.G. 1-Alkylamino-4-arylamino-anthraquinone sulfonic acid reactive dyes. 3,462,463, 8-19-69, Cl. 260-372.
Schwander, Hans Rudolf; Zenhausern, Anton; and Hindermann, Peter, to Geigy, J. R., A.G. Sulfonated 1-sec-alkylamino-4-aralkylamino- anthraquinones. 3,431,285, 3-4-69, Cl. 260-371.
Schwaneke, Fredrich C., to Northern Electric Company. Ironing board cord holder. 3,473,767, 10-21-69, Cl. 248-51.
Schwaneke, Fredrich C.: *See*—
Scheid, Theodore G., III; and Schwaneke, Fredrich C.,3,426,306.
Schwaninger, Claude L., to American Machine & Foundry Company. Apparatus for stretching pulses exceeding predetermined amplitude. 3,448,296, 6-3-69, Cl. 307-267.
Schwankl, Clarence H. Saw aiming device. 3,465,796, 9-9-69, Cl. 143-32.
Schwanter, Fritz: *See*—
Holzgruber, Wolfgang; Kleinhagauer, Othmar; and Schwanter, Fritz,3,439,103.
Schwarb, Gustav: *See*—
Renz, Jany; Bourquin, Jean Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,464,977.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,474,099.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav,3,478,022.
Schwardt, David N., to Eastman Kodak Company. Projection printer. 3,421,817, 1-14-69, Cl. 355-36.
Schwartz, Arnold, to Control Data Corporation, mesne. Transponder for monitoring T.V. program selections. 3,483,327, 12-9-69, Cl. 179-2.
Schwartz, Arthur. Tent supporting constructions. 3,425,428, 2-4-69, Cl. 135-15.
Schwartz, Arthur. Sinkable toy target. 3,434,716, 3-25-69, Cl. 273-86.
Schwartz, Arthur. Water gun target. 3,434,717, 3-25-69, Cl. 273-101.
Schwartz, Arthur; Arkwright, George A., Jr.; and Curtin, Thomas D. Electric iron and safety device therefor. 3,424,894, 1-28-69, Cl. 219-250.
Schwartz, Arthur; and Frederick, L. Day. Invalid mobility device. 3,463,146, 8-26-69, Cl. 128-25.

Schwartz, Benjamin, to DoAll Company, mesne. Ultrasonic magnetostrictive transducer element. 3,484,630, 12-16-69, Cl. 310-26.
Schwartz, Bernard L.: *See*—
Port, Morton I.; and Schwartz, Bernard L.,3,439,865.
Port, Morton I.; and Schwartz, Bernard L.,3,445,055.
Schwartz, Bernard; and Turk, Harold L., to International Business Machines Corporation. Unitized magnetic assembly. 3,478,340, 11-11-69, Cl. 340-174.1
Schwartz, Bertram: *See*—
Ermanis, Felix; and Schwartz, Bertram,3,484,312.
Schwartz, Boris. Intermixing syringe. 3,464,412, 9-2-69, Cl. 128-218.
Schwartz, Christian J., to Robbins & Myers, Inc. Method of making a double insulated armature. 3,477,125, 11-11-69, Cl. 29-596.
Schwartz, Daniel P.; Brewington, Charles R.; and Burgwald, Louis H., to United States of America, Agriculture. Rapid quantitative removal of natural sterols from lipids. 3,450,541, 6-17-69, Cl. 99-118.
Schwartz, Edmund I., to Devenco Incorporated. Matched signal transmitter-receiver arrangement. 3,432,754, 3-11-69, Cl. 325-38.
Schwartz, Edward N.: *See*—
Bartik, William J.; Chow, Woo Foung; and Schwartz, Edward N.,3,421,153.
Schwartz, Edward N., to Sperry Rand Corporation. Drive arrangement for memory device. 3,441,917, 4-29-69, Cl. 340-174.
Schwartz, Harold A., to Avisun Corporation, mesne. Polypropylene fabric with modified selvage. 3,470,928, 10-7-69, Cl. 150-1.
Schwartz, Harold O.; and Barry, Robert D., to Wurlitzer Company, The. Electronic organ pedal keying circuit with sustain and cancellation of sustain upon playing of subsequent pedal. 3,480,719, 11-25-69, Cl. 84-1.26
Schwartz, Harold O.; and Machanian, William V., to Wurlitzer Company, The. Transistorized Hartley oscillator tone generator circuit producing glissando and vibrato effects by voltage detuning. 3,440,325, 4-22-69, Cl. 84-1.25
Schwartz, Harold S., to Potter Instrument Company, Inc. Circuit for energizing an electromagnet. 3,435,299, 3-25-69, Cl. 317-148.5
Schwartz, Harold S., to Potter Instrument Company, Inc. Print hammer timing and energizing means in high speed printers. 3,443,514, 5-13-69, Cl. 101-93.
Schwartz, Henry A., to Color-Sonics, Inc., mesne. Multiprogram projection apparatus. 3,472,579, 10-14-69, Cl. 352-123.
Schwartz, Herbert S., to United States of America, Air Force. Method for the manufacture of pyrolytically coated filaments. 3,424,603, 1-28-69, Cl. 117-4.
Schwartz, Herbert S., to United States of America, Air Force. Fiber reinforced plastic composite material. 3,466,219, 9-9-69, Cl. 161-57.
Schwartz, Herbert. Cyclopropanecarboxanilides. 3,484,485, 12-16-69, Cl. 260-557.
Schwartz, Herbert; and Skaptason, Joseph B. Organotin or mercury (carboxy hydrocarbylene amides). 3,446,827, 5-27-69, Cl. 260-429.7
Schwartz, Herbert; and Skaptason, Joseph B. Novel alkylaminophenyl ureas. 3,484,484, 12-16-69, Cl. 260-553.
Schwartz, Hermann, to Perger, Siegfried. Photoelectric amplifier circuit with compensation for gradual illumination changes. 3,421,007, 1-7-69, Cl. 250-214.
Schwartz, Howard E., to Jetcut Corporation. Contour cutting device. 3,423,081, 1-21-69, Cl. 266-23.
Schwartz, Howard J.: *See*—
Rai, Vishva R.; and Schwartz, Howard J.,3,438,420.
Schwartz, Jack, to Admiral Corporation. Cermet resistance module. 3,441,895, 4-29-69, Cl.
Schwartz, James W., to National Video Corporation. Magnetic shielding means for cathode ray tube. 3,443,138, 5-6-69, Cl. 313-64.
Schwartz, James W., to National Video Corporation. Color television receiver with horizontal indexing. 3,469,024, 9-23-69, Cl. 178-5.4
Schwartz, James W.; and Javorik, Laszlo, to National Video Corporation. Suspension system for color television tube mask. 3,449,611, 6-10-69, Cl. 313-85.
Schwartz, James W.; and McCarthy, Daniel J., to National Video Corporation. Over-scanning shield provided in colored television tube between the mask support and the tube. 3,473,065, 10-14-69, Cl. 313-85.
Schwartz, Jerome, to Taylor Lock Company. Lock plug. 3,429,154, 2-25-69, Cl. 70-375.
Schwartz, Joseph I., to United States of America, Navy. Transducer calibration system. 3,456,484, 7-22-69, Cl. 73-1.
Schwartz, Lawrence, to Glenair, Inc. Multi-shielded cable grounding connector. 3,465,092, 9-2-69, Cl. 174-78.
Schwartz, Leonard, to General Precision Systems Inc. Triangular linear array configuration. 3,423,752, 1-21-69, Cl. 343-8.
Schwartz, Leonard, to Singer-General Precision, Inc. Planar array antenna arrangements. 3,471,857, 10-7-69, Cl. 343-16.
Schwartz, Louis. Adjustable lavatory. 3,486,175, 12-30-69, Cl. 4-170.
Schwartz, Melvin M.; and O'Keefe, Robert B., to Martin-Marietta Corporation. Fluxless brazing of aluminum. 3,457,630, 7-29-69, Cl. 29-494.
Schwartz, Milton. Map game apparatus comprising adhesive overlay members applicable to the map. 3,460,836, 8-12-69, Cl. 273-135.
Schwartz, Morris; and Bender, Werner K., to Kalart Company, Inc., The. Optical multiple track sound projector with stationary light source. 3,435,156, 3-25-69, Cl. 179-100.3
Schwartz, Natalie Pels, to Countess Natalie, Inc. Wind protective headgear. 3,423,763, 1-28-69, Cl. 2-171.
Schwartz, Natalie Pels; Voller, Norman L.; Hamman, Denver C.; and Chapman, Robert E., to Countess Natalie, Inc., mesne. Collapsible wig stand. 3,465,926, 9-9-69, Cl. 223-67.
Schwartz, Nelson N., to Thiokol Chemical Corporation. Preparation of lower fatty acids esters of carborane alcohols. 3,437,688, 4-8-69, Cl. 260-491.
Schwartz, Nelson Norman: *See*—
Lee, Nathan Dean; and Schwartz, Nelson Norman,3,432,267.
Schwartz, Norbert C., to Pennsalt Chemicals Corporation. Process for depositing brass-like coatings and composition therefor. 3,460,953, 8-12-69, Cl. 106-1.
Schwartz, Otto H., to Zenith Radio Corporation. VHF/UHF tuning mechanism for a television receiver. 3,438,273, 4-15-69, Cl. 74-10.45
Schwartz, Robert A. D.; and Pfeiffer, Philip W., to United Lighting and Ceiling Co. Hanger assembly for modular panels. 3,480,246, 11-25-69, Cl. 248-327.
Schwartz, Robert J., to Schlumberger Technology Corporation. Well logging systems. 3,434,105, 3-18-69, Cl. 340-18.
Schwartz, Robert J., to Schlumberger Technology Corporation, mesne. Circuit for detecting time of occurrence of signals having an amplitude which exceeds a predetermined level. 3,437,834, 4-8-69, Cl. 307-235.
Schwartz, Robert T.: *See*—
Hough, Ralph L.; and Schwartz, Robert T.,3,433,725.
Schwartz, Robert; and Cooperman, Harry N., to Dental Orthopedics, Inc. Orthopedic relator assembly. 3,465,443, 9-9-69, Cl. 32-32.
Schwartz, Ronald C. Multibase counter and calculator. 3,462,854, 8-26-69, Cl. 35-32.
Schwartz, Samuel H., to Dole Valve Company, The. Multirange thermal device. 3,438,256, 4-15-69, Cl. 73-368.3
Schwartz, Samuel H., to Dole Valve Company, The. Fluid flow control valve. 3,442,483, 5-6-69, Cl. 251-11.
Schwartz, Samuel M.: *See*—
Weber, William H. A., Jr., 3,470,278.
Schwartz, Samuel M., to Farah Manufacturing Company, Inc. Diaper construction. 3,459,186, 8-5-69, Cl. 128-284.
Schwartz, Seymour I.; Wingrove, Robert C.; and Anderson, James A., to Medtronic, Inc. Implantable electrode for nerve stimulation. 3,421,511, 1-14-69, Cl. 128-418.
Schwartz, Sidney J., to National Cash Register Company, The. Transverse inhibit memory system having a flux integration form of signal detection. 3,460,107, 8-5-69, Cl. 340-174.
Schwartz, Sidney J., to National Cash Register Company, The. Back - E.M.F. sensing memory system. 3,462,750, 8-19-69, Cl. 340-174.
Schwartz, Theodoore F. Urinal. 3,432,865, 3-18-69, Cl. 4-110.
Schwartz, Theodore F. Urinals for use by humans when in supine position. 3,432,863, 3-18-69, Cl. 4-110.
Schwartz, Theodore F. Urinal. 3,432,864, 3-18-69, Cl. 4-110.
Schwartz, Theodore F. Disposable urinal. 3,432,866, 3-18-69, Cl. 4-110.
Schwartz, Theodore F. Machine for cutting and forming opposed axial conductors of electronic components. 3,439,520, 4-22-69, Cl. 72-338.
Schwartz, Theodore F. Aerial camera. 3,439,599, 4-22-69, Cl. 95-12.5
Schwartz, Theodore F., to Kimberly-Clark Corporation. Means and method for inserting absorbent cartridges into the vagina. 3,456,640, 7-22-69, Cl. 128-263.
Schwartz, Walter M., Jr.; Turner, Charles R.; and Eaton, John L., Jr., to Proctor-Silex Incorporated. Bread toaster. 3,483,814, 12-16-69, Cl. 99-391.
Schwartz, William Ford: *See*—
Soulen, John Richard; and Schwartz, William Ford,3,428,695.
Soulen, John Richard; and Schwartz, William Ford,3,472,904.
Schwartzbach, Morton. Hot stamping press constructions. 3,473,365, 10-21-69, Cl. 72-451.
Schwartzberg, Henry G.: *See*—
Mitchell, William A.; and Schwartzberg, Henry G.,3,467,526.
Schwartzberg, Henry, to General Foods Corporation. Fritted slab freeze drying. 3,468,672, 9-23-69, Cl. 99-71.
Schwartzenberg, John W.: *See*—
Bay, Theodosios; Chen, Tai Seng; and Schwartzenberg, John W.,3,473,008.
Blum, Bernard; and Schwartzenberg, John W.,3,450,867.
Blum, Bernard; Gowen, James R.; and Schwartzenberg, John W.,3,441,725.
Schwartzenberg, John W.; and Blum, Bernard, to Leeds & Northrup Company. Process measurement system for basic oxygen refining of steel. 3,475,599, 10-28-69, Cl. 235-151.35
Schwartzman, Everett H. Cryogenic engine system and method. 3,451,342, 6-24-69, Cl. 103-43.
Schwartzman, Everett H. Fluid bearing system. 3,476,451, 11-4-69, Cl. 308-122.

Schwartzman, Gilbert, to Dab-O-Matic Corp. Anti suck-back device for tubes. 3,438,554, 4-15-69, Cl. 222-496.
Schwartzman, Gilbert. Stamping device. 3,444,808, 5-20-69, Cl. 101-125.
Schwartzman, Gilbert. Blowback eliminator for collapsible tube. 3,456,650, 7-22-69, Cl. 128-249.
Schwartzman, Gilbert. Mixing tube. 3,467,282, 9-16-69, Cl. 222-94.
Schwartzman, Gilbert. Applicator construction. 3,471,245, 10-7-69, Cl. 401-207.
Schwartzman, Gilbert. Disposable self-container applicator. 3,481,676, 12-2-69, Cl. 401-134.
Schwartzman, Gilbert. Combination applicator and squeeze container. 3,481,678, 12-2-69, Cl. 401-206.
Schwartzman, Gilbert. Container applicator. 3,482,920, 12-9-69, Cl. 401-132.
Schwartzman, Leonard: *See—*
Waly, Adnan; Just, Richard; Schwartzman, Leonard; and Alster, David I.,3,426,197.
Schwartzwalder, Karl: *See—*
Kesten, Patrick N.; and Schwartzwalder, Karl,3,451,841.
Schwartzwalder, Karl; and Berg, Morris, to General Motors Corporation. Thermocouple with reducing atmosphere producing sheath. 3,451,860, 6-24-69, Cl. 136-230.
Schwarz, Arthur M., to Inland Steel Company. Process for removing arsenic from iron ore. 3,427,149, 2-11-69, Cl. 75-6.
Schwarz Bioresearch, Inc.: *See—*
Laufer, Louis; and Gutcho, Sidney, 3,459,637.
Schwarz, Eckhard C. A., to Du Pont de Nemours, E. I., and Company. Process for rendering a synthetic polymeric textile material antistatic and the resulting material. 3,455,735, 7-15-69, Cl. 117-138.8
Schwarz, Eckhard Christian August, to Du Pont de Nemours, E. I., and Company. Polyphenyleneimines and process for the preparation thereof. 3,438,910, 4-15-69, Cl. 260-2.
Schwarz, Eckhard Christian August, to Du Pont de Nemours, E. I., and Company. Linear condensation polymers of m- phenylenediamine and aldehydes. 3,446,773, 5-27-69, Cl. 260-47.
Schwarz, Eckhard Christian August, to Du Pont de Nemours, E. I., and Company. Process of bonding rubber to polyester tire cord and composition. 3,464,878, 9-2-69, Cl. 156-330.
Schwarz, Hans Helmut: *See—*
Schnell, Hermann; and Schwarz, Hans Helmut,3,427,370.
Schwarz, Hans-Helmut; and Morgenstern, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of esters and nitriles of unsaturated aliphatic carboxylic acids. 3,485,866, 12-23-69, Cl. 260-465.9
Schwarz, Hans Helmut; Morgenstern, Karl; Schneider, Joachim; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for extraction of oximes from mineral acid solutions. 3,423,460, 1-21-69, Cl. 260-566.
Schwarz, Herbert, to Petchen Corporation. Method of improving wearing qualities of organic fibers and fabrics. 3,431,142, 3-4-69, Cl. 117-139.5
Schwarz, Horst; and Plorin, Siegfried, to Siemens Aktiengesellschaft. Semiconductor with encapsulating housing. 3,427,510, 2-11-69, Cl. 317-234.
Schwarz, John B.: *See—*
Chow, Woo F.; and Schwarz, John B.,3,466,624.
Schwarz, John Samuel Paul: *See—*
Kinney, Roland Walter; Neidleman, Saul Lewis; Weisenborn, Frank Lee; and Schwarz, John Samuel Paul,3,462,487.
Schwarz, John Samuel Paul; Weisenborn, Frank L.; and Neidleman, Saul Lewis, to Squibb, E. R., & Sons, Inc. Secotetracycline derivatives and their method of preparation. 3,438,999, 4-15-69, Cl. 260-343.3
Schwarz, Josef: *See—*
Kuhnle, Ernest; and Schwarz, Josef,3,421,595.
Schwarz, Julius; Dokes, George E.; Von Bradsky, Otokar; and Goodman, Sidney J., to Hendon Construction Company. Camber truss upper frame supporting means for sidewalls of an above ground swimming pool. 3,479,780, 11-25-69, Cl. 52--169
Schwarz, Ludwig, to Gebr. Bohler & Co. Aktiengesellschaft. Process of producing ledeburitic tool steel. 3,482,259, 12-2-69, Cl. 29-528.
Schwarz, Milton H.: *See—*
Gerstein, Terry; Perlberg, William; and Schwarz, Milton H.,3,485,915.
Holtzman, Harris; and Schwarz, Milton H.,3,446,568.
Schwarz, Ottmar; and Merten, Heinrich, to Bergwerksverband GmbH. Method of operating a steam generator and improved burner system therefor. 3,447,494, 6-3-69, Cl. 110-7.
Schwarz, Robert J., to Hercules Incorporated. Method for improving the performance of radio frequency plasma jets and the production of acetylene. 3,483,107, 12-9-69, Cl. 204-162.
Schwarz, Rudolf, to Gebr. Staubli & Co. Double lift dobbies. 3,441,060, 4-29-69, Cl. 139-68.
Schwarz, Rudolf; and Meyer-Simon, Eugen, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the separation of aluminum chloride and titanium tetrachloride from gaseous reaction gases containing chlorosilanes. 3,475,139, 10-28-69, Cl. 23-366.
Schwarz, Rudolf: *See—*
Pfeifer, Karl; Bretschneider, Gunther; Schwarz, Rudolf; and Laun, Karl,3,472,459.
Schwarz, Werner, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Method and apparatus for increasing the angular definition of the direction indication in sonar systems. 3,430,192, 2-25-69, Cl. 340-3.
Schwarz, William W.; and Shepard, Jack W., to Thiokol Chemical Corporation. Safe-arm device for solid propellant rocket motors. 3,423,931, 1-28-69, Cl. 60-39.47
Schwarzenbach, Alfred, to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for covering a peak load or a rapidly changing load in a steam turbine plant. 3,457,725, 7-29-69, Cl. 60-73.
Schwarzenbach, Kurt: *See—*
Dazzi, Joachim; Schwarzenbach, Kurt; and Keller, Ernst,3,424,683.
Schwarzenbek, Eugene F. Treatment for cracking catalyst. 3,487,026, 12-30-69, Cl. 252-410.
Schwarzer, Carl G., to Shell Oil Company. Flame retardant polyglycidyl ethers of tetrakis (dihalohydroxyphenyl) ethane and propane. 3,452,116, 6-24-69, Cl. 260-830.
Schwarzer, Carl G., to Shell Oil Company. Process for preparing epoxyalkyl derivatives. 3,454,570, 7-8-69, Cl. 260-248.
Schwarzer, Franz, to Kalle Aktiengesellschaft. Process for the manufacture of water-soluble macromolecular compounds containing hydroxyl groups. 3,461,115, 8-12-69, Cl. 260-232.
Schwarzer, Gerhard: *See—*
Ruthrof, Klaus; Schwarzer, Gerhard; Agell, Jose Domenech; Mir, Enrique Veiga; and Artigas, Jesus Colell,3,481,475.
Schwarzkopf, August, to Windmoller & Holscher. Sorting machine. 3,439,848, 4-22-69, Cl. 225-96.
Schwarzkopf, August, to Windmoller & Holscher. Apparatus for manufacturing griphole carrying bags. 3,440,124, 4-22-69, Cl. 156-423.
Schwarzkopf, August, to Windmoller & Holscher. Tapered bags or sleeves made from plastic material sheeting and joined by tearable perforation lines. 3,448,915, 6-10-69, Cl. 229-56.
Schwarzkopf Development Corporation: *See—*
Pohler, Alfred; and Strohmeier, Gerolf, 3,420,986.
Rudy, Erwin, 3,479,155.
Schwarzkopf. Peter; and Nakae, Takuro S., to North American Rockwell Corporation. Composite material. 3,454,372, 7-8-69, Cl. 29-182.1
Schwarzmann, Matthias: *See—*
Hamprecht, Guenther; Mohr, Rudolf; Fromm, Dieter; Schwarzmann, Matthias; and Vogel, Ludwig,3,458,511.
Schwarzschild, Jack, to United Aircraft Corporation. Gyromotor bearing. 3,425,759, 2-4-69, Cl. 308-188.
Schwarzwalder, Werner: *See—*
Reil, Wilhelm; and Schwarzwalder, Werner,3,438,176.
Schwebel, Adolf, to Mabeg Maschinenbau G.m.b.H., and Nachf. Hense & Pleines G.m.b.H., & Co. Device for controlling the suction air supply and the pressure air supply for a sheet processing machine. 3,426,963, 2-11-69, Cl. 230-22.
Schwebel, Adolf, to Mabeg Maschinenbau G.m.b.H., and Nachf. Hense & Pleines G.m.b.H., & Co. Device for controlling the sheet stack of a sheet processing machine. 3,446,496, 5-27-69, Cl. 271-31.
Schwebel, Adolf, to Mabeg Maschinenbau GmbH, and Nachf. Hense & Pleines G.m.b.H. Device for continually withdrawing single sheets from a stack of sheets. 3,477,324, 11-11-69, Cl. 83-79.
Schwebel, Charles Dana. Electric current generator. 3,424,931, 1-28-69, Cl. 310-10.
Schwebel, Clarence: *See—*
Hess, Edwin Austin; and Schwebel, Clarence,3,448,045.
Schwedler, Donald J.; and Schiffer, Clifford E.; d.b.a. Calusa Associates. Preventing silica bake-on deposits from silicate detergent composition. 3,436,350, 4-1-69, Cl. 252-135.
Schwedler, Gottfried: *See—*
Gross, Hans-Werner; Schwedler, Gottfried; and Muller, Eckart,3,437,575.
Schweer, John H. Device for segregating pool balls. 3,439,915, 4-22-69, Cl. 273-11.
Schweer, Wilhelm; Krafft, Erich; and Lorenz, Horst, to Kieserling, Th., & Albrecht. Machine for shaving workpieces of circular cross section. 3,486,403, 12-30-69, Cl. 82-20.
Schweich, Henry L., to Royal Bond, Inc. Support stand. 3,462,592, 8-19-69, Cl. 240-2.
Schweig, Jacques: *See—*
Schweig, Jacques; and Charwat, Horst, 3,467,571.
Schweig, Jacques; and Charwat, Horst, to Schweig, Jacques, mesne. Hat felt and the method of making it. 3,467,571, 9-16-69, Cl. 161-170.
Schweiger, Manfred U.: *See—*
Sutton, Walter T., Jr.; Broyles, James D.; and Schweiger, Manfred U.,3,465,534.
Schweiger, Manfred U., to Texas Instruments, Incorporated. Apparatus for eliminating condensation from the outer walls of refrigeration enclosures. 3,443,395, 5-13-69, Cl. 62-140.

Schweiger, Richard G., to Kelco Company. Sulfation of xanthomonas hydrophilic colloid. 3,446,796, 5-27-69, Cl. 260-234.
Schweighofer, Johann: *See—*
Muller, Walter; Schweighofer, Johann; and Weinrotter, Ferdinand,3,449,385.
Schweihs, Jess J., to International Business Machines Corporation. Selectively operable intermittent motion apparatus. 3,443,442, 5-13-69, Cl. 74-1.5
Schweiker, George C.: *See—*
Johnson, Lee; Arthur, Ralph P.; and Schweiker, George C.,3,458,601.
Schweiker, Malcolm A.; and Watson, Wayne C., to American Olean Tile Company, Inc. Apparatus for producing ceramic tile assemblies. 3,463,695, 8-26-69, Cl. 156-556.
Schweikert, Armin. Process and apparatus for the packaging of plants. 3,445,982, 5-27-69, Cl. 53-29.
Schweinfurth, Hans. Vibratory work machine with shakeproof support. 3,447,671, 6-3-69, Cl. 198-220.
Schweitzer, Carl Earle; and Setterquist, Robert Alton, to Du Pont de Nemours, E. I., and Company. Process for preparing a modified polyoxymethylene. 3,437,640, 4-8-69, Cl. 260-67.
Schweitzer, Carl Earle; and Setterquist, Robert Alton, to Du Pont de Nemours, E. I., and Company. Modified polyoxymethylene. 3,477,994, 11-11-69, Cl. 260-67.
Schweitzer, Edmund O., Jr. Means for measuring current flow in a conductor by reduction in magnetization of a low coercivity magnetic member. 3,426,275, 2-4-69, Cl. 324-127.
Schweitzer, Edmund O., Jr. Electric current measuring means using demagnetizable yoke. 3,426,276, 2-4-69, Cl. 324-127.
Schweitzer, Edmund O., Jr. System for transmitting to a remote point a signal that varies as a function of the current flow in a high voltage conductor. 3,428,896, 2-18-69, Cl. 324-126.
Schweitzer, Edmund O., Jr. Wave transmitter having a magnetic core for detachably clamping to a high voltage conductor. 3,453,544, 7-1-69, Cl. 324-127.
Schweitzer, Edmund O., Jr. Detachable clamp for mounting an electrical device on a conductor. 3,485,468, 12-23-69, Cl. 248-74.
Schweitzer Equipment Company: *See—*
Halls, James Henry Collins, 3,421,293.
Schweitzer, Erich J., to Welch Scientific Company, The. Reflection head for measuring diffuse reflection density. 3,473,878, 10-21-69, Cl. 356-210.
Schweitzer, Francis E., to Du Pont de Nemours, E. I., and Company. Low viscosity solutions of polymeric precursors of imide containing polymers and aromatic diacid diesters. 3,459,706, 8-5-69, Cl. 260-47.
Schweitzer, George K.: *See—*
Scribner, William G.; and Schweitzer, George K.,3,451,807.
Schweitzer, Ulrich G. E.: *See—*
Bleibtreu, Alexander; and Schweitzer, Ulrich G. E.,3,445,611.
Schweitzer, William L. Lift for aiding persons in and out of bathtubs. 3,465,371, 9-9-69, Cl. 4-185.
Schweitzer, William P.; and Flaxman, Nathan, to Kimberly-Clark Corporation. Method of making a reconstituted tobacco sheet having improved filling power. 3,430,634, 3-4-69, Cl. 131-140.
Schweizer, Antoinette M., 50% to Von Kemenczky, Miklos. Container with magnetic safety frame. 3,456,359, 7-15-69, Cl. 150-29.
Schweizer, August: *See—*
Benz, Jakob; and Schweizer, August,3,463,771.
Benz, Jakob; and Schweizer, August,3,466,286.
Schweizer, Ernst: *See—*
Hueni, Albrecht; Schweizer, Ernst; and Schroeder, Dorothy,3,445,467.
Schmidt, Paul; Schweizer, Ernst; Eichenberger, Kurt; and Wilhelm, Max,3,422,098.
Schweizer, Gottfried: *See—*
Smolka, Thomas G.; and Schweizer, Gottfried,3,469,857.
Schweizer, Horst, to Olympia Werke A.G. Pawl release mechanism. 3,441,119, 4-29-69, Cl. 197-94.
Schweizer, Horst, to Olympia Werke A.G. Escapement mechanism for a carriage. 3,455,429, 7-15-69, Cl. 197-84.
Schweizer, Horst, to Olympia Werke A.G. Back spacing mechanism. 3,455,430, 7-15-69, Cl. 197-91.
Schweizer, Max Norman, to Nasco Design Corporation. Credit card verifier using transformers. 3,453,598, 7-1-69, Cl. 340-149.
Schweizer, Norman. Pressure delay responsive device. 3,487,185, 12-30-69, Cl. 200-82.
Schweizer, Otto, to Werner & Pfleiderer. Hydraulic pressure control system. 3,424,057, 1-28-69, Cl. 91-29.
Schweizer, Peter: *See—*
Hartmann, Adolf; and Schweizer, Peter,3,459,711.
Schweizer, Walter, to Kienzle Uhrenfabriken GmbH. Process for statically balancing rotary discs. 3,483,738, 12-16-69, Cl. 73-66.
Schweizerhof, Sigfrid, to Telefunken Patentverwertungsgesellschaft m.b.H. Magnetic core transformer with an adjustable coupling factor. 3,439,257, 4-15-69, Cl. 323-56.
Schweizerhof, Sigfrid; and Schafer, Siegfried, to Telefunken Patentverwertungsgesellschaft m.b.H. Fabrication of magnetic devices. 3,482,225, 12-2-69, Cl. 340-174.
Schweizerhof, Sigfrid; and Schafer, Siegfried, to Telefunken Patentverwertungsgesellschaft m.b.H. Data storage. 3,483,538, 12-9-69, Cl. 340-174.
Schweizerische Industrie-Gesellschaft: *See—*
Deutschlander, Gert, 3,424,293.
Engeler, Paul, 3,427,784.
Luginbuhl, Pierre; and Moser, Albert, 3,451,188.
Luginbuhl, Pierre, 3,451,563.
Schweizerische Unfall-Versecherungranstalt: *See—*
Pluznik, Wolf; and Frescura, Gino, 3,473,869.
Schwemer, Warren C.: *See—*
Glenn, John D.; Robbins, Owen G.; Schwemer, Warren C.; and Silverman, Joseph R.,3,431,753.
Schwemin, Arnold J., to United States of America, Atomic Energy Commission. Laser beam operated X-Y table. 3,457,646, 7-29-69, Cl. 33-1.
Schwemin, Arnold J. Closed-cycle gas engine. 3,478,511, 11-18-69, Cl. 60-24.
Schwemmer, Martin; Kunz, Werner; and Bors, Hans, to Zellweger AG Apparate- und Maschinenfabriken, Uster. Method for controlling the drying steps on continuous sheet of material. 3,443,322, 5-13-69, Cl. 34-9.
Schwendenmann, Frederick S. Hand manipulated control for operating motor vehicles. 3,442,149, 5-6-69, Cl. 74-481.
Schwender, George: *See—*
Ravenhall, Dysart A.; and Schwender, George,3,458,706.
Schwender, Leonard Dillon: *See—*
Lerch, Clark Mnroe; and Schwender, Leonard Dillon,3,452,426.
Schwendtner, Alfred H., to Lykes Enterprises, Inc., mesne. Barge handling equipment. 3,437,066, 4-8-69, Cl. 114-43.5
Schwendtner, Alfred H., to Conch International Methane Limited, mesne. Membrane tank structures. 3,477,606, 11-11-69, Cl. 220-9.
Schwenk, Arthur: *See—*
Baron, Herschel; and Schwenk, Arthur,3,463,482.
Schwenk, Ulrich: *See—*
Fischer, Manfred; Kotzschmar, Arnold; and Schwenk, Ulrich,3,454,617.
Schwenke, Wolfgang: *See—*
Dachs, Karl; Wilhelm, Hans; Wick, Kurt; Schwenke, Wolfgang; and Naeder, Max,3,440,668.
Schwenker, Eric H., to Whirlpool Corporation. Snap-on vacuum break device for refrigerators. 3,434,239, 3-25-69, Cl. 49-478.
Schwenker, John E., to Bell Telephone Laboratories, Incorporated. Magnetic core branching shift register arrangement. 3,471,837, 10-7-69, Cl. 340-174.
Schwenkler, Joseph J.: *See—*
Christian, Robert L.; Trout, Paul E.; and Schwenkler, Joseph J.,3,485,575.
Schwenkler, Joseph J.; and Merchant, Morris V., to Container Corporation of America. Process for treating paperboard. 3,485,656, 12-23-69, Cl. 117-60.
Schwenn, Carl W., to International Business Machines Corporation. Bonding method. 3,474,521, 10-28-69, Cl. 29-471.3
Schwennesen, Donald O., to Allegheny Ludlum Steel Corporation. Laminations without scrap. 3,456,535, 7-22-69, Cl. 83-23.
Schwennicke, Franz. Variable volume suitcase. 3,447,648, 6-3-69, Cl. 190-44.
Schwenzer, Heinz: *See—*
Moroney, Ronald; Johansen, Paul; and Schwenzer, Heinz,3,474,595.
Schwerdhofer, Hans Joachim, to Fichtel & Sachs A.G. Reversible one-way clutch with pilot brake. 3,432,015, 3-11-69, Cl. 192-43.1
Schwerdhofer, Hans Joachim, to General Dynamics Corporation. Multiple speed hub for a bicycle and like vehicle. 3,438,283, 4-15-69, Cl. 74-750.
Schwerdhofer, Hans Joachim, to Fichtel & Sachs A.G. Centrifugal coupling arrangement. 3,461,746, 8-19-69, Cl. 74-752.
Schwerdt, Hans, to Feldmuhle Aktiengesellschaft. Spray receiving device for a papermaking machine. 3,470,064, 9-30-69, Cl. 162-314.
Schwerdtel, Wulf: *See—*
Kronig, Walter; Mayrhofer, Wilhelm; Scharfe, Gerhard; Schwerdtel, Wulf; and Halcour, Kurt,3,485,887.
Schweriner, Harold, to Simco Company Inc., The. Method for making a dustproof and shockless static bar. 3,443,155, 5-6-69, Cl. 317-2.
Schwertz, Frederick A., to Xerox Corporation. Test printing with flexible electrode on endless belt. 3,430,254, 2-25-69, Cl. 346-74.
Schwiebert, Phillip D.; and Griffith, Paul H., to Mac Lean-Fogg Lock Nut Co. Winch with protective ratchet. 3,454,260, 7-8-69, Cl. 254-186.
Schwien Engineering, Inc.: *See—*
Music, William A., 3,479,879.
Schwieter, Ulrich: *See—*
Ruegg, Rudolf; and Schwieter, Ulrich,3,466,335.
Schlegel, Wolfgang; Schwieter, Ulrich; and Tamm, Rudolf,3,458,637.
Schwing, Allan H. Panel board wiring channel with rigidly fixed supports for terminal strips. 3,441,806, 4-29-69, Cl. 317-122.

Schwing, Richard C., to General Motors Corporation. Electrostatic cleaner application. 3,475,917, 11-4-69, Cl. 62-85.
Schwinghammer, Gunter, to Enzinger-Union-Werke Aktiengesellschaft. Profiled rod for supporting stacked filter discs. 3,481,480, 12-2-69, Cl. 210-488.
Schwinn Bicycle Company: *See—*
Brilando, Frank P.; Jameson, Stanley R.; and Blaho, Rudolph G., 3,426,614.
Brilando, Frank P., 3,432,204.
Brilando, Frank P., 3,477,303.
Brilando, Frank P.; and Blaho, Rudolph G., 3,481,628.
Schwitzgebel, Ralph K.; and Hurd, William Sprech. Behavioral supervision system with wrist carried transceiver. 3,478,344, 11-11-69, Cl. 340-312.
Schwoyer, William L.: *See—*
Griffith, George L.; and Schwoyer, William L.,3,457,128.
Kern, Forest L.; Schwoyer, William L.; and Dowling, Thomas P.,3,431,851.
Kern, Forrest L.; Schwoyer, William L.; and Dowling, Thomas P.,3,431,849.
Schwoyer, William L., to Commercial Solvents Corporation. Reducing sensitivity of primary explosives to initiation by electrostatic discharges. 3,461,007, 8-12-69, Cl. 149-27.
Schwyn, Raymond E.: *See—*
Riddel, John W.; and Schwyn, Raymond E.,3,469,224.
Sci-Tech Corporation: *See—*
Pohl, Herbert Ackland, 3,469,441.
Sciacca, Thomas P.; and Eubanks, Alfred G., to United States of America, National Aeronautics and Space Administration. Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope. 3,446,960, 5-27-69, Cl. 250-49.5
Sciaky, David, to Welding Research, Inc. Electron beam welding method with feed back control. 3,435,187, 3-25-69, Cl. 219-121.
Sciaky, David, to Welding Research, Inc. Method for electron beam welding of overlapped sheets. 3,437,785, 4-8-69, Cl. 219-121.
Sciaky, David, to Welding Research, Inc. Tig spot welding by means of a pulsating unidirectional current. 3,449,543, 6-10-69, Cl. 219-131.
Sciaky, David, to Welding Research, Inc. Electron gun beam straightener. 3,475,584, 10-28-69, Cl. 219-121.
Sciaky, David, to Welding Research, Inc. Electric welding machine with rotating arc. 3,484,578, 12-16-69, Cl. 219-97.
Sciaky, Roberto: *See—*
Consonni, Alberto; Pallini, Ugo; and Sciaky, Roberto,3,480,623.
Consonni, Alberto; Patelli, Bianca; and Sciaky, Roberto,3,462,423.
Sciaky, Roberto; and Mancini, Franco, to Societa Farmaceutici Italia. 17α-Ethynyl-Δ1,3,5 (10)-estratriene and process for the preparation thereof. 3,446,823, 5-27-69, Cl. 260-397.5
Sciamonte, Philip A.; and Rezner, Peter, to American Flange & Manufacturing Co., Inc. Method and apparatus for applying closure to containers. 3,468,013, 9-23-69, Cl. 29-451.
Sciaux, Jean, to Alfa-Laval AB. Centrifugal apparatus for heat exchange. 3,430,690, 3-4-69, Cl. 165-88.
Scidmore, Wright H.; and Shean, James W., to United States of America, Army. Periscopic night sight having a filter disc for regulating the intensity of the input to a multistage image intensifier. 3,443,105, 5-6-69, Cl. 250-213.
Scidmore, Wright H.; and Weitzel, Ezra, to United States of America, Army. Catadioptric system for night periscopic sight. 3,454,322, 7-8-69, Cl. 350-55.
Scidmore, Wright H.; and Wolfe, Robert J.; to United States of America, Army. Wide angle eyepiece with large eye relief. 3,464,764, 9-2-69, Cl. 350-202.
Science for Fun, Inc.: *See—*
Zitter, Robert, 3,445,157.
Science Research Council: *See—*
Russell, Francis Michael, 3,459,988.
Thomas, David Brynmor, 3,444,495.
Science Union et Cie, Societe Francaise de Recherche Medicale: *See—*
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, 3,429,922.
Regnie, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel, 3,457,263.
Regnier, Gilbert; Canevari, Roger; Le Douarec, Jean-Claude; and Laubie, Michel, 3,435,036.
Scienco, Inc.: *See—*
Vanderjagt, John A., 3,467,266.
Scientific Associates, Inc.: *See—*
Butcher, William S., 3,457,129.
Scientific Data Systems: *See—*
Niquette, Reaman Paul, 3,440,630.
Scientific Enterprises, Inc.: *See—*
Bolasny, Robert E., 3,422,265.
Scientific Industries, Inc.: *See—*
Natelson, Samuel, 3,453,082.
Scientific Music Industries, Inc.: *See—*
Tepper, Richard I., 3,460,424.
Scientific Separalors, Inc.: *See—*
Gebauer, Albert W., 3,441,131.
Scientific-Atlanta, Inc.: *See—*
Clayton, Lorimer, Jr., 3,471,751.
Goodman, Robert M., Jr., 3,426,309.
Goodman, Robert M., Jr., 3,483,307.
Inman, Richard B., 3,452,512.
Miller, Douglas D.; Hogan, Thomas Howard; and Inman, Richard B., 3,438,483.
Simon, Joseph William; and Alverson, William Keith, 3,478,283.
Scime, Marie J.; and Lauber, William W. Lift mechanism for structural components. 3,443,850, 5-13-69, Cl. 312-223.
Scinta, Anthony C., to Trico Products Corporation. Window wiper. 3,452,384, 7-1-69, Cl. 15-250.1
Scio Pottery Company, The: *See—*
O'Leary, John P.; Woolaway, Thomas P.; Reese, Richard S.; and Feuchtwanger, Joseph, 3,451,536.
Scionics Corporation: *See—*
Farrant, David A., 3,420,129.
Hebblethwaite, Thomas V., 3,475,253.
Scipione, Alfred S., to General Precision Systems, Inc. Synchronizing generator for a television system with adjustable interlace. 3,422,223, 1-14-69, Cl. 178-69.5
Scipione, Alfred S., to Singer-General Precision, Inc. Method of generating a composite blanking signal from a composite sync signal. 3,479,459, 11-18-69, Cl. 178-69.5
Sckerl, Walter, to Ringsdorff-Werke GmbH. Brush holder with gripping lever for electrical machines. 3,466,481, 9-9-69, Cl. 310-239.
SCM Corporation: *See—*
Abend, Chester J.; Adams, Gerald M.; and Younge, Paul Dennis, 3,486,322.
Anderson, Carl P., 3,444,976.
Barkdoll, Joseph P., 3,428,160.
Bonsack, James P., 3,441,373.
Bordenca, Carl; Derfer, John Mentzer; and Hamby, Clayton B., 3,420,910.
Bordenca, Carl, 3,423,220.
Borovicka, David A.; Reich, William E.; and Pratt, Ivor, 3,475,366.
Bradbury, Wilburn F., 3,429,414.
Canny, Floyd H.; and Doll, Peter A., 3,472,353.
Cappotto, Samuel D., 3,427,893.
Carlson, Robert O., 3,476,210.
Derfer, John M., 3,466,267.
Dros, Barbara; and Engel, Eric, 3,476,572.
Frischmuth, Robert W., 3,421,277.
Gibbons, Ambrose J., Jr.; and De Marco, Richard E., 3,431,288.
Gilchrist, Allan E., 3,476,667.
Guzak, John, Jr., 3,466,647.
Kennedy, Melvin H., 3,479,912.
Kirkpatrick, Wylie C., 3,434,588.
Leffingwell, John C., 3,420,827.
Mabrey, David W.; Pratt, Ivor; Oser, William E.; and Hahn, Kenneth G., 3,453,345.
Martin, George D., 3,438,793.
Meller, Edward E., 3,484,306.
Mueller, Edward E., 3,454,433.
Mueller, Edward E., 3,459,601.
Mueller, Edward E., 3,459,602.
Nusser, Lawrence; and Good, Adrian J., 3,463,754.
Phillips, Gordon; and Casshie, Tony R., 3,427,266.
Phillips, Gordon; and Bowell, Stephen T., 3,446,764.
Phillips, William G., 3,478,932.
Pierce, Percy E.; and Holsworth, Richard M., 3,423,351.
Shattuck, Richard E., 3,482,671.
Stefanik, Donald J., 3,467,946.
Stone, James N.; and Eick, George H., 3,423,219.
Story, Laurence A., 3,473,947.
Turpin, Edward Thomas, 3,478,126.
Wagner, Edward W., 3,438,904.
Warren, Creighton S.; and Misthos, George E,, 3,475,670.
Watson, James W., 3,450,554.
Zerfahs, Arthur S., 3,482,912.
Scobie, David C. H.; and Scott, James Anderson, to Imperial Chemical Industries Limited. Apparatus for suppressing spurious signals in process control equipment. 3,463,979, 8-26-69, Cl. 318-18.
Scocca, George, Jr.: *See—*
O'Donnell, Frank, (also known as O'Donnell, Francis); and Scocca, George, Jr.,3,486,944.
Scocca, Geroge, Jr.: *See—*
O'Donnell, Frank, (also known as 'Donnell, Francis); and Scocca, Geroge, Jr.,3,486,945.
Scoffield, Eric George; and Love, David Christopher, to Manlove, Alliott, & Co., Limited. Air-detecting device for steam sterilizers. 3,479,131, 11-18-69, Cl. 21-103.
Scofield, Donald H., to Insul-8 Corporation, mesne. Method of manufacturing electrical conductor bars for trolley electrification systems. 3,452,433, 7-1-69, Cl. 29-624.
Scofield, George E. Method of acid treating wells. 3,463,232, 8-26-69, Cl. 166-307.

Scofield, Gerald A., to Rohm & Haas Company. Embossing apparatus. 3,471,354, 10-7-69, Cl. 156-590.
Scofield, John D.: *See—*
Basso, Michael J., 3,432,634.
Scofield, Paul E.: *See—*
Helda, Robert W.; and Scofield, Paul E.,3,427,550.
Scofield, William; and Olson, Walter J., to Kidde, Walter, & Company, mesne. Fire extinguishing system and control apparatus. 3,448,808, 6-10-69, Cl. 169-2.
Scoggin, Baxter I., Jr., to Cook Chemical Company. Fluid dispenser with adjustable stroke pump piston. 3,458,090, 7-29-69, Cl. 222-309.
Scoggin, Jack S., to Phillips Petroleum Company. Reaction process. 3,437,646, 4-8-69, Cl. 260-88.2
Scoggin, Jack S., to Phillips Petroleum Company. Crystallization of a liquid mixture with subcooled crystals of one component of the mixture. 3,448,588, 6-10-69, Cl. 62-58.
Scoggin, Jack S., to Phillips Petroleum Company. Polymerization of mono-1-olefins. 3,454,545, 7-8-69, Cl. 260-93.7
Scoggin, Jack S., to Phillips Petroleum Company. Process for preparing block copolymers of olefins. 3,454,675, 7-8-69, Cl. 260-878.
Scoggin, Jack S., to Phillips Petroleum Company. Process for recovering olefin polymers. 3,458,494, 7-29-69, Cl. 260-94.9
Scoggin, Jack S., to Phillips Petroleum Company. Continuous block copolymer production. 3,474,158, 10-21-69, Cl. 260-878.
Scoggin, John K., to Du Pont de Nemours, E. I., and Company. Esters of benzimidazolecarbamic acid as mite ovicides. 3,427,388, 2-11-69, Cl. 424-273.
Scoggins, Cecil W. Slush ice carbonation machine. 3,477,244, 11-11-69, Cl. 62-306.
Scoles, David A.: *See—*
Fohrmann, Ernest F.; Scoles, David A.; Cochran, Benjamin T.; and Dick, John O.,3,440,961.
Sconce, James S.: *See—*
Minklei, Alfred O.; Dexter, Theodore H.; Sconce, James S.; and Thorstensen, Thomas C.,3,421,832.
Sconce, James S.; Hodan, James J.; and Schall, William L., to Hooker Chemical Corporation. Triaryl phosphates. 3,428,714, 2-18-69, Cl. 260-966.
Sconzo, Thomas G. Fence post cap. 3,428,300, 2-18-69, Cl. 256-59.
Scope Incorporated: *See—*
Williams, Richard E.; and Gerig, John S., 3,473,127.
Scopp, Howard A.; and Sincock, Thomas F., to Monsanto Company. Container. 3,424,342, 1-28-69, Cl. 220-60.
Scordato, Emil A., to Cutting Room Appliances Corporation. Cloth roll disc brake construction for cloth laying machine carriages. 3,456,895, 7-22-69, Cl. 242-75.46
Scordato, Emil A.: *See—*
Critides, Charles G.; Scordato, Emil A.; and Hartnett, John J.,3,483,781.
Scott & Fetzer Company, The: *See—*
Bowman, Joe, 3,467,795.
Dolan, Francis D.; and Burgoon, Jack L., 3,434,178.
McCandless, William, 3,461,474.
McCandless, William, 3,484,889.
Rogge, John C.; and Walther, George W., 3,422,579.
Walther, George W., 3,452,380.
Woolley, Lee A., 3,432,925.
Woolley, Lee A., 3,436,975.
Woolley, Lee A., 3,452,228.
Scott & Williams, Inc.: *See—*
Grothey, Ivan David, 3,420,075.
Scott & Williams, Incorporated: *See—*
Currier, John A., 3,475,925.
Millar, John J., 3,457,734.
Millar, John J., 3,457,735.
Millar, John J., 3,457,737.
Scott, Albert Rockwood, to Rockwood Equipment Company. Vehicle towing dolly and castor assemblies. 3,458,068, 7-29-69, Cl. 214-86.
Scott, Allan W. Integral microwave radiating and generating unit for heating. 3,448,384, 6-3-69, Cl. 325-120.
Scott, Angus A.; Boyer, John L.; and Hartman, Richard A., to International Rectifier Corporation. Semiconductor housing structure having flat strap with re-entrant bends for one terminal. 3,428,871, 2-18-69, Cl. 317-234.
Scott, Arthur A., to Dole Valve Company, The. Car heater valve. 3,461,913, 8-19-69, Cl. 137-627.5
Scott, Arthur L., to C/P Corporation. Electrical transmission tower of arch shape. 3,439,107, 4-15-69, Cl. 174-45.
Scott, Arthur L.; and Trewhella, Stephen W., to Columbia Products Company. Method and apparatus for making fiber glass shafts. 3,442,738, 5-6-69, Cl. 156-161.
Scott, Arthur W. Sign display construction. 3,443,330, 5-13-69, Cl. 40-65.
Scott, Benton B.: *See—*
De Marinis, Joseph V.; and Scott, Benton B.,3,450,834.
Scott, Benton Boyd; and Taylor, Thomas Lester, to Sylvania Electric Products, Inc. Single antenna dual frequency band signal coupling system. 3,465,344, 9-2-69, Cl. 343-852.
Menendez, Joseph Lee; and Scott, Benton Boyd,3,439,116.
Scott, Bruce T.; and Scott, Kenneth E. Audio-visual music simulator apparatus. 3,446,109, 5-27-69, Cl. 84-478.
Scott, Charles E., to Air Products and Chemicals, Inc. Method of treating fluidizable particles. 3,451,948, 6-24-69, Cl. 252-455.
Scott, Charles F., to Myers Industries, Inc. Knockdown cabinet structures. 3,428,385, 2-18-69, Cl. 312-257.
Scott, Charles R., to Dow Chemical Company, The. Edible propylene glycol solid. 3,434,846, 3-25-69, Cl. 99-56.
Scott, Daniel G., to Westinghouse Air Brake Company. Fluid pressure brake control valve apparatus with selective direct or graduated release function. 3,429,620, 2-25-69, Cl. 303-36.
Scott, David A.: *See—*
Scott, Robert A.; Reese, Richard R.; and Scott, David A.,3,476,087.
Scott, Robert A.; Reese, Richard R.; and Scott, David A.,3,485,215.
Scott, David B.: *See—*
Phillips, Irvine L.; Scott, David B.; and Thompson, James M.,3,442,221.
Scott, Donald R.: *See—*
Richmond, James W.; and Scott, Donald R.,3,433,010.
Scott, Donald S.: *See—*
Fauth, John M.; and Scott, Donald S.,3,476,962.
Scott, Douglas R.: *See—*
Body, William K.; Locascio, Russell J.; Rice, Harold W.; and Scott, Douglas R.,3,442,448.
Scott, Earl V.: *See—*
Jantze, Clyde E.; Arnott, Edward A.; and Scott, Earl V.,3,465,703.
Scott Equipment Company, Inc.: *See—*
Scott, Joe, 3,479,242.
Scott, Ernest H.: *See—*
Carlson, John H.; and Scott, Ernest H.,3,424,273.
Scott, Ernest H., to USM Corporation. Method of making a roller bearing and an elliptoidal inner ring therefor. 3,471,913, 10-14-69, Cl. 29-148.4
Scott, Eugene W., to Westinghouse Electric Corporation. Water supply and dispensing apparatus. 3,456,847, 7-22-69, Cl. 222-95.
Scott, Eugene W., to Westinghouse Electric Corporation. Freezable water cooling chamber. 3,479,839, 11-25-69, Cl. 62-394.
Scott, Eugene W.; and Ter Bush, Charles F., to Westinghouse Electric Corporation. Liquid cooling chamber. 3,475,922, 11-4-69, Cl. 62-394.
Scott, Franklin R.; Fleischmann, Hans H. P.; and Tuckfield, Ralph G., Jr., to Gulf General Atomic Incorporated, mesne. Plasma manipulation method and apparatus. 3,445,722, 5-20-69, Cl. 315-111.
Scott, Frederick P., to King Laboratories, Inc. Quick flash high yield getter with means to re- strain warping and breaking of the getter material. 3,457,448, 7-22-69, Cl. 313-174.
Scott, George C.: *See—*
Bartley, Erle E.; and Scott, George C.,3,465,083.
Scott, Gerald C.: *See—*
Blythe, Richard; Marshall, Alvin E.; Mitchell, Claybourne, Jr.; Oser, George T.; and Scott, Gerald C.,3,448,267.
Scott, Gerald C., to Bendix Corporation, The. Image contrast control. 3,433,995, 3-18-69, Cl. 315-11.
Jones, Gwilym Thomas; Moyse, James Albert; and Scott, Gerald,3,455,734.
Scott, H. H., Inc.: *See—*
von Recklinghausen, Daniel R., 3,448,385.
Scott, Howard A. Golf ball teeing apparatus. 3,448,985, 6-10-69, Cl. 273-201.
Scott, Hugh L., to Screw Conveyor Corporation. Truck unloading apparatus. 3,437,221, 4-8-69, Cl. 214-49.
Scott, Ian J. C.: *See—*
Balan, Isadore; and Scott, Ian J. C.,3,447,624.
Scott, Ian J. C.: *See—*
Balan, Isadore; and Scott, Ian J. C.,3,447,624.
Scott, Jack N.: *See—*
Geib, Clarence B., Jr.; Jamison, George E.; and Scott, Jack N.,3,439,240.
Scott, James Anderson: *See—*
Scobie, David C. H.; and Scott, James Anderson,3,463,979.
Scott, James H. S.; and Salisbury, Wilfred. Inflatable mattresses. 3,426,373, 2-11-69, Cl. 5-348.
Scott, Jay R., to United States Steel Corporation. Apparatus for maintaining the gauge of steel strip. 3,440,846, 4-29-69, Cl. 72-11.
Scott, Jerry Bernard, to U.S. Plywood-Champion Papers Inc. Display package and carton therefor. 3,462,006, 8-19-69, Cl. 206-45.14
Scott, Joe, to Scott Equipment Company, Inc. Reinforcing machine. 3,479,242, 11-18-69, Cl. 156-522.
Scott, John Alexander Henderson, to Rolls-Royce Limited. Jet engines with cooling means. 3,422,623, 1-21-69, Cl. 60-226.
Scott, John Edward. Soil compactor. 3,426,660, 2-11-69, Cl. 94-50.
Scott, John E. Polishing apparatus. 3,447,268, 6-3-69, Cl. 51-4.
Scott, John E., to Sperry Rand Corporation. Analog-to-digital converters. 3,453,615, 7-1-69, Cl. 340-347.
Scott, John H., to Lukens Steel Company. Method for forecasting physical characteristics of thick steel plate. 3,453,863, 7-8-69, Cl. 73-15.
Scott, John M. Wedge-shaped golf swing trainer. 3,427,031, 2-11-69, Cl. 273-186.

Scott, John V.: *See—*
Farrington, John A., Jr.; Flynn, Gordon L.; Phillips, Stancel D.; and Scott, John V.,3,470,528.
Scott, John W., Jr., to Chevron Research Company. Hydrotreating apparatus. 3,425,810, 2-4-69, Cl. 23-289.
Scott, John Wright Martin. Golf club. 3,421,765, 1-14-69, Cl. 273-163.
Scott, Joseph H., Jr., to RCA Corporation. Semiconductor junction device. 3,460,007, 8-5-69, Cl. 317-235.
Scott, Joseph H., Jr., to RCA Corporation. Vapor deposition of silicon-nitrogen insulating coatings. 3,472,689, 10-14-69, Cl. 117-212.
Scott, Joseph H., Jr.; and Olmstead, John A., to RCA Corporation. Remote cutoff junction gate field effect transistor. 3,449,647, 6-10-69, Cl. 317-235.
Scott, Joseph J., to American Air & Power Company. Adjustable inserted wrench combination tool including link means having plural openings. 3,424,039, 1-28-69, Cl. 81-177.
Scott, Junius Denny, to FMC Corporation. SCR triggering circuit. 3,474,316, 10-21-69, Cl. 318-227.
Scott, Kenneth A.: *See—*
Peterkin, Melvin E.; and Scott, Kenneth A.,3,485,885.
Scott, Kenneth E.: *See—*
Scott, Bruce T.; and Scott, Kenneth E.,3,446,109.
Scott, L. J., Jr.: *See—*
Hook, Fred E.; Kucera, Clare H.; and Scott, L. J., Jr.,3,465,825.
Scott, Larkin B.; and Keats, George H., to Perkin-Elmer Corporation, The. Logarithmic ratiometer with digital output. 3,467,865, 9-16-69, Cl. 324-140.
Scott, Lawrence P. Motorized jack. 3,451,655, 6-24-69, Cl. 254-7.
Scott, Lyle B., to Jackson, Byron, Inc. Conduit plug for separating fluids. 3,437,137, 4-8-69, Cl. 166-153.
Scott, Lyle B., to Jackson, Byron, Inc. Drill stem fluid sampler. 3,437,138, 4-8-69, Cl. 166-162.
Scott, Lyle B., to Jackson, Byron, Inc. Method of removing solid propellant. 3,440,096, 4-22-69, Cl. 134-24.
Scott, Lyle B., to Jackson, Byron, Inc. Adjustable tail pipe for well tools. 3,447,606, 6-3-69, Cl. 166-237.
Scott, Lyle B., to Jackson, Byron, Inc. Pressure openable tubing tester. 3,470,903, 10-7-69, Cl. 137-467.
Scott, Marvin R., to Detroit Flame Hardening Company. Torsion straightener. 3,451,245, 6-24-69, Cl. 72-299.
Scott, Marvin R., to Detroit Flame Hardening Company. Surface hardened sugar roll. 3,472,160, 10-14-69, Cl. 100-176.
Scott, Marvin, to U.S. Plywood-Champion Papers Inc. Screening system and apparatus. 3,442,253, 5-6-69, Cl. 118-603.
Scott, Morton W.; Hayes, Raymond K.; and Levine, Sol, to Del Laboratories, Inc. System for heat accelerated coloring or permanent waving of hair on the human scalp. 3,437,095, 4-8-69, Cl. 132-7.
Scott, Morton W.; and Levine, Sol, to Del Laboratories, Inc. Compressed cosmetic powder article with fragile protective film adhered on exposed surface thereof. 3,471,611, 10-7-69, Cl. 424-6.
Scott, Norman H., to Universal Oil Products Company. Method of separation of gaseous hydrocarbons from gasoline. 3,470,084, 9-30-69, Cl. 208-101.
Scott, O. M., & Sons Company, The: *See—*
Mc Vey, George R.; Long, John A.; and Timmons, Richard J., 3,462,257.
Shapland, Earl P., Jr.; and West, John R., 3,460,629.
Wietelmann, Ronald E.; and Wittenbrook, Lawrence S., 3,449,390.
Scott, Ozbert M. Snelled fishhook receptacle. 3,464,143, 9-2-69, Cl. 43-57.5
Scott Paper Company: *See—*
Adams, Whitney R.; and Mack, Edgar O., 3,458,338.
Benson, Robert A., 3,463,661.
Benson, Robert A.; and Jones, Robert L., 3,480,466.
Cole, Richard I.; Holcroft, Donald E.; Milligan, Edward A.; and Greenhalgh, Samuel, 3,432,936.
Conte, John S.; and Faessinger, Robert W., 3,420,735.
Corazza, Marshall L., 3,484,510.
Erspamer, August S.; and Sherman, William R., 3,448,529.
Faessinger, Robert W.; and Conte, John S., 3,450,614.
Herman, Walter H.; Ray, Walter S.; and Crowe, Robert C., 3,457,896.
Herman, Walter H., 3,470,052.
Johansen, John H.; and Herman, Walter H., 3,441,129.
La Pointe, Edward M., 3,442,463.
Lewicki, Walter J., Jr., 3,484,275.
McConnell, Albert L.; Meisel, Fred W., Jr.; and Adams, Whitney R., 3,425,882.
McConnell, Albert L.; Pociluyko, Alexander; and Adams, Whitney R., 3,461,872.
Meisel, Fred W., Jr., 3,431,911.
Merrill, Alan M.; and Cieslik, Robert J., 3,473,748.
Oransky, Raymond L.; and Rombalski, Richard H., 3,480,432.
Powers, William Richards, 3,425,890.
Ramaika, Lawrence T., 3,461,498.
Simpson, Donald A.; and Swift, Richard L., 3,477,759.
Sutton, Robert G., 3,423,337.
Sutton, Robert G., 3,423,338.
Talley, James E., Jr.; Spraker, Wilbur A., Jr.; and Elderkin, Richard L., 3,473,238.
Weinstein, James D.; Downer, Robert B.; Meddleycott, Clyde E.; and Meddleycott, William R., 3,456,270.
Yiannos, Peter N., 3,428,520.
Yiannos, Peter N.; and Britt, Kenneth W., 3,458,394.
Scott, Paul R., to Shell Oil Company. Transport of solids with petroleum in pipelines. 3,432,209, 3-11-69, Cl. 302-66.
Scott, Paul R.; and Scheuerman, Ronald F., to Shell Oil Company. Process for transporting viscous fluids. 3,474,596, 10-28-69, Cl. 55-45.
Scott, Paul R.; and Scheuerman, Ronald F. Shell Oil Company Pipeline transportation of liquid anhydrous ammonia and liquid hydrocarbon solutions. 3,480,024, 11-25-69, Cl. 137-1.
Scott, Paul R.: *See—*
Scheuerman, Ronald F.; Scott, Paul R.; and Fraser, John P.,3,438,680.
Mathers, Harold M.; and Scott, Paul,3,479,821.
Scott, Phillips Brooks: *See—*
Wennik, Lawrence Paul; and Scott, Phillips Brooks,3,476,954.
Scott, Ralph H. Device for detecting variations in magnetic properties of ferromagnetic material. 3,444,458, 5-13-69, Cl. 324-34.
Scott, Ray A., to Coats Company, Inc., The. Adapter for use with tire changing stands. 3,474,840, 10-28-69, Cl. 144-288.
Scott, Richard D., to United States of America, Army, mesne. Hydrodynamically supported magnetic head. 3,479,661, 11-18-69, Cl. 340-174.1
Scott, Robert A.; Reese, Richard R.; and Scott, David A. Feeding device. 3,476,087, 11-4-69, Cl. 119-52.
Scott, Robert A.; Reese, Richard R.; and Scott, David A., to Beacon Steel Products Company, Inc. Feeding device. 3,485,215, 12-23-69, Cl. 119-51.11
Scott, Robert C. Load measuring apparatus. 3,486,373, 12-30-69, Cl. 73-141.
Scott, Robert H.: *See—*
Bernotas, Ralph J.; Fisher, James W.; and Scott, Robert H.,3,466,765.
Scott, Robert K.: *See—*
Henry, George R.; and Scott, Robert K.,3,449,478.
Scott, Ronald F.; and Ko, Hon-Yim, to California Institute Research Foundation. Testing container. 3,423,995, 1-28-69, Cl. 73-94.
Scott, Ronald F.; Ko, Hon-Yim; and Auksmann, Boris, to California Institute Research Foundation. Testing apparatus. 3,423,994, 1-28-69, Cl. 73-94.
Scott, Stanley G.: *See—*
Kerwin, William J.; and Scott, Stanley G.,3,423,608.
Scott, Victor P.: *See—*
Fink, Homer Russell, Jr.; and Scott, Victor P.,3,444,664.
Scott, William B., Jr.; and Mundschenk, Glenn R., to General Electric Company. Apparatus for mounting rotatable shaft. 3,451,733, 6-24-69, Cl. 308-15.
Scott, William F.: *See—*
Bible, Robert E.; McIntyre, Robert L.; Scott, William F.; and Trostrud, Arville T., Jr.,3,443,076.
Scott, William H., to Portable Electric Tool, Inc. Hedge trimmer. 3,431,647, 3-11-69, Cl. 30-210.
Scott, William M.: *See—*
Kraychy, Stephen; Garland, Robert B.; Mizuba, Seth S.; and Scott, William M.,3,481,974.
Scott, William R. Dental prosthetic appliance connecting apparatus. 3,427,718, 2-18-69, Cl. 32-6.
Scott, William V.: *See—*
Bates, Martin R.; Prast, Johannes W.; and Scott, William V.,3,440,652.
Scott, William W., to Aerotron, Inc. Multi-wire cable continuity and short tester. 3,480,856, 11-25-69, Cl. 324-51.
Princz, Ferdinand; and Scott, William,3,426,609.
Scott-Monck, John A.: *See—*
Spriggs, Rueben S.; Learn, Arthur J.; and Scott-Monck, John A.,3,465,428.
Scott-Scott, John Lanfear: *See—*
Mottram, Anthony William Thomas; and Scott-Scott, John Lanfear,3,442,220.
Scotti, Frank, to American Cyanamid Company. Use of alkylguanidine salts as virucides. 3,436,461, 4-1-69, Cl. 424-315.
Scotti, Tullio: *See—*
Amici, Alba Maria; Minghetti, Anacleto; Scotti, Tullio; Spalla, Celestino; and Tognoli, Luigi,3,485,722.
Scottish Agricultural Industries Limited: *See—*
Ewart, George; and Raitt, John Stewart, 3,432,261.
Scotto, Dominick P., to AMBAC Industries Incorporated. Shock isolating means. 3,459,395, 8-5-69, Cl. 248-20.
Scotto, Vincent: *See—*
Westeren, Herbert W.; Kimball, William H.; and Scotto, Vincent,3,431,346.
Scotton, William R.: *See—*
Murie, Peter, Jr.; and Scotton, William R.,3,439,934.
Scourtas, Charles C., 1/2 to Boring and Boring, Inc. Washing machine load weighing and control apparatus. 3,470,718, 10-7-69, Cl. 68-12.

Scovil, Henry E. D., to Bell Telephone Laboratories, Incorporated. Magnetic domain wall logic circuit. 3,458,714, 7-29-69, Cl. 307-88.
Scovil, Henry E. D., to Bell Telephone Laboratories, Incorporated. Magnetic memory having plural domain wall positions per bit. 3,471,841, 10-7-69, Cl. 340-174.
Scovil, Henry E. D.: *See—*
Gianola, Umberto F.; Kaenel, Reginald A.; and Scovil, Henry E. D.,3,430,001.
Scovill Manufacturing Company: *See—*
Andrews, Hugh Hill, 3,469,290.
Ashman, Robert B., 3,486,522.
Burbank, John E., 3,454,052.
Burbank, John Emerson, 3,457,964.
Burbank, John Emerson, 3,457,965.
Cuckson, Eric Engel; and Jones, Arthur Llewelyn, 3,445,915.
Daddona, Domenic J., Jr.; and Andrews, Hugh H., 3,454,994.
Daddona, Domenic J., Jr., 3,470,637.
Dritz, Arthur, 3,430,346.
Foults, Jonathan A., 3,453,005.
Freeman, Richard B., 3,430,539.
Freeman, Richard B., 3,457,763.
Green, Derek B., 3,434,695.
Green, Derek Bernard, 3,434,633.
Green, Derek Bernard, 3,482,736.
Hickey, Richard A., 3,471,092.
Kachergis, Henry J., 3,428,089.
Kilmarx, Louis E., 3,464,309.
Le Page, Gerard, 3,442,103.
Mitchell, William Colton, 3,463,346.
Riccio, Pasquale R., 3,459,244.
Rowlands, David H., 3,427,692.
Seaver, Donald A., 3,429,643.
Seaver, Donald A., 3,438,714.
Treharne, Richard E., Jr., 3,441,177.
Wallin, Gus W.; and Bessent, John W., 3,426,261.
Scovill, Royal J. Navigational chart display apparatus. 3,474,556, 10-28-69, Cl. 40-31.
Scovill, Royal J. Aircraft navigation computer apparatus. 3,475,754, 10-28-69, Cl. 343-112.
Scow, Kenneth B.: *See—*
Boudreaux, Lee J.; Flur, Barry L.; and Scow, Kenneth B.,3,470,020.
Scowalter, Merle J., to Armstrong Cork Company. Process of forming moisture resistant hardboard containing tall oil. 3,455,779, 7-15-69, Cl. 162-179.
Scragg A.G.: *See—*
Scragg, Frederick; Parker, Walter; and McNeight, David Leslie, 3,461,657.
Scragg, Ernest, & Sons Limited: *See—*
Davies, John Peter, 3,484,050.
Parker, Walter, 3,421,192.
Parker, Walter, 3,437,283.
Parker, Walter, 3,460,335.
Parker, Walter; and Forward, Philip, 3,465,509.
Parker, Walter, 3,468,002.
Scragg, Frederick; and Chubb, Alexander Albert, 3,444,600.
Scragg, Frederick; Parker, Walter; and McNeight, David Leslie, 3,461,657.
Scragg, Ernest Philip Rushton. Treatment of artificial yarns and threads. 3,472,011, 10-14-69, Cl. 57-34.
Scragg, Frederick; and Chubb, Alexander Albert, to Scragg, Ernest, & Sons Limited. Apparatus for processing synthetic plastic filaments. 3,444,600, 5-20-69, Cl. 28-1.
Scragg, Frederick; Parker, Walter; and McNeight, David Leslie, to Scragg, Ernest, & Sons Limited, and Scragg A.G. Textile apparatus. 3,461,657, 8-19-69, Cl. 57-34.
Screen Printing Systems, Inc.: *See—*
Reinke, George W., 3,482,300.
Screen-Flock Industries, Inc.: *See—*
Karsten, Ralph, 3,458,340.
Screttas, Constantinos G., to Lithium Corporation. Method of carrying out telomerization reactions. 3,468,970, 9-23-69, Cl. 260-668.
Screw and Bolt Corporation of America: *See—*
Johnson, Kenneth L., 3,435,871.
Johnson, Kenneth L., 3,456,704.
Screw Conveyor Corporation: *See—*
Scott, Hugh L., 3,437,221.
Scribe Internationale: *See—*
Flubacker, Charles H., 3,470,777.
Scribner, Albert W., and Halvar Associates: *See—*
Halverson, Richard O., 3,464,279.
Scribner, Albert W. Stock feeder. 3,462,056, 8-19-69, Cl. 226-150.
Scribner, Albert W. Stock feeder. 3,485,430, 12-23-69, Cl. 226-141.
Scribner, Harry E. Universal shear. 3,440,910, 4-29-69, Cl. 83-94.
Scribner, Neal: *See—*
Harries, William S.; Piper, Robert G.; Daugherty, Don G.; Scribner, Neal; and Asnani, Gul C.,3,470,557.
Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. Selected 2-formyl-and 2α-(cyanoamidino)-A-nor- 5α-androstane derivatives. 3,424,751, 1-28-69, Cl. 260-247.2
Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. Bicyclo [2.2.2] octane and oct-2-ene-1- carboxylates of selected 17β-hydroxy steroids fused to a heterocyclic ring. 3,458,505, 7-29-69, Cl. 260-239.5
Scribner, William G.; and Schweitzer, George K., to Monsanto Research Corporation. Solvent extraction process for the recovery of metal values. 3,451,807, 6-24-69, Cl. 75-117.
Scripto, Inc.: *See—*
Daugherty, Phillip M.; Lovejoy, Charles K.; and Vaughan, Harry L., 3,467,564.
Scriptomatic, Inc.: *See—*
Kooch, George, 3,444,807.
Scroggie, James A.; Davidson, Miron; Hall, Floyd Charles; and Farley, George Albert, to Dobbie Industries, Limited, The. Method of skein dyeing yarn. 3,419,925, 1-7-69, Cl. 8-155.2
Scroggie, James A.; and Hall, Floyd Charles, to Dobbie Industries Limited, The. Stationary swift. 3,421,712, 1-14-70, Cl. 242-110.1
Scroggs, John E.; Webb, John E.; and Schlund, Glenn F.Trackman's car. 3,424,106, 1-28-69, Cl. 105-26.1
Scroop, Francis R.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,506.
Scroop, Francis R., to Whirlpool Corporation. Cabinet structure. 3,442,563, 5-6-69, Cl. 312-223.
Scru-Fix Limited: *See—*
Holdsworth, John Frederick, 3,474,504.
Scruby, Stanley R.; and McIver, Donald J., to Keystone Valve Corporation, mesne. Axial groove conveying tube. 3,464,740, 9-2-69, Cl. 302-64.
Scruggs, David M.: *See—*
Herald, Conrad D.; and Scruggs, David M.,3,468,658.
Scruggs, Jack G., to Monsanto Company. Novel polyesteramides and the preparation thereof. 3,420,802, 1-7-69, Cl. 260-75.
Scruggs, Jack G., to Monsanto Company. Process for making core spun yarns. 3,439,491, 4-22-69, Cl. 57-160.
Scruggs, Jack G.; and Tate, Cilton W., to Monsanto Company. Polypropylene containing partially hydrolyzed ethylene-vinyl acetate copolymer. 3,426,107, 2-4-69, Cl. 260-897.
Scruggs, Jack G.: *See—*
Harris, Henry E.; and Scruggs, Jack G.,3,424,828.
Scudder, Kenneth R.: *See—*
Burke, John F.; Scudder, Kenneth R.; and Dunn, John L.,3,454,023.
Scudner, Frank G., Jr., to Bell Telephone Laboratories, Incorporated. Gas tube surge (overload) protection device. 3,454,811, 7-8-69, Cl. 313-220.
Scudo, Aldo: *See—*
Gartzke, Donald G.; and Scudo, Aldo,3,474,391.
Scuitto, Thomas J., to Wyle Laboratories. Calculating apparatus with display means. 3,428,793, 2-18-69, Cl. 235-160.
Scull, Louis C. Actuation gear for a ratchet wrench. 3,463,038, 8-26-69, Cl. 81-58.1
Scullin, Carl H.; and Powell, Kenneth D., to Westinghouse Electric Corporation. Sensor for detection of frequency of a reed modulated magnetron. 3,440,565, 4-22-69, Cl. 332-5.
Scully International Corporation: *See—*
Rumbarger, John H., 3,448,632.
Scully, John K., to PRD Electronics, Inc. Wideband ratiometer. 3,458,824, 7-29-69, Cl. 328-161.
Scully, John W., to Pneumatic Scale Corporation. Carton forming block. 3,424,068, 1-28-69, Cl. 93-59.
Scully, John W., to Pneumatic Scale Corporation. Carton blank feeding. 3,429,570, 2-25-69, Cl. 271-12.
Scully, John W., to Pneumatic Scale Corporation. Container forming machine. 3,476,022, 11-4-69, Cl. 93-12.
Scully Signal Corporation: *See—*
Sergeant, Thomas R., 3,461,446.
Scurlock, Inc.: *See—*
Chernack, Milton P.; and Torongo, Albert H., Jr., 3,448,495.
Scurlock, Robert L.; and Torongo, Albert, Jr., 3,480,192.
Scurlock, Robert L.; and Torongo, Albert, Jr., to Scurlock, Inc. Apparatus for attaching buttons. 3,480,192, 11-25-69, Cl. 227-120.
Scuro, Samuel J.: *See—*
Duncan, Charles S.; and Scuro, Samuel J.,3,444,006.
Sea-Chem Industries Ltd.: *See—*
Huff, Major Walter, 3,449,892.
Huff, Walter, 3,439,449.
Sea-Land Service, Inc.: *See—*
Campbell, Robert N., Jr.; and Williams, John H., 3,426,878.
Seaberg, Leonard J., to Eastman Kodak Company. Strip retrieval apparatus with movable scale. 3,473,506, 10-21-69, Cl. 116-124.
Seaberg, Leonard J.: *See—*
Schneeberger, Donald R.; and Seaberg, Leonard J.,3,476,472.
Seablom, Wendell, to Controlled Mercury Switch Corporation. Pipe fitting construction. 3,429,593, 2-25-69, Cl. 285-247.
Seaborn, Charles, Sr.: *See—*
Morris, William Whitby, 3,482,807.
Seaborn, Paul E., to FMC Corporation. Automatic weighing and fill control apparatus. 3,451,549, 6-24-69, Cl. 209-121.

Seaborn, Paul E.; and Thompson, Wendell S., to FMC Corporation. Assembly for sorting articles by weight. 3,434,595, 3-25-69, Cl. 209-121.
Seabury, Richard W., Jr., to Radio Frequency Laboratories, Inc. Electrical instrument having a rotatable member supported by a catenary suspension system. 3,464,014, 8-26-69, Cl. 324-154.
Seacy, Eric George; and Whitehall, Francis Brian, to Ferranti, Limited. Aircraft navigational equipment. 3,473,007, 10-14-69, Cl. 235-150.22
Seagrave, James; and Welburn, Norman, to AMP Incorporated. Cartridge fuse connector and connecting block. 3,486,154, 12-23-69, Cl. 337-188.
Seagrave, Leslie. Radiant energy hair processing machine. 3,420,247, 1-7-69, Cl. 132-9.
Seagraves Industries, Inc.: *See*—
Streetman, Foy J., 3,423,774.
Seaguist Valve Company: *See*—
Evesque, Roger A., 3,472,531.
Seakan, Raymond. Vehicle washer. 3,428,983, 2-25-69, Cl. 15-21.
Seal Basin Marine Company: *See*—
Brown, Paul R., 3,431,568.
Brown, Paul R., 3,438,073.
Brown, Paul R., 3,473,505.
Seal, Edgar L. Paint brush drip protector. 3,462,789, 8-26-69, Cl. 15-166.
Sealectro Corporation: *See*—
Brishka, Alexander R., 3,432,798.
de Robertis, Joseph; and Genovese, David, 3,470,334.
De Robertis, Joseph, 3,476,983.
Deakin, Stanley Thomas, 3,437,794.
Iantorno, James, 3,460,234.
Sealectro Limited: *See*—
Deakin, Stanley Thomas, 3,423,716.
Deakin, Stanley Thomas, 3,452,166.
Deakin, Stanley Thomas, 3,452,315.
Deakin, Stanley Thomas, 3,456,160.
Deakin, Stanley Thomas, 3,458,848.
Deakin, Stanley Thomas, 3,465,283.
Taylor, Thomas Charles, 3,449,533.
Sealed Power Corporation: *See*—
De Bruin, Calvin N., 3,427,014.
Hesling, Donald M.; and De Bruin, Calvin N., 3,430,968.
Warrick, Frank G., 3,477,732.
Sealed Unit Parts Co., Inc.: *See*—
Ehrens, Henry; and Weiner, Sidney, 3,456,675.
Ehrens, Henry; and Weiner, Sidney, 3,480,036.
Sealey, Billy J.: *See*—
Hamson, Frank C., 3,435,961.
Scaley, William C.; and Waterman, Michael W., to Allis-Chalmers Manufacturing Company. Magnetic yoke for shunt reactor. 3,466,582, 9-9-69, Cl. 336-60.
Scalomatic Electronics Corp.: *See*—
Gross, Jenoe, 3,431,822.
Seals Corporation of America: *See*—
Blaha, Emil, 3,423,217.
Seals, William O.; Dunigan, Thomas E.; and Picard, Jean P., to United States of America, Army. Solidified plastic matrix containing white phosphorous. 3,431,153, 3-4-69, Cl. 149-19.
Sealtronics, Inc.: *See*—
Williams, Neal T., 3,465,109.
Seaman, David: *See*—
Massam, Joseph Paul; and Seaman, David,3,437,503.
Seaman, Donald J., to Seaman Nuclear Corporation. Grade and alignment apparatus utilizing closed circuit television. 3,426,146, 2-4-69, Cl. 178-6.8
Seaman, Edward. Attachment means for pocket or buttonhole slitter. 3,440,982, 4-29-69, Cl. 112-68.
Seaman, Gary G.; and Trenerry, James A., to Western Electric Company, Incorporated. Article assembling apparatus. 3,431,387, 3-4-69, Cl. 219-79.
Seaman Nuclear Corporation: *See*—
Seaman, Donald J., 3,426,146.
Seaman, Thomas R., to Borg-Warner Corporation, mesne. Composite drive wheel. 3,469,467, 9-30-69, Cl. 74-243.
Seamands, Robert E.; and Williams, Jimmy H., to United States of America, Army. Compression rod actuator. 3,430,541, 3-4-69, Cl. 92-113.
Seamon, A & L, Inc.: *See*—
Seamon, Al, 3,433,279.
Seamon, Al, to Seamon, A & L, Inc. Article of leather goods having foldable multi- card holder. 3,433,279, 3-18-69, Cl. 150-39.
Seamone, Woodrow, to United States of America, Navy. Fuel throttling computer. 3,448,947, 6-10-69, Cl. 244-77.
Seanor, Rex C.; and Lake, Charles G., to Adamson United Company. Calender with removable bearing pressure mechanism. 3,448,683, 6-10-69, Cl. 100-170.
Seanor, Rex C.; and Perlberg, S Everett, to Adamson United Company. Automatic plastic mixing apparatus. 3,447,201, 6-3-69, Cl. 18-2.
Seanor, Rex C.; and Perlberg, S Everett, to Adamson United Company. Apparatus for automatically measuring proper additive quantities in a mixing apparatus. 3,448,967, 6-10-69, Cl. 259-154.
Seaquist Valve Company: *See*—
Evesque, Roger A., 3,433,419.
Holmer, Charles B.; and Olsson, Kjell, 3,448,854.
Stirling, Loren D., 3,426,948.
Sear, Brian E., to Bunker-Ramo Corporation, The. Power amplifier. 3,462,699, 8-19-69, Cl. 330-34.
Sear, Stuart B. Apparatus for high-speed treatment of continuously moving material. 3,477,500, 11-11-69, Cl. 165-89.
Searcy, Homer A.: *See*—
Churchill, Ivan F.; Searcy, Homer A.; and Taylor, Monroe F.,3,469,368.
Searle , G. D., & Co.: *See*—
Klimstra, Paul D., 3,435,030.
Searle, G. D., & Co.: *See*—
Baran, John S., 3,449,383.
Baran, John S., 3,452,062.
Baran, John S., 3,462,426.
Baran, John S., 3,465,010.
Baran, John S., 3,476,773.
Baran, John S., 3,483,226.
Benn, Walter R., 3,448,126.
Benn, Walter R., 3,484,463.
Brown, Edward A., 3,422,096.
Brown, Edward A., 3,438,979.
Brown, Edward A., 3,475,420.
Brown, Edward A., 3,483,192.
Chinn, Leland J., 3,427,305.
Chinn, Leland J., 3,436,412.
Chinn, Leland J., 3,462,466.
Chinn, Leland J., 3,475,451.
Dryden, Hugh L., Jr.; and Webber, Gayle M., 3,455,907.
Goldkamp, Arthur H., 3,480,618.
Johns, William F., 3,462,422.
Klimsta, Paul D., 3,452,063.
Klimstra, Paul D., 3,423,404.
Klimstra, Paul D., 3,423,435.
Klimstra, Paul D., 3,424,768.
Klimstra, Paul D., 3,426,048.
Klimstra, Paul D., 3,435,055.
Klimstra, Paul D., 3,462,467.
Klimstra, Paul D., 3,467,682.
Klimstra, Paul D., 3,471,526.
Klimstra, Paul D., 3,483,234.
Kraychy, Stephen; Garland, Robert B.; Mizuba, Seth S.; and Scott, William M., 3,481,974.
Krimmel, Carl Peter, 3,432,510.
Krimmel, Carl Peter, 3,452,082.
Krimmel, Carl Peter, 3,464,998.
Krimmel, Carl Peter, 3,479,364.
Mazur, Robert H.; Goldkamp, Arthur H.; and Schlatter, James M., 3,475,403.
Pappo, Raphael; and Scaros, Mike G., 3,444,206.
Schroeder, Elmer F., 3,458,512.
Short, George E., 3,469,007.
Wagner, Hans A., 3,455,921.
Wagner, Hans A., 3,459,758.
Wagner, Hans A., 3,476,764.
Wagner, Hans A., 3,479,357.
Wagner, Hans A., 3,481,932.
Yonan, Peter, 3,433,793.
Searle, Harold Trevor: *See*—
Paddock, Norman Lovelace; and Searle, Harold Trevor,3,462,247.
Searle, Robert J. G.: *See*—
Chopard, Perre-Antoine; and Searle, Robert J. G.,3,424,799.
Searle, Russell John. Man-powered wheeled vehicles. 3,485,509, 12-23-69, Cl. 280-243.
Searles, Amos. Conveyor belt cleaner. 3,430,758, 3-4-69, Cl. 198-230.
Searles, John J., to Ford Motor Company. Multiple drive range control valve system for an automatic transmission. 3,424,037, 1-28-69, Cl. 74-869.
Searles, John J., to Ford Motor Company. Automatic power transmission mechanism with dual range drive controls. 3,446,098, 5-27-69, Cl. 74-869.
Sears, George W., Jr., to Du Pont de Nemours, E. I., and Company. Self-curing inorganic zinc-rich paint. 3,455,709, 7-15-69, Cl. 106-84.
Sears, Lawrence: *See*—
Scardaville, Paul; Wetherell, Thomas; and Sears, Lawrence,3,427,206.
Sears, Roebuck and Co.: *See*—
Burke, James F.; and Rusk, Thomas L., 3,422,460.
Lasseigne, Albon J., 3,479,498.
Sears, Vernon F.; MacDonald, William D.; and Comlossy, Frederic B., to U.S. Plywood-Champion Papers, Inc. Textured panel and process of producing same. 3,441,959, 4-29-69, Cl. 161-161.

Seashore, Charles R.; and Tenbroek, Henry W., to Honeywell Inc. Control signal apparatus for aircraft. 3,460,066, 8-5-69, Cl. 340-26.
Season-All Industries, Inc.: *See—*
Biro, Alexander J., 3,430,385.
Biro, Alexander J., 3,449,862.
Biro, Alexander J., 3,472,543.
Seaton, Stuart L., to United States of America, National Aeronautics and Space Administration. Method for measuring the characteristics of a gas. 3,446,558, 5-27-69, Cl. 356-104.
Seaton, Stuart L., to United States of America, National Aeronautics and Space Administration. Laser calibrator. 3,469,087, 9-23-69, Cl. 250-199.
Seaton, William H.: *See—*
Stanin, Theodore E.; Seaton, William H.; and Hale, Chapman M., Jr.,3,436,428.
Seats, Peter, to Thomas Electronics, Inc. Dark trace storage tube. 3,447,020, 5-27-69, Cl. 315-10.
Seaver, Donald A., to Scovill Manufacturing Company. Replaceable lipstick container. 3,429,643, 2-25-69, Cl. 401-75.
Seaver, Donald A., to Scovill Manufacturing Company. Swivel-type lipstick container. 3,438,714, 4-15-69, Cl. 401-78.
Seavey, Clifford E.: *See—*
Hassell, Jack V., 3,449,855.
Seawall, Carl. Receptacle attachment for telephones. 3,428,285, 2-18-69, Cl. 248-311.
Seay, Dwight G.: *See—*
Keller, Harold A.; and Seay, Dwight G.,3,463,483.
Shelton, Norman Thomas; Keller, Harold A.; and Seay, Dwight G.,3,461,932.
Seay, Mark O. Roller bearing for digging wheel of excavating machinery. 3,432,215, 3-11-69, Cl. 308-187.
Seay, Orum E., to Halliburton Company. Techniques for determining characteristics of subterranean formations. 3,427,652, 2-11-69, Cl. 166-250.
Seay, Orum E., to Halliburton Company. Hydraulically dampened railway truck bolster. 3,464,366, 9-2-69, Cl. 105-197.
Sebastian, Manuel B. Device for concreting and leveling of inclined and curved surfaces. 3,422,731, 1-21-69, Cl. 94-48.
Sebastiani, Carlo. Spraying method and apparatus to lubricate punch surfaces of tabletting machines. 3,461,195, 8-12-69, Cl. 264-109.
Sebba, Felix; Jonaitis, Charles W.; Ray, Charles L.; and Baarson, Robert E., said Jonaitis, said Ray and said Baarson assors. to Armour and Company. Precipitate flotation process. 3,476,553, 11-4-69, Cl. 75-108.
Sebborn, Walter Sidney: *See—*
Priestley, Philip Thorpe; Sebborn, Walter Sidney; and Selman, Raymond Frank William,3,436,190.
Sebens, Carl R.; and Vollmer, John W., to Perkin-Elmer Corporation, The. Liquid hollow cathode lamp. 3,422,301, 1-14-69, Cl. 313-311.
Sebern, Richard C., to McDonnell Douglas Corporation, mesne. Aircraft flight instrument failure monitor and warning system. 3,439,321, 4-15-69, Cl. 340-27.
Sebers, Ralph A.; and Smith, Donald E. Steel guitar tuning mechanism. 3,452,635, 7-1-69, Cl. 84-312.
Sebesta, George J. Underwater communication transducers. 3,427,579, 2-11-69, Cl. 340-14.
Sebesta, George J.; and Carlisle, Richard W., to Dyna Magnetic Devices,Inc. Sub-miniature sound transducers. 3,432,622, 3-11-69, Cl. 179-115.
Sebestyen, Nikolaus: *See—*
Rosner, Ortwin; Schlegel, Franz; and Sebestyen, Nikolaus,3,429,997.
Sebestyen, Nikolaus, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Device for the simultaneous measurement of optical rotation and circular dichroism. 3,450,478, 6-17-69, Cl. 356-117.
Sebestyen, Thomas M., to Ford Motor Company. Speed limiting device. 3,433,263, 3-18-69, Cl. 137-624.15
Sebold, Otto E., to McDowell-Wellman Engineering Company. Load control means for bucket wheel excavators. 3,461,580, 8-19-69, Cl. 37-189.
Seborg, Earnest Y.: *See—*
Kampmeier, Frederick J.; and Seborg, Earnest Y.,3,438,287.
Sebrefina SA: *See—*
Rausing, Hans Anders; and Rausing, Gad Anders, 3,469,760.
Sebring, Lowell W.: *See—*
Klawitter, Roland E.; Murley, Ellsworth M., Jr.; Rottmann, Hans R.; and Sebring, Lowell W.,3,466,452.
Sebring, Michael: *See—*
Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W.,3,471,302.
Sebulsky, Raynor T.: *See—*
Giannetti, Joseph P.; Henke, Alfred M.; Sebulsky, Raynor T.; and Starnes, William C.,3,466,250.
Giannetti, Joseph P.; Mc Ilvried, Howard G.; and Sebulsky, Raynor T.,3,472,790.
Giannetti, Joseph P.; McIlvried, Howard G., III; and Sebulsky, Raynor T.,3,441,514.
Hamilton, Harry A.; McIlvried, Howard G.; and Sebulsky, Raynor T.,3,461,064.
Seccombe, Robert Charles. Rotating lock for automatic firearm. 3,429,223, 2-25-69, Cl. 89-172.
Sechrist, Edward L. Sound reproduction system. 3,434,564, 3-25-69, Cl. 181-31.
Secim: *See—*
Tanqueray, Jacques, 3,452,884.
Seckel, Peter H. Method and apparatus for blowing and cutting tubing. 3,474,162, 10-21-69, Cl. 264-95.
Seckerson, Clifford A., to United-Carr Incorporated, mesne. Clip. 3,437,298, 4-8-69, Cl. 248-71.
Seckerson, Clifford Alexander, to United-Carr Incorporated. Stud mounted moulding fastener. 3,475,794, 11-4-69, Cl. 24-73.
Seckinger, Albert E., to Harley-Davidson Motor Co. Battery fill apparatus. 3,434,887, 3-25-69, Cl. 136-162.
Secor, Alice E.: *See—*
Secor, Lewis W.; and Secor, Alice E.,3,455,600.
Secor, Lewis W.; and Secor, Alice E. Rocking wheel chair. 3,455,600, 7-15-69, Cl. 297-45.
Secor, Robert B., to Filtrol Corporation. Catalyst for conversion of hydrocarbons, method for producing said catalyst, and hyrocarbon conversion processes. 3,446,727, 5-27-69, Cl. 208-120.
Secor, Sophie: *See—*
Saba, Shafie; a/k/a, 3,477,720.
Secrist, Harry E.; and Snyder, Joseph J. Electric post-hole digger. 3,429,386, 2-25-69, Cl. 175-170.
Securiton AG.: *See—*
Kuhn, Hans, 3,435,444.
Security Aluminum Company: *See—*
Denny, James M.; and Carlsson, Sven A., 3,440,785.
Security First National Bank: *See—*
Irasek, Eugene H., 3,429,436.
Security Fur Seal Co., Inc.: *See—*
Canter, George, 3,425,730.
Seda, Orlando L.; and Goudeau, Selena. Interlocking joint for collapsible structures. 3,450,293, 6-17-69, Cl. 220-4.
Sedam, Jason K., to Amseco Corporation. Connector assembly. 3,479,069, 11-18-69, Cl. 285-364.
Seddon, Robert M.; and Scarbrough, Lyle Dana, to Celanese Corporation. Process for producing finely divided solid acetal copolymers. 3,442,866, 5-6-69, Cl. 260-67.
Sederlund, Edward R.; and Schrenk, Walter, to Dow Chemical Company, The. Method and apparatus for the preparation of biaxially oriented film. 3,472,924, 10-14-69, Cl. 264-209.
Sederquist, Richard A., to United Aircraft Corporation. Method for producing hydrogen from hydrogen- containing feedstocks. 3,442,618, 5-6-69, Cl. 23-212.
Sederquist, Richard A., to United Aircraft Corporation. Method for catalytically reforming carbonaceous feedstock to produce hydrogen for use in fuel cells. 3,449,168, 6-10-69, Cl. 136-86.
Sederquist, Richard A.; Buswell, Richard F.; and Setzer, Herbert J., to United Aircraft Corporation. Method for producing hydrogen from hydrogen-containing feedstocks for use in fuel cell. 3,450,567, 6-17-69, Cl. 136-86.
Sederquist, Richard A.: *See—*
Buswell, Richard F.; Sederquist, Richard A.; and Setzer, Herbert J.,3,446,594.
Buswell, Richard F.; Setzer, Herbert J.; and Sederquist, Richard A.,3,476,534.
Sedgebeer, Albert Robert. Tire lifter. 3,482,719, 12-9-69, Cl. 214-332.
Sedgwick, Grant O.: *See—*
Graver, Richard B.; and Sedgwick, Grant O.,3,434,988.
Klare, Robert J.; and Sedgwick, Grant O.,3,423,341.
Sedgwick, Robert K., to Kearney & Trecker Corporation. Quill adjusting and locking means. 3,457,833, 7-29-69, Cl. 90-16.
Sedgwick, Robert K.; and Behrendt, Werner K., to Kearney & Trecker Corporation. Machine tool with automatic tapping control. 3,461,472, 8-19-69, Cl. 10-139.
Sedgwick, Robert K.; and Hughes, John J., to Kearney & Trecker Corporation. Recirculating ball worm drive. 3,468,179, 9-23-69, Cl. 74-425.
Sediey, Michel, to Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture. Direct production of solid calcium bromite. 3,462,241, 8-19-69, Cl. 23-85.
Sedlacek, Hugo, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Structural elements for dismountable bridges or the like. 3,438,076, 4-15-69, Cl. 14-14.
Sedlack, George, Jr.: *See—*
Crockett, Richard J.; and Sedlack, George, Jr.,3,453,539.
Sedlak, John Andrew, to American Cyanamid Company. Method of producing labeled polynuclear compounds. 3,475,507, 10-28-69, Cl. 260-668.
Sedlak, Rudolf P., to Todco Chemical Company, Inc. Novel zinc coating composition and method. 3,459,600, 8-5-69, Cl. 148-6.16
Sedley, Bruce S. Magnetically operated mechanism and magnetic card. 3,444,711, 5-20-69, Cl. 70-276.
Sedlock, Edward J.; Paquette, Charles F.; and Selfors, Henry J., to United Aircraft Corporation. Self-cooled electrical machines. 3,471,727, 10-7-69, Cl. 310-59.

Sedor, Edward A.: *See—*
Bloomquist, Arnold E.; Sedor, Edward A.; and Slagel, Robert C.,3,485,806.
Sedwick, Wallace J. Self-seating root forceps. 3,439,423, 4-22-69, Cl. 32-62.
See, Gary G. Cabbage harvester. 3,485,023, 12-23-69, Cl. 56-327.
See, Thomas E.: *See—*
Crosman, Dorland L.; See, Thomas E.; and Villasana, Armando P.,3,459,294.
Seebech, Robert W.: *See—*
Eagle, John H.; Harvey, Donald M.; and Seebech, Robert W.,3,455,218.
Seeber, Robert R.; and Lindquist, Arwin B., to International Business Machines Corporation. Range associative memory with ordered retrieval. 3,430,205, 2-25-69, Cl. 340-172.5
Seebinger, Frederick L., to American Trading & Production Corporation. Outdoor paging loudspeaker. 3,454,729, 7-8-69, Cl. 179-115.5
Seeburg Corporation, The: *See—*
Anderson, Carl J.; and Meixner, Edwin J., 3,437,763.
Bostrom, Harry H.; and Katzmarek, Albert G., 3,436,082.
Bowman, Raymond D., 3,486,601.
Gasiel, Joseph F.; and Downs, James C., 3,446,396.
Kenney, Mahlon W., 3,441,174.
Mallett, Alfred L., 3,478,633.
Payne, Harry R., 3,424,345.
Seme, Frank J., 3,433,114.
Seeder, Wilhelm A.; and van Zijl, Franciscus H., to Koninklijke Verkade Fabrieken N.V. Method and apparatus for making a baked edible tubular product. 3,444,826, 5-20-69, Cl. 107-4.
Seedhouse, Frederick A., to Bausch & Lomb, Incorporated. Zoom objective mounting pod. 3,437,404, 4-8-69, Cl. 350-255.
Seefelder, Matthias: *See—*
Hahn, Erwin; and Seefelder, Matthias,3,445,466.
Hahn, Erwin; and Seefelder, Matthias,3,478,045.
Seefelder, Matthias, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 4-formylmethylene-oxazolidinones-(2). 3,455,947, 7-15-69, Cl. 260-307.
Seefelder, Matthias; Ambrust, Herbert; and Wippel, Hans Guenter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Water-insoluble monoazo dyes containing a 2,1- benzoisothiazolyn-(3) radical. 3,455,898, 7-15-69, Cl. 260-158.
Seefluth, Charles L., to Phillips Petroleum Company. Apparatus for blow molding biaxially oriented articles. 3,439,380, 4-22-69, Cl. 18-5.
Seefluth, Charles L., to Phillips Petroleum Company. Thermoplastic parison heating. 3,445,096, 5-20-69, Cl. 263-3.
Seeger, Bernard I. Optical control of sunlight at window and door openings with controlled positioning of composite transparent materials to eliminate glaring sunlight rays while providing normal daylight illumination. 3,438,699, 4-15-69, Cl. 350-263.
Seeger, Bernard I. Optical control of sunlight at window a directionally selective, transparent sunshade to eliminate glaring sunlight rays while providing normal daylight illumination at windows. 3,471,221, 10-7-69, Cl. 350-263.
Seeger, Doris Ruth; and Tomcufcik, Andrew Stephen, to American Cyanamid Company. Bis (N,N'-diethylenephosphoramides). 3,446,812, 5-27-69, Cl. 260-296.
Seeger, Ernst: *See—*
Landgraf, Claus Adolf; and Seeger, Ernst,3,475,437.
Seeger, Ernst; Engel, Wolfhard; and Kadatz, Rudolf, to Boehringer Ingelheim G.m.b.H. Pyridyl-dihydroisoquinolines. 3,457,265, 7-22-69, Cl. 260-288.
Seeger, John W., to Seeger-Wanner Corporation. Crank means having an adjustable crank element. 3,470,823, 10-7-69, Cl. 103-38.
Seeger-Wanner Corporation: *See—*
Seeger, John W., 3,470,823.
Seegman, Irvin P.: *See—*
Morris, Lester; Thompson, Ron E.; and Seegman, Irvin P.,3,431,239.
Seek, Incorporated: *See—*
Cosby, Thomas L., 3,456,594.
Seel, Howard J.; and Anderson, Robert J., to Harris-Intertype Corporation. Shock absorber with movement limiting stop for rotary printing press cylinders. 3,453,955, 7-8-69, Cl. 101-216.
Seel, Howard J.: *See—*
Vandeman, Jack E.; and Seel, Howard J.,3,473,468.
Seelandt, Karl H., to Alco Standard Corporation, mesne. Vacuum heat treating furnace. 3,438,618, 4-15-69, Cl. 266-5.
Seelandt, Karl H.; and Twine, Charles J., to Alco Standard Corporation. Hearth for a heat treating furnace. 3,421,747, 1-14-69, Cl. 263-40.
Seelbach, Erich; and Suss, Hans. Vehicle track. 3,467,446, 9-16-69, Cl. 305-57.
Seelbach, Walter C.: *See—*
Allen, Frihoff Grant; and Seelbach, Walter C.,3,446,989.
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C.,3,444,395.
Foster, Philip B.; Gissel, Richard A.; and Seelbach, Walter C.,3,445,680.
Murray, Donald E.; and Seelbach, Walter C.,3,422,283.
Murray, Donald E.; and Seelbach, Walter C.,3,437,840.
Narud, Jan A.; and Seelbach, Walter C.,3,440,551.
Priel, Ury; and Seelbach, Walter C.,3,424,928.
Priel, Ury; Seelbach, Walter C.; and Treadway, Ronald L.,3,440,449.
Seelbach, Walter C., to Motorola, Inc. Diode transistor logic circuit having improved turn-on drive. 3,439,186, 4-15-69, Cl. 307-214.
Seelbach, Walter C.; and Kirkpatrick, Frederick J., to Motorola, Inc. Logic circuit. 3,437,831, 4-8-69, Cl. 307-215.
Seeley, Clarence Edward; and Smith, Charles Myron, to Anchor Hocking Corporation. Method and soda-lime batch for making molybdenum disulfide colored glass. 3,479,193, 11-18-69, Cl. 106-52.
Seeley, Donald B., to Pfizer, Chas., & Co., Inc. Surfactants in carbomycin A fermentation. 3,483,088, 12-9-69, Cl. 195-114.
Seeley, Eugene B., to United Control Corporation, mesne. Fluid flow detector. 3,438,254, 4-15-69, Cl. 73-204.
Seeley, Gerard: *See—*
Ernst, Eric O.; Hurd, Donald J.; and Seeley, Gerard,3,424,629.
Seeley, James E., to Mechanical Systems, Inc. Tank cleaning-in-place pumping system. 3,448,745, 6-10-69, Cl. 134-101.
Seeley, Robert L.: *See—*
Schlosser, Arthur J.; and Seeley, Robert L.,3,436,775.
Seeley, William M., to Frick Company. Refrigerant system employing liquid chilling evaporators. 3,481,151, 12-2-69, Cl. 62-196.
Seeley, William M., to Frick Company. Condenser head pressure control system. 3,481,152, 12-2-69, Cl. 62-196.
Seelig, Anton: *See—*
Stumpe, August Christian; Seelig, Anton; and Donges, Hans,3,476,979.
Seelig, Fritz, to Farbwerke Franz Rasquin G.m.b.H. Method of producing lead chromates. 3,434,857, 3-25-69, Cl. 106-298.
Seeliger, Kurt G.; and Strunk, Carleton L., to General Electric Company. Salient field pole having radial air ducts between end turn layers. 3,437,857, 4-8-69, Cl. 310-180.
Seeliger, Wolfgang, to Chemische Werke Huls Aktiengesellschaft. Process for the production of aliphatic or cycloaliphatic polyesters of carbonic acid. 3,432,473, 3-11-69, Cl. 260-77.5
Seeliger, Wolfgang; and Aufderhaar, Ernst, to Chemische Werke Huls, Aktiengesellschaft. Stable bromine addition compounds of 2-phenyl-2- oxazoline and 2-phenyl-4H-5,6-dihydro-1,3-oxazine. 3,450,699, 6-17-69, Cl. 260-244.
Seeliger, Wolfgang; and Nehring, Rudolf, to Chemische Werke Huls Aktiengesellschaft. Process for the production of high molecular weight esters of a carboxylic acid. 3,433,756, 3-18-69, Cl. 260-22.
Seeliger, Wolfgang: *See—*
Nehring, Rudolf; Feinauer, Roland; and Seeliger, Wolfgang,3,470,268.
Streck, Roland; and Seeliger, Wolfgang,3,476,730.
Seeloff, Melvin M., to Taylor-Winfield Corporation, The. Interleaved shear and seam welder. 3,428,775, 2-18-69, Cl. 219-82.
Seeloff, Melvin M., to Taylor-Winfield Corporation, The. Workpiece feeder having magazine escapement means. 3,433,388, 3-18-69, Cl. 221-274.
Seeloff, Melvin M., to Taylor-Winfield Corporation, The. Strip edge detection for machine function initiating device. 3,480,194, 11-25-69, Cl. 228-8.
Seeloff, Melvin M., to Taylor-Winfield Corporation, The. Strip welder with gauging and trimming means. 3,484,579, 12-16-69, Cl. 219-97.
Seeloff, Melvin M.; and Cooper, Joseph H., to Taylor-Winfield Corporation, The. Particle freebearing assembly. 3,433,537, 3-18-69, Cl. 308-6.
Seeloff, Melvin M.; and Cooper, Joseph H., to Taylor-Winfield Corporation, The. Weld flash trimmer. 3,457,834, 7-29-69, Cl. 90-42.
Seely, Earl S., to R F L Industries, Inc. Magnet charging fixture. 3,474,368, 10-21-69, Cl. 335-284.
Seemann, Andrew M.: *See—*
Micai, Louis Z.; and Seemann, Andrew M.,3,472,926.
Seemann, Donald Francis; Hestad, Alfred M.; and Jovic, Nikola Ljotic, to International Telephone and Telegraph Corporation. Trap circuit for use in an electronic switching telephone system. 3,449,526, 6-10-69, Cl. 179-18.
Seest, Tage B.; and Schmidt, Karl Lykke, to Aktieselskabet Brodrene Hartman. Packing of fibre mass or other resilient material for eggs and other fragile objects. 3,471,078, 10-7-69, Cl. 229-44.
Seetru Limited: *See—*
Madden, Andrew Sidney, 3,444,888.
Seevers, Delmar O.: *See—*
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O.,3,434,044.
Baker, Paul E.; Jones, Stanley B.; and Seevers, Delmar O.,3,462,674.
Seewald, Ralph J. Play toy. 3,446,510, 5-27-69, Cl. 280-7.1
Seewar, Gustave A.: *See—*
Chapuis, Willy; and Kuhner, Willy, 3,444,827.
Seewer, Gustave A.: *See—*
Schrauf, Karl, 3,473,488.
Segal, Charles L.: *See—*
Faurote, Philip D.; and Segal, Charles L.,3,440,217.

Segal, Charles L.; and Faurote, Philip D., to North American Rockwell Corporation. Copolymers of alkenyl phenol. 3,422,062, 1-14-69, Cl. 260-47.
Segal, Herbert A., to Samson Plastics, Inc. Platter cover. 3,429,369, 2-25-69, Cl. 165-47.
Segal, Herbert A., to Samson Plastics, Inc. Platter cover. 3,470,944, 10-7-69, Cl. 165-47.
Segal, Herbert A., to Samson Plastics, Inc. Urinal. 3,471,869, 10-14-69, Cl. 4-110.
Segal, Herbert A., to Samson Plastics, Inc. Excrement receptacles. 3,471,870, 10-14-69, Cl. 4-112.
Segal Products Co., Inc.: *See—*
Salvesen, William R., 3,486,511.
Segall, Jeane; and Shorr, Leonad M., to American Metal Climax, Inc. Water removal from water-containing media. 3,441,501, 4-29-69, Cl. 210-23.
Segall, Louis H.; and Linkroum, Irving E., to Bendix Corporation, The. Electrical pulse generating apparatus. 3,443,152, 5-6-69, Cl. 315-209.
Segall, Louis H.; and Linkroum, Irving E., to Bendix Corporation, The. Electrical pulse generating system. 3,450,942, 6-17-69, Cl. 315-209.
Segar, Thomas W.; and Go, Ting Sin, to St. Paul Ammonia Products, Inc. Production of potassium nitrate from calcium nitrate. 3,433,584, 3-18-69, Cl. 23-102.
Segarceanu, Tudor; Cornea, Andrei; and Mercea, Viorica. Process for obtaining indium and tin from raw lead. 3,462,352, 8-19-69, Cl. 204-105.
Segarra, Edwin: *See—*
Sheldon, Edward J.; Mangiapane, Rosario; and Segarra, Edwin,3,484,785.
Segawa, Hiroyuji: *See—*
Matsubayashi, Kanji; and Segawa, Hiroyuji,3,476,850.
Segawa, Hiroyuki: *See—*
Matsubayashi, Kanji; and Segawa, Hiroyuki,3,428,598.
Segel, Edward; and Glenister, Paul R., to Siebel, J. E., Sons, Company, Inc. Arabinogalactan as an improver of beer foam adhesion. 3,443,957, 5-13-69, Cl. 99-48.
Segel, Joseph M., to Franklin Mint, Inc., The. Method and article for packaging objects. 3,478,870, 11-18-69, Cl. 206-46.
Segel, Joseph M.; and Hales, William E., to General Numismatics Corporation. Ornamental coin holder. 3,448,850, 6-10-69, Cl. 206-0.8
Seger, Ben J. Modular sign combination. 3,471,959, 10-14-69, Cl. 40-152.
Seger, Charles C.; and Emmons, Floyd R., to United Aircraft Corporation. Aircraft pressurization outflow valve. 3,436,039, 4-1-69, Cl. 244-129.
Seger, Richard J.: *See—*
Lambert, William H., Jr.; and Seger, Richard J.,3,469,261.
Segerson, Eugene E., to Motorola, Inc. Plastic encapsulated semiconductor assemblies. 3,423,516, 1-21-69, Cl. 174-52.
Segesman, Louis E., to Hoover Company, The. Housing and air-water separator assembly for floor treating machines. 3,426,381, 2-11-69, Cl. 15-353.
Segesman, Louis E. Liquid container latch and mounting arrangement for floor treating machines. 3,483,861, 12-16-69, Cl. 15-320.
Seggebruch, Ernie G., to Ametek, Inc. Plural, inverted, cup-shaped filter elements. 3,443,697, 5-13-69, Cl. 210-344.
Seghetti, Leland L., to Pet Incorporated. High side defrost and head pressure controls for refrigeration systems. 3,427,819, 2-18-69, Cl. 62-196.
Seghezzi, Hans-Dieter: *See—*
Rangger, Herbert; Seghezzi, Hans-Dieter; and Batliner, Elmar,3,472,440.
Segil, Arthur W.; and White, Richard N. Baffle support for suspended ceiling construction. 3,450,871, 6-17-69, Cl. 240-9.
Segil, Arthur W.; and White, Richard N., to Luminous Ceilings, Inc. Suspended ceiling construction with interconnected baffles and wireways. 3,471,981, 10-14-69, Cl. 52-220.
Seglem, Henry M.; and Wimpress, John K., to Boeing Company, The. Continuous slot forming leading edge slats for cranked wings. 3,486,720, 12-30-69, Cl. 244-42.
Seglin, Leonard: *See—*
Start, John Francis; Seglin, Leonard; and Franko-Filipasic, Borivoj Richard,3,423,330.
Sego, James T., Jr. Retractable electric burner. 3,440,406, 4-22-69, Cl. 219-444.
Segro, Nicholas R.: *See—*
Beacham, Harry H.; Segro, Nicholas R.; and Thomas, James L.,3,483,158.
Segro, Nicholas R.; and Hall, Eldon L., to FMC Corporation. Soft flowing aminoplast molding compositions. 3,425,970, 2-4-69, Cl. 260-17.3
Segsworth, Robert Sidney, to Ajax Magnethermic Corporation. Polyphase to single phase static frequency multipliers with switching devices responsive to load conditions. 3,436,642, 4-1-69, Cl. 321-7.
Segsworth, Robert Sidney, to Ajax Magnethermic Corporation. Induction heating. 3,478,155, 11-11-69, Cl. 13-26.
Segsworth, Robert Sidney, to Ajax Magnethermic Corporation. Polyphase stirring of molten metal. 3,478,156, 11-11-69, Cl. 13-27.
Seguin, Joseph C.; and Seguin, Ruby. Adjustable footstool. 3,438,675, 4-15-69, Cl. 297-439.
Seguin, Judith Ann: *See—*
Billy, Jean-Marc; and Seguin, Judith Ann,3,448,101.
Seguin, Pierre, to Moulinage et Retorderie de Chavanoz, S.A. Method and apparatus for making a non-woven fabric. 3,422,511, 1-21-69, Cl. 28--001
Seguin, Pierre, to Moulinage et Retorderie de Chavanoz,S.A. Nonextensible multiconductor cable. 3,472,947, 10-14-69, Cl. 174-113.
Seguin, Pierre, to Moulinage et Retorderie de Chavanoz, S.A. Manufacture of a fancy yarn. 3,478,503, 11-18-69, Cl. 57-34.
Seguin, Ruby: *See—*
Seguin, Joseph C.; and Seguin, Ruby,3,438,675.
Segur & Company: *See—*
Segur, Asa B.; and Lindgren, Rodney J., 3,483,591.
Segur, Asa B.; and Lindgren, Rodney J., said Lindgren assor to said Segur, Asa B., d/b/a Segur & Company. Method for de-boning raw poultry meat. 3,483,591, 12-16-69, Cl. 17-46.
Segura, Marnell Albin; and Hunter, Edward Allen, to Esso Research and Engineering Company. Novel lithium silicate compositions and process for producing same. 3,459,500, 8-5-69, Cl. 23-110.
Segura, Marnell A.: *See—*
Ray, Richard Louis; Segura, Marnell A.; and Bryan, John L., Jr.,3,433,775.
Seguy, Pierre Marie Leon: *See—*
Dupeuble, Paul; and Seguy, Pierre Marie Leon,3,484,082.
Sehgal, Surendra N.: *See—*
Kruger, Gunter; Sehgal, Surendra N.; and Vezina, Claude,3,471,530.
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude,3,445,338.
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude,3,471,527.
Sehnalek, Frantisek: *See—*
Holeczy, Julius; Schmiedl, Juraj; and Sehnalek, Frantisek,3,459,415.
Seib, Albert E. Bathtub structure. 3,449,773, 6-17-69, Cl. 4-175.
Seibel, George L.; and Broering, Leo H. National Distillers and Chemical Corporation Process for hydrogenating naphthalene to 1,4- dihydronaphthalene. 3,449,453, 6-10-69, Cl. 260-667.
Seibel, Markus: *See—*
Buchheister, Gerhard; and Seibel, Markus,3,424,735.
Seibert, Chesterfield Franklin; and Verrando, Marcel G., Jr., to Pall Corporation. Adsorbent fractionator with automatic cycle control and process. 3,448,561, 6-10-69, Cl. 55-20.
Seibert, Thomas M., to Teletype Corporation. Method of removing a coating. 3,455,737, 7-15-69, Cl. 134-17.
Seibold, Gerard: *See—*
Breant, Claude; Linares, Hubert; and Seibold, Gerard,3,487,099.
Seibold, Wilhelm: *See—*
Eggers, Gerhard; and Seibold, Wilhelm,3,430,858.
Seibu Gomu Kagaku Kabushiki Kaisha(trade name Seibu Rubber Chemical Co., Ltd.): *See—*
Kumazawa, Michio, 3,443,351.
Seichter, Kenneth R.; and Donaher, Thomas P., to General Dynamics Corporation. Data terminal with priority allocation for input-output devices. 3,456,244, 7-15-69, Cl. 340-172.5
Seid, Donald M.: *See—*
Smith, George; May, Clayton A.; Seid, Donald M.; and Haycock, Ernest W.,3,455,805.
Seid, Eugene: *See—*
Jennings, Alan K.; Cone, Ronald D.; and Seid, Eugene,3,427,556.
Seidel, Arthur H.: *See—*
Romano, Ralph, 3,441,077.
Seidel, Bernhard; Mader, Helmut; Danhauser, Justus; and Bartl, Herbert, to Gevaert-Agfa N.V. Light-sensitive compositions for photomechanical purposes. 3,467,523, 9-16-69, Cl. 96-115.
Seidel, Bernhard: *See—*
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard,3,467,522.
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard,3,480,438.
Maeder, Helmut; and Seidel, Bernhard,3,462,274.
Seidel, Don C.: *See—*
Fitzhugh, Edward F., Jr.; Seidel, Don C.; and Oberg, Fred N.,3,473,920.
Seidel, Ekkehard: *See—*
Pfleiderer, Friedrich; Mertel, Heinz; Hoffmann, Erik; and Seidel, Ekkehard,3,428,753.
Seidel, Harold: *See—*
Cappucci, Joseph D.; and Seidel, Harold,3,452,300.
Cappucci, Joseph D.; and Seidel, Harold,3,452,301.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Hybrid-coupled amplifier. 3,423,688, 1-21-69, Cl. 330-53.

Seidel, Harold, to Bell Telephone Laboratories Incorporated. Phase-coherent band-splitting and recombination network. 3,426,292, 2-4-69, Cl. 330-126.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Vibration sensor. 3,435,260, 3-25-69, Cl. 310-8.3
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Broadband hybrid-coupled circuit. 3,444,475, 5-13-69, Cl. 330-53.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Parametric filter. 3,462,612, 8-19-69, Cl. 307-88.3
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Low frequency oscillator controlled by the difference frequency of two crystals. 3,462,703, 8-19-69, Cl. 331-37.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Feed-forward amplifier. 3,471,798, 10-7-69, Cl. 330-149.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Mode control in high power laser by means of a low power laser. 3,479,602, 11-18-69, Cl. 331-94.5
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Mode control in high power laser by means of a low power laser. 3,479,612, 11-18-69, Cl. 331-94.5
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Frequency and amplitude stabilized signal sources using feed-forward techniques to cancel error components. 3,486,134, 12-23-69, Cl. 332-19.
Seidel, Joseph; and Mendelsohn, Morris A., to Westinghouse Electric Corporation. Bonding method of laminated structures with glass. 3,483,052, 12-9-69, Cl. 156-89.
Seidel, Karl: *See*—
Groos, Horst Hans; Linders, Karl; and Seidel, Karl,3,440,854.
Seidel, Luther L. Cutting apparatus. 3,481,378, 12-2-69, Cl. 146-81.
Seidel, Thomas E., to Bell Telephone Laboratories, Incorporated. Impact avalanche transit time diodes with heterojunction structure. 3,466,512, 9-9-69, Cl. 317-235.
Seidel, Wilber R.: *See*—
Klima, Edward F.; Seidel, Wilber R.; DeGrove, William; and Hightower, Frank J.,3,483,649.
Seidel, William C.: *See*—
Mitchell, William A.; and Seidel, William C.,3,480,444.
Seiden, Myron A., to Ford Motor Company. Carburetor fuel supply system. 3,472,494, 10-14-69, Cl. 261-69.
Seiden, Paul, to Procter & Gamble Company, The. Catalytic hydrogenation of oils for edible products. 3,459,777, 8-5-69, Cl. 260-409.
Seidenberg, Jacques. Retaining structures placed into the ground and their procedures of execution. 3,468,131, 9-23-69, Cl. 61-35.
Seidenberg, Richard L.: *See*—
Rosenberger, Harold E.; and Seidenberg, Richard L.,3,456,998.
Seidensticker, W. J., Company, The: *See*—
Rudiger, John, 3,472,475.
Seider, Gene J.; and Hanning, David L., to Mid-Continent Manufacturing Co. Controlled capacitor-discharge gas turbine ignition system. 3,424,945, 1-28-69, Cl. 315-240.
Seiderman, Abe. Detachable mount for telescopic gun sights. 3,424,420, 1-28-69, Cl. 248-229.
Seiderman, Maurice, to Stone, William, Jr. Apparatus for receiving and removing droppings from caged animals. 3,464,389, 9-2-69, Cl. 119-22.
Seidl, Alois: *See*—
Kraemer, Stefan; Seidl, Alois; Mayer, Richard; and Streibl, Ludwig,3,473,904.
Seidl, Gunther: *See*—
Bohn, Hans-Joachim; and Seidl, Gunther,3,470,233.
Seidler, David. Lipstick container with self contained closure. 3,445,171, 5-20-69, Cl. 401-59.
Seidler, Migdonio. Gravel stop construction. 3,469,357, 9-30-69, Cl. 52-94.
Seidlitz, Raymond R., to Teletype Corporation. Electromagnetic actuator having a pair of electromagnets with an armature movable between them. 3,452,253, 6-24-69, Cl. 317-155.
Seidman, Irving: *See*—
Berezov, George, 3,471,684.
Seidman, Jack, to Heart-O-Gold Corporation. Promotional card. 3,455,575, 7-15-69, Cl. 283-6.
Seifert, Arthur. Convertible rail-highway vehicle. 3,434,432, 3-25-69, Cl. 105-215.
Seifert, Friedrich: *See*—
Rombusch, Konrad; and Seifert, Friedrich,3,435,021.
Rombusch, Konrad; and Seifert, Friedrich,3,438,955.
Seifert, Gerd W. Thermostatic clutches for fans. 3,465,861, 9-9-69, Cl. 192-82.
Seifert, Horst: *See*—
Schmidt, Wolfgang; and Seifert, Horst,3,450,927.
Seifert, Larry A.: *See*—
Ehrler, Clelan G.; and Seifert, Larry A.,3,440,726.
Seifert, Lester H. Quickly detachable loader. 3,460,690, 8-12-69, Cl. 214-140.
Seifert, Paul; and Chen, Lung Pao, to Inventa A.G. fur Forschung und Patentverwertung. Fluidized bed for the granulation of fertilizers. 3,475,132, 10-28-69, Cl. 23-259.1
Seifert, Richard, to Maybach Mercedes-Benz Motorenbau G.m.b.H. Liquid-cooled cylinder head for internal combustion engines. 3,420,215, 1-7-69, Cl. 123-32.
Seifert, Robert F. Kitchen hand tool or implement. 3,427,636, 2-11-69, Cl. 15-105.
Seiferth, Heinz, to VEB Carl Zeiss Jena. Adjustable slit control for spectroscopic apparatus. 3,457,004, 7-22-69, Cl. 350-271.
Seiferth, Oscar E.; and Austin, Glenn M., to Mayer, Oscar, Co., Inc. Method and apparatus for making a clip and seal package. 3,432,980, 3-18-69, Cl. 53-14.
Seiferth, Oscar E.: *See*—
Gifford, Maurice J.; and Seiferth, Oscar E.,3,438,788.
Seifried, Walter: *See*—
Braunisch, Herbert; Lenhart, Helga; and Seifried, Walter,3,434,916.
Fitz, Herbert; and Seifried, Walter,3,423,370.
Klenk, Ludwig; and Seifried, Walter,3,423,493.
Klenk, Ludwig; Seifried, Walter; and Strutzel, Hans,3,486,196.
Porrmann, Herbert; Seifried, Walter; and Meyreis, Hans-Werner,3,473,957.
Seigel, Seymour; and Shaffer, Edwin S., to General Motors Corporation. Adjusting screw retaining means. 3,425,672, 2-4-69, Cl. 261-23.
Seiger, Harvey N.; and Dagnall, Robert J., to Gulton Industries, Inc. Method of detecting nerve gases. 3,451,901, 6-24-69, Cl. 204-1.
Seigneur, Remy: *See*—
Hetzel, Max; and Seigneur, Remy,3,466,475.
Seikagaku Kogyo Co., Ltd.: *See*—
Nagasawa, Kinzo, 3,454,560.
Seiki Kogyo Kabushiki Kaisha: *See*—
Murakami, Kanao; and Seiki Kogyo Kabushiki Kaisha,3,422,755.
Seil, Kenneth F.; and Swift, Paul F., to Eastman Kodak Company. Thermographic copying apparatus for making a predetermined number of copies. 3,437,806, 4-8-69, Cl. 250-65.
Seiler, Bernhard, 1/2 to Hartmann, Emil. Container forming method and apparatus. 3,459,841, 8-5-69, Cl. 264-40.
Seiler, Bernhard, of 1/2 to Hartmann, Emil. Container. 3,478,912, 11-18-69, Cl. 215-31.
Seiler, Gunter: *See*—
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef,3,484,789.
Seiler, Wolfgang, to Maschinenfabrik Oskar Schleicher. Double-lift, open-shed jacquard loom. 3,455,339, 7-15-69, Cl. 139-59.
Seiling, Don. Utility holding device. 3,426,911, 2-11-69, Cl. 211-13.
Seilly, Alec Harry, to C.A.V. Limited. Control circuits for electric starting mechanism. 3,469,106, 9-23-69, Cl. 290-38.
Seilon, Inc.: *See*—
Leedy, Arthur A.; Pope, John T.; and Zimmerman, Harry M., 3,426,421.
Seino, Hideki: *See*—
Yamauchi, Saburo; Taura, Teruchika; Isogai, Yuzuru; and Seino, Hideki,3,469,372.
Seip, Hermann, to Dunlop Company, Limited, The. Dual circuit disc brake with hydraulic adjusting means therefor. 3,478,848, 11-18-69, Cl. 188-152.
Seip, Paulus Johannes: *See*—
Eichler, Friedrich; Seip, Paulus Johannes; and Czedik-Eysenberg, Peter,3,423,442.
Seip, Paulus Johannes, to Lever Brothers Company. Process for improving fats. 3,454,608, 7-8-69, Cl. 260-425.
Seipel, John J.: *See*—
Rolland, Grey F.; and Seipel, John J.,3,442,671.
Seipos, Andrew G., to Wollard Aircraft Equipment, Inc., mesne. Extensible and swingable conveyance loader. 3,462,784, 8-26-69, Cl. 14-71.
Seipos, Andrew G., to Wollard Aircraft Equipment, Inc., mesne. Conveyance loader. 3,462,785, 8-26-69, Cl. 14-71.
Seipos, Andrew G., to Wollard Aircraft Equipment, Inc., mesne. Swingable and elevatable conveyance loader system. 3,462,787, 8-26-69, Cl. 14-71.
Seipt, Willard R.: *See*—
Jackson, Joseph C.; and Seipt, Willard R.,3,427,374.
Jackson, Joseph C.; and Seipt, Willard R.,3,428,721.
Seismograph Service Corporation: *See*—
Evans, Bert Leroy, 3,424,376.
Lerwill, William E.; and Anstey, Nigel Allister, 3,459,930.
Lerwill, William Edward; and Anstey, Nigel Allister, 3,459,928.
Lerwill, William Edward; and Anstey, Nigel Allister, 3,459,929.
Lerwill, William Edward; and Anstey, Nigel Allister, 3,459,931.
Lerwill, William Edward; Caroussos, Panayotis; and Anstey, Nigel Allister, 3,460,095.
Seispower Corporation: *See*—
Walker, Garland H.; and Ballard, Carlos E., 3,475,236.
Seiss, William F.: *See*—
Doyle, Joseph E.; and Seiss, William F.,3,471,768.
Seiter, Eugene Dwight; and Umberger, Jacob Quentin, to Du Pont de Nemours, E. I., and Company. Photographic color reversal films. 3,424,583, 1-28-69, Cl. 96-74.

Seiter, Gerd: *See—*
Michel, Hartmut; and Seiter, Gerd,3,424,627.
Seiter, Hartmut: *See—*
Sirtl, Erhard; and Seiter, Hartmut,3,476,640.
Seiter, Hartmut; and Zaminer, Christian, to Siemens Aktiengesellschaft. Method for epitaxial precipitation of semiconduc- tor material upon a spinel-type lattice substrate. 3,424,955, 1-28-69, Cl. 317-234.
Seitetsu Kagaku Co., Ltd.: *See—*
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; and Horie, Misato, 3,466,251.
Ito, Teruhiko; Mitsui, Naoshi; Maeda, Seiichiro; and Sawata, Kiyoshi, 3,444,102.
Seitz, Edward Lamonte, Jr.: *See—*
Reider, George Sylvester, Jr.; and Seitz, Edward Lamonte, Jr.,3,428,934.
Seitz, Ernst-Otto; Schafer, Volker; and Schafer, Juergen, to Quarzlampen Gesellschaft mbH. Surgical cold light illuminating apparatus. 3,437,803, 4-8-69, Cl. 240-1.4
Seitz, Russell, 1/3 to Notte, Albert C., Jr. Method for producing yttrium aluminum oxide garnet crystals. 3,431,066, 3-4-69, Cl. 23-20.
Seitz, Russell, 1/3 to Elton Industries, Inc. Method for machining fragile crystals. 3,447,985, 6-3-69, Cl. 156-12.
Seitz, Russell, 1/3 to Elton Industries, Inc., mesne. Laser device employing fluid material for producing high efficiency laser beam. 3,477,037, 11-4-69, Cl. 331-94.5
Seitz-Werke G.m.b.H.: *See—*
Mallrich, Rudolf; and Kolb, Hermann, 3,478,785.
Seitzer, Dieter: *See—*
Kohn, Gerhard; and Seitzer, Dieter,3,445,682.
Seitzer, Dieter, to International Business Machines Corporation. Balancing driver device for magnetic film memory. 3,445,828, 5-20-69, Cl. 340-174.
Seitzer, Dieter; and Luescher, Rolf, to International Business Machines Corporation. Differential amplifier. 3,452,291, 6-24-69, Cl. 330-30.
Seiwatz, Henry; and Groom, Carl M., to United States of America, Atomic Energy Commission. Method utilizing an electron beam for nondestructively measuring the dielectric properties of a sample. 3,448,377, 6-3-69, Cl. 324-54.
Seiwatz, Ruth F., to Zenith Radio Corporation. Solid state acoustic signal translating device with light activated electrode interconnections. 3,446,974, 5-27-69, Cl. 250-211.
Seiwert, David L., to General Electric Company. Mounting of blades in an axial flow compressor. 3,442,442, 5-6-69, Cl. 230-133.
Seiz, Rudolf: *See—*
Zywietz, Walter; Gantke, Franz; Seiz, Rudolf; Lichtenbaumer, Hans-Gunther; and Neeff, Joachim,3,438,211.
Seka, Johann Georg. Apparatus for locking skis. 3,461,696, 8-19-69, Cl. 70-58.
Sekendur, Nafiz. Precision dental attachment. 3,430,344, 3-4-69, Cl. 32-5.
Sekera, George F., Jr., to Harper-Wyman Company. Valve. 3,469,781, 9-30-69, Cl. 236-99.
Seki, Hajime: *See—*
D'Heurle, Francois M.; Esaki, Leo; and Seki, Hajime,3,451,912.
Seki, Hidehiko: *See—*
Sakamoto, Masakatsu; and Seki, Hidehiko,3,449,013.
Seki, Isao: *See—*
Iwai, Issei; Seki, Isao; Minakami, Haruhiko; Kobayashi, Shinsaku; Inada, Satoru; and Kumakura, Seiji,3,471,502.
Seki, Masao: *See—*
Shimizu, Makoto; Seki, Masao; and Nishizaki, Shinji,3,452,968.
Seki, Shigeo; and Kamata, Kazuyuki, to Meiji Seika Kaisha, Ltd. Aminoalkyl pentachlorophenyl ethers. 3,472,896, 10-14-69, Cl. 260-570.7
Seki, Shigeru; and Utsumi, Hiroshi, to Ishizuka Garasu Kabushiki Kaisha. Method of producing metallized ceramic bodies by surface coating of glass during devitrification heat treament. 3,464,806, 9-2-69, Cl. 65-32.
Seki, Toshimasa; and Takeuchi, Makota, to Nihon Denshi Kabushiki Kaisha. Method of field/frequency control during sample exchanges. 3,487,293, 12-30-69, Cl. 324-0.5
Seki, Toshio: *See—*
Kawakami, Yohei; Seki, Toshio; and Uenaka, Shigeyoshi,3,450,668.
Suzuki, Kozaburo; Seki, Toshio; and Kawakami, Yohei,3,433,763.
Seki, Yoshitaka; and Muraki, Takeshi, to Tokyo Shibaura Electric Co., Ltd. Multiple-cathode X-ray triode tube. 3,452,232, 6-24-69, Cl. 313-56.
Sekiguchi, Sadao: *See—*
Matsumoto, Kohjiro; Usami, Hisao; and Sekiguchi, Sadao,3,481,764.
Sekikawa, Yasuhiro; and Tanaka, Ikuo, to Kurita Industrial Co., Ltd. Method of treating organic waste water. 3,444,076, 5-13-69, Cl. 210-6.
Sekimoto, Tadahiro, to Nippon Electric Company, Limited. Selective communication system wherein each information pulse is address coded for trans- mission on a selected idle carrier frequency. 3,428,899, 2-18-69, Cl. 325-38.
Sekimoto, Tadahiro, to Nippon Electric Company Limited. Signal transmission system with redundancy reduction. 3,449,675, 6-10-69, Cl. 325-38.
Sekine, Bunzo: *See—*
Sakurai, Yoshiaki; Ishizawa, Teruo; Ishida, Shuichi; and Sekine, Bunzo,3,449,342.
Sekino, Shigeo, to Osaka Transformer Co., Ltd., The. Wire feed apparatus. 3,480,221, 11-25-69, Cl. 242-54.
Sekisui Kagaku Kogyo Kabushiki Kaisha: *See—*
Iwata, Akira; and Murai, Sadao, 3,470,584.
Sekisui-Suponji-Kogyo Kabushiki Kaisha: *See—*
Ohno, Atsumi, 3,470,276.
Sekiya, Mitsuo: *See—*
Matsushita, Akira; Sakuma, Takashi; and Sekiya, Mitsuo,3,441,916.
Sekmakas, Kazys, to De Soto, Inc. Water-dispersible, heat-hardening interpolymers including monomeric transesters of alkoxy alkylated aminotriazine with unsaturated acid. 3,450,660, 6-17-69, Cl. 260-29.4
Sekmakas, Kazys, to De Soto, Inc. Heat-hardenable condensates of polyalkoxy siloxanes with unsaturated polyesters modified with lipophilic monomer. 3,450,792, 6-17-69, Cl. 260-827.
Sekmakas, Kazys, to De Soto, Inc. Thermosetting coating compositions comprising hydroxy-functional interpolymers. 3,457,324, 7-22-69, Cl. 260-834.
Sekmakas, Kazys, to De Soto, Inc. Thermosetting coatings based on hydroxy copolymer partially condensed with silicon-containing material containing at least 1.2 silicon OH or alkoxy groups in combination with aminoplast resin. 3,468,836, 9-23-69, Cl. 260-33.6
Sekmakas, Kazys; and Gaske, Joseph E., to De Soto, Inc. Modified polyurethane-silicone polymers. 3,450,791, 6-17-69, Cl. 260-826.
Sekmakas, Kazys; and Stancl, Roland F., to De Soto, Inc. Water based copolymer emulsions containing unsaturated esters. 3,470,126, 9-30-69, Cl. 260-29.7
Seko, Maomi; Kakihana, Hidetake; and Kurisu, Kimiko, to Asahi Kasei Kogyo Kabushiki Kaisha, Atomic Fuel Corporation, and Kakihana, Hidetake. Method for separating and enriching isotopes. 3,425,924, 2-4-69, Cl. 204-180.
Sekse, Torkjell: *See—*
Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo,3,483,523.
Sekulich, Stephen A.: *See—*
Walchle, David L.; Hudson, Raymond A.; and Sekulich, Stephen A.,3,443,845.
Sela, Michael; Arnon, Ruth; and Lahav, Miriam, to United States of America, Health, Education and Welfare. Cleavage of human gamma globulin by means of cyanogen bromide. 3,466,368, 9-9-69, Cl. 424-177.
Selas Corporation of America: *See—*
Kitzen, Maurice R., 3,470,263.
Kurzinski, Edward F., 3,446,490.
Morck, Charles W., Jr., 3,438,718.
Selby, Jack H., to Warner & Swasey Company, The. Textile apparatus. 3,440,691, 4-29-69, Cl. 19-267.
Selby, Michael C.: *See—*
Bilous, Orest; Meulemans, Darrell R.; Pecoraro, Raymond P.; and Selby, Michael C.,3,473,093.
Selby, Myron Carl, to United States of America, Commerce. Electrothermic instruments for measuring voltage or current. 3,487,305, 12-30-69, Cl. 324-95.
Selden, Leonard M.: *See—*
Selden, Leonard M.; and Lee, Harold J., 3,485,543.
Selden, Leonard Marvin; and Graves, William F. Protective cover construction. 3,441,656, 4-29-69, Cl. 174-50.
Selden, Leonard M.; and Lee, Harold J., to Selden, Leonard M. File construction. 3,485,543, 12-23-69, Cl. 312-202.
Seldner, Kurt: *See—*
Gogia, Jugal K.; Hinde, William L.; and Seldner, Kurt,3,427,466.
Seleznev, Ivan Vasilievich: *See—*
Svilpe, Karl Yanovich; Luft, Genakh Maxovich; Betiyan, Andris Alfredovich; Milyaev, Viktor Vasilievich; Gurevich, Leib Borukhovich; and Seleznev, Ivan Vasilievich,3,432,790.
Self, Dolty R., to United States of America, Army. Pulse drive shaft. 3,421,671, 1-14-69, Cl. 226-76.
Self, Richard E. Flow control valve. 3,430,658, 3-4-69, Cl. 137-628.
Self, Richard E. High energy loss fluid control. 3,451,404, 6-24-69, Cl. 137-14.
Self, Richard E. High-flow capacity balanced spindle valve. 3,473,783, 10-21-69, Cl. 251-282.
Self-Service Machines, Inc.: *See—*
McCarty, Lee A., 3,421,835.
Selfe, Richard J.: *See—*
Branham, Donald R.; Selfe, Richard J.; and Hester, Ray W., Jr.,3,477,235.
Selfix, Inc.: *See—*
Willits, George W., Jr., 3,425,889.

Selfors, Henry J.: *See—*
Sedlock, Edward J.; Paquette, Charles F.; and Selfors, Henry J.,3,471,727.
Selgin, Paul J., to Automatic Control Devices, Inc. Distance measuring means using light beams. 3,423,592, 1-21-69, Cl. 250-204.
Selgin, Paul J. Null type comparison reflectometer wherein nulling is accomplished by moving the light detector. 3,463,596, 8-26-69, Cl. 356-211.
Selhost, Dale L., to American Air Filter Company, Inc. Filter media support arrangement. 3,438,181, 4-15-69, Cl. 55-354.
Seliger, James M. Differential mechanism. 3,447,396, 6-3-69, Cl. 74-650.
Seligman, Robert B.: *See—*
Hind, John D.; and Seligman, Robert B.,3,420,241.
Hind, John D.; and Seligman, Robert B.,3,435,829.
Seligson, Arnold L.; and Lanier, Robert S. Ionic electro-acoustic transducer. 3,476,887, 11-4-69, Cl. 179-113.
Selin, Terry G., to General Electric Company. Organoacyloxydisilanes. 3,453,303, 7-1-69, Cl. 260-448.2
Selin, Terry G., to General Electric Company. Process for preparing siloxane diolates. 3,453,304, 7-1-69, Cl. 260-448.2
Selin, Terry G., to General Electric Company. Process for preparing siloxanes. 3,453,305, 7-1-69, Cl. 260-448.2
Selin, Terry G., to General Electric Company. Processing for preparing siloxanes. 3,453,306, 7-1-69, Cl. 260-448.2
Selin, Terry G., to General Electric Company. Preparation of trisiloxanes. 3,457,290, 7-22-69, Cl. 260-448.2
Selin, Terry G., to General Electric Company. Preparation and decomposition of disiloxanediol complexes. 3,471,500, 10-7-69, Cl. 260-290.
Selin, Terry G., to General Electric Company. Lithium siloxanolates and linear polysiloxane process. 3,481,965, 12-2-69, Cl. 260-448.2
Selinger, Cyril Sigfried, to Eugene Limited. Hair drier. 3,430,353, 3-4-69, Cl. 34-100.
Selitrennikoff, Wladimir, to Beckman Instruments, Inc. Direct current motor with hollow, low inertia armature and spring-biased bearings. 3,427,483, 2-11-69, Cl. 310-45.
Selke, William A.: *See—*
Sewell, Edgar F.; and Selke, William A.,3,480,847.
Sell, Heinz G., to Westinghouse Electric Corporation. Refractory oxide incandescent lamp. 3,452,231, 6-24-69, Cl. 313-8.
Sellars, Leonard D., to Precision Sheet Metal, Inc. Tube tapering arrangement. 3,444,715, 5-20-69, Cl. 72-84.
Sellberg, Florian: *See—*
Agdur, Nils Bertil; Sellberg, Florian; Boling, Kurt Goran Rafael; and Ohman, Karl Yngve,3,468,006.
Selle, Wilbur A.: *See—*
Jurist, John M., Jr.; and Selle, Wilbur A.,3,477,422.
Sellenslagh, Emiel H. M.; and Van Hoeck, Willy F., to Automatic Electric Laboratories, Inc. Telephone pulse metering system. 3,433,898, 3-18-69, Cl. 179-7.
Seller, Duglas E.; and Rickman, David W., to Monsanto Research Corporation. Controlled potential coulometer. 3,486,998, 12-30-69, Cl. 204-195.
Sellers, Ralph F., to Union Carbide Corporation. Production of aliphatically modified polyglycidyl ethers. 3,445,429, 5-20-69, Cl. 260-47.
Sellers, Robert S.; Nubel, Robert C.; and Fitts, Robert A., to Pfizer, Chas., & Co., Inc. Process for increasing the yield of yeast. 3,461,035, 8-12-69, Cl. 195-83.
Sellet, Lucien, to Diamond Shamrock Corporation. Derivatives of anionic linear copolymers. 3,435,009, 3-25-69, Cl. 260-78.5
Sellet, Lucien, to Diamond Alkali Company. Composition of matter. 3,462,237, 8-19-69, Cl. 8-94.21
Sellet, Lucien, to Diamond Shamrock Corporation. Process for treatment of leather with condensates of aminoplast-sulfonated phenolic compounds. 3,475,113, 10-28-69, Cl. 8-94.24
Sellger, Paul G.: *See—*
Bowman, Warren; Roberts, Dennis M.; and Sellger, Paul G.,3,476,694.
Sellhorn, Kurt: *See—*
Bauer, Fritz; Klatt, Peter; and Sellhorn, Kurt,3,427,377.
Sellin, Jan; and Steijner, Olof, to Battelle Development Corporation, The. Tube furnace provided with filling bodies. 3,431,082, 3-4-69, Cl. 23-277.
Selling, Hendrik Johannes: *See—*
Bok, Cornelis; Selling, Hendrik Johannes; and Van Den Boom, Martinus Adriaan,3,447,310.
Sellinger, Martin S.: *See—*
Currie, Robert B.; Sellinger, Martin S.; and Villaume, Henry F.,3,422,632.
Sellman, Donald L. Fishhook hones. 3,436,870, 4-8-69, Cl. 51-204.
Sellman, Ulf Carl Iwar; and Ericsson, Gunnar Arthur, to AB FLYGMAL Air Target Ltd. Arrangement in an acoustically operating target indicator. 3,476,208, 11-4-69, Cl. 181-0.5
Sello, Stephen B.: *See—*
Oroslan, Andrew; Sello, Stephen B.; and Tesoro, Giuliana C.,3,485,815.
Sellon, Raymond N., Jr.: *See—*
Harbeck, Charles L.; and Sellon, Raymond N., Jr.,3,486,436.
Wendt, David W.; Harbeck, Charles L.; and Sellon, Raymond N., Jr.,3,450,430.
Sellstedt, John H.: *See—*
Wolf, Milton; and Sellstedt, John H.,3,470,168.
Selman, Gordon L., to Johnson Matthey & Company Limited. Bonding of metals or alloys. 3,478,415, 11-18-69, Cl. 29-497.5
Selman, Hugh L.: *See—*
Wilkinson, George C., Jr.; and Selman, Hugh L.,3,464,019.
Selman, Jan: *See—*
Waterman, Jacques A.; and Selman, Jan,3,465,067.
Waterman, Jacques A.; and Selman, Jan,3,483,275.
Selman, Raymond Frank William: *See—*
Priestley, Philip Thorpe; Sebborn, Walter Sidney; and Selman, Raymond Frank William,3,436,190.
Selman, Stanley, to Du Pont de Nemours, E. I., and Company. Perfluoro-4-oxo-2,5-dimethyl-2-fluorocarbonyl-1,3- dioxolane. 3,450,716, 6-17-69, Cl. 260-340.2
Selman, Stanley, to Du Pont de Nemours, E. I., and Company. Method for making perfluoropyruvic acid mono-hydrate. 3,467,702, 9-16-69, Cl. 260-539.
Selman, Stanley, to Du Pont de Nemours, E. I., and Company. Perfluoro-2,4-dimethyl-2-fluorocarbonyl-1,3- dioxolane. 3,475,456, 10-28-69, Cl. 260-340.9
Selman, Stanley; and Squire, Edward N., to Du Pont de Nemours, E. I., and Company. Polymers of difluoroketene dialkyl acetals. 3,480,603, 11-25-69, Cl. 260-87.5
Selmeczi, Joseph G., to Ionics, Incorporated, mesne. Treatment of water. 3,420,773, 1-7-69, Cl. 210-28.
Selmeczi, Joseph G.: *See—*
Morgan, Alonzo W., Jr.; and Selmeczi, Joseph G.,3,476,600.
Selmer, Henri, et Cie: *See—*
Selmer, Jean, 3,457,357.
Selmer, Jean, to Selmer, Henri, et Cie. Sound amplification device for wind instruments. 3,457,357, 7-22-69, Cl. 84-1.04
Selover, Edward: *See—*
Loeb, Sidney; Wasilewski, Stanley; Selover, Edward; and Balla, Andre,3,446,359.
Selover, Theodore B., Jr.; and Benak, James L., to Standard Oil Company, The (Ohio). Battery seal. 3,472,701, 10-14-69, Cl. 136-168.
Sels, Francis Jeanne; Willems, Jozef Frans; Vrancken, Marcel Nicolas; and Willems, Jozef Frans, to Gevaert-Agfa N.V. 2-Dioxolanones (carboxcyclic acid esters) protein hardeners. 3,462,273, 8-19-69, Cl. 96-111.
Sels, Robert L., to Western Electric Company, Incorporated. Apparatus for applying forward current and inverse peak voltages to bridge rectifiers. 3,437,930, 4-8-69, Cl. 324-158.
Sels, Robert L., to Western Electric Company, Incorporated. System for and a method of implementing a three variable logic function. 3,461,311, 8-12-69, Cl. 307-211.
Sels, Robert L., to Western Electric Company, Incorporated. Ratiometer system utilizing phase comparison techniques. 3,466,552, 9-9-69, Cl. 328-147.
Sels, Victor Richard: *See—*
Middleditch, Stanley William; and Sels, Victor Richard,3,420,149.
Selsam, Roger L.; and Utterback, Max G., to General Dynamics Corporation. Hydroacoustic amplifier. 3,461,910, 8-19-69, Cl. 137-624.15
Seltzer, Robert E., to American Baler Company, The. Relief valve. 3,467,000, 9-16-69, Cl. 100-43.
Selves, Gerald Ernest: *See—*
Brown, Thomas Theodore; Mullin, Leslie Raeburn; and Selves, Gerald Ernest,3,487,367.
Selwa, Tadeusz Ryszard, to Imperial Chemical Industries Limited. Method of sequentially adjusting the anodes in a mercury-cathode cell. 3,476,660, 11-4-69, Cl. 204-128.
Selway, Jack J., to Chemical Construction Corporation. Combined blast furnace scrubber and dust catcher. 3,456,928, 7-22-69, Cl. 261-22.
Selwood, Alan: *See—*
Cannon, Cyril G.; Davies, Barrie L.; Selwood, Alan; and Williams, Roy A.,3,468,117.
Cannon, Cyril G.; Selwood, Alan; Davies, Barrie L.; and Williams, Roy A.,3,486,318.
Davies, Barrie Linton; and Selwood, Alan,3,423,266.
Davies, Barrie Linton; and Selwood, Alan,3,481,558.
Selz, Edgar, to Witco Chemical Company, Inc. Toxicant concentrates containing acetonitrile and emulsifiers. 3,424,847, 1-28-69, Cl. 424-304.
Selz, Jacques, to CIT-Compagnie Industrielle Des Telecommunications. Telecommunications amplification center. 3,462,558, 8-19-69, Cl. 179-98.
Selzer, Robert J., to International Harvester Company. Flexible vehicle axle suspension assembly. 3,473,797, 10-21-69, Cl. 267-57.1
Sem, Bjarne. Apparatus for conveying granular or viscous material by means of compressed air. 3,482,882, 12-9-69, Cl. 302-53.
Semanchik, Robert J., to USM Corporation. Eye-pin fasteners. 3,455,199, 7-15-69, Cl. 85-10.

Semancik, John R.: *See—*
McCain, George H.; Semancik, John R.; and Dietrich, Joseph J.,3,475,396.
Seme, Frank J., to Seeburg Corporation, The. Slide control arrangement. 3,433,114, 3-18-69, Cl. 84-394.
Semegran, Theodore S.; and Trubiano, Paul C., to National Starch and Chemical Corporation. Adhesive lamination of cellulosic substrates. 3,477,903, 11-11-69, Cl. 161-266.
Semeyns de Vries Van Doesburgh, Johan T.; and Verbrugge, Henny, to Stamicarbon N.V.Preparation of α-nitro-τ-lactams. 3,448,103, 6-3-69, Cl. 260-239.
Semi-Elements, Inc.: *See—*
Fisher, Joseph V., 3,480,552.
Semikron Gesellschaft fur Gleichrichterbau und Elektronik m.b.H.: *See—*
Lutz, Edgar, 3,435,305.
Lutz, Edgar; Haserer, Johann; and Pohlau, Claus, 3,462,829.
Lutz, Edgar, 3,474,303.
Semle, Hans: *See—*
Roos, Heinz; and Semle, Hans,3,445,783.
Semmel, John W., Jr.: *See—*
Frank, Robert G.; and Semmel, John W., Jr.,3,433,631.
Semmelman, John O.: *See—*
Halpern, Benjamin David; and Semmelman, John O.,3,423,828.
Halpern, Benjamin David; and Semmelman, John O.,3,423,829.
Halpern, Benjamin David; and Semmelman, John O.,3,423,830.
Semmelman, John O., to Dentists' Supply Company of New York, The. Composite artificial tooth. 3,423,831, 1-28-69, Cl. 32-8.
Semon, Albert L. Lock stem valves. 3,475,005, 10-28-69, Cl. 251-111.
Semon, Georges: *See—*
Pfau, Jean; Rhyner, Heinz; and Semon, Georges,3,454,737.
Semonin, Emmet V., to Goodyear Tire & Rubber Company, The. Pneumatic tire. 3,467,159, 9-16-69, Cl. 152-209.
Semperit Osterreichisch-Amerikanische: *See—*
Wollmann, Ernest; and Morgenbesser, Wilhelm, 3,426,443.
Sempert, Robert E.; and Harris, Robert R., to Sherwin-Williams Company, The. Melamine-formaldehyde phosphate ether polyol resins useful for coating compositions, process for their preparation and coating compositin containing. 3,440,201, 4-22-69, Cl. 260-31.2
Semrai, Edward D.: *See—*
Urba, Richard J.; and Semrai, Edward D.,3,454,841.
Semroc, Charles V., to P.P.G. Industries, Inc. Alkyd resin-aminoplast resin coating composition for glass. 3,425,974, 2-4-69, Cl. 260-21.
Senatore, Peter J., to Pfizer, Chas., & Co., Inc. Catalytic production of Grignard reagents. 3,449,451, 6-10-69, Cl. 260-665.
Senco Products, Incorporated: *See—*
Becht, Carl T., 3,477,629.
Becht, Carl T., 3,478,872.
Becht, Carl T., 3,481,459.
Sencore, Inc.: *See—*
Baum, Robert E., 3,430,067.
Senda, Kazuo: *See—*
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru,3,437,620.
Senda, Shigeo; Fujimura, Hajime; and Izumi, Hiroshi, to Takeda Chemical Industries Ltd. Barbituric acid derivatives and a process for. 3,430,258, 2-25-69, Cl. 260-257.
Sendelbach, Ralph E., to Ford Motor Company. Air cleaner air inlet construction. 3,450,119, 6-17-69, Cl. 123-122.
Sendelbach, Ralph E.: *See—*
Kline, Leroy F.; and Sendelbach, Ralph E.,3,486,312.
Sendelweck, Gene Karl, to Radio Corporation of America. Convergence apparatus for nullifying unwanted induced deflection currents. 3,435,276, 3-25-69, Cl. 315-13.
Sender, David S.: *See—*
Corbin, Barney G.; Sender, David S.; and Lawrence, Beverlee,3,474,788.
Sender, Wilfried Erwin. Prefabricated stairs. 3,466,820, 9-16-69, Cl. 52-188.
Senderoff, Seymour: *See—*
Mellors, Geoffrey W.; and Senderoff, Seymour,3,444,058.
Sendoykas, Jack J. Clamp. 3,482,830, 12-9-69, Cl. 269-32.
Senentz, Irwin M., Jr.: *See—*
Notley, Norman T.; and Senentz, Irwin M., Jr.,3,457,071.
Seney, John Seymour, du Pont de Nemours, E. I., and Company. Calorimetric yarn deniering apparatus. 3,430,488, 3-4-69, Cl. 73-160.
Seney, John Seymour, to Du Pont de Nemours, E. I., and Company. Overload detection and indication. 3,482,236, 12-2-69, Cl. 340-248.
Seney, John Seymour, to Du Pont de Nemours, E. I., and Company. Transducer. 3,486,047, 12-23-69, Cl. 310-8.6
Senez, Claude Jean Michel, to Ugine Kuhlmann, mesne. Process for flameproofing and waterproofing textile materials. 3,437,518, 4-8-69, Cl. 117-137.
Senez, Claude Jean Michel, to Ugine Kuhlmann. Process for flameproofing, waterproofing and oil- proofing textile materials. 3,441,433, 4-29-69, Cl. 117-137.
Senf, George A., to Sprague Electric Company. Delay line. 3,439,293, 4-15-69, Cl. 333-29.
Senf, Oaklan R., to Continental Motors Corporation. Hydraulic throttle advance. 3,459,131, 8-5-69, Cl. 103-17.
Senf, Oaklan R., to Continental Motors Corporation. Hydraulic governor for internal combustion engines. 3,468,223, 9-23-69, Cl. 91-458.
Senftle, Frank E.; Hoyte, Alfred F.; and Martinez, Prudencio, Jr., to United States of America, Interior. Mineral ore exploration apparatus utilizing neutron activation. 3,463,922, 8-26-69, Cl. 250-83.3
Seng, Edward J., to Bell Telephone Laboratories, Incorporated. Method of fabricating integrated circuits by controlled process. 3,440,715, 4-29-69, Cl. 29-574.
Seng, Paul J., to Strick Corporation. Adapter frame with twist locks for removable attachment to a cargo container. 3,438,671, 4-15-69, Cl. 296-35.
Senger, Egon. Hydraulic hoist for motor vehicles. 3,432,006, 3-11-69, Cl. 187-8.72
Senick, John. Crab cracking and cutting device. 3,486,188, 12-30-69, Cl. 17-71.
Senior, Kenneth, to Vacuumatic Limited. Apparatus for counting sheets while maintaining them in a stack. 3,436,529, 4-1-69, Cl. 235-92.
Senior Products Limited: *See—*
Bryan, Geoffrey J., 3,443,491.
Senior, Robert, to Empire Products, Inc. Recessed contact electrical connector. 3,482,205, 12-2-69, Cl. 339-189.
Senkbeil, Herman O.: *See—*
Tolkmith, Henry; and Senkbeil, Herman O.,3,450,713.
Senkewich, Alexander M., 5% to Kingston, Marjorie, and 5% to Heilman, Linda. Windshield wiper, defroster and washer. 3,447,186, 6-3-69, Cl. 15-250.04
Senn, Charles A., III; and Parker, Levi C., to Texaco Inc. Manufacture of n-mono-olefin from n-paraffins. 3,458,592, 7-29-69, Cl. 260-683.3
Senn, Charles A., III; and Parker, Levi C., to Texaco Inc. Manufacture of n-alkene from n-alkane. 3,458,593, 7-29-69, Cl. 260-683.3
Senn, Charles M.; and Cecil, Owen S., Jr., to Mesta Machine Company. Changing bench for flash welder dies and the like. 3,430,786, 3-4-69, Cl. 214-16.4
Senn, Charles M.; and Cecil, Owen S., Jr., to Mesta Machine Company. Side-shifting, strip-welding apparatus. 3,465,118, 9-2-69, Cl. 219-101.
Senn, Charles M.; and Cecil, Owen S., Jr., to Mesta Machine Company. Flash strip welder. 3,469,064, 9-23-69, Cl. 219-101.
Senn, Charles. Mesh welder. 3,463,895, 8-26-69, Cl. 219-56.
Senn, Otto: *See—*
Mueller, Curt; and Senn, Otto,3,420,813.
Senn, Rudolph G., to Fischer, George Limited. Unwinding device for filling furnishing mechanism. 3,470,922, 10-7-69, Cl. 139-122.
Sennett, Paul S.; Turner, Kenneth Lamar; and Morris, Horton Harold, to Freeport Sulphur Company. Process for obtaining a size reduction of non- lamellar materials. 3,476,576, 11-4-69, Cl. 106-309.
Sennett, Paul; and Olivier, James P., to Freeport Sulphur Company. Pocess for treating clay. 3,446,348, 5-27-69, Cl. 209-5.
Sennewald, Kurt: *See—*
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut,3,435,083.
Baader, Herbert; Sennewald, Kurt; and Reis, Helmut,3,445,359.
Sennewald, Kurt; Erpenbach, Heinz; Rehberg, Heinrich; and Viertel, Gunter, to Knapsack Aktiengesellschaft. Process for the manufacture of alkane epoxides. 3,476,776, 11-4-69, Cl. 260-348.5
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; and Joest, Herbert, to Knapsack Aktiengesellschaft. Process for removing formic acid from mixtures rich in acetic acid. 3,432,544, 3-11-69, Cl. 260-499.
Sennewald, Kurt; and Rehberg, Heinrich, to Knapsack Aktiengesellschaft. Process for the simultaneous manufacture of aliphatic hydroxycarboxylic acid lactones and of aliphatic or aromatic carboxylic acids. 3,483,222, 12-9-69, Cl. 260-343.
Sennewald, Kurt; Rehberg, Heinrich; and Lenz, Gunter, to Knapsack Aktiengesellschaft. Process for stabilizing solutions of aliphatic percarboxylic acids. 3,442,937, 5-6-69, Cl. 260-502.
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert, to Knapsack Aktiengesellschaft. Process for the manufacture of trans-2-chlorobutene-(2). 3,465,053, 9-2-69, Cl. 260-654.
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert, to Knapsack Aktiengesellschaft. Process for the manufacture of 2,2-dichlorobutane. 3,465,054, 9-2-69, Cl. 260-663.
Sennewald, Kurt; Vogt, Wilhelm; and Glaser, Hermann, to Knapsack Aktiengesellschaft. Process for the manufacture of vinyl acetate. 3,441,601, 4-29-69, Cl. 260-497.
Sennheiser Electronic: *See—*
Griese, Hans-Joachim, 3,422,225.
Hoffmann, Otto, 3,444,955.
Warning, Paul-Friedrich, 3,459,902.

Sennhenn, Emil: *See—*
Bachmann, Horst; Schneider, Hans-Dieter; and Sennhenn, Emil,3,435,136.

Sennhenn, Emil, to Fernseh GmbH. Two-phase servomotor control including means to deenergize the reference winding at null to conserve power. 3,430,117, 2-25-69, Cl. 318-18.

Sennhenn, Emil, to Fernseh G.m.b.H. Method of transmitting television signals. 3,431,351, 3-4-69, Cl. 178-5.2

Sennhenn, Emil, to Fernseh G.m.b.H. Video signal level control circuit. 3,435,359, 3-25-69, Cl. 330-22.

Sennowitz, Kurt H., to Elox Inc., mesne. Electrical discharge machining power supply circuit. 3,439,145, 4-15-69, Cl. 219-69.

Sennowitz, Kurt H., to Elox Corporation. Electrical discharge machining apparatus for multiple electrodes. 3,472,994, 10-14-69, Cl. 219-69.

Sennowitz, Kurt H., to Elox Inc., mesne. Electrical discharge machining power supply circuit. 3,485,988, 12-23-69, Cl. 219-69.

Sennowitz, Kurt H., to Elox Inc., mesne. Electrical discharge machining power supply circuit. 3,485,989, 12-23-69, Cl. 219-69.

Sennowitz, Kurt H., to Elox Inc., mesne. Electrical discharge machining power supply circuit. 3,485,990, 12-23-69, Cl. 219-69.

Sennowitz, Kurt H. Multiple electrode servo feed control circuit for electrical discharge machining apparatus. 3,485,992, 12-23-69, Cl. 219-69.

Seno, Kenji; Nozawa, Koichi; Tanaka, Nobuyuki; and Kikuchi, Hideyuki, to Fujitsu Limited. Readout control system for perforated tape. 3,431,403, 3-4-69, Cl. 235-61.11

Senoh, Saburo: *See—*
Ouchi, Shunji; Yamada, Hiraku; Kameyama, Naohito; Kurihara, Masakazu; Senoh, Saburo; and Sowa, Tuneo,3,475,409.
Yano, Nobumitsu; Fukushima, Masao; Satou, Terumasa; and Senoh, Saburo,3,457,254.

Senoo, Saburo: *See—*
Ouchi, Shunji; Sowa, Tuneo; Tunoda, Kozo; and Senoo, Saburo,3,464,973.
Sowa, Tuneo; Sato, Kenji; Ouchi, Shunji; Ohsawa, Takeyoshi; and Senoo, Saburo,3,466,273.

Senoue, Toshio: *See—*
Sasaki, Juntaro; Senoue, Toshio; and Tokuzumi, Tadaichi,3,445,443.
Sasaki, Juntaro; Tokuzumi, Tadaichi; and Senoue, Toshio,3,450,682.

Senour, Donald A., to BLH Electronics, Inc. Low frequency damping circuit for strain gage transducers. 3,434,343, 3-25-69, Cl. 73-141.

Sensel, Eugene E.: *See—*
Cole, Edward L.; Knowles, Edwin C.; and Sensel, Eugene E.,3,468,815.

Sensel, Eugene Edward, to Texaco Inc. Method of treating a selective adsorbent. 3,483,137, 12-9-69, Cl. 252-455.

Senseman, Paul S. Illuminating device for vehicles. 3,452,190, 6-24-69, Cl. 240-7.1

Senshu, Hisashi, to Mitsubishi Chemical Industries Limited. Disperse dyestuffs of the aryl-iminazole series. 3,444,172, 5-13-69, Cl. 260-282.

Sensi, Jaoh E., to PPG Industries, Inc. Manufacture of float glass using enclosed bath zones. 3,462,253, 8-19-69, Cl. 65-99.

Sensui, Nobuo; and Honami, Tohei, to Shibaura Kyodo Kogyo Kabushiki Kaisha. Apparatus for oiling continuously moving bodies. 3,459,279, 8-5-69, Cl. 184-15.

Sentementes, Thomas J.; and Pomroy, Carl, to Sylvania Electric Products, Inc. Method of producing decorative incandescent lamps. 3,442,987, 5-6-69, Cl. 264-1.

Sentralinstitutt for Industriell Forskning: *See—*
Eriksen, Odd, 3,474,681.
Onsager, Olav-Torgeir, 3,442,971.

Sentralinstitutt for Industrielle Forskning: *See—*
Tufto, Torleiv, 3,469,174.

Senturk, Necdet, to Burlington Industries, Inc. Traveler for ring spinning and twisting. 3,421,308, 1-14-69, Cl. 57-125.

Senzig, Donald N.: *See—*
Falkoff, Adin D.; and Senzig, Donald N.,3,440,611.

Seo, Kap Min: *See—*
Prazak, Charles J., III; and Seo, Kap Min,3,472,672.

Sepall, Ola, to Anglo Paper Products, Limited. Slurry washing apparatus. 3,469,704, 9-30-69, Cl. 210-401.

Sepall, Ola; Stanners, Leonard N.; and Tremblay, Bruno, to Anglo Paper Products, Limited. Apparatus for producing test sheets from papermaking pulps. 3,483,078, 12-9-69, Cl. 162-252.

Separa, Theodore W. Means for supporting flowers. 3,424,641, 1-28-69, Cl. 161-27.

Separator Engineering Ltd.: *See—*
Dickson, Charles G. M., 3,469,694.

Seperic: *See—*
Laborit, Henri Marie, 3,441,565.

Sephton, Hugo H. Vortex flow film distillation process. 3,423,294, 1-21-69, Cl. 203-10.

Sephton, Hugo H. Evaporation and distillation apparatus. 3,457,982, 7-29-69, Cl. 159-13.

Sepkoski, Joseph J.; Trepa, Robert F.; and Degginger, Edward R., to Allied Chemical Corporation. Rigid, non-elastomeric, non-cellular, fiber reinforced polyether-urethane compositions. 3,464,935, 9-2-69, Cl. 260-9.

S.E.P.M.: *See—*
Marechal, Gilles Adrien Georges, 3,471,817.

Sepp, Oscar W., Jr., to Steinthal, M., & Co., Inc. Preselector for the tonal control elements of an organ. 3,449,995, 6-17-69, Cl. 84-345.

Sepp, Oscar W., to Steinthal, M., & Co., Inc. Deployment bag and method of packing. 3,429,531, 2-25-69, Cl. 244-147.

Sepp, Oscar W., to Steinthal, M., & Co., Inc. Parachute skirt expander. 3,429,532, 2-25-69, Cl. 244-149.

Seppi, Edward J., to United States of America, Atomic Energy Commission. Dielectric-type charged particle detector. 3,450,879, 6-17-69, Cl. 250-83.3

Seppi, Ned F.: *See—*
Norton, Charles J.; and Seppi, Ned F.,3,479,397.
Patton, James W.; and Seppi, Ned F.,3,452,087.

Septier, Albert: *See—*
Gautherin, Guy; and Septier, Albert,3,441,732.

Sepulveda, Ralph Raymond; and Cieri, Frank Vincent, to Lever Brothers Company. Detergent composition containing N-(-2 hydroxyalkyl)-τ-methyltaurine. 3,474,038, 10-21-69, Cl. 252-137.

Sequeira, Avilino, Jr.: *See—*
Morris, Herbert C.; and Sequeira, Avilino, Jr.,3,438,887.

Sequential Electronic Systems, Inc.: *See—*
Marcus, Daniel H., 3,454,777.

Sequential Information Systems, Inc.: *See—*
Schiller, Michael S., 3,462,663.

Ser, Filip; Milosevic, Milan; and Bulatovic, Predrag. Method of concentrating a chromite-containing ore. 3,473,656, 10-21-69, Cl. 209-5.

Serabian, Steven: *See—*
Nute, Philip R.; Serabian, Steven; and Weighart, Frederick,3,427,867.

Serafin, Frank G.: *See—*
Dodson, Vance H.; and Serafin, Frank G.,3,443,976.

Serafin, Frank G., to Grace, W. R., & Co. Aromatic acetates as grinding aids. 3,420,686, 1-7-69, Cl. 106-90.

Serafin, Frank G., to Grace, W. R., & Co. Method of increasing the grinding efficiencies of minerals and cement. 3,420,687, 1-7-69, Cl. 106-102.

Serafin, Frank G., to Grace, W. R., & Co. Mineral grinding aids. 3,442,673, 5-6-69, Cl. 106-90.

Serafin, Frank G., to Grace, W. R., & Co. Vinyl acetate grinding aid. 3,443,975, 5-13-69, Cl. 106-90.

Serafin, Frank G., to Grace, W. R., & Co. Amide grinding aid. 3,459,570, 8-5-69, Cl. 106-90.

Seragnoli, Ariosto. Mechanism for the formation of orderly groups of cigarettes. 3,435,940, 4-1-69, Cl. 198-24.

Seragnoli, Ariosto. Apparatuses for transferring articles. 3,450,246, 6-17-69, Cl. 198-24.

Seragnoli, Ariosto, to Ditta G. D., Societa in Accomandita Semplice die Enzo Seragnoli ed Ariosto Seragnoli. Monitoring device for the presence of cellophane tear strips on cellophane packaging apparatus. 3,455,213, 7-15-69, Cl. 93-1.

Seragnoli, Ariosto. Devices for feed hoppers of cigarette packaging machines. 3,486,647, 12-30-69, Cl. 214-302.

Serametta S.A.: *See—*
Masson, Henri, 3,459,348.

Seratt, Robert H.: *See—*
Pellegrino, Joseph Eugene; and Seratt, Robert H.,3,452,737.

Serbin, Jacob. Dye setting machine. 3,462,977, 8-26-69, Cl. 68-5.

Serbin, Jacob. Seal for fabric treating machine. 3,478,546, 11-18-69, Cl. 68-5.

Serck Industries Limited: *See—*
Floyd, Terence J.; and Warren, Henry Ray, 3,481,214.
Floyd, Terence J., 3,481,253.

Serck R. & D. Limited: *See—*
Montgomerie, George A., 3,445,638.

Seress, George; and Hewitt, Woodrow W., to Parks-Cramer Company. Method of cleaning looms. 3,429,746, 2-25-69, Cl. 134-37.

Serfass, Earl J., to Milton Roy Company. Colorimetric analyzer. 3,440,016, 4-22-69, Cl. 23-253.

Serfass, Earl J., to Roy, Milton, Company. Activated surfaces useful in the production of hydrogen. 3,448,035, 6-3-69, Cl. 204-278.

Serfass, Earl J.; Martin, John E.; and Wilson, William E., Jr., to Milton, Ray, Company. Controlled blood dialysis system. 3,441,136, 4-29-69, Cl. 210-90.

Sergeant, Thomas R., to Scully Signal Corporation. Fluid-level detecting apparatus. 3,461,446, 8-12-69, Cl. 340-244.

Sergent, David A.: *See—*
Kelch, Edward J.; and Sergent, David A.,3,457,899.

Serino, Enrico: *See—*
Gigante, Pietro; Antoniu, Demetrio; Ganzina, Fabrizio; Magi, Mario; and Serino, Enrico,3,467,705.

Serio, Anthony W., deceased0 (by Serio, Dolores M.; executrix). Dispenser. 3,446,403, 5-27-69, Cl. 222-158.

Serio, Anthony W.: *See—*
Morris, William A.; and Serio, Anthony W.,3,474,486.
Serio, Dolores M.: *See—*
Serio, Anthony W.,3,446,403.
Serio, Vincent J., Jr., to Reynolds Metals Company. Spigot construction for a liquid dispensing container or the like. 3,442,486, 5-6-69, Cl. 251-155.
Serio, Vincent J., Jr.; Smith, Gary W.; and Westerlund, Donald R., to Reynolds Metals Company. Siphon tube and method of making the same. 3,469,745, 9-30-69, Cl. 222-399.
Serlin, Irving: *See—*
Lavin, Edward; and Serlin, Irving,3,483,144.
Young, Raymond H., Jr.; Cohen, Saul M.; Markhart, Albert H.; and Serlin, Irving,3,444,129.
Sermon, George T.: *See—*
Corley, William G.; and Sermon, George T.,3,476,677.
Serna, Miguel Fisac, to Hueco, S.A. Floor beam construction utilizing post- stressed beams formed of an assembly of hollow elements. 3,481,091, 12-2-69, Cl. 52-228.
Serniuk, George E., to Esso Research and Engineering Company. Graft polymerization. 3,432,577, 3-11-69, Cl. 260-879.
Serniuk, George E.; and Thomas, Robert M., to Esso Research and Engineering Company. Thermosetting resin compositions and a method of producing same. 3,426,005, 2-4-69, Cl. 260-80.7
Serniuk, Melius. Speed control apparatus. 3,447,400, 6-3-69, Cl. 74-782.
Serota, Rudolph M., to Bangor Punta Operations, Inc. Shielded dielectric heating apparatus. 3,469,054, 9-23-69, Cl. 219-10.61
Serota, Samuel; and Kenney, Harold E., to United States of America, Agriculture. Process for purifying stearic acid. 3,429,902, 2-25-69, Cl. 260-419.
Serper, Ruvin Iosifovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Serpinet, Joseph, to Ugine Kuhlmann. Recovery of selenium catalysts using concentrated aqueous salt solutions. 3,437,453, 4-8-69, Cl. 23-312.
Serra, Jean. Automatic scanning device for analyzing textures. 3,449,586, 6-10-69, Cl. 250-219.
Serracant Selvas, Jose, 1/2 to Raxhon, Ateliers, S.A. Fabric washing and fulling machine. 3,471,908, 10-14-69, Cl. 26-21.
Serracant Selvas, Jose, to Vinas, Maria Teresa Clermont. Machines for the continuous treatment of filiform grouped materials by means of fluids under pressure and or at higher than boiling point temperatures. 3,474,645, 10-28-69, Cl. 68-5.
Serrell, Robert; and Kling, Frederick R., to Educational Testing Service. Teaching machine. 3,484,950, 12-23-69, Cl. 35-9.
Serret, Robert G. C., to Societe anonyme dite Etablissements Bauche (Coffres-forts Bauche et Nicolle et Cie). Method and apparatus for making annular parts of U-section. 3,434,326, 3-25-69, Cl. 72-354.
Serrure, Andre Emile, to International Standard Electric Corporation. Automatic system for preventing the use of erroneous pilot information. 3,470,498, 9-30-69, Cl. 333-2.
Sertich, Michael P.Pivot positioner for a baseball player's rear foot. 3,466,040, 9-9-69, Cl. 273-26.
Servanty, Pierre; and Chaumette, Paul Joseph Adrien, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Flow control device for multi-conduit structures. 3,474,813, 10-28-69, Cl. 137-81.5
Servco Company, The: *See—*
Van Note, Charles O., Jr.; and Cordary, Bruce J., 3,476,415.
Servel (Canada) Limited: *See—*
Musselman, Robert K., 3,437,528.
Service d'Exploitation Industrielle des Tabacs et des Allumettes:*See—*
Arnaudon, Michel; and Richard, Jean, 3,451,318.
Bonneric, Francis, 3,450,311.
Bonneric, Francis, 3,459,057.
Bonneric, Francis, 3,468,459.
Boutron, Roger, 3,438,250.
Dubus, Gerard, 3,450,287.
Flesselles, Jacques; and Poupin, Raymond, 3,470,424.
Godet, Jean, 3,445,986.
Godet, Jean, 3,447,283.
Le Roux, Max, 3,481,508.
Pietrucci, Andre, 3,450,139.
Poupin, Raymond, 3,450,258.
Poupin, Raymond, 3,472,358.
Service Record, Inc.: *See—*
Chaput, Edward R., 3,452,463.
Service Recorder Company, The: *See—*
Cubberley, Harold A.; Abel, Edmund, Jr.; and Sackett, John E., 3,433,255.
Service Steel & Engineering Limited: *See—*
Merrick, John A.; and Hovestad, Adrian P., 3,475,778.
Service(Engineering)Limited: *See—*
Meadows, Frank William; and Dowley, Arthur, 3,435,493.
Servillat, Gabriel, to Societe des Mecaniques Verdol. Double-lift Jacquards operating with reverse selection. 3,480,044, 11-25-69, Cl. 139-59.
Servis Equipment Company: *See—*
West, Hoy E.; and Collins, Johnnie C., 3,470,964.
Servo Corporation of America: *See—*
De Priest, Joseph Roy, 3,426,181.
Gallagher, Cornelius A., 3,454,758.
Richter, Frederick G.; Guerriere, Thomas V.; and Williams, Christian B., 3,460,147.
Servodan A/S: *See—*
Johansen, Knud Harald Storm, 3,480,787.
Servodyne Corporation: *See—*
French, Roger F., 3,458,750.
Servonic Instruments, Inc.: *See—*
Wasser, Robert E., 3,436,451.
Serwer, Arthur, to Cole Steel Equipment Co., Inc. Storage device. 3,446,544, 5-27-69, Cl. 312-111.
Sery, Robert S.; and Gordon, Daniel I., to United States of America, Navy. Method of producing high rectangularity, low coercive force magnetic cores. 3,477,883, 11-11-69, Cl. 148-100.
Sese, Kiyoaki, to Asahi Glass Co., Ltd. Method of manufacturing a magnesia clinker. 3,471,259, 10-7-69, Cl. 23-201.
Sessinghaus, Desmond F.: *See—*
Denton, Eric B.; and Sessinghaus, Desmond F.,3,486,606.
Sessions Clock Co., The: *See—*
Lofstrand, Warren A., 3,476,903.
Sessions, Henry T.: *See—*
Nickell, Lawrence Creigh; Fertig, Raymond Baines; Spence, Harry Robert; and Sessions, Henry T.,3,486,828.
Set Screw & Manufacturing Company: *See—*
Brown, Calvin O., 3,462,163.
Setala, Kai Martin Edvard. Radiation treatment apparatus with transversely gapped table. 3,466,439, 9-9-69, Cl. 250-54.
Setchell, Barton T. Television set and electronic air cleaner. 3,469,031, 9-23-69, Cl. 178-7.9
Setecka, John C. Portable food service device for tables and the like. 3,465,894, 9-9-69, Cl. 211-129.
Setka, Raymond P.: *See—*
Cantalupo, Francis J.; and Setka, Raymond P.,3,482,459.
Seto, David K.: *See—*
Kren, John G.; Regh, Joseph; and Seto, David K.,3,419,956.
Seto, Ichiro; Tanaka, Humikazu; Ishii, Yoshio; Nagae, Yuji; and Kitakata, Setsuo, to Toa Noyaku Kabushiki Kaisha. 2-Halo-3-methylphenyl N-methylcarbamates. 3,449,405, 6-10-69, Cl. 260-479.
Seto, Iwao: *See—*
Kanamori, Koichi; and Seto, Iwao,3,459,306.
Seto, Jingo. Method for cutting-forming of thermoplastic sheets. 3,475,526, 10-28-69, Cl. 264-153.
Seto-Kenneth H., to Polymer Corporation Limited. Solid adhesive polymer compositions. 3,484,405, 12-16-69, Cl. 260-33.6
Settepani, Joseph A.: *See—*
Borkovec, Alexej B.; and Settepani, Joseph A.,3,463,851.
Setterquist, Robert Alton: *See—*
Schweitzer, Carl Earle; and Setterquist, Robert Alton,3,437,640.
Schweitzer, Carl Earle; and Setterquist, Robert Alton,3,477,994.
Settineri, William J.: *See—*
Wessling, Ritchie A.; and Settineri, William J.,3,480,525.
Wessling, Ritchie A.; and Settineri, William J.,3,480,527.
Settino, Frederick A., to PPG Industries, Inc. Float glass take-out roll. 3,443,922, 5-13-69, Cl. 65-193.
Settler, Bert: *See—*
Settler, Morris; and Settler, Bert,3,444,856.
Settler, Morris; and Settler, Bert, to Harco Electronics Ltd. Blood pressure monitor. 3,444,856, 5-20-69, Cl. 128-2.05
Setton, Ralph: *See—*
Devin, Bernard; Lesueur, Robert; and Setton, Ralph,3,454,797.
Settzo, Robert J.: *See—*
Currin, Cedric G.; Herczog, Andrew; and Settzo, Robert J.,3,474,304.
Settzo, Robert J.; and Wise, Warren M., to Corning Glass Works. Liquid organic ion-exchanger electrode with organophilic-hydrophobic membrane. 3,448,032, 6-3-69, Cl. 204-195.
Setz, Henry L., to Ford Motor Company. Vehicle suspension spring. 3,439,931, 4-22-69, Cl. 280-124.
Setzer, Carl J., Jr.: *See—*
Morgan, Herbert S., Jr.; and Setzer, Carl J., Jr.,3,461,468.
Setzer, Herbert J.: *See—*
Buswell, Richard F.; Sederquist, Richard A.; and Setzer, Herbert J.,3,446,594.
Buswell, Richard F.; Setzer, Herbert J.; and Sederquist, Richard A.,3,476,534.
Setzer, Herbert J., to United Aircraft Corporation. Hydrogen generator including a desulfurizer employing a feedback ejector. 3,480,417, 11-25-69, Cl. 48-94.

Setzer, Herbert J.; and Eggen, Alfred C. W., to United Aircraft Corporation. Method for catalytically reforming hydrogen-contain- ing carbonaceous feedstocks by simultaneous abstrac- tions through a membrane selectively permeable to hydrogen. 3,450,500, 6-17-69, Cl. 23-212.

Setzer, Herbert J.; and Whiting, Richard W., to United Aircraft Corporation. Sulfur removal from hydrocarbons. 3,485,746, 12-23-69, Cl. 208-244.

Sederquist, Richard A.; Buswell, Richard F.; and Setzer, Herbert J.,3,450,567.

Setzer, Logan E. Fruit harvester. 3,425,202, 2-4-69, Cl. 56-328.

Setzler, Emil E. Self-adhering index tag assembly, multiple unit thereof, and method of manufacture. 3,444,635, 5-20-69, Cl. 40-2.

Setzler, Paul C., to Heli-Coil Corporation. Preload indicating devices for fasteners. 3,474,701, 10-28-69, Cl. 85-62.

Setzler, William E., Jr., to Argus Chemical Corporation. Continuous process for preparing epoxidized organic compounds which involves more than one reaction zone. 3,458,536, 7-29-69, Cl. 260-348.5

Seufert, John L.: *See—*

Fleming, Gerald S.; Reed, Robert G.; and Seufert, John L.,3,453,620.

Pfaffle, Ernst; and Seufert, John L.,3,452,628.

Seufert, Ludwig Edward, to Du Pont de Nemours, E. I., and Company. Alumina-spinel composite material. 3,437,468, 4-8-69, Cl. 51-298.

Seulen, erhard; Reinke, Friedhelm; Frisch, Karl W.; and Oertel, Fritz, to AEG-Elotherm G.m.b.H. Inductor for surface hardening flanged elongate workpieces. 3,483,346, 12-9-69, Cl. 219-10.43

Seulen, Gerhard; Geisel, Herbert; and Stangl, Ernst, to AEG-Elotherm G.m.b.H. Cross field inductor for heating electrically conducting workpieces. 3,446,930, 5-27-69, Cl. 219-10.69

Seulen, Gerhard; and Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Inductor arrangement for surface hardening flanged shafts. 3,472,990, 10-14-69, Cl. 219-10.79

Seulen, Gerhard; and Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Inductor for surface-hardening rotating shafts. 3,472,991, 10-14-69, Cl. 219-10.79

Seulen, Gerhard; Reinke, Friedhelm; and Kuhlbars, Hermann, to AEG-Elotherm G.m.b.H. Inductive hardening of workpieces of differing lengths. 3,472,988, 10-14-69, Cl. 219-10.57

Seulen, Gerhard; Reinke, Friedhelm; and Stengel, Edgar, to AEG-Elotherm G.m.b.H. Method and apparatus for inductively heating workpieces comprising a flanged shaft. 3,441,701, 4-29-69, Cl. 219-10.43

Seulen, Gerhard; and von Starck, Axel, to AEG-Elotherm G.m.b.H. Apparatus for inductively heating electrically conducting workpieces. 3,437,778, 4-8-69, Cl. 219-10.71

Seunik, Horst; and Veith, Werner, to Siemens Aktiengesellschaft. System for the conversion of microwave energy into electric direct current energy utilizing an electron beam tube. 3,462,636, 8-19-69, Cl. 315-3.

Sevald, William T.: *See—*

Flowers, Edward J.; and Joslin, Theodore E., 3,455,139.

Seven C's, Inc.:*See—*

Stout, Glenn M., 3,487,176.

Stout, Glenn M., 3,487,178.

Seven, Manfred K.; and Bellet, Richard J., to Allied Chemical Corporation. Carboxy terminated graft copolymers of carbonamide group on acrylic copolymers. 3,465,059, 9-2-69, Cl. 260-857.

Sevenco, Alexander Jura, to Lincoln Electric Company, Limited. Electric arc welding apparatus. 3,423,564, 1-21-69, Cl. 219-131.

Sevenco, Alexander Jura, to Lincoln Electric Company Limited. Electric arc welding apparatus. 3,433,924, 3-18-69, Cl. 219-123.

Sevenco, Alexander Jura, to Lincoln Electric Company Limited. Dip transfer welding method and apparatus. 3,459,920, 8-5-69, Cl. 219-131.

Severance, Glen R., to Whirlpool Corporation. Speed control for a laundry machine. 3,446,043, 5-27-69, Cl. 68-12.

Severin, Warren J., to Nugent, William W., & Co. (Inc.). Lubrication system and valve therefor. 3,425,511, 2-4-69, Cl. 184-6.

Severinghaus, John W., to University of California, The Regents of the. pH electrode. 3,424,664, 1-28-69, Cl. 204-195.

Severns, Ray E. Roadblock apparatus. 3,471,130, 10-7-69, Cl. 256-64.

Severns, William H., Jr., to Du Pont de Nemours, E. I., and Company. Process for beneficiating chrome ores. 3,473,916, 10-21-69, Cl. 75-1.

Seversen, Gordon F., to Televiso Electronics, division of Doughloy Industries, Inc. Multi-price vending machine coin operated control. 3,478,855, 11-18-69, Cl. 194-9.

Severson, Nels Arthur; and Bren, Eunice M., to Munsingwear, Inc.Man's undergarment. 3,441,022, 4-29-69, Cl. 128-159.

Sevetz, Edward B.; and Freeman, Leston M., Jr., to United Aircraft Corporation. Turbine vane assembly. 3,443,791, 5-13-69, Cl. 253-39.1

Sevilla, Ernesto G., to Sperry Rand Corporation. Transducer position detector. 3,474,432, 10-21-69, Cl. 340-174.1

Sevin, Leonce J.: *See—*

Abraham, Richard P.; and Sevin, Leonce J.,3,460,106.

Sevin, Leonce J., to Texas Instruments Incorporated. Movie camera iris control device. 3,426,662, 2-11-69, Cl. 95-10.

Sevin, Leonce J., to Texas Instruments, Incorporated. Integrated circuit amplifier utilizing field- effect transistors having parallel reverse connected diodes as bias circuits therefor. 3,434,068, 3-18-69, Cl. 330-19.

Sewall, Loren J.: *See—*

Rentschler, John H.; and Sewall, Loren J.,3,432,083.

Seward, Edgar C. Truck body and container lifting device. 3,486,652, 12-30-69, Cl. 214-515.

Seward, W. Saxton: *See—*

Chilowsky, Constantin,3,421,748.

Sewell, Brian Constantine, to Xerox Corporation. Printing of timing marks in the xerographic process. 3,485,622, 12-23-69, Cl. 96-1.

Sewell, Donald Nelson, to Dielectric Products Engineering Company, Inc. Low RF noise axial compensation connector. 3,432,779, 3-11-69, Cl. 333-97.

Sewell, Edgar F.; and Selke, William A., to Kimberly-Clark Corporation. Dielectric capacitor with impregnated paper between the electrodes, said paper containing cellulosic fibers and amphibolic asbestos. 3,480,847, 11-25-69, Cl. 317-259.

Sewell, Gordon J.: *See—*

Burgess, James F.; and Sewell, Gordon J.,3,485,630.

Gaynor, Joseph; Sewell, Gordon J.; and Metlay, Max,3,434,835.

Sewell, Peter B.: *See—*

Cohen, Morris; and Sewell, Peter B.,3,466,234.

Sewell, Robert A., to Keystone Consolidated Industries, Inc. File drawer lock assembly. 3,436,939, 4-8-69, Cl. 70-81.

Sewell, Robert A., to Keystone Consolidated Industries, Inc. Combination shackle lock. 3,472,049, 10-14-69, Cl. 70-21.

Sewell, Sewood; and Katzer, Melvin F., to Dow Chemical Company, The. Adjustable pressure reducing valve. 3,477,467, 11-11-69, Cl. 137-599.

Sewell, Wesley C., to Honeywell, Inc. Constant current differential amplifier with current sensing and feedback networks. 3,422,366, 1-14-69, Cl. 330-30.

Sewerin, Heinrich. Apparatus for localizing water leakages. 3,458,656, 7-29-69, Cl. 179-1.

Sewtronic Development Corporation: *See—*

Stahl, Wolfgang, 3,473,706.

Sexstone, John H., to Brown & Williamson Tobacco Corporation. Pipe tobacco pouch. 3,471,005, 10-7-69, Cl. 206-41.

Sexstone, John H., to Brown & Williamson Tobacco Corporation. Multiple filter manufacture. 3,482,488, 12-9-69, Cl. 93-1.

Sexstone, John H.; and Hilgartner, George H., Jr., to Brown & Williamson Tobacco Corporation. Bonded filter rod for smoking articles. 3,473,539, 10-21-69, Cl. 131-267.

Sexton, Harvey E., to Bliss, E. W., Company. Air booster for clam-type drum brake. 3,465,850, 9-9-69, Cl. 188-75.

Sexton, Joseph P., Jr., to United States Sugar Corporation. Sugarcane harvesting apparatus. 3,456,429, 7-22-69, Cl. 56-16.

Sexton, Robert W.; and Akers, George J., to American Air Filter Company, Inc. Gas-liquid contact apparatus for gas cleaners. 3,434,700, 3-25-69, Cl. 261-109.

Seyb, Edgar J., Jr.; Chessin, Hyman; and Aoun, Fred, to M & T Chemicals Inc. Method of electroplating chromium and compositions therefor. 3,475,294, 10-28-69, Cl. 204-51.

Seyb, Edgar J., Jr.: *See—*

Chessin, Hyman; Seyb, Edgar J., Jr.; and Smith, Philip J., Jr.,3,464,899.

Mahlstedt, Henry; Dunn, James W.; Couch, Robert W.; and Seyb, Edgar J., Jr.,3,461,048.

Seybert, Robert A.: *See—*

Redemann, Clio Ernst; and Seybert, Robert A.,3,436,959.

Seybold, Frederick W. Transmission gearing for elevators. 3,420,116, 1-7-69, Cl. 74-394.

Seybold, Frederick W. One-half revolution indexing mechanism. 3,482,473, 12-9-69, Cl. 74-822.

Seybolt, Kendall: *See—*

McLean, William M.; and Seybolt, Kendall,3,465,252.

Seyfarth, Bodo: *See—*

Prillwitz, Hans; Mechalke, Klaus; Kossler, Karl-Heinz; and Seyfarth, Bodo,3,459,275.

Seyferth, Dietmar, to Dow Chemical Company, The. Phosphine compounds. 3,426,021, 2-4-69, Cl. 260-246.

Seyfried, Ernst, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Cable gripping drive for suspended cable cars. 3,448,694, 6-10-69, Cl. 105-30.

Seyl, Jack W.; and Martin, Jan W., to United States of America, National Aeronautics and Space Administration. Dynamic doppler simulator. 3,471,858, 10-7-69, Cl. 343-17.7

Seymore, Stephen David, Jr.: *See—*

Von Kaenel, John Clifford; Anderson, Gordon Campbell; and Seymore, Stephen David, Jr.,3,479,699.

Seymour Foods, Inc.: *See—*

Willsey, Charles H.; and Majors, Francis W., 3,461,459.

Seymour, Samuel L., to PPG Industries, Inc. Mold cover for bending glass sheets. 3,420,652, 1-7-69, Cl. 65-287.

Seymour, Shaun A., to Sperry Rand Corporation. Mobilfeeder-wheel arrangement. 3,421,647, 1-14-69, Cl. 214-519.

Sezaki, Juniti; Hattori, Tatsuaki; Ikari, Kyoichiro; and Imoto, Saburo, to Kurashiki Rayon Co., Ltd. Polyvinyl alcohol sizing compositions containing deliquescent compounds and plasticizers. 3,442,848, 5-6-69, Cl. 260-33.4
Sezaki, Kazuo: *See—*
Nakamura, Hajime; Hori, Toshimitsu; and Sezaki, Kazuo,3,429,695.
Sezaki, Nobuhiko; Katagiri, Hiroshi; and Kaneko, Toyohisa, to Matsushita Electric Industrial Co., Ltd. Apparatus for the automatic scanning of line- structured patterns. 3,439,213, 4-15-69, Cl. 315-11.
SFM Corporation: *See—*
Eisengrein, Robert H.; and Blackwell, Francis O., III, 3,437,813.
Eisengrein, Robert H.; Blackwell, Francis O., III; and Golden, Forrest B., 3,441,817.
Miner, William W.; and Johnson, Lynn F., 3,426,673.
Sfondrini, Pierluigi: *See—*
Convalle, Giovanni; and Sfondrini, Pierluigi,3,423,035.
Sfondrini, Pierluigi; and Convalle, Giovanni, to Montecatini Edison, S.p.A. Process for molding hollow, shaped articles of polytetrafluoroethylene. 3,424,830, 1-28-69, Cl. 264-127.
Sganga, Francis Thomas, to St. Regis Paper Company. Mathematical comparison device. 3,465,453, 9-9-69, Cl. 35-34.
Sgorbani, Ero. Device for interrupting the flow of electrical current in motor vehicles. 3,459,954, 8-5-69, Cl. 307-10.
Sgroi, Salvatore. Automatic emergency relevelling device for lifts. 3,469,657, 9-30-69, Cl. 187-29.
Shabaker, Robert H.: *See—*
Bartok, William; and Shabaker, Robert H.,3,431,194.
Shabram, Lyle F. Method and apparatus for bagging articles. 3,448,555, 6-10-69, Cl. 53-29.
Shachter, Moses, to Ford Motor Company. Limited slip geared differential with non- circular gears. 3,473,414, 10-21-69, Cl. 74-710.5
Shachter, Moses, to Ford Motor Company. Differential gear constant velocity joint. 3,477,247, 11-11-69, Cl. 64-21.
Shachter, Moses, to Ford Motor Company. Differential screw constant velocity joint. 3,477,248, 11-11-69, Cl. 64-21.
Shackelford, Charles L., to Wagner Electric Corporation, mesne. Disk contacts and flat annular shield arrangement in gas filled switch. 3,446,927, 5-27-69, Cl. 200-144.
Shackelford, Judith Ann: *See—*
Cherry, Nancy R.; and Shackelford, Judith Ann,3,472,434.
Cherry, Nancy Rey; and Shackelford, Judith Ann,3,471,964.
Cherry, Nancy Rey; and Shackelford, Judith Ann,3,483,580.
Shackleton, Mitchell, and Company: *See—*
Asbridge, George Herbert, 3,463,326.
Shacklette, James E.: *See—*
Johnson, Waldo O.; and Shacklette, James E.,3,442,051.
Shackman, David, & Sons Limited: *See—*
East, Harvey James, 3,482,394.
Shackman, Jacob D., to Xerox Corporation. Display device. 3,470,797, 10-7-69, Cl. 95-1.1
Shada, Jan Dennis: *See—*
Ziolkowski, Gerald J.; and Shada, Jan Dennis,3,443,396.
Shade, Keith N.: *See—*
Ciotti, George A.; and Shade, Keith N.,3,436,528.
Shader, Benjamin A., to International Harvester Company. Conveyor chain. 3,425,536, 2-4-69, Cl. 198-189.
Shadley, Miles A., III. Automatically synchronized visual and sound presentation system. 3,447,864, 6-3-69, Cl. 352-17.
Shaer Norman R., to Bell Telephone Laboratories, Incorporated. Apparatus for automating the serving of customer- dialed station paid coin calls. 3,453,389, 7-1-69, Cl. 179-7.1
Shafer, Donald E.: *See—*
Stauffer, Norman L.; Shafer, Donald E.; and Tyler, Tommy N.,3,434,158.
Shafer, Donald S., to Watkins Manufacturing Company. Method of cutting off pieces from the end of bar stock. 3,453,912, 7-8-69, Cl. 82-47.
Shafer, James A., to Midland-Ross Corporation. Friction dampened railway truck bolster. 3,450,063, 6-17-69, Cl. 105-197.
Shafer, James A., to Midland-Ross Corporation. Bolster center plate structure. 3,473,854, 10-21-69, Cl. 308-137.
Shafer, John H.: *See—*
Sweigert, George H., 3,449,750.
Shafer, Merrill W., to International Business Machines Corporation. Process for growing single crystals. 3,480,385, 11-25-69, Cl. 23-20.
Shafer, Paul K., to Heinicke Instruments Co. Damped switch operator. 3,452,841, 7-1-69, Cl. 188-93.
Shafer, Robert J.: *See—*
Hanny, John F.; Shafer, Robert J.; and Whitaker, John G.,3,485,132.
Shafer, William C.: *See—*
Benson, Gustav E.; and Shafer, William C.,3,472,015.
Shaff, Gerald H.; Smith, Frank R.; Haren, Ralph J.; and Chiappe, Orlando J., to Walker Manufacturing Company. Muffler manufacturing system. 3,479,725, 11-25-69, Cl. 29-430.
Shaffer, Clifford A. Automatic bait release caster. 3,436,858, 4-8-69, Cl. 43-19.
Shaffer, Detmer B.; and Durst, Robert C. Washing and waxing cart for vehicles. 3,456,848, 7-22-69, Cl. 222-132.
Shaffer, Donald U.; and Vertson, John A., to Shaffer Tool Works. Ram assembly. 3,434,729, 3-25-69, Cl. 277-181.
Shaffer, Edwin S.: *See—*
Seigel, Seymour; and Shaffer, Edwin S.,3,425,672.
Shaffer, Glenn A.: *See—*
Bargainnier, Roger B.; Scheithauer, William, Jr.; and Shaffer, Glenn A.,3,447,230.
Shaffer, Herman D. Animated barber pole. 3,430,373, 3-4-69, Cl. 40-126.
Shaffer, Howard R., to I-T-E Imperial Corporation, mesne. Adjustable strength electro-magnet with constant air gap. 3,484,728, 12-16-69, Cl. 335-176.
Shaffer, Howard R.; and Brumfield, John C., to I-T-E Imperial Corporation, mesne. Motor operator for circuit breaker. 3,474,363, 10-21-69, Cl. 335-73.
Shaffer, Howard R.; and Gryctko, Carl E., to I-T-E Circuit Breaker Company. Circuit breaker device including simplified housing assembly and external contacts. 3,437,970, 4-8-69, Cl. 337-91.
Shaffer, James H.; Moulton, David M.; and Grimes, Warren R., to United States of America, Atomic Energy Commission. Method for separating uranium and protactinium from spent molten fluoride salt mixtures containing rare earth fission products. 3,473,897, 10-21-69, Cl. 23-325.
Shaffer, John W.; and Hartman, Donald W., to Sylvania Electric Products, Inc. Photoflash lamp. 3,439,992, 4-22-69, Cl. 431-93.
Shaffer, Joseph C., to Keystone Steel & Wire Company. Truss construction. 3,456,415, 7-22-69, Cl. 52-694.
Shaffer, Richard C. Conetome. 3,452,741, 7-1-69, Cl. 128-2.
Shaffer, Robert S., to Bethlehem Steel Corporation. Air knife and vacuum doctoring. 3,480,469, 11-25-69, Cl. 117-102.
Shaffer, Thomas F., Jr.: *See—*
Nickola, Richard A.; and Shaffer, Thomas F., Jr.,3,461,000.
Shaffer Tool Works: *See—*
Cugini, Edward T.; and Jeannerett, Wallace S., 3,437,149.
Erwin, Alfred S., Jr., 3,458,083.
Gibson, Wilfred C.; McClintock, Ross A.; and Thompson, Raymond E., 3,474,858.
Shaffer, Donald U.; and Vertson, John A., 3,434,729.
Shaffer, Wilfred A.: *See—*
Pontecorvo, Nicholas E.; and Shaffer, Wilfred A.,3,445,241.
Shaffer, William B., to Elox Inc., mesne. Coolant circulation system for electrical discharge machining apparatus. 3,435,175, 3-25-69, Cl. 219-69.
Shaffer, William B., to Elox Inc., mesne. Servo control circuit for electrical discharge machining apparatus. 3,435,177, 3-25-69, Cl. 219-69.
Shaffer, William E., to Stromberg-Carlson Corporation. Relay damping. 3,427,508, 2-11-69, Cl. 317-123.
Shaffer, William J.: *See—*
Ni Napoli, Louis D.; and Shaffer, William J.,3,444,449.
Shaffner, Larry N.,: *See—*
Morris, William Whitby, 3,482,807.
Shagena, Jack L.; and Kvarda, Joseph C, to Bendix Corporation, The. Digital data transmission system wherein a binary level is represented by a change in the amplitude of the transmitted signal. 3,459,892, 8-5-69, Cl. 178-68.
Shah, Indravadan S.: *See—*
Markant, Henry P.; Phillips, Norman D.; and Shah, Indravadan S.,3,471,249.
Shah, Manesh J.: *See—*
Mehta, Povindar K.; and Shah, Manesh J.,3,428,802.
Shah, Vinod D.: *See—*
Maurer, James I.; and Shah, Vinod D.,3,444,007.
Shaheen, Joseph M.; and Iles, Pamela L., to North American Rockwell Corporation. Method of making flexible circuit connections to multilayer circuit boards. 3,471,348, 10-7-69, Cl. 156-3.
Shaheen, Joseph M.; and Quintana, Leo J., to North American Rockwell Corporation. Process for forming interconnections in a multilayer circuit board. 3,464,855, 9-2-69, Cl. 117-212.
Shahrik, H. Arto: *See—*
Eichel, Bertram, 3,459,194.
Shai, Charles M.: *See—*
Schutt, John B.; and Shai, Charles M.,3,454,410.
Shaikh, Mohammed S.: *See—*
Amsterdam, Michael F.; Shaikh, Mohammed S.; and Tarneja, Krishan S.,3,438,120.
Shaikh, Mohammed S., to Westinghouse Electric Corporation. Method of fabricating a semiconductor by diffusion. 3,441,454, 4-29-69, Cl. 148-188.
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Amsterdam, Michael F., to Westinghouse Electric Corporation. Uncompensated solar cell. 3,421,946, 1-14-69, Cl. 136-89.
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Riel, Robert K., to Westinghouse Electric Corporation. Solar cell panel having cell edge and base metal electrical connections. 3,421,943, 1-14-69, Cl. 136-89.

Shaikun, Leon J.: *See—*
Mathley, Harry W.; and Dwinell, John L., 3,469,723.

Shain, Stephen A.: *See—*
Overcashier, Robert H.; Shain, Stephen A.; and Schlaudt, Charles M.,3,443,920.

Shair, Fredrick H., to United States of America, Air Force. Plasma purification by means of electrostriction. 3,431,441, 3-4-69, Cl. 310-11.

Shakespear, Horacio, to General Motors Corporation. Disc brake caliper body. 3,482,656, 12-9-69, Cl. 188-73.

Shakespeare Company: *See—*
Gayle, Robert E., 3,482,843.
Sarah, Thomas F., 3,478,976.
Sarah, Thomas F., 3,478,977.

Shakstad Electric and Machine Works, Inc.: *See—*
Jones, Robert G., 3,464,580.

Shale, Correll C., to United States of America, Interior. Process for electrostatic precipitation. 3,482,374, 12-9-69, Cl. 55-2.

Shaler, Amos J., to Stackpole Carbon Company. Low-drag hull structure with exteriorly honeycombed load-bearing shell for deep submergence vessels. 3,453,978, 7-8-69, Cl. 114-16.

Shaler, Amos J., to Stackpole Carbon Company. Brush holder for accommodating longer brushes. 3,454,803, 7-8-69, Cl. 310-245.

Shaler, John T., Company: *See—*
Rodman, Hugh, 3,486,631.

Shallahamer, Roy A.; Naito, Frank Y.; and Bernes, Donald B., to Dexter Corporation, The. Supporting and insulating means for junctured elements of small electrical components. 3,429,981, 2-25-69, Cl. 174-52.

Shallenberg, Robert L., to K-Line Corporation. Machine tool table locking mechanism. 3,427,696, 2-18-69, Cl. 29-1.

Shallenberg, Robert L., to K-Line Corporation. Machine tool feed mechanism. 3,451,295, 6-24-69, Cl. 82-86.

Shallenberger, Larry R.; and Southard, James S., to Conn, C. G., Ltd. Teaching aid for electric keyboard instrument. 3,470,785, 10-7-69, Cl. 84-470.

Shalon, Yehuda: *See—*
Sarel, Shalom; Yanuka, Yehuda; and Shalon, Yehuda,3,463,795.

Shaltis, Robert J.: *See—*
Wilkinson, James W.; and Shaltis, Robert J.,3,426,900.
Wilkinson, James W.; and Shaltis, Robert J.,3,469,566.

Shamban, W. S., & Company: *See—*
Chambers, Jack A.; and Woodson, Leslie A., 3,439,945.

Shamos, Morris H.: *See—*
Smythe, William J.; and Shamos, Morris H.,3,479,141.
Smythe, William J.; and Shamos, Morris H.,3,484,170.
Smythe, William J.; Shamos, Morris H.; and Griffin, Gary A.,3,480,369.

Shamp, Francis Furman, to Esso Research and Engineering Company. Calibration and proving of meters. 3,455,143, 7-15-69, Cl. 73-3.

Shanafelt, Gene K.: *See—*
Boylan, Jack B.; and Shanafelt, Gene K.,3,481,891.

Shanafelt, Leo A.; and Banks, Abraham. Thin cathode ray tube with array of planar vertical deflection elements. 3,435,269, 3-25-69, Cl. 313-78.

Shanbhag, Sudhakar Pundlik: *See—*
Mathur, Girish Prasad; and Shanbhag, Sudhakar Pundlik,3,472,659.

Shand, Aeneas J., to Miles Laboratories, Inc. Method and composition for the detection of urobilinogen in fluids. 3,446,599, 5-27-69, Cl. 23-230.

Shand, Aeneas J., to Miles Laboratories, Inc. Test formulation and device and method for creating an acid pH environment therein. 3,447,905, 6-3-69, Cl. 23-230.

Shandon Scientific Company Limited: *See—*
Powell, Robert H., 3,438,739.

Shandor, John J.: *See—*
Kahle, Lloyd L.; and Shandor, John J.,3,449,948.

Shanefield, Daniel J., to International Telephone and Telegraph Corporation. Operating circuit for phase change memory devices. 3,448,302, 6-3-69, Cl. 307-318.

Shanefield, Daniel J.; Battle, James H.; and Currier, Emery W., to International Telephone and Telegraph Corporation. Non-rectifying solid state element. 3,453,583, 7-1-69, Cl. 338-20.

Shanefield, Daniel J.; Battle, James H.; and Lighty, Paul E., to International Telephone and Telegraph Corporation. Solid state element comprising semiconductive glass composition exhibiting negative incremental resistance. 3,448,425, 6-3-69, Cl. 338-20.

Shanhouse, William M. Oral hygiene device. 3,452,746, 7-1-69, Cl. 128-66.

Shank, Joseph L., to Swift & Company. Inactivation of enzymes in meat. 3,442,660, 5-6-69, Cl. 99-107.

Shank, Joseph L.: *See—*
Urbain, Walter M.; Shank, Joseph L.; and Kauffman, Floyd L.,3,483,005.

Shankland, John J. Silage distributor and support therefor. 3,422,972, 1-21-69, Cl. 214-17.

Shankman, Martin. Floor pad-chair. 3,423,127, 1-21-69, Cl. 297-457.

Shanks, Bruce E., to General Electric Company. Electric incandescent lamp and method of manufacture. 3,448,321, 6-3-69, Cl. 313-315.

Shankwitz, Harold J., to Marathon Electric Manufacturing Corporation. Soft start capacitor-start motor. 3,484,670, 12-16-69, Cl. 318-221.

Shanley, James J.: *See—*
Clark, Emmett T., 3,470,882.

Shanni, Vincent, to Anthony Pools, Inc., mesne. Below-ground swimming pool assembly. 3,444,659, 5-20-69, Cl. 52-149.

Shannon, Bill M.: *See—*
Weimer, Charles L.; and Shannon, Bill M.,3,444,311.
Weimer, Charles L.; and Shannon, Bill M.,3,459,872.

Shannon, Castle: *See—*
Rothstein, Paul; Shannon, Castle; and Batz, Walter,3,428,534.

Shannon, Jack F.; and Adams, James, to Bailey Meter Company. Enthalpy sensor. 3,422,675, 1-21-69, Cl. 73-190.

Shannon, James Forrest, to Associated Electrical Industries, Limited. Epicyclic helical gearboxes. 3,425,301, 2-4-69, Cl. 74-801.

Shannon, James Forrest, to Associated Electrical Industries Limited. Epicyclic gearing. 3,459,072, 8-5-69, Cl. 74-801.

Shannon, James L.; and Sauber, Charles A., to Phillips Petroleum Company. Drilling fluid. 3,471,402, 10-7-69, Cl. 252-8.5

Shannon, Jefferson C. Three-point tractor-implement hitch. 3,447,816, 6-3-69, Cl. 280-452.

Shannon, Richard F., to Owens-Corning Fiberglas Corporation. Slurry pouring means and mold. 3,458,907, 8-5-69, Cl. 25-30.

Shannon, Richard F., to Owens-Corning Fiberglas Corporation. Reinforced hydraulic cements and casts therefrom. 3,459,571, 8-5-69, Cl. 106-114.

Shannon, Richard F., to Owens-Corning Fiberglas Corporation. Fire resistant glass fiberboard and method of making same. 3,470,977, 10-7-69, Cl. 181-33.

Shannon, Richard F.: *See—*
Pfeifer, Oliver W.; and Shannon, Richard F.,3,472,668.

Shannon, Suel Grant: *See—*
Graeff, Norwood Claude; and Shannon, Suel Grant,3,476,115.

Shannon, Suel Grant; and Graeff, Norwood Claude, to AMP Incorporated. Ligating hemostat for applying a noose with a locking disc. 3,426,757, 2-11-69, Cl. 128-326.

Shannon, Suel Grant; and Graeff, Norwood Claude, to AMP Incorporated. Ligating implement. 3,476,114, 11-4-69, Cl. 128-326.

Shanok, Jesse P.; and Shanok, Victor, to Glass Laboratories Company. Process for bonding a hot melt polymeric coating to a substrate. 3,470,015, 9-30-69, Cl. 117-72.

Shanok, Jesse P.; and Shanok, Victor, to Glass Laboratories Company. Hot melt coating process. 3,480,462, 11-25-69, Cl. 117-47.

Shanok, Jesse P.: *See—*
Shanok, Victor; and Shanok, Jesse P.,3,421,350.
Shanok, Victor; and Shanok, Jesse P.,3,455,546.
Shanok, Victor; and Shanok, Jesse P.,3,458,386.

Shanok, Victor; and Shanok, Jesse P., to Glass Laboratories Company. Protective cover for a keyhole assembly. 3,421,350, 1-14-69, Cl. 70-455.

Shanok, Victor; and Shanok, Jesse P., to Glass Laboratories Company. Impact resistant member. 3,455,546, 7-15-69, Cl. 267-1.

Shanok, Victor; and Shanok, Jesse P., to Glass Laboratories Company. Decorative trim strip and method of making same. 3,458,386, 7-29-69, Cl. 161-121.

Shanok, Victor: *See—*
Shanok, Jesse P.; and Shanok, Victor,3,470,015.
Shanok, Jesse P.; and Shanok, Victor,3,480,462.

Shanstrom, Raymond T.: *See—*
Fortescue, Peter; and Shanstrom, Raymond T.,3,475,272.

Shape, Raymond H.: *See—*
Motley, Joe Bailey; and Shape, Raymond H.,3,440,858.

Shaper, Harry B., to Empire Scientific Corporation. Electromagnetic phonograph pickup cartridges with zero balanced armature flux. 3,441,688, 4-29-69, Cl. 179-100.41

Shaper, Harry B., to Empire Scientific Corporation. Variable reluctance phonograph cartridge. 3,469,040, 9-23-69, Cl. 179-100.41

Shapero, Maurice; and Green, Peter Nicholl, to Ward Blenkinsop & Company Limited. 2-Substituted 1,4-benzodioxanes. 3,472,874, 10-14-69, Cl. 260-340.3

Shapero, Maurice: *See—*
Green, Peter N.; and Shapero, Maurice,3,426,043.
Green, Peter N.; and Shapero, Maurice,3,457,281.

Shapira, Nathan, to Cartiera di Cairate S.p.A. Container for small paper napkins. 3,425,595, 2-4-69, Cl. 221-52.

Shapiro, Arthur; and Zuvich, Jerome J., to Bell Telephone Laboratories, Incorporated. Apparatus for detecting the echoes of transmitted signals. 3,471,781, 10-7-69, Cl. 324-77.

Shapiro, David F.: *See—*
Cannon, Ernest W.; and Byrens, David W., 3,463,218.

Shapiro, David: *See—*
Reach, Roy W.; and Shapiro, David,3,438,011.

Shapiro, Elliot L.: *See—*
Herzog, Hershel L.; and Shapiro, Elliot L.,3,455,968.
Herzog, Hershel L.; and Shapiro, Elliot L.,3,475,466.

Shapiro, Elliot L.; Collins, Elliott J.; and Finckenor, Lawrence E., to Schering Corporation. 17-Mono esters of corticoids. 3,422,193, 1-14-69, Cl. 424-243.
Shapiro, Elliot L.; and Finckenor, Lawrence E., to Schering Corporation. Selective solvolysis of 11β, 17α,21-triesters of the pregnane series. 3,444,217, 5-13-69, Cl. 260-397.45
Shapiro, Eugene B.: *See*—
Gore, William C.; and Shapiro, Eugene B.,3,485,451.
Harris, Thomas J.; Fleisher, Harold; and Shapiro, Eugene,3,434,778.
Shapiro, Harris, to General Dynamics Corporation. Rotating electrical apparatus. 3,445,701, 5-20-69, Cl. 310-160.
Shapiro, Hymin; and Conrad, Franklin, to Ethyl Corporation. Process for the concurrent production of AlF_3 and a metallic titanium product. 3,455,678, 7-15-69, Cl. 75-84.4
Shapiro, Hymin; and Hudson, Russell L., to Ethyl Corporation. Gasoline composition containing organo-1,1- dihalocyclopropyllead compound. 3,443,919, 5-13-69, Cl. 44-69.
Shapiro, Hymin; and Hudson, Russell L., to Ethyl Corporation. Gasoline composition containing alkyl-1,1- dihaloalkyllead compound. 3,475,145, 10-28-69, Cl. 44-69.
Shapiro, John, 50% to Goench, Mahmut I. Portable drafting device. 3,471,930, 10-14-69, Cl. 33-27.
Shapiro, Laban D.; Latham, Peter A.; Brefka, Paul E.; and LaBrie, Paul J., to Aerospace Research, Inc., mesne. Instrument housing. 3,479,568, 11-18-69, Cl. 317-120.
Shapiro, Laurence L.; and Parillo, Vincent, to Bond Stores, Incorporated. Hanger bar lock. 3,472,385, 10-14-69, Cl. 211-7.
Shapiro, Michael D.: *See*—
Worcester, Francis J.; Shapiro, Michael D.; and Duda, James L.,3,468,214.
Shapiro, Michael F.; and Kirschenbaum, Gabriel. Method of and apparatus for developing rolls of film. 3,452,664, 7-1-69, Cl. 95-90.5
Shapiro, Mordecai; and Perlmutter, Jerome. Picture mat cutter. 3,463,041, 8-26-69, Cl. 83-564.
Shapiro, Nelson H.: *See*—
Board, Richard G.; and Shapiro, Nelson H.,3,425,645.
Shapiro, Philip: *See*—
Ehrlich, Robert; and Shapiro, Philip,3,487,084.
Shapiro, Samuel S., to United States of America, Atomic Energy Commission, Under provisions of 42 U.S.C. 2182. Thermoelectric composition comprising doped bismuth telluride, silicon and boron. 3,485,757, 12-23-69, Cl. 252-62.3
Shapiro, Sidney: *See*—
Erdley, Harold F.; Lipman, Jerome S.; and Shapiro, Sidney,3,463,016.
Shapiro, Sydney H., to Armour Industrial Chemical Company, mesne. Quaternary ammonium compounds. 3,452,028, 6-24-69, Cl. 260-290.
Shapiro, Warren B.: *See*—
Elkin, Samuel; and Shapiro, Warren B.,3,463,782.
Shapiro, Zalman M., to Nuclear Materials and Equipment Corporation. Apparatus for producing vapor coated particles. 3,429,295, 2-25-69, Cl. 118-49.1
Shapland, Earl P., Jr. Lawn care apparatus. 3,452,823, 7-1-69, Cl. 172-42.
Shapland, Earl P., Jr.; and West, John R., said West assor. to Scott, O. M., & Sons Company, The. Lawn care apparatus. 3,460,629, 8-12-69, Cl. 172-42.
Shapland, Helen R.: *See*—
Shapland, John S.,3,425,502.
Shapland, John S., deceased0 (by Shapland, Helen R., executrix), to Koehring Company. Weighing scale. 3,425,502, 2-4-69, Cl. 177-171.
Shapovalov, Sergei Vasiljavich: *See*—
Khachijan, Alexei Sergeevich; Skuinj, Alexandr Kasparovich; Lekhovitser, Moisei Alexandrovich; Linich, Viktor Vladimirovich; Shapovalov, Sergei Vasiljavich; and Ocheretin, Ivan Vasiljevich,3,480,418.
Sharaev, Oleg Konstantinovich: *See*—
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.
Sharaf, Nathan. Dishrack. 3,422,959, 1-21-69, Cl. 211-41.
Sharbaugh, Amandus H., to General Electric Company. Capacitor having electrode coated with conductive solid polymer electrolyte. 3,483,438, 12-9-69, Cl. 317-230.
Sharetts, Robert R., to Polymer Corporation, The, mesne. Holding and masking device. 3,440,078, 4-22-69, Cl. 117-21.
Sharif, Ahmed N. Method of fabricating a panel. 3,420,925, 1-7-69, Cl. 264-102.
Sharif, Louay E.; and Hooper, Robert C., to Texas Instruments, Incorporated. Method of fabricating thin film capacitors. 3,466,719, 9-16-69, Cl. 29-25.42
Sharkey, John F.; and Lavoie, Raymond E., Jr. Reflective indicator device. 3,433,203, 3-18-69, Cl. 116-28.
Sharkey, Robert T.; and Westerman, Ralph L., to United States of America, Navy, mesne. Electrical conductor attachment means. 3,424,855, 1-28-69, Cl. 174-97.
Sharkey, William H.: *See*—
Magat, Eugene E.; and Sharkey, William H.,3,475,898.
Sharma, Vijay Ratna: *See*—
Hurlock, Ronald James; Wood, Leonard; and Sharma, Vijay Ratna,3,483,239.
Sharman, Samuel H.: *See*—
Anderson, Robert Griffin; and Sharman, Samuel H.,3,423,474.
Sharon, Al U., to Xerox Corporation. Dataphone driven remote graphic display system. 3,457,371, 7-22-69, Cl. 179-2.
Sharon, Wilfred J. Forming machine. 3,451,249, 6-24-69, Cl. 72-402.
Sharonized Steel Co.: *See*—
Persky, Nathan N., 3,486,704.
Sharp, Arnold G.; Shultz, William S.; and Sullivan, James R., to Woods Hole Oceanographic Institution. Impact-energized sound source. 3,433,202, 3-18-69, Cl. 116-27.
Sharp, Brian William: *See*—
Davis, Michael; Parnell, Edgar William; and Sharp, Brian William,3,485,845.
Sharp, Chester H.: *See*—
Spitz, Melvin P.; Sharp, Chester H.; and Sproule, John W.,3,431,567.
Sharp, Dexter B., to Monsanto Company. Polymer hydroperoxide. 3,484,353, 12-16-69, Cl. 204-159.23
Sharp, Donald Jex: *See*—
De Angelo, Michael Anthony; Sagal, Matthew Warren; and Sharp, Donald Jex,3,485,665.
Sharp, Ewing L. Circuit board wire trimmer. 3,453,918, 7-8-69, Cl. 83-471.
Sharp, Floyd M., to Evans Products Company. Freight bracing apparatus. 3,433,179, 3-18-69, Cl. 105-369.
Sharp, James K.; and Vaher, Eo, to Sperry Rand Corporation. Laser capable of continuous frequency tuning. 3,436,678, 4-1-69, Cl. 331-94.5
Sharp, James K.; and Vaher, Eo, to Sperry Rand Corporation. Multiple laser amplifier phase control system. 3,453,559, 7-1-69, Cl. 331-94.5
Sharp, James K.: *See*—
Schneider, Joseph R.; Sharp, James K.; and Vaher, Eo,3,482,184.
Sharp, John Arthur: *See*—
Murdock, James David; and Sharp, John Arthur,3,463,746.
Sharp, John Arthur, to Canadian Industries Limited. Particle board. 3,440,189, 4-22-69, Cl. 260-9.
Sharp, John Beverley, to Varian Associates. Device for handling an end of yarn or roving. 3,451,207, 6-24-69, Cl. 57-34.
Sharp, Kenneth C.: *See*—
Sharp, Tilmon L.; and Sharp, Kenneth C.,3,429,516.
Sharp, Robert E.; and Miracle, Roland, to Belden Manufacturing Company. Shielded cable for high frequency use. 3,439,111, 4-15-69, Cl. 174-107.
Sharp, Royds: *See*—
MacLean, Robert Sisterson; Mc Clintock, Andrew Lindsay Muir; and Sharp, Royds,3,465,570.
Sharp, Shelby P.: *See*—
Sudduth, Lamar F.; and Sharp, Shelby P.,3,450,629.
Sharp, Tilmon L.; and Sharp, Kenneth C. Dental equipment. 3,429,516, 2-25-69, Cl. 242-47.5
Sharp, Walter Martin, to Chemrock Corporation. Portable perlite handling apparatus and method. 3,447,789, 6-3-69, Cl. 263-22.
Sharpe, Archibald Walter, to Sperry Rand Limited, mesne. Motion responsive distance indicating device with calibrating means. 3,483,729, 12-16-69, Cl. 73-1.
Sharpe, Cecil H.: *See*—
Grundman, Richard G.; and Sharpe, Cecil H.,3,477,647.
Sharpe, Edgar, & Associates Limited: *See*—
Sharpe, Edgar J., 3,462,830.
Sharpe, Edgar J., to Sharpe, Edgar, & Associates Limited. Method of making a magnetometer. 3,462,830, 8-26-69, Cl. 29-592.
Sharpe, James F., to Acme Highway Products Corporation. Apparatus for inserting seals in pavement grooves. 3,466,988, 9-16-69, Cl. 94-39.
Sharpe, John C.: *See*—
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace,3,483,071.
Sharpe, Kenneth B., to Sharpe Manufacturing Company. Spray gun with pressure gauge feature. 3,482,781, 12-9-69, Cl. 239-71.
Sharpe, Lawrence W.: *See*—
Hayner, Paul F.; and Sharpe, Lawrence W.,3,433,126.
Hayner, Paul F.; and Sharpe, Lawrence W.,3,433,128.
Hayner, Paul F.; and Sharpe, Lawrence W.,3,433,129.
Hayner, Paul F.; and Sharpe, Lawrence W.,3,447,566.
Sharpe Manufacturing Company: *See*—
Sharpe, Kenneth B., 3,482,781.
Sharpe, Ned K., to Burlington Industries, Inc. Warp knit fabric containing loose filling and having unfrayed selvage. 3,444,707, 5-20-69, Cl. 66-190.

Sharpe, Peter S., to Brule Incinerator Corporation. Modular incinerator construction. 3,446,163, 5-27-69, Cl. 110-8.
Sharpe, Stanley R.: *See—*
Dodgson, John R.; and Sharpe, Stanley R.,3,446,518.
Sharpe, Verlos G.: *See—*
Fosler, John R.; and Sharpe, Verlos G.,3,476,253.
Sharples, Allan; and Banks, William, 1/2 to Little, Arthur D., Research Institute, and 1/2 to United States of America, Interior. Method for preparing desalination membranes. 3,439,074, 4-15-69, Cl. 264-41..
Sharples, Kenneth R., to DASA Corporation, mesne. Apparatus for composing messages for telephonic transmission. 3,435,421, 3-25-69, Cl. 340-172.5
Sharples, Philip P.: *See—*
Dalton, John F.; and Sharples, Philip P.,3,464,612.
Sharples, Richard Colin, to Lucas, Joseph, (Industries) Limited. Electrical switches. 3,466,413, 9-9-69, Cl. 200-168.
Sharples, Richard Colin, to Lucas, Joseph, (Industries) Limited. Switch assemblies for use with printed circuits. 3,476,900, 11-4-69, Cl. 200-166.
Shartrand, Allan C.: *See—*
Albright, Donald R.; Shartrand, Allan C.; and Otteson, Albert J.,3,441,758.
Shartrand, Allan C.; Holley, Charles H.; and Archibald, James B., to General Electric Company. Generator with gas coolers and cylindrical-elliptical frame sections. 3,461,329, 8-12-69, Cl. 310-55.
Shashoua, Fred Ezra, to RCA Corporation. Color image display system utilizing a light valve. 3,470,310, 9-30-69, Cl. 178-5.2
Shatas, William J.; and Smith, Stanley, to Middlebury Manufacturing Co., Inc. Magnetic flag. 3,430,170, 2-25-69, Cl. 335-234.
Shatavsky, Morris S.: *See—*
Collins, Jerome F.; and Shatavsky, Morris S.,3,475,565.
Shattuck, Meredith D.; and Vahtra, Ulo, to International Business Machines Corporation. Organic photoconductive compositions and their use in electrophotographic processes. 3,484,237, 12-16-69, Cl. 96-1.5
Shattuck, Richard E., to SCM Corporation. Back space mechanism for typewriters and like machines. 3,482,671, 12-9-69, Cl. 197-91.
Shattuck, Robert, to Borg-Warner Corporation. Method of molding thermoplastic articles. 3,476,852, 11-4-69, Cl. 264-261.
Shattuck, Russell D., to United States of America, National Aeronautics and Space Administration. Protection of serially connected solar cells against open circuits by the use of shunting diode. 3,437,818, 4-8-69, Cl. 250-212.
Shatz, Malcolm H., to Hooker Chemical Corporation. Process for reacting a diolefinic polymer with polyhalocyclopentadiene and products thereof. 3,444,154, 5-13-69, Cl. 260-94.7
Shaughnessy, John J. Injection mold assembly. 3,479,698, 11-25-69, Cl. 18-42.
Shaul, Duane D.: *See—*
Goard, Howard W.; and Shaul, Duane D.,3,448,587.
Shaull, Stanley D.: *See—*
Bush, Jack A.; and Shaull, Stanley D.,3,475,790.
Shaunfield, Wallace N.: *See—*
Pollock, Larry J.; and Shaunfield, Wallace N.,3,441,815.
Shavalier, Marion Fred, to Crouse-Hinds Company. Airport runway marker lighting unit. 3,463,913, 8-26-69, Cl. 240-1.2
Shavel, John, Jr.; and Bobowski, George, to Warner-Lambert Pharmaceutical Company. *p*-Acylphenylethylamines. 3,445,518, 5-20-69, Cl. 260-570.8
Shavel, John, Jr.; and Bobowski, George, to Warner-Lambert Pharmaceutical Company. 3,4-Dihydroxybenzoxazinones and process for their production. 3,446,804, 5-27-69, Cl. 260-244.
Shavel, John, Jr.; and Bobowski, George, to Warner-Lambert Pharmaceutical Company. Substituted benzylamine derivatives and process for their production. 3,452,048, 6-24-69, Cl. 260-347.4
Shavel, John, Jr.; and Morrison, Glenn C., to Lambert, Werner Pharmaceutical Company. Process for the production of (±) dihydrothebainone. 3,438,989, 4-15-69, Cl. 260-285.
Shavel, John, Jr.; and Morrison, Glenn Curtis, to Warner-Lambert Pharmaceutical Company. 4,5,6,6α,7,7α,13,12α-Octahydroisoquino[8,8α, 1-α,β]-carbazole-1,2-diols and process for their production. 3,452,023, 6-24-69, Cl. 260-286.
Shavel, John, Jr.; and Morrison, Glenn Curtis, to Warner-Lambert Pharmaceutical Company. 5,6-Dihydro and 1,2,3,4,5,6-hexahydro-8-alkoxy-9H- indolo-[2,3-c]isoquino[1,2-F] [1,2]azaphosphorine 8-oxides and process for their production. 3,452,024, 6-24-69, Cl. 260-288.
Shavel, John, Jr.; and Von Strandtmann, Maximilian, to Warner-Lambert Pharmaceutical Company. 7-Benzyl-7H-yohimbanes. 3,487,086, 12-30-69, Cl. 260-286.
Shavel, John, Jr.: *See—*
Zinnes, Harold; Shavel, John, Jr.; and Sternberg, Martin S.,3,479,436.
Shaver, James M.; and McCann, Joseph E. Paper roll holder. 3,454,236, 7-8-69, Cl. 242-55.2
Shaver, Kenneth J., to Monsanto Company. Detergent processes. 3,423,321, 1-21-69, Cl. 252-135.
Shaver, Kenneth J.: *See—*
Kowalski, Xavier; and Shaver, Kenneth J.,3,457,177.
Shaver, Paul J., to General Electric Company. Methods and apparatus for measuring the content of hydrogen or reducing gases in an atmosphere. 3,479,257, 11-18-69, Cl. 204-1.
Shaver, Richard C., to Cowles Chemical Company. Process for producing sodium metasilicate pentahydrate. 3,471,253, 10-7-69, Cl. 23-110.
Shaver, Robert G.: *See—*
Alexander, John Audley; and Shaver, Robert G.,3,455,662.
Shaver, William R., to Pullman Incorporated. Operating mechanism for vehicle discharge means. 3,459,317, 8-5-69, Cl. 214-63.
Shavrin, Nikolai Vasilievich: *See—*
Avilov, Viktor Zakharovich; Aralov, Vyacheslav Ivanovich; Daletsky, Genrikh Stanislavovich; Ivanov, Boris Dmitrievich; Kantor, Grigory Vladimirovich; Pasternak, Evgeny Nikolaevich; Raigorodsky, Leonard Markovich; Schegolev, Igor Stepanovich; and Shavrin, Nikolai Vasilievich,3,460,992.
Shaw & Slavsky, Inc.: *See—*
Slavsky, Robert J., 3,419,977.
Shaw, Albert E. Pin detection system with radially symmetrical pattern of magnetic reed switches. 3,463,491, 8-26-69, Cl. 273-52.
Shaw, Alfred W.: *See—*
Hassell, Howard L.; and Shaw, Alfred W.,3,465,063.
Shaw, Alfred W.; Wilcoxen, Charles H., Jr.; and Mango, Frank D., to Shell Oil Company. Reaction of lithium-terminated polymers with carbon monoxide. 3,427,364, 2-11-69, Cl. 260-879.
Winkler, De Loss E.; and Shaw, Alfred W.,3,452,118.
Shaw, Allan, to National Research Development Corporation. Environmental space conditioning chamber. 3,478,817, 11-18-69, Cl. 165-21.
Shaw, David N., to Carrier Corporation. Coupling. 3,425,452, 2-4-69, Cl. 138-89.
Shaw, David N., to Carrier Corporation. Overtemperature and lubricant loss protector for compressors. 3,426,962, 2-11-69, Cl. 230-17.
Shaw, David N., to Carrier Corporation. Compressor lubrication arrangement. 3,465,953, 9-9-69, Cl. 230-206.
Shaw, David Robert, to Cindico (Products) Limited. Harnesses for baby exercisers. 3,447,832, 6-3-69, Cl. 297-274.
Shaw, Don W.; and Mehal, Edward W., to Texas Instruments Incorporated. Method of making shaped epitaxial deposits. 3,425,879, 2-4-69, Cl. 148-175.
Shaw, Francis M., to British Cast Iron Research Association, The. Apparatus for milling foundry sand. 3,425,670, 2-4-69, Cl. 259-72.
Shaw, Fred D., Jr., to Du Pont de Nemours, E. I., and Company. Coating composition based on aromatic diisocyanates, polyols, and monohydric alcohols. 3,425,973, 2-4-69, Cl. 260-18.
Shaw, George: *See—*
Liang, Sou Chu; and Shaw, George,3,433,627.
Shaw, Harold N. Heat exchangers. 3,435,806, 4-1-69, Cl. 122-41.
Shaw, Harry, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Blades for fluid flow machines. 3,458,119, 7-29-69, Cl. 230-134.
Shaw, Herbert J.: *See—*
Karp, Arthur; Winslow, Donald K.; and Shaw, Herbert J.,3,475,642.
Winslow, Donald K.; Shaw, Herbert J.; and Quate, Calvin F.,3,465,177.
Shaw, Howard G. Safety device and assembly using same. 3,422,977, 1-21-69, Cl. 215-9.
Shaw, Howard G. Safety cover for electrical outlets. 3,467,763, 9-16-69, Cl. 174-67.
Shaw, Hugh E., Jr., to PPG Industries, Inc. Combination of electrically heated transparent window and antenna. 3,484,583, 12-16-69, Cl. 219-522.
Shaw, Hugh E., Jr., to PPG Industries, Inc. Combination of electrically heated transparent window and antenna. 3,484,584, 12-16-69, Cl. 219-522.
Shaw, Hugh H.: *See—*
McCartney, Duane N.; Carder, Victor H.; and Shaw, Hugh H.,3,435,969.
Shaw, James R. Method and apparatus for irrigation control. 3,439,507, 4-22-69, Cl. 61-28.
Shaw, John & Sons (Salford) Ltd.: *See—*
Stevenson, Harry, 3,423,996.
Shaw, John J. Method of making a muzzle brake. 3,478,417, 11-18-69, Cl. 29-558.
Shaw, John Peter Hodson, to Imperial Chemical Industries Limited. Method of adjusting individual anodes in a mercury cathode cell. 3,464,903, 9-2-69, Cl. 204-99.
Shaw, John S.; Dostel, John J.; White, Donald K.; Elste, Edwin S.; Kellogg, John F.; and O'Neale, John D., to Acme Visible Records, Inc. Test grading machine. 3,460,827, 8-12-69, Cl. 271-57.
Shaw, Joseph C.: *See—*
Ensor, William L.; and Shaw, Joseph C.,3,458,625.
Shaw, Joseph D. Fluid measuring device. 3,460,395, 8-12-69, Cl. 73-440.
Shaw, Joseph Denman. Combination mixing and injecting medical syringe. 3,477,432, 11-11-69, Cl. 128-218.
Shaw, Joshya, & Sons Limited: *See—*
Drake, Ronald, 3,463,506.

Shaw, Louis, to Lucas, Joseph, (Industries) Limited. Rotors with winding insulation for dynamoelectric machines. 3,423,619, 1-21-69, Cl. 310-263.

Shaw, Mark B., to Tork Time Controls, Inc. Photoelectric control device for street lights. 3,421,008, 1-7-69, Cl. 250-214.

Shaw, Maurice V.: *See*—
Raver, Louis J.; and Shaw, Maurice V.,3,443,197.

Shaw, Merle N., to Kerr-McGee Corporation. Vanadium recovery from wet process phoshoric acid using alpha-hydroxy oximes. 3,437,454, 4-8-69, Cl. 23-312.

Shaw, Michael Kevin: *See*—
Rawson, Peter John; and Shaw, Michael Kevin,3,477,383.

Shaw, Richard Elliott; and Wiltshire, James Phillip, to Imperial Chemical Industries Limited. Electrocoating process with pretreatment of articles. 3,420,762, 1-7-69, Cl. 204-181.

Shaw, Richard; and Wood, James K., to Canadian Industries Limited. Process for producing potassium azide. 3,455,648, 7-15-69, Cl. 23-101.

Shaw, Robert C.; and Stover, Harry L., to Bell Telephone Laboratories, Incorporated. Phase modulator including a driver and a driven oscillator. 3,437,958, 4-8-69, Cl. 332-16.

Shaw, Robert F.: *See*—
Steiner, Lajos, 3,438,660.

Shaw, Robert F.; and Sheer, Charles, said Sheer assor. to said Shaw. Plasma arc scalpel. 3,434,476, 3-25-69, Cl. 128-303.1

Shaw, Robert J.: *See*—
Horvitz, David; Shaw, Robert J.; and Baugh, William D.,3,423,175.

Shaw, Robert W., Jr., to Chemetron Corporation. Flanged transition joint for dissimilar metals. 3,425,718, 2-4-69, Cl. 285-173.

Shaw, Robert W., to Tingue, Brown & Company. Container for transporting articles and for selective release of same. 3,464,733, 9-2-69, Cl. 294-71.

Shaw, Ronald; and Thore, Thomas J., to Singer Company, The. Knitting machine apparatus for producing tubular fabric without a helical bias. 3,472,048, 10-14-69, Cl. 66-147.

Shaw, William, to Rolls-Royce Limited. Thrust reverser for a jet propulsion engine. 3,434,666, 3-25-69, Cl. 239-265.19

Shaw, William: *See*—
Mortlock, James Oswald; London, William Herbert; and Shaw, William,3,475,913.

Shaw-Walker Company, The: *See*—
Paquette, Kenneth N., 3,439,893.

Shawhan, Elbert N.: *See*—
Mayer, Robert; Shawhan, Elbert N.; and Young, Einar T.,3,473,380.

Shawinigan Chemicals Limited: *See*—
Bregazzi, Michael, 3,443,900.

Shay, Edward G.: *See*—
Petrocci, Alfonso N.; Prodo, Kenneth W.; Shay, Edward G.; and Wakeman, Reginald L.,3,472,939.
Cohen, Sidney; and Shay, Edward Griffin,3,437,419.
Wakeman, Reginald L.; and Shay, Edward Griffin,3,471,562.

Shay, Joseph P.; and Ross, Roland R. Calibrated slotting tool. 3,464,313, 9-2-69, Cl. 90-12.

Shea, Donald D. Squeegee mop. 3,457,579, 7-29-69, Cl. 15-121.

Shea, Gerald J., to Underwriters Safety Device Co. Multiple switch. 3,487,177, 12-30-69, Cl. 200-5.

Shea, John C. Liquor bottle registering means and method. 3,484,976, 12-23-69, Cl. 40-310.

Shea, Leo M. Transportable motel trailer. 3,484,131, 12-16-69, Cl. 296-23.

Shea, Richard A., to Pillsbury Company, The. Single-stage angel food cakes. 3,459,560, 8-5-69, Cl. 99-92.

Shead, Herbert Charles, to Newman, William, & Sons Limited. Spring door-closing appliances. 3,421,176, 1-14-69, Cl. 16-49.

Sheaffer, John A., to Dorr-Oliver Incorporated. Trunnion valve for continuous rotary filters. 3,455,454, 7-15-69, Cl. 210-91.

Sheahan, Robert E., to Stewart-Warner Corporation. Caster bumper assembly. 3,461,480, 8-19-69, Cl. 16-18.

Shean, James W.: *See*—
Scidmore, Wright H.; and Shean, James W.,3,443,105.

Sheardown, John Maxwell. Control valves for fluids. 3,487,435, 12-30-69, Cl. 137-454.6

Shearer, Charles J., to Shell Oil Company. Apparatus for mixing viscous fluids. 3,424,437, 1-28-69, Cl. 259-4.

Shearer, Charles J., to Shell Oil Company. Apparatus for processing viscous fluids. 3,443,796, 5-13-69, Cl. 259-5.

Shearer, Charles J.: *See*—
Overcashier, Robert H.; and Shearer, Charles J.,3,443,798.

Shearer, Joseph W., Jr.: *See*—
Buckley, John J.; and Shearer, Joseph W., Jr.,3,429,188.

Shearer, William E., to Cordell, Carl R., Jr. Artificial fish bait. 3,449,853, 6-17-69, Cl. 43-42.24

Shearon, George B.; and Stevenson, Gerald L., to International Minerals & Chemical Corporation. Defluorination of phosphoric acid. 3,429,663, 2-25-69, Cl. 23-165.

Shears, Stuart T., to United-Carr, Incorporated. Hook and snap garment fastener. 3,435,491, 4-1-69, Cl. 24-224.

Shears, Stuart T., to United-Carr Incorporated, mesne. Key retainer. 3,469,424, 9-30-69, Cl. 70-456.

Shears, Stuart T.; and Van Buren, Harold S., Jr., to United-Carr Incorporated, mesne. Detachable helmet liner suspension harness. 3,451,066, 6-24-69, Cl. 2-3.

Sheary, George W., III; and Steele, James E., to Bethlehem Steel Corporation. Mechanical deep sea nodule harvester. 3,480,326, 11-25-69, Cl. 299-8.

Sheasby, Peter Geoffrey; Short, Edward Percival; and Guminski, Roman Dominik, to Aluminium Laboratories Limited. Anodising treatment for aluminium. 3,468,772, 9-23-69, Cl. 204-58.

Sheatsley, Larry L.: *See*—
Hauth, Charles R.; and Sheatsley, Larry L.,3,436,064.

Shebanow, Michael S., to Honeywell Inc. Return mechanism. 3,420,521, 1-7-69, Cl. 271-84.

Shebanow, Michael S., to Honeywell Inc. Storage device with adherence of record number to rotating drum during information transfer. 3,465,319, 9-2-69, Cl. 340-174.1

Shebanow, Michael S., to Honeywell Inc. Record processing apparatus. 3,480,930, 11-25-69, Cl. 340-174.1

Shebs, Theodore L.: *See*—
Kwiatanowski, Philip, Jr.; and Shebs, Theodore L.,3,464,543.

Sheckells, Amuel E., to International Steel Company. Revolving door assembly quick disconnect connector. 3,473,261, 10-21-69, Cl. 49-43.

Shedd, Wilfred G.; and Clarke, Beresford N. Hearth. 3,434,703, 3-25-69, Cl. 263-21.

Shedlarski, George A.: *See*—
Strauss, Walter S.; and Shedlarski, George A.,3,476,181.

Shedlovsky, Leo, to Colgate-Palmolive Company. Dental preparation containing polymeric polyelectrolyte. 3,429,963, 2-25-69, Cl. 424-56.

Sheehan, Desmond, to American Cyanamid Company. Generation of chemiluminescent light. 3,442,814, 5-6-69, Cl. 252-188.3

Sheehan, Desmond, to American Cyanamid Company. Chemiluminescent composition and method. 3,470,103, 9-30-69, Cl. 252-186.

Sheehan, Desmond, to Techni-Chem Company, The. Process for preparing caprolactam and its alkyl substituted derivatives. 3,485,821, 12-23-69, Cl. 260-239.3

Sheehan, Desmond; and Clarke, Rose Ann, to American Cyanamid Company. 9-Cyanoacridans and process for their production. 3,431,264, 3-4-69, Cl. 260-279.

Sheehan, John Clark, to Bristol-Myers Company. 3-Blocked amino-4-sulfhydryl-2-azetidinones. 3,487,070, 12-30-69, Cl. 260-239.

Sheehan, John Clark, to Bristol-Myers Company. 3-Blocked amino $\Delta F1$,-2-azetidinones. 3,487,071, 12-30-69, Cl. 260-239.

Sheehan, John Clark, to Bristol-Myers Company. 3-Amino-4-mercapto-2-azetidinone. 3,487,072, 12-30-69, Cl. 260-239.

Sheehan, John Clark, to Bristol-Myers Company. Derivatives of 6-amino-3-penamylcarboxylic acid and 7-amino-2,2-dimethylcephalosporanic acid. 3,487,074, 12-30-69, Cl. 260-239.1

Sheehan, John Clark, to Bristol-Myers Company. Certain alpha-amino bicyclic beta-lactam carboxylic acids. 3,487,079, 12-30-69, Cl. 260-243.

Sheehan, John Clark, to Bristol-Myers Company. Disulfides of 3-blocked amino-2-azetidinones. 3,487,090, 12-30-69, Cl. 260-326.

Sheehan, Richard S. Gas burner units for wall installation in furnaces and kilns. 3,471,247, 10-7-69, Cl. 431-347.

Sheehan, William C., to Phillips Petroleum Company. Dyeable polypropylene containing a polyetherester. 3,487,453, 12-30-69, Cl. 260-897.

Sheehan, William C.; and Thomas, George R., to United States of America, Army, mesne. Fluoroalkylamidomethylpyridinium compounds. 3,423,417, 1-21-69, Cl. 260-295.

Sheehan, William R.: *See*—
Green, Joseph; Levine, Nathan B.; and Sheehan, William R.,3,427,279.

Sheely, Harold Russell, to Badger Company, Inc., The, mesne. Purification of acetonitrile by an azeotropic distillation method. 3,451,899, 6-24-69, Cl. 203-69.

Sheer, Benjamin. Scribing device. 3,426,432, 2-11-69, Cl. 33-41.

Sheer, Charles: *See*—
Shaw, Robert F.; and Sheer, Charles,3,434,476.

Sheeran, Harold W., to Apache Powder Company, mesne. Luminescent coated detonating fuse. 3,474,730, 10-28-69, Cl. 102-27.

Sheeran, Harold W.; and Oriard, Marcel H. Aqueous ammonium nitrate blasting composition containing solid carbonaceous fuel and method of preparing same. 3,450,582, 6-17-69, Cl. 149-2.

Sheeran, Harold W.; and Oriard, Marcel H., to Oriard Powder Co., Inc. Blasting agent composition containing a hydrocarbon fuel and coated ammonium nitrate. 3,453,155, 7-1-69, Cl. 149-5.

Sheesley, John M. Center bar rotary motor. 3,485,139, 12-23-69, Cl. 91-180.

Sheetmaster Corporation: *See*—
Moore, George E., Sr., 3,474,553.

Sheets, Chester R., to Okonite Company, The, mesne. Strand wrapping machine. 3,435,602, 4-1-69, Cl. 57-15.

Sheets, Herman E.; and Brancart, Claude P., to General Dynamics Corporation. Pump. 3,433,163, 3-18-69, Cl. 103-87.

Sheets, Marvin W., to General Electric Company. Encapsulation process for random wound coils. 3,436,815, 4-8-69, Cl. 29-605.

Sheets, Ronald E.: *See—*
Van Ornum, Delbert G.; and Sheets, Ronald E.,3,447,013.
Sheets, Thomas M., to St. Regis Paper Company. Automatic bagging machines. 3,421,287, 1-14-69, Cl. 53-190.
Sheets, Thomas M., to Du Pont de Nemours, E. I., and Company. Preparation of 4,4'-dinitrodiphenyl ether. 3,442,956, 5-6-69, Cl. 260-612.
Sheetz, David P.; and Filer, Terry D., to Dow Chemical Company, The. Purification of 9- (and 10-) acrylamidostearic acid. 3,444,219, 5-13-69, Cl. 260-404.
Sheetz, David P.: *See—*
Tong, Yu-Lan Chang; Tomalia, Donald A.; and Sheetz, David P.,3,454,597.
Shefcik, William P.: *See—*
Remaly, Robert F.; Shefcik, William P.; and Nelson, Malcolm B.,3,474,702.
Sheffer, Howard E.: *See—*
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J.,3,425,866.
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J.,3,426,098.
Sheffield, Herman E.: *See—*
Locheed, Edward W., Jr.; and Sheffield, Herman E.,3,464,022.
Sheffield Twist Drill & Steel Co. Limited, The: *See—*
Bramhall, John Michael, 3,456,392.
Bramhall, John Michael, 3,481,084.
Sheffield, Wilbur L.: *See—*
Cavagnero, Erman V.; Sheffield, Wilbur L.; and Morro, Joseph L.,3,433,041.
Shefler, Sydney: *See—*
Little, Steven M.; Shefler, Sydney; and McGowan, Marvin E.,3,460,507.
Sheidow, Russell N. Memorial marker with removable indicia. 3,481,089, 12-2-69, Cl. 52-103.
Sheikh, Ramsey U., to Riley Stoker Corporation. Steam generating unit. 3,476,090, 11-4-69, Cl. 122-478.
Sheinblujm, Vladimir Mikhailovich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.
Sheinker, Moshe. Superbroiler. 3,422,746, 1-21-69, Cl. 99-445.
Shekels, Harold F., to United States Steel Corporation. Molten metal producing furnace. 3,425,676, 2-4-69, Cl. 266-11.
Shekerjian, Hart: *See—*
Bishop, Virgil S.; and Shekerjian, Hart,3,475,097.
Shekro, Christe M., to Avco Corporation. Automatic shaft positioning A.C. dynamic brake. 3,486,097, 12-23-69, Cl. 318-203.
Shelbourne Industries, Incorporated: *See—*
Glass, David E., 3,421,725.
Shelby Business Forms, Inc.: *See—*
Dowen, James A., 3,428,237.
Shelby, Earl E. Hitch device. 3,421,779, 1-14-69, Cl. 280-479.
Shelby Parts Co., Inc.: *See—*
Stewart, Jerry D., 3,484,137.
Shelby, Richard K.: *See—*
Aykanian, Ardashus A.; and Shelby, Richard K.,3,424,826.
Shelby, Richard K., to Monsanto Company. Heater for forming plastic bodies. 3,419,939, 1-7-69, Cl. 18-35.
Shelby, Richard K., to Monsanto Company. Infrared heating method for molding machines and the like. 3,432,640, 3-11-69, Cl. 219-354.
Shelby, Richard K., to Monsanto Company. Formation of plastic articles by employing a positive pressure. 3,458,903, 8-5-69, Cl. 18-19.
Shelby, Richard K., to Monsanto Company. Method of forming plastic articles. 3,483,284, 12-9-69, Cl. 264-89.
Shelby, Richard K.; and Rapp, Jay W., to Monsanto Company. Plastic containers. 3,428,238, 2-18-69, Cl. 229-5.6
Shelby, Rufus F.: *See—*
Berenbaum, Arthur; and Shelby, Rufus F.,3,447,386.
Sheld, Clarence A.: *See—*
Lueck, Irving B.; and Sheld, Clarence A.,3,471,358.
Sheldahl, David B., to Sinclair Research, Inc. Switch assembly for detecting underground leaks. 3,427,414, 2-11-69, Cl. 200-61.04
Sheldahl, David B.: *See—*
Teeter, Ford C.; Sheldahl, David B.; and Highberg, Carle W.,3,453,784.
Sheldall, Garland L. Eductor type proportioner. 3,445,067, 5-20-69, Cl. 239-318.
Shelden, Raymond G.: *See—*
Grebe, Chauncey L.; Minor, Ralph S., Jr.; and Shelden, Raymond G.,3,428,818.
Sheldon, Anthony John. Vehicle transmissions. 3,424,261, 1-28-69, Cl. 180-70.
Sheldon, Deane P.: *See—*
Harvey, Philip C.; Sheldon, Deane P.; and van Opijnen, Leendert J. K.,3,449,564.
Sheldon, Deane P., to National Research Corporation. Cold cathode penning type gauge for monitoring vacuum level in a sputtering process. 3,447,072, 5-27-69, Cl. 324-33.
Sheldon, E. H., & Company: *See—*
Carlson, Arthur W.; and Peterson, Roger W., 3,469,814.
Sheldon, Edward E. Vacuum tubes with a curved electron image intersifying device. 3,461,332, 8-12-69, Cl. 313-65.
Sheldon, Edward Emanuel. Vacuum tube device having light conducting rods and luminescent screen. 3,423,620, 1-21-69, Cl. 313-65.
Sheldon, Edward Emanuel. Electrical image device including a vacuum tube provided with endwall having an array of electrical conductors receiving electrical currents forming the image and amplifying means for said currents. 3,424,932, 1-28-69, Cl. 313-73.
Sheldon, Edward Emanuel. Devices for inspection using fiberoptic members. 3,437,747, 4-8-69, Cl. 178-6.
Sheldon, Edward Emanuel. Vacuum tube responsive to an electrical image received through an endwall of said tube provided with a plurality of electrical conductors. 3,453,471, 7-1-69, Cl. 313-65.
Sheldon, Edward J., to Raytheon Company. Polarization insensitive microwave energy phase shifter. 3,445,851, 5-20-69, Cl. 343-754.
Sheldon, Edward J.; Mangiapane, Rosario; and Segarra, Edwin, to Raytheon Company. Beam-steering apparatus. 3,484,785, 12-16-69, Cl. 343-100.
Sheldon, Eldon L. Foldable lectern structure. 3,424,283, 1-28-69, Cl. 190-11.
Sheldon, Gilbert J., to Bausch & Lomb Incorporated. Fiber optic inspection device. 3,481,660, 12-2-69, Cl. 350-96.
Sheldon, Luther M.: *See—*
Schumacher, Walter C.; and Sheldon, Luther M.,3,461,417.
Sheldon, Neville Maurice: *See—*
Stern, Alfred; and Sheldon, Neville Maurice,3,452,122.
Sheldon, Richard C., to General Electric Company. Combined steam-gas cycle with limited gas turbine. 3,420,054, 1-7-69, Cl. 60-39.18
Sheldon, Robert W. Spacer construction and method of manufacturing same. 3,480,060, 11-25-69, Cl. 151-14.
Sheldon, William M., to Pulverizing Machinery, division of Slick Industrial Company. Fine granulator. 3,436,025, 4-1-69, Cl. 241-15.
Sheldrake, Leonard J.; and Mullen, Jerrold L., to General Motors Corporation. Direct current commutation system for brushless electrical motors. 3,449,654, 6-10-69, Cl. 321-5.
Shelhart, Robert Edward, to Dura Corporation. Safety backup system for power steering. 3,434,282, 3-25-69, Cl. 60-52.
Shelhart, Robert E., to Dura Corporation. Hydraulic power unit with disc motor. 3,477,378, 11-11-69, Cl. 103-118.
Shell, Donald L.: *See—*
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A.,3,454,932.
Shell, Francis J.: *See—*
Floyd, James C.; and Shell, Francis J.,3,479,287.
Shell, Francis J., to Phillips Petroleum Company. Treatment of oxygen-poor water. 3,446,733, 5-27-69, Cl. 210-59.
Shell, Haskiel R.: *See—*
Johnson, Robert C.; and Shell, Haskiel R.,3,463,607.
Nichols, Earl F.; Ivey, Kenneth H.; and Shell, Haskiel R.,3,443,891.
Shell Oil Company: *See—*
Adair, James C., 3,474,879.
Adair, James C.; Baier, William E., Jr.; Gilmore, Ronald P.; and Wottlin, William O., 3,483,505.
Adams, Charles R.; Falbe, Jurgen F.; and Korte, Friedrich W.A.G.K., 3,433,792.
Alders, Lucas; and Ridderikhoff, Werner, 3,449,462.
Allen, Roy A.; and Lantz, William L., 3,477,971.
Anderson, Victor F., 3,432,061.
Anderson, Victor F., 3,455,605.
Anderson, Victor F., 3,481,501.
Anderson, William S., 3,449,249.
Anderson, William S., 3,484,857.
Appel, Bruce R., 3,438,929.
Arpe, Hans J., 3,455,998.
Asenbauer, Donald J., 3,421,656.
Asenbauer, Donald J., 3,463,343.
Asenbauer, Donald J., 3,464,579.
Ashworth, Roger W.; and Mercer, Alec V., 3,450,675.
Balas, Jaroslav G., 3,448,176.
Barnett, Kenneth W.; and Raley, John H., 3,459,826.
Bauer, Ralph H.; and Deisz, Marvin A., 3,441,530.
Bauer, Robert F.; and Stratton, Hal, 3,426,858.
Benesi, Hans A., 3,475,345.
Benson, Arnold M., 3,459,653.
Berger, Jerry E., 3,438,804.
Berger, Jerry E., 3,444,080.
Bernard, Hugh A.; Daigle, Edwin E.; and Richardson, Jacob C., 3,438,452.
Bijl, Aart; and Nihof, Hendrikus J., 3,454,886.
Binsbergen, Frederik L., 3,471,455.
Blankenhorn, Charles F.; and Grahek, Ted A., 3,454,503.

Blytas, George C.; Bell, Edward R.; and Dunlop, Arthur K., 3,449,240.
Booher, Russell L., 3,462,367.
Borstlap, Cornelis; and Bakker, Pieter M., 3,449,432.
Bosselaar, Hendrik, 3,442,349.
Bosselaar, Hendrik; and van Riemsdijk, Arnoldus J., 3,462,240.
Bradley, Bryant W., 3,439,744.
Breukink, Carel J.; and Vermeulen, Jacob, 3,440,309.
Broussard, Douglas E.; Barry, Donald W.; Kinzbach, Robert B.; and Kershner, Stuart G., 3,438,213.
Broussard, Douglas E.; Hemphill, Dean P.; Bolling, Thomas J., Jr.; and Roach, Erskine E., 3,463,518.
Broussard, Douglas E.; and Hemphill, Dean P., 3,466,882.
Broussard, Douglas E.; and Barry, Donald W., 3,472,035.
Bruist, Edmond H., 3,483,926.
Bruist, Edmond Hubert, 3,474,862.
Buchel, Karl H.; Draber, Wilfried; and Korte, Friedrich W.A.G.K., 3,423,420.
Burns, William C.; and Vlig, Meye, 3,432,071.
Burns, William C.; and Taylor, Ronald B., 3,458,618.
Calhoun, George H.; Bingman, William E.; and Swanson, Theodore M., 3,463,250.
Cannell, Lawrence; Magoon, Eugene F.; and Raley, John H., 3,424,815.
Carey, James E., 3,474,834.
Chassagne, Pierre C.; and Neel, Emmanuel E., 3,457,772.
Christie, Samuel H., 3,438,937.
Chu, Paul T.; and Coldren, Clarke L., 3,473,542.
Chung, Harold; Dewhirst, Kenneth C.; and Smutny, Edgar J., 3,444,202.
Closmann, Philip J.; and Ode, Helmer, 3,448,801.
Closmann, Philip J., 3,478,825.
Coldren, Clarke L.; and Chu, Paul T., 3,474,806.
Cook, Sam P., 3,484,739.
Cook, Samuel P., 3,484,740.
Cook, Samuel Pinckney, 3,438,693.
Cornelissen, Jan, 3,454,165.
Cornforth, John W., 3,436,403.
Crecelius, Robert L.; and Deahl, Thomas J., 3,459,675.
Crespin, George T. F.; Roycroft, Donald M.; and Price, Colin D., 3,447,358.
Dante, Mark F.; and Parry, Harvey L., 3,477,990.
Darley, Henry C. H., 3,422,890.
Darley, Henry C. H., 3,483,923.
Davis, Frank C.; Luther, William B.; and Martinson, Donald L., 3,427,269.
De Acetis, William; and Smutny, Edgar J., 3,432,465.
De Acetis, William; and Newey, Herbert A., 3,448,112.
de Ruyter van Steveninck, Albert W.; and Beevendorp, Johannes, 3,477,974.
de Yarmett, Harry W.; and Johnson, Murray F., 3,459,442.
Deans, Harry A.; and Prats, Michael, 3,474,863.
Deffeyes, Kenneth S.; and Orr, William R., 3,475,679.
Dekker, Jan, 3,422,172.
Deviney, Marvin L., Jr., 3,439,043.
Dewhirst, Kenneth C., 3,454,644.
Dewhirst, Kenneth C., 3,480,659.
Dijkers, Johannes L. C.; and Michielsen, Ludovicus, 3,459,610.
Dijkstra, Tette J.; and Vogelzang, Edward J. W., 3,477,982.
Dozier, James Ronald; and Johnson, Glenn D., 3,442,540.
Drinkwater, John W., 3,472,593.
Durie, Robert W., 3,439,742.
Dvoretzky, Isaac; and Mango, Frank D., 3,448,167.
Falbe, Jurgen F.; and Huppes, Nicolaas, 3,446,839.
Feenstra, Robijn, 3,453,719.
Feenstra, Robijn, 3,471,921.
Ferrante, Gerald R., 3,443,987.
Fetterly, Lloyd C.; and Conklin, George W., 3,438,997.
Fraatz, Robert E., 3,431,889.
Freitas, Ernest R.; Dunn, Clarence L.; and Zarker, Keith E., 3,463,603.
Frew, Duncan W., Jr., 3,480,609.
Frielingsdorf, Hans, 3,443,277.
Frijlink, Willem, 3,438,215.
Gable, Charles M.; Duncan, Edward A., Jr.; and Freitas, Ernest Robert, 3,475,318.
Goepfert, Benjamin L.; and Visser, Robert C., 3,454,051.
Goodman, Willard B., 3,423,944.
Goodman, Willard B., 3,463,251.
Goodman, Willard B., 3,463,549.
Goodman, Willard B., 3,479,829.
Goppel, Johan M., 3,470,595.
Gouw, Lam H.; Voncken, Josef H.; Frielingsdorf, Hans; and Powers, Gene W., 3,480,507.
Grosse-Oetringhaus, Hellmuth, 3,469,955.
Hackmann, Johannes T., 3,432,599.
Hackmann, Johannes Th.; and Wood, Jack, 3,449,361.
Haefele, Walter R., 3,464,850.
Haefele, Walter R.; Dallas, Charles A.; and Deisz, Marvin A., 3,485,787.
Hall, Albert B., 3,428,685.
Hallstrom, James R.; and Lopez, John A., 3,480,577.
Halper, Walter M.; and Moss, Fred Dudley, 3,438,920.
Halper, Walter M.; York, Roger F.; and Moss, Fred Dudley, 3,459,693.
Hamby, Tyler W., Jr.; and Patterson, Maurice M., 3,424,249.
Hartmann, Philippus C. P., 3,449,047.
Hassell, Howard L.; and Shaw, Alfred W., 3,465,063.
Hassell, Howard L.; and Hayter, Roy G., 3,480,696.
Haynes, George R.; McBeth, Clyde W.; Pilgram, Kurt H. G.; and White, Lyle V., 3,454,682.
Helfferich, Friedrich G.; and Loth, Rene A., 3,451,924.
Henderson, Bennett M., 3,438,897.
Henderson, Bennett M.; Ratner, Hyman; and Wittner, Eugene, 3,480,550.
Henderson, David W.; and Raley, John H., 3,439,061.
Hillyer, Martin J., 3,477,979.
Holler, Howard V.; and Youngman, Edward A., 3,481,914.
Holm, Roy T., 3,429,853.
Holm, Roy T., 3,440,233.
Holm, Roy T., 3,484,408.
Hopkin, Edmund A., 3,455,904.
Hottman, Clarence E.; and Van Meurs, Pieter, 3,432,205.
Jenkins, John W., 3,449,461.
Johnson, Glenn D., 3,443,387.
Johnson, Glenn D.; and Gibbs, Fred E., 3,454,088.
Johnson, Glenn D., 3,463,037.
Johnson, Glenn D., 3,463,226.
Johnson, Herbert G., 3,470,291.
Jones, Robert C., 3,431,323.
Kastor, Ross L., 3,451,264.
Klein, Harvey S., 3,448,159.
Klein, Harvey S., 3,472,876.
Klootwijk, Arie, 3,435,052.
Klootwijk, Arie, 3,448,122.
Klootwijk, Arie; and Van Deursen, Josephus H., 3,471,456.
Kohll, Charles F.; and Fekkes, Nanno, 3,467,697.
Kohnle, Josef F.; and Slaugh, Lynn H., 3,444,258.
Kolb, Robert H., 3,466,532.
Kouwenhoven, Herman W.; Aben, Pieter C.; and van der Wal, Karel, 3,422,001.
Kouwenhoven, Herman W.; and Douwes, Cornelis Th., 3,432,565.
Krol, Lambertus H.; Van Breen, Adriaan W.; and De Jong, Martijn H., 3,471,432.
Kuderna, Jerome G., Jr.; and Skiles, Richard D., 3,478,105.
Kuhre, Calvin J.; and June, Ronald K., 3,449,089.
Kuhre, Calvin J.; and June, Ronald K., 3,480,332.
La Heij, Gerardus E.; and Waterman, Jacques A., 3,424,705.
La Heij, Gerardus E.; Waterman, Jacques A.; and Smout, Adrianus D., 3,485,895.
Lamb, Marcus J.; De Yarmett, Harry William; and Barr, Clifford L., 3,438,203.
Legge, Norman R.; and Snyder, John L., 3,459,830.
Leu, Kurt W., 3,438,935.
Livingston, Leslie D.; Rowland, John K.; and Crespin, George T. F., 3,440,863.
Loois, Hendrikus J., 3,439,076.
Lopatin, George; and Schroeder, Carl W., 3,468,044.
Lopez, John A.; and Hallstrom, James R., 3,446,762.
Loren, Jay D., 3,474,878.
Lorensen, Lyman E.; Beardmore, James W.; and Fowkes, Frederick M., 3,475,393.
Lowe, Raymond E., 3,434,549.
Luftglass, Murray A., 3,439,065.
Luftglass, Murray A.; and Hendricks, Willis R., 3,459,831.
Lugue, Rafael Fernandez, 3,479,828.
Luke, Robert R.; Robinson, Marshall M.; and Thomson, Kenneth, 3,445,856.
Luque, Rafael Fernandez, 3,456,448.
Luque, Rafael Fernandez, 3,470,841.
Mac Henry, Carl; Weaver, John A.; and Towell, Gordon D., 3,477,491.
MacNab, Adrian J.; and Treseder, Richard S., 3,432,254.
Macphail, Alexander C. B.; and Wright, Neville E., 3,483,122.
Magoon, Eugene F.; Cannell, Lawrence G.; and Raley, John H., 3,483,269.
Mallander, Richard G., 3,462,959.
Mallander, Richard G., 3,467,435.
Malott, Raymond A., 3,431,950.
Mango, Frank D., 3,424,811.
Mango, Frank D.; and Newey, Herbert A., 3,476,693.
Mann, Roger H., 3,458,600.
Marsden, Peter D., 3,429,737.
Marshall, Peter W., 3,483,708.
Martin, Jon W., 3,432,578.
Martin, Jon W.; Snyder, John L.; and Himes, Glenn R., 3,473,240.
Martin, Jon W., 3,477,148.
Martinovich, William M., 3,485,050.
Mason, Ronald F., 3,435,076.

Matthews, Charles S.; Van Meurs, Pieter; and Volek, Charles W., 3,455,391.
May, Clayton A.; and Badenhop, Charles T., 3,420,794.
May, Clayton A., 3,420,914.
May, Clayton A., 3,432,478.
McClure, James D.; and Barnett, Kenneth W., 3,424,816.
McClure, James D., 3,431,318.
McClure, James D., 3,444,208.
McClure, James D.; and Williams, Paul H., 3,475,458.
Meijer, Hermanus, 3,446,027.
Merrick, James W., 3,440,348.
Methven, Norbert E.; and Richardson, Edwin A., 3,428,122.
Meyer, Frank L.; Reiss, Lewis Philip; and Titus, Paul E., 3,443,837.
Moss, Fred Dudley; and Bean, Arthur R., Jr., 3,465,065.
Muller, Ernst W.; Zoche, Gunter; and Korte, Friedrich W.A.G.K., 3,475,477.
Murdock, Robert E., 3,427,190.
Newey, Herbert A., 3,449,375.
Newfarmer, Leo R., 3,461,979.
Newman, Nicholas B.; Foster, Kenneth W.; and Geer, Ronald L., 3,474,857.
Nozaki, Kenzie, 3,446,842.
Nyberg, David D.; and Hendricks, Willis R., 3,424,649.
Ongkiehong, Leo; and Mast, Harm, 3,432,000.
Otteman, Lloyd G.; and Geer, Ronald L., 3,434,296.
Overcashier, Robert H.; and Shearer, Charles J., 3,443,798.
Overcashier, Robert H.; Shain, Stephen A.; and Schlaudt, Charles M., 3,443,920.
Overcashier, Robert H.; and Sanborn, Charles E., 3,464,967.
Page; Calvin A., 3,485,925.
Patterson, Maurice M.; and Prats, Michael, 3,443,639.
Payne, George B., 3,455,964.
Pearce, Harry H.; Turner, James B.; and Wise, Harold L., 3,461,830.
Pearson, David L., 3,449,421.
Peurifoy, Paul V.; and Woods, Littleton A., 3,475,129.
Pijpers, Franciscus W.; and Starmans, Maria M.J.J., 3,428,575.
Porter, Lee M., 3,485,894.
Prats, Michael, 3,434,757.
Prats, Michael; Street, Evan H., Jr.; and Harthorn, Wayne A., 3,438,443.
Prats, Michael; and Van Meurs, Pieter, 3,455,383.
Prats, Michael, 3,455,392.
Prats, Michael, 3,481,398.
Prescott, Basil O.; Wise, Harold L.; and Chesnut, Dwayne A., 3,451,780.
Prew, Lionel R., 3,428,013.
Pryor, John A.; Frazier, Chester J., Jr.; Smith, Lawrence L.; and Stanzione, John A., 3,438,442.
Quik, Willem C. J.; and Van Weeren, Pieter A., 3,449,078.
Quist, Bernardus Bastiaan, 3,449,483.
Rakestraw, James A.; and Lees, Norman W.F., 3,483,265.
Reid, Jon B.; and Pearson, David L., 3,427,352.
Reinmuth, Ernst F.; and Ter Haar, Leonard W., 3,446,609.
Reisberg, Joseph, 3,455,386.
Richards, Harry F., 3,459,700.
Richardson, Edwin A., 3,438,440.
Richardson, Edwin A., 3,438,441.
Richardson, Thomas W. G.; Johnson, Glenn D.; and Hemphill, Dean P., 3,431,739.
Rijnsdorp, Johannes E.; van Kampen, Johannes A.; and Bollen, Hans, 3,428,527.
Rochling, Hans F. W.; Buchel, Karl-Heinz; and Korte, Friedrich W.A.G.K., 3,459,759.
Roddick, Douglas G., 3,456,493.
Roever, William L., 3,464,513.
Rosa, Eugene J., 3,457,419.
Rust, Frederick F.; and Klein, Harvey S., 3,480,661.
Ryland, Lloyd B., 3,432,558.
Scheineman, John A., 3,474,829.
Scheuerman, Ronald F.; Scott, Paul R.; and Fraser, John P., 3,438,680.
Schlobohm, Roland T.; and Kelly, Margaret A., 3,438,898.
Schlobohm, Roland T.; and Glaser, William Jack, 3,454,496.
Schlobohm, Roland T., 3,459,661.
Schuur, Gerrit, 3,424,704.
Schwarzer, Carl G., 3,452,116.
Schwarzer, Carl G., 3,454,570.
Scott, Paul R., 3,432,209.
Scott, Paul R.; and Scheuerman, Ronald F., 3,474,596.
Shaw, Alfred W.; Wilcoxen, Charles H., Jr.; and Mango, Frank D., 3,427,364.
Shearer, Charles J., 3,424,437.
Shearer, Charles J., 3,443,796.
Shellene, Kent R.; and Chu, Paul T., 3,448,944.
Short, Richard T.; and Pinnington, Clive, 3,438,817.
Sieders, Christiaan H.; and Verbeek, Henri P. J., 3,434,617.
Slaugh, Lynn H.; and Mullineaux, Richard D., 3,448,157.
Slaugh, Lynn H.; and Mullineaux, Richard D., 3,448,158.
Sloan, Alexander D. B., 3,467,671.
Slott, Robert S.; Bell, Edward R.; and Pilgram, Kurt H. G., 3,478,044.
Smith, Curtis W.; and Mason, Ronald F., 3,456,017.
Smith, Curtis W.; Schrauzer, Gerhard N.; Windgassen, Richard J.; and Koetitz, Kenneth F., 3,463,819.
Smith, George; May, Clayton A.; Seid, Donald M.; and Haycock, Ernest W., 3,455,805.
Smith, George, 3,472,747.
Smith, Noyes D., Jr.; and Vogel, Charles B., 3,430,726.
Smith, Noyes D., Jr.; and Vogel, Charles B., 3,481,425.
Smutny, Edgar J., 3,444,163.
Sobolev, Igor, 3,428,617.
Spitzer, Ernst L. Th. M.; and Radder, Johannes, 3,432,257.
Stanton, Benjamin D., 3,448,382.
Stanton, Benjiman D., 3,452,774.
Stanton, Benjiman D., 3,484,590.
Stanton, Benjiman D., 3,486,013.
Storm Van Leeuwen, Frederik W., 3,444,019.
Strickland, William T., Jr., 3,448,807.
Studer, Heinz P., 3,451,545.
Suman, George O., Jr., 3,482,629.
Swanson, Theodore M.; Calhoun, George H.; Bingman, William E.; and Treseder, Richard S., 3,462,239.
Thomas, Neil L., 3,468,687.
Tieman, Charles H., 3,458,573.
Titus, Paul E., 3,481,713.
Torgerson, Raymond L.; Feld, David; and O'Neill, William P., 3,484,959.
Trent, James A.; Kubitschek, Hans E.; Hook, Harvey E.; and Caudel, Fred H., 3,453,988.
Van Daalen, Francois; Van Domselaar, Hans R.; and Hooykaas, Henricus, 3,467,191.
Van der Meij, Pieter H.; and Buitelaar, Arnold A., 3,483,170.
van der Plas, Franciscus J. F., 3,481,704.
Van Der Plas, Franciscus J. F.; and Fleurke, Karel H., 3,483,136.
Van Der Voort, Henricus G. P.; and De Jong, Willem P., 3,454,555.
Van Dijk, Jan C., 3,474,756.
Van Dyke, Ross E., 3,475,349.
Van Geijn, Jacob, 3,421,581.
Van Helden, Henricus J. A.; Kouwenhoven, Herman W.; and Quik, Willem C. J., 3,442,794.
van Leeuwen, Frederik W.; van Dijk, Jan C.; and Hoogeveen, Johan C., 3,446,689.
van Westrenen, William J., 3,464,939.
van Westrenen, William J., 3,477,871.
Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F., 3,420,898.
Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F., 3,440,291.
Van Zijll Langhout, Wouter C., 3,444,071.
Vegter, Geert C.; and Sinnema, Feije H., 3,471,421.
Verschuur, Eke, 3,485,367.
Vincent, Robert E.; Collins, Charles G.; Snyder, Nate H.; and West, Frank B., 3,458,404.
Visser, Robert C., 3,426,843.
Vogel, Charles B., 3,424,268.
Wagner, Willem M.; and Klootwijk, Arie, 3,462,398.
Waight, Francis H.; and MacPhail, Alexander C. B., 3,429,813.
Ward, Loyal F., Jr.; and Phillips, Donald D., 3,435,113.
Waterman, Jacques A.; and Selman, Jan, 3,465,067.
Waterman, Jacques A.; and Selman, Jan, 3,483,275.
West, Francis G., 3,461,957.
Westbrook, Howard L., 3,454,421.
Wilcoxen, Charles H., Jr., 3,454,546.
Williams, Keith R.; and Smith, John G., 3,464,861.
Wilson, Joseph G.; Franzel, Harvey L.; and Markway, Leroy H., 3,443,368.
Winkler, De Loss E.; and Shaw, Alfred W., 3,452,118.
Winkler, Deloss E.; Hayter, Roy G.; and Stubbs, William H., 3,455,891.
Wittenwyler, Clifford V.; and Magee, John E., 3,447,955.
Wittner, Eugene; and Wendler, Kenneth T., 3,432,433.
Wittner, Eugene, 3,454,497.
Woodson, Millard L., 3,474,629.
Yates, John; and Haddock, Ernest, 3,424,723.
Youngman, Edward A.; Bauer, Ronald S.; and Dewhirst, Kenneth C., 3,444,145.
Zunderdorp, Henricus J., 3,430,597.

Shellabarger, John L.: *See*—
Collier, Charles P.; and Shellabarger, John L., 3,454,764.

Shellene, Kent R.; and Chu, Paul T., to Shell Oil Company. Finned capsules. 3,448,944, 6-10-69, Cl. 243-32.

Sheller Manufacturing Corporation: *See*—
Emery, Donald B., 3,456,043.

Sheller-Globe Corporation: *See*—
Emery, Donald B.; and Miller, James A., 3,446,890.
McGara, Homer J.; and Spang, Edward B., 3,444,768.
Palmai, Robert, 3,463,689.

Rogers, Williams D., 3,453,715.
Sturrock, Alex T., 3,433,757.

Shelley, Donald P. Kilns with atmosphere propulsion. 3,463,469, 8-26-69, Cl. 263-40.

Shelley, Howard E.: *See—*
Brill, Edward F.; and Shelley, Howard E.,3,459,453.
Risse, Ralph F.; and Shelley, Howard E.,3,485,531.

Shelley, John Henry, to Smiths Industries Limited. Oscillating motor for horological instruments. 3,430,119, 2-25-69, Cl. 318-128.

Shelley, Robert E., to Toroid Corporation, mesne. Universal flexure type joint. 3,420,582, 1-7-69, Cl. 308-2.

Shellhause, Ronald L., to General Motors Corporation. Brake master cylinder. 3,478,517, 11-18-69, Cl. 60-54.6

Shellman, Robert R.: *See—*
Shellman, Robert R.; and Crusey, Howard W., 3,442,009.

Shellman, Robert R.; and Crusey, Howard W., 40% to Shellman, Robert R. 40% to Monaco, Filomena, and 20% to Crusey, Howard W., mesne. Method of brazing aluminum to ferrous metal. 3,442,009, 5-6-69, Cl. 29-482.

Shelly Associates, Inc.: *See—*
Gardner, Raymond W., 3,460,135.

Shelly, Donald J.: *See—*
Huff, Herbet G.; and Shelly, Donald J.,3,433,213.

Shelly, Thomas J., to Owens-Corning Fiberglas Corporation. Fitments for filament wound vessels. 3,436,102, 4-1-69, Cl. 285-114.

Shelly, William A.: *See—*
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,425,039.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,931.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A.,3,454,932.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W.,3,454,933.
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A.,3,454,934.
Bahrs, David L.; Couleur, John F.; Ruth, Richard L.; and Shelly, William A.,3,483,525.
Cohen, Robert; Couleur, John F.; and Shelly, William A.,3,482,264.
Cohen, Robert; Shelly, William A.; and Vidulich, Samuel M.,3,482,265.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,471,834.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,154.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,155.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,473,156.
Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L.,3,478,320.

Shelton, Billy George. Stops. 3,428,349, 2-18-69, Cl. 292-288.

Shelton, Cecil B.: *See—*
Bohne, Hugh; and Shelton, Cecil B.,3,484,314.

Shelton, Charles F., Jr., to Cerro Corporation. Insulated conductor. 3,425,865, 2-4-69, Cl. 117-218.

Shelton, Dothan L. Vibrating tillage implement. 3,425,496, 2-4-69, Cl. 172-40.

Shelton, Glenmore L., Jr., to International Business Machines Corporation. Scanner threshold adjusting circuit. 3,466,603, 9-9-69, Cl. 340-146.3

Shelton, Harry J., Jr., to Gruendler Crusher & Pulverizer Co. Vertical shredders. 3,480,213, 11-25-69, Cl. 241-92.

Shelton, Jack L.: *See—*
Buxton, Thomas S.; and Shelton, Jack L.,3,459,265.

Shelton, John J.: *See—*
Brown, Jerald L.; and Shelton, John J.,3,431,425.

Shelton, Lawrence S., to Signode Corporation. Steel strapping. 3,421,951, 1-14-69, Cl. 148-39.

Shelton, Norman Thomas, to Potlatch Forests, Inc. Apparatus for overlapping scarfed veneer sheets. 3,463,295, 8-26-69, Cl. 198-35.

Shelton, Norman Thomas; Keller, Harold A.; and Seay, Dwight G., to Potlatch Forests, Inc. Process for manufacturing a continuous veneer strip. 3,461,932, 8-19-69, Cl. 144-317.

Shelton, Philip L.: *See—*
Murphy, Earl R.; and Shelton, Philip L.,3,465,254.

Shelton, Robert F.: *See—*
Hirsch, James A.; and Shelton, Robert F.,3,443,180.

Shelton, Russell D., to United States of America, National Aeronautics and Space Administration. Electron beam instrument for measuring electric fields. 3,470,466, 9-30-69, Cl. 324-72.

Shelton, Russell S., to Crounse Corporation. Linear actuator. 3,425,284, 2-4-69, Cl. 74-25.

Shelton, Stephen M.; and Poole, Henry Gordon, to Oregon Metallurgical Corporation. Reduction and purification of reactive metals. 3,464,813, 9-2-69, Cl. 75-84.4

Shelton, Thomas M.: *See—*
Kennedy, Clifford F.; and Shelton, Thomas M.,3,431,764.

Shelton, Vernon E., to Hughes Aircraft Company. Interconnection between external shield and internal conductor. 3,469,016, 9-23-69, Cl. 174-36.

Shelvey, Richard B.: *See—*
Wendell, Charles B.; Jordan, Merrill E.; Burbine, William G.; and Shelvey, Richard B.,3,443,901.

Shely, Benjamin L: *See—*
Morgan, David A.; and Shely, Benjamin L,3,457,075.
Shepard, Joseph W.; and Shely, Benjamin L.,3,429,706.

Shema, Bernard F.; Reilly, John P.; and Kubasko, Paul E., to Betz Laboratories, Inc. Slimicidal composition and method. 3,426,134, 2-4-69, Cl. 424-302.

Shemaev, Alexandr Mikhailovich: *See—*
Butaev, Filipp Ivanovich; Klimov, Nikolai Semenovich; Pertsev, Alexei Alexandrovich; Stepanov, Nikolai Pavlovich; Shemaev, Alexandr Mikhailovich; and Shkolin, Ilya Dmitrievich,3,437,863.

Shen, Chung Yu, to Monsanto Company. Detergent processes. 3,431,210, 3-4-69, Cl. 252-135.

Shen, Chung Yu, to Monsanto Company. Alkali metal condensed phosphate materials, processes for preparing same and resulting compositions. 3,441,374, 4-29-69, Cl. 23-106.

Shen, Chung Yu, to Monsanto Company. Process for manufacture of crystalline pyrophosphoric acid. 3,453,075, 7-1-69, Cl. 23-165.

Shen, Chung Yu, to Monsanto Chemical Company. Method for producing phosphates. 3,473,889, 10-21-69, Cl. 23-108.

Shen, Chung Yu; and Fitch, Steven J., to Monsanto Company. Preparation of methyl amino di (methylenephosphonic acid). 3,459,793, 8-5-69, Cl. 260-502.5

Shen, Chung Yu; and Stahlheber, Norman Earl, to Monsanto Company. Detergent fluidized drying process. 3,426,440, 2-11-69, Cl. 34-10.

Shen, Tsung-Ying, to Merck & Co., Inc. Chemical compounds. 3,462,450, 8-19-69, Cl. 260-326.12

Shen, Tsung-Ying; and Dorn, Conrad P., Jr., to Merck & Co., Inc.Treatment of inflammation with 4-phenyl-α-methyl- phenyl acetic acid, its salts, esters or amide derivatives. 3,466,372, 9-9-69, Cl. 424-248.

Shen, Tsung-Ying; Dorn, Conrad P., Jr.; and Ruyle, William V., to Merck & Co., Inc. Acetic acid type compounds. 3,452,079, 6-24-69, Cl. 260-469.

Shen, Tsung-Ying; and Linn, Bruce O., to Merck & Co., Inc. 2-Bornanemethylamines. 3,483,254, 12-9-69, Cl. 260-563.

Shen, Tsung-Ying; and Matzuk, Alexander, to Merck & Co., Inc.Certain 4-[2,3 or 4-pyridyl]-phenylacetic acid and derivatives thereof. 3,449,349, 6-10-69, Cl. 260-295.

Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr., to Merck & Co., Inc. Certain lower-alkyl sulfinylmethyl pyridines. 3,438,992, 4-15-69, Cl. 260-294.8

Shen, Tsung-Ying; Matzuk, Alexander; and Dorn, Conrad P., Jr., to Merck & Co., Inc. Aromatic sulfones certain picolylmethyl sulfones. 3,444,175, 5-13-69, Cl. 260-294.8

Shen, Tsung-Ying; and Ruyle, William V., to Merck & Co., Inc. Arabinofuranosyl-2-thiopyrimidines and pharmaceutical compositions thereof. 3,463,850, 8-26-69, Cl. 424-180.

Shen, Tsung-Ying; and Sarett, Lewis H., to Merck & Co., Inc.α-Halomethyl-1-thenoyl, furoyl or pyrrol carbonyl-3-indolylacetic acids. 3,426,038, 2-4-69, Cl. 260-326.12

Shen, Tsung-Ying; and Sarett, Lewis H., to Merck & Co., Inc.α-Halomethyl-1-pyridine or quinoline carbonyl-3-indolylacetic acids. 3,449,348, 6-10-69, Cl. 260-294.8

Shen, Tsung-Ying; and Shunk, Clifford H., to Merck & Co., Inc. Heterocyclic aliphatic acids. 3,449,368, 6-10-69, Cl. 260-332.2

Shen, Tsung-Ying: *See—*
Dorn, Conrad P.; and Shen, Tsung-Ying,3,457,300.
Shunk, Clifford H.; and Shen, Tsung-Ying,3,466,377.

Shenandoah Manufacturing Company, Inc.: *See—*
Christophel, Reuben L., 3,420,613.

Shenango Furnace Company, The: *See—*
Smith, Walter W.; Longacher, Kenneth E.; and Zollar, Herbert H., 3,430,681.

Shenberger, Robert E., to Rheem Manufacturing Company. Oil fired conversion assembly. 3,448,736, 6-10-69, Cl. 126-116.

Shenfeld, Richard: *See—*
Laden, Max H.; and Shenfeld, Richard,3,429,828.

Sheng, Alfredo S., to Radio Corporation of America. Logic circuit. 3,430,071, 2-25-69, Cl. 307-247.

Sheng, Henry P.; and Wooten, Frank Thomas, to Corning Glass Works. Method and apparatus for the continuous doping of semiconductor materials. 3,473,510, 10-21-69, Cl. 118-49.5

Sheng, Henry P.: *See—*
Sliepcevich, Cedomir M.; and Sheng, Henry P.,3,471,018.

Sheng, Hung Tao. Artist's palette. 3,428,167, 2-18-69, Cl. 206-1.7

Sheng, Ming Nan: *See—*
Baker, Thomas Nelson, III; Michalski, Conrad; Sheng, Ming Nan; and Zajacek, John G.,3,480,519.

Sheng, Ming Nan; and Zajacek, John G., to Atlantic Richfield Company. Molybdenum-containing catalyst and method for the preparation thereof. 3,434,975, 3-25-69, Cl. 252-431.

Sheng, Ming Nan; and Zajacek, John G., to Atlantic Richfield Company. Molybdenum-containing epoxidation catalyst and method of making same. 3,453,218, 7-1-69, Cl. 252-431.
Shenk, Edwin K., to DASA Corporation, mesne. Tone signal repertory dialer. 3,430,004, 2-25-69, Cl. 179-90.
Shenker, Henry; Moore, William J.; and Swiggard, Edward M., to United States of America, Navy. Beryllium doped germanium photoconductive detector. 3,457,409, 7-22-69, Cl. 250-83.3
Shenker, Marvin; La Russa, Joseph; and Nershi, George Thomas, to Farrand Optical Co., Inc. Wide field optical viewer with concave mirror eyepiece. 3,432,219, 3-11-69, Cl. 350-29.
Shennan, John Vincent: *See*—
D'Eye, Royston Walter Mastin; and Shennan, John Vincent,3,463,702.
Shepard, Alvin F., to Hooker Chemical Corporation. 3,5-Dicyclohexyl phenol. 3,444,246, 5-13-69, Cl. 260-619.
Shepard, Alvin F.; and Dannels, Bobby F., to Hooker Chemical Corporation. Aromatic polymers which are prepared by reacting an ortho phenolic novolak with boron compounds. 3,487,045, 12-30-69, Cl. 260-50.
Shepard, Alvin F.; and Mc Naughtan, Thomas J., to Hooker Chemical Corporation. Phenol condensation process comprising reacting anhydrous phenol and an alkali catalyst at a temperature of al least 130° C, and then slowly adding aldehyde. 3,425,989, 2-4-69, Cl. 260-55.
Shepard, Alvin F.; Zimmer, William F.; and Ouderkirk, John T., to Hooker Chemical Corporation. Unsaturated polyesters cross-linked by diels-alder reaction. 3,458,460, 7-29-69, Cl. 260-22.
Shepard, Arthur P.: *See*—
Dittrich, Ferdinand J.; and Shepard, Arthur P.,3,436,248.
Shepard, George A.; and Brooker, Carl F., to Republic Steel Corporation. Zinc-coated steel with vapor-deposited aluminum overlay and method of producing same. 3,438,754, 4-15-69, Cl. 29-183.5
Shepard, Jack W.: *See*—
Schwarz, William W.; and Shepard, Jack W.,3,423,931.
Shepard, John C.: *See*—
Hardy, William C.; and Shepard, John C.,3,452,816.
Shepard, Joseph E.: *See*—
May, Gordon H.; and Shepard, Joseph E.,3,441,188.
Shepard, Joseph W.; and Shely, Benjamin L., to Minnesota Mining and Manufacturing Company. Radiation-sensitive system. 3,429,706, 2-25-69, Cl. 96-64.
Shepard, Mark, to Key Pharmaceuticals, Inc. Delayed and sustained release type pharmaceutical preparation. 3,432,593, 3-11-69, Cl. 424-20.
Sheperd, William F., Company: *See*—
Rowekamp, William H.; and Laug, Charles J., 3,485,334.
Shephard, Basil R.: *See*—
Abbott, Terence A.; Clachan, Margaret L.; Kennedy, David Rankine; McIntyre, Ian S.; and Shephard, Basil R.,3,447,947.
Clachan, Margaret L.; McGrail, Patrick Terrence; and Shephard, Basil R.,3,446,651.
Clachan, Margaret L.; McGrail, Patrick T.; Turner, Richard G.; and Shephard, Basil R.,3,475,203.
Shephard, Basil S.: *See*—
Rushing, Frank C.; Murphy, Bernard J., Jr.; Hauser, Ralph I.; and Shephard, Basil S.,3,474,976.
Shephard, Harry D., Jr.; and Griffiths, Norman J., deceased. Foseco, Inc., mesne Ingot mold with opposed exothermic sideboards. 3,432,138, 3-11-69, Cl. 249-106.
Shepheard, Robert G.: *See*—
Castrucci, Paul P.; Collins, Robert H.; and Shepheard, Robert G.,3,480,841.
Shepheard, Wilson C. Rack rail aircraft moving locomotive. 3,459,134, 8-5-69, Cl. 104-1.
Shepherd, Alexander Turnbull; and McLaren, Ronald Robert, to Ferranti Limited. Apparatus for determining the extent and sense of the movement of a cyclic pattern. 3,449,743, 6-10-69, Cl. 340-347.
Shepherd, Bob G., to Columbia Products Company. Clamp for securing a fishing rod and reel to a handle. 3,426,466, 2-11-69, Cl. 43-22.
Shepherd, Charles E. Continuous hinge. 3,441,975, 5-6-69, Cl. 16-150.
Shepherd, Eric James, to Monsanto Chemicals Limited. Process for the production of refractory shell molds. 3,455,368, 7-15-69, Cl. 164-16.
Shepherd, Freeman D., Jr., to United States of America, Air Force. Method of making an Esaki means for obtaining high current gain factor. 3,482,306, 12-9-69, Cl. 29-587.
Shepherd, George E., to Royal Mc Bee (Canada) Limited, mesne. Drive means for feeding and moistening means in address printing machines. 3,420,162, 1-7-69, Cl. 101-53.
Shepherd, Henry. Controlled rotation heel for footwear. 3,477,150, 11-11-69, Cl. 36-39.
Shepherd, John A.: *See*—
Spiegel, Milton; and Shepherd, John A.,3,457,167.
Shepherd, John Michael: *See*—
Makeham, Sam Robert; Benyon, John; and Shepherd, John Michael,3,455,095.
Shepherd, John M.; Copple, Christopher J.; and Tattersall, David, to T.M.M. (Research) Limited. Open end spinning apparatus. 3,481,129, 12-2-69, Cl. 57-58.89
Shepherd, Lawrence H., Jr., to Ethyl Corporation. Complex compounds of haloberyllium hydride with tertiary amines. 3,483,219, 12-9-69, Cl. 260-326.8
Shepherd, Norman Willie: *See*—
Palfreyman, Jack; and Shepherd, Norman Willie,3,424,434.
Palfreyman, Jack; and Shepherd, Norman Willie,3,456,917.
Shepherd, Peter Scott: *See*—
Shepherd, Thomas Cropper Ryley, 3,463,405.
Shepherd, Richard, 3rd: *See*—
Langtry, Robert W.; Shepherd, Richard, 3rd; and Clark, Earl A.,3,447,381.
Shepherd, Robert C.: *See*—
Mesek, Frederick K.; and Shepherd, Robert C.,3,483,051.
Shepherd, Robert Gordon: *See*—
Lewis, Benjamin Arthur; Sassiver, Martin Leon; and Shepherd, Robert Gordon,3,459,747.
Wilkinson, Raymond George; and Shepherd, Robert Gordon,3,463,861.
Shepherd, Thomas Cropper Ryley, to Shepherd, Peter Scott. Material comminution apparatus. 3,463,405, 8-26-69, Cl. 241-36.
Shepherd, Thomas H., to National Patent Development Corporation. Bandage containing absorbed therapeutic materials. 3,428,043, 2-18-69, Cl. 128-268.
Shepherd, Thomas H.; and Gould, Francis E., to National Patent Development Corporation. Tobacco smoke filters. 3,470,883, 10-7-69, Cl. 131-10.
Shepherd, Thomas L., to Air Reduction Company, Incorporated. Method and apparatus for the production of carbon black. 3,477,816, 11-11-69, Cl. 23-209.4
Shepherd, William T., to Texaco Development Corporation. Lubricating oil composition. 3,458,443, 7-29-69, Cl. 252-49.8
Shepherd, William T., to Texaco Inc. Lubricating oil composition. 3,459,660, 8-5-69, Cl. 252-37.2
Shepherd, William T.; Platte, Howard J.; and Gonzalez, Federico P., to Texaco Inc. Rust inhibiting composition. 3,458,444, 7-29-69, Cl. 252-51.5
Shepler, Edward E.: *See*—
Gaudelli, Edmond M.; and Shepler, Edward E.,3,426,122.
Sheppard, Charles W., to Westinghouse Air Brake Company. Combined anti-slip and anti-spin control for vehicle wheels. 3,482,887, 12-9-69, Cl. 303-21.
Sheppard, Chester Stephen: *See*—
MacLeavy, Ronald Edward; and Sheppard, Chester Stephen,3,474,085.
Sheppard, William L. Crankcase breather system. 3,455,285, 7-15-69, Cl. 123-119.
Sheppard, William L. Speed governing system. 3,474,684, 10-28-69, Cl. 74-405.
Sheppard, William M.: *See*—
McKinney, Carlton B.; and Sheppard, William M.,3,463,012.
Sheps, Martin I.; Beckering, Jacobus J.; and Bednarski, Thaddeus E., to Black and Decker Manufacturing Company, The. Portable electric drill. 3,432,703, 3-11-69, Cl. 310-50.
Sher, Arden, to Varian Associates. Gas laser discharge tube having insulator shields. 3,452,295, 6-24-69, Cl. 331-94.5
Sher, Neil C., to Honeywell Inc. Control apparatus. 3,435,837, 4-1-69, Cl. 137-81.5
Sher, Neil C.; and Zabsky, John M., to Honeywell Inc. Control apparatus. 3,474,814, 10-28-69, Cl. 137-81.5
Sher, Neil C.: *See*—
Kallevig, John A.; and Sher, Neil C.,3,462,014.
Morton, Richard C.; and Sher, Neil C.,3,478,731.
Reilly, Richard J.; and Sher, Neil C.,3,481,351.
Sherbeck, Leander Adair: *See*—
Ahles, Lavern James; and Sherbeck, Leander Adair,3,426,632.
Sherbert, Thomas L.; and Sherbert, Tillison M., to D. C. Transit System, Inc. Passenger vehicles. 3,455,597, 7-15-69, Cl. 296-64.
Sherbert, Tillison M.: *See*—
Sherbert, Thomas L.; and Sherbert, Tillison M.,3,455,597.
Sherbinsky, Mark, III; and Lane, Millard J., to International Harvester Company. Internal combustion engine valve spring arrangement. 3,482,555, 12-9-69, Cl. 123-90.
Sherbondy, Frank Y. Container for dispensing pills or the like. 3,420,408, 1-7-69, Cl. 221-288.
Sherburn, Peter Eugene, to Fram Corporation, mesne. Oil bath air cleaner. 3,421,294, 1-14-69, Cl. 55-237.
Sherburne, Edwin Collier, to Atlas Chemical Industries, Inc. Antistatic materials. 3,468,869, 9-23-69, Cl. 260-94.9
Sherer, David L., to Celanese Corporation. Composite nylon continuous filament yarns. 3,429,117, 2-25-69, Cl. 57-140.
Sherer, Jimmie B.: *See*—
Gleim, Paul S.; and Sherer, Jimmie B.,3,456,616.
Sherer, Thomas L.: *See*—
Flowers, Ralph G.; and Sherer, Thomas L.,3,468,852.
Sherer, Thomas L.; and Flowers, Ralph G., to General Electric Company. Polyamide-imides and precursors thereof. 3,471,444, 10-7-69, Cl. 260-65.

Sherick, John P.: *See—*
Parker, Arthur H.; and Sherick, John P.,3,475,228.
Sheridan, David S.: *See—*
Alley, Ralph D.; and Sheridan, David S.,3,459,189.
Sheridan, Leslie M. Adjustable turn signal actuator. 3,464,288, 9-2-69, Cl. 74-525.
Sheridan, Phillip Robert: *See—*
Bentham, Frederick Percy; and Sheridan, Phillip Robert,3,448,338.
Sheridan, Vernon Arthur. Chair for physically handicapped persons. 3,479,086, 11-18-69, Cl. 297-330.
Sherk, Fred T.; and Hutto, John F., to Phillips Petroleum Company. Process for producing cyclohexane. 3,420,908, 1-7-69, Cl. 260-667.
Sherliker, Francis Raymond: *See—*
Jackson, John Brian; Sherliker, Francis Raymond; and Long, Hamish Arthur,3,479,318.
Sherlock, James F.; and Rankin, Kenneth Forbes, to Automatic Telephone & Electric Company Limited. Magnetic core matrix data storage devices. 3,440,624, 4-22-69, Cl. 340-174.
Sherlock, Margaret H., to Schering Corporation. 3,4-Dihydro quinazolines and method for preparation thereof. 3,466,284, 9-9-69, Cl. 260-251.
Sherlock, Margaret H., to Schering Corporation. Glyceryl esters of α-(1-aroyl-3-indolyl) alkanoic acids. 3,468,907, 9-23-69, Cl. 260-326.12
Sherlock, Margaret H., to Schering Corporation. Glyceryl 2-(X,Y,Z-substituted anilino) nicotinates. 3,478,040, 11-11-69, Cl. 260-295.5
Sherman & Reilly, Inc.: *See—*
Reilly, Frank Ward; and Bozeman, Hoyt William, 3,479,014.
Sherman, Alan E., to Wenzel, H., Tent & Duck Company. End opening carton for tent equipment. 3,471,007, 10-7-69, Cl. 206-45.14
Sherman, Albert H.: *See—*
LeMaistre, John W.; and Sherman, Albert H.,3,427,355.
Sherman, Albert; and McNamara, William A., Jr., to United States of America , Air Force. Multi-apertured magnetic memory element. 3,432,824, 3-11-69, Cl. 340-174.
Sherman, Alicia. Garment fastener. 3,439,389, 4-22-69, Cl. 24-201.
Sherman, Arthur Tillman; and Miller, Robert Harrison, to Du Pont de Nemours, E. I., and Company. Group training and educational apparatus. 3,421,232, 1-14-69, Cl. 35-13.
Sherman Car Wash Equipment Company: *See—*
Beer, Carl C., 3,428,982.
Enning, Joseph H., 3,455,250.
Hurwitz, Paul D., 3,442,027.
Smith, Courtland N., Jr.; and Knight, Charles W., 3,445,286.
Trimble, Donald D., 3,442,476.
Sherman, Earle C.: *See—*
Graser, Earl J.; and Sherman, Earle C.,3,451,543.
Sherman, Edward: *See—*
Dunlop, Andrew P.; and Sherman, Edward,3,454,652.
Sherman, George O., Jr., to Salvajor Company, The. Waste disposer. 3,436,027, 4-1-69, Cl. 241-46.08
Sherman, H. B., Manufacturing Company: *See—*
Turner, George L.; Johnson, Gerould A.; Disbrow, Richard A.; and Nestell, Donald E., 3,432,102.
Turner, George L.; Johnson, Gerould A.; and Disbrow, Richard A., 3,448,928.
Sherman, Harold: *See—*
Locke, Stanley; Sherman, Harold; and Wahl, John S.,3,483,376.
Sherman, Herbert. Apparatus for computation particularly adapted for producing a measure of transit time and the like. 3,433,935, 3-18-69, Cl. 235-183.
Sherman, Jack: *See—*
Silver, Wallace E.; and Sherman, Jack,3,457,329.
Sherman, John D.: *See—*
Ching, Wallace K. L.; Cottrell, James E., Jr.; Sherman, John D.; and Weinmann, Helmut T.,3,484,555.
Sherman, Michael, to Singer-General Precision, Inc. Fast recovery read amplifier. 3,444,473, 5-13-69, Cl. 330-30.
Sherman, Michael, to Singer-General Precision, Inc. Bit ring counter with bit marker. 3,469,110, 9-23-69, Cl. 307-223.
Sherman, Patsy O., to Minnesota Mining and Manufacturing Company. Transparent coated optical element. 3,458,348, 7-29-69, Cl. 117-138.8
Sherman, Philip B.: *See—*
Davies, James A.; and Sherman, Philip B.,3,476,681.
Sherman, Philip E. Wooden dual panel sound insulating structures. 3,462,899, 8-26-69, Cl. 52-309.
Sherman, Robert, to United States of America, Navy, mesne. Seal for use in cylindrical pressure and vacuum vessels. 3,458,081, 7-29-69, Cl. 220-46.
Sherman, Robert; Babic, George M.; and Posnansky, Hernan A., to United Aircraft Corporation. Redundant control mechanism. 3,464,319, 9-2-69, Cl. 91-411.
Sherman, Roger M.: *See—*
Achelis, Frederic; Brown, Roy J.; Sherman, Roger M.; and Bibb, William M.,3,461,750.
Sherman, Roger M. Corrosion prevention device for irrigation pipe. 3,445,370, 5-20-69, Cl. 204-197.
Sherman, T. Jefferson: *See—*
Faul, Thomas L.; Sherman, T. Jefferson; and Wittholz, Charles W.,3,470,839.
Sherman, William R.: *See—*
Erspamer, August S.; and Sherman, William R.,3,448,529.
Sherper, David. Chemical dispersion device for swimming pools. 3,426,901, 2-11-69, Cl. 210-169.
Sherr, Allan Ellis: *See—*
Epstein, Martin; Buckler, Sheldon A.; Sherr, Allan Ellis; and Gillham, Helen Currier,3,459,833.
Gillham, Helen Currier; and Sherr, Allan Ellis,3,431,324.
Klein, Harvey Gerald; and Sherr, Allan Ellis,3,468,982.
Mosby, William Lindsay; Gillham, Helen Currier; and Sherr, Allan Ellis,3,439,005.
Sherrill, Clark A.; and Barnette, Lynn M. Vacuum type street cleaner. 3,460,186, 8-12-69, Cl. 15-340.
Sherrill, Dana D. Guard cover for valve handwheels. 3,476,288, 11-4-69, Cl. 220-85.
Sherrill, Joseph H., to Reynolds, R. J., Tobacco Company. Cigarette packaging apparatus. 3,426,503, 2-11-69, Cl. 53-124.
Sherrill, Joseph H.; and Pinkham, Jesse R., to Reynolds, R. J., Tobacco Company. Tubular frame package and blank therefor. 3,446,413, 5-27-69, Cl. 229-23.
Sherrill, Joseph H.; and Pinkham, Jesse R., to Reynolds, R. J., Tobacco Company. Packaging method. 3,481,098, 12-2-69, Cl. 53-14.
Sherrill, Joseph H.: *See—*
Pinkham, Jesse R.; and Sherrill, Joseph H.,3,464,421.
Sherrill, Van D., to Venango Engineering Co. Apparatus for folding fabric. 3,423,083, 1-21-69, Cl. 270-69.
Sherrington, Leonard George; and Hewitt, James Maurice, to Thorium Limited. Separation of rare earth elements. 3,453,069, 7-1-69, Cl. 23-22.
Sherritt Gordon Mines Limited: *See—*
Fraser, Robert William; Kushnir, Bud William; and Weizenbach, Bauke, 3,454,431.
Meddings, Basil; Weizenbach, Bauke; Evans, David John Ivor; and Mackiw, Vladimir Nicolaus, 3,469,967.
Vizsolyi, Andrew I.; Armstrong, Anna M.; and Forward, Frank A., 3,459,535.
Sherrod, Buddy L. Steering device. 3,478,527, 11-18-69, Cl. 61-72.4
Sherrod, Eugene L., 1/2 interest to Sherrod, Robert T. Self-clearing rotating conveyor. 3,465,685, 9-9-69, Cl. 103-49.
Sherrod, Lewis B., Jr. Pull hoe. 3,435,903, 4-1-69, Cl. 172-376.
Sherrod, Robert T.: *See—*
Sherrod, Eugene L., 3,465,685.
Sherron, Percival H. Telephone booth. 3,445,969, 5-27-69, Cl. 52-28.
Sherry, Leonard I.: *See—*
Zilko, Jacob P.; and Sherry, Leonard I.,3,422,739.
Sherry, Robert Seymour: *See—*
Lubkin, Samuel; and Sherry, Robert Seymour,3,456,242.
Sherstiuk, Boris, to Automatic Electric Laboratories, Inc. Marking arrangement for a cross-point switching system. 3,480,913, 11-25-69, Cl. 340-166.
Sherwin, Eldon I.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,447,233.
Sherwin, Kenneth Arthur: *See—*
Hall, Raymond Frederick; and Sherwin, Kenneth Arthur,3,431,076.
Sherwin, Martin B.; Fox, Sherwood N.; and Colton, John White, to Halcon International, Inc. Preparation of nitrosyl chloride. 3,443,898, 5-13-69, Cl. 23-203.
Sherwin, Richard N., to Electronic Systems Development, Inc. Information display apparatus. 3,477,782, 11-11-69, Cl. 353-40.
Sherwin-Williams Company, The: *See—*
Abraham, Edward D.; and Ellms, Robert W., 3,461,947.
Beckett, Maurice E., 3,439,004.
Bloom, Thomas A.; and Blue, Vernon W., 3,462,461.
Czarnecki, John D., 3,448,891.
De Vittorio, Joseph M., 3,475,316.
Foster, Harold Marvin, 3,485,923.
Kim, Ki Tae, 3,436,648.
Koch, Russell R., 3,483,152.
McInerney, James R., 3,436,367.
Miller, Leon F.; and Herbruggen, Henry J., 3,439,733.
Miller, Leon F., 3,443,626.
Miller, Leon F.; and Herbruggen, Henry J., 3,470,938.
Sempert, Robert E.; and Harris, Robert R., 3,440,201.
Thomas, Francis H.; Headrick, Hugh M.; and Schulz, Edmund L., 3,422,046.
Tobin, Richard J.; Barkman, Aaron; and Port, Joe E., 3,471,424.
Willis, Victor M., 3,483,009.
Sherwood, Aaron Wiley. Golf putter hand grip. 3,459,426, 8-5-69, Cl. 273-81.

Sherwood, Donald G.; and Rowe, Irwin, to Westinghouse Electric Corporation. Cycle control for linear motion device. 3,486,095, 12-23y69, Cl. 318-135.
Sherwood, Donald G.; and Widmer, Thomas F., to Westinghouse Electric Corporation. Linear motion device. 3,445,689, 5-20-69, Cl. 310-14.
Sherwood, Donald G.: *See—*
Thorel, John P.; and Sherwood, Donald G.,3,445,688.
Thorel, John P.; Downs, Robert E.; and Sherwood, Donald G.,3,445,690.
Thorel, John P.; Lee, Chia Huan; and Sherwood, Donald G.,3,448,303.
Sherwood, Edwin Theodore: *See—*
Ganiere, Herbert Carl; and Sherwood, Edwin Theodore,3,470,356.
Sherwood, James B. Assembly of freight containers and foundation frame for use therewith. 3,480,174, 11-25-69, Cl. 220-1.5
Sherwood, John C. Convertible structural unit for wall and table use and attachments thereto. 3,421,459, 1-14-69, Cl. 108-153.
Sherwood, John F., to Clemar Manufacturing Corporation. Adapter for converting manually operated valves to thermally controlled operation. 3,472,268, 10-14-69, Cl. 137-269.
Sherwood, John F., to Thermal Hydraulics Corporation. Thermal motor with diaphragm molded to piston and chamber. 3,472,478, 10-14-69, Cl. 251-11.
Sherwood, John F., to Clemar Manufacturing Corporation. Power actuated valve with manually adjustable means for volume regulation and for manually operating valve when motor power is inoperative. 3,472,479, 10-14-69, Cl. 251-11.
Sherwood, John F. Magnetic valve. 3,476,355, 11-4-69, Cl. 251-65.
Sherwood, John F.; and Staschke, Marvin, to Thermal Hydraulics Corporation, mesne. Sequentially power actuated plural valves. 3,439,711, 4-22-69, Cl. 137-630.15
Sherwood, John W. C.; and Sie, Swan A., to Chevron Research Company. Selective frequency spectrum reconstruction of seismic traces. 3,454,924, 7-8-69, Cl. 340-15.5
Sherwood, Lionel Forrester, to Murex Limited. Means for reinforcing thin walled tubes. 3,443,600, 5-13-69, Cl. 138-153.
Sherwood, Marvin E. Ball whirling device. 3,455,552, 7-15-69, Cl. 273-26.
Sherwood, Michael: *See—*
Clare, Harold; and Sherwood, Michael,3,455,108.
Sherwood, Noble P.: *See—*
Hunter, Thomas A.; Sherwood, Noble P.; Buske, Gilbert E.; and Guarino, Alexander J.,3,459,269.
Sherwood, Norman W., to McGraw-Edison Company. Drum type humidfier. 3,471,133, 10-7-69, Cl. 261-91.
Sherwood, Richard C.: *See—*
Bobeck, Andrew H.; Gianola, Umberto F.; Sherwood, Richard C.; and Shockley, William,3,460,116.
Sherwood, William George, to Bliss, E. W., Company. Tension reel gripper mechanism. 3,446,450, 5-27-69, Cl. 242-72.1
Sherwood, William Lyon. Connection apparatus for sections of a rotary furnace. 3,477,704, 11-11-69, Cl. 266-11.
Shestag, Lowell Norman; and Kinaga, Thomas, to International Telephone and Telegraph Corporation. Cylindrical array antenna system with electronic scanning. 3,474,446, 10-21-69, Cl. 343-100.
Sheth, Prabhakar Ranchhordas: *See—*
Carstensen, Jens Thuroe; Sheth, Prabhakar Ranchhordas; and Vance, John James,3,487,152.
Sheth, Pravin; and Lachman, Leon, to Ciba Corporation. Tablet coating containing a linear poly- 1,3-β-glucoside. 3,421,920, 1-14-69, Cl. 106-217.
Shettel, Ralph E. Domestic ironing. 3,481,570, 12-2-69, Cl. 248-51.
Shetty, Bola Vithal, to Wallace & Tiernan Inc. 1-Phenylalkyl-tetrahydro-halo-sulfamyl- quinazolinone. 3,452,019, 6-24-69, Cl. 260-256.5
Shetty, Bola Vithal, to Wallace & Tiernan Inc. 2-Alkenyl and 2-alkynyl substituted- tetrahydro-halo-sulfamyl-quinazolinones. 3,452,020, 6-24-69, Cl. 260-256.5
Shetty, Bola Vithal, to Wallace & Tiernan, Inc. 2-Substituted-tetrahydro-halo-sulfamyl-quinazolinones. 3,458,513, 7-29-69, Cl. 260-256.5
Shetty, Bola Vithal; and Thomas Telfer L., to Wallace & Tiernan Inc. (N-nitrosoamino)-guanidines. 3,458,575, 7-29-69, Cl. 260-564.
Shevel, Wilbert L., Jr., to International Business Machines Corporation. Magnetic systems with memory elements consisting of tubular magnetic members arranged in aperture form. 3,427,602, 2-11-69, Cl. 340-174.
Shevelson, Joseph F., to Chicago Roller Skate Company, The. Roller skate. 3,437,344, 4-8-69, Cl. 280-11.2
Shewan, John: *See—*
Coffer, William E.; Miller, Robert L.; and Shewan, John,3,441,929.
Miller, Robert L.; and Shewan, John,3,451,246.
Shewchuck, Thomas: *See—*
Chirota, William W.; Holzwarth, Robert W.; and Shewchuck, Thomas,3,433,916.
Shiah, Chyn duog. Separating primary solvent with a secondary solvent. 3,428,553, 2-18-69, Cl. 208-321.
Shiba Electric Company Limited: *See—*
Nagatsu, Hiroshi; Mimura, Yoshiaki; Izumi, Hideo; and Masuda, Yoshihiro, 3,436,614.
Shiba, Hiroshi: *See—*
Kurosawa, Toshio; and Shiba, Hiroshi,3,423,647.
Tomozawa, Atsusi; and Shiba, Hiroshi,3,471,712.
Yawata, Keiske; Shiraishi, Masamichi; and Shiba, Hiroshi,3,431,144.
Shiba, Kamekichi. Flow meter. 3,429,181, 2-25-69, Cl. 73-228.
Shiba, Keisuke; and Hara, Hikoharu, to Fuji Shashin Film Kabushiki Kaisha. Color photographic silver light-sensitive materials containing bis-pyrazolone couplers. 3,468,666, 9-23-69, Cl. 96-100.
Shiba, Keisuke: *See—*
Yoshida, Makoto; Okumura, Akio; and Shiba, Keisuke,3,459,552.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio,3,469,986.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio,3,481,741.
Shibanov, Vladimir Alexandrovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Shibanuma, Hajime: *See—*
Hirose, Minoru; Kishioka, Taneji; and Shibanuma, Hajime,3,442,186.
Shibasaki, Masataka: *See—*
Shirakura, Toshio; Yoshikawa, Hiroshi; Shibasaki, Masataka; and Hongo, Chikara,3,478,055.
Shibasaki, Yasuichi: *See—*
Kiyohara, Shinzo; and Shibasaki, Yasuichi,3,434,905.
Shibata, Akira, to Chugai Denki Kogyo Kabushiki Kaisha. Heading machine. 3,460,735, 8-12-69, Cl. 228-18.
Shibata, Fukuo. Electric control systems for wound rotor type induction machines. 3,441,822, 4-29-69, Cl. 318-197.
Shibata, Fukuo. Arrangements combining a plurality of prime mover powers. 3,478,619, 11-18-69, Cl. 74-661.
Shibata, Hiromichi: *See—*
Abe, Hidekazu; Shibata, Hiromichi; and Ito, Teruo,3,445,296.
Shibata, Kojiro: *See—*
Gray, Alvin N.; Tamura, Yasuya; Shibata, Kojiro; and Nakayama, Reikichi,3,455,752.
Shibata, Shinichi; Mori, Hideo; and Owada, Atsushi, to Tokyo Shibaura Electric Co., Ltd. Semiconductive electromechanical transducers. 3,432,732, 3-11-69, Cl. 317-235.
Shibata, Syojiro: *See—*
Nakano, Taira; Goto, Asahiko; Yano, Kaname; and Shibata, Syojiro,3,453,704.
Shibata, Tooru: *See—*
Mori, Kan; Kawakami, Masato; Sugihara, Yasumi; Kimura, Shoji; Shibata, Tooru; and Kogure, Akira,3,466,272.
Shibata, Toshio: *See—*
Nakamura, Ken; Shibata, Toshio; and Shimazu, Yasuyuki,3,464,680.
Shibata, Toshio; and Shimazu, Yasuyuki, to Konishiroku Photo Industry Co., Ltd. Heater assembly for copying machines. 3,462,580, 8-19-69, Cl. 219-216.
Shibata, Yoshinobu: *See—*
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro,3,449,196.
Shibatani, Haruo: *See—*
Yamanaka, Toshio; Yuki, Shiro; and Shibatani, Haruo,3,474,154.
Shibaura Kyodo Kogyo Kabushiki Kaisha: *See—*
Sensui, Nobuo; and Honami, Tohei, 3,459,279.
Shibazaki, Tadashi: *See—*
Nakamura, Susumu; and Shibazaki, Tadashi,3,477,976.
Shiber, Evelyn F.; and Shiber, Jerome A., to International Business Machines Corporation. Information compression transference means. 3,476,885, 11-4-69, Cl. 179-100.2
Shiber, Jerome A.: *See—*
Shiber, Evelyn F.; and Shiber, Jerome A.,3,476,885.
Shibukawa, Takashi; and Ozaki, Masahiko, to Japan Exlan Company Limited. Cross-linkable acrylonitrile copolymers and production thereof. 3,483,172, 12-9-69, Cl. 260-80.73
Shibuya, Ikutoshi: *See—*
Tanno, Takeshi; Shibuya, Ikutoshi; and Abo, Masahiro,3,446,872.
Shichman, Daniel: *See—*
Miller, Robert; Farber, Milton; and Shichman, Daniel,3,485,574.
Shick, Philip E., to Owens-Illinois, Inc. Vapor phase corrosion inhibition. 3,433,577, 3-18-69, Cl. 21-2.5

Shick, Philip E., to Owens-Illinois, Inc. Method of impregnating and digesting cellulosic materials in a horizontal digestor. 3,446,698, 5-27-69, Cl. 162-19.
Shick, Philip E.; and Chari, Nallan C. S., to Owens-Illinois, Inc. Method of recovering sodium sulfite from waste sodium sulfite pulping liquor. 3,420,626, 1-7-69, Cl. 23-129.
Shick, Richard L.: *See—*
Trifunovic, Alexander L.; Hodges, James R.; and Shick, Richard L.,3,452,409.
Shida, Yasuo: *See—*
Yamamoto, Naonari; Masuda, Mitsuo; Saikawa, Toshihiko; Tsubota, Akira; Shida, Yasuo; and Matsumura, Toshiji,3,440,688.
Shida, Yukinao; and Nagata, Muneyoshi, to Nippon Electric Company, Limited. Typewriter receiver means. 3,455,428, 7-15-69, Cl. 197-55.
Shieh, Edwin W.: *See—*
Braiman, Jerry; and Shieh, Edwin W.,3,439,233.
Braiman, Jerry; and Shieh, Edwin W.,3,439,234.
Shield Mfg., Inc.: *See—*
Berghash, Robert D., 3,448,738.
Shields, Albert F. Web tension means. 3,438,559, 4-15-69, Cl. 226-195.
Shields, Albert F., to S & S Corrugated Paper Machinery Company, Inc. Method and apparatus for producing corrugated board. 3,468,734, 9-23-69, Cl. 156-210.
Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Heat control for corrugator. 3,472,158, 10-14-69, Cl. 100-93.
Shields, Arthur A.: *See—*
Watts, Claude H.; Shields, Arthur A.; and Krohn, Harvey W.,3,446,266.
Shields, Dean W., to Beloit Corporation. System for debarking logs. 3,435,861, 4-1-69, Cl. 144-208.
Shields, Donald J.: *See—*
Coover, Harry W., Jr.; and Shields, Donald J.,3,449,472.
Shields, Edward Francis: *See—*
Todd, Gordon; and Shields, Edward Francis,3,448,886.
Shields, Eugene H. Swimming pool construction. 3,445,866, 5-27-69, Cl. 4-172.
Shields, Harper, to Alamance Industries, Inc. Rib-knit turned cuff sock. 3,479,843, 11-25-69, Cl. 66--173
Shields, Hugh A.: *See—*
Adlhart, Otto J.; Halpern, Modecai J.; and Shields, Hugh A.,3,453,149.
Shields, Walter A. Apparatus for crimping closure caps to vials. 3,422,598, 1-21-69, Cl. 53-339.
Shields, Walter A. Machine for crimping a ferrule to a hypodermic needle. 3,451,116, 6-24-69, Cl. 29-200.
Shier, George D., to Dow Chemical Company, The. Palladium catalyzed polymerization of allene. 3,442,883, 5-6-69, Cl. 260-94.3
Shier, George D., to Dow Chemical Company, The. Palladium catalyzed reaction of 1,2-alkadienes with 1-alkynes. 3,458,562, 7-29-69, Cl. 260-497.
Shier, Richard K., to General Motors Corporation. Engine having oil pan with deflection vanes. 3,425,514, 2-4-69, Cl. 184-6.
Shiflet, Foey M. Control system for synchronously controlling the opposed rotation of acoustical elements about coincident or parallel axes. 3,447,628, 6-3-69, Cl. 181-30.
Shifrin, Gordon A., to Hughes Aircraft Company. Laser machining apparatus. 3,467,474, 9-16-69, Cl. 356-138.
Shifrin, Gordon A.: *See—*
Mayer, James W.; Bower, Robert W.; and Shifrin, Gordon A.,3,483,443.
Shiga, Akio, to Kyowa Hakko Kogyo Co., Ltd. Taste of food and drinks. 3,420,677, 1-7-69, Cl. 99-140.
Shiga, Akio, to Kyowa Hakko Kogyo Co., Ltd. Taste of seasoning, food and drinks. 3,420,678, 1-7-69, Cl. 99-140.
Shiga, Akio; Furukawa, Hideyuki; and Kanemitsu, Haio, to Kyowa Hako Kogyo Co., Ltd. Process for the synthesis of copolymers of lysine and glutamic or aspartic acid. 3,474,083, 10-21-69, Cl. 260-112.5
Shiga, Koichiro; Yoshida, Motoshige; and Haga, Yoichi, to Tokyo Shibaura Electric Co., Ltd. Triode type X-ray tubes and method and apparatus for irradiating X-rays. 3,452,203, 6-24-69, Cl. 250-99.
Shigaki, Seiichiro, to Nippon Electric Company, Limited. Variable amplification circuit. 3,483,478, 12-9-69, Cl. 330-103.
Shigehiro, Kosuke: *See—*
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,047.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,048.
Shigeru Kawai: *See—*
Kanda, Masao, 3,433,111.
Teranishi, Tsunekazu; and Nakamura, Takeshi, 3,456,063.
Shigeta, Yukio; Okamoto, Kozo; and Terumichi, Jiro. Method of treating diabetes mellitus. 3,426,125, 2-4-69, Cl. 424-94.
Shih, Cheng, to Teledyne, Inc., mesne. Continuous fractional vaporizer for use in a closed loop MPD generation system. 3,457,437, 7-22-69, Cl. 310-11.
Shih, Cheng; Parr, Elmer D.; Stephenson, R. Rhoads; and Talaat, Mostafa E.; said, to Shih, Parr and Stephenson assors. to Martin-Marietta Corporation. Closed system for magnetoplasmadynamic electrical power generation. 3,423,610, 1-21-69, Cl. 310-11.
Shih, Parr and Stephenson assors. to Martin-Marietta Corporation: *See—*
Shih, Cheng; Parr, Elmer D.; Stephenson, R. Rhoads; and Talaat, Mostafa E.; said, 3,423,610.
Shihadeh, Musa M.: *See—*
Zakim, Gerald; and Shihadeh, Musa M.,3,427,178.
Shiina, Fukusaburo. Automatically playing musical instrument. 3,470,784, 10-7-69, Cl. 84-101.
Shikama, Asao: *See—*
Takeuchi, Koichi; Shikama, Asao; and Takeno, Shozo,3,426,310.
Shikoku Kasei Kogyo Company Limited: *See—*
Kagawa, Toshihiro, 3,474,096.
Moriya, Shozaburo, 3,427,176.
Tokimatsu, Kenji; and Yamashita, Hachiro, 3,457,047.
Shiller, Stanley L.: *See—*
Gibson, Edward J.; Shiller, Stanley L.; and Riseman, John H.,3,467,590.
Shiller, Stanley L.; and Frant, Martin S., to Orion Research, Inc. Electrochemical electrode. 3,442,782, 5-6-69, Cl. 204-195.
Shilliday, Douglas J. Standardized orthodontic tooth-positioning and retaining device. 3,478,429, 11-18-69, Cl. 32-14.
Shiloff, Jerome C.: *See—*
Morley, Henry Barclay; Skrzec, Adam E.; and Shiloff, Jerome C.,3,454,359.
Shilov, Alexandr Vladimirovich: *See—*
Telyatnikov, Garry Vladimirovich; Khodorov, Evgeny Iosifovich; Evtjutov, Anatoly Akindinovich; Skopa, Denis Denisovivh; Chervinsky, Anatoly Alexeevich; Shilov, Alexandr Vladimirovich; and Kazantseva, Nina Mikhailovna,3,444,628.
Shima, Hiroshi: *See—*
Izumi, Masahiro; Shima, Hiroshi; Matsumura, Shigeru; and Nobuyuki, Asano,3,453,292.
Shima, Koji: *See—*
Abe, Kazuo; Kokubo, Ryo; Yamada, Yumizuru; Nagakura, Mizuhiko; and Shima, Koji,3,432,274.
Shima, Takeo, to Teijin Limited. Addition of phenol carbonate derivatives in polyester condensation. 3,444,141, 5-13-69, Cl. 260-75.
Shima, Takeo; and Yamada, Hisashi, to Teijin Limited. Addition of diaryl ester to polycondensation step of polyesterification process. 3,433,770, 3-18-69, Cl. 260-75.
Shima, Takesaburo; Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Maszo; and Takimoto, Tetuji, to Sumitomo Chemical Company, Ltd. Process for recovering acrolein by quenching, absorption and plural distillation. 3,433,840, 3-18-69, Cl. 260-604.
Shima, Yoshio: *See—*
Tomita, Tamaki; Shima, Yoshio; and Sugiura, Hiroaki,3,474,315.
Shimabukuro, George T.: *See—*
Jansen, Francis J.; Reynolds, Robert W.; and Shimabukuro, George T.,3,445,587.
Macon, Charles E.; Barton, Robert S.; Quantz, Paul A.; and Shimabukuro, George T.,3,487,375.
Saeger, Waldemar; and Shimabukuro, George T.,3,436,474.
Saeger, Waldemar; Reynolds, Robert W.; Green, Leland Dale; Tanguay, Armand R.; and Shimabukuro, George T.,3,432,613.
Shimabukuro, George T., to Xerox Corporation. Facsimile synchronization loss detector. 3,426,148, 2-4-69, Cl. 178-69.5
Shimabukuro, George T., to Burroughs Corporation. Error correction by retransmission. 3,426,323, 2-4-69, Cl. 340-146.1
Shimabukuro, George T., to Burroughs Corporation. Error correction by retransmission. 3,428,944, 2-18-69, Cl. 340-146.1
Shimabukuro, George T., to Burroughs Corporation. Character oriented data processor with floating decimal point addition. 3,454,750, 7-8-69, Cl. 235-159.
Shimabukuro, George T., to Burroughs Corporation. Error detection by redundancy checks. 3,458,860, 7-29-69, Cl. 340-146.1
Shimabukuro, George T.; and Saeger, Waldemar, to Xerox Corporation. Facsimile alarm circuit. 3,444,315, 5-13-69, Cl. 278-6.
Shimada, Karo. Multiple master cylinder control device. 3,444,691, 5-20-69, Cl. 60-54.6
Shimada, Masatoshi. Receiving system of a selective calling signal and a succeeding speech signal. 3,486,119, 12-23-69, Cl. 325-466.
Shimada, Satoshi; and Nishigaki, Shigeru, to Sony Corporation. Two-way television system utilizing a common synchronization source. 3,472,951, 10-14-69, Cl. 178-6.8
Shimada, Satoshi; and Ohkoshi, Akio, to Sony Corporation. Cathode ray tube. 3,444,421, 5-13-69, Cl. 315-21.
Shimada, Satoshi: *See—*
Ohgoshi, Akio; Shimada, Satoshi; and Miyaoka, Senri,3,467,881.
Shimada, Shoichi: *See—*
Kasahara, Yasuo, 3,453,566.
Shimadzu Seisakusho Ltd.: *See—*
Hashizume, Shojiro, 3,472,595.

Kozawa, Scichibei, 3,420,609.
Kubo, Koichiro; Omori, Fumitaka; and Murai, Munehisa, 3,463,528.
Shimadzu Seisakusko, Ltd.: *See*—
Sakamoto, Yoshio, 3,470,412.
Shimahara, Noboru: *See*—
Hirano, Hiroshi; Masuda, Katsutada; Kawai, Kiyohisa; and Shimahara, Noboru,3,465,044.
Shimai, Junichiro; Matsui, Isamu; Kawamura, Syuzo; and Sakai, Syoji, to Toyo Boseki Kabushiki Kaisha, and Murata Machinery, Ltd. Automatic doffing apparatus of automatic winder. 3,476,328, 11-4-69, Cl. 242-35.5
Shimajiri, Tokiji: *See*—
Inaba, Seiuemon; Shimizu, Kanryo; Shimajiri, Tokiji; and Yoshitake, Norito,3,467,899.
Shimizu, Kanryo; Shimajiri, Tokiji; and Hashimoto, Yoshihiro,3,457,484.
Shimamoto, Takatsugu; Hiyamuda, Shota; Fujita, Shigeru; Nozoe, Akihiko; Yamaguchi, Hiromi; and Eguchi, Jutaro, to Kubota Tekko Kabushiki Kaisha. Harvester combine. 3,423,910, 1-28-69, Cl. 56-20.
Shimamura, Yoshihisa: *See*—
Kishitaka, Hisashi; Shimamura, Yoshihisa; and Takata, Shinya,3,451,769.
Shimanckas, William J., to Outboard Marine Corporation. Marine propulsion lower unit. 3,447,504, 6-3-69, Cl. 115-34.
Shimanckas, William J., to Outboard Marine Corporation. Exhaust system for marine propulsion device. 3,467,051, 9-16-69, Cl. 115-34.
Shimanckas, William J., to Outboard Marine Corporation. Marine propulsion unit with dual drive shafts and dual propeller shafts. 3,478,620, 11-18-69, Cl. 74-665.
Shimano, Keizo, to Shimano Kogyo Kabushiki Kaisha. Multistage sprocket wheel assembly for a bicycle of speed change type. 3,478,614, 11-18-69, Cl. 74-243.
Shimano, Keizo; and Nagano, Masashi, to Shimano Kogyo Kabushiki Kaisha. Device for tensioning the driving chain in a bicycle equipped with coaster brake and exposed speed change mechanism. 3,448,628, 6-10-69, Cl. 74-217.
Shimano Kogyo Kabushiki Kaisha: *See*—
Matsumoto, Shuzo, 3,432,013.
Shimano, Keizo; and Nagano, Masashi, 3,448,628.
Shimano, Keizo, 3,478,614.
Tarutani, Satoshi; Nagano, Masashi; and Nakada, Kikunori, 3,453,899.
Shimasaki, Nobuhiko; and Okuda, Jiro, to Nippon Electric Company, Limited. Time-division telephone exchange system having a variably spaced repetitive sampling rate. 3,478,171, 11-11-69, Cl. 179-15.
Shimasaki, Soichi: *See*—
Ozeki, Saburoji; Kimura, Kenji; Shimasaki, Soichi; Izuhara, Torao; Kadota, Osamu; and Sakurai, Kozi,3,444,806.
Shimasaki, Yoshikatsu: *See*—
Katsuta, Kihei; Shimasaki, Yoshikatsu; Miki, Ikuo; Imamura, Akira; Oota, Hiroshi; and Matsubara, Takeshi,3,426,904.
Katsuta, Kihei; Shimasaki, Yoshikatsu; and Miki, Ikuo,3,452,870.
Shimazono, Hirao: *See*—
Nakajima, Nobuo; Miyata, Koichi; Wada, Shyozo; and Shimazono, Hirao,3,443,969.
Shimazu, Ken-Ichi, to Polychrome Corporation. Photoconductive layer construction. 3,481,271, 12-2-69, Cl. 101-453.
Shimazu, Mitsuyoshi, to Hitachi, Ltd. Freon-rare gas laser. 3,477,038, 11-4-69, Cl. 331-94.5
Shimazu, Yasuyuki: *See*—
Nakamura, Ken; Shibata, Toshio; and Shimazu, Yasuyuki,3,464,680.
Shibata, Toshio; and Shimazu, Yasuyuki,3,462,580.
Shimer, Robert M.: *See*—
Kopelman, Bernard; and Shimer, Robert M.,3,431,540.
Shimiau, Toru: *See*—
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako,3,472,932.
Shimizu, Kanryo: *See*—
Inaba, Seiuemon; Shimizu, Kanryo; Shimajiri, Tokiji; and Yoshitake, Norito,3,467,899.
Shimizu, Kanryo; Shimajiri, Tokiji; and Hashimoto, Yoshihiro, to Fujitsu Limited. Replica producing system utilizing resolvers. 3,457,484, 7-22-69, Cl. 318-162.
Shimizu, Kanryo; Yoshitake, Norito; and Kobayashi, Kengo, to Fujitsu Limited. Step motor drive control circuit. 3,467,902, 9-16-69, Cl. 318-138.
Shimizu, Kazuo: *See*—
Kiuchi, Yuji; and Shimizu, Kazuo,3,466,183.
Kiuchi, Yuji; and Shimizu, Kazuo,3,486,059.
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo, to Furukawa Electric Co., Ltd., and Mitsui Mihonbashi Muromachi. Electrolytic method for preparing manganese dioxide. 3,436,323, 4-1-69, Cl. 204-96.
Shimizu, Makoto; Seki, Masao; and Nishizaki, Shinji, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Roasting process of fine ore and a device therefor. 3,452,968, 7-1-69, Cl. 263-21.
Shimizu, Masanao: *See*—
Minami, Shinsaku; Fujita, Akio; Shimizu, Masanao; and Takase, Yoshiyuki,3,464,982.
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki,3,470,164.
Shimizu, Mineo: *See*—
Fukuda, Nobuo; Shimizu, Mineo; Matsukura, Kameo; and Ando, Narumi,3,420,718.
Shimizu, Shokichi: *See*—
Matsuzaki, Hiroyuki; Shimizu, Shokichi; and Mizuo, Masahiko,3,445,210.
Shimizu, Shotaro; and Watai, Kuniyoshi, to Citizen Tokei Kabushiki Kaisha. Process for treating platinum-iron permanent magnet alloys for improving their magnetic performance. 3,444,012, 5-13-69, Cl. 148-101.
Shimizu, Soichiro. Expansible and contractible connecting device for the road. 3,466,987, 9-16-69, Cl. 94-18.
Shimizu, Yoshio. Three-step folding umbrella. 3,457,931, 7-29-69, Cl. 135-25.
Shimizu, Yoshio. Automatic waterflow apparatus. 3,466,872, 9-16-69, Cl. 61-22.
Shimobayashi, Shoji, to Aisin Seiki Kabushiki Kaisha. Feed mechanism in sewing machine. 3,468,272, 9-23-69, Cl. 112-212.
Shimoda, Keitaro: *See*—
Fujita, Yoshimasa; Nakagawa, Kazumi; Shimoda, Keitaro; and Miyashita, Koji,3,434,276.
Shimoda, Keitaro; and Miyashita, Koji, to Japan Exlan Company Limited. Method for treating acrylic composite fiber. 3,426,117, 2-4-69, Cl. 264-168.
Shimodaira, Takashi: *See*—
Asano, Taisuke; Nakano, Mamoru; Sato, Yasuhiro; Shimodaira, Takashi; and Kamata, Keiko,3,470,238.
Shimomura, Jun: *See*—
Ono, Shigeo; and Shimomura, Jun,3,485,153.
Tsuruoka, Tomio; and Shimomura, Jun,3,478,663.
Shimomura, Kunio: *See*—
Kudo, Shiro; Shimomura, Kunio; and Bamoto, Takeshi,3,474,137.
Nomura, Tatsuo; Shimomura, Kunio; and Miyaji, Masayuki,3,481,836.
Shimono, Tadao. Cleaner for a phonograph record. 3,472,517, 10-14-69, Cl. 274-47.
Shimose, Takaaki; Mori, Kenji; Inoue, Kimio; and Takao, Zenichiro, to Kobe Steel Works, Ltd. Method for forming metal coatings. 3,428,472, 2-18-69, Cl. 117-22.
Shimotsuma, Teruo: *See*—
Ando, Ryo; Shimotsuma, Teruo; and Chihara, Kanichiro,3,477,701.
Shimotsuma, Teruo; Sano, Kazuo; and Kimura, Takaaki, to Nippon Kokan Kabushiki Kaisha. Lance structure for refining metals by oxygen blast. 3,458,134, 7-29-69, Cl. 239-132.3
Shimp, David A.; McWhorter, Wayne F.; and Wolfe, Norman G., to Celanese Coatings Company. Epoxy curing agents comprising a fluoborate salt and a hydrolyzable ester. 3,432,440, 3-11-69, Cl. 252-429.
Shimp, David Alan; and Bobo, William Sheppard, Jr., to Celanese Coatings Company. Epoxy resin-walnut shell aggregate wear resistant floor toppings. 3,481,257, 12-2-69, Cl. 94-3.
Shimpo Kogyo Kabushiki Kaisha: *See*—
Kashihara, Manabu, 3,452,622.
Shimwell, Derrick Walter, to Weaving Research & Textile Commission Agents Ltd. Looms. 3,426,805, 2-11-69, Cl. 139-12.
Shimwell, Derrick Walter, to Weaving Research & Textile Commission Agents Limited. Looms. 3,430,664, 3-4-69, Cl. 139-12.
Shin, Hyunkook, to Du Pont de Nemours, E. I., and Company. Production of nonwoven fabrics with jet stream of polymer solutions. 3,449,809, 6-17-69, Cl. 28-72.2
Shin-Etsu Chemical Industry Co., Ltd.: *See*—
Tamur, Kihachi; Nakajima, Isao; and Inoue, Kaname, 3,461,148.
Shin-Etsu Kagaku Kogyo Kabrishiki Kaisha: *See*—
Ariga, Kinji; Takamizawa, Minoru; Harada, Haruo; Komiya, Akitoshi; Takaya, Seiki; and Umemura, Mitsuo, 3,454,616.
Shinada, Hirotaka: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotaka,3,467,691.
Shinada, Shozo: *See*—
Amano, Minoru; Nishihashi, Toru; Shinada, Shozo; and Ito, Yushi,3,445,283.
Shinada, Wataru: *See*—
Matsuoka, Kyoichiro; and Shinada, Wataru,3,454,268.
Shinagawa, Mutsuaki; and Nezu, Hiroyuki, to Matsushita Electric Industrial Co., Ltd. Electrolytic process of preparing pure hydrogen. 3,458,412, 7-29-69, Cl. 204-129.
Shinagawa, Teruko. Mop holder. 3,447,182, 6-3-69, Cl. 15-147.
Shinal, Joseph B.: *See*—
Glovatsky, Andrew; and Shinal, Joseph B.,3,483,010.

327-709 O-LT - 71 - pt. 1 - 91

Glovatsky, Andrew; Shinal, Joseph B.; and Slobbe, Walter W.,3,440,081.
Shinbaum, Marvin S.: *See*—
Condodina, Arthur C.; Niemkiewicz, Ignatius J.; and Shinbaum, Marvin S.,3,428,275.
Levy, Murray N.; Shinbaum, Marvin S.; and Strance, John S.,3,465,827.
Shinbaum, Marvin S.; and Strance, John S., to Bliss, E. W., Company. Dynamic test machine. 3,430,481, 3-4-69, Cl. 73-12.
Shindelar, Joseph John: *See*—
Schreiner, Lester Dale; and Shindelar, Joseph John,3,462,928.
Shindo, Akio; Fujü, Rokuro; and Souma, Isao, to Agency of Industrial Science and Technology. Producing method of carbon or carbonaceous material. 3,427,120, 2-11-69, Cl. 8-115.5
Shindo, Noboru; Ura, Yasukazu; Mori, Miyako; Hayakawa, Mitsuru; and Ueda, Kunihiro, to Nissan Kagaku Kogyo Kabushiki Kaisha. O-alkyl S-(substituted benzyl) benzene thiophosphonates for controlling fungi. 3,443,011, 5-6-69, Cl. 424-222.
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako, to Nissan Kagaku Kogyo Kabushiki Kaisha. Fungicidal method and composition containing phosphonothionothiolate derivatives. 3,472,932, 10-14-69, Cl. 424-210.
Shindo, Shigenobu, to Nippon Engineering Co., Inc.,and Nippon Kokan Kabushiki Kaisha. Apparatus for adjusting a tilt-furnace. 3,467,369, 9-16-69, Cl. 266-36.
Shindo, Yasuhiro: *See*—
Hasegawa, Takeshi; and Shindo, Yasuhiro,3,475,211.
Shine, Dennis F., to Baxter Laboratories, Inc. Convertible container and blank therefor. 3,474,949, 10-28-69, Cl. 229-16.
Shine, Dennis F., to Baxter Laboratories, Inc. Reclosed package. 3,480,172, 11-25-69, Cl. 215-46.
Shiner, William H., to American Optical Corporation, mesne. Laser apparatus and glass composition. 3,473,144, 10-14-69, Cl. 331-94.5
Shingu, Haruo; Hisazumi, Makoto; and Hisamoto, Iwao, to Daikin Kogyo Co., Ltd. Process for the manufacture of hexafluoropropene. 3,446,858, 5-27-69, Cl. 260-653.3
Shingu Shoko, Ltd.: *See*—
Ishizaki, Kan; and Noto, Hajime, 3,430,343.
Shinichi Hayashi & Kabushiki Kaisha Suwa Seikosha: *See*—
Hayashi, Shinichi; and Yamamoto, Masao, 3,458,409.
Shinkai, Akihiro; Fujiura, Masumi; and Yonezawa, Tooru, to Toyo Rayon Kabushiki Kaisha. Spinning pack assembly for manufacturing composite filaments. 3,458,900, 8-5-69, Cl. 18-8.
Shinkawa, Toshikazu: *See*—
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu,3,431,949.
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu,3,457,960.
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu,3,461,917.
Shinko Electric Co., Ltd.: *See*—
Makino, Shinobu, 3,479,542.
Shinmyo, Kyozo: *See*—
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi,3,459,538.
Shinn, Byron H.; and Todd, Herbert E., to United Aircraft Corporation. Process for preparing polytetrafluoroethylene gas- kets. 3,432,587, 3-11-69, Cl. 264-120.
Shinn, Byron J.: *See*—
Chamberlain, Billy S.; Shinn, Byron J.; and Sunderland, Luther D.,3,420,993.
Shinoda, Hirotaka: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori,3,462,533.
Shinoda, Kenichi: *See*—
Muraki, Ichiro; Tsuchida, Takashi; Shinoda, Kenichi; and Maruyam, Shoji,3,442,716.
Shinoda, Masaichi, to Fujitsu, Limited. Method of producing a variable capacitance diode. 3,436,280, 4-1-69, Cl. 148-178.
Shinoda, Masaichi, to Fujitsu Limited. Gunn-effect oscillator. 3,439,290, 4-15-69, Cl. 331-107.
Shinoda, Ted Y. Self-feeding cigarette case. 3,472,362, 10-14-69, Cl. 206-41.4
Shinogi & Co., Ltd.: *See*—
Narisada, Masayuki, 3,478,150.
Shinohara, Masao, to Nippon Electric Company Limited. Method for measuring characteristics employing an A.C. signal responsive to impedance change for fixing the measured value. 3,466,546, 9-9-69, Cl. 324-158.
Shinohara, Shinitsu, to Kabushiki Kaisha Tadano Tekkosho. Boom in a truck-crane. 3,471,034, 10-7-69, Cl. 212-55.
Shinohara, Shinitsu; and Hanada, Masatosi, to Kabushiki Kaisha Tadano Tekkosho. Expansion means of treble booms for use with a crane truck. 3,468,431, 9-23-69, Cl. 212-55.
Shinohara, Takeo: *See*—
Takamura, Masao; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisahide; and Mitsuhashi, Sadayuki,3,487,344.
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki,3,464,039.
Shinomiya, Hiroaki: *See*—
Hayashi, Shigeki; Shinomiya, Hiroaki; and Kobayashi, Hideaki,3,482,535.
Shinozawa, Tetsuichi: *See*—
Ueno, Kisaburo; Hirose, Akira; and Shinozawa, Tetsuichi,3,482,957.
Shinyei Co., Incorporated: *See*—
Fukui, Katuyuki, 3,471,378.
Shiomi, Hajime; and Hashimoto, Kazuo, to Kishaseizo Kabushiki Kaisha, and Japan National Railways. Grinding machine for railroad cars. 3,455,065, 7-15-69, Cl. 51-104.
Shiomi, Kozo. Protective device for a series condenser. 3,471,748, 10-7-69, Cl. 317-12.
Shionogi & Co., Ltd.: *See*—
Goshima, Kazuaki; and Tokuyama, Kanji, 3,451,993.
Kawasaki, Toshio, 3,420,740.
Kitahonoki, Keizo; and Kido, Ryonosuke, 3,448,151.
Komeno, Taichira, 3,422,192.
Nagata, Wataru; and Itazaki, Hiroshi, 3,429,876.
Nagata, Wataru, 3,444,161.
Nagata, Wataru; Terasawa, Tadao; and Sugasawa, Tsutomu, 3,471,565.
Nakagawa, Kunio; and Nakata, Tadashi, 3,427,290.
Nakagawa, Kunio; and Nakata, Tadashi, 3,429,934.
Otsu, Takayuki; and Nakata, Tadashi, 3,474,461.
Suminoto, Shinzaburo; Tokuyama, Kanji; Fujimoto, Nanabu; and Maeda, Takashi, 3,455,925.
Takamizawa, Akira; and Hamashima, Yoshio, 3,454,576.
Takamizawa, Akira, 3,478,031.
Tanaka, Hozumi; Hanabusa, Minoru; Goshima, Kazuaki; Unno, Yutaka; and Kajihara, Sadaji, 3,450,505.
Tanida, Hiroshi; and Tsuji, Teruji, 3,445,456.
Tanida, Hiroshi; and Tsuji, Teruji, 3,450,743.
Tanida, Hiroshi; and Muneyuki, Ryonosuke, 3,466,330.
Terakawa, Haruyuki, 3,456,360.
Shiosaki, James T., to Honeywell Inc. Timing circuit employing variable offset linear ramp generating means. 3,454,794, 7-8-69, Cl. 307-293.
Shiota, Philip S.: *See*—
Lin, Hung C.; and Shiota, Philip S.,3,440,502.
Shioya, Koichi: *See*—
Yoshida, Muneo; Inoue, Masaru; Fukunaga, Tsuyoshi; Oguchi, Heikichi; and Shioya, Koichi,3,437,997.
Shioyama, Yutaka: *See*—
Mizuno, Yutaka; Nishihara, Tadashi; Shioyama, Yutaka; Tsutsui, Tsutomu; and Murakami, Keiichi,3,466,311.
Suzuki, Reiichi; Shioyama, Yutaka; and Takubo, Tadashi,3,475,472.
Suzuki, Reiichi; Takubo, Tadashi; Shioyama, Yutaka; Sakamoto, Kazuhiko; and Tahara, Tadasu,3,471,539.
Shipley, Charles A.: *See*—
Frank, Joe; and Shipley, Charles A.,3,421,116.
Shipley, Charles R., Jr., to Shipley Company, Inc. Electroless nickel plating. 3,424,597, 1-28-69, Cl. 106-1.
Shipley, Charles R., Jr.; and Gulla, Michael, to Shipley Company, Inc. Electroless copperplating. 3,457,089, 7-22-69, Cl. 106-1.
Shipley Company, Inc.: *See*—
Dutkewych, Oleh B., 3,475,186.
Gulla, Michael, 3,420,680.
Shipley, Charles R., Jr., 3,424,597.
Shipley, Charles R., Jr.; and Gulla, Michael, 3,457,089.
Shipley, Darrell R.; and Rassas, Waldo E. Cigar and cigarette snubber. 3,478,753, 11-18-69, Cl. 131-235.
Shipman, George, to Kaiser Steel Corporation. Seal device. 3,447,843, 6-3-69, Cl. 308-36.4
Shipman, Lottie: *See*—
Newman, Ralph P., 3,481,064.
Shipowners Refrigerated Cargo Research Association: *See*—
Munton, Rupert, 3,463,516.
Pearson, Kenneth White, 3,473,828.
Roberts, Edmund G. Russell, 3,486,553.
Shippee, Fred Boswell; and Perkins, Guy Emmanuel, to Leesona Corporation. Method for producing textured yarns of cellulosic fibres. 3,425,208, 2-4-69, Cl. 57-157.
Shira, Glenn L., to United States of America, Army. Position marker for entanglement in tree tops. 3,442,215, 5-6-69, Cl. 102-90.
Shiraeff, Dimitry Alexis, to GAF Corporation. Solid stabilized hydrogen peroxide compositions. 3,480,557, 11-25-69, Cl. 252-186.
Shirafuji, Ryoko: *See*—
Inaba, Seiuemon; Shirafuji, Ryoko; Kojima, Toshio; and Amemiya, Yoichi,3,469,123.
Shiragaki, Hajime, to Ichitan Fukui. Method of making electric bulbs. 3,460,219, 8-12-69, Cl. 29-25.13
Shirai, Kazunari: *See*—
Irikura, Tsutomu; Sato, Shimao; and Shirai, Kazunari,3,485,838.
Shiraimatsu Shinyaku Kabushiki Kaisha: *See*—
Yamanishi, Yasuhito; and Yamanishi, Yasuhito, 3,445,478.

Shiraishi, Masamichi; and Yamamoto, Hirohiko, to Nippon Electric Company, Limited. Field effect transistor information storage circuit. 3,467,952, 9-16-69, Cl. 340-173.

Shiraishi, Masamichi: *See—*
Yawata, Keiske; Shiraishi, Masamichi; and Shiba, Hiroshi,3,431,144.

Shiraishi, Tokuo, to Nikko Electric Mfg. Co., Ltd. High speed current limiting circuit breaker utilizing electromagnetic repulsion. 3,469,216, 9-23-69, Cl. 335-195.

Shiraiwa, Takao: *See—*
Fujiwara, Shinobu; and Shiraiwa, Takao,3,427,173.
Fujiwara, Shinobu; and Shiraiwa, Takao,3,440,067.

Shirakura, Toshio; Yoshikawa, Hiroshi; Shibasaki, Masataka; and Hongo, Chikara, to Tanabe Seiyaku Co., Ltd. Production of optically active N-acylprolines and prolines. 3,478,055, 11-11-69, Cl. 260-326.3

Shiramoto, Tomizo: *See—*
Fukuda, Masataro; Hirai, Taketsugu; Hino, Takashi; Shiramoto, Tomizo; Sawada, Isoo; and Yanagihara, Nobuyuki,3,443,999.

Shiranezawa, Takao: *See—*
Kondo, Shiro; Shiranezawa, Takao; Iida, Hirohiko; and Takahashi, Masayuki,3,482,389.

Shirasaka, Makoto; Naito, Atsushi; and Tanabe, Katsumi, to Sankyo Company Limited. Method for the production of 3α,5-cyclo-6β, 19-oxido-5α-androstan-17-one. 3,475,275, 10-28-69, Cl. 195-51.

Shirasu, Hirotoshi; Akiyama, Tadahiko; and Arai, Yasumichi, to Hitachi, Ltd. Common control automatic exchange including means for receiving storing and regenerating a selecting signal. 3,445,605, 5-20-69, Cl. 179-18.

Shire, Ralph John: *See—*
Gilbert, Ronald Albert; and Shire, Ralph John,3,483,696.

Shirey, John E., to Horizons Research Incorporated. Photography. 3,445,232, 5-20-69, Cl. 96-90.

Shirey, John E.: *See—*
Wainer, Eugene; and Shirey, John E.,3,481,739.

Shirin, John K.: *See—*
Ely, Robert G., 3,456,810.

Shirk, Harold R.: *See—*
Gibbs, Edward E.; Coggeshall, Almy D.; and Shirk, Harold R.,3,437,859.

Shirk, Robert M., to Air Products and Chemicals, Inc. Reactor for contacting vaporous reactants with fluidized solids. 3,482,946, 12-9-69, Cl. 23-284.

Shirley, Kirk R.: *See—*
Johnston, Norris, 3,437,992.

Shirley, William C.; and Corcoran, John F., to Loftus Engineering Corporation. Industrial furnaces. 3,459,416, 8-5-69, Cl. 266-24.

Shirley, William L.; Lee, Henry L.; and Brantly, Jeff D. Football kicking tee. 3,462,145, 8-19-69, Cl. 273-55.

Shirley, William L.; Lee, Henry L.; and Brantly, Jeff D. Apparatus for practice kicking of football goals. 3,472,511, 10-14-69, Cl. 273-55.

Shirlo, Inc.: *See—*
Ravreby, Fred A.; Palson, Richard C. J.; and Speer, Ralph W., 3,473,177.

Shirode, Katsumi: *See—*
Ohfuka, Toshio; Shirode, Katsumi; and Ichikawa, Yasushi,3,432,482.

Shiroishi, Akihiro: *See—*
Kokubo, Ryo; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko,3,454,571.

Shiroki, Kenichi; and Saito, Seiichi, to Nippon Electric Company, Limited. Flame fusion crystal growing employing vertically displaceable pedestal responsive to temperature. 3,446,602, 5-27-69, Cl. 23-273.

Shirokov, Nikolai Borisovich: *See—*
Olitsky, Vladimir Samsonovich; Mirkin, Anatoly Zakharovich; and Shirokov, Nikolai Borisovich,3,468,439.

Shirouzu, Shunji: *See—*
Miyashiro, Shoichi; and Shirouzu, Shunji,3,453,484.
Miyashiro, Shoichi; and Shirouzu, Shunji,3,484,862.

Shirouzu, Shunzi: *See—*
Miyashiro, Shoichi; and Shirouzu, Shunzi,3,437,867.

Shishido, Kyoji: *See—*
Yamada, Hirosuke; Shishido, Kyoji; Hoshino, Takao; Kobayashi, Seizaburo; and Sato, Isami,3,462,412.

Shiuh, Chung Hsiung, to Johns-Manville Corporation. Method for separating asbestos fibers from foreign solids. 3,424,307, 1-28-69, Cl. 209-2.

Shively, James F.: *See—*
Arfin, Bernard; and Shively, James F.,3,448,326.

Shively, James F.; and Staprans, Armand, to Varian Associates. Coupled cavity high-frequency electron discharge device with means for reducing the Q at undesired regions without overloading the Q in the operating regions. 3,454,817, 7-8-69, Cl. 315-3.5

Shively, Richard P.; and Dickey, David V., to Litton Systems, Inc. Coincident current memory. 3,434,128, 3-18-69, Cl. 340-174.

Shively, Richard P.; and Dickey, David V., to Litton Systems, Inc. Linear select device. 3,469,246, 9-23-69, Cl. 340-174.

Shively, Richard P.; and Sigal, Burton C., to Litton Systems, Inc. Memory of simultaneously storing fixed and electrically alterable information. 3,469,249, 9-23-69, Cl. 340-174.

Shiverdecker, James H.: *See—*
Back, Leonard; and Shiverdecker, James H.,3,483,803.
Nerenberg, Robert W.; and Shiverdecker, James H.,3,451,194.

Shivers, Kenneth P.: *See—*
Whitely, Richard L.; Yaggi, Lawrence A.; Shivers, Kenneth P.; and Tongret, Stewart,3,445,601.

Shkolin, Ilya Dmitrievich: *See—*
Butaev, Filipp Ivanovich; Klimov, Nikolai Semenovich; Pertsev, Alexei Alexandrovich; Stepanov, Nikolai Pavlovich; Shemaev, Alexandr Mikhailovich; and Shkolin, Ilya Dmitrievich,3,437,863.

Shlepakov, Valery Nikolaevich: *See—*
Pokhodnya, Igor Konstantinovich; and Shlepakov, Valery Nikolaevich,3,457,388.

Shlesinger, Bernard Edward, Jr. Programming system-type with selectively changeable information carrying means. 3,424,879, 1-28-69, Cl. 200-61.14

Shlesinger, Bernard Edward, Jr. Leaf type snap acting switch device operated by transfer of energy. 3,424,881, 1-28-69, Cl. 206-67.

Shlesinger, Bernard Edward, Jr. Light responsive crossbar switch having variable intensity control. 3,439,179, 4-15-69, Cl. 250-227.

Shlesinger, Bernard Edward, Jr., to AMP Incorporated. One piece plugboard plug connector. 3,445,930, 5-27-69, Cl. 29-629.

Shlesinger, Bernard Edward, Jr. Polarized magnetic cable switch programming system and apparatus. 3,447,105, 5-27-69, Cl. 335-79.

Shlesinger, Bernard Edward, Jr. Magnetic switching mechanism and method of manu- facture and operation utilizing injection molding techniques. 3,447,108, 5-27-69, Cl. 335-205.

Shlesinger, Bernard Edward, Jr. Magnetic programming switches. 3,447,109, 5-27-69, Cl. 335-205.

Shlesinger, Bernard Edward, Jr. Light sensitive cross-bar switches having a photocell at each cross-point. 3,458,708, 7-29-69, Cl. 250-220.

Shlesinger, Bernard Edward, Jr., to AMP Incorporated. Positive pressure cam type connector assembly and housings therefor. 3,461,258, 8-12-69, Cl. 200-153.

Shmuilov, Nikolai Leonidovich: *See—*
Oskolsky, Asaf Alexandrovich; Ivashkov, Nikolai Melitonovich; Rastorguev, Vladislav Vladimirovich; Shmuilov, Nikolai Leonidovich; and Zhavoronkov, Lev Vasilievich,3,426,717.

Shneider, Harold M., to Honeywell Inc. Print-hammer mount and fabrication method. 3,447,455, 6-3-69, Cl. 101-93.

Shneider, Harold M.: *See—*
Moran, Robert J.; and Shneider, Harold M.,3,420,352.

Shnitzler, Meyer J.: *See—*
Lewiecki, Edward M.; and Shnitzler, Meyer J.,3,428,223.

Sho, Koji, to Nippon Kogaku K.K. Automatic adjustment mechanism for aperture forming blades of a camera. 3,442,194, 5-6-69, Cl. 95-64.

Shobe, Henry E., to Phillips Petroleum Company. Dynamically balanced multi-path liquid- gas contacting. 3,445,094, 5-20-69, Cl. 261-114.

Shobert, Samuel M. Golf club swinging apparatus. 3,444,729, 5-20-69, Cl. 73-100.

Shobert, Samuel M. Golf club shaft and method of forming the same. 3,457,962, 7-29-69, Cl. 138-144.

Shobert, Samuel M. Method of making a braided tubular bearing having a polytetrafluoroethylene liner. 3,458,374, 7-29-69, Cl. 156-149.

Shobert, Samuel M. Method for manufacturing complicated shapes of glass reinforced plastic material. 3,467,742, 9-16-69, Cl. 264-151.

Shoblom, Arvid W.; and Shoblom, Enar E. Centrifuge accessory. 3,468,474, 9-23-69, Cl. 233-27.

Shoblom, Enar E.: *See—*
Shoblom, Arvid W.; and Shoblom, Enar E.,3,468,474.

Shock, D'Arcy A.; and Sudbury, John D., to Continental Oil Company. Underground sealing. 3,436,919, 4-8-69, Cl. 61-0.5

Shock, D'Arcy A., to Continental Oil Company. Submersible barge. 3,453,980, 7-8-69, Cl. 114-235.

Shock, D'Arcy A.:*See—*
Woods, Warren W.; and Shock, D'Arcy A.,3,441,455.

Shockey, Howard J., to Excel Corporation. Method for bedding panels into frames. 3,440,121, 4-22-69, Cl. 156-293.

Shockey, Howard J., to Excel Corporation. Method of bedding panels into frames. 3,440,315, 4-22-69, Cl. 264-261.

Shockey, Howard J., to Excel Corporation. Method for bedding panels into frames. 3,444,023, 5-13-69, Cl. 156-293.

Shockey, Thomas N., to Kaiser Jeep Corporation. One-piece plastic gas tank and fuel level sensing apparatus and method. 3,470,907, 10-7-69, Cl. 137-590.

Shockley, William L., to Collins Radio Company. Selective sputtering rate circuit forming process. 3,436,327, 4-1-69, Cl. 204-192.

Shockley, William: *See—*
Bobeck, Andrew H.; Gianola, Umberto F.; Sherwood, Richard C.; and Shockley, William,3,460,116.

Shockroo, James E.; Lopes, Manuel R.; and McMorrow, Joseph L., to Texas Instruments, Incorporated. Thermally-responsive switch. 3,470,513, 9-30-69, Cl. 337-86.
Shockroo, James E.: *See—*
McMorrow, Joseph L.; and Shockroo, James E.,3,482,146.
Shoda, Koichiro, to Matsushita Electronics Corporation. Method of manufacturing semiconductor devices. 3,436,282, 4-1-69, Cl. 148-187.
Shoe and Allied Trades Research Association: *See—*
Staden, Alfred Alexander, 3,445,873.
Shoe Form Co., Inc.: *See—*
Pachner, Leo C., 3,446,453.
Shoeld, Mark. Storage battery having spiral electrodes with improved active material carrier. 3,472,696, 10-14-69, Cl. 136-13.
Shoemaker, Clarence J.: *See—*
Thomas, Richard Edward; Florence, Robert T.; and Shoemaker, Clarence J.,3,451,143.
Shoemaker, Kerry S., to Gerber Products Company. Apparatus for continuous measurement of liquiform product consistency. 3,465,573, 9-9-69, Cl. 73-54.
Shoemaker, William E., to Beckman Instruments, Inc. High performance circuit instrumentation amplifier with high common mode rejection. 3,453,554, 7-1-69, Cl. 330-30.
Shoemaker, William E.; and Weekes, Barret B., to Beckman Instruments, Inc. Multiple constant current supply. 3,457,493, 7-22-69, Cl. 323-4.
Shoemaker, William E.: *See—*
Fletcher, Taylor C.; and Shoemaker, William E.,3,422,360.
Shoen, Ramon, to Arcoa, Incorporated. Multiphasic screening laboratory for conducting medical examinations. 3,470,871, 10-7-69, Cl. 128-2.
Shoenfeld, Harold; and Walker, Harold. Transparency-viewing apparatus. 3,456,372, 7-22-69, Cl. 40-106.1
Shoffner, Willie M. Countermounted power unit for unloading merchandise cart. 3,450,230, 6-17-69, Cl. 186-1.
Shoffner, Willie M. Merchandise check out system. 3,480,114, 11-25-69, Cl. 186-1.
Shofner, Thomas J. Pocket key holder. 3,455,131, 7-15-69, Cl. 70-456.
Shoh, Andrew, to Branson Instruments, Incorporated. Oscillatory circuit for electro-acoustic converter. 3,432,691, 3-11-69, Cl. 310-8.1
Shoh, Andrew, to Branson Instruments, Incorporated. Electrical switching circuit using series connected transistors. 3,441,875, 4-29-69, Cl. 331-117.
Shoh, Andrew, to Branson Instruments, Incorporated, mesne. Apparatus for limiting the motional amplitude of an ultrasonic transducer. 3,443,130, 5-6-69, Cl. 310-8.1
Shoh, Andrew; and Wilkens, Hans Joachim, to Branson Instruments, Incorporated. Oscillatory circuit for electro-acoustic converter with starting means. 3,469,211, 9-23-69, Cl. 331-116.
Shohet, Herbert N.; Amelio, Armand F.; House, Richard L.; and Kowalonek, John M., to United Aircraft Corporation. Engine inlet air particle separator. 3,449,891, 6-17-69, Cl. 55-306.
Shohji, Senji; Kobayashi, Kazuo; Kuwata, Masanobu; Watanabe, Yutaka; and Hirai, Tadamasa, to Hitachi, Ltd. Semiconductor devices having insulating protective films and sealed with resinous materials. 3,474,301, 10-21-69, Cl. 317-234.
Shoji, Henry Norihiko, to Orenda Limited. Cable reel. 3,430,179, 2-25-69, Cl. 339-5.
Shoji, Kashiide: *See—*
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide,3,437,633.
Shoji, Masahiro: *See—*
Sagara, Toshio; Shoji, Masahiro; and Tsukahara, Hiroshi,3,441,982.
Shoji, Masakazu, to Bell Telephone Laboratories, Incorporated. Circuits employing semiconductive devices character- ized by traveling electric field domains. 3,452,222, 6-24-69, Cl. 307-299.
Shoji, Masakazu, to Bell Telephone Laboratories, Incorporated. Current function generator. 3,462,617, 8-19-69, Cl. 307-260.
Shoji, Osamu; Yokogawa, Kanae; Sunahara, Noriyuki; and Ogata, Loichi, to Dainippon Pharmaceutical Co., Ltd.Process for the preparation of pyridoxal-5'- phosphate. 3,438,860, 4-15-69, Cl. 195-28.
Sholtes, George T., to General Electric Company. Water inlet system for dishwasher. 3,439,688, 4-22-69, Cl. 134-104.
Sholund, Richard J. Auxiliary handle for a shovel. 3,466,078, 9-9-69, Cl. 294-57.
Shomphe, George J., to Sanders Associates, Inc. Method for producing a printed circuit board. 3,483,616, 12-16-69, Cl. 29-625.
Shomphe, George J.; Tabor, Robert W.; and Lalmond, Harold W., to Sanders Associates, Inc. Electrical resistance heating pad. 3,423,574, 1-21-69, Cl. 219-528.
Shonebarger, Francis J., to Anchor Hocking Corporation. High strength ceramic-like article containing alpha quartz as the major crystal phase. 3,485,644, 12-23-69, Cl. 106-39.
Shonin, Leonid Nikolaevich; Konoplev, Jury Sergeevich; Komarov, Jury Alexandrovich; Ivanov, Igor Nikolaevich; Silin, Mikhail Danilovich; Veyalis, Nina Petrovna, and; and Karpinskaya, Vera Borisovna. Flowmeter. 3,443,432, 5-13-69, Cl. 73-194.
Shono, Setsuo: *See—*
Aoki, Setsuo; Shono, Setsuo; Ito, Ryoji; Arao, Yuzuru; and Hukunaga, Masao,3,458,175.
Shontz, Harry E., to NW Controls, Inc. Flexible cable control assembly. 3,443,452, 5-13-69, Cl. 74-502.
Shook, Alvin L. Trotline dispenser. 3,466,785, 9-16-69, Cl. 43-27.4
Shook, Alvin L. Wrench. 3,481,227, 12-2-69, Cl. 81-3.1
Shook, David E., to Murphy Diesel Company. Check valve assembly for engine fuel injectors. 3,439,876, 4-22-69, Cl. 239-88.
Shook, Donald H.: *See—*
Mallory, Edwin E.; and Shook, Donald H.,3,429,765.
Shook, Donald L.: *See—*
Oldenburg, Dorrance; Scheidt, James E.; and Shook, Donald L.,3,483,890.
Shook, Jackson A., to Evans Products Company. Freight bracing device. 3,433,180, 3-18-69, Cl. 105-376.
Shook, Raymond E., Jr.; and Soars, Harold M., Jr., to Sprout Waldron & Company, Inc. Refining plate for high consistency pulp. 3,473,745, 10-21-69, Cl. 241-298.
Shook, William M., to Warner ' Swasey Company, The. Machine with hydraulic boom. 3,481,251, 12-2-69, Cl. 91-411.
Shoono, Masayuki: *See—*
Koda, Kenichi; Sato, Shui; Shoono, Masayuki; and Hori, Haruo,3,457,079.
Shoor, Bernard A., to Endevco Corporation. Transducer. 3,474,526, 10-28-69, Cl. 29-595.
Shopsky, Harvey J.: *See—*
Golden, Robert L.; and Shopsky, Harvey J.,3,425,288.
Shopsky, Harvey J., to Robertshaw Controls Company. Washing machine having door latch control means. 3,451,233, 6-24-69, Cl. 68-12.
Shor, Arthur J.: *See—*
Johnson, James S.; Kraus, Kurt A.; Marcinkowsky, Arthur E.; Phillips, Harold O.; and Shor, Arthur J.,3,449,245.
Shore, Charles: *See—*
Hedge, John A.; Hall, Lewis W., Jr.; and Shore, Charles,3,459,695.
Shore, Daniel B., to International Harvester Company. Forward-reverse drive control providing automatic braking. 3,458,018, 7-29-69, Cl. 192-4.
Shore, Donald Arthur: *See—*
Samways, Bruce; and Shore, Donald Arthur,3,425,185.
Shore, Donald L.; and Warwick, James S., to Sperry Rand Corporation. Continuous bus bar for connector plate back panel machine wiring. 3,470,421, 9-30-69, Cl. 317-101.
Shore Instrument & Mfg., Company, Inc., The: *See—*
Kornblau, Sol, 3,485,091.
Shore, James B., to Schlumberger Technology Corporation. Perforating apparatus. 3,429,384, 2-25-69, Cl. 175-4.6
Shore, James B., to Schlumberger Technology Corporation. Apparatus for discharging fluent substances into well bores. 3,433,302, 3-18-69, Cl. 166-162.
Shore, Paul B. Phonograph record receiving jacket. 3,426,960, 2-11-69, Cl. 229-68.
Shore, Samuel; Muzyczko, Thaddeus; and Martin, Jerome A., to Richardson Company, The. Process for preparing bis(3,5,6-trichloro-2- hydroxyphenyl) methane. 3,426,081, 2-4-69, Cl. 260-619.
Shore, Samuel: *See—*
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A.,3,461,099.
Shore, Sidney X. Retractable marking pens. 3,477,792, 11-11-69, Cl. 401-109.
Shore, William S., to Diamond Shamrock Corporation. Self supporting plastic container and method of making same. 3,434,652, 3-25-69, Cl. 229-52.
Shore, William S., to Diamond Shamrock Corporation. Self-supporting plastic container. 3,462,061, 8-19-69, Cl. 229-7.
Shore, William S., to Diamond Shamrock Corporation. Self supporting plastic container. 3,462,067, 8-19-69, Cl. 229-49.
Shores, Marvin W., to General Dynamics Corporation. Wide angle electronic scan Luneberg antenna. 3,487,413, 12-30-69, Cl. 343-754.
Shorey, Robert C., to Plummer, Walter A. Connector block boot. 3,467,768, 9-16-69, Cl. 174-138.
Shorr, Leonad M.: *See—*
Segall, Jeane; and Shorr, Leonad M.,3,441,501.
Shorr, Leonard Marshall: *See—*
Ben-Moshe, Shemayahu; Shorr, Leonard Marshall; and Sofer, Noah,3,475,401.
Shorr, Leonard Marshall; and Sofer, Noah, to Israel Mining Industries-Institute of Research and Development, and Israel Petrochemical Enterprises Ltd. Chlorination of polyethylene. 3,470,147, 9-30-69, Cl. 260-94.9

Short, Edward Percival: *See—*
Sheasby, Peter Geoffrey; Short, Edward Percival; and Guminski, Roman Dominik,3,468,772.
Short, Frank. Machine for notching pallet stringers. 3,470,924, 10-7-69, Cl. 144-133.
Short, Franklin Willard: *See—*
Scherrer, Robert Allan; and Short, Franklin Willard,3,420,871.
Short, George E., to Searle, G. D., & Co. Inhibition of egg production in pigeons. 3,469,007, 9-23-69, Cl. 424-238.
Short, Herbert Douglass, to Lacal Industries, Limited. Ventilated underground housing for electrical apparatus. 3,420,943, 1-7-69, Cl. 174-16.
Short, James A.: *See—*
Cheney, Lawrence W.; and Short, James A.,3,473,730.
Short, James Harold, to Abbott Laboratories. Substituted sulfanilamides. 3,432,493, 3-11-69, Cl. 260-239.75
Short, James Harold, to Abbott Laboratories. Alkoxy-or alkylthio-alkylene-aminoalkylguanidines. 3,454,640, 7-8-69, Cl. 260-564.
Short, James Harold, to Abbott Laboratories. Benzamide substituted anilino aminopyrimidines. 3,478,030, 11-11-69, Cl. 260-256.4
Short, Joe R., to United States of America, National Aeronautics and Space Administration. Method and device for preventing high voltage arcing in electron beam welding. 3,469,066, 9-23-69, Cl. 219-121.
Short, Joe T., to Callaway Mills Company. Unidirectional braking means for terry loom pile warp let-off mechanism. 3,422,860, 1-21-69, Cl. 139-25.
Short, Joe T., to Callaway Mills Company. Needle device. 3,424,114, 1-28-69, Cl. 112-79.
Short, Joe T., to Callaway Mills Company. Pattern attachment. 3,435,787, 4-1-69, Cl. 112-79.
Short, Joe T., to Callaway Mills Company. Method and apparatus for supplying fluid pressure. 3,447,496, 6-3-69, Cl. 112-79.
Short, Oliver A., to Du Pont de Nemours, E. I., and Company. Nonmigrating solders and printed circuits therefrom. 3,472,653, 10-14-69, Cl. 75-165.
Short, R Stanford: *See—*
Hitt, Otis D.; and Short, R Stanford,3,476,147.
Kiester, George S.; and Short, R Stanford,3,465,646.
Kiester, George S.; and Short, R Stanford,3,477,521.
Short, Richard T.; and Pinnington, Clive, to Shell Oil Company. Method of making fuel cell electrode including resin and resultant product. 3,438,817, 4-15-69, Cl. 136-120.
Short, Robert G.: *See—*
Roth, Claris D.; Short, Robert G.; and Nevin, Charles S.,3,449,318.
Short, Robert J., to Justin Enterprises, Inc. Filament wound element. 3,442,296, 5-6-69, Cl. 138-120.
Short, William H.: *See—*
Pryor, Harry H.; Kessler, Arthur R.; Blacklock, Arthur G.; Neumann, Charles G.; Short, William H.; and Modjeski, Richard N.,3,446,137.
Shortell, Raymond E.: *See—*
Van Horssen, Arden D.; Habig, Wydell W.; Shortell, Raymond E.; and Smiley, George C.,3,480,722.
Shortes, Samuel Ray, to Texas Instruments, Incorporated. Formation of electron barriers on phosphor particles. 3,449,148, 6-10-69, Cl. 117-33.5
Shortes, Samuel R., to Texas Instruments, Incorporated. Color display system. 3,439,217, 4-15-69, Cl. 315-14.
Shortes, Samuel R., to Texas Instruments, Incorporated. Process of coating a semiconductor with a mask and diffusing an impurity therein. 3,450,581, 6-17-69, Cl. 148-187.
Shortlidge, Donald L., to Schick Electric Inc. Brush holding means for electric motor. 3,469,138, 9-23-69, Cl. 310-246.
Shortlidge, Donald L.; and Christensen, James, to Schick Electric Inc. Hair receptacle for electric shaver. 3,421,217, 1-14-69, Cl. 30-41.6
Shostak, Arnold A., to United States of America, Navy. Radiating horn antenna with sound modulated lens. 3,434,138, 3-18-69, Cl. 343-754.
Shotbolt, Keith, to Imperial Chemical Industries, Limited. Textile spindle arrangement. 3,435,604, 4-1-69, Cl. 57-134.
Shotter, Douglas Ralph, to Herbert, Alfred, Limited. Indexing head for a machine tool. 3,450,002, 6-17-69, Cl. 90-16.
Shotton, James A., to Phillips Petroleum Company. Pest or rodent repellent composition and article treated thereby. 3,426,133, 2-4-69, Cl. 424-300.
Shotton, James A., to Phillips Petroleum Company. Rodent repellent coating. 3,434,995, 3-25-69, Cl. 260-31.2
Shotton, Victor L. Irrigation pipe with erosion preventing outlets. 3,429,125, 2-25-69, Cl. 61-12.
Shoudy, Albert A., Jr., to Atomic Power Development Associates, Inc. Method of making nuclear reactor fuel elements. 3,460,236, 8-12-69, Cl. 29-471.1
Shoulders, Kenneth R., to Stanford Research Institute. Data storage and logic device. 3,430,213, 2-25-69, Cl. 340-173.
Shoulders, Kenneth R., to Stanford Research Institute. Thin wafer-channel multiplier. 3,458,745, 7-29-69, Cl. 313-104.
Shoulders, Kenneth R.; and Heynick, Louis N., to Standard Research Institute. Needle-type electron source. 3,453,478, 7-1-69, Cl. 313-309.
Shoup, Ransom F., to Shoup Voting Machine Corporation, The. Means for adjusting the interlock of a voting machine. 3,436,011, 4-1-69, Cl. 235-51.
Shoup, Robert D.: *See—*
Fitch, Frederick T.; and Shoup, Robert D.,3,444,088.
Fitch, Frederick T.; and Shoup, Robert D.,3,453,216.
Shoup, Robert W.; White, Roger F.; and Weller, Albert E., to Autographic Business Forms, Inc. Bed and platen numbering machine for feeding, printing and severing associated webs. 3,464,350, 9-2-69, Cl. 101-78.
Shoup Voting Machine Corporation, The: *See—*
Shoup, Ransom F., 3,436,011.
Shoushanian, Hrant H., to Technic, Inc. Gold plating bath and process. 3,475,292, 10-28-69, Cl. 204-44.
Showa Aluminum Kabushiki Kaisha: *See—*
Yoshihisa, Koichi, 3,421,598.
Showa Denko Kabushiki Kaisha: *See—*
Ikeda, Osamu; Ayaki, Kazuo; and Ohya, Haruhiko, 3,472,891.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka, 3,435,067.
Kitabatake, Michitoshi; Ito, Masatomo; Ikeda, Takashi; Aozuka, Noriyoshi; and Noguchi, Yoshitaka, 3,439,020.
Oushiba, Takashi, 3,481,844.
Showa Electric Wire and Cable Co., Ltd.: *See—*
Kasahara, Toshio, 3,447,986.
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo, 3,474,109.
Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo, 3,487,051.
Showa Sangyo Kabushiki Kaisha: *See—*
Watanabe, Haruo, 3,454,404.
Showalter, Joseph S., to Boone Bait Co., Inc. Fish hook for artificial bait. 3,465,466, 9-9-69, Cl. 43-44.8
Shown, John Hampton; and Tyson, Ronald Saylor, to GAF Corporation. Process for the manufacture of 1-amino-4- hydroxyanthraquinone. 3,454,604, 7-8-69, Cl. 260-380.
Shpeizman, Miron Matveevich: *See—*
Vill, Vadim Ivanovich; Kochanovsky, Nikolai Jakovlevich; Tazba, Semen Moiseevich; Shpeizman, Miron Matveevich; and Shternin, Lev Alexandrovich,3,460,734.
Shpigel, Alexandr-Sever Julievich: *See—*
Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich,3,459,311.
Shrader, Ross E.: *See—*
Laracn, Simon; Shrader, Ross E.; and Yocom, Perry N.,3,454,715.
Shrader, William W., to Raytheon Company. Moving target indicator clutter reducing apparatus. 3,441,931, 4-29-69, Cl. 343-7.7
Shrawder, Elsie J.: *See—*
Harvill, Edward K.; and Shrawder, Elsie J.,3,427,225.
Harvill, Edward K.; and Shrawder, Elsie J.,3,461,036.
Shreck, Peter K.: *See—*
Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K.,3,483,633.
Shreeve, Nicholas Gilbert: *See—*
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor,3,471,882.
Lawes, Louis F.W.; Shreeve, Nicholas Gilbert; and Mihalik, Nandor,3,480,359.
Shreve, Arthur L., III; Norris, Lyell Bayne, Jr.; and Beichler, Robert W., to Black and Decker Manufacturing Company, The, mesne. Display carton for power tools and the like. 3,481,453, 12-2-69, Cl. 206-45.14
Shreve, James S. Celestial direction finder. 3,443,873, 5-13-69, Cl. 356-168.
Shreve, James S., to United States of America, Army. Moving target indicator having staggered pulse repetition frequency. 3,480,953, 11-25-69, Cl. 343-7.7
Shreve, Robert R.: *See—*
Grib, Noris F.; and Shreve, Robert R.,3,425,310.
Shrewsbury, Derek David: *See—*
Daly, Edgar Frank; and Shrewsbury, Derek David,3,441,349.
Shrewsbury, Raymond W.: *See—*
Rutledge, Robert L.; and Shrewsbury, Raymond W.,3,460,100.
Shriver, Donald S.; and Bara, Edward J., to Allied Chemical Corporation. Production of melamine-urea-formaldehyde concentrates. 3,458,464, 7-29-69, Cl. 260-29.4
Shriver, George Harvey: *See—*
Harrington, Roy Edwards; and Shriver, George Harvey,3,453,815.
Shriver, William F., to Frick Company. Drip pan having defrosting means. 3,451,226, 6-24-69, Cl. 62-275.
Shriver, William F., to Frick Company. Condensing apparatus. 3,474,856, 10-28-69, Cl. 165-67.

Shriver, William F.; Sanders, John T., III; Pike, John A.; and Angle, Henry W., to Frick Company. Evaporative condenser. 3,472,042, 10-14-69, Cl. 62-305.
Shrock, Mark Allen: *See—*
Aeronautics Koehler, Carl August, Jr.; and Shrock, Mark Allen,3,448,345.
Shroeder, Hans-Detlef: *See—*
Merz, Herbert; Shroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,438,990.
Shroff, Arvin P., to Ortho Pharmaceutical Corporation. Oxime esters of 19-norandrostenes. 3,437,674, 4-8-69, Cl. 260-397.1
Shroff, Arvin Pranlal, to Ortho Pharmaceutical Corporation. 3-Aza steroids. 3,455,903, 7-15-69, Cl. 260-239.3
Shropshire, Joseph A., to Esso Research and Engineering Company. Fuel cell with Pt-Au anode and molybdate- containing electrolyte. 3,443,998, 5-13-69, Cl. 136-86.
Shrubsall, Harry I., to Union Carbide Corporation. Submerged melt electric welding system. 3,456,089, 7-15-69, Cl. 219-73.
Shrum, William E., to Dow Chemical Company, The. Flat bottom bag. 3,485,439, 12-23-69, Cl. 229-58.
Shrum, William E.; and Laursen, Larry J., to Dow Chemical Company, The. Vented bag. 3,439,869, 4-22-69, Cl. 229-62.
Shteinshleifer, Boris. Grip joint and catch for jewelry clasps. 3,440,695, 4-29-69, Cl. 24-160.
Shternin, Lev Alexandrovich: *See—*
Vill, Vadim Ivanovich; Kochanovsky, Nikolai Jakovlevich; Tazba, Semen Moiseevich; Shpeizman, Miron Matveevich; and Shternin, Lev Alexandrovich,3,460,734.
Shtikman, Shamuel; and Treves, David, to United States of America, mesne. Moving coil transducer control system. 3,452,259, 6-24-69, Cl. 318-21.
Shub, Vladimir Zinovjevich: *See—*
Belalov, Khasan Nurievich; Shub, Vladimir Zinovjevich; and Matash, Vitaly Konstantinovich,3,456,332.
Shue, Bruce R.: *See—*
Hunsaker, Oral K.; Shue, Bruce R.; and Davis, Ralph C.,3,463,675.
Shuert, Keith L.: *See—*
Schmidt, Arthur D.; and Shuert, Keith L.,3,461,572.
Shuey, Robert A., Jr. Apparatus for handling an elongate member. 3,473,715, 10-21-69, Cl. 226-108.
Shuey, Robert A. Template controlled router with controlled hydraulic drive means. 3,479,922, 11-25-69, Cl. 90-13.
Shufelt, Rainey A.: *See—*
Holoch, Klaus E.; Katchman, Arthur; and Shufelt, Rainey A.,3,450,670.
Shufflebarger, Earl D.: *See—*
Callahan, Francis J., Jr.; Gallagher, Bernard J.; Tasker, Jonathan; and Shufflebarger, Earl D.,3,428,291.
Gagher, Bernard J.; Shufflebarger, Earl D.; and Gallagher, Michael F.,3,445,088.
Shufflebotham, David: *See—*
Knight, Basil Edward; and Shufflebotham, David,3,456,884.
Shuffrey, Anthony L.; and Iles, Anthony J., to Eastman Kodak Company. Packaging of web material. 3,458,965, 8-5-69, Cl. 53-21.
Shuftan, Eugen J. Method and apparatus for preparing composite photographs. 3,486,430, 12-30-69, Cl. 95-12.
Shuh, Lewis M.; and Tucker, Richard W., to Compacker, Inc. Adhesive applicator apparatus. 3,425,393, 2-4-69, Cl. 118-2.
Shukla, Narendra M., to Burroughs Corporation. Current driver. 3,446,984, 5-27-69, Cl. 307-88.
Shukla, Narendra M.; and Garg, Jag Mohan. Position detector. 3,434,581, 3-25-69, Cl. 197-187.
Shukla, Narendra M.: *See—*
Mathamel, Flavius A.; and Shukla, Narendra M.,3,439,117.
Shuler, James Edward. Magnetic operated locking device. 3,434,571, 3-25-69, Cl. 188-69.
Shuler, James F.: *See—*
Gray, Robert A., Jr.; and Shuler, James F.,3,442,106.
Shuler, Luke M.: *See—*
Rideout, Donald C.; Shuler, Luke M.; and Riley, William H., Jr.,3,486,926.
Shuler, William R.: *See—*
O'Berry, Richard V.; and Shuler, William R.,3,471,350.
Shulgin, Alexander T., to Dow Chemical Company, The. 8-Alkyl-(and 8-cycloalkyl-lower-alkyl-)10- hydroxy-5-oxo-1,2,3,4-tetrahydro-5H[1]benzo-pyrano [3,4-d]pyridines. 3,429,889, 2-25-69, Cl. 260-295.
Shull, John D., Jr.; and Klems, John W., to National Gypsum Company. Method of sizing paper with silicone resin and of making gypsum wallboard therefrom. 3,481,829, 12-2-69, Cl. 162-164.
Shull, Peter O.: *See—*
Craig, Winfred C.; Davis, Gershon J.; and Shull, Peter O.,3,474,144.
Shull, Samuel E., to Air Products and Chemicals, Inc. Isomerization of olefinic hydrocarbons. 3,479,415, 11-18-69, Cl. 260-680.
Shulman, Garson P.; and Young, Freeman M., to Ashland Oil & Refining Company, mesne. Polycarboxylic acids derived from substituted alkylcyclohexenes. 3,466,302, 9-9-69, Cl. 260-346.8
Shulock, Charles; and Straslicka, William A., to Carrier Corporation. Governor trip valve with temperature compensation means. 3,465,769, 9-9-69, Cl. 137-31.
Shulton, Inc.: *See—*
Schipper, Edgar; Oroshnik, William; and Cinnamon, Jerome M., 3,435,064.
Shultz, Andrew, to Allied Chemical Corporation. Liquid polyisocyanate compositions and process for the production thereof. 3,452,073, 6-24-69, Cl. 260-453.
Shultz, Andrew, to Allied Chemical Corporation. Organic sulfonates. 3,458,447, 7-29-69, Cl. 252-137.
Shultz, Andrew; and Kaplan, Melvin, to Allied Chemical Corporation. Polyisocyanate compositions. 3,455,836, 7-15-69, Cl. 252-182.
Shultz, Andrew: *See—*
Wagner, Charles R.; Shultz, Andrew; Allen, Robert A.; and Friedman, Cecil A.,3,426,058.
Shultz, Robert M.: *See—*
Wanlass, Frank M.; and Shultz, Robert M.,3,438,121.
Shultz, Walter, to Textron, Inc. Slide tool. 3,448,642, 6-10-69, Cl. 82-21.
Shultz, Walter; and Jones, Robert S., to Textron, Inc. Turret lathe. 3,486,209, 12-30-69, Cl. 29-27.
Shultz, William S.: *See—*
Sharp, Arnold G.; Shultz, William S.; and Sullivan, James R.,3,433,202.
Shumaker, Charles Storer, to United Engineering and Foundry Company. Apparatus for transferring loosely and tightly formed coils of metallic strip. 3,462,094, 8-19-69, Cl. 242-79.
Shumaker, Thomas P.: *See—*
Odom, James J.; Shumaker, Thomas P.; and Bloomquist, Paul R.,3,484,837.
Shumate, Donald J.: *See—*
Ogier, George; and Shumate, Donald J.,3,446,965.
Shumway, Harry, to Savo, Williams S. Safety visor with polymethylmethacyrylate tinted sheets. 3,475,080, 10-28-69, Cl. 350-276.
Shumway, John E., to International Harvester Company. Crop conveying means for harvesters. 3,451,530, 6-24-69, Cl. 198-213.
Shunk, Clifford H.; and Shen, Tsung-Ying, to Merck & Co., Inc. Aralkyl aliphatic sulfoxide oral parenteral and rectal dosage units for pain, fever and inflammation. 3,466,377, 9-9-69, Cl. 424-337.
Shunk, Clifford H.: *See—*
Shen, Tsung-Ying; and Shunk, Clifford H.,3,449,368.
Shunk Manufacturing Company, Inc., The: *See—*
James, Robert E., 3,467,028.
Shunn, William F.: *See—*
Schneider, Alfred; Shunn, William F.; and Roeske, Paul W.,3,434,462.
Shunshi Nakagawa: *See—*
Nakagawa, Shunshi; and Koike, Junichiro, 3,451,418.
Shupe, James R., to United States Pipe and Foundry Company. Apparatus for forming hollow plastic articles. 3,474,999, 10-28-69, Cl. 249-184.
Shupe, Kay M., to Allegheny Ludlum Steel Corporation. Ingot mold with hot top and refractory lining for inducing progressive axial solidification. 3,477,682, 11-11-69, Cl. 249-106.
Shupe, Marvin; and Boles, Robert W. Floral piece foundation. 3,457,673, 7-29-69, Cl. 47-41.12
Shur, Eliakum Gustave: *See—*
Ackerman, Joseph Francis; and Shur, Eliakum Gustave,3,444,113.
Shur Lok Corporation: *See—*
Lozano, Anthony H.; and Kottsieper, Edward, 3,486,544.
Shur-Lok Corporation: *See—*
Finney, Frank E., 3,461,937.
Mason, Kurt E.; and Volkmann, Josef F., 3,481,244.
Shure Brothers, Incorporated: *See—*
Ahrens, Erhard, 3,463,889.
Shuron/Continental: *See—*
McCall, Richard J., 3,448,549.
Shurtleff, Wood B. Portable submarine tanks. 3,435,793, 4-1-69, Cl. 114-0.5
Shute, Harry Norman. Apparatus and method for handling concrete blocks. 3,427,009, 2-11-69, Cl. 263-28.
Shute, Wallace B. Cervical dilator. 3,480,017, 11-25-69, Cl. 128-344.
Shutler, William F.: *See—*
Leilich, Hans-Otto G.; Rhodes, William H., Jr.; and Shutler, William F.,3,444,531.
Shutt, George V., to Hadley, B. H. Method and apparatus for packaging small discrete polygonal objects. 3,451,186, 6-24-69, Cl. 53-24.
Shutt, Paul B.: *See—*
Lewis, Richard L.; Ferrell, William E.; and Shutt, Paul B.,3,423,939.
Shutterly, Harold B., to Westinghouse Electric Corporation. Signal processing and reconstruction apparatus utilizing constant area quantization. 3,462,686, 8-19-69, Cl. 325-38.

Shuttle, Anthony J., Jr. Method of and means for determining line and grade of sewer pipes and the like. 3,451,136, 6-24-69, Cl. 33-1.

Shuttleworth, James J. Four flap opener. 3,448,560, 6-10-69, Cl. 53-382.

Shvartz, Yakov Iosifovich: *See—*
Vatmakher, Usher Abramovich; Tolstopyatova, Inga Alexandrovna; Shvartz, Yakov Iosifovich; and Pyankova, Tamara Ivanovna,3,467,862.

Shvedov, Vasily Eliseevich: *See—*
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich,3,443,836.

Shvo, Youval: *See—*
Taylor, Edward C.; and Shvo, Youval,3,423,412.

Shwartzberg, Shalom, to Ford Motor Company. Collapsible steering column. 3,468,182, 9-23-69, Cl. 74-492.

Shwartzberg, Shalom, to Ford Motor Company. Steering column for motor vehicle. 3,468,183, 9-23-69, Cl. 74-492.

Shwayder, Warren M. Method of disintegrating sintered hard carbide masses. 3,438,730, 4-15-69, Cl. 23-208.

Shwgeyama, Shogo: *See—*
Kasuga, Jiro; and Shwgeyama, Shogo,3,467,872.

Shyne, James J.; and Milewski, John V., to General Technologies Corporation. Method of growing alpha-alumina single crystal ribbons. 3,421,851, 1-14-69, Cl. 23-142.

Shyne, James J.; Milewski, John V.; and Smith, Charles B., to General Technologies Corporation. High strength whisker composite article. 3,421,862, 1-14-69, Cl. 29-182.5

SI Handling Systems, Inc.: *See—*
Johnson, Graham K.,; and Hefler, paul R., 3,481,281.
Roland, James A., 3,461,812.
Rotondo, Anthony J., 3,479,966.

Siana, Robert. Apparatus for preventing access to a lock mechanism. 3,477,261, 11-11-69, Cl. 70-427.

Sianesi, Dario: *See—*
Loffelholz, Marco; Pasetti, Adolfo; and Sianesi, Dario,3,450,611.
Natta, Giulio; and Sianesi, Dario,3,420,806.

Sianesi, Dario; Bernardi, Gian Carlo; and Moggi, Giovanni, to Montecatini Edison S.p.A. Method for preparing polyoxyperfluoromethylenic compounds. 3,451,908, 6-24-69, Cl. 204-158.

Sianesi, Dario; Bernardi, Gian Carlo; and Pasetti, Adolfo, to Montecatini Edison S.p.A. Photochemical process for preparing oxygen containing perfluorinated compounds. 3,451,907, 6-24-69, Cl. 204-158.

Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, to Montecatini Edison S.p.A. Fluorinated oxygen containing acyl fluorides. 3,442,942, 5-6-69, Cl. 260-544.

Sianesi, Dario; Pasetti, Adolfo; and Tarli, Franco, to Montecatini Edison S.p.A. Fluorinated 1,3-dioxolanes and process for their preparation. 3,475,457, 10-28-69, Cl. 260-340.9

Siano, Violet. Spout operated mixing valve. 3,468,343, 9-23-69, Cl. 137-636.2

Sias, Frederick R., to General Electric Company. Semiconductor rectifier assembly. 3,471,757, 10-7-69, Cl. 317-234.

Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H. H., to Steel Company of Canada Limited, The Metallgesellschaft Aktiengesellschaft, and Mather, Pickands & Co. Electric-arc steelmaking. 3,472,649, 10-14-69, Cl. 75-10.

Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H.H., to Steel Company of Canada Limited, The Metallgesellschaft Aktiengesellschaft, and Mather, Pickands & Co. Electric-arc steelmaking. 3,472,650, 10-14-69, Cl. 75-12.

Sibenhorn, Wolfgang: *See—*
Bader, Erich; and Sibenhorn, Wolfgang,3,463,757.

Siber, Erwin-Walter; and Keary, Marvin William, to Go-Tract Limited. Resilient suspension. 3,447,814, 6-3-69, Cl. 280-124.

Sibert, Frederick J., to Nalco Chemical Company. Process for separation of red mud from dissolved alumina. 3,445,187, 5-20-69, Cl. 23-143.

Sibert, Wilhelm, to Mobykote Produktions G.m.b.H. Lubricants for dies. 3,453,209, 7-1-69, Cl. 252-25.

Sibeud, Jean-Paul, to Automobiles M. Berliet. Apparatus for accurately measuring the specific fuel consumption of internal combustion engines. 3,448,609, 6-10-69, Cl. 73-113.

Sibilia, John A.: *See—*
Saunders, Lawrence L.; and Sibilia, John A.,3,460,993.

Sibilia, John P.: *See—*
Brownstein, Arthur M.; and Sibilia, John P.,3,465,024.
Brownstein, Arthur M.; and Sibilia, John P.,3,483,242.

Sibilia, John T.; and Smith, David H., to Bell Telephone Laboratories, Incorporated. Magnetic circuit with reverse domain propagation. 3,447,141, 5-27-69, Cl. 340-174.

Sibley, Forbes S.; and Spooner, Norman F., to Hoskins Manufacturing Company. Nickel alloy thermocouple. 3,457,122, 7-22-69, Cl. 136-236.

Sibley, Henry C.: *See—*
Haner, Robert B., Jr.; Sibley, Henry C.; Sutton, Paul C.; and Pettitt, Walter G.,3,435,223.

Sibley, Lewis B.; and Rhoads, William L., to SKF Industries, Inc. Rolling bearing assembly. 3,450,449, 6-17-69, Cl. 308-187.

Sibley, Lewis B.: *See—*
Tallian, Tibor E.; and Sibley, Lewis B.,3,421,799.
Tallian, Tibor E.; and Sibley, Lewis B.,3,484,143.

Sibuya, Tuyosi: *See—*
Hayashi, Shigeki; Sibuya, Tuyosi; Kobayashi, Hideaki; and Takarai, Yutaka,3,482,538.

Sicard, Louis; and Daumard, Claude, to Societe Anonyme dite: Tissmetal, Lionel-Dupont, Teste & Cie. Fluid exchange column. 3,466,151, 9-9-69, Cl. 23-288.

Sicard, Marcel Clarence: *See—*
Petrucci, Raymond Mark; and Sicard, Marcel Clarence,3,469,696.

Sichak, William, to Communication Systems, Incorporated. Adaptive receiver system for minimizing path intermodulation noise. 3,480,867, 11-25-69, Cl. 325-476.

Sichel, Alfred: *See—*
Lalande, Jean F.; and Sichel, Alfred,3,458,826.

Sichel, Leonard H., Jr.; Hallman, Henry R.; and Marra, Thomas, to Burroughs Corporation. Buffering of control word and data word system memory transfers in a communications control module. 3,482,214, 12-2-69, Cl. 340-172.5

Sichel, Leonard H., Jr.: *See—*
Keiter, Irvin L.; Sichel, Leonard H., Jr.; Morgenson, Edgar O., Jr.; and Questa, Charles R.,3,461,432.

Siciliano, Gasparo P.: *See—*
England, Wilbur B.; Pero, John P., III; Siciliano, Gasparo P.; and Takata, Victor T.,3,468,226.

Sick, Erwin: *See—*
Piepenbrink, Winfried; and Triller, Adolf, 3,474,254.

Sick, Paul J.: *See—*
Skinner, Clayton H.; and Sick, Paul J.,3,420,276.
Skinner, Clayton H.; and Sick, Paul J.,3,462,177.

Sicka, Richard W.; Rose, Selwyn H.; and Harkulich, Theodore M., to Horizons Research Incorporated. Whisker reinforced composite materials produced by electrophoretic deposition. 3,445,361, 5-20-69, Cl. 204-181.

Sickbert, Adolf, to Krupp, Friedr., Huttenwerke Aktiengesellschaft. Hose line for sucking of hot gases, particularly in the vacuum degassing of large metal and steel batches. 3,430,663, 3-4-69, Cl. 138-148.

Sickbert, Adolf: *See—*
Stich, Wilhelm; and Sickbert, Adolf,3,432,367.

Sickinger, Albert E.: *See—*
Sickinger, Hans A.; Sickinger, Albert E.; and Schmidt, Armin E.,3,485,387.

Sickinger, Hans A., to Sickinger, Hans, Co. Holding and releasing mechanism for spiral binder applying machines. 3,486,537, 12-30-69, Cl. 140-92.94

Sickinger, Hans A.; Sickinger, Albert E.; and Schmidt, Armin E., to Sickinger, Hans, Co. Book handling mechanism. 3,485,387, 12-23-69, Cl. 214-1.

Sickinger, Hans, Co.: *See—*
Ostermeier, Claus, 3,467,150.
Pfaffle, Ernst; and Seufert, John L., 3,452,628.
Schmidt, Armin E., 3,459,242.
Sickinger, Hans A.; Sickinger, Albert E.; and Schmidt, Armin E., 3,485,387.
Sickinger, Hans A., 3,486,537.

Sickler, Earl E.: *See—*
Larsen, Marget A.; and Sickler, Earl E.,3,461,574.

Sickler, Raymond W.: *See—*
Zimmer, Ernest C.; and Sickler, Raymond W.,3,452,501.

Sickles, Ralph E., to Diamond Shamrock Corporation. Electroless nickel, cobalt and nickel-cobalt alloy plating from fluoborates sources. 3,432,338, 3-11-69, Cl. 117-130.

Sickman, Darrell V.; and Kamlet, Mortimer J., to United States of America, Navy. Azobis(2,2',4,4',6,6'-hexanitrobiphenyl). 3,461,112, 8-12-69, Cl. 260-205.

Siclari, Francesco; and Fulmini, Sergio, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Solvent removal from polymeric materials. 3,469,618, 9-30-69, Cl. 159-48.

Sico Incorporated: *See—*
Bue, Richard C., 3,437,058.
Bue, Richard C.; and Gutierrez, Julian, 3,477,760.

Sida, Juichi; Haki, Morio; and Yokoyama, Tosiaki, to Nihon Kentetsu Kabushiki Kaisha. Coilable sun blind of seeing through type. 3,473,534, 10-21-69, Cl. 160-238.

Sidbury, Melvin D.: *See—*
Block, M Sabel; Sidbury, Melvin D.; and Reich, Melvin F.,3,467,109.

Siddall, Don F.; and Hoffman, Vincent L., to Norton Company, mesne. Milking inflation. 3,474,760, 10-28-69, Cl. 119-14.49

Siddall, John B., to Syntex Corporation. Preparation of 6-keto-14α-hydroxy-Δ^7-dehydro steroids. 3,440,241, 4-22-69, Cl. 260-239.57

Siddall, John B.: *See—*
Edwards, John A.; Fried, John H.; and Siddall, John B.,3,455,905.
Huppi, Gerhard A.; and Siddall, John B.,3,481,926.
Siddiqui, Salimuzzaman; Qureshi, Shabbir A.; and Ashrafi, Shahid H. Process for the manufacture of a pesticide from petroleum hydrocarbons. 3,454,664, 7-8-69, Cl. 260-660.
Siddons Industries Limited: *See—*
Siddons, John Royston; and Gordon, Kenneth, 3,480,089.
Siddons, John Royston; and Gordon, Kenneth, to Siddons Industries Limited. Rotary percussion apparatus. 3,480,089, 11-25-69, Cl. 173-99.
Sidebotham, Eric; and Human, George James, to Associated Electrical Industries Limited. Sorting apparatus. 3,440,972, 4-29-69, Cl. 104-88.
Sidell, Philip A., to Ingraham Company, The. Battery ejector for portable appliances. 3,445,297, 5-20-69, Cl. 136-173.
Sideloading, Inc.: *See—*
Yeary, Edwin N., 3,428,358.
Sides, Everett E., to Textile Specialties, Inc. Backstop for transfer tail clamping apparatus. 3,452,784, 7-1-69, Cl. 139-247.
Sidi, Henri, to Tenneco Chemicals, Inc. Copolymers of formaldehyde and a mixture of dicarbonals. 3,428,606, 2-18-69, Cl. 260-67.
Sidles, James; and Heimovics, John F., to Goodrich, B. F., Company, The. Foldable sidewall pneumatic tire with canted sidewall support ribs. 3,421,566, 1-14-69, Cl. 152-330.
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard, to Goodrich, B. F., Company, The. Reinforcement for elastomeric articles. 3,455,100, 7-15-69, Cl. 57-152.
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard, to Goodrich, B. F., Company, The. Pneumatic tire. 3,486,546, 12-30-69, Cl. 152-330.
Sidles, Peter, Jr., to Caterpillar Tractor Company. Hydraulic actuating means or tractor steering clutches. 3,448,841, 6-10-69, Cl. 192-87.13
Sidnam, Robert D.: *See—*
Miller, Henry S.; Linhardt, Robert J.; and Sidnam, Robert D.,3,462,742.
Sidor, Edward F.; and Reimer, William A., to Automatic Electric Laboratories, Inc. Toroidal reed switch. 3,480,893, 11-25-69, Cl. 335-202.
Sidorov, Pavel Ivanovich: *See—*
Krylov, Nikolai Ivanovich; Popov, Boris Vasilievich; Sidorov, Pavel Ivanovich; Saksagansky, Alexandr Teodorovich; Levitsky, Isaak Iosifovich; and Golovkina, Tatyana Borisovna,3,428,096.
Sidran, Claire M. Method of dosimetry dose and time-lapse read-out. 3,475,606, 10-28-69, Cl. 250-83.
Sidur, Robert A. Flashing light device. 3,430,102, 2-25-69, Cl. 315-239.
Sie, Charles H.: *See—*
Matick, Richard E.; and Sie, Charles H.,3,436,749.
Sie, Swan A.: *See—*
Sherwood, John W. C.; and Sie, Swan A.,3,454,924.
Siebel, J. E., Sons, Company, Inc.: *See—*
Segel, Edward; and Glenister, Paul R., 3,443,957.
Siebel, Joseph; and Macura, Heinrich, to Erz- und Kohleflotation G.m.b.H. Bochum. Method of making spongy substances hydrophobic. 3,455,719, 7-15-69, Cl. 106-309.
Siebelhoff, Bernd, to Rheinmetall G.m.b.H. Hydraulic chuck. 3,427,036, 2-11-69, Cl. 279-4.
Siebenberg, Henry N.; and Breault, Richard D., to Leesona Corporation, mesne. Matrix construction for fuel cells. 3,481,737, 12-2-69, Cl. 136-86.
Siebenmann, Richard. Installation for purifying spent fuel oil. 3,469,701, 9-30-69, Cl. 210-258.
Sieber, Charles B., to Black and Decker Manufacturing Company, The. Impact mechanism. 3,486,569, 12-30-69, Cl. 173-93.5
Sieber, Johannes Helmut: *See—*
Fuhring, Heinrich; Wunderlich, Klaus; and Sieber, Johannes Helmut,3,459,490.
Sieber, Johannes Helmut, to American Permac, Inc. Process and apparatus for the controlled treatment of textiles. 3,473,175, 10-21-69, Cl. 8-158.
Sieber, Rolf, to Wacker-Chemie G.m.b.H.Process for making 4,4'-bis-hydroxyalkyl ethers of stilbene. 3,444,245, 5-13-69, Cl. 260-613.
Siebers, Robert W.; and Spink, Robert W., to Cutler-Hammer, Inc. Conduction control circuit for semiconductor controlled rectifiers. 3,437,841, 4-8-69, Cl. 307-252.
Siebert & Associates, Inc.: *See—*
Williams, Nolan H., 3,446,331.
Siebert, Hans: *See—*
Simmon, Gerhard; and Siebert, Hans,3,454,316.
Siebert, Jack Alan, to Sangamo Electric Company. Acoustic transducers. 3,421,139, 1-7-69, Cl. 340-10.
Siebert, John N., Jr.: *See—*
Van Vliet, Lyman B., Jr.; and Siebert, John N., Jr.,3,471,235.
Siebert, Louie P., to Cropland Industries, Inc. Ambulatory irrigating device. 3,465,766, 9-9-69, Cl. 137-1.
Siebertz, Karl, to Siemens Aktiengesellschaft. Transistor device. 3,430,111, 2-25-69, Cl. 317-234.
Siebertz, Karl; and Hofmeister, Ernst, to Siemens Aktiengesellschaft. Voltage dependent semiconductor capacitor of mesa type. 3,487,272, 12-30-69, Cl. 317-234.
Siebke, Carl O., to Miller Printing Machinery Co. Sheet tensioning and transfer mechanism for presses. 3,430,946, 3-4-69, Cl. 271-51.
Siebke, Carl O., to Miller Printing Machinery Co. Sheet gripper mechanism. 3,443,808, 5-13-69, Cl. 271-82.
Siebold, Donald J.; and Callahan, Michael L., to General Electric Company. UHF-VHF channel indicating device. 3,478,718, 11-18-69, Cl. 116-124.1
Siebold, Howard, to Liquid Controls Corporation. Rotary fluid displacement device. 3,457,835, 7-29-69, Cl. 91-92.
Siebold, Howard; and Douglas, Gilbert R., to Liquid Controls Corporation. Monitoring apparatus for a meter register. 3,446,072, 5-27-69, Cl. 73-198.
Siebring, Barton G. Collapsible camper. 3,472,252, 10-14-69, Cl. 135-1.
Siebring, Gary C., to Siebring Manufacturing Company. Cleaning apparatus. 3,438,580, 4-15-69, Cl. 239-135.
Siebring Manufacturing Company: *See—*
Siebring, Gary C., 3,438,580.
Siedband, Melvin P., to Westinghouse Electric Corporation. Portable defibrillator having saturable core output transformer. 3,481,341, 12-2-69, Cl. 128-421.
Siedel, Walter: *See—*
Nahm, Helmut; Siedel, Walter; and Luding, Edgar,3,449,325.
Siedel, Walter; and Wissmann, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. α-Bromo-cinnamaldehydes and process for preparing them. 3,457,314, 7-22-69, Cl. 260-599.
Wissmann, Hans; Siedel, Walter; and Geiger, Rolf,3,487,047.
Siedenburg, Frederick M. Fluid separator. 3,424,311, 1-28-69, Cl. 210-86.
Siedenstrang, Roy W.: *See—*
Mathis, Clyde H.; and Siedenstrang, Roy W.,3,420,808.
Sieder, Everett N., to United States of America, Interior. Multistage flash distillation with scale removal. 3,476,654, 11-4-69, Cl. 203-7.
Sieder, Everett N., to United States of America, Interior. Descaling of saline water and distillation. 3,476,655, 11-4-69, Cl. 203-7.
Sieders, Christiaan H.; and Verbeek, Henri P. J., to Shell Oil Company. Liquid storage tank. 3,434,617, 3-25-69, Cl. 220-9.
Sieders, Rene; and Taal, Leo, to Algemene Kunstzijde Unie, N.V. Tank for storage and transportation of low boiling liquefied gas. 3,484,277, 12-16-69, Cl. 117-95.
Siefert, Roland, to Kienzle Uhrenfabriken G.m.b.H. Tuning fork or similar driven oscillator. 3,460,340, 8-12-69, Cl. 58-23.
Siefert, Roland, to Kienzle Uhrenfabriken G.m.b.H. Constant speed clock motor. 3,470,433, 9-30-69, Cl. 318-138.
Siefert, Roland, to Kienzle Uhrenfabriken G.m.b.H. Clock case. 3,477,224, 11-11-69, Cl. 58-53.
Siefert, Roland, to Kienzle Uhrenfabriken G.m.b.H. Device for driving time works by a high frequency vibrator and means for mounting the device. 3,483,692, 12-16-69, Cl. 58-23.
Siefert, Roland; and Charrier, Rolf, to Kienzle Uhrenfabriken G.m.b.H. Magnetic timing impulse switch. 3,435,313, 3-25-69, Cl. 318-138.
Siefert, Roland; and Odenbach, Heinz, to Kienzle Uhrenfabriken G.m.b.H. Coupling detaining clock hand or pointer and its spindle. 3,433,012, 3-18-69, Cl. 58-126.
Siefken, Werner: *See—*
Bayer, Otto; Schrotter, Rudolf; Siefken, Werner; and Wagner, Kuno,3,437,609.
Sieg, Robert P.; and Kemp, Jacob D., to Chevron Research Company. Process for production of gasoline. 3,482,952, 12-9-69, Cl. 44-56.
Siegal, Burton L.: *See—*
Granata, Peter C., Jr.; Siegal, Burton L.; and Zeissler, Edward J.,3,472,978.
Siegal, Burton L., to Mard Continental, Inc. Internally illuminated artificial tree. 3,465,139, 9-2-69, Cl. 240-10.
Siegal, Burton L.; and Carlberg, George A., to Porta-Table Corporation. Portable saw table. 3,450,177, 6-17-69, Cl. 143-6.
Siegal, William Jordan. Quick connect flexible drive. 3,461,687, 8-19-69, Cl. 64-2.
Siegart, William R.: *See—*
Blackley, William D.; Siegart, William R.; and Chafetz, Harry,3,429,937.
Siegart, William R.; Blackley, William D.; Chafetz, Harry; and McMahon, Matthew A., Jr., to Texaco Inc. Method of producing fluorinated compounds. 3,480,667, 11-25-69, Cl. 260--514
Siegart, William R.; Peropoulos, Peter C.; Jones, Ronald E.; and Smolin, William, to Texaco Inc. Separation and purification of secondary alkyl primary amines. 3,470,251, 9-30-69, Cl. 260-583.
Siegel, Charles R. Mobile crane and tow truck. 3,426,917, 2-11-69, Cl. 212-55.
Siegel, Edgar: *See—*
Harms, Wolfgang; von Oertzen Klaus; Bein, Hans-Samuel; and Siegel, Edgar,3,468,879.
Horstmann, Walter; and Siegel, Edgar,3,467,643.

Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus,3,480,611.
Siegel, Herbert: *See—*
Schonemeyer, Hilmar; and Siegel, Herbert,3,472,969.
Siegel, Herbert, to International Standard Electric Corporation. Annoyance call trap. 3,431,364, 3-4-69, Cl. 179-18.
Siegel, Herbert; and Hackenberg, Walter, to International Standard Electric Corporation. Circuit arrangement to release registers in telecommunication exchanges. 3,431,365, 3-4-69, Cl. 179-18.
Siegel, Irving. Hair support. 3,452,761, 7-1-69, Cl. 132-106.
Siegel, Joel R.; and Pawson, Beverly A., to Esso Research and Engineering Company. Multi-purpose polyalkenyl succinic acid derivative. 3,458,530, 7-29-69, Cl. 260-326.5
Siegel, Lester Aaron, to American Cyanamid Company. Method of stereoscopic illustration of a three- dimensional design on a two-dimensional drawing. 3,482,095, 12-2-69, Cl. 250-60.
Siegel, Lester Aaron, to American Cyanamid Company. Coded ink recording and reading. 3,486,006, 12-23-69, Cl. 235-61.11
Siegel, Max; and Jacobs, Allen D., to Babyline Furniture Corporation. Bed having a drop side supported upon guide brackets. 3,480,974, 12-2-69, Cl. 5-100.
Siegel, Robert. Corneal plastic contact lens with colored peripheral zone. 3,454,332, 7-8-69, Cl. 351-162.
Siegel, Sheldon K. Block holder. 3,424,419, 1-28-69, Cl. 248-226.
Siegel, Sidney R.: *See—*
McIver, Chandler H.; Siegel, Sidney R.; and White, William W., Jr.,3,470,611.
Milgram, Arthur; and Siegel, Sidney,3,472,313.
Siegel, Solomon. Textile winding machine. 3,441,231, 4-29-69, Cl. 242-38.
Siegel, Vernon H., to Kistler Instrument Corporation. Charge amplifier with protective discharge device. 3,454,891, 7-8-69, Cl. 330-24.
Siegel, Vernon H. Accelerometer and pickoff system. 3,478,605, 11-18-69, Cl. 73-517.
Siegel, Vernon H.: *See—*
Kistler, Walter P.; and Siegel, Vernon H.,3,444,743.
Siegel, Werner, to Schloemann Aktiengesellschaft. Reflux lock for the worm head of helical injection molding machines for the treatment of thermo- plastic synthetic materials. 3,452,398, 7-1-69, Cl. 18-30.
Siegelbaum, Gary: *See—*
Sohmers, Ralph; and Siegelbaum, Gary,3,428,026.
Siegele, Frederick Herman, to American Cyanamid Company. Oil well fracturing method using wax emulsions. 3,477,512, 11-11-69, Cl. 166-283.
Siegele, Frederick Herman; Ondera, Emil Vincent; and Liberatore, Michael Angelo, to American Cyanamid Company. Selective flocculant in drilling muds. 3,434,970, 3-25-69, Cl. 252-8.5
Siegelin, Werner: *See—*
Gawlick, Heinz; Marondel, Gunther; Bendler, Hellmut; and Siegelin, Werner,3,468,730.
Siegelman, Abe; and Fowler, Leslie E., to Beckman Instruments, Inc. Recording stylus arm. 3,427,635, 2-11-69, Cl. 346-139.
Siegemund, Richard, to Dual Gebruder Steidinger. Magnetic tape magazine. 3,426,977, 2-11-69, Cl. 242-55.13
Siegemund, Richard, to Dual Gebruder Steidinger. Cooperative brake and driving device for a recording machine. 3,445,075, 5-20-69, Cl. 242-55.12
Siegemund, Richard, to Dual Gebruder Steidinger. Magnetic head having point-welded laminations and method of producing the same. 3,454,728, 7-8-69, Cl. 179-100.2
Siegemund, Richard, to Dual Gebruder Steidinger. Guide device for tape-like recording carrier. 3,467,342, 9-16-69, Cl. 242-209.
Siegener Machinenbau G.m.b.H.: *See—*
Hein, Ewald, 3,486,359.
Siegener Maschinenbau, G.m.b.H.: *See—*
Perner, Friedrich, 3,457,755.
Schreiber, Gerhard; and Kraus, Herman, 3,423,981.
Siegenthaler, Karl, to Fabrik fur Firestone Produkte AG. Cutting of web material into strips. 3,485,128, 12-23-69, Cl. 83-326.
Sieger, Albert. Two part ignition distributor housing. 3,444,851, 5-20-69, Cl. 123-164.
Sieger, Maurice Paul; and Stiveson, Robert A., to United Engineering and Foundry Company. Apparatus for shearing plate. 3,434,378, 3-25-69, Cl. 83-556.
Sieger, Maurice Paul: *See—*
Stone, Morris Denor; and Sieger, Maurice Paul,3,422,655.
Siegers, Gunter: *See—*
Martinola, Friedrich; Siegers, Gunter; and Wolniewicz, Erwin,3,458,436.
Siegfreid, Edward C., to Dickey, W. S., Clay Manufacturing Company. Method for making amonolithic clay fitting. 3,465,075, 9-2-69, Cl. 264-155.
Siegfried Aktiengesellschaft: *See—*
Haring, Marc; Molnar, Istvan; and Wagner-Jauregg, Theodor, 3,431,342.
Siegfried Aktiengesellschaft Zofingen: *See—*
Molnar, Istvan; Wagner-Jauregg, Theodor; Jahn, Ulrich; and Mixich, Georg, 3,482,024.
Sieghartner, Leonard J., to Roth, Roy E., Company. Combined vent and overflow means for an enclosed fluid containing vessel. 3,485,266, 12-23-69, Cl. 137-588.
Siegl, Herbert: *See—*
Kunstle, Gerhard; and Siegl, Herbert,3,476,798.
Kunstle, Gerhard; Heckmaier, Joseph; Knorr, Fritz; and Siegl, Herbert,3,474,138.
Siegla, Donald C.: *See—*
Gaugler, Richard S.; and Siegla, Donald C.,3,444,710.
Siegle, G., & Co. G.m.b.H.: *See—*
Hayer, Dieter H. A.; and Grozinger, Lore, 3,436,362.
Siegle, William T., to International Business Machines Corporation. Magnetic film memory with dispersion locking. 3,452,338, 6-24-69, Cl. 340-174.
Siegleman, Abe; Lencioni, Cecil C., Jr.; and Rosmanith, Carl W., to Beckman Instruments, Inc. High torque motor. 3,483,410, 12-9-69, Cl. 310-114.
Siegler, Lawrence D. Hand operated toy. 3,419,995, 1-7-69, Cl. 46-124.
Siegler, Lear, Inc.: *See—*
Knapp, Emil, 3,440,601.
Weber, Paul E., 3,434,785.
Siegler, Robert S.: *See—*
Binsley, Robert L.; and Siegler, Robert S.,3,439,495.
Siegler, Robert S.; and Binsley, Robert L., to North American Rockwell Corporation. Backflow guide for turbine starter. 3,474,622, 10-28-69, Cl. 60-39.77
Siegmund, Walter P., to American Optical Corporation, mesne. Methods of making display devices. 3,472,718, 10-14-69, Cl. 156-174.
Siegmund, Walter P.; Koester, Charles J.; and Ask, Clifford W., to Optical Company, mesne. Light-modulating device. 3,442,568, 5-6-69, Cl. 350-96.
Siegmund, Walter P.; and Williams, Noble S., to American Optical Company, mesne. Fiber optical image-conducting devices embodying varying controlled stray light absorbing means. 3,436,142, 4-1-69, Cl. 350-96.
Siegrist, Adolf Emil: *See—*
Guglielmetti, Leonardo; Maeder, Erwin; Liechti, Peter; and Siegrist, Adolf Emil,3,449,330.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, to Ciba Limited. Phenyl 1,3,4-oxdiazole derivatives. 3,444,179, 5-13-69, Cl. 260-307.
Maeder, Erwin; and Siegrist, Adolf Emil,3,444,180.
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil,3,429,877.
Maeder, Erwin; Liechti, Peter; Guglielmetti, Leonardo; and Siegrist, Adolf Emil,3,455,837.
Siegwart, Emil. Sheet metal joint. 3,443,601, 5-13-69, Cl. 138-156.
Siekman, Jakob Gerard; and Morijn, Rudolf Eduard, to U.S. Philips Corporation, mesne. Method of welding strongly reflecting materials by means of a focussed beam of electromagnetic radiation. 3,473,000, 10-14-69, Cl. 219-121.
Siekman, Robert W.: *See—*
Cope, Arthur C.; and Siekman, Robert W.,3,424,739.
Sieloff, Dorothy L.: *See—*
Lothman, Mary F., 3,433,939.
Sieloff, Kenneth A.: *See—*
Lothman, Mary F., 3,433,939.
Siemag Siegener Maschinenbau G.m.b.H.: *See—*
Schick, Josef, 3,467,540.
Schick, Josef H., 3,470,074.
Siemens Aktiengesellschaft: *See—*
Albrecht, Cord; and Kafka, Wilhelm, 3,466,581.
Albrecht, Cord; Kafka, Wilhelm; and Kullmann, Dieter, 3,480,895.
Andress, Bernhard; and Kuchelbacher, Ludwig, 3,427,118.
Arndt, Heinz-Herbert; and Schadel, Jurgen, 3,439,855.
Asmus, Alexander, 3,444,367.
Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst, 3,483,373.
Bauerlein, Rudolf; and Raithel, Kurt, 3,442,722.
Baur, Hans; and Fabianke, Hartmut, 3,480,732.
Bayati, Abutorab; Peiser, Rudolf; and Schefter, Lothar, 3,461,384.
Behrend, Gunter, 3,427,196.
Berberich, Bertold, 3,473,879.
Berberich, Bertold, 3,480,806.
Bester, Werner; Butzke, Fritz; Hennig, Fritz; Voelcker, Sven; Reier, Richard; and Rekewitz, Rudolf, 3,450,836.
Bittorf, Hannjorg, 3,454,806.
Bittorf, Hannjorg; Denk, Hans; and Wolfram, Roland, 3,483,418.
Bogner, Gunther; and Dotzer, Richard, 3,428,925.
Bogner, Gunther; and Dotzer, Richard, 3,428,926.
Bogner, Gunther; and Klipping, Gustav, 3,430,450.
Bogner, Gunther; and Marsing, Helmut, 3,436,926.
Bogner, Gunther, 3,440,336.
Brauer, Horst; Fenner, Erich; and Kuschke, Renate, 3,441,517.
Brunner, Julius; and Rainer, Erich, 3,483,456.

Buick, Kurt; Klein, Heinrich; and Weber, Eduard, 3,466,853.
Buttner, Gerhard; Bushmann, Klaus; Papke, Wolfgang; and Philipp, Herbert, 3,444,328.
Butzke, Fritz; Voelcker, Sven; and Nitschke, Bruno, 3,449,515.
Christiansen, Hans-Martin; and Hanni, Manfred, 3,426,296.
Christiansen, Hans-Martin, 3,443,190.
Ciriack, Gunter; Eckert, Georg; and Hofmann, Horst, 3,453,479.
Colombo, Charles J., 3,429,998.
Darr, Christian, 3,451,031.
de Bucs, Eugen Szabo; Oesterhelt, Gerhard; and Pietsch, Doris, 3,441,812.
Dersin, Hansjurgen; and Fruchte, Erwin, 3,425,878.
Dersin, Hensjurgen; and Lochner, Horst-Paul, 3,480,472.
Diederichs, Artur, 3,432,700.
Diederichs, Artur; and Pieper, Wolfgang, 3,461,528.
Dietrich, Isolde; Berkl, Erhard; and Weyl, Reinhard, 3,481,800.
Dietz, Helmut; Kuhrt, Friedrich; Lippmann, Hans-Joachim; and Schenk, Horst, 3,438,230.
Dobermann, Hans, 3,462,552.
Dotzer, Richard, 3,448,127.
Eberhard, Gunther, 3,487,260.
Eder, Franz X.; and Voigt, Hans, 3,478,232.
Eichin, Werner; and Katz, Helmut, 3,466,494.
Eissfeldt, Erich; and Kofferlein, Rainer, 3,459,370.
Elsner, Peter, 3,439,182.
Emeis, Reimer; and Weber, Wolfgang, 3,480,474.
Engel, Walter, 3,448,359.
Epp, Kurt, 3,448,309.
Esche, Rolf; and Hacht, Werner V., 3,431,382.
Fabris, Wilhelm V., 3,430,833.
Faust, Hans-Dieter; and Rossner, Wolfgang, 3,428,774.
Feldtkeller, Ernst, 3,448,439.
Feldtkeller, Ernst; and Stein, Karl-Ulrich, 3,459,517.
Finkhauser, Dieter; and Strobelt, Walter, 3,426,154.
Finkhauser, Dieter; and Huber, Erwin, 3,427,404.
Fischer, Josef; and Muller, Erwin, 3,421,127.
Fischer, Josef; Krautwald, Herbert; and Schedele, Helmut, 3,439,313.
Fischer, Josef; Krautwald, Herbert; and Hubner, Wolfgang, 3,482,193.
Fischer, Joseff; Krautwald, Herber; and Schedele, Helmut, 3,420,973.
Friess, Klaus; Ulrich, Richard; and Kritikos, Athanasios, 3,476,688.
Gammel, Josef, 3,421,094.
Gammel, Josef; and Huggle, Kurt, 3,437,933.
Gammel, Josef, 3,461,398.
Gattner, Gunther E.; and Jurk, Rolf F., 3,430,198.
Gebsattel, Christof, 3,436,532.
Gehrmann, Horst, 3,439,119.
Gerland, Heinz; Gotze, Werner; and Jaeschke, Walter, 3,471,327.
Glien, Hans, 3,448,329.
Glock, Hans, 3,421,155.
Glock, Hans, 3,441,918.
Goerke, Rolf; Bisch, Helmut; Togel, Kurt; and Speck, Werner, 3,478,207.
Goser, Karl; and Kadereit, Hans-Gunther, 3,460,102.
Graf, Winfried, 3,448,213.
Grahmann, Bernd, 3,443,317.
Gross, Franz, 3,436,586.
Grunwald, Erich; and Kafka, Wilhelm, 3,440,456.
Grunwald, Erich; and Kafka, Wilhelm, 3,441,755.
Gumin, Heinz; and Weber, Helmut, 3,482,112.
Hanni, Manfred, 3,478,170.
Heinlein, Walter, 3,462,696.
Heissmeier, Walter; and Wagnerberger, Wolfgang, 3,451,050.
Heissmeier, Walter; Klein, Karl; and Wagnerberger, Wolfgang, 3,474,430.
Henke, Oskar; and Lukas, Alfred, 3,453,497.
Henker, Heinz, 3,461,836.
Henker, Heinz, 3,477,885.
Hennig, Fritz, 3,441,671.
Herlet, Adolf, 3,423,649.
Herlet, Adolf; and Patalong, Hubert, 3,439,239.
Herrmann, Karl-Heinz; and Krahl, Dieter, 3,453,485.
Hess, Gunther, 3,456,146.
Heywang, Walter, 3,426,255.
Heywang, Walter, 3,460,004.
Hieronymus, Hans, 3,462,673.
Hini, Paul, 3,456,097.
Hini, Paul, 3,471,722.
Hinkeldey, Arno, 3,441,780.
Hochrath, Hans, 3,439,280.
Hofflinger, Bernd, 3,483,441.
Hoffmann, Herbert; and Vitzthum, Diether, 3,454,816.
Hoffmann, Manfred; Wendelin, Roland; and Katscher, Erich, 3,467,897.
Hoschler, Hans; and Kraus, Gunther, 3,449,520.
Hoschler, Hans, 3,461,243.
Hubner, Erwin, 3,441,779.
Illenberger, Karl, 3,483,536.
Jager, Philipp, 3,479,224.
Janner, Karl; and Budnick, Dietrich, 3,444,400.
Justi, Eduard; and Winsel, August, 3,428,491.
Kafka, Wilhelm; and Parsch, Claus-Peter, 3,431,347.
Kafka, Wilhelm, 3,444,307.
Kafka, Wilhelm, 3,453,449.
Kafka, Wilhelm, 3,470,396.
Kafka, Wilhelm, 3,483,493.
Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann, 3,471,326.
Katz, Helmut, 3,453,480.
Katz, Helmut; and Meyerer, Paul, 3,474,282.
Keller, Wolfgang; and Schmidt, Otto, 3,436,509.
Keller, Wolfgang; and Berger, Gunther, 3,454,368.
Keller, Wolfgang, 3,477,811.
Kempf, Gerhard, 3,469,097.
Kesselring, Fritz, 3,449,537.
Kesselring, Fritz; and Aumayer, Hansruedi, 3,486,137.
Keuth, Heinz; Heyer, Alfred; and Gegner, Emil, 3,447,009.
Kim, Jong-Dok, 3,430,034.
Kleeberg, Wolfgang; Denk, Hans; and Hauschildt, Klaus-Robert, 3,438,909.
Kleen, Werner, 3,452,178.
Klein, Erwin, 3,430,054.
Klein, Heinrich; Weber, Eduard; Pieper, Rudolf; and Hoffmann, Alfred, 3,477,569.
Kneisel, Otto; and Honold, Horst, 3,475,560.
Knodler, Diethelm; and Jezussek, Alfons, 3,459,325.
Koch, Werner; Roth, Hermann; and Walz, Heinz, 3,470,702.
Krause, Walter; Soldner, Richard E.; and Kresse, Heinz A., 3,470,868.
Krautwald, Herbert; and Schroder, Harry, 3,430,019.
Krautwald, Herbert; Hubner, Wolfgang; Bosch, Werner; and Aigner, Georg, 3,451,022.
Krestel, Erich; and Rainer, Erich, 3,440,506.
Kummerow, Gerd, 3,454,872.
Kurzl, Albert; and Steinkamp, Johann, 3,460,074.
Lange, Herbert, 3,436,286.
Langer, Gerhard, 3,443,401.
Liebscher, Roland; and Rother, Arnulf, 3,421,120.
Lindner, Werner; Krautwald, Herbert; and Schedele, Helmut, 3,479,623.
Lippmann, Hans Joachim; Prolss, Erhard; and Schenk, Horst, 3,439,403.
Lochner, Horst P.; and Dersin, Hans Jurgen, 3,461,004.
Loebe, Wolfram, 3,444,365.
Loffler, Josef; Rampp, Egon; and Schall, Hans, 3,476,378.
Lutgenau, Rudolf O., 3,444,519.
Lutz, Karl Anton, 3,444,359.
Maaz, Karl, 3,470,608.
Maaz, Karl; and Didschies, Gunther, 3,473,109.
Maier, Richard, 3,443,304.
Maier, Richard, 3,468,021.
Margreiter, Hermann, 3,422,414.
Massar, Ernst, 3,427,482.
Massar, Ernst, 3,443,255.
Mayer, Gerhard; and Haft, Roland, 3,452,970.
Meer, Winfried; and Hargasser, Hans, 3,428,873.
Meer, Winfried; Hargasser, Hans; and Schembs, Wolfgang, 3,450,964.
Merkel, Hans; and Leibenzeder, Siegfried, 3,480,394.
Mertens, Willi, 3,458,389.
Meyer, Hartmut, 3,474,527.
Meyerer, Paul, 3,436,587.
Meyerer, Paul; and Veith, Werner, 3,475,650.
Michel, Alfred; and Schindler, Heinrich, 3,461,033.
Miederer, Walter; and Kuttner, Hilmar, 3,428,428.
Mogele, Ludwig, 3,421,844.
Mogele, Ludwig, 3,481,698.
Mook, Bruno, 3,450,880.
Mugele, Kurt Willy, 3,481,529.
Muller, Alfred; and Wilhelm, Manfred, 3,442,823.
Muller, Rudolf, 3,449,645.
Muller, Rudolf A., 3,467,914.
Nestler, Wolfgang, 3,454,815.
Niedereder, Martin, 3,423,678.
Nolde, Wolfgang, 3,421,103.
Noss, Cornelius, 3,472,972.
Oesterhelt, Gerhard; de Bucs, Eugen Szabo; Kunert, Alfred; and Rupprecht, Joachim, 3,470,033.
Offner, Manfred; and Yucelen, Yuksel, 3,453,505.
Olsen, Willi; Ochla, Siegfried; and Lieske, Manfred, 3,440,381.
Paul, Bernt; Weiss, Herbert; and Wilhelm, Manfred, 3,439,973.
Peehs, Martin; and Stehle, Heinz, 3,461,523.
Pelka, Horst, 3,462,690.
Pfitzner, Ulrich; and Bantle, Kurt, 3,473,568.
Pfleiderer, Friedrich; Mertel, Heinz; Hoffmann, Erik; and Seidel, Ekkehard, 3,428,753.
Pfleiderer, Friedrich; and Schlichte, Max, 3,433,899.

Polensky, Gerhard; and Raab, Gunter, 3,453,393.
Poschenrieder, Werner F.; and Schlichte, Max, 3,471,711.
Pratsch, Rudolf, 3,423,553.
Radler, Herman, 3,423,519.
Raithel, Kurt, 3,448,051.
Raithel, Kurt; Reuschel, Konrad; and Keller, Wolfgang, 3,461,359.
Reimer, Carl; and Porsch, Hans, 3,431,639.
Reiss, Bruno; and Renner, Theodor, 3,468,638.
Rekewitz, Rudolf, 3,422,946.
Reuschel, Konrad; and Schink, Norbert, 3,446,653.
Reuschel, Konrad, 3,454,367.
Ringelhaan, Otmar, 3,421,020.
Ringelhaan, Otmar, 3,475,559.
Rittmayer, Gerhard, 3,473,067.
Rohrig, Josef, 3,430,000.
Rossberg, Ehrhard, 3,448,206.
Rossner, Wolfgang, 3,459,155.
Ruchardt, Hugo; Hargasser, Hans; and Meer, Winfried, 3,480,845.
Rummel, Werner, 3,439,195.
Rupprecht, Joachim; and Walz, Heinz, 3,449,173.
Ruthrof, Klaus; Schwarzer, Gerhard; Agell, Jose Domenech; Mir, Enrique Veiga; and Artigas, Jesus Colell, 3,481,475.
Sarnezki, Herbert; and Ade, Eberhard, 3,444,418.
Schabert, Hans-Peter, 3,444,038.
Schafer, Hans, 3,470,344.
Schenk, Horst; Gunther, Karl-Georg; and Kulb, Wilhelm, 3,431,625.
Schenk, Horst; and Prolss, Erhard, 3,442,013.
Schenk, Horst, 3,447,350.
Schlichte, Max, 3,433,900.
Schlichte, Max, 3,448,220.
Schlichte, Max, 3,474,355.
Schluter, Klaus, 3,430,139.
Schluter, Klaus, 3,473,113.
Schmid-Zeller, Karl; and Thormann, Heinz, 3,443,043.
Schmidt, Otto, 3,441,385.
Schmidt, Walter; Vitzthum, Dieter; Hoffmann, Herbert; and Katz, Helmut, 3,458,913.
Schunemann, Rudiger; and Sippekamp, Oskar, 3,421,087.
Schwab, Erich; and Birkmann, Theo, 3,462,627.
Schwarz, Horst; and Plorin, Siegfried, 3,427,510.
Seiter, Hartmut; and Zaminer, Christian, 3,424,955.
Seunik, Horst; and Veith, Werner, 3,462,636.
Siebertz, Karl, 3,430,111.
Siebertz, Karl; and Hofmeister, Ernst, 3,487,272.
Sirtl, Erhard, 3,445,300.
Sirtl, Erhard, 3,447,977.
Sirtl, Erhard, 3,460,985.
Sirtl, Erhard; and Seiter, Hartmut, 3,476,640.
Sporrer, Ludwig, 3,447,910.
Stehle, Heinz; Kaden, Werner; and Schaal, Alfred, 3,444,351.
Stenger, Heinrich; and Wilimzig, Herbert, 3,476,103.
Stenger, Herbert; Strossner, Manfred; and Wendler, Friedrich, 3,442,454.
Stich, Johannes, 3,462,649.
Stolze, Georg; and Mayridl, Jakob, 3,422,228.
Strassner, Herbert; and Biederstedt, Ulrich, 3,422,753.
Strobelt, Walter; Huber, Erwin; and Friese, Andreas, 3,449,527.
Sturm, Ferdinand V., 3,480,538.
Sussmann, Erhard, 3,486,933.
Tanke, Ullrich, 3,483,328.
Topas, Benjamin, 3,420,705.
Topfer, Herbert, 3,466,404.
Touchy, Wolfgang, 3,426,424.
Traub, Karl, 3,486,136.
Ullrich, Hans; and Sussmann, Erhard, 3,445,927.
Ulmer, Wolfgang, 3,461,394.
v. Rauch, Moriz, 3,444,427.
v. Sturm, Ferdinand; and Mager, Kurt, 3,454,364.
v. Sturm, Ferdinand; Nischik, Herbert; and Weidlich, Erhard, 3,471,336.
Veith, Werner, 3,473,162.
Vitzthum, Diether, 3,474,281.
Vogelsberg, Dieter, 3,481,127.
Vogt, Herbert, 3,436,603.
Vogt, Herbert, 3,474,306.
Volkl, Walter, 3,419,948.
Volkmann, Werner, 3,435,254.
Von Tomkewitsch, Romuald; and Bosch, Werner, 3,430,020.
Vorbach, Gunther, 3,482,752.
Waller, Siegfried, 3,473,098.
Walther, Albert, 3,472,684.
Walz, Heinz; and Koch, Werner, 3,473,022.
Warden, Hans E., 3,434,684.
Weiss, Herbert, 3,443,854.
Werther, Walter V.; Kunemund, Friedrich; and Albsmeier, Hans, 3,471,645.
Wiesner, Richard, 3,466,741.
Wilhelm, Gunther, 3,425,825.
Wilhelm, Gunther, 3,443,989.
Winkler, Franz; Knodler, Dietheim; and Huber, Gerald, 3,453,178.
Winkler, Franz, 3,467,577.
Winkler, Klaus, 3,432,838.
Winsel, August, 3,481,789.
Winsel, August, 3,484,617.
Winstel, Gunter; Dathe, Joachim; and Zschauer, Karl Heinz, 3,463,681.
Winstel, Gunter; Mettler, Klaus; Zschauer, Karl-Heinz; and Pelka, Horst, 3,478,215.
Wittrowsky, Gunter; and Goppelt, Horst, 3,472,558.
Wolff, Otto; Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst, 3,474,246.
Wolfram, Roland, 3,421,036.
Zickuhr, Walemar, 3,475,108.
Zirwas, Johann Gerhard, 3,431,507.

Siemens Planiawerke A.G. fur Kohlefabrikate: *See*—
Vohler, Otto; and Martina, Renato, 3,468,718.

Siemens-Reiniger-Werke Aktiengesellschaft: *See*—
Taubald, Helmut; and Fleer, Otto, 3,471,125.

Siemens-Schuckertwerke Aktiengesellschaft: *See*—
Justi, Eduard; and Winsel, August, 3,455,804.
Kesselring, Fritz, 3,452,172.
Schmidt, Karl, 3,448,235.

Siemer, Glenn E., to International Business Machines Corporation. Safety arrangement for xerographic fusing apparatus. 3,485,486, 12-23-69, Cl. 263-6.

Siemer, Harm, to Rottendorf, Andreas J., Chemische Fabrik. Therapeutically active secondary and tertiary 1-halogenphenyl-2-amino-alkanones (1). 3,465,039, 9-2-69, Cl. 260-570.5

Siemers, Eric T.: *See*—
Siemers, Eric, 3,450,633.

Siemers, Eric, 1/3 to Siemers, Ida T., and 1/3 to Siemers, Eric T. Phosphate recovery process. 3,450,633, 6-17-69, Cl. 210-54.

Siemers, Ida T.: *See*—
Siemers, Eric, 3,450,633.

Siemietkowski, John S.; and Antkiewicz, Walter D., to United States of America, Navy. Method and apparatus for testing a gas turbine fuel manifold and nozzle assembly. 3,478,580, 11-18-69, Cl. 73-119.

Siemonsen, Frederick A.; and Garriques, Alfred L., to Reynolds Metals Company. Easy open means for bottles and the like. 3,462,036, 8-19-69, Cl. 215-46.

Siempelkamp, Eugen: *See*—
Hutz, Gerhard, 3,450,030.

Siempelkamp, Eugene. Method of and apparatus for the production of pressed board. 3,428,505, 2-18-69, Cl. 156-62.2

Siempelkamp, G., & Co.: *See*—
Hutz, Gerhard, 3,482,675.

Siems, Lee E.; and Reeves, W. Clay, to Digital Data Systems, Inc. Method and means for compositing data. 3,466,596, 9-9-69, Cl. 340-15.5

Siemund, Guenter; Hansen, Hans; and Flittner, Peter, to Hooker Chemical Corporation. Process and composition for the production of protective coatings. 3,450,578, 6-17-69, Cl. 148-6.15

Sienkiewicz, Marvin M.; and Remer, Russell V. Folding stool. 3,467,033, 9-16-69, Cl. 108-150.

Siepmann, Walter, to Stahl-Armaturen Persta G.m.b.H. K.G. Valve and method for producing the same. 3,429,027, 2-25-69, Cl. 29-463.

Siepmann, Walter, to Vogt, Eugen. Valve body for globe valves or the like. 3,473,785, 10-21-69, Cl. 251-366.

Sier-Bath Gear Co., Inc.: *See*—
Kaufman, Samuel; and Conrad, Herbert A., 3,462,971.

Siera, Mark M.; and Davis, Richard G., to Lockheed Aircraft Corporation. Plural track flux gate transducer head with common excitation means. 3,454,727, 7-8-69, Cl. 179-100.2

Sieracki, Leonard M.: *See*—
Campagnuolo, Carl J.; and Sieracki, Leonard M.,3,447,553.

Sieracki, Leonard M., to United States of America, Army. Vortical comparator. 3,452,768, 7-1-69, Cl. 137-38.

Sieracki, Leonard M.; Campagnuolo, Carl J.; and Blodgett, Francis E., to United States of America, Army. Proportional comparator. 3,444,876, 5-20-69, Cl. 137-81.5

Sieren, Gerald E.: *See*—
Moe, Richard G.; and Sieren, Gerald E.,3,454,105.

Sierer, Harry D., to Du Pont de Nemours, E. I., and Company. Process for treating nylon yarns for knitting. 3,459,848, 8-5-69, Cl. 264-235.

Sierichs, William C.: *See*—
Moore, William P.; Sierichs, William C.; and Mac Gregor, Rob Roy,3,447,901.
Moore, William Percy; Sierichs, William Cornell; and MacGregor, Rob Roy,3,481,702.

Sieron, Jerry K., to United States of America, Air Force. High strength, heat resistant fluoroelastomers. 3,438,932, 4-15-69, Cl. 260-41.

Sieron, Jerry K., to United States of America, Air Force. Method of post curing a benzoyl peroxide cured fluoroelastomer composition. 3,452,126, 6-24-69, Cl. 264-102.

Sierra Electric Corporation: *See—*
Gaines, Jack H.; and Edmisson, Russell C., 3,432,611.
Sierra Engineering Co.: *See—*
Hotz, Leo F.; and Wilcox, Orland W., 3,467,093.
Sierra Engineering Company: *See—*
Bloom, Aaron; Wilcox, Orland W.; and Mate, Peter I., 3,459,216.
Huddy, Robert A., 3,469,580.
Sierra, Octavia Vasquez: *See—*
Castiello, Ignacio Aranguren; Sierra, Octavia Vasquez; and Olnick, Jay E.,3,446,663.
Sierra, Octavio Vasquez: *See—*
Castiello, Ignacio Aranguren; Sierra, Octavio Vasquez; and Olnick, Jay E.,3,446,665.
Sierra Research Corporation: *See—*
Bates, Martin R.; Prast, Johannes W.; and Scott, William V., 3,440,652.
Lennon, William T., Jr.; and Reinagel, Frederick G., 3,487,407.
Michnik, Lewis, 3,458,861.
Reinagel, Frederick G., 3,454,948.
Sierracin Corporation, The: *See—*
Da Fano, Ettore, 3,437,715.
Warren, Robert A., 3,469,015.
Siess, Gerhard, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Voltage-frequency-transducer with a device for compensating zero line drift. 3,486,091, 12-23-69, Cl. 318-18.
Siestrunck, Raymond: *See—*
Fabri, Jean; Friberg, Jean Marie Eugene; Maginot, Pierre Henri Jean; Merigoux, Jean Marie; and Siestrunck, Raymond,3,447,740.
Sietmann, Vernon H., 50% to Dendel, Gerald F. 10% to Smith, Wanda, and Smith, Raymond 10% to Keese, Beth, and Keese, Larry. Apparatus for and process of drying grain. 3,479,748, 11-25-69, Cl. 34-33.
Sietmann, Vernon H.: *See—*
Louks, Robert A.; and Sietmann, Vernon H.,3,456,652.
Sieurin, Donald; and Hill, William J., to Morgan Construction Company. Axial roll adjusting mechanism. 3,429,167, 2-25-69, Cl. 72-247.
Sieverkropp, Earl G., to Twin Disc, Incorporated. Hydraulically operated friction clutch of the dual actuating chamber type. 3,470,988, 10-7-69, Cl. 192-87.15
Sievers, Hans, to Demag Aktiengesellschaft. Bridge roadway construction. 3,425,077, 2-4-69, Cl. 14-73.
Sievers, Max A. Guide for welding wire. 3,470,349, 9-30-69, Cl. 219-136.
Sievers, Robert E.: *See—*
Eisentraut, Kent J.; and Sievers, Robert E.,3,429,904.
Eisentraut, Kent J.; and Sievers, Robert E.,3,453,319.
Sievers, Roland: *See—*
Pohlman, Reimar; and Sievers, Roland,3,426,951.
Sievers, Willi: *See—*
von Waldeck, Friedrich-Carl; and Sievers, Willi,3,486,958.
Sievert, William C.: *See—*
Rucoba, Robert; and Sievert, William C.,3,445,298.
Sieving, Alfred W.: *See—*
Beals, Duane E.; Berchtold, Donald R.; O'Brien, James W.; Rosenberger, Paul C.; Sieving, Alfred W.; and Smith, Kerwyn B.,3,448,816.
Siewert, Hans Wolfgang, to Wyss, Escher, G.m.b.H. Laboratory apparatus for determining the industrial beating behaviour of cellulose or paper pulp. 3,464,637, 9-2-69, Cl. 241-37.
Siff, Elliott J.; and Schaffer, Irving, to American Chain & Cable Company, Inc. Variable inductor having armature movable in air gap. 3,436,706, 4-1-69, Cl. 336-134.
Sifniades, Stylianos: *See—*
Fuhrmann, Robert; Sifniades, Stylianos; and Jerolamon, David,3,458,419.
Fuhrmann, Robert; Sifniades, Stylianos; and Lazar, Emery C.,3,464,905.
Sifon Corporation, The: *See—*
Phelps, Morton E.; and Bell, Tommy O., 3,421,695.
Sift, Brian Stanley: *See—*
Dickinson, George Alfred; and Sift, Brian Stanley,3,481,727.
Sigal, Burton C.: *See—*
Shively, Richard P.; and Sigal, Burton C.,3,469,249.
Sigg, Ernest B., to Geigy Chemical Corporation. 3-(p-halophenyl)-3-(2'-pyridyl-N-methylpropylamine for the treatment of depression. 3,423,510, 1-21-69, Cl. 424-263.
Sigg, Hans-Peter; Flury, Erich; and Hauser, Daniel, to Sandoz Ltd, a/k/a Sandoz A.G. Anguidine derivatives. 3,428,652, 2-18-69, Cl. 260-326.3
Sigg, Hans-Peter; and Loeffler, Wolfgang, to Sandoz Ltd., a/k/a Sandoz A.G. Production of radicicol. 3,428,526, 2-18-69, Cl. 195-80.
Sigg, Hans-Peter; and Stoll, Christian, to Sandoz Ltd., a/k/a Sandoz A.G. Antibiotic SL 2266. 3,432,598, 3-11-69, Cl. 424-122.
Sigg, Hans-Peter; and Stoll, Christian, to Sandoz Ltd., a/k/a/ Sandoz A.G. Antibiotic SL 1846. 3,465,079, 9-2-69, Cl. 424-122.
Siggel, Erhard; and Rein, Walter, to Vereinigte Glanzstoff-Fabriken AG. Process for sheet forming polyethylene terephthalate. 3,429,854, 2-25-69, Cl. 260-75.
Siggel, Erhard; and Rein, Walter, to Vereinigte Glanzstoff-Fabriken AG. Process for the production of non-woven webs. 3,441,468, 4-29-69, Cl. 161-169.
Siggel, Erhard; and Rein, Walter, to Vereinigte Glanzstoff-Fabriken AG. Foam polyesters and process of making same. 3,470,114, 9-30-69, Cl. 260-2.5
Siggel, Erhard: *See—*
Kroes, Gerardus Henricus; Siggel, Erhard; Schopf, Albert; and Meyer, Gerhard,3,429,849.
Schopf, Albert; Siggel, Erhard; and Meyer, Gerhard,3,420,888.
Siggia, Sidney: *See—*
Stahl, Clarence Richard; and Siggia, Sidney,3,454,558.
Sigler, Harold: *See—*
Hancock, John R.; and Sigler, Harold,3,479,452.
Sigloch, Eugen: *See—*
Baublys, Mikas; Sigloch, Eugen; and Stark, Gotthilf,3,433,102.
Sigma Chemical Company: *See—*
Broida, Daniel, 3,468,289.
Sigma Industries, Inc.: *See—*
Weagant, William D., 3,423,518.
Sigma Instruments, Inc.: *See—*
Marx, Thomas I., 3,482,212.
Stein, Laurence B., Jr., 3,422,315.
Sigma Research, Incorporated: *See—*
Uchida, Ryo, 3,470,809.
Sigman, Earl H.: *See—*
Auzins, Raimunds; Sigman, Earl H.; and Schneider, Alfred,3,469,716.
Sigman, Theodore, to Salada Foods Ltd. Method and tea powder for agglomeration. 3,463,642, 8-26-69, Cl. 99-77.
Sigmatex AG: *See—*
Weman, Per Olaf, 3,476,333.
Signal Oil & Gas Company: *See—*
Anderson, John E.; Parish, Clyde E.; and Ross, George H., 3,445,497.
Signal-Lite Road Marker Co.: *See—*
Asbury, Edward G., 3,478,715.
Signatection Inc.: *See—*
Frazer, John F.; Holzman, Richard; Ide, Kenton J.; and Moore, Richard K., 3,441,850.
Holzman, Richard; and Ide, Kenton J., 3,441,717.
Ide, Kenton J.; and Frazer, John F., 3,441,860.
Signetics Corporation: *See—*
Allison, David Frank, 3,427,212.
Bodine, Charles M., 3,441,853.
Suverkropp, Claus P. J., 3,435,949.
Signode Corporation: *See—*
Beach, John R., 3,447,208.
Ericsson, Arvid I., 3,442,734.
Goland, David V.; and Stapleton, Samuel E., 3,450,028.
Howard, Frank C., 3,468,590.
Huson, Gale, 3,429,095.
Kobiella, Robert J., 3,420,158.
Kobiella, Robert J., 3,442,203.
Leslie, John H.; and Hubbard, Otis E., 3,468,241.
Sauer, Leo Peter; and Huson, Gale, 3,443,512.
Shelton, Lawrence S., 3,421,951.
Stensaker, Lee A.; Heymann, Seymour E.; Young, Hobart P.; and Vilcins, Ilmar J., 3,442,732.
Stensaker, Lee A., 3,442,735.
Sutter, Warren H.; and Kramer, Donald F., 3,451,544.
Vilcin, Ilmar J., 3,442,733.
Signon, Anni: *See—*
Meininger, Fritz; Signon, Anni; and Berner, Klaus,3,445,450.
Signorile, Eugene R., to Accurate Electronics Co. Vehicle lamp electrical warning device. 3,421,143, 1-7-69, Cl. 340-75.
Signouret, Jean-Baptiste, to Societe Nationale des Petroles d'Aquitaine. Sulphur-based plastic composition. 3,459,717, 8-5-69, Cl. 260-79.
Signouret, Jean-Baptiste, to Societe Nationale des Petroles d'Aquitaine. Adhesive plasticised sulphur containing an olefine polymer. 3,465,064, 9-2-69, Cl. 260-878.
Sigoda, Victor J., to Man-Sew Corporation. Combined sewing and ironing mechanism. 3,478,451, 11-18-69, Cl. 38-10.
Sigorsky, Vitaly Petrovich; Molchanov, Alexandr Artemjevich; Sitnikov, Leonid Semenovich; and Utjakov, Lev Lazarevich, to Institute Matematiki SOAN. Device with many stable states of equilibrium. 3,423,703, 1-21-69, Cl. 334-15.
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich; Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich, to Institute Matematiki Sibirskogo Otdelenia Akademii Nauk U.S.S.R. Pulse width control system with N-stable states of dynamic equilibrium. 3,430,150, 2-25-69, Cl. 328-205.
Sigri Elektrographit GmbH.: *See—*
Rubisch, Ottmar, 3,459,583.
Sigrist, Paul: *See—*
Page, Peter Colin; Rous, Ronald Frank; Sigrist, Paul; and Ward, Peter William,3,423,539.
Sih, Kwang Y.: *See—*
Hsiao, Mu-Yue; and Sih, Kwang Y.,3,452,328.

S I Handling Systems, Inc.: *See—*
Bradt, Lynn J., 3,467,025.
Bradt, Lynn J., 3,478,697.

Sihvonen, Yro T.; Boyd, David R.; and Kitts, Earle L., Jr.; to Texas Instruments Incorporated. Light responsive variable capacitor. 3,426,209, 2-4-69, Cl. 250-211.

Siiberg, Hemming G., to Wagner Electric Corporation. Snap action blade flasher. 3,470,515, 9-30-69, Cl. 337-138.

Siiberg, Hemming G., to Wagner Electric Corporation. Voltage compensated series flasher circuit. 3,483,436, 12-9-69, Cl. 317-123.

Siiro, Nestor Peter, to Omark Industries, Inc. Tree harvester. 3,461,928, 8-19-69, Cl. 144-3.

Siivola, Ralph: *See—*
Johnson, Theodore W.; and Siivola, Ralph,3,477,184.

Sijbring, Pieter Herman, to Instituut voor Bewaring en Verwerking van Landbouwprodukten. Method for peeling potatoes or similar tubers, bulbs, roots, or fruits and an apparatus for carrying out this method. 3,460,162, 8-5-69, Cl. 146-225.

Sika Holding A.G.: *See—*
Byttebier, Carlos, 3,432,969.

Sikes, Richard L.; and Giannamore, Ronald, to United Aircraft Corporation. Inverter stability control regulating the firing time of power controlled rectifiers. 3,439,252, 4-15-69, Cl. 321-11.

Sikkema, Andrew J.: *See—*
Hall, Richard H.; Lamson, Junior J.; Sikkema, Andrew J.; and Roberts, Carleton W.,3,424,823.
Hall, Richard H.; Lamson, Junior L.; and Sikkema, Andrew J.,3,426,103.

Siklos, Gregory, to Marbelite Company, Inc., The. Traffic signal hanger. 3,424,509, 1-28-69, Cl. 312-223.

Sikora, Josef, to Canadian Industries Limited. Dihydropyranyl polyesters. 3,480,650, 11-25-69, Cl. 260-345.8

Sikorski, Frank B.: *See—*
Cochran, Alfred S.; and Sikorski, Frank B.,3,466,401.

Sikorski, Karol S., to Bell Telephone Laboratories, Incorporated. Calling line terminal identifier. 3,462,556, 8-19-69, Cl. 179-18.

Sikorski, Mathew E., to Bell Telephone Laboratories, Incorporated. Semiconductive transducers. 3,454,845, 7-8-69, Cl. 317-235.

Siksai, Anthony, to Visorama Printed Motions Company. Light intercepting sheet for an illuminated display device. 3,437,401, 4-8-69, Cl. 350-159.

Sikyta, Bohumil: *See—*
Culik, Karel; Herold, Milos; Palkoska, Josef; Sikyta, Bohumil; and Slezak, Josef,3,429,781.

Silaco Chemical Company: *See—*
Ellison, Hal J., 3,422,183.

Silas, Robert S., to Phillips Petroleum Company. Analysis method employing ionization potential of metastable krypton atoms for detecting unsaturated compounds. 3,462,261, 8-19-69, Cl. 73-23.1

Silbereis, Joseph A.; Holloway, Richard D.; and Sadler, Kenneth B., to Huffman Manufacturing Company, The. Soil tilling device. 3,442,335, 5-6-69, Cl. 172-43.

Silberglait, Harry: *See—*
Greenwald, Harry, 3,444,712.

Silberkuhl, Wilhelm Johannes. Consruction element. 3,439,459, 4-22-69, Cl. 52-18.

Silberman, Henri C., to Philip Morris Incorporated. Reinforced reconstituted tobacco sheet. 3,459,195, 8-5-69, Cl. 131-17.

Silberman, Ira J.: *See—*
Ammondson, Clayton J.; Cockrell, Eldridge H.; Silberman, Ira J.; and James, Forrest H., Jr.,3,464,692.

Silberman, Ira J., to Diversified Products Corporation. Handle for stretchable exercising device. 3,427,023, 2-11-69, Cl. 272-82.

Silbermann, Klaus; and Maurer, Frederick, to Cryodry Corporation. Access opening construction for microwave chambers. 3,474,210, 10-21-69, Cl. 219-10.55

Silentbloc Limited: *See—*
Kidby, James C., 3,482,829.

Sileo, Francis R.: *See—*
Simon, Donald R.; Rogers, Kenneth C.; and Sileo, Francis R.,3,426,233.

Sileo, Francis, to Espey Mfg., & Electronics Corporation. Flashtube for mounting on a space vehicle. 3,466,490, 9-9-69, Cl. 313-318.

Siler, Albert E., to North American Rockwell Corporation. Structure for assembling annular tensioned recording discs. 3,480,964, 11-25-69, Cl. 346-74.

Silgailis, John, to Mallory, P. R., & Co., Inc. Manganous nitrate-catalytic agent solution for solid electrolyte capacitor. 3,467,895, 9-16-69, Cl. 317-230.

Silgailis, John, to Mallory, P. R., & Co., Inc. Electrolyte capacitor having a seeded manganese oxide dielectric layer. 3,473,092, 10-14-69, Cl. 317-230.

Silhouette, Jean-Max Marie: *See—*
Aubert, Jacques; and Silhouette, Jean-Max Marie,3,472,028.

Siliconix Inc.: *See—*
Compton, James B.; and Zieber, Frederick L., 3,453,504.

Silin, Mikhail Danilovich: *See—*
Shonin, Leonid Nikolaevich; Konoplev, Jury Sergeevich; Komarov, Jury Alexandrovich; Ivanov, Igor Nikolaevich; Silin, Mikhail Danilovich; Veyalis, Nina Petrovna, and; and Karpinskaya, Vera Borisovna,3,443,432.

Silitron Corporation: *See—*
Ogle, Robert W., 3,472,643.

Silks, Walter: *See—*
Dekan, Vincent A.; and Silks, Walter,3,424,500.

Silks, Walter, to Westinghouse Air Brake Company. Corner sprocket retraction device. 3,481,650, 12-2-69, Cl. 299-59.

Sill, Thomas E.: *See—*
Mac Lean, Archibald, Jr.; Maskell, Richard M.; Sill, Thomas E.; and Wagner, William F.,3,463,357.

Silla, Cuccolini. Centrifugal separator. 3,460,750, 8-12-69, Cl. 233-20.

Sillano, Pietro, to Necchi Societa per Azioni. Adjustable brush holder assembly for commutator of electric motors. 3,480,813, 11-25-69, Cl. 310-241.

Sillion, Bernard: *See—*
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel,3,461,096.
Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel,3,471,453.
Rabilloud, Guy; Sillion, Bernard; and de Gaudermaris, Gabriel,3,476,590.
Salle, Robert; Sillion, Bernard; and de Gaudemaris, Gabriel,3,470,140.

Sillman, David: *See—*
Lempert, Irving E.; and Sillman, David,3,427,408.

Sills, Frederick Arthur, to Crompton Parkinson Limited. Electrical measuring instrument liquid damping means. 3,439,273, 4-15-69, Cl. 324-125.

Silly, Jean-Pierre: *See—*
Osgan, Maseh; Silly, Jean-Pierre; and Teyssie, Philippe,3,432,445.

Silsbee, David L.: *See—*
Houck, William E.; Maerz, Michael O.; Oliver, Burton L.; and Silsbee, David L.,3,473,114.

Siltronics, Inc.: *See—*
Hockenberry, Terry O.; and Williams, Everard M., 3,456,087.

Silva, Edmund J., to Reliance Electric and Engineering Company, The. Dynamoelectric machine stator yoke with keyed salient poles. 3,445,702, 5-20-69, Cl. 310-191.

Silva, John R.; and Turtle, Quentin C., to General Signal Corporation. Negative feedback circuit employing combination amplifier and lead-lag compensation network. 3,465,276, 9-2-69, Cl. 328-142.

Silva, Joseph W., to Olin Mathieson Chemical Corporation. Frangible target and method of manufacture. 3,469,411, 9-30-69, Cl. 62-66.

Silva, Joseph W.; and Staba, Edward A., to Olin Mathieson Chemical Corporation. Caseless smokeless powder pellet and method of preparing same. 3,463,086, 8-26-69, Cl. 102-38.

Silva, Joseph. Air deflector for supersonic aircraft. 3,425,650, 2-4-69, Cl. 244-130.

Silva, Pinho & Cruz, Limitada: *See—*
da Silva, Augusto Tavares, 3,455,125.

Silva, William C.: *See—*
Knerr, Carl J.; Silva, William C.; and Hartley, Curtis R.,3,425,437.

Silvain, Andre Henri, to Pilot Research Corporation. Form-fitting seamless garment and method. 3,479,844, 11-25-69, Cl. 66-176.

Silvander, Ake. Apparatus for producing articles from a plastic or fluid substance. 3,439,604, 4-22-69, Cl. 99-431.

Silveco Products, Inc.: *See—*
Silverman, Abe, 3,464,418.

Silver, Bernard; and Bolta, Christian C., to Susquehanna Corporation, The. Launcher using a vaporing liquid as a projectile propelling means. 3,430,619, 3-4-69, Cl. 124-11.

Silver, Francis M.: *See—*
Fraze, Ermal C.; and Silver, Francis M.,3,432,068.

Silver, Gary L., to United States of America, Atomic Energy Commission. Separation of uranium and thorium from plutonium. 3,443,912, 5-13-69, Cl. 23-333.

Silver, Gary L.: *See—*
Lonadier, Frank D.; Brown, Willard B.; Fushimi, Fred C.; and Silver, Gary L.,3,438,749.

Silver, Harold F.; and Price, Frank B., to American Factors Associates, Limited. Press for separating liquids from solids. 3,431,839, 3-11-69, Cl. 100-158.

Silver, Harold F.; Steele, Clarence R.; and Price, Frank B., to American Factors Associates, Limited. Apparatus for solvent extraction of subdivided solids. 3,443,905, 5-13-69, Cl. 23-269.

Silver, Howard Bernard; and Thompson, Raymond, to United States Borax & Chemical Corporation. Organometallic derivatives of arsenic and antimony. 3,422,125, 1-14-69, Cl. 260-414.

Silver, Joseph M.: *See—*
Carver, Norman E.; and Silver, Joseph M.,3,440,674.

Silver, Joseph M., to Ogden Iron Works Company. Roll screen for cleaning root crops. 3,451,084, 6-24-69, Cl. 15-3.11

Silver, Joseph R., to Ingelstroem-Oberlin, Inc., mesne. Soil-conditioning apparatus and method. 3,485,480, 12-23-69, Cl. 259-9.

Silver, Jules. Combination plastic mold, suppository package, dispenser and method for providing and using the same. 3,424,158, 1-28-69, Cl. 128-260.

Silver, Melvyn D.: *See—*
Merrin, Seymour; Silver, Melvyn D.; and Suden, Edward M.,3,436,818.
Silver, Robert S.: *See—*
Perlman, Stuart S.; and Silver, Robert S.,3,450,966.
Silver, Robert S., to Weir Westgarth Limited. Multi-stage flash evaporation having plural feed flow patterns. 3,457,144, 7-22-69, Cl. 203-22.
Silver, Sandra B. Paint easel, tray and liner therefor. 3,467,259, 9-16-69, Cl. 211-74.
Silver, Stanley Milton. Knife for cutting tear-lines in cardboard and method for forming the same. 3,463,039, 8-26-69, Cl. 83-139.
Silver, Stanley Milton. Method of forming cartons. 3,485,008, 12-23-69, Cl. 53-47.
Silver Top Manufacturing Company, Inc.: *See—*
Struben, Francis L., 3,451,180.
Silver Top Manufacturing Company, Inc., The: *See—*
Struben, Francis L., 3,427,062.
Silver, Wallace E.; and Sherman, Jack, to United States of America, Navy. Inert simulant composition for a plastic bonded explosive. 3,457,329, 7-22-69, Cl. 260-857.
Silver-Top Manufacturing Company, Inc.: *See—*
Struben, Francis L.; and Plowman, Paul M., 3,426,591.
Silverberg, Bernard M.: *See—*
Muschinske, Richard J.; and Silverberg, Bernard M.,3,471,774.
Silverberg, Julius: *See—*
Philen, Otis D., Jr.; Silverberg, Julius; and Norton, Melvin,3,423,199.
Silverman, Abe, to Silveco Products, Inc. Molded seamless brassiere pads. 3,464,418, 9-2-69, Cl. 128-481.
Silverman, Allyn M.: *See—*
Downey, Rogers B.; and Silverman, Allyn M.,3,437,023.
Downey, Rogers B.; and Silverman, Allyn M.,3,437,024.
Silverman, Allyn M.; and Triggs, Charles W., to Polaroid Corporation. Photographic apparatus. 3,446,127, 5-27-69, Cl. 95-12.
Silverman, Alvin J.; and Diamond, Albert, to Vernitron Corporation. Electromagnetic rotary indicating device. 3,470,509, 9-30-69, Cl. 335-229.
Silverman, Alvin J.; and Diamond, Albert, to Vernitron Corporation. Electro-mechanical read-out device. 3,479,626, 11-18-69, Cl. 335-266.
Silverman, Alvin J.; and Steinberg, Stanley, to Vernitron Corporation. Asymmetric rotor plate means for an electromagnetic indicating apparatus. 3,478,288, 11-11-69, Cl. 335-229.
Silverman, Bernard A.; Thompson, Brian J.; and Parrent, George B., Jr., to United States of America, Air Force. Particle size and distribution analysis using spatial filtering techniques. 3,451,755, 6-24-69, Cl. 356-102.
Silverman, Bernard P.; and Currie, Harold B., to RCA Corporation. Character reader. 3,465,288, 9-2-69, Cl. 340-146.3
Silverman, Bernard, to Monsanto Company. Polyamide molding composition. 3,475,365, 10-28-69, Cl. 260-32.6
Silverman, Daniel. Method and apparatus for driving and lining an underground conduit. 3,422,631, 1-21-69, Cl. 61-72.1
Silverman, Daniel. Random access magnetic tape memory system. 3,423,743, 1-21-69, Cl. 340-174.1
Silverman, Daniel, to Pan American Petroleum Corporation. Cross-correlator. 3,432,648, 3-11-69, Cl. 235-181.
Silverman, Daniel. Method and apparatus for everting under pressure a tubular probe into a body cavity. 3,433,214, 3-18-69, Cl. 128-2.
Silverman, Daniel. Apparatus for placing in and retrieving a tubular probe from a body conduit. 3,433,215, 3-18-69, Cl. 128-2.
Silverman, Daniel. Examining-sorting system with cyclic rejection means. 3,444,997, 5-20-69, Cl. 209-73.
Silverman, Daniel, to Pan American Petroleum Corporation. Elastic-wave holography. 3,450,225, 6-17-69, Cl. 181-0.5
Silverman, Daniel, to Pan American Petroleum Corporation. Nuclear fracturing and heating in water flooding. 3,451,478, 6-24-69, Cl. 166-272.
Silverman, Daniel, to Pan American Petroleum Corporation. Stabilizing a floating vessel. 3,460,501, 8-12-69, Cl. 114-0.5
Silverman, Daniel, to Pan American Petroleum Corporation. Wavelet reconstruction process of increased resolution. 3,461,420, 8-12-69, Cl. 340-1.
Silverman, Daniel, to Pan American Petroleum Corporation. Formation nuclear fracturing process. 3,464,490, 9-2-69, Cl. 166-245.
Silverman, Daniel, to Pan American Petroleum Corporation. Seismic surveying using truncated monofrequency wave trains. 3,474,404, 10-21-69, Cl. 340-15.5
Silverman, Daniel, to Pan American Petroleum Corporation. Optical display system using controlled deflections of a collimated beam of radiant energy. 3,474,459, 10-21-69, Cl. 346-108.
Silverman, Daniel, to Pan American Petroleum Corporation. Seismic wave source for marine prospecting. 3,481,426, 12-2-69, Cl. 181-0.5
Silverman, Daniel, to Pan American Petroleum Corporation. Horizontal drilling of well bores from tunnels. 3,486,571, 12-30-69, Cl. 175-5.
Silverman, Elliott; and Cohen, Morton. Orthodontic appliance. 3,421,221, 1-14-69, Cl. 32-14.
Silverman, Elliott; and Cohen, Morton. Orthodontic appliance. 3,461,559, 8-19-69, Cl. 32-14.
Silverman, Elliott; and Cohen, Morton. Orthodontic appliance. 3,464,112, 9-2-69, Cl. 32-14.
Silverman, Elliott; and Cohen, Morton. Orthodontic appliance. 3,464,113, 9-2-69, Cl. 32-14.
Silverman, Joseph R.: *See—*
Glenn, John D.; Robbins, Owen G.; Schwemer, Warren C.; and Silverman, Joseph R.,3,431,753.
Silverman, Meyer S., to Pennsalt Chemicals Corporation. Molybdenum diselenide having a rhombohedral crystal structure and method of preparing same. 3,472,621, 10-14-69, Cl. 23-204.
Silverman, Seymour: *See—*
Preston, Harold, 3,467,289.
Silverman, Sydney: *See—*
Morris, Arthur R.; Provencher, Camille L.; and Silverman, Sydney,3,426,398.
Silvern, David H., to Dresser Industries, Inc. Compressor apparatus. 3,426,964, 2-11-69, Cl. 230-114.
Silvernail, Walter L., to American Potash & Chemical Corporation. Process for rejuvenating spent glass polishing agents. 3,436,199, 4-1-69, Cl. 51-293.
Silverstein, Louis: *See—*
Dean, Jesse W.; and Silverstein, Louis,3,434,233.
Silverstein, Raymond E.: *See—*
McLogan, Russell E.; Silverstein, Raymond E.; and Szosteki, Walter J.,3,455,355.
Silverstein, Samuel: *See—*
Gutleber, Frank S.; Levine, Elihu; Bogert, Warren D.; Silverstein, Samuel; and Altman, Harry,3,483,549.
Silverstone, Norman Mark, to International Nickel Company, Inc., The. Activation of nickel foil and product so produced. 3,441,440, 4-29-69, Cl. 136-29.
Silverwood, Philip J.; and Winship, Foryst J. Vehicle light and horn signalling control system Extendable intrasection hydrophone arrays. 3,436,728, 4-1-69, Cl. 340-7.
Silvey, Gene A.: *See—*
Regh, Joseph; Silvey, Gene A.; and Gardiner, James R.,3,436,259.
Silvey, Harry J., to Modine Manufacturing Company. Damper assembly. 3,447,443, 6-3-69, Cl. 98-110.
Silvia, Denis A.; Ramsey, Richard T.; and Spencer, John H., to United States of America, Navy. Explosive gate, diode and switch. 3,430,564, 3-4-69, Cl. 102-22.
Silvia, Everett R.: *See—*
Litman, Bernard; Silvia, Everett R.; and Stabile, Christopher,3,479,888.
Silvia, John, Jr.: *See—*
De Fazio, Benjamin S.; Silvia, John, Jr.; and Zemme, Caesar J.,3,449,764.
Silvius, Paul, to Westinghouse Electric Corporation. Indicating lamp housing. 3,438,027, 4-8-69, Cl. 340-381.
Silvius, Paul, to Westinghouse Electric Corporation. Contact assembly for electrical apparatus. 3,440,382, 4-22-69, Cl. 200-166.
Silvon, Kay, to Omark Industries, Inc. Top sharpening, floating sprocket chain saw. 3,435,860, 4-1-69, Cl. 143-32.
Silvon, Kay, to Omark Industries, Inc. File guide for a chain saw. 3,438,286, 4-15-69, Cl. 76-36.
Silvon, Kay, to Omark Industries, Inc. Quick-detachable sharpeners for chain saws. 3,465,617, 9-9-69, Cl. 76-25.
Silvon, Kay, to Omark Industries, Inc. Top sharpenable saw chain. 3,469,610, 9-30-69, Cl. 143-135.
Silvray Litecraft Corporation: *See—*
Piccola, Richard C., 3,430,039.
Silwell, Frances Hunt: *See—*
Stilwell, William E., Jr.,3,436,934.
Silwer, Jan: *See—*
Dahlblom, Rolf August; Edstrom, Nils Herbert; and Silwer, Jan,3,469,021.
Simak, Frank J.: *See—*
DiVita, Fosco L.; Simak, Frank J.; and D'Alessandro, Andrew N.,3,486,417.
Simco Company, Inc., The: *See—*
Barnett, Guy F., 3,473,097.
Barnett, Guy F., 3,480,364.
Levy, Warren W., 3,475,652.
Schweriner, Harold, 3,443,155.
Testone, Anthony Q., 3,448,356.
Simeone, Joseph A., Jr.: *See—*
Amatruda, Joseph A., 3,457,568.
Simeti, Samuel. Toothbrush holder. 3,450,269, 6-17-69, Cl. 211-65.
Simich, Emil, to Interlake Steel Corporation. Vibrating wall continuous casting device with starter means. 3,474,000, 10-21-69, Cl. 164-274.
Siminski, Michael C., Jr.: *See—*
Pettigrew, Carl K.; Siminski, Michael C., Jr.; and Swavely, Donald F.,3,431,887.
Simit Societa per Azioni: *See—*
Ocule, Oreste, 3,442,344.
Simjian, Luther G. Article delivery system. 3,420,336, 1-7-69, Cl. 186-1.

Simjian, Luther G., to General Research Inc. Postage metering system. 3,428,948, 2-18-69, Cl. 340-147.
Simjian, Luther G., to General Research, Inc. Computing and recording system. 3,441,714, 4-29-69, Cl. 235-61.6
Simjian, Luther G. Apparatus for preparing a beverage. 3,469,521, 9-30-69, Cl. 99-287.
Simkins, Quinton W., to International Business Machines Corporation. Magnetic film storage systems providing cancellation of spurious noise signals. 3,435,429, 3-25-69, Cl. 340-174.
Simkins, Quinton W.; and Vogl, Norbert G., Jr., to International Business Machines Corporation. Storage sensing system for a magnetic matrix employing two storage elements per bit. 3,471,839, 10-7-69, Cl. 340-174.
Simko, Aladar O., to Ford Motor Company. Integrated fuel injection and ignition distributor assembly. 3,446,198, 5-27-69, Cl. 123-140.
Simko, Aladar Otto, to Ford Motor Company. Fluid flow control valve assembly. 3,439,705, 4-22-69, Cl. 137-543.23
Simm, Walter, to Agfa-Gevaert Aktiengesellschaft. Apparatus for developing electrostatic charge images. 3,470,850, 10-7-69, Cl. 118-637.
Simm, Walter: *See—*
Weisbeck, Roland; Fitzky, Hans-Georg; Simm, Walter; and Heyl, Gerhard,3,467,497.
Simmen, Robert, to Mefina S.A. Safety system for the fuse of a gyratory missile. 3,465,676, 9-9-69, Cl. 102-80.
Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen- Kessel- und Waggonbau: *See—*
Fritsch, Felix, 3,456,520.
Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kessel-und Waggonbau: *See—*
Fritsch, Felix, 3,479,909.
Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kassel-und Waggonbau: *See—*
Volker, Helmut, 3,425,556.
Simmler, Walter: *See—*
Dahm, Manfred; and Simmler, Walter,3,420,782.
Niederprum, Hans; and Simmler, Walter,3,448,137.
Niederprum, Hans; Horn, Elmar-Manfred; and Simmler, Walter,3,458,553.
Niederprum, Hans; Simmler, Walter; and Horn, Elmar-Manfred,3,446,830.
Sattlegger, Hans; Simmler, Walter; Noll, Walter; and Niederprum, Hans,3,449,393.
von der Emden, Wolfgang; Simmler, Walter; and Wagner, Kuno,3,483,161.
Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. 2-Sila-1,4-dioxan compounds and production. 3,475,478, 10-28-69, Cl. 260-448.8
Simmler, Walter; and Niederprum, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of organosiloxanes. 3,481,962, 12-2-69, Cl. 260-448.2
Simmler, Walter; and Niederprum, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Organopolysiloxanes having terminal hydroxymethyl groups and process therefor. 3,481,963, 12-2-69, Cl. 260-448.2
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production cf 2,2,6,6-tetramethyl- 2,6-disila-1,4-dioxan. 3,437,679, 4-8-69, Cl. 260-448.2
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of hydroxymethylsiloxanes. 3,442,925, 5-6-69, Cl. 260-448.2
Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans, to Farbenfabriken Bayer Aktiengesellschaft. 2,2,5,5-Tetramethyl-2,5-disila-1,3-dioxolan and process therefor. 3,444,228, 5-13-69, Cl. 260-448.8
Simmon, Gerhard. Supporting device for summer flowers. 3,470,651, 10-7-69, Cl. 47-45.
Simmon, Gerhard; and Siebert, Hans. Gramophone record container. 3,454,316, 7-8-69, Cl. 312-10.
Simmond Precision Products, Inc.: *See—*
Philipps, David J.; and Lamphere, David A., 3,478,587.
Simmonds, Alma Beryl: *See—*
Beckett, Arnold Heyworth; Harper, Norman James; and Simmonds, Alma Beryl,3,462,444.
Simmonds Precision Products, Inc.: *See—*
Austin, Larry E.; and Titcomb, Francis R., 3,478,925.
Cohn, Irving H., 3,451,406.
Cohn, Irving H.; and De Nardo, Frank, 3,463,980.
Kadlec, Ladislav, 3,460,011.
Kraushaar, Robert J., 3,463,920.
Mathews, Edward C., 3,479,591.
Polidor, Herbert C., 3,463,028.
Sargent, Raymond W., 3,440,878.
Sargent, Raymond W., 3,471,665.
Simmons, Arthur W.; and Washbourn, Jack, to Westinghouse Brake and Signal Company, Limited. Brake distributor apparatus. 3,425,753, 2-4-69, Cl. 303-36.
Simmons, Arthur W.; and Washbourn, Jack, to Westinghouse Brake and Signal Company, Limited. Automatic release valves. 3,447,563, 6-3-69, Cl. 137-495.
Simmons, Arthur W.; and Washbourn, Jack, to Westinghouse Brake and Signal Company, Limited. Distributors for braking apparatus. 3,459,227, 8-5-69, Cl. 137-627.5
Simmons, Billy H.: *See—*
Dotson, Ronald L.; and Simmons, Billy H.,3,437,476.
Simmons, Bruce: *See—*
McIlvenny, James, 3,465,556.
Simmons, Charles W., Jr.: *See—*
Herkness, Frank G.; and Simmons, Charles W., Jr.,3,434,215.
Simmons, Dayton Mark, to International Paper Company. Locking device for rotary plate carrier sheet. 3,430,561, 3-4-69, Cl. 101-415.1
Simmons, Derrick George; and Smith, James, to U.S. Philips Corporation, mesne. Cold-cathode glow-discharge ring laser. 3,473,143, 10-14-69, Cl. 331-94.5
Simmons, Donald D. Multi-purpose sport vehicle chassis. 3,479,980, 11-25-69, Cl. 114-66.5
Simmons, Elmer C.: *See—*
Frey, Karl A.; and Simmons, Elmer C.,3,449,734.
Simmons, Ernest P. Firing mehanism for double-barrelled shotguns. 3,444,640, 5-20-69, Cl. 42-42.
Simmons, Eugene C., to Corning Glass Works. Sample introducing device for spectro- chemical analysis. 3,469,789, 9-30-69, Cl. 239-338.
Simmons, Gerald B., to Hoerner-Waldorf Corporation. Clothes bag container. 3,450,251, 6-17-69, Cl. 206-7.
Simmons, Gustavus J.: *See—*
Matthews, Robert P.; Simmons, Gustavus J.; and Wymer, Fred J.,3,480,921.
Simmons, Harley Earl: *See—*
Rouse, John Wilson; and Simmons, Harley Earl,3,478,917.
Simmons, Harold C., to Parker-Hannifin Corporation. Fail safe fuel injection nozzle. 3,443,760, 5-13-69, Cl. 239-410.
Simmons, Harold C.; Hogg, Eugene R.; and Kuhn, Roy C., to Parker-Hannifin Corporation. Air assist nozzle. 3,474,970, 10-28-69, Cl. 239-404.
Simmons, Harold C.; and Lapera, Dominic J., to Parker-Hannifin Corporation. Nozzle and manifold assembly. 3,472,025, 10-14-69, Cl. 60-39.74
Simmons, Harold T., to Mallory, P. R., & Co., Inc. Control means for a pressure responsive switch. 3,450,854, 6-17-69, Cl. 200-83.
Simmons, Harold T.; and Pervorse, Richard E., to Mallory, P. R., & Co., Inc. Shaft locking device. 3,476,892, 11-4-69, Cl. 200-38.
Simmons, Haryl C.; and Hanson, Douglas R., to Gopher Grinders, Inc. Band sharpener. 3,425,170, 2-4-69, Cl. 51-247.
Simmons, Herbert H. Clock controlled signalling system. 3,449,739, 6-10-69, Cl. 340-309.4
Simmons, James M.: *See—*
Speer, Walter F.; and Simmons, James M.,3,477,299.
Simmons, James R.; and Rapport, Arthur, to Simmons Milk Products, Inc. Method of preparing food supplement. 3,421,897, 1-14-69, Cl. 99-2.
Simmons, Joe J. Dental appliance. 3,486,230, 12-30-69, Cl. 32-5.
Simmons, John W.: *See—*
Meyers, William F.; and Simmons, John W.,3,423,242.
Simmons, Kenneth Ellison, to Haddon Concrete Company Limited. Cladding of structural steelwork with fire protective material. 3,425,658, 2-4-69, Cl. 249-23.
Simmons, Lacy W. Fowl killing machine and method. 3,477,092, 11-11-69, Cl. 17-11.
Simmons, Lawrence C., to Cleveland Technical Center, Inc. Apparatus for checking operation of power- producing components. 3,445,648, 5-20-69, Cl. 246-169.
Simmons, Lawrence C., to Cleveland Technical Center, Inc. Tiedown system. 3,465,691, 9-9-69, Cl. 105-368.
Simmons Milk Products, Inc.: *See—*
Simmons, James R.; and Rapport, Arthur, 3,421,897.
Simmons, Norman C., to Brown, David, Gear Industries Limited. Epicyclic trains. 3,460,405, 8-12-69, Cl. 74-801.
Simmons, Patrick M. L., 1/2 to Hanscom, Genevieve I., and 1/2 to Hanscom, Genevieve I., and Duggan, Lois J., as trustees of the estate of Magnuson, Roy M. Reflectance colorimeter with hybrid type stabilized amplifier. 3,437,819, 4-8-69, Cl. 250-214.
Simmons, Patrick M. L., 1/2 to Hanscom, Genevieve I., and 1/2 to Magnuson, Robert, and Duggan, Lois J., as trustees of the estate of Magnuson, Roy M. Apparatus for sorting products. 3,455,444, 7-15-69, Cl. 209-82.
Simmons, Patrick M. L., 1/2 to Hanscom, Genevieve I., and 1/2 to Magnuson, Robert, and Duggan, Lois J., trustees of the estate of Magnuson, Roy M. Pit detector circuit. 3,467,254, 9-16-69, Cl. 209-111.6
Simmons, Richard W., to Georgia-Pacific Corporation. Tanning process. 3,447,889, 6-3-69, Cl. 8-94.26
Simmons, Robert C.: *See—*
Johnston, Henry E.; and Simmons, Robert C.,3,445,803.
Simmons, Ryden R. Conversation interrupter. 3,472,966, 10-14-69, Cl. 179-2.
Simmons, Todd S.: *See—*
Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L.,3,458,582.

Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L.,3,466,326.
Simmons, William: *See—*
Garnett, Charles S., 3,477,799.
Simmons, William P., Jr.: *See—*
Truesdel, Lem D.; and Simmons, William P., Jr.,3,450,292.
Simmrock, Karl-Hans; and Strauss, Gunther, to Chemische Werke Huls Aktiengesellschaft. Refinements in the distillation of lactams from solutions thereof. 3,462,417, 8-19-69, Cl. 260-239.3
Simms, George A. Interrupted type facing machine. 3,427,926, 2-18-69, Cl. 90-18.
Simms, John R. Car top boat handling device. 3,460,694, 8-12-69, Cl. 214-450.
Simms, Michael L.; and Bopp, Joseph E., to General Electric Company. Refrigerator inner door construction. 3,467,458, 9-16-69, Cl. 312-223.
Simms Motor Units Limited: *See—*
Bradbury, Cyril Henry; and Freeland, William, 3,447,523.
Simms, T. S., & Co., Limited: *See—*
Allison, Philip J., 3,465,641.
Simnad, Massoud T.; Meyer, Robert A.; and Vanek, Richard P., to Gulf General Atomic Incorporated, mesne. Method and apparatus for high temperature heat treatment. 3,436,790, 4-8-69, Cl. 18-1.
Simon, Albert E., Jr.: *See—*
Tone, John W.; Simon, Albert E., Jr.; and Taylor, William D.,3,427,674.
Simon, Albert W.: *See—*
Morgan, Marcus S.; and Simon, Albert W.,3,441,574.
Simon, Donald R.; Rogers, Kenneth C.; and Sileo, Francis R., to Vitro Corporation of America. Plasma stabilization by rotation of arc discharge tube. 3,426,233, 2-4-69, Cl. 313-161.
Simon, Edward, to Unitrode Corporation, mesne. High-voltage planar semiconductor devices. 3,458,781, 7-29-69, Cl. 317-235.
Simon, Ellis D.: *See—*
Murray, John G.; Simon, Ellis D.; Bronner, George; and Edmonds, George D.,3,475,620.
Simon, Emmett F.: *See—*
Bishop, John M.; and Simon, Emmett F.,3,448,506.
Simon, Erfried, to Gewerkschaft Eisenhutte Westfalia. Pressure relief valve. 3,482,594, 12-9-69, Cl. 137-538.
Simon, Frank. Adjustable garment hangers. 3,471,069, 10-7-69, Cl. 223-91.
Simon, George; and Simon, Joseph A., 1/3 to Kleinsmith, Joseph P. Barbed wire. 3,480,256, 11-25-69, Cl. 256-8.
Simon, Gerhard: *See—*
Strauss, Gottfried; Heuss, Helmut; and Simon, Gerhard,3,463,863.
Simon, Hans. Method of manufacturing cables of predetermined lengths. 3,438,126, 4-15-69, Cl. 29-624.
Simon, Harry. Lock control system. 3,455,127, 7-15-69, Cl. 70-277.
Simon, Henry, Limited: *See—*
Spencer, Frederick; and Jones, Reginald Winstone, 3,467,453.
Sullivan, John Anthony, 3,466,982.
Simon, Herman R.; and Barnett, Stanley, to General Foods Corporation. Process for freezing coffee extract. 3,443,963, 5-13-69, Cl. 99-71.
Simon, Herman: *See—*
Marino, Francis C.; and Simon, Herman,3,472,449.
Simon, Hermann; Vohralik, Vaclav; Denson, John Michael; and Farey, Keith Horace, to Vik Supplies Limited. Manufacture of footwear. 3,473,990, 10-21-69, Cl. 156-224.
Wolf, Edgar; Marino, Francis C.; Simon, Herman; and Kummer, Daniel F.,3,472,448.
Simon, Horst: *See—*
Lieser, Ernst; Simon, Horst; and Mueller, Edwin,3,420,154.
Lieser, Ernst; Simon, Horst; Mueller, Edwin; and Steisslinger, Kurt,3,433,143.
Steisslinger, Kurt; and Simon, Horst,3,423,041.
Simon, Horst, to Eastman Kodak Company. Movable cover with locking and detenting means. 3,432,967, 3-18-69, Cl. 49-386.
Simon, Ivan, to General Motors Corporation, mesne. Diamagnetic accelerometer. 3,465,598, 9-9-69, Cl. 73-517.
Simon, Jacques F.: *See—*
Cotton de Bennetot,Michel M.; Lostis, Pierre J.; and Simon, Jacques F.,3,422,297.
Simon, James L.: *See—*
Gunter, Ernest M.; and Simon, James L.,3,435,152.
Simon, John. Control device for waterproof timepiece. 3,453,819, 7-8-69, Cl. 58-90.
Simon, John. Fastening of timepiece movement. 3,453,820, 7-8-69, Cl. 58-90.
Simon, Joseph A.: *See—*
Simon, George; and Simon, Joseph A.,3,480,256.
Simon, Joseph E., to Babcock & Wilcox Company, The. Weldment and process for welding thin sheet metals. 3,426,176, 2-4-69, Cl. 219-137.
Simon, Joseph William; and Alverson, William Keith, to Scientific-Atlanta Inc. Reciprocal microwave phase shifter having two magnetizing conductors and one reset conductor. 3,478,283, 11-11-69, Cl. 333-31.
Simon, Karl: *See—*
Simon, Peter, 3,420,562.
Simon, Peter, 3,476,166.
Simon, Karl-Heinz, to Schloemann Aktiengesellschaft. Devices for guiding lengths of plate on the entry side of trimming shears. 3,444,769, 5-20-69, Cl. 83-420.
Simon, Louis: *See—*
Bobolts, Melbourne W.; and Simon, Louis,3,453,934.
Simon, Myron S.: *See—*
Blout, Elkan R.; Cohen, Saul G.; Green, Milton; and Simon, Myron S.,3,429,872.
Simon, Peter Alan; Paletz, Leonard M.; and Fiterman, Benjamin, to Safco Products Co. Multiple drawer file cabinet. 3,429,632, 2-25-69, Cl. 312-259.
Simon, Peter, to Simon, Karl. Magnet holder for door closure and the like. 3,420,562, 1-7-69, Cl. 292-251.2
Simon, Peter, to Simon, Karl. Spike for vehicle tires and method of producing the same. 3,476,166, 11-4-69, Cl. 152-210.
Simon, Ralph E.; Williams, Brown F.; and Wasserman, Ralph, to RCA Corporation. Photomultiplier or image amplifier with secondary emission transmission type dynodes made of semiconductive material with low work function material disposed thereon. 3,478,213, 11-11-69, Cl. 250-207.
Simon, Ralph, to Chevron Research Company. Method of separating oil and water. 3,484,370, 12-16-69, Cl. 210-23.
Simon, Ralph: *See—*
McAuliffe, Clayton D.; Simon, Ralph; and Johnson, Carl E., Jr.,3,467,195.
Simon, Raphael A., to Corning Glass Works. Sheet glass edge control device. 3,451,798, 6-24-69, Cl. 65-199.
Simon, Reginald W. Self-driven rotary ventilator. 3,429,251, 2-25-69, Cl. 98-94.
Simon, Stanley A.: *See—*
Love, Gordon W.,3,434,237.
Simon, Stephane Marcel Clement Victor, to International Standard Electric Corporation. Lock-out circuit arrangement. 3,470,425, 9-30-69, Cl. 317-137.
Simon, Walter, to United States of America, Navy. Multimode waveguide termination. 3,474,354, 10-21-69, Cl. 333-22.
Simon, Wilhelm, to Perkin-Elmer Corporation, The. Isopiestic chromatographic dectector. 3,449,942, 6-17-69, Cl. 73-53.
Simon, Wilhelm, to Perkin-Elmer Corporation, The. Instrument for molecular weight determination. 3,453,866, 7-8-69, Cl. 73-15.
Simon, Wilhelm; and Wegmann, Dorothee, to Gebruder Moller Glasblaserei. Glass-electrode. 3,445,363, 5-20-69, Cl. 204-195.
Simon-Carves Limited: *See—*
Woodhead, Frederick A., 3,428,117.
Simonazzi, Tonino: *See—*
Bucci, Giovanni; Simonazzi, Tonino; Ballini, Giuliano; and Portolani, Augusto,3,477,985.
Simonds, George D.: *See—*
Mustered, Lyle V.; and Simonds, George D.,3,424,023.
Simone, Dominic: *See—*
Kollman, Robert C.; Lang, William D.; and Simone, Dominic,3,472,700.
Simone, Raymond A., to Stauffer Chemical Company. Preparation of N-(beta-dialkyldithiophosphorylet- hyl) alkyl carbamates and thiocarbamates. 3,442,928, 5-6-69, Cl. 260-455.
Simone, Raymond A.: *See—*
Campbell, Ramsey G.; Oldenburg, Charles C.; and Simone, Raymond A.,3,437,652.
Simoneau, Edward T., to General Electric Company. Organopolysiloxane fluids substituted with methylolated amidoalkyl groups. 3,432,536, 3-11-69, Cl. 260-448.2
Simoneau, George R., to General Dynamics Corporation. Non-linear quickened monitor and controller. 3,422,418, 1-14-69, Cl. 340-324.
Simoneau, John J., to National Biscuit Company. Method for preparing cookies for packaging and freezing. 3,469,541, 9-30-69, Cl. 107-54.
Simonet, Jocelyn Elie Louis, to Societe du Carburateur Zenith. Carburetting system. 3,439,658, 4-22-69, Cl. 123-75.
Simonich, Mario. Machine for drawing, filling with a bulk material and automatically distributing a container. 3,478,702, 11-18-69, Cl. 107-1.
Simonides, Heinz: *See—*
Lanfermann, Willy; and Simonides, Heinz,3,473,846.
Simoniz Company: *See—*
Kendall, Edward R., 3,423,342.
Simons, Aloys, to Krantz, H. Apparatus for bleaching. 3,426,554, 2-11-69, Cl. 68-9.
Simons, Charles W., to Grace, W. R., & Co. Method for molding sealing gaskets. 3,462,331, 8-19-69, Cl. 156-231.
Simons, Charles W.; and Gribens, Joel A., to Grace, W. R., & Co. Method of making gasketed mounting cups for pressurized aerosol containers. 3,443,006, 5-6-69, Cl. 264-249.
Simons, Clifford G., to Sta-Rite Industries, Inc., mesne. Pulsator unit for milking machine. 3,480,038, 11-25-69, Cl. 137-550.
Simons, Clifford G., to Sta-Rite Industries, Inc. Pipeline milking system. 3,480,252, 11-25-69, Cl. 251-146.

Simons, Clifford G., to Sta-Rite Industries, Inc. Method of molding a transparent teat cup shell. 3,484,516, 12-16-69, Cl. 264-254.
Simons, Frank Holmes, to Fiber Industries, Inc. Process of forming polymeric material of increased relative viscosity. 3,480,596, 11-25-69, Cl. 260-78.
Simons, Ira W.: *See—*
Hood, Charles B., Jr.; and Simons, Ira W.,3,477,434.
Simons, John B., to Lear Siegler, Inc. Spring assembly and manufacture thereof. 3,476,156, 11-4-69, Cl. 140-3.
Simons, John C., to United States of America, Air Force. Vehicle approach direction indicating apparatus. 3,465,285, 9-2-69, Cl. 340-25.
Simons, Keneth A., to Jerrold Electronics Corporation. Grounded collector amplifier circuit. 3,437,948, 4-8-69, Cl. 330-28.
Simons, Keneth A., to Jerrold Electronics Corporation. Inductively coupled unidirectional taps. 3,440,571, 4-22-69, Cl. 333-10.
Simons, Leon. Vibration-resistant screw. 3,455,360, 7-15-69, Cl. 151-14.
Simons, Sylvan. Increased gain broad-band television antenna. 3,471,859, 10-7-69, Cl. 343-815.
Simons, Sylvan. Combination UHF-VHF television receiving antenna. 3,487,415, 12-30-69, Cl. 343-814.
Simons, William Richard: *See—*
Griffin, Brian William; and Simons, William Richard,3,469,458.
Simonsen & Mustad A.S.: *See—*
Gerhardsen, Torvald S., 3,426,725.
Simonson, Leroy W.; and Dahlberg, Barry A., to Warner Electric Brake & Clutch Company. Reversible variable stroke power actuator. 3,461,747, 8-19-69, Cl. 74-828.
Simonton, David P., to TRW, Inc. Adjustable crank mechanism. 3,436,988, 4-8-69, Cl. 74-837.
Simor, George G., to Ion Company, The. Toothbrush for producing electrical potentials. 3,478,741, 11-18-69, Cl. 128-172.1
Simovich, Tom P. Lift truck with laterally tiltable lifting unit. 3,482,722, 12-9-69, Cl. 214-701.
Simovits, Stephen S., Jr.: *See—*
Klier, Lewis; and Simovits, Stephen S., Jr.,3,423,717.
Simpkins, John Oliver; and Lovatt, Michael, to Diamond Power Specialty Limited. Rotary positive displacement pumping apparatus. 3,467,019, 9-16-69, Cl. 103-117.
Simplec Manufacturing Company, Inc.: *See—*
Summers, Gerald C., 3,479,641.
Simplex Manufacturing Co.: *See—*
Colvin, Donald; and Schultz, Vernon A., 3,476,675.
Simplex Time Recorder Company: *See—*
Kramer, Roger G., 3,479,812.
Simplex Wire and Cable Company: *See—*
Heidt, Lawrence J., 3,420,778.
Hunt, George H., 3,445,394.
Kenney, Norwood D.; and Petterson, Victor S., 3,482,033.
Simplicity Engineering Company: *See—*
Allen, Walter R., 3,454,230.
Simplicity Manufacturing Company, Inc.: *See—*
Kamlukin, Igor, 3,440,740.
Kamlukin, Igor, 3,457,714.
Simplimatic Development Corporation: *See—*
Englander, Robert A.; and Justis, Luther E., 3,481,108.
Simpson, Alden H. Tent stake. 3,431,924, 3-11-69, Cl. 135-15.
Simpson, Alexander Bowen: *See—*
West, De Witt Henry; and Simpson, Alexander Bowen,3,445,555.
Simpson, Billy D., to Phillips Petroleum Company. Polysulfide polymer blends. 3,450,790, 6-17-69, Cl. 260-823.
Simpson, Billy D.: *See—*
Jones, Faber B.; and Simpson, Billy D.,3,423,374.
Simpson, Charles W. Film frame registration and marking device. 3,485,094, 12-23-69, Cl. 73-157.
Simpson, Claude E.; and White, William Z., to Burlington Industries, Inc. Filling tail removal equipment. 3,435,856, 4-1-69, Cl. 139-256.
Simpson, Donald A.; and Swift, Richard L., to Scott Paper Company. Interior panel member for an automobile. 3,477,759, 11-11-69, Cl. 296-28.
Simpson, Donald D.; and Hennemann, Raymond G., to ACF Industries, Incorporated. Carburetor idle speed control. 3,484,084, 12-16-69, Cl. 261-41.
Simpson, Donald W., to Dow Chemical Company, The. Method and apparatus for the production of foam plastic sheet. 3,426,111, 2-4-69, Cl. 264-48.
Simpson, Elbert L.: *See—*
Archer, Wesley L.; and Simpson, Elbert L.,3,444,247.
Archer, Wesley L.; and Simpson, Elbert L.,3,452,107.
Archer, Wesley L.; and Simpson, Elbert L.,3,454,659.
Archer, Wesley L.; and Simpson, Elbert L.,3,468,966.
Archer, Wesley L.; and Simpson, Elbert L.,3,472,903.
Archer, Wesley L.; and Simpson, Elbert L.,3,475,503.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard,3,444,248.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard,3,452,108.
Archer, Wesley L.; Simpson, Elbert L.; and Graybill, George Richard,3,452,109.
Simpson, Frank E.: *See—*
Matthews, Rudolph; Blakewell, Roland F.; and Simpson, Frank E.,3,439,791.
Simpson, Frank S., to Illinois Stoker Company. Refuse incinerator. 3,473,493, 10-21-69, Cl. 110-7.
Simpson, Harry E.: *See—*
Tucker, Andrew J.; Kilgore, Marion D.; Crow, Morgan L.; and Simpson, Harry E.,3,460,616.
Simpson, Heyward V.; Burnett, Reginald; and Ellenburg, John E., to Phillips Petroleum Company. Plastic felt. 3,484,283, 12-16-69, Cl. 117-140.
Simpson, Jack N.; and Boyer, Charles J., to E & B Incorporated. Circumaural ear protector. 3,457,565, 7-29-69, Cl. 2-209.
Simpson, Jack N.; and Boyer, Charles J., to ESB Incorporated. Lens retaining device. 3,458,865, 8-5-69, Cl. 2-8.
Simpson, Jack W., Sr.: *See—*
Douglas, Gavin L.; and Simpson, Jack W., Sr.,3,432,845.
Simpson, James Roxby, to National Research Development Corporation. Biological treatment of waste water containing organic matter. 3,466,241, 9-9-69, Cl. 210-17.
Simpson, John Albert: *See—*
Bourne, John Edward; and Simpson, John Albert,3,454,852.
Simpson, Joseph Elmer. Elevator control system including a photocell position indicator. 3,483,950, 12-16-69, Cl. 187-29.
Simpson, Leander Burton: *See—*
O'Donnell, Joseph P.; Butler, Roger M.; and Simpson, Leander Burton,3,462,476.
Simpson, Malcolm Patrick; Hardwick, William Horton; Blundy, Peter Desmond; and Morris, David Rowland, to United Kingdom Atomic Energy Authority. Recovery of hydrogen fluoride. 3,431,071, 3-4-69, Cl. 23-153.
Simpson Manufacturing Company: *See—*
May, Hugh B., 3,446,058.
Sullivan, Francis G.; Phelps, Charles G.; and Troyer, William J., 3,457,624.
Simpson, Mary Phyllis: *See—*
Librande, Samuel M., 3,478,739.
Simpson, Michael Charles Stephen, to English Electric Company Limited, The. Static overcurrent relay designed to accommodate current 'offset' of up to 100% of the steady state level. 3,487,266, 12-30-69, Cl. 317-33.
Simpson, Mott E.: *See—*
Vaughan, George W.; Barton, Walter S.; and Simpson, Mott E.,3,467,275.
Simpson, Orville, Company, The: *See—*
Nolte, Arthur C., 3,433,357.
Simpson, Richard H., to Clark Equipment Company. Mounting of rotatable gear on transmission shaft. 3,452,611, 7-1-69, Cl. 74-363.
Simpson, Robert Alan, to American Cyanamid Company. Gelled nitric acid blasting agent. 3,442,728, 5-6-69, Cl. 149-56.
Simpson, Robert Alan; Cross, George Abraham; and Rishel, James Paul, to American Cyanamid Company. Gelled nitric acid blasting agent. 3,454,438, 7-8-69, Cl. 149-47.
Simpson, Robert Alan; Rishel, James Paul; and Cross, George Abraham, to American Cyanamid Company. Blasting composition containing nitric acid. 3,423,257, 1-21-69, Cl. 149-19.
Simpson, Robert C. Navigational plotter-computer. 3,460,259, 8-12-69, Cl. 33-1.
Simpson, Robert G.; Luker, Ronald J.; and Jewell, George S., to Canadian Westinghouse Company Limited. Pattern follower confining fields of view of two scanning photocells within conical surfaces overlapping at pattern. 3,479,513, 11-18-69, Cl. 250-202.
Simpson, Ronald Frank; and Slater, Frank Robert, to Dzus Fastener Co., Inc. Machines for use in manufacturing studs. 3,462,816, 8-26-69, Cl. 29-33.
Simpson, Theodore B.: *See—*
Conte, Joseph G.; Spitaleri, Paul S.; Stern, Milton; and Simpson, Theodore B.,3,425,837.
Simpson, Theodore. Intermittent rotary motion. 3,442,146, 5-6-69, Cl. 74-84.
Simpson, Thomas W., to Ferry, J. D., Co., Inc. Method of cooking potato chips to increase fluffiness and prevent browning. 3,436,229, 4-1-69, Cl. 99-100.
Simpson Timber Company: *See—*
Clausen, Victor H.; and Zweig, Arnold, 3,445,313.
Clausen, Victor H.; Jarvi, Reino A.; and Zweig, Arnold, 3,451,374.
Gould, John V.; and Rasmussen, James E., 3,437,360.
Jarvi, Reino A., 3,448,001.
Simpson, Virt A. Dart board game. 3,424,460, 1-28-69, Cl. 273-95.
Simpson, Walter Eric: *See—*
Drake, Cyril Francis; Simpson, Walter Eric; and Robinson, John Sydney,3,444,656.
Simpson, Walter M., to Carrier Corporation. Absorption refrigeration machine. 3,461,684, 8-19-69, Cl. 62-476.
Sims, Eugene F.: *See—*
Nelson, Jerome W.; and Sims, Eugene F.,3,461,264.

Sims, Fred I., to Cincinnati Butchers' Supply Company, The. Trolley turn-around. 3,422,769, 1-21-69, Cl. 104-99.
Sims, James B.: *See—*
Sutton, Walter T., Jr.; Broyles, James D.; Sims, James B.; and Botts, Nelson F.,3,475,830.
Sims, James G.: *See—*
Bradley, Bruce R.; and Sims, James G.,3,478,389.
Sims, James G., to Monsanto Company. Spinneret for melt spinning filaments. 3,419,936, 1-7-69, Cl. 18-8.
Sims, James G. Textile filaments. 3,425,893, 2-4-69, Cl. 161-177.
Sims, James G., to Monsanto Company. Melt-spinning of filaments. 3,448,185, 6-3-69, Cl. 264-178.
Holton, James R.; Sims, James G.; and Parker, Wesley A.,3,439,489.
Sims, John C., Jr., to Mohawk Data Sciences Corporation, mesne. Intermittent motion devices. 3,432,695, 3-11-69, Cl. 310-15.
Sims, Leslie L.: *See—*
Johnston, James D.; and Sims, Leslie L.,3,476,807.
Sims, Marc J.; and Symes, William F., to Monsanto Company. Methods of producing trichlorocyanuric acid. 3,427,314, 2-11-69, Cl. 260-248.
Sims, Marion W.: *See—*
Larsen, John E.; and Sims, Marion W.,3,421,208.
Sims, Marion W., to General Electric Company. Apparatus for turn development of electrical coils in inductive devices. 3,471,917, 10-14-69, Cl. 29-205.
Sims, Marion W., to General Electric Company. Process for turn development of electrical coils in inductive devices. 3,471,926, 10-14-69, Cl. 29-605.
Sims, Martin H.: *See—*
Harvey, Herbert; Sims, Martin H.; and Clay, Charles L.,3,432,841.
Sims, Nancy M.: *See—*
Guynes, William L., 3,442,195.
Sims, Raymond Bernard, to Coal Industry (Patents) Limited. Fluidised bed heating systems. 3,455,544, 7-15-69, Cl. 263-21.
Sims, Rex J., to Swift & Company. Stabilization of oxirane-containing fatty derivatives. 3,453,252, 7-1-69, Cl. 260-97.5
Sims, Robert J.; and Workman, Norma J., to Westinghouse Electric Corporation. Control for a clothes washing machine. 3,474,646, 10-28-69, Cl. 68-12.
Sims, Robert W.: *See—*
Rogstad, Vernon R.; and Sims, Robert W.,3,434,045.
Sims, Victor A., to Air Reduction Company, Incorporated. Hydrogen chloride recovery process. 3,453,073, 7-1-69, Cl. 23-154.
Sims, William John, to Associated Electrical Industries Limited. Method of making electric heating elements. 3,438,128, 4-15-69, Cl. 29-615.
Simshauser, Elvin D., to RCA Corporation. Electronic halftone image generator. 3,465,199, 9-2-69, Cl. 315-22.
Simshauser, Elvin Dean, to Radio Corporation of America. Printer with print bars supported by parallelogram linkage arrangement. 3,444,975, 5-20-69, Cl. 197-1.
Simson, Anton K., to Glass, John P., trading as Cava Industries. Fluidic device. 3,467,124, 9-16-69, Cl. 137-81.5
S.I.N.A. Societa Iniziative Nazionali Autostradali S.p.A.: *See—*
Giavotto, Vittorio; and Caprile, Carlo, 3,430,923.
Sinai, William W. Oral hygiene appliance. 3,480,009, 11-25-69, Cl. 128-66.
Sinar AG Schaffhausen: *See—*
Koch, Carl, 3,471,704.
Koch, Carl, 3,479,945.
S.I.N.A.Societa Iniziative Nazionali Autostradali S.p.A.: *See—*
Giavotto, Vittorio; and Caprile, Carlo, 3,438,611.
Sincat-Societa Industriale Catanese S.p.A.: *See—*
Ferrara, Italo, 3,436,178.
Scarfi, Alberto; and Gugliotta, Emanuele, 3,459,496.
Sincerbox, Glenn T.: *See—*
Ash, William W.; Kosanke, Kurt M.; and Sincerbox, Glenn T.,3,423,736.
Max, Erhard; and Sincerbox, Glenn T.,3,430,212.
Sinclair, Alan M.: *See—*
McCallister, Robert A.; and Sinclair, Alan M.,3,432,265.
Sinclair, Alex H.; and Otto, Robert J., to United States of America, Army. Low volume spring vehicle suspension and elevation system. 3,459,439, 8-5-69, Cl. 280-124.
Sinclair, Arthur Charles: *See—*
Rosenbrook, William, Jr.; and Sinclair, Arthur Charles,3,432,505.
Sinclair, Donald B.: *See—*
MacKenzie, Thomas E.; and Sinclair, Donald B.,3,479,587.
Sinclair, Harold K., to Du Pont de Nemours, E. I., and Company. Process for gelling aqueous polyvinyl alcohol solutions. 3,481,888, 12-2-69, Cl. 260-2.5
Sinclair, Harold, to Synchro-Drive Limited. Forward and reverse drive machinery. 3,487,422, 12-30-69, Cl. 60-102.
Sinclair, John C., to Iowa State University Research Foundation, Inc. Process of forming an electrical cable for chronic implantation within a living body. 3,466,742, 9-16-69, Cl. 29-592.
Sinclair, Lewis A. Trolling rig. 3,449,854, 6-17-69, Cl. 43-43.1
Sinclair Oil Corporation: *See—*
Fauber, Eugene M., 3,462,359.
Kilmer, Lauren G., 3,478,838.
Sinclair Research, Inc.: *See—*
Ballard, Henry D., Jr.; Mooi, John; and Rogers, Edward S., 3,422,033.
Beare, Leonard E.; Matson, Howard J.; and Nelson, John W., 3,455,844.
Billings, Gale K., 3,428,431.
Bowman, Donald C., 3,434,219.
Burk, Emmett H., Jr.; and Carlos, Donald D., 3,423,448.
Burk, Emmett H., Jr.; and Carlos, Donald D., 3,423,449.
Burk, Emmett H., Jr.; and Carlos, Donald D., 3,423,450.
Burk, Emmett H., Jr.; and Hoffman, William D., 3,480,559.
Burk, Emmett H., Jr.; and Carlos, Donald D., 3,480,595.
Carlos, Donald D.; and Burk, Emmett H., Jr., 3,423,447.
Carlos, Donald D.; Chambes, Robert R.; and Young, David W., 3,449,252.
Carlos, Donald D.; and Young, David W., 3,471,405.
Carlos, Donald D.; Young, David W.; and Chambers, Robert R., 3,475,338.
Carlos, Donald D., 3,480,391.
Carlos, Donald D., 3,480,392.
Carlos, Donald D.; and Young, David W., 3,480,549.
Chambers, Robert G., 3,483,754.
Chambers, Robert R.; Isaacson, Henry V.; and Young, David W., 3,472,772.
Chao, Tai S.; Matson, Howard J.; and Knonaas, Manley, 3,436,348.
Chao, Tai S.; Kjonaas, Manley; and Hoffman, William D., 3,441,600.
Chao, Tai S.; and Eickemeyer, Daniel B., 3,446,738.
Chloupek, Frank J., 3,437,709.
Chloupek, Frank J.; and Sanford, Robert A., 3,451,909.
Chloupek, Frank J., 3,484,354.
Clough, Thomas J.; and Young, David W., 3,450,786.
Clough, Thomas J., 3,479,291.
Clough, Thomas J., 3,483,125.
Crabtree, Reece J., 3,448,754.
Dart, Rodger W.; and Smythe, Richard E., 3,439,773.
De Vries, Donald L.; and Nygren, Carl E., 3,444,053.
Dellert, Richard H., 3,481,867.
Dresser, Thorpe; and Ohlswager, Stanley, 3,462,508.
Dresser, Thorpe; Ohlswager, Stanley; and Edison, Robert, 3,462,509.
Edison, Robert R., 3,462,511.
Erickson, Henry; and Johnson, Marvin F. L., 3,428,550.
Erickson, Henry; and Russell, Howard G., 3,457,191.
Fauber, Eugene M., 3,476,679.
Fukuda, Masataro; Elving, Philip J.; and Rulfs, Charles L., 3,458,359.
Gower, Bob G.; Isaacson, Henry V.; and Young, David W., 3,485,762.
Gring, John L., 3,445,401.
Hall, Robert D., 3,442,767.
Hearn, Daniel P., 3,467,856.
Hoffman, William D.; Burk, Emmett H., Jr.; and Eichhorn, Robert M., 3,432,570.
Isaacson, Henry V.; and Young, David W., 3,454,379.
Kilmer, Lauren G., 3,422,447.
Kilmer, Lauren G., 3,480,102.
Kilmer, Lauren G., 3,480,103.
Kintzinger, Paul R., 3,486,121.
Kovach, Stephen M.; and Rogers, Edward S., 3,422,002.
Kovach, Stephen M.; Sanford, Robert A.; and Young, David W., 3,433,845.
Kovach, Stephen M.; and Rogers, Edward S., 3,437,588.
Kovach, Stephen M.; Sanford, Robert A.; and Young, David W., 3,459,814.
Lord, Walter R., 3,460,765.
Loring, Lewis D.; and Voss, Henry J., 3,455,716.
MacKintosh, William D., 3,456,447.
Matson, Howard J., 3,450,634.
Michaels, Glenn O., 3,448,162.
Michaels, Glenn O.; and Mooi, John, 3,470,262.
Mooi, John; and Michaels, Glenn O., 3,462,505.
Morse, Lester M., 3,441,051.
Moyer, Hallard C., 3,476,700.
Mrstik, Adolph V.; Schoen, Walter F.; and Voelz, Frederick L., 3,481,716.
Muskat, Irving E., 3,451,979.
Ohlswager, Sanley; and Edison, Robert R., 3,462,510.
Ohlswager, Stanley; and Edison, Robert, 3,462,506.
Patinkin, Seymour H.; Kirk, James H.; and Steinhoff, William L., 3,445,205.
Patinkin, Seymour H.; Verdol, Joseph A.; and Carrow, Donald J., 3,450,513.
Patinkin, Seymour H., 3,481,719.
Pratt, Richard J.; and Conboy, Robert J., 3,484,261.
Rausch, Maurice K.; and Isaacson, Henry V., 3,427,177.

Rausch, Maurice K., 3,431,198.
Rausch, Maurice K., 3,450,636.
Rausch, Maurice K., 3,459,656.
Reid, Albert C., 3,426,270.
Reid, Albert C., 3,447,126.
Sanford, Robert A.; and Chloupek, Frank J., 3,456,034.
Schoen, Walter F.; and Voelz, Fred L., 3,481,718.
Sheldahl, David B., 3,427,414.
Strand, Robert C.; and Marion, Donald L., 3,428,596.
Szasz, Stephen E.; and Kilmer, Lauren G., 3,462,228.
Teeter, Ford C.; Sheldahl, David B.; and Highberg, Carle W., 3,453,784.
Teeter, Ford C., 3,460,295.
Thompson, James L., 3,435,898.
Todd, John C., 3,420,300.
Trevillyan, Alvin E.; and Sanford, Robert A., 3,429,943.
Van Nordstrand, Robert A., 3,459,502.
Verdol, Joseph A.; and Thienot, Marc O., 3,423,355.
Verdol, Joseph A.; and Thienot, Marc O., 3,423,373.
Verdol Joseph A.; and Ryan, Patrick W., 3,427,366.
Verdol, Joseph A.; and Gower, Bob G., 3,429,946.
Verdol, Joseph A.; and Carrow, Donald J., 3,432,479.
Verdol, Joseph A.; and Gonzalez, Hector J., 3,444,151.
Verdol, Joseph A.; and Carrow, Donald J., 3,476,686.
Verdol, Joseph A.; and Carrow, Donald J., 3,487,125.
Voelz, Frederick L.; and Schoen, Walter F., 3,481,717.
Wostl, Wolfgang J.; and Heintz, Joseph A., 3,448,616.
Wostl, Wolfgang J., 3,477,277.
Wunderlich, Donald K., 3,441,500.
Young, David W., 3,423,359.
Young, David W.; and Poss, Richard F, 3,440,187.
Young, David W.; Ryan, Patrick W.; and Isaacson, Henry V., 3,446,740.
Young, David W.; and Clough, Thomas J., 3,448,050.
Young, David W.; and Isaacson, Henry V., 3,471,273.

Sinclair, Robert L., to Gillette Company, The. Display case. 3,427,084, 2-11-69, Cl. 312-117.

Sinclair-Koppers Company: *See*—
Galizia, Eugene V.; and Immel, Richard H., 3,424,827.
Gaylor, Robert B., Jr., 3,469,764.
Guziak, Leonard F.; Mengon, Albert C.; and Guy, Hubert G., 3,487,032.
Immel, Richard H.; and Nelson, Paul, 3,444,104.
Maclay, William N., 3,470,146.
Nelson, Paul B., 3,430,803.
Slapnik, Joseph, 3,424,341.
Zorn, Peter A.; and Scheuring, George R., 3,465,913.

Sincock, Thomas F.: *See*—
Scopp, Howard A.; and Sincock, Thomas F.,3,424,342.

Sindaco S.A.: *See*—
Haas, Peter, 3,431,722.

Sindel, Paul: *See*—
Marx, Helmut; and Sindel, Paul,3,459,468.

Sindelar, James A., to Sindelar Water Basketball Co. Apparatus for water basketball game. 3,469,844, 9-30-69, Cl. 273-105.

Sindelar Water Basketball Co.: *See*—
Sindelar, James A., 3,469,844.

Sindelar, William F., to Black and Decker Manufacturing Company, The. Quick release rotary tool chuck. 3,428,327, 2-18-69, Cl. 279-82.

Sindelar, William F., to Black and Decker Manufacturing Company, The. Attaching and adjusting construction for depth locating accessory. 3,454,059, 7-8-69, Cl. 144-32.

Sindermann, Paul: *See*—
Franzen, Roland; and Sindermann, Paul,3,437,036.

Sindermann, Paul, to Diehl. Hand grenade with interchangeable fragmentation carrier body. 3,448,688, 6-10-69, Cl. 102-65.4

Sindlinger, Norman E., to Ideal Toy Corporation. Multi-message phonograph mechanism. 3,466,050, 9-9-69, Cl. 274-1.

Sines, Thomas E., 10% to Pope, Marvin E. Guitar with remote control organ playing means. 3,482,029, 12-2-69, Cl. 84-1.16

Sinex, Gene O., to American Tank and Steel Corporation. Apparatus for reconcentrating liquid desiccant. 3,443,623, 5-13-69, Cl. 159-31.

Sinfelt, John H.: *See*—
Carter, James L.; and Sinfelt, John H.,3,424,669.

Sinfelt, John H.; Barnett, Allan E.; and Dembinski, George W., to Esso Research and Engineering Company. Isomerization process utilizing a gold-palladium alloy in the catalyst. 3,442,973, 5-6-69, Cl. 260-683.65

Sinfelt, John H.; and Taylor, William F., to Esso Research and Engineering Company. Controlled conversion of light naphtha to town gas. 3,450,514, 6-17-69, Cl. 48-214.

Sinfelt, John H.; Taylor, William F.; and Dembinski, Jerzy, to Esso Research and Engineering Company. Low-temperature ccatalytic hydrogenolysis of hydrocarbons to methane. 3,421,870, 1-14-69, Cl. 48-213.
Taylor, William F.; and Sinfelt, John H.,3,429,656.
Taylor, William F.; and Sinfelt, John H.,3,444,099.
Taylor, William F.; Sinfelt, John H.; and Biller, William F.,3,443,886.
Taylor, William F.; Sinfelt, John H.; and Berk, Henry,3,449,099.

Singalewitch, Joseph D.: *See*—
Windeler, Christopher L.; and Singalewitch, Joseph D.,3,483,597.

Singe, Eckehard: *See*—
Thesing, George; and Singe, Eckehard,3,444,792.

Singer, Ben L. Combined eaves trough hanger and leaf guard. 3,436,878, 4-8-69, Cl. 52-12.

Singer Company, The: *See*—
Adams, Kenneth D., 3,476,003.
Batson, William A.; and Winchester, Don B., 3,462,623.
Beckenstein, Leonard A., 3,440,838.
Beckmann, Uwe L., 3,464,011.
Blackwood, John; La Police, George D.; and Rakacs, Joseph G., 3,444,833.
Boyer, Kerwin R., 3,423,961.
Coulombe, Lionel J., 3,440,987.
Coulombe, Lionel J., 3,457,887.
Della Torre, Giancarlo, 3,479,978.
Dix, Willard A.; and Porter, Oswald M., 3,441,969.
Doolittle, Carl J.; and Pedigo, Roy B., 3,472,092.
Eades Joseph R., 3,439,375.
Fauth, John M.; and Scott, Donald S., 3,476,962.
Fegan, Richard M.; and Wells, Henry B., III, 3,429,112.
Florczak, Richard A., 3,430,592.
Florczak, Richard A., 3,486,470.
Frick, David F., 3,486,045.
Gaines, William M., 3,460,499.
Goebel, Gregory; and Ketterer, Stanley J., 3,433,191.
Greenwood, William S., Jr.; and Visaggio, Andrew, 3,467,039.
Greulich, Robert G., 3,420,198.
Greulich, Robert G., 3,467,041.
Hacklander, Hans W., 3,437,062.
Hacklander, Hans W., 3,465,698.
Hacklander, Hans W., 3,467,040.
Haefele, Henry A.; and Reid, Orland B., 3,433,187.
Happe, Reynold; and von Rymon, Werner, 3,421,463.
Herr, John A., 3,428,066.
Hollenberg, Jowl W., 3,441,201.
Jacobsen, Sigurd S.; Bartosz, Frank J.; and Laidig, Manfred R., 3,420,197.
Johnson, Ralph E., 3,420,200.
Johnson, Ralph E., 3,476,067.
Kaplan, Ronald M., 3,425,378.
Kaplan, Ronald M.; and Ketterer, Stanley J., 3,472,187.
Kaplan, Ronald M., 3,486,472.
Killinger, Karl H.; and Tullman, Edward J., 3,457,889.
Klayman, Arnold I.; and Genest, Leonard J., 3,461,371.
Klebe, Elmer C., Jr., 3,436,576.
Kuhar, Ludwig J., 3,465,700.
Lawrie, Donald; and Findlay, Campbell, 3,465,381.
Lukawich, Joseph J.; and Graft, Robert W., 3,461,737.
Martin, Samuel R.; and McKibbin, John T., 3,433,339.
McCoy, Donald P.; and Stockburger, Charles J., 3,421,776.
Milan, Henry J.; and Hauser, William G., 3,437,300.
Mishcon, Lester; and Reagan, Donald W., 3,440,837.
Mishcon, Lester, 3,456,460.
Mishcon, Lester, 3,457,736.
Odermann, Charles R.; and Dix, Willard A., 3,477,082.
Off, Joseph W. A.; Adams, Kenneth D.; and Raudonis, John A., Jr., 3,420,515.
Patrick, William E.; and Fennesz, Frank, Jr., 3,439,639.
Perrino, Frank A., 3,459,204.
Perrino, Frank A., 3,477,765.
Rees, Spencer C., 3,430,707.
Rees, Spencer C., 3,466,973.
Rees, Spencer C., 3,476,960.
Reid, Orland B.; and Feuling, Bert G., 3,482,540.
Ross, Roger J., 3,448,708.
Ross, Roger J., 3,486,473.
Sagi, Zsigmond L., 3,433,190.
Scheuerer, Walter J., 3,435,930.
Schindall, Joel E., 3,430,163.
Shaw, Ronald; and Thore, Thomas J., 3,472,048.
Smith, Charles W.; and Dix, Willard A., 3,425,081.
Smith, Charles W.; and Lachat, Remy J., 3,471,886.
Szuba, Walter D.; and Hannen, James H., Jr., 3,476,066.
Tajima, Masao, 3,469,547.
Takahashi, Jin, 3,433,193.
Thayer, Louis C., 3,482,772.
Thore, Thomas J., 3,443,403.
Thurman, Hoyt Dean, 3,452,947.
Van Hart, James E., Jr.; and Rea, Kenneth R., 3,465,699.
Van Ness, William C., 3,467,038.
Walling, Francis L., 3,465,701.
Watkins, Charles W., 3,421,929.
Watson, William, 3,469,471.
Weisz, William, 3,433,189.
Winchester, Don D.; and Batson, William A., 3,439,248.
Wu, William I. L., 3,445,762.

Wulbrede, Ernst Diekiele; Willenbacher, Erich M.; and Gabler, Dieter K., 3,443,538.
Zacher, Norman E., 3,421,713.
Zocher, Josef, 3,464,097.
Zocher, Josef, 3,469,548.
Zocher, Josef, 3,473,205.

Singer, Eduard: *See—*
Meyer, Eugen; and Singer, Eduard,3,455,765.

Singer, Edward N., to United States of America, Navy. Pulse percent indicator. 3,474,235, 10-21-69, Cl. 235-92.

Singer, Edwin: *See—*
Geissler, Ambros; and Singer, Edwin,3,480,931.

Singer, Franz: *See—*
Fahlenberg, Paul; and Singer, Franz,3,472,142.

Singer, Franz, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic shutter. 3,421,426, 1-14-69, Cl. 95-63.

Singer, Franz, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Mechanical arrangement for electronically controlled photographic shutter. 3,448,672, 6-10-69, Cl. 95-63.

Singer, Franz, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic shutter. 3,452,662, 7-1-69, Cl. 95-53.3

Singer, Franz; Fahlenberg, Paul K. G.; and Lermann, Peter, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic camera. 3,448,673, 6-10-69, Cl. 95-64.

Singer General Precision, Inc.: *See—*
Hemstreet, Harold S., 3,485,554.

Singer, Hermann; Delius, Hermann; and Kuhr, Johann, to Reichhold Chemicals, Inc. Phenolic resin bonded abrasive sheets and process of making the same. 3,466,814, 9-16-69, Cl. 51-297.

Singer, Isadore, to Singer Partitions, Inc. Panel connector. 3,428,108, 2-18-69, Cl. 160-135.

Singer, Jean, & Cie S.A.: *See—*
Kohli, Willy; and Meroz, Charles, 3,433,013.

Singer, Marshall V., Jr. Grader blade. 3,431,980, 3-11-69, Cl. 172-40.

Singer, Nat. Costumer. 3,424,317, 1-28-69, Cl. 211-167.

Singer Partitions, Inc.: *See—*
Singer, Isadore, 3,428,108.

Singer, Philip A., to Allied Mills, Inc. Process for making animal feeds. 3,438,780, 4-15-69, Cl. 99-2.

Singer, Reginald D.; and Smith, John L., to Dunlop Rubber Company Limited. Episulphide polymers cross-linked with aminoplast resins. 3,444,123, 5-13-69, Cl. 260-33.4

Singer, Reginald D.: *See—*
Smith, John L.; and Singer, Reginald D.,3,423,356.

Singer, Robert L., to Magna Visual Inc. Abrasion resistant polyurethane coating for steel. 3,447,949, 6-3-69, Cl. 117-75.

Singer, William: *See—*
Nowak, Milton; and Singer, William,3,485,772.

Singer-Cobble Limited: *See—*
Dawson, Peter H. T., 3,434,311.
Evans, Raymond Victor; and Lund, Ernest Kenneth, 3,452,913.
Evans, Raymond Victor; and Hibbitt, John Edward, 3,468,140.
Lund, Ernest K., 3,429,285.
Lund, Ernest K., 3,443,534.

Singer-General Precision, Inc.: *See—*
Albert, William C., 3,481,204.
Bernstein, Frank H., 3,462,615.
Bible, Robert E.; McIntyre, Robert L.; Scott, William F.; and Trostrud, Arville T., Jr., 3,443,076.
Binder, Herbert; and Krupick, Walter J., 3,438,270.
Binder, Herbert; and Delaney, Robert V., 3,475,971.
Binder, Herbert; and Krupick, Walter J., 3,479,889.
Bishop, Samuel N.; and Grayson, Edward W., 3,468,003.
Buell, Heinz; Gannon, Joseph A.; and Rubin, Jack, 3,432,856.
Carow, Walter M.; and Rogall, Herbert, 3,438,266.
Cass, James L., 3,456,243.
Davenport, Donald E., 3,434,197.
Davies, James W.; and Carow, Walter M., 3,438,265.
De Cotiis, Constant J.; Parker, Bernard; and Riordan, Hugh E., 3,438,269.
DeCotiis, Constant J.; and Parker, Bernard, 3,486,384.
Ebeling, William C.; and Paufve, Eldred H., 3,439,105.
Ebeling, William C., 3,456,362.
Emerson, John F., 3,456,513.
Emmerich, Claude L., 3,470,385.
Emmerich, Claude L., 3,487,204.
Evans, John L., 3,457,793.
Evans, John L.; and Riordan, Hugh E., 3,463,182.
Evans, John L., 3,468,170.
Flower, Robert A.; Stavis, Gus; and Gamertsfelder, George R., 3,432,237.
Gamertsfelder, George R., 3,485,560.
Gates, Robert L., 3,485,115.
Gottlieb, Irving M., 3,474,409.
Greenly, Robert B.; Jenkner, Kurt W.; and Kittredge, Raymond E., 3,473,451.
Guyon, Andre J.; Jones, Derek; and Snyder, Michael D., 3,439,960.
Hauber, Charles E.; and Kittredge, Raymond E., 3,473,862.
Henf, George, 3,457,013.
Hohenstein, Robert M., 3,446,079.
Holt, Harley E.; and Quick, George R., 3,451,145.
Hunt, John M., 3,469,253.
Kittredge, Raymond E.; Levy, Kurt; and Kripl, Josef F., 3,470,629.
Kunstadt, George H.; and Opocensky, Willard J., 3,472,072.
Lerman, Harold; and Goldstein, Murray S., 3,463,912.
Lucy, Carl F., 3,427,976.
Ludwig, Urban W., 3,458,252.
Marosi, Gilbert; and Soderquist, Donn W., 3,451,041.
Masel, Marvin; and Prill, Robert S., 3,458,720.
Meixner, Arthur E.; and Reynolds, Frederick W., 3,453,143.
Myles, Walter E., 3,439,157.
Naydan, Bob N., 3,480,947.
Norris, Frank A., 3,479,536.
O'Regan, Charles P.; and DeLeo, Louis P., 3,465,225.
Pancoe, Edward G.; and Smith, Robert L., 3,451,146.
Parker, Bernard, 3,457,794.
Parmett, Michael B., 3,452,285.
Prebish, Michael J.; and Holt, Harley E., 3,466,753.
Rauch, Charles, 3,437,893.
Remington, Richard C., 3,487,303.
Reynolds, Frederick W.; and Meixner, Arthur E., 3,447,234.
Riordan, Hugh E.; and Ganther, Robert Joseph, 3,469,456.
Riordan, Hugh E., 3,486,383.
Riordan, Hugh F.; De Cotiis, Constant John; and Straut, Harold J., 3,465,600.
Rodgers, Robert P., 3,474,259.
Sagalow, Morton, 3,469,309.
Schmidlin, Albertus E., 3,481,205.
Schwartz, Leonard, 3,471,857.
Scipione, Alfred S., 3,479,459.
Sherman, Michael, 3,444,473.
Sherman, Michael, 3,469,110.
Skalski, Clement A.; and Stiles, John C., 3,433,568.
Skalski, Clement A.; and Stiles, John C., 3,484,169.
Smyth, Frederick J., 3,423,730.
Stahle, Howard L., 3,439,343.
Staples, Lynn A.; and Urquhirt, Alexander J., 3,483,634.
Staples, Lynn Allen, 3,463,866.
Stiles, John C., 3,439,961.
Stiles, John C.; and Emerson, John F., 3,453,894.
Stokes, Horace F., Jr.; and Vuolo, Vincent C., 3,457,365.
Toman, Donald J., 3,487,411.
Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M., 3,444,533.
Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M., 3,453,445.
Tu, Ju C., 3,474,420.
Villers, Philippe; and Hayes, Woodrow L., 3,461,567.
Weisbord, Leon, 3,470,400.
Weiss, Robert, 3,463,909.
Woodson, Robert A., 3,471,239.
Wopart, James F., Jr., 3,427,732.

Singer-General Precision Systems Inc.: *See—*
Lerman, Harold; and Goldstein, Murray S., ,487,469.
Lerman, Harold; and Goldstein, Murray S., 3,480,766.

Singewald, Arno: *See—*
Fricke, Guenter; and Singewald, Arno,3,480,139.

Singewald, Arno, to Wintershall Aktiengesellschaft. Method of electrostatic dressing of potassium salts and the like. 3,458,039, 7-29-69, Cl. 209-9.

Singh, Ajaib: *See—*
Mollica, Joseph Charles; and Singh, Ajaib,3,468,842.

Singh, Alamjit D. Process for producing combined coal char and oil coke and coproducts therewith. 3,437,562, 4-8-69, Cl. 201-22.

Singh, Inderjeet: *See—*
Balain, Kanwal Singh; and Singh, Inderjeet,3,426,727.

Singh, Kshatra Pati, to Union Carbide Canada Limited. Polyolefins stabilized with derivatives of 2- furyl acrylonitrile. 3,445,421, 5-20-69, Cl. 260-45.8

Singh, Kshatra Pati, to Union Carbide Canada Limited. Pour oppoint depressant for middle distillates. 3,454,378, 7-8-69, Cl. 44-62.

Singh, Shobha: *See—*
Geusic, Joseph E.; and Singh, Shobha,3,453,604.
Guggenheim, Howard J.; and Singh, Shobha,3,485,551.

Singh, Virendra, to Mirrlees National Limited. Internal combustion engines. 3,425,512, 2-4-69, Cl. 184-6.

Singhal, Gopal Hari, to Pennsalt Chemicals Corporation. Method of preparation of ketenimines. 3,439,037, 4-15-69, Cl. 260-566.

Single Cell Research Foundation, Inc.: *See—*
Claff, Clarence Lloyd; and Crescenzi, Armand A., 3,482,575.

Single, Charles H.: *See—*
Gilbert, Edward O.; and Single, Charles H.,3,484,594.

Singleterry, Joe N., to Phillips Petroleum Company. Removal of peroxides from a cyclohexene stream. 3,420,906, 1-7-69, Cl. 260-666.5

Singleton, Andrew D.: *See—*
Eggen, Ingmar B.; and Singleton, Andrew D.,3,445,238.

Singleton, Frank: *See—*
Harrison, Donald Britton; Morris, Joseph Robert; and Singleton, Frank,3,450,439.

Singleton, Henry Lavon, to Lely Corporation, The. Device for spreading granular or powdery material. 3,473,739, 10-21-69, Cl. 239-664.
Singleton, John C.; McCullough, Donald H.; and Hartz, Raymond J., to Diamond Power Specialty Corporation. Nutating-type actuator. 3,428,839, 2-18-69, Cl. 310-82.
Singleton, Richard H.: *See—*
Miller, Donald G.; and Singleton, Richard H.,3,486,833.
Singleton, Robert J., to United States of America, Navy. Electronic measurement system for use with cable towed bodies. 3,479,645, 11-18-69, Cl. 340-150.
Singleton, Thomas C.: *See—*
Hartnett, Robert L.; and Singleton, Thomas C.,3,481,995.
Price, Jerry L.; and Singleton, Thomas C.,3,429,186.
Singleton, William A.: *See—*
McMichael, Charles E.; and Singleton, William A.,3,455,700.
Singmaster & Breyer: *See—*
Chelminski, Roman; and Somerville, Robert L., 3,472,619.
Sington, Edward Peter Campbell, to Revertex Ltd. Method for preparing woven carpets and the carpets produced therefrom. 3,457,135; 7-22-69, Cl. 161-66.
Sington, Edward Peter Campbell. Process for backing textiles with rubber and resultant product. 3,486,920, 12-30-69, Cl. 117-10.
Sinjou, Johannes Petrus: *See—*
van der Put, Henricus Cornelis Adrianus; and Sinjou, Johannes Petrus,3,459,097.
Sink, William H., to Dana Corporation. Clutch with noise and wear suppression. 3,424,288, 1-28-69, Cl. 192-70.16
Sinkey, Vernon J.: *See—*
Argabright, Perry A.; Sinkey, Vernon J.; and Phillips, Brian L.,3,458,448.
Sinkula, Anthony A.: *See—*
Houtman, Ronald L.; Morozowich, Walter; and Sinkula, Anthony A.,3,479,334.
Sinn, Hartmut: *See—*
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,458,120.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,459,367.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,463,385.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,463,387.
Sinn, Richard: *See—*
Stockburger, Dieter; Sinn, Richard; Raichle, Ludwig; Buschmann, Karl; and Stege, Wolf-Dieter,3,449,238.
Sinnema, Feije H.: *See—*
Vegter, Geert C.; and Sinnema, Feije H.,3,471,421.
Sinnette, John T., Jr.: *See—*
Haussmann, Hans K.; and Sinnette, John T., Jr.,3,486,338.
Sinnott, David J., to Powers & Eaton Industries, Inc. Photoelectric apparatus for providing information about the width of matrices in a line casting machines. 3,433,965, 3-18-69, Cl. 250-219.
Sinnott, David J., to Powers & Eaton Industries, Inc. Signaling attachment for a line-casting machine. 3,446,925, 5-27-69, Cl. 200-52.
Sinnott, David J., to Powers & Easton Industries, Inc. Apparatus for automatic justification of line- casting matrices assembled by a coded tape. 3,466,604, 9-9-69, Cl. 340-147.
Sinoto, Yosinori. Convertible box. 3,451,612, 6-24-69, Cl. 229-38.
Sinson, Elwood A.: *See—*
Heckrotte, Robert S.; Lewis, Edward F.; and Sinson, Elwood A.,3,428,289.
Sintermetallwerk Krebsoge G.m.b.H: *See—*
Reinstadler, Rudolf, 3,427,156.
Zapf, Gerhard, 3,455,138.
Sioles, George W.; Murtaugh, Thomas D.; and Ryan, John W., to Mattel, Inc. Voice amplifier toy. 3,484,799, 12-16-69, Cl. 46-182.
Siot, Roger Jean Jules, to Etablissements Ed. Jaeger S.A. Driven balance wheel device. 3,439,545, 4-22-69, Cl. 74-1.5
Sipes, William A., to United States of America, Navy. Method for simulating enviromental conditions. 3,439,531, 4-22-69, Cl. 73-86.
Sipin, Anatole J. Snap action pressure switch. 3,423,552, 1-21-69, Cl. 200-83.
Sipin, Anatole J. Skid-resisting systems. 3,451,460, 6-24-69, Cl. 152-417.
Sipin, Anatole J. Mass flow metering means. 3,485,098, 12-23-69, Cl. 73-194.
Sipin, Richard F., to Miehle-Goss-Dexter, Incorporated. Side register control means for the plate cylinders of interchangeable printing modules. 3,473,469, 10-21-69, Cl. 101-217.
Sipkes, Hendrik: *See—*
Preusser, Anton A. H.; and Sipkes, Hendrik,3,424,553.
Siple, James C.: *See—*
Hunter, Darrell L.; and Siple, James C.,3,459,587.
Sipos, Dezso. Poising machine. 3,474,676, 10-28-69, Cl. 73-480.
Sipos, Walter. Cigarette filter assembly. 3,486,508, 12-30-69, Cl. 131-10.5
Siposs, George Geza, to Edwards Laboratories, Inc. Heart valve prosthesis having a cloth covered body. 3,466,671, 9-16-69, Cl. 3-1.
Sippekamp, Oskar: *See—*
Schunemann, Rudiger; and Sippekamp, Oskar,3,421,087.
Sippel, Donald G., to Ford Motor Company. Movable steering column having vertical tilt adjustment and swing-away position. 3,421,385, 1-14-69, Cl. 74-493.
Sippel, Donald G., to Ford Motor Company. Movable steering column having releasable latch means. 3,421,386, 1-14-69, Cl. 74-493.
Sippel, Hans Joachim: *See—*
Daum, Whilhelm; and Sippel, Hans Joachim,3,420,931.
Sippel, Roy J., to Du Pont de Nemours, E. I., and Company. Preparation of silica sols of minimum turbidity. 3,440,176, 4-22-69, Cl. 252-313.
Sippican Corporation, The: *See—*
Conrad, Thomas W., 3,474,217.
Sipple, Peter A.: *See—*
Cooley, Gerald J.; Cormier, Thomas E.; and Sipple, Peter A.,3,463,869.
Sippola, Leo W. Gasoline spillage catcher. 3,451,445, 6-24-69, Cl. 141-285.
Sipress, Jack M.; and Zarins, Egils, to Bell Telephone Laboratories, Incorporated. Error detection in paired selected ternary code trains. 3,439,330, 4-15-69, Cl. 340-146.1
S.I.P.S. Societe pour l'Identification Photographique du Groupe Sanguin:*See—*
Al Marachy, Pierre F., 3,453,941.
Siptrott, Fred M. Hydro-centrifugal reactor. 3,434,284, 3-25-69, Cl. 60-54.
Sir Laboratori Chimico-Biologici S.p.A.: *See—*
Gigante, Pietro; Antoniu, Demetrio; Ganzina, Fabrizio; Magi, Mario; and Serino, Enrico, 3,467,705.
Siracusa, Gianni. Garbage disposal system. 3,473,494, 10-21-69, Cl. 110-15.
Sirago, James J. Plastic package. 3,456,784, 7-22-69, Cl. 206-78.
Siragusa, Frank. Filter. 3,433,231, 3-18-69, Cl. 131-10.5
Siragusa, Frank. Filter. 3,457,927, 7-29-69, Cl. 131-10.5
Sirco Manufacturing, Inc.: *See—*
Blevins, Kenneth A., 3,474,743.
Siri, Louis J.; and Embury, Philip W., Jr., to Qualitrol Corporation. Remote indicating thermometer circuit control device. 3,451,026, 6-17-69, Cl. 337-322.
Sirianni, Guy V.: *See—*
Viens, George E.; Campbell, Robert A.; Banks, George N.; Sachdeva, Roshan L.; and Sirianni, Guy V.,3,441,651.
Sirois, Robert J. Radius and angle tangent dresser. 3,474,772, 10-28-69, Cl. 125-11.
Sirola, Frank. Cut-off tool. 3,455,001, 7-15-69, Cl. 29-96.
Sironi, Giuseppe: *See—*
Veronica, Giacinto; Sironi, Giuseppe; and Colombini, Ariano,3,479,177.
Sirota, Julius; and Kennedy, James A., Jr., to National Starch and Chemical Corporation. Chewing gum compositions. 3,473,932, 10-21-69, Cl. 99-135.
Sirovatka, George J.: *See—*
Ferris, Charles L.; Babecki, Robert J.; Braathen, Finn N.; and Sirovatka, George J.,3,446,106.
Sirtl, Erhard, to Siemens Aktiengesellschaft. Method of epitaxial deposition wherein spent reaction gases are added to fresh reaction gas as a viscosity-increasing component. 3,445,300, 5-20-69, Cl. 148-175.
Sirtl, Erhard, to Siemens Aktiengesellschaft. Method of producing semiconductor members. 3,447,977, 6-3-69, Cl. 148-174.
Sirtl, Erhard, to Siemens Aktiengesellschaft. Gas etching followed by gas plating. 3,460,985, 8-12-69, Cl. 117-213.
Sirtl, Erhard; and Seiter, Hartmut, to Siemens Aktiengesellschaft. Smooth surface polycrystals. 3,476,640, 11-4-69, Cl. 161-164.
Sirtoli, Mario: *See—*
Crocella, Paolo; and Sirtoli, Mario,3,440,996.
Sisk, Hollis D., to Wagner Electric Corporation. Laminated motor stator with bonding material, through bolts, and welds. 3,465,188, 9-2-69, Cl. 310-217.
Sisler, Frederick D. Biochemical fuel cell. 3,477,879, 11-11-69, Cl. 136-86.
Sisler, Remo. Apparatus for shaping metal rods. 3,438,237, 4-15-69, Cl. 72-310.
Sisler, Robert L. Foldaway wall mounted support. 3,420,488, 1-7-69, Cl. 248-291.
Sisler, Robert R., to General Electric Company. Electric clutch with speed control. 3,463,285, 8-26-69, Cl. 192-104.
Sisson, Cecil G.; Foster, James L.; and Myers, Clyde B., to Diamond Shamrock Corporation. Process for the production of calcium carbonate. 3,443,890, 5-13-69, Cl. 23-66.
Sisson, James B.; and Kieffer, Ronald J., to Procter & Gamble Company, The. Process for the removal of fines from wood pulp fibers. 3,441,130, 4-29-69, Cl. 209-2.
Sisson, Kenneth O., to General Motors Corporation. Domestic clothes washer having improved speed control means. 3,425,559, 2-4-69, Cl. 210-138.
Sissons, Frank M., Jr.; and Goering, Gordon, to Phillips Petroleum Company. Distillation system with temperature control of reflux liquid. 3,446,710, 5-27-69, Cl. 202-160.

Sitaramarao, Krishnappa: *See—*
Das Gupta, Ranjit; Jayasimha, Mysore Somasekhara Rau; Sitaramarao, Krishnappa; and Yegnanarayan, Rangaiyer,3,436,568.
Sitarik, Joseph P., to Bell Telephone Laboratories, Incorporated. Call reroute disabling equipment. 3,479,464, 11-18-69, Cl. 179-18.
Siteman, David C., to Olympic Plastics Company, Inc. Method of making a self-locking structure. 3,445,559, 5-20-69, Cl. 264-263.
Sitges Menendez, Francisco Javier; and Arregui Fernandez, Vicente, to Compagnie Royale Asturienne des Mines. Process for recovering zinc from ferrites. 3,434,798, 3-25-69, Cl. 23-125.
Sitko, Antoni L.: *See—*
Bergeron, Normand; Harriman, Allen C.; and Sitko, Antoni L.,3,477,079.
Sitler, Donald D.; and Christianson, William O., to UMC Industries, Inc. Destruction actuation circuit. 3,470,419, 9-30-69, Cl. 317-80.
Sitnikov, Leonid Semenovich: *See—*
Sigorsky, Vitaly Petrovich; Molchanov, Alexandr Artemjevich; Sitnikov, Leonid Semenovich; and Utjakov, Lev Lazarevich,3,423,703.
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich; Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich,3,430,150.
Sitnikova, Svetlana Georgievna: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Sitro, Igor Nikolaevich: *See—*
Kazantsev, Boris Afanasievich; Sitro, Igor Nikolaevich; Malyk, Vladimir Avksentievich; and Elyashev, Isaak Grigorievich,3,431,855.
Sitte, Richard; and Willems, Gunter, to Koppers-Wistra-Ofenbau GmbH. Burner for metallurgical furnaces. 3,480,375, 11-25-69, Cl. 431-158.
Sitter, David N., to General Electric Company. Amplifier for photocell. 3,424,908, 1-28-69, Cl. 250-206.
Sitter, Donald F.; and Herzog, Robert P., to American Sterilizer Company. Surgical light and optical fiber bundle combination. 3,446,952, 5-27-69, Cl. 240-1.4
Sittner, Edward H.: *See—*
Cordani, Eugene J.; and Sittner, Edward H.,3,431,868.
Sitton, Robert Milo William, to Ferranti Limited. Indicating instruments with scale-law changing circuit. 3,486,114, 12-23-69, Cl. 324-132.
Sitz, Gilbert Carl, to AMP Incorporated. Universal multiple switch. 3,480,745, 11-25-69, Cl. 200-14.
Sitzler, Fred C.; Kendall, Jerry A.; and Berg, Quentin, to Berg Electronics, Inc. Connector block. 3,430,185, 2-25-69, Cl. 339-59.
Siuda, Karl, to Hasler AG. Circuit for signaling individual alterations of binary information. 3,484,754, 12-16-69, Cl. 340-173.
Siuta, Walter T., to National Lead Company. Photo chemically inert resinous compositions pigmented by titanium dioxide and containing an inorganic nitrate. 3,427,278, 2-11-69, Cl. 260-39.
Sivadon, John. Expansion seal for downsprouts. 3,482,858, 12-9-69, Cl. 285-302.
Sivalls Tanks, Inc.: *See—*
Perry, Charles R., 3,422,028.
Sivertsen, John W. Key retainer. 3,459,017, 8-5-69, Cl. 70-457.
Sivertsen, Ove Mareno: *See—*
Straney, Kenneth Orral; and Sivertsen, Ove Mareno,3,422,831.
Sivilotti, Olivo Giuseppe; and Carlsson, Pervi, to Allmanna Svenska Elektriska Aktiebolaget. Strip flatness sensor. 3,481,194, 12-2-69, Cl. 73-144.
Sivyer, Raymond Frank: *See—*
Birt, David Edward; Sivyer, Raymond Frank; and Webley, Reginald Sidney,3,460,105.
Sivyer, Raymond Frank, to Electric & Musical Industries Limited. Digital storage devices with tunable capacitative element for suppression. 3,467,950, 9-16-69, Cl. 340-173.
Sivyer Steel Casting Company: *See—*
Steck, Alfred B., 3,453,229.
Siwek, Stanley Z., to Pioneer Gen-E-Motor Corporation. Guard and deflector plate for rotary lawn mowers. 3,423,918, 1-28-69, Cl. 56-202.
Siwersson, Olle Lennart; and Tell, Karl Gunnar. Conveying apparatuses. 3,476,296, 11-4-69, Cl. 222-381.
Siwersson, Olle Lennart; and Tell, Karl Gunnar. Manure spreaders. 3,478,970, 11-18-69, Cl. 239-687.
Siwinski, Guy: *See—*
Monici, Andre; and Siwinski, Guy,3,474,180.
Siwko, Eric I.; and Saunders, William F., to Fenwal Incorporated. Arc suppressing circuits. 3,474,293, 10-21-69, Cl. 317-11.
Siwko, Karol, to Radio Corporation of America. Inter-stage coupling circuit for neutralizing internal feedback in transistor amplifiers. 3,441,865, 4-29-69, Cl. 330-21.
Six, Ludwig; Niemann, Rudolf; and Karlsruhe, Baden, to Industrie-Werke Karlsruhe Aktiengesellschaft. Infantry rifle bullet. 3,442,216, 5-6-69, Cl. 102-92.2
Six, Pieter Jacob, to Maatschappij Van Berkel's Patent N.V. Weighing machine with optical projection. 3,477,781, 11-11-69, Cl. 353-22.
Six, Rudolf E., to Udylite Corporation, The. Steep wave front sensing circuit. 3,421,051, 1-7-69, Cl. 317-23.
Sixt, Marty E., to Advanced Drainage Systems, Inc. Adapter. 3,471,179, 10-7-69, Cl. 285-176.
Sixt, Marty E.: *See—*
Magruder, William R.; Sixt, Marty E.; and Steiner Roger H.,3,448,648.
Sizelove, John R.: *See—*
Love, John A., III; and Sizelove, John R.,3,435,236.
Love, John A., III; and Sizelove, John R.,3,452,204.
Sizemore, Kenneth O.: *See—*
Ford, Floyd E.; and Sizemore, Kenneth O.,3,454,859.
Ford, Floyd E.; Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,470,441.
Ford, Floyd E.; Liwski, Piotr P. M.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,447,059.
Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O.,3,426,263.
Sizer, John H., Jr.; and Giner, Jose, to United Aircraft Corporation. Intermediate temperature packed fuel cells. 3,470,028, 9-30-69, Cl. 136-86.
Sizer, Phillip S., to Otis Engineering Corporation. Means for operating a well having a plurality of flow conductors therein. 3,448,803, 6-10-69, Cl. 166-115.
Sizer, Phillip S., to Otis Engineering Corporation. Well head closure assembly. 3,454,084, 7-8-69, Cl. 166-0.6
Sizer, Phillip S.; and Taylor, Donald F., Jr. Well tools. 3,457,991, 7-29-69, Cl. 166-0.5
Sizer, Phillip S.; and Taylor, Frank H., to Otis Engineering Corporation. Flow control means in underwater well system. 3,481,395, 12-2-69, Cl. 166-0.5
Sizer, William C. Device for storing and dispensing hot food. 3,465,919, 9-9-69, Cl. 222-146.
Sjoberg, Berndt Olof Harald: *See—*
Ekstrom, Bertil Ake; and Sjoberg, Berndt Olof Harald,3,471,474.
Sjoblom, Eric A., to AB Grythyttans Stalmobler. Goods support for pallets. 3,476,060, 11-4-69, Cl. 108-55.
Sjoblom, Jorma J., to United States of America, Navy, mesne. Submarine wake simulation generating system for self-propelled submarine target. 3,433,196, 3-18-69, Cl. 114-67.
Sjoholm, Claes Bertil: *See—*
Falkenblad, Nils Tore; and Sjoholm, Claes Bertil,3,433,454.
Sjolander, Neel Oscar: *See—*
McCormick, Jerry Robert Daniel; and Sjolander, Neel Oscar,3,433,709.
Sjolander, Newell Oscar: *See—*
McCormick, Jerry Robert Daniel; Joachim, Ursula; Jensen, Elmer Raymond; and Sjolander, Newell Oscar,3,431,303.
McCormick, Jerry Robert Daniel; Johnson, Sylvia Jennie; and Sjolander, Newell Oscar,3,433,710.
Sjostom Automations, Inc.: *See—*
Sjostrom, Robert L., 3,451,562.
Sjostrand, Gerald D. Apparatus and method for cutting sheet material. 3,435,716, 4-1-69, Cl. 83-37.
Sjostrand, Gerald D. Device for dispensing viscous materials. 3,456,849, 7-22-69, Cl. 222-146.
Sjostrom Automations, Inc.: *See—*
Sjostrom, Robert L., 3,449,592.
Sjostrom, Robert L., 3,487,441.
Sjostrom, Robert L., to Sjostrom Automations, Inc. Timer control for textile folding machines or the like. 3,449,592, 6-10-69, Cl. 307-141.
Sjostrom, Robert L., to Sjostom Automations, Inc. Stacker. 3,451,562, 6-24-69, Cl. 214-6.
Sjostrom, Robert L., to Sjostrom Automations, Inc. Cross folder stacker. 3,487,441, 12-30-69, Cl. 214-6.
Sjotun, Kyrre Guttorm, to Danfoss A/S. Detachable stop ring for a shaft. 3,441,325, 4-29-69, Cl. 308-161.
Skaggs, Clyde W.: *See—*
Heath, Herbert E.; and Skaggs, Clyde W.,3,423,260.
Skaggs, Clyde W.; and Jefferson, Clifford T., Jr., to Bunker-Ramo Corporation, The. Method of making thin-film circuits. 3,423,205, 1-21-69, Cl. 96-36.2
Skala, Dennis P.: *See—*
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard,3,455,100.
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard,3,486,546.
Skala, George F., to General Electric Company. Portable condensation nuclei detector. 3,463,589, 8-26-69, Cl. 356-37.
Skala, George F.: *See—*
Rich, Theodore A.; Groves, James N.; and Skala, George F.,3,458,284.

Skala, Hertha; Broughton, Donald B.; De Rosset, Armand J.; and Lickus, A. Gregory, to Universal Oil Products Company. Zeolite regeneration process. 3,437,601, 4-8-69, Cl. 252-414.
Skaletzky, Louis L., to Upjohn Company, The. 4-Phenyl-perhydrocycloalkoxazines. 3,452,011, 6-24-69, Cl. 260-244.
Skaliks, Willi: *See—*
Offermanns, Hubert; and Skaliks, Willi,3,425,917.
Skalka, Albert J. Grain bin fill gauge with paddle actuators. 3,443,437, 5-13-69, Cl. 73-290.
Skalka, Stanley, to Stanley, Victor, Inc. Enclosed rotary storage cabinet. 3,484,145, 12-16-69, Cl. 312-11.
Skalla, Norbert Franz: *See—*
Maier, Kurt Maria; Mayer, Viktor; Mortl, Gunther Lorenz; and Skalla, Norbert Franz,3,429,723.
Skalski, Clement A.; and Stiles, John C., to Singer-General Precision, Inc. Motion sensing apparatus. 3,433,568, 3-18-69, Cl. 356-106.
Skalski, Clement A.; and Stiles, John C., to Singer-General Precision, Inc. Motion sensing apparatus. 3,484,169, 12-16-69, Cl. 356-106.
Skamfer, Robert E.; and Baker, Donal E., to Westinghouse Electric Corporation. Electrical control circuits. 3,486,038, 12-23-69, Cl. 307-133.
Skandinaviska Apparatindustri Aktiebolaget Saiap: *See—*
Jarreby, Karl Axel Bertil, 3,425,488.
Skandinaviska Processinstrument AB: *See—*
Agdur, Nils Bertil; and Weissglas, Peter, 3,470,734.
Agdur, Nils Bertil; and Hedvall, Per Olof Gunnar, 3,478,187.
Skaptason, Johann S.: *See—*
Erby, William A.; Erner, William E.; Skaptason, Johann S.; and Walde, Robert A.,3,472,004.
Skaptason, Joseph B.: *See—*
Schwartz, Herbert; and Skaptason, Joseph B.,3,446,827.
Schwartz, Herbert; and Skaptason, Joseph B.,3,484,484.
Skar, Harald: *See—*
Glandin, Constan; and Skar, Harald,3,481,021.
Skardal, Karl Arvid, to Aktiebolaget Celleco. Method for fractionating a suspension of solid particles. 3,446,354, 5-27-69, Cl. 209-250.
Skarpengland, Bjorn Frost: *See—*
Christensen, Frede; Henningsen, Christian Johannes; Larsson, Bernt Arne Rudolf; Knipstrom, Karl-Erik; and Skarpengland, Bjorn Frost,3,427,527.
Skarvinko, Eugene R., to International Business Machines Corporation. Method of using photographic vesicular and diazo films having diazo antihalation layers. 3,466,172, 9-9-69, Cl. 96-49.
Skatsche, Othmar: *See—*
Scheiterlein, Andreas; Skatsche, Othmar; and Thien, Gerhard,3,464,398.
Schreiber, Erich; and Skatsche, Othmar,3,464,257.
Skau, Evald L.; Mod, Robert R.; and Magne, Frank C., to United States of America, Agriculture. N-decanoyl-piperidines. 3,420,837, 1-7-69, Cl. 260-294.7
Skau, Evld L.; Mod, Robert R.; and Magne, Frank C., to United States of America, Agriculture. N, N'-dioleoyl-2,2'-di-piperidylmethane. 3,431,269, 3-4-69, Cl. 260-294.
Skaug, Jan A.; and Kjelland-Fosterud, Einar, to Institutt for Atomenergi. Vapour separation systems. 3,452,518, 7-1-69, Cl. 55-204.
Skaugen, Borg, to Beloit Corporation. Nondeflection support for web carrying roll. 3,430,319, 3-4-69, Cl. 29-116.
Skeen, Andrew E.: *See—*
Mitacek, Bill; and Skeen, Andrew E.,3,468,688.
Skeena Kenworth Ltd.: *See—*
Murie, Peter, Jr.; and Scotton, William R., 3,439,934.
Skeggs, Leonard T.: *See—*
Isreeli, Jack; and Skeggs, Leonard T.,3,464,794.
Isreeli, Jack; and Skeggs, Leonard T.,3,479,142.
Skeggs, Leonard T., to Technicon Corporation. Automatic analysis apparatus control means. 3,424,557, 1-28-69, Cl. 23-253.
Skei, Edward C.: *See—*
Moore, William A.; Gross, Arthur; and Skei, Edward C.,3,485,475.
Skelleftea Gummifabriks A.-B.: *See—*
Brandt, Bertil; and Svensson, Assar, 3,480,321.
Svensson, Assar Natanael; and Brandt, Bertil, 3,456,795.
Svensson, Assar Natanael, 3,463,562.
Skelley, Francis D. Filter cartridge and method of making same. 3,442,392, 5-6-69, Cl. 210-491.
Skelley, John W.; and Grandel, Leonard F., to General Motors Corporation. Steering column transmission shift control. 3,433,088, 3-18-69, Cl. 74-484.
Skelly, David C.: *See—*
Garber, John A.; Leaman, Theodore R.; and Skelly, David C.,3,421,749.
Skelly Oil Company: *See—*
Everhart, Clifford R.; and Cary, Audra B., 3,437,146.
Flickinger, Earl Dan; and Isom, Jessie Tom, 3,436,429.
Flickinger, Earl Dan, 3,437,699.
Flickinger, Earl Dan, 3,441,618.
Skelton Corporation, The: *See—*
Skelton, Talmadge D., 3,435,595.
Skelton, Robert F., to Mix-Mill, Inc., mesne. Flow meter for installation in an auger system. 3,426,595, 2-11-69, Cl. 73-230.
Skelton, Robert F., to Mix-Mill, Inc. Auger corner with relief and shutoff switch. 3,430,011, 2-25-69, Cl. 200-61.21
Skelton, Talmadge D., to Skelton Corporation, The. Apparatus for reclaiming paraffin and other liquids from a gas flow line. 3,435,595, 4-1-69, Cl. 55-169.
Skelton, William B., Jr.: *See—*
Dennis, Fred Stanley; and Skelton, William B., Jr.,3,423,501.
Skenderoff, Claude; and Symaniec, Leonidas, to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Radar receiver having improved optical correlation means. 3,483,557, 12-9-69, Cl. 343-9.
Skerman, Victor Bruce Darlington, to University of Queensland, The. Microscope micromanipulator support. 3,438,690, 4-15-69, Cl. 350-81.
Sketch, Harry F.: *See—*
Stoi, Walter T.; De Lorme, Albert R.; and Sketch, Harry F.,3,431,371.
SKF Industries Inc.: *See—*
Fernlund, Ingemar, 3,447,841.
Gehret, Frederick A., 3,472,519.
Gothberg, Karl Evald Andreas, 3,439,962.
Harris, Tedric A.; and Wellons, Frank W., 3,447,849.
Helms, John F., 3,473,856.
Sibley, Lewis B.; and Rhoads, William L., 3,450,449.
Spence, Thomas E., 3,443,443.
Strom, Bertil; and Radtke, Norbert V., 3,423,887.
Strom, Bertil; and Weissing, Otto, 3,455,064.
Tallian, Tibor E.; and Sibley, Lewis B., 3,421,799.
Tallian, Tibor E.; and Sibley, Lewis B., 3,484,143.
SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung: *See—*
Schmid, Ewin Friedrich, 3,462,937.
Skibiak, John G.: *See—*
Biasi, Edward T.; and Skibiak, John G.,3,431,115.
Skidmore, John E., to Procter & Gamble Company, The. Measuring device for packaged products. 3,458,078, 7-29-69, Cl. 220-22.
Skidmore, Richard H.: *See—*
Moonan, William; and Skidmore, Richard H.,3,444,906.
Skil Corporation: *See—*
Gawron, Alex F., 3,424,962.
Holtz, Ralph F., 3,454,113.
Rebechini, Peter G., 3,477,353.
Skiles, Ernest W.: *See—*
Feldt, Ralph L.; Montle, John F.; and Skiles, Ernest W.,3,469,071.
Skiles, Richard D.: *See—*
Kuderna, Jerome G., Jr.; and Skiles, Richard D.,3,478,105.
Skill-Di., Inc.: *See—*
Reitherman, Ralph W., 3,460,001.
Skillen, William R., to Somerville Industries, Limited. Handle device for necked containers. 3,442,547, 5-6-69, Cl. 294-87.2
Skilling, James K., to General Radio Company. Tunnel diode-transistor bistable amplifier circuit. 3,435,366, 3-25-69, Cl. 330-69.
Skime, Roger H.: *See—*
Swenson, Lowell T.; and Skime, Roger H.,3,485,312.
Skinner, Angus Evan: *See—*
Bishop, Alan Wilfred; and Skinner, Angus Evan,3,448,608.
Skinner, Clayton H.; and Kolarik, Paul J., to Hewitt-Robins Incorporated. Marine hose connector and spacer device. 3,428,092, 2-18-69, Cl. 138-110.
Skinner, Clayton H.; and Sick, Paul J., to Hewitt-Robins Incorporated. Gas permeable flexible hose. 3,420,276, 1-7-69, Cl. 138-127.
Skinner, Clayton H.; and Sick, Paul J., to Hewitt-Robins Incorporated. Flexible hose and coupling therefor. 3,462,177, 8-19-69, Cl. 285-149.
Skinner, David L., to Procter & Gamble Company, The. Reactions of alkali metal tetraakylaluminum compounds with active halogen compounds. 3,468,971, 9-23-69, Cl. 260-677.
Skinner, Edward A., to Aerpat A.G., mesne. Packages. 3,486,613, 12-30-69, Cl. 206-56.
Skinner, Frank R., II., to United States of America, Army. Land mine. 3,464,354, 9-2-69, Cl. 102-8.
Skinner, Harold S.: *See—*
Matulich, Dan S.; and Skinner, Harold S.,3,465,962.
Skinner, Harvey G., to Westmoreland Plastics Company, mesne. Valve mechanisms. 3,434,694, 3-25-69, Cl. 251-215.
Skinner, James R.: *See—*
Hetherington, James S.; and Skinner, James R.,3,469,013.
Skinner, John G., to Bell Telephone Laboratories, Incorporated. Electro-optical beam deflection apparatus. 3,447,855, 6-3-69, Cl. 350-150.
Skinner, Kenneth R., to General Motors Corporation. Regulated anti-lock braking system. 3,433,536, 3-18-69, Cl. 303-21.

Skinner, Kenneth R.; and Clayton, David P., to General Motors Corporation. Dual purpose flasher and motor vehicle signaling system incorporating same. 3,447,131, 5-27-69, Cl. 340-80.
Skinner, Kenneth R.; and Vickery, Monte L., to General Motors Corporation. Motor vehicle signaling system. 3,447,130, 5-27-69, Cl. 340-80.
Skinner, Norton D.: *See*—
Carrieri, Louis F.; and Skinner, Norton D.,3,433,086.
Skinner Precision Industries, Inc.: *See*—
Chung, Kwangho, 3,440,532.
Skinner, Ralph L., Sr., to Renniks Corporation. Seal. 3,442,517, 5-6-69, Cl. 277-48.
Skinner, Ralph L., Sr., to Renniks Corporation. Seal assembly for valve stems and the like. 3,450,411, 6-17-69, Cl. 277-48.
Skinner, Robert Thomas John, to Lucas, Joseph, (Industries) Limited. Liquid pumps. 3,452,679, 7-1-69, Cl. 103-96.
Skinner, Robert Thomas John, to Lucas, Joseph, (Industries) Limited. Liquid displacement pumps. 3,459,130, 8-5-69, Cl. 103-2.
Skinner, Robert Thomas John, to Lucas, Joseph, (Industries) Limited. Fuel system for a gas turbine engine. 3,468,333, 9-23-69, Cl. 137-110.
Skinner, Robert Thomas John, to Lucas, Joseph, (Industries) Limited. Liquid pumps. 3,476,051, 11-4-69, Cl. 103-5.
Skinner, Stanley John, to Monsanto Chemicals Limited. Process and apparatus for extruding foamed articles free from warping. 3,427,371, 2-11-69, Cl. 264-41.
Skinner, Warren: *See*—
Crisafulli, Angelo J.; and Skinner, Warren,3,479,033.
Skinner, Wilfred A., Jr.: *See*—
Ludwi, Bernard J.; Diamond, Julius; and Skinner, Wilfred A., Jr.,3,420,890.
Skinner, Wilfrid Jesse: *See*—
Carnell, Peter John Herbert; Skinner, Wilfrid Jesse; and Spencer, Michael Staines,3,445,354.
Skirde, Gerhard: *See*—
Dolitzsch, Heinz; and Skirde, Gerhard,3,425,080.
Skirvin, Clifford D., to Microdot Inc. Illuminating system for simulating bubbles. 3,431,465, 3-4-69, Cl. 315-363.
Skirvin, Clifford D., to Microdot, Inc. System for producing illumination of progressive portions of a gas-filled luminescent tube. 3,440,488, 4-22-69, Cl. 315-209.
Skirvin, Clifford D., to Microdot, Inc. Fluorescent discharge lamp. 3,444,415, 5-13-69, Cl. 313-109.
Skirvin, Clifford D., to Microdot Inc. Lighting system. 3,467,887, 9-16-69, Cl. 315-209.
Skirvin, Kenneth: *See*—
Lawalin, Harold L.; and Skirvin, Kenneth,3,430,767.
Lawalin, Harold L.; and Skirvin, Kenneth,3,441,002.
Sklar, Harry. Knife. 3,448,518, 6-10-69, Cl. 30-162.
Sklaroff, Morton, to Honeywell, Inc. Process control apparatus. 3,427,442, 2-11-69, Cl. 235-151.1
Sklaroff, Morton, to Honeywell Inc. Digital flowmeter. 3,487,307, 12-30-69, Cl. 328-134.
Skochdopole, Richard E.; and Denslow, Keith R., to Dow Chemical Company, The. Method of producing collapsed expandable cellular chlorostyrene polymer product. 3,425,965, 2-4-69, Cl. 260-2.5
Skoda, Jan: *See*—
Culik, Karel; Palkoska, Josef; Vondracek, Miloslav; Skoda, Jan; and Herold, Milos,3,429,780.
Skoda, Jan; Hess, Vilem; and Sorm, Frantisek, to SPOFA, Spojene farmaceuticke zavody, narodni podnik. 6-Azauracil riboside. 3,468,759, 9-23-69, Cl. 195-28.
Skoda, narodni podnik: *See*—
Blazek, Otta; Herynk, Milon; and Rybar, Josef, 3,475,973.
Skoda, oborovy podnik: *See*—
Cerman, Josef; Louda, Zdenek; Nepozitek, Ladislav; and Zak, Erantisek, 3,486,573.
Kyr, Ladislav; Volenik, Jiri; and Raba, Frantisek, 3,478,257.
Skofronick, Bruce D., to Customark Corporation. Method of producing opaque shadow mark. 3,441,427, 4-29-69, Cl. 117-37.
Skofronick, Bruce D., to Customark Corporation. Method of rendering shadowmark opaque by solvent treatment. 3,443,979, 5-13-69, Cl. 117-37.
Skofronick, Bruce D., to Customark Corporation, mesne. Method of preparing security paper containing an ultraviolet inhibitor. 3,464,841, 9-2-69, Cl. 117-1.
Skofronick, Bruce D., to Customark Corporation. Water treated shadowmarks. 3,486,923, 12-30-69, Cl. 117-37.
Skog, Steinar: *See*—
Valbjorn, Knud V.; Kjeldsen, Kjeld; and Skog, Steinar,3,461,683.
Skoglosa, Nils H., to Alfa-Laval AB. Method and apparatus for raising animal stock. 3,426,731, 2-11-69, Cl. 119-15.
Skold, Mats Folke. Tool for joining reinforcing bars. 3,461,536, 8-19-69, Cl. 29-212.
Skoli, Eugene A.; Witt, Chester J.; Skoli, Sigmund P.; and Mojonnier, Harry G., to Mojonnier Bros., Co. Flow limit device. 3,468,335, 9-23-69, Cl. 137-486.
Skoli, Sigmund P., to Mojonnier Bros. Co. Flow control valve with plural diaphragm operator. 3,446,241, 5-27-69, Cl. 137-553.
Skoli, Sigmund P.: *See*—
Skoli, Eugene A.; Witt, Chester J.; Skoli, Sigmund P.; and Mojonnier, Harry G.,3,468,335.
Skolnik, Leonard: *See*—
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard,3,455,100.
Sidles, James; Skala, Dennis P.; and Skolnik, Leonard,3,486,546.
Skolnik, Phil. Sash balance. 3,478,384, 11-18-69, Cl. 16-197.
Skoog, Donald K., to Ingersoll-Rand Company. Acceleration limiting means for fluid motors. 3,421,735, 1-14-69, Cl. 253-1.
Skoog, Ivan H., to Minnesota Mining and Manufacturing Company. Silver halide emulsions containing red bleachable dyestuffs. 3,482,979, 12-9-69, Cl. 96-99.
Skopa, Denis Denisovivh: *See*—
Telyatnikov, Garry Vladimirovich; Khodorov, Evgeny Iosifovich; Evtjutov, Anatoly Akindinovich; Skopa, Denis Denisovivh; Chervinsky, Anatoly Alexeevich; Shilov, Alexandr Vladimirovich; and Kazantseva, Nina Mikhailovna,3,444,628.
Skora, Robert F.: *See*—
Mattes, William J.; and Skora, Robert F.,3,456,851.
Skorcz, Joseph A., to Colgate-Palmolive Company. Compositions and methods for relaxing skeletal muscles with O-substituted benzocyclobutenyl ketone oximes. 3,470,300, 9-30-69, Cl. 424-327.
Skorcz, Joseph A.; and Suh, John T., to Colgate-Palmolive Company. Arylmethylene derivatives of 2,1- benzisothiazoline. 3,472,843, 10-14-69, Cl. 260-240.
Skorcz, Joseph A.: *See*—
Suh, John T.; and Skorcz, Joseph A.,3,478,058.
Suh, John T.; and Skorcz, Joseph A.,3,478,059.
Skorup, Gordon E., to United States of America, Navy, mesne. Wide-entrance, narrow-exit thin sheet light guide with juxtaposed photosensor. 3,450,890, 6-17-69, Cl. 250-227.
Skoultchi, Martin, to National Starch and Chemical Corporation. Ethylenically unsaturated derivatives of benzophenone and cross-linkable polymers thereof. 3,429,852, 2-25-69, Cl. 260-47.
Skoultchi, Martin, to National Starch and Chemical Corporation. Ethylenially unsaturated derivatives of cinnamic acid and light resistant polymers prepared therefrom. 3,445,545, 5-20-69, Cl. 260-881.
Skoultchi, Martin; and Fertig, Joseph, to National Starch and Chemical Corporation. Salts of partial fatty esters of carboxylic polymers useful in aqueous coating compositions. 3,428,588, 2-18-69, Cl. 260-23.
Skoultchi, Martin; and Jubilee, Benjamin D., to National Starch and Chemical Corporation. Water-containing coating composition comprising a salt of an anhydride copolymer partial ester. 3,425,977, 2-4-69, Cl. 260-23.
Skoultchi, Martin; and Koehler, Frank Theodore, Jr., to National Starch and Chemical Corporation. Hair spray compositions containing an ultraviolet absorbing film forming copolymer. 3,445,566, 5-20-69, Cl. 424-47.
Skouson, Glenn W.; and White, Marvin H., to Westinghouse Electric Corporation. Semiconductor fabrication technique permitting examination of epitaxially grown layers. 3,473,977, 10-21-69, Cl. 148-175.
Skov, Raymond A.: *See*—
Cobb, Richard O.; and Skov, Raymond A.,3,437,869.
Skowronski, George Victor, to American Can Company. Package construction and blank therefor. 3,476,236, 11-4-69, Cl. 206-47.
Skrenes, David H.: *See*—
Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H.,3,480,795.
Skrepek, Jan; and Jakubec, Ivan, to Vyzkumny ustav pletarsky. Warp knit cord. 3,422,641, 1-21-69, Cl. 66-169.
Skrivan, Joseph Francis, to American Cyanamid Company. Process of preparing finely divided refractory oxides. 3,481,693, 12-2-69, Cl. 23-1.
Skromme, Arnold Burton, to Deere & Company. Material unloader. 3,474,926, 10-28-69, Cl. 214-519.
Skromme, Arnold Burton; Henningsen, Etlar August; and Hoffman, John E., Jr., to Deere & Company. Shielding mechanism. 3,462,975, 8-26-69, Cl. 64-32.
Skromme, Austin G.; and Maytum, James N., to Caterpillar Tractor Company. Two-piece master track link. 3,427,079, 2-11-69, Cl. 305-58.
Skromme, Robert B.: *See*—
Haen, Eugene P.; Skromme, Robert B.; and Smith, Robert W.,3,428,027.
Skruch, Norman J.; Nelson, Alvin I.; and Reiter, Alexander L., to Whirlpool Corporation. Transporting and storing fruit and vegetable products. 3,447,337, 6-3-69, Cl. 62-318.
Skrukrud, Baldwin P. Weather shields for plow blades. 3,454,108, 7-8-69, Cl. 172-776.

Skrzec, Adam E.: *See—*
Morley, Henry Barclay; Skrzec, Adam E.; and Shiloff, Jerome C.,3,454,359.
Skubic, Leroy F.; and Juten, Milford A., to Paltier Corporation, The. Mounting means. 3,449,883, 6-17-69, Cl. 52-710.
Skuinj, Alexandr Kasparovich: *See—*
Khachijan, Alexei Sergeevich; Skuinj, Alexandr Kasparovich; Lekhovitser, Moisei Alexandrovich; Linich, Viktor Vladimirovich; Shapovalov, Sergei Vasiljavich; and Ocheretin, Ivan Vasiljevich,3,480,418.
Skuja, Ivars M., to Audiscan Corporation. Film projection cartridge. 3,466,123, 9-9-69, Cl. 352-34.
Skullestad, Per S., to International Telephone and Telegraph Corporation. Negative resistance amplifier arrangement and method therefor. 3,451,005, 6-17-69, Cl. 330-61.
Skurla, John P.: *See—*
Starer, Robert; and Skurla, John P.,3,447,022.
Skuttle Manufacturing Company: *See—*
Stiles, Walter R., 3,476,673.
Stiles, Walter R., 3,480,209.
Skuttle Mfg., Co.: *See—*
Osborne, Jack D., 3,427,537.
Skvor, Josef: *See—*
Bezouska, Vlastimil; Skvor, Josef; Pajisek, Frantisek; Zavazal, Zdenek; and Polorny, Oldrich,3,435,304.
S. K. V., Societe Anonyme: *See—*
Binoche, Michel L., 3,463,395.
Skwirut, Henry: *See—*
Knochel, William J.; Skwirut, Henry; and Lin, Francis C. M.,3,467,510.
Skycar, Inc.: *See—*
Kelsey, Cadwallader W., 3,429,528.
Skygge, Carl Gosta: *See—*
Hannerz, Kare; Sundqvist, Cnut; and Skygge, Carl Gosta,3,446,704.
Kaipainen, Arto; Rullgard, Ake; Skygge, Carl Gosta; and Sundqvist, Cnut,3,437,557.
Skykomish Corporation: *See—*
Norman, Donald O.; and Hyatt, Marx, 3,473,265.
Skypala, Louis M., to Budd Company, The. Heater duct arrangement. 3,426,177, 2-4-69, Cl. 219-213.
Slaats, Mathew A.; and West, Roger T., to Kimball, W. W., Company. Player piano. 3,472,110, 10-14-69, Cl. 84-42.
Slabon, Ivan: *See—*
Ehrenstein, Elemir; and Slabon, Ivan,3,431,391.
Slack, Archie V., to Tennessee Valley Authority. Method of preparing ammoniated nitric acid-phosphate rock extracts. 3,477,843, 11-11-69, Cl. 71-39.
Slack, Ian David, to Placticisers Limited. Textile machines. 3,482,387, 12-9-69, Cl. 57-106.
Slack, John Donald; and Stoeckl, Walter Joseph. Safety closure for containers. 3,469,726, 9-30-69, Cl. 215-9.
Slack, John Donald; and Stoeckl, Walter Joseph. Safety closure for containers. 3,472,409, 10-14-69, Cl. 215-9.
Slack, John: *See—*
Holbert, Marvin L., Jr.; and Slack, John,3,478,822.
Slack, John, to Gray Tool Company. Petroleum well thermally activated safety relief device for differential pressure closing tubing safety valve. 3,450,202, 6-17-69, Cl. 166-53.
Slade, Winton Lloyd, to Raybestos-Manhattan, Inc. Wire-braided hydraulic hose. 3,463,197, 8-26-69, Cl. 138-125.
Slade, Winton Lloyd, to Raybestos-Manhattan, Inc. Electrically conductive polytetrafluoroethylene tubing. 3,473,087, 10-14-69, Cl. 317-2.
Slaga, Case J., to Advertising Metal Display Co. Rotating article display mount. 3,486,629, 12-30-69, Cl. 211-1.5
Slagel, Robert C.: *See—*
Bloomquist, Arnold E.; Sedor, Edward A.; and Slagel, Robert C.,3,485,806.
Slagel, Robert C., to Ashland Oil & Refining Company. Ozonolysis of halobicyclodiolefins and products derived therefrom. 3,437,667, 4-8-69, Cl. 260-338.
Slagel, Robert C., to Ashland Oil & Refining Company. Perfluorinated thiodiglycolic acid and derivatives thereof. 3,437,686, 4-8-69, Cl. 260-481.
Slagel, Robert C., to Ashland Oil & Refining Company. 2,5-Dichloro-3,6-dihydrazinobenzoquinones and derivatives thereof. 3,463,794, 8-26-69, Cl. 260-396.
Slagel, Roger D.: *See—*
Kah, Carl L. C., Jr.; and Slagel, Roger D.,3,460,560.
Slager, James Edward, to Miles Laboratories, Inc. Process for the electrolytic reduction of aromatic nitro compounds. 3,475,299, 10-28-69, Cl. 204-74.
Slager, John J.; and Webster, William C., to Hydronautics, Inc. Vessel stabilizer. 3,426,718, 2-11-69, Cl. 114-124.
Slagley, William E.; and Maloney, Lawrence G., to Inland Steel Company. High performance blast furnace stoves. 3,454,267, 7-8-69, Cl. 263-19.
Slagteriernes Forskningsinstitut: *See—*
Moller, Per Julius Leth, 3,434,223.
Slajchert, George: *See—*
Davis, Steven S.; and Slajchert, George,3,426,908.
Slakis, Albin Joseph: *See—*
Kuhr, Wayne Kenneth; Slakis, Albin Joseph; Hughes, Richard Lawrence; and Neilson, Anne Josephine,3,432,305.
Slama, Harold M.; and Capalite, Donald K. Fishing rod alarm system. 3,440,754, 4-29-69, Cl. 43-17.
Slana, Matthew F., to Bell Telephone Laboratories, Incorporated. Logic system including an emitter-follower amplifier having a two-terminal current-limiting device con- nected between its emitter electrode and a point of reference potential. 3,458,718, 7-29-69, Cl. 307-203.
Slanevsky, Anatoly Vasilievich: *See—*
Tkachev, Vladimir Vasilievich; Oganesov, Vladimir Nikitovich; and Slanevsky, Anatoly Vasilievich,3,467,321.
Slapnik, Joseph, to Sinclair-Koppers Company. Plastic container with self-locking lid. 3,424,341, 1-28-69, Cl. 220-60.
Slark, Norman Arthur: *See—*
Fuller, Edwin Russell; and Slark, Norman Arthur,3,461,336.
Slate, Johnny L.: *See—*
Leach, Harry S.; and Slate, Johnny L.,3,466,340.
Slater, Charles E., to Mosler Safe Company, The. Delay latch for blast valves. 3,420,155, 1-7-69, Cl. 98-119.
Slater Electric Inc.: *See—*
Norden, Alexander R., 3,427,418.
Norden, Alexander R., 3,471,670.
Slater, Frank Robert: *See—*
Simpson, Ronald Frank; and Slater, Frank Robert,3,462,816.
Slater, John M.: *See—*
Boltinghouse, Joseph C.; and Slater, John M.,3,443,320.
Slater, John M., to North American Rockwell Corporation. Pickoff system. 3,439,547, 4-22-69, Cl. 74-5.6
Slater, John M., to North American Rockwell Corporation. Space vehicle guidance system. 3,439,884, 4-22-69, Cl. 244-1.
Slater, John M., to North American Rockwell Corporation. Optical reference apparatus utilizing a cluster of telescopes aimed at a selected group of stars. 3,448,272, 6-3-69, Cl. 250-203.
Slater, Richard J.; and Bratton, Francis H., to Schjeldahl, G. T., Company. Inflatable communications satellite. 3,452,355, 6-24-69, Cl. 343-18.
Slater, William W.; and Thow, Lawrence E., to Celanese Coatings Company. Electrocoating process. 3,468,779, 9-23-69, Cl. 204-181.
Slates, Harry L.; and Wendler, Norman L., to Merck & Co., Inc. Photochemical preparation of azlactones and transformation thereof. 3,423,302, 1-21-69, Cl. 204-158.
Slates, Harry L.: *See—*
Taub, David; Wendler, Norman L.; and Slates, Harry L.,3,461,144.
Taub, David; Wendler, Norman L.; and Slates, Harry L.,3,485,854.
Wendler, Norman L.; and Slates, Harry L.,3,487,077.
Slates, Robert V.: *See—*
Ilkka, Gust A.; and Slates, Robert V.,3,426,097.
Slatin, Harvey L., to Timax Associates. Apparatus and process for reduction of hydrogen chloride. 3,453,187, 7-1-69, Cl. 204-69.
Slaton, Joyce M. Device for protection against inclement weather. 3,452,765, 7-1-69, Cl. 135-20.
Slator, Damon T.; and Burns, Albert L., Jr., to Bowen Tools, Inc. Seal valve assembly. 3,481,610, 12-2-69, Cl. 277-34.6
Slattery, Jack C.; and Hamermesh, Bernard, to TRW Inc. Micrometeoroid detector. 3,446,068, 5-27-69, Cl. 73-170.
Slattery, Robert E., to Menzimer, L. W. Door latch for automotive vehicles. 3,421,785, 1-14-69, Cl. 292-216.
Slaugh, James R., to Hamilton Watch Company. Timepiece. 3,431,721, 3-11-69, Cl. 58-127.
Slaugh, Lynn H.; and Mullineaux, Richard D., to Shell Oil Company. Hydroformylation of olefins. 3,448,157, 6-3-69, Cl. 260-604.
Slaugh, Lynn H.; and Mullineaux, Richard D., to Shell Oil Company. Hydroformylation of olefins. 3,448,158, 6-3-69, Cl. 260-604.
Slaugh, Lynn H.: *See—*
Kohnle, Josef F.; and Slaugh, Lynn H.,3,444,258.
Slaughter, Clarence S., to Lorch Industries, Inc. Debris collecting cast cutter. 3,481,036, 12-2-69, Cl. 30-124.
Slaughter, Gerald M.: *See—*
Fox, Charles W.; and Slaughter, Gerald M.,3,427,155.
Slaughter, John: *See—*
Berman, Merril; and Slaughter, John,3,434,430.
Slaughter, Robert L.: *See—*
Christensen, William N.,3,479,959.
Slaughter, William M. Liquid storage system. 3,444,883, 5-20-69, Cl. 137-207.
Slavik, William H., to Motorola, Inc. Television receiver. 3,426,242, 2-4-69, Cl. 315-27.
Slavin, Haim. Method of producing concrete panel assemblies. 3,436,892, 4-8-69, Cl. 52-747.
Slavin, Haim. Apparatus for casting concrete panels. 3,471,910, 10-14-69, Cl. 25-41.
Slavin, John J.; and Stanley, James P. Cumulative voting indicator. 3,443,750, 5-13-69, Cl. 235-78.

Slavin, Michael: *See*—
Carp, Ralph W.; Carruth, Winford B.; and Slavin, Michael,3,428,943.
Carp, Ralph W.; Howard, William E.; Slavin, Michael; and Ang, Leoncio T.,3,455,411.
Slavin, Michael, to Bendix Corporation, The. Floatless electrical fluid level gauge. 3,465,588, 9-9-69, Cl. 73-304.
Slavin, Michael; Carp, Ralph Wolf; Howard, William Edward; and Ang, Leoncio T., to Bendix Corporation, The. Automobile speed control. 3,485,316, 12-23-69, Cl. 180-105.
Slavin, Michael; Emery, Raymen F.; and Carp, Ralph W., to Bendix Corporation, The. Integrated vacuum modulator and actuator. 3,477,346, 11-11-69, Cl. 91-361.
Slavin, Peter Edmond, to Intelligent Instruments Inc. X-ray helical scanning means for displaying an image of an object within the body being scanned. 3,432,657, 3-11-69, Cl. 250-53.
Slavin, Peter E., to Intelligent Instruments, Inc. Multilayer integrated circuit structure. 3,486,085, 12-23-69, Cl. 317-235.
Slavov, Ivan Atanassov; Daskalov, Kiril Dimitrov; Ganev, Petar Levtchev; Mandjakov, Stefan Petrov; and Barzakov, Petko Ivanov, to Mashinno-Elecktiotechnitcheski Institut. Tensiometric apparatus for direct determination of the magnitudes and directions of principal stresses. 3,435,669, 4-1-69, Cl. 73-88.5
Slavsky, Robert J., to Shaw & Slavsky, Inc. Price tags. 3,419,977, 1-7-69, Cl. 40-5.
Slavsky, Robert J., to Saw & Slavsky, Inc. Signboard for peg letters. 3,483,647, 12-16-69, Cl. 40-143.
Slawinski, Frank E.; and Whetstone, Herbert H., to Atlas Chemical Industries, Inc. Axially expandable and contractable container. 3,420,173, 1-7-69, Cl. 102-24.
Slawinski, Frank, to Atlas Chemical Industries, Inc. Self-adjusting detachable fuse clip for cartridges. 3,455,242, 7-15-69, Cl. 102-27.
Slay, Eugene P., to Slay Transportation Company, Incorporated. Means for transferring bulk substances from one container to another. 3,428,098, 2-18-69, Cl. 141-67.
Slay Transportation Company, Incorporated: *See*—
Slay, Eugene P., 3,428,098.
Slaybaugh, Lyle, to Kellogg Company. Method and means for making a composite food product. 3,480,445, 11-25-69, Cl. 99-83.
Slaymaker, Frank H., to General Dynamics Corporation. Electro-optical signal processing systems. 3,482,101, 12-2-69, Cl. 250-199.
Slayman, Mitchell J. Containers with interfitted cleats. 3,481,502, 12-2-69, Cl. 217-42.
Slayton, Ransom D., to Teletype Corporation. Sequence detector. 3,439,335, 4-15-69, Cl. 340-146.2
Sledz, Edward F., to Superior Concrete Accessories, Inc. Concrete wall form panel attachment for the production of a decorative wall surface effect. 3,464,667, 9-2-69, Cl. 249-190.
Sleeper, Donald W., to Addressograph-Multigraph Corporation. Roll sheeter for printing machine. 3,482,477, 12-9-69, Cl. 83-94.
Sleeter, Edward B., to Marathon Electric Manufacturing Corporation. Pump. 3,457,870, 7-29-69, Cl. 103-111.
Sleight, George R., to Elliott Brothers (London) Limited. Takeoff director systems for aircraft. 3,455,160, 7-15-69, Cl. 73-178.
Sleight, George R.; and Whitehouse, Michael I., to Elliott Brothers (London) Limited. Take-off director systems for aircraft. 3,435,674, 4-1-69, Cl. 73-178.
Sleighter, George E.: *See*—
MacKenzie, John Douglas; and Sleighter, George E.,3,485,645.
Slemmons, Arthur J., to FMC Corporation. Vehicle propulsion system. 3,452,702, 7-1-69, Cl. 115-1.
Slemmons, Charles O., to De Long Corporation. Two-piece releasable gripper. 3,422,505, 1-21-69, Cl. 24-263.
Slemmons, John Whittier. Numerical storage and computing device. 3,435,543, 4-1-69, Cl. 35-61.
Slenker, Stephen A., to Piconics Incorporated. Encapsulated electrical component and method for making the same. 3,474,531, 10-28-69, Cl. 29-628.
Slepitis, Justin F., to Curtiss-Wright Corporation. Method of fabricating and heat-treating precipitation-hardenable nickel-base alloys. 3,420,716, 1-7-69, Cl. 148-11.5
Sletten, Andreas M.: *See*—
Church, Charles H.; and Sletten, Andreas M.,3,474,287.
Sletzinger, Meyer: *See*—
Carey, Daniel J.; Gal, George; Sletzinger, Meyer; and Reinhold, Donald F.,3,471,514.
Chemerda, John M.; Sletzinger, Meyer; and Bollinger, Frederick W.,3,462,536.
Chemerda, John Martin; and Sletzinger, Meyer,3,449,364.
Chemerda, John Martin; and Sletzinger, Meyer,3,454,594.
Chemerda, John Martin; and Sletzinger, Meyer,3,457,275.
Chemerda, John Martin; and Sletzinger, Meyer,3,457,276.
Chemerda, John Martin; and Sletzinger, Meyer,3,467,669.
Firestone, Raymond A.; Reinhold, Donald F.; and Sletzinger, Meyer,3,466,315.
Gaines, Walter A.; Reinhold, Donald F.; and Sletzinger, Meyer,3,483,220.
Gal, George; and Sletzinger, Meyer,3,454,593.
Gal, George; and Sletzinger, Meyer,3,470,203.
Glamkowski, Edward J.; and Sletzinger, Meyer,3,435,075.
Sletzinger, Meyer, to Merck & Co., Inc.α-Methyl-β-(3,4-disubstitutedphenyl) propionitriles. 3,442,909, 5-6-69, Cl. 260-340.5
Sletzinger, Meyer; and Hoff, Dale R., to Merck & Co., Inc. Certain 2-thiazolylbenzimidazole-1-oxy derivatives. 3,429,890, 2-25-69, Cl. 260-302.
Reinhold, Donald F.; Gaines, Walter A.; and Sletzinger, Meyer,3,480,670.
Sleven, Marvin; Kleiman, Joseph; and Hobel, Daniel, to Whittaker Corporation. Recording method and apparatus. 3,479,648, 11-18-69, Cl. 340-172.5
Slevin, Dennis P. Two-piece thrust plate for rotary pumps and motors. 3,427,984, 2-18-69, Cl. 103-126.
Slevin, Julian B., Co., Incorporated: *See*—
Ackley, Edward M., 3,429,235.
Slewing, Merle R., 1/2 to Hodgson, R. W. Container for a dispensable material having an auxiliary recess extending thereinto. 3,426,769, 2-11-69, Cl. 132-80.
Slezak, Josef: *See*—
Culik, Karel; Herold, Milos; Palkoska, Josef; Sikyta, Bohumil; and Slezak, Josef,3,429,781.
Vondracek, Miloslav; Slezak, Josef; Herold, Milos; and Culik, Karel,3,425,911.
Sleziona, Joseph-Joachim: *See*—
Demarcq, Michel Charles; and Sleziona, Joseph-Joachim,3,453,348.
Slica Corporation: *See*—
Athanas, Christo P., 3,440,887.
Slick Corporation: *See*—
Ballard, Wade E., 3,451,197.
Slick Electro, Inc.: *See*—
Slick, Fred S., 3,447,239.
Slick, Fred S., to Slick Electro, Inc. Preloading means for magneto bearings. 3,447,239, 6-3-69, Cl. 29-596.
Sliepcevich, Cedomir M.; and Sheng, Henry P., to University Engineers, Inc. Method and apparatus for separating a liquid mixture. 3,471,018, 10-7-69, Cl. 210-84.
Sliepenbeek, Antonius H. Th. J., to Smit Nijmegen Electrotechnische Fabrieken N.V. Laminated magnetic core structures for transformers or choke coils of great power. 3,428,930, 2-18-69, Cl. 336-212.
Sliepenbeek, Antonius H. Th. J., to Smit Nijmegen Electrotechnische Fabrieken N.V. Laminated magnetic core structures for transformers or choke coils of great power. 3,428,931, 2-18-69, Cl. 336-212.
Sliepenbeek, Antonius H. Th. J., to Smit Nimegen Electrotechnische Fabrieken N.V. Laminated magnetic core structures for transformers or choke coils of great power. 3,453,576, 7-1-69, Cl. 336-212.
Sliman, Michael T. Alarm system for preventing the theft of valuable articles. 3,439,359, 4-15-69, Cl. 340-280.
Sliman, Michael T. Sensing resistance device. 3,440,636, 4-22-69, Cl. 340-280.
Slimovitz, Morris L. Combined barbecue apron and mittens. 3,428,962, 2-25-69, Cl. 2-48.
Slimovitz, Morris L. Pot holder with vacuum cup handle. 3,445,861, 5-27-69, Cl. 2-20.
Slimowicz, Chester E., to GAF Corporation. Two component diazo sensitizing compositions containing a xanthine compound. 3,480,437, 11-25-69, Cl. 96-91.
Slingerland, Henry H., Jr. Quick connect pedal connector. 3,426,640, 2-11-69, Cl. 84-422.
Slingerland, Lyle Robert: *See*—
Layfield, James David; and Slingerland, Lyle Robert,3,481,114.
Slingsby, Thomas W.: *See*—
Ray, Ford P.; and Slingsby, Thomas W.,3,477,356.
Sliosberg, Jacques: *See*—
Stark, Virgil; and Sliosberg, Jacques,3,437,098.
Slipp, Kenneth W. Boat trailers. 3,472,406, 10-14-69, Cl. 214-505.
Slivinsky, Cornell J.; and Steed, Stanley, to Parsons Corporation. Method of forming a composite spar about a metal tube. 3,476,625, 11-4-69, Cl. 156-86.
Slivka, William R.: *See*—
Babington, Robert S.; Yetman, Albert A.; and Slivka, William R.,3,421,692.
Babington, Robert S.; Yetman, Albert A.; and Slivka, William R.,3,421,699.
Babington, Robert S.; Yetman, Albert A.; and Slivka, William R.,3,425,059.
Sliwka, Wolfgang; and Gellrich, Manfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polymer dispersions. 3,470,125, 9-30-69, Cl. 260-29.6
Sloan, Alexander D. B., to Shell Oil Company. Ethylene sulfide preparation. 3,467,671, 9-16-69, Cl. 260-327.
Sloan, Cephas H.; and Sublett, Bobby J., to Eastman Kodak Company. Tobacco smoke filter having a coated carbon additive. 3,426,763, 2-11-69, Cl. 131-266.
Sloan, Cephas H.: *See*—
Sublett, Bobby J.; and Sloan, Cephas H.,3,428,055.
Sublett, Bobby Jones; and Sloan, Cephas H.,3,428,056.
Sloan, Charles S. Indicator light and light housing for printed- circuit boards. 3,435,449, 3-25-69, Cl. 340-381.

Sloan, Charles S. Two-terminal indicator light having spring-biased terminals. 3,440,647, 4-22-69, Cl. 340-381.
Sloan, Charles T., to Whitnon Manufacturing Company, The. Centrifugal chuck. 3,467,404, 9-16-69, Cl. 279-66.
Sloan, Donald D., to Dennison Manufacturing Company. Record copier. 3,427,106, 2-11-69, Cl. 355-3.
Sloan, Donald D., to Dennison Manufacturing Company. Apparatus for forming sheets from a strip of material. 3,445,047, 5-20-69, Cl. 225-100.
Sloan, Donald D., to Dennison Manufacturing Company. Apparatus for developing electrostatic images. 3,469,563, 9-30-69, Cl. 118-325.
Sloan, Donald D., to Dennison Manufacturing Company. Photographic copying apparatus. 3,469,916, 9-30-69, Cl. 355-51.
Sloan, Donald D., to Dennison Manufacturing Company. Container for roll of sheet material. 3,472,364, 10-14-69, Cl. 206-52.
Sloan, Donald D.; and Polley, Robert W., to Dennison Manufacturing Company. Record copier. 3,450,474, 6-17-69, Cl. 355-27.
Sloan, Harold J. Electric oven type egg cooker. 3,487,198, 12-30-69, Cl. 219-397.
Sloan, Norman R.: *See—*
Torrey, Sumner H.; Dubuque, Donald J.; Sloan, Norman R.; and Morris, Robert L.,3,469,568.
Torrey, Sumner H.; Dubuque, Donald J.; Weiss, Johnny C.; and Sloan, Norman R.,3,480,000.
Sloan, Robert J., to Minnesota Mining and Manufacturing Company. Color-coated roofing granules. 3,479,201, 11-18-69, Cl. 117-27.
Sloan, Roy R., to Fox Industries, Inc. Top stripper guides. 3,461,706, 8-19-69, Cl. 72-250.
Sloan, Thomas F.: *See—*
Kauffman, Harry G.; Sloan, Thomas F.; and Angle, Henry W.,3,482,699.
Sloan Valve Company: *See—*
Billeter, Henry R., 3,435,923.
Billeter, Henry R., 3,442,165.
Billeter, Henry R., 3,454,140.
Sloan, Walter John. Process for obtaining equilibrium controlled amounts of halogen and/or interhalogen in a fluid medium. 3,425,790, 2-4-69, Cl. 21-2.
Sloan, William G.; Moore, Harry B.; Cooper, Albert S., Jr.; and Reeves, Wilson A., to United States of America, Agriculture. Concomitantly cross-linking and imparting stretch characteristics to a cellulosic fabric. 3,480,382, 11-25-69, Cl. 8-120.
Sloane, George E.; and Onna, Kenneth M., to Hawaiian Sugar Planters Association. Apparatus for the continuous analysis of a liquid stream containing dissolved solids of which a portion are optically active in solution. 3,468,607, 9-23-69, Cl. 356-73.
Sloane, Howard Jules, to Beckman Instruments, Inc. Optical filtering devices including polyvinyl chloride microporous matrix. 3,471,212, 10-7-69, Cl. 350-1.
Sloane, Nathan H., to Century Laboratories, Inc. Method of production of urokinase. 3,477,910, 11-11-69, Cl. 195-66.
Sloane, Nathan H., to Century Laboratories, Inc. Method of production of urokinase. 3,477,911, 11-11-69, Cl. 195-66.
Sloane, Nathan H., to Century Laboratories, Inc. Method of production of urokinase. 3,477,912, 11-11-69, Cl. 195-66.
Sloane, Nathan H., to Century Laboratories, Inc. Method of production of urokinase. 3,477,913, 11-11-69, Cl. 195-66.
Slob, Arie: *See—*
Bongenaar, Willem; Gieles, Joannes Paulus Maria; and Slob, Arie,3,433,978.
Slobbe, Walter Wentworth: *See—*
Magill, Malcolm E.; and Slobbe, Walter Wentworth,3,473,942.
Glovatsky, Andrew; Shinal, Joseph B.; and Slobbe, Walter W.,3,440,081.
Slock, Harry W.; and Touher, Paul B., to General Foods Corporation. Dry soup mix. 3,433,650, 3-18-69, Cl. 99-124.
Slocombe, Robert J., to Monsanto Company. Isocyanate cured terpolymers and processes for making same. 3,451,952, 6-24-69, Cl. 260-2.5
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R., to Monsanto Company. Styrene/dialkyl fumarate process using a solubility modifier. 3,429,858, 2-25-69, Cl. 260-78.5
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R., to Monsanto Company. Styrene/dialkyl fumarate process. 3,449,300, 6-10-69, Cl. 260-78.5
Slocum, George J.: *See—*
Baker, Charles E.; Martel, Bob E.; and Slocum, George J.,3,471,641.
Slominski, Leo J.: *See—*
Grunwald, John J.; and Slominski, Leo J.,3,460,938.
Slominski, Leo J., to MacDermid Incorporated. Solution and method for dissolving copper. 3,466,208, 9-9-69, Cl. 156-18.
Slone, Thomas J., to American Instrument Co., Inc. Automatic analytical system. 3,481,709, 12-2-69, Cl. 23-253.
Slonneger, Bruce K., to Texas Instruments, Incorporated. Electric winding protective means. 3,445,799, 5-20-69, Cl. 337-380.
Slonneger, John L.: *See—*
Rechou, Jacques C.; and Slonneger, John L.,3,466,587.
Sloop, Clifford E. Meter box locking assembly. 3,440,330, 4-22-69, Cl. 174-52.
Sloop, James L.: *See—*
Loxley, Thomas E.; Sloop, James L.; and Wieland, Michael S.,3,447,077.
Slot, Willem: *See—*
Dingemans, Simon; and Slot, Willem,3,429,686.
Slotkowski, Kenneth G., to Ritter Pfaudler Corporation. Constant speed compensated electronic control circuit. 3,437,901, 4-8-69, Cl. 318-332.
Slotkowski, Kenneth G., to Ritter Pfaudler Corporation. Temperature control apparatus. 3,449,550, 6-10-69, Cl. 219-502.
Slott, Robert S.; Bell, Edward R.; and Pilgram, Kurt H. G., to Shell Oil Company. Herbicidal benzothiadiazoles and oxygen and selenium analogues. 3,478,044, 11-11-69, Cl. 260-298.
Slover, James W., to Phillips Petroleum Company. Lined pit having wind resistant liner therein and method. 3,461,673, 8-19-69, Cl. 61-1.
Slover, Vasel R., Jr.: *See—*
Strubhar, Malcolm K.; and Slover, Vasel R., Jr.,3,478,584.
Slovic, Matthew John. Grading apparatus. 3,425,553, 2-4-69, Cl. 209-315.
Slovinsky, Manuel, to Celanese Corporation. Oxymethylene polymers containing units derived from chlorinated aromatic glycols and aldehydes. 3,442,863, 5-6-69, Cl. 260-67.
Sloyan, Jerome J. Hinged support for motors and other machinery. 3,477,670, 11-11-69, Cl. 248-23.
Sluijters, Robert, to American Enka Corporation. Spinneret assembly for spinning highly viscous polymeric substances. 3,439,382, 4-22-69, Cl. 18-8.
Slumberland Group Limited: *See—*
Docker, Leslie Thomas, 3,454,054.
Docker, Leslie Thomas, 3,462,774.
Slusar, Richard J.: *See—*
Pryor, Michael J.; and Slusar, Richard J.,3,486,947.
Slusarski, John F.; and Konkel, John A., to RCA Corporation. Continuous video peaking control circuit. 3,461,234, 8-12-69, Cl. 178-7.5
Slusher, Richart E.: *See—*
Fleury, Paul; Patel, Chandra K. N.; Slusher, Richart E.; and Yafet, Yako,3,470,453.
Patel, Chandra K. N.; and Slusher, Richart E.,3,467,917.
Slusser, Eugene A., to Aerotronic Associates Inc. Method of indicating distance and position of an aircraft relative to VOR. 3,452,351, 6-24-69, Cl. 343-6.
Slusser, Marion L.; and Bramhall, William E., to Mobil Oil Corporation. Thermal conversion of oil shale into recoverable hydrocarbons. 3,468,376, 9-23-69, Cl. 166-272.
Sluter, Simon J.: *See—*
Scarabello, Bruno U.; Perez, Emilio A.; Welty, Lloyd G.; and Sluter, Simon J.,3,428,054.
Slutsky, Simon; and Tomboulian, Roger A., to General Applied Science Laboratories, Inc. Sonic boom pressure wave simulation method and apparatus. 3,442,115, 5-6-69, Cl. 73-12.
Sly, James Christopher Phillips: *See—*
Jones, Barry David; and Sly, James Christopher Phillips,3,455,990.
Sly, W. W., Manufacturing Co., The: *See—*
Jones, Allen H.; and Reed, Edward F., 3,453,810.
Slyker, John V., to Calgon Corporation. Squeeze treatment of producing oil wells. 3,483,925, 12-16-69, Cl. 166-279.
Slykhouse, Thomas E.; Werth, Kenneth E.; and Volk, Henry, to Dow Chemical Company, The. Gelled slurry explosive composition containing a terpolymer gelling agent. 3,446,681, 5-27-69, Cl. 149-41.
Slykhouse, Thomas E.: *See—*
Grant, Charles H.; and Slykhouse, Thomas E.,3,462,324.
Thomison, William C.; and Slykhouse, Thomas E.,3,456,589.
S&M Company: *See—*
Sponske, Argyl D.; Mayhew, Jean A.; and Mayhew, Violet M., 3,422,961.
Smadja, Jean Claude, to Compagnie Financiere et Commerciale. Self fastening recess unit for window assembly. 3,479,768, 11-25-69, Cl. 49-441.
Smai, Franco; and Salvemini, Antonio, to Montecatini Edison S.p.A.Process for preparing BR_3-type organoboron compounds. 3,475,496, 10-28-69, Cl. 260-606.5
Smai, Franco: *See—*
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine,3,436,194.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine,3,458,280.
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine,3,458,292.
Saccardo, Pietro; and Smai, Franco,3,433,591.
Smale, Charles H., to General Motors Corporation. Jet deflecting nozzle. 3,442,455, 5-6-69, Cl. 239-265.39
Small, Augustus B.; Jaruzelski, John J.; and Lenas, Leandros P., to Esso Research and Engineering Company. Polymerizable compositions and process of producing same. 3,474,066, 10-21-69, Cl. 260-40.
Small, Augustus B.: *See—*
Gorman, Paul T.; and Small, Augustus B.,3,457,622.

Small Business Administration: *See—*
Rutledge, Seth E., 3,468,359.
Sarapuu, Erich, 3,460,766.
Small, Donald I., to Longview Fibre Company. Packing carton for revolvers and the like. 3,441,125, 4-29-69, Cl. 206-45.14
Small, Edward A., Jr.: *See—*
Berning, Peter H.; and Small, Edward A., Jr.,3,487,024.
Small, Francis H.: *See—*
Richardson, Norman T.; and Small, Francis H.,3,455,978.
Small, Fred, to Gullick Limited. Mineral mining arrangement including track for a mining machine. 3,471,201, 10-7-69, Cl. 299-31.
Small, Guy W. Packaging machine for slat-like articles. 3,477,201, 11-11-69, Cl. 53-161.
Small, Martin H., to Ipco Hospital Supply Corporation. Container for bedside thermometer. 3,482,677, 12-9-69, Cl. 206-16.6
Small, Richard B., to Texas Instruments, Incorporated. Method of attaching long leads to terminal pins of semiconductor modules. 3,456,339, 7-22-69, Cl. 29-628.
Small, Robert W. Method of assembling toy or model vehicle and the so assembled vehicle. 3,464,153, 9-2-69, Cl. 46-223.
Small, Samuel N., to Cohen, Alfred G., and Weiss, Paul. Drive device incorporating a toothless rack. 3,436,972, 4-8-69, Cl. 74-89.
Small, Sollie W.: *See—*
Herman, David; and Small, Sollie W.,3,478,238.
Small, William A.; and Ginther, Fred J., to Mallinckrodt Chemical Works. Mobile adjustable sprayer. 3,423,027, 1-21-69, Cl. 239-287.
Smalley, Bion L., to Intercontinental Dynamics Corporation. Solid state electronic timer delay switch with variable time delay. 3,473,107, 10-14-69, Cl. 323-22.
Smalley, Janet H., to Armstrong Cork Company. Synthesis of cyclic phosphonitriles. 3,428,676, 2-18-69, Cl. 260-543.
Smalley, John F., to British Lighting Industries Limited. Electrode for a high-pressure discharge lamp. 3,463,958, 8-26-69, Cl. 313-211.
Smalley, Ned J., to Owens-Illinois, Inc. Unitary cam-off closure. 3,468,447, 9-23-69, Cl. 215-41.
Smallwood, Billy G., to Hercules Incorporated. Combustible primer for caseless ammunition. 3,486,453, 12-30-69, Cl. 102-86.5
Smart, Charles L.: *See—*
Conciatori, Anthony B.; and Smart, Charles L.,3,484,416.
Smart, Charles L., to Celanese Corporation. Cellulose ester shaped articles of improved dyeability. 3,454,349, 7-8-69, Cl. 8-4.
Smart, Desmond, to International Research & Development Company Limited. Instrument for the medical treatment of human and animal tissue using lasers. 3,456,651, 7-22-69, Cl. 128-303.1
Smart Jay A., to Won-Door Corporation, The. Air release construction for folding door. 3,447,584, 6-3-69, Cl. 160-84.
Smart, Jay A., to Won-Door Corporation, The. Insulated door construction. 3,481,388, 12-2-69, Cl. 160-231.
Smart, Kenneth J.; and Thomson, Peter J., to International Standard Electric Corporation. Digital counter controlled automatic gain regulator employing pilot signal. 3,470,480, 9-30-69, Cl. 325-400.
Smart, Sidney K.: *See—*
Stamm, Russell D.; and Smart, Sidney K.,3,463,017.
Smathers, John E.: *See—*
Lowry, Terrell N.; and Smathers, John E.,3,456,241.
Smedlund, Egon Gunnar. Supporting and moving device for refuse sacks. 3,431,704, 3-11-69, Cl. 53-384.
Smeelen, Theodorus Johannes Henricus: *See—*
Hinssen, Andreas Petrus Paulus; and Smeelen, Theodorus Johannes Henricus,3,457,449.
Smeeth, Edmund L. V., to Elliotts of Peterborough Limited. Prefabricated buildings and their assembly. 3,474,580, 10-28-69, Cl. 52-127.
Smeets, Gerard Gaston Frans. Punch and die holder. 3,477,329, 11-11-69, Cl. 83-685.
Smeets, Gerard Gaston Fras. Slotted locking ferrule. 3,431,623, 3-11-69, Cl. 29-240.
Smeets, Hubertus H.: *See—*
Kardaun, Georg; and Smeets, Hubertus H.,3,479,251.
Smeltz, Kenneth C., to Du Pont de Nemours, E. I., and Company. Catalysts for preparing carbodiimides. 3,426,025, 2-4-69, Cl. 260-288.
Smeltz, Kenneth C., to Du Pont de Nemours, E. I., and Company. Process for recovering tetramethyl lead and azeotropes formed therein. 3,442,768, 5-6-69, Cl. 203-6.
Smeltz, Kenneth C., to Du Pont de Nemours, E. I., and Company. Fluorinated alcohols. 3,478,116, 11-11-69, Cl. 260-633.
Smeltz, Kenneth Cleon: *See—*
Schuler, Mathias John; and Smeltz, Kenneth Cleon,3,432,409.
Smeltzer, Lester Vernon: *See—*
Smeltzer, Russell W.; and Smeltzer, Lester Vernon,3,454,067.
Smeltzer, Russell W.; and Smeltzer, Lester Vernon. Cherry stemming machine and method. 3,454,067, 7-8-69, Cl. 146-224.
Smelyansky, Matvei Yakovlevich: *See—*
Gutterman, Kirill Davidovich; Prozorova, Nina Dmitrievna; Svenchansky, Alexandr Danilovich; and Smelyansky, Matvei Yakovlevich,3,473,105.
Smerd, Hans Otto; and Bonner, Peter Joseph, to Parsons Chain Co., Limited. Welding machines. 3,442,075, 5-6-69, Cl. 59-29.
Smerd, Johann Hans Otto; and Gedny, Patrick, to Parsons Chain Company Limited. Method of assembly utilizing a composite solid connector. 3,484,927, 12-23-69, Cl. 29-470.7
Smessaert, Raymond R., to Teletype Corporation. Telegraph selector. 3,440,344, 4-22-69, Cl. 178-17.5
Smetana, Otto; and Hafner, Leo, to Treibacher Chemische Werke Aktiengesellschaft. Process for separating europium from other rare earths. 3,486,843, 12-30-69, Cl. 23-22.
Smetana, Richard D., to Texaco Inc. Nitration of hydrocarbons in the presence of perfluoroalkane or perfluorochloroalkane. 3,445,529, 5-20-69, Cl. 260-644.
Smeulers, Wouter; and Janssen, Peter Johannes Hubertus, to North American Philips Company, Inc. Deflection circuit with frequency dependent negative feedback. 3,434,004, 3-18-69, Cl. 315-27.
Smeulers, Wouter; and Van Hattum, Johannes Simon Albert, to North American Philips Company, Inc. Circuit arrangement for producing a sawtooth current across the vertical deflection coil of a television receiver. 3,426,243, 2-4-69, Cl. 315-27.
Smeykal, Karl; Pallutz, Heinrich; Hahner, Eberhard; Becker, Karl; and Stoss, Werner, to VEB Leuna-Werke Walter Ulbricht. Production of propionitrile. 3,453,314, 7-1-69, Cl. 260-465.1
Smialowski, Antoni J.: *See—*
Blachut, Theodore J.; and Smialowski, Antoni J.,3,465,444.
Blachut, Theodore J.; Schut, Gerhardus H.; and Smialowski, Antoni J.,3,486,820.
Smico Inc.: *See—*
Mock, Walton L.; and Taylor, Willie, 3,422,955.
Wyatt, Luther E., 3,434,555.
Smidth, F. L., & Co.: *See—*
Elkjaer, Hans P., 3,473,794.
Fog, Mogens H., 3,475,013.
Hastrup, Niels E., 3,462,018.
Kartman, Helge Carl Christian, 3,459,380.
Moller, Niels Kann, 3,450,438.
Smieja, Alois Joseph. Hydraulic lifting device with weight estimator. 3,456,749, 7-22-69, Cl. 177-146.
Smiens, Leon D.: *See—*
Egan, Richard R.; and Smiens, Leon D.,3,428,682.
Egan, Richard R.; and Smiens, Leon D.,3,456,013.
Smigelski, Charlotte J., & Smigelski, Felix P.: *See—*
Leo, Angelo, 3,421,633.
Smiley, Charles E.: *See—*
Meyers, William F.; and Smiley, Charles E.,3,470,029.
Smiley, George C.: *See—*
Van Horssen, Arden D.; Habig, Wydell W.; Shortell, Raymond E.; and Smiley, George C.,3,480,722.
Smiley, Karl L.; Cadmus, Martin C.; and Rogovin, Seymour Peter, to United States of America, Agriculture. Shortened fermentation process for obtaining D-mannitol. 3,427,224, 2-11-69, Cl. 195-35.
Smiley, Robert J.: *See—*
Niilo-Rama, Jaakko E.; and Smiley, Robert J.,3,455,895.
Smilg, Benjamin: *See—*
Isaacson, Max; and Smilg, Benjamin,3,425,409.
Smilgys, Bruno S., to Veeder Industries, Inc. Meter duplicator. 3,446,432, 5-27-69, Cl. 235-94.
Smillie, Winston B., 1/2 to Hamaishi, Hideo E. Nonionic detergent compositions. 3,472,783, 10-14-69, Cl. 252-89.
Smiltens, Oskar, to Talcott, James, Inc., mesne. Folding mechanism planetary gearing including elliptical pair for collect run. 3,486,748, 12-30-69, Cl. 270-77.
Smirl, Richard L., to Borg-Warner Corporation. Flow control valve assembly. 3,468,337, 9-23-69, Cl. 137-493.8
Smirnov, Pavel Alexandrovich: *See—*
Nastjukha, Alexandr Ivanovich; Koltypin, Evgeny Alexandrovich; and Smirnov, Pavel Alexandrovich,3,480,822.
Smirnow, Peter: *See—*
Benson, John O.; and Smirnow, Peter,3,477,851.
Smiryagin, Anatoly Grigorievich: *See—*
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich,3,443,836.
Smisko, Joe: *See—*
Conaway, William A.; Johnson, Arthur J.; and Smisko, Joe,3,421,843.
Smit, Hendrik, deceased (by Lambton Trust Co. Limited, executor); and Dunfield, Theodore Elmer, deceased. Oil extension of high solids latex. 3,434,994, 3-25-69, Cl. 260-29.7
Smit, Hendrikus Jan; Hollweg, Antonius J. F.; and Jonker, Jacobus Johannes, to American Enka Corporation. Bulked, balanced yarn and method for manufacture thereof. 3,485,030, 12-23-69, Cl. 57-140.
Smit, J. K. & Sons, Diamond Tools Limited: *See—*
Heyberger, Werner; and Braun, Eugene R., 3,433,331.
Smit Nijmegen Electrotechnische Fabrieken N.V.: *See—*
Sliepenbeek, Antonius H. Th. J., 3,428,930.
Sliepenbeek, Antonius H. Th. J., 3,428,931.

Smit Nimegen Electrotechnische Fabrieken N.V.: *See*—
Sliepenbeek, Antonius H. Th. J., 3,453,576.
Smit, Wilhelm Matthijs; and Arkenbout, Gerardus Johannes, to Nederlandse Centrale Organisatie voor Toegepast-Nat uurwetenschappelijk Onderzoek ten behoeve van Nijverheid, (Central Organization T.N.O.). Separation of lithium isotopes. 3,463,606, 8-26-69, Cl. 23-89.
Smith & Nephew Plastics Limited: *See*—
Duns, John, 3,442,736.
Smith, A. Dean: *See*—
Smith, Arthur Dean also known as; and Smith, A. Dean,3,426,567.
Smith, A. O., Corporation: *See*—
Chyle, John J., 3,437,787.
Ciotti, George A.; and Shade, Keith N., 3,436,528.
Deringer, Wayne A., 3,465,424.
Felt, Adolph E., 3,420,032.
Freese, Charles E.; and Emery, Robert D., 3,453,420.
Gerlach, Harold W., 3,475,583.
Hinrichs, John F., 3,430,029.
Hortvet, Douglas R.; and Bennett, Norman C., 3,424,092.
Houle, Tim H.; and Kopydlowski, Donald J., 3,484,020.
Houle, Timothy H., 3,420,987.
Isler, Eduard W., 3,458,838.
Jackman, Robert M., 3,434,745.
Kube, Leonard J., 3,440,082.
Marks, Lawrence P., 3,470,420.
Maynard, John T.; and Yu, Johnny Dah-Chun, 3,421,027.
Nelson, Forrest W., 3,484,266.
Rike, Howard W., 3,420,974.
Rike, Howard W., 3,452,607.
Rike, Howard W., 3,469,897.
Roskos, Thomas George; and Green, Bruce J., 3,429,760.
Schilberg, Robert A., 3,447,638.
Stoica, John T., 3,429,228.
Toni, Henry; and Zoeckler, Count Lee, 3,461,854.
Zelinski, Robert J.; and Irwin, Charles W., 3,458,739.
Smith, A. O., Harvestore Products, Inc.: *See*—
Yung, William H., 3,434,605.
Smith, A. O., Inland Inc.: *See*—
Oswald, Kenneth J., 3,484,321.
Smith, Addison M.; and Perle, Percy, to Allied Chemical Corporation. Rapidly soluble food colors. 3,447,933, 6-3-69, Cl. 99-148.
Smith, Addison Romaine, II, to Anaconda Aluminum Company. Method of making strip electrical coils. 3,456,337, 7-22-69, Cl. 29-605.
Smith, Alan Charles Brandon: *See*—
Bentley, Kenneth Walter; Hardy, Denis Geoffrey; and Smith, Alan Charles Brandon,3,464,994.
Smith, Albert B.: *See*—
Fessler, Theodore E.; Smith, Albert B.; and Vincent, John S.,3,421,056.
Smith, Albert E., to Technical Operations, Incorporated. Coherent optical joint. 3,454,330, 7-8-69, Cl. 350-287.
Smith, Albert H., to Automation Industries, Inc., mesne. Combustible gas detecting device. 3,476,517, 11-4-69, Cl. 23-255.
Smith, Albert R. Adjustable grip-measuring bowling ball. 3,425,133, 2-4-69, Cl. 33-174.
Smith, Albert R. Method of making an exposed aggregate panel. 3,469,000, 9-23-69, Cl. 264-255.
Smith, Aleene F. Modern math and reading teaching-aid-game. 3,425,139, 2-4-69, Cl. 35-31.
Smith, Alexander M., II, to Fiberwoven Corporation, The. Process for making a non woven fabric structure. 3,483,601, 12-16-69, Cl. 28-72.2
Smith, Alexander Steel: *See*—
Rollett, Anthony Victor; Smith, Alexander Steel; Cookson, Martin Alan; and Anderson, William,3,485,188.
Smith, Alfred T.: *See*—
Komberec, Harold L.; Kilcup, Dillon K.; and Smith, Alfred T.,3,472,181.
Smith, Allen E.: *See*—
Ames, Ronald B.; and Smith, Allen E.,3,462,259.
Covey, Rupert A.; Smith, Allen E.; and Hubbard, Winchester L.,3,463,859.
Smith, Allison L., to Owens-Illinois, Inc. Method of staining glass and glass staining compositions. 3,420,698, 1-7-69, Cl. 117-124.
Smith, Allison L., to Owens-Illinois, Inc. Method of staining glass and glass staining composition. 3,424,567, 1-28-69, Cl. 65-30.
Smith, Alonzo L. Fire arrester for a petroleum well. 3,463,227, 8-26-69, Cl. 166-90.
Smith, Andrew H.: *See*—
Smith, Theodore E.; and Smith, Andrew H.,3,462,170.
Smith, Ansel M.; and Smith, Roy K. Aerial projectile goal. 3,421,764, 1-14-69, Cl. 273-105.
Smith, Arnold R.: *See*—
Andersen, Johan R.; Smith, Arnold R.; and Williamson, Andrew H., Jr.,3,426,308.
Smith, Arthur Alfred: *See*—
Onifer, Michael John, Jr.; and Smith, Arthur Alfred,3,468,346.
Smith, Arthur Dean also known as; and Smith, A. Dean, to Kaiser Aluminum & Chemical Corporation. Roll bending device for a rolling mill. 3,426,567, 2-11-69, Cl. 72-240.
Smith, Arthur Dean: *See*—
Langewis, Cornelis; and Smith, Arthur Dean; also known as Smith, Dean A.,3,457,766.
Smith, Arthur Dean; and Langewis, Cornelis, to Kaiser Aluminum & Chemical Corporation. Pneumatic feeding device. 3,469,432, 9-30-69, Cl. 72-361.
Smith, Arthur J. Pneumatically operated power driver. 3,438,449, 4-15-69, Cl. 173-17.
Smith, Arthur M., to General American Transportation Corporation. Grain unloading apparatus. 3,486,643, 12-30-69, Cl. 214-17.
Smith, Ashley P.: *See*—
Paterson, James G. T.; Smith, Ashley P.; and Sams, James K.,3,461,800.
Smith, Aubrey H., to Eaton Yale & Towne, Inc. Press speed control system with flywheel and eddy current brake and clutch. 3,450,911, 6-17-69, Cl. 310-95.
Smith, Aubrey H.: *See*—
Jaeschke, Ralph L.; and Smith, Aubrey H.,3,450,910.
Truemper, John P.; and Smith, Aubrey H.,3,469,164.
Smith, Barry L.: *See*—
Schuller, James T.; Haeusser, Harry C.; and Smith, Barry L.,3,477,556.
Smith, Barton K.; Groff, Ralph W., Sr.; and Rodman, James B., Sr. Method of and apparatus for wrapping products. 3,478,487, 11-18-69, Cl. 53-66.
Smith, Benjamin T.; Ross, Julian P., Jr.; and Trexler, Joseph E., Jr., to Newport News Shipbuilding and Dry Dock Company. Adjustable ball valve apparatus. 3,429,553, 2-25-69, Cl. 251-161.
Smith, Billie L., to Essex Wire Corporation. Guy guard and clip. 3,428,742, 2-18-69, Cl. 174-136.
Smith, Blanchard D., Jr., to Westinghouse Air Brake Company. Motion control system for rapid transit vehicles. 3,457,403, 7-22-69, Cl. 246-187.
Smith, Bob H.: *See*—
Gagnon, William L.; Scalise, Dominic Theodore; and Smith, Bob H.,3,433,977.
Smith, Boyd H., to Thiokol Chemical Corporation. Dual punch assembly for consolidating delay and fuse combustible material. 3,464,311, 9-2-69, Cl. 86-1.
Smith, Brace C.: *See*—
Kennell, Joseph F.; and Smith, Brace C.,3,435,812.
Smith, Bruce N. Welded spoked wheel. 3,431,025, 3-4-69, Cl. 301-59.
Smith, Burns A., to United States of America, Agriculture. Process for removing starch from sorghum juices. 3,442,704, 5-6-69, Cl. 127-50.
Smith, Burns A., to United States of America, Agriculture. Process for removing starch from sweet sorghum juices. 3,464,856, 9-2-69, Cl. 127-50.
Smith, Calvin S., to Chevron Research Company. Co_2 and H_2S removal. 3,435,590, 4-1-69, Cl. 55-43.
Smith, Carl G.; and Nelson, Lloyd A., to Gerber Products Company. Modular shipping case. 3,447,733, 6-3-69, Cl. 229-37.
Smith, Carroll E. Game board with movable barrier means. 3,467,386, 9-16-69, Cl. 273-126.
Smith, Cecil L.: *See*—
Callihan, Clayton D.; Boudreaux, Joseph R.; and Smith, Cecil L.,3,448,100.
Smith, Charles Arthur, to Cossor, A. C., Limited. Couplings between waveguides and coaxial lines. 3,478,282, 11-11-69, Cl. 333-21.
Smith, Charles B.: *See*—
Shyne, James J.; Milewski, John V.; and Smith, Charles B.,3,421,862.
Smith, Charles C.; and Ely, Everett E., to Kaiser Aluminum & Chemical Corporation. Apparatus for adhesively bonding a metal plate to a refractory brick. 3,444,027, 5-13-69, Cl. 156-357.
Smith, Charles D.; and Samuels, Bertram J., to Allied Chemical Corporation. Distillation under vacuum with liquid protective seal. 3,442,766, 5-6-69, Cl. 202-197.
Smith, Charles E., to Xerox Corporation. Document marking device. 3,468,250, 9-23-69, Cl. 101-232.
Smith, Charles F.: *See*—
Gardner, John B.; Smith, Charles F.; and Harper, Billy G.,3,472,752.
Nolan, Thomas J., III; and Smith, Charles F.,3,467,192.
Smith, Charles J.; Jamieson, Hugh W.; and Douglas, David W. Illuminable game ball. 3,458,205, 7-29-69, Cl. 273-213.
Smith, Charles M.; and Wilson, Robert V., Jr. Hydroponics apparatus. 3,432,965, 3-18-69, Cl. 47-1.2
Smith, Charles Myron: *See*—
Seeley, Clarence Edward; and Smith, Charles Myron,3,479,193.
Smith, Charles W., to Bunker-Ramo Corporation, The. Micromodular electronic package utilizing cantilevered support leads. 3,437,883, 4-8-69, Cl. 317-101.
Smith, Charles W., to Bunker-Ramo Corporation, The. Test apparatus for determining resistance and overload capability of thin film resistors carried on a substrate. 3,458,807, 7-29-69, Cl. 324-73.

Smith, Charles W., to Bunker-Ramo Corporation, The. Method and apparatus for forming an electric bond between two metallic members. 3,477,119, 11-11-69, Cl. 29-497.
Smith, Charles W.; and Dix, Willard A., to Singer Company, The. Rug scrubbing machines with foaming devices. 3,425,081, 2-4-69, Cl. 15-50.
Smith, Charles W.; and Lachat, Remy J., to Singer Company, The. Rug scrubbing machines with foaming devices. 3,471,886, 10-14-69, Cl. 15-50.
Smith, Chester A., Jr.: *See—*
Nielsen, Howard A., Jr.; Bice, James W.; and Smith, Chester A., Jr.,3,473,386.
Smith, Chloey L.; and Bain, Jack M. Log grapple. 3,456,822, 7-22-69, Cl. 214-147.
Smith, Claibourne D., to Du Pont de Nemours, E. I., and Company. 1-Acylbicyclo[1.1.0]butanes, their homopolymers and their 1-acyl-3-halocyclobutane precursors, and their preparation. 3,485,798, 12-23-69, Cl. 260-63.
Smith, Clair C.: *See—*
Clayton, William J.; Miller, Robert J.; and Smith, Clair C.,3,466,212.
Smith, Clarence M., to Westinghouse Electric Corporation. Internal, integrally formed cord grip for electrical wiring devices. 3,437,980, 4-8-69, Cl. 339-103.
Smith, Clete M., to PPG Industries, Inc. Solvent cleaning process. 3,434,881, 3-25-69, Cl. 134-22.
Smith, Clifford E., to Phillips Petroleum Company. Modified charcoal-cyanide catalyst for acrylo- nitrile production. 3,487,028, 12-30-69, Cl. 252-438.
Smith, Cloyd D. Combined magnetizer and demagnetizer. 3,467,926, 9-16-69, Cl. 335-284.
Smith, Courtland N., Jr.; and Knight, Charles W., to Sherman Car Wash Equipment Company. Carwash process. 3,445,286, 5-20-69, Cl. 134-32.
Smith, Curtis W.; and Mason, Ronald F., to Shell Oil Company. Glycol production. 3,456,017, 7-15-69, Cl. 260-602.
Smith, Curtis W.; Schrauzer, Gerhard N.; Windgassen, Richard J.; and Koetitz, Kenneth F., to Shell Oil Company. Glycol production. 3,463,819, 8-26-69, Cl. 260-602.
Smith, Dale R., to York Production Engineering Co., Inc. Cigar overwrapping and banding machine. 3,452,516, 7-1-69, Cl. 53-378.
Smith, Dale R., to York Production Engineering Co., Inc. Feed means for cigar overwrapping and banding machine. 3,463,375, 8-26-69, Cl. 226-95.
Smith, Dale R., to York Production Engineering Co., Inc. Cigar wrapper tension machine. 3,463,413, 8-26-69, Cl. 242-75.43
Smith, Dan Vernon. Geometric design instrument. 3,468,032, 9-23-69, Cl. 33-30.
Smith, Daniel J.; Tarpley, William B., Jr.; and McKinney, Charles Dana, Jr., to Aeroprojects Incorporated. Cutting torch and method for achieving high temperature cutting. 3,447,879, 6-3-69, Cl. 431-4.
Smith, Daniel; and Cassel, Norman S., to Interchemical Corporation. Apparatus for flat plate powder gravure printing. 3,443,515, 5-13-69, Cl. 101-150.
Smith, Darrell E., to Hardy Scales Company. Platform scale and strain gauge load cell suspension mechanism therefor. 3,472,329, 10-14-69, Cl. 177-211.
Smith, David A.: *See—*
Banas, Henry C.; McReynolds, William W.; and Smith, David A.,3,465,991.
Smith, David H., to Bell Telephone Laboratories, Incorporated. Domain wall propagation delay line. 3,440,627, 4-22-69, Cl. 340-174.
Smith, David H.: *See—*
Olsen, Karl M.; Smith, David H.; Stockbridge, Christopher D. G.; and Tolman, Edward M.,3,425,043.
Sibilia, John T.; and Smith, David H.,3,447,141.
Smith, David M.: *See—*
Swift, Gilbert; Carpenter, Alton D.; and Smith, David M.,3,427,877.
Smith, David P., to Minnesota Mining and Manufacturing Company. Low-energy ion scattering apparatus and method for analyzing the surface of a solid. 3,480,774, 11-25-69, Cl. 250-49.5
Smith, David Roger: *See—*
Hawtin, Selwyn George; Smith, David Roger; and Field, Dennis Ronald,3,477,218.
Smith, David R.; and Peterson, Howard, to Staley, A. E., Manufacturing Company. Vinylidene chloride copolymerization in presence of preformed seed latex. 3,424,706, 1-28-69, Cl. 260-29.6
Smith, Delbert D., to Aqua Filter, Inc. Simultaneous filtering for removal of taste, odor and turbidity. 3,436,343, 4-1-69, Cl. 210-32.
Smith, Delford M.; and Eason, Ward, to Evergreen Helicopters, Inc. Material spreader device for helicopters. 3,463,398, 8-26-69, Cl. 239-171.
Smith, Delmont K.: *See—*
Petterson, De Witt R.; and Smith, Delmont K.,3,438,842.
Smith, Dexter E.; Broerman, Arthur B.; and Keeler, Robert M., to Phillips Petroleum Company. Dispersing gases into liquids. 3,450,800, 6-17-69, Cl. 260-93.7
Smith, Dexter E.; Keeler, Robert M.; and Guenther, Emmerich, to Phillips Petroleum Company. Polymerization process control and apparatus therefor. 3,476,729, 11-4-69, Cl. 260-93.7
Smith, Dexter William, to Lucas, Joseph (Industries) Limited. Method of manufacturing oxygen electrodes by sintering Ag and an Ag-Cd alloy. 3,451,810, 6-24-69, Cl. 75-214.
Smith, Dexter William, to Lucas, Joseph, (Industries) Limited. Method of manufacturing a catalytic oxygen electrode for alkaline fuel cells. 3,460,994, 8-12-69, Cl. 136-120.
Smith, Don E., to HRB-Singer, Inc. Instrument for measuring the range and approximate size of buried or hidden metal objects. 3,471,772, 10-7-69, Cl. 324-3.
Smith, Donald Arthur, to Eastman Kodak Company. Polymerizable acrylic acid esters containing active methylene groups. 3,459,790, 8-5-69, Cl. 260-483.
Smith, Donald E.: *See—*
Sebers, Ralph A.; and Smith, Donald E.,3,452,635.
Smith, Donald F.; Furyear, David B.; and Smith, Donald W., to Bendix Corporation, The. Control means for hydrostatic transmissions. 3,434,427, 3-25-69, Cl. 103-38.
Smith, Donald F.; Russell, James; and Deretchin, David R., to St. Regis Paper Company. Nylon-coated paper and process for producing same. 3,454,419, 7-8-69, Cl. 117-76.
Smith, Donald G. Method and apparatus for making dental restorations. 3,482,312, 12-9-69, Cl. 32-19.
Smith, Donald J., to Smith-Schreyer & Assoc., Inc. Electrical terminals. 3,440,595, 4-22-69, Cl. 339-198.
Smith, Donald J., to Du Pont de Nemours, E. I., and Company. Acid-reacting ceramic grade antase Ti O_2 pigment. 3,459,576, 8-5-69, Cl. 106-300.
Smith, Donald Lee: *See—*
Laudig, Ronald Clair; and Smith, Donald Lee,3,441,659.
Stark, Frank Benjamin; and Smith, Donald Lee,3,441,658.
Smith, Donald O., to Massachusetts Institute of Technology. Thin film high frequency light modulator using transverse magneto-optical effect. 3,427,092, 2-11-69, Cl. 350-151.
Smith, Donald O., to Massachusetts Institute of Technology. Magneto-optical light switch enhanced by optical impedance matching dielectric overlayers. 3,451,740, 6-24-69, Cl. 350-151.
Smith, Donald P.: *See—*
Kinney, David J.; Fagg, Jack R.; and Smith, Donald P.,3,452,689.
Smith, Donald W.: *See—*
Farnham, Robert E.; Smith, Donald W.; and Barber, Harry A.,3,458,177.
Lewis, Richard L.; and Smith, Donald W.,3,462,201.
Lewis, Richard L.; and Smith, Donald W.,3,479,095.
Lewis, Richard L.; Van Anrooy, John A.; and Smith, Donald W.,3,462,200.
Smith, Donald F.; Furyear, David B.; and Smith, Donald W.,3,434,427.
Smith, Donald W.; and Reznicek, Raymond A., to Bendix Corporation, The. Pressure hold-off valve. 3,473,849, 10-21-69, Cl. 303-6.
Smith, Douglas W., to V-M Corporation. Phonograph turntable drive system. 3,485,498, 12-23-69, Cl. 274-9.
Smith, Dresden G.; and Jones, Phillip T., to Jonesmith Company, Inc. Piston and connecting rod structure for air compressors. 3,465,952, 9-9-69, Cl. 230-190.
Smith, Drexel Kermit: *See—*
Carpenter, John Mc Murray, III; and Smith, Drexel Kermit,3,480,706.
Smith, Drexel K., to Du Pont de Nemours, E. I., and Company. Flow inversion apparatus and process. 3,470,914, 10-7-69, Cl. 138-39.
Smith, Dudley C.: *See—*
Roden, Richard L.; Smith, Dudley C.; and Kessler, Lowell,3,484,807.
Smith, E. Quimby, Jr., to United States of America, Navy. Combined rocket-ramjet aircraft. 3,430,445, 3-4-69, Cl. 60-245.
Smith, Earl Dallas: *See—*
Oldham, Dale R., 3,448,473.
Smith, Earl Dallas. Automatic car washing apparatus. 3,443,270, 5-13-69, Cl. 15-21.
Smith, Edgar H.: *See—*
Gehman, Roland P.; Martin, Eugene G.; and Smith, Edgar H.,3,453,678.
Smith, Edgar J.; and Barnes, Lell E., to General Precision Systems Inc. Indicator error correction apparatus. 3,434,132, 3-18-69, Cl. 340-198.
Smith, Edith F. M. Cushioned bedpan cover. 3,462,770, 8-26-69, Cl. 4-113.
Smith, Edward A.: *See—*
Wrotnowski, Arthur C.; and Smith, Edward A.,3,464,561.
Smith, Edward Howard: *See—*
Farbridge, Joseph Edward; Whittley, Donald Charles; and Smith, Edward Howard,3,442,470.

Smith, Edward M., to Gorman-Rupp Company, The, mesne. Thermostatically controlled electric blood heating apparatus. 3,443,060, 5n6-69, Cl. 219-302.
Smith, Edward M., to Bigge Drayage Company. Pneumatically powered remote controlled mirror with controllable limit stop. 3,480,355, 11-25-69, Cl. 350-289.
Smith, Edward W. Twist drill drive. 3,429,204, 2-25-69, Cl. 77-5.
Smith, Eldred T.; and Heinz, Walter E., to Celanese Corporation. Stabilization of oxymethylene copolymers. 3,428,605, 2-18-69, Cl. 260-67.
Smith, Ellsworth M., to Steel Improvement and Forge Company, The. Seal weld hand hole cover. 3,478,915, 11-18-69, Cl. 220-25.
Smith, Elwood. Rotary engine. 3,439,582, 4-22-69, Cl. 91-99.
Smith, Emile G., to Avco Corporation. Automatic starting and protection system for a gas turbine. 3,470,691, 10-7-69, Cl. 60-39.09
Smith, Eric P., to Industrial Covers, Inc. Automatic inflation system for evacuation slide. 3,463,287, 8-26-69, Cl. 193-25.
Smith, Eric, to Olin Mathieson Chemical Corporation. Polyhalodiphenyl monoamines. 3,480,673, 11-25-69, Cl. 260-578.
Smith, Ernest L., to Texas Eastern Transmission Corporation. Cryogenic recovery vaporizer. 3,438,216, 4-15-69, Cl. 62-52.
Smith, Ernest L.; and Collie, Stafford D., to Phillips Petroleum Company. Denestable container cover. 3,448,888, 6-10-69, Cl. 220-60.
Smith, Ethan A., to Plummer, Walter A. Elevator cable protector and method. 3,430,733, 3-4-69, Cl. 187-1.
Smith, Eugene E.; and Cannon, Robert H., to United States Steel Corporation. Crop disposal device. 3,459,082, 8-5-69, Cl. 83-153.
Smith, Eugene J., to Yeomans Brothers Company. Aeration apparatus. 3,426,899, 2-11-69, Cl. 210-96.
Smith, F., & Co. (Whitworth) Limited: *See*—
Newton, Clifford, 3,448,470.
Smith, Floyd E. Internal Geneva lock. 3,478,616, 11-18-69, Cl. 74-436.
Smith, Forest D.; and Alcock, Derrick N., to Electric Machinery Mfg., Company. Overvoltage control. 3,463,998, 8-26-69, Cl. 322-28.
Smith, Francis Hughes, to Vickers Limited. Optical dual magnification system. 3,459,464, 8-5-69, Cl. 350-40.
Smith Francis M.: *See*—
Harris, Martin H.; Smith Francis M.; and Jennings, James W.,3,447,607.
Terwilliger, Paul L.; and Smith, Francis M.,3,443,429.
Smith, Frank Burchard; and Harley, Stephen Brian. Stairway construction. 3,467,220, 9-16-69, Cl. 182-115.
Smith, Frank E., to Algraphy Limited. Light-sensitive naphthoquinone diazide ester compounds and printing plates made therefrom. 3,454,400, 7-8-69, Cl. 96-91.
Smith, Frank J., Jr.; and Smith, Jarrell Lee. Irrigating apparatus connector assembly. 3,446,434, 5-27-69, Cl. 239-212.
Smith, Frank J. Liquid treating apparatus and method. 3,441,503, 4-29-69, Cl. 210-35.
Smith, Frank R.: *See*—
Shaff, Gerald H.; Smith, Frank R.; Haren, Ralph J.; and Chiappe, Orlando J.,3,479,725.
Smith, Frank T.; and Smith, Robert D., to Du Pont de Nemours, E. I., and Company. Method and apparatus for determining filtrability time. 3,455,146, 7-15-69, Cl. 73-61.4
Smith, Frank, to Imperial Chemical Industries Limited. Anode assembly. 3,437,579, 4-8-69, Cl. 204-288.
Smith, Franklin J., to Cryodry Corporation. Microwave apparatus. 3,446,929, 5-27-69, Cl. 219-10.55
Smith, Frederic R., to O & S Bearing & Mfg., Co. Dust seal for ball joints. 3,451,700, 6-24-69, Cl. 287-90.
Smith, Frederic R., to O & S Bearing & Mfg., Co. Ball joint construction. 3,451,701, 6-24-69, Cl. 287-90.
Smith, Fred: *See*—
Halleck, Frank E.; and Smith, Fred,3,423,288.
Smith, Gary C., Jr., to Abex Corporation. Winch cable anti-slack unit. 3,466,013, 9-9-69, Cl. 254-175.7
Smith, Gary W.: *See*—
Serio, Vincent J., Jr.; Smith, Gary W.; and Westerlund, Donald R.,3,469,745.
Smith, Geoffrey H.; and Saltman, William M., to Goodyear Tire & Rubber Company, The. Process for producing reduced transition metal halides. 3,466,140, 9-9-69, Cl. 23-87.
Smith, Geoffrey Howard; Thomas, Derek; and Hall, Andrew Harklestone, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of purifying insulin employing carboxymethyl cellulose. 3,468,870, 9-23-69, Cl. 260-112.7
Smith, George B.; and Vested, Robert A., said Vested assor to said Smith. Perforating printing improvement. 3,431,847, 3-11-69, Cl. 101-426.
Smith, George D., to Raybestos-Manhattan, Inc. Method of making a molded V-belt. 3,425,883, 2-4-69, Cl. 156-140.
Smith, George D. Jump stick. 3,447,801, 6-3-69, Cl. 272-74.
Smith, George E. P., Jr.: *See*—
Oberster, Arthur E.; and Smith, George E. P., Jr.,3,424,713.
Smith, George E., to Monsanto Company. Counter and divider. 3,426,180, 2-4-69, Cl. 235-92.
Smith, George E., to Bell Telephone Laboratories, Incorporated. Solid state waveguide optical second harmonic generator. 3,430,061, 2-25-69, Cl. 307-88.3
Smith, George E., to Monsanto Company. Unijunction transistor timing circuit. 3,480,801, 11-25-69, Cl. 307-293.
Smith, George E.; Lightner, Gene E.; and Highfill, John F., to Monsanto Company. Alarm annunciator circuitry. 3,456,251, 7-15-69, Cl. 340-213.1
Luse, Wallace K.; and Smith, George E.,3,421,360.
Richards, Paul L.; and Smith, George E.,3,436,545.
Smith, George H.: *See*—
Andrews, Robert S. L.; and Smith, George H.,3,458,613.
Smith, George H., to Minnesota Mining and Manufacturing Company. Aromatic polyalkylenamides. 3,440,242, 4-22-69, Cl. 260-239.
Smith, George H., to Bell, F. W., Inc. Magnetic reaction testing apparatus and method of testing utilizing semiconductor means for magnetic field sensing of a eddy-current-reaction magnetic field. 3,449,664, 6-10-69, Cl. 324-40.
Smith, George H.; and Salmon, Leonard O. Automatic switch-bank cleaning means. 3,465,376, 9-9-69, Cl. 15-104.92
Smith, George L. V. Die-cut form. 3,439,444, 4-22-69, Cl. 46-1.
Smith, George L. Filter apparatus for swimming pool water. 3,420,376, 1-7-69, Cl. 210-95.
Smith, George Mitchell, to General Electric Company Limited, The. Controlled bias feedback analog to digital converter. 3,438,024, 4-8-69, Cl. 340-347.
Smith, George Revere: *See*—
Messersmith, Lewis D.; Smith, George Revere; and Waller, James R., Jr.,3,444,520.
Smith, George R., to General Motors Corporation. Releasable one-way device and transmission. 3,466,947, 9-16-69, Cl. 74-759.
Smith, George, to Shell Oil Company. Electrolytic process of waking organic dithionates. 3,472,747, 10-14-69, Cl. 204-72.
Smith, George; May, Clayton A.; Seid, Donald M.; and Haycock, Ernest W., to Shell Oil Company. Process for coating surfaces by electrodeposition. 3,455,805, 7-15-69, Cl. 204-181.
Smith, Gerald Arthur; and Phillipps, Gordon Hanley, to Glaxo Laboratories Limited. Production of equilenin and related compounds and intermediates therefor. 3,476,780, 11-4-69, Cl. 260-397.3
Smith, Gerald C., to Friedrich Refrigerators, Incorporated. Air conditioner control system. 3,474,639, 10-28-69, Cl. 62-160.
Smith, Gerald D., to Versatek Industries, Inc. Automotive overdrive control. 3,447,034, 5-27-69, Cl. 317-5.
Smith, Gerald D.; and Marlow, David G. Melon loader. 3,435,601, 4-1-69, Cl. 56-327.
Smith, Gilbert E. Travel limiting service for shopping cart. 3,475,036, 10-28-69, Cl. 280-33.99
Smith, Glenn D.; and Cook, Robert G., Sr., to Gem City Engineering Company, The. Receptacle. 3,426,216, 2-4-69, Cl. 307-112.
Smith, Glenn D.: *See*—
Murray, Robert R.; and Smith, Glenn D.,3,482,423.
Smith, Gloria E.: *See*—
Roberts, Elbert E., 3,455,041.
Smith, Gordon Ernest: *See*—
Marshall, Geoffrey; and Smith, Gordon Ernest,3,470,139.
Smith, Gordon R., to Minnesota Mining and Manufacturing Company. Controllable irradiation device. 3,426,206, 2-4-69, Cl. 250-106.
Smith, Gordon. Automotive steering. 3,435,702, 4-1-69, Cl. 74-552.
Smith, Gordon. Automobile safety devices. 3,468,556, 9-23-69, Cl. 280-150.
Smith, Gus T., to Ace Engineering Co. Throat plate. 3,423,963, 1-28-69, Cl. 66-125.
Smith, Gus T., to Marvel Specialty Company, mesne. Throat plate. 3,444,704, 5-20-69, Cl. 66-125.
Smith, H. J. Nutcraker. 3,473,586, 10-21-69, Cl. 146-16.
Smith, Harold A.: *See*—
Cone, Charles N.; Hohbach, Dale J.; and Smith, Harold A.,3,428,467.
Smith, Harold E., to R-N Acceptance Limited. Apparatus for divesting a receptacle of its contents. 3,458,071, 7-29-69, Cl. 214-302.
Smith, Harold J., to General Electric Company. Voltage stabilizing transformer with variable air gap characteristics. 3,456,223, 7-15-69, Cl. 336-165.
Smith, Harold W.: *See*—
Rosenberg, Sherman; Smith, Harold W.; and Hodge, Walter D.,3,445,902.
Smith, Harry A., to Dow Chemical Company, The. Perhaloacetone based polymers crosslinked with alkylenimines. 3,475,376, 10-28-69, Cl. 260-63.
Smith, Harry A.: *See*—
Doorenbos, Harold E.; and Smith, Harry A.,3,468,847.
Harrison, Ian R.; Smith, Harry A.; and Handlovits, Carl E.,3,451,873.
Smith, Harry F.; and Castellano, Joseph A., to Thiokol Chemical Corporation. Fluorimino-cyclo-alkanes and alkenes. 3,479,404, 11-18-69, Cl. 260-566.

Smith, Harry J.: *See—*
Rocks, Eugene S.; and Smith, Harry J.,3,419,967.

Smith, Harry; and Wootton-Davies, James W. Treatment of granular, crushed, powdered or like materials. 3,436,124, 4-1-69, Cl. 302-36.

Smith, Hayden & Company Limited: *See—*
de May, Gwilym Mansell, 3,439,698.

Smith, Henry M.; and Everts, Jack A. Footwear. 3,469,576, 9-30-69, Cl. 128-595.

Smith, Herbert J.: *See—*
Arnold, Alanson J.; McKeough, Elmer L.; Ripple, William M.; Schoeffler, Paul W.; and Smith, Herbert J.,3,448,497.

Smith, Herbert L.; and Smith, Ruie N. Boat anchor. 3,428,014, 2-18-69, Cl. 114-208.

Smith, Herbert Q., to Pennsalt Chemicals Corporation. Process for desiccating plants. 3,454,390, 7-8-69, Cl. 71-70.

Smith, Herbert Q.; and Ivy, Edward Everett, to Pennsalt Chemicals Corporation. Process for controlling insects with 2-butynylene 1,4-bis(phenylcarbamates). 3,466,374, 9-9-69, Cl. 424-300.

Smith, Herbert Q.; and Miller, Harold J., to Pennwalt Corporation. Process of controlling fungi with 1,3-di-aryl-imino- hydantoins. 3,484,525, 12-16-69, Cl. 424-273.

Smith, Herchel: *See—*
Hughes, Gordon Alan; Smith, Herchel; and Hartley, David, 3,458,579.

Smith, Herchel: *See—*
Buzby, George C., Jr.; and Smith, Herchel,3,452,008.
Buzby, George C., Jr.; and Smith, Herchel,3,470,215.
Buzby, George C., Jr.; and Smith, Herchel,3,474,115.
Buzby, George C., Jr.; and Smith, Herchel,3,474,116.
Buzby, George C., Jr.; Smith, Robert C.; and Smith, Herchel,3,479,376.
Foell, Theodore J.; Rees, Richard W.; and Smith, Herchel,3,455,909.
Hughes, Gordon A.; and Smith, Herchel,3,479,435.
Hughes, Gordon Alan; and Smith, Herchel,3,442,920.
Hughes, Gordon Alan; and Smith, Herchel,3,459,778.
Hughes, Gordon Alan; and Smith, Herchel,3,467,652.
Hughes, Gordon Alan; and Smith, Herchel,3,471,531.
Hughes, Gordon Alan; and Smith, Herchel,3,478,106.
Hughes, Gordon Alan; and Smith, Herchel,3,479,344.
Hughes, Gordon Alan; Smith, Herchel; and Hartley, David,3,458,579.
Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel,3,462,459.
Jen, Timothy Y.; Hughes, Gordon A.; and Smith, Herchel,3,467,676.
Rees, Richard W.; and Smith, Herchel,3,458,503.
Rees, Richard W.; and Smith, Herchel,3,475,469.
Rees, Richard W.; Foell, Theodore J.; and Smith, Herchel,3,479,340.
Stein, Reinhardt P.; and Smith, Herchel,3,478,070.
Stein, Reinhardt P.; Buzby, George C., Jr.; and Smith, Herchel,3,436,411.
Stein, Reinhardt P.; Buzby, George C., Jr.; Smith, Robert C., Jr.; and Smith, Herchel,3,465,011.
Stein, Reinhardt P.; Smith, Herchel; and Smith, Robert C.,3,475,468.
Strike, Donald P.; Herbst, David R.; and Smith, Herchel,3,452,004.
Teller, Daniel M.; Douglas, George H.; and Smith, Herchel,3,465,009.
Tokolics, Joseph; Hughes, Gordon A.; and Smith, Herchel,3,483,185.

Smith, Herman E., to Borg-Warner Corporation. Slip ring assembly and process of manufacturing same. 3,435,402, 3-25-69, Cl. 339-5.

Smith, Hinsdale, Jr., d/b/a/ Nikor Products Company: *See—*
Bragga, Joseph, Jr., 3,429,764.

Smith, Holley R.; and Sykes, Bernard P., to Honeywell Inc., mesne. Ammonia battery. 3,445,295, 5-20-69, Cl. 136-90.

Smith, Horace L., Jr., to Hupp Corporation. Apparatus for cooling particulate solids. 3,447,338, 6-3-69, Cl. 62-374.

Smith, Horace L., Jr. Apparatus for and method of drying ink and other materials on a carrier. 3,448,526, 6-10-69, Cl. 34-4.

Smith, Horace L., Jr. Methods of drying. 3,460,265, 8-12-69, Cl. 34-1.

Smith, Houston M. Bale turning apparatus. 3,472,398, 10-14-69, Cl. 214-1.

Smith, Howard, Co.: *See—*
Smith, Howard F., III, 3,469,609.

Smith, Howard F., III, to Smith, Howard, Co. Apparatus for making well screen. 3,469,609, 9-30-69, Cl. 140-112.

Smith, Howard John Leonard, to Dzus Fastener Co., Inc. Quick release fastener. 3,486,205, 12-30-69, Cl. 24-221.

Smith, Howard S.; Trogdon, Thomas; and Holt, Thomas C., to Dayco Corporation. Cellular products and method of manufacture. 3,457,201, 7-22-69, Cl. 260-2.5

Smith, Howard W.: *See—*
Elton, Earl W.; and Smith, Howard W.,3,443,702.

Smith, Hubert C.: *See—*
Jensen, Niels H.; and Smith, Hubert C.,3,433,286.
Jensen, Niels H.; and Smith, Hubert C.,3,465,809.

Smith, Hubert S., Jr.; and Wright, Donald R., to Dow Chemical Company, The. Apparatus for forming walled structures of plastic foam. 3,423,791, 1-28-69, Cl. 18-5.

Smith, Hubert S.; and Wright, Donald R., to Dow Chemical Company, The. Apparatus for making walled structures of plastic foam. 3,443,276, 5-13-69, Cl. 18-5.

Smith, Hubert Stacey; Wright, Donald R.; and Chisholm, Douglas S., to Dow Chemical Company, The. Method and apparatus for preparing foamed plastic slabs. 3,458,609, 7-29-69, Cl. 264-46.

Smith, Hugh D.: *See—*
Alexander, Emmett L.; and Smith, Hugh D.,3,464,507.

Smith, Hugh Edward, to Roper Corporation. Control means for hydrostatic transmission. 3,431,792, 3-11-69, Cl. 74-481.

Smith, Hugh Edward, to International Harvester Company. Planter marker latch and alternating means. 3,450,210, 6-17-69, Cl. 172-130.

Smith, Hugh R., Jr., to Air Reduction Company, Incorporated. Vacuum diffusion pump. 3,450,336, 6-17-69, Cl. 230-101.

Smith, Hugh R., Jr., to Air Reduction Company, Incorporated, mesne. Electron beam conditioning ingot and slab surfaces. 3,474,218, 10-21-69, Cl. 219-121.

Smith, Hugh R., Jr.: *See—*
Kennedy, Kurt David; and Smith, Hugh R., Jr.,3,437,328.

Smith, Ian Douglas: *See—*
Martin, John Christopher; and Smith, Ian Douglas,3,456,221.

Smith, Ian E.: *See—*
Metcalfe, Kenneth A.; Gillespie, Frank C.; and Smith, Ian E.,3,476,935.

Smith Industries International, Inc.: *See—*
Garrett, William R., 3,447,340.
Garrett, William R., 3,460,639.
Garrison, Erskine P.; and Tschirky, John E., 3,456,746.
Miller, Charles E.; and Garrett, William R., 3,463,252.
Neilson, William J., 3,476,446.
Schroeder, Fred W., 3,453,756.

Smith International, Inc.: *See—*
Garrett, William R.; and Moore, Stanley C., 3,471,177.

Smith, Irving. Combined desk organizer and calendar. 3,468,048, 9-23-69, Cl. 40-107.

Smith, Ivie L., to General Electric Company. Method for producing electroluminescent zinc-cadmium sulfide-oxide phosphors. 3,462,372, 8-19-69, Cl. 252-301.6

Smith, J Perry: *See—*
Fladlien, David G.; and Smith, J Perry,3,422,689.

Smith, Jack K.: *See—*
Helt, Wilson G.; and Smith, Jack K.,3,470,414.

Smith, Jack L. Selection apparatus and method. 3,421,239, 1-14-69, Cl. 40-19.5

Smith, Jack V.: *See—*
Mc Vey, Charles I.; Mc Connaughey, Newton; Gibson, Harlan D.; and Smith, Jack V.,3,449,175.

Smith, James A. Necktie holder. 3,467,993, 9-23-69, Cl. 24-50.

Smith, James A.: *See—*
Curran, Daniel R.; and Smith, James A.,3,453,458.
Roth, Charles T.; and Smith, James A.,3,449,630.

Smith, James E., to United Aircraft Corporation. Single impression multicolor printing. 3,420,170, 1-7-69, Cl. 101-175.

Smith, James E., to United Aircraft Corporation. Method and article for printing and engraving. 3,455,239, 7-15-69, Cl. 101-395.

Smith, James F.: *See—*
Chiou, Charles; Smith, James F.; and Huang, Sydney S.,3,485,996.

Smith, James Gerald, to Du Pont de Nemours, E. I., and Company. Spinneret pack for flash extrusion. 3,484,899, 12-23-69, Cl. 18-8.

Smith, James Gerald: *See—*
Kilby, Claude William; and Smith, James Gerald,3,456,156.

Smith, James G.; Kibler, Charles J.; and Schulken, Roger M., Jr., to Eastman Kodak Company. Method of preventing rearrangement of blocked copolyesters. 3,483,157, 12-9-69, Cl. 260-31.2

Smith, James Gordon, to Ciba Corporation. Hypodermic needle unit with integral needle guard. 3,434,473, 3-25-69, Cl. 128-221.

Smith, James L.: *See—*
Bobeck, Andrew H.; and Smith, James L.,3,479,654.
Gianola, Umberto F.; Kaenel, Reginald A.; and Smith, James L.,3,482,224.
Harrington, Robert C., Jr.; Smith, James L.; and Bond, James H.,3,463,688.
Kaenel, Reginald A.; and Smith, James L.,3,466,628.
Kaenel, Reginald A.; and Smith, James L.,3,470,543.

Smith, James L., to Bell Telephone Laboratories, Incorporated. Character recognizer employing domain wires. 3,439,351, 4-15-69, Cl. 340-174.

Smith, James L., to Bell Telephone Laboratories, Incorporated. Two-core-per-bit wattle iron memory. 3,440,622, 4-22-69, Cl. 340-174.

Smith, James L., to Bell Telephone Laboratories, Incorporated. Domain wall shift register including a buffer storage position. 3,452,341, 6-24-69, Cl. 340-174.

Smith, James L.; and Tolman, Edward M., to Bell Telephone Laboratories, Incorporated. Rotational mode magnetic film memory. 3,471,836, 10-7-69, Cl. 340-174.
Smith, James L.; and Willen, Donald W., to United States of America, Atomic Energy Commission. Gage device for measurement of density profiles of snowpack. 3,432,656, 3-11-69, Cl. 250-43.5
Smith, James M.: *See—*
Gartner, Stanley J.; Regec, John J.; and Smith, James M.,3,465,867.
Littell, Ruddy; Smith, James Miller, Jr.; and Allen, Duff Shederic, Jr.,3,454,587.
Smith, James Ray, to American Standard Inc. Electrical control of room air conditioners. 3,444,391, 5-13-69, Cl. 307-141.
Smith, James R.; Herrell, Robert C.; and Burch, James B., to Baker, Hugh J., & Company. Winch assembly. 3,456,899, 7-22-69, Cl. 242-158.
Smith, James T., to Keystone Industries, Inc. Impact absorbing apparatus. 3,485,385, 12-23-69, Cl. 213-43.
Smith, James W. Wet-dry survival suit. 3,444,570, 5-20-69, Cl. 9-331.
Smith, James, to Fairchild Hiller Corporation. Waste disposal system. 3,448,467, 6-10-69, Cl. 4-120.
Simmons, Derrick George; and Smith, James,3,473,143.
Smith, Jarrell Lee: *See—*
Smith, Frank J., Jr.; and Smith, Jarrell Lee,3,446,434.
Smith, Jean G.; and Fitch, Frederick T., to May be granted to United States of America, Atomic Energy Commission, under provision of 42 U.S.C. 2182. Process for preparing an yttria aquasol. 3,476,691, 11-4-69, Cl. 252-313.
Smith, Jean G.: *See—*
Mac Cragh, Adolfo; Sanchez, Moises G.; and Smith, Jean G.,3,431,097.
Smith, Jeffrey H.: *See—*
Best, Allan I.; Farnbach, William A.; and Smith, Jeffrey H.,3,423,629.
Smith, Jerald T.: *See—*
Noller, Fred W.; Bingley, George W.; and Smith, Jerald T.,3,452,882.
Smith, Jessie B. Cooling garment. 3,452,554, 7-1-69, Cl. 62-259.
Smith, Jimmie H.: *See—*
Bodenheimer, Vernon B.; Smith, Jimmie H.; and Coleman, Henry C.,3,472,732.
Smith, Joe A., to Cincinnati Shaper Company, The. Compacting press. 3,464,089, 9-2-69, Cl. 18-16.7
Smith, Joel D.; Smith, Leslie Clyde; and Smith, Leslie Curtis. Plastic rotary type ventilator. 3,430,550, 3-4-69, Cl. 98-72.
Smith, John Alfred: *See—*
Grindrod, Harold Ernest; and Smith, John Alfred,3,423,014.
Smith, John D., 1/2 to Martensen Enterprises Inc. Gimbaled, vehicle-mounted post-hale digging system. 3,452,829, 7-1-69, Cl. 173-28.
Smith, John E., Jr.: *See—*
Nathan, Marshall I.; and Smith, John E., Jr.,3,480,879.
Smith, John G.: *See—*
Williams, Keith R.; and Smith, John G.,3,464,861.
Smith, John H., to Continental Oil Company. Recovery of oil from shale. 3,437,378, 4-8-69, Cl. 299-2.
Smith, John H., to United States of America, Army. Socket for subminiature electronic devices. 3,449,707, 6-10-69, Cl. 339-147.
Smith, John H.; and Laurent, Bernard J., to Continental Oil Company. Solids purging from an aluminum alkyl stream. 3,470,223, 9-30-69, Cl. 260-448.
Smith, John H.: *See—*
Olinger, Eugene C.; Bradley, William R.; and Smith, John H.,3,431,314.
Smith, John J., to Mueller Co. Water service fitting with thaw wire connection. 3,474,378, 10-21-69, Cl. 339-15.
Smith, John J.: *See—*
Leopold, Wilbur R., Jr.; Smith, John J.; and Floren, Carl E.,3,460,553.
Mueller, Frank H.; Leopold, Wilbur R., Jr.; and Smith, John J.,3,437,106.
Brotherton, Thomas K.; and Smith, John, Jr.,3,422,165.
Brotherton, Thomas K.; and Smith, John, Jr.,3,428,611.
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr.,3,454,606.
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr.,3,470,271.
Smith, John L.: *See—*
Bennett, John V.; Smith, John L.; and Berry, Peter W.,3,458,343.
Smith, John L.; and Singer, Reginald D., to Dunlop Company Limited, The. Polymer compositions comprising the reaction products of polyepisulphides and phenolic resins. 3,423,356, 1-21-69, Cl. 260-32.8
Singer, Reginald D.; and Smith, John L.,3,444,123.
Smith, John M.: *See—*
Kelly, Stanley R.; and Smith, John M.,3,435,764.
Smith, John O.: *See—*
Satterfield, Charles N.; Smith, John O.; and McHugh, Kenneth L.,3,436,268.
Smith, John P., Jr., to Vishay Intertechnology, Inc. Precision resistor. 3,474,375, 10-21-69, Cl. 338-231.
Smith, John P.: *See—*
Morse, Charles E.; and Smith, John P.,3,475,557.
Smith, John R.; and Bray, James A., to National Steel Corporation. Electrodeposition of chromium- containing films on ferrous metal articles. 3,475,295, 10-28-69, Cl. 204-56.
Smith, John R.; and Bray, James A., to National Steel Corporation. Process for testing the corrosion resistance of a metallic surface. 3,479,256, 11-18-69, Cl. 204-1.
Smith, John S.: *See—*
Samodai, Gyula L.; and Smith, John S.,3,449,755.
Smith, John W.: *See—*
Boland, Lawrence J.; Mizzi, John V.; and Smith, John W.,3,449,724.
Smith, Jonathan S., II: *See—*
Mazdiyasni, Khodabakhsh S.; Lynch, Charles; and Smith, Jonathan S., II,3,432,314.
Smith, Joseph A.; and Formaini, Richard E., to Allied Chemical Corporation. Manufacture of nitrogen tetroxide. 3,421,854, 1-14-69, Cl. 23-162.
Smith, Joseph Austin. Coin lock mechanism. 3,441,118, 4-29-69, Cl. 194-59.
Smith, Joseph Austin. Coin operated lock mechanism. 3,450,244, 6-17-69, Cl. 194-59.
Smith, Joseph B. Flange coupling repair ring. 3,467,141, 9-16-69, Cl. 138-97.
Smith, Joseph E., Jr., to Ex-Cell-O Corporation. Pneumatic movement of data member. 3,422,411, 1-14-69, Cl. 340-174.1
Smith, Joseph K. Work handling fixture. 3,479,775, 11-25-69, Cl. 51-237.
Smith, Joseph L.: *See—*
Nowak, Leon J., Jr.; Robinson, Joseph L.; Krolopp, Otto C.; Keenan, Joseph H.; and Smith, Joseph L.,3,486,240.
Smith, Joseph R., Jr.: *See—*
Holden, George R.; and Smith, Joseph R., Jr.,3,420,225.
Smith, Joseph S., to Houdaille Industries, Inc. Method of and means for fluidic control. 3,455,317, 7-15-69, Cl. 137-81.5
Smith, Joseph S., to Houdaille Industries, Inc. Fluidic devices. 3,483,882, 12-16-69, Cl. 137-81.5
Smith, Joseph W.: *See—*
Dixon, John S.; and Smith, Joseph W.,3,450,397.
Smith, Joseph W., to National Distillers and Chemical Corporation. Tire valve with pressure correction means. 3,454,033, 7-8-69, Cl. 137-226.
Smith, Julian C.: *See—*
Bernard, Robert A.; Dove, William T.; and Smith, Julian C.,3,442,026.
Smith, Julius H. Tape grip and handle. 3,424,038, 1-28-69, Cl. 81-3.
Smith, Kai Robert, to AB Autokemi. Device for heating chemical reagents. 3,435,170, 3-25-69, Cl. 219-10.49
Smith, Karl E. Panoramic rear and side view mirror system. 3,463,578, 8-26-69, Cl. 350-302.
Smith, Keith L.; and Petrone, Joseph V., to Union Carbide Corporation. Method of producing thermoplastic film characterized by improved properties. 3,465,070, 9-2-69, Cl. 264-88.
Smith, Keith V.: *See—*
Wachter, William J.; and Smith, Keith V.,3,437,225.
Smith, Kenneth C., to British Oxygen Company Limited, The. Air separation employing waste nitrogen reheated by incoming air in work expansion. 3,447,331, 6-3-69, Cl. 62-13.
Smith, Kenneth C.; and Marks, Robert, to Crane Co. Method and apparatus for water treatment. 3,458,438, 7-29-69, Cl. 210-26.
Smith, Kenneth F.; and May, Richard K., to Gulf General Atomic Incorporated, mesne. Method and apparatus for electrohydraulic forming. 3,423,979, 1-28-69, Cl. 72-56.
Smith, Kenneth L., to Dolphin-Kamper, Inc. Snowmobile camper. 3,464,735, 9-2-69, Cl. 296-23.
Smith, Kerwyn B.: *See—*
Beals, Duane E.; Berchtold, Donald R.; O'Brien, James W.; Rosenberger, Paul C.; Sieving, Alfred W.; and Smith, Kerwyn B.,3,448,816.
Smith Kline & French Laboratories: *See—*
Bailey, Philip G., 3,466,842.
Bartels-Keith, James Richard; and Hills, Derek William, 3,468,891.
Bescript, Frederick; and Whitecar, Alten E., 3,455,086.
Blank, Benjamin; and Sutton, Blaine M., 3,475,427.
Broadbent, John L.; Bowden, Kenneth; and Ross, William James, 3,467,715.
Caldwell, Henry C.; and Groves, William G., 3,458,507.
Carlson, Henry Clifford, Jr.; and Greenberg, Louise H., 3,423,511.
Cevallos, William H.; Holmes, William L.; and Rubinstein, Richard I., 3,467,749.
Chow, Alfred W., 3,427,353.
Chow, Alfred W., 3,439,100.

Chow, Alfred W., 3,439,101.
Chow, Alfred W., 3,439,102.
Chow, Alfred W., 3,468,888.
Chow, Alfred W.; and Dunn, George L., 3,468,950.
Chow, Alfred W.; and Hall, Norman M., 3,480,628.
Coen, Edward D., 3,487,154.
Deutsch, Daniel H.; Green, Stanley E.; Murray, John D.; and Saleeby, Edward W., 3,425,912.
Di Cuollo, C John; Kinney, Roland W.; and Stewart, Richard C., 3,453,276.
Doty, James E., 3,443,771.
Douglas, Bryce; and Weisbach, Jerry A., 3,455,936.
Douglas, Bryce; and Weisbach, Jerry A., 3,480,637.
Edwards, William C., 3,480,004.
Edwards, William C., 3,480,005.
Georgian, Vlasios; and Kerwin, James F., 3,476,745.
Georgian, Vlasios; and Kerwin, James F., 3,479,342.
Goonewardene, Hilary F.; and Loev, Bernard, 3,455,673.
Goonewardene, Hilary F., 3,471,612.
Green, Albert Lawrence; and Willey, George Lawrence, 3,456,009.
Green, Albert Lawrence; and Fielden, Roy, 3,483,299.
Holden, Kenneth G., 3,449,434.
Holden, Kenneth G.; and Kerwon, James F., 3,462,465.
Holden, Kenneth G., 3,470,156.
Kaiser, Carl; and Zirkle, Charles L., 3,423,461.
Kaiser, Carl; and Zirkle, Charles L., 3,449,427.
Kaiser, Carl; and Zirkle, Charles L., 3,462,491.
Kaiser, Carl; and Zirkle, Charles L., 3,470,188.
Kaiser, Carl; and Zirkle, Charles L., 3,476,760.
Kaiser, Carl; and Zirkle, Charles L., 3,485,844.
Kerwin, James F., 3,422,097.
Kerwin, James F., 3,433,787.
Kerwin, James F., 3,476,783.
Kormendy, Charles G., 3,444,298.
Kormendy, Charles G., 3,444,302.
Lafferty, John J.; and Zirkle, Charles L., 3,455,927.
Lafferty, John J., 3,470,154.
Larsen, Theodore J., 3,475,102.
Liston, Max D., 3,434,471.
Loev, Bernard, 3,422,194.
Loev, Bernard, 3,427,311.
Loev, Bernard, 3,429,892.
Loev, Bernard, 3,431,272.
Loev, Bernard, 3,431,273.
Loev, Bernard; and Tedeschi, Ralph E., 3,441,648.
Loev, Bernard; and Wilson, James W., 3,454,562.
Loev, Bernard, 3,455,930.
Loev, Bernard, 3,455,931.
Loev, Bernard, 3,455,932.
Loev, Bernard, 3,455,934.
Loev, Bernard; and Wilson, James W., 3,455,939.
Loev, Bernard, 3,455,945.
Loev, Bernard, 3,462,438.
Loev, Bernard; and Macko Edward, 3,462,535.
Loev, Bernard, 3,480,636.
Loev, Bernard, 3,481,942.
Maass, Alfred R.; Weinstock, Joseph; and Wiebelhaus, Virgil D., 3,436,392.
Maass, Alfred R.; Smyth, Murray G., Jr.; and Ullyot, Glenn E., 3,449,496.
Miller, Libby S., 3,449,422.
Pachter, Irwin J.; and Weinstock, Joseph, 3,426,019.
Pachter, Irwin J.; and Weinstock, Joseph, 3,429,878.
Stedman, Robert John, 3,455,948.
Stedman, Robert John, 3,456,008.
Stedman, Robert John, 3,480,642.
Sutton, Blaine M., 3,471,482.
Tedeschi, Ralph E.; and Weinstock, Joseph, 3,455,942.
Warren, Brian, 3,457,897.
Weinstock, Joseph, 3,453,323.
Weinstock, Joseph, 3,470,155.
Whitecar, Alten E., 3,431,992.
Whitecar, Alten E., 3,440,116.
Wilson, James W., 3,454,578.
Zirkle, Charles L., 3,449,334.

Smith, La Verne: *See—*
Pipes, Dennis A.; and Smith, La Verne,3,476,491.

Smith, Lafayette B., to Electric Materials Company, The. Machine for pressing slugs into shapes. 3,460,369, 8-12-69, Cl. 72-404.

Smith, Larrabee M.: *See—*
Creasy, Fred K.; Horlacher, Robert L.; Logan, Mason A.; Smith, Larrabee M.; and Young, William Rae, Jr.,3,440,337.

Smith, Larry G.; Blake, Gordon H.; and Van Way, Jim P., to Alpine Geophysical Associates, Inc., mesne. Method and apparatus for conveying materials. 3,438,678, 4-15-69, Cl. 299-17.

Smith, Larry S.: *See—*
Kreuter, Kenneth G.; and Smith, Larry S.,3,453,510.

Smith, Lawrence Alfred, Jr.: *See—*
Liao, Hsiang-Peng; Smith, Lawrence Alfred, Jr.; and Tuemmler, William B.,3,454,655.

Smith, Lawrence E.: *See—*
Lister, John W.; and Smith, Lawrence E.,3,440,482.

Smith, Lawrence H.: *See—*
Brawner, Frederick A.; and Smith, Lawrence H.,3,442,150.
Brawner, Frederick A.; Smith, Lawrence H.; and Pringle, William L.,3,442,151.

Smith, Lawrence H.; and Partridge, Gerald J., to Robbins, Jim, Seat Belt Co. Rotary seat belt retractor. 3,445,078, 5-20-69, Cl. 242-107.

Smith, Lawrence L.: *See—*
Pryor, John A.; Frazier, Chester J., Jr.; Smith, Lawrence L.; and Stanzione, John A.,3,438,442.

Smith, Lawrence R., to Motorola, Inc. Magnetic core counter and shift register. 3,439,350, 4-15-69, Cl. 340-174.

Smith, Lee Davis, Jr., to Du Pont de Nemours, E. I., and Company. Polymer gel disintegrator. 3,482,597, 12-9-69, Cl. 137-544.

Smith, Leo R. Hydraulic dental syringe. 3,424,156, 1-28-69, Cl. 128-229.

Smith, Leon W. Air-propelling cushioning conveyor. 3,477,764, 11-11-69, Cl. 302-29.

Smith, Leonard Donald. Artificial eyes having a changeable pupil and movable iris portion actuated by muscle tissue. 3,480,971, 12-2-69, Cl. 3-13.

Smith, Leonard S., to Litton Precision Products, Inc. Current monitoring power regulator for microwave oven. 3,474,343, 10-21-69, Cl. 328-8.

Smith, Leonard, to Cotton Producers Institute. Differential treatment for improving the shape holding properties of cellulosic fabrics. 3,445,277, 5-20-69, Cl. 117-139.4

Smith, Leroy H., Jr., to General Electric Company. Articulated airfoil vanes. 3,442,493, 5-6-69, Cl. 253-78.

Smith, Leslie Clyde: *See—*
Smith, Joel D.; Smith, Leslie Clyde; and Smith, Leslie Curtis,3,430,550.

Smith, Leslie Curtis: *See—*
Smith, Joel D.; Smith, Leslie Clyde; and Smith, Leslie Curtis,3,430,550.

Smith, Leslie Haynes: *See—*
Bowley, Thomas William; and Smith, Leslie Haynes,3,421,136.

Smith, Leslie John George: *See—*
Neale, Denis Manktelow; and Smith, Leslie John George,3,455,632.

Smith, Lester L. Shutter structure. 3,461,629, 8-19-69, Cl. 52-314.

Smith, Lester R. Pipe stopper. 3,459,230, 8-5-69, Cl. 138-93.

Smith, Lester W. Chlorinated oxetane polymer coating. 3,446,652, 5-27-9, Cl. 117-75.

Smith, Lloyd B.,; Guinn, John T., Jr.; and Cox, Allan, to Dayton Sure-Grip and Shore Company, The. Process and apparatus for manufacturing concrete form ties. 3,477,111, 11-11-69, Cl. 29-155.

Smith, Lloyd H., to United States of America, Navy. Pressure pulse generator. 3,473,366, 10-21-69, Cl. 73-4.

Smith, Louis G., Jr., to Detrex Chemical Industries, Inc. Binary full adder-subtractor with bypass control. 3,482,085, 12-2-69, Cl. 235-176.

Smith, Louis P., to Houdaille Industries Inc. Slide control valve. 3,457,952, 7-29-69, Cl. 137-596.2

Smith, Lowell F.; and Widmoyer, George A., to General Motors Corporation. Multiextend screw mechanism. 3,421,383, 1-14-69, Cl. 74-424.8

Smith, Lowell R.; and Speziale, Angelo John, to Monsanto Company. Preparation of aroyl isocyanates and aryl isocyanatoformates. 3,450,747, 6-17-69, Cl. 260-479.

Smith, Marion D.: *See—*
Mooney, James J., Jr.; and Smith, Marion D.,3,426,621.

Smith, Marion F.: *See—*
Ermenc, Eugene D.; and Smith, Marion F.,3,456,931.

Smith, Marvin L., to United States of America, Atomic Energy Commission. Pocket radiation dosimeter utilizing capacitor integrator. 3,443,097, 5-6-69, Cl. 250-83.6

Smith, Melville H. Card-like object with invisible indicia and apparatus for detecting and displaying same. 3,466,775, 9-16-69, Cl. 40-52.

Smith, Melvin H.: *See—*
Miller, Kenneth F.; and Smith, Melvin H.,3,458,915.

Smith, Meredith E., Jr.: *See—*
Johanson, Frederic R.; and Smith, Meredith E., Jr.,3,477,380.

Smith, Merrill M.: *See—*
Barchi, Henry J.; Ferguson, Donald C.; and Smith, Merrill M.,3,465,384.

Smith, Michael Arthur: *See—*
Needham, Brian John; and Smith, Michael Arthur,3,469,940.

Smith, Michael Charles: *See—*
Keach, Anthony Eric Raoul; and Smith, Michael Charles,3,441,920.

Smith, Millard F. Apparatus for coating hollow objects with powder. 3,422,795, 1-21-69, Cl. 118-308.

Smith, Millard F.; and Anusauckas, Anthony V., said Anusauckas assor. to said Smith. Fluid mixing, moving and atomizing methods and apparatus. 3,434,698, 3-25-69, Cl. 259-4.

Smith, Morris A.: *See—*
Halprin, Sol; and Smith, Morris A.,3,451,748.
Smith, Morris G., Jr., to Amerace Esna Corporation, mesne. Hinges for ophthalmic mountings and the like. 3,427,681, 2-18-69, Cl. 16-128.
Smith, Newland F.: *See—*
Willcox, Frederick P.; and Smith, Newland F.,3,461,235.
Willcox, Frederick P.; and Smith, Newland F.,3,469,243.
Willcox, Frederick P.; and Smith, Newland F.,3,484,768.
Smith, Norman A. Golf ball retriever. 3,421,788, 1-14-69, Cl. 294-19.
Smith, Norman A.: *See—*
Goddard, Stanley; and Smith, Norman A.,3,471,280.
Smith Norman F.: *See—*
Bouvier, Francis L.; Carlson, Roy C., Jr.; Higgins, Charles W.; Smith Norman F.; and Kelley, John J.,3,438,155.
Langlois, Emile G.; and Smith, Norman F.,3,456,325.
Mandonas, Nicholas J.; and Smith, Norman F.,3,444,782.
Smith, Norman L. Line-of-sight clinometer. 3,483,624, 12-16-69, Cl. 33-70.
Smith, Norman William White: *See—*
Fox, Alan John; and Smith, Norman William White,3,439,167.
Smith, Noyes D., Jr.; and Vogel, Charles B., to Shell Oil Company. Acoustical method and apparatus for mapping the wall of a borehole. 3,430,726, 3-4-69, Cl. 181-0.5
Smith, Noyes D., Jr.; and Vogel, Charles B., to Shell Oil Company. Apparatus and method using ultrasonic radiation for mapping the wall of a borehole. 3,481,425, 12-2-69, Cl. 181-0.5
Smith, O Lewis, Jr.: *See—*
Burrow, William G.; and Smith, O Lewis, Jr.,3,424,050.
Smith, Oliver T.: *See—*
Keillor, John M.; and Smith, Oliver T.,3,433,353.
Smith, Otto J. M. System and method for alternating current machines, and apparatus therefor. 3,483,463, 12-9-69, Cl. 322-29.
Smith, Paul C.: *See—*
Jones, Stanley A.; and Smith, Paul C., 3,439,662.
Smith, Paul C.: *See—*
Jones, Stanley A.; and Smith, Paul C.,3,439,662.
Smith, Paul, Company: *See—*
Hildebrandt, Albert R., 3,458,844.
Smith, Paul, Inc.: *See—*
Hildebrandt, Albert R., 3,437,968.
Smith, Paul R., Jr., to Grace, W. R., & Co., mesne. Shallow cell and process for froth flotation. 3,455,451, 7-15-69, Cl. 209-164.
Smith, Peter B., to Dynamics Corporation of America. Hydrostatic transmission coupled standby power supply. 3,477,013, 11-4-69, Cl. 322-4.
Smith, Peter Harold, to Microtherm Limited. Preparation of food products. 3,435,753, 4-1-69, Cl. 99-327.
Smith, Peter Harold. Electronic heating apparatus. 3,436,506, 4-1-69, Cl. 219-10.55
Smith, Peter Harold, to Microtherm Limited. Heating of articles. 3,440,383, 4-22-69, Cl. 219-10.55
Smith, Peter Harold, to Microtherm Limited. Electronic ovens. 3,440,385, 4-22-69, Cl. 219-10.55
Smith, Peter Harold, to Microtherm Limited. Detection apparatus. 3,467,804, 9-16-69, Cl. 219-10.55
Smith, Peter H., to Lyons, J., & Company, Limited. Detector means for indicating a predetermined intensity of radiation. 3,423,679, 1-21-69, Cl. 324-95.
Smith, Peter Southcott, to U.S. Philips Corporation, mesne. Radiation-responsive circuit arrangement. 3,462,652, 8-19-69, Cl. 317-124.
Smith, Peter William: *See—*
Mumford, Howard; Smith, Peter William; and Halliday, David,3,452,294.
Smith, Peter W., to Bell Telephone Laboratories, Incorporated. Stabilized single mode laser. 3,484,719, 12-16-69, Cl. 331-94.5
Smith, Peter W., to Bell Telephone Laboratories, Incorporated. Dual cavity single-mode laser with feedback control of main cavity resonance. 3,486,131, 12-23-69, Cl. 331-94.5
Smith, Philip J., Jr.: *See—*
Chessin, Hyman; Seyb, Edgar J., Jr.; and Smith, Philip J., Jr.,3,464,899.
Smith, Philip N., to Deering Milliken Research Corporation. Seam detector apparatus. 3,462,568, 8-19-69, Cl. 200-61.13
Smith, R. P. M., Corporation: *See—*
Smith, Roy R., Jr., 3,475,249.
Smith, Ralph G.: *See—*
Roberts, Elbert E., 3,455,041.
Smith, Ralph J. Oscillating piston rotary engine. 3,474,766, 10-28-69, Cl. 123-15.
Smith, Ralph S., Jr., to Honeywell Inc. Electric shield and insulator. 3,436,467, 4-1-69, Cl. 174-35.
Smith, Ralph W.: *See—*
Hinderer, Helmuth E.; and Smith, Ralph W.,3,467,623.
Smith, Randal E., to Ideal Basic Industries, Inc., mesne. Control of flocculant introduction to centrifuging in potash ore treatments. 3,438,745, 4-15-69, Cl. 23-312.
Smith, Randal E., to Ideal Basic Industries, Inc., mesne. Method of slimes elimination in potash ore treatment. 3,451,788, 6-24-69, Cl. 23-299.
Smith, Randolph J.; and House, Kenneth R., to Interstate Engineering Corporation. Smoke detector. 3,460,124, 8-5-69, Cl. 340-237.
Smith, Ray F., to Berwick Forge and Fabricating Corporation. Rotary impeller and reinforcing means therefor. 3,452,843, 7-1-69, Cl. 188-218.
Smith, Raymond: *See—*
Sietmann, Vernon H., 3,479,748.
Smith, Raymond Anthony; and Dixon, John Thomas, to Albright & Wilson (Mfg.) Limited. Stabilized phosphate and dentifrice compositions and process for producing same. 3,442,604, 5-6-69, Cl. 23-108.
Smith, Raymond Anthony; and Dixon, John Thomas, to Albright & Wilson (Mfg) Limited. Preparation of ammonium phosphates without undesirable non-sulphide precipitates. 3,446,581, 5-27-69, Cl. 23-107.
Smith, Raymond Anthony; and Dixon, John Thomas, to Albright & Wilson (Mfg) Limited. Preparation of ammonium phosphates without undesirable non-sulphide precipitates. 3,446,582, 5-27-69, Cl. 23-107.
Smith, Raymond E., Jr. Work tower. 3,485,321, 12-23-69, Cl. 182-131.
Smith, Raymond John Dunsford, to American Cyanamid Company. Photographic dodging method. 3,442,648, 5-6-69, Cl. 96-44.
Smith, Raymond P., to Ford Motor Company. Window regulator mechanism. 3,423,876, 1-28-69, Cl. 49-227.
Smith, Raymond P. Device for tieing ribbon bows. 3,462,049, 8-19-69, Cl. 223-46.
Smith, Raymond P., to Ford Motor Company. Vehicle rearview mirror system. 3,468,601, 9-23-69, Cl. 350-307.
Smith, Raymond, to Continental Aviation and Engineering Corporation. Internally gimbaled vectoring nozzle. 3,438,581, 4-15-69, Cl. 239-265.35
Smith, Reynold B.; and Trimmer, Robert W., to York Label Corporation. Carbon master transfer device. 3,478,681, 11-18-69, Cl. 101-227.
Smith, Richard A., to American Machine & Foundry Company. Wood bowling pin with plastic protective cladding. 3,482,836, 12-9-69, Cl. 273-82.
Smith, Richard A.: *See—*
Gruss, George A.; Smith, Richard A.; and Infantino, Joseph R.,3,478,134.
Smith, Richard C.; and Hacskaylo, Michael, to Melpar, Inc. Thin film capacitor. 3,470,018, 9-30-69, Cl. 117-217.
Smith, Richard Dunham. Collapsible receptacle. 3,476,303, 11-4-69, Cl. 229-31.
Smith, Richard E.: *See—*
Blair, Chester C., Jr.; and Smith, Richard E.,3,470,413.
Smith, Richard E.; and Fleming, Raymond T., to Sylvania Electric Products, Inc. Lamp filament joint for incandescant lamps. 3,440,473, 4-22-69, Cl. 313-271.
Smith, Richard G., to Commercial Filters Corporation of California, Inc., mesne. Magnetic pressure indicator. 3,448,716, 6-10-69, Cl. 116-70.
Smith, Richard G., to Westinghouse Electric Corporation. Adjustable support. 3,476,349, 11-4-69, Cl. 248-476.
Smith, Richard G.; and Wentz, John L., to United States of America, Air Force, mesne. Low impedance thermal joint. 3,482,185, 12-2-69, Cl. 331-94.5
Smith, Richard H. Deep sea refuse disposal. 3,456,824, 7-22-69, Cl. 214-152.
Smith, Richard H.: *See—*
Nogle, Thomas D.; and Smith, Richard H.,3,485,538.
Smith, Richard J., to McGill Manufacturing Company, Inc. Bearing assembly and seal. 3,449,029, 6-10-69, Cl. 308-187.2
Smith, Richard L., to Lockheed Aircraft Corporation. Coating material and method of application. 3,446,650, 5-27-69, Cl. 117-62.
Smith, Richard V.: *See—*
Savage, Robert J.; and Smith, Richard V.,3,483,567.
Wood, David Hugh, Jr.; Gibney, Grant Omer; and Smith, Richard,3,476,567.
Smith, Robert Arthur, to K & L Steelfounders and Engineers Limited. Cranes. 3,427,902, 2-18-69, Cl. 74-859.
Smith, Robert C., Jr.: *See—*
Buzby, George C., Jr.; Smith, Robert C.; and Smith, Herchel,3,479,376.
Stein, Reinhardt P.; Buzby, George C., Jr.; Smith, Robert C., Jr.; and Smith, Herchel,3,465,011.
Smith, Robert C. Waterproof motorized surfboard. 3,456,613, 7-22-69, Cl. 115-70.
Smith, Robert C. Reversible necktie. 3,458,868, 8-5-69, Cl. 2-150.
Stein, Reinhardt P.; Smith, Herchel; and Smith, Robert C.,3,475,468.
Smith, Robert D.: *See—*
Hirsch, James Arthur; and Smith, Robert D.,3,461,322.

Smith, Robert Dilman, to Du Pont de Nemours, E. I., and Company. Subdivided heat exchanger tube bundle assembly providing longitudinally distributed fluid bypass and distributing channels. 3,438,434, 4-15-69, Cl. 165-158.
Smith, Frank T.; and Smith, Robert D.,3,455,146.
Smith, Robert Edward: *See*—
Cron, Martin John; and Smith, Robert Edward,3,480,614.
Smith, Robert E., to Sandy Hill Corporation. High speed web forming machine. 3,440,138, 4-22-69, Cl. 162-351.
Smith, Robert E., to Texas Instruments, Incorporated. Video switching circuit for line-sequential color television. 3,459,883, 8-5-69, Cl. 178-5.4
Farquhar, Marilyn G.; Smith, Robert E.; and Barish, Emil Z.,3,420,130.
Smith, Robert Eugene, to United States of America, Navy. Method for sodium concentration sensing. 3,480,520, 11-25-69, Cl. 204--001
Smith, Robert G.: *See*—
Rudo, Edward; Gerstein, Sidney; and Smith, Robert G.,3,445,604.
Smith, Robert H.: *See*—
Tonjes, Burl D., 3,481,468.
Smith, Robert H., to Sperry Rand Corporation. Directional control valve. 3,459,225, 8-5-69, Cl. 137-625.65
Smith, Robert H.; and Lenosky, John J., to Chrysler Corporation. Safety belt assembly. 3,453,699, 7-8-69, Cl. 24-77.
Smith, Robert J., to Hall, C. M., Lamp Company. Remote control apparatus. 3,444,755, 5-20-69, Cl. 74-501.
Smith, Robert J., to Hall, C. M., Lamp Company. Dual function lamp. 3,456,153, 7-15-69, Cl. 315-95.
Smith, Robert L.: *See*—
Hettlinger, Raymond C.; and Smith, Robert L.,3,431,937.
Smith, Robert L., to Chemetron Corporation. Scraping apparatus. 3,430,928, 3-4-69, Cl. 259-109.
Smith, Robert L., to Chemetron Corporation. Heat exchanger apparatus. 3,447,599, 6-3-69, Cl. 165-89.
Smith, Robert L., to Chemetron Corporation. Receptacle filling machines. 3,459,340, 8-5-69, Cl. 222-380.
Smith, Robert L.; and Gruver, Jerry T., to Phillips Petroleum Company. Blends of a liquid diene polymer and maleic anhydride copolymer. 3,462,516, 8-19-9, Cl. 260-887.
Minard, Everett S.; and Smith, Robert L.,3,421,555.
Pancoe, Edward G.; and Smith, Robert L.,3,451,146.
Smith, Robert V., to Phillips Petroleum Company. Downhole-burner apparatus. 3,456,721, 7-22-69, Cl. 166-59.
Smith, Robert W.: *See*—
Haen, Eugene P.; Skromme, Robert B.; and Smith, Robert W.,3,428,027.
Smith, Roberta W.,: *See*—
Tonjes, Burl D., 3,481,468.
Smith, Robert, to International Business Machines Corporation. Solid state AC coupling. 3,424,927, 1-28-69, Cl. 307-280.
Smith, Robin: *See*—
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry,3,431,697.
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry,3,442,990.
Smith, Roger M., to Caterpillar Tractor Company. Holddown force control for a scraper elevator. 3,466,764, 9-16-69, Cl. 37-8.
Smith, Rollin P.: *See*—
Lewis, William J.; and Smith, Rollin P.,3,484,195.
Smith, Ronald B.: *See*—
Finneran, James A.; Mayo, Hays C.; Multhaup Robert H.; and Smith, Ronald B.,3,441,393.
Smith, Ronald T.: *See*—
Coblentz, Wesley S.; Paddock, Paul F.; and Smith, Ronald T.,3,437,174.
Smith, Roscoe S.: *See*—
Swenson, Robert A.; and Smith, Roscoe S.,3,428,683.
Smith, Roy A. Ladder level. 3,447,631, 6-3-69, Cl. 182-108.
Smith, Roy B., to Reef-Baker Corporation. Meter assembly. 3,456,591, 7-22-69, Cl. 103-52.
Smith, Roy E., to Owens-Corning Fiberglas Corporation. Twisting fibrous strands. 3,423,922, 1-28-69, Cl. 57-35.
Smith, Roy E., to Packard Instrument Company, Inc. Sample transferring apparatus for radioactive samples. 3,450,881, 6-17-69, Cl. 250-106.
Smith, Roy E., to Owens-Corning Fiberglas Corporation. Twisting fibrous strands. 3,466,864, 9-16-69, Cl. 57-62.
Smith, Roy E.; and Gullett, Robert C., to Packard Instrument Company, Inc., mesne. Liquid scintillation counter having means for removing electrostatic charges on samples. 3,487,219, 12-30-69, Cl. 250-106.
Smith, Roy F.; and Kovar, Richard D., to Carrier Corporation. Refrigeration system defrost control. 3,461,681, 8-19-69, Cl. 62-81.
Smith, Roy K.: *See*—
Smith, Ansel M.; and Smith, Roy K.,3,421,764.
Smith, Roy R., Jr., to Smith, R. P. M., Corporation. Method for joining multiple layers of sheet material. 3,475,249, 10-28-69, Cl. 156-253.
Smith, Royal F.: *See*—
Albright, Henry J.; and Smith, Royal F.,3,460,661.
Loukes, David Gordon; and Smith, Roy,3,423,197.
Smith, Ruie N.: *See*—
Smith, Herbert L.; and Smith, Ruie N.,3,428,014.
Smith, Ruslon John, to Eureka-Carlisle Company. Labelling method and apparatus. 3,464,871, 9-2-69, Cl. 156-60.
Smith, Russell G., to Continental Manufacturing Company. Variable-flow plug and valve. 3,425,451, 2-4-69, Cl. 137-637.4
Smith, Russell G., to Continental Manufacturing Company. Flush valve. 3,442,490, 5-6-69, Cl. 251-317.
Smith, Russell G., to Continental Manufacturing Company. Tubing valve and method of manufacture. 3,462,119, 8-19-69, Cl. 251-309.
Smith, Russell G., to Xomox Corporation. Valve shank seal. 3,472,485, 10-14-69, Cl. 251-214.
Smith, Russell G.: *See*—
Reed, Charles L., Jr.; and Smith, Russell G.,3,472,254.
Smith, Russell R.; and Sonnemann, George, to United Aircraft Corporation. Electric plasma moving current collector. 3,479,471, 11-18-69, Cl. 191-45.
Smith, Russell T. System for multiple room air conditioning. 3,436,930, 4-8-69, Cl. 62-263.
Smith, Ruth A., 50% to Roger, Magruder & Hoyt. Head cover. 3,456,657, 7-22-69, Cl. 132-53.
Smith, S., & Sons (England) Limited: *See*—
Barlow, Boris Victorien, 3,447,852.
Smith, Samuel H. Apparatus for severing well casing in a submarine environment. 3,468,373, 9-23-69, Cl. 166-55.8
Smith, Samuel K.: *See*—
Cragon, Harvey G.; and Smith, Samuel K.,3,422,435.
Hubin, Allen J.; and Smith, Samuel,3,436,359.
Smith, Sidney. Vaporizer. 3,475,916, 11-4-69, Cl. 62-52.
Smith, Stancel G. Blade attachment for front end loader. 3,440,744, 4-29-69, Cl. 37-117.5
Smith, Stanley K.; and Ramstrom, Lee W., to Black and Decker Manufacturing Company, The. Gaging vane construction. 3,486,460, 12-30-69, Cl. 103-136.
Smith, Stanley W., to Leesona Corporation, mesne. Electrochemical cell having at least one non- consumable electrode comprising a porous metal support having internal voids sealed with a hydrophobic polymer. 3,444,004, 5-13-69, Cl. 136-120.
Smith, Stanley: *See*—
Shatas, William J.; and Smith, Stanley,3,430,170.
Smith, Steven R. Storage and display system. 3,452,878, 7-1-69, Cl. 211-41.
Smith, Stuart H., Jr. Superconductive power apparatus. 3,469,121, 9-23-69, Cl. 310-10.
Smith, T. J., & Nephew Limited: *See*—
Harbard, Edward H.; and Stephenson, Arthur R., 3,424,824.
Harbard, Edward H., 3,457,919.
Herniman, Peter Douglas; and Lickman, David Austin, 3,434,472.
Patchell, Albert George; Lloyd, Ronald; and Stephenson, Arthur Ripon, 3,441,638.
Smith, Ted, Aircraft Company, Inc.: *See*—
Smith, Theodore R.; and Reese, Richard G., 3,446,459.
Smith, Telford L.; Turner, Frank E.; and Smyk, Walter M., to Smith-Blair, Inc. Leak clamp for bell and spigot pipe joint. 3,469,852, 9-30-69, Cl. 277-101.
Smith, Tennyson, to North American Rockwell Corporation. Surface tension measuring instrument. 3,426,584, 2-11-69, Cl. 73-64.4
Smith, Terry W.: *See*—
Galan, Julian; and Smith, Terry W.,3,455,140.
Smith, Theodore E.; and Smith, Andrew H. Camper step construction. 3,462,170, 8-19-69, Cl. 280-166.
Smith, Theodore M. Protective enclosure and mount for radioactive elements. 3,449,575, 6-10-69, Cl. 250-106.
Smith, Theodore R.; and Reese, Richard G., to Smith, Ted, Aircraft Company, Inc. Nose gear steering system. 3,446,459, 5-27-69, Cl. 244-50.
Smith, Thomas F. Counterpoised supporting device. 3,433,444, 3-18-69, Cl. 248-279.
Smith, Thomas F. Electrical food serving unit. 3,459,922, 8-5-69, Cl. 219-433.
Smith, Thomas J.: *See*—
Roche, Peter J.; and Smith, Thomas J.,3,424,119.
Smith, Thomas R. Easel display assembly. 3,450,420, 6-17-69, Cl. 281-33.
Smith, Thomas R., to Maytag Company, The. Compact dryer apparatus. 3,471,940, 10-14-69, Cl. 34-133.
Smith, Thomas R., to Maytag Company, The. Impeller assembly for waste disposer apparatus. 3,486,701, 12-30-69, Cl. 241-46.08
Smith, Thomas W.: *See*—
Kariher, Donald H.; and Smith, Thomas W.,3,438,366.
Smith, Todd A.: *See*—
Houcke, George P.; and Smith, Todd A.,3,466,467.

Smith, Tom R., to American Air Filter Company, Inc. Pocket-type filter. 3,479,803, 11-25-69, Cl. 55-500.
Smith, Vernon C.; and Hinton, Everett H., Jr., to Burlington Industries, Inc. Textile fabric coated with a high molecular weight methylpolysiloxane elastomer polymer. 3,434,875, 3-25-69, Cl. 117-139.4
Smith, Vernon J.; and Webster, Charles R., to Dow Chemical Company, The. Method and apparatus for additive feeding. 3,477,698, 11-11-69, Cl. 259-25.
Smith, Vernon O., to Overhead Door Corporation. Door latch assembly. 3,439,948, 4-22-69, Cl. 292-216.
Smith, Ving. Collapsible article of furniture including an inflatable member. 3,420,574, 1-7-69, Cl. 297-456.
Smith, Ving. Expandable building structure. 3,462,891, 8-26-69, Cl. 52-18.
Smith, Ving. Ceiling installation. 3,466,830, 9-16-69, Cl. 52-495.
Smith, W. C.: *See—*
Russell, Edward J., 3,456,404.
Smith, Walter E. Inclined guitar body. 3,426,638, 2-11-69, Cl. 84-291.
Smith, Walter H. Dental rest for jaws in an open bite position. 3,483,619, 12-16-69, Cl. 32-40.
Smith, Walter J.; and Parker, Rienzi B., to Johnson Service Company, mesne. Humidity sensing element. 3,434,348, 3-25-69, Cl. 73-337.
Smith, Walter W., to United States of America, Air Force. Analog-to-digital converter. 3,425,051, 1-28-69, Cl. 340-347.
Smith, Walter W.; Longacher, Kenneth E.; and Zollar, Herbert H., to Shenango Furnace Company, The. Method of and apparatus for making centrifugal castings with integral heads. 3,430,681, 3-4-69, Cl. 164-111.
Smith, Wanda: *See—*
Sietmann, Vernon H., 3,479,748.
Smith, Ward C.; and Souza, Raymond L., to Corning Glass Works. Glass electrode structure. 3,485,740, 12-23-69, Cl. 204-195.
Smith, Ward Harris, to Birko Chemical Corporation. Treatment of animal by-products. 3,475,179, 10-28-69, Cl. 99-107.
Smith, Warner M. Strap buckle. 3,429,012, 2-25-69, Cl. 24-191.
Smith, Warren H. Method of treating a filter bed. 3,429,808, 2-25-69, Cl. 210-35.
Smith, Wayne E.: *See—*
Anspon, Harry D.; and Smith, Wayne E.,3,424,714.
Smith, Wayne E.; Alwani, Dru W.; and Anspon, Harry D., to Gulf Oil Corporation. Cross-linked polymers of lactonized poly (methyl propenol/methacrylic acid, and method of preparing by applying heat. 3,420,798, 1-7-69, Cl. 260-67.
Smith, Wayne E.; Anspon, Harry D.; Ham, George E., Jr.; and Alwani, Dru W., to Gulf Oil Corporation. Partially lactonized polymers of poly-(methyl propenol/methacrylic acids). 3,474,062, 10-21-69, Cl. 260-30.4
Smith, Wayne E.; Mantell, Gerald J.; and Chapin, Earl C., to Gulf Oil Corporation. Coating compositions comprising drying oil acid esters of styrene-acrolein copolymer-polymer reaction products. 3,449,277, 6-10-69, Cl. 260-23.
Smith, Wayne L., to Owens-Corning Fiberglas Corporation. Acoustical panels. 3,448,823, 6-10-69, Cl. 181-33.
Smith, Werter Pierce, to Minnesota Mining and Manufacturing Company. Tape roll and method of making the roll. 3,433,355, 3-18-69, Cl. 206-59.
Smith, Wesley A., to Tilt-A-Door Corporation. Bi-fold door with standard components. 3,442,318, 5-6-69, Cl. 160-193.
Smith, Willard C., to Pasco Packing Company. Grapple. 3,478,906, 11-18-69, Cl. 214-304.
Smith, Willfred F. Inflated elastic footwear. 3,423,852, 1-28-69, Cl. 36-7.5
Smith, William A.: *See—*
Lane, George A.; and Smith, William A.,3,471,345.
Lane, George A.; Smith, William A.; and Van Wert, Ralph B.,3,475,237.
Smith, William C., to Rader Pneumatics & Engineering Co., Ltd. Conveyor pipe re-entrainment apparatus. 3,425,749, 2-4-69, Cl. 302-64.
Smith, William C.; and Free, David, to Rader Pneumatics & Engineering Co., Ltd. Waste incineration process. 3,478,707, 11-18-69, Cl. 110-8.
Smith, William C.: *See—*
Martin, Francis W.; and Smith, William C.,3,424,568.
Smith, William E., to Buensod-Stacey Corporation. Air conditioning. 3,425,443, 2-4-69, Cl. 137-512.15
Smith, William E., to Owens-Illinois, Inc. Thermally crystallizable glasses, crystallized product and method of making same. 3,473,936, 10-21-69, Cl. 106-39.
Smith, William E., to Owens-Illinois, Inc. Surface treatment of crystalline glass ceramic. 3,486,963, 12-30-69, Cl. 161-6.
Smith, William E.; and Neumann, Fred W., to Dow Chemical Company, The. Regeneration of phenol from bisphenol A and byproducts. 3,466,337, 9-9-69, Cl. 260-621.
Smith, William Eric Mortimore, to Evans, J., & Son (Portsmouth) Limited. Apparatus for feeding wire or metal strip. 3,466,660, 9-9-69, Cl. 226-160.
Smith, William F.: *See—*
Roberts, Joseph P., 3,447,797.
Smith, William F., to Dow Chemical Company, The. Process of blending thermoplastic polymers with bitumens. 3,484,507, 12-16-69, Cl. 264-40.
Smith, William F.: *See—*
Ingwalson, Raymond W.; Smith, William F.; and Wright, James O.,3,478,092.
Smith, William H.; Whitley, Daniel M.; and Eaton, Edgar P., Jr., to Ducommun Incorporated, and Carbon Corporation. Anisotropic continuous casting mold. 3,435,881, 4-1-69, Cl. 164-283.
Smith, William H.: *See—*
Marson, George J.; and Smith, William H.,3,483,880.
Willgrubs, Theodore M.; Smith, William H.; and Learmont, Tom,3,425,574.
Smith, William L., to Davol Inc. Abdominal suction drainage tube. 3,426,759, 2-11-69, Cl. 128-350.
Smith, William Novis, Jr.: *See—*
Beumel, Oscar F., Jr.; Smith, William Novis, Jr.; and Harris, Robert F.,3,460,919.
Smith, William Novis, Jr., to Foote Mineral Company. Method of making T-butyllithium. 3,420,903, 1-7-69, Cl. 260-665.
Smith, William Novis, Jr., to Foote Mineral Company. Method for preparing lithium peroxide. 3,446,588, 5-27-69, Cl. 23-184.
Smith, William P.: *See—*
Mahon, John V.; Smith, William P.; and Whipperman, Ronald L.,3,486,682.
Smith, William R., to Upjohn Company, The. Cross-contamination prevention device. 3,476,088, 11-4-69, Cl. 119-72.5
Smith, William R., to Upjohn Company, The. Animal actuated drinking valve. 3,486,735, 12-30-69, Cl. 251-303.
Smith, William S., Jr.: *See—*
Noshay, Allen; and Smith, William S., Jr.,3,424,716.
Smith, William V., to International Business Machines Corporation. Optical cavity electro-optic scanning device. 3,439,975, 4-22-69, Cl. 350-150.
Smith, William W.: *See—*
Gallo, Jules R.; Smith, William W.; and Boissevain, Mathew G.,3,448,870.
Smith, William W., to General Electric Company. Electric circuit breaker with overcurrent and ground fault protection. 3,440,579, 4-22-69, Cl. 335-18.
Smith, Willis R.: *See—*
Frielinghaus, Klaus H.; and Smith, Willis R.,3,449,729.
Smith, Willis R.; Frielinghaus, Klaus H.; and Wetmore, Arthur W., to General Signal Corporation. Code communication system. 3,449,717, 6-10-69, Cl. 340-146.1
Smith, Winston: *See—*
Barrow, Marvin A., 3,422,865.
Smith-Berger Manufacturing Corporation: *See—*
Oates, Norford L.; and Karr, Robert I., 3,456,287.
Oates, Norford L., 3,469,278.
Smith-Blair, Inc.: *See—*
Smith, Telford L.; Turner, Frank E.; and Smyk, Walter M., 3,469,852.
Turner, Frank E., 3,432,188.
Smith-Schreyer & Assoc., Inc.: *See—*
Smith, Donald J., 3,440,595.
Smithe, F. L., Machine Co., Inc.: *See—*
Stovall, Milton A., 3,431,830.
Treff, Ernest H., 3,424,454.
Smithe, F. L., Machine Company, Inc.: *See—*
Stovall, Milton, 3,465,626.
Smitherman, Thomas L., to Texaco Inc. Noise analysis for seismic system. 3,470,530, 9-30-69, Cl. 340-15.5
Smithers, James P.; and Hafstad, Millard J., to Armour and Company. Apparatus for collecting flexible strands. 3,465,491, 9-9-69, Cl. 53-116.
Smithers, John A.; and Murray, William A. Bandage wrap. 3,480,012, 11-25-69, Cl. 128-165.
Smithgall, Harry E., to Sylvania Electric Products, Inc. Light attenuation means. 3,448,667, 6-10-69, Cl. 95-1.
Smiths Industries Limited: *See—*
Anderson, Edward William, 3,426,431.
Griffin, Brian William; and Simons, William Richard, 3,469,458.
Pearce, George, 3,460,062.
Shelley, John Henry, 3,430,119.
Smith's, John E., Sons Co.:*See—*
Schaller, Harold E., 3,486,649.
Smithson, David John: *See—*
Foure, Francois Maurice Spire; and Smithson, David John,3,430,210.
Foure, Francois Maurice Spire; and Smithson, David John,3,430,211.
Smithyman, Charles, to Poto, Richard O. Lubricators. 3,458,010, 7-29-69, Cl. 184-6.
Smitka, Wolfgang, to International Standard Electric Corporation. Direct current summing circuit with compensating means. 3,454,879, 7-8-69, Cl. 324-117.

Smits, Marius: *See—*
Laubmeyer, Gunther; and Smits, Marius,3,486,948.
Smits, Paul: *See—*
Cooke, William Ernest; Smits, Paul; and Cote, Jacques Francois,3,471,375.
Smitzer, Louis A.; Gawin, Adolph J.; Rempala, Chester S.; and Zis, Jerome C., to Bell & Howell Company. Article controlled rotary endorser. 3,438,323, 4-15-69, Cl. 101-233.
Smitzer, Louis A.; and Porazinski, Robert F., to Bell & Howell Company. Low cost microfiche reader. 3,442,581, 5-6-69, Cl. 353-27.
Smitzer, Louis A.; Tyler, Len A.; Hines, Walter; and Bixby, William E., to Bell & Howell Company. Continuous rotary electrostatographic apparatus. 3,442,585, 5-6-69, Cl. 355-3.
Smitzer, Louis A.; and Yohana, Andrew I., to Bell & Howell Company. Microfilm reader device. 3,475,091, 10-28-69, Cl. 353-78.
Smitzer, Louis A.: *See—*
Gross, Maynard C.; Gawin, Adolph J.; and Smitzer, Louis A.,3,446,552.
Smizaski, Frank; and Kirkowski, Stan. Reaction sinker. 3,465,465, 9-9-69, Cl. 43-42.72
Smock, George E., to Owens-Corning Fiberglas Corporation. Rotary apparatus for advancing strand-like products. 3,485,610, 12-23-69, Cl. 65-9.
Smoke, Edward J.: *See—*
Fleischner, Peter L.; and Smoke, Edward J.,3,480,452.
Smola, Carl W., to Versatube Corporation. Flexible tube forming machine. 3,457,749, 7-29-69, Cl. 72-50.
Smolen, Sam Robert, to Marotta Valve Corporation. Valve seats for high pressure valves. 3,456,915, 7-22-69, Cl. 251-282.
Smolen, Sam Robert. Corrosion protective device for storage battery terminals. 3,457,120, 7-22-69, Cl. 136-181.
Smolin, Edwin M.: *See—*
Geble, Paul H.; Smolin, Edwin M.; Wang, Tze Seng; and Volgstadt, Frank R.,3,457,219.
Smolin, William: *See—*
Siegart, William R.; Peropoulos, Peter C.; Jones, Ronald E.; and Smolin, William,3,470,251.
Smolka, Thomas G.; and Schweizer, Gottfried, to Wiener Metallwarenfabrik Smolka & Co. Ski binding. 3,469,857, 9-30-69, Cl. 280-11.35
Smollinger, Carl W.; and Overdurf, John Clyde, Jr., to Bethlehem Steel Corporation. Adjustable quill head and interlocked wire rope made therewith. 3,446,000, 5-27-69, Cl. 57-138.
Smolski, Andrzej. Method of drying ceramic products. 3,456,358, 7-22-69, Cl. 34-37.
Smolski, Andrzej. Tunnel drier for drying ceramic products. 3,456,359, 7-22-69, Cl. 34-40.
Smolski, Ludwik, to Polcon Corporation. Liquid treatment apparatus and method. 3,452,966, 7-1-69, Cl. 261-77.
Smookler, Arthur L.; and Gruber, Floyd E. Partially balanced flexible pipe joint. 3,479,061, 11-18-69, Cl. 285-94.
Smoot, Charles Richard, to Du Pont de Nemours, E. I., and Company. Process for incorporating photostabilizers in polyvinyl butyral sheeting. 3,450,552, 6-17-69, Cl. 117-16.
Smoot, Edgar J., 1/2 to Smoot, Robert A. Traffic control signals. 3,466,600, 9-9-69, Cl. 340-43.
Smoot, Perry R., to United States of America, Army. Collapsible crystal structure. 3,457,658, 7-29-69, Cl. 35-18.
Smoot, Robert A.: *See—*
Smoot, Edgar J., 3,466,600.
Smoot, Thomas W.: *See—*
Cope, Gerald R.; Smoot, Thomas W.; and Renkey, Albert L.,3,429,486.
Cobaugh, George D.; Smoot, Thomas William; and Cobaugh, George D.,3,449,084.
Smoothie Products, Inc.: *See—*
Bulow, William N., 3,473,540.
Smorenburg, Johannes J., to Gebr. Stork & Co's Apparatenfabriek N.V. Installation for plucking poultry. 3,483,589, 12-16-69, Cl. 17-11.1
Smorgasphere, Ltd.: *See—*
Wulfe, Donald H., 3,437,057.
Smout, Adrianus D.: *See—*
La Heij, Gerardus E.; Waterman, Jacques A.; and Smout, Adrianus D.,3,485,895.
Smrdel, Joseph A.: *See—*
Allen, Edward M.; Dye, Cloyde G.; and Smrdel, Joseph A.,3,477,562.
Smrekar, Larry F. Collet mechanism. 3,434,730, 3-25-69, Cl. 279-4.
Smrekar, Larry F. Collet mechanism. 3,451,314, 6-24-69, Cl. 91-422.
Smrt, Thomas J. Marking device. 3,485,206, 12-23-69, Cl. 118-305.
Smulders, August Hendrik Maria, to N.V. Werf Gusto v/h Firma A. F. Smulders. Relatively vertically displaceable body and column. 3,484,911, 12-23-69, Cl. 24-263.
Smulders, Robert. Floating device for loading or unloading a ship in open water. 3,440,671, 4-29-69, Cl. 9-8.
Smull, Eugene R., to Vesuvius Crucible Company. Ladle stopper head assembly. 3,462,121, 8-19-69, Cl. 251-357.
Smulowitz, Joseph; and Steinberg, Samuel, to Ramlink Holdings (Proprietary) Limited. Electrical terminals havings means to facilitate the quick connection of an insulated conductor thereto. 3,427,553, 2-11-69, Cl. 339-97.
Smutny, Edgar J.: *See—*
Chung, Harold; Dewhirst, Kenneth C.; and Smutny, Edgar J.,3,444,202.
De Acetis, William; and Smutny, Edgar J.,3,432,465.
Smutny, Edgar J., to Shell Oil Company. Thioacrylic derivatives. 3,444,163, 5-13-69, Cl. 260-240.
Smuts, I. Robert: *See—*
Chesnut, William R.; and Smuts, I. Robert,3,467,334.
Smyers, Robert D.: *See—*
Paper, Roland K.; and Smyers, Robert D.,3,438,380.
Smyk, Walter M.: *See—*
Smith, Telford L.; Turner, Frank E.; and Smyk, Walter M.,3,469,852.
Smylie, Fred R.: *See—*
Terkel, Mike; Rose, Sheldon M.; and Smylie, Fred R.,3,486,534.
Smyth, Donald M., to Sprague Electric Company. Donor ion modified $BaTiO_3$ capacitor and process. 3,426,249, 2-4-69, Cl. 317-230.
Smyth, Frederick J., to Singer-General Precision Inc. Character recognition apparatus having signal enhancing means. 3,423,730, 1-21-69, Cl. 340-146.3
Smyth, Henry Lyall Ross, to Canadian Patents and Development Limited. Coulometer. 3,431,481, 3-4-69, Cl. 320-48.
Smyth Manufacturing Company, The: *See—*
Thorp, James H., 3,420,723.
Thorp, James H., 3,438,075.
Thorp, James H., 3,469,270.
Smyth, Murray G., Jr.: *See—*
Maass, Alfred R.; Smyth, Murray G., Jr.; and Ullyot, Glenn E.,3,449,496.
Smyth, Ralston B.: *See—*
Smyth, Robert R.; Smyth, William B.; and Smyth, Ralston B.,3,478,851.
Smyth, Robert R., to Technical Operations Incorporated. Electrical inverters. 3,424,973, 1-28-69, Cl. 321-45.
Smyth, Robert R.; Smyth, William B.; and Smyth, Ralston B., said Smyth, Ralston B., assor of 4/10 each to said Smyth, Robert R., and said Smyth, William B., and 2/10 to Lahive, John A., Jr., mesne. Automotive transmission. 3,478,851, 11-18-69, Cl. 192-3.5
Smyth, William B.: *See—*
Smyth, Robert R.; Smyth, William B.; and Smyth, Ralston B.,3,478,851.
Smythe, Bruce M.: *See—*
Gagolski, Julian; and Smythe, Bruce M.,3,469,989.
Smythe, Bruce; and Staker, Robert. Refining and recrystallizing of sugars using aqueous alcohols. 3,454,425, 7-8-69, Cl. 127-64.
Smythe, Frederic H., Jr., to United States Time Corporation, The. Adjustable horological balance bridge. 3,483,693, 12-16-69, Cl. 58-107.
Smythe, Richard E.: *See—*
Dart, Rodger W.; and Smythe, Richard E.,3,439,773.
Smythe, William J.: *See—*
Bilichniansky, Theodore; Isreeli, Jack; and Smythe, William J.,3,425,357.
Isreeli, Jack; Smythe, William J.; and Larrabee, Edward W.,3,481,708.
Smythe, William J., to Technician Corporation. Dialyzer assembling means. 3,425,560, 2-4-69, Cl. 210-232.
Smythe, William J., to Technicon Corporation. Method and apparatus for the dilution and division of a stream of samples for continuous analysis. 3,435,684, 4-1-69, Cl. 73-423.
Smythe, William J.; and Shamos, Morris H., to Technicon Corporation. Method and apparatus for analysis. 3,479,141, 11-18-69, Cl. 23-230.
Smythe, William J.; and Shamos, Morris H., to Technicon Corporation. Automatic analysis method and apparatus. 3,484,170, 12-16-69, Cl. 356-181.
Smythe, William J.; Shamos, Morris H.; and Griffin, Gary A., to Technion Corporation. Method and apparatus for the colorimetric analysis of liquid samples. 3,480,369, 11-25-69, Cl. 356-201.
Snabb, Avron A.; and Goodwin, Ralph C., to Bemis Company, Inc. Bag. 3,456,868, 7-22-69, Cl. 229-66.
Snaidman, Samuel: *See—*
Bartlett, George F.; and Snaidman, Samuel,3,445,204.
Snam Progetti S.p.A.: *See—*
Di Cio, Alessandro; and Mauri, Marcello Massi, 3,450,776.
Marconi, Walter; Mzaaei, Alessandro; de Malde', Marcello; and Cucinella, Salvatore, 3,432,516.
Taramasso, Marco; and Zerilli, Luigi, 3,443,359.
SNAM S.p.A.: *See—*
Guadalupi, Mario, 3,470,247.
Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo, 3,464,959.
Marconi, Walter; Cesca, Sebastiano; and Arrighetti, Sergio, 3,467,639.

Marconi, Walter; Mazzei, Alessandro; and Lugli, Gabriele, 3,468,867.
Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo, 3,470,138.
Marconi, Walter, 3,476,734.
Mazzei, Alesandro; Lugli, Gabriele; and Marconi, Walter, 3,463,766.
Notari, Bruno; and Manara, Giovanni, 3,424,697.

Snap-On Tools Corporation: *See—*
Larson, Kenneth R., 3,456,485.
Larson, Kenneth R., 3,475,953.

Snaper, Alvin A. Electrolytic image transducer. 3,439,174, 4-15-69, Cl. 250-213.

Snaper, Alvin A. Electro-optical device with concentric arrangement of layers. 3,445,666, 5-20-69, Cl. 250-211.

Snaplite Displays, Inc.: *See—*
Coad, Terrence M., 3,447,253.

Snapp, Chester O. Cleaning implement. 3,469,274, 9-30-69, Cl. 15-228.

Snare, Ronald C., to Bell Telephone Laboratories, Incorporated. Current driver organization. 3,479,521, 11-18-69, Cl. 307-88.

Snarr, James L., to Picker Corporation. Processor. 3,477,357, 11-11-69, Cl. 95-94.

Snavely, Benjamin B., to Eastman Kodak Company. Thermally coupled image amplifier using internal feedback. 3,479,515, 11-18-69, Cl. 250-213.

Snavely, Cloyd A.: *See—*
Goldberger, William M.; Reed, Allan K.; and Snavely, Cloyd A.,3,448,234.

Snavely, Donald D., to Robertson, H. H., Company. Apparatus for raising and lowering cover plates. 3,442,399, 5-6-69, Cl. 214-1.

Snead, Charles D.: *See—*
Teter, Robert M., Jr.; Addleburg, John W.; Rouse, Benjamin P., Jr.; and Snead, Charles D.,3,442,744.

Sneddon, Louis L., to Mason & Hanger-Silas Mason Co., Inc. 3,475,055, 10-28-69, Cl.

Snedeker, Herbert Elmer. Building construction. 3,449,875, 6-17-69, Cl. 52-227.

Snedeker, Leo W., Jr. Teaching by sound application. 3,453,749, 7-8-69, Cl. 35-35.

Snedeker, Marion L., to Leece-Neville Company, The. Transient protection for semiconductor device. 3,437,879, 4-8-69, Cl. 317-31.

Snedeker, Robert H., to Union Carbide Corporation. Polyhydroxyethers stabilized with organic phosphites. 3,449,292, 6-10-69, Cl. 260-45.7

Snee, William H., Jr.: *See—*
Lemper, Herbert; and Snee, William H., Jr.,3,453,914.

Sneed, John B. Freestanding container. 3,435,982, 4-1-69, Cl. 220-70.

Sneeden, Ralph J., to United States of America, National Aeronautics and Space Administration. Gas turbine combustion apparatus. 3,433,015, 3-18-69, Cl. 60-39.36

Sneen, Franz. Hydraulic annular piston motors. 3,444,788, 5-20-69, Cl. 92-120.

Sneen, Franz. Oscillating fluid-driven actuator. 3,446,120, 5-27-69, Cl. 92-120.

Snell, Robert B.; and Freeman, Charles R., to Minnesota Mining and Manufacturing Company. Electrical insulating tape prepared from an ethylene-propylene copolymer composition. 3,470,127, 9-30-69, Cl. 260-33.6

Snelling, Charles D., to Minnesota Mining and Manufacturing Company. Control device. 3,433,929, 3-18-69, Cl. 219-363.

Snelling, Charles D. Flexible fire resistant air duct. 3,434,502, 3-25-69, Cl. 138-129.

Snellings, Albion K.: *See—*
Stoll, Robert F.; and Snellings, Albion K.,3,436,103.

Snellman, Donald L.; and Keeler, Jack Daniel, to Norfin, Inc. Collator receiver bin shift mechanism. 3,420,517, 1-7-69, Cl. 270-58.

Snepvangers, Hannah K.: *See—*
Snepvangers, Rene C.,3,423,850.

Snepvangers, Rene C., deceased0 (by Snepvangers, Hannah K., administratrix). Automated teaching apparatus. 3,423,850, 1-28-69, Cl. 35-35.

Snetselaar, William. Yard and garden tool. 3,481,519, 12-2-69, Cl. 224-49.

Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A.: *See—*
Corradi, Demetrio; and Pasin, Alberto, 3,463,616.

Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa: *See—*
Debenedetti, Emilio; and Tappi, Vittorio, 3,485,663.
Matsui, Masao; and Tokura, Susumu, 3,425,107.
Matsui, Masao; and Nakamori, Tsuyoshi, 3,459,846.
Matsui, Masao; and Tokura, Susumu, 3,471,605.
Matsui, Masao, 3,480,996.

Snia Viscosa Societa Nazionale Industria Applicazione Viscosa S.p.A.: *See—*
Nicita, Domenico, 3,436,798.

Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A.: *See—*
Nicita, Domenico; Parmeggiani, Paolo; Perazzoni, Pierluigi; and Giacobone, Piero, 3,448,186.
Pasin, Alberto; and Coppola, Girolamo, 3,472,827.
Siclari, Francesco; and Fulmini, Sergio, 3,469,618.
Ueda, Keizo; Nagata, Koetsu; Fujita, Kentaro; and Iwamoto, Kazukiyo, 3,425,091.
Ueda, Keizo; Ando, Satoshi; and Kinoshita, Tetsuo, 3,463,847.

Snibbe, Paul. Kite construction. 3,468,503, 9-23-69, Cl. 244-153.

Snider, Harold F., to Therm-O-Disc, Incorporated, mesne. Terminal structure for thermostats and the like. 3,437,774, 4-8-69, Cl. 200-166.

Snider, Ivan W.: *See—*
Douglas, Harold Roy; and Snider, Ivan W.,3,428,420.

Snider, William Hartford. Stringed musical instrument with resonant diaphragm. 3,457,820, 7-29-69, Cl. 84-296.

Snider, Yash R.: *See—*
Allen, Simon D.; and Snider, Yash R.,3,486,966.

Sniderman, Mayer J.: *See—*
Ceyba, George A., 3,438,548.

Snilloc Corporation: *See—*
Collins, Oliver Davis, 3,430,735.

Snitzer, Elias: *See—*
Koester, Charles J.; and Snitzer, Elias,3,421,097.
Koester, Charles J.; and Snitzer, Elias,3,484,714.
Koester, Charles J.; Dixon, Edgar O.; and Snitzer, Elias,3,445,785.
Swope, Charles Hermas; Snitzer, Elias; and Koester, Charles J.,3,453,036.

Snitzer, Elias, to American Optical Corporation, mesne. Diaphragm tuning of gas laser. 3,426,293, 2-4-69, Cl. 331-94.5

Snitzer, Elias, to American Optical Company. Fiber laser device provided with long flexible energy-directing probe-like structure. 3,471,215, 10-7-69, Cl. 350-96.

Snitzer, Elias; Bazinet, Wilfred P., Jr.; and Hwalek, David C., to American Optical Corporation, mesne. Method of making optical couplers. 3,455,667, 7-15-69, Cl. 65-4.

Snitzer, Elias; Young, Robert W.; and Woodcock, Richard F., to American Optical Company, mesne. Glass laserable material. 3,422,025, 1-14-69, Cl. 252-301.6

Snively, Howard D., to General Electric Company. Combined cast risers and involuted equalizers. 3,445,703, 5-20-69, Cl. 310-204.

Snoberger, Philip H.; and Russell, William J., to International Business Machines Corporation. Protection means for sensing and preventing an overheated condition of electrical coil means or the like. 3,422,313, 1-14-69, Cl. 317-13.

Snoddy, Lowell G. Grip measurement gauge for bowling balls. 3,429,049, 2-25-69, Cl. 33-174.

Snodgrass, Earl D.: *See—*
Fuller, Ralph A.; and Snodgrass, Earl D.,3,475,877.
Fuller, Ralph A.; and Snodgrass, Earl D.,3,476,023.

Snodgrass, Frank E.: *See—*
Joo, Louis A.; and Snodgrass, Frank E.,3,423,300.

Snodgrass, Harold F. Boat trailer. 3,438,524, 4-15-69, Cl. 214-505.

Snodgrass, Herschel R.: *See—*
Compton, Dinsdale M. J.; and Snodgrass, Herschel R.,3,436,152.

Snodgrass, Herschel R., to Gulf General Atomic Incorporated, mesne. Seismic prospecting. 3,472,334, 10-14-69, Cl. 181-0.5

Snodgrass, James D. Recording system. 3,478,202, 11-11-69, Cl. 246-107.

Snook, Alvin W., to Gleason Works, The. Gear cutting machine with intermittent indexing mechanism. 3,440,927, 4-29-69, Cl. 90-5.

Snook, Russell A., to University of California, The Regents of the. Canopy support device for harvesters. 3,455,311, 7-15-69, Cl. 135-5.

Snover, John A., to Metal Hydrides, Incorporated. Preparation of lithium borohydride. 3,423,192, 1-21-69, Cl. 23-364.

Snow, Barton H., to General Electric Company. Sequettial tester for interpin impedances including resistor-diode combination standards. 3,458,806, 7-29-69, Cl. 324-73.

Snow, Barton H.; and Borel, Ronald F., to General Electric Company. Control systems for axial flow compressors particularly adapted for use in gas turbine engines. 3,472,027, 10-14-69, Cl. 60-236.

Snow, Conley H., to Brooks & Perkins, Incorporated. Lock tester for aircraft cargo handling system. 3,425,269, 2-4-69, Cl. 73-88.

Snow, Conley H., to Brooks & Perkins, Incorporated. Pallet positioner for aircraft cargo handling system. 3,456,919, 7-22-69, Cl. 254-95.

Snow, Edward H., to Fairchild Camera and Instrument Corporation. Variable threshold insulated gate field effect device. 3,428,875, 2-18-69, Cl. 317-235.

Snow Equipment Industries, Inc.: *See—*
Klapprodt, Glen, 3,484,962.

Snow, Frederick O., III, to Hewitt-Robins Incorporated. Rotary elevator. 3,470,999, 10-7-69, Cl. 198-103.

Snow, Frederick O., III: *See—*
Martini, Douglas H.; Snow, Frederick O., III; and Vander Laan, Richard W.,3,455,467.
Snow, Gerald A.: *See—*
Howarth, Walter H.; Snow, Gerald A.; and Doughty, Harold A.,3,458,108.
Snow, Harold F., to Borden, Inc. Peeling fruits and vegetables. 3,460,595, 8-12-69, Cl. 146-231.
Snow, Henry R., to Batchelder-Rubico, Inc. Method and article of shoe manufacture. 3,423,854, 1-28-69, Cl. 36-11.
Snow, Henry R.; and Rubico, Jerome A., to Stetson Shoe, and Batchelder-Rubico, Inc. Method for shrink wrapping shoes in process. 3,419,929, 1-7-69, Cl. 12-142.
Snow, Imogene V. Skirt hanger. 3,448,903, 6-10-69, Cl. 223-96.
Snow, John Douglas, to Clear Hooters Limited. Nozzle for a heating or ventilating system. 3,420,448, 1-7-69, Cl. 239-569.
Snow, Karl S., to Titanium Metals Corporation of America. Melting furnace. 3,429,564, 2-25-69, Cl. 266-33.
Snow, Karl S., to Allegheny Ludlum Steel Corporation. Electroslag melting. 3,469,968, 9-30-69, Cl. 75-10.
Snow, Randolph Bernard: *See—*
Wallace, John Watson; and Snow, Randolph Bernard,3,424,298.
Snow, Richard H., to Boxboard Research and Development Association. Method and apparatus for web drying. 3,477,138, 11-11-69, Cl. 34-23.
Snow, Richard R., to Libbey-Owens-Ford Company. Sulfur trioxide glass surface treatment process. 3,473,908, 10-21-69, Cl. 65-99.
Snow, Richard W.; and Wilt, Chester C., to Eastman Kodak Company. Electrolytic process and apparatus for recovering metals. 3,477,926, 11-11-69, Cl. 204-109.
Snow, Roland B., to United States Steel Corporation. Oxidation resistant sulphur bearing steel containing chromium and aluminum. 3,484,236, 12-16-69, Cl. 75-124.
Snow, Tommy L.: *See—*
Dunlap, Wayne A.; Milberger, Lionel J.; and Snow, Tommy L.,3,461,717.
Snowden, Thomas M. Body panel flange bending air hammer attachment. 3,442,114, 5-6-69, Cl. 72-465.
Snowdon, Arthur E., to Superior Electric Company, The. Electric stepping motor with a pair of rotor cages and stators. 3,466,476, 9-9-69, Cl. 310-49.
Snozzi, Candido: *See—*
Nomine, Gerard; Bucourt, Robert; Pierdet, Andre; and Snozzi, Candido,3,444,297.
Snyder, Anna D. E. External wearable urinal and rectal pouch device. 3,447,536, 6-3-69, Cl. 128-283.
Snyder, Benjamin N.: *See—*
Beveridge, Thomas R.; and Snyder, Benjamin N.,3,460,573.
Snyder, Carl J., to Westinghouse Electric Corporation. Multiple-track magnetic pulse recording of related quantities. 3,470,470, 9-30-69, Cl. 324-141.
Snyder, Carl R.; and Binelli, Walter D., to Philco-Ford Corporation. Cryogenically cooled electro-optical apparatus. 3,445,786, 5-20-69, Cl. 331-94.5
Snyder, Clifford H., Jr., to SRM Company. Threaded fluid coupling. 3,446,245, 5-27-69, Cl. 137-614.03
Snyder Corporation: *See—*
Gajda, Leo P.; and Hevonkoski, Frank A., 3,427,907.
Snyder, Daniel J.: *See—*
Grotheer, Morris P.; Cook, Edward H.; and Snyder, Daniel J.,3,458,411.
Snyder, Donald J., to Radio Corporation of America. Automatic stereo switching and indicating circuit. 3,423,536, 1-21-69, Cl. 179-15.
Snyder Donald: *See—*
Gajewski, Henry M.; Harrison, Robert R.; and Snyder Donald,3,456,965.
Snyder, George D., to Chrysler Corporation. Magnetically operated signal switch for hydraulic brake system. 3,450,853, 6-17-69, Cl. 200-82.
Snyder, George H. Transmission construction. 3,451,285, 6-24-69, Cl. 74-364.
Snyder, Glenn M., to Landis Tool Company. Control means for magnetic face plates. 3,432,972, 3-18-69, Cl. 51-103.
Snyder, Glenn M., to Landis Tool Company. Precision production grinder. 3,447,270, 6-3-69, Cl. 51-165.
Snyder, H. Kent, Jr., to Chicago Display Company. Pole sign. 3,479,760, 11-25-69, Cl. 40-145.
Snyder, Harold I. Packaging machine. 3,461,645, 8-19-69, Cl. 53-112.
Snyder, Harry R., Jr., to Norwich Pharmacal Company, The. 1-(5-Nitrofurfurylideneamino)-3-nitroso-2- imidazolidinone. 3,485,830, 12-23-69, Cl. 260-240.
Snyder, Harvey: *See—*
Alexeff, Alexander V.; and Snyder, Harvey,3,467,292.
Snyder, Irving F.: *See—*
Cornelius, Richard T.; and Snyder, Irving F.,3,435,985.
Snyder, James B.; Lont, John D.; and Lont, George M. Marking projectile and method of use. 3,429,263, 2-25-69, Cl. 102-92.7
Snyder, Joe W. Bed wetting alarm and trainer. 3,441,019, 4-29-69, Cl. 128-138.
Snyder, John C., to Hercules Incorporated. Preparation of metal hydrides. 3,485,585, 12-23-69, Cl. 23-204.
Snyder, John D., to Du Pont de Nemours, E. I., and Company. Process for forming a polyethylene/polypropylene laminate. 3,481,804, 12-2-69, Cl. 156-82.
Snyder, John G., to Susquehanna Corporation, The. Munition dispenser. 3,481,246, 12-2-69, Cl. 89-1.5
Snyder, John L. III,, to Texas Instruments, Incorporated. Prism system comprising joined pentaprisms. 3,424,516, 1-28-69, Cl. 350-286.
Snyder, John L.: *See—*
Legge, Norman R.; and Snyder, John L.,3,459,830.
Martin, Jon W.; Snyder, John L.; and Himes, Glenn R.,3,473,240.
Snyder, John M., to Commercial Carpet Corporation. Magnet holder for centering pin. 3,449,834, 6-17-69, Cl. 33-27.
Snyder, John M., to Commercial Carpet Corporation. Circle cutter and protective cover. 3,456,346, 7-22-69, Cl. 30-310.
Snyder, Joseph J.: *See—*
Secrist, Harry E.; and Snyder, Joseph J.,3,429,386.
Snyder, Larry L.; and Snyder, Mervin G. Process of molding a tank. 3,461,009, 8-12-69, Cl. 156-69.
Snyder, Mervin G.: *See—*
Snyder, Larry L.; and Snyder, Mervin G.,3,461,009.
Snyder, Michael D.: *See—*
Guyon, Andre J.; Jones, Derek; and Snyder, Michael D.,3,439,960.
Snyder, Milton J.; Lipinsky, Edward S.; and Burch, Joseph E., to Fats and Proteins Research Foundation, Inc., mesne. Coating for siliceous materials. 3,424,598, 1-28-69, Cl. 106-2.
Snyder, Nate H.: *See—*
Vincent, Robert E.; Collins, Charles G.; Snyder, Nate H.; and West, Frank B.,3,458,404.
Snyder, Peter J. Universal spindle coupling and the like. 3,469,416, 9-30-69, Cl. 64-7.
Snyder, Richard C.: *See—*
Suvada, Steve L.; and Snyder, Richard C.,3,429,089.
Snyder, Richard L. Memory with cores threaded by single conductors. 3,432,823, 3-11-69, Cl. 340-174.
Snyder, Richard L., to United States of America, Atomic Energy Commission. Mechanically settable magnetic register. 3,447,144, 5-27-69, Cl. 340-174.1
Snyder, Richard L. Oriented magnetic memory cores. 3,465,306, 9-2-69, Cl. 340-174.
Snyder, Richard N. Electromagnetic attenuated detonating system. 3,421,440, 1-14-69, Cl. 102-70.2
Snyder, Robert A.: *See—*
Neal, Frank; and Snyder, Robert A.,3,460,823.
Neal, Frank; and Snyder, Robert A.,3,477,709.
Snyder, Robert B.; and Petersen, Arne J., to Beckman Instruments, Inc. Electrode assembly. 3,476,672, 11-4-69, Cl. 204-195.
Snyder, Robert Raymond, to Bliss, E. W., Company Electran Manufacturing Company. Electromagnetic load relay having an insulated barrier between contacts. 3,436,697, 4-1-69, Cl. 331-115.
Snyder, Stanley F., to Aro Corporation, The. Lead screw machine tool. 3,460,172, 8-12-69, Cl. 10-129.
Snyder, Travis C. Vapor compression distillation of chemically treated degassed saline water. 3,461,041, 8-12-69, Cl. 203-7.
Soars, Harold M., Jr.: *See—*
Shook, Raymond E., Jr.; and Soars, Harold M., Jr.,3,473,745.
Sobeck, Harold R., to North American Rockwell Corporation. Cyclone separator having substantially centrally located openings for lowering the pressure drop across the cyclone. 3,448,563, 6-10-69, Cl. 55-347.
Sobek, Dale W.; and Giacomelli, David B., to Polymir Industries, Inc. Protective shock resistant package for fragile objects. 3,435,946, 4-1-69, Cl. 206-46.
Sobel, Andrew H.: *See—*
Sobel, Nathan; and Sobel, Andrew H.,3,447,254.
Sobel, Ilyitch J.; and Didyk, Witalij, to Zenith Radio Corporation. Miniature ceramic microphone. 3,439,128, 4-15-69, Cl. 179-107.
Sobel Industries Inc.: *See—*
Jonas, Walter; and Pfund, Adolf, 3,435,988.
Sobel, Leonard H. Comb adapted for retaining an insert. 3,465,760, 9-9-69, Cl. 132-147.
Sobel Metal Products Inc.: *See—*
Jonas, Walter M., 3,448,464.
Sobel, Nathan; and Sobel, Andrew H. Collapsible fishing rod. 3,447,254, 6-3-69, Cl. 43-18.
Sobel, Sol; and Kaplitt, Martin J. Gas endarterectomy needle. 3,481,338, 12-2-69, Cl. 128-303.
Sobell, Richard S.: *See—*
Flinn, Richard A.; Sobell, Richard S.; Swigar, Andrew A.; and Walde, Robert A.,3,425,844.
Sobieski, James F.; and Zerner, Michael C., to United States of America, Army. Mixture for rapid polymerization. 3,464,960, 9-2-69, Cl. 260-80.3

Sobin, George: *See—*
Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L.,3,451,724.
Sobkow, William: *See—*
Bertelson, Peter C.; and Sobkow, William,3,428,362.
Soble, Richard M.: *See—*
John J.; and Soble, Richard M.,3,430,134.
Soboczenski, Edward J., to Du Pont de Nemours, E. I., and Company. Control of undesirable vegetation. 3,436,207, 4-1-69, Cl. 71-92.
Sobolev, Igor, to Shell Oil Company. Cationic hydroxy-containing polymers, preparation and use. 3,428,617, 2-18-69, Cl. 260-89.5
Sobolev, Igor, to ITT Rayonier Incorporated. Graft polymerization of acrylic acid-ester mixtures to cellulose. 3,457,198, 7-22-69, Cl. 260-2.2
Sobotka, Walter: *See—*
Arnaud, Jacques; Sobotka, Walter; and Desbrueres, Maurice,3,432,776.
Sobotka, Walter, to CSF-Compagnie Generale de Telegraphie Sans Fil. Meander-type wave delay lines. 3,484,725, 12-16-69, Cl. 333-31.
Sobotta, Reinhard, to Rollei-Werke Franke & Heidecke. Slide changer drive for projectors. 3,434,360, 3-25-69, Cl. 74-112.
Sobotta, Werner, to Vereinigte Flugtechnische Werke G.m.b.H. Regulating arrangement for aircraft. 3,443,777, 5-13-69, Cl. 244-77.
Sobrefina S.A.: *See—*
Hellborg, Lars Ingvar, 3,479,726.
Ignell, Rolf Lennart, 3,484,518.
Rausing, Anders Ruben; and Ignell, Rolf Lennart, 3,468,224.
Soc. Acc. Emanuel di G. e R. Emanuel & C.: *See—*
Emanuel, Giovanni; and Zucca, Carlo, 3,432,870.
Soc. F.A.T.A. S.R.L.: *See—*
Di Rosa, Gaetano, 3,474,738.
DiRosa, Gaetano, 3,472,177.
Soc. per Azioni Fratelli Borletti: *See—*
Moro, Antonio, 3,428,009.
Moro, Antonio, 3,453,581.
Moro, Antonio, 3,468,270.
Sochor, Cestmir, to Ceskoslovenska akademie ved. Method for treating eluate from a chromatographic column. 3,463,615, 8-26-69, Cl. 23-230.
Sochting, Franz, to Enfo Entwicklungs- und Forschungs-Aktiengesellschaft. Automatic valve. 3,456,684, 7-22-69, Cl. 137-543.17
Sochting, Herbert, to Hoerbiger Ventilwerke Aktiengesellschaft. Control slide valve. 3,429,341, 2-25-69, Cl. 137-625.68
Societa Applicazioni Gomma Antivibranti SAGA S.p.A.: *See—*
Boschi, Antonio, 3,427,935.
Morini, Emilio, 3,459,004.
Societa Ceramica Italiana Richard-Ginou S.p.A.: *See—*
Margola, Gianni B., 3,425,396.
Societa Civile Auguil: *See—*
Nau, Pierre P. G., 3,444,185.
Societa Edison: *See—*
Ribaldone, Giuseppe; Smai, Franco; and Garbuglio, Carmine, 3,458,292.
Societa Farmaceutici Italia: *See—*
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo, 3,420,844.
Arcamone, Federico; Penco, Sergio; and Nicolella, Vincenzo, 3,420,845.
Bernardi, Luigi; Coda, Severina; Pegrassi, Lorenzo; and Suchowsky, Giselbert Karl, 3,427,313.
Bernardi, Luigi; Bosisio, Germano; de Castiglione, Roberto; and Goffredo, Onofrio, 3,472,832.
Bianchi, Maria Luisa; Franceschi, Giovanni; Marnati, Maria Pia; and Spalla, Celestino, 3,467,579.
Carletti, Luciano; and Rigamonti, Alessandro, 3,480,468.
Consonni, Alberto; Patelli, Bianca; and Sciaky, Roberto, 3,462,423.
Consonni, Alberto; Pallini, Ugo; and Sciaky, Roberto, 3,480,623.
Cotta, Ernesto; Grein, Arpad; and Spalla, Celestino, 3,454,469.
Franceschi, Giovanni; and Arcamone, Federico, 3,468,931.
Palamidessi, Giorgio; Verini, Maria Antonietta; and Fioretti, Armanda, 3,472,849.
Sciaky, Roberto; and Mancini, Franco, 3,446,823.
Societa Internazionale Fonovisione S.p.A.: *See—*
Bottani, Angelo, 3,447,865.
King, Faye H., 3,447,537.
Societa Italiana Impianti-Societa per Azioni: *See—*
Pere, Carlo, 3,434,705.
Pere, Carlo, 3,484,088.
Societa Italiana Resine S.p.A.: *See—*
Ackermann, Jacob; and Radici, Pierino, 3,459,709.
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi, 3,459,807.
Aglietti, Giancarlo; Baratella, Pietro; Reni, Cesare; and Lugo, Luigi, 3,464,931.
Aglietti, Giancarlo; and Canavesi, Roberto, 3,478,121.
Barilli, Filippo; Di Fiore, Lucio; and Reni, Cesare, 3,454,645.
Costa, Roberto Maria; and Codignola, Franco, 3,449,485.
Gaspari, Raffaele, 3,458,174.
Lugo, Luigi; and Reni, Cesare, 3,458,479.
Reni, Cesare; and Lugo, Luigi, 3,431,199.
Societa Italiana Telecommunicazioni Siemens S.p.A.: *See—*
Dal Monte, Giorgio; and Callegari, Luciano, 3,430,003.
Ferrari, Agostino; Callegari, Luciano; and Rivetta, Gianfranco, 3,476,886.
Giorgetti, Francesco, 3,426,288.
Lyghounis, Evangelo, 3,421,089.
Pozzetti, Mario, 3,428,906.
Sarati, Luigi, 3,421,145.
Societa-Italiana Resine S.p.A.: *See—*
Ackermann, Jakob, 3,436,423.
Societe a Responsabilite Limitee: Filatures et Tissages F. & Th. Frey: *See—*
Doll, Edouard, 3,434,274.
Societe a Responsabilite Limitee: Societe Lamy d'Etudes et de Recherches 'Soler':*See—*
Chaveneaud, Roger; and Janoska, Georges, 3,444,340.
Janoska, Georges, 3,427,411.
Societe Alsacienne de Constructions Mecaniques de Mulhouse: *See—*
Halleux, Hubert; and Masurel, Michel, 3,421,186.
Juillard, Yves, 3,439,715.
Societe Alsacienne d'Etudes et de Travaux (Socaltra):*See—*
Gaboriaud, Paul L. F., 3,480,850.
Societe A.M.O.: *See—*
Foulet, Francois, 3,464,100.
Societe Anglo-Belge Vulcain S.A.: *See—*
Molle, Raoul Desire Joseph; and Durrands, Kenneth James, 3,442,759.
Societe Anonyme Anciens Etablissements Walton & Place: *See—*
Avot, Jean-Pierre, 3,432,372.
Societe Anonyme Andre Citroen: *See—*
Brueder, Antoine, 3,424,275.
Cadiou, Jean, 3,438,152.
Cadiou, Jean G., 3,421,487.
Cadiou, Jean G., 3,439,955.
Cadiou, Jean Georges, 3,421,606.
Cadiou, Jean Georges, 3,445,122.
Cadiou, Jean Georges, 3,461,530.
Cadiou, Jean Georges, 3,486,203.
Cadiou, Jean Georges, 3,486,802.
Henry-Biabaud, Edmond, 3,422,939.
Henry-Biabaud, Edmond, 3,423,159.
Henry-Biabaud, Edmond, 3,426,612.
Henry-Biabaud, Edmond, 3,432,008.
Henry-Biabaud, Edmond, 3,436,127.
Henry-Biabaud, Edmond, 3,437,348.
Henry-Biabaud, Edmond, 3,444,690.
Henry-Biabaud, Edmond, 3,444,852.
Henry-Biabaud, Edmond, 3,456,759.
Henry-Biabaud, Edmond, 3,458,961.
Henry-Biabaud, Edmond, 3,460,643.
Henry-Biabaud, Edmond, 3,460,650.
Henry-Biabaud, Edmond, 3,461,743.
Henry-Biabaud, Edmond, 3,464,205.
Henry-Biabaud, Edmond, 3,465,613.
Henry-Biabaud, Edmond, 3,465,856.
Henry-Biabaud, Edmond, 3,467,406.
Henry-Biabaud, Edmond, 3,473,621.
Henry-Biabaud, Edmond, 3,477,473.
Henry-Biabaud, Edmond J. G., 3,442,561.
Henry-Biabaud, Edmone, 3,424,502.
Societe Anonyme Antar Petroles de l'Atlantique:*See—*
Roche, Henri; and Billot De Goldlin , Alain, 3,464,923.
Societe Anonyme Automobiles Citoen: *See—*
Henry-Biabaud, Edmond, 3,468,581.
Societe Anonyme Automobiles Citroen: *See—*
Henry-Biabaud, Edmond, 3,451,691.
Societe Anonyme: Balcar: *See—*
Pichard, Marc Roger, 3,462,591.
Societe Anonyme D.B.A.: *See—*
Heimler, Andre, 3,478,538.
Marouby, Guy, 3,461,447.
Rivolier, Charles, 3,444,649.
Toulier, Pierre, 3,486,385.
Societe Anonyme de Machines Electrostatiques: *See—*
Fraser, Reginald Percy, 3,421,693.
Societe Anonyme de Telecommunications: *See—*
Bezerie, Jean Pierre, 3,435,235.
Truffert, Alain Philippe, 3,427,459.
Turck, Jean Paul, 3,478,212.
Societe Anonyme de Vehicules Industriels et d'Equipements Mecaniques Saviem:*See—*
Labat, Pierre, 3,431,791.
Labat, Pierre, 3,470,759.
Societe Anonyme des Ancien Etablissements Albaret: *See—*
Paramythioti, Jean Michel, 3,434,557.

Societe Anonyme des Ateliers d'Aviation Louis Breguet:*See*—
Pierrat, Jean, 3,455,630.
Societe Anonyme des Ateliers de Aviation Louis Breguet: *See*—
Pierrat, Jean, 3,440,610.
Societe Anonyme des Ateliers de Secheron: *See*—
Rudaz, Albi, 3,463,903.
Societe Anonyme des Automobiles Simca: *See*—
Agostini, Antoine, 3,457,780.
Brasseur, Jacques, 3,433,036.
Brasseur, Jacques Marc, 3,433,519.
Brasseur, Jacques, 3,476,375.
Cauvin, Andre, 3,451,839.
Piret, Jean, 3,433,474.
Piret, Jean, 3,434,283.
Societe Anonyme des Etabblissements Leon Hatot: *See*—
Dietsch, Jacques Jean Gustave, 3,474,270.
Societe Anonyme des Forges de la Providence: *See*—
Ledune, Jacques; and Nilles, Paul, 3,423,202.
Ledune, Jacques; and Nilles, Gaul, 3,476,550.
Societe Anonyme des Laboratoires Robert & Carriere: *See*—
Sabathie, Michel; and Foures, Guy, 3,439,299.
Societe Anonyme des Laboratories Robert et Caniere: *See*—
Carron, Maurice Claude Ernest; and Jullien, Alexandra F., 3,422,086.
Societe Anonyme des Usines Chausson: *See*—
Plegat, Alain Edouard, 3,422,777.
Societe anonyme dite: Auxilec: *See*—
O'Mahony, Gerard M. P. L., 3,468,193.
Societe Anonyme dite: Auxitra: *See*—
Pitaval, Maurice, 3,451,150.
Societe Anonyme dite: Bronzavia: *See*—
Malczewski, Jeremie, 3,483,711.
Societe Anonyme dite Compagnie Des Freins et Signaux Westinghouse: *See*—
Lebrun, Michel; and Gester, Marcel, 3,444,524.
Martin, Gerard, 3,421,018.
Martin, Gerard, 3,422,284.
Martin, Gerard, 3,428,825.
Societe Anonyme dite: Compagnie Oliver: *See*—
Guillemin-Tarayre, Pierre, 3,424,840.
Societe Anonyme dite: Cri-Dan: *See*—
Renoux, Pierre Edouard, 3,420,126.
Societe anonyme dite Etablissements Bauche (Coffres-forts Bauche et Nicolle et Cie): *See*—
Serret, Robert G. C., 3,434,326.
Societe Anonyme dite: L. Oreal: *See*—
Goyet, Daniel; and Gratiot, Jacques, 3,430,798.
Societe Anonyme dite: Laboratoires U.P.S.A.: *See*—
Hoffmann, Charles; and Faure, Andree, 3,446,799.
Societe Anonyme dite: L'Oreal:*See*—
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques, 3,442,895.
Bugaut, Andree; Kalopissis, Gregoire; and Bertrand, Jacques, 3,467,483.
Kalopissis, Gregoire; Bertrand, Jack; and Bugaut, Andree, 3,442,599.
Kalopissis, Gregoire; Zviak, Charles; and Viout, Andre, 3,472,820.
Kalopissis, Gregoire; and Aretos, Constantin, 3,484,417.
Societe Anonyme dite: Messier: *See*—
Lucien, Rene, 3,474,313.
Societe Anonyme dite: Messier: *See*—
Lucien, Rene, 3,474,313.
Societe Anonyme dite: Orsymonde: *See*—
Lafon, Louis, 3,449,503.
Societe Anonyme dite Richier: *See*—
Fauchere, Jean, 3,421,389.
Societe Anonyme dite: Societe Industrielle Pour la Fabrication des Antibiotiques (S.I.F.A.): *See*—
Boissier, Jacques Robert; and Ratouis, Roger, 3,422,106.
Boissier, Jacques Robert; and Combes, Georges Andre, 3,459,854.
Societe Anonyme dite Societe Textile Saint-Antoine et Textile Hal luinois S.A.: *See*—
Derudder, Gerard; and Derudder, Rodolphe, 3,444,680.
Societe Anonyme dite: Tissmetal, Lionel-Dupont, Teste & Cie: *See*—
Sicard, Louis; and Daumard, Claude, 3,466;151.
Societe anonyme dite: Vallourec: *See*—
Duret, Jean Louis Albert, 3,468,563.
Verdickt, Jacques Joseph, 3,465,563.
Societe Anonyme dite: Vallourec, Usines a Tubes de Lorraine-Escaut et Vallourec Reunies: *See*—
Madrelle, Alexandre, 3,467,413.
Societe Anonyme Dupont: *See*—
Cassan, Michel, 3,439,994.
Societe Anonyme Elpalux: *See*—
Jarret, Jean; and Jarret, Jacques, 3,481,417.
Societe Anonyme: Entreprise Bourdin & Chausse: *See*—
Bourdin, Jean Sylvain; and Mayet, Pierre Ernest, 3,444,727.
Societe Anonyme Etablissements Rally: *See*—
Bizouard, Rene E., 3,472,513.
Societe Anonyme Financiere & Auxiliaire du Textile: *See*—
Andrault, Francois Paul, 3,430,589.
Societe Anonyme Francaise de Constructions Industrielles d'Isolation Isolfeu:*See*—
Lamy, Jacques E.; and Gris, Pierre A., 3,432,062.
Societe Anonyme Francaise du Ferodo: *See*—
Fieni, Walter, 3,450,197.
Fieni, Walter, 3,478,821.
Fieni, Walter, 3,485,473.
Lepelletier, Pierre Andre Georges, 3,434,572.
Lepelletier, Pierre Andre Georges, 3,437,179.
Lepelletier, Pierre Andre Georges, 3,459,281.
Lepelletier, Pierre Andre Georges, 3,474,690.
Lepelletier, Pierre Andre Georges, 3,481,433.
Maurice, Jean, 3,422,940.
Maurice, Jean, 3,425,521.
Maurice, Jean, 3,437,183.
Maurice, Jean, 3,481,141.
Societe Anonyme France-Ecrans: *See*—
Chaplais, Henri; Pillon, Lucien; Carre, Georges P.; Rips, Lucien; and Gambette, Rene, 3,423,152.
Societe Anonyme Generale Alimentaire (GASA): *See*—
Recas, Francis, 3,446,136.
Recas, Francis, 3,486,469.
Societe Anonyme: Glaenzer Spicer: *See*—
Orain, Michel, 3,442,096.
Societe Anonyme: Groupement Atomique Alsacienne Atlantique (G.A.A.A.): *See*—
Chameroy, Jean, 3,464,927.
Societe Anonyme: Groupement Atomique Alsacienne Atlantiques (G.A.A.A.): *See*—
Pinault, Jacques Gilbert; Lallet, Jean Paul; and Carbonnel, Henri Amedee Basile, 3,435,145.
Societe Anonyme Heurtey: *See*—
Bloch, Claude; Gosse, Gerard; and Tamalet, Michel, 3,470,397.
Guingand, Jean Raymond, 3,424,444.
Guingand, Jean Raymond, 3,439,907.
Guingand, Jean Raymond, 3,453,875.
Prevost, Robert, 3,429,331.
Tamalet, Michel, 3,477,703.
Societe Anonyme: Les Ateliers Reunis Broyeurs Forplex: *See*—
Hippert, Pierre Raoul, 3,423,034.
Societe anonyme: les Condensateurs Sic-Safco: *See*—
Chesnot, Bernard F. G., 3,427,195.
Societe Anonyme, Messier: *See*—
Lucien, Rene, 3,432,124.
Societe Anonyme Outinord: *See*—
Blonde, Guy, 3,473,778.
Societe Anonyme Peltex: *See*—
Collez, Louis, 3,464,779.
Societe Anonyme Plastus: *See*—
Kraffe de Laubarede, Leonce Marie Henri, 3,476,095.
Societe Anonyme Poclain: *See*—
Guinot, Gabriel, 3,481,640.
Guinot, Gabriel L., 3,422,917.
Guinot, Gabriel L., 3,439,579.
Guinot, Gabriel L., 3,451,151.
Guinot, Gabriel L., 3,465,843.
Guinot, Gabriel L., 3,470,973.
Guinot, Gabriel L., 3,484,005.
Societe Anonyme Schostal: *See*—
Schaming, Guillaume, 3,451,298.
Societe Anonyme: Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique 'Alcatel':*See*—
Belloc, Pierre Auguste Marcel, 3,422,018.
Belloc, Pierre Auguste Marcel, 3,437,597.
Bernelin, Bernard Marcel; Frindel, Sebastien; and Benezech, Claude, 3,468,072.
Fabri, Jean; Friberg, Jean Marie Eugene; Maginot, Pierre Henri Jean; Merigoux, Jean Marie; and Siestrunck, Raymond, 3,447,740.
Leger, Pierre, Andre Marcel, 3,487,424.
Mignot, Noel Henri Marie; and Stahl, Andre Robert Raymond, 3,467,841.
Mongodin, Guy Emile; and Moncozet, Jean Joseph, 3,459,228.
Munier, Marie-Therese Louise Jeanne, 3,454,459.
Societe Anonyme: Societe Auxiliaire des Producteurs: *See*—
Drivet, Jean Auguste Prosper, 3,459,263.
Societe Anonyme: Societe Lorraine de Laminage Coutinu: *See*—
Musse, Jean-Pierre; and Allard, Andre, 3,456,760.
Societe Anonyme: Societe Technique d'Entreprises Chemiques:*See*—
Poincet, Francois Xavier; Pourcher, Henri Marie Rene; and Jourdain, Philippe Andre, 3,486,327.
Societe Anonyme Societer: *See*—
Balligand, Emile, 3,468,378.
Societe Anonyme Vallourec: *See*—
Avril, Jean, 3,439,453.
Societe Anonyme Wean-Damiron: *See*—
Bergez, Andre, 3,471,142.

Societe Aria: *See—*
Bonnet, Andre, 3,480,142.
Societe Belge de l'Azote et des Produits Chimiques de Marly, S.A.:*See—*
Binon, Fernand; and Goldenberg, Charles, 3,452,052.
Binon, Fernand; Ziegler, Herbert; and Marr, Claude, 3,462,485.
Riga, Jean Joseph, 3,462,243.
Riga, Jean Joseph, 3,472,620.
Societe Bertin & Cie: *See—*
Bertin, Jean H., 3,478,835.
Duthion, Louis; Hafenscher, Michel Serge Daniel; and Cabassut, Andre Emile Roger, 3,436,020.
Pavlin, Cyrille F., 3,456,665.
Societe C A L O R Appareils Electro Domestiques: *See—*
Planel, Claude, 3,483,876.
Societe Chimique de la Grande Paroisse, Azote et Produits Chimiques: *See—*
Devaux, Adrien; and Aubin, Gerard, 3,473,892.
Societe Chimique des Charbonnages: *See—*
Sueur, Rene, 3,476,775.
Societe Chimique, Routiere et d'Entreprise Generale:*See—*
Ceintrey, Marcel, 3,420,277.
Societe Civile de Recherche Pharmaceutique et Therapeutique: *See—*
Masquelier, Jacques, 3,436,407.
Societe Civile d'Etudes de Centrifugation:*See—*
Babel, Louis; and Peytavin, Pierre, 3,430,684.
Societe Civile d'Etudes et de Brevets 'INOR':*See—*
Ingrassia, Sauveur; and Orsini, Jean, 3,472,669.
Societe Civile dite N.G.T.: *See—*
Goetgheluck, Remi, 3,471,601.
Societe Clover: *See—*
Pegon, Pierre, 3,443,743.
Societe d' Optique, Precision, Electronique et Mecanique:*See—*
Rodier, Christian, 3,438,316.
Societe d'Applications Generales d'Electricite et de Mecanique:*See—*
Claret, Rene Jean-Baptiste, 3,471,936.
Sourgens, Roger P., 3,422,221.
Sourgens, Roger P., 3,439,327.
Sourgens, Roger P., 3,484,745.
Societe de Chaudronnerie et de Montage Tissot & Cie: *See—*
Cerneau, Pierre, 3,441,191.
Societe de Construction d'Appareils pour Gaz a l'Eau & Gaz Industriels:*See—*
Decaux, Jacques E., 3,476,519.
Societe de Construction d'Appareils pour Gaz a l'Eau:*See—*
Gargominy, Andre Pierre, 3,475,135.
Societe de Constructions Electromecaniques Jeumont-Schneider: *See—*
Teszner, Stanislas, 3,439,192.
Teszner, Stanislas, 3,465,216.
Societe de Constructions Mecaniques de Creil: *See—*
Gaudin, Jean, 3,468,494.
Societe de Fabrication d'Instruments de Mesure (S.F.I.M.):*See—*
Oger, Rene, 3,446,081.
Preti, Jean Claude, 3,423,753.
Preti, Jean Claude, 3,457,546.
Societe de la Viscose Suisse: *See—*
Marek, Bruno S. V.; and Gneisz, Josef, 3,423,284.
Specker, Hugo; and Mohrle, Dietrich, 3,436,450.
Societe de l'Acumulateur Fulmen:*See—*
Rowe, Robert, 3,438,818.
Societe de Prospection Electrique Schlumberger S.A.: *See—*
Grimaldi, Pierre, 3,433,070.
Henry, Louis, 3,426,865.
Lahaye, Raymond; and Bonnet, Jean-Loup, 3,455,157.
Tocanne, Jean Louis, 3,437,924.
Vezin, Andre Marcel, 3,423,671.
Societe de Recherches et d'Exploitation d' Inventions Guillotin:*See—*
Guillotin, Jean, 3,483,685.
Societe de Recherches Techniques et Industrielles (S.R.T.I.): *See—*
Agneray, Louis; Bruni, Maurice; and Clayer, Arlette, 3,482,881.
Barnabe, Jean-Louis; Callies, Dominique; and Cornier, Jean-Claude, 3,421,628.
Societe de Tricolage Aube et Marne: *See—*
Bellot, Jacques, 3,434,309.
Societe d'Electro-Chimie d'Electro- Metallurgie et des Acieries Electriques d'Ugine:*See—*
Tcherkawsky, Claude, 3,432,401.
Societe d'Electro-Chimie, des Acieries Electrigues d'Ugine:*See—*
Weiss, Francis; and Bensa, Rena, 3,423,432.
Societe d'Electronique et d'Automatisme:*See—*
Dreyfus, Bertrand Alain, 3,436,254.
Gloess, Paul Francois Marie, 3,441,722.
Gloess, Paul Francois Marie, 3,443,075.
Henry-Baudot, Jacques, 3,450,919.
Katsuki, Kenichiro; Kawakami, Hiroshi; and Tatsumi, Juichi, 3,470,289.
Societe des Accumulateurs Fixes et de Traction (Societe Anonyme): *See—*
Amiet, Bernard Paul Louis, 3,434,884.
Armbruster, Jean-Claude, 3,464,549.
Deschamps, Robert Marcel, 3,428,495.
Doll, Jean Henri; and Druesne, Henri Desire, 3,463,671.
du Plessix, Michel Guy Marie Jochaud, 3,451,850.
Herold, Rodolphe Andre, 3,463,995.
Jammet, Jean Firmin, 3,433,681.
Jammet, Jean Firmin, 3,443,084.
Jammet, Jean Firmin, 3,463,669.
Scholler, Jean-Pierre Alphonse, 3,454,781.
Stanimirovitch, Douchan, 3,451,851.
Weilnbock, Karl, 3,424,618.
Societe des Aciers Fins de l'Est:*See—*
de Coye de Castelet, Gaetan, 3,465,811.
Societe des Ciments Francais: *See—*
Coiffu, Pierre, 3,447,791.
Societe des Ciments Portland de Saint-Maurice, S.A.: *See—*
Dionisotti, Jean; and Boehler, Philippe, 3,442,496.
Societe des Entreprises Boussiron: *See—*
Esquillan, Nicolas; and Houdin, Henri, 3,466,878.
Societe des Forges et Ateliers du Creusot: *See—*
Boisseau, Lucien, 3,421,757.
Nectoux, Andre, 3,424,102.
Nectoux, Andre, 3,430,781.
Porcherot, Marcel, 3,442,326.
Societe des Generateurs Jarret (Societe Anonyme): *See—*
Monpetit, Louis; and Huber, Robert, 3,443,111.
Societe des Lunetiers Cottet, Poichet, Temkine & Cie: *See—*
Cretin Maitenaz, Bernard, 3,454,331.
Levillain, Jacques; and Bardonnet, Pierre, 3,452,484.
Societe des Mecaniques Verdol: *See—*
Fumat, Joseph, 3,468,347.
Servillat, Gabriel, 3,480,044.
Societe des Poudres Metalliques et des Alliages Speciaux Ugine-Carbone: *See—*
Kieffer, Richard, 3,463,621.
Societe des Procedes Modernes d'Injection Sopromi:*See—*
Bassot, Jacques; and Monpetit, Louis, 3,433,207.
Bassot, Jacques; and Monpetit, Louis, 3,435,809.
Bassot, Jacques; and Monpetit, Louis, 3,456,628.
Huber, Robert, 3,460,520.
Huber, Robert, 3,464,627.
Huber, Robert, 3,481,542.
Societe des Procedes Modernes d'Injection Sopromi Societe Anonyme, de Nationalite Francaise:*See—*
Bassot, Jacques; and Monpetit, Louis, 3,465,730.
Bassot, Jacques; and Monpetit, Louis, 3,465,731.
Societe des Usines Chimiques Rhone-Poulenc: *See—*
Uzu, Keizo; Takahira, Hiroshi; Kato, Hiromasa; Sugiyama, Noriyuki; Haneda, Tomotsune; and Ishii, Sumihiro, 3,424,743.
Societe d'Etude de Constructions et de Travaux S.E.C.T.R.A.:*See—*
Quentin, Lucien, 3,482,005.
Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara 'S.E.G.A.N.S.':*See—*
Lamy, Jacques E.; and Gris, Pierre A., 3,432,062.
Lamy, Jacques Edouard, 3,431,740.
Lamy, Jacques Edouard, 3,466,881.
Societe d'Etude et d'Application des Techniques Nouvelles:*See—*
Honore, Etienne A. H.; and Torcheux, Emile L. G., 3,434,143.
Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture:*See—*
Juillard, Jacques; and Alleton, Jean Claude, 3,425,939.
Kircher, Rene, 3,434,880.
Sediey, Michel, 3,462,241.
Societe d'Etudes de Machines Speciales:*See—*
Armelin, Edouard Roger; and Plaskett, Arthur Frederick George, 3,452,943.
Armelin, Edouard Roger; and Plaskett, Arthur Frederick George, 3,468,203.
Breacker, Edward A.; and Armelin, Edouard R., 3,443,769.
Breacker, Edward A., 3,460,773.
Breacker, Edward Albert; and Armelin, Edouard, 3,421,709.
Breacker, Edward Albert; and Armelin, Edouard R., 3,430,880.
Chambon, Louis Jean, 3,424,084.
Societe d'Etudes de Machines Speciales Societe Anonyme:*See—*
Chambon, Louis Jean, 3,436,791.
Societe d'Etudes de Machines Thermiques:*See—*
Gallois, Jacques, 3,455,587.
Societe d'Etudes de Produits Chimiques:*See—*
Leroi, Eugene; Beaufour, Albert; and Beaufour, Gerald, 3,462,437.
Societe d'Etudes et de Participations Couquelet:*See—*
Couquelet, Dieudonne-Marie, 3,462,255.
Societe d'Etudes et de Recherches Magnetiques (Sermag):*See—*
Coroller, Pierre, 3,459,980.
Societe d'Etudes pour le Traitement et l'Utilisation des Eaux (S.E.T.U.D.E.):*See—*
Gomella, Cyril, 3,446,357.

Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France:*See*—
Pitel, Guy, 3,476,588.
Thominet, Michel Leon; and Engelhardt, Edward L., 3,423,512.
Societe d'Etudes Techniques et d'Enterpriese Generales:*See*—
Laplume, Jacques, 3,467,962.
Societe d'Etudes Verrieres Appliquees (S.E.V.A.):*See*—
Bernard, Rene G., 3,467,398.
Societe d'Exploitation des Materiels Hispano-Suiza:*See*—
Lapierre, Maurice, 3,440,139.
Marcheron, Claude Louis Edouard, 3,456,907.
Marcheron, Claude Louis Edouard, 3,481,563.
Marcheron, Claude Louis Edouard, 3,481,564.
Marcheron, Claude Louis Edouard, 3,481,565.
Plotkowiak, Joseph, 3,470,624.
Societe d'Exploitation des Procedes Paulve:*See*—
Paulve, Marcel Luc Amede, 3,452,325.
Societe d'Exploitation des Roulements Roultex:*See*—
Kastner, Rene Louis, 3,476,453.
Societe d'Exploitation et de Recherches de Machines et Appareils Specialises ERMAP:*See*—
Carter, Roland Charles Elie, 3,425,530.
Societe d'Instrumentation Schlumberger:*See*—
Charbonnier, Roger; and Picot, Clement, 3,427,868.
Charbonnier, Roger, 3,439,180.
Charbonnier, Roger; and Estrabaud, Stephane, 3,480,949.
Societe Dite Jaz S.A.: *See*—
Fillod, Rene; Lallement, Gerard; and Oudet, Claude, 3,460,396.
Societe dite: Photomaton G.C.: *See*—
Le Bey, Henri, 3,474,717.
Societe dite: Projecteurs Cibie: *See*—
Alphen, Jacques, 3,426,246.
Societe dite Promat: *See*—
Cloup, Francis J. G., 3,427,518.
Societe d'Optique, Precision, Electronique et Mecanique:*See*—
Baton, Jean Pierre; and Llop, Helenio, 3,477,790.
Societe du Carburateur Zenith: *See*—
Simonet, Jocelyn Elie Louis, 3,439,658.
Societe Europeenne d'Isolateurs en Verne Sediver:*See*—
Kaczerginski, Alexandre, 3,468,740.
Societe Europenne de Materiels Speciaux: *See*—
Gaffard, Jean Paul, 3,482,448.
Societe Financiere et Industrielle de Chemin de Fer: *See*—
Dufourmantel, Marius Georges, 3,421,636.
Societe Fives Lille Cail: *See*—
Dambrine, Francis; and Giorgi, Jean Claude, 3,450,263.
Societe Fives Lille-Cail: *See*—
Dambrine, Francis, 3,443,549.
Societe Flaminaire Marcel Quercia: *See*—
Quercia, Marcel, 3,432,072.
Quercia, Marcel, 3,464,578.
Societe Francaise d' Equipements pour la Navigation Aerienne:*See*—
Chombard, Pierre Andre, 3,435,918.
Societe Francaise de Construction de Bennes Automatiques Benoto: *See*—
Guinoiseau, Henri, 3,466,768.
Societe Francaise du Pneu Englebert: *See*—
Devienne, Andre, 3,435,875.
Mirtain, Henri; and Devienne, Andre, 3,435,874.
Mirtain, Henri, 3,442,315.
Societe Franco-Hispano-Americaine Francispam: *See*—
Hocq, Robert R., 3,484,825.
Newman, Stanley Herbert, 3,464,777.
Societe F.R.B.: *See*—
Raymond, Francois Henri, 3,434,101.
Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM): *See*—
Broniewski, Bodhan; and Warszawski, Bernard, 3,467,024.
Burnier, Pierre Henri; and Wolfhugel, Andre Edouard, 3,471,726.
Societe Generale de Constructions Electriques et Macaniques (ALSTHOM): *See*—
Carrasse, Jean Marie Pierre, 3,467,842.
Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM): *See*—
Cousin, Maurice; Klein, Robert; Loiselet, Yves; and Sonet, Gilbert, 3,456,125.
de Pradenne, Henri Vayson, 3,442,846.
Societe Generale de Recherches et d!Applications Scientifiques Sogeras: *See*—
Montandraud, Jean, 3,424,839.
Societe Generale des Produits Refractaires: *See*—
Crignon, Jacques; and Delcoustal, Jean, 3,469,721.
Kiehl, Jean-Pierre, 3,427,367.
Societe Generale d'Exploitations Industrielles (S.O.G.E.I.):*See*—
Lacroix, Roger; and Magnas, Jean Pierre, 3,486,978.
Societe Generale d'Optique:*See*—
Samuel, Francois F., 3,475,615.
Societe Generale du Magnesium: *See*—
Raclot, Bernard, 3,455,808.
Societe Generale Isothermos: *See*—
Valleteau de Moulliac, Guy, 3,473,796.
Societe Genevoise d'Instruments de Physique:*See*—
Mohr, Robert, 3,482,650.
Rollat, Germain, 3,424,055.
Societe Gerafin S.A.: *See*—
Meoni, Angelo, 3,478,424.
Societe Grenobloise d'Etudes et d'Applications Hydrauliques (Sogreah):*See*—
Condolios, Elie, 3,437,205.
Condolios, Elie, 3,460,678.
Duport, Jacques P.; and De Crevoisier, Michel, 3,433,014.
Duport, Jacques P.; and Martin, Gilbert, 3,464,357.
Societe Hispano-Suiza-Lallemant: *See*—
Lallemant, Pierre Joseph Martin, 3,452,844.
Lallemant, Pierre Joseph Martin, 3,480,115.
Marcheron, Claude Louis Edouard, 3,422,936.
Societe Indatom: *See*—
Coudray, Michel, 3,424,239.
Societe Industrielle Bull-General Electric (Societe Anonyme): *See*—
Cain, Pierre Arsene, 3,474,956.
David, Charles Antoine Marius, 3,428,954.
Droux, Jacques Pierre Leon, 3,487,374.
Feissel, Henri Gerard, 3,483,533.
Foure, Francois Maurice Spire; and Smithson, David John, 3,430,210.
Foure, Francois Maurice Spire; and Smithson, David John, 3,430,211.
Gayet, Alain, 3,425,041.
Hug, Joseph Andre, 3,441,915.
Laupretre, Jean-Jacques, 3,421,022.
Martin, Claude Raymond Marie, 3,435,756.
Stephan, Alain Maurice Joseph, 3,430,884.
Societe Industrielle de Brevets et d'Etudes S.I.B.E.:*See*—
Mennesson, Andre Louis, 3,437,081.
Mennesson, Andre Louis, 3,455,260.
Societe Industrielle de Mechanique et de Materiel d'Equipment:*See*—
Grebert, Roger Henri Ernest, 3,436,130.
Societe Industrielle de Transformation des Plastiques: *See*—
Lespagnol, Jean P.; and Leurent, Ghislain, 3,451,183.
Societe Industrielle de Transformation des Plastiques, Societe Anonyme: *See*—
Leurent, Ghislain, 3,434,258.
Societe Industrielle de Transformation des Plastiques: *See*—
Leurent, Ghislain, 3,434,748.
Leurent, Ghislain, 3,482,819.
Societe Industrielle des Coussinets: *See*—
Hermann, Georges, 3,467,596.
Societe Industrielle des Etablissements Piel (S.I.D.E.P.): *See*—
le Masson, Yves, 3,467,136.
Societe Industrielle d'Etudes et de Realisations Scientifiques S.I.E.R.S.:*See*—
Jaffier, Pierre Louis-Marie, 3,464,446.
Societe Industrielle du Metal Usine: *See*—
Renaudin, Fernand, 3,462,804.
Societe Industrielle et Commerciale des Automobiles Peugeot: *See*—
Bonnaud, Michel, 3,479,088.
Bouthors, Pierre; and Colinet, Andre, 3,448,674.
Bouthors, Pierre; Lecomte, Alexandre; and Soetaert, Guy, 3,483,769.
Boyenval, Bernard; and Labbe, Albert, 3,448,494.
Caron, Georges, 3,449,012.
Castarede, Armand M., 3,468,295.
Dangauthier, Marcel, 3,431,033.
Societe Industrielle et Commerciale des Automobiles Peugot: *See*—
Dangauthier, Marcel, 3,431,035.
Societe Industrielle et Commerciale des Automobiles Peugeot: *See*—
Dangauthier, Marcel, 3,445,884.
Dangauthier, Marcel, 3,453,904.
Dangauthier, Marcel, 3,454,303.
Dangauthier, Marcel, 3,456,629.
Dangauthier, Marcel, 3,463,259.
Grancon, Michel, 3,481,653.
Lombard, Claude, 3,435,165.
Moulin, Jean, 3,477,417.
Soetaert, Guy, 3,485,067.
Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A.: *See*—
Gelin, Robert, 3,481,275.
Leblanc, Jean, 3,429,409.
Szereszewski, Pinchas Paul; and Guy, Jean-Baptiste, 3,442,259.
Societe Jaz S. A.: *See*—
Oudet, Claude; and Lallement, Gerard, 3,431,808.
Societe le Carbone-Lorraine: *See*—
Moutaud, Gilberte, 3,446,593.
Reille, Paul, 3,467,846.
Societe Le Foyer et Cie: *See*—
Rigondaud, Guy Frederic, 3,459,485.

Societe Les Piles Wonder: *See—*
Gauthier, Adrien; and Garcin, Maurice M.P., 3,480,481.
Societe Lignes Telegraphiques et Telephoniques: *See—*
Ernyei, Herbert; and Huguier, Philippe, 3,430,206.
Flaks, Simon; and Escher, Balint, 3,453,105.
Flaks, Simon; and Depoutot, Roger, 3,458,775.
Zwobada, Rene, 3,444,428.
Societe Lorraine de Laminage Continu: *See—*
Dehaine, Georges P.; and Maige, Pierre G., 3,425,252.
Societe Lumiere: *See—*
Bonjour, Georges Auguste, 3,454,415.
Bonjour, Georges Auguste, 3,460,963.
Societe Luxembourgeoise de Brevets et de Participations: *See—*
Paulsen, Jean-Felix, 3,438,221.
Paulsen, Jean Felix, 3,438,222.
Paulsen, Jean Felix, 3,438,639.
Societe Lyonnaise de Plomberie Industrielle: *See—*
Blum, Paul, 3,466,662.
Societe Marocaine de Recherches, d'Etudes et de Developpements Somarede:*See—*
Honore, Etienne; and Torcheux, Emile, 3,441,726.
Societe Metallurgique d'Imphy:*See—*
Bouchet, Jean, 3,436,066.
Moulin, Pierre, 3,463,473.
Wache, Xavier, 3,464,815.
Societe Metrel: *See—*
Brachet, Roland F. C., 3,439,533.
Societe Mixte pour L'Etude et le Developpement de la Technique des Centres Postaux Mecanises:*See—*
Cambornac, Michel J.; Chazot, Jean J.; and Puechberty, Lucien P., 3,438,489.
Societe Nationale des Petroles d'Aquitaine:*See—*
Azoulay, Adrien; and Teitgen, Jean, 3,445,435.
Barbier, Maurice; and Sayous, Leon, 3,483,514.
Biensan, Michel, 3,474,005.
Carmassi, Michel; and Vandesande, Georges, 3,424,560.
Clamens, Henri, 3,459,002.
Donche, Alain; and Thibault, Claude, 3,442,907.
Donche, Alain; and Thibault, Claude, 3,485,849.
Gstalder, Serge,; Raynal, Jean,; and Renard, Bruno,, 3,443,650.
Heslan, Emile, 3,429,930.
Heslan, Emile, 3,485,878.
Jenner, Pierre; Sayous, Leon; and Larrieu, Remi, 3,429,396.
Louvel, Bernard, 3,460,035.
Metais, Bernard, 3,451,986.
Niggebrugge, Herbert, 3,437,700.
Ourgaud, Janine, 3,442,840.
Pflugfelder, Bernard H., 3,422,150.
Pfugfelder, Bernard; Benne, Georges; and Cazajous, Claude, 3,437,666.
Raynal, Jean; Gstalder, Serge; and Quichaud, Claude, 3,448,305.
Sahores, Jean; and Esquevin, Jacques, 3,446,352.
Signouret, Jean-Baptiste, 3,459,717.
Signouret, Jean-Baptiste, 3,465,064.
Zwilling, Jean-Paul, 3,428,419.
Societe Nationale d'Etude et de Construction de Moteurs d'Aviation:*See—*
Alder, Robert Oscar; Baudet, Roger Jean Francois; Baudier, Claude Paul; and Gasset, Michelle Marcelle, 3,430,405.
Aubert, Jacques; and Silhouette, Jean-Max Marie, 3,472,028.
Bauger, Louis Jules; and Lacroix, Armand Jean Baptiste, 3,477,230.
Boudigues, Serge, 3,486,328.
Caruel, Jacques Emile Jules; and Lacroix, Armand Jean-Baptiste, 3,447,318.
Gauje, Georges Maurice Celestin Alois, 3,486,927.
Guichet, Lucien Robert; and Gotoghian, Georges Jacques, 3,442,006.
Hardy, Jean Marie; and Lacombe, Henry Marie-Andre Rene, 3,432,100.
Jumelle, Louis Francois, 3,486,699.
Lacombe, Henry Marie Andre Rene, 3,424,384.
Logerot, Rene Paul; and Alesi, Pierre Andre, 3,439,504.
Marchal, Raymond H. F.; and Foure, Claude D., 3,420,737.
Marchal, Raymond Hippolyte Firmin; Colombani, Don Pierre Louis Jean; and Ernst, Adolphe Otton Gontier, 3,486,718.
Naud, Henry; and Constant, Rene Leon, 3,441,221.
Quillevere, Herve Alain; and Caruel, Jacques Emile Jules, 3,440,818.
Rona, Jean, 3,437,100.
Servanty, Pierre; and Chaumette, Paul Joseph Adrien, 3,474,813.
Societe Nouvell Spidem: *See—*
Diolot, Lucien, 3,442,109.
Societe Nouvelle des Echafaudages Tubulaires Mills: *See—*
Beziat, Bernard, 3,481,095.
Societe Nouvelle Spidem: *See—*
Diolot, Lucien, 3,468,151.
Diolot, Lucien, 3,483,797.
Societe Nouvelle Spiden: *See—*
Diolot, Lucien, 3,435,652.
Diolot, Lucien, 3,469,484.
Societe Orega Electronique & Mecanique: *See—*
Habian, Albert, 3,482,178.
Societe Organico: *See—*
Genas, Michailas; and Kern, Rene, 3,427,303.
Societe Parisienne d'Expansion Chemique S.P.E.C.I.A.:*See—*
Raybois, Georges, 3,444,991.
Societe Potain S.A.: *See—*
Noly, Jean, 3,477,695.
Societe Pour l' Etude et La Realisation des Procedes Electroniques de Calcul Analac:*See—*
Hassid, Michel; and Garnier, Francois, 3,441,847.
Societe pour l'Utilisation Rationnelle des Fluides:*See—*
de Beaumont, Henry, 3,426,596.
Societe Rateau: *See—*
Chaboseau, Jacques; and Mech, Christian, 3,476,449.
Societe Rhodiaceta: *See—*
Felix, Pierre, 3,422,616.
Garaud, Jean Pierre, 3,465,602.
Hantzer, Pierre; and Picard, Jean, 3,460,973.
Hilaire, Paul, 3,475,379.
Joly, Jean; and Chezaud, Jean Claude, 3,438,105.
Joly, Jean, 3,482,294.
Reverand, Auguste, 3,421,931.
Saligny, Claude; and Lyonnet, Jaques, 3,449,153.
Terra, Pierre Jean; and Pellet, Andre, 3,445,562.
Societe Saint-Gobain Techniques Nouvelles: *See—*
Bonnin, Andre; and Poirier, Philippe, 3,450,640.
Bonnin, Andre; and Poirier, Philippe, 3,453,214.
Eudes, Marcel; and de Vernejoul, Pierre, 3,462,245.
Societe Sciper A.A.: *See—*
Camoletti, Bruno; and Hausermann, Pascal, 3,468,083.
Societe SEFA: *See—*
Salomone, Georges, 3,481,879.
Societe Spiralex S.A.: *See—*
Giros, Marcel A., 3,455,133.
Societe Stein et Roubaix: *See—*
Pouderoux, Pierre, 3,434,924.
Societe Technique de Recherches Industrielles et Mecaniques: *See—*
Precoul, Michel, 3,451,339.
Societe Th. Grimmeisen: *See—*
Grimmeisen, Theodore Louis, 3,421,183.
Societe Thomson-Varian: *See—*
Romiguiere, Claude E., 3,447,019.
Society Thomson-Varian: *See—*
Beurtheret, Charles A.; and Boissiere, Jacques G., 3,435,283.
Socolescu, Grigore O., to Ministerul Industrici Chimice. Procedure for the extraction of manganese, iron and other metals from silicates, metallurgical wastes and complex mining products. 3,450,523, 6-17-69, Cl. 75-7.
Socony Mobil Oil Company, Inc.: *See—*
Zemanek, Joseph, Jr., 3,456,754.
Soddy, Thomas C., to Youngstown Steel Door Company, The. Railroad car side wall. 3,427,998, 2-18-69, Cl. 105-409.
Sodell Research & Development Company: *See—*
Patterson, James A., 3,447,863.
Soder, Alfons; and Busing, Gerhard, to Chemische Werke Albert. Salts of nicotinic acid. 3,478,041, 11-11-69, Cl. 260-295.5
Soder, Karl G.: *See—*
Osborn, William F., Jr.; and Soder, Karl G.,3,466,871.
Soderberg, Joseph E. Mooring device. 3,430,598, 3-4-69, Cl. 114-230.
Soderberg, Laurence R., to Martin-Marietta Corporation. Non-mechanical variable orifice shock absorber. 3,442,501, 5-6-69, Cl. 267-64.
Soderberg, Leif Erik Roland, to AGA Aktiebolag. Applying heat-reflecting and electrically conductive coatings on glass. 3,476,594, 11-4-69, Cl. 117-211.
Soderberg, Leif Erik Roland: *See—*
Hedberg, Oscar Emanuel; Soderberg, Leif Erik Roland; and Westberg, Johan Eric Hayden,3,444,289.
Soderhamns Verkstader Aktiebolag: *See—*
Nilsson, Philip, 3,486,541.
Soderlund, Vernon R. Pavement lifter. 3,486,795, 12-30-69, Cl. 299-36.
Soderquist, Donn W.: *See—*
Marosi, Gilbert; and Soderquist, Donn W.,3,451,041.
Soderquist, Fred J.: *See—*
Bargeron, Kim G.; and Soderquist, Fred J.,3,441,625.
Soderquist, Frederick J.; Boyce, Harold D.; and Kline, Paul E., to Dow Chemical Company, The. Self-regenerative dehydrogenation catalyst for electric resistance heated reactors. 3,435,086, 3-25-69, Cl. 260-669.

Soderqvist, Bjorn G. F.: *See—*
Emneus, Nils Ingvar Arne; Gelotte, Erik B.; Rehn, Nils G.; and Soderqvist, Bjorn G. F.,3,476,737.
Soderstrom, Karl Gunnar Rune. Method and apparatus for examining and identifying bank notes or the like, perferably used in conjunction with vending machines. 3,448,855, 6-10-69, Cl. 209-75.
Sodescal-Sociedade de Maquinas de Descasque: *See—*
Cardoso, Carlos Duarte, 3,439,719.
Soeda, Katsuzi, to Yamamoto Denki Kogyo Kabushiki Kaisha. Speed-controlling device for D-C motors. 3,457,486, 7-22-69, Cl. 318-331.
Soehner, Gerhard; and Hoehne, Gerd, to Bosch, Robert, G.m.b.H. Ignition arrangements for internal combustion engines. 3,473,061, 10-14-69, Cl. 310-156.
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley, to Celanese Corporation. Tobacco smoke filter. 3,444,863, 5-20-69, Cl. 131-267.
Soehnlen, Robert M., to Beloit Pipe and Dredge, Inc. Amphibious dredge. 3,470,633, 10-7-69, Cl. 37-67.
Soesbergen, Adrianus, to Inland Steel Company. Closing ring for shipping containers. 3,429,605, 2-25-69, Cl. 292-256.65
Soetaert, Guy: *See—*
Bouthors, Pierre; Lecomte, Alexandre; and Soetaert, Guy,3,483,769.
Soetaert, Guy, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Devices for the simultaneous locking of several panels or doors of vehicles. 3,485,067, 12-23-69, Cl.
Sofer, Noah: *See—*
Ben-Moshe, Shemayahu; Shorr, Leonard Marshall; and Sofer, Noah,3,475,401.
Shorr, Leonard Marshall; and Sofer, Noah,3,470,147.
Soffer, Bernard H.; and Hoskins, Raymond H., to Union Carbide Corporation. Reversibly bleachable dye for use with a giant pulse laser. 3,470,492, 9-30-69, Cl. 331-94.5
Soffer, Bernard H.; and Winer, Irvin M., to Konrad Corporation. Calorimetry apparatus for measuring high intensity radiation. 3,483,747, 12-16-69, Cl. 73-190.
Soffer, Bernard H.: *See—*
Hoskins, Raymond H.; and Soffer, Bernard H.,3,427,566.
Soffer, Jacques: *See—*
Guilbaud, Georges; and Soffer, Jacques,3,448,390.
Soffer, Jacques; and Mangin, Jean Paul, to CSF-Compagnie Generale de Telegraphie Sans Fil. Apparatus for shortening of electron pulses emitted from an electron gun. 3,454,818, 7-8-69, Cl. 315-5.41
Soffge, Friedhelm, to Porsche, Dr.-Ing., H.c.F., K.G. Prefabricated folding bridge transporting and laying vehicle. 3,486,180, 12-30-69, Cl. 14-1.
Sofianek, Joseph C., to General Electric Company. Vacuum type circuit interrupter. 3,441,698, 4-29-69, Cl. 200-144.
Sofianek, Joseph C., to General Electric Company. Vacuum type circuit interrupter having contacts provided with improved arc-propelling means. 3,462,572, 8-19-69, Cl. 200-144.
Softky, Sheldon D., to Stanford Research Institute. Gaseous glow discharge tube with cathode means surrounding anode means. 3,435,211, 3-25-69, Cl. 250-51.5
Softky, Sheldon D.; Taimuty, Samuel I.; and Rubin, Sylvan, to Stanford Research Institute. Electronic control device composed of photoconducting insulators. 3,475,610, 10-28-69, Cl. 250-211.
Sofy, Hugh M. Transfer device. 3,421,637, 1-14-69, Cl. 214-1.
Sogal, Stephen, to Goodrich, B. F., Company, The. Method for preparing ethyl acrylate. 3,445,506, 5-20-69, Cl. 260-486.
Sogge, Richard G., to Digital Equipment Corporation. Digital adder with expedited intrastage carry. 3,480,768, 11-25-69, Cl. 235-175.
Soguel, Rene. Winding and hand-setting crown for diver watches. 3,475,901, 11-4-69, Cl. 58-90.
Sohl, William I.: *See—*
Cafiero, Vincent J.; and Sohl, William I.,3,465,896.
Sohlemann, Just, to Bolkow Gesellschaft mit beschrankter Haftung. Duplicating machine tool. 3,477,264, 11-11-69, Cl. 72-81.
Sohmers, Ralph; and Siegelbaum, Gary. Fumigated pet house. 3,428,026, 2-18-69, Cl. 119-19.
Sohn, August Wilhelm; and Erasumus, Albert, to Zellsloffabrik Waldhof A.G. Adhesion between lead electrodes and particles embedded therein and method of making same. 3,480,478, 11-24-69, Cl. 136-26.
Sohn, Bernard I.; Eisenmann, John L.; and Alexander, Samuel S., to Ionics, Incorporated. Process for cementing ion-exchange material. 3,480,495, 11-25-69, Cl. 156-94.
Sohn Boehringer, C. H.: *See—*
Thoma, Otto; Koppe, Herbert; Mentrup, Anton; Zeile, Karl; and Ludwig, Gerhard, 3,475,455.
Sohn, C. H. Boehringer: *See—*
Lowe, Wilfrit, 3,462,498.
Sohn, Werner, to Telefunken Patentverwertungsgesellschaft m.b.H. Tape counter drive mechanism. 3,450,361, 6-17-69, Cl. 242-55.12
Sohne, Joh. Kleinewefers: *See—*
Salhofer, Josef Ferdinand, 3,429,959.
Sohne, W. Ferd., Klingelnberg: *See—*
Kurtzmann, Udo, 3,455,586.
Sohner, Gerhard: *See—*
Steinke, Leo; Sohner, Gerhard; Hurst, Kurt; Gerber, Richard; Frimmel, Karl; and Herrmann, Otto,3,486,075.
Zechnall, Richard; Issler, Jorg; Sohner, Gerhard; and Worz, Paul,3,463,134.
Soignet, Donald M.; and McKelvey, John B., to United States of America, Agriculture. Preparation of 1,1,4,4-tetraethylpiperazinium dichloride. 3,478,033, 11-11-69, Cl. 260-268.
Soil Fertility Limited: *See—*
Cooke, Gordon Noel; Hall, Henry Patrick; and Lister-Kaye, John Christopher Lister, 3,481,545.
Soilserv, Inc.: *See—*
Phillips, Irvine L.; Scott, David B.; and Thompson, James M., 3,442,221.
Soiron, Charles; Rafael, Hans; and Stockar, Walter, to Geigy, J. R., A.G. Dyeing and printing on polyamide fibers. 3,467,486, 9-16-69, Cl. 8-74.
Sokol, Edward A. Portable gas-powered appliance and a fuel storage tank therefor. 3,443,876, 5-13-69, Cl. 431-100.
Sokol, Herbert Z., deceased,0 (by Eichberg, Joseph, executor,), to GK Industries, Inc. Pressurized dispensing container and method of filling same. 3,421,664, 1-14-69, Cl. 222-340.
Sokol, Herbert Z., to American Lecithin Company, mesne. Closure crimping device. 3,465,498, 9-9-69, Cl. 53-348.
Sokol, Robert W.; and Neal, Lonnie G., to General Motors Corporation. Electromagnetic gyroscope float assembly. 3,475,975, 11-4-69, Cl. 74-5.7
Sokoloff, Paul W., to Sylvania Electric Products, Inc. Security system. 3,471,845, 10-7-69, Cl. 340-258.
Sokolov, David A., to Xerox Corporation. Selective photocopier. 3,459,888, 8-5-69, Cl. 178-7.7
Sokolov, David A., to Xerox Corporation. Electronic lenticular recording system. 3,485,945, 12-23-69, Cl. 178-5.4
Sokolov, Leonid Borisovich: *See—*
Kuljbakh, Valjter Osvaljdovich; Sokolov, Leonid Borisovich; Sveshnikov, Jury Fedorovich; Kuznetsova, Olja Alexandrovna; Malinovskaja, Galina Nickolaevna; and Raigorodskaja, Valentina Jakovlevna,3,439,090.
Sokolovsky, Oleg Petrovich: *See—*
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich,3,480,074.
Sokolowski, Robert C.; Lewis, Frank M., Jr.; and Hrubecky, Frederick J., to Kimberly-Clark Corporation. Disposable fabric. 3,484,330, 12-16-69, Cl. 161-59.
Sokolowski, Robert C.; and Stumpf, Robert J., to Kimberly-Clark Corporation. Deregistering apparatus for crimped multi- filament tow. 3,465,399, 9-9-69, Cl. 28-1.
Sol, Cornelis, to Timmerman, Gerrit. Egg breaking machine. 3,444,909, 5-20-69, Cl. 146-2.
Sola Basic Industries, Inc.: *See—*
Bassett, John A., Jr., 3,469,179.
Michiulis, Bruno B., 3,457,635.
Michiulis, Buno B., 3,461,758.
Miller, Charles Fredrick; and Zenker, Raymond O., 3,448,910.
Miller, Charles Fredrick; Zenker, Raymond O.; and Durant, Bobby G., 3,451,607.
Rea, Fred G., 3,459,995.
Rea, Fred G., 3,469,176.
Sola, Joseph G., 3,435,330.
Sola, Giuseppe, to Fiat Societa per Azioni. Fuel injection pump. 3,433,172, 3-18-69, Cl. 103-154.
Sola, Jorge Marti. Cone winding machine for spinning. 3,442,461, 5-6-69, Cl. 242-37.
Sola, Joseph G., to Sola Basic Industries, Inc. Inductive voltage divider-autotransformer automatic voltage regulating system. 3,435,330, 3-25-69, Cl. 323-43.5
Solak, Thomas A.; and Duke, June T., to Standard Oil Company, The (Ohio). Polymerizates of olefinic nitriles and diene- nitrile rubbers. 3,426,102, 2-4-69, Cl. 260-879.
Solanum Aktiebolag: *See—*
Tjaderklou, Sven Anders Torbjorn, 3,461,792.
Solar Engineering & Equipment Co.: *See—*
Donner, Edmund B., 3,426,884.
Donner, Edmund B., 3,446,334.
Donner, Edmund B., 3,465,868.
Solari & C./Udine S.p.A.: *See—*
Solari, Fermo, 3,482,240.
Solari, Fermo, to Solari & C./Udine S.p.A. Device for controlling and automatically correcting the synchronization of indicator elements in remote display mechanisms. 3,482,240, 12-2-69, Cl. 340-325.
Solari, Louis J. Scaffold with elevatable section. 3,438,460, 4-15-69, Cl. 182-132.
Solaronics, Inc.: *See—*
Lherault, Jean A. D. P.; and Nuckols, David E., 3,439,996.

Solartron Electronic Group Limited, The: *See—*
Bailey, Christopher E. G.; and Metcalf, Eric, 3,439,272.
Catherall, Reginald, 3,462,587.
Charter, Ian G.; Miles, Sydney F.; and Bailey, Christopher E. G., 3,422,258.
Dorey, Howard A., 3,458,809.
Ley, Anthony J., 3,440,441.
Ley, Anthony John, 3,471,779.
Metcalf, Eric; and Dorey, Howard Anthony, 3,439,271.
Tait, David A. G., 3,458,695.
Wakefield, Donald Keith, 3,444,723.
Warren, John G., 3,486,018.

Solberg, Conrad J.; Hille, Lawrence S.; Schoenherr, Henry W.; and Solstad, Russell V., to Control Data Corporation. Method for producing circuit module. 3,449,828, 6-17-69, Cl. 29-620.

Solberg, Per, to Stord Bartz Industri A/S. Screw presses. 3,461,793, 8-19-69, Cl. 100-117.

Solberg, Willis O., to General Electric Company. Electrical capacitor systems having long- term storage characteristics. 3,463,992, 8-26-69, Cl. 320-1.

Solbern Corporation: *See—*
Eisenberg, Bernard C., 3,468,098.

Solco Basel AG: *See—*
Jaeger, Karl-Heinz; and Mittenzwei, Hellmut, 3,466,367.

Soldato, Paul C. Means of automatically adjusting hydraulic pneumatic packings. 3,434,728, 3-25-69, Cl. 277-59.

Soldatos, Anthony C., to Union Carbide Corporation. Phenolated polymers of isoprene. 3,444,134, 5-13-69, Cl. 260-47.

Soldatos, Anthony C.; and Burhans, Allison S., to Union Carbide Corporation. Curable, tacky polymers of water and a polyepoxide and process for the preparation thereof. 3,441,522, 4-29-69, Cl. 260-2.

Soldner, Richard E.: *See—*
Krause, Walter; Soldner, Richard E.; and Kresse, Heinz A.,3,470,868.

Sole, Jean: *See—*
Prost, Gerard; and Sole, Jean,3,479,569.

Sole, Pedro, Jr., to Instituto Centroamericano de Investigacion y Technologia Industrial. Recovery of vegetable oils and proteins from emulsions by wet milling. 3,451,990, 6-24-69, Cl. 260-123.5

Soleanicov, Vladimir; Pop, Laurentiu Ion; and Breicher, Erich, to Ministeral Industriei Alimentare. Depilating apparatus. 3,468,141, 9-23-69, Cl. 69-20.

Solecki, Edward A.: *See—*
Cellitti, Raymond A.; Plofsky, Erwin; and Solecki, Edward A.,3,481,186.

Solenoid Devices, Inc.: *See—*
Straub, Joseph E., 3,435,391.

Soler Marti, Antonio; Soler Marti, Juan; Soler Marti, Jose; and Soler Marti, Mario. Safety lock. 3,462,984, 8-26-69, Cl. 70-310.

Soler Marti, Jose: *See—*
Soler Marti, Antonio; Soler Marti, Juan; Soler Marti, Jose; and Soler Marti, Mario,3,462,984.

Soler Marti, Juan: *See—*
Soler Marti, Antonio; Soler Marti, Juan; Soler Marti, Jose; and Soler Marti, Mario,3,462,984.

Soler Marti, Mario: *See—*
Soler Marti, Antonio; Soler Marti, Juan; Soler Marti, Jose; and Soler Marti, Mario,3,462,984.

Soletanche: *See—*
Courte, Jacques, 3,422,627.

Soleymani, Sion; and Schiff, Albin G. Toothbrush. 3,474,481, 10-28-69, Cl. 15-167.

Solheim, Peder Ragnvald, to Norsk Hydro-Elektrisk Kvaelslofaktieselskab. Apparatus for ladling liquid metal. 3,471,057, 10-7-69, Cl. 222-61.

Solid State Electronics Pty. Limited: *See—*
Schafer, Walter Dale, 3,453,383.

Solidstate Controls, Inc., The: *See—*
Jackson, Stuart P., 3,422,342.

Solins, Milton, to A.P.M. Corporation. Composite moisture proofing device. 3,471,158, 10-7-69, Cl. 277-32.

Solipasso, Victor M., to Jacobsen, Harvey A. Metzler, Ronald H. Coasting vehicle. 3,432,182, 3-11-69, Cl. 280-18.

Solis Societa a Responsabilita Limitata: *See—*
Mazzi, Aramis, 3,430,464.

Solitron Devices, Inc.: *See—*
Greibach, Emil H., 3,458,811.
Harris, James J., 3,461,396.
Tibol, George J., 3,476,984.

Solitron Devices, Incorporated: *See—*
Curran, Robert A., 3,483,011.

Solitron Dvices, Inc.: *See—*
Gilbert, Gorge J., 3,484,309

Sollay, Alva A. Method for concrete foundation. 3,442,089, 5-6-69, Cl. 61-53.64

Sollie, William H.: *See—*
Cowal, Alexander R.; Sams, Gary and Sollie, William H.,3,438,662.

Sollins, Irving V.: *See—*
Loken, Bjarte; and Sollins, Irving V.,3,480,619.

Sollow, Philip A.: *See—*
Lapin, Ellis E.; Ernest, Alan W.; and Sollow, Philip A.,3,427,200.

Solmos, Gene R., to Radio Corporation of America. Coil form. 3,432,785, 3-11-69, Cl. 336-198.

Solms, Jurg, to Afico S.A. Inclusion resins of cyclodextrin and methods of use. 3,420,788, 1-7-69, Cl. 260-17.4

Solo, Alan J., to Creative Environments Inc. Collapsible workbench. 3,434,436, 3-25-69, Cl. 108-128.

Solo Cup Company: *See—*
McKenna, Charles A., 3,462,044.

Solodar, Warren E.; and Kyriakakis, Basil M., to Xerox Corporation. 1,5-Bis-(substituted alkylamino)-anthraquinones. 3,478,064, 11-11-69, Cl. 260-378.

Solodar, Warren E.; and Labana, Santokh S., to Xerox Corporation. Electrophotographic plate and process using naphthylazo compounds as the primary photoconductor. 3,482,970, 12-9-69, Cl. 96-1.5

Solodilov, Leonid Nikolaevich: *See—*
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich,3,447,625.

Solodukho, Yakov Judelevich; and Zamaraev, Boris Stepanovich. Device for grid control of gas-filled rectifiers. 3,436,664, 4-1-69, Cl. 328-225.

Soloff, Robert S., to Branson Instruments, Incorporated. Solid acoustic horn with suction means. 3,464,102, 9-2-69, Cl. 29-200.

Soloff, Robert S.; Jacke, Stanley E.; and Bloch, Peter K., to Branson Instruments, Incorporated. Method of simultaneously securing a plurality of elements to a thermoplastic member using sonic energy. 3,440,117, 4-22-69, Cl. 156-73.

Solokhin, Boris Ivanovich; Krauze, Gennady Nikolaevich; and Vargasov, Alexandr Ivanovich. Driving mechanism of double-track vehicles. 3,480,097, 11-25-69, Cl. 180-6.48

Solomon, Francis K. Folding portable sawhorse. 3,481,430, 12-2-69, Cl. 182-153.

Solomon, Frank; and Himy, Albert, to Yardney International Corporation. Electrode assembly with accordion wrap separator. 3,450,566, 6-17-69, Cl. 136-6.

Solomon, Frank; Zeilicof, Frederica; Thompson, Lee V.; and Blumenstein, Carl R., to Yardney International Corporation. Process and composition for treating polyamide substance and resultant hydrophilic product. 3,481,773, 12-2-69, Cl. 117-139.5

Solomon,Fred D., to Lanning Equipment Corp. Mechanism for supporting and positioning wraparound brushes in a car wash. 3,486,182, 12-30-69, Cl. 15-21.

Solomon, Fred D., to Lanning Equipment Corporation. Sensing and positioning control mechanism for a car washing brush. 3,456,275, 7-22-69, Cl. 15-21.

Solomon, Gerald Louis, to United Merchants and Manufacturers, Inc. Polymer emulsion compositions for treating textiles. 3,455,642, 7-15-69, Cl. 8-115.6

Solomon, Irvine J.: *See—*
Kacmarek, Andrew J.; and Solomon, Irvine J.,3,421,861.

Solomon, Jack, to Lincoln Metal Products Corporation. Stand cabinet construction. 3,441,329, 4-29-69, Cl. 312-245.

Solomon, James E., to Motorola, Inc. Variable bandwidth filter system. 3,436,670, 4-1-69, Cl. 330-28.

Solomon, Nathan L. Hair curler. 3,438,382, 4-15-69, Cl. 132-39.

Solomon, Nathan L. Hair curl retainer. 3,472,244, 10-14-69, Cl. 132-9.

Solomon, Peter R.: *See—*
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B.,3,421,330.
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B.,3,478,230.

Solomon, Raymond; and Mueller, Louis F., Jr., to Varian Associates. Metal-ceramic gas laser discharge tube. 3,469,207, 9-23-69, Cl. 331-94.5

Solomon, William H.; Van Weelde, Donald J.; and Forward, Carrel M., to Oliver Machinery Company. Labeling machine. 3,451,874, 6-24-69, Cl. 156-354.

Solomon, William: *See—*
Pollak, Edward C.; Harman, Bennett B.; and Solomon, William,3,435,643.

Solomonson, Daniel H., to Lamb-Grays Harbor Co., Inc. Turntable apparatus. 3,442,410, 5-6-69, Cl. 214-730.

Solon, Leonard R.: *See—*
Held, Kalman; and Solon, Leonard R.,3,470,490.

Solovieff, George B.: *See—*
Russell, Fred J.; and Solovieff, George B.,3,449,789.

Solow, Benjamin, to Angstrohm Precision Incorporated. Thin film resistor. 3,469,226, 9-23-69, Cl. 338-252.

Solowey, Ida. Disposable single unit-dose syringe with locking plunger. 3,478,937, 11-18-69, Cl. 222-386.

Solstad, Russell V.: *See—*
Solberg, Conrad J.; Hille, Lawrence S.; Schoenherr, Henry W.; and Solstad, Russell V.,3,449,828.

Solt, Paul E.: *See—*
Aller, Edmund R.; and Solt, Paul E.,3,469,888.
Solter, Robert L.: *See—*
Raidl, John H.; Solter, Robert L.; and Hansen, Franklin A.,3,445,032.
Soltis, Daniel G.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,948.
Soltis, Frank G., to International Business Machines Corporation. Look-ahead control circuitry. 3,456,161, 7-15-69, Cl. 317-123.
Soltis, Joseph P., Jr.: *See—*
Redzinski, Gilbert E.; and Soltis, Joseph P., Jr.,3,459,941.
Soltis, Peter J., Jr., to Kelsey-Hayes Company. Antirattle device for disk brakes. 3,463,275, 8-26-69, Cl. 188-73.
Soltysik, Edmund J., to Illinois Tool Works Inc. Fastening device. 3,430,904, 3-4-69, Cl. 248-68.
Soltysik, Edmund J.; and Ryder, Francis E., to Illinois Tool Works, Inc. Terminal board clip. 3,421,135, 1-7-69, Cl. 339-217.
Soltysik, Edmund J.; and Ryder, Francis E., to Illinois Tool Works Inc. Grounding clip. 3,486,158, 12-23-69, Cl. 339-14.
Soltysik, Edmund John, to Illinois Tool Works Inc. Pipe clip. 3,444,596, 5-20-69, Cl. 24-73.
Soltz, Daniel J., to Honeywell Inc. Variable single shot multivibrator. 3,465,174, 9-2-69, Cl. 307-274.
Soltz, Daniel J.; and Greer, Homer L., to Honeywell Inc. pH Detecting device using temperature compensated field-effect transistor differential amplifier. 3,431,508, 3-4-69, Cl. 330-30.
Solum, James R., to B & W Incorporated. Flow-reversing liner shoe for well gravel packing apparatus. 3,421,586, 1-14-69, Cl. 166-51.
Solum, James R., to B & W Incorporated. Well gravel packing apparatus. 3,428,219, 2-18-69, Cl. 222-134.
Solum, James R.; and Park, Robert O., to B & W, Incorporated. Well tool. 3,424,245, 1-28-69, Cl. 166-124.
Solutec Corporation: *See—*
Kortejarvi, Arnold, 3,457,151.
Solvay & Cie: *See—*
Clement, Jean Max, 3,480,528.
Delbouille, Andre; and Toussaint, Henry, 3,424,737.
Delbouille, Andre; and Speltinckx, Rene, 3,454,547.
Delbouille, Andre; and Toussaint, Henri, 3,479,326.
Demol, Pierre; and Mathis, Pierre, 3,476,587.
Dobovsek, Yvan, 3,470,269.
Hoegl, Helmut; Rotta, Gotz; and Columberg, Alfred, 3,464,968.
Martens, Guy, 3,480,686.
Mathieu, Alexis, 3,436,385.
Mathis, Pierre; and Demol, Pierre, 3,432,340.
Osterrieth, Michel; and Voituron, Georges, 3,476,698.
Pelot, Claude, 3,429,211.
Ryckaert, Andre; and Gilain, Jacques, 3,454,663.
Ryckaert, Andre; and Mulders, Julien, 3,479,414.
Verlaeten, Jean; and Nisol, Francis, 3,440,011.
Wollrab, Friedrich; and Verschaeve, Rene, 3,454,511.
Wollrab, Friedrich; and Decroly, Pierre, 3,463,832.
Solvents Recovery Service of New Jersey, Inc.: *See—*
Boll, Carleton H.; and Lanyon, Robert P., 3,483,832.
Solvik, Ragnar S.: *See—*
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S.,3,451,981.
Rekers, Louis J.; Mador, Irving L.; and Solvik, Ragnar S.,3,451,989.
Solvik, Ragnar S.; and Kirch, William, to National Distillers and Chemical Corporation. Catalyst activation. 3,446,754, 5-27-69, Cl. 252-458.
Solyanik, Vitaly Filippovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Solymar, George G., to Aerospace Components Corporation. Bellows filter. 3,447,689, 6-3-69, Cl. 210-356.
Soma, Nobuo: *See—*
Sunagawa, Genshun; Soma, Nobuo; and Nakazawa, Junichi,3,453,286.
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; and Watatani, Mitsuo,3,461,131.
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; Watanabe, Taiichiro; and Sato, Yoshio,3,467,665.
Sunagawa, Genshun; Soma, Nobuo; Watanabe, Taiichiro; and Sato, Yoshio,3,435,071.
Soma, Takeshi: *See—*
Lanaka, Tomoharu; Miyamae, Masao; Takayama, Shinichi; Iio, Katsumi; Komatsubara, Tomomitsu; and Soma, Takeshi,3,424,729.
Somazzi, Lino, to Anstalt, Kassel. Device to be applied to analytic restituters for obtaining orthophotoplanes. 3,446,553, 5-27-69, Cl. 355-47.
Someda, Sadamichi, to Matsushita Electric Industrial Co., Ltd. Complementary symmetry transistor amplifier circuit employing drive signal limiting means. 3,437,946, 4-8-69, Cl. 330-13.
Somekh, George S.; and Hawkes, Edward N., to Union Carbide Corporation. Process for recovery of amines from aqueous solutions by solvent treatment and distillation. 3,433,788, 3-18-69, Cl. 260-247.
Somers, Allen E.: *See—*
Carr, Norman L.; and Somers, Allen E.,3,440,013.
Somers, Arthur V.: *See—*
Fenerty, Michael J.; and Somers, Arthur V.,3,442,668.
Somers, Arthur V., to General Motors Corporation. Method of making a ceramic core. 3,423,216, 1-21-69, Cl. 106-38.35
Somers, Edward V.: *See—*
Bechtold, James H.; and Somers, Edward V.,3,454,748.
Somers, William P., to General Electric Company. Electrically heated bedcover control. 3,462,585, 8-19-69, Cl. 219-501.
Somervell, Roland W. G., to Wilkinson Sword Limited. Cutting tools. 3,486,227, 12-30-69, Cl. 30-250.
Somervell, Roland W. G.; and Kraty, Nigel P., to Wilkinson Sword Limited. Shears, scissors and other handtools. 3,460,251, 8-12-69, Cl. 30-248.
Somerville, Craig A. Board game apparatus with game pieces interlocked for movement as a unit. 3,466,044, 9-9-69, Cl. 273-131.
Somerville Industries, Limited: *See—*
Skillen, William R., 3,442,547.
Somerville, John S.: *See—*
Pumpelly, Charles T.; Pedjac, Joseph J.; and Somerville, John S.,3,480,600.
Somerville, Robert L.: *See—*
Chelminski, Roman; and Somerville, Robert L.,3,472,619.
Somes, Frederick J., Jr. Electrical system, equipment for forming same, and method of installation. 3,448,203, 6-3-69, Cl. 174-99.
Someya, Akira: *See—*
Hashimoto, Tsunekazu; Yamamoto, Koichi; Someya, Akira; and Iduda, Isunekazu,3,462,631.
Somfai, Eva: *See—*
Ecsery, Zoltan; Knoll, Jozsef; Kosa, Ildiko; Sandor, Ildiko; Somfai, Eva; and Torok, Sandor,3,485,874.
Somlyody, Arpad, to Burroughs Corporation. Electronic billing circuit. 3,453,418, 7-1-69, Cl. 235-61.6
Sommer & Maca Glass Machinery Company: *See—*
French, Jack W.; and Miller, Steven, 3,449,781.
French, Jack W.; Lewanski, Richard M.; and Modry, Richard E., 3,456,277.
Sommer, Anton; and Muncke, Ludwig, to Deere & Company. Quick-release hitch for implements. 3,427,046, 2-11-69, Cl. 280-479.
Sommer, Bernard Irving: *See—*
Reis, John Crittenton; Sommer, Bernard Irving; and Ennis, Thomas E.,3,431,510.
Sommer, Don A.; and Doerwang, Joseph F., to Engelhard Minerals & Chemicals Corporation, mesne. Recovery of wire from plastic insulation. 3,433,356, 3-18-69, Cl. 209-164.
Sommer, Edward C.: *See—*
Fiocco, Robert J.; Schumacher, Edward B.; and Sommer, Edward C.,3,454,180.
Sommer, Erwin; Manegold, Jost-Henrich; and Schulze, Helmut, to Glanzstoff AG. Viscosity control in the chain extension of linear polyurethanes using a combination of chain extenders and a chain-stopper. 3,483,167, 12-9-69, Cl. 260-75.
Sommer, Johannes. Preservative wrapper for wood poles, the process for its manufacture, and the method of using same. 3,467,490, 9-16-69, Cl. 21-7.
Sommer, John G., Jr., to General Tire & Rubber Company, The. Ablative insulation prepared from epoxy resin, a polysulfide and boric acid. 3,457,215, 7-22-69, Cl. 260-37.
Sommer, John G.: *See—*
Daly, James H.; Sommer, John G.; and Meyer, Daniel A.,3,421,970.
Grover, Horace N.; and Sommer, John G.,3,476,599.
Sommer, Richard A., to Ajax Magnethermic Corporation. Constant level holding furnaces. 3,441,261, 4-29-69, Cl. 266-33.
Sommer, Siegmund: *See—*
Pohlke, Rolf; Sommer, Siegmund; and Schorscher, Ernst,3,452,010.
Sommer, William Albert, to Borden, Inc. Apparatus for preventing premature flashing in a processing system. 3,466,996, 9-16-69, Cl. 99-251.
Sommeregger, Heinz; and Gott, Hans, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Electric current feeding device for resistance welding. 3,424,888, 1-28-69, Cl. 219-87.
Sommerfeld, Karl: *See—*
Bader, Otto; Guhne, Hans-Peter; Sommerfeld, Karl; and Chilla, Johannes,3,430,436.
Sommermeyer, Heinrich. Rotary magnetic separator. 3,439,808, 4-22-69, Cl. 210-222.
Sommerschuh, Lothar: *See—*
Strobel, Alfons; and Sommerschuh, Lothar,3,461,827.

Sommerud, Rolf Gunnar; Holmboe, Christian Fredrik; and De Lorme, James F., to International Telephone and Telegraph Corporation. Phase detector for harmonically related signals. 3,447,081, 5-27-69, Cl. 324-85.
Sommerville, Gerald George: *See—*
Paterson, James Deas; and Sommerville, Gerald George,3,435,931.
Sommo, Andrea, & C. S.n.c.: *See—*
Sommo, Andrea, 3,462,098.
Sommo, Andrea, to Sommo, Andrea, & C. S.n.c. Wire dispensing device. 3,462,098, 8-19-69, Cl. 242-129.8
Somos, Istvan: *See—*
Piccone, Dante E.; and Somos, Istvan,3,440,501.
Son, Marion O., Jr.: *See—*
Patton, James W.; and Son, Marion O., Jr.,3,439,026.
Patton, James W.; and Son, Marion O., Jr.,3,487,106.
Patton, James W.; and Son, Marion O.,3,439,027.
Sondej, Robert M., to Chrysler Corporation. Vehicle safety control apparatus having a self- adjusting switch. 3,423,549, 1-21-69, Cl. 200-61.88
Sondej, Vincent S.: *See—*
Bajcar, Miles S.; Madsen, Ditlev Peder; and Sondej, Vincent S.,3,482,508.
Crawford, Louis L.; Christensen, Thor E.; Sondej, Vincent S.; and Bajcar, Miles S.,3,461,482.
Sondell Research & Development Company: *See—*
Patterson, James A., 3,437,266.
Patterson, James A., 3,463,320.
Sone, Eliot: *See—*
Carlson, Carl O.; Bernstein, Herbert L.; and Sone, Eliot,3,465,352.
Sonel: *See—*
Johnson, Don E., 3,462,175.
Sonet, Gilbert: *See—*
Cousin, Maurice; Klein, Robert; Loiselet, Yves; and Sonet, Gilbert,3,456,125.
Songhurst, Cecil James: *See—*
Allen, Geoffrey William; and Songhurst, Cecil James,3,456,397.
Songrand Corporation, The: *See—*
McNair, Samuel, 3,467,080.
Sonía, John; and Pouncy,Hillard W., Jr., to Union Carbide Corporation. Multi-channel tubular extrusion die. 3,419,938, 1-7-69, Cl. 18-14.
Sonkin, Ronald M., to General Dynamics Corporation. High-power amplifier utilizing hybrid combining circuits. 3,445,782, 5-20-69, Cl. 330-124.
Sonksen, Arno: *See—*
Volkner, Wolfgang; Sonksen, Arno; and Schultz, Herbert,3,420,476.
Sonnberger, Horst: *See—*
Kraus, Alexander; and Sonnberger, Horst,3,486,161.
Sonne, William K. Releasable display card mounting method. 3,453,760, 7-8-69, Cl. 40-124.
Sonnemann, George: *See—*
Smith, Russell R.; and Sonnemann, George,3,479,471.
Sonnenberg, Charles F.; Whiteside, Joseph J.; and Painter, Dennis G., to Westinghouse Electric Corporation. Protective rain shield and electric field grading apparatus for use on a high voltage insulator. 3,459,881, 8-5-6, Cl. 174-144.
Sonnenberg, Frederic A.; and DeVries, George, to Foxboro Company, The. Sanitary liquid level measurement device. 3,479,865, 11-25-69, Cl. 73-299.
Sonnenberg, Joseph: *See—*
Boldebuck, Edith M.; and Sonnenberg, Joseph,3,440,203.
Sonnenfeld Richard J., to Phillips Petroleum Company. Polymers of at least one aromatic dialdehyde and dithiooxamide and a method for making same. 3,457,231, 7-22-69, Cl. 260-72.
Sonnenfeld, Richard J.: *See—*
Trepka, William J.; and Sonnenfeld, Richard J.,3,450,685.
Sonnet Tool & Manufacturing Company: *See—*
Sunderman, Elwin; and Hilliard, Merle, 3,444,781.
Sonnleitner, David: *See—*
Hazdra, James J.; Sonnleitner, David; and Wesolowski, Wyne E.,3,434,817.
Sonntag, George E. Recorder with self-erasing chart. 3,434,153, 3-18-69, Cl. 346-21.
Sonntag, Orville C.: *See—*
Anderson, Bruce D.; and Sonntag, Orville C.,3,486,448.
Sonntag, Peter Erich: *See—*
Offermann, Peter Rudolf; Pilz, Siegfried Walter; and Sonntag, Peter Erich,3,456,461.
Sonobe, Kozo; and Nakaoka, Toshio, to Nippon Chemical Industrial Co., Ltd. Process for the manufacture of hydroxybenzonitriles. 3,457,293, 7-22-69, Cl. 260-465.
Sonobond Corporation: *See—*
Maropis, Nicholas; and Jones, James Byron, 3,429,028.
Sonoco Manufacturing, Inc.: *See—*
Hanson, Harvey E., 3,420,994.
Sonoco Products Company: *See—*
Cunningham, Mc Cleery B.; and Dunlap, Charles K., Jr., 3,451,433.
Cunningham, McCleery B.; and Dunlap, Charles K., Jr., 3,429,522.
Cunningham, McCleery B., 3,430,543.
Cunningham, McCleery B.; and Dunlap, Charles K., Jr., 3,455,521.
Dunlap, Charles K., Jr.; and Fink, James A., 3,468,733.
Dunlap, Charles K., Jr.; Johnson, Walter E.; and Harper, William M., 3,477,631.
Fletcher, Wade D., 3,425,149.
Hawkins, Willard S., 3,450,370.
Le Hardy, Clement D., 3,432,112.
Whaley, Baynard R.; and Bradley, William D., 3,421,550.
Sonoda, Sanenobu: *See—*
Yamamoto, Yoshihiro; Yoshihara, Mitsuo; Ikeguchi, Takeru; and Sonoda, Sanenobu,3,476,702.
Sonomotive Engineering Limited: *See—*
James, David Richard, 3,456,741.
James, David Richard, 3,456,742.
Sonomotive Engineers Limited: *See—*
James, David Richard, 3,460,636.
Sonoptics Corporation: *See—*
Robinson, Seymour D., 3,427,480.
Sonotone Corporation: *See—*
Bauer, Egon, 3,475,566.
Christian, Le Roy, 3,451,857.
Collins, Jerome F., 3,439,921.
Collins, Jerome F., 3,475,032.
Collins, Jerome F.; and Shatavsky, Morris S., 3,475,565.
Knauert, William F.; and Molloy, Martin, 3,439,129.
Michalko, Ignatius, 3,421,945.
Muttick, Richard P.; Di Vico, Louis A.; and Kantrowitz, Philip, 3,426,163.
Yehiely, David, 3,470,025.
Sons, Charles C., Jr., to Caterpillar Tractor Company. Ply configuration for pneumatic tires. 3,431,963, 3-11-69, Cl. 152-356.
Sons, Charles C., Jr., to Caterpillar Tractor Company. Tire bead shield. 3,448,783, 6-10-69, Cl. 152-362.
Sons, Charles C., Jr., to Caterpillar Tractor Company. Tire patch for repairing pneumatic tires. 3,448,784, 6-10-69, Cl. 152-370.
Sons, Charles C., Jr., to Caterpillar Tractor Company. Independent wheel suspension for minimizing universal-jointed shaft wear. 3,460,646, 8-12-69, Cl. 180-73.
Sonsthagen, Leif Asbjornson. Process for dispersing pigments in liquid media. 3,460,767, 8-12-69, Cl. 241-16.
Sontag, Hans-Jurgen: *See—*
Bauer, Heinrich; Romgens, Hans; Sontag, Hans-Jurgen; and Zeppelzauer, Franz,3,451,871.
Sontag, Howard M.; and Bernhardt, Milton, to Executone, Inc. Remote sound monitoring and control system. 3,475,751, 10-28-69, Cl. 340-416.
Sontheimer, Carl G.; and Fredrick, Raymond E., Jr., to Anzac Electronics, Inc. Broadband directional coupler. 3,426,298, 2-4-69, Cl. 333-10.
Sony Corporation: *See—*
Hoshi, Kinji; and Wakamiya, Kinji, 3,471,754.
Iwata, Saburo; and Misawa, Akira, 3,475,661.
Kamoji, Yoshiaki; and Nakamura, Shoichi, 3,461,249.
Kanaoka, Takao; Morio, Minoru; and Yoneda, Hajime, 3,484,648.
Kawamoto, Takuya; Sakoda, Shunsuke; and Hattori, Mitsuhiro, 3,449,726.
Kihara, Nobutoshi; and Wada, Yuji, 3,431,353.
Kihara, Nobutoshi, 3,435,154.
Kihara, Nobutoshi, 3,470,315.
Kihara, Nobutoshi, 3,470,316.
Kihara, Nobutoshi, 3,470,317.
Kishi, Kanesuke; Kawakami, Hirotake; and Yamanouchi, Kiyoshi, 3,449,523.
Matsumoto, Tadashi, 3,480,740.
Miyaoka, Senri, 3,452,242.
Morita, Tsuneo, 3,478,177.
Nagai, Tamiji, 3,478,258.
Ohgoshi, Akio; Shimada, Satoshi; and Miyaoka, Senri, 3,467,881.
Ohkoshi, Akio; Nii, Takehiko; and Tsukamura, Yoshihiro, 3,437,868.
Shimada, Satoshi; and Ohkoshi, Akio, 3,444,421.
Shimada, Satoshi; and Nishigaki, Shigeru, 3,472,951.
Tamura, Michio; and Nakamura, Yoshi, 3,440,080.
Tamura, Michio, 3,451,812.
Tetsuo, Tokita; Morio, Minoru; and Tobari, Masakatsu, 3,462,638.
Tokita, Tetsuo; Morio, Minoru; and Asano, Ryozo, 3,452,240.
Uemura, Saburo; and Iijima, Hajime, 3,456,143.
Wakamiya, Kinji, 3,442,723.
Yamada, Masami; Tamura, Michio; and Adachi, Hiroshi, 3,437,482.

Yoshida, Susumu; Tsuboi, Takamitsu; and Ueno, Kiichi, 3,444,416.
Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu, 3,448,316.
Soo Valley Company: *See—*
Howald, Arthur M., 3,486,839.
Richardson, Hal R.; and Howald, Arthur M., 3,486,266.
Sood, Ravinder K., to United States of America, Atomic Energy Commission. Method of deaerating sea water. 3,458,972, 8-5-69, Cl. 55-54.
Soodak, Charles: *See—*
Miller, C. David; Soodak, Charles; and Priarone, Paul,3,430,864.
Sookne, Arnold Maurice; and Berch, Julian, to Allied Chemical Corporation, mesne. Process for softening fabric and product thereof. 3,442,694, 5-6-69, Cl. 117-126.
Sookne, Arnold M.: *See—*
Berch, Julian; and Sookne, Arnold M.,3,475,207.
Sooy, Walter R.: *See—*
Woodbury, Eric J.; and Sooy, Walter R.,3,464,026.
Soper, Arthur John Compton, to Creed & Company Limited. Apparatus for reading information from information bearing media. 3,446,944, 5-27-69, Cl. 235-61.11
Soper, Arthur John Compton: *See—*
Turner, Frederick James Leslie; Soper, Arthur John Compton; and Morel, Harold Louis,3,450,321.
Soper, David Kenneth: *See—*
Greenhalgh, William; and Soper, David Kenneth,3,484,011.
Soper, Jseph W. Keratometer with adjustable fixation target attachment for determining corneal topogarphy. 3,432,227, 3-11-69, Cl. 351-13.
Soper, Quentin F., to Lilly, Eli, and Company. Process of selectively eliminating weeds. 3,442,639, 5-6-69, Cl. 71-121.
Soper, Quentin F., to Lilly, Eli, and Company. Nematocidal methods employing 2-perfluoroalkyl- benzimidazoles. 3,443,015, 5-6-69, Cl. 424-273.
Soper, Quentin F., to Lilly, Eli, and Company. N^2, N^2-Dialkyl-3-nitro-5-trifluoromethyl-0- phenylenediamines. 3,466,329, 9-9-69, Cl. 260-577.
Sopher, Raeman P.: *See—*
Napier, John; Sopher, Raeman P.; Totta, Paul A.; De Witt, David; and Karan, Clarence,3,458,925.
Soprani, Paolo Settimio. Switches and mechanism for forming chords in electronic musical instruments. 3,432,635, 3-11-69, Cl. 200-166.
Sor, Kamil; and Munday, John C., to Esso Research and Engineering Company. Amine treatment-building materials. 3,457,090, 7-22-69, Cl. 106-281.
Soraci, Oreste: *See—*
Pennell, Kit E.; and Soraci, Oreste,3,483,958.
Sorapure, Victor Edgar: *See—*
Randall, David Corbet; and Sorapure, Victor Edgar,3,439,875.
Sorbie, Thomas B., to Owens-Illinois, Inc. Bottle gauging. 3,420,369, 1-7-69, Cl. 209-80.
Sordello, Frank J.: *See—*
Black, Robert J.; and Sordello, Frank J.,3,427,606.
Sordello, Frank J., to International Business Machines Corporation. Fine and coarse motor positioning control for a magnetic disc memory. 3,458,785, 7-29-69, Cl. 318-18.
Kurzwell, Fred, Jr.; and Sordello, Frank J.,3,475,734.
Soredal, Sven Gunnar: *See—*
Falk, Sven Uno; Jonsson, Erik; and Soredal, Sven Gunnar,3,443,996.
Soref, Samuel M.; and Foote, Daniel J., to Master Lock Company. Padlock bumper and indicia band. 3,453,758, 7-8-69, Cl. 40-21.
Soreng, John E.; and Cobb, Jesse M., to Indak Manufacturing Corporation. Electrical switches with plural breaks. 3,472,975, 10-14-69, Cl. 200-16.
Sorensen, Carl; and Molgard, Age, to Danfoss A/S. Surface mount mixing valve. 3,431,938, 3-11-69, Cl. 137-359.
Sorensen, Emil: *See—*
Topsoe, Haldor Frederik Axel; Sorensen, Emil; and Mogensen, Erik,3,451,949.
Sorensen, Hans O., to Hewlett-Packard Company. Beam position detector. 3,435,232, 3-25-69, Cl. 250-203.
Sorensen, Kenneth G. Fluid mixing and tank filling system and control circuit for the same. 3,437,108, 4-8-69, Cl. 137-392.
Sorensen, Roald H. Exercise device with tethered projectile. 3,442,510, 5-6-69, Cl. 273-26.
Sorensen, Robert P., to Anderson Bros., Mfg., Co. Packaging apparatus and method. 3,436,894, 4-8-69, Cl. 53-37.
Sorensen, Robert P.; and Strombeck, Leo, to Anderson Bros., Mfg., Co. Packaging method and apparatus. 3,466,838, 9-16-69, Cl. 53-29.
Sorensen, Svend E., to Borg-Warner Corporation. Selective control for an ice maker. 3,459,005, 8-5-69, Cl. 62-138.
Sorensen, Svend E.; and McHale, William L., to Battelle Development Corporation, The, mesne. Ignition system for free-piston engine. 3,446,197, 5-27-69, Cl. 123-149.
Sorensen, Svend E.; and McHale, William L., to Battelle Development Corporation, The, mesne. Piston connection for free-piston engine. 3,478,651, 11-18-69, Cl. 92-152.
Sorensen, Svend E.: *See—*
McHale, William L.; and Sorensen, Svend E.,3,448,959.
Sorenson, Ben E.: *See—*
Ikeda, Carol K.; and Sorenson, Ben E.,3,471,517.
Sorenson, Bill W., to New American Co., Inc., mesne. Portable bleacher structure. 3,451,361, 6-24-69, Cl. 108-50.
Sorenson, Charles E.: *See—*
Katz, Friedrich J.; Pfeiffer, Gene F.; and Sorenson, Charles E.,3,443,756.
Sorenson, James L., to Sorenson Research Corporation. Catherter placement unit. 3,463,152, 8-26-69, Cl. 128-214.4
Sorenson, James L.: *See—*
Ring, Wallace H.; Pannier, Karl A., Jr.; and Sorenson, James L.,3,459,183.
Sorenson Research Corporation: *See—*
Sorenson, James L., 3,463,152.
Sorenson, Theodore I. Fertilizer attachment for grain seeders. 3,453,977, 7-8-69, Cl. 111-36.
Sorenson, Wayne R: *See—*
Maxson, Orwin G.; and Sorenson, Wayne R,3,468,864.
Miller, Donald B.; McClaflin, Gifford G.; and Sorenson, Wayne R.,3,432,513.
Sorg, John H., Jr.: *See—*
Kennedy, Joseph C.; and Sorg, John H., Jr.,3,465,287.
Sorge, Richard M.: *See—*
Rispoli, Joseph M.; Finucane, Thomas P.; and Sorge, Richard M.,3,473,931.
Sorgenti, Harold A., to Atlantic Richfield Company. Method for the production of monoalkylbenzenes. 3,478,118, 11-11-69, Cl. 260-671.
Soriano, Charles A., to Miller-Stephenson Chemical Company, Inc. Portable aspirators. 3,450,335, 6-17-69, Cl. 230-95.
Soriano, Charles A. Adhesive tape dispensers. 3,468,743, 9-23-69, Cl. 156-584.
Soriente, Alfonse J.; and Duff, Joseph H., to Union Tank Car Company. Underdrain strainers. 3,472,382, 10-14-69, Cl. 210-279.
Sorkin, Howard: *See—*
Manson, John A.; and Sorkin, Howard,3,461,075.
Sorkin, Jack L.: *See—*
Adams, Dolor N.; Sorkin, Jack L.; and Thomas, Daniel C.,3,455,688.
Sorkin, Morris. Three speaker stereophonic audio system. 3,478,167, 11-11-69, Cl. 179-1.
Sorlie, Norman L., to Whirlpool Corporation. Method of forming electrical elements. 3,444,618, 5-20-69, Cl. 29-629.
Sorlie, Norman L., to Whirlpool Corporation. Food waste grinder hopper. 3,486,703, 12-30-69, Cl. 241-100.5
Sorm, Frantisek: *See—*
Skoda, Jan; Hess, Vilem; and Sorm, Frantisek,3,468,759.
Sornsen, Wallace V., to Hawkinson, Paul E. Stitching machine and tire builder. 3,423,272, 1-21-69, Cl. 156-410.
Sorochan, Walter G.: *See—*
Miller, Roger M.; Mueller, Bruno; and Sorochan, Walter G.,3,446,884.
Sorokin, Peter P., to International Business Machines Corporation. Multiple photon laser. 3,483,486, 12-9-69, Cl. 331-94.5
Sorrell, John E. Portable travel lock. 3,432,199, 3-11-69, Cl. 292-292.
Sorrells, John R.: *See—*
Rosenberg, Harold J.; Sorrells, John R.; and Trent, Joseph E.,3,420,368.
Sorrentino, Anthony V. Manually variable pitch propeller. 3,482,261, 12-2-69, Cl. 416-137.
Sorrentino, Ralph P.: *See—*
Findlan, John C.; Sorrentino, Ralph P.; and Wakeman, Rginald L.,3,484,523.
Sorsche, Joachim: *See—*
Muller, Josef; Sorsche, Joachim; and Muller, Alf John,3,473,620.
Sorsky, Gideon: *See—*
Lorch, Hermann Richard; and Sorsky, Gideon,3,469,307.
Sorstokke, Harold E., to Stauffer Chemical Company. Process for preparation of dialkyl phosphonates. 3,420,921, 1-7-69, Cl. 260-976.
Sorvall, Ivan Inc.: *See—*
Blum, Josef; and Filz, Charles J., 3,420,437.
Sosalla, Harry L.: *See—*
Jarnagan, Max; and Sosalla, Harry L.,3,482,602.
Sosenko, Alexandr Borisovich: *See—*
Livshits, Abram Lazarevich; Rogachev, Ivan Sergeevich; Sosenko, Alexandr Borisovich; and Benin, Vladimir Lvovich,3,430,025.
Livshits, Abram Lazarevich; Aronov, Anatoly Lzrailevich; Kravets, Arkady Timofeevich; and Sosenko, Alexandr Borisovich,3,467,807.

Soshea, Richard W. Surface barrier semiconductor limiter employing low barrier height metals on silicon. 3,486,086, 12-23-69, Cl. 317-235.
Soshea, Richard W.; and Zettler, Robert A., to Hewlett-Packard Company. Hybrid semiconductor device including diffused- junction and Schottky-barrier diodes. 3,463,971, 8-26-69, Cl. 317-234.
Sosnowicz, Edward J.; and Willis, Frank M., to Du Pont de Nemours, E. I., and Company. Fastener setting device. 3,442,105, 5-6-69, Cl. 72-56.
Sosnowski, Louis J., Jr.; and Haller, Samuel L., to Dow Chemical Company, The. Apparatus for flanging thermoplastic lined pipes. 3,448,491, 6-10-69, Cl. 18-19.
Sossong, Henry J.: *See—*
Lovingham, Joseph J.; and Sossong, Henry J.,3,431,732.
Sotek, Stanley J., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Adjustable warp stop motion for looms. 3,421,552, 1-14-69, Cl. 139-369.
Soter, Samuel A.: *See—*
Davidson, Robert E.; Eads, Charles L.; and Soter, Samuel A.,3,479,851.
Soteropulos, Gust: *See—*
Burrough, Donald E.; Fairbank, Raymond Harry; and Soteropulos, Gust,3,469,381.
Soteropulos, Gust, to Deere & Company. Agricultural machine with alternate caster wheel positions. 3,455,406, 7-15-69, Cl. 180-27.
Soteropulos, Gust, to Deere & Company. Combination mower, conditioner and windrower. 3,479,805, 11-25-69, Cl. 56-23.
Soteropulos, Gust, to Deere & Company. Tractor-mounted bale thrower. 3,480,164, 11-25-69, Cl. 214-42.
Soteropulos, Gust; Burrough, Donald E.; and Fairbank, Raymond Harry, to Deere & Company. Header control means for a harvester. 3,485,020, 12-23-69, Cl. 56-212.
Soteropulos, Gust; and McClellan, Marcus Earl, to Deere & Company. Machine for wafering hay and like crops. 3,485,016, 12-23-69, Cl. 56-1.
Sotheran, Arthur: *See—*
Parnell, David Harding; and Sotheran, Arthur,3,479,823.
Soto, Ricardo Hurtado. Method of forming flexible ampoules. 3,453,797, 7-8-69, Cl. 53-14.
Soto, Ricardo Hurtado. Flexible ampoule. 3,474,789, 10-28-69, Cl. 128-272.
Sotome, Hiromi, to Nippon Gakki Seizo Kabushiki Kaisha. Loudspeaker. 3,483,946, 12-16-69, Cl. 181-32.
Sotome, Hiromi: *See—*
Mochida, Yasunori; Kurokawa, Ikuji; Ishimura, Kazukiyo; and Sotome, Hiromi,3,464,514.
Sotory, Gene E. Child-safe pill box. 3,421,347, 1-14-69, Cl. 70-63.
Sotsky, George R.: *See—*
Bickel, August H.; and Sotsky, George R.,3,469,926.
Soucek, Charles A.: *See—*
Earle, Ralph H.; Schmalz, Alfred C.; and Soucek, Charles A.,3,433,853.
Soucy, Eugene H. Magnetic hammer handle cap. 3,425,468, 2-4-69, Cl. 145-30.
Soucy, Philippe, to Uniroyal, Inc. Electrically grounded hose. 3,457,359, 7-22-69, Cl. 174-47.
Soudain, Georges: *See—*
Carpentier, Serge; Delarue, Roger; Francois, Henri; Grand-Clement, Anne-Marie; Portal, Guy; and Soudain, Georges,3,449,136.
Soudek, Josef: *See—*
Kaspar, Jan; Soudek, Josef; and Gutwirth, Karel,3,437,208.
Nemec, Jindrich; Kaspar, Jan; and Soudek, Josef,3,477,575.
Souders, Elsie Natalie. Removable maternity insert panels. 3,431,562, 3-11-69, Cl. 2-221.
Souffie, Robert David, to Du Pont de Nemours, E. I., and Company. Olefin adhesives, articles and compositions thereof. 3,449,204, 6-10-69, Cl. 161-243.
Soughworth, Hamilton, Jr.; and Stiles, John C., to General Precision Systems Inc. Bifurcate resonance column. 3,440,888, 4-29-69, Cl. 73-517.
Soukup, Victor G.; and Horst, Raymond W., to Cincinnati Milling Machine Co., The. Panels for printed circuit manufacture and process for making the same. 3,477,900, 11-11-69, Cl. 161-194.
Soulary, Pierre, l'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude. Wires for arc welding having a low carbon core and a zinc coating. 3,431,091, 3-4-69, Cl. 29-183.5
Soule, Donald T., to Reliance Electric and Engineering Company, The. Elevator hatch equipment mounting bracket assembly. 3,444,961, 5-20-69, Cl. 187-1.
Soule Steel Company: *See—*
Lange, Herbert, 3,469,350.
Soulen, John Richard; and Schwartz, William Ford, to Pennsalt Chemicals Corporation. High temperature, short contact-time pyrolysis of dichlorofluoromethane with methane. 3,428,695, 2-18-69, Cl. 260-653.
Soulen, John Richard; and Schwartz, William Ford, to Pennsalt Chemicals Corporation. High temperature, short contact-time pyrolysis of trichlorofluoromethane. 3,472,904, 10-14-69, Cl. 260-653.
Soules, Charlie J. Rotary gripper transfer mechanism. 3,430,750, 3-4-69, Cl. 198-25.
Soulez-Lariviere, Jean: *See—*
Havette, Claude; Lazareff, Michel; and Soulez-Lariviere, Jean,3,447,741.
Soulier, Joe. Device for the diffusion and distribution of high frequency energy in a resonant cavity for preheating and baking of non-metallic materials and the like. 3,474,211, 10-21-69, Cl. 219-10.55
Soulier, Robert A.: *See—*
Cudd, William H.; and Soulier, Robert A.,3,442,313.
Souma, Isao: *See—*
Shindo, Akio; Fujii, Rokuro; and Souma, Isao,3,427,120.
Souminen, Heikki S. Bag and closure means. 3,462,068, 8-19-69, Cl. 229-54.
Soupenne, Henri, to Compagnie des Compteurs. Overthrow preventing mechanism. 3,471,085, 10-7-69, Cl. 235-131.
Soupenne, Henri, to Compagnie des Compteurs. Zero-setting device. 3,471,086, 10-7-69, Cl. 235-144.
Soupirot, Joel: *See—*
Molho, Fred; and Soupirot, Joel,3,487,405.
Souresny, Herbert: *See—*
Kohl, Heinz; and Souresny, Herbert,3,476,555.
Sourgens, Roger P., to Societe d'Applications Generales d'Electricite et de Mecanique. Telegraphic code converter. 3,422,221, 1-14-69, Cl. 178-26.
Sourgens, Roger P., to Societe d'Applications Generales d'Electricite et de Mecanique, S.A.G.E.M. Systems for protection against errors in transmission. 3,439,327, 4-15-69, Cl. 340-146.1
Sourgens, Roger P., to Societe d'Applications Generales d'Electricite et de Mecanique. Data-transmission system. 3,484,745, 12-16-69, Cl. 340-146.1
Sousa, Anthony A.: *See—*
Arnold, Donald R.; and Sousa, Anthony A.,3,478,043.
Manning, David T.; and Sousa, Anthony A.,3,472,935.
South African Inventions Development Corporation: *See—*
Cabion, Paul J.; and Feje, Jules A., 3,434,147.
South African Iron and Steel Industrial Corporation Limited: *See—*
Anderson, Ernest L., 3,428,437.
Barnard, Jan Hendrik; and Toet, Dick, 3,439,911.
South, Arthur John, to Combustion Engineering, Inc. Steam generators. 3,461,846, 8-19-69, Cl. 122-235.
South Bend Range Corporation: *See—*
Lotter, William; and De Vos, Frank, 3,463,138.
South Pacific Company: *See—*
Frohbach, Hugh F., 3,474,260.
South, Richard P.: *See—*
Bement, Lyle W.; Morning, William L.; Benjamin, James E.; South, Richard P.; Thompson, Richard B.; and Anglin, James M.,3,460,032.
South, Robert F., to Beta Corporation. Engine analyzer. 3,456,499, 7-22-69, Cl. 73-117.2
South, William H., to Westinghouse Electric Corporation. Phase angle detector. 3,427,471, 2-11-69, Cl. 307-232.
Southall, Kenneth, to Neptune Meter Company. Magnetic coupling. 3,442,126, 5-6-69, Cl. 73-257.
Southam, Donald L.: *See—*
Stotzer, Roger H.; and Southam, Donald L.,3,477,712.
Southard, George G. D., to North Electric Company. Ball path computer system. 3,428,313, 2-18-69, Cl. 273-54.
Southard, James S., to Conn, C. G., Ltd. Percussion system. 3,433,880, 3-18-69, Cl. 84-1.17
Southard, James S.; and Wolfanger, Curt R., to Conn, C. G., Ltd. Acoustic system. 3,424,850, 1-28-69, Cl. 84-1.26
Southard, James S.: *See—*
Shallenberger, Larry R.; and Southard, James S.,3,470,785.
Southard, Nancy L. Sun chair. 3,461,878, 8-19-69, Cl. 128-372.
Southco, Inc.: *See—*
Barry, John K., 3,446,524.
Barry, John K., 3,451,707.
Barry, John K., 3,461,772.
Bisbing, Robert H., 3,425,729.
Bisbing, Robert H., 3,466,076.
Southerland, Arthur, Jr.; Cirer, Frank H.; and Anderson, Alfred G., to United States of America, Navy. Personnel transfer capsule handling system. 3,480,157, 11-25-69, Cl. 212-41.
Southern Athletic, Inc.: *See—*
Davenport, Stanley, Jr., 3,484,868.
Southern California Gas Company: *See—*
Linden, Henry R.; Baker, Bernard S.; Meek, John; and Allen, Arthur C., 3,438,759.
Southern Counties Gas Company of California: *See—*
Linden, Henry R.; Baker, Bernard S.; Meek, John; and Allen, Arthur C., 3,438,759.
Southern Crate & Veneer Company: *See—*
Truesdel, Lem D.; and Simmons, William P., Jr., 3,450,292.
Southern, Edward J. Photographic film magazine. 3,476,027, 11-4-69, Cl. 95-31.

Southern Illinois University Foundation: *See—*
Meyer, Herbert J.; Daugherty, Charles A., Jr.; and Novy, John R., 3,480,738.
Spackman, Robert R., Jr.; and Johnson, Marvin E., 3,466,931.
Thomas, Harold L., 3,438,633.
Southern Instruments Limited: *See—*
Henderson, Kenneth James; and Wilson, Donald, 3,469,797.
Wildy, Peter Charles; and Wilson, Donald, 3,434,358.
Southern Iron and Equipment Company, Inc.: *See—*
Brazell, James W.; Perkins, James T., Jr.; and White, Edwin L., 3,433,366.
Southern Lead Company: *See—*
Murph, Donald Bentley; and Pinkston, Jack L., 3,453,150.
Southern Mill Equipment Corporation: *See—*
Forrest, Joseph B.; and Hart, Gene E., 3,434,438.
Southern Mills, Inc.: *See—*
Schlemon, George, 3,462,051.
Terry, Claude E., 3,444,634.
Southern Mills, Inc., The: *See—*
Schlemon, George, 3,482,744.
Southern Oregon Reforestation, Inc.: *See—*
Thomas, Owen H.; and Watson, Cecil E., 3,444,940.
Southern Pacific Company: *See—*
Frohbach, Hugh F.; and Macovski, Albert, 3,457,363.
Frohbach, Hugh F., 3,470,325.
Frohbach, Hugh F.; and Macovski, Albert, 3,474,191.
Macovski, Albert, 3,470,314.
Southern Research Institute: *See—*
Kattus, James R.; and Morrison, Joseph D., 3,472,706.
Southern Textile Machinery Company, Incorporated: *See—*
Bounous, Daniel B., 3,446,166.
Sredl, Predrag V., 3,478,940.
Southern Textile Machiney Company, Incorporated: *See—*
DeSpain, Thomas H., 3,486,471.
Southern Weaving Company: *See—*
Rask, Stanley; Ross, Edgar A.; and Tatum, Odes D., Jr., 3,447,120.
Ross, Edgar A., 3,476,870.
Ross, Edgar A.; and Rask, Stanley, 3,479,565.
Southern, William C.; Wagner, Herbert M.; and Scholz, Raymond J., to Billmeyer, John, trustee of the estate of Western Monolithics Inc. Apparatus for forming a prefabricated fireplace. 3,466,000, 9-9-69, Cl. 249-93.
Southington Manufacturing, Inc.: *See—*
Kawecki, Ralph E., 3,430,929.
Kawecki, Ralph E., 3,430,930.
Southwell, Leslie H.; and Bjorknas, John. Fluid pressure responsive control apparatus. 3,446,119, 5-27-69, Cl. 91-419.
Southwest Research Institute: *See—*
Clark, John M., Jr.; Brown, Robinson W.; and Hemion, Roger H., 3,461,577.
Gunkel, Walter A.; and Van der Veer, William R., 3,437,917.
Gunkel, Walter A., 3,482,435.
Leep, Richard W.; and Pasley, Richard L., 3,427,872.
Rollwitz, William L.; and Benson, Harvey S., 3,431,551.
Southwestern Engineering Company: *See—*
McKibben, Richard K., 3,421,623.
McKibben, Richard K., 3,422,577.
Swallow, Douglas M., 3,425,554.
Swallow, Douglas M., 3,476,245.
Southwestern Industries, Inc.: *See—*
Culver, Irven H., 3,477,249.
Southwestern Nursery Supply Company: *See—*
Vatterott, Oskar F., 3,422,595.
Southwick, Elden M., 1/2 to Thornton, Harry D. Rack. 3,483,994, 12-16-69, Cl. 211-49.
Southwick, Gilbert G. Container. 3,472,568, 10-14-69, Cl. 312-31.
Southwire Company: *See—*
Bray, Thomas L., 3,464,484.
Cofer, Daniel B., 3,426,568.
Cofer, Daniel B.; Ward, George C.; Proctor, Dale D.; and Bray, Thoma L., 3,454,077.
Cofer, Daniel B.; and Bray, Thomas L., 3,464,483.
Cofer, Daniel B.; Ward, George C.; and Bray, Thomas L., 3,478,813.
Schoerner, Roger J.; and Rowland, Bobby A., 3,444,684.
Ward, George C.; Todd, Chester F.; Proctor, Dale D.; and Cofer, Daniel B., 3,469,620.
Southworth, Glen R., to Colorado Video Incorporated. Scan converter and television scan converter system. 3,478,164, 11-11-69, Cl. 178-6.6
Southworth, Hamilton, Jr., to Bell Telephone Laboratories, Incorporated. Guided subterranean penetrator systems. 3,465,834, 9-9-69, Cl. 173-2.
Southworth Machine Company: *See—*
Atwood, Lamar T., 3,463,485.
Southworth, Robert K.: *See—*
Glover, Wayne H.; Southworth, Robert K.; Rasmussen, David E.; Unterberg, William J.; and Louden, Max,3,439,188.
Souza, Augustine A. Sterilizer. 3,446,572, 5-27-69, Cl. 21-83.
Souza, Raymond L.: *See—*
Smith, Ward C.; and Souza, Raymond L.,3,485,740.
Sovex Limited: *See—*
Buckle, Richard Percy Stanley, 3,444,985.
Sowa, Frank J. Billiard ball rack. 3,423,087, 1-21-69, Cl. 273-22.
Sowa, Kurt Wilhelm Gunter, to Heim, Richard. Circuitry and method of striking thyristors in inverse-parallel operation. 3,443,185, 5-6-69, Cl. 318-227.
Sowa, Tuneo; Sato, Kenji; Ouchi, Shunji; Ohsawa, Takeyoshi; and Senoo, Saburo, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing nucleotide by a selective phosphorylation. 3,466,273, 9-9-69, Cl. 260-211.5
Sowa, Tuneo: *See—*
Ouchi, Shunji; Sowa, Tuneo; Tunoda, Kozo; and Senoo, Saburo,3,464,973.
Ouchi, Shunji; Yamada, Hiraku; Kameyama, Naohito; Kurihara, Masakazu; Senoh, Saburo; and Sowa, Tuneo,3,475,409.
Sowa, Zygmunt, to Ford Motor Company. Indexing spot welding apparatus. 3,469,059, 9-23-69, Cl. 219-80.
Sowards, Donald Maurice, to Du Pont de Nemours, E. I., and Company. Method of making thin-walled refractory structures. 3,473,987, 10-21-69, Cl. 156-89.
Sowder, Tony R. Tram hopper loader apparatus and method. 3,455,344, 7-15-69, Cl. 141-1.
Sowder, Tony R.; and Adams, Donald J. Tram carrier stabilizer. 3,486,462, 12-30-69, Cl. 104-173.
Sowell, Jack: *See—*
Ledford, William I.; and Sowell, Jack,3,442,111.
Sower, George W.; and Harmon, William C., to Republic Steel Corporation. Workpiece inspection apparatus in which sensor and power driven rollers are mounted on yieldable suspensions. 3,447,074, 5-27-69, Cl. 324-37.
Sowerby, Austen Edgar, to Marchon Products Limited. Production of sulphamic acid. 3,423,174, 1-21-69, Cl. 23-166.
Sowers, Edwin U., III: *See—*
Jones, Donnie Roland; and Sowers, Edwin U., III,3,468,327.
Sowers, Hal L.; Ruggieri, Dominic J.; and Balkwill, John T., to Optics Technology Inc. Electro-optic image intensifier and method of making same. 3,458,744, 7-29-69, Cl. 313-94.
Sowers, Lewis C.: *See—*
Page, Leo W.; Emery, Thomas A.; and Sowers, Lewis C.,3,440,359.
Sowers, Walker Morgan, to Sanders Associates, Inc. Multiple mode fluid amplifier. 3,460,556, 8-12-69, Cl. 137-81.5
Sowiak, Milton M.: *See—*
Artzt, Maurice; and Sowiak, Milton M.,3,444,319.
Sowinski, Francis Alexander: *See—*
Yale, Harry Louis; Sowinski, Francis Alexander; and Bernstein, Jack,3,454,598.
Yale, Harry Louis; and Sowinski, Francis A.,3,448,102.
Sowinski, Gerard T., to National Gypsum Company. Drywall top-edge casing. 3,460,298, 8-12-69, Cl. 52-98.
Sowman, Harold G.: *See—*
Johnson, James R.; and Sowman, Harold G.,3,436,307.
Johnson, James R.; and Sowman, Harold G.,3,454,396.
Soworowski, David R.: *See—*
Laughlin, John R.; and Soworowski, David R.,3,433,469.
Soya, Katsuji: *See—*
Tanaka, Yukio; Soya, Katsuji; and Yamagishi, Hitoshi,3,480,486.
Soyland, Ingebret; and Soyland, Kristian. Control systems for hydraulic power units. 3,433,131, 3-18-69, Cl. 91-447.
Soyland, Kristian: *See—*
Soyland, Ingebret; and Soyland, Kristian,3,433,131.
S.p.A. Cambi Idraulici Badalini: *See—*
Badalini, Giovanni, 3,464,206.
S.p.A. Lavorazione Materie Plastiche L.M.P.: *See—*
Colombo, Roberto, 3,421,182.
S.p.A. Virginio Rimoldi & C.: *See—*
Marforio, Nerino, 3,476,065.
Space Conditioning, Inc.: *See—*
Pratt, John N., 3,442,092.
Ripple, Ellis C., 3,448,243.
Space Control Corporation: *See—*
Hendricks, William W.; and Freeman, Lawrence M., 3,472,408.
Space Sciences, Incorporated: *See—*
Mellor, Clarence Howard; and Foley, James J., 3,466,200.
Young , Laurence R.; and Newman, Joel S., 3,473,868.
Space-General Corporation: *See—*
Sanders, Ray W., 3,480,865.
Spachman, James J., to Basic Incorporated. Shock resistant alumina refractory. 3,480,454, 11-25-69, Cl. 106-65.
Spacht, Ronald B., to Goodyear Tire & Rubber Company, The. Age resistors for rubber. 3,428,691, 2-18-69, Cl. 260-613.
Spacht, Ronald B., to Goodyear Tire & Rubber Company, The. Antiozonants. 3,432,460, 3-11-69, Cl. 260-45.9
Spacht, Ronald B., to Goodyear Tire & Rubber Company, The. Rubber compositions stabilized with mixtures of phenols. 3,468,845, 9-23-69, Cl. 260-45.95

Spackman, Ramon: *See—*
Clayton, Colin G.; and Spackman, Ramon,3,477,461.
Spackman, Robert R., Jr.; and Johnson, Marvin E., to Southern Illinois University Foundation. Muscle strength testing apparatus. 3,466,931, 9-16-69, Cl. 73-380.
Spademan, Charles F., to Industrial Nucleonics Corporation. Dielectric materials gauging system with input signal frequency automatically variable in response to a variation from a selected phase shift in the detected signal. 3,443,220, 5-6-69, Cl. 324-61.
Spademan, Richard G. Catheter adapted for fluid connection prior to insertion. 3,474,786, 10-28-69, Cl. 128-214.4
Spadini, Paolo A.; and Micheloud, Andre. Alarm wrist-watch. 3,462,943, 8-26-69, Cl. 58-57.5
Spadone Machine Company, Incorporated: *See—*
Sutherland, Walter J., 3,472,716.
Spadoni, Leon R.: *See—*
Herrmann, Walter L.; and Spadoni, Leon R.,3,485,751.
Spaeth, Mary L.: *See—*
Congleton, Robert S.; and Spaeth, Mary L.,3,471,800.
Spaghetti Factory, Inc.: *See—*
Fenerli, Ligor Gregory, 3,481,037.
Spagnuolo, Angelo: *See—*
Pingitore, Domenick C.; Spagnuolo, Angelo; and Ricci, John N.,3,433,192.
Spahn, Peter: *See—*
Pech, Franz; and Spahn, Peter,3,470,697.
Spahr, Louise Broadtoman. Bowling pin doll. 3,445,957, 5-27-69, Cl. 46-151.
Spahrbier, Dieter, to Varta Aktiengesellschaft. Plate assembly, cell and method for making same. 3,451,853, 6-24-69, Cl. 136-86.
Spahrkas, Heinrich: *See—*
Papayannis, Antonia; Zorn, Bruno; and Spahrkas, Heinrich,3,423,162.
Spaid, William L., to United States of America, Air Force. Binary number comparator circuit. 3,479,644, 11-18-69, Cl. 340-146.2
Spain, Ethel P. Eyeshield for use in hair-tinting and the like. 3,419,909, 1-7-69, Cl. 2-174.
Spain, Raymond G., to United States of America, Air Force. Vulcanization of fluorocarbon copolymers utilizing Schiff's bases. 3,424,710, 1-28-69, Cl. 260-41.
Spain, Robert J., to Cambridge Memory Systems, Inc., mesne. Domain tip propagation logic. 3,438,006, 4-8-69, Cl. 340-174.
Spain, Robert J., to Cambridge Memory Sytems, Inc. Domain tip propagation shift register. 3,438,016, 4-8-69, Cl. 340-174.
Spain, Robert J.; and Jauvtis, Harvey I., to Cambridge Memory Systems, Inc., mesne. Magnetic logic systems comprising stacked layers of magnetic films which contain low coercive force channels. 3,461,442, 8-12-69, Cl. 340-174.
Spain, Robert J.; and Jauvtis, Harvey I., to Cambridge Memory Systems, Inc., mesne. Non-reciprocal magnetic transmission paths formed in thin magnetic films. 3,465,316, 9-2-69, Cl. 340-174.
Spalding, A. G., & Bros., Inc.: *See—*
Marciniak, Emil J., 3,473,370.
Spalding, Ernest George Gerald, to Flexigrip, Inc. Sliding clasp fasteners. 3,460,208, 8-12-69, Cl. 24-201.
Spalding, Willard P., to Westinghouse Air Brake Company. Electrohydraulically controlled spring applied tread brake unit. 3,441,111, 4-29-69, Cl. 188-170.
Spalek, Raymond J.: *See—*
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B.,3,470,686.
Spalla, Celestino: *See—*
Amici, Alba Maria; Minghetti, Anacleto; Scotti, Tullio; Spalla, Celestino; and Tognoli, Luigi,3,485,722.
Bianchi, Maria Luisa; Franceschi, Giovanni; Marnati, Maria Pia; and Spalla, Celestino,3,467,579.
Cotta, Ernesto; Grein, Arpad; and Spalla, Celestino,3,454,469.
Spalti, Alfred, to Electrometre SA. System for interrogating remote stations via power lines of an electrical distribution network. 3,445,814, 5-20-69, Cl. 340-151.
Span, Samuel; and Thum, Walter. Magnetic game board having an intergral, roughly granulated upper surface. 3,433,478, 3-18-69, Cl. 273-1.
Spandorfer, Lester M.; and Belson, Henry S., to Sperry Rand Corporation. Memory arrangement. 3,482,223, 12-2-69, Cl. 340-174.
Spane, Victor L. Rafter and post structure connection. 3,425,720, 2-4-69, Cl. 287-20.92
Spanel, Abraham N., to International Playtex Corporation. Elastomeric girdle with spot bonded fabric lining. 3,455,306, 7-15-69, Cl. 128-521.
Spang, Edward B.: *See—*
McGara, Homer J.; and Spang, Edward B.,3,444,768.
Spangenberg, Clayton D., to Westinghouse Electric Corporation. Alkali metal generator. 3,468,807, 9-23-69, Cl. 252-181.4
Spangenberg, Peter E., to Barnes Engineering Company. Horizon sensor utilizing reflective telescope optics. 3,453,442, 7-1-69, Cl. 250-238.
Spangler, Carl D., Jr.; and Price, Walter J., to Nofsinger, C. W., Company, The. Moving bed adsorption apparatus. 3,442,066, 5-6-69, Cl. 55-390.
Spangler, Charles W., to General Electric Company. Speed control of moving paper responsive to transmittance of paper. 3,450,888, 6-17-69, Cl. 250-219.
Spangler, Edwin L., Jr.: *See—*
Murphy, Harry E., 3,477,645.
Spangler, Fred E.: *See—*
Myers, Richard T.; McKee, Thomas A.; Spangler, Fred E.; and Wright, Kenneth L.,3,470,481.
Spangler, Fred W.: *See—*
Ditzer, Joseph R., Jr.; and Spangler, Fred W.,3,457,072.
Ditzer, Joseph R., Jr.; and Spangler, Fred W.,3,458,317.
Kretchman, Charles M.; and Spangler, Fred W.,3,449,122.
Spangler, Myrtle Joanne, to Dan River Mills, Incorporated. Double bath treatment of cellulosic fabrics to impart crease resistance and high abrasion resistance thereto. 3,420,702, 1-7-69, Cl. 117-139.4
Spangler, Paul J., to ETC Incorporated. Cutting tool. 3,438,129, 4-15-69, Cl. 30-180.
Spangler, Paul J.; and Schmidt, Alfred W., Jr., to ETC Incorporated. Fluid-actuated crimping press. 3,423,815, 1-28-69, Cl. 29-203.
Spanjersberg, Arie Adriaan, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen Telegrafie en Telefonie. Automatic punching device. 3,436,010, 4-1-69, Cl. 234-34.
Spanjersberg, Arie Adriaan: *See—*
van Berkel, Petrus Ludovicus Maria; and Spanjersberg, Arie Adriaan,3,437,793.
Spann, Bob J. Barbless fishing spear. 3,482,349, 12-9-69, Cl. 43-6.
Spannhake, Ernst W.: *See—*
Kordik, Kenneth S.; Spannhake, Ernst W.; and Zaumseil, Dean R.,3,435,315.
Spannhake, Henry K., to International Business Machines Corporation. Electroless coating method for making printed circuits. 3,481,777, 12-2-69, Cl. 117-212.
Spanoudis, Louis, to Owens-Illinois, Inc. Copper coated glass article. 3,479,217, 11-18-69, Cl. 117-227.
Spanovich, Milan. Foundation systems. 3,464,215, 9-2-69, Cl. 61-53.52
Spanski, Paul L., to United States of America, Army. Soil shear deformation tester. 3,465,576, 9-9-69, Cl. 73-84.
Spar, Donald; and Spar, Robert B., to B & M Automotive, Inc. Drive for the oil pump of an automatic transmission coupled to an engine by a friction clutch. 3,455,422, 7-15-69, Cl. 192-105.
Spar, Robert B.: *See—*
Spar, Donald; and Spar, Robert B.,3,455,422.
Sparacio, Francis J.: *See—*
Anderson, David W.; Mizzi, John V.; and Sparacio, Francis J.,3,449,723.
Anderson, David W.; Sparacio, Francis J.; and Tomasulo, Robert M.,3,477,063.
Spare, Gordon T.: *See—*
Nickola, Richard A.; and Spare, Gordon T.,3,458,365.
Sparkler Manufacturing Company: *See—*
Kracklauer, Aloysius C., 3,447,690.
Kracklauer, Aloysius C., 3,483,978.
Reneau, James T., Jr., 3,428,176.
Sparks, Allen K.: *See—*
Cyba, Henryk A.; and Sparks, Allen K.,3,455,950.
Sparks, Allen K., to Universal Oil Products Company. Alkylation of aromatic compounds. 3,470,257, 9-30-69, Cl. 260-613.
Sparks, Allen K., to Universal Oil Products Company. Particularly substituted benzodiazoboroles. 3,481,978, 12-2-69, Cl. 260-551.
Sparks, Allen K.; and Dombro, Robert A., to Universal Oil Products Company. 3,6-Dihydroxy-1,2,3,6-tetrahydrophthalic acid, anhydride, derivatives and polymers thereof. 3,426,044, 2-4-69, Cl. 260-346.3
Sparks, Allen K.; and Dombro, Robert A., to Universal Oil Products Company. Substituted 3,6-dihydroxy-4-cyclohexenecarboxylic acids. 3,480,668, 11-25-69, Cl. 260-514.
Sparks, Brian Edmund, to Lucas, Joseph (Industries) Limited. Fuel supply control systems. 3,444,874, 5-20-69, Cl. 137-36.
Sparks, David W.; and Tessier, Jack H., to United States of America, Atomic Energy Commission. Stability improvement for nuclear reactor automatic control system. 3,483,081, 12-9-69, Cl. 176-20.
Sparks, George C. Apparatus for forming and filling tear-strip envelopes. 3,429,099, 2-25-69, Cl. 53-133.
Sparks, George C. Confectionery package. 3,459,356, 8-5-69, Cl. 229-15.
Sparks, George C.; and Hartman, Maurice D., Jr. In-line sealing machine. 3,447,284, 6-3-69, Cl. 53-209.
Sparks, Harold R.: *See—*
Brennan, John M.; and Sparks, Harold R.,3,463,547.
Sparks, Meredith P. Preparation of baked leavened products. 3,431,114, 3-4-69, Cl. 99-86.
Sparks, Richard A.; and Higgins, Edgar L., to Litton Systems, Inc. Elastic wave delay and parametric amplifier. 3,445,774, 5-20-69, Cl. 330-4.6
Sparks, Richard H.: *See—*
Banks, Hampden O.; and Sparks, Richard H.,3,461,954.
Sparks, Robert E., to Esso Research and Engineering Company. Emulsion dewaxing with immiscible liquid dispersed in a continuous oil wax slurry phase. 3,429,800, 2-25-69, Cl. 208-29.

Sparks, Robert J. Circulating device. 3,424,186, 1-28-69, Cl. 137-205.
Sparks, Thomas B.: *See—*
Merrill, Ralph K., Jr.; Burnett, Edward N.; and Sparks, Thomas B.,3,439,824.
Sparks, Thomas O.: *See—*
Holst, Albert J., Sr.; and Sparks, Thomas O.,3,452,963.
Holst, Albert Joseph, Sr.; and Sparks, Thomas O.,3,449,034.
Sparlin, Derry D.; and Bond, William C., to Continental Oil Company. Method for placing gravel packs. 3,443,637, 5-13-69, Cl. 166-33.
Sparling, Arthur J., to Hogan Faximile Corporation. Trim lever light compensator for reflected line image. 3,453,040, 7-1-69, Cl. 350-275.
Sparr, Anders V., Sr. Hose controlled switch for milk transfer systems. 3,456,590, 7-22-69, Cl. 103-25.
Sparrendahl, Gunnar Erik William: *See—*
Avsan, Oleg; Noren, Lars-Olof; Sparrendahl, Gunnar Erik William; and Svensson, Ake Bertil Fredrik,3,475,732.
Sparrow, Alan Wycliffe; and Kane, James Anthony, to Perkins Engines Limited. Fluid flow systems. 3,481,318, 12-2-69, Cl. 123-196.
Sparrow, Kenneth David: *See—*
Baylis, Eric Keith; Pickles, Wilfred; and Sparrow, Kenneth David,3,441,604.
Sparrow, Lawrence R.: *See—*
Pearce, Godfrey R.; Sparrow, Lawrence R.; and Braiman, Jerry,3,474,300.
Sparrow, Lawrence R.; and Braiman, Jerry, to Mallory, P. R., & Co., Inc. Encapsulated capacitor. 3,436,610, 4-1-69, Cl. 317-230.
Sparso, Viggo H.; and Larsen, Leif, to Anderson, Hans Christian. Hydraulic control system. 3,474,624, 10-28-69, Cl. 60-52.
Sparso, Viggo H.; and Nielsen, Anders, to Andersen, Hans Christian. Apparatus for the flat laying of stockings. 3,429,618, 2-25-69, Cl. 302-2.
Spartans Industries, Inc.: *See—*
Swaithes, Earl, 3,448,557.
Sparton Corporation: *See—*
Granfors, Ernest A.; Loveless, Don L.; Boyle, Charles F.; and Kompanek, Harry W., 3,444,508.
Mueller, John L., 3,461,938.
Spartus Corporation: *See—*
Booty, Donald J., 3,419,989.
Spat, Melvin: *See—*
Bernstein, Richard K.; and Spat, Melvin,3,481,712.
Spatafore, Robert M.: *See—*
Northrup, Walter E.; and Spatafore, Robert M.,3,471,903.
Spatz, Dale: *See—*
Jacobsen, Ronald Lowell; Kristoff, William Robert; Ohren, Tom H.; and Spatz, Dale,3,482,947.
Spatz Laboratories: *See—*
Spatz, Walter B., 3,424,831.
Spatz, Paul M.: *See—*
Briggs, Cecil Wallace; and Spatz, Paul M.,3,475,151.
Spatz, Sydney M.; and Lipka, Benjamin, to Allied Chemical Corporation. Stable triphenyl-methane dye leucos. 3,429,900, 2-25-69, Cl. 260-391.
Spatz, Walter B., to Spatz Laboratories. Methods for injection molding. 3,424,831, 1-28-69, Cl. 264-138.
Spaude, Robert W., to Allen-Bradley Company. Adjustable electronic component. 3,445,802, 5-20-69, Cl. 338-167.
Spaulding, David B., to International Telephone and Telegraph Corporation. Printing apparatus employing magnetic transfer band in which image impressions can be made. 3,477,368, 11-11-69, Cl. 101-150.
Spaulding, David B.; and Wisnia, Jeffry A., to Comstock & Wescott, Inc. Pulse responsive electrical meter circuit including means for producing pulses of predetermined current value. 3,437,926, 4-8-69, Cl. 324-70.
Spaulding Fibre Company, Inc.: *See—*
Gilbert, William E., 3,428,869.
Goodwin, Elmer C., Jr., 3,437,232.
Spaulding, Harold Ernest, to American Can Company. Machine for handling and treating articles in groups. 3,431,702, 3-11-69, Cl. 53-281.
Spaulding, Lawrence D.: *See—*
Harrier, Jack L.; and Spaulding, Lawrence D.,3,451,956.
Spauschus, Karl: *See—*
Jacoby, Hans; and Spauschus, Karl,3,435,963.
Speake, Roy Neville: *See—*
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian,3,457,274.
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian,3,464,891.
Speakman Company: *See—*
Pecis, John G.; and Fiorentino, Arthur A., 3,465,776.
Speakman, Edwin L., to Standard Brands Incorporated. Method of converting starch. 3,425,909, 2-4-69, Cl. 195-31.
Speakman, Edwin L., to Standard Brands Incorporated. Coated starch. 3,468,706, 9-23-69, Cl. 127-33.
Speakman, Eugene R., to McDonnell Douglas Corporation, mesne. Stress coining. 3,434,327, 3-25-69, Cl. 72-377.
Speakman, Frank P.: *See—*
Brittan, Kenneth Walter; and Speakman, Frank P.,3,473,895.
Speakman, Raymond Holden, to Imperial Chemical Industries Limited. Device for entraining and cutting a moving threadline. 3,452,626, 7-1-69, Cl. 83-98.
Spear, Clifton T. Device for introducing substances into a toilet bowl trap. 3,444,566, 5-20-69, Cl. 4-228.
Spear, J. H.: *See—*
Atchinson, Paul C., Sr., 3,473,515.
Spear, Ward G.: *See—*
Jackson, Charles N., Jr.; and Spear, Ward G.,3,461,286.
Spears, Jesse W.: *See—*
Goff, Willie, Jr.; and Spears, Jesse W.,3,424,292.
Spears, Jesse W., to International Business Machines Corporation. Ribbon tension control. 3,442,366, 5-6-69, Cl. 197-151.
Spears, John R.: *See—*
Martin, Robert W.; and Spears, John R.,3,479,077.
Spears, Loy Leonard: *See—*
Mayne, David W.; and Spears, Loy Leonard,3,466,630.
Speas, Charles A.; and Jordan, Charles T., to Hedwin Corporation. Method of forming mold for dual-chambered container partition. 3,433,867, 3-18-69, Cl. 264-225.
Specht, August J.: *See—*
Schuller, Barry; and Specht, August J.,3,428,585.
Specht, Edward H.: *See—*
Mettalia, Joseph B., Jr.; and Specht, Edward H.,3,476,797.
Specht, Herbert H., to Avco Corporation. Method for making satellite structure. 3,442,741, 5-6-69, Cl. 156-229.
Specht, Theodore R. Mechanism for raising and lowering outboard motors. 3,426,723, 2-11-69, Cl. 115-41.
Specht, Theodore R.; and Lake, Glen W., to Westinghouse Electric Corporation. Reactive power compensation by phase angle control and tap changer means. 3,422,343, 1-14-69, Cl. 323-43.5
Speciale, Rosario Aldo, to North American Philips Company, Inc. Device for accelerating particles. 3,427,557, 2-11-69, Cl. 328-234.
Specialized Mass Markets, Inc.: *See—*
Hartley, Arnold B.; and Fiedler, Marvin L., 3,455,557.
Specialty Converters, Inc.: *See—*
Willy, John, 3,468,987.
Speck, Roy E. Substances relating to testing of blood- coagulation. 3,486,981, 12-30-69, Cl. 195-99.
Speck, Stanley Brooke, to Du Pont de Nemours, E. I., and Company. Disazo sulfonic acid dyes. 3,485,814, 12-23-69, Cl. 260-186.
Speck, Werner: *See—*
Goerke, Rolf; Bisch, Helmut; Togel, Kurt; and Speck, Werner,3,478,207.
Specker, Hugo; and Mohrle, Dietrich, to Societe de la Viscose Suisse. Process for heat relaxing stretched polyamide filament. 3,436,450, 4-1-69, Cl. 264-237.
Speckhart, Stephen. Anti-recoil firearm. 3,483,648, 12-16-69, Cl. 42-10.
Spector, Gerald: *See—*
Kaminsky, Murray F.; and Spector, Gerald,3,440,409.
Spector, Marshall L.: *See—*
Stern, Eric W.; and Spector, Marshall L.,3,479,392.
Spector, Sanford; and Epstein, David, to Bilt-Rite Baby Carriage Co., Inc. Folding high chair with reclining back. 3,425,744, 2-4-69, Cl. 297-19.
Spectra International, Inc.: *See—*
Ackerman, Ernest B., 3,436,315.
Spectra-Physics, Inc.: *See—*
Bell, William E., 3,428,914.
Spectra-Physics, Inc.: *See—*
Bell, William E., 3,428,914.
Bell, William E., 3,449,694.
Bell, William E.; and Bloom, Arnold L., 3,464,024.
Bell William E., 3,464,025.
Clement, Carl J., 3,440,563.
Costich, Verne R., 3,487,230.
Lopez, Firmin O.; and Proskauer, Walter, 3,424,997.
Rempel, Robert C., 3,484,715.
Ruddock, Kenneth A., 3,446,971.
Spectrol Electronics Corporation: *See—*
Fletcher, Harry W., 3,437,975.
Paine, Bud A.; and Trautmann, Paul R., 3,456,227.
Wajdik, Joseph S., 3,450,091.
Spectronics Corporation: *See—*
Cooper, Bernard William; and Rubler, Jerome, 3,435,511.
Spectrospin A.G.: *See—*
Wegmann, Lienhard; and Gallo, Mario, 3,435,333.
Spectrum Diamonds (Proprietary) Limited: *See—*
Leibowitz, Alec, 3,466,812.
Leibowitz, Alec, 3,466,813.
Spedcor Electronics, Inc.: *See—*
Bellemare, Richard A., 3,469,142.
Dolan, William S., 3,471,029.
La Porta, John J., 3,432,762.
La Porta, John J., 3,432,848.

Spedden, Henry Rush; and Malouf, Emil E., to Kennecott Copper Corporation. Process for recovering copper from leach solutions. 3,476,554, 11r4-69, Cl. 75-109.
Spedden, Henry Rush; and Schellinger, Alfred Kenneth, to Kennecott Copper Corporation. Process of producing high purity alumina from aluminum-bearing, acidic, sulfate solutions. 3,436,176, 4-1-69, Cl. 23-143.
Spedden, Henry Rush; and Schellinger, Alfred Kenneth, to Kennecott Copper Corporation. Continuous process for removing multivalent impurities from copper-bearing leach solutions. 3,436,177, 4-1-69, Cl. 23-172.
Speed King Manufacturing Company, Inc.: *See—*
Massey, Ralph N., 3,456,818.
Speed Selector Inc.: *See—*
Cornell, Peter V. B., 3,421,724.
Speed-O-Print Business Machines Corporation: *See—*
Carlson, John W., 3,476,381.
Speedfam, Corporation: *See—*
Boettcher, Stephen A.; and Farley, James N., 3,457,682.
Speedrack Inc.: *See—*
Konstant, Anthony N., 3,475,044.
Schell, Burt E., Jr., 3,468,574.
Speedwell Research Limited: *See—*
Camac, George; and Saunders, David J., 3,429,268.
Speelman, Irving A., to Propper Manufacturing Co., Inc. Switch for battery handle. 3,430,514, 3-4-69, Cl. 74-527.
Speelman, Irving A., to Propper Manufacturing Co., Inc. Slide shipping and storing container. 3,463,301, 8-26-69, Cl. 206-1.
Speelman, Irving A., to Propper Manufacturing Co., Inc. Binaural tube supporting structure for stethoscopes. 3,483,943, 12-16-69, Cl. 181-24.
Speen, Gerald B.; and Turnblade, Richard C., to International Telephone and Telegraph Corporation. Double rotor pneumatic gyroscope. 3,446,082, 5-27-69, Cl. 74-5.12
Speen, Gerald B.; and Turnblade, Richard C., to Conductron Corporation. Gas lubricated reaction gyroscope. 3,482,454, 12-9-69, Cl. 74-5.
Speen, Gerald B.: *See—*
Edmonds, Thomas Rhys; Turnblade, Richard C.; and Speen, Gerald B.,3,451,289.
Speer, John R.: *See—*
Karlby, Henning; Grundy, Howard Reed; Speer, John R.; and Hall, George D.,3,427,484.
Speer, Ralph W.: *See—*
Ravreby, Fred A.; Palson, Richard C. J.; and Speer, Ralph W.,3,473,177.
Speer, Walter F.; and Simmons, James M., to RCA Corporation. Detent system. 3,477,299, 11-11-69, Cl. 74-10.41
Speers, Samuel F.; and Jacques, Norman L., to Hasbro Industries, Inc. Connection for use in toy figures. 3,475,042, 10-28-69, Cl. 287-14.
Speers, Samuel F.; Jacques, Norman L.; Guglielmi, Anthony C.; and Gray, Leonard, to Hasbro Industries, Inc. Toy vessel for use in water. 3,466,798, 9-16-69, Cl. 46-243.
Speeth, Sheridan D.; and Norem, Philip C., to Peninsula Research & Development Corporation Limited. Sound level visual indicator having control circuits for controlling plural lamps. 3,480,912, 11-25-69, Cl. 340-148.
Speheger, Stevan W., to Avco Corporation. Meter circuit including synchronized switching means for measuring the 'off' current in a train of pulses. 3,436,659, 4-1-69, Cl. 324-102.
Spehr, Eugen: *See—*
Lipsius, Johannes Martin; and Spehr, Eugen,3,443,528.
Speich, Pier Gianni. Rotary apparatus for preventing obscuring of the visibility through a windshield by the presence of condensate or water splashed thereon. 3,429,086, 2-25-69, Cl. 52-171.
Speicher, Charles A.: *See—*
Potts, Horton R.; and Speicher, Charles A.,3,420,719.
Speicher, Wallace L. Container having suspension means. 3,484,013, 12-16-69, Cl. 215-100.
Speidel, Blasius; and Keller, Paul. Manometer. 3,420,106, 1-7-69, Cl. 73-393.
Speidel, Blasius; and Keller, Paul. Manometer. 3,435,683, 4-1-69, Cl. 73-410.
Speier, John L., to Dow Corning Corporation. Preparation of organosilicon chlorides. 3,440,267, 4-22-69, Cl. 260-448.2
Speier, John L., to Dow Corning Corporation. Cyclic polysiloxanes. 3,445,425, 5-20-69, Cl. 260-46.5
Speier, John L., to Dow Corning Corporation. Novel mercaptoaryl silicon compounds. 3,465,015, 9-2-69, Cl. 260-448.2
Speier, John L., to Dow Corning Corporation. Organometallic aminosilicon compounds. 3,485,857, 12-23-69, Cl. 260-429.
Speier, John L.; Keil, Joseph W.; and Gowdy, William G., to Dow Corning Corporation. Room temperature curable copolymers of unsaturated organic polymers and mercaptosilanes. 3,440,302, 4-22-69, Cl. 260-825.
Speigelman, Solomon, to University of Illinois Foundation. Interference with biologically active RNA formation. 3,444,043, 5-13-69, Cl. 195-28.
Speil, Sidney: *See—*
Konrad, Howard Edwin; and Speil, Sidney,3,456,914.
Speir, Charles D. Automatic wheel chock. 3,425,517, 2-4-69, Cl. 188-32.
Speirs, James B.: *See—*
Highberg, Carle W.; and Speirs, James B.,3,451,721.
Speiser, Peter, to Ciba Corporation. Injection-moulded oral medicament in solid form. 3,432,592, 3-11-69, Cl. 424-19.
Speiser, Ralph W.; and Lindquist, William C., to Toro Manufacturing Corporation. Irrigation apparatus. 3,460,350, 8-12-69, Cl. 61-72.6
Speliotis, Denis E.: *See—*
Bate, Geoffrey; Judge, John S.; Morrison, John R.; and Speliotis, Denis E.,3,460,968.
Speliotis, Dennis E.; Morrison, John R.; Alstad, John K.; and Bate, Geoffrey, to International Business Machines Corporation. Magnetic information storage utilizing an environmental force dependent coercivity transition point of ferrous ferrite. 3,453,646, 7-1-69, Cl. 346-74.
Speliotis, Dennis E.: *See—*
Morrison, John R.; and Speliotis, Dennis E.,3,479,663.
Spellman, John P.: *See—*
Myles, Michael J.; Kupcikevicius, Vytautas; and Spellman, John P.,3,451,098.
Spellman, Patrick J.; and Youngquist, John A., to ESB Incorporated, mesne. Alkaline cell containing silicate ions in the electrolyte. 3,466,195, 9-9-69, Cl. 136-30.
Spellman, Patrick J.: *See—*
Johnson, Martin H.; and Spellman, Patrick J.,3,433,679.
Spellmire, Robert J.: *See—*
Rasmussen, George; and Spellmire, Robert J.,3,432,857.
Speltinckx, Rene: *See—*
Delbouille, Andre; and Speltinckx, Rene,3,454,547.
Spence, David W.: *See—*
Eckelkamp, Bernard J.; and Spence, David W.,3,449,725.
Ehrlich, Burney J.; Spence, David W.; and Frisby, Clinton D.,3,475,740.
Frisby, Clinton D.; and Spence, David W.,3,470,367.
Spence, David W., to Infotronics Corporation. Base line control circuit means. 3,475,600, 10-28-69, Cl. 235-183.
Spence, Harry Robert: *See—*
Nickell, Lawrence Creigh; Fertig, Raymond Baines; Spence, Harry Robert; and Sessions, Henry T.,3,486,828.
Spence, Iain S., to Fabric Bearings Limited. Rotary couplings. 3,475,923, 11-4-69, Cl. 64-14.
Spence, Ian Leighton: *See—*
de Tullio, Luigi; Spence, Ian Leighton; and Mostyn, Rodney,3,431,549.
Spence, Ian Leighton, to Marconi Company Limited, The. Ultrasonic presence detectors. 3,431,550, 3-4-69, Cl. 340-1.
Spence, Peter & Sons Limited: *See—*
De Rycke, Douglas August Charles; and Parker, Owen Gordon, 3,434,806.
Kerr, John, 3,454,354.
Spence, Thomas C., to Dow Chemical Company, The. Method for manufacturing non-woven fibrous products from gel fibers. 3,436,304, 4-1-69, Cl. 162-146.
Spence, Thomas E., to SKF Industries, Inc. Transmission mechanism. 3,443,443, 5-13-69, Cl. 74-25.
Spence, Wayman R., to Spenco Corporation. Protective inner sole. 3,449,844, 6-17-69, Cl. 36-44.
Spence, William G. Aircraft propeller and jet drive. 3,485,462, 12-23-69, Cl. 244-55.
Spencer, Arthur M. Room or space divider or decorative screen. 3,456,711, 7-22-69, Cl. 160-332.
Spencer, Arthur T.: *See—*
Pohl, Karl-Heinz; and Spencer, Arthur T.,3,455,775.
Spencer, Arthur William, to Eastman Kodak Company. Process for making uniform orientated film. 3,429,961, 2-25-69, Cl. 264-289.
Spencer, Dana R.: *See—*
Allen, Richard G.; Kurtz, Clark; Mac Sorley, Olin L.; Spencer, Dana R.; and Stetler, Wesley C.,3,474,239.
MacSorley, Olin L.; Spencer, Dana R.; and Timm, Joe F.,3,484,592.
Spencer, Daryl L.: *See—*
Saia, Jerry; and Spencer, Daryl L.,3,471,651.
Spencer, Donald J.: *See—*
Achterling, Harold J.; Prosa, Aldo C.; Spencer, Donald J.; and Perry, Robert C.,3,441,124.
Spencer, Donald N.: *See—*
Valeska, John J.; Spencer, Donald N.; and Kummer, Edson L.,3,461,561.
Spencer, Edward G.: *See—*
Kolb, Ernest D.; Laudise, Robert A.; Spencer, Edward G.; and Wood, Darwin L.,3,485,759.
Lenzo, Pascal V.; and Spencer, Edward G.,3,433,958.
Spencer, Francis D. Paint can attachment ring with pourng lip. 3,463,366, 8-26-69, Cl. 222-570.

Spencer, Frederick; and Jones, Reginald Winstone, to Simon, Henry, Limited, and Hoffmann Manufacturing Company Limited, The. Bearings. 3,467,453, 9-16-69, Cl. 308-174.
Spencer, Glenn S., to Bendix Corporation, The. Stationary coil electromagnetic clutch. 3,422,942, 1-21-69, Cl. 192-84.
Spencer, Gordon R.; and Stauffer, Franklin K., to Raytheon Company. Random address electro-optical switch. 3,473,076, 10-14-69, Cl. 315-10.
Spencer, H. M., Inc.: *See—*
Spencer, John A., 3,445,905.
Spencer, Joel V.; and Kopsidas, Robert K., to Spenko International Inc. Remote control plug-in unit. 3,440,347, 4-22-69, Cl. 179-1.
Spencer, John A., to Spencer, H. M., Inc. Dandy roll. 3,445,905, 5-27-69, Cl. 29-121.
Spencer, John Francis Theodore; Tulloch, Alexander Patrick; and Gorin, Philip Albert James, to Canadian Patents and Development Limited. Yeast fermentation process. 3,445,337, 5-20-69, Cl. 195-37.
Spencer, John H.: *See—*
Silvia, Denis A.; Ramsey, Richard T.; and Spencer, John H.,3,430,564.
Spencer, John L., to Lilly, Eli, and Company. Preparation of 1,4-benzodiazepine compounds. 3,462,419, 8-19-69, Cl. 260-239.
Spencer, John L.: *See—*
Van Heyningen, Earle M.; Ryan, Charles W.; and Spencer, John L.,3,459,749.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H., to Continental Oil Company. Process and apparatus for purifying gas. 3,435,591, 4-1-69, Cl. 55-62.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H., to Continental Oil Company. Method and apparatus for component concentration in the vapor phase. 3,458,973, 8-5-69, Cl. 55-62.
Spencer, John R.; Greathouse, Walton D.; and Cheek, James H., to Continental Oil Company. Surge chamber for hydrocarbon recovery sorption systems. 3,479,797, 11-25-69, Cl. 55-62.
Spencer, Joy L.: *See—*
Leininger, Robert I.; Spencer, Joy L.; and Vorys, Nichols D.,3,454,004.
Spencer, Kenneth Eric Vincent: *See—*
Crook, Leonard Robert; Jansen, Alexander Bertus Arnold; Spencer, Kenneth Eric Vincent; and Watson, David Harris,3,457,272.
Spencer, Kenneth H., to Beckett Manufacturing Co. Load compactor. 3,430,922, 3-4-69, Cl. 254-93.
Spencer, Larry K., to Otis Engineering Corporation. Valves. 3,435,843, 4-1-69, Cl. 137-505.25
Spencer, Matthias, & Sons Limited: *See—*
Ashby, John Gardiner; and Burrell, Dennis Sampson, 3,468,553.
Spencer, Michael Staines: *See—*
Carnell, Peter John Herbert; Skinner, Wilfrid Jesse; and Spencer, Michael Staines,3,445,354.
Spencer, Richard O.: *See—*
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O.,3,428,225.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O.,3,430,820.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O.,3,430,821.
Spencer, Robert A., to Lockwood Technical, Inc. Hand tool for applying hot melt adhesives and the like. 3,443,059, 5-6-69, Cl. 219-233.
Spencer, Robert L., to Weather Shield Aluminum Products, Inc. Covered wood construction element. 3,443,345, 5-13-69, Cl. 52-211.
Spencer-Smith, John L.; and Ruddell, James N., to Linen Industry Research Association. Method of producing bulked yarns. 3,436,904, 4-8-69, Cl. 57-157.
Spencer, William R., to General Electric Company. Dividing circuit particularly adapated for measuring pressure relationships. 3,443,080, 5-6-69, Cl. 235-196.
Spencer, William R. Fluid amplifier control. 3,461,777, 8-19-69, Cl. 91-3.
Spencer, William R., to General Electric Company. Conduit flanges. 3,466,070, 9-9-69, Cl. 285-405.
Spenco Corporation: *See—*
Spence, Wayman R., 3,449,844.
Spengler, Harold H.; and Kempher, Thomas J., to Allis-Chalmers Manufacturing Company. Electrolysis cell. 3,446,725, 5-27-69, Cl. 204-242.
Spenko International Inc.: *See—*
Spencer, Joel V.; and Kopsidas, Robert K., 3,440,347.
Speno, Frank, Railroad Ballast Cleaning Co., Inc.: *See—*
Speno, Martin J., 3,423,858.
Speno, Martin J., 3,445,944.
Speno, Martin J., to Speno, Frank, Railroad Ballast Cleaning Co., Inc. Automatic control system for railway work apparatus. 3,423,858, 1-28-69, Cl. 37-106.
Speno, Martin J., to Speno, Frank, Railroad Ballast Cleaning Co., Inc. Shoulder shaper assembly. 3,445,944, 5-27-69, Cl. 37-105.
Speno, Martin J. Ballast undercutting mechanism. 3,457,660, 7-29-69, Cl. 37-105.
Spensley, Robert Hardy: *See—*
May, Herbert; Kendall-Smith, Brian John; and Spensley, Robert Hardy,3,449,267.
Speranza, George P.: *See—*
Cavitt, Stanley B.; and Speranza, George P.,3,448,153.
Sperber, Edward J., to RCA Corporation. Preset UHF tuning mechanism. 3,459,055, 8-5-69, Cl. 74-10.6
Sperber, Heinrich; Schulz, Gerhard; Palm, Christof; and Koehler, Waldemar, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of trioxane. 3,483,214, 12-9-69, Cl. 260-340.
Sperberg, Lawrence R. Method of inflating elastomeric chambers with nitrogen gas. 3,468,348, 9-23-69, Cl. 141-1.
Sperberg, Lawrence R. Apparatus for measuring tire uniformity. 3,478,581, 11-18-69, Cl. 73-146.
Sperduti, Alexander F., to Interim Corporation, mesne. Take-up reel. 3,441,235, 4-29-69, Cl. 242-158.4
Sperl, Gottlieb: *See—*
Gies, Paul E.; and Sperl, Gottlieb,3,455,563.
Gies, Paul E.; Sperl, Gottlieb; and Braaten, Ralph A.,3,444,787.
Sperling & Schwartz, Inc.: *See—*
Walters, Wilfred C., 3,471,956.
Sperling, Irving; and Wills, Connable F., to System Development Corporation. Digital radar simulator system. 3,445,577, 5-20-69, Cl. 35-10.4
Sperman, Jacob H. Air bearing. 3,449,023, 6-10-69, Cl. 308-5.
Spero, George B., to Upjohn Company, The. Method of controlling reproductive cycle with 6α- methyl-17α hydroxy-progesterone 17-acetate. 3,444,296, 5-13-69, Cl. 424-243.
Speros, Dimitrios M.: *See—*
Hanneman, Rodney E.; Jorgensen, Paul J.; and Speros, Dimitrios M.,3,453,477.
Sperring, James Alfred: *See—*
Bellinger, Ronald; Sperring, James Alfred; and White, Charles Edward,3,426,702.
Sperry Canada Limited: *See—*
Watt, Gordon J., 3,469,475.
Sperry, Charles R. Vapor compression still with distilland recirculation means. 3,486,984, 12-30-69, Cl. 202-172.
Sperry, D. R., & Co.: *See—*
Kratochvil, Russell F.; and Eggert, William C., 3,446,358.
Sperry, Edward C.: *See—*
Wilson, Rosser L.; Frank, Earl E.; and Sperry, Edward C.,3,449,562.
Sperry, Lyman B. Plating rack with plural layer plastisol coating. 3,484,361, 12-16-69, Cl. 204-297.
Sperry, Philip R.: *See—*
Caule, Elmer J.; Pryor, Michael J.; and Sperry, Philip R.,3,475,227.
Sperry Rand Canada Limited: *See—*
Mactaggart, Donald J., 3,471,851.
Sperry Rand Corporation: *See—*
Adler, David G., 3,436,629.
Aha, Eugene W., 3,444,406.
Albright, Charles Barton, 3,421,798.
Andeen, Richard E., 3,446,946.
Andeen, Richard E.; and Kotfila, Ronald P., 3,476,335.
Andersson, Per L.; and Aberth, Oliver G., 3,431,406.
Andes, Ralph V.; and Manikowski, Donald M., 3,454,414.
Arthur, Richard J., 3,452,443.
Arvai, Tibor, 3,478,858.
Ashley, Paul E.; and Sutter, Clair G., 3,430,276.
Baker, Evelyn B.; and Freitag, Walter O., 3,444,015.
Banes, Nathan M.; Feehan, John D.; and Stepura, Raymond M., 3,444,486.
Barcaro, Eugene B.; and Best, Donald T., 3,456,250.
Barker, Paul D.; and Torok, Ernest J., 3,432,828.
Barmeier, Harold J., Jr.; and Wolff, Norman, 3,445,758.
Bartik, William J.; Chow, Woo Foung; and Schwartz, Edward N., 3,421,153.
Bartik, William J., 3,422,409.
Bartik, William J., 3,422,410.
Bartik, William J., 3,436,565.
Bartik, William J., 3,436,739.
Bartik, William J., 3,487,379.
Bergman, Robert J.; and Prohofsky, Le Roy A., 3,435,435.
Bergman, Robert J., 3,480,929.
Best, Donald T., 3,437,829.
Best, Donald T., 3,469,248.
Black, Francis B.; and Harris, Ellis D., 3,438,025.
Blanshine, Allison W.; and Procter, Edward C., 3,463,024.
Blosser, Robert L., Jr., 3,472,258.
Brediger, James L.; Day, William B.; Lavedan, Louis J., Jr.; and Parks, Joe K., 3,431,515.
Bruder, John F.; and Fausett, Dale L., 3,465,313.
Bruder, John F., 3,484,765.
Bukkila, Charles J.; Eyberg, Donald T.; Lemke, John S.; and Olson, Raymond M., 3,469,560.
Busch, Richard E., 3,464,623.

Butler, Lee Dennis, 3,430,783.
Butler, Lee Dennis, 3,481,497.
Chao, Wu Wai, 3,480,008.
Chen, Tsu-Fang, 3,481,354.
Chen, Tung C., 3,427,597.
Chong, Carlos F., 3,436,743.
Chong, Carlos F., 3,449,730.
Chow, Allan I.; and Milne, James F., 3,430,226.
Chow, Woo F., 3,449,731.
Chow, Woo F., 3,456,246.
Chow, Woo F., 3,460,114.
Chow, Woo F., 3,465,309.
Chow, Woo F.; and Schwarz, John B., 3,466,624.
Chow, Woo F., 3,487,380.
Close, Keith E., 3,453,448.
Cogar, Samuel C., 3,449,735.
Cohn, Marius, 3,423,577.
Cohn, Marius, 3,441,859.
Cohn, Marius; and Franck, Abraham, 3,460,117.
Collins, David M., 3,456,237.
Collins, Stuart A., Jr., 3,422,370.
Constantinides, Christos T.; and Halverson, Richard P., 3,484,766.
Cooper, John H., 3,431,384.
Craig, Orlyn W., 3,484,674.
Crane, Jack W.; and Nolt, Edwin B., 3,464,345.
Crane, Jack W.; Nolt, Edwin B.; and James, William E., 3,464,346.
Cubert, Jack S.; and Murphy, James J., 3,423,646.
Cyr, Joseph, 3,473,305.
Dannatt, Hugh St. L., 3,425,532.
Davidson, Ralph; and Greenberg, David R., 3,440,489.
Davies, Duane W.; and Ingwerson, Dale R., 3,451,274.
Davis, William W.; and Pohm, Arthur V., 3,433,975.
DeBlauw, Melvin J., 3,460,098.
Decker, Aloysius F., 3,482,228.
Duckworth, Byron R., 3,476,957.
Eby, Richard R., 3,443,511.
Eby, Richard R.; and Nolt, Edwin B., 3,472,544.
Eby, Richard R.; and Nolt, Edwin B., 3,482,866.
Ehresman, Virgil A., 3,445,674.
Emerson, Waldo C., 3,461,433.
Eychaner, Thomas L., 3,421,046.
Farrell, Edward A., 3,435,249.
Fischer, Howard E.; and Ward, Harold R., 3,457,873.
Fisher, Gerald E.; Noble, Thomas F.; and Williams, Virgel E., 3,428,788.
Flannery, William E., 3,421,016.
Flannery, William E.; and Matcovich, Thomas J., 3,436,742.
Flannery, William E., 3,466,621.
Frische, Richard H., 3,456,508.
Fritze, Curtis W.; and Daniels, Howard L., 3,436,731.
Fuld, Jerome R., 3,425,531.
Gaylor, Randall, 3,460,013.
Gehring, Arthur J.; Gardner, Henry J.; Braxton, James L.; and Crellin, Edwin W., 3,465,866.
Gluskin, Richard S., 3,437,335.
Goldammer, Freeland R., 3,428,384.
Goldammer, Freeland R.; and Powers, Joseph A., 3,473,675.
Goldstein, Raymond, 3,466,434.
Granber, Mauritz L.; and Kiesling, Charles A., 3,466,645.
Granberg, Mauritz L.; and Stoffel, Jerome J., 3,434,135.
Griffin, Benjamin F., Jr., 3,437,099.
Grundy, Gary L.; and Herickhoff, Robert J., 3,479,509.
Guthrie, Joseph E.; and Merrin, Seymour, 3,474,718.
Habdank-Dunikowski, Jerzy A., 3,449,912.
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P., 3,444,676.
Hale, John K.; Glass, Emmett F.; and Bernhardt, Richard P., 3,463,018.
Hanson, Alan R.; Minks, Paul R.; and Moe, Oliver M., 3,421,865.
Hanson, Marlin M.; Harvey, William A.; and Oberg, Paul E., 3,446,936.
Hanson, William H., 3,458,240.
Haring, Lewis L.; and Oppen, Walter R., 3,437,910.
Harklau, Lanny L., 3,431,491.
Harklau, Lanny L.; and James, Raymond H., 3,432,821.
Hart, Una L., 3,478,097.
Hawkins, Robert D., 3,453,596.
Herman, Stephen; and Stark, Edward W., 3,476,930.
Hewitt, Fred G., 3,432,820.
Hewitt, Fred G., 3,432,826.
Hewitt, Fred G.; and James, Raymond H., 3,432,829.
Hill, Richard Norman; and Bartik, William John, 3,465,165.
Hoiseth, Roland L.; and Daniels, Howard L., 3,436,735.
Hollyday, James H., 3,474,603.
Hollyday, James H., 3,483,688.
Honkonen, Richard A.; Allen, Paul E.; Way, Richard K.; and Larime, Carl M., 3,437,282.
Hurd, Willis F., 3,456,122.
Hurlburt, Joseph C., 3,449,893.
Hurlburt, Joseph C., 3,472,008.
Itzkan, Irving, 3,442,571.
Iverson, Gary J.; and Collins, David M., 3,436,737.
James, Raymond H.; and Lundberg, Charles W., 3,423,738.
James, Raymond H.; Korkowski, Vincent J.; and Nistler, Philip J., 3,431,492.
Johnson, Wesley R., 3,438,055.
Jones, James O., 3,422,250.
Kanitz, Roy E., 3,480,343.
Kaske, Alan D., 3,480,928.
Kaszynski, Albert Z.; and Phelps, Robert E., 3,422,423.
Kenyon, David E., 3,422,429.
King, Gordon van B., 3,469,263.
Klysa, John, Jr.; and Mc Cammon, William W., 3,483,455.
Kolodnyckij, Roman, 3,473,082.
Korkowski, Vincent J.; Belcourt, Francis J.; and James, Raymond H., 3,427,601.
Korkowski, Vincent J.; Hewitt, Fred G.; and James, Raymond H., 3,432,819.
Kovacic, Joseph E., 3,483,131.
Kovacic, Joseph E., 3,483,162.
Kulp, Karl T.; and Harklau, Lanny L., 3,465,314.
Lane, Gordon R., 3,470,549.
Lanes, Albert; Rachlis, Robert E.; Roth, Irving; and Stark, Edward W., 3,445,634.
Lins, Stanley J., 3,445,833.
Lo Casale, Thomas Michael, 3,437,830.
Lofrisco, Leonard A.; de Meo, Attilio A.; and Walter, Gerard O., 3,478,254.
Luciw, Wolodymyr, 3,466,623.
Luke, Louzelle Albert, 3,432,686.
Lundberg, Charles W.; Hewitt, Fred G.; James, Raymond H.; and Korkowski, Vincent J., 3,432,818.
Macek, Warren M., 3,480,878.
Macek, Warren M., 3,486,130.
Mas, George E., 3,480,798.
Mast, Aquila D., 3,420,160.
Matthews, Hugh B., 3,423,929.
Matthews, Robert C., 3,484,767.
McBrayer, John S.; Pearson, Paul E., Jr.; and Robinson, Robert W., 3,422,327.
McCartney, Earl J., 3,436,556.
McClure, Robert E., 3,448,406.
McClure, Robert E., 3,462,708.
McMonagle, William H., 3,430,529.
Miller, Ronald J., 3,485,463.
Moberg, Raymond H., 3,479,656.
Morgan, Dean W.; Kiernan, John P.; and Bergman, Robert J., 3,470,548.
Mueller, Werner J.; and Wolff, Norman, 3,476,995.
Nelson, Charles A., 3,465,312.
Nelson, Hiding E., 3,480,945.
Nelson, Raymond A., 3,462,661.
Newman, Roger, 3,431,438.
Niemiec, Albin J., 3,468,263.
Nolt, Edwin B., 3,426,672.
Nolt, Edwin B.; and Eby, Richard R., 3,448,681.
Oberg, Paul E., 3,470,550.
Oberg, Paul E., 3,480,926.
Olson, Arvid L.; Oredson, Henry N.; and Torok, Ernest J., 3,434,124.
Otto, Edward C.; and Flechner, Irving, 3,437,034.
Parks, Joe K., 3,448,410.
Parks, Joe K.; and Savage, Bruce R., 3,471,809.
Perkins, Edgar L., 3,445,804.
Pettibone, Raymond B., 3,447,477.
Pettibone, Raymond B., 3,451,346.
Pettibone, Raymond B., 3,479,962.
Pettibone, Raymond B., 3,481,277.
Phillips, Edwin R., 3,436,969.
Pitt, Solomon H., 3,421,612.
Ponierio, Frank V., 3,453,893.
Powers, Joseph A., 3,463,566.
Powers, Joseph A., 3,476,265.
Powers, Joseph A., 3,482,712.
Prohofsky, Le Roy A., 3,450,900.
Quosig, Ralph A.; and Viss, Normal L., 3,421,150.
Rakes, Rodney G.; and Fink, Richard A., 3,453,514.
Reader, Trevor D., 3,476,459.
Reichling, Charles A., 3,455,245.
Reid, Gilbert R.; and Schultz, Arthur P., 3,448,514.
Reinert, Owen E., 3,470,456.
Rocklitz, Alfred J., 3,466,382.
Rocks, Eugene S.; and Smith, Harry J., 3,419,967.
Root, Marvin R., 3,457,634.
Rothenberger, Roland D.; and Krauser, James L., 3,482,227.
Russon, Wayne P., 3,459,035.
Scheuneman, James H., 3,423,739.
Schneider, Joseph R.; Sharp, James K.; and Vaher, Eo, 3,482,184.

Schonfeld, Arnold; and Jacoby, Marvin, 3,485,970.
Schwartz, Edward N., 3,441,917.
Scott, John E., 3,453,615.
Sevilla, Ernesto G., 3,474,432.
Seymour, Shaun A., 3,421,647.
Sharp, James K.; and Vaher, Eo, 3,436,678.
Sharp, James K.; and Vaher, Eo, 3,453,559.
Shore, Donald L.; and Warwick, James S., 3,470,421.
Smith, Robert H., 3,459,225.
Spandorfer, Lester M.; and Belson, Henry S., 3,482,223.
Stanga, Dennis C., 3,439,344.
Tess, Gerald Francis, 3,450,160.
Tolman, Charles H., 3,436,755.
Tolmie, Robert J., 3,440,464.
Tombs, Nigel C., 3,422,321.
Turcott, George E., 3,474,262.
Turczyn, Alexander, 3,422,408.
Turczyn, Alexander, 3,441,919.
Wagstaff, Robert A., 3,477,308.
Waldrop, Thomas W., 3,451,725.
Weathers, Leland Clay, 3,460,577.
Webster, Neil W.; and Kline, Charles M., 3,462,926.
Wesner, Charles R., 3,431,475.
White, Robert A.; and James, Raymond H., 3,457,554.
Wilen, James G., 3,475,726.
Wing, Willis G., 3,430,501.
Wing, Willis G., 3,439,556.
Wing, Willis G., 3,444,745.
Yiotis, Peter G., 3,476,922.

Sperry Rand Limited: *See—*
Bourne, John Edward; and Simpson, John Albert, 3,454,852.
Maxwell, David James, 3,427,534.
Sharpe, Archibald Walter, 3,483,729.

Spershott, Walter E.; Foster, Joseph S.; Thom, David; and Gosling, Dickinson, to Labatt, John, Limited. Bottle transfer mechanism. 3,483,962, 12-16-69, Cl. 198-24.

Spex Industries, Inc.: *See—*
Chaplenko, George, 3,454,957.
Marcovecchio, Joseph; and Mitteldorf, Arthur J., 3,442,593.

Spezial-Papiermaschinenfabrik August Alfred Krupp: *See—*
Norbisrath, Max, 3,477,657.

Speziale, Angelo John: *See—*
Alt, Gerhard H.; and Speziale, Angelo John,3,452,001.

Speziale, Angelo John; and Alt, Gerhard H., to Monsanto Company. Salts of enaminoketones and processes for their preparation. 3,428,633, 2-18-69, Cl. 260-247.

Speziale, Angelo John; and Ratts, Kenneth Wayne, to Monsanto Chemical Company. Quinone bis(dihalomethylenes). 3,479,373, 11-18-69, Cl. 260-384.
Smith, Lowell R.; and Speziale, Angelo John,3,450,747.

Spicer, Alvin W., to Goodrich, B. F., Company, The. Belt. 3,485,707, 12-23-69, Cl. 161-78.

Spicer, Edward. Removable insert device. 3,466,436, 9-9-69, Cl. 240-100.

Spicer, Richard J. Closure means for artificial body openings. 3,447,533, 6-3-69, Cl. 128-1.

Spicer, William E., to Varian Associates. Mosaic X-ray pick-up screen for X-ray image intensifier tubes. 3,475,411, 10-28-69, Cl. 250-213.

Spicer, William M. Retainer clips for temporary wiring. 3,438,604, 4-15-69, Cl. 248-74.

Spickenreuther, Dieter: *See—*
Eugster, Eduard; and Spickenreuther, Dieter,3,449,826.
Weisshaar, Erich; and Spickenreuther, Dieter,3,457,474.

Spiegel, Francis X.; and Monia, Victor, to Standard Packaging Corporation. Easy opening and reclosable package, film therefor and process. 3,454,210, 7-8-69, Cl. 229-43.

Spiegel, Herbert; and Sweeney, Frank. Pretied necktie and clip. 3,423,762, 1-28-69, Cl. 2-153.

Spiegel, Milton; and Shepherd, John A., to FMC Corporation. Sewage treatment. 3,457,167, 7-22-69, Cl. 210-3.

Spiegel, Raymond J. Laminated press brake die. 3,474,657, 10-28-69, Cl. 72-478.

Spiegel, Raymond W.; Robandt, William F.; and Platt, Clark I., to Whirlpool Corporation. Cone filter for an automatic washer. 3,429,444, 2-25-69, Cl. 210-356.

Spiegel, Walter J.; and Tamburro, Peter J., to United States of America, Navy, mesne. Underwater connector. 3,432,612, 3-11-69, Cl. 174-88.

Spiegelberg, Hans: *See—*
Edenhofer, Albrecht; and Spiegelberg, Hans,3,478,048.
Guex, Waldemar; Schlapfer, Reinhard; and Spiegelberg, Hans,3,467,505.
Kiss, Joseph; Spiegelberg, Hans; Vaterlaus, Bruno Peter; Rachlin, Albert; and Doebel, Karl,3,445,455.
Ramuz, Henri; Spiegelberg, Hans; Abele, Werner; and Dornow, Alfred,3,453,277.

Spiegelman, Gerald: *See—*
Mausner, Marvin; Katstra, Richard D.; and Spiegelman, Gerald,3,458,449.

Spiegelman, Soloman; and Haruna, Ichiro, to University of Illinois Foundation. In vitro synthesis of ribonucleic acids and enzyme therefor. 3,444,041, 5-13-69, Cl. 195-28.

Spiegelman, Solomon, to University of Illinois Foundation. Replication of mutant nucleic acids. 3,444,044, 5-13-69, Cl. 195-28.

Spiegelman, Solomon; Haruna, Ichiro; and Pace, Norman R., to University of Illinois Foundation. Purified replicases and their uses. 3,444,042, 5-13-69, Cl. 195-28.

Spiegler, Ewald: *See—*
Augustin, Johann; Wenger, Joachim; Reichardt, Manfred; and Spiegler, Ewald,3,459,890.

Spiegler, John, to Corning Glass Works. High strength resistor. 3,437,974, 4-8-69, Cl. 338-300.

Spiegler, Kurt S.; and Routsis, Kostas, to United Aircraft Corporation. Process and system for removal of acidic gases from influent gas to fuel cell. 3,466,138, 9-9-69, Cl. 23-2.

Spiegler, Louis: *See—*
Laucius, Joseph Francis; and Spiegler, Louis,3,422,154.

Spiehs, Oswald. Ski bobsled. 3,438,643, 4-15-69, Cl. 280-16.

Spieker, Bernard, to Bendix Corporation, The. Method and apparatus for mounting a drum to a hub. 3,440,119, 4-22-69, Cl. 156-99.

Spielberg, Nathan, to North American Philips Company, Inc. X-ray diffractometer having several detectors movable on a goniometer circle. 3,427,451, 2-11-69, Cl. 250-51.5

Spielberg, Nathan; and Ladell, Joshua, to North American Philips Company, Inc. Method of obtaining X-ray interference patterns. 3,439,164, 4-15-69, Cl. 250-51.5

Spieldiener, Robert; and Saiko, Alphons, to Buehler, Willy, A.G. Base embedded, sectional metal shaft. 3,473,279, 10-21-69, Cl. 52-297.

Spielman, James F. Hand-pulled golf cart. 3,479,052, 11-18-69, Cl. 280-41.

Spielman, Warren L.: *See—*
Hubbard, Bobby Gene, 3,457,559.

Spielmann, Erich R., to British Oxygen Company Limited, The. Apparatus for filling and sealing containers. 3,440,797, 4-29-69, Cl. 53-83.

Spielmann, Werner: *See—*
Ebert, Ekkehard; and Spielmann, Werner,3,421,956.

Spiers, John; and Panikkar, Mathoor S. R., to Perkins Engines Limited. Flame cup. 3,456,627, 7-22-69, Cl. 123-30.

Spies, George R. Jr., to Air Reduction Company, Incorporated. Self-aligning valve closure. 3,472,481, 10-14-69, Cl. 251-85.

Spies, Rolf E., to Motorola, Inc. Crystal oscillator and crystal filter circuit employing a single crystal. 3,424,999, 1-28-69, Cl. 331-116.

Spies, Rolf E., to Motorola, Inc. Signal separating circuit utilizing alternately balanced and unbalanced bridge circuit. 3,459,884, 8-5-69, Cl. 178-5.4

Spies, Rolf E., to Motorola, Inc. Color demodulator for television receivers. 3,465,093, 9-2-69, Cl. 178-5.4

Spiesel, Sydney Z. Method of recovering antigens from Bordetella pertussis cells. 3,465,078, 9-2-69, Cl. 424-92.

Spiess, Hans, to Oerlikon Engineering Company. Electric machine having a liquid-cooled rotor. 3,435,261, 3-25-69, Cl. 310-54.

Spiess, Karl, to Industriewerk Schaeffler OHG. Method and apparatus for assembling universal joints. 3,429,021, 2-25-69, Cl. 29-148.4

Spiess, Karl, to Industriewerk Schaeffler OHG. Vibratory conveyor. 3,473,759, 10-21-69, Cl. 198-220.

Spieth, Rudolf. Apparatus for tensioning of tension ropes in gymnastic apparatus. 3,466,024, 9-9-69, Cl. 267-69.

Spigner, Philip: *See—*
Adler, Hans; Horowitz, Norman; and Spigner, Philip,3,436,156.
Adler, Hans; Horowitz, Norman; and Spigner, Philip,3,436,157.

Spika, Wolfram, to Bobst Champlain, Inc. Machine for punching holes corresponding to serial numbers in record cards. 3,486,690, 12-30-69, Cl. 234-61.

Spilhaus, Athelstan F., to Experimentoy Corporation. Method of skating and apparatus for practicing said method. 3,442,522, 5-6-69, Cl. 280-11.1

Spilhaus, Athelstan F., to Experimentoy Corporation. Magnetic rolling device. 3,446,999, 5-27-69, Cl. 310-13.

Spiller, Aidan Edward. Refrigeration system including a thermostatically controlled valve. 3,423,953, 1-28-69, Cl. 62-217.

Spiller, Basil Harry Royston: *See—*
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry,3,431,697.
Phillipson, Alan; Spiller, Basil Harry Royston; Smith, Robin; and Cheesman, Harry,3,442,990.

Spiller, Kenneth J.: *See—*
Foreman, Ralph S.; Switzer, Ronald E.; Spiller, Kenneth J.; and Allan, Donald R.,3,427,433.

Spiller, Lester L., to Ransburg Electro-Coating Corporation. Non-Aqueous suspension for electrophorectically coating articles comprising a figment and an organic solvent-soluble thermosetting resin. 3,450,655, 6-17-69, Cl. 260-22.

Spiller, Lester L., to Ransburg Electro-Coating Corporation. Production of electrically resistive coatings by anodic deposition from aqueous monoaluminum phosphate. 3,484,344, 12-16-69, Cl. 204-37.
Spillette, Arthur G., to Esso Production Research Company. Alternate steam-cold water injection for the recovery of viscous crude. 3,477,510, 11-11-69, Cl. 166-272.
Spillman, Kenneth W., to Parker Pen Company, The. Automatic pencil. 3,439,989, 4-22-69, Cl. 401-65.
Spilman, Raymond R.: *See—*
Moore, Donald L.; Fricke, Paul M., Jr.; and Spilman, Raymond R.,3,466,084.
Moore, Donald L.; Fricke, Paul M., Jr.; Tucker, William H.; and Spilman, Raymond R.,3,485,525.
Spilners, Ilgvars J.: *See—*
McGrath, Joseph J.; and Spilners, Ilgvars J.,3,448,082.
Spindel-, Motoren- und Maschinenfabrik AG: *See—*
Beerli, Karl, 3,485,029.
Spindel-Motoren-und Maschinenfabrik A.G.: *See—*
Beerli, Karl, 3,453,083.
Spindelfabrik Sussen, Schurr, Stahlecker & Grill G.m.b.H.: *See—*
Stahlecker, Fritz; and Kemmler, Sigmund, 3,447,305.
Stahlecker, Fritz, 3,451,735.
Spindler, Clinton L., to United States of America, Navy. Standing detonation wave rocket engine. 3,423,942, 1-28-69, Cl. 60-207.
Spindlow, John Richard: *See—*
Giles, Cyril George; Martin, James Alexander; and Spindlow, John Richard,3,431,996.
Spinella, Salvatore Charles. Dental restoration and dental tooth structures. 3,456,347, 7-22-69, Cl. 32-2.
Spinelli, Angelo S.: *See—*
Grandy, Andrew J.; Spinelli, Angelo S.; De Mesquita, Seymour; and Batezell, Alfred P.,3,465,463.
Spinelli, Frank P.; and Wiktor, Dominik M., to Automatic Switch Company. Actuator having releasable latch. 3,435,390, 3-25-69, Cl. 335-161.
Spinelli, Frank P.; and Wiktor, Dominik M., to Automatic Switch Company. Multipole mechanically held relay. 3,441,700, 4-29-69, Cl. 200-153.
Spinelli, Frank P.; and Wiktor, Dominik M., to Automatic Switch Company. Motor operated relay. 3,443,252, 5-6-69, Cl. 335-73.
Spinello, John O.: *See—*
Bohn, Martin C.; Brady, John F.; Spinello, John O.; and Rice, Kenneth G.,3,433,341.
Spingies, Erwin: *See—*
Garbers, Ernst; Klotzek, Theodor; and Spingies, Erwin,3,439,778.
Spink, Robert W.: *See—*
Siebers, Robert W.; and Spink, Robert W.,3,437,841.
Spinnett, Raymond G. Rotary engine. 3,463,128, 8-26-69, Cl. 123-11.
Spinney, Robert W., to Nassau Smelting and Refining Company Inc. Recovery of copper from copper-bearing solutions. 3,440,036, 4-22-69, Cl. 75-117.
Spinnfaser Aktiengesellschaft: *See—*
Richter, Edmund, 3,446,573.
Spinrad, Malcom, to American Safety Table Company, a Teledyne Company. Sewing machine. 3,447,500, 6-3-69, Cl. 112-261.
Spinrad, Malcom; Haas, Kenneth C.; and Hoverter, Bryce E., to American Safety Table Company. Reversing plug for electric motor. 3,477,001, 11-4-69, Cl. 318-207.
Spinuzzi, Sam J.: *See—*
Russell, Fred J.; Armstrong, Richard L.; and Spinuzzi, Sam J.,3,434,752.
Spira, Bernard: *See—*
Warren, Robert A.; and Spira, Bernard,3,435,938.
Spira, Joel S.; and Licata, Joseph, to Lutron Electronics Company, Inc. Fluorescent light dimming system. 3,422,309, 1-14-69, Cl. 315-194.
Spira, Paul: *See—*
Themelis, Nickolas J.; and Spira, Paul,3,437,475.
Spire, Etienne: *See—*
Karinthi, Pierre Yves; and Spire, Etienne,3,484,232.
Spiritusfabriek N.V.: *See—*
van der Waard, Willem Frederik; and de Flines, Jan, 3,431,173.
Spiro, Hans W.: *See—*
Hemprich, Horst J.; Schneider, Walter F.; Spiro, Hans W.; and Zehr, Joachim O.,3,479,583.
Spiro, Hans, to International Business Machines Corporation. Frequency shift keying modulator. 3,451,012, 6-17-69, Cl. 332-18.
Spiro, Irving, 1/2 to Michelson, Stephen A. Orthopedic knee support. 3,473,527, 10-21-69, Cl. 128-80.
Spiro, Lloyd W., to North American Rockwell Corporation. Orbital weld head. 3,461,265, 8-12-69, Cl. 219-60.
Spiroch, Franz; and Beckert, Werner, to Eichner Organisation G.m.b.H. Arrangement for monitoring movements of tape. 3,476,299, 11-4-69, Cl. 226-32.
Spiroch, Franz; Kolless, Siegfried; and Pons, Heinz, to Eichner Organisation G.m.b.H. Arrangement for signalling movement of a member by means of a magnet movable past a reed switch. 3,445,796, 5-20-69, Cl. 335-205.
Spisak, Andrew A., to Warner & Swasey Company, The. Plastic faller bar. 3,439,386, 4-22-69, Cl. 19-129.
Spisak, Andrew A.: *See—*
Diener, Robert E.; and Spisak, Andrew A.,3,436,994.
Spisak, Edward C., to Gar Wood Industries, Inc. Wheel cover. 3,432,206, 3-11-69, Cl. 301-37.
Spisak, Edward G., to Gar Wood Industries, Inc. Vacuum check valve. 3,465,786, 9-9-69, Cl. 137-516.27
Spisak, Steve, to Gregory Industries, Inc. Apparatus for feeding studs sequentially to a welding tool. 3,448,236, 6-3-69, Cl. 219-98.
Spisak, Steve: *See—*
Glorioso, Paul A.; and Spisak, Steve,3,487,190.
Spitaleri, Paul S.: *See—*
Conte, Joseph G.; Spitaleri, Paul S.; and Cohen, Martin,3,455,650.
Conte, Joseph G.; Spitaleri, Paul S.; Stern, Milton; and Simpson, Theodore B.,3,425,837.
Spiteri, Joseph, to Morlite Equipment Company. Trailer lighting arrangement. 3,440,415, 4-22-69, Cl. 240-7.1
Spiteri, Joseph, to Lake Shore Markers, Inc. Electrical conversion plug. 3,446,954, 5-27-69, Cl. 240-11.2
Spiteri, Joseph, to Truck-Lite Co., Inc. Light impedance coupling network. 3,456,154, 7-15-69, Cl. 315-149.
Spitfire Tool & Machine Co., Inc.: *See—*
Day, Lawrence; Dobrick, Joseph; and Kay, Arthur, 3,434,243.
Spitsbergen, Merlin D.; and Ranke, Edward K., to Holley Carburetor Company. Gas turbine engine digital fuel control. 3,469,395, 9-30-69, Cl. 60-39.28
Spittler, Richard F.: *See—*
Moyer, James D.; and Spittler, Richard F.,3,471,101.
Spitz, Adrian N.: *See—*
Hutchinson, Seymour M.; and Spitz, Adrian N., 3,452,745.
Spitz, Adrian N.: *See—*
Hutchinson, Seymour M.; and Spitz, Adrian N.,3,452,745.
Spitz, Albert W.; and Schwab, Milton I. Method of refining copper. 3,432,289, 3-11-69, Cl. 75-73.
Spitz, Bernard, to Henry Hanger & Display Fixture Corp. of Calif., The. Travel bag for garments. 3,433,335, 3-18-69, Cl. 190-43.
Spitz, Erich; and Romeas, Rene, to CSF-Compagnie Generale de Telegraphie Sans Fil. Helical antenna electromagnetically coupled to resonant line. 3,449,752, 6-10-69, Cl. 343-895.
Spitz, Melvin P., to Bedline, Inc. Articulating platform structure for supporting mattress on contour beds. 3,447,170, 6-3-69, Cl. 5-91.
Spitz, Melvin P.; Sharp, Chester H.; and Sproule, John W., to Bedline, Inc. Means for anchoring flexible fabrics in sofa- beds. 3,431,567, 3-11-69, Cl. 5-51.
Spitzer, Cary R., to United States of America, National Aeronautics and Space Administration. Evaporant holder. 3,430,937, 3-4-69, Cl. 263-48.
Spitzer, Ernst L. Th. M.; and Radder, Johannes, to Shell Oil Company. Use of sulfonium salts in liquid/liquid metal extraction. 3,432,257, 3-11-69, Cl. 23-87.
Spitzer, Jake R. Snowplow carriage. 3,426,458, 2-11-69, Cl. 37-42.
Spitzner, Jurgen: *See—*
Borner, Manfred; and Spitzner, Jurgen,3,445,792.
Spitzner, Rudolf: *See—*
Furt, Ludwig; Hahne, Helmut; and Spitzner, Rudolf,3,456,321.
Spivack, Alfred Paul. Apparatus for training in the electrical treatment of cardiac disorders. 3,453,745, 7-8-69, Cl. 35-17.
Spivack, John D.: *See—*
Dexter, Martin; Spivack, John D.; and Steinberg, David H.,3,441,575.
Dexter, Martin; Spivack, John D.; and Steinberg, David H.,3,457,286.
Dexter, Martin; and Spivack, John Denon,3,467,666.
Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert,3,435,065.
Spivak, Joel F.: *See—*
Carroll, James A.; and Spivak, Joel F.,3,480,484.
Spivey, Donald K. Apparatus for cleaning paint rollers. 3,428,060, 2-18-69, Cl. 134-141.
Spivey, Gordon L., to Construction Machinery, Inc. Resilient ball retainer for tooth and holder. 3,471,954, 10-14-69, Cl. 37-142.
Spivey, Gordon L.: *See—*
Swisher, George W., Jr.; Spivey, Gordon L.; and Petersik, Adolph R.,3,423,859.
Spivey, Richard F.; and Drees, Jan M., to Bell Aerospace Corporation. Rotor blade. 3,467,197, 9-16-69, Cl. 170-159.
Spix, George J.: *See—*
Corry, Thomas M.; and Spix, George J.,3,430,123.
Salihi, Jalal T.; and Spix, George J.,3,471,764.
Splichal, William F., Jr., to United States of America, Atomic Energy Commission. Low level radiation monitor. 3,461,292, 8-12-69, Cl. 250-83.6
Splinter, William E.; and Suggs, Charles W. Tobacco topper. 3,482,379, 12-9-69, Cl. 56-63.
Splinter, William E.: *See—*
Huang, Barney K.; and Splinter, William E.,3,446,164.

Spodig, Heinrich. Conveyor for magnetizable commodities. 3,430,752, 3-4-69, Cl. 198-41.
Spodig, Heinrich. Conveyor arrangement. 3,468,406, 9-23-69, Cl. 198-41.
Spodig, Heinrich. Conveyor arrangement for magnetizable objects. 3,474,892, 10-28-69, Cl. 198-41.
Spodig, Heinrich. Magnetic separator. 3,481,471, 12-2-69, Cl. 210-222.
Spoelhof, Charles P., to Eastman Kodak Company. Wide-angle optical system. 3,455,223, 7-15-69, Cl. 95-16.
Spofa, Sdruzeni podniku pro zdravotnickou vyrobu: *See—*
Chvapil, Milos; Krajicek, Milan; and Adam, Miloslav, 3,425,418.
Mansfeld, Viktor; Hladovec, Josef; and Horakova, Zdenka, 3,461,205.
Paleckova, Frantisek; Hostalek, Zdenek; and Rehacek, Zdenek, 3,434,930.
Vondracek, Miloslav; Slezak, Josef; Herold, Milos; and Culik, Karel, 3,425,911.
Spofa Sdruzeni Pro Zdrovotnickou Vyrobu: *See—*
Culik, Karel; Palkoska, Josef; Vondracek, Miloslav; Skoda, Jan; and Herold, Milos, 3,429,780.
SPOFA, Spojene farmaceuticke zavody, narodni podnik: *See—*
Skoda, Jan; Hess, Vilem; and Sorm, Frantisek, 3,468,759.
SPOFA, Spojene pidniky pro zdravotnickou vyrobu: *See—*
Vondracek, Miloslav; Toscaniova, Eva; and Hoffman, Josef, 3,481,916.
SPOFA, Spojene podniky pro zdravotnickou vyrobu: *See—*
Protiva, Miroslav; Rajsner, Miroslav; and Metysova, Jirina, 3,487,085.
Spofford, Jordan F.; and Swanson, Emil B., to Western Electric Company, Incorporated. Circuit for protecting a current limiting resistive device from excessive current. 3,460,126, 8-5-69, Cl. 340-253.
Spofford, Walter R., Jr., to General Electric Company. Hysteresis free phase control circuit using silicon bilateral switch. 3,447,067, 5-27-69, Cl. 323-22.
Spofford, Walter R.; and Davis, Morton G., to Crouse-Hinds Company. Loop detector. 3,436,725, 4-1-69, Cl. 340-38.
Spohn, Karl, to Brac Aktiengesellschaft. Switch clock. 3,474,199, 10-21-69, Cl. 200-38.
Spohn, Walter G. Extrusion apparatus. 3,452,688, 7-1-69, Cl. 107-14.
Spohr, Albert R., to Sunbeam Corporation. Illuminated electric shaver. 3,432,652, 3-11-69, Cl. 240-2.
Spohr, Albert R., to Sunbeam Corporation. Electric toothbrush. 3,456,276, 7-22-69, Cl. 15-22.
Spohr, Albert R., to Sunbeam Corporation. Recessed concentric charging contacts for electric cordless toothbrush. 3,463,994, 8-26-69, Cl. 320-2.
Spollen, Francis J.: *See—*
Gretter, Ralph W.; Spollen, Francis J.; and Voigt, Gottfried O.,3,434,297.
Spolsino, Peter P., to Kamborian, Jacobs S. Application of a sole to the bottom of a shoe assembly. 3,436,780, 4-8-69, Cl. 12-142.
Spon, Carroll V.; and Kolenda, Donald J., to Keystone Consolidated Industries, Inc. Locking knob for hospital, industrial and institutional cabinets. 3,455,126, 7-15-69, Cl. 70-216.
Sponaugle, Lloyd B.: *See—*
Stroup, John F.; and Sponaugle, Lloyd B.,3,475,789.
Sponnoble, Harry, to Upjohn Company, The. Mixing vial construction. 3,464,414, 9-2-69, Cl. 128-272.
Sponske, Argyl D.; Mayhew, Jean A.; and Mayhew, Violet M., to S&M Company. Cabinet for cylindrical objects. 3,422,961, 1-21-69, Cl. 211-153.
Spoon, Bill Hugh: *See—*
Bell, Marion S.; Montrose, Anthony Alan; and Spoon, Bill Hugh,3,430,479.
Spooner, Eric, to Edwards High Vacuum International Limited. Liquid sealed mechanical vacuum pumps. 3,421,688, 1-14-69, Cl. 230-153.
Spooner, Howard C.: *See—*
Jennings, Lyston C.; and Spooner, Howard C.,3,431,857.
Spooner, Howard E.; and Wozniak, Theodore A., to Engelhard Industries, Inc. Method of continuously bonding a narrow solder stripe on metal strip material. 3,451,836, 6-24-69, Cl. 117-4.
Spooner, Norman F.: *See—*
Sibley, Forbes S.; and Spooner, Norman F.,3,457,122.
Spoor, Herbert: *See—*
Pohlemann, Heinz; Spoor, Herbert; and Becker, Ernst,3,446,723.
Spoor, Herbert; Florus, Gerhard; Pohlemann, Heinz; and Schauder, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cataphoretic deposition of nitrogen basic copolymers. 3,455,806, 7-15-69, Cl. 204-181.
Spoor, Herbert; and Pohlemann, Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cataphoretic deposition of nitrogen basic copolymers. 3,458,420, 7-29-69, Cl. 204-181.
Spoor, Herbert; Pohlemann, Heinz; Florus, Gerhard; and Schauder, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrodeposition of a copolymer containing a cyclic compound having basic nitrogen atoms. 3,454,482, 7-8-69, Cl. 204-181.
Sporck, Christian R., to General Electric Company. Cyclic organosilicon compounds containing alkylene units. 3,452,071, 6-24-69, Cl. 260-448.2
Sporck, Christian R., to General Electric Company. Bicyclic organosilicon compounds with alkylene linkage. 3,452,072, 6-24-69, Cl. 260-448.2
Sporck, Claus L.; Kelley, Thomas H.; and Lombardo, Samuel J., to Ludge & Shipley Co., The. Method of making tubes. 3,453,854, 7-8-69, Cl. 72-284.
Sporek, Karel F., to Owens-Illinois, Inc. Ionization detector electrode assembly and method of analyzing gas and vapor substances. 3,478,205, 11-11-69, Cl. 250-43.5
Sporek, Karel Frantisek, to Owens-Illinois, Inc. Beta-emitting radioisotope source sealed onto the surface of an inert carrier. 3,453,196, 7-1-69, Cl. 204-159.22
Sporlan Valve Company: *See—*
Leimbach, John George, 3,438,217.
Sporrer, Ludwig, to Siemens Aktiengesellschaft. Roughened surface aluminum cylinder in zone refining. 3,447,910, 6-3-69, Cl. 23-273.
Sports Industries: *See—*
Christiansen, James S., 3,470,570.
Sports-Jet Industries, Inc.: *See—*
Fox, Anthony R., 3,478,712.
Spoth, Nelson G.; and Chandley, George D., to TRW Inc. Method and apparatus for melting and pouring titanium. 3,484,840, 12-16-69, Cl. 13-27.
Spott, Georg: *See—*
Hermann, Karl-Heinz; Schnell, Hermann; Schneider, Rudolf; and Spott, Georg,3,447,583.
Schneider, Rudolf; Bottenbruch, Ludwig; Court, Otto; Damsky, Walter; Spott, Georg; and Lippert, Axel,3,427,003.
Spotts, Clyde E.: *See—*
Fast, Robert B.; Spotts, Clyde E.; and Morck, Roland A.,3,451,822.
Spra-Con Company, The: *See—*
Gary, Leo A., 3,482,260.
Harrison, John, 3,463,298.
Spracklen, Stanford B.: *See—*
Kahn, Alan R.; and Spracklen, Stanford B.,3,436,329.
Spradling, Joseph W., to Wehr Corporation. Air conditioning terminal control unit with acoustical baffle. 3,482,504, 12-9-69, Cl. 98-38.
Spragg, John D., to Textron, Inc. Lens blank. 3,449,198, 6-10-69, Cl. 161-42.
Sprague & Henwood, Incorporated: *See—*
Mark, Len, 3,420,322.
Sprague Electric Company: *See—*
Adelson, Leonard; Magnussen, Roald S.; and McNeary, Matthew W., 3,456,171.
Alwitt, Robert S., 3,487,270.
Bilotti, Alberto, 3,471,755.
Bouchard, Joseph G. F., 3,426,254.
Burks, Darnall P.; and Fabricius, John H., 3,471,753.
Busen, Karl; Lindmayer, Joseph; Schneider, William C.; and Tsang, Wei K., 3,443,174.
Cormier, George E.; and Netherwood, Paul H., 3,431,473.
Dagnoli, Donato F.; Jaeschke, Charles R.; and Hooks, Arthur K., 3,483,966.
Dorst, Stanley O., 3,481,779.
Duke, Philip J., 3,482,149.
Graf, Rudolf F., 3,467,828.
Hatch, Warren E., 3,456,170.
Hazzard, Henry D., 3,443,164.
Helgeland, Walter, 3,422,386.
Jaeschke, Charles R.; and Novacek, William G., 3,484,536.
Johnson, Theodore W.; Kalt, Charles G.; and Martin, Jacob H., 3,478,191.
Kahn, Manfred, 3,426,250.
Kahn, Manfred; Lindmayer, Joseph; and North, William D., 3,443,236.
Kalt, Charles G., 3,483,356.
Lambert, Kermit N.; and Peterson, Richard C., 3,439,230.
Lindmayer, Joseph; Wrigley, Charles Y.; and Garnache, Richard R., 3,455,748.
Manchester, Kenneth E., 3,481,776.
Muskovac, Nicholas G., 3,473,101.
Pechini, Maggio P., 3,438,723.
Prokopowicz, Thomas I., 3,426,251.
Robinson, Preston, 3,486,221.
Ross, Sidney D.; Petersen, Raymond C.; and Finkelstein, Manuel, 3,459,643.
Saxena, Arjun N.; and McDade, James C., 3,450,957.
Saxena, Arjun N., 3,450,958.
Senf, George A., 3,439,293.
Smyth, Donald M., 3,426,249.
Tatem, William A., 3,427,697.
Travis, William J., 3,487,321.
Tsang, Wei K.; and Busen, Karl M., 3,443,173.
Vogel, Ferdinand Lincoln, Jr, 3,421,936.
Wittke, Raymond B., 3,471,377.
Wittke, Raymond B., 3,481,029.

Young, D'Arcy Andrews, Jr., 3,471,820.
Sprague, Frederick L., to Marshall, John Donald, and Bomar, Horace L. Fabric windup mechanism. 3,433,430, 3-18-69, Cl. 242-66.
Sprague, George Sidney: *See*—
Carvalho, Dorothy Ann; Hauser, Martin; Schriffert, Edward John; and Sprague, George Sidney,3,431,151.
Hauser, Martin; and Sprague, George Sidney,3,431,152.
Sprague, James M.: *See*—
Bolhofer, William A.; and Sprague, James M.,3,453,273.
Sprague, James M.; and Bolhofer, William A., to Merck & Co., Inc. Phenoxy substituted 2-alkenoic acids. 3,452,081, 6-24-69, Cl. 260-473.
Sprague, James M.; and Cragoe, Edward J., Jr., to Merck & Co., Inc. 3,3-Spiropiperidine derivatives of benzothiodiazine 1,1-dioxides and processes for their preparation. 3,478,021, 11-11-69, Cl. 260-243.
Sprague, James M.; and Schultz, Everett M., to Merck & Co., Inc.[β-(substituted-thio)-acylphenoxy]-alkanoic acids and [β-(substituted-thio)acylphenylmercapto] alkanoic acids and derivatives thereof. 3,453,312, 7-1-69, Cl. 260-455.
Sprague, James W.; and Buzzelli, Edward S., to Standard Oil Company, The (Ohio). Electrical energy storage device having negative electrode of antimony and a fused salt electrolyte. 3,485,674, 12-23-69, Cl. 136-83.
Sprague, Lloyd G.: *See*—
Brouneus, Harold A.; and Sprague, Lloyd G.,3,448,245.
Sprague, Lloyd G., to Corning Glass Works. Method of making electric heating units. 3,440,720, 4-29-69, Cl. 29-611.
Sprague, Robert W.: *See*—
Nies, Nelson P.; and Sprague, Robert W.,3,466,147.
Sprague, Robert W., to United States Borax & Chemical Corporation. Process for producing boric oxide. 3,468,628, 9-23-69, Cl. 23-149.
Sprague, Robert W., to United States Borax & Chemical Corporation. Method for producing boric oxide. 3,471,255, 10-7-69, Cl. 23-149.
Sprague, Theodore P., to United States of America, Atomic Energy Commission. Inhibition of uranium metal corrosion. 3,450,576, 6-17-69, Cl. 148-6.15
Sprague, Theodore S.: *See*—
Ammon, Johannes H.; Schlichting, John; and Sprague, Theodore S.,3,437,077.
Sprague, Theodore S., to Babcock & Wilcox Company, The. Once-through vapor generator. 3,447,509, 6-3-69, Cl. 122-32.
Sprague, Theodore S., to Babcock & Wilcox Company, The. Rotary pump with check valve. 3,483,824, 12-16-69, Cl. 103-89.
Sprakel, Karl: *See*—
Maasberg, Wolfgang; and Sprakel, Karl,3,424,386.
Spraker, Wilbur A., Jr.: *See*—
Talley, James E., Jr.; Spraker, Wilbur A., Jr.; and Elderkin, Richard L.,3,473,238.
Sprang, Richard W.: *See*—
Fulton, Howard A.; Flinner, Vaughn D.; and Sprang, Richard W.,3,421,540.
Spranger, Alfred F.: *See*—
Erneman, Hans G.; and Spranger, Alfred F.,3,462,191.
Spranger, Paul B., to Columbia Broadcasting System, Inc. Solid-state amplifier, and control panel assembly incorporated therein. 3,462,553, 8-19-69, Cl. 179-1.
Spransy, George B.: *See*—
Braun, Morris; and Spransy, George B.,3,425,579.
Spravniks, Eduards: *See*—
Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards,3,472,504.
Spraying Systems Co.: *See*—
O'Brien, Edward J., 3,421,702.
Spraymould (Bahamas) Limited: *See*—
Dicks, Peter Derek John; and Hill, William Melville, 3,482,013.
Sprayon Products, Inc.: *See*—
Moonan, William, 3,430,819.
Moonan, William; and Skidmore, Richard H., 3,444,906.
Sprecher, Carl A., to Lebanon Machine & Manufacturing Co., Inc. Elbow immobilizer for use on male and female patients. 3,439,673, 4-22-69, Cl. 128-133.
Sprecher, Raymond G.: *See*—
de Claire, James H.; Ragsdale, La Verne B.; and Sprecher, Raymond G.,3,436,049.
Sprecher, Raymond G., to General Motors Corporation. Window regulator handle assembly. 3,477,309, 11-11-69, Cl. 74-547.
Sprengel, Heinz Ferdinand Johannes, to Blohm & Voss A.G. Cargo loading device. 3,446,363, 5-27-69, Cl. 212-3.
Sprenger, Kathleen E. Adjustable storage-shelf-dividing structure. 3,425,565, 2-4-69, Cl. 211-43.
Sprenkel, Roger, to American Tractor Equipment Corporation. VYBA mount. 3,461,971, 8-19-69, Cl. 172-710.
Spreter, Victor; and Schonfelder, Max. Imprinting and obliterating apparatus. 3,421,611, 1-14-69, Cl. 197-49.
Sprick, Walter F.: *See*—
Kifor, Harry T.; Sprick, Walter F.; Musser, Lester W.; and Levesque, Charles R.,3,430,533.
Spriestersbach, David Richard; Clarke, Ray Allen; Couper, Monroe; and Patterson, Hugh T., to Du Pont de Nemours, E. I., and Company. Sulfobetaine monomers, polymers thereof and composite filaments prepared from said polymers. 3,473,998, 10-21-69, Cl. 161-177.
Spriggs, Rueben S.; Learn, Arthur J.; and Scott-Monck, John A., to TRW Inc. Method of fabricating semiconductor devices and the like. 3,465,428, 9-9-69, Cl. 29-589.
Sprigings, Donald G.; and Martin, Gerald E., to Porter, H. K., Company, Inc. Electric current power-take-off device for enclosed busway systems. 3,422,387, 1-14-69, Cl. 339-14.
Spring, Claude L., to Jensen Industries, Incorporated. Signal means. 3,432,843, 3-11-69, Cl. 340-283.
Spring, Samuel, to Consolidated Foods Corporation, mesne. Sewer and drain cleaner composition. 3,471,407, 10-7-69, Cl. 252-157.
Springate, Norman C., to Lamb-Cargate Industries Limited. Back-up rolls for veneer lathes. 3,421,560, 1-14-69, Cl. 144-209.
Springer, Charles L., to Honeywell Inc. Electromagnetic transducer having a variable gap width for recording and checking said recording. 3,480,935, 11-25-69, Cl. 340-174.1
Springer, Earl W. Turn computer. 3,432,927, 3-18-69, Cl. 33-1.
Springer, Hartmut: *See*—
Meininger, Fritz; and Springer, Hartmut,3,445,449.
Springer, Hartmut; and Baier, Edwin, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Basic phthalocyanine dyestuffs. 3,426,016, 2-4-69, Cl. 260-239.6
Springer Industries, Inc.: *See*—
Robinson, Clifford C., 3,477,404.
Springer, Joseph F., Jr., to Philco-Ford Corporation. Shift register directly settable by optical means. 3,446,973, 5-27-69, Cl. 250-208.
Springfield, Robert L. Loom check strap. 3,485,273, 12-23-69, Cl. 139-161.
Springfors, Joran B. Toy boat having adjustable sinking means. 3,451,159, 6-24-69, Cl. 46-93.
Springob, Leonhard: *See*—
Geisel, Herbert; and Springob, Leonhard,3,472,992.
Springston, George B., Jr., to United States of America, Navy. Nekton sampler. 3,475,846, 11-4-69, Cl. 43-9.
Sprinter Pack AB: *See*—
Persson, Karl Rune, 3,454,209.
Sprinter-Pack AB: *See*—
Persson, Karl Rune, 3,433,402.
Sprogis, Andre: *See*—
Nigrelli, Biagio J.; Standley, Wendell E.; and Sprogis, Andre,3,454,149.
Sproles, John D.: *See*—
Pirrello, Antonio; and Sproles, John D.,3,429,423.
Sproston, Thomas, Jr., to Research Corporation. Antibiotic lambertellin and method for production. 3,438,998, 4-15-69, Cl. 260-343.2
Sproul, Fred C. Housing development layout. 3,427,645, 2-11-69, Cl. 52-169.
Sproul, James D., to General Steel Industries, Inc. High melting point glass beads with sharp melting range and process for making the same. 3,429,721, 2-25-69, Cl. 106-52.
Sproul, Jared S.; and Lapple, Walter C., to FMC Corporation. High density sodium tripolyphosphate. 3,437,434, 4-8-69, Cl. 23-106.
Sproul, Jared S.; McCarthy, Michael J.; and Lapple, Walter C., to FMC Corporation. High density sodium tripolyphosphate (form I). 3,437,433, 4-8-69, Cl. 23-106.
Sproule, John W.: *See*—
Spitz, Melvin P.; Sharp, Chester H.; and Sproule, John W.,3,431,567.
Sproule, Robert Stanley, to Dominion Engineering Works, Limited. Supply of sealing fluid for rotary fluid machines. 3,447,782, 6-3-69, Cl. 253-26.
Sproull, Reavis C.: *See*—
Berger, Richard M.; Sproull, Reavis C.; and Holden, Herbert K.,3,455,766.
Friesen, Gordon A.; and Sproull, Reavis C.,3,475,767.
Sprout Waldron & Company, Inc.: *See*—
Fisher, Chester Donald, 3,441,227.
Shook, Raymond E., Jr.; and Soars, Harold M., Jr., 3,473,745.
Sprow, Frank B., to Esso Research and Engineering Company. Alkylation with a forward-discharging impeller. 3,470,265, 9-30-69, Cl. 260-683.59
Sprow, Teren K.: *See*—
Gelin, Robert J.; and Sprow, Teren K.,3,462,081.
Sprow, William J.: *See*—
Truax, Robert C.; and Sprow, William J.,3,427,806.
Sprude, Edgar O.; and Marshall, Walter H., to Burroughs Corporation. Electrical module and system. 3,467,892, 9-16-69, Cl. 317-117.
Spruegel, Walter: *See*—
Jackson, Richard M.; and Spruegel, Walter,3,476,073.
Spruell, Jerry R. Fishhook sharpener. 3,468,068, 9-23-69, Cl. 51-71.
Spruitenburg, Marinus J.: *See*—
Anderson, James H.; and Spruitenburg, Marinus J.,3,467,419.
Sprung, Abraham. Key-actuated latch for casement windows. 3,468,142, 9-23-69, Cl. 70-89.

Sprung, Joseph A., to GAF Corporation. Light-sensitive silver halide print-out emulsions. 3,436,221, 4-1-69, Cl. 96-108.
Sprung, Joseph A., to GAF Corporation. Photomechanical emulsions containing a polyethylene glycol dicarboxylic acid ester. 3,471,297, 10-7-69, Cl. 96-107.
Spruth, Wilhelm G.: *See*—
Lem, Donald J.; and Spruth, Wilhelm G.,3,432,815.
Spruyt, Adriaan; Matteman, Joseph L.; and Bottinga, Harmen, to Reactor Centrum Nederland. Device for filtering, separating or agitating a liquid mixture composed of two phases having different specific gravities. 3,485,362, 12-23-69, Cl. 209-155.
Spruyt, Leo. Process for the industrial fabrication of plastic bags. 3,454,441, 7-8-69, Cl. 156-244.
Spry, James F., to Budd Company, The. Apparatus for dispensing and measuring strand material. 3,434,216, 3-25-69, Cl. 33-136.
Spry, William J., to Union Carbide Corporation. Process for producing fibrous graphite. 3,454,362, 7-8-69, Cl. 23-209.1
Spuhl A.-G.: *See*—
Spuhl, Walter, 3,451,443.
Spuhl, Walter, to Spuhl A.-G. Machines for manufacturing spring interiors. 3,451,443, 6-24-69, Cl. 140-92.7
Spuhler, Hans Peter, to Oerkikon-Buhrle Holding Ltd. Tailstock turret. 3,475,995, 11-4-69, Cl. 77-25.
Spuhler, Hanspeter; and Kolb, Wolfgang, to Oerlikon-Buhrle Holding Ltd. Device for imparting controlled displacements to machine tool members. 3,473,395, 10-21-69, Cl. 74-57.
Spunize Company of America, Inc.: *See*—
Rosenstein, Nathan; and Rosenstein, Abraham J., 3,429,018.
Spur, Guenter, to Werkzeugmaschinenfabrik Gildemeister & Comp. AG. Mutiple spindle machine. 3,423,812, 1-28-69, Cl. 29-38.
Spura, Richard: *See*—
Pech, Vaclav; Vebr, Jan; and Spura, Richard,3,477,100.
Spurk, Joseph H., to United States of America, Army. Transition section having a constant cross sectional area. 3,421,781, 1-14-69, Cl. 285-176.
Spurlin, Harold M.; and Weldy, Winfred E., to Hercules Incorporated. High molecular weight poly(4-methyl-1-pentene) fiber. 3,445,442, 5-20-69, Cl. 260-93.7
Spurlock, Burwell: *See*—
Jacobson, Robert L.; and Spurlock, Burwell,3,449,237.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell,3,434,960.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell,3,487,009.
Spurlock, Burwell, to Chevron Research Company. Catalyst pretreatment process. 3,438,888, 4-15-69, Cl. 208-138.
Spurlock, Jack M.; and Durfee, Robert L., to Electro Medical Systems, Inc., mesne. Pump. 3,453,967, 7-8-69, Cl. 103-148.
Spurlock, Langley A.: *See*—
Newallis, Peter E.; and Spurlock, Langley A.,3,475,452.
Spurr, Eugene V.; Walker, Robert R.; and Steiniger, George W., to Allegheny Ludlum Steel Corporation. Apparatus for stretching tubing. 3,469,425, 9-30-69, Cl. 72-46.
Spurr, Robert, to Emhart Corporation. Container inspection machine. 3,422,542, 1-21-69, Cl. 33-174.
Spurr, Robert; and Gardner, Edward Boyd, to Emhart Corporation. Glassware inspection mechanism. 3,483,971, 12-16-69, Cl. 209-80.
Spyra, Rudolf A. Spiral disk drive coupling. 3,448,591, 6-10-69, Cl. 64-15.
Spyra, Rudolf A. Universal joints. 3,465,546, 9-9-69, Cl. 64-17.
Spyra, Wolfgang: *See*—
Bungardt, Karl; and Spyra, Wolfgang,3,441,406.
Spyridakis, Emanuel G.: *See*—
Lutz, John G.; and Spyridakis, Emanuel G.,3,469,500.
Square D Company: *See*—
Anger, Ernest G., 3,473,100.
Beard, Kenneth R., 3,472,303.
Bugni, Donald S.; and Paape, Kenneth L., 3,475,576.
Cinatl, Fred J.; and Lehman, Lewis M., 3,478,299.
Croft, Arthur E.; and Moodie, Ernest W., 3,453,585.
Dessert, Edward P., 3,426,164.
Dessert, Edward P., 3,436,695.
Downs, Harold H.; and Issa, Manuel A., 3,426,319.
Dunham, Robert W.; and Vyskocil, Charles D., 3,443,258.
Duvall, Harold A.; and Williams, Albert J., 3,472,982.
Eckl, James J., 3,450,903.
Fischer, Donald G.; and Jones, Clifford W., 3,433,270.
Guettel, Marvin A., 3,484,620.
Hall, John S.; and Carpenter, Peter E. G., 3,467,920.
Hall, John S.; Carpenter, Peter E. G.; and Cook, David L., 3,470,507.
Jorgensen, George N., 3,446,911.
Jorgensen, George N., 3,461,222.
King, Franklyn D.; and Butler, De Forest D., 3,428,203.
Latter, Charles F., 3,431,547.
Layton, Beryl W.; and Dunham, Robert W., 3,480,890.
Meyer, Charles F., 3,422,243.
Meyer, Charles F.; and Wieczorek, Robert A., 3,445,679.
Paape, Kenneth L., 3,469,149.
Puetz, Jordan F., 3,432,628.
Puetz, Jordan F., 3,432,787.
Rys, Tadeusz J.; and Reed, Ronald H., 3,422,238.
Stallman, James E., 3,472,986.
Stanback, Harris I., 3,431,469.
Stark, Edward J.; Bugni, Donald S.; and Paape, Kenneth C., 3,482,143.
Vincent, Lawrence, 3,472,946.
Wieczorek, Robert A., 3,473,054.
Squassoni, Gino F.; Hermanson, Herman A.; McCarroll, Alan F.; and Zurovskis, Egon, to Xerox Corporation. Microfilm recording apparatus. 3,442,588, 5-6-69, Cl. 88-24.
Squibb, E. R., & Sons, Inc.: *See*—
Bernstein, Jack; and Losee, Kathryn Alice, 3,438,985.
Bernstein, Jack, 3,465,041.
Bernstein, Jack, 3,474,132.
Bodanszky, Miklos, 3,420,816.
Breuer, Hermann, 3,474,462.
Bruno, Gerald A.; Haney, Thomas A.; Numerof, Paul; and Reinhardt, Karl, 3,440,423.
Diassi, Patrick A., 3,426,045.
Diassi, Patrick A., 3,429,926.
Diassi, Patrick A., 3,449,378.
Dondzila, Frank A.; Restivo, Albert R.; and Yale, Harry L., 3,426,020.
Dursch, Friedrich, 3,442,916.
Fried, Josef; and Galantay, Eugene E., 3,446,821.
Fried, Josef; and Galantay, Eugene E., 3,472,877.
Fried, Josef, 3,484,453.
Heuser, Leon John; Chiang, Ching; and Anderson, Carl Francis, 3,446,705.
Hill, John A., 3,458,622.
Hydorn, Allen E., 3,445,479.
Kinney, Roland Walter; Neidleman, Saul Lewis; Weisenborn, Frank Lee; and Schwarz, John Samuel Paul, 3,462,487.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter, 3,422,134.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter, 3,483,191.
Krakower, Gerald W.; Fried, Josef; and Rosenthal, David Walter, 3,483,225.
Krapcho, John, 3,427,309.
Krapcho, John, 3,441,564.
Krapcho, John, 3,455,902.
Krapcho, John, 3,455,915.
Krapcho, John, 3,459,748.
Krapcho, John, 3,471,481.
Krapcho, John, 3,475,423.
La Via, Anthony Laurence, 3,440,065.
Lagier, Jean-Claude, 3,475,629.
Lerner, Leonard Joseph, 3,449,494.
Levine, Seymour D., 3,420,855.
Levine, Seymour D.; and Diassi, Patrick A., 3,424,786.
Levine, Seymour D.; and Diassi, Patrick A., 3,424,787.
Levine, Seymour D.; and Diassi, Patrick A., 3,439,023.
Levine, Seymour D., 3,449,376.
Levine, Seymour D.; and Diassi, Patrick A., 3,449,377.
Levine, Seymour D.; and Weisenborn, Frank L., 3,452,044.
Levine, Seymour D., 3,461,124.
Levine, Seymour D., 3,463,792.
Levine, Seymour D.; and Diassi, Patrick A., 3,468,955.
Levine, Seymour D.; and Principe, Pacifico A., 3,471,495.
Levine, Seymour D., 3,483,202.
Levine, Seymour D.; and Diassi, Patrick A., 3,483,223.
Machleidt, Hans; and Hartmann, Valentin, 3,435,063.
Moret, Michel A.; Fresard, Marcel; and Lagier, Jean-Claude, 3,471,725.
Myers, Dirck V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B., 3,458,397.
Nager, Urs Felix; and Dursch, Friedrich, 3,451,992.
Narayanan, Venkatachala L., 3,471,491.
Narayanan, Venkatachala L.; and Bernstein, Jack, 3,483,204.
Neidleman, Saul L.; Kinney, Roland W.; and Weisenborn, Frank L., 3,463,791.
Pan, Samuel C.; Principe, Pacifico A.; and Junta, Barbara, 3,431,174.
Pan, Samuel C.; and Lerner, Leonard J., 3,451,995.
Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A., 3,429,778.
Pan, Samuel Cheng; Junta, Barbara; and Principe, Pacifico A., 3,429,779.
Perlman, David, 3,463,705.
Principe, Pacifico; and Levine, Seymour D., 3,479,391.
Riffkin, Charles; and Goldberg, Martin, 3,426,130.
Rosenthal, David Walter; and Fried, Josef, 3,484,476.
Schwarz, John Samuel Paul; Weisenborn, Frank L.; and Neidleman, Saul Lewis, 3,438,999.
Stearns, Barbara, 3,484,228.
Tschesche, Rudolf; Riemhofer, Franz; and Bernstein, Jack, 3,466,327.
Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack, 3,485,819.
Yale, Harry Louis; and Sowinski, Francis A., 3,448,102.
Yale, Harry L.; and Bernstein, Jack, 3,452,046.
Yale, Harry L., 3,455,920.

Yale, Harry L., 3,463,778.
Squibb, Edward R., III: *See—*
Maurya, Ramamurat R.; Harrington, Joseph, Jr.; and Squibb, Edward R., III,3,478,410.
Squibb, W. R., & Sons, Inc.: *See—*
Bernstein, Jack, 3,444,232.
Squier, Charles A.: *See—*
Hughes, Joseph V., Jr.; and Squier, Charles A.,3,428,716.
Squiers, David J., to Texas Instruments Incorporated. Control apparatus. 3,426,178, 2-4-69, Cl. 219-502.
Squinto, Leonard O.: *See—*
Packard, Norman M.; Squinto, Leonard O.; and Lezi, William,3,463,057.
Packard, Norman M.; Squinto, Leonard O.; and Lenzi, William,3,464,707.
Squire, Edward N.: *See—*
Selman, Stanley; and Squire, Edward N.,3,480,603.
Squire, George L.: *See—*
Ward, John M.; and Squire, George L.,3,454,453.
Squires, Arthur M. Apparatus for combined gas-steam power cycle. 3,436,909, 4-8-69, Cl. 60-39.18
Squires, Arthur M. Apparatus for combined gas-steam-ammonia cycle. 3,436,911, 4-8-69, Cl. 60-39.18
Squires, Arthur M. Apparatus for combined steam-ammonia cycle. 3,436,912, 4-8-69, Cl. 60-39.18
Squires, Arthur M. Agglomerating coal hydrocarbonization process. 3,437,561, 4-8-69, Cl. 201-8.
Squires, Arthur M. Producing sulfur from calcium sulfate. 3,460,912, 8-12-69, Cl. 23-224.
Squires, Arthur M. Process and apparatus for desulfurizing fuels. 3,481,834, 12-2-69, Cl. 201-17.
Squires, George R. Shelving structure. 3,481,486, 12-2-69, Cl. 211-153.
Squires, Paul Herman, to Du Pont de Nemours, E. I., and Company. Process for coextruding multiple-layered thermoplastic sheeting. 3,476,627, 11-4-69, Cl. 156-244.
Squirrell, Frederick: *See—*
Lowe, Walter Max; and Squirrell, Frederick,3,460,457.
Squitieri, Vincent; and Wollmar, Dick J., to Grace, W. R., & Co. Matrix material for molding duplicate printing plates. 3,483,074, 12-9-69, Cl. 161-214.
Sramek, Bohumir. Gated differential to single-ended amplifier. 3,466,562, 9-9-69, Cl. 330-30.
Sredl, Predrag V., to Southern Textile Machinery Company, Incorporated. Hosiery inspecting and bagging apparatus. 3,478,940, 11-18-69, Cl. 223-43.
Sridhar, Tiruchendurai Viswanathan: *See—*
Bates, James John; and Sridhar, Tiruchendurai Viswanathan,3,453,513.
Srinivasan, Chitoor V., to RCA Corporation. System for automatic correction of burst-errors. 3,478,313, 11-11-69, Cl. 340-146.1
Srinivasan, Rangaswamy, to International Business Machines Corporation. Photochemical method of preparing bicyclo [1.1.0] butane and cyclobutene. 3,427,241, 2-11-69, Cl. 204-162.
Srinivasan, Rangaswamy, to International Business Machines Corporation. Solvent strippable photosensitive compositions and method of production therefor. 3,458,312, 7-29-69, Cl. 96-36.
Srinivasan, Rangaswamy, to International Business Machines Corporation. Photosensitive compositions. 3,480,441, 11-25-69, Cl. 96-115.
SRM Company: *See—*
Snyder, Clifford H., Jr., 3,446,245.
Wilcox, Wayne E., 3,420,497.
S.R.M. Hydromekanik AB: *See—*
Ahlen, Karl G., 3,426,876.
Srna, Christian: *See—*
Lautenschlager, Walter; Srna, Christian; and Schuster, Ludwig,3,427,363.
Srobel, Albert F.; and Catino, Sigmund C., to GAF Corporation. Hydrazone sun-screening compounds. 3,462,479, 8-19-69, Cl. 260-501,11
Sroka, Kenneth J.: *See—*
Letwin, Bruce K.; and Sroka, Kenneth J.,3,465,612.
S.S. & S. Company: *See—*
Saylor, William H., 3,486,388.
S. S. & S. Company: *See—*
Saylor, William H., 3,448,444.
S.S.S. Patents Limited: *See—*
Clements, Herbert A., 3,433,338.
Clements, Herbert A.; and Heybourne, Robert H., 3,458,021.
St. Alban, Jonas: *See—*
Grimmel, Harry W.; and St. Alban, Jonas,3,445,451.
St. Barnabas' Free Home:*See—*
Hopkinson, Paul O. W., 3,482,318.
St. Clair, Albert R.; and Maynard, Robert W., to Mosler Safe Company, The. Safe. 3,421,461, 1-14-69, Cl. 109-24.
St. Clair, Donald R., to General Time Corporation. Environmental fuze device for air-dropped flares and the like. 3,421,442, 1-14-69, Cl. 102-83.
St. Clair, Donald R.; and Redfield, William H., to General Time Corporation. Convertible scale speedometer construction. 3,446,178, 5-27-69, Cl. 116-116.
St. Clair, Gordon P., to Medical Supply Company. Bandage compress and method of manufacture. 3,421,502, 1-14-69, Cl. 128-156.
St. Clair, Harold R., Jr. Retractable key holder. 3,421,349, 1-14-69, Cl. 70-414.
St. Clair, John C.Rotary switch with NαOH solution between rotor and stator. 3,432,742, 3-11-69, Cl. 321-50.
St. Clair, John C. Making steam for gasifying coal. 3,441,394, 4-29-69, Cl. 48-202.
St. Clair, John C. Expendable magnesium cores for use in casting plastics of organic polymers. 3,463,848, 8-26-69, Cl. 264-238.
St. Clair, John C. High temperature gas valve. 3,478,772, 11-18-69, Cl. 137-340.
St. Clair, John C. Using expendable metal cores for casting plastics or organic polymers. 3,480,708, 11-25-69, Cl. 264-221.
St. Clair, John C. Blasting with liquid oxygen explosives with the aid of captive balloons. 3,482,515, 12-9-69, Cl. 102-23.
St. Clair, Michael J.; and Keady, William L., to Advalloy, Inc. Lead frame assembly for semiconductor devices. 3,469,953, 9-30-69, Cl. 29-193.5
St. Clair, Michael J.: *See—*
Keady, William L.; St. Clair, Michael J.; and Hazen, James T.,3,469,684.
St. Clair, Theodore A., to Textron Inc. Meter and side-mounted regulator combination. 3,433,067, 3-18-69, Cl. 73-199.
St. Cyr, Augustine L.: *See—*
Moushegian, Harry; and St. Cyr, Augustine L.,3,482,532.
St. Cyr, Napoleon. Towing arrangement for transportation of surfboards and their riders. 3,486,463, 12-30-69, Cl. 104-173.
St. Germain, Alfred R., to Oxford Wool Filler Incorporated. Braids for braided rugs. 3,485,135, 12-23-69, Cl. 87-6.
St. Jean, Robert R. Apparatus for trapping and retrieving. 3,428,353, 2-18-69, Cl. 294-15.
St. John, Albert E., to United States of America, Air Force. Multiple internal reflection structure in a silicon detector which is obtained by sandblasting. 3,487,223, 12-30-69, Cl. 250-216.
St. John, Colin, to Conquip Limited. Automatic control for track surfacing machines. 3,459,136, 8-5-69, Cl. 104-7.
St. John, Douglas F.: *See—*
Johnson, William E.; and St. John, Douglas F.,3,473,467.
St. John, Douglass F.: *See—*
Richards, Raymond S.; and St. John, Douglass F.,3,423,573.
St. John, Richard C., to General Time Corporation. Electromechanical transducer for use as safety and arming device in fuzes. 3,435,766, 4-1-69, Cl. 102-70.2
St. Joseph Lead Company: *See—*
Bowman, Robert S., 3,475,351.
Lloyd, Arnold; and Newson, Exeter Robert, 3,439,411.
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H., 3,483,046.
Rose, Michael V.; Bowman, Robert S.; and Kanzelmeyer, James H., 3,484,305.
St. Julian, Grant, to United States of America, Agriculture. Process for delayed production of Japanese beetle larvae. 3,463,122, 8-26-69, Cl. 119-6.
St. Laurence, William A.; and Halberstadt, Lewis James, to Pro-Phy-Lac-Tic Brush Company. Brushes and method for their manufacture. 3,425,084, 2-4-69, Cl. 15-195.
St. Laurent, Norman R., to United Aircraft Corporation. Reactor seal incorporating a pivotal orifice member. 3,453,987, 7-8-69, Cl. 118-48.
St. Louis Diecasting Corporation: *See—*
Ryan, Robert R.; and Werner, Leonard G., 3,463,188.
St. Louis, Donald L., to Alaska Elevator Corporation. Offshore elevator. 3,463,271, 8-26-69, Cl. 187-27.
St. Louis Shipbuilding-Federal Barge, Inc.: *See—*
Gowan, John W., 3,420,979.
St. Louis University: *See—*
Breckwoldt, Gerhard H., 3,471,944.
St.Mard, Hubert H.; Hamalainen, Carl; and Cooper, Albert S., Jr., to United States of America, Agriculture. Process for imparting to a cellulosic textile resistance to rot and weathering. 3,420,699, 1-7-69, Cl. 117-138.5
St. Marys Tool & Die, Inc.: *See—*
Coy, Donald L., 3,483,799.
St. Onge, David L., to Bausch & Lomb, Incorporated. 12.5x Magnification semiobjective with field flattening lens. 3,471,219, 10-7-69, Cl. 350-216.
St. Paul Ammonia Products, Inc.: *See—*
Segar, Thomas W.; and Go, Ting Sin, 3,433,584.
St. Pierre, Frederick W.: *See—*
Natschke, Eldred H.; and St. Pierre, Frederick W.,3,437,180.

St. Pierre, Philippe D. S., to General Electric Company. Direct production of metal carbides and metals from ores. 3,471,284, 10-7-69, Cl. 75-84.
St. Pierre, Richard Ernest: *See*—
Price, Billy Ray; St. Pierre, Richard Ernest; and Lloyd, Neil E.,3,477,445.
St. Regis Paper Company: *See*—
Amerio, Pasquale, 3,472,041.
Chambless, Edward J., Jr., 3,421,286.
Kleeberg, Gunther K. E., 3,443,745.
Koch, Edward J., 3,464,087.
Lohse, Hardy Gotthard, 3,447,954.
Mueller, John Burk, 3,446,419.
Sganga, Francis Thomas, 3,465,453.
Sheets, Thomas M., 3,421,287.
Smith, Donald F.; Russell, James; and Deretchin, David R., 3,454,419.
Thousand, John William, Jr., 3,473,449.
Titchenal, Oliver R.; Jark, Fred; Coombes, William S.; and Ruf, Walter, 3,465,876.
Wakeman, Alden Harvey; Roahen, Dan Crabill; and Knox, Rodney Lee, 3,465,439.
St. Regis-Consolidated Packaging Limited: *See*—
Larson, Frank William Douglas Landor, 3,432,678.
Sta-Hi Corporation: *See*—
Thull, John F., 3,464,537.
Thull, John F.; and Oderman, Samuel, 3,476,384.
Sta-Rite Industries, Inc.: *See*—
Branton, Donald L., 3,469,596.
Simons, Clifford G., 3,480,038.
Simons, Clifford G., 3,480,252.
Simons, Clifford G., 3,484,516.
Staab, Jacob Emor: *See*—
Sunderlin, Donald Edward; Staab, Jacob Emor; and Oldenburg, Dorrance,3,435,908.
Staal, Hermannes Jan: *See*—
Ubbels, Jacob; and Staal, Hermannes Jan,3,438,131.
Staal, Philip Ward, to Miles Laboratories, Inc. Electrolytic reduction process using silicic acid coated membrane. 3,424,659, 1-28-69, Cl. 204-74.
Staal, Philip Ward, to Miles Laboratories, Inc. Process utilizing ion exchange membrane for electrolytic reduction of aromatic nitro compounds. 3,475,300, 10-28-69, Cl. 204-74.
Staar, Marcel Jules Helene. Record players. 3,484,111, 12-16-69, Cl. 274-9.
Staar, S.A.: *See*—
Schatteman, Etienne Arthur Marie, 3,433,428.
Staar, Theophiel Clement Jozef Lodewijk, 3,429,519.
Staar, Theophiel Clement Jozef Lodewijk, to Staar, S.A. Tape cartridge positioning and driving apparatus. 3,429,519, 2-25-69, Cl. 242-55.13
Staar, Theophiel Clement Jozef Lodewijk, to Starr S. A. Record changing apparatus. 3,432,170, 3-11-69, Cl. 274-10.
Staas, Frans Adrianus, to U.S. Philips Corporation. Apparatus and method for transferring heat from a lower temperature level to a higher temperature level. 3,472,038, 10-14-69, Cl. 62-45.
Staats, Henry N., to General Binding Corporation. Plastic binding and apparatus for dispensing same. 3,475,775, 11-4-69, Cl. 11-1.
Staats, Henry N.; Levitan Maurice D.; and Morrissey, Neal J., to General Binding Corporation. Method and apparatus for sealing bindings. 3,483,067, 12-9-69, Cl. 156-580.
Staats, Henry N.; Vincent, Donald P.; and Winkelmann, John F., to General Binding Corporation. Punch construction. 3,427,914, 2-18-69, Cl. 83-467.
Staats, Henry N.; and Winkelmann, John F., to General Binding Corporation. Method of binding a plurality of sheets. 3,433,688, 3-18-69, Cl. 156-85.
Staats, James E., to General Electric Company. Microwave coupling structure and transmission line. 3,421,115, 1-7-69, Cl. 333-1.
Staats, James E., to General Electric Company. Crossed-field discharge devices and microwave oscillators and amplifiers incorporating the same. 3,443,150, 5-6-69, Cl. 315-39.51
Staats, James E., to General Electric Company. Crossed-discharge device and coupler therefor and microwave circuits incorporating the same. 3,456,151, 7-15-69, Cl. 315-39.51
Staats, James E., to General Electric Company. Crossed-field discharge devices and couplers therefor and oscillators and amplifiers incorporating the same. 3,458,753, 7-29-69, Cl. 315-39.3
Staats, James E., to General Electric Company. Crossed-field discharge device and microwave circuits incorporating the same. 3,458,755, 7-29-69, Cl. 315-39.51
Staats, James E., to General Electric Company. Crossed-field discharge device and improved magnetic pole structures therefor. 3,459,994, 8-5-69, Cl. 315-39.71
Staats, James E.; and Ogburn, Robert D., to General Electric Company. Ultra-high frequency control and power supply systems. 3,445,784, 5-20-69, Cl. 331-86.
Staats, Louis T., Sr.; Misener, Cecil D.; and Innis, Frank B. Fruit picker. 3,475,888, 11-4-69, Cl. 56-328.
Staats, Robert C., to Honeywell Inc. Electrostatically supported rotor for inertial system. 3,469,457, 9-30-69, Cl. 74-5.4
Staats, William R.: *See*—
Weil, Sanford A.; and Staats, William R.,3,470,708.
Staba, Edward A., to Olin Mathieson Chemical Corporation. Contained compacted ammunition primer composition and method of preparation. 3,420,137, 1-7-69, Cl.
Staba, Edward A., to Olin Mathieson Chemical Corporation. Ammunition priming composition of dry, particulate ingredients with karaya gum binder. 3,423,259, 1-21-69, Cl. 149-24.
Staba, Edward A.: *See*—
Silva, Joseph W.; and Staba, Edward A.,3,463,086.
Stabeler, Eberhard; and Dunger, Alfred, to VEB Gardinen-u. Dekowerke Zwickau. Apparatus for the regulation of knitting machines. 3,469,418, 9-30-69, Cl. 66-56.
Stabenow, Joachim: *See*—
Naarmann, Herbert; Stabenow, Joachim; and Kastning, Ernst-Guenther,3,481,895.
Stabilator Aktiebolag: *See*—
Ahlgren, Hans H.; and Leidvik, Martin, 3,441,097.
Jansson, Bengt K. B., 3,422,903.
Stabile, Christopher: *See*—
Litman, Bernard; Silvia, Everett R.; and Stabile, Christopher,3,479,888.
Stabile, Lucio, to Vanguard U.S. Apparatus for controlling the speed of direct current electric motors. 3,421,065, 1-7-69, Cl. 318-327.
Stabilimenti Chimico-Farmaceutici Dr. R. Ravasini & C. ia S.p.A.: *See*—
Banci, Feriano; and Tubaro, Ezio, 3,420,839.
Stabilus, Industrie und Handelsgesellschaft m.b.H.: *See*—
Dorner, Nikolaus; Freitag, Herbert; Sautter, Hans-Dieter; Schafer, Willi; and Doetsch, Hans-Peter, 3,447,645.
Stabilus Industrie-und Handelsgesellschaft m.b.H.: *See*—
Doetsch, Hans Peter, 3,444,830.
Stabrylla, Robert G.: *See*—
Howald, Werner E.; and Stabrylla, Robert G.,3,420,058.
Stac, Hugh J., to Parker-Hannifin Corporation. Flow control valve having a pressure limiting tubular valve member. 3,439,583, 4-22-69, Cl. 91-420.
Stacey, Hugh J., to Parker-Hannifin Corporation. Directional control valve. 3,456,671, 7-22-69, Cl. 137-118.
Stacey, Hugh J.: *See*—
Martin, George J.; and Stacey, Hugh J.,3,426,647.
Stacey, Michael Albert; and Millington, David Everitt, to Lucas, Joseph, (Industries) Limited. Method of manufacturing gate controlled switches. 3,468,017, 9-23-69, Cl. 29-571.
Stach, Kurt: *See*—
Gal, Rudi; Haack, Erich; Stach, Kurt; Schaumann, Wolfgang; and Ritter, Klaus,3,462,432.
Gall, Rudi; Stach, Kurt; and Voemel, Wolfgang,3,483,193.
Haack, Erich; Peschke, Wilhelm; Stach, Kurt; Schmidt, Felix H.; and Weber, Helmut,3,439,033.
Stach, Kurt, to Boehringer, C. F., & Soehne G.m.b.H. Dibenzooxepine and dibenzothiepine derivatives. 3,438,981, 4-15-69, Cl. 260-240.
Stach, Kurt; Winter, Werner; Schaumann, Wolfgang; and Ribbentrop, Annemarie, to Boehringer, C. F., & Soehne GmbH. Xanthene-9-ol-9-carboxylic acid esters. 3,454,582, 7-8-69, Cl. 260-294.3
Thiel, Max; Winter, Werner; Stach, Kurt; Schaumann, Wolfgang; and Dietmann, Karl,3,471,472.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt,3,462,528.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt,3,476,742.
Stache, Ulrich: *See*—
Fritsch, Werner; and Stache, Ulrich,3,471,480.
Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Ruschig, Heinrich,3,468,918.
Fritsch, Werner; Stache, Ulrich; and Haede, Werner,3,454,563.
Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt,3,455,910.
Stache, Ulrich; Fritsch, Werner; and Haede, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Unsaturated lactones of the steroid series and process for preparing them. 3,420,820, 1-7-69, Cl. 260-239.57
Stache, Ulrich; Fritsch, Werner; Haede, Werner; Radscheit, Kurt; and Vogel, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3-Cyanomethylene-androstenes and -oestrenes and process for their preparation. 3,483,233, 12-9-69, Cl. 260-397.3
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3-Carbalkoxy-methylene-steroids and process for preparing them. 3,462,421, 8-19-69, Cl. 260-239.55
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3-Cyanomethylene-pregnenes and their manufacture and use. 3,474,091, 10-21-69, Cl. 260-239.5

Haede, Werner; Radscheit, Kurt; Fritsch, Werner; Stache, Ulrich; and Ruschig, Heinrich,3,461,145.
Stachowiak, John E.: *See*—
Berryman, William O.; and Stachowiak, John E.,3,448,806.
Stachowiak, John E., to Schlumberger Technology Corporation. Well packer valve structure. 3,457,994, 7-29-69, Cl. 166-125.
Stachowiak, Robert W., Sr.; and Campbell, Everett W., to Goodyear Tire & Rubber Company, The. Suspenoid composition. 3,484,426, 12-16-69, Cl. 260-94.3
Stachurski, Zbigniew, to Yardney International Corporation. Rechargeable current-generating electrochemical system with wiper means. 3,440,098, 4-22-69, Cl. 136-6.
Stack, Eugene A.: *See*—
Bobrowsky, Alfred; and Stack, Eugene A.,3,482,424.
Stack, Richard W.: *See*—
Calnon, Donald C., Jr.; Fillinger, Russell V.; Holznagel, Melvin A.; and Stack, Richard W.,3,426,237.
Stackegard, Hans A., to Allmanna Svenska Elektriska Aktiebolaget. Balancing of harmonics at converter stations in asymmetrical working. 3,448,286, 6-3-69, Cl. 307-82.
Stackegard, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Means for controlling reactive power in an inverter station. 3,424,971, 1-28-69, Cl. 321-18.
Stackegard, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Power transmission plant for high voltage direct current comprising at least three converter stations with switching means therebetween. 3,448,285, 6-3-69, Cl. 307-18.
Stackman, Robert W.; and Evers, William L., to Celanese Corporation. Isonitrile polymers. 3,423,333, 1-21-69, Cl. 260-2.
Stackpole Carbon Company: *See*—
Bang, Mogens W., 3,431,529.
Bang, Mogens W., 3,431,530.
Bang, Mogens W.; Hanson, Earl A.; and Eichmiller, Frederick E., 3,448,428.
Bang, Mogens W., 3,465,277.
Bang, Mogens W., 3,477,057.
Kosco, John C., 3,483,439.
Olson, Davis A., 3,457,377.
Shaler, Amos J., 3,453,978.
Shaler, Amos J., 3,454,803.
Stackpole Components Company: *See*—
Campbell, Dudley H., 3,486,157.
Stad, Andrew N.: *See*—
Gegenheimer, Harold W.; and Stad, Andrew N.,3,452,673.
Stade, Gerhard, to Lindner, Herbert, GmbH. Cam control means for relief grinding apparatus. 3,444,653, 5-20-69, Cl. 51-165.
Stade, John H.: *See*—
Salivar, Charles J.; and Stade, John H.,3,446,596.
Stadelmann, Joachim P., to Chrysler Corporation. Fuel level sending unit. 3,449,955, 6-17-69, Cl. 73-313.
Staden, Alfred Alexander, to Shoe and Allied Trades Research Association. Methods and apparatus for forming and preforming shoe upper foreparts. 3,445,873, 5-27-69, Cl. 12-146.
Stadig, William P.: *See*—
Rice, Billy D.; and Stadig, William P.,3,461,110.
Stadler, Bruno: *See*—
Merhof, Wilfried; and Stadler, Bruno,3,435,327.
Stadler, Fritz; and Fichte, Rudolf, to Gesellschaft fur Elektrometallurgie m.b.H. Ferro-alloys containing niobium and titanium. 3,442,644, 5-6-69, Cl. 75-124.
Stadler, Hans; and Gawlick, Heinz, to Dynamit Nobel Aktiengesellschaft. Ammunition. 3,442,205, 5-6-69, Cl. 102-92.7
Stadler, Hans; Gawlick, Heinz; and Marondel, Gunther, to Dynamit Nobel Aktiengesellschaft. Artillery cartridge. 3,446,146, 5-27-69, Cl. 102-45.
Stadler, Hans; Gawlick, Heinz; and Umbach, Hans, to Dynamit Nobel Aktiengesellschaft. Electrically ignited primer element. 3,427,972, 2-18-69, Cl. 102-46.
Stadler, Henry L., to Ford Motor Company. Transducer utilizing electrically polarizable material. 3,448,348, 6-3-69, Cl. 317-231.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert, to Sandoz Ltd., a/k/a Sandoz A.G.Ergot alkaloids methylated in the 10a'-position. 3,422,110, 1-14-69, Cl. 260-268.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert, to Sandoz Ltd., a/k/a Sandoz A.G. Preparation of ergot alkaloids. 3,428,639, 2-18-69, Cl. 260-268.
Stadlmann, Georg: *See*—
Lambrecht, Josef; and Stadlmann, Georg,3,427,012.
Staebler, Paul J.: *See*—
Crawford, James L.; and Staebler, Paul J.,3,458,928.
Staebler, Paul J.; Crawford, James L.; Fangman, Charles N.; and McCutchen, Robert R., to Caterpillar Tractor Company. Rotor construction. 3,447,012, 5-27-69, Cl. 310-262.
Staedtler, J. S., Kommanditgesellschaft: *See*—
Dziuk, Peter; and Ertl, Willi, 3,424,210.
Dziuk, Peter, 3,427,114.
Matschkal, Franz, 3,459,486.
Staehle, Carl, to Gray, G. A., Company, The. Apparatus for cleaning machine tool ways. 3,485,138, 12-23-69, Cl. 90-11.
Staehli, Peter, to Frohlich, E., AG. Weaving heddle for rider-movable weaving shaft. 3,437,113, 4-8-69, Cl. 139-93.
Staelens, Sylvere Jules: *See*—
De Raedt, Egide Jacob Hendrik; De Bruyne, Georges Pieter Adolf Mathildis; and Staelens, Sylvere Jules,3,487,172.
Staeuble, Max: *See*—
Hari, Istvan; and Staeuble, Max,3,483,230.
Weber, Kurt; Staeuble, Max; Ulrich, Paul; and Kern, Walter,3,464,780.
Staffin, Gerald D.: *See*—
Panzer, Jerome; Longoez, Edward J.; Staffin, Gerald D.; and Goodson, Robert M.,3,446,737.
Stafford, Donald C.; Chamberlin, Robert S.; and Johnson, Paul R., to Chicago Bridge & Iron Company. Removable metallurgical processing assembly. 3,441,262, 4-29-69, Cl. 266-36.
Stafford, Donald Claude; and Chamberlin, Robert Simons, to Chicago Bridge & Iron Company. Offshore storage structure. 3,429,128, 2-25-69, Cl. 61-46.5
Stafford, Edwin G., Jr. Inflatable dunnage bag for railway cargos. 3,427,995, 2-18-69, Cl. 105-369.
Stafford, Henry R., to Bendix Corporation, The. Indexable control mechanism. 3,478,624, 11-18-69, Cl. 77-32.1
Stafford, John A., to Schlumberger Technology Corporation. Well tool position indicator. 3,430,712, 3-4-69, Cl. 175-40.
Stafford, John A., to Schlumberger Technology Corporation. Displacement of oscillographic traces. 3,460,151, 8-5-69, Cl. 346-1.
Stafford, Owen L., to Dow Chemical Company, The. Polymerization of olefins. 3,446,785, 5-27-69, Cl. 260-93.1
Stafford, Owen L.; Wing, Donald V.; and Stolsmark, Duane E., to Dow Chemical Company, The. ABS polymers and process for making the same. 3,442,981, 5-6-69, Cl. 260-880.
Stafford, Robert L.; and Warriner, Earl W., Sr. Two-way flush tank control. 3,421,161, 1-14-69, Cl. 4-67.
Stafford, Robert M. Watherproofing system and envelope panel therefor. 3,481,087, 12-2-69, Cl. 52-2.
Stafford, Thomas S.: *See*—
Crockett, Peter N.; Hackl, Frank J.; and Stafford, Thomas S.,3,465,132.
Stafford, Thomas S.; and Krygowski, Matthew A., to International Business Machines Corporation. Program suspension system. 3,453,600, 7-1-69, Cl. 340-172.5
Stafford Tool and Die Company Limited: *See*—
Prew, Thomas B., 3,459,090.
Stafiej, Stanley Frank: *See*—
Benjamin, Lawrence Elnathan; and Stafiej, Stanley Frank,3,475,491.
Staflex International Limited: *See*—
Barb, Wolfgang Gerson, 3,464,876.
Stageberg, Sterling O. Method for curling hair. 3,420,246, 1-7-69, Cl. 132-7.
Stager, Francis W.: *See*—
Haviland, Girard S.; Gerber, Murray A.; and Stager, Francis W.,3,447,838.
Stagg, Theodore B., Jr.: *See*—
Peters, James; Clift, Mason A., Jr.; Stagg, Theodore B., Jr.; and Davis, Francis E., Jr.,3,469,111.
Stagg, Uberto K., Jr.: *See*—
Clement, George F.; Compton, Harry B.; Stagg, Uberto K., Jr.; and Zebe, Charles W.,3,441,681.
Staggs, Donald R.: *See*—
La Pierre, James F.; and Staggs, Donald R.,3,482,758.
Staggs, Oscar L.: *See*—
Jansen, Joseph Nicholas; and Staggs, Oscar L.,3,466,571.
Stahel, Peter; Wegmann, Jacques; and Ruetimeyer, Bernhard, to Ciba Limited. Process for dyeing or printing polyhydroxylated materials. 3,424,543, 1-28-69, Cl. 8-54.2
Staheli, Arthur H.: *See*—
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H.,3,437,727.
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H.,3,443,008.
Stahl, Andre Robert Raymond: *See*—
Mignot, Noel Henri Marie; and Stahl, Andre Robert Raymond,3,467,841.
Stahl, Clarence Richard; and Siggia, Sidney, to GAF Corporation. Method for inhibiting autopolymerization of N- vinyl lactams. 3,454,558, 7-8-69, Cl. 260-239.3
Stahl, Dieter; Strolenberg, Otto Karel; and Damen, Leonardus W. J., to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Process for the peroxidic curing of a monomer- polymer syrupy solution containing a polymer of methylmethacrylate or a copolymer thereof with up to about 20% of another lower alkylmethacrylate. 3,476,723, 11-4-69, Cl. 260-86.1
Stahl, John F.: *See*—
Nitsch, Edward J.; and Stahl, John F.,3,484,598.
Stahl, Kurt; Langpape, Reinhart; and Rasor, Ned S., to Aktiengesellschaft Brown, Boveri & Cie. Nuclear reactor with thermionic converters. 3,440,455, 4-22-69, Cl. 310-4.
Stahl, William L.: *See*—
Hendrickson, Thomas A.; and Stahl, William L.,3,481,195.

Hendrickson, Thomas A.; Williams, William J.; and Stahl, William L.,3,481,252.
Stahl, Wolfgang, to Sewtronic Development Corporation. Automatic pre-pleating device. 3,473,706, 10-21-69, Cl. 223-31.
Stahl- und Apparatebau Hans Leffer G.m.b.H.: *See*—
Pennther, Hermann, 3,440,967.
Stahl-Armaturen Persta G.m.b.H. K.G.: *See*—
Siepmann, Walter, 3,429,027.
Stahlberger, Bruno, to Naturin-Werk Becker & Co. Sausage casing holder. 3,446,634, 5-27-69, Cl. 99-176.
Stahle, Helmut; Koppe, Herbert; Zeile, Karl; Wolf, Martin; and Hoefke, Wolfgang, to Boehringer Ingelheim G.m.b.H.Derivatives of 2-(2'-halo-anilino) 1,3-diazacyclo-pentene-(2). 3,462,433, 8-19-69, Cl. 260-253.
Stahle, Helmut; Kummer, Werner; Koppe, Herbert; Zeile, Karl; Hoefke, Wolfgang; and Samtleben, Hans-Wolfgang, to Boehringer-Ingelheim G.m.b.H. 2-Arylhydrazine-imidazolines-(2) and salts thereof. 3,480,630, 11-25-69, Cl. 260-254.
Stahle, Helmut; and Zeile, Karl, to Boehringer Ingelheim G.m.b.H. Process for the preparation of 2-phenylamino-1,3- diazacycloalkenes-2. 3,468,887, 9-23-69, Cl. 260-253.
Stahle, Helmut: *See*—
Zeile, Karl; Hauptmann, Karl Heinz; and Stahle, Helmut,3,454,701.
Stahle, Howard L., to General Precision, Inc. Internal address generating system. 3,422,406, 1-14-69, Cl. 340-172.5
Stahle, Howard L., to Singer-General Precision, Inc. Computer Memory testing system. 3,439,343, 4-15-69, Cl. 340-172.5
Stahlecker, Fritz, to Spindelfabrik Sussen, Schurr Stahlecker & Grill G.m.b.H. Spindle assembly for a spinning or twisting machine. 3,451,735, 6-24-69, Cl. 308-150.
Stahlecker, Fritz; and Kemmler, Sigmund, to Spindelfabrik Sussen, Schurr, Stahlecker & Grill G.m.b.H. Locking device for spindles of spinning or twisting machines. 3,447,305, 6-3-69, Cl. 57-132.
Stahler, Alfred F., to Ampex Corporation. Fluid lubricated magnetic tape transducer. 3,435,441, 3-25-69, Cl. 340-174.1
Stahler, Ylo E.; and Stevens, John H., to United States of America, Air Force. Beam splitting dipole array. 3,453,629, 7-1-69, Cl. 343-754.
Stahlheber, Norman Earl: *See*—
Shen, Chung Yu; and Stahlheber, Norman Earl,3,426,440.
Stahlhut, Leo G., to K-S-H, Inc. Lay-in enclosure. 3,473,280, 10-21-69, Cl. 52-475.
Stahlhut, Leo G.: *See*—
Weaver, Joseph F.; and Stahlhut, Leo G.,3,461,466.
Stahlhut, Richard W., to Bell Telephone Laboratories, Incorporated. Detection and utilization of heat and infrared radiation emitted by magnetic elements during magnetic reversal thereof. 3,452,199, 6-24-69, Cl. 250-83.3
Stahlmann, Rudolf: *See*—
Gawlick, Heinz; and Stahlmann, Rudolf,3,476,049.
Gawlick, Heinz; Stahlmann, Rudolf; and Umbach, Hans,3,444,812.
Stahlwerke Sudwestfalen Aktiengesellschaft: *See*—
Treppachuh, Helmut; and Baltes, Emil, 3,438,294.
Stahly, Daniel C.; Schaefer, George H.; and Beck, William P., to Sunbeam Corporation. Rechargeable battery operated appliance. 3,447,058, 5-27-69, Cl. 320-2.
Stahly, Eldon E.: *See*—
Burke, Oliver W., Jr.; Stahly, Eldon E.; and Grace, Oscar M.,3,438,926.
Stahly, Eldon E. Treatment of tobacco smoke to reduce metal carbonyl content thereof. 3,473,535, 10-21-69, Cl. 131-9.
Stahnecker, Erhard: *See*—
Buchholz, Karl; Stahnecker, Erhard; Grohmann, Johannes; and Moeller, Rolf,3,468,820.
Stahnecker, Erhard; and Grohmann, Johannes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Expandable finely divided plastic compositions. 3,428,579, 2-18-69, Cl. 260-2.5
Stahnecker, Erhard; and Grohmann, Johannes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of expanded plastics moldings. 3,461,088, 8-12-69, Cl. 260-2.5
Staib, Paul Henri: *See*—
Krebs, Edouard Charles; and Staib, Paul Henri,3,464,910.
Staines, Alfred J., to Harris-Intertype Corporation. Sheet slowdown mechanism. 3,451,670, 6-24-69, Cl. 271-68.
Stainken, Henry August, to Otis Elevator Company. Control of elevator hoist and door motors. 3,428,878, 2-18-69, Cl. 318-103.
Stainless & Steel Products Co.: *See*—
Rouse, Stewart A.; and Olson, Thomas C., 3,421,646.
Stair, Eugene V. Mower cutting device. 3,482,380, 12-9-69, Cl. 56-295.
Stairs, Henry Marshall, to American Standard Inc. Shower seat. 3,480,973, 12-2-69, Cl. 4-145.
Stakel, Frederick C. Stacked fluted-wall receptacles. 3,460,670, 8-12-69, Cl. 206-65.
Staker, Robert: *See*—
Smythe, Bruce; and Staker, Robert,3,454,425.
Stakmore Co., Inc.: *See*—
Kaufman, Hans J., 3,451,718.
Stal Refrigeration Aktiebolag: *See*—
Axelsson, Rolf Ingemar, 3,451,198.
Lundvik, Karl Vilhelm Bertil, 3,429,502.
Tallving, Bo Germund, 3,470,783.
Stal, Sture; and Backman, Ralf, to Industrial Development AB. Bucket drive. 3,479,932, 11-25-69, Cl. 93-93.
Stal-Laval Turbin AB: *See*—
Hillander, Oscar Hilding; and Jung, Ingvar Karl Einar, 3,454,098.
Hillander, Oscar Hilding, 3,468,587.
Hillander, Oscar Hilding, 3,471,206.
Larsson, Per Erik Arne; and Thornblad, Per Gosta, 3,447,611.
Vind, Tyge Flensburg, 3,429,180.
Stalberg, Nils G., to LKB-Produkter AB. Radiation absorption tester using RC network to simulate absorption function. 3,435,239, 3-25-69, Cl. 250-218.
Stalberg, Nils Gustav; and Berglund, Erling Gotthard. Apparatus for stirring a liquid. 3,432,149, 3-11-69, Cl. 259-75.
Stalberg, Per Erik Ruben, to AB Rosenblads Patenter. Arrangement in heat exchangers of the plate type. 3,444,926, 5-20-69, Cl. 165-166.
Stalcup, Ernest F., to Westinghouse Electric Corporation. Staged vapor-liquid operated ejector arrangement for multi-stage evaporator system. 3,468,761, 9-23-69, Cl. 202-173.
Stalcup, Robert E.: *See*—
Ricketts, Luther W., Jr.; Stalcup, Robert E.; and Erickson, Robert J.,3,449,711.
Stalder, William L.: *See*—
Saunders, William E.; and Stalder, William L.,3,478,000.
Stalego, Charles J., to Owens-Corning Fiberglas Corporation. Method and apparatus for processing heat- softened material. 3,475,147, 10-28-69, Cl. 65-1.
Stalego, Charles J.; and Varrasso, Eugene C., to Owens-Corning Fiberglas Corporation. Apparatus for feeding streams of heat-softened material. 3,468,643, 9-23-69, Cl. 65-1.
Staley, A. E., Manufacturing Company: *See*—
Fast, Byron L.; and Reschetz, Raymond R., 3,456,790.
Mallios, Panayotis D., 3,487,034.
Meador, Ernest E.; and Etheridge, Oliver R., 3,424,353.
Robinson, John W.; Bookwalter, George N.; and Tuschhoff, John V., 3,437,493.
Roth, Claris D.; Short, Robert G.; and Nevin, Charles S., 3,449,318.
Smith, David R.; and Peterson, Howard, 3,424,706.
Sullivan, Charles I.; and McCarthy, Francis L., 3,457,208.
Tonner, Francis I., 3,457,206.
Tuschhoff, John V.; Kessinger, Gene L.; and Hanson, Cleo E., 3,422,088.
Weiland, Edward, 3,423,238.
Staley, Melvin R., to Jif-Chips Snak Foods, Inc. Apparatus for preparing cornmeal collets for food. 3,427,953, 2-18-69, Cl. 99-237.
Stalker, Ian Nicol. Production of cellulosic fiber sheets containing coated titanium dioxide pigments. 3,458,395, 7-29-69, Cl. 162-175.
Stalker, James E., to Home Metal Products Company. Wall mounted wastebasket. 3,420,483, 1-7-69, Cl. 248-95.
Stall, Orville T. Pull cord lock. 3,455,365, 7-15-69, Cl. 160-344.
Stall, Orville T. Combination tissue dispenser and waste receptacle. 3,458,095, 7-29-69, Cl. 224-42.42
Stallard, George Hugh; and Allen, Doreen Elizabeth. Anti-roll axle. 3,448,995, 6-10-69, Cl. 280-124.
Stallard, Wayne R.: *See*—
Prescott, William A.; Wacht, Raymond J.; and Stallard, Wayne R.,3,461,989.
Staller Cabinets, Inc.: *See*—
Staller, Maurice F., 3,427,085.
Staller, Karel J., to Flexigrip, Inc. Sealing fastener. 3,440,696, 4-29-69, Cl. 24-201.
Staller, Maurice F., to Staller Cabinets, Inc. Mobile shelving carriage. 3,427,085, 2-11-69, Cl. 312-200.
Stallman, James E., to Square D Company. Illuminated push-pull switch operator. 3,472,986, 10-14-69, Cl. 200-167.
Stallman, Neal E., to P and S Grain Equipment. Grain scalper. 3,469,688, 9-30-69, Cl. 209-10.
Stalp, Bernard J., to Tektronix, Inc. Apparatus for controlling the voltage on an electron tube element. 3,449,619, 6-10-69, Cl. 315-10.
Stalph, Gunter J., to Combustion Engineering, Inc. Duct support arrangement. 3,430,645, 3-4-69, Cl. 137-356.
Stalter, John D.: *See*—
Pletcher, Donald L.; and Stalter, John D.,3,420,499.
Stalwart Dyeing Co., Ltd.: *See*—
Farrer, William Greenhalgh, 3,472,161.
Stamatis, Sam P., to Wells-Gardner Electronics Corporation. Keyed AGC circuit utilizing composite video signal supplied from detector. 3,432,615, 3-11-69, Cl. 178-7.3
Stambaugh, Donald W.: *See*—
Rose, Ronald E.; and Stambaugh, Donald W.,3,453,518.

Stambera, Adolf, to Hesser, Fr., Maschinenfabrik, A.G. Chain conveyor for pourable goods. 3,452,857, 7-1-69, Cl. 198-152.
Stamford, Stanley; Terry, James Bernard; Gratton, Charles Peter; and May, William Charles, to United Kingdom Atomic Energy Authority. Cooling of nuclear reactors. 3,441,477, 4-29-69, Cl. 176-59.
Stamicarbon N.V.: *See*—
de Rooij, Abraham H., 3,429,920.
de Rooij, Abraham H.; and Elmendorp, Jan, 3,446,583.
Dikotter, Gerardus P.; Schaapveld, Arnoldus A. W.; and Franssen, Pierre J., 3,428,597.
Dingemans, Simon; and Slot, Willem, 3,429,686.
Duyverman, Coenraad J., 3,466,339.
Fontein, Freerk J.; Loonen, Hendrik E.; and Creuels, Frans H., 3,447,327.
Garritsen, Johan W.; and Bigot, Johan A., 3,437,655.
Garritsen, Johan W.; and Bigot, Johan A., 3,481,919.
Geerards, Jozef J. T. M.; and Wijler, Bert H. L. M., 3,449,283.
Heunks, Antonius M. A.; Kars, Franciscus A.; and Hofenk, Gerrit, 3,446,601.
Hovestreydt, Gerrit; Logemann, Johan D.; and Delcour, Kees, 3,455,813.
Jongbloed, Johannes; Gardeniers, Jan G.; Nusser, Hubertus W.; and Peeters, Pierre H., 3,469,323.
Kardaun, Georg; and Smeets, Hubertus H., 3,479,251.
Kateman, Gerrit; von Morgen, Kurt; and Wijenberg, Joannes B. G., 3,421,855.
Ottenheym, Johannes H.; Thoma, Jozef A.; and Gregoire, Johannes H.C.M.A., 3,476,665.
Semeyns de Vries Van Doesburgh, Johan T.; and Verbrugge, Henny, 3,448,103.
Suverkropp, Geertrudes H., 3,431,295.
Thoma, Jozef A.; and Gielkens, Johannes W., 3,446,835.
Thoma, Jozef A.; Gielkens, Johannes W.; and Reichrath, Werner, 3,476,664.
van de Mond, Theodorus J., 3,485,876.
van den Berg, Cornelis E. P. V.; and Fidder, Roelof, 3,472,823.
Van Den Berg, Cornelis E. P. V., 3,476,733.
van Gelder, Abraham, 3,437,011.
Van Koppen, Christianus W. J.; and Thomas, Cornelis, 3,420,443.
Van Saane, Pieter; and Frielink, Johannes M., 3,451,983.
Vermijs, Winfried J. W.; and Von den Hoff, Johan P. H., 3,437,656.
Zijp, Jan W. H.; and Dullens, Wilhelmus J. M. M., 3,426,106.
Stamm, Alex F., to North American Rockwell Corporation. Method of making tapered spring leaf. 3,445,911, 5-27-69, Cl. 29-173.
Stamm, Alex F., to North American Rockwell Corporation, mesne. Automatic control system for friction welding machine. 3,455,494, 7-15-69, Cl. 228-2.
Stamm, Alex F., to Rockwell-Standard Company. Friction welding machine and method. 3,464,616, 9-2-69, Cl. 228-2.
Stamm, Alex F., to Rockwell-Standard Company. Friction welded drive axle shaft having an annular section of flash metal. 3,465,545, 9-9-69, Cl. 64-1.
Stamm, David H. Paint pan bracket. 3,474,996, 10-28-69, Cl. 248-210.
Stamm, Richard R., to Superior Die Set Corporation. Die set leader pin with sectional bearing cage. 3,469,894, 9-30-69, Cl. 308-6.
Stamm, Robert F.: *See*—
Chen, Catherine S. H.; Hosterman, Evalyn F.; and Stamm, Robert F.,3,423,161.
Stamm, Russell D.; and Smart, Sidney K., to General Instrument Corporation. Dual band pushbutton tuner. 3,463,017, 8-26-69, Cl. 74-10.33
Stamm, Walter A.; and Greco, Carl C., to Stauffer Chemical Company. Process for preparing N-monosubstituted carbamic acid esters. 3,477,933, 11-11-69, Cl. 204-162.
Stamm, Walter: *See*—
Eisfeld, Wolfgang T.; and Stamm, Walter,3,480,680.
Stamm, Walter, to Stauffer Chemical Company. Process for producing organic isocyantes. 3,440,268, 4-22-69, Cl. 260-453.
Stamm, Walter, to Stauffer Chemical Company. Stabilized halogen containing polymers. 3,461,091, 8-12-69, Cl. 260-23.
Stamm, Walter; Greco, Carl C.; and Beck, Thomas M., to Stauffer Chemical Company. Process for preparing carboxylic acid thioanhydrides. 3,466,307, 9-9-69, Cl. 260-399.
Stammen, Harold A., to Crown Controls Corporation. Lift truck with telescopic mast. 3,472,341, 10-14-69, Cl. 187-9.
Stampe, Werner, to Bosch, Robert G.m.b.H. Fluid pressure servomotor. 3,420,145, 1-7-69, Cl. 91-376.
Stampfli, Harald, to Lucifer S.A. Electrically controlled valve. 3,458,769, 7-29-69, Cl. 317-123.
Stampfli, Harald. Servovalve. 3,476,353, 11-4-69, Cl. 251-45.
Stamps, Otis C.; and Neikirk, David W., to Inject-O-Meter Manufacturing Company, Inc. Agricultural chemical application process and apparatus therefor. 3,464,626, 9-2-69, Cl. 239-10.
Stan, Henry: *See*—
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid,3,442,512.
Glass, Marvin I.; Stan, Henry; and Kripak, Leonid,3,479,035.
Stan, Henry; Barlow, Gordon A.; and Meyer, Burton C., to Glass, Marvin & Associates. Game apparatus having playing piece ejecting means. 3,464,694, 9-2-69, Cl. 273-1.
Stan, Henry; and Glass, Marvin I., to Glass, Marvin & Associates. Game apparatus for simulating an automobile trip and comprising a coin actuated simulated parking meter. 3,464,702, 9-2-69, Cl. 273-134.
Stan, Mihaita: *See*—
Belousov, Vitalie; Alecsandrescu, Constantin-Jean; Zmau, Gheorghe; and Stan, Mihaita,3,448,545.
Stanaway, Robert E., to Houdaille Industries, Inc. Variable discharge lubricant distributor. 3,422,926, 1-21-69, Cl. 184-7.
Stanback, Harris I., to Square D Company. Electrical panelboard with circuit limiting means. 3,431,469, 3-4-69, Cl. 317-119.
Stanbury, Allan D.: *See*—
Walls, John, 3,472,089.
Stancell, Arnold F.: *See*—
Foglia, Andrew J.; Stancell, Arnold F.; and Mc Gowan, Raymond J.,3,440,238.
Stanchi, Luciano A., to European Atomic Energy Community (Euratom). Electrical discriminator unit. 3,479,526, 11-18-69, Cl. 307-235.
Stanchus, Frank T.: *See*—
Manz, August F.; Saenger, John F., Jr.; Freeman, Norman D.; and Stanchus, Frank T.,3,483,354.
Stancil, Birley, deceased,0 (by Stancil, Pearl, executrix), to I-T-E Circuit Breaker Company. Neutral tubing for panelboards. 3,434,102, 3-18-69, Cl. 339-242.
Stancil, Harry L.; and Stancil, Joseph E. Turn signals for motorcycles and the like. 3,484,743, 12-16-69, Cl. 340-82.
Stancil, Joseph E.: *See*—
Stancil, Harry L.; and Stancil, Joseph E.,3,484,743.
Stancil, Pearl: *See*—
Stancil, Birley,3,434,102.
Stancl, Roland F.: *See*—
Sekmakas, Kazys; and Stancl, Roland F.,3,470,126.
Stancliffe, Floyd S. Building structure. 3,468,087, 9-23-69, Cl. 52-187.
Stanco Packaging Systems Corporation: *See*—
Connelly, Harold W.; and Monaghan, Alfred C., 3,449,886.
Standaart, Adrian W., 12 3/4% to Morris, Donald S. 12 3/4% to Gallaher, John K. 12 3/4% to Cannon, Howard E., and 12 3/4% to Phillips, J. B. Automatic blood sedimentation rate recorder. 3,474,458, 10-21-69, Cl. 346-107.
Standard Alliance Industries, Inc.: *See*—
Czarnecki, Adolph; Jones, Kenneth L.; and Michaels, Michael, 3,435,780.
Standard Brands Chemical Industries, Inc.: *See*—
Brown, Robert R.; and Schmidt, George F., 3,422,050.
Rasicci, Vincent M., 3,432,455.
Witt, Edward, 3,480,578.
Standard Brands Incorporated: *See*—
Campbell, Alfred D., 3,467,543.
Lanphere, Robert E., 3,425,868.
Pomper, Seymour; and Akerman, Emanuel, 3,440,058.
Pomper, Seymour; and Akerman, Emanuel, 3,440,059.
Pomper, Seymour; and Akerman, Emanuel, 3,448,010.
Rikert, John A.; Carlin, Owen B.; and Lucas, Michael J., 3,461,822.
Speakman, Edwin L., 3,425,909.
Speakman, Edwin L., 3,468,706.
Vospalek, Bojan; and Bornberg, John D., 3,462,279.
Standard Car Truck Company: *See*—
Barber, Franklin D., 3,469,537.
Standard Chemical Products, Inc.: *See*—
Clark, John E.; and Bungener, Jakobus A., 3,454,494.
Standard Elecktrik Lorenz AG: *See*—
Wittenbecher, Rudolf, 3,458,914.
Standard Engineering Company, The: *See*—
Rogers, John Harlan, 3,477,214.
Standard Filterbau-Ges. m.b.H.: *See*—
Sauermann, Werner, 3,478,498.
Standard Gage Company, Inc.: *See*—
Aldeborgh, David H., 3,439,543.
Hamel, Conrad L.; Murphy, James P.; and Klink, John, 3,482,323.
Klink, John, 3,477,675.
Standard International Corporation: *See*—
Chaney, Willard O., 3,486,224.
Olson, Raymond G.; and Benno, Edward L., 3,468,464.
Standard Kollsman Industries, Inc.: *See*—
Atkinson, Howard, 3,473,392.
Standard Machine & Manufacturing Company: *See*—
McDougall, Franklin M., 3,430,865.
Standard Manufacturing Company, Inc.: *See*—
Oswald, William N., 3,430,586.
Standard Mirror Company, Inc.: *See*—
Meade, Lynn C., 3,439,977.
Standard Oil Company (Indiana): *See*—
Amick, James W., 3,447,918.
Arnold, Vernon W.; and Lee, Robert J., 3,429,843.

Baldwin, Richard H.; and Fragen, Nathan, 3,472,630.
Bertolacini, Ralph J., 3,451,942.
Cropper, Wendell P., 3,459,947.
Culbertson, George S.; Sabol, Albert R.; and Karll, Robert E., 3,456,027.
Den Herder, Marvin J.; and Borg, Arthur C., 3,455,896.
Fields, Ellis K., 3,442,939.
Fields, Ellis K., 3,454,641.
Ginsburgh, Irwin; and Pennington, Benjamin D., 3,472,285.
Harrier, Jack L.; and Spaulding, Lawrence D., 3,451,956.
Harris, Samuel W.; Morello, Edwin F.; and Peters, Gavin H., 3,459,494.
Henderson, Lionel A., 3,420,874.
Jackson, James Augustus, 3,485,867.
Jander, Kent, 3,445,399.
Juveland, Omar O., 3,456,023.
Juveland, Omar O., 3,472,815.
Juveland, Omar O.; and Weisz, Robert G., 3,474,159.
Kapff, Sixt Frederick, 3,447,359.
Kapff, Sixt Frederick; and Cropper, Wendell P., 3,453,891.
Kus, Stanley T.; and Koenig, Fred W., 3,479,305.
Lee, Richard J., 3,449,362.
Lee, Richard J., 3,449,437.
Leisey, Frank A., 3,462,244.
Martin, Ronald L.; and Flannery, Robert J., 3,461,042.
Medhurst, Ralph C., 3,435,103.
Mehalso, Paul J., 3,445,504.
Meyer, Delbert H., 3,420,879.
Mullen, George Clarence, Jr., 3,459,499.
Muller, Herman L.; and Li, Tao Ping, 3,427,254.
O'Grady, Thomas M.; Alm, Robert M.; and Hoff, Melvern C., 3,437,698.
Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H., 3,452,088.
Olsen, George P., 3,456,001.
Ostrofsky, Bernard; and Berman, Jack N., 3,435,776.
Otto, Bruce M., 3,447,915.
Peri, John B., 3,434,912.
Peters, Edwin F.; and Juveland, Omar O., 3,475,399.
Petkus, John J., 3,450,548.
Proell, Wayne A., 3,460,348.
Puskas, Imre; and Fields, Ellis K., 3,446,864.
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A., 3,440,293.
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A., 3,455,664.
Ruscilli, Albert E., 3,451,943.
Schuessler, Frederick W., 3,445,388.
Stein, Norman; Meyer, Delbert H.; Knobloch, James O.; and Liao, Hsiang Peng, 3,484,458.
Stephens, James R., 3,451,848.
Strong, Erwin R., Jr.; Johnston, Walker F., Jr.; and Goodman, Robert C., 3,449,243.
Toy, Leonard E.; and Weisz, Robert G., 3,487,038.
Traise, Thornton P.; Little, Randel Q.; and Watson, Roger W., 3,442,808.
Traise, Thornton P.; and Piasek, Edmund J., 3,448,047.
Upson, Frank A., 3,480,404.
Waters, Robert F., 3,429,750.
Waters, Robert F.; and Cook, Hurley D., 3,468,717.
Wissenberg, Herman, 3,477,861.
Wright, Lawrence T.; and Ginsburgh, Irwin, 3,453,538.

Standard Oil Company, The (Ohio): *See*—
Adams, Harry A., 3,428,493.
Butler, Arthur W.; Purdy, Francis W.; and Meyer, Charles J., 3,462,087.
Buzzelli, Edward S., 3,445,288.
Buzzelli, Edward S., 3,484,296.
Callahan, James L.; Milberger, Ernest C.; and Grasselli, Robert K., 3,427,343.
Callahan, James L.; and Gertisser, Berthold, 3,428,674.
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R., 3,431,292.
Callahan, James L.; and Cross, Gordan G., 3,444,234.
Callahan, James L., 3,445,520.
Callahan, James L.; Grasselli, Robert K.; and Knipple, Warren R., 3,445,521.
Callahan, James L., 3,461,150.
Callahan, James L., 3,468,958.
Callahan, James L.; and Milberger, Ernest C., 3,472,892.
Dechert, Douglas M., 3,424,622.
Grasselli, Robert K.; and Callahan, James L., 3,435,061.
Grasselli, Robert K., 3,452,032.
Greene, Janice L., 3,450,758.
Greene, Janice L.; Idol, James D., Jr.; and Standish, Norman W., 3,454,618.
Griffith, Russell K., 3,462,355.
Griffith, Russell K.; and Zorska, Roman, 3,481,970.
Hougland, John W.; and Wisniewski, John C., 3,420,751.
Isley, Ralph E.; and Adams, Richard C., 3,437,628.
Isley, Ralph E.; Adams, Richard C.; and Ball, Lawrence E., 3,437,717.
Isley, Ralph E.; and Adams, Richard C., 3,453,173.
Isley Ralph E.; and Blower, Kenneth E., 3,458,617.
Isley, Ralph E.; and Adams, Richard C., 3,476,643.
Jordan, Jackie B.; and White, Thomas R., 3,442,771.
Miller, Arthur F.; and Salehar, Milena L., 3,468,624.
Rafos, Robert R.; and Farrington, Diane G., 3,471,490.
Rafos, Robert R., 3,476,603.
Rightmire, Robert A., 3,447,968.
Rightmire, Robert A.; and Buzzelli, Edward S., 3,462,312.
Rightmire, Robert A.; and Buzzelli, Edward S., 3,462,313.
Selover, Theodore B., Jr.; and Benak, James L., 3,472,701.
Solak, Thomas A.; and Duke, June T., 3,426,102.
Sprague, James W.; and Buzzelli, Edward S., 3,485,674.
Standish, Norman W.; and Nixon, William C., Jr., 3,434,983.

Standard Oil Company(Indiana): *See*—
Adelfang, Jules L., 3,475,460.
Walker, Donald C., 3,456,882.

Standard Packaging Corporation: *See*—
Roome, Douglas P., 3,478,391.
Spiegel, Francis X.; and Monia, Victor, 3,454,210.

Standard Plastic Products, Inc.: *See*—
Bender, Louis, 3,439,634.
Bender, Louis, 3,477,716.

Standard Pneumatic Motor Company: *See*—
Coss, Ronald G., 3,430,710.
Coss, Ronald G., 3,443,448.

Standard Pressed Steel Co.: *See*—
Anderson, Allan G., 3,449,004.
Cohen, George R., 3,440,922.
Cooper, Charles W.; and Epstein, Michael, 3,437,541.
Dahl, Warren F., 3,469,492.
Dey, Ervin J., 3,437,119.
Dey, Ervin J., 3,443,616.
Dey, Ervin J., 3,446,261.
Dey, Ervin J., 3,451,456.
Gowen, Edward F., Jr.; Ollis, Raymond, Jr.; and Walker, Richard A., 3,433,117.
Hardiman, Russell J., 3,440,869.
Jamison, Warner A.; and Pilcher, Robert M., 3,442,249.
Levy, Ralph M., 3,425,311.
Ollis, Raymond, Jr., 3,456,706.
Ollis, Raymond, Jr.; and Whiteside, Roger B., 3,467,417.
Schreyer, Kenneth D., 3,425,761.
Schreyer, Kenneth D.; and Meehl, David W., 3,432,147.
Schreyer, Kenneth D.; and Clark, Leonard R., 3,473,187.
Suan, Robin K., 3,468,211.
Villo, Joseph P., 3,425,313.
Whiteside, Roger B.; and Kulju, Kenneth M., 3,443,617.
Zetterlund, Rune A. E.; and Waeltz, Ronald, 3,458,896.

Standard Products Company, The: *See*—
Paulus, Peter V., 3,445,965.

Standard Products Corporation: *See*—
Weber, William H., 3,452,854.

Standard Railway Fusee Corp.: *See*—
Bartlett, George F.; and Snaidman, Samuel, 3,445,204.

Standard Research Institute: *See*—
Shoulders, Kenneth R.; and Heynick, Louis N., 3,453,478.

Standard Screw Company: *See*—
Barnes, William I., 3,430,613.
Bell, Frank W., 3,428,088.
Bouwkamp, Gerald R.; and Lesher, Kenneth W., 3,437,082.
Bouwkamp, Gerald R., 3,439,659.
Buisman, William J., 3,474,008.
Corlett, Webster D., 3,420,272.
Ellison, Joseph E., 3,430,377.
Ellison, Joseph E., 3,473,562.
Lesher, Kenneth W., 3,439,660.
Mongerson, Paul A.; and Ellison, Joseph E., 3,443,266.
Mongerson, Paul A., 3,456,677.
Mongerson, Paul A., 3,473,558.

Standard Steel Corporation: *See*—
Heacock, Roy C.; and Dyer, Wesley B., 3,481,049.

Standard Telephones & Cables Limited: *See*—
Allen, Cyril Joseph; Bliss, John Llewelyn; and Millar, Ian David Balfour, 3,443,024.
Davies, Robin Evan; and Howorth, Douglas, 3,457,369.
Geddes, William Keith Elliott; and Rout, Eric Raymond, 3,428,762.
Monteath, George Dewar, 3,444,318.
Rout, Eric Raymond, 3,466,387.

Standard-Messo Duisburg Gesellschaft fur Chemie- Technik mbH & Co.: *See*—
Coupette, Werner, 3,479,022.

Standard-Triumph Motor Company Limited, The: *See*—
Michelotti, Giovanni, 3,445,644.

Standefer, John E.: *See*—
Johnson, Jim H.; Rainwater, Walter J.; and Standefer, John E.,3,473,096.

Standeven, Joseph David; and Stauffer, Thomas A., to Philco-Ford Corporation. High speed antisaturating transistorized inverter. 3,461,314, 8-12-69, Cl. 307-235.
Standish, Norman W.: *See*—
Greene, Janice L.; Idol, James D., Jr.; and Standish, Norman W.,3,454,618.
Standish, Norman W.; and Nixon, William C., Jr., to Standard Oil Company, The (Ohio). Stain-resistant composition comprising 2,2'- (1,2-cyclobutylene) bis 4,6-diamine-S-triazine melamin-aldehyde reaction product and a filler. 3,434,983, 3-25-69, Cl. 260-17.3
Standley, Robert D., to Bell Telephone Laboratories, Incorporated. Two-pole channel-dropping filter. 3,441,878, 4-29-69, Cl. 333-6.
Standley, Wendell E.; and Wittmann, Richard B., to Johns-Nigrelli-Johns, Inc. Method and apparatus for loading cases. 3,466,834, 9-16-69, Cl. 53-26.
Standley, Wendell E.: *See*—
Nigrelli, Biagio J.; Standley, Wendell E.; and Sprogis, Andre,3,454,149.
Nigrelli, Biagio J.; Standley, Wendell E.; and Wittmann, Richard B.,3,473,295.
Stanfill, Daniel F., III: *See*—
Kallet, Eli A.; and Stanfill, Daniel F., III,3,422,267.
Stanford, Arthur, to American Machine & Foundry Company. Electrically heated dish-dispensing apparatus. 3,436,525, 4-1-69, Cl. 219-385.
Stanford, George H. Dripboard and integral facia board and gutter combinations. 3,426,488, 2-11-69, Cl. 52-15.
Stanford, James R., to Nalco Chemical Company. Corrosion inhibition. 3,424,681, 1-28-69, Cl. 252-8.55
Stanford, James R.; and Vogelsang, Paul G., Jr., to Nalco Chemical Company. Hydroxyamine phosphate ester scale inhibitors. 3,477,956, 11-11-69, Cl. 252-8.55
Stanford Research Institute: *See*—
Goldberg, Jacob, 3,446,990.
Hansen, Wilbur W.; and Myers, Robert E., 3,434,863.
Heckler, Clarence H.; and Baer, James A., 3,435,431.
Heckler, Clarence H.; and Baer, James A., 3,466,458.
Hill, Marion E., 3,426,078.
Macovski, Albert, 3,434,157.
Macovski, Albert, 3,462,547.
Macovski, Albert, 3,471,861.
Morrison, Stanley R.; Sancier, Kenneth M.; and Freund, Thomas, 3,433,964.
Noon, Alonzo W., 3,461,843.
Peschl, John; and Larson, Robert E., 3,435,194.
Rice, Philip J., 3,466,657.
Robbins, Robert C., 3,420,636.
Rosen, Charles A., 3,458,693.
Rosen, Charles A., 3,470,369.
Shoulders, Kenneth R., 3,430,213.
Shoulders, Kenneth R., 3,458,745.
Softky, Sheldon D., 3,435,211.
Softky, Sheldon D.; Taimuty, Samuel I.; and Rubin, Sylvan, 3,475,610.
Wahlstrom, Sven Erik, 3,473,160.
Stanford, Robert C.: *See*—
Orwin, Robert J.; and Stanford, Robert C.,3,460,041.
Stang, Charles, Jr.; and McMann, Wilbur S., to Maxitrol Company. Gas flow control system. 3,486,693, 12-30-69, Cl. 236-9.
Stang Cofor Inc.: *See*—
Novet, Gabriel, 3,466,769.
Stanga, Dennis C., to Sperry Rand Corporation. Continuous data recording apparatus. 3,439,344, 4-15-69, Cl. 340-172.5
Stanga, Joseph. Method and apparatus for cheese molding and forming. 3,421,220, 1-14-69, Cl. 31-46.
Stange, Hugo: *See*—
Weil, Theodor; and Stange, Hugo,3,424,843.
Weil, Theodor; and Stange, Hugo,3,469,005.
Weil, Theodor; and Stange, Hugo,3,471,616.
Stange, Klaus K.; Lux, Adalbert A.; and Michaels, Thomas B., to Xerox Corporation. Sheet feeder and separator apparatus. 3,469,834, 9-30-69, Cl. 271-10.
Stange, Werner: *See*—
Jaaksoo, Lembit; and Stange, Werner,3,470,525.
Stange, Wilfred H. Vehicle mounted soil sampling device. 3,464,504, 9-2-69, Cl. 173-28.
Stangel, John J.: *See*—
Perini, Harry R.; Stangel, John J.; Timms, Robert J.; and D'Agostino, Jack V.,3,453,636.
Stanger, Hans: *See*—
Boettger, Guenter; Guenthert, Paul; Kindler, Hubert; and Stanger, Hans,3,449,414.
Stanger, Leo: *See*—
Sternau, Martin M., 3,484,034.
Stangl, Anton. Device for making a controlled descent. 3,420,503, 1-7-69, Cl. 254-154.
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz, to Bolkow Gesellschaft mit beschrankter Haftung. Aiming and tracking device for guided jet- propelled missiles. 3,466,968, 9-16-69, Cl. 89-1.815
Stangl, Arnold; Herberhold, Dieter; and Pfister, Franz, to Messerschmitt-Bolkow Gesellschaft mit beschrankter Haftung. Guided missile aiming and tracking device in form of self-contained unit. 3,466,969, 9-16-69, Cl. 89-1.815
Stangl, Ernst: *See*—
Scheffler, Friedrich; Stangl, Ernst; and Gehrmann, Friedrich Karl,3,449,539.
Seulen, Gerhard; Geisel, Herbert; and Stangl, Ernst,3,446,930.
Stanhope, Lawrence E. Greenhouse. 3,461,605, 8-19-69, Cl. 47-17.
Staniak, Waldemar A.: *See*—
Bailey, John M.; Glassey, Stephen F.; and Staniak, Waldemar A.,3,451,405.
Stanier, Harold Meredith: *See*—
Howarth, John Joseph; and Stanier, Harold Meredith,3,459,951.
Staniforth, Eric: *See*—
Hargreaves, Derek B.; Staniforth, Eric; and Goostrey, Roy,3,447,391.
Hargreaves, Derek Burtt; and Staniforth, Eric,3,448,899.
Stanimirovitch, Douchan, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Negative zinc electrodes for secondary cells. 3,451,851, 6-24-69, Cl. 136-30.
Stanin, Theodore E.; Seaton, William H.; and Hale, Chapman M., Jr., to Eastman Kodak Company. Alicyclic glycols. 3,436,428, 4-1-69, Cl. 260-617.
Stanish, Robert B., to Vibrionics Research Co. Electromechanical transducer. 3,422,311, 1-14-69, Cl. 315-357.
Stankavich, Anthony J.; and Geckle, Thomas E., to Carrier Corporation. Electrode with conductive reticulate element and fuel cell therewith. 3,428,492, 2-18-69, Cl. 136-86.
Stankavich, Anthony J.; and Geckle, Thomas E., to Carrier Corporation. Fuel cells with means to exhaust gas from electrode edge. 3,429,748, 2-25-69, Cl. 136-86.
Stanke, Walter, to Koppers Company, Inc., mesne. Apparatus for cleaning the sealing surfaces of coke oven doors. 3,448,475, 6-10-69, Cl. 15-93.
Stanke, Walter; and Mertens, Gottfried, to Koppers Company, Inc., mesne. Apparatus for cleaning the sealing surfaces of coke oven doors and door jambs. 3,464,074, 9-2-69, Cl. 15-93.
Stankey, Michael A.: *See*—
Bollinger, John G.; Stankey, Michael A.; and Harrison, Howard L.,3,452,180.
Stanley Aviation Corporation: *See*—
Rivedal, John C.; and Valentine, Gordon A., 3,442,473.
Stanley, Robert M., 3,424,409.
Stanley, Robert M., 3,433,440.
Stanley, Robert M., 3,436,037.
Stanley, Harvey N., to Susquehanna Corporation, The. Data quality control system. 3,452,155, 6-24-69, Cl. 178-69.
Stanley, Henry, to National Starch and Chemical Corporation. Latent curing agents for thermosetting polymers. 3,425,964, 2-4-69, Cl. 260-2.5
Stanley, Howard E. Faceting apparatus. 3,435,569, 4-1-69, Cl. 51-229.
Stanley, James P.: *See*—
Slavin, John J.; and Stanley, James P.,3,443,750.
Stanley, Joan Ann: *See*—
Adcock, Edmund Philip; and Stanley, Joan Ann,3,460,310.
Stanley, John H.; and Grossett, Duane R., to Parker-Hannifin Corporation. Hand held tube bender. 3,448,602, 6-10-69, Cl. 72-217.
Stanley, Leonard A., to Kendall Company, The. Stabilized directionally stiff woven fabric and method of forming the same. 3,473,885, 10-21-69, Cl. 8-120.
Stanley, Lester N.: *See*—
Huey, William G.; Armento, William H.; and Stanley, Lester N.,3,437,418.
Stanley, Lester N.; and Armento, William H., to General Aniline & Film Corporation. Azo dyestuffs, mixtures of azo dyestuffs and process for dyeing therewith. 3,458,272, 7-29-69, Cl. 8-26.
Stanley, Lorne R.: *See*—
Graham, Arthur; and Stanley, Lorne R.,3,481,455.
Stanley, Paul H., to Autogiro Company of America. Cambered blade for aircraft sustaining rotor. 3,433,306, 3-18-69, Cl. 170-159.
Stanley, Robert C., to White Consolidated Industries, Inc. Liquid level gage. 3,435,681, 4-1-69, Cl. 73-327.
Stanley, Robert Kenneth, to Techniservice Corporation. Strand treatment. 3,435,497, 4-1-69, Cl. 28-72.
Stanley, Robert Kenneth, to Techniservice Corporation. Process and apparatus for strand treatment. 3,440,699, 4-29-69, Cl. 28-1.
Stanley, Robert K.: *See*—
Irwin, Malcolm F.; Musselman, Carl T.; and Stanley, Robert K.,3,440,701.
Stanley, Robert K., to Techniservice Corporation. Strand treatment. 3,435,608, 4-1-69, Cl. 57-157.
Stanley, Robert K., to Techniservice Corporation. Strand treatment. 3,462,814, 8-26-69, Cl. 28-72.
Stanley, Robert K., to Techniservice Corporation. Strand treatment. 3,462,815, 8-26-69, Cl. 28-72.
Stanley, Robert K.; and Robinette, Hillary, Jr., to Techniservice Corporation. Process of stuffer-crimping lubricated synthetic fibers. 3,432,898, 3-18-69, Cl. 28-72.

Stanley, Robert M., to Stanley Aviation Corporation. Occupant escape apparatus for an aircraft or the like. 3,424,409, 1-28-69, Cl. 244-122.
Stanley, Robert M., to Stanley Aviation Corporation. Erector and positioning devices for air crew escape system rocket. 3,433,440, 3-18-69, Cl. 244-137.
Stanley, Robert M., to Stanley Aviation Corporation. Apparatus for deploying and opening parachutes. 3,436,037, 4-1-69, Cl. 244-122.
Stanley, Robert W., to Zimmerman, D. W., Mfg., Inc. Apparatus for handling loads. 3,423,119, 1-21-69, Cl. 294-65.
Stanley, Victor, Inc.: *See—*
Skalka, Stanley, 3,484,145.
Stanley, Victor William: *See—*
Cook, Alan Hugh; Rowley, William Richard Charlton; Stanley, Victor William; Wilson, David Charles; and Hitchens, Robert George,3,486,824.
Stanley, Wallace A., to Reflex Corporation of Canada Limited. Retro-reflective reflectors. 3,458,245, 7-29-69, Cl. 350-67.
Stanley, William C.; Harris, William G., Jr.; and McLeroy, Edward G., Jr., to United States of America, Navy. Sea bottom classifier. 3,478,308, 11-11-69, Cl. 340-3.
Stanley Works G.m.b.H.: *See—*
Wiesmann, Herbert-Ludwig, 3,472,549.
Stanley Works, The: *See—*
Brown, Martin M.; Kuchta, Frank J.; and West, Robert F., 3,438,595.
Burrows, Milford D.; and Quedens, Phillipp J., 3,447,577.
Davis, William R.; and Macchi, Anselmo J., 3,430,912.
Don, Jules M., 3,442,024.
Everett, George, 3,432,033.
Ferguson, Harold W., 3,479,924.
Forbes, William N., 3,470,652.
Gerhardt, Herbrt W.; and Lynch, Conrad L., 3,445,412.
Johnson, Kenneth M., 3,429,452.
Johnson, Kenneth M.; and Nelson, Albert C., 3,482,618.
Kalog, Francis J., 3,470,653.
Lennon, Edmund J., 3,457,600.
Miller, Robert A., 3,473,266.
Moser, Lester W.; and Romanelli, Aldo, 3,443,625.
Multer, Howard C., 3,448,543.
Multer, Howard C., 3,469,349.
Rutty, Edward C., 3,447,447.
Steiner, William A.; and Parsons, John S., 3,451,124.
Whitehouse, Hugh L., 3,458,210.
Stannard, Leslie Charles, to Marconi Company Limited, The. Transitional coupling waveguides. 3,439,415, 4-22-69, Cl. 29-600.
Stanner, Donald: *See—*
Brown, Norman R.; Martin, Michael J., Jr.; and Stanner, Donald,3,478,405.
Stanners, Leonard N.: *See—*
Sepall, Ola; Stanners, Leonard N.; and Tremblay, Bruno,3,483,078.
Stanonis, David J.; King, Walter D.; and Esposito, Charles R., to United States of America, Agriculture. Laboratory apparatus for the chemical modification of packaged yarns. 3,475,823, 11-4-69, Cl. 33-125.
Stanray Corporation: *See—*
Allen, John W.; and Williams, Lucien C., 3,421,453.
Allen, John W., 3,455,135.
Allen, John W.; and Hachler, Wesley R., 3,459,026.
Allen, John W., 3,465,566.
Burns, Walter R., 3,479,677.
Hess, Gildard H., 3,471,046.
Portz, William H., 3,420,025.
Sanders, Wes E.; and Allen, John W., 3,461,818.
Van Patten, Charles Douglas, 3,450,085.
Stansberry, Robert F., to Taylor Garage Doors a division of Garland Manufacturing Company. Automatic door lock actuator. 3,436,862, 4-8-69, Cl. 49-358.
Stansbury, Benjamin H., Jr. Hinge. 3,482,368, 12-9-69, Cl. 52-469.
Stansbury, Burton J. Steam generator and steam iron combination. 3,436,852, 4-8-69, Cl. 38-77.
Stansbury, Roy E.: *See—*
Mailen, Tyson H.; and Stansbury, Roy E.,3,448,586.
Stansbury, Thomas A. Navigational aid. 3,469,079, 9-23-69, Cl. 235-150.23
Stansell, Alpheus F.; and Billawala, Shahbuddin A., to Burroughs Corporation. Rotatable shaft sealing arrangement. 3,447,847, 6-3-69, Cl. 308-187.1
Stansfield, Martin: *See—*
Kirk, David Neville; Petrow, Vladimir; Stansfield, Martin; and Williamson, David Morton,3,452,006.
Stantchev, Ivan Tenev: *See—*
Bakardjiev, Stefan T.; Stantchev, Ivan Tenev; and Antonov, Dubomir Iordanov,3,422,754.
Stanton, Benjamin D., to Shell Oil Company. Frequency multiplying or dividing circuit. 3,448,382, 6-3-69, Cl. 324-78.
Stanton, Benjiman D., to Shell Oil Company. Flow control for adding small quantities of material to flowing stream. 3,452,774, 7-1-69, Cl. 137-101.19
Stanton, Benjiman D., to Shell Oil Company. System for cascading control functions. 3,484,590, 12-16-69, Cl. 235-151.12
Stanton, Benjiman D., to Shell Oil Company. Ratio controller. 3,486,013, 12-23-69, Cl. 235-151.12
Stanton, Frank, to Cragstan Industries, Inc. Wheeled vehicle with a vibratory hammer. 3,433,110, 3-18-69, Cl. 84-102.
Stanton, Garth M., to Chevron Research Company. Hydrocarbon substituted polycyanotetrahydrofuran lubricating oil detergents. 3,442,809, 5-6-69, Cl. 252-51.5
Stanton, Garth M., to Chevron Research Company. Chlorosilyl substiuted polymers as waterproofing agents. 3,445,278, 5-20-69, Cl. 117-141.
Stanton, Horace D.: *See—*
Falterman, Charles W.; and Stanton, Horace D.,3,440,115.
Stanton, Howard, Jr., to Sylvania Electric Products, Inc. Core winding arbor and method. 3,465,433, 9-9-69, Cl. 29-605.
Stanton, Leo F.; Ripley, Donald E.; and Mattern, Frank C., Jr., to United Shoe Machinery Corporation. Heel finishing machines. 3,441,966, 5-6-69, Cl. 12-87.
Stanton, Martin Gray, to National Research Development Corporation. Homogenisers. 3,436,030, 4-1-69, Cl. 241-199.
Stanton, Robert E. Method for producing hypochlorite solutions and introducing same into confined bodies of water. 3,433,723, 3-18-69, Cl. 204-149.
Stanway, David Neil: *See—*
Ellis, Bernard; Petrow, Vladimir; and Stanway, David Neil,3,478,069.
Stanway, Edward, to Leemetals Limited. Winch dyeing machine having a variable contoured winch drum. 3,434,642, 3-25-69, Cl. 226-191.
Stanwick Corporation, The: *See—*
Lovell, Jack, 3,463,114.
Stanwood, Robert H.: *See—*
Cranch, Edward J.; and Stanwood, Robert H.,3,449,651.
Stanworth, Stephen. Power operated tools. 3,429,227, 2-25-69, Cl. 91-38.
Stanzel, Victor. Remotely controlled propulsion and maneuvering mechanism for model vehicles. 3,473,258, 10-21-69, Cl. 46-210.
Stanzione, John A.: *See—*
Froning, H Robert; and Stanzione, John A.,3,438,439.
Pryor, John A.; Frazier, Chester J., Jr.; Smith, Lawrence L.; and Stanzione, John A.,3,438,442.
Stapel, Heinz: *See—*
Groos, Horst Hans; Niggemeier, Friedrich; and Stapel, Heinz,3,475,941.
Stapf, Virgil Melvin; and Babunovic, Momir, to Barry-Wehmiller Company. Light transparent container inspecting apparatus. 3,456,788, 7-22-69, Cl. 209-111.7
Stapf, William E., to American Machine & Foundry Company. Bulb holder for indicator illumination. 3,460,087, 8-5-69, Cl. 339-17.
Stapfer, Christian, to Hercules Incorporated. Tetraphenolic esters. 3,450,746, 6-17-69, Cl. 260-473.
Staples, Basil G.: *See—*
Warren, George; and Staples, Basil G.,3,440,707.
Staples, Charles F. Molding machine for making compacted abrasive articles. 3,474,493, 10-28-69, Cl. 18-5.
Staples, Ernest L., Jr., to Recognition Equipment Incorporated. Vacuum operated document feeder system. 3,421,753, 1-14-69, Cl. 271-26.
Staples, John P., to United States of America, Navy. Transmitter overload protection circuit. 3,449,635, 6-10-69, Cl. 317-31.
Staples, Joseph A., III, to Schlumberger Technology Corporation. Nuclear magnetometer with measurement sequencing system. 3,469,181, 9-23-69, Cl. 324-0.5
Staples, Lynn A.; and Urquhirt, Alexander J., to Singer-General Precision, Inc. Sound generator. 3,483,634, 12-16-69, Cl. 35-12.
Staples, Lynn Allen, to Singer-General Precision, Inc. Flight simulator control loading system. 3,463,866, 8-26-69, Cl. 35-10.2
Stapleton, David C., to Plessey Company Limited, The. Cylindrical magnetic film storage apparatus. 3,470,544, 9-30-69, Cl. 340-174.
Stapleton, Edward J. Receptacle cover. 3,465,872, 9-9-69, Cl. 206-15.1
Stapleton, Fred E.; and Buescher, James E., to Mandrel Industries, Inc. Hydrophone cable. 3,434,104, 3-18-69, Cl. 340-7.
Stapleton, John R. Catalyzed room temperature curing shelf stable sealant compositions. 3,479,246, 11-18-69, Cl. 161-218.
Stapleton, Samuel E.: *See—*
Goland, David V.; and Stapleton, Samuel E.,3,450,028.
Stapleton, Thomas T., to General Motors Corporation. Digitizer system. 3,449,742, 6-10-69, Cl. 340-347.
Stapling Machines Co.: *See—*
Ellner, Edwin, 3,435,251.
Lombardo, Michael E., 3,443,010.
McCrea, Joseph, 3,460,737.
Varga, Le Roy M., 3,429,652.
Stapp, Hans: *See—*
Werner, Helmut; and Stapp, Hans,3,478,143.

Stapp, Paul R., to Phillips Petroleum Company. Ethylene polymerization using catalyst comprising a mixture of rare earth compounds. 3,429,864, 2-25-69, Cl. 260-94.9

Stapp, Paul R.; and Crain, Donald L., to Phillips Petroleum Company. Production of 3-methyl-1-butene. 3,457,320, 7-22-69, Cl. 260-683.

Stapper, Charles H., Jr., to International Business Machines Corporation. Transducer utilizing electro-optic effect. 3,465,322, 9-2-69, Cl. 340-174.1

Stapper, Charles H., Jr.: *See—*
Kump, Herbert J.; and Stapper, Charles H., Jr.,3,475,737.

Stapper, Charles H., to International Business Machines Corporation. Magnetic multihead assembly with shielding means. 3,432,839, 3-11-69, Cl. 340-174.1

Stapper, William R.: *See—*
Bowen, Charles W., Jr.; and Stapper, William R.,3,474,819.

Staprans, Armand: *See—*
Shively, James F.; and Staprans, Armand,3,454,817.

Star Cutter Company: *See—*
Johnston, Glenn E.; and Windsor, Meredith M., 3,441,705.

Star Expansion Industries Corporation: *See—*
Bell, Walter, 3,423,001.
Bell, Walter, 3,451,248.
Mulno, Lester F., 3,468,465.

Star, Joseph, to Lundy Electronics & Systems, Inc. Erecting machanism. 3,427,769, 2-18-69, Cl. 52-113.

Star Machine & Tool Co.: *See—*
Van Someren, Harris; and Wisti, Morris D., 3,483,775.

Star Paper Tube, Inc.: *See—*
O'Berry, Richard V.; and Shuler, William R., 3,471,350.

Star-Kist Foods, Inc.: *See—*
Birnbaum, Hermann, 3,443,965.

Starai, Rudolph: *See—*
Kowal, Leonard; and Starai, Rudolph,3,484,548.

Starbuck, Elbert C., to Beertronic Corporation. Pressure sensitive switch. 3,423,551,.1-21-69, Cl. 200-83.

Starcher, Paul S.: *See—*
Brotherton, Thomas K.; Knopf, Robert J.; Starcher, Paul S.; and Noffsinger, Charles A.,3,470,248.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr.,3,428,612.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr.,3,472,796.

Starck, Brent R.: *See—*
Starck, Brent; Johnson, Melvin E.; and Starck, Brent R.,3,426,636.

Starck, Brent; Johnson, Melvin E.; and Starck, Brent R., to Starck, P. A., Piano Company. Portable piano assembly. 3,426,636, 2-11-69, Cl. 84-176.

Starck, Hermann C.: *See—*
Neuenschwander, Ernst, 3,480,426.
Weber, Theodor, 3,428,543.

Starck, Marsh E. Training device for golfers. 3,437,339, 4-8-69, Cl. 273-183.

Starck, P. A., Piano Company: *See—*
Starck, Brent; Johnson, Melvin E.; and Starck, Brent R., 3,426,636.

Starer, Ira; and Cornell, Henry William, to American Cyanamid Company. Phosphite activators for sulfur vulcanization of polyurethanes. 3,459,689, 8-5-69, Cl. 260-22.

Starer, Ira; and Lindaw, Arthur Clarence, to American Cyanamid Company. Curing system for halogen containing acrylic elastomers. 3,435,010, 3-25-69, Cl. 260-79.5

Starer, Robert; and Skurla, John P., to Physitech, Incorporated. Waveform reproduction. 3,447,022, 5-27-69, Cl. 315-10.

Starger, Samuel L., to RCA Corporation. Encapsulated semiconductor device having internal shielding. 3,469,017, 9-23-69, Cl. 174-52.

Starita, Joseph R. Rubber-containing laminates. 3,484,337, 12-16-69, Cl. 161-188.

Stark, Alexander: *See—*
Schagen, Pieter; and Stark, Alexander,3,444,322.

Stark, Arthur, to Federal Carton Corporation. Display carton. 3,446,412, 5-27-69, Cl. 229-15.

Stark, Bernard Peter: *See—*
Dubsky, George Jon; and Stark, Bernard Peter,3,458,483.

Stark, Bernard Peter; and Jones, Michael Edward Benet, to Ciba Limited. Hardenable compositions of 1,2-polyepoxides and metal chelate compounds. 3,424,699, 1-28-69, Cl. 260-2.

Stark Ceramics, Inc.: *See—*
Stewart, John H., Jr., 3,422,588.

Stark, Daniel J., to Eastman Kodak Company. Cartridge. 3,463,409, 8-26-69, Cl. 242-71.1

Stark, Edward J.; Bugni, Donald S.; and Paape, Kenneth C., to Square D Company. Unit mounting pan for an electrical enclosure structure. 3,482,143, 12-2-69, Cl. 317-120.

Stark, Edward W.: *See—*
Herman, Stephen; and Stark, Edward W.,3,476,930.
Lanes, Albert; Rachlis, Robert E.; Roth, Irving; and Stark, Edward W.,3,445,634.

Stark, Ernest H., to Barber-Colman Company. Fluid pressure transmitter. 3,452,928, 7-1-69, Cl. 236-44.

Stark, Erwin. Walk-on lawn. 3,438,206, 4-15-69, Cl. 61-11.

Stark, Forest G.: *See—*
Carpenter, Frederick A.; and Stark, Forest G.,3,421,801.

Stark, Forrest O.: *See—*
Bennett, Donald R; Stark, Forrest O.; and Vogel, George E.,3,453,194.

Stark, Forrest O.; Valicenti, John A.; and Vogel, George E., to Dow Corning Corporation. Ionizing radiation induced addition of trichlorosilane to allyl chloride. 3,453,193, 7-1-69, Cl. 204-158.

Stark, Frank B.; and Laudig, Ronald C., to AMP Incorporated. Connector for metal-sheathed cable. 3,475,545, 10-28-69, Cl. 174-88.

Stark, Frank Benjamin; and Merry, Roydon William, to AMP Incorporated. Electrical connectors. 3,462,726, 8-19-69, Cl. 339-64.

Stark, Frank Benjamin; and Merry, Roydon William, to AMP Incorporated. Electrical connectors. 3,479,635, 11-18-69, Cl. 339-64.

Stark, Frank Benjamin; and Smith, Donald Lee, to AMP Incorporated. Ceramic insulator in cable connections. 3,441,658, 4-29-69, Cl. 174-88.

Stark, Friedrich, to Werkzeugmaschinenfabrik Adolf Waldrich. Lubricating device for the interengaging elements of a worm and an internally threaded member internally threaded member. 3,454,136, 7-8-69, Cl. 184-6.

Stark, Gotthilf, Firma: *See—*
Baublys, Mikas; Sigloch, Eugen; and Stark, Gotthilf, 3,433,102.

Stark, Gotthilf: *See—*
Baublys, Mikas; Sigloch, Eugen; and Stark, Gotthilf,3,433,102.

Stark, Hermann: *See—*
Winkler, Fritz; Pohl, Franz; Stark, Hermann; Kesseler, Helmut; and Grundmann, Werner,3,424,646.

Stark, Jack L.: *See—*
Wuellner, Louis E.; Stark, Jack L.; and Crawford, James D.,3,478,218.

Stark, Louis E.; and Bertea, Octavian, to Reactive Metals, Inc. Method for melting refractory metal. 3,476,171, 11-4-69, Cl. 164-52.

Stark, Louis R.: *See—*
Hatton, Roger E.; and Stark, Louis R.,3,423,469.

Stark, Marvin M., to Pascal Company, Inc. Tooth marking method and means. 3,421,223, 1-14-69, Cl. 32-19.

Stark, Marvin W., to United States of America, Navy, mesne. Hybrid rocket motor. 3,423,943, 1-28-69, Cl. 60-251.

Stark, Marvin, to Pullman Incorporated. Body bolster center plate assembly. 3,422,772, 1-21-69, Cl. 105-228.

Stark, Michael: *See—*
Heathcote, Thomas J.; and Stark, Michael,3,450,056.

Stark, Michael; and Bollibon, George E., to Westinghouse Electric Corporation. Canned motor pump. 3,475,631, 10-28-69, Cl. 310-58.

Stark, Norman H., to Walker Manufacturing Company. Protective packaging and method. 3,464,540, 9-2-69, Cl. 206-46.

Stark, Norman H. High temperature infrared radiant heating device. 3,479,490, 11-18-69, Cl. 219-544.

Stark, Roy H., to Kennedy Van Saun Corporation. Method and apparatus for classifying finely- divided solids carried in a gas stream. 3,426,893, 2-11-69, Cl. 209-3.

Stark, Sven Olof Soren; and Giacomelli, Peter K., to AB Tetra Pak. Web edge heating element. 3,445,629, 5-20-69, Cl. 219-388.

Stark, Sven Olof Soren; and Lindh, Thyrsten Lennartson, to AB Tetra Pak. Method for manufacturing packaging blanks from web material. 3,455,214, 7-15-69, Cl. 93-36.

Stark, Sven Olof Soren; Melle, Hans-Georg Wilhelm; and Lindh, Thorsten Lennartson, to AB Tetra Pak. Method of forming an opening device comprising a slot and a strip passing through it. 3,462,334, 8-19-69, Cl. 156-256.

Stark, Sven Olof Soren: *See—*
Tornqvist, Nils Erik; and Stark, Sven Olof Soren,3,427,425.

Stark, Thomas M.; and Glaser, Marvin B., to Esso Research and Engineering Company. Product recovery in a reversible vapor phase chemical equilibrium process by multiple point withdrawal depressurization. 3,480,393, 11-25-69, Cl. 23-199.

Stark, Virgil, to North American Utility Construction Corporation. Process for making fuel gas. 3,481,721, 12-2-69, Cl. 48-197.

Stark, Virgil; and Sliosberg, Jacques, to North American Utility Construction Corporation. System of automatic controls for gas mixing. 3,437,098, 4-8-69, Cl. 137-12.

Stark, Walter. Non-skid attachment for the ground-engaging end of canes, crutches, and the like. 3,448,749, 6-10-69, Cl. 135-53.

Stark, William A.; and Raible, Donald A., to Edwards Laboratories, Inc. Double lumen diagnostic balloon catheter. 3,448,739, 6-10-69, Cl. 128-2.5

Stark, William A.: *See—*
Fogarty, Thomas J.; and Stark, William A.,3,467,102.
Fogarty, Thomas J.; Raible, Donald A.; and Stark, William A.,3,467,101.

Starkenberg, Arnold. Marking and measuring implement. 3,479,742, 11-25-69, Cl. 33-27.

Starkey, Roland J., Jr., to Ben Venue Laboratories, Inc. Method of packaging viral antisera and other research diagnostic reagents. 3,449,885, 6r17-69, Cl. 53-22.
Starkovsky, Nicolas A.; and Langer, Horst G., to Dow Chemical Company, The. Mercury derivative of glutarimide-β-acetic acid. 3,435,007, 3-25-69, Cl. 260-78.
Starkovsky, Nicolas A.: *See—*
Langer, Horst G.; and Starkovsky, Nicolas A.,3,435,037.
Starks, Charles M.: *See—*
Lundeen, Allan J.; and Starks, Charles M.,3,461,176.
Starks, Charles M.; and Kennedy, Eugene F., to Continental Oil Company. Preparation of nonionic detergents. 3,428,692, 2-18-69, Cl. 260-613.
Starks-Field, Alfred Benjamin: *See—*
Byatt, Dennis William George; and Starks-Field, Alfred Benjamin,3,456,258.
Starkweather, Howard Warner, Jr., to Du Pont de Nemours, E. I., and Company. Polyamide tape for power transmission belting. 3,480,457, 11-25-69, Cl. 117-7.
Starline, Inc.: *See—*
Boppart, Loren P., 3,450,277.
Ferris, Robert G., 3,426,924.
Ferris, Robert G.; and Gillette, Allen K., 3,443,547.
Ferris, Robert G.; Gillette, Allen K.; and Ferris, Howard J., 3,464,390.
Ferris, Robert G., 3,481,078.
Starling, Edward L., 1/2 to Farms, Nichols. Trailer hitch. 3,480,296, 11-25-69, Cl. 280-491.
Starling, James G.: *See—*
Pearce, Shairyl I.; Thorne, Dale C.; and Starling, James G.,3,481,435.
Starmans, Maria M.J.J.: *See—*
Pijpers, Franciscus W.; and Starmans, Maria M.J.J.,3,428,575.
Starmaster Trophies, Inc.: *See—*
Vezirakis, Steve, 3,454,440.
Starmer, Philip H.: *See—*
Jorgensen, August H., Jr.; and Starmer, Philip H.,3,445,413.
Starmer, Roy, to Applied Research and Engineering Limited. Multistage evaporators having distilland by-pass means. 3,431,179, 3-4-69, Cl. 202-173.
Starmer, Roy, to Applied Research and Engineering Limited. Multistage flash evaporator having baffle means and a vent in the condenser. 3,457,142, 7-22-69, Cl. 202-173.
Starmer, Roy, to Applied Research and Engineering Limited. Plural condenser evaporator. 3,461,039, 8-12-69, Cl. 202-186.
Starmer, Roy; and Hutchinson, Malcolm, to Weir Westgarth Limited, mesne. Vertical multistage distillation apparatus. 3,444,049, 5-13-69, Cl. 202-172.
Starnes, George F., 50% to Starnes, Glenn A., and Starnes, Wynn E. Cutting and doffing means for hosiery loopers. 3,425,370, 2-4-69, Cl. 112-25.
Starnes, Glenn A., and Starnes, Wynn E.: *See—*
Starnes, George F., 3,425,370.
Starnes, Peter Edward, to Hilger & Watts Limited. Radiometric analysis of powdered sample material. 3,445,651, 5-20-69, Cl. 250-43.5
Starnes, Peter Edward, to Hilger & Watts Limited. Method of radiometric analysis of fine solids suspended in a liquid. 3,469,095, 9-23-69, Cl. 250-43.5
Starnes, Willaim H., to Esso Research and Engineering Company. Synthesis of 2,6-dialkylquinones by acid decomposition of 2,6-dialkyl-4-t-alkyl-4-alkyl- peroxycyclohexadien-2,5-one-1. 3,442,915, 5-6-69, Cl. 260-396.
Starnes, William C.: *See—*
Giannetti, Joseph P.; Henke, Alfred M.; Sebulsky, Raynor T.; and Starnes, William C.,3,466,250.
Starnes, William H., Jr., to Esso Research and Engineering Company. Chlorination. 3,453,335, 7-1-69, Cl. 260-623.
Starnes, William H., Jr., to Esso Research and Engineering Company. Phenolic antioxidant composition for polyolefins. 3,458,473, 7-29-69, Cl. 260-45.95
Starnes, William H., Jr., to Esso Research and Engineering Company. Production of phenols. 3,465,049, 9-2-69, Cl. 260-623.
Starnes, William H., Jr., to Esso Research and Engineering Company. Method of producing 3,4-benzocoumarins. 3,478,061, 11-11-69, Cl. 260-343.2
Starp, Franz W. R., to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic camera diaphragm shutter. 3,421,427, 1-14-69, Cl. 95-63.
Starp, Franz W. R., to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic self-cocking shutter with electronic shutter speed control. 3,425,329, 2-4-69, Cl. 95-53.
Starp, Franz W. R., to Prontor-Werk Alfred Gauthier, G.m.b.H. Variable-aperture diaphragm having two diaphragm blades. 3,446,133, 5-27-69, Cl. 95-64.
Starp, Franz W. R., to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic camera with a feed mechanism built into the housing. 3,468,231, 9-23-69, Cl. 95-31.
Starp, Franz W. R., to Prontor-Werk Alfred Gauthier, G.m.b.H. Self-winding photographic shutter with an electronic timing device. 3,476,031, 11-4-69, Cl. 95-63.
Starp, Franz W. R.; and Bott, Reinhold, to Prontor-Werk Alfred Gauthier, G.m.b.H. Self-winding photographic shutter with an electronic timing device. 3,459,112, 8-5-69, Cl. 95-60.
Starp, Franz W. R.; and Richter, Carl Fritz, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic self-cocking shutter with swinging- through blades. 3,444,797, 5-20-69, Cl. 95-61.
Starp, Franz W. R.; Richter, Carl Fritz; and Erhard, Eugen Adolf, to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic self-winding shutter. 3,460,454, 8-12-69, Cl. 95-62.
Starp, Franz W. R.; and Rittman, Dieter, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic shutter with an electronic timing device. 3,460,451, 8-12-69, Cl. 95-10.
Starp, Franz W. R.: *See—*
Rentschler, Waldemar T.; and Starp, Franz W. R.,3,448,671.
Rentschler, Waldemar T.; and Starp, Franz W. R.,3,456,101.
Rentschler, Waldemar T.; and Starp, Franz W. R.,3,468,236.
Starr, David A., Jr., to Burroughs Corporation. Apparatus for controlling contrast in electrostatic printers. 3,449,753, 6-10-69, Cl. 346-74.
Starr, David A., Jr., to Burroughs Corporation. Trapezoidal-waveform drive method and apparatus. 3,453,452, 7-1-69, Cl. 307-263.
Starr, David A., Jr., to Burroughs Corporation. Shielded electrostatic transducer. 3,470,563, 9-30-69, Cl. 346-74.
Starr, David A., Jr., to Burroughs Corporation. Amplitude stablilized LC transistor oscillator. 3,480,880, 11-25-69, Cl. 331-109.
Starr, Eugene W.; and Misson, George W., to PPG Industries, Inc. Method and apparatus for tempering glass sheets between opposed gas flow. 3,481,724, 12-2-69, Cl. 65-25.
Starr, George N., to American Electric Maufacturing Corporation. Luminaire spiral ring coupling means. 3,483,365, 12-9-69, Cl. 240-93.
Starr, James B., to Honeywell Inc. Fluid apparatus. 3,481,352, 12-2-69, Cl. 137-81.5
Starr, Kenneth E.: *See—*
Philipsen, Richard D.; and Starr, Kenneth E.,3,452,820.
Starr, Leon, to Mobil Oil Corporation. Photochemical cycloaddition reaction process. 3,431,190, 3-4-69, Cl. 204-162.
Starr, Leon; and Mullier, Michel E., to Mobil Oil Corporation. Photolytic process for preparing polycylic fused ring dianhyorides. 3,423,431, 1-21-69, Cl. 260-346.3
Starr S. A.: *See—*
Staar, Theophiel Clement Jozef Lodewijk, 3,432,170.
Starratt, Everett O., to Wanskuck Company. Reinforced metallic reel. 3,446,455, 5-27-69, Cl. 242-118.8
Starratt, Everett O., to Wanskuck Company. Reel. 3,452,946, 7-1-69, Cl. 242-118.8
Starratt, Everett O., to Wanskuck Company. Heavy duty metallic reel. 3,468,495, 9-23-69, Cl. 242-118.8
Starratt, James Donald. Navigational buoy construction. 3,464,071, 9-2-69, Cl. 9-8.
Starrett, James R., to Bauer Bros. Co., The. Apparatus for subjecting cellulosic material to counterflow of conditioning fluid. 3,471,364, 10-7-69, Cl. 162-237.
Starrett, L. S., Company, The: *See—*
Plante, Robert A., 3,458,939.
Start, Ernest; and Blood, Raymond, to William Cotton Limited. Straight-bar knitting machines. 3,435,638, 4-1-69, Cl. 66-89.
Start, John Francis; Seglin, Leonard; and Franko-Filipasic, Borivoj Richard, to FMC Corporation. Silver oxide catalysts for decomposition of dilute H_2O_2. 3,423,330, 1-21-69, Cl. 252-427.
Startin, Kenneth John, to AMP Incorporated. Fuse end connector. 3,432,788, 3-11-69, Cl. 337-201.
Starwell Inc.: *See—*
Tate, Charles R.; and Welles, George M., 3,481,303.
Stary, Josef; Kubovy, Miloslav; and Jirasek, Erik, to Vyzkumny Ustav Bavlnarsky. Method and apparatus for the continuous ringless spinning of yarn from separated staple fibers in a rotating spinning chamber. 3,440,812, 4-29-69, Cl. 57-58.89
Stary, Josef: *See—*
Kubovy, Miloslav; Jirasek, Erik; Stary, Josef; and Zavadsky, Karel,3,481,130.
Starzec, Francis J.; Ooms, Jan; and Schlanaker, Kermit C., to Bendix Corporation, The. Single frequency communication repeater. 3,448,383, 6-3-69, Cl. 325-8.
Staschewski, Harry: *See—*
Klebl, Wolfram; Kubiak, Herbert; Staschewski, Harry; and Schatz, Friedrich,3,455,098.
Kubiak, Herbert; Schatz, Friedrich; and Staschewski, Harry,3,444,679.
Staschke, Marvin: *See—*
Sherwood, John F.; and Staschke, Marvin,3,439,711.
Stasey, Charles Marshall, to Itek Corporation. Photoelectric apparatus for detecting the borders of information bearing regions of records. 3,469,105, 9-23-69, Cl. 250-219.
Stasiek, Jan S., to Torque Controls, Inc. Torque meter. 3,453,860, 7-8-69, Cl. 73-1.

Stassart, Joseph Antoine Marie, to Fabrique Nationale d'Armes de Guerre, Societe Anonyme. Tool set for copying machines. 3,431,801, 3-11-69, Cl. 82-14.
Stastny, Fritz: *See*—
Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedhelm,3,426,491.
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Foamed articles comprising and alkali metal silicate and a styrene resin. 3,429,836, 2-25-69, Cl. 260-2.5
Stastny, Fritz; Gaeth, Rudolf; Schmitt, Bernhard; and Haardt, Udo, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of insulating materials having low specific gravity. 3,434,980, 3-25-69, Cl. 260-2.5
Stata, Stanley S. Removable and replaceable combination pan and floor grate for motor vehicles. 3,424,265, 1-28-69, Cl. 180-90.6
Stata, Stanley S. Recessed removable and replaceable combination pan and floor grate for motor vehicles. 3,450,429, 6-17-69, Cl. 296-1.
State of Israel: *See*—
Weiss, Joseph Otto, 3,430,127.
State of Israel Ministry of Defence, The: *See*—
Raviv, Samuel; Rabinovitz, Elsa; and Malkiely, Shimon, 3,446,713.
State of Israel, Ministry of Trade and Industry: *See*—
Lewin, Menachem, 3,484,340.
States of Nebraska, The: *See*—
Osipow, Lloyd I.; and Rosenblatt, William, 3,480,616.
States, Ronald Frederick, to Desoutter Brothers Limited. Pneumatically driven nutrunner. 3,440,908, 4-29-69, Cl. 81-52.4
States, William H., to Midway Fishing Tool Company. Oil well liner hanger. 3,468,375, 9-23-69, Cl. 166-120.
Statham Instruments Inc.: *See*—
Funfstuck, Horst, 3,456,173.
Norman, Jacob J., 3,450,978.
Stedman, Cecil K., 3,440,872.
Stedman, Cecil K., 3,444,736.
Stedman, Cecil K., 3,479,739.
Van Leeuwen, Andrew, 3,439,258.
Westersten, Allan, 3,449,951.
Yen, Thomas Tsing Ton, 3,486,499.
Yen, Thomas Tsington, 3,474,778.
Stather, Kenneth, to Colonial Treasurer Incorporated, The. Device for opening trawl nets. 3,460,284, 8-12-69, Cl. 43-9.
Statistical device: *See*—
Dexter, Edwin M., 3,459,206.
Statler, Lowell E. Rotary engine. 3,479,996, 11-25-69, Cl. 123-15.
Statman, Max: *See*—
Hagemeyer, Hugh J., Jr.; and Statman, Max,3,459,678.
Hagemeyer, Hugh J., Jr.; Statman, Max; and Vinyard, Herschel T.,3,442,933.
Statman, Max; Blood, Alden E.; and Vinyard, Herschel Thomas, to Eastman Kodak Company. Process for the removal of iodine from organic compounds. 3,425,798, 2-4-69, Cl. 23-91.
Statni Vyzkumny Ustav Kozedelny: *See*—
Krcal, Zdenek; Muck, Eduard; and Krcmar, Jaroslav, 3,477,288.
Statz, Hermann; and Tang, Chung-Liang, to Raytheon Company. Traveling wave single mode laser. 3,456,210, 7-15-69, Cl. 331-94.5
Staub, Alfred: *See*—
Pugin, Andre; Burdeska, Kurt E.; and Staub, Alfred,3,483,213.
Staub, Charles H.: *See*—
McGoff, Miles J.; Mausteller, John W.; and Staub, Charles H.,3,443,906.
Staub, Jennings M.; and MacPherson, Robert E., to Tracy, Bertrand P., Company. Mine machine cutter chains and the like. 3,463,026, 8-26-69, Cl. 74-254.
Stauber, Ernst, to Langendorf Watch Co. Machine for working a sequential assembly of similar small-sized apparatuses. 3,468,010, 9-23-69, Cl. 29-200.
Stauber, Hans. Powerplants and water supply system therefor within the eternal ice. 3,431,735, 3-11-69, Cl. 61-19.
Staudt, Heinrich, to Bosch, Robert, G.m.b.H. Fuel injection pump. 3,477,386, 11-11-69, Cl. 103-154.
Stauffer, Aaron Z.: *See*—
Herr, John H.; and Stauffer, Aaron Z.,3,424,350.
Stauffer, Adolf: *See*—
Furkert, Herbert; Mahler, Friedrich; Peters, Heinrich; and Stauffer, Adolf,3,443,896.
Stauffer Chemical Company: *See*—
Baker, Don R., 3,426,138.
Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B., 3,458,570.
Baker, Don R.; Brokke, Mervin E.; and McClellan, Malcolm B., 3,472,927.
Baker, Don R.; Pacini, Harry A.; and Williamson, Thomas B., 3,474,146.
Brokke, Mervin E.; Lukes, George E.; and Arkneklev, Duane R., 3,420,655.
Brokke, Mervin E.; Lukes, George E.; and Arneklev, Duane R., 3,435,043.
Brokke, Mervin E.; Lukes, George E.; and Jarneklev, Duane R., 3,438,983.
Brokke, Mervin E.; Lukes, George E.; and Arneklev, Duane R., 3,449,374.
Brokke, Mervin E.; Lukes, George E.; and Arneklov, Duane R., 3,455,674.
Chadha, Rajendra Nath; Pande, Kailash Chandra; and Ridenour, Richard Eugene, 3,440,205.
Chadha, Rajendra Nath; and Pande, Kailash Chandra, 3,470,221.
Coglaiti, Joseph S., Jr; and Masterson, Daniel J., 3,459,497.
Cooper, Robert S.; and Urfer, Allen D., 3,423,322.
Curtis, Ralston; and Lukes, George E., 3,482,960.
de Wit, Nicolaas P. M., 3,448,138.
Eidt, Scott H., 3,475,475.
Eisfeld, Wolfang T.; and Weil, Edward D., 3,444,241.
Eisfeld, Wolfgang T.; and Stamm, Walter, 3,480,680.
Fancher, Llewellyn W.; and Broadbent, David J., 3,420,918.
Fancher, Llewellyn W., 3,439,021.
Fearing, Ralph B.; and McClelland, Malcolm B., 3,439,092.
Fearing, Ralph B., 3,442,985.
Freiberg, Ashley H., 3,439,098.
Geipel, Lothar Ernst, 3,433,765.
Giolito, Silvio L., 3,454,678.
Giolito, Silvio L., 3,475,370.
Greco, Carl C.; and Mirviss, Stanley B., 3,421,911.
Greco, Carl C., 3,422,058.
Greco, Carl C., 3,428,645.
Greco, Carl C.; and Mirviss, Stanley B., 3,453,126.
Greco, Carl C., 3,466,179.
Greco, Carl C., 3,476,784.
Gutman, Arnold D.; and Orr, Jack P., 3,433,870.
Gutman, Arnold D.; Lukes, George E.; and Arneklev, Duane R., 3,467,714.
Hellmers, Henry D., 3,477,808.
Herbstman, Sheldon; and Hwa, Jesse C. H., 3,431,277.
Kane, Jacqueline C., 3,447,941.
Kane, Jacqueline C., 3,455,328.
Kane, Jacqueline C., 3,472,811.
Kezerian, Charles; Wallace, Edwin G.; and Kopacki, Adam F., 3,433,762.
Kezerian, Charles, 3,441,596.
Klein, George I., 3,464,420.
Klein, George I., 3,464,423.
Kopacki, Adam F.; and Horodecky, Jerry, 3,424,715.
Kopacki, Adam F., 3,450,667.
Kuck, Mark Allen, 3,447,900.
Lengnick, Guenther Fritz, 3,441,537.
Lengnick, Guenther Fritz; and Pepe, Anthony Enrico, 3,477,973.
Martin, Donald J., 3,437,498.
Martin, Donald J., 3,470,206.
McDonald, Harold, 3,431,214.
McDonald, Harold, 3,441,620.
McLeod, Gordon Donald, 3,428,465.
Meitinger, Sylvester Martin, 3,436,447.
Meitinger, Sylvester Martin, 3,439,383.
Morley, Henry Barclay; Skrzec, Adam E.; and Shiloff, Jerome C., 3,454,359.
Neuroth, Charles G., 3,436,252.
Pande, Kailash Chandra; and Ridenour, Richard Eugene, 3,440,206.
Pande, Kailash Chandra; and Ridenour, Richard Eugene, 3,448,136.
Pande, Kailash Chandra; and Lengnick, Guenther Fritz, 3,471,434.
Price, Glenn R., 3,457,333.
Price, Glenn R., 3,480,594.
Price, Glenn R., 3,480,699.
Simone, Raymond A., 3,442,928.
Sorstokke, Harold E., 3,420,921.
Stamm, Walter, 3,440,268.
Stamm, Walter, 3,461,091.
Stamm, Walter; Greco, Carl C.; and Beck, Thomas M., 3,466,307.
Stamm, Walter A.; and Greco, Carl C., 3,477,933.
Szabo, Karoly; and Brady, John Gary, 3,427,384.
Szabo, Karoly; Fancher, Llewellyn W.; and Broadbent, David J., 3,446,896.
Szabo, Karoly; and Brady, John Gary, 3,457,283.
Szabo, Karoly; and Brady, John Gary, 3,462,530.
Szabo, Karoly; and Freiberg, Ashley H., 3,479,437.
Tilles, Harry; Baker, Don R.; and Dewald, Chester L., 3,480,671.
Tilles, Harry; and Broadbent, David J., 3,487,151.
Uhing, Eugene H., 3,453,301.
Walsh, Edward N.; and Uhing, Eugene H., 3,440,222.
Stauffer, Donald R., to Bethlehem Steel Corporation. Impact hammer demolition apparatus. 3,446,292, 5-27-69, Cl. 173-35.
Stauffer, Franklin K.: *See*—
Spencer, Gordon R.; and Stauffer, Franklin K.,3,473,076.

Stauffer, Harry C.: *See—*
Donaldson, Robert E.; Murphy, Harry C., Jr.; and Stauffer, Harry C.,3,481,863.
Stauffer, Lynn H., to General Electric Company. Method and apparatus for extracting a charged particle beam into a higher pressure atmosphere. 3,428,776, 2-18-69, Cl. 219-121.
Stauffer, Lynn H. General Electric Company Hollow cathode, nonthermionic electron beam source with replaceable liner. 3,486,064, 12-23-69, Cl. 313-231.
Stauffer, Norman L., to Honeywell, Inc. Alphanumeric galvanometer recorder. 3,422,444, 1-14-69, Cl. 346-109.
Stauffer, Norman L.; Shafer, Donald E.; and Tyler, Tommy N., to Honeywell Inc. Fiber optics cathode-ray tube recorder. 3,434,158, 3-18-69, Cl. 346-110.
Stauffer, Robert E., to Jeffrey Galion Manufacturing Company. Steering system for vehicles. 3,437,166, 4-8-69, Cl. 180-79.2
Stauffer, Robert E., to Jeffrey Galion Manufacturing Company. Extensible and retractable boom construction for cranes. 3,478,894, 11-18-69, Cl. 212-55.
Stauffer, Robert E. Means for extending and retracting boom sections of a crane. 3,481,489, 12-2-69, Cl. 212-55.
Stauffer, Thomas A.: *See—*
Standeven, Joseph David; and Stauffer, Thomas A.,3,461,314.
Staug, Alfred: *See—*
Pugin, Andre; Burdeska, Kurt E.; and Staug, Alfred,3,484,454.
Staunton, G. S., & Company, Inc.: *See—*
Henning, Dan C., 3,431,335.
Staunton, John J. J., to Perkin-Elmer Corporation, The. Reference electrode and method of making same. 3,461,055, 8-12-69, Cl. 204-195.
Staunton, John J. J.; Malter, Lewis; Gleason, William J.; Malter, Lewis; Gleason, William J.; and Bull, Rame W. Analytical combustion train. 3,428,432, 2-18-69, Cl. 23-253.
Stauss, Siegfried, to Mahle Komm.-Ges. Method of producing a piston blank containing an annular insert. 3,471,914, 10-14-69, Cl. 29-156.5
Stautzenberger, Adin L.: *See—*
Mac Lean, Alexander F.; and Stautzenberger, Adin L.,3,459,644.
MacLean, Alexander F.; and Stautzenberger, Adin L.,3,462,504.
MacLean, Alexander F.; and Stautzenberger, Adin L.,3,479,262.
Stav, Arne. Safety device for a projectile. 3,435,767, 4-1-69, Cl. 102-70.2
Stavis, Gus: *See—*
Flower, Robert A.; Stavis, Gus; and Gamertsfelder, George R.,3,432,237.
Stavropoulos, Andre A.: *See—*
Drouard, Jean L.; and Stavropoulos, Andre A.,3,487,457.
Stayboldt, Paul J.: *See—*
Schumann, Joseph M.; Stayboldt, Paul J.; and Cook, Ralph J.,3,439,839.
Stayer, Anna M. Double scalpel for removal of scar tissue. 3,452,754, 7-1-69, Cl. 128-305.
Stayner, Robert A., to Chevron Research Company. High temperature soldering oil. 3,467,556, 9-16-69, Cl. 148-25.
Stayner,Vance A., to Federal Huber Company. Hinged ball rod and a valve assembly thereof including the same. 3,419,919, 1-7-69, Cl. 4-203.
Stcherbatcheff, Georges: *See—*
Millois, Robert; Peiffert, Jean; and Stcherbatcheff, Georges,3,453,515.
Stcherbatcheff, Georges. Electric motor with a bridge-type magnetic circuit. 3,469,133, 9-23-69, Cl. 310-164.
S.T.D. Services Limited: *See—*
Jones, Alec John, 3,456,476.
Ste Anonyme dite: *See—*
Archer, Jean Francois, 3,473,320.
Ste. anonyme dite: STAS, Societe Technique d' Accessoires Specialises:*See—*
Archer, Jean Francois, 3,442,548.
Steadman, Allen P., to Young, William E. Method of making hermetically sealed skin packages. 3,481,101, 12-2-69, Cl. 53-22.
Steadman Industries Limited: *See—*
Hand, Albert M., 3,439,821.
Steadman, Thomas R.: *See—*
Daniels, David A.; Harper, James L.; and Steadman, Thomas R.,3,479,387.
Ketley, Arthur D.; and Steadman, Thomas R.,3,463,740.
Steadman, William D. Modular, bonded building wall. 3,475,873, 11-4-69, Cl. 52-293.
Steam Sales & Service Co.: *See—*
Baily, Jack H.; and Sterling, Eli, 3,473,245.
Stearman, Lloyd C. Detachable fuselage aircraft. 3,481,567, 12-2-69, Cl. 244-118.
Stearns, Barbara, to Squibb, E. R., & Sons, Inc. Method of controlling weeds with dithiodianiline compounds. 3,484,228, 12-16-69, Cl. 71-66.
Stearns, Dick E.: *See—*
Lee, Robert H.; and Stearns, Dick E.,3,435,320.
Stearns, Donald M. Sewage disposal system. 3,477,581, 11-11-69, Cl. 210-195.
Stearns Electric Corporation: *See—*
Reiff, Donald H., 3,458,022.
Reiff, Donald H., 3,485,330.
Wrensch, Bernard E., 3,438,471.
Wrensch, Bernard E., 3,446,322.
Stearns, John M., to Riggs & Lombard, Inc. Adjustable guide wall assembly. 3,446,409, 5-27-69, Cl. 226-118.
Stearns, Robert Edward, to Dicken Manufacturing Company. Well pipe connector. 3,420,303, 1-7-69, Cl. 166-88.
Stearns, Robert I., to Monsanto Company. Electrolytic production of high-purity gallium. 3,423,301, 1-21-69, Cl. 204-105.
Stearns, Thomas H.: *See—*
Tally, Sidney K.; and Stearns, Thomas H.,3,446,908.
Tally, Sidney K.; Dahlgren, Victor F.; and Stearns, Thomas H.,3,433,888.
Stearns-Roger Corporation: *See—*
Bauserman, Howard M., 3,478,679.
Stearns-Roger Corporation, The: *See—*
Svoboda, Daniel, 3,441,149.
Stebbins, David T. Method for relaxing wrinkles in fabrics. 3,436,772, 4-8-69, Cl. 8-149.2
Stebbins, Jerald T.: *See—*
Turnage, Rodger Elmo, Jr.; Stebbins, Jerald T.; and Crump, Lawrence R.,3,476,974.
Stebbins, Mark C., & Sons, Inc.: *See—*
Stebbins, Mark C., 3,448,902.
Stebbins, Mark C., to Stebbins, Mark C., & Sons, Inc. Clothes hanger. 3,448,902, 6-10-69, Cl. 223-85.
Stebbins, Max Raymond: *See—*
Cabasso, Victor Jack; Stebbins, Max Raymond; and Frazza, Everett Joseph,3,455,782.
Steber, Anthony J.; and Weber, Robert E., to Kimberly-Clark Corporation. Hectographic unit including a master sheet having a pigmented proteinaceous cellular coating. 3,427,971, 2-18-69, Cl. 101-473.
Steber Corporation: *See—*
Stephens, John T., 3,472,237.
Stebleton, Leo F., to Dow Corning Corporation. Tack-free silicone rubber articles for medical use. 3,460,975, 8-12-69, Cl. 117-94.
Stebley, Frank E. Wash and wear shirt. 3,421,159, 1-14-69, Cl. 2-116.
Stec, Frederick J.: *See—*
Boik, Arnold R.; and Stec, Frederick J.,3,426,714.
Stec, Frederick J., to Continental Can Company, Inc. Mesh reinforced closure for full opening can. 3,434,651, 3-25-69, Cl. 229-43.
Stec, Frederick J., to Continental Can Company, Inc. Easy opening container panel structure. 3,441,171, 4-29-69, Cl. 220-54.
Stec, Frederick J., to Continental Can Company, Inc. Score shield and anti-implosion ring. 3,447,713, 6-3-69, Cl. 220-54.
Stec, Frederick J.; and Westphal, Teddy M., to Continental Can Company, Inc. Easy opening container. 3,450,301, 6-17-69, Cl. 220-54.
Stechemesser, Ernst; and Gebhardt, Reinhold, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Composing apparatus. 3,455,217, 7-15-69, Cl. 95-4.5
Stecher, Frank L., to Fairbanks Morse Inc. Rotor shaft bearing for submersible motors. 3,484,633, 12-16-69, Cl. 310-87.
Stecher-Traung-Schmidt Corporation: *See—*
Olsen, Peter R., 3,429,499.
Steck, Alfred B., to Sivyer Steel Casting Company. Method of forming a plastic container. 3,453,229, 7-1-69, Cl. 260-38.
Steck, Robert S.; and Barnes, Harold N. Traverse rod assembly. 3,430,678, 3-4-69, Cl. 160-346.
Stecke, John W. Composite shipping boxes. 3,426,933, 2-11-69, Cl. 217-40.
Steckenrider, Ray N., to International Business Machines Corporation. Position identifying device. 3,461,454, 8-12-69, Cl. 343-112.
Stecker, Herbert C. Dimethyl fluoride-substituted methylene bisphenol germicides and fungicides. 3,431,343, 3-4-69, Cl. 424-347.
Stecker, Herbert C. Certain halo and dihalo N-substituted salicylamides. 3,455,940, 7-15-69, Cl. 260-295.
Steckhahn, Frank L.: *See—*
Marder, Herman L.; and Steckhahn, Frank L.,3,482,737.
Stedfeld, Rowland L., to General Motors Corporation. Quick disconnect coupling. 3,429,594, 2-25-69, Cl. 285-317.
Stedfeld, Rowland L., to General Motors Corporation. Rate of fluid pressure change sensor for effecting a signal. 3,441,695, 4-29-69, Cl. 200-81.
Stedfeld, Rowland L., to General Motors Corporation. Valve operated by rate of fluid pressure change. 3,476,133, 11-4-69, Cl. 137-115.
Stedman, Cecil K., to Statham Instruments, Inc. Strain gage assembly involving clamped beam with planar strain gage mounting surface and oppositely inflected strain gages. 3,440,872, 4-29-69, Cl. 73-141.
Stedman, Cecil K., to Statham Instruments, Inc. Square root responsive pressure transducers. 3,444,736, 5-20-69, Cl. 73-205.
Stedman, Cecil K., to Statham Instruments, Inc. Method of making a transducer beam. 3,479,739, 11-25-69, Cl. 29-620.

Stedman, Clark R. Pre-flight box. 3,423,006, 1-21-69, Cl. 229-19.
Stedman, Cresswell E., deceased0 (by Stedman, Elizabeth K.; administratrix), to U.S. Perlite Corporation. Molding apparatus for molding acoustical tile. 3,441,244, 4-29-69, Cl. 249-160.
Stedman, David D.: *See—*
Hearn, Daniel P.; and Stedman, David D.,3,444,721.
Stedman, Donald F., to Canadian Patents and Development Limited. Rain repellent compositions. 3,449,135, 6-10-69, Cl. 106-2.
Stedman, Elizabeth K.: *See—*
Stedman, Cresswell E.,3,441,244.
Stedman, Robert John, to Smith Kline & French Laboratories. 2-Aminobenzimidazole and a process for preparing 2-aminobenzimidazoles. 3,455,948, 7-15-69, Cl. 260-309.2
Stedman, Robert John, to Smith Kline & French Laboratories. Aminopolycyclodecanes. 3,456,008, 7-15-69, Cl. 260-563.
Stedman, Robert John, to Smith Kline & French Laboratories. Process for producing 2- carbalkoxyaminobenzimidazoles. 3,480,642, 11-25-69, Cl. 260-309.2
Stedman, Robert N.: *See—*
Anderson, Norman L.; Darnall, Millard K.; Morgan, William C.; Peterson, Laurel L.; and Stedman, Robert N.,3,478,902.
Stedman, Russell F.: *See—*
Rosenwald, Robert H.; Stedman, Russell F.; and Hughes, James C.,3,425,815.
Stedry, Edward G.: *See—*
Guyton, James H.; Lutz, Phillip A.; and Stedry, Edward G.,3,447,088.
Steed, Michael William, to Lever Brothers Company. Dyeing process. 3,429,646, 2-25-69, Cl. 8-10.
Steed, Stanley: *See—*
Slivinsky, Cornell J.; and Steed, Stanley,3,476,625.
Steeg, Hans Joachim: *See—*
Korpiun, Joachim; and Steeg, Hans Joachim,3,446,716.
Steel Company of Canada, Limited, The: *See—*
Addinall, Ramon Leonard; and Milbourne, Robert J., 3,442,608.
Baldwin, Philip F., 3,481,816.
Heitmann, Gunter, 3,469,970.
Heitmann, Gunter, 3,486,883.
Koch, Walter; and Zugel, Ottmar, 3,462,262.
Longley, Harry F.; Bedford-Jones, Peter E.; and Battle, Thomas, 3,443,930.
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H. H., 3,472,649.
Sibakin, Jaroslaw George; Roeder, Gordon A.; and Hookings, Paul H.H., 3,472,650.
Steel Construction & Engineering Co.: *See—*
Savory, Frederick R., 3,437,230.
Steel, Francis R., Jr., to Motorola, Inc. Transmission system utilizing independent diversity reception on plural sideband components. 3,462,554, 8-19-69, Cl. 179-15.
Steel, Francis R., Jr.: *See—*
Magnuski, Henry; and Steel, Francis R., Jr.,3,471,646.
Steel Heddle Manufacturing Company: *See—*
Kaufmann, Frank H., 3,428,094.
Kaufmann, Frank H.; and Kramer, Charles F., 3,470,920.
Kramer, Charles F., 3,442,298.
Russell, James S.; and Kaufmann, John J., Jr., 3,451,439.
Russell, James S., 3,459,239.
Steel, Homer J. Cold bending of tubes. 3,440,851, 4-29-69, Cl. 72-150.
Steel, Homer J. Cold tube bending with outer bend wall thickness control. 3,452,570, 7-1-69, Cl. 72-156.
Steel Improvement & Forge Company, The: *See—*
Philpott, Richard Dale, 3,448,024.
Steel Improvement and Forge Company, The: *See—*
Smith, Ellsworth M., 3,478,915.
Steel, Robert N.; Butsch, Paul V.; and Nojiri, Richard T., to Uniroyal, Inc. Method of making a leather-like microporous sheet material. 3,462,326, 8-19-69, Cl. 156-72.
Steel, Thomas; Petrie, James Alexander; and Honey, Alfred John, to Rolls-Royce Limited. Jet pipes. 3,438,400, 4-15-69, Cl. 138-40.
Steelcase, Inc.: *See—*
Levit, Edward C.; and Olree, Adrian R., 3,482,708.
Olree, Adrian R., 3,454,320.
Pipe, John, 3,431,042.
Pipe, John, 3,449,033.
Poppe, Robert P.; and McNally, Donald E., 3,431,022.
Schroeder, Lester F., 3,430,287.
Schroeder, Lester F., 3,437,126.
Steelco Engineering Co.: *See—*
Knorr, Rex B., 3,475,017.
Steelcraft Corporation: *See—*
Franklin, David M., 3,451,363.
Steelcraft Manufacturing Company, The: *See—*
Maloney, Joseph, 3,426,418.
Steele, Byron. Lost wax casting method. 3,424,226, 1-28-69, Cl. 164-28.
Steele, Charles John: *See—*
Beck, John William; and Steele, Charles John,3,463,993.
Steele, Chester R., to Swing Co., Inc. Swing-out tire rack. 3,460,695, 8-12-69, Cl. 214-454.
Steele, Clarence R.; and Allen, Norval F., to American Factors Associates, Limited, mesne. Centrifugal basket assembly and method of making same. 3,425,561, 2-4-69, Cl. 210-380.
Steele, Clarence R.: *See—*
Silver, Harold F.; Steele, Clarence R.; and Price, Frank B.,3,443,905.
Steele, David J., to Westinghouse Electric Corporation. Electrical control apparatus. 3,470,436, 9-30-69, Cl. 318-227.
Steele, Duane R.: *See—*
Rylander, Paul N.; and Steele, Duane R.,3,423,472.
Steele, Earl L.: *See—*
Gudmundsen, Richard Austin; and Steele, Earl L.,3,444,478.
Steele, Guy, to Xerox Corporation. Transport system. 3,475,936, 11-4-69, Cl. 72-53.
Steele, Irvin E. Multi-purpose underground tank. 3,433,258, 3-18-69, Cl. 137-590.
Steele, James E.: *See—*
Sheary, George W., III; and Steele, James E.,3,480,326.
Steele, Luther R.: *See—*
Persico, George J.; and Steele, Luther R.,3,472,057.
Steele, Martin C.; and Califano, Francesco Paolo, to RCA Corporation. Production of amplitude modulated light by a solid state oscillator. 3,477,041, 11-4-69, Cl. 332-7.51
Steele, Raymond, to Matthey Bishop, Inc., mesne. Platinum coating composition, process and platinum coated materials. 3,470,019, 9-30-69, Cl. 117-227.
Steele, Richard K.; Cruise, Thamo C.; and Jang, Samuel W., to Aerojet-General Corporation. Pressure sensing cell and system. 3,427,876, 2-18-69, Cl. 73-141.
Steele, Robert W., to Philco-Ford Corporation. Speech apparatus which produces a time- multiplex signal having an interlace pattern. 3,437,761, 4-8-69, Cl. 179-15.55
Steele, William E.: *See—*
Hagopian, Jacob J.; and Steele, William E.,3,437,074.
Steelmade, Inc.: *See—*
Sturrock, John C., 3,445,036.
Steelman, Clarence, Jr.: *See—*
Robinson, Melville W., Jr.; Steelman, Clarence, Jr.; and Perkins, Enoch, Jr.,3,445,284.
Steelman, Stuart A. Endless tape cartridge. 3,481,551, 12-2-69, Cl. 242-55.19
Steely, Norman E., to Polymer Corporation, The. Polylactams produced by the anionic polymerization of higher lactams using polymethylene polyphenyl isocyanate as promoter. 3,423,372, 1-21-69, Cl. 260-78.
Steen, Floyd L., to General Electric Company. Current tansformer having an accuracy unimpaired by stray flux from adjacent conductors. 3,449,703, 6-10-69, Cl. 336-174.
Steen, Ronald G., to Esterline Corporation. Sterile ink supply. 3,482,258, 12-2-69, Cl. 346-140.
Steen, Stephen N.: *See—*
Liccardi, Thomas V.; Steen, Stephen N.; and Gelb, Edward J.,3,483,949.
Steen, William A.: *See—*
Anderson, John E.; Holloway, Francis H.; and Steen, William A.,3,469,948.
Steenber, Laurence R., to Universal Oil Products Company. Desulfurization and conversion of black oils to maximize gasoline production. 3,445,377, 5-20-69, Cl. 208-93.
Steeneken, Johannes: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,541.
Steep Rock Iron Mines Limited: *See—*
Cavanagh, Patrick Edgar, 3,427,013.
Steer, Colin: *See—*
Jared Marshall; and Steer, Colin,3,486,219.
Steer, Ensor William Harold; and Bowman, Kenneth Frederick Charles, to Phillips Engineering Limited. Apparatus for use in opening chests or boxes. 3,457,642, 7-29-69, Cl. 30-2.
Steere Enterprises Inc.: *See—*
Love, William C., 3,436,097.
Russell, John R., 3,468,411.
Steetle, David R.: *See—*
Lehnhardt, Stanley E.; and Steetle, David R.,3,473,153.
Steetley Refractory Brick Company Limited, The: *See—*
Woodhouse, Dennis; and Harbach, Arthur John, 3,475,188.
Stefan, Frank N.; and Gannett, Chauncey W., to Goodyear Tire & Rubber Company, The, mesne. Door handling fixture. 3,458,057, 7-29-69, Cl. 214-1.
Stefan, Frank N.; and Harkins, James L., to Goodyear Tire & Rubber Company, The. Door handling apparatus. 3,458,056, 7-29-69, Cl. 214-1.
Stefan, John P.; and Horton, Emmett J., to Ford Motor Company. Internal combustion engine valve seat. 3,428,035, 2-18-69, Cl. 123-188.
Stefanakis, William. Mirror assembly with seal tight construction. 3,445,151, 5-20-69, Cl. 350-67.
Stefanik, Donald J., to SCM Corporation. Binary numbers comparator circuit. 3,467,946, 9-16-69, Cl. 340-146.2
Stefanyk, Michael. Municipal incinerator. 3,431,872, 3-11-69, Cl. 110-7.

Steffe, Harlan E. Auto transport. 3,429,467, 2-25-69, Cl. 214-384.
Steffen, Hermann; Jones, Rodney; and Nellen, Horst, to Teves, Alfred, GmbH. Hydrodynamic brake with axially shiftable stator. 3,467,225, 9-16-69, Cl. 188-90.
Steffen, Sylvester L. Apparatus and method for leveling and emptying material in and from storage bin. 3,438,517, 4-15-69, Cl. 214-17.
Steffen, Vincent B. Base for steel storage bin. 3,426,445, 2-11-69, Cl. 34-233.
Steffenini, Francesco. Double-walled tubular body and devices for making same. 3,464,450, 9-2-69, Cl. 138-113.
Steffens & Noelle Aktiengesellschaft: *See—*
Otto, Frei; and Nerlich, Rolf, 3,474,588.
Steffens, George L.: *See—*
Tso, Tien C.; and Steffens, George L.,3,438,765.
Steffens, James E.: *See—*
Gray, Avrum; Wayne, Harry A.; and Steffens, James E.,3,452,210.
Wideburg, Allen C.; and Steffens, James E.,3,465,449.
Steffens, John R. Jig for installation of hinges. 3,442,308, 5-6-69, Cl. 144-27.
Steffens, Karl, to Varta Aktiengesellschaft. Housing for electric storage cells and method of producing same. 3,476,286, 11-4-69, Cl. 220-39.
Steffens, Karl, to Varta Aktiengesellschaft. Casing for electrode assemblies of electric storage cells. 3,483,043, 12-9-69, Cl. 136-166.
Steffens, Robert N., to Cronite Co., Inc., The. Ink fountain for a die stamping press. 3,472,163, 10-14-69, Cl. 101-350.
Steffensmeier, Robert A.: *See—*
Hanish, Harry W.; and Steffensmeier, Robert A.,3,442,273.
Steffenssen, Otto: *See—*
Beyer-Olsen, Knut; and Steffenssen, Otto,3,423,776.
Steffgen, Frederick W., to Atlantic Richfield Company. Aromatic hydrogenation to form cyclohexane with added nitrogen-containing compounds. 3,446,863, 5-27-69, Cl. 260-667.
Steffgen, Frederick W., to Atlantic Richfield Company. Nondestructive catalytic hydrogenation of aromatics. 3,463,829, 8-26-69, Cl. 260-667.
Steffgen, Frederick W., to Atlantic Richfield Company. Olefin oxidation catalyst. 3,476,809, 11-4-69, Cl. 260-604.
Steffner, Sven Evert: *See—*
Ivnas, Lennart; Lindvall, Erik Emanuel; and Steffner, Sven Evert,3,481,686.
Stege, Wolf-Dieter: *See—*
Stockburger, Dieter; Sinn, Richard; Raichle, Ludwig; Buschmann, Karl; and Stege, Wolf-Dieter,3,449,238.
Stegelman, Albert F.: *See—*
Gunnell, Thomas J.; and Stegelman, Albert F.,3,468,632.
Stegeman, Bernardus, to Bull General Electric (Nederland) N.V. Automatic stacker pocket unloading device. 3,426,923, 2-11-69, Cl. 214-6.
Stegen, Robert J., to Canoga Electronics Corporation. Dual frequency antenna employing parabolic reflector. 3,445,850, 5-20-69, Cl. 343-727.
Stegenga, Jerry A., to Milgo Electronic Corporation. Thermal printing device. 3,453,648, 7-1-69, Cl. 346-76.
Stegenga, Jerry A.: *See—*
Boyce, David B.; Minicucci, Peter, Jr.; and Stegenga, Jerry A.,3,446,328.
Steggewentz, Hermann: *See—*
Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann,3,471,326.
Steghart, Fritz Ludwig Felix; Cross, Gerald; Kershaw, Peter Leslie; Oliver, Trevor Exelby; and Farrant, Leonard George, to Satchwell Controls Limited. Apparatus for controlling the temperature of a medium. 3,424,377, 1-28-69, Cl. 236-1.
Stegner, Douglass M., to Baltimore Box Company. Self-locking reinforced divided carton. 3,456,862, 7-22-69, Cl. 229-27.
Stehle, Heinz: *See—*
Peehs, Martin; and Stehle, Heinz,3,461,523.
Stehle, Heinz; Kaden, Werner; and Schaal, Alfred, to Siemens Aktiengesellschaft. Method and apparatus for welding and checking tubular workpieces. 3,444,351, 5-13-69, Cl. 219-124.
Stehle, Pierre Raoul Joseph. Device for imparting a prescribed rotation to a light dispersing element of an optical spectro- photometer. 3,437,412, 4-8-69, Cl. 356-256.
Stehlin, Robert A., to Texas Instruments, Incorporated. Monolithic circuit with high Q capacitor. 3,474,309, 10-21-69, Cl. 317-235.
Stehlin, Robert A.: *See—*
Bohannon, Ralph O., Jr.; and Stehlin, Robert A.,3,465,215.
Stehmann, Hans-Peter: *See—*
Unger, Artur; Stehmann, Hans-Peter; and Heidenreich, Paul,3,426,519.
Stehr, Charles E.: *See—*
Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E.,3,483,102.
Steibel, James P., to Dumore Company, The. Controllable motion and force converter. 3,475,972, 11-4-69, Cl. 74-25.
Steide, Walter M.: *See—*
Nilsen, Peter J.; and Steide, Walter M.,3,463,452.
Steidinger, Donald J., to Uarco Incorporated. Continuous envelope assembly. 3,437,259, 4-8-69, Cl. 229-69.
Steierman, Bernard L.: *See—*
Asunmaa, Saara K.; and Steierman, Bernard L.,3,480,459.
Steiert, Alois F.; and Steiert, Earle. Magnetic and gravity actuated indexable chance spinner. 3,425,698, 2-4-69, Cl. 273-141.
Steiert, Earle: *See—*
Steiert, Alois F.; and Steiert, Earle,3,425,698.
Steigelman, Herman A., to Owens-Illinois, Inc. Glass surfaces having dual protective label accepting coatings and method. 3,425,859, 2-4-69, Cl. 117-72.
Steigelmann, Edward F., to Chevron Research Company. Method of producing electricity in a fuel cell using a hydrazine fuel and group 8 metal phosphides as catalysts. 3,451,852, 6-24-69, Cl. 136-86.
Steiger, Anton, to Sulzer Brothers Limited. Free piston-type internal combustion pumping engine. 3,432,088, 3-11-69, Cl. 230-56.
Steiger, Norbert: *See—*
Keller, Oscar; Steiger, Norbert; and Sternbach, Leo Henryk,3,442,946.
Steiger, Robert. Knitting machine. 3,436,933, 4-8-69, Cl. 66-60.
Steigerwald, Delbert: *See—*
Boegli, Charles P.; and Steigerwald, Delbert,3,431,891.
Steigerwald, K. H., GmbH: *See—*
Steigerwald, Karl-Heinz; and Meyer, Edgar, 3,474,219.
Steigerwald, Karl Heinz. Machining device using a corpuscular beam. 3,426,173, 2-4-69, Cl. 219-121.
Steigerwald, Karl Heinz. Method of processing workpieces by means of energy-carrying rays. 3,448,240, 6-3-69, Cl. 219-121.
Steigerwald, Karl-Heinz; and Meyer, Edgar, to Steigerwald, K. H., GmbH. Machining process using radiant energy. 3,474,219, 10-21-69, Cl. 219-121.
Steigerwald Strahltechnik GmbH: *See—*
Meyer, Edgar; and Scheffels, Wilhelm, 3,478,244.
Steigman, Joseph; and Chiccarelli, Fortunato Stephen, said Chiccarelli assor to American Cyanamid Company. Selective membranes-a process for altering the adsorption qualities of cellulose membranes. 3,457,256, 7-22-69, Cl. 260-212.
Steijner, Olof, to Mo och Domsjo Aktiebolag. Apparatus for sulphonating and/or sulphating organic compounds controlling the sulphonation or sulphation degree according to the conductivity of the reaction mixture. 3,438,744, 4-15-69, Cl. 23-285.
Steijner, Olof: *See—*
Grunewald, Helmut; and Steijner, Olof,3,438,742.
Grunewald, Helmut; and Steijner, Olof,3,438,743.
Sellin, Jan; and Steijner, Olof,3,431,082.
Steiman, Jean. Watchcase. 3,479,771, 11-25-69, Cl. 58-90.
Stein, Alexander. Clothes hanger. 3,441,184, 4-29-69, Cl. 223-89.
Stein, Alfred H.: *See—*
Hirs, Gene; and Stein, Alfred H.,3,480,330.
Hirs, Gene; MacKenzie, Kenneth W.; and Stein, Alfred H.,3,468,778.
Stein, Bernard J.: *See—*
Baehr, William H.; Stein, Bernard J.; and Weinberg, Milton,3,424,988.
Stein, Bernard; and Weinberg, Melvin S., to Sanders Associates, Inc. Pneumatic accelerating device with frangible diaphragm release means. 3,422,808, 1-21-69, Cl. 124-11.
Stein, Daniel: *See—*
Carder, Frank B.; Wright, Robert; Canade, George F.; and Stein, Daniel,3,472,175.
Stein, Elmer L. Transparency or the like with controlled body, and a method of producing the product. 3,462,338, 8-19-69, Cl. 161-3.
Stein, F. Kenneth. Vise. 3,486,746, 12-30-69, Cl. 269-251.
Stein, Frank S., to General Motors Corporation. Thermophotovoltaic energy convertor with photocell mount. 3,433,676, 3-18-69, Cl. 136-89.
Stein, Gary, to Applied Power Industries, Inc. Segmented oil film bearing for fluid translator. 3,450,058, 6-17-69, Cl. 103-173.
Stein, Gerhard M., to Westinghouse Electric Corporation. Interleaved electrical winding structures. 3,460,084, 8-5-69, Cl. 336-187.
Stein, Harold A., to Carborundum Company, The. Aluminosilicate zeolite in a synthetic resin bonded abrasive article. 3,469,959, 9-30-69, Cl. 51-298.
Stein, Herman H., to Abbott Laboratories. Electrolytic process for preparing cyclohexyl- hydroxylamine. 3,472,748, 10-14-69, Cl. 204-73.
Stein, Ira S.: *See—*
Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vsevolod,3,448,025.
Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vesvolod,3,474,019.
Stein, Ira S.; Tulagin, Vsevolod; and Mihajlov, Vsevolod S., to Xerox Corporation. Electrophoretic refining of photosensitive particles. 3,446,722, 5-27-69, Cl. 204-180.
Stein, John C., to Corning Glass Works. Adjustable orifice apparatus for forming glass films. 3,473,911, 10-21-69, Cl. 65-325.

Stein, Jolyon A.: *See—*
Ganske, Warren L.; Stein, Jolyon A.; Gidlow, Rolf G.; and McCarron, Fred H.,3,433,644.
Stein, Joseph L.: *See—*
Farrington, Grant M., Jr.; Stein, Joseph L.; and Treffner, Walter S.,3,425,852.
Stein, Karl-Ulrich: *See—*
Feldtkeller, Ernst; and Stein, Karl-Ulrich,3,459,517.
Stein, Laurence B., Jr., to Sigma Instruments, Inc. Electrical decoding circuitry. 3,422,315, 1-14-69, Cl. 317-22.
Stein, Leonard A., to Catalyst Research Corporation. Thermal battery with temperature indicating potting composition. 3,445,291, 5-20-69, Cl. 136-83.
Stein, Morris O., to Burroughs Corporation. Memory core testing apparatus. 3,474,421, 10-21-69, Cl. 340-174.
Stein, Nathan, to Mobil Oil Corporation. Sand control method using a particulate pack with external and internal particle size distribution relationships. 3,434,540, 3-25-69, Cl. 166-4.
Stein, Norman; Meyer, Delbert H.; Knobloch, James O.; and Liao, Hsiang Peng, to Standard Oil Company (Indiana). Trimellitic acid production and recovery of intramolecular anhydride. 3,484,458, 12-16-69, Cl. 260-346.4
Stein, Paolo Mario. Continuous production of heat-insulating sheets. 3,480,509, 11-25-69, Cl. 162-309.
Stein, Reinhardt P.; Buzby, George C., Jr.; and Smith, Herchel, to American Home Products Corporation. Process for cleaving an a-ring ether group in 13- alkylgona-(and 8-isogona)-1,3,5(10)-trienes and delta-7-, delta-8(9)-, and delta 8(9), 14(15)- dehydro derivatives thereof. 3,436,411, 4-1-69, Cl. 260-397.5
Stein, Reinhardt P.; Buzby, George C., Jr.; Smith, Robert C., Jr.; and Smith, Herchel, to American Home Products Corporation. 11-Oxygenated-8-iso steroids. 3,465,011, 9-2-69, Cl. 260-397.45
Stein, Reinhardt P.; and Smith, Herchel, to American Home Products Corporation. Process for selectively acylating the 3-ol group in polyhydroxy 13-alkyl gona- (and 8-isognoa)-1,3,5- (10)-trienes and delta-7-, delta-8(9), delta-9(11)-, and delta-8(9),14(15)-dehydro derivatives thereof. 3,478,070, 11-11-69, Cl. 260-397.5
Stein, Reinhardt P.; Smith, Herchel; and Smith, Robert C., to American Home Products Corporation. Process for the preparation of 17- substituted 13-alkylgona-1,3,5(10),6,8- and 1,3,5(10),8,14-pentaenes. 3,475,468, 10-28-69, Cl. 260-397.45
Stein, Richard J.: *See—*
Plaster, Bernard J.; and Stein, Richard J.,3,453,240.
Stein, Robert E., to General Steel Industries, Inc. Resiliently centered locomotive truck. 3,447,484, 6-3-69, Cl. 105-136.
Stein, Robert George: *See—*
Biel, John H.; Li, Jorge P.; and Stein, Robert George,3,484,446.
Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru,3,424,758.
Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru,3,450,694.
Stein, Robert R.; and Coe, Stanley H., to Grant Pulley and Hardware Corporation. Adjustable bracket. 3,463,433, 8-26-69, Cl. 248-242.
Stein, Roy H. Extendable rigid column assembly. 3,457,685, 7-29-69, Cl. 52-108.
Stein, Sam, Associates, Inc.: *See—*
Szabrak, Robert H., 3,450,026.
Stein, Walter: *See—*
Flachsenberg, Paul; Wuherer, Josef; and Stein, Walter,3,470,005.
Stein, Werner: *See—*
Baumann, Horst; and Stein, Werner,3,423,453.
Fischer, Hannes; and Stein, Werner,3,436,426.
Stein, Werner; Baumann, Horst; and Voss, Manfred, to Henkel & Cie G.m.b.H. Mixture of surface-active compounds and process for preparing same. 3,424,693, 1-28-69, Cl. 252-355.
Stein, Werner; Baumann, Horst; and Voss, Manfred, to Henkel & Cie., G.m.b.H. Mixture of surface-active compounds and process for preparing same. 3,424,694, 1-28-69, Cl. 252-355.
Stein, Werner; and Kittl, Hans, to Henkel & Cie. G.m.b.H. Process for the addition of bisulfite to compounds containing double bonds. 3,424,770, 1-28-69, Cl. 260-400.
Stein, Werner; and Umbach, Wilfried, to Henkel & Cie G.m.b.H. Process for the continuous preparation of addition products of propylene oxide. 3,436,425, 4-1-69, Cl. 260-613.
Stein, Werner; Weiss, Herbert; and Koch, Otto, to Henkel & Cie GmbH. Process for the manufacture of light colored surface-active sulfo fatty acid esters. 3,452,064, 6-24-69, Cl. 260-400.
Wulff, Carl; Stein, Werner; Koch, Otto; and Weiss, Herbert,3,485,856.
Stein, William, to Kohnstamm, H., & Co., Inc. Gelatinous coloring composition and process. 3,483,002, 12-9-69, Cl. 99-148.
Stein, Wolfgang J.; and Straniti, Salvatore, to Avco Corporation. Corrugated stacked-plate heat exchanger. 3,424,240, 1-28-69, Cl. 165-166.
Steinacker, Peter, to Westfalia Separator A.G. Self-cleaning centrifugal separator drum having an external piston valve. 3,462,076, 8-19-69, Cl. 233-20.
Steinbach, Gerhard. Measuring device for testing the content of fluid containers, in particular fuel tanks. 3,475,967, 11-4-69, Cl. 73-425.4
Steinbach, Hans-Horst: *See—*
Schnurrbusch, Karl; Steinbach, Hans-Horst; and Weiden, Otto,3,458,333.
Walaschewski, Engelbert; Steinbach, Hans-Horst; Oetke, Walter; and Erdmenger, Rudolf,3,423,842.
Kulling, Achim; Steinbach, Hans; and Thumm, Hans,3,457,038.
Steinbach, John F.: *See—*
Bilo, William J.; and Steinbach, John F.,3,447,975.
Steinbach-Van Gaver, Georgette, to Produits Chimiques Pechiney-Saint-Gobain. Method for preparing copolymers of sulfur dioxide and a vinyl aromatic compound. 3,448,090, 6-3-69, Cl. 260-79.3
Steinbacher, Jack Thomas, to Eaton Yale & Towne, Inc. Method and apparatus for cleaning foundry cores. 3,456,639, 7-22-69, Cl. 125-1.
Steinback, Herbert D. Radio frequency shielded switch. 3,439,298, 4-15-69, Cl. 335-5.
Steinbeck, Walter: *See—*
Kappelhoff, Hermann; Gunnerich, Max Georg; Paul, Walter; Steinbeck, Walter; and Niemeyer, Willy,3,448,666.
Steinberg, Adalbert Sussman. Articulated buckle. 3,436,794, 4-8-69, Cl. 24-188.
Steinberg, Bernard D.: *See—*
Brenner, Millard M.; and Steinberg, Bernard D.,3,443,228.
Steinberg, David H.: *See—*
Dexter, Martin; Spivack, John D.; and Steinberg, David H.,3,441,575.
Dexter, Martin; Spivack, John D.; and Steinberg, David H.,3,457,286.
Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert,3,435,065.
Steinberg, David R., to Corning Glass Works. System for measuring temperature. 3,427,881, 2-18-69, Cl. 73-339.
Steinberg, David R., to Corning Glass Works. System for measuring temperature. 3,470,743, 10-7-69, Cl. 73-340.
Steinberg, Israel V., to American Abrasive Company. Method of treating alumina abrasive grains with iron nitrate and products made thereby. 3,423,195, 1-21-69, Cl. 51-295.
Steinberg, Israel V., to Bausch & Lomb, Incorporated. Epoxy adhesive containing acrylic acid-epoxy reaction products and photosensitizers. 3,450,613, 6-17-69, Cl. 204-159.15
Steinberg, Louis A.; and Lotesto, Gabriel C. Vehicle safety apparatus. 3,471,168, 10-7-69, Cl. 280-150.
Steinberg, Samuel B. Portable filter evaluation device. 3,473,876, 10-21-69, Cl. 356-103.
Steinberg, Samuel: *See—*
Smulowitz, Joseph; and Steinberg, Samuel,3,427,553.
Steinberg, Stanley: *See—*
Silverman, Alvin J.; and Steinberg, Stanley,3,478,288.
Steinberg, Wallace H.; and Kohn, Saul R., to Johnson & Johnson. Charged effervescing agent and medicament dispensing metering valve-actuated aerosol container producing a dose of medicament and carbonation in water. 3,480,185, 11-25-69, Cl. 222-192.
Steinberger, Dora. Brassiere with cups attachable by zipper means. 3,425,420, 2-4-69, Cl. 128-460.
Steinberger, Hans; and Sauerbrunn, Irmhild. Cold storage plant. 3,486,284, 12-30-69, Cl. 52-262.
Steinberger, Josef; and Beckers, Heinz, to Forkardt, Paul, K.G. Power-operable multijaw chuck. 3,424,468, 1-28-69, Cl. 279-121.
Steinberger, Robert John: *See—*
Mayland, Bertrand J.; and Steinberger, Robert John,3,485,743.
Steinbock, Fred C., to Kendall Company, The. Carrier and carrying case for rolls of adhesive tape. 3,443,736, 5-13-69, Cl. 229-15.
Steinbock, Rolf: *See—*
Bindernagel, Ali; Kost, Erwin; and Steinbock, Rolf,3,448,773.
Steinbrech, Hermann: *See—*
Laumen, Heinrich; Steinbrech, Hermann; and Lochbuhler, Udo,3,460,227.
Steinbrecher, Lester, to Amchem Products, Inc. Phosphate coating process. 3,425,876, 2-4-69, Cl. 148-6.15
Steinbrunn, Gustav: *See—*
Dickhaeuser, Heiner; Scheuerer, Gunter; Adolphi, Heinrich; and Steinbrunn, Gustav,3,442,984.
Steinbrunner, Arthur A.: *See—*
Huyvaert, Robert H.; and Steinbrunner, Arthur A.,3,456,323.
Steindler, Martin J.; and Jonke, Albert A., to United States of America, Atomic Energy Commission. Plutonium tetrafluoride preparation and separation by sorption on sodium fluoride. 3,423,190, 1-21-69, Cl. 23-326.
Steindler, Martin J.: *See—*
Riha, James G.; Trevorrow, La Verne E.; and Steindler, Martin J.,3,458,291.
Trevorrow, La Verne E.; Gerding, Thomas J.; and Steindler, Martin J.,3,482,949.
Steinemann, Samuel; and Tschudin, Oswald, to Institut Dr. Ing. Reinhard Straumann A.G. Pawl and ratchet mechanism driven by vibratory means. 3,469,462, 9-30-69, Cl. 74-142.

Steiner American Corporation: *See—*
Bahmsen, Erwin B., 3,479,746.
Bahnsen, Erwi B., 3,458,879.
Bahnsen, Erwin B., 3,439,365.
Bahnsen, Erwin B., 3,487,468.
Steiner, Daniel J.; and Schneider, Cyril J., to Giddings & Lewis, Inc. Method and apparatus for controlling the motion of a reciprocable tool element or the like. 3,475,998, 11-4-69, Cl. 77-32.7
Steiner, Eginhard; and Biedermann, Walter, to Geigy, J. R., A.G. Mixed chromium-containing dyestuffs containing a monoazo and a disazo dyestuff. 3,459,727, 8-5-69, Cl. 260-145.
Steiner, Johann. Shaped handle for straight and angular tool holders. 3,457,683, 7-29-69, Cl. 51-170.
Steiner, John C.: *See—*
Duryee, Harry I.; and Steiner, John C.,3,445,910.
Steiner, John E.: *See—*
Dewez, Fernand J., Jr.; and Steiner, John E.,3,467,808.
Steiner, Karl Ulrich: *See—*
Pfister, Xaver; and Steiner, Karl Ulrich,3,428,637.
Steiner, Klaus: *See—*
Himmelheber, Max; and Steiner, Klaus,3,447,996.
Steiner, Lajos, 1/2 to Shaw, Robert F. Mechanical clamping means. 3,438,660, 4-15-69, Cl. 287-52.04
Steiner Roger H.: *See—*
Magruder, William R.; Sixt, Marty E.; and Steiner Roger H.,3,448,648.
Steiner, Wilford L.: *See—*
Evans, Donald C.; and Steiner, Wilford L.,3,472,469.
Steiner, Wilford L. Electron image correlation tube with dual storage screens. 3,423,624, 1-21-69, Cl. 315-11.
Steiner, Wilford L., to Goodyear Aerospace Corporation. Electron image correlator tube. 3,424,937, 1-28-69, Cl. 315-10.
Steiner, Wilford L., to Goodyear Aerospace Corporation. Electronic area correlator tube. 3,430,092, 2-25-69, Cl. 315-10.
Steiner, William A.; and Parsons, John S., to Stanley Works, The. Method of making a hinge assembly. 3,451,124, 6-24-69, Cl. 29-527.1
Steinert, Kurt, to Schmidt, Karl Heinz. Fork lift truck having a lifting device mounted for pivotal movement about a vertical pivotal axle. 3,445,019, 5-20-69, Cl. 214-671.
Steinert, Richard M.: *See—*
Matt, Albert R., Jr.; and Steinert, Richard M.,3,476,107.
Steinert, Thomas M.: *See—*
Manz, August F.; and Steinert, Thomas M.,3,459,919.
Steinfatt, Fritz: *See—*
Klesper, Herbert; Steinfatt, Fritz; Langheinrich, Klaus; and Lorenz, Walter,3,471,576.
Steingas, Richard R.: *See—*
Gaul, Edward M.; and Steingas, Richard R.,3,466,857.
Pool, Stuart D.; and Steingas, Richard R.,3,430,425.
Pool, Stuart D.; and Steingas, Richard R.,3,479,806.
Steingas, Richard R., to International Harvester Company. Protective device for rotary cutters. 3,485,021, 12-23-69, Cl. 56-295.
Steingas, Richard R.; and Gaul, Edward M., to International Harvester Company. Mobile shaker and harvesting machine. 3,486,316, 12-30-69, Cl. 56-329.
Steingas, Richard R.; and Meitl, Harold G., to International Harvester Company. Harvesting machine. 3,452,526, 7-1-69, Cl. 56-328.
Steingas, Richard R.; and Reynolds, John F., to International Harvester Company. Fruit handling apparatus. 3,452,527, 7-1-69, Cl. 56-328.
Steingroever, Erich, to Magnetfabrik Bonn G.m.b.H. vorm. Gewerkschaft Windhorst. Magnetic suspension system. 3,428,370, 2-18-69, Cl. 308-10.
Steingroever, Erich. Magnetic thickness gauge having shielded magnet. 3,440,527, 4-22-69, Cl. 324-34.
Steingroever, Erich, to Magnetfabrik Bonn GmbH., vorm Gewerkschaft Windhorst. Diamagnetic body. 3,447,842, 6-3-69, Cl. 308-10.
Steingruebner, Arthur. Method for making spiral-shaped continuous rows of slide fastener elements. 3,445,560, 5-20-69, Cl. 264-281.
Steinhagen, Hrst G.: *See—*
Krawczyk, Henryk S.; and Steinhagen, Hrst G.,3,425,293.
Steinhausen, Heimut, to Titangesellschaft m.b.H. Process for automatically regulating the reduction of the iron and titanium values in a digestion liquor. 3,486,847, 12-30-69, Cl. 23-117.
Steinhausen, Walter; Jager, Albert; Boroschewski, Gerhard; Peissker, Horst; and Arndt, Horst, to Schering A.G. Pesticidal preparations and method thereof. 3,484,526, 12-16-69, Cl. 424-300.
Steinhauser, Carroll: *See—*
O'Donnell, Charles L., 3,429,345.
Steinhelper, John E., Jr., to Bendix Corporation, The. Method of joining two surfaces. 3,461,458, 8-12-69, Cl. 29-494.
Steinhoff, William L.: *See—*
Patinkin, Seymour H.; Kirk, James H.; and Steinhoff, William L.,3,445,205.
Steinholtz, Gosta; and Aronsson, Bo, to Aktiebolaget Svenska Flaktfabriken. Advancing a filter mat in a roll filter. 3,438,588, 4-15-69, Cl. 242-55.1
Steiniger, George W.: *See—*
Spurr, Eugene V.; Walker, Robert R.; and Steiniger, George W.,3,469,425.
Steiniger, George W., to Allegheny Ludlum Steel Corporation. Apparatus for removing dents from tubing and similar articles. 3,466,921, 9-16-69, Cl. 72-393.
Steinitz, Robert, to General Telephone & Electronics Laboratories, Incorporated. Elements for incandescent devices. 3,441,777, 4-29-69, Cl. 313-311.
Steinkamp, Johann: *See—*
Kurzl, Albert; and Steinkamp, Johann,3,460,074.
Steinkamp, John O., to Ford Motor Company. Tractor mounted loader. 3,447,708, 6-3-69, Cl. 214-775.
Steinkamp, Keith J.; and Terzic, Brant, to K W Battery Company, mesne. Protective device. 3,475,061, 10-28-69, Cl. 307-130.
Steinke, Frank D.: *See—*
Saunders, Myron G.; and Steinke, Frank D.,3,468,089.
Steinke, James M., to National Cash Register Company, The. Mechanism for producing intermittent rotary motion. 3,433,084, 3-18-69, Cl. 74-84.
Steinke, James M., to National Cash Register Company, The. Intermittent rotary motion transmission. 3,452,613, 7-1-69, Cl. 74-393.
Steinke, James M., to National Cash Register Company, The. Two-cycle transmission with adjustable velocity profile. 3,475,976, 11-4-69, Cl. 74-63.
Steinke, James M., to National Cash Register Company, The. Rotary step mechanism. 3,475,977, 11-4-69, Cl. 74-66.
Steinke, Leo; Sohner, Gerhard; Hurst, Kurt; Gerber, Richard; Frimmel, Karl; and Herrmann, Otto, to Bosch, Robert, G.m.b.H. Piezoelectric igniter. 3,486,075, 12-23-69, Cl. 317-81.
Steinke, Leo; and Wiest, Wilhelm, to Bosch, Robert, GmbH. Piezoelectric igniter for gaseous fuels or the like. 3,457,461, 7-22-69, Cl. 317-81.
Steinkoenig, Roland P.: *See—*
Urbanowski, Richard L.; and Steinkoenig, Roland P.,3,440,258.
Steinkopf, Wolfgang, to U.S. Philips Corporation, mesne. Circuit arrangement for producing a dissymetrical switching signal in a NTSC-PAL conversion system. 3,449,510, 6-10-69, Cl. 178-5.4
Steinmair, Karl, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Blowing device for a converter assembly. 3,458,180, 7-29-69, Cl. 266-34.
Steinman, Charles. Surgical binder. 3,442,270, 5-6-69, Cl. 128-540.
Steinmann, Emil G. Stop drip. 3,467,967, 9-23-69, Cl. 4-68.
Steinmayer, Alwin G., to McGraw-Edison Company. Underground distribution transformer. 3,482,108, 12-2-69, Cl. 307-17.
Steinmetz, Andre: *See—*
Botton, Roger; and Steinmetz, Andre,3,446,589.
Botton, Roger; and Steinmetz, Andre,3,471,256.
Steinmetz, Gunther: *See—*
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,570.
Breig, Kurt; Blum, Walter; Muller, Gerd; Raab, Hans; and Steinmetz, Gunther,3,485,571.
Steinmetz, Ib, to Great Canadian Oil Sands Limited. Coking a mixture of tar sands and froth product. 3,466,240, 9-9-69, Cl. 208-11.
Steinmetz, John J., Jr., to Westinghouse Electric Corporation. Interlocking multiple electrical contact structure for compression bonded power semiconductor devices. 3,441,814, 4-29-69, Cl. 317-234.
Steinmetz, John J., Jr.; Ferree, Herbert E.; and Nowalk, Thomas P., to Westinghouse Electric Corporation. Electrical contact assembly for compression bonded electrical devices. 3,463,976, 8-26-69, Cl. 317-235.
Steinmetz, Rolland J.: *See—*
Kearns, Norvan O.; and Steinmetz, Rolland J.,3,433,520.
Steinmetz, Walter E., to El Paso Products Company. Production of alpha, omega-diamines. 3,422,145, 1-14-69, Cl. 260-585.
Steinmetz, Walter E., to El Paso Products Company. Ammonolysis of halides. 3,450,765, 6-17-69, Cl. 260-585.
Steinmetz, Walter E., to El Paso Products Company. Ammonolysis of 1,6-dihalohexane. 3,450,766, 6-17-69, Cl. 260-585.
Steinmetz, Werner: *See—*
Nagel, Ernst; and Steinmetz, Werner,3,464,078.
Steinmeyer, Gerhard: *See—*
Modrey, Henry John; and Steinmeyer, Gerhard,3,448,894.
Steinmuller, L. & C., G.m.b.H.: *See—*
Jung, Richard, 3,451,565.
Jung, Richard, 3,460,722.
Jung, Richard; and Gottesleben, Hilmar, 3,471,063.
Knizia, Klaus, 3,420,212.
Knizia, Klaus, 3,423,933.
Knizia, Klaus, 3,470,853.
Schenck, Hermann; and Wenzel, Werner, 3,431,594.
Steins, Henry. Piemaking machine. 3,433,181, 3-18-69, Cl. 107-1.
Steins, Karlfried, to Cable Belt Limited. Rope driven belt conveyors. 3,424,296, 1-28-69, Cl. 198-191.
Steinthal, Augustus J., to Steinthal, M., & Co., Inc. Inflatable sailing jacket. 3,441,963, 5-6-69, Cl. 9-314.
Steinthal, M., & Co., Inc.: *See—*
Jantzen, George H., 3,429,537.
Jantzen, George H., 3,431,606.

Jantzen, George H., 3,439,933.
Jantzen, George H., 3,439,952.
Sepp, Oscar W., 3,429,531.
Sepp, Oscar W., 3,429,532.
Sepp, Oscar W., Jr., 3,449,995.
Steinthal, Augustus J., 3,441,963.

Steintveit, Georg, to Det Norske Zinkkompani A/S. Process for the separation of iron from metal sulphate solutions and a hydrometallurgic process for the production of zinc. 3,434,947, 3-25-69, Cl. 204-119.

Steiro, Harry. Multiple duct concrete pipe. 3,429,343, 2-25-69, Cl. 138-155.

Steisslinger, Kurt: *See*—
Ettischer, Helmut; and Steisslinger, Kurt,3,481,260.
Lieser, Ernst; Simon, Horst; Mueller, Edwin; and Steisslinger, Kurt,3,433,143.
Lieser, Ernst; Steisslinger, Kurt; and Magnus, Oswin,3,470,801.

Steisslinger, Kurt; and Simon, Horst, to Eastman Kodak Company. Film winding and rewinding device. 3,423,041, 1-21-69, Cl. 242-71.6

Steketee, Cornelis J. Sowing element for a precision sowing machine. 3,443,531, 5-13-69, Cl. 111-36.

Stekly, Zdenek J. J.: *See*—
Bernert, Robert E.; Hatch, Albert M.; and Stekly, Zdenek J. J.,3,427,391.

Stella, Anthony J.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,458,851.

Stella, Donald F.: *See*—
Schoch, Thomas J.; Stella, Donald F.; and Wolfmeyer, Howard J.,3,446,628.

Stella, Leo, to General Motors Corporation. Seal. 3,455,615, 7-15-69, Cl. 308-187.1

Stella, Pietro. Tap of the built-in type. 3,439,701, 4-22-69, Cl. 137-359.

Stellar Engineering, Inc.: *See*—
Lotti, Louis B., 3,438,246.
Lotti, Louis B.; and Bates, Donald W., 3,438,247.

Stellwagen, Frank William, to General Time Corporation. Synchronous timer motors. 3,469,131, 9-23-69, Cl. 310-162.

Stelmach, George A., to Blaw-Knox Company. Controlled feed system. 3,478,626, 11-18-69, Cl. 82-14.

Stelmakh, Viktor Alexeevich: *See*—
Boborykin, Jury Alexandrovich; Kononenko, Vadim Grigorievich; Dadykin, Georgy Fedetovich; Levkin, Dmitry Dmitrievich; Pravdin, Viktor Sergeevich; Stelmakh, Viktor Alexeevich; Fulmakht, Veniamin Veniaminovich; Schekochikhin, Serafim Vasilievich; and Pikhtovnikov, Rostislav Vyacheslavovich,3,466,960.

Stelovich, Joseph J. Scaffold structure. 3,464,518, 9-2-69, Cl. 182-120.

Stelting, Raymond B., to Hewlett-Packard Company. Termination for an ultrasonic transducer. 3,475,633, 10-28-69, Cl. 310-8.0

Steltz, Douglas C. Low voltage conversion unit. 3,474,469, 10-28-69, Cl. 4-178.

Steltzer, Ernest R.; Nitsch, Edward J.; and Stube, Fred F., to Dietz, R. E., Company. Buoy light. 3,443,085, 5-6-69, Cl. 240-10.66

Stelux Manufacturing Co., Ltd.: *See*—
Meng, Ng Chue, 3,425,214.

Stelwagen, Jan: *See*—
Barnish, Philip; Stelwagen, Jan; and Werkman, Thijs Willem,3,452,803.

Stelwagen, Willem. Apparatus for heat-treating travelling threadlike products. 3,441,993, 5-6-69, Cl. 28-62.

Stelwagen, Willem; and Hoekstra, Jan J. J., to American Enka Corporation. Apparatus for guiding a plurality of threads onto a thread package. 3,461,518, 8-19-69, Cl. 28-32.

Stelzer, Raymond F., to Wagner Electric Corporation. Control valve. 3,435,844, 4-1-69, Cl. 137-522.

Stelzer, Raymond F., to Wagner Electric Corporation. Control valve. 3,439,139, 4-15-69, Cl. 200-82.

Stelzer, William: *See*—
Keller, Ted G.; and Stelzer, William,3,468,045.

Stelzer, William, to Kelsey-Hayes Company. Pressure proportioning valve. 3,423,936, 1-28-69, Cl. 60-54.5

Stelzer, William, to Kelsey-Hayes Company. Brake failure indicator. 3,480,333, 11-25-69, Cl. 303-6.

Stemke, Henry F., to Peterson Enterprises, Incorporated. Bidirectional film printing apparatus. 3,458,256, 7-29-69, Cl. 355-88.

Stemmerman, Paul Edward; Waschek, Arvid Gayle; and Moon, Seaton, to Deere & Company. Power operated swinging drawbar. 3,487,448, 12-30-69, Cl. 280-468.

Stemmler, Kurt, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei K.G. Apparatus for drawing bags, envelopes and the like. 3,448,977, 6-10-69, Cl. 271-5.

Stempel, Arthur: *See*—
Hellerbach, Joseph; Stempel, Arthur; and Sternbach, Leo Henryk,3,475,415.

Stempel, Arthur; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 4,1,5-Benzoxadiazocin-2-ons and processes for preparing same. 3,420,817, 1-7-69, Cl. 260-239.3

Stempel, Arthur; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 2-Dihalo lower alkyl-4-phenylquinazoline 3-oxide. 3,453,279, 7-1-69, Cl. 260-251.

Stempel, Arthur; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc.2'-Enzoyl-2,2-dihaloacetanilide oxime. 3,453,326, 7-1-69, Cl. 260-562.
Sternbach, Leo Henryk; and Stempel, Arthur,3,450,695.
Sternbach, Leo Henryk; Saucy, Gabriel; Sach, George Sidney; and Stempel, Arthur,3,455,985.

Sten, Arne O., to Pharmacia Fine Chemicals AB. Method for the separation of substances of different molecular sizes from a solution of said substances in a solvent. 3,467,595, 9-16-69, Cl. 210-26.

Stenberg-Flygt AB: *See*—
Carlsson, Konrad Valdemar, 3,443,813.
Carlstedt, Sven Borje Fredrik, 3,466,978.
Englesson, Sixten, 3,433,162.
Sandgren, Jan Erik, 3,467,833.

Stenby, Walter H. Announcing indicator for continuous readout of different variables. 3,440,358, 4-22-69, Cl. 179-100.1

Stencel Aero Engineering Corporation: *See*—
Stencel, Fred B., 3,423,054.
Stencel, Fred B.; and Britton, Thomas M., Jr., 3,447,769.

Stencel, Fred B., to Stencel Aero Engineering Corporation. Ballistically spread multiple canopy parachute apparatus. 3,423,054, 1-21-69, Cl. 244-149.

Stencel, Fred B.; and Britton, Thomas M., Jr., to Stencel Aero Engineering Corporation. Parachute spreading gun. 3,447,769, 6-3-69, Cl. 244-149.

Stendel, Wilhelm: *See*—
Fest, Christa; Hammann, Ingeborg; Stendel, Wilhelm; and Flucke, Winfried,3,478,037.

Stender, Carl H. Pumping equipment and operating mechanism. 3,443,521, 5-13-69, Cl. 103-38.

Stender, Orville J., to Conlon-Moore Corporation. Method of casting metals using permanent molds. 3,451,464, 6-24-69, Cl. 164-137.

Stene, Manfred: *See*—
Evans, David M.; and Stene, Manfred,3,432,780.

Stenerson, Randolph N., to Carrier Corporation. Brazing method employing fused glass matrix preform. 3,465,422, 9-9-69, Cl. 29-500.

Stengel, Edgar, to AEG-Elotherm G.m.b.H. Transfer mechanism for removing workpieces from a tank filled with liquid. 3,446,375, 5-27-69, Cl. 214-130.

Stengel, Edgar: *See*—
Reinke, Friedhelm; and Stengel, Edgar,3,441,703.
Seulen, Gerhard; Reinke, Friedhelm; and Stengel, Edgar,3,441,701.

Stengel, Heinz William. Apparatus for dental models. 3,478,428, 11-18-69, Cl. 32-11.

Stengel, James L.; and Lewis, Neil D. Pocket billiard table. 3,438,629, 4-15-69, Cl. 273-6.

Stengel, Leonard A.: *See*—
Abbott, Richard L.; and Stengel, Leonard A.,3,475,153.

Stenger, Hans G., to American Can Company, mesne. Process for forming plastic containers. 3,432,586, 3-11-69, Cl. 264-94.

Stenger, Hans G., to American Can Company, mesne. Apparatus for making hollow plastic objects. 3,466,702, 9-16-69, Cl. 18-5.

Stenger, Heinrich; and Wilimzig, Herbert, to Siemens Aktiengesellschaft. Electrical amplifier with compensating circuit for measuring purposes, particularly for electro- cardiographs. 3,476,103, 11-4-69, Cl. 128-2.06

Stenger, Herbert; Strossner, Manfred; and Wendler, Friedrich, to Siemens Aktiengesellschaft. Powder suction device. 3,442,454, 5-6-69, Cl. 239-85.

Stenger, Vernon A.; and Van Hall, Clayton E., to Dow Chemical Company, The. Method and apparatus for determining the inorganic carbon content in a liquid. 3,459,938, 8-5-69, Cl. 250-43.5

Stenger, Vernon A.; and Vanhall, Clayton E., to Dow Chemical Company, The. Method and apparatus for determining the oxygen demand of oxidizable materials. 3,421,856, 1-14-69, Cl. 23-230.

Stengle, Edward J., Jr., to Owens-Illinois, Inc. Method of assembling a composite container. 3,438,116, 4-15-69, Cl. 29-447.

Stengle, Edward J., Jr., to Owens-Illinois, Inc. Organopolysiloxane composition. 3,457,221, 7-22-69, Cl. 260-46.5

Stengle, Edward J., Jr., to Owens-Illinois, Inc. Polyamide-modified organopolysiloxane composition. 3,457,323, 7-22-69, Cl. 260-826.

Stengle, Edward J., Jr., to Owens-Illinois, Inc. Organopolysiloxane composition containing an organic acid and a polyamide. 3,487,122, 12-30-69, Cl. 260-826.

Stenklyft, Gerald H.: *See*—
Cummins, Donald L.; and Stenklyft, Gerald H.,3,456,182.

Stenocord Corporation: *See*—
Boston, George Louis, 3,485,954.

Stensaker, Lee A., to Signode Corporation. Friction-fusion strap sealing. 3,442,735, 5-6-69, Cl. 156-73.

Stensaker, Lee A.; Heymann, Seymour E.; Young, Hobart P.; and Vilcins, Ilmar J., to Signode Corporation. Friction-fusion strap sealing. 3,442,732, 5-6-69, Cl. 156-73.
Stenseth, Raymond E.: *See—*
Baker, Joseph W.; and Stenseth, Raymond E.,3,429,916.
Baker, Joseph W.; and Stenseth, Raymond E.,3,457,306.
Baker, Joseph W.; Groenweghe, Leo C. D.; and Stenseth, Raymond E.,3,457,305.
Stenstrom, Lennart Arvid, to U.S. Philips Corporation. Low friction bearing and support arrangement. 3,475,063, 10-28-69, Cl. 308-2.
Stentz, Blair E., to United Service Equipment Co., Inc. Self-leveling lifter. 3,454,319, 7-8-69, Cl. 312-71.
Stenudd, Even Gunnar Walter: *See—*
Ek, Birger Henrik; and Stenudd, Even Gunnar Walter,3,478,629.
Stenzel, Richard W. Electrofilter. 3,445,376, 5-20-69, Cl. 204-302.
Stenzler, Gerald. Personal ornament with mounting and indexing means for centering varied numbers of jewel settings. 3,483,716, 12-16-69, Cl. 63-15.
Stepan Chemical Company: *See—*
Harris, Robert M.; Knaggs, Edward A.; and Yeager, John A., 3,459,559.
Stepanek, Karel; and Burda, Laidslav, to Adamovske Strojirny narodni Podnik. Mechanical control structure. 3,456,523, 7-22-69, Cl. 74-479.
Stepanek, William D.: *See—*
Kerr, Edwin R.; Ware, Charles H., Jr.; and Stepanek, William D.,3,429,941.
Stepanov, Nikolai Pavlovich: *See—*
Butaev, Filipp Ivanovich; Klimov, Nikolai Semenovich; Pertsev, Alexei Alexandrovich; Stepanov, Nikolai Pavlovich; Shemaev, Alexandr Mikhailovich; and Shkolin, Ilya Dmitrievich,3,437,863.
Stepanski, Theodore J.: *See—*
Holroyd, Frank Edward; and Stepanski, Theodore J.,3,433,492.
Stephan, Alain Maurice Joseph, to Societe Industrielle Bull-General Electric (Societe Anonyme). Reels for carrying inked ribbons in printing machines. 3,430,884, 3-4-69, Cl. 242-74.
Stephan Chemical Company: *See—*
Knaggs, Edward A.; Nussbaum, Marvin L.; and Fischer, Elias, 3,433,745.
Knaggs, Edward A.; and Fischer, Elias, 3,433,746.
Stephan, John T.: *See—*
Golick, Alexander J.; and Stephan, John T.,3,444,109.
Stephan, John Thomas. Plywood adhesive and process of forming same. 3,440,071, 4-22-69, Cl. 106-154.
Stephan, Karl, to Mannesmann Aktiengesellschaft. Method of conveying very large heat convection to boiling liquids. 3,445,627, 5-20-69, Cl. 219-271.
Stephan, Robert E. Photoelectric garage door closer serving to close door only after light beam has been broken and re- established. 3,430,052, 2-25-69, Cl. 250-214.
Stephan, Rudolf: *See—*
Richtzenhain, Hermann; and Stephan, Rudolf,3,445,532.
Stephani, Charles J. Ignition cutoff switch. 3,480,840, 11-25-69, Cl. 200-61.90
Stephanoff, Nicholas N., to Fluid Energy Processing & Equipment Company. Apparatus for treating solid granular material. 3,456,887, 7-22-69, Cl. 241-39.
Stephanoff, Nicholas N., to Fluid Energy Processing & Equipment Company. Fluid energy grinding method and means. 3,467,317, 9-16-69, Cl. 241-5.
Stephans, Robert W.: *See—*
Zysk, Edward D.; Osovitz, Eugene E.; and Stephans, Robert W.,3,451,859.
Stephansen, Erik W.: *See—*
Schreiber, Henry; Goerz, David J., Jr.; Hankin, Jerome W.; and Stephansen, Erik W.,3,449,836.
Stephen, Alexander & Sons Limited: *See—*
Wheeler, Kenneth J., 3,474,924.
Stephen, Arulanandasami Joseph; and Arulanandasami, Sinnappa Adaikalam. Electric shock control device. 3,435,292, 3-25-69, Cl. 317-18.
Stephen, Charles G.: *See—*
Henderson, Eddie M.; and Stephen, Charles G.,3,446,140.
Stephen, George A.Boatswain's chair. 3,484,833, 12-16-69, Cl. 297-390.
Stephen, R. A., & Company: *See—*
Bryer, Robert George, 3,459,940.
Stephen, William Elliot: *See—*
Eckersley, Dennis; and Stephen, William Elliot,3,426,018.
Stephens, Allan: *See—*
Gabbitus, Derek; Stephens, Allan; Brebner, James; and Lee, Anthony Michael,3,430,427.
Stephens, Bernard B.; and Conder, Robert L., to Dow Chemical Company, The. Extractor. 3,457,048, 7-22-69, Cl. 23-272.6
Stephens, Charles R., Jr.; and Allingham, Robert P., to Pfizer, Chas. & Co., Inc. 2-Ethylpyromeconic acid as an aroma enhancer for perfumes. 3,440,183, 4-22-69, Cl. 252-94.
Stephens, Charles R., Jr.; and Allingham, Robert P., to Pfizer, Chas., & Co., Inc. 2-Ethylpyromeconic acid as an aroma and flavor enhancer. 3,446,629, 5-27-69, Cl. 99-140.
Stephens, Curtis Wayne. Du Pont de Nemours, E. I., and Company Polyamides of the recurring unit. 3,472,819, 10-14-69, Cl. 260-78.
Stephens, David G.; and Powell, Clemans A., Jr., to United States of America, National Aeronautics and Space Administration. Instrument for measuring the dynamic behavior of liquids. 3,473,379, 10-21-69, Cl. 73-301.
Stephens, Frederick Allen; and Hurst, Arthur, said Stephens assor to British Needle Company Ltd., The. Teats for infants' feeding bottles. 3,432,059, 3-11-69, Cl. 215-11.
Stephens, Frederick N.; and Burhans, Stuart J., to Stephens Industries, Inc. Inventory control device. 3,458,716, 7-29-69, Cl. 307-116.
Stephens, Frederick N.; and Krug, Charles C., to Stephens Industries, Inc. Apparatus for automatically dispensing tags and applying glue thereto. 3,426,726, 2-11-69, Cl. 118-2.
Stephens, George R., to Food Products, Inc. Method of cleaning air supply systems and ducts. 3,485,671, 12-23-69, Cl. 134-7.
Stephens, Harold C.: *See—*
Johnson, James L.; and Stephens, Harold C.,3,470,399.
Stephens Industries, Inc.: *See—*
Stephens, Frederick N.; and Krug, Charles C., 3,426,726.
Stephens, Frederick N.; and Burhans, Stuart J., 3,458,716.
Stephens, James A., Jr.: *See—*
May, James L.; Stephens, James A., Sr.; and Stephens, James A., Jr.,3,473,705.
Stephens, James A., Sr.: *See—*
May, James L.; Stephens, James A., Sr.; and Stephens, James A., Jr.,3,473,705.
Stephens, James B.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,390.
Stephens, James R., to Standard Oil Company (Indiana). Method of coating magnet wire with a polytrimellitamide. 3,451,848, 6-24-69, Cl. 117-213.
Stephens, Joe Baron, to AMBAC Industries, Incorporated. Ignition system safety circuit for internal combustion engines and the like. 3,421,368, 1-14-69, Cl. 73-117.3
Stephens, Joe Baron, to AMBAC Industries, Incorporated. Ignition system and magneto therefor. 3,461,851, 8-19-69, Cl. 123-149.
Stephens, Joe B., to AMBAC Industries, Incorporated. Pulse generating apparatus. 3,452,730, 7-1-69, Cl. 123--148
Stephens, Joe F., to General Electric Company. Electric discharge device having a tubular anode lead terminating in a plurality of spaced projections formed integrally with said lead and secured to the anode by percussive welds. 3,444,417, 5-13-69, Cl. 313-331.
Stephens, Joe F.; and Wilson, Dan M., to General Electric Company. High voltage discharge tube with a reentrant type anode terminal. 3,456,147, 7-15-69, Cl. 313-247.
Stephens, John H., to Universal Oil Products Company. Separation process. 3,430,768, 3-4-69, Cl. 210-83.
Stephens, John T., to Steber Corporation. Irradiated tobacco process and product. 3,472,237, 10-14-69, Cl. 131-121.
Stephens, Kenneth D., Jr., to Electronic Research Corporation, mesne. Projection system for enhanced sequential television display. 3,485,944, 12-23-69, Cl. 178-5.4
Stephens, Richard Russell, to Amalgamated Dental Company Limited, The. Multi-dosage jet injector. 3,425,413, 2-4-69, Cl. 128-173.
Stephens, Robert A. Inflatable water-fowl decoy. 3,460,283, 8-12-69, Cl. 43-3.
Stephens, Robert K.: *See—*
Bloom, Stanley M.; and Stephens, Robert K.,3,443,939.
Stephens, Robert M. Air-waterborne vessels. 3,481,296, 12-2-69, Cl. 114-67.
Stephens, Robert William. Paint type can and attachment. 3,428,213, 2-18-69, Cl. 220-90.
Stephens, Roger C., to Dresser Industries, Inc. Hanger structure. 3,431,693, 3-11-69, Cl. 52-485.
Stephens, Ruth E., to Ethyl Corporation. Oxidation catalysts. 3,425,792, 2-4-69, Cl. 23-2.
Stephens, Ruth E., to Ethyl Corporation. Neodymium oxide catalyst compositions. 3,483,138, 12-9-69, Cl. 252-462.
Stephens, Ruth E.; Hirschler, Daniel A., Jr.; and Lamb, Frances W., to Ethyl Corporation. Oxidation catalysts. 3,433,581, 3-18-69, Cl. 23-2.
Stephens, Ruth E.; Hirscler, Daniel A., Jr.; and Lamb, Frances W., to Ethyl Corporation. Oxidation catalysts. 3,447,893, 6-3-69, Cl. 23-2.
Stephens, Ruth E.: *See—*
Griffing, Margaret E.; Lamb, Frances W.; and Stephens, Ruth E.,3,449,063.
Reitmeier, Ronald E.; Hirschler, Daniel A., Jr.; Lamb, Frances W.; and Stephens, Ruth E.,3,428,573.
Stephens, Vernon E. Cleaning tool. 3,445,878, 5-27-69, Cl. 15-104.1
Stephens, William I., to Art Metal-Knoll Corporation. Furniture construction. 3,450,435, 6-17-69, Cl. 297-446.

Stephens, William J.: *See—*
Wilde, Leon G.; Szczur, Albert; and Stephens, William J.,3,451,438.
Stephens, William T.: *See—*
Randa, Gerald; and Stephens, William T.,3,479,963.
Stephens, William T.; and Prevallet, David N., to Borg-Warner Corporation. Hydraulic transmission system. 3,446,020, 5-27-69, Cl. 60-52.
Stephens-Adamson Mfg. Co.: *See—*
Moore, Chester C., 3,464,301.
Renner, Elmer J., 3,468,418.
Stephensn, Oliver: *See—*
Petrow, Vladimir; Stephensn, Oliver; and Wild, Anthony Musgrave,3,462,483.
Stephenson, Arthur R.: *See—*
Harbard, Edward H.; and Stephenson, Arthur R.,3,424,824.
Patchell, Albert George; Lloyd, Ronald; and Stephenson, Arthur Ripon,3,441,638.
Stephenson, Barbera W. Kitchen calculator and method for use. 3,436,012, 4-1-69, Cl. 235-61.
Stephenson, Ben S.: *See—*
Thompson, Richard A., 3,421,218.
Stephenson, Carl R. Partition wall construction. 3,453,789, 7-8-69, Cl. 52-122.
Stephenson, Constantine Dean. Bunker-Ramo Corporation, The Contact retention device. 3,477,061, 11-4-69, Cl. 339-59.
Stephenson, Edward Luther. Processes for preparation of a chick growth factor from fish solubles and the resulting product. 3,421,900, 1-14-69, Cl. 99-7.
Stephenson, Henry W. Buoyant fenders. 3,464,213, 9-2-69, Cl. 61-46.
Stephenson, Homer E.: *See—*
Norman, Robert H.; and Stephenson, Homer E.,3,454,785.
Stephenson, Jack G.; and Abbott, Robert E., to Halliburton Company. Draft gear train action control system. 3,451,561, 6-24-69, Cl. 213-8.
Stephenson, Kenrick: *See—*
Vogelman, Joseph Herbert; Stephenson, Kenrick; and Feinerman, Bernard,3,476,882.
Stephenson, Kermit Q.; and Click, Larry S., to Battelle Development Corporation, The, mesne. Transplanter mulcher. 3,460,493, 8-12-69, Cl. 111-3.
Stephenson, Norman: *See—*
Richards, Edward Gordon; Ward, David Marshall; Hales, Keith John; and Stephenson, Norman,3,479,157.
Stephenson, Oliver: *See—*
Lester, Michael George; Stephenson, Oliver; and Petrow, Vladimir,3,463,776.
Stephenson, R. Rhoads: *See—*
Shih, Cheng; Parr, Elmer D.; Stephenson, R. Rhoads; and Talaat, Mostafa E.; said,3,423,610.
Stephenson, Robert James: *See—*
Roberts, Brinley; and Stephenson, Robert James,3,480,570.
Stephenson, Robert James, to Monsanto Chemicals Limited. Flame retarding agents. 3,465,031, 9-2-69, Cl. 260-484.
Stephenson, Robert W.: *See—*
Reinhart, Richard D.; and Stephenson, Robert W.,3,458,321.
Stephenson, William W., Jr. Centrifugal fan having inlet quide baffle. 3,480,202, 11-25-69, Cl. 230-127.
Stepp, James D., to Chemetron Corporation, mesne. Pyridylene and substituted phenylene derivatives of phthalocyanine pigments. 3,458,517, 7-29-69, Cl. 260-270.
Stepp, Lowell G. Automatic truck body cover. 3,481,645, 12-2-69, Cl. 296-105.
Stepp, Thomas B., to Bell Aerospace Corporation. Jet pump. 3,423,011, 1-21-69, Cl. 230-112.
Steppan, Hartmut; Erdmann, Fritz; Messwarb, Gunter; and Luders, Walter, to Kalle Aktiengesellschaft. Light-sensitive polyether reproduction layer. 3,484,239, 12-16-69, Cl. 96-35.1
Steppan, Hartmut: *See—*
Uhlig, Fritz; Lind, Erwin; and Steppan, Hartmut,3,438,778.
Steppon, William J., to Ryerson & Haynes, Inc. Method of manufacturing jack element. 3,436,947, 4-8-69, Cl. 72-339.
Steptoe, Brian John; Hawgood, David; and Ties, Sidney, to International Computers and Tabulators Limited. Method for moulding fluid-operated control devices. 3,459,847, 8-5-69, Cl. 264-219.
Stepura, Raymond M.: *See—*
Banes, Nathan M.; Feehan, John D.; and Stepura, Raymond M.,3,444,486.
Steranko, James J., to International Business Machines Corporation. Method of forming an interconnecting multi- layer circuitry. 3,465,435, 9-9-69, Cl. 29-628.
Sterbach, Leo Henryk: *See—*
Brust, Bernard; Fryer, Rodney Ian; and Sterbach, Leo Henryk,3,420,836.
Stereo Dishwashing Machine Manufacturing Company: *See—*
Noren, Tore H., 3,457,958.
Sterer Engineering and Manufacturing Company: *See—*
Garman, Robert A., 3,455,320.
Monnich, Carl Eugene, 3,424,429.
Sterflinger, Ludwig: *See—*
Back, Frank G.; and Sterflinger, Ludwig,3,424,514.
Sterile Products Corporation: *See—*
Holt, Herman, 3,429,433.
Sterilon Corporation: *See—*
Vitello, John P.; and Bascobert, Rene F., 3,437,117.
Sterling Drug Inc.: *See—*
Aceto, Mario D.; Harris, Louis C.; Lands, Alonzo M.; and Alexander, Ernest John, 3,485,873.
Ackerman, James H., 3,452,084.
Archer, Sydney, 3,466,287.
Archer, Sydney, 3,468,890.
Archer, Sydney, 3,472,853.
Archer, Sydney, 3,472,854.
Archer, Sydney, 3,472,855.
Archer, Sydney, 3,472,856.
Bailey, Denis M., 3,450,707.
Bell, Malcolm R., 3,420,847.
Bell, Malcolm R., 3,428,653.
Bell, Malcolm R., 3,472,872.
Bell, Malcolm Rice, 3,478,039.
Carabateas, Philip M., 3,429,918.
Carabateas, Philip M., 3,445,474.
Christiansen, Robert G.; and Miller, Theodore C., 3,452,060.
Clinton, Raymond O., 3,431,286.
Clinton, Raymond O., 3,458,504.
Cutler, Royal A.; and Schalit, Samuel, 3,468,898.
Forim, Leo I., 3,474,934.
Gelenczei, Emil F.; and Lasher, Hiram N., 3,429,965.
Gubitz, Franklyn W., 3,472,852.
Jaffe, Martin A.; and Lipfert, Donald E., 3,429,310.
Kibbe, Walter R., 3,460,487.
Kirchner, Frederick K.; and Zalay, Andrew W., 3,429,911.
Kirchner, Frederick K., 3,457,269.
Kirchner, Frederick K.; and Zalay, Andrew W., 3,463,787.
Laskowski, Stanley C., 3,468,882.
Lesher, George Y., 3,429,887.
Lesher, George Y., 3,472,859.
Lorenz, Roman R., 3,471,525.
Manson, Andrew John; and Phillips, Donald K., 3,433,785.
Mayer, Julian Richard, 3,444,168.
Miller, Theodore C., 3,475,419.
Mooradian, Aram, 3,452,033.
Mooradian, Aram, 3,481,944.
Ofelt, Chester W.; and Nachod, Frederick C., 3,482,994.
Philips, Donald K., 3,475,463.
Robertson, Andrew, 3,431,293.
Saum, Sol J.; and Clarke, Robert L., 3,422,094.
Schoeffel, Eugene Wilhelm; and Zimmermann, Frederick John, 3,442,798.
Schulenberg, John W., 3,431,274.
Werner, Raymond E., 3,447,944.
Werner, Raymond E.; and Roberts, Robert A., 3,457,309.
Zenitz, Bernard L., 3,432,603.
Zenitz, Bernard L.; and Behn, Donald Craig, 3,461,120.
Zenitz, Bernard L.; and Surrey, Alexander R., 3,479,346.
Sterling, Eli: *See—*
Baily, Jack H.; and Sterling, Eli,3,473,245.
Sterling Engineering Company Limited, The: *See—*
Jephson, John Edward, 3,473,719.
Sterling Extruder Corporation: *See—*
Knowles, Edward Rolland, 3,470,281.
Sterling Faucet Company: *See—*
Downey, Martin W.; and Jones, Lloyd K., 3,428,295.
Hindman, Clarence B.; and Junkins, James S., 3,459,210.
Sterling, Henley Frank, to International Standard Electric Corporation. Polycrystalline semiconductor devices. 3,467,557, 9-16-69, Cl. 148-175.
Sterling, Henley Frank; and Swann, Richard Charles George, to International Standard Electric Corporation. Method of forming a silicon nitride coating. 3,485,666, 12-23-69, Cl. 117-230.
Sterling Packing and Gasket Co.: *See—*
Foster, Robert Donnell; and Banker, John C., 3,484,576.
Sterling Plastics Company: *See—*
Fleming, Jack Fairchild, 3,439,419.
Sterling, Ronald W. Apparatus for the storage and dispensing of liquids. 3,448,897, 6-10-69, Cl. 222-105.
Sterling Seal Company: *See—*
Hendrickson, Richard F.; and King, Roderick V., 3,421,651.
Hendrickson, Richard F.; and King, Roderick V., 3,438,537.
Hendrickson, Richard F.; and King, Roderick V., 3,439,830.
Hendrickson, Richard F.; and King, Roderick V., 3,452,894.
Hendrickson, Richard F.; and King, Roderick V., 3,459,322.
Hendrickson, Richard F.; and King, Roderick V., 3,467,272.
Sterling Systems Ltd.: *See—*
Wojtanek, Steve W., 3,472,753.
Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling and orienting apparatus. 3,485,338, 12-23-69, Cl. 198-33.
Sterman, Albert P.: *See—*
Koff, Bernard L.; Sterman, Albert P.; and Corsmeir, Robert J.,3,451,653.

Sterman, Samuel: *See*—
Johnson, Gordon C.; and Sterman, Samuel,3,431,143.
Sterman, Samuel; and Marsden, James G., to Union Carbide Corporation. Glass fiber reinforced thermoplastic polyarylene polyether resin article and process for making same. 3,434,914, 3-25-69, Cl. 161-93.
Sterman, Samuel; and Marsden, James G., to Union Carbide Corporation. Glass fiber reinforced polystyrene article and process therefor. 3,441,466, 4-29-69, Cl. 161-93.
Sterman, Samuel; and Marsden, James G., to Union Carbide Corporation. Reinforced thermoplastic styrene-acrylonitrile copolymer resins and method for making same. 3,454,454, 7-8-69, Cl. 161-93.
Sterman, Samuel; and Marsden, James G., to Union Carbide Corporation. Glass fiber reinforced polyolefin article and process therefor. 3,472,729, 10-14-69, Cl. 161-93.
Sterman, Samuel; and Marsden, James G., to Union Carbide Corporation. Room temperature vulcanizable siloxane compositions and the elastomers derived therefrom. 3,485,780, 12-23-69, Cl. 260-18.
Stermer, Rudolph H. Envelope arrangement. 3,435,868, 4-1-69, Cl. 150-39.
Stern, Albert I.: *See*—
Stern, Albert I.; and Murray, Donald C., 3,458,971.
Stern, Albert I.; and Murray, Donald C., to Stern, Albert I. Horse training device. 3,458,971, 8-5-69, Cl. 54-6.
Stern, Alfred J.; and Stern, Harold L. Dowel assembly. 3,454,256, 7-8-69, Cl. 249-54.
Stern, Alfred J.; and Stern, Harold L. Dowel positioning means. 3,469,316, 9-30-69, Cl. 32-17.
Stern, Alfred; and Sheldon, Neville Maurice, to General Foam Products Limited. Method of producing uniform colored foamed materials. 3,452,122, 6-24-69, Cl. 264-46.
Stern, Barry J.: *See*—
Ing, Samuel W., Jr.; Jensen, Harold A.; and Stern, Barry J.,3,443,166.
Stern, David M., to Burroughs Corporation. Gain stabilized differential amplifier. 3,473,137, 10-14-69, Cl. 330-30.
Stern, David M.; Mann, Abe; and Ogle, James A., to Burroughs Corporation. Image dissector scanner. 3,467,775, 9-16-69, Cl. 178-7.2
Stern, Eric W.; and Spector, Marshall L., to Grace, W. R., & Co., mesne. Production of unsaturated ethers and esters. 3,479,392, 11-18-69, Cl. 260-497.
Stern, Frank, to United States of America, Army, mesne. Light amplifying device. 3,465,159, 9-2-69, Cl. 250-213.
Stern, Fred M., to Combustion Engineering, Inc. Core design for nuclear reactor. 3,432,389, 3-11-69, Cl. 176-40.
Stern, Harold L.: *See*—
Stern, Alfred J.; and Stern, Harold L.,3,454,256.
Stern, Alfred J.; and Stern, Harold L.,3,469,316.
Stern, Howard B. Fluid velocity deceleration device. 3,429,443, 2-25-69, Cl. 210-288.
Stern, Howard W.: *See*—
Just, Jerome O.; and Stern, Howard W.,3,477,213.
Stern, Hugh Walter; and Jones, John Robert, to British Petroleum Company Limited, The. Alkylation process. 3,446,866, 5-27-69, Cl. 260-671.
Stern Metals Corporation: *See*—
Keichler, Edwin J.; Emmerich, Clifford L.; and Stern, Theodore L., 3,460,512.
Stern, Milton: *See*—
Conte, Joseph G.; Spitaleri, Paul S.; Stern, Milton; and Simpson, Theodore B.,3,425,837.
Stern, Robert M.; and Storrs, Arnold B., to Great Lakes Biochemical Co., Inc. Method of drying sugar-containing materials. 3,483,032, 12-9-69, Cl. 127-58.
Stern, Robert; and Purpuri, Rosario A. Swimming pool step construction with integral vinyl liner. 3,478,370, 11-18-69, Cl. 4-172.
Stern, Robert; Welch, Thomas Ronald; and Sage, John Ashley, to British Petroleum Company Limited, The. Production of improved road surfacing binders. 3,440,074, 4-22-69, Cl. 106-279.
Stern, Stuart: *See*—
Reuter, Brian R.; and Stern, Stuart,3,440,733.
Stern, Theodore L.: *See*—
Keichler, Edwin J.; Emmerich, Clifford L.; and Stern, Theodore L.,3,460,512.
Stern, Vernon Lloyd. Adjusting holddown clip. 3,455,093, 7-15-69, Cl. 56-305.
Sternau, Martin M., to Grace, W. R., & Co., mesne. Closure and methods and apparatus for making same. 3,439,587, 4-22-69, Cl. 93-1.3
Sternau, Martin M., 33 1/3% to Stanger, Leo. Pour spout dispensing carton. 3,484,034, 12-16-69, Cl. 229-7.
Sternbach, Leo Henryk: *See*—
Archer, Giles A.; and Sternbach, Leo Henryk,3,446,806.
Archer, Giles A.; and Sternbach, Leo Henryk,3,462,418.
Archer, Giles Allan; and Sternbach, Leo Henryk,3,422,091.
Berger, Leo; and Sternbach, Leo Henryk,3,466,328.
Brust, Bernar; Fryer, Rodney Ian; and Sternbach, Leo Henryk,3,420,841.
Farley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk,3,464,978.
Field, George Francis; and Sternbach, Leo Henryk,3,481,921.
Field, George Francis; and Sternbach, Leo Henryk,3,485,823.
Field, George Francis; and Sternbach, Leo Henryk,3,485,841.
Fryer, Rodney Ian; and Sternbach, Leo Henryk,3,439,016.
Fryer, Rodney Ian; and Sternbach, Leo Henryk,3,440,281.
Fryer, Rodney Ian; Reeder, Earl; and Sternbach, Leo Henryk,3,431,304.
Hellerbach, Joseph; Stempel, Arthur; and Sternbach, Leo Henryk,3,475,415.
Keller, Oscar; Steiger, Norbert; and Sternbach, Leo Henryk,3,442,946.
Metesics, Werner; and Sternbach, Leo Henryk,3,467,656.
Metlesics, Werner; and Sternbach, Leo Henryk,3,438,972.
Metlesics, Werner; and Sternbach, Leo Henryk,3,450,696.
Reeder, Earl; and Sternbach, Leo Henryk,3,427,304.
Stempel, Arthur; and Sternbach, Leo Henryk,3,420,817.
Stempel, Arthur; and Sternbach, Leo Henryk,3,453,279.
Stempel, Arthur; and Sternbach, Leo Henryk,3,453,326.
Sternbach, Leo Henryk; Saucy, Gabriel; Sach, George Sidney; and Stempel, Arthur, to Hoffmann-La Roche Inc.2-(α-Amino-lower alkanoyl-amino) benzophenones. 3,455,985, 7-15-69, Cl. 260-465.
Sternbach, Leo Henryk; and Stempel, Arthur, to Hoffmann-La Roche, Inc. Benzodiazepine compounds and methods for their production. 3,450,695, 6-17-69, Cl. 260-239.3
Sternberg, Erving S.: *See*—
Liggett, James J., 3,476,739.
Sternberg, James C., to Beckman Instruments, Inc. Retention spectrum analysis apparatus. 3,435,659, 4-1-69, Cl. 73-23.1
Sternberg, James C., to Beckman Instruments, Inc. Steam flow rate monitoring apparatus and method. 3,435,660, 4-1-69, Cl. 73-23.1
Sternberg, James C., to Beckman Instruments, Inc. Apparatus for flow monitoring. 3,435,678, 4-1-69, Cl. 73-194.
Sternberg, James C., to Beckman Instruments, Inc. Method of suppressing photoionization of a gas sample in an electron capture detector. 3,446,964, 5-27-69, Cl. 250-83.6
Sternberg, James C.: *See*—
Krull, Irwin H.; and Sternberg, James C.,3,426,599.
Litle, Robert L.; Sternberg, James C.; and Deuringer, Rudolf,3,483,990.
Sternberg, Martin S.: *See*—
Zinnes, Harold; Shavel, John, Jr.; and Sternberg, Martin S.,3,479,436.
Sternberg, Moshe, to Miles Laboratories, Inc. Amyloglucosidase purification. 3,483,084, 12-9-69, Cl. 195-66.
Sternberg, Moshe, to Miles Laboratories, Inc. Removal of transglucosidase from amyloglucosidase. 3,483,085, 12-9-69, Cl. 195-66.
Sternberg, Robert M., to National Cash Register Company, The. Solenoid energizing means. 3,456,164, 7-15-69, Cl. 317-148.5
Sternco Industries, Inc.: *See*—
Lovitz, David D., 3,477,679.
Sterndale, Richard F. Variable friction type exercising device. 3,462,142, 8-19-69, Cl. 272-79.
Sterne, Robert H., Jr.: *See*—
Fogleman, Edgar L.; and Sterne, Robert H., Jr.,3,424,576.
Sternglass, Ernest J., to Westinghouse Electric Corporation. Gamma ray, X-ray image converter utilizing a scintillation camera system. 3,462,601, 8-19-69, Cl. 250-83.3
Sterns, Robert B.; and McGuire, Richard, to Logic Systems, Inc. Method and apparatus for making measurements along surfaces. 3,466,535, 9-9-69, Cl. 324-34.
Sterns, Robert O.: *See*—
Cowan, Jack C.; Beasley, Augustus Earl, Jr.; Jordan, John W.; Finlayson, Claude Malcolm; and Sterns, Robert O.,3,425,953.
Sternung, Sven Y., to New North Electric Company, mesne. Nonblocking pulse code modulation system having storage and gating means with common control. 3,458,659, 7-29-69, Cl. 179-15.
Sterrett, James R.; Emery, James C.; and Barber, John B., to United States of America, National Aeronautics and Space Administration. Laser grating interferometer. 3,468,609, 9-23-69, Cl. 356-107.
Sterritt, Lanny W.: *See*—
Morgan, Huw C.; and Sterritt, Lanny W.,3,443,870.
Sterry, Dan G.; and Lindsey, Joe P., to Phillips Petroleum Company. Signal correlation. 3,427,111, 2-11-69, Cl. 356-256.
Sterzer, Fred, to RCA Corporation. Cubic crystal light modulator. 3,454,771, 7-8-69, Cl. 250-199.
Stetka, Daniel George, to Western Electric Company, Incorporated. Corrugating apparatus. 3,464,250, 9-2-69, Cl. 72-77.
Stetler, Wesley C.: *See*—
Allen, Richard G.; Kurtz, Clark; Mac Sorley, Olin L.; Spencer, Dana R.; and Stetler, Wesley C.,3,474,239.
Stetson, Karl A.; and Elion, Herbert A., to GCA Corporation. Holographic method and apparatus for acoustical field recording. 3,434,339, 3-25-69, Cl. 73-67.6
Stetson Shoe, and Batchelder-Rubico, Inc.: *See*—
Snow, Henry R.; and Rubico, Jerome A., 3,419,929.
Stetson-Ross Machine Company, Inc.: *See*—
Zuercher, Warren H., 3,470,998.

Zuercher, Warren H., 3,486,602.
Stettler, Christian H.: *See—*
Garver, Oscar W.; Ullman, Frederick E.; Stettler, Christian H.; and Kopp, Hans W.,3,427,426.
Luedi, Hans R.; and Stettler, Christian H.,3,461,710.
Stettner & Co.: *See—*
Wambach, Gunther; and Stielke, Sennor, 3,486,089.
Steuber, Walter, to Du Pont de Nemours, E. I., and Company. Spinneret plate. 3,421,181, 1-14-69, Cl. 18-8.
Steuer, Herbert, to Reimers-Getriebe A.G. Cone pulley transmission. 3,429,193, 2-25-69, Cl. 74-230.17
Steuer, Herbert, to Reimers-Getriebe A.G. One-piece chain link. 3,431,724, 3-11-69, Cl. 59-35.
Steuernagel, Walter, to Metallgesellschaft Aktiengesellschaft. Electrode discharge plate for dust collector. 3,435,594, 4-1-69, Cl. 55-112.
Steuler, Georg. Method and apparatus for mixing flowable substances. 3,486,863, 12-30-69, Cl. 23-285.
Stevens, Alan Ernest, to Foster Wheeler Corporation. Welding of tubes to tube plates. 3,473,215, 10-21-69, Cl. 29-483.
Stevens, Alan Ernest; and Brissenden, Derek V., to Foster Wheeler Corporation. Welding torch for finned tube panels. 3,485,999, 12-23-69, Cl. 219-125.
Stevens, Albert J. E.; Stevens, Charles H.; and Klose, Reginald. Boat portaging and carrying device. 3,436,778, 4-8-69, Cl. 9-400.
Stevens, Allan Ernest; Hill, William G.; and Aldous, David John, to Foster Wheeler Corporation. Modified water cooled torch. 3,461,269, 8-12-69, Cl. 219-125.
Stevens, Antonius T., to American Enka Corporation. Method for manufacturing a melting grid and the melting grid manufactured thereby. 3,472,221, 10-14-69, Cl. 126-152.
Stevens, Ash, Inc.: *See—*
Daniher, Francis A.; and Hackley, Brennie E., Jr., 3,467,659.
Stevens, Carlile R.: *See—*
Crane, William W. T.; and Stevens, Carlile R.,3,458,414.
Stevens, Charles H.: *See—*
Stevens, Albert J. E.; Stevens, Charles H.; and Klose, Reginald,3,436,778.
Stevens, Charles R. Apparatus for girth wrapping folios. 3,445,983, 5-27-69, Cl. 53-52.
Stevens, Daniel A., to United States of America, Navy, mesne. Sample and hold circuit. 3,430,072, 2-25-69, Cl. 307-250.
Stevens, Derek Norman, to General Motors Corporation. Windscreen wiper drive mechanisms. 3,449,966, 6-17-69, Cl. 74-44.
Stevens, Donald E.; and Doyle, Edward A., to Kohler General, Inc. Prefoaming method for expanding particulate foamable material. 3,432,937, 3-18-69, Cl. 34-22.
Stevens, Douglas N.; Bloom, Duane N.; and Bisque, Ramon E., to Earth Sciences, Inc. Gravity meters for use in geophysical exploration. 3,465,593, 9-9-69, Cl. 73-382.
Stevens, Edgar L. Shuffleboard cue stick. 3,429,575, 2-25-69, Cl. 273-129.
Stevens, Fred C. Inertia responsive nonskid system. 3,432,212, 3-11-69, Cl. 303-21.
Stevens, Fred C. Anti-skid vehicle braking system. 3,456,989, 7-22-69, Cl. 303-21.
Stevens, Frederick F. Seal construction. 3,472,534, 10-14-69, Cl. 285-119.
Stevens, George R.: *See—*
Bettega, Bruno; and Stevens, George R.,3,477,227.
Stevens, Harry M., to Monsanto Company. Condensed phosphorus transfer by recycled turbulent phosphorous stream. 3,433,601, 3-18-69, Cl. 23-293.
Stevens, Harry M., to Monsanto Company. Method for making an inductive heating element for zone refining apparatus. 3,458,408, 7-29-69, Cl. 204-37.
Stevens, Harry M., to Monsanto Company. Phosphorus condensation apparatus. 3,480,077, 11-25-69, Cl. 165-111.
Stevens, Henry C.: *See—*
Bissinger, William E.; Strain, Franklin; Stevens, Henry C.; Dial, William R.; and Chisholm, Raymond S.,3,474,072.
Stevens, Henry C., to PPG Industries, Inc. Dicyclopentadiene adduct. 3,440,284, 4-22-69, Cl. 260-586.
Stevens Hosiery: *See—*
Baird, Truette H., 3,479,842.
Causby, Arthur Bennett; and Minton, Clarence W., 3,442,237.
Stevens Hosiery Division of Stevens, J. P., & Co., Inc.: *See—*
Baird, Truette H., 3,426,552.
Stevens, Hugh Frederick; and Craven, Tom. Fuel oils. 3,463,622, 8-26-69, Cl. 44-51.
Stevens, J. P., & Co., Inc.: *See—*
Adams, Richard G.; Cobianchi, John F.; and Roth, Alan, 3,484,179.
Boehm, Ernest Robert, 3,431,814.
Gula, Eugene; and Ross, Stanley E., 3,438,107.
Harvey, John C., 3,464,460.
Hopkins, John G., 3,483,690.
Inman, Thomas R., 3,465,756.
Lauck, Petter, III, 3,437,792.
McNab, Robert Francis, Jr., 3,439,392.
Moore, Donald R.; and Tesoro, Giuliana C., 3,441,606.
Oroslan, Andrew; Sello, Stephen B.; and Tesoro, Giuliana C., 3,485,815.
Ross, Stanley E.; Mazzone, Charles P.; and Russo, Carl J., 3,441,990.
Tesoro, Giuliana C.; and Ring, Richard N., 3,420,840.
Tesoro, Giuliana C., 3,433,576.
Tesoro, Giuliana C.; and Mattei, Frank V., 3,441,954.
Tesoro, Giuliana C., 3,468,751.
Tesoro, Giuliana C., 3,470,258.
Tesoro, Giuliana C., 3,472,839.
Tesoro, Giuliana C., 3,477,802.
Turton, Walter; and Mazzone, Charles, 3,479,710.
Stevens, John H.: *See—*
Stahler, Ylo E.; and Stevens, John H.,3,453,629.
Stevens, Kenneth H.: *See—*
Cabernoch, James L.; and Stevens, Kenneth H.,3,429,432.
Stevens, Malcolm P., to Chevron Research Company. Phenol-aldehyde wood bonding adhesives incorporating organic hydroperoxides and having improved curing rates. 3,459,708, 8-5-69, Cl. 260-59.
Stevens, Peter P., Jr., to Landor, Walter. Flexible connector structure. 3,460,860, 8-12-69, Cl. 287-20.92
Stevens, Ralph R., Jr.: *See—*
McKibben, Joseph L.; Ohlsen, Gerald G.; and Stevens, Ralph R., Jr.,3,466,442.
Stevens, Richard L., to Fannell, Inc. Tension responsive drive for an endless film projector. 3,420,462, 1-7-69, Cl. 242-55.19
Stevens, Richard S.: *See—*
Mosebach, Wolfgang; Evans, William E. R.; and Stevens, Richard S.,3,470,307.
Stevens, Robert C., to Cordis Corporation. Tubular products and method of making same. 3,485,234, 12-23-69, Cl. 128-2.
Stevens, Robert H.: *See—*
Broom, Charles M.; and Stevens, Robert H.,3,469,020.
Stevens, Robert J., to Nailey Meter Company. Radiant energy detector. 3,454,767, 7-8-69, Cl. 250-83.3
Stevens, Roy A. Trays for packaging jars, cans and similar articles. 3,478,950, 11-18-69, Cl. 229-32.
Stevens, Roy J. Inside micrometer. 3,473,230, 10-21-69, Cl. 33-149.
Stevens, Thomas R., to Bell Telephone Laboratories, Incorporated. Error detection system. 3,436,486, 4-1-69, Cl. 179-18.
Stevens, Travis E., to Rohm & Haas Company. Compounds containing nitrogen and fluorine and a method for their preparation. 3,439,017, 4-15-69, Cl. 260-465.5
Stevens, William E. Pipe joint employing enlarged pipe ends. 3,438,658, 4-15-69, Cl. 285-404.
Stevens, William Ward, Jr., to Data Disc, Incorporated. Data storage system. 3,474,427, 10-21-69, Cl. 340-174.1
Stevens, William W.: *See—*
Bialik, Jack J.; Masher, Dale P.; and Stevens, William W.,3,430,095.
Stevenson, Clarence H., III. Load handling apparatus. 3,437,219, 4-8-69, Cl. 214-38.
Stevenson, Gerald L.: *See—*
Shearon, George B.; and Stevenson, Gerald L.,3,429,663.
Stevenson, Harry, to Shaw, John & Sons (Salford) Ltd., mesne. Combined cropping and upset testing machine. 3,423,996, 1-28-69, Cl. 73-94.
Stevenson, Jeremy: *See—*
Yeats, Francis William; and Stevenson, Jeremy,3,472,702.
Stevenson, Paul D.: *See—*
Egbert, Earl L.; Goodale, Paul H.; and Stevenson, Paul D.,3,425,220.
Stevenson, Samuel Reid: *See—*
Marlow, William Henry; Maroney, Matthew Henry; and Stevenson, Samuel Reid,3,420,282.
Stevenson, Wendell: *See—*
Stoffel, Robert W.; and Stevenson, Wendell,3,432,115.
Stoffel, Robert W.; and Stevenson, Wendell,3,486,791.
Steverding, Bernard, to United States of America, Army. Cooled injectant gas duct for thrust vector control apparatus. 3,428,254, 2-18-69, Cl. 239-127.3
Steward, Jerry H., to Multifastener Corporation. Nut-panel assembly and method of making same. 3,469,613, 9-30-69, Cl. 151-41.73
Steward-Warner Corporation: *See—*
Clinton, Edwin T.; and Kramcsak, Michael, Jr., 3,479,680.
Stewart, Andy C. Golf club cover fastener. 3,460,207, 8-12-69, Cl. 24-73.
Stewart, Bruce E., to Whirlpool Corporation. Food waste disposer. 3,423,036, 1-21-69, Cl. 241-100.5
Stewart, C. Jim, & Stevenson, Inc.: *See—*
Burgess, Harry L., 3,486,556.
Stewart, Charles M.: *See—*
Price, Lowell T.; Moon, John J.; and Stewart, Charles M.,3,476,823.
Stewart, Charles T., to Stewart-Glapat Corporation. Interfitting stackable bottles or similar containers. 3,485,355, 12-23-69, Cl. 206-65.
Stewart, Charles W.: *See—*
Watson, Stanley A.; and Stewart, Charles W.,3,474,722.

Stewart, David J. Optical scanning system. 3,480,363, 11-25-69, Cl. 355-68.
Stewart, David, to Boeing Company, The. Position indicator switch with yieldingly spaced cylindrical contacts having wiping action. 3,452,168, 6-24-69, Cl. 200-61.52
Stewart, Donald B.: *See—*
Sze, Morgan C.; and Stewart, Donald B.,3,479,298.
Stewart, Donald F., to Allied Chemical Corporation. Blown tubular film dies. 3,461,501, 8-19-69, Cl. 18-14.
Stewart, Eric C. Panelling arrangement for supporting shelves and other fitments. 3,482,706, 12-9-69, Cl. 211-87.
Stewart, Felix I. Cable gripping coupler. 3,435,782, 4-1-69, Cl. 104-220.
Stewart, Florentine U.; and Urban, Joseph A. Apparatus for applying frosting to cakes. 3,473,508, 10-21-69, Cl. 118-2.
Stewart, Floyd D. Goodrich, B. F., Company, The Fuel-resistant polyurethanes based on polyesters of polyhalopolyhydro-methanonaphthalene carboxylic anhydride. 3,461,104, 8-12-69, Cl. 260-75.
Stewart, Floyd D., to Goodrich, B. F., Company, The. Hydrolysis resistant polyesterurethanes. 3,463,758, 8-26-69, Cl. 260-75.
Stewart, Floyd D., to Goodrich, B. F., Company, The. Fuel resistant polyurethanes. 3,475,383, 10-28-69, Cl. 260-75.
Stewart, Frederick G., to Schaefer Equipment Company. Securing safety equipment to railroad cars by means of a blind hook bolt. 3,463,525, 8-26-69, Cl. 287-189.36
Stewart, George T.; and Laprairie, Ernest J., to Stewart Laprairie Skinback Trailers Ltd. Freight vehicle with a roll-back body. 3,446,517, 5-27-69, Cl. 280-423.
Stewart, George W., to Kwikseal. Heat seal machine. 3,454,741, 7-8-69, Cl. 219-243.
Stewart, Glen E.: *See—*
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.
Stewart, Jack D., to McGraw-Edison Company. Shirt pressing machine. 3,471,067, 10-7-69, Cl. 223-57.
Stewart, Jerry D., to Shelby Parts Co., Inc. Composite non-ferrous wheel having a steel rim and method of making the same. 3,484,137, 12-16-69, Cl. 301-65.
Stewart, Jesse E. Method of forming and installing a recessed valve stem. 3,432,904, 3-18-69, Cl. 29-157.1
Stewart, John A., to General Motors Corporation. Overpotential indicator device control circuit. 3,449,737, 6-10-69, Cl. 340-248.
Stewart, John D., to Owens-Illinois, Inc. Tubular void form and voided beam of cementitious material incorporating same. 3,451,184, 6-24-69, Cl. 52-722.
Stewart, John Dewar; and Hamilton, Alexander, to Geigy, J. R., A.G. Process for halogenating phthalocyanines. 3,424,759, 1-28-69, Cl. 260-314.5
Stewart, John H., Jr., to Stark Ceramics, Inc. Interlocking building block. 3,422,588, 1-21-69, Cl. 52-285.
Stewart, John Kenneth, to Tamper Inc., mesne. Constant lift jacking device. 3,455,249, 7-15-69, Cl. 104-7.
Stewart, John K., to Canada Iron Foundries Limited. Switch tampers. 3,426,697, 2-11-69, Cl. 104-12.
Stewart, John K., to Canada Iron Foundries Limited. Railway track maintenance equipment. 3,430,578, 3-4-69, Cl. 104-7.
Stewart, John K., to Tamper, Inc. Track lifting truss. 3,435,779, 4-1-69, Cl. 104-7.
Stewart, John K., to Canada Iron Foundries Limited. Railway track jacking devices. 3,459,135, 8-5-69, Cl. 104-7.
Stewart, John L., to Santa Rita Technology, Inc. Method and system of analyzing the inner ear. 3,432,618, 3-11-69, Cl. 179-1.
Stewart, John L., to Santa Rita Technology, Inc. Neural-like analyzing system. 3,469,034, 9-23-69, Cl. 179-1.
Stewart, John L., to Santa Rita Technology, Inc. Speech processing system. 3,483,325, 12-9-69, Cl. 179-1.
Stewart, John O. Trailer hitch. 3,445,125, 5-20-69, Cl. 280-406.
Stewart, John O. Trailer hitch mounting. 3,485,514, 12-23-69, Cl. 280-501.
Stewart, Joseph T., Jr., to ACF Industries, Incorporated. Valve having pressure actuated seats. 3,421,733, 1-14-69, Cl. 251-172.
Stewart, Katherine Ferguson; and Pruett, James A., to Flame-Out, Inc. Flame extinguishing composition. 3,457,172, 7-22-69, Cl. 252-3.
Stewart Laprairie Skinback Trailers Ltd.: *See—*
Stewart, George T.; and Laprairie, Ernest J., 3,446,517.
Stewart, Lawrence L.: *See—*
Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L.,3,449,093.
Baxt, Lawrence M.; McDowell, John R.; and Stewart, Lawrence L.,3,449,094.
Stewart, Mary J., to FMC Corporation. Polyester resin stabilized with phenyl sulfoxides. 3,462,391, 8-19-69, Cl. 260-45.7
Stewart, Mary J.; and Carlson, Otto K., to FMC Corporation. Pressurized esterification of terephthalic acid in presence of low concentration of tertiary amine. 3,444,140, 5-13-69, Cl. 260-75.
Stewart, Mary J.; and Carlson, Otto K., to FMC Corporation. Polyesters stabilized with aliphatic orthosilicates. 3,475,371, 10-28-69, Cl. 260-45.7
Stewart, Mary J.; and Price, John A., to FMC Corporation. Antimony oxalate as a polycondensation catalyst. 3,438,944, 4-15-69, Cl. 260-75.
Stewart, Mary J.; and Price, John A., to FMC Corporation. Antimony oxysulfied as a polycondensation catalyst. 3,438,945, 4-15-69, Cl. 260-75.
Stewart, Mary J.; and Price, John A., to FMC Corporation. Process for preparing polyethylene terephthalate using nickel hydroxide and nickel phenoxides as polycondensation catalysts. 3,451,972, 6-24-69, Cl. 260-75.
Stewart, Mary J.; and Price, John A., to FMC Corporation. Preparation of polyethylene terephthalate using cyanide esterification catalyst. 3,451,973, 6-24-69, Cl. 260-75.
Stewart, Mary J.; and Price, John A., to FMC Corporation. Process of preparing polyethylene terephthalate using metal thiocyanate transesterification catalysts. 3,454,531, 7-8-69, Cl. 260-75.
Stewart, Mary J.; and Price, John A., to FMC Corporation. Process of preparing polyethylene terephthalate using lead fluoride as transesterification catalyst and a condensation catalyst. 3,457,239, 7-22-69, Cl. 260-75.
Stewart, Mary J.; and Price, John A., to FMC Corporation. Group IA and IV a metal cyanamide transesterifi- cation catalysts in preparation of polyethylene terephthalate. 3,475,382, 10-28-69, Cl. 260-75.
Stewart, Mary J.: *See—*
Price, John A.; and Stewart, Mary J.,3,427,288.
Stewart, Newell J.: *See—*
Bergener, Robert H.; and Stewart, Newell J.,3,438,159.
Stewart, Paul H., to Eastman Kodak Company. Photographic color diffusion transfer processes and elements. 3,462,266, 8-19-69, Cl. 96-29.
Stewart, Paul H., to Eastman Kodak Company. Heat processable photographic elements having water vapor-impermeable protective outer layer. 3,468,664, 9-23-69, Cl. 96-63.
Stewart, Richard C.: *See—*
Di Cuollo, C John; Kinney, Roland W.; and Stewart, Richard C.,3,453,276.
Stewart, Richard F.: *See—*
Bower, Robert W.; and Stewart, Richard F.,3,421,092.
Stewart, Robert M., to Aerojet-General Corporation, mesne. Electrochemical signal processing and storage device. 3,453,602, 7-1-69, Cl. 340-173.
Stewart, Scott O. Electrical junction box assembly. 3,444,310, 5-13-69, Cl. 174-59.
Stewart, Sherman Alan, to Martin Sweets Company, Inc., The. Method of coating tubular object with polyurethane foam. 3,443,984, 5-13-69, Cl. 117-94.
Stewart, Sigmund W. Tundish nozzle construction. 3,451,594, 6-24-69, Cl. 222-152.
Stewart, Stanley H.: *See—*
Coel, Trafford H.; Hanford, Eugene B.; and Stewart, Stanley H.,3,423,532.
Stewart, Vernon G., to Mission Manufacturing Company, mesne. Method of drilling wells in rock. 3,485,301, 12-23-69, Cl. 166-315.
Stewart, Vincent N., to General Electric Company. High voltage current transformer. 3,456,220, 7-15-69, Cl. 336-58.
Stewart, Walter R. Audio amplifying and transducing apparatus for producing and emitting a high-amplitude, high- energy sound output. 3,438,028, 4-8-69, Cl. 340-384.
Stewart, Warren A., to Koppers Company, Inc. Vacuum device for advancing a continuous web. 3,425,610, 2-4-69, Cl. 226-95.
Stewart, Warren A., to Koppers Company, Inc. Method of making an improved vacuum belt. 3,432,974, 3-18-69, Cl. 51-328.
Stewart, Wellington B.: *See—*
Gross, William; and Stewart, Wellington B.,3,458,287.
Stewart, Wilber C.: *See—*
Cosentino, Louis S.; and Stewart, Wilber C.,3,482,220.
Stewart, William A.: *See—*
Meyerhoff, Alfred; Stewart, William A.; Long, Arthur H.; and Kothmann, Richard E.,3,457,988.
Stewart, William E.: *See—*
Netzel, Philip C.; and Stewart, William E.,3,440,371.
Stewart, William J.: *See—*
Goss, Norman P.; Black, James; and Stewart, William J.,3,438,820.
Stewart, William R., to Bear Archery Company. Laminated archery bow. 3,434,465, 3-25-69, Cl. 124-23.
Stewart, William T.: *See—*
Stuart, Frank A.; Stewart, William T.; Lowe, Warren; and Kavanagh, Frank W.,3,428,615.
Stewart, Wilson M. Magnetic coin tester. 3,452,849, 7-1-69, Cl. 194-101.
Stewart-Glapat Corporation: *See—*
Stewart, Charles T., 3,485,355.

Stewart-Warner Corporation: *See—*
Baez, Edgar R.; Heinke, Walter M.; and Nelken, Alfred, 3,433,940.
Bardwell, Francis G.; and Redman, Derek H., 3,423,589.
Bilek, Frank Thomas, 3,465,632.
Emmert, Thomas E., 3,470,864.
Gray, Dudley, 3,428,749.
Jefferson, Walter R., 3,482,444.
Josephsen, Gene H.; and Weaver, Frank C., 3,435,339.
Kraft, Edmond W.; and Weaver, Frank C., 3,483,500.
Little, Arthur J., 3,449,736.
Payne, Robert A.; and Van Der Molen, John F., 3,453,549.
Powell, Patrick L., 3,422,683.
Powell, Patrick L., 3,422,684.
Powell, Patrick L., 3,422,685.
Powell, Patrick L., 3,432,096.
Powell, Patrick L.; and Wargo, Peter, 3,452,606.
Powell, Patrick L., 3,459,051.
Powell, Patrick L., 3,473,060.
Schmid, Walter, 3,460,578.
Sheahan, Robert E., 3,461,480.
Tramontini, Vernon N., 3,428,347.
Tramontini, Vernon N., 3,470,606.
Vagi, Julius J., 3,435,183.
Williams, Philip J., 3,453,024.

Stewarts and Lloyds Limited: *See—*
Doyle, William Francis, 3,432,915.
Parker, George, 3,466,920.

Stibal, Willard O. Modern mathematics demonstration unit. 3,461,573, 8-19-69, Cl. 35-34.

Stibbe, G., & Company Limited: *See—*
Ballard, Cyril G., 3,461,691.

Stibble, G., & Company Limited: *See—*
Sutton, Jack, 3,446,037.

Stich, Johannes, to Siemens Aktiengesellschaft. Framework wiring arrangement for component modules insertable into the framework. 3,462,649, 8-19-69, Cl. 317-101.

Stich, Wilhelm; and Sickbert, Adolf, to Heppenstall Company. Process for the reduction of hot-rolled strip with very fine structural grain size. 3,432,367, 3-11-69, Cl. 148-12.

Stickel, Allwin; and Hagedorn, Floyd T., to Libbey-Owens-Ford Glass Company. Apparatus for bending glass sheets with aligning means. 3,459,526, 8-5-69, Cl. 65-289.

Stidhams, Frederick J.: *See—*
Del Vecchio, Michael; and Stidhams, Frederick J.,3,434,167.

Stiebel, Ariel I.; and Lippmann, Seymour A., to Federal Electronics, Inc. Electronic alarm system. 3,431,470, 3-4-69, Cl. 317-142.

Stiefel, Frank J.: *See—*
Dille, James M.; Stiefel, Frank J.; and Meyer, Mervin,3,428,638.

Stieg, Robert W., to FWD Corporation. Torque dividing spur gear differential. 3,420,121, 1-7-69, Cl. 74-714.

Stieger, Gerhard; and Flasch, Josef, to Chemische Werke Albert. Polyester resins from high molecular weight polyesters and process for preparing them. 3,427,267, 2-11-69, Cl. 260-22.

Stiegler, Elwood A.: *See—*
Kehoe, Norman T.; and Stiegler, Elwood A.,3,479,238.

Stiegler, Theodore Donald; Janosik, James Phillip; and Burns, Edward Brantley,, to Du Pont de Nemours, E. I., and Company. Film winding apparatus. 3,460,776, 8-12-69, Cl. 242-75.53

Stiel, Karl-Heinz, to Wagner, Gunther, Pelikan-Werke. Implement for transferring pigments. 3,432,874, 3-18-69, Cl. 15-145.

Stielke, Sennor: *See—*
Wambach, Gunther; and Stielke, Sennor,3,486,089.

Stienen, Karl Heinz. Installation for storing articles, particularly for parking vehicles. 3,432,044, 3-11-69, Cl. 214-16.1

Stiepel, Erhard Edwin, to Maremont Corporation. Spindle clutch and brake mechanism. 3,420,343, 1-7-69, Cl. 192-18.

Stiepel, Erhard Edwin, to Maremont Corporation. Textile sliver doffing mechanism. 3,435,485, 4-1-69, Cl. 19-159.

Stier, Henry W. Cutting tools. 3,456,315, 7-22-69, Cl. 29-96.

Stier, Henry W., to Carmet Company. Reversible throw-away cutting inserts. 3,466,720, 9-16-69, Cl. 29-95.

Stier, Henry W., to Carmet Company. Tool holder. 3,466,955, 9-16-69, Cl. 82-36.

Stier, Henry W., to Carmet Company. Reversible cutting inserts and tool holder for the same. 3,484,919, 12-23-69, Cl. 29-96.

Stieringer, Albert: *See—*
Wilharm, Theo; and Stieringer, Albert,3,464,334.

Stierlin, Hans; and Eber, Nikolaus, to Kuhlapparate G.m.b.H. Absorption refrigeration system. 3,464,221, 9-2-69, Cl. 62-476.

Stiffel Company, The: *See—*
Stiffel, Theophile A., 3,425,540.

Stiffel, Theophile A., to Stiffel Company, The. Display package. 3,425,540, 2-4-69, Cl. 206-38.

Stiger, Bryan E. Bathtub with vertical movable platform for hospitals and nursing homes. 3,477,069, 11-11-69, Cl. 4-185.

Stigler, Willard R.: *See—*
Thiessen, Elmer E.; Drabik, Walter; and Stigler, Willard R.,3,449,609.

Stile-Craft Manufacturers, Inc.: *See—*
Cranage, Bidwell C., 3,459,218.
Cranage, Bidwell Chapman, 3,448,760.

Stile-Craft Manufactures, Inc.: *See—*
Cranage, Bidwell C., 3,441,046.
Cranage, Bidwell Chapman, 3,477,105.

Stiles, Alvin B.; and Yates, Paul Clifford, to Du Pont de Nemours, E. I., and Company. Catalytic oven coating compositions. 3,460,523, 8-12-69, Cl. 126-19.

Stiles, Arthur G. Automatic air flow control device for duct systems. 3,424,195, 1-28-69, Cl. 137-504.

Stiles, Grayson G. Blowgun fuse adapter. 3,464,048, 8-26-69, Cl. 337-242.

Stiles, John Callender, to General Precision Systems Inc. Gyro with flexure hinge. 3,427,828, 2-18-69, Cl. 64-15.

Stiles, John C., to Singer-General Precision, Inc. Bi-fluid hydrodynmic bearing. 3,439,961, 4-22-69, Cl. 308-9.

Stiles, John C., to General Precision Systems Inc. Tubular hinge suspension for gyro rotor. 3,452,608, 7-1-69, Cl. 74-5.

Stiles, John C.; and Emerson, John F., to Singer-General Precision, Inc. Bimetal heater for a gyroscope. 3,453,894, 7-8-69, Cl. 74-5.

Stiles, John C.: *See—*
Skalski, Clement A.; and Stiles, John C.,3,433,568.
Skalski, Clement A.; and Stiles, John C.,3,484,169.
Soughworth, Hamilton, Jr.; and Stiles, John C.,3,440,888.

Stiles, Phillip J.: *See—*
Esaki, Leo; Howard, Webster E., Jr.; and Stiles, Phillip J.,3,445,733.

Stiles, Walter R., to Skuttle Manufacturing Company. Humidifier with electrolytic protection. 3,476,673, 11-4-69, Cl. 204-196.

Stiles, Walter R., to Skuttle Manufacturing Company. Humidifier and system. 3,480,209, 11-25-69, Cl. 237-1.

Still, Carl, Firma: *See—*
Knappstein, Johannes; and Thiersch, Friedrich, 3,461,037.

Still, James M., Jr.: *See—*
Valtri, Frank J.; and Still, James M., Jr.,3,434,589.

Still, Samuel A., Jr., to Still-Walter Tool & Manufacturing Company. Garment hanger for curing oven conveyor. 3,485,424, 12-23-69, Cl. 223-96.

Still-Walter Tool & Manufacturing Company: *See—*
Still, Samuel A., Jr., 3,485,424.

Stillhard, Bruno, to Gebruder Buehler AG. Injection molding machine and method of operation. 3,481,001, 12-2-69, Cl. 18-30.

Stillhard, Bruno; and Tobler, Walter, to Buehler, Gebruder. Electrohydraulic valve. 3,433,256, 3-18-69, Cl. 137-529.

Stillit, Gerald Barry. Apparatus for teaching knowledge. 3,477,144, 11-11-69, Cl. 35-9.

Stillman, Albert H., Jr., to Pal Pools, Inc. Swimming pool. 3,429,085, 2-25-69, Cl. 52-169.

Stillman, Donald W.: *See—*
Forge, Charles O., 3,467,869.

Stillo, Horatio Serafino, to Minnesota Mining and Manufacturing Company. Electron beam recording medium with acid sensitive indicator and halogenated polymer coating. 3,425,867, 2-4-69, Cl. 117-230.

Stillwagon, George B., Jr., to Gardner-Denver Company. Method for producing driving tools for recessed head fasteners. 3,439,413, 4-22-69, Cl. 29-558.

Stillwagon, George B., Jr., 1/2 to Fraser, Kenneth G. Universal joint pinning construction. 3,447,232, 6-3-69, Cl. 29-434.

Stillwaugh, Eleanor M. Collapsible playpen. 3,430,273, 3-4-69, Cl. 5-98.

Stillwell, Peter F.T.C., to Xerox Corporation. Embattled scanning of documents. 3,472,959, 10-14-69, Cl. 178-7.7

Stillwell, Peter Frederic Thomas Cryer; Montgomery, Peter Murdo; and Hogg, Richard William, to Electric & Musical Industries Limited. Radar apparatus. 3,432,854, 3-11-69, Cl. 343-7.4

Stilmar, Frederic B., du Pont de Nemours, E. I., and Company. Ferrous metal articles with metal galvanic coatings and fluorocarbon copolymer top layers. 3,431,136, 3-4-69, Cl. 117-70.

Stilmar, Frederic B., to Du Pont de Nemours, E. I., and Company. Copolymers of tetrafluoroethylene, ethylene and an olefinic acid. 3,445,434, 5-20-69, Cl. 260-80.71

Stilmar, Frederic B., to Du Pont de Nemours, E. I., and Company. Interpolymers of vinylidene fluoride. 3,449,305, 6-10-69, Cl. 260-80.76

Stilmar, Frederic B.: *See—*
Chalmers, John R.; and Stilmar, Frederic B.,3,451,978.

Stilson, Vernard McComb. Protective structure for rose trees and the like. 3,466,799, 9-16-69, Cl. 47-21.

Stilwell, George R., Jr.: *See—*
Abramson, Paul; and Stilwell, George R., Jr.,3,440,607.
Juliusburger, Hans Y.; and Stilwell, George R., Jr.,3,460,132.

Stilwell, William E., Jr., deceased0 (by Silwell, Frances Hunt; executrix). Rotatable tub of combination washer-drier and mounting means therefor. 3,436,934, 4-8-69, Cl. 68-140.

Stim-O-Lator, Inc.: *See—*
Munroe, Clarnec R.; and Williams, Homer K., Jr., 3,443,560.

Stimpson, Flave F., to General Motors Corporation. Irreversible mechanical movement device. 3,449,978, 6-17-69, Cl. 74-411.5

Stimpson, Gordon Edward Tribe, to Churchill Instrument Company Limited. Presses. 3,423,502, 1-21-69, Cl. 264-328.
Stimson, Allen G., to Eastman Kodak Company. Automatic focusing system. 3,435,744, 4-1-69, Cl. 95-44.
Stimson, Allen G.; and Babcock, David L., to Eastman Kodak Company. Automatic color filter control. 3,475,616, 10-28-69, Cl. 250-226.
Stimson, Allen G.; and Eagle, John H., to Eastman Kodak Company. Automatic exposure control for photoflash. 3,440,938, 4-29-69, Cl. 95-10.
Stimson, Allen Gwyn, to Eastman Kodak Company. Luminous diode battery condition indicator for camera. 3,452,347, 6-24-69, Cl. 340-249.
Stimson, Raleigh B. Decorative button assembly. 3,439,439, 4-22-69, Cl. 40-1.5
Stin, Donald E., to Kane Air Scale Company. Pneumatic weight transmitter for special environments. 3,441,100, 4-29-69, Cl. 177-208.
Stinchcomb, Raymond G., to AAI Corporation. Hit indicator arrangement. 3,466,761, 9-16-69, Cl. 35-25.
Stinchfield, James Maxwell; and Morris, Hayden, to United States of America, Army. Method of vacuum deposition of piezoelectric films of cadmium sulfide. 3,466,191, 9-9-69, Cl. 117-213.
Stine, Cawley Richard: *See—*
Fish, Floyd Hamilton, Jr.; and Stine, Cawley Richard,3,485,711.
Stine, Jonathan E., to Burroughs Corporation. Multilevel blanking control and momentary stroke inhibition for visual display apparatus. 3,482,238, 12-2-69, Cl. 340-324.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth D., to Universal Oil Products Company. Hydrogenation process. 3,461,061, 8-12-69, Cl. 208-57.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth Donald, to Universal Oil Products Company. Hydrogenation process. 3,461,063, 8-12-69, Cl. 208-143.
Stine, Laurence O.; Schoenfeld, Jack R.; and Lengemann, Robert A., to Universal Oil Products Company. Multiple-stage hydrocarbon hydrocracking process. 3,472,758, 10-14-69, Cl. 208-59.
Stineback, Earl E.: *See—*
Henebry, John P.; and Stineback, Earl E.,3,482,874.
Stinehelfer, Jonathan Jerold: *See—*
Andersen, Robert Leslie; Izumi, Hideki Danny; and Stinehelfer, Jonathan Jerold,3,475,622.
Stingele, Alwig; and De Cat, Robert, to European Atomic Energy Community (Euratom). Apparatus and method for filling gloveboxes with a pure atmosphere. 3,455,348, 7-15-69, Cl. 141-65.
Stinger, Henry Joseph, to Du Pont de Nemours, E. I., and Company. Method and apparatus for measuring dynamic frictional properties of elastomers. 3,456,495, 7-22-69, Cl. 73-67.1
Stingl, Alfred LeRoy, to Trans-Meridian International, Inc. VTOL aircraft flight system. 3,473,232, 10-21-69, Cl. 33-204.
Stinson, George E.: *See—*
Provi, Mike A.; Stinson, George E.; and Lang, Lawrence V.,3,469,645.
Stinson, Joseph B., Company, The: *See—*
Stinson, Joseph B., 3,474,467.
Stinson, Joseph B., to Stinson, Joseph B., Company, The. Sanitary holding tank system. 3,474,467, 10-28-69, Cl. 4-10.
Stinson, Willis D., Jr., to E-H Research Laboratories, Inc. Pulse forming circuit. 3,443,232, 5-6-69, Cl. 328-61.
Stipanovic, Joseph G., to Westinghouse Air Brake Company. Hydraulic-pneumatic tread brake unit for railway car trucks. 3,447,647, 6-3-69, Cl. 188-153.
Stipp, Louis C.; and Williford, Richard A., to Tenneco Oil Company. Method of fracturing formations in a well. 3,482,633, 12-9-69, Cl. 166-284.
Stirling, Harold T., to Stirling Sintering Company. Agglomerating finely divided material. 3,446,218, 5-27-69, Cl. 134-57.
Stirling, Loren D., to Seaquist Valve Company, Division of Pittsburgh Railways Company. Foam actuator. 3,426,948, 2-11-69, Cl. 222-402.11
Stirling Sintering Company: *See—*
Stirling, Harold T., 3,446,218.
Stiteler, Ellwood C. Ladle with stopper mechanism. 3,421,667, 1-14-69, Cl. 222-504.
Stites, Francis H.; and Feigin, Franklin L., to Sylvania Electric Products, Inc. Apparatus for eliminating image distortions. 3,456,997, 7-22-69, Cl. 350-7.
Stith, Joe D., to Coburn Manufacturing Company, Inc. Pan and tilt television camera. 3,437,753, 4-8-69, Cl. 178-7.81
Stith, Joe D.: *See—*
Suddarth, Jack M.; and Stith, Joe D.,3,458,956.
Stits, Raymond M. Folding wing airplane. 3,439,890, 4-22-69, Cl. 244-49.
Stitt, Mary Lou. Grill liner. 3,424,145, 1-28-69, Cl. 126-25.
Stivender, Donald L., to General Motors Corporation. Internal combustion engine construction and method for operation with lean air-fuel mixtures. 3,422,803, 1-21-69, Cl. 123-90.
Stivender, Donald L., to General Motors Corporation. Internal combustion engine construction and method for improved operation with exhaust gas recirculation. 3,470,857, 10-7-69, Cl. 123-119.
Stiveson, Robert A.: *See—*
Sieger, Maurice Paul; and Stiveson, Robert A.,3,434,378.
Stobb, Anton R. Sheet stacker and bundler and method. 3,483,817, 12-16-69, Cl. 100-3.
Stobbe, Richard E.: *See—*
Zankl, Frank; Stobbe, Richard E.; and Mattson, Clyde E.,3,422,724.
Stober, Kenneth E., to Dow Chemical Company, The. Removal of waste solids from aqueous systems. 3,436,326, 4-1-69, Cl. 204-180.
Stober, Werner, to United States of America, Atomic Energy Commission. Ring slit conifuge. 3,429,187, 2-25-69, Cl. 73-432.
Stock, Hans-Joachim: *See—*
Schmidt, Richard; and Stock, Hans-Joachim,3,449,928.
Stock, Malcolm D. Display light. 3,451,751, 6-24-69, Cl. 353-20.
Stockar, Walter: *See—*
Soiron, Charles; Rafael, Hans; and Stockar, Walter,3,467,486.
Stockard, Ralph H.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,432,730.
Stockbridge, Christopher D. G.: *See—*
Olsen, Karl M.; Smith, David H.; Stockbridge, Christopher D. G.; and Tolman, Edward M.,3,425,043.
Stockburger, Charles J.: *See—*
McCoy, Donald P.; and Stockburger, Charles J.,3,421,776.
Stockburger, Dieter; Sinn, Richard; Raichle, Ludwig; Buschmann, Karl; and Stege, Wolf-Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Processing hydrocarbons containing carbon black. 3,449,238, 6-10-69, Cl. 208-186.
Stockdale, George F., to RCA Corporation. Glass seal manufacture. 3,472,640, 10-14-69, Cl. 65-43.
Stockdale, George F.; and Metz, Edmund N., to RCA Corporation. Glass seal manufacture. 3,472,413, 10-14-69, Cl. 220-2.1
Stockdale, Norman S.: *See—*
Gunderson, Paul E.; Kulterman, Robert W.; and Stockdale, Norman S.,3,465,958.
Stockdale, Norman S., to International Business Machines Corporation. Electronic curve follower. 3,429,989, 2-25-69, Cl. 178-6.8
Stockdale, William D., to Illinois Tool Works, Inc. Two-piece unit package. 3,443,741, 5-13-69, Cl. 229-51.
Stockel, Richard Frederick: *See—*
Megson, Frederic Houghton; Beachem, Michael Thomas; and Stockel, Richard Frederick,3,456,010.
Stocker, Alan F., to Farrington Business Machines Corporation. Closed bed imprinter for imprinting documents having dimensions larger than those of the imprinter. 3,486,447, 12-30-69, Cl. 101-269.
Stocker, Emil, to Geigy, J. R., AG. Yellow monoazo pigments having a greenish tint. 3,445,453, 5-20-69, Cl. 260-193.
Stocker, Emil: *See—*
Schnabel, Ernfred Peer Ottokar; and Stocker, Emil,3,459,730.
Stocker, Hermann W., to Universal Techtronics, Inc. Adaptor with switching means and condition simulating means for automotive ignition system analysis. 3,424,979, 1-28-69, Cl. 324-73.
Stocker, Lester H.: *See—*
Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A.,3,484,100.
Stocker, Raymond, to Ford Motor Company. Suspended accelerator pedal assembly. 3,446,091, 5-27-69, Cl. 74-513.
Stockert, Helmut: *See—*
Feld, Manfred; Lieser, Herbert; Lincks, Hans; and Stockert, Helmut,3,446,463.
Stockfisch, Hugo. Orthopedic treatment apparatus for the jaw bones. 3,454,001, 7-8-69, Cl. 128-76.
Stockholm, Robert Q.: *See—*
O'Connell, John Daniel; and Stockholm, Robert Q.,3,427,663.
Stockill, Edward Cyril: *See—*
Moss, Gerald; and Stockill, Edward Cyril,3,458,044.
Stocklein, Franz, to Max-Planck-Gesellschaft Zur Forderung der Wissenschaften e.V. Automatic airlock structure for corpuscular ray device having a spherical door and specimen holder. 3,474,247, 10-21-69, Cl. 250-49.5
Stocklocker, Heinrich, to Schiff & Stern Gesellschaft m.b.H. Apparatus for moistening tobacco bales. 3,437,094, 4-8-69, Cl. 131-136.
Stockmann, Hans H.; and Fertig, Joseph, to National Starch and Chemical Corporation. Sulfur-containing polyamines. 3,464,969, 9-2-69, Cl. 260-79.
Stockmann, Helmut: *See—*
Beisner, Klaus; Jacobs, Willi; and Stockmann, Helmut,3,481,548.
Decker, Hanns; Stockmann, Helmut; and Hurtmanns, Heinz,3,477,651.
Stockpole Carbon Company: *See—*
Bang, Mogens W., 3,478,180.
Hanson, Earl A., 3,453,584.
Kosco, John C., 3,482,950.
Stocks, Harry Ronald; and Gladstone, Dennis John, to General Motors Corporation. Drive axle suspension system for resiliently resisting acceleration wind-up. 3,444,947, 5-20-69, Cl. 180-71.

Stockton, Raymond F. Terrestrial magnetism responsive device including fluid supported indicating means for investigating subsurface characteristics of the earth. 3,423,672, 1-21-69, Cl. 324-8.
Stockton, Thomas R., to Ford Motor Company. Multiple speed ratio power transmission mechanism with a minimum deflection chain drive. 3,424,031, 1-28-69, Cl. 74-695.
Stockton, Thomas R., to Ford Motor Company. Manually operable transmission coil spring clutch. 3,439,560, 4-22-69, Cl. 74-732.
Stockton, Thomas R., to Ford Motor Company. Composite ring gear driving member. 3,446,089, 5-27-69, Cl. 74-448.
Stockton, Thomas R., to Ford Motor Company. Engine and transmission assembly. 3,473,413, 10-21-69, Cl. 74-695.
Stockwell, Bernard R.; and Van Steenhoven, Frank, to Holophane Company, Inc. Post top-mounted luminaire. 3,463,917, 8-26-69, Cl. 240-3.
Stockwell, David G.: *See—*
Akiyama, Hideo; and Stockwell, David G.,3,424,524.
Stoddard, Edgar S., to General Electric Company. Removable article supporting device for automatic dishwasher rack. 3,451,557, 6-24-69, Cl. 211-41.
Stoddard, Ernest R. Bidirectional solenoid driving device. 3,427,891, 2-18-69, Cl. 74-142.
Stoddard, Nicholas J.; and Stoddard, Robert W., to Leesona Corporation. Yarn heater. 3,469,384, 9-30-69, Cl. 57-34.
Stoddard, Paul M.: *See—*
Thompson, George C.; and Stoddard, Paul M.,3,477,669.
Stoddard, Robert W.: *See—*
Stoddard, Nicholas J.; and Stoddard, Robert W.,3,469,384.
Stoddart, Kenneth R., to Bestt Rollr Inc. Handle for paint roller. 3,462,202, 8-19-69, Cl. 306-30.
Stoddart, William D.: *See—*
Suman, Robert W.; Stoddart, William D.; and Swartz, Horace M.,3,478,699.
Stoeck, Georg: *See—*
Lauer, Karl; Weber, Matthias; and Stoeck, Georg,3,483,031.
Stoeckel, Albert L., to United States Steel Corporation. Impact welding apparatus. 3,441,190, 4-29-69, Cl. 228-5.
Stoeckicht, Alexander: *See—*
Heidrich, Gunther, 3,486,394.
Stoeckicht, Alexander W.: *See—*
Heidrich, Gunther, 3,424,035.
Stoeckicht, Alexander Wilhelm: *See—*
Heidrich, Gunther, 3,450,242.
Stoeckl, Walter Joseph: *See—*
Slack, John Donald; and Stoeckl, Walter Joseph,3,469,726.
Slack, John Donald; and Stoeckl, Walter Joseph,3,472,409.
Stoeckli, Oscar W.: *See—*
Lee, Edward P.; Lombardi, Eugene H.; Montes, Ralph A.; and Stoeckli, Oscar W.,3,470,996.
Stoeckly, Eugene E., to General Electric Company. Gas turbine mobile powerplant. 3,453,443, 7-1-69, Cl. 290-2.
Stoeffler, Bernhard, to Vulkan-Werk Wilhelm Diebold. Universal chuck. 3,462,162, 8-19-69, Cl. 279-2.
Stoeger Arms Corporation: *See—*
Wilhelm, Gary, 3,464,136.
Stoelting Brothers Company: *See—*
Puta, Ruben W.; and Stoelting, Carl R., 3,462,968.
Puta, Ruben W., 3,476,272.
Thomson, Meredith C., 3,476,364.
Stoelting, Carl R.: *See—*
Puta, Ruben W.; and Stoelting, Carl R.,3,462,968.
Stoelting, Herman O.: *See—*
Sankey, Edward L.; and Stoelting, Herman O.,3,435,397.
Stoeng, Gunnar, to Beloit Corporation. Arrangement for a baling press. 3,430,556, 3-4-69, Cl. 100-215.
Stoertz, Robert W., to Westvaco Corporation. Method of uniformly discharging high consistency pulp from a flow chamber containing a constricted opening. 3,486,516, 12-30-69, Cl. 137-8.
Stoessl, Albert, to Canadian Patents and Development Limited. Hordatine compounds and synthesis. 3,475,459, 10-28-69, Cl. 260-346.2
Stoever, Hans O., to Eastman Kodak Company. Artificial kidney system provided with automatic coupling means. 3,482,573, 12-9-69, Cl. 128-214.
Stoever, Hans O.; and Leinbach, Richard K., to Eastman Kodak Company. Artificial kidney system provided with a lever actuated shunt coupling mechanism. 3,482,574, 12-9-69, Cl. 128-214.
Stoferle, Theodor: *See—*
Krempel, Fritz; and Stoferle, Theodor,3,478,859.
Stoffel, Jerome J.: *See—*
Granberg, Mauritz L.; and Stoffel, Jerome J.,3,434,135.
Stoffel, Paul J., to Monsanto Company. Thioparabanic acid derivatives. 3,461,133, 8-12-69, Cl. 260-309.5
Stoffel, Paul J., to Monsanto Company. Parabanic acid derivatives. 3,462,420, 8-19-69, Cl. 260-239.9
Stoffel, Richard; and Hellingman, Gosen Joop, to Sulzer Brothers Limited. Supercharged two-stroke cycle internal combustion piston engine. 3,447,313, 6-3-69, Cl. 60-13.
Stoffel, Robert W.: *See—*
Hopka, Thomas; and Stoffel, Robert W.,3,459,440.
Hopka, Thomas; and Stoffel, Robert W.,3,472,552.
Hopka, Thomas; and Stoffel, Robert W.,3,473,201.
Stoffel, Robert W., to Robbins, Jim, Seat Belt Co. Inertia retracting device with ball locking elements. 3,442,467, 5-6-69, Cl. 242-107.4
Stoffel, Robert W., to Robbins, Jim, Seat Belt Co. Clamping device responsive to change in safety belt motion. 3,486,792, 12-30-69, Cl. 297-388.
Stoffel, Robert W.; and Stevenson, Wendell, to Robbins, Jim, Seat Belt Co. Belt securing means. 3,432,115, 3-11-69, Cl. 242-107.
Stoffel, Robert W.; and Stevenson, Wendell, to Robbins, Jim, Seat Belt Co. Energy absorbing means. 3,486,791, 12-30-69, Cl. 297-386.
Stoffel Seals Corporation: *See—*
Keller, Ted G.; and Stelzer, William, 3,468,045.
Stoffels, Robert E.: *See—*
Mitchell, Len B.; and Stoffels, Robert E.,3,465,290.
Stoffer, Homer; and Grace, Paul R. Self-releasing marker buoy. 3,419,927, 1-7-69, Cl. 9-9.
Stoffregen, Karlheinz: *See—*
Illgen, Werner E.; and Stoffregen, Karlheinz,3,460,231.
Stoft, Paul E.; and Davis, Dale R., to Hewlett-Packard Company. Electro-sensitive magnetic recording apparatus and method. 3,474,456, 10-21-69, Cl. 346-74.
Stogner, Joel M., to Halliburton Company. Stuffing box for a rotary pump. 3,474,734, 10-28-69, Cl. 103-111.
Stogryn, Eugene L.: *See—*
Bosniack, David S.; Stogryn, Eugene L.; and Berger, Joel G.,3,441,520.
Stogryn, Eugene L.; Argabright, Perry A.; and Leary, Ralph J., to Esso Research and Engineering Company. Difluoroamino epoxy alkane or cycloalkane and polymers thereof. 3,441,518, 4-29-69, Cl. 260-2.
Passannante, Anthony J.; and Stogryn, Eugene L.,3,433,776.
Stohldrier, Oliver H., to National Lead Company. Method and means for sampling pulverulent material. 3,442,137, 5-6-69, Cl. 73-422.
Stohlquist, Roger H., to Anderson Bros. Mfg., Co. Method and apparatus for wrapping articles. 3,453,801, 7-8-69, Cl. 53-33.
Stohr, Gerhard: *See—*
Zander, Heinz-Jurgen; and Stohr, Gerhard,3,456,615.
Stohrer, George D. Cam controlled toy vehicle. 3,481,072, 12-2-69, Cl. 46-244.
Stoi, Walter T.; De Lorme, Albert R.; and Sketch, Harry F., to Essex Wire Corporation, mesne. Multiple position reciprocating switch construction. 3,431,371, 3-4-69, Cl. 200-16.
Stoica, John T., to Smith, A. O., Corporation. Friction-free fluid meter. 3,429,228, 2-25-69, Cl. 91-58.
Stoicheff, Boris P.: *See—*
Townes, Charles H.; Garmire, Elsa M.; Chiao, Raymond Y.; and Stoicheff, Boris P.,3,469,107.
Stok, Filippus Leon, to North American Philips Company, Inc. Arrangement for testing information in a plurality of television signals. 3,430,098, 2-25-69, Cl. 315-24.
Stokely, Raymond E., to Borg-Warner Corporation. Anti-backlash universal joint. 3,431,751, 3-11-69, Cl. 64-7.
Stoker, Eugene, to Anvil Products, Inc. Threading machine. 3,478,377, 11-18-69, Cl. 10-102.
Stoker, Robert J., to Ingersoll-Rand Company. Protective device for condenser tubes. 3,472,315, 10-14-69, Cl. 165-110.
Stoker, Robert J.: *See—*
Paul, Burton; and Stoker, Robert J.,3,454,086.
Stokes, Charles W., to Cities Service Research and Development Company. Baffles for reactor vessel. 3,449,085, 6-10-69, Cl. 23-283.
Stokes, David R.: *See—*
Aser, Gilbert A.; and Stokes, David R.,3,424,131.
Stokes, Horace F., Jr.; and Vuolo, Vincent C., to Singer-General Precision, Inc. High resolution television projection system. 3,457,365, 7-22-69, Cl. 178-6.8
Stokes, John F. House prefabricating machine. 3,477,108, 11-11-69, Cl. 25-41.
Stokes, John J., Jr.: *See—*
Stroup, Philip T.; Cochran, Charles Norman; and Stokes, John J., Jr.,3,440,712.
Stokes, Kenneth B., to General Mills, Inc. Stabilized synthetic polyamides. 3,454,412, 7-8-69, Cl. 106-287.
Stokes, Kenneth J., to General Electric Company. Switching device. 3,424,882, 1-28-69, Cl. 200-67.
Stokes, Kenneth J., to General Electric Company. Electric circuit breaker. 3,436,710, 4-1-69, Cl. 337-55.
Stokes, Kenneth J., to General Electric Company. Electric circuit breaker operating mechanism and assembly thereof. 3,475,711, 10-28-69, Cl. 337-55.
Stokes, Luther E.: *See—*
Marks, Ronald H.; Goodman, Lawrence R.; Stokes, Luther E.; and Millard, Roy H.,3,446,041.
Stokes, Nancy Lucille; and Stokes, William F. Eraser control apparatus. 3,427,677, 2-18-69, Cl. 15-434.

Stokes, Rembert R.: *See—*
Busala, Alessandro; Stokes, Rembert R.; and Strommen, Lawrence A.,3,435,146.
Stokes, Rembert R., to Bell Telephone Laboratories, Incorporated. Automatic reporting telephone with response detection means. 3,427,402, 2-11-69, Cl. 179-2.
Stokes, Rembert R., to Bell Telephone Laboratories, Incorporated. Apparatus base configuration for reduction of sliding and tipping. 3,462,111, 8-19-69, Cl. 248-346.
Stokes, Rembert R.; and Waddell, Richard E., to Bell Telephone Laboratories, Incorporated. Automatic reporting telephone with message transmission responsive to identification request signal responses. 3,427,403, 2-11-69, Cl. 179-5.
Stokes, William F.: *See—*
Stokes, Nancy Lucille; and Stokes, William F.,3,427,677.
Stokes, William S. Laminated joint structure defining a fluid leakage barrier. 3,475,260, 10-28-69, Cl. 161-38.
Stokey, William H., to Allied Machine & Engineering Corporation. Chip break for spade drill. 3,460,409, 8-12-69, Cl. 77-67.
Stokland, Sigmund, to Gebr. Claas Maschinenfabrik G.m.b.H., and A/S Den Norske Remfabrik. Arrangement in beater cylinders for threshers. 3,481,344, 12-2-69, Cl. 130-27.
Stolar, Gerald, to Weston Instruments, Inc., mesne. Projected indication instrument with removable lamp housing. 3,474,338, 10-21-69, Cl. 324-97.
Stolarz, Edward M.: *See—*
D'Elia, Anthony N.; and Stolarz, Edward M.,3,430,742.
D'Elia, Anthony N.; and Stolarz, Edward M.,3,458,200.
D'Elia, Anthony N.; and Stolarz, Edward M.,3,467,250.
D'Elia, Anthony N.; and Stolarz, Edward M.,3,486,000.
D'Elia, Anthony N.; and Stolarz, Edward M.,3,487,197.
Stolarz, Walter, to Aktiengesellschaft Brown, Boveri & Cie. Power switch including opposed diodes in circuit with switch contacts. 3,475,574, 10-28-69, Cl. 200-144.
Stolba, Gerhard: *See—*
Bildstein, Hubert; Knotik, Karl; and Stolba, Gerhard,3,468,985.
Bildstein, Hubert; Stolba, Gerhard; and Knotik, Karl,3,424,564.
Stoldt, Clayton Lewis: *See—*
Jenkins, Carlton Gene; Stoldt, Clayton Lewis; and Szeverenyi, Nikolaus A.,3,481,607.
Peltz, John Robert; and Stoldt, Clayton L.,3,446,086.
Stolki, Thomas J.: *See—*
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,048.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,049.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,050.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,051.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,480,569.
Stoll, Andre: *See—*
Jucker, Ernst; Ebnother, Anton; and Stoll, Andre,3,474,105.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,464,983.
Jucker, Ernst; Ebnother, Anton; Bastian, Jean-Michel; Rissi, Erwin; and Stoll, Andre,3,465,003.
Jucker, Ernst; Lindenmann, Adolf; Schenker, Erhard; Gadient, Fulvio; and Stoll, Andre,3,438,976.
Stoll, Christian: *See—*
Sigg, Hans-Peter; and Stoll, Christian,3,432,598.
Sigg, Hans-Peter; and Stoll, Christian,3,465,079.
Stoll, H., & Company: *See—*
Essig, Karl, 3,425,245.
Stoll, Marvin A.: *See—*
Donnelly, Charles A., Jr.; Gaffron, Bernard W.; and Stoll, Marvin A.,3,467,470.
Stoll, Max: *See—*
Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max,3,470,241.
Stoll, Milton. Temperature controller employing closed loop feedback and incremental programming. 3,479,487, 11-18-69, Cl. 219-494.
Stoll, Raymond C., to United States Steel Corporation. Apparatus for and method of removing cooling plates. 3,455,012, 7-15-69, Cl. 29-427.
Stoll, Robert F.; and Snellings, Albion K., to Republic Steel Corporation. Transition fitting for corrugated pipe. 3,436,103, 4-1-69, Cl. 285-177.
Stoll, Samuel J.: *See—*
Stolove, Martin; and Stoll, Samuel J.,3,424,056.
Stoll, Ulrich W.: *See—*
Zimmer, Donald R.; and Stoll, Ulrich W.,3,455,361.
Stoll, Willy G., to Geigy Chemical Corporation. Process for obtaining an anorexigenic effect. 3,448,200, 6-3-69, Cl. 424-329.
Stollar, William Porter: *See—*
Moss, Herbert Irwin; and Stollar, William Porter,3,448,184.
Stolle Corporation, The: *See—*
Stolle, Ralph J.; and Kaminski, Elton G., 3,423,985.
Stolle, Ralph J.; and Kaminski, Elton G., 3,424,118.
Stolle, Ralph J.; and Kaminski, Elton G., 3,430,593.
Stolle, Ralph J., 3,462,042.
Stolle, Ralph J., to Stolle Corporation, The. Tear top can with captive tear strip. 3,462,042, 8-19-69, Cl. 220-54.
Stolle, Ralph J.; and Kaminski, Elton G., to Stolle Corporation, The. Stripper and pre-draw ring for wall-ironing can bodies. 3,423,985, 1-28-69, Cl. 72-348.
Stolle, Ralph J.; and Kaminski, Elton G., to Stolle Corporation, The. Conversion press apparatus for can treating. 3,424,118, 1-28-69, Cl. 113-1.
Stolle, Ralph J.; and Kaminski, Elton G., to Stolle Corporation, The. Method of making a can with integral pull tab. 3,430,593, 3-4-69, Cl. 113-120.
Stolle, Raymond A. Dry ore-concentrating table. 3,486,620, 12-30-69, Cl. 209-467.
Stoller, Frederick L., to Phillips Petroleum Company. Filament crimping method. 3,438,104, 4-15-69, Cl. 28-72.
Stoller, Frederick L., to Phillips Petroleum Company. Method and apparatus for taking-up yarn. 3,448,570, 6-10-69, Cl. 57-34.
Stoller, Jerry H., to Kaiser Aluminum & Chemical Corporation, mesne. Desiccation of grass. 3,450,519, 6-17-69, Cl. 71-69.
Stoller, Milton: *See—*
Ehrlich, Melvin P.; and Stoller, Milton,3,441,445.
Stolove, Martin; and Stoll, Samuel J. Key duplicating machine. 3,424,056, 1-28-69, Cl. 90-13.05
Stolove, Solomon S.: *See—*
Berson, Hugo; and Stolove, Solomon S.,3,469,586.
Stolper Industries, Inc.: *See—*
Harbeck, Charles L.; and Sellon, Raymond N., Jr., 3,486,436.
Wendt, David W.; Harbeck, Charles L.; and Sellon, Raymond N., Jr., 3,450,430.
Stolsmark, Duane E.: *See—*
Stafford, Owen L.; Wing, Donald V.; and Stolsmark, Duane E.,3,442,981.
Stoltz, Herbert Collier: *See—*
Brown, Malcolm Neal; Hargest, Thomas Sewell, III; and Stoltz, Herbert Collier,3,449,952.
Stolz, Karl, to Linde Aktiengesellschaft. Hydrostatic transmission with mechanically linked pump and motors. 3,443,656, 5-13-69, Cl. 180-66.
Stolz, Robert P.: *See—*
White, William V.; Mahlmann, James P.; and Stolz, Robert P.,3,476,566.
Stolze, Georg; and Mayridl, Jakob, to Siemens Aktiengesellschaft. Communication selectors having marking control of individual outlets. 3,422,228, 1-14-69, Cl. 179-18.
Stolzer, Paul, to Keuro Maschinenbau G.m.b.H. & Co. K.G. Sawing machine. 3,429,213, 2-25-69, Cl. 83-647.
Stone & Webster Engineering Corporation: *See—*
Chave, Charles T., 3,444,725.
Geddes, Ray L.; and Jacobs, John K., 3,444,696.
Hallee, Lawrence P., 3,487,121.
Sulzer, Hans D., 3,438,857.
Stone, Alan J., to Murray Company of Texas Inc., mesne. Bearing support bushing. 3,438,686, 4-15-69, Cl. 308-238.
Stone, Alan J.: *See—*
Stone, Guthrie B.; and Stone, Alan J.,3,439,964.
Stone, Albert Rivington, to United States of America, Navy. Arc rotation rate sensor and interlock. 3,474,289, 10-21-69, Cl. 315-151.
Stone, Benjamin G.: *See—*
Stone, Robert W.; and Stone, Benjamin G.,3,424,260.
Stone, Bernard David, to I.W.S. Nominee Company Limited. Method of presensitising fabric comprising keratinous fibers for subsequent setting. 3,484,185, 12-16-69, Cl. 8-127.6
Stone, Charles S., to Tracor, Inc. Noise-eliminating balanced modulator-mixer employing two complementarily controlled switches and a differential amplifier. 3,432,759, 3-11-69, Cl. 325-450.
Stone, Charles S., to Tracor, Inc. Phase indicator. 3,465,264, 9-2-69, Cl. 331-166.
Stone, Clarence Robert, to American Machine & Foundry Company. Electrical relay with enclosure connected to the motor structure thereof. 3,460,082, 8-5-69, Cl. 335-278.
Stone, Clement A., to Merck & Co., Inc. Treatment of hypertension with 2-hydroxy (or amino)-4,5-dihydroxyphenethylamine derivatives. 3,457,354, 7-22-69, Cl. 424-330.
Stone, Clement A., to Merck & Co., Inc. Composition and method for treating glaucoma. 3,467,756, 9-16-69, Cl. 424-283.
Stone Conveyor Company: *See—*
Orloff, Arthur; and Stone, Guthrie B., 3,471,001.
Stone Conveyor Company, Inc.: *See—*
Neeb, Milton H., 3,447,271.
Stone, Guthrie B., 3,430,506.
Stone, Don Marshall. Pipe organs. 3,468,208, 9-23-69, Cl. 84-332.
Stone, Eliot: *See—*
Peters, Richard T.; Stone, Eliot; and Bourdon, Joseph J.,3,466,156.
Stone, Forrest W., to Knapp-Monarch Company. Heater for shaving lather containers. 3,454,745, 7-8-69, Cl. 219-415.

Stone, Franz T., III, to Rimrock Corporation. Automatic reciprocating lubricant applicator. 3,482,652, 12-9-69, Cl. 184-15.
Stone, Fred W.; and Rutherford, John M., Jr., to Union Carbide Corporation. Quaternary nitrogen-containing cellulose ethers. 3,472,840, 10-14-69, Cl. 260-231.
Stone, Frederick A.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,424,966.
Stone, George E.: *See—*
Blau, Robert E.; and Stone, George E.,3,429,463.
Stone, George Martin: *See—*
Bofinger, Karl; Borkmann, Frank Frederick; and Stone, George Martin,3,441,156.
Stone, Guthrie B., to Stone Conveyor Company, Inc. Driving pulley for a belt conveyor. 3,430,506, 3-4-69, Cl. 74-230.5
Stone, Guthrie B.; and Stone, Alan J., to Murray Company of Texas, Inc., mesne. Universal bearing block. 3,439,964, 4-22-69, Cl. 308-72.
Stone, Guthrie B.: *See—*
Orloff, Arthur; and Stone, Guthrie B.,3,471,001.
Stone, Harris E.: *See—*
Cushing, Philip S.; and Stone, Harris E.,3,449,817.
Stone, Herbert. Tool post and tool holder. 3,434,377, 3-25-69, Cl. 82-37.
Stone, Jacob E., to Esso Production Research Company. Seismic system with a radio communications link connecting the operating and seismic wave generating stations. 3,465,286, 9-2-69, Cl. 340-15.5
Stone, James N.; and Eick, George H., to SCM Corporation, mesne. Process for grinding portland cement clinker. 3,423,219, 1-21-69, Cl. 106-94.
Stone, John Y. Puller scoop. 3,465,457, 9-9-69, Cl. 37-53.
Stone, Kenneth F.; and Jackson, Leslie T., to United States of America, Atomic Energy Commission. Target positioner for accelerator external beam. 3,431,502, 3-4-69, Cl. 328-235.
Stone, Leon P.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,466,085.
Stone, Leonard R.; Reim, Thomas E.; Muskovac, Nicholas G.; and Cook, James E., to Republic Steel Corporation. Nuclear gaging system for moisture content of irregular stream of bulk material. 3,431,415, 3-4-69, Cl. 250-83.1
Stone, Leslie F., to Richardson Company, The. Device for detecting markings and ejecting containers. 3,430,766, 3-4-69, Cl. 209-111.7
Stone Manufacturing Co., Inc.: *See—*
Posey, Robert P.; and Faw, Price C., 3,443,532.
Posey, Robert P.; and Faw, Price C., 3,443,533.
Stone, Mark M., to Metalex Corporation. Fireplace grate. 3,439,667, 4-22-69, Cl. 126-165.
Stone, Melvin L.; and Danko, George K., to General Electric Company. Halogen cycle incandescent lamp with planar filament. 3,441,774, 4-29-69, Cl. 313-174.
Stone, Melvin L.; and Danko, George K., to General Electric Company. Incandescent lamp manufacture. 3,483,609, 12-16-69, Cl. 29-25.15
Stone, Michael F.: *See—*
Stone, Phillip D.; and Stone, Michael F.,3,477,334.
Stone, Morris Denor, to United Engineering and Foundry Company. Method of and apparatus for rolling flat strip. 3,459,019, 8-5-69, Cl. 72-12.
Stone, Morris Denor; and Sieger, Maurice Paul, to United Engineering and Foundry Company. Prestressed rolling mill. 3,422,655, 1-21-69, Cl. 72-237.
Stone, Oscar T. Pick-up and dump mechanism. 3,447,705, 6-3-69, Cl. 214-302.
Stone, Paul L., to Honeywell Inc. Adjustable means for a self-balancing potentiometer indicating device. 3,449,670, 6-10-69, Cl. 324-99.
Stone, Phillip D.; and Stone, Michael F. Nail. 3,477,334, 11-11-69, Cl. 85-21.
Stone, Ralph K.: *See—*
Carrigan, Robert J.; and Stone, Ralph K.,3,446,421.
Stone, Ralph W., Jr.: *See—*
Brown, Clinton Eugene; and Stone, Ralph W., Jr.,3,461,855.
Stone, Ray: *See—*
Evans, Don; Stone, Ray; Forman, William; and Taber, Allen M.,3,456,949.
Stone, Richard L., to Wallace-Murray Corporation. Ventilator cap with air deflectors. 3,421,429, 1-14-69, Cl. 98-78.
Stone, Richard L.; and Kinkead, Alan, to Wallace-Murray Corporation. Rain trap for prefabricated metal chimney. 3,425,178, 2-4-69, Cl. 52-244.
Stone, Robert A.; and Carnell, Brian L., to United Aircraft Corporation. Helicopter rotor transmission system. 3,486,832, 12-30-69, Cl. 416-114.
Stone, Robert E. Removable cover for drain fixture. 3,445,973, 5-27-69, Cl. 52-173.
Stone, Robert L., to United States of America, Army. Orally operated binocular control means. 3,425,769, 2-4-69, Cl. 350-72.
Stone, Robert L., to Tracor, Inc., mesne. Differential thermal analysis. 3,456,490, 7-22-69, Cl. 73-15.
Stone, Robert W.; and Stone, Benjamin G., 10% to Muehlenkamp, V. Jack. Hydraulically operated golf carts. 3,424,260, 1-28-69, Cl. 180-66.
Stone, Rodney L.; and Aubrey, William M., Jr., to Bethlehem Steel Corporation. Method of removing fatty acid coating from hematite concentrate. 3,441,401, 4-29-69, Cl. 75-5.
Stone, Roy A., to Keystone Consolidated Industries, Inc. Counterbalancing lid and hinge support. 3,452,388, 7-1-69, Cl. 16-190.
Stone, Samuel E.: *See—*
Webb, James E., administrator of the National Aeronautics and Space Administration with respect to an invention of,; Cohen, David; and Stone, Samuel E.,3,438,263.
Stone, Samuel M., to General Telephone & Electronics Laboratories, Incorporated. Electro-optic modulator. 3,431,418, 3-4-69, Cl. 250-199.
Stone Straw Corporation: *See—*
Mills, Samuel M.; and Husar, Karel, 3,453,163.
Stone, Thomas W., to Controls Company of America. Method of making an electric motor. 3,419,957, 1-7-69, Cl. 29-596.
Stone, Thomas W., to Controls Company of America. Electric motor and housing therefor. 3,433,990, 3-18-69, Cl. 310-258.
Stone, Thomas W., to Controls Company of America. End frame attachment for dynamoelectric machine. 3,463,949, 8-26-69, Cl. 310-42.
Stone, Wayne B., Jr., 24 1/2% to Moller, Turner G., and 24 1/2% to Goldman, Edward L. Automotive support structure for increasing the capacity of parking lots. 3,440,782, 4-29-69, Cl. 52-175.
Stone, William J. D.: *See—*
Iannicelli, Joseph; Millman, Nathan; and Stone, William J. D.,3,471,011.
Stone, William, Jr.: *See—*
Seiderman, Maurice, 3,464,389.
Stone, William, Jr. Artificial corneal implants having a removable lens member. 3,458,870, 8-5-69, Cl. 3-13.
Stone, William, Jr. Instruments provided with optical systems and means for adjusting their optical axes. 3,475,075, 10-28-69, Cl. 350-85.
Stone, Winthrop R., to Union Carbide Corporation. Water spray cleaning of multiple, spaced wall filter elements. 3,426,907, 2-11-69, Cl. 210-332.
Stonebraker, Melvin E.; and Wise, Samuel P., to Drackett Company, The. Glass cleaning composition. 3,463,735, 8-26-69, Cl. 252-137.
Stoner, Arthur M., deceased (by Connecticut Bank and Trust Company, executor); Schneider, Richard C.; and Paquin, Roger L., to Glacier Ware, Inc. Bottle chilling device. 3,434,302, 3-25-69, Cl. 62-457.
Stoner, Eugene M. Feeding mechanism for an automatic gun. 3,455,204, 7-15-69, Cl. 89-33.
Stoner, Harvey R.: *See—*
Henrie, Rodney A.; and Stoner, Harvey R.,3,439,775.
Stoner, Norman H. Disposable horse blanket and girth sheath. 3,466,852, 9-16-69, Cl. 54-65.
Stoner, Richard G.; and Caulkins, Bruce D. Seal structure. 3,424,222, 1-28-69, Cl. 160-40.
Stoney, William E., to North American Rockwell Corporation. Directional radio relay system. 3,452,356, 6-24-69, Cl. 343-100.
Stong, Guy E., to Corning Glass Works. Transparent glass-ceramic articles and method for producing. 3,450,546, 6-17-69, Cl. 106-39.
Stonier, Russ, Designs, Inc.: *See—*
Stonier, Russell W.; and James, Daniel H., 3,437,059.
Stonier, Russell W.; and James, Daniel H., said Stonier assors to Stonier, Russ, Designs, Inc. Decorative pole assembly. 3,437,059, 4-8-69, Cl. 108-151.
Stoof, Gerhard: *See—*
Blau, Hans; and Stoof, Gerhard,3,421,597.
Stookey, Stanley D., to Corning Glass Works. Photochromic glass making. 3,449,103, 6-10-69, Cl. 65-30.
Stoops, James W.; Bitterlich, Gordon M.; Lipkin, Moses R.; and Primas, Alex L., 50% to Sun Oil Company, and 50% to Howe-Baker Engineers, Inc., mesne. Gas preparation process and apparatus. 3,480,416, 11-25-69, Cl. 48-93.
Stoops, Lambert Perry: *See—*
Dodson, Bruce Douglas; and Stoops, Lambert Perry,3,447,560.
Stoothoff, Stanley T., to Miehle-Goss-Dexter, Incorporated. Sheet handling apparatus. 3,445,107, 5-20-69, Cl. 271-87.
Stop-Motion Devices Corporation: *See—*
Tellerman, Edward M., 3,474,298.
Stopp, Alfred, to Aktiengesellschaft Brown, Boveri & Cie. Method of making laminated bus bar assembly. 3,466,745, 9-16-69, Cl. 29-624.
Stopper, Herbert, to General Electric Company. Memory flip-flop. 3,421,026, 1-7-69, Cl. 307-289.
Storage Sysems, Inc.: *See—*
Caudell, Leroy; and Peck, Lawrence G., 3,420,348.
Storch, Adolph D. Finger grip for a heating element of a vaporizer. 3,426,141, 2-4-69, Cl. 174-46.

Storch, Dana H.; and Hallman, Newt M., to Universal Oil Products Company. Purifying make hydrogen in a catalytic reforming process. 3,431,195, 3-4-69, Cl. 208-101.
Storch, Harold A.: *See—*
Estes, Ronald; and Storch, Harold A.,3,426,819.
Storck, Karl, to MSO Maschinen- und Schleifmittelwerke AG. Safety device for controlling the circumferential speed of grinding wheels. 3,423,883, 1-28-69, Cl. 51-134.5
Storck, Robert C.: *See—*
Deli, Jack M.; and Storck, Robert C.,3,451,727.
Stord Bartz Industri A/S: *See—*
Solberg, Per, 3,461,793.
Thor, Onarheim, 3,426,838.
Stored Energy Systems Corporation: *See—*
Lellos, Solon P., 3,447,474.
Storek, Jaroslav; Wiedermann, Jiri; Hrdina, Jan; and Volesky, Radovan, to Vyzkumny Ustav Bavlnarsky. Apparatus for continuous spinning of fibers. 3,457,716, 7-29-69, Cl. 57-58.89
Storen- und Maschinenfabrik Emil Schenker AG: *See—*
Osterholz, Manfred, 3,463,219.
Storey, Owen, to Centre National de la Recherche Scientifique. Rotary transducer recording parallel to the direction of tape movement. 3,457,557, 7-22-69, Cl. 340-174.1
Stork & Co's Apparatenfabriek N.V., Gebr.:*See—*
van der Winden, Johannes Bernardus, 3,426,616.
Stork, Heinz: *See—*
Dittmann, Walter; and Stork, Heinz,3,420,850.
Stork, Sven-Torsten, to Atlas Copco Aktiebolag. Fuel supply apparatus. 3,455,346, 7-15-69, Cl. 141-42.
Stork, Willi, to Windmoller & Holscher. Bottom creasing and closing apparatus in machines for making open, crossed-bottom sacks. 3,469,506, 9-30-69, Cl. 93-27.
Storlie, Llewellyn O.; and Northrup, Lyle M., to Deco Products Company. Window latch assembly. 3,425,164, 2-4-69, Cl. 49-450.
Storm, Howard L.: *See—*
Harding, George D.; and Storm, Howard L.,3,475,651.
Storm Industries, Inc.: *See—*
Peterson, Seymour A.; and Granath, John W., 3,439,651.
Storm, Jack S., Jr.: *See—*
Glynn, Theodore W.; and Storm, Jack S., Jr.,3,477,836.
Storm, James C. Drilling apparatus and method. 3,451,493, 6-24-69, Cl. 175-9.
Storm, Lester F. M.: *See—*
Yamada, Yoshikazu; and Storm, Lester F. M.,3,485,629.
Storm Products Company: *See—*
Baker, Loretta C., 3,455,531.
Swaisgood, Ralph H., 3,478,878.
Storm Van Leeuwen, Frederik W., to Shell Oil Company. Method for the manufacture of reinforced plastic pipes. 3,444,019, 5-13-69, Cl. 156-156.
Storment, Joseph E.; Jones, Charley S.; and Miller, Norman G., to Phillips Petroleum Company. Wax crystallization employing propane refrigerant. 3,443,391, 5-13-69, Cl. 62-58.
Stormfeltz, Robert W., to Raybestos-Manhattan, Inc. Clutch facing. 3,429,766, 2-25-69, Cl. 161-35.
Storms, Phillip W.: *See—*
Taussig, Peter R.; and Storms, Phillip W.,3,448,156.
Storni, Angelo: *See—*
Meisels, Alex; and Storni, Angelo,3,452,021.
Storrs, Arnold B.: *See—*
Stern, Robert M.; and Storrs, Arnold B.,3,483,032.
Storsand, Bjarne, to Oerlikon Engineering Company. Arrangement for the interruption of high currents at high voltages. 3,430,017, 2-25-69, Cl. 200-144.
Storsand, Bjarne, to Maschinenfabrik Oerlikon. Rotational energy accumulator, especially for electrically driven vehicles. 3,436,572, 4-1-69, Cl. 310-74.
Stortz, Stephen J., Sr. Vehicle control safety lock device. 3,463,262, 8-26-69, Cl. 180-82.
Story, Augustus L., to Owens-Illinois, Inc. Solid particulate printing ink composition and process for producing same. 3,461,092, 8-12-69, Cl. 260-28.
Story, Laurence A., to SCM Corporation. Method of preventing wood degradation. 3,473,947, 10-21-69, Cl. 117-57.
Story, Robert M.: *See—*
Fearon, Ralph L.; and Story, Robert M.,3,461,414.
Stoss, Werner: *See—*
Smeykal, Karl; Pallutz, Heinrich; Hahner, Eberhard; Becker, Karl; and Stoss, Werner,3,453,314.
Stoten, Terence A., to Kent, George Limited. Control valves. 3,430,649, 3-4-69, Cl. 137-495.
Stothert and Pitt, Limited: *See—*
Cowley, Harold Raymond; and Lashenko, John, 3,439,594.
Stothoff, William L., III.; and Johnson, Herbert G., to Wilsco Sales and Engineering Company, Inc. Underground pumping station. 3,461,803, 8-19-69, Cl. 103-25.
Stott, Albert M., to United States of America, Army. Battery. 3,449,165, 6-10-69, Cl. 136-6.
Stott, Albert M., to United States of America, Army. Launching apparatus. 3,457,826, 7-29-69, Cl. 89-1.
Stott, Donald, to Lucas, Joseph, (Industries) Limited. Hydrostatic bearings. 3,429,625, 2-25-69, Cl. 308-122.
Stott, Ted; Gunyou, Lyman J.; Frushour, George V.; and Groeneveld, Wilbur E., to Avco Corporation. Self-propelled implement assemblies. 3,425,194, 2-4-69, Cl. 56-15.
Stotts, Robert J. Automatic car wash. 3,474,801, 10-28-69, Cl. 134-123.
Stotzer, Roger H.; Lee, William H.; and Vandeman, Jack E., to Harris-Intertype Corporation. Electrical controls for a multiple couple printing press. 3,467,007, 9-16-69, Cl. 101-137.
Stotzer, Roger H.; and Southam, Donald L., to Harris-Intertype Corporation. Sheet handling machine with continuous delivery. 3,477,712, 11-11-69, Cl. 271-88.
Stoudenheimer, Richard G.; and Ezard, Lawrence A., to RCA Corporation. Image tube having a gating and focusing electrode. 3,474,275, 10-21-69, Cl. 313-65.
Stoudenheimer, Richard G.; and Thoman, Daniel L., to Radio Corporation of America. Photosensitive cathodes. 3,434,876, 3-25-69, Cl. 117-211.
Stoudt, George W.: *See—*
Valentine, Harry M.; Stoudt, George W.; and Kemble, Herbert A.,3,456,991.
Stouffer, Ronald D.; and Gerber, John W., to Martin-Marietta Corporation. Opposed jet pure fluid amplifier. 3,446,228, 5-27-69, Cl. 137-81.5
Stoughton, Joseph B. Orthopedic cushion. 3,421,163, 1-14-69, Cl. 5-348.
Stoughton, Richard Bahu, to Foster-Milburn Company. Percutaneous absorption with lower alkyl amides. 3,472,931, 10-14-69, Cl. 424-180.
Stousland, Olav; and Nash, John L., to Burlington Industries, Inc. Novelty yarns as sewing threads in stitch bonded fabrics. 3,452,561, 7-1-69, Cl. 66-195.
Stout, Anna C.: *See—*
Maiwurm, Paul S.,3,421,179.
Stout, Arthur G.: *See—*
Otepka, Rudolph T.; and Stout, Arthur G.,3,448,907.
Stout, Daniel M., to Whitmire Research Laboratories, Inc. Immobilizing insects by sudden reduction of body temperature. 3,446,892, 5-27-69, Cl. 424-45.
Stout, Gary D.: *See—*
Kahoun, John B.; and Stout, Gary D.,3,462,680.
Stout, Glenn M. Encoding switch. 3,472,973, 10-14-69, Cl. 200-5.
Stout, Glenn M., to Seven C's, Inc. Multiple switch. 3,487,176, 12-30-69, Cl. 200-5.
Stout, Glenn M., to Seven C's Inc. Multiple push rod switch with interlatch and lockout means. 3,487,178, 12-30-69, Cl. 200-5.
Stout, Harry E. Polishing machine. 3,445,877, 5-27-69, Cl. 15-98.
Stout, James M.: *See—*
Herrington, Bernard B.; and Stout, James M.,3,486,481.
Stout, James T., Sr.; and Funkhouser, James B., to Mead Corporation, The. Carrier handle structure. 3,421,684, 1-14-69, Cl. 229-52.
Stout, Orin C.; and Wiltrout, Dale E., to Ultra Dynamics Corporation. Process and plant for sewage treatment. 3,474,033, 10-21-69, Cl. 210-50.
Stout, Rodney W. Gnotobiotic systems. 3,464,388, 9-2-69, Cl. 119-15.
Stout, Virgil L.; and Whetten, Nathan Rey, to General Electric Company. Electron probe microanalyzer for measuring the differential energy response of auger electrons. 3,461,306, 8-12-69, Cl. 250-49.5
Stout, William H. Hollow pin slip coupler having sprinkler head. 3,425,632, 2-4-69, Cl. 239-267.
Stout, William H. Pop-up standpipe. 3,425,633, 2-4-69, Cl. 239-281.
Stovall, Milton A., to Smithe, F. L., Machine Co., Inc. Envelope patch cutting and collating apparatus. 3,431,830, 3-11-69, Cl. 93-61.
Stovall, Milton, to Smithe, F. L., Machine Company, Inc. Rotary panel cutter. 3,465,626, 9-9-69, Cl. 83-156.
Stovall, William B., to Crawford & Russell Incorporated. High viscosity reactors. 3,476,522, 11-4-69, Cl. 23-285.
Stove, Edward Raymond: *See—*
Hardy, Kenneth David; Nayler, John Herbert Charles; and Stove, Edward Raymond,3,448,104.
Stovell, John F.: *See—*
Morris, William Whitby, 3,482,807.
Stover, Harris A., to Collins Radio Company. Circuit for preventing singing in audio systems. 3,429,999, 2-25-69, Cl. 179-1.
Stover, Harris A., to Collins Radio Company. Advanced direction finding sonobuoy system. 3,461,421, 8-12-69, Cl. 340-2.
Stover, Harry E., to Anchor Hocking Glass Corporation. Closure cap feeding means. 3,460,312, 8-12-69, Cl. 53-64.
Stover, Harry L.: *See—*
Shaw, Robert C.; and Stover, Harry L.,3,437,958.
Stover, Jordan H., III, to Lebow Associates, Inc. Compressive force measuring device. 3,461,715, 8-19-69, Cl. 73-141.
Stover, Richard N.: *See—*
Niebel, Benjamin W.; Stover, Richard N.; and Winner, Forney D.,3,472,231.

Stover, William A.: *See—*
Briggs,. Warren S.; Stover, William A.; and Warthen, John L.,3,470,105.
Briggs, Warren Stanley; Stover, William Albert; and Henderson, Donald Stuart,3,455,843.
Oleck, Stephen M.; and Stover, William A.,3,471,410.

Stover, William L.; and Petros, Andrew J., to Mesta Machine Company. Automatic work roll changers. 3,451,244, 6-24-69, Cl. 72-239.

Stow & Davis Furniture Company: *See—*
Wallach, Mark K.; and Yermakov, Alexis M., 3,479,102.

Stow, Robert H., to Minnesota Mining and Manufacturing Company. Electrically conductive adhesive tape. 3,475,213, 10-28-69, Cl. 117-227.

Stow, Robin J. W. C., to International Harvester Company. Hydraulic pressure control system for clutches. 3,463,283, 8-26-69, Cl. 192-87.19

Stow-Easy Display & Mfg. Co.: *See—*
Salet, Thomas E., 3,434,769.

Stowe, Charles T., Jr.: *See—*
Rhyne, Johnathan L., 3,447,307.

Stowe, Milton G. Oil well swab. 3,448,987, 6-10-69, Cl. 277-181.

Stowe, Stephen C., to Dow Chemical Company, The. Method of preparing palladium sulfate solution. 3,425,801, 2-4-69, Cl. 23-117.

Stowell, Finch: *See—*
McGill, Robert; Talarovich, Thomas J.; and Stowell, Finch,3,485,347.

Stowell, Marcel A., to United States of America, Army. Variable load deceleration mechanism. 3,421,361, 1-14-69, Cl. 73-12.

Stowell, Philip, A., to Burroughs Corporation. Command responsive multi-channel electrostatic recorder. 3,480,963, 11-25-69, Cl. 346-74.

Stowell, Philip A., to Borg-Warner Corporation. Information transfer and ink particle refining system. 3,439,650, 4-22-69, Cl. 118-637.

Stowell, Philip A., to Burroughs Corporation. Method and apparatus for improving the performance of electrostatic printing tubes. 3,458,752, 7-29-69, Cl. 315-21.

Stoyanoff, Louis J., to Hoffman Information Systems, Inc. Film strip and sound track carrier. 3,434,784, 3-25-69, Cl. 353-19.

Stoyanov, Benjamin: *See—*
Ulm, Ernest S.; and Stoyanov, Benjamin,3,471,895.

Stoyer, Charles Robert, III: *See—*
Dell, Harry John; and Stoyer, Charles Robert, III,3,467,942.

Stozek, Casimir J., to Cory Corporation. Coffee brewer distributor. 3,444,804, 5-20-69, Cl. 99-302.

Strabag Bau-A.G.: *See—*
Feiner, Alfred; Hamann, Rudolf; and Schopf, Clemens, 3,429,130.
Haas, Hans, 3,427,886.
Suter, Bruno, 3,448,511.

Strabala, Joseph L.; and Grooss, Frank A., to Caterpillar Tractor Company. Motor grader moldboard. 3,425,497, 2-4-69, Cl. 172-792.

Stracek, Robert J., to Chemetron Corporation. Reel assembly. 3,437,105, 4-8-69, Cl. 137-355.23

Strachan & Henshaw Limited: *See—*
Bellinger, Ronald; Sperring, James Alfred; and White, Charles Edward, 3,426,702.
Bellinger, Ronald; and Bayley, Graham Edward, 3,463,333.

Strachan, Robert G.: *See—*
Sarett, Lewis H.; Strachan, Robert G.; and Hirschmann, Ralph F.,3,427,300.

Strachanow, Grigory, to Zenith Radio Corporation. Horizontal deflection system. 3,426,244, 2-4-69, Cl. 315-27.

Strachanow, Grigory, to Zenith Radio Corporation. Transistorized scanning circuit with series-connected circuit. 3,432,719, 3-11-69, Cl. 315-27.

Strack, Donald R., to Protective Treatments, Inc. Mounting unit employing dual gasket construction. 3,478,475, 11-18-69, Cl. 52-208.

Strack, Erich; and Lorenz, Irmgard, to Veb Berlin-Chemie. Process for the preparation of pure carnitine in betaine form. 3,468,937, 9-23-69, Cl. 260-501.13

Stradella, Giuseppe. Band separable fastener. 3,482,289, 12-9-69, Cl. 24-201.

Strader, Don S., to Envirotech Corporation. Exhaust gas conditioner. 3,466,868, 9-16-69, Cl. 60-30.

Strader, James R., to Industrial Inventions Incorporated. Automatic pump control system. 3,453,962, 7-8-69, Cl. 103-25.

Strader, John Ga ry. Hand held propulsion unit. 3,441,952, 4-29-69, Cl. 115-6.1

Strahan, Robert M.: *See—*
Pietrzak, Joe P.; and Strahan, Robert M.,3,475,921.

Strahm, Allen D. Closed face fishing reel attachment. 3,419,992, 1-7-69, Cl. 43-20.

Strahman, Dietrick; and Strahman, Henry, to Strahman Valves, Inc. Water-control fitting for the end of a hose. 3,448,929, 6-10-69, Cl. 239-288.5

Strahman, Henry: *See—*
Strahman, Dietrick; and Strahman, Henry,3,448,929.

Strahman Valves, Inc.: *See—*
Strahman, Dietrick; and Strahman, Henry, 3,448,929.

Straight, Carl J., to International Homes of Cedar, Inc. Timbered building structure. 3,473,277, 10-21-69, Cl. 52-233.

Straight, Harry F., Jr.; and Kivlen, John A., to Esso Research and Engineering Company. Studded heat exchanger tubes. 3,476,180, 11-4-69, Cl. 165-172.

Straight, Harry F., Jr.: *See—*
Buchanan, William L.; and Straight, Harry F., Jr.,3,476,494.

Strain, Franklin: *See—*
Bissinger, William E.; Strain, Franklin; Stevens, Henry C.; Dial, William R.; and Chisholm, Raymond S.,3,474,072.
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H.,3,443,897.
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H.,3,475,123.

Strait, Paul M. Portable milling machine. 3,466,972, 9-16-69, Cl. 90-12.

Strakosch, Hans: *See—*
Anders, Walter; Strakosch, Hans; Porth, Horst; and Bethge, Hartmut,3,469,302.

Straley, James M.: *See—*
Dale, John I., III; Straley, James M.; and Weaver, Max A.,3,446,791.
Fisher, John G.; Wallace, David J.; and Straley, James M.,3,424,756.
Harris, Raymond C.; and Straley, James M.,3,485,832.

Straley, James M., to Eastman Kodak Company. 1-Amino-2 methylolcyclohexylmethoxy-4-hydroxy- anthraquinones. 3,445,485, 5-20-69, Cl. 260-380.

Straley, James M.; and Fisher, John G., to Eastman Kodak Company. Quaternized phenylazo-pyrimidine dyes. 3,481,918, 12-2-69, Cl. 260-154.

Straley, James M.; and Wallace, David J., to Eastman Kodak Company. Phthaloylphenothiazine compounds. 3,438,982, 4-15-69, Cl. 260-243.
Wallace, David J.; Straley, James M.; and Weaver, Max A.,3,424,741.
Wallace, David J.; Weaver, Max A.; and Straley, James M.,3,438,961.
Waver, Max A.; Wallace, David J.; and Straley, James M.,3,453,270.
Weaver, Max A.; Straley, James M.; and Dale, John I., III,3,472,833.

Stram, George H., to Dentsply International Inc., mesne. Oral vacuum system. 3,482,313, 12-9-69, Cl. 32-33.

Stramit Corporation, Ltd.: *See—*
Rimington, John Kenneth, 3,423,892.

Strance, John Sherman, to Bliss, E. W., Company. Gauge control for a rolling mill. 3,422,650, 1-21-69, Cl. 72-16.

Strance, John Sherman, to Bliss, E. W., Company. Programmed control for aircraft launching and arresting gear. 3,474,989, 10-28-69, Cl. 244-110.

Strance, John S.: *See—*
Levy, Murray N.; Shinbaum, Marvin S.; and Strance, John S.,3,465,827.
Shinbaum, Marvin S.; and Strance, John S.,3,430,481.

Strand, Albert T.: *See—*
De Mars, Alfred J., 3,423,099.

Strand, Edna E.: *See—*
Strand, Erling K.,3,474,675.

Strand, Edward R.: *See—*
Browning, Iben; Geiger, William J.; and Strand, Edward R.,3,435,667.

Strand, Elmer E. High temperature surface-combustion radiant heater. 3,422,811, 1-21-69, Cl. 126-92.

Strand, Erling K., deceased0 (by Strand, Edna E.; executrix), to Hart-Carter Company, mesne. Liquid sampler. 3,474,675, 10-28-69, Cl. 73-422.

Strand, John R.: *See—*
Moline, Norman L.; and Strand, John R.,3,464,883.

Strand, Norman S., to Dow Chemical Company, The. Neutron radiation sorbers. 3,423,375, 1-21-69, Cl. 260-79.3

Strand, Robert C.; and Marion, Donald L., to Sinclair Research, Inc. Rubber composition of conjugated diene rubber containing a non-reinforcing filler material and a nitrogen functional styrene-maleic anhydride resin bridging agent. 3,428,596, 2-18-69, Cl. 260-41.5

Strand, Sheldon A. Method and apparatus for counting and dispensing solid oral medication. 3,461,643, 8-19-69, Cl. 53-37.

Strand, Torstein; Levinsky, Ely S.; and Timin, Mitchell E., to Air Vehicle Corporation. VTOL aircraft having free-floating wings and independently tilting propellers. 3,430,894, 3-4-69, Cl. 244-7.

Strandberg, Bengt Sigurd Lennart; and Sundin, Anders Erik, to Hiab-Foco Aktiebolag. Hydraulic loading apparatus. 3,484,003, 12-16-69, Cl. 214-77.

Strandell, Erik Axel: *See—*
Jansson, Robert Mauritz; Strandell, Erik Axel; and Wik, Claes Gustaf,3,456,708.

Strandell, Per Olof. Rolls for rolling mills. 3,461,527, 8-19-69, Cl. 29-123.

Strandell, Per Olof. Strip welding electrode and a method for making the same. 3,474,518, 10-28-69, Cl. 29-429.
Strandlund, John D.: *See—*
Palmen, James J.; and Strandlund, John D.,3,429,438.
Strandskov, Frede B.; and Schulman, Hyman L., 1/2 to Washine Chemical Corporation, and 1/2 to Schaefer, F. & M., Brewing Co., The. Feed composition for increasing fertility in animals. 3,463,860, 8-26-69, Cl. 424-308.
Strandskov, Frede B.; and Ziliotto, Henry L., to Schaefer, T. & M., Brewing Company, The. Chill stability and foam adherence of beer. 3,469,992, 9-30-69, Cl. 99-48.
Strandskov, Frede B.: *See—*
Di Marco, Gabriel Robert; Hogan, John F., Jr.; Schulman, Hyman L.; and Strandskov, Frede B.,3,443,972.
Straney, Kenneth Orral; and Sivertsen, Ove Mareno, to General Electric Company. Turbine control system. 3,422,831, 1-21-69, Cl. 137-22.
Strang, Alastair, to Courtaulds Limited. Powder feeding. 3,430,753, 3-4-69, Cl. 198-53.
Strang, David A.: *See—*
Hair, Eddy R.; and Strang, David A.,3,486,907.
Strang, Elmer J.; and Swanson, Floyd R., Jr., to Coats Company, Inc., The. Method of maintaining round cylinder assembly. 3,439,399, 4-22-69, Cl. 29-156.4
Strange, Booth B., to Western Geophysical Company of America. Extendable intrasection hydrophone arrays. 3,436,722, 4-1-69, Cl. 340-7.
Strange, Booth B.; and Thigpen, Ben B., to Western Geophysical Company of America. Seismic signal transducing apparatus. 3,430,727, 3-4-69, Cl. 181-0.5
Strange, Carl P.: *See—*
Liu, Gordon Y. T.; and Strange, Carl P.,3,420,916.
Strange, Harold O.: *See—*
Fareri, Elizabeth L.; McGuire, Robert J.; and Strange, Harold O.,3,433,607.
Pellegrini, John P., Jr.; and Strange, Harold O.,3,481,958.
Strange, Jack F., to Du Pont de Nemours, E. I., and Company. Process of producing conductive images including addition of salicylic acid to developing solutions to counteract emulsion ageing. 3,486,893, 12-30-69, Cl. 96-38.4
Strange, John, to Tinnerman Products, Inc. Fastening device. 3,428,344, 2-18-69, Cl. 287-53.
Strange, John, to Tinnerman Products, Inc. Sheet metal fastener. 3,454,071, 7-8-69, Cl. 151-41.75
Straniti, Salvatore: *See—*
Stein, Wolfgang J.; and Straniti, Salvatore,3,424,240.
Strapko, Frank S.: *See—*
Strapko, Gregory; and Strapko, Frank S.,3,437,121.
Strapko, Gregory; and Strapko, Frank S. Emergency tire traction device. 3,437,121, 4-8-69, Cl. 152-213.
Strasberg, Murray; and Fitzpatrick, Hugh M. Method and apparatus for observing mechanical oscillations. 3,434,340, 3-25-69, Cl. 73-71.4
Strasel, Raymond K., to Jacobsen Manufacturing Company. Gang lawnmower. 3,429,110, 2-25-69, Cl. 56-7.
Straslicka, William A.: *See—*
Shulock, Charles; and Straslicka, William A.,3,465,769.
Strass, Herbert K.; and Maples, Hoyt E., to United States of America, National Aeronautics and Space Administration. Light intensity modulator controller. 3,427,093, 2-11-9, Cl. 350-275.
Strassberger, Werner: *See—*
Kaupp, Josef; and Strassberger, Werner,3,424,599.
Strassel, Albert Pierre, to Wyandotte Chemicals Corporation. Polyether-polyurethane-polyurea compositions and their uses. 3,475,266, 10-28-69, Cl. 161-190.
Strassen, Heinrich Zur. Process for the production of a low alkali content cement. 3,451,665, 6-24-69, Cl. 263-53.
Strasser, Myron S., Jr.; and Strasser, Samuel A. Packaging insert for collars. 3,448,901, 6-10-69, Cl. 223-83.
Strasser, Samuel A.: *See—*
Strasser, Myron S., Jr.; and Strasser, Samuel A.,3,448,901.
Strassner, Herbert; and Biederstedt, Ulrich, to Siemens Aktiengesellschaft. Apparatus for the recording, by-the-line of symbols on a sheet-like carrier. 3,422,753, 1-21-69, Cl. 101-45.
Strategic Materials Corporation: *See—*
Wesel, John R.; and Olds, Leonard E., 3,427,010.
Stratford Engineering Corporation: *See—*
Massa, Harry E., 3,442,972.
Stratford, Henry Ralph, to York Gears Limited. Shock absorber. 3,439,499, 4-22-69, Cl. 60-54.5
Stratman, Hardin G., to Gates Radio Company. Automatic frequency control. 3,475,694, 10-28-69, Cl. 331-8.
Stratoflex, Inc.: *See—*
New, Truman L.; and Phelps, Joseph F., 3,423,109.
Stratton & Terstegge Company: *See—*
Dew, Robert C., 3,454,223.
Stratton, Charles A., to Phillips Petroleum Company. Method for sulfonating cis 1,4-polybutadiene. 3,432,480, 3-11-69, Cl. 260-79.3
Stratton, Charles A., to Phillips Petroleum Company. Oil recovery method using polyethoxylated halogen- substituted phenol surfactants. 3,456,732, 7-27-69, Cl. 166-274.
Stratton, George B.: *See—*
Geering, Emil J.; and Stratton, George B.,3,468,961.
Hoch, Paul E.; and Stratton, George B.,3,442,884.
Stratton, Hal: *See—*
Bauer, Robert F.; and Stratton, Hal,3,426,858.
Stratton, Jerry L.: *See—*
Michon, Gerald J.; and Stratton, Jerry L.,3,458,731.
Stratton, Philip G., to Ramsey Corporation. Outer side sealing oil control ring. 3,481,611, 12-2-69, Cl. 277-139.
Stratton, Robert L.: *See—*
Reighter, David H.; and Stratton, Robert L.,3,472,925.
Stratulatov, Gennady Yakovlevich: *See—*
Keller, Ulrikh Ulrikhovich; Ledokhovich, Adolf Nikodimovich; Bitjugov, Jury Alexeevich; and Stratulatov, Gennady Yakovlevich,3,479,999.
Straub, Edward L. Engine with compression braking system. 3,426,523, 2-11-69, Cl. 60-15.
Straub, Edward L. Hot gas generator. 3,426,524, 2-11-69, Cl. 60-15.
Straub, Frederick A. Low friction spherical bearing. 3,420,587, 1-7-69, Cl. 308-72.
Straub, Frederick A. Method of making bearing member. 3,445,908, 5-27-69, Cl. 29-149.5
Straub, Harold E.: *See—*
De Hart, Marvin L.; and Straub, Harold E.,3,468,239.
Straub, Helmut, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic shutter with an electronic timing device. 3,437,027, 4-8-69, Cl. 95-53.
Straub, Immanuel. Coupling having inflatable clamping means. 3,420,554, 1-7-69, Cl. 285-97.
Straub, Joseph E., to Solenoid Devices, Inc. Electromagnetic linear-to-rotary motion stepping mechanism. 3,435,391, 3-25-69, Cl. 335-228.
Straughan, Virgil E., to Horizons Research Incorporated. Method and apparatus for the manufacture of plastic belts. 3,455,758, 7-15-69, Cl. 156-215.
Straughan, Virgil E., to Xerox Corporation, mesne. Method of making xerographic plate by vacuum evaporation of selenium alloy. 3,467,548, 9-16-69, Cl. 117-217.
Straus, Albert E., to Morris Coupling and Clamp Company. Repair clamp. 3,459,231, 8-5-69, Cl. 138-99.
Strausberg, Frank, & Son Co.: *See—*
Ingleright, Paul T., 3,459,109.
Strausfeld, Hermann: *See—*
Damm, Kurt; and Strausfeld, Hermann,3,474,494.
Strauss, Bruno, to Electro Development Corporation. Magnetic transducer assembly. 3,464,044, 8-26-69, Cl. 336-92.
Strauss, Bruno; and Banks, Robert B., to Electro Development Corporation. Proximity sensing system. 3,454,869, 7-8-69, Cl. 323-75.
Strauss, Edgar: *See—*
Rossmann, Rudolf H.; and Strauss, Edgar,3,477,475.
Strauss, Eugene O.; Walesa, Anthony C.; and Johnson, Carl E., to Nalco Chemical Company. Mold coating and method of pouring ingots. 3,474,852, 10-28-69, Cl. 164-72.
Strauss, Eugen; and Koreska, Wilhelm, to Kores Manufacturing Corporation. Method of making transfer sheet. 3,484,264, 12-16-69, Cl. 117-36.1
Strauss, Gottfried; Heuss, Helmut; and Simon, Gerhard, to Didier-Werke A.G. Heating device for the equalizing hearth of a pusher-type furnace with cooled slide bars. 3,463,863, 8-26-69, Cl. 13-20.
Strauss, Gunther, to Chemische Werke Huls Aktiengesellschaft. Process for the continuous manufacture of laurolactam in the liquid phase. 3,428,625, 2-18-69, Cl. 260-239.3
Strauss, Gunther; and Thomas, Walter, to Chemische Werke Huls Aktiengesellschaft. Process for the continuous manufacture of laurolactam in the liquid phase. 3,431,255, 3-4-69, Cl. 260-239.3
Strauss, Gunther: *See—*
Simmrock, Karl-Hans; and Strauss, Gunther,3,462,417.
Strauss, Herbert S.: *See—*
Thouret, Wolfgang E.; and Strauss, Herbert S.,3,445,719.
Strauss, Levi, & Co.: *See—*
Bacharach, Melvin L., 3,458,093.
Bacharach, Melvin L., 3,472,360.
Strauss, Lewis H. Right cylindrical laser with center emission. 3,454,897, 7-8-69, Cl. 331-94.5
Strauss, Martin: *See—*
Westhaver, Lawrence A., 3,486,821.
Strauss, Martin: *See—*
Bley, Frederick O.; and Strauss, Martin,3,460,891.
Strauss, Michael G., to United States of America, Atomic Energy Commission. Antilogarithmic function generator. 3,439,187, 4-15-69, Cl. 307-229.
Strauss, Michael G., to United States of America, Atomic Energy Commission. Logarithmic function generator. 3,480,793, 11-25-69, Cl. 307-229.
Strauss, Raymond C. Vehicle driving controls. 3,426,615, 2-11-69, Cl. 74-513.

Strauss, Richard: *See—*
Bottomley, James; and Strauss, Richard,3,435,097.
Strauss, Richard; and Beck, Walter, to National Polychemicals Inc. Process for the conversion of mercapto- benzthiazole to mercaptobenzthiazyl. 3,463,783, 8-26-69, Cl. 260-306.5
Strauss, Robert G.: *See—*
Mason, Robert B.; Winchester, Raymond E., Jr.; and Strauss, Robert G.,3,420,926.
Strauss, Theodore R.: *See—*
De Mair, William M.; and Strauss, Theodore R.,3,461,742.
Strauss, Walter S.; and Shedlarski, George A., to Dentek, Inc. Dental ingredient capsule. 3,476,181, 11-4-69, Cl. 165-186.
Strauss, Werner: *See—*
Grimm, Wilhelm; Guntsch, Fritz Rudolf; Strauss, Werner; and Luther, Gunther,3,426,179.
Strauss, William J., to Dow Chemical Company, The. Plastic welding apparatus. 3,445,315, 5-20-69, Cl. 156-575.
Strauss, William, to Pennsalt Chemicals Corporation. Injection molding apparatus. 3,427,639, 2-11-69, Cl. 18-30.
Strausser, William H. Anti-jackknife device for tractor-trailer vehicles. 3,420,547, 1-7-69, Cl. 280-432.
Straut, Harold J.: *See—*
Riordan, Hugh F.; De Cotiis, Constant John; and Straut, Harold J.,3,465,600.
Strawn, Charles F., to Johnson Service Company. Proportional control circuit. 3,424,985, 1-28-69, Cl. 328-3.
Straws, James C.: *See—*
Gibson, Robert G.; Johnson, Delbert B.; Mackin, John G., Jr.; and Straws, James C.,3,486,343.
Strawsine, Frederick W., to Strawsine Manufacturing Company. Self-closing flexible damper. 3,472,150, 10-14-69, Cl. 98-116.
Strawsine Manufacturing Company: *See—*
Strawsine, Frederick W., 3,472,150.
Strazdins, Edward, to American Cyanamid Company. Method of reacting rosin with formaldehyde. 3,463,768, 8-26-69, Cl. 260-97.
Strazdins, Edward: *See—*
Kulick, Russell Joseph; and Strazdins, Edward,3,445,330.
Streater, August L., to Franklin Electric Co., Inc. Motor with thermal cutout. 3,467,903, 9-16-69, Cl. 318-221.
Streater, August L.: *See—*
Lee, Thomas H.; and Streater, August L.,3,469,048.
Streater Industries, Inc.: *See—*
Fenwick, Jay G., 3,471,978.
Fenwick, Jay G., 3,472,539.
Grubb, Gary L.; and Leikarts, Aldis Juris, 3,485,381.
Streb, Alan J.: *See—*
Ross, Milford N.; Streb, Alan J.; and Young, Charles N.,3,423,249.
Strebe, David E.: *See—*
Williams, Robert F., Jr.; Strebe, David E.; and Surridge, Kenneth G., deceased,3,436,246.
Streck, Clemens, to GAF Corporation. Dyeing porous stone with leuco ester of vat dye. 3,425,784, 2-4-69, Cl. 8-8.
Streck, Clemens, to GAF Corporation. Neutral developing of azoic colors. 3,436,168, 4-1-69, Cl. 8-45.
Streck, Clemens, to GAF Corporation. Method for coloring porous stones. 3,441,362, 4-29-69, Cl. 8-8.
Streck, Roland; and Seeliger, Wolfgang, to Chemische Werke Huls Aktiengesellschaft. Process for low-pressure polymerization of α-olefines. 3,476,730, 11-4-69, Cl. 260-93.1
Streckebach, Karl Ernst Christian: *See—*
Weingaertner, Ernst; Berg, Dieter; and Streckebach, Karl Ernst Christian,3,468,677.
Streckfuss, Hans. Surgical or orthopedic splint having means for exercising uninjured leg portions to prevent muscular atrophy and joint stiffness. 3,426,753, 2-11-69, Cl. 128-85.
Strecton Industries, Incorporated: *See—*
Fulghum, Roland A., 3,424,481.
Streed, William R.; and Nolin, Beauchamp, to Nolin Manufacturing Company, Inc. Refrigerating system with air control means. 3,425,236, 2-4-69, Cl. 62-140.
Street, Evan H., Jr.: *See—*
Prats, Michael; Street, Evan H., Jr.; and Harthorn, Wayne A.,3,438,443.
Street, Gene J., to Estes Industries, Inc. Model boost glider. 3,452,471, 7-1-69, Cl. 46-81.
Street, Hervey Van C.; and Burch, Clarence S. Liquid monitoring apparatus. 3,445,834, 5-20-69, Cl. 340-236.
Street, Louis F., to Egan, Frank W., & Co. Apparatus for treating polymers and the like. 3,447,582, 6-3-69, Cl. 159-7.
Streeter, Edward, to Hughes Aircraft Company. Approach aid display system. 3,486,816, 12-30-69, Cl. 353-11.
Streetman, Foy J., to Seagraves Industries, Inc. Pillow cover. 3,423,774, 1-28-69, Cl. 5-339.
Strehl, Gerald K., to International Business Machines Corporation. Drive system for a magnetic core array. 3,451,048, 6-17-69, Cl. 340-174.
Strehle, Horst: *See—*
Langnau, Kurt; Hennig, Walter; Strehle, Horst; and Schulze, Heinz,3,481,259.
Strehler, Hugo: *See—*
Henkler, Herbert; Wilhelm, Hans; Floss, Josef Georg; Strehler, Hugo; and Brodt, Rudolf,3,486,903.
Strehlow, Robert W., to Rex Chainbelt, Inc. Concrete mixers. 3,446,487, 5-27-69, Cl. 259-161.
Streib, Hugo: *See—*
Hechelhammer, Wilhelm; and Streib, Hugo,3,437,632.
Streibl, Ludwig: *See—*
Kraemer, Stefan; Seidl, Alois; Mayer, Richard; and Streibl, Ludwig,3,473,904.
Streich, Gerhard: *See—*
Wehr, Georg; Gotze, Gotthold; and Streich, Gerhard,3,457,975.
Streich, Robert E.: *See—*
Barnett, Richard D.; and Streich, Robert E.,3,462,682.
Streicher, Michael A., to Du Pont de Nemours, E. I., and Company. Metal lubrication process. 3,481,762, 12-2-69, Cl. 117-49.
Streicher, Michael A., to Du Pont de Nemours, E. I., and Company. Cleaning composition and method of cleaning articles therewith. 3,481,882, 12-2-69, Cl. 252-149.
Streimer, Irving: *See—*
Richter, Donald H.; Streimer, Irving; and Turner, David P. W.,3,449,843.
Streisinger, Erwin, to United States Testing Company, Inc., mesne. Eye movement recorder. 3,450,466, 6-17-69, Cl. 351-7.
Streit, Harry J. Portable diving appliance. 3,464,217, 9-2-69, Cl. 61-69.
Streng, Alfred Josef; and Zurcher, Kurt, to Hilti Aktiengesellschaft. Fastening flexible sheet material. 3,426,412, 2-11-69, Cl. 24-243.
Streng, Fritz F.: *See—*
Adler, Imre; and Streng, Fritz F.,3,476,233.
Strenkert, Lynn A.; and Carls, William H., to Perolin Company, Inc., The. Method of cleaning large storage tanks for petroleum products. 3,436,263, 4-1-69, Cl. 134-22.
Stresau, Richard H. F., to United States of America, Navy, mesne. Flexible detonation wave shaping device. 3,430,563, 3-4-69, Cl. 102-22.
Stress-Plus, Inc.: *See—*
Hayes, Robert E., 3,471,984.
Stressed Pipe Research Ltd.: *See—*
Rice, Edward K.; and Cureton, William E., 3,467,144.
Stretton, Henry Jackson, to Peters, G. D., & Co. (Engineering) Limited. Power operated sliding door gear. 3,439,454, 4-22-69, Cl. 49-362.
Strick Corporation: *See—*
Abolins, Andrew, 3,448,998.
Abolins, Andrew, 3,460,862.
Katz, Solomon; and Levitt, Semond, 3,473,678.
Seng, Paul J., 3,438,671.
Strickel, William R.: *See—*
Mesek, Frederick K.; and Strickel, William R.,3,437,539.
Stricker, Alfred A.; and Walker, William J., to International Business Machines Corporation. Self-positioning and collapsing standoff for a printed circuit connection and method of achieving the same. 3,444,617, 5-20-69, Cl. 29-626.
Stricker, Alfred A.: *See—*
Ficker, Walter W.; Rajac, Thomas J.; and Stricker, Alfred A.,3,443,707.
Stricker, Donald E. Extension unit for auger. 3,430,456, 3-4-69, Cl. 64-1.
Stricker, Felix J. Movably supported dispersion viewer. 3,475,079, 10-28-69, Cl. 350-168.
Strickland, Alvah T.; and Wilson, William G., to United States of America, Navy. Controllable, unitary regulator and relief valve. 3,425,434, 2-4-69, Cl. 137-85.
Strickland, Edward T.: *See—*
Amos, Homer C.; and Strickland, Edward T.,3,446,149.
Strickland, James C. Snore inhibiting device. 3,434,470, 3-25-69, Cl. 128-136.
Strickland, Marion L., to Bourns, Inc., mesne. Electronic crystal selector. 3,474,269, 10-21-69, Cl. 310-9.1
Strickland, Nacy L.; Kettering, Dale O.; and Grosswiller, Leo J., Jr., to Diebold, Incorporated. Bank drive-up window construction. 3,429,082, 2-25-69, Cl. 52-28.
Strickland, Royce M., to United-Greenfield Corporation. Chaser-positioning device for thread-cutting die heads. 3,477,076, 11-11-69, Cl. 10-104.
Strickland, Thomas Howard: *See—*
Bell, Alan; and Strickland, Thomas Howard,3,463,742.
Strickland, William T., Jr., to Shell Oil Company. Process for the thermal recovery of hydrocarbons from an underground formation. 3,448,807, 6-10-69, Cl. 166-11.
Strickler, Allen, to Beckman Instruments, Inc. Vibrator-depolarizer for coulometric titrator. 3,445,364, 5-20-69, Cl. 204--195
Strickler, Allen, to Beckman Instruments, Inc. Continuous flow electrophoresis apparatus. 3,458,427, 7-29-69, Cl. 204-299.
Strickler, Frederick W., to Faber, Eberhard, Inc. Liquid marker and replaceable ink cartridge therefor. 3,468,613, 9-23-69, Cl. 401-199.
Stricklin, Buck, to Minnesota Mining and Manufacturing Company. Thermographic copying process. 3,446,617, 5-27-69, Cl. 96-27.

Strid, Thomas A. Conveyor for bulk grain hauling vehicles. 3,478,905, 11h18-69, Cl. 214-83.18
Striebel, Frederick L.; and Grage, Claus R. Method for transposing railroad track rails. 3,424,101, 1-28-69, Cl. 104-2.
Strien, Hans, to Teves, Alfred, GmbH. Brake-force regulator. 3,467,440, 9-16-69, Cl. 303-6.
Strieter, Frederick J., to Texas Instruments, Incorporated. Method for isolating individual devices in an integrated circuit monolithic bar. 3,442,011, 5-6-69, Cl. 29-578.
Strietzel, Waldemar, to FISBA, Optische Prazisions-Instruments AG. Stereo funduscope. 3,475,082, 10-28-69, Cl. 351-6.
Strifler, Paul E., to Daimler-Benz Aktiengesellschaft. Hydropneumatic spring for vehicles, especially commercial type vehicles. 3,424,449, 1-28-69, Cl. 267-64.
Strifler, Paul E.; Drometer, Klaus; and Scarpatetti, Dieter, to Daimler-Benz Aktiengesellschaft. Dual brake installation for vehicles. 3,473,634, 10-21-69, Cl. 188-152.
Strifler, Paul E.; and Scarpatetti, Diether, to Daimler-Benz Aktiengesellschaft. Spring system for rigid axles of vehicles. 3,420,543, 1-7-69, Cl. 280-112.
Striggow, Lewis G. Earth handling equipment having receptacle and shovel. 3,445,946, 5-27-69, Cl. 37-126.
Striggow, Lewis G. Impedance network for controlled rectifiers. 3,450,975, 6-17-69, Cl. 321-46.
Striggow, Lewis G. Control circuit for alternating current and direct current loads and with zero turn-on and zero turn-off. 3,475,673, 10-28-69, Cl. 321-43.
Strike, Donald P.; Herbst, David R.; and Smith, Herchel, to American Home Products Corporation. 10β-Methyl-13-alkylgonan-4-ones. 3,452,004, 6-24-69, Cl. 260-239.55
Strike, Nicholas L.: *See*—
Hoisve, Harold V.; and Strike, Nicholas L.,3,421,668.
Strike, Nicholas L.; Thun, Richard G.; and Radford, David L., to McGraw-Edison Company. Clothes hanger dispenser. 3,464,588, 9-2-69, Cl. 221-75.
Stringer, Loren F.; and Schonholzer, Emil T., to Westinghouse Electric Corporation. Dual converter electrical drive system. 3,487,279, 12-30-69, Cl. 318-257.
Stringer, Loren F.: *See*—
Hull, Robert E.; and Stringer, Loren F.,3,440,447.
Stringer, Myron Scott, to Burlington Industries, Inc. Electromechanical defect counter. 3,437,798, 4-8-69, Cl. 235-92.
Stripp, Peter William; and May, Reginald Ralph, to Tecalemit (Engineering) Limited. Trailer lubrication systems. 3,461,990, 8-19-69, Cl. 184-7.
Stripp, Peter William: *See*—
Woor, Denis Frederick; Stripp, Peter William; and Grantham, Max Edward,3,456,761.
Strnat, Karl J.; Hoffer, Gary I.; Ostertag, Werner; and Olson, John C., to United States of America, Air Force. Method of producing permanent magnets of rare earth metals containing Co or mixtures of Co, Fe and Mn. 3,424,578, 1-28-69, Cl. 75-213.
Strnat, Karl J.: *See*—
Ostertag, Werner; and Strnat, Karl J.,3,421,889.
Strobel, Albert F.: *See*—
Catino, Sigmund C.; and Strobel, Albert F.,3,441,562.
Strobel, Albert F.; and Catino, Sigmund C., to GAF Corporation. 4,4'-Bis[4,6-di(chloroanilino)-s-triazin-2-ylamino]-2,2'-stilbenedisulfonic acid brighteners. 3,423,407, 1-21-69, Cl. 260-240.
Strobel, Albert F.; and Catino, Sigmund C., to GAF Corporation. Benzophenone stabilizers, stabilized compositions and methods for making same. 3,448,133, 6-3-69, Cl. 260-439.
Strobel, Albert F.; and Catino, Sigmund C., to GAF Corporation. α-Cyano-β-alkyl substituted cinnamic acid amides. 3,462,475, 8-19-69, Cl. 260-465.
Strobel, Albert, to I-T-E Imperial Corporation, mesne. Trip unit latch positioning means for constant latch bite. 3,484,726, 12-16-69, Cl. 335-173.
Strobel, Alfons; and Sommerschuh, Lothar, to Strobel, J., & Soehne. Automatic blind stitch sewing machine. 3,461,827, 8-19-69, Cl. 112-178.
Strobel, Charles W., to Phillips Petroleum Company. Coagulation of latex of acrylonitrile and styrene grafted onto polybutadiene. 3,438,923, 4-15-69, Cl. 260-29.7
Strobel, Donald Henry, to Badger Meter Manufacturing Company. Pulse generator with energy conserving circuit. 3,484,673, 12-16-69, Cl. 320-1.
Strobel, J., & Soehne: *See*—
Strobel, Alfons; and Sommerschuh, Lothar, 3,461,827.
Strobel, John S.: *See*—
Gammel, Walter A., Sr.; and Strobel, John S.,3,437,977.
Strobelt, Walter: *See*—
Finkhauser, Dieter; and Strobelt, Walter,3,426,154.
Strobelt, Walter; Huber, Erwin; and Friese, Andreas, to Siemens Aktiengesellschaft. Control circuit for dial selection of extension telephones. 3,449,527, 6-10-69, Cl. 179-18.
Strobelt, William E.: *See*—
Lebel, Stephen J.; and Strobelt, William E.,3,426,579.
Stroble, Charles H.,, 50% to Berkshire, Glen, & Berkshire, Wendell. Winterizing system for car wash and the like. 3,420,252, 1-7-69, Cl. 137-59.
Strocker, Gunther, to Maschinenfabrik Gustav Schade. Scraper conveyor apparatus. 3,472,357, 10-14-69, Cl. 198-36.
Stroder, Arno: *See*—
Laux, Servatius; and Stroder, Arno,3,487,140.
Stroehlen, Richard, to Maschinenfabrik Augsburg-Nuremberg Aktiengesellschaft. Method of indirect steam generation. 3,430,608, 3-4-69, Cl. 122-31.
Stroehlen, Richard, to Maschinenfabrik Augsburg-Nurnberg A.G. Method of indirect steam generation. 3,452,719, 7-1-69, Cl. 122-31.
Strogis, William J.: *See*—
Potter, Macy; and Strogis, William J.,3,478,414.
Stroh, Donald G., to Central Investment Corporation of Denver, mesne. System for detecting suspended colloidal solids in a gas utilizing an ionization chamber and a step- down amplifier. 3,423,585, 1-21-69, Cl. 250-43.5
Stroh, Donald G., to Denver Burglar Alarm Products, Inc. Method and system for detecting the presence of foreign matter in a body of gas. 3,462,752, 8-19-69, Cl. 340-237.
Stroh, Patricia A. Practice device for catching fish. 3,463,494, 8-26-69, Cl. 273-101.
Stroh, Richard H.: *See*—
Preston, David S.; and Stroh, Richard H.,3,455,209.
Strohl, Heinrich, to Bolkow Gesellschaft mit beschrankter Haftung. Apparatus and method for feeding pulsating fluid propellant rocket engines. 3,479,818, 11-25-69, Cl. 60-39.48
Strohlein, Rudolf: *See*—
Wiederhut, Wolfgang; and Strohlein, Rudolf,3,459,009.
Strohm, Siegfried; and Pfisterer, Erwin, to Porsche KG, Firma. Automatic change speed gear arrangement for motor vehicles. 3,460,406, 8-12-69, Cl. 74-866.
Strohm, Siegfried: *See*—
Pfisterer, Erwin; and Strohm, Siegfried,3,435,713.
Strohmaier, Karl. Centrifuge with efficiency measuring device. 3,480,207, 11-25-69, Cl. 233-1.
Strohmeier, Gerolf: *See*—
Pohler, Alfred; and Strohmeier, Gerolf,3,420,986.
Rinesch, Rudolf; and Strohmeier, Gerolf,3,473,968.
Strohmeier, Harald, to Gebr. Bohler & Co. Aktiengesellschaft. Aligning apparatus for cylindrical workpieces. 3,458,086, 7-29-69, Cl. 221-201.
Strohmeier, Helmut; and Schmitz, Karl-Heinz, to Rheinstahl Huttenwerke AG. Fast releasing connection for high pressure container parts. 3,450,298, 6-17-69, Cl. 220-39.
Strohmeyer, Max: *See*—
Hiller, Karl-Heinz; Kindler, Hubert; Scholz, Heinrich; and Strohmeyer, Max,3,444,255.
Strohschein, Manfred; Glaser, Josef; and Kurth, Hans, to Mannesmann Aktiengesellschaft. Liquid cooled walled continuous slab casting mold with adjustable tapered walls. 3,439,736, 4-22-69, Cl. 164-273.
Strojosvit, Narodni Podnik: *See*—
Flekac, Frantisek, 3,435,640.
Plechac, Bohuslav; Velisek, Vaclav; Machovsky, Vaclav; Kadlcik, Bozetech; and Molcan, Stefan, 3,429,150.
Strolenberg, Otto Karel: *See*—
Stahl, Dieter; Strolenberg, Otto Karel; and Damen, Leonardus W. J.,3,476,723.
Strom, Albert P. Apparatus for suppressing interferenc currents in a measuring circuit by bypassing the interference currents around a branch of the measuring circuit through the suppressing means. 3,439,265, 4-15-69, Cl. 324-54.
Strom, Bertil; and Radtke, Norbert V., to SKF Industries, Inc. Honing method. 3,423,887, 1-28-69, Cl. 51-289.
Strom, Bertil; and Weissing, Otto, to SKF Industries, Inc. Preloaded pivot type feed for grinders. 3,455,064, 7-15-69, Cl. 51-103.
Strom, Johan Nikolai; and Heggstad, Gudmund, to A/S Norsk Aluminium Company. Travelling gantry for operating aluminum electrolysis furnaces. 3,433,879, 3-18-69, Cl. 13-33.
Strom, John R.: *See*—
McKibben, Richard K.; Racine, Bill A.; and Strom, John R.,3,484,998.
Strom, John R.; and Weyrick, Harvey W., to Systematix. Chromatic control of bleching process. 3,465,550, 9-9-69, Cl. 68-13.
Strom Products Co.: *See*—
Johnson, James R., 3,440,705.
Strom, Rolf, to Oy Tampella Ab. Hydraulic guiding boom for a rack drill. 3,462,103, 8-19-69, Cl. 248-13.
Strom, Roy V.: *See*—
Robinson, La Roy E.; and Strom, Roy V.,3,483,783.
Strombeck, Leo: *See*—
Sorensen, Robert P.; and Strombeck, Leo,3,466,838.
Stromberg Datagraphix, Inc.: *See*—
Hamann, Omer F., 3,479,544.
Turnage, Rodger Elmo, Jr.; Stebbins, Jerald T.; and Crump, Lawrence R., 3,476,974.

Stromberg Hydraulic Brake and Coupling Company: *See—*
Branson, Henry E., 3,436,917.
Branson, Henry E., 3,460,346.
Stromberg, Svein Petro, to Svein Stromberg & Co. A/S. Fish box made from plastic material. 3,442,418, 5-6-69, Cl. 220-71.
Stromberg, Verner L., to Petrolite Corporation. Derivatives of polyaminecarboxylic acids. 3,468,932, 9-23-69, Cl. 260-482.
Stromberg, Verner L.; and Guthrie, David B., to Petrolite Corporation. Quarternary ammonium iodide stabilized fuels. 3,486,866, 12-30-69, Cl. 44-72.
Stromberg-Carlson Corporation: *See—*
Bartlett, William F.; and Bryzinski, Thaddeus F., 3,451,045.
Bartlett, William F., 3,459,896.
Bell, Alexander, 3,453,710.
Bell, Alexander, 3,462,629.
Brightman, Barrie, 3,445,606.
Brightman, Barrie, 3,474,415.
Bryant, John F., 3,467,774.
Corpew, Charles R., 3,421,047.
Corpew, Charles Robert, 3,473,077.
Fassett, Matthew, 3,466,446.
Jorgensen, Adam A.; Cieslak, Arthur B.; and Bentley, Robert W., 3,445,728.
Jorgensen, Adam A.; Bentley, R William; and Paul, Joseph C., 3,474,364.
Jorgensen, Adam A.; Lee, Ernest O., Jr.; Neumeier, Guenther F.; and Schneider, Gerhard O. K., 3,485,956.
McGlamery, Benjamin L., 3,470,319.
Pearce, James G.; and Pharis, William W., 3,436,733.
Pearce, James G.; and Pharis, William W., 3,485,955.
Pearce, James G., 3,485,957.
Pearce, James G.; Pharis, William W.; and Schneider, Gerhard O. K., 3,487,170.
Pharis, William W., 3,449,524.
Pharis, William W.; and Neumeier, Guenther F., 3,456,081.
Pugh, Donald J.; and Knisley, Bill C., 3,441,768.
Redman, James H., 3,474,445.
Schneider, Gerhard O. K., 3,461,246.
Shaffer, William E., 3,427,508.
Strome, Murray W.: *See—*
Godby, Ensley A.; Baker, Ralph C.; and Strome, Murray W.,3,432,751.
Stromen, Ronald H.: *See—*
Mosman, Rolland L.; and Stromen, Ronald H.,3,448,876.
Stromer, Carl-Axel, to Telefonaktiebolaget L M Ericsson. Telephone hook switch mechanism. 3,448,225, 6-3-69, Cl. 179-159.
Stromer, Carl-Axel, to Telefonaktiebolaget L M Ericsson. Hook switch arrangement for wall telephones. 3,458,666, 7-29-69, Cl. 179-100.
Strommen, Lawrence A.: *See—*
Busala, Alessandro; Stokes, Rembert R.; and Strommen, Lawrence A.,3,435,146.
Fischer, James L.; and Strommen, Lawrence A.,3,479,469.
Stromnes, Axel, to Atlas Copco Aktiebolag. Drill boom with parallel motion linkage means. 3,476,193, 11-4-69, Cl. 173-43.
Stromquist, Martin G. Extension bit. 3,447,581, 6-3-69, Cl. 145-127.
Stromqvist, Karl Borje, to Aktiebolaget Electrolux. Apparatus for heating food. 3,439,665, 4-22-69, Cl. 126-21.
Stromswold, Chester, to Sanders Associates, Inc. Diode bandswitch loop antenna. 3,447,159, 5-27-69, Cl. 343-742.
Stromswold, Chester; and Purington, Ronald G., to Sanders Associates, Inc. Wide band direction finder mast. 3,465,345, 9-2-69, Cl. 343-885.
Strong, Arthur J. Combination sink protector and pot support. 3,425,065, 2-4-69, Cl. 4-1.
Strong, Doyle L.: *See—*
Russell, Roger W.; and Strong, Doyle L.,3,440,137.
Strong Electric Corporation, The: *See—*
Hochstein, Alexander E., 3,448,336.
Strong, Erwin R., Jr.; Johnston, Walker F., Jr.; and Goodman, Robert C., to Standard Oil Company (Indiana). Treating of heavy oils to remove metals, salts and coke forming materials employing a combination of an alcohol, organic acid and aromatic hydrocarbon. 3,449,243, 6-10-69, Cl. 208-251.
Strong, Frederick James; and Bainbridge, Ian Frank, to Comalco Aluminium (Bell Bay) Limited. Aluminium base alloy. 3,471,286, 10-7-69, Cl. 75-148.
Strong, Gardner H. Anchoring means. 3,456,547, 7-22-69, Cl. 85-1.
Strong, Gardner H. Agriculture spraying apparatus for large area. 3,472,456, 10-14-69, Cl. 239-177.
Strong, George T.: *See—*
Alexander, Alvis H.; Duplantis, John C.; and Strong, George T.,3,420,305.
Strong, Herbert M.; and Tuft, Roy E. General Electric Company Thermocouple pressure-sensing means. 3,478,595, 11-18-69, Cl. 73-399.
Strong-Scott Manufacturing Company: *See—*
Langsetmo, Peder K.; Ogden, Harry F., Jr.; and Emery, Lewis A., 3,425,135.
Stroop, John H., to Total Packaging Inc. Production and filling of plastic containers. 3,423,902, 1-28-69, Cl. 53-112.
Stroop, John H., to Total Packaging Inc. Roll-ball dispenser for paste products. 3,464,592, 9-2-69, Cl. 222-82.
Stroop, John H. Method of making plastic contact lenses. 3,475,521, 10-28-69, Cl. 264-1.
Stropkay, Edward J.: *See—*
Johnson, Tom W.; Stropkay, Edward J.; and White, James D.,3,430,260.
Strosberg, Gordon G.: *See—*
Brewer, George E. F.; Burnside, Gilbert L.; Mohar, Arnulf F.; and Strosberg, Gordon G.,3,444,066.
Strosberg, Gordon G., to Ford Motor Company. Method for electrodeposition of paint. 3,444,065, 5-13-69, Cl. 204-181.
Strossner, Manfred: *See—*
Stenger, Herbert; Strossner, Manfred; and Wendler, Friedrich,3,442,454.
Stroszynski, Joachim: *See—*
Endermann, Fritz; Munder, Johannes; and Stroszynski, Joachim,3,440,944.
Stroszynski, Joachim, to Azoplate Corporation, mesne. Process and apparatus for successively withdrawing individual articles from a stack. 3,431,139, 3-4-69, Cl. 117-119.8
Strother, Greene W., Jr.: *See—*
Longoria, Juan, III; and Strother, Greene W., Jr.,3,462,383.
Strothmann, Otto, to Anker-Werke Aktiengesellschaft. Method and device for replenishing ink in an ink dispenser of a business machine. 3,427,969, 2-18-69, Cl. 101-367.
Stroud, Benjamin L. Protection device. 3,432,959, 3-18-69, Cl. 43-84.
Stroud, Herbert O.; and Vaughan, Carroll P., said Stroud assor to Brome, B. O., and said Vaughan assor of 25% to Richardson, J. C., Jr. and Smith, James F., Jr. Mechanical floating tool for mastic and the like. 3,451,757, 6-24-69, Cl. 401-139.
Stroud, Richard M.: *See—*
Krizak, Eugene J.; Porter, Lawrence C.; and Stroud, Richard M.,3,482,822.
Stroup, Eugene R., to United States of America, National Aeronautics and Space Administration. Electrochemical coulometer and method of forming same. 3,463,673, 8-26-69, Cl. 136-182.
Stroup, Howard R. Bale stacker. 3,486,636, 12-30-69, Cl. 214-6.
Stroup, John F.; and Sponaugle, Lloyd B., to NRM Corporation. Blown film dies. 3,475,789, 11-4-69, Cl. 18-14.
Stroup, John F.: *See—*
Heston, Eugene E.; Stroup, John F.; McCormick, William S.; and Wurgler, Heinrich J.,3,445,890.
Stroup, Philip T.; Cochran, Charles Norman; and Stokes, John J., Jr., to Aluminum Company of America. Brazing aluminum. 3,440,712, 4-29-69, Cl. 29-494.
Stroup, Philip T.; and Terrill, James R., to Aluminum Company of America. Joining aluminum. 3,431,629, 3-11-69, Cl. 29-471.1
Stroup, Ralph F.: *See—*
Bracken, Ronald C.; Stroup, Ralph F.; and Wakefield, Gene F.,3,459,504.
Strouse, Leland: *See—*
Johnston, Donald L., 3,427,098.
Strout, Ella H.: *See—*
Strout, Leeman F.,3,433,420.
Strout, Leeman F., deceased0 (by Strout, Ella H., executrix). Spray nozzle and valve. 3,433,420, 3-18-69, Cl. 239-476.
Strout, Russell B.: *See—*
Lowry, Robert D.; and Strout, Russell B.,3,421,411.
Strozewski, Conrad A. Soffit adapters. 3,471,982, 10-14-69, Cl. 52-282.
Strscheletzly, Michael; and Matthias, Heinz-Bernd, to Voith, J. M., G.m.b.H. Suction bend for centrifugal pumps. 3,421,446, 1-14-69, Cl. 103-111.
Strub, Henry Michael, Jr., to Duplan Corporation, The. Method of steam treating textured yarn. 3,453,817, 7-8-69, Cl. 57-157.
Strub, Rene; and Graf, Emil, to Sulzer Brothers, Ltd. Starting system for a gas turbine plant. 3,472,024, 10-14-69, Cl. 60-39.08
Struben, Francis L., to Silver Top Manufacturing Company, Inc., The. Aluminum bumper with horizontal step portion. 3,427,062, 2-11-69, Cl. 293-69.
Struben, Francis L., to Silver Top Manufacturing Company, Inc. Skirting for below dwelling. 3,451,180, 6-24-69, Cl. 52-478.
Struben, Francis L.; and Plowman, Paul M., to Silver-Top Manufacturing Company, Inc. Portable test apparatus for determining effects of atmospheric pollution. 3,426,591, 2-11-69, Cl. 73-170.
Strubhar, Malcolm K.; and Slover, Vasel R., Jr., to Mobil Oil Corporation. Method and apparatus for obtaining pressure build-up data in pumping wells. 3,478,584, 11-18-69, Cl. 73-155.
Struble, Arthur D., Jr. Balloon locomotion. 3,424,405, 1-28-69, Cl. 244-31.
Struble, Arthur D., Jr., to Cutler-Hammer, Inc. Pressurized vessel. 3,446,457, 5-27-69, Cl. 244-30.
Struble, Arthur D., Jr. Balloon. 3,484,058, 12-16-69, Cl. 244-31.
Struble, Paul F.: *See—*
Barnes, Lewyn E.; and Struble, Paul F.,3,450,398.

Struck, Charles R., to Houdaille Industries, Inc., mesne. Intermittently operable fluid ballast mechanism. 3,430,652, 3-4-69, Cl. 137-624.14
Struck, Charles R.; and Anderson, Donald R., to Houdaille Industries, Inc. Variable speed transmission with intermittent output. 3,459,060, 8-5-69, Cl. 74-125.5
Struckman, Keith A., to Sanders Associates, Inc. Field perturbation reduction in antenna pattern measurements by use of dielectric transmission line. 3,484,695, 12-16-69, Cl. 325-67.
Structural Bearing Co.: *See—*
Blanchette, Robert J., 3,484,882.
Structural Concrete Components Limited: *See—*
Sainty, Christopher Lawrence, 3,458,610.
Structural Fibers, Inc.: *See—*
Wiltshire, Arthur J., 3,424,335.
Wiltshire, Arthur J., 3,442,998.
Wiltshire, Arthur J., 3,449,182.
Structural Glass Limited: *See—*
Olecko, Ray, 3,426,903.
Struers, H., Chemiske Laboratorium: *See—*
Damgaard, Lauritz Gudmund, 3,459,339.
Nielsen, Erik, 3,478,598.
Struger, Odo J.: *See—*
Huette, Walter F.; Struger, Odo J.; and Brandt, Ivan L.,3,444,437.
Struger, Odo J.; and Moser, Joseph R., to Allen-Bradley Company. Electrical circuit to provide pulse signals having precise time duration. 3,478,228, 11-11-69, Cl. 307-265.
Moser, Joseph R.; and Struger, Odo J.,3,466,602.
Strull, Gene. Westinghouse Electric Corporation Semiconductor integrated circuits with improved isolation. 3,460,006, 8-5-69, Cl. 317-235.
Strull, Gene: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,470,318.
Strumor, Mathew A., to R & D of America, Inc. Marine propulsion device. 3,422,785, 1-21-69, Cl. 114-235.
Strunck, H., & Co., Maschinenfabrik: *See—*
Pechmann, Wilhelm, 3,421,840.
Strunk, Carleton L.: *See—*
Seeliger, Kurt G.; and Strunk, Carleton L.,3,437,857.
Strunk, Kurt, to International Standard Electric Corporation. Means to through-connect and cancel the through- connection of crosspoints in a crossbar switch. 3,440,581, 4-22-69, Cl. 335-112.
Struthers Energy Systems, Inc.: *See—*
Foster-Pegg, Richard W., 3,446,012.
Foster-Pegg, Richard W., 3,446,014.
Foster-Pegg, Richard W., 3,482,669.
Struthers, James A.: *See—*
Pitchforth, Lehi L., Jr.; and Struthers, James A.,3,472,798.
Struthers Patent Corporation: *See—*
Reimus, Richard G.; and Saporito, Anthony, 3,449,129.
Struthers, Robert A. Bathtub seat. 3,458,876, 8-5-69, Cl. 4-185.
Struthers Scientific and International Corporation: *See—*
Grover, Kenneth M.; and Ganiaris, Neophytos, 3,431,655.
Klingel, John B., 3,423,805.
Reimus, Richard G.; and Saporito, Anthony, 3,432,308.
Reimus, Richard G.; and Saporito, Anthony, 3,474,723.
Struthers Wells Corporation: *See—*
Long, Charles A., 3,457,961.
Strutzel, Hans: *See—*
Klenk, Ludwig; Seifried, Walter; and Strutzel, Hans,3,486,196.
Struyk, Antony Albertus, to Vulcanus Aktiengesellschaft. Space heating system. 3,474,960, 10-28-69, Cl. 236-9.
Strybel, Richard V.: *See—*
Kowal, Leonard J.; and Strybel, Richard V.,3,438,260.
Strybel, Richard V.; and Kowal, Leonard J., to Imperial Eastman Corporation. Integral double flare adapter. 3,421,354, 1-14-69, Cl. 72-317.
Strycker, Stanley J., to Dow Chemical Company, The. Nitramine compound. 3,436,417, 4-1-69, Cl. 260-468.
Strycker, Stanley J., to Dow Chemical Company, The. Aryl phenoxathinium compounds. 3,440,249, 4-22-69, Cl. 260-327.
Strycker, Stanley J., to Dow Chemical Company, The. 1,5-Bis(substituted-sulfonyl)-3-substituted-1,3,5- hexahydrotriazepine. 3,485,817, 12-23-69, Cl. 260-239.
Stryjewski, Walter Anthony, to Eastman Kodak Company. Roll fusing device for xerographic material. 3,452,181, 6-24-69, Cl. 219-216.
Stryker, Abner B., Jr.; and Messina, Philip, to Dart Industries, Inc., mesne. Upgrading of alpha-olefin polymers and copolymers. 3,462,404, 8-19-69, Cl. 260-93.7
Stryker, Edwin M., Jr., to Honeywell Inc. Intervalometer. 3,468,255, 9-23-69, Cl. 102-70.2
Stryker, Seymour F., to Air-Mite Devices, Inc. Control valve structure with aligned axial port. 3,433,267, 3-18-69, Cl. 137-625.69
Stryker, Seymour F., to Air-Mite Devices, Inc. Cylinder construction using roll pins. 3,474,710, 10-28-69, Cl. 92-128.
Stuart, Bernice E.: *See—*
Johnson, Beth E.; and Stuart, Bernice E.,3,434,911.
Stuart, Charles E. Articulator guide. 3,421,225, 1-14-69, Cl. 32-32.
Stuart, Charles J., Jr., to United States of America, Navy. Stationary plankton sampler. 3,466,782, 9-16-69, Cl. 43-4.
Stuart, Derek M.: *See—*
Stuart, Whitfield M. P.; and Stuart, Derek M.,3,466,974.
Stuart, Donald J., to United States Steel Corporation. Reinforcing members for a wooden pole. 3,475,874, 11-4-69, Cl. 52-514.
Stuart, Frank A.; Stewart, William T.; Lowe, Warren; and Kavanagh, Frank W., to Chevron Research Company. Detergent copolymer acyl amido alkyl ethers of polyalkylene glycol. 3,428,615, 2-18-69, Cl. 260-86.1
Stuart, Fred E., Sr. Agitator structure for filter bed. 3,434,600, 3-25-69, Cl. 210-272.
Stuart, Fred E. Method and apparatus for water treatment. 3,434,699, 3-25-69, Cl. 259-4.
Stuart, Guy E., Jr.; and De Vine, Barry F., to Midland-Ross Corporation. Position responsive actuator. 3,431,678, 3-11-69, Cl. 49-360.
Stuart, James C. Compartmented air mattress. 3,428,974, 2-25-69, Cl. 5-348.
Stuart, Linden, Jr.; and Curtis, Frank F., to Stuart Steel Protection Corporation. Pipe wrapping machine. 3,470,057, 9-30-69, Cl. 156-392.
Stuart, Marshall J.: *See—*
Givot, Martin D.; and Stuart, Marshall J.,3,425,725.
Stuart, Robert J., to Dex-A-Grind, Inc. Apparatus and method for grinding inserts. 3,434,245, 3-25-69, Cl. 51-124.
Stuart, Robert W., to Five Hundred Incorporated, mesne. Cryogenic contamination measuring apparatus. 3,459,033, 8-5-69, Cl. 73-25.
Stuart, Robert W.; and Hogan, Walter H., 500 (five hundred) Incorporated, mesne. Thermal switch for cryogenic apparatus. 3,430,455, 3-4-69, Cl. 62-383.
Stuart, Robert. Letter folder and envelope stuffer. 3,481,595, 12-2-69, Cl. 270-61.
Stuart, Ronald Sangster: *See—*
Jack, James; Stuart, Ronald Sangster; and Plumb, John Beckett,3,478,075.
Plumb, John Beckett; and Stuart, Ronald Sangster,3,470,226.
Stuart, Ronald Sangster, to Imperial Chemical Industries Limited. Organosilicon polymers useful as surfactants in the manufacture of polyurethane foams. 3,481,966, 12-2-69, Cl. 260-448.8
Stuart Steel Protection Corporation: *See—*
Stuart, Linden, Jr.; and Curtis, Frank F., 3,470,057.
Stuart, Whitfield M. P.; and Stuart, Derek M. Pantographic milling machine. 3,466,974, 9-16-69, Cl. 90-13.1
Stuart, William R., to Varian Associates, mesne. Electron tube with cathode support ring having out- wardly extending support legs, channel-shaped in cross section and a U-shaped yoke supporting the control grid. 3,445,712, 5-20-69, Cl. 313-250.
Stuart-Williams, Raymond; and Chur, Sung Pal, to Data Products Corporation. Servo positioning system. 3,479,664, 11-18-69, Cl. 340-174.1
Stubbe, Friedrich: *See—*
Falkenberg, Harry, 3,482,285.
Stubbins, Derek, to Davy and United Engineering Company Limited. Rotary shear. 3,461,767, 8-19-69, Cl. 83-344.
Stubbins, Derek; and Nunns, Brian, to Davy and United Engineering Company Limited. Batching apparatus. 3,456,775, 7-22-69, Cl. 198-34.
Stubbins, Derek: *See—*
Nicholson, George Galloway; Jackman, Ronald; and Stubbins, Derek,3,421,708.
Stubblefield, Maurice. Safety stirrup. 3,423,904, 1-28-69, Cl. 54-49.
Stubblefield, Robert A. Load leveling shock absorber. 3,476,354, 11-4-69, Cl. 251-63.
Stubblefield, Thomas A. Filter cigarette. 3,461,880, 8-19-69, Cl. 131-9.
Stubbs, Dennis, to Davy and United Engineering Company Limited. Manipulators. 3,444,718, 5-20-69, Cl. 72-419.
Stubbs, Dennis, to Davy and United Engineering Company, Limited. Rolling mills. 3,479,854, 11-25-69, Cl. 72-244.
Stubbs, Dennis; Swift, Eric Owen; and Carroll, Eric, to Davy and United Engineering Company Limited. Adjustment unit. 3,486,360, 12-30-69, Cl. 72-245.
Stubbs, Dennis; Wilson, William Gordon; and Bathory, Bela Istvan, to Davy and United Engineering Company Limited. Manipulators. 3,476,276, 11-4-69, Cl. 214-652.
Stubbs, Frank F. Body joint support. 3,463,147, 8-26-69, Cl. 128-80.
Stubbs, Harry Eugene: *See—*
Fohl, Timothy, 3,460,384.
Stubbs, Orace V. Bullet. 3,426,685, 2-11-69, Cl. 102-91.
Stubbs, Royston A.; and Kidd, Derek J., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Analogue decompression computing device. 3,457,393, 7-22-69, Cl. 235-184.
Stubbs, William H.: *See—*
Winkler, Deloss E.; Hayter, Roy G.; and Stubbs, William H.,3,455,891.
Stube, Fred F.: *See—*
Steltzer, Ernest R.; Nitsch, Edward J.; and Stube, Fred F.,3,443,085.

Stuck, Matthew A., to Modern Manufacturing Company, Inc. Floral sacker. 3,431,706, 3-11-69, Cl. 53-390.
Stuck, William P. Tire valve. 3,456,676, 7-22-69, Cl. 137-223.
Stucka, George R.: *See—*
McMeen, Forrest H.; Gresham, William F.; and Stucka, George R.,3,427,061.
Stuckenberger, Anton, to Fritzmeier, Georg, KG, Firma. Turnover protection frame for mobile working machines, in particular for tractors. 3,451,715, 6-24-69, Cl. 296-102.
Stuckenschneider, Emil C.: *See—*
Nissen, George P.; Stuckenschneider, Emil C.; and Kelly, Harlan J.,3,473,801.
Stucker, John F., to Nalco Chemical Company. Process for preparing crystalline pyridinium 2-nitro-1 butyl sulfate. 3,480,639, 11-25-69, Cl. 260-294.8
Stucker, Nova E.: *See—*
Higgins, John J.; and Stucker, Nova E.,3,444,117.
Stuckert, Paul E., to International Business Machines Corporation. Sense circuit for bistable memory devices. 3,432,685, 3-11-69, Cl. 307-231.
Stuckert, Paul E., to International Business Machines Corporation. Control circuit for a sampling system. 3,466,553, 9-9-69, Cl. 328-151.
Stuckey, Albert D. C.; and Gruber, Paul J., to Cincinnati Milling Machine Co., The. Method for positioning a roll on a roll grinder. 3,422,583, 1-21-69, Cl. 51-289.
Stuckey, Alto N., Jr.; Blackwell, Noah E., III; and del Valle, Ignacio G., to Esso Research and Engineering Company. Process for the preparation of low sulfur fuel oil. 3,475,323, 10-28-69, Cl. 208-97.
Stucki, A., Company: *See—*
Wiebe, Donald, 3,477,289.
Stucki, Frank F., to Lockheed Aircraft Corporation. Ferrimagnetic pressure transducer. 3,432,435, 3-11-69, Cl. 252-62.61
Stucky, Fritz C.; and Nelson, Kenneth W., to Elcon A.G. Manufacture of structural units. 3,460,308, 8-12-69, Cl. 52-745.
Stude, John V.; and Allison, Clayton E. Westinghouse Electric Corporation Commutator with one anchor location. 3,486,057, 12-23-69, Cl. 310-235.
Studebaker Corporation: *See—*
Center, Dwight W., 3,474,890.
Studebaker, Robert H., to Process Equipment Company of Tipp City Inc. Distance measurer using converging sight beams and movable photoreceptors. 3,437,825, 4-8-69, Cl. 250-220.
Studebaker, Robert H., to Process Equipment Company of Tipp City, Inc. Laser beam projector for surveying operations. 3,471,234, 10-7-69, Cl. 356-3.
Studen, Charles E. Drinking utensil jacket. 3,473,682, 10-21-69, Cl. 215-12.
Studer, Heinz P., to Shell Oil Company. Method for separating micro-organisms from earth samples. 3,451,545, 6-24-69, Cl. 209-8.
Studer, Victor Vernon: *See—*
Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin,3,484,247.
Graham, Harold Nathaniel; Studer, Victor Vernon; and Gurkin, Martin,3,484,248.
Studiecentrum Voor Kernenergie S.C.K.: *See—*
Baetsle, Leon Henri; and Huys, Daniel Joseph, 3,431,086.
Studiengesellschaft Kohle m.b.H.: *See—*
Lehmkuhl, Herbert, 3,470,224.
Neumann, Wilhelm Paul, 3,459,779.
Wilke, Gunther, 3,422,128.
Wilke, Gunther, 3,424,777.
Wilke, Gunther, 3,432,530.
Wilke, Gunther; and Breil, Heinz, 3,450,728.
Wilke, Gunther; Muller, Ernst Willi; Kroner, Michael; Heimbach, Paul; and Breil, Heinz, 3,450,732.
Wilke, Gunther, 3,468,921.
Studies, Inc.: *See—*
Conrad, Tom J.; Dayton, Glenn O., Jr.; and Arlin, Max, 3,431,046.
Studler, Arthur R. Retort incinerator. 3,456,603, 7-22-69, Cl. 110-7.
Studley Paper Company, Inc.: *See—*
Cordell, Martin, 3,440,805.
Fesco, John J., 3,421,683.
Fesco, John J., 3,430,843.
Fesco, John J., 3,452,520.
Fesco, John J., 3,457,706.
Fesco, John J., 3,457,707.
Fesco, John J., 3,477,209.
Fesco, John J., 3,479,802.
Studtmann, George Henry; and Burtness, Roger W., to Borg-Warner Corporation. Speed control system utilizing constant- amplitude voltage of variable frequency to energize an electric motor. 3,467,904, 9-16-69, Cl. 318-230.
Stueber, Curtis C., to PPG Industries, Inc. Silica filled synthetic rubber compositions and tire treads. 3,451,458, 6-24-69, Cl. 152-330.
Stueckle, Harvey H. Self leveling tractor seat. 3,466,089, 9-9-69, Cl. 297-314.
Stuemky, Robert E.: *See—*
Hass, David P.; and Stuemky, Robert E.,3,425,504.
Stuenkel, Leon H.: *See—*
Holden, Arthur S., Jr.; and Stuenkel, Leon H.,3,474,544.
Stuertz, William D., to Wilson Jones Company. Binding machine. 3,460,173, 8-12-69, Cl. 11-1.
Stuetz, Dagobert E., to Celanese Corporation. Direct production of graphite fibers. 3,449,077, 6-10-69, Cl. 23-209.1
Stufflebeam, John F.: *See—*
Lienemann, Darlo E.; and Stufflebeam, John F.,3,430,822.
Stuijts, Andreas Leopoldus, to U.S. Philips Corporation, mesne. Low porosity nickel zinc ferrite. 3,472,780, 10-14-69, Cl. 252-62.62
Stukenberg, John R.: *See—*
Culp, Gordon L.; Hansen, Sigurd P.; and Stukenberg, John R.,3,472,764.
Stukenbroeker, George L.; and Suriani, Ernest, to National Lead Company. Process for the fixation of high level radioactive wastes. 3,451,940, 6-24-69, Cl. 252-301.1
Stull Chemical Company: *See—*
Wilson, Forrest Arthur, 3,479,176.
Stull, Morton B. Dispensing closure cap. 3,433,394, 3-18-69, Cl. 222-519.
Stull, Morton B. Push-pull dispensing cap. 3,439,842, 4-22-69, Cl. 222-196.3
Stull, Robert Stanley: *See—*
O'Keefe, Michael Francis; and Stull, Robert Stanley,3,437,982.
O'Keefe, Michael Francis; Stull, Robert Stanley; and Greene, Loy Richard,3,459,906.
Stuller, Howard E., to Clark Equipment Company. Adjustor mechanism. 3,444,750, 5-20-69, Cl. 74-242.14
Stuller, Howard E.: *See—*
Hancock, James E.; and Stuller, Howard E.,3,426,457.
Stummer, Wilfried: *See—*
Van Riet, Josef H.; Stummer, Wilfried; Sandmann, Fritz; and Gallin, Constantin,3,440,990.
Stummeyer, Herbert: *See—*
Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert,3,468,885.
Stump, Eugene C., Jr.: *See—*
Oliver, Ward H.; and Stump, Eugene C., Jr.,3,472,822.
Stump, Gerald R., to General Motors Corporation. Mixer with flushing valve in the outlet. 3,450,388, 6-17-69, Cl. 259-8.
Stump, Joseph H., Jr., to Tenneco Chemicals, Inc. Rosin size compositions. 3,451,890, 6-24-69, Cl. 162-168.
Stump, Paul E., to Babcock & Wilcox Company, The. Cold working metal. 3,433,038, 3-18-69, Cl. 72-42.
Stump, Paul W., to Cleveland Container Corp. Tampon applicator. 3,429,312, 2-25-69, Cl. 128-263.
Stumpe, August Christian: *See—*
Carl, Heinz; and Stumpe, August Christian,3,426,277.
Stumpe, August Christian; Seelig, Anton; and Donges, Hans, to Licentia Patent-Verwaltungs-G.m.b.H. Electrical protection device for establishing a short circuit in response to the appearance of a low level overvoltage. 3,476,979, 11-4-69, Cl. 317-31.
Stumpf, Charles A., to Leis Manufacturing Co., Inc. Magnetic dirt collector. 3,460,294, 8-12-69, Cl. 51-270.
Stumpf, Gunter O.; Lange, Erwin; and Eppinger, Hermann, to Bullmerwerk Bullmer, Karl. Fabric marking machine. 3,452,671, 7-1-69, Cl. 101-26.
Stumpf, Robert J.: *See—*
Sokolowski, Robert C.; and Stumpf, Robert J.,3,465,399.
Stunkel, Barry A.: *See—*
Lindquist, Jonas Theodore; and Stunkel, Barry A.,3,464,291.
Stupakis, Yani S., to Du Pont de Nemours , E. I., and Company. Jet fluid mixing device and process. 3,423,028, 1-21-69, Cl. 239-427.3
Stupar, Timothy D.; and Thomas , Carl T., to Information Control Corporation. Light pen casing and circuit in which the output signal is enabled when two spaced surface portions are both engaged by the operator's hand. 3,475,612, 10-28-69, Cl. 250-214.
Stuper, Josef; and Wieland, Markus, to Zeiss Ikon Aktiengesellschaft. Photographic camera with exposure adjusting device. 3,425,327, 2-4-69, Cl. 95-10.
Sturbois, Pierre: *See—*
Hai, Nhu Bui; and Sturbois, Pierre,3,426,351.
Sturdevant, Eugene J.: *See—*
Masino, John Albert; Sturdevant, Eugene J.; and Williams, Stanley Victor,3,479,520.
Sturdy, Clifford: *See—*
Dowsing, John; Briggs, Peter Richard Ashworth; and Sturdy, Clifford,3,464,245.
Sturgeon, Robert G., to Barnes-Hind International, Inc. Contact lens case. 3,460,552, 8-12-69, Cl. 134-135.
Sturgeon, Wayne E.: *See—*
Helke, Robert C.; and Sturgeon, Wayne E.,3,478,690.
Sturges, Richard A.; and Richards, Lewis B., to Herrick Corporation, The. Jail locking system. 3,426,478, 2-11-69, Cl. 49-16.
Sturges, Thomas B., to Crown Zellerbach Corporation. Bag placer mechanism and method. 3,466,837, 9-16-69, Cl. 53-29.
Sturgill, Charles G.: *See—*
Howard, Lowell F.; and Sturgill, Charles G.,3,440,495.

Sturgill, Dennis T.: *See—*
Harget, Paul J.; and Sturgill, Dennis T.,3,479,631.

Sturgill, Dennis T., to Owens-Illinois, Inc. Method of forming a glass-ceramic article having an internal cavity. 3,441,397, 4-29-69, Cl. 65-23.

Sturkey, William C., to Celanese Corporation. Treatment of cellulose triacetate with selected compounds to introduce stretch properties. 3,477,806, 11-11-69, Cl. 8-131.

Sturm, Ernst F.: *See—*
Fox, Robert B.; and Sturm, Ernst F.,3,466,049.

Sturm, Ferdinand V., to Siemens Aktiengesellschaft. Catalyst electrode for electrochemical cells. 3,480,538, 11-25-69, Cl. 204-290.

Sturm, Karl: *See—*
Vogel, Gerhard; Geiger, Rolf; and Sturm, Karl,3,483,291.

Sturm, Lewis D. Elevator fluid control valve mechanism. 3,477,466, 11-11-69, Cl. 137-599.

Sturm, Rudolph J., Jr. Line fault detection method and apparatus utilizing a test signal having a nonsinusoidal waveform with at least one pip per cycle. 3,441,842, 4-29-69, Cl. 324-52.

Sturm, Ruger & Co., Inc.: *See—*
Ruger, William B., 3,444,641.

Sturman, Geoffrey Wilfred: *See—*
Walsh, Charles Bernard; and Sturman, Geoffrey Wilfred,3,448,906.

Sturman, Grigory Isaevich: *See—*
Levin, Nikolai Nikolaevich; and Sturman, Grigory Isaevich,3,473,059.

Sturman, John C., to United States of America, National Aeronautics and Space Administration. Pulsed differential comparator circuit. 3,463,939, 8-26-69, Cl. 307-235.

Sturman, Sofya Leonidovna: *See—*
Levin, Nikolai Nikolaevich; and Sturman, Grigory Isaevich,3,473,059.

Sturmer, Hans, to Bosch, Robert, G.m.b.H. Electromagnetic clutch. 3,426,875, 2-11-69, Cl. 192-48.2

Sturn, Le Roy R., Jr.: *See—*
Wickberg, Norman E.; and Sturn, Le Roy R., Jr.,3,458,069.

Sturrock, Alex T., to Sheller-Globe Corporation, mesne. Nonpainted, colored, hard rubber steering wheel. 3,433,757, 3-18-69, Cl. 260-31.4

Sturrock, Francis C., to Bell & Howell Company. Mechanism for relative adjustment of axially spaced lens element. 3,445,155, 5-20-69, Cl. 350-225.

Sturrock, John C., to Steelmade, Inc. Apparatus for dispensing straws and the like. 3,445,036, 5-20-69, Cl. 221-191.

Sturtevant Industries, Inc.: *See—*
Fellner, Phillip J., 3,453,915.

Sturtevant Mill Company: *See—*
Sullivan, Daniel J., 3,434,593.

Sturtz, Charles R., Jr., to Clark Equipment Company. Apparatus for reeving conduits in a triple section extendible mast. 3,481,498, 12-2-69, Cl. 214-620.

Sturzenegger, Carlmax: *See—*
Zimmermann, Karl; Sturzenegger, Carlmax; and Eicher, Werner,3,441,141.

Sturzenhofecker, Franz: *See—*
Birkner, Helmut; and Sturzenhofecker, Franz,3,442,874.
Dittmann, Walter; and Sturzenhofecker, Franz,3,474,149.

Sturzinger, Oskar, to Anstalt Europaische Handelsgesellschaft. Apparatus for obtaining reduced telecommunication alphabets and circuits. 3,480,729, 11-25-69, Cl. 178-26.

Stuteville, John W.: *See—*
Brothers, William B.; and Stuteville, John W.,3,458,225.

Stutler, Stephen Charles: *See—*
Booy, Max Lorenz; Coe, Benjamin Franklin; and Stutler, Stephen Charles,3,433,055.

Stutske, William A.; and Henry, Kenneth J., to Lynch Corporation, mesne. Vibratory grouping apparatus. 3,469,672, 9-30-69, Cl. 198-30.

Stutz, Hansruedi S.; Loepfe, Erich; and Hranitzky, Wilhelm M., to Loepfe Brothers Ltd. Method and apparatus for controlling weft insertion in looms. 3,485,964, 12-23-69, Cl. 139-273.

Stutz, Klaus H.; and Eyselee, Wolfgang M., to Eastman Kodak Company. Photographic camera using multiple flashlamp units. 3,473,454, 10-21-69, Cl. 95-11.

Stutz, Theo, to Contraves AG. Graphical plotter. 3,449,754, 6-10-69, Cl. 346-29.

Stutz, William, to United States Envelope Company. Segmented blank feeding rolls for envelope forming machine. 3,472,505, 10-14-69, Cl. 271-2.

Stwora, Eugeniusz: *See—*
Dybal, Kazimierz; Stwora, Eugeniusz; and Suchon, Kazimierz,3,446,492.

Stynen, Adolf: *See—*
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,669.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf,3,429,670.

Styner, Anthony A.: *See—*
Weiner, Albert; and Styner, Anthony A.,3,461,781.

Stynes, James A., to National Lead Company. Boratozirconium chloride. 3,423,193, 1-21-69, Cl. 23-367.

Su, Aaron Chung Liong, to Du Pont de Nemours, E. I., and Company. Alkoxy vanadyl fluorides and their preparation. 3,455,974, 7-15-69, Cl. 260-429.

Suan, Robin K., to Standard Pressed Steel Co. Multi-piece bolt. 3,468,211, 9-23-69, Cl. 85-9.

Suatoni, Joseph Charles, to Gulf Research & Development Company. Reduction in vinylidene content in an alpha-olefin mixture containing the same. 3,424,810, 1-28-69, Cl. 260-677.

Suber, Stephen H. Electrical three-part, key-locked switch. 3,453,402, 7-1-69, Cl. 200-44.

Subklew, Hermann, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei K.G. Apparatus for applying transparent material to window openings of envelope blanks and the like. 3,429,237, 2-25-69, Cl. 93-61.

Sublett, Bobby J.; and Sloan, Cephas H., to Eastman Kodak Company. Filter elements and additive therefor. 3,428,055, 2-18-69, Cl. 131-266.

Sublett, Bobby Jones; and Sloan, Cephas H., to Eastman Kodak Company. Tobacco smoke filter incorporating coated polyolefin additive. 3,428,056, 2-18-69, Cl. 131-267.

Sublett, Bobby J.: *See—*
Sloan, Cephas H.; and Sublett, Bobby J.,3,426,763.

Subovici, Vadim, to Ministerul Industriei Constructiilor De Masini. Laminated magentic core and process for making same. 3,460,367, 8-12-69, Cl. 72-324.

Subramanian, Pallatheri M.: *See—*
Schimelpfenig, Clarence W., Jr.; and Subramanian, Pallatheri M.,3,444,125.

Suburban Mechanical Contractors, Inc.: *See—*
Cox, Arthur S.; and Taggart, John H., 3,471,369.

Such, John Edward; and Palgrave, Derek Aubrey, to Electric Reduction Company of Canada Ltd. Modification in the production of crystalline ammonium phosphates. 3,421,847, 1-14-69, Cl. 23-107.

Suchanek, Jindrich: *See—*
Kovarik, Alois; and Suchanek, Jindrich,3,459,476.
Kovarik, Alois; and Suchanek, Jindrich,3,468,603.

Sucher, Josef; Werner, Siegfried; Schlosser, Hellmut; Chojnowski, Manfred; and Hain, Josef, to Varta Aktiengesellschaft. Machine for withdrawing rods from texture mats or the like. 3,479,723, 11-25-69, Cl. 29-241.

Suchmann, Robert V.: *See—*
Bernstein, Bernard; and Suchmann, Robert V.,3,484,864.

Suchon, Kazimierz: *See—*
Dybal, Kazimierz; Stwora, Eugeniusz; and Suchon, Kazimierz,3,446,492.

Suchowolec, Walter T., to Turner Corporation. Safety valve for propane cylinders. 3,430,647, 3-4-69, Cl. 137-377.

Suchowolec, Walter T., to Turner Corporation. Trigger operated torch. 3,475,110, 10-28-69, Cl. 431-344.

Suchowsky, Giselbert Karl: *See—*
Bernardi, Luigi; Coda, Severina; Pegrassi, Lorenzo; and Suchowsky, Giselbert Karl,3,427,313.

Suck, Hans: *See—*
Kochalski, Horst; Rudszinat, Willy; Suck, Hans; Rode, Ludwig; David, Harri; and Erdmann, Otto,3,481,447.

Suckow, Fred G.: *See—*
Cope, Geoffrey W.; and Suckow, Fred G.,3,465,900.

Sud-Atlas-Werke GmbH: *See—*
Jeske, Carl-Heinz, 3,467,784.

Sud-Aviation, Societe Nationale de Constructions Aeronautiques: *See—*
Jube, George A.; and Popot, Max R., 3,443,765.
Legrand, Louis Francois Georges, 3,477,665.
Legrand, Roger, 3,456,673.
Ligne, Marie-Joseph F. L., 3,444,773.
Robert, Andre Charles; and Tauzia, Jacques, 3,432,758.
Violleau, Andre, 3,467,343.

Sud-West-Chemie G.m.b.H.: *See—*
Bauer, Hans; and Holzer, Helmut, 3,422,179.

Suda, Hiroharu: *See—*
Toshida, Shunichi; Suda, Hiroharu; and Suzuki, Kazuo,3,457,800.

Suda, Kyo: *See—*
Takami, Katsumi; Yamada, Yahiko; Suda, Kyo; and Koga, Masashi,3,453,434.

Sudarsky, Raymond David: *See—*
Kanbar, Maurice S.; and Sudarsky, Raymond David,3,425,417.

Sudbau Suddeutsche Bautechnik G.m.b.H.: *See—*
Kurz, Karl, 3,446,687.

Sudbury, John D.: *See—*
Banks, William P.; and Sudbury, John D.,3,437,572.
Shock, D'Arcy A.; and Sudbury, John D.,3,436,919.

Suddarth, Jack M., to Coburn Manufacturing Company, Inc. Single lever self-locking cam handle. 3,436,984, 4-8-69, Cl. 74-528.

Suddarth, Jack M., to Coburn Manufacturing Company, Inc. Deck support for abrading tool. 3,449,865, 6-17-69, Cl. 51-55.

Suddarth, Jack M., to Coburn Manufacturing Company, Inc. Automatic cribbing device. 3,449,866, 6-17-69, Cl. 51-101.
Suddarth, Jack M., to Coburn Manufacturing Company, Inc. Top supported coolant hood. 3,466,811, 9-16-69, Cl. 51-266.
Suddarth, Jack M., to Coburn Manufacturing Company, Inc. Lens blocker. 3,468,366, 9-23-69, Cl. 164-332.
Suddarth, Jack M.; and Stith, Joe D., to Colurn Manfacturing Company, Inc. Manual-automatic lens generator. 3,458,956, 8-5-69, Cl. 51-33.
Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft: *See*—
Hoger, Herwig; and Kronacher, Hermann, 3,453,070.
Kaess, Franz; and Kick, Otto, 3,436,898.
Pausch, Josef, 3,436,899.
Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft Trostberg: *See*—
Scheinost, Kurt, 3,438,987.
Suddeutsche Kuhlerfabrik Julius Fr. Behr: *See*—
Bardong, Helmut, 3,426,549.
Sudduth, Herschel C.: *See*—
Hoerman, Kirk C.; and Sudduth, Herschel C.,3,449,571.
Sudduth, Lamar F.; and Sharp, Shelby P., to Pan American Petroleum Corporation. Reclamation of adsorptive material used in desulfurization of hydrocarbons. 3,450,629, 6-17-69, Cl. 208-305.
Suden, Edward M.: *See*—
Merrin, Seymour; Silver, Melvyn D.; and Suden, Edward M.,3,436,818.
Sudmeier, Gustav H. Automotive air conditioning system. 3,449,924, 6-17-69, Cl. 62-227.
Sudo, Yozo: *See*—
Kudo, Tetsuo; Nakamura, Kazuo; Ogita, Teisuke; and Sudo, Yozo,3,439,301.
Sudrabin, Leon P., to Wallace & Tiernan Inc., mesne. Methods and systems for protecting metal structures. 3,425,921, 2-4-69, Cl. 204-147.
Sudrabin, Leon P., to Pennwalt Corporation, mesne. Salt bridge reference electrode. 3,471,394, 10-7-69, Cl. 204-195.
Sudyk, John R., to Johnson Rubber Co., The. Rubber covered chain fender. 3,447,794, 6-3-69, Cl. 267-1.
Suemoto, Toshio: *See*—
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo,3,436,323.
Suenska-Tandsticks Aktiebolaget: *See*—
Grop, Olof Sune, 3,484,834.
Suess, Charles Robert. Floor drain for installation in a floor. 3,481,632, 12-2-69, Cl. 285-42.
Suess, Edmund V. Folding guard screen assembly. 3,477,492, 11-11-69, Cl. 160-135.
Suess, Frank A. Method and apparatus for adding tetramethyl lead to hydrocarbon fuels. 3,465,789, 9-9-69, Cl. 137-604.
Suess, Rudolf: *See*—
Jucker, Ernst; and Suess, Rudolf,3,423,415.
Lindenmann, Adolf; Suess, Rudolf; and Troxler, Franz,3,454,566.
Suessenguth, Hermann: *See*—
Baer, Karl; Hoffmann, Herwig; and Suessenguth, Hermann,3,427,356.
Suetake, Kunihiro. Microwave absorbing wall. 3,460,142, 8-5-69, Cl. 343-18.
Sueur, Rene, to Societe Chimique des Charbonnages. Recovery of maleic anhydride by plural stage thin layer vacuum evaporation and plural stage condensation. 3,476,775, 11-4-69, Cl. 260-346.8
Suffron, Fay O., to American Metal Products Corporation. Antisyphon device. 3,425,438, 2-4-69, Cl. 137-216.
Suga, Nagaichi. Apparatus for exposing samples to light. 3,426,590, 2-11-69, Cl. 73-150.
Suga, Tateo: *See*—
Saito, Bunjiro; and Suga, Tateo,3,439,200.
Sugahara, Eisuke, to Nippon Piston Ring Company Limited. Oil scraping ring combined with coiled expander. 3,467,397, 9-16-69, Cl. 277-139.
Sugahara, Kinichi: *See*—
Ishimitsu, Akitoshi; Sugahara, Kinichi; Arakawa, Saburo; and Kitazawa, Tadao,3,482,964.
Sugahara, Mitsuaki: *See*—
Fukada, Joji; Akutsu, Seiji; Sugahara, Mitsuaki; Kurita, Yoshiji; and Kawabe, Naoshi,3,464,121.
Sugahara, Yujiro; Usui, Koichi; Naito, Hiroyuki; and Sakamoto, Masao, to Mizusawa Kagaku Kogyo Kabushiki Kaisha. Process for the preparation of titanium compounds which are substantially free from metallic impurities. 3,471,252, 10-7-69, Cl. 23-105.
Sugahara, Yujiro; Yamada, Taketoshi; Noshi, Yoshibumi; and Matsuo, Shyoji, to Mizusawa Kagaku Kogyo Kabushiki Kaisha. Stabilizing agent for a halogen containing synthetic resin consisting of a basic inorganic acid salt of lead coated with a fatty acid soap of lead, cadmium or calcium. 3,461,081, 8-12-69, Cl. 252-400.
Suganuma, Fujio: *See*—
Nagashima, Tatsuo; and Suganuma, Fujio,3,444,323.
Sugarman, Madeleine: *See*—
Landers, David B., 3,481,656.
Sugasawa, Tsutomu: *See*—
Nagata, Wataru; Terasawa, Tadao; and Sugasawa, Tsutomu,3,471,565.
Sugawara, Mutuo: *See*—
Tamaru, Keikichi; and Sugawara, Mutuo,3,452,186.
Sugawara, Toru: *See*—
Suzuki, Toshitaka; and Sugawara, Toru,3,447,812.
Suzuki, Toshitaka; and Sugawara, Toru,3,448,389.
Sugawara, Yoshio: *See*—
Matsumura, Kiichiro; Sugawara, Yoshio; Kamaishi, Tadami; and Atarashi, Yuji,3,475,394.
Sugaya, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Magnetic head with notched pole tips. 3,440,360, 4-22-69, Cl. 179-100.2
Sugden, Martin James Jaffrey. Game piece with visually distinguishable playing symbols. 3,481,603, 12-2-69, Cl. 273-130.
Sugerman, Gerald, to Halcon International, Inc. Oxidation of paraffins to provide alcohols. 3,442,959, 5-6-69, Cl. 260-639.
Sugerman, Gerald, to Halcon International, Inc. Oxidation of n-butane. 3,483,250, 12-9-69, Cl. 260-533.
Sugg, Basil R.; and Lloyd, John, to Longworth Scientific Instrument Company Limited. Anaesthetics administering apparatus. 3,438,372, 4-15-69, Cl. 128-188.
Suggitt, Robert M.: *See*—
Brandenburg, John T.; Crone, John M., Jr.; and Suggitt, Robert M.,3,476,821.
Suggs, Charles W.: *See*—
Splinter, William E.; and Suggs, Charles W.,3,482,379.
Sugi, Eiichi: *See*—
Ohoshima, Nobumasa; and Sugi, Eiichi,3,445,163.
Ohoshima, Nobumasa; and Sugi, Eiichi,3,446,550.
Sugi, Masao; and Kumamaru, Hiroyuki, to Sumitomo Electric Industries, Ltd. Method of manufacturing communication cable and manufacturing apparatus. 3,475,893, 11-4-69, Cl. 57-58.84
Sugihara, Yasumasa. General Corporation, The Color television signal recording and reproducing system. 3,440,340, 4-22-69, Cl. 178-5.4
Sugihara, Yasumasa, to General Corporation, The. Color television receiving and reproducing system. 3,484,545, 12-16-69, Cl. 178-5.4
Sugihara, Yasumi: *See*—
Mori, Kan; Kawakami, Masato; Sugihara, Yasumi; Kimura, Shoji; Shibata, Tooru; and Kogure, Akira,3,466,272.
Sugimoto, Keiichi: *See*—
Nomura, Hiroaki; Sugimoto, Keiichi; and Uno, Norihiro,3,427,315.
Sugimoto, Kimio: *See*—
Ochi, Hiroshi; Taki, Hiroshige; Sugimoto, Kimio; Hayase, Yoshimi; and Nakazawa, Bungo,3,420,733.
Sugimoto, Mitsuo: *See*—
Matsuoka, Nozomu; and Sugimoto, Mitsuo,3,430,175.
Sugimoto, Norio; Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, to Tanabe Seiyaku Co., Ltd. Direct resolution of the ammonium salt of racemic N-benzoyl DL-serine. 3,440,279, 4-22-69, Cl. 260-519.
Sugimoto, Tadashi, to Fujitsu Limited. Apparatus for line printing. 3,442,206, 5-6-69, Cl. 101-93.
Sugimura, Kazuo; and Sugimura, Nobuyuki. Bladder type accumulator with core tube. 3,424,201, 1-28-69, Cl. 138-30.
Sugimura, Kazuo; and Sugimura, Nobuyuki. Accumulator. 3,428,091, 2-18-69, Cl. 138-30.
Sugimura, Kazuo; and Sugimura, Nobuyuki. Concentric multi-tube accumulator. 3,461,914, 8-19-69, Cl. 138-30.
Sugimura, Kazuo; and Sugimura, Nobuyuki. Hydraulic control unit. 3,483,892, 12-16-69, Cl. 137-601.
Sugimura, Nobuyuki: *See*—
Sugimura, Kazuo; and Sugimura, Nobuyuki,3,424,201.
Sugimura, Kazuo; and Sugimura, Nobuyuki,3,428,091.
Sugimura, Kazuo; and Sugimura, Nobuyuki,3,461,914.
Sugimura, Kazuo; and Sugimura, Nobuyuki,3,483,892.
Sugino, Tadashi; and Kaneko, Keiji, to Fuji Shashin Film Kabushiki Kaisha. Motion picture film magazine. 3,484,056, 12-16-69, Cl. 242-193.
Sugiura, Hiroaki: *See*—
Tomita, Tamaki; Shima, Yoshio; and Sugiura, Hiroaki,3,474,315.
Sugiura, Shotaro; Tasaka, Fumio; Ueno, Haruo; Kono, Minoru; Katagiri, Nobuyuki; and Sakinaga, Nobumasa, to Ube Industries, Ltd. Process for polymerizing conjugated diolefins with a catalyst consisting a cobalt-or nickel- containing material and an organoaluminum compound in the presence of a diester of thiodipropionic acid. 3,459,726, 8-5-69, Cl. 260-94.3
Sugiura, Shotaro; Ueno, Haruo; Nakatomi, Shunsuke; Ishikawa, Hideo; and Inoue, Tosihiro, to Ube Industries, Ltd. Process for the polymerization of conjugated dienes. 3,423,387, 1-21-69, Cl. 260-94.3
Sugiura, Taku: *See*—
Tada, Yoshinosuke; Mizuno, Syoji; Kashima, Syunsaku; Yasui, Seiichi; and Sugiura, Taku,3,420,453.

Sugiyama, Haruo: *See—*
Sasaki, Yozo; Furuoya, Takashi; Sugiyama, Haruo; and Murakami, Hiroshi,3,465,308.
Sugiyama, Hiroshi; Yamamoto, Masakazu; and Otsuka, Hideo, to Sumitomo Chemical Company, Ltd.Lower alkoxyphenylazo-1-phenyl-3-carboxy-5- pyrazolone dyes containing substituted on the alkoxyphenyl group the sulfuric acid ester of a β-hydroxyethyl sulfone group. 3,483,182, 12-9-69, Cl. 260-163.
Sugiyama, Kunishige: *See—*
Kono, Shigeharu; and Sugiyama, Kunishige,3,444,211.
Sugiyama, Mitsunori; Nakajima, Yosuke; and Nagae, Tadashi, to Fuji Shashin Film Kabushiki Kaisha. (N-Phenyl-p-Toluenesulfonamido)alkyl mercury compounds as silver halide emulsion sensitizers. 3,420,668, 1-7-69, Cl. 96-108.
Sugiyama, Mitsunori: *See—*
Nishio, Fumihiko; Sugiyama, Mitsunori; Yamamoto, Nobuo; and Hayashi, Jun,3,484,242.
Sugiyama, Noriyuki: *See—*
Uzu, Keizo; Takahira, Hiroshi; Kato, Hiromasa; Sugiyama, Noriyuki; Haneda, Tomotsune; and Ishii, Sumihiro,3,424,743.
Sugiyama, Shigeo: *See—*
Usui, Akira; Kurokochi, Michiharu; and Sugiyama, Shigeo,3,431,160.
Sugiyama, Shiuji, to Cabin Kogyo Kabushiki Kaisha. Automatic slide strip feeding device for use in optical image projectors. 3,426,462, 2-11-69, Cl. 40-79.
Sugiyama, Takeji: *See—*
Komamiya, Yasuo; and Sugiyama, Takeji,3,444,392.
Sugland, Wolfgang: *See—*
Hannemann, Franz; Landwehr, Gunter; Sugland, Wolfgang; and Myska, Gunter,3,443,540.
Suh, John T.: *See—*
Schnettler, Richard A.; and Suh, John T.,3,420,863.
Skorcz, Joseph A.; and Suh, John T.,3,472,843.
Suh, John T., to McNeil Laboratories, Inc. 2-Heteroaryl 6,7-dimethoxy-3-indole-carbonitriles and derivatives thereof. 3,454,586, 7-8-69, Cl. 260-294.9
Suh, John T., to McNeil Laboratories, Inc. 2-Phenyl-3-amido-5,6-dimethoxyindoles. 3,467,670, 9-16-69, Cl. 260-326.14
Suh, John T.; and Judd, Claude I., to Colgate-Palmolive Company. Novel carbocyclic ferrocenes. 3,420,865, 1-7-69, Cl. 260-439.
Suh, John T.; and Skorcz, Joseph A., to Colgate-Palmolive Company. 1,4-Benzodioxan-2-yl amino acids. 3,478,058, 11-11-69, Cl. 260-340.3
Suh, John T.; and Skorcz, Joseph A., to Colgate-Palmolive Company. 1,4-Benzodioxan-6-yl amino acids. 3,478,059, 11-11-69, Cl. 260-340.3
Suh, Nam P., to United Shoe Machinery Corporation. Plastisol compositions and method for providing the same as adapted for molding in unheated molding sites. 3,423,357, 1-21-69, Cl. 260-34.2
Suhner, Willy. Heel engaging unit for a safety ski binding. 3,432,180, 3-11-69, Cl. 280-11.35
Suhr, John H. Joint construction for building elements. 3,475,872, 11-4-69, Cl. 52-285.
Suit, Paul E., to General Dynamics Corporation. Ship assembly method and apparatus therefor. 3,429,288, 2-25-69, Cl. 114-77.
Suiter, Roger N., to Allied Chemical Corporation. Borax-sodium silicate stabilizers for peroxide bleaching. 3,449,254, 6-10-69, Cl. 252-99.
Suits, Scott O.: *See—*
Broersma, Robert J.; and Suits, Scott O.,3,455,084.
Sukhov, Evgeny Ivanovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Sukornick, Bernard; and Wamser, Christian A., to Allied Chemical Corporation. Fluorination of unsaturated compounds. 3,422,159, 1-14-69, Cl. 260-648.
Sukup, Eugene G. Vertical auger stabilizing apparatus. 3,448,966, 6-10-69, Cl. 259-111.
Sukurs, Raimonds: *See—*
Langner, Alexander; and Sukurs, Raimonds,3,470,635.
Suld, George, to Sun Oil Company. Preparation of esters of α,α'-dimethylmuconicacid. 3,440,158, 4-22-69, Cl. 204-158.
Suld, George, to Sun Oil Company. Derivatives of α-dihydrodimethylmuconates and their preparation. 3,440,275, 4-22-69, Cl. 260-484.
Suld, George, to Sun Oil Company. Pyrolysis of heptaalkylbenzenonium fluoborate to form alkyl fluorides. 3,444,250, 5-13-69, Cl. 260-653.
Suld, George, to Sun Oil Company. Preparation of β-isopropylnaphthalene. 3,458,587, 7-29-69, Cl. 260-668.
Suld, George, to Sun Oil Company. γ-Ethyl-α-methyl-Δβ-butenolide. 3,474,111, 10-21-69, Cl. 260-343.6
Sulea, Paul: *See—*
Nadasan, Stefan; Sulea, Paul; Popescu, Dumitru; Schaumburger, Carol; and Bakonyi, Coloman,3,450,236.
Sulecki, Richard Paul: *See—*
Werner, Richard L.; and Sulecki, Richard Paul,3,477,120.
Lindesmith, Harold R.; Sulecki, Richard P.; and Tuck, Charles R.,3,481,026.
Lindesmith, Harold R.; Sulecki, Richard P.; Tuck, Charles R.; and Werner, Richard L.,3,484,931.
Sulewsky, James E., to United States Steel Corporation. Sound-absorbing panel. 3,483,947, 12-16-69, Cl. 181-33.
Suling Carlhans; and Logemann, Heino, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of acrylonitrile polymers by polymerizing on the presence of an aromatic sulfonamide. 3,441,533, 4-29-69, Cl. 260-30.8
Suling, Carlhans: *See—*
Bahr, Ulrich; Suling, Carlhans; Nischk, Gunther; and Szita, Jeno,3,483,208.
Bruckmann, Paul; Logemann, Heino; and Suling, Carlhans,3,446,875.
Bruckmann, Paul-Gunther; Logemann, Heino; and Suling, Carlhans,3,468,977.
Logemann, Heino; Roos, Ernst; and Suling, Carlhans,3,436,364.
Mayer, Rudi; and Suling, Carlhans,3,467,629.
Suling, Carlhans; and Kuntz, Egon, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of acrylonitrile graft copolymers. 3,453,223, 7-1-69, Cl. 260-17.
Sulkes, Emanuel M., to Decor Specialties, Inc. Pleated blind assembly. 3,465,806, 9-9-69, Cl. 160-84.
Sulkowski, Theodore S., to American Home Products Corporation. Substituted dihydro-11H-isoindolo[2,1-a] benzimidazol - 11 - ones and related compounds. 3,423,421, 1-21-69, Cl. 260-309.2
Sulkowski, Theodore S.; and Mascitti, Albert A., to American Home Products Corporation. Process for the preparation of 2-(aminoethyl) phthalimidines. 3,445,476, 5-20-69, Cl. 260-325.
Sulkowski, Theodore S.; and Mascitti, Albert A., to American Home Products Corporation. 2-(2-Aminophenyl)Isoindolines. 3,466,297, 9-9-69, Cl. 260-326.1
Sulkowski, Theodore S.; and Mascitti, Albert A., to American Home Products Corporation. Process for the preparation of 2-(2-aminoethyl) isoindolines. 3,466,298, 9-9-69, Cl. 260-326.1
Sulkowski, Theodore S.; and Wille, Myles A., to American Home Products Corporation. 2-Hydroxyalkylisocarbostyrils. 3,452,027, 6-24-69, Cl. 260-289.
Sullhofer, Heinz. Method of and apparatus for making covered plates of polyurethane in a continuous process. 3,435,102, 3-25-69, Cl. 264-47.
Sullinger, Glen R. Turgidity-maintaining tourniquet. 3,461,863, 8-19-69, Cl. 128-79.
Sullivan, Alan L. Diaper clip. 3,447,209, 6-3-69, Cl. 24-87.
Sullivan, Bernard E., to O'Brien Textiles Corporation. Package of wiping cloths. 3,424,304, 1-28-69, Cl. 206-56.
Sullivan, Bernard J., to Bausch & Lomb Incorporated. Light intensifier circuit for flash photography. 3,422,308, 1-14-69, Cl. 315-172.
Sullivan, Bernard J., to Bausch & Lomb Incorporated. High gain amplifier circuit. 3,465,260, 9-2-69, Cl. 330-17.
Sullivan, Bernard J.: *See—*
Martens, Alexander E.; and Sullivan, Bernard J.,3,428,796.
Sullivan, Billie R., to Automotive Development Corporation. Smog reducing carburetor. 3,471,132, 10-7-69, Cl. 261-34.
Sullivan, Charles I.; and McCarthy, Francis L., to Staley, A. E., Manufacturing Company. Alkaline floor polish containing polyvalent metal chelate. 3,457,208, 7-22-69, Cl. 260-28.5
Sullivan, Daniel C.: *See—*
Perkins, Robert L.; Thorndyke, Lloyd M.; and Sullivan, Daniel C.,3,484,760.
Sullivan, Daniel J., to Sturtevant Mill Company. Methods and apparatus for air classifying and screening of finely divided material. 3,434,593, 3-25-69, Cl. 209-31.
Sullivan, Daniel M.: *See—*
Monaghan, Leo J.; Aliberti, Vincent A.; and Sullivan, Daniel M.,3,425,979.
Sullivan, Donald J.: *See—*
Mitchell, Douglas W., 3,419,991.
Sullivan, Donald L., to Little, Arthur D., Inc. Thin-film cold cathode. 3,445,281, 5-20-69, Cl. 117-217.
Sullivan, Donald L. Method of fabricating ball bushing. 3,465,405, 9-9-69, Cl. 29-149.5
Sullivan, Douglas R., to Massachusetts Institute of Technology. D.C. brushless motor. 3,465,226, 9-2-69, Cl. 318-138.
Sullivan, Edmund T.: *See—*
Blackman, Paul R.; and Sullivan, Edmund T.,3,428,778.
Sullivan, Edward M.: *See—*
Zutty, Nathan L.; Welch, Frank J.; Sullivan, Edward M.; Bryant, George M.; and Walter, Andrew T.,3,437,719.
Sullivan, Evan G. Fluid current motor. 3,442,492, 5-6-69, Cl. 253-10.
Sullivan, Fletcher R., to North American Rockwell Corporation. Welding apparatus. 3,480,756, 11-25-69, Cl. 219-125.

Sullivan, Francis F.: *See*—
Hartman, Seymour; and Sullivan, Francis F.,3,424,270.
Sullivan, Francis G.; Phelps, Charles G.; and Troyer, William J., to Simpson Manufacturing Company. Method of assembling d tuning vibration dampeners. 3,457,624, 7-29-69, Cl. 29-407.
Sullivan, Frank D. Pad holder for motor powered floor machines. 3,464,075, 9-2-69, Cl. 15-98.
Sullivan, Harold E.: *See*—
Fortsch, Francis J.; and Sullivan, Harold E.,3,429,076.
Sullivan, Harold G.: *See*—
Clapham, Robert G.; Lord, John B., IV; and Sullivan, Harold G.,3,445,771.
Sullivan, Herbert D., to International Harvester Company. Rotary screen seal. 3,475,883, 11-4-69, Cl. 55-290.
Sullivan, James F., to Deere & Company. Spring-loaded rolling coulter.,3,451,489, 6-24-69, Cl. 172-572.
Sullivan, James Franklin: *See*—
Arnold, Loren Glenn; Sullivan, James Franklin; and Esbeck, Howard Christian,3,481,407.
Sullivan, James P.; and Tucker, Joseph F., to United States Steel Corporation. Method and apparatus for repairing tap holes in furnace walls. 3,458,607, 7-29-69, Cl. 264-30.
Sullivan, James R.: *See*—
Sharp, Arnold G.; Shultz, William S.; and Sullivan, James R.,3,433,202.
Sullivan, John Anthony, to Simon, Henry, Limited. Slotting mechanisms. 3,466,982, 9-16-69, Cl. 93-58.2
Sullivan, John V.: *See*—
Walsh, Alan; and Sullivan, John V.,3,433,963.
Sullivan, Matthew A. Laminated balsa structure and method. 3,437,547, 4-8-69, Cl. 161-40.
Sullivan, Philip W.; and Wong, Robert, to Owens-Corning Fiberglas Corporation. Water dispersible epoxy compositions. 3,449,281, 6-10-69, Cl. 260-29.2
Sullivan, Richard J., to Colonial Board Company. Product and method for manufacture of insole blanks and the like. 3,456,365, 7-22-69, Cl. 36-43.
Sullivan, Robert C.; and Matzner, Markus, to Union Carbide Corporation. Carbonate polymer synthesis. 3,428,600, 2-18-69, Cl. 260-47.
Sullivan, Robert E. Package for storing and cooking bacon slices. 3,424,596, 1-28-69, Cl. 99-174.
Sullivan, Robert E., to Anaconda Company, The. Purification of aluminum chloride. 3,446,578, 5-27-69, Cl. 23-92.
Sullivan, Robert E., to Anaconda Company, The. Calcination process for kaolin-containing clay. 3,476,511, 11-4-69, Cl. 23-110.
Sullivan, Robert J., to Westinghouse Electric Corporation. Load computing and shedding apparatus having self-adjusting bandwidth. 3,422,276, 1-14-69, Cl. 307-29.
Sullivan, Robert T.: *See*—
Raia, Richard M.; and Sullivan, Robert T.,3,451,321.
Sullivan, Robert T., to Polaroid Corporation. Camera apparatus for fitting corneal contact lenses. 3,479,937, 11-25-69, Cl. 95-11.
Sullivan, Robert W., to Ingersoll Milling Machine Company, The. Worm-rack transmission with hydrostatic tooth bearings. 3,448,631, 6-10-69, Cl. 74-409.
Sullivan, Stuart, to Frankenstein Group Limited. Inflatable body-attachments for marine lifesaving. 3,447,175, 6-3-69, Cl. 9-316.
Sullivan, Thomas Milo, to Deere & Company. Oscillating drive axle and lubrication therefor. 3,481,421, 12-2-69, Cl. 180-75.
Sullivan, Timothy J., to Sullivan Valve and Engineering Company. Back flow prevention system. 3,483,884, 12-16-69, Cl. 137-215.
Sullivan Valve and Engineering Company: *See*—
Sullivan, Timothy J., 3,483,884.
Sullivan, William A., Jr., to Xerox Corporation. Xerographic development apparatus. 3,428,025, 2-18-69, Cl. 118-637.
Sullivan, William A., Jr.: *See*—
Mayer, Edward F.; and Sullivan, William A., Jr.,3,472,657.
Sullivan, William H., to Dictaphone Corporation. File folder suspension for drawers. 3,456,994, 7-22-69, Cl. 312-184.
Sullivan, William H., to Dictaphone Corporation. Tablet chair construction. 3,467,432, 9-16-69, Cl. 297-162.
Sully, Frank H., to Western Brass Works. Sprinkler. 3,468,485, 9-23-69, Cl. 239-230.
Sulmist Limited: *See*—
Harrison, Harry, 3,435,760.
Sulzbach, Thomas L.: *See*—
Gantt, James E.; and Sulzbach, Thomas L.,3,437,706.
Sulzbach, Thomas L., to Universal Oil Products Company. Process for aromatic alkylation and olefinic oligomerization. 3,437,707, 4-8-69, Cl. 260-671.
Sulzer Brothers Limited: *See*—
Aguet, Emile, 3,449,908.
Aguet, Emile Albert, 3,461,667.
Brunner, Alfred, 3,450,198.
Brunner, Alfred, 3,452,195.
Brunner, Alfred, 3,454,761.
Brunner, Alfred, 3,467,068.
Brunner, Alfred, 3,478,724.
Cujai, Johann, 3,457,966.
Ergenc, Sahabettin, 3,470,065.
Evers, Konrad, 3,452,722.
Frei, Hans, 3,425,264.
Froelich, Martin, 3,428,413.
Gotz, Hans; and Drewitz, Julius, 3,441,059.
Hanny, Jost; and Hirschberg, Hans Gunter, 3,427,816.
Hofmann, Hans, 3,444,844.
Jung, Richard, 3,458,208.
Kikinis, Alexander, 3,478,726.
Krussmann, Adolf; and Voss, Joachim, 3,458,812.
Kuenzli, Albert, 3,484,612.
Kunzli, Albert, 3,454,080.
Litwinoff, Richard, 3,448,726.
Ott, Walter, 3,438,346.
Pfarrwaller, Erwin, 3,425,462.
Pfarrwaller, Erwin, 3,426,806.
Pfarrwaller, Erwin, 3,426,807.
Pfarrwaller, Erwin, 3,428,095.
Pfarrwaller, Erwin, 3,446,250.
Pfarrwaller, Erwin; and Brun, Anatole, 3,455,341.
Pfarrwaller, Erwin, 3,466,896.
Pfarrwaller, Erwin, 3,483,897.
Roffler, Josua, 3,472,209.
Rutschi, Kurt, 3,472,466.
Schneider, Arthur, 3,456,691.
Schneider, Arthur, 3,472,286.
Schneider, Hans, 3,470,937.
Steiger, Anton, 3,432,088.
Stoffel, Richard; and Hellingman, Gosen Joop, 3,447,313.
Strub, Rene; and Graf, Emil, 3,472,024.
Urben, Adauto, 3,455,501.
Vogeli, Ernst, 3,458,170.
Vogeli, Ernst, 3,460,710.
Weber, Max, 3,425,906.
Weber, Max H., 3,438,357.
Wolf, Gottlieb, 3,473,322.
Sulzer, Georg: *See*—
Buehler, Arthur; Sulzer, Georg; and Fasciati, Alfred,3,468,618.
Sulzer, Hans D., to Stone & Webster Engineering Corporation. Containment vessel construction for nuclear power reactors. 3,438,857, 4-15-69, Cl. 176-37.
Suman, George O., Jr., to Shell Oil Company. Method for the sand control of a well. 3,482,629, 12-9-69, Cl. 166-255.
Suman, Robert W.; Stoddart, William D.; and Swartz, Horace M., to FMC Corporation. Accumulating and safety bumper for tow truck system. 3,478,699, 11-18-69, Cl. 104-178.
Sumansky, Ladislaus Walter, to United States Steel Corporation. Gas sampling probe. 3,459,047, 8-5-69, Cl. 73-421.5
Sumergrade & Sons, Inc.: *See*—
Deutsch, Irving, 3,467,974.
Sumey, Ivan E.: *See*—
Earle, Roger T., Jr.; and Sumey, Ivan E.,3,433,020.
Sumi, Hiroji; Takahi, Yukiyoshi; Kondo, Yasuhiko; Hamamoto, Yoshio; and Nishimura, Tsunchiko, to Sankyo Company, Limited, and Dainippon Ink & Chemicals, Incorporated. Pentachlorobenzyl alcohol, acetate, propionate and butyrate for combatting rice blast. 3,426,135, 2-4-69, Cl. 424-311.
Sumi, Masao: *See*—
Koyama, Jiro; Sumi, Masao; and Ohara, Seiji,3,464,020.
Sumi, Takehiko: *See*—
Nakagawa, Kazumi; Tsutsui, Nobuhiro; and Sumi, Takehiko,3,451,140.
Sumina, Ikuo: *See*—
Hatta, Ryozo; Kinugawa, Jiro; Yamamoto, Hiroichi; Sumina, Ikuo; Tamura, Bunzo; and Suzuki, Shigekazu,3,458,638.
Suminoe, Taro: *See*—
Mori, Kan; Suminoe, Taro; Yamazaki, Tamotu; Ishikawa, Tunezo; and Kogure, Akira,3,479,331.
Suminoto, Shinzaburo; Tokuyama, Kanji; Fujimoto, Nanabu; and Maeda, Takashi, to Shionogi & Co., Ltd. Process for preparing O,S-bis(alkoxycarbonyl)- thiamine derivatives. 3,455,925, 7-15-69, Cl. 260-256.5
Sumito Metal Industries, Limited: *See*—
Misaka, Yoshisuke; Yamamori, Kakunosuke; Machida, Masahiro; and Nakata, Michio, 3,442,104.
Sumitomo Atomic Energy Industries Ltd.: *See*—
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; Toriuchi, Yahiko; and Matsumi, Shunji, 3,446,776.
Sumitomo Bakelite Company Limited: *See*—
Okada, Yoichi; Watanabe, Tsutomu; Hirai, Koji; and Fujii, Kazutoshi, 3,484,351.
Sumitomo Chemical Company, Ltd.: *See*—
Arai, Hirokazu; and Yano, Tsurutake, 3,487,100.
Fukuda, Tomiichi, 3,446,208.
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; and Horie, Misato, 3,466,251.
Fukui, Kenichi; Kagiya, Tsutomu; Narisawa, Shizuo; Maeda, Taneo; and Kobata, Mikio, 3,476,712.
Fukuoka, Yukio; Kusayama, Senji; and Suzuki, Mamoru, 3,457,212.

Hatano, Ikuo; Koyama, Koichiro; and Nishimura, Tomohiro, 3,486,991.
Hiraiwa, Masumi; Takahasi, Tadasi; and Fukuda, Wataru, 3,459,650.
Ichiki, Eiichi; Ryu, Hirosuke; and Inoue, Yasuhiko, 3,474,122.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji, 3,465,047.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji, 3,465,048.
Ito, Ken; Kaminaka, Hiroshi; Hamada, Takaki; and Kuruma, Hiroshi, 3,484,491.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi, 3,428,651.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi, 3,440,245.
Mashio, Fujio; and Kusaga, Atsushi, 3,457,232.
Mashio, Fujio; and Fukui, Kiyoshi, 3,458,349.
Muramoto, Noboru; Fujimoto, Keimei; and Okuno, Yositosi, 3,444,273.
Nakagome, Takenari; and Komatsu, Toshiaki, 3,420,819.
Nakaguchi, Kohei; Arai, Hirokazu; Kondo, Nakataro; and Manabe, Kuniyoshi, 3,465,035.
Nakaguchi, Kohei; Kawasumi, Shohachi; Takagi, Kazumi; Fukuba, Kobo; Hirooka, Masaaki; and Fujita, Toshimichi, 3,472,824.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Fujita, Toshimichi, 3,478,002.
Nakamura, Akihide; Ito, Iko; and Kanbara, Kiyohiro, 3,457,241.
Nishizawa, Yoshihiko; Nakagawa, Masataka; and Kimura, Akio, 3,444,236.
Okazaki, Masao; Mori, Atsuo; Toda, Namihiro; and Hara, Isao, 3,487,128.
Oshima, Yasuyoshi; and Eto, Morifusa, 3,478,133.
Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Masao; Manabe, Mitsuyoshi; and Kondo, Shigekatsu, 3,438,868.
Shima, Takesaburo; Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Maszo; and Takimoto, Tetuji, 3,433,840.
Sugiyama, Hiroshi; Yamamoto, Masakazu; and Otsuka, Hideo, 3,483,182.
Takagi, Kazumi; and Tsunokawa, Tamio, 3,475,492.
Tanaka, Ryoma; Toyoshima, Kiyoshi; and Ichiki, Eiichi, 3,474,121.
Terao, Shinichiro; Sagawa, Seizi; and Yabuta, Seizo, 3,435,074.
Tsukamoto, Hiroshi; and Iwahashi, Syunji, 3,438,912.
Tuji, Yoji, 3,477,864.
Ueda, Tomoharu; Terao, Shinichiro; and Yabuta, Seizo, 3,464,478.
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru, 3,484,334.
Yamamoto, Hisao; Nakao. Masaru; and Maruyama, Isamu, 3,479,348.
Yanagida, Kiyomi; Hatano, Ikuo; and Masazumi, Kawai, 3,464,909.

Sumitomo Electric Industries, Ltd.: *See—*
Iric, Tadasu; and Doi, Kaname, 3,426,872.
Izumi, Masahiro; Shima, Hiroshi; Matsumura, Shigeru; and Nobuyuki, Asano, 3,453,292.
Kita, Yasuo, 3,478,845.
Matsuda, Yoshio; and Ozaki, Shigenobu, 3,443,305.
Sugi, Masao; and Kumamaru, Hiroyuki, 3,475,893.
Suzuki, Takashi; and Watanabe, Takahide, 3,435,302.
Takata, Koji, 3,450,234.
Takata, Koji, 3,455,417.
Uda, Hiroshi, 3,439,782.
Waride, Yoshio, 3,467,561.

Sumitomo Metal Industries Limited: *See—*
Iba, Akikazu; and Sakai, Kenji, 3,435,655.

Sumitomo Metal Mining Company Limited: *See—*
Sasaki, Kuniya, 3,425,684.

Sumitomo Naugatuck Company, Ltd.: *See—*
Matsumoto, Kohjiro; Usami, Hisao; and Sekiguchi, Sadao, 3,481,764.

Sumitomo Precision Products Company Limited: *See—*
Yanagisawa, Toru, 3,424,197.

Sumiyoshi, Masaharu: *See—*
Noguchi, Masaaki; and Sumiyoshi, Masaharu,3,466,946.

Summer Williams, Inc.: *See—*
Herrick, Clifford E., Jr.; and Hwang, Ho Chien, 3,481,740.

Summerfelt, Vernon E.: *See—*
Miron, Roy R. H.; Huggins, Donald G.; Rinne, John E.; and Summerfelt, Vernon E.,3,423,264.

Summerhayes Holdings Limited: *See—*
Macdonald, Warren E., 3,434,908.

Summerland, Melvin L. Sawmill drive means. 3,454,057, 7-8-69, Cl. 143-56.

Summerour, Benjamin F. Egg gathering device with conveyor. 3,474,762, 10-28-69, Cl. 119-48.

Summerour, Benjamin F. Method and apparatus for aligning and depositing eggs onto egg flats. 3,481,103, 12-2-69, Cl. 53-35.

Summers, Charles G., to Monsanto Company. Accelerating vulcanization of rubber with thiazolythio dialkylpyrrolidines. 3,467,621, 9-16-69, Cl. 260-41.5

Summers, Claude Menta: *See—*
Hughes, William Lewis; Summers, Claude Menta; and Allison, Hansell Jack,3,477,878.
Hughes, William L.; Summers, Claude M.; and Allison, Hansell Jack,3,424,620.

Summers, Gerald C., to Simplec Manufacturing Company, Inc. Sequential direction indicator. 3,479,641, 11-18-69, Cl. 340-109.

Summers, Jack Philip, to Bradley, G. & E., Limited. Control unit for a plural tape recording system. 3,474,455, 10-21-69, Cl. 346-44.

Summers, James R. Rigid wick, rigid core-wick and rigidized candle. 3,428,409, 2-18-69, Cl. 431-289.

Summers, James R. Rigid candle wick and rigid candle device. 3,462,235, 8-19-69, Cl. 431-289.

Summers, James R. Candle maintaining devices. 3,466,135, 9-9-69, Cl. 431-289.

Summers, John D.: *See—*
Hammond, Theodore A.; and Summers, John D.,3,468,408.

Summers, John E.: *See—*
Golding, Sherwin A.; and Summers, John E.,3,443,983.

Summers, John Gilbert: *See—*
Foxell, Clive Arthur Peirson; and Summers, John Gilbert,3,443,169.

Summers, Marion K. Sectionalized rack assembly. 3,441,146, 4-29-69, Cl. 211-74.

Summers, Ronald John: *See—*
Evans, Franklin James; and Summers, Ronald John,3,486,168.

Summers, Ronald John, to Du Pont de Nemours, E. I., and Company. Process for producing nonwoven fabrics. 3,434,188, 3-25-69, Cl. 28-72.2

Summers, Stanley E., to Ametek, Inc. Pressure relief valve. 3,464,585, 9-2-69, Cl. 220-89.

Summers, Thomas O. Gyro stabilized center tracking vehicle. 3,465,840, 9-9-69, Cl. 180-30.

Summers, Zdzislaw R.: *See—*
Morreale, Anthony P.; and Summers, Zdzislaw R.,3,428,837.

Summerville, Donald V., Jr., to Gardco Industries, Inc. Mounting bracket. 3,480,243, 11-25-69, Cl. 248-264.

Summit Electronics Incorporated: *See—*
Hoge, Henri H., 3,437,896.

Sumner, Earl C., to Duriron Company, Inc., The. Anode for cathodic protection. 3,471,395, 10-7-69, Cl. 204-196.

Sumner, George G., to Texas Instruments, Incorporated. Microcontact Schottky barrier semiconductor device. 3,448,349, 6-3-69, Cl. 317-234.

Sumoprint Findler K.G.: *See—*
Limberger, Walter; and Wendt, Rudolf, 3,450,535..

Sumpter, Rudolph H., to United States of America, Navy, mesne. Pressure transducer. 3,477,295, 11-11-69, Cl. 73-398.

Sumption, Richard F., to Gwaltney Incorporated. Apparatus for providing stuffed food casings having flattened ends. 3,462,793, 8-26-69, Cl. 17-32.

Sumption, Richard F., to Gwaltney Incorporated. Method for providing stuffed food casings having flattened ends. 3,480,449, 11-25-69, Cl. 99-175.

Sumrall, George E.: *See—*
Herr, Edward R.; and Sumrall, George E.,3,464,531.

Sumrall, Howell M. Turret gun directing system (aideye). 3,457,827, 7-29-69, Cl. 89-41.

Sumsion, Henry T.: *See—*
Crooks, Donald D.; Kelsey, Royal W.; and Sumsion, Henry T.,3,425,116.
Kelsey, Royal W.; Crooks, Donald D.; and Sumsion, Henry T.,3,436,253.

Sumyk, George B.; Kyle, Joseph L.; and Hawrylewicz, Ervin J., to Thompson Farms Company. Method for the preparation of heparin. 3,451,996, 6-24-69, Cl. 260-211.

Sun Chemical Corporation: *See—*
Goldstein, Herman B., 3,486,911.

Sun, Chih-Ree: *See—*
Blumenfeld, Henry A.; Pandolfi, Francis P.; and Sun, Chih-Ree,3,430,043.

Sun Corporation: *See—*
Rademacher, Thomas P., 3,442,528.

Sun Drop Bottling Co., Inc.: *See—*
Nanney, Charles P.; and Moore, Ollis O., 3,468,436.

Sun Oil Company: *See—*
Belak, Steven G.; and Campbell, Robert H., 3,458,303.
Bennett, John D.; and Peret, John W., 3,420,099.
Bennett, John D., 3,464,892.
Bennett, John D., 3,481,720.
Bennett, John D., 3,482,447.
Bohrer, Byron B., 3,480,689.
Bravo, Justo B.; and Dimeler, Glenn R., 3,428,490.
Bushick, Ronald D., 3,453,341.
Bushick, Ronald D., 3,453,342.
Butte, Walter A., Jr., 3,474,143.

Chaney, Preston E.; Ince, Richard W.; and Mason, Charley Mack, 3,487,002.
Closs, George M.; and Dougherty, Patrick F., 3,464,219.
Davis, Joseph R., Jr.; and Tice, John D., 3,481,862.
Dooley, William P., 3,474,055.
Douros, John D., Jr.; and Vanderwerff, William D., 3,481,730.
Driscoll, Gary L., 3,429,949.
Driscoll, Gary L., 3,464,957.
Driscoll, Gary Lee, 3,454,532.
Duling, Irl N., 3,436,376.
Duling, Irl N.; Schneider, Abraham; and Driscoll, Gary L., 3,467,627.
Eberhardt, Gert G.; and Griffin, William P., Jr., 3,459,825.
Eberhardt, Gert G.; and Griffin, William P., Jr., 3,472,911.
Eberhardt, Gert G., 3,482,001.
Gorand, Alfred J.; and Di Giacomo, Angelo A., 3,449,211.
Griffin, William P., Jr., 3,467,726.
Griffin, William P., Jr.; and Butte, Walter A., Jr., 3,485,892.
Hall, Lawrence J.; Mayer, Robert; and Young, Einar T., 3,435,238.
Hardy, William C.; and Shepard, John C., 3,452,816.
Harvey, Wildon T.; and Zaayenga, Ralph, 3,433,665.
Harvey, Wildon T.; and Knepper, Jay C., Jr., 3,467,547.
Hatch, Lewis F., 3,437,687.
Hedge, John A.; Hall, Lewis W., Jr.; and Shore, Charles, 3,459,695.
Hooper, John, 3,483,827.
Hosler, Peter, 3,458,399.
Jolly, Samuel E., 3,459,605.
Kirk, Merritt C., Jr., 3,424,673.
Kirk, Merritt C., Jr., 3,434,959.
Kirk, Merritt C., Jr.; and Andersson, Craig R., 3,437,702.
Kirk, Merritt C., Jr., 3,481,996.
Ledley, Robert E., III, 3,428,022.
Lerner, Julius, 3,464,258.
Lerner, Julius, 3,477,290.
Malmberg, Earl W.; and Robinson, William M., 3,457,168.
Maloney, Richard P., 3,437,462.
Maloney, Richard P.; and McCorquodale, Wilmer E., Jr., 3,437,463.
Maloney, Richard P., 3,437,464.
Mayer, Robert, 3,428,889.
Mayer, Robert; Shawhan, Elbert N.; and Young, Einar T., 3,473,380.
McLean, Robert H.; Nolan, Melvin E.; and Axsom, James F., 3,452,490.
Mills, Ivor W.; and Dimeler, Glenn R., 3,462,358.
Moore, Robert E., 3,450,744.
Nagel, Harry W., 3,459,638.
Peterkin, Melvin E.; and Scott, Kenneth A., 3,485,885.
Peterson, Henry J., 3,428,698.
Peterson, Henry J., 3,461,173.
Phillips, Rodger W., 3,453,211.
Rue, Howard M., 3,459,663.
Schneider, Abraham, 3,450,775.
Schneider, Abraham, 3,485,880.
Stoops, James W.; Bitterlich, Gordon M.; Lipkin, Moses R.; and Primas, Alex L., 3,480,416.
Suld, George, 3,440,158.
Suld, George, 3,440,275.
Suld, George, 3,444,250.
Suld, George, 3,458,587.
Suld, George, 3,474,111.
Surrena, Harland J.; Kirby, Aubrey M., Jr.; and Reif, Henry E., 3,425,932.
Thomas, Charles L., 3,428,686.
Thomas, Charles L., 3,444,095.
Thomas, Charles L., 3,444,260.
Thompson, John R., Jr., 3,458,358.
van Venrooy, John J., 3,429,908.
van Venrooy, John J., 3,477,963.
Vanderwerff, William D., 3,420,878.
Vanderwerff, William D., 3,453,220.
Vanderwerff, William D., 3,481,997.
Ware, Richard E.; and Hall, Lewis W., Jr., 3,450,551.
Weiss, Eric A., 3,435,451.
Winder, James W., 3,453,499.
Wright, J Rondle, 3,450,161.

Sun Shipbuilding & Dry Dock Company: *See*—
Garland, Charles, 3,477,605.
Griffith, Richard W., 3,428,354.
Swensson, Gerald C., 3,441,326.

Sun Steel Treating Incorporated: *See*—
Moore, George E.; and Richardson, Al E., 3,426,837.

Sun Tool & Machine Company, The: *See*—
Reaser, Warren E., 3,435,563.

Sun Valley Pools, Inc.: *See*—
Michalke, Richard E.; Valle, Joseph; and Grant, Melvin M., 3,458,875.

Sun-Freeze, Inc.: *See*—
Van Gelder, Arthur, 3,455,031.
van Gelder, Arthur, 3,477,137.

Sun-Ray Burner Manufacturing Corporation: *See*—
Grobe, Henry H., 3,486,835.

Sunagawa, Genshun; Soma, Nobuo; and Nakazawa, Junichi, to Sankyo Company Limited. Process for preparing cycloheptimidazolinium halides. 3,453,286, 7-1-69, Cl. 260-309.6

Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; Watanabe, Taiichiro; and Sato, Yoshio, to Sankyo Company Limited. Oxazolo-and thiazolo-tropylium alkylsulfates and process for preparing the same. 3,467,665, 9-16-69, Cl. 260-302.

Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; and Watatani, Mitsuo, to Sankyo Company Limited. Process for preparing 2-substituted cycloheptimidazole derivatives. 3,461,131, 8-12-69, Cl. 260-309.

Sunagawa, Genshun; Soma, Nobuo; Watanabe, Taiichiro; and Sato, Yoshio, to Sankyo Company, Limited. Process for preparing troponeimines. 3,435,071, 3-25-69, Cl. 260-566.

Sunahara, Noriyuki: *See*—
Shoji, Osamu; Yokogawa, Kanae; Sunahara, Noriyuki; and Ogata, Loichi,3,438,860.

Sunahara, Tamotsu: *See*—
Konishi, Hikoichi; Harada, Yuichi; Sunahara, Tamotsu; Sakaguchi, Yasuhiro; and Ishihara, Tetsuo,3,459,591.

Sunasky, Joseph, to Dexion Limited. Connections between structural components. 3,456,970, 7-22-69, Cl. 287-189.35

Sunbank Electronics, Inc.: *See*—
Tillman, Max L., 3,458,128.

Sunbeam Business Equipment Co.: *See*—
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., 3,476,479.

Sunbeam Corporation: *See*—
Andersen, Robert D., 3,456,152.
Bauer, Charles L., 3,421,215.
Chambers, Worthy L., 3,432,702.
Chambers, Worthy L., 3,461,556.
Dokos, Sophocles J.; Wickenberg, Chester H.; Swanson, Charles E.; and Gasparaitis, Bernardas, 3,472,154.
Fox, James H., 3,456,095.
Jepson, Ivar; Morgan, John W.; and Richmond, James W., 3,429,118.
Jepson, Ivar; and Ernstberger, Alfred F., 3,451,087.
Jepson, Ivar; Dokos, Sophocles J.; and Bielak, Sigmund H., 3,477,263.
Lill, Etchison, G.; and Bandy, William J., Jr., 3,422,531.
Maloney, David L., 3,456,430.
Mattson, Charles A.; and Romin, Alvin, Jr., 3,468,041.
Mattson, Charles A., 3,468,108.
Morawetz, Frederick, 3,423,024.
Ponczek, George M.; Chambers, Worthy L.; and Ritter, Frederick J., 3,439,204.
Richmond, James W.; and Scott, Donald R., 3,433,010.
Richmond, James W., 3,485,031.
Rizzier, John A., 3,438,081.
Spohr, Albert R., 3,432,652.
Spohr, Albert R., 3,456,276.
Spohr, Albert R., 3,463,994.
Stahly, Daniel C.; Schaefer, George H.; and Beck, William P., 3,447,058.
Waller, Frederick S.; and Laama, Vello, 3,487,200.
Williams, James T., 3,438,318.
Williams, James T., 3,461,274.

Sunbeam Equipment Corporation: *See*—
Ross, Robert H.; Roth, Willard; Larko, Robert; and Swartzfager, Walter, 3,447,790.

Sunbird Industries, Inc.: *See*—
Gellert, Donald P., 3,474,804.

Sundberg, Erik G., to Aktiebolaget Tudor. Method of sealing a battery cover to the case. 3,484,300, 12-16-69, Cl. 136-176.

Sundberg, Erik Gustav, to Aktiebolaget Tudor. Sheath for battery electrode and method. 3,429,752, 2-25-69, Cl. 136-147.

Sundberg, Hardy Mikael. Incineration type sanitary closets. 3,436,765, 4-8-69, Cl. 4-131.

Sundberg, Henry L., Jr.: *See*—
Diemond, Joseph; Gershman, Melvin Y.; and Sundberg, Henry L., Jr.,3,428,969.

Sundberg, Jack G.: *See*—
Noell, Godwin L.; Cygnor, John E.; and Sundberg, Jack G.,3,437,048.

Sundberg, Odd B.: *See*—
Willis, John C.; and Sundberg, Odd B.,3,465,383.
Willis, John C.; and Sundberg, Odd B.,3,466,699.

Sundberg, Yngve; and Svantesson, Erik. Fungicidal composition containing 3α,4,7,7α- Line transmission in arc furnaces. 3,433,878, 3-18-69, Cl. 13-14.

Sundblom, Leif J. Price-setting mechanism for computing counters. 3,425,291, 2-4-69, Cl. 74-348.

Sundblom, Leif J., to Rockwell Manufacturing Company. Meter dial resetting mechanism. 3,437,269, 4-8-69, Cl. 235-144.

Sundblom, Leif J., to Rockwell Manufacturing Company. Transfer disabling mechanism. 3,461,281, 8-12-69, Cl. 235-144.
Sunden, Gunnar E., Jr., to Westinghouse Electric Corporation. Amplifier apparatus with means to avoid saturation. 3,440,557, 4-22-69, Cl. 330-103.
Sunderland, Greta Colleen Adie, to National Research Development Corporation. Low profile aircraft antenna with dielectric reflector to reduce destructive interference. 3,447,158, 5-27-69, Cl. 343-708.
Sunderland, Luther D.: *See—*
Chamberlain, Billy S.; Shinn, Byron J.; and Sunderland, Luther D.,3,420,993.
Sunderlin, Donald Edward; Staab, Jacob Emor; and Oldenburg, Dorrance, to Caterpillar Tractor Company. Articulated crawler tractor construction. 3,435,908, 4-1-69, Cl. 180-9.44
Sunderman, Elwin; and Hilliard, Merle, to Sonnet Tool & Manufacturing Company. Tool holder. 3,444,781, 5-20-69, Cl. 90-11.
Sundermann, Henry L. Remote controlled actuating and release toggle. 3,469,659, 9-30-69, Cl. 188-74.
Sundermeyer, Wolfgang; and Verbeek, Wolfgang, to Goldschmidt, Th., A.G. Process for preparing organo-tin, -boron, -aluminum, -silicon, -phosphorus, -zinc and -mercury compounds. 3,480,654, 11-25-69, Cl. 260-429.7
Sundholm, Edwin P. Angularly adjustable coupler assembly. 3,421,792, 1-14-69, Cl. 285-98.
Sundholm, Edwin P., to Superior Manufacturing Co. Barrel pump assembly. 3,473,479, 10-21-69, Cl. 103-218.
Sundholm, Edwin P., to Superior Manufacturing Co. Non-drip faucet for oil barrel pump. 3,474,941, 10-28-69, Cl. 222-536.
Sundholm, Norman K., to Uniroyal, Inc.Use of selected 4,4'-methylenebis(2-alkylanilines) as curing agent for epoxy resins. 3,427,282, 2-11-69, Cl. 260-47.
Sundholm, Norman K., to Uniroyal, Inc. Substituted diphenylamines. 3,452,056, 6-24-69, Cl. 260-390.
Sundholm, Norman K., to Uniroyal, Inc.Use of selected 4,4'-methylenebis (2,6- dialkylanilines) as curing agents for epoxy resins. 3,481,900, 12-2-69, Cl. 260-47.
Sundin, Anders Erik: *See—*
Strandberg, Bengt Sigurd Lennart; and Sundin, Anders Erik,3,484,003.
Sundin, Anita G.; and Caplan, Benjamin, said Sundin assignor to said Caplan. Method of and apparatus for ozonizing air circulating in a confined refrigerated space. 3,421,836, 1-14-69, Cl. 21-53.
Sundin, George H.: *See—*
Wagtskjold, Halvor Paul; Sundin, George H.; and Carlson, Lorien A.,3,470,978.
Sundquist, Bengt Lennart: *See—*
Safholm, Sven Tore Anders; Sundquist, Bengt Lennart; and Franksson, Jan Rolf,3,473,514.
Sundquist, Charles T. Distilland heating with hot distillate. 3,444,050, 5-13-69, Cl. 202-177.
Sundquist, John L.: *See—*
Halberg, Robert A.; and Sundquist, John L.,3,472,585.
Sundquist, Milton R., to Bell Telephone Laboratories, Incorporated. Multiplying circuit based on amplitude to time conversion. 3,436,535, 4-1-69, Cl. 235-194.
Sundqvist, Cnut: *See—*
Hannerz, Kare; Sundqvist, Cnut; and Skygge, Carl Gosta,3,446,704.
Kaipainen, Arto; Rullgard, Ake; Skygge, Carl Gosta; and Sundqvist, Cnut,3,437,557.
Sunds Aktiebolag: *See—*
Nystrom, Olof Birger, 3,460,467.
Sundstrand Corporation: *See—*
Ades, Lewis B., 3,433,361.
Erikson, Robert W., 3,446,232.
Fair, Donald G.; and Anderson, Bertil T., 3,453,523.
Fair, Donald G.; and Anderson, Bertil T., 3,477,006.
Frandsen, Lee Raymond; and Louis, Joseph Edmund, 3,455,184.
Gantzer, Charles J., 3,430,520.
Hann, Melvin M., 3,446,308.
Hann, Melvin M., 3,465,520.
Magnusson, Karl G., 3,446,231.
Ross, William A., 3,442,153.
Saila, Tauno, 3,465,680.
Schaller, Robert L., 3,451,174.
Schaller, Robert L., 3,466,810.
Swedberg, Nils E., 3,446,230.
Sundstrand Corporaton: *See—*
Schaller, Robert L., 3,427,756.
Sundstrand, Oscar J., to Victor Comptometer Corporation. Calculating machine with short cut multiplication. 3,476,313, 11-4-69, Cl. 235-60.
Sundstrom, Karl Erik, to Beckman Instruments, Inc. Radiant energy analyzer for directly measuring the polarization ratio of fluorescent radiation. 3,443,089, 5-6-69, Cl. 250-43.5
Sundstrom, Karl Erik, to Beckman Instruments, Inc. Radiant energy analyzer for directly measuring the polarization ratio of fluorescent radiation. 3,443,090, 5-6-69, Cl. 250-43.5
Sundstrom, Karl Erik; Matthews, Kenneth Vincent; and Kaye, Wilbur Irving, to Beckman Instruments, Inc. Automatic gain boost for analyzers. 3,459,479, 8-5-69, Cl. 356-89.
Sundstrom, Raul D., to Van-L, Ltd. Golf club indicator and straightening machine. 3,439,429, 4-22-69, Cl. 33-174.
Sundwiger Eisenhutte Maschinenfabrik Grah & Co.: *See—*
Muller, Friedrich, 3,442,108.
Sunkist Growers, Inc.: *See—*
Paddock, Paul F., 3,458,043.
Riddington, Fred W., 3,453,802.
Swisher, Horton E., 3,453,117.
Wilson, Clarence W., 3,431,122.
Zwiacher, Wayne E.; Kaser, Louis D.; Johnson, Maurice V., Jr.; Fennell, Alfred H.; and Riddington, Fred W., 3,465,495.
Sunland Refining Corporation: *See—*
Clay, Robert A., 3,463,551.
Sunnen, August, Jr.: *See—*
Sunnen, Joseph; and Sunnen, August, Jr.,3,451,175.
Sunnen, Jean Albert Francois, to La Soudure Electrique Autogene Procedes Arcos. Electrode and process for making same. 3,430,031, 2-25-69, Cl. 219-146.
Sunnen, Jean Albert Francois, to La Soudure Electrique Autogene, Procedes Arcos. Cobalt alloy and welding electrode based upon this alloy. 3,445,624, 5-20-69, Cl. 219-146.
Sunnen, Joseph; and Sunnen, August, Jr. Honing machines. 3,451,175, 6-24-69, Cl. 51-165.
Sunner, Stig; and Rosengren, Kjell. Method and apparatus for determining the permeability of a material. 3,431,772, 3-11-69, Cl. 73-38.
Sunner, Virginia. Puppy feeders. 3,452,717, 7-1-69, Cl. 119-71.
Sunnyside Nurseries Inc.: *See—*
Yoshida, Eiichi; Yoshida, Saburo; and Yoshida, Shiyoge, 3,481,073.
Sunscreen Corporation: *See—*
Ewing, Walkley B., 3,437,538.
Sunseri, Joe N. Lifting jack. 3,481,581, 12-2-69, Cl. 254-108.
Sunset Fuel Company: *See—*
Mudge, Clarence T., 3,432,145.
Sunshine, Norman B.; Hick, Robert M., Jr.; and Gould, Joseph O., to Du Pont de Nemours, E. I., and Company. Polyurethane composition for glass coating and laminating stabilized by resorcinol monobenzoate. 3,445,423, 5-20-69, Cl. 260-45.85
Sunstar Dentifrice Company Limited: *See—*
Kobayashi, Harumi; and Sakuta, Toru, 3,448,896.
Sunsweet Dryers: *See—*
Gerrans, Alfred W., 3,422,593.
Sunsweet Growers, Inc.: *See—*
Gerrans, Alfred W., 3,460,668.
Sunter, Robert A., to Unitek Corporation. Artificial crowns for teeth. 3,468,028, 9-23-69, Cl. 32-12.
Suntheimer, Robert G., to Bliss, E. W., Company. Manual indexing mechanism for dial feeds. 3,451,291, 6-24-69, Cl. 74-813.
Suntheimer, Robert Gordon: *See—*
Kraft, Derald Henry; Helrigel, Robert Arthur; and Suntheimer, Robert Gordon,3,450,038.
Sunvic-Regler GmbH: *See—*
Maurer, Klemens, 3,464,438.
Suojanen, Reino: *See—*
Hunger, Richard H.; Whiting, Charles L.; and Suojanen, Reino,3,461,929.
Suoka, Shine; and Oyama, Tomio, to Matsushita Electric Industrial Co., Ltd. Magnetic recording and reproducing device for television signals using pulse modulation. 3,435,135, 3-25-69, Cl. 178-6.6
Suomi, William D.; and Ravve, Abraham, to Continental Can Company, Inc. Electrodeposition of polymers in non-aqueous media. 3,463,714, 8-26-69, Cl. 204-181.
Suominen, Heikki S. Thermoplastic carrier bags. 3,462,069, 8-19-69, Cl. 229-54.
Suominen, Heikki S.; Makinen, Viljo J.; and Lindstrom, Aarno S. Plastic bag or the like with handle. 3,482,761, 12-9-69, Cl. 229-54.
Suozzo, John; and Savino, Henry C., to Westinghouse Electric Corporation. Conveyor system for elongated structures. 3,467,223, 9-16-69, Cl. 187-29.
Suozzo, Leonard S. Vibration arrestor. 3,455,527, 7-15-69, Cl. 248-54.
Suozzo, Leonard S. Hydraulic shock and sway arrestor. 3,469,833, 9-30-69, Cl. 267-69.
Supa, Edward C., to North American Rockwell Corporation. Method of forming an aluminum-ferrous tubular transition joint. 3,436,806, 4-8-69, Cl. 29-482.
Supan, Edward C.: *See—*
Friske, Warren H.; and Supan, Edward C.,3,436,805.
Super Mold Corporation of California: *See—*
Dennis, Clement O., 3,438,090.
Supercussion Drills, Inc.: *See—*
Bennett, Fred L., 3,429,390.
Superga S.p.A.: *See—*
Drago, Vittorio, 3,426,455.

Tangorra, Giorgio, 3,439,434.
Superior Concrete Accessories, Inc.: *See—*
Clasen, Richard D.; and Nichols, Fred B., 3,430,914.
Courtois, Peter D.; and Ericksson, George J., 3,420,014.
Courtois, Peter D.; and Eriksson, George J., 3,431,012.
Sledz, Edward F., 3,464,667.
Superior Continental Corporation: *See—*
Birck, Michael J., 3,471,650.
Krasin, Lester Q.; and Greene, Clifford E., 3,475,561.
Mack, Jules A., 3,471,110.
Mack, Jules A., 3,476,867.
Superior Die Set Corporation: *See—*
Stamm, Richard R., 3,469,894.
Superior Electric Company, The: *See—*
Henderson, Paul D., 3,457,836.
Henderson, Paul D., 3,462,563.
Kucharski, Louis A., 3,466,585.
Leenhouts, Albert C., 3,424,961.
Leenhouts, Albert C., 3,445,921.
Leenhouts, Albert C., 3,466,517.
Madsen, Elmer W.; and Leenhouts, Albert C., 3,466,515.
Palmero, Albert, 3,441,819.
Snowdon, Arthur E., 3,466,476.
Superior Manufacturing Co.: *See—*
Sundholm, Edwin P., 3,473,479.
Sundholm, Edwin P., 3,474,941.
Superior Pet Products, Inc.: *See—*
Nordstrom, Lars E., 3,450,483.
Superior Valve & Fittings Co.: *See—*
Yocum, William C., 3,438,391.
Supfina Wieck & Hentzen: *See—*
Wieck, Karl, 3,442,784.
Supina, Walter R.; and Fleming, George H., Jr., to Applied Science Laboratories, Inc. Coiling device. 3,420,080, 1-7-69, Cl. 72-138.
Suppan, Fritz: *See—*
Lippe, Friedrich Georg; and Suppan, Fritz,3,476,597.
Supramar A.G.: *See—*
von Schertel, Hanns, 3,464,377.
Supreme Augers, Inc.: *See—*
Cauffman, Eugene W., 3,437,192.
Suraci, Anthony J., to Jet Automatic Car Wash Equipment Company, Inc. Clip-on push roller. 3,424,103, 1-28-69, Cl. 104-172.
Surber, Frank N. Body shop apparatus. 3,457,767, 7-29-69, Cl. 72-446.
Surber, John L., Jr. Stamp vending machine. 3,420,423, 1-7-69, Cl. 226-68.
Surber, Werner: *See—*
Frey, Christoph; Hecker, August; Mueller, Rudolf; and Surber, Werner,3,472,844.
Surcon Surface Conditioning Products: *See—*
Farris, Louis A., Jr.; and Young, Luther W., 3,425,250.
Sureau, Robert Frederic Michel; and Alicot, Marie Josephe Jeanne, to Ugine Kuhlmann. Cationic dyestuffs, mixtures thereof and their use in dyeing fibers based on acrylonitrile. 3,459,489, 8-5-69, Cl. 8-25.
Surek, Casimer, to Gefco Manufacturing Corp. Anti-shoplifting device. 3,444,547, 5-13-69, Cl. 340-280.
Surelock Manufacturing Co., Inc.: *See—*
Pagnao, Frank, Sr., 3,436,727.
Surf Skimmer Ltd.: *See—*
Dawson, Edward S., 3,463,116.
Surface Research, Incorporated: *See—*
Van der Horst, Johannes Martinus Arnold, 3,423,297.
Surgent, Louis Vincent, Jr.: *See—*
Foster, George Michael; and Surgent, Louis Vincent, Jr.,3,478,354.
Surgical Eng. and Research Corp.: *See—*
Burbridge, William P.; Morgan, John R.; and Schmitt, Thomas S., 3,467,104.
Riley, Orvel K., 3,439,681.
Surgitool Inc.: *See—*
Cromie, Harry W., 3,483,494.
Surgitool Incorporated: *See—*
Cromie, Harry W., 3,464,065.
Suriani, Ernesto, to Pullman Incorporated. Treatment of titanium oxides. 3,472,648, 10-14-69, Cl. 75-1.
Suriani, Ernest: *See—*
Stukenbroeker, George L.; and Suriani, Ernest,3,451,940.
Surko, Walter E., Jr., to Emhart Corporation. Tube coupling. 3,464,721, 9-2-69, Cl. 285-174.
Surkov, Ivan Efimovich: *See—*
Vereschagin, Leonid Fedorovich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; and Surkov, Ivan Efimovich,3,446,427.
Surkovich, Albin M.: *See—*
Nix, Lawrence A., Jr.; and Surkovich, Albin M.,3,440,485.
Surland, George J.; and Magee, John S., Jr., to Grace, W. R., & Co. Preparation of silica-alumina catalyst. 3,434,976, 3-25-69, Cl. 252-453.
Surletta, Zygmunt M.; Ockershauser, Karl F.; and Koziatek, Jerry P., to Lear Siegler, Inc. Box spring bed assembly. 3,451,073, 6-24-69, Cl. 5-230.
Surmatis, Joseph Donald, to Hoffmann-La Roche, Inc. Polyene compounds and processes. 3,429,928, 2-25-69, Cl. 260-586.
Surmatis, Joseph Donald, to Hoffmann-La Roche Inc.Process for the preparation of β-carotene and intermediates thereof from waste mother liquors. 3,441,623, 4-29-69, Cl. 260-666.
Surmatis, Joseph Donald, to Hoffmann-La Roche Inc. Novel diketo coloring agent. 3,478,104, 11-11-69, Cl. 260-586.
Surmatis, Joseph Donald; and Walser, Armin, to Hoffmann-La Roche, Inc. Intermediate for synthesizing rhodoxanthin. 3,466,331, 9-9-69, Cl. 260-586.
Surna, Janis Aleksandrovich: *See—*
Alksnis, Arnold Fricevich; and Surna, Janis Aleksandrovich,3,468,910.
Surowiecki, Jerzy: *See—*
Pawlak, Zbigniew; Michalski, Kazimierz; and Surowiecki, Jerzy,3,439,633.
Surprenant, Edward V.: *See—*
Bachman, Walter S., Jr.; Erhardt, William A., Jr.; and Surprenant, Edward V.,3,461,765.
Surprenant, Norman F.: *See—*
Roberts, John A.; and Surprenant, Norman F.,3,482,703.
Surrena, Harland J.; Kirby, Aubrey M., Jr.; and Reif, Henry E., to Sun Oil Company. Hydrogenation of lube oils. 3,425,932, 2-4-69, Cl. 208-143.
Surrey, Alexander R.: *See—*
Zenitz, Bernard L.; and Surrey, Alexander R.,3,479,346.
Surrey Steel Components Limited: *See—*
Conn, Jack Samuel, 3,426,774.
Surridge, Kenneth G.: *See—*
Williams, Robert F., Jr.; Strebe, David E.; and Surridge, Kenneth G., deceased,3,436,246.
Surty, Rohinton J.: *See—*
Dietsch, Hans E.; Gow, John, III; and Surty, Rohinton J.,3,458,352.
Sus, Oskar; and Schafer, Heinz, to Keuffel & Esser Company, mesne. Diazotype process and material employing an oxazoline substituted aromatic hydroxyl compound as coupler. 3,473,928, 10-21-69, Cl. 96-49.
Sus, Oskar: *See—*
Rauhut, Herbert; and Sus, Oskar,3,432,301.
Rauhut, Herbert; and Sus, Oskar,3,462,271.
Susdorf, Robert A.; and Armstrong, Fredrick J., to General Electric Company. Dynamoelectric machine and methods of manufacturing armature assemblies therefor. 3,465,186, 9-2-69, Cl. 310-158.
Susdorf, Robert A.: *See—*
Armstrong, Frederick J.; and Susdorf, Robert A.,3,465,184.
Sushardt, Wolfgang: *See—*
Ciongwa, Joachim; and Sushardt, Wolfgang,3,474,894.
Susi, Peter Vincent: *See—*
Milionis, Jerry Peter; and Susi, Peter Vincent,3,485,650.
Susi, Peter Vincent; and Arthen, Frank Joseph, Jr., to American Cyanamid Company. Hydroxyalkyl quaternary ammonium ethers as antistatic agents. 3,445,440, 5-20-69, Cl. 260-89.5
Susi, Peter Vincent; and Coleman, Ralph Arthur, to American Cyanamid Company. Tris(p-dialkylaminophenyl)aminium hexafluoroantimonates and -arsenates. 3,440,257, 4-22-69, Cl. 260-440.
Susi, Peter Vincent; and Weston, Norman Ann, to American Cyanamid Company. Diaryl-(N,N-diarylaminoaryl)-aminium hexafluoroantimonates and hexafluoroarsenates. 3,484,467, 12-16-69, Cl. 260-440.
Suskind, Stuart P.; and Goodwin, Roy D., to Monsanto Company. Flexible non-woven sheet material and method of making the same. 3,458,387, 7-29-69, Cl. 161-154.
Susman, Harry; and Susman, Jon Edward. Preformed pontic patterns. 3,457,644, 7-29-69, Cl. 32-2.
Susman, Jon Edward: *See—*
Susman, Harry; and Susman, Jon Edward,3,457,644.
Susor, William C., to Reliance Electric and Engineering Company, The, mesne. Computer weighing system. 3,453,422, 7-1-69, Cl. 235-151.33
Susor, William C., to Toledo Scale Corporation. Computing and printing weighing scales with multiplexing circuitry for double use of system components. 3,458,692, 7-29-69, Cl. 235-151.33
Susor, William C., to Reliance Electric and Engineering Company, The, mesne. Condition responsive apparatus. 3,459,272, 8-5-69, Cl. 177-44.
Susor, William C.; and Bell, Robert E., to Reliance Electric and Engineering Company, mesne. Computing weighing scale system. 3,459,271, 8-5-69, Cl. 177-3.
Susor, William C.; and Martin, Orval J., to Reliance Electric and Engineering Company, The, mesne. Control circuitry for discriminating price computation. 3,447,617, 6-3-69, Cl. 177-3.
Susor, William C.: *See—*
Hall, Donivan L.; and Susor, William C.,3,443,667.
Hall, Donivan L.; and Susor, William C.,3,443,668.

Susquehanna Corporation, The: *See—*
Blumenkranz, James J.; and Wise, Eugene H., 3,462,890.
Blumenkranz, James J., 3,465,126.
Boswell, George T., 3,457,382.
Britt, James E., 3,420,950.
Britt, James E., 3,430,008.
Brown, Robert M., 3,466,469.
Cothran, Wade R., 3,478,437.
Haskins, Arlie W., 3,457,181.
Jensen, William Paul; and Lazerus, Stanley, 3,421,984.
Jensen, William Paul, 3,451,782.
Lagerstrom, Thomas G.; and Reed, Jerry A., 3,451,306.
Savage, John W., 3,431,487.
Savage, John W., 3,441,851.
Savage, John W., 3,464,017.
Silver, Bernard; and Bolta, Christian C., 3,430,619.
Snyder, John G., 3,481,246.
Stanley, Harvey N., 3,452,155.
Tisdale, Norman E., Jr., 3,467,173.
Vander Plaats, Marvin P., 3,467,864.
Wallace, Jacob L., Jr., 3,441,685.
Wallace, Jacob L., Jr., 3,456,079.
Wallace, Jacob L., Jr., 3,482,117.
Wallace, Jacob L., Jr., 3,486,160.
Wallace, Jacob Lightsey, Jr., 3,422,229.
Wallace, Jacob Lightsey, Jr., 3,428,949.
Suss, Hans: *See—*
Seelbach, Erich; and Suss, Hans,3,467,446.
Susskind, Alfred K.: *See—*
Forrester, Jay W.; Pease, William M.; McDonough, James O.; and Susskind, Alfred K.,3,431,478.
Susskind, Herbert: *See—*
Gurinsky, David H.; Powers, Richard M.; and Susskind, Herbert,3,429,774.
Sussman, Milton H.: *See—*
Muller, Robert M.; and Sussman, Milton H.,3,437,398.
Sussmann, Erhard, to Siemens Aktiengesellschaft. Epitactic method. 3,486,933, 12-30-69, Cl. 117-213.
Sussmann, Erhard: *See—*
Ullrich, Hans; and Sussmann, Erhard,3,445,927.
Susten-Anstalt: *See—*
Bieri, Rudolf; and Bieri, Hans, 3,455,324.
Susuki, Rinnosuke; and Hoshi, Hiroshi, to Raion Yushi Kabushiki Kaisha. Sealed cuboid container utilizing a sheet of synthetic resin film for packing powder or fine particles and its fabricating method. 3,430,845, 3-4-69, Cl. 229-87.
Suszko, Donald H.: *See—*
Colautti, Albert J.; and Suszko, Donald H.,3,479,727.
Sutaruk, Alex, to Eaton Yale & Towne, Inc. Drive mechanism. 3,444,748, 5-20-69, Cl. 74-217.
Sutaruk, Alex, to Eaton Yale & Towne, Inc. Drive mechanism. 3,445,057, 5-20-69, Cl. 230-15.
Sutcliffe, Eugene G.: *See—*
Carder, Mervin L.; and Sutcliffe, Eugene G.,3,474,837.
Sutcliffe, Richard, Engineering Systems Limited: *See—*
Metcalfe, Peter Newsome, 3,459,291.
Suteau, Louis Rene Maxime. Mobile silo. 3,455,475, 7-15-69, Cl. 214-500.
Suter, Bruno, to Strabag Bau-AG. Arrangement and method for constructing multi- span bridges or the like. 3,448,511, 6-10-69, Cl. 29-429.
Suter, Charles A.: *See—*
Finelli, Anthony F.; and Suter, Charles A.,3,446,779.
Gursky, Ladislav A.; Suter, Charles A.; and Robinson, Keith D.,3,453,164.
Suter, Hans; and Zutter, Hans, to Eprova Limited. Radiopaque esters of triiodophenoxyalkanoic acids. 3,435,066, 3-25-69, Cl. 260-473.
Suter, Hans; and Zutter, Hans, to Swiss Serum and Baccine Institute, and Research of Infectious Diseases, The. Hypoglycemic sulfonamido-s-triazines. 3,485,834, 12-23-69, Cl. 260-249.5
Suter, Hubert: *See—*
Goelz, Horst; Suter, Hubert; Brunnmueller, Friedrich; and Palm, Albert,3,449,412.
Schaefer, Gerhard; Suter, Hubert; Wirth, Friedrich; and Mann, Walter,3,420,750.
Suter, Hubert; Nohe, Heinz; Beck, Fritz; and Hrubesch, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cyclohexadiene dicarboxylic acids. 3,471,381, 10-7-69, Cl. 204-73.
Suter, John F.: *See—*
Mills, Edward J., Jr.; and Suter, John F.,3,483,156.
Sutheo Incorporated: *See—*
Bisbing, Robert H., 3,457,744.
Sutherland, Charles Alexander: *See—*
Landucci, Louis; McKay, Donald Roderick; and Sutherland, Charles Alexander,3,484,201.
Sutherland, Gail Russell: *See—*
Copley, Russell Dean; and Sutherland, Gail Russell,3,464,191.
Sutherland, Glenn E.: *See—*
Bergstrom, James W.; and Sutherland, Glenn E.,3,422,173.
Sutherland, James F., to Westinghouse Electric Corporation. Signal coupled logic gate circuit. 3,440,437, 4-22-69, Cl. 307-88.
Sutherland, James F., to Westinghouse Electric Corporation. Open thermocouple detection apparatus. 3,468,164, 9-23-69, Cl. 73-343.
Sutherland, John A. Water heating. 3,423,932, 1-28-69, Cl. 60-39.56
Sutherland, John D.: *See—*
Gunson, William E.; Sutherland, John D.; and Tower, Stephen N.,3,437,558.
Sutherland, John P.: *See—*
Capes, Charles E.; Sutherland, John P.; and Mc Ilhinney, Allan E.,3,471,267.
Sutherland, Lionel M. Apparatus and process for washing a pulp web. 3,454,970, 7-15-69, Cl. 8-156.
Sutherland, Walter J., to Spadone Machine Company, Incorporated. Method and apparatus for preparing tread members for pneumatic tires. 3,472,716, 10-14-69, Cl. 156-128.
Sutherland, William Drummond, to Muirhead & Co., Limited. Visual indication of temperature change. 3,433,075, 3-18-69, Cl. 73-356.
Sutherns, Edward Arthur; and Hirsch, Hans, to Eastman Kodak Company. Photodevelopable direct-print compositions containing cuprous salts. 3,420,669, 1-7-69, Cl. 96-108.
Sutliff, Meryl W.: *See—*
Sutliff, Wayne N.; Sutliff, Meryl W.; and Downen, Jim L.,3,485,297.
Sutliff, Robert C.; Burgo, Paul A.; Butler, Ernest J.; and Pierson, Charles W., to Eastman Kodak Company. Dielectric package sealer. 3,431,380, 3-4-69, Cl. 219-10.53
Sutliff, Wayne N.; and Downen, Jim L. Fishing tool energizer. 3,472,326, 10-14-69, Cl. 175-299.
Sutliff, Wayne N.; Sutliff, Meryl W.; and Downen, Jim L. Automatic self-setting slip-type steam packer. 3,485,297, 12-23-69, Cl. 166-121.
Sutowsi, Walter S. Wheel structures. 3,446,536, 5-27-69, Cl. 301-1.
Sutowski, Walter S. Wheel. 3,446,537, 5-27-69, Cl. 301-1.
Sutter, Clair G.: *See—*
Ashley, Paul E.; and Sutter, Clair G.,3,430,276.
Sutter, Hubert: *See—*
Haas, Friedrich; Vohwinkel, Kurt; Nutzel, Karl; and Sutter, Hubert,3,457,218.
Sutter, Ormond S., to Lock Products Co. Clip. 3,456,971, 7-22-69, Cl. 287-189.35
Sutter Products Company: *See—*
Sutter, Raymond H., 3,464,677.
Sutter, Raymond H., to Sutter Products Company. Foundry sand mixer system. 3,464,677, 9-2-69, Cl. 259-154.
Sutter, Robert W.: *See—*
Grove, Dwight L.; Grove, John L.; and Sutter, Robert W.,3,430,792.
Sutter, Warren H.; and Kramer, Donald F., to Signode Corporation. Grain door kit for transport vehicles. 3,451,544, 6-24-69, Cl. 206-65.
Suttle Corporation: *See—*
MacDowell, James E., 3,450,844.
Suttles, John R.: *See—*
Westervelt, Ralph; and Suttles, John R.,3,483,762.
Sutton, Blaine M.: *See—*
Blank, Benjamin; and Sutton, Blaine M.,3,475,427.
Sutton, Blaine M., to Smith Kline & French Laboratories. C-aminoalkylaminoalkylphenothiazine derivatives. 3,471,482, 10-7-69, Cl. 260-243.
Sutton, Carl E.: *See—*
Martel, Richard A.; Davis, William R.; and Sutton, Carl E.,3,478,217.
Sutton, Charles D.: *See—*
Dashew, Stanley A.; Tumpak, John; and Sutton, Charles D.,3,429,280.
Sutton, Charles O., to American Binder Company, The. Envelope separator. 3,450,307, 6-17-69, Cl. 221-74.
Sutton, David R.: *See—*
Cappel, Marvin, Jr.; and Sutton, David R.,3,475,721.
Sutton, David R. Glove form. 3,486,670, 12-30-69, Cl. 223-78.
Sutton, Donald E., to Hammond Machinery Builders, Inc. Adjustable stroke control device. 3,440,933, 4-29-69, Cl. 92-13.
Sutton, Donald E., to Hammond Machinery Builders, Inc. Face mill grinder. 3,450,618, 6-17-69, Cl. 204-199.
Sutton, Floyd J. Boat loading and unloading apparatus for a vehicle. 3,435,970, 4-1-69, Cl. 73-54.
Sutton, Jack, to Stibble, G., & Company Limited. Patterning system for knitting machines. 3,446,037, 5-27-69, Cl. 66-25.
Sutton, Jimmy E. Pipe sling. 3,425,737, 2-4-69, Cl. 294-74.
Sutton, Jonel D., to Digital Equipment Corporation. Overload protected transistor amplifier. 3,465,175, 9-2-69, Cl. 307-297.
Sutton, Paul C.: *See—*
Haner, Robert B., Jr.; Sibley, Henry C.; Sutton, Paul C.; and Pettitt, Walter G.,3,435,223.
Sutton, Ralph L.: *See—*
Barkstrom, Reynold; and Sutton, Ralph L.,3,448,565.

Sutton, Ralph O., 50% to Chaney, Paul M. Method for measuring depth of top plug in well casing cementing. 3,426,204, 2-4-69, Cl. 250-83.6

Sutton, Ralph O.; and Jones, Clifford L. Sucker rod on and off attachment. 3,455,248, 7-15-69, Cl. 103-202.

Sutton Research Corporation: *See—*
Briskin, Theodore S; and Ward, Geoffrey R., 3,447,539.
Briskin, Theodore S.; and Ward, Geoffrey R., 3,478,751.
Briskin, Theodore S.; and Ward, Geoffrey R., 3,478,752.

Sutton, Robert G., to Scott Paper Company. Liquid reticulation of polyurethane foams. 3,423,337, 1-21-69, Cl. 260-2.5

Sutton, Robert G., to Scott Paper Company. Catalyted liquid reticulation of polyurethane foams. 3,423,338, 1-21-69, Cl. 260-2.5

Sutton, Robert W. Centrifugal pump. 3,444,818, 5-20-69, Cl. 103-111.

Sutton, Thomas A.: *See—*
Brooks, Charles; and Sutton, Thomas A.,3,436,297.

Sutton, Walter T., Jr.; Broyles, James D.; and Schweiger, Manfred U., to Texas Instruments, Incorporated. Differential flow sensing apparatus. 3,465,534, 9-9-69, Cl. 62-151.

Sutton, Walter T., Jr.; Broyles, James D.; Sims, James B.; and Botts, Nelson F., to Texas Instruments, Incorporated. Dryer control. 3,475,830, 11-4-69, Cl. 34-45.

Sutz, Richard K. Sport fishing reel. 3,476,332, 11-4-69, Cl. 242-99.

Suvada, Steve L.; and Snyder, Richard C., to Pullman Incorporated. Floor attaching assembly for railroad car floors. 3,429,089, 2-25-69, Cl. 52-483.

Suverkrop, Beth: *See—*
Suverkrop, Lew,3,435,950.

Suverkrop, Lew, deceased0 (by Suverkrop, Beth; executrix). Materials separation devices. 3,435,950, 4-1-69, Cl. 209-73.

Suverkropp, Claus P. J., to Signetics Corporation. Magazine for integrated circuit modules. 3,435,949, 4-1-69, Cl. 206-56.

Suverkropp, Geertrudes H., to Stamicarbon N.V. Process for the preparation of optically active lysine. 3,431,295, 3-4-69, Cl. 260-501.11

Suyama, Frank: *See—*
Maxwell, Douglas H.; and Suyama, Frank,3,462,820.

Suyematsu, Herbert T.: *See—*
Roney, Robert K.; Rosen, Harold A.; Hudspeth, Thomas; Suyematsu, Herbert T.; and Eick, Meredith K.,3,453,621.

Suzue, Seigo: *See—*
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori,3,462,533.
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotaka,3,467,691.

Suzuka, Tsuneo; and Noda, Haruhisa, to Nippon Gakki Seizo Kabushiki Kaisha. Bridges for piano. 3,468,207, 9-23-69, Cl. 84-209.

Suzuka, Tsuneo: *See—*
Taguchi, Hanzo; and Suzuka, Tsuneo,3,472,112.

Suzuki, Akio: *See—*
Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio,3,470,073.
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakuni, Masahiko,3,480,521.

Suzuki, Akio, to Clevite Corporation. Push button piezoelectric igniter. 3,449,637, 6-10-69, Cl. 317-81.

Suzuki, Gohei: *See—*
Kawai, Katsumi; Suzuki, Gohei; and Kitamura, Yoshito,3,429,240.

Suzuki, Goro: *See—*
Inamiya, Tatsuya; Suzuki, Goro; Tanikawa, Masaru; and Matsui, Takao,3,466,390.

Suzuki, Hirofumi; Koike, Michiharu; and Fujiwara, Hisashi, to Nippon Columbia Kabushikikaisha (Nippon Columbia Co., Ltd.). Three electron gun color picture tube. 3,440,468, 4-22-69, Cl. 313-70.

Suzuki, Hiroshi; Hujimori, Tosio; and Ida, Saburo, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of making fibrous yarns and apparatus therefor. 3,474,611, 10-28-69, Cl. 57-31.

Suzuki, Hiroshi; and Ogawa, Tadayuki, to Tokyo Shibaura Denki Kabushiki Kaisha. Readily disassembled electric fan. 3,446,429, 5-27-69, Cl. 230-259.

Suzuki, Hisao: *See—*
Morita, Yoshio; Watanabe, Takaji; Suzuki, Hisao; and Kawamura, Junji,3,459,573.
Toyoda, Hiromichi; Tayama, Kazuo; Miyazaki, Yoshitoshi; Hinohara, Keiichi; and Suzuki, Hisao,3,472,071.

Suzuki, Isamu: *See—*
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi,3,474,068.

Suzuki Jidosha Kogyo Kabushiki Kaisha (Trade name Suzuki Motor Co., Ltd.): *See—*
Atsumi, Kunio, 3,435,914.

Suzuki, Katsumi; and Kumashiro, Izumi, to Ajinomoto Co., Inc.Method of synthesizing adenosine, 2',3'-0- isopropylidene-adenosine and intermediates thereof. 3,450,693, 6-17-69, Cl. 260-211.5

Suzuki, Katsumi: *See—*
Yamada, Yoshitaka; Kumashiro, Izumi; Takenishi, Tadao; and Suzuki, Katsumi,3,468,901.

Suzuki, Kazuhisa, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of treating alloy steel. 3,470,037, 9-30-69, Cl. 148-127.

Suzuki, Kazuhisa, to Mitsubishi Jukogyo Kabushiki Kaisha. Triply shielded arc welding method. 3,473,002, 10-14-69, Cl. 219-137.

Suzuki, Kazuo: *See—*
Toshida, Shunichi; Suda, Hiroharu; and Suzuki, Kazuo,3,457,800.

Suzuki, Keisuke: *See—*
Tsumura, Takao; Kadooka, Toshio; Suzuki, Keisuke; and Kitayama, Noboru,3,444,553.

Suzuki, Kensei; Tamura, Shigeo; Kawachi, Yoshinori; and Nagafuji, Naohiro. Hydraulic lock device. 3,477,550, 11-11-69, Cl. 188-96.

Suzuki, Kozaburo; Seki, Toshio; and Kawakami, Yohei, to Nitto Kasei Co., Ltd. Dihydrocarbyl tin maleic acid esters and their use as PVC stabilizers. 3,433,763, 3-18-69, Cl. 260-45.75

Suzuki, Mamoru: *See—*
Fukuoka, Yukio; Kusayama, Senji; and Suzuki, Mamoru,3,457,212.

Suzuki, Masatoshi: *See—*
Kawabata, Yoshikazu; Uchida, Takeshi; and Suzuki, Masatoshi,3,472,943.

Suzuki, Minoru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Interchangeable lens camera. 3,439,600, 4-22-69, Cl. 95-44.

Suzuki, Minoru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic film winding arrangement of photographic camera. 3,448,669, 6-10-69, Cl. 95-31.

Suzuki, Minoru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic camera shutter release and film advancing mechanism. 3,448,670, 6-10-69, Cl. 95-31.

Suzuki, Minoru; and Uno, Naoyuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera diaphragm opening indicating system. 3,470,805, 10-7-69, Cl. 95-42.

Suzuki, Minoru; and Uno, Naoyuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Lens compensated light measuring system in single lens reflex camera. 3,486,434, 12-30-69, Cl. 95-64.

Suzuki, Minoru: *See—*
Uno, Naoyuki; Sakazaki, Tadazumi; and Suzuki, Minoru,3,451,323.

Suzuki, Mitsuaki: *See—*
Umeda, Haruhiko; Ikemoto, Kenji; and Suzuki, Mitsuaki,3,437,187.

Suzuki, Monoru; and Nomura, Katsuhiko, to Asahi Kogaku Kogyo Kabushiki Kaisha. Shutter release system in automatic film winding camera. 3,481,262, 12-2-69, Cl. 95-31.

Suzuki, Motohiko; Khriyama, Osamu; Aoyama, Kazumi; and Takuma, Zenzaburou. Anchoring device of steel wire for prestressed concrete. 3,439,462, 4-22-69, Cl. 52-223.

Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo, to Showa Electric Wire and Cable Co., Ltd. Imidazopyrrolone dicarboxylic acids and a process for their preparation. 3,474,109, 10-21-69, Cl. 260-309.2

Suzuki, Munehiko; Hosokawa, Etsuo; Hirata, Shinsuke; and Hoshino, Tetsuo, to Showa Electric Wire and Cable Co., Ltd. Polyamide-imidazopyrrolone condensation polymers. 3,487,051, 12-30-69, Cl. 260-78.

Suzuki, Naomichi: *See—*
Mori, Tadamichi; Yanagawa, Yoshihiko; and Suzuki, Naomichi,3,481,258.

Suzuki, Nobuo: *See—*
Ichikawa, Yataro; and Suzuki, Nobuo,3,431,296.

Suzuki, Reiichi; Shioyama, Yutaka; and Takubo, Tadashi, to Nitto Kasei Co., Ltd. Method for preparing triorganotin halides and bis (triorganotin)oxides. 3,475,472, 10-28-69, Cl. 260-429.7

Suzuki, Reiichi; Takubo, Tadashi; Shioyama, Yutaka; Sakamoto, Kazuhiko; and Tahara, Tadasu, to Nitto Kasei Co., Ltd. Method for preparing triorganotin halides and bis- (triorganotin) oxides. 3,471,539, 10-7-69, Cl. 260-429.7

Suzuki, Saburo; Kurata, Masaya; Akiyoshi, Akikazu; Aoshima, Shozo; Dan, Hirohiko; and Matsuoka, Norimichi, to Mitsubishi Chemical Industries Limited. Method of manufacturing toluene diisocyanate. 3,484,472, 12-16-69, Cl. 260-453.

Suzuki, Satoru: *See—*
Nakashima, Hirotaka; Maeda, Katsunosuke; Fukunaga, Togo; Suzuki, Satoru; and Matsuoka, Kenichiro,3,468,121.

Suzuki, Shigekazu: *See—*
Hatta, Ryozo; Kinugawa, Jiro; Yamamoto, Hiroichi; Sumina, Ikuo; Tamura, Bunzo; and Suzuki, Shigekazu,3,458,638.

Suzuki, Shigenari: *See—*
Ogasawara, Takahisa; Tatemichi, Hidemaro; Ito, Hiroo; and Suzuki, Shigenari,3,458,568.

Suzuki, Shigeru; and Baba, Yasutaka, to Nihon Denshi Kabushiki Kaisha. Beam deflecting apparatus with deflection coils located within an electron microscope specimen chamber. 3,445,652, 5-20-69, Cl. 250-49.5

Suzuki, Shigeto, to Chevron Research Corporation. 8-Chloro-1-octene. 3,459,819, 8-5-69, Cl. 260-654.
Suzuki, Shigetoshi; and Takeda, Eisuke, to Tokyo Shibaura Electric Co., Ltd. Transceiver using common compression amplifier for transmission and reception. 3,470,472, 9-30-69, Cl. 325-18.
Suzuki, Shigeyuki: *See—*
Mayumi, Kanji; Yamaki, Kiyoshi; Konishi, Akio; Suzuki, Shigeyuki; and Kiyama, Soji,3,428,482.
Suzuki, Shiro, to Meidensha Electric Mfg. Co., Ltd. Method and means for protecting an AC electric system from short circuits by a distance relay having quadrilateral characteristics. 3,475,655, 10-28-69, Cl. 317-27.
Suzuki, Shizuo; and Takeuchi, Koso, to Kurita Industrial Co., Ltd. Method of disintegrating slimes. 3,454,427, 7-8-69, Cl. 134-22.
Suzuki, Shozo: *See—*
Ogata, Kazuo; Kazama, Kiyoshi; Suzuki, Shozo; and Morimatsu, Yasuo,3,442,868.
Suzuki, Takao: *See—*
Wada, Yoshio; Watanabe, Eiji; and Suzuki, Takao,3,469,093.
Suzuki, Takashi; and Watanabe, Takahide, to Sumitomo Electric Industries, Ltd. Constant current semiconductor device. 3,435,302, 3-25-69, Cl. 317-234.
Suzuki, Takashi: *See—*
Yamashita, Akio; and Suzuki, Takashi,3,447,989.
Suzuki, Takenori: *See—*
Yanagihara, Kotaro; and Suzuki, Takenori,3,463,698.
Suzuki, Teruhiko: *See—*
Minekawa, Saburo; Yamaguchi, Koretaka; Toyomoto, Kazuo; Fujimoto, Einosuke; and Suzuki, Teruhiko,3,449,179.
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru, to Asahi Kasei Kogyo Kabushiki Kaisha. Combustible blank cartridge. 3,433,156, 3-18-69, Cl. 102-39.
Suzuki, Teruhiko; Nomura, Junichi; Kameyama, Daijiro; and Miyoshi, Minoru. Asahi Kaser Kogyo Kabushiki Kaisha Propellant charge for small arms ammunition. 3,442,213, 5-6-69, Cl. 102-38.
Suzuki, Toshi; and Ishii, Kaoru, to Victor Company of Japan, Limited. Magnetic transducer head with single turn winding of self hardening material. 3,443,040, 5-6-69, Cl. 179-100.2
Suzuki, Toshi: *See—*
Kinjo, Hisao; and Suzuki, Toshi,3,445,608.
Suzuki, Toshitaka; and Sugawara, Toru, to Hitachi, Ltd. Differential frequency rate system for providing a pulse train output corresponding to the frequency difference between two imput pulse trains. 3,447,812, 6-3-69, Cl. 328-133.
Suzuki, Toshitaka; and Sugawara, Toru, to Hitachi, Ltd. Differential frequency rate system for providing a pulse train output corresponding to the frequency difference between two imput pulse trains. 3,448,389, 6-3-69, Cl. 328-133.
Suzuki, Yahiko: *See—*
Matsubayashi, Tadao; and Suzuki, Yahiko,3,433,707.
Suzuki, Yasuo: *See—*
Kitagawa, Hiroshi; Maeda, Yo; Nakamura, Shuhei; Miyagi, Toru; Itoh, Seiichi; Kimura, Minondo; and Suzuki, Yasuo,3,428,555.
Mikoshiba, Tomoyoshi; Suzuki, Yasuo; and Ishizawa, Shingo,3,476,674.
Suzuki, Yasuo; and Kameyama, Yasuyoshi, to Matsushita Denko Kabushiki Kaisha. Self-starting synchronous motor. 3,454,801, 7-8-69, Cl. 310-156.
Suzuki, Yoshihisa; and Tanaka, Yoshio, to Kabushiki Kaisha Hitachi Seisakusho. Microwave transducer and electron device with microwave transducer. 3,432,716, 3-11-69, Cl. 315-3.5
Suzusho, Hiroshi: *See—*
Ogawa, Takeshi; and Suzusho, Hiroshi,3,484,186.
Svabek, John E., Jr.: *See—*
Maciulaitis, Vytautus K.; Svabek, John E., Jr.; and Schrock, Donald C., Sr.,3,473,173.
Svadlenak, Rudolf E., to Du Pont de Nemours, E. I., and Company. Anhydrous chromic acid metal treating solution. 3,437,531, 4-8-69, Cl. 148-6.2
Svagerko, Cyil M.Game apparatus for playing tic-tac-toe or the like. 3,425,697, 2-4-69, Cl. 273-130.
Svala, Carl Gunnar, to New North Electric Company, mesne. Low loss signal detector circuit for telephone system. 3,448,221, 6-3-69, Cl. 179-18.
Svantesson, Erik: *See—*
Sundberg, Yngve; and Svantesson, Erik,3,433,878.
Svard, Alf Georg. Aspiration device, especially for use in dental practice. 3,484,941, 12-23-69, Cl. 32-33.
Svaty, Vladimir. Method and apparatus for manipulating selvage warp and weft yarns. 3,451,436, 6-24-69, Cl. 139-55.
Svaty, Vladimír. Method and apparatus for tensioning a slack weft thread. 3,464,458, 9-2-69, Cl. 139-194.
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri, to Elitex, Zavody textilniho strojirenstvi. Shuttle-controlling apparatus for weaving looms. 3,429,344, 2-25-69, Cl. 139-144.
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri, to Elitex, Zavody textilniho strojirenstvi. Shuttle driving appartus for weaving looms. 3,433,271, 3-18-69, Cl. 139-144.
Svaty, Vladimir; Rambousek, Zdenek; and Nadvornik, Josef, to Elitex, Zavody textilniho strojirenstvi. Control apparatus for a loom. 3,435,854, 4-1-69, Cl. 139-1.
Svaty, Vladimir; and Zlatohlavek, Jiri. Weft thread cutting arrangement. 3,487,436, 12-30-69, Cl. 139-125.
Svaty, Vladimir: *See—*
Rambousek, Zdenek; Svaty, Vladimir; and Taticek, Lubomir,3,424,206.
Sveda, Michael. Process and apparatus for graphical representation of intellectual profiles and combinations of mental characteristics and disciplines in science, education and business fields. 3,449,841, 6-17-69, Cl. 35-22.
Svedberg, Per: *See—*
Boksjo, Ingvar; Olsson, Karl-Erik; and Svedberg, Per,3,487,261.
Edqvist, Olle; Svedberg, Per; and Vedin, Bengt-Arne,3,437,886.
Svedberg, Per, to Allmanna Svenska Elektriska Aktiebolaget. Rectifying semi-conductor body. 3,470,036, 9-30-69, Cl. 148-33.5
Svein Stromberg & Co. A/S: *See—*
Stromberg, Svein Petro, 3,442,418.
Svenchansky, Alexandr Danilovich: *See—*
Gutterman, Kirill Davidovich; Prozorova, Nina Dmitrievna; Svenchansky, Alexandr Danilovich; and Smelyansky, Matvei Yakovlevich,3,473,105.
Svendsen, John A.: *See—*
Anderson, Glenn R.; and Svendsen, John A.,3,428,400.
Svendsen, Konrad S.; and Schnorr, William J. Steel rule cutting die and method of fabrication. 3,464,293, 9-2-69, Cl. 76-107.
Svensda Dataregister AB: *See—*
Englund, Gosta R.; and Andren, Rolf B., 3,461,887.
Svenska Ackumulator Aktiebolaget Jungner: *See—*
Asklund, Per Filip Andreas; and Frode, Per Enar Lennart, 3,455,482.
Falk, Sven Uno; Jonsson, Erik; and Soredal, Sven Gunnar, 3,443,996.
Thornblad, Rolf F. G., 3,467,550.
Thornblad, Rolf Filip Gunnar; and Frode, Per Enar Lennart, 3,449,170.
Svenska Aktiebolaget Bromsregulator: *See—*
Bjereus, Sven R., 3,470,696.
Larsson, Karl Bertil; and Sander, Nils Borje Lennart, 3,430,740.
Nilsson, Ragnar H., 3,447,425.
Presson, Gert Artur; and Sander, Nils Borje Lennart, 3,430,739.
Svensson, Sten-Eric; and Lilja, Kaj Anders, 3,444,758.
Svenska Cellulosa Aktiebolaget: *See—*
Bergholm, Carl Arne, 3,420,450.
Svenska Dataregister AB: *See—*
Englund, Gosta R.; and Mattsson, Mats E., 3,420,438.
Englund, Gosta R., 3,477,639.
Svenska Jastfabriksaktiebolaget: *See—*
Lundin, Ingvar Oskar Wallentin; and Eriksson, Sven Axel, 3,468,419.
Svenska Oljeslageri Aktiebolaget: *See—*
Berndtsson, Berndt Sigurd, 3,441,576.
Svenska Rotor Maskiner Aktiebolag: *See—*
Nilson, Nils Emil R., 3,461,949.
Nilsson, Hans Robert, 3,468,294.
Schibbye, Lauritz Benedictus, 3,423,017.
Schibbye, Lauritz Benedictus, 3,432,089.
Schibbye, Lauritz Benedictus, 3,462,072.
Schibbye, Lauritz Benedictus, 3,467,300.
Svenson, Bert N., to Potter-Roemer, Inc. Firehose clamp. 3,422,839, 1-21-69, Cl. 137-355.18
Svenson, Bert N. Self-adjusting workpiece clamp. 3,436,072, 4-1-69, Cl. 269-94.
Svenson, Bert N.; and Svensson, Ivar L. Check valve with supported closure member. 3,473,561, 10-21-69, Cl. 137-525.
Svensson, Ake Bertil Fredrik: *See—*
Avsan, Oleg; Noren, Lars-Olof; Sparrendahl, Gunnar Erik William; and Svensson, Ake Bertil Fredrik,3,475,732.
Svensson, Assar Natanael, to Skelleftea Gummifabriks A.-B. Vehicle track. 3,463,562, 8-26-69, Cl. 305-38.
Svensson, Assar Natanael; and Brandt, Bertil, to Skelleftea Gummifabriks A.-B. Sieve elements. 3,456,795, 7-22-69, Cl. 209-399.
Svensson, Assar: *See—*
Brandt, Bertil; and Svensson, Assar,3,480,321.
Svensson, Einar. Building construction and method of erection. 3,462,894, 8-26-69, Cl. 52-90.
Svensson, Erik Patrik Viktor; and Nyberg, Uno, to KGL Luftfartsstyrelsen. Mast structures. 3,447,276, 6-3-69, Cl. 52-648.
Svensson, Ernst Sture Lennart, to Flymo Societe Anonyme. Lawnmowers. 3,452,523, 7-1-69, Cl. 56-25.4
Svensson, Harald, to Facit-Halda AB. Longitudinally adjustable joint, for example, for office machines. 3,467,420, 9-16-69, Cl. 287-58.
Svensson, Ivar L.: *See—*
Svenson, Bert N.; and Svensson, Ivar L.,3,473,561.
Svensson, Lars, to Palm, B., & Co. Damper arrangements for oil-burner assemblies. 3,438,568, 4-15-69, Cl. 230-114.
Svensson, Oake: *See—*
Lapsevskis, Vilnis; and Svensson, Oake,3,478,173.

Svensson, Sten-Eric; and Lilja, Kaj Anders, to Svenska Aktiebolaget Bromsregulator. Vehicle brake linkage slack-adjuster. 3,444,758, 5-20-69, Cl. 74-559.

Sverdrup, Edward F.: *See*—
Archer, David H.; Glasser, Albert D.; Sverdrup, Edward F.; and Taylor, Herbert L.,3,433,680.

Svereika, Edward: *See*—
Pool, Stuart D.; Svereika, Edward; and Middlesworth, Tommy A.,3,481,122.
Pool, Stuart D.; Svereika, Edward; and Thayer, Arlie J.,3,462,932.

Sverre Munck A/S: *See*—
Munck, Fredrik, 3,484,014.

Sveshnikov, Jury Fedorovich: *See*—
Kuljbakh, Valjter Osvaljdovich; Sokolov, Leonid Borisovich; Sveshnikov, Jury Fedorovich; Kuznetsova, Olja Alexandrovna; Malinovskaja, Galina Nickolaevna; and Raigorodskaja, Valentina Jakovlevna,3,439,090.

Sveshnikov, Vasily Petrovich: *See*—
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.

Sviblov, Lev Borisovich: *See*—
Zablotsky, Igor Evgenievich; Korostelev, Jury Alexandrovich; Lebedev, Anatoly Vasilievich; Sviblov, Lev Borisovich; and Tolchinsky, Efim Moiseevich,3,467,358.

Sviden, Ove: *See*—
Eckered, Thomas Harald; Sviden, Ove; and Ljungstrom, Olle,3,478,836.

Svihra, Paul M.: *See*—
Kracht, Gerhard; and Svihra, Paul M.,3,477,325.

Svilpe, Karl Yanovich; Luft, Genakh Maxovich; Betiyan, Andris Alfredovich; Milyaev, Viktor Vasilievich; Gurevich, Leib Borukhovich; and Seleznev, Ivan Vasilievich. Adjustable rheostat means for liquid level gauges. 3,432,790, 3-11-69, Cl. 338-33.

SVIT narodni podnik: *See*—
Jurik, Rudolf; and Dvorak, Ludvik, 3,432,869.
Vanek, Josef, 3,486,350.

Svoboda, Antonin; Oblonsky, Jan; and Korvas, Zdenek, to Vyzkumny ustav matematickych stroju. Modular data processing system. 3,434,118, 3-18-69, Cl. 340-172.5

Svoboda, Daniel, to Stearns-Roger Corporation, The. Traveling plow feeder. 3,441,149, 4-29-69, Cl. 214-17.

Svoboda, Frantisek; and Kliment, Lubomir, to Vyzkumny ustav pletarsky. Needle selecting assemblies for flat-knitting machines. 3,449,929, 6-17-69, Cl. 66-154.

Svoboda, Glenn R.: *See*—
Kwan, Fred K. C.; Ross, Richard C.; and Svoboda, Glenn R.,3,432,458.

Svoboda, James: *See*—
Borer, Herbert W.; Ehlke, Charles C.; and Svoboda, James,3,432,051.

Svoboda, Jiri: *See*—
Mittig, Milan; and Svoboda, Jiri,3,474,485.

Svoboda, Johann; and Svoboda, Rudolf. Furniture. 3,472,394, 10-14-69, Cl. 211-169.

Svoboda, Rudolf: *See*—
Svoboda, Johann; and Svoboda, Rudolf,3,472,394.

SW Industries, Inc.: *See*—
Mitchell, Paul J., Jr., 3,460,222.

Swabettes, Inc.: *See*—
Pezza, Lazzaro, 3,449,796.

Swafford, Kenneth L.; Duke, Doyal P.; and Hazelwood, Roy E. Mixing apparatus. 3,433,464, 3-18-69, Cl. 259-8.

Swaim, Frank H., to United States of America, Navy. Time delay mechanism. 3,420,177, 1-7-69, Cl. 102-81.

Swaim, Frank H., to United States of America, Navy. Acceleration responsive electrical switch. 3,479,476, 11-18-69, Cl. 200-61.45

Swain, Anthony W. Laundry machines. 3,439,847, 4-22-69, Cl. 223-70.

Swain, Arthur B., to Owens-Illinois, Inc. Amber glasses and process. 3,481,750, 12-2-69, Cl. 106-52.

Swain, David L., to General Electric Company. Ignition circuit for an arc-discharge lamp and devices therefor. 3,474,290, 10-21-69, Cl. 315-173.

Swain, Francis Alan: *See*—
Britt, Jack; and Swain, Francis Alan,3,428,243.

Swain, Geoffrey: *See*—
Doyle, Peter; Swain, Geoffrey; and Wylie, Alastair Graham,3,463,784.

Swain, Kenneth W., to Chase-Shawmut Company, The. Current limiting fuse for use in rotating machinery. 3,465,275, 9-2-69, Cl. 337-158.

Swaine, Harry Dugdale. Drive system for a vehicle. 3,476,201, 11-4-69, Cl. 180-65.

Swainson, Eric, to Lightning Fasteners Limited. Sliding clasp fastener stringers. 3,430,304, 3-4-69, Cl. 24-205.1

Swaisgood, Ralph H., to Storm Products Company. Soldering apparatus. 3,478,878, 11-18-69, Cl. 210-70.

Swaithes, Earl, to Spartans Industries, Inc. Folding and bagging machine. 3,448,557, 6-10-69, Cl. 53-117.

Swajger, Roger A.; and Wahl, Frank, to Western Electric Company, Incorporated. Apparatus for resistance welding spaced contact elements onto a strip of material. 3,485,994, 12-23-69, Cl. 219-103.

Swalheim, Donald A.; and Mackey, Robert W., to Du Pont de Nemours, E. I., and Company. Process for plating metals. 3,445,351, 5-20-69, Cl. 204-37.

Swalheim, Donald A.; and Mackey, Robert W., to Du Pont de Nemours, E. I., and Company. Process for producing tin plate of high corrosion resistance. 3,468,769, 9-23-69, Cl. 204-37.

Swalheim, Donald Arthur: *See*—
Hause, Norman L.; and Swalheim, Donald Arthur,3,453,186.

Swallow, Douglas M., to Southwestern Engineering Company. Means for improving performance of separator screens. 3,425,554, 2-4-69, Cl. 209-323.

Swallow, Douglas M., to Southwestern Engineering Company. Vibratory separator. 3,476,245, 11-4-69, Cl. 209-254.

Swallow, Robert E.; and Miller, Jerry R., to United States of America, Navy. Sequencing switch. 3,420,175, 1-7-69, Cl. 102-70.2

Swallow, Robert E.: *See*—
Froehner, Warren P.; Swallow, Robert E.; and Huffman, Delbert W.,3,450,155.

Swaluw, Harry Leman, to North American Philips Company, Inc. Plural channel delay line circuit for processing a PAL color television signal. 3,433,980, 3-18-69, Cl. 307-293.

Swamer, Frederic Wurl, to Du Pont de Nemours, E. I., and Company. Hydrogenation process. 3,468,964, 9-23-69, Cl. 260-633.

Swan, Curtis L. Clamp for assembling radiators. 3,429,567, 2-25-69, Cl. 269-156.

Swan, John Melvin; and Gregory, Jocelyn Margaret, to Imperial Chemical Industries of Australia and New Zealand Limited, and Commonwealth Scientific and Industrial Research Organization. Organic phosphorus compounds. 3,445,484, 5-20-69, Cl. 260-349.

Swan, Merrill L., to United Geophysical Corporation. Digital multiplier followed by a digital-to- analog converter. 3,444,360, 5-13-69, Cl. 235-156.

Swan, Merrill L., to United Geophysical Corporation. Computer for determining the correlation function of variable signals. 3,449,553, 6-10-69, Cl. 235-150.52

Swanberg, Stacy C.; and Bohlsen, Donald C. Contamination sampler. 3,430,496, 3-4-69, Cl. 73-425.

Swandon, Ronald R., to General Mills, Inc. Stripping of quaternary ammonium nitrates and process of removing the nitrate anion from aqueous solutions thereof. 3,455,816, 7-15-69, Cl. 210-21.

Swaneck, Anthony J., Jr., to Westinghouse Electric Corporation. Door gasket for French door refrigerators. 3,466,804, 9-16-69, Cl. 49-483.

Swaneck, Anthony J.; and Wilcox, Charles A., to Westinghouse Electric Corporation. Shelf construction for refrigerator door. 3,469,711, 9-30-69, Cl. 211-176.

Swaney, Casper B.: *See*—
Touw, Theodore R.; Swaney, Casper B.; and Atwood, Bruce C.,3,453,727.

Swaney, Larry R., to PPG Industries, Inc. Preparation of submicron titanium carbide. 3,485,586, 12-23-69, Cl. 23-208.

Swanick , Brian Herbert: *See*—
Hartley, David; Swanick , Brian Herbert; and Pate , Orran Terence,3,444,527.

Swank, Roy L. Method and apparatus for treating blood preliminary to its use in transfusions. 3,448,041, 6-3-69, Cl. 210-23.

Swanke, Roy L.: *See*—
Dugan, William F.; and Swanke, Roy L.,3,447,000.

Swanke, Roy L., to Dynamics Corporation of America. Multi-speed control system for electric motors. 3,422,330, 1-14-69, Cl. 318-305.

Swanke, Roy L.; and Raymond, Gordon H., to Dynamics Corporation of America. Removable blade construction. 3,421,742, 1-14-69, Cl. 259-108.

Swann, Ferris: *See*—
Willis, Robin Burke; Beattie, David Lloyd George; and Swann, Ferris,3,481,118.

Swann, Peter R.: *See*—
Bhatt, Harshad J.; and Swann, Peter R.,3,446,333.

Swann, Richard Charles George: *See*—
Sterling, Henley Frank; and Swann, Richard Charles George,3,485,666.

Swanno, Joel E., to Tektronix Inc. Latching device. 3,479,075, 11-18-69, Cl. 292-19.

Swanquist, Wesley William; and Weber, Wesley A., to All-Steel Equipment, Inc. Electrical box mounting clip for dry wall construction. 3,448,884, 6-10-69, Cl. 220-3.9

Swanquist, Wesley W., to All-Steel Equipment Inc. Electrical box mounting clip. 3,474,994, 10-28-69, Cl. 248-205.

Swanquist, Wesley W.; and Weber, Wesley A., to All-Steel Equipment, Inc. Electrical box mounting clip. 3,448,952, 6-10-69, Cl. 248-27.

Swanson, Alfred B., to Dow Corning Corporation. Surgically implantable prosthetic joint. 3,462,765, 8-26-69, Cl. 3-1.

Swanson, Arthur A., to General Electric Company. Apparatus and method for manufacturing tube assemblies for heat exchange devices. 3,421,199, 1-14-69, Cl. 29-157.3
Swanson, Carl Elof. Convertible charcoal and wood burning grill. 3,459,171, 8-5-69, Cl. 126-25.
Swanson, Charles E.: *See—*
Dokos, Sophocles J.; Wickenberg, Chester H.; Swanson, Charles E.; and Gasparaitis, Bernardas,3,472,154.
Swanson, Clifford D. Joint structure for dry wall building panels. 3,444,657, 5-20-69, Cl. 52-288.
Swanson, Donald H., to United States of America, Atomic Energy Commission. Separation of actinium and thorium from uranium and its daughters. 3,434,809, 3-25-69, Cl. 23-338.
Swanson, Emery Carlton: *See—*
Swanson, Emery Carlton; Henderson, Robert John; and Kyle, Robert Carlton, 3,487,064.
Swanson, Emery Carlton; Henderson, Robert John; and Kyle, Robert Carlton, to Swanson, Emery Carlton. Process for recovery of protein from whey using a cross-linked dextran gel. 3,487,064, 12-30-69, Cl. 260-112.
Swanson, Emil B.: *See—*
Spofford, Jordan F.; and Swanson, Emil B.,3,460,126.
Swanson, Floyd R., Jr.: *See—*
Strang, Elmer J.; and Swanson, Floyd R., Jr.,3,439,399.
Swanson, George W., to High Voltage Engineering Corporation. Cooling apparatus with laminar flow for electron permeable windows. 3,486,060, 12-23-69, Cl. 313-74.
Swanson, Gunnar E., to Nielsen Hardware Corporation, The. Catch for a packing case or the like. 3,428,348, 2-18-69, Cl. 292-113.
Swanson, Hilmer I., to Gates Radio Company. Pulse duration modulator having trigger circuit utilizing a modified triangular waveform. 3,440,566, 4-22-69, Cl. 332-9.
Swanson, Howard E.: *See—*
Perkins, Gordon O.; and Swanson, Howard E.,3,478,185.
Perkins, Gordon O.; and Swanson, Howard E.,3,484,570.
Swanson, James P., to Twin Disc, Incorporated. Missed engagement control. 3,460,656, 8-12-69, Cl. 192-48.5
Swanson, John L.: *See—*
Tonkin, Kenneth J.; Swanson, John L.; and Jeschke, Richard R.,3,431,841.
Swanson, Kenneth B., to Midland-Ross Corporation. Pressure sensitive metering valve. 3,453,029, 7-1-69, Cl. 303-6.
Swanson, Kermit E., to Donnelley, R. R., & Sons Company. Rotary feeder for gathering machines. 3,466,030, 9-9-69, Cl. 271-71.
Swanson, Morris A.: *See—*
Brouwers, Alexander P.; McCulla, Walter J.; and Swanson, Morris A.,3,464,233.
Swanson, Norman; Kirk, Richard O.; and Woodward, George E., to Dow Chemical Company, The. Recovery of α-aminocarboxylic acids from sodium chloride solutions. 3,433,832, 3-18-69, Cl. 260-534.
Swanson, Oscar Alfred. Latch-combined tension hook and clamp jaw - Mechanism. 3,425,727, 2-4-69, Cl. 292-110.
Swanson, Ralph G., to Du Pont de Nemours, E. I., and Company. Electrocoating process wherein the initial amperage surge is controlled. 3,471,389, 10-7-69, Cl. 204-181.
Swanson, Reinold E., to Davol Rubber Company. Metering device for flexible tubes. 3,429,549, 2-25-69, Cl. 251-4.
Swanson, Richard C. Portable fluorescent lamp. 3,435,206, 3-25-69, Cl. 240-11.4
Swanson, Richard H.: *See—*
Bender, Erwin L.; and Swanson, Richard H.,3,479,971.
Swanson, Richard M.: *See—*
Hayes, Richard L.; Molloy, Peter E.; and Swanson, Richard M.,3,458,662.
Swanson, Richard T.: *See—*
Jazbutis, Anatolijus; and Swanson, Richard T.,3,478,442.
Swanson, Richard T., to Aetna Casualty and Surety Company, mesne. Automotive vehicle simulator for demonstrating automatic self-centering of steerable automobile wheels. 3,479,750, 11-25-69, Cl. 35-11.
Swanson, Rolf G., to Torit Manufacturing Company. Dental evacuator. 3,457,645, 7-29-69, Cl. 32-33.
Swanson, Ronald R., to General Mills, Inc. Extraction of copper from acidic liquors with a phenolic oxime. 3,428,449, 2-18-69, Cl. 75-117.
Swanson, Ronald R., to General Mills, Inc.Recovery of pentavalent vanadium values from aqueous solutions using α-hydroxy oximes. 3,443,887, 5-13-69, Cl. 23-22.
Swanson, Ronald R., to General Mills, Inc.Recovery of molybdenum values from aqueous solutions using α-hydroxy oximes. 3,449,066, 6-10-69, Cl. 23-22.
Swanson, Ronald R., to General Mills, Inc. Extraction of tetravelent vanadium values from their aqueous solutions using hydroxamic acids. 3,464,784, 9-2-69, Cl. 23-22.
Swanson, Sven V., to Clark Equipment Company. Means and method for controlling a refrigeration system. 3,464,224, 9-2-69, Cl. 62-80.
Swanson, Theodore M.: *See—*
Calhoun, George H.; Bingman, William E.; and Swanson, Theodore M.,3,463,250.
Swanson, Theodore M.; Calhoun, George H.; Bingman, William E.; and Treseder, Richard S., to Shell Oil Company. Method of preventing hydrogen sulfide corrosion and embrittlement. 3,462,239, 8-19-69, Cl. 21-2.5
Swanstrom, Kenneth A.: *See—*
Ernest, Richard B.; and Swanstrom, Kenneth A.,3,465,410.
Ernest, Richard B.; and Swanstrom, Kenneth A.,3,465,803.
Ernest, Richard B.; Swanstrom, Kenneth A.; and Davenport, Richard M.,3,452,418.
Swantner, John P. Silicon control rectifier gate firing circuit. 3,427,476, 2-11-69, Cl. 307-252.
Swanwarp Machines Limited: *See—*
Bolton, Wilfred, 3,451,231.
Swara, Martin L. Lightweight and disposable bag carrier. 3,471,163, 10-7-69, Cl. 280-47.26
Swarbrick, Justin Henry, to Molins Machine Company Limited. Gripping means for a machine tool. 3,452,996, 7-1-69, Cl. 279-4.
Swartout, Willson C. Male/female electrical adaptor. 3,439,308, 4-15-69, Cl. 339-14.
Swartz, Donald E., to Union Carbide Corporation. Shunt regulator battery charger. 3,440,515, 4-22-69, Cl. 320-24.
Swartz, Elmer L., to United States of America, Army. Self-biased pure fluid amplifier. 3,442,279, 5-6-69, Cl. 137-81.5
Swartz, Elmer L., to United States of America, Army. Pressure and temperature insensitive flueric oscillator. 3,474,805, 10-28-69, Cl. 137-1.
Swartz, George Allan, to RCA Corporation. Grooved bulk semiconductor oscillator. 3,453,560, 7-1-69, Cl. 331-107.
Swartz, Herbert M., to Thomas Textile Co., Inc. Garment pressing apparatus and method. 3,433,396, 3-18-69, Cl. 223-73.
Swartz, Horace M.: *See—*
Suman, Robert W.; Stoddart, William D.; and Swartz, Horace M.,3,478,699.
Swartz, William E., to Calgon Corporation. Sausage making apparatus. 3,429,001, 2-25-69, Cl. 17-35.
Swartz, William M. Display device. 3,478,454, 11-18-69, Cl. 40-126.
Swartz, William: *See—*
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William,3,453,128.
Hoffmann, Bernard J.; Olmsted, Lester E.; and Swartz, William,3,453,129.
Swartzbaugh, Peter T., to Owens-Illinois, Inc. Plastic container. 3,458,113, 7-29-69, Cl. 229-44.
Swartzfager, Walter: *See—*
Ross, Robert H.; Roth, Willard; Larko, Robert; and Swartzfager, Walter,3,447,790.
Swauger, Donald A., 56% to Beisser, Fred 22% to Walker, Delbert R., and 22% to Larson, Leward M. Sidewall and fender protector. 3,451,709, 6-24-69, Cl. 293-1.
Swavely, Donald F.: *See—*
Pettigrew, Carl K.; Siminski, Michael C., Jr.; and Swavely, Donald F.,3,431,887.
Swazy, Earl F.; and Kenney, James C., to Mallory, P. R., & Co., Inc. Electrical discharge machining electrode comprising tungsten particles in a silver matrix. 3,459,915, 8-5-69, Cl. 219-69.
Swearingen, Judson S. Rotary compressors and systems employing same using compressor gas as seal gas. 3,420,434, 1-7-69, Cl. 230-116.
Swearingen, Judson S. Staged isenthalpic - isentropic expansion of gas from a pressurized liquefied state to a terminal storage state. 3,433,026, 3-18-69, Cl. 62-23.
Swearingen, Judson S. Reduction of power losses in high speed bearing lubrication. 3,452,839, 7-1-69, Cl. 184-6.
Swearingen, Judson S. Shaft seal. 3,471,157, 10-7-69, Cl. 277-17.
Sweatman, Fraser, Incorporated: *See—*
Schreiber, Peter Jurgen; and Sweatman, Travers Fraser, 3,459,245.
Sweatman, Travers Fraser: *See—*
Schreiber, Peter Jurgen; and Sweatman, Travers Fraser,3,459,245.
Swebilius, Earl: *See—*
Ciaccia, Patrick J., 3,482,065.
SWECO, Inc.: *See—*
Auckland, Wayne James, 3,478,406.
Gainsboro, Nathan R.; and Weisberg, Robert A., 3,482,626.
Mc Kibben, Richard K.; and Westfall, Theodore R., 3,483,977.
McKibben, Richard K.; and Lundy, Floyd A., 3,473,660.
McKibben, Richard K., 3,477,572.
McKibben, Richard K., 3,482,359.
McKibben, Richard K.; Racine, Bill A.; and Strom, John R., 3,484,998.
Miller, John P., 3,452,868.
Talley, Walter J., Jr., 3,485,363.
Sweda, Adam D.; and Saxton, Floyd G., to Fruehauf Corporation. Folding support. 3,456,962, 7-22-69, Cl. 280-430.
Swedberg, Nils E., to Sundstrand Corporation. Fuel regulating valve. 3,446,230, 5-27-69, Cl. 137-108.
Sweden Freezer Manufacturing Co.: *See—*
Cary, James E.; and Swenson, Harvey F., 3,457,944.
Cary, James E.; and Swenson, Harvey F., 3,474,907.
Pierce, Robert W., 3,480,784.

Swenson, Harvey F., 3,458,048.
Swedenberg, Clyde Johnson. Colored flame candle. 3,424,540, 1-28-69, Cl. 431-126.
Swedish Crucible Steel Company: *See—*
Kracht, Gerhard; and Svihra, Paul M., 3,477,325.
Watson, Robert E., 3,447,169.
Watson, Robert E., 3,474,470.
Swedish, Frank, Jr.: *See—*
Raymond, Albert E.; Fraser, William J.; and Swedish, Frank, Jr.,3,436,303.
Swedish Rail System AB-S.R.S.: *See—*
Olson, Per-Erik; Lunden, Nils; and Ribbing, Sigwid, 3,442,222.
Swedlow Inc.: *See—*
Bayless, James A.; and Gruhn, Earl F., 3,420,721.
Kelber, Edward H., 3,447,267.
Swee, Eugene; and Bloom, William, to Miner Industries, Inc. Lamp for jack-o-lanterns. 3,449,560, 6-10-69, Cl. 240-16.
Sweeney, B. K., Manufacturing Co.: *See—*
Blackwell, Lyman L.; and Able, Edward T., 3,449,668.
Sweeney, Frank B. Fuel injection system. 3,432,152, 3-11-69, Cl. 261-34.
Sweeney, Frank: *See—*
Spiegel, Herbert; and Sweeney, Frank,3,423,762.
Sweeney, John A. Conveyor trolley wheel lubricator. 3,446,314, 5-27-69, Cl. 184-15.
Sweeney, John M., to Wright & Mc Gill Co. Weight and bait holder for fishhooks. 3,430,378, 3-4-69, Cl. 43-43.6
Sweeney, John M., to Wright & McGill Co. Bobbin for fishing lines having means for attachment to similar bobbins. 3,430,886, 3-4-69, Cl. 242-118.7
Sweeney, Joseph Patrick, to AMP Incorporated. Magnetic core encoding device and method. 3,484,755, 12-16-69, Cl. 340-174.
Sweeney, Joseph Patrick; and Wiley, Lawrence Grebe, to AMP Incorporated. Magnetic binary sequence detector. 3,444,532, 5-13-69, Cl. 340-174.
Sweeney, Joseph P., to AMP Incorporated. Tape mounted magnetic core assembly. 3,443,254, 5-6-69, Cl. 335-297.
Sweeney, Lewis D., to Reliable Electric Company. CATV cable takeoff. 3,486,135, 12-23-69, Cl. 333-9.
Sweeney, Richard F.: *See—*
Anello, Louis G.; and Sweeney, Richard F.,3,467,703.
Anello, Louis G.; and Sweeney, Richard F.,3,480,571.
Anello, Louis G.; Sweeney, Richard F.; and Price, Alson K.,3,471,623.
Sweeney, Richard F.; and Cunningham, William J., to Allied Chemical Corporation. 2-Chlorotetrafluoro-3-oxy-2-cyclopentene-1-ones and process for preparing them. 3,442,952, 5-6-69, Cl. 260-586.
Sweeney, Richard F.; and Liauw, Kei-Liang, to Allied Chemical Corporation. Perfluoroalkyl-substituted polyamide oil- repellency compound and textile materials treated therewith. 3,420,697, 1-7-69, Cl. 117-121.
Sweeney, Richard F.; and Liauw, Koei-Liang, to Allied Chemical Corporation. Novel fluorocarbon derivatives. 3,446,570, 5-27-69, Cl. 8-116.2
Price, Alson K.; and Sweeney, Richard F.,3,427,349.
Sweeney, William A.: *See—*
Adams, Robert T.; Levine, Irving E.; and Sweeney, William A.,3,433,846.
Sweeney, William Alan, to Chevron Research Company. Detergent compositions of sulfonated secondary phenyl-substituted n-alkanes. 3,487,023, 12-30-69, Cl. 252-161.
Sweeny, Norman P.: *See—*
Arens, Robert P.; and Sweeny, Norman P.,3,423,489.
Sweet, Albert; and Kaufman, Arnold S., to Elster's Air Conditioning. Air curtain ventilator. 3,457,850, 7-29-69, Cl. 98-115.
Sweet, Alvin H.; and Sweet, Don A. Drinking tube attachment for beverage containers. 3,445,033, 5-20-69, Cl. 220-90.2
Sweet, Corlise M. Lathe turret equipped with automatic adjusting tandem tools. 3,455,189, 7-15-69, Cl. 82-1.
Sweet, Don A.: *See—*
Sweet, Alvin H.; and Sweet, Don A.,3,445,033.
Sweet, George E.; Anderson, William W., Jr.; and Miller, Howard B., to United States of America, National Aeronautics and Space Administration. Compensating radiometer. 3,433,953, 3-18-69, Cl. 250-83.
Sweet, Glen W., deceased0 (by Sweet, Virginia L.; administratrix). Regulating wheel for centerless grinder. 3,460,293, 8-12-69, Cl. 51-103.
Sweet, John R., III: *See—*
Marsh, Benjamin H.; and Sweet, John R., III,3,458,674.
Sweet, Ralph W. Adjustable stabilizing disc assembly for disc cultivators and the like. 3,477,516, 11-11-69, Cl. 172-184.
Sweet, Richard C.: *See—*
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C.,3,432,913.
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C.,3,464,725.
Sweet, Richard G.: *See—*
Lloyd, William A.; and Sweet, Richard G.,3,454,953.
Sweet, Virginia L.: *See—*
Sweet, Glen W.,3,460,293.
Sweet, William N.: *See—*
Wright, Robert L., Jr.; and Sweet, William N.,3,469,100.
Sweetheart Plastics, Inc.: *See—*
Davis, Paul; and McDonald, Joseph N., 3,437,253.
Davis, Paul, 3,484,018.
Sweetland, William E.: *See—*
Manning, Arnold J., 3,428,321.
Sweetman, William G., to United States of America, Navy. Burster-igniter device. 3,482,518, 12-9-69. Cl. 102-70.
Sweeton, Gerard F.: *See—*
Glass, Abraham; and Sweeton, Gerard F.,3,467,064.
Sweigert, Ernest C.: *See—*
Kern, Richard J.; and Sweigert, Ernest C.,3,486,335.
Sweigert, George H., to Shafer, John H. Duplex radio communication and signaling apparatus for portable telephone extension. 3,449,750, 6-10-69, Cl. 343-177.
Swendson, David L.: *See—*
Dennis, Daniel L.; and Swendson, David L.,3,448,741.
Swengel, Robert Charles, Sr., to AMP Incorporated. Module systems. 3,469,448, 9-30-69, Cl. 73-356.
Swenson, Alfred G., to General Electric Company. Steam iron valve structure. 3,474,552, 10-28-69, Cl. 38-77.
Swenson Corporation: *See—*
Swenson, Richard F., 3,445,143.
Swenson, Emil S.; and Koski, William L. Method for maintaining organs in a completely viable state. 3,468,136, 9-23-69, Cl. 62-64.
Swenson, Harvey F.: *See—*
Cary, James E.; and Swenson, Harvey F.,3,457,944.
Cary, James E.; and Swenson, Harvey F.,3,474,907.
Swenson, Harvey F., to Sweden Freezer Manufacturing Co. Dialyzer. 3,458,048, 7-29-69, Cl. 210-321.
Swenson, Henry F. Hydraulic center and driver. 3,484,809, 12-16-69, Cl. 82-40.
Swenson, John, Granite Co., Inc., The: *See—*
Garrison, Langdon I., 3,476,912.
Swenson, Lester A. Knockdown furniture. 3,427,669, 2-18-69, Cl. 5-93.
Swenson, Lowell T.; and Skime, Roger H., to Arctic Enterprises, Inc. Snowmobile tread drive and suspension system. 3,485,312, 12-23-69, Cl. 180-5.
Swenson, Oscar W., to Western Union Telegraph Company, The. Multi-stylus assembly. 3,465,960, 9-9-69, Cl. 235-61.11
Swenson, Richard A. Spacer for reinforcing mesh for concrete pipe and the like. 3,471,986, 10-14-69, Cl. 52-652.
Swenson, Richard F., to Swenson Corporation. Adjustable slide support. 3,445,143, 5-20-69, Cl. 308-3.
Swenson, Robert A., to Cargill, Incorporated. Tertiary α-alkoxypropylamine oxides. 3,449,431, 6-10-69, Cl. 260-584.
Swenson, Robert A., to Cargill, Incorporated. Polyoxyolefin adducts of γ-alkoxypropylamines. 3,456,012, 7-15-69, Cl. 260-584.
Swenson, Robert A.; and Smith, Roscoe S., to Cargill Incorporated. Stabilized polyoxyethylene adducts of alkyl- amines and method for the manufacture thereof. 3,428,683, 2-18-69, Cl. 260-584.
Swenson Spreader & Mfg. Co.,: *See—*
Fyrk, Clas O. F., 3,429,418.
Swenson, Victor Eugene, to Deere & Company. Air cleaner. 3,442,067, 5-6-69, Cl. 55-482.
Swenson, William E. Thin stone supporting and anchoring system. 3,478,480, 11-18-69, Cl. 52-396.
Swensson, Gerald C., to Sun Shipbuilding & Dry Dock Company. Thrust bearing foundation and mounting. 3,441,326, 4-29-69, Cl. 308-161.
Swerbinsky, Leo, to General Electric Company. Icemaker with variable capacity ice storage receptacle. 3,436,928, 4-8-69, Cl. 62-137.
Swerlick, Isadore, to Du Pont de Nemours, E. I., and Company. Vinylidene choloride top-coated polypropylene packaging film. 3,459,582, 8-5-69, Cl. 117-68.
Swetnam, Norman T., to General Electric Company. Dispensing means for washing appliance. 3,421,660, 1-14-69, Cl. 222-76.
Swett, James B., to Rexall Drug and Chemical Company. Container. 3,426,935, 2-11-69, Cl. 220-42.
Swett, James B., to Dart Industries, Inc. Container for head lettuce or the like. 3,451,328, 6-24-69, Cl. 99-269.
Swett, James B.; Bateman, Robert F.; and Brown, Thomas E., to Dart Industries Inc. Multi-purpose container. 3,484,035, 12-16-69, Cl. 229-15.
Swett, James B.; and Nixon, Charles L., to Rexall Drug and Chemical Company. Closured container and method of making same. 3,476,297, 11-4-69, Cl. 222-480.
Swett, Leo Ralph; Ratajczyk, James Daniel; and Darby, Thomas Dillard, to Abbott Laboratories. Phenylcarbamoylazides in reducing blood pressure. 3,424,844, 1-28-69, Cl. 424-226.
Swett, Leo Ralph; Ratajczyk, James Daniel; and Kimura, Eugene Tatsuru, to Abbott Laboratories. Substituted 6,7-dihydro-5-H-pyrimidino thiazines. 3,476,748, 11-4-69, Cl. 260-243.
Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru, to Abbott Laboratories. Carboalkoxyphenoxy and carboalkoxyphenylmercapto- 4-nitropyrazoles. 3,424,758, 1-28-69, Cl. 260-310.

Swett, Leo Ralph; Stein, Robert George; and Kimura, Eugene Tatsuru, to Abbott Laboratories. Substituted benzoxazepines and benzothiazepines. 3,450,694, 6-17-69, Cl. 260-239.3
Swezey, Edwin W., to Union Camp Corporation. Material handling apparatus. 3,451,669, 6-24-69, Cl. 271-26.
Swezy, Montgomery C.; and Doyle, Robert L., to Western Progress Inc. Combination trailer-dolly with removable box. 3,458,212, 7-29-69, Cl. 280-43.11
Swezy, Montgomery C.: *See—*
Doyle, Robert L.; and Swezy, Montgomery C.,3,467,301.
SWF-Specialfabrik fur Autozubehor Gustav Rau G.m.b.H.: *See—*
Mutschler, Erich; and Schreiber, Franz, 3,459,913.
SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH: *See—*
Bauer, Kurt; and Kohler, Alfred, 3,433,416.
Schreiber, Franz, 3,476,896.
Swick, Clarence E.: *See—*
Swick, Dwain K.; and Swick, Clarence E.,3,449,816.
Swick, Dwain K.; and Swick, Clarence E. Method of repairing screw-in precombustion chamber type openings in cylinder heads. 3,449,816, 6-17-69, Cl. 29-402.
Swickad, James L.; and Curati, Hershel L., to Black Clawson Company, The. Pelletizing die plate. 3,461,495, 8-19-69, Cl. 18-12.
Swickard, James L., Jr., to Black Clawson Company, The. Feed apparatus for extrusion die. 3,423,566, 1-21-69, Cl. 219-201.
Swickard, James L.; and Koppehele, Paul H., to Black Clawson Company, The. Apparatus for producing dry plastic pellets. 3,477,098, 11-11-69, Cl. 18-12.
Swider, Irvin F.: *See—*
Batur, Eugene H., 3,444,545.
Swiderski, Edward, to Wheelock Signals, Inc. Arc depressing means for sealed relay. 3,444,492, 5-13-69, Cl. 335-201.
Swift & Company: *See—*
Baeuerlen, Robert J.; and Findley, Thomas W., 3,442,659.
Bildusas, Vytautas E., 3,475,268.
Bonami, Ernest, 3,451,099.
Bonami, Ernest, 3,470,580.
Bonami, Ernest A., 3,461,640.
Clemens, Ogden A.; Schreuder, Thomas R.; and Panek, Mitchell W., 3,481,746.
Cornwell, Edmund H.; and Foster, Herbert G., Jr., 3,482,999.
Francis, Ray D., 3,476,198.
Giella, Mario; and Petralia, Raymond Rosario, 3,444,625.
Hoersch, Theodore M., 3,479,688.
Johnson, Keith L., 3,442,805.
Johnson, Keith Liddell, 3,442,818.
Kearns, Tommy Carter, 3,464,808.
Laden, Max H.; and Shenfeld, Richard, 3,429,828.
Richardson, Gary H.; and Cornwell, Edmund H., 3,482,507.
Sanders, Marion D.; and Kealy, Joseph P., 3,457,061.
Schack, Warren R.; and Miller, Jack M., 3,476,574.
Schiltz, Lee R.; and Rogers, Russell H., 3,424,546.
Shank, Joseph L., 3,442,660.
Sims, Rex J., 3,453,252.
Urbain, Walter M.; Shank, Joseph L.; and Kauffman, Floyd L., 3,483,005.
Young, Harland H., 3,424,648.
Young, Harland H., 3,429,672.
Young, Harland H., 3,429,768.
Young, Harland H.; Warner, William D.; and McAnelly, John K., 3,442,764.
Young, Harland H., 3,453,222.
Swift, Edgar A., to Owens-Illinois, Inc. Bulk carrier. 3,433,401, 3-18-69, Cl. 229-15.
Swift, Eric Owen: *See—*
Stubbs, Dennis; Swift, Eric Owen; and Carroll, Eric,3,486,360.
Swift, George W.; and Kurata, Fred, to Kansas University Endowment Association, The. Helium purification employing propane scrubbing. 3,455,116, 7-15-69, Cl. 62-17.
Swift, Gilbert, to Dresser Industries, Inc. Apparatus for testing road surfaces and method. 3,459,038, 8-5-69, Cl. 73-146.
Swift, Gilbert, to Dresser Industries, Inc. Apparatus for determining deflections of a structure. 3,481,183, 12-2-69, Cl. 73-67.1
Swift, Gilbert; Carpenter, Alton D.; and Smith, David M., to Dresser Industries, Inc. Dynamic deflection determination device. 3,427,877, 2-18-69, Cl. 73-146.
Swift, Harold E.: *See—*
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,441,631.
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,444,263.
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,444,264.
Fernald, Herbert B.; Gall, William; and Swift, Harold E.,3,478,124.
Swift, Harvey C., to Kelsey-Hayes Company. Disk brake support and guide means therefor. 3,424,274, 1-28-69, Cl. 188-73.
Swift, Harvey C., to Kelsey-Hayes Company. Disk brake assembly and pivotal support means therefor. 3,433,328, 3-18-69, Cl. 188-73.
Swift, Harvey C., to Kelsey-Hayes Company. Adjusting means for disk brakes. 3,433,333, 3-18-69, Cl. 188-196.
Swift Instruments Inc.: *See—*
Fitzgibbons, Robert C., 3,451,739.
Swift, Joseph P.: *See—*
Howe, Frank D.; Swift, Joseph P.; and Groves, Allen D.,3,442,183.
Swift, Michael W., to General Motors Corporation. Method of forming a continuous elongated passageway through metal. 3,436,516, 4-1-69, Cl. 219-121.
Swift, Paul C., to Yardney Enterprises, Inc. Orthopedic appliance. 3,434,469, 3-25-69, Cl. 128-78.
Swift, Paul F.: *See—*
Seil, Kenneth F.; and Swift, Paul F.,3,437,806.
Swift, Paul P.: *See—*
Zingg, Warren M.; and Swift, Paul P.,3,457,431.
Swift, Peter; and Wells, Alfred J., to Dust Control Equipment Limited. Gas filtering apparatus. 3,421,295, 1-14-69, Cl. 55-302.
Swift, Richard L.: *See—*
Simpson, Donald A.; and Swift, Richard L.,3,477,759.
Swift, Willard Everett, to Foxboro Company, The. Barometric compensation for gauging apparatus. 3,435,221, 3-25-69, Cl. 250-83.3
Swigar, Andrew A.; and Walde, Robert A., to Air Products and Chemicals, Inc. Metal chelates of bicyclononanedione. 3,429,906, 2-25-69, Cl. 260-435.
Swigar, Andrew A.: *See—*
Flinn, Richard A.; Sobell, Richard S.; Swigar, Andrew A.; and Walde, Robert A.,3,425,844.
Swigert, James L. Bearing seal construction. 3,470,655, 10-7-69, Cl. 51-168.
Swigert, Jay Kirk; and Lane, Richard L., to Xerox Corporation. Imagine process. 3,460,476, 8-12-69, Cl. 101-450.
Swiggard, Edward M.: *See—*
Shenker, Henry; Moore, William J.; and Swiggard, Edward M.,3,457,409.
Swillinger, Francis L., to Libbey-Owens-Ford Glass Company. Apparatus for minimizing open bottom blisters on float glass. 3,428,444, 2-18-69, Cl. 65-182.
Swimmer, Ernest J.; and Hicks, Alan A. Toy paste-strip forming device for peanuts and the like. 3,431,957, 3-11-69, Cl. 146-182.
Swimmer, James A.: *See—*
Coleman, George; and Swimmer, James A.,3,472,496.
Swimquip, Inc.: *See—*
Baker, William O., 3,471,091.
Prizler, Paul D., 3,471,021.
Swindall, John L., to Pegg, Samuel, & Son Limited. Control system for selective treatment of garments. 3,468,539, 9-23-69, Cl. 223-76.
Swindell-Dressler Company: *See—*
Webb, Joseph Leroy, 3,460,549.
S. W. Industries, Inc.: *See—*
Greene, William E., 3,447,600.
Mitchell, Paul J., Jr., 3,445,906.
Swinehart, Merle R.; and Richter, Walther, to Cutler-Hammer, Inc. Condition responsive proportional control systems. 3,475,677, 10-28-69, Cl. 323-21.
Swing Co., Inc.: *See—*
Steele, Chester R., 3,460,695.
Swing, Richard E.; and Marsten, Joseph A., to United States of America, Army. Crossed diffraction grating. 3,484,154, 12-16-69, Cl. 350-162.
Swingline Inc.: *See—*
Bader, Izaak Walton, 3,485,354.
Lensky, Albert, 3,477,095.
Swingspout Measure Co.: *See—*
Nicola, William H., 3,464,591.
Swinney, Alvis C. Tapered bearing swivel. 3,434,742, 3-25-69, Cl. 285-16.
Swinney, Louis E., to Swinney-Ferreira Gyrodynamics, Inc., mesne. Monorail system. 3,461,811, 8-19-69, Cl. 104-118.
Swinney-Ferreira Gyrodynamics, Inc.: *See—*
Swinney, Louis E., 3,461,811.
Swinyar, Theodore C. Envelope flap deflecting apparatus. 3,474,711, 10-28-69, Cl. 93-61.
Swirsky, Gordon L. Photograph device. 3,460,282, 8-12-69, Cl. 40-102.
Swisher, George W., Jr.; Spivey, Gordon L.; and Petersik, Adolph R., to Construction Machinery, Inc. Road construction methods and apparatus. 3,423,859, 1-28-69, Cl. 37-108.
Swisher, Horton E., to Sunkist Growers, Inc. Process for the detection of citrus fruit injuries. 3,453,117, 7-1-69, Cl. 99-100.
Swisher, Joe A.; and Coates, Arthur D., to United States of America, Army. Method for measuring doses of ionizing radiations. 3,475,607, 10-28-69, Cl. 250-83.3
Swisher, Stanley A.: *See—*
Ford, Bruce; and Swisher, Stanley A.,3,421,184.
Swiss Aluminium Ltd.: *See—*
Altenpohl, Dietrich; and Gyongyos, Ivan, 3,426,836.
Bichsel, Heinz F., 3,444,022.
Bloeck, Siegfried, 3,473,971.

Capaul, Alfons, 3,425,482.
de la Breteque, Pierre, 3,457,032.
Dirilgen, Necdet, 3,429,602.
Erben, Dietrich, 3,483,374.
Fricker, Karl, 3,453,199.
Gyongyos, Ivan; and Kotthaus, Helmut, 3,428,111.
Gyongyos, Ivan, 3,431,971.
Mier, Gerhard, 3,421,710.
Neri, Amleto; and Capitanio, Lorenzo, 3,474,127.
Schmitt, Johannes; and Schaper, Hans, 3,434,945.
Zweifel, Walter; Schneeberger, Fritz; and Marquetant, Alfred, 3,425,918.

Swiss Controls & Research, Inc.: *See*—
Keller, Adam L., 3,421,107.
Keller, Adam L., 3,421,108.

Swiss Serum and Baccine Institute: *See*—
Suter, Hans; and Zutter, Hans, 3,485,834.

Switchcraft, Inc.: *See*—
Bailey, James R.; and Bokosky, Robert J., 3,422,426.
Bailey, James R.; and Lavigne, Vernon W., 3,433,906.
Bailey, James R.; and Lutzenberger, Kurt, 3,435,163.
Bailey, James R.; and Bokosky, Robert J., 3,446,467.
Bailey, James R.; and Lutzenberger, Kurt, 3,485,966.

Switches, Incorporated: *See*—
Luetzow, Edwin J., 3,443,053.
Wolf, Walter A.; and Corn, Prentice R., 3,485,974.

Switek, Henryk: *See*—
Pazola, Zdzislaw; Switek, Henryk; Janicki, Jozef; and Michnikowska, Wanda,3,476,646.

Switlik Parachute Company, Inc.: *See*—
Switlik, Richard, 3,433,342.

Switlik, Richard, to Switlik Parachute Company, Inc. Inflatable evacuation slide. 3,433,342, 3-18-69, Cl. 193-25.

Switzer, Don R.: *See*—
Phillips, Clayton L., 3,461,961.

Switzer, Ronald E.: *See*—
Foreman, Ralph S.; Switzer, Ronald E.; Spiller, Kenneth J.; and Allan, Donald R.,3,427,433.

Switzer, William E., 1/4 each to Owen, Robert G., McKinney, William J., and Boatman, Joe R. Air flow responsive switch for air conditioned automobiles. 3,445,614, 5-20-69, Cl. 200-81.9

Swonger, Kenneth D.: *See*—
Johnson, James E.; Priest, Clifford G.; Lackey, Gerald F.; and Swonger, Kenneth D.,3,472,455.

Swope, Charles Hermas; Snitzer, Elias; and Koester, Charles J., to American Optical Corporation, mesne. Optical junction for light conductors. 3,453,036, 7-1-69, Cl. 350-96.

Swope, David L.: *See*—
Dooley, Kerry A.; Rockhill, William E.; Swope, David L.; Thomas, Earl F.; and van Fossen, Ralph H., Jr.,3,467,877.

Swope, Lenora, Inc.: *See*—
Clegg, Jesse M., 3,426,755.

Swope, Robert S.: *See*—
Carter, Thomas A., 3,487,241.

Swords, Frank J., to Veeder Industries, Inc. Duplicating machine accounting system. 3,427,441, 2-11-69, Cl. 235-92.

Sworski, Thomas J.: *See*—
Jones, Francis T.; and Sworski, Thomas J.,3,434,949.

Swyler, Karl J., to Xerox Corporation. Transversely reciprocating fluidized bed development method. 3,484,265, 12-16-69, Cl. 117-17.5

Sybron Corporation: *See*—
Bailey, Sidney W.; and Montgomery, John R., 3,462,096.
Bense, Roger; and Lauterbach, Norman E., 3,458,275.
Billin, Arthur Gilbert, 3,471,928.
Castle, Richard D., 3,443,883.
Ernst, Robert R., 3,477,807.
Goode, Godfrey P., 3,457,925.
Greer, Albert H., 3,459,672.
Gutzmer, Alfred N.; and Willett, David A., 3,483,393.
Hallenbeck, Bennett L., 3,441,852.
Hogan, William J., 3,482,094.
Jaquith, Howard R.; and Norton, Stanley G., Jr., 3,433,239.
Jaquith, Howard R.; McCarthy, James L.; Nichols, Nathaniel B.; and Norton, Stanley C., Jr., 3,480,854.
Lamboy, James P.; and McDonald, Robert L., 3,454,352.
Lauterbach, Norman E., 3,454,189.
Little, John R.; and Sanford, Elbert A., 3,458,344.
Little, John R.; and Sanford, Elbert A., 3,463,646.
Valeska, John J.; Spencer, Donald N.; and Kummer, Edson L., 3,461,561.

Sych, Georg M.: *See*—
Muller, Klaus R. A.; Sych, Georg M.; and Zimmerman, Heinz,3,441,540.

Sykens, William Frederick: *See*—
Pounder, Alan; and Sykens, William Frederick,3,467,701.

Sykes, Bernard P.: *See*—
Smith, Holley R.; and Sykes, Bernard P.,3,445,295.

Sykes, Clarke C., to Schaeffer, F. & M., Brewing Co., The. Washing apparatus for washing the filter cloths in a filter press. 3,486,624, 12-30-69, Cl. 210-225.

Sykes, James A.: *See*—
Godfrey, John J.; Sykes, James A.; Harper, James L.; and Morgan, Charles R.,3,463,811.

Sykes, Jessie T.: *See*—
Sykes, Richard W.; Sykes, Jessie T.; and Toce, Charles A.,3,457,803.

Sykes, Neville B.; and Holland, Lawrence, to Multilastic Limited. Method of and apparatus for dividing lengths of spring unit for use in mattresses and the like. 3,472,290, 10-14-69, Cl. 140-3.

Sykes, Richard W.; Sykes, Jessie T.; and Toce, Charles A. Extendible bicycle pedal incorporating improved gripping apparatus. 3,457,803, 7-29-69, Cl. 74-594.7

Sylla,Willi, to Schutte,Alfred H. Machine tool. 3,453,913, 7-8-69, Cl. 82-28.

Sylvan, Stig G., to American Air Filter Company, Inc. Turbine driven compressor arrangement. 3,425,238, 2-4-69, Cl. 62-507.

Sylvan, Tage Peter: *See*—
Hildebrandt, Herbert John; and Sylvan, Tage Peter,3,450,153.

Sylvan, Tage P., to General Electric Company. Analogue unijunction device. 3,439,237, 4-15-69, Cl. 317-235.

Sylvan, Tage P., to General Electric Company. Transistor differential operational amplifier. 3,482,177, 12-2-69, Cl. 330-30.

Sylvania Electric Products, Inc.: *See*—
Allen, James S.; and Hirshfield, Edward, 3,435,346.
Anderson, Lester F.; Parsons, George W.; and Petts, Ronald G., 3,430,038.
Andre, Stephen N.; Hettich, Ronald D.; and Megargel, Leland R., 3,434,142.
Arnold, Charles E., 3,432,852.
Ashley, Albert H., 3,473,149.
Baker, Allen G.; and Dale, Brian, 3,421,204.
Baker, Allen G.; and Ingraham, Robert C., 3,421,206.
Baker, Allen G.; and Ingraham, Robert C., 3,421,985.
Baker, Allen G.; and Dale, Brian, 3,456,334.
Baker, Allen G., 3,482,977.
Bargainnier, Roger B.; Scheithauer, William, Jr.; and Shaffer, Glenn A., 3,447,230.
Barry, Robert J., 3,461,324.
Bartnik, John C.; and Moss, Ellsworth R., 3,434,070.
Benda, David, 3,432,712.
Bennett, Donald R., 3,441,874.
Benson, Martin Rudolph; and Burwell, Anson Clark, Jr., 3,440,472.
Biernson, George A., 3,422,273.
Biernson, George A.; and Kinsley, David J., 3,465,094.
Blair, Chester C., Jr.; and Smith, Richard E., 3,470,413.
Blair, David J.; and Herold, Carl D., Jr., 3,435,344.
Blitz, Melvin H.; Brown, Donald W.; and Black, Guy, 3,460,270.
Bohn, Richard E.; and Patel, Pravin B., 3,473,047.
Brenner, Kurt H., Jr., 3,439,215.
Brenner, Kurt H., Jr.; and Drake, Oscar Abram, 3,439,216.
Brooks, David N.; and Harris, Joseph M., 3,445,646.
Burdick, Glen A., 3,453,472.
Burney, Charles F., 3,476,947.
Campbell, Victor H., 3,479,449.
Chagnon, Paul L., 3,464,105.
Chao, Stanley K.; and Kearns, James E., 3,451,144.
Chenot, Charles F., 3,431,215.
Chenot, Charles F., 3,431,216.
Chenot, Charles F., 3,448,056.
Chiola, Vincent; and Vanderpool, Clarence D., 3,425,794.
Chiola, Vincent; and Vanderpool, Clarence D., 3,428,415.
Chiola, Vincent; Dodds, Robert E.; and Vanderpool, Clarence D., 3,440,732.
Chiola, Vincent; and Lawrence, Jerome G., 3,446,575.
Chiola, Vincent; and Vanderpool, Clarence D., 3,446,577.
Clites, Roy J.; and Pflueger, Phillip G., 3,454,904.
Cluett, Ronald D.; and Paget, Fredrick W., 3,482,142.
Cohler, Edmund U., 3,451,046.
Cohler, Edmund U.; and Rubinstein, Harvey, 3,453,607.
Cohler, Edmund U.; and Rubinstein, Harvey, 3,465,305.
Collins, Floyd K., 3,463,500.
Coviello, Gino J., 3,478,268.
Crellin, Peter Lewis, 3,466,492.
Crellin, Peter Lewis, 3,476,953.
Dale, Brian, 3,450,959.
Dapolito, Joseph J.; and Te Grootenhuis, William D., 3,440,077.
De Marinis, Joseph V.; and Scott, Benton B., 3,450,834.
Drake, Oscar A., 3,427,644.
Drees, Joseph M., 3,484,641.
Droppa, Cyril, 3,428,844.
Eckenbrecht, Robert R., 3,436,485.
Eckenbrecht, Robert R.; and Hickok, William K., 3,456,070.
Eckenbrecht, Robert Roy; and Rhee, Dong W., 3,445,717.
Elmer, William B., 3,423,582.
Evans, Lyle W., 3,481,733.
Evans, Wayne; Marcucci, Rudolph; and Gates, Paul, 3,466,488.
Faria, Sixdeniel; and Mehalchick, Emil J., 3,480,819.
Fisher, Mahlon B., 3,431,420.
Fjerstad, Roger L., 3,443,247.

Fralick, Stanley C.; Knox-Seith, John K.; and Wilson, Dennis L., 3,484,746.
Freese, Robert W., Jr., 3,443,144.
Gallaro, Anthony V.; and Van Noy, Bryce W., 3,439,208.
Gallaro, Anthony V.; and Mc Kernan, William R., 3,463,686.
Gannoe, Thomas Earl, 3,462,350.
Gantt, Robert Dwight; and Wheeler, Robert Charles, 3,463,881.
Gartner, Stanley J., 3,463,329.
Gartner, Stanley J.; Regec, John J.; and Smith, James M., 3,465,867.
Gartner, Stanley Jacob; and Roeber, Henry William, 3,452,425.
Glovatsky, Andrew; Shinal, Joseph B.; and Slobbe, Walter W., 3,440,081.
Glovatsky, Andrew; and Shinal, Joseph B., 3,483,010.
Gray, Stephen B., 3,422,251.
Gray, Stephen B., 3,422,306.
Gray, Stephen B.; and Pick, George G., 3,456,127.
Griffin, Robert M., 3,478,300.
Gump, J. R., 3,482,932.
Gungle, Warren C.; Peterson, Carl L.; and Waymouth, John F., 3,424,935.
Hagadorn, Marold Weston; and Johnston, Bruce R., 3,431,615.
Hagadorn, Marold Weston; and Kerstetter, Donald R., 3,431,631.
Halus, Michael N., 3,484,663.
Harris, Stephen E.; and Targ, Russell, 3,444,479.
Haselton, Ernest F., Jr., 3,435,417.
Haselton, Ernest F., Jr., 3,456,084.
Haumesser, Robert L.; and Meyer, John A., 3,454,743.
Heath, Walter S.; and Megargel, Leland R., 3,434,077.
Hedler, Robert A.; and Ryan, Winslow E., 3,447,682.
Hedler, Robert A.; Larson, John Frederick; and Regenbrecht, Albert, Jr., 3,474,040.
Heisrath, Horst O., 3,473,625.
Hickok, William Kelsey, 3,483,316.
Hileman, Ronald E.; and Oxley, Vincent C., 3,435,141.
Howard, James A.; and Lucas, Raymond D., 3,427,523.
Jackman, Claude A.; and Turner, Elbert L., 3,434,057.
James, Robert E.; and Keeney, Clare G., 3,436,554.
Jayne, Max L., 3,432,795.
Jenkins, Carlton Gene; Stoldt, Clayton Lewis; and Szeverenyi, Nikolaus A., 3,481,607.
Johannessen, Paul R., 3,422,355.
Johannessen, Paul R., 3,486,043.
Johnson, Brant T., 3,444,472.
Kam, George H.; and Rubin, Michael, 3,428,909.
Kardash, John J., 3,440,412.
Kardash, John J., 3,473,051.
Kardash, John J., 3,473,053.
Kautz, George R., 3,468,005.
Kepner, Theodore S., 3,476,946.
Kerstetter, Donald R., 3,432,900.
Kerstetter, Donald R., 3,441,767.
Kerstetter, Donald R., 3,445,211.
Kerstetter, Donald Russel, 3,447,017.
Kopelman, Bernard; and Shimer, Robert M., 3,431,540.
Lagermasini, Joseph P.; Lounis, Robert R.; Roberts, Glenn H.; and Tiala, Lauri D., 3,446,408.
Lavallee, Lawrence R., 3,465,170.
Lerch, Clark Mnroe; and Schwender, Leonard Dillon, 3,452,426.
Levin, Robert E.; and Lemons, Thomas M., 3,428,800.
Levin, Robert E., 3,484,161.
Mackey, Donald G.; and Rychlewski, Thaddeus V., 3,457,362.
Magill, Malcolm E.; and Slobbe, Walter Wentworth, 3,473,942.
Mann, George B.; and Tonner, Richard C., 3,473,124.
Mansfield, William Thomas, 3,464,054.
Massey, Gail A., 3,432,770.
Massey, Gail A., 3,467,216.
Matheson, Wilfrid G.; Clune, James P.; and Pricenski, Theodore J., 3,427,421.
Matheson, Wilfrid G.; and Princenski, Theodore J., 3,427,547.
Menelly, Richard A.; and Kimball, Lawrence W., 3,457,447.
Menendez, Joseph Lee; and Scott, Benton Boyd, 3,439,116.
Mengers, Paul E., 3,476,948.
Mermelstein, Seymour, 3,484,093.
Miller, Robert C., 3,426,170.
Momberger, Richard Alan, 3,466,491.
Neal, Charles Bailey; and Pool, Lawrence R., 3,463,961.
Neal, Charles Bailey, 3,469,023.
Neuber, Ralph E., 3,471,813.
Oshman, Malin Kenneth; and Harris, Stephen E., 3,431,514.
Paget, Fredrick W.; and Peek, Sandford C., Jr., 3,457,458.
Paget, Fredrick W., 3,479,559.
Paget, Fredrick W.; and Van Buren, Ned Scott, 3,479,560.
Palmer,Joseph P., 3,446,180.
Pawlikowski, Stanley L.; and Say, Donald L., 3,440,474.
Peek, Sandford C., 3,463,965.
Peek, Sandford C., 3,466,500.
Peek, Sandford C., 3,479,558.
Peek, Sanford C., 3,428,862.
Peltz, John Robert; and Stoldt, Clayton L., 3,446,086.
Peters, Charles J., 3,465,156.
Peters, Charles Jack, 3,433,553.
Powers, Martin V., 3,435,350.
Rhee, Dong W.; and Wheeler, Robert Charles, 3,440,481.
Rowe, Edward, 3,423,622.
Russi, Joseph N., 3,462,632.
Rychlewski, Thaddeus V., 3,484,975.
Schimmel, Donald G., 3,439,306.
Schimmel, Donald G., 3,486,222.
Scott, Benton Boyd; and Taylor, Thomas Lester, 3,465,344.
Sentementes, Thomas J.; and Pomroy, Carl, 3,442,987.
Shaffer, John W.; and Hartman, Donald W., 3,439,992.
Smith, Richard E.; and Fleming, Raymond T., 3,440,473.
Smithgall, Harry E., 3,448,667.
Sokoloff, Paul W., 3,471,845.
Stanton, Howard, Jr., 3,465,433.
Stites, Francis H.; and Feigin, Franklin L., 3,456,997.
Taylor, Thomas Lester; and Wigton, Elwin Cleland, 3,450,937.
Teixeira, James F., 3,444,465.
Theodosopoulos, James; and Mackay, Stanley, 3,450,565.
Toma, Sam Z.; Mathers, James E.; and Mikus, Felix F., 3,424,692.
Tonner, Richard C.; and Cerniglia, Nino P., 3,464,104.
Uppal, Iqbal Singh, 3,426,289.
Vient, Bernard G., 3,422,377.
Wanner, Louis R., 3,483,349.
Waymouth, John F., 3,425,767.
Waymouth, John F.; and Koury, Frederic, 3,427,087.
Waymouth, John F., 3,445,721.
Wilson, Dennis L.; and Knight, Gordon R., 3,453,626.
Yale, Ramon L.; and Mathers, James E., 3,484,381.
Zachrich, Charles W., 3,449,612.

Sylvester, Alfred Glenn. Multiple tooth subsoil plow. 3,450,212, 6-17-69, Cl. 172-699.
Sylvester, Edmund Quincy. Apparatus for casting metal. 3,465,810, 9-9-69, Cl. 164-259.
Sylvester, Gerald W.: *See—*
Taylor, Stephen E.; and Sylvester, Gerald W.,3,444,364.
Sylvester, John D.; and Keenan, John D., Jr., to Amsco Packaging Machinery, Inc. Bag loading device having two-part bag support means. 3,478,490, 11-18-69, Cl. 53-189.
Sylvester, Kermit H.; Franz, William E.; and McGlathery, Robert M., to Chemilumen Corporation. Dosimeter for sensing ultraviolet radiation. 3,449,572, 6-10-69, Cl. 250-83.
Sylvester, Robert A.: *See—*
Hofmeister, Konrad J.; and Sylvester, Robert A.,3,428,817.
Sylvester, Robert T., to United States of America, Atomic Energy Commission. Grounding device in an electrical connector Locking devices for fluorescent lamps. 3,466,590, 9-9-69, Cl. 339-14.
Sylvester, Ronald R. Masonry cutter. 3,439,664, 4-22-69, Cl. 125-23.
Sylvester, Ronald R. Tackle chest. 3,461,599, 8-19-69, Cl. 43-57.5
Symaniec, Leonidas: *See—*
Skenderoff, Claude; and Symaniec, Leonidas,3,483,557.
Symco Enterprises, Inc.: *See—*
Macko, Richard, 3,486,092.
Symes, Marvin F. Combination trailer and hand cart. 3,443,268, 5-13-69, Cl. 9-1.
Symes, William F., to Monsanto Company. Detergent compositions containing magnesium di (dichloroisocyanurate). 3,454,699, 7-8-69, Cl. 424-249.
Symes, William F.: *See—*
Sims, Marc J.; and Symes, William F.,3,427,314.
Symington Wayne Corporation: *See—*
Cope, Geoffrey W., 3,439,630.
Cope, Geoffrey W., 3,439,631.
Cope, Geoffrey W.; and Suckow, Fred G., 3,465,900.
Copony, Edward L.; and Gerstenmaier, William J., 3,428,786.
Copony, Edward L.; Pedroli, Walter E.; and Hermann, Robert, 3,434,155.
Symmons Engineering Company: *See—*
Symmons, Paul C., 3,448,755.
Symmons, Paul C., 3,471,872.
Symmons, Paul C., to Symmons Engineering Company. Non-scald mixing valve. 3,448,755, 6-10-69, Cl. 137-100.
Symmons, Paul C., to Symmons Engineering Company. Plumbing fixture for baths. 3,471,872, 10-14-69, Cl. 4-145.
Symons Mfg. Company: *See—*
Bowden, George F.; and Gilbert, John R., 3,420,491.
Bowden, George F.; and Dagiel, Richard T., 3,430,910.
Bowden, George F.; and Gilbert, John R., 3,446,470.
Bowden, George F.; and Dagiel, Richard T., 3,467,054.
Bowden, George F.; and Gilbert, John R., 3,469,817.
Dagiel, Richard T., 3,477,684.
Schimmel, Vernon R., 3,429,547.
Schimmel, Vernon R., 3,486,729.
Williams, Walter D., 3,445,084.
Synbar Associates: *See—*
McConnell, Harden M.; and Griffith, Osbie H., 3,481,952.

Synchro Machine Company: *See—*
Beck, Alvin F., 3,448,937.
Synchro-Drive Limited: *See—*
Sinclair, Harold, 3,487,422.
Syncro Corporation: *See—*
Beltramo, Renaldo M., 3,423,135.
Syncro Machine Company: *See—*
O'Grady, Joseph V., 3,462,993.
Syndyne Corporation: *See—*
Barnard, Robert A., 3,452,307.
Hamrick, Donald James, 3,477,122.
Synergistics, Inc.: *See—*
Halpern, Alfred, 3,422,191.
Halpern, Alfred, 3,449,391.
Sackler, Mortimer D.; and Halpern, Alfred, 3,452,022.
Synfibrit G.m.b.H. & Co.: *See—*
Heidrich, Walter; and Korner, Klaus, 3,432,580.
Syntex Corporation: *See—*
Alvarez, Francisco, 3,453,295.
Alvarez, Francisco, 3,481,925.
Alvarez, Francisco S., 3,450,722.
Beard, Colin C.; and Cross, Alexander D., 3,438,977.
Beard, Colin C.; and Cross, Alexander D., 3,457,285.
Beard, Colin C.; and Cross, Alexander D., 3,478,066.
Berkoz, Belig, 3,472,882.
Bowers, Albert, 3,423,436.
Bowers, Albert; Edwards, John; and Orr, James C., 3,427,386.
Bowers, Albert, 3,449,381.
Cross, Alexander; and Fried, John H., 3,485,853.
Cross, Alexander D., 3,423,405.
Cross, Alexander D., 3,429,888.
Cross, Alexander D.; Edwards, John A.; and Berkoz, Belig, 3,429,899.
Cross, Alexander D., 3,468,877.
Cross, Alexander D., 3,476,757.
Cross, Alexander D.; and Fried, John H., 3,481,957.
Cross, Alexander D.; and Fried, John H., 3,484,436.
Cross, Alexander D.; and Fried, John H., 3,484,465.
Dorfman, Ralph I., 3,476,859.
Edwards, John A., 3,423,438.
Edwards, John A., 3,423,439.
Edwards, John A.; and Knox, Lawrence H., 3,435,056.
Edwards, John A., 3,438,975.
Edwards, John A.; and Fried, John H., 3,455,972.
Edwards, John A., 3,461,118.
Edwards, John A., 3,467,678.
Edwards, John A., 3,470,162.
Edwards, John A., 3,478,019.
Fried, John H., 3,420,830.
Fried, John H.; and Cross, Alexander D., 3,423,403.
Fried, John H., 3,424,750.
Fried, John H., 3,424,769.
Fried, John H., 3,428,626.
Fried, John H., 3,428,657.
Fried, John H., 3,432,492.
Fried, John H., 3,450,723.
Fried, John H., 3,454,601.
Fried, John H., 3,457,259.
Fried, John H., 3,459,741.
Fried, John H., 3,471,477.
Fried, John H., 3,485,827.
Fried, John H., 3,485,829.
Ginsig, Robert, 3,470,217.
Halpern, Otto, 3,452,003.
Halpern, Otto, 3,475,464.
Jones, Gordon H.; and Moffatt, John G., 3,446,793.
Jones, Gordon H.; and Moffatt, John G., 3,457,255.
Kinel, Fred A., 3,461,142.
Knox, Lawrence H., 3,444,188.
Knox, Lawrence H., 3,457,284.
Knox, Lawrence H., 3,467,713.
Moffatt, John G., 3,457,315.
Moffatt, John G.; and Fenselau, Allan H., 3,476,794.
Ringold, Howard J.; Bowers, Albert; Rosenkranz, George; and Mancera, Octavio, 3,438,978.
Ringold, Howard J.; and Rosenkranz, George, 3,445,462.
Ringold, Howard J.; and Rosenkranz, George, 3,445,490.
Ringold, Howard J.; and Rosenkranz, George, 3,452,057.
Ringold, Howard J.; and Bowers, Albert, 3,452,058.
Ringold, Howard J.; and Bowers, Albert, 3,485,852.
Siddall, John B., 3,440,241.
Throop, Lewis J., 3,444,057.
Throop, Lewis J., 3,444,059.
Verheyden, Julien P.; and Moffatt, John G., 3,472,837.
Zderic, John A., 3,431,256.
Zderic, John A., 3,435,057.
Zderic, John A., 3,470,157.
Zderic, John A., 3,470,158.
Zderic, John A., 3,485,828.
Synvar Associates: *See—*
Mc Connell, Harden M., 3,453,288.
Syscon, Inc.: *See—*
Multhopp, Hans, 3,480,235.
System Development Corporation: *See—*
Sperling, Irving; and Wills, Connable F., 3,445,577.
System Paulin Aktiebolag: *See—*
Jansson, Sven Arne Martin, 3,427,981.
Systematix: *See—*
Strom, John R.; and Weyrick, Harvey W., 3,465,550.
Systematix Controls, Inc.: *See—*
Weyrick, Harvey W., 3,486,971.
Systems, Inc.: *See—*
McGuire, George E., 3,456,274.
Systems Technology, Inc.: *See—*
Ashkenas, Irving L.; Durand, Tulvio S.; and McRuer, Duane T., 3,483,302.
Systron-Donner Corporation: *See—*
Koda, Eiji, 3,461,400.
Krabbe, Heinrich Friedrich, 3,429,189.
Walker, Donald V.; and Hall, Richard F., 3,479,625.
Szabat, John F., to Mobay Chemical Company. Process for producing cellular polyurethane, using alkyl or aryl acid phosphates. 3,468,819, 9-23-69, Cl. 260-2.5
Szabo, Barna, Jr.: *See—*
Grelecki, Chester J.; Keeler, Robert A.; and Szabo, Barna, Jr.,3,470,042.
Szabo, Karoly; and Brady, John Gary, to Stauffer Chemical Company. Method of killing pests by application of a phosphoro derivative of (methylthio)cresol. 3,427,384, 2-11-69, Cl. 424-216.
Szabo, Karoly; and Brady, John Gary, to Stauffer Chemical Company. O-Alkyl-S-phthalimidomethyl alkyldithiophosphonates. 3,457,283, 7-22-69, Cl. 260-326.
Szabo, Karoly; and Brady, John Gary, to Stauffer Chemical Company. S-chlorophenoxy-methyl, thio, dithio phosphonates or phosphates as insecticides and acaricides. 3,462,530, 8-19-69, Cl. 424-217.
Szabo, Karoly; Fancher, Llewellyn W.; and Broadbent, David J., to Stauffer Chemical Company. Killing of pests with alkyl sulfonamide phosphates and phosphonates. 3,446,896, 5-27-69, Cl. 424-211.
Szabo, Karoly; and Freiberg, Ashley H., to Stauffer Chemical Company. Guanidine complexes as fungicides. 3,479,437, 11-18-69, Cl. 424-304.
Szabo, Ladislaus D. A.; and Keimer, Birgit Yrsa, to Upjohn Company, The. Dermatological composition containing fluorometholone. 3,482,018, 12-2-69, Cl. 424-181.
Szabo, Louis J., to General Electric Company. Vacuum cleaner with cord reel. 3,447,189, 6-3-69, Cl. 15-323.
Szabo, Lyubomir: *See—*
Rathke, Wolfgang; Szabo, Lyubomir; and Muhlen, Gert V. D.,3,464,179.
Szabo, Marton, to Philadelphia Handle Company Inc. Self-centering collapsible handle. 3,426,384, 2-11-69, Cl. 16-115.
Szabo, Marton, to Philadelphia Handle Company, Inc. Collapsible handle operable by exertion of a push downwardly on one end thereof. 3,447,196, 6-3-69, Cl. 16-115.
Szabo, Marton, to Philadelphia Handle Company, Inc. Collapsible handle operable by exertion of a push downwardly on one end thereof. 3,447,197, 6-3-69, Cl. 16-115.
Szabo, Marton, to Philadelphia Handle Company, Inc. Retainer for collapsible handle for a carrying case. 3,479,702, 11-25-69, Cl. 24-73.
Szabo, Ted T.; and Klosek, Felix Peter, to Union Carbide Corporation. Apparatus for devolatilizing liquid polymer compositions. 3,451,462, 6-24-69, Cl. 159-2.
Szabrak, Robert H., to Stein, Sam, Associates, Inc. Conveyor for batter-coated food product. 3,450,026, 6-17-69, Cl. 49-407.
Szaj, Arnold P.: *See—*
Gasparac, Rudolph J.; and Szaj, Arnold P.,3,437,277.
Peters, Helmut; and Szaj, Arnold P.,3,420,457.
Szajna, John L., to Continental Can Company, Inc. Neck reaming and finishing tools. 3,434,202, 3-25-69, Cl. 29-566.
Szajna, John L., to Continental Can Company, Inc. Machine for making hollow articles. 3,457,591, 7-29-69, Cl. 18-5.
Szajng, Danuta: *See—*
Horodko, Romuald; Rzuchowska, Ida; Szajng, Danuta; Walewska, Kazimiera; and Zukowska, Maria,3,484,070.
Szaksz, Julius: *See—*
Morris, James Ernest; Harrison, Edmund, Jr.; and Szaksz, Julius,3,448,721.
Szala, Norman M., to Pullman Incorporated. Reinforced hopper car construction. 3,470,829, 10-7-69, Cl. 105-248.
Szalanczy, Emil. Lock screw construction. 3,429,351, 2-25-69, Cl. 151-14.
Szalay, Paul J.; and Johnson, Carl A., to Owens-Illinois, Inc. Method of improving heat stability of vinyl chloride polymers. 3,484,397, 12-16-69, Cl. 260-17.5
Szanto, Joseph J. Valve core. 3,480,035, 11-25-69, Cl. 137-294.5
Szarvasi, Etienne; and Bayssat, Michel, to Lipha, Lyonnaise Industrielle Pharmaceutique. Disubstituted alcohols substituted by a naphthyl radical. 3,440,250, 4-22-69, Cl. 260-347.8

Szarvasi, Etienne; and Bayssat, Michel, to Lipha, Lyonnaise Industrielle Pharmaceutique. Nitrogenous bases substituted by at least one naphthyl or naphthyl-methyl radical. 3,458,529, 7-29-69, Cl. 260-326.3

Szarvasi, Etienne; and Neuvy, Liliane, to Lipha, Lyonnaise Industrielle Pharmaceutique. Compositions and method for arresting spasms with the diethylaminoethyl ester of beta-(-naphthyl)- beta'-tetrahydrofurylisobutyric acid. 3,445,574, 5-20-69, Cl. 424-285.

Szasz, Peter R.: *See—*
Zange, Earl A.; and Szasz, Peter R.,3,458,102.

Szasz, Stephen E.; and Kilmer, Lauren G., to Sinclair Research, Inc. Apparatus for comparing graph curves including a dichroic mirror. 3,462,228, 8-19-69, Cl. 356-168.

Szava, Jeno; Sarosi, Magdolna; and Totos, Rosa, to Chemolimpex Magyar Vegiaru Kulkereskedelmi Vallalat. Dimethylamino-bis(2-hydroxyphenyl) sulfonic and carboxylic acid and metal chelates thereof. 3,463,799, 8-26-69, Cl. 260-429.

Szcupak, Peter; and Andersen, Kare, to Chicago Rawhide Manufacturing Company. Shaft seal. 3,477,730, 11-11-69, Cl. 277-24.

Szcur, Albert, Jr.: *See—*
Parsi, Edgardo J.; and Szcur, Albert, Jr.,3,440,149.

Szczepanek, Alfred; and Szczepanek, Margarete, to Hoesch-Chemie Gesellschaft mit beschraenkter Haftung Duren-Chemie, mesne. Process for the production of metal soaps of epoxydized fatty acids. 3,459,776, 8-5-69, Cl. 260-348.

Szczepanek, Margarete: *See—*
Szczepanek, Alfred; and Szczepanek, Margarete,3,459,776.

Szczepanski, Harry. Indexing vertical rotary mask-washing machine. 3,448,744, 6-10-69, Cl. 134-79.

Szczerba, Roman: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.

Szczodry, Aleksander. Process for the preparation of ammonium bromide. 3,471,251, 10-7-69, Cl. 23-100.

Szczur, Albert: *See—*
Wilde, Leon G.; Szczur, Albert; and Stephens, William J.,3,451,438.

Sze, Morgan C.; and Bauer, William V. Two-stage hydrotreating of dripolene. 3,429,804, 2-25-69, Cl. 208-144.

Sze, Morgan C.; and Stewart, Donald B., to Lummus Company, The. Production of hydrogen. 3,479,298, 11-18-69, Cl. 252-373.

Sze, Morgan C.: *See—*
Mekler, Valentine; Sze, Morgan C.; Bloomer, Ward J.; and Bauer, William V.,3,420,656.
Reilly, James W.; and Sze, Morgan C.,3,450,784.
Thornton, James F.; and Sze, Morgan C.,3,456,622.

Szegvari, Andrew. Agitator. 3,450,356, 6-17-69, Cl. 241-172.

Szegvari, Andrew. Dispersing apparatus. 3,486,705, 12-30-69, Cl. 241-172.

Szekely, Edmond Bordeaux. Bathing vessel, liquid agitated by multiple jets of air. 3,467,969, 9-23-69, Cl. 4-180.

Szekely, Steven M.: *See—*
Levy, Donald; Rusz, Tibor; and Szekely, Steven M.,3,465,753.

Szentaszloi, Alexander; and Weiss, Melvin I., to Bliss, E. W., Company. Lowering trough assembly for use with a continuous casting machine. 3,461,951, 8-19-69, Cl. 164-282.

Szentkuti, Charles, to Ivanhoe Research Corporation, mesne. Automatic apparatus for separating the top workpiece from a stack of fabric workpieces and for delivering the separated workpieces. 3,442,505, 5-6-69, Cl. 271-1.

Szeremany, Julius, to Daniels Plating Barrel & Supply Company. Barrel plating machine. 3,434,954, 3-25-69, Cl. 204-214.

Szeremy, Norman, to General Electric Company. Contrast control circuit for television receiver. 3,435,139, 3-25-69, Cl. 178-7.3

Szeremy, Norman, to General Electric Company. Pulse circuit for horizontal output circuit in television receiver. 3,452,153, 6-24-69, Cl. 178-7.3

Szeremy, Norman, to General Electric Company. Combined keyed AGC and sync separator circuit. 3,482,041, 12-2-69, Cl. 178-7.3

Szeremy, Norman; Highland, Andrew, Jr.; and Elwell, Charles E., deceased0 (by Elwell, Betty D.; administratrix), to General Electric Company. Combined cord connector and strain relief with receptacle. 3,448,429, 6-3-69, Cl. 339-61.

Szerenyl, Andrew; and Liebscher, Anton, to Ro-Search, Incorporated. Method of manufacture of footwear having anti- skid soles. 3,426,120, 2-4-69, Cl. 264-244.

Szereszewski, Pinchas Paul; and Guy, Jean-Baptiste, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Apparatus for regulating free piston gas generators. 3,442,259, 5-6-69, Cl. 123-46.

Szeverenyi, Nikolaus A.: *See—*
Jenkins, Carlton Gene; Stoldt, Clayton Lewis; and Szeverenyi, Nikolaus A.,3,481,607.

Sziksay, Anton, to Comitetul de Stat Pentru Cultura Si Arta. Viewfinder for cameras with optical pickup from film surface. 3,473,457, 10-21-69, Cl. 95-42.

Szilagyi, Bela: *See—*
Price, Howard; Szilagyi, Bela; and Quinto, Mario,3,481,268.

Szilagyi, Dezso: *See—*
Cary, Francis H.; Miner, Irving O.; and Szilagyi, Dezso,3,442,489.

Szilagyi, Gabor J., to Celanese Corporation. Printing of polyethylene terephthalate fabrics. 3,440,001, 4-22-69, Cl. 8-62.

Szilagyi, Geza: *See—*
Kasztreiner, Endre; Borsi, Jozsef; Vargha, Laszlo; Boris, Meszaros, Erika; and Szilagyi, Geza,3,432,549.

Szilard, Julius A.: *See—*
Eager, George S., Jr.; and Szilard, Julius A.,3,459,871.

Szita, Jeno: *See—*
Bahr, Ulrich; Suling, Carlhans; Nischk, Gunther; and Szita, Jeno,3,483,208.

Szita, Jeno; Bahr, Ulrich; Wieden, Horst; Marzolph, Herbert; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile copolymers with unsaturated sulfobetaines and process for preparing same. 3,478,001, 11-11-69, Cl. 260-79.3

Szita, Jeno; Marzolph, Herbert; and Unger, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of acrylonitrile polymers. 3,449,286, 6-10-69, Cl. 260-30.4

Szita, Jeno; Marzolph, Herbert; and Unger, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Production of acrylonitrile polymers. 3,453,249, 7-1-69, Cl. 260-85.5

Szita, Jeno; Rinkler, Heinrich; Marzolph, Herbert; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile copolymers. 3,470,141, 9-30-69, Cl. 260-78.5

Szitar, John E., Jr., to Teledyne, Inc. Tube flaring machine. 3,477,265, 11-11-69, Cl. 72-117.

Szitz, Jeno; Nogaj, Alfred; and Marzolph, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Bi-component acrylonitrile filaments and process for producing the same. 3,470,060, 9-30-69, Cl. 161-175.

Szklarski,Ludger Miroslaw: *See—*
Jezewski, Mieczyslaw Stanislaw; Kawecki, Zygmunt Tadeusz; Szklarski,Ludger Miroslaw; Krawczyk, Eugeniusz Marian; and Ogorzalek, Jerzy Marian,3,424,976.

Szklarz, Eugene G.: *See—*
Krupka, Milton C.; Giorgi, Angelo L.; Krikorian, Nerses H.; and Szklarz, Eugene G.,3,482,940.

Szmuszkovicz, Jacob: *See—*
Anthony, William C.; and Szmuszkovicz, Jacob,3,470,204.
Anthony, William C.; and Szmuszkovicz, Jacob,3,470,205.

Szmuszkovicz, Jacob, to Upjohn Company, The. 2,3-Bis[P-(W-aminoalkoxy, phenyl]-indoles. 3,420,838, 1-7-69, Cl. 260-294.7

Szmuszkovicz, Jacob, to Upjohn Company, The. 2-(2-Furoyl)cycloalkanones, 2-furyl-2-(hetero- cyclicamino) cycloalkyl ketones, and d-(2-furyl)-2- heterocyclicamino-cyclohexanemethanols. 3,458,523, 7-29-69, Cl. 260-294.7

Szmuszkovicz, Jacob, to Upjohn Company, The. 2,3-Bis(alkoxy phenyl)pyrroles. 3,462,451, 8-19-69, Cl. 260-326.5

Szmuszkovicz, Jacob, to Upjohn Company, The. Allylic amines. 3,468,881, 9-23-69, Cl. 260-240.

Szmuszkovicz, Jacob, to Upjohn Company, The. 2,3 Bis(alkoxyphenyl)-1-pyrroline. 3,478,053, 11-11-69, Cl. 260-326.5

Szobel, Laszlo; Troussier, Maurice; and Vuillemenot, Jacques, to Ugine Kuhlmann. Novel acids and esters derived from halogenated phenols. 3,446,838, 5-27-69, Cl. 260-473.

Szodfridt, Imre, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Hydrodynamic torque converter, especially for transmissions of motor vehicles. 3,473,327, 10-21-69, Cl. 60-54.

Szohatzky, Zoltan: *See—*
Lennon, Fred A.; Zahuranec, Emery J.; Dodge, Harry G.; and Szohatzky, Zoltan,3,475,948.
Lennon, Fred A.; Zahuranec, Emery J.; Szohatzky, Zoltan; and Beck, Edward,3,447,405.

Szonn, Reinhold: *See—*
Bechtloff, Gert; and Szonn, Reinhold,3,429,420.

Szopo, Alexander. Swivelling shoe brush combination. 3,451,092, 6-24-69, Cl. 15-106.

Szostak, Jerzy Przemyslaw: *See—*
Bonikowski, Zbigniew; and Szostak, Jerzy Przemyslaw,3,461,369.

Szostek, Joseph John. Reusable package. 3,463,309, 8-26-69, Cl. 206-78.

Szosteki, Walter J.: *See—*
McLogan, Russell E.; Silverstein, Raymond E.; and Szosteki, Walter J.,3,455,355.

Szpilfogel, Stefan Antoni: *See—*
Van Dorp, David Adriaan; and Szpilfogel, Stefan Antoni,3,423,434.

Szpur, Roman. Magnetic mixing and stirring device. 3,433,465, 3-18-69, Cl. 259-111.

Szpur, Roman. Coherent radiation device irradiated by means of radar waves. 3,453,556, 7-1-69, Cl. 331-94.5

Szuba, Walter D.; and Hannen, James H., Jr., to Singer Company, The. Needle jogging mechanisms. 3,476,066, 11-4-69, Cl. 112-158.

Szubin, Edward D., to Ironees Company, The. Composition for conferring wrinkle resistant properties to fabric and method for preparing the same. 3,440,198, 4-22-69, Cl. 260-29.4

Szucs, Laszlo; Tarnadi, Csaba; and Kornyey, Tamas, to Chemokomplex Gep es Berendezes Export-Import Vallalat. Apparatus for flash-evaporating liquids. 3,446,189, 5-27-69, Cl. 122-40.

Szumilas, Raymond S.: *See—*
Keene, Robert J.; and Szumilas, Raymond S.,3,448,788.

Szumski, Stephen Aloysius; and Uhl, Herbert Bennett, to American Cyanamid Company. Process for applying liquid biologicals to applicators for intracutaneous injection. 3,470,011, 9-30-69, Cl. 117-47.

Szupillo, Raymond E., to Corning Glass Works. Discontinuous thin film multi-stable state resistors. 3,474,305, 10-21-69, Cl. 317-234.

Szur, Alex J.: *See—*
Croix, Louise S.; and Szur, Alex J.,3,476,860.

Szwarcman, Mieczyslaw. Method for machining a gas permeable material. 3,465,481, 9-9-69, Cl. 51-324.

Szwargulski, Alex N.: *See—*
Carlson, Harold A.; and Szwargulski, Alex N.,3,471,123.

Szwargulski, Jesse L., to ACF Industries, Incorporated. Automatic choke for a carburetor. 3,486,742, 12-30-69, Cl. 261-39.

Szymanski, Chester D.: *See—*
Evans, Raymond B.; Kruger, Leo H.; and Szymanski, Chester D.,3,463,668.
Marotta, Nicholas G.; Boettger, Richard M.; Nappen, Bernard H.; and Szymanski, Chester D.,3,455,838.

Szymanski, Leonard W., to Borg-Warner Corporation. Unthrottled engine combustion system. 3,452,726, 7-1-69, Cl. 123-32.

Szymanski, Richard, to Brunswick Corporation. Convertible bowling lane. 3,477,719, 11-11-69, Cl. 273-37.

Szymber, Oleg, to GAF Corporation. Slide projector-viewer and slide changing device therefor. 3,447,869, 6-3-69, Cl. 353-71.

Szymski, Eugene J., to General American Transportation Corporation. Hydraulic cylinder with automatic adjustment of retraction of its piston. 3,458,017, 7-29-69, Cl. 188-196.

Szyszka, Manfred: *See—*
Baumgaertner, Wilhelm; Zwicker, Ludwig; and Szyszka, Manfred,3,439,647.

T & P Mechanical Co., Inc.: *See—*
Thomas, Ward, 3,486,313.

T & S Equipment Co.: *See—*
Leclear, Robert L., 3,444,574.

T & T Technology, Inc.: *See—*
Tong, Peter P.; and Thomas, Richard H., 3,461,724.

T-Scan Limited: *See—*
Richardson, Lyman Elmer, 3,484,587.

Taal, Leo: *See—*
Sieders, Rene; and Taal, Leo,3,484,277.

Tab Products Co.: *See—*
Biegel, Donald R.; and Willis, John W., 3,436,526.
McCune, Thomas W.; and Foote, Francis S., Jr., 3,442,394.

Tabachnick, Irving I. A.: *See—*
Reimann, Hans; and Tabachnick, Irving I. A.,3,463,852.

Tabata, Kazutaka, to Kabushiki Kaisha Banbi. Watch band. 3,469,749, 9-30-69, Cl. 224-4.

Tabeling, Raymond W.: *See—*
Levy, Paul F.; and Tabeling, Raymond W.,3,474,658.

Tabeling, Raymond W., to Du Pont de Nemours, E. I., and Company. Base line slope compensating circuit. 3,473,382, 10-21-69, Cl. 73-341.

Taber, Allen M.: *See—*
Evans, Don; Stone, Ray; Forman, William; and Taber, Allen M.,3,456,949.

Taber, David: *See—*
Jungermann, Erick; and Taber, David,3,445,398.

Taber, James A. Mobile wax applicator. 3,457,015, 7-22-69, Cl. 401-48.

Taber, Robert C.; and Brooks, Dugald A., to Eastman Kodak Company. Mordants for bleachable filter layers. 3,425,833, 2-4-69, Cl. 96-84.

Taber, Russell E., to Mead Corporation, The. Method of making a self-coiling sheet. 3,426,115, 2-4-69, Cl. 264-160.

Tabikh, Ali A., to California Portland Cement Company. Apparatus and method for monitoring surface area of flowing comminuted material. 3,482,452, 12-9-69, Cl. 73-432.

Tabisz, Sylvester C., to United States of America, Army, mesne. Parallel gray to binary converter with ambiguity check between two encoders. 3,426,347, 2-4-69, Cl. 340-347.

Tabler, Donald C., to Phillips Petroleum Company. Production of dense soda ash. 3,486,844, 12-30-69, Cl. 23-63.

Tabor, John R. Tunnel liner and method of making same. 3,449,916, 6-17-69, Cl. 61-45.

Tabor, John R. Tunnel liner and method of making same. 3,483,704, 12-16-69, Cl. 61-45.

Tabor, John R. Tunneling machine with inclined cutting wheel. 3,486,794, 12-30-69, Cl. 299-33.

Tabor, Joseph A., to Burdsall Russell & Ward Bolt and Nut Company. Prevailing-torque lockscrews. 3,459,250, 8-5-69, Cl. 151-22.

Tabor, Paul C., to Meteor Research Limited. Seat back adjuster link. 3,424,492, 1-28-69, Cl. 297-361.

Tabor, Paul C., to Meteor Research Limited, (as nominee of Mercury Metalcraft Company). Closure latch. 3,441,303, 4-29-69, Cl. 292-306.

Tabor, Paul C., to Meteor Research Limited. Tilt plate latch release. 3,468,579, 9-23-69, Cl. 292-306.

Tabor, Paul C., to Budd Company, The, mesne. Tilting seat back adjuster and latching means. 3,481,646, 12-2-69, Cl. 297-355.

Tabor, Robert W.: *See—*
Shomphe, George J.; Tabor, Robert W.; and Lalmond, Harold W.,3,423,574.

Tabor, Warner H.: *See—*
Klein, William G.; and Tabor, Warner H.,3,447,206.

Tabor, William J., to Bell Telephone Laboratories, Incorporated. Word organized optical memory. 3,438,005, 4-8-69, Cl. 340-173.

Tabor, William J., to Bell Telephone Laboratories, Incorporated. Birefringent device for forming multiple images. 3,438,692, 4-15-69, Cl. 350-157.

Tabor, William J.: *See—*
Koo, James T.; Tabor, William J.; and Varnerin, Lawrence J., Jr.,3,454,938.

Taborosi, Steve: *See—*
McLeod, James E.; Taborosi, Steve; Groening, Harvey F.; and Riechers, Harold D.,3,469,938.

Tabourin, Jean F., to Bureau de Recherches Geologiques et Minieres, and Minerais et Metaux. Installation for automatic attack of materials with a view to their chemical analysis. 3,466,146, 9-9-69, Cl. 23-253.

Tabuchi, Norio: *See—*
Fukuyo, Hitohiro; and Tabuchi, Norio,3,435,368.

Taccone Corporation: *See—*
Medill, Edwin C., 3,453,656.

Tacey, Charles Arthur, to Philograph Publication Limited. Didactic device for teaching mathematics to children. 3,435,541, 4-1-69, Cl. 35-31.

Tacey, Clarence J.: *See—*
Meyer, Victor E.; Tacey, Clarence J.; and Houggy, Dennis E.,3,422,038.

Tachick, Henry N., to General Electric Company. Body organ electrode. 3,472,234, 10-14-69, Cl. 128-418.

Tachimoto, Kazuo; Kamoshida, Tsugio; and Akagawa, Tsugio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Process of manufacturing small castings of ferroalloy. 3,429,362, 2-25-69, Cl. 164-70.

Tack, Carl E., to Amsted Industries Incorporated. Railway car roll stabilizer. 3,482,530, 12-9-69, Cl. 105-199.

Tack, Carl E., to Amsted Industries Incorporated. Reinforced railway truck bolster. 3,482,531, 12-9-69, Cl. 105-226.

Tack, Willy Pieter: *See—*
Van Bouwel, Leo Paul; and Tack, Willy Pieter,3,435,539.

Tackabery, Richard E. Three-function portable recorder. 3,453,644, 7-1-69, Cl. 346-32.

Tackett, Edd: *See—*
Broscoff, Mary E.; and Tackett, Edd,3,452,485.

Taco, Inc.: *See—*
Pellett, David L., 3,430,917.

Tacoma Millwork Supply Company: *See—*
Bucholz, Allan A., 3,439,377.

Tada, Yasuo, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling ignition time of automobile engine. 3,478,729, 11-18-69, Cl. 123-117.

Tada, Yoshinosuke; Mizuno, Syoji; Kashima, Syunsaku; Yasui, Seiichi; and Sugiura, Taku, to Yahagi Seitetsu Kabushiki Kaisha. Damp grinding for agglomeration. 3,420,453, 1-7-69, Cl. 241-15.

Tadanier, John Soloman, to Abbott Laboratories. 6,17,19-Substituted 3α,5α-cycloandrostanes. 3,450,725, 6-17-69, Cl. 260-397.4

Tadao Yamaoka: *See—*
Yamada, Tadashi; and Tsujimoto, Shinichi, 3,443,553.

Taddeo, Clifford, F.: *See—*
Trautman, Oscar C.; and Taddeo, Clifford, F.,3,427,430.

Tadeda Chemical Industries, Ltd.: *See—*
Miyazawa, Homare; Tarui, Shoichi; and Kamada, Masaki, 3,465,720.

Tadenuma, Koji, to Kokusai Denshin Denwa Kabushiki Kaisha. Regeneration system for a transmitted telegraph signal. 3,436,481, 4-1-69, Cl. 178-70.

Tado, Hiroshi, to Yanmar Diesel Engine Co., Ltd. Suction device for rotary piston internal combustion engine. 3,424,135, 1-28-69, Cl. 123-8.

Tado, Keishi: *See—*
Takada, Toshihisa; Ishikawa, Hisao; Tado, Keishi; and Matsui, Yukio,3,481,782.

Taebel, Wilbert A.; and Hoekstra, Gerard W. Pyrolytic beryllia. 3,484,278, 12-16-69, Cl. 117-106.

Taebel, Wilbert A.: *See—*
Allen, Walter C.; and Taebel, Wilbert A.,3,433,656.

Taesler, Rudolf, to Zeiss Ikon Aktiengesellschaft. Gripper feed mechanism for cinematographic apparatus. 3,472,437, 10-14-69, Cl. 226-67.

Tafel, Leonard: *See—*
Hermach, Carl J.; and Tafel, Leonard,3,425,348.
Taft, David D.: *See—*
Curtice, Gerald M.; and Taft, David D.,3,442,835.
Taft, David D., to Ashland Oil & Refining Company. Water dispersible polyalkylene glycol modified, non-drying alkyd resins. 3,437,618, 4-8-69, Cl. 260-22.
Taft, David D., to Ashland Oil & Refining Company. Vinylation of fatty substances. 3,453,224, 7-1-69, Cl. 260-22.
Taft, David D., to Ashland Oil & Refining Company. Self-catalyzed curable compositions containing an epoxy and a vinyl modified acidic polyester. 3,455,858, 7-15-69, Cl. 260-22.
Taft, David D. Curable composition containing epoxy and vinyl modified polyester. 3,463,749, 8-26-69, Cl. 260-22.
Graver, Richard B.; Heidecker, Stephen C.; and Taft, David D.,3,481,735.
Wallman, Walter A.; and Taft, David D.,3,485,781.
Taft, Ernest A., Jr.; and Gray, Peter V., to General Electric Company. Processes of epitaxial deposition or diffusion employing a silicon carbide masking layer. 3,451,867, 6-24-69, Cl. 148-175.
Taft, Lewis G.: *See—*
Marchese, Michael A.; and Taft, Lewis G.,3,461,841.
Taft, William E.: *See—*
Ham, Donald M.; and Taft, William E.,3,434,659.
Taft-Peirce Manufacturing Company, The: *See—*
Meyer, Franklin, Jr., 3,443,417.
Tag-O-Matic Machine Co., Inc.: *See—*
Braun, Philip N.; and Meier, Fredrice, 3,448,869.
Taga, Jun. Apparatus for moulding sections of circularly bent tubing from thermoplastic material. 3,425,092, 2-4-69, Cl. 18-12.
Taga, Jun. Machine for molding thermoplastic synthetic resins. 3,454,989, 7-15-69, Cl. 18-30.
Tagami, Katsutoshi, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Electric generating apparatus. 3,424,974, 1-28-69, Cl. 322-27.
Tager, Alexandr Semnovich: *See—*
Golant, Mikhail Borisovich; Negirev, Alexandr Andreevich; Tager, Alexandr Semnovich; Pobedonostsev, Alexandr Sergeevich; Zjulina, Elena Aristarkhovna; and Samorodova, Galina Alexandrovna,3,436,690.
Taggart, Everett Ray, to Phillips Petroleum Company. Apparatus for preserving biological and like preparations. 3,448,556, 6-10-69, Cl. 53-102.
Taggart, Everett R. Desiccator apparatus including improved vacuum bottle capping arrangement. 3,451,189, 6-24-69, Cl. 53-112.
Taggart, Harriet A. Casing perforating and screen plug setting device. 3,430,711, 3-4-69, Cl. 175-4.52
Taggart, Harriet A. Casing perforating and screen plug setting device. 3,461,977, 8-19-69, Cl. 175-4.5
Taggart, John H.: *See—*
Cox, Arthur S.; and Taggart, John H.,3,471,369.
Taggart, Lawrence T., to Borg-Warner Corporation, mesne. Seat belt retractor. 3,465,983, 9-9-69, Cl. 242-107.11
Taggart, Melvin C. Primer attachment for carburetors. 3,430,933, 3-4-69, Cl. 261-34.
Taggart, Percy Royce, to Challenge-Cook Bros., Incorporated. Transfer trailer drawbar device. 3,420,390, 1-7-69, Cl. 214-38.
Tagiri, Koichi; Iwai, Masuo; and Nikaido, Yoshiwaka, to Yawata Iron & Steel Co., Ltd. Device for charging alloyed iron and secondary raw materials into a steelmaking furnace. 3,435,968, 4-1-69, Cl. 214-35.
Tagliasacchi, Ercole, to Officine Meccaniche Cigardi S.p.A.-O.M.C.S.A. Torque equalizing control arrangement for a series of driven units. 3,452,261, 6-24-69, Cl. 318-77.
Taglieber, Kurt: *See—*
Platz, Rold; Taglieber, Kurt; and Weinfurter, Kurt,3,471,584.
Taglinger, Ludwig: *See—*
Jockers, Kurt; Meier, Hermann; and Taglinger, Ludwig,3,446,587.
Taguchi, Hanzo, to Nippon Gakki Seizo Kabushiki Kaisha. Piano sound board assembly with auxiliary board. 3,444,771, 5-20-69, Cl. 84-194.
Taguchi, Hanzo, to Nippon Gakki Seizo Kabushiki Kaisha. Arrangement for fitting a sounding board assembly in a piano. 3,459,091, 8-5-69, Cl. 84-192.
Taguchi, Hanzo; and Suzuka, Tsuneo, to Nippon Gakki Seizo Kabushiki Kaisha. Perforated support for piano sounding board. 3,472,112, 10-14-69, Cl. 84-192.
Taguchi, Toshio: *See—*
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi,3,457,226.
Tahara, Hideo. Method for molding thermoplastic plastics. 3,449,481, 6-10-69, Cl. 264-99.
Tahara, Sanae, to Asahi Breweries Ltd. Method of making cereal malt. 3,472,737, 10-14-69, Cl. 195-69.
Tahara, Tadasu: *See—*
Suzuki, Reiichi; Takubo, Tadashi; Shioyama, Yutaka; Sakamoto, Kazuhiko; and Tahara, Tadasu,3,471,539.
Tahara, Tadasu; Takubo, Tadashi; and Hachiya, Isao, to Nitto Kasei Co., Ltd. Process for preparing triorganotin halides and bis(triorganotin)oxides. 3,475,473, 10-28-69, Cl. 260-429.7
Tahara, Tetsuya: *See—*
Nakanishi, Michio; Tahara, Tetsuya; and Maruyama, Yutaka,3,426,022.
Tai, Wun T.: *See—*
Kolka, Alfred; Tai, Wun T.; and Mult, Roy H.,3,462,382.
Taien, Morris. Adjustable flush tank valve for water closets. 3,438,064, 4-15-69, Cl. 4-56.
Taillie, Gordon P.: *See—*
Gardner, John F.; Michaels, Thomas B.; and Taillie, Gordon P.,3,473,035.
Taimuty, Samuel I.: *See—*
Softky, Sheldon D.; Taimuty, Samuel I.; and Rubin, Sylvan,3,475,610.
Tainton Company, The: *See—*
Clayton, Erith T., 3,471,308.
Taira, Keon; and Kida, Kazuyoshi, to Teijin Limited. Multiple-twist spindle. 3,475,892, 11-4-69, Cl. 57-58.61
Tairraz, Paul, to Etablissements Carpano and Pons. Adapter for flexible tubing. 3,454,290, 7-8-69, Cl. 285-249.
Taisei Kako Kabushiki Kaisha: *See—*
Saeki, Fumio, 3,465,917.
Tait, David A. G., to Solartron Electronic Group Limited, The. Electrical calculating device for determining the derivatives and standard deviation of a function. 3,458,695, 7-29-69, Cl. 235-193.
Tait Manufacturing Company, The: *See—*
Tremain, David L., 3,437,045.
Tait, Sereno R.: *See—*
Collins, Roy R.; and Tait, Sereno R.,3,458,015.
Taivalkoski, George W.: *See—*
Bramley, Hal F.; Chiplis, Felix A.; Dunkle, David E.; and Taivalkoski, George W.,3,452,572.
Tajima, Atsushi; and Moriya, Shigeru, to Toyota Jidosha Kabushiki Kaisha. Collapsible steering column assembly. 3,461,740, 8-19-69, Cl. 74-492.
Tajima, Masao, to Singer Company, The. Cam selector mechanism in an ornamental stitch sewing machine. 3,469,547, 9-30-69, Cl. 112-158.
Tajima, Mataichi, to Fuji Shashin Film Kabushiki Kaisha. Continuous treating apparatus for sheet material. 3,438,621, 4-15-69, Cl. 271-3.
Tajima, Mataichi; and Kimura, Tutomu, to Fuji Shashin Film Kabushiki Kaisha. Method for controlling the quality of photographic image. 3,462,221, 8-19-69, Cl. 355-77.
Tajima, Sakae; Baba, Nobuyoshi; Matsuyama, Shin; and Ono, Masabumi, to Minolta Camera Kabushiki Kaisha. Method of anodic oxidazation of aluminum. 3,445,349, 5-20-69, Cl. 204-14.
Tajima, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Handrail belt for escalator. 3,463,290, 8-26-69, Cl. 198-16.
Tajon, Incorporated: *See—*
Martin, Marion, 3,482,876.
Tak, Willem, to U.S. Philips Corporation, mesne. Sound reverberation system. 3,484,563, 12-16-69, Cl. 179-100.2
Takabayashi, Toshiaki. Method of producing cement mortar or concrete. 3,429,726, 2-25-69, Cl. 106-89.
Takada, Mituho: *See—*
Yamaguchi, Hiroyuki; and Takada, Mituho,3,436,250.
Takada, Shunsuke, to Matsushita Electronics Corporation. Car alternator semiconductor diode and rectifying circuit assembly. 3,486,083, 12-23-69, Cl. 317-234.
Takada, Takezo. Method and apparatus for making tubes of woven fiber impregnated by a high polymeric compound. 3,437,537, 4-8-69, Cl. 156-149.
Takada, Toshihisa; Ishikawa, Hisao; Tado, Keishi; and Matsui, Yukio, to Fujikura Cable Works, Ltd., The. Method of manufacturing electric insulated wires coated with foamed synthetic resin. 3,481,782, 12-2-69, Cl. 117-232.
Takada, Toshio: *See—*
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji,3,440,035.
Takada, Yuji; and Ogawa, Katsumasa, to Fujitsu Limited. Communication system for transmission of high speed code via low speed channels. 3,482,048, 12-2-69, Cl. 179-15.
Takado, Koichi: *See—*
Goshima, Takeshi; and Takado, Koichi,3,438,315.
Takafuji, Hideo; and Ishida, Tsugio, to Yawata Iron & Steel Co., Ltd. Apparatus for measuring the shape of sheet or strip. 3,470,739, 10-7-69, Cl. 73-159.
Takagawa, Masanori: *See—*
Kobayashi, Yoshichika; Yakeno, Koji; and Takagawa, Masanori,3,461,077.
Takagi, Haruo; and Yamagishi, Yasuo, to Sakai Kasei Kogyo Kabushiki Kaisha, (Sakai Chemical Industry Co., Ltd.). Surface-processing method for synthetic resin sheet. 3,450,585, 6-17-69, Cl. 156-242.

Takagi, Hiromu: *See*—
Iwai, Issei; Ohki, Eiji; Oida, Sadao; and Takagi, Hiromu,3,475,439.
Takagi, Kazumi; and Tsunokawa, Tamio, to Sumitomo Chemical Company, Ltd. Stabilization of acrylamide. 3,475,492, 10-28-69, Cl. 260-561.
Takagi, Kazumi: *See*—
Nakaguchi, Kohei; Kawasumi, Shohachi; Takagi, Kazumi; Fukuba, Kobo; Hirooka, Masaaki; and Fujita, Toshimichi,3,472,824.
Takagi, Kiyoshi; and Wada, Masamichi, to Owens-Illinois, Inc., mesne. Glass ceramic product and method for making same. 3,455,706, 7-15-69, Cl. 106-39.
Takagi, Takeshi: *See*—
Okutsu, Shinkichi; Nariai, Noriyuki; Takagi, Takeshi; and Uchara, Keijiro,3,447,958.
Tuchi, Shoji; and Takagi, Takeshi,3,484,313.
Takagi, Toshijiro: *See*—
Ohashi, Shin-ichi; and Takagi, Toshijiro,3,469,173.
Ohashi, Shin-Ichi; Takagi, Toshijiro; and Abe, Zenmon,3,474,307.
Takahahi, Kozo: *See*—
Murakami, Masuo; Takahahi, Kozo; Matsumoto, Jun; and Iwamoto, Hidenori,3,461,114.
Takahashi, Akio: *See*—
Kanbara, Shu; Takahashi, Akio; Nakano, Masayuki; and Hirose, Toshio,3,431,248.
Takahashi, Akira: *See*—
Takahashi, Kiyoshi; and Takahashi, Akira,3,482,293.
Takahashi, Albert T., to Hi-Shear Corporation. Separable bolt. 3,449,996, 6-17-69, Cl. 85-1.
Takahashi, Chushichi: *See*—
Aikawa, Michinosuke; Kojima, Mirei; and Takahashi, Chushichi,3,430,289.
Takahashi, Hidehiko; Kaga, Shinichiro; and Hirota, Sadao, to Daiichi Seiyaku Company Limited. Method of treating alopecia and novel compositions therefor. 3,466,364, 9-9-69, Cl. 424-70.
Takahashi, Hiroki: *See*—
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako,3,472,932.
Takahashi, Ikuo: *See*—
Chiba, Jiro; Takahashi, Ikuo; and Hasegawa, Yasuhiro,3,472,281.
Takahashi, Jin, to Singer Company, The. Adjustable presser devices for sewing machines. 3,433,193, 3-18-69, Cl. 112-235.
Takahashi, Jukichi: *See*—
Abe, Akira; and Takahashi, Jukichi,3,443,666.
Takahashi, Keiichi, to Horai Tekko Sho Co., Ltd. Pulverizer. 3,459,381, 8-5-69, Cl. 241-67.
Takahashi, Kiyoshi; and Takahashi, Akira. Clip device. 3,482,293, 12-9-69, Cl. 24-255.
Takahashi, Koichi: *See*—
Iwata, Namio; Takahashi, Koichi; Sato, Isao; and Yanagisawa, Sizuyasu,3,454,756.
Takahashi, Kozo: *See*—
Murakami, Masuo; Takahashi, Kozo; and Matsumoto, Jun,3,459,735.
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi,3,476,777.
Murakami, Masuo; Takahashi, Kozo; Murase, Kiyoshi; and Hirata, Yasubumi,3,444,167.
Takahashi, Masahito. Process of cultivating algae. 3,444,647, 5-20-69, Cl. 47-1.4
Takahashi, Masao: *See*—
Akashi, Tsuneo; Takahashi, Masao; and Ohno, Tomeji,3,481,875.
Akashi, Tsuneo; Takahashi, Masao; and Tsubouchi, Norio,3,481,874.
Akashi, Tsuneo; Takahashi, Masao; Tsubouchi, Norio; Ohno, Tomeji; and Yamauchi, Fumio,3,461,071.
Tsubouchi, Norio; Takahashi, Masao; and Akashi, Tsuneo,3,472,778.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo,3,484,377.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo,3,487,019.
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru,3,484,334.
Takahashi, Masayuki: *See*—
Kondo, Shiro; Shiranezawa, Takao; Iida, Hirohiko; and Takahashi, Masayuki,3,482,389.
Takahashi, Minoru; and Ishiwata, Yukio, to Nippon Kogaku K.K. Returning means for the rewinding button in a camera. 3,485,156, 12-23-69, Cl. 95-31.
Takahashi, Miyao; Ito, Yukihiko; Yamada, Katsunori; and Amemiya, Mitsuo, to Kureha Kagaku Kogyo. Method and apparatus for producing bags from tubular film. 3,483,061, 12-9-69, Cl. 156-380.
Takahashi, Nobuhiko; Kokubo, Ryo; Nagakura, Mizuhiko; Koguchi, Mitsuhiro; and Murata, Atsuo, to Nissan Kagaku Kogyo Kabushiki Kaisha. Method for producing melamine. 3,423,410, 1-21-69, Cl. 260-249.7
Takahashi, Nobuyasu: *See*—
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.
Takahashi, Ryosetsu; and Hanzawa, Toru, to Yutaka Seimitsu Kogyo, Ltd. Gear cutting machine for generating hypoid gears. 3,464,312, 9-2-69, Cl. 90-5.
Takahashi, Sadayoshi: *See*—
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro,3,425,359.
Takahashi, Sasuke. Folding table. 3,476,061, 11-4-69, Cl. 108-112.
Takahashi, Shinkichi: *See*—
Tanaka, Hiroshi; Takahashi, Shinkichi; Hasegawa, Tetsuo; and Sato, Toshihiko,3,438,706.
Takahashi, Tetsuo. Electric remote control system for supervising a variable physical magnitude. 3,421,059, 1-7-69, Cl. 318-18.
Takahashi, Tetsuo: *See*—
Tsuchiya, Takeshi; Takahashi, Tetsuo; Yamamoto, Kiyoshi; Yanai, Akito; Takiura, Mikio; and Kano, Toshio,3,472,205.
Takahashi, Toshiyuki: *See*—
Murata, Toshiya; Takahashi, Toshiyuki; and Kobayashi, Yoshiharu,3,469,665.
Takahashi, Yasunobu: *See*—
Ishida, Shin'ichi; Kato, Toshio; Kurihara, Masakazu; Takahashi, Yasunobu; and Fukuda, Hiromichi,3,462,394.
Takahashi, Yasuo: *See*—
Kazamaki, Tomokazu; and Takahashi, Yasuo,3,451,745.
Takahashi, Yasuo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Lens system. 3,459,469, 8-5-69, Cl. 350-223.
Takahashi, Yoshikazu; Kojima, Koujiro; Kahata, Hisashi; and Iwasaki, Iwao, to Fuji Iron & Steel Co., Ltd. Process for treaig nickeliferous ore. 3,453,101, 7-1-69, Cl. 75-2.
Takahashi, Yoshio. Suspended triangular grid roof structure. 3,420,011, 1-7-69, Cl. 52-83.
Takahashi, Yoshiya: *See*—
Miyamoto, Ken; and Takahashi, Yoshiya,3,458,497.
Takahashi, Yukiharu: *See*—
Miyazaki, Yoshihisa; Kubo, Moritada; Takahashi, Yukiharu; and Uetani, Tatsuya,3,436,627.
Takahashi, Yutaro: *See*—
Goto, Michio; Takahashi, Yutaro; and Otohata, Etsuo,3,458,482.
Takahasi, Tadasi: *See*—
Hiraiwa, Masumi; Takahasi, Tadasi; and Fukuda, Wataru,3,459,650.
Takahi, Yukiyoshi: *See*—
Sumi, Hiroji; Takahi, Yukiyoshi; Kondo, Yasuhiko; Hamamoto, Yoshio; and Nishimura, Tsunehiko,3,426,135.
Takahira, Hiroshi: *See*—
Uzu, Keizo; Takahira, Hiroshi; Kato, Hiromasa; Sugiyama, Noriyuki; Haneda, Tomotsune; and Ishii, Sumihiro,3,424,743.
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko, to Toyama Kagaku Kogyo Kabushiki Kaisha. 2-Amino-1,3,4-oxadiazole ring comprising nitrofurans. 3,455,913, 7-15-69, Cl. 260-240.
Takai, Hideo; Hayashi, Shigeru; and Saito, Yoshihiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Device for stopping skein reel at a predetermined position and drawing skein yarn ends. 3,473,747, 10-21-69, Cl. 242-53.
Takai, Shinzo: *See*—
Muroi, Soichi; and Takai, Shinzo,3,487,031.
Takakura, Hiroshi: *See*—
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.
Takakuwa, Yasuo: *See*—
Kokubo, Ryo; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko,3,454,571.
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki, to Dainippon Pharmaceutical Co., Ltd.2-[2-(5-Nitrofuryl)-vinyl]-azoles and process for producing thereof. 3,470,164, 9-30-69, Cl. 260-240.
Takamatsu, Yasuto: *See*—
Ishii, Toshio; Takamatsu, Yasuto; Yurigi, Shojiro; and Masuda, Katsutada,3,483,292.
Takami, Katsumi; Yamada, Yahiko; Suda, Kyo; and Koga, Masashi, to Kabushiki Kaisha Hitachi Seisakusho. Infrared ray detector utilizing ferroelectric single crystal. 3,453,434, 7-1-69, Cl. 250-83.3

Takamichi, Ikuko: *See—*
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko,3,455,913.
Takamizawa, Akira, to Shionogi & Co., Ltd.Furo [2,3-h] thiachromine. 3,478,031, 11-11-69, Cl. 260-256.5
Takamizawa, Akira; and Hamashima, Yoshio, to Shionogi & Co., Ltd.2-Aminofuro[2,3-d]thiazoles and production thereof. 3,454,576, 7-8-69, Cl. 260-256.5
Takamizawa, Minoru: *See—*
Ariga, Kinji; Takamizawa, Minoru; Harada, Haruo; Komiya, Akitoshi; Takaya, Seiki; and Umemura, Mitsuo,3,454,616.
Takamoto, George S. Radiant energy insect trap. 3,465,468, 9-9-69, Cl. 43-113.
Takamura, Masao: *See—*
Ito, Giichi; Takamura, Masao; Kato, Katsuhiro; and Kikuchi, Hisaei,3,431,519.
Takamura, Masao; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisahide; and Mitsuhashi, Sadayuki, to Nippon Telegraph and Telephone Public Corporation. Coordinate switching device embodying electric windings common to columns of magnetic switch elements. 3,487,344, 12-30-69, Cl. 335-112.
Takamura, Masao; Mitsuishi, Shoji; Kato, Katsuhiro; Shinohara, Takeo; Kikuchi, Hisaei; and Mitsuhasi, Sadayuki, to Nippon Telegraph and Telephone Public Corporation, and Nippon Electric Company, Limited. Electromagnetic switching device in coordinate arrays. 3,464,039, 8-26-69, Cl. 335-112.
Takamura, Masayoshi: *See—*
Nakatsuka, Kazuo; Ide, Fumio; and Takamura, Masayoshi,3,448,070.
Takamura, Yoshio: *See—*
Watanabe, Hiroshi; Okuda, Tomoya; and Takamura, Yoshio,3,428,849.
Takano, Eiichi, to Canon Camera Kabushiki Kaisha. Large aperture and wide angle zoom lens system. 3,481,664, 12-2-69, Cl. 350-176.
Takano, Mitsuo: *See—*
Mihara, Kazuhiko; Yamashiki, Takashi; and Takano, Mitsuo,3,432,429.
Takano, Tadayoshi; and Hattori, Kiyoshi, to Fujisawa Pharmaceutical Co., Ltd.7-(α,β-Unsaturated acylamino) cephalosporanic acid and derivatives thereof. 3,453,272, 7-1-69, Cl. 260-243.
Takanohashi, Kunio: *See—*
Honjo, Mikio; Masuda, Toru; Imai, Kinichi; Fujii, Shoichiro; and Takanohashi, Kunio,3,423,399.
Takao, Susumu; and Hokari, Hiroshi, to Japanese Geon Company, Ltd., The. Method for separation of conjugated diolefin by back wash in extractive distillation. 3,436,436, 4-1-69, Cl. 260-681.5
Takao, Susumu; and Hokari, Hiroshi, to Japanese Geon Company, Ltd., The. Process for the separation of conjugated diolefins. 3,436,438, 4-1-69, Cl. 260-681.5
Takao, Zenichiro: *See—*
Shimose, Takaaki; Mori, Kenji; Inoue, Kimio; and Takao, Zenichiro,3,428,472.
Takaoka, Shoji, to Nippon Koatsu Denki Kabushiki Kaisha. Double-fuse circuit. 3,484,653, 12-16-69, Cl. 317-40.
Takaoka, Takashi; and Okabe, Yuji, to Tokyo Shibaura Electric Co., Ltd. Welding device utilizing laser beams. 3,463,898, 8-26-69, Cl. 219-121.
Takarai, Yutaka: *See—*
Hayashi, Shigeki; Sibuya, Tuyosi; Kobayashi, Hideaki; and Takarai, Yutaka,3,482,538.
Takasago Perfumery Co., Ltd.: *See—*
Moroe, Tatsuo; Komatsu, Akira; Matsui, Takeshi; and Ueda, Kuniaki, 3,433,839.
Moroe, Tatsuo; Hattori, Staohiko; Komatsu, Akira; and Muraki, Shigeru, 3,459,556.
Moroe, Tatsuo; Hattori, Satohiko; Komatsu, Akira; Matsui, Takeshi; and Kurihara, Haruki, 3,459,773.
Takasago Perfumery Company Limited: *See—*
Fujita, Koji; Sato, Eisuke; and Moroe, Tatsuo, 3,460,950.
Takasaki, Rinji: *See—*
Tanabe, Katsumi; Hayashi, Ryozo; Morisawa, Yasuhiro; Hashimoto, Teruo; Nakazawa, Tadamasa; and Takasaki, Rinji,3,485,848.
Takasawa, Seigo: *See—*
Tanaka, Masao; Nakamura, Nobuo; and Takasawa, Seigo,3,461,113.
Tanaka, Msao; Nakamura, Nobuo; and Takasawa, Seigo,3,462,415.
Takase, Yoshiyuki: *See—*
Minami, Shinsaku; Fujita, Akio; Shimizu, Masanao; and Takase, Yoshiyuki,3,464,982.
Takamatsu, Hideji; Minami, Shinsaku; Aritomi, Jiro; Fujita, Akio; Fujimoto, Katsuro; Shimizu, Masanao; and Takase, Yoshiyuki,3,470,164.
Takashima, Komei: *See—*
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.
Takashima, Seiichi: *See—*
Kosugi, Tsuneo; and Takashima, Seiichi,3,423,523.
Takasu, Shinichiro: *See—*
Wakatsuki, Masao; Aoki, Toshi; Takasu, Shinichiro; and Wakamatsu, Nobuyuki,3,442,616.
Wakatsuki, Masao; Aoki, Toshio; Wakamatsu, Nobuyuki; and Takasu, Shinichiro,3,436,183.
Takasue, Takashi: *See—*
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo,3,436,323.
Takata, Harry H.: *See—*
Williamson, Archie O.; Takata, Harry H.; and Gfroerer, Gerald T.,3,483,806.
Takata, Hirokichi: *See—*
Asami, Atsumi; Ikee, Eitoku; Nakashima, Eizo; and Takata, Hirokichi,3,430,428.
Takata, Koji, to Sumitomo Electric Industries, Ltd. Disc Brake device for vehicles. 3,450,234, 6-17-69, Cl. 188-73.
Takata, Koji, to Sumitomo Electric Industries, Ltd. Disc brakes having automatic gap adjusting means. 3,455,417, 7-15-69, Cl. 188-73.
Takata, Masaru: *See—*
Kawamura, Saburo; and Takata, Masaru,3,471,594.
Takata, Shinya: *See—*
Kishitaka, Hisashi; Shimamura, Yoshihisa; and Takata, Shinya,3,451,769.
Takata, Toshihiko: *See—*
Wada, Toshiya; Akanuma, Kaneo; and Takata, Toshihiko,3,477,881.
Takata, Toshikatsu: *See—*
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa,3,440,105.
Takata, Victor T.: *See—*
England, Wilbur B.; Pero, John P., III; Siciliano, Gasparo P.; and Takata, Victor T.,3,468,226.
Takata, Victor, to Artisan Industries Inc. Modulating drive for strip-like material. 3,474,945, 10-28-69, Cl. 226-1.
Takatsu, Soukichi: *See—*
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji,3,440,035.
Takatsuka, Kenji; and Toyooka, Shigetsugu, to Japan Storage Battery Co., Ltd. Hermetically encapsulated barrier layer rectifier. 3,441,813, 4-29-69, Cl. 317-234.
Takatsy, Gyula, to Metrimpex Magyar Muszeripari Kulkereskedelmi Vallalat. Appliance for use in chemical analysis. 3,466,153, 9-9-69, Cl. 23-292.
Takauwa, Yasuo: *See—*
Kokubo, Ryo; Takauwa, Yasuo; Koguchi, Mitsuhiro; and Nagakura, Mizuhiko,3,484,440.
Takaya, Seiki: *See—*
Ariga, Kinji; Takamizawa, Minoru; Harada, Haruo; Komiya, Akitoshi; Takaya, Seiki; and Umemura, Mitsuo,3,454,616.
Takayama, Shinichi: *See—*
Lanaka, Tomoharu; Miyamae, Masao; Takayama, Shinichi; Iio, Katsumi; Komatsubara, Tomomitsu; and Soma, Takeshi,3,424,729.
Takayanagi, Kenjiro, to Victor Company of Japan, Limited. Color picture projecting system. 3,450,461, 6-17-69, Cl. 350-161.
Takayanagi, Kenjiro; and Matsuyama, Kihachiro, to Victor Company of Japan, Limited. Color television picture tube having a fluorescent screen with a metal back of thickness to pass incident electrons and to limit the passage of secondary electrons. 3,454,808, 7-8-69, Cl. 313-92.
Takayanagi, Shigetoshi: *See—*
Inoue, Morio; Kano, Gota; Matsuno, Jinichi; and Takayanagi, Shigetoshi,3,480,475.
Yoshioka, Satoshi; and Takayanagi, Shigetoshi,3,442,700.
Takayanagi, Sho, to Asahi Breweries Ltd. Main and after fermentation tank for beer brewery. 3,433,148, 3-18-69, Cl. 99-276.
Takechi, Saburo; and Iio, Kenji, to Tateisi Electronics Co. Electrical sensing apparatus for sensing the presence of a conductive or magnetic object with compensation for supply voltage fluctuations. 3,436,649, 4-1-69, Cl. 324-41.
Takeda, Akira: *See—*
Ameyama, Yoshiaki; and Takeda, Akira,3,428,408.
Takeda Chemical Industries, Ltd.: *See—*
Fujii, Kiyoshi; Asogawa, Tatuo; Yamaguchi, Yoshio; Fujii, Chikaaki; Noguchi, Yukihide; and Funakoshi, Yoshiro, 3,483,831.
Hamada, Yoshio; and Yoshino, Motohisa, 3,439,095.
Hashimoto, Naoto; and Morita, Katsura, 3,441,593.
Hatta, Hiroshi; and Mukai, Hiroshi, 3,470,227.
Hirano, Hiroshi; Masuda, Katsutada; Numata, Mitsuo; and Oka, Yoshikazu, 3,455,956.
Hirano, Hiroshi; Masuda, Katsutada; Kawai, Kiyohisa; and Shimahara, Noboru, 3,465,044.
Honjo, Mikio; Masuda, Toru; Imai, Kinichi; Fujii, Shoichiro; and Takanohashi, Kunio, 3,423,399.
Honjo, Mikio; and Imai, Kin-Ichi, 3,433,783.

Honjo, Mikio; Imai, Kin-Ichi; and Furukawa, Yoshiyasu, 3,444,158.
Hori, Shiro; and Fugono, Takeshi, 3,482,995.
Ishii, Toshio; Takamatsu, Yasuto; Yurigi, Shojiro; and Masuda, Katsutada, 3,483,292.
Kamada, Masaki; and Okauchi, Tetsuo, 3,425,838.
Matsui, Yutaka; Hashimoto, Norishige; and Mise, Nritoshi, 3,480,567.
Matsui, Yutaka; and Goto, Jugo, 3,487,080.
Mima, Hiroyuki; Noda, Etsunosuke; and Banba, Hiroto, 3,456,051.
Miyano, Seiji; and Kase, Yoshitoshi, 3,471,501.
Miyazawa, Homare; Tarui, Shoichi; Kamada, Masaki; and Masuda, Hiroshi, 3,465,721.
Nakajima, Nobuo; Miyata, Koichi; Wada, Shyozo; and Shimazono, Hirao, 3,443,969.
Nishikawa, Yoshimasa; and Hayami, Toshio, 3,472,735.
Nomura, Hiroaki; Sugimoto, Keiichi; and Uno, Norihiro, 3,427,315.
Ogura, Junji; Mise, Noritoshi; Yokoo, Makoto; and Hatanaka, Yoshihiro, 3,478,089.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,444,186.
Senda, Shigeo; Fujimura, Hajime; and Izumi, Hiroshi, 3,430,258.
Takemoto, Tsunematsu, 3,466,175.
Tanabe, Hideo, 3,446,585.
Tanabe, Hideo; and Sano, Yasuo, 3,462,527.
Tsurushima, Masaaki; and Yatani, Kozo, 3,472,850.
Ueno, Kenzo; and Sato, Yuko, 3,438,922.
Ueyanagi, Jisaburo; Iwasaki, Hidesuke; Kamiya, Takaaki; and Oka, Osamu, 3,444,187.
Yamamura, Yuichi; and Ishiyama, Taro, 3,452,144.
Yotsuzuka, Masaru; Keshi, Akizo; Hashimoto, Norishige; Kodama, Katsuhisa; and Nakahara, Shigenobu, 3,433,751.

Takeda, Eisuke: *See—*
Suzuki, Shigetoshi; and Takeda, Eisuke,3,470,472.

Takeda, Keiichi, to Momotoshi Watanabe, mesne. Mixed solvent solution of polymer for paper treatment. 3,479,213, 11-18-69, Cl. 117-155.

Takeda, Michio, 20% to Kunik, I. Jordan. Hydraulic regulating system and apparatus. 3,460,436, 8-12-69, Cl. 91-3.

Takeda Pharmaceutical Industries, Ltd.: *See—*
Hatta, Ryozo; Kinugawa, Jiro; Yamamoto, Hiroichi; Sumina, Ikuo; Tamura, Bunzo; and Suzuki, Shigekazu, 3,458,638.

Takeda Riken Industry Company Limited: *See—*
Husimi, Kazuo, 3,426,182.

Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao. Method for polymerization of vinyl compounds. 3,477,999, 11-11-69, Cl. 260-78.5

Takehara, Zenichiro: *See—*
Hine, Fumio; Takehara, Zenichiro; and Yoshizawa, Shiro,3,481,847.

Takei, Kenzo. Reed relay having contacts constructed to prevent chattering. 3,462,718, 8-19-69, Cl. 335-154.

Takekawa, Tatsuya: *See—*
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo,3,436,323.

Takematsu, Tetsuo: *See—*
Tamura, Saburo; Takematsu, Tetsuo; Oyamada, Kozo; and Jojima, Teruomi,3,427,146.

Takemi, Kiyoji; and Negishi, Tokuji, to Teikoku Dempa Co., Ltd. Four-track and eight-track cartridge tape recorder with automatic head indexing. 3,484,110, 12-16-69, Cl. 274-4.

Takemoto, Tsunematsu, to Takeda Chemical Industries, Ltd. Seasoning compositions containing tricholomic acid and ibotenic acid as flavor enhancers. 3,466,175, 9-9-69, Cl. 99-140.

Takemoto, Tsunematsu; Ogawa, Shuntaro; and Nishimoto, Nobushige, to Rohto Pharmaceutical Co., Ltd. Method for producing inokosterone and iso- inokosterone. 3,433,814, 3-18-69, Cl. 260-397.25

Takemoto, Yoshiharu: *See—*
Azakami, Shinji; Kawakami, Toshio; and Takemoto, Yoshiharu,3,484,193.

Takemura, Katsumi, to Hitachi, Ltd. Analog computing circuits for absolute values. 3,426,186, 2-4-69, Cl. 235-197.

Takemura, Naomichi: *See—*
Furukawa, Junji; Kawabata, Nariyoshi; Nakaniwa, Mikio; Kawasaki, Akihiro; Kameoka, Iwao; Takemura, Naomichi; Ohashi, Hitoshi; and Nishiyama, Tsuneto,3,455,847.

Takenaka, Haruo; Ooba, Seichi; Ikeda, Teppei; and Adachihara, Shynich, to Fuji Shashin Film Kabushiki Kaisha. Method of subbing a photographic film. 3,475,193, 10-28-69, Cl. 117-34.

Takenaka, Hirofumi. Method of manufacturing a beaded cloth and beaded cloth manufactured thereby. 3,484,319, 12-16-69, Cl. 156-297.

Takenaka Komuten Company, Limited: *See—*
Hida, Naoto; Kaiden, Muneyuki; Muraoka, Noboru; and Otsubo, Hideo, 3,456,405.

Takenaka, Shigeo: *See—*
Yamaguchi, Goichi; and Takenaka, Shigeo,3,454,630.
Yamaguchi, Goichi; and Takenaka, Shigeo,3,471,556.

Takenishi, Tadao: *See—*
Yamada, Yoshitaka; Kumashiro, Izumi; Takenishi, Tadao; and Suzuki, Katsumi,3,468,901.
Yamazaki, Akihiro; Meguro, Takashi; Kumashiro, Izumi; and Takenishi, Tadao,3,454,559.

Takeno, Shozo: *See—*
Takeuchi, Koichi; Shikama, Asao; and Takeno, Shozo,3,426,310.

Takeo Kagitani: *See—*
Kuratomi, Tatsuo, 3,440,721.
Kuratomi, Tatsuo, 3,464,804.
Kuratomi, Tatsuo, 3,468,119.

Takesada, Masahiko: *See—*
Wakamatsu, Hachiro; Sato, Jiro; Takesada, Masahiko; and Sato, Seiicho,3,445,505.
Wakamatsu, Hachiro; Takesada, Masahiko; and Sato, Jiro,3,420,895.

Takeshi Yamamoto: *See—*
Maruyama, Kunimori, 3,438,274.

Takeshige, Akira: *See—*
Horiuchi, Kotaro; and Takeshige, Akira,3,425,707.
Horiuchi, Kotaro; and Takeshige, Akira,3,471,876.

Taketa, Howard H. Refuse retrieving device. 3,451,488, 6-24-69, Cl. 172-350.

Taketomi, Bunsaku. Needle-bar device with double needle action in fancy-stitching sewing machine. 3,438,347, 4-15-69, Cl. 112-158.

Takeuchi, Hideo: *See—*
Aoki, Koichi; Yamatani, Noboru; and Takeuchi, Hideo,3,464,333.

Takeuchi, Koichi; Shikama, Asao; and Takeno, Shozo, to Tokyo Shibaura Electric Co., Ltd. Electrical connector. 3,426,310, 2-4-69, Cl. 339-17.

Takeuchi, Koso: *See—*
Suzuki, Shizuo; and Takeuchi, Koso,3,454,427.

Takeuchi, Makota: *See—*
Seki, Toshimasa; and Takeuchi, Makota,3,487,293.

Takeuchi, Makoto; and Nakagawa, Kazuo, to Nihon Denshi Kabushiki Kaisha. Method of producing gyromagnetic resonance. 3,462,676, 8-19-9, Cl. 324-0.5

Takeuchi, Masao: *See—*
Yamagishi, Hidehisa; and Takeuchi, Masao,3,484,347.

Takeuchi, Rikio: *See—*
Yamada, Kiyoshi; Takeuchi, Rikio; Morimoto, Ikuhisa; and Asano, Tatsuro,3,469,051.

Takeuchi, Shigeo, to Takeuchi Tekko Kabushiki Kaisha. Massaging apparatus. 3,483,862, 12-16-69, Cl. 128-33.

Takeuchi, Shinro, to Mitsui Shipbuilding & Engineering Co., Ltd. Supporting plate for fluidized bed apparatus. 3,463,617, 8-26-69, Cl. 23-284.

Takeuchi, Shin: *See—*
Taoka, Tadami; Furubayashi, Eiichi; and Takeuchi, Shin,3,484,150.

Takeuchi Tekko Kabushiki Kaisha: *See—*
Takeuchi, Shigeo, 3,483,862.

Takeuchi, Toshinobu: *See—*
Aiso, Hiroshi; Nomura, Shunichi; and Takeuchi, Toshinobu,3,469,939.

Takeuchi, Tsugio. Method of removing sulfur dioxide and sulfur trioxide from gases and producing ammonium sulfate therefrom. 3,440,007, 4-22-69, Cl. 23-119.

Takeyasu, Kiyo, to Kabushiki Kaisha Hitachi Seisakusho. Brushless direct-current motor. 3,465,224, 9-2-69, Cl. 318-138.

Takeyasu, Kiyoo; and Numakura, Toshio, to Hitachi Ltd. Brushless D-C servomotor. 3,461,367, 8-12-69, Cl. 318-138.

Takezaki, Tsuneo; Kuroda, Ekiji; and Fukui, Kiyotake, to Matsushita Electric Industrial Co., Ltd. Autotuning radio receiver with frequency holding circuit. 3,447,087, 5-27-69, Cl. 325-422.

Takezawa, Miyozi. Deep hole drilling machine. 3,451,293, 6-24-69, Cl. 77-32.4

Taki, Hiroshige: *See—*
Ochi, Hiroshi; Taki, Hiroshige; Sugimoto, Kimio; Hayase, Yoshimi; and Nakazawa, Bungo,3,420,733.

Taki, Masuo: *See—*
Morita, Toshimitsu; Taki, Masuo; Kaneda, Maomi; and Kohno, Sakae,3,459,020.

Takigawa, Hideaki: *See—*
Itakura, Kiyoshi; and Takigawa, Hideaki,3,450,518.

Takiguchi, Daigaku: *See—*
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa,3,448,195.

Takiguchi, Ryutaro. Dispensing valve suitable for filling a container under low pressure. 3,450,171, 6-17-69, Cl. 141-20.

Takimoto, Masaaki: *See—*
Sato, Masamichi; Honjo, Satoru; and Takimoto, Masaaki,3,476,659.

Takimoto, Shigeru: *See—*
Hagihara, Masaaki; and Takimoto, Shigeru,3,454,840.

Takimoto, Tetuji: *See—*
Shima, Takesaburo; Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Maszo; and Takimoto, Tetuji,3,433,840.
Takiura, Mikio: *See—*
Tsuchiya, Takeshi; Takahashi, Tetsuo; Yamamoto, Kiyoshi; Yanai, Akito; Takiura, Mikio; and Kano, Toshio,3,472,205.
Takizawa, Haruki; and Kitamura, Akitomo, to Teijin Limited. Method of drawing a polyester tow and apparatus therefor. 3,450,811, 6-17-69, Cl. 264-290.
Takizawa, Yu; Ikeda, Minoru; and Tojima, Shoji, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for explosive bonding of metals. 3,474,520, 10-28-69, Cl. 29-470.1
Takubo, Sadao. Machine for manufacturing lens molds for eyeglasses. 3,459,085, 8-5-69, Cl. 83-410.
Takubo, Tadashi: *See—*
Suzuki, Reiichi; Shioyama, Yutaka; and Takubo, Tadashi,3,475,472.
Suzuki, Reiichi; Takubo, Tadashi; Shioyama, Yutaka; Sakamoto, Kazuhiko; and Tahara, Tadasu,3,471,539.
Tahara, Tadasu; Takubo, Tadashi; and Hachiya, Isao,3,475,473.
Takuma Boiler Mfg., Co., Ltd.: *See—*
Fujiwara, Goro; Oda, Takeshi; Todo, Nobuyoshi; and Yajima, Yukio, 3,436,342.
Takuma, Zenzaburou: *See—*
Suzuki, Motohiko; Khriyama, Osamu; Aoyama, Kazumi; and Takuma, Zenzaburou,3,439,462.
Talaat, Mostafa E.: *See—*
Shih, Cheng; Parr, Elmer D.; Stephenson, R. Rhoads; and Talaat, Mostafa E.; said,3,423,610.
Talambiras, Robert P.: *See—*
Lucas, Paul G.; and Talambiras, Robert P.,3,470,487.
Talarovich, Thomas J.: *See—*
McGill, Robert; Talarovich, Thomas J.; and Stowell, Finch,3,485,347.
Talash, Alvin W.: *See—*
Cook, Evin L.; and Talash, Alvin W.,3,434,541.
Talboom, Frank P., Jr.; and Petrusha, John A., to United Aircraft Corporation. Coated nickel-base and cobalt-base alloys having oxidation and erosion resistance at high temperatures. 3,477,831, 11-11-69, Cl. 29-195.
Talbot, Albert K. Cantilever clamp for scaffold ledger. 3,420,334, 1-7-69, Cl. 182-229.
Talbot, Albert M.: *See—*
Tingquist, Stanley C.; Talbot, Albert M.; and Hagedorn, William H.,3,460,604.
Talbot, Alfred B.: *See—*
Hartbauer, Ellsworth A.; Talbot, Alfred B.; and Weis, Rudolf R.,3,433,136.
Talbot, Belle O., executrix of the estate of said: *See—*
Talbot, Samuel A.; Harrison, Walter K.; Talbot, Belle O., executrix of the estate of said; Talbot, Samuel A., deceased said; and Harrison, Walter K.; assors.,3,481,324.
Talbot, Edward B., to Cooling Development Ltd. Fans. 3,480,373, 11-25-69, Cl. 416-226.
Talbot, Frank D. F., to Esso Research and Engineering Company. Controlling the proportioning of blended fluids. 3,434,488, 3-25-69, Cl. 137-90.
Talbot, George C. A.: *See—*
Linkens, Derek Arthur; and Talbot, George C. A.,3,438,013.
Talbot, Michael W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,466,570.
United States of America,National Aeronautics and Space Administration, Administrator, 3,437,903.
Talbot, Samuel A. said: *See—*
Talbot, Samuel A.; Harrison, Walter K.; Talbot, Belle O., executrix of the estate of said; Talbot, Samuel A., deceased said; and Harrison, Walter K.; assors.,3,481,324.
Talbot, Samuel A.; Harrison, Walter K.; Talbot, Belle O., executrix of the estate of said; Talbot, Samuel A., deceased said; and Harrison, Walter K.; assors., to John Hopkins University, The. Ballistocardiograph apparatus. 3,481,324, 12-2-69, Cl. 128-2.05
Talbot, Yorck Joachim. Outside rearview mirror assembly for automotive vehicles and the like. 3,474,998, 10-28-69, Cl. 248-483.
Talbott, John W., to Potlatch Forests, Inc. Method for assembling wooden T and I beams. 3,477,485, 11-11-69, Cl. 144-319.
Talcott, James, Inc.: *See—*
Fusco, Ralph L., 3,487,447.
Hovekamp, John C., 3,481,590.
McDonald, John J., 3,486,426.
Porter, Clive H., 3,480,223.
Smiltens, Oskar, 3,486,748.
Talcott, Ruth Carlson: *See—*
Preist, Donald H.; and Talcott, Ruth Carlson,3,448,413.
Talcjkinski, Wulf: *See—*
Brion, Jacques; Cousin, Michel; Talcjkinski, Wulf; and Volk, Andre,3,479,800.
Talet, Pierre, to Nobel-Bozel. Sizing compositions containing acrylamide and dimethylolated acetylene mono-ureine. 3,427,122, 2-11-69, Cl. 8-116.3
Talet, Pierre, to Nobel-Bozel. Thermosetting acrylc lacquers. 3,444,124, 5-13-69, Cl. 260-33.4
Talet, Pierre; and Behar, Robert, to Nobel-Bozel. Acrylamido-N-glycolic acid and methylol derivative. 3,422,139, 1-14-69, Cl. 260-534.
Talet, Pierre; and Gandon, Louis, to Nobel-Bozel. Reactive dressings intended to render cellulose fabrics uncreasable. 3,429,651, 2-25-69, Cl. 8-116.3
Talley, James E., Jr.; Spraker, Wilbur A., Jr.; and Elderkin, Richard L., to Scott Paper Company. Rotary cylinder dryer. 3,473,238, 10-21-69, Cl. 34-125.
Talley, Robert M.: *See—*
Kuhn, Jackson G.; and Talley, Robert M.,3,425,768.
Talley, Walter J., Jr., to SWECO, Inc. Plural deck center discharge separator. 3,485,363, 12-23-69, Cl. 209-240.
Tallian, Tibor E.; and Sibley, Lewis B., to SKF Industries, Inc. Elastohydrodynamic sliding bearings. 3,421,799, 1-14-69, Cl. 308-121.
Tallian, Tibor E.; and Sibley, Lewis B., to SKF Industries, Inc. Elastohydrodynamic sliding bearings. 3,484,143, 12-16-69, Cl. 308-121.
Tallmadge, Guy Kasten, to American Institutes for Research. Teaching device. 3,477,145, 11-11-69, Cl. 35-19.
Tallving, Bo Germund, to Stal Refrigeration Aktiebolag. Device for cutting ice rods into short pieces. 3,470,783, 10-7-69, Cl. 83-672.
Tally Corporation: *See—*
Tobey, Richard, 3,478,985.
Tally, Sidney K.; Dahlgren, Victor F.; and Stearns, Thomas H., to Electro-Mechanisms, Inc. Dimensionally stable flexible laminate and printed circuits made therefrom. 3,433,888, 3-18-69, Cl. 174-68.5
Tally, Sidney K.; and Stearns, Thomas H., to Sanders Associates, Inc. Printed circuit terminations and methods of making the same. 3,446,908, 5-27-69, Cl. 174-68.5
Talmage, Charles Robert, to Motor Wheel Corporation. Apparatus for compacting a metal powder brake track. 3,445,893, 5-27-69, Cl. 18-36.
Talmage, Charles Robert. Method of producing wrought high purity steels by powder metallurgy. 3,460,940, 8-12-69, Cl. 75-201.
Talmage, Jay W.: *See—*
Scheublein, William A., Jr.; Fister, Louis; McNeely, James A.; and Talmage, Jay W.,3,470,721.
Talon, Inc.: *See—*
Gwyn, Childress B., Jr., 3,460,218.
Manning, Harry F., 3,449,803.
Talty, Robert D., to Tee-Pak, Inc. Method of preparing an edible tubular collagen casing. 3,425,846, 2-4-69, Cl. 99-176.
Talty, Robert D., to Tee-Pak, Inc. Method of preparing an edible tubular collagen casing. 3,425,847, 2-4-69, Cl. 99-176.
Talty, Robert D., to Tee-Pak, Inc. Method of preparing an oil-treated edible collagen sausage casing. 3,446,633, 5-27-69, Cl. 99-175.
Talvalkar, Shashikant G., to National Cash Register Company, The. Heat-sensitive record material. 3,445,261, 5-20-69, Cl. 117-36.9
Tam, Thomas K.; and Lea, James M., 'Automatic' Sprinkler Corporation of America. Means for limiting temperature rise due to abrupt alteration of the flow rate of gas under high pressure through a conduit. 3,468,345, 9-23-69, Cl. 138-38.
Tama, Mario, to Ajax Magnethermic Corporation. Coreless chip melting furnaces. 3,463,864, 8-26-69, Cl. 13-33.
Tama, Mario; and Ross, Nicholas V., to Ajax Magnethermic Corporation. Apparatus for induction heating of slabs. 3,485,983, 12-23-69, Cl. 219-10.57
Tamachi Denki Kabushiki Kaisha: *See—*
Kato, Tsutomu, 3,436,356.
Tamaker Corporation: *See—*
Walker, Robert Emmett; and Walker, Donald Lee, 3,469,530.
Tamaki, Kunio: *See—*
Iwashita, Katsumi; Yoshimura, Masasuke; Miyazaki, Seizaburo; and Tamaki, Kunio,3,481,495.
Tamaki, Nobuo: *See—*
Shimizu, Keiichi; Takekawa, Tatsuya; Tamaki, Nobuo; Takasue, Takashi; Suemoto, Toshio; and Mase, Kazuo,3,436,323.
Tamalet, Michel: *See—*
Bloch, Claude; Gosse, Gerard; and Tamalet, Michel,3,470,397.
Tamalet, Michel, to Societe Anonyme Heurtey. Sand circulation oven for ball-shaped products. 3,477,703, 11-11-69, Cl. 263-40.
Tamar Electronics Industries, Inc.: *See—*
Apitz, Peter F., 3,438,023.
Tamarin, Bernard J., 1/3 each to McClure, Charles A., and Cutler, Morris. Lighter with gravity oriented safety mechanism. 3,450,143, 6-17-69, Cl. 137-38.
Tamaru, Keikichi; and Sugawara, Mutuo, to Tokyo Shibaura Electric Co., Ltd. High speed counter device. 3,452,186, 6-24-69, Cl. 235-92.
Tamaru, Munetaka, to Citizen Tokei Kabushiki Kaisha. Regulator of timepiece. 3,429,119, 2-25-69, Cl. 58-113.
Tamazawa, Kazuharu: *See—*
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi,3,476,777.

Tambert, John. Automatic electric control systems. 3,431,430, 3-4-69, Cl. 307-39.
Tamblyn, John W.: *See—*
Newland, Gordon C.; and Tamblyn, John W.,3,464,943.
Newland, Gordon C.; Greear, George R.; and Tamblyn, John W.,3,454,510.
Tamborski, Christ: *See—*
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ,3,481,872.
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ,3,483,129.
Holland, Dewey G.; and Tamborski, Christ,3,440,277.
Tamborski, Christ, to United States of America, Air Force. 4-Thiol-2,3,5,6-tetafluoro- benzoic acid. 3,459,794, 8-5-69, Cl. 260-516.
Tamborski, hrist, to United States of America, Air Force. Vapor deposition from perfluoroorganometallic compounds. 3,437,516, 4-8-69, Cl. 117-107.2
Tamburasov, Zrinka: *See—*
Djokic, Slobodan; and Tamburasov, Zrinka,3,478,014.
Tamburro, Peter J.: *See—*
Spiegel, Walter J.; and Tamburro, Peter J.,3,432,612.
Tamco Limited: *See—*
Kucther, Siegfricd, 3,450,087.
Tamer Electronics Industries, Inc.: *See—*
Cress, Vernor B., Jr.; and Schmidt, Jack W., 3,483,508.
Tamer, Ergun: *See—*
Hendricks, Udo Winfried; Tamer, Ergun; Quaedvlieg, Mathieu; Klapper, Hans; Boehmke, Gunther; and Schneider, Otto,3,451,762.
Tames, Daniel, to Dowling Textile Manufacturing Company. Ventilating curtain. 3,438,422, 4-15-69, Cl. 160-237.
Tamm, Rudolf: *See—*
Schlegel, Wolfgang; Schwieter, Ulrich; and Tamm, Rudolf,3,458,637.
Tammel, Karl Vinzenz, to Entwicklungsring Sud GmbH. Extendable wing flap arrangement for airplanes. 3,438,598, 4-15-69, Cl. 244-42.
Tamminen, Pentti J., to Oy Airam Ab. Electrode arrangement in high energy galvanic batteries. 3,443,994, 5-13-69, Cl. 136-69.
Tamny, Simon, to Wayne Manufacturing Company. Streesweeper vacuum pickup head assembly. 3,436,788, 4-8-69, Cl. 15-340.
Tamosauskas, Albert E.: *See—*
Marzocchi, Alfred; and Tamosauskas, Albert E.,3,424,608.
Tamper, Inc.: *See—*
Stewart, John K., 3,435,779.
Stewart, John Kenneth, 3,455,249.
Tamplen, Jack W.: *See—*
Brown, Norman F.; Tamplen, Jack W.; and Meaux, Dudley Joseph,3,420,095.
Tamur, Kihachi; Nakajima, Isao; and Inouc, Kaname, to Shin-Etsu Chemical Industry Co., Ltd. Organosilicon compounds and the method of manufacturing urethane foam by the use of the said compounds. 3,461,148, 8-12-69, Cl. 260-448.8
Tamura, Bunzo: *See—*
Hatta, Ryozo; Kinugawa, Jiro; Yamamoto, Hiroichi; Sumina, Ikuo; Tamura, Bunzo; and Suzuki, Shigekazu,3,458,638.
Tamura, Gakuzo: *See—*
Arima, Kei; Tamura, Gakuzo; Narasaki, Teiiti; Nakamura, Yoshio; and Saiki, Takashi,3,431,175.
Tamura, Hajime, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for preventing cracking of machine parts. 3,469,305, 9-30-69, Cl. 29-527.4
Tamura, Hifumi; and Kimura, Hirokazu, to Hitachi, Ltd. Electron beam evaporator. 3,467,057, 9-16-69, Cl. 118-49.1
Tamura, Hifumi: *See—*
Kimura, Hirokazu; Tamura, Hifumi; Maki, Michiyoshi; and Higuchi, Hisayuki,3,474,245.
Tamura, Michio, to Sony Corporation. Method of making color screen for cathode ray tube. 3,451,812, 6-24-69, Cl. 96-36.1
Tamura, Michio; and Nakamura, Yoshi, to Sony Corporation. Cathode ray tube color screen and method of producing same. 3,440,080, 4-22-69, Cl. 117-33.5
Tamura, Michio: *See—*
Yamada, Masami; Tamura, Michio; and Adachi, Hiroshi,3,437,482.
Tamura, Moriyosi: *See—*
Murase, Tamotsu; Mikami, Ichiro; and Tamura, Moriyosi,3,479,399.
Tamura, Nobuhiro: *See—*
Kominami, Naoya; Nakajima, Hitoshi; and Tamura, Nobuhiro,3,433,820.
Tamura, Ryoji; and Morita, Hideo, to Nippon Electric Company, Limited. Automatic frequency control circuit with phase discriminator. 3,457,521, 7-22-69, Cl. 331-9.
Tamura, Saburo; Takematsu, Tetsuo; Oyamada, Kozo; and Jojima, Teruomi, to Sankyo Company Limited. Phenoxypyridazines as herbicides. 3,427,146, 2-11-69, Cl. 71-76.
Tamura, Shigeo: *See—*
Suzuki, Kensei; Tamura, Shigeo; Kawachi, Yoshinori; and Nagafuji, Naohiro,3,477,550.
Tamura, Takaaki. Adsorption process for gas separation. 3,473,296, 10-21-69, Cl. 55-68.
Tamura, Yasuo. Seat with a movable headrest. 3,462,193, 8-19-69, Cl. 297-410.
Tamura, Yasuya: *See—*
Gray, Alvin N.; Tamura, Yasuya; Shibata, Kojiro; and Nakayama, Reikichi,3,455,752.
Tamura, Zensuke; and Hishinuma, Yukio, to Hitachi, Ltd. Method and apparatus for desulfurizing combustion waste gases. 3,473,297, 10-21-69, Cl. 55-73.
Tamura, Zensuke; and Hishinuma, Yukio, to Hitachi, Ltd. Process and apparatus for the desulfurization of industrial waste gases. 3,486,852, 12-30-69, Cl. 23-168.
Tanabe, Hideo, to Takeda Chemical Industries, Ltd. Aluminum Compounds and the preparation thereof. 3,446,585, 5-27-69, Cl. 23-143.
Tanabe, Hideo; and Sano, Yasuo, to Takeda Chemical Industries, Ltd. Fungicidal compositions of basic copper sulfate. 3,462,527, 8-19-69, Cl. 424-128.
Tanabe, Katsumi; Hayashi, Ryozo; Morisawa, Yasuhiro; Hashimoto, Teruo; Nakazawa, Tadamasa; and Takasaki, Rinji, said Hashimoto and said Nakazawa assors to Sankyo Company Limited. 6β-Alkoxy-10β-carboxyl-3α,5-cyclosteroids. 3,485,848, 12-23-69, Cl. 260-397.1
Tanabe, Katsumi: *See—*
Shirasaka, Makoto; Naito, Atsushi; and Tanabe, Katsumi,3,475,275.
Tanabe, Koji: *See—*
Mori, Tadamichi; and Tanabe, Koji,3,422,738.
Mori, Tadamichi; and Tanabe, Koji,3,474,713.
Tanabe Seiyaku Co., Ltd.: *See—*
Chibata, Ichiro; Kakimoto, Toshio; and Kato, Joji, 3,458,400.
Okada, Shigetaka; and Ono, Masayuki, 3,484,255.
Sakakibara, Shumpei, 3,445,447.
Shirakura, Toshio; Yoshikawa, Hiroshi; Shibasaki, Masataka; and Hongo, Chikara, 3,478,055.
Sugimoto, Norio; Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, 3,440,279.
Tanabe, Shido: *See—*
Matsuo, Ryota; and Tanabe, Shido,3,450,806.
Tanaga, Hidenori: *See—*
Doi, Shunichi; Tanaga, Hidenori; and Okumura, Masami,3,426,070.
Tanak Instrument Company: *See—*
Amako, Shigeyuki; and Ohneda, Shoichi, 3,483,411.
Tanaka, Atsushi; and Kudo, Teizo, to Daicel Ltd. Process for the production of shock resisting polymers. 3,465,066, 9-2-69, Cl. 260-880.
Tanaka, Eiji: *See—*
Hayashi, Chisayo; Chiba, Yusuke; Tanaka, Eiji; Ochi, Shigeyuki; Yanagisawa, Yuzuru; and Ayabe, Masaaki,3,469,294.
Tokumoto, Shin-Ichi; and Tanaka, Eiji,3,425,916.
Tanaka, Frederick K., to Micro-Magnetic Industries, Inc. Coin dispenser magazine. 3,435,833, 4-1-69, Cl. 133-2.
Tanaka, Frederick K.; Lawrence, Franklin B.; and Riddle, John B., to Micro-Magnetic Industries, Inc. Bill validator with escrow device. 3,447,655, 6-3-69, Cl. 194-4.
Tanaka, Hideo; and Inagaki, Katsushiro, to Dainichiseika Color & Chemicals Mfg. Co., Ltd. Process for the manufacture of aqueous azo and basic lake pigments. 3,444,157, 5-13-69, Cl. 260-176.
Tanaka, Hideo: *See—*
Ozawa, Goro; Kosaka, Kenzo; Kataoka, Tadashi; Horikawa, Toshio; Adachi, Koyoshi; Tanaka, Hideo; Kitagawa, Hiroshi; and Aoki, Akira,3,458,987.
Tanaka, Hiroshi; Takahashi, Shinkichi; Hasegawa, Tetsuo; and Sato, Toshihiko, to Canon Camera Kabushiki Kaisha. Electrophotographic device. 3,438,706, 4-15-69, Cl. 355-11.
Tanaka, Hisao; and Nishikawa, Isamu, to Hitachi Chemical Company, Ltd. Process for producing unsaturated polyester resins of improved air dry. 3,441,632, 4-29-69, Cl. 260-863.
Tanaka, Hozumi; Hanabusa, Minoru; Goshima, Kazuaki; Unno, Yutaka; and Kajihara, Sadaji, to Shionogi & Co., Ltd. Reactor of the tubular type. 3,450,505, 6-17-69, Cl. 23-285.
Tanaka, Humikazu: *See—*
Seto, Ichiro; Tanaka, Humikazu; Ishii, Yoshio; Nagae, Yuji; and Kitakata, Setsuo,3,449,405.
Tanaka, Ikuo: *See—*
Sekikawa, Yasuhiro; and Tanaka, Ikuo,3,444,076.
Tanaka, Isokazu; and Kurimura, Shizuo. Beam scanning device of sonic or electric wave or the like. 3,465,337, 9-2-69, Cl. 343-11.
Tanaka, Katsunobu; Kimura, Kazuo; Inuzuka, Keiichi; and Tokoro, Yoh, to Kyowa Hakko Kogyo Co., Ltd.Process for producing 5'-inosinic acid. 3,486,980, 12-30-69, Cl. 195-28.
Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, to Kyowa Hakko Kogyo Co., Ltd. Process for producing L-glutamic acid and alpha- ketoglutaric acid. 3,450,599, 6-17-69, Cl. 195-28.
Tanaka, Kazuo; Yoshida, Hirohiko; Kato, Yoshiaki; and Ueda, Hiromi, to Tokei Kabushiki Kaisha. Mechanical vibrator for timepiece. 3,462,939, 8-26-69, Cl. 58-23.
Tanaka, Kozo: *See—*
Ishimoto, Kunio; and Tanaka, Kozo,3,470,485.

Tanaka, Kunihiko: *See*—
Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko,3,428,648.
Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko,3,487,089.
Tanaka, Masao, to Kyowa Hakko Kogyo Co., Ltd. Process for preparing thiamine adenine dinucleotide. 3,474,002, 10-21-69, Cl. 195-28.
Tanaka, Masao; and Nakamura, Nobuo, to Kyowa Hakko Kogyo Co., Ltd. Process for producing flavin-adenine dinucleotide. 3,445,336, 5-20-69, Cl. 195-28.
Tanaka, Masao; Nakamura, Nobuo; and Takasawa, Seigo, to Kyowa Hakko Kogyo Co., Ltd. (Kyowa Hakko Kogyo Kabushiki Kaisha). Process for recovering flavin-adenine dinucleotide. 3,461,113, 8-12-69, Cl. 260-211.3
Tanaka, Masaru; and Yamashita, Akio, to Matsushita Electric Industrial Co., Ltd. Pressure sensitive bilateral negative resistance device. 3,465,176, 9-2-69, Cl. 307-308.
Tanaka, Masaru: *See*—
Yamashita, Akio; and Tanaka, Masaru,3,444,444.
Yamashita, Akio; and Tanaka, Masaru,3,448,350.
Yamashita, Akio; and Tanaka, Masaru,3,461,356.
Tanaka, Michio: *See*—
Hayashi, Takashi; Kondo, Mitsutora; and Tanaka, Michio,3,420,876.
Tanaka, Minako; and Yukami, Susumu, to Lion Dentifrice Co., Ltd., The. Method of preparing precooked dry rice. 3,484,249, 12-16-69, Cl. 99-80.
Tanaka, Msao; Nakamura, Nobuo; and Takasawa, Seigo, to Kyowa Hakko Kogyo Kabushiki Kaisha. Process for purifying flavine adenine dinucleotide. 3,462,415, 8-19-69, Cl. 260-211.5
Tanaka, Noboru, to Kabushiki Kaisha Mitani Valve. Portable miniature sprayer. 3,484,047, 12-16-69, Cl. 239-357.
Tanaka, Nobuo: *See*—
Umezawa, Hamao; and Tanaka, Nobuo,3,428,730.
Tanaka, Nobuyuki: *See*—
Seno, Kenji; Nozawa, Koichi; Tanaka, Nobuyuki; and Kikuchi, Hideyuki,3,431,403.
Tanaka, Norihito, to Lihit Industrial Co., Ltd. Punch. 3,472,101, 10-14-69, Cl. 77-5.
Tanaka, Ryoma; Toyoshima, Kiyoshi; and Ichiki, Eiichi, to Sumitomo Chemical Company, Ltd. Process for producing isobutene and trialkylaluminum of which the alkyl is principally 2-ethylhexyl group. 3,474,121, 10-21-69, Cl. 260-448.
Tanaka, Shigefumi; Ishikawa, Jiro; Matumoto, Tosiaki; and Kovacs, Lajos J., to Yawata Iron & Steel Co., Ltd. Ohio Brass Company, The. Buttress type steel dam for collecting debris Mine roof support. 3,469,403, 9-30-69, Cl. 61-45.
Tanaka, Shigenori: *See*—
Mizuno, Yukio; and Tanaka, Shigenori,3,482,606.
Tanaka, Shuzo: *See*—
Nagai, Torao; Aiura, Masanobu; Tanaka, Shuzo; and Chiba, Shu,3,437,777.
Tanaka, Tadayoshi: *See*—
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko,3,439,410.
Ando, Yoshio; Fujimura, Tadato; Tanaka, Tadayoshi; and Inoue, Yoshihiko,3,439,858.
Tanaka, Takeshi: *See*—
Saito, Ichiro; Saito, Kazuo; and Tanaka, Takeshi,3,446,873.
Tanaka, Tameo, to Kabushiki Kaisha Yaskawa Denki Seisakusho. Apparatus for controlling the electro-parametric oscillation phase. 3,476,952, 11-4-69, Cl. 307-88.
Tanaka, Tatsuo; Gotoh, Keishi; and Kajiura, Hiroshi. Measuring method of the particle size for powder and grain. 3,478,599, 11-18-69, Cl. 73-432.
Tanaka, Toshio. Method of automatically examining railway tickets. 3,486,600, 12-30-69, Cl. 194-4.
Tanaka, Toshio: *See*—
Yamamoto, Mititaka; Mizuta, Yukio; Tanaka, Toshio; and Asada, Takeo,3,443,675.
Tanaka, Tsutomu; Tokuzumi, Tadaichi; and Fujimura, Hiroshi, to Mitsui Petrochemical Industries, Ltd. Process for the polymerization of olefins. 3,449,309, 6-10-69, Cl. 260-88.2
Tanaka, Yoshio: *See*—
Suzuki, Yoshihisa; and Tanaka, Yoshio,3,432,716.
Tsuyama, Tomotsugu; and Tanaka, Yo,3,480,357.
Tanaka, Yukio; Soya, Katsuji; and Yamagishi, Hitoshi, to Kokusai Denki Kabushiki Kaisha, (known as Kokusai Electric Co., Ltd.). Heating method for local annealing or stress relieving of parts of metal articles. 3,480,486, 11-25-69, Cl. 148-18.
Tanaka, Yusaku: *See*—
Ando, Satoshi; Tanaka, Yusaku; and Ogata, Fumimaro,3,458,390.
Tancredi, John J.; and Zotter, Bruno W., to United States of America, Army. O-type travelin wave tube amplifier having means for counteracting the modulation of the spent beam in the collector electrode region. 3,433,992, 3-18-69, Cl. 315-3.6
Tandberg, William E. Sound to color transducer. 3,473,429, 10-21-69, Cl. 84-464.
Tandy Leather Company: *See*—
Roth, Louis C., 3,444,908.
Tandy, Thomas K., Jr.: *See*—
Raynolds, Stuart; and Tandy, Thomas K., Jr.,3,438,925.
Raynolds, Stuart; and Tandy, Thomas K., Jr.,3,462,296.
Tang, Chung-Liang: *See*—
Statz, Hermann; and Tang, Chung-Liang,3,456,210.
Tang, Donald T., to International Business Machines Corporation. Coding circuits for data transmission systems. 3,427,444, 2-11-69, Cl. 235-154.
Tangeman, Lawrence N.; and Williams, Warren W., to Dempster Industries, Inc. Centrifugal pump sealing system for viscous abrasive liquids. 3,477,385, 11-11-69, Cl. 103-111.
Tanges, John H., Jr., to Florida General Electronics, Inc. Shielded cable termination. 3,452,318, 6-24-69, Cl. 339-97.
Tangorra, Giorgio, to Superga S.p.A. Ski shoe. 3,439,434, 4-22-69, Cl. 36-2.5
Tanguay, Armand R.: *See*—
Green, Leland D.; Reynolds, Robert W.; Saeger, Waldemar; and Tanguay, Armand R.,3,448,207.
Green, Leland D.; Saeger, Waldemar; and Tanguay, Armand R.,3,445,598.
Saeger, Waldemar; Reynolds, Robert W.; Green, Leland Dale; Tanguay, Armand R.; and Shimabukuro, George T.,3,432,613.
Tanguay, Raymond J., to Emerald Pacific Enterprises, Inc. Baseball bat wrappings. 3,433,481, 3-18-69, Cl. 273-72.
Tanguy, Denis R., to Schlumberger Technology Corporation. Methods and apparatus for improving the resolution of well logging measurements. 3,457,499, 7-22-69, Cl. 324-1.
Tangyes Limited: *See*—
Reynolds, Lionel Arthur, 3,449,910.
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu, to Chiyoda Kako Kensetsu Kabushiki Kaisha. Method of manufacturing alkali dialkylaluminates. 3,454,614, 7-8-69, Cl. 260-448.
Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu, to Chiyoda Kako Kensetsu Kabushiki Kaisha. Asymmetric dialuminoxane derivatives and their preparation. 3,454,615, 7-8-69, Cl. 260-448.
Tani, Kenichi: *See*—
Tashiro, Megumi; Wada, Masamichi; Yamanaka, Toshio; and Tani, Kenichi,3,473,937.
Tanida, Hiroshi; and Muneyuki, Ryonosuke, to Shionogi & Co., Ltd. 2,3-Diamino-5,8-alkano-5,6,7,8-tetrahydronaphthalene compounds. 3,466,330, 9-9-69, Cl. 260-578.
Tanida, Hiroshi; and Tsuji, Teruji, to Shionogi & Co., Ltd. Novel aziridine derivatives and production thereof. 3,445,456, 5-20-69, Cl. 260-239.
Tanida, Hiroshi; and Tsuji, Teruji, to Shionogi & Co., Ltd. Aminonorbornane derivatives. 3,450,743, 6-17-69, Cl. 260-468.
Tanigawa, Koichiro: *See*—
Morita, Hiroshi; Fuse, Motoyosi; Iwasaki, Sadaya; Yamagishi, Hisato; Kawaguchi, Syojiro; and Tanigawa, Koichiro,3,476,976.
Tanigawa, Shizuhiko; Yabuno, Yoshio; Nakamura, Koji; Makamura, Takuji; and Fujimori, Nobuyoshi, to Matsushita Electric Industrial Co., Ltd. Mounting structure for rotating magnetic heads. 3,422,230, 1-14-69, Cl. 179-100.2
Tanigawa, Singo: *See*—
Kometani, Yutaka; Koizumi, Shun; Fumoto, Syozo; Tanigawa, Singo; and Nakajima, Takeaki,3,462,401.
Taniguchi, Kanazu: *See*—
Miyawaki, Hiroshi; and Taniguchi, Kanazu,3,458,650.
Taniguchi, Kanji; Asada, Mitsuo; and Sakimoto, Reiji, to Nippon Soda Kabushiki Kaisha. Substituted benzohydroxamates and their use as acaricides. 3,474,167, 10-21-69, Cl. 424-230.
Taniguchi, Kanji: *See*—
Kano, Saburo; Taniguchi, Kanji; Kaji, Aritsune; Asada, Mitsuo; Takiguchi, Daigaku; Sato, Nobuo; and Noguchi, Teruhisa,3,448,195.
Taniguchi, Kenji; and Oya, Yuichiro, to Hitachi, Ltd. Transistor switching circuit having compensating circuit. 3,450,896, 6-17-69, Cl. 307-218.
Taniguchi, Koichi: *See*—
Okamoto, Atutosi; Taniguchi, Koichi; and Nakano, Yoshiaki,3,467,443.
Taniguchi, Naonori; and Wachi, Akira, to Kabushiki Kaisha Aida Tekkosho. Transfer press system. 3,434,328, 3-25-69, Cl. 72-405.
Taniguchi, Shu: *See*—
Nagata, Nobuyoshi; and Taniguchi, Shu,3,466,266.
Taniguchi, Takuzo: *See*—
Uebayashi, Yuzuru; Sakimoto, Reiji; Ishii, Keiichiro; Asada, Mitsuo; and Taniguchi, Takuzo,3,427,385.
Taniguchi, Toshihiko: *See*—
Kawamura, Hiroshi; Mukaihara, Kozi; Ito, Hiroshi; Akimoto, Kiyoshi; Atsumi, Yaichiro; Taniguchi, Toshihiko; Takahashi, Sadayoshi; and Saito, Ichiro,3,425,359.
Tanikawa, Masaru: *See*—
Inamiya, Tatsuya; Suzuki, Goro; Tanikawa, Masaru; and Matsui, Takao,3,466,390.

Tanimoto, Kenji: *See—*
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,047.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Shigehiro, Kosuke; Kuruma, Hiroshi; and Tanimoto, Kenji,3,465,048.
Tanimoto, Tyrus T.: *See—*
Nickell, Louis G.; and Tanimoto, Tyrus T.,3,482,958.
Nickell, Louis G.; and Tanimoto, Tyrus T.,3,482,961.
Nickell, Louis G.; and Tanimoto, Tyrus,3,482,959.
Tanis, Edward, to Royle, John, & Sons. Accumulator for elongated flexible material. 3,448,938, 6-10-69, Cl. 242-47.09
Taniuchi, Mamoru: *See—*
Kunichika, Sango; Sakakibara, Yasumasa; and Taniuchi, Mamoru,3,454,667.
Tanke, Ullrich, to Siemens Aktiengesellschaft. Method for registering signal pulses ocurring on a signal line in random sequence. 3,483,328, 12-9-69, Cl. 179-7.
Tankersley, James A., to Bendix Corporation, The. Laminated coupling. 3,434,899, 3-25-69, Cl. 156-172.
Tankersley, James A., to Bendix Corporation, The. Laminated tension-torsion tie-bar. 3,460,628, 8-12-69, Cl. 170-160.58
Tanksley, Marcello M. Shielded claw wrench. 3,482,476, 12-9-69, Cl. 81-3.42
Tann Company: *See—*
Kearns, Robert W., 3,422,331.
Kearns, Robert W., 3,483,459.
Tann, David. Intermittent windshield wiper cleaning system. 3,458,889, 8-5-69, Cl. 15-250.12
Tannenberger, Helmut; and Schachner, Herbert, to Compagnie Francais de Raffinage. Combined electrolyte-electrode for fuel cells and method of fabrication. 3,442,713, 5-6-69, Cl. 136-86.
Tannenberger, Helmut; and Schachner, Herbert, to Compagnie Francaise de Raffinage. Process for the production of isotopes. 3,451,911, 6-24-69, Cl. 204-180.
Tanner, David: *See—*
Magat, Eugene Edward; and Tanner, David,3,423,163.
Magat, Eugene Edward; and Tanner, David,3,424,820.
Tanner, De Loss J., deceased0 (by Hellyer, Arthur L.; administrator), to Motorola, Inc. Temperature compensated electron beam focus control system. 3,471,640, 10-7-69, Cl. 178-7.2
Tanner, George E. One-way dispensing valve unit for bottles to prevent refilling thereof. 3,484,819, 12-16-69, Cl. 222-147.
Tanner, Heikki: *See—*
Malmstrom, Rolf Einar; Tanner, Heikki; and Saari, Matti,3,451,804.
Tanner, Henry E.: *See—*
Roth, Ernest E.; and Tanner, Henry E.,3,442,400.
Tanner, Jack B., to Woodman Company, Inc., The. Web former with wear insert. 3,486,424, 12-30-69, Cl. 93-82.
Tanner, James C., Jr. Apparatus for preparing skin grafts. 3,472,228, 10-14-69, Cl. 128-305.
Tanner, Leslie A., to International Standard Electric Corporation. Comparator for determining both the magnitude and the sense of difference in the frequencies of two signals. 3,460,034, 8-5-69, Cl. 324-79.
Tanner, Paul A., Jr. Citrus fruit harvester. 3,483,687, 12-16-69, Cl. 56-328.
Tanner, Philip Henry, to Vosper Limited. Apparatus for ship stabilization. 3,442,243, 5-6-69, Cl. 114-124.
Tanner, Richard C.; and Baldwin, Edward B., Jr., to Fieldcrest Mills, Inc. Fringed towel. 3,425,891, 2-4-69, Cl. 161-61.
Tanner, Robert H.; Cambridge, Ronan M.; and Beresford, Morris M., to Northern Electric Company Limited. Matrix switching of sources and control. 3,470,533, 9-30-69, Cl. 340-166.
Tanner, Robert L.; Jones, Edward M. T.; and Harris, Frank B., Jr., to Control Data Corporation. Multi-hop ramp feed for wire-grid lens antenna. 3,465,343, 9-2-69, Cl. 343-736.
Tanno, Norman J.: *See—*
White, Frank F.; Tanno, Norman J.; and Chipps, Elmer T.,3,480,159.
Tanno, Takeshi; Shibuya, Ikutoshi; and Abo, Masahiro, to Hitachi Chemical Company, Ltd. Compositions for polychloroprene adhesives. 3,446,872, 5-27-69, Cl. 260-845.
Tanno, Yoshikazu: *See—*
Kurihara, Kazunobu; Ichinose, Noboru; Tanno, Yoshikazu; and Yokoyama, Katsunori,3,472,779.
Yokoyama, Katsunori; Ichinose, Noboru; and Tanno, Yoshikazu,3,468,800.
Tano, Tatsuo: *See—*
Imai, Kazutami; Tano, Tatsuo; and Noro, Hiroo,3,433,629.
Tanos, Andrew B., to Kewanee Oil Company. Method of producing polycrystalline photovoltaic cells. 3,480,473, 11-25-69, Cl. 117-217.
Tanqueray, Jacques, to Secim. Machine to stack bars. 3,452,884, 7-1-69, Cl. 214-6.5
Tansky, Michael. Bridge for stringed instruments. 3,483,785, 12-16-69, Cl. 84-307.
Tansley, Donald R., to Pittsburgh Plate Glass Company. Stress inspection apparatus with sine wave modulation of the photo-multiplier tube output. 3,440,430, 4-22-69, Cl. 250-219.
Tansley, Henry W. Magnetic door holder. 3,477,176, 11-11-69, Cl. 49-7.
Tansony, John R. Liquid sampling device. 3,465,595, 9-9-69, Cl. 73-421.
Tansy, Martin F., to Temple University. Method for the treatment of cardiac dysrhythmias with sodium thioglycollate. 3,426,136, 2-4-69, Cl. 424-317.
Tant, Carl O.; Bennett, Edward O.; and Freebairn, Hugh T., to Nalco Chemical Company. Process for destroying micro organisms in agriculture. 3,444,301, 5-13-69, Cl. 424-303.
Tant, Carl O.; Turner, Nan E.; and Bennett, Edward O., to Nalco Chemical Company. Synergistic mixtures for control of slime-forming bacteria and other deleterious micro- organisms and processes using same. 3,470,096, 9-30-69, Cl. 252-8.55
Tantlinger, Keith W., to Fruehauf Corporation. Bolster locking head for securing semitrailer to tractor fifth wheel. 3,464,719, 9-2-69, Cl. 280-438.
Tantlinger, Keith W., to Fruehauf Corporation. Wheel and brake construction. 3,468,584, 9-23-69, Cl. 301-6.
Tantlinger, Keith W., to Fruehauf Corporation. Container stanchion. 3,478,903, 11-18-69, Cl. 214-38.
Tantlinger, Keith W.; and Bauer, Robert H., to Truehauf Corporation. Plug-in wheel. 3,473,819, 10-21-69, Cl. 280-47.32
Tantlinger, Keith W.; Chieger, George; and Hulverson, Adrian F., to Fruehauf Corporation. Door lock. 3,434,751, 3-25-69, Cl. 292-218.
Tantlinger, Keith W.; and Hulverson, Adrian F., to Fruehauf Corporation. Container coupler. 3,456,967, 7-22-69, Cl. 287-2.
Tantraporn, Wirojana; and Yu, Se Puan, to General Electric Company. Regulated nucleating position two-valley electron transfer effect device. 3,482,119, 12-2-69, Cl. 307-299.
Tanz, Ralph D., to Geigy Chemical Corporation. N-2-phenyl-2-(2-hydroxy-1-naphthyl) ethyl-N- substituted amines and salts thereof. 3,452,094, 6-24-69, Cl. 260-570.
Tanzman, Daniel P.: *See—*
Joseph, A David; and Tanzman, Daniel P.,3,471,310.
Tanzman, Daniel P., to Eutectic Welding Alloys Corporation. Welding alloy. 3,450,527, 6-17-69, Cl. 75-170.
Tanzman, Herbert D., to Winslow-Tele-Tronics, Inc. Atmospheric measuring system. 3,447,370, 6-3-69, Cl. 73-170.
Tanzman, Samuel, to Mercury Electric Products Mfg., Corp. Carbon-pile rheostat of the foot operated type. 3,427,545, 2-11-69, Cl. 338-108.
Taoka, Tadami; Furubayashi, Eiichi; and Takeuchi, Shin, to National Research Institute for Metals, Director of. Gonio-microscope. 3,484,150, 12-16-69, Cl. 350-85.
Taormina, Samuel: *See—*
Kersnar, Paul W.; and Taormina, Samuel,3,454,647.
Tapiovaara, Osmo. Packaging material. 3,450,331, 6-17-69, Cl. 229-37.
Taplin, John F. Servocontrolled dual fluid mixing valve having a pair of actuating pistons. 3,444,893, 5-20-69, Cl. 137-625.4
Taplin, Lael B.; Datwyler, Walter F., Jr.; Thompson, Thomas E.; and Madurski, Joseph P., to Bendix Corporation, The. Pneumatic oscillator. 3,457,938, 7-29-69, Cl. 137-82.
Taplin, Ronald H., to International Telephone and Telegraph Corporation. Radio sonobuoy. 3,460,058, 8-5-69, Cl. 340-2.
Taplin, William H., III, to Dow Chemical Company, The. Vapor phase production of polychlorinated compounds. 3,420,833, 1-7-69, Cl. 260-283.
Taplin, William H., III, to Dow Chemical Company, The. Process for 2-chloro-6-(trichloromethyl) pyridine composition. 3,424,754, 1-28-69, Cl. 260-290.
Tapmatic Corporation: *See—*
Johnson, Allan S., 3,472,347.
Tapp, David J.: *See—*
Adams, Andrew O.; Nelsen, Marvin G.; Tapp, David J.; and Schuessler, John C.,3,484,729.
Tapp, James S., to Monsanto Company. Vinyl halide polymers containing vinyl halide polymer compositions containing low density polyethylene. 3,458,468, 7-29-69, Cl. 260-31.8
Tapp, John W. T.: *See—*
Bugg, Alfred Edward, 3,463,002.
Tapp, John William Theodore: *See—*
Bugg, Alfred Edward, 3,475,834.
Tappan Company, The: *See—*
Anderson, Carl L., 3,431,381.
Gilliom, John W., 3,485,229.
Lamb, John T.; and Anderson, Carl L., 3,480,374.
Leedy, James B., 3,474,225.
Meckley, Daniel G., III; and Vonderhaar, Arthur W., 3,423,568.
Perl, Richard L., 3,439,727.
Perl, Richard L., 3,450,851.
Vonderhaar, Arthur W., 3,450,126.
Vonderhaar, Arthur W., 3,454,744.
Tappan, Peter C.: *See—*
Mansfield, Donald L.; and Tappan, Peter C.,3,444,959.
Tappi, Vittorio: *See—*
Debenedetti, Emilio; and Tappi, Vittorio,3,485,663.

Taradash, Samuel; and Chlumecky, Nicholas, to Commercial Shearing & Stamping Company. Shaft and tunnel lining. 3,483,706, 12-16-69, Cl. 61-45.
Taramasso, Marco; and Zerilli, Luigi, to Snam Progetti S.p.A. Method for separating a mixture of organic compounds. 3,443,359, 5-13-69, Cl. 55-67.
Taranto, Frank J.; and Weindel, Herman F., to Mobil Oil Corporation. Wax composition containing ethylene vinyl acetate or ethylene ethyl acrylate and a graft copolymer of ethylene with maleic acid. 3,440,194, 4-22-69, Cl. 260-28.5
Tarantola, Michele. System for the safe anchoring of bombs or containers to a conveying means. 3,430,981, 3-4-69, Cl. 280-179.
Tarao, Ryokichi: *See—*
Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao,3,477,999.
Taraszka, Mildred J.: *See—*
Morozowich, Walter; and Taraszka, Mildred J.,3,426,012.
Tarbox, James Leon, to United States of America, Army. Incinerator with fluid turbulator. 3,464,375, 9-2-69, Cl. 110-7.
Tarbox, James L.; and Lachapelle, David G., to United States of America, Army. Field expedient radioactive waste incinerator. 3,452,690, 7-1-69, Cl. 110-7.
Tarchalski, Edward, to Heinemann Electric (S.A.) Limited. Removable covers. 3,438,536, 4-15-69, Cl. 220-27.
Tarczy, Hornoch, Zoltan, to Rosenberry, W. K.,, doing business as Zeta Research. Digital direct reading high frequency measuring apparatus and method. 3,450,991, 6-17-69, Cl. 324-79.
Tarczy-Hornoch, Zoltan, to Rosenberry, W. K. Multi-state digital interpolating apparatus for time interval measurements. 3,423,676, 1-21-69, Cl. 324-68.
Tarczy-Hornoch, Zoltan, to Rosenberry, W. K., d/b/a Zelta Research, mesne. Pulse sorting apparatus and method. 3,437,940, 4-8-69, Cl. 328-121.
Tarczy-Hornoch, Zoltan, to Rosenberry, W. K., (d.b.a.), Zeta Research. Logic network and method for use in interpolating time interval counters. 3,444,462, 5-13-69, Cl. 324-68.
Tarczynski, Tadeusz: *See—*
Ford, Robert J.; and Tarczynski, Tadeusz,3,455,757.
Tardieu, Pierre. Jack-controlled system for multiple connections. 3,432,797, 3-11-69, Cl. 339-18.
Tareau, Georges Henri, to Tarwil-Rosoflex. Separable element connecting device. 3,430,306, 3-4-69, Cl. 24-230.
Tarex S.A.: *See—*
Imgrund, Heinrich, 3,427,905.
Targ, Russell: *See—*
Harris, Stephen E.; and Targ, Russell,3,444,479.
Tarhan, Mehmet Orhan, to Bethlehem Steel Corporation. Vaporizing and pretreating aromatic hydrocarbon feed stock without polymeriation. 3,448,039, 6-3-69, Cl. 208-255.
Tarhan, Mehmet Orhan, to Bethlehem Steel Corporation. Upgrading of coke oven light oils. 3,449,460, 6-10-69, Cl. 260-672.
Tarkington, Terry Wesley; and Martin, William R., to Monsanto Company. Production of bulked yarns. 3,439,490, 4-22-69, Cl. 57-140.
Tarkowski, Daniel W.: *See—*
Majewski, Theodore E.; and Tarkowski, Daniel W.,3,449,395.
Tarli, Franco: *See—*
Siancsi, Dario; Pasetti, Adolfo; and Tarli, Franco,3,475,457.
Tarlinsky, Isai Vulfovich: *See—*
Niskovskikh, Vitaly Maximovich; Kuruklis, Georgy Leonidovich; Gelfenbein, Evgeny Jukimovich; Tarlinsky, Isai Vulfovich; and Khorev, Viktor Nikolaevich,3,447,588.
Tarman, Paul B.: *See—*
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B.,3,442,619.
Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B.,3,442,620.
Tarmann, Bruno, to Gebr. Bohler & Co., Aktiengesellschaft. Apparatus for the continuous casting of tubular products. 3,467,170, 9-16-69, Cl. 164-282.
Tarmann, Bruno; and Kleinhagauer, Otmar. Process of producing continuous castings of square or circular cross-section. 3,478,809, 11-18-69, Cl. 164-82.
Tarnadi, Csaba: *See—*
Szucs, Laszlo; Tarnadi, Csaba; and Kornycy, Tamas,3,446,189.
Tarneja, Krishan S.: *See—*
Amsterdam, Michael F.; Shaikh, Mohammed S.; and Tarneja, Krishan S.,3,438,120.
Tarneja, Krishan S.; Ernick, Fred G.; and Rossi, Vito A., to Westinghouse Electric Corporation. Manufacture of semiconductor solar cells. 3,460,240, 8-12-69, Cl. 29-572.
Tarneja, Krishan S.; Rossi, Vito A.; and Maddalena, Joseph R., to Westinghouse Electric Corporation. Lightweight solar cell panel structure. 3,457,427, 7-22-69, Cl. 250-239.
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Riel, Robert K.,3,421,943.
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Amsterdam, Michael F.,3,421,94[illegible].
Tarnoff, Sherwin S. Ventilating louver. 3,422,744, 1-21-69, Cl. 98-121.
Tarnopolsky, Jury Matveevich: *See—*
Akunts, Karlen Arminakovich; Kartsev, Alexandr Efimovich; Elchaninov, Ivan Nikiforovich; Tarnopolsky, Jury Matveevich; and Fish, Aron Yakovlevich,3,457,446.
Tarpinian, Haig D.; and Wolczynski, Thaddeus, to Uniroyal, Inc. Hardness Indicating apparatus. 3,485,089, 12-23-69, Cl. 73-78.
Tarpinian, Haiq D.; and Friedmann, Harry, to Uniroyal, Inc. Harmonic signal analyzer system for testing tires. 3,479,867, 11-25-69, Cl. 73-146.
Tarpley, William B., Jr. Thixotropic oxidizer propellant mixtures. 3,449,178, 6-10-69, Cl. 149-17.
Tarpley, William B., Jr., to Aeroprojects Incorporated. Thixotropic liquid propellant compositions with solid storage characteristics. 3,470,040, 9-30-69, Cl. 149-1.
Tarpley, William B., Jr., to Aeroprojects Incorporated. Thixotropic organic liquid propellant compositions with solid storage characteristics. 3,471,344, 10-7-69, Cl. 149-18.
Tarpley, William B., Jr.: *See—*
Smith, Daniel J.; Tarpley, William B., Jr.; and McKinney, Charles Dana, Jr.,3,447,879.
Tarr, Charles O.; and Owen, Louis V., to United States of America, Atomic Energy Commission. Method of producing purified refractory metal and alloy powders. 3,466,203, 9-9-69, Cl. 148-20.3
Tarrats, Charles. Grid electrical interconnecting system. 3,450,950, 6-17-69, Cl. 317-101.
Tarrson, Sidney A. Take-apart simulated facial toy. 3,434,232, 3-25-69, Cl. 46-11.
Tarrson, Sidney A. Take-apart pull toy. 3,439,445, 4-22-69, Cl. 46-17.
Tarsitano, John J. Pocket-sized crico-thyrotomy set. 3,476,113, 11-4-69, Cl. 128-305.
Tartar, Adolphe: *See—*
Buffy, Rene; and Tartar, Adolphe,3,425,398.
Tartavel, Marcel L.: *See—*
Dyke, Stanley J.; and Tartavel, Marcel L.,3,472,169.
Tarter, Ralph E., to General Motors Corporation. Photoactuated solid state ignition system. 3,421,488, 1-14-69, Cl. 123-148.
Tarui, Shoichi: *See—*
Miyazawa, Homare; Tarui, Shoichi; and Kamada, Masaki,3,465,720.
Miyazawa, Homare; Tarui, Shoichi; Kamada, Masaki; and Masuda, Hiroshi,3,465,721.
Tarutani, Satoshi; Nagano, Masashi; and Nakada, Kikunori, to Shimano Kogyo Kabushiki Kaisha. Exposed speed change mechanism of bicycle. 3,453,899, 7-8-69, Cl. 74-217.
Tarwil-Rosoflex: *See—*
Tareau, Georges Henri, 3,430,306.
Tarzian, Sarkes, Inc.: *See—*
Badger, Joe G., 3,438,272.
Badger, Joe G., 3,446,083.
Krepps, James Edgar, Jr., 3,422,687.
Meadows, Stanley R.; Valdettaro, Alarcio A.; and Badger, Joe G., 3,457,379.
Weigel, Morton L., 3,439,127.
Tasaka, Fumio: *See—*
Sugiura, Shotaro; Tasaka, Fumio; Ueno, Haruo; Kono, Minoru; Katagiri, Nobuyuki; and Sakinaga, Nobumasa,3,459,726.
Taschen, Gunter: *See—*
Schutte, Helmut; Taschen, Gunter; and Berger, Karl,3,425,667.
Taschler, Felix. Method and device for ignition outflowing gas for the production of heating flames. 3,486,498, 12-30-69, Cl. 126-413.
Tashilin, Vyacheslav Fedorovich: *See—*
Kuznetsov, Viktor Sergeevich; Belyaev, Evgeny Ivanovich; Tereschenko, Tatiana Petrovna; Pechnikov, Nikolai Alexandrovich; Tashilin, Vyacheslav Fedorovich; Korityssky, Yakov Ilich; and Korncy, Igor Vladimirovich,3,438,191.
Tashima, Kanichi, to Matsushita Electric Industrial Co., Ltd. Receiving apparatus. 3,458,820, 7-29-69, Cl. 325-492.
Tashiro, Kijuro: *See—*
Fukuda, Jun-Ichi; Tashiro, Kijuro; Yamamoto, Akira; and Katsuyama, Akihiko,3,457,244.
Tashiro, Megumi; Wada, Masamichi; Yamanaka, Toshio; and Tani, Kenichi, to Owens-Illinois, Inc., mesne. Method of strengthening Na_2O-Al_2O_3-SiO_2 glass-ceramics with leaded glazes and product. 3,473,937, 10-21-69, Cl. 106-39.
Tashjian, Edward. Iron holder for use on ironing boards and the like. 3,438,605, 4-15-69, Cl. 248-117.1
Tashlick, Irving; and Rosensweig, Alan. Radiation shielding material and method of making same. 3,437,602, 4-8-69, Cl. 252-478.
Tashlick, Irving; Rutter, William H.; and Zak, William J., to Interpace Corporation. Epoxy resin composition and process for preparing same. 3,442,849, 5-6-69, Cl. 260-37.
Tasi, Vasil: *See—*
Goodell, John D.; Ivins, Barbara; Wistrand, John C.; and Tasi, Vasil,3,424,393.
Tasker, Eric W., to Cape Ann Marine Research Company, Inc. Method of cleaning shellfish. 3,471,894, 10-14-69, Cl. 17-48.

Tasker Instruments Corporation: *See—*
Sander, Wendell B.; and Van Den Heuvel, Raymond, 3,440,639.
Tasker, Jonathan: *See—*
Callahan, Francis J., Jr.; Gallagher, Bernard J.; Tasker, Jonathan; and Shufflebarger, Earl D.,3,428,291.
Tasker, Raymond B.: *See—*
Green, David J.; Tasker, Raymond B.; and Davis, Donovan C.,3,450,990.
Tasset, Everett J. Press for making harrow tooth assembly. 3,474,948, 10-28-69, Cl. 227-150.
Tasset, Michel: *See—*
Doquire, Gilbert; and Tasset, Michel,3,434,865.
Tassicker, Owen James; McLean, Kenneth James; and Herceg, Zlatko, to Unisearch Limited. Particle measuring apparatus including constant temperature electrostatic precipitator and resistance measuring chambers. 3,473,118, 10-14-69, Cl. 324-65.
Tassic, Douglas P., to General Electric Company. Flexible one-piece chute. 3,435,937, 4-1-69, Cl. 193-25.
Tassone, Vincent Anthony, to Minnesota Mining and Manufacturing Company. Stabilized color developing solution containing diethylenetriamine pentaacetic acid. 3,462,269, 8-19-69, Cl. 96-55.
Tata, Raymond V.: *See—*
Brouwer, Charles W.; and Tata, Raymond V.,3,446,087.
Brouwer, Charles W.; and Tata, Raymond V.,3,474,975.
Brouwer, Charles W.; Cruickshank, David G.; and Tata, Raymond V.,3,480,128.
Tatar, Alexander, to Micron Etablissement. Drill grinding machine. 3,483,659, 12-16-69, Cl. 51-122.
Tate Architectural Products, Inc.: *See—*
Tate, Donald L., 3,470,663.
Tate, Bryce E., to Pfizer, Chas., & Co., Inc. Novel 2-Substituted-6-methylpyromeconic acids. 3,468,915, 9-23-69, Cl. 260-345.9
Tate, Bryce E.; and Allingham, Robert P., to Pfizer, Chas., & Co., Inc. 2-Vinylpyromeconic acid. 3,468,916, 9-23-69, Cl. 260-345.9
Tate, Bryce E.: *See—*
Morris, Thomas A., Jr.; and Tate, Bryce E.,3,444,143.
Tate, Carl A., to Dresser Industries, Inc. Impregnation apparatus. 3,448,719, 6-10-69, Cl. 118-50.
Tate, Charles R.; and Welles, George M., to Starwell Inc. Motorized surfboard. 3,481,303, 12-2-69, Cl. 115-70.
Tate, Charles W., Sr.; and Rooney, James F. Flexible and transparent lubricant housing for universal joint. 3,423,959, 1-28-69, Cl. 64-32.
Tate, Cilton W.: *See—*
Scruggs, Jack G.; and Tate, Cilton W.,3,426,107.
Tate, Clarence R. Method for making micromagnets. 3,460,248, 8-12-69, Cl. 29-607.
Tate, Donald L., to Tate Architectural Products, Inc. Pedestal unit for access floors. 3,470,663, 10-7-69, Cl. 52-126.
Tate, Gary L.: *See—*
Nathan, Bernard; and Tate, Gary L.,3,432,028.
Tate, Jack F., to Texaco Inc. Composition and method for treating scale. 3,429,824, 2-25-69, Cl. 252-180.
Tate, John M., to ESB Incorporated. Inverter with a saturable inductor. 3,473,104, 10-14-69, Cl. 321-45.
Tate, Louis D.: *See—*
Ritchey, James F.; Tate, Louis D.; and Waddell, Richard E.,3,480,730.
Tateishi, Arthur K. Record player assembly. 3,486,803, 12-30-69, Cl. 312-8.
Tateisi Electronics Co.: *See—*
Abe, Akira; and Hatano, Isao, 3,423,576.
Abe, Akira; and Takahashi, Jukichi, 3,443,666.
Akamatsu, Hiroo; Morita, Takanobu; Kamei, Mikio; and Nozoe, Yasuhiro, 3,479,518.
Horii, Shizuka, 3,480,892.
Ichimori, Masuo; and Ishikawa, Tadayuki, 3,462,769.
Takechi, Saburo; and Iio, Kenji, 3,436,649.
Yamamoto, Mititaka, 3,440,940.
Tatem, William A., to Sprague Electric Company. Method of making a capacitor with an oxygen pervasive and an oxygen impervious electrode. 3,427,697, 2-18-69, Cl. 29-25.42
Tatematsu, Kenzo: *See—*
Kobayashi, Tsuneo; Tatematsu, Kenzo; Yoshimura, Koichi; and Yamamoto, Yoshio,3,458,892.
Tatemichi, Hidemaro: *See—*
Ogasawara, Takahisa; Tatemichi, Hidemaro; Ito, Hiroo; and Suzuki, Shigenari,3,458,568.
Tateno, Keiji, to Nihon Kohden Kogyo, Ltd. Apparatus for detecting and eliminating hum. 3,475,692, 10-28-69, Cl. 330-103.
Tater, Charles W.: *See—*
Noznick, Peter P.; and Tater, Charles W.,3,443,960.
Tatewaki, Nobukiyo: *See—*
Kusuda, Fuyuki; Murayama, Masao; Matsuo, Yoshiharu; Okumura, Hideo; and Tatewaki, Nobukiyo,3,442,892.
Tateyama, Takanobu. Elastic shaft coupling. 3,473,349, 10-21-69, Cl. 64-27.
Tatham, John Edward, to British Oxygen Company Limited, The. Reservoir bag for breathing circuits. 3,473,531, 10-21-69, Cl. 128-202.
Tatibana, Hideo. Method of and apparatus for fusion sealing the opening of flexible plastic bottle-like containers. 3,457,694, 7-29-69, Cl. 53-39.
Tatibana, Hideo. Apparatus for filling a case with a number of ampules. 3,465,497, 9-9-69, Cl. 53-246.
Tatibana, Hideo. Apparatus for arranging ampules and feeding them onto a conveyor. 3,480,129, 11-25-69, Cl. 198-32.
Tatibana, Hideo. Apparatus for arranging ampules in regular order. 3,480,132, 11-25-69, Cl. 198-220.
Taticek, Lubomir: *See—*
Rambousek, Zdenek; Svaty, Vladimir; and Taticek, Lubomir,3,424,206.
Tatii, Munehisa, to Kabushiki Kaisha Hokusan. Portable bath box. 3,467,968, 9-23-69, Cl. 4-148.
Tatnall, Robert E., to Du Pont de Nemours, E. I., and Company. Temperature sensitive adhesive sheet material with an electric heat generating grid embedded therein. 3,468,747, 9-23-69, Cl. 161-79.
Tatom, Eugene, to United Aircraft Corporation. Structure and method for production of narrow doped region semiconductor devices. 3,456,168, 7-15-69, Cl. 317-235.
Tatom, Lynn D.: *See—*
Cuculic, Gail E.; Tatom, Lynn D.; and Murphree, Elwyn L.,3,450,100.
Tatro, Clement A.: *See—*
Dunegan, Harold L.; and Tatro, Clement A.,3,447,378.
Tatsumi, Juichi: *See—*
Katsuki, Kenichiro; Kawakami, Hiroshi; and Tatsumi, Juichi,3,470,289.
Tatsuzawa, Yoshinobu; Uchida, Kosaku; and Mayumi, Kazuaki, to Matsushita Electric Industrial Co., Ltd. Pulse modulation system. 3,467,876, 9-16-69, Cl. 328-150.
Tatter, Charles W.: *See—*
Noznick, Peter Paul; and Tatter, Charles W.,3,445,244.
Tatter, Charles W.; and Noznick, Peter P., to Beatrice Foods Co. Cheese phosphate and polyglyceryl partial ester composition. 3,421,904, 1-14-69, Cl. 99-117.
Tatter, Charles W.; and Noznick, Peter P., to Beatrice Foods Co. Acid flavored vegetable powder. 3,433,643, 3-18-69, Cl. 99-59.
Tatter, Ernest O. P., to Warwick Electronics Inc. Tape cartridge having a tape guiding groove therein. 3,454,961, 7-8-69, Cl. 242-197.
Tatter, Ernest O. P.; and Vazzano, Philip, to Warwick Electronics Inc. Self-threading tape recorder. 3,420,460, 1-7-69, Cl. 242-55.12
Tatter, Ernest O. P.; and Vazzano, Philip, to Warwick Electronics Inc. Record changer. 3,452,992, 7-1-69, Cl. 274-10.
Tatter, Ernest O. P.; and Vazzano, Philip, to Warwick Electronics, Inc. Repeat and manual record changer. 3,462,158, 8-19-69, Cl. 274-10.
Tatter, John W., to General Tire & Rubber Company, The. Football kicking device. 3,481,602, 12-2-69, Cl. 273-55.
Tattersall, David: *See—*
Shepherd, John M.; Copple, Christopher J.; and Tattersall, David,3,481,129.
Tattersfield, William R.: *See—*
Porter, Gilbert E., 3,487,357.
Tatterson, Benjamin F., to Koppers Company, Inc. Method and apparatus for spotting coke oven machinery. 3,464,894, 9-2-69, Cl. 202-262.
Tatum, Clifton L. Combined pressure gauge-relief valve. 3,473,563, 10-21-69, Cl. 137-557.
Tatum, Odes D., Jr.: *See—*
Rask, Stanley; Ross, Edgar A.; and Tatum, Odes D., Jr.,3,447,120.
Tatum, Samuel A., to Newport News Shipbuilding and Dry Dock Company. Filter for a balancing machine. 3,478,602, 11-18-69, Cl. 73-462.
Taub, Abraham, to Katz, Jacob M. One-use hand-cleaning tablets. 3,487,021, 12-30-69, Cl. 252-161.
Taub, Daniel M.: *See—*
Owen, Charles E.; Proudman, Antony; Taub, Daniel M.; and Warwick, William A.,3,432,830.
Taub, David, to Merck & Co., Inc. Process for the preparation of 13-lower alkyl- gona 4,-8(14), 9-triene-3, 17-dione. 3,422,121, 1-14-69, Cl. 260-397.3
Taub, David, to Merck & Co., Inc. 13-Lower alkyl-17-alpha-haloethynyl-17-beta- hydroxy-4,9-gonadien-3-one steroids and intermediate compounds. 3,454,600, 7-8-69, Cl. 260-345.2
Taub, David; Wendler, Norman L.; and Slates, Harry L., to Merck & Co., Inc.Novel 16β-alkyl-17-oxygenated steroids and processes. 3,461,144, 8-12-69, Cl. 260-397.45
Taub, David; Wendler, Norman L.; and Slates, Harry L., to Merck & Co., Inc.16β-Methyl-9α-fluoro-steroids. 3,485,854, 12-23-69, Cl. 260-397.45
Taub, David: *See—*
Hoffsommer, Robert D., Jr.; Taub, David; and Wendler, Norman L.,3,454,656.
Kuo, Chan Hwa; Taub, David; and Wendler, Norman L.,3,449,380.
Kuo, Chan-Hwa; Taub, David; and Wendler, Norman L.,3,472,881.

Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa,3,435,044.
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa,3,441,568.
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa,3,450,706.

Taub, Jesse J.: *See—*
Kurpis, Gediminas P.; and Taub, Jesse J.,3,487,337.

Taub, Ronald H. Collapsible display stand. 3,471,960, 10-14-69, Cl. 40-308.

Taub, Stanley. Illuminating endoscope with detachable shield. 3,435,820, 4-1-69, Cl. 128-11.

Taub, Stephen E., to Institutional Research Council, Inc. Wear-testing machines. 3,427,859, 2-18-69, Cl. 73-7.

Taub, William; Denss, Rolf; and Ostermayer, Franz, to Geigy Chemical Corporation. Analgesic compositions and methods containing 2- cyclohexen-1-ylamine or 3-cyclohexen-1-ylamine. 3,459,865, 8-5-69, Cl. 424-325.

Taubald, Helmut; and Fleer, Otto, to Siemens-Reiniger-Werke Aktiengesellschaft. Dental handpiece with compressed-air turbine drive. 3,471,125, 10-7-69, Cl. 253-2.

Taube, Carl: *See—*
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard,3,467,522.
Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard,3,480,438.

Taube, Carl; and Freytag, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Process for dyeing linear polyester fiber materials. 3,480,378, 11-25-69, Cl. 8-55.

Taube, Carl; and Freytag, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Insoluble carboxy containing dyestuff compositions. 3,485,572, 12-23-69, Cl. 8-62.

Tauber, Gunther: *See—*
Korbanka, Helmut; Tauber, Gunther; and Vollmann, Hansjorg,3,442,872.

Tauchert, Klaus; Munster, Horst; Hettich, Bernhard; Konig, Gerhard; Hofheinz, Karlheinz; and Kade, Peter, to Kienzle Apparate G.m.b.H. Printing arrangement with tabulated printing cylinder. 3,482,511, 12-9-69, Cl. 101-93.

Taudiere, Georges Marie Jacques Henry Emile, to La Culture Sans Terre S.A. Automatic watering device. 3,420,446, 1-7-69, Cl. 239-450.

Taudvin, Peter C.: *See—*
Christian, Rodney E.; and Taudvin, Peter C.,3,476,170.

Taul, Horst; and Kogler, Hubert, to Vereinigte Glanzstoff-Fabriken AG. Method of purifying ethylene glycol. 3,458,583, 7-29-69, Cl. 260-637.

Taupier, Joan: *See—*
Guynes, William L., 3,442,195.

Taura, Teruchika: *See—*
Yamauchi, Saburo; Taura, Teruchika; Isogai, Yuzuru; and Seino, Hideki,3,469,372.

Tausanovitch, Dusan. Reusable concrete form tie. 3,437,309, 4-8-69, Cl. 249-216.

Tausch, Gilbert H., to Camco Incorporated. Relief valve for protecting a differential pressure transducer. 3,437,964, 4-8-69, Cl. 336-30.

Tausch, Winfried: *See—*
Weigert, Eberhard; and Tausch, Winfried,3,456,623.

Tauscher, Henry, to Triple H Transmission Corporation. Variable speed mechanism. 3,420,113, 1-7-69, Cl. 74-63.

Tausheck, Russell W.: *See—*
Pector, Harold; and Tausheck, Russell W.,3,424,487.

Tausk, Edward F., to International Harvester Company. Cathodic protection apparatus. 3,423,305, 1-21-69, Cl. 204-197.

Tauson, Peter O., to Westinghouse Electric Corporation. Calorimeter apparatus and system. 3,479,872, 11-25-69, Cl. 73-192.

Taussig, Peter R.; and Storms, Phillip W., to Marathon Oil Company. Preparation of naphthalene polyaldehydes. 3,448,156, 6-3-69, Cl. 260-599.

Tautz, William Paul: *See—*
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul,3,468,902.

Tauzia, Jacques: *See—*
Robert, Andre Charles; and Tauzia, Jacques,3,432,758.

Tavannes Machines Co., S.A.: *See—*
Barfuss, Pierre, 3,481,000.

Tave, Richard G., to Atlantic Richfield Company. Recovery of molybdenum from organic solutions. 3,453,068, 7-1-69, Cl. 23-20.

Tave, Richard G., to Atlantic Richfield Company. Recovery of molybdenum from organic solutions using ammonium phosphate. 3,463,604, 8-26-69, Cl. 23-22.

Tavel, Jon H. Cordless electric vibrator for use on the human body. 3,451,391, 6-24-69, Cl. 128-36.

Tavelle, Charles L.: *See—*
Holmes, Robert L.; and Tavelle, Charles L.,3,481,805.

Tavenner, Michael S.: *See—*
Hunt, Mahlon S.; Tavenner, Michael S.; and Wirtanen, Theodore E.,3,459,952.

Taverna, Sergio: *See—*
Bracco, Cesare; and Taverna, Sergio,3,455,141.

Tavernier, Bernard Hippoliet; and De Meyer, Alfons Jozef, to Gevaert-Agfa N.V. Method for the preparation of thiogold (1) compounds. 3,438,748, 4-15-69, Cl. 23-315.

Tavkozlesi Kutato Intezet: *See—*
Acs, Erno, 3,422,226.

Tavoletti, Luciano, to Montecatini Edison S.p.A. Dye receptive textile fibers, films, shaped articles and the like comprising synthetic polymers, and method for preparing same. 3,475,400, 10-28-69, Cl. 260-93.7

Tawara, Yoshio: *See—*
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,492.
Yanase, Akira; Tawara, Yoshio; Iga, Atsushi; and Hirota, Hozumi,3,424,687.

Tax, Hans; and Franke, Rudiger. Vehicle for handling large containers. 3,482,720, 12-9-69, Cl. 214-394.

Taxar, Iegoshua Mikhailovich: *See—*
Fedotov, Igor Leonidovich; Yanushkovaky, Vladimr Alexandrovich; Taxar, Iegoshua Mikhailovich; and Olshvanger, Boris Akibovich,3,452,202.

Taxil, Andre, to Claude Paz et Visseaux. Process for filling an electric discharge lamp having an ionisable atmosphere. 3,421,804, 1-14-69, Cl. 316-26.

Tayama, Eisei: *See—*
Kuribayashi, Sadatomo; Tayama, Eisei; Mishima, Makio; and Yuzawa, Syuichi,3,451,379.

Tayama, Kazuo: *See—*
Toyoda, Hiromichi; Tayama, Kazuo; Miyazaki, Yoshitoshi; Hinohara, Keiichi; and Suzuki, Hisao,3,472,071.

Taylor & Challen Limited: *See—*
Jeavons, Daniel, 3,463,286.
Jeavons, Daniel, 3,470,989.

Taylor & Gaskin, Inc.: *See—*
Bildsoe, Jorgen S.; Krammer, Robert; and Muirhead, Raymond A., 3,438,338.
Lauzon, James Nelson; Sandner, Raymond J.; and Bildsoe, Jorgen S., 3,458,026.
Paquette, Cyril D., 3,469,714.

Taylor, Albert E.; and Benjamin, Ivan E., to Eaton Manufacturing Company. Axle mechanism. 3,441,106, 4-29-69, Cl. 184-6.

Taylor, Alfred H.: *See—*
Hemstreet, Russell A.; and Taylor, Alfred H.,3,437,582.

Taylor, Arkle D., to Goodyear Tire & Rubber Company, The. Polymerization process. 3,467,641, 9-16-69, Cl. 260-94.3

Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, to American Cyanamid Company. Stoppering mechanism. 3,453,804, 7-8-69, Cl. 53-264.

Taylor, Arthur Sinclair: *See—*
Sandhage, Ellsworth Roland; and Taylor, Arthur Sinclair,3,420,743.
Vincent, James G., Jr.; Hansen, Lloyd Frank; Yen, Ernest Chu; Taylor, Arthur Sinclair; Bott, George Spencer; and Greif, Martin,3,436,453.

Taylor, Arthur S.; and Sandhage, Ellsworth R., to American Cyanamid Company. Tape-applying apparatus and method. 3,439,588, 4-22-69, Cl. 93-36.9

Taylor, Bernard. Apparatus for cleaning surfaces. 3,461,478, 8-19-69, Cl. 15-302.

Taylor, Bill G.; and Colomb, Glenn T., to Halliburton Company. Pneumatic method of producing cementing slurries. 3,463,460, 8-26-69, Cl. 259-147.

Taylor, Calvin N., to Bric-Wall Manufacturing Co., Inc., mesne. Masonry veneer siding and mold. 3,426,490, 2-11-69, Cl. 52-204.

Taylor, Carl E., to Johns Hopkins University, The. Contraceptive device. 3,431,906, 3-11-69, Cl. 128-130.

Taylor, Charles E.; and Kemeny, Julius, to General Electric Company. Direct antenna lead connection for a communications receiver. 3,484,696, 12-16-69, Cl. 325-354.

Taylor, Charles J.: *See—*
Barditch, Irving F.; and Taylor, Charles J.,3,423,262.
United States of America,National Aeronautics and Space Administration, Administrator, 3,458,313.

Taylor, Charles W.: *See—*
Davis, Horace R.; and Taylor, Charles W.,3,455,736.

Taylor, Christopher G.: *See—*
Lott, Chancy M., 3,440,781.

Taylor, Clifton E.: *See—*
Ham, Donald M.; and Taylor, Clifton E.,3,443,042.

Taylor, Colin: *See—*
Marsh, Hugh R. W.; and Taylor, Colin,3,450,364.

Taylor, David H., to Thermo King Corporation. Controlling atmospheric conditions. 3,472,040, 10-14-69, Cl. 62-117.

Taylor, Donald A. Fluoroscopic television and cine-camera system. 3,439,114, 4-15-69, Cl. 178-6.8

Taylor, Donald F., Jr.: *See—*
Sizer, Phillip S.; and Taylor, Donald F., Jr.,3,457,991.
Nash, Lawrence M.; and Taylor, Donald F.,3,448,478.

Taylor, Donald M.: *See—*
Buker, Paul S.; Taylor, Donald M.; and Weich, Peter J.,3,466,727.
Taylor, Donald M., to Armco Steel Corporation. Panel structure with interlocking ribs. 3,481,094, 12-2-69, Cl. 52-394.
Taylor, Donald R., Jr., to Philco-Ford Corporation. Optical correlator. 3,441,724, 4-29-69, Cl. 235-181.
Taylor, Douglas W.: *See—*
Carnes, Robert A.; and Taylor, Douglas W.,3,439,255.
Taylor, Douglas W., to Motorola, Inc. Vertical deflection system for television. 3,427,498, 2-11-69, Cl. 315-27.
Taylor, Edward C.; and Bartulin, Juan. 2-Substituted-1 hydroxyquinazoline 3-oxides and quinazoline 1,3-dioxides. 3,476,756, 11-4-69, Cl. 260-256.4
Taylor, Edward C.; and Lenard, Katherine. 8,13-Diazasteroids. 3,476,755, 11-4-69, Cl. 260-251.
Taylor, Edward C.; and Shvo, Youval. Benzopyrroloquinazolinones. 3,423,412, 1-21-69, Cl. 260-251.
Taylor, Elliot L.: *See—*
Luperi, Mario J.; Tick, Sanford J.; and Taylor, Elliot L.,3,482,397.
Taylor, Elmer N., to Hughes Aircraft Company. Regeneratively switched sawtooth and squarewave generator. 3,463,937, 8-26-69, Cl. 307-228.
Taylor, Ernest, to Manlove, Alliott, & Co., Limited. Feeding of laundry flatwork. 3,442,036, 5-6-69, Cl. 38-143.
Taylor, Everett W.: *See—*
Rammel, Gerald E.; Taylor, Everett W.; and Charon, Clarence W.,3,472,682.
Taylor, Frank H.: *See—*
Sizer, Phillip S.; and Taylor, Frank H.,3,481,395.
Taylor, Frank W. Basic fertilizers containing derivatives of an olivine mineral. 3,446,612, 5-27-69, Cl. 71-40.
Taylor Garage Doors a division of Garland Manufacturing Company: *See—*
Stansberry, Robert F., 3,436,862.
Taylor, Geoffrey N.; and Bleininger, Leonard S., to Data Products Corporation. Air lubricated magnetic head pad and mounting system therefor. 3,430,006, 2-25-69, Cl. 179-100.2
Taylor, George H., Jr. Method of servicing printed circuit boards. 3,466,732, 9-16-69, Cl. 29-426.
Taylor, George Wesley. Helical cable grip. 3,424,417, 1-28-69, Cl. 248-63.
Taylor, George Wright; and Wood, Derek Harold, to Imperial Chemical Industries Limited. Stabilized polyolefins. 3,422,059, 1-14-69, Cl. 260-45.85
Taylor, George Wright; and Wood, Derek Harold, to Imperial Chemical Industries, Limited. 2-Hydrohybenzophenone containing phosphorous acid esters. 3,450,802, 6-17-69, Cl. 260-946.
Taylor, George: *See—*
Heehler, Arthur C.; and Taylor, George,3,423,726.
Taylor, Grady E.: *See—*
Moyer, Ralph H.; and Taylor, Grady E.,3,477,826.
Taylor, Halfred E., to Packaging Corporation of America. Package of stacked containers. 3,463,306, 8-26-69, Cl. 206-65.
Taylor, Henry Bastian: *See—*
Haines, Ernest Martin; and Taylor, Henry Bastian,3,478,285.
Taylor, Henry Bernard. Agriculture spray unit. 3,429,510, 2-25-69, Cl. 239-171.
Taylor, Herbert E.; and Pearl, David R., to Combustion Engineering, Inc. Incinerator draft control and vent valve. 3,447,493, 6-3-69, Cl. 110-7.
Taylor, Herbert E.; Pearl, David R.; and Wolfson, Lawrence S., to Combustion Engineering, Inc. Furnace wall construction. 3,435,578, 4-1-69, Cl. 52-396.
Taylor, Herbert L.: *See—*
Archer, David H.; Glasser, Albert D.; Sverdrup, Edward F.; and Taylor, Herbert L.,3,433,680.
Taylor, Howard D., to Allied Chemical Corporation. Gas jet cleaning of coke oven doors and jambs. 3,454,426, 7-8-69, Cl. 134-20.
Taylor, Howard N.: *See—*
Cannon, Lester E.; Tindall, John M.; and Taylor, Howard N.,3,474,594.
Taylor, Hugh P.: *See—*
Zulch, Donald I.; and Taylor, Hugh P.,3,480,960.
Taylor Instrument Companies: *See—*
Beach, Richard G., 3,420,147.
Gebo, Charles H., 3,454,887.
Taylor Instrument Consumer Products: *See—*
Kluth, Lewis A.; Melville, Richard J.; and Thompson, Robert D., 3,465,590.
Taylor, Irving R.; and Williams, Arthur L., to Wean Industries, Inc., mesne. Apparatus for welding strip material. 3,446,933, 5-27-69, Cl. 219-82.
Taylor, Jack William, to Ingersoll Locks Limited. Locks and keys. 3,486,354, 12-30-69, Cl. 70-393.
Taylor, James Howard; and Eidt, Clarence Martin, Jr., to Esso Research and Engineering Company. Two-step process for the oxidation of aluminum alkyls. 3,432,535, 3-11-69, Cl. 260-448.
Taylor, James L., Manufacturing Company: *See—*
Quick, Lloyd; Mortoly, John L.; and Cameron, Steele P., 3,428,508.
Taylor, James L., to Burlington Industries, Inc. Process for crimping multifilament yarn. 3,421,193, 1-14-69, Cl. 28-72.
Taylor, James L., to Thompson-Hayward Chemical Company. Control of acarids with triphenyl tin compounds. 3,445,575, 5-20-69, Cl. 424-288.
Taylor, James W.: *See—*
Perkins, Paul E.; Perkins, Warren E.; Thomas, David E.; and Taylor, James W.,3,476,877.
Poxon, Alan; and Taylor, James W.,3,420,553.
Taylor, Jason H.: *See—*
Farrell, Thomas P.; and Taylor, Jason H.,3,477,525.
Taylor, Jean M. Van type vehicle. 3,451,499, 6-24-69, Cl. 180-89.
Taylor, John Edwin Gordon, to National Cash Register Company, The. Process of a sensitizing paper with phenolic polymeric material. 3,466,185, 9-9-69, Cl. 117-36.2
Taylor, John Heyward: *See—*
Foster, Reginald Thomas; and Taylor, John Heyward,3,440,236.
Taylor, John J., to Ohio Brass Company, The. Support and dampening means. 3,429,234, 2-25-69, Cl. 92-143.
Taylor, John J.; and Wale, Edward H., to United Shoe Machinery Corporation. Shoe sole mold assembly. 3,481,003, 12-2-69, Cl. 18-42.
Taylor, John Logan: *See—*
MacDougall, Ian Campbell; and Taylor, John Logan,3,422,991.
Taylor, John O. Trailer jack. 3,475,008, 10-28-69, Cl. 254-86.
Taylor, John T.: *See—*
Jacobson, Kenneth E.; and Taylor, John T.,3,443,747.
Petersen, Arne J.; and Taylor, John T.,3,479,270.
Taylor, John W., Jr.; Gobl, Gerhard E.; and Hiscox, Harold C., to United States of America, Army, mesne. Hydrodynamic delay line. 3,432,777, 3-11-69, Cl. 333-31.
Taylor, John William: *See—*
Lynes, Roberts Kitchener; Willis, John Marden; and Taylor, John William,3,484,074.
Taylor, John; and Purcell, Ronald, to Rolls-Royce Limited. Apparatus for electro-chemical machining with a rotating grooved electrode tool. 3,479,273, 11-18-69, Cl. 204-224.
Taylor, Joseph M.: *See—*
Taylor, William B.; and Taylor, Joseph M.,3,479,059.
Taylor, Keith Andrew: *See—*
O'Brien, Stephen; Janes, William Henry; Taylor, Keith Andrew; and Todd, Peter Frank,3,436,383.
Taylor, Keith Andrew, to Imperial Chemical Industries Limited. Iridium (I) compounds with chelating ligands. 3,428,661, 2-18-69, Cl. 260-429.
Taylor, Keith M.: *See—*
Evans, Robert J.; and Taylor, Keith M.,3,449,399.
Evans, Robert J.; and Taylor, Keith M.,3,449,400.
Evans, Robert J.; and Taylor, Keith M.,3,449,401.
Evans, Robert J.; and Taylor, Keith M.,3,449,402.
Evans, Robert J.; and Taylor, Keith M.,3,471,547.
Evans, Robert J.; and Taylor, Keith M.,3,472,890.
Taylor, Kenneth M.: *See—*
McMullen, John C.; and Taylor, Kenneth M.,3,480,395.
Taylor, Lawrence C.: *See—*
Griffeth, Thurman F.; Taylor, Lawrence C.; and Hale, Elgie J.,3,487,302.
Taylor, Lawrence D. Bumper bracket mounting assembly. 3,427,063, 2-11-69, Cl. 293-73.
Taylor, Leonard S., to Willan, G. L., Limited. Apparatus for temperature measurement in vacuum melting and casting installations. 3,461,216, 8-12-69, Cl. 13-31.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D., to Miles Laboratories, Inc. Tiltable table. 3,421,457, 1-14-69, Cl. 108-4.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D. Float arm for gauges. 3,453,885, 7-8-69, Cl. 73-317.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D. Method of making a float for a liquid level. 3,463,843, 8-26-69, Cl. 264-68.
Taylor, Lloyd D., to Polaroid Corporation. Novel photographic products and processes. 3,421,892, 1-14-69, Cl. 96-3.
Taylor, Lloyd D., to Polaroid Corporation. Acrylic polymer spacer layers for photographic elements. 3,421,893, 1-14-69, Cl. 96-29.
Taylor, Lloyd D., to Polaroid Corporation. Polymers modified with a monosulfonyl isocyanate. 3,422,075, 1-14-69, Cl. 260-77.5
Taylor, Lloyd D.; and Roth, Peter H., to Polaroid Corporation. Emulsion binders. 3,479,186, 11-18-69, Cl. 96-114.
Taylor, Lloyd D.: *See—*
Haas, Howard C.; and Taylor, Lloyd D.,3,427,250.
Taylor Lock Company: *See—*
Schwartz, Jerome, 3,429,154.
Taylor, Maurice E., to Gulf Research & Development Company. Apparatus for the size distribution of an aggregation. 3,469,921, 9-30-69, Cl. 356-102.
Taylor, Michael Charles: *See—*
Palmer, Kenneth Percival; and Taylor, Michael Charles,3,478,766.

Taylor, Milford J., to Erving Paper Mills. Adjustable length sheet dispenser. 3,459,353, 8-5-69, Cl. 226-132.
Taylor, Monroe F.: *See—*
Churchill, Ivan F.; Searcy, Homer A.; and Taylor, Monroe F.,3,469,368.
Taylor, Murray E., to Boeing Company, The. Polymer bonding process and product. 3,449,191, 6-10-69, Cl. 156-306.
Taylor-Myers, Robert W. Road surface marker and installation apparatus therefor. 3,427,933, 2-18-69, Cl. 94-1.5
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim, to White, S. S., Company, mesne. Adjustable chair. 3,473,845, 10-21-69, Cl. 297-410.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim, to White, S. S., Company, mesne. Control for adjustable chair. 3,482,072, 12-2-69, Cl. 200-159.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim, to Pennsalt Chemicals Corporation, mesne. Adjustable chair. 3,486,789, 12-30-69, Cl. 297-78.
Taylor, Paul Alfred: *See—*
Bracey, Kenneth Edward George; and Taylor, Paul Alfred,3,448,582.
Taylor, Paul Eugene: *See—*
Levesque, George Napoleon; Taylor, Paul Eugene; and Barney, Neil Ide,3,427,755.
Taylor, Percy Ronald, to Monsanto Chemicals Limited. Processes for casting molten metal in active carbon coated ceramic shell moulds. 3,474,851, 10-28-69, Cl. 164-23.
Taylor, Peter Norman: *See—*
Brown, Arnold; and Taylor, Peter Norman,3,422,697.
Taylor, Ralph C., Jr.: *See—*
Neal, Norman D.; Taylor, Ralph C., Jr.; and Albrecht, George O.,3,465,332.
Taylor, Ralph E., to United States of America, National Aeronautics and Space Administration. Automatic acquisition system for phase-lock loop. 3,421,105, 1-7-69, Cl. 331-4.
Taylor, Randolph G., to United States of America, Navy. Sensitive, quick response ionization chamber. 3,430,087, 2-25-69, Cl. 313-93.
Taylor, Raymond A.; and Ehat, Raphael F., to United States of America, Navy. Temperature compensating signal transmitter. 3,458,827, 7-29-69, Cl. 330-13.
Taylor, Raymond F., to Whirlpool Corporation. Article fastener. 3,420,482, 1-7-69, Cl. 248-71.
Taylor, Raymond G., Jr., to Jackson, Byron, Inc. Orienting tool for slant hole drilling. 3,455,401, 7-15-69, Cl. 175-45.
Taylor, Raymond G., Jr., to Jackson, Byron, Inc. High or low fluid flow signalling apparatus. 3,468,035, 9-23-69, Cl. 33-205.
Taylor, Raymond H. Slotted wedge-type eyebolt. 3,451,304, 6-24-69, Cl. 85-79.
Taylor, Raymond H. Looped cable wedge-type eyebolt. 3,472,120, 10-14-69, Cl. 85-79.
Taylor, Raymond Sidney: *See—*
Weeks, Sidney Arthur; Taylor, Raymond Sidney; and Croughan, James,3,446,145.
Taylor, Richard A.: *See—*
Leffingwell, Lawrence B.; Taylor, Richard A.; and Chaffee, Linda P.,3,472,022.
Taylor, Richard Perry; and Abson, Derek, to Columbia Cellulose Company Limited. Production of cellulose esters from particulate lignocellulosic material. 3,479,336, 11-18-69, Cl. 260-225.
French, Walter K.; and Taylor, Richard,3,444,914.
Taylor, Robert A.; and Krikau, Frederick G., said Taylor assor. to Du Pont de Nemours, E. I.,. Process for treatment of hydrochloric acid waste pickle liquor. 3,434,797, 3-25-69, Cl. 23-90.
Taylor, Robert B., to General Electric Company. Load cell with removable, low hysteresis load sensors. 3,447,367, 6-3-69, Cl. 73-141.
Taylor, Robert B.; and Walker, Robert G. Process for storing uncooked dough models and package. 3,436,232, 4-1-69, Cl. 99-172.
Taylor, Robert C.: *See—*
De Witt, William J.; and Taylor, Robert C.,3,480,556.
Doan, Robert B.; and Taylor, Robert C.,3,436,351.
Reid, John C.; Doan, Robert B.; and Taylor, Robert C.,3,463,736.
Taylor, Robert Edward, to Du Pont de Nemours, E. I., and Company. Treatment of linear polyester with copper salt and alkali metal iodide. 3,446,766, 5-27-69, Cl. 260-22.
Taylor, Robert E., to Redi Container Corporation. Corner protectors. 3,443,684, 5-13-69, Cl. 206-60.
Taylor, Robert J.: *See—*
Salaman, Roy George; and Taylor, Robert J.,3,441,940.
Taylor, Robert L. Cleaning device for fragile flexible hose. 3,445,879, 5-27-69, Cl. 15-104.1
Taylor, Robert P., to Vancouver Island Helicopters Ltd. Helicopter camera mounting. 3,485,151, 12-23-69, Cl. 95-12.5
Taylor, Robert W.: *See—*
Leach, Hugh K.; Taylor, Robert W.; and De Waters, Terry L.,3,457,796.
Taylor, Roland, to United Kingdom Atomic Energy Authority. Charcoal for use in trapping systems. 3,429,103, 2-25-69, Cl. 55-71.
Taylor, Roland, to United Kingdom Atomic Energy Authority. Fission product trapping systems. 3,453,807, 7-8-69, Cl. 55-71.
Taylor, Ronald B.: *See—*
Burns, William C.; and Taylor, Ronald B.,3,458,618.
Taylor, Ronald C.: *See—*
Mitchell, Walter B.; and Taylor, Ronald C.,3,421,025.
Taylor, Rupert A.: *See—*
Ethridge, John L.; and Taylor, Rupert A.,3,483,606.
Taylor, S. G., Chain Company, Inc.: *See—*
Gantz, Ray D., 3,442,497.
Taylor-Smith, Ernest J. Building unit casting and facing method and apparatus. 3,426,112, 2-4-69, Cl. 264-71.
Taylor, Stanley, to Electric & Musical Industries Limited. Electrical scanning apparatus. 3,445,589, 5-20-69, Cl. 178-7.1
Taylor, Stephen E.; and Sylvester, Gerald W., to Rite Autotronics Corporation. Mounting assembly for a high voltage gaseous discharge tube. 3,444,364, 5-13-69, Cl. 240-11.4
Taylor, Stephen M. Seat arrangement for boat interiors and hinge means therefor. 3,473,176, 10-21-69, Cl. 9-7.
Taylor, Thelmer D. Form clamp. 3,429,548, 2-25-69, Cl. 249-192.
Taylor, Thomas Charles, to Sealectro Limited. Electrical switches and devices employing electrical switches. 3,449,533, 6-10-69, Cl. 200-46.
Taylor, Thomas Lester; and Wigton, Elwin Cleland, to Sylvania Electric Products, Inc. Oscillator drive circuitry. 3,450,937, 6-17-69, Cl. 315-27.
Taylor, Thomas Lester: *See—*
Scott, Benton Boyd; and Taylor, Thomas Lester,3,465,344.
Taylor, Wallace Edmondson; and Witt, Enrique Roberto, to Celanese Corporation. Resorcinol esters of α,α,-dimethyl aliphatic acids. 3,462,468, 8-19-69, Cl. 260-410.5
Taylor, Wallace M., Jr.; and Reece, Asa M., to United States of America, Navy. Cable fairing. 3,440,993, 4-29-69, Cl. 114-235.
Taylor Weeks & Partner Limited: *See—*
Weeks, Sidney Arthur; Taylor, Raymond Sidney; and Croughan, James, 3,446,145.
Taylor, Wesley L., to Power Regulator Company. Heating-cooling vortex control valve. 3,478,960, 11-18-69, Cl. 236-1.
Taylor, Wesley L.; Priesmeyer, Charles H.; Sauerman, Ernest C.; and Thorburn, David H., to Powers Regulator Company, The. Programming apparatus. 3,472,014, 10-14-69, Cl. 57-93.
Taylor, Wilfred V. Fluent material dispenser. 3,485,419, 12-23-69, Cl. 222-340.
Taylor, William B.; and Taylor, Joseph M. Lined pipe sections and joints. 3,479,059, 11-18-69, Cl. 285-55.
Taylor, William C.: *See—*
Hansen, Kenneth W.; and Taylor, William C.,3,448,703.
Pfeifer, Oliver W.; and Taylor, William C.,3,468,750.
Taylor, William D., to Rubbermaid Incorporated. Tilt-down drawer construction. 3,439,967, 4-22-69, Cl. 312-307.
Taylor, William D., to Rubbermaid Incorporated. Plastic dish drainer. 3,442,395, 5-6-69, Cl. 211-41.
Taylor, William D., to Rubbermaid Incorporated. Slide-out lid rack. 3,465,892, 9-9-69, Cl. 211-41.
Taylor, William D.: *See—*
Tone, John W.; Simon, Albert E., Jr.; and Taylor, William D.,3,427,674.
Taylor, William F. Power tool. 3,456,699, 7-22-69, Cl. 144-1.
Taylor, William F., to Esso Research and Engineering Company. Low-temperature, low-pressure vapor reforming. 3,475,126, 10-28-69, Cl. 23-213.
Taylor, William F.; and Sinfelt, John H., to Esso Research and Engineering Company. Exhaust gas purification. 3,429,656, 2-25-69, Cl. 23-2.
Taylor, William F.; and Sinfelt, John H., to Esso Research and Engineering Company. Equilibration and steam-reforming catalysts. 3,444,099, 5-13-69, Cl. 252-465.
Taylor, William F.; Sinfelt, John H.; and Berk, Henry, to Esso Research and Engineering Company. Process for reacting hydrocarbons and steam using spent catalyst for pretreating. 3,449,099, 6-10-69, Cl. 48-214.
Taylor, William F.; Sinfelt, John H.; and Biller, William F., to Esso Research and Engineering Company. Exhaust gas treatment. 3,443,886, 5-13-69, Cl. 23-2.
Taylor, William F.; and Wallace, Thomas J., to Esso Research and Engineering Company. Apparatus and method for testing liquid hydrocarbons. 3,438,248, 4-15-69, Cl. 73-61.2
Taylor, William F.: *See—*
Sinfelt, John H.; and Taylor, William F.,3,450,514.
Sinfelt, John H.; Taylor, William F.; and Dembinski, Jerzy,3,421,870.
Taylor, William Irving: *See—*
Finch, Neville; and Taylor, William Irving,3,466,319.
Taylor, William Leander: *See—*
Ahearn, John James, Jr.; and Taylor, William Leander,3,474,185.
McKinney, John L.; and Taylor, William L.,3,421,334.
Wright, Gerard C.; and Taylor, William L.,3,435,693.
Taylor, William P., to U.S. Plywood-Champion Papers Inc. Package for copy sheets. 3,420,405, 1-7-69, Cl. 221-25.

Taylor, William P.; and Drazkowski, David V., to Parker-Hannifin Corporation. Antiaicer valve. 3,460,564, 8-12-69, Cl. 137-517.
Taylor, William R.: *See—*
Hilton, Kenneth; and Taylor, William R.,3,474,213.
Taylor, William R., to Perry Laboratories, Inc. Resonant reed device. 3,463,947, 8-26-69, Cl. 310-25.
Taylor, William S.; and Whitehead, Robert C., Jr., to Honeywell Inc. Apparatus for measuring fat content of animal tissue. 3,455,168, 7-15-69, Cl. 73-432.
Taylor, Willie: *See—*
Mock, Walton L.; and Taylor, Willie,3,422,955.
Taylor-Winfield Corporation, The: *See—*
Chew, Charles R.; and Toth, Endre Leslie, 3,426,952.
Riley, Joseph J., 3,460,022.
Riley, Joseph J., 3,469,060.
Seeloff, Melvin M., 3,428,775.
Seeloff, Melvin M., 3,433,388.
Seeloff, Melvin M.; and Cooper, Joseph H., 3,433,537.
Seeloff, Melvin M.; and Cooper, Joseph H., 3,457,834.
Seeloff, Melvin M., 3,480,194.
Seeloff, Melvin M., 3,484,579.
Woodward, Foster R., 3,468,071.
Taynton, Ralph, to Radio Corporation of America. Packaging of electrical equipment. 3,434,014, 3-18-69, Cl. 317-99.
Taysom, Patrick Arnold; and Kirk, Robert Edwin, to International Standard Electric Corporation. Wire wrapping machine. 3,435,858, 4-1-69, Cl. 140-92.1
Tazaki, Michiharu, to Kyocikogyo Kabushikikaisha. Drawer latch device for filing cabinets. 3,450,453, 6-17-69, Cl. 312-222.
Tazba, Semen Moiseevich: *See—*
Vill, Vadim Ivanovich; Kochanovsky, Nikolai Jakovlevich; Tazba, Semen Moiseevich; Shpeizman, Miron Matveevich; and Shternin, Lev Alexandrovich,3,460,734.
Tazewell, Joseph H., to Firestone Tire & Rubber Company, The. Polyamides stabilized with mixtures of mercaptobenzothiazole and a substituted phenylenediamine. 3,459,702, 8-5-69, Cl. 260-45.8
Tazuma, James J., to Goodyear Tire & Rubber Company, The. Alkylation method. 3,466,343, 9-9-69, Cl. 260-671.
Tazuma, James J.; and Zadra, Mario D., to Goodyear Tire & Rubber Company, The. Codimerization process. 3,432,572, 3-11-69, Cl. 260-683.15
Tcheditch, Pierre, to CSF-Compagnie Generale de Telegraphie Sans Fil. Electronic scanning antenna. 3,480,958, 11-25-69, Cl. 343-16.
Tchejeyan, Sarkis K.: *See—*
Rosenberger, Harold E.; and Tchejeyan, Sarkis K.,3,437,395.
Tchelitcheff, Serge: *See—*
Preud'homme, Jean; and Tchelitcheff, Serge,3,472,930.
Tcherkawsky, Claude, to Societe d'Electro-Chimie d'Electro- Metallurgie et des Acieries Electriques d'Ugine. Process for production of glacial acrylic acid by azeotropic distillation with a water entrainer. 3,432,401, 3-11-69, Cl. 203-15.
Tchernev, Dimiter I.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,328.
Tchinnis, Michael F.: *See—*
Kwartiroff, Alexis A.; and Tchinnis, Michael F.,3,456,206.
TDK Electronics Company, Limited: *See—*
Fujiwara, Shinobu; and Shiraiwa, Takao, 3,427,173.
Fujiwara, Shinobu; and Shiraiwa, Takao, 3,440,067.
Fujiwara, Shinobu, 3,468,680.
Hayashi, Shigekazu; Kobayashi, Sadao; and Fujiwara, Shinobu, 3,431,124.
Hiraga, Teitaro; Wakabayasi, Syoichi; Towtari, Yoshishiga; and Inuyama, Tadao, 3,481,876.
Iwaya, Shoichi; and Yoshioka, Tunchiko, 3,456,314.
Iwaya, Shoichi; and Yoshioka, Tunchiko, 3,457,477.
Matsushima, Mitsuo; Akino, Tadaharu; and Kato, Shigeru, 3,449,704.
Nagashima, Tatsuo; and Suganuma, Fujio, 3,444,323.
Teaching Machines, Inc.: *See—*
Cornell, Dudley E., III; and O'Connell, Robert A., 3,477,142.
Tead, Doris F.: *See—*
Tead, John C.; and Tead, Doris F.,3,461,575.
Tead, John C.; and Tead, Doris F. Sole for footwear. 3,461,575, 8-19-69, Cl. 36-30.
Teager, Herbert M., to Massachusetts Institute of Technology. Analog to digital converter. 3,440,643, 4-22-69, Cl. 340-347.
Teagle, Richard E., to United States of America, Federal Aviation Administration, mesne. Engine exhaust controller. 3,420,442, 1-7-69, Cl. 239-127.3
Teagno, Wladimiro, to AMP Incorporated. Crimping ferrule with insert rings of hard material. 3,474,399, 10-21-69, Cl. 339-276.
Teague, Gilliam S., Jr.: *See—*
Lowe, Jack W., Jr.; and Teague, Gilliam S., Jr.,3,429,840.
Teague, James, Jr.: *See—*
Petertil, Victor A.; and Teague, James, Jr.,3,453,700.
Teague, Jimmy Calvin: *See—*
Van Horn, John W.; Teague, Jimmy Calvin; and Prickett, Jack A.,3,481,442.
Teague, Jo Morgan, Jr., to Owens-Illinois, Inc. Compositions exhibiting persistent internal polarization where a photoconductive material is dispersed in a polysiloxane resin derived from trifunctional monomers. 3,453,106, 7-1-69, Cl. 96-1.5
Teague, Sidney P.: *See—*
Jeffery, Warren C.; and Teague, Sidney P.,3,433,509.
Jeffery, Warren C.; and Teague, Sidney P.,3,480,300.
Jeffery, Warren C.; and Teague, Sidney P.,3,480,302.
Teague, Walter Dorwin, Jr., to Columbia Gas System Service Corporation. Method and system for laying pipe under water. 3,479,831, 11-25-69, Cl. 61-72.3
Teague, Walter Dorwin, Jr.; and Montalbano, Anthony P., to Columbia Gas System Service Corporation. Magnetic shutoff valve particularly for controlling a gas supply. 3,451,650, 6-24-69, Cl. 251-65.
Teague, Walter Dorwin, Jr.; Montalbano, Anthony P.; and Fromm, Charles W., to Columbia Gas System Service Corporation. Gas stove. 3,468,298, 9-23-69, Cl. 126-39.
Teal Industries, Inc.: *See—*
Gentry, Martin Butler, Jr.; and Collings, Thomas Guy, 3,457,489.
Teal, James L.: *See—*
Hamilton, Charles E.; Teal, James L.; and Kelly, James A.,3,442,802.
Kelly, James A.; and Teal, James L.,3,448,018.
Teal, John W. Grass catcher attachment for lawn mowers. 3,423,916, 1-28-69, Cl. 56-199.
Teaney, Richard Dean, to Monsanto Company. Ternary azeotropic distillation of alkoxynitriles. 3,441,484, 4-29-69, Cl. 203-91.
Tearpock, Daniel J., to Magor Railcar Division, Fruehauf Corporation. Railway car handbrake construction. 3,484,815, 12-16-69, Cl. 188-33.
Teasdale, Barton F., to Canada Packers Limited. Salad oil from zero-erucic acid rapeseed oil. 3,443,967, 5-13-69, Cl. 99-118.
Teas, Edward Bruce: *See—*
Hrishikesan, Kizhakke Govind; Kane, James Franklin; Teas, Edward Bruce; and Brown, William Haddon,3,469,935.
Tebben, John A. Cultivator shield. 3,429,379, 2-25-69, Cl. 172-510.
Tebbutt, Charles Norman, to Metal Box Company Limited, The. Containers end closure structure. 3,434,627, 3-25-69, Cl. 220-67.
Tecalemit (Engineering) Limited: *See—*
Greenwood, Thomas Eric; Woor, Denis Frederick; and Farnfield, Ronald Edward, 3,455,349.
Stripp, Peter William; and May, Reginald Ralph, 3,461,990.
Woor, Denis Frederick; Stripp, Peter William; and Grantham, Max Edward, 3,456,761.
Tech Aero Incorporated: *See—*
Conlin, William P., 3,486,771.
Tech Consolidated Inc.: *See—*
Feather, Alec, 3,429,960.
Tech, Donald D., to International Business Machines Corporation. Display formating control. 3,479,605, 11-18-69, Cl. 328-186.
Techem Gesellschaft zur Auswertung Technisch Chemischer Verfahren und Patente mit Beschrankter Haftung: *See—*
Wesp, Adam, 3,464,268.
Techicon Corporation: *See—*
Isreeli, Jack, 3,482,082.
Techler, Thomas W.; and Thompson, Richard G., to L & A Products, Inc. Aspirator control apparatus. 3,467,022, 9-16-69, Cl. 103-272.
Technautics Corporation: *See—*
Caplan, Richard, 3,475,915.
Technequip Company Limited, The: *See—*
Harper, Winston J., 3,444,881.
Techni-Chem Company, The: *See—*
Sheehan, Desmond, 3,485,821.
Techni-Rite Industrial Park: *See—*
Ondis, Albert W., 3,441,948.
Technical Appliance Corporation: *See—*
Leitner, Robert T., 3,441,935.
Leitner, Robert T., 3,444,558.
Technical Industries, Inc.: *See—*
Walter, Robert Campbell; and Osborn, Ralph K., 3,483,399.
Technical Innovations Incorporated: *See—*
Marks, George B.; Marks, John W.; Marks, Herman J.; and Piacitelli, Frank J., Jr., 3,458,849.
Technical Investment Corporation: *See—*
Nevarez Ocampo, Ricardo J., 3,436,052.
Technical Marketing Associates, Inc.: *See—*
Rowell, William G., 3,421,156.
Technical Material Corporation, The: *See—*
Dickey, Richard K., 3,421,062.
Technical Oil Tool Corporation: *See—*
Gamson, Bernard W., 3,440,865.
Technical Operations, Incorporated: *See—*
Buck, Willard E., 3,463,582.
Buck, Willard E., 3,480,353.
Hauer, Charles R., 3,466,127.
Heckscher, Helmut, 3,478,661.
Heinonen, Russell M., Jr., 3,479,114.

Herbold, Robert J., 3,463,882.
Holland, Thomas E., 3,432,239.
Justh, Bruce; and Zinky, William R., 3,427,090.
Landre, John K., 3,450,455.
Miller, Carlton S.; and Parsons, Frederick G., 3,424,534.
Mueller, Peter F.; and Parrent, George B., Jr., 3,425,770.
Smith, Albert E., 3,454,330.
Smyth, Robert R., 3,424,973.
Teeple, Lawrence R., Jr., 3,422,219.
Technical Ordnance, Inc.: *See—*
Hanson, Ralph W., 3,419,960.
Technical Processing, Inc.: *See—*
Aron, Erwin, 3,434,991.
Aron, Erwin, 3,437,621.
Technical Wire Products, Inc.: *See—*
Nellis, Stewart; and Lamp, Richard W., 3,431,348.
Technician Corporation: *See—*
Smythe, William J., 3,425,560.
Technic, Inc.: *See—*
Moore, Thomas R., Jr.; and Butler, Florence P., 3,458,542.
Shoushanian, Hrant H., 3,475,292.
Technicon Corporation: *See—*
Bilichniansky, Theodore; Isreeli, Jack; and Smythe, William J., 3,425,357.
Catravas, George N., 3,474,908.
Heimann, Richard H., 3,479,196.
Isreeli, Jack; and Skeggs, Leonard T., 3,479,142.
Isreeli, Jack; Smythe, William J.; and Larrabee, Edward W., 3,481,708.
Skeggs, Leonard T., 3,424,557.
Smythe, William J., 3,435,684.
Smythe, William J.; and Shamos, Morris H., 3,479,141.
Smythe, William J.; and Shamos, Morris H., 3,484,170.
Technicon Instruments Corporation: *See—*
Isreeli, Jack; and Skeggs, Leonard T., 3,464,794.
Pelavin, Milton H.; Weschler, William A.; and Negersmith, Kent M., 3,427,135.
Technicraft Corporation, The: *See—*
Rasmussen, Robert F., 3,451,162.
Technigaz: *See—*
Alleaume, Jean, 3,456,911.
Alleaume, Jean, 3,471,983.
Alleaume, Jean, 3,479,484.
Alleaume, Jean, 3,485,596.
Technikoil, Inc.: *See—*
Zimmerman, Marlin U., Jr., 3,442,789.
Technion Corporation: *See—*
Smythe, William J.; Shamos, Morris H.; and Griffin, Gary A., 3,480,369.
Technion Research and Development Foundation, Ltd.: *See—*
Schmuckler, Gabriella, 3,473,921.
Technipower, Incorporated: *See—*
Schaefer, Johannes M., 3,439,251.
Schaefer, Johannes M., 3,474,325.
Schaefer, Johannes M., 3,474,346.
Schaefer, Johannes M., 3,487,323.
Technische Hogeschool Eindhoven (Technical University Eindhoven): *See—*
Schneider, Friedrich August, 3,462,306.
Techniservice Corporation: *See—*
Daniel, Benjamin S., 3,479,709.
Fisher, Sallie A., 3,432,251.
Hampel, Frederick J. E., 3,461,658.
Irwin, Malcolm F.; Musselman, Carl T.; and Stanley, Robert K., 3,440,701.
Irwin, Malcolm F.; and Hampel, Frederick J. E., 3,461,661.
Irwin, Malcolm F.; and Hampel, Frederick J. E., 3,474,615.
Stanley, Robert Kenneth, 3,435,497.
Stanley, Robert Kenneth, 3,440,699.
Stanley, Robert K.; and Robinette, Hillary, Jr., 3,432,898.
Stanley, Robert K., 3,435,608.
Stanley, Robert K., 3,462,814.
Stanley, Robert K., 3,462,815.
Technit Engineering Company, Inc.: *See—*
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez, 3,462,538.
Techno-Chemie Kessler & Co., GmbH: *See—*
Beck, Heinz, 3,447,573.
Techno-Components Corporation: *See—*
Tumbusch, Edward H., 3,448,426.
Technoimpex Magyar Gepipari Kulkereskedelmi: *See—*
Viltschek, Endre; and Gal, Laszlo, 3,427,846.
Technology Incorporated: *See—*
Trageser, James H., 3,433,069.
Technology Instrument Corporation of California: *See—*
Boehm, Helmut, 3,440,386.
Detweiler, William I.; and Connally, Billie M., 3,427,548.
Techtmann, Herbert F. Indexing type of filling machine with bottom flap valve. 3,477,617, 11-11-69, Cl. 222-370.
Tecnifax Corporation: *See—*
Habib, David P.; Allard, Robert S.; and Zabik, Eugene J., 3,479,183.
TECNOMA: *See—*
Ballu, Vincent P. M., 3,428,255.
Ballu, Vincent P. M., 3,433,393.
Te Company, The: *See—*
Harris, Clyde W., 3,455,623.
Neiswander, Robert S.; and Rhiner, Walter, 3,466,389.
Tectonic Industries, Incorporated: *See—*
Krystof, Joseph P., 3,471,898.
Tecumseh Products Company: *See—*
Geisenhaver, Arthur J., 3,464,107.
Hannibal, Billy B.; and Hover, Paul B., 3,445,059.
Hover, Paul B., 3,451,615.
Nelson, Eugene L., 3,451,383.
Rundell, Theodore W.; and Randall, Freddie D., 3,476,308.
Tedan, Inc.: *See—*
Kelley, Theron R., 3,422,637.
Kelley, Theron R., 3,460,875.
Tedd, David C., to Eaton Yale & Towne, Inc. Battery discharge indicator for use in an industrial truck. 3,447,053, 5-27-69, Cl. 318-139.
Tedd, David Clifford, to Eaton Yale & Towne, Inc. Circuit for indicating when a battery is discharged. 3,447,060, 5-27-69, Cl. 320-48.
Teder, Harry, to Telex Corporation, The. Adjustable headset. 3,447,160, 6-3-69, Cl. 2-209.
Tedeschi, Alberto. Apparatus for attachment to an inlet box of a cold-rolling train. 3,438,474, 4-15-69, Cl. 193-1.
Tedeschi, Anthony, to Western Electric Company, Incorporated. Bridge circuit with variable scale ratio and resolution. 3,445,764, 5-20-69, Cl. 324-59.
Tedeschi, Ralph E.; and Weinstock, Joseph, to Smith Kline & French Laboratories. 2,6-Bis-(Lower alkanamido)pyridines. 3,455,942, 7-15-69, Cl. 260-295.
Tedeschi, Ralph E.: *See—*
Loev, Bernard; and Tedeschi, Ralph E.,3,441,648.
Tedeschi, Robert J.; and Clark, George S., Jr., to Air Reduction Company, Incorporated. Preparation of acetylenic glycols. 3,462,499, 8-19-69, Cl. 260-635.
Tedeschi, Robert J.; and Moore, George L., to Air Reduction Company, Incorporated. Process for the preparation of alkali metal acetylides. 3,441,621, 4-29-69, Cl. 260-665.
Tedeschi, Robert J.; and Moore, George L., to Air Reduction Company, Incorporated. Molybdenum hexacarbonyl-acetylene reaction product. 3,474,117, 10-21-69, Cl. 260-429.
Tedeschi, Robert J.; and Moore, George L., to Air Reduction Company, Incorporated. Palladous chloride-acetylene reaction product. 3,474,118, 10-21-69, Cl. 260-429.
Tedeschi, Robert J.; and Moore, George L., to Air Reduction Company, Incorporated. Nickel cyanide-acetylene reaction product. 3,474,119, 10-21-69, Cl. 260-439.
Tedeschi, Robert J.; and Moore, George L., to Air Reduction Company, Incorporated. Nickel bromide-acetylene reaction product. 3,474,120, 10-21-69, Cl. 260-439.
Tedeschi, William R.: *See—*
Freedman, Bernard J.; Georgetti, Richard A.; and Tedeschi, William R.,3,420,760.
Tedon, Inc.: *See—*
Kelley, Theron R., 3,448,949.
Tee-Pak, Inc.: *See—*
Arnold, Lionel C., 3,454,982.
Arnold, Lionel C., 3,461,484.
Beyer, Myron S., 3,462,329.
Bridgeford, Douglas J., 3,429,735.
Bridgeford, Douglas J., 3,450,555.
Bridgeford, Douglas J., 3,451,827.
Bridgeford, Douglas J.; and Turbak, Albin F., 3,480,380.
Bridgeford, Douglas J., 3,484,433.
Clark, Sidney B., 3,438,071.
Cline, Jack V., 3,463,305.
Martinek, Thomas W., 3,454,981.
Martinek, Thomas W., 3,456,286.
Martinek, Thomas W., 3,462,794.
Rose, Henry J.; and Turbak, Albin F., 3,427,169.
Talty, Robert D., 3,425,846.
Talty, Robert D., 3,425,847.
Talty, Robert D., 3,446,633.
Turbak, Albin F.; and Rose, Henry J., 3,427,168.
Turbak, Albin F., 3,442,663.
Washburn, Harry G., 3,454,980.
Wilmsen, George M.; and Alsys, Clarence M., 3,474,662.
Tee-Pak of Canada, Limited: *See—*
Mundie, John, 3,446,691.
Teeg Research, Inc.: *See—*
Teeg, Robert O., 3,428,475.
Teeg, Robert O.; and Hallman, Robert W., 3,438,022.
Teeg, Robert O.; and Hallman, Robert W., 3,455,724.

Teeg, Robert O., to Teeg Research, Inc. High strength glass and method for making the same. 3,428,475, 2-18-69, Cl. 117-54.
Teeg, Robert O.; and Hallman, Robert W., to Teeg Research, Inc. Thermochromic display device. 3,438,022, 4-8-69, Cl. 340-324.
Teeg, Robert O.; and Hallman, Robert W., to Teeg Research, Inc., mesne. Processes of preparing vanadium suboxide coatings. 3,455,724, 7-15-69, Cl. 117-62.
Teeling, Gerhardus A. M.: *See*—
Jacobs, Jacques M. H.; Hermsen, Andreas A. M.; Hendriks, Aalbert J.; and Teeling, Gerhardus A. M.,3,423,076.
Teeple, Lawrence R., Jr., to Technical Operations, Incorporated, mesne. High density data storage system. 3,422,219, 1-14-69, Cl. 178-6.7
Teeple, Stanley W., to Wheelock Signals, Inc. Bell and striker mounting apparatus. 3,440,649, 4-22-69, Cl. 340-396.
Teerling, Martinus; and Ruppert, Horst, to Maschinenfabrik Moenus A.G. Shoemaking machine. 3,434,169, 3-25-69, Cl. 12-12.
Teeter, Ford C., to Sinclair Research, Inc. Process for grinding glass with diamond grinding surface and alkali metal soap emulsifiable composition. 3,460,295, 8-12-69, Cl. 51-283.
Teeter, Ford C.; Sheldahl, David B.; and Highberg, Carle W., said Teeter and said Sheldahl assors to Sinclair Research, Inc., and said Highberg assor. to Engelhard Hanovia, Inc. Process for grinding glass with diamond grinding surface and an emulsifiable composition. 3,453,784, 7-8-69, Cl. 51-283.
Teeters, Wilbur O., to Hoke Manufacturing Company, Inc. Pipe coupling. 3,433,508, 3-18-69, Cl. 285-341.
Teeters, Wilbur O., to Hoke Manufacturing Company, Inc. Tube coupling having dual ferrule gripping elements with stop means. 3,445,128, 5-20-69, Cl. 285-341.
Teetor, Macy O. Hanging type therapeutic device having adjustable handle height. 3,430,953, 3-4-69, Cl. 272-62.
Tegel, Meindert Johan: *See*—
Boerema, Jan; and Tegel, Meindert Johan,3,469,156.
Teggelaar, Claude; and De Bruyn, William T., to Grand Rapids Hardware Manufacturing Co., mesne. Balance structure for windows and the like. 3,466,806, 9-16-69, Cl. 49-445.
Tegg, Ralph , Jr.: *See*—
Bailey, John M.; Krauja, Ziedonis I.; and Tegg, Ralph , Jr.,3,485,225.
Te Grootenhuis, William D.: *See*—
Dapolito, Joseph J.; and Te Grootenhuis, William D.,3,440,077.
Teicher, Harry: *See*—
Marotta, Ralph; and Teicher, Harry,3,453,127.
Teicher, Harry; and Marotta, Ralph, to Monsanto Company. Organic liquids thickened with treated silica materials. 3,455,826, 7-15-69, Cl. 252-28.
Teichert, Allen L.; and Schrader, George F., to Controls Company of America. Thermostat with anticipator remote from ambient temperature sensor. 3,463,008, 8-26-69, Cl. 73-363.6
Teichmann, Friedrich; Jones, Roscoe L.; and Hopkins, Edwin R., to Grundig, Max. Paper carriage mounting arrangement. 3,444,978, 5-20-69, Cl. 197-149.
Teichmann, Gordon Alger, to Imperial Chemical Industries Limited. Apparatus for burying explosive charges. 3,456,450, 7-22-69, Cl. 61-72.6
Teichmann, Heinrich, to M.A.N. Turbo GmbH. Rotary slide valve for branched pipe lines. 3,429,339, 2-25-69, Cl. 137-625.47
Teijin Limited: *See*—
Chifu, Masao, 3,463,893.
Furusawa, Yutaka; and Otohata, Etsuo, 3,486,865.
Goto, Michio; Takahashi, Yutaro; and Otohata, Etsuo, 3,458,482.
Ichikawa, Yataro; and Suzuki, Nobuo, 3,431,296.
Ichikawa, Yataro; Yamashita, Gentaro; and Iwata, Kazumi, 3,465,013.
Kondo, Shiro; Shiranezawa, Takao; Iida, Hirohiko; and Takahashi, Masayuki, 3,482,389.
Kuwabara, Michichika; Nawata, Kiyoshi; Tsunawaki, Kiyokazu; and Sakakibara, Seizaburo, 3,432,476.
Matsumoto, Ryoso; and Watanabe, Hisao, 3,430,492.
Negishi, Eiichi; Horike, Akihiro; and Ishizuka, Yoshio, 3,467,626.
Ogata, Kazuo; Kazama, Kiyoshi; Suzuki, Shozo; and Morimatsu, Yasuo, 3,442,868.
Shima, Takeo; and Yamada, Hisashi, 3,433,770.
Shima, Takeo, 3,444,141.
Taira, Keon; and Kida, Kazuyoshi, 3,475,892.
Takizawa, Haruki; and Kitamura, Akitomo, 3,450,811.
Tsunawki, Shigemitsu; and Furusawa, Yutaka, 3,459,640.
Uno, Seiji; Kazama, Seiji; and Uno, Fumio, 3,431,243.
Teikoku Dempa Co., Ltd.: *See*—
Takemi, Kiyoji; and Negishi, Tokuji, 3,484,110.
Teitelbaum, Bernard R.: *See*—
Farron, John R.; and Teitelbaum, Bernard R.,3,471,205.
Teitel, Sidney: *See*—
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney,3,464,990.
Teitel, Sidney; and Goldberg, Moses Wolf, deceased0 (by Goldberg, Regina Hauser; executrix), to Hoffann-La Roche Inc.Process and intermediates for N-[4-(2-alkylaminoalkoxy)-- benxyl]-3,4-di-alkoxy benzamides. 3,481,980, 12-20-69, Cl. 260-559.
Teitgen, Jean: *See*—
Azoulay, Adrien; and Teitgen, Jean,3,445,435.
Teixeira, Franklin W. Horseshoe with racing calks. 3,460,627, 8-12-69, Cl. 168-29.
Teixeira, James F., to Sylvania Electric Products, Inc. Probe for a graphic communication system including means for eliminating shunt capacitance effects. 3,444,465, 5-13-69, Cl. 324-72.5
Tejada, Gustavo C.: *See*—
Du Rose, Arthur H.; Willson, Karl S.; and Tejada, Gustavo C.,3,428,441.
Tejeda, Alvaro R.; and Sarli, Vincent G., to Wallace & Tiernan Inc. Methods of manufacturing ion-exchange membranes. 3,453,354, 7-1-69, Cl. 264-113.
Tekkosha Co., Ltd.: *See*—
Adachi, Kazuo; Kawai, Masahisa; and Hoshikawa, Masakatsu, 3,433,790.
Doi, Mineo; Miura, Masamichi; Sakuraba, Ryozo; and Ando, Takeo, 3,429,692.
Tektronix, Inc.: *See*—
Andrews, Roland E., 3,421,102.
Calnon, Donald C., Jr.; Fillinger, Russell V.; Holznagel, Melvin A.; and Stack, Richard W., 3,426,237.
Crosby, Philip S., 3,457,505.
Crosby, Philip S., 3,483,488.
Frisch, Arnold M., 3,487,314.
Frye, George J., 3,434,049.
Gates, John M. P., 3,470,484.
Gibson, Charles B., Jr., 3,421,041.
Gibson, Charles B., Jr., 3,426,238.
Gibson, Charles B., Jr., 3,433,994.
Gifford, Ross W., 3,426,311.
Gifford, Ross W., 3,439,227.
Hayes, Roy M., 3,423,685.
Hoffman, Eldon P., 3,453,403.
Infante, Carlo, 3,422,305.
Long, Gordon D., 3,449,671.
Mepham, Herbert J., 3,426,236.
Moriyasu, Hiro, 3,439,282.
Moriyasu, Hiro, 3,473,044.
Peek, William Henderson; and Hoven, Eldon Lee, 3,482,163.
Peek, William H.; and Bateman, Glenn, 3,475,682.
Stalp, Bernard J., 3,449,619.
Swanno, Joel E., 3,479,075.
Winningstad, Chester N., 3,430,093.
Zulauf, Dieter, 3,446,906.
Telautograph Corporation: *See*—
Neville, Dee J., 3,453,388.
Teldec Telefunken-Decca Schallplatten G.m.b.H.: *See*—
Klemp, Hans-Joachim; and Redlich, Horst, 3,457,374.
Teldix Gesellschaft mit beschrankter Haftung: *See*—
Wehde, Heinz; and Ries, Werner, 3,463,011.
Teldix Luftfahrt-Ausrustungs G.m.b.H: *See*—
Auer, Werner, 3,443,321.
Kaiser, Kurt, 3,449,713.
Leiber, Heinz, 3,467,444.
Riethmuller, Heinz; and Thomaier, Dieter, 3,431,786.
Thomaier, Dieter; and Riethmuller, Heinz, 3,447,845.
Tele-Data, Inc.: *See*—
Rorholt, Bjorn A., 3,478,318.
Tele-Quick Corporation: *See*—
Evans, Royce F., 3,437,390.
Teledyne Exploration Company: *See*—
Chance, Calvin L., 3,440,992.
Luehrmann, William H.; and Parker, William H., 3,461,445.
Teledyne, Inc.: *See*—
Baker, William C.; Benson, James M.; and Hawk, Charles E., 3,443,434.
Charlton, Robert L., 3,450,882.
Cwik, Joseph A., 3,473,361.
Hastings, Charles E.; and Cayouette, Robert L., 3,426,350.
Hatcher, Owen W., Jr., 3,432,792.
Hatcher, Owen W., 3,454,795.
Hershey, Howard S., Jr., 3,428,163.
Irti, Ernest; and Mueller, John H., 3,432,141.
Levedahl, William J., 3,457,436.
Maier, Dale E.; Van Stelle, Richard; and Cwik, Joseph A., 3,456,482.
Maier, Dale E.; and Cwik, Joseph A., 3,457,753.
Markey, Roscoe I., 3,476,009.
Markey, Roscoe I., 3,476,010.
Markey, Roscoe I., 3,476,454.
Miller, Avy L., 3,446,566.
Mueller, John H., 3,457,957.
Murray, Roger W., 3,442,012.
Nuccel, Albert W., 3,463,030.
Pearlman, Alan R., 3,444,362.

Precht, Walter, 3,458,363.
Robert E.; and Pond, Norman H., 3,448,324.
Shih, Cheng, 3,457,437.
Szitar, John E., Jr., 3,477,265.
Weir, Basil, 3,442,003.
Welty, Joseph Melvin, 3,456,166.
Welty, Joseph M., 3,472,710.
Wiesler, Mordecha, 3,436,132.

Teledyne Industries, Inc.: *See—*
Brown, Robert F., Jr., 3,444,332.
Hartmann, Bert E., 3,477,019.
Huang, Yen T., 3,454,876.

Teledyne Systems, Inc.: *See—*
Craig, Robert J. G., 3,430,499.

Teleflex Incorporated: *See—*
Conrad, Winthrop B., 3,426,613.
Conrad, Winthrop B., 3,434,501.
Conrad, Winthrop B., 3,435,107.
Hermanson, Ronald O.; and Hellthaler, Arno, 3,479,903.
Kompanek, Andrew J., Jr.; Phelps, Frederick L., Jr.; and Klotz, James M., 3,423,229.
Loewenstern, Stanley L., 3,429,197.
McCabe, Harold E, 3,438,280.
McCabe, Harold E., 3,464,285.
McCabe, Harold E., 3,464,286.
McCabe, Harold E., 3,464,287.
Tschanz, August E.; and Frank, William L., 3,424,027.
Tschanz, August E., 3,427,894.
Wiegand, Hans; and Salter, Albert F., 3,429,700.
Zieber, George M., Jr., 3,443,451.

Teleflex Products Limited: *See—*
Bentley, James Sydney, 3,452,479.
Hemens, James Frederick, 3,438,468.

Telefonaktiebolaget LM Ericsson: *See—*
Avsan, Oleg; Noren, Lars-Olof; Sparrendahl, Gunnar Erik William; and Svensson, Ake Bertil Fredrik, 3,475,732.
Bengtsson, Hans Georg, 3,435,430.
Bjork, Harold John Carl; and Kilander, Sven Gustav Ingemar, 3,478,172.
Breuer, Hans-Jurgen, 3,448,400.
Busck, Carl Gustaf C., 3,449,701.
Dahlblom, Rolf August; Edstrom, Nils Herbert; and Silwer, Jan 3,469,021.
Diesen, Anton Kristian, 3,467,786.
Edstrom, Nils Herbert, 3,482,047.
Ericsson, Eric R., 3,433,914.
Eriksson, Elof Erik, 3,460,090.
Fjallbrant, Tore Torstensson, 3,473,140.
Fjallbrant, Tore Torstensson, 3,473,141.
Fjallbrant, Tore Torstensson, 3,475,699.
Gameson, John Jeffreys, 3,469,201.
Jacobaeus, Anton Christian, 3,426,157.
Jacobaeus, Anton Christian; and Larsson, Torsten Alrik, 3,472,968.
Karl, Heinz Georg; and Roos, Borje Mats Ingvar, 3,469,212.
Lagercrantz, Bengt Ake; and Nordin, Bengt Anders, 3,483,130.
Lapsevskis, Vilnis; and Svensson, Oake, 3,478,173.
Nordblad, Sven Sigurd, 3,441,654.
Olsson, Jons Kurt Alvar, 3,458,712.
Polasek, Karl Hans; Rudestedt, Sven Jan Einar; and Umblia, Elmar Johannes, 3,420,777.
Polasek, Karl, 3,445,816.
Stromer, Carl-Axel, 3,448,225.
Stromer, Carl-Axel, 3,458,666.
Thorvaldsson, Kurt Egron, 3,460,129.
Umblia, Elmar J.; and Wesemeyer, Heinrich, 3,444,438.
Waldelius, Eric, 3,478,165.
Wesemeyer, Harald Heinrich Kurt, 3,436,624.
Widel, Walter Herbert Erwin, 3,436,730.
Widl, Walter Herbert Erwin, 3,457,511.
Widl, Walter Herbert Erwin, 3,461,239.
Widl, Walter Herbert Erwin, 3,483,510.
Ytterhag, Arne, 3,449,973.

Telefonbau und Normalzeit G.m.b.H.: *See—*
Nirenberg, Hans, 3,450,887.

Telefunken A.G.: *See—*
Froschle, Ernst, 3,436,618.
Schlosshauer, Herbert; and Wahl, Horst, 3,434,017.

Telefunken Patentverwertungs-gesellschaft m.b.H.: *See—*
Borner, Manfred; and Spitzner, Jurgen, 3,445,792.
Bauer, Alfred; and Klossika, Walter, 3,450,956.
Berger, Richard, 3,425,122.
Borner, Manfred; and Schussler, Hans, 3,437,848.
Bruch, Walter, 3,474,190.
Brunner, Heinz, 3,427,621.
Burkhardt, Gisbert; and Deibler, Anton, 3,481,446.
Dahlberg, Reinhard, 3,460,008.
Engbert, Wilhelm, 3,445,303.
Gerstner, Dieter, 3,461,566.
Gerstner, Dieter; Ehlbeck, Heinz-Wilhelm; and Epple, Richard, 3,462,656.
Grimm, Wilhelm; Guntsch, Fritz Rudolf; Strauss, Werner; and Luther, Gunther, 3,426,179.
Hennings, Klaus; and Schutze, Hans-Jurgen, 3,456,335.
Hennings, Klaus; and Schutze, Hans-Jurgen, 3,462,322.
Hennings, Klaus; Schutze, Hans-Jurgen; and Ulbricht, Gerhard, 3,462,650.
Korn, Joel, 3,460,039.
Krank, Wolfgang; and Schickle, Gerhard, 3,444,487.
Kusch, Heinz, 3,445,594.
Lackner, Peter, 3,471,812.
Lotz, Johannes, 3,461,537.
Lutz, Georg, 3,468,018.
Mallebrein, Rainer, 3,435,281.
Maute, Hans-Jurgen, 3,466,510.
Michel, Hartmut; and Seiter, Gerd, 3,424,627.
Ohnsorge, Horst; and Haller, Ulrich, 3,458,654.
Pollak, Alfred, 3,439,115.
Scholz, Werner, 3,446,913.
Schutze, Hans-Jurgen; and Hennings, Klaus, 3,419,955.
Schutze, Hans-Jurgen; and Hennings, Klaus, 3,427,708.
Schutze, Hans-Jurgen; and Hennings, Klaus, 3,427,709.
Schutze, Hans-Jurgen; and Hennings, Klaus, 3,461,548.
Schweizerhof, Sigfrid, 3,439,257.
Schweizerhof, Sigfrid; and Schafer, Siegfried, 3,482,225.
Schweizerhof, Sigfrid; and Schafer, Siegfried, 3,483,538.
Sohn, Werner, 3,450,361.
Viernickel, Konrad, 3,444,101.
Weber, Herbert; Lange, Gunter; Muller, Hubert; Von Fellner, Michael; and Heer, Roland, 3,435,376.

Teleglobe Pay-TV System, Inc.: *See—*
Walker, Harold R., 3,439,113.
Walker, Harold R., 3,440,338.

Telehoist Limited: *See—*
Darwent, Colin, 3,444,819.

Teleky, Walter. Wall safe. 3,481,288, 12-2-69, Cl. 109-58.

TelePro Industries Incorporated: *See—*
Schafly, Hubert J., 3,459,084.
Townsend, Charles L.; and McGowan, Jared M., 3,420,965.

Teleprompter Corporation: *See—*
Schlafly, Hubert J., Jr., 3,473,339.

Teletek, Inc.: *See—*
LaBrage, Louis P., 3,423,533.

Teletype Corporation: *See—*
Arko, Robert E., 3,420,948.
Barry, Philip H.; and Vee, Richard F., 3,468,491.
Cook, Harold D., 3,439,332.
Cragg, Richard E., 3,468,492.
Franks, Kenneth W., 3,461,045.
Glasson, Jerry M., 3,456,239.
Glasson, Jerry M., 3,472,956.
Grubbe, Raymond J., 3,483,049.
Hansen, Theodore A., 3,461,313.
Johnsen, James Alvin; and Peterson, John Loran, 3,432,772.
Kerwin, Walter J., 3,420,947.
Kim, George A., 3,432,784.
Le Jeune, Raymond E., 3,451,634.
Lindberg, Arthur F., 3,432,676.
Mc Clelland, Walter B., 3,473,150.
Metz, Jack L., 3,460,244.
Meyers, Gordon C.; and Vessel, Richard L., 3,445,592.
Nash, Leonard A., 3,456,078.
Olsen, Alf J., 3,473,033.
Oslund, Roger I., 3,479,456.
Petry, Richard E., 3,439,189.
Purzycki, Alfred Z., 3,439,303.
Randolph, John E., 3,444,701.
Randolph, John E.; and Wood, Adrian D., 3,461,413.
Reszka, Alfons, 3,427,584.
Seibert, Thomas M., 3,455,737.
Seidlitz, Raymond R., 3,452,253.
Slayton, Ransom D., 3,439,335.
Smessaert, Raymond R., 3,440,344.
Tourville, Thomas W., 3,452,154.
Winston, Charles R., 3,432,844.
Winston, Charles R., 3,484,794.

Television Research Limited: *See—*
Reed, Gordon Howard, 3,470,327.

Televiso Electronics: *See—*
Schneider, Martin E., 3,451,518.
Seversen, Gordon F., 3,478,855.

Telex Corporation, The: *See—*
Crosby, Arthur O., 3,431,370.
Teder, Harry, 3,447,160.

Telex Inc.: *See—*
Harrison, Wayne E.; and Jatras, Stephen J., 3,482,254.

Telfer, Henri E. Liquid dispensing apparatus having a dispensing top closure. 3,476,295, 11-4-69, Cl. 222-183.

Telfer, Henri E. Collapsible sorting trays. 3,480,154, 11-25-69, Cl. 211-126.
Telford, Carlyle O.; and Butts, Frank G. Malsbary Manufacturing Company Pumping system. 3,485,176, 12-23-69, Cl. 103-9.
Telford, Carlyle O.: *See—*
Pritchard, Clarence L.; and Telford, Carlyle O.,3,467,016.
Telford, Thomas L. Height gauge having precision adjustment means. 3,481,040, 12-2-69, Cl. 33-169.
Telkes, Maria, to Dow Chemical Company, The. Large celled material. 3,440,130, 4-22-69, Cl. 161-5.
Tellen, Chester J.: *See—*
Weyrich, Arthur G.; and Tellen, Chester J.,3,485,456.
Teller, Aaron J., to Wellman-Lord, Inc. Storage building. 3,470,811, 10-7-69, Cl. 98-33.
Teller, Daniel M.; Douglas, George H.; and Smith, Herchel, to American Home Products Corporation. Novel intermediates in the preparation of 13- polycarbonalkyl-17α-hydroxy-18,19-dinorpregn-4- en-3,20-diones and acylates thereof. 3,465,009, 9-2-69, Cl. 260-397.4
Tellerico, Joseph Anthony, Jr.: *See—*
Gagliardi, Anthony J.; and Tellerico, Joseph Anthony, Jr.,3,464,730.
Teller, Joseph D., to Worthington Biochemical Corporation. Production of asparaginase. 3,440,142, 4-22-69, Cl. 195-66.
Tellerman, Edward M., to Stop-Motion Devices Corporation. Circuit for controlling drive of rotating machine. 3,474,298, 10-21-69, Cl. 317-148.5
Tellerman, Edward M.; and Larsen, Robert A., to Continental Instruments Corp. Theft-preventing alarm device. 3,425,050, 1-28-69, Cl. 340-256.
Telliez-Metadier, Raymond, to Decauville S.A. Boiler. 3,435,807, 4-1-69, Cl. 122-136.
Tellkamp, Robert G.: *See—*
Hasselmann, Detlev E.; Tellkamp, Robert G.; and Hetherington, Gary L.,3,437,568.
Tell, Karl Gunnar: *See—*
Siwersson, Olle Lennart; and Tell, Karl Gunnar,3,476,296.
Siwersson, Olle Lennart; and Tell, Karl Gunnar,3,478,970.
Telonic Industries, Inc.: *See—*
Wainwright, Claire R., 3,427,536.
Welsh, Neil R., 3,427,535.
Telsta Corporation: *See—*
Eitel, Jay M., 3,437,175.
Fitel, Jay M.; and Leigh, Bertram J., 3,480,109.
Leigh, Bertram J., 3,423,890.
Telstar Engineers, Inc.: *See—*
Tope, Clarke B., 3,427,937.
Teltronic Measurement Systems, Inc.: *See—*
Mixsell, Stephen A.; and Mead, Hansel B., 3,456,192.
Teltron, Inc.: *See—*
Miller, Carl L., Jr.; and Miller, Robert G., Jr., 3,437,256.
Teltschik, Walter: *See—*
Friz, Hans; Neumayr, Franz; Reichert, Martin; Teltschik, Walter; and Wagner, Ulrich,3,452,114.
Lehrer, Erwin; and Teltschik, Walter,3,460,915.
Telyatnikov, Garry Vladimirovich; Khodorov, Evgeny Iosifovich; Evtjutov, Anatoly Akindinovich; Skopa, Denis Denisovivh; Chervinsky, Anatoly Alexeevich; Shilov, Alexandr Vladimirovich; and Kazantseva, Nina Mikhailovna. Heat exchanger for powdered materials suspended in gases. 3,444,628, 5-20-69, Cl. 34-57.
Temcor: *See—*
Richter, Donald L., 3,477,752.
Temco Tools Limited: *See—*
English, Francis Guy Sydenham, 3,483,629.
Tempalski, Chester S.: *See—*
McGrath, Joseph J.; and Tempalski, Chester S.,3,478,087.
Tempel, George F., to Electronic Associates, Inc. Overload and out-of-regulation indicator for plural power supplies. 3,440,632, 4-22-69, Cl. 340-248.
Tempel, Gerhard W., to Omsteel Industries, Inc. Electromechanical transducer material. 3,451,032, 6-17-69, Cl. 338-114.
Tempelhof, Hermann, to Etablissements H. Tempelhof Neuchatel-Serrieres. Firemen's quick-action trousers. 3,484,870, 12-23-69, Cl. 2-227.
Tempelhof, Jonas. Transport and display container for small objects on supporting cards. 3,471,006, 10-7-69, Cl. 206-44.12
Tempil Corporation: *See—*
Edlein, Saul; Kasanof, David R.; and Kimmel, Elias, 3,471,422.
Tempking Corporation: *See—*
Hergott, Raymond W., 3,424,236.
Temple, Ernest E.: *See—*
Temple, Robert; Temple, Ernest E.; and Giebel, Joseph L.,3,449,993.
Temple, Fred; and Reno, William H., to Westinghouse Air Brake Company. Automatic railway air hose connector. 3,476,407, 11-4-69, Cl. 285-12.
Temple, Hiram E., to Baker Perkins Inc. Continuous bakery product handling system. 3,450,068, 6-17-69, Cl. 107-4.
Temple, Hiram E., to Baker Perkins Inc. Baking pan unit. 3,463,344, 8-26-69, Cl. 220-23.2
Temple, Hiram E., to Baker Perkins Inc. Bakery product handling system. 3,466,835, 9-16-69, Cl. 53-26.
Temple, Hiram E., to Baker Perkins Inc. Bakery product handling system. 3,466,839, 9-16-69, Cl. 53-55.
Temple, Hiram E., to Baker Perkins Inc. Packaged bakery product orienting method and mechanism. 3,482,673, 12-9-69, Cl. 198-33.
Temple, Lemuel M. Adapter for semiautomatic radiotelegraph key. 3,431,354, 3-4-69, Cl. 178-82.
Temple, Lowell D.: *See—*
Miller, Marion R.; and Temple, Lowell D.,3,448,647.
Templer, David I.: *See—*
Rudnitzki, Alexis J.; and Templer, David I.,3,478,086.
Temple, Robert; Temple, Ernest E.; and Giebel, Joseph L., to Mine Safety Appliances Company. Heavy duty pipe cutting tool. 3,449,993, 6-17-69, Cl. 83-639.
Templet Industries Incorporated: *See—*
Rheingold, Lawrence M.; and Berlin, Milton, 3,445,617.
Templeton Coal Comany: *See—*
Morey, Glen H., 3,424,637.
Templeton Coal Company: *See—*
Morey, Glen H., 3,424,362.
Morey, Glen H., 3,425,864.
Morey, Glen H., 3,430,032.
Morey, Glen H., 3,484,585.
Templeton, John B. Land and-water form carriers or supports. 3,454,134, 7-8-69, Cl. 182-141.
Templeton, John B. Boom and bracing. 3,477,522, 11-11-69, Cl. 173-43.
Templeton, John Glenn; and Schuitema, Howard J., to Rose Patch & Label Company. Label packaging and handling. 3,459,297, 8-5-69, Cl. 206-56.
Templeton, Kenley & Co.: *See—*
Krantz, Donald Victor, 3,469,399.
Templeton, Leslie W., to Collins Radio Company. Connector RFI seal spring. 3,426,140, 2-4-69, Cl. 174-35.
Templeton, Richard: *See—*
Lee, Thomas Brian; and Templeton, Richard,3,484,445.
Templeton, William B., to Burroughs Corporation. Line find apparatus. 3,456,772, 7-22-69, Cl. 197-127.
Temple, Trevor, to Raytheon Company. Pulse generating systems. 3,445,675, 5-20-69, Cl. 307-88.
Temple University: *See—*
Tansy, Martin F., 3,426,136.
Temple, Wescomb O. Control line tension regulator. 3,461,745, 8-19-69, Cl. 74-751.
Temple, Wilfred Keith, to Newall Engineering Company Limited, The. Grinding machines. 3,440,771, 4-29-69, Cl. 51-165.
Temple, Wilfred Keith, to Newall Engineering Company Limited, The. Grinding apparatus. 3,457,678, 7-29-69, Cl. 51-5.
Templin, Jackson R., to General Motors Corporation. Electronic direct current switching circuit. 3,427,477, 2-11-69, Cl. 307-252.
Templin, Jackson R.; and Zickel, Thomas A., to General Motors Corporation. Vacuum temperature control system with hold. 3,460,754, 8-12-69, Cl. 237-2.
Temprite Products Corporation: *See—*
Castillo, Herman B., 3,435,627.
Castillo, Herman B., 3,468,370.
Ten Brink, Karl C.; and Woodward, Charles D., to Texaco Inc. Gas injectivity or productivity profile logging. 3,435,672, 4-1-69, Cl. 73-155.
Tenbroek, Henry W.: *See—*
Seashore, Charles R.; and Tenbroek, Henry W.,3,460,066.
Ten Cate, Wilhelm, to Nederlandse Centrale Organisatie voor schappelijk Onderzoek ten behoeve van Nijverheid. Measuring element for dynamometers. 3,433,063, 3-18-69, Cl. 73-141.
Tench, John R., to Westinghouse Electric Corporation. Storage battery with detachable cover having lifting means. 3,457,119, 7-22-69, Cl. 136-170.
Tench, John R., to Westinghouse Electric Corporation. Storage battery plate insulation. 3,476,612, 11-4-69, Cl. 136-147.
Tenconi, Franco: *See—*
Fusco, Raffaello; and Tenconi, Franco,3,433,789.
Fusco, Raffaello; and Tenconi, Franco,3,439,099.
Fusco, Raffaello; and Tenconi, Franco,3,439,104.
Tenczar, Francis J. Filter probe. 3,430,497, 3-4-69, Cl. 73-425.6
Tendler, Moses D. Production of cellulase, antibiotic and anti-tumor substances by growing eumyces ATCC 16425. 3,438,864, 4-15-69, Cl. 195-66.
Tenenbaum, Nathaniel D.; and Marieni, Gino J., to Westinghouse Electric Corporation. Circuit-controlling systems. 3,440,491, 4-22-69, Cl. 317-22.
Tenenouser, Louis A. Dispenser. 3,428,099, 2-18-69, Cl. 141-380.
Tenex Corporation: *See—*
Hlinka, Charles F., 3,430,291.
Tenex Corporation, The: *See—*
Barstow, William F., 3,464,801.
Ten Eyck, Robert S. Metallic coded card with magnetic reed switch reader. 3,465,131, 9-2-69, Cl. 235-61.11
Tenka-Automaten, Kirschner & Co., Firma: *See—*
Fritsche, Walter, 3,442,466.

Tenkoff, Emil. Tumbler construction and lock using the same. 3,455,128, 715-69, Cl. 70-361.
Tennant, G. H., Company: *See—*
Ryan, Lilburn T., 3,427,749.
Tenneco Chemicals, Inc.: *See—*
Barch, John J.; and Minieri, Pasquale P., 3,437,678.
Barch, John J., 3,476,790.
Blum, Oscar A., 3,468,942.
DeGaetano, Joseph F.; and Deinet, Adolph J., 3,466,164.
Doyle, William C., Jr., 3,433,815.
Girard, Theodore A., 3,438,915.
Green, Richard, 3,424,819.
Hoch, Samuel, 3,426,051.
Hughes, William G.; Weiss, Samuel; and Lambiris, John, 3,446,854.
Minieri, Pasquale P., 3,454,611.
Minieri, Pasquale P., 3,479,380.
Royals, Edwin E.; and Doyle, William C., Jr., 3,453,251.
Royals, Edwin E., 3,468,854.
Sidi, Henri, 3,428,606.
Stump, Joseph H., Jr., 3,451,890.
Winkler, Joseph, 3,460,921.
Winkler, Joseph, 3,460,922.
Yakimik, Harry, Jr., 3,458,566.
Tenneco Inc.: *See—*
McEathron, Gareld R., 3,486,685.
Tenneco Oil Company: *See—*
Fitzgerald, Benny M., 3,441,083.
Gilchrist, Ralph E.; and Nance, Charles W., 3,483,730.
Stipp, Louis C.; and Williford, Richard A., 3,482,633.
Tennenhouse, Gerald J., to General Motors Corporation. Low friction elastomers. 3,423,377, 1-21-69, Cl. 260-80.7
Tennenhouse, Gerald J., to General Motors Corporation. Elastomers having a low coefficient of friction. 3,423,380, 1-21-69, Cl. 260-85.1
Tennenhouse, Gerald J., to Ford Motor Company. Method of making a solid ionic conductor. 3,446,677, 5-27-69, Cl. 136-153.
Tennenhouse, Gerald J., to Ford Motor Company. Solid state ionic conductor and method of making. 3,468,719, 9-23-69, Cl. 136-153.
Tennenhouse, Gerald J., to Ford Motor Company. Method for preparing solid state ionic conductor. 3,475,225, 10-28-69, Cl. 136-153.
Tennent, David M.: *See—*
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M.,3,439,000.
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M.,3,442,913.
Tenner, Arnold J.: *See—*
Conley, Kurt H.; and Tenner, Arnold J.,3,430,872.
Tennessee Corporation: *See—*
Barker, James E., 3,420,623.
Barker, James E., 3,457,035.
Barker, James E.; and Robinson, Julian E., 3,462,242.
Trebes, Edward J., 3,466,228.
Tennessee Valley Authority: *See—*
Allgood, Hilland Y.; and Lancaster, Fred E., Jr., 3,442,611.
Davis, Charles H., 3,436,205.
Farr, Thad D.; Walters, Henry K., Jr.; and Fleming, Julius D., 3,484,192.
Hicks, Gordon C., 3,464,809.
Megar, George H.; and Hendrix, Arnett, 3,428,430.
Philen, Otis D., Jr.; Silverberg, Julius; and Norton, Melvin, 3,423,199.
Slack, Archie V., 3,477,843.
Tennett, Anthony Alastair Baxter: *See—*
Lambert, George; and Tennett, Anthony Alastair Baxter,3,436,249.
Tenney Engineering, Inc.: *See—*
Nacht, Ronald L., 3,459,463.
Tennies, James O.: *See—*
Hein, Charles E.; and Tennies, James O.,3,439,963.
Tennis, Francis H., to Koehring Company, mesne. Pilot governed control valve mechanism. 3,447,567, 6-3-69, Cl. 137-596.13
Tennis, Francis H., to Koehring Company, mesne. Piston and rod assembly. 3,457,842, 7-29-69, Cl. 92-200.
Tennis, Francis H., to Koehring Company, mesne. Pilot controllable valve mechanism. 3,464,443, 9-2-69, Cl. 137-596.12
Tennis, Francis H., to Koehring Company. Pilot controllable valve mechanism. 3,464,444, 9-2-69, Cl. 137-596.12
Tennis, Francis H., to Koehring Company, mesne. Hydraulic control valve with void prevention means. 3,465,788, 9-9-69, Cl. 137-596.
Tennis, Francis H., to Koehring Company, mesne. Valve controlled filter change indicator. 3,474,906, 10-28-69, Cl. 210-90.
Tenniswood, David M., to Ford Motor Company. Collapsible steering shaft coupling for a motor vehicle. 3,472,093, 10-14-69, Cl. 74-492.
Tenniswood, David M., to Ford Motor Company. Dual master cylinger. 3,486,337, 12-30-69, Cl. 60-54.6
Tenorio, Carlos A. Method and apparatus for the removal and disposal of scale. 3,441,502, 4-29-69, Cl. 210-49.
Ten Pas, Warren Edward; Schnell, Ernst Emil; and Polzin, Donald Herman, to Deere & Company. Adjustable partition for combination grain and fertilizer hopper. 3,432,064, 3-11-69, Cl. 220-22.
Tenpas, Emerson J.: *See—*
Israelson, Arlo F.; and Tenpas, Emerson J.,3,454,913.
Tenshin Manicounting Machine Co. (Tenshin Kahei Keisanki K.K.): *See—*
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi, 3,454,017.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi, 3,469,365.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkihi; and Osako, Kyoichi, 3,476,125.
Tension Envelope Corporation: *See—*
Berkley, Eugene B., 3,457,696.
Berkley, Eugene Bertram, 3,452,652.
Tensor Corporation, The: *See—*
Lee, Richard G., 3,439,746.
Tenthoff, Aloys: *See—*
Loddenkemper, Franz Josef; and Tenthoff, Aloys,3,445,062.
Teodorescu, Honoriu Dan, to Ministerul Industriei Constructiilor de Masini. Converter amplifier. 3,486,078, 12-23-69, Cl. 317-123.
Teotino, Uberto; and Bella, Davide Della, to Whitefin Holding S. A.Antispasmodic and gastric antisecretory compositions containing ρ-phenylphenacyl derivatives of l- hyoscyamine and d,l-tropylatropine. 3,436,458, 4-1-69, Cl. 424-265.
Teo, William: *See—*
Bennett, Jack P.; Harring, Charles A.; and Teo, William,3,441,849.
Teplitz, Alfred, to United States Steel Corporation. Rapid-action valve operator. 3,443,787, 5-13-69, Cl. 251-58.
Tepolt, Florian E.: *See—*
Heaslip, Donald B.; and Tepolt, Florian E.,3,461,351.
Tepper, Frederick, to Mine Safety Appliances Company. Low melting KO_2-Nα O_2 eutectic compositions. 3,446,744, 5-27-69, Cl. 252-186.
Tepper, Richard I., to Scientific Music Industries, Inc. Chord striking mallet. 3,460,424, 8-12-69, Cl. 84-404.
Tepper, Sidney, to Topper Corporation, mesne. Device for playing a word game. 3,463,487, 8-26-69, Cl. 273-1.
Tepper, Sidney; and Boydman, Hyman P., to De Luxe Topper Corporation. Tearing and pouting doll. 3,444,645, 5-20-69, Cl. 46-135.
Ter-Sarkisov, Beniamin Georgievich: *See—*
Aliev, Nagab Safarovich; Kasimova, Adilya Khanum Panakh-Kyzy; and Ter-Sarkisov, Beniamin Georgievich,3,453,344.
Terado Corporation: *See—*
Munson, Donald G., 3,450,893.
Terajima, Makoto, to Nippon Telegraph and Telephone Public Corporation. Process for producing a ferromagnetic thin film. 3,420,756, 1-7-69, Cl. 204-38.
Terakawa, Haruyuki, to Shionogi & Co., Ltd. Apparatus for fluidized drying and separation. 3,456,360, 7-22-69, Cl. 34-57.
Teramae, Akira; Shinmyo, Kyozo; Kado, Staoshi; Otoguro, Yasuo; Noda, Ikuya; Ikeda, Tsugio; and Nakanishi, Shoichi, to Fuji Iron & Steel Co., Ltd. Corrosion resistant low-alloy steel. 3,459,538, 8-5-69, Cl. 75-125.
Teramoto, Kazuo; and Nakayama, Yasuaki, to Citizen Tokei Kabushiki Kaisha. Quick-acting feed mechanism for day-and-date indicator means of timepiece. 3,438,196, 4-15-69, Cl. 58-58.
Teranishi, Akihiko. Electric massager. 3,468,304, 9-23-69, Cl. 128-36.
Teranishi, Hiroshi: *See—*
Samejima, Horotoshi; Teranishi, Hiroshi; and Deguchi, Takashi,3,435,026.
Teranishi, Tsunekazu; and Nakamura, Takeshi, to Shigeru Kawai. Electric guitar. 3,456,063, 7-15-69, Cl. 84-1.16
Teransi, Masayuki: *See—*
Fujimoto, Yasuo; and Teransi, Masayuki,3,437,661.
Terao, Junichi: *See—*
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi,3,476,777.
Terao, Shinichiro; Sagawa, Seizi; and Yabuta, Seizo, to Sumitomo Chemical Company, Ltd. Process for producing nitrodiarylamines. 3,435,074, 3-25-69, Cl. 260-576.
Terao, Shinichiro: *See—*
Ueda, Tomoharu; Terao, Shinichiro; and Yabuta, Seizo,3,464,478.
Terasaka, Junichi, to Fujitsu Limited. Office line connection system for private branch telephone exchange. 3,459,897, 8-5-69, Cl. 179-18.
Terasaki Denki Sangyo Kabushiki Kaisha: *See—*
Murai, Wasaburo; and Kobayashi, Yoshio, 3,464,038.
Terasawa, Tadao: *See—*
Nagata, Wataru; Terasawa, Tadao; and Sugasawa, Tsutomu,3,471,565.

Terase, Tsuneo: *See—*
Arakawa, Seiji; Tominaga, Sunao; and Terase, Tsuneo,3,437,489.

Terashima, Shiro: *See—*
Yamada, Shunichi; Achiwa, Kazuo; Terashima, Shiro; and Iwaki, Akio; said,3,422,135.

Terashima, Yahachi; and Yasuda, Yukio, to Fuji Shashin Film Kabushiki Kaisha. Process for the production of black colloidal-silver dispersion. 3,459,563, 8-5-69, Cl. 106-1.

Terashima, Yahachi; Yasuda, Yukio; and Sakai, Tadao, to Fuji Shashin Film Kabushiki Kaisha. Silver halide photographic emulsion. 3,481,742, 12-2-69, Cl. 96-104.

Terayama, Toshio, to Kabushiki Kaisha Daini Seikosha. Electric timepiece regulator. 3,441,753, 4-29-69, Cl. 310-8.2

ter Braak, Bernardus, to Gebr. ter Braak N.V. Apparatus for coating cores with a layer of sugar, chocolate or like material. 3,453,985, 7-8-69, Cl. 118-19.

Ter Bush, Charles F.: *See—*
Scott, Eugene W.; and Ter Bush, Charles F.,3,475,922.

Tereschenko, Tatiana Petrovna: *See—*
Kuznetsov, Viktor Sergeevich; Belyaev, Evgeny Ivanovich; Tereschenko, Tatiana Petrovna; Pechnikov, Nikolai Alexandrovich; Tashilin, Vyacheslav Fedorovich; Korityssky, Yakov Ilich; and Korney, Igor Vladimirovich,3,438,191.

Ter Haar, Leonard W.: *See—*
Reinmuth, Ernst F.; and Ter Haar, Leonard W.,3,446,609.

Terho, Mikko. Device for loading a transport box on a lorry and unloading the same. 3,471,048, 10-7-69, Cl. 214-505.

Ter Horst, Roelof Jan Willem, to Netherlands Tool Manufacturing Co. Drill, particularly for rotary percussion drilling. 3,469,643, 9-30-69, Cl. 175-394.

Terhune, Ralph D.: *See—*
Hoskins, Edward H.; and Terhune, Ralph D.,3,481,479.

Terilli, Emil B. Aerial fishing system. 3,462,870, 8-26-69, Cl. 43-4.

Terkel, Mike; Rose, Sheldon M.; and Smylie, Fred R., to Ultronix, Inc., mesne. Isulated pipeline jacketing systems. 3,486,534, 12-30-69, Cl. 138-158.

Terlecky, Boris S., to ACF Industries Incorporated. Trainline arrangement for long length railway cars. 3,446,364, 5-27-69, Cl. 213-1.

Terleckyj, Jaroslav: *See—*
Tortorici, John Joseph; Terleckyj, Jaroslav; and Markkanen, Carl Olavi,3,485,150.

Terleco, Inc.: *See—*
Ferguson, Richard, 3,467,153.

Terlinden & Co.: *See—*
Bachmann, Heinrich, 3,422,950.

Terlinden & Company: *See—*
Ruckstuhl, Jakob E., 3,475,926.

Ternes, Wayne R. Combination utility device for hunters. 3,442,275, 5-6-69, Cl. 135-5.

Terracciano, Benny J.: *See—*
Miller, George P.; and Terracciano, Benny J.,3,464,283.

Terrametrics: *See—*
Ublacker, Horst, 3,483,745.

Terramorsi, Guy, to Trefimetaux. Method and device for automatic leakage detection in liquid-pressure insulated power cables. 3,466,642, 9-9-69, Cl. 340-242.

Terrana, Jack D.: *See—*
Miller, Leo A.; and Terrana, Jack D.,3,477,815.
Miller, Leo A.; and Terrana, Jack D.,3,485,581.

Terra Nova , Incorporated: *See—*
Eerkens, Jozef W., 3,430,046.

Terra, Pierre Jean; and Pellet, Andre, to Societe Rhodiaceta. Treatment of vinyl alcohol polymer yarns. 3,445,562, 5-20-69, Cl. 264-290.

Terrazzo Supply Corporation: *See—*
Lombardo, John M.; Friesen, Clarence W.; and Lombardo, Louis M., 3,452,486.

Terrell, James W.: *See—*
Roberts, William A.; and Terrell, James W.,3,485,972.

Terrell, Ross C., to Air Reduction Company, Incorporated. 1,1,2-Trifluoro-2-bromoethyl difluoromethyl ether as an inhalant anesthetic agent. 3,449,504, 6-10-69, Cl. 424-342.

Terrell, Ross C., to Air Reduction Company, Incorporated. 1,1 Difluoro-2,2-dichloroethyl difluoromethyl ether or an anesthetic agent. 3,461,213, 8-12-69, Cl. 424-342.

Terrell, Ross C., to Air Reduction Company, Incorporated. 1,1,2-Trifluoro-2-chloroethyl-difluoromethyl ether as an anesthetic agent. 3,469,011, 9-23-69, Cl. 424-342.

Terrell, Ross C., to Air Reduction Company, Incorporated. Fluorinated dialkyl sulfides. 3,476,811, 11-4-69, Cl. 260-609.

Terrell, Ross C., to Air Reduction Company, Incorporated. Fluorine containing halogenated dialkyl sulfides. 3,476,812, 11-4-69, Cl. 260-609.

Terrell, William T., to Carborundum Company, The. Igniter-thermistor assembly. 3,467,812, 9-16-69, Cl. 219-264.

Terrenzio, Gabriel J.; and Westbrook, Margaret. Hair-treating method and apparatus. 3,477,446, 11-11-69, Cl. 132-7.

Terrill, James R., to Aluminum Company of America. Glass bead bonding to aluminous metal. 3,477,118, 11-11-69, Cl. 29-471.1

Terrill, James R.: *See—*
Stroup, Philip T.; and Terrill, James R.,3,431,629.

Terry, Claude E., to Southern Mills, Inc. Cover for pressing platen. 3,444,634, 5-20-69, Cl. 38-66.

Terry, Clifford T.: *See—*
Bowden, John H.; and Terry, Clifford T.,3,433,863.

Terry, Cyrl W., to United States of America, Navy. Ground surface hardness tester. 3,477,283, 11-11-69, Cl. 73-84.

Terry, Daniel H.: *See—*
Weinstein, Bernard; Terry, Daniel H.; and Jensen, Harold S.,3,429,821.

Terry, David W., to International Business Machines Corporation. Efficient justification quality control. 3,483,527, 12-9-69, Cl. 340-172.5

Terry, Jack H., to Xerox Corporation. Pressure sensitive receiving and transfer sheet. 3,446,646, 5-27-69, Cl. 117-35.6

Terry, Jack H.; and Mueller, Ernest R., to Xerox Corporation, mesne. Duplicating ink. 3,436,234, 4-1-69, Cl. 106-20.

Terry, James Bernard: *See—*
Stamford, Stanley; Terry, James Bernard; Gratton, Charles Peter; and May, William Charles,3,441,477.

Terry, Peter L.; and Klunder, Kurt W., to Monsanto Research Corporation. Fuel cell and electrolyser system and method of operating same. 3,444,001, 5-13-69, Cl. 136-86.

Terry, Richard N.: *See—*
Saltzberg, Theodore; and Terry, Richard N.,3,445,815.

Terry, Sydney L.; and Batchelor, Robert B., to Chrysler Corporation. Inflatable cushioning device. 3,430,979, 3-4-69, Cl. 280-150.

Terry, Vincent G., Jr., to General Electric Company. Top-hung riveted rotor end winding block. 3,427,488, 2-11-69, Cl. 310-261.

Terry, William M.: *See—*
Gidley, John L.; Terry, William M.; and Brooks, Fred A., Jr.,3,481,403.

Terschanski, Adolf; and Lunau, Wigand, to Rheinische Kalksteinwerke G.m.b.H. Method for sorting bulk goods. 3,429,437, 2-25-69, Cl. 209-111.5

Terumichi, Jiro: *See—*
Shigeta, Yukio; Okamoto, Kozo; and Terumichi, Jiro,3,426,125.

Tervo, Reino O., to Norton Company. Granular electrically insulating material of magnesia and fused zircon. 3,457,092, 7-22-69, Cl. 106-57.

Terwilliger, Herbert W.: *See—*
Lahr, Roy J.; Mix, Arthur L., Jr.; and Terwilliger, Herbert W.,3,485,245.

Terwilliger, Paul L., to Gulf Research & Development Company. High-temperature water injection. 3,465,826, 9-9-69, Cl. 166-303.

Terwilliger, Paul L.; and Smith, Francis M., to Gulf Research & Development Company. Apparatus for well treatment and measurement. 3,443,429, 5-13-69, Cl. 73-152.

TerWoerds, Francis John; and Myers, Gerald Lee, to Dana Corporation. Breather for a gear housing. 3,422,982, 1-21-69, Cl. 220-44.

Terzian, Berj A., and Lucas, William D.: *See—*
Woodard, Robert, 3,430,374.

Terzic, Brant: *See—*
Steinkamp, Keith J.; and Terzic, Brant,3,475,061.

Tesch, Gunter Horst. Method of manufacturing flexible sheet material. 3,448,502, 6-10-69, Cl. 28-72.2

Tesch, Robert D., to Caterpillar Tractor Company. Collapsible weight handling boom. 3,426,915, 2-11-69, Cl. 212-8.

Tescom Corporation: *See—*
Fleischhacker, Joseph F.; and Kawamoto, Frank T., 3,476,320.

Tesei, Carlo Alberto: *See—*
Nobile, Luciano; and Tesei, Carlo Alberto,3,425,972.
Nobile, Luciano; Condorelli, Emanuele; and Tesei, Carlo,3,472,804.

Teshi, Haruo; and Kono, Seki, to Elmo Company Limited. Small-sized motion-picture projector. 3,439,980, 4-22-69, Cl. 352-79.

Teshima, Minoru, to Fukumitsu, Minoru, and Morita, James M. Apparatus for the automatic flushing of toilets. 3,482,268, 12-9-69, Cl. 4-100.

Tesima, Wataru: *See—*
Mizutani, Yukio; Tesima, Wataru; Akiyama, Sumio; Yamane, Reiichi; and Ihara, Hirohumi,3,451,951.

Teske, Ernest H.; and Roscoe, Howard E., to FMC Corporation. Core shaft and drive for a web handling apparatus. 3,458,147, 7-29-69, Cl. 242-55.

Teske, Fritz; and Teske, Lothar. Slide-ring seal. 3,432,174, 3-11-69, Cl. 277-80.

Teske, Karl W. E.: *See—*
Dombruch, Franz; Gutermann, Traugott; and Teske, Karl W. E.,3,484,044.

Teske, Lothar: *See—*
Teske, Fritz; and Teske, Lothar,3,432,174.

Teske, Roger J.: *See—*
Johnson, Robert A.; and Teske, Roger J.,3,440,574.

Tesla, narodni podnik: *See—*
Beranek, Milan, 3,487,201.
Jagos, Frantisek, 3,451,632.

Koukal, Vlastimil; and Krakora, Otokar, 3,474,197.
Mack, Zdenek, 3,436,684.
Mack, Zdenek, 3,436,685.
Vackar, Jiri, 3,436,686.

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Modification of proteinaceous polymers with carboxylic-carbonic anhydrides. 3,433,576, 3-18-69, Cl. 8-127.5

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Glass coated with organosilicon compounds. 3,468,751, 9-23-69, Cl. 161-193.

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Fluorinated alcohols-glycidol addition products. 3,470,258, 9-30-69, Cl. 260-615.

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Cellulose modification process and hexahaloacetone-urea adduct catalysts. 3,472,839, 10-14-69, Cl. 260-226.

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Modification of cellulose, polyvinyl alcohol and starch with compounds characterized by ethylene radicals having an electron attracting group which stabilizes carbanions on one carbon atom thereof and an alkoxy or hydroxy group on the other. 3,477,802, 11-11-69, Cl. 8-115.5

Tesoro, Giuliana C.; and Mattei, Frank V., to Stevens, J. P., & Co., Inc. Modification of reactive hydrogen-containing polymers with 2:1 adducts of divinyl sulfone and polyfunctional reactive hydrogen-containing monomers. 3,441,954, 4-29-69, Cl. 8-116.2

Tesoro, Giuliana C.; and Ring, Richard N., to Stevens, J. P., & Co., Inc. Fluorinated compounds. 3,420,840, 1-7-69, Cl. 260-296.

Tesoro, Giuliana C.: *See*—
Moore, Donald R.; and Tesoro, Giuliana C.,3,441,606.
Oroslan, Andrew; Sello, Stephen B.; and Tesoro, Giuliana C.,3,485,815.

Tess, Gerald Francis, to Sperry Rand Corporation. Electrically operated valve. 3,450,160, 6-17-69, Cl. 137-625.64

Tessier, Jack H.: *See*—
Sparks, David W.; and Tessier, Jack H.,3,483,081.

Tessier, Jean: *See*—
Joly, Robert; Warnant, Julien; Jolly, Jean; Prost-Marechal, Jacques; Bucourt, Robert; and Tessier, Jean,3,424,745.
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.

Tessier, Joseph D. L.: *See*—
Chopra, Sohinder Nath; Cormier, Claude J.; and Tessier, Joseph D. L.,3,424,834.

Tessier, Joseph Donatien Leo, to Chemcell Limited-Chemcell Limitee. Polyacetal leather-like sheet material and process of making same. 3,455,773, 7-15-69, Cl. 161-165.

Tessman, Clarence R. Chaff and straw handling attachment. 3,450,286, 6-17-69, Cl. 214-522.

Testa, Emilio: *See*—
Murthy, Yelahanka Krishnamurthy Srinivas; and Testa, Emilio,3,423,508.
Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio,3,459,740.
Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio,3,461,119.

Testa, Emilio; Bellasio, Elvio; and Maffii, Giulio, to Lepetit S.p.A.1,5-Diazabicyclo-[3.3.0]-octanes. 3,449,359, 6-10-69, Cl. 260-310.

Testa, Emilio; and Fontanella, Luigi, to Lepetit S.p.A. 2-Azetidinones. 3,452,000, 6-24-69, Cl. 260-239.
Pifferi, Giorgio; and Testa, Emilio,3,476,752.

Test Equipment Corporation: *See*—
Erath, Louis W., 3,445,769.

Testerini, Francesco, to Fabbrica Italiana Magneti Marelli S.p.A. Center electrode of a spark plug fixed in place by plastic metal by plastic metal. 3,449,613, 6-10-69, Cl. 313-136.

Testing Associates, Inc.: *See*—
Banks, William L., Jr., 3,446,362.

Testing Systems, Inc.: *See*—
Diperstein, David, 3,456,110.

Testo, Henry Raymond. Method and apparatus for providing an external connection to an electrical component. 3,478,307, 11-11-69, Cl. 339-244.

Testolin, Alfeo A. Auto body shredder. 3,426,674, 2-11-69, Cl. 100-95.

Testone, Anthony Q., to Testone Electronics Company. Printing press excess powder collector. 3,434,416, 3-25-69, Cl. 101-416.

Testone, Anthony Q., to Simco Company, Inc., The. Electrostatic copyholder and method for making same. 3,448,356, 6-3-69, Cl. 317-262.

Testone Electronics Company: *See*—
Testone, Anthony Q., 3,434,416.

Testor Corporation of Canada, Ltd., The: *See*—
Mossop, James B., 3,454,228.

Test, Robert L.; Baker, Hayward R.; and Nebelung, Raymond G., to United States of America, Navy. Waste chemical disposal apparatus and process. 3,457,881, 7-29-69, Cl. 110-7.

Teszner, Stanislas, to Societe de Constructions Electromecaniques Jeumont-Schneider. Control circuits for field-effect bipolar switching devices. 3,439,192, 4-15-69, Cl. 307-304.

Teszner, Stanislas, 1/2 to Societe de Constructions Electromecaniques Jeumont-Schneider. Bistable semiconductor device for heavy currents. 3,465,216, 9-2-69, Cl. 317-275.

Teszner, Stanislas; Durand, Paul; Morel, Philippe H.; and Briere, Pierre E. Bistable semiconductor integrated device. 3,482,151, 12-2-69, Cl. 317-235.

Tetart, Emile E., to Commissariat a l'Energie Atomique. Apparatus for corrugating sets of fins on sectors of tubular elements. 3,439,521, 4-22-69, Cl. 72-399.

Tetens, Harold G., to Interlake Steel Corporation. Coil unreeler. 3,446,452, 5-27-69, Cl. 242-75.43

Teterin, Alexandr Ivanovich: *See*—
Balashkand, Mikhail Ivanovich; Evdokimov, Georgy Stepanovich; Kaplan, Berta Lvovna; Lovlya, Sergei Alexandrovich; Maiorov, Viktor Vasilievich; Solodilov, Leonid Nikolaevich; Teterin, Alexandr Ivanovich; and Chen, Oleg Lanfanovich,3,447,625.

Teter, Ray E.: *See*—
Gilewski, Joseph F.; and Teter, Ray E.,3,437,190.

Teter, Robert M., Jr.; Addleburg, John W.; Rouse, Benjamin P., Jr.; and Snead, Charles D. Form wrapped with cellulose acetate strip material and method of wrapping said material. 3,442,744, 5-6-69, Cl. 161-269.

Tethal, Miroslaw R. Method of making a bearing structure. 3,455,004, 7-15-69, Cl. 29-149.5

Tetherow, Claude L., to Notifier Company, mesne. Polarized D.C. signaling system and means for supervising same. 3,448,447, 6-3-69, Cl. 340-409.

Teti, John: *See*—
Jenny, Jacques; Teti, John; and Anderson, Jack P.,3,476,190.

Tetra Pak A.G.: *See*—
Gustafson, Ake, 3,482,491.

Tetra Pak Rausing & Co., KG.: *See*—
Rausing, Anders Ruben, 3,436,007.

Tetrault, Leonard P., to Aerodyne Controls Corporation. Pool alarm. 3,468,283, 9-23-69, Cl. 116-67.

Tetrick, Harlan M.; and Reed, Charles E., to Freez-Porter Systems, Inc., mesne. Process and apparatus for handling perishable materials. 3,468,369, 9-23-69, Cl. 165-2.

Tetrick, John D., to Doughboy Industries, Inc. Wrapper closing apparatus. 3,481,106, 12-2-69, Cl. 53-135.

Tetsuo, Tokita; Morio, Minoru; and Tobari, Masakatsu, to Sony Corporation. Electron beam correction apparatus for color picture tube. 3,462,638, 8-19-69, Cl. 315-13.

Tetzlaff, Clarence C.; and Chamberlain, George, to Wittek Manufacturing Co. Wire hose clamps. 3,454,996, 7-15-69, Cl. 24-283.

Tetzlaff, Clarence C.; and Chamberlain, George, to Wittek Manufacturing Co. Hose clamp with hose attaching means. 3,477,106, 11-11-69, Cl. 24-279.

Teuber, Anthony J., to Data Devices, Inc., mesne. Magnetic tape cleaner. 3,475,782, 11-4-69, Cl. 15-308.

Teucher, Siegfried; and Kling, Hans, to Goetzewerke Friedrich Goetze A.G. Flat gasket. 3,433,490, 3-18-69, Cl. 277-164.

Teufel, Anton, to Industriewerk Schaeffler OHG. Bearing for a structural element rotating about a shaft and engageable therewith. 3,429,626, 2-25-69, Cl. 308-217.

Teufel, Anton, to Industriewerk Schaeffler OHG. Radial cage for cylindrical rollers. 3,438,685, 4-15-69, Cl. 308-217.

Teufel, Wilhelm J.: *See*—
Prahl, Jan, 3,480,972.

Teumac, Fred N.: *See*—
Harriman, Lester W.; Muehlberg, Paul E.; and Teumac, Fred N.,3,438,811.

Teumac, Fred N., to Dow Chemical Company, The. Removal of copper containing scale from ferrous surfaces. 3,447,965, 6-3-69, Cl. 134-2.

Teumac, Fred N., to Dow Chemical Company, The. Cationic polymers. 3,451,801, 6-24-69, Cl. 71-66.

Teumac, Fred Norman, to Dow Chemical Company, The. Inhibiting iron sulfide from attack by an aqueous acid solution. 3,475,346, 10-28-69, Cl. 252-401.
Watson, John D., Sr.; Mod, William A.; and Teumac, Fred N.,3,475,163.

Teumer, Karl-Heinz: *See*—
Knox, Jack R.; and Teumer, Karl-Heinz,3,421,930.
Knox, Jack R.; and Teumer, Karl-Heinz,3,475,307.

Teumin, Mota: *See*—
Gallay, Harry M.; Mainland, Albert F.; Teumin, Mota; and Yarina, William,3,464,274.

te Velde, Ties Siebolt, to U.S. Philips Corporation, mesne. Electrical monograin layers having a radiation permeable electrode. 3,480,818, 11-25-69, Cl. 313-94.

teVelde, Ties Siebolt; and Koelmans, Hein, to U.S. Philips Corporation, mesne. Method of manufacturing a semiconductor device. 3,481,030, 12-2-69, Cl. 29-571.

Teverama S. A.: *See*—
Michelson, Charles, 3,420,606.

Teverama S.A.: *See*—
Michelson, Charles, 3,433,562.

Teverbaugh, Robert K.: *See*—
Joseph, Guy G.; and Teverbaugh, Robert K.,3,459,611.

Joseph, Guy G.; Teverbaugh, Robert K.; and Maniquis, Angelina A.,3,476,292.
Teves-Thompson & Co., G.m.b.H.: *See—*
Kubera, Gerhard, 3,461,001.
Teves, Alfred, G.m.b.H.: *See—*
Bachmann, Willi, 3,482,664.
Belart, Juan, 3,465,852.
Beller, Hans Albert, 3,456,766.
Bender, Alfred; and Knapp, Wilhelm, 3,478,847.
Beuchle, Friedrich; Hahm, Heinz; Klein, Christof Hans; and Beller, Hans, 3,477,551.
Beuchle, Friedrich, 3,478,844.
Botterill, John Redvers, 3,460,652.
Budecker, Ludwig, 3,461,809.
Erdmann, Hans, 3,442,293.
Fritz, Karl, 3,473,330.
Fuchs, Walter, 3,454,183.
Hahm, Heinz Gunther, 3,442,356.
Hahm, Heinz Gunther, 3,478,849.
Hertell, Siegfried, 3,474,830.
Kilb, Philipp, 3,470,695.
Klein, Hans Christof, 3,475,059.
Klein, Hans Christof, 3,476,222.
Knapp, Wilhelm, 3,423,134.
Knapp, Wilhelm, 3,451,511.
Knapp, Wilhelm, 3,476,217.
Knapp, Wilhelm; and Schlor, Karl, 3,482,659.
Krause, Gerhard, 3,472,096.
Meier, Ernst, 3,424,282.
Meier, Ernst, 3,456,765.
Meier, Ernst, 3,482,661.
Meier, Ernst, 3,482,665.
Oberthur, Heinrich, 3,456,443.
Schanz, Hans, 3,476,221.
Schlor, Karl; and Korner, Konrad, 3,485,537.
Schmid, Leopold Franz, 3,435,922.
Schmid, Leopold Franz, 3,473,631.
Schrader, Gert, 3,478,650.
Steffen, Hermann; Jones, Rodney; and Nellen, Horst, 3,467,225.
Strien, Hans, 3,467,440.
Zeitrager, Gunther, 3,482,657.
Teves, Alfred, KG.: *See—*
Beuchle, Friedrich, 3,435,924.
Ruff, Wolfram; and Boucher, Heinz, 3,442,776.
Teves, Alfred, Maschinen- und Armaturenfabrik KG: *See—*
Belart, Juan, 3,442,354.
Belart, Juan, 3,467,226.
Belart, Juan, 3,467,227.
Botterill, John Redvers, 3,420,342.
Botterill, John R.; Klein, Hans-Christof; and Oberthur, Heinrich, 3,449,017.
Frigger, Heinz, 3,424,279.
Frigger, Heinz, 3,425,519.
Frigger, Heinz, 3,425,520.
Frigger, Heinz, 3,429,405.
Frigger, Heinz, 3,439,780.
Meier, Ernst, 3,438,466.
Oberthur, Heinrich, 3,459,000.
Ostwald, Fritz; Schmid, Leopold Franz; and Heusinkveld, Walter, 3,424,278.
Ostwald, Fritz, 3,439,781.
Pech, Franz; and Spahn, Peter, 3,470,697.
Schanz, Hans, 3,476,398.
Schmid, Leopold Franz, 3,439,786.
Teves, Ate A., Maschinen- und Armaturenfabrik KG: *See—*
Hertell, Siegfried, 3,439,500.
Tevis, Petr Isaakovich; Kostochkin, Vladimir Nikolaevich; Ananev, Vladimir Alexandrovich; Krjukov, Viktor Mikhailovich; and Mitin, Dmitry Mikhailovich. Recirculating heating device. 3,467,179, 9-16-69, Cl. 165-122.
Tewey, Robert: *See—*
D'Ercole, Augustine; Krias, Aristides; and Tewey, Robert,3,467,528.
Texaco Development Corporation: *See—*
Goldsby, Arthur E., 3,462,512.
Harnsberger, Bobby G., 3,428,121.
Nixon, John I., 3,458,431.
Shepherd, William T., 3,458,443.
Texaco Experiment Incorporated: *See—*
Canup, Robert E.; and Clinard, Ralph H., Jr., 3,483,371.
Wawner, Franklin E., Jr., 3,446,682.
Texaco Inc.: *See—*
Allen, Joseph C., 3,476,182.
Arkell, Alfred; Reinhard, Russell R.; Heisler, Robert Y.; and Larson, Lewis P., 3,454,369.
Bialy, Jerzy J.; and Dille, Kenneth L., 3,449,096.
Blackley, William D.; Siegart, William R.; and Chafetz, Harry, 3,429,937.
Blackley, William D., 3,462,494.
Braden, William B., Jr., 3,444,931.
Braden, William B.; and Carlin, Joseph T., 3,469,406.
Brandenburg, John T.; Crone, John M., Jr.; and Suggitt, Robert M., 3,476,821.
Bunn, Dorrance P., Jr.; Jones, Henry B.; and Nagle, Richard E., 3,433,733.
Bunn, Dorrance P., Jr.; and Janes, Edward F., 3,445,542.
Bunn, Dorrance P., Jr.; Janes, Edward F.; and Williams, Dale, 3,476,818.
Chafetz, Harry; and Mead, Theodore C., 3,468,944.
Chien, Sze-Foo, 3,468,158.
Child, Edward T.; and Pezdirtz, George F., 3,459,827.
Cole, Edward L.; Knowles, Edwin C.; and Sensel, Eugene E., 3,468,815.
Coleman, Richard L., 3,476,680.
Cooper, David E., 3,461,065.
Cross, Edward A., 3,475,336.
Crouch, Roy L.; and Cook, Paul A., 3,428,562.
Dadura, James G.; Knowles, Edwin C.; and McCoy, Frederic C., 3,422,017.
Dadura, James G., 3,474,035.
Davies, James A.; and Sherman, Philip B., 3,476,681.
Devins, James T.; and Quisenberry, Robert E., 3,433,848.
Doyle, William P.; Patterson, John A.; and Peropoulos, Peter C., 3,470,252.
Eckert, George W., 3,454,381.
Eckert, George W., 3,473,902.
Eckert, George W., 3,476,533.
Estes, John H.; and Crone, John M., Jr., 3,440,300.
Flournoy, Norman E., Sr.; and Barnes, Vernon M., Jr., 3,428,062.
Frascati, Frank P., 3,433,254.
Goetchius, Ronald J.; and Nolting, Jerry L., 3,482,441.
Goldsby, Arthur R., 3,422,164.
Goldsby, Arthur R., 3,428,705.
Goldsby, Arthur R., 3,448,168.
Green, William B., Jr.; Witte, Arnold C., Jr.; Pitman, Herbert J.; and Dowden, Clarence L., Jr., 3,475,337.
Greene, John H.; Hencke, William R.; Dowden, Clarence L., Jr.; and Pitman, Herbert J., 3,475,335.
Hall, Hugh E., Jr., 3,452,201.
Harlan, Don L., 3,472,518.
Harnsberger, Bobby G., 3,428,121.
Harnsberger, Bobby G.; and Payton, Joy T., 3,429,373.
Haynes, Stewart, Jr.; and Fontaine, Marc F., 3,476,183.
Heisler, Robert Y.; Dille, Kenneth L.; Fontaine, Marc F.; and Eckert, George W., 3,421,867.
Hellmuth, Walter W., 3,424,684.
Hellmuth, Walter W.; Kivelevich, Doris; Dadura, James G.; and Morissette, Bertrand G., 3,480,548.
Hess, Howard V.; and McCoy, Frederic C., 3,433,583.
Hess, Howard V.; and Guptill, Frank E., Jr., 3,485,882.
Holst, Edward H.; and Kirkwood, George B., 3,472,773.
Howlett, Donald L., 3,470,457.
Howlett, Harry E., 3,424,919.
Hubby, Laurence M., 3,440,512.
Johnson, Charles D., 3,429,401.
Kerr, Edwin R.; Ware, Charles H., Jr.; and Stepanek, William D., 3,429,941.
Kivelevich, Doris, 3,425,941.
Kivelevich, Doris; and Ruidisch, Louis E., 3,429,812.
Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L., 3,458,582.
Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L., 3,466,326.
Lafferty, William L., Jr.; Child, Edward T.; Estes, John H.; and Vachuda, George W., 3,440,301.
Lyons, Joseph F.; Wisner, Jackson W., Jr.; and Thomas, Paul R., 3,429,820.
Mc Coy, Frederic C.; and Hess, Howard V., 3,459,683.
McCoy, Frederic C.; and Hess, Howard V., 3,422,009.
McCoy, Frederic C.; Knowles, Edwin C.; and Hess, Howard V., 3,441,369.
McCoy, Frederic C.; and Knowles, Edwin C., 3,472,600.
McCoy, Frederic C.; and Knowles, Edwin C., 3,480,551.
McDaniel, Alan R., 3,426,844.
McGann, Rodney, 3,477,505.
McLoy, Frederic C.; and Knowles, Edwin C., 3,439,011.
Mead, Theodore C., 3,468,956.
Menapace, Lawrence W., 3,485,875.
Messing, Donald A.; Child, Edward T.; and Peck, Reese A., 3,424,670.
Millendorf, Alfred J.; and Oberender, Frederick G., 3,428,662.
Morris, Herbert C.; and Sequeira, Avilino, Jr., 3,438,887.
Morris, Herbert C.; and Nixon, John I., 3,451,925.
Morris, Herbert C.; and Nixon, John I., 3,461,066.
Morris, Herbert C.; and Nixon, John I., 3,470,089.
Morris, Herbert C.; and Nixon, John I., 3,472,757.
Muenger, James R., 3,444,697.
Muenger, James R., 3,461,677.
Nolting, Jerry L., 3,454,871.

Oberender, Frederick G.; Godfrey, Arthur W.; and Wiley, Morris A., 3,476,685.
Patterson, John A.; Menapace, Lawrence W.; and Doyle, William P., 3,470,250.
Paull, Peter L.; Klein, John A.; and Dille, Roger M., 3,473,903.
Pitman, Herbert J.; and Dowden, Clarence L., Jr., 3,474,034.
Pogonowski, Ivo C., 3,457,728.
Pogonowski, Ivo C., 3,474,630.
Pratt, Roy E.; and Hahn, Frederick K., 3,436,338.
Price, Tom B., 3,451,475.
Quisenberry, Robert E., 3,472,912.
Reed, Claude R.; Elderidge, John W., Jr.; and Lanari, Raymond, 3,469,083.
Richter, Albert P., Jr.; and Bruner, James D., 3,451,263.
Richter, Albert P., Jr.; and Cox, Percy T., 3,455,158.
Richter, Albert P., Jr.; and Bruner, James D., 3,465,582.
Richter, Albert P., Jr.; and Bruner, James D., 3,466,597.
Richter, Albert P., Jr.; and Bruner, James D., 3,486,107.
Roden, Harry, 3,475,531.
Senn, Charles A., III; and Parker, Levi C., 3,458,592.
Senn, Charles A., III; and Parker, Levi C., 3,458,593.
Sensel, Eugene Edward, 3,483,137.
Shepherd, William T.; Platte, Howard J.; and Gonzalez, Federico P., 3,458,444.
Shepherd, William T., 3,459,660.
Siegart, William R.; Peropoulos, Peter C.; Jones, Ronald E.; and Smolin, William, 3,470,251.
Siegart, William R.; Blackley, William D.; Chafetz, Harry; and McMahon, Matthew A., Jr., 3,480,667.
Smetana, Richard D., 3,445,529.
Smitherman, Thomas L., 3,470,530.
Tate, Jack F., 3,429,824.
Ten Brink, Karl C.; and Woodward, Charles D., 3,435,672.
Tuggle, Ray; and Graves, Richard H., 3,454,464.
Woodle, Robert A.; and Barron, Joseph M., 3,458,432.
Woodward, Charles D., 3,472,318.
Texas-U.S. Chemical Company: *See*—
Barton, Bernard Charles; Nudenberg, Walter; and Delaney, Edward Axel, 3,466,268.
Bayerl, Joseph James; deDecker, Hendrik Kamiel; and Lee, Ying Kao, 3,433,759.
Nudenberg, Walter; Merrifield, Dudley Bruce; and Delaney, Edward Axel, 3,424,736.
Texas Eastern Transmission Corporation: *See*—
Smith, Ernest L., 3,438,216.
Texas Gas Transmission Corporation: *See*—
Eaton, James B., Jr., 3,485,441.
Texas Gulf Sulphur Company: *See*—
Gloster, Arthur, 3,455,647.
Kutz, Kenneth J., 3,442,553.
Texas Industries, Inc.: *See*—
van der Lely, Cornelis, 3,447,295.
van der Lely, Cornelis, 3,448,568.
van der Lely, Cornelis, 3,448,879.
van der Lely, Cornelis, 3,461,655.
van der Lely, Cornelis, 3,478,499.
Texas Instruments, Incorporated: *See*—
Abraham, Richard P.; and Sevin, Leonce J., 3,460,106.
Alford, John H.; Armand, Harold A.; Bray, William E.; Hamilton, Edward E.; Jasper, Leslie L.; Moore, Samuel D.; Renker, Robert L.; and Ryon, Richard M., Jr., 3,423,677.
Ambler, Walter B.; and Mawney, Robert G., 3,431,526.
Anderson, Walter M., Jr., 3,426,969.
Audette, Richard T., 3,430,177.
Baker, Charles E.; and Penn, William D., 3,437,393.
Baker, Charles E.; Martel, Bob E.; and Slocum, George J., 3,471,641.
Bawa, Mohendra S.; Connally, Leslie O.; and Truitt, James K., 3,421,863.
Bawa, Mohendra S.; and Truitt, James K., 3,453,146.
Bawa, Mohendra S., 3,466,197.
Bean, Kenneth E.; and Gleim, Paul S., 3,421,055.
Belasco, Melvin; Howeth, Bobby W.; Martin, David D.; and Wende, Price T., 3,468,659.
Beyen, Werner J.; and Caulfield, Henry J., 3,433,139.
Biard, James Robert, 3,463,975.
Biard, James R.; and Merryman, Jerry D., 3,436,548.
Biard, James R., 3,445,793.
Biard, James R., 3,456,167.
Birchler, Robert O.; and Williams, E. R., Jr., 3,439,238.
Bliss, Bruce J., 3,476,528.
Bodge, Clifford A., 3,426,301.
Bodge, Clifford A., 3,435,293.
Bohannon, Ralph O., Jr.; and Stehlin, Robert A., 3,465,215.
Bohannon, Ralph O., Jr., 3,473,090.
Bonin, Edward L., 3,476,941.
Bracken, Ronald C.; Stroup, Ralph F.; and Wakefield, Gene F., 3,459,504.
Bradham, Allen C., III, 3,464,769.
Bradham, Allen C., III, 3,465,091.
Braun, John A., 3,439,138.
Bray, William E., 3,440,609.
Bray, William E., 3,441,914.
Brock, Fred A.; and Johnston, Roy C., 3,437,170.
Buiting, Francis P.; and Obenhaus, Robert E., 3,457,460.
Buiting, Francis P.; and Waseleski, Joseph W., Jr., 3,474,963.
Burg, Kenneth E., 3,437,987.
Button, Charles T., 3,471,730.
Bylander, Ernest G., 3,474,297.
Caulfield, Henry John, 3,427,456.
Caulfield, Henry John, 3,471,802.
Cayzer, John Anthony, 3,437,882.
Cecil, Olin B., 3,440,372.
Cecil, Olin B., 3,453,723.
Cecil, Olin B., 3,485,608.
Clarke, David E., 3,486,150.
Clarke, John F.; and Bliss, Bruce J., 3,453,849.
Clarke, John F.; and Coad, Brian C., 3,475,811.
Clarke, John F., 3,476,080.
Clarke, John F.; and Adams, Clyde M., Jr., 3,476,579.
Clarke, John F., 3,483,030.
Clarke, John F., 3,485,995.
Claytor, Richard N.; and Emery, Frank E., 3,436,666.
Clendinning, William R.; and Eden, Dayton D., 3,435,445.
Clingman, William H., Jr., 3,424,939.
Coad, Brian C., 3,429,734.
Coad, Brian C., 3,457,626.
Coad, Brian C., 3,470,939.
Cole, David F.; and Trachtenberg, Isaac, 3,436,271.
Comey, Kenneth R., Jr.; and Santala, Teuvo J., 3,472,654.
Comey, Kenneth R., Jr.; and Durst, George, 3,477,845.
Conrad, Raymond W.; Haisty, Robert W.; and Hoyt, Pete L., 3,421,952.
Conrad, Raymond W.; and Cox, Ronald H., 3,441,453.
Cook, Charles R., Jr., 3,484,932.
Copeland, Ben H., 3,435,520.
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S., 3,434,828.
Cragon, Harvey G.; and Smith, Samuel K., 3,422,435.
Crawford, Robert H., 3,430,203.
Crawford, Robert H., 3,436,621.
Curry, James W., 3,432,538.
Curry, James W., 3,484,468.
D'Entremont, John Raymond, 3,453,577.
Davis, Billy W., 3,436,776.
Davis, Billy W.; and Johnston, Roy C., 3,437,171.
Del Gaudio, Italo, 3,458,675.
DeVries, Dale Byron, 3,475,664.
Dion, Paul A.; and Thomson, Arthur James, 3,444,603.
Dion, Paul A.; and Carr, Martin W., 3,455,016.
Durst, George; and Schneider, Kenneth E., 3,454,445.
Eden, Dayton D., 3,437,399.
Eden, Dayton D., 3,449,583.
Edwards, Arvel Hollis, 3,424,926.
Epstein, Henry David, 3,431,527.
Epstein, Henry David, 3,435,401.
Ertel, Alfred, 3,432,778.
Ertel, Alfred, 3,475,700.
Finnegan, Francis, 3,427,436.
Finnegan, Francis; and Flanagan, Charles D., 3,432,643.
Finnegan, Francis, 3,441,048.
Fuchser, Troy D.; and Sadler, James C., 3,438,029.
Giles, Ben F.; and Viger, Howard L., 3,460,064.
Gleim, Paul S.; and Sherer, Jimmie B., 3,456,616.
Godfrey, Lawrence M., Jr.; and McBeth, James R., 3,458,859.
Goundry, Paul C., 3,453,352.
Goundry, Paul C.; and Boatman, James C., 3,470,039.
Granberry, Doyle S.; McCalip, Robert L.; and Lovelace, Byron K., 3,431,636.
Gray, Earl E., 3,484,301.
Gray, Lee, Jr., 3,424,082.
Haberecht, Rolf Reinhold, 3,431,350.
Haberecht, Rolf R.; Bracken, Ronald C.; and McCrary, James W., 3,436,306.
Haberecht, Rolf R., 3,436,468.
Haberecht, Rolf R., 3,458,368.
Haderer, Edward G., 3,422,385.
Hagarman, Paul O., 3,447,967.
Haisty, Robert W., 3,422,322.
Harper, James G., 3,440,114.
Harper, Walter Reeve, Jr., 3,470,514.
Hasty, Turner E., 3,436,680.
Helms, John D.; and Williams, Charles S., 3,436,651.
Helms, John D., 3,436,821.
Helms, John D.; and Brown, Herbert L., Jr., 3,462,577.
Helms, John D., 3,470,612.
Hilton, Albert R.; and Jones, Charlie E., Jr., 3,426,201.
Hirsbrunner, Hans G., 3,461,272.
Hoffman, William F.; and Hyltin, Tom M., 3,436,691.
Hogue, Vernon D., 3,472,964.

Hyltin, Tom J.; Hoffman, William F.; and Austin, James E., 3,454,906.
Hyltin, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D., 3,436,604.
Hyltin, Tom M., 3,454,945.
Jasper, Leslie L., 3,459,969.
Jost, Ernest M., 3,426,172.
Jost, Ernest M., 3,432,354.
Jost, Ernest M., 3,446,675.
Jost, Ernest M., 3,485,673.
Jost, Ernst M.; and Cadden, James Joseph, 3,481,023.
Kalb, Jeffrey C., 3,474,263.
Kauffman, John E., 3,484,533.
Kilby, Jack S., 3,434,015.
Kilby, Jack S., 3,435,516.
King, Joel D., 3,480,907.
Kirkpatrick, Artie D., 3,439,969.
Klby, Jack S.; Toombs, Harold D.; and Van Tassel, James H., 3,484,534.
Kreiselmaier, Kurt W., 3,458,361.
Kronlage, John W., 3,474,308.
Landron, Rafael, Jr., 3,436,605.
Landron, Rafael, Jr., 3,464,805.
Le Febre, David L.; and Kuehne, Walter, 3,470,377.
Lehnhardt, Stanley E.; and Steetle, David R., 3,473,153.
Logan, Russell H., 3,460,140.
Marcoux, Leo, 3,437,790.
Marcoux, Leo, 3,476,293.
Martin, David D., 3,435,306.
Martin, Robert C., 3,436,738.
Martin, Robert Clurin, 3,468,728.
McBride, Lyle E., Jr.; and Waseleski, Joseph W., 3,456,878.
McBride, Lyle E., Jr., 3,465,961.
McCarrick, Henry J., 3,460,078.
McMorrow, Joseph L.; and Shockroo, James E., 3,482,146.
Meyer, Lawrence L., 3,440,389.
Miller, Edwin A., 3,435,504.
Mize, Jack P.; and Colman, Derek, 3,476,991.
Neitzel, Edwin B., 3,437,990.
Neitzel, Edwin B., 3,438,057.
Niemann, George W., 3,473,045.
Ornstein, Jacob L., 3,454,373.
Ornstein, Jacob L.; and Mueller, Howard C., 3,479,732.
Oualline, Charles M., Jr.; and Wakefield, Gene F., 3,471,321.
Parker, Sidney G., 3,453,148.
Parker, Sidney G.; and Kraus, Herbert, 3,468,363.
Parmer, Will F., 3,436,281.
Patterson, Robert J.; and Tilton, Andre E., 3,440,068.
Patterson, Robert Joe, 3,451,794.
Perrin, William P.; and Gentle, Joe, 3,487,275.
Perry, Frederick G., 3,452,313.
Perry, Thomas R., 3,436,611.
Phillips, James L., 3,437,843.
Pritchard, John P., Jr., 3,477,848.
Proffitt, Jack M., 3,437,989.
Pruett, George R., 3,436,549.
Queen, William D., 3,453,783.
Ramsey, Thomas H., Jr.; Van Tassel, James H.; and Abraham, Richard P., 3,453,722.
Reed, Bruce S.; and Wingo, Dale T., 3,436,606.
Reid, Lee R.; and Berkshire, Robert H., 3,438,694.
Riley, James E.; and Williams, Billy B., 3,432,918.
Rogers, William O.; and Wang, Chan Huan, 3,482,419.
Ross, John W., 3,476,101.
Ruggiero, Edward M., 3,434,020.
Russell, Robert J., 3,434,200.
Russell, Robert J.; and Cable, Joseph Wesley, 3,444,346.
Russell, Robert J., 3,475,140.
Sanford, Carlton E.; and Braun, John A., 3,454,733.
Sanford, Carlton E., 3,482,067.
Santala, Teuvo J., 3,468,015.
Savolainen, Unto U., 3,466,726.
Schweiger, Manfred U., 3,443,395.
Sevin, Leonce J., 3,426,662.
Sevin, Leonce J., 3,434,068.
Sharif, Louay E.; and Hooper, Robert C., 3,466,719.
Shaw, Don W.; and Mehal, Edward W., 3,425,879.
Shockroo, James E.; Lopes, Manuel R.; and McMorrow, Joseph L., 3,470,513.
Shortes, Samuel Ray, 3,449,148.
Shortes, Samuel R., 3,439,217.
Shortes, Samuel R., 3,450,581.
Sihvonen, Yro T.; Boyd, David R.; and Kitts, Earle L., Jr., 3,426,209.
Slonneger, Bruce K., 3,445,799.
Small, Richard B., 3,456,339.
Smith, Robert E., 3,459,883.
Snyder, John L. III,, 3,424,516.
Squiers, David J., 3,426,178.
Stehlin, Robert A., 3,474,309.
Strieter, Frederick J., 3,442,011.
Sumner, George G., 3,448,349.
Sutton, Walter T., Jr.; Broyles, James D.; and Schweiger, Manfred U., 3,465,534.
Sutton, Walter T., Jr.; Broyles, James D.; Sims, James B.; and Botts, Nelson F., 3,475,830.
Thomson, Arthur J., 3,444,610.
Trachtenberg, Isaac, 3,471,338.
Trost, George P., 3,482,303.
Truitt, James K., 3,431,146.
Truitt, James K., 3,458,357.
Ty, Henry; and Dubuc, Rene A., 3,459,516.
Wakefield, Gene F., 3,459,842.
Wakely, Wilbur T., 3,483,308.
Walkow, Arnold M., 3,435,181.
Warner, Raymond M., Jr., 3,436,622.
Waseleski, Joseph W., Jr.; Buiting, Francis P.; and Kulwicki, Bernard M., 3,434,089.
Waseleski, Joseph W., Jr., 3,437,107.
Whitlow, Bailey Duane, 3,462,089.
Willoughby, Joseph A., 3,475,816.
Wilson, Oran W.; and Cronin, George R., 3,471,324.
Wisman, Emery C.; and Kronlage, John W., 3,446,659.

Texas Pipe Line Company, The: *See—*
Gentry, John W., Jr., 3,428,489.
Williams, Charles S., Jr., 3,453,868.

Texfoam International Limited: *See—*
Everett, Lilian F., 3,464,872.

Texidor, Teodoro A. Air supply system for automotive vehicle. 3,461,789, 8-19-69, Cl. 98-1.5

Texize Chemicals, Inc.: *See—*
Brooks, Ray G., 3,478,935.

Textile Machinery Developments Limited: *See—*
Wholton, Reginald F.; and Cartledge, Clive, 3,435,637.

Textile Rubber & Chemical Co., Inc.: *See—*
Callahan, Francis G., 3,453,351.

Textile Specialties, Inc.: *See—*
Sides, Everett E., 3,452,784.

Textol Systems, Inc.: *See—*
Zaruba, Wenzel, 3,473,393.

Textor, Richard A. Elevator for quick assemblage and use in limited access enclosures. 3,420,332, 1-7-69, Cl. 182-128.

Textron Electronics, Inc.: *See—*
Basil, Richard W.; and Benning, Frederic N., 3,449,561.
Booth, Galt B., 3,422,293.
Mann, Alfred E., 3,450,568.

Textron, Inc.: *See—*
Atwater, Franklin S., 3,437,307.
Beck, Andrew J., 3,443,410.
Beneteau, Joseph Oscar Charles, 3,471,905.
Bradlau, Albert A., 3,461,621.
Buckminster, Lloyd A.; and Washburn, William A., 3,451,177.
Byam, Erwin B.; and McMurray, John C., 3,440,860.
Byam, Erwin B.; and Pizzuto, Joseph, 3,470,727.
Clark, Charles C.; and Krawczyk, Arthur J., 3,448,075.
Cormier, Gerard A., 3,481,231.
Courtot, Louis B.; and Gibson, Willard C., 3,469,605.
Darr, Frank M.; and Gronski, Chester A., 3,462,205.
Dickinson, Thorn W., 3,443,847.
Erickson, Albin R., 3,483,766.
Fersing, Leif E., 3,435,814.
Findley, Howard J., 3,477,320.
Flachbarth, Charles T., 3,451,033.
Flachbarth, Charles T.; and Friedman, Ronald S., 3,458,182.
Flachbarth, Charles T., 3,463,194.
Flachbarth, Charles T., 3,485,933.
Gag, Joseph B., 3,428,883.
Hoddinott, William M., 3,424,028.
Hoddinott, William M., 3,467,177.
Hook, Robert D., 3,484,126.
Hunter, Thomas A.; Sherwood, Noble P.; Buske, Gilbert E.; and Guarino, Alexander J., 3,459,269.
Hurlbut, Gordon K.; and Gagne, Antoine F., 3,461,619.
Jahn, Fred L., 3,444,638.
Karnkowski, Tadeusz, 3,436,945.
Kelly, William J.; and Bickford, Dudley V., 3,427,865.
Lawrence, Charles T., 3,466,713.
Marsh, Donald R., 3,447,846.
Martin, Steven T., 3,428,375.
McMurray, John C., 3,425,073.
Peck, Robert L., 3,427,247.
Putetti, Anthony M., 3,477,075.
Rastelli, Telesfore, 3,461,704.
Readyhough, Peter A., 3,474,947.
Schroeder, Herbert M.; and Walker, Stanton E., 3,438,795.
Shultz, Walter, 3,448,642.
Shultz, Walter; and Jones, Robert S., 3,486,209.
Spragg, John D., 3,449,198.
St. Clair, Theodore A., 3,433,067.
Van Dorn, Horace B., 3,461,529.
Van Dorn, Horace B., 3,469,063.

Vannest, James L., 3,471,208.
Vannest, James L., 3,482,297.
Vannest, James L., 3,486,212.
Wasko, George, 3,456,328.

Teyssedre, Jules Maurice Pierre: *See—*
Mariette, Bernard Marie Andre; and Teyssedre, Jules Maurice Pierre,3,452,721.

Teyssie, Philippe: *See—*
Dawans, Francois; and Teyssie, Philippe,3,448,095.
Dawans, Fransois; and Teyssie, Philippe,3,451,987.
Gregor, Harry P.; Teyssie, Philippe; and Hoeschele, Guenther K.,3,434,979.
Osgan, Maseh; Silly, Jean-Pierre; and Teyssie, Philippe,3,432,445.

Teyssie, Pilippe: *See—*
Maguet-Martin, Francoise; Osgan, Maseh; and Teyssie, Pilippe,3,427,260.

Tezuka, Keizo; and Kobayash, Takuro. Arc welding electrode. 3,458,685, 7-29-69, Cl. 219-146.

Tezuka Kosan Kabushiki Kaisha: *See—*
Tezuka, Kunitoshi, 3,451,185.
Tezuka, Kunitoshi, 3,451,190.

Tezuka, Kunitoshi, to Tezuka Kosan Kabushiki Kaisha. Method of refuse disposal. 3,451,185, 6-24-69, Cl. 53-22.

Tezuka, Kunitoshi, to Tezuka Kosan Kabushiki Kaisha. Device for refuse disposal. 3,451,190, 6-24-69, Cl. 53-124.

Tezuka, Kunitoshi. Tong device for metal scrap blocks. 3,469,879, 9-30-69, Cl. 244-106.

Tezuka, Kunitoshi. Melting device for regenerating recovered scrap iron. 3,476,372, 11-4-69, Cl. 266-13.

Tezuka, Yoshitomo, to Aida Iron Works & Co., Ltd. Hydraulic overload release and control for a press machine. 3,426,873, 2-11-69, Cl. 192-150.

Tezuka, Yoshitomo; and Iwamatsu, Mayuki, to Aida Iron Works & Co., Ltd. Quick die changing system. 3,457,874, 7-29-69, Cl. 104-23.

T.F.H. Publications, Inc.: *See—*
Axelrod, Herbert R., 3,483,985.
Roberts, Mervin F., 3,481,586.

T. F. H. Publications, Inc.: *See—*
Axelrod, Herbert R., 3,459,221.

TFR Corporation: *See—*
Rowbottam, Frank W., 3,429,292.

Thacker, Louis H.: *See—*
Bate, Lamont C.; Dyer, Frank F.; and Thacker, Louis H.,3,431,414.

Thackeray, William E., 1/2 to Agricola, Norman F. Roller-type hair curler adapted for intercoupling. 3,433,233, 3-18-69, Cl. 46-40.

Thaddey, Kurt, to Ciba Limited. Method of and apparatus for automatically controlling exposure times in a photographic copying machine. 3,469,915, 9-30-69, Cl. 355-83.

Thafvelin, Karl Gunnar; Wahlberg, Yngve; and Bockstiegel, Georg Heinrich Artur Gerhard, to Hoganas-Billesholms Aktiebolag. Method of treating iron powder. 3,462,260, 8-19-69, Cl. 75-0.5

Thaler, George J.: *See—*
Black, Robert J.; Thaler, George J.; Prentky, Peter I.; and Cordano, Richard D.,3,426,337.

Thaler, Samuel, to Hughes Aircraft Company. Doppler shift correction analog computer. 3,441,934, 4-29-69, Cl. 343-8.

Thalin, Gunnar E.E. Crane booms, particularly mobile crane booms. 3,477,589, 11-11-69, Cl. 212-59.

Thalman, Armin: *See—*
Schneckenburger, Emil; and Thalman, Armin,3,483,915.

Thalmann, Armin, to Concast AG. Apparatus for altering the position of a jet of molten metal, especially for continuous casting machines. 3,436,023, 4-1-69, Cl. 239-537.

Tharp, James W.: *See—*
Hart, Jack P.; and Tharp, James W.,3,456,717.

Thatcher, Charles R.: *See—*
Probst, Richard O.; Thatcher, Charles R.; and Zupan, Norbert M.,3,439,649.

Thatcher, Charles R., to Ransburg Electro-Coating Corporation. Electrostatic powder-coating apparatus. 3,476,319, 11-4-69, Cl. 239-15.

Thatcher, Murray L., to International Harvester Company. Log handling apparatus. 3,424,326, 1-28-69, Cl. 214-505.

Thate, Kurt: *See—*
Winkler, Alfred; Winkler, Friedrich; Theer, Anton; and Thate, Kurt,3,477,778.

Thayer, Arlie J., to International Harvester Company. Fruit catcher. 3,462,931, 8-26-69, Cl. 56-329.

Thayer, Arlie J.: *See—*
Pool, Stuart D.; Svercika, Edward; and Thayer, Arlie J.,3,462,932.

Thayer, Arthur G.: *See—*
Grosskopf, John W., Jr.; Thayer, Arthur G.; and Welker, Robert H.,3,461,624.

Thayer, Louis C., to Friden, Inc. Electrostrictive actuator. 3,420,975, 1-7-69, Cl. 200-181.

Thayer, Louis C., to Friden, Inc. Electrostrictive print hammer actuator in high speed printers. 3,473,466, 10-21-69, Cl. 101-93.

Thayer, Louis C., to Singer Company, The. Electrostrictive actuator. 3,482,772, 12-9-69, Cl. 234-108.

Thayer, Paul M., to Water Pollution Control Corp. Apparatus for diffusing gas into a liquid. 3,424,443, 1-28-69, Cl. 261-123.

Thayer, Robert L.: *See—*
Gibson, Fred D., Jr.; Halker, Bruce B.; and Thayer, Robert L.,3,463,707.

Thayer, William J.; and Garnjost, Kenneth D., to Moog Inc. Servomechanism providing static load error washout. 3,464,318, 9-2-69, Cl. 91-359.

Thayer, William J.: *See—*
Williams, L Jack; Thayer, William J.; and Garnjost, Kenneth D.,3,455,330.

Thebis, Eberhard: *See—*
Brede, Ernst; Schulze, Reinhard; and Thebis, Eberhard,3,486,379.

Thee, Alfred: *See—*
Hecker, Arthur C.; and Thee, Alfred,3,479,309.

Theer, Anton: *See—*
Winkler, Alfred; Winkler, Friedrich; Theer, Anton; and Thate, Kurt,3,477,778.

Theermann, Hans; Kotyza, Heinrich; and Schiedeck, Werner, to Salzgitter Maschinen Aktiengesellschaft. Machine for smoothing mine floors or the like. 3,472,555, 10-14-69, Cl. 299-41.

Thees, Richard, to North American Philips Company, Inc. Rotor without sticking moment. 3,433,987, 3-18-69, Cl. 310-156.

Theilig, Dietmar: *See—*
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; Witsch, Heinz-Guenter; and Theilig, Dietmar,3,442,600.

Theimer, Ernst T.; Westbrook, John James, III; Wolt, John; and Quinn, Alton Dewitt, to International Flavors & Fragrances, Inc. Lactic acid esters of polyisoprenoid alcohols. 3,449,407, 6-10-69, Cl. 260-484.

Theisman, Jan Bernardus Reint: *See—*
Hoekstra, Piet; and Theisman, Jan Bernardus Reint,3,443,154.

Thelen, Alfred J.: *See—*
Illsley, Rolf F.; Thelen, Alfred J.; and Apfel, Joseph H.,3,442,572.

Thelen, Alfred J., to Optical Coating Laboratory Inc. Multilayer filter with wide transmittance band. 3,423,147, 1-21-69, Cl. 350-166.

Thelen, Roman J., to Pillsbury Company, The. Cooking process and product. 3,479,188, 11-18-69, Cl. 99-86.

Thelen, William, to Bell Telephone Laboratories, Incorporated. Ladder-type band-pass filter end sections. 3,460,073, 8-5-69, Cl. 333-72.

Thelin, Jack Horstmann, to American Cyanamid Company. Compositions of ammonium salt of weak acids and alkaline-earth metal oxides useful for vulcanizing halogen-containing elastomers. 3,441,548, 4-29-69, Cl. 260-86.1

Them, Edward G.: *See—*
Ohlemacher, David H.; and Them, Edward G.,3,470,517.

Themelis, Nickolas J.; and Spira, Paul, to Noranda Mines, Limited. Process for the continuous smelting and converting of copper concentrates to metallic copper. 3,437,475, 4-8-69, Cl. 75-76.

Themy, Tim: *See—*
Gwynn, Ross M.; and Themy, Tim,3,443,055.
Gwynn, Ross M.; and Themy, Tim,3,479,275.

Theobald, Arthur. Combustion devices. 3,481,514, 12-2-69, Cl. 222-500.

Theobald Industries, The: *See—*
McCann, Joseph P., 3,445,448.

Theodor Groz & Sohme & Ernst Beckert Nadelfabrik Commandit-Gesellschaft: *See—*
Wiederhut, Wolfgang; and Strohlein, Rudolf, 3,459,009.

Theodor Wuppermann Gesellschaft mit Beschrankter Haftung: *See—*
Kater, Karl-Heinz; and Wodtke, Hans, 3,456,473.

Theodoropulos, Spyros: *See—*
Hedaya, Eddie; Theodoropulos, Spyros; and Hinman, Richard L.,3,472,817.

Theodosopoulos, James; and Mackay, Stanley, to Sylvania Electric Products, Inc. Method of coating heater coils. 3,450,565, 6-17-69, Cl. 117-212.

Theophilos, Nicholas P.; and Wang, David I-J., to Union Carbide Corporation. Multiple passage heat exchanger utilizing nucleate boiling. 3,457,990, 7-29-69, Cl. 165-133.

Ther, Leopold: *See—*
Ehrhart, Gustav; Ther, Leopold; Alpermann, Hans-Georg; and Ott, Heinrich,3,426,028.

Therachemie chemisch therapeutische Gesellschaft m.b.H.: *See—*
Berth, Peter; Reese, Gunter; and Boosen, Karl-Josef, 3,464,778.
Boosen, Karl-Josef; Berth, Peter; and Reese, Gunter, 3,482,923.

Therapeutic Research Corporation Limited: *See—*
Cowley, John James, 3,432,060.

Theriault, Gerald C.: *See—*
Vogel, Daniel H., Sr.; and Theriault, Gerald C.,3,447,403.

Therm-Appliance Mfg., Co., Inc.: *See—*
Cox, Gerald E.; and Krup, Donald Edward, 3,465,667.

Therm-O-Disc, Incorporated: *See—*
Odson, Clifford S., 3,442,129.
Ohlemacher, David H.; and Them, Edward G., 3,470,517.

Schmitt, Donald J., 3,451,028.
Schmitt, Donald J., 3,470,518.
Snider, Harold F., 3,437,774.
Thermacote Company: *See—*
Vaillancourt, Robert M., 3,470,345.
Thermal Dynamics Corporation: *See—*
Browning, James A., 3,425,223.
Browning, James A.; and Pratt, Chapin A., 3,472,995.
Thermal Engineering & Design Company: *See—*
Himelsbaugh, Rudolph, 3,421,467.
Thermal Hydraulics Corporation: *See—*
Sherwood, John F.; and Staschke, Marvin, 3,439,711.
Sherwood, John F., 3,472,478.
Thermal Industries of Florida, Inc.: *See—*
Libermann, Leonard N.; and Lai, Stanley H., 3,460,125.
Thermal Systems, Inc.: *See—*
Feldman, Rubin, 3,461,289.
Thermal Transfer Corporation: *See—*
Heyn, Fred M.; and Kletch, Stanley J., Jr., 3,483,920.
Thermel Incorporated: *See—*
Norton, William H., 3,429,035.
Thermice Corporation: *See—*
Rubin, Julius, 3,446,030.
Thermiguides S.A.: *See—*
Eppendahl, Pierre Charles; and Maurin, Pierre, 3,478,983.
Thermo Electric Co., Inc.: *See—*
Irani, Keikhosrow, 3,472,073.
Thermo Electron Corporation: *See—*
Kitrilakis, Sotiris, 3,477,412.
Lazaridis, Lazaros J., 3,460,524.
Thermo Electron Engineering Corporation: *See—*
Kitrilakis, Sotiris, 3,422,833.
Lazaridis, Lazaros J.; and Veigel, Neil D., 3,485,296.
Van Someren, Laurence O., 3,432,917.
Thermo King Corporation: *See—*
McClure, Harold E., 3,444,871.
Taylor, David H., 3,472,040.
Thermo Radiant Ovens Pty. Ltd.: *See—*
Jones, Donald Allen, 3,433,375.
Thermo-Dynamics Corporation: *See—*
Eubanks, Joseph H., 3,429,307.
Thermo-Dynamics, Inc.: *See—*
Balch, Joseph C., 3,472,314.
Thermo-Electric Co., Inc.: *See—*
Lambert, Walter, 3,468,723.
Thermo-Industrie G.m.b.H. & Co.: *See—*
Rheinlander, Paul, 3,427,888.
Thermo-Technical Development Limited: *See—*
Lowe, Walter Max; and Squirrell, Frederick, 3,460,457.
Thermodynamic Systems, Inc.: *See—*
Johnson, Don E., 3,477,345.
Thermolyne Corporation: *See—*
Pins, Germain G., 3,475,590.
Thermon Mfg., Co.: *See—*
Bilbro, James E., 3,456,096.
Thermoproof Glass Company: *See—*
McKelvey, Harold E.; and Jendrisak, Joseph E., 3,424,836.
Thermosen, Incorporated: *See—*
Magida, Nathan H.; Lopasic, Alexander Z.; and Wolfner, William, 3,425,008.
Thery, Jacques Louis Marie Joseph: *See—*
Debay, Andre Georges; and Thery, Jacques Louis Marie Joseph,3,428,642.
Thesing, George; and Singe, Eckehard, to Holstein & Kappert Maschinenfabrik 'Phonix' GmbH. Method for the production of tubes. 3,444,792, 5-20-69, Cl. 93-35.
Thetford Engineering Corporation: *See—*
Sargent, Ronald J., 3,475,006.
Theuer, William S.: *See—*
Houlihan, William J.; Manning, Robert E.; and Theuer, William S.,3,435,034.
Theunissen, Ernst; and Sass, Hans-Eckhard, to Bolkow Gesellschaft mit beschrankter Haftung. Method and apparatus for the position stabilization of a flying body. 3,423,047, 1-21-69, Cl. 244-3.18
Theunissen, Gerardus Wilhelmus, to International Standard Electric Corporation. Electrical connector assembly. 3,425,026, 1-28-69, Cl. 339-90.
Theurer, Josef: *See—*
Plasser, Franz; and Theurer, Josef,3,425,360.
Plasser, Franz; and Theurer, Josef,3,429,276.
Plasser, Franz; and Theurer, Josef,3,429,277.
Plasser, Franz; and Theurer, Josef,3,448,522.
Plasser, Franz; and Theurer, Josef,3,448,692.
Plasser, Franz; and Theurer, Josef,3,463,095.
Plasser, Franz; and Theurer, Josef,3,469,533.
Plasser, Franz; and Theurer, Josef,3,469,534.
Plasser, Franz; and Theurer, Josef,3,472,173.
Plasser, Franz; and Theurer, Josef,3,472,174.
Plasser, Franz; and Theurer, Josef,3,479,964.
Plasser, Franz; and Theurer, Josef,3,479,965.
Plasser, Franz; and Theurer, Josef,3,486,461.
Theurer, Richard, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic shutter with swinging-through blades. 3,425,331, 2-4-69, Cl. 95-61.
Thevenaz, Raymond, to Omega Louis Brandt & Frere S.A. Device for fixing a wristband to a watch-case. 3,469,391, 9-30-69, Cl. 58-88.
Theys, Ezra E.: *See—*
Guckel, Gerhart A.; and Theys, Ezra E.,3,442,304.
Thibault, Alphee. Fruit picker. 3,486,599, 12-30-69, Cl. 193-7.
Thibault, Claude: *See—*
Donche, Alain; and Thibault, Claude,3,442,907.
Donche, Alain; and Thibault, Claude,3,485,849.
Jean, Henri; and Thibault, Claude,3,428,604.
Thibault, Harrison N.; and Tosches, Anthony J., to Marshall, John Donald, and Bomar, Horace L., as trustees, mesne. Loom filling positioner. 3,431,951, 3-11-69, Cl. 139-122.
Thibaut, Yves; and Toulemonde, Dominque, to U.S. Philips Corporation, mesne. Door lock safety system for automatic appliances. 3,486,072, 12-23-69, Cl. 317-5.
Thibodaux, Joseph G., Jr. Solid propellant rocket motor. 3,421,325, 1-14-69, Cl. 60-255.
Thibodeau, Raymond J.: *See—*
De Angelo, Charles J., Jr.; and Thibodeau, Raymond J.,3,457,099.
Thiebaut, Roger P. J. G.; Dubosc, Jean-Pierre C. G.; and Mercier, Claude A. L. L., to Eastman Kodak Company. Photoconductive properties of poly-N-vinyl carbazole. 3,485,624, 12-23-69, Cl. 96-1.5
Thieberger, Pedro A., to United States of America, Atomic Energy Commission. Pulse height compensation in time to amplitude conversion. 3,484,703, 12-16-69, Cl. 328-129.
Thiede, Maria nee Mentzner; and Ruthardt, Konrad, to Heraeus, W. C., G.m.b.H. Alloy for pen points. 3,480,429, 11-25-69, Cl. 75-134.
Thiede, Paul W.: *See—*
Adamson, Robert G.; and Thiede, Paul W.,3,468,201.
Thiel, Alfons W. Apparatus for making thin- walled plastic articles. 3,482,281, 12-9-69, Cl. 18-19.
Thiel, Charles G., to Dart Industries Inc. Inhalation-actuated aerosol dispensing device. 3,456,644, 7-22-69, Cl. 128-173.
Thiel, Charles G.: *See—*
Phillips, Robert E.; and Thiel, Charles G.,3,456,646.
Thiel, Max; Winter, Werner; Stach, Kurt; Schaumann, Wolfgang; and Dietmann, Karl, to Boehringer, C. F., & Soehne GmbH. N - Substituted adenosine derivatives. 3,471,472, 10-7-69, Cl. 260-211.5
Thiele, Hans: *See—*
Bucksteeg, Wilhelm; and Thiele, Hans,3,480,542.
Thiele, Heinz: *See—*
Ruhle, Hans; Schottle, Ulrich; Thiele, Heinz; Schwahn, Josef; and Ritze, Arno,3,452,656.
Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Terpenyl aminoalkyl ethers and thioethers. 3,472,845, 10-14-69, Cl. 260-247.7
Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. N-aromatic substituted acid amides. 3,474,107, 10-21-69, Cl. 260-295.5
Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Terpene ester carbamic acids. 3,480,663, 11-25-69, Cl. 260-482.
Thiele, Kurt; and Posselt, Klaus, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. τ-Phenyl-τ-pyridyl alkylamine derivatives. 3,426,034, 2-4-69, Cl. 260-296.
Thiele, Kurt; and von Bebenburg, Walter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Benzyl and pyridylmethyl substituted amido amino pyridines. 3,481,943, 12-2-69, Cl. 260-295.
Thiele, Rudolf W.; and Ziehm, Gunter H., to Fried. Krupp Gesellschaft mit beschrankter Haftung. Reflected-beam system. 3,487,409, 12-30-69, Cl. 343-17.2
Thiele, Tom N., to Allis-Chalmers Manufacturing Company. Voltage responsive pulse width limiting means for pulse modulation system. 3,427,506, 2-11-69, Cl. 317-27.
Thiele, Tom N., to Allis-Chalmers Manufacturing Company. Pulse generating system for gating silicon controlled rectifiers. 3,443,120, 5-6-69, Cl. 307-106.
Thiele, Tom N., to Allis-Chalmers Manufacturing Company. Pulsing current peak level measuring means. 3,465,248, 9-2-69, Cl. 324-103.
Thiele, Tom N., to Allis-Chalmers Manufacturing Company. Protection of a pulse modulated power system. 3,484,652, 12-16-69, Cl. 317-31.
Thiele, Tom N.; and Gerlach, Lester O., to Allis-Chalmers Manufacturing Company. Gyratory crusher clearance measuring means having resonant coupling circuits. 3,436,654, 4-1-69, Cl. 324-61.
Thiele, Tom N.; and Ting, Lawrence J., to Allis-Chalmers Manufacturing Company. Capacitance measuring means for indicating clearance in gyratory crusher and having means to compensate for stray capacitance. 3,436,653, 4-1-69, Cl. 324-61.
Thiele, Wolfgang: *See—*
Dunkel, Eckhard; and Thiele, Wolfgang,3,466,170.

Thielen, David E., to Rolen Diversified Investors, Inc. Dynamic transducer with wall mounted diaphragm. 3,430,007, 2-25-69, Cl. 179-115.5
Thielen, Lawrence E., to Donnelley, R. R., & Sons Company. Method of printing with low condensate printing ink. 3,427,967, 2-18-69, Cl. 101-211.
Thielenhaus, Ernst, Maschinenfabrik, Firma: *See*—
Thielenhaus, Ernst, 3,469,351.
Thielenhaus, Ernst, to Thielenhaus, Ernst, Maschinenfabrik, Firma. Method of and apparatus for machining disk-shaped workpieces. 3,469,351, 9-30-69, Cl. 51-118.
Thielke, Norman R.: *See*—
Sara, Raymond V.; Cox, Mason C.; and Thielke, Norman R.,3,483,126.
Thielking, Roger C.: *See*—
Pelczynski, Paul J.; and Thielking, Roger C.,3,422,217.
Thielmann, Konrad, to Isabellen-Hutte Heusler K.G. Copper-manganese alloys and articles made therefrom. 3,451,808, 6-24-69, Cl. 75-161.
Thiem, Darold W.; Kramlich, C Wesley; and Ballmann, Richard B., to Universal Refractories Corporation. Combination hot top, liner and bottom ring. 3,437,308, 4-8-69, Cl. 249-201.
Thieman, Graham F.: *See*—
Arthur, James C.; and Thieman, Graham F.,3,434,199.
Thieman, Graham F., to Arvin Industries, Inc. Fuel tank filler tube. 3,448,892, 6-10-69, Cl. 220-86.
Thiemann, Joseph Ernst; Lancini, Giancarlo; and Nathansohn, Giangiacomo, to Lepetit S.p.A.4-Pregnene-11β-ol-3,20-dione-[17d,16d,-d]-oxazolines. 3,452,005, 6-24-69, Cl. 260-239.55
Thieme, James O.: *See*—
Every, Richard L.; Thieme, James O.; and Casad, Burton M.,3,437,451.
Thieme, Siegfried: *See*—
Drenkelfort, Hans; and Thieme, Siegfried,3,440,598.
Thien, Gerhard: *See*—
Scheiterlein, Andreas; Skatsche, Othmar; and Thien, Gerhard,3,464,398.
Thienot, Marc O.: *See*—
Verdol, Joseph A.; and Thienot, Marc O.,3,423,355.
Verdol, Joseph A.; and Thienot, Marc O.,3,423,373.
Thierry, Robert J., to United States of America, Army. Multiring seal for obturating the breech of large caliber guns. 3,434,381, 3-25-69, Cl. 89-26.
Thiers, Michel Pierre Francois: *See*—
Chabardes, Pierre Jean Antonine; Grard, Charles Camille Dominique; and Thiers, Michel Pierre Francois,3,444,235.
Chabardes, Pierre; Gandilhon, Pierre; Thiers, Michel; and Grard, Charles,3,449,387.
Thiers, Ralph E., to Bio-Science Laboratories. Fluid processing apparatus and methods. 3,475,128, 10-28-69, Cl. 23-230.
Thiers, Robrecht Julius: *See*—
Willems, Jozef; Hendricx, Edwin Frans; Thiers, Robrecht Julius; and Onghena, Jozef,3,443,951.
Thiersch, Friedrich: *See*—
Knappstein, Johannes; and Thiersch, Friedrich,3,461,037.
Thies, B., Spezialmaschinenfabrik: *See*—
Nonnenmacher, Friedrich Karl; and Schafer, Rudolf, 3,457,989.
Thies, Louis W., Jr.: *See*—
Ford, Ronald K.; and Thies, Louis W., Jr.,3,454,940.
Thies, Peter Willibrord, to Kali-Chemie Aktiengesellschaft. Process of producing therapeutically valuable isovaleric acid esters and products. 3,485,851, 12-23-69, Cl. 260-345.2
Thies, Peter Willibrord; Kucaba, Walter; and Funke, Siegfried, to Kali-Chemie Aktiengesellschaft. Process of producing esters from plants of the genus valeriana. 3,422,090, 1-14-69, Cl. 260-236.5
Thiessen, Elmer E.; Drabik, Walter; and Stigler, Willard R., to General Motors Corporation. Spacer block arrangement for dynamoelectric machine windings. 3,449,609, 6-10-69, Cl. 310-260.
Thiessen, Leo K., to Certain-Teed Products Corporation. Insulated coupling for grooved end pipe. 3,454,287, 7-8-69, Cl. 285-50.
Thigpen, Ben B.: *See*—
Strange, Booth B.; and Thigpen, Ben B.,3,430,727.
Thigpen, Jonathan I., to Hercules Incorporated. Capacitors with polypropylene film and liquid dielectrics. 3,483,452, 12-9-69, Cl. 317-258.
Thikotter, Klaus Hermann, to Metallgesellschaft Aktiegesellschaft. Apparatus for charging liquids with gases. 3,479,017, 11-18-69, Cl. 261-91.
Thilmany Pulp and Paper Company: *See*—
Dratz, Richard A.; and Nelson, Ralph A., 3,450,557.
Thim, Hartwig W., to Bell Telephone Laboratories, Incorporated. Bulk semiconductor diode devices. 3,466,563, 9-9-9, Cl. 330-34.
Thin Film Incorporated: *See*—
Wilhelm, George E.; and Nagy, Stanley S., 3,471,272.
Thiokol Chemical Corporation: *See*—
Adams, Victor J., Jr.; Goldberg, Lloyd W.; and Wolf, Herbert S., 3,462,954.
Bernstein, Philip, 3,445,510.
Bertozzi, Eugene R., 3,422,077.
Bertozzi, Eugene R., 3,440,273.
Bertozzi, Eugene R.; and Berenbaum, Morris B., 3,446,775.
Bertozzi, Eugene R., 3,446,780.
Bolieau, Christopher W., 3,479,954.
Bolner, Thomas E., 3,468,588.
Bulbenko, George F.; and Jackle, William A., 3,455,952.
Bulbenko, George F.; Gobran, Riad H.; and Blommers, Elizabeth A., 3,479,337.
Canon, Max D., 3,424,428.
Card, Theodore B., 3,465,967.
Castellano, Joseph A.; and Green, Joseph, 3,428,672.
Caveny, Leonard H., 3,434,287.
Caveny, Leonard H., 3,440,820.
Chevalaz, Roger A., 3,462,950.
Cologna, Rudy L., 3,486,698.
Cook, George W., 3,475,954.
Davies, Harold, 3,428,293.
Dawbarn, Henry D., 3,445,319.
De Angelo, Charles J., Jr.; and Thibodeau, Raymond J., 3,457,099.
Deltieure, Rene P., 3,455,854.
Desjardins, Stanley P.; and Wright, Charles H., 3,446,436.
Dillehay, David R., 3,426,643.
Eck, John C.; and Zegel, Wiliam C., 3,453,207.
Ehrlich, Robert; and Shapiro, Philip, 3,487,084.
Eldridge, Arthur H., 3,463,982.
Fein, Marvin M.; Green, Joseph; and O'Brien, Eugene L., 3,431,234.
Fein, Marvin M.; Paustian, John E.; and Lichstein, Bernard M., 3,483,258.
Fox, Zola, 3,478,761.
Friedman, Isidore H., Jr., 3,434,291.
Fuentes, Manuel N.; and Cox, Duane Morley, 3,465,966.
Gallagher, John P.; and Walters, Frederick L., 3,453,208.
Glick, Robert L.; and Askins, Robert E., 3,452,544.
Gobran, Riad H.; Santaniello, Anthony F.; and Mazzeo, Michael P., 3,423,376.
Gobran, Riad H.; Santaniello, Anthony F.; and Larsen, Roy, 3,448,091.
Gobran, Riad H.; and Bernstein, Philip, 3,450,681.
Grafstein, Daniel; Bobinski, Jack; and Fein, Marvin M., 3,458,580.
Green, Joseph; Levine, Nathan B.; and Sheehan, William R., 3,427,279.
Green, Joseph; and Schaeffer, Paul F., 3,444,013.
Green, Joseph; and Kotoby, Anatole P., 3,450,798.
Hosek, William S., 3,472,284.
Hosek, William S., 3,478,760.
Johnson, John S.; and McCullough, Edward E., 3,420,469.
Jordan, Galen A., 3,435,715.
Kircher, Hartmann J., III; and Rossetto, James A., 3,426,529.
Lavoie, Johr L., 3,427,809.
Layendecker, Thomas P., 3,425,217.
Lee, Robert E.; and McCullough, Edward E., 3,429,622.
Levine, Nathan B.; and Krainman, Harris, 3,446,759.
Lovingham, Joseph J.; and Sossong, Henry J., 3,431,732.
Lovingham, Joseph J., 3,433,022.
Lovingham, Joseph J., 3,481,543.
Lovingham, Joseph J.; and Kircher, Hartmann J., III, 3,482,404.
Luperi, Mario J.; Tick, Sanford J.; and Taylor, Elliot L., 3,482,397.
MacBeth, Albert W., 3,446,018.
Machen, James C., 3,463,050.
Mangum, Grafton F.; and Whelchel, Carl J., 3,426,528.
Marsh, Walter R.; and Davis, Edward J., 3,469,787.
Mayes, Nathan, 3,440,260.
Mc Cullough, Edward E., 3,478,762.
McCullough, Edward E.; and Dorsey, Edward G., Jr., 3,446,437.
McCullough, Edward E., 3,451,310.
McCullough, Edward E., 3,454,024.
McCullough, Edward E., 3,465,388.
McGregor, James D.; and Corder, Richard E., 3,460,758.
McIntosh, Howard H., 3,441,217.
McIntosh, Meldon J., 3,451,789.
Millen, Edward G., 3,476,826.
Millen, Edward G.; and Koons, Paul A., 3,487,052.
Moy, David; and Young, Archie R., 3,449,090.
Murphy, Donald F., 3,426,534.
Niskanen, Clarence E., 3,446,465.
Olliff, Martin T., Jr.; Hecht, Alfred H.; Brown, Robert H.; and Brooks, William B., 3,421,965.
Olliff, Martin T., Jr.; Lloyd, Julius E.; and Williams, Charles F., 3,436,295.
Olliff, Martin T., Jr.; Williams, Charles F.; Hagler, Travis J.; and Puckett, William R., 3,446,022.
Olliff, Martin T., Jr.; and Puckett, William R., 3,455,579.
Osborn, Stephen W.; Broderick, Edward; and Villa, Jose L., 3,426,039.
Osborn, Stephen W.; and Villa, Jose L., 3,457,277.
Osborn, Stephen W.; and Gobran, Riad H., 3,464,845.
Osborn, Stephen W., 3,472,821.
Osburn, Albert R., 3,426,972.

Osburn, Albert R., 3,427,805.
Owens, Thomas F.; and Roys, George P., 3,486,339.
Panek, Julian R.; and Goodwin, Donald K., 3,466,258.
Paustian, John E.; Fein, Marvin M.; and Cohen, Murray S., 3,436,172.
Paustian, John E.; and Fein, Marvin M., 3,459,607.
Rabe, George B.; and Grossman, Walter B., 3,430,442.
Schaeffer, John I., 3,420,061.
Schaeffer, John I., 3,452,934.
Schwartz, Nelson N., 3,437,688.
Schwarz, William W.; and Shepard, Jack W., 3,423,931.
Smith, Boyd H., 3,464,311.
Smith, Harry F.; and Castellano, Joseph A., 3,479,404.
Townsley, John J.; and Gershon, Milton, 3,432,106.
Turner, James R., 3,441,219.
Upper, Charles E., 3,425,224.
Upper, Charles E., 3,434,494.
Vickers, Dallas N., 3,421,959.
Walton, David A.; and Desjardins, Stanley P., 3,436,021.
Weinberg, Elliot K.; and Loprest, Frank J., 3,450,492.
Yu, Arthur J., 3,425,923.
Zimmet, Donald, 3,474,621.

Thiriaux, Jacques: *See*—
Buu-Hoi, Nguyen P.; Lambelin, Georges; Lepoivre, Constan; Gillet, Claude; and Thiriaux, Jacques,3,479,396.

Thirion, Pierre: *See*—
Besson, Paul; and Thirion, Pierre,3,468,953.

Thirion, Pierre, to Ugine Kuhlmann. Process for manufacturing N-methylbutylamine. 3,442,951, 5-6-69, Cl. 260-583.

Thiry, Gerald J. Door and trunk lock cover. 3,434,318, 3-25-69, Cl. 70-455.

Thoene, Paul F. Stern angle control for outboard motors. 3,460,505, 8-12-69, Cl. 115-41.

Thoennes, Lawrence A., to Kendall Company, The. Plastic collagen sutures. 3,435,825, 4-1-69, Cl. 128-335.5

Tholey, Francis E. J.; and Marek, RobertD., to United States of America, Navy, mesne. Doppler navigation system. 3,462,586, 8-19-69, Cl. 235-150.27

Tholstrup, Clarence E.: *See*—
Blount, William W., Jr.; Gibson, Roger E.; and Tholstrup, Clarence E.,3,440,210.

Tholstrup, Clarence E., to Eastman Kodak Company. Poly-α-olefin compositions having improved stability. 3,440,212, 4-22-69, Cl. 260-45.8

Tholstrup, Clarence E., to Eastman Kodak Company. Poly-α-olefin compositions containing dialkyl-3, 3'-thiodipropionates and polyphenols. 3,450,671, 6-17-69, Cl. 260-45.85

Tholstrup, Clarence E., to Eastman Kodak Company. Poly-alpha-olefins stabilized with a synergistic combination. 3,454,521, 7-8-69, Cl. 260-45.75

Tholstrup, Clarence E., to Eastman Kodak Company. Black polyethylene compositions stabilizer against ultra-violet light degradation with a synergistic mixture of carbon black and a diester of 3,3- thiodpropionic acid. 3,454,522, 7-8-69, Cl. 260-41.

Tholstrup, Clarence E., to Eastman Kodak Company. Poly-alpha-olefins containing a stabilizer composition. 3,454,523, 7-8-69, Cl. 260-45.8

Tholstrup, Clarence E., to Eastman Kodak Company. Poly-alpha-olefin compositions containing synergistic stabilizer combination. 3,454,525, 7-8-69, Cl. 260-45.85

Tholstrup, Clarence E., to Eastman Kodak Company. Stabilized polyolefin compositions. 3,464,954, 9-2-69, Cl. 260-45.85

Tholstrup, Clarence E., to Eastman Kodak Company. Thiodipropionates and phenolic stabilized polyolefin compositions. 3,487,044, 12-30-69, Cl. 260-45.85

Tholstrup, Clarence E.; Bell, Alan; and Kibler, Charles J., to Eastman Kodak Company. Low molecular weight linear thiodipropionic polyesters. 3,466,323, 9-9-69, Cl. 260-481.

Tholstrup, Clarence E.; and Rush, Sarah J., to Eastman Kodak Company. Organic esters stabilized with an alkali metal and an organic phosphite. 3,461,153, 8-12-69, Cl. 260-475.

Thom, David: *See*—
Spershott, Walter E.; Foster, Joseph S.; Thom, David; and Gosling, Dickinson,3,483,962.

Thom, Wenzel, 1/2 to Jones, Cecil D. Extruded roof joint cover. 3,447,273, 6-3-69, Cl. 52-58.

Thoma, Frank, to Daimler-Benz Aktiengesellschaft. Pilot injection for diesel engines. 3,438,359, 4-15-69, Cl. 123-32.

Thoma, Frank, to Daimler-Benz Aktiengesellschaft. Installation for the injection of fuel in internal combustion engines. 3,450,120, 6-17-69, Cl. 123-139.

Thoma, Frank, to Daimler-Benz Aktiengesellschaft. Control device for liquid systems operable in dependence on a physical property of the liquid. 3,483,855, 12-16-69, Cl. 123-140.

Thoma, Jozef A.; and Gielkens, Johannes W., to Stamicarbon N.V. Preparation of methionine nitrile and methionine. 3,446,835, 5-27-69, Cl. 260-465.5

Thoma, Jozef A.; Gielkens, Johannes W.; and Reichrath, Werner, to Stamicarbon N.V. Preparation of 7-chloro-4-thia-oenanthic acid. 3,476,664, 11-4-69, Cl. 204-158.

Thoma, Jozef A.: *See*—
Ottenheym, Johannes H.; Thoma, Jozef A.; and Gregoire, Johannes H.C.M.A.,3,476,665.

Thoma, Matthias, to Chemisches Werk Lowi, Inh. M. Thoma. Nuclear methylation of phenols. 3,422,156, 1-14-69, Cl. 260-621.

Thoma, Otto; Koppe, Herbert; Mentrup, Anton; Zeile, Karl; and Ludwig, Gerhard, to Sohn Boehringer, C. H.1-(3',4',Methylenedioxyphenoxy)-2-amino alkanes. 3,475,455, 10-28-69, Cl. 260-340.5

Thoma, Otto; and Zeile, Karl, to Boehringer Ingelheim G.m.b.H. Utilizing 1-(3,5-dihydroxyphenyl)-1-hydroxy-2-isopropylaminoethane and salts thereof in the treatment of bronchial spasms. 3,422,196, 1-14-69, Cl. 424-266.

Thoma, Paul E., to Johnson Service Company. Humidity sensing element. 3,440,881, 4-29-69, Cl. 73-337.5

Thoma, Paul E., to Johnson Service Company. Crosslinked electrical resistance humidity sensing element. 3,458,845, 7-29-69, Cl. 338-35.

Thoma, Paul E., to Johnson Service Company. Synthetic humidity sensing element and method of preparing the same. 3,461,723, 8-19-69, Cl. 73-335.

Thoma, Roy E., Jr.; and Hebert, Gordon M., to United States of America, Atomic Energy Commission. Coolant salt for a molten salt breeder reactor. 3,448,054, 6-3-69, Cl. 252-71.

Thoma, Wilhelm: *See*—
Oertel, Harald; Rinke, Heinrich; and Thoma, Wilhelm,3,432,456.
Oertel, Harald; Rinke, Heinrich; Thoma, Wilhelm; and Rosendahl, Friedrich-Karl,3,461,106.
Rosendahl, Friedrich Karl; Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich,3,475,377.

Thomae, Charles F. Foam-generating apparatus. 3,424,250, 1-28-69, Cl. 169-15.

Thomaier, Dieter; and Riethmuller, Heinz, to TELDIX Luftfahrt-Ausrustungs G.m.b.H. Gas bearing. 3,447,845, 6-3-69, Cl. 308-122.

Thomaier, Dieter: *See*—
Riethmuller, Heinz; and Thomaier, Dieter,3,431,786.

Thoman, Daniel L.: *See*—
Stoudenheimer, Richard G.; and Thoman, Daniel L.,3,434,876.

Thomanek, Franz R.; and Held, Manfred, to Bolkow Gesellschaft mit beschrankter Haftung. Fuse electrically ignited by piezoelectric generator. 3,438,326, 4-15-69, Cl. 102-70.2

Thomanek, Franz Rudolf, to Bolkow Gesellschaft mit beschrankter Haftung. Self-propelled hollow charge having concave liner with propellant contained therein. 3,439,613, 4-22-69, Cl. 102-49.3

Thomanek, Franz Rudolf. Warhead containing a hollow charge and a fragmentation section. 3,474,731, 10-28-69, Cl. 102-52.

Thomanek, Franz Rudolf; and Schlesiger, Heinz, to Bolkow Gesellschaft mit beschrankter Haftung. Projectile with high initial velocity. 3,478,685, 11-18-69, Cl. 102-24.

Thomas & Betts Co., The: *See*—
Eldridge, Edward L., 3,458,646.
Eppler, Daniel, 3,433,275.
Geisinger, George H., 3,454,247.
Geisinger, George H., 3,454,249.
Hidassy, Laszlo, 3,486,725.

Thomas & Betts Corporation: *See*—
Churla, John J., 3,432,794.
Churla, John J., 3,435,403.
Cole, John M., 3,436,006.
Crimmins, David J.; and Breakfield, Joseph W., 3,465,432.
Curtiss, Lawrence M.; Castellani, Edward J.; and Frey, William G., 3,446,910.
Fritzpatrick, John, 3,452,324.
Herb, Philip J.; and Ecker, Theodore J., 3,430,186.
Herb, Philip J., 3,461,221.
Holmes, Harry J., 3,461,510.
Jackson, David L., 3,457,693.
Kelly, William E., 3,448,430.
Mariani, Remo, 3,457,598.
O'Loughlin, Francis A.; and Logan, Maurus C., 3,427,852.
Piasecki, Raymond F., 3,473,768.
Piasecki, Raymond F., 3,474,397.
Rainey, Walton, 3,477,326.
Schneck, Martin, 3,482,201.
Walldorf, Diann J., 3,486,257.

Thomas , Carl T.: *See*—
Stupar, Timothy D.; and Thomas , Carl T.,3,475,612.

Thomas, Adolf, to Esch-Werke K.G. Load moving striding device. 3,446,301, 5-27-69, Cl. 180-8.

Thomas, Adolf, to Esch-Werke K.G. Charging device at conveyor bands for a quarry. 3,464,536, 9-2-69, Cl. 198-52.

Thomas, Alan Francis: *See*—
Willhalm, Bruno; and Thomas, Alan Francis,3,455,702.

Thomas, Alan H.: *See*—
Harper, James L.; and Thomas, Alan H.,3,472,886.
Harper, James L.; and Thomas, Alan H.,3,483,243.

Thomas, Alan P. L. Drilling and like heads. 3,430,524, 3-4-69, Cl. 77-32.8

Thomas, Anna Belle. Toilet seats and lids therefor. 3,484,876, 12-23-69, Cl. 4-234.
Thomas, Anthony V., to Precision Paper Tube Company. Stripper for intermittent spiral tube winder. 3,482,490, 12-9-69, Cl. 93-80.
Thomas, Aubra D.: *See—*
Gardner, William E.; and Thomas, Aubra D.,3,451,424.
Thomas, Barton A.: *See—*
Heavilon, Jerry L.; Jones, Dennis A.; and Thomas, Barton A.,3,421,587.
Thomas, Bobby J.: *See—*
Brown, Graydon L.; and Thomas, Bobby J.,3,460,648.
Thomas, Carlton E., to Conductron Corporation. Automatic focusing apparatus. 3,450,883, 6-17-69, Cl. 250-204.
Thomas, Carlton E., to Conductron Corporation. Coherent optical noise suppression by optical alignment of spatial filter. 3,482,102, 12-2-69, Cl. 250-201.
Thomas, Catherine R. Washing machine with fast freezing cycle. 3,423,964, 1-28-69, Cl. 68-12.
Thomas, Catherine R. Decorative exhibit and method of producing same. 3,455,045, 7-15-69, Cl. 40-135.
Thomas, Charles H., to Allis-Chalmers Manufacturing Company. Transport time delay unit. 3,445,773, 5-20-69, Cl. 328-121.
Thomas, Charles L., to Sun Oil Company. Method for producing acrolein and methacrolein. 3,428,686, 2-18-69, Cl. 260-604.
Thomas, Charles L., to Sun Oil Company. Oxidation catalyst containing a lead compound and carbonaceous material. 3,444,095, 5-13-69, Cl. 252-441.
Thomas, Charles L., to Sun Oil Company. Method for preparing butadiene. 3,444,260, 5-13-69, Cl. 260-680.
Thomas, Colin Reginald, to United Kingdom Atomic Energy Authority. Polyurethane composition. 3,442,830, 5-6-69, Cl. 260-2.5
Thomas Company, Inc., The: *See—*
Thomas, John R., 3,435,933.
Thomas, Company, The: *See—*
Thomas, John R., 3,459,393.
Thomas, Cornelis: *See—*
Van Koppen, Christianus W. J.; and Thomas, Cornelis,3,420,443.
Thomas, Dalton A. Gear shift mechanism. 3,435,698, 4-1-69, Cl. 74-477.
Thomas, Daniel C.: *See—*
Adams, Dolor N.; Sorkin, Jack L.; and Thomas, Daniel C.,3,455,688.
Thomas, David B.: *See—*
Abercrombie, Malcolm James; and Thomas, David B.,3,480,602.
Thomas, David Brynmor, to Science Research Council. Superconductors. 3,444,495, 5-13-69, Cl. 336-223.
Thomas, David E.: *See—*
Perkins, Paul E.; Perkins, Warren E.; Thomas, David E.; and Taylor, James W.,3,476,877.
Thomas, David F.: *See—*
Bird, John D.; Garner, Howell D.; Lounsberry, Ernest D.; and Thomas, David F.,3,420,471.
Thomas, David G.: *See—*
Cughbert, John D.; and Thomas, David G.,3,462,630.
Henry, Charles H.; and Thomas, David G.,3,439,974.
Lynch, Robert T.; and Thomas, David G.,3,462,320.
Thomas, David Henry: *See—*
Moses, Bernard Cecil; and Thomas, David Henry,3,449,804.
Thomas, David W.: *See—*
Moskowitz, Lawrence; and Thomas, David W.,3,441,834.
Rayner, Christopher Stephen; and Thomas, David,3,465,476.
Thomas, Dean G., to Nelson Muffler Corporation. Exhaust muffler with removable catalytic unit. 3,445,196, 5-20-69, Cl. 23-288.
Thomas, Derek: *See—*
Smith, Geoffrey Howard; Thomas, Derek; and Hall, Andrew Harklestone,3,468,870.
Whittle, Frank; and Thomas, Derek,3,476,196.
Thomas, Donald E.: *See—*
Colbow, Konrad; Garrett, Charles G. B.; and Thomas, Donald E.,3,435,213.
Thomas, Donald J., to Burger Chef Systems, Inc. Mixing assembly for a dispenser. 3,460,716, 8-12-69, Cl. 222-129.1
Thomas, Donald J., to Burger Chef Systems, Inc. Mixing assembly for a dispenser. 3,460,717, 8-12-69, Cl. 222-129.1
Thomas, Earl F.: *See—*
Dooley, Kerry A.; Rockhill, William E.; Swope, David L.; Thomas, Earl F.; and van Fossen, Ralph H., Jr.,3,467,877.
Koch, Robert L.; Thomas, Earl F.; Miklos, Joseph A.; and Curry, William H.,3,426,423.
Thomas, Earl R., to Consolidated Edison Company of New York, Inc. Reverse current flow protector for electric power systems. 3,453,495, 7-1-69, Cl. 317-26.
Thomas, Edward R., Jr., to Northwestern University. Surgical instrument. 3,434,477, 3-25-69, Cl. 128-303.1
Thomas, Edward R., Jr., to Northwestern University. Surgical instrument for cataract removal. 3,439,680, 4-22-69, Cl. 128-303.1
Thomas, Edward V. Nonphase-sensitive summary and averaging A.C. voltmeter. 3,449,672, 6-10-69, Cl. 324-140.
Thomas, Edward V.; and Ransick, Thomas F., to United States of America, Navy. Silent propulsion system for submersible vehicles. 3,448,713, 6-10-69, Cl. 114-151.
Thomas Electronics, Inc.: *See—*
Seats, Peter, 3,447,020.
Thomas, Francis H.; Headrick, Hugh M.; and Schulz, Edmund L., to Sherwin-Williams Company, The. Coating containing a condensate of a phosphate ether polyol and a melamine, an alkylated amine, and a halogenated hydrocarbon. 3,422,046, 1-14-69, Cl. 260-28.
Thomas Frank, to Institut de Recherches de la Siderurgie Francaise. Measuring the temperature of molten metal by radiometry. 3,446,074, 5-27-69, Cl. 73-335.
Thomas, Frank J.; and Worthington, Robert L., to Bendix Corporation, The. Monitoring system for redundant systems. 3,431,557, 3-4-69, Cl. 340-147.
Thomas, Frank J.: *See—*
Kelly, Edwin F.; and Thomas, Frank J.,3,458,322.
Thomas, Frank S., Jr. Jacketed roller-type lint remover. 3,421,170, 1-14-69, Cl. 15-104.
Thomas, Frank S., Jr. Lubricating pad for flat smooth metal surfaces. 3,484,887, 12-23-69, Cl. 15-104.92
Thomas, Frank W. Apparatus for the flue curing of tobacco. 3,437,323, 4-8-69, Cl. 263-19.
Thomas, Geoffrey Bernard: *See—*
Hitchcock, Keith Norman; Thomas, Geoffrey Bernard; and Watson, Henry,3,447,320.
Thomas, George R.: *See—*
Sheehan, William C.; and Thomas, George R.,3,423,417.
Thomas, George W., to United States of America, Army. Multiple trunk digital switching synchronization. 3,459,893, 8-5-69, Cl. 178-69.5
Thomas, Glenn R.: *See—*
Ellsworth, James P.; and Thomas, Glenn R.,3,475,710.
Thomas, Gordon D., to Kimberly-Clark Corporation. Dust mop head having cushion means. 3,465,377, 9-9-69, Cl. 15-147.
Thomas, Gordon D., to Kimberly-Clark Corporation. Oil impregnated creped wadding-synthetic fiber wipe. 3,477,084, 11-11-69, Cl. 15-104.93
Thomas, Harold L., to Southern Illinois University Foundation. Gravity-type rolling ball game device. 3,438,633, 4-15-69, Cl. 273-120.
Thomas, Henry J., to Clark Equipment Company. Upright control system for use in a lift truck. 3,486,333, 12-30-69, Cl. 60-52.
Thomas, Henry, Jr. Automotive vehicle door hinge cover member. 3,422,486, 1-21-69, Cl. 16-148.
Thomas Henry: *See—*
Kellaway, Thomas Henry; and Thomas Henry,3,454,175.
Thomas, Howard M.; and Quigley, Robert A., to Wurlitzer Company, The. Electronic organ preset and cancel mechanism. 3,420,131, 1-7-69, Cl. 84-345.
Thomas, Howard P.: *See—*
Krispinsky, Alois S.; Thomas, Howard P.; and Hamrock, Alfred R.,3,451,730.
Thomas, Hudson A., to GAF Corporation. Controlled removal of coatings from discrete areas of photographic film. 3,440,775, 4-29-69, Cl. 51-319.
Thomas, Ian M.: *See—*
Levene, Leon; and Thomas, Ian M.,3,441,399.
Thomas, Ian M., to Owens-Illinois, Inc. Method for preparing vanadium oxide-catalyzed organopolysiloxanes. 3,433,758, 3-18-69, Cl. 260-33.4
Thomas, Ian M., to Owens-Illinois, Inc. Method for preparing organopolysiloxanes using vanadium chelate hydrolysis catalysts. 3,457,224, 7-22-69, Cl. 260-46.5
Thomas, Ian M., to Owens-Illinois, Inc. Methods for preparing organopolysiloxanes using zirconium-containing catalysts. 3,474,069, 10-21-69, Cl. 260-46.5
Thomas, Ieuan Jenkin: *See—*
Hambling, James Keith; and Thomas, Ieuan Jenkin,3,436,379.
Thomas Industries Inc.: *See—*
Crothers, James W.; and Satterlee, Frederick R., 3,456,483.
Driskell, Thomas, 3,433,887.
McGinty, William K.; and Procknow, Joseph J., 3,422,261.
Thomas, Jack M., to British Iron and Steel Research Association, The. Apparatus to avoid bending during forging. 3,427,853, 2-18-69, Cl. 72-420.
Thomas, James Edward Celfyn: *See—*
Dickinson, George Alfred; Morgan, John Henry; Thomas, James Edward Celfyn; and Oxley, Brian William,3,433,612.
Thomas, James Larue: *See—*
Beacham, Harry Hoyt; Kreinik, Jerry M.; and Thomas, James Larue,3,441,535.
Beacham, Harry H.; Segro, Nicholas R.; and Thomas, James L.,3,483,158.
Thomas, James L., to FMC Corporation. Diallyl melamine-modified diallylic phthalate prepolymer molding composition. 3,455,888, 7-15-69, Cl. 260-78.5
Thomas, James R.: *See—*
Brooks, Alden W.; Bishop, Clinton L.; Thomas, James R.; and Richard, Kenneth D.,3,464,875.

Thomas, Jean Claude, to Produits Chimiques Pechiney-Saint-Gobain. Polymerization of ethylenic monomers. 3,480,606, 11-25-69, Cl. 260-92.8

Thomas, Jess W.; Brown, Joshua R. C.; and Anderson, James J., to Whirlpool Corporation. Apparatus for providing an oxygen contain atmosphere. 3,445,194, 5-20-69, Cl. 23-281.

Thomas, John B.: *See—*
Drenning, John W.; and Thomas, John B.,3,443,358.

Thomas, John F.; and Keller, Karl H., to United States of America, Navy. Water-column optics system. 3,482,903, 12-9-69, Cl. 350-319.

Thomas, John F.; and Ragot, Robert L., to United States of America, Navy. Thruster duct nozzle. 3,424,121, 1-28-69, Cl. 114-151.

Thomas, John M. Interconnecting tubes. 3,469,339, 9-30-69, Cl. 46-28.

Thomas, John P. Hydraulic log grab attachment. 3,462,185, 8-19-69, Cl. 294-118.

Thomas, John R.: *See—*
Jones, Kenneth R.; and Thomas, John R.,3,449,820.

Thomas, John R., to Thomas Company, Inc., The. Pump type hydraulic transmission with inter- changeable spool valves. 3,435,933, 4-1-69, Cl. 192-61.

Thomas, John R., to Thomas, Company, The. Variable power absorbing hydraulic apparatus. 3,459,393, 8-5-69, Cl. 244-63.

Thomas, Klaus: *See—*
Schroder, Ludwig; Thomas, Klaus; and Jerchel, Dietrich,3,461,132.

Thomas, Leonard L.: *See—*
Blount, Lester L.; and Thomas, Leonard L.,3,472,238.

Thomas, Lewis C. Electric fence wire holder. 3,464,671, 9-2-69, Cl. 256-10.

Thomas, Lewis C. Dispensing cartridge with severable portions. 3,472,433, 10-14-69, Cl. 222-541.

Thomas, Lowell E., to Dynamics Research Corporation. Method of making a monometallic mask. 3,449,221, 6-10-69, Cl. 204-15.

Thomas, Lucius Ponder: *See—*
Janson, Eugene Ernst; and Thomas, Lucius Ponder,3,441,669.

Thomas, Lyndon A.: *See—*
Nash, John E.; Medenblik, Henri J.; Thomas, Lyndon A.; and Wilstead, Graham H.,3,438,201.

Thomas, Manuel A., to Deering Milliken Research Corporation. Coated baby panty. 3,439,678, 4-22-69, Cl. 128-284.

Thomas, Manuel A., to Deering Milliken Research Corporation. Collar and cuff-like garment member and method of making it. 3,448,462, 6-10-69, Cl. 2-143.

Thomas, Manuel A., to Deering Milliken Research Corporation. Coating. 3,462,294, 8-19-69, Cl. 117-121.

Thomas, Marvin C. Remote controlled traction device for mounting and demounting on vehicle wheels. 3,422,870, 1-21-69, Cl. 152-214.

Thomas, Morton I.: *See—*
Edwards, Donald W.; and Thomas, Morton I.,3,442,276.

Thomas, Neil L., to Shell Oil Company. Insulating composition and method of application. 3,468,687, 9-23-69, Cl. 106-281.

Thomas, Neil L.; and Petrini, Albert A., to Control Data Corporation. Program protection arrangement. 3,465,297, 9-2-69, Cl. 340-172.5

Thomas, Otto, to Schneider, Jos., & Co. Optische Werke. Control mechanism for camera objective or parts thereof. 3,482,500, 12-9-69, Cl. 95-45.

Thomas, Owen H.; and Watson, Cecil E., to Southern Oregon Reforestation, Inc. Auger and bit therefor. 3,444,940, 5-20-69, Cl. 175-394.

Thomas, Patrick H.; and Holland, Gary R. Ruberoid Co., The Artificially colored mineral granules. 3,420,691, 1-7-69, Cl. 117--062

Thomas, Paul A., to General Motors Corporation. Parts detector control. 3,480,941, 11-25-69, Cl. 340-259.

Thomas, Paul M.; Wright, Lawrence W.; Crile, Eugene E.; Tolleson, Leon H.; and Parmer, Jesse N., to Builders Equipment Company. Brick stacking machine. 3,471,036, 10-7-69, Cl. 214-6.

Thomas, Paul R.: *See—*
Lyons, Joseph F.; Wisner, Jackson W., Jr.; and Thomas, Paul R.,3,429,820.

Thomas, Rainer; Keiler, Wilfred; and Weber, Paul, to Phrix-Werke Aktiengesellschaft. Device for spinning viscose. 3,458,901, 8-5-69, Cl. 18-8.

Thomas, Richard E.: *See—*
Bach, Frederick O.; and Thomas, Richard E.,3,464,353.

Thomas, Richard Edward; Florence, Robert T.; and Shoemaker, Clarence J., to Dick, A. B., Company. Spirit duplication with visible and concealed images. 3,451,143, 6-24-69, Cl. 35-9.

Thomas Richard H.: *See—*
Goplen, Francis A.; McCullough, John W.; and Thomas Richard H.,3,466,516.
Tong, Peter P.; and Thomas, Richard H.,3,461,724.

Thomas, Richard J.: *See—*
Jones, Egbert M.; and Thomas, Richard J.,3,421,015.

Thomas, Robert Albert, to Trefileries Leon Bekaert, PVBA. Highway safety fence posts. 3,450,387, 6-17-69, Cl. 256-13.1

Thomas, Robert J., to United States of America, Atomic Energy Commission. Reflective attenuation and display of pulse signal by means of an abrupt impedance transition in a transmission line. 3,471,783, 10-7-69, Cl. 324-114.

Thomas, Robert M.: *See—*
Duthie, Robert W.; and Thomas, Robert M.,3,487,173.
Kuntz, Irving; and Thomas, Robert M.,3,435,015.
Kuntz, Irving; and Thomas, Robert M.,3,466,313.
Serniuk, George E.; and Thomas, Robert M.,3,426,005.

Thomas, Robert S. Means for cleaning screens in place in a pipeline. 3,469,705, 9-30-69, Cl. 210-411.

Thomas, Robert Warren; Huebner, Edward J.; and Yerger, Harold, to United States of America, Air Force. Lapping device. 3,455,067, 7-15-69, Cl. 51-237.

Thomas, Roy P., to Pan American Petroleum Corporation. Removable subsea drilling guide arm base. 3,464,489, 9-2-69, Cl. 166-0.5

Thomas, Samuel M., Jr.: *See—*
Buuck, Frederick A.; Harden, Phillip L.; and Thomas, Samuel M., Jr.,3,478,349.

Thomas Telfer L.: *See—*
Shetty, Bola Vithal; and Thomas Telfer L.,3,458,575.

Thomas Textile Co., Inc.: *See—*
Swartz, Herbert M., 3,433,396.

Thomas, Thomas W. Automatic crane boom stop about a vertical axis. 3,447,692, 6-3-69, Cl. 212-39.

Thomas, Walter C., to Beckman Instruments, Inc. Bilateral electronic switching circuit employing light-sensitive control element and FET input. 3,467,836, 9-16-69, Cl. 307-249.

Thomas, Walter W.: *See—*
Oppenlander, George C.; and Thomas, Walter W.,3,436,298.
Strauss, Gunther; and Thomas, Walter,3,431,255.

Thomas, Ward, to T & P Mechanical Co., Inc. Condenser air lint filter. 3,486,313, 12-30-69, Cl. 55-400.

Thomas, Wilbur E.; and Nickolaus, Arthur T. Collator. 3,463,481, 8-26-69, Cl. 270-58.

Thomas, Wilford H.: *See—*
Kobetz, Paul; and Thomas, Wilford H.,3,423,446.

Thomas, William J.; and Botha, Louis B., to Barlow, Thos., and Sons, Limited. Down-the-hole rock drill with flushing fluid bypass control. 3,434,548, 3-25-69, Cl. 173-18.

Thomas, William Kenney. Pneumatic lifting apparatus. 3,484,007, 12-16-69, Cl. 214-672.

Thomas, William T.: *See—*
Davenport, Ralph M., Jr.; Kratzer, Alfred L.; Sapp, Robert W.; Thomas, William T.; and Weichardt, Heinz H.,3,468,660.

Thomas, Willie H., 1/2 to Bullard, Anna K. Silk finishing unit. 3,482,342, 12-9-69, Cl. 38-99.

Thomason, James L.: *See—*
De Fellippie, John C.; and Thomason, James L.,3,436,561.

Thomason, James Philip. Poultry house curtain raiser. 3,429,298, 2-25-69, Cl. 119-21.

Thomason, James Philip. Poultry house curtain controller. 3,474,761, 10-28-69, Cl. 119-21.

Thomasson, Leland T.: *See—*
Leyde, Warren L.; Osterhaug, John E.; and Thomasson, Leland T.,3,443,123.

Thome, Paul: *See—*
Foulquier, Henri; Roudier, Rene; and Thome, Paul,3,454,740.
Foulquier, Henri; Roudier, Rene; and Thome, Paul,3,463,899.

Thome, William Leonard, to Midland-Ross Corporation. Control system. 3,446,273, 5-27-69, Cl. 165-26.

Thomford, William F., to Conwed Corporation. Reversible, disposable chalkboard eraser pad, and holder therefor. 3,444,579, 5-20-69, Cl. 15-118.

Thominet, Michel Leon; and Engelhardt, Edward L., to Societe D'Etudes Scientifiques et Industrielles de l'Ile-de-France. Treatment of emesis in mammals with substituted methylenedioxy benzamides. 3,423,512, 1-21-69, Cl. 424-282.

Thomison, William C., to Dow Chemical Company, The. Layer magnesium containing structure. 3,474,732, 10-28-69, Cl. 102-101.

Thomison, William C.; and Slykhouse, Thomas E., to Dow Chemical Company, The. High pressure explosive compositions and method using hollow glass spheres. 3,456,589, 7-22-69, Cl. 102-23.

Thomka, Laddie M., to Dow Chemical Company, The. Packaging of paints and the like. 3,464,546, 9-2-69, Cl. 206-84.

Thommen, Werner: *See—*
Gordon, Alan M.; and Thommen, Werner,3,487,162.

Thompson, Alfred R., Jr.; and Foley, William H., to Corn Products Company. Binder composition for molds and cores comprising reducing sugars and sugars that hydrolyze to form reducing sugars, urea, formaldehyde, and furfuryl alcohol. 3,480,573, 11-25-69, Cl. 260-17.2

Thompson, Alfred: *See—*
Eveson, Geoffrey Frank; and Thompson, Alfred,3,471,016.

Thompson, Alvin L. Extend above car top light. 3,487,360, 12-30-69, Cl. 340-87.

Thompson Bagel Machine Mfg., Corp.: *See—*
Thompson, Meyer, 3,433,182.

Thompson, Benjamin; and Buckner, Thomas E., to Eastman Kodak Company. Process for the production of 2-(propenyl)-2- cyclohexenone. 3,431,305, 3-4-69, Cl. 260-586.
Thompson, Bernard F.; and McDonald, William L., to International Business Machines Corporation. Programming apparatus on a document printer. 3,447,134, 5-27-69, Cl. 340-172.5
Thompson, Brian Hoyle: *See—*
Dent, Frederick James; Thompson, Brian Hoyle; and Conway, Henry Lawrence,3,484,219.
Thompson, Brian J.: *See—*
Silverman, Bernard A.; Thompson, Brian J.; and Parrent, George B., Jr.,3,451,755.
Thompson, Byrd T., Jr.: *See—*
Dew, William F., Jr.; Thompson, Byrd T., Jr.; and Leybourne, Allen E.,3,484,213.
Thompson, Charles D.: *See—*
Hargest, Thomas S.; Artz, Curtis P.; Thompson, Charles D.; and Blocker, Truman G., Jr.,3,428,973.
Thompson, Charles S.: *See—*
Bair, Robert L.; and Thompson, Charles S.,3,441,237.
Maiwurm, Paul S.,3,421,179.
Thompson, Charles S., to Bliss, E. W., Company. Method and means for connecting woven bands. 3,474,507, 10-28-69, Cl. 24-265.
Thompson, Chester C., Jr.: *See—*
Cleland, Marshall R.; and Thompson, Chester C., Jr.,3,458,743.
Thompson, Clyde L., to Dresser Industries, Inc. Ladle brick. 3,463,648, 8-26-69, Cl. 106-65.
Thompson, Dale A.: *See—*
Flajole, Henry J.; Andersen, Fred R.; and Thompson, Dale A.,3,463,236.
Thompson, David Thomas, to Imperial Chemical Industries Limited. Bridged dinuclear Group VIII metal carbonyls containing two different bridging ligands. 3,452,070, 6-24-69, Cl. 260-439.
Thompson, Delford J. Folding clothes rack and utility dresser. 3,479,972, 11-25-69, Cl. 108-29.
Thompson, Donald: *See—*
Kenyon, Robert L.; and Thompson, Donald,3,434,173.
Thompson, Douglas J., to Dorfman, William A. Wire antenna with moveable supports to change the shape. 3,453,630, 7-1-69, Cl. 343-757.
Thompson, Douglas K.; and Allen, Roy, said Thompson assors. to General Motors Corporation. Rotary pump. 3,473,477, 10-21-69, Cl. 103-126.
Thompson, Earl A., Manufacturing Co.: *See—*
Kaufman, Norman C., 3,439,526.
Thompson, Earl A., 3,470,941.
Thompson, Earl A., to Thompson, Earl A., Manufacturing Co. Apparatus for casting metal into each of a series of molds. 3,470,941, 10-7-69, Cl. 164-337.
Thompson, Earl L., to Pullman Incorporated. Pressure relief valve arrangement for double acting hydraulic cushion. 3,458,054, 7-29-69, Cl. 213-43.
Thompson, Edward J.: *See—*
Odinak, Alec; and Thompson, Edward J.,3,450,803.
Thompson, Edward W. Indexing devices. 3,463,515, 8-26-69, Cl. 283-37.
Parsey, Michael Richard; Thompson, Edward; and Walker, Eric,3,420,050.
Thompson, Edwin A.: *See—*
Ward, Fred L.; Thompson, Edwin A.; and Ritchie, Harold D.,3,442,749.
Thompson, Edwin R., to Thompson-Canfield Inc., mesne. Weather sealing insert for doors. 3,453,780, 7-8-69, Cl. 49-482.
Thompson Farms Company: *See—*
Sumyk, George B.; Kyle, Joseph L.; and Hawrylewicz, Ervin J., 3,451,996.
Thompson, Francis T.: *See—*
Booker, Clyde A., Jr.; and Thompson, Francis T.,3,448,402.
Dougan, Roger R.; Thompson, Francis T.; and Rubner, Tibor,3,444,324.
Thompson, Francis T., to Westinghouse Electric Corporation. Digital-analog feedback control system employing solid state digital potentiometer. 3,452,258, 6-24-69, Cl. 318-18.
Thompson, Francis T., to Westinghouse Electric Corporation. Semiconductor time delay circuits. 3,486,041, 12-23-69, Cl. 307-252.
Thompson, Francis T.; and Wavre, Andre, to Westinghouse Electric Corporation. Phase measuring system for electric power networks. 3,469,082, 9-23-69, Cl. 235-151.31
Thompson, Gary M. Pneumatic clutch release on transmission control. 3,435,929, 4-1-69, Cl. 192-3.5
Thompson, George C.; and Stoddard, Paul M. Display means for floral sprays. 3,477,669, 11-11-69, Cl. 248-27.8
Thompson, George D.; and: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,461,393.
Thompson, George J., to Marion Power Shovel Company. Crawler shoe. 3,477,769, 11-11-69, Cl. 305-57.
Thompson, Gordon B.: *See—*
Kaye, Alan R.; and Thompson, Gordon B.,3,472,957.
Thompson, Gordon Bruce, to Northern Electric Company Limited. Signal multiplier providing an output signal substantially free of components proportional to the individual input signals. 3,432,650, 3-11-69, Cl. 235-194.
Thompson, Gordon J. Pill dispenser having a permanently attached dispensing mechanism. 3,446,339, 5-27-69, Cl. 206-42.
Thompson, Gordon Welton, to Du Pont de Nemours, E. I., and Company. Apparatus for dimensional stabilization of thermoplastic film. 3,460,194, 8-12-69, Cl. 18-1.
Thompson, H. V. and T. G., Lumber Co.: *See—*
Wall, James L., 3,454,060.
Thompson, Harry B.; and Morgan, William E., to Hastings Manufacturing Company. Piston ring and method of manufacture thereof. 3,435,502, 4-1-69, Cl. 29-156.63
Thompson Hayward Chemical Co.: *See—*
Dacus, Amon D., 3,483,295.
Thompson, Herbert G., to General Motors Corporation. Mechanical refrigerator door opening system. 3,440,760, 4-29-69, Cl. 49-103.
Thompson, Hobert Kem: *See—*
Bochman, Harry L., Jr.; and Thompson, Hobert Kem,3,437,370.
Thompson, Ivan M.; and Maskal, John, to Dow Chemical Company, The. Method of preparing magnesium hydroxide. 3,451,774, 6-24-69, Cl. 23-201.
Thompson, Ivan M.: *See—*
Maskal, John; Thompson, Ivan M.; and Waldron, George W.,3,447,899.
Thompson, Ivan P., to Union Carbide Corporation. Slag removal method during thermochemical scarfing. 3,436,276, 4-1-69, Cl. 148-9.5
Thompson, James E., to Procter & Gamble Company, The. Culinary composition containing alkyl phosphoryl halides. 3,458,323, 7-29-69, Cl. 99-118.
Thompson, James F.: *See—*
Gondeck, Frederick V.; Hickox, Lester E.; Kennedy, Thomas E.; Perez, Arthur; and Thompson, James F.,3,432,378.
Thompson, James L., to Sinclair Research, Inc. Water flood method with oil soluble surfactant. 3,435,898, 4-1-69, Cl. 166-9.
Thompson, James Mc Allan Cormack: *See—*
Cuthill, James Caithness; and Thompson, James Mc Allan Cormack,3,440,191.
Dinwoodie, Andrew Harper; and Thompson, James Mc Allan Cormack,3,472,867.
Thompson, James McAllan Cormack: *See—*
Dinwoodie, Andrew Harper; and Thompson, James McAllan Cormack,3,449,358.
Dinwoodie, Andrew Harper; Fort, Godfrey; and Thompson, James McAllan Cormack,3,461,134.
Phillips, Irvine L.; Scott, David B.; and Thompson, James M.,3,442,221.
Thompson, James O.: *See—*
Billet, James M.; Orinik, Michael T.; and Thompson, James O.,3,450,553.
Haining, Frank W.; Halperin, Bernard I.; and Thompson, James O.,3,421,895.
Halperin, Bernard I.; and Thompson, James O.,3,427,164.
Halperin, Bernard I.; and Thompson, James O.,3,464,823.
Thompson, James O., to International Business Machines Corporation. Thermal copying process with lignin reaction in copy sheet. 3,471,309, 10-7-69, Cl. 117-1.7
Thompson, James R., to Washington Iron Works. Drive system for yarder used in double main line logging. 3,436,056, 4-1-69, Cl. 253-185.
Thompson, James R., to Washington Iron Works. Snorkel-equipped loading boom with safeguard against destructive bending of snorkel. 3,467,260, 9-16-69, Cl. 212-7.
Thompson, Janet O. Method for permanently waving multicolored hair. 3,441,031, 4-29-69, Cl. 132-7.
Thompson, Jean Dale. Electrical flushing mechanism. 3,452,367, 7-1-69, Cl. 4-100.
Thompson, Jerome B. 1,4,7,10-Tetraazacyclododecene and 1,4,7,10,13- pentaazacyclopentadecene and process for their manufacture. 3,485,818, 12-23-69, Cl. 260-239.
Thompson, John A. Collapsible sawhorse bracket. 3,443,662, 5-13-69, Cl. 182-155.
Thompson, John C.: *See—*
Fuzzell, Joe E.; Thompson, John C.; and Johnson, John L., Jr.,3,477,607.
Johannsen, Bruno B.; and Thompson, John C.,3,428,136.
Thompson, John F., to Weaver, W. R., Company, mesne. Formed reticle for optical sighting instruments. 3,470,616, 10-7-69, Cl. 33-50.
Thompson, John F.: *See—*
Gange, Robert A.; and Thompson, John F.,3,430,075.
Thompson, John H., to Westinghouse Electric Corporation. Transducer having a backing mass spaced a quarter wavelength therefrom. 3,480,906, 11-25-69, Cl. 340-8.
Thompson, John H.: *See—*
Nelkin, Arthur; Durgin, Charles B.; Geil, Fred G.; and Thompson, John H.,3,438,021.
Thompson, John R., Jr., to Sun Oil Company. Fuel cell electrode. 3,458,358, 7-29-69, Cl. 136-86.

Thompson, John Rowson: *See*—
Harvey, John Vipond; and Thompson, John Rowson,3,461,718.
Thompson, John R., to Electronic Industrial Engineering, Inc. Distance measuring system using infra-red ring- around oscillator with a reference loop having a light conducting rod. 3,428,815, 2-18-69, Cl. 250-217.
Thompson, John S.: *See*—
Knapp, Kenneth W.; and Thompson, John S.,3,468,803.
Thompson, Joseph Charles. Convertible tent structure. 3,468,321, 9-23-69, Cl. 135-1.
Thompson, Joseph Charles; and Heisterberg, Milton W., to General American Transportation Corporation. Seal for covered tank floating roof. 3,439,829, 4-22-69, Cl. 220-26.
Thompson, Joseph, to Northern Electric Company Limited. Postpay telephone paystation circuit. 3,474,193, 10-21-69, Cl. 179-6.3
Thompson, Josephus B., to Columbia Broadcasting System, Inc. Tympani handle tension rod for drums. 3,427,917, 2-18-69, Cl. 84-419.
Thompson, Josephus B., to Grover Musical Products, Inc. Guitar machine. 3,431,807, 3-11-69, Cl. 84-306.
Thompson, Josephus B., to Grossman Music Corporation, The. Recorder. 3,438,298, 4-15-69, Cl. 84-380.
Thompson, Josephus B., to Grover Musical Products Incorporated. Violin string tuning and tensioning peg. 3,459,092, 8-5-69, Cl. 84-305.
Thompson, Kenneth; and Ihde, Richard C., to U.S. Plywood-Champion Papers, Inc. Profile coated carton. 3,421,678, 1-14-69, Cl. 229-3.1
Thompson, Kenneth; and Ihde, Richard C., to Champion Papers Inc. Extrusion of thermoplastic films and articles made therefrom. 3,482,278, 12-9-69, Cl. 18-12.
Thompson, Larry D.: *See*—
Brown, Harry W.; and Thompson, Larry D.,3,447,057.
Thompson, Lee V.: *See*—
Solomon, Frank; Zeilicof, Frederica; Thompson, Lee V.; and Blumenstein, Carl R.,3,481,773.
Thompson, Leon J., to International Business Machines Corporation. Moveable element positioning system with coarse and fine incremental control. 3,458,786, 7-29-69, Cl. 318-18.
Thompson, Lionel D., to Holley Carburetor Company. High speed automotive type diesel engine. 3,438,327, 4-15-69, Cl. 103-41.
Thompson, Lionel D.; and Roznіecki, Edward J., to Holley Carburetor Company. Injection nozzle. 3,442,456, 5-6-69, Cl. 239-533.
Thompson, Lionel R. F., to Hawker Siddeley Dynamics Limited. Pulse-width modulators. 3,441,877, 4-29-69, Cl. 332-9.
Thompson, Lloyd W. Cushion. 3,462,779, 8-26-69, Cl. 5-353.
Thompson, Marion L. Exhaust header. 3,470,690, 10-7-69, Cl. 60-32.
Thompson, Max Wood, to Future Products, Inc. Tree felling shear. 3,421,558, 1-14-69, Cl. 144-34.
Thompson, Max W.; and Dacus, Wilburn W., to Future Products, Inc. Tree shearing, topping, and delimbing apparatus. 3,464,468, 9-2-69, Cl. 144-3.
Thompson, Meyer, to Thompson Bagel Machine Mfg., Corp. Automatic feeding cut-off and bagel forming machine. 3,433,182, 3-18-69, Cl. 107-69.
Thompson, Moody C., Jr.; and Wood, Lockett E., to United States of America, Commerce. Optical distance measuring equipment utilizing two wavelengths of light in order to determine and compensate for the density of the air. 3,437,820, 4-8-69, Cl. 250-217.
Thompson, Moody C., Jr.; and Wood, Lockett E., to United States of America, Commerce. Radio-optical refractometer for measuring integrated water vapor refractivity. 3,437,821, 4-8-69, Cl. 250-218.
Thompson, Norbert D. Method of reducing cross contamination in administering anesthesia and apparatus therefor. 3,457,920, 7-29-69, Cl. 128-188.
Thompson, Paul F., to Carlisle Chemical Works, Inc. Process of repelling rodents. 3,480,712, 11-25-69, Cl. 424-245.
Thompson, Paul F.: *See*—
Hechenbleikner, Ingenuin; and Thompson, Paul F.,3,463,644.
Thompson, Perry J., to Lockheed Aircraft Corporation. Coupling. 3,443,453, 5-13-69, Cl. 74-510.
Thompson, Peter John, to United Kingdom Atomic Energy Authority. Hydrostatic extrusion processes. 3,455,134, 7-15-69, Cl. 72-60.
Thompson, Phillip G., to Minnesota Mining and Manufacturing Company. Fluorocarbon compounds. 3,467,718, 9-16-69, Cl. 260-610.
Thompson, Phillip G.; and Prager, Julianne H., to Minnesota Mining and Manufacturing Company. Fluoroxy compounds. 3,442,927, 5-6-69, Cl. 260-453.
Thompson, Phillip G.: *See*—
Prager, Julianne H.; and Thompson, Phillip G.,3,420,866.
Thompson, Quentin E., to Monsanto Company. Meta-chlorinated or brominated phenyl phosphates. 3,436,441, 4-1-69, Cl. 260-966.
Thompson, Quentin E., to Monsanto Company. 1,3,2-Dioxathianes. 3,455,953, 7-15-69, Cl. 260-327.
Thompson, Quentin E.: *See*—
Munch, Ralph H.; and Thompson, Quentin E.,3,458,117.
Thompson, Ransom S.: *See*—
Pendoley, Frederick M., Jr.; and Thompson, Ransom S.,3,426,974.
Thompson, Ray N. All seasons sled. 3,479,046, 11-18-69, Cl. 280-18.
Thompson, Raymond E.: *See*—
Gibson, Wilfred C.; McClintock, Ross A.; and Thompson, Raymond E.,3,474,858.
Thompson, Raymond, to Westinghouse Electric Corporation. Firing circuit for controlling two circuit parameters. 3,475,624, 10-28-69, Cl. 307-262.
Thompson, Raymond; and Harris, James D., to United States Borax & Chemical Corporation. Vulcanization of rubber by use of amine borate activators. 3,434,999, 3-25-69, Cl. 260-41.5
Silver, Howard Bernard; and Thompson, Raymond,3,422,125.
Thompson, Richard A., 49% to Stephenson, Ben S. Electric scissors. 3,421,218, 1-14-69, Cl. 30-228.
Thompson, Richard B.: *See*—
Bement, Lyle W.; Morning, William L.; Benjamin, James E.; South, Richard P.; Thompson, Richard B.; and Anglin, James M.,3,460,032.
Thompson, Richard G.: *See*—
Techler, Thomas W.; and Thompson, Richard G.,3,467,022.
Thompson, Richard T., to United States of America, Air Force. System for generating test signals for an array of receiver channels. 3,471,855, 10-7-69, Cl. 343-17.7
Thompson, Robert D., to Purex Corporation, Ltd. Flash trimming of blow molded articles. 3,464,084, 9-2-69, Cl. 18-5.
Thompson, Robert D.: *See*—
Kluth, Lewis A.; Melville, Richard J.; and Thompson, Robert D.,3,465,590.
Thompson, Robert E.: *See*—
Schmidt, Robert H. E.; and Thompson, Robert E.,3,476,440.
Thompson, Robert G., to Du Pont de Nemours, E. I., and Company. Glycols containing two hydroxymethylcyclohexyl groups. 3,467,719, 9-16-69, Cl. 260-617.
Thompson, Robert G.: *See*—
MacArthur, Alexander D.; and Thompson, Robert G.,3,481,531.
Thompson, Robert J.: *See*—
Basler, Wayne G.; Coburn, Kenneth E.; Greenler, Robert J.; and Thompson, Robert J.,3,481,728.
Thompson, Robert J.; Boaz, Premakaran T.; Cholger, Herbert W.; Gray, Dorian R.; and Meyer, John H., to Ford Motor Company. Process using gas inlets to laterally stretch glass during float glass manufacturing. 3,440,030, 4-22-69, Cl. 65-99.
Thompson, Robert W.: *See*—
Hitchcock, Allen M.; and Thompson, Robert W.,3,446,554.
Thompson, Roger D., to Radio Corporation of America. Color cathode ray tube with radiation-emitting strip-like indexing areas having serrated edges. 3,443,139, 5-6-69, Cl. 313-92.
Thompson, Roger Ross; and Ball, Roger, to English Electric Valve Company Limited. Cathode ray tubes. 3,452,246, 6-24-69, Cl. 315-31.
Thompson, Ron E.: *See*—
Morris, Lester; Thompson, Ron E.; and Seegman, Irvin P.,3,431,239.
Thompson, Roy E.: *See*—
Thompson, Roy E.; and Young, Jurd M., 3,421,197.
Thompson, Roy E.; and Young, Jurd M., to Thompson, Roy E. Long wood lined bearing and process and apparatus for its manufacture. 3,421,197, 1-14-69, Cl. 29-149.5
Thompson, Ruby R. Article of clothing for supporting stockings. 3,459,192, 8-5-69, Cl. 128-535.
Thompson, Seth Waldo. Oscillating lawn sprinkler with adjustable drive and adjustable sprinkler head assembly. 3,455,512, 7-15-69, Cl. 239-242.
Thompson, Stanley G.: *See*—
Bowman, Harry R.; Thompson, Stanley G.; Hyde, Earl K.; and Jared, Richard C.,3,433,954.
Thompson, Stanley P., to Phillips Petroleum Company. Electromagnetic fusion of thermoplastic printing. 3,462,285, 8-19-69, Cl. 117-17.5
Thompson, Stanley S. Quick freeze process. 3,440,831, 4-29-69, Cl. 62-63.
Thompson, Stewart Philip; and Delroy, William, to International Standard Electric Corporation. Ceramic-metal seals. 3,429,736, 2-25-69, Cl. 117-70.
Thompson, Stuart W.: *See*—
Miles, John J., Jr.; Pader, Morton; and Thompson, Stuart W.,3,423,211.
Thompson, Taylor N.: *See*—
Bender, Charles E.; and Thompson, Taylor N.,3,474,543.
Bender Charles E.; Fraser, Douglas S.; and Thompson, Taylor N.,3,463,342.
Thompson, Ted E., to Bethlehem Steel Corporation. Highway barrier. 3,476,362, 11-4-69, Cl. 256-13.1
Thompson, Theodore F. Barge coupling assembly. 3,430,601, 3-4-69, Cl. 114-235.

Thompson, Thomas E.: *See—*
Taplin, Lael B.; Datwyler, Walter F., Jr.; Thompson, Thomas E.; and Madurski, Joseph P.,3,457,938.
Thompson, Thomas K., to United States of America, Atomic Energy Commission. Method of reducing a radioactive waste solution to dryness. 3,479,295, 11-18-69, Cl. 252-301.1
Thompson, Thomas R. Pull tab container having a tearaway and a flexible bladder in the container attached to the pull tab. 3,454,197, 7-8-69, Cl. 222-105.
Thompson, Thomas W. Graphical to electrical function translator. 3,441,922, 4-29-69, Cl. 340-182.
Thompson, Tom H., to Ford Motor Company. Fuel pump system. 3,476,145, 11-4-69, Cl. 137-565.
Thompson, Truman F., to Brower Manufacturing Co. Gas heating unit for brooder. 3,429,306, 2-25-69, Cl. 126-92.
Thompson, Vaughan, Limited: *See—*
Thompson, Vaughan, 3,433,078.
Thompson, Vaughan, to Thompson, Vaughan, Limited. Sludge sampler. 3,433,078, 3-18-69, Cl. 73-424.
Thompson, Vaughan. Portable diamond drill rig. 3,465,830, 9-9-69, Cl. 173-152.
Thompson, Vernon F. Carburetor fuel inlet valve. 3,454,036, 7-8-69, Cl. 137-329.04
Thompson, Vernon R., to Crucible Steel Corporation. Method for producing dispersioned hardenable steel. 3,450,528, 6-17-69, Cl. 75-203.
Thompson, Walter W. Acoustical ceiling structure and panel therefor. 3,452,496, 7-1-69, Cl. 52-145.
Thompson, Wendell L.: *See—*
Parr, Edward L., 3,442,325.
Parr, Edward L., 3,443,179.
Parr, Edward L., 3,447,639.
Parr, Edward L., 3,471,185.
Thompson, Wendell S.: *See—*
Seaborn, Paul E.; and Thompson, Wendell S.,3,434,595.
Thompson, Wilbur O. Novelty pencil holding stand. 3,471,032, 10-7-69, Cl. 211-69.1
Thompson, William B., to General Motors Corporation. Power steering system with hydraulic reaction. 3,433,127, 3-18-69, Cl. 91-372.
Thompson, William C.: *See—*
Abbott, Douglas T.; and Thompson, William C.,3,477,794.
Thompson, William H.: *See—*
Eckerle, Nickolas C.; and Thompson, William H.,3,475,149.
Thompson, William H.; and Ballweber, Edward G., to Nalco Chemical Company. Method of purifying an impure quaternary ammonium salt by addition of an epoxide. 3,468,816, 9-23-69, Cl. 260-2.
Thompson, William H.; and Hunkeler, Edwin C., to United States of America, Navy. Ring specimen cutting jig. 3,456,541, 7-22-69, Cl. 83-415.
Thompson, William J., to Bell Telephone Laboratories, Incorporated. Coaxial capacitor. 3,441,869, 4-29-69, Cl. 330-199.
Thompson, William J., to Cubic Industrial Corporation. Instrument landing system. 3,482,247, 12-2-69, Cl. 343-108.
Thompson, Willian Ansel: *See—*
Moore, Alvin E.; and Thompson, Willian Ansel,3,486,451.
Thompson-Canfield Inc.: *See—*
Thompson, Edwin R., 3,453,780.
Thompson-Hayward Chemical Company: *See—*
Fuhlhage, Donald W., 3,465,081.
Habibi, Mohammad Ali, 3,449,444.
Habibi, Mohammad Ali, 3,475,480.
Taylor, James L., 3,445,575.
Thomsen, Erich: *See—*
Campbell, Jackson E.; and Thomsen, Erich,3,469,784.
Thomsen, Gert Vilner, to K/S Asani. Device for measuring, sewing and cutting endless bands. 3,448,707, 6-10-69, Cl. 112-2.
Thomson, Arthur James: *See—*
Dion, Paul A.; and Thomson, Arthur James,3,444,603.
Thomson, Arthur J., to Texas Instruments, Incorporated. Manufacture of clad wire and the like. 3,444,610, 5-20-69, Cl. 29-470.1
Thomson, Charles Leslie. Enlarger head for use with variable contrast paper. 3,469,914, 9-30-69, Cl. 355-32.
Thomson, Charles, to Cable Belt Limited. Rope-driven conveyors. 3,424,297, 1-28-69, Cl. 198-203.
Thomson, David W., to United States of America, Air Force. Polyxylylidenes. 3,422,071, 1-14-69, Cl. 260-67.
Thomson, Edward T.: *See—*
Houpt, Grover K.; and Thomson, Edward T.,3,434,086.
Thomson, Ely K., to Continental Carbon Company. Apparatus for pneumatically classifying particulate materials. 3,448,856, 6-10-69, Cl. 209-138.
Thomson, Gordon H.: *See—*
Eng, Jackson; Thomson, Gordon H.; and VanderLinden, Ronald C.,3,475,327.
Thomson Informatique & Visualisation T.I.B.: *See—*
Molho, Fred; and Soupirot, Joel, 3,487,405.
Thomson Informatique & Visualisation T.I.V.: *See—*
Floret Felix; Mikailoff, Serge; and Peronneau, Georges, 3,466,608.
Mikailoff, Serge; Peronneau, Georges; and Floret, Felix, 3,466,614.
Thomson, John B. Trunnion for linear anti-friction bearings. 3,438,683, 4-15-69, Cl. 308-6.
Thomson, John B. Machine work holding table. 3,463,049, 8-26-69, Cl. 90-13.
Thomson, John Stevenson. Jib crane. 3,486,635, 12-30-69, Cl. 212-58.
Thomson, Kenneth W.: *See—*
McClellan, Bion W.; and Thomson, Kenneth W.,3,471,227.
Luke, Robert R.; Robinson, Marshall M.; and Thomson, Kenneth,3,445,856.
Thomson Machinery Co., Inc.: *See—*
Overstreet, Le Roy B., Jr., 3,460,329.
Thomson Machinery Company, Inc.: *See—*
Overstreet, Le Roy B.; Brumbaugh, Eugene P.; and Brumbaugh, Bertrand L., 3,475,889.
Thomson, Meredith C., to Stoelting Brothers Company. Stirring paddle assembly for process vat. 3,476,364, 11-4-69, Cl. 259-108.
Thomson, Peter J.: *See—*
Smart, Kenneth J.; and Thomson, Peter J.,3,470,480.
Thomson, Richard N.: *See—*
Larson, Welsey S.; Panicci, Richard L.; Thomson, Richard N.; and Osmalov, Jerome S.,3,466,213.
Thomson, Stewart M.: *See—*
Reynolds, Linton C.; Clifford, Alfred T.; Fooshe, Wesley K., Jr.; and Thomson, Stewart M.,3,425,856.
Thomson, Warren D. Device for splicing electrical wires. 3,422,391, 1-14-69, Cl. 339-97.
Thomson, William W., to Continental Can Company, Inc. Leak detector for paper cups. 3,461,716, 8-19-69, Cl. 73-45.1
Thomson-Varian: *See—*
Bert, Alain G., 3,466,576.
Bert, Alain G., 3,471,738.
Thor, Charles C. Power draw bar hitch. 3,462,172, 8-19-69, Cl. 280-479.
Thor, Dexter J., Jr., to United States of America, Army, mesne. Quadrature signal suppression circuit. 3,426,283, 2-4-69, Cl. 328-166.
Thor, Onarheim, to Stord Bartz Industri A/S. Drying apparatus for drying moist organic or inorganic materials. 3,426,838, 2-11-69, Cl. 165-87.
Thorburn, David H., to Powers Regulator Company, The. Miniature recorder receiver. 3,426,353, 2-4-69, Cl. 346-50.
Thorburn, David H., to Powers Regulator Company, The. Fluid controlling unit. 3,426,782, 2-11-69, Cl. 137-81.5
Thorburn, David H., to Powers Regulator Company, The, mesne. Fluidic memory element. 3,465,777, 9-9-69, Cl. 137-112.
Thorburn, David H.: *See—*
Taylor, Wesley L.; Priesmeyer, Charles H.; Sauerman, Ernest C.; and Thorburn, David H.,3,472,014.
Thorburn, Donald H., to Alco Standard Corporation. Air heating systems. 3,443,799, 5-13-69, Cl. 263-19.
Thorburn, Milton R., to American Optical Company. Laser apparatus. 3,482,183, 12-2-69, Cl. 331-94.5
Thordarson, Jon. Apparatus for manufacturing film from thermoplastic resinous film-forming materials. 3,445,891, 5-27-69, Cl. 18-14.
Thordarson, Petur. Pore pressure. 3,456,509, 7-22-69, Cl. 73-406.
Thorden, Karl Gustaf Birger. Auxiliary propulsion device for ships. 3,464,380, 9-2-69, Cl. 115-29.
Thore, Thomas J., to Singer Company, The. Pneumatic takedown for hosiery machines. 3,443,403, 5-13-69, Cl. 66-149.
Thore, Thomas J.: *See—*
Shaw, Ronald; and Thore, Thomas J.,3,472,048.
Thorel, John P.; Downs, Robert E.; and Sherwood, Donald G., to Westinghouse Electric Corporation. Linear motion device and improved housing therefor. 3,445,690, 5-20-69, Cl. 310-14.
Thorel, John P.; Lee, Chia Huan; and Sherwood, Donald G., to Westinghouse Electric Corporation. Linear motor structure. 3,448,303, 6-3-69, Cl. 310-14.
Thorel, John P.; and Sherwood, Donald G., to Westinghouse Electric Corporation. Linear motion device. 3,445,688, 5-20-69, Cl. 310-14.
Thoren, Georg M. I.; and Lundahl, Lennart V. S., to Alfa-Laval AB. Seal between stationary and rotary parts. 3,476,397, 11-4-69, Cl. 277-83.
Thoren, Olle G.; and Axelson, Hans A., to Refrigeration System AB. Refrigerating method and system for maintaining substantially constant temperature. 3,477,240, 11-11-69, Cl. 62-115.
Thoreson, Robert E.; and Maus, Arthur E., to Thoreson-McCosh, Inc. Tilt table. 3,425,365, 2-4-69, Cl. 108-6.
Thoreson-McCosh, Inc.: *See—*
Thoreson, Robert E.; and Maus, Arthur E., 3,425,365.
Thoris, Jean: *See—*
Richez, Jacques; Dubois, Andre; Battentier, Jean-Claude; Thoris, Jean; and Parizot, Daniel,3,475,627.
Thorium Limited: *See—*
Sherrington, Leonard George; and Hewitt, James Maurice, 3,453,069.

Thorlakson, Daniel O., to Chrysler Corporation. Windshield wiper arrangement. 3,453,679, 7-8-69, Cl. 15-250.16

Thorley, Alan: *See—*
Broise, Yvon Marie-Xavier, 3,442,123.

Thorley, Alan: *See—*
Broise, Yvon Marie-Xavier; and Thorley, Alan,3,442,122.

Thormann, Heinz: *See—*
Schmid-Zeller, Karl; and Thormann, Heinz,3,443,043.

Thorn Electrical Industries Limited: *See—*
Ranby, Peter Whitten; and Norris, Malcolm Owen, 3,454,830.

Thorn Electronics Limited: *See—*
Isaacs, Anthony Leonard; and Allen, Dennis William, 3,449,677.

Thorn, Ewald Reinhard; and Passavant, Rudolf Christian, to Passavant-Werke. Waste water treatment method and apparatus. 3,487,017, 12-30-69, Cl. 210-46.

Thorn, Ewald Reinhard; Weber, Wilhelm; Lemberg, Ernst Siegfried; and Blanche, Josef, to Passavant-Werke. Apparatus for scum removal. 3,437,212, 4-8-69, Cl. 210-525.

Thorn, Frank H., to Phillips Petroleum Company. Regenerating catalyst employing indirect heat exchange in combination reactor-absorber stripper operation. 3,474,036, 10-21-69, Cl. 252-411.

Thorn, William O., Jr.Device for protecting occupant of infant's crib. 3,430,272, 3-4-69, Cl. 5-93.

Thorn-AEI Radio Valves & Tubes Limited: *See—*
Fletcher, Kenneth E.; and Cole, Alfred E., 3,460,879.

Thornber, Ernest C.: *See—*
Erickson, Donald W.; and Thornber, Ernest C.,3,473,548.

Thornber, John Charles Powell: *See—*
Hutcheon, Keith Finer; and Thornber, John Charles Powell,3,421,444.

Thornber, John Charles Powell, to C.A.V. Limited. Liquid fuel supply systems for internal combustion engines. 3,465,733, 9-9-69, Cl. 123-32.

Thornber, John Charles Powell, to C.A.V. Limited. Liquid fuel supply systems for internal combustion engines. 3,481,315, 12-2-69, Cl. 123-32.

Thornber, Michael Neil: *See—*
Duck, Edward William; and Thornber, Michael Neil,3,433,778.
Duck, Edward William; and Thornber, Michael Neil,3,458,488.

Thornblad, Per Gosta: *See—*
Larsson, Per Erik Arne; and Thornblad, Per Gosta,3,447,611.

Thornblad, Rolf F. G., to Svenska Ackumulator Aktiebolaget Jungner. Device in electrical storage batteries and methods for mounting said device. 3,467,550, 9-16-69, Cl. 136-79.

Thornblad, Rolf Filip Gunnar; and Frode, Per Enar Lennart, to Svenska Ackumulator Aktiebolaget Jungner. Multicell storage battery. 3,449,170, 6-10-69, Cl. 136-134.

Thornburg, Francis L.; and Turnley, George E., Jr., to Lockheed Aircraft Corporation. Water jet propulsion apparatus. 3,446,177, 5-27-69, Cl. 115-16.

Thorndyke, Lloyd M.: *See—*
Perkins, Robert L.; Thorndyke, Lloyd M.; and Sullivan, Daniel C.,3,484,760.

Thorne, Benjamin Graham; Lyons, Harold James; and Dingfeld, Albert Vincent, to Otis Elevator Company. Flexible guide clamp safety system. 3,441,107, 4-29-69, Cl. 187-90.

Thorne, Burt. Production of porous plastic materials by means of dielectric heating. 3,487,132, 12-30-69, Cl. 264-25.

Thorne, Dale C.: *See—*
Pearce, Shairyl I.; Thorne, Dale C.; and Starling, James G.,3,481,435.

Thorne, Gale H.: *See—*
Fox, Harold L.; and Thorne, Gale H.,3,472,255.

Thorne, Gerald; and Millikan, Allen F., to Union Oil Company of California. Process for the control of nematodes using petroleum oil and water emulsions. 3,426,126, 2-4-69, Cl. 424-170.

Thorne, Melanie P.: *See—*
Francis, Thomas; Jones, Maurice H.; and Thorne, Melanie P.,3,425,963.

Thorne-Thomsen, Fletcher, to Universal Oil Products Company. Method for making a deletion of film data during the print producing phase. 3,438,708, 4-15-69, Cl. 355-77.

Thorne-Thomsen, Thomas, to Olin Mathieson Chemical Corporation. Quick connect-disconnect coupling. 3,439,943, 4-22-69, Cl. 285-316.

Thorner, Robert H. Pressure generator device. 3,443,441, 5-13-69, Cl. 73-502.

Thorner, Robert H. Automotive speed control apparatus. 3,476,206, 11-4-69, Cl. 180-108.

Thorneycroft, Malcolm, to Churchill, Charles, and Company Limited. Profiling lathes. 3,438,293, 4-15-69, Cl. 82-14.

Thornhill, Alexander F., to United States of America, Navy. Phase locked loop servo system for direct measurement of relative phase. 3,440,535, 4-22-69, Cl. 324-83.

Thornhill, Philip G.; and Coulter, Edward H., to Falconbridge Nickel Mines Limited. Method of precipitating metals as sulphides. 3,450,495, 6-17-69, Cl. 23-135.

Thornhill, William J.; and Welty, Richard O., to Phillips Petroleum Company. Control system to produce cyclical rotary motion. 3,467,905, 9-16-69, Cl. 318-443.

Thornsbery, Herman F. Mechanical broccoli cutter. 3,478,795, 11-18-69, Cl. 146-78.

Thornsen, Bernard L.; Henrich, Robert S.; and Mayer, Leo F., to Bendix Corporation, The. Direct current motor controller. 3,480,849, 11-25-69, Cl. 318-257.

Thornton, Charles R. Mobile cart washer. 3,444,867, 5-20-69, Cl. 134-123.

Thornton, Duane V.: *See—*
O'Leary, Walter E.; Thornton, Duane V.; and Buckthorpe, Tom C.,3,440,971.

Thornton, Ernest R. Adjustable size jumping hoop. 3,466,032, 9-9-69, Cl. 272-74.

Thornton, Harry D.: *See—*
Southwick, Elden M., 3,483,994.

Thornton, James Coward, to Goddard, J., & Sons Limited. Cleaning apparatus for gramophone records. 3,485,502, 12-23-69, Cl. 274-47.

Thornton, James F., to Lummus Company, The. Process for absorbing SO_2 from gases with alkaline earth metal oxides. 3,475,121, 10-28-69, Cl. 23-178.

Thornton, James F.; and Sze, Morgan C., to Lummus Company, The. Stack gas cleaning process. 3,456,622, 7-22-69, Cl. 122-379.

Thornton, James R., to Atlas Chemical Industries, Inc. Emulsified nitric acid blasting composition and method of preparing same. 3,442,727, 5-6-69, Cl. 149-46.

Thornton, Kenneth, to Rolls-Royce Limited. Rotary piston engine gearing. 3,425,620, 2-4-69, Cl. 230-145.

Thornton, Ray F. Locking differential. 3,438,282, 4-15-69, Cl. 74-711.

Thornton, Roger L., to Du Pont de Nemours, E. I., and Company. Boron trifluoridehydrogen fluoride catalyzed synthesis of poly (aromatic sulfone) and poly (aromatic ketone) polymers. 3,442,857, 5-6-69, Cl. 260-47.

Thornton, Stephen F. Beverage container. 3,470,929, 10-7-69, Cl. 150-0.5

Thornton, Thomas: *See—*
Koebner, Adolf; and Thornton, Thomas,3,440,253.

Thornton-Trump, Walter E. Elevator-boom structure. 3,483,948, 12-16-69, Cl. 182-2.

Thornton, William A., Jr., to Westinghouse Electric Corporation. Method of activation of phosphor. 3,431,134, 3-4-69, Cl. 117-33.5

Thornton, William A., Jr., to Westinghouse Electric Corporation. Polychromatic luminescent devices and method of manufacture. 3,460,962, 8-12-69, Cl. 117-33.5

Thornton, William E. Digitized clinical thermometer. 3,477,292, 11-11-69, Cl. 73-362.

Thornwall, Joseph C., to United States of America, National Aeronautics and Space Administration. Regulated D.C. to D.C. converter. 3,427,525, 2-11-69, Cl. 321-2.

Thorp, Benjamin Adelbert, to Huyck Corporation. Water extraction devices. 3,432,385, 3-11-69, Cl. 162-352.

Thorp, James H., to Smyth Manufacturing Company, The. Method of forming and applying tubular back linings to fillers. 3,420,723, 1-7-69, Cl. 156-201.

Thorp, James H., to Smyth Manufacturing Company, The. Book pressing machine with removable creaser irons and tool for removing same. 3,438,075, 4-15-69, Cl. 11-1.

Thorp, James H., to Smyth Manufacturing Company, The. Book pressing machine with improved presser plate and conveyor mechanism and with improved dual channel arrangement. 3,469,270, 9-30-69, Cl. 11-1.

Thorp, James T., Jr., to Lambert Products, Inc. Compressing machine for sealig strip. 3,458,620, 7-29-69, Cl. 264-320.

Thorp, William, to Ferranti, Limited. Manufacture of thermo-electric generators. 3,434,203, 3-25-69, Cl. 29-573.

Thorpe, Foster B., to Honeycomb Systems, Inc. Method of and rivet assembly for joining metal panels. 3,477,336, 11-11-69, Cl. 85-68.

Thorpe, Joseph W. Apparatus for firefighting and the like. 3,485,302, 12-23-69, Cl. 169-2.

Thorpe, Robert A., to International Business Machines Corporation. Logic controlled deflection system. 3,422,304, 1-14-69, Cl. 315-18.

Thorsdalen, Nils: *See—*
Holtermann, Hugo; Haugen, Leif Gunnar; Thorsdalen, Nils; Tjonneland, Knut; Wille, Knut; and Koutroulos, Jean,3,476,802.

Thorsman, Oswald Willy. Clamp for connecting electric wires. 3,448,223, 6-3-69, Cl. 174-87.

Thorson, John T., to Great Lakes Runway & Engineering Company. Detecting unit for conductive metal objects. 3,461,353, 8-12-69, Cl. 317-146.

Thorson, Sheldon E.: *See—*
Anderson, Maynard E.; Balaz, Charles S.; Reus, John F.; and Thorson, Sheldon E.,3,469,777.

Thorsson, Clas Ove: *See—*
Arpas, Ferenc; and Thorsson, Clas Ove,3,441,721.

Thorsson, Matthew T.; and Lauler, Louis J., to Fairbanks Morse Inc., mesne. Control circuits for card operated batcher. 3,432,744, 3-11-69, Cl. 323-74.

Thorsted, Kenneth G.; Renner, Louis C.; and Schmidt, Joseph A., to United States of America, Navy. Propellant spin evaluation apparatus. 3,430,487, 3-4-69, Cl. 73-117.4
Thorstensen, Thomas C.: *See—*
Minklei, Alfred O.; Dexter, Theodore H.; Sconce, James S.; and Thorstensen, Thomas C.,3,421,832.
Thorvaldsson, Kurt Egron, to Telefonaktiebolaget L M Ericsson. Frequency divider. 3,460,129, 8-5-69, Cl. 340-347.
Thouret, Wolfgang E.; and Kee, Harry, to Duro Test Corporation. Compact arc pressure lamp with internal gas circulation through cathodic plasma jet action. 3,474,278, 10-21-69, Cl. 313-231.
Thouret, Wolfgang E.; and Strauss, Herbert S., to Duro-Test Corporation. Metal vapor lamp with metal additive for improved color rendition and internal self-ballasting filament used to heat arc tube. 3,445,719, 5-20-69, Cl. 315-49.
Thourson, Thomas L., to Borg-Warner Corporation. High speed printing system for converting information signals into legible representations. 3,458,655, 7-29-69, Cl. 178-30.
Thousand, John William, Jr., to St. Regis Paper Company. Folding machine. 3,473,449, 10-21-69, Cl. 93-62.
Thow, Lawrence E.: *See—*
Slater, William W.; and Thow, Lawrence E.,3,468,779.
Thoylo Corporation: *See—*
Berger, Isaac, 3,471,145.
Thrall Car Manufacturing Company: *See—*
Woodman, Howard C.; and Harter, Lynn J., 3,478,701.
Thrall, Walter I., to American Meter Company. Safety valve actuator. 3,429,321, 2-25-69, Cl. 137-77.
Thrasher, Bobby R.: *See—*
Opferkuch, Robert E., Jr.; and Thrasher, Bobby R.,3,448,180.
Thrasher, George E., Jr.: *See—*
Gleason, Quin R.; and Thrasher, George E., Jr.,3,421,600.
Thrasher, Howard G.; Rickords, Tommy J.; and Bell, Harold M., Jr., to Litton Systems, Inc. Stabilized platform with cantilevered gimbals. 3,481,208, 12-2-69, Cl. 74-5.34
Threadline Fastener Corporation: *See—*
Coyle, Jan R., 3,437,118.
Threlkeld, John H.: *See—*
Norstrud, Iven R.; and Threlkeld, John H.,3,446,238.
Throckmorton, James R., to Minnesota Mining and Manufacturing Company. Perfluorooxydiacetic anhydride. 3,449,371, 6-10-69, Cl. 260-340.2
Throckmorton, Morford C., to Goodyear Tire & Rubber Company, The. Method of polymerizing butadiene by means of a reaction product of organoaluminum fluoride, certain organonickel compounds and boron trifluoride or its stable complexes. 3,438,958, 4-15-69, Cl. 260-94.3
Throckmorton, Morford C.; and Gordon, Carl E., to Goodyear Tire & Rubber Company, The. Method of polymerizing butadiene or butadiene in mixture with other diolefins. 3,487,063, 12-30-69, Cl. 260-94.3
Throckmorton, Morford C.; and Saltman, William M., to Goodyear Tire & Rubber Company, The. Method of polymerizing butadiene by means of a catalyst containing aluminum alkyls, organonickel compounds, tungsten or molybdenum hexafluoride. 3,446,787, 5-27-69, Cl. 260-94.3
Throckmorton, Morford C.; and Saltman, William M., to Goodyear Tire & Rubber Company, The. Polymerization of butadiene by a catalyst containing aluminum alkyls, organonickel compounds and metal fluorides. 3,446,788, 5-27-69, Cl. 260-94.3
Throckmorton, Morford C.; and Saltman, William M., to Goodyear Tire & Rubber Company, The. Method for the polymerization of butadiene and butadiene in mixture with other diolefins using (1) organometallics, (2) organic Ni or Co, and (3) BF_3 complexed with aldehydes, ketones, esters and nitriles. 3,483,177, 12-9-69, Cl. 260-94.3
Throckmorton, Peter E.: *See—*
McKillip, William J.; and Throckmorton, Peter E.,3,432,475.
Throckmorton, Richard S., to Litton Systems, Inc. Track follower for controlling aircraft flight. 3,436,531, 4-1-69, Cl. 235-150.26
Throop, Lewis J., to Syntex Corporation. Electrolytic reduction of aromatic steroids. 3,444,057, 5-13-69, Cl. 204-59.
Throop, Lewis J., to Syntex Corporation. Electrolytic reduction of cyclopentanophenanthrene derivatives. 3,444,059, 5-13-69, Cl. 204-72.
Thru-Way Equipment Company: *See—*
Jones, Charles E.; and Henry, William C., 3,476,273.
Thrust, Incorporated: *See—*
Macy, James C., 3,467,927.
Macy, James C., 3,486,147.
Thue, Baard H.: *See—*
Follen, Robert J.; and Thue, Baard H.,3,467,961.
Thuiller, Germaine, born Nachmias: *See—*
Rumpf, Paul; and Thuiller, Germaine, born Nachmias,3,448,196.
Thuillier, Helene Suzanne. Electrically operated safety razor. 3,431,644, 3-11-69, Cl. 30-45.
Thuillier, Jean-Eugene: *See—*
Rumpf, Paul; Thuillier, Jean-Eugene; and Chuillier, Germaine, born Nachmias,3,457,273.
Thuillier, Yvonne, to Laboratoires Albert Rolland. Hydroxocobalamine complexes. 3,459,855, 8-5-69, Cl. 424-201.
Thuillier, Yvonne. Lipotropic medicine having as a base betaine acetyl aspartate. 3,470,242, 9-30-69, Cl. 260-501.13
Thull, John F., to Sta-Hi Corporation. Antijamming device for publication conveyor. 3,464,537, 9-2-69, Cl. 198-89.
Thull, John F.; and Oderman, Samuel, to Sta-Hi Corporation. Newspaper-stream reversing apparatus. 3,476,384, 11-4-69, Cl. 271-76.
Thum, Albin; Thum, Fred; and Thum, Walter. Rotatable disc indicia matching game device. 3,469,838, 9-30-69, Cl. 273-1.
Thum, Fred: *See—*
Thum, Albin; Thum, Fred; and Thum, Walter,3,469,838.
Thum, Walter: *See—*
Span, Samuel; and Thum, Walter,3,433,478.
Thum, Albin; Thum, Fred; and Thum, Walter,3,469,838.
Thumim, Carl; Herman, Nicholas; and Des Jardins, James, to Miehle-Goss-Dexter, Incorporated. Continuous three-knife trimmer. 3,424,044, 1-28-69, Cl. 83-255.
Thumm, Hans: *See—*
Kulling, Achim; Steinbach, Hans; and Thumm, Hans,3,457,038.
Thumm, Wilhelm: *See—*
Rausch, Hans; Heitmann, Gunter; and Thumm, Wilhelm,3,428,445.
Thumudo, Mario F., Jr.: *See—*
Frig, Gerald E.; Heuston, Philip T.; and Thumudo, Mario F., Jr.,3,425,067.
Thun, Richard G.: *See—*
Strike, Nicholas L.; Thun, Richard G.; and Radford, David L.,3,464,588.
Thunberg, Jon C.; and Hegarty, James J., to Grace, W. R., & Co. Process for preparing dialkali metal iminodiacetate. 3,463,812, 8-26-69, Cl. 260-534.
Thunberg, Leander O.: *See—*
Gordon, Ernest S.; Schwab, Ronald B.; and Thunberg, Leander O.,3,425,415.
Thunder Enterprises, Inc.: *See—*
Olson, William C., 3,470,918.
Thunholm, Carl Harje Gustav, to Aktiebolaget Bofors. Device for reducing acoustic oscillations originat- ing from the rotation of a prismatic member in a cylindrical casing. 3,477,541, 11-11-69, Cl. 181-33.
Thurber, Margaret Eleanor: *See—*
Thurber, Reginald C.,3,441,140.
Thurber, Reginald C., deceased0 (by Thurber, Margaret Eleanor; executrix), to West Coast Foundation Drilling Co., Ltd. Drain filter. 3,441,140, 4-29-69, Cl. 210-170.
Thurman & Younkin, Inc.: *See—*
Younkin, James R., 3,450,970.
Thurman, Carl C., Jr., to Dow Chemical Company, The. N-fluorinated substituted aziridines. 3,478,017, 11-11-69, Cl. 260-239.
Thurman, Carl C., Jr.: *See—*
Mogford, Riley F.; and Thurman, Carl C., Jr.,3,461,086.
Thurman, George E.: *See—*
Thurman, Merrell E.; and Thurman, George E.,3,452,555.
Thurman, Hoyt Dean, to Singer Company, The. Modular creel. 3,452,947, 7-1-69, Cl. 242-131.
Thurman, Jesse B. Boat trailer tongue extension apparatus. 3,428,336, 2-18-69, Cl. 280-482.
Thurman, Merrell E.; and Thurman, George E. Ice cream freezer. 3,452,555, 7-1-69, Cl. 62-298.
Thurn, Robert Dean, to Du Pont de Nemours, E. I., and Company. Method of increasing the molecular weight of olefin polymers by use of a polyisocyanate. 3,467,628, 9-16-69, Cl. 260-77.5
Thurner, Elmar, to Hilti Aktiengesellschaft. Anchorage nail. 3,478,638, 11-18-69, Cl. 85-28.
Thurston, Edward G., to Bell & Howell Company. Color synchronization for two color per line television systems. 3,456,069, 7-15-69, Cl. 178-5.4
Thurston, Edward G.: *See—*
Reekie, James; and Thurston, Edward G.,3,440,341.
Thurston, Elvin Frederick William: *See—*
Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William,3,431,110.
Ficken, Geoffrey Ernest; Fry, Douglas James; and Thurston, Elvin Frederick William,3,463,640.
Thurston, Franklin J.; and Nazali, Joseph M., to Kaman Aircraft Corporation. Article packaging or handling apparatus. 3,456,424, 7-22-69, Cl. 53-154.
Thurston, James G. Maneuverable jet-propelled tethered flight toy. 3,421,253, 1-14-69, Cl. 46-74.
Thurston, John M. Structural joining system. 3,432,132, 3-11-69, Cl. 248-188.91
Thurston, Raymond L.: *See—*
Gerhardt, Richard E.; and Thurston, Raymond L.,3,444,915.
Thurston, Raymond L., to Vare Corporation, mesne. Bolt assembly. 3,438,416, 4-15-69, Cl. 151-37.
Thurston, Raymond L., to Republic Industrial Corporation. Non directional lock nut. 3,444,916, 5-20-69, Cl. 151-22.

Thurston, Raymond L., to Microdot Inc., mesne. Self-locking thread form for threaded element. 3,460,598, 8-12-69, Cl. 151-22.
Thurston, Woodrow: *See—*
Miller, Harvey; and Thurston, Woodrow,3,464,384.
Thurstone, Frederick L., to United States of America, Health, Education and Welfare. Apparatus for ultrasonic scanning using an elliptic reflecting system. 3,451,260, 6-24-69, Cl. 73-67.9
Thuse, Erik; and Hamilton, Clyde L., to FMC Corporation. Underwater well completion apparatus. 3,473,605, 10-21-69, Cl. 166-0.6
Thweatt, John G., to Eastman Kodak Company. Preparation of hydrocoumarin, coumarin and alkyl substituted derivatives. 3,442,910, 5-6-69, Cl. 260-343.2
Thweatt, John G., to Eastman Kodak Company Eastman Kodak Company. Preparation of acetals of 5-oxopentanals. 3,480,678, 11-25-69, Cl. 260-594.
Thyberg, Victor A., to Frigitronics, Inc. Cryosurgical instruments. 3,451,395, 6-24-69, Cl. 128-303.1
Thyer, Edward G. S., to Fawkham Developments Limited. Transfer valves. 3,433,467, 3-18-69, Cl. 263-21.
Thygesen, Poul, to Topsoe, Haldor Frederik Axel. Reforming with a nickel and nickel oxide catalyst on a magnesium aluminate spinel containing support. 3,436,358, 4-1-69, Cl. 252-466.
Thygeson, John R., Sr., to Proctor & Schwartz, Inc. Dryers. 3,429,057, 2-25-69, Cl. 34-160.
Thylefors, Henric Wilhelm, to Alfa-Laval AB. Method and apparatus for shockless feeding of liquid to the separating chamber of a centrifuge. 3,468,475, 9-23-69, Cl. 233-29.
Thylefors, Henric Wilhelm, to Alfa-Laval AB. Sludge centrifuge. 3,482,771, 12-9-69, Cl. 233-29.
Thyssen Rohrenwerke Aktiengesellschaft: *See—*
Biller, Theodor, 3,466,986.
Thyssens, Leo Maria Hendrik, to International Standard Electric Corporation. Phase difference measuring system. 3,449,748, 6-10-69, Cl. 343-113.
Ti Line Corporation: *See—*
Kuebrich, Herbert P., 3,461,944.
Tiala, Lauri D.: *See—*
Lagermasini, Joseph P.; Leunis, Robert R.; Roberts, Glenn H.; and Tiala, Lauri D.,3,446,408.
Tiao, Hui-li: *See—*
Braun, Richard E.; Tiao, Hui-li; and Verdibello, Ambrose A.,3,486,220.
Tibbals, Edward Camp, Jr., to Dawson, Alexander, Inc., mesne. Adjustable mount for optical element. 3,436,050, 4-1-69, Cl. 248-487.
Tibbals, Edward Camp, Jr., to Dawson, Alexander, Inc., mesne. Subterranean irrigation system. 3,455,054, 7-15-69, Cl. 47-1.
Tibbet, James W. Windshield wiper and washer assembly. 3,427,675, 2-18-69, Cl. 15-250.04
Tibbet, James W. Combination windshield wiper blade and washer assembly. 3,440,678, 4-29-69, Cl. 15-250.04
Tibbetts, Ernest L., to Burroughs Corporation. Pushbutton calculator. 3,446,433, 5-27-69, Cl. 235-145.
Tibbetts, Ernest L., to Burroughs Corporation. Keyboard pushbutton with character visible in depressed position. 3,464,532, 9-2-69, Cl. 197-98.
Tibbetts, Ernest L., to Burroughs Corporation. Electron tube mounting member. 3,467,769, 9-16-69, Cl. 174-138.
Tibbetts, Owen D., to Combustion Engineering, Inc. System for the control of silicon controlled rectifiers. 3,487,292, 12-30-69, Cl. 323-22.
Tibbetts, Raymond E.; and Wilczynski, Janusz S., to International Business Machines Corporation. Lens group employed in laser cavities. 3,433,558, 3-18-69, Cl. 350-225.
Tibbling, Stig B.; and Greenwood, David L., to Varityper Corporation. Photocomposing machine. 3,440,936, 4-29-69, Cl. 95-4.5
Tibbs, Geoffrey T. Storage and handling of chemical substances. 3,462,008, 8-19-69, Cl. 206-47.
Tibbs, Oscar F., 1/2 to Buzick, John W. Air-tight distributor cap. 3,441,690, 4-29-69, Cl. 200-19.
Tiberio, Giuseppe. Automatic progressive transmission. 3,435,710, 4-1-69, Cl. 74-752.
Tibol, George J., to General Instruments Corporation. Process and apparatus for making thin film capacitors. 3,457,614, 7-29-69, Cl. 29-25.42
Tibol, George J., to Solitron Devices, Inc. Schottky barrier semiconductor device. 3,476,984, 11-4-69, Cl. 317-234.
Tiby, Gerard A., to Hobart Manufacturing Company, The. Apparatus for treating food articles. 3,456,659, 7-22-69, Cl. 134-153.
Tice, John D.: *See—*
Davis, Joseph R., Jr.; and Tice, John D.,3,481,862.
Tichy, Oscar A. W.: *See—*
McBride, Harold O.; Tichy, Oscar A. W.; and McNish, Howard G.,3,478,373.
Walker, Douglas J.; and Tichy, Oscar A. W.,3,477,258.
Tick, Sanford J.: *See—*
Luperi, Mario J.; Tick, Sanford J.; and Taylor, Elliot L.,3,482,397.
Tickle, Andrew Charles, to International Computers and Tabulators Limited. Devices employing thin magnetic films. 3,447,139, 5-27-69, Cl. 340-174.
Tickle, John Leslie, 1/2 to Arnold, Peter Bruce. Apparatus for trimming or cutting vines or other vegetation. 3,435,600, 4-1-69, Cl. 56-237.
Ticknor, Leland B., to FMC Corporation. Process for spinning modified xanthated polymers. 3,423,499, 1-21-69, Cl. 264-188.
Tidball, Robert A., to Baldwin-Lima-Hamilton Corporation. Steam generator and method of making the same. 3,465,727, 9-9-69, Cl. 122-32.
Tidd, Edwin B. Cooking device for burning solid fuel. 3,450,123, 6-17-69, Cl. 126-25.
Tidd, Howard A. Intermittently reversing control valve. 3,431,933, 3-11-69, Cl. 137-119.
Tideland Signal Corporation: *See—*
Erath, Louis W.; and Badger, Algernon S., 3,424,989.
Tidemand-Johannessen, Alf. Arrangement for unloading of bulk cargo. 3,458,028, 7-29-69, Cl. 198-213.
Tidewater Oil Company: *See—*
Ridley, Richard D., 3,472,622.
Ridley, Richard D., 3,472,624.
Rodgers, Robert T., 3,467,729.
Tidwell, Joseph S. Liquid height determining device. 3,420,281, 1-7-69, Cl. 141-40.
Tidwell, Thomas T. Method for making candy with gum inside. 3,477,394, 11-11-69, Cl. 107-54.
Tiebor, John E.: *See—*
Joffe, Boris B.; and Tiebor, John E.,3,483,375.
Joffe, Boris B.; and Tiebor, John E.,3,483,382.
Tiede, Ralph L., to United States of America, Atomic Energy Commission, mesne. Glass fibers and treatment therefor. 3,445,254, 5-20-69, Cl. 106-50.
Tiedema, Tiede J., to N.V. Hollandse Metallurgische Industrie Billiton. Utility packing for small-sized objects, punched from metal sheets. 3,472,365, 10-14-69, Cl. 206-56.
Tiedeman, Virginia F. Method for converting skirt to culottes. 3,473,169, 10-21-69, Cl. 2-213.
Tiedemann, Herman H., to GAF Corporation. Continuous anode for electrolytic cells. 3,471,383, 10-7-69, Cl. 204-99.
Tiedje, John L.: *See—*
Eng, Jackson; and Tiedje, John L.,3,442,792.
Eng, Jackson; and Tiedje, John L.,3,484,366.
Tiedje, John Louis; Pasternak, Israel Szabsaj; and Gaspar, Noel John, to Esso Research and Engineering Company. Oxidative dehydrogenation and cracking in molten beds. 3,449,458, 6-10-69, Cl. 260-669.
Tiedtke, Alfred: *See—*
Rosenkranz, Dieter; Tiedtke, Alfred; and Inden, Horst,3,442,460.
Tiefenbacher, Eberhard, to Daimler-Benz Aktiengesellschaft. Recuperative heat exchanger. 3,473,604, 10-21-69, Cl. 165-166.
Tiefenthal, Harlan E.; Miller, Eugene J., Jr.; and Mais, Ago, to Armour Industrial Chemical Company, mesne. Process for preparing primary and secondary amines from amides. 3,457,311, 7-22-69, Cl. 260-583.
Tiefenthal, Harlan E.: *See—*
Miller, Eugene J., Jr.; and Tiefenthal, Harlan E.,3,444,200.
Miller, Eugene J., Jr.; and Tiefenthal, Harlan E.,3,467,708.
Tiefenthal, Josef Maria Herbert; and Baylis, Howard Raymond, to Monotype Corporation Limited, The. Apparatus for composing print. 3,464,331, 9-2-69, Cl. 95-4.5
Tiegel, Ernest G. Process for welding lead onto lead utilizing a special flux composition. 3,424,625, 1-28-69, Cl. 148-23.
Tieman, Charles H.: *See—*
Frankel, Milton B.; and Tieman, Charles H.,3,429,917.
Tieman, Charles H., to Shell Oil Company. Preparation of monochloroacetoacetamides. 3,458,573, 7-29-69, Cl. 260-561.
Tieman, Lloyd E.: *See—*
Arnold, Harmon W.; and Tieman, Lloyd E.,3,462,196.
Tiemann, Jerome J.: *See—*
Hall, Robert N.; and Tiemann, Jerome J.,3,457,631.
Tiemann, Jerome J.; Engeler, William E.; Garfinkel, Marvin; and Fritzsche, Hellmut, to General Electric Company. Optical strain gauge. 3,462,223, 8-19-69, Cl. 356-32.
Tien, Ping K.: *See—*
Buchsbaum, Solomon J.; Mc Fee, James H.; and Tien, Ping K.,3,457,417.
Hutson, Andrew R.; and Tien, Ping K.,3,440,425.
Tienken, Alfred G.: *See—*
Nitsch, Edward J.; and Tienken, Alfred G.,3,448,259.
Tiernan, Stanley C., to North American Rockwell Corporation. Loom reed motion. 3,467,146, 9-16-69, Cl. 139-26.
Tiernan, Stanley C.: *See—*
Nichols, Edward C.; and Tiernan, Stanley C.,3,425,458.
Tierney, Arthur P.: *See—*
Kruse, Louis C.; and Tierney, Arthur P.,3,450,619.
Tierney, Donald R., to York, William F., and Jensen, William S., d/b/a Turf-Vac. Turf vacuuming apparatus. 3,461,479, 8-19-69, Cl. 15-339.

Tierney, Joseph: *See—*
Gold, Bernard; and Tierney, Joseph,3,471,644.
Tierney, Paul A., to Westinghouse Electric Corporation. Thermally stable cellulosic insulation material. 3,429,819, 2-25-69, Cl. 252-63.7
Tierney, Paul A., to Monsanto Company. Anionic lactam catalyst system. 3,450,662, 6-17-69, Cl. 260-30.8
Tierney, Paul A.; and Hedrick, Ross M., to Monsanto Company. Polymerization of lactams. 3,451,963, 6-24-69, Cl. 260-37.
Tierney, Peter R.: *See—*
Prohofsky, Leroy A.; and Tierney, Peter R.,3,440,440.
Ties, Sidney: *See—*
Steptoe, Brian John; Hawgood, David; and Ties, Sidney,3,459,847.
Tietema, Casper J.; and Rodak, Donald M., to Agfa-Gevaert Aktiengesellschaft. Chemical dispenser. 3,482,269, 12-9-69, Cl. 4-225.
Tietz, Raymond F.; and Kenyon, William G., to Du Pont de Nemours, E. I., and Company. 1-Cyanocyclobutene monomer and polymer and their preparation. 3,468,861, 9-23-69, Cl. 260-88.7
Tiffany, Douglas B., to Polaroid Corporation. Photographic processing apparatus. 3,447,437, 6-3-69, Cl. 95-13.
Tiffany, Harry R., III: *See—*
Fields, Irving; Schneiderman, Alvin R.; and Tiffany, Harry R., III,3,443,782.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., to Formfoto Manufacturing Company. Paper guide for electrophotographic copying machine and the like. 3,424,529, 1-28-69, Cl. 355-51.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., to Formfoto Manufacturing Company. Developer tray and supply tank assembly. 3,461,788, 8-19-69, Cl. 95-95.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., to Sunbeam Business Equipment Co. Electrophotographic copying machine. 3,476,479, 11-4-69, Cl. 355-64.
Tigers Rubber Co., Ltd.: *See—*
Sawada, Shigeji, 3,486,532.
Tigges, Gerhard, to Lebrecht Tigges. Apparatus for ejection and insertion of a warp cheese carrier into the axial opening of yarn spools or the like. 3,477,113, 11-11-69, Cl. 29-211.
Tigges, Gerhard, to Tigges, Lebrecht. Closing sleeve for dyeing spindles. 3,481,165, 12-2-69, Cl. 68-198.
Tigges, Gerhard; and Henning, Walter. Lap carrier resiliently compressible in axial direction. 3,465,984, 9-9-69, Cl. 242-118.11
Tigges, Lebrecht: *See—*
Tigges, Gerhard, 3,481,165.
Tigner, Ruben A., to Dow Chemical Company, The. Vacuum package and container therefor. 3,454,158, 7-8-69, Cl. 206-78.
Tignor, Thomas Franklin. Therapeutic vapor bath. 3,466,675, 9-16-69, Cl. 4-160.
T. I. (Group Services) Limited: *See—*
Jones, Alec John, 3,452,584.
Tijssen, Stephanus B.; and Gerritsen, Hans G., to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Process for the preparation of 2,2,5,5-tetra-tert. butylperoxyhexane. 3,472,901, 10-14-69, Cl. 260-610.
Tijssen, Stephanus B.: *See—*
Maltha, Pieter R. A.; and Tijssen, Stephanus B.,3,433,825.
Tijunelis, Donatas: *See—*
Adams, George Mellen; and Tijunelis, Donatas,3,425,976.
Tikhomirov, Alexandr Vasilievich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Tilak, Manohar A., to Lilly, Eli, and Company. Novel amino acid protecting groups. 3,485,810, 12-23-69, Cl. 260-88.2
Tilbury, Lawrence E.; and Maple, Steven E., to Case, J. I., Company. Disk harrow. 3,480,085, 11-25-69, Cl. 172-328.
Tile Council of America, Inc.: *See—*
Fitzgerald, John V.; and Kakos, Michael J., 3,486,960.
Tiley, David Terence, to Bristol Siddeley Engines Limited. Controlling supersonic air intakes. 3,447,325, 6-3-69, Cl. 60-242.
Till, Arthur. Cleaning machines for containers or cans, especially for premix containers. 3,447,543, 6-3-69, Cl. 134-58.
Till, Derek Elliott; Levins, Philip Leo; and Koch, David Hamilton, to Liggett & Myers Tobacco Company, mesne. Permanganate tobacco smoke filter. 3,434,479, 3-25-69, Cl. 131-10.9
Till, Heinrich: *See—*
Zorn, Hermann; and Till, Heinrich,3,448,145.
Till, James Peter, to AMP Incorporated. Over-current short circuit protection circuit. 3,426,265, 2-4-69, Cl. 323-9.
Tillay, Dale; and Blevins, Marvin O. Drop marker. 3,428,019, 2-18-69, Cl. 116-124.
Tillay, Dale; and Blevins, Marvin O. Marking the line of flight of an aircraft. 3,470,846, 10-7-69, Cl. 116-124.
Tille, Manfred: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.
Tillery, Cloyd. Modular sand mold. 3,463,221, 8-26-69, Cl. 164-350.
Tillery, William W. ADF and RMI training aid. 3,485,929, 12-23-69, Cl. 35-10.2
Tilles, Harry; Baker, Don R.; and Dewald, Chester L., to Stauffer Chemical Company. α -Naphthoxy acetamide compositions. 3,480,671, 11-25-69, Cl. 260-559.
Tilles, Harry; and Broadbent, David J., to Stauffer Chemical Company. Certain aziridinyl-phosphorus containing esters as chemosterilants for houseflies. 3,487,151, 12-30-69, Cl. 424-200.
Tilley, James N.: *See—*
Reymore, Harold E., Jr.; and Tilley, James N.,3,420,787.
Sayigh, Adnan A. R.; and Tilley, James N.,3,458,605.
Tilley, Richard B.: *See—*
Pihl, George E.; and Tilley, Richard B.,3,425,055.
Tillis, William J.: *See—*
Hogya, Bernard J.; and Tillis, William J.,3,476,624.
Tillman, Alfred, to Marotta Valve Corporation. Electromagnetic actuator with permanent magnets. 3,460,081, 8-5-69, Cl. 335-234.
Tillman, Alfred, to Marotta Valve Corporation. Fluid flow fuse. 3,476,141, 11-4-69, Cl. 137-498.
Tillman, Cassius L., III. Well pressure control apparatus. 3,431,965, 3-11-69, Cl. 166-89.
Tillman, Cassius L., III. Bifaced wedged gate valve. 3,434,692, 3-25-69, Cl. 251-202.
Tillman, John E., to Leesona Corporation, mesne. Toroidal coil winder. 3,451,631, 6-24-69, Cl. 242-4.
Tillman, Max L., to Sunbank Electronics, Inc. Odometer for golf cart. 3,458,128, 7-29-69, Cl. 235-95.
Tillmann, Johannes Hermann, to Northern Electric Company Limited. Time delay de-energization of relays using thermistors. 3,486,080, 12-23-69, Cl. 317-132.
Tillmann, Peter, deceased (by Tillmann, Margarete, sole heir); Kulling, Achim; and Hitzemann, Gerhard, to Titangesellschaft mbH. Manufacture of fine particle size titanium dioxide. 3,479,148, 11-18-69, Cl. 23-202.
Tillotson, Clara S. Wig girdle. 3,474,798, 10-28-69, Cl. 132-53.
Tillotson Corporation: *See—*
Tillotson, Neil E., 3,487,146.
Tillotson, John G., to Advance Finishing, Inc. Production of random dyed pile textiles. 3,447,215, 6-3-69, Cl. 28-75.
Tillotson Manufacturing Company, The: *See—*
Meininger, James R., 3,472,211.
Nutten, Warren D.; and Phillips, Bernard C., 3,428,406.
Nutten, Warren D.; and Holland, Norman F., 3,453,994.
Phillips, Bernard C., 3,454,265.
Turner, Robert K., 3,424,091.
Tillotson, Neil E., to Tillotson Corporation. Process for dip molding articles having portions of increased thickness. 3,487,146, 12-30-69, Cl. 264-303.
Tilly, Guy, to Laboratoires Andre Guerbet. Derivatives of 2,4,6-triiodo-3 hydroxy-benzene as X-ray opacifiers. 3,452,134, 6-24-69, Cl. 424-5.
Tilly, John Frederick, to International Standard Electric Corporation. Supervisory circuits for checking a repeater in a carrier current communication system. 3,482,059, 12-2-69, Cl. 179-175.31
Tilly, Ralph R., to Xerox Corporation. Document conveyor unit. 3,424,528, 1-28-69, Cl. 355-49.
Tilney-Bassett, Julian Frodo, to Imperial Smelting Corporation (N.S.C.) Limited. Preparation of highly fluorinated aromatic compounds. 3,424,804, 1-28-69, Cl. 260-650.
Tilney, Ralph B.; and Chapman, George H., to Alco Controls Corporation. Parallel check valve such as used for vehicle braking. 3,450,158, 6-17-69, Cl. 137-598.
Tilney, Richard; Netherstreet, Jack H.; Mangnall, Derek; and Jones, Samuel H. Electrostatic spray coating apparatus. 3,486,483, 12-30-69, Cl. 118-626.
Tilse, Wilhelm; and Weise, Rolf, to United States Time Corporation, The. Frequency standard. 3,477,223, 11-11-69, Cl. 58-23.
Tilseth, Orie H. Dish lip plate attachment. 3,422,986, 1-21-69, Cl. 220-85.
Tilt-A-Door Corporation: *See—*
Smith, Wesley A., 3,442,318.
Tilton, Andre E.: *See—*
Patterson, Robert J.; and Tilton, Andre E.,3,440,068.
Tilus Carl W., to Westinghouse Electric Corporation. Oven door construction. 3,439,668, 4-22-69, Cl. 126-190.
Tilus, Carl W., to Westinghouse Electric Corporation. Catalytic smoke eliminator for high temperature self-cleaning ovens. 3,470,354, 9-30-69, Cl. 219-393.

Timax Associates: *See—*
Slatin, Harvey L., 3,453,187.
Timber Imports, Inc.: *See—*
Glasgow, James C., 3,426,495.
Timberjack Machines Limited: *See—*
White, Idas B., 3,450,006.
Timberlake, Dale L.; and Kean, Wallace R. Occluder. 3,466,750, 9-16-69, Cl. 32-32.
Time & Motion Dentistry Corporation of America: *See—*
Gordon, Fred G.; and Hermstad, Norman H., 3,427,719.
Time, Incorporated: *See—*
Byers, Donald J.; Leekley, Robert M.; and Murray, Margaret H., 3,474,071.
Means, John A., 3,438,854.
Time Research Laboratories, Inc.: *See—*
Morrone, Ross F., 3,486,004.
Time-O-Matic, Inc.: *See—*
Schulenburg, Edward J., 3,455,046.
Timin, Mitchell E.: *See—*
Strand, Torstein; Levinsky, Ely S.; and Timin, Mitchell E.,3,430,894.
Timken Roller Bearing Company, The: *See—*
Conover, Robert E., 3,459,073.
Edwards, Herbert C.; Lytle, Ronald Lee; and Haburn, Joseph, 3,483,604.
Green, Walter F.; Williams, Robert L.; and McCoy, Wyn E., 3,420,589.
Morton, James D., 3,454,182.
Timm, Joe F.: *See—*
MacSorley, Olin L.; Spencer, Dana R.; and Timm, Joe F.,3,484,592.
Timmer, Henry: *See—*
Leedy, Charles D., 3,454,019.
Timmerbeil, Hans Jochen; and Timmerbeil, Hugo, Jr., to Titan Eisenwarenfabrik G.m.b.H. Strip-shaped strapping, particularly for pressed bales. 3,457,599, 7-29-69, Cl. 24-20.
Timmerbeil, Harald, to Titan Eisenwarenfabrik G.m.b.H. Fastenings for metal straps. 3,426,392, 2-11-69, Cl. 24-20.
Timmerbeil, Hugo, Jr.: *See—*
Timmerbeil, Hans Jochen; and Timmerbeil, Hugo, Jr.,3,457,599.
Timmerman, Gerrit: *See—*
Sol, Cornelis, 3,444,909.
Timmerman, Julius W., Jr., to Allis-Chalmers Manufacturing Company. Means for paralleling direct current sources having different output characteristics. 3,443,115, 5-6-69, Cl. 307-66.
Timmerman, Robert, to Radiation Processing, Inc. Radiation grafting of mono- and di-acrylates of lower polyhydric alcohols and polyhydric alcohols and polyhydric alcohol ethers to cotton and wool. 3,467,488, 9-16-69, Cl. 8-116.
Timmermans, Franciscus: *See—*
Golombek, Werner; and Timmermans, Franciscus,3,462,704.
Timmons, Archie Durwood, to Tri-State Oil Tool Industries, Inc. Method of handling a well pipe. 3,422,524, 1-21-69, Cl. 29-429.
Timmons, Archie Durwood, to Tri-State Oil Tool Industries, Inc. Apparatus for protecting well pipe. 3,434,191, 3-25-69, Cl. 29-200.
Timmons, Frederick D.: *See—*
Broadhead, Ronald L.; and Timmons, Frederick D.,3,448,154.
Timmons, Richard J.: *See—*
Mc Vey, George R.; Long, John A.; and Timmons, Richard J.,3,462,257.
Timmons, William D., Jr.; and Worsham, Walter C., to Celanese Corporation, and Fiber Industries, Inc. Process for producing polyester yarn. 3,481,136, 12-2-69, Cl. 57-164.
Timms, Leon M.; and McKusick, John C. Manufacture of adhesive shipping units. 3,465,354, 9-2-69, Cl. 93-61.
Timms, Peter L.: *See—*
Margrave, John L.; and Timms, Peter L.,3,485,862.
Timms, Richard M., to Troxel Manufacturing Company. Safety reflector means for bike seat structure. 3,463,439, 8-26-69, Cl. 248-480.
Timms, Richard M., to Troxel Manufacturing Company. Support means for a saddle. 3,486,727, 12-30-69, Cl. 248-397.
Timms, Robert J.: *See—*
Perini, Harry R.; Stangel, John J.; Timms, Robert J.; and D'Agostino, Jack V.,3,453,636.
Tims, Fred W., Jr., to Camson Manufacturing Company, The. Hand tool for cutting sheet material. 3,478,427, 11-18-69, Cl. 30-293.
Tims, Walter D.: *See—*
Sargent, John C.; Blome, James C.; Tims, Walter D.; and Mills, John P.,3,475,262.
Timson, William J., to Union Carbide Corporation. Boiling heat transfer system. 3,433,294, 3-18-69, Cl. 165-1.
Timson, William J.: *See—*
Nawn, George H.; and Timson, William J.,3,424,581.
Timura, James A.: *See—*
Liersc, Kurt F.; and Timura, James A.,3,429,172.
Tindall, John B., to Commercial Solvents Corporation. Purification of alkanol amines. 3,428,684, 2-18-69, Cl. 260-584.
Tindall, John B., to Commercial Solvents Corporation. Separation of nitroalkanes and alkanes by codistilling with methanol. 3,480,516, 11-25-69, Cl. 203-66.
Tindall, John B., to Commercial Solvents Corporation. Purification of nitroethane by azeotropic distillation with n-heptane or isooctane. 3,480,517, 11-25-69, Cl. 203-70.
Tindall, John B., to Commercial Solvents Corporation. Separation of nitromethane and nitroethane by codistilling with pentane. 3,480,518, 11-25-69, Cl. 203-70.
Tindall, John M.: *See—*
Cannon, Lester E.; Tindall, John M.; and Taylor, Howard N.,3,474,594.
Tindall, Marion E. Safety light. 3,457,397, 7-22-69, Cl. 240-8.2
Tindell, William A., Jr.: *See—*
O'Loughlin, Bernard T.; and Tindell, William A., Jr.,3,432,151.
Tiner, Robert F.; and Brandon, O. B. Toy horseshoe game. 3,467,384, 9-16-69, Cl. 273-101.
Tinfow, Lionel; and Winton, Sidney V. Apparatus and methods for manufacturing a simulated blister pack. 3,461,644, 8-19-69, Cl. 53-39.
Ting, Lawrence J.: *See—*
Thiele, Tom N.; and Ting, Lawrence J.,3,436,653.
Ting, Lawrence K. M., to Polaroid Corporation. High voltage switch for a color television receiver. 3,447,028, 5-27-69, Cl. 315-30.
Ting, Lee-Sen: *See—*
Chu, David C.; and Ting, Lee-Sen,3,434,065.
Ting, Youn H.: *See—*
Sandstrom, Clifford L.; and Ting, Youn H.,3,453,837.
Tingley, Egbert M., to Roper, Geo., D., Corporation. Door construction and ventilating system for microwave oven. 3,430,023, 2-25-69, Cl. 219-10.55
Tingley, Egbert M., to Roper, Geo. D., Corporation. Closure for microwave oven. 3,484,573, 12-16-69, Cl. 219-10.55
Tingley Rubber Corporation: *See—*
Le Compte, Frank M., 3,433,200.
Le Compte, Frank M., 3,477,402.
Tingquist, Stanley C.; Talbot, Albert M.; and Hagedorn, William H., to Howmet Corporation. Method for vacuum melting and casting. 3,460,604, 8-12-69, Cl. 164-61.
Tingquist, Stanley C.; and Trench, William H., to Howmet Corporation. Method for manufacture of refractory shell molds. 3,429,358, 2-25-69, Cl. 164-26.
Tingue, Brown & Company: *See—*
Shaw, Robert W., 3,464,733.
Tini, Dante, to International Standard Electric Corporation. Retractor. 3,483,898, 12-16-69, Cl. 179-155.
Tinius Olsen Testing Machine Company: *See—*
Karpchuk, Sylvester, 3,479,885.
Tinker, Barrie: *See—*
Keats, George Harold; and Tinker, Barrie,3,447,943.
Tinklepaugh, Kenneth N.: *See—*
Crowell, Charles J., Jr.; and Tinklepaugh, Kenneth N.,3,461,073.
Tinley, John William, to Bangor Punta Operations, Inc., mesne. Discharging particulate material from storage means. 3,435,536, 4-1-69, Cl. 34-57.
Tinman, Hugh J. Illuminated educational device. 3,452,456, 7-1-69, Cl. 35-34.
Tinnerman, George A. Utility clip. 3,431,607, 3-11-69, Cl. 24-243.
Tinnerman, George A. Mid-span deck wedge lock. 3,438,169, 4-15-69, Cl. 52-712.
Tinnerman, George A. Groove cutting rotating fastener. 3,456,705, 7-22-69, Cl. 151-38.
Tinnerman, George A. Composite fastener. 3,468,212, 9-23-69, Cl. 85-32.
Tinnerman, George A. Constant torque sheet metal fastener. 3,476,163, 11-4-69, Cl. 151-14.
Tinnerman Products, Inc.: *See—*
Bennett, Alan J., 3,444,917.
Buttriss, Albert J., 3,459,396.
Flora, Laurence H., 3,434,521.
Flora, Laurence H., 3,478,395.
Holton, Robert J., 3,459,094.
Schuplin, Jerome T., 3,465,992.
Strange, John, 3,428,344.
Strange, John, 3,454,071.
Van Niel, Clarence R., 3,478,801.
Tinnes, Bernhard J.: *See—*
Bick, Klaus; and Tinnes, Bernhard J.,3,433,288.
Tinnes, Bernhard, to Metacon AG. Molten metal pouring spout. 3,459,346, 8-5-69, Cl. 222-566.
Tino, Joseph R.: *See—*
Hohmann, Frank G.; Matthias, George D.; Tino, Joseph R.; and Wellmann, Gerhard F.,3,461,491.
Tinsley, Ronald E.: *See—*
Schroeer, Rudi M.; Frank, Johann E.; and Tinsley, Ronald E.,3,457,770.
Tinsley, Samuel W., Jr.: *See—*
Rick, Edward A.; and Tinsley, Samuel W., Jr.,3,459,775.
Marcus, Erich; Mac Peek, Donald L.; and Tinsley, Samuel W.,3,455,966.
Tinsley, Samuel W.; and King, Paul A., to Union Carbide Corporation. Epoxyalkyldioxanes and their use as textile finishing agents. 3,432,342, 3-11-69, Cl. 117-139.4

Tinsley, Samuel W.; and King, Paul A., to Union Carbide Corporation. Epoxyoxacyclobutanes and polymers thereof. 3,457,193, 7-22-69, Cl. 260-2.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr., to Union Carbide Corporation. Diepoxide compositions. 3,428,612, 2-18-69, Cl. 260-78.4
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr., to Union Carbide Corporation. Tetracyclo epoxy ether monomer and compositions. 3,472,796, 10-14-69, Cl. 260-2.
Tinsley, William B. Swivel joint for wells being pumped. 3,477,748, 11-11-69, Cl. 285-267.
Tinsley, William D., Jr. Coin controlled actuating mechanism. 3,455,427, 7-15-69, Cl. 194-55.
Tint, Howard, to American Home Products Corporation. Tablet dosage-form for the immunization of the intestinal tract with live virus preparations. 3,458,621, 7-29-69, Cl. 424-2.
Tinyakova, Elena Ivanovna: *See*—
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.
Tip-O-Matic Company: *See*—
Kaerwer, George, 3,471,150.
Tipotsch, Donald George, to Beckman Instruments, Inc. Wavelength programmed monochromator device with adjustable entrance and exit cam operated slit means for providing a variable proportionality factor between their widths. 3,462,227, 8-19-69, Cl. 356-100.
Tipper, Maynard J. G., to Rheem Manufacturing Company. Apparatus for evacuating and sealing flexible containers. 3,470,673, 10-7-69, Cl. 53-112.
Tippett, Charles E.: *See*—
Betty, Roy J.; Malec, Robert E.; and Tippett, Charles E.,3,457,185.
Tipplets, Karl Guymon, to Du Pont de Nemours, E. I., and Company. Method of lubricating blind holes. 3,443,308, 5-13-69, Cl. 29-558.
Tippmann Engineering, Inc.: *See*—
Tippmann, Joseph R., 3,477,668.
Tippmann, Joseph R., to Tippmann Engineering, Inc. Supporting base for industrial refigeration apparatus. 3,477,668, 11-11-69, Cl. 248-19.
Tipps, Robert E. Rotary abrasive wheel wetting attachment and abrasive pickup. 3,444,654, 5-20-69, Cl. 51-267.
Tipton, Donald L., to General Motors Corporation. Method and apparatus for generating electric power. 3,449,601, 6-10-69, Cl. 310-11.
Tipton, Donald L., to General Motors Corporation. Method and apparatus for liquid MHD generator systems. 3,480,804, 11-25-69, Cl. 310-11.
Tipton, James Phillips: *See*—
Logepwell, Donald Lyle; and Tipton, James Phillips,3,486,005.
Tipton, Joe D., to Gardner-Denver Company. Telescoping drilling device. 3,447,652, 6-3-69, Cl. 192-85.
Tiraboschi, Oreste: *See*—
Tiraboschi, Renato; and Tiraboschi, Oreste,3,446,505.
Tiraboschi, Renato; and Tiraboschi, Oreste. Record playing device. 3,446,505, 5-27-69, Cl. 274-1.
Tirado, Adalberto; Guevara, Mario; and Gonzalez, Virgilio, to Fabricas de Papel Loreto y Pena Pobre S.A. Method of digesting wood by the kraft process utilizing organic sulfides. 3,451,889, 6-24-69, Cl. 162-72.
Tiraspolsky, Wladimir, to Institut Francais du Petrole, des Carburants et Lubrifiants. Drilling device. 3,455,402, 7-15-69, Cl. 175-327.
Tiraspolsky, Wladimir; and Rouviere, Roger, to Institut Francais du Petrole des Carburants et Lubrifiants. Ball thrust bearing for driving shaft subjected to axial thrust, particularly for turbodrill shaft. 3,449,030, 6-10-69, Cl. 308-230.
Tiros Plastics Corporation: *See*—
Bayer, Christian, 3,426,890.
Tirouflet, Jean: *See*—
Fournari, Pierre; Tirouflet, Jean; and Boichot, Claude,3,468,897.
Tischbirek, Gunther: *See*—
Kasperl, Herbert; Tischbirek, Gunther; and Worms, Karl-Heinz,3,463,737.
Tischler, Edward J., to Union Tank Car Company. Timer. 3,448,625, 6-10-69, Cl. 74-3.5
Tischler, Henry J.: *See*—
Gamelcy, Lionel; and Tischler, Henry J.,3,428,975.
Tischler, Richard F.; and: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,447,071.
Tischuk, Walter, to Robertson, H. H., Company. Building outer wall structure. 3,438,168, 4-15-69, Cl. 52--478
Tisdale Company, Inc.: *See*—
Tisdale, Norman F.; and Tisdale, Rowland A., 3,435,992.
Tisdale, Norman E., Jr., to Susquehanna Corporation, The. Hot top liner. 3,467,173, 9-16-69, Cl. 164-339.
Tisdale, Norman F.; and Tisdale, Rowland A., to Tisdale Company, Inc. Pouring nozzle for continuous casting liquid metal or ordinary steel. 3,435,992, 4-1-69, Cl. 222-146.
Tisdale, Norman F.; and Tisdale, Rowland A. Production of clean fine grain steels. 3,459,540, 8-5-69, Cl. 75-129.
Tisdale, Rowland A.: *See*—
Tisdale, Norman F.; and Tisdale, Rowland A.,3,435,992.
Tisdale, Norman F.; and Tisdale, Rowland A.,3,459,540.
Tishler, Richard. Water control device. 3,465,771, 9-9-69, Cl. 137-78.
Tiskus, John R.; and Vey, Regis A., to United States Steel Corporation. On-off servo system with dead zone compensation and magnetic servo amplifiers. 3,441,818, 4-29-69, Cl. 318-18.
Tiss, Irving David. Garment hanger device. 3,428,229, 2-18-69, Cl. 223-87.
Tisselli, Eugenio: *See*—
Mariani, Brunello; Guizzi, Alberto; and Tisselli, Eugenio,3,476,564.
Tisserand, Henri Andre; and Saint Quentin, Roger, to Inventions Finance Corporation. Inviolable container. 3,438,535, 4-15-69, Cl. 220-27.
Tisserant, Bernard; and Wuyts, Julien. Undulator for transforming a direct current into a unidirectional pulsed current and applications thereof. 3,436,632, 4-1-69, Cl. 318-138.
Tissot Dupont, Lucien Francois Simon, to Du Pont, S. T., (Societe Anonyme). Self-contained cartridge housing a porous element for use in gas lighters. 3,452,522, 7-1-69, Cl. 55-491.
Tissot Dupont, Lucien Francois Simon, to Du Pont, S. T. (Societe Anonyme). Mechanism for gas lighters. 3,453,065, 7-1-69, Cl. 431-153.
Titan Eisenwarenfabrik G.m.b.H.: *See*—
Timmerbeil, Hans Jochen; and Timmerbeil, Hugo, Jr., 3,457,599.
Timmerbeil, Harald, 3,426,392.
Titan Eisewarenfabrik GmbH: *See*—
Amann, Fritz, 3,453,410.
Titangesellschaft m.b.H.: *See*—
Kulling, Achim; Steinbach, Hans; and Thumm, Hans, 3,457,038.
Steinhausen, Helmut, 3,486,847.
Tillmann, Peter; Kulling, Achim; and Hitzemann, Gerhard, 3,479,148.
Titanium Metals Corporation of America: *See*—
Cox, Howard D.; and Rosenberg, Harry W., 3,457,068.
Day, Dwayne L.; and Haskell, Albert A., Jr., 3,481,799.
Hunter, Donald B., 3,482,968.
Snow, Karl S., 3,429,564.
Titchenal, Oliver R. Form, fill and seal packaging machine. 3,481,110, 12-2-69, Cl. 53-183.
Titchenal, Oliver R.; Jark, Fred; Coombes, William S.; and Ruf, Walter, to St. Regis Paper Company. Package. 3,465,876, 9-9-69, Cl. 206-65.
Titcomb, Francis R.: *See*—
Austin, Larry E.; and Titcomb, Francis R.,3,478,925.
Titmas, John E., Jr., to American Chain & Cable Company, Inc., mesne. Case diverter. 3,456,773, 7-22-69, Cl. 198-20.
Titt, Georg. Device for transmitting rotary movement and method for manufacturing the same. 3,430,458, 3-4-69, Cl. 64-15.
Titterton, Ivan William, to Rolls-Royce Limited. Electrode for use in electrochemical machining. 3,455,812, 7-15-69, Cl. 204-284.
Titterud, Curtiss W.: *See*—
Merritt, Edward E.; Titterud, Curtiss W.; Peterson, Stanley E.; and Bulow, Arthur J.,3,478,390.
Tittmann, Frederick R.; and Goldin, Michael M., to Union Carbide Corporation. Polymerization process. 3,472,795, 10-14-69, Cl. 260-2.
Tittmann, Frederick R.; Goldin, Michael M.; and Loeb, William E., to Union Carbide Corporation. Fibrous materials coated with linear p-xylylene polymers. 3,429,739, 2-25-69, Cl. 117-106.
Titus, Charles H.: *See*—
Cox, Vernon L.; and Titus, Charles H.,3,471,632.
Titus, Charles W.: *See*—
Watson, Olin L.; and Titus, Charles W.,3,481,355.
Titus, Hans-Joachim. Method and apparatus for discharging solid material from a centrifuge. 3,474,905, 10-28-69, Cl. 210-78.
Titus, Jack B. Trigonometric aeronautical computer, trac. 3,471,084, 10-7-69, Cl. 235-78.
Titus Manufacturing Corporation: *See*—
Averill, Eugene F., 3,440,947.
De Hart, Marvin L.; and Straub, Harold E., 3,468,239.
Titus, Paul E., to Shell Oil Company. Recovering solids from oil slurries. 3,481,713, 12-2-69, Cl. 23-300.
Titus, Paul E.: *See*—
Meyer, Frank L.; Reiss, Lewis Philip; and Titus, Paul E.,3,443,837.
Titzel Engineering, Inc.: *See*—
Gregord, Thomas, 3,454,133.
Kania, Robert C.; and Gregord, Thomas, 3,446,316.

Titzenthaler, Eckart, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ethylene oxide. 3,461,140, 8-12-69, Cl. 260-348.5

Tiura, George O., to Tiura Manufacturer & Sales. Bean harvester. 3,479,807, 11-25-69, Cl. 56-400.

Tiura Manufacturer & Sales: *See—*
Tiura, George O., 3,479,807.

Tizon Chemical Corporation: *See—*
Lachapelle, Raymond L., 3,429,080.

Tjaderklou, Sven Anders Torbjorn, to Solanum Aktiebolag. Appartus for storing and seasoning of raw root vegetables, specially potatoes. 3,461,792, 8-19-69, Cl. 99-271.

T'jampens, Germin Remi:*See—*
Meijer, Riksterus Auguste Johannes Maria; and T'jampens, Germin Remi,3,484,146.

Tjarksen, Donald E.: *See—*
Ryberg, John G.; and Tjarksen, Donald E.,3,483,700.

Tjonneland, Knut: *See—*
Holtermann, Hugo; Haugen, Leif Gunnar; Thorsdalen, Nils; Tjonneland, Knut; Wille, Knut; and Koutroulos, Jean,3,476,802.

Tkach, Joseph. Controlled volume degasification of liquid. 3,460,319, 8-12-69, Cl. 55-19.

Tkach, Vasily Denisovich: *See—*
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.

Tkachev, Vladimir Vasilievich; Oganesov, Vladimir Nikitovich; and Slanevsky, Anatoly Vasilievich. Sorting armored linings for tube mills. 3,467,321, 9-16-69, Cl. 241-183.

Tktronix, Inc.: *See—*
Moriyasu, Hiro, 3,441,863.

TLD, Inc.: *See—*
Hafler, David, 3,441,864.
Hafler, David, 3,449,681.

Tlucko, Josef: *See—*
Brychta, Ondrej; Tlucko, Josef; Kolik, Ondrej; and Capla, Miroslav,3,465,752.

TMC Corporation: *See—*
Weir, Stanley M., 3,442,403.

T.M.M. (Research) Limited: *See—*
Greenwood, Robert; and Howarth, Walter, 3,440,690.
Greenwood, Robert; Harrison, Donald Britton; and Morris, Joseph Robert, 3,473,848.
Harrison, Donald Britton; Morris, Joseph Robert; and Singleton, Frank, 3,450,439.
Makeham, Sam Robert; Benyon, John; and Shepherd, John Michael, 3,455,095.
Princz, Ferdinand; and Scott, William, 3,426,609.
Shepherd, John M.; Copple, Christopher J.; and Tattersall, David, 3,481,129.
Woodhead, Robert Henry, 3,453,693.
Wright, Thomas Henry; and Judson, Brian, 3,481,004.

T.N.E., Incorporated: *See—*
Aselman, Edward C., Jr., 3,435,289.

Toa Gosei Chemical Industry Co., Ltd.: *See—*
Ogasawara, Takahisa; Tatemichi, Hidemaro; Ito, Hiroo; and Suzuki, Shigenari, 3,458,568.

Toa Noyaku Kabushiki Kaisha: *See—*
Seto, Ichiro; Tanaka, Humikazu; Ishii, Yoshio; Nagae, Yuji; and Kitakata, Setsuo, 3,449,405.

Toa Valve Co., Ltd.: *See—*
Hagihara, Noboru, 3,433,250.

Toal, James J.: *See—*
Ditlinger, Richard J.; and Toal, James J.,3,475,988.

Tobacco Research and Development Institute Ltd.: *See—*
Rupert, John P., 3,426,885.

Toback, Alex S.: *See—*
Gorman, Jeremy W.; and Toback, Alex S.,3,425,988.

Tobari, Masakatsu: *See—*
Tetsuo, Tokita; Morio, Minoru; and Tobari, Masakatsu,3,462,638.

Tobari, Sakujiro, to Cragtan Industries, Inc. Music making toy. 3,448,649, 6-10-69, Cl. 84-102.

Tobe Deutschmann Laboratories, Inc.: *See—*
Blank, Edward, 3,461,363.

Tobey, Alton E. Air-cooled tire abrading rasp. 3,420,010, 1-7-69, Cl. 51-356.

Tobey, Frederic Samuel, to Brady, W. H., Co. Self-contained shield for radioactive generator battery charger. 3,427,524, 2-11-69, Cl. 320-61.

Tobey, Frederic Samuel; and White, Roby Byron, to Brady, W. H., Co. Position control method and apparatus. 3,484,614, 12-16-69, Cl. 250-204.

Tobey, Hubert E., to Continental Baking Company. Cake de-panner. 3,451,570, 6-24-69, Cl. 214-311.

Tobey, Richard, to Ampex Corporation. Tape transport system including dead-band amplifier means. 3,450,973, 6-17-69, Cl. 318-307.

Tobey, Richard, to Dartex, division of Tally Corporation. Magnetic tape transport using radiation sensitive means to signal buffer storage arm position. 3,470,382, 9-30-69, Cl. 250-219.

Tobey, Richard, to Tally Corporation. Tape transport. 3,478,985, 11-18-69, Cl. 242-55.

Tobey, Stephen W., to Dow Chemical Company, The. Extraction apparatus. 3,441,481, 4-29-69, Cl. 202-169.

Tobia, Vincent, to Pirelli General Cable Works Limited. Apparatus for deforming tubing. 3,451,242, 6-24-69, Cl. 72-77.

Tobias, George S., to Pittsburgh Activated Carbon Company. Bonded carbon article. 3,474,600, 10-28-69, Cl. 55-524.

Tobias, Irwin: *See—*
Polanyi, Thomas G.; and Tobias, Irwin,3,453,557.

Tobias, Philip E. Controlled depth cutter. 3,448,519, 6-10-69, Cl. 30-293.

Tobias, Samuel F., Jr., to North American Rockwell Corporation, mesne. Pattern mechanism for knitting machines. 3,485,064, 12-23-69, Cl. 66-50.

Tobie, Roger S.: *See—*
Malby, Howard S.; Recknagel, Fred M.; and Tobie, Roger S.,3,437,016.

Tobin, Carlton D.: *See—*
Boucher, Raymond Marcel Gut; and Tobin, Carlton D.,3,469,785.

Tobin, Henry G., Jr.; and Van Scoyoc, James N., to United Engineering and Foundry Company, mesne. Acoustic flatnes measurement device. 3,433,058, 3-18-69, Cl. 73-67.7

Tobin, Marvin: *See—*
Dumartin, Serge; Oksengorn, Boris; Tobin, Marvin; and Vodar, Boris,3,469,920.

Tobin, Richard J., deceased (by Tobin, Betty P., executrix); Barkman, Aaron; and Port, Joe E., to Sherwin-Williams Company, The. Apparatus and process for batch esterification of polyhydric alcohols with polycarboxylic acids or intermediate esterification products thereof. 3,471,424, 10-7-69, Cl. 260-22.

Tobler, Walter: *See—*
Stillhard, Bruno; and Tobler, Walter,3,433,256.

Tobolov, Petr Nikitich; Kriger, Jury Arkadievich; Litvinov, Ivan Petrovich; Bashirov, Ismagil Gareevich; and Fildshtein, Mikhail Viktorovich. Plant for conditioning free-flowing hardening mixture. 3,451,659, 6-24-69, Cl. 259-161.

Toby, Arthur G. Vacuum operated reciprocating motor. 3,481,250, 12-2-69, Cl. 91-232.

Toby, Dennis E., to Addressograph-Multigraph Corporation. Automatic copying machine. 3,484,168, 12-16-69, Cl. 355-106.

Toby, Fred L., to United States of America, Atomic Energy Commission. Spiral scanning system employing rotary and reciprocating mirrors for automatic data measuring projectors. 3,421,010, 1-7-69, Cl. 250-219.

Tocanne, Jean Louis, to Societe de Prospection Electrique Schlumberger S.A. Fluid analyzer probe including thin pliable metal electrode. 3,437,924, 4-8-69, Cl. 324-61.

Tocatlian, Jacques J., to Monsanto Company. Dyed polyvinyl acetal sheet containing an alkylat- ed hydroxy phenyl benzotriazole stabilizer. 3,441,361, 4-29-69, Cl. 8-4.

Toce, Charles A.: *See—*
Sykes, Richard W.; Sykes, Jessie T.; and Toce, Charles A.,3,457,803.

Tochiori, Yuji. Mortar applicator for building block masonry. 3,451,106, 6-24-69, Cl. 25-1.

Tocker, Stanley, to Du Pont de Nemours, E. I., and Company. Polyamide-acids and polyimides from substituted pyromellitic dianhydride. 3,437,635, 4-8-69, Cl. 260-47.

Toda, Mitsuhiro: *See—*
Matsumura, Yoichi; Ogawa, Mitsuo; and Toda, Mitsuhiro,3,434,712.

Toda, Namihiro: *See—*
Okazaki, Masao; Mori, Atsuo; Toda, Namihiro; and Hara, Isao,3,487,128.

Toda, Tadahide; Gotoh, Kenji; and Obata, Haruyuki, to Toyota Jidosha Kogyo Kabushiki Kaisha. Air-fuel ratio control device for internal combustion engines. 3,450,115, 6-17-69, Cl. 123-119.

Toda, Tadahide; Hanaoka, Masanori; and Yamaguchi, Taro, to Nippon Denso Company, Limited, and Toyota Motor Co., Ltd. Air escape valve for controlling air compressor output pressure. 3,473,626, 10-21-69, Cl. 181-37.

Toda, Tadahide; Yamada, Mitsumasa; and Obata, Haruyuki, to Toyota Jidosha Kogyo Kabushiki Kaisha. Flow control valve for blow-by gas. 3,439,703, 4-22-69, Cl. 137-480.

Toda, Toshimasa: *See—*
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,448,074.
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,232.

Todco Chemical Company, Inc.: *See—*
Sedlak, Rudolf P., 3,459,600.
Todd, Chester F.: *See—*
Ward, George C.; Todd, Chester F.; Proctor, Dale D.; and Cofer, Daniel B.,3,469,620.
Todd, David B., to Baker Perkins, Inc., mesne. Multistage vapor-liquid contactor. 3,486,743, 12-30-69, Cl. 261-83.
Todd, Elmer H.: *See—*
Dalenberg, John F.; Todd, Elmer H.; and Carpenter, John W.,3,465,971.
Todd, Frederick H., to United States of America, Navy. Captured air bubble (CAB) ground effect machine. 3,458,007, 7-29-69, Cl. 180-128.
Todd, Gordon; and Shields, Edward Francis, to Whessoe Limited. Storage tanks. 3,448,886, 6-10-69, Cl. 220-9.
Todd, Herbert E.: *See—*
Shinn, Byron H.; and Todd, Herbert E.,3,432,587.
Todd, Hoyt H.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,472,202.
Todd, John C., to Sinclair Research, Inc. Method and apparatus for heating a subsurface formation. 3,420,300, 1-7-69, Cl. 166-38.
Todd, Lamar S. Process for producing zinc and related materials. 3,463,630, 8-26-69, Cl. 75-23.
Todd, Leonard M. Telephone answering device. 3,445,600, 5-20-69, Cl. 179-6.
Todd, Marion N., Jr., to Hughes Aircraft Company. Optical system for determined area radiation scanning. 3,443,853, 5-13-69, Cl. 350-55.
Todd, Paul H., Jr., to Kalamazoo Spice Extraction Company. Water-dispersible hop flavors for malt beverages and the like. 3,486,906, 12-30-69, Cl. 99-50.5
Todd, Paul H., Jr.; and Worden Leonard R., to Kalamazoo Spice Extraction Company. Increasing the utilization of hops and improving flavor control of malt beverages and the like. 3,451,821, 6-24-69, Cl. 99-50.5
Todd, Peter Frank: *See—*
O'Brien, Stephen; Janes, William Henry; Taylor, Keith Andrew; and Todd, Peter Frank,3,436,383.
Todd, Philip E., to Safeway Stores, Incorporated. Method and apparatus for concentrating liquid- solids mixtures. 3,486,548, 12-30-69, Cl. 159-5.
Todd, Robert R., to Case, J. I., Company. Blower spout mechanism. 3,464,471, 9-2-69, Cl. 146-107.
Todd, William H.: *See—*
Rushmere, John D.; and Todd, William H.,3,454,475.
Todd, William L.; and Ferguson, Bobby L., to Rector Well Equipment Company, Inc. Casing hanger and seal assembly. 3,437,356, 4-8-69, Cl. 285-3.
Toder, Ellis I. Drapery system. 3,460,603, 8-12-69, Cl. 160-345.
Todesca, Flaminio: *See—*
Feldkirchner, Harlan L.; Linden, Henry R.; Khan, Amanullah R.; and Todesca, Flaminio,3,433,610.
Todman, Howard F.; and Cooper, Edward T., to Todman-Cooper Company. Container. 3,439,797, 4-22-69, Cl. 206-41.2
Todman-Cooper Company: *See—*
Todman, Howard F.; and Cooper, Edward T., 3,439,797.
Todo, Nobuyoshi: *See—*
Fujiwara, Goro; Oda, Takeshi; Todo, Nobuyoshi; and Yajima, Yukio,3,436,342.
Todo Seisakusho Ltd.: *See—*
Kubo, Koichiro; Omori, Fumitaka; and Murai, Munchisa, 3,463,528.
Todt, Joachim H. Magnetic transducing head for photocopy machine. 3,487,391, 12-30-69, Cl. 340-174.1
Toedtman, John A., to ITT Blackburn Corporation. Electrical connector manifold. 3,480,905, 11-25-69, Cl. 339-213.
Toei, Ryozo: *See—*
Mogi, Shichizaemon; Toei, Ryozo; and Yamaguchi, Masaichiro,3,456,575.
Toekes, Barna: *See—*
Carrock, Frederick E.; Toekes, Barna; and Doak, Kenneth W.,3,428,712.
Toelke, Lester W.; and Hanson, Irven E., to Encon Manufacturing Company. Vortex tube arrangement. 3,461,676, 8-19-69, Cl. 62-5.
Toelke, Lester W.; and Walling, Walter W., to Schlumberger Technology Corporation. Apparatus for welding internally-coated tubular members. 3,453,004, 7-1-69, Cl. 285-55.
Toensing, James W., to Buckbee-Mears Company, mesne. Web cutting machine. 3,436,996, 4-8-69, Cl. 83-87.
Toesca, Rene A. M., to Energy Transformation Corporation. Combustion optimizing devices and methods. 3,467,072, 9-16-69, Cl. 123-141.
Toet, Dick: *See—*
Barnard, Jan Hendrik; and Toet, Dick,3,439,911.
Toet, Hans Jacques; Maessen, Jan Theodor Marie Francois; and van der Linde, Leendert Maarten, to N.V. Chemische Fabriek Naarden. Perfume composition containing styrene derivatives. 3,461,085, 8-12-69, Cl. 252-522.
Tofflemire, Benjamin F. Traction instrument for dental matrix band. 3,436,831, 4-8-69, Cl. 32-63.
Tofflemire, Benjamin F. Closed-loop dental matrix band with combined keeper and traction block. 3,482,314, 12-9-69, Cl. 32-63.
Tofflemire, Benjamin F. Traction instrument for closed-loop dental matrix band. 3,482,315, 12-9-69, Cl. 32-63.
Toffler, Jerome E., to Hughes Aircraft Company. Delay equalizer circuit wherein the output signal phase is dependent upon the input signal frequency. 3,446,996, 5-27-69, Cl. 307-233.
Toffolon, Louis: *See—*
Toffolon, Norman R., 3,462,025.
Toffolon, Norman R.: *See—*
Toffolon, Norman R., 3,462,025.
Toffolon, Norman R., to Toffolon, Norman R., and Toffolon, Louis, mesne. Apparatus for erecting prefabricated panels and the like. 3,462,025, 8-19-69, Cl. 214-1.
Togel, Kurt: *See—*
Goerke, Rolf; Bisch, Helmut; Togel, Kurt; and Speck, Werner,3,478,207.
Togino, Kazuto, to Fujitsu Limited. Optical scale-line detecting system. 3,453,051, 7-1-69, Cl. 356-170.
Tognazza Bruno G.: *See—*
Rado, Antonio; and Tognazza Bruno G.,3,476,326.
Tognella, Ugo R.: *See—*
Badey, Paul E.; Oppel, John A.; and Tognella, Ugo R.,3,482,069.
Tognoli, Luigi: *See—*
Amici, Alba Maria; Minghetti, Anacleto; Scotti, Tullio; Spalla, Celestino; and Tognoli, Luigi,3,485,722.
Toho Aen Kabushiki Kaisha: *See—*
Aikawa, Michinosuke; Kojima, Mirei; and Takahashi, Chushichi, 3,430,289.
Toho Beslon Kabushiki Kaisha: *See—*
Fujii, Saburo; and Yoshida, Masatoshi, 3,479,312.
Yamada, Kozo; Saji, Yasuo; Yamamoto, Ichiro; and Ikegami, Shigeru, 3,485,913.
Tohoku Kyodo Kagakukogyo Kabushiki Kaisha: *See—*
Momotari, Yasumori, 3,479,431.
Tohoku Oki Electric Company: *See—*
Watase, Fumio, 3,462,710.
Tohoku Yakult Seizo Kabushiki Kaisha: *See—*
Yamada, Hirosuke; Shishido, Kyoji; Hoshino, Takao; Kobayashi, Seizaburo; and Sato, Isami, 3,462,412.
Tohyama, Seikichi: *See—*
Matsubara, Kentaro; and Tohyama, Seikichi,3,430,857.
Toifl, Jaroslav, to Vyzkumny ustav matematickych stroju. Apparatus including ferrotransistor switches for minimizing dead zones in a servomechanism. 3,430,118, 2-25-69, Cl. 318-18.
Toifl, Jaroslav; and Martinek, Miloslav, to Vyzkumny ustav matematickych stroju. Digital comparator. 3,439,336, 4-15-69, Cl. 340-146.2
Toinet, Georges Claude. Diaphragm valves. 3,426,999, 2-11-69, Cl. 251-331.
Toischer, Karl Engelbert Ludwig; and Bergmann, Horst Sigurd Max, to Meissner, Josef G.m.b.H. & Co., KG. Halting process in continuous nitration of aromatic hydrocarbons. 3,431,312, 3-4-69, Cl. 260-645.
Toischer, Karl Engelbert Ludwig; and Bergmann, Horst Sigurd Max, to Meissner, Josef, G.m.b.H. & Co. KG. Apparatus for the staged nitration of aromatic hydrocarbons. 3,434,802, 3-25-69, Cl. 23-260.
Tojeiro, John M.: *See—*
Bothwell, Peter W.; and Tojeiro, John M.,3,447,163.
Tojima, Shoji: *See—*
Takizawa, Yu; Ikeda, Minoru; and Tojima, Shoji,3,474,520.
Tokai Loom Works, Ltd.: *See—*
Itoh, Kiyoshi, 3,435,486.
Nakako, Osamu, 3,433,272.
Tokei Kabushiki Kaisha: *See—*
Tanaka, Kazuo; Yoshida, Hirohiko; Kato, Yoshiaki; and Ueda, Hiromi, 3,462,939.
Toki, Hisashi; and Agatsuma, Takashi, to Hitachi, Ltd. Method of making a semiconductor device. 3,479,736, 11-25-69, Cl. 29-577.
Tokimatsu, Kenji; and Yamashita, Hachiro, to Shikoku Kasei Kogyo Company Limited. Apparatus for producing cellulose derivatives and the like. 3,457,047, 7-22-69, Cl. 23-260.
Tokita, Tetsuo; Morio, Minoru; and Asano, Ryozo, to Sony Corporation. Safely adjustable convergence deflection circuit for a single-gun, plural-beam type color picture tube. 3,452,240, 6-24-69, Cl. 315-13.
Tokiura, Shohei; Ishida, Hideo; Sasaki, Yoshikazu; and Yamamoto, Tatsuo, to Ube Industries, Ltd. Process for the anionic polymerization of lactams to polyamides. 3,454,537, 7-8-69, Cl. 260-78.
Tokiura, Shohei: *See—*
Oka, Katsuaki; Tokiura, Shohei; Yamamoto, Tatsuo; Sasaki, Yoshikazu; and Ishida, Hideo,3,455,885.
Toko Kabushiki Kaisha: *See—*
Maeda, Hisao; and Matsushita, Akira, 3,425,042.
Maeda, Hisao; and Matsushita, Akira, 3,449,732.

Matsushita, Akira; Sakuma, Takashi; and Sekiya, Mitsuo, 3,441,916.
Matsushita, Akira, 3,451,793.
Miyawaki, Hiroshi; and Taniguchi, Kanazu, 3,458,650.
Nakamura, Katsuro, 3,435,439.
Nakamura, Katsuro, 3,458,724.
Nakamura, Katsuro; and Watanabe, Shigetoshi, 3,478,337.

Tokoli, Emery G., to Minnesota Mining and Manufacturing Company. Fluorocarbon polyamines. 3,458,571, 7-29-69, Cl. 260-556.

Tokolics, Joseph; Hughes, Gordon A.; and Smith, Herchel, to American Home Products Corporation. N-substituted 2,3,4,5-tetrahydro-1H-3-benzazepines. 3,483,185, 12-9-69, Cl. 260-239.

Tokoro, Yoh: *See—*
Tanaka, Katsunobu; Kimura, Kazuo; Inuzuka, Keiichi; and Tokoro, Yoh,3,486,980.

Tokumoto, Shin-Ichi; and Tanaka, Eiji. Electrolytic photographic process and its material. 3,425,916, 2-4-69, Cl. 204-18.

Tokunaga, Katsuyoshi: *See—*
Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Masao; Manabe, Mitsuyoshi; and Kondo, Shigekatsu,3,438,868.
Shima, Takesaburo; Sawaki, Yoshitsugu; Tokunaga, Katsuyoshi; Sada, Maszo; and Takimoto, Tetuji,3,433,840.

Tokura, Susumu: *See—*
Matsui, Masao; and Tokura, Susumu,3,425,107.
Matsui, Masao; and Tokura, Susumu,3,471,605.

Tokushige, Akira: *See—*
Ishida, Shin'Ichi; Kajihara, Akira; Tokushige, Akira; Ohki, Hayashi; and Sato, Kunio,3,471,998.

Tokuyama, Kanji: *See—*
Goshima, Kazuaki; and Tokuyama, Kanji,3,451,993.
Suminoto, Shinzaburo; Tokuyama, Kanji; Fujimoto, Nanabu; and Maeda, Takashi,3,455,925.

Tokuyama Soda Kabushiki Kaisha: *See—*
Mizutani, Yukio, 3,423,481.
Mizutani, Yukio; and Ihara, Hirofumi, 3,450,777.

Tokuyama, Takashi; and Uchara, Keijiro, to Hitachi, Ltd. Surface treatment of semiconductor device. 3,445,280, 5-20-69, Cl. 117-215.

Tokuyama, Takashi; and Uehara, Keijiro, to Kabushiki Kaisha Hitachi Seisakusho. Surface treatment for semiconductor devices. 3,447,237, 6-3-69, Cl. 29-590.

Tokuzumi, Tadaichi: *See—*
Sasaki, Juntaro; Senoue, Toshio; and Tokuzumi, Tadaichi,3,445,443.
Sasaki, Juntaro; Tokuzumi, Tadaichi; and Senoue, Toshio,3,450,682.
Tanaka, Tsutomu; Tokuzumi, Tadaichi; and Fujimura, Hiroshi,3,449,309.

Tokyo Boseki Kabushiki Kaisha: *See—*
Ohsaki, Iwao; Fukui, Kazuyoshi; and Kitamura, Shinzo, 3,459,386.

Tokyo Denki Kagaku Kogyo Kabushiki Kaisha: *See—*
Matsushima, Mitsuo; and Ogawa, Shigeaki, 3,457,527.

Tokyo Gas Kabushiki Kaisha: *See—*
Iida, Suetoshi; Marushima, Yoshio; and Hasebe, Nobuyasu, 3,459,495.

Tokyo Gihatsu Seikei Company Limited: *See—*
Nakayama, Taisuke; and Nakayama, Shuzo, 3,435,831.

Tokyo International Products, Inc.: *See—*
Baba, Hideshige, 3,432,325.

Tokyo Juki Kogyo Kabushiki Kaisha: *See—*
Aoyama, Noritoshi, 3,463,105.
Hayashi, Shigeki; Shinomiya, Hiroaki; and Kobayashi, Hideaki, 3,482,535.
Hayashi, Shigeki; Sibuya, Tuyosi; Kobayashi, Hideaki; and Takarai, Yutaka, 3,482,538.
Iizuka, Tetsuo, 3,465,702.
Kozuka, Tadasi, 3,440,985.

Tokyo Kagaku Kabushikikaisha: *See—*
Mabuchi, Takaichi, 3,450,908.
Mabuchi, Takaichi, 3,475,635.
Mabuchi, Takaichi, 3,477,173.

Tokyo Koku Keiki Kabushiki Kaisha: *See—*
Hirata, Toshio; Arai, Tashiro; and Yamaguchi, Kazuhide, 3,485,095.

Tokyo Kulsushita Kabushiki Kaisha: *See—*
Kitahara, Naotake; and Yoshida, Teruc, 3,479,841.

Tokyo Rope Manufacturing Co., Ltd.: *See—*
Hara, Hiromasa, 3,468,012.

Tokyo Sanyo Electric Co., Ltd.: *See—*
Nagakura, Akira; Iyoshi, Koichi; Kuribara, Tomio; and Ishiwara, Yoshimi, 3,453,840.

Tokyo Seiko Co., Ltd.: *See—*
Matsumoto, Ryoso; and Watanabe, Hisao, 3,430,492.

Tokyo Seimitsu Sokki Kabushiki Kaisha: *See—*
Chiba, Jiro; Takahashi, Ikuo; and Hasegawa, Yasuhiro, 3,472,281.

Tokyo Shibaura Denki Kabushiki Kaisha: *See—*
Kurokawa, Takaai; and Fukuda, Mitsugu, 3,446,275.
Kurokawa, Takaaki; and Inoue, Noboru, 3,459,290.
Suzuki, Hiroshi; and Ogawa, Tadayuki, 3,446,429.

Tokyo Shibaura Electric Co., Ltd.: *See—*
Hashimoto, Tsunekazu; Yamamoto, Koichi; Someya, Akira; and Iduda, Isunekazu, 3,462,631.
Hori, Yasushi; and Kodama, Hisao, 3,454,731.
Inamiya, Tatsuya; Suzuki, Goro; Tanikawa, Masaru; and Matsui, Takao, 3,466,390.
Ito, Kenichi, 3,427,543.
Iwata, Namio; Takahashi, Koichi; Sato, Isao; and Yanagisawa, Sizuyasu, 3,454,756.
Kawahara, Masao; Ono, Yoshitsugu; and Sakuragi, Johji, 3,427,613.
Kiuchi, Yuji; and Shimizu, Kazuo, 3,466,183.
Kiuchi, Yuji; and Shimizu, Kazuo, 3,486,059.
Koizumi, Hisao, 3,439,203.
Kubo, Moritada, 3,465,247.
Kurihara, Kazunobu; Ichinose, Noboru; Yokoyama, Hirotaka; and Yokoyama, Katsunori, 3,468,799.
Kurihara, Kazunobu; Ichinose, Noboru; Tanno, Yoshikazu; and Yokoyama, Katsunori, 3,472,779.
Kuriyagawa, Mamoru; Yagi, Motoi; and Ohkawa, Motokazu, 3,484,566.
Kuru, Isamu, 3,465,265.
Manaka, Kazuo; and Kurihara, Shinpei, 3,475,240.
Matsuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi, 3,484,604.
Matsuo, Shigetomo; Matsuki, Yosiaki; and Kometya, Katsutoshi, 3,427,373.
Matsuo, Shigetomo; Matsuki, Yosiaki; and Komeya, Katsutoshi, 3,436,179.
Matuda, Tadayoshi; Endo, Shigeo; Makino, Sumio; and Nagai, Katsumi, 3,486,022.
Miyashiro, Shoichi; and Shirouzu, Shunzi, 3,437,867.
Miyashiro, Shoichi, 3,447,023.
Miyashiro, Shoichi; and Shirouzu, Shunji, 3,453,484.
Miyashiro, Shoichi, 3,463,879.
Miyashiro, Shoichi; and Shirouzu, Shunji, 3,484,862.
Miyazaki, Yoshihisa; Kubo, Moritada; Takahashi, Yukiharu; and Uetani, Tatsuya, 3,436,627.
Nagai, Torao; Aiura, Masanobu; Tanaka, Shuzo; and Chiba, Shu, 3,437,777.
Nameda, Naoyoshi; and Yonemoto, Sinji, 3,475,649.
Okamoto, Hiroaki; and Murakami, Yoshio, 3,442,440.
Osawa, Hideo; Sakamoto, Yosio; and Kondo, Masayuki, 3,477,291.
Sakamoto, Toshiro, 3,486,082.
Seki, Yoshitaka; and Muraki, Takeshi, 3,452,232.
Shibata, Shinichi; Mori, Hideo; and Owada, Atsushi, 3,432,732.
Shiga, Koichiro; Yoshida, Motoshige; and Haga, Yoichi, 3,452,203.
Suzuki, Shigetoshi; and Takeda, Eisuke, 3,470,472.
Takaoka, Takashi; and Okabe, Yuji, 3,463,898.
Takeuchi, Koichi; Shikama, Asao; and Takeno, Shozo, 3,426,310.
Tamaru, Keikichi; and Sugawara, Mutuo, 3,452,186.
Tsuchiya, Takeshi; Takahashi, Tetsuo; Yamamoto, Kiyoshi; Yanai, Akito; Takiura, Mikio; and Kano, Toshio, 3,472,205.
Tsukada, Tomomichi; Kabuki, Kimiaki; and Nakazawa, Tokuo, 3,428,595.
Wada, Ichiro, 3,465,585.
Wada, Ichiro, 3,486,376.
Wakatsuki, Masao; Aoki, Toshio; Wakamatsu, Nobuyuki; and Takasu, Shinichiro, 3,436,183.
Wakatsuki, Masao; Aoki, Toshio; and Hayashi, Hiroaki, 3,442,615.
Wakatsuki, Masao; Aoki, Toshio; and Wakamatsu, Nobuyuki, 3,457,043.
Watanabe, Hiroshi; Okuda, Tomoya; and Takamura, Yoshio, 3,428,849.
Yamamoto, Kiyoshi, 3,469,028.
Yokota, Ryosuke; Fuwa, Shigehiko; Kawashima, Shinichi; and Matsuo, Yutaka, 3,456,641.
Yokota, Ryosuke; Nakajima, Saburo; Fukui, Toshio; and Fukuda, Kiyoshi, 3,463,664.
Yokoyama, Katsunori; Ichinose, Noboru; and Tanno, Yoshikazu, 3,468,800.

Tokyo Tanabe Co., Ltd.: *See—*
Miyamoto, Ken; and Takahashi, Yoshiya, 3,458,497.

Tokyo Tokei Seizo Kabushiki Kaisha: *See—*
Konno, Kiyoaki, 3,455,103.
Sasaki, Shigeru, 3,452,537.

Tolan, Homer S., Jr., to Ford Motor Company. Automotive front wheel drive arrangement. 3,428,140, 2-18-69, Cl. 180-42.

Tolan, Peter J.: *See—*
Hyer, Frank S.; and Tolan, Peter J.,3,477,533.

Toland, William C., deceased (by Toland, Edith, executrix); and Krol, Adam T. Production of printing plates and the like. 3,480,435, 11-25-69, Cl. 96-75.

Toland, William G., to Chevron Research Company. Bromide ion promoted oxidation of sulfide- sulfur by lower dialkyl sufoxides. 3,428,671, 2-18-69, Cl. 260-51.3

Tolar, Charles A.: *See—*
Tolar, Homer, 3,460,324.
Tolar, Homer, 25% to Tolar, Charles A. Cane harvesting machine. 3,460,324, 8-12-69, Cl. 56-15.
Tolberg, Ronald S.: *See—*
Jacobson, Robert L.; and Tolberg, Ronald S.,3,425,934.
Tolchinsky, Efim Moiseevich: *See—*
Zablotsky, Igor Evgenievich; Korostelev, Jury Alexandrovich; Lebedev, Anatoly Vasilievich; Sviblov, Lev Borisovich; and Tolchinsky, Efim Moiseevich,3,467,358.
Toledo Scale Corporation: *See—*
Susor, William C., 3,458,692.
Toledo Stamping & Manufacturing Company: *See—*
Foist, Joseph E.; and Matthews, Chester J., 3,473,425.
Toles, Frank R., to Ball, Gordon H., Inc. Drive control for construction machines. 3,454,121, 7-8-69, Cl. 180-6.48
Toles, Frank R., to Ball, Gordon H., Inc. Paving machine. 3,466,990, 9-16-69, Cl. 94-46.
Tolhurst, Frank R.: *See—*
Harris, Albert Edward; and Tolhurst, Frank R.,3,447,942.
Tolk, Harriet: *See—*
Lockwood, Leona; and Tolk, Harriet,3,465,754.
Tolkmith, Henry: *See—*
Budde, Paul B.; and Tolkmith, Henry,3,433,798.
Budde, Paul B.; and Tolkmith, Henry,3,466,369.
Tolkmith, Henry; and Senkbeil, Herman O., to Dow Chemical Company, The. Cyclic dicarboximido-substituted phosphonothioates. 3,450,713, 6-17-69, Cl. 260-326.
Tolle, Charles I.; and Estess, Raymond M. Cathode structure for electrolytic apparatus. 3,458,425, 7-29-69, Cl. 204-280.
Tolleson, Leon H.: *See—*
Thomas, Paul M.; Wright, Lawrence W.; Crile, Eugene E.; Tolleson, Leon H.; and Parmer, Jesse N.,3,471,036.
Tolley, Calvert B. Machine for removing meat from parts of a crab. 3,441,981, 5-6-69, Cl. 17-71.
Tolley, Gary E., to Brown Auto Stabilizer Co., mesne. Vehicle stabilizer. 3,438,648, 4-15-69, Cl. 280-150.
Tolley, Leslie, to Lucas, Joseph, (Industries) Limited. Ignition coils. 3,437,966, 4-8-69, Cl. 336-90.
Tollin, Charles L.: *See—*
Denning, Richard; and Tollin, Charles L.,3,465,209.
Tolliver, Albert C., to Engelhard Minerals & Chemicals Corporation. Pellet dispenser for flat circular pellets. 3,467,277, 9-16-69, Cl. 221-264.
Tolliver, Donald L., to Motorola, Inc. Semiconductor device stabilization. 3,476,619, 11-4-69, Cl. 148-187.
Tolliver, Peter M., 1/2 to Genca, Samuel R. Staple remover. 3,484,080, 12-16-69, Cl. 254-28.
Tolmachev, Anatoly Filippovich: *See—*
Perelman, Simon Meerovich; Prager, Isaak Aronovich; Tolmachev, Anatoly Filippovich; Klebanov, David Lvovich; and Gastev, Jury Alexandrovich,3,444,376.
Tolman, Charles H., to Owens-Illinois, Inc. Package for and method of shipping comestibles. 3,424,595, 1-28-69, Cl. 99-171.
Tolman, Charles H., to Sperry Rand Corporation. Magnetoresistive thin film gray to binary code converter. 3,436,755, 4-1-69, Cl. 340-347.
Tolman, Edward M.: *See—*
Olsen, Karl M.; Smith, David H.; Stockbridge, Christopher D. G.; and Tolman, Edward M.,3,425,043.
Smith, James L.; and Tolman, Edward M.,3,471,836.
Tolmie, Robert J., to Sperry Rand Corporation. Electromagnetic apparatus. 3,440,464, 4-22-69, Cl. 310-154.
Tolnai, Julius. Carburetor. 3,439,903, 4-22-69, Cl. 261-44.
Tolson, Clyde A. Remotely controlled closures. 3,456,387, 7-22-69, Cl. 49-31.
Tolstopyatova, Inga Alexandrovna: *See—*
Vatmakher, Usher Abramovich; Tolstopyatova, Inga Alexandrovna; Shvartz, Yakov Iosifovich; and Pyankova, Tamara Ivanovna,3,467,862.
Tolstyka, Joseph R.: *See—*
Boretti, Napoleon P.; Bratton, Wilson T.; and Tolstyka, Joseph R.,3,477,870.
Tolstykh, Ljudmila Petrovna: *See—*
Ilinskaya, Tamara Nikolaevna; Kuzovkov, Alexandr Dmitrievich; Vichkanova, Serafima Alexandrovna; Rubinchik, Mira Abramovna; Tolstykh, Ljudmila Petrovna; and Aleshkina, Yanina Adolfovna,3,464,975.
Tolutis, Vitautas Balio. Selenium memory cell containing silver up to 2 atomic percent adjacent the rectifying contact. 3,450,967, 6-17-69, Cl. 317-241.
Tolworthy, Robert Theodore, to Rotax Limited. Appartus for connectng together two multi-phase A.C. supplies. 3,466,456, 9-9-69, Cl. 307-87.
Toma, Sam Z.; Mathers, James E.; and Mikus, Felix F., to Sylvania Electric Products Inc. Method for preparing vanadate phosphors. 3,424,692, 1-28-69, Cl. 252-301.4
Tomala, Hans: *See—*
Schroeder, Gerhard Albert Richard; Trenkler, Werner; and Tomala, Hans,3,476,437.
Tomalia, Donald A., to Dow Chemical Company, The. Preparation of N-(2-chloroalkyl)sulfinylamines. 3,449,396, 6-10-69, Cl. 260-453.
Tomalia, Donald A., to Dow Chemical Company, The. Phosphonium zwitterion. 3,471,544, 10-7-69, Cl. 260-457.
Tomalia, Donald A., to Dow Chemical Company, The. Preparation of 1,3-dioxolenium and 1,3- dioxenium salts. 3,480,649, 11-25-69, Cl. 260-340.9
Tomalia, Donald A.: *See—*
Tong, Yu-Lan Chang; Tomalia, Donald A.; and Sheetz, David P.,3,454,597.
Toman, Donald J., to Singer-General Precision, Inc. Multiple-beam guidance means for aircraft approach and landing. 3,487,411, 12-30-69, Cl. 343-108.
Toman, John W.; and Iadarola, Michael L., to United States of America, Army. Packing box. 3,465,909, 9-9-69, Cl. 217-5.
Tomanek, Martha: *See—*
Arneth, Reinhold; and Tomanek, Martha,3,458,310.
Tomany, James P., to Universal Oil Products Company. Method for removing chlorine and entrained aluminum chloride particles from a waste gas stream. 3,445,182, 5-20-69, Cl. 23-2.
Tomaro, Patrick M., Jr., to Remco Industries, Inc. Wheeled toy novelty. 3,462,880, 8-26-69, Cl. 46-247.
Tomaro, Patrick M., to Remco Industries, Inc. Sound-controlled toys having a time delay motor circuit. 3,458,950, 8-5-69, Cl. 46-243.
Tomasino, Charles; and Lake, Gerard K., to Radiation Research Corporation, mesne. Process for making tires by exposure to an ionized gas and treatment with resorcinol-formaldehyde/latex composition and the product. 3,477,902, 11-11-69, Cl. 161-241.
Tomasulo, Robert M.: *See—*
Anderson, David W.; Sparacio, Francis J.; and Tomasulo, Robert M.,3,477,063.
Tomasulo, Robert M.; Anderson, David W.; and Powers, Don M., to International Business Machines Corporation. Execution unit with a common operand and result bussing system. 3,462,744, 8-19-69, Cl. 340-172.5
Tomaszewski, Carlos A.; and Scarlett, Robert L., to Wyle Laboratories. Deflection circuits. 3,479,552, 11-18-69, Cl. 315-18.
Tomaszewski, Thaddeus W.: *See—*
Brown, Henry; and Tomaszewski, Thaddeus W.,3,471,271.
Tomba, Charles P.: *See—*
Neros, Clifford A.; and Tomba, Charles P.,3,429,844.
Neros, Clifford A.; and Tomba, Charles P.,3,454,517.
Tombaugh, Roy W., to General Electric Company. Metal extrusion method. 3,440,853, 4-29-69, Cl. 72-253.
Tomboulian, Roger A.: *See—*
Slutsky, Simon; and Tomboulian, Roger A.,3,442,115.
Tombs, Nigel C., to Sperry Rand Corporation. Oxygenated silicon nitride semiconductor devices and silane method for making same. 3,422,321, 1-14-69, Cl. 317-235.
Tomcavage, Edward J. Transmission line thermal equalizer. 3,441,879, 4-29-69, Cl. 333-28.
Tomcik, Daniel J., to Electro-Voice, Incorporated, mesne. Electrical woodwind musical instrument having electronically produced sounds for accompaniment. 3,429,976, 2-25-69, Cl. 84-1.12
Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M., to American Cyanamid Company. Substituted piperidines. 3,468,892, 9-23-69, Cl. 260-293.
Tomcufcik, Andrew S.; Fabio, Paul F.; and Hoffman, Arlene M., to American Cyanamid Company. 1-Substituted-aminoloweralkyl-4-substituted- phenyl-piperidines. 3,481,935, 12-2-69, Cl. 260-293.
Tomcufcik, Andrew Stephen; Hoffman, Arlene May; and Fabio, Paul Frank, to American Cyanamid Company. Substituted 2-(1,3,4-thiadiazol-2-yl)-4(5)- nitroimidazoles. 3,452,034, 6-24-69, Cl. 260-302.
Tomcufcik, Andrew Stephen: *See—*
Seeger, Doris Ruth; and Tomcufcik, Andrew Stephen,3,446,812.
Tomelleri, Giordano. Device for removing fruit stones and cutting peaches and similar fruits. 3,465,799, 9-9-69, Cl. 146-28.
Tomen, Nicholas J. Trailer hitch assembly. 3,451,695, 6-24-69, Cl. 280-489.
Tomeo, Anthony; Nelson, John Allison; and Hoffmann, Arthur H., to Westinghouse Electric Corporation. Resynchronizing means for brushless synchronous motors. 3,440,509, 4-22-69, Cl. 318-167.
Tomeo, Carl Anthony, Jr.: *See—*
Cagan, Bernard J.; and Tomeo, Carl Anthony, Jr.,3,474,566.
Tomer, Fred S.: *See—*
Gidley, John L.; and Tomer, Fred S.,3,452,818.
Tomer, Lewis P., to Fluid Controls, Inc. Free delivery controlled return valve. 3,433,253, 3-18-69, Cl. 137-493.
Tometsko, Andrew M.: *See—*
Katsoyannis, Panayotis; and Tometsko, Andrew M.,3,420,810.
Tominaga, Sunao: *See—*
Arakawa, Seiji; Tominaga, Sunao; and Terase, Tsuneo,3,437,489.
Tominori, Kiyoshi: *See—*
Kawashima, Masao; Fudemoto, Isao; and Tominori, Kiyoshi,3,483,323.

Tomita, Chikayoshi: *See—*
Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio,3,470,073.
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakuni, Masahiko,3,480,521.

Tomita, Eiichi: *See—*
Nitta, Yoshihiro; Namekata, Masaya; Tomita, Eiichi; and Hirota, Yusaku,3,432,489.

Tomita, Tamaki. Oil temperature control system. 3,480,076, 11-25-69, Cl. 165-27.

Tomita, Tamaki; Shima, Yoshio; and Sugiura, Hiroaki, to Toyoda Koki Kabushiki Kaisha (Toyoda Machine Works Ltd.). Apparatus for automatic program control of a machine tool. 3,474,315, 10-21-69, Cl. 318-162.

Tomita, Tamaki; Wada, Ryuji; and Kodama, Hayashi, to Toyoda Machine Works, Ltd. Fluid bearing with a damping effect. 3,454,311, 7-8-69, Cl. 308-122.

Tomiyama, Eijiro, to White, F. E., Company, Inc. Toy automobile and starting device therefor. 3,471,963, 10-14-69, Cl. 46-243.

Tomiyama, Eijiro. Manually operated sound reproducing device. 3,479,037, 11-18-69, Cl. 274-9.

Tomiyama, Hirofumi. Turret indexing mechanism. 3,440,905, 4-29-69, Cl. 74-822.

Tomiyasu, Kiyo: *See—*
Naydan, Theodore T.; and Tomiyasu, Kiyo,3,432,722.

Tomkinson, Stanley E.: *See—*
Keck, Arthur C.; and Tomkinson, Stanley E.,3,482,128.

Tomkus, Maija R.: *See—*
Palilla, Frank C.; and Tomkus, Maija R.,3,481,884.

Tomlinson, Audie B. Swiveling tool support for earth-working machine. 3,445,016, 5-20-69, Cl. 214-138.

Tomlinson, Charles Lester, to Domtar Limited. Continuous pulping apparatus. 3,441,475, 4-29-69, Cl. 162-237.

Tomlinson, Denver D., to GPE Controls, Inc. Wire retaining method. 3,452,420, 7-1-69, Cl. 29-439.

Tomlinson, Harry M.: *See—*
Bullock, Kenneth R.; and Tomlinson, Harry M.,3,459,877.

Tomlinson Industries, Inc.: *See—*
Chernak, John A., 3,426,798.
Chernak, John A.; and Giese, Elroy J., 3,459,345.

Tomlinson, Lee H., to General Electric Company. Thermal generator and flameholder. 3,457,121, 7-22-69, Cl. 136-208.

Tomlinson, Richard G., to Ohio State University Research Foundation, The. Optical fuse. 3,433,555, 3-18-69, Cl. 350-160.

Tomoda, Toshiyuki: *See—*
Watanabe, Shiro; and Tomoda, Toshiyuki,3,455,982.

Tomoeda, Munemitsu, to Schering Corporation. Hydrazo steroids and method of manufacture. 3,438,974, 4-15-69, Cl. 260-239.5

Tomoji Murata: *See—*
Imai, Kazutami; Tano, Tatsuo; and Noro, Hiroo, 3,433,629.

Tomomatsu, Hideo, to Jefferson Chemical Company, Inc. Catalytic polymerization of cyclic alkylene oxides. 3,422,040, 1-14-69, Cl. 260-2.

Tomomatsu, Hideo, to Jefferson Chemical Company, Inc. Polymerization of alkylene oxides using a binary catalyst system of zirconium tetraisopropoxide and an organometallic compound. 3,436,360, 4-1-69, Cl. 260-2.

Tomomatsu, Hideo, to Jefferson Chemical Company, Inc. Polymerization of alkylene oxides using a binary catalyst system containing an organometallic compound and byric acid. 3,448,064, 6-3-69, Cl. 260-2.

Tomomatsu, Hideo, to Jefferson Chemical Company, Inc. Polymerization of cyclic alkylene oxides with catalyst systems of polymeric aluminum alcoholate and an organometallic. 3,459,685, 8-5-69, Cl. 260-2.

Tomon, Eiichi: *See—*
Hosokawa, Masuo; and Tomon, Eiichi,3,430,924.

Tomono, Haruki, to Fujitsu Limited. Amplitude control circuit for single sideband generator by controlling the gain of a driver stage. 3,469,192, 9-23-69, Cl. 325-137.

Tomota, Miyaji, to Kabushiki Kaisha Yokogawa Denki Seisakusho (Yokogawa Electric Works, Ltd.). Capacitor potentiometer. 3,478,256, 11-11-69, Cl. 321-2.

Tomota, Miyaji; and Saito, Bunjiro, to Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric Works, Ltd.). Driving device for step motors. 3,441,821, 4-29-69, Cl. 318-138.

Tomozawa, Atsusi; and Shiba, Hiroshi, to Nippon Electric Company, Limited. Logical circuit comprising field-effect transistors. 3,471,712, 10-7-69, Cl. 307-205.

Tompkins, Edgar M., to Xerox Corporation. Illumination system. 3,432,232, 3-11-69, Cl. 95-1.7

Tompkins, Edwin H.: *See—*
Kinney, Layton C.; and Tompkins, Edwin H.,3,451,813.

Tompkins, Eugene E.: *See—*
Roediger, Joseph C.; Tompkins, Eugene E.; and Schoenbaum, George H.,3,427,172.

Tompkins, Harold W.: *See—*
Warner, Paul F.; and Tompkins, Harold W.,3,454,651.

Tompkins, William R.: *See—*
Kimball, James L.; Tompkins, William R.; and Ahrens, Harold R.,3,426,145.

Tompson, Clement R., to Zenith Radio Corporation. Automatic radio tuner for blind-tuning to a predetermined frequency. 3,437,936, 4-8-69, Cl. 325-456.

Tompson, Clement R., to Zenith Radio Corporation. Reversible PM synchronous motor with direction control system. 3,462,668, 8-19-69, Cl. 318-174.

Toms, Jay M.: *See—*
De Voe, Harvey B., Jr.; and Toms, Jay M.,3,425,570.

Tomsic, Walter J.: *See—*
Ugo, John W.; and Tomsic, Walter J.,3,460,119.

Tomson, Arthur James: *See—*
Passal, Frank; and Tomson, Arthur James,3,455,794.

Tomura, Teruichi, to Kabushiki Kaisha Hitachi Seisakusho. Circuit arrangement for use in radiation measurements and the like purposes. 3,443,096, 5-6-69, Cl. 250-83.3

Tomura, Teruichi, to Kabushiki Kaisha Hitachi Seisakusho. X-ray monochromator of linear type. 3,445,653, 5-20-69, Cl. 250-51.5

Tomuro, Hiroshi. Apparatus for lowering machine into table. 3,465,695, 9-9-69, Cl. 108-162.

Tonari, Hirohiko; and Hashima, Akio, to Matsushita Electric Industrial Co., Ltd. Combined VHF-UHF tuner. 3,453,896, 7-8-69, Cl. 74-10.

Tone, Frederick F.; Deprez, Robert F.; and Edelman, Robert I., to Eastman Kodak Company. X-ray film package with identification slot. 3,466,440, 9-9-69, Cl. 250-67.

Tone, John W.; Simon, Albert E., Jr.; and Taylor, William D., to Ronson Corporation. Electric hair brush. 3,427,674, 2-18-69, Cl. 15-23.

Tone, Richard N. Golf practice device. 3,423,096, 1-21-69, Cl. 273-195.

Tonelli, Pietro de Pietri; Rossi, Giorgio; and Barontini, Alberto, to Montecatini Edison S.p.A. Fluorinated aromatic esters. 3,436,418, 4-1-69, Cl. 260-469.

Toner, Darell D.: *See—*
Roberts, Charles B.; and Toner, Darell D.,3,444,227.

Toney, Derek J., to Zonal Film (Magnetic Coatings) Limited. Magnetic disk packs. 3,475,741, 10-28-69, Cl. 340-174.1

Toney, Ernest W.: *See—*
Ostroff, Harold H.; and Toney, Ernest W.,3,420,060.

Toney, Henry W.; and Huizenga, Charles B., to American Metal Climax, Inc. Method of shearing heated billets by relative movements of adjacent dies. 3,422,711, 1-21-69, Cl. 83-15.

Toney, Herbert S. Conduit liner construction. 3,438,475, 4-15-69, Cl. 193-2.

Tong, Peter P.; and Thomas, Richard H., to T & T Technology, Inc. Temperature measuring system. 3,461,724, 8-19-69, Cl. 73-362.

Tong, Shih Y., to Bell Telephone Laboratories, Incorporated. Automatic synchronization recovery techniques for cyclic codes. 3,466,601, 9-9-69, Cl. 340-146.1

Tong, Yu-Lan Chang; Tomalia, Donald A.; and Sheetz, David P., to Dow Chemical Company, The. Cyclic sulfates and their preparation. 3,454,597, 7-8-69, Cl. 260-327.

Tonge, Brian Lawrence: *See—*
Oakes, Vincent; Hutton, Ronald Eric; and Tonge, Brian Lawrence,3,448,130.

Tongret, Stewart: *See—*
Whitely, Richard L.; Yaggi, Lawrence A.; Shivers, Kenneth P.; and Tongret, Stewart,3,445,601.

Tongyai, Singkata: *See—*
Schuster, Ludwig K.; and Tongyai, Singkata,3,421,934.

Toni, Henry; and Zoeckler, Count Lee, to Smith, A. O., Corporation. Water heating system. 3,461,854, 8-19-69, Cl. 126-351.

Tonjes, Burl D., to Gilson Screen Company. Aggregate size testing apparatus and process. 3,439,800, 4-22-69, Cl. 209-3.

Tonjes, Burl D., to Gilson Screen Company, a partnership composed of Smith, Roberta W., Cline, Robert A., and Smith, Robert H. Gyratory and jarring sieve shake. 3,481,468, 12-2-69, Cl. 209-237.

Tonjes, Burl D.; and Brown, Delmont D., to Brown, D. S., Company, The. Machine for inserting elongated, laterally compressible strips in concrete joints and the like. 3,422,734, 1-21-69, Cl. 94-39.

Tonjes, Heinz Karl Wilhelm: *See—*
Dauth, Christoph Eugen; Tonjes, Heinz Karl Wilhelm; Heidenbluth, Karlheinz; and Schmidt, Joachim Fritz,3,475,449.

Tonjum, John A., to Hormel, Geo. A., & Company. Apparatus for pressing and smoking meat. 3,473,465, 10-21-69, Cl. 100-194.

Tonka Corporation: *See—*
Fahrendorff, Curtis H., 3,462,879.
Pauly, Ronald R.; and Zbikowski, Theodore H., 3,462,874.

Tonkin, Kenneth J.; Swanson, John L.; and Jeschke, Richard R., to Dick, A. B., Company. Offset duplicating machines with master loading and ejecting mechanisms. 3,431,841, 3-11-69, Cl. 101-142.

Tonn, Elmar: *See—*
Ludewig, Max; Zorner, Walter; and Tonn, Elmar,3,439,924.

Tonner, Francis I., to Staley, A. E., Manufacturing Company. Water dispersible alkyd resins comprising esterified units of an alkoxypolyoxyethylene glycol. 3,457,206, 7-22-69, Cl. 260-22.
Tonner, Richard C.; and Cerniglia, Nino P., to Sylvania Electric Products, Inc. Method of producing semiconductor devices. 3,464,104, 9-2-69, Cl. 29-582.
Tonner, Richard C.: *See—*
Mann, George B.; and Tonner, Richard C.,3,473,124.
Tonnesson, Alfred G., to Electronic Associates Inc. Readout system by sequential addressing of computer elements. 3,453,421, 7-1-69, Cl. 235-150.4
Tonnies, Frank Nicholas, to American Cyanamid Company. Selectively variable winding pattern control apparatus for thread winders. 3,477,654, 11-11-69, Cl. 242-26.1
Tono, Pietro, to Algemene Kunstzijde Unie, N. V. Process for imparting controlled mechanical characteristics to the high tenacity rayon yarns used as reinforcements in articles of rubber or plastic material. 3,449,059, 6-10-69, Cl. 8-116.4
Tonolli, A. & C., S.p.A.: *See—*
Tremolada, Gustavo, 3,456,886.
Tonooka, Hidenori; and Okano, Kinpei, to Hitachi, Ltd. Multiface cylindrical bearings for guiding rotation of vertical shafts. 3,433,542, 3-18-69, Cl. 308-121.
Tonozzi, Stephen A. Method of manufacturing printed circuit boards. 3,447,960, 6-3-69, Cl. 117-212.
Tonozzi, Stephen A.: *See—*
Behringer, Arthur J.; and Tonozzi, Stephen A.,3,447,957.
Tooby, George. Method for dehydrating materials. 3,466,756, 9-16-69, Cl. 34-5.
Toogood, Graham J.: *See—*
Hodges, John E.; Joyner, Philip G.; and Toogood, Graham J.,3,447,472.
Tooka, Takuzo; Araki, Hidejiro; Nagai, Manji; Nozaki, Choji; Hasegawa, Junzo; and Kawabata, Susumu, to Kabushiki Kaisha Toyoda Jido Shokki Seisakusho, and Kabushiki Kaisha Toyota Chuo Kenkyusho. Roller drafting system for spinning machinery. 3,457,597, 7-29-69, Cl. 19-258.
Tooley, Henry C.: *See—*
Nelson, Norman A.; Tooley, Henry C.; Eilers, Barney A.; and Helenberg, John,3,463,449.
Works, Madden T.; and Tooley, Henry C.,3,486,734.
Tools for Bending, Inc.: *See—*
Roberts, Charles H., 3,455,142.
Toombs, Harold D.: *See—*
Hyltin, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D.,3,436,604.
Klby, Jack S.; Toombs, Harold D.; and Van Tassel, James H.,3,484,534.
Toombs, Peter Alan Birrell, to International Standard Electric Corporation. Method for coating a surface of a substrate with an insulating material by sputtering. 3,485,739, 12-23-69, Cl. 204-192.
Toomey, George William, to Electrothermal Engineering Limited. Apparatus and method for unwinding a filamentary material. 3,451,205, 6-24-69, Cl. 57-18.
Toomey, John A.; and Toomey, Lawrence T. Clerical garment with military collar. 3,434,160, 3-25-69, Cl. 2-129.
Toomey, John W.: *See—*
Toomey, William H.; and Toomey, John W.,3,434,208.
Toomey, Lawrence T.: *See—*
Toomey, John A.; and Toomey, Lawrence T.,3,434,160.
Toomey, Robert D.; and Vassil, George, to National Lead Company. Process for continuously producing gaseous aluminum chloride. 3,446,579, 5-27-69, Cl. 23-93.
Toomey, William H.; and Toomey, John W. Circuit assembly process. 3,434,208, 3-25-69, Cl. 29-626.
Toot, William W. Pallet. 3,424,110, 1-28-69, Cl. 108-53.
Top Seal Incorporated: *See—*
Meisner, Paul, 3,478,489.
Topas, Benjamin, to Siemens Aktiengesellschaft, mesne. Method of etching a semiconductor material. 3,420,705, 1-7-69, Cl. 117-201.
Topas, Benjamin, to International Rectifier Corporation. Apparatus for dicing semiconductor wafers. 3,421,962, 1-14-69, Cl. 156-345.
Topas, Benjamin, to International Rectifier Corporation. High temperature controlled rectifier. 3,487,273, 12-30-69, Cl. 317-234.
Topas, Benjamin; and Weinstein, Harold, to International Rectifier Corporation. Controlled rectifier having shunted emitter formed by a nickel layer underneath an aluminum layer. 3,445,301, 5-20-69, Cl. 148-177.
Topaz, Jeremy M., to Polaroid Corporation. Automatic exposure control for photoflash exposures. 3,438,313, 4-15-69, Cl. 95-10.
Topchieva: *See—*
Katsobashvili, Jakov Rafailovich; and Belova, Galina Mikhailovna, 3,422,031.
Topcik, Barry: *See—*
Callan, John E.; and Topcik, Barry,3,485,791.
Tope, Clarke B., to Telstar Engineers, Inc. Slope paving apparatus. 3,427,937, 2-18-69, Cl. 94-45.
Tope, Paul H.; and Schmidt, Siegfried, to Whirlpool Corporation. Catalytic burner. 3,421,826, 1-14-69, Cl. 431-328.
Topf, Samuel B. One piece expansion fastener. 3,481,242, 12-2-69, Cl. 85-37.
Topfer, Heinz; and Milke, Eberhard, to Veb Reglerwerk Dresden. Electro-pneumatic and pneumatic-electric binary converter. 3,457,384, 7-22-69, Cl. 200-83.
Topfer, Herbert, to Siemens Aktiengesellschaft. Pulse transmission arrangement for telephone systems. 3,466,404, 9-9-69, Cl. 179-90.
Topfer, Horst: *See—*
Markwardt, Fritz; Schafer, Gerhard; Topfer, Horst; and Walsmann, Peter,3,432,596.
Topham, Alan Roger: *See—*
Cottam, Ronald Geoffrey; and Topham, Alan Roger,3,464,911.
Topham, Arthur: *See—*
Mitchell, John; and Topham, Arthur,3,446,641.
Topham, Elgin H. Portable windbreaker. 3,434,483, 3-25-69, Cl. 135-5.
Topham, William Henry, to British Petroleum Company Limited, The. Chromatographic equipment safe for use in hazardous atmospheres. 3,429,176, 2-25-69, Cl. 73-23.1
Topia SA: *See—*
Pieren, Heinz; and Toptani, Ilias, 3,466,098.
Topiel, Pincus; and Feldman, Samuel, to Atsons Products Corporation. Sweatband construction. 3,465,366, 9-9-69, Cl. 2-183.
Topits, Albert, Jr.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,583.
Topler, Ernest: *See—*
Langen, Jacobus Joseph; Langen, Marinus Jacobus Maria; and Topler, Ernest,3,461,642.
Topliffe, Doris H. Steam ironing board. 3,430,370, 3-4-69, Cl. 38-104.
Topliss, John G., to Schering Corporation. 1-Polyhalogenoalkyl-2-oxo-1,3-dihydro-2H-1,4- benzodiazepines. 3,429,874, 2-25-69, Cl. 260-239.3
Topliss, John G.; and Wohl, Arnold J., to Schering Corporation. 6,7-Disubstituted-3-cyclopentenyl-2H-1,2,4- benzothiadiazine-1,1-dioxides. 3,462,428, 8-19-69, Cl. 260-243.
Topol, George J., to Bowser, Inc. Radiation sensitive sludge level testing device. 3,441,737, 4-29-69, Cl. 250-218.
Topolski, Alvin S.; and Trumbull, Walter A., to Dow Chemical Company, The. Fracturing of solid bodies. 3,480,189, 11-25-69, Cl. 225-4.
Topouzian, Armen, to Ford Motor Company. Rotary friction drive mechanism. 3,456,518, 7-22-69, Cl. 74-207.
Topp, Ronald L.: *See—*
Movich, Richard C.; and Topp, Ronald L.,3,479,866.
Topper Corporation: *See—*
Bonanno, Joseph L., 3,477,171.
Friedman, Sol, 3,465,471.
Tepper, Sidney, 3,463,487.
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander, to Transcontinental Gas Pipeline Corporation, mesne. Method of and apparatus for suspending particles in a conduit. 3,421,050, 1-7-69, Cl. 317-3.
Topps Chewing Gum, Incorporated: *See—*
Heilbrunn, Alfred, 3,448,905.
Heilbrunn, Alfred, 3,458,899.
Topsoe, Haldor Frederik Axel: *See—*
Thygesen, Poul, 3,436,358.
Topsoe, Haldor Frederik Axel; Sorensen, Emil; and Mogensen, Erik. Catalyst for reforming hydrocarbons. 3,451,949, 6-24-69, Cl. 252-455.
Toptani, Ilias: *See—*
Pieren, Heinz; and Toptani, Ilias,3,466,098.
Torbeck, Johann: *See—*
Oesterling, Erwin; and Torbeck, Johann,3,473,536.
Torcaso, Michael A.: *See—*
Acheson, Willard P.; and Torcaso, Michael A.,3,467,206.
Torcheux, Emile L. G.: *See—*
Honore, Etienne A. H.; and Torcheux, Emile L. G.,3,434,143.
Torcheux, Emile Leon: *See—*
Honore, Etienne Augustin Henri; and Torcheux, Emile Leon,3,452,357.
Honore, Etienne; and Torcheux, Emile,3,441,726.
Torelli, Vesperto: *See—*
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto,3,449,382.
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto,3,478,062.
Torello, Manuel S.: *See—*
Mognet, Jean; Torello, Manuel S.; and Rius, Carlos C.,3,445,141.
Torfeh, Mark A.: *See—*
Aranyi, Steven F.; Barlow, Jesse P.; Rakocz, Laszlo L.; and Torfeh, Mark A.,3,440,616.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,444,525.

Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,487,373.
Torgerson, Raymond L.; Feld, David; and O'Neill, William P., to Shell Oil Company. Footwear assembly. 3,484,959, 12-23-69, Cl. 36-9.
Torginol of America, Inc.: *See—*
Wiest, Lee Johnston, 3,477,625.
Torigai, Kinichi: *See—*
Hori, Masao; Fujimura, Tadato; Ohuchi, Yoshihiro; and Torigai, Kinichi,3,466,154.
Torigai, Yasuo; and Ishizaki, Keizo. Method and apparatus for improving the coatability in the manufacture of coated welding rod or wire. 3,456,295, 7-22-69, Cl. 18-13.
Torii, Sakuzo. Dead bolt lock operating means. 3,464,242, 9-2-69, Cl. 70-134.
Torimae, Yasuhiro: *See—*
Funatsu, Makoto; and Torimae, Yasuhiro,3,445,396.
Torin Corporation: *See—*
Glucksman, Dov Zeev; and Fay, Thomas W., 3,477,635.
Torit Manufacturing Company: *See—*
Kulzer, Gene T., 3,475,884.
Swanson, Rolf G., 3,457,645.
Toriuchi, Yahiko: *See—*
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; Toriuchi, Yahiko; and Matsumi, Shunji,3,446,776.
Tork Time Controls, Inc.: *See—*
Shaw, Mark B., 3,421,008.
Torlo International Limited: *See—*
MacKenzie, Alexander K.; MacKenzie, Lloyd D.; and Pottinger, George C., 3,467,400.
Torman, Charles H., to Orlando Paving Company. Spreader. 3,439,593, 4-22-69, Cl. 94-44.
Tornborg & Lundbert Aktiebolag: *See—*
Palm, Bertil Olof, 3,440,745.
Tornheim, Harold: *See—*
Cohn, George I.; and Tornheim, Harold,3,447,374.
Tornmarck, Sven Ivan Arvid, to Kockums Mekaniska Verkstads Aktiebolag. Device for drying exhaust gases from an internal combustion engine. 3,426,526, 2-11-69, Cl. 60-30.
Tornqvist, Erik: *See—*
Aronsson, Arent; and Tornqvist, Erik,3,467,541.
Tornqvist, Erik, to Esso Research and Engineering Company. Catalyst for ethylene polymerization. 3,420,809, 1-7-69, Cl. 260-94.9
Tornqvist, Erik, to Esso Research and Engineering Company. Novel catalyst and process for the cyclotrimerization of conjugated diolefinic materials. 3,424,774, 1-28-69, Cl. 260-429.5
Tornqvist, Erik, to Esso Research and Engineering Company. Ethylene polymerization. 3,427,299, 2-11-69, Cl. 260-94.9
Tornqvist, Erik, to Esso Research and Engineering Company. Catalyst for the polymerization of conjugated diolefins. 3,471,461, 10-7-69, Cl. 260-94.3
Tornqvist, Erik, to Esso Research and Engineering Company. Method for forming olefin polymerization catalysts. 3,480,562, 11-25-69, Cl. 252-429.
Tornqvist, Nils Erik; and Stark, Sven Olof Soren, to AB Tetra Pak. Method of applying preferably band-shaped metal parts with good mechanical adhesion to a metal frame coated with insulating, preferably ceramic material. 3,427,425, 2-11-69, Cl. 219-78.
Toro Manufacturing Corporation: *See—*
Hasenbank, Kenneth N., 3,429,402.
Hasenbank, Kenneth N., 3,430,424.
Hunter, Edwin James, 3,468,484.
Speiser, Ralph W.; and Lindquist, William C., 3,460,350.
Toroid Corporation: *See—*
Shelley, Robert E., 3,420,582.
Torok, Ernest J.: *See—*
Barker, Paul D.; and Torok, Ernest J.,3,432,828.
Olson, Arvid L.; Oredson, Henry N.; and Torok, Ernest J.,3,434,124.
Torok, Jozsef, to Keripar Kereskedelmi Berendezeseket es Gepeket Gyarto Vallalat. Composite space-defining structure. 3,480,345, 11-25-69, Cl. 312-257.
Torok, Julius J., to Owens-Illinois, Inc. Method and apparatus for controlling the heat build-up within glassware forming apparatus. 3,468,654, 9-23-69, Cl. 65-162.
Torok, Sandor: *See—*
Ecsery, Zoltan; Knoll, Jozsef; Kosa, Ildiko; Sandor, Ildiko; Somfai, Eva; and Torok, Sandor,3,485,874.
Torok, Vilmos, to Allmanna Svenska Elektriska Aktiebolaget. Device for optical determination of the position of radiating or reflecting body. 3,446,968, 5-27-69, Cl. 250-201.
Toromanoff, Edmond: *See—*
Martel, Jacques; Huynh, Chanh; Toromanoff, Edmond; and Nominc, Gerard,3,445,499.
Torongo, Albert H., Jr.: *See—*
Chernack, Milton P.; and Torongo, Albert H., Jr.,3,448,495.
Torongo, Albert, Jr.: *See—*
Scurlock, Robert L.; and Torongo, Albert, Jr.,3,480,192.
Torosian, Aram J. Mobile scaffold. 3,447,634, 6-3-69, Cl. 182-131.
Torossian, Antoine: *See—*
Rebut, Paul-Henri; and Torossian, Antoine,3,470,454.
Torque Controls, Inc.: *See—*
Stasiek, Jan S., 3,453,860.
Torque Industries, Inc.: *See—*
Cole, Howard W., Jr., 3,442,462.
Torr Laboratories Inc.: *See—*
De Lucia, Victor E., 3,441,882.
de Lucia, Victor E., 3,443,046.
Torr, Ralph P., to Andre Rubber Company Limited. Spacers for overhead transmission lines. 3,465,089, 9-2-69, Cl. 174-40.
Torrance, James H.: *See—*
Coleman, Charles H.; and Torrance, James H.,3,448,600.
Torrence, James D.: *See—*
Burkhardt, Edgar S.; and Torrence, James D.,3,456,889.
Torrence, Ronald M., to Torrington Company, The. Tufting machine needle assembly. 3,485,195, 12-23-69, Cl. 112-226.
Torrenzano, Archie P.; and Pincince, Richard T., to Monsanto Company. Solvent cleaning system. 3,475,218, 10-28-69, Cl. 134-10.
Torres, Guillermo. Catamenial appliance with disposable supports. 3,461,873, 8-19-69, Cl. 128-289.
Torres, Jorge, to Purolator Products, Inc. Swaged ferrule type flexible coupling. 3,438,657, 4-15-69, Cl. 285-233.
Torres, Morris. Educational devices. 3,471,941, 10-14-69, Cl. 35-9.
Torres, Noel M. Structural joint assembly. 3,476,421, 11-4-69, Cl. 287-189.36
Torresen, Robert, to Brunswick Corporation. Bowling ball polishing machine. 3,445,876, 5-27-69, Cl. 15-97.
Torresen, Robert, to Brunswick Corporation. Bowler identification device. 3,480,276, 11-25-69, Cl. 273-54.
Torrey, Bradford M., to Charecogn Systems, Inc. Code reading system. 3,453,419, 7-1-69, Cl. 235-61.11
Torrey, LeRoy J.: *See—*
Vock, Bernhard; and Torrey, LeRoy J.,3,475,581.
Torrey, Sumner H.; Dubuque, Donald J.; Sloan, Norman R.; and Morris, Robert L., to Roper, Geo. D., Corporation. Door locking means and associated control circuit for self-cleaning oven. 3,469,568, 9-30-69, Cl. 126-39.
Torrey, Sumner H.; Dubuque, Donald J.; Weiss, Johnny C.; and Sloan, Norman R., to Roper, Geo. D., Corporation. Self-cleaning gas oven. 3,480,000, 11-25-69, Cl. 126-39.
Torrington Company, The: *See—*
Benson, Carl F., 3,431,037.
Bowen, Willard L., III, 3,438,661.
Cowles, John H., 3,423,140.
Cowles, John H.; and Rollins, James W., 3,434,322.
Grange, Arthur Savage; and Paton, John McDougall, 3,476,450.
Herpich, William M., 3,471,878.
Massey, Roger G., 3,476,226.
Rollins, James W.; and Moroney, John J., 3,424,507.
Rollins, James W., 3,469,427.
Torrence, Ronald M., 3,485,195.
Zampichelli, Vincenzo, 3,441,165.
Torrington Manufacturing Company, The: *See—*
Bornstein, Richard W., 3,446,426.
Cavagnero, Erman V.; Sheffield, Wilbur L.; and Morro, Joseph L., 3,433,041.
Delaney, Vincent N., 3,434,264.
Glucksman, Dov Zeev; and Bornstein, Richard W., 3,459,365.
Torsellini, Renato. Process and a device for producing interlaced filament synthetic and artificial yarns. 3,474,510, 10-28-69, Cl. 28-1.
Torti, Emanuel. Adjustable trench shoring machine. 3,473,336, 10-21-69, Cl. 61-41.
Torti, Maurice L., Jr.: *See—*
Grant, Foster R.; and Torti, Maurice L., Jr.,3,426,420.
Tortorici, John Joseph; Terleckyj, Jaroslav; and Markkanen, Carl Olavi, to Fairchild Camera and Instrument Corporation. Control for photocomposing apparatus. 3,485,150, 12-23-69, Cl. 95-4.5
Tosaki, Chikao: *See—*
Umeno, Masashi; Miyake, Makoto; and Tosaki, Chikao,3,479,858.
Tosca, Alessandro; and Pisani, Giuseppe. Automatic machine for continuously winding up and lacing threadlike products such as bare or covered wires and cables to coils. 3,429,346, 2-25-69, Cl. 140-92.2
Toscaniova, Eva: *See—*
Vondracek, Miloslav; Toscaniova, Eva; and Hoffman, Josef,3,481,916.
Tosch, William C.: *See—*
Jones, Stanley C.; Sanders, Laurence R., Jr.; Tosch, William C.; and Wenger, Charles B.,3,477,511.
Tosches, Anthony J.: *See—*
Thibault, Harrison N.; and Tosches, Anthony J.,3,431,951.
Tosetto, Walter: *See—*
Rota, Beniamino; and Tosetto, Walter,3,455,230.
Tosh, Roy B., to Frick Company. Capacity control means for rotary compressors. 3,451,614, 6-24-69, Cl. 230-138.
Toshiba Kakai Kabushiki Kaisha: *See—*
Kimura, Koya, 3,444,542.

Toshiba Kikai Kabushiki Kaisha: *See—*
Sagara, Toshio; Shoji, Masahiro; and Tsukahara, Hiroshi, 3,441,982.
Toshiba Machine Co., Ltd.: *See—*
Nozawa, Masayuki; Ito, Toshinori; Hayashi, Shingo; and Otsuka, Naotoshi, 3,427,912.
Toshiba Tungaloy Kabushiki Kaisha: *See—*
Iwase, Keizo; Takada, Toshio; Kiyama, Masao; Kasahara, Shigenobu; Fukatsu, Tamotsu; Takatsu, Soukichi; and Kusaka, Teiji, 3,440,035.
Toshida, Shunichi; Suda, Hiroharu; and Suzuki, Kazuo, to Nissan Jidosha Kabushiki Kaisha. Impact absorbable steering assembly. 3,457,800, 7-29-69, Cl. 74-492.
Toshinai, Akio: *See—*
Ozawa, Lyuji; and Toshinai, Akio,3,483,415.
Ozawa, Lyuji; Toshinai, Akio; and Nagashima, Yoshihisa,3,470,411.
Tosi, Pierre Guy, to Centre de Recherches de Pont-a-Mousson. Change-speed mechanism for an automobile vehicle. 3,426,617, 2-11-69, Cl. 74-688.
Tosti, Carlo: *See—*
Pesarini, Mario; and Tosti, Carlo,3,438,303.
Tosti, William P., to Dennison Manufacturing Company. Photocopier. 3,431,051, 3-4-69, Cl. 355-45.
Tot-Top Company: *See—*
Lewis, Norman J., 3,451,576.
Total Packaging Inc.: *See—*
Stroop, John H., 3,423,902.
Stroop, John H., 3,464,592.
Tote-Cart Company: *See—*
Kampf, William C., 3,433,496.
Toth, Endre Leslie: *See—*
Chew, Charles R.; and Toth, Endre Leslie,3,426,952.
Toth, Imre: *See—*
Boucraut, Michael; Toth, Imre; and Blum, Jacques,3,463,553.
Boucraut, Michel; and Toth, Imre,3,433,624.
Boucraut, Michel; and Toth, Imre,3,446,355.
Toth, Joseph L., to Burr-Ban Tool Service Company. Hole grooving device. 3,435,729, 4-1-69, Cl. 90-12.
Toth, Joseph; and Lovas, George, said Toth assor. to said Lovas, George. Display and amusement apparatus. 3,440,750, 4-29-69, Cl. 40-140.
Toth, Julius, to Westinghouse Electric Corporation. Multi-pole circuit breaker with common trip bar. 3,422,381, 1-14-69, Cl. 335-9.
Toth, Klara: *See—*
Pungor, Erno; Havas, Jeno; Toth, Klara; and Madarasz, Geza,3,446,726.
Toth, Louis P.: *See—*
Bulk, Robert A.; and Toth, Louis P.,3,461,798.
Sarka, Albert J.; and Toth, Louis P.,3,455,763.
Sarka, Albert J.; and Toth, Louis P.,3,460,443.
Toth, Louis R.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,430,942.
Toth, Louis, to Anchor Enterprises Corporation. Venetian blind window. 3,443,624, 5-13-69, Cl. 160-107.
Toth, Louis, to Anchor Enterprises Corporation. Awning type security window. 3,460,289, 8-12-69, Cl. 49-50.
Toth, Michael J.: *See—*
Baer, Sheldon; Toth, Michael J.; and Dunning, John W.,3,451,828.
Toth, Paul: *See—*
Hohwart, George; and Toth, Paul,3,423,098.
Hohwart, George; and Toth, Paul,3,460,847.
Toti, Andrew J. Valance structure. 3,435,876, 4-1-69, Cl. 160-38.
Toto Manufacturing Corporation: *See—*
Hunter, Edwin J., 3,454,225.
Toto, William A. Connectors for flexible welding cable assemblies. 3,456,064, 7-15-69, Cl. 174-15.
Toto, William A., to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Connectors for flexible welding cable assemblies. 3,467,457, 9-16-69, Cl. 312-45.
Toto, William. Electrically conductive cable rope. 3,467,767, 9-16-69, Cl. 174-113.
Totos, Rosa: *See—*
Szava, Jeno; Sarosi, Magdolna; and Totos, Rosa,3,463,799.
Totta, Paul A.: *See—*
Mutter, Walter E.; and Totta, Paul A.,3,461,357.
Napier, John; Sopher, Raeman P.; Totta, Paul A.; De Witt, David; and Karan, Clarence,3,458,925.
Totty, Kenneth D.: *See—*
Johnson, Billy J.; Totty, Kenneth D.; and Young, Bill M.,3,437,145.
Toubhans, Rene H. Supporting holder for measuring tool. 3,474,991, 10-28-69, Cl. 248-12.
Toubhans, Rene H. Micrometer with non-backlash, non-rotating lead screw. 3,484,942, 12-23-69, Cl. 33-166.
Touchman, William S., to National Cash Register Company, The. Intermittent motion apparatus. 3,448,622, 6-10-69, Cl. 74-1.5
Touchman, William S., to National Cash Register Company, The. Intermittent motion apparatus. 3,460,343, 8-12-69, Cl. 60-6.
Touchy, Wolfgang, to Siemens Aktiengesellschaft. Pressure-responsive semiconductor device. 3,426,424, 2-11-69, Cl. 29-578.
Touey, George P.: *See—*
Kiefer, John E.; and Touey, George P.,3,420,245.
Kiefer, John E.; and Touey, George P.,3,476,120.
Touey, George P.; and Mumpower, Robert C., II, to Eastman Kodak Company. Filter element for selectively removing nicotine from tobacco smoke. 3,424,173, 1-28-69, Cl. 131-267.
Touey, Gerge P.; and Mumpower, Robert C., II, to Eastman Kodak Company. Blends of cellulose acetate and polyolefin fibers in tow form. 3,451,887, 6-24-69, Cl. 161-168.
Touher, Paul B.: *See—*
Slock, Harry W.; and Touher, Paul B.,3,433,650.
Toulemonde, Dominque: *See—*
Thibaut, Yves; and Toulemonde, Dominque,3,486,072.
Toulemonde, Jacques; and Gallay, Maurice, to Compagnie Generale d'Electricite. Power rectifying device including heat exchange arrangement. 3,469,171, 9-23-69, Cl. 321-8.
Toulier, Pierre, to Societe Anonyme, D.B.A. Starter drive assembly. 3,486,385, 12-30-69, Cl. 74-7.
Toulis, William J. Superdirective transmitting and receiving array. 3,487,464, 12-30-69, Cl. 343-755.
Toull, William Herbert: *See—*
Rand, Walter Leslie; Hutton, Henry James; Toull, William Herbert; and Zouch, Leslie Eric,3,481,111.
Toups, Stanford S.: *See—*
Richardson, James T.; and Toups, Stanford S.,3,477,018.
Tourison, Asher. Spade drill. 3,436,990, 4-8-69, Cl. 77-68.
Tournois, Pierre, to CSF-Compagnie Generale de Telegraphie Sans Fil. Dispersive acoustic line using two-layer fluid media. 3,435,381, 3-25-69, Cl. 333-30.
Tournois, Pierre, to CSF-Compagnie Generale de Telegraphie Sans Fil. Acoustical dispersive delay line having stratified waveguide of at least two solid media coupling input and output transducers. 3,464,033, 8-26-69, Cl. 333-30.
Tourtellot, John Allen, to Radio Corporation of America. Phonograph with circuit board mounted on the motorboard beneath the turnable. 3,444,333, 5-13-69, Cl. 179-100.4
Tourville, Thomas W., to Teletype Corporation. Start mechanism for telegraph selector. 3,452,154, 6-24-69, Cl. 178-33.
Tousignant, William F.: *See—*
Decker, Dalton L.; Moore, Carl; and Tousignant, William F.,3,454,657.
Toussaint, Henri: *See—*
Delbouille, Andre; and Toussaint, Henri,3,479,326.
Toussaint, Henry: *See—*
Delbouille, Andre; and Toussaint, Henry,3,424,737.
Toussaint, Marcel: *See—*
Lagasse, Joseph Louis; Palardy, Jacques; Greenlay, John E.; Guimond, Jean P.; and Toussaint, Marcel,3,485,432.
Toussaint, Norbert F. Transfer sheet and protective composition therefor. 3,449,149, 6-10-69, Cl. 117-36.4
Touw, Theodore R.; Swaney, Casper B.; and Atwood, Bruce C., to International Business Machines Corporation. Fabrication of resistors. 3,453,727, 7-8-69, Cl. 29-620.
Touzalin, Robert E.; and Patrick, Rudolph R., to Interlake Steel Corporation. Method for mixing molten metal. 3,459,536, 8-5-69, Cl. 75-45.
Tovaglieri, Fabio: *See—*
Cerutti, Giacomo; Faraci, Giorgio; and Tovaglieri, Fabio,3,438,194.
Tove, Per-Arne: *See—*
Bergstrand, Gunnar M.; and Tove, Per-Arne,3,439,199.
Tovey, Henry, to Cotton Producers Institute. Delayed cure of cellulosic articles. 3,434,794, 3-25-69, Cl. 8-116.3
Tovey, Henry; Prahl, Helmut F.; and Hart, Frederick M., to Cotton Producers Institute, mesne. Treating cellulosic textiles. 3,434,870, 3-25-69, Cl. 117-106.
Tovrog, Theodore; and Krawetz, Arthur A., to Phoenix Chemical Laboratory, Inc. Viscometer. 3,434,338, 3-25-69, Cl. 73-55.
Towell, Gordon D.: *See—*
Mac Henry, Carl; Weaver, John A.; and Towell, Gordon D.,3,477,491.
Tower, Stephen N.: *See—*
Gunson, William E.; Sutherland, John D.; and Tower, Stephen N.,3,437,558.
Towers, Harvey S.; and Blackert, John E., to Xerox Corporation. Microfilm copier attachment. 3,424,525, 1-28-69, Cl. 355-3.
Towle, Jack C.; Du Rose, Arthur H.; Meek, William H., Jr.; and Block, Dale G., to Kewanee Oil Company. Process of and electrolytes for bright nickel electroplating. 3,428,536, 2-18-69, Cl. 204-49.
Towle, Jack L.; and Mudrak, Anton, to Kewanee Oil Company. Disazo pigments. 3,441,555, 4-29-69, Cl. 260-176.
Towle, Philip H.: *See—*
Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H.,3,452,088.
Towle, William C.: *See—*
Fierston, Stanley A.; and Towle, William C.,3,428,905.

Towlerton, Richard George; and Lord, John Gilbert, to Boots Pure Drug Company Limited. Nutritional compositions for piglets. 3,487,434, 12o30-69, Cl. 119-51.

Towmotor Corporation: *See—*
Brunner, Gerald F., 3,452,848.
Eggers, Robert G.; and Grant, Arthur, 3,448,634.
Eggers, Robert G.; and Grant, Arthur R., 3,465,649.
Grant, Arthur F.; and Eggers, Robert G., 3,430,585.
Grant, Arthur F., 3,451,218.
Grant, Arthur F., 3,463,087.
Kern, Richard J.; and Sweigert, Ernest C., 3,486,335.

Town, Frank: *See—*
Cowlishaw, Frank; and Town, Frank,3,460,697.
Cowlishaw, Frank; and Town, Frank,3,476,275.

Town, Frank, to Dobson, W. E. & F., Limited. Fluid valve means for mine roof supports. 3,464,445, 9-2-69, Cl. 137-596.18

Town, Frank, to Dobson, W. E. & F., Limited. Pilot-operable hydraulic valve. 3,477,465, 11-11-69, Cl. 137-596.18

Towne Robinson Fastener Company: *See—*
Beebe, Jerry T.; and DeLoe, O. Paul, 3,431,959.

Townend, Lionel Henry, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the. Supersonic fluid flow exhaust nozzles. 3,443,757, 5-13-69, Cl. 239-265.13

Towner, George R.: *See—*
Hawley, Jack S.; and Towner, George R.,3,434,136.

Towner Manufacturing Company: *See—*
Heckathorn, Loyd E.; and Cordes, Hugh B., 3,486,565.

Townes, Charles H.; Garmire, Elsa M.; Chiao, Raymond Y.; and Stoicheff, Boris P., to Massachusetts Institute of Technology. Stimulated brillouin parametric devices. 3,469,107, 9-23-69, Cl. 307-88.3

Towns, Edward J. Fountain brush holding device. 3,420,611, 1-7-69, Cl. 401-115.

Townsend, Charles L.; and McGowan, Jared M., to Telepro Industries, Incorporated. Cartridge tape recorder play-back instrument. 3,420,965, 1-7-69, Cl. 179-100.2

Townsend, David James, to C.D.T. Design Consultants Limited. Weel positioning arrangement for pallet vehicle. 3,424,472, 1-28-69, Cl. 280-47.11

Townsend, Douglas William. Seat belt system and arrester. 3,484,134, 12-16-69, Cl. 297-386.

Townsend, Edwin F., to Easco Leasing Corporation. Method and apparatus for removing backing sheets from thin laminates. 3,451,872, 6-24-69, Cl. 156-254.

Townsend, Edwin F., to Easco Leasing Corporation. Apparatus for removing individual laminates from a continuous backing sheet. 3,452,712, 7-1-69, Cl. 118-249.

Townsend, Edwin F.; and Young, Stanley C., to Easco Leasing Corporation. Method and apparatus for removing backing sheets from thin laminates. 3,477,896, 11-11-69, Cl. 156-584.

Townsend, Francis E. Bill validating apparatus. 3,481,464, 12-2-69, Cl. 209-73.

Townsend, Franklin L.: *See—*
Crandall, Charles B.; and Townsend, Franklin L.,3,468,116.

Townsend, George E.: *See—*
Lannert, James W.; Townsend, George E.; and Schrage, David W.,3,453,085.

Townsend, Harold L.: *See—*
Dunlap, Peggy M.; Brandner, Carl F.; and Townsend, Harold L.,3,467,190.

Townsend Harvester Corporation: *See—*
Townsend, Ray F., 3,447,293.

Townsend, Miles A., to United States of America, Navy, mesne. Control valve system. 3,446,225, 5-27-69, Cl. 137-28.

Townsend, Miles A., to Westinghouse Electric Corporation. Control system for turbines. 3,446,483, 5-27-69, Cl. 253-59.

Townsend, Palmer W.; Laird, William B.; and Halfon, Albert, to Air Reduction Company, Incorporated. Apparatus for the production of carbon dioxide snow. 3,443,389, 5-13-69, Cl. 62-35.

Townsend, Ray F., to Townsend Harvester Corporation. Mechanical harvester for fruit trees. 3,447,293, 6-3-69, Cl. 56-328.

Townsend, Richard L.; and Weldon, Edward J., Jr., to Bell Telephone Laboratories, Incorporated. Error control system. 3,475,724, 10-28-69, Cl. 340-146.1

Townsend, Robert D., Jr., to Mobil Oil Corporation. Method and apparatus for lightening the load on a subsea conductor pipe. 3,434,550, 3-25-69, Cl. 175-5.

Townsend, Robert W. Method of removing coatings caused by storage of meal or flour in dry bulk form and particularly for preparing for re-use lined railroad hopper cars. 3,424,616, 1-28-69, Cl. 134-7.

Townsend, Stephen E., to Xerox Corporation. Pulse stretching circuit for generating pulses of minimum width. 3,422,287, 1-14-69, Cl. 307-267.

Townsend, Stephen E., to Xerox Corporation. Phase comparison circuit. 3,437,845, 4-8-69, Cl. 307-295.

Townsend, Stephen E., to Xerox Corporation. High intensity flying spot scanner. 3,441,668, 4-29-69, Cl. 178-7.2

Townsend, Stephen E., to Xerox Corporation. Background compensator for facsimile communication system. 3,443,026, 5-6-69, Cl. 178-7.2

Townsend, Stephen E., to Xerox Corporation. CRT scan stabilizer. 3,447,026, 5-27-69, Cl. 315-21.

Townsend, Stephen E., to Xerox Corporation. Field effect transistor buffer amplifier. 3,457,520, 7-22-69, Cl. 330-40.

Townsend, Stephen E., to Xerox Corporation. Facsimile resolution improvement by utilization of a variable velocity sweep signal. 3,479,453, 11-18-69, Cl. 178-6.7

Townsend, Stephen E.; and Mack, Donald E., to Xerox Corporation. Dicode decoder with interrupted feedback. 3,462,695, 8-19-69, Cl. 328-119.

Townsley, John J.; and Gershon, Milton, to Thiokol Chemical Corporation. Magnetically controlled fluid injector. 3,432,106, 3-11-69, Cl. 239-585.

Towslee, Harold E., Jr., to E-Z Mills Inc. Elastic weft knitted rib fabric. 3,477,257, 11-11-69, Cl. 66-200.

Towson Laboratories, Inc.: *See—*
Egerton, McKenny W., Jr., 3,449,741.

Towtari, Yoshishiga: *See—*
Hiraga, Teitaro; Wakabayasi, Syoichi; Towtari, Yoshishiga; and Inuyama, Tadao,3,481,876.

Toy, Arthur D. F., to Colonial Sugar Refining Company Limited, The, mesne. Calcium sugar phosphate process. 3,428,624, 2-18-69, Cl. 260-234.

Toy Development Center, Inc., The: *See—*
Elwell, Charles A., 3,436,083.

Toy, Leonard E.; and Weisz, Robert G., to Standard Oil Company (Indiana). Elastomeric sealant compositions. 3,487,038, 12-30-69, Cl. 260-29.7

Toy, Madeline S.; Cannon, William A.; English, William David; and Berger, Carl, to United States of America, Army, mesne. Batteries with halogen fluoride electrolyte. 3,427,207, 2-11-69, Cl. 136-155.

Toy, Wing N., to Bell Telephone Laboratories, Incorporated. Error detection circuits. 3,428,945, 2-18-69, Cl. 340-146.1

Toyama Kagaku Kogyo Kabushiki Kaisha: *See—*
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko, 3,455,913.

Toyama, Teruhiko: *See—*
Kato, Kichiro; Fujita, Hiroshi; Toyama, Teruhiko; Kiyohisa, Yukio; Yoshimoto, Takeo; and Yanami, Tetsuo,3,454,392.

Toyne, Clifford C. Means for applying a load to a structure. 3,482,438, 12-9-69, Cl. 73-94.

Toyo Boseki Kabushiki Kaisha: *See—*
Fukumoto, Juichiro; and Yamamoto, Takehiko, 3,431,176.
Ichimi, Teruhiko; Okazaki, Takeshi; Tsutsui, Nobuhiro; and Minami, Shinsaku, 3,455,771.
Matsui, Isamu, 3,450,358.
Matsui, Isamu; Miyagi, Tamotsu; and Funahashi, Muneaki, 3,480,215.
Shimai, Junichiro; Matsui, Isamu; Kawamura, Syuzo; and Sakai, Syoji, 3,476,328.
Yamamoto, Naonari; Masuda, Mitsuo; Saikawa, Toshihiko; Tsubota, Akira; Shida, Yasuo; and Matsumura, Toshiji, 3,440,688.

Toyo Ethyl Kabushiki Kaisha: *See—*
Imura, Shinichi; and Yamanaka, Masaru, 3,442,924.

Toyo Koatsu Industries, Incorporated: *See—*
Azakami, Shinji; Kawakami, Toshio; and Takemoto, Yoshiharu, 3,484,193.
Isowa, Yoshikazu, 3,441,579.
Miyake, Yasuhiko; Adachi, Saburo; Yamauchi, Norifumi; Hayashi, Toshio; and Akimoto, Masamichi, 3,426,041.
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi, 3,457,226.
Otsuka, Eiji; Inoue, Shigeru; and Kanai, Kazumichi, 3,436,317.
Watanabe, Hiroshi; Ozaki, Masami; and Hara, Junji, 3,435,098.

Toyo Kogyo Company Limited: *See—*
Okamoto, Hideo, 3,456,624.
Satoh, Hideya, 3,464,394.
Yamamoto, Kenichi, 3,476,092.
Yamamoto, Kenichi; and Satoh, Hideya, 3,483,850.

Toyo Kogyo Kabushiki Kaisha: *See—*
Kobayakawa, Takaharu, 3,448,727.

Toyo Kohan Co., Ltd.: *See—*
Kitamura, Yoichi; and Inui, Tsuneo, 3,484,343.

Toyo Kotsu Industries Incorporated: *See—*
Ueno, Kisaburo; Hirose, Akira; and Shinozawa, Tetsuichi, 3,482,957.

Toyo Rayon Kabushiki Kaisha: *See—*
Hata, Go; and Miyake, Akihisa, 3,475,509.
Ito, Shoichi; Kawamoto, Ichiro; and Hara, Yoichiro, 3,431,188.
Ito, Yoshikazu; Wakamatsu, Shigeru; Hara, Yoichiro; and Morino, Jiro, 3,479,264.
Kawabata, Yasuro; Maekawa, Haruki; Watanabe, Masamoto; and Tsuda, Yoshizo, 3,485,804.

Kurokawa, Harutoshi; Machida, Junzo; Nishikawa, Takao; Hirata, Eiichi; and Hisaki, Hisao, 3,454,348.
Maruyama, Minoru; and Nakasatomi, Masaru, 3,481,906.
Matsumura, Kiichiro; Sugawara, Yoshio; Kamaishi, Tadami; and Atarashi, Yuji, 3,475,394.
Nakanishi, Ryoji; Yoda, Naoya; and Kurihara, Masaru, 3,424,728.
Nakashima, Hirotaka; Maeda, Katsunosuke; Fukunaga, Togo; Suzuki, Satoru; and Matsuoka, Kenichiro, 3,468,121.
Okazaki, Kaoru; Nakasatomi, Masaru; and Maruyama, Minoru, 3,446,782.
Ono, Terumichi; Mizutani, Shigeru; and Arai, Hazime, 3,439,084.
Shinkai, Akihiro; Fujiura, Masumi; and Yonezawa, Tooru, 3,458,900.
Tsutsumi, Tadao, 3,422,136.
Wakamatsu, Shigeru; and Hosaka, Shuntaro, 3,475,305.
Wakamatsu, Shigeru; and Hosaka, Shuntaro, 3,483,103.
Yoda, Naoya; Nakanishi, Ryoji; Kubota, Takashi; Kurihara, Masaru; and Ikeda, Kojyuro, 3,468,851.
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro, 3,449,196.

Toyo Rika Kogyo Company Limited: *See—*
Agatsuma, Tadao; and Yamano, Kiyoshi, 3,466,129.

Toyo Seikan Kabushiki Kaisha: *See—*
Saeki, Kunio; and Kamoi, Arao, 3,456,930.

Toyo Soda Manufacturing Co., Ltd.: *See—*
Kosaka, Yujiro; Hayata, Masaaki; and Hisatomi, Yoshihiro, 3,448,057.

Toyoda Automatic Loom Works, Ltd.: *See—*
Hayashi, Shintaro, 3,425,529.

Toyoda, Hiromichi; Tayama, Kazuo; Miyazaki, Yoshitoshi; Hinohara, Keiichi; and Suzuki, Hisao, to Yawata Iron & Steel Co., Ltd., and Mitaka Instrument Co., Ltd. Apparatus for high-accuracy and quick-response detection of the calorific value of a gas. 3,472,071, 10-14-69, Cl. 73-190.

Toyoda Koki Kabushiki Kaisha (Toyoda Machine Works Ltd.): *See—*
Tomita, Tamaki; Shima, Yoshio; and Sugiura, Hiroaki, 3,474,315.

Toyoda Machine Works, Ltd.: *See—*
Kondo, Takeichi; Kato, Yoshimi; and Muramatsu, Yasunori, 3,482,197.
Tomita, Tamaki; Wada, Ryuji; and Kodama, Hayashi, 3,454,311.

Toyoda, Minoru; and Kobashi, Uichiro, to Aisin Seiki Company Limited. Fan assembly of the variable air delivery type. 3,482,552, 12-9-69, Cl. 123-41.11

Toyoda, Yoichi: *See—*
Nakahara, Shigeru; and Toyoda, Yoichi,3,469,887.

Toyomoto, Kazuo: *See—*
Minekawa, Saburo; Yamaguchi, Koretaka; Toyomoto, Kazuo; Fujimoto, Einosuke; and Suzuki, Teruhiko,3,449,179.

Toyooka, Shigetsugu: *See—*
Takatsuka, Kenji; and Toyooka, Shigetsugu,3,441,813.

Toyooka, Tadao; Ota, Shigekazu; and Nishida, Takeo, to Matsushita Electric Industrial Co., Ltd. Woven heater. 3,425,020, 1-28-69, Cl. 338-208.

Toyoshima, Kiyoshi: *See—*
Tanaka, Ryoma; Toyoshima, Kiyoshi; and Ichiki, Eiichi,3,474,121.

Toyota Jidosha Kabushiki Kaisha: *See—*
Tajima, Atsushi; and Moriya, Shigeru, 3,461,740.

Toyota Jidosha Kogyo Kabushiki Kaisha: *See—*
Makino, Takayuki, 3,422,349.
Noguchi, Masaaki; and Sakakibara, Shigeru, 3,453,907.
Numazawa, Akio, 3,459,063.
Toda, Tadahide; Yamada, Mitsumasa; and Obata, Haruyuki, 3,439,703.
Toda, Tadahide; Gotoh, Kenji; and Obata, Haruyuki, 3,450,115.

Toyota Motor Co. Ltd.: *See—*
Inaba, Seiuemon; and Ishihara, Yasumasa, 3,482,357.
Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,466,946.
Ohya, Minoru; and Uozumi, Sumio, 3,425,300.
Toda, Tadahide; Hanaoka, Masanori; and Yamaguchi, Taro, 3,473,626.

Tozer, J. R., Jr.: *See—*
Tyler, Roy Hurshel, 3,457,367.

T.P.I. Limited: *See—*
Waddington, Rogor Strange; and Duval, Brucc, 3,457,783.
Waddington, Rogor Strange; and Duval, Bruce, 3,471,943.

Trab, Abdulrahim Cheikh, to Olympia Werke AG. Cycloidal motion producing means for printing wheels in high speed printers. 3,455,237, 7-15-69, Cl. 101-91.

Trab, Abdulrahim Cheikh; and Ricke, Heinz, to Olympia Werke AG, Firma. Eccentrically mounted platen structure in selective printing machines. 3,461,797, 8-19-69, Cl. 101-96.

Traber, Walter, to Geigy Chemical Corporation. Tetrahydro-1,3,5-thiadiazine-2-thiones. 3,475,422, 10-28-69, Cl. 260-243.

Trabilcy, William J. Electrical radiant heating system for fluid receiving conduit structures. 3,423,570, 1-21-69, Cl. 219-301.

Trabold, Andrew F.: *See—*
Manghirmalani, Arjan T.; Trabold, Andrew F.; and Figler, Robert H.,3,437,032.

Tracey, Burke A.; and Royston, John H., said Tracey assor to said Royston. Deceleration recorder and/or signaler. 3,438,048, 4-8-69, Cl. 346-7.

Tracey, George B., to Journapak Corporation, The, mesne. Journal lubricator for railway cars. 3,434,767, 3-25-69, Cl. 308-243.

Tracey, George B., to Journapak Corporation, mesne. Journal pad lubricator. 3,454,315, 7-8-69, Cl. 308-243.

Tracey, Victor Allen; and Raman, Rasipuram Subramanya Kalyana, to International Nickel Company, Inc., The. Method of sintering nickel-bronze articles. 3,453,103, 7-1-69, Cl. 75-201.

Tracey, Victor Allen: *See—*
Raman, Rasipuram Subramanya Kalyana; and Tracey, Victor Allen,3,451,809.

Trachtenberg, Isaac, to Texas Instruments, Incorporated. Method of making a fuel cell electrode. 3,471,338, 10-7-69, Cl. 136-120.

Trachtenberg, Isaac: *See—*
Cole, David F.; and Trachtenberg, Isaac,3,436,271.

Trachtenberg, Leonard; and Trachtenberg, Peter Warren. Insulated electrically heated bottle. 3,423,571, 1-21-69, Cl. 219-441.

Trachtenberg, Peter Warren: *See—*
Trachtenberg, Leonard; and Trachtenberg, Peter Warren,3,423,571.

Trachtenberg, Robert S., to Midland-Ross Corporation. Divided outlet box. 3,472,945, 10-14-69, Cl. 174-53.

Trachtenberg, Robert S.; and Kreuzer, Julius Earl, to Midland-Ross Corporation. Electric outlet box mounting. 3,428,284, 2-18-69, Cl. 248-216.

Tracor, Inc.: *See—*
Annand, Robert R.; and Hackerman, Norman, 3,466,188.
Johnston, Philip W., 3,486,813.
Payne, Jimmie S., Jr.; and Gardner, Pete D., 3,461,100.
Stone, Charles S., 3,432,759.
Stone, Charles S., 3,465,264.
Stone, Robert L., 3,456,490.

Tractel S.A.: *See—*
Desplats, Andre Emile Evariste; and Levardon, Raymond Daniel Maurice, 3,474,946.

Traction (Societe Anonyme): *See—*
Archer, David H.; Glasser, Albert D.; Sverdrup, Edward F.; and Taylor, Herbert L., 3,433,680.

Tracy, Bertrand P., Company: *See—*
Staub, Jennings M.; and MacPherson, Robert E., 3,463,026.

Tracy, Charles W., to International Enterprises, Inc. Universal roof bracket. 3,481,635, 12-2-69, Cl. 287-20.94

Tracy, Charles W.; and Coloney, Wayne H., to International Enterprises, Inc. Roof framing system. 3,423,898, 1-28-69, Cl. 52-713.

Tracy, David J., to GAF Corporation. Organic compositions stabilized against oxidation by means of aminobenzyl thioethers. 3,423,327, 1-21-69, Cl. 252-402.

Tracy, Harold James. Indicating device. 3,427,724, 2-18-69, Cl. 33-207.

Tracy, Herbert E., to Borg-Warner Corporation. Mechanical seal construction. 3,479,040, 11-18-69, Cl. 277-81.

Tracy, Herbert E., to Borg-Warner Corporation. Mechanical seal assembly with lubricating means. 3,486,760, 12-30-69, Cl. 277-74.

Tracy, James T.; Hulseberg, Paul J.; and Sadler, James E., to International Harvester Company. Cotton picker doffer. 3,422,607, 1-21-69, Cl. 56-41.

Tracy, Robert A.: *See—*
Murray, William D.; and Tracy, Robert A.,3,483,537.

Tracy, Thomas H. Mobile hydrotherapy equipment. 3,477,424, 11-11-69, Cl. 128-66.

Trafford, James E. Fuel conditioning system for internal combustion engines. 3,447,514, 6-3-69, Cl. 123-34.

Trafikaktiebolaget Grangesberg Oxelosund: *See—*
Bergstrom, Erik W.; and Borg, Nils Gunnar H., 3,435,648.

Trager, James G., Jr. Pack of cards for sentence building game. 3,482,333, 12-9-69, Cl. 35-35.

Tragert, William E., to General Electric Company. Electric storage cell. 3,432,349, 3-11-69, Cl. 136-6.

Tragert, William E.: *See—*
White, Donald W.; Tragert, William E.; and Rocco, William A.,3,432,352.

Trageser, James H., to Technology Incorporated. Mass flowmeter structure. 3,433,069, 3-18-69, Cl. 73-204.

Trailco Manufacturing & Sales Co.: *See—*
Campbell, Whittington A., 3,486,787.

Traina, Richard O., to Plessey Airborne Corporation, mesne. Multiple-mode solid-state time delay apparatus including charge-monitoring timing circuits. 3,441,810, 4-29-69, Cl. 317-142.

Traina, Richard O., to Plessey Airborne Corporation, mesne. Solid-state relay. 3,445,683, 5-20-69, Cl. 307-252.

Trainham, Thomas E., to Reynolds Metals Company. Apparatus for continuously autoclaving pouch constructions and the like. 3,481,691, 12-2-69, Cl. 21-94.

Trainor, Charles C., to Avnet, Inc., mesne. Tone control means for electric guitars and the like. 3,478,158, 11-11-69, Cl. 84-1.16
Trainor, Wilbur J.: *See—*
Martinek, Thomas W.; Haines, Robert M.; Weichman, Roger L.; and Trainor, Wilbur J.,3,476,687.
Traise, Thornton P.; Little, Randel Q.; and Watson, Roger W., to Standard Oil Company (Indiana). Lubricating oil additives. 3,442,808, 5-6-69, Cl. 252-49.6
Traise, Thornton P.; and Piasek, Edmund J., to Standard Oil Company (Indiana). Lube oil dispersants. 3,448,047, 6-3-69, Cl. 252-51.5
Trak Microwave Corporation: *See—*
Denison, James W., Jr., 3,425,111.
Gregory, Benjamin F.; and Weber, Russell A., 3,448,335.
Wilson, Charles B., 3,470,476.
Trak-Chief Manufacturing Proprietary Ltd.: *See—*
Yard, William J., 3,430,579.
Yard, William J., 3,451,349.
Yard, William J., 3,461,810.
Trakwork Equipment Company: *See—*
Bryan, John F., Jr., 3,427,990.
Trambouze, Pierre: *See—*
Buisson, Andre; Trambouze, Pierre; Van Landeghem, Hugo; and Rebeller, Michel,3,468,057.
Trambouze, Yves: *See—*
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves,3,444,098.
Bressat, Rene; De Calmes, Alain; Claudel, Bernard; and Trambouze, Yves,3,459,682.
Trammell, Earl M., Jr. Combination pull and locking assembly for automobile doors. 3,428,350, 2-18-69, Cl. 292-336.3
Trammell, Earl M., Jr. Internal combustion engine. 3,441,012, 4-29-69, Cl. 123-197.
Trammell, Earl M., Jr. Resilient bumper strip. 3,441,305, 4-29-69, Cl. 293-1.
Trammell, Earl M., Jr. Internal combustion engine. 3,482,561, 12-9-69, Cl. 123-197.
Trammell, James R., to United States of America, Air Force. Readout analyzer. 3,465,102, 9-2-69, Cl. 179-1.
Tramontini, Vernon N., to Stewart-Warner Corporation. Transition bar. 3,428,347, 2-18-69, Cl. 287-189.36
Tramontini, Vernon N., to Stewart-Warner Corporation. Method of making a cryogenic tank. 3,470,606, 10-7-69, Cl. 29-469.
Trampier, Charles Raymond, Jr.: *See—*
Heywood, Kenneth W.; and Trampier, Charles Raymond, Jr.,3,434,853.
Tramuta, Salvatore S.: *See—*
Folsom, Floyd P.; and Tramuta, Salvatore S.,3,460,611.
Trancoa Chemical Corporation: *See—*
Mayer, Simon Ernest, 3,444,100.
Tranc Company, The: *See—*
Berglund, Larry G.; and Novak, Robert P., 3,466,894.
Clausing, Dale R., 3,443,296.
Clausing, Dale R., 3,468,009.
Earhart, Walter, 3,485,443.
Johannsen, Robert A., 3,421,337.
Klouda, John F., 3,438,180.
Linnert, Peter J., 3,472,446.
McNabney, John C., 3,447,597.
McNabney, John C., 3,448,795.
Miner, Robert G., 3,462,965.
Miner, Robert G., 3,469,413.
Miner, Robert G., 3,479,837.
Petranek, David J., 3,455,118.
Schroder, Albert W.; and Miner, Robert G., 3,433,243.
Volk, Rodney H.; and Reiste, David J., 3,421,339.
Ware, Chester D., 3,467,178.
Yehle, Garald R., 3,469,622.
Tranin, Jean Pierre, to U.S. Philips Corporation. Apparatus for controlling the opening of a parachute. 3,447,157, 5-27-69, Cl. 343-702.
Trankner, Werner, to VEB Pentacon Dresden Kamera- und Kinowerke. Mirror reflex camera with internal photoelectric light meter. 3,464,337, 9-2-69, Cl. 95-42.
Trankner, Werner, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic camera. 3,464,339, 9-2-69, Cl. 95-42.
Trankner, Werner; and Jurenz, Rolf, to VEB Pentacon Dresden Kamera- und Kinowerke. Exposure measuring device in photographic mirror- reflex cameras. 3,465,660, 9-9-69, Cl. 95-42.
Trans Continental Electronics Corporation: *See—*
Rolfes, Hans, 3,457,540.
Trans-Continental Engineering Corporation: *See—*
Gigante, Claudio, 3,426,979.
Man, Henry H., 3,454,073.
Trans-Lux Corporation: *See—*
Holloman, Charles J., 3,482,344.
Trans-Meridian International, Inc.: *See—*
Stingl, Alfred LeRoy, 3,473,232.
Transco Products, Inc.: *See—*
Dowdall, Lester A.; and Deege, Walter, 3,474,359.
Transcontinental Gas Pipeline Corporation: *See—*
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander, 3,421,050.
Transeau, Sherman T. Cabana. 3,441,037, 4-29-69, Cl. 135-1.
Transicold Corporation: *See—*
Von Berg, Richard E., 3,421,340.
Transistor Automation Corporation: *See—*
Wiesler, Mordechai; and Goren, Avigdor, 3,446,065.
Transitron Electronic Corporation: *See—*
Navon, David H.; and Davis, Edwin S., 3,445,736.
Navon, David H.; and Bakalar, David, 3,461,436.
Transmarine Corporation: *See—*
Bayha, Jack E., 3,436,552.
Bayha, Jack E., 3,440,606.
Bayha, Jack E., 3,457,421.
Bayha, Jack E., 3,462,225.
Bayha, Jack E., 3,471,172.
Transmation, Inc.: *See—*
Beck, Frederic E.; and Garelick, Eli L., 3,486,127.
Transport Engineering, Inc.: *See—*
Gordon, Thomas J., 3,425,760.
Gordon, Thomas J., 3,436,134.
Trantanella, Frank M., to Wang Laboratories, Inc. Modular system design. 3,470,542, 9-30-69, Cl. 340-173.
Trantham, Joseph C.: *See—*
Dean, Maurice R.; and Trantham, Joseph C.,3,456,734.
Trapasso, Louis E., to Celanese Corporation. Art of producing dyeable acrylonitrile copolymer compositions and articles. 3,475,364, 10-28-69, Cl. 260-32.6
Trapp, Orlin D.; and Cannon, Don L., to Westinghouse Electric Corporation. Hermeticity test for packaged electrical components. 3,479,862, 11-25-69, Cl. 73-49.3
Trapp, Robert L., to Outboard Marine Corporation. Endless track vehicle. 3,446,303, 5-27-69, Cl. 180-9.5
Trappe, Gordon: *See—*
Chilvers, Kenneth William; and Trappe, Gordon,3,428,609.
Kerrigan, Vincent; Trappe, Gordon; and Williamson, William Ian,3,454,533.
Trasen, Ben; Weyand, John E.; and Rising, Donald B., to Millipore Corporation. Filter unit. 3,471,019, 10-7-69, Cl. 210-94.
Trask, Allen. Expansion valve for heat pump. 3,482,415, 12-9-69, Cl. 62-222.
Trask, Roland Pierce, II; Katz, Silas; and Walker, M. Lucius, Jr., to United States of America, Army. Laminar fluid NOR element. 3,478,764, 11-18-69, Cl. 137-81.5
Traub Company, The: *See—*
Christian, Rodney E.; and Taudvin, Peter C., 3,476,170.
Traub, Karl, to Siemens Aktiengesellschaft. Mechanical vibrator with electrostrictive excitation. 3,486,136, 12-23-69, Cl. 333-71.
Traube, Robert J.: *See—*
Boissevain, Mathew G.; and Traube, Robert J.,3,458,062.
Traulsen, Karl: *See—*
Heymer, Gero; Harnisch, Heinz; Hartlapp, Gerhard; and Traulsen, Karl,3,438,725.
Traumuller, Martin, to Domestic Lace Mfg., Inc. Warp knitting adjustment mechanism. 3,433,034, 3-18-69, Cl. 66-150.
Trautman, George H., Jr., to Niagara Machine & Tool Works. Level control for hydraulic press brakes and the like. 3,469,435, 9-30-69, Cl. 72-453.
Trautman, Jack C.; and Middleton, Frederic H., to Mayer, Oscar, & Co., Inc. Method and apparatus for separation of fatty tissue from animal skins. 3,487,094, 12-30-69, Cl. 260-412.6
Trautman, Jack C.: *See—*
Olson, Floyd C.; and Trautman, Jack C.,3,447,932.
Trautman, Oscar C.; and Taddeo, Clifford, F. Combined direct resistance heating and voltage cancellation system. 3,427,430, 2-11-69, Cl. 219-155.
Trautmann, Herbert L. Manually operated shearing apparatus. 3,424,046, 1-28-69, Cl. 83-545.
Trautmann, Paul R.: *See—*
Paine, Bud A.; and Trautmann, Paul R.,3,456,227.
Trautner, Kersten: *See—*
Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus,3,480,611.
Schundehutte, Karl-Heinz; and Trautner, Kersten,3,480,641.
Schundehutte, Karl-Heinz; Trautner, Kersten; Horstmann, Walter; and Jager, Horst,3,484,450.
Trautwein, Wolfgang, 50% to Tuck, James G. Watercraft. 3,483,844, 12-16-69, Cl. 115-70.
Trautzsch, Gottfried; and Bruggen, Kurt, to Licentia Patent-Verwaltungs-G.m.b.H. Aircraft landing gear wheel. 3,482,806, 12-9-69, Cl. 244-103.
Travenec, Igor, to Vyskumny ustav mechanizacie a automatizacie. Hydrodynamic generator. 3,465,710, 9-9-69, Cl. 116-137.
Traver, Darwin G.: *See—*
Coleman, Milton H.; and Traver, Darwin G.,3,422,888.
Coleman, Milton H.; Traver, Darwin G.; and Herb, Carl C.,3,452,667.

Traver, Darwin G., to Carrier Corporation. Transition elbow. 3,466,063, 99-69, Cl. 285-183.
Travers, Alphonso M. Golf putting target. 3,434,721, 3-25-69, Cl. 273-180.
Travers, Robert; and Jardine, Norman McL., to Imperial Chemical Industries of Australia and New Zealand Limited. Aqueous explosive composition containing a porous water insoluble synthetic organic polymeric cellular material. 3,457,126, 7-22-69, Cl. 149-2.
Traverso, John J., to Lilly, Eli, and Company. N-(2-Benzolylbenzene-sulfonyl)-acetamidines. 3,485,871, 12-23-69, Cl. 260-556.
Travis, Alfred; and Croft, Philip, to Mills, James, Limited, executors of. Apparatus for use in effecting controlled quenching of metal in bar form. 3,476,371, 11-4-69, Cl. 266-6.
Travis, Gale D.: *See*—
Roberts, Carleton W.; and Travis, Gale D.,3,422,117.
Roberts, Carleton W.; and Travis, Gale D.,3,440,248.
Roberts, Carleton W.; and Travis, Gale D.,3,452,045.
Travis, James C., to Lynch Corporation. Card feeder for wrapping machines. 3,438,837, 4-15-69, Cl. 156-585.
Travis, Lawrence R., to Electro Connective Systems, Inc. Flat cable process. 3,473,218, 10-21-69, Cl. 29-624.
Travis, Lawrence R., to Electro Connective Systems, Inc. Take-up mechanism for flat electrical cable. 3,474,188, 10-21-69, Cl. 174-135.
Travis Mills Corporation: *See*—
Bassist, Rudolph G., 3,464,236.
Travis, Roger E. Method of making a baby nipple valve. 3,443,000, 5-6-69, Cl. 264-154.
Travis, William J., to Sprague Electric Company. Direct coupled amplifier with negative feedback. 3,487,321, 12-30-69, Cl. 330-20.
Travlos, John A., to Cincinnati Butchers' Supply Company, The. Mold loader. 3,485,274, 12-23-69, Cl. 141-263.
Travnicek, Zdenek: *See*—
Krejci, Ota; Krejci, Danuse; Travnicek, Zdenek; and Dvorak, Jan,3,442,266.
Traxler, Peter E., to Pe Tel, Inc. Disconnect pick. 3,476,895, 11-4-69, Cl. 200-61.19
Trayer Products, Incorporated: *See*—
Fraboni, Henry J.; Mapes, Harold C.; and Mullin, Newell D., 3,438,647.
Treace, Harry T., to Richards Manufacturing Company, Inc., mesne. Bone plate. 3,463,148, 8-26-69, Cl. 128-92.
Treadway, Ronald L., to Motorola, Inc. High threshold diode transistor logic circuitry. 3,446,994, 5-27-69, Cl. 307-299.
Treadway, Ronald L.: *See*—
Priel, Ury; Seelbach, Walter C.; and Treadway, Ronald L.,3,440,449.
Treadwell, Peter A., to Haveg Industries, Inc. Valves. 3,463,451, 8-26-69, Cl. 251-315.
Trease, Ralph E., to Owens-Illinois, Inc. Electrostatic image developer powder composition. 3,427,258, 2-11-69, Cl. 252-500.
Treasure Salvors, Inc.: *See*—
Feild, Fay R., 3,443,207.
Treatch, James E.; and von Schwedler, Gerald C., to Motorola, Inc. Temperature compensation of electrical devices. 3,437,849, 4-8-69, Cl. 310-8.9
Treber, Willi O.: *See*—
Herr, Gerhard; and Treber, Willi O.,3,448,550.
Treber, Willy O.: *See*—
Herr, Gerhard; and Treber, Willy O.,3,487,420.
Trebes, Edward J., to Tennessee Corporation. Method for determining minor quantity of strong acid in major quantity of weak acid. 3,466,228, 9-9-69, Cl. 204-1.
Trebotich, Thomas Samuel; and Le Claire, Harry Edward. Apparatus for data scanning and programming. 3,476,917, 11-4-69, Cl. 235-61.7
Trecker, David J.: *See*—
Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E.,3,483,102.
Trecker, David J.; Henry, Joseph P.; and Brandon, Richard L., to Union Carbide Corporation. Cyclobutane derivatives. 3,453,197, 7-1-69, Cl. 204-162.
Trecker, William E.: *See*—
Newman, Douglas A.; and Trecker, William E.,3,472,162.
Newman, Douglas A.; and Trecker, William E.,3,472,164.
Tredennick, William T.; and Miller, James Richard, to Resco Products, Inc. Refractory floor construction. 3,429,487, 2-25-69, Cl. 222-566.
Treder, Charles F.: *See*—
Orth, Charles D.; and Treder, Charles F.,3,450,345.
Treff, Ernest H., to Smithe, F. L., Machine Co., Inc. High speed stationary pin aligner. 3,424,454, 1-28-69, Cl. 271-53.
Treff, Ernest H., to Harris-Intertype Corporation. Web tension control mechanism. 3,460,729, 8-12-69, Cl. 226-42.
Treffner, Walter S.: *See*—
Farrington, Grant M., Jr.; Stein, Joseph L.; and Treffner, Walter S.,3,425,852.
Trefileries Leon Bekaert, PVBA: *See*—
Peene, Guido J., 3,477,653.
Thomas, Robert Albert, 3,450,387.
Vansteenkiste, Philip, 3,449,821.
Verstraete, Marcel, 3,450,360.
Verstraete, Marcel, 3,473,652.
Trefimetaux: *See*—
Terramorsi, Guy, 3,466,642.
Trefz, Otto F. Extensible escape ladder. 3,485,322, 12-23-69, Cl. 182-189.
Tregaskiss, William E., to Savair Products Co. Fluid pressure operated multiple piston work devices of the non-rotating piston type. 3,457,841, 7-29-69, Cl. 92-128.
Tregay, John L.; and Graff, William P., to Addressograph-Multigraph Corporation. Photocopying apparatus. 3,437,410, 4-8-69, Cl. 355-57.
Tregay, John L.; and Helland, Kristian L., to Addressograph-Multigraph Corporation. Photoelectrostatic copying machine. 3,462,217, 8-19-69, Cl. 355-14.
Tregay, John L.; and Martin, Edward J., Jr., to Addressograph-Multigraph Corporation. Photoelectrostatic copying machine. 3,476,382, 11-4-69, Cl. 271-52.
Tregubenko, Nicolas, to Allied Pacific Manufacturing Company. Apparatus for the programmed insertion of terminals. 3,449,813, 6-17-69, Cl. 29-203.
Treharne, Richard E., Jr., to Scovill Manufacturing Company. One-shot valve assembly for aerosol container. 3,441,177, 4-29-69, Cl. 222-82.
Treharne, Richard W., to Kettering Scientific Research, Inc., mesne. Radiant energy measuring instrument. 3,444,739, 5-20-69, Cl. 73-355.
Trehub, Arnold. Automatic recognition system using constant intensity image beam. 3,449,585, 6-10-69, Cl. 250-219.
Treibacher Chemische Werke Aktiengesellschaft: *See*—
Smetana, Otto; and Hafner, Leo, 3,486,843.
Treiber, Fritz F., to Corley-Miller, Inc. Automatic wrapping machine. 3,429,098, 2-25-69, Cl. 53-77.
Treiber, Fritz F., to Corley-Miller, Inc. Film feed mechanism for package wrapping machines and the like. 3,478,486, 11-18-69, Cl. 53-64.
Treiber, Richard W.: *See*—
Pabich, Richard W.; and Treiber, Richard W.,3,429,013.
Treichel, Richard: *See*—
Nelson, Roger J.; and Treichel, Richard,3,455,397.
Nelson, Roger John; and Treichel, Richard,3,452,616.
Trekell, Harold E.; and Warburton, Joe A., to General Electric Company. Liquid level sensor adapted for use in hydrocarbon fuels. 3,448,617, 6-10-69, Cl. 73-313.
Trelc, William F.; and Petri, Albert J., to McGraw-Edison Company. Upholstery cleaner. 3,443,272, 5-13-69, Cl. 15-29.
Trelleborgs Gumnufabriks Aktiebolag: *See*—
Kuper, Walter, 3,428,184.
Trelut, Jean Marie: *See*—
De Buck, Jean Jacques Rene Paul; and Trelut, Jean Marie,3,483,524.
Tremain, David L., to Tait Manufacturing Company, The. Submersible pump. 3,437,045, 4-8-69, Cl. 103-87.
Tremain, David L.; and Lotspih, Anthony J., to Century Electric Motor Company, mesne. Submersible pump for a well casing. 3,437,046, 4-8-69, Cl. 103-87.
Trembath, Timothy Richard: *See*—
Freidmann, Eric Helmuth; Trembath, Timothy Richard; Cancrinus, Hendrik; and Fourie, Philip John,3,425,298.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John,3,425,297.
Friedmann, Eric Helmuth; Cancrinus, Hendrik; Trembath, Timothy Richard; and Fourie, Philip John,3,449,983.
Tremblay, Albert F., to Kent-Owens Machine Company. Tube reducing machine. 3,478,557, 11-18-69, Cl. 72-189.
Tremblay, Bruno: *See*—
Sepall, Ola; Stanners, Leonard N.; and Tremblay, Bruno,3,483,078.
Tremblay, Frank J.: *See*—
Flood, Harold W.; Kusik, Charles L.; and Tremblay, Frank J.,3,440,009.
Trembley, John R.: *See*—
Hull, John L.; Dovey, Kenneth D.; La Rose, William T., Sr.; and Trembley, John R.,3,473,196.
Tremco Manufacturing Company, The: *See*—
Hann, Gordon E., 3,434,903.
Lake, Clarence L.; Box, James A.; and Golla, William J., 3,427,776.
Lake, Clarence L.; Barron, Larry R.; and Faud, Robert H., 3,445,436.
Trementozzi, Quirino A., to Monsanto Company. Pakaging films with improved properties. 3,451,538, 6-24-69, Cl. 206-46.
Trementozzi, Quirino A.; Geymer, Douglas O.; Boyd, Thomas; and Dietrich, Heinz J., to Monsanto Company. Delta titanium trichloride. 3,482,935, 12-9-69, Cl. 23-87.
Trementozzi, Quirino A.: *See*—
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,048.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,049.

Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,050.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,474,051.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A.,3,480,569.
Tremolada, Gustavo, to Tonolli, A. & C., S.p.A. Process for the separation of the active material from the remaining material constituting storage batteries. 3,456,886, 7-22-69, Cl. 241-5.
Tremont, Peter L.; and Jackson, Peter F., to Monsanto Company. Water conditioning system. 3,482,697, 12-9-69, Cl. 210-96.
Trench, William H.: *See*—
Tingquist, Stanley C.; and Trench, William H.,3,429,358.
Trendowski, Thomas William, to General Electric Company. Tire stud. 3,426,822, 2-11-69, Cl. 152-210.
Trenerry, James A.: *See*—
Seaman, Gary G.; and Trenerry, James A.,3,431,387.
Trenkler, Werner: *See*—
Schroeder, Gerhard Albert Richard; Trenkler, Werner; and Tomala, Hans,3,476,437.
Trenkowitz, Gerhard, to Aktiengesellschaft Brown, Boveri & Cie. Lubricating and cooling system for electric motors. 3,422,635, 1-21-69, Cl. 62-469.
Trent, Edward Moor, to Wickman Wimet Limited. Tools and tool tips of sintered hard metal. 3,482,295, 12-9-69, Cl. 29-95.
Trent, James A.; Kubitschek, Hans E.; Hook, Harvey E.; and Caudel, Fred H., to Shell Oil Company. Portable flooring spreader. 3,453,988, 7-8-69, Cl. 118-103.
Trent, John Scott. Shirt retainer. 3,452,401, 7-1-69, Cl. 24-73.
Trent, John Scott. Safety container for toxic substances. 3,477,775, 11-11-69, Cl. 312-209.
Trent, Joseph E.: *See*—
Rosenberg, Harold J.; Sorrells, John R.; and Trent, Joseph E.,3,420,368.
Trent, Lamartine C., to North American Rockwell Corporation. Deflecting beam monorail switch. 3,472,176, 10-14-69, Cl. 104-130.
Trent, Lamartine C., to North American Rockwell Corporation. Rapid transit system. 3,477,389, 11-11-69, Cl. 104-118.
Trent, Stanley G. Horizontal bar and spring-biassed exercising apparatus. 3,457,786, 7-29-69, Cl. 73-380.
Trepa, Robert F.: *See*—
Sepkoski, Joseph J.; Trepa, Robert F.; and Degginger, Edward R.,3,464,935.
Trepainer, Donald L., to Dow Chemical Company, The. Orthoester process for producing 1,4,5,6-tetrahydro- as-triazine. 3,463,777, 8-26-69, Cl. 260-248.
Trepanier, Donald L., to Dow Chemical Company, The. Preparation of 2-substituted-5,6-dihydro-4H- 1,3,4-oxadiazines. 3,420,825, 1-7-69, Cl. 260-244.
Trepanier, Donald L., to Dow Chemical Company, The. 2,4,6-(Substituted)-1,3,4-oxadiazines and method for their preparation. 3,420,826, 1-7-69, Cl. 260-244.
Trepanier, Donald L., to Dow Chemical Company, The. 3-Phenyl-4-dialkylaminoalkyl-pyrazol-5-ol compounds. 3,423,424, 1-21-69, Cl. 260-310.
Trepanier, Donald L., to Dow Chemical Company,The. 2-Methyl-2-(β-chloroethyl) acid hydrazide hydrochlorides. 3,428,678, 2-18-69, Cl. 260-558.
Trepanier, Donald L., to Dow Chemical Company, The. 2-Amino-5,6-dihydro-4H-1,3,4-oxadiazines. 3,432,497, 3-11-69, Cl. 260-244.
Trepanier, Donald L., to Dow Chemical Company, The. Alpha-benzoyl-omega-dialkylamino acid esters. 3,463,807, 8-26-69, Cl. 260-471.
Trepanier, Donald L., to Dow Chemical Company, The. 3-Benzhydryl-as-triazines. 3,471,485, 10-7-69, Cl. 260-248.
Trepanier, Donald L., to Dow Chemical Company, The. 3-Aralkyl-as-triazines. 3,471,486, 10-7-69, Cl. 260-248.
Trepanier, Donald L., to Dow Chemical Company, The. 3-[(Halophenoxy)methyl]-as-triazine. 3,471,487, 10-7-69, Cl. 260-248.
Trepanier, Donald L., to Dow Chemical Company, The. Substituted as-triazinylakylindoles. 3,471,488, 10-7-69, Cl. 260-248.
Trepanier, Donald L., to Dow Chemical Company, The. Substituted hydroxyethyl acid hydrazides. 3,481,972, 12-2-69, Cl. 260-468.
Trepanier, Donald L.; and Harris, Guy H., to Dow Chemical Company, The. Production of 3,4,5,6-tetrahydro-4,5,6- substituted-2H-1,3,4-oxadiazin-2-ones. 3,428,632, 2-18-69, Cl. 260-244.
Trepanier, Donald L.; and Harris, Guy H., to Dow Chemical Company, The. Substituted 1,4,5,6-tetrahydro-as-triazines and a method for their production. 3,428,635, 2-18-69, Cl. 260-248.
Trepanier, Donald L.; and Krieger, Paul E., to Dow Chemical Company, The. Basically substituted 1,3,4-thiadiazines and methods of preparation thereof. 3,428,631, 2-18-69, Cl. 260-243.
Trepaud, Georges Jean Henri. Tanks for liquefied gases. 3,425,234, 2-4-69, Cl. 62-45.
Trepka, William J., to Phillips Petroleum Company. Organolithium polymerization initiator. 3,439,049, 4-15-69, Cl. 260-624.
Trepka, William J.; and Sonnenfeld, Richard J., to Phillips Petroleum Company. Polymerization. 3,450,685, 6-17-69, Cl. 260-94.2
Trepka, William J.: *See*—
Uraneck, Carl A.; and Trepka, William J.,3,435,011.
Treppachuh, Helmut; and Baltes, Emil, to Stahlwerke Sudwestfalen Aktiengesellschaft. Method for division of billets. 3,438,294, 4-15-69, Cl. 83-15.
Treppschuh, Helmut: *See*—
Randak, Alfred; Eberbach, Reinhold; Rinker, Heinz; and Treppschuh, Helmut,3,426,833.
Treptow, Arnold W.: *See*—
Di Marcello, Frank V.; and Treptow, Arnold W.,3,470,002.
Trescher, Viktor: *See*—
Schade, Franz; Komarek, Ernst; and Trescher, Viktor,3,429,649.
Treseder, Richard S.: *See*—
MacNab, Adrian J.; and Treseder, Richard S.,3,432,254.
Swanson, Theodore M.; Calhoun, George H.; Bingman, William E.; and Treseder, Richard S.,3,462,239.
Tressler, Charles Jay, Jr.: *See*—
Hollis, Frank, Jr.; and Tressler, Charles Jay, Jr.,3,483,001.
Tressler, Donald K.: *See*—
Hale, James F.; and Tressler, Donald K.,3,470,000.
Trethewey, William C., to Owens-Corning Fiberglas Corporation. Frequency measuring apparatus. 3,467,325, 9-16-69, Cl. 242-18.
Trethewey, William C., to Owens-Corning Fiberglas Corporation. Process and apparatus for controlling the flow of molten glass. 3,476,538, 11-4-69, Cl. 65-29.
Trethewey, William C., to Owens-Corning Fiberglas Corporation. Method and apparatus for operating a glass melting furnace. 3,482,956, 12-9-69, Cl. 65-136.
Tretow, Andre. Pocketed elliptical playing areas with common focal point. 3,463,489, 8-26-69, Cl. 273-9.
Tretter, James R.: *See*—
Bloom, Barry M.; and Tretter, James R.,3,420,851.
Treu, James Frederick; and Whitenstall, Joseph Edric, to Imperial Chemical Industries, Limited. Granulation of thermoplastic materials. 3,436,449, 4-1-69, Cl. 264-142.
Trevathan, Walter Corporation: *See*—
Trevathan, Walter E., 3,420,124.
Trevathan, Walter E., to Trevathan, Walter Corporation. Pipe fitting machine. 3,420,124, 1-7-69, Cl. 77-5.
Treves, David, to Ampex Corporation. Spatial filtering noise reduction scheme for a magnetooptic readout system. 3,480,933, 11-25-69, Cl. 340-174.1
Treves, David: *See*—
Shtikman, Shamuel; and Treves, David,3,452,259.
Trevillyan, Alvin E.; and Sanford, Robert A., to Sinclair Research, Inc. Olefins from paraffins and carbonyl sulfide. 3,429,943, 2-25-69, Cl. 260-683.3
Trevisi, Silvio: *See*—
Melacini, Paolo; and Trevisi, Silvio,3,440,148.
Trevisin, Rudolph F.: *See*—
Da Rold, James J.; and Trevisin, Rudolph F.,3,463,919.
Trevorrow, La Verne E.; Gerding, Thomas J.; and Steindler, Martin J., to United States of America, Atomic Energy Commission. Neptunium separation from uranium. 3,482,949, 12-9-69, Cl. 23-326.
Trevorrow, La Verne E.: *See*—
Riha, James G.; Trevorrow, La Verne E.; and Steindler, Martin J.,3,458,291.
Trevoy, Donald J., to Eastman Kodak Company. Supports for radiation-sensitive elements and improved elements comprising such supports. 3,428,451, 2-18-69, Cl. 96-1.
Trewhella, Stephen W.: *See*—
Scott, Arthur L.; and Trewhella, Stephen W.,3,442,738.
Trexler, Joseph E., Jr.: *See*—
Smith, Benjamin T.; Ross, Julian P., Jr.; and Trexler, Joseph E., Jr.,3,429,553.
Trezain, Claude; and Cosnard, Jean Claude, to Compagnie de Saint-Gobain. Stabilizing keratinic fibers through treatment with substantially neutral solutions of alkali metal salts of dichlorocyanuric acid. 3,423,165, 1-21-69, Cl. 8-127.6
Trezsin, Claude; and Cosnard, Jean Claude, to Compagnie de Saint-Gobain. Continuous process of shrinkproofing wool with alkali metal salts of dichlorisocyanuric acid. 3,423,164, 1-21-69, Cl. 8-127.6
TRG, Incorporated: *See*—
Walter, William T., 3,484,720.
Tri W-G, Inc.: *See*—
Wieland, Roman G., 3,467,971.
Tri-Bros. Chemical Corporation: *See*—
Boiko, Marvin M.; and Schneider, Carl H., 3,424,688.
Tri-Matic Inc.: *See*—
Purtell, Rufus J., 3,444,941.
Tri-O Dynamics, Inc.: *See*—
Corwin, Earl L., 3,421,999.
Tri-Point Industries, Inc.: *See*—
Mulay, Salvatore S., 3,469,848.
Tri-Sciences Industries, Inc.: *See*—
Eannarino, Joseph M.; and Granieri, Michael S., Jr., 3,435,613.
Tri-State Oil Tool Industries, Inc.: *See*—
Timmons, Archie Durwood, 3,422,524.
Timmons, Archie Durwood, 3,434,191.

Tri-State Products, Inc.: *See—*
Rutledge, Ralph Martin; Henry, Robert L.; and Williams, William Albert, 3,442,521.
Tri-Tech, Inc.: *See—*
Geremia, Leo Francis; and Haydon, Arthur W., 3,427,420.
Haydon, Arthur W.; and Ives, Milton N., 3,427,574.
Haydon, Arthur W.; Herbert, Edward, III.; and Riggs, William D., 3,469,132.
Herbert, Edward, III, 3,473,069.
Tri-Wall Containers, Inc.: *See—*
Wolf, Murray, 3,475,199.
Triangle Business Machines, Inc.: *See—*
Burton, Val, 3,456,073.
Triangle Package Machinery Company: *See—*
Vilen, Erik O., 3,486,294.
Trias, John A.: *See—*
Schimitschek, Erhard J.; Nehrich, Richard B., Jr.; and Trias, John A.,3,450,641.
Triax Company, The: *See—*
Alstedt, William A.; and Atwater, Wayne G., 3,445,010.
Alstedt, William A., 3,486,653.
Armington, Raymond Q.; and Atwater, Wayne G., 3,485,389.
Atwater, Wayne G., 3,485,390.
Chasar, Anthony R., 3,432,056.
Ferrari, Roy W., 3,450,276.
Krusinski, Joseph, 3,432,046.
Lemelson, Jerome H., 3,474,919.
Lemelson, Jerome H., 3,486,640.
Saul, Sanford, 3,424,322.
Saul, Sanford, 3,455,468.
Saul, Sanford, 3,480,162.
Tribble, Talmadge B.; and Rondenet, Eugene L., to Flavor Corporation of America. Stabilized fatty product and method of producing same. 3,444,218, 5-13-69, Cl. 260-398.5
Tribe, Norman G. Conveyor system for moving solids over long distances. 3,443,677, 5-13-69, Cl. 198-184.
Trible, Clayton J.; and Fletcher, William A., to General Motors Corporation. Electrocrosion apparatus. 3,456,088, 7-15-69, Cl. 219-69.
Triboulet Bros.: *See—*
Triboulet, Raymond E., 3,425,605.
Triboulet, Raymond E., to Triboulet Bros. Tire carrier. 3,425,605, 2-4-69, Cl. 224-42.06
Trice, James Rufus, Jr. Powered football blocking machine. 3,458,192, 7-29-69, Cl. 273-55.
Trick, Robert E., to Webster Electric Company, Inc. Vane pump. 3,451,344, 6-24-69, Cl. 103-120.
Trickett, Terrance; Zepp, Donald J.; Horne, Benjamin; and Brill, Thomas, to Honeywell Inc. Decoding arrangement. 3,445,635, 5-20-69, Cl. 235-61.11
Trickey, Elwood Bruce, to Geigy Chemical Corporation. Continuous desublimation apparatus. 3,485,589, 12-23-69, Cl. 23-264.
Trico Products Corporation: *See—*
Bitzer, Martin; and von Langendorff, Vitmar, 3,428,994.
Bitzer, Martin; and Deibel, Raymond A., 3,470,915.
Carpenter, Peter John; and Brett, John Howard, 3,428,991.
D'Alba, Anthony R., 3,478,648.
Deibel, Raymond A.; and Andrycha, Joseph J., 3,437,014.
Deibel, Raymond A.; and Riester, William C., 3,439,580.
Deibel, Raymond A.; Riester, William C.; and Roberts, Hobart V., Jr., 3,466,905.
Hambly, Wesley G.; and von Langendorff, Vitmar, 3,433,513.
Riester, William C., 3,427,676.
Riester, William C.; and Graczyk, Bronislaus S., 3,469,863.
Scinta, Anthony C., 3,452,384.
Tridair Industries: *See—*
Borden, John R., 3,424,331.
Borden, John R., 3,485,406.
Boyd, Thomas R.; Cosenza, Frank J.; and Yamamoto, Albert K., 3,477,333.
Brenia, Paul S., 3,446,462.
DePew, Chester C., 3,476,285.
Jensen, Richard H.; and Nordstrom, Arnold B., 3,480,239.
Prete, Ernest, Jr., 3,439,390.
Tridan Tool & Machine, Inc.: *See—*
Ames, Ward A., 3,454,205.
Tridgell, Cyril W., to Power Jacks Limited. Devices for supporting workpieces. 3,421,750, 1-14-69, Cl. 269-20.
Tridon, Max: *See—*
Marchal, Germain; and Tridon, Max,3,446,431.
Triebold, Karl-Friedrich: *See—*
Ziehm, Gunter; Triebold, Karl-Friedrich; Schief, Alfred; and Leisterer, Reinhard W.,3,464,056.
Triebwasser, Sol, to International Business Machines Corporation. Photosensitive insulated gate field effect transistor. 3,459,944, 8-5-69, Cl. 250-211.
Trier, Louis J.: *See—*
Satchell, Fred E.; Rytina, Anton W.; and Trier, Louis J.,3,477,721.
Trierer Walzwerk AG: *See—*
Danzer, Josef Helmut, 3,447,207.
Triesch, Josef, to Maschinenfabrik Sack G.m.b.H. Filtering apparatus. 3,443,690, 5-13-69, Cl. 210-95.
Trieule, Andre: *See—*
Portal, Pierre; and Trieule, Andre,3,436,948.
Trifunovic, Alexander L.; Hodges, James R.; and Shick, Richard L., to Bancroft, Joseph, & Sons Co. Mechanical treatment of materials for longitudinally compressing the same. 3,452,409, 7-1-69, Cl. 26-18.6
Triggs, Charles W.: *See—*
Silverman, Allyn M.; and Triggs, Charles W.,3,446,127.
Triggs, Charles W., to Polaroid Corporation. Photographic apparatus. 3,438,698, 4-15-69, Cl. 350-250.
Triggs, Leonard E.; and Hedges, Robert B., to Combustion Engineering, Inc. Center support marine boiler with isolated reheater. 3,435,805, 4-1-69, Cl. 122-1.
Triglia, Benito. Snow chains and their carriers. 3,481,384, 12-2-69, Cl. 152-233.
Trigon, Roland, to CSF-Compagnie Generale de Telegraphie Sans Fil. Electronic scanning antennas. 3,478,358, 11-11-69, Cl. 343-100.
Trihey, John Massey, to Vulcan Australia Limited. Flexible ducting. 3,435,852, 4-1-69, Cl. 138-122.
Triller, Adolf: *See—*
Piepenbrink, Winfried; and Triller, Adolf,3,474,254.
Trima AB: *See—*
Ahlenius, Gosta, 3,438,307.
Trimarke, Carl Robert: *See—*
Mayland, Bertrand J.; Trimarke, Carl Robert; Harvin, Richard L.; and Brandon, Charles S.,3,477,832.
Trimbach, Honore; and Dumont, Pierre, to Potasse & Engrais Chimiques. Process improvements in the manufacture of complex fertilizers. 3,431,098, 3-4-69, Cl. 71-43.
Trimble, Cebern B., to National Cash Register Company, The. Character recognition electrical de-coder system. 3,439,337, 4-15-69, Cl. 340-146.3
Trimble, Cebern B.; Mo, Frank S. C.; and Combs, Ollah, to National Cash Register Company, The. Random access magnetic disc storage device with peripheral bearing means. 3,478,341, 11-11-69, Cl. 340-174.1
Trimble, Charles H., to Western Electric Company, Incorporated. Method of crimping a sleeve connector. 3,432,924, 3-18-69, Cl. 29-628.
Trimble, Charles R., to Hewlett-Packard Company. Signal-to-noise ratio enhancement methods and means. 3,446,949, 5-27-69, Cl. 235-152.
Trimble, Charles R., to Hewlett-Packard Company. Extended bandwidth signal-to-noise ratio enhancement methods and means. 3,484,591, 12-16-69, Cl. 235-152.
Trimble, David C., to Hercules Incorporated, mesne. Foamed plastic hinge and its manufacture. 3,447,199, 6-3-69, Cl. 16-150.
Trimble, Donald D., to Sherman Car Wash Equipment Company. Antenna guard. 3,442,476, 5-6-69, Cl. 248-43.
Trimble, Glenn A.: *See—*
Carlson, Robert M.; Jasorka, Larry P.; Mulconrey, John F.; and Trimble, Glenn A.,3,458,931.
Trimble, Melvin B.; and Koch, James H., to National Lead Company. Method of forming undercuts in die castings. 3,461,945, 8-19-69, Cl. 164-112.
Trimble, Philip K., to General Motors Corporation. Balancing system. 3,466,933, 9-16-69, Cl. 73-462.
Trimble, Vernon F. Practice putting cup. 3,451,682, 6-24-69, Cl. 273-176.
Trimmer, James E. Reinforcement for concrete wall form connectors. 3,447,771, 6-3-69, Cl. 249-192.
Trimmer, Robert W.: *See—*
Smith, Reynold B.; and Trimmer, Robert W.,3,478,681.
Trinca, Frederick. Automobile door locks. 3,474,648, 10-28-69, Cl. 70-181.
Tringale, Joseph G.: *See—*
Berberian, John A.; and Tringale, Joseph G.,3,456,856.
Tringali, Alfred M.; Lynch, John E.; and Friedman, Morton, to Inmont Corporation. Copolymers of epoxy resins and alkoxymethyl substituted polyamides. 3,475,367, 10-28-69, Cl. 260-33.2
Trio Corporation: *See—*
Aoyama, Hiroshi, 3,467,870.
Kasuga, Jiro; and Shwgeyama, Shogo, 3,467,872.
Trio Fabrikker A/S De Forenede Norske Laase-Og Beslagfabriker: *See—*
Eriksen, Jan Bergh, 3,451,191.
Trio Manufacturing Company: *See—*
Wade, Jesse L., 3,426,732.
Triple D Industries, Inc.: *See—*
Dean, Duff L., 3,433,050.
Dean, Duff L., 3,455,269.
Triple H Transmission Corporation: *See—*
Tauscher, Henry, 3,420,113.
Triplett, Lee. Structural adhering construction. 3,429,506, 2-25-69, Cl. 238-371.

Triplett, Robert D., to Fedders Corporation, mesne. Static dry control for clothes dryers. 3,483,632, 12-16-69, Cl. 34-133.
Triplett, Robert D.; Buck, Leo V.; and Laue, Terry J., to Fedders Corporation, mesne. Drive system for clothes dryers. 3,447,248, 6-3-69, Cl. 34-139.
Triplett, Vesta L. Diaper changing table. 3,462,773, 8-26-69, Cl. 5-111.
Triplett, William C., to Chevron Research Company. Method for drilling and working in offshore wells. 3,424,241, 1-28-69, Cl. 166-0.5
Triplett, William C., to Chevron Research Company. Method and apparatus for drilling offshore wells. 3,424,242, 1-28-69, Cl. 166-0.6
Triplett, William C., to Chevron Research Company. Method for drilling and working in offshore wells. 3,424,253, 1-28-69, Cl. 175-7.
Triplex Safety Glass Company Limited: *See—*
Brittan, Kenneth Walter, 3,440,408.
Pionke, George, 3,448,734.
Powell, John Ernest, 3,430,328.
Tripodi, Joseph: *See—*
Benoit, Roland A.; and Tripodi, Joseph,3,478,372.
Tripp, Arthur Mendell. Animated fish lure. 3,457,667, 7-29-69, Cl. 43-42.02
Tripp, Bert E.: *See—*
Welch, Walter J.; and Tripp, Bert E.,3,420,666.
Tripp, Guy H. Hydraulic transmission. 3,479,923, 11-25-69, Cl. 91-97.
Tripp, Robert W., to Inductosyn Corporation. Spline interpolator with interpolating potentiometers. 3,423,656, 1-21-69, Cl. 318-18.
Trippe, Walter D., to Martin-Marietta Corporation. Leading edge gating technique for pulse receiver. 3,432,757, 3-11-69, Cl. 325-322.
Tripplehorn, James C. Method of mounting well equipment. 3,438,404, 4-15-69, Cl. 140-93.
Trischberger, Karl. Moisture content sensing probe including wiper means for continuous wiping of test material. 3,467,860, 9-16-69, Cl. 324-61.
Trischler, Floyd D., to Whittaker Corporation. Fluorohydroxy ethers. 3,452,103, 6-24-69, Cl. 260-615.
Trischler, Floyd D., to Whittaker Corporation. Polyurethanes from fluoroalkyl propyleneglycol polyethers. 3,463,762, 8-26-69, Cl. 260-77.5
Trischler, Floyd D., to Whittaker Corporation. Fluorine-containing polyurethane. 3,475,384, 10-28-69, Cl. 260-77.5
Trischler, Floyd D., to Whittaker Corporation. 1,5-Dichloro-2,3,3,3,4,4-hexaflouropentane. 3,476,819, 11-4-69, Cl. 260-653.
Trischler, Floyd D.; and Hollander, Jerome, to Whittaker Corporation. Polyurethanes of fluorine containing polycarbonates. 3,463,761, 8-26-69, Cl. 260-77.5
Trissell, William O. Hairpiece and method of making same. 3,483,875, 12-16-69, Cl. 132-5.
Tritt, Paul G., to Goodrich, B. F., Company, The. Axially collapsible fastener. 3,443,473, 5-13-69, Cl. 85-70.
Trivelpiece, Alvin W.: *See—*
Feinstein, Joseph; Jory, Howard R.; and Trivelpiece, Alvin W.,3,450,931.
Jory, Howard R.; and Trivelpiece, Alvin W.,3,463,959.
Trivisonno, Nicholas M.: *See—*
Mehrbrodt, Alfonso W.; and Trivisonno, Nicholas M.,3,443,424.
Trodglen, James E., Jr. Internal combustion engine powered flying toys. 3,477,168, 11-11-69, Cl. 46-75.
Trodglen, James Edward, Jr. Drinking devices. 3,424,347, 1-28-69, Cl. 222-88.
Troeger, Henry, to Bendix Corporation, The. Power amplifier torque responsive disconnect. 3,465,859, 9-9-69, Cl. 192-56.
Troeger, Henry, to Bendix Corporation, The. Power amplifier variable speed servo- mechanism control. 3,472,091, 10-14-69, Cl. 74-388.
Troell, Peter T.: *See—*
Renkey, Albert L.; and Troell, Peter T.,3,427,390.
Troemel, Clarence P.; and Weber, Edward H., Jr., to Bell Telephone Laboratories, Incorporated. Temperature measuring apparatus using semiconductor junction. 3,420,104, 1-7-69, Cl. 73-362.
Troemel, Gerhard; and Heintze, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Embossed polyacrylonitrile fiber paper. 3,486,970, 12-30-69, Cl. 162-157.
Trofimenko, Swiatoslaw, du Pont de Nemours, E. I., and Company. 3a,6a-Diazapentalenes and method of preparing the same. 3,431,275, 3-4-69, Cl. 260-310.
Trogdon, Thomas; and Fultz, Russell E., to Dayco Corporation. Method of manufacturing unitary foam rubber articles. 3,423,490, 1-21-69, Cl. 264-46.
Trogdon, Thomas: *See—*
Smith, Howard S.; Trogdon, Thomas; and Holt, Thomas C.,3,457,201.
Troia, Dominic T. Film cleaning device. 3,470,576, 10-7-69, Cl. 15-308.
Troiani, Nicola: *See—*
Losco, Giuseppe; Rossi, Giorgio; Troiani, Nicola; and Santi, Romano,3,439,070.
Troike, Paul E., to Aro Corporation, The. Power tool adjustment device. 3,451,490, 6-24-69, Cl. 173-31.
Trojan Luggage Company, The: *See—*
Brody, Leo L.; and Atkinson, Wallace E., 3,464,240.
Trojan Manufacturing Company, Inc.: *See—*
Caskey, Elmer L., 3,481,226.
Trojan Powder Company: *See—*
Kern, Forest L.; Schwoyer, William L.; and Dowling, Thomas P., 3,431,851.
Troland, Edwin Parker; and Nelson, George L., to Bird Machine Company. Viscosity sensing means and related systems. 3,473,367, 10-21-69, Cl. 73-54.
Troll, John H.; and Alpern, Alan N. Electrostatically charged tobacco smoke filter. 3,463,168, 8-26-69, Cl. 131-262.
Troller, Theodor H. Pitch adjustable axial flow blower. 3,456,872, 7-22-69, Cl. 230-114.
Trollope, William G. A., to Canadian Ingersoll-Rand Company Limited. Current limit chairing system. 3,477,548, 11-11-69, Cl. 187-29.
Trombetta, Carlo, to Olivetti, Ing. C., & C., S.p.A. Photocopying machine. 3,463,584, 8-26-69, Cl. 355-3.
Trombley, Bertrand N.: *See—*
Trombley, Edgar F.; and Trombley, Bertrand N.,3,456,864.
Trombley, Edgar F.; and Trombley, Bertrand N., to Dow Chemical Company, The. Disposable cups and handles. 3,456,864, 7-22-69, Cl. 229-52.
Trombley, Robert C., to Motorola, Inc. Semiconductor lead assemblies. 3,441,657, 4-29-69, Cl. 174-52.
Tromel, Frederic C., to Alco Products, Inc. Composite pistons. 3,465,651, 9-9-69, Cl. 92-86.
Trompier, Albert: *See—*
Lorain, Roger; and Trompier, Albert,3,468,016.
Troncale, Joseph D., Sr. Electrically operated fluid control valve. 3,434,690, 3-25-69, Cl. 251-30.
Trone, Elmer: *See—*
Dimick, Keene P.; Hartmann, Charles H.; Oaks, Dudley M., Jr.; and Trone, Elmer,3,423,181.
Tronnier, Albrecht W.; Jeremias, Helmuth M.; and Gottesman, Arthur H., to Farrand Optical Co., Inc. Optical condenser system. 3,479,117, 11-18-69, Cl. 353-102.
Tronnier, Ernst: *See—*
Eggert, Joachim; Tronnier, Ernst; and Schuhmann, Paul,3,420,602.
Troope, Walter S.; and Knebel, Robert W., to Cluett Peabody & Co., Inc. Instrument for evaluating crease performance in flexible materials. 3,473,877, 10-21-69, Cl. 356-156.
Troponwerke Dinklage & Co.: *See—*
Boltze, Karl-Heinz; and Lorenz, Dietrich, 3,459,753.
Tropp, Karl: *See—*
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,432,642.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,435,754.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,435,755.
Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl,3,450,027.
Troscinski, Edwin S., to Nalco Chemical Company. Scale and corrosion control in cooling waters. 3,487,018, 12-30-69, Cl. 210-58.
Trost, George P., to Texas Instruments, Incorporated. Method of manufacturing a solder clad metal composite. 3,482,303, 12-9-69, Cl. 29-460.
Trost, Wayne C.; and Mahoney, Robert J., to Barber-Colman Company. Running thread waxer. 3,479,988, 11-25-69, Cl. 118-78.
Trostel, Albert, & Sons Co.: *See—*
Wooten, Forrest L., 3,459,015.
Trostrud, Arville T., Jr.: *See—*
Bible, Robert E.; McIntyre, Robert L.; Scott, William F.; and Trostrud, Arville T., Jr.,3,443,076.
Trotel, Jacques, to Compagnie Francaise Thomson-Houston-Hotchkiss- Brandt. Incrementally controllable-thrust propulsion device. 3,457,726, 7-29-69, Cl. 60-250.
Troth, Henry Mc Cardell, Jr., to Du Pont de Nemours, E. I., and Company. Preparation of nonwoven web structure. 3,477,103, 11-11-69, Cl. 19-163.
Troth, Henry McCardell, Jr., to Du Pont de Nemours, E. I., and Company. Filament deflecting apparatus. 3,460,731, 8-12-69, Cl. 226-97.
Trotscher, Otto, to Zeiss-Stiftung, Carl d/b/a Zeiss, Carl. Interpolation device. 3,465,331, 9-2-69, Cl. 340-347.
Trotscher, Otto: *See—*
Rantsch, Kurt; and Trotscher, Otto,3,441,350.
Trott, David H. Cap actuated pivoted outlet closure for a container. 3,446,406, 5-27-69, Cl. 222-507.
Trott, David H., to Courier Enterprises. Magnetic tape transducer. 3,462,055, 8-19-69, Cl. 226-108.
Trott, Samuel A. Leaf spring pressure device for capstan drives. 3,424,360, 1-28-69, Cl. 226-168.
Trott, Winfield James; and Radford, William E., to United States of America, Navy. Method for joining piezoelectric elements. 3,448,503, 6-10-69, Cl. 29-25.35
Trottier, Claude H.: *See—*
Hoffmann, Herman; and Trottier, Claude H.,3,457,317.
Trottnow, E. B., Machine Specialties, Inc.: *See—*
Daniels, Dennis, 3,455,109.

Daniels, Dennis, 3,455,247.
Trouard, Robert L.: *See—*
Hirshfield, Edward; Mizuno, Edward; and Trouard, Robert L.,3,431,506.
Trouilhet, Maurice Marie Achille, to Calor Appareils Electro-Domestiques. Directional fan. 3,481,533, 1-2-69, Cl. 230-256.
Trouilhet, Maurice Marie Achille, to Calor Appareils Electro-Domestiques. Device warning and protecting against over- voltages especially for electrical shavers operating under two voltages. 3,483,545, 12-9-69, Cl. 340-248.
Trounce, Richard E., to Corning Glass Works. Carton centering apparatus. 3,470,997, 10-7-69, Cl. 198-29.
Trounstine, Henry P.; and McCauley, Thomas M., to Clopay Corporation. Embossed plastic film. 3,484,835, 12-16-69, Cl. 161-130.
Trousdale, Robert B., to California Computer Products, Inc. Graphical display plotter. 3,425,038, 1-28-69, Cl. 340-172.5
Trousdale, Robert B.: *See—*
McCollough, Darrel G.; and Trousdale, Robert B.,3,471,847.
Troussier, Maurice: *See—*
Szobel, Laszlo; Troussier, Maurice; and Vuillemenot, Jacques,3,446,838.
Trout, Donald M. Sash guide and balancing spring lock unit for tiltably removable sash windows. 3,482,354, 12-9-69, Cl. 49-181.
Trout, Paul E.: *See—*
Christian, Robert L.; Trout, Paul E.; and Schwenkler, Joseph J.,3,485,575.
Troutner, Arthur L. Composite truss joist with offset bearing. 3,422,591, 1-21-69, Cl. 52-693.
Troutner, Arthur L. Composite structural decking. 3,440,791, 4-29-69, Cl. 52-629.
Troutner, Arthur L. Ridge connector for pitched truss joists. 3,457,689, 7-29-69, Cl. 52-639.
Troutner, Arthur L. Modular space deck. 3,466,824, 9-16-69, Cl. 52-262.
Trowbridge, Alice M. Model and method for teaching hair and wig styling. 3,458,943, 8-5-69, Cl. 35-59.
Troxel Manufacturing Company: *See—*
James, Carl A.; and Miller, John R., 3,466,086.
Timms, Richard M., 3,463,439.
Timms, Richard M., 3,486,727.
Troxell, Truxton B.: *See—*
Johnson, Robert G.; and Troxell, Truxton B.,3,445,958.
Troxler, Franz: *See—*
Hofmann, Albert; and Troxler, Franz,3,450,763.
Lindenmann, Adolf; Suess, Rudolf; and Troxler, Franz,3,454,566.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert,3,422,110.
Stadler, Paul; Troxler, Franz; and Hofmann, Albert,3,428,639.
Troxler, Franz; and Hofmann, Albert, to Sandoz Ltd., a/k/a Sandoz AG. (2-Hydroxy-3-substituted amino- propoxy)-indoles. 3,471,515, 10-7-69, Cl. 260-326.15
Troxler, Franz; and Hofmann, Albert, to Sandoz Ltd, a/k/a Sandoz A.G.3-[(1-cyano-2-lower alkyl)amino]-2-hydroxypropoxy- indoles. 3,479,371, 11-18-69, Cl. 260-326.15
Troy Chemical Corporation: *See—*
Nowak, Milton; and Singer, William, 3,485,772.
Troy, Elbert C., to National Engineering Company. Cooling and conditioning unit for granular material. 3,456,906, 7-22-69, Cl. 241-47.
Troy, John G. Hide removal device. 3,479,686, 11-25-69, Cl. 17-21.
Troy, Nathan, to Nasco Doll Inc.Rotatably supported doll's head. 3,464,150, 9-2-69, Cl. 46-135.
Troy National Bank: *See—*
Zielke, Darrell W., 3,423,039.
Troy, Raymond A., to Kidde, Walter, & Company, Inc. Filter. 3,455,459, 7-15-69, Cl. 210-315.
Troy Steel Corporation: *See—*
Menge, Donald, 3,421,751.
Troyanski, Constantin, to Pines Engineering Co., Inc. Plane of bend selector. 3,462,985, 8-26-69, Cl. 72-22.
Troyer, William J.: *See—*
Sullivan, Francis G.; Phelps, Charles G.; and Troyer, William J.,3,457,624.
Trozzolo, Marion A. Fry pan. 3,469,524, 9-30-69, Cl. 99-425.
Tru Point Products, Inc.: *See—*
Dorstewitz, Virgil D., 3,450,482.
Tru-Lay Masonry Products Corporation: *See—*
Curtis, Stanley R., 3,427,774.
Tru-lok Metal Fabricating Company, Inc.: *See—*
Massagli, Daniel, 3,479,784.
Truax, Gene L. Football position indicator. 3,482,317, 12-9-69, Cl. 33-46.
Truax, Robert C.; and Sprow, William J., to Aerojet-General Corporation. Pressurization system employing liquid pressurant for effecting propellant flow in a liquid propellant rocket. 3,427,806, 2-18-69, Cl. 60-39.48
Trubiano, Paolo C.: *See—*
Marotta, Nicholas G.; Trubiano, Paolo C.; and Ronai, Kenneth S.,3,443,964.
Trubiano, Paul C.: *See—*
Semegran, Theodore S.; and Trubiano, Paul C.,3,477,903.
Truck-Lite Co., Inc.: *See—*
Baldwin, George D., 3,451,035.
Baldwin, George D., 3,474,381.
Spiteri, Joseph, 3,456,154.
Trucks, Erich; Frohmuller, Klaus; and Helms, Dieter, to Licentia Patent-Verwaltungs-G.m.b.H. Noise damped external rotor motor with ball bearings. 3,459,978, 8-5-69, Cl. 310-51.
Trudeau, Edgar G.: *See—*
Draplin, Thomas E.; and Trudeau, Edgar G.,3,456,524.
Trudeau, Francis E., to Portec, Inc. Dipper tooth for excavating shovel with key means free of shearing and bending stress. 3,453,755, 7-8-69, Cl. 37-142.
Trudeau, Francis E., to Portec, Inc. Self-locking revetless chain. 3,457,721, 7-29-69, Cl. 59-85.
Trudeau, Urban P., to Owens-Illinois, Inc. Parison transfer and invert mechanism. 3,445,218, 5-20-69, Cl. 65-235.
Trudel, Gerald Joseph, to Canadian Industries, Limited. Tris (2-halo-3,4-epoxybutyl) phosphate. 3,433,809, 3-18-69, Cl. 260-348.
True Car Value, Inc.: *See—*
Goggins, Franklin, 3,444,918.
True Form Foundations, Inc.: *See—*
Barg, Herbert, 3,465,757.
True Temper Corporation: *See—*
Jackson, Carl Thomas, 3,477,642.
True, Thomas T.: *See—*
Good, William E.; and True, Thomas T.,3,437,746.
Graser, Michael, Jr.; and True, Thomas T.,3,429,996.
True-Trace Corporation: *See—*
Fling, John J., 3,481,577.
Weaver, Paul J., 3,459,401.
Weaver, Paul J., 3,459,402.
Trueblood, Elmer D., to Trueblood Inc., d/b/a Union Tool & Engineering Co. Injection molding machine. 3,436,793, 4-8-69, Cl. 18-30.
Trueblood Inc.: *See—*
Trueblood, Elmer D., 3,436,793.
Truehauf Corporation: *See—*
Tantlinger, Keith W.; and Bauer, Robert H., 3,473,819.
Trueline Instruments, Inc.: *See—*
Olson, Jack Edward, 3,445,711.
Truemper, John P.; and Smith, Aubrey H., to Eaton Yale & Towne, Inc. Hoist push button control. 3,469,164, 9-23-69, Cl. 318-257.
Truesdel, Lem D.; and Simmons, William P., Jr., to Southern Crate & Veneer Company. Flat mat and crate assembled from same. 3,450,292, 6-17-69, Cl. 217-47.
Truesdell, Robert E.; and Nienstedt, William H., to Allied Chemical Corporation. Panel molding structure. 3,471,355, 10-7-69, Cl. 161-40.
Truesdell, Warren L.; and McQuary, Kenneth L., to Eldon Industries. Brake testing device. 3,430,581, 3-4-69, Cl. 104-60.
Truett, William L.: *See—*
Johnson, Donald R.; Nadeau, Richard G.; Nieuweboer, Gerrit; and Truett, William L.,3,476,515.
Trufel, Anton: *See—*
Schaeffler, Georg; and Trufel, Anton,3,442,562.
Truffert, Alain Philippe, to Societe Anonyme de Telecommunications. Transducer having a conversion characteristic of a predetermined formation. 3,427,459, 2-11-69, Cl. 250-209.
Truhan, Andrew. Environmental chamber. 3,424,231, 1-28-69, Cl. 165-19.
Truhan, Andrew. Radiant energy stability test chamber having air circulating means. 3,433,949, 3-18-69, Cl. 250-51.
Truhan, Andrew. Fog generator and chamber. 3,444,092, 5-13-69, Cl. 252-359.
Truhan, Andrew. Gas conditioning apparatus for controlled environment. 3,467,176, 9-16-69, Cl. 165-17.
Truhan, Andrew. Environmental compartment temperature control. 3,469,782, 9-30-69, Cl. 237-2.
Truhan, Andrew. Gas meter calibration apparatus. 3,475,949, 11-4-69, Cl. 73-3.
Truitt, James K.: *See—*
Bawa, Mohendra S.; and Truitt, James K.,3,453,146.
Bawa, Mohendra S.; Connally, Leslie O.; and Truitt, James K.,3,421,863.
Truitt, James K., to Texas Instruments Incorporated. Method of oxidizing residual H_2S to SO_2 in a fuel cell. 3,431,146, 3-4-69, Cl. 136-86.
Truitt, James K., to Texas Instruments, Incorporated. Fuel cell batteries. 3,458,357, 7-29-69, Cl. 136-86.
Truitt, Martha I. Paper umbrella. 3,446,221, 5-27-69, Cl. 135-19.5
Trulson, Frederick J., to General Motors Corporation. Static ignition timing instrument. 3,483,544, 12-9-69, Cl. 340-213.
Trulsson, Ingvar: *See—*
Persson, Erik; Claesson, Nils-Erik; Trulsson, Ingvar; and Melandsor, Osvald,3,470,383.
Truman, Chester A. Rod retrieval tool. 3,436,117, 4-1-69, Cl. 294-104.
Trumble, Frank C. Vehicle distress tone generator. 3,461,423, 8-12-69, Cl. 340-52.
Trumbo, Cecil Dale, to Winn Engineering Company. Wire tie device. 3,477,363, 11-11-69, Cl. 100-34.

Trumbull, Harold E.: *See*—
Davis, Howard C.; and Trumbull, Harold E.,3,433,154.
Trumbull, Harold E.; and Grimm, James J., to Xerox Corporation, mesne. Transfer sheet clamping mechanism for a reproduction machine. 3,460,472, 8-12-69, Cl. 101-132.
Hull, Henry E.; Trumbull, Harold E.; and Zeidman, Gordon G.,3,432,639.
Trumbull, Walter A.: *See*—
Topolski, Alvin S.; and Trumbull, Walter A.,3,480,189.
Trump, George Samuel. Debris collector for water drainage pipes. 3,465,885, 9-9-69, Cl. 210-447.
Trumper, Jay M., to General Electric Company. Flexible article conveyor for high speed applications. 3,437,005, 4-8-69, Cl. 89-33.
Trumpf & Co.: *See*—
Leibinger, Berthold, 3,473,427.
Wachter, Otto; and Lorber, Gerd, 3,433,122.
Truncali, Vito J. Self-loading bin trailer. 3,455,474, 7-15-69, Cl. 214-505.
Trungold, Emanuel. Explosive washer for high tension bolts. 3,435,724, 4-1-69, Cl. 85-62.
Trunk, Edmond G.: *See*—
Lester, Robert William; and Trunk, Edmond G.,3,458,657.
Trunk, Junior George: *See*—
Eldridge, Clare Wallace; Jones, James Dorroh; and Trunk, Junior George,3,449,900.
Trunnell, Harold K.: *See*—
Getchell, Frederick G.; Getchell, James W.; and Trunnell, Harold K.,3,424,356.
Trupp, Mason. Anti-hot gas ingestion compound propulsion system. 3,484,060, 12-16-69, Cl. 244-53.
Truskalo, Walter, to General Electric Company. Retrace pulse shaping in a transistor vertical deflection circuit. 3,440,484, 4-22-69, Cl. 315-27.
Trusov, Viktor Matveevich; Fedorova, Anna Pavlonvna; and Chernetsky, Evgeny Mikhailovich. Method and device for obtaining voltage representing a predetermined function and for linearization of non- linear operating characteristics of frequency-measuring transducers adapted to determine physical values. 3,482,084, 12-2-69, Cl. 235-150.3
Trussell, Harry B. Processing waste recovery system. 3,440,949, 4-29-69, Cl. 99-235.
Truswood Structures Limited: *See*—
Price, George E., 3,452,502.
Truth Tool Company: *See*—
Armstrong, Henry P., 3,422,575.
Armstrong, Henry P., 3,457,675.
Armstrong, Henry P., 3,461,609.
Trutna, William R.: *See*—
Miller, William C.; and Trutna, William R.,3,476,751.
Trutzschler & Co., Firma: *See*—
Hecker, Heinz, 3,482,883.
TRW Inc.: *See*—
Anderson, Lawrence G.; and Anderson, Le Roy M., 3,477,772.
Anderson, Philip N., 3,477,662.
Banks, Hampden O.; and Sparks, Richard H., 3,461,954.
Baron, Wilfred R., 3,459,597.
Bauer, Paul, 3,421,944.
Bauer, Paul, 3,450,196.
Becker, Leonard, 3,482,498.
Bell, Leo R.; and Peterson, Joseph A., 3,429,124.
Bernstein, William; and Wax, Robert L., 3,435,214.
Bloom, Murray, 3,463,715.
Bloom, Murray, 3,480,535.
Braid, Murray D.; and Detling, Miles W., 3,472,996.
Breuer, David Roy, 3,480,872.
Bromberg, Robert; and Romic, Fred E., 3,465,813.
Burns, Jerome G., 3,471,900.
Carlson, Burnette J.; and Johnson, John H., 3,476,445.
Casey, Harry B.; Woods, John G.; and Wood, George W., 3,484,734.
Chandley, George D.; and Uram, Stuart Z., 3,420,291.
Chandley, George D., 3,423,069.
Chandley, George D., 3,441,078.
Clark, Hubert M.; and Drutchas, Gilbert H., 3,424,094.
Clark, Hubert M.; and Drutchas, Gilbert H., 3,467,441.
Clark, Hubert M.; and Drutchas, Gilbert H., 3,480,336.
Clary, Harry E., 3,430,969.
Cook, Harvey A., 3,475,011.
Crawshaw, James Robert; and Bills, Kenneth Gordon, 3,445,693.
Dardick, David, 3,434,380.
Dardick, David, 3,446,111.
Dardick, David, 3,446,113.
Dardick, David, 3,467,276.
De Splinter, Donald H., 3,451,621.
Diehl, Donald S.; and Wagner, Robert, 3,446,912.
Douglass, Walter H., Sr., 3,466,419.
Dymond, Richard W., 3,420,580.
Fedowitz, Frank, Jr., 3,446,115.
Fladlien, David G.; and Smith, J Perry, 3,422,689.
French, Park, 3,436,571.
Gadd, John D., 3,478,413.
Giles, William S., 3,466,009.
Gilmartin, John A., 3,474,688.
Glorioso, Paul A.; and Spisak, Steve, 3,487,190.
Goff Raymon L.; and White, Hollis N., Jr., 3,452,543.
Goff, Raymon L., 3,481,147.
Gogia, Jugal K.; Hinde, William L.; and Seldner, Kurt, 3,427,466.
Goodykoontz, James R., 3,480,208.
Gura, Robert J.; and Hodina, Edward G., 3,440,926.
Hammitt, Andrew G., 3,443,129.
Hansen, David O.; and Roy, Neal L., 3,423,627.
Hansen, David O.; Früchtenicht, Joseph F.; and Roy, Neal L., 3,435,208.
Harte, Richard A., 3,463,142.
Heflinger, Lee O., 3,460,881.
Herbenar, Edward J., 3,430,327.
Herbenar, Edward J.; Cass, Richard; and Kutcher, Eugene R., 3,430,995.
Herbenar, Edward J.; and Mazur, Sylvester S., 3,441,298.
Herbenar, Edward J., 3,464,723.
Herbenar, Edward J.; and Cass, Richard, 3,486,778.
Hickey, John J., 3,423,595.
Howles, Daniel J., 3,430,392.
Hunley, Homer E., 3,435,322.
Inouye, George T.; and Judge, Darrell L., 3,435,337.
Jacob, Don M., 3,475,753.
Janakirama-Rao, Bhogaraju V., 3,468,682.
Johnson, John H., 3,472,567.
Josephson, Robert G., 3,449,031.
Kaufman, Irving, 3,487,336.
Kelly, Franklin G.; and Acton, Donald J., 3,459,999.
Krausz, Alfred, 3,487,229.
Kupchick, John J., 3,442,520.
Larsen, Arthur B., 3,458,797.
Lassen, Herbert A.; and Ward, Edward A., 3,423,755.
Leventhal, Elias L., 3,451,641.
Lierse, Kurt F.; and Timura, James A., 3,429,172.
Lord, Albert M.; Walsh, Thomas J.; and Fatica, Nicholas, 3,459,596.
Lubowitz, Hyman R.; Ogren, John R.; and Kendrick, William P., 3,423,317.
Lubowitz, Hyman R., 3,431,235.
Lucas, Delbert E.; and Adkins, William L., 3,457,799.
Mastrup, Frithjof N., 3,428,860.
Mastrup, Frithjof N., 3,447,322.
McIver, George W.; and Buie, James L., 3,475,665.
Meyer, James G., 3,420,470.
Meyers, Robert A.; and Wilson, Edgar R., 3,429,859.
Meyers, William G., 3,475,613.
Monroe, Thomas I.; and Goff, Raymon L., 3,443,378.
Morse, Arthur L., 3,470,461.
Mulligan, William A.; and Murphy, Remington M., 3,441,516.
Mulligan, William A., 3,473,146.
Murdock, Robert W., 3,483,355.
Murray, James E.; and Klimo, Robert G., 3,436,644.
Murray, James E.; and Klimo, Robert G., 3,467,852.
Myers, John Edmond, 3,463,224.
Nasvytis, Algirdas L., 3,433,099.
Nasvytis, Algirdas L., 3,468,403.
Neusel, Robert H., 3,466,567.
Neusel, Robert H., 3,470,494.
Ogren, John R., 3,463,636.
Oltman, Henry G., Jr., 3,443,131.
Oltman, Henry G., Jr.; and Kaufman, Irving, 3,453,456.
Polakowski, William G., 3,453,512.
Potocnik, Antone, 3,464,633.
Robertson, Anthony E.; Pauliukonis, Richard S.; and Eichenberger, Hans P., 3,486,332.
Rubin, Charles P., 3,434,254.
Sargent, David; and Rountree, Richard C., 3,451,643.
Schmidt, Uwe J., 3,482,899.
Simonton, David P., 3,436,988.
Slattery, Jack C.; and Hamermesh, Bernard, 3,446,068.
Spoth, Nelson G.; and Chandley, George D., 3,484,840.
Spriggs, Rueben S.; Learn, Arthur J.; and Scott-Monck, John A., 3,465,428.
Updike, Stanley H.; Cherrie, James M.; and Michaels, William A., 3,421,734.
Updike, Stanley H.; and Michaels, William A., 3,459,166.
Uram, Stuart Z., 3,465,808.
Vuceta, Ivan N., 3,485,136.
Wells, Paul E.; and Davis, John S., 3,436,813.
White, Hollis N., Jr., 3,452,680.
White, Hollis N., Jr., 3,460,481.
Wood, George W., 3,469,225.
Wuerker, Ralph F.; and Briones, Robert A., 3,480,831.
TRW Semiconductors, Inc.: *See*—
Clarke, Ronald N., 3,452,256.
Crishal, Joan M.; and Sandstrom, James P., 3,476,620.
Mann, John E.; and Walker, Perrin, 3,485,684.

Queen, Henry Mack, 3,464,867.
Trybus, Conrad: *See—*
Loughridge, Raymond H.; and Trybus, Conrad,3,432,218.
Tryco Manufacturing Co., Inc.: *See—*
Jacobs, Carl M., 3,422,909.
Tryhorn, Donald Wilfred, to Armstrong Whitworth, Sir W. G., & Company (Engineers) Limited. Two-stroke cycle internal combustion engine. 3,426,736, 2-11-69, Cl. 123-65.
Tryhorn, Donald Wilfred, 1/2 to Whitworth, W. G. Armstrong, Sir, & Company (Engineers). Turbocharged internal combustion engine. 3,469,393, 9-30-69, Cl. 60-13.
Trylinski, Wladyslaw; Burzynski, Stanislaw; Pawlowski, Jerzy; and Rawski, Ryszard, to Politechnika Warszawska. Perforated tape perforator. 3,485,446, 12-23-69, Cl. 234-128.
Trzyna, Charles J.; and Trzyna, Thaddeus S. Aligning method. 3,447,924, 6-3-69, Cl. 96-36.
Trzyna, Thaddeus S.: *See—*
Trzyna, Charles J.; and Trzyna, Thaddeus S.,3,447,924.
Tsai, Joseph C., to Westinghouse Electric Corporation. Semiconductor devices with a region having portions of differing depth and concentration. 3,450,961, 6-17-69, Cl. 317-235.
Tsai, Joseph C., to Westinghouse Electric Corporation. Field effect semiconductor devices of the junction type and method of making. 3,450,963, 6-17-69, Cl. 317-235.
Tsang, Wei K.: *See—*
Busen, Karl; Lindmayer, Joseph; Schneider, William C.; and Tsang, Wei K.,3,443,174.
Tsang, Wei K.; and Busen, Karl M., to Sprague Electric Company. Narrow emitter lateral transistor. 3,443,173, 5-6-69, Cl. 317-235.
Tsao, Carson K. H.: *See—*
Enemark, Robert B.; and Tsao, Carson K. H.,3,478,269.
Tsao, George T., to Union Starch & Refining Co., Inc. Purification of polyhydric alcohols. 3,483,264, 12-9-69, Cl. 260-637.
Tsao, George T.; Reid, Thornton H.; Hiller, Fred L.; and Hubbard, Lawrence H., to Union Starch & Refining Co., Inc. Production of fructose from dextrose. 3,432,345, 3-11-69, Cl. 127-42.
Tsao, Thomas K.; and Yu, Michael. Method of treating solar cells. 3,436,275, 4-1-69, Cl. 148-1.5
Tsao, Utah, to Lummus Company, The. Chlorine purification. 3,443,902, 5-13-69, Cl. 23-219.
Tschannen, Arthur W.: *See—*
Millard, Raymond L.; and Tschannen, Arthur W.,3,438,531.
Tschannen, Gottfried, to Albiswerk Zurich A.G.Circuit arrangement for the production of two pulse series phase-shifted by 90°. 3,473,129, 10-14-69, Cl. 328-55.
Tschannen, Robert F., to Hazeltine Research, Inc. Focus control apparatus. 3,436,592, 4-1-69, Cl. 315-31.
Tschanz, August E., to Teleflex Incorporated. Remote control assembly. 3,427,894, 2-18-69, Cl. 74-501.
Tschanz, August E.; and Frank, William L., to Teleflex Incorporated. Remote control assembly. 3,424,027, 1-28-69, Cl. 74-502.
Tschappu, Franz. Device for heat-sealing thermoplastic bands. 3,470,814, 10-7-69, Cl. 100-4.
Tscharner, Christopher Johannes: *See—*
Hausermann, Heinrich; Schlapfer, Hans; and Tscharner, Christopher Johannes,3,472,842.
Tscharner, Christopher Johannes, to Geigy Chemical Corporation. Certain cycloalkylamine substituted bis-triazinylamion stilbene compounds. 3,428,628, 2-18-69, Cl. 260-240.
Tschatzki, Lothar: *See—*
Schneider, Walter; Reincke, Joachim; Blumenthal, Reinhard; Tschatzki, Lothar; and Kagelmann, Manfred,3,470,963.
Tschesche, Rudolf; Riemhofer, Franz; and Bernstein, Jack, to Squibb, E. R., & Sons, Inc. Benzoic acid hydrazide derivatives and compositions. 3,466,327, 9-9-69, Cl. 260-559.
Tschirky, John E.: *See—*
Garrison, Erskine P.; and Tschirky, John E.,3,456,746.
Tschopp, Lloyd D.; Welch, Lester M.; and Woerner, Rudolph C., to Petro-Tex Chemical Corporation. Purification of hydrocarbons. 3,474,155, 10-21-69, Cl. 260-677.
Tschopp, Lloyd D.; and Woerner, Rudolph C., to Petro-Tex Chemical Corporation. Production of isobutylene from isobutane. 3,479,416, 11-18-69, Cl. 260-683.3
Tschudi, Dennis E., to Bendix Corporation, The. Pulse generator having fast rise time. 3,480,799, 11-25-69, Cl. 307-273.
Tschudin, Kurt, to Contraves A.G. Braking torque sensing means. 3,443,418, 5-13-69, Cl. 73-59.
Tschudin, Oswald, to Brae Ltd. Devices for converting rotary vibrations into unidirectional rotary movement. 3,433,984, 3-18-69, Cl. 310-37.
Tschudin, Oswald: *See—*
Steinemann, Samuel; and Tschudin, Oswald,3,469,462.
Tschudy, Donald B.: *See—*
Fenn, Warren T.; Schott, Eugene A.; and Tschudy, Donald B.,3,448,864.
Fisher, Richard R.; Kifor, Harry T.; and Tschudy, Donald B.,3,442,996.
Tschudy, Jay, Jr., to Precision Agricultural Machinery Company. Method of thinning plants. 3,458,952, 8-5-69, Cl. 47-1.43
Tschudy, Jay, Jr., to Precision Agricultural Machinery Company. Precision seed planter apparatus. 3,463,100, 8-26-69, Cl. 111-91.
Tschumperlin, Karl, to Paliz A.G. Double-bed knitting machine. 3,440,839, 4-29-69, Cl. 66-64.
Tse, Francis S.; and Comstock, Theodore R., 1/3 to Lemon, Jason R. Vibration controller for machine tools. 3,473,435, 10-21-69, Cl. 90-11.
Tseo, Gu-Din, to Xerox Corporation. Article controlled document marking apparatus for copying machines. 3,468,249, 9-23-69, Cl. 101-235.
Tsergas, Athanase N., to Ram Tool Corporation. Permanent magnet motor for hand tools and speed control systems therefor. 3,458,793, 7-29-69, Cl. 318-341.
Tsergas, Athanase N., to Ram Tool Corporation. SCR, diode and transistor analyzer. 3,478,264, 11-11-69, Cl. 324-73.
Tsergas, Athanase N., to Ram Tool Corporation. Apparatus for testing armatures for coil condition, shorts or leakage. 3,483,470, 12-9-69, Cl. 324-158.
Tshudy, Donald R.: *See—*
Hess, Earl H.; and Tshudy, Donald R.,3,420,671.
Tsien, Hsue C., to Esso Research and Engineering Company. Biaxial stretching machine. 3,427,684, 2-18-69, Cl. 18-1.
Tsien, Hsue C., to Esso Research and Engineering Company. Universal diffusion-sorption type gas analyzer. 3,431,771, 3-11-69, Cl. 73-23.
Tsien, Hsue C., to Esso Research and Engineering Company. Screw feed biaxial stretching machine. 3,445,887, 5-27-69, Cl. 18-1.
Tso, Tien C.; and Steffens, George L., to United States of America, Agriculture. Method for tobacco sucker control. 3,438,765, 4-15-69, Cl. 71-78.
Tsou, Ivan H.: *See—*
Burlant, William J.; and Tsou, Ivan H.,3,437,512.
Burlant, William J.; and Tsou, Ivan H.,3,437,513.
Tsou, Ivan H., to Ford Motor Company. Electrocoating bath control. 3,434,952, 3-25-69, Cl. 204-181.
Tsubakimoto Chain Mfg., Co., Ltd., The: *See—*
Nakahara, Shigeru; and Toyoda, Yoichi, 3,469,887.
Tsuboi, Kiyoshi; and Mochizuki, Takani, to Kurashiki Rayon Co., Ltd. Polyvinyl alcohol materials and compositions. 3,427,298, 2-11-69, Cl. 260-91.3
Tsuboi, Takamitsu: *See—*
Yoshida, Susumu; Tsuboi, Takamitsu; and Ueno, Kiichi,3,444,416.
Tsuboi, Takeo: *See—*
Okuda, Itsuki; Yoshinaga, Eiichi; and Tsuboi, Takeo,3,432,601.
Tsubota, Akira: *See—*
Yamamoto, Naonari; Masuda, Mitsuo; Saikawa, Toshihiko; Tsubota, Akira; Shida, Yasuo; and Matsumura, Toshiji,3,440,688.
Tsubouchi, Norio: *See—*
Akashi, Tsuneo; Takahashi, Masao; and Tsubouchi, Norio,3,481,874.
Akashi, Tsuneo; Takahashi, Masao; Tsubouchi, Norio; Ohno, Tomeji; and Yamauchi, Fumio,3,461,071.
Tsubouchi, Norio; Takahashi, Masao; and Akashi, Tsuneo, to Nippon Electric Company Limited. Piezoelectric ceramic. 3,472,778, 10-14-69, Cl. 252-62.9
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, to Nippon Electric Company, Limited. Piezoelectric ceramic material. 3,484,377, 12-16-69, Cl. 252-62.9
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, to Nippon Electric Company, Limited. Piezoelectric ceramic. 3,487,019, 12-30-69, Cl. 252-62.9
Tsuchida, Takashi: *See—*
Muraki, Ichiro; Tsuchida, Takashi; Shinoda, Kenichi; and Maruyam, Shoji,3,442,716.
Tsuchihira, Hisao: *See—*
Nakai, Tsuneo; Minehisa, Setsuji; Fuchino, Yoshio; and Tsuchihira, Hisao,3,446,931.
Tsuchii, Kimitaka: *See—*
Hamada, Yoshitsugu; Imai, Teruhiro; Maeda, Yukio; and Tsuchii, Kimitaka,3,485,219.
Tsuchiya Manufacturing Company Limited: *See—*
Kashiwaba, Yukio, 3,465,707.
Tsuchiya, Shoji; and Nakagawa, Ichiro, to Nippon Telegraph and Telephone Public Corporation. Micro-wave phase shifter and circuit therefor. 3,443,216, 5-6-69, Cl. 324-58.
Tsuchiya, Takeshi; Takahashi, Tetsuo; Yamamoto, Kiyoshi; Yanai, Akito; Takiura, Mikio; and Kano, Toshio, to Tokyo Shibaura Electric Co., Ltd. Developing device for an electrostatic recording apparatus. 3,472,205, 10-14-69, Cl. 118-637.
Tsuchiya, Takuzo; and Perttula, Harold V., to General Mills, Inc. Process of preparing puffed cereal product. 3,464,827, 9-2-69, Cl. 99-82.
Tsuda, Atsushi: *See—*
Nakanishi, Michio; Tsuda, Atsushi; and Inamasu, Shuji,3,467,655.
Tsuda, Yoshizo: *See—*
Kawabata, Yasuro; Maekawa, Haruki; Watanabe, Masamoto; and Tsuda, Yoshizo,3,485,804.
Tsuetaki, George F. Method of making a bifocal contact lens with an embedded metal weight. 3,431,327, 3-4-69, Cl. 264-1.
Tsugita, Masanobu: *See—*
Horio, Takamaro; and Tsugita, Masanobu,3,448,328.

Tsui, Frank Fang, to International Standard Electric Corporation. Magnetic core buffer storage. 3,457,555, 7-22-69, Cl. 340-174.

Tsui, Frank Fang, to International Standard Electric Corporation. Magnetic associative semi-permanent memory system. 3,474,424, 10-21-69, Cl. 340-174.

Tsuji, Akira: *See*—
Ariyasu, Kenji; and Tsuji, Akira,3,458,033.

Tsuji, Hiroshi: *See*—
Katsumura, Tatsuo; Kawakami, Yohei; and Tsuji, Hiroshi,3,441,580.

Tsuji, Jiro; Kiji, Jitsuo; Morikawa, Masanobu; and Imamura, Shinzo. Process for the manufacture of unsaturated carboxylic acid esters. 3,427,344, 2-11-69, Cl. 260-468.

Tsuji, Mikio: *See*—
Kohya, Tetsuya; and Tsuji, Mikio,3,478,818.

Tsuji, Nobuo: *See*—
Kondo, Hideo; Tsuji, Nobuo; Nishio, Fumihiko; and Mizuki, Eiichi,3,449,123.

Tsuji, Shigeru: *See*—
Ikeda, Koichi; Tsuji, Shigeru; Anazawa, Shinzo; and Koyama, Tsukasa,3,420,683.

Tsuji, Shigeru, to Nippon Electric Company, Limited. Pressure contact semiconductor devices. 3,476,986, 11-4-69, Cl. 317-234.

Tsuji, Shigeru; Hayashi, Kazutami; Kadowaki, Kouichi; and Sato, Katsuo, to Nippon Electric Company, Limited. Device for glass glazing electronic housing members. 3,436,201, 4-1-69, Cl. 65-155.

Tsuji, Teruji: *See*—
Tanida, Hiroshi; and Tsuji, Teruji,3,445,456.
Tanida, Hiroshi; and Tsuji, Teruji,3,450,743.

Tsuji, Tetsuo: *See*—
Uchimaru, Kiyoshi; and Tsuji, Tetsuo,3,461,337.

Tsujimoto, Hiroshi: *See*—
Kaname, Yuichi; Nagata, Takashi; Ishibashi, Michio; and Tsujimoto, Hiroshi,3,433,982.

Tsujimoto, Michihiro: *See*—
Okubo, Ichiro; and Tsujimoto, Michihiro,3,475,341.

Tsujimoto, Shinichi: *See*—
Yamada, Tadashi; and Tsujimoto, Shinichi,3,443,553.

Tsujino, Yoshiyuki, to Yawata Iron & Steel Co., Ltd. Regeneration of refused rolls. 3,471,340, 10-7-69, Cl. 148-12.

Tsukada, Keiichi: *See*—
Yamato, Junji; Tsukada, Keiichi; Kajiwara, Masaichi; and Ono, Masamichi,3,479,462.

Tsukada, Tomomichi; Kabuki, Kimiaki; and Nakazawa, Tokuo, to Tokyo Shibaura Electric Co., Ltd. Method of preparing antistatic molded articles of synthetic resin. 3,428,595, 2-18-69, Cl. 260-41.

Tsukada, Wataru: *See*—
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru,3,426,023.

Tsukahara, Hiroshi: *See*—
Sagara, Toshio; Shoji, Masahiro; and Tsukahara, Hiroshi,3,441,982.

Tsukahara, Osamu, to Dainihon Bungu Kabu Shikigaisha, a/k/a Japan Stationery Co., Ltd., The. Mechanical pencil of the push-out type. 3,442,596, 5-6-69, Cl. 401-84.

Tsukahara, Yasushi, to Dainihonbungu Kabushiki Kaisha. Method of producing pencil lead. 3,446,878, 5-27-69, Cl. 264-29.

Tsukamoto, Hirokazu: *See*—
Yamashita, Toshio; Yoshida, Manabu; and Tsukamoto, Hirokazu,3,466,190.

Tsukamoto, Hiroshi; and Iwahashi, Syunji, to Sumitomo Chemical Company, Ltd. Porous plate of polyvinyl chloride resin and method for producing the same. 3,438,912, 4-15-69, Cl. 260-2.5

Tsukamoto, Hisashi: *See*—
Okuda, Noriyuki; Kuniyoshi, Ieji; and Tsukamoto, Hisashi,3,481,976.

Tsukamura, Yoshihiro: *See*—
Ohkoshi, Akio; Nii, Takchiko; and Tsukamura, Yoshihiro,3,437,868.

Tsukkerman, Solomon Tobiasovich, to Leningradsky Institute Tochnoy Mekhaniki i Optiki. Device for controlling machines, mainly dredgers, with optical beam. 3,452,207, 6-24-69, Cl. 250-215.

Tsumura, Takao; Kadooka, Toshio; Suzuki, Keisuke; and Kitayama, Noboru, to Japan Radio Company Limited. Radar signal recording and reproducing system. 3,444,553, 5-13-69, Cl. 343-5.

Tsunawaki, Kiyokazu: *See*—
Kuwabara, Michichika; Nawata, Kiyoshi; Tsunawaki, Kiyokazu; and Sakakibara, Seizaburo,3,432,476.

Tsunawki, Shigemitsu; and Furusawa, Yutaka, to Teijin Limited. Process for the purification of lactams. 3,459,640, 8-5-69, Cl. 203-88.

Tsunewaki, Masami: *See*—
Kosaka, Kenzo; Tsunewaki, Masami; Yonekura, Nobuaki; Okaya, Tsutomu; Mimatsu, Ken; and Mori, Tatsujiro,3,446,005.

Tsunoda, Fukuyuki. Irons including manually operated spray means. 3,434,228, 3-25-69, Cl. 38-78.

Tsunoda, Masanori: *See*—
Itoh, Mimpei, 3,459,320.

Tsunoda, Takahiro; Yamaoka, Tsuguo; Itano, Kohei; and Hori, Haruo, to Keuffel & Esser Company. Diazotype material. 3,486,900, 12-30-69, Cl. 96-91.

Tsunoda, Takao: *See*—
Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao,3,477,999.

Tsunoda, Yoshimasa; Iwata, Hideo; Okada, Tsutomu; and Aso, Kotaro, to Fuji Photo Film Co., Ltd. Cutting apparatus. 3,475,801, 11-4-69, Cl. 25-105.

Tsunokawa, Tamio: *See*—
Takagi, Kazumi; and Tsunokawa, Tamio,3,475,492.

Tsunooka, Tsutomu: *See*—
Banno, Hisao; and Tsunooka, Tsutomu,3,463,732.
Banno, Hisao; Maeda, Shoji; Tsunooka, Tsutomu; and Sakai, Masao,3,464,924.

Tsuruga, Masanori; Murakami, Shogo; Kondo, Katsutoshi; Akabane, Shunei; Washikita, Kenji; and Koshino, Tameo, to Fuji Chemical Industries, Ltd. Method of resolving dl-ephedrine into its optically active components. 3,478,101, 11-11-69, Cl. 260-570.6

Tsurugi, Shinichi: *See*—
Kudo, Shiro; and Tsurugi, Shinichi,3,442,772.
Kudo, Shiro; Mihara, Yoshihisa; Adachi, Taiichi; Tsurugi, Shinichi; Usuku, Tomoatsu; and Wada, Isamu,3,476,796.

Tsurumoto, Ichizo. Machines for manufacturing spring washer. 3,468,148, 9-23-69, Cl. 72-132.

Tsuruoka, Tomio; and Shimomura, Jun, to Nippon Kogaku K.K. Exposure meter for single lens reflex camera. 3,478,663, 11-18-69, Cl. 95-42.

Tsurushima, Masaaki; and Yatani, Kozo, to Takeda Chemical Industries, Ltd. Method for the production of 2-substituted-4- amino-5-acylamidomethyl-pyrimidine. 3,472,850, 10-14-69, Cl. 260-256.4

Tsuruta, Teiji: *See*—
Matsuura, Kazuo; and Tsuruta, Teiji,3,464,958.
Onishi, Akira; Ishikawa, Takao; Sakata, Ryozo; Fujio, Ryota; and Tsuruta, Teiji,3,467,624.

Tsuruzawa, Teruya, to Nippon Seal Co., Ltd. Brush for cleaning. 3,421,171, 1-14-69, Cl. 15-172.

Tsutsui, Nobuhiro: *See*—
Ichimi, Teruhiko; Okazaki, Takeshi; Tsutsui, Nobuhiro; and Minami, Shinsaku,3,455,771.
Nakagawa, Kazumi; Kuratani, Keijiro; Tsutsui, Nobuhiro; and Minami, Shinsaku,3,463,846.
Nakagawa, Kazumi; Tsutsui, Nobuhiro; and Sumi, Takehiko,3,451,140.

Tsutsui, Tsutomu: *See*—
Katsumura, Tatsuo; Kataoka, Hirohisa; Mizuno, Yutaka; Tsutsui, Tsutomu; and Nishihara, Tadashi,3,423,482.
Mizuno, Yutaka; Nishihara, Tadashi; Shioyama, Yutaka; Tsutsui, Tsutomu; and Murakami, Keiichi,3,466,311.

Tsutsumi, Eizaburo: *See*—
Sakai, Chiyoji, 3,425,678.

Tsutsumi, Fumoto. Engagement-type stepless variable ratio transmission. 3,456,517, 7-22-69, Cl. 74-199.

Tsutsumi, Masato; and Wilmore, William W., to Maui Pineapple Company, Ltd. Pineapple slicing machine. 3,485,277, 12-23-69, Cl. 146-6.

Tsutsumi, Tadao, to Toyo Rayon Kabushiki Kaisha. Process for production of bis (β-hydroxyalkyl) terephthalate. 3,422,136, 1-14-69, Cl. 260-475.

Tsutsumi, Teruo: *See*—
Oguri, Fujio; and Tsutsumi, Teruo,3,482,714.

Tsuya, Noboru; Inaba, Fumio; and Kainuma, Seizo. Optical maser output controlling apparatus. 3,437,952, 4-8-69, Cl. 331-94.5

Tsuyama, Tomotsugu; and Tanaka, Yo, to Fuji Shashin Film Kabushiki Kaisha. Slide-film confirming apparatus of a slide projector. 3,480,357, 11-25-69, Cl. 353-21.

Tsuzaki, Takehiro: *See*—
Yamashita, Akio; Tsuzaki, Takehiro; and Yamada, Tadashi,3,471,323.

Tsuzimoto, Hideyuki; and Ikeda, Megumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Method of and apparatus for crimping synthetic fibres. 3,469,293, 9-30-69, Cl. 28-1.

Tsuzuki, Ryohei. Apparatus for feeding spinning material to a spinning machine. 3,448,571, 6-10-69, Cl. 57-36.

Tsuzuki, Ryohei. Method for feeding spinning material to spinning machine and its apparatus. 3,469,385, 9-30-69, Cl. 57-34.

Tu, Ju C., to Singer-General Precision, Inc. Magnetic thin film data storage unit in a bridge-like arrangement. 3,474,420, 10-21-69, Cl. 340-174.

Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M., to Singer-General Precision, Inc. Logical circuit with two-dimensional magnetic core matrix. 3,444,533, 5-13-69, Cl. 340-174.

Tu, Ju C.; Fuller, Richard H.; and Bird, Richard M., to Singer-General Precision, Inc. Word logic circuit. 3,453,445, 7-1-69, Cl. 307-88.

Tu, Ju C.: *See—*
Fuller, Richard H.; Tu, Ju C.; and Worthy, Robert M.,3,435,423.
Tu, Shu-Tung, to United Shoe Machinery Corporation. Strong fibrous sheet material and method of making the same. 3,440,131, 4-22-69, Cl. 161-53.
Tubaro, Ezio: *See—*
Banci, Feriano; and Tubaro, Ezio,3,420,839.
Tubas de Acero de Mexico, S.A.: *See—*
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez, 3,462,538.
Tubbs, Howard A. Well system coupler. 3,434,536, 3-25-69, Cl. 166-88.
Tubbs, Lester G., to Westinghouse Electric Corporation. Flux transfer lifting apparatus. 3,441,807, 4-29-69, Cl. 317-123.
Tube and Pipe Industries (Proprietary) Limited: *See—*
Fletcher, Joseph D., 3,423,003.
Tucci, Anthony G. Cross-stacker. 3,486,425, 12-30-69, Cl. 93-93.
Tucci, Julius C. One-piece seed dispensing carton. 3,425,602, 2-4-69, Cl. 222-457.
Tucci, Morris L.: *See—*
Anderson, Joseph J.; and Tucci, Morris L.,3,472,114.
Tuccillo, Joseph J.: *See—*
Nielsen, John P.; and Tuccillo, Joseph J.,3,424,577.
Schulz, John F.; and Tuccillo, Joseph J.,3,458,936.
Tuchel, Ulrich: *See—*
Schmitt, Karl-Friedrich; and Boch, Walter, 3,451,036.
Tuchen, Gerd A.: *See—*
Curtis, Hazen, III; and Tuchen, Gerd A.,3,487,340.
Tuchi, Shoji; and Takagi, Takeshi, to Hitachi, Ltd. Method of manufacturing semiconductor devices. 3,484,313, 12-16-69, Cl. 148-187.
Tuchman, Martin, to Railway Express Agency, Incorporated. Axle loading indicator. 3,480,095, 11-25-69, Cl. 177-137.
Tuck, C. M. & Associates, Inc.: *See—*
Tufts, William F., 3,433,308.
Tuck, Charles R.: *See—*
Lindesmith, Harold R.; Sulecki, Richard P.; and Tuck, Charles R.,3,481,026.
Lindesmith, Harold R.; Sulecki, Richard P.; Tuck, Charles R.; and Werner, Richard L.,3,484,931.
Tuck, Charles Worth. Hair cutting shears. 3,456,345, 7-22-69, Cl. 30-233.5
Tuck, James G.: *See—*
Trautwein, Wolfgang, 3,483,844.
Tuck, Lee; and Ewers, Bruce E., to Phillips Petroleum Company. Meter calibration. 3,446,055, 5-27-69, Cl. 582-41.
Tuck, Ralph. Robot irrigator. 3,460,761, 8-12-69, Cl. 239-179.
Tuck, Robert M., to General Motors Corporation. Transmission. 3,426,622, 2-11-69, Cl. 74-730.
Tuck, Robert M., to General Motors Corporation. Split power transmission. 3,433,095, 3-18-69, Cl. 74-687.
Tuck, Robert M.; and Fisher, Mark E., to General Motors Corporation. Torque converter transmission. 3,433,096, 3-18-69, Cl. 74-731.
Tucker, Andrew J.; Kilgore, Marion D.; Crow, Morgan L.; and Simpson, Harry E., to Dresser Industries, Inc. Retrievable packer. 3,460,616, 8-12-69, Cl. 166-120.
Tucker, Archie J., to Eastman Kodak Company. Molded roller post. 3,451,732, 6-24-69, Cl. 308-15.
Tucker, Augustine J. System for reducing frictional drag resistance on a ship hull. 3,455,267, 7-15-69, Cl. 114-67.
Tucker, B T., to Honeywell Inc. Electronic multiprocessing apparatus including common queueing technique. 3,449,722, 6-10-69, Cl. 340-172.5
Tucker, Benjamin Whitehead, Jr. Otis Elevator Company Compact door operator. 3,429,073, 2-25-69, Cl. 49-280.
Tucker, Benjamin Whitehead, Jr., to Otis Elevator Company. Hydraulically actuated door operator. 3,477,177, 11-11-69, Cl. 49-138.
Tucker, Charles J.: *See—*
Luenberger, Frederick O.; and Tucker, Charles J.,3,441,762.
Tucker, Dalton R., to Cope, Cecil E. Ring having a hingedly-secured, crescent- shaped sizing element. 3,465,544, 9-9-69, Cl. 63-15.6
Tucker, Elton M., to United States of America, National Aeronautics and Space Administration. Coupling device. 3,422,390, 1-14-69, Cl. 339-91.
Tucker, Elton M., to United States of America, National Aeronautics and Space Administration. Space suit heat exchanger. 3,425,487, 2-4-69, Cl. 165-46.
Tucker, Frederick T.: *See—*
Licata, Joseph P.; and Tucker, Frederick T.,3,449,559.
Tucker, Guy H.; and Mahaffey, Joseph H., Jr. Optical reading system. 3,443,068, 5-6-69, Cl. 235-61.11
Tucker, Harold A.; and Essig, Henry J., to Goodrich, B. F., Company, The. Enhanced cure of self-curing acrylate rubber compositions. 3,445,403, 5-20-69, Cl. 260-23.
Tucker, Harold A.: *See—*
Dreyfuss, Patricia M.; and Tucker, Harold A.,3,453,347.
Tucker, Henry G.: *See—*
Platt, William G.; and Tucker, Henry G.,3,436,736.
Tucker, Huel C.: *See—*
Parks, James C., Jr.; and Tucker, Huel C.,3,438,243.
Tucker, James W.; and Bradford, James N., to United States of America, Navy. Xenon flash lamp for laser pumping in liquid nitrogen. 3,449,615, 6-10-69, Cl. 313-226.
Tucker, Joseph F.: *See—*
Sullivan, James P.; and Tucker, Joseph F.,3,458,607.
Tucker, Linwood G., Jr.; and Rokop, Joseph, to Koppers Company, Inc. Material handling apparatus. 3,440,145, 4-22-69, Cl. 202-262.
Tucker, Linwood G., to Koppers Company, Inc. Coke oven door. 3,432,400, 3-11-69, Cl. 202-248.
Tucker, Linwood G., to Koppers Company, Inc. Apparatus for remotely shifting regenerative coke oven batteries from rich fuel gas heating to lean fuel gas heating. 3,433,716, 3-18-69, Cl. 202-151.
Tucker, Richard L.: *See—*
Mahoney, Robert J.; and Tucker, Richard L.,3,456,811.
Tucker, Richard W.: *See—*
Shuh, Lewis M.; and Tucker, Richard W.,3,425,393.
Tucker, Robert Frederic: *See—*
Clay, Paul Eugene, Jr.; and Tucker, Robert Frederic,3,442,324.
Tucker, Roy C. Toilet paper holder. 3,482,796, 12-9-69, Cl. 242-55.2
Tucker, Walter M.; and Lewellen, W D. Cylindrical cup-knife sharpening device. 3,423,882, 1-28-69, Cl. 51-105.
Tucker, William F., to Monsanto Company. Methods and apparatus for zone melting. 3,428,436, 2-18-69, Cl. 23-301.
Tucker, William H.: *See—*
Moore, Donald L.; Fricke, Paul M., Jr.; Tucker, William H.; and Spilman, Raymond R.,3,485,525.
Tucker, William, to Lummus Company, The. Inlet cone device and method. 3,477,495, 11-11-69, Cl. 165-1.
Tuckfield, Ralph G., Jr.: *See—*
Scott, Franklin R.; Fleischmann, Hans H. P.; and Tuckfield, Ralph G., Jr.,3,445,722.
Tudor Corporation: *See—*
Tudor, Edward C.; and Goff, James A., 3,431,389.
Tudor, Dulcie O.: *See—*
Tudor, Robert H.,3,462,988.
Tudor, Edward C.; and Goff, James A., to Tudor Corporation. Method for working materials by means of an energy beam. 3,431,389, 3-4-69, Cl. 219-121.
Tudor Metal Products Corporation: *See—*
Payne, Calvin L., Jr., 3,442,511.
Tudor, Robert H., deceased0 (by Tudor, Dulcie O.; administratrix). Anchor setting tool. 3,462,988, 8-26-69, Cl. 72-114.
Tudor, Sidney; Weisstuch, Aaron; and Davang, Samuel H., to United States of America, Navy. Storage battery improvement. 3,447,969, 6-3-69, Cl. 136-26.
Tuemmler, William B.: *See—*
Liao, Hsiang-Peng; Smith, Lawrence Alfred, Jr.; and Tuemmler, William B.,3,454,655.
Wildi, Bernard S.; and Tuemmler, William B.,3,441,075.
Tuetey, Paul, to Les Fabriques d'Assortiments Reunies. Balance staff for a Roskopf watch. 3,469,392, 9-30-69, Cl. 58-140.
Tuetey, Paul, to Les Fabriques d'Assortiments Reunies. Escapement lever for a timepiece. 3,481,140, 12-2-69, Cl. 58-116.
Tuffaloy Products, Inc.: *See—*
Width, Robert B., 3,487,193.
Tuffet, Pierre Edmond. Anti-collision navigational lights. 3,436,724, 4-1-69, Cl. 340-25.
Tuffnell, Glenn W.; and Floreen, Stephen, to International Nickel Company, Inc., The. High strength, ductile maraging steel. 3,453,102, 7-1-69, Cl. 75-123.
Tuffnell, Glenn W.; Novak, Charles J.; and Floreen, Stephen, to International Nickel Company, Inc., The. Process for improving fatigue life of metal. 3,453,153, 7-1-69, Cl. 148-134.
Tuft, Roy E.: *See—*
Strong, Herbert M.; and Tuft, Roy E.,3,478,595.
Tufto, Torleiv, to Sentralinstitutt for Industrielle Forskning. Circuit for regulating a D.C. voltage to an electrical device. 3,469,174, 9-23-69, Cl. 323-22.
Tufts, William F., to Tuck, C. M. & Associates, Inc. Lawn tool. 3,433,308, 3-18-69, Cl. 172-18.
Tuggle, Ray; and Graves, Richard H., to Texaco Inc. Restricting paraffin formation in producing wells. 3,454,464, 7-8-69, Cl. 166-304.
Tuinhof, Anton Dirk: *See—*
Eigeman, Jacobus; and Tuinhof, Anton Dirk,3,476,990.
Tuinila, Raymond P.; and Bayrd, Richard O., to Raytheon Company. Radio frequency absorber. 3,441,933, 4-29-69, Cl. 343-318.
Tuit, John, to McInerney Spring & Wire Company. Secondary wire-bending machine. 3,420,279, 1-7-69, Cl. 140-71.
Tuite, Robert J.; and Miller, Donald N., to Eastman Kodak Company. Brightener compositions. 3,449,257, 6-10-69, Cl. 252-301.2

Tuji, Akira: *See*—
Ito, Yasumichi; Tuji, Akira; and Matano, Susumu,3,482,757.
Tuji, Yoji, to Sumitomo Chemical Company, Ltd. Process for coating pharmaceutical preparations with a hydroxy propyl methyl cellulose-sealing agent moisture-preventing film. 3,477,864, 11-11-69, Cl. 106-151.
Tulagin, Vesvolod: *See*—
Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vesvolod,3,474,019.
Tulagin, Vsevolod: *See*—
Carreira, Leonard M.; and Tulagin, Vsevolod,3,477,934.
Tulagin, Vsevolod; and Labana, Santokh S., to Xerox Corporation. Photoelectrophoretic imaging process using quinacridones. 3,474,020, 10-21-69, Cl. 204-181.
Tulagin, Vsevolod; and Labana, Santokh S., to Xerox Corporation. Electrophoretic imaging process employing metallic lakes of flurescein derivatives as the electrically photosensitive material. 3,485,633, 12-23-69, Cl. 96-89.
Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vsevolod,3,448,025.
Meyer, Donald K.; and Tulagin, Vsevolod,3,420,662.
Stein, Ira S.; Tulagin, Vsevolod; and Mihajlov, Vsevolod S.,3,446,722.
Tull, Roger J.; Weinstock, Leonard M.; and Davis, Paul, to Merck & Co., Inc. 3-Amino-4-phenyl-1,2,5-thiadiazole. 3,484,452, 12-16-69, Cl. 260-306.8
Tull, Roger J.: *See*—
Pollak, Peter I.; and Tull, Roger J.,3,432,502.
Pollak, Peter I.; and Tull, Roger J.,3,444,165.
Pollak, Peter I.; and Tull, Roger J.,3,449,341.
Pollak, Peter I.; and Tull, Roger J.,3,472,847.
Weinstock, Leonard M.; and Tull, Roger J.,3,423,475.
Weinstock, Leonard M.; Tull, Roger J.; and Pollak, Peter I.,3,467,653.
Tull, Vernon M.: *See*—
Ludvig, Ernest; and Tull, Vernon M.,3,455,455.
Tulleners, Anthony J., to Union Oil Company of California. Process for treatment of mineral oil. 3,457,161, 7-22-69, Cl. 208-111.
Tulleners, Harry Werner. Watercraft. 3,430,595, 3-4-69, Cl. 114-61.
Tullman, Edward J.: *See*—
Killinger, Karl H.; and Tullman, Edward J.,3,457,889.
Tulloch, Alexander Patrick: *See*—
Spencer, John Francis Theodore; Tulloch, Alexander Patrick; and Gorin, Philip Albert James,3,445,337.
Tum Suden, Herbert W., Jr.: *See*—
Bienwald, Wolfgang F.; and Tum Suden, Herbert W., Jr.,3,444,498.
Tuma, Alex: *See*—
Rausing, Gad Anders; and Tuma, Alex,3,486,295.
Tuma, Alex, to AB Tetra Pak. Method of and apparatus for sterilizing a web material. 3,440,003, 4-22-69, Cl. 21-58.
Tuma, Alex, to AB Tetra Pak. Method of establishing and maintaining ascpsis in packaging machines. 3,457,968, 7-29-69, Cl. 141-1.
Tuma, Alex, to AB Tetra Pak. Equipment for packaging machines comprising a sealing ring. 3,470,672, 10-7-69, Cl. 53-59.
Tuma, Alex; and Gafvert, Bo E. Apparatus for severing and sealing webs of heat sealable packaging material in a single operation. 3,457,132, 7-22-69, Cl. 156-515.
Tumbusch, Edward H., to Techno-Components Corporation. Infinitely adjustable potentiometer. 3,448,426, 6-3-69, Cl. 338-143.
Tummarello, Natale. Magnetic nut fastening means. 3,425,474, 2-4-69, Cl. 151-41.7
Tummers, Leonard Johan; and van Overbeek, Adrianus Johannes Wilhelmus Marie, to North American Philips Company, Inc. Transistor switching using a tunnel diode. 3,459,967, 8-5-69, Cl. 307-258.
Tummes, Hans; and Meis, Josef, to Ruhrchemie Aktiengesellschaft. Process for the production of primary monols. 3,426,080, 2-4-69, Cl. 260-617.
Tummes, Hans; and Meis, Josef, to Ruhrchemie Akiengesellschaft. Process for the purification of alcohols containing formic acid esters. 3,462,500, 8-19-69, Cl. 260-643.
Tumminio, Gregory L., to Prima Vinyl Molding Co., Inc. Doll construction. 3,442,046, 5-6-69, Cl. 46-161.
Tumpak, John: *See*—
Dashew, Stanley A.; Tumpak, John; and Sutton, Charles D.,3,429,280.
Tundo, Antonio: *See*—
Mangini, Angelo; Mazzanti, Germana; and Tundo, Antonio,3,454,551.
Tune, John Barry, to Lever Brothers Company. Fabric conditioner. 3,451,927, 6-24-69, Cl. 252-8.75
Tung, Chi Fang: *See*—
Vanstrum, Robert C.; Harrington, Thomas L.; and Tung, Chi Fang,3,486,952.
Tunis, Cyril J.: *See*—
Gamblin, Rodger L.; Lord, Philip A.; Welch, Elvin C.; and Tunis, Cyril J.,3,452,213.
King, John H., Jr.; Tunis, Cyril J.; and Marcus, Mitchell P.,3,446,950.
Tunkel, Norman: *See*—
Burkard, Herbert G.; Henselman, Richard O.; Miller, Harold N.; and Tunkel, Norman,3,442,790.
Tunkel, Norman, to Esso Research and Engineering Company. Fuel oil compositions containing grafted polymers. 3,462,249, 8-19-69, Cl. 44-62.
Tunkel, Norman; Hollyday, William C., Jr.; Bartlett, Jeffrey H.; and Gleason, Anthony H., to Esso Research and Engineering Company. Wax crystal modifiers for hydrocarbon oils. 3,449,251, 6-10-69, Cl. 252-52.
Tunkel, Norman; and Miller, Harold N., to Esso Research and Engineering Company. Grafted terpolymers, their process of production, and use as additives for lubricants and fuels. 3,467,597, 9-16-69, Cl. 252-56.
Tunnell, Frank Geoffrey: *See*—
Baines, Frederick; and Tunnell, Frank Geoffrey,3,450,057.
Baines, Frederick; and Tunnell, Frank Geoffrey,3,463,260.
Tunoda, Kozo: *See*—
Ouchi, Shunji; Sowa, Tuneo; Tunoda, Kozo; and Senoo, Saburo,3,464,973.
Tunstall, Wilfred. Safety bottle cap. 3,485,402, 12-23-69, Cl. 215-9.
Tunstall, Wilfred; and Wegner, Albert. Hose coupling tool. 3,422,469, 1-21-69, Cl. 7-1.
Tunzi, Joseph P.: *See*—
Ostrowsky, Efrem M.; and Tunzi, Joseph P.,3,471,054.
Tuomaala, Jorma Aarne Kullervo, to A. Ahlstrom Osakeyhtio. Vibrating screens. 3,471,015, 10-7-69, Cl. 209-346.
Tupper, Myron D., to Omark Industries, Inc. Easily dressed sharpener. 3,465,795, 9-9-69, Cl. 143-32.
Tupper, Wyman Carrick: *See*—
Carlen, Jan-Christer Henric Ovesson; Flaherty, Francis Edward; and Tupper, Wyman Carrick,3,469,972.
Turba, Vittorio; Cameli, Nazzareno; and Sartori, Cuido, to Montecatini Edison S.p.A. Terpolymers of ethylene, a higher alpha-olefin and methylenecyclo-octenes. 3,444,147, 5-13-69, Cl. 260-80.7
Turbak, Albin F.: *See*—
Bridgeford, Douglas J.; and Turbak, Albin F.,3,480,380.
Turbak, Albin F., to Tee-Pak, Inc. Method of treating a sausage casing with a release coating and product resulting therefrom. 3,442,663, 5-6-69, Cl. 99-176.
Turbak, Albin F.; and Rose, Henry J., to Tee-Pak, Inc. Method of producing tubular sausage casings. 3,427,168, 2-11-69, Cl. 99-176.
Furey, Michael J.; and Turbak, Albin F.,3,429,817.
Rose, Henry J.; and Turbak, Albin F.,3,427,169.
Turbanti, Luigi: *See*—
Bramanti, Giancarlo; and Turbanti, Luigi,3,471,573.
Turbo Machine Company: *See*—
Berger, Emil J., Jr.; and Wyatt, William Kirk, 3,422,613.
Berger, Emil J., Jr., 3,445,996.
Berger, Emil J., Jr., 3,482,384.
Carruthers, George A., 3,432,118.
Carruthers, George Alan, 3,451,600.
Wyatt, William Kirk; Mueller, Edward G.; and Hebrank, William H., 3,478,399.
Turbo-Separator A.G.: *See*—
Maurer, Fritz, 3,424,375.
Turbon Ventilatoren- und Apparatebau Gesellschaft mit Beschrankter Haftung: *See*—
Palmer, Michael, 3,428,244.
Turck, Jean Paul, to Societe Anonyme de Telecommunications. Aiming system for the remote guidance of self- propelled missiles toward a target. 3,478,212, 11-11-69, Cl. 250-83.3
Turcksin, Christian H. Article of furniture such as a chair. 3,455,604, 7-15-69, Cl. 297-441.
Turco, Daniel T.: *See*—
Orem, James W.; Lione, Leonard V.; and Turco, Daniel T.,3,472,451.
Turco, Joseph Francis; and Marriott, Jean A., to General Dynamics Corporation. Reclamation process. 3,420,881, 1-7-69, Cl. 260-535.
Turco Manufacturing Company: *See*—
Cross, Earl G., 3,427,024.
Cross, Earl G., 3,448,925.
Turcott, George E., to Sperry Rand Corporation. n-State control circuit. 3,474,262, 10-21-69, Cl. 307-289.
Turcotte, George J. Paddle wheel boat. 3,467,049, 9-16-69, Cl. 115-23.
Turcotte, Maurice W. Cover for dump truck bodies. 3,467,431, 9-16-69, Cl. 296-98.
Turczyn, Alexander, to Sperry Rand Corporation. Thin film memory device employing unipolar bilevel write-read pulses to minimize creep. 3,422,408, 1-14-69, Cl. 340-174.
Turczyn, Alexander, to Sperry Rand Corporation. Partial switching of a magnetic element. 3,441,919, 4-29-69, Cl. 340-174.
Turecki, Anatole; and Vallee, Johnny A., to RCA Corporation. Multiple state logic circuits. 3,482,172, 12-2-69, Cl. 328-205.
Tureskis, Frank A. Hand tool. 3,426,954, 2-11-69, Cl. 228-51.
Turgeon, Joseph A., to I-T-E Circuit Breaker (Canada) Limited. Support structure including criss-cross tie rods for isolated phase bus bar system. 3,459,876, 8-5-69, Cl. 174-99.

Turi, Edith: *See—*
Oswald, Hendrikus J.; Turi, Edith; and Lund, Richard B.,3,425,987.
Turian, Herman H., to Caprini Shoe Corporation. Shoe. 3,448,532, 6-10-69, Cl. 36-25.
Turiansky, Iwan Wolodymyr: *See—*
Kaganov, Alan Lawrence; and Turiansky, Iwan Wolodymyr,3,435,948.
Turik, Vladimir Fedorovich: *See—*
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Turilli, Oreste: *See—*
Gandino, Mario; Merli, Paolo; and Turilli, Oreste,3,443,955.
Turja, Richard H., to Halliburton Company. Hall effect keyer. 3,449,517, 6-10-69, Cl. 178-79.
Turk, Albert. Mop wringer with gear driven rolls. 3,441,973, 5-6-69, Cl. 15-262.
Turk, Harold L.: *See—*
Schwartz, Bernard; and Turk, Harold L.,3,478,340.
Turk, Helmut: *See—*
Reigelmayer, Peter; and Turk, Helmut,3,451,239.
Turk, Herbert: *See—*
Martens, Gerhard; Bauer, Karl; Turk, Herbert; and Schiminski, Herbert,3,487,187.
Turk, Leonard G.; Cantarutti, Armindo; and Breza, Stephen F., to AMK Subsidiary Corporation, mesne. Tire curing press. 3,461,502, 8-19-69, Cl. 18-17.
Turkat, Michael; and Robba, William A., to Pfizer, Chas., & Co., Inc. Method for depositing pyrolytic graphite. 3,442,617, 5-6-69, Cl. 23-209.1
Turkenkopf, Eugene. Sheet form type of book insert. 3,460,744, 8-12-69, Cl. 229-92.1
Turko, John D.: *See—*
Hodgson, Robert F.; Petro, John D.; and Turko, John D.,3,481,364.
Turnage, Rodger Elmo, Jr.; Stebbins, Jerald T.; and Crump, Lawrence R., to Stromberg Datagraphix, Inc. Digital controlled elliptical display. 3,476,974, 11-4-69, Cl. 315-23.
Turnblade, Richard C.: *See—*
Edmonds, Thomas Rhys; Turnblade, Richard C.; and Speen, Gerald B.,3,451,289.
Speen, Gerald B.; and Turnblade, Richard C.,3,446,082.
Speen, Gerald B.; and Turnblade, Richard C.,3,482,454.
Turnblom, John L.; and Turnblom, Warren J. Automatic routing machine for cutting a circular groove in a spool head. 3,455,353, 7-15-69, Cl. 144-14.
Turnblom, Warren J.: *See—*
Turnblom, John L.; and Turnblom, Warren J.,3,455,353.
Turnbull, Donald M., to Pullman Incorporated. Insulated panel and method of making same. 3,446,692, 5-27-69, Cl. 161-69.
Turnbull, Fred G.: *See—*
Bedford, Burnice D.; and Turnbull, Fred G.,3,480,797.
Turnbull, Fred G.; and Espelage, Paul M., to General Electric Company. Auxiliary inverter for generating commutating pulses for a load inverter. 3,487,278, 12-30-69, Cl. 318-227.
Turnbull, Hugh G.; and Winer, Irving G., to Continental Machines, Inc. Means for cutting predetermined lengths of band stock from a coil. 3,457,817, 7-29-69, Cl. 83-522.
Turnbull, John B., to Ford Motor Company. Motor vehicle suspension. 3,486,762, 12-30-69, Cl. 280-104.
Turnbull, John N.; and Gilbert, Ronald J. H., to British Petroleum Company Limited, The. Cyclic adsorptive separation processes. 3,428,552, 2-18-69, Cl. 208-310.
Turnbull, John R., Jr.: *See—*
Murphy, Daniel W.; Turnbull, John R., Jr.; and Walsh, James L.,3,483,398.
Turnbull Marine Design Co., Limited: *See—*
Clay, John A., 3,470,842.
Turnbull, Robert Malcolm: *See—*
Wansbrough, Brian; and Turnbull, Robert Malcolm,3,471,190.
Turnbull, Thomas: *See—*
Buttery, Roger A.; and Turnbull, Thomas,3,420,274.
Turner, Alan Frederick: *See—*
Parsons, David Gordon; and Turner, Alan Frederick,3,478,028.
Turner, Alfred H. Electrode head for electric furnace electrodes. 3,444,305, 5-13-69, Cl. 13-16.
Turner, Allan L. Easily assembled and disassembled motor vehicle. 3,486,765, 12-30-69, Cl. 280-278.
Turner, Allen H.: *See—*
Colvin, Alex D.; Nilssen, Oke K.; and Turner, Allen H.,3,440,466.
Turner, Allen H., to Ford Motor Company. Simultaneous electrostatic deposition and electron bombardment polymerisation of gaseous alpha-beta unsaturated monomers. 3,440,084, 4-22-69, Cl. 117-93.31
Turner, Allen H., to Ford Motor Company. Electron induced deposition of organic coatings. 3,462,292, 8-19-69, Cl. 117-93.31
Turner, Arthur F.: *See—*
Harrick, Nicolas J.; and Turner, Arthur F.,3,436,159.
Turner Brothers Asbestos Company Limited: *See—*
Eddleston, Ian, 3,443,372.
Heron, Gordon F.; Halstead, John O.; and Gettins, Robert B., 3,449,227.
Heron, Gordon F.; and Halstead, John Outram, 3,449,230.
Wicker, George Leonard, 3,461,012.
Turner, Calvin L.: *See—*
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F.,3,426,456.
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F.,3,431,660.
Turner, Carl R.; and Schiff, Peter, to RCA Corporation. Switching type voltage and current regulator, load therefor, and voltage doubling means to start the load. 3,462,643, 8-19-69, Cl. 315-101.
Turner, Charles Roger, to Proctor-Silex Incorporated. Nozzle for spray pump. 3,468,043, 9-23-69, Cl. 38-77.1
Turner, Charles R.; Myers, Walter E.; and Manship, Luther P., to Proctor-Silex, Incorporated. Thermostatic control switch. 3,425,016, 1-28-69, Cl. 337-1.
Turner, Charles R.: *See—*
Schwartz, Walter M., Jr.; Turner, Charles R.; and Eaton, John L., Jr.,3,483,814.
Turner Corporation: *See—*
Suchowolec, Walter T., 3,430,647.
Suchowolec, Walter T., 3,475,110.
Turner, Darrell J.; Chase, Charles A.; and Gardiner, Michael C. S., to United Aircraft Corporation. Tube launched rocket with detaching spin vanes. 3,430,900, 3-4-69, Cl. 244-3.23
Turner, David P. W.: *See—*
Richter, Donald H.; Streimer, Irving; and Turner, David P. W.,3,449,843.
Turner, David W.; and Morrow, Thomas W., to General Motors Corporation. Two axis level detector. 3,421,227, 1-14-69, Cl. 33-206.
Turner, Donald B.; and Hoffman, Ralph A., to Moore Dry Kiln Company of Oregon. Composite tipple device. 3,430,787, 3-4-69, Cl. 214-16.4
Turner, Edward C.; and Poyser, John, to Borg-Warner Corporation. Chain tensioner. 3,463,025, 8-26-69, Cl. 74-242.11
Turner, Edward, Engineering Developments Ltd.: *See—*
Turner, Edward, 3,438,360.
Turner, Edward H., to Bell Telephone Laboratories, Incorporated. Nonreciprocal optical devices. 3,466,121, 9-9-69, Cl. 350-321.
Turner, Edward H., to Bell Telephone Laboratories, Incorporated. Nonreciprocal optical device employing birefringent elements with rotating birefrigent axes. 3,484,151, 12-16-69, Cl. 350-150.
Turner, Edward W., to Phillips Petroleum Company. External and internal falling water film quench of polymer tubing. 3,427,375, 2-11-69, Cl. 264-95.
Turner, Edward W., to Phillips Petroleum Company. Apparatus for blow molding, cutting and sealing. 3,478,388, 11-18-69, Cl. 18-5.
Turner, Edward, to Turner, Edward, Engineering Developments Ltd. Engine camshaft chain drive. 3,438,360, 4-15-69, Cl. 123-90.
Turner, Elbert L.: *See—*
Jackman, Claude A.; and Turner, Elbert L.,3,434,057.
Turner, Estie L. Gutter guard having removable hinges. 3,420,378, 1-7-69, Cl. 210-474.
Turner, Frank E., to Smith-Blair Inc. Plastic pipe saddle. 3,432,188, 3-11-69, Cl. 285-197.
Turner, Frank E.: *See—*
Smith, Telford L.; Turner, Frank E.; and Smyk, Walter M.,3,469,852.
Turner, Frederick James Leslie, to Creed & Company Limited. Receptacles for the cutting or punchings from perforating or punching machines. 3,454,215, 7-8-69, Cl. 232-1.
Turner, Frederick James Leslie; Soper, Arthur John Compton; and Morel, Harold Louis, to Creed & Company Limited. Apparatus for handling sprocket-fed cards and the like. 3,450,321, 6-17-69, Cl. 226-67.
Turner, George L.; Johnson, Gerould A.; and Disbrow, Richard A., to Sherman, H. B., Manufacturing Company. Liquid dispensing apparatus and motor useable for operating same. 3,448,928, 6-10-69, Cl. 239-251.
Turner, George L.; Johnson, Gerould A.; Disbrow, Richard A.; and Nestell, Donald E., to Sherman, H. B., Manufacturing Company. Liquid dispensing apparatus, motor and method. 3,432,102, 3-11-69, Cl. 239-242.
Turner, Gordon C., to Blaw-Knox Company. Rotary scrap chopper. 3,460,228, 8-12-69, Cl. 29-200.
Turner, Herbert H. Auxiliary feeders for excavating and loading means. 3,461,579, 8-19-69, Cl. 37-189.
Turner, Herbert H. Rotary auxiliary feeders for excavating and loading means. 3,473,243, 10-21-69, Cl. 37-189.
Turner, Horace G.; and Wood, Robert S., to Plessey Company Limited, The. Lubrication of rotary pumps intended for the delivery of liquid containing solid contaminants. 3,450,052, 6-17-69, Cl. 103-5.

Turner, Howard M., to Continental Can Company, Inc. Method of and apparatus for lining paper containers. 3,453,162, 7-1-69, Cl. 156-160.
Turner, Howard M., to Continental Can Company, Inc. Method for producing coated containers. 3,457,337, 7-22-69, Cl. 264-98.
Turner, Howard M., to Continental Can Company, Inc. Foamed resin extrusion process employing microencapsulated blowing agents. 3,466,353, 9-9-69, Cl. 264-53.
Turner, Howard M.; and Krizka, Jerry A., to Continental Can Company, Inc. Apparatus for edge coating articles. 3,474,754, 10-28-69, Cl. 118-2.
Turner, James B.: *See—*
Pearce, Harry H.; Turner, James B.; and Wise, Harold L.,3,461,830.
Turner, James K., to American Brattice Cloth Corporation. Coupling for flexible tubing. 3,441,655, 4-29-69, Cl. 174-47.
Turner, James R., to Thiokol Chemical Corporation. Directional control apparatus for rocket motors. 3,441,219, 4-29-69, Cl. 239-265.29
Turner, James W. Thigh type-weather deck survival restraint harness. 3,452,374, 7-1-69, Cl. 9-313.
Turner, Jhn Cameron, to Biorex Laboratories Limited. Tetracyclic triketones. 3,484,477, 12-16-69, Cl. 260-468.5
Turner, Joe E., to Bohnet's Bakery, Mrs., Inc. Method for producing yeast-leavened baked goods. 3,429,712, 2-25-69, Cl. 99-90.
Turner, John Cameron; and Davies, William Alan Mc Farlane, to Biorex Laboratories Limited. Derivatives of glycyrrhetinic acid. 3,452,078, 6-24-69, Cl. 260-468.5
Turner, John Dean, to Burlington Industries, Inc. Method of improving resin finished textiles. 3,473,948, 10-21-69, Cl. 117-62.1
Turner, John E. Tape shear. 3,450,318, 6-17-69, Cl. 225-65.
Turner, John Harry Wallice; Frith, England; and Krug, Pavel, to Hardman & Holden Limited. Bleaching of wood pulp with thiourea dioxide and zinc sulfate. 3,481,828, 12-2-69, Cl. 162-72.
Turner, John Harry Wallice; and Harson, Samuel Edward, to Hardman & Holden Limited. Metal-organic compounds. 3,461,146, 8-12-69, Cl. 260-414.
Turner, John J.: *See—*
McBee, Earl T.; and Turner, John J.,3,459,802.
McBee, Earl T.; and Turner, John J.,3,462,488.
Turner, John L.: *See—*
Passage, Steven; and Turner, John L.,3,448,508.
Turner, John W., Jr., to Jackson, Byron, Inc. Convertible elevator. 3,422,506, 1-21-69, Cl. 24-263.
Turner, John W., Jr., to Jackson, Byron, Inc. Convertible elevator. 3,454,297, 7-8-69, Cl. 294-90.
Turner, John W., Jr.: *See—*
Jones, Taylor L.; and Turner, John W., Jr.,3,458,230.
Turner, John W. Coupling seal for lined tubular arrangement. 3,472,533, 10-14-69, Cl. 285-55.
Turner, Jonathan, to Turner Manufacturing Co. Curtain coating apparatus for applying coating materials. 3,461,840, 8-19-69, Cl. 118-314.
Turner, Kenneth Alan: *See—*
Barringer, Anthony Rene; Pronovost, Joseph Olivier Jacques; and Turner, Kenneth Alan,3,430,221.
Turner, Kenneth Lamar: *See—*
Sennett, Paul S.; Turner, Kenneth Lamar; and Morris, Horton Harold,3,476,576.
Turner, Lawrence Alexander, to Fluid Dynamics (Proprietary) Limited. Self-clearing screening apparatus for use in irrigation and like projects. 3,477,579, 11-11-69, Cl. 210-156.
Turner, Leo Robert. Infant's car bed. 3,436,770, 4-8-69, Cl. 5-94.
Turner, Leonard; and McGrath, Brian Patrick, to British Petroleum Company Limited, The. Catalyst preparation. 3,444,096, 5-13-69, Cl. 252-442.
Turner, Leonard: *See—*
Howman, Eric James; and Turner, Leonard,3,448,163.
Howman, Eric James; Bradshaw, Cristopher Patrick Cadman; and Turner, Leonard,3,424,812.
Williams, Keith Vaughan; and Turner, Leonard,3,485,889.
Turner, Lloyd Bowman; and Harmon, William M., to United Sheel Metal Co., Inc. Folding wall assembly. 3,485,284, 12-23-69, Cl. 160-1.
Turner, Lloyd S., 1/4 to Evanoff, Richard B. 1/4 to Damia, Emil, and 1/4 to Wiser, Emerson. Safety latching bottle closure. 3,441,159, 4-29-69, Cl. 215-9.
Turner, Lloyd S., to Basic Products Development Company, The. Safety closure for a container. 3,450,290, 6-17-69, Cl. 215-9.
Turner, Lloyd S., to Basic Products Development Company, The. Safety container closure. 3,469,725, 9-30-69, Cl. 215-9.
Turner, Lloyd S., to Basic Products Development Company, The. Security closure for a container. 3,472,410, 10-14-69, Cl. 215-9.
Turner, Lloyd S., to Basic Products Development Company, The. Safety closure for a bottle. 3,472,411, 10-14-69, Cl. 215-9.
Turner, Lloyd S., to Basic Products Development Company, The. Container and closure. 3,484,016, 12-16-69, Cl. 220-60.
Turner, Lyman H., to Xerox Corporation. Sheet gripper means for reproduction machine of the pressure-transfer type. 3,427,965, 2-18-69, Cl. 101-132.
Turner, Lyman H., to Xerox Corporation. Pressure transfer reproduction machine. 3,429,259, 2-25-69, Cl. 101-132.
Turner, Malcolm M.; and Cameron, Daniel F., to Continental Oil Company. Distillative purification of aluminum alkyl. 3,428,664, 2-18-69, Cl. 260-448.
Turner Manufacturing Co.: *See—*
Turner, Jonathan, 3,461,840.
Turner, Nan E.: *See—*
Tant, Carl O.; Turner, Nan E.; and Bennett, Edward O.,3,470,096.
Turner, Newton C.: *See—*
Glassman, Joel; and Turner, Newton C.,3,481,054.
Turner, Richard F., to United States of America, Atomic Energy Commission. Fuel segregation loading arrangement in nuclear fuel elements. 3,476,645, 11-4-69, Cl. 176-71.
Turner, Richard G.: *See—*
Clachan, Margaret L.; McGrail, Patrick T.; Turner, Richard G.; and Shephard, Basil R.,3,475,203.
Turner, Robert E.; and Camp, Dennis W., to United States of America, National Aeronautics and Space Administration. Anemometer with braking mechanism. 3,465,584, 9-9-69, Cl. 73-189.
Turner, Robert J.: *See—*
Bacon, Louis; and Turner, Robert J.,3,457,926.
Turner, Robert K., to Tillotson Manufacturing Company, The. Fuel pump for charge forming apparatus. 3,424,091, 1-28-69, Cl. 103-44.
Turner, Stanley Berry; and Challis, Kenneth Ernest, to Plessey Company Limited, The. Rotary-displacement compressors. 3,430,848, 3-4-69, Cl. 230-210.
Turner, Thomas C.; and McIntosh, Lynden Y. Universal trailer vehicle. 3,480,320, 11-25-69, Cl. 296-10.
Turner, Walter S., to Lake Park Tool & Die, Inc. Storm door latch with integral lock. 3,425,728, 2-4-69, Cl. 292-153.
Turner, Warren H.: *See—*
Albinak, Marvin J.; and Turner, Warren H.,3,440,172.
Turner, William B.: *See—*
Alonso, Ramon L.; Oleksiak, Robert E.; and Turner, William B.,3,451,129.
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian,3,457,274.
Norris, Geoffrey Lightfoot Floyd; Speake, Roy Neville; and Turner, William Brian,3,464,891.
Turner, William C.: *See—*
Fountain, Bruce A.; Johnson, Neil E.; and Turner, William C.,3,472,474.
Turner, William E.; and Ragsdale, George S., to Container Corporation of America. One-piece hat box insert. 3,422,951, 1-21-69, Cl. 206-8.
Turner, William Tom, to Rootes Motors Limited. Internal combustion engines. 3,486,595, 12-30-69, Cl. 192-0.092
Turnicky, Walter: *See—*
Messa, Matthew A.; and Turnicky, Walter,3,483,979.
Turnley, George E., Jr.: *See—*
Thornburg, Francis L.; and Turnley, George E., Jr.,3,446,177.
Turnock, Arthur George, to Electromagnets Limited. Drum magnetic separators. 3,438,495, 4-15-69, Cl. 209-219.
Turocy, Elmer W.: *See—*
Carr, Hugh B.; and Turocy, Elmer W.,3,442,484.
Turpen, Russell L., to Compass Container Company, Inc. Cargo container door latching arrangement. 3,451,705, 6-24-69, Cl. 292-218.
Turpen, Russell L., to Whittaker Corporation, mesne. Wall support construction for cargo containers. 3,472,412, 10-14-69, Cl. 217-69.
Turpen, Russell L., to Compass Container Company, Inc. Cover fastening means for a cargo container. 3,478,919, 11-18-69, Cl. 220-55.
Turpin, Edward Thomas, to SCM Corporation, mesne. Urethane modified epoxy ester resin compositions and products. 3,478,126, 11-11-69, Cl. 260-835.
Turpin, Eugene W. Wheel centering tool. 3,463,208, 8-26-69, Cl. 144-288.
Turrel, Howard E. Food fryer. 3,483,815, 12-16-69, Cl. 99-409.
Turriere, Jean Emile, to International Standard Electric Corporation. System for measuring elapsed time. 3,470,464, 9-30-69, Cl. 324-68.
Turro, Jerome C. Combination collar-clamp and shaft coupling. 3,463,520, 8-26-69, Cl. 287-52.08
Turshen, Richard S.: *See—*
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S.,3,429,068.
Turtle, Quentin C., to General Signal Corporation. Speed controller for electric motors. 3,452,264, 6-24-69, Cl. 318-245.
Turtle, Quentin C.: *See—*
Silva, John R.; and Turtle, Quentin C.,3,465,276.
Turton, Peter: *See—*
Acton, John R.; and Turton, Peter,3,461,316.
Turton, Walter; and Mazzone, Charles, to Stevens, J. P., & Co., Inc. Textured textile material. 3,479,710, 11-25-69, Cl. 28-72.

Turtora, John; and Charitat, Jean, Jr., to Radiation Systems Incorporated. High accuracy temperature measuring devices. 3,447,376, 6-3-69, Cl. 73-359.
Turula, Eugene; Lynch, Geraldine B.; and Gilkeson, David C., to Minnesota Mining and Manufacturing Company. High aperture recording lens system having four lens elements. 3,454,327, 7-8-69, Cl. 350-223.
Turvill, Paul A.: *See—*
Norrie, Robert C.; and Turvill, Paul A.,3,466,104.
Turzillo, Lee A. Method of making sand drains in situ. 3,426,538, 2-11-69, Cl. 61-11.
Turzillo, Lee A. Method of making concrete retaining wall in earth situs. 3,438,207, 4-15-69, Cl. 61-35.
Turzillo, Lee A. Apparatus for installing anchoring or supporting columns in situ. 3,438,212, 4-15-69, Cl. 61-53.52
Turzillo, Lee A. Method and means for forming cast-in-place reinforced concrete pile. 3,464,216, 9-2-69, Cl. 61-53.64
Turzillo, Lee A. Means for making concrete piles. 3,470,701, 10-7-69, Cl. 61-63.
Turzillo, Lee A. Method and means for forming concrete piles. 3,485,052, 12-23-69, Cl. 61-53.66
Tusa, John; and Janssen, Johannes Gerardus, to Bata Shoe Company Inc. Manufacture of footwear. 3,441,643, 4-29-69, Cl. 264-244.
Tuschhoff, John V.: *See—*
Robinson, John W.; Bookwalter, George N.; and Tuschhoff, John V.,3,437,493.
Tuschhoff, John V.; Kessinger, Gene L.; and Hanson, Cleo E., to Staley, A. E., Manufacturing Company. Phosphorous oxyhalide cross-linked hydroxypropyl starch derivative. 3,422,088, 1-14-69, Cl. 260-233.3
Tuschman, Moe, to Sarong, Inc. Brassiere. 3,433,229, 3-18-69, Cl. 128-494.
Tuska, James W.: *See—*
Robbi, Anthony D.; and Tuska, James W.,3,469,245.
Tuskos, Michael E. Drapery manufacturing device. 3,439,438, 4-22-69, Cl. 38-104.
Tute, Michael S.: *See—*
Gildersleve, David R.; and Tute, Michael S.,3,437,662.
Gildersleve, David R.; and Tute, Michael S.,3,455,993.
Tutelman, David M.: *See—*
Benowitz, Paul; Ignatowitz, Michael; and Tutelman, David M.,3,466,397.
Tuthill, Edward G.: *See—*
Lundgreen, Michael W.; Tuthill, Edward G.; and Majerus, John B.,3,478,355.
Tuthill, Edwin J., to United States of America, Atomic Energy Commission. Magnetically stabilized fluidized bed. 3,440,731, 4-29-69, Cl. 34-1.
Tuthill, Edwin J.; and Reilly, James J., Jr., to United States of America, Atomic Energy Commission. Apparatus for continuous chromatographic separations. 3,482,376, 12-9-69, Cl. 55-197.
Tuthill, Jay D.; Kulka, Nicholas; and Arban, Bert S., to Mannington Mills. Method for the manufacture of embossed vinyl floor coverings and products obtained thereby. 3,428,471, 2-18-69, Cl. 117-10.
Tuthill, John B., to American Dish Service of Kansas City Missouri, Inc. Automatic detergent, rinse additive and sterilizer dispenser for dishwashers. 3,478,757, 11-18-69, Cl. 134-57.
Tuthill Pump Company: *See—*
Bangs, Walter J., 3,478,693.
Richardson, William D., 3,422,980.
Tutino, Dominick J. Key holder and ejector. 3,427,834, 2-18-69, Cl. 70-414.
Tuttle, Charles E., Jr.: *See—*
Barr, Norman E.; and Tuttle, Charles E., Jr.,3,474,729.
Tuttle, H. W., & Company: *See—*
Graves, Howard K., 3,449,552.
Tuttle, Inc.: *See—*
Davidson, George L., 3,447,630.
Tuttle, Malcolm H. Apparatus for prillin. 3,461,489, 8-19-69, Cl. 18-2.6
Tuttle, Robert S., to Wurlitzer Company, The. Two-speed turntable for automatic phonograph. 3,455,560, 7-15-69, Cl. 274-10.
Tuxco Corporation: *See—*
Blomgren, Oscar C., Jr., 3,423,998.
Tuzson, John, to Borg-Warner Corporation. Piston pump with remote control of displacement. 3,486,454, 12-30-69, Cl. 103-38.
Tveitan, Willy: *See—*
United States of America,National Acronautics and Space Administration, Administrator, 3,422,403.
Tveter, Elmer C.: *See—*
Long, Ray S.; and Tveter, Elmer C.,3,432,255.
Tveter, Richard S., to Himmelstein, Sidney. Rotary transformer with integral bearing. 3,441,886, 4-29-69, Cl. 336-120.
Tveter, Richard S.; and Himmelstein, Sydney, said Tveter assor. to said Himmelstein. Loop tape transport mechanism. 3,441,187, 4-29-69, Cl. 226-95.
Tveteras, Martin: *See—*
Eriksson, Karl-Axel; and Tveteras, Martin,3,486,073.
Twardzik, Horst, to Kienzle Apparate GmbH. Remote controlled operating arrangement for typewriters. 3,452,852, 7-1-69, Cl. 197-19.
Tweddell, James C.: *See—*
Gordon, Robert G.; and Tweddell, James C.,3,434,235.
Tweed, Rexford E., to United-Carr Incorporated, mesne. Method of testing the porosity of coated articles. 3,459,505, 8-5-69, Cl. 23-230.
Tweedy, Robert H., to United States Steel Corporation. Power actuated tractor hitch. 3,432,184, 3-11-69, Cl. 280-479.
Tweedy, Robert Hugh; and Edman, John Harold, to Deere & Company. Tractor roll bar and canopy. 3,455,598, 7-15-9, Cl. 296-102.
Twele, Gunther, to Kalle Aktiengesellschaft. Installation for protecting surf-endangerer coastal sectors. 3,455,112, 7-15-69, Cl. 61-3.
Twelves, Robert Ralph, to Du Pont de Nemours, E. I., and Company. Preparation of dichlorophenyl isocyanate. 3,449,397, 6-10-69, Cl. 260-453.
Twentieth Century Products Corp.: *See—*
Hudson, Harry W., 3,443,262.
Twentieth Century Tool Co.: *See—*
Harman, Charles K., 3,451,294.
Twentieth Century-Fox Film Corporation: *See—*
Halprin, Sol; and Smith, Morris A., 3,451,748.
Twenty Nine Fifteenth Street Corporation: *See—*
Fain, Jacob M.; and McDonnell, Edward, 3,433,750.
Twersky, David, to Esterline Corporation. Stock feeding apparatus. 3,464,203, 9-2-69, Cl. 60-52.
Twidale, William H., to Massey-Ferguson Industries Limited. Multiple section earthworking implement. 3,481,408, 12-2-69, Cl. 172-311.
Twin City Testing Corporation: *See—*
Joffe, Boris B.; and Tiebor, John E., 3,483,375.
Joffe, Boris B.; and Tiebor, John E., 3,483,382.
Twin Disc Clutch Company: *See—*
Hilpert, Conrad R., 3,438,469.
Hilpert, Conrad R., 3,446,323.
Twin Disc, Incorporated: *See—*
Aschauer, George R., 3,463,281.
Black, James B.; and Luzaich, Samuel, 3,447,397.
Hilpert, Conrad R.; and Black, James B., 3,420,344.
Hilpert, Conrad R.; and De Long, Roger G., 3,469,663.
Hilpert, Conrad R., 3,472,348.
Hilpert, Conrad R., 3,482,668.
Krawczyk, Henryk S.; and Steinhagen, Hrst G., 3,425,293.
Overson, Martin Lee, 3,472,350.
Sieverkropp, Earl G., 3,470,988.
Swanson, James P., 3,460,656.
Twine, Charles J., to Alco Standard Corporation, mesne. Burner tube assembly for heat treating furnace. 3,425,675, 2-4-69, Cl. 263-41.
Twine, Charles J.: *See—*
Seelandt, Karl H.; and Twine, Charles J.,3,421,747.
Twist, Henry A.: *See—*
Pease, Donald L.; and Twist, Henry A.,3,430,606.
Twist, Walter, to British Titan Products Company Limited. Process for the production of pigmentary Ti O_2. 3,464,791, 9-2-69, Cl. 23-202.
Twitchett, Harry James: *See—*
Nicholas, Andrew John; and Twitchett, Harry James,3,465,021.
Twohy, Frank: *See—*
Lindberg, Richard W.; and Cade, John W., 3,474,434.
Twomey, Thomas J., to General Electric Company. Sound-reducing housing for alternating current electric apparatus. 3,451,503, 6-24-69, Cl. 181-33.
Twyford Laboratories Limited: *See—*
Work, Elizabeth; and Knox, Kenneth William, 3,438,861.
Work, Elizabeth, 3,438,862.
Work, Elizabeth; and Knox, Kenneth William, 3,438,865.
Ty, Henry; and Dubuc, Rene A., to Texas Instruments, Incorporated. Electrical contact tape. 3,459,516, 8-5-69, Cl. 29-191.6
Tyco Laboratories, Inc.: *See—*
Di Benedetto, Bernard A.; and Mlavsky, Abraham I., 3,429,818.
Labelle, Harold E., Jr., 3,471,266.
Wright, Donald E., 3,486,374.
Tyczkowski, Edward A.: *See—*
Gardner, David M.; Oesterling, Robert E.; and Tyczkowski, Edward A.,3,441,619.
Tydeman Machine Works, Inc.: *See—*
Phillips, Edward H., 3,442,290.
Phillips, Edward H., 3,469,625.
Tye, Gene, to General Electric Company. Kinematic sight. 3,427,437, 2-11-69, Cl. 235-61.5
Tyerman, David J. Bushing centralizer for automobile front wheel suspension. 3,471,164, 10-7-69, Cl. 280-96.2
Tygart, William H., to Lockheed Aircraft Corporation. System for FM transmission of cardiological data over telephone lines. 3,426,150, 2-4-69, Cl. 179-2.
Tygart, Willian H., to Lockheed Aircraft Corporation. Apparatus for reception of remotely transmitted data utilizing a frequency modu-

lated carrier signal within the audio speech range. 3,426,151, 2-4-69, Cl. 179-2.
Tykulsky, Alexander; and Kingsford-Smith, Charles A., to Hewlett-Packard Company. High frequency oscillaor employing a transmission line having an electrically adjustable section of ground plane. 3,444,480, 5-13-69, Cl. 331-96.
Tyl, Miloslav: *See*—
Boucek, Miroslav; Pospisil, Frantisek; Elias, Jiri; Tyl, Miloslav; and Mikulecky, Karel,3,462,936.
Melkonjan, Gagik; Mikaeljan, Spartak; Elias, Jiri; Tyl, Miloslav; and Musil, Petr,3,452,209.
Tyler, Arthur W., to Itek Corporation. Identification system for edge coated cards. 3,425,048, 1-28-69, Cl. 340-174.1
Tyler, Arthur, to Bulpitt & Sons Limited. Electrically heated appliances having thermal cut-outs. 3,444,355, 5-13-69, Cl. 219-331.
Tyler, Carl P., to Esso Research and Engineering Company. Self-cleaning mercury electrode. 3,475,310, 10-28-69, Cl. 204-195.
Tyler, Forrest E. Flying top. 3,473,256, 10-21-69, Cl. 46-84.
Tyler, Geoffrey James: *See*—
Carter, John Anthony; and Tyler, Geoffrey James,3,475,387.
Cowell, Clifton Douglas; and Tyler, Geoffrey James,3,485,805.
Tyler, Hayward, & Company Limited: *See*—
Ivanoff, Victor, 3,421,445.
Tyler, Howard V.: *See*—
Gowan, Richard L.; and Tyler, Howard V.,3,458,660.
Tyler, Howard V.; and Gowan, Richard L., to United States of America, Navy. Pulse width sensor. 3,454,788, 7-8-69, Cl. 307-234.
Tyler, Howard V.; and Gowan, Richard L., to United States of America, Navy. Pulse height sensor. 3,454,789, 7-8-69, Cl. 307-235.
Tyler, Hugh J., to Robertshaw Controls Company. Valve construction. 3,439,710, 4-22-69, Cl. 137-612.
Tyler, John M., to United Aircraft Corporation. Aircraft launching. 3,428,273, 2-18-69, Cl. 244-63.
Tyler, John M.; Havens, Frederick D.; Hickok, Richard C.; and Feder, Ernest, to United Aircraft Corporation. Aircraft launching thrust augmentation system. 3,420,053, 1-7-69, Cl. 60-39.01
Tyler, Laurence W., to Union Carbide Corporation. Carbonaceous cement. 3,441,529, 4-29-69, Cl. 260-19.
Tyler, Len A.: *See*—
Balint, Andrew; Bixby, William E.; and Tyler, Len A.,3;424,579.
Smitzer, Louis A.; Tyler, Len A.; Hines, Walter; and Bixby, William E.,3,442,585.
Tyler, Loren E., to Letco, Inc. Dual closure means for agricultural transport devices. 3,450,431, 6-17-69, Cl. 296-100.
Tyler, Merle D.; Bonnema, Robert W.; and Higgins, Archie H., to Uptime Corporation. Coded card reading and selecting apparatus. 3,437,201, 4-8-69, Cl. 209-110.
Tyler, Nelson, to NTT Enterprises, Inc. Vibration damping mount. 3,467,350, 9-16-69, Cl. 248-179.
Tyler, Roy Hurshel, 50% to Tozer, J. R., Jr. Oscillatory scanning camera. 3,457,367, 7-22-69, Cl. 178-7.81
Tyler, Stanley R., to Dowty Fuel Systems Limited. Centrifugal pumping apparatus. 3,486,458, 12-30-69, Cl. 103-97.
Tyler, Tommy N.: *See*—
Mahnken, Walter J.; Niccore, Fred W.; and Tyler, Tommy N.,3,458,096.
Stauffer, Norman L.; Shafer, Donald E.; and Tyler, Tommy N.,3,434,158.
Tyler, W. S., Incorporated: *See*—
Hukki, Risto Tapani, 3,455,450.
Peterson, Joseph Le Roy, 3,438,490.
Tyler, William J. L.: *See*—
Horsey, Sydney F.; and Tyler, William J. L.,3,432,097.
Mahy, Raymond Marcel; and Tyler, William J.,3,470,970.
Tyndale, Clyde L.; Efinger, Gerald H.; and Raymond, Samuel O., to Benthos, Inc. Multichannel underwater acoustic telemetering system. 3,444,510, 5-13-69, Cl. 340-5.
Tyndall, Maurice. Therapeutic supporting device. 3,431,020, 3-4-69, Cl. 297-378.
Tyran, Leo W., to Du Pont de Nemours, E. I., and Company. Production of polymeric alcohols by the thermal decarbonylation of polymeric formate esters. 3,487,059, 12-30-69, Cl. 260-85.7
Tyree, Lewis, Jr. Reciprocating pump. 3,430,576, 3-4-69, Cl. 103-178.
Tyree, Lewis, Jr., to Liquid Carbonic Corporation. Cryogenic vaporizer. 3,435,623, 4-1-69, Cl. 62-52.
Tyrer, Charles R., 1/2 to Perry, R. & Company Limited. Lifebelts and the like. 3,445,869, 5-27-69, Cl. 9-340.
Tyrner, Joseph M.; and Farrell, John J. Roll for conveying webs. 3,469,751, 9-30-69, Cl. 226-25.
Tyrrell, Albert Ralph. Tubular combustion chamber for an MHD generator. 3,478,235, 11-11-69, Cl. 310-11.
Tyrrell, Albert Ralph. Tubular combustion chamber for an MHD generator. 3,478,236, 11-11-69, Cl. 310-11.
Tyrrell, Colin John Nelson, to International Nickel Company, Inc., The. Deposition of Platinum-group metals. 3,480,523, 11-25-69, Cl. 204--043
Tyrrell, Frederick S., to National Distillers and Chemical Corporation. Plastic sealing apparatus using combined heat and ultra-sonic energy. 3,454,450, 7-8-69, Cl. 156-499.
Tyrrell Industries, Inc.: *See*—
Tyrrell, Wallace B., Jr., 3,423,760.
Tyrrell, John J. Method of process color printing with water-base inks. 3,470,054, 9-30-69, Cl. 156-210.
Tyrrell, Vincent C.; and Bailey, Jay R., to McCulloch Corporation. Torque wrench. 3,485,117, 12-23-69, Cl. 81-52.4
Tyrrell, Wallace B., Jr., to Tyrrell Industries, Inc. Method of dress shield manufacture. 3,423,760, 1-28-69, Cl. 2-58.
Tyson, Clayton L.: *See*—
Eminger, Robert J.; and Tyson, Clayton L.,3,481,372.
Tyson, Kenneth A. Wall construction. 3,435,567, 4-1-69, Cl. 52-125.
Tyson, Ronald Saylor: *See*—
Shown, John Hampton; and Tyson, Ronald Saylor,3,454,604.
Tysver, Oliver J.; Keinanen, Henry J.; and Gore, Ernest M., to Continental Can Company, Inc. Contour checking device. 3,462,015, 8-19-69, Cl. 209-80.
Tyszka, Jerzy Marek: *See*—
Judeinstein, Andre Jacques; and Tyszka, Jerzy Marek,3,438,012.
Tyszkowski, Zygmunt: *See*—
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Tytus, Hulbert T. Weighing system with sealed enlosure. 3,444,943, 5-20-69, Cl. 177-180.
Tzentis, Leonidas S., to Dow Chemical Company, The. Capillary viscometer. 3,435,665, 4-1-69, Cl. 73-56.
U-S Electric Manufacturing Company: *See*—
Ross, Donald R., Jr., 3,439,131.
UA Engineering Limited: *See*—
Angier, Richard, 3,475,912.
Uarco Incorporated: *See*—
Kay, Lewis D., 3,451,880.
Pine, Robert M., 3,484,031.
Steidinger, Donald J., 3,437,259.
Uban, Earl C., to National Steel Corporation. Movable-chamber heating apparatus with seal. 3,459,410, 8-5-69, Cl. 263-3.
Ubank, Raymond George: *See*—
Llewelyn, Geirionydd; and Ubank, Raymond George,3,432,280.
Llewelyn, Geirionydd; and Ubank, Raymond George,3,446,655.
Ubbels, Jacob; and Staal, Hermannes Jan, to Bedrijven Van Het Nederlands Instituut Voor. Apparatus for separating whey from curd and discharging it into molds. 3,438,131, 4-15-69, Cl. 31-46.
Ube Industires, Ltd.: *See*—
Murase, Tamotsu; Mikami, Ichiro; and Tamura, Moriyosi, 3,479,399.
Ube Industries Ltd.: *See*—
Oka, Katsuaki; Tokiura, Shohei; Yamamoto, Tatsuo; Sasaki, Yoshikazu; and Ishida, Hideo, 3,455,885.
Sugiura, Shotaro; Ueno, Haruo; Nakatomi, Shunsuke; Ishikawa, Hideo; and Inoue, Tosihiro, 3,423,387.
Sugiura, Shotaro; Tasaka, Fumio; Ueno, Haruo; Kono, Minoru; Katagiri, Nobuyuki; and Sakinaga, Nobumasa, 3,459,726.
Tokiura, Shohei; Ishida, Hideo; Sasaki, Yoshikazu; and Yamamoto, Tatsuo, 3,454,537.
Yamamoto, Hisao; and Iwaasa, Noboru, 3,466,152.
Uber, Paul W., to United States of America, National Aeronautics and Space Administration. Tape recorder. 3,460,781, 8-12-69, Cl. 242-192.
Uberbacher, Edward C.; and Bolt, Murray H., to International Business Machines Corporation. Directional coupler unit having a plurality of stripline couplers. 3,460,069, 8-5-69, Cl. 333-10.
Uberbacher, Edward C.; and Lott, James S., Jr., to International Business Machines Corporation. Plug-in panel lamp. 3,425,027, 1-28-69, Cl. 339-145.
Ublacker, Horst, to Terrametrics, a division of Harrison, Patrick, Inc. Borehole extensometer. 3,483,745, 12-16-69, Cl. 73-151.
Ubukata, Susumu; Mizutani, Yasukazu; and Iyoda, Shozo, to said Ubukata, Susumu. Flashing-light indication system for vehicles. 3,487,358, 12-30-69, Cl. 340-81.
UCB (Union Chimique-Chemische Bedrijven) S.A.: *See*—
Bigot, Bernard, 3,455,649.
Labruyere, Robert Maximilien, 3,438,112.
Morren, Henri, 3,423,401.
Morren, Henri, 3,466,321.
Van Eygen, Cyrille; and Carpentier, Raymond, 3,470,124.
UCB (Union Chimique-Chemische Bedrijven)S.A.: *See*—
Morren, Henri, 3,459,738.
UCB (Union-Chimique-Chemische Bedrijven) S.A.: *See*—
Van Eygen, Cyrille; and Weerens, Arthur, 3,429,947.
UCB(Union Chimique-Chemische Bedrijven) S.A.: *See*—
Morren, Henri, 3,422,102.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi, to Tenshin Manicounting Machine Co. (Tenshin Kahei Keisanki K.K.). Coin stacking assembly for use with a coin wrapping machine. 3,454,017, 7-8-69, Cl. 133-8.

Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi, to Tenshin Manicounting Machine Co. (Tenshin Kahei Keisanki K.K.). Coin handling apparatus and means to detect irregularities in the operation thereof. 3,469,365, 9-30-69, Cl. 53-54.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkihi; and Osako, Kyoichi, to Tenshin Manicounting Machine Co. (Tenshin Kahei Keisanki K.K.). Coin stacking apparatus for a coin wrapping machine. 3,476,125, 11-4-69, Cl. 133-1.
Uchida, Kazuo: *See—*
Eguchi, Yasukata; and Uchida, Kazuo,3,460,498.
Uchida, Kosaku: *See—*
Tatsuzawa, Yoshinobu; Uchida, Kosaku; and Mayumi, Kazuaki,3,467,876.
Uchida, Ryo, to Sigma Research, Incorporated. Adaptor for interchangeable lens with automatic diaphragm mechanism. 3,470,809, 10-7-69, Cl. 95-64.
Uchida, Shiro: *See—*
Honda, Soichiro; and Uchida, Shiro,3,443,341.
Uchida, Takeshi: *See—*
Kawabata, Yoshikazu; Uchida, Takeshi; and Suzuki, Masatoshi,3,472,943.
Uchida, Teiji, to Nippon Electric Company Limited. Low-noise optical maser of the internal modulation type. 3,423,588, 1-21-69, Cl. 250-199.
Uchida, Teiji, to Nippon Electric Company, Limited. Modulator for a light beam. 3,432,223, 3-11-69, Cl. 350-150.
Uchida, Teiji, to Nippon Electric Company, Limited. Optical maser device of the internal modulation type for pulse signal transmission. 3,467,915, 9-16-69, Cl. 331-94.5
Uchimaru, Kiyoshi; and Otani, Tetsuro, to Nippon Electric Company, Limited. Electron discharge device construction. 3,423,632, 1-21-69, Cl. 315-39.69
Uchimaru, Kiyoshi; and Tsuji, Tetsuo, to Nippon Electric Company Limited. Electron discharge device filament structure. 3,461,337, 8-12-69, Cl. 313-278.
Uchino, Koichi: *See—*
Yasuda, Kazuo; and Uchino, Koichi,3,475,099.
Uchiyama, Yoshio: *See—*
Noguchi, Teruhisa; Komoto, Keisuke; Uchiyama, Yoshio; and Kano, Saburo,3,442,929.
Ucko, Bernard: *See—*
Pelizzoni, Winton J.; Ucko, Bernard; and Pekar, Frank J., Jr.,3,453,995.
Ucko, Franz; and Airhart, Durwood L., to Control Data Corporation. Apparatus for generating fine line, discrete tracks. 3,457,012, 7-22-69, Cl. 355-103.
Uda, Hiroshi, to Sumitomo Electric Industries, Ltd. Brake holder with throttle release. 3,439,782, 4-22-69, Cl. 192-3.
Uda, Shukichi; and Igarashi, Yutaro. Automatic book page turning apparatus. 3,475,844, 11-4-69, Cl. 40-104.
Uddeholms Aktiebolag: *See—*
Deacon, Roger Frederick, 3,425,877.
Froden, Carl Erik Holger, 3,450,610.
Holm, Kurt Anders; and Hansson, Rune Einar, 3,479,252.
Holm, Per Tore, 3,455,810.
Udea, Hirozo: *See—*
Nishio, Fumihiko; Nishio, Daijiro; Watarai, Syo; Hayakawa, Yoshihide; Kato, Kirotetu; and Udea, Hirozo,3,445,231.
Udec Limited: *See—*
Jenner, Harold; and Madley, Jack R., 3,421,616.
Udes, Benjamin. Method of making false eyelashes. 3,454,015, 7-8-69, Cl. 132-5.
Udesen, Duane L. Multiple photograph mount. 3,481,063, 12-2-69, Cl. 40-158.
Udic Limited: *See—*
Arber, Rowland Sackville Preston, 3,455,644.
Udvardy Nagy, Eva nee Oserei Pehany: *See—*
Wack, Geza; Perenyi, Tibor; Udvardy Nagy, Eva nee Oserei Pehany; and Zsoka, Erzsebet nee Somkuti,3,483,086.
Udy, Lex L.: *See—*
Cook, Melvin A.; Udy, Lex L.; and Clay, Robert B.,3,473,983.
Jessop, Harvey A; and Udy, Lex L.,3,485,686.
Udylite Corporation, The: *See—*
Brown, Henry; Becking, Donald H.; and Valayil, Sylvester P., 3,432,408.
Brown, Henry; and Tomaszewski, Thaddeus W., 3,471,271.
Jackson, William H.; and Kayser, Richard C., 3,429,797.
Six, Rudolf E., 3,421,051.
Uebayashi, Yuzuru; Sakimoto, Reiji; Ishii, Keiichiro; Asada, Mitsuo; and Taniguchi, Takuzo, to Nippon Soda Kabushiki Kaisha. Method of controlling and eradicating mites. 3,427,385, 2-11-69, Cl. 424-226.
Ueberdick, Ralf: *See—*
Jacob, Ingolf; and Ueberdick, Ralf,3,480,709.
Ueberwasser, Hellmut: *See—*
Anner, Georg; Meystre, Charles; Kalvoda, Jaroslav; and Ueberwasser, Hellmut,3,431,191.
Wettstein, Albert; Anner, Georg; Heusler, Karl; Kalvoda, Jaroslav; and Ueberwasser, Hellmut,3,458,539.
Ueberwasser, Helmut: *See—*
Anner, Georg; Ueberwasser, Helmut; and Meystre, Charles,3,423,437.
Uecker, Donald F.: *See—*
Cornell, William D.; and Uecker, Donald F.,3,420,524.
Ueda, Hiromi: *See—*
Tanaka, Kazuo; Yoshida, Hirohiko; Kato, Yoshiaki; and Ueda, Hiromi,3,462,939.
Ueda, Hiroshi: *See—*
Nozawa, Masao; Sako, Kiyoshi; and Ueda, Hiroshi,3,446,188.
Sato, Takayoshi; and Ueda, Hiroshi,3,455,227.
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Minoru, Ohtake,3,450,969.
Sato, Takayoshi; Ueda, Hiroshi; Nakatani, Atsutada; and Otake, Minoru,3,461,786.
Ueda, Hiroyuki: *See—*
Ooue, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu,3,475,096.
Oouc, Shingo; Ueda, Hiroyuki; and Hashiue, Masakazu,3,480,365.
Ueda, Keizo; Ando, Satoshi; and Kinoshita, Tetsuo, to Kanegafuchi Boseki Kabushiki Kaisha, and Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Method of producing improved polyamidic fibrous material having three dimentional crimpability. 3,463,847, 8-26-69, Cl. 264-168.
Ueda, Keizo; Nagata, Koetsu; Fujita, Kentaro; and Iwamoto, Kazukiyo, to Kanegafuchi Boseki Kabushiki Kaisha, and Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Spinneret and nozzle assembly for the manufacture of composite filaments. 3,425,091, 2-4-69, Cl. 18-8.
Ueda, Kenichi; Yasunaga, Hidetoshi; and Komatsu, Kouei, to Japan Synthetic Rubber Co. Ltd. Method for polymerizing butadiene; a catalyst for use in said method and a method for producing the catalyst. 3,432,517, 3-11-69, Cl. 260-94.3
Ueda, Kenichi: *See—*
Matsumoto, Tsuyoshi; Ito, Tokuo; Komatsu, Kouei; Yasunaga, Hidetoshi; and Ueda, Kenichi,3,471,462.
Yasunaga, Hidetoshi; Ichikawa, Tatsuo; Yamato, Hiroaki; Ikeda, Mitsuru; Ozawa, Nobuo; and Ueda, Kenichi,3,464,965.
Ueda, Kenji; Horiguchi, Tsutomu; and Hirata, Minoru, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of inhibiting fouling of sea water conduits and the like by marine organisms. 3,458,413, 7-29-69, Cl. 204-147.
Ueda, Kenji; and Ogawa, Hiroshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Method and apparatus for automatic electric corrosion proofing. 3,477,931, 11-11-69, Cl. 204-147.
Ueda, Kenzo: *See—*
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,428,651.
Kato, Takeaki; Ueda, Kenzo; Horie, Sadao; Mizutani, Toshio; Fujimoto, Keimei; and Okuno, Yositosi,3,440,245.
Ueda, Kuniaki: *See—*
Moroe, Tatsuo; Komatsu, Akira; Matsui, Takeshi; and Ueda, Kuniaki,3,433,839.
Ueda, Kunihiro: *See—*
Shindo, Noboru; Ura, Yasukazu; Mori, Miyako; Hayakawa, Mitsuru; and Ueda, Kunihiro,3,443,011.
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako,3,472,932.
Ueda, Shinhachiro. Method of constructing underground concrete walls. 3,431,736, 3-11-69, Cl. 61-35.
Ueda, Tomoharu; Terao, Shinichiro; and Yabuta, Seizo, to Sumitomo Chemical Company, Ltd. Horizontal-type high vacuum film evaporator for highly viscous solutions. 3,464,478, 9-2-69, Cl. 159-6.
Uehara, Keijiro: *See—*
Okutsu, Shinkichi; Nariai, Noriyuki; Takagi, Takeshi; and Uehara, Keijiro,3,447,958.
Tokuyama, Takashi; and Uehara, Keijiro,3,445,280.
Tokuyama, Takashi; and Uehara, Keijiro,3,447,237.
Uematsu, Shigeru: *See—*
Komai, Yoshiaki; Yoshino, Zenichi; Miyazaki, Yasunobu; Uematsu, Shigeru; and Mifune, Keiji,3,446,664.
Uemura, Saburo; and Iijima, Hajime, to Sony Corporation. Spark reducing arrangement for commutator brushes of D. C. machines. 3,456,143, 7-15-69, Cl. 310-220.
Uenaka, Shigeyoshi: *See—*
Kawakami, Yohei; Seki, Toshio; and Uenaka, Shigeyoshi,3,450,668.
Ueno, Akira; Matsuzaki, Etsuko; Momoki, Yoshio,; Ishimaru, Yoshino,; Saito, Gosaku,; and Sakai, Sumio,, to Kaken Kagaku Kabushiki Kaisha. 11-iodo-10-undecynoic acid and its derivatives. 3,420,859, 1-7-69, Cl. 260-408.
Ueno, Hakaru; and Ose, Shinsuke, to Dainippon Pharmaceutical Co., Ltd. Lungworm disease treating composition containing N-dithiocarboxy derivatives of amino acids and method of using same. 3,463,853, 8-26-69, Cl. 424-250.
Ueno, Haruo: *See—*
Sugiura, Shotaro; Tasaka, Fumio; Ueno, Haruo; Kono, Minoru; Katagiri, Nobuyuki; and Sakinaga, Nobumasa,3,459,726.

Sugiura, Shotaro; Ueno, Haruo; Nakatomi, Shunsuke; Ishikawa, Hideo; and Inoue, Tosihiro,3,423,387.
Ueno, Kenzo; and Sato, Yuko, to Takeda Chemical Industries, Ltd. Adhesive composition. 3,438,922, 4-15-69, Cl. 260-29.3
Ueno, Kiichi: *See*—
Yoshida, Susumu; Tsuboi, Takamitsu; and Ueno, Kiichi,3,444,416.
Ueno, Kisaburo; Hirose, Akira; and Shinozawa, Tetsuichi, to Toyo Kotsu Industries Incorporated. Method for suppressing the nitrification of ammonium nitrogen in soil and composition therefor. 3,482,957, 12-9-69, Cl. 71-1.
Ueno, Tamotsu; and Nakano, Takashi, to Japan Gas-Chemical Company, Inc. Process for supplying hydrogen fluoride and boron fluoride to xylene-extracting apparatus. 3,458,590, 7-29-69, Cl. 260-674.
Ueno, Toshihiro: *See*—
Sato, Fukuzo; Okagami, Akio; and Ueno, Toshihiro,3,452,106.
Ueno, Wataru: *See*—
Yano, Yasushi; Ueno, Wataru; Nishio, Fumihiko; and Nakajima, Yosuke,3,457,076.
Uenohara, Michiyuki, to Bell Telephone Laboratories, Incorporated. Two-valley semiconductor devices and circuits. 3,451,011, 6-17-69, Cl. 331-107.
Uerlichs, Johannes, to Rappold & Co. G.m.b.H. Slide valve plate with a relief device particularly for slide valves of large size. 3,434,499, 3-25-69, Cl. 137-630.12
Uerlichs, Johannes; and Muller, Rudolf, to Rappold, Hermann, & Co., G.m.b.H. Means for preventing combustion and explosions in hot air conduits in blast furnaces. 3,447,793, 6-3-69, Cl. 266-30.
Ueshima, Kumao; Hiratsuka, Yoshio; Kuga, Toshiki; Yoshinaga, Hirokazu; and Hayashi, Yoichi, to Yawata Iron & Steel Co., Ltd. Blast furnace servicing apparatus. 3,459,418, 8-5-69, Cl. 266-41.
Uetani, Tatsuya: *See*—
Miyazaki, Yoshihisa; Kubo, Moritada; Takahashi, Yukiharu; and Uetani, Tatsuya,3,436,627.
Uetrecht, Dale M.: *See*—
Munch, Walter, Jr.; and Uetrecht, Dale M.,3,476,864.
Ueyanagi, Jisaburo; Iwasaki, Hidesuke; Kamiya, Takaaki; and Oka, Osamu, to Takeda Chemical Industries, Ltd.Novel β-haloglutamate and α,β- dehydroglutamate compounds. 3,444,187, 5-13-69, Cl. 260-471.
Uffner, Melville W., to GAF Corporation. Striker compositions. 3,441,456, 4-29-69, Cl. 149-19.
Ufford, David E. Kart board. 3,437,161, 4-8-69, Cl. 180-1.
Ugalde, Angel Lira: *See*—
Von Eiff, Ulrich Christof; and Ugalde, Angel Lira,3,420,456.
UGC Industries, Inc.: *See*—
Greene, George J., Jr., 3,440,396.
Woodard, Toma A.; Davis, John R.; and Gordon, Edward, 3,486,011.
UGC Instruments, Inc.: *See*—
McElwee, Lorin A.; Cordray, Roy E.; and Greene, George J., Jr., 3,439,161.
Ugi, Ivar; Fetzer, Uwe; Unterstenhofer, Gunter; Behrenz, Wolfgang; Frohberger, Paul-Ernst; and Scheinpflug, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Aromatic isonitrile pest controlling agents. 3,422,190, 1-14-69, Cl. 424-226.
Ugine Kuhlmann: *See*—
Besson, Paul; and Thirion, Pierre, 3,468,953.
Borrel, Marcel; and Konareff, Jean, 3,445,347.
Borrel, Marcel; and Konareff, Jean, 3,459,639.
Darcas, Claude; Allirot, Rene; and Laviron, Charles, 3,474,142.
Demarcq, Michel Charles; and Sleziona, Joseph-Joachim, 3,453,348.
Demarcq, Michel Charles, 3,458,281.
du Bellay, Marc Griffon; and Doutillon, Gabriel, 3,450,493.
Foulletier, Louis, 3,429,938.
Foulletier, Louis, 3,450,779.
Goeb, Andre; and Vuillemenot, Jacques, 3,474,018.
Grall, Francois Bernard Marie; and Dalle, Michel Pierre Yvon, 3,482,924.
Isard, Arsene; and Weiss, Francis, 3,472,879.
Jirou, Marcel; and Leroy, Jean Marie Louis, 3,479,332.
Laffin, Michel, 3,478,814.
Laviron, Charles; Darcas, Claude; and Allirot, Rene, 3,474,141.
Lenoir, Maurice Auguste Jacques; Lanzarone, Roland Michael; and Maigrot, Madeleine Georgette, 3,440,254.
Lenoir, Maurice Auguste Jacques; and Ligot, Jean Denis Bernard, 3,457,301.
Loiseau, Gerard Paul Marie Henri, 3,479,433.
Nagy, Georges; and Balde, Daniel, 3,472,919.
Nagy, Georges, 3,480,665.
Pascaud, Claude; and Graff, Louis, 3,450,524.
Robert, Jean-Pierre, 3,485,809.
Senez, Claude Jean Michel, 3,437,518.
Senez, Claude Jean Michel, 3,441,433.
Serpinet, Joseph, 3,437,453.
Sureau, Robert Frederic Michel; and Alicot, Marie Josephe Jeanne, 3,459,489.
Szobel, Laszlo; Troussier, Maurice; and Vuillemenot, Jacques, 3,446,838.
Thirion, Pierre, 3,442,951.
Van Den Steen, Antoine, 3,450,525.
Weiss, Francis; and Isard, Arsene, 3,444,238.
Weiss, Francis J., 3,428,656.
Ugo, John W.; and Tomsic, Walter J., to Uniroyal, Inc. Apparatus for magnetically coding and decoding pneumatic tire members. 3,460,119, 8-5-69, Cl. 340-174.1
Ugolini, Ugolino. Process for manufacture of a mat or carpet like the two-colour rubber mats molded. 3,439,083, 4-15-69, Cl. 264-139.
Uhing, Eugene H., to Stauffer Chemical Company. Tris-betahydroxyethyl phosphonomethylene ammonium compounds. 3,453,301, 7-1-69, Cl. 260-439.
Uhing, Eugene H.: *See*—
Walsh, Edward N.; and Uhing, Eugene H.,3,440,222.
Uhl, Herbert Bennett: *See*—
Szumski, Stephen Aloysius; and Uhl, Herbert Bennett,3,470,011.
Uhl, John J. Flower arranging device. 3,447,262, 6-3-69, Cl. 47-41.11
Uhl, Siegfried: *See*—
Kirsch, Karl; Uhl, Siegfried; and Schiele, August,3,434,382.
Uhler, Lewis K.: *See*—
Sanders, Melvin C., 3,420,466.
Uhler, Wilmer P.: *See*—
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,473,845.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,482,072.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim,3,486,789.
Uhlig, Fritz: *See*—
Erdmann, Fritz; and Uhlig, Fritz,3,459,128.
Uhlig, Fritz, to Kalle Aktiengesellschaft. Process for the preparation of planographic printing plates. 3,468,725, 9-23-69, Cl. 148-6.15
Uhlig, Fritz; Lind, Erwin; and Steppan, Hartmut, to Azoplate Corporation, mesne. Planographic printing plate. 3,438,778, 4-15-69, Cl. 96-33.
Uhlir, Arthur, Jr., to Microwave Associates, Inc. System of enclosures and connectors for microwave circuits. 3,480,887, 11-25-69, Cl. 333-24.
Uhlir, Pavel, to Zavody textilniho strojirenstvi Generalni reditelstvi. Drive arrangement for oscillating the needle cylinder of a circular knitting machine. 3,427,830, 2-18-69, Cl. 66-56.
Uhlmann, Arthur: *See*—
Uhlmann, Arthur M., 3,446,125.
Uhlmann, Arthur M., to Uhlmann, Helen Uhlmann, John Uhlmann, James, and Uhlmann, Arthur. Photographic apparatus for obtaining artistic effects. 3,446,125, 5-27-69, Cl. 95-1.
Uhlmann, Erich, to Allmanna Svenska Elektriska Aktiebolaget. Power transmission for high voltage direct current. 3,431,482, 3-4-69, Cl. 321-2.
Uhlmann, Ernest A. Soap dispensing apparatus. 3,456,850, 7-22-69, Cl. 222-180.
Uhlmann, Ernest A.: *See*—
Elmore, Austin E.; and Uhlmann, Ernest A.,3,445,042.
Uhlmann, Helen: *See*—
Uhlmann, Arthur M., 3,446,125.
Uhlmann, James: *See*—
Uhlmann, Arthur M., 3,446,125.
Uhlmann, John: *See*—
Uhlmann, Arthur M., 3,446,125.
Uhor, Emil. Convertible bench or chair and picnic table. 3,429,283, 2-25-69, Cl. 108-11.
Uhrenholdt, Eugene Clifford, to Reynolds Metals Company. Self-feeding anode probe for reduction cell. 3,420,765, 1-7-69, Cl. 204-195.
Uhrenholdt, Eugene Clifford, to Reynolds Metals Company. Voltage control in aluminum electrolysis cells during flex-raise period. 3,485,727, 12-23-69, Cl. 204-67.
Uhrig, Edward O., to United States of America, Navy, mesne. Amplifier testing apparatus. 3,426,285, 2-4-69, Cl. 330-2.
Uhrig, Hans: *See*—
Dosch, Peter; Kraus, Hans J.; and Uhrig, Hans,3,483,082.
Uhrig, Wilhelm. Slide fastener unit. 3,482,290, 12-9-69, Cl. 24-205.1
Uhtenwoldt, Herbert R., to Heald Machine Company, The. Loading mechanism. 3,420,008, 1-7-69, Cl. 51-215.
Uimari, David C., to Corning Glass Works. High-speed logic module having parallel inputs, direct emitter feed to a coupling stage and a grounded base output. 3,471,713, 10-7-69, Cl. 307-218.
Uimari, David C.; and Jackson, Kerry A., to Corning Glass Works. High speed trailing edge bistable multivibrator. 3,445,684, 5-20-69, Cl. 307-269.
Uitti, Kenneth D., to Universal Oil Products Company. Method for producing a solvent for edible oils. 3,429,802, 2-25-69, Cl. 208-87.
Uitti, Kenneth D., to Universal Oil Products Company. Simultaneous solvent extraction of a light and heavy fraction. 3,468,792, 9-23-69, Cl. 208-312.
Uitti, Kenneth D., to Universal Oil Products Company. Simultaneous solvent extraction of a light and heavy fraction. 3,468,793, 9-23-69, Cl. 208-312.

Uitti, Kenneth D.: *See—*
Haufe, Ted B.; and Uitti, Kenneth D.,3,457,166.
Uitvlugt, Martin W.: *See—*
Mueller, Robert S.; and Uitvlugt, Martin W.,3,481,422.
Uitvlugt, Martin W., to Eaton Yale & Towne, Inc. Vehicle speed governor. 3,444,950, 5-20-69, Cl. 180-105.
Ujhelyi, Gabor K.: *See—*
Carson, Arthur N.; and Ujhelyi, Gabor K.,3,447,138.
Ribeiro, Sergio T.; and Ujhelyi, Gabor K.,3,433,554.
Ujihara, Akira: *See—*
Komatsu, Toshiro; and Ujihara, Akira,3,476,263.
Ukawa, Akira, to Mitsubishi Denki Kabushiki Kaisha. Inflatable escape slideway apparatus. 3,433,323, 3-18-69, Cl. 182-48.
Ukihashi, Hiroshi; and Hisasue, Michio, to Asahi Glass Co., Ltd. Process of producing tetrafluoroethylene and hexafluoropropylene. 3,459,818, 8-5-69, Cl. 260-653.3
Ukita, Shigetsugu: *See—*
Watanabe, Toshio; and Ukita, Shigetsugu,3,431,466.
Ukita, Tomizo; Nakai, Masashi; Minami, Zenro; Yamazaki, Toshio; and Ootaka, Koda, to Nagase & Co., Ltd. Feed supplement for animals and production thereof. 3,455,696, 7-15-69, Cl. 99-9.
Ukmar, Boris: *See—*
Ricciardi, Giuseppe; and Ukmar, Boris,3,450,835.
Ukmar, Milosh L.; and Kline, Larry H., to Allen Electric and Equipment Company, mesne. Mobile antenna with flat spiral loading and matching coil. 3,453,618, 7-1-69, Cl. 343-715.
Ukrainsky Nauchno-Issledovatelsky i Konstruktorsky Institute prodovolstvennoga mashinostroenia: *See—*
Pirotsky, Motja Anselevich, 3,439,632.
Ulam, John B., to Composite Metal Products, Inc. Composite cooking vessels. 3,445,630, 5-20-69, Cl. 219-438.
Ulary, Russell R., to Radio Corporation of America. Apparatus for replenishing developer in an electrophotographic system. 3,431,890, 3-11-69, Cl. 118-637.
Ulatowski, Vincent J., to General Electric Company. Adjusting bolt. 3,430,996, 3-4-69, Cl. 287-189.36
Ulbing, Otmar M.: *See—*
Bangerter, Kenneth R.; Ulbing, Otmar M.; and Krouse, John P.,3,450,214.
Ulbing, Otmar M., to Ingersoll-Rand Company. Balancing hoist. 3,421,737, 1-14-69, Cl. 254-186.
Ulbing, Otmar M., to Ingersoll-Rand Company. Reversible one way brake. 3,447,643, 6-3-69, Cl. 188-82.2
Ulbing, Otmar M., to Ingersoll-Rand Company. Fluid pressure operated wrench. 3,461,975, 8-19-69, Cl. 173-12.
Ulbing, Otmar M., to Ingersoll-Rand Company. Reel assembly. 3,481,582, 12-2-69, Cl. 254-167.
Ulbing, Otmar M., to Ingersoll-Rand Company. Balancing hoist. 3,481,583, 12-2-69, Cl. 254-168.
Ulbing, Otmar M., to Ingersoll-Rand Company. Pressure regulating valve. 3,485,259, 12-23-69, Cl. 137-116.3
Ulbing, Otmar M.; and Katarskas, Zenonas, to Ingersoll-Rand Company. Torque control system. 3,442,177, 5-6-69, Cl. 91-59.
Ulbricht, Gerhard: *See—*
Hennings, Klaus; Schutze, Hans-Jurgen; and Ulbricht, Gerhard,3,462,650.
Ulderup, Jurgen. Universal joint having wear resistant supporting ring for pivotally supporting the hinge pin in the joint housing. 3,453,012, 7-1-69, Cl. 287-87.
Ulert, Izaak A., 45% to Epstein, Julius, 10% to Goldfaden, Louis, and 5% to Fox, Carl B., Jr. Safety belt and seat belt apparatus. 3,480,228, 11-25-69, Cl. 242-107.4
Ulffers, Dirk: *See—*
Dietrich, Rolf; Ulffers, Dirk; and Warstat, Hans,3,445,170.
Uli, Raymond Burger-Straumann: *See—*
Hartmann, Max; and Burger, Willy,3,461,915.
Ulich, Michael D., to Westinghouse Electric Corporation. Hub and shaft securement. 3,468,568, 9-23-69, Cl. 287-53.
Ulich, Michael D., to Westinghouse Electric Corporation. Room air-conditioner improved mounting arrangement. 3,476,034, 11-4-69, Cl. 98-94.
Ulich, Michael D., to Westinghouse Electric Corporation. Room air conditioner window mount arrangement. 3,481,264, 12-2-69, Cl. 98-94.
Ulics, George, to General Motors Corporation. Universal joint bearing seal assembly. 3,446,507, 5-27-69, Cl. 277-92.
Uliczky, Sandor; and Zsoka, Istvan, to Mineralimpex Magyar Olaj-es Banyatermek Kulkereskedelmi Vallalat. Method of sealing boreholes and apparatus therefor. 3,447,605, 6-3-69, Cl. 166-187.
Ulin, Johan Emil, to AB Trapco. Reloading mechanism on road transport vehicles for standard loads. 3,459,319, 8-5-69, Cl. 214-516.
Ulinski, Bronislaus I., to Eaton Yale & Towne Inc. Side loading industrial truck. 3,432,054, 3-11-69, Cl. 214-670.
Ulinski, Bronislaus I., to Eaton Yale & Towne, Inc. Lift truck mast and ram assembly. 3,485,323, 12-23-69, Cl. 187-9.
Ulitsch, Herman J.Landscaper's utility cart. 3,435,956, 4-1-69, Cl. 211-60.
Uljankin, Makhail Georgievich: *See—*
Maltabar, Vasily Markovich; Uljankin, Makhail Georgievich; and Andreev, Vladislav Vladimirovich,3,460,949.
Ullery, Fred E., to Ford Motor Company. Automatic power transmission control valve system having a fluidic shift inducer. 3,473,418, 10-21-69, Cl. 74-868.
Ullery, Lee R., Jr.; and Wronski, Steve F., to Continental Can Company, Inc. Edge guidance of an unseamed tube in the continuous welding of the tube. 3,431,383, 3-4-69, Cl. 219-59.
Ullman, Edwin Fisher: *See—*
Huffman, Kenneth Robert; and Ullman, Edwin Fisher,3,444,212.
Ullman, Frederick E., to Inland Steel Company. Tubular metal sidewalls for containers possessing balanced strength and containers made therewith. 3,472,418, 10-14-69, Cl. 220-72.
Ullman, Frederick E.: *See—*
Garver, Oscar W.; Ullman, Frederick E.; Stettler, Christian H.; and Kopp, Hans W.,3,427,426.
Ullman, John E.; and Olejkowski, Stanley, to Huntingdon Industries Incorporated. Impact sealer for cases. 3,473,447, 10-21-69, Cl. 93-36.3
Ullman, Peter J.; and Littrell, Odie L., to Fairchild Camera and Instrument Corporation. Photodevice enclosure. 3,421,203, 1-14-69, Cl. 29-572.
Ullman, Robert: *See—*
Reem, Richard Ellwood; and Ullman, Robert,3,455,006.
Ullmann, Werner; and Donati, Franco, to A.G. fur industrielle Elektronik Agie. Protective system for electro-erosion metalworking. 3,439,146, 4-15-69, Cl. 219-69.
Ullmann, Werner; and Hermann, Ferdy, to A.G. fur industrielle Elektronik Agie. Means for positioning workpiece and tool with double-image microscope. 3,450,456, 6-17-69, Cl. 350-31.
Ullrich, Hansjurgen: *See—*
Albrecht, Werner; Dietze, Manfred; Kraft, Wolfgang; and Ullrich, Hansjurgen,3,440,019.
Dietze, Manfred; Kraft, Wolfgang; Scheller, Hans; and Ullrich, Hansjurgen,3,466,150.
Hadler, Rudolf; Ullrich, Hansjurgen; and Schreiber, Horst,3,473,896.
Ullrich, Hans; and Sussmann, Erhard, to Siemens Aktiengesellschaft. Method of manufacturing integrated semiconductor circuit device. 3,445,927, 5-27-69, Cl. 29-578.
Ullrich, Kurt: *See—*
Wesch, Ludwig; and Ullrich, Kurt,3,454,947.
Ullrich, Walter: *See—*
Kornbichler, Heinz; Ullrich, Walter; Mainka, Alfred; and Lohse, Karl-Heinz,3,467,578.
Ullyot, Glenn E.: *See—*
Maass, Alfred R.; Smyth, Murray G., Jr.; and Ullyot, Glenn E.,3,449,496.
Ulm, Ernest S., to AMK Subsidiary Corporation, mesne. Tire post cure inflator. 3,483,596, 12-16-69, Cl. 18-2.
Ulm, Ernest S.; and Stoyanov, Benjamin, to AMK Subsidiary Corporation. Tire curing press with loader. 3,471,895, 10-14-69, Cl. 18-2.
Ulmann, Paul, to Commissariat a l'Energie Atomique. Respiratory mask with exhalation valve having alternate biasing means. 3,474,783, 10-28-69, Cl. 128-142.3
Ulmer, Harry E.: *See—*
Bostian, Logan C.; Farrar, Grover L.; and Ulmer, Harry E.,3,456,014.
Ulmer, James C. Wood chisel scabbard. 3,430,760, 3-4-69, Cl. 206-16.
Ulmer, William W.: *See—*
Olson, Emil H.; Ulmer, William W.; and Christensen, Richard L.,3,445,282.
Ulmer, William W., to Anaconda Wire and Cable Company. Epoxidized amide-imide polymeric coating powder. 3,458,595, 7-29-69, Cl. 260-830.
Ulmer, Wolfgang, to Siemens Aktiengesellschaft. Multistage wideband transistor amplifier. 3,461,394, 8-12-69, Cl. 330-21.
Ulmschneider, Lawrence A., to Eastman Kodak Company. One-piece molded spool, winding core or the like. 3,439,881, 4-22-69, Cl. 242-68.5
Ulmschneider, Lawrence A.: *See—*
Edwards, Evan A.; Ulmschneider, Lawrence A.; and Roman, Robert J.,3,465,980.
Uloth, Robert H.: *See—*
Larsen, Aubrey A.; and Uloth, Robert H.,3,478,149.
Ulrich Foundation, Inc.: *See—*
Ulrich, John J.; and Ulrich, Solomon D., 3,470,634.
Ulrich, Friedrich, to International Standard Electric Corporation. Magnetic translator. 3,441,907, 4-29-69, Cl. 340-166.
Ulrich, Friedrich, to International Standard Electric Corporation. Information comparing circuitry. 3,459,959, 8-5-69, Cl. 307-88.
Ulrich, Friedrich, to International Standard Electric Corporation. Asynchronous magnetic core analog-to-digital converter. 3,460,133, 8-5-69, Cl. 340-347.
Ulrich, Friedrich, to International Standard Electric Corporation. Route searching guide wire networks. 3,467,785, 9-16-69, Cl. 179-18.
Ulrich, Friedrich, to International Standard Electric Corporation. Magnetic care matrix arrangement for the individual reception of marks. 3,470,534, 9-30-69, Cl. 340-166.

Ulrich, Hans: *See—*
Frank, Karl; Himmelmann, Wolfgang; and Ulrich, Hans,3,467,519.
Grabhofer, Herbert; and Ulrich, Hans,3,428,456.
Himmelmann, Wolfgang; Moll, Franz; Posse, Rolf-Fred; Riebel, Alexander; and Ulrich, Hans,3,441,412.
Huckstadt, Harald; Saleck, Wilhelm; Ulrich, Hans; Randolph, August; and Grabhofer, Herbert,3,434,842.
Nittel, Fritz; Meckl, Heinz; Puschel, Walter; and Ulrich, Hans,3,437,483.

Ulrich, Henri: *See—*
Green, Milton; Sayigh, Adnan A.; and Ulrich, Henri,3,455,916.
Sayigh, Adnan A. R.; and Ulrich, Henri,3,450,700.
Sayigh, Adnan A. R.; and Ulrich, Henri,3,467,651.
Sayigh, Adnan A. R.; and Ulrich, Henri,3,484,466.
Sayigh, Adnan A. R.; Ulrich, Henri; and Wright, John B.,3,422,201.

Ulrich, John J.; Ulrich, Raymond M.; and Ulrich, Solomon D., to Ulrich Manufacturing Co., mesne. Earth materials handling apparatus. 3,466,989, 9-16-69, Cl. 94-44.

Ulrich, John J.; and Ulrich, Solomon D., to Ulrich Foundation, Inc. Materials handling attachment for converting a tractor in an elevating grader. 3,470,634, 10-7-69, Cl. 37-110.

Ulrich, John L.: *See—*
Zavod, Pierce H.; and Ulrich, John L.,3,478,769.

Ulrich Manufacturing Co.: *See—*
Anderson, Arthur F., 3,426,686.
Ulrich, John J.; Ulrich, Raymond M.; and Ulrich, Solomon D., 3,466,989.

Ulrich, Paul: *See—*
Weber, Kurt; Staeuble, Max; Ulrich, Paul; and Kern, Walter,3,464,780.

Ulrich, Raymond M.: *See—*
Ulrich, John J.; Ulrich, Raymond M.; and Ulrich, Solomon D.,3,466,989.

Ulrich, Richard: *See—*
Friess, Klaus; Ulrich, Richard; and Kritikos, Athanasios,3,476,688.

Ulrich, Robert J.: *See—*
Cawthon, William C.; and Ulrich, Robert J.,3,453,133.

Ulrich, Solomon D.: *See—*
Ulrich, John J.; and Ulrich, Solomon D.,3,470,634.
Ulrich, John J.; Ulrich, Raymond M.; and Ulrich, Solomon D.,3,466,989.

Ulrich, Werner, to Bell Telephone Laboratories, Incorporated. Dial pulse scanning in a program-controlled telephone system. 3,420,957, 1-7-69, Cl. 179-18.

Ulrich, Wolfgang: *See—*
Hoppe, Hans; Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang,3,440,023.
Scherzberg, Heinz; Doring, Gunter; and Ulrich, Wolfgang,3,445,185.

Ulrick, Charles J.: *See—*
Christian, Hugh S.; Lowe, Dale R.; Ulrick, Charles J.; and Womack, Charles P.,3,465,101.

Ulstad, Meredith S.; and Neuman, Arthur E., to Control Data Corporation, mesne. Signal detection, identification, and communication system providing good noise discrimination. 3,441,900, 4-29-69, Cl. 340-5.

Ultes, Carl, Jr., to Kelly, O. S., Company, The. Piano plates. 3,461,768, 8-19-69, Cl. 84-188.

Ultra Dynamics Corporation: *See—*
Stout, Orin C.; and Wiltrout, Dale E., 3,474,033.
Young, Albert, 3,462,597.

Ultra Electronics Limited: *See—*
Brady, Arthur Richard, 3,473,969.

Ultra-Violet Products, Inc.: *See—*
Boland, Steven H., 3,457,454.
Hubert, Gustav, 3,467,825.
Hubert, Gustav, 3,487,210.

Ultramatic Equipment Co.: *See—*
Ferrara, Achille K., 3,470,754.

Ultrasonics Limited: *See—*
Goodman, John E.; and Grange, Arthur, 3,468,517.

Ultronic Systems Corporation: *See—*
Gertler, Eugene I.; and Wood, Stanley J., 3,484,744.
Hunkins, Stanley H.; and Beresin, Peter W., 3,483,329.
Klein, Ronald L., 3,465,289.

Ultronix, Inc.: *See—*
Terkel, Mike; Rose, Sheldon M.; and Smylie, Fred R., 3,486,534.

Ulvsunda Verkstader Aktiebolag: *See—*
Gluchowicz, Gerszon, 3,427,750.
Gluchowicz, Gerszon, 3,481,081.

Ulzurrun, Eduardo T., to National Cash Register Company, The. Computer memory having one-element-per-bit storage and two-elements-per-bit-noise cancellation. 3,466,626, 9-9-69, Cl. 340-174.

Umahashi, Minoru; and Yamakawa, Hitoshi, to Kabushiki Kaisha Ricoh. Developing mechanism for heat developable light sensitive copy paper. 3,436,523, 4-1-69, Cl. 219-216.

Umahashi, Minoru; and Yamakawa, Hitoshi, to Kabushiki Kaisha Ricoh. Developing apparatus for sensitive paper. 3,478,665, 11-18-69, Cl. 95-89.

Umantsev, Victor Sergeevich, to Zavod Elektroizmeritelnykh Priborov. Method of manufacturing a laminated foil resistor. 3,434,206, 3-25-69, Cl. 29-610.

Umbach, Hans: *See—*
Gawlick, Heinz; and Umbach, Hans,3,435,765.
Gawlick, Heinz; Stahlmann, Rudolf; and Umbach, Hans,3,444,812.
Stadler, Hans; Gawlick, Heinz; and Umbach, Hans,3,427,972.

Umbach, Wilfried: *See—*
Stein, Werner; and Umbach, Wilfried,3,436,425.

Umberger, Jacob Quentin, to Du Pont de Nemours, E. I., and Company. Dispersions of lipophilic color-coupling copolymers. 3,451,820, 6-24-69, Cl. 96-100.

Umberger, Jacob Quentin: *See—*
Seiter, Eugene Dwight; and Umberger, Jacob Quentin,3,424,583.

Umblia, Elmar J.; and Wesemeyer, Heinrich, to Telefonaktiebolaget L M Ericsson. Threshold semiconductor device. 3,444,438, 5-13-69, Cl. 317-234.

Umblia, Elmar Johannes: *See—*
Polasek, Karl Hans; Rudestedt, Sven Jan Einar; and Umblia, Elmar Johannes,3,420,777.

Umbricht, Emil: *See—*
Arnold, Orlan M.; Hanson, Victor W.; Jamison, Robert M.; Panzica, Nicholas J.; and Umbricht, Emil,3,475,881.

Umbricht, Emil, to Ajem Laboratories, Inc. Pump. 3,463,088, 8-26-69, Cl. 103-103.
Panzica, Nicholas J.; Jamison, Robert M.; and Umbricht, Emil,3,444,669.

Umbright, Emil, to Ajem Laboratories, Inc. Indexing mechanism. 3,481,450, 12-2-69, Cl. 198-219.

UMC Industries, Inc.: *See—*
Allgeyer, David F.; and Bourgeois, Joseph F. J., 3,440,767.
Johnson, Philip A., 3,454,192.
Kennedy, Melvin D., 3,437,900.
Pope, Kenneth E., 3,420,176.
Pope, Kenneth E., 3,445,857.
Pope, Kenneth E., 3,453,406.
Pope, Kenneth E., 3,453,653.
Pryor, Harry H.; Kessler, Arthur R.; Blacklock, Arthur G.; Neumann, Charles G.; Short, William H.; and Modjeski, Richard N., 3,446,137.
Pryor, Harry H., 3,482,894.
Ross, Richard F.; and Yan, Calvin K. K., 3,446,399.
Schuller, James T., 3,469,738.
Schuller, James T.; Haeusser, Harry C.; and Smith, Barry L., 3,477,556.
Sitler, Donald D.; and Christianson, William O., 3,470,419.

Umeda, Haruhiko; Ikemoto, Kenji; and Suzuki, Mitsuaki, to Kabushiki Kaisha Komatsu Seisakusho. Hydraulically-controlled steering clutch mechanism. 3,437,187, 4-8-69, Cl. 192-87.13

Umeda, Hideyo, to Ajinomoto Co., Inc. Method and device for controlling feed in a centrifugal separator. 3,420,374, 1-7-69, Cl. 210-78.

Umemori, Takashi; and Kawamura, Mitsuo, to Japanese National Railways. Thyristor turn-off time measuring system with cathodes of measured and controlled thyristors connected in common in a forward current circuit. 3,483,471, 12-9-69, Cl. 324-158.

Umemura, Mitsuo: *See—*
Ariga, Kinji; Takamizawa, Minoru; Harada, Haruo; Komiya, Akitoshi; Takaya, Seiki; and Umemura, Mitsuo,3,454,616.

Umemura, Sachio: *See—*
Nomura, Katsuhiko; and Umemura, Sachio,3,448,668.

Umeno, Masashi; Miyake, Makoto; and Tosaki, Chikao, to Japan Synthetic Rubber Co., Ltd. Apparatus for measuring viscoelasticity. 3,479,858, 11-25-69, Cl. 73-15.6

Umezawa, Hamao; and Tanaka, Nobuo. Antibacterial mixture of O-carbamyl-D-serine and-D-4- amino-3-isoxazolidone. 3,428,730, 2-18-69, Cl. 424-114.

Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko, to Fujisawa Pharmaceutical Co., Ltd. 3-(Substituted phenyl) pyrrole derivatives and methods of producing them. 3,428,648, 2-18-69, Cl. 260-313.1

Umio, Suminori; Kariyone, Kazuo; and Tanaka, Kunihiko, to Fujisawa Pharmaceutical Co., Ltd. 3-(Trifluoro methyl-phenyl)pyrroles. 3,487,089, 12-30-69, Cl. 260-313.1

Ummelen, Hendrikus C. M.; and Pereboom, Alexis J. M. Process for the preparation of hydrogen cyanide. 3,437,436, 4-8-69, Cl. 23-151.

Unarco Industries, Inc.: *See—*
Bezlaj, Frank A.; McLaughlin, Gerald R.; Loomis, Russell M.; and Breen, Henry D., 3,486,468.
Breen, Henry D.; and Loomis, Russell M., 3,431,015.
Klein, Herbert H., 3,465,898.

Loomis, Russell M., 3,472,180.
Loomis, Russell M.; and Breen, Henry D., 3,477,392.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D., 3,422,773.
Lundvall, John S.; Loomis, Russell M.; and Breen, Henry D., 3,478,700.

Underdown, Parks C., Sr., to Hickory Springs Manufacturing Co., Inc. Box-spring support bracket. 3,426,370, 2-11-69, Cl. 5-238.

Underground Mining Machinery Limited: *See—*
Bartley, George Wells, 3,444,964.

Underhill, Michael James, to U.S. Philips Corporation, mesne. Magnetic logic device and core. 3,471,710, 10-7-69, Cl. 307-88.

Underwood, George C., to Cornell-Dubilier Electric Corporation. Electromagnetic relay and method of manufacture thereof. 3,479,627, 11-18-69, Cl. 335-271.

Underwood, Herbert N.: *See—*
McAninich, Herbert A.; and Underwood, Herbert N.,3,443,405.

Underwood, Herbert N.; and Moochhala, Yunus E., to Borg-Warner Corporation. Hydraulic transmission with speed control. 3,443,381, 5-13-69, Cl. 60-53.

Underwood, James David. Hair treatment applicator. 3,429,642, 2-25-69, Cl. 401-16.

Underwood, John Duckles, to International Standard Electric Corporation. Magnetic alloy for data storage devices. 3,469,973, 9-30-69, Cl. 75-170.

Underwood, John T.; Palmer, Burton M.; Canfield, Sheldon A.; and Pitt, Richard E., to Owens-Corning Fiberglas Corporation. Method and apparatus for forming products and control therefor. 3,467,739, 9-16-69, Cl. 264-40.

Underwood, William F., to Union Carbide Corporation. Impregnated porous paper webs and method of obtaining same. 3,433,663, 3-18-69, Cl. 117-62.1

Underwriters Safety Device Co.: *See—*
Shea, Gerald J., 3,487,177.

Underwriters Safety Device Company: *See—*
Kallage, Richard G., Jr., 3,474,291.

Undery, Denis William, to Associated Electrical Industries Limited. Position controlling mechanisms. 3,428,069, 2-18-69, Cl. 137-85.

Unexcelled, Inc.: *See—*
Walter, Wallace F.; and Oberdorfer, Karl, 3,430,278.

Ungar, Israel S.: *See—*
Lloyd, Billy E.; Ungar, Israel S.; and Krumel, Richard R.,3,455,733.

Ungar, Israel S., to Allied Chemical Corporation. Preparation of melamine-formaldehyde resins and products thereof. 3,470,134, 9-30-69, Cl. 260-67.6

Ungar, Sandor A. Game equipment. 3,436,081, 4-1-69, Cl. 273-148.

Ungemach, Hans: *See—*
Basalla, Alfred; and Ungemach, Hans,3,463,441.

Unger, Artur; Stehmann, Hans-Peter; and Heidenreich, Paul, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Apparatus for stranding fibers with reversing twist. 3,426,519, 2-11-69, Cl. 57-59.

Unger, David; and Sabala, Ronald A., to Midwesco-Enterprise, Inc. Branch conduit connection for fluid distribution systems. 3,465,783, 9-9-69, Cl. 137-375.

Unger, Gunther K. H. R., to N.V. Handelsondernemign Ploum. Method and apparatus for thermally drying fine granular material or mud, especially highly sticky pond mud. 3,469,329, 9-30-69, Cl. 34-137.

Unger, Hans Peter Olof. Display slide for wet biological preparates. 3,432,275, 3-11-69, Cl. 23-292.

Unger, Hans Peter Olof. Centrifuge for treating liquid and/or solid materials. 3,439,871, 4-22-69, Cl. 233-3.

Unger, Hans Peter Olof. Measuring rod. 3,479,881, 11-25-69, Cl. 73-425.4

Unger, Harold W., to Continental Can Company, Inc. Plastic container for foodstuffs susceptible to oxidative deterioration. 3,463,350, 8-26-69, Cl. 220-83.

Unger, Otto: *See—*
Kubitzek, Harry; Unger, Otto; Nawrath, Gunter; Reichle, Alfred; and Nischk, Gunther,3,477,899.
Szita, Jeno; Marzolph, Herbert; and Unger, Otto,3,449,286.
Szita, Jeno; Marzolph, Herbert; and Unger, Otto,3,453,249.

Unger, Paul. Safety means for ski bindings with vertical bolt. 3,463,503, 8-26-69, Cl. 280-11.35

Unger, Paul. Safety binding with double crank means. 3,467,407, 9-16-69, Cl. 280-11.35

Unger, Paul. Step in safety binding for ski. 3,473,816, 10-21-69, Cl. 280-11.35

Unger, Paul. Mounting plate or gauge for securing ski binding components to skis. 3,476,400, 11-4-69, Cl. 280-11.35

Unger, Paul. Safety binding for ski. 3,476,401, 11-4-69, Cl. 280-11.35

Unger, Paul. Ski bonding with device for threaded adjusting of the binding component. 3,477,736, 11-11-69, Cl. 280-11.35

Unger, Peter I.; and Bright, Edward D., to Fairbanks Morse, Inc. Processing control system. 3,436,968, 4-8-69, Cl. 73-433.

Unger, Peter. Method and apparatus for testing cell suspensions. 3,432,268, 3-11-69, Cl. 23-230.

Unger, Richard, to Merck, E., A.G.Distinct racemates of 2-hydroxy-2-ethyl-1,2, 3,4,6,7-hexahydro-11bH-benzo[a]quinolizine. 3,472,858, 10-14-69, Cl. 260-286.

Unger, Victor H.: *See—*
Bayer, Horst O.; and Unger, Victor H.,3,433,623.
Bayer, Horst O.; Lewis, Sheldon N.; and Unger, Victor H.,3,468,946.

Unger, Victor H., to Rohm & Haas Company. Herbicidal mixture and method of controlling undesirable plant growth therewith. 3,443,927, 5-13-69, Cl. 71-103.

Ungerer, Fritz, deceased0 (by Ungerer, Irma; sole heir). System for the selective stacking of sheet material. 3,476,241, 11-4-69, Cl. 209-73.

Ungerer, Fritz, deceased0 (by Ungerer, Irma; widow and sole heiress). Plate straightening machine. 3,468,149, 9-23-69, Cl. 72-165.

Ungerer, Irma: *See—*
Munchbach, Curt, 3,429,163.

Ungerer, Irma: *See—*
Ungerer, Fritz,3,468,149.
Ungerer, Fritz,3,476,241.

Ungerer, Karl Fr.: *See—*
Bischoff, Emil, 3,452,982.
Munchbach, Curt, 3,439,517.

Uni-Tech Chemical Manufacturing Company: *See—*
Reardon, John, 3,432,395.

Unilever N.V.: *See—*
Peters, Artur; and Friehe, Bernhard, 3,445,050.

Unimaco, Inc.: *See—*
Motis, Gilbert M., 3,434,518.

Unimed, Inc.: *See—*
Fossel, Spencer M., 3,439,096.
Fossel, Spencer M., 3,461,210.
Fossel, Spencer M., 3,475,541.
Schayer, Richard W., 3,474,168.

Uninorm Anstalt: *See—*
Biedermann, Siegfried, 3,427,505.

Union Bag-Camp Paper Corporation: *See—*
Chase, Richard R.; and McKee, James C., 3,431,061.

Union Camp Corporation: *See—*
Barker, Richard G., 3,470,061.
Bolling, Robert W., Jr.; Fenwick, Willis L.; and Reeves, Jerry H., III, 3,473,723.
De Pass, Ernest T.; and Cook, Thomas J.P., 3,463,845.
Egger, William; and Naylor, Edward Shaw, 3,459,357.
Giebel, Buddy E., 3,463,546.
Keillor, John M.; and Smith, Oliver T., 3,433,353.
Kennedy, Walter B.; and Wheeler, Donald B., 3,483,070.
Kitchell, Thorne C., 3,471,077.
Manfredonia, Mario; and Wilcox, Edward D., Jr., 3,430,409.
McCall, Frank S.; and Bolling, Robert W., 3,485,438.
Swezey, Edwin W., 3,451,669.

Union Carbide Canada Limited: *See—*
Bell, Donald K.; and Brown, Graham Edward, 3,438,878.
Gerrard, John Mason, 3,472,923.
Singh, Kshatra Pati, 3,445,421.
Singh, Kshatra Pati, 3,454,378.

Union Carbide Corporation: *See—*
Adams, George Mellen; and Tijunelis, Donatas, 3,425,976.
Addis, Gilbert I., 3,428,447.
Allen, John P. C.; Bone, John D.; and Pilia, Frank J., 3,443,057.
Amthor, Helmut K.; and Conte, Alfred L., 3,431,622.
Angell, Richard G., Jr., 3,436,446.
Annunziata, Carmine; and Lee, Robert H., 3,420,980.
Arino, Hirofumi, 3,468,808.
Arnold, Donald R.; and Sousa, Anthony A., 3,478,043.
Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E., 3,483,102.
Avery, William F., 3,422,005.
Babcock, Roger S., 3,484,303.
Baetzel, Robert J.; and Majewski, Henry, 3,431,127.
Bailey, Donald L.; and O'Connor, Francis M., 3,480,583.
Baker, Allen J.; Death, Frank S.; Myers, Richard C.; and Farnsworth, Walter B., 3,422,206.
Barth, Bruce P.; and Hendricks, Edward G., 3,446,654.
Basche, Malcolm, 3,464,843.
Baum, Bernard O., 3,425,980.
Baylor, Harry N., 3,457,291.
Benzing, Walter C., 3,469,147.
Benzing, Walter C., 3,484,311.
Berghezan, Aurel I., 3,442,666.
Berghezan, Aurel I., 3,442,667.
Bernard, Donald A., 3,483,229.
Bostwick, Robert, 3,420,433.
Boyden, James H., 3,423,695.
Braye, Emile H., 3,449,426.
Brindley, Robert E.; and Doring, William H., 3,456,102.
Brotherton, homas K.; and Naylor, Peter G., 3,483,189.
Brotherton, Thomas K.; and Smith, John, Jr., 3,422,165.
Brotherton, Thomas K.; and Lynn, John W., 3,427,346.

Brotherton, Thomas K.; and Smith, John, Jr., 3,428,611.
Brotherton, Thomas K., 3,449,416.
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr., 3,454,606.
Brotherton, Thomas K.; and Lynn, John W., 3,459,786.
Brotherton, Thomas K.; Knopf, Robert J.; Starcher, Paul S.; and Noffsinger, Charles A., 3,470,248.
Brotherton, Thomas K.; Lynn, John W.; and Smith, John, Jr., 3,470,271.
Buchman, William W., 3,475,077.
Calvert, William L., 3,467,249.
Calvert, William L., 3,469,835.
Capitano, Peter J.; and Angelkorte, Johannes W., 3,440,295.
Carkhuff, Donald W.; and Wojciak, Thaddeus J., 3,436,522.
Carrick, Wayne L.; and Karapinka, George L., 3,449,429.
Chan, John K.; and Marcus, Erich, 3,448,131.
Chiu, Herman S.; and Kambara, Frank T., 3,484,256.
Chow, Sui-Wu; Gulick, Rodwin E.; and Orttung, Frederick W., Jr., 3,445,362.
Christensen, Ralph E., 3,426,105.
Chwastiak, Stephen, 3,471,438.
Clark, Milton B., 3,481,853.
Coberly, Clarence J.; and Kogut, Val, 3,459,823.
Coberly, Clarence J., 3,472,907.
Cogen, Leonard L.; and Koepplin, William J., 3,451,806.
Coless, Thomas L.; and Rimer, Kenneth Woodrow, 3,424,626.
Coless, Thomas L., 3,428,497.
Coless, Thomas L.; and Rimer, Kenneth W., 3,480,487.
Colpoys, Patrick J., Jr., 3,437,148.
Comstock, Lowell R.; Hardman, Donald E.; and Brezinski, Julius J., 3,472,914.
Cordy, Clifford B., Jr., 3,487,332.
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr., 3,461,097.
Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr., 3,461,098.
Cox, Eugene F.; and Knopf, Robert J., 3,436,373.
Creamer, Charles E., 3,451,964.
Creamer, Charles Edward, 3,467,686.
Critchfield, Frank E.; and Whitman, Robert D., 3,457,200.
D'Alessandro, William J., 3,455,866.
D'Alessandro, William J., 3,455,868.
Darland, William G., Jr.; Kordesch, Karl V.; and van Lier, Johannes A., 3,423,247.
Davee, Robert L.; and Louzos, Demetrious V., 3,432,351.
De Weese, Richard O.; and Young, C Frank, 3,471,626.
Delavarenne, Serge Y.; and Viehe, Heinz G., 3,483,256.
Didchenko, Rostislav, 3,441,378.
Donnell, Emerson Bradford, Jr.; and Calvert, William L., 3,480,505.
Doring, William H.; and Brindley, Robert E., 3,441,730.
Drost, Wilfred, 3,446,645.
Elbert, Raymond J.; and Farrier, Ernest G., 3,433,632.
Eloy, Fernand G. F.; and Van Overstraeten, Andre, 3,420,849.
Ender, Hans H., 3,449,384.
Ericson, Alvin E., 3,441,198.
Estes, Nelson N.; Hannah, Kenneth W.; Anderson, Charlie D.; and Eversole, Charles L., 3,454,258.
Farrell, John W.; Forgeng, William D.; and Rieder, Kurt O., 3,483,914.
Fitzpatrick, John T.; and van der Hoeven, Willem R., 3,483,224.
Foster, William W., 3,449,290.
Fountain, Bruce A.; Johnson, Neil E.; and Turner, William C., 3,472,474.
Freeman, Donald C., Jr., 3,440,585.
Friedman, Lester, 3,442,827.
Fritz, Henry E.; and Peck, David W., 3,426,069.
Fry, John S., 3,454,509.
Fulgenzi, Crescenzo F.; Law, James B.; and Lerch, Peter A., 3,467,171.
Fulgenzi, Crescenzo F., 3,469,621.
Gage, Robert M., 3,471,674.
Garty, Kenneth T.; and Gibb, Thomas B., Jr., 3,427,259.
Gemmill, Wayne J., Sr.; King, Paul A.; and Molinski, Victor J., 3,436,354.
Goodman, Henry G., Jr.; and Dupraz, Carol A., 3,449,406.
Gottzmann, Christian E.; Halloran, James A.; and Wilson, Fred A., 3,456,595.
Grimm, Donald C.; and Pierce, Leonard, Jr., 3,472,771.
Grimm, Donald C.; and Pierce, Leonard, Jr., 3,483,123.
Grimm, Donald C.; and Pierce, Leonard, Jr., 3,485,755.
Hale, Warren F., 3,480,695.
Hall, John H., 3,437,888.
Hall, John H., 3,477,935.
Hamel, William J.; and Potter, John J., Jr., 3,460,721.
Hansen, Donald J., 3,420,657.
Hard, Robert A., 3,483,916.
Harrington, Roger E., 3,449,610.
Hart, Henry H., 3,422,475.
Hedaya, Eddie; Theodoropulos, Spyros; and Hinman, Richard L., 3,472,817.
Hendricks, Edward G., 3,423,479.
Henry, Joseph P.; and Wilkinson, Loy A., 3,474,153.
Hice, Jackson O., 3,434,301.
Hill, Fred N.; and Henry, Joseph P., 3,436,409.
Hillas, Kenneth M., 3,444,024.
Hillas, Kenneth M., 3,444,025.
Holmes, Ronald L. W., 3,439,735.
Hoskins, Raymond H.; and Soffer, Bernard H., 3,427,566.
Hostettler, Fritz; and Cox, Eugene F., 3,422,118.
Hostettler, Fritz; and Cox, Eugene F., 3,426,042.
Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T., 3,438,858.
Howard, Ronald A.; Kellar, Arnold A.; and Meers, Joseph T., 3,439,073.
Hoy, Kenneth L.; and Payne, Paul C., 3,440,192.
Hubel, Karl W.; and Braye, Emile H., 3,426,052.
Hubert, Andre, 3,478,122.
Humphress, Joseph G.; and Zeunik, Robert L., 3,438,115.
Humphrey, Laurence E., 3,452,146.
Imhof, Lawrence G., 3,427,280.
Jackson, John E., 3,470,347.
Janes, Milton, 3,451,921.
Jex, Victor B.; and Bailey, Donald L., 3,455,725.
Johnson, Gordon C.; and Sterman, Samuel, 3,431,143.
Jones, Francis T.; and Sworski, Thomas J., 3,434,949.
Jugle, Lawrence C., 3,479,869.
Kanner, Bernard; and Wheeler, Marshall L., Jr., 3,471,588.
Kasting, Howard E.; and Romaine, Benjamin H., 3,439,864.
Kaufman, Stephen; and Nicolson, Richard E., 3,422,157.
Kellar, Arnold A.; and Carter, Morris B., 3,429,759.
Kerr, Bruce M., 3,457,125.
Kiff, Ben W.; and Cox, Norman R., 3,440,180.
Kiff, Ben W., 3,449,415.
Kiff, Ben W.; and Cox, Norman R., 3,467,716.
King, Paul A., 3,470,078.
Kipp, Henry A., 3,458,380.
Klein, Joseph J., 3,451,109.
Klein, Joseph J., 3,451,885.
Knight, Ernest O., 3,459,542.
Knopf, Robert J., 3,449,320.
Koffskey, John M., Jr., 3,425,901.
Kohler, Rudolph H., 3,481,648.
Kordesch, Karl V.; and Yeager, John F., 3,423,243.
Kordesch, Karl V., 3,477,877.
Koudelka, Robert E.; Arnold, Cornelius S.; and Kelley, Dewitt T., 3,427,151.
Kramer, Henry H.; and Arino, Hirofumi, 3,450,597.
Kun, Leslie C.; and Czikk, Alfred M., 3,454,081.
Kupcikevicius, Vytautas, 3,483,801.
Kurtz, Abraham N.; and Hamil, Henry F., 3,432,498.
Kurtz, Abraham N., 3,444,203.
Kurtz, Abraham N.; Billups, Wilbur E.; and Farmer, Melvin L., 3,487,111.
Kuryla, William C., 3,428,708.
Kuryla, William C.; and Knopf, Robert J., 3,467,607.
Kuryla, William C.; and Childers, John W., Jr., 3,472,800.
Lafyatis, Paul G.; and Rothfleisch, Jack E., 3,458,288.
Lahm, William J.; Wilton, Peter; and Egan, Walter, 3,423,274.
Lanewala, Mohammed Ali; Bolton, Anthony P.; and Pickert, Paul E., 3,450,644.
Le Roy, Gene, 3,486,192.
Leger, John E., 3,432,117.
Levine, Isaac J.; and Ingberman, Arthur K., 3,432,343.
Levine, Isaac J.; and Ingberman, Arthur K., 3,442,983.
Lichtenberger, Horst W.; and Maurer, David P., 3,421,336.
Litz, John E., 3,455,677.
Litz, Lawrence M.; and Rothfleisch, Jack E., 3,459,510.
Lombardi, Frank G., 3,432,474.
Louzos, Demetrios V., 3,477,958.
Lytle, Thomas J., 3,455,747.
Lytle, Thomas J., 3,477,646.
Maiman, Theodore H., 3,437,942.
Manning, David T.; and Sousa, Anthony A., 3,472,935.
Manz, August F., 3,431,390.
Manz, August F.; and Steinert, Thomas M., 3,459,919.
Manz, August F.; Saenger, John F., Jr.; Freeman, Norman D.; and Stanchus, Frank T., 3,483,354.
Marbach, Walter V., 3,471,305.
Marcus, Erich; and MacPeek, Donald L., 3,420,785.
Marcus, Erich; and MacPeek, Donald L., 3,431,309.
Marcus, Erich; and Chan, John K., 3,449,372.
Marcus, Erich; Mac Peek, Donald L.; and Tinsley, Samuel W., 3,455,966.
Marcus, Erich; and Hughes, John L., 3,483,231.
Matzner, Markus; and Conte, Louis B., Jr., 3,437,637.
Matzner, Markus, 3,449,298.
Matzner, Markus, 3,484,411.
McKinley, David L., 3,439,474.
Mellors, Geoffrey W.; and Senderoff, Seymour, 3,444,058.
Mercuri, Robert A., 3,437,606.
Merriam, Charles N.; and Saunders, Eleanor E., 3,468,844.

Miller, Alfred J.; Hinschlager, Rudolf F.; Allan, Stewart; and Weidner, William C., 3,462,135.
Miller, Howard R., 3,433,927.
Mills, Edward J., Jr.; and Suter, John F., 3,483,156.
Mitchell, James A.; Wilbur, Donald E., Jr.; and Wurtzell, Frederick W., 3,449,482.
Mitchell, Philip A.; Martino, Carlo F.; and Imhof, Lawrence G., 3,438,931.
Morehouse, Edward Lewis, 3,471,541.
Morison, Charles R. W., 3,450,658.
Morris, Robert L.; and Kinney, John F., 3,468,267.
Munck, Ellsworth G., 3,424,306.
Myerly, Richard C.; and Weinberg, Kurt, 3,428,641.
Myles, Michael J.; Kupcikevicius, Vytautas; and Spellman, John P., 3,451,098.
Myles, Michael J.; Kupcikevicius, Vytautas; and Beckman, John H., 3,457,588.
O'Connor, George L.; and Foster, Donald J., 3,442,811.
Omietanski, George M.; and Williams, Thomas C., 3,478,074.
Ostrozynski, Robert L., 3,477,988.
Pater, Anton S., 3,457,173.
Payne, Linwood K., Jr.; and Weiden, Mathias H. J., 3,450,745.
Payne, Linwood K., Jr.; and Weiden, Mathias H. J., 3,462,490.
Payne, Linwood K., Jr.; and Weiden, Mathias H. J., 3,466,316.
Payne, Linwood K., Jr.; and Weiden, Mathias H. J., 3,479,405.
Peacock, Glenn S., 3,424,631.
Peloquin, Leo, 3,457,023.
Peterson, Gordon E.; and Moyer, Robert G., 3,438,578.
Pikula, Joseph E., 3,438,807.
Pikula, Joseph E., 3,445,276.
Poppelsdorf, Fedor, 3,480,675.
Potter, George H.; Whitworth, Clyde J., Jr.; and Zutty, Nathan L., 3,485,790.
Potts, James E.; Ashcraft, Arnold C., Jr.; and Wise, Edgar W., 3,472,826.
Pruett, Roy L.; and Rick, Edward A., 3,440,294.
Puletti, Paul P.; and Gardner, Jack H., 3,425,981.
Purcell, Chester L.; and Imhof, Lawrence G., 3,423,212.
Purse, John H., 3,472,610.
Raines, Russell H., 3,472,774.
Rath, Ronald H., 3,436,511.
Reash, Clair W., 3,428,168.
Rectenwald, Charles E.; Keller, George E., II; and Clark, Jared W., 3,427,359.
Redfield, David, 3,431,512.
Reimlinger, Hans K.; De Ruiter, Ernest H.; and Kruerke, Ulrich K., 3,444,253.
Richardson, Dean E.; and Harkreader, Gordon G., 3,459,719.
Richardson, Norman T.; and Small, Francis H., 3,455,978.
Rick, Edward A.; and Pruett, Roy L., 3,458,550.
Rick, Edward A.; and Tinsley, Samuel W., Jr., 3,459,775.
Rife, Howard M.; and Landers, Leolin V., 3,440,060.
Roberts, Rene M. J., 3,481,907.
Ross, William C.; and Martin, Nathan B., Jr., 3,472,739.
Salensky, George A., 3,449,274.
Sara, Raymond V., 3,473,900.
Sara, Raymond V.; Cox, Mason C.; and Thielke, Norman R., 3,483,126.
Sargent, Herbert B.; and Yenni, Donald M., 3,471,675.
Schank, Richard L.; and Williams, Thomas C., 3,449,289.
Schaufelberger, Gretchen S., 3,450,559.
Schaufelberger, Roy H., 3,424,707.
Schreiner, Heinz R., 3,451,825.
Schumacher, Erwin A.; and Clark, Milton B., 3,427,199.
Schussler, Mortimer, 3,436,214.
Sellers, Ralph F., 3,445,429.
Shrubsall, Harry I., 3,456,089.
Smith, Keith L.; and Petrone, Joseph V., 3,465,070.
Snedeker, Robert H., 3,449,292.
Soffer, Bernard H.; and Hoskins, Raymond H., 3,470,492.
Soldatos, Anthony C.; and Burhans, Allison S., 3,441,522.
Soldatos, Anthony C., 3,444,134.
Somekh, George S.; and Hawkes, Edward N., 3,433,788.
Sonia, John; and Pouncy,Hillard W., Jr., 3,419,938.
Spry, William J., 3,454,362.
Sterman, Samuel; and Marsden, James G., 3,434,914.
Sterman, Samuel; and Marsden, James G., 3,441,466.
Sterman, Samuel; and Marsden, James G., 3,454,454.
Sterman, Samuel; and Marsden, James G., 3,472,729.
Sterman, Samuel; and Marsden, James G., 3,485,780.
Stone, Fred W.; and Rutherford, John M., Jr., 3,472,840.
Stone, Winthrop R., 3,426,907.
Sullivan, Robert C.; and Matzner, Markus, 3,428,600.
Swartz, Donald E., 3,440,515.
Szabo, Ted T.; and Klosek, Felix Peter, 3,451,462.
Theophilos, Nicholas P.; and Wang, David I-J., 3,457,990.
Thompson, Ivan P., 3,436,276.
Timson, William J., 3,433,294.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr., 3,428,612.
Tinsley, Samuel W.; and King, Paul A., 3,432,342.
Tinsley, Samuel W.; and King, Paul A., 3,457,193.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr., 3,472,796.
Tittmann, Frederick R.; Goldin, Michael M.; and Loeb, William E., 3,429,739.
Tittmann, Frederick R.; and Goldin, Michael M., 3,472,795.
Trecker, David J.; Henry, Joseph P.; and Brandon, Richard L., 3,453,197.
Tyler, Laurence W., 3,441,529.
Underwood, William F., 3,433,663.
Vestal, George A., 3,485,413.
Viehe, Heinz G., 3,427,354.
Viehe, Heinz G., 3,437,663.
Viehe, Heinz G.; and Hubert, Andre J., 3,439,038.
Viehe, Heinz G., 3,449,351.
Volk, Herbert F.; and Mercuri, Robert A., 3,446,607.
Voo, David, 3,474,755.
Wagner, John L., 3,430,418.
Walter, Andrew T.; Bryant, George M.; and Purcell, Chester L., 3,472,825.
Wang, David I-J, 3,441,164.
Warner, Glenn H., 3,426,072.
Warren, Roy R., 3,440,171.
Wartman, Lloyd H.; and Roth, Clarence E., Jr., 3,464,949.
Waylett, Clive E., 3,470,003.
Welch, Frank J.; and Paxton, Herbert J., Jr., 3,422,079.
Welch, Frank J., 3,432,484.
Whitacre, John R.; and Jenkin, William C., 3,466,229.
Winters, Charles E., 3,462,308.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O., 3,428,225.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O., 3,430,820.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O., 3,430,821.
Wolstoncroft, Richard L., 3,429,842.
Woolery, Robert G.; and Dresher, William H., 3,421,975.
Wu, Chisung, 3,420,917.
Wu, Chisung, 3,458,581.
Wulf, James B., 3,446,028.
Wynstra, John, 3,449,467.
Wynstra, John, 3,467,731.
Ziemba, Walter J., 3,472,781.
Zutty, Nathan L.; Welch, Frank J.; Sullivan, Edward M.; Bryant, George M.; and Walter, Andrew T., 3,437,719.

Union Industrial Equipment Corporation: *See*—
White, Carl B., 3,460,153.

Union Manufacturing Company: *See*—
Nestrock, Fred Leonard, 3,421,508.

Union Metal Manufacturing Company, The: *See*—
Morgan, Thomas J.; Pearl, Blaine H.; and Pearson, Gilbert D., 3,454,252.

Union Oil Company of California: *See*—
Annable, Weldon G.; and Mueller, Frederick L., 3,442,630.
Atkins, Earle R., Jr., 3,428,127.
Backlund, Peter Stanley, 3,422,015.
Backlund, Peter Stanley, 3,457,036.
Biale, Giovanni, 3,481,987.
Biddick, Royce E., 3,475,222.
Dekking, Henri G. G., 3,442,826.
Dekking, Henri G. G., 3,455,853.
Fenton, Donald M., 3,422,147.
Fenton, Donald M., 3,442,944.
Fenton, Donald M., 3,480,669.
Fenton, Donald M., 3,481,845.
Fierce, William L., 3,461,156.
Fraase, Edward O.; and Marsh, Glenn A., 3,451,856.
Gallus, Julius P., 3,455,390.
Haines, Robert M.; Klass, Donald L.; and Martinek, Thomas W., 3,452,275.
Harbolt, Bruce A., 3,435,785.
Hass, Robert H.; Helfrey, Paul F.; and Riddick, Frank C., 3,427,243.
Hass, Robert H., 3,458,299.
Holm, LeRoy W., 3,482,632.
Kay, Nicholas L., 3,424,671.
Keller, James L., 3,431,070.
Klass, Donald L.; Martinek, Thomas W.; and Haines, Robert M., 3,468,167.
Marsh, Glenn A., 3,436,320.
Martinek, Thomas W., 3,462,666.
Martinek, Thomas W.; Haines, Robert M.; Weichman, Roger L.; and Trainor, Wilbur J., 3,476,687.
Olivier, Kenneth L., 3,420,873.
Olivier, Kenneth L., 3,444,189.
Olivier, Kenneth L.; and Schaeffer, William D., 3,461,157.
Rai Charanjit, 3,461,287.
Ridgeway, William E., 3,425,555.
Sarem, Amir M., 3,476,186.
Schaeffer, William D., 3,450,748.
Thorne, Gerald; and Millikan, Allen F., 3,426,126.

Tulleners, Anthony J., 3,457,161.
Weichman, Roger L.; and Fierce, William L., 3,442,882.
Weichman, Roger L.; Walsh, John W.; and Fierce, William L., 3,480,568.
Wight, Carlyle G.; Hass, Robert H.; and Hansford, Rowland C., 3,450,626.
Wilkinson, Herbert F., 3,442,627.
Wilkinson, Herbert F., 3,455,658.
Wilkinson, Herbert F., 3,468,788.
Wood, Frederick C.; Dhondt, Roland O.; and Cheadle, George D., 3,458,433.
Young, Billy J., 3,420,627.
Young, Dean Arthur, 3,460,904.
Young, Donald C., 3,447,919.
Young, Donald C., 3,457,062.
Young, Donald C., 3,471,532.

Union Pen & Pencil Corporation: *See*—
Longarzo, Roland, 3,462,232.

Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft: *See*—
Biller, Efim, 3,439,048.
Velling, Gunter, 3,463,824.

Union Special Machine Company: *See*—
Attwood, John G.; and Kosrow, Robert L., 3,447,051.
Ferris, Charles L.; Babecki, Robert J.; Braathen, Finn N.; and Sirovatka, George J., 3,446,106.
Hale, Arthur N., 3,435,790.
Hale, Arthur N.; and Kosrow, Robert L., 3,469,545.
Hayes, Robert A., 3,472,188.
Kosrow, Robert L., 3,425,369.
Kosrow, Robert L.; and Vischer, Peter, 3,457,886.
Kosrow, Robert L.; Matias, James J.; and Hale, Arthur N., 3,486,474.
Lukin, Richard H., 3,450,079.
Rockerath, John L.; and Haugan, John R., 3,435,786.

Union Special Maschinenfabrik G.m.b.H.: *See*—
Schopf, Dieter, 3,424,115.
Schopf, Dieter, 3,424,117.
von Hagen, Wolf-Rudiger, 3,424,116.
Wider, Eberhard, 3,425,287.
Wider, Eberhard, 3,457,888.

Union Starch & Refining Co., Inc.: *See*—
Castiello, Ignacio Aranguren; Sierra, Octavia Vasquez; and Olnick, Jay E., 3,446,663.
Castiello, Ignacio Aranguren; Sierra, Octavio Vasquez; and Olnick, Jay E., 3,446,665.
Huber, Kenneth J.; Johnston, Jack F.; Nissen, Edward K.; and Pourie, De Witt R., 3,424,613.
Tsao, George T.; Reid, Thornton H.; Hiller, Fred L.; and Hubbard, Lawrence H., 3,432,345.
Tsao, George T., 3,483,264.

Union Steel Products Company: *See*—
Frisk, Leslie L., 3,450,250.
Jurasek, Stanley J., 3,442,231.

Union Tank Car Company: *See*—
Brown, Fred, 3,467,027.
Brown, Fred, 3,475,809.
Damiani, Benjamin J., 3,435,984.
Duff, Joseph H., 3,428,177.
Duff, Joseph H., 3,436,260.
Duff, Joseph H., 3,473,661.
Duff, Joseph H., 3,473,665.
Fritz, William E., 3,420,501.
Hiatt, Raymond L., 3,472,420.
Hiers, James E., 3,425,808.
Hiers, James E.; and Grout, Edward C., 3,433,259.
Kruizenga, Jack R.; Graves, Donald C.; and Role, Harry, 3,479,724.
Kryzer, Benjamin H.; and Hiers, James E., 3,442,624.
Marulic, Walter J., 3,426,934.
McKinney, Ross E., 3,462,360.
Parks, John W., 3,448,885.
Schlink, Laurence J., 3,424,352.
Schoenecker, Thomas J.; and Olson, Robert L., 3,424,100.
Sorientc, Alfonse J.; and Duff, Joseph H., 3,472,382.
Tischler, Edward J., 3,448,625.
Varnes, John D., 3,474,740.

Union Tank Company: *See*—
Hiers, James E.; and Grout, Edward C., 3,426,603.

Union Tool & Engineering Co.: *See*—
Trueblood, Elmer D., 3,436,793.

Unipak, Inc.: *See*—
Graves, Bryan E., 3,456,753.

Unipress Company, Incorporated, The: *See*—
Carpenter, Virgil R., 3,473,708.
Carpenter, Virgil R., 3,473,709.

Unipunch Products, Inc.: *See*—
Weisbeck, Ralph L., 3,429,212.

Unique Associates: *See*—
Kite, Charles Kenneth; and Puleo, Elio J., 3,438,642.

Uniroyal Englebert France S.A.: *See*—
Leblond, Jean, 3,473,422.
Mirtain, Henri, 3,473,594.

Uniroyal, Inc.: *See*—
Ames, Ronald B.; and Smith, Allen E., 3,462,259.
Ariyan, Zaven S., 3,479,369.
Bevilacqua, Edward M., 3,451,459.
Bonino, Bruce S., 3,451,278.
Boyne, William J.; Little, Jack R.; and Wagner, Ulrich, 3,432,993.
Brindell, Gordon D., 3,467,737.
Bushnell, Lester P., 3,444,035.
Chmiel, Chester T.; and Witt, Harry S., 3,421,766.
Clarkson, Robert J.; and Miller, Robert, 3,441,989.
Coover, Harry W., Jr.; and Joyner, Frederick B., 3,439,066.
Covey, Rupert A.; Smith, Allen E.; and Hubbard, Winchester L., 3,463,859.
Elliott, Daniel R., 3,430,132.
Falkenau, Vernon A., 3,446,393.
Ferguson, Leslie A.; and Williams, George M., 3,434,860.
Garner, Harold K.; and Matthews, Demetreos N., 3,441,546.
Garner, Harold K., 3,475,361.
Gianatasio, Philip A., 3,457,234.
Goldfinger, George, 3,447,363.
Hageman, Howard A.; and Hubbard, Winchester L., 3,458,304.
Hewitt, Eugene E., 3,444,018.
Hewitt, Eugene E., 3,468,732.
Hewitt, Eugene E., 3,481,803.
Hugger, Richard H., 3,443,280.
Hunter, Byron A., 3,424,821.
Hunter, Byron A., 3,467,735.
Hunter, Byron A., 3,468,855.
Hunter, Byron A., 3,477,987.
Kato, Haruto P., 3,447,202.
Kehoe, Norman T.; and Stiegler, Elwood A., 3,479,238.
Kelly, Harlan H., 3,455,156.
Kelly, Robert J., 3,444,149.
Kienle, Robert N., 3,457,326.
Kindle, Robert W., 3,443,619.
Klender, Gerald J., 3,453,235.
Klender, Gerald J., 3,459,838.
Lainas, Telemahos G.; and Gaetz, Roderick R., 3,472,379.
Loshigian, Henry H., 3,443,020.
Loveless, Frederick C.; and Kelly, Robert J., 3,448,174.
Loveless, Frederick C., 3,459,718.
Matthews, Demetreos N., 3,462,399.
Maxham, Daniel W., 3,446,252.
Mazur, Richard A., 3,423,273.
Miller, Robert; Farber, Milton; and Loveless, Frederick C., 3,432,250.
Miller, Robert; and Farber, Milton, 3,439,999.
Miller, Robert; Farber, Milton; and Shichman, Daniel, 3,485,574.
Paige, John L.; and Di Palma, Sebastian M., 3,437,645.
Percarpio, Edward P.; and Bevilacqua, Edward M., 3,482,430.
Rinehart, Robert E., 3,433,808.
Rinehart, Robert E., 3,435,016.
Rinehart, Robert E., 3,472,873.
Rinehart, Rogert E., 3,435,058.
Sauer, Herman C., 3,477,895.
Savage, Richard L., 3,469,977.
Soucy, Philippe, 3,457,359.
Steel, Robert N.; Butsch, Paul V.; and Nojiri, Richard T., 3,462,326.
Sundholm, Norman K., 3,427,282.
Sundholm, Norman K., 3,452,056.
Sundholm, Norman K., 3,481,900.
Tarpinian, Haig D.; and Wolczynski, Thaddeus, 3,485,089.
Tarpinian, Haiq D.; and Friedmann, Harry, 3,479,867.
Ugo, John W.; and Tomsic, Walter J., 3,460,119.
von Schmeling, Bogislav; and Covey, Rupert A., 3,428,734.
Von Schmeling, Bogislav; and Kulka, Marshall, 3,454,391.
Walters, Marvin W., 3,426,116.
Wetzel, Robert E., 3,478,612.
Youngblood, Leonard C.; Zaffaroni, Peter P.; and Jablonski, Casmer S., 3,467,989.
Zaffaroni, Peter P.; and Youngblood, Leonard C., 3,467,988.

Uniroyal Limited: *See*—
Robertson, John R., 3,432,583.

Uniseal, Inc.: *See*—
Zahn, Walter J., 3,456,408.

Unisearch Limited: *See*—
Tassicker, Owen James; McLean, Kenneth James; and Herceg, Zlatko, 3,473,118.

Unistrut Corporation: *See*—
Attwood, Warren R.; and Henry, Herbert J., 3,468,567.
Papayoti, Hristo V., 3,443,348.

Unit Process Assemblies, Inc.: *See*—
Lieber, Sidney U.; and Hay, William D., 3,421,000.
Lieber, Sidney U.; and Hay, William D., 3,456,115.

Unitcast Corporation: *See*—
Brown, Floyd R.; and Floehr, Walter L., 3,433,201.
Floehr, Walter L., 3,434,433.

Ingram, Orville, 3,474,741.
United Aerotest Laboratories, Inc.: *See*—
Frezzolini, James A., 3,445,745.
Frezzolini, James A., 3,463,996.
United Air Specialists, Inc.: *See*—
Cheney, William A.; and Rorie, Durwood G., Jr., 3,421,290.
United Aircraft Corporation: *See*—
Aas, Herbert G., 3,421,031.
Aas, Herbert G.; and Danielson, George E., Jr., 3,435,372.
Abel, Irving R.; and Kegelman, Thomas D., 3,446,916.
Abild, Robert N., 3,471,126.
Amoruso, Donald J.; and Botwin, Leo, 3,427,616.
Anderson, Ralph, 3,427,368.
Arnoldi, Walter E.; Birbara, Philip J.; and Russell, Sid, 3,440,153.
Ask, Henry R., 3,421,719.
Ask, Henry R., 3,477,152.
Babic, George M., 3,442,180.
Baker, Leonard, 3,469,213.
Ball, Richard H., 3,426,744.
Barnes, Philip E.; and Kusiak, Edward H., 3,470,748.
Barry, Frank W., 3,450,142.
Basche, Malcolm; Fanti, Roy; and Galasso, Salvatore F., 3,443,301.
Basche, Malcolm, 3,463,119.
Benincasa, John J.; and Hage, Marvin L., 3,463,526.
Berkley, Stanley G., 3,469,062.
Best, Stanley G., 3,434,407.
Best, Stanley G., 3,447,377.
Best, Stanley G., 3,458,682.
Beurer, Frederick C., Sr., 3,421,296.
Bogue, David L., 3,479,819.
Bradley, Elihu F.; Bartlett, Edwin S.; Ogden, Horace R.; and Jaffee, Robert I., 3,442,720.
Brahm, Charles B., 3,459,966.
Brahm, Charles B.; Corcoran, John M.; Glista, Edward M.; and Van Olinda, David L., 3,478,512.
Brahm, Charles B., 3,484,778.
Brienza, Michael J., 3,463,573.
Brose, Harlan F., 3,425,233.
Brose, Harlan F., 3,479,144.
Brown, Clyde O., 3,454,827.
Brown, William H., 3,449,914.
Buntschuh, Henry C.; and Duvoisin, Jean A., 3,431,525.
Burroughs, Lester R., 3,482,262.
Bushnell, Calvin L.; and Latimer, Howard J., Jr., 3,441,442.
Buswell, Richard F.; Sederquist, Richard A.; and Setzer, Herbert J., 3,446,594.
Buswell, Richard F.; Setzer, Herbert J.; and Sederquist, Richard A., 3,476,534.
Buswell, Richard F., 3,476,535.
Camarata, Frank Justin, 3,447,383.
Campbell, Daniel H., 3,485,290.
Carlin, William F., III.; Blatter, Albert; and Reiff, Albert T., Jr., 3,443,428.
Chamberlain, John, 3,473,343.
Cheatham, Robert G.; and Cheatham, Joseph F., 3,427,185.
Chesnut, Merrill G.; and Ball, Richard H., 3,421,497.
Chesnut, Merrill Gaines; and Callaghan, Phillip B., 3,426,743.
Chesnut, Merrill Gaines, 3,428,042.
Corso, Joseph J., 3,471,108.
Corwin, Frank R., 3,476,658.
Cox, John E.; and Veltri, Richard D., 3,483,072.
Cripe, Alan R., 3,424,105.
Cripe, Alan R., 3,433,177.
Davis, Jack W., 3,430,091.
Davis, Jack W.; and Ferreira, Fernand J., 3,466,487.
Davison, Bartholomew J.; and Peracchio, Aldo A., 3,476,131.
De Maria, Anthony J., 3,464,027.
Delaney, Everett W., 3,432,121.
DeMaria, Anthony J., 3,485,559.
Di Curcio, Robert A., 3,461,547.
Di Piro, Joseph, 3,421,717.
Durno, Ronald A.; and Huly, William, 3,438,596.
Emmons, Floyd R., 3,426,984.
Emmons, Floyd R., 3,473,460.
Erf, Robert K.; Wingfield, Edward C.; and Aas, Herbert G., 3,480,368.
Feder, Ernest, 3,428,272.
Feder, Ernest; Kransnitski, John; and Vercellone, Peter T., 3,454,242.
Feigin, Leon, 3,444,552.
Ferris, Donald L., 3,438,447.
Ferris, Donald L.; and Zisman, Bernard, 3,465,831.
Fisher, George A., 3,477,344.
Flanagan, William J.; and Lee, David Q., 3,430,624.
Friedrich, Leonard A.; and Hirakis, Emanuel, 3,446,606.
Galasso, Salvatore F., 3,464,785.
Galasso, Salvatore F.; and Graf, Robert B., 3,483,139.
Gaubis, Leonard L.; and McDonough, Thomas F., 3,439,745.
Gauss, Hugo E.; Real, Raymond V.; and Rosa, Vincent J., 3,427,038.
Gehringer, Joseph H.; and Vercellone, Peter T., 3,421,718.
Gelting, Raymond L., 3,436,272.
Gelting, Raymond L.; Fiorentino, Anthony J.; and Rogers, Arthur C., 3,476,609.
Giannamore, Ronald J., 3,454,834.
Giner, Jose D., 3,446,672.
Giner, Jose D., 3,446,674.
Goodwin, Raymond Wendell; and Cuccia, John F., 3,438,268.
Goodwin, Raymond Wendell; and Greenspan, Marshall, 3,470,429.
Gould, John V.; and Jahrstorfer, George W., 3,471,920.
Graf, Robert B., 3,483,140.
Graham, Richard H.; and Wingfield, Edward C., 3,426,174.
Gray, Larry, 3,471,080.
Greiner, Leonard, 3,427,803.
Greiner, Leonard, 3,430,602.
Greiner, Leonard, 3,469,555.
Griffin, Kenneth R., 3,463,844.
Grosh, James L.; and Frey, Christian M., 3,423,816.
Grosh, James L., 3,470,917.
Grosh, James L., 3,483,896.
Grubaugh, Robert E.; and Elliott, Lee E., 3,422,439.
Gugliotti, Louis M., Jr.; and Wells, John C., 3,471,714.
Gugliotti, Louis M., Jr., 3,471,794.
Hadden, Edward H., 3,422,956.
Harris, Charles P.; and Ellis, Sheldon G., 3,461,672.
Holzman, Allen L.; and Allport, John J., 3,449,600.
Huebscher, Richard G.; and Hacha, Thomas H., 3,455,743.
Hughes, John V., 3,430,049.
Jennings, David C., 3,451,257.
Jennings, David C., 3,457,040.
Jennings, John L., 3,463,404.
Jones, Burton A.; and Fidler, Larry E., 3,452,769.
Jones, Richard A., 3,435,996.
Jusyk, Stanley J., 3,476,140.
Keistman, Arnold R.; and Weakley, Robert H., 3,433,983.
Klopfer, Henry E., 3,450,906.
Kosowsky, Lester H., 3,480,957.
Kristy, John A.; and Rinehart, Robert D., 3,471,850.
Kurti, Alexander; and Batt, Richard W., 3,485,450.
Labrecque, Jean P., 3,430,896.
Lai, William, 3,439,612.
Lamonde, Romeo Leon; and Fiedorowicz, John Joseph, 3,463,901.
Lanctot, Robert S.; and Scheidler, Frederick E., 3,454,046.
Langston, Chandos E., Jr., 3,463,402.
Larson, Swan William, 3,465,119.
Lazarewicz, Lucian M., 3,487,465.
Lazecki, Stanislaw V., 3,441,720.
Lemkey, Franklin D., 3,434,827.
Lewis, George D., 3,426,409.
Lewis, George D.; and Dahlberg, Donald E., 3,446,024.
Lewis, George D.; and Ford, Harvey J., 3,483,698.
Lightfoot, Ralph B., 3,464,651.
Lynch, John M.; and Hill, John G., 3,480,716.
Lynch, Thomas J., 3,465,103.
Markowski, Stanley J., 3,429,509.
Maxwell, Douglas H., 3,450,512.
Maxwell, Douglas H.; and Suyama, Frank, 3,462,820.
McGivern, James F., Jr., 3,450,605.
Meyerand, Russell G., Jr.; and Haught, Alan F., 3,463,588.
Moffatt, Elbert Marston, 3,469,445.
Moffatt, Elbert Marston, 3,470,395.
Morgan, Huw C.; and Sterritt, Lanny W., 3,443,870.
Mosier, Stanley A., 3,446,023.
Motycka, David L., 3,454,227.
Nakagawa, Thoshio William; and Rudy, Thomas P., 3,427,351.
Niedzielski, Robert M.; and Powers, Donald E., 3,444,350.
Nordholm, Herbert V., Jr., 3,482,486.
Noren, Hilmer K., 3,423,071.
O'Connor, James G., 3,426,527.
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B., 3,421,330.
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B., 3,478,230.
Packer, Louis L.; McKenzie, Robert D.; and Haley, Joseph P., 3,438,365.
Pendoley, Frederick M., Jr.; and Thompson, Ransom S., 3,426,974.
Penney, Albert W., Jr., 3,444,460.
Peters, George T.; and Oickle, Charles, Jr., 3,434,569.
Picarcey, Barry J., 3,485,291.
Pomante, Louis N., 3,478,418.
Preli, Francis R.; and Olson, Robert E., 3,444,873.
Preston, Frank S., 3,438,033.
Preston, Frank S., 3,454,944.
Putnam, David F., 3,428,535.
Quenneville, Raymond N., 3,434,365.

Quenneville, Raymond N., 3,441,116.
Quenneville, Raymond N.; and Gaubis, Leonard L., 3,463,237.
Quenneville, Raymond N., 3,463,269.
Quenneville, Raymond N., 3,484,176.
Radtke, Edward William, 3,463,390.
Rannenberg, George C., 3,428,242.
Rannenberg, George C., 3,440,147.
Rannenberg, George C., 3,451,219.
Raposa, Frank L., 3,475,675.
Rhines, Thomas B., 3,426,679.
Rice, Charles K.; and Whittier, James Y., 3,453,986.
Richmond, Irving D., 3,480,959.
Riecke, George T., 3,485,045.
Roberts, Frank, Jr., 3,442,712.
Rockenfeller, John D., 3,435,624.
Rosica, Gabriel A.; and Daigle, Louis L., 3,486,108.
Rovan, Joseph W., 3,476,906.
Rudy, Thomas P.; and Nakagawa, Toshio William, 3,442,726.
Rudy, Thomas P.; Nakagawa, Toshio W.; and Greendorfer, Joseph M., 3,480,488.
Ruggiero, Edward M., 3,461,462.
Russell, Sid, 3,463,709.
Rybicki, Robert C., 3,484,173.
Sanderson, Robert A., 3,473,963.
Sandy, James J., Jr., 3,485,541.
Sansevero, Vincent J., Jr., 3,482,405.
Schile, Richard D., 3,461,943.
Schleich, Fritz; and Scheffels, Wilhelm, 3,469,065.
Schmidtke, Richard A.; and Polhemus, Frederick C., Jr., 3,477,262.
Schollhammer, Frederick Richard, 3,483,352.
Schwarzschild, Jack, 3,425,759.
Sederquist, Richard A., 3,442,618.
Sederquist, Richard A., 3,449,168.
Sederquist, Richard A.; Buswell, Richard F.; and Setzer, Herbert J., 3,450,567.
Sedlock, Edward J.; Paquette, Charles F.; and Selfors, Henry J., 3,471,727.
Seger, Charles C.; and Emmons, Floyd R., 3,436,039.
Setzer, Herbert J.; and Eggen, Alfred C. W., 3,450,500.
Setzer, Herbert J., 3,480,417.
Setzer, Herbert J.; and Whiting, Richard W., 3,485,746.
Sevetz, Edward B.; and Freeman, Leston M., Jr., 3,443,791.
Sherman, Robert; Babic, George M.; and Posnansky, Hernan A., 3,464,319.
Shinn, Byron H.; and Todd, Herbert E., 3,432,587.
Shohet, Herbert N.; Amelio, Armand F.; House, Richard L.; and Kowalonek, John M., 3,449,891.
Sikes, Richard L.; and Giannamore, Ronald, 3,439,252.
Sizer, John H., Jr.; and Giner, Jose, 3,470,028.
Smith, James E., 3,420,170.
Smith, James E., 3,455,239.
Smith, Russell R.; and Sonnemann, George, 3,479,471.
Spiegler, Kurt S.; and Routsis, Kostas, 3,466,138.
St. Laurent, Norman R., 3,453,987.
Stone, Robert A.; and Carnell, Brian L., 3,486,832.
Talboom, Frank P., Jr.; and Petrusha, John A., 3,477,831.
Tatom, Eugene, 3,456,168.
Turner, Darrell J.; Chase, Charles A.; and Gardiner, Michael C. S., 3,430,900.
Tyler, John M.; Havens, Frederick D.; Hickok, Richard C.; and Feder, Ernest, 3,420,053.
Tyler, John M., 3,428,273.
Urie, Robert G.; and Radtake, Edward W., 3,451,473.
Vacca, Luigi; and Zincone, Robert, 3,428,132.
Vacca, Luigi; and Ferris, Donald L., 3,438,446.
Vacca, Luigi; and Ferris, Donald L., 3,484,175.
Veltri, Richard D.; and Cox, John E., 3,481,390.
Walch, Allan P., 3,454,812.
Wetherbee, Arthur E., Jr., 3,481,254.
Wilcox, Ernest W.; and Lillberg, John W., 3,480,307.
Wise, Ann R., 3,443,944.
Wood, Theodore H., 3,483,351.
Yenawine, David L.; and Hirakis, Emanuel C., 3,432,334.
Ziermann, Hermann; and Olson, Robert E., 3,435,822.

United Aircraft of Canada Limited: *See*—
Jarosz, Stanislas; and Kenny, David Patrick, 3,420,435.
Langshur, Herbert Hugh, 3,424,433.
MacArthur, Alexander D.; and Thompson, Robert G., 3,481,531.

United Aircraft Products, Inc.: *See*—
Campbell, Robert L., 3,420,293.
Fernandes, Joseph, 3,440,833.
Hughes, Paul R.; and Lord, Thomas J., 3,456,685.
Klank, Walter C., 3,473,210.
Lane, Frank B., 3,452,701.
Lord, Thomas J., 3,436,140.
Otto, Howard R., 3,461,956.
Wunder, John E., 3,465,538.

United Company, The: *See*—
Cover, Ralph; and Kemper, Clyde A., 3,427,004.
Kemper, Clyde, 3,424,212.

United Control Corporation: *See*—
Clark, Donald E.; and Eide, Melvin O., 3,435,670.
Eide, Malvin O., 3,482,175.
Johnson, Wayne R., 3,440,339.
Johnson, Wayne R.; and Jorgensen, Finn, 3,467,789.
Roelofs, Richard V., 3,436,490.
Seeley, Eugene B., 3,438,254.

United Electric Controls Company: *See*—
Reis, Robert D., 3,470,909.

United Engineering & Constructors, Inc.: *See*—
Milbourne, Charles Gordon; and Pinkston, John T., Jr., 3,420,641.
Milbourne, Charles Gordon; and Pinkston, John T., Jr., 3,429,678.
Pinkston, John T., Jr.; and Milbourne, Charles Gordon, 3,429,677.

United Engineering and Foundry Company: *See*—
Adair, James Richard, 3,438,234.
Adair, James Richard, 3,442,029.
Adair, James Richard, 3,459,023.
Ellis, Robert Hunter; and Lund, Peter Arvid, 3,438,296.
Greenberger, Joseph I., 3,433,287.
Greenberger, Joseph I., 3,435,879.
Greenberger, Joseph Irwin, 3,443,805.
Greenberger, Joseph Irwin, 3,464,482.
McGeeney, William Stone, 3,434,528.
O'Brien, Jeremiah Wagner; and O'Keefe, John Thomas, 3,420,084.
O'Brien, Jeremiah Wagner, 3,421,352.
O'Brien, Jeremiah Wagner, 3,425,249.
O'Brien, Jeremiah Wagner, 3,431,762.
O'Brien, Jeremiah Wagner, 3,435,649.
O'Brien, Jeremiah Wagner, 3,443,770.
O'Brien, Jeremiah Wagner, 3,446,050.
O'Keefe, John Thomas, 3,456,819.
Orris, John Adam; and Daroszewski, Leon, 3,435,884.
Shumaker, Charles Storer, 3,462,094.
Sieger, Maurice Paul; and Stiveson, Robert A., 3,434,378.
Stone, Morris Denor; and Sieger, Maurice Paul, 3,422,655.
Stone, Morris Denor, 3,459,019.
Tobin, Henry G., Jr.; and Van Scoyoc, James N., 3,433,058.

United Fruit Company: *See*—
Badran, Adnan M., 3,450,542.
Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George, 3,450,543.
Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George, 3,450,544.
Roberts, Jeremy Brown; Jones, Dallas E.; and Badran, Adnan M., 3,440,143.

United Gas Industries Limited: *See*—
Baker, Ian P. S.; and Wade, Kenneth R., 3,428,040.

United Geophysical Corporation: *See*—
Swan, Merrill L., 3,444,360.
Swan, Merrill L., 3,449,553.

United Glass Limited: *See*—
Adcock, Edmund Philip; and Stanley, Joan Ann, 3,460,310.
Budd, Sidney Maurice, 3,451,795.
Budd, Sidney Maurice, 3,463,658.

United Industrial Syndicate, Inc.: *See*—
Auzins, Raimunds; Sigman, Earl H.; and Schneider, Alfred, 3,469,716.
Bosworth, Delbert B.; Christy, Arthur S., Jr.; and La Rochelle, Fernand L., 3,434,609.
Howarth, Walter H.; Snow, Gerald A.; and Doughty, Harold A., 3,458,108.

United Industries: *See*—
Baerhold, Carl O.; and Griffith, David K., 3,450,324.

United Kingdom Atomic Energy Authority: *See*—
Ainsworth, Alan, 3,428,189.
Allsopp, Peter James, 3,458,004.
Boorman, Colin; and Betts, Colin, 3,439,737.
Bounden, John Ellery; and Large, Leslie Noel, 3,448,314.
Boyce, Ian Stanley; and Ahier, Thelma Grace, 3,467,824.
Calow, Clifford Aubrey, 3,450,510.
Campion, Peter, 3,427,221.
Chetter, John; and Jones, Cecil Henry, 3,442,763.
Cooke-Yarborough, Edmund Harry; and Gibbons, Peter Edwin, 3,461,297.
D'Eye, Royston Walter Mastin; and Shennan, John Vincent, 3,463,702.
Denton, Ivor Edison, 3,442,762.
Downs, Arthur; and Maclean, Clive, 3,422,245.
Dugdale, Ronald Arthur; and Ford, Stanley Denis, 3,482,133.
Edwards, Derrik Robert, 3,441,035.
Ellington, John Peter, 3,431,169.
Ford, Lionel Houston, 3,480,702.
Fowler, Eliot Patrick; Harrison, Donald; and Levell, Roy William, 3,426,199.
Green, Derek, 3,427,843.
Green, Derek, 3,434,320.

Greenhalgh, Frank Geoffrey; and Cairns, Walter John, 3,425,905.
Hackney, Stanley; and Davidson, Daniel Fraser, 3,431,167.
Hardy, Harold Kenyon; and Jones, Cecil Henry, 3,440,849.
Hodgkinson, William Lloyd, 3,432,661.
Holister, Geoffrey Stanley; Luxmoore, Anthony Rodger; and Parish, Colin Clive, 3,453,739.
Hooton, Ivor Noel, 3,435,197.
Hooton, Ivor Noel; Best, Geoffrey Cyril; and Lewis, Alan, 3,482,036.
Horsley, Geoffrey Winton, 3,457,334.
Hudswell, Fred; and Waldron, John Clifford Hildrith, 3,481,694.
Huston, Alexander Edward; and Procter, David Alwyn, 3,443,148.
Hutchinson, William George; and Cole, Leslie Charles, 3,421,977.
Jared Marshall; and Steer, Colin, 3,486,219.
Legge, Percy, 3,482,360.
Linning, David Lees, 3,421,979.
Martin, John Christopher; and Smith, Ian Douglas, 3,456,221.
McCann, John David; and Fuller, Robin Walter Ellecker, 3,479,551.
Nash, Geoffrey James Chetewoode; and Harding, Keith, 3,432,666.
Ormerod, Leslie Roy, 3,434,192.
Ormerod, Leslie Roy, 3,434,323.
Perry, Kenneth Edward Gordon, 3,487,209.
Poole, Keith Roderick, 3,437,442.
Prince, Norman; and Coast, Geoffrey, 3,486,976.
Rennie, Compton Alexander; Lockett, George Edward; and Acciarri, Pietro, 3,427,220.
Rhodes, John Rathbone, 3,448,264.
Rigg, Shepherd, 3,442,760.
Roach, Peter Francis; and Davidson, Daniel Fraser, 3,462,997.
Roach, Peter Francis, 3,481,181.
Robbins, Eric John, 3,426,222.
Saunders, Alan Charles Anthony, 3,477,909.
Simpson, Malcolm Patrick; Hardwick, William Horton; Blundy, Peter Desmond; and Morris, David Rowland, 3,431,071.
Stamford, Stanley; Terry, James Bernard; Gratton, Charles Peter; and May, William Charles, 3,441,477.
Taylor, Roland, 3,429,103.
Taylor, Roland, 3,453,807.
Thomas, Colin Reginald, 3,442,830.
Thompson, Peter John, 3,455,134.
Wace, Peter Frederick, 3,445,382.
Webb, John; Gatley, John Andrew; and McFall, Albert, 3,453,867.
Williams, John Eric Charles Watts, 3,437,459.
Yeats, Francis William; and Stevenson, Jeremy, 3,472,702.

United Kingdom of Great Britain & Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the:*See*—
Dixon, John Bell, 3,439,937.

United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britanic Majesty's Government of the: *See*—
Allcock, Alastair William Rodney, 3,426,981.
Blackband, William Thomas; and Nichols, David Edgar Thomas, 3,453,623.

United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of The:*See*—
Booth, Stanley Henshaw, 3,461,744.

United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the:*See*—
Burr, Donald William, 3,438,292.
Burton, Derek Rodney; Judd, Bertie William; and Collier, Leslie, 3,425,486.

United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the:*See*—
Burton, Derek Rodney, 3,475,918.
Campbell, Ronald, 3,447,203.
Clare, Harold; and Sherwood, Michael, 3,455,108.
Clarke, George Farren, 3,487,408.

United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in her Britannic Majesty's Government of the:*See*—
Dixon, John Bell, 3,456,458.

United Kingdom of Great Britain and Northern Ireland, Minister of Supply in Her Britannic Majesty's Government of the:*See*—
Erwood, Charles William, 3,475,571.

United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the:*See*—
Gray, Reginald I., 3,436,693.

United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the:*See*—
Hamer, Ronald, 3,427,561.

United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the:*See*—
Isaacs, Anthony Leonard; and Allen, Dennis William, 3,449,677.
Johnson, Eric Arthur, 3,482,241.

United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the:*See*—
Parratt, Noel James, 3,442,997.
Pierce, Donald, 3,443,598.

United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the:*See*—
Rosser, Reginald John, 3,468,127.
Sawyer, Benjamin Robinson, 3,440,924.

United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the:*See*—
Shaw, Harry, 3,458,119.

United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the:*See*—
Townend, Lionel Henry, 3,443,757.

United Kingdom of Great Britain and Northern Ireland, Minister of Public Building and Works in Her Britannic Majesty's Government of the:*See*—
Watson, Alexander, 3,430,021.

United Kingdom Optical Company Limited: *See*—
Binstead, Hugh Cecil; and Rondeau, George Edgar, 3,467,466.

United Lighting and Ceiling Co.: *See*—
Schwartz, Robert A. D.; and Pfeiffer, Philip W., 3,480,246.

United Manufacturers, Inc.: *See*—
Blair, Calvin B., 3,436,903.
Blair, Calvin B., 3,443,708.
Blair, Calvin B., 3,455,477.

United Medical Laboratories, Inc.: *See*—
Chapin, Keith K.; and Alen, Paul R., 3,470,847.
Michel, Raymond S., 3,428,186.
Michel, Raymond S., 3,446,342.

United Merchants and Manufacturers, Inc.: *See*—
Bonnard, Gabriel, 3,481,370.
Goldfarb, Alvin; and Geiler, William A., 3,464,413.
Gordon, Alex F., 3,458,869.
Hashe, Ambrose L., Jr., 3,460,360.
Hashe, Ambrose L., Jr., 3,460,361.
Kilgour, Gilbert Innes; and Ziegler, George Edward, 3,460,362.
Solomon, Gerald Louis, 3,455,642.
Wignall, Norman; and Ridyard, John, 3,428,007.
Ziegler, George Edward, 3,462,979.

United Nuclear Corporation: *See*—
Cooper, Martin H.; and Hawkins, Thomas D., 3,450,508.
Kolodney, Morris, 3,451,256.
Kolodney, Morris; Minushkin, Bertram; and Rosh, Donald M., 3,481,855.
Mittelman, Phillip S., 3,423,844.

United Parmatic Corporation: *See*—
Parkinson, John; Eibich, Alfred; and Saylor, Edward T., Jr., 3,442,248.

United Piece Dye Works: *See*—
Blount, Charles, Jr.; and Niepraschk, Arno, 3,477,073.

United Service Equipment Co., Inc.: *See*—
McKechnie, Ian C., 3,436,136.
Stentz, Blair E., 3,454,319.

United Sheel Metal Co., Inc.: *See*—
Turner, Lloyd Bowman; and Harmon, William M., 3,485,284.

United Sheet Metal Co., Inc.: *See*—
Vassaux, Ricardo A., 3,467,163.

United Shoe Machinery Company AB: *See*—
Hagelin, Erik Gustav; and Lenngren, Eric Folke Odel, 3,451,696.

United Shoe Machinery Corporation: *See*—
Atkin, Ronald, 3,446,879.
Battersby, William R., 3,468,978.
Bayless, Frank K.; and Robinson, Hugh A., 3,451,495.
Becker, Karl V., 3,422,797.
Carlson, John H.; and Scott, Ernest H., 3,424,273.
Chaplin, Hubert O.; McQueen, Roy D.; and Lee, Kenneth, 3,423,779.
Fake, Harry B., 3,468,275.
Fichtner, Rudi, 3,470,755.
Giellerup, Leon W., 3,483,020.
Goodchild, William C., Jr.; and Chesluk, John T., 3,444,313.
Highberger, John H.; and Whitmore, Robert A., 3,433,864.
Ishikawa, Shoichi, 3,469,463.
Kvavle, Robert C.; Lewis, William L.; and De Caro, Charles J., 3,469,757.
MacDonald, Theodore, 3,452,377.
McCool, Edward T., 3,483,016.
Musser, C. Walton, 3,431,036.
Musser, C Walton, 3,435,705.
Newton, Charles G., Jr., 3,445,272.
Poedll, Howard I., 3,474,845.
Radcliffe, Milton R.; and Newton, Charles G., Jr., 3,450,556.
Stanton, Leo F.; Ripley, Donald E.; and Mattern, Frank C., Jr., 3,441,966.
Suh, Nam P., 3,423,357.
Taylor, John J.; and Wale, Edward H., 3,481,003.
Tu, Shu-Tung, 3,440,131.

United Shoe Machinery Corportion: *See—*
Battersby, William R., 3,437,063.
United States Bedding Company, The: *See—*
Bronstien, Edward L., Jr.; Akerson, David W.; Gaffney, Bernard J.; and Fisher, Richard A., 3,429,767.
Bronstien, Edward L., Jr.; Fisher, Richard A.; and Gold, Gorge, 3,449,190.
Robinson, Dale D., 3,426,371.
United States Borax & Chemical Corporation: *See—*
Babcock, Edward V., 3,474,166.
Biddulph, Richard Hampton, 3,464,816.
Campbell, George W., Jr.; Nies, Nelson P.; and Atteberry, Johnny C., 3,479,137.
Clark, Howard P.; Barnhill, Kenneth S., Jr.; and Wilson, Martin, 3,446,443.
Colombo, Francesco; and Babcock, Edward V., 3,434,796.
Fish, Richard H., 3,422,127.
Fish, Richard H., 3,458,549.
Fish, Richard H., 3,462,435.
Fusby, Lloyd L., 3,468,627.
Goldsmith, Henry A., 3,474,037.
Hunter, Don L., 3,464,989.
Katz, Jacob M., 3,429,630.
Kitasaki, Kiyoshi; Bengelsdorf, Irving S.; and Crawford, Robert F., 3,443,925.
Kitasaki, Kiyoshi; and Crawford, Robert F., 3,443,926.
Michaels, John, 3,465,924.
Nies, Nelson P.; and Sprague, Robert W., 3,466,147.
Sawyer, Dwight L., 3,468,626.
Schwalley, Lawrence L., 3,461,074.
Schwalley, Lawrence La Berne, 3,481,878.
Silver, Howard Bernard; and Thompson, Raymond, 3,422,125.
Sprague, Robert W., 3,468,628.
Sprague, Robert W., 3,471,255.
Thompson, Raymond; and Harris, James D., 3,434,999.
Wilson, Martin, 3,424,310.
Young, John T.; and Jacobs, Paul F., 3,464,810.
United States Catheter & Instrument Corporation: *See—*
Muller, Wolf F., 3,452,740.
Muller, Wolf F., 3,452,742.
United States Ceramic Tile Company: *See—*
Feichter, Harold R.; Abernethy, Ira A.; Eishley, Charles F.; Cable, Stephen J.; and Hoffman, Olin M., 3,444,660.
United States Drill Head Company: *See—*
Bashor, James R., 3,431,799.
United States Envelope Company: *See—*
Allison, Robert D., 3,426,961.
Burnett, Robert C., 3,460,743.
Carrigan, Robert J.; and Stone, Ralph K., 3,446,421.
Carrigan, Robert J., 3,482,763.
Hanson, Bror E., 3,441,268.
Hanson, Bror E., 3,466,984.
Knapp, Frank T., 3,479,025.
Stutz, William, 3,472,505.
United States Gypsum Company: *See—*
Balinski, Henry A., 3,461,638.
Disney, Virgil V.; and Ptasienski, Mitchell P., 3,435,582.
Hurd, Jerome N., 3,476,302.
Janninck, Donald R., 3,486,965.
Mc Cleary, Robert E.; and Decker, Robert L., 3,459,620.
Nelsson, Nels, 3,444,800.
Nelsson, Nels, 3,445,975.
Porter, William F., 3,484,222.
White, Kendall D., Jr., 3,485,714.
Willey, Grant S., 3,454,456.
United States Machinery: *See—*
Brown, Charles Perrin; and Rose, John, 3,448,569.
United States of America: *See—*
Ahrons, Richard W., 3,483,532.
Autrey, Samuel W., 3,484,738.
Beizer, Boris, 3,446,903.
Brown, Sterling J., 3,447,223.
Burgess, Nathan S., Jr.; and De Lisse, Carroll W., 3,451,862.
Freeborn, John C., 3,431,459.
Gurganious, Joseph T., 3,458,884.
Kaufman, Myron N.; and Lindner, Melvin, 3,479,439.
Kraus, Charles P., 3,459,968.
Kuceris, Arijs L., 3,482,475.
Osdene, Thomas S.; Rane, Leo; and Russell, Peter B., 3,423,509.
Shtikman, Shamuel; and Treves, David, 3,452,259.
Williams, Ross E., 3,453,048.
Wolkstein, Herbert J., 3,440,555.
United States of America , Air Force: *See—*
Sherman, Albert; and McNamara, William A., Jr., 3,432,824.
United States of America
Agriculture: *See—*
Alderton, Gordon, 3,454,406.
Arthur, Jett C., Jr.; and Marcs, Trinidad, 3,443,879.
Beninate, John V.; Boylston, Eileen K.; and Drake, George L., Jr., 3,480,381.
Berardi, Leah C.; Martinez, Wilda H.; Boudreaux, Gordon J.; Piccolo, Biagio; and Frampton, Vernon L., 3,463,641.
Berni, Ralph J.; Benerito, Ruth R.; and McKelvey, John B., 3,464,781.
Black, William A.; Dewar, Eric T.; and Rutherford, David, 3,463,790.
Black, William A. P.; Dewar, Eric T.; and Rutherford, David, 3,420,852.
Black, William A. P.; Dewar, Eric T.; and Rutherford, David, 3,433,738.
Borkovec, Alexej B.; and Settepani, Joseph A., 3,463,851.
Britt, Ramon P., 3,479,729.
Buchanan, Russell A.; Russell, Charles R.; and Weislogel, Orville E., 3,442,832.
Buchanan, Russell A.; and Russell, Charles R., 3,480,572.
Bullock, Joel B.; and Welch, Clark M., 3,459,589.
Camirand, Wayne M.; and Forrey, Ralph R., 3,425,848.
Chance, Leon H.; Leonard, Ethel K.; and Drake, George L., Jr., 3,484,184.
Ciegler, Alex; and Lillehoj, Eivind B., 3,428,458.
Clark, Joe W., 3,445,325.
Conner, Charles J.; and Danna, Gary S., 3,431,059.
Conner, Charles J., 3,446,656.
Conner, Charles J., 3,450,731.
Davison, Verle L.; Pryde, Everett H.; and Moore, Danny J., 3,485,028.
Diamond, Martin J., 3,466,310.
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A., 3,420,700.
Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A., 3,420,701.
Eddy, Gaines W.; Davis, Harry G.; Beroza, Morton; and McGovern, Terrence P., 3,485,868.
Etchells, John L.; Bell, Thomas A.; and Kittel, Ivan D., 3,480,448.
Fellers, David A., 3,463,770.
Feuge, Reuben O.; Lovegren, Norman V.; and Gajee, Betty B., 3,431,116.
Fisher, Charles H.; Knoepfler, Nestor B.; Kingsbery, Emery C.; Cheatham, Robert J.; and Vix, Henry L. E., 3,483,570.
Fong, Willie; Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A., 3,477,803.
Frick, John G., Jr.; and Pierce, Andrew G., Jr., 3,427,121.
Gast, Lyle E.; and Schneider, Wilma J., 3,485,779.
Graham, Robert P.; Hart, Marcus R.; and Morgan, Arthur I., Jr., 3,450,540.
Griffiths, Francis P., 3,463,763.
Gugliemelli, Lewis A.; Weaver, Mary Ollidene; and Russell, Charles R., 3,425,971.
Heiland, Wolfgang K., 3,430,643.
Heiland, Wolfgang K.; and Mercaldo, Raymond G., 3,456,576.
Holmes, Raiford L.; Moreau, Jerry P.; and Novak, Arthur F., 3,427,333.
Horowitz, Robert M.; and Gentili, Bruno, 3,429,873.
Hunter, Irving Robert; and Walden, Mayo K., 3,425,840.
King, Cary Judson, III; and Clark, John Peter, III, 3,453,741.
King, William H., 3,459,555.
King, William H., 3,481,743.
Koch, Peter, 3,443,612.
Kotter, James I.; Salaun, Harold L., Jr.; Wallace, Eugene F.; and Lanigan, James P., Jr., 3,458,904.
Lloyd, Roger A., 3,446,701.
Lyon, Cameron K.; and Applewhite, Thomas H., 3,466,253.
Maher, George C., 3,436,305.
Martens, David G.; and Craft, Edward P., 3,447,279.
Masri, Merle Sid; Vix, Henry L. E.; and Goldblatt, Leo A., 3,429,709.
McKelvey, John B.; Benerito, Ruth R.; and Berni, Ralph J., 3,432,252.
McKelvey, John B.; Benerito, Ruth R.; Berni, Ralph J.; and Burgis, Beverly G., 3,441,609.
Mehltretter, Charles L., 3,477,904.
Needles, Howard L.; and Whitfield, Robert E., 3,427,301.
Parker, Winfred E.; and Koos, Ronald E., 3,423,319.
Pierce, Andrew G., Jr.; and Frick, John G., Jr., 3,441,366.
Pierce, Andrew G., Jr.; and Frick, John G., Jr., 3,441,367.
Pittman, Allan G.; and Wasley, William L., 3,465,050.
Pittman, Allen G.; and Wasley, William L., 3,420,793.
Pittman, Allen G.; and Wasley, William L., 3,422,131.
Pittman, Allen G.; and Wasley, William L., 3,424,785.
Pittman, Allen G.; and Wasley, William L., 3,437,692.
Pittman, Allen G.; and Wasley, William L., 3,441,431.
Pittman, Allen G.; and Wasley, William L., 3,465,045.
Pittman, Allen G.; and Wasley, William L., 3,479,214.
Pittman, Allen G.; and Wasley, William L., 3,480,605.
Pittman, Allen G.; and Wasley, William L., 3,480,664.
Pittman, Allen G.; and Wasley, William L., 3,484,470.

Popper, Karel, 3,423,310.
Port, William S.; and Ostapiak, Daria M., 3,437,642.
Reinhadt, Robert M.; and Bruno, Joseph S., 3,450,485.
Rogovin, Seymour Peter, 3,485,719.
Schuller, Walter H.; and Lawrence, Ray V., 3,463,769.
Schultz, William G., 3,477,856.
Schwartz, Daniel P.; Brewington, Charles R.; and Burgwald, Louis H., 3,450,541.
Serota, Samuel; and Kenney, Harold E., 3,429,902.
Skau, Evald L.; Mod, Robert R.; and Magne, Frank C., 3,420,837.
Skau, Evld L.; Mod, Robert R.; and Magne, Frank C., 3,431,269.
Sloan, William G.; Moore, Harry B.; Cooper, Albert S., Jr.; and Reeves, Wilson A., 3,480,382.
Smiley, Karl L.; Cadmus, Martin C.; and Rogovin, Seymour Peter, 3,427,224.
Smith, Burns A., 3,442,704.
Smith, Burns A., 3,464,856.
Soignet, Donald M.; and McKelvey, John B., 3,478,033.
St. Julian, Grant, 3,463,122.
St.Mard, Hubert H.; Hamalainen, Carl; and Cooper, Albert S., Jr., 3,420,699.
Stanonis, David J.; King, Walter D.; and Esposito, Charles R., 3,475,823.
Tso, Tien C.; and Steffens, George L., 3,438,765.
van Bavel, Cornelius H. M.; and Jackson, Ray D., 3,436,313.
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A., 3,429,650.
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A., 3,466,136.
Weiner, Bernard A., 3,476,670.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., 3,433,575.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., 3,440,002.
Wolff, Ivan A.; and Olds, David W., 3,478,012.
Woodward, Hyrum J., 3,464,732.
Zagoren, Bonnie L.; Otey, Felix H.; and Mehltretter, Charles L., 3,433,752.

Air Force: *See—*
Alexander, William E.; and Boggs, Bernard C., 3,465,315.
Ames, Stephen Alexander, 3,437,957.
Amsterdam, Michael F.; Shaikh, Mohammed S.; and Tarneja, Krishan S., 3,438,120.
Anderson, Donald R.; and Ballinger, Edwin R., 3,434,467.
Barnes, Charles R., 3,472,680.
Blikken, Wendell A.; Cutrona, Louis J.; Ingalls, Arthur L.; Leith, Emmett N.; and Porcello, Leonard J., 3,427,104.
Bradshaw, John L., 3,466,588.
Brenin, Barry L., 3,482,190.
Brogan, Francis A., 3,464,030.
Brogan, Thomas R.; and Powers, William E., Jr., 3,436,918.
Buchanan, Edward R.; and Clark, Jack W., 3,483,047.
Bunn, Willis P.; Milosevich, Charles; and Mosher, Robert E., 3,452,280.
Calhoon, Charles D.; and Cromer, Oscar M., 3,452,352.
Carlson, Ernest R., 3,486,116.
Carpenter, James E.; and Pleuthner, Richard L., 3,434,663.
Clark, Raymond N.; Duris, Milan W.; and Koros, Leslie L., deceased, 3,466,497.
Cone, Peter F., 3,458,370.
Coutant, Robert W., 3,465,017.
Dailey, John L., 3,429,635.
Dawbarn, Ronald; and Haygood, James D., 3,482,860.
Dawson, Edward C., 3,431,405.
Dolan, Russell P., Jr.; Buchanan, Bobby L.; and Roosild, Sven A., 3,431,150.
Dolan, Russell P., Jr.; and Roosild, Sven A., 3,457,632.
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ, 3,481,872.
Dolle, Roland E., Jr.; Harsacky, Frank J.; and Tamborski, Christ, 3,483,129.
Egbert, William D.; and Nixon, Bryan E., 3,425,316.
Elliott, David D.; and Mozer, Forrest S., 3,473,021.
Forgue, Stanley V., 3,424,610.
Freedman, Nathan, 3,480,951.
Freedman, Nathan, 3,480,952.
French, James R., Jr., 3,466,885.
Fruktaw, Nicholas N., 3,451,625.
Futrell, Jean H.; Abramson, Fred P.; and Miller, Carroll D., 3,487,208.
Gebel, Radames K. H., 3,427,450.
Gebel, Radames K. H., 3,463,960.
Gebel, Radames K. H., 3,476,132.
Gebel, Radames K. H., 3,479,455.
Gebel, Radames K. H., 3,483,320.
Gillett, Glenn D., 3,451,609.
Giltinan, Thomas L., 3,452,208.
Gray, Frank O.; and Pett, John F., 3,458,789.
Gutleber, Frank S.; Levine, Elihu; Bogert, Warren D.; Silverstein, Samuel; and Altman, Harry, 3,483,549.
Haase, Kurt H., 3,431,407.
Haase, Kurt H., 3,479,618.
Halbach, Carl R., 3,459,040.
Hale, Murray Everett; and Wright, Robert David, 3,431,452.
Hamby, Drannan, 3,437,524.
Harris, Jay Howard, 3,453,632.
Heller, Ralph M.; and Bowen, James R., 3,479,643.
Hellund, Emil J., 3,451,910.
Hellund, Emil J., 3,451,919.
Hersh, Harold R., 3,429,838.
Hill, Earl E., Jr., 3,460,138.
Hill, Jacque A. F.; and Draper, James S., 3,432,208.
Hobbs, Charles F., 3,453,593.
Holland, Dewey G.; and Tamborski, Christ, 3,440,277.
Hough, Ralph, 3,462,340.
Hough, Ralph L.; and Schwartz, Robert T., 3,433,725.
Hough, Ralph L., 3,437,511.
Hough, Ralph L., 3,451,840.
Howell, Wallace R., 3,485,557.
Huber, Franz J. A., 3,478,820.
Hunt, Graham R., 3,487,215.
Hunt, Mahlon S.; Tavenner, Michael S.; and Wirtanen, Theodore E., 3,459,952.
Ingalls, Arthur L., 3,427,105.
Johnson, Elmer G., 3,436,960.
Juneau, Paul W., Jr., 3,433,769.
Kamps, Henry E., 3,459,049.
Kedson, Leonard P.; and Biagi, Ferando, 3,452,218.
Kennedy, John K.; and Moates, Guy H., 3,453,370.
Kirpich, Aaron, 3,465,594.
Kissell, Kenneth E., 3,464,116.
Kosonocky, Walter F., 3,430,160.
Kosonocky, Walter F., 3,439,289.
Kummer, Wolfgang H., 3,459,987.
Kummer, Wolfgang H., 3,471,864.
Lai, William, 3,485,169.
Lane, Clyde H., 3,436,817.
Lane, Clyde H., 3,481,854.
Langley, Robert A., 3,487,207.
Larson, Ralph H., 3,433,080.
Latimer, Kenneth J., 3,454,985.
Lawson, Maurice O., 3,476,959.
Leith, Emmett N., 3,443,861.
Leonard, Donald A., 3,460,053.
Liebel, Bruce W.; Edgington, Howard C.; and Meredith, Philip J., 3,479,585.
Lockenvitz, Arthur; Longwell, Charles R.; and Pietsch, Roy, 3,452,296.
Love, John A., III; and Sizelove, John R., 3,435,236.
Love, John A., III; and Sizelove, John R., 3,452,204.
Mains, David K., 3,430,085.
Manley, Harold J., 3,431,497.
Martina, Eugene F., 3,422,264.
Matthews, Roy B.; and Henderson, Joseph G., 3,452,200.
Mazdiyasni, Khodabakhsh S.; Lynch, Charles; and Smith, Jonathan S., II, 3,432,314.
McFarland, Wilmer H., 3,465,338.
McGraw, Thomas F.; and Frank, Richard R., 3,464,122.
Metzger, Courtney A.; Hearld, Albert B.; McMullen, Bobby G.; and Reynolds, Bobby J., 3,483,091.
Moore, Robert A., 3,439,501.
Moshier, Ross W., 3,424,772.
Mossey, Paul W., 3,464,441.
Mossey, Paul W., 3,475,961.
Nardozza, Vincent J., 3,474,450.
Natwick, John W., 3,427,232.
Nelson, Richard; and McCormick, John E., 3,437,576.
Netusil, William F.; and Proffit, Robert L., 3,436,966.
Neuendorf, Charles A.; and Black, Donald, 3,440,654.
Nishiwaki, Noboru, 3,484,142.
Norfleet, Glenn D., 3,431,777.
Null, Fay E., 3,472,165.
Ojard, Dennis R., 3,472,088.
Ostertag, Werner; and Strnat, Karl J., 3,421,889.
Perini, Harry R.; Stangel, John J.; Timms, Robert J.; and D'Agostino, Jack V., 3,453,636.
Peters, George A.; and Briney, Douglas, 3,454,154.
Petry, Gene A.; and Weingarten, Joseph L., 3,429,536.
Poplawski, Robert, 3,421,299.
Prete, Ralph, 3,439,149.
Procopio, Leo W., Jr., 3,483,561.
Quigley, Richard E., Jr.; and Medisch, George N., 3,471,274.
Quine, John P.; and Younger, Cousby, 3,424,943.
Quintana, Leo J., 3,471,631.
Ragusa, Peter A., 3,465,172.
Rambauske, Werner; and Mestwerdt, Hermann R., 3,460,054.
Raspet, David, 3,437,847.

Real, Mackey J., Jr.; Jeglum, Paul M.; and Bright, Boris E., 3,429,175.
Reynolds, Alex J.; and LoRusso, Rinaldo A., 3,421,268.
Rock, Lee C., 3,421,188.
Roosild, Sven A.; Buchanan, Bobby L.; and Dolan, Russell P., Jr., 3,430,113.
Rosenberg, Harold, 3,422,129.
Rosenberg, Harold, 3,422,130.
Rosenberg, Harold, 3,426,053.
Rosenberg, Harold, 3,432,533.
Ryan, Charles E.; and Considine, Dennis P., 3,452,179.
Ryan, Edward W., 3,464,705.
Schell, William Raymond, 3,458,701.
Schmidt, Donald L., 3,422,057.
Schmidt, Donald L.; and Hawkins, Houston T., 3,485,272.
Schueller, Otto, 3,422,458.
Schueller, Otto, 3,428,960.
Schueller, Otto, 3,428,961.
Schwartz, Herbert S., 3,424,603.
Schwartz, Herbert S., 3,466,219.
Shair, Fredrick H., 3,431,441.
Shepherd, Freeman D., Jr., 3,482,306.
Sieron, Jerry K., 3,438,932.
Sieron, Jerry K., 3,452,126.
Silverman, Bernard A.; Thompson, Brian J.; and Parrent, George B., Jr., 3,451,755.
Simons, John C., 3,465,285.
Smith, Richard G.; and Wentz, John L., 3,482,185.
Smith, Walter W., 3,425,051.
Spaid, William L., 3,479,644.
Spain, Raymond G., 3,424,710.
St. John, Albert E., 3,487,223.
Stahler, Ylo E.; and Stevens, John H., 3,453,629.
Strnat, Karl J.; Hoffer, Gary I.; Ostertag, Werner; and Olson, John C., 3,424,578.
Tamborski, Christ, 3,459,794.
Tamborski, hrist, 3,437,516.
Thomas, Robert Warren; Huebner, Edward J.; and Yerger, Harold, 3,455,067.
Thompson, Richard T., 3,471,855.
Thomson, David W., 3,422,071.
Trammell, James R., 3,465,102.
von Ohain, Hans J. P.; Wattendorf, Frank L.; and Lawson, Maurice O., 3,439,197.
von Ohain, Hans J. P.; and Wattendorf, Frank L., 3,465,180.
Weisberg, Leonard R.; and Fischer, Albrecht G., 3,459,603.
Weiss, Bernard; and Matson, Roland V., 3,451,649.
Whitmore, Henry B.; Lewis, Sidney T.; Ritzinger, Frederick R.; and Harris, Leonard, 3,436,841.
Wible, Richard V., 3,430,013.
Winslow, Donald K.; Shaw, Herbert J.; and Quate, Calvin F., 3,465,177.
Young, Archie R., II; and Ehrlich, Robert, 3,433,817.
Zagone, Peter V.; Hesse, Jack E., Jr.; and Jones, Richard P., 3,439,170.
Zauderer, Bert, 3,430,081.
Zulch, Donald I.; and Taylor, Hugh P., 3,480,960.

Army: *See*—
Aaron, Herbert S.; Owens, Omer O.; and Miller, Jacob I., 3,464,997.
Abelow, Ira; and Wagman, Jack, 3,436,837.
Agrios, John P.; and Freibergs, Elmer, 3,435,382.
Alexander, Max H.; and Merritt, Bernard J., 3,445,146.
Alexander, Nelson E., 3,432,748.
Allan, Barry D., 3,447,323.
Allen, Henry C., 3,440,292.
Altes, Stephen K., 3,482,308.
Anderson, Arthur E., 3,487,259.
Angelos, Mitchell G.; and Fleischmann, Lewis W., 3,482,517.
Apstein, Maurice, 3,447,416.
Arp, Vincent D., 3,486,079.
Artzt, Maurice, 3,465,096.
Autry, Wallace M.; and Chapman, Clifford P., 3,432,297.
Ayers, Orval E.; Huskins, Chester W.; and Carter, Herbert A., 3,432,444.
Ayers, Orval E.; Huskins, Chester W.; and Fant, Bert T., 3,442,081.
Baker, Allister L., 3,442,578.
Baker, John F.; Rodrigo, Harry G.; and Ryan, Joseph A., 3,422,237.
Baker, Ralph F., 3,463,527.
Barnett, Charles W. H., 3,448,437.
Barr, Thomas A., Jr.; and Cason, Charles M., III, 3,478,583.
Barron, Morton A., 3,464,863.
Bassen, Howard; and Jantz, Ronald K., 3,475,755.
Beasley, Neil D.; Whitehurst, Gerald E.; Saletzki, Jacob S.; Lofthouse, Fred R.; and Weber Robert L., 3,452,610.
Beer, Sylvan Z.; and Sandler, Yehuda L., 3,458,360.
Beers, Raymond L., 3,427,973.
Belsterling, Charles A.; and Young, Bruce B., 3,465,135.
Berk, Sigmund, 3,426,142.
Berk, Sigmund, 3,454,480.
Berlin, A Samuel; Little, Vincent C.; Leadore, Toney E.; and Reid, Edwin J., Jr., 3,434,421.
Bird, John R., 3,444,813.
Blume, Alan E., 3,432,690.
Bowles, Ronald E., 3,425,349.
Boxer, Victor, 3,484,661.
Boyden, James H., 3,484,717.
Brandmayr, Ronald J.; and Di Vita, Sam, 3,426,114.
Brandmayr, Ronald J., 3,435,104.
Brandmayr, Ronald J., 3,456,048.
Brandt, Raymond A.; and Dickerson, Loren L., 3,448,387.
Bray, Chester W., 3,460,051.
Broderick, David C., 3,443,248.
Brothers, Jack, 3,434,423.
Brothers, Jack, 3,483,821.
Brown, Irving, 3,454,943.
Brown, Warren G.; and Lott, Roy E., Jr., 3,443,246.
Brueckmann, Helmut, 3,435,457.
Brueckmann, Helmut, 3,482,370.
Brunton, Robert H., 3,448,414.
Buell, Bernard J.; and Moore, Robert L., 3,444,779.
Bullard, Richard W., 3,464,657.
Bullard, Richard W., 3,475,614.
Burke, John F.; Scudder, Kenneth R.; and Dunn, John L., 3,454,023.
Burmeister, Harvey G., 3,443,108.
Byers, John R., 3,430,490.
Cahill, Richard H.; and Gehlhaus, Paul H., 3,445,304.
Camp, Paul R., 3,452,549.
Campagnuolo, Carl J., 3,426,783.
Campagnuolo, Carl J., 3,430,895.
Campagnuolo, Carl J.; and Sieracki, Leonard M., 3,447,553.
Campanella, Matthew J., 3,453,447.
Campi, Anthony V.; Chapman, Robert E.; and Gray, Bruce H., 3,451,044.
Canavan, John J.; Gawrylowicz, Henry; Buckley, William J., Jr.; and Johns, William, 3,430,863.
Carlon, Hugh R., 3,450,864.
Carr, Frank B.; Carter, Theodore; Raeburn, Robert A.; and De Chistino, Albert J., 3,455,042.
Cason, Charles M., III, 3,487,466.
Cassidy, Patrick J.; and Quammen, Milton L., 3,431,043.
Castelli, Joseph N., 3,422,286.
Castelli, Joseph N., 3,471,715.
Castelli, Joseph N., 3,479,609.
Chaille, James L.; and Walker, Robert W., 3,450,583.
Chin, Ball, 3,432,756.
Chin, Henry; and Salvato, Joseph, 3,465,173.
Chin, Henry; and Cadigan, John J., III, 3,486,126.
Christians, John A., 3,425,069.
Christians, John A.; and Robinson, Frank S., 3,442,245.
Cialella, Carmen M., 3,454,770.
Ciccone, Thomas Q.; and Kowalick, James F., 3,434,420.
Clements, Richard P., 3,485,137.
Connolly, Patrick J., 3,434,941.
Cook, Bill D., 3,465,155.
Cooke, Edward A.; and Carter, William H., 3,450,046.
Coordes, John E.; and Fuller, Samuel H., Jr., 3,444,945.
Cox, Donald C., 3,482,246.
Crabtree, Royale R.; Beeker, Charles W.; and Mead, Dennis E, 3,448,654.
Cramer, William F., Jr., 3,468,125.
Crane, Everett D.; and Werbel, Burton, 3,430,569.
Crocker, Bryant W.; and Schmid, Frederick, 3,433,282.
Crow, Thomas G., 3,453,446.
Curchack, Herbert D., 3,444,733.
Custard, George H., 3,421,439.
Daglian, John S.; Grace, John W.; and Clasen, Carl P., 3,427,570.
Dale, John R.; Menzel, Harry R.; McCandless, Joseph M.; and Goss, Garnet, 3,449,950.
Dauber, Harry, 3,450,479.
David, Charles E.; and O'Mary, Hollis W., 3,431,501.
Dawson, Thomas P.; and Williamson, Charles E., 3,450,801.
De Leonardis, Alfonso J., 3,483,822.
De Mare, Baltzar Leo, 3,442,132.
Dean, Walter B.; and Germer, John A., 3,421,365.
Dews, Jule N.; and Schmersahl, George W., 3,426,444.
Dixon, Samuel, Jr., 3,426,299.
Dixon, Samuel, Jr., 3,465,266.
Donnelly, Daniel J., 3,459,098.
Drees, Joseph M., 3,484,645.
Dumas, Raymond E.; Williams, Harry L., Jr.; and Wood, Donald B., 3,450,569.
Ebright, Robert L.; and Decker, Lawrence M., 3,457,621.
Ehrlich, John J.; Hutcheson, Guilford J., Jr.; Rust, Charles M.; Roberts, Thomas G.; and Cason, Charles M., III, 3,464,267.
Ely, Richard E., 3,421,366.
Engelhardt, Friedrich J. O.; and Benderly, Asaf A., 3,442,828.

Engelhardt, Friedrich J. O., 3,485,660.
Evans, Edgar J., 3,478,604.
F'Geppert, Erwin; and Lugoski, Arnold N., 3,464,231.
Farney, George K., 3,450,932.
Farney, George K., 3,450,938.
Femia, Joseph E., 3,466,081.
Ferrell, Wesley, 3,442,212.
Ferris, DeLacy F., 3,431,731.
Fetterman, Donald L., 3,471,337.
Fierston, Stanley A.; and Towle, William C., 3,428,905.
Firestone, Stanley; and McCarthy, John, 3,450,097.
Fishbein, William; and Rittenbach, Otto E., 3,465,336.
Flester, Eugene G., Jr.; and Katz, Silas, 3,465,781.
Flynn, Paul D.; and Roll, Arthur A., 3,464,771.
Forman, Thomas H.; and Prohaska, Edward S., 3,439,615.
Fowler, Galvin W., 3,431,852.
Frank, Milton A., Sr., 3,454,270.
Freedman, Harold T.; and Schlussler, Henry, 3,431,500.
Frost, Richard H.; Criley, Ronald L.; Laliberte, George A.; and Maschi, Angelo P., 3,425,739.
Fuehrer, Reece R.; and Polak, James C., 3,478,852.
Fuller, William F., 3,447,326.
Furlani, John J., 3,421,443.
Fusee, Rex A., 3,444,780.
Fyfe, Clayton, 3,425,351.
Gallay, Harry M.; Mainland, Albert F.; Teumin, Mota; and Yarina, William, 3,464,274.
Gardner, Donald S.; and Wadsworth, Clarence K., 3,463,643.
Garver, Robert V., 3,479,615.
Gerlach, Horst W. A., 3,445,778.
Gerwin, Harry L., 3,485,106.
Gilligan, William H.; and Oda, Takahiko A., 3,474,145.
Glendinning, William B.; and Marshall, Sidney, 3,422,442.
Glowacki, John J., 3,486,452.
Goldberg, Ira I; and Fisher, George I., 3,447,372.
Goldstein, David A.; Nystrom, Roy; Borchert, Alfred; and Eneman, Melvin, 3,485,172.
Goodwin, Richard R., 3,434,429.
Gorski, Alexander A., 3,428,902.
Grandy, Andrew J.; Spinelli, Angelo S.; De Mesquita, Seymour; and Batezell, Alfred P., 3,465,463.
Grimme, Brooks H.; and Oddo, Joseph A., 3,445,678.
Grimme, Brooks H.; and McCarley, Herbert R., 3,459,053.
Guenter, Richard G., 3,464,088.
Guilbault, George G.; and Kramer, David N., 3,432,269.
Hadden, David Rodney, Jr., 3,428,957.
Hadden, David Rodney, Jr., 3,484,759.
Hahon, Nicholas, 3,445,340.
Hambleton, George E., 3,428,911.
Hamill, Ronald V.; and Murphy, Walter E., 3,441,932.
Hare, George; and Kowalick, James F., 3,483,791.
Hartman, Richard L., 3,458,715.
Hartman, Thomas L., Jr., 3,427,896.
Hatkin, Leonard, 3,445,853.
Hawthorne, Herman F., 3,437,039.
Hazzard, Frank C., 3,479,616.
Heinemann, Robert W.; and Greene, Edward G., 3,470,819.
Herman, Neil H.; and Vincent, Donat A.A., 3,475,678.
Herr, Edward R.; and Sumrall, George E., 3,464,531.
Hieslmair, Hans, 3,458,748.
Higgins, James H., 3,452,445.
Hirschberg, Kenneth A.; and Boren, John E., 3,445,807.
Hirschberg, Kenneth A., 3,480,942.
Hirshfield, Edward; Mizuno, Edward; and Trouard, Robert L., 3,431,506.
Hoess, Erwin, 3,431,221.
Holberg, Dieter E., 3,487,462.
Holmes, Allen B., 3,474,807.
Holmes, Allen B., 3,474,966.
Hwang, Ying-Chen, 3,479,535.
Hyde, Geoffrey; and Watson, Benjamin W., 3,460,070.
Irish, Edwin F., 3,423,834.
James, John C.; Wineman, Robert J.; and Gollis, Morton H., 3,462,429.
Jeter, Thomas R.; and Baldeschwieler, John D., 3,465,148.
Johnson, Fred P., 3,445,808.
Johnston, Stephen L., 3,487,290.
Jones, Howard S., Jr., 3,482,248.
Kaifesh, Michael W., 3,475,060.
Kalen, Sylvester E., 3,483,041.
Kalmus, Henry P., 3,432,855.
Kasemir, Heinz W., 3,458,805.
Katsanis, David J., 3,485,461.
Katz, Silas, 3,474,959.
Kaufmann, William F., Jr., 3,431,815.
Kelsall, Dennis, 3,443,110.
Kesolits, Thomas J., 3,434,059.
King, George E. S., 3,462,544.
Kinzelman, Gerald W., 3,454,926.
Kirkendall, Richard D.; Deas, Robert W.; McCall, Nelson H.; and Gay, Herman P., 3,453,882.
Kirshner, Joseph M.; and Campagnuolo, Carl J., 3,452,771.
Klein, Theodore J., 3,426,281.
Klinger, Richard C.; and Kollodge, Marvin A., 3,425,266.
Koblin, Abraham; Woolfridge, Alfred L.; and Adams, John Q., 3,475,965.
Koehler, Dale R.; and Grissom, John T., 3,479,507.
Korolick, Samuel R.; Barron, Edward R.; James, Peter; and Carlucci, Michael P., 3,452,362.
Krause, Kenneth W., 3,448,388.
Kwik, John H., Jr., 3,466,027.
La Rocque, Armand P.; and McNeil, Gordon, 3,426,253.
Lamber, Clarence F.; Rodzen, Richard A.; and Barron, Edward R., 3,458,863.
Lightbowne, William M., 3,430,248.
Lingle, John T., 3,487,335.
Liston, Ronald A., 3,459,454.
Litz, Charles J., Jr.; and Pitney, Lennord L., 3,459,099.
Lizza, Albert J., 3,421,242.
Loesch, Buchanan, 3,430,240.
Loesch, Buchanan, 3,430,241.
Lohninger, Wilhelm J., 3,434,424.
Lohrmann, Dieter R., 3,422,383.
Lohrmann, Dieter R., 3,486,128.
Loughead, Aaron G., 3,445,761.
Luhowy, Gabriel J.; and Moehlmann, Richard H., 3,465,168.
Luhowy, Gabriel J., 3,487,311.
Lyons, Charles E.; McDaniel, Donald M.; and Wade, Jack R., Jr., 3,465,871.
Maass, Joachim A., 3,443,036.
MacDonald, Hugh D., Jr.; DeStefano, Leonard A.; and DeLeo, James M., 3,421,720.
MacDonald, Hugh D., Jr.; and Bagwell, Richard H., 3,447,767.
Mackie, William L., 3,470,787.
Maguire, Hugh T., 3,447,153.
Malcolm, William W.; and Moore, Richard L., 3,483,613.
Mankowich, Abraham, 3,462,369.
Mankowich, Abraham, 3,484,379.
Marasco, Paul M.; and Hollis, Walter W., 3,459,478.
Mardarello, Alfred F.; and Berman, Allen, 3,421,441.
Mardarello, Alfred F.; and Becker, Ralph J., 3,457,862.
Martens, Charles H., 3,464,208.
Martens, Charles H., 3,482,437.
Masonson, Martin, 3,475,688.
Mattern, John, 3,479,601.
Matthaei, George L., 3,428,918.
Matthaei, George L., 3,428,922.
McAfee, Charles F., 3,471,756.
McCoy, Robert G.; and Port, Robert J., 3,422,292.
McGill, Robert; Talarovich, Thomas J.; and Stowell, Finch, 3,485,347.
McLean, William M.; and Seybolt, Kendall, 3,465,252.
Meek, James M.; Lokerson, David T.; and Briggs, Gary A., 3,465,251.
Megson, Frederic H.; and Beachem, Michael T., 3,464,847.
Mertwoy, Helen; and Gisser, Henry, 3,426,076.
Mette, Herbert L., 3,435,259.
Mette, Herbert L., 3,435,379.
Meyer, Edwin F.; and Wagner, Robert E., Jr., 3,478,575.
Middleton, Ralph E., 3,469,501.
Milanowski, Floyd J., 3,453,961.
Miller, Barry E.; and Foster, John E., 3,442,474.
Miller, Harold D., 3,435,274.
Miller, James R., III, 3,464,270.
Miller, Leon; and Norton, Charles W., Jr., 3,451,004.
Miller, Walter E., Jr.; and Duke, Jimmy R., 3,483,370.
Moeller, John D.; and Hartwig, Robert L., 3,474,707.
Mon, George; and Woodward, Kenneth E., 3,484,211.
Mooney, David H., 3,448,452.
Moore, James D.; and Paluska, Roy T., 3,465,734.
Moorhead, John G., 3,443,225.
Morgan, Harvey G., 3,485,173.
Morrow, Warren P., 3,464,266.
Mueller, Johannes, 3,454,819.
Mueller, Johannes, 3,454,820.
Muller, James H., 3,442,173.
Munger, John R., 3,457,727.
Murphy, Milford R., 3,448,255.
Nerwin, Henry Norman, Jr.; Leadbeter, Willard S.; and Hilten, John S., 3,445,289.
Norris, Richard J., 3,464,898.
O'Brien, Samuel J.; Beachem, Michael T.; and Megson, Frederic H., 3,482,927.
O'Donnell, Richard V., 3,431,496.
Orrell, Irving F., Jr., 3,422,282.
Orrell, Irving F., Jr., 3,453,451.
Osborne, Fred H.; and Hull, Charles J., 3,421,941.
Packard, Charles F., 3,483,794.
Padgett, Edward D.; Hendrickson, Arthur H.; and Anagnost, Christ W., 3,450,895.
Panagoulias, Panagiotis L., 3,479,153.

Panagoulias, Panagiotis L., 3,484,202.
Panagoulias, Panagiotis L., 3,486,854.
Panagoulias, Panagiotis L., 3,486,855.
Panagoulias, Panagiotis L., 3,486,856.
Panagoulias, Panagiotis L., 3,486,857.
Panagoulias, Panagiotis L., 3,486,858.
Pardes, Herman I., 3,475,608.
Pardes, Herman I.; and Mount, John W., 3,483,556.
Pardue, Don R., 3,465,178.
Parrish, Frederick W., 3,431,253.
Pascoe, Kenneth H.; and Salter, Calvin R., 3,435,349.
Pearlstein, Fred, 3,485,597.
Pearlstein, Fred; Wick, Reyburn W.; and Gallaccio, Anthony, 3,485,682.
Pearson, Earl T., 3,471,236.
Peck, Donald W., 3,465,259.
Perkins, Beauregard, Jr., 3,449,943.
Perry, John, Jr., 3,464,862.
Petrich, Louis G., 3,434,146.
Pfeiffer, Albert; Cogswell, Richard V.; Lynch, Charles W.; and Kunert, Herbert B., 3,478,926.
Picard, Jean P.; and Voigt, H. William, Jr., 3,434,895.
Pierce, Everette M., 3,433,158.
Piskorski, John; and Myers, Everett M., 3,450,047.
Pitzalis, Octavius, Jr., 3,443,241.
Potash, Norman, 3,486,730.
Pruett, William T.; and Crownover, William S., 3,474,665.
Pullen, Keats A., Jr., 3,471,687.
Quinlan, Joseph B., 3,485,901.
Ralston, Anthony, 3,460,137.
Reed, Frederick P., 3,421,244.
Reggia, Frank, 3,435,250.
Reggia, Frank, 3,435,383.
Remaly, Robert F.; Shefcik, William P.; and Nelson, Malcolm B., 3,474,702.
Rentz, John C., 3,464,864.
Richard, Eugene D., 3,431,528.
Rimsha, Victor E., 3,454,907.
Rittenbach, Otto E., 3,422,430.
Rittenbach, Otto E., 3,460,139.
Rittenbach, Otto E., 3,465,253.
Roberts, Thomas G.; and Barr, Thomas A., Jr.,, 3,464,223.
Rocha, John G., 3,434,383.
Rodek, Victor, 3,431,366.
Rofe, Duane H., 3,459,444.
Rofe, Duane H.; Rambie, Edward J.; and McCartney, John M., 3,482,808.
Rogge, Bernhard, 3,474,932.
Rosenfeld, Myer, 3,431,209.
Russell, Frank L.; and Lyons, Thomas P., Jr., 3,464,168.
Saletzki, Jacob S.; and Keys, Marvin C., 3,474,733.
Salisbury, Lloyd L., Jr., 3,423,765.
Sanderson, George H., 3,480,956.
Sass, Samuel; Witten, Benjamin; and Davis, Paul, 3,441,955.
Satriana, Daniel R., 3,445,306.
Sayles, David C., 3,447,981.
Scanlon, John J., Jr.; and Quinlan, Joseph B., 3,459,101.
Scharmann, Lawrence E., 3,487,253.
Schmidt, Fred J., 3,432,714.
Schreiner, Charles W., Jr., 3,464,649.
Scidmore, Wright H.; and Shean, James W., 3,443,105.
Scidmore, Wright H.; and Weitzel, Ezra, 3,454,322.
Scidmore, Wright H.; and Wolfe, Robert J., 3,464,764.
Scott, Richard D., 3,479,661.
Seals, William O.; Dunigan, Thomas E.; and Picard, Jean P., 3,431,153.
Seamands, Robert E.; and Williams, Jimmy H., 3,430,541.
Self, Dolty R., 3,421,671.
Shechan, William C.; and Thomas, George R., 3,423,417.
Shira, Glenn L., 3,442,215.
Shreve, James S., 3,480,953.
Sieracki, Leonard M.; Campagnuolo, Carl J.; and Blodgett, Francis E., 3,444,876.
Sieracki, Leonard M., 3,452,768.
Sinclair, Alex H.; and Otto, Robert J., 3,459,439.
Skinner, Frank R., II., 3,464,354.
Smith, John H., 3,449,707.
Smoot, Perry R., 3,457,658.
Sobieski, James F.; and Zerner, Michael C., 3,464,960.
Spanski, Paul L., 3,465,576.
Spurk, Joseph H., 3,421,781.
Stern, Frank, 3,465,159.
Steverding, Bernard, 3,428,254.
Stinchfield, James Maxwell; and Morris, Hayden, 3,466,191.
Stone, Robert L., 3,425,769.
Stott, Albert M., 3,449,165.
Stott, Albert M., 3,457,826.
Stowell, Marcel A., 3,421,361.
Swartz, Elmer L., 3,442,279.
Swartz, Elmer L., 3,474,805.
Swing, Richard E.; and Marsten, Joseph A., 3,484,154.
Swisher, Joe A.; and Coates, Arthur D., 3,475,607.
Tabisz, Sylvester C., 3,426,347.
Tancredi, John J.; and Zotter, Bruno W., 3,433,992.
Tarbox, James L.; and Lachapelle, David G., 3,452,690.
Tarbox, James Leon, 3,464,375.
Taylor, John W., Jr.; Gobl, Gerhard E.; and Hiscox, Harold C., 3,432,777.
Thierry, Robert J., 3,434,381.
Thomas, George W., 3,459,893.
Thor, Dexter J., Jr., 3,426,283.
Toman, John W.; and Iadarola, Michael L., 3,465,909.
Toy, Madeline S.; Cannon, William A.; English, William David; and Berger, Carl, 3,427,207.
Trask, Roland Pierce, II; Katz, Silas; and Walker, M. Lucius, Jr., 3,478,764.
Venetos, Matthew A.; and O'Sullivan, Denis J., Jr., 3,483,759.
Vincent, Donat A. A.; and Morrison, Robert A., 3,422,388.
Vogt, Gottfried F., 3,435,454.
Voigt, H. William, Jr., 3,447,980.
Wadsworth, Clarence K., 3,484,253.
Wagner, Donald L., 3,427,922.
Warden, Donald E., 3,450,472.
Warren, Raymond W.; Campagnuolo, Carl J.; and Fine, Jonathan E., 3,442,124.
Warren, Raymond W., 3,442,281.
Warren, Raymond W., 3,444,814.
Warren, Raymond W., 3,452,707.
Wasserman, Saul; Salzman, Robert; and O'Keefe, Walter C., 3,464,356.
Wayboer, Arthur, 3,428,740.
Weismann, Walter T., 3,448,833.
Wessells, Russell I.; and Dawkins, Bluford A., 3,427,975.
Wessells, Russell I., 3,485,171.
West, Charles Henry, 3,463,930.
Whelan, Charles N., 3,425,352.
White, Harold V.; and McCarley, Herbert R., 3,422,326.
White, Harry N.; and Kirshner, Joseph M., 3,457,936.
White,Richard W., 3,447,465.
Wiese, Harold H., 3,427,741.
Wilcox, Roy C.; and Kell, Furman D., 3,428,524.
Williams, David; and Lucey, George K., Jr., 3,458,673.
Winer, Richard, 3,456,042.
Wise, Charles R., 3,432,853.
Womble, Monroe E., Jr., 3,426,217.
Wright, James B., 3,431,476.
Wright, James B.; and Honeycutt, Jay F., 3,453,496.
Zimmerman, Mark S., 3,428,752.
Zotter, Bruno W., 3,428,848.

Army and/or Federal Aviation Administration: *See*—
Dravnieks, Andrew; and Salkowski, Martin J., 3,430,482.
Updegraff, Billy P., 3,428,030.

Atomic Energy Commission: *See*—
Aaland, Kristian; and Zucker, Oved S., 3,459,960.
Aaland, Kristian, 3,487,265.
Abegg, Moroni Taylor; Hull, Daniel M.; and Leslie, William B., 3,453,558.
Acree, Elick H.; and Case, Forrest N., 3,426,205.
Allen, Phillip E., 3,423,710.
Anderson, Jesse I.; and Olson, Dale G., 3,431,413.
Anderson, Malkolm V., 3,432,379.
Anderson, Thomas T., 3,482,144.
Anderson, Thure; and Lorbeer, Ernest H., 3,421,819.
Anger, Hal O., 3,432,660.
Ardary, Zane L., 3,465,972.
Armijo, Joseph S., 3,486,885.
Arrowood, Joseph L.; Groppe, Wayne A.; and Lee, William W., Jr., 3,453,050.
Asbury, Joseph J., 3,462,797.
Atz, Robert W., 3,431,860.
Babcock, Gordon L., 3,484,867.
Bachand, Gordon R., 3,476,919.
Baldwin, Richard R., 3,436,153.
Basdekas, Demetrios L., 3,436,538.
Basiulis, Algerd, 3,428,773.
Bate, Lamont C.; Dyer, Frank F.; and Thacker, Louis H., 3,431,414.
Baum, Gary Allen; Beno, Richard L.; and Van Vorous, Theodore, 3,428,546.
Baum, John W., 3,457,413.
Bayly, John G., 3,470,372.
Beatty, Ronald L.; and Kiplinger, Dale V., 3,471,314.
Beck, Clarence J.; Birnby, Martin R.; and Lozier, Paul G., 3,429,798.
Becker, Klaus H., 3,484,610.
Bell, Persa R.; and Harris, Cecil C., 3,441,351.
Beth, Richard A., 3,461,410.
Beth, Richard A., 3,466,499.
Beutler, Hans; and Payne, Marshall C., 3,472,677.
Biggerstaff, John A.; and Nutt, Ronald, 3,464,013.
Blalock, Theron V., 3,457,516.

Blumenfeld, Henry A.; Pandolfi, Francis P.; and Sun, Chih-Ree, 3,430,043.
Bodner, Stephen E., 3,485,716.
Boettcher, Gordon E., 3,428,894.
Borkowski, Casimer J.; and Kopp, Manfred K., 3,483,377.
Bowman, Harry R.; Thompson, Stanley G.; Hyde, Earl K.; and Jared, Richard C., 3,433,954.
Bowman, Richard A.; and Pilloton, Roger L., 3,422,167.
Brechna, Habib, 3,427,189.
Brinkerhoff, Joris M., 3,443,217.
Britton, Richard B.; Robins, Kenneth E.; and Sampson, William B., 3,432,783.
Brook, Richard J.; and Kingery, William D., 3,475,309.
Byron, William J., 3,474,671.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Goossens, Walter; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf, 3,429,669.
Camozzo, Giovanni; Coenen, Francois; Francesconi, Aldo; Pierini, Giancarlo; Schmets, Jean J.; and Stynen, Adolf, 3,429,670.
Carter, James G.; and Christophorou, Loukas G., 3,444,089.
Case, Forrest N., 3,429,655.
Case, Forrest N.; Mackey, Thomas S.; and McFarland, Clyde E., 3,431,328.
Cassel, Richard L., 3,421,071.
Chase, Robert L.; and Radeka, Veljko, 3,480,870.
Cheeseman, Philip R., 3,484,770.
Chilenskas, Albert A., 3,436,193.
Chilenskas, Albert A.; and Kincinas, John E., 3,469,936.
Clawson, Lawrence G.; and Ziering, Marvin B., 3,430,483.
Clay, Haile S., 3,485,177.
Coburn, Michael D., 3,483,211.
Cochran, John T.; and Collins, Gordon D., 3,483,980.
Cohn, Charles E., 3,424,653.
Cornish, Cornell D., 3,433,705.
Crandall, Gary J., 3,463,703.
Creek, Kenneth O.; and Leiby, David W., 3,475,825.
Culpepper, Harold D.; and Gentry, William O., 3,474,022.
de Parry, Theodore, 3,453,574.
Dean, Richard A.; and McCabe, Earl A., Jr., 3,432,390.
Deinken, Herman P.; Hill, Jack; Bell, Donald L.; and Zastrow, John A., 3,485,360.
Dexter, Warren L., 3,470,503.
Dingwall, Andrew G. F., 3,449,172.
Distenfeld, Carl H., 3,420,999.
Downing, Willis Gess, Jr., 3,487,205.
Erickson, George F., 3,464,889.
Estes, Chester L., 3,478,189.
Faler, Kenneth T., 3,471,414.
Feibush, Arthur M., 3,420,761.
Fick, Oliver A., 3,432,774.
Finch, Lester M., 3,466,227.
Finch, Lester M.; and Anthony, Andy J., 3,468,757.
Finger, Milton; James, Edward, Jr.; and Archibald, Paul B., 3,480,490.
Fitzgerald, Curtis L.; Godbee, Herschel W.; and McCorkle, Kenneth H., Jr., 3,463,738.
Fortescue, Peter, 3,432,388.
Fox, Charles W.; and Slaughter, Gerald M., 3,427,155.
Franco-Ferreira, Edgard A., 3,454,468.
Frankeny, Julius L.; and Voiles, Kenneth E., 3,451,467.
Frantz, Charles E.; and Vlacil, Frank F., 3,446,067.
Fuhrman, Nathan; Gordon, Emanuel; and Holden, Robert B., 3,429,699.
Gagnon, William L.; Scalise, Dominic Theodore; and Smith, Bob H., 3,433,977.
Garwin, Edward L., 3,479,555.
Gayle, Tom M., 3,460,909.
Geist, Jean Jacques, 3,486,977.
Germer, John H., 3,459,636.
Gibson, Neil J.; and Graham, Howard M., 3,487,342.
Gibson, Ronald F.; Nunley, Clifford E.; and Waters, Dean A., 3,430,849.
Giordano, Salvatore T., 3,466,554.
Godfrey, Wesley L., 3,424,549.
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C., 3,459,925.
Goosey, Malcolm H.; and Brady, Edward R., 3,469,254.
Gregory, Thomas G., 3,423,500.
Grosvenor, David E.; and Miller, William E., 3,483,913.
Grover, George M.; Busse, Claus A.; and Caron, Rene Jean, 3,441,752.
Grover, George M.; Busse, Claus A.; and Bohdansky, Josef, 3,451,266.
Gurinsky, David H.; Powers, Richard M.; and Susskind, Herbert, 3,429,774.
Hackman, James R., 3,470,902.
Hahn, Harald; and Halama, Henry J., 3,434,061.
Hahn, Harald; and Halama, Henry J., 3,452,191.
Hall, William C.; Barker, Theodore R., II; and Hassell, Leigh D., Jr., 3,448,859.
Hammel, Jay E.; Baker, Don A.; Burkhardt, Louis C.; DiMarco, Joseph N.; Henson, Robert M.; Karr, Hugh J.; and Marshall, John, 3,441,775.
Handwerk, Joseph Henry; and White, David E., 3,425,115.
Hanlin, Harry H., 3,442,217.
Harbaugh, Willis E., 3,426,221.
Hart, Edwin J.; and Fielden, Edward M., 3,429,667.
Hartin, William J., 3,427,452.
Hartzel, Lawrence W., 3,476,526.
Hawke, Ronald S., 3,471,238.
Head, Earl L., 3,446,574.
Henning, Carl D., 3,465,431.
Henry, John J., 3,449,599.
Hernqvist, Karl G.; and Levine, Jules D., 3,452,224.
Hoard, Charles T., 3,446,522.
Hogan, John Cotter, 3,474,007.
Hornbeck, Robert F., 3,478,886.
Horrocks, Donald L.; and Wirth, Hermann O., 3,478,208.
Huddleston, Roy L., 3,484,806.
Husa, Ronald G., 3,432,682.
Huth, Gerald C.; and McKinney, Russell A., 3,449,177.
Hutter, Ernest; and Hooker, Harris H., 3,471,826.
Jackson, Charles N., Jr.; and Spear, Ward G., 3,461,286.
Jackson, William L., 3,432,240.
Jamini, Marco A., 3,461,005.
Johnson, James S.; and Kraus, Kurt A., 3,431,201.
Johnson, James S.; Kraus, Kurt A.; Marcinkowsky, Arthur E.; Phillips, Harold O.; and Shor, Arthur J., 3,449,245.
Johnson, Kenneth W.; Klippert, Thomas Edward; and Ramler, Warren J., 3,457,517.
Jones, Egbert M.; and Thomas, Richard J., 3,421,015.
Jones, Robert H., 3,430,230.
Kalustian, Sarkis V., 3,460,377.
Katsoyannis, Panayotis; and Tometsko, Andrew M., 3,420,810.
Katz, Sidney; and Cathers, George I., 3,451,790.
Keepin, G. Robert, 3,456,113.
Kermicle, Harold A., 3,432,764.
Kerns, Quentin A., 3,484,689.
Kevey, Andrew, 3,435,219.
Kimble, Harry E., 3,432,665.
Klepfer, Harold H., 3,431,104.
Koerner, Warren G., 3,421,714.
Krupka, Milton C.; Giorgi, Angelo L.; Krikorian, Nerses H.; and Szklarz, Eugene G., 3,482,940.
Land, Cecil E.; and Schueler, Donald G., 3,432,773.
Land, Cecil E.; and Haertling, Gene H., 3,434,122.
Lee, DeWayne A., 3,479,147.
Lee, John V.; and Love, Leon O., 3,432,709.
Levan, Roger W., 3,482,003.
Levy, Samuel C., 3,425,872.
Lloyd, Milton H.; and Haire, Richard G., 3,461,076.
Lonadier, Frank D.; Brown, Willard B.; Fushimi, Fred C.; and Silver, Gary L., 3,438,749.
Long, Jack L., 3,460,917.
Lorbeer, Ernest H., 3,479,745.
Lyons, Mark F.; and Weidenbaum, Bernhardt, 3,446,703.
Ma, Peter Pu-Yuan, 3,453,423.
Mancebo, Lloyd, 3,454,814.
Martin, William R.; and Weir, James R., 3,440,037.
Matthews, Robert P.; Simmons, Gustavus J.; and Wymer, Fred J., 3,480,921.
Mc Guire, Joseph C.; and Wohlberg, Cornel, 3,421,953.
Mc Kee, Donald A., 3,434,053.
Mc Vey, Charles I.; Mc Connaughey, Newton; Gibson, Harlan D.; and Smith, Jack V., 3,449,175.
McCall, Gene H., 3,485,159.
McDonald Robert E.; Reimann, George A.; and Patterson, Fred H., 3,429,158.
McKinney, John L.; and Taylor, William L., 3,421,334.
McNeese, Leonard E.; Watson, Jack S.; and Whatley, Marvin E., 3,472,633.
Medal, Einar, 3,455,506.
Miller, Harold W.; and Kerns, Quentin A., 3,457,418.
Milleron, Norman, 3,454,214.
Montag, Mordechai, 3,421,543.
Moulton, Charles L., 3,461,305.
Muller, Albert C., 3,453,430.
Mullins, Lawrence J.; and Leary, Joseph A., 3,420,639.
Murray, John G.; Simon, Ellis D.; Bronner, George; and Edmonds, George D., 3,475,620.
Noe, John B., 3,475,698.
Norgren, Duane U., 3,480,366.
Oak, Cecil R., 3,448,872.
Odian, Allen C.; Bulos, Fatin; Villa, Francesco; and Yount, David E., 3,445,661.
Onstott, Edward I., 3,441,488.
Oster, Gerald, 3,461,288.

Panofsky, Wolfgang K. H.; and Marshall, William F., 3,470,460.
Parker, George W., 3,473,029.
Parker, Robert, 3,433,051.
Pfeiler, William A.; and Valentine, Charles K., 3,419,935.
Pierce, William B., 3,465,587.
Piper, Robert J.; Craig, James A.; and Dutton, Richard A., 3,429,185.
Pitt, William A.; and Lemon, Ralph B., 3,454,466.
Pollock, Bernard D., 3,475,340.
Porter, John A., 3,420,640.
Postma, Arlin K., 3,482,692.
Purcell, John R.; and Brooks, John M., 3,428,891.
Ramsey, William J.; Jepson, James O.; and Wood, David H., 3,442,642.
Ravenhall, Dysart A.; and Schwender, George, 3,458,706.
Renken, Claus J., 3,443,212.
Rhodes, Donald W.; and Wilding, Malcolm W., 3,463,635.
Richards, Powell; and Baranosky, James, 3,466,361.
Riha, James G.; Trevorrow, La Verne E.; and Steindler, Martin J., 3,458,291.
Ripley, Charles C., 3,438,856.
Ripley, Charles C., 3,479,250.
Ripley, Charles c., 3,486,975.
Ritter, Gerald L.; and Bray, Lane A., 3,463,619.
Roberts, Morris W.; and McLain, Milton E., Jr., 3,426,967.
Robison, James Berkeley, 3,432,664.
Romanowski, Thomas A.; and Rush, Charles J., 3,447,032.
Russell, James T., 3,429,184.
Salgado, Peter G., 3,441,451.
Salter, Forrest O., 3,461,237.
Salyer, Ival O.; and Glasgow, David Gerald, 3,442,745.
Salyer, Ival O.; and Glasgow, David Gerald, 3,481,814.
Sampson, William B.; Britton, Richard B.; Kruger, P. Gerald; and Beth, Richard A., 3,423,706.
Sanders, Merwyn, 3,422,681.
Sandoval, Charles A., 3,421,125.
Schlies, Adolph P., 3,466,445.
Schmidt, Frederick A.; Carlson, Oscar N.; Krupp, William E.; and Wilhelm, Harley A., 3,425,826.
Schulz, Wallace W.; Schiefelbein, Gary F.; and Bruns, Lester E., 3,463,739.
Schwemin, Arnold J., 3,457,646.
Seiwatz, Henry; and Groom, Carl M., 3,448,377.
Seppi, Edward J., 3,450,879.
Shaffer, James H.; Moulton, David M.; and Grimes, Warren R., 3,473,897.
Shapiro, Samuel S., 3,485,757.
Silver, Gary L., 3,443,912.
Smith, James L.; and Willen, Donald W., 3,432,656.
Smith, Marvin L., 3,443,097.
Snyder, Richard L., 3,447,144.
Sood, Ravinder K., 3,458,972.
Sparks, David W.; and Tessier, Jack H., 3,483,081.
Splichal, William F., Jr., 3,461,292.
Sprague, Theodore P., 3,450,576.
Steindler, Martin J.; and Jonke, Albert A., 3,423,190.
Stober, Werner, 3,429,187.
Stone, Kenneth F.; and Jackson, Leslie T., 3,431,502.
Strauss, Michael G., 3,439,187.
Strauss, Michael G., 3,480,793.
Swanson, Donald H., 3,434,809.
Sylvester, Robert T., 3,466,590.
Tarr, Charles O.; and Owen, Louis V., 3,466,203.
Thieberger, Pedro A., 3,484,703.
Thoma, Roy E., Jr.; and Hebert, Gordon M., 3,448,054.
Thomas, Robert J., 3,471,783.
Thompson, Thomas K., 3,479,295.
Tiede, Ralph L., 3,445,254.
Toby, Fred L., 3,421,010.
Trevorrow, La Verne E.; Gerding, Thomas J.; and Steindler, Martin J., 3,482,949.
Turner, Richard F., 3,476,645.
Tuthill, Edwin J., 3,440,731.
Tuthill, Edwin J.; and Reilly, James J., Jr., 3,482,376.
Vargo, Edward J., 3,449,143.
von Ehrenstein, Dietes; and Hess, David C., 3,461,294.
Walker, Robert H.; and Walker, Robert J., 3,432,662.
Wallace, Richard M., 3,454,490.
Ward, Wilfred T.; and Adams, Robert E., 3,466,137.
Webb, Walter S., 3,450,857.
Weinschel, Bruno O., 3,470,462.
Welch, Edmund F., 3,468,169.
Whaley, Thomas P.; and Wood, James M., Jr., 3,450,558.
Wheatley, Seth J.; and Rains, David B., 3,484,391.
Wheelwright, Earl J., 3,445,201.
White, George D.; and Handwerk, Joseph H., 3,431,329.
Wilhelm, Harley A.; and Bergman, Roger M., 3,460,918.
Wilhelm, Harley A.; and McClusky, James K., 3,463,634.
Wilkes, Donald F., 3,452,175.
Wilkes, Donald F., 3,452,309.
Wilkes, Donald F., 3,471,668.
Wilkinson, Bruce L.; and Le Vier, Paul W., 3,427,475.
Williams, John E. C., 3,486,146.
Williams, Leonard C., 3,441,478.
Withnell, Ronald, 3,463,004.
Wohlberg, Cornel, 3,479,423.
Wohlberg, Cornel, 3,486,979.
Woolsey, Joseph W., 3,475,808.
Yrene, Carl S., 3,431,379.
Zane, Ronald, 3,486,094.

Commerce: *See*—
Bender, Peter L.; and Owens, James C., 3,424,531.
Berlinsky, Anthony A.; Varson, Robert J.; Pearson, Gordon W.; and Krebeck, Norman C., 3,484,970.
Lloyd, Edward C., 3,464,256.
Motz, Joseph W., 3,477,023.
Peck, Richard C.; and Atkins, Elbert W., 3,428,890.
Saylor, Charles Proffer, 3,449,087.
Selby, Myron Carl, 3,487,305.
Thompson, Moody C., Jr.; and Wood, Lockett E., 3,437,820.
Thompson, Moody C., Jr.; and Wood, Lockett E., 3,437,821.

Federal Aviation Administration: *See*—
Baker, Ralph F., 3,463,527.
Middleton, Ralph E., 3,469,501.
Teagle, Richard E., 3,420,442.

Health Education and Welfare: *See*—
Craig, George B., Jr.; and Fuchs, Morton, 3,450,816.
Elkin, Samuel; and Shapiro, Warren B., 3,463,782.
Falb, Richard D.; and Cooper, Charles W., 3,438,374.
Fox, Eugene N., 3,480,610.
Fox, Eugene N., 3,487,148.
Giglio, Ernest J., 3,453,998.
Jarboe, Charles H.; and Buckler, Robert Thomas, 3,429,912.
Karmen, Arthur, 3,425,806.
Ko, Wen H., 3,456,134.
Kolobow, Theodor; and Dedrick, Robert L., 3,463,728.
Kuehne, Martin E., 3,454,583.
Leininger, Robert I.; and Grode, Gerald A., 3,457,098.
Matherne, Mederic J., Jr., 3,465,884.
Mosher, Carol W.; Acton, Edward M.; and Goodman, Leon, 3,468,886.
Nagyvary, Joseph, 3,463,772.
Pierce, William S.; Morrow, Andrew G.; and Behrendt, Douglas M., 3,448,465.
Reedy, Robert J., 3,463,013.
Sela, Michael; Arnon, Ruth; and Lahav, Miriam, 3,466,368.
Thurstone, Frederick L., 3,451,260.
Wolfe, Robert W., 3,434,162.

Interior: *See*—
Ageton, Robert W., 3,464,502.
Archer, David H.; Glasser, Albert D.; Sverdrup, Edward F.; and Taylor, Herbert L., 3,433,680.
Barth, Edwin F.; and Ettinger, Morris B., 3,480,144.
Bauer, Donald J.; and Lindstrom, Roald E., 3,425,793.
Blanco, Raymond E.; Clark, Walter E.; and Yee, William C., 3,463,814.
Bregman, Jacob I.; Anthes, David E.; and Braman, Robert S., 3,463,713.
Brooks, Parkman T., 3,446,720.
Cadwallader, Edgar A.; and Revilock, Joseph F., 3,428,114.
Cochran, Neal P., 3,477,942.
Davison, Richard R.; and Hood, Donald W., 3,424,675.
Deardorff, Donald K., 3,431,766.
Dunseth, Maria G.; and Salutsky, Murrell L., 3,421,877.
Erb, Robert A., 3,466,189.
Ergun, Sabri; and Berman, Martin, 3,463,310.
Forney, Albert J.; Gasior, Stanley J.; and Field, Joseph H., 3,463,623.
Friedman, Sam; and Hiteshue, Raymond W., 3,429,679.
George, D'Arcy R.; Riley, James M.; and Ross, J. Richard, 3,429,657.
Gnaedinger, Richard H., 3,429,710.
Haworth, Gordon R.; and Zambas, Peter G., 3,466,094.
Hite, Robert J., 3,481,695.
Huff, John B., 3,434,850.
Ivey, Kenneth H.; and Chastain, Sidney, 3,441,404.
Jarvis, Marvin A., 3,450,267.
Johnson, Glenn E., 3,424,556.
Johnson, Glenn E.; Forney, Albert J.; and Field, Joseph H., 3,424,676.
Johnson, Robert C.; and Shell, Haskiel R., 3,463,607.
Kiewit, Jack L., 3,434,401.
Klima, Edward F.; Seidel, Wilber R.; DeGrove, William; and Hightower, Frank J., 3,483,649.
Knauf, Jack William, 3,464,766.
Koberg, Gordon E., 3,425,791.
Koopman, Francis C.; and Kunkle, J. L., 3,463,717.
Landers, William S., 3,455,789.
Lucas, Harry G., 3,485,420.

Mitchell, Donald W.; Murphy, Edwin M.; Kawenski, Edward M.; Nagy, John; and Williams, Roger P., 3,482,637.
Nazaruk, Stanley; Rosa, Carl; and Headrick, Alvin F., 3,427,683.
Nichols, Earl F.; Ivey, Kenneth H.; and Shell, Haskiel R., 3,443,891.
Nichols, Thomas C., Jr.; Abel, John F., Jr.; and Lee, Fitzhugh T., 3,482,443.
Pasini, Joseph, III, 3,482,635.
Rajan, Krishnaswamy S.; and Casolo, Angelo J., 3,479,266.
Rajan, Krishnaswamy S.; and Casolo, Angelo J., 3,479,267.
Rusnak, Gene A., 3,479,638.
Sandwith, Colin J., 3,435,668.
Schleif, Ferber R., 3,464,432.
Schleif, Ferber R.; and Martin, Glenn E., 3,465,235.
Senftle, Frank E.; Hoyte, Alfred F.; and Martinez, Prudencio, Jr., 3,463,922.
Shale, Correll C., 3,482,374.
Sharples, Allan; and Banks, William, 3,439,074.
Sieder, Everett N., 3,476,654.
Sieder, Everett N., 3,476,655.
Ward, Frederick N., 3,434,800.
Wekell, John C.; Houle, Clifford R.; and Malins, Donald C., 3,420,869.
Wilson, Peter C., 3,453,703.
Wires, Harold O., 3,463,981.

National Aeronautics and Space Administration, Administrator, with respect to an invention of:

Adams, Clyde M., Jr., and Weiss, Stanley. Pretreatment method for antiwettable materials. 3,420,978, 1-7-69 Cl. 219-121.
Weinstein, Martin; and, and Epstein, Joseph. Segmenting lead telluride-silicon germanium thermoelements. 3,452,423, 7-1-69 Cl. 29-472.9
Ameer, George A., and Walters, Richard M. Telespectrograph. 3,458,702, 7-29-69 Cl. 250-83.3
Anderson, Tage O. Ranging system. 3,447,155, 5-27-69 Cl. 343-13.
Anderson, Tage O., and Lushbaugh, Warren A. Parallel generation of the check bits of a PN sequence. 3,474,413, 10-21-69 Cl. 340-146.1
Arrance, Frank C. and, and Soltis, Daniel G. Method of making membranes. 3,421,948, 1-14-69 Cl. 136-146.
Ayvazian, Ralph A. Propellent mass distribution metering apparatus. 3,472,080, 10-14-69 Cl. 73-432.
Baker, Charles D. Electrical spot terminal assembly. 3,464,051, 8-26-69 Cl. 339-17.
Barniskis, Walter A., and Fink, John W. Bus voltage compensation circuit for controlling direct curent motor. 3,446,992, 5-27-69 Cl. 307-265.
Becker, Randolph A. Photoelectric energy spectrometer. 3,444,375, 5-13-69 Cl. 250-83.3
Beckerle, Lloyd D. Heat shield oven. 3,431,397, 3-4-69 Cl. 219-347.
Biship, Otis L. Broadband choke for antenna structure. 3,428,923, 2-18-69 Cl. 333-97.
Black, Stanley H. Automatic gain control system. 3,428,910, 2-18-69 Cl. 330-29.
Blair, George Richard. Inorganic thermal control pigment. 3,434,855, 3-25-69 Cl. 106-84.

Del Casale, Leonard A.; and Blutinger, Bernhard. Signal generator. 3,422,278, 1-14-69 Cl. 307-106.

Breed, Laurence W., and Elliott, Richard L. Preparation of ordered poly (arylenesiloxane) polymers. 3,444,127, 5-13-69 Cl. 260-46.5
Brinks, Bernard J. Plating nickel on aluminum castings. 3,472,742, 10-14-69 Cl. 204-38.
Burns, Fred P., and, and Friederichs, Josef E. Biomedical radiation detecting probe. 3,427,454, 2-11-69 Cl. 250-83.
Canvel, Henry. Video communication system and apparatus. 3,474,192, 10-21-69 Cl. 178-6.6
Chappelle, Emmett W. Lyophilized reaction mixtures. 3,423,290, 1-21-69 Cl. 195-99.
Chappelle, Emmett W. Use of the enzyme hexokinase for the reduction of inherent light levels. 3,437,560, 4-8-69 Cl. 195-68.
Clauss, Robert C. Transmission line thermal short. 3,474,357, 10-21-69 Cl. 333-96.
Clauss, Robert C. High-gain, broadband traveling wave maser. 3,486,123, 12-23-69 Cl. 330-4.3
Conant, John E. Television simulation for aircraft and space flight. 3,458,651, 7-29-69 Cl. 178-6.
Cree, Robert F., and Arno, Gatti. Catalyst for growth of boron carbide crystal whiskers. 3,423,179, 1-21-69 Cl. 23-208.
Derr, Lloyd J. Direct radiation cooling of the collector of linear beam tubes. 3,426,230, 2-4-69 Cl. 313-44.
Dunnavant, William R., and Markle, Richard A. Process for preparation of dianilinosilanes. 3,433,818, 3-18-69 Cl. 260-448.2
Easterling, Mahlon F. Time synchronization system utilizing moon reflected coded signals. 3,472,019, 10-14-69 Cl. 58-24.
Eckles, Paul N. High speed infrared furnace. 3,427,435, 2-11-69 Cl. 219-411.
Edman, Charles W. Electrical switching device. 3,470,342, 9-30-69 Cl. 200-152.
Ehrenfeld, David A. Excitation and detection circuitry for a flux responsive magnetic head. 3,428,761, 2-18-69 Cl. 179-100.2
Elliott, David G. Magnetohydrodynamic induction machine. 3,422,291, 1-14-69 Cl. 310-11.
Enstrom, Ronald E., and Schacht, W. F. Water cooled contactor for anode in carbon arc mechanism. 3,428,847, 2-18-69 Cl. 314-129.
Faulkner, Richard D. Bonding graphite with fused silver chloride. 3,453,172, 7-1-69 Cl. 161-182.
Ford, Allen G. Rock drill for recovering samples. 3,421,591, 1-14-69 Cl. 175-323.
Gilbert, George J. Apparatus for ballasting high frequency transistors. 3,430,115, 2-25-69 Cl. 317-235.
Haley, Floyd C. Cavity radiometer. 3,487,216, 12-30-69 Cl. 250-84.
Hanchey, Karl K., Mahan, James C., and Kubik, James S. Device for preventing high voltage arcing in electron beam welding. 3,474,220, 10-21-69 Cl. 219-121.
Hansen, Siegfried. Thrust dynamometer. 3,463,001, 8-26-69 Cl. 73-117.4
Hanson, Robert N. Tensile strength testing device. 3,460,379, 8-12-69 Cl. 73-95.
Hanson, Robert N. Hydroforming techniques using epoxy molds. 3,461,700, 8-19-69 Cl. 72-61.

Harrison, Royal G., Jr. Pressure variable capacitor. 3,422,324, 1.14-69 Cl. 317-246.

Herron, Bill G. AC power control circuit. 3,458,726, 7-29-69 Cl. 307-252.
Higa, Walter H. Refrigeration apparatus. 3,421,331, 1-14-69 Cl. 62-6.
Hillberg, Ernest T. Load relieving device. 3,472,069, 10-14-69 Cl. 73-141.
Holmes, Samuel J. Ultraviolet filter. 3,427,089, 2-11-69 Cl. 350-1.
Holtz, Robert F., and Baker, Charles D. Coating process. 3,446,642, 5-27-69 Cl. 117-21.
Howland, Benjamin T. High pressure air valve. 3,447,774, 6-3-69 Cl. 251-31.
Iles, Peter A. Method for producing a solar cell having an integral protective covering. 3,437,527, 4-8-69 Cl. 136-89.
Jacobs, Irwin M., Kleinrock, Leonard, Lushbaugh, Warren A., and Tveitan, Willy. Data compression system. 3,422,403, 1-14-69 Cl. 340-172.5
Kemp, Kenneth L. Pneumatic mirror support system. 3,427,097, 2-11-69 Cl. 350-310.
Kendall, James M., Sr., and Plamondon, Joseph A., Jr. Conically shaped cavity radiometer with a dual purpose cone winding. 3,461,290, 8-12-69 Cl. 250-83.3
Kibbe, Raymond Keith. Load cell protection device. 3,464,049, 8-26-69 Cl. 338-5.
Kinsel, Robert C. Signal multiplexer. 3,428,919, 2-18-69 Cl. 333-8.
Krause, Stanley J. Method and device for determining battery state of charge. 3,460,995, 8-12-69 Cl. 136-182.
Kropp, Charles J. Determination of spot weld quality. 3,466,418, 9-9-69 Cl. 219-91.
Laine, Donald D. Electromechanical actuator. 3,421,700, 1-14-69 Cl. 239-416.
Lessley, Robert L., and Bosco, George B., Jr. Rotating shaft seal. 3,468,548, 9-23-69 Cl. 277-13.
Lingle, John T. Static inverter. 3,470,496, 9-30-69 Cl. 331-113.
Lutes, George F., Jr., and Schreder, Kenneth D. Broadband stable power multiplier. 3,482,179, 12-2-69 Cl. 330-31.
Maserjian, Joseph. Temperature sensitive capacitor device. 3,456,112, 7-15-69 Cl. 250-83.
Mauch, Hagen R. Deployable lattice column. 3,486,279, 12-30-69 Cl. 52-108.
Maxwell, Myron Walter. Helical coaxial resonator RF filter. 3,437,959, 4-8-69 Cl. 333-73.
Maxwell, Richard F., Jr., and Higby, Richard F. Electronic background suppression method and apparatus for a field scanning sensor. 3,444,380, 5-13-69 Cl. 250-209.
McCann, Robert J. Device for handling heavy loads. 3,430,909, 3-4-69 Cl. 248-317.
McCormick, Charles T., Jr., Doughty, Robert A., and Camp, Ernest L. Automatic signal range selector for metering devices. 3,464,012, 8-26-69 Cl. 324-115.
McHaffie, David J. Extensible cable support. 3,448,346, 6-3-69 Cl. 317-122.
McKevitt, Frank X. Swirling flow nozzle. 3,443,384, 5-13-69 Cl. 60-263.

Michel, Raymond E.; and, and Nelson, Dallas E. Convoluting device for forming convolutions and the like. 3,443,412, 5-13-69 Cl. 72-354.

Mildice, James W. Light radiation direction indicator with a baffle of two parallel grids. 3,435,246, 3-25-69 Cl. 250-237.

Montgomery, Lawrence C., and Morelli, Frank A. Process for producing a sterilized instrument. 3,433,662, 3-18-69 Cl. 117-6.

Morris, James F.; and, Tischler, Richard F.; and, and Beckman, Paul. Probes having guard ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases. 3,447,071, 5-27-69 Cl. 324-33.

Murphy, Franklin L. Bimetallic power controlled actuator. 3,446,998, 5-27-69 Cl. 310-4.

Nasuti, Anthony J. Test fixture for pellet-like electrical elements. 3,422,354, 1-14-69 Cl. 324-158.

Keating, John M.; Roman, James A.; Green, Robert G.; and Patten, Charles W. Method and apparatus for attaching physiological monitoring electrodes. 3,426,746, 2-11-69 Cl. 128-2.06.

Newcombe, Clive A., and Procmsey, John H. Method for making a heat insulating and ablative structure. 3,425,885, 2-4-69 Cl. 156-242.

Nord, Douglas B., and Huschke, Ernst G., Jr. Method of joining aluminum to stainless steel. 3,473,216, 10-21-69 Cl. 29-492.

Pasciatti, Edward R., and Talbot, Michael W. Protection for energy conversion systems. 3,437,903, 4-8-69 Cl. 321-2.

Pasciutti, Edward R., and Talbot, Michael W. Inverter with means for base current shaping for sweeping charge carriers from base region. 3,466,570, 9-9-69 Cl. 331-113.

Penque, Nicholas J., and Rosen, Harold A. Varactor high level mixer. 3,437,935, 4-8-69 Cl. 325-446.

Pinckney, Kenneth R.; and Del Curto, Brian. System for monitoring the presence of neutrals in a stream of ions. 3,430,131, 2-25-69 Cl. 324-33.

Perkins, Gerald S. Detenting servo motor. 3,487,281, 12-30-69 Cl. 318-382.

Priebe, George W., and Scroop, Francis R. Relief container. 3,421,506, 1-14-69 Cl. 128-283.

Ramey, Robert L.; and, and McLennan, William D. Depositing semiconductor films utilizing a thermal gradient. 3,420,704, 1-7-69 Cl. 117-201.

Reed, Leonard. Method of forming ceramic-to-metal seal. 3,481,638, 12-2-69 Cl. 287-189.365

Ritchie, Donald W.; and, and Goldsmith, John V. Solar battery with interconnecting means for plural cells. 3,446,676, 5-27-69 Cl. 136-89.

Ritchie, Douglas G. Soil particles separator, collector and viewer. 3,472,372, 10-14-69 Cl. 209-10.

Robinson, Gerald P., and Crofts, Duane E. Heat flux sensor assembly. 3,431,149, 3-4-69 Cl. 136-213.

Ruddock, Kenneth A., and Rempel, Robert C. Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system. 3,443,208, 5-6-69 Cl. 324-0.5

Schloss, Alden L., and Booth, Robert A. Solid state switch. 3,430,063, 2-25-69 Cl. 307-136.

Schuster, Marvin A., Broderick, James C., Huggins, Carl T., List, William F., Strull, Gene, and Callahan, David E. Solid state television camera system. 3,470,318, 9-30-69 Cl. 178-7.1

Steeneken, Johannes. Relief valve. 3,421,541, 1-14-69 Cl. 137-491.

Stella, Anthony J. Electrical connector pin with wiping action. 3,458,851, 7-29-69 Cl. 339-95.

Stephens, James B. Space simulator. 3,443,390, 5-13-69 Cl. 62-55.5

Stone, Frederick A. Synchronous servo loop control system. 3,424,966, 1-28-69 Cl. 318-314.

Stone, Leon P., and Johansen, David L. Articulated multiple couch assembly. 3,466,085, 9-9-69 Cl. 297-68.

Taylor, Charles J. High resolution developing of photosensitive resists. 3,458,313, 7-29-69 Cl. 96-49.

Tchernev, Dimiter I., Vorkink, Harry G., and Guisinger, John E. Variable frequency nuclear magnetic resonance spectrometer. 3,474,328, 10-21-69 Cl. 324-0.5

Thompson, George D.; and, and Lutes, George F., Jr. Cascaded complementary pair broadband transistor amplifiers. 3,461,393, 8-12-69 Cl. 330-13.

Todd, Hoyt H. Shock tube powder dispersing apparatus. 3,472,202, 10-14-69 Cl. 118-308.

Topits, Albert, Jr., Floyd, Elmer L., and Biles, John E., Jr. High impact pressure regulator. 3,443,583, 5-13-69 Cl. 137-505.12

Toth, Louis R., and MacGlashan, William F., Jr. Belleville spring assembly with elastic guides. 3,430,942, 3-4-69 Cl. 267-1.

Valentijn, Herman P. Roll-up solar array. 3,473,758, 10-21-69 Cl. 244-1.

Van Arnam, Donald E., and Charlton, Kyle W. Pneumatic system for controlling and actuating pneumatic cyclic devices. 3,421,549, 1-14-69 Cl. 137-624.14

Vinal, Albert W. Method for processing ferrite cores. 3,422,019, 1-14-69 Cl. 252-62.64

Weinstein, Martin; and, and Sherwin, Eldon I. Bonding thermoelectric elements to nonmagnetic refractory metal electrodes. 3,447,233, 6-3-69 Cl. 29-472.9

Welling, Charles E. Thermally activated foaming compositions. 3,481,887, 12-2-69 Cl. 260-2.5

Wells, Bernie R.; and, and Rowland, Charles W. Apparatus for ejection of an instrument cover. 3,429,477, 2-25-69 Cl. 220-55.

Wheatley, Donald G. Hermetic sealed vibration damper. 3,420,338, 1-7-69 Cl. 188-1.

Wilhite, William F. Micropacked column for a chromatographic system. 3,443,416, 5-13-69 Cl. 73-23.1

Wong, Robert Y. Plurality of photosensitive cells on a pyrmidical base for planetary trackers. 3,448,273, 6-3-69 Cl. 250-203.

Wortman, Jimmie J., and Stockard, Ralph H. Semiconductor P-N junction stress and strain sensor. 3,432,730, 3-11-69 Cl. 317-234.

Yager, Stephen P. Piping arrangement through a double wall chamber. 3,446,387, 5-27-69 Cl. 220-14.

Yasui, Robert K. Solar cell matrix. 3,466,198, 9-9-69 Cl. 136-89.

Zottarelli, Lawrence J. Digital memory in which the driving of each word location is controlled by a switch core. 3,461,437, 8-12-69 Cl. 340-174.

Zottarelli, Lawrence J. Current steering switch. 3,466,459, 9-9-69 Cl. 307-88.

National Aeronautics and Space Administration: *See*—

Adams, George D., 3,466,424.
Allen, Gilbert V., 3,469,069.
Allen, Walter K., 3,430,237.
Barrington, Alfred E.; and Caruso, Anthony J., 3,469,375.
Beauregard, William W.; and Brisson, Edgar H., 3,455,121.
Berry, Eugene H.; and Nola, Frank J., 3,470,443.
Berry, Eugene H.; and Nola, Frank J., 3,470,446.
Binckley, William G.; and Wright, Warren H., 3,480,789.
Blanche, James F., 3,430,182.
Bockwoldt, Walter H., 3,470,313.
Booth, Franklin W., 3,420,069.
Boyle, Joseph C., 3,460,381.
Brown, Clinton Eugene; and Stone, Ralph W., Jr., 3,461,855.
Buckley, Donald H.; and Johnson, Robert L., 3,466,243.
Burke, Joseph R., 3,428,812.
Camacho, Salvador L., 3,450,946.
Cancro, Ciro A., 3,426,219.
Canning, Thomas N., 3,452,872.
Canning, Thomas N., 3,465,638.
Casey, Lewis O., 3,448,341.
Cepollina, Frank J., 3,460,378.
Chandler, Joseph A., 3,465,482.
Clay, Forrest P., Jr.; and Melfi, Leonard T., Jr., 3,466,484.
Cliff, Rodger A., 3,464,018.
Cooper, Dale W.; and Kuhns, Perry W., 3,447,003.
Cree, David; and Wenzel, Guss E., 3,434,064.
Cressey, John R.; and Cote, Charles E., 3,437,874.
Davis, John W.; and Hill, Olen E., 3,469,734.
Day, Joe L.; and Lippitt, Maxwell W., Jr., 3,420,223.
Deboo, Gordon J., 3,470,495.
Del Duca, Anthony, 3,423,579.
Dimeff, John, 3,437,919.
Dimeff, John, 3,455,171.
Elia, Armondo D.; and Schmidt, Richard F., 3,438,044.
Evensen, David A.; and Raney, John P., 3,443,584.
Fakan, John C., 3,443,128.
Fessler, Theodore E.; Smith, Albert B.; and Vincent, John S., 3,421,056.
Finke, Robert C.; and Vetrone, Robert H., 3,420,945.
Foote, Richard H.; and Figgins, Donald A., 3,484,712.
Fryer, Thomas B., 3,453,546.
Geringer, Henry J., 3,470,304.
Graab, Judson W.; Rosenblum, Louis; Maple, William E.; Dupraw, William A.; and Gahn, Randall F., 3,472,625.
Gran, Alfred A.; and Lang, Ronald, 3,473,165.
Grantham, William L., 3,473,116.
Gregory, John W.; and Nored, Donald L., 3,460,759.
Griffin, Francis D., 3,426,272.
Griffin, William S., 3,420,253.
Groom, Nelson J., 3,473,050.
Gross, Chris, 3,468,727.
Gyorgak, Charles A.; and Hoover, Robert J., 3,469,436.
Habra, Joseph H., 3,434,037.
Hankinson, Thomas W. E., 3,430,460.
Hatcher, Norman M.; Groom, Nelson J.; and Newcomb, Arthur L., Jr., 3,437,394.
Haynos, Joseph G., 3,459,391.
Hennigan, Thomas J., 3,419,964.
Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O., 3,426,263.

Herr, Robert W., 3,421,363.
Hillis, Donuil A., 3,430,227.
Holden, George R.; and Smith, Joseph R., Jr., 3,420,225.
Holt, Hugh M.; Kelsey, Eugene L.; and Mills, Stacey M., 3,434,033.
Hooper, Carrol D., 3,425,131.
Hsu, Yih-Yun; and Dunning, John W., Jr., 3,453,462.
Husmann, Otto K., 3,421,864.
Illg, Walter; and Eichenbrenner, Fred F., 3,472,060.
Iwasaki, Nozomu; and Hadland, Wayne O., 3,472,086.
Johnson, Caldwell C., 3,439,886.
Johnson, John C., Jr.; Madey, Jesse M.; Moyer, Xopher W.; and McCarthy, Dennis K., 3,460,397.
Jones, Robert A.; and Hunt, James L., 3,461,721.
Kerwin, William J.; and Scott, Stanley G., 3,423,608.
Kerwin, William J.; Dix, Michael G.; and Munoz, Robert M., 3,464,016.
Kessel, James E., 3,422,440.
Kleinberg, Leonard L., 3,466,560.
Knechtel, Eral D.; and Pitts, William C., 3,425,272.
Kopetski, Frederick J., 3,437,832.
Laughlin, Charles R., Jr.; Hilton, Gay E.; Lavigne, Richard C.; and Hollenbaugh, Roger C., 3,471,856.
Lingle, John T., 3,458,833.
Lipke, David W., 3,450,842.
Lohr, Jerome J., 3,430,902.
Ludwig, Lawrence P., 3,421,768.
Ludwig, Lawrence P., 3,466,052.
Mandelkorn, Joseph; and Broder, Jacob, 3,434,885.
Mandelkorn, Joseph, 3,472,698.
Mayo, James W.; and Michael, James E., 3,421,134.
Mayo, James W., 3,427,047.
McCampbell, William M., 3,458,104.
McConnell, James C., 3,468,765.
Milly, John J., 3,465,986.
Minott, Peter O., 3,433,960.
Moffitt, Fred L., 3,472,140.
Mosier, Benjamin, 3,468,303.
Munoz, Robert M., 3,456,193.
Nelson, Clifford H.; and Gurtler, Charles A., 3,425,268.
Nelson, Wallace J., 3,426,791.
Newcomb, Arthur L., Jr., 3,448,290.
Olsen, William A., Jr.; and Pinkel, Isadore I., 3,429,058.
Paik, Sungik Francis, 3,470,489.
Park, John J., 3,465,567.
Parker, Otis J., 3,473,333.
Pauli, Frank A., 3,472,470.
Paulkovich, John, 3,422,352.
Peterson, William D.; and Kline, Arthur J., Jr., 3,470,475.
Pezdirtz, George F.; and Bell, Vernon L., Jr., 3,450,878.
Pfaff, Helmuth, 3,463,563.
Phlieger, Graydon A., Jr., 3,433,909.
Pincus, Bruce R., 3,433,961.
Plitt, Karl F.; and Clatterbuck, Carroll H., 3,427,205.
Popick, Harvey; and Roberts, Donald L., 3,472,998.
Popma, Dan C.; and Collins, Vernon G., 3,444,051.
Quatinetz, Max; Weeton, John W.; and Herbell, Thomas P., 3,472,709.
Reader, Paul D.; Kaufman, Harold R.; and Kerslake, William R., 3,447,015.
Reece, Orvil Y., 3,465,569.
Reece, Orvil Y., 3,469,437.
Reid, Harry, Jr.; and Currie, James R., 3,487,288.
Rinard, George A.; and Watson, John D., 3,421,053.
Rogallo, Francis M.; and Naeseth, Rodger L., 3,443,779.
Rommel, Marjorie A.; and Dayan, Victor H., 3,472,629.
Rosenbaum, Bernard J.; Oberschmidt, Mike; and Fitzgerald, John J., 3,425,276.
Rosin, Seymour; Gelles, Rubin; and Eichenthal, Judah, 3,472,577.
Samson, Robert, 3,447,850.
Schorum, Stanley W.; and Wolff, Jay R., 3,474,441.
Schrader, James H., 3,447,154.
Schutt, John B.; and Shai, Charles M., 3,454,410.
Sciacca, Thomas P.; and Eubanks, Alfred G., 3,446,960.
Seaton, Stuart L., 3,446,558.
Seaton, Stuart L., 3,469,087.
Seyl, Jack W.; and Martin, Jan W., 3,471,858.
Shattuck, Russell D., 3,437,818.
Shelton, Russell D., 3,470,466.
Short, Joe R., 3,469,066.
Sneeden, Ralph J., 3,433,015.
Spitzer, Cary R., 3,430,937.
Stephens, David G.; and Powell, Clemans A., Jr., 3,473,379.
Sterrett, James R.; Emery, James C.; and Barber, John B., 3,468,609.
Strass, Herbert K.; and Maples, Hoyt E., 3,427,093.
Stroup, Eugene R., 3,463,673.
Sturman, John C., 3,463,939.
Sweet, George E.; Anderson, William W., Jr.; and Miller, Howard B., 3,433,953.
Taylor, Ralph E., 3,421,105.
Thornwall, Joseph C., 3,427,525.
Tucker, Elton M., 3,422,390.
Tucker, Elton M., 3,425,487.
Turner, Robert E.; and Camp, Dennis W., 3,465,584.
Uber, Paul W., 3,460,781.
Van Schoiack, Michael M. E., 3,434,050.
Vary, Alex, 3,446,997.
Vick, Howard A., 3,467,837.
Wall, William A., Jr.; and Yost, Vaughn H., 3,443,732.
Wall, William A., Jr., 3,469,068.
Weeton, John W.; Quatinetz, Max; and Orth, Norman W., 3,463,679.
Whitacre, Horace E., 3,469,289.
Whitfield, Charles Exum, 3,470,043.
Wilson, William O., 3,433,079.
Zrubek, William E., 3,456,201.

National Science Foundation: *See*—
Langer, Gerhard, 3,434,335.

Navy: *See*—
Abbott, Frank R., 3,458,856.
Abbott, Frank R., 3,470,402.
Adicoff, Arnold; and Yukelson, Arnold A., 3,434,990.
Adolph, Horst G.; and Kamlet, Mortimer J., 3,435,079.
Adolph, Horst G., 3,446,857.
Allen, Walter E., 3,435,328.
Alpert, Louis, 3,468,215.
Altman, Daniel E., 3,448,274.
Altman, Daniel E.; and Geller, Myer, 3,470,493.
Altshuler, Thomas L.; Harr, Thomas E.; and Ledges, George E., 3,435,137.
Andersen, Donald G., 3,435,560.
Anderson, Victor C.; and Schmidtmann, Victor H., 3,454,286.
Anderson, William W., 3,461,382.
Angeloff, Wesley L., 3,449,712.
Angeloff, Wesley L., 3,462,730.
Arikawa, Yoshiyuki; and Waite, Hal R., 3,462,325.
Arnett, Henry D., 3,474,283.
Aronson, Moses, 3,486,242.
Attix, Frank H., 3,480,776.
Attix, Frank H., 3,484,605.
Ayers, Raymond I., 3,461,802.
Baehr, William H.; Stein, Bernard J.; and Weinberg, Milton, 3,424,988.
Bailey, Shady O., 3,449,232.
Barstow, Goidden J., 3,447,080.
Bauer, Myron J.; Neuman, Milton C.; and Wiethoff, Roger H., 3,477,338.
Baum, Cleophas Philemon, 3,468,501.
Bayles, John J., 3,471,877.
Beezley, Dale L., 3,484,618.
Begeman, Robert H.; and Kearschner, Jack T., 3,449,746.
Begeman, Robert H.; Brickey, Orville G.; May, Charles W.; and McCormick, Richard E., 3,453,617.
Belson, Henry S., 3,421,075.
Benham, Robert B., 3,458,008.
Bennett, Harold E.; Bennett, Jean M.; and Ashley, Edmond J., 3,421,079.
Bennin, Robert S., 3,447,371.
Benzinger, Theodor H., 3,474,790.
Betzold, Edward R.; and Magers, William M., 3,453,929.
Bickel, August H.; and Sotsky, George R., 3,469,926.
Birmingham, Henry Patrick; Perry, Barbour L.; and Baldwin, Alan W., 3,447,128.
Bladen, Thomas H., 3,430,153.
Bladen, Thomas H., 3,449,686.
Bliss, Billy R.; Gilliam, Clarence W.; and Laswell, John E., 3,473,472.
Bobrin, Marshall C., 3,425,032.
Bockelmann, Victor G., 3,434,681.
Bowers, Frederic M.; and Wagner, Regina D., 3,440,015.
Boyajian, Joseph Jacob, 3,421,111.
Boyer, Ralph E., 3,434,687.
Boymel, Bernard R., 3,448,371.
Bridge, Richard B.; and Marshall, Thomas E., III, 3,430,217.
Brinckman, Frederick E.; and Haiss, Hermann S., 3,437,651.
Bringman, Joseph M.; Lawther, James M.; and Kendig, Paul M., 3,435,409.
Bronfin, Barry R., 3,453,080.
Brooks, John D., 3,448,714.
Brugler, Joseph S., 3,487,163.
Buck, Francis E.; and Bellace, James R., 3,447,627.
Busenkell, Charles C.; and Mackie, William L., 3,474,474.
Bush, George B., 3,440,426.
Caldwell, John H., IV; Klee, Charles W.; Hiller, Alexander J.; Hanley, Thure E.; and Mathes, Robert H., 3,475,637.
Calhoon, Charles D., Sr.; and Ciccarelli, Dom J., 3,444,557.
Camarata, Peter W.; and Wicks, John W., 3,449,719.
Camp, Albert T.; Csanady, Elmer R.; and Danziger, Leonard, 3,447,983.

Carey, George F.; Chlupsa, John E.; Schloemer, Howard H.; and King, Emanuel F., 3,473,360.
Carruthers, George R., 3,478,216.
Catroppa, Frank A.; and Hirsch, Sidney, 3,423,759.
Cawley, John H.; and Schiff, Daniel, 3,441,901.
Chamberlin, Richard S., 3,432,850.
Chamberlin, Robert S.; Orr, Clifford M.; and Schmitz, Ewald F., 3,453,879.
Chatten, Clarence K.; and Behr, Samuel H., 3,467,047.
Ching, Wallace K. L.; Cottrell, James E., Jr.; Sherman, John D.; and Weinmann, Helmut T., 3,484,555.
Chinn, George M.; Schnatter, William P.; and Watson, Henry F., 3,431,820.
Chu, Lan J., 3,480,233.
Chubbuck, John G., 3,470,432.
Clay, Burton R.; and Haddad, Theodore A., 3,454,900.
Cleveland, Clark C., 3,431,147.
Cleveland, Clark C.; French, Harry F.; and Pattin, Howard S., 3,432,359.
Cleveland, Clark C., 3,432,360.
Cleveland, Clark C., 3,432,361.
Cody, Joseph P.; and Walker, Dale W., 3,456,910.
Cohen, Eliot D., 3,474,348.
Colberg, Stephen R., 3,474,267.
Conger, Robert L.; and Johnson, Jerome H., 3,484,627.
Cook, Rufus L.; and Bealor, Jesse L., Jr., 3,474,402.
Cook, Rufus Lee, 3,436,676.
Cook, Rufus Lee; and Whatley, Lucius D., Jr., 3,470,394.
Craig, Jimmie M.; Pohl, Russell A.; and Yost, Paul E., 3,469,805.
Craig, Jimmie M., 3,478,687.
Crist, Ralph P., 3,454,955.
Crockett, Sydney R., 3,457,861.
Crooks, Donald D.; Kelsey, Royal W.; and Sumsion, Henry T., 3,425,116.
Cubbage, Henry D., 3,440,991.
Currie, Andrew Cochran; and Dinwoodie, Andrew Harper, 3,468,903.
Cusick, Richard T., 3,472,984.
D'Aulerio, Herman, 3,469,808.
Dacons, Joseph C., 3,450,778.
Dale, John R., 3,452,594.
Damm, Carl A., 3,431,824.
Damm, Carl A.; and Eichmann, Albert Carl, 3,469,872.
Dare, James A., 3,450,049.
De Fazio, Benjamin S.; Silvia, John, Jr.; and Zemme, Caesar J., 3,449,764.
Dean, Mills, III; Ficken, Norman L., Jr.; and Mossi, Ercole J., 3,457,536.
Delagrange, Arthur D., 3,436,672.
Delagrange, Arthur D., 3,484,777.
Derderian, George; and Klaiber, Robert J., 3,436,546.
Dinwoodie, Andrew Harper; and Thompson, James McAllan Cormack, 3,449,358.
Dinwoodie, Andrew Harper; Fort, Godfrey; and Thompson, James McAllan Cormack, 3,461,134.
Dinwoodie, Andrew Harper; and Fort, Godfrey, 3,470,170.
Dinwoodie, Andrew Harper; and Thompson, James Mc Allan Cormack, 3,472,867.
Dinwoodie, Andrew Harper; and Fort, Godfrey, 3,474,092.
Donald, Philip J.; and Chambers, Robert W., 3,453,439.
Donaldson, Earl J., 3,474,986.
Douglass, Harry H., 3,451,000.
Drobny, Neil L., 3,460,165.
Dybvig, Douglas H., 3,424,797.
Eastland, Franklin M., 3,461,320.
Edwards, William R., 3,451,060.
Egan, William E., 3,470,032.
Eisele, John A., 3,461,444.
El-Kareh, Auguste B.; Marsh, Charles R.; and Fair, Richard B., 3,472,997.
Ellermeyer, Walter, 3,474,349.
Elton, Raymond C., 3,432,659.
Erickson, Allen M., 3,483,482.
Erickson, John M.; and Fairweather, John, 3,421,085.
Erickson, Porter W.; and Kinna, Marlin A., 3,440,120.
Erickson, Porter W., 3,473,985.
Estabrook, Norman B., 3,434,443.
Ewing, John I.; and Zaunere, Roger L., 3,472,196.
Falterman, Charles W.; and Stanton, Horace D., 3,440,115.
Falterman, Charles W.; and Griffith, William J., 3,477,373.
Farrell, Thomas P.; and Taylor, Jason H., 3,477,525.
Fay, Richard J.; and Keitel, Philip J., 3,447,881.
Fay, Richard J.; and Keitel, Philip J., 3,461,006.
Fink, Barry D., 3,425,982.
Finocchiaro, Edward Joseph, 3,483,894.
Fischell, Robert E., 3,424,907.
Fitch, Tom L.; McMillan, Donald W.; and Riggin, Lance E., 3,421,090.
Flanders, David R., 3,452,697.
Fleischner, Peter L.; and Smoke, Edward J., 3,480,452.
Fluhr, Frederick R., 3,424,987.
Fluhr, Frederick R., 3,436,689.
Fluhr, Frederick R.; and McLaughlin, Donald J., 3,440,651.
Flynn, Paul D.; Roll, Arthur A.; and Gilbert, Joseph T., 3,434,786.
Fohrmann, Ernest F.; Scoles, David A.; Cochran, Benjamin T.; and Dick, John O., 3,440,961.
Folds, Donald L.; Brown, David H.; and Warner, Henry L., 3,483,504.
Foote, Kenneth R.; and Haldeman, John W., 3,486,656.
Ford, Allen G.; and Wilson, Robert A., 3,483,839.
Ford, Floyd E., 3,432,743.
Ford, Floyd E.; Liwski, Piotr P. M.; Potter, Nelson H.; and Sizemore, Kenneth O., 3,447,059.
Ford, Floyd E.; and Sizemore, Kenneth O., 3,454,859.
Ford, Floyd E.; Hennigan, Thomas J.; Potter, Nelson H.; and Sizemore, Kenneth O., 3,470,441.
Ford, Holland C., 3,437,752.
Ford, Stephen H., 3,460,373.
Fort, Godfrey, 3,475,448.
Frank, Alfred L.; and Lengenfelder, Frank J., 3,475,014.
Frank, Joe; and Shipley, Charles A., 3,421,116.
French, Donald M., 3,462,639.
Froehner, Warren P.; Swallow, Robert E.; and Huffman, Delbert W., 3,450,155.
Gagliardi, Richard P.; and Metz, Louis C., Jr., 3,424,925.
Gane, Charles E., 3,449,683.
Garrett, Lane S.; Bergey, John M. K.; Greenberg, Stuart G.; and Alessandro, Frank J., 3,469,084.
Garrison, John B., 3,453,637.
Gebhardt, Joseph J., 3,480,467.
Gelardo, Ralph P.; and Reitlinger, Otto, 3,470,231.
Geller, Myer; and Altman, Daniel E., 3,458,830.
Gerke, Merrill D., 3,431,569.
Geyger, William A., 3,421,074.
Geyger, William A., 3,448,376.
Geyger, William A., 3,449,665.
Giddings, Alfred J., 3,473,504.
Gill, Henry L.; and Heller, Lyman W., 3,457,778.
Glover, Donald J.; and Kamlet, Mortimer J., 3,437,683.
Godsey, William J.; and Pollock, Michael J., 3,439,616.
Goldberg, Leonard J., 3,457,407.
Goldberg, Sidney L., 3,483,744.
Goodman, Maxwell W., 3,467,094.
Gowan, Richard L., 3,438,019.
Gowan, Richard L.; and Tyler, Howard V., 3,458,660.
Gowan, Richard L., 3,469,186.
Gowan, Richard L., 3,487,317.
Grelecki, Chester J.; Keeler, Robert A.; and Szabo, Barna, Jr., 3,470,042.
Grigor, James; and Peters, John, 3,484,486.
Gross, Seymour; Downes, William A.; and Rakoff, Frank B., 3,469,821.
Grosson, Joseph F., 3,447,552.
Gustafson, Wilbur E.; Chase, Walter M.; Lievens, James L.; and Campbell, James D., 3,454,949.
Habermehl, Clark L.; and Newell, James T., 3,470,392.
Hadjandreas, Andrew P., 3,480,866.
Hadler, Jacques B., 3,467,052.
Hahn, Edward E.; Koeller, Erick H.; and Norikane, Kiyoshi, 3,457,779.
Hakkarinen, William, 3,473,038.
Hall, John P., 3,448,920.
Hall, Thomas N., 3,431,290.
Halling, Michael A., 3,425,353.
Hamlin, Halley H., 3,434,397.
Hamlin, Halley H., 3,474,709.
Hammond, Gordon L., 3,486,433.
Hancks, Dorothy E.; Hubbard, William C.; and Routh, Claude C., 3,458,857.
Haney, Ted I.; and Warner, Henry L., 3,469,230.
Hannon, Francis C., Jr., 3,448,201.
Harris, Paul E., 3,448,289.
Hart, William E.; Allen, William A.; and Cunningham, Leslie L., 3,434,211.
Haselton, Frederick R.; and Keller, Karl H., 3,450,083.
Hassel, William F., 3,469,401.
Hatch, Alan R., 3,441,928.
Hauser, Henry K., 3,467,461.
Hauser, Martin, 3,431,251.
Hawkins, Eldon W., 3,434,075.
Haynes, Harvey H., 3,425,230.
Hecker, Klaus J., 3,437,780.
Hecker, Klaus J., 3,449,511.
Hecker, Klaus J., 3,472,948.
Heckman, Paul J., Jr., 3,467,773.
Hedger, Earl G.; Huckell, Gary R.; and Leonard, Daniel R., 3,437,750.

Heller, Lyman W., 3,456,496.
Henry, John W., IV, 3,478,691.
Herring, David L.; and Douglas, Catherine M., 3,454,634.
Herring, David L.; and Douglas, Catherine M., 3,457,196.
Hersh, Sidney; and Baller, Maurice H., 3,468,213.
Hill, Charles O., 3,436,795.
Hinton, George F., 3,435,338.
Hinton, George F., 3,436,650.
Hitchcock, Robert D., 3,447,961.
Hoerman, Kirk C.; and Sudduth, Herschel C., 3,449,571.
Holmes, Julian C., 3,449,685.
Holt, Lloyd Junior; and Myers, Harry L., 3,469,260.
Holtz, Frederick C., Jr., 3,449,118.
Holtz, Frederick C., Jr., 3,449,119.
Honigman, Allan, 3,425,391.
Horanoff, Eugene V., 3,447,369.
Horlander, Frank J., 3,454,792.
Howard, Darnley M.; and Mathis, Irving, 3,451,127.
Howard, Dean D., 3,435,453.
Howard, Dean D., 3,487,406.
Hoyt, Jack W., 3,420,096.
Hueber, Werner G.; and Hecker, Klaus J., 3,435,140.
Hughes, Richard S., 3,473,135.
Hughes, Richard S., 3,474,264.
Hughes, Richard Smith, 3,453,453.
Hughes, Richard Smith, 3,471,719.
Hughes, Richard Smith, 3,473,134.
Hull, Wilson E., 3,424,403.
Hyman, Abraham, 3,475,029.
Hyman, Abraham, 3,484,741.
Ivanovic, Peter; and Mulgrave, Thomas P., 3,454,243.
Jackim, Eugene H.; and Land, David B., 3,453,291.
Jackley, Donald N.; and Reisman, Coleman A., 3,472,699.
Jackson, Lloyd J., 3,476,012.
Jenkins, James L., 3,462,590.
Jenny, Alfred L., 3,461,047.
Jernigan, James L., 3,483,386.
Johnson, Einar C., 3,448,412.
Johnson, Guy L., 3,468,221.
Jones, Robert Allen, 3,428,977.
Joosten, Peter J., 3,453,833.
Jordan, Robert J.; Davis, Robert B.; and Phillips, Ronald N., 3,435,656.
Jue, Lawrence S., 3,453,834.
Jugle, Don B., 3,472,614.
Kaniuka, Walter W., 3,478,990.
Kaplan, Lloyd A.; and Upton, Joshua D., Jr., 3,420,746.
Karnow, Paul; and Hutchins, Blanchard S., 3,424,474.
Kelsey, Royal W.; Crooks, Donald D.; and Sumsion, Henry T., 3,436,253.
Kent, Robert L.; Badessa, Rosario S.; Barus, Carl; Dunn, Joseph M.; Glaser, Raymond Arthur; and Johnson, Leonard B., 3,477,666.
Kessler, Bernard V., 3,474,253.
Kilpatrick, David D., 3,435,452.
Kinast, Karl B., 3,421,045.
Kinkel, Lester J.; and McManus, Robert P., 3,483,472.
Klatt, Keith K., 3,449,970.
Klee, Harvey J., 3,425,031.
Korzekwa, Samuel M.; McFadyen, Robert J.; and Carp, Gerald, 3,483,559.
Koubek, Francis J., 3,440,132.
Kuck, John H., 3,453,550.
Lamasney, Michael V., 3,435,357.
Lambert, Milton; Cymmer, Thomas; and Wilder, Ira, 3,448,809.
Lanning, Walter C., 3,472,963.
Larkam, Charles W., 3,457,466.
Lauter, Charles A., Jr., 3,452,593.
Leary, James C., 3,437,941.
Letsinger, Robert M.; and Parmerlee, James K., 3,446,942.
Levasseur, Joseph E., 3,453,861.
Liben, William, 3,447,038.
Lindsay, George F.; and Whitehouse, Harper John, 3,487,203.
Little, Steven M.; Shefler, Sydney; and McGowan, Marvin E., 3,460,507.
Logan, Frank G., 3,474,327.
Loxley, Thomas E.; Sloop, James L.; and Wieland, Michael S., 3,447,077.
MacKallor, DeWitt C., Jr., 3,484,635.
Mallis, James N., 3,446,748.
Marek, Albert J., 3,449,595.
Marez, John, 3,469,193.
Marston, Arthur E., 3,422,436.
Marston, Arthur E., 3,422,437.
Marston, Arthur E., 3,438,038.
Marston, Arthur E.; and Reuss, Max L., Jr., 3,457,509.
Martel, Richard A.; Davis, William R.; and Sutton, Carl E., 3,478,217.
Mattey, Robert A., 3,433,436.
McCloy, Robert W., 3,430,446.
McCormick, Joseph F., 3,484,730.
McCormick, Loran F., 3,462,702.
McCown, Everett E., 3,425,771.
McEwan, William S.; and La Rocca, Edward W., 3,437,534.
McMahon, William F., 3,460,149.
Mendelson, Emanuel S.; and Wilson, Raymond, 3,469,651.
Menichelli, Vincent J.; and Piacesi, Dante, 3,447,464.
Meranda, James I., 3,483,474.
Mergner, Walter, 3,454,791.
Merrill, Edward W., 3,435,796.
Merry, Stanley H., 3,423,877.
Milberger, Walter E.; and Ottobre, Louis G., 3,449,596.
Miller, Fred L., 3,473,099.
Miller, Leo C., 3,435,352.
Miller, Marvin O., 3,448,962.
Milroy, Warren E., 3,478,220.
Mimken, Frederick J.; and Howard, Dwight T., 3,437,835.
Mitchell, Bruce C., 3,483,475.
Mitchell, James C., Jr., 3,462,709.
Mobley, Frederick F.; and Fischell, Robert E., 3,456,900.
Molik, Ronald E., 3,479,599.
Montalvo, Emanuel; Kranhold, Kenneth G.; and Carlson, Wayland A., 3,437,939.
Montgomery, Rayner A.; and Kilmer, Earl E., 3,469,733.
Moore, Robert P., 3,454,711.
Moore, Roy C., 3,435,408.
Moore, Thomas M.; and Watters,Edward C., 3,436,533.
Morel, Philippe H., 3,430,114.
Morris, George V.; and Weill, Paul B., 3,429,666.
Moser, Paul M., 3,478,211.
Moss, George J., Jr., 3,449,710.
Mulley, William G., 3,469,559.
Murdock, James W., 3,424,191.
Murphree, Francis J., 3,458,854.
Myers, Jack A., 3,439,610.
Myers, Jack A., 3,448,653.
Napple, Charles E., 3,461,539.
Natwick, Julius O., 3,453,374.
Nelson, Harry A.; Oeland, Ernest N., Jr.; Miller, Howard A.; and Blatt, Milton D., 3,477,376.
Nelson, Robert E.; and Boltz, Charles D., Jr., 3,479,822.
Neuman, Milton C.; and Wiethoff, Roger H., 3,448,655.
Nielsen, John P., 3,457,777.
Nielsen, Robert W., 3,440,505.
Noles, Ronald C.; and Craig, Jimmie M., 3,420,474.
O'Neill, William C., 3,448,752.
Obenschain, Arthur W., 3,419,958.
Olson, Edward G., 3,473,055.
Onak, Thomas P., 3,420,889.
Padberg, Louis R., Jr.; Parker, Fred D.; and Markland, Merwin R., 3,453,588.
Padberg, Louis R., Jr., 3,474,405.
Pannell, Otis R., 3,431,880.
Papineau, Milton D.; and Routh, Claude C., 3,462,729.
Pardoe, Carroll T., 3,453,541.
Parechanian, Haig S.; and Schutzler, Jerome C., 3,430,898.
Parker, James Brown, 3,433,800.
Parker, James F., Jr.; and Mills, George M., 3,452,451.
Perschy, James A., 3,478,223.
Pessin, Jacques H., 3,448,456.
Peters, Edward L., 3,447,379.
Peters, James; Clift, Mason A., Jr.; Stagg, Theodore B., Jr.; and Davis, Francis E., Jr., 3,469,111.
Peters, John; and Grigor, James, 3,432,554.
Pohl, James E., 3,437,894.
Pohl, James E., 3,448,360.
Polk, Albert S., Jr., 3,482,403.
Popodi, Alfred E., 3,440,443.
Popoff, Andrew, 3,436,657.
Potter, Richard R., 3,420,174.
Powner, Larry D., 3,436,754.
Press, Jack J.; and Naimer, Jack, 3,441,063.
Price, Robert S., 3,433,687.
Pure, Samuel; and Wallace, John D., 3,469,229.
Rabenhorst, David W., 3,431,854.
Rabenhorst, David W., 3,434,255.
Rabenhorst, David W., 3,467,992.
Rathbun, Harvey L., Jr., 3,421,137.
Reams, William H., 3,440,960.
Redmond, Peter M.; and Waszak, Lawrence, 3,447,033.
Rendler, Norbert J., 3,471,935.
Resnick, Israel, 3,477,967.
Reuss, Max L., Jr., 3,474,361.
Ribeiro, Sergio T.; and Ujhelyi, Gabor K., 3,433,554.
Riblet, Henry B.; and Schroader, Irvin H., 3,456,350.
Rice, George B.; and Dow, Robert L., 3,420,695.
Richardson, Alfred W., 3,478,588.
Riggin, Lance E.; Willis, Donald R.; and Wuster, Walter L., 3,487,167.
Risher, Donald B., 3,460,574.
Robbins, Roland W., Jr., 3,437,065.

Rosfelder, Andre M., 3,434,551.
Rosfelder, Andre M., 3,436,914.
Rosfelder, Andre M., 3,473,688.
Roshon, John R.; and Green, Charles E., 3,466,924.
Rowlands, Richard O.; and Rohm, Edward L., 3,457,508.
Rubin, Norman N., 3,449,581.
Rupprecht, Hans Stephan; and Pilkuhn, Manfred, 3,479,613.
Russell, Allan M., 3,437,915.
Saletzki, Jacob S.; and Reichel, Richard F., 3,453,993.
Sapp, Robert H., 3,420,989.
Schimitschek, Erhard J.; Nehrich, Richard B., Jr.; and Trias, John A., 3,450,641.
Schindler, Albert I.; and Williams, Conrad M., 3,472,708.
Schloss, Fred, 3,425,265.
Schmidt, Robert L., 3,456,512.
Scholl, James E., 3,432,977.
Schrader, Malcolm E.; and Lerner, Irving, 3,420,726.
Schulman, Marvin, 3,466,932.
Schwartz, Joseph I., 3,456,484.
Seamone, Woodrow, 3,448,947.
Sery, Robert S.; and Gordon, Daniel I., 3,477,883.
Sharkey, Robert T.; and Westerman, Ralph L., 3,424,855.
Shenker, Henry; Moore, William J.; and Swiggard, Edward M., 3,457,409.
Sherman, Robert, 3,458,081.
Shostak, Arnold A., 3,434,138.
Sickman, Darrell V.; and Kamlet, Mortimer J., 3,461,112.
Siemietkowski, John S.; and Antkiewicz, Walter D., 3,478,580.
Silver, Wallace E.; and Sherman, Jack, 3,457,329.
Silvia, Denis A.; Ramsey, Richard T.; and Spencer, John H., 3,430,564.
Simon, Walter, 3,474,354.
Singer, Edward N., 3,474,235.
Singleton, Robert J., 3,479,645.
Sipes, William A., 3,439,531.
Sjoblom, Jorma J., 3,433,196.
Skorup, Gordon E., 3,450,890.
Smith, E. Quimby, Jr., 3,430,445.
Smith, Lloyd H., 3,473,366.
Smith, Robert Eugene, 3,480,520.
Southerland, Arthur, Jr.; Cirer, Frank H.; and Anderson, Alfred G., 3,480,157.
Spiegel, Walter J.; and Tamburro, Peter J., 3,432,612.
Spindler, Clinton L., 3,423,942.
Springston, George B., Jr., 3,475,846.
Stanley, William C.; Harris, William G., Jr.; and McLeroy, Edward G., Jr., 3,478,308.
Staples, John P., 3,449,635.
Stark, Marvin W., 3,423,943.
Stevens, Daniel A., 3,430,072.
Stone, Albert Rivington, 3,474,289.
Stresau, Richard H. F., 3,430,563.
Strickland, Alvah T.; and Wilson, William G., 3,425,434.
Stuart, Charles J., Jr., 3,466,782.
Sumpter, Rudolph H., 3,477,295.
Swaim, Frank H., 3,420,177.
Swaim, Frank H., 3,479,476.
Swallow, Robert E.; and Miller, Jerry R., 3,420,175.
Sweetman, William G., 3,482,518.
Taylor, Randolph G., 3,430,087.
Taylor, Raymond A.; and Ehat, Raphael F., 3,458,827.
Taylor, Wallace M., Jr.; and Reece, Asa M., 3,440,993.
Terry, Cyrl W., 3,477,283.
Test, Robert L.; Baker, Hayward R.; and Nebelung, Raymond G., 3,457,881.
Tholey, Francis E. J.; and Marek, RobertD., 3,462,586.
Thomas, Edward V.; and Ransick, Thomas F., 3,448,713.
Thomas, John F.; and Ragot, Robert L., 3,424,121.
Thomas, John F.; and Keller, Karl H., 3,482,903.
Thompson, William H.; and Hunkeler, Edwin C., 3,456,541.
Thornhill, Alexander F., 3,440,535.
Thorsted, Kenneth G.; Renner, Louis C.; and Schmidt, Joseph A., 3,430,487.
Todd, Frederick H., 3,458,007.
Townsend, Miles A., 3,446,225.
Trott, Winfield James; and Radford, William E., 3,448,503.
Tucker, James W.; and Bradford, James N., 3,449,615.
Tudor, Sidney; Weisstuch, Aaron; and Davang, Samuel H., 3,447,969.
Tyler, Howard V.; and Gowan, Richard L., 3,454,788.
Tyler, Howard V.; and Gowan, Richard L., 3,454,789.
Uhrig, Edward O., 3,426,285.
Uram, Earl M., 3,429,287.
Uzunoglu, Vasil, 3,447,093.
Vanover, James L., 3,468,256.
Vencsky, David L.; and Moniz, William B., 3,446,060.
Vitale, Donald J.; Eagleson, Edwin W.; Harris, Thomas B.; and Menichelli, Vencent J., 3,461,801.
Vogel, Frederick David, 3,479,679.
Wales, Charles P., 3,431,480.
Wall, Leo A.; and Antonucci, Joseph M., 3,429,935.
Wallen, Albert E., 3,458,855.
Walsh, Leonard; and Graves, William F., 3,446,484.
Warren, Raymond W., 3,432,144.
Warren, Tom C., 3,468,487.
Watlington, Francis W., 3,448,432.
Watters, James W.; Farncomb, Robert E.; and Cziesla, Manfred J., 3,420,621.
Weimholt, James E., 3,437,035.
White, William D., 3,447,316.
Whitehouse, Harper J.; and Lindsay, George F., 3,458,694.
Whitten, Frank I., 3,446,469.
Wieder, Harry H., 3,435,323.
Wilcox, George E., 3,436,539.
Williams, Ira E., 3,468,280.
Williams, Kenneth G., 3,430,149.
Williams, William W., 3,484,571.
Wilson, Burton J., 3,432,350.
Wilson, Burton J., 3,462,309.
Wilson, Geoffrey L., 3,441,904.
Wilson, Louis; and Hogrefe, Arthur F., 3,421,067.
Wilson, Roger E., 3,486,867.
Wise, Charles M., 3,456,503.
Wolff, Hanns H., 3,420,953.
Wolff, Hanns H., 3,479,454.
Wong, Howard F.; Liddell, Donald W.; and Vollmer, William F., Jr., 3,421,151.
Woodward, Wilmer C., 3,458,197.
Worcester, Francis J.; Shapiro, Michael D.; and Duda, James L., 3,468,214.
Wright, Hubert A., Jr., 3,458,858.
Wyatt, Theodore, 3,480,232.
Zall, David M., 3,436,185.
Zall, David M., 3,436,189.
Zavod, Pierce H., 3,454,752.
Zavod, Pierce H.; and Ulrich, John L., 3,478,769.
Zenftman, Henryk; and Calder, Donald, 3,426,013.
Zielinski, Frederick C.; and Williams, Warren A., 3,424,992.
Zink, Robert D., 3,446,069.

Treasury: *See*—
Neisser, Philip B.; and Boley, Morris V., 3,466,157.

United States Pipe and Foundry Company: *See*—
Beyer, John H.; and Boyles, Alfred, 3,464,253.
Boyles, Alfred, 3,440,868.
Schuh, Arthur E., 3,456,712.
Shupe, James R., 3,474,999.

United States Rubber Company: *See*—
Kiff, Ben W., 3,450,754.
Limbert, Frank J.; and Paddock, Charles F., 3,435,096.

United States Steel Corporation: *See*—
Allen, Robert M., 3,438,822.
Anderson, Robert L.; and Rohrig, John M., 3,479,958.
Ashbaugh, Donald L., 3,476,370.
Ashworth, James E.; and Bartz, August L., 3,460,372.
Bailey, John T., 3,484,672.
Bales, John W., Jr.; and Giunta, Joseph S., 3,448,771.
Bargfeldt, Howard G., 3,482,426.
Barnhart, Thomas F.; and Rueckl, Roger L., 3,469,961.
Baum, Werner H.; Crist, Joseph G.; and Nagle, Elliott V., 3,428,414.
Behrendt, Horst H., 3,452,276.
Belcher, Lorne J.; and Rinkus, Robert G., 3,476,889.
Bhatt, Harshad J.; and Swann, Peter R., 3,446,333.
Bode, Charles H., Jr.; and Wusseles, Peter J., 3,476,373.
Boodman, Norman S.; Perkins, George W.; and Walter, Jack W., 3,441,497.
Box, William A.; and Rall, Waldo, 3,467,058.
Braught, John D., 3,450,302.
Britcher, Harry H., Jr.; and Gallucci, Francis, 3,459,312.
Bromley, Kenneth W., 3,446,415.
Carter, Daniel T., 3,483,113.
Chang,Yi-Chung; and Colijn, Hendrik, 3,433,472.
Coleman, Homer B.; and Gardner, Robert E., Jr., 3,432,396.
Colijn, Hendrik, 3,476,374.
Condrac, Robert F., 3,476,414.
Connelly, Eugene B., 3,460,220.
Crist, Joseph G.; Manganaro, Carl R.; and Nagle, Elliott V., 3,455,852.
Cuscino, Thomas A., 3,428,112.
Davie, William R., 3,476,577.
De Wulf, Maurice J., 3,476,157.
Dewez, Fernand J., Jr.; and Steiner, John E., 3,467,808.
Doerr, Robert C., 3,457,758.
Douty, Donald L., 3,446,361.
Douty, Donald L., 3,482,731.
Doyle, Joseph E.; and Seiss, William F., 3,471,768.
Durham, Harry B., 3,457,828.
Facer, Walter K.; and Rigo, Jane H. M., 3,476,081.
Fahey, John R., 3,471,113.
Feinman, Jerome, 3,448,761.
Fenstermaker, Lloyd H.; and Yu, Quin Shen, 3,478,407.

Foldessy, Justin E., 3,447,591.
Frostick, Harold G., 3,471,673.
Fulginiti, William P.; and Yu, Quin Shen, 3,471,039.
Gallucci, Francis, 3,448,789.
Grange, Raymond A., 3,423,252.
Grange, Raymond A., 3,459,599.
Grosko, John A., 3,480,186.
Hamilton, Merrill V.; and Klahn, William R., 3,460,551.
Harter, John W., 3,459,156.
Hendrickson, George H., 3,479,715.
Henry, Edwin B., Jr.; Schindler, Donald G.; and Zemberry, William L., 3,430,485.
Hobe, Harold E., 3,443,701.
Hollingsworth, Winfred O., 3,425,733.
Hornak, John N., 3,459,537.
Hunter, Darrell L.; and Siple, James C., 3,459,587.
Johnson, Robert L., 3,475,779.
Junker, Thomas J., 3,471,521.
Keene, Robert J.; and Szumilas, Raymond S., 3,448,788.
Kelly, Calvin E.; and Nicely, Thomas E., 3,467,399.
Kennedy, Frank, 3,443,523.
Kennedy, Frank, 3,443,527.
Kennedy, Frank, 3,443,800.
Kennedy, George E.; and Manganello, Samuel J., 3,475,812.
Ketter, Paul L., 3,452,271.
Kitchel, Fred L., 3,471,137.
Kolb, William A.; and Wilson, James H., 3,449,566.
Kortenhoven, Peter, 3,472,064.
Kotyk, Michael, 3,436,808.
Kramer, Larry J., 3,483,098.
Lo Presti, Samuel J.; and Mohney, Wilfred F., 3,451,898.
Lyman, Richard E., 3,430,644.
Lyman, Richard E., 3,439,072.
Lyman, Richard E., 3,480,376.
Maide, Orland M., 3,482,827.
Masciantonio, Philip X.; and Schelling, James H., 3,431,266.
Mazur, Chester C., 3,475,962.
McCullough, Marshall J., 3,425,447.
McDermott, John F., 3,458,919.
McKay, Joseph, 3,425,484.
Miller, John E., 3,459,363.
Miller, Reuben, 3,420,513.
Morgan, Marcus S.; and Simon, Albert W., 3,441,574.
Murray, Thomas P., 3,422,678.
Murray, Thomas P., 3,483,378.
Murray, William L., 3,484,841.
Nance, Russell E., 3,420,143.
Nickola, Richard A.; and Spare, Gordon T., 3,458,365.
Nickola, Richard A.; and Shaffer, Thomas F., Jr., 3,461,000.
O'Brien, Francis E.; and Kuhnel, Alexander H., 3,448,278.
Orr, Howard S.; and Reinhardt, Anthony D., 3,422,656.
Orr, Howard S., 3,451,466.
Owens, David E., 3,425,182.
Redman, William J.; and Schmieman, Thomas E., 3,427,988.
Robinson, John E., 3,475,777.
Salmi, Robert W., 3,426,897.
Scott, Jay R., 3,440,846.
Shekels, Harold F., 3,425,676.
Smith, Eugene E.; and Cannon, Robert H., 3,459,082.
Snow, Roland B., 3,484,236.
Stoeckel, Albert L., 3,441,190.
Stoll, Raymond C., 3,455,012.
Stuart, Donald J., 3,475,874.
Sulewsky, James E., 3,483,947.
Sullivan, James P.; and Tucker, Joseph F., 3,458,607.
Sumansky, Ladislaus Walter, 3,459,047.
Teplitz, Alfred, 3,443,787.
Tiskus, John R.; and Vey, Regis A., 3,441,818.
Tweedy, Robert H., 3,432,184.
Vrable, John B., 3,461,051.
Vrable, John B., 3,484,349.
Wilson, James H., 3,457,985.
Wilson, James H., 3,480,073.
Wovcha, Sidney N., 3,432,160.
Zemberry, William L., 3,476,013.
Zemberry, William L., 3,479,743.

United States Sugar Corporation: *See*—
Sexton, Joseph P., Jr., 3,456,429.

United States Testing Company, Inc.: *See*—
Streisinger, Erwin, 3,450,466.

United States Time Corporation, The: *See*—
Grohoski, Theodore S., 3,448,575.
Meitinger, Heinz; and Egger, Josef, 3,462,942.
Pinard, Kenneth E., 3,466,934.
Smythe, Frederic H., Jr., 3,483,693.
Tilse, Wilhelm; and Weise, Rolf, 3,477,223.
Wiesner, Leo, 3,425,283.

United States Tobacco Company: *See*—
Jurczenia, Edward T., 3,470,930.

United Steel and Wire Company: *See*—
Close, Garth, 3,437,177.
Close, Garth, 3,446,315.
Close, Garth, 3,456,763.
Close, Garth, 3,473,484.
Close, Garth, 3,476,215.
Ruttenberg, Harold J.; and Close, Garth, 3,437,176.

United Steel Companies Limited, The: *See*—
Adcock, Joseph N., 3,421,419.
Halliday, Iain M. D., 3,482,621.
McGee, Lawrence, 3,483,300.

United Systems Corporation: *See*—
Petrohilos, Harry, 3,441,846.

United Wire Works Limited, The: *See*—
Cumming, Ian George, 3,464,461.

United-Carr Incorporated: *See*—
Adams, James R., 3,427,693.
Addis, David J.; Brown, Walter R. J.; and Osman, Martin S., 3,480,924.
Arnao, Joseph F.; Fitz Gerald, Robert E.; and Garcia, Armando J., 3,460,088.
Bachman, Walter S., Jr.; Erhardt, William A., Jr.; and Surprenant, Edward V., 3,461,765.
Bowley, Thomas William; and Smith, Leslie Haynes, 3,421,136.
Bowley, Thomas William; and Robertson, William, 3,452,323.
Bramhall, Otis H.; and Jess, Thurman S., 3,477,054.
Brown, Walter R. J., 3,429,982.
Danico, Henry F.; and Wilhelmi, Julius B., 3,477,090.
Duffy, William B., 3,444,774.
Fitz Gerald, Robert E., 3,426,312.
Hayden, Rodney, 3,436,701.
Hayden, Rodney, 3,444,515.
Hayden, Rodney; and Guarasci, Mario, 3,470,531.
Hayden, Rodney, 3,480,944.
Heath, Clarence Willans, 3,436,717.
Jansson, Arnold O., 3,461,637.
Kirby, Edward, 3,431,545.
Knowlton, Edward A., 3,425,473.
Krol, Stanley J., 3,426,317.
McKee, William H., 3,457,764.
Olson, Conrad, 3,435,792.
Parkin, Leslie; and Rigley, Brian, 3,425,723.
Parkin, Leslie; and Andrews, Sydney Alan, 3,426,817.
Parkin, Leslie, 3,451,455.
Parkin, Leslie, 3,459,096.
Pearson, Arthur Stanley; and Ford, David Julian, 3,476,008.
Seckerson, Clifford A., 3,437,298.
Seckerson, Clifford Alexander, 3,475,794.
Shears, Stuart T., 3,435,491.
Shears, Stuart T.; and Van Buren, Harold S., Jr., 3,451,066.
Shears, Stuart T., 3,469,424.
Tweed, Rexford E., 3,459,505.
van Buren, Harold S., Jr., 3,436,108.
Van Horssen, Arden D.; Habig, Wydell W.; Shortell, Raymond E.; and Smiley, George C., 3,480,722.
Watkins, John A.; and Lang, Elliot R., 3,441,927.
Wright, Malor; and Healy, James W., 3,436,330.

United-Greenfield Corporation: *See*—
Strickland, Royce M., 3,477,076.

Unitek Corporation: *See*—
Gilbert, John A., 3,428,882.
Gilbert, John A., 3,441,708.
Johnson, Frank W., 3,422,535.
Laub, Joseph L.; and Gilbert, John A., 3,427,501.
Laub, Joseph L.; and Mansour, Momtaz Nosshi, 3,430,834.
Mansour, Momtaz Nosshi, 3,421,380.
Mayne, Warren R.; and Johnson, Frank W., 3,458,935.
Mulcahy, John V., 3,444,347.
Pletcher, Erwin C., 3,444,621.
Sunter, Robert A., 3,468,028.

Unitog Company: *See*—
Flanner, Walt J., Jr., 3,486,924.

Unitrak Corporation: *See*—
Knowles, Squire, 3,470,640.

Unitrode Corporation: *See*—
Dixon, Lloyd H., Jr., 3,487,231.
Schuler, Chester L.; Margolien, David H.; and Blatt, Fred M., 3,452,267.
Simon, Edward, 3,458,781.

Unittool Punch & Die Co., Inc.: *See*—
Deni, Frank; Putnam, Eric F.; and White, Lynn G., 3,461,762.

Unity Railway Supply Co., Inc.: *See*—
Panaia, Robert V.; and MacDonnell, Robert W., 3,443,849.

Universal American Corporation: *See*—
Bullard, Calvin P.; and Luginbuhl, David E., 3,431,600.
Dellinger, Carl L., 3,427,081.
Fender, Norman N., 3,443,450.
Fender, Norman N., 3,459,065.
Leonard, William L.; and Leadbeater, Howard W., 3,441,287.

Universal Button Company, Division of Talon, Inc.: *See*—
Schmidt, Erich A., 3,420,427.

Universal Controls Corporation: *See*—
Gilpin, William V., 3,438,397.

Gilpin, William V., 3,444,724.
Long, Glen F., 3,448,218.
Universal Corrugated Box Machinery Corporation: *See—*
Lopez, John, 3,481,598.
Universal Drafting Machine Corporation: *See—*
Little, Charles H.; Kliever, Waldo H.; and Weimels, Eugene L., 3,473,157.
Universal Electric Company: *See—*
Postema, James R., 3,440,460.
Universal Filters Inc.: *See—*
Rosaen, Nils O., 3,425,557.
Rosaen, Nils O., 3,425,558.
Rosaen, Nils O., 3,438,498.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., 3,465,413.
Universal Filtration Inc.: *See—*
Baldwin, Beecher B., 3,477,582.
Universal Fluid Dynamics Company: *See—*
Burritt, Burnell O., 3,441,263.
Universal Folding Box Co., Inc.: *See—*
Keating, Martin, Jr., 3,473,655.
Universal Highway (Contracting) Limited: *See—*
Harding, John; Placzek, Peter; and Campbell, Sidney Glenroy, 3,477,352.
Universal, Inc.: *See—*
Jacobson, Bernhard E., 3,443,679.
Universal Instruments Corporation: *See—*
Ackerman, Daniel W.; and Holmes, Robert H., 3,442,430.
Ackerman, Daniel W.; Holmes, Robert H.; and Ragard, Phillip A., 3,455,493.
Ragard, Phillip A.; and Welch, Robert F., 3,435,857.
Zemek, Albert W., 3,421,284.
Universal Interloc, Inc: *See—*
Cardeiro, Charles P., 3,430,129.
Cardeiro, Charles P., 3,440,525.
Universal Machine Co., Inc.: *See—*
Carter, Paul H.; Marion, Thomas E.; Morse, Raymond L.; and Doty, William T., 3,460,317.
Marion, Thomas E., 3,478,627.
Universal Manufacturing Company, Inc.: *See—*
Bernau, William A., 3,465,977.
Bernau, William A.; and Yerman, Emil A., 3,465,978.
Fahrbach, Rudolf, 3,448,935.
Fahrbach, Rudolf, 3,459,385.
Wyatt, Harold M., 3,471,953.
Universal Manufacturing Corporation: *See—*
Miller, Imrich M., 3,474,371.
Moyer, Oscar E., 3,475,579.
Universal Maschinenfabrik Dr. Rudolf Schieber G.m.b.H.: *See—*
Kuhnert, Gottfried, 3,474,642.
Universal Metal Hose Company: *See—*
Raisch, Lee S., 3,486,357.
Universal Moulded Fiber Glass Corp.: *See—*
Lange, Henry F.; and Phipps, Harold E., 3,436,114.
Universal Oil Products Company: *See—*
Altwicker, Elmar R., 3,450,764.
Altwicker, Elmar R., 3,480,635.
Altwicker, Elmar R.; and Michaels, Leo, 3,487,110.
Asselin, George F., 3,422,163.
Atwicker, Elmar R., 3,453,329.
Berg, Roy C., 3,484,498.
Berger, Charles V., 3,484,497.
Betz, Erwin Carl, 3,486,841.
Bloch, Herman S.; and Schmerling, Louis, 3,445,445.
Bloch, Herman S., 3,448,165.
Bloch, Herman S., 3,448,166.
Bloch, Herman S., 3,458,276.
Bloch, Herman S., 3,459,822.
Bloch, Herman S., 3,474,023.
Bloch, Herman S., 3,474,156.
Borst, William B., Jr., 3,456,033.
Borst, William B., Jr., 3,469,949.
Borst, William B., Jr., 3,471,398.
Borst, William B., Jr., 3,475,324.
Borst, William B., Jr., 3,477,946.
Borst, William B., Jr., 3,481,860.
Borst, William B., Jr., 3,487,008.
Boscarino, Frank, 3,465,668.
Boyd, David M., 3,436,337.
Boyd, David M., 3,464,895.
Boyd, David M., Jr.; and Rockey, Kenneth O., 3,428,179.
Boyd, David M., Jr., 3,458,691.
Brennan, John F., 3,478,123.
Broughton, Donald B., 3,422,006.
Broughton, Donald B., 3,433,735.
Broughton, Donald B., 3,435,087.
Broughton, Donald B., 3,470,087.
Burdock, Joseph L.; and Cioffi, Angelo J., 3,483,678.
Carson, Don B.; and Lengemann, Robert A., 3,426,092.
Carson, Don B., 3,428,429.
Carson, Don B., 3,428,549.
Carson, Don B., 3,442,793.
Carson, Don B., 3,450,785.
Carson, Don B., 3,470,090.
Carson, Don B., 3,475,322.
Cyba, Henryk A., 3,422,016.
Cyba, Henryk A., 3,428,469.
Cyba, Henryk A., 3,428,700.
Cyba, Henryk A., 3,445,422.
Cyba, Henryk A., 3,445,498.
Cyba, Henryk A., 3,446,808.
Cyba, Henryk A.; and Sparks, Allen K., 3,455,950.
Cyba, Henryk A., 3,474,125.
Cyba, Henryk A., 3,478,096.
Cyba, Henryk A., 3,480,698.
Cyba, Henryk A., 3,484,374.
Cyba, Henryk A., 3,484,504.
Cyba, Henryk A., 3,484,505.
De Graff, Richard R., 3,445,378.
De Graff, Richard R.; and Perga, Martin W., 3,445,381.
De Graff, Richard R., 3,445,536.
De Graff, Richard R.; and Perga, Martin W., 3,466,344.
De Graff, Richard R.; and Perga, Martin W., 3,466,345.
De Graff, Richard R.; and Perga, Martin W., 3,466,346.
De Graff, Richard R., 3,475,287.
De Graff, Richard R., 3,481,859.
de Rosset, Armand J., 3,426,089.
De Young, Edwin L., 3,420,905.
Derosset, Armand J., 3,457,188.
Derosset, Armand J., 3,457,189.
Di Noia, Emanuel J.; and Breunich, Theodore R., 3,421,370.
Di Noia, Emanuel J., 3,436,713.
Dombro, Robert A., 3,426,066.
Dombro, Robert A., 3,450,771.
Dombro, Robert A., 3,452,083.
Dombro, Robert A., 3,459,813.
Dombro, Robert A., 3,483,993.
Dundel, Morris; and Eckhardt, Daniel J., 3,474,136.
Dunkel, Morris, 3,445,508.
Dunkel, Morris; and Yafuso, Masao, 3,446,822.
Fenske, Ellsworth R.; and McLaughlin, James H., 3,463,613.
Fickel, Ronald G., 3,455,815.
Fishel, Norman A., 3,426,090.
Fishel, Norman A., 3,428,704.
Fishel, Norman A., 3,477,964.
Fishel, Norman A., 3,477,965.
Fortman, John T., 3,471,397.
Fournier, Paul W., 3,483,992.
Gantt, James E.; and Sulzbach, Thomas L., 3,437,706.
Gantt, James E., 3,437,708.
Gantt, James E.; and Borst, William B., Jr., 3,477,915.
Gatsis, John G.; and Gleim, William K. T., 3,449,452.
Gatsis, John G.; and Gleim, William K. T., 3,449,454.
Gatsis, John G., 3,453,206.
Gatsis, John G., 3,457,164.
Gerhold, Clarence G.; and Broughton, Donald B., 3,456,028.
Gleim, William K. T., 3,421,831.
Gleim, William K. T.; and O'Hara, Mark J., 3,429,801.
Gleim, William K. T., 3,432,442.
Gleim, William K. T.; Wackher, Richard C.; and Ramquist, Frederick C., 3,465,055.
Gleim, William K. T., 3,474,029.
Gleim, William K. T., 3,483,117.
Gleim, William K. T.; and Gatsis, John G., 3,483,118.
Hallman, Newt M., 3,428,696.
Hallman, Newt M., 3,429,803.
Hallman, Newt M.; and Parker, Robin J., 3,481,864.
Hamblin; Robert J. J., 3,437,584.
Hansen, Andrew C., 3,473,519.
Hansen, Andrew C., Jr., 3,445,379.
Hansen, Andrew C., Jr., 3,461,062.
Hardison, Leslie C., 3,467,491.
Hardison, Leslie C., 3,473,893.
Hardison, Leslie C., 3,476,176.
Hardison, Leslie C., 3,480,384.
Hardison, Leslie C.; and Hable, William L., 3,484,189.
Haufe, Ted B.; and Uitti, Kenneth D., 3,457,166.
Hayes, John C., 3,442,796.
Hayes, John C., 3,448,036.
Hayes, John C., 3,481,861.
Heinze, Walter W.; Jones, Evan A.; and Carson, Don B., 3,476,283.
Hensel, Walter C., 3,442,138.
Hervert, George L., 3,456,635.
Hervert, George L., 3,467,728.
Hervert, George L., 3,471,413.
Hervert, George L.; and Weber, Harold C., 3,472,632.
Hervert, George L., 3,477,210.
Hilfman, Lee, 3,442,821.
Hilvman, Lee, 3,437,603.
Hoekstra, James, 3,423,180.
Hoekstra, James, 3,432,564.

Hoekstra, James, 3,433,842.
Hoekstra, James, 3,433,843.
Hoekstra, James, 3,457,046.
Hoekstra, James, 3,460,913.
Hopkinson, William C.; and Pecoraro, Ralph R., 3,485,162.
Hughes, James C.; and De Palma, Ted V., 3,481,317.
Hunsaker, Vero L., 3,430,823.
Jones, Edwin K., 3,437,705.
Jones, Edwin Kermit, 3,432,567.
Jones, Evan A., 3,470,086.
Kahn, Samuel, 3,445,538.
Kahn, Samuel, 3,462,507.
Kahn, Samuel, 3,467,727.
Kahn, Samuel J., 3,433,847.
King, Jerome, 3,437,669.
King, Jerome, 3,437,670.
Kuchar, Paul J., 3,437,585.
Kuchar, Paul Joseph, 3,429,944.
Latos, Edwin J., 3,451,929.
Leopard, James G., 3,469,971.
Lester, George R., 3,425,933.
Lester, George R., 3,428,539.
Lester, George R., 3,436,433.
Lester, George R., 3,436,434.
Lester, George R., 3,445,539.
Lester, George R., 3,457,154.
Lester, George R., 3,458,589.
Lester, George R., 3,471,586.
Lester, George R.; and Louvar, Cecelia J., 3,484,499.
Levy, Joseph, 3,481,940.
Liebman, Warren S.; Carson, Don B.; and Dolejs, Charles A., 3,422,848.
Louvar, James J., 3,480,533.
Lusskin, Robert M.; Backer, Frank; and Larson, John R., 3,423,371.
Maier, William H.; and Ward, Dennis J., 3,478,119.
McHarg, Robert E., 3,446,870.
Michalko, Edward, 3,428,572.
Michalko, Edward, 3,428,574.
Michalko, Edward, 3,437,604.
Mitsche, Roy T., 3,436,432.
Mitsche, Roy T., 3,463,744.
Mitsche, Roy T., 3,464,929.
Nelson, Edwin F., 3,477,941.
O'Hara, Mark J.; and Gleim, William K. T., 3,420,771.
O'Hara, Mark J., 3,453,219.
O'Hara, Mark J., 3,471,399.
Padrta, Frank G., 3,422,004.
Padrta, Frank G., 3,458,699.
Parker, Robin J., 3,451,922.
Parker, Robin J., 3,457,163.
Parker, Robin J., 3,470,085.
Paulson, Rueben E., 3,481,474.
Pearsall, Robert P., 3,483,974.
Pegg, Edward H. R., 3,447,289.
Penisten, Robert J.; and Atwater, Bennett L., 3,425,931.
Petersen, Alfred A., 3,477,570.
Pharis, Joe M., 3,456,031.
Pohlenz, Jack B., 3,479,279.
Pollitzer, Ernest L., 3,437,710.
Pollitzer, Ernest L., 3,442,966.
Pollitzer, Ernest L.; and Hilfman, Lee, 3,472,793.
Quesada, Camilo, 3,437,425.
Quesada, Camilo, 3,437,426.
Quesada, Camilo, 3,437,427.
Quesada, Camilo; and Neuzil, Richard W., 3,437,428.
Raymond, Robert F., 3,472,909.
Riedl, Fredrick J.; and Donaldson, George R., 3,457,162.
Rosenwald, Robert H.; Stedman, Russell F.; and Hughes, James C., 3,425,815.
Rosenwald, Robert H., 3,426,062.
Rosenwald, Robert H.; and Faust, Wayne J., 3,436,195.
Rosenwald, Robert H., 3,457,053.
Rosenwald, Robert H., 3,466,248.
Saunders, Harry C., 3,446,755.
Schmerling, Louis, 3,420,909.
Schmerling, Louis, 3,437,672.
Schmerling, Louis, 3,437,673.
Schmerling, Louis, 3,445,481.
Schmerling, Louis, 3,445,482.
Schmerling, Louis, 3,457,298.
Schmerling, Louis, 3,461,170.
Schmerling, Louis, 3,465,006.
Schmerling, Louis, 3,474,131.
Schmerling, Louis, 3,484,482.
Schrein, Marcus R., 3,446,608.
Scott, Norman H., 3,470,084.
Skala, Hertha; Broughton, Donald B.; De Rosset, Armand J.; and Lickus, A. Gregory, 3,437,601.
Sparks, Allen K.; and Dombro, Robert A., 3,426,044.
Sparks, Allen K., 3,470,257.
Sparks, Allen K.; and Dombro, Robert A., 3,480,668.
Sparks, Allen K., 3,481,978.
Steenber, Laurence R., 3,445,377.
Stephens, John H., 3,430,768.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth D., 3,461,061.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth Donald, 3,461,063.
Stine, Laurence O.; Schoenfeld, Jack R.; and Lengemann, Robert A., 3,472,758.
Storch, Dana H.; and Hallman, Newt M., 3,431,195.
Sulzbach, Thomas L., 3,437,707.
Thorne-Thomsen, Fletcher, 3,438,708.
Tomany, James P., 3,445,182.
Uitti, Kenneth D., 3,429,802.
Uitti, Kenneth D., 3,468,792.
Uitti, Kenneth D., 3,468,793.
Urban, Peter, 3,445,380.
Urban, Peter, 3,457,165.
Urban, Peter, 3,471,254.
Urban, Peter; and Brown, Kenneth M., 3,472,786.
Van Tassell, Harry M., 3,436,435.
Van Tassell, Harry M.; and Root, Wayne N., 3,476,656.
Van Tassell, Harry M., 3,487,013.
Vesely, Jerome A.; and Hervert, George L., 3,453,332.
Vesely, Jerome A.; and Schmerling, Louis, 3,481,989.
Vesely, Kenneth D., 3,457,190.
Vesely, Kenneth D., 3,472,791.
Vesely, Kenneth D.; and Michalko, Edward, 3,472,792.
Vickers, Anthony G., 3,470,088.
Ward, Dennis J., 3,428,701.
Watkins, Charles H., 3,455,814.
Whiton, Louis C.; and Peterson, Alfred Arnold, 3,432,994.

Universal Ordnance and Powder Company, The: *See—*
Moore, David Pelton, 3,463,683.

Universal Railway Devices Company: *See—*
Andonian, Pierre Joseph, 3,444,756.
Natschke, Eldred H.; and St. Pierre, Frederick W., 3,437,180.

Universal Refractories Corporation: *See—*
Thiem, Darold W.; Kramlich, C Wesley; and Ballmann, Richard B., 3,437,308.

Universal Rundle Corporation: *See—*
Alexander, Fred C., 3,461,194.

Universal Technical Products, Inc.: *See—*
Berger, Donald; and Berger, Sherwin N., 3,481,641.

Universal Techtronics, Inc.: *See—*
Stocker, Hermann W., 3,424,979.

Universal Testproducts, Inc.: *See—*
Muller, Don M.; Whittle, Lavar E.; and Chartrand, Victor, 3,485,093.

Universal Water Corporation: *See—*
Bennett, Albert L.; and Manjikian, Serop, 3,442,995.
Clark, George B.; and Manjikian, Serop, 3,430,770.
Manjikian, Serop, 3,483,282.

University Engineers, Inc.: *See—*
Sliepcevich, Cedomir M.; and Sheng, Henry P., 3,471,018.

University of California, The Regents of the: *See—*
Bettencourt, Thomas S., 3,455,448.
Brink, David L., 3,453,253.
Brown, Daniel M.; and McGowan, John A., 3,461,591.
Chancellor, William J., 3,470,669.
Coffelt, Robert J., 3,446,139.
Farquhar, Marilyn G.; Smith, Robert E.; and Barish, Emil Z., 3,420,130.
Fridley, Robert B., 3,470,737.
Gantz, William A., 3,445,156.
Gates, Lauren W.; Holtz, Nickolas A.; and Hill, Fredrick L., 3,422,953.
Gates, Lauren W.; and Schmidt, Lewis W., 3,436,902.
Gates, Lauren W., 3,437,220.
Goodman, Richard E.; Horning, Don O.; and Harlamoff, Anatol J., 3,446,062.
Hill, Fredrick L.; Gates, Lauren W.; and Friedel, William C., Jr., 3,429,440.
Hill, Fredrick L., 3,455,453.
Kolin, Alexander; and Vanyo, James P., 3,446,071.
Kolin, Alexander, 3,451,918.
Loeb, Sidney; Wasilewski, Stanley; Selover, Edward; and Balla, Andre, 3,446,359.
Lorenzen, Coby, 3,420,239.
Mei, Kenneth K., 3,460,150.
Richards, Sterling J., 3,439,450.
Severinghaus, John W., 3,424,664.
Snook, Russell A., 3,455,311.
Westheimer, Gerald; and Felsenstein, Lee, 3,453,437.

University of Glasgow The, University Court of the: *See—*
Miller, Neil S., 3,459,018.

University of Idaho Research Foundation, Inc.: *See—*
Clark, Calmar W., 3,482,159.

University of Illinois Foundation: *See—*
Blurton, Michael A. S., 3,483,361.
Frost, George Russey, 3,458,990.

Ingerson, Paul G., 3,457,528.
Nelson, Alvin I,; and Kwiat, Eugene V., 3,446,635.
Satterthwaite, Cameron B.; and Ries, Roger P., 3,479,576.
Speigelman, Solomon, 3,444,043.
Spiegelman, Soloman; and Haruna, Ichiro, 3,444,041.
Spiegelman, Solomon; Haruna, Ichiro; and Pace, Norman R., 3,444,042.
Spiegelman, Solomon, 3,444,044.

University of Iowa: *See—*
Flatt, Adrian E., 3,466,669.
Mc Callister, Joseph David; Mc Math, Allen M.; and Anderson, Darwin Arthur, 3,466,695.

University of Kentucky Research Foundation, The: *See—*
Ellis, John H.; and Miokiff, Valva C., 3,444,742.

University of Minnesota, The Regents of the: *See—*
Bacaner, Marvin B., 3,441,649.
Nakib, Ahmad A., 3,438,394.

University of Queensland, The: *See—*
Skerman, Victor Bruce Darlington, 3,438,690.

University of Strathclyde: *See—*
Ross, Donald S., 3,459,180.

University of Sydney, The: *See—*
Maguire, Mary Helen, 3,471,471.

University of Tennessee Research Corporation, The: *See—*
Anandam, Ernest J., 3,451,894.
Morgan, Arthur H., 3,463,212.
Morgan, Arthur H., 3,473,304.

University of Toronto, The Governors of the: *See—*
Crawley, John F.; and Abelseth, Melvin Kenneth, 3,423,505.

University of Utah: *See—*
Belnap, Gordon E., 3,483,574.
Brown, Wayne S.; and Partridge, William S., 3,463,719.
Giddings, John C., 3,449,938.

Univis Inc.: *See—*
Miller, Charles P., 3,431,593.
Rudd, Milo O.; and Woronoff, Alexander M., 3,431,688.

Uniweld Products, Inc.: *See—*
Brennen, Ronald F., 3,423,558.
Brennen, Ronald F., 3,423,560.

Unkefer, Robert J., to Lockheed Aircraft Corporation. Testing and sorting apparatus for batteries. 3,480,140, 11-25-69, Cl. 209-73.

Unno, Yutaka: *See—*
Tanaka, Hozumi; Hanabusa, Minoru; Goshima, Kazuaki; Unno, Yutaka; and Kajihara, Sadaji,3,450,505.

Uno, Fumio: *See—*
Uno, Seiji; Kazama, Seiji; and Uno, Fumio,3,431,243.

Uno, Naoyuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera through the lens light measuring system. 3,470,806, 10-7-69, Cl. 95-42.

Uno, Naoyuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera through the lens light measuring system. 3,470,807, 10-7-69, Cl. 95-44.

Uno, Naoyuki; Sakazaki, Tadazumi; and Suzuki, Minoru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera light response system. 3,451,323, 6-24-69, Cl. 95-42.

Uno, Naoyuki: *See—*
Suzuki, Minoru; and Uno, Naoyuki,3,470,805.
Suzuki, Minoru; and Uno, Naoyuki,3,486,434.

Uno, Norihiro: *See—*
Nomura, Hiroaki; Sugimoto, Keiichi; and Uno, Norihiro,3,427,315.

Uno, Seiji; Kazama, Seiji; and Uno, Fumio, to Teijin Limited. Process for preparation of poly,ethylene terephthalate, from compressed terephthalic acid. 3,431,243, 3-4-69, Cl. 260-75.

Uno, Tetsuo: *See—*
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru,3,420,744.
Noguchi, Yuichi; Uno, Tetsuo; Kubota, Yoshita; and Hosoda, Hiroshi,3,436,308.

Unrue, John E., Jr.: *See—*
Holman, Erwin W.; and Unrue, John E., Jr.,3,471,657.

Unruh, Cornelius C.: *See—*
Borden, Douglas G.; Unruh, Cornelius C.; and Merrill Stewart H.,3,453,237.

Unruh, Ernest A. Internal safety wheel for pneumatic tires. 3,420,288, 1-7-69, Cl. 152-158.

Unruh, Willis O., to Honeywell Inc. Optical pickoff means for deriving signals indicative of deviation of rotor pole from spin axis. 3,422,686, 1-21-69, Cl. 74-5.6

Unter, Robert K.: *See—*
Beckman, Melvin H.; Unter, Robert K.; and Wald, Samuel K.,3,434,263.

Unter, Robert K., to Keystone Consolidated Industries, Inc. Locking means for trailer couplings. 3,467,409, 9-16-69, Cl. 280-513.

Unter, Robert K., to Keystone Steel & Wire Company. Key construction and key ring. 3,481,168, 12-2-69, Cl. 70-408.

Unterberg, William J.: *See—*
Glover, Wayne H.; Southworth, Robert K.; Rasmussen, David E.; Unterberg, William J.; and Louden, Max,3,439,188.

Unterschuetz, Zdzislaw; Naruszewicz, Eustachy; and Kaus, Tadeusz. Method of and apparatus for the descaling of metals. 3,451,849, 6-24-69, Cl. 134-1.

Unterstenhoefer, Leo, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for the continuous production of a foamed resins. 3,486,862, 12-30-69, Cl. 23-285.

Unterstenhoefer, Leo: *See—*
Raichle, Ludwig; Werminghausen, Bernhard; and Unterstenhoefer, Leo,3,446,122.

Unterstenhofer, Gunter: *See—*
Heiss, Rudolf; Bocker, Ernst; Behrenz, Wolfgang; and Unterstenhofer, Gunter,3,470,299.
Heiss, Rudolf; Hahn, Willi; Behrenz, Wolfgang; and Unterstenhofer, Gunter,3,437,684.
Ugi, Ivar; Fetzer, Uwe; Unterstenhofer, Gunter; Behrenz, Wolfgang; Frohberger, Paul-Ernst; and Scheinpflug, Hans,3,422,190.

Untiedt, Miles E., to Brunswick Corporation. Cellular billiard table bed with ball return track. 3,455,551, 7-15-69, Cl. 273-6.

Untz, Robert W.: *See—*
Grawey, Charles E.; Koch, Keith E.; Nelson, David V.; and Untz, Robert W.,3,486,317.

Uoda, Hidetaka: *See—*
Osaka, Matajiro; Uoda, Hidetaka; Horii, Shigeo; and Okuda, Minoru,3,442,605.

Uozumi, Sumio: *See—*
Ohya, Minoru; and Uozumi, Sumio,3,425,300.

Up-Right, Inc.: *See—*
Fisher, Robert E.; Kofman, Rijkent W.; Reichert, Ernest D.; and Visser, Reinold H., 3,432,916.
Johnson, Wallace J. S.; Fisher, Robert E.; and Claxton, Gerald L., 3,420,046.
Johnson, Wallace J. S.; and Fisher, Robert E., 3,454,131.
Johnson, Wallace J. S.; and Fisher, Robert E., 3,460,327.
Johnson, Wallace J. S.; and Fisher, Robert E., 3,469,343.
Johnson, Wallace J. S., 3,479,781.

Updegraff, Alfred V.; and Beyer, Lawrence A., to Haynes Manufacturing Company. Container handle. 3,463,536, 8-26-69, Cl. 294-31.2

Updegraff, Billy P., to United States of America, Army, and/or Federal Aviation Administration. Small animal restraining box. 3,428,030, 2-18-69, Cl. 119-96.

Updegraff, Edward R. Method for offset printing. 3,451,337, 6-24-69, Cl. 101-401.1

Updegrave, William J. Dental instruments for standardizing the bisecting-angle technique for periapical radiography. 3,473,026, 10-14-69, Cl. 250-70.

Updike, Stanley H.; Cherrie, James M.; and Michaels, William A., to TRW Inc. Valve rotating device. 3,421,734, 1-14-69, Cl. 251-337.

Updike, Stanley H.; and Michaels, William A., to TRW Inc. Valve spring retainer and valve stem oil shield assembly and method of assembly. 3,459,166, 8-5-69, Cl. 123-188.

Updyke, Kenneth W.; and Friede, Allan J., to Caterpillar Tractor Company. Governor override for engine starting. 3,485,228, 12-23-69, Cl. 123-179.

Upham, George B.; Mayer, Fernand; and Louis, Georges, to Recherches et Mecanique (R.E.M.) Societe Anonyme. Mixing apparatus. 3,424,440, 1-28-69, Cl. 259-171.

Upham, Wesley B., to Lubrizol Corporation, The. Method for phosphating ferrous metals. 3,458,364, 7-29-69, Cl. 148-6.15

Uphaua, Lee F. Portable collapsible backstop. 3,475,025, 10-28-69, Cl. 273-25.

Upjohn Company, The: *See—*
Abercrombie, Lawrence W.; Saaty, Nabil N.; and Sayigh, Adnan A. R., 3,467,605.
Alway, Clayton D., 3,472,952.
Anthony, William C.; and Ursprung, Joseph J., 3,461,461.
Anthony, William C.; and Szmuszkovicz, Jacob, 3,470,204.
Anthony, William C.; and Szmuszkovicz, Jacob, 3,470,205.
Argoudelis, Alexander D., 3,448,097.
Argoudelis, Alexander D.; Grady, Joseph E.; and Sayer, Gordon C., 3,476,738.
Argoudelis, Alexander D.; and Pyke, Thomas R., 3,476,857.
Beal, Philip F., III; Lincoln, Frank H., Jr.; and Pike, John E., 3,435,053.
Birkenmeyer, Robert D., 3,435,025.
Birkenmeyer, Robert D.; and Brignall, Thomas W., 3,455,900.
Birkenmeyer, Robert D.; Kagan, Fred; Magerlein, Barney J.; and Schneider, William P., 3,461,207.
Birkenmeyer, Robert D., 3,475,407.
Bloss, Ronald E., 3,482,023.
Buss, David R., 3,441,559.
Campbell, J Allan; and Babcock, John C., 3,466,276.
Dankert, Harry S.; and Geverink, Henry J., 3,447,995.
Duncan, Gordon W.; and Lednicer, Daniel, 3,483,293.
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R., 3,437,680.
Farrissey, William J., Jr.; Recchia, Francesco P.; and Sayigh, Adnan A. R., 3,448,139.
Farrissey, William J., Jr.; Rose, James S.; and Sayigh, Adnan A. R., 3,448,150.

Farrissey, William J., Jr.; and Odinak, Alec, 3,449,256.
Forsblad, Ingemar B., 3,455,973.
Friedman, Alan R., 3,454,642.
Glenn, Eldridge Myles, 3,435,111.
Hanze, Arthur R.; and Camiener, Gerald W., 3,462,416.
Hoeksema, Herman, 3,427,321.
Hoeksema, Herman, 3,446,792.
Houtman, Ronald L., 3,442,926.
Houtman, Ronald L.; Morozowich, Walter; and Sinkula, Anthony A., 3,479,334.
Huner, James H., 3,444,294.
Jackson, Robert W.; and Pike, John E., 3,435,029.
Jensen, Erik H., 3,449,492.
Lednicer, Daniel, 3,452,102.
Lednicer, Daniel, 3,454,648.
Lednicer, Daniel, 3,455,924.
Lednicer, Daniel, 3,456,018.
Lednicer, Daniel, 3,458,526.
Lednicer, Daniel, 3,470,202.
Lednicer, Daniel, 3,480,679.
Lemin, Alan J., 3,436,208.
Lemin, Alan J., 3,449,112.
Lemin, Alan J., 3,480,424.
Magerlein, Barney J., 3,428,732.
Magerlein, Barney J., 3,459,734.
McClellan, Thomas R., 3,450,653.
Moffett, Robert B., 3,422,092.
Moffett, Robert B., 3,481,981.
Moffett, Robert Bruce, 3,422,120.
Moffett, Robert D., 3,467,709.
Moon, Malcolm W., 3,484,451.
Morozowich, Walter; and Taraszka, Mildred J., 3,426,012.
Morozowich, Walter., 3,475,537.
Morozowich, Walter; and Lamb, Donald J., 3,487,068.
Nashu, Abdul-Munim; Reymore, Harold E., Jr.; and Dayigh, Adnan A. R., 3,437,607.
Nelson, Norman A.; and Vanden Berg, Gray E., 3,462,473.
Nelson, Norman A., 3,475,417.
Odinak, Alec; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,423,344.
Odinak, Alec; and Thompson, Edward J., 3,450,803.
Paquette, Leo A., 3,431,270.
Paquette, Leo A., 3,432,507.
Paquette, Leo A., 3,466,292.
Parikh, Jekishan R.; and Doering, William Von E., 3,444,216.
Pike, John E.; and Schneider, William P., 3,436,388.
Porter, Lawrence Christie, 3,429,956.
Reymore, Harold E., Jr.; and Tilley, James N., 3,420,787.
Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,431,223.
Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,438,908.
Sayigh, Adnan A. R.; Ulrich, Henri; and Wright, John B., 3,422,201.
Sayigh, Adnan A. R., 3,424,780.
Sayigh, Adnan A. R.; and Ulrich, Henri, 3,450,700.
Sayigh, Adnan A. R.; and Tilley, James N., 3,458,605.
Sayigh, Adnan A. R.; and Ulrich, Henri, 3,467,651.
Sayigh, Adnan A. R., 3,471,543.
Sayigh, Adnan A. R.; and Ulrich, Henri, 3,484,466.
Schneider, William P., 3,424,746.
Schumann, Edward L., 3,456,058.
Skaletzky, Louis L., 3,452,011.
Smith, William R., 3,476,088.
Smith, William R., 3,486,735.
Spero, George B., 3,444,296.
Sponnoble, Harry, 3,464,414.
Szabo, Ladislaus D. A.; and Keimer, Birgit Yrsa, 3,482,018.
Szmuszkovicz, Jacob, 3,420,838.
Szmuszkovicz, Jacob, 3,458,523.
Szmuszkovicz, Jacob, 3,462,451.
Szmuszkovicz, Jacob, 3,468,881.
Szmuszkovicz, Jacob, 3,478,053.
Ursprung, Joseph J.; and Anthony, William C., 3,464,987.
Ursprung, Joseph J., 3,475,430.
Walker, Bradford H., 3,444,160.
Walker, Bradford H., 3,454,605.
Walker, Bradford H.; and Burke, Howard J,, 3,455,908.
Wechter, William J., 3,449,419.
Wechter, William J., 3,457,253.
Wechter, William J., 3,462,414.
Wiley, Paul F., 3,449,490.
Wright, John B.; and Markillie, John H., 3,452,014.
Wright, John B., 3,464,996.
Youngdale, Gilbert, 3,465,082.
Youngdale, Gilbert A., 3,444,197.

Uppal, Iqbal Singh, to Sylvania Electric Products Inc. Self-centering bias circuit for DC coupled class B transistor amplifier. 3,426,289, 2-4-69, Cl. 330-22.

Upper, Charles E., to Thiokol Chemical Corporation. Propellant injector mechanism for rocket engines. 3,425,224, 2-4-69, Cl. 60-258.

Upper, Charles E., to Thiokol Chemical Corporation. In-line check valve. 3,434,494, 3-25-69, Cl. 137-467.

Upshur, Littleton, to Burlington Industries, Inc. Electronic defect counter. 3,437,797, 4-8-69, Cl. 235-92.

Upshur, Littleton; Joy, Raymond D.; and Cochran, John M., Jr., to Burlington Industries, Inc. Loom stop counter. 3,437,799, 4-8-69, Cl. 235-92.

Upson, Frank A., to Standard Oil Company (Indiana). Apparatus for reacting polymeric material. 3,480,404, 11-25-69, Cl. 23-285.

Uptegraff, R. E., Manufacturing Company: *See—*
Parker, Delbert R., 3,464,109.
Uptegraff, Roy E., Jr., 3,443,157.

Uptegraff, Roy E., Jr., to Uptegraff, R. E., Manufacturing Company. Direct burial transformer. 3,443,157, 5-6-69, Cl. 317-15.

Uptime Corporation: *See—*
Tyler, Merle D.; Bonnema, Robert W.; and Higgins, Archie H., 3,437,201.

Upton, Douglas J.: *See—*
Upton, Douglas J.; and Cronan, Michael D., 3,467,279.

Upton, Douglas J.; and Cronan, Michael D., to Upton, Douglas J., mesne. Fluid dispensing monitor. 3,467,279, 9-16-69, Cl. 222-31.

Upton Electric Furnace Company, Inc.: *See—*
Upton, Norman W.; and Upton, Richard C., 3,420,937.
Upton, Norman W.; Kemper, Eugene L.; and Brummel, Roger L., 3,459,313.

Upton, Hubert W., to Galerstein, George. Speech and sound display system. 3,463,885, 8-26-69, Cl. 179-1.

Upton, Joshua D., Jr.: *See—*
Kaplan, Lloyd A.; and Upton, Joshua D., Jr.,3,420,746.

Upton, Lee O., to American Optical Corporation, mesne. Method of making optical coupling devices. 3,455,668, 7-15-69, Cl. 65-38.

Upton, Lee O., to American Optical Corporation, mesne. Method of coating a glass substrate. 3,481,758, 12-2-69, Cl. 117-33.3

Upton, Norman, W. and Harper, Elizabeth J.: *See—*
Upton, Norman W.; and Upton, Richard C.,3,420,937.

Upton, Norman W.; Kemper, Eugene L.; and Brummel, Roger L., to Upton Electric Furnace Company, Inc. Work transporting apparatus. 3,459,313, 8-5-69, Cl. 214-1.

Upton, Norman W.; and Upton, Richard C., deceased0 (by Upton, Norman, W. and Harper, Elizabeth J., co-executors), to Upton Electric Furnace Company, Inc. Apparatus and process for the manufacture of chemical reaction products. 3,420,937, 1-7-69, Cl. 13-9.

Upton, Richard C.: *See—*
Upton, Norman W.; and Upton, Richard C.,3,420,937.

Ura, Junichi, to Victor Company of Japan, Limited. Automatic belt tension control device. 3,464,613, 9-2-69, Cl. 226-178.

Ura, Yasukazu: *See—*
Shindo, Noboru; Ura, Yasukazu; Mori, Miyako; Hayakawa, Mitsuru; and Ueda, Kunihiro,3,443,011.
Shindo, Noboru; Ura, Yasukazu; Shimiau, Toru; Hayakawa, Mitsuru; Takahashi, Hiroki; Ueda, Kunihiro; and Mori, Miyako,3,472,932.

Ural, William E., to Dixie-Narco, Inc. Can and bottle vender. 3,463,355, 8-26-69, Cl. 221-67.

Uralli, Samil S.; and Bormann, Ralph B., to Johns-Manville Corporation. Railroad crossing. 3,469,783, 9-30-69, Cl. 238-8.

Uram, Earl M., to United States of America, Navy, mesne. Hydrofoil semisubmarine. 3,429,287, 2-25-69, Cl. 114-66.5

Uram, Stuart Z.: *See—*
Chandley, George D.; and Uram, Stuart Z.,3,420,291.

Uram, Stuart Z., to TRW Inc. Plastic pattern method for investment casting. 3,465,808, 9-9-69, Cl. 164-36.

Urane, David, to Broken Hill Proprietary Company Limited, The. Broken Hill Proprietary Company Limited, The. 3,433,628, 3-18-69, Cl. 75-80.

Uraneck, Carl A.; and Trepka, William J., to Phillips Petroleum Company. Modified polymers of conjugated dienes. 3,435,011, 3-25-69, Cl. 260-80.7

Urani, Angelo, to McGraw-Edison Company. Protectors for electric circuits. 3,437,972, 4-8-69, Cl. 337-221.

Urb Products Corporation: *See—*
Gugolz, Henry J., 3,450,093.

Urba, Richard J.; and Semrai, Edward D., to Electronic Devices, Inc. Neutralized solid state rectifier. 3,454,841, 7-8-69, Cl. 317-234.

Urbach, Franz; and Higgins, George C., to Eastman Kodak Company. Method for determining image sharpness. 3,469,925, 9-30-69, Cl. 356-122.

Urbach, Jacques. Apparatus and method for edge finishing contact lenses. 3,458,959, 8-5-69, Cl. 51-124.

Urbach, John C., to Xerox Corporation. Image storage comprising a thermoplastic deformation pattern. 3,436,216, 4-1-69, Cl. 96-1.1

Urbach, William H. Automatic releasable machine crank handle. 3,464,289, 9-2-69, Cl. 74-547.

Urbain, Walter M.; Shank, Joseph L.; and Kauffman, Floyd L., to Swift & Company. Irradiation with CO02 under pressure. 3,483,005, 12-9-69, Cl. 99-217.

Urban, Charles T.; and Defauw, John, to American Plating and Manufacturing Company. Music holder. 3,437,002, 4-8-69, Cl. 84-453.

Urban, Dieter H.: *See—*
Falckenberg, Otto F.; and Urban, Dieter H.,3,460,179.
Urban, John B., to Lunkenheimer Company. Seat ring for ball valves. 3,458,171, 7-29-69, Cl. 251-170.
Urban, Joseph A.: *See—*
Stewart, Florentine U.; and Urban, Joseph A.,3,473,508.
Huck, William F.; and Urban, Joseph,3,433,479.
Urban, Otfried: *See—*
Koeppe, Hans-Hermann; and Urban, Otfried;3,470,643.
Mundt, Peter; and Urban, Otfried,3,478,456.
Urban, Peter, to Universal Oil Products Company. Treating sour hydrocarbon distillates containing Mercapto compounds and acidic, surface- active materials. 3,445,380, 5-20-69, Cl. 208-206.
Urban, Peter, to Universal Oil Products Company. Treatment of hydrocarbon distillates to remove acidic organic material employing a fixed bed containing a solid alkali metal hydroxide. 3,457,165, 7-22-69, Cl. 208-263.
Urban, Peter, to Universal Oil Products Company. Oxidation of soluble sulfides. 3,471,254, 10-7-69, Cl. 23-114.
Urban, Peter; and Brown, Kenneth M., to Universal Oil Products Company. Regeneration of spent adsorbents. 3,472,786, 10-14-69, Cl. 252-414.
Urban, Siegfried: Constant speed motor including a mechanical oscillatory system mounted upon the rotor. 3,471,762, 10-7-69, Cl. 318-138.
Urban, Warren J.: *See—*
Holt, Ernest Knowlton; Mueller, Herbert H.; and Urban, Warren J.,3,429,136.
Urbanczik, Georg; and Rau, Wolfgang, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Installation for heating and ventilating passenger spaces of motor vehicles. 3,442,449, 5-6-69, Cl. 237-12.3
Urbanek, Francis S.: *See—*
McCarty, Orin P.; and Urbanek, Francis S.,3,472,981.
Urbanietz, Josef: *See—*
Loewe, Heinz; Urbanietz, Josef; and Lammler, Georg,3,484,524.
Urbanosky, Harold J., to Schlumberger Technology Corporation. Electrical and fluid line coupling apparatus for connecting well tool sections. 3,430,181, 2-25-69, Cl. 339-16.
Urbanosky, Harold J., to Schlumberger Technology Corporation. Selectively operable anchoring system. 3,430,698, 3-4-69, Cl. 166-212.
Urbanosky, Harold J., to Schlumberger Technology Corporation. Formation-sampling apparatus. 3,430,716, 3-4-69, Cl. 175-78.
Urbanowicz, Nick Nikodem. Nebulizers. 3,473,530, 10-21-69, Cl. 128-194.
Urbanowski, Richard L.; and Steinkoenig, Roland P., to Diamond Shamrock Corporation. Preparation of disodium methyl arsonate. 3,440,258, 4-22-69, Cl. 260-442.
Urbanska, Ewa: *See—*
Malinowska, Irena; Myslinska, Celina; and Urbanska, Ewa,3,484,187.
Urbas, John C.; and Elnicki, Walter J., to Midland-Ross Corporation. Web treating apparatus. 3,462,851, 8-26-69, Cl. 34-160.
Urben, Adauto, to Sulzer Brothers Limited. Free piston pumping engine. 3,455,501, 7-15-69, Cl. 230-56.
Urch, Harvey M.: *See—*
Wenger, Jerry A.; and Urch, Harvey M.,3,435,909.
Urdanoff, Howard D. Method and apparatus for clarifying liquids. 3,456,798, 7-22-69, Cl. 210-73.
Urech, Jakob; Fechtig, Bruno; Bosshardt, Rolf; Bickel, Hans; Schenker, Karl; and Wilhelm, Max, to Ciba Corporation. Derivatives of 7-amino-cephalosporanic acid and process for their manufacture. 3,484,437, 12-16-69, Cl. 260-243.
Urech, Jakob: *See—*
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Schenker, Karl; and Urech, Jakob,3,483,197.
Urethane Structures, Inc.: *See—*
Weinrott, George H., 3,462,897.
Urfer, Allen D.: *See—*
Cooper, Robert S.; and Urfer, Allen D.,3,423,322.
Urgnani, Luigib,t3 Marini, Franco Coluatti: *See—*
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez,3,462,538.
Urian, Charles A.: *See—*
Rueth, Joseph F.; and Urian, Charles A.,3,434,300.
Uric, Robert G.; and Radtake, Edward W., to United Aircraft Corporation. Heat exchanger construction. 3,451,473, 6-24-69, Cl. 165-166.
Uriostc Hermida, Felipe. Last for the cleaning of footwear. 3,454,972, 7-15-69, Cl. 12-53.7
Urner, Jimmie L., to Happy Company, The. Finned tube protector band. 3,420,296, 1-7-69, Cl. 165-134.
Urquhart's (1926) Limited:*See—*
Furman, George T.; and Fraser, Reginald Percy, 3,425,407.
Urquhirt, Alexander J.: *See—*
Staples, Lynn A.; and Urquhirt, Alexander J.,3,483,634.
Urry, Wilbert H.: *See—*
Beckham, Rodney D.; Makin, Earle C., Jr.; and Urry, Wilbert H.,3,437,704.
URS Corporation: *See—*
Orshansky, Elias, Jr., 3,446,093.
Orshansky, Elias, Jr., 3,455,183.
Urs, Venkataramaraj S.: *See—*
Vebra, Joseph; Wojtowicz, John A.; and Urs, Venkataramaraj S.,3,463,823.
Urschel, Gerald W.: *See—*
Urschel, Joe R.; and Urschel, Gerald W.,3,435,864.
Urschel, Gerald W.; and Urschel, Joe R. Machine for cutting materials. 3,472,297, 10-14-69, Cl. 146-78.
Urschel, Joe R.; and Urschel, Gerald W. Machine structure for cutting a product into pieces. 3,435,864, 4-1-69, Cl. 146-78.
Urschel, Joe R.: *See—*
Urschel, Gerald W.; and Urschel, Joe R.,3,472,297.
Ursenbach, Wayne O.: *See—*
Cook, Melvin A.; and Ursenbach, Wayne O.,3,457,127.
Ursprung, Joseph J.: *See—*
Anthony, William C.; and Ursprung, Joseph J.,3,461,461.
Ursprung, Joseph J., to Upjohn Company, The. 1,2-Dihydro-1,3,5-triazine ethers. 3,475,430, 10-28-69, Cl. 260-249.6
Ursprung, Joseph J.; and Anthony, William C., to Upjohn Company, The. 1,2-Dihydro-1-hydroxy-2-imino-6-(lower alkyl) pyrimidines. 3,464,987, 9-2-69, Cl. 260-247.5
Ursvikens Mekaniska Verkstads AB: *See—*
Eriksson, Egon Ake Lennart, 3,429,156.
Urtel, Max, to Ehrhardt & Sehmer, Maschinenfabrik A.G. Straightening machine. 3,422,651, 1-21-69, Cl. 72-162.
Urvantsev, Leonid Mikhailovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Urwyler, Heinrich: *See—*
Grauer, Theodor; and Urwyler, Heinrich,3,452,043.
U.S. Baird Corporation, The: *See—*
Holmes, Frank C., 3,459,066.
U.S. Components Inc.: *See—*
Jackson, Boris A.; Nalbantian, Stepan; and Remondino, Benedetto, 3,448,507.
U.S. Composites Corporation: *See—*
Dubin, Dennis S.; and Frost, Solomon, 3,476,529.
U.S. Dimension Products, Inc.: *See—*
Nelson, Donald A.; and Frankulin, Robert C., 3,470,993.
U.S. Expansion Bolt Company: *See—*
Helderman, James F., 3,474,700.
U.S. Industries, Inc.: *See—*
Allen, Dee D., 3,460,517.
Allen, Dee Dexter; and George, Robert O., 3,456,748.
Allen, Dee Dexter; and Comber, William R., 3,458,029.
Burris, Howard T., 3,480,105.
Carrieri, Louis F.; and Skinner, Norton D., 3,433,086.
Carrieri, Louis F., 3,483,891.
Comber, William R.; and Hoekje, Harverd J., 3,453,674.
Foreman, Caley A., 3,462,847.
Foreman, Caley A., 3,471,068.
Fracke, Karl Christoph, 3,468,173.
Frank, Josef; Clemons, Maurice M.; Huber, John A.; and Baringer, Berlyn E., 3,481,523.
Furgason, Carl M.; and Eckenrod, Carl J., 3,464,709.
Haggard, Richard A., 3,478,805.
Handwerger, Louis, 3,472,442.
Heggie, Henry W., 3,463,162.
Huber, John A.; and Baringer, Berlyn E., 3,425,612.
Joor, William E., II, 3,449,884.
Koepke, Donald Bernard, 3,460,840.
Nicholas, Arthur S., 3,455,603.
Van Huis, Robert L., 3,444,986.
Van Huis, Robert L., 3,467,065.
U.S. Metal Fabricating Co.: *See—*
McCauley, Robert J., 3,483,587.
U.S. Perlite Corporation: *See—*
Stedman, Cresswell E., 3,441,244.
U.S. Philips Company, Inc.: *See—*
Almer, Friedrich Hermann Raymund; and Kuiper, Adrianus, 3,472,693.
Doesschate, Walter, Jr., 3,486,120.
Kooy, Cornelis; Munk, Enno Coert; and Rem, Piet Hein, 3,472,691.
Meijer, Riksterus Auguste Johannes Maria; and T'jampens, Germin Remi, 3,484,146.
U.S. Philips Corporation: *See—*
Ahsmann, Gerardus Josephus Maria; Lothaller, Wolfgang Erich; Meyer, Hans Joachim Gustav; and van der Laarse, Jan Willem, 3,473,070.
Aitchison, Colin Stuart; and Davies, Robert, 3,467,907.
Attwood, Brian Ernest, 3,449,679.
Attwood, Brian Ernest, 3,456,150.

Auphan, Michel, 3,486,506.
Bailleul-Langlais, Josette; Neuville, Jean; and Veilex, Robert, 3,446,422.
Bakker, Martinus Antonius Maria; Collaris, Maria Antonius Alphonsus Andreas; and Duran, Johannes Christiaan, 3,478,243.
Barnish, Philip; Stelwagen, Jan; and Werkman, Thijs Willem, 3,452,803.
Barnish, Philip; and Baert, Rober B., 3,459,061.
Barnish, Philip; and Barrett, Colin, 3,477,259.
Barten, Piet Gerard Joseph, 3,486,061.
Barten, Piet Gerard Joseph; and Schulte, Hans Helmut, 3,487,251.
Beale, Julian Robert Anthony; and Beer, Andrew Francis, 3,449,648.
Belaieff, James, 3,458,136.
Berends, Werner, 3,465,154.
Berger, Hermann, 3,460,056.
Bernhardt, Werner, 3,470,753.
Berth, Michel; and Jean, Bernard Louis Pierre, 3,456,312.
Betoule, Michel; Petit, Rene; and Rebuffie, Jean Claude, 3,444,414.
Betoule, Michel; L'Hermite, Pierre; and Petit, Rene, 3,465,190.
Beuvens, Herman Joseph Hendrik; and Schuitemaker, Jan Jacob, 3,465,193.
Bircher, Johannes, 3,461,204.
Blatter, Johannes Reinier, 3,467,879.
Blume, Peter, 3,444,389.
Blume, Peter, 3,467,894.
Boekhorst, Antonius; and Moggre, Anthonie Jannis, 3,458,751.
Boerema, Jan; and Tegel, Meindert Johan, 3,469,156.
Bos, Jules; Koorneef, Jacob; and Walther, George Ludwig, 3,485,958.
Bos, Marinus Anton, 3,456,200.
Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C., 3,464,725.
Brouwer, Cornelis Johannes, 3,448,368.
Buchner, Robert Bertold, 3,458,663.
Bullinger, Theo; and Feuszner, Hannes, 3,486,098.
Burggraaf, Anthonie Jan; van der Stelt, Ernest Onno Willem; and de Ruiter, Jacob Willem, 3,484,276.
Cailleux, Philippe; and Mothiron, Claude, 3,473,085.
Caron, Jean; and Bigo, Firmin, 3,449,620.
Cath, Pieter G., 3,458,704.
Chemla, Claude; Cramer, Claude; and Leger, Francois, 3,462,738.
Claassen, Volkert; Huisman, Hendrikus Obias; and Mos, Gerardus Henricus Maria, 3,472,938.
Clark, Arthur E., 3,483,334.
Daams, Jasper, 3,472,645.
Daniels, Henricus Petrus Cornelis; and Rademakers, Franciscus Maria Antonius, 3,455,015.
De Boer, Douwe Mindert; Bosman, Willem Freddrik; Croymans, Jacques Johannes Hendrik; and Kreutzelman, Harm, 3,453,465.
De Gast, Jacobus Gijsbert Cornelis, 3,442,560.
de Kroes, Jan Louis; and van Eijk, Willem, 3,483,332.
Deans, Jackson, 3,456,936.
Dibbern, Uwe, 3,450,929.
Diemer, Gesinus, 3,456,209.
Dorgelo, Eduard G., 3,465,201.
Dubbelman, Pieter, 3,486,689.
Eigeman, Jacobus; and Tuinhof, Anton Dirk, 3,476,990.
Einthoven, Willem Gerard, 3,449,646.
Engels, Gunther; Kablitz, Gert; and Wischmann, Heinrich, 3,450,920.
Engelsman, Jan Johannes; Krijl, Gerritt; and Baeyens, Petrus, 3,483,100.
Evrard, Robert, 3,472,078.
Frohner, Klaus; Horster, Horst; Lydtin, Hans Jurgen; and Reifenschweiler, Otto, 3,479,550.
Gade, Gerhard; Rische, Uwe Wolfgang; and Rosler, Geert, 3,475,577.
Ganser, Hans Gunther; Kauer, Erhard; and Lydtin, Hans Jurgen, 3,458,270.
Gartner, Werner, 3,440,387.
Golombek, Werner; and Timmermans, Franciscus, 3,462,704.
Grimmeiss, Hermann Georg; and Scholz, Heinz, 3,470,379.
Guennou, Serge, 3,482,058.
Haisma, Jan, 3,477,036.
Hall, Raymond Frederick, 3,465,194.
Handele, Martin Jacob; Kuipers, Johannes; and Wellinga, Kobus, 3,449,497.
Hector, Nils Folke, 3,469,104.
Heetman, Alphonsus, 3,458,839.
Hendriks, Adrianus Anthonius Maria; Klopping, Carel Peter; Van Hout, Franciscus Adrianus; and Sanders, Petrus Wilhelmus, 3,473,068.
Himmelbauer, Erich Eduard; and Peper, Jan, 3,449,621.
Hinssen, Andreas Petrus Paulus; and Smeelen, Theodorus Johannes Henricus, 3,457,449.
Hoekstra, Piet; and Theisman, Jan Bernardus Reint, 3,443,154.
Hoekstra, Piet, 3,457,401.
Horster, Horst; and Pennekamp, Jan Christiaan, 3,458,746.
Horster, Horst; and Pennekamp, Jan Christiaan, 3,471,737.
Hughes, Ray C.; and Mavrodineanu, Radu, 3,472,594.
Jackson, Richard Norman; and Freeman, Kenneth George, 3,456,071.
Jackson, Richard Norman; and Johnson, Keith Eric, 3,485,946.
Jansen, Johannes Adrianus Cornelis; and Ekkelboom, Tjepke Hendrik, 3,484,639.
Janssen, Peter Johannes Hubertus, 3,440,343.
Janssens, Henri Hubert; Westerveld, Willem; and Nijland, Louis Marius, 3,449,260.
Jonker, Gerard Heinrich, 3,458,455.
Jonkers, Johannes Josephus Antonius, 3,484,240.
Jonkers, Johannes Josephus Antonius; and Groendijk, Hendrik, 3,484,269.
Joormann, Hendrik Jacobus Maria; and Van Vulpen, Aalbert, 3,475,713.
Kaashoek, Johannes; Versluis, Johannes Willem; and Barten, Piet Gerard Joseph, 3,440,483.
Kammer, Franz, 3,440,427.
Kaps, Gerhard; and Schott, Winfried, 3,448,251.
Kaps, Gerhard, 3,471,790.
Kiesow, Helmut; and Purps, Heinz Dieter, 3,453,454.
Kirk, Joseph; and Forsthuber, Robert Franz Karl, 3,466,762.
Klasens, Hendrik Anne, 3,442,647.
Klasens, Hendrik Anne, 3,481,031.
Klein, Gerrit, 3,458,729.
Klein, Thomas, 3,456,169.
Klein, Thomas; and Nicholas, Keith Harlow, 3,470,076.
Klopping, Carel Peter; and Gerlach, Hans Georg, 3,487,250.
Koeman, Meindert; and Keers, Iendrik Jan Frederik, 3,462,653.
Kohler, Jacob Willem Laurens; and Prast, Gijsbert, 3,472,037.
Kok, Pieter W., 3,449,570.
Kool, Gerrit, 3,447,025.
Korst, Peter Herman Maria; Verhoeven, Adrianus Franciscus Cornelis; and Westerhof, Thomas Jan, 3,487,257.
Korver, Jan Abraham Cornelis, 3,441,958.
Koster, Johan; and Benning, Herman Jozef Gerardus Maria, 3,458,818.
Krugers, Johan Felix Jozef, 3,458,258.
Kuiper, Wilhelmus Gerardus, 3,440,564.
Kwestroo, Wim; and Vromans, Petrus Helena Gerardus Maria, 3,450,496.
Laa, Friedrich, 3,439,919.
Lagemann, Klaus, 3,458,825.
Le Goff, Guillaume, 3,448,372.
Le Mair, Willem; Peek, Johannes Bernard Heinrich; and Valster, Frederik, 3,440,653.
Lemmrich, Jurgen, 3,443,184.
Levitt, Ralph S., 3,449,051.
Lookman, Evert Jacobus, 3,458,737.
Lothaller, Wolfgang Erich, 3,461,335.
Louzil, Friedrich; Appel, Arne; and Habelt, Gerhard, 3,445,613.
Manders, Godefridus Johannes, 3,453,398.
Manley, Brian William, 3,457,451.
Manley, Brian William; and Adams, John, 3,487,258.
Meijer, Roelf Jan; and van Witteveen, Roland Anton Johan Otto, 3,442,079.
Meijer, Roelf Jan, 3,454,779.
Meijer, Roelf Jan; Fokker, Herman; and van Witteveen, Roland Anton Johan Otto, 3,456,438.
Melse, Jan Leendert, 3,472,741.
Meuleman, Johannes, 3,457,470.
Meyer, Dietrich, 3,477,040.
Meyer, Dietrich, 3,479,582.
Michaelis, Horst, 3,487,381.
Moed, Henrik Durk, 3,453,328.
Muijderman, Everhardus Albertus, 3,467,449.
Mulder, Jan, 3,473,341.
Nassibian, Armenag Garabed, 3,449,644.
Nienhuis, Rijkent Jan, 3,484,865.
Noordermeer, Aart; Puister, Willem; and Wesselman, Petrus Geradus Johannes, 3,475,506.
Novacek, Tom, 3,441,667.
Palfreeman, John Siegfried, 3,446,967.
Peters, Alphonsus Maria; and Rongen, Jacobus Johannes, 3,440,552.
Planteijdt, Frans Jakob, 3,458,155.
Polzl, Reinhard Anton, 3,440,543.
Pot, Jan, 3,475,764.
Potzl, Friedrich, 3,476,177.
Prijn, Cornelis, 3,459,933.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, 3,445,489.
Reijnders, Joseph Lodenwijk Maria, 3,453,399.
Reiniger, Friedrich, 3,457,406.
Rietdijk, Johan Adriaan, 3,447,339.
Rietdijk, Johan Adriaan, 3,456,456.
Rietdijk, Johan Adriaan, 3,464,230.

Rietdijk, Johan Andriaan, 3,442,093.
Rietveld, Andreas Fredericus, 3,450,572.
Rodenburg, Nicolaas; and Hermes, Willem, 3,456,191.
Rommerts, Jan Willem; and Westerhof, Thomas Jan, 3,444,420.
Rothgordt, Ulf, 3,483,566.
Salmet, Gaston, 3,440,353.
Schmidt, Heiner, 3,467,910.
Schmidt, Siegfried, 3,474,288.
Schmidt, Wolfgang; and Seifert, Horst, 3,450,927.
Schoot, Cornelis Johannes; and Ponjee, Johannes Jacobus, 3,471,379.
Schott, Winfried, 3,472,116.
Schrijnemakers, Gerardus Servaas Marie, 3,456,311.
Schroder, Johann; and Nijland, Louis Marius, 3,459,488.
Schuh, Jan Frederik, 3,443,117.
Schulz, Alfred, 3,456,197.
Siekman, Jakob Gerard; and Morijn, Rudolf Eduard, 3,473,000.
Simmons, Derrick George; and Smith, James, 3,473,143.
Smith, Peter Southcott, 3,462,652.
Staas, Frans Adrianus, 3,472,038.
Steinkopf, Wolfgang, 3,449,510.
Stenstrom, Lennart Arvid, 3,475,063.
Stuijts, Andreas Leopoldus, 3,472,780.
Tak, Willem, 3,484,563.
te Velde, Ties Siebolt, 3,480,818.
teVelde, Ties Siebolt; and Koelmans, Hein, 3,481,030.
Thibaut, Yves; and Toulemonde, Dominque, 3,486,072.
Tranin, Jean Pierre, 3,447,157.
Underhill, Michael James, 3,471,710.
van Boort, Henricus Johannes Joseph; and Jacobs, Cornelis Adrianus Joannes, 3,484,637.
Van Daelen, Henri Jean Gerard Marie, 3,479,547.
van der Burgt, Cornelis Martinus, 3,475,704.
van der Lely, Piet, 3,439,920.
Van Der Maaden, Johan, 3,456,521.
van der Put, Henricus Cornelis Adrianus; and Sinjou, Johannes Petrus, 3,459,097.
Van Der Sanden, Hendrikus Cornelis Nicolaas; Veenendaal, Hendrikes Johannes; and Boersma, Theo Tjalke, 3,471,294.
van der Veen, Roelof Rewnier, 3,456,083.
van der Wijngaart, Bernardus Antonius Carolus; Quirijnen, Marius; and Knigge, Marinus Gijsbertus, 3,477,787.
Van Gerwen, Petrus Josephus, 3,456,199.
Van Hensbergen, Gerrit Hendrik; and Grubben, Henri Peter Johannes, 3,476,881.
van Iersel, Alfons Matthijs Reinier, 3,482,152.
Van Langen, Johannes Otto Michael; and Bastiaanssen, Johannes Wilhelmus, 3,452,430.
van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie, 3,453,553.
van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie, 3,465,261.
van Stratum, Antonius Johannes Alberta; Zalm, Pieter; Verest, Franciscus Johannes; and Henkes, Hans, 3,458,749.
Van Vroonhoven, Casper Ebeline Gerardus Martinus Marie, 3,484,362.
Vandersteen, Jacobus Johannes Cornelius, 3,453,159.
Vandersteen, Jacobus Johannes Cornelius, 3,469,895.
Vandersteen, Jacobus Johannes Cornelius, 3,486,414.
Veilex, Robert, 3,458,831.
Vermeulen, Gerardus Antonius Wilhelmus; Broos, Jan; and Gravesteijn, Jacobus Cornelis, 3,483,416.
Vervaart, Adrianus P.; and Ansems, Alfonsus Johannes Petrus, 3,486,870.
Visscher, Johannes Mattheus, 3,458,098.
Walther, George Ludwig; Koorneef, Jacob; and Bos, Jules, 3,474,528.
Wanmaker, Willem Lambertus; Radielovic, Dragutin; and Hoekstra, Age Hylke, 3,468,812.
Wansink, Jan Herman, 3,469,759.
Weisz, Thomas, 3,471,718.
Werner, Helmut Wilhelm Werner, 3,461,285.
Wesselink, Gustaaf Adolf, 3,457,523.
Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, 3,468,917.
Westerhof, Pieter; and Hartog, Jan, 3,471,529.
Wijnen, Marinus Dirk; and Boter, Pieter Abraham, 3,444,002.
Wilkes, John George; and Rantell, Alan, 3,442,775.
Winkler, Gerhard, 3,461,072.
Wolber, Jorg, 3,444,422.
Wolfrum, Gunther Carl Maximilian Eduard; and Enzlin, Theodoor Henri, 3,482,150.
Wright, Norman K.; and Kite, Maurice E., 3,440,830.
Zwanenburg, Goozzen, 3,441,876.

U.S. Plywood-Champion Paper Inc.: *See—*
Ettore, Harold V.; Ashby, Frederick R.; and Faccou, Harlan N., 3,475,261.
Gaylord, Norman G., 3,485,777.

U.S. Plywood-Champion Papers Inc.: *See—*
Ashby, Frederick R.; and Luebs, Donald F., 3,469,866.
Ashby, Frederick R.; and Ropella, Leonard A., 3,484,994.
Blickensderfer, Philip S., 3,420,363.
Corrsin, Lester, 3,477,194.
Dement, Richard H., 3,485,405.
Hartman, Seymour; and Sullivan, Francis F., 3,424,270.
Hemming, Charles B., 3,468,690.
Luebs, Donald F., 3,478,478.
Morrissey, William H., 3,462,900.
Scott, Jerry Bernard, 3,462,006.
Scott, Marvin, 3,442,253.
Sears, Vernon F.; MacDonald, William D.; and Comlossy, Frederic B., 3,441,959.
Taylor, William P., 3,420,405.
Thompson, Kenneth; and Ihde, Richard C., 3,421,678.
Vokes, Frank; and Benzing, James A., 3,436,893.
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J., 3,444,105.
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J., 3,467,646.

U.S. Rubber Reclaiming Co., Inc.: *See—*
Elgin, Joseph C., 3,468,974.

U.S. Stoneware, Inc.: *See—*
Eckert, John S., 3,423,032.
Eckert, John S., 3,440,018.
Eckert, John S.; and Moore, Frank D., 3,454,233.
Moore, Frank D., 3,433,421.

U.S. Textile Machine Company: *See—*
Baglino, John P.; Gubitose, Nicholas F.; Rappenglueck, Joseph R.; and Loveland, Chester L., 3,464,196.
Loveland, Chester L., 3,479,707.

Usab, Ernest M. Floating wave suppressor. 3,465,528, 9-9-69, Cl. 61-5.

Usami, Hisao: *See—*
Matsumoto, Kohjiro; Usami, Hisao; and Sekiguchi, Sadao,3,481,764.

Usami, Masakatsu: *See—*
Yamawaki, Takeshi; and Usami, Masakatsu,3,484,425.

U. S. Automatics Corporation: *See—*
Peterson, Donovan F., 3,448,298.

USCO Power Equipment Corporation: *See—*
Lankford, William Austin, 3,480,747.

U. S. Divers Company: *See—*
Dey, Leland S., 3,426,790.

Usher, John Dennis, to A.P.V. Company Limited, The. Plate heat transfer apparatus. 3,448,796, 6-10-69, Cl. 165-78.

Usher, John Dennis, to A.P.V. Company Limited, The. Recirculation plate type evaporators. 3,469,615, 9-30-69, Cl. 159-13.

Ushikubo, Tokuzi; and Kikuchi, Iwao, to Hitachi, Ltd. Horizontal deflection circuit with protective diode. 3,444,424, 5-13-69, Cl. 315-27.

Ushio Electric Inc.: *See—*
Amoh, Hiroshi, 3,469,909.

Ushioda, Tsunezo; and Koyanagi, Tatsuo. Method for adjusting silage. 3,468,668, 9-23-69, Cl. 99-8.

Ushioda, Tsunezo; Nonaka, Katsuhiko; Yasueara, Minoru; Sato, Katsuya; Ompo, Takeshi; and Ishibashi, Hiroaki. Growth promoting method for microorganisms. 3,476,647, 11-4-69, Cl. 195-80.

Ushirokajitani, Yoshiyuki: *See—*
Nozaki, Toshio; Mori, Kunihito; Ushirokajitani, Yoshiyuki; and Okamoto, Kenya,3,485,370.

Ushiyama, Keichi: *See—*
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotaka,3,467,691.

Ushiyama, Keiichi: *See—*
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori,3,462,533.

USI Corporation: *See—*
Page, Leo W., 3,432,921.

Usines Decoufle, Societe Anonyme: *See—*
Verjux, Jean Roger, 3,440,912.

Usiness Balteau Societe Anonyme: *See—*
d'Adler-Racz, Joseph H., 3,465,152.

Uskokovic, Milan Radoje, to Hoffmann-La Roche Inc.20β-Alkanoyloxy-5-oxo-3,5-seco-A-nor-pregnan-3- oic acids. 3,471,550, 10-7-69, Cl. 260-488.

Uskokovic, Milan Radoje: *See—*
Wenner, Wilhelm; and Uskokovic, Milan Radoje,3,463,774.
Wenner, Wilhelm; and Uskokovic, Milan Radoje,3,485,824.

USM Corporation: *See—*
Barton, George C.; and Reader, Philip, 3,481,308.
Burke, George F. C.; Duffy, Richard J.; and Peterson, Raymond L., 3,452,714.
Campbell, Jean K., 3,430,532.
Chandler, Edmond A.; and Winslow, Kenelm W., 3,483,581.
Cournoyer, George R., 3,479,951.
Crossen, William P.; and Yarrison, Walter W., 3,439,384.
Fisk, Wilbur, 3,474,475.
Herdeg, Donald F.; and Morgan, Paul E., 3,430,949.
Humphreys, Donald R., 3,424,432.
Humphreys, Donald R., 3,435,706.
Humphreys, Donald R., 3,461,997.
Humphreys, Donald Robert, 3,447,385.
Imhof, Herman A., 3,435,474.

Le Sage, Robert H., 3,482,482.
Longval, William B., 3,474,695.
Mansfield, Donald L.; and Tappan, Peter C., 3,444,959.
McIlvin, Donald B.; and Bernard, Robert J., 3,443,279.
Morgan, Paul E., 3,483,582.
Murphy, Arthur J., 3,431,570.
Pacharis, George H., 3,437,004.
Passer, La Roy B., 3,448,651.
Paul, Bruce F., 3,435,501.
Pretty, Frederick A.; and Gibbard, Thomas, 3,451,299.
Reever, Karl D.; Boynton, Sumner H.; and Berry, Robert D., 3,462,782.
Romeo, Vincent P., 3,429,170.
Romeo, Vincent P., 3,443,298.
Romeo, Vincent P., 3,458,072.
Rondeau, Herbert F., 3,481,634.
Scott, Ernest H., 3,471,913.
Semanchik, Robert J., 3,455,199.
Voice, Terence W., 3,467,996.

USS Agri-Chemicals, Inc.: *See—*
Dexter, Robert G., 3,451,595.
Guerrant, Gordon O., 3,461,043.
Hudson, John W.; and Ferguson, Gerald D., 3,442,637.
Hudson, John W.; and Ferguson, Gerald D., 3,451,800.
Hudson, John W., 3,459,530.
McFarlin, Richard F.; and Brown, Donald E., 3,428,418.
Paden, Harrell W.; Carr, Hullet C.; and McDowell, Alfred W., 3,449,106.
Satterwhite, William A.; Carter, Jack M.; and Carey, Thomas L., 3,455,651.
Wiesboeck, Robert A., 3,428,421.
Wiesboeck, Robert A., 3,428,422.
Wiesboeck, Robert A., 3,429,659.
Wiesboeck, Robert A.; and Nickerson, John D., 3,459,528.
Wiesboeck, Robert A., 3,459,529.
Wiesboeck, Robert A., 3,470,175.

Ustav pro Vyzkum motorovych Vozidel: *See—*
Hau, Antonin, 3,426,618.

U. S. Telephonics, Inc.: *See—*
Whitely, Richard L.; Yaggi, Lawrence A.; Shivers, Kenneth P.; and Tongret, Stewart, 3,445,601.

Usuba, Yoshiro: *See—*
Imai, Orio; Usuba, Yoshiro; and Ito, Shozo,3,446,493.

Usui, Akira; Kurokochi, Michiharu; and Sugiyama, Shigeo, to Usui Kokusai Sangyo Kabushiki Kaisha. Method of making a wear-resistant sliding-surface structure. 3,431,160, 3-4-69, Cl. 156-228.

Usui, Hiroshi; and Kaminishi, Takehito, to Citizen Watch Co., Ltd. Clock case. 3,465,512, 9-9-69, Cl. 58-53.

Usui, Koichi: *See—*
Sugahara, Yujiro; Usui, Koichi; Naito, Hiroyuki; and Sakamoto, Masao,3,471,252.

Usui Kokusai Sangyo Kabushiki Kaisha: *See—*
Usui, Akira; Kurokochi, Michiharu; and Sugiyama, Shigeo, 3,431,160.

Usuku, Tomoatsu: *See—*
Kudo, Shiro; Mihara, Yoshihisa; Adachi, Taiichi; Tsurugi, Shinichi; Usuku, Tomoatsu; and Wada, Isamu,3,476,796.

Utah Research and Development Co., Inc.: *See—*
Clark, William H.; and Hall, Stanley A., 3,434,187.

Utara, Susan T.: *See—*
Crittenden, William B.; and Utara, Susan T.,3,475,062.

Utech, Harvey P.; and Flemings, Merton C., said Flemings assor. to Massachusetts Institute of Technology. Process for making solids and products thereof. 3,464,812, 9-2-69, Cl. 75-65.

Uterhart, Philip E., to Bell & Howell Company. Meter blade balancing means using pivoted weights. 3,459,050, 8-5-69, Cl. 73-480.

Uthe, Paul M., Jr.; Wright, Loren G.; and Greenan, Richard E., to Uthe Technology, Inc. Ultrasonic frequency power supply. 3,445,750, 5-20-69, Cl. 323-1.

Uthe, Paul Michael, to Electronic Associates, Inc. Quadrupole mass analyzer. 3,457,404, 7-22-69, Cl. 250-41.9

Uthe Technology, Inc.: *See—*
Uthe, Paul M., Jr.; Wright, Loren G.; and Greenan, Richard E., 3,445,750.

Utica Tool Company, Inc.: *See—*
Rozmus, Walter J., 3,438,406.

Utility Products Manufacturing Company: *See—*
Farmer, Marion R., 3,468,571.

Utility Trailer Mfg. Company: *See—*
Barker, Stephen; and Bennett, Paul F., 3,421,777.
Barker, Stephen; and Fleck, Ray D., 3,421,778.

Utjakov, Lev Lazarevich: *See—*
Sigorsky, Vitaly Petrovich; Molchanov, Alexandr Artemjevich; Sitnikov, Leonid Semenovich; and Utjakov, Lev Lazarevich,3,423,703.
Sigorsky, Vitaly Petrovich; Sitnikov, Leonid Semenovich; Utjakov, Lev Lazarevich; Boiko, Anatoly Nickolaevich, Molchanov, Alexandr Artemjevich; and Osjagin, Jury Semenovich,3,430,150.

U.T.L. Incorporated: *See—*
Rossmann, Rudolf H.; and Strauss, Edgar, 3,477,475.

Utley, Charles H.; and Sanson, Jerry R. Jig for electrical outlet boxes. 3,436,070, 4-1-69, Cl. 269-8.

Uto, Yoshimitsu: *See—*
Kameda, Isamu; and Uto, Yoshimitsu,3,476,909.

Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu, to Mitsubishi Jukogyo Kabushiki Kaisha. Laminated wall pressure vessel for use in hydrogen atmospheres. 3,431,949, 3-11-69, Cl. 138-143.

Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu, to Mitsubishi Jukogyo Kabushiki Kaisha. Laminated high pressure container having resistance to hydrogen embrittlement. 3,457,960, 7-29-69, Cl. 138-143.

Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu, to Mitsubishi Jukogyo Kabushiki Kaisha. Pressure vessel with laminated plate wall for use with hydrogen. 3,461,917, 8-19-69, Cl. 138-143.

Utsumi, Hiroshi: *See—*
Seki, Shigeru; and Utsumi, Hiroshi,3,464,806.

Utterback, Max G.: *See—*
Selsam, Roger L.; and Utterback, Max G.,3,461,910.

Utvik, Arne Ingemar. Self-bailing boat. 3,481,300, 12-2-69, Cl. 114-185.

Utz, Kastulus, to Multifol Patentverwertungs A.G. Method of laminating a carrier web and a high melting plastic film. 3,467,565, 9-16-69, Cl. 156-244.

Utz, Walter E.: *See—*
Boehringer, Raymond H.; Aylesworth, Robert D.; and Utz, Walter E.,3,472,775.

Utzinger, William F.: *See—*
Rieger, Frederic L.; Kern, Jack I.; and Utzinger, William F.,3,474,234.

Uvelius, Karl-Birger: *See—*
Ljungdell, Stig Helge Lennart; Uvelius, Karl-Birger; and Berntson, Karl-Erik,3,487,268.

Uyeda, Tim M.: *See—*
Ellsworth, Arthur W.; Fujioka, Robert K.; and Uyeda, Tim M.,3,431,871.
Milette, Kenneth A.; and Uyeda, Tim M.,3,438,467.

Uzdavines, Edward A. Method of converting scrap automobile bodies to high grade pigs. 3,484,231, 12-16-69, Cl. 75-43.

Uzo, Keizo: *See—*
Matsui, Masanao; Uzo, Keizo; Yamada Yasuhiro; and Wakaki, Shigetoshi,3,420,846.

Uzu, Keigo: *See—*
Matsui, Masano; Yamada, Yasuhiro; Uzu, Keigo; Hirata, Tadashi; and Wakaki, Shigetoshi,3,429,894.

Uzu, Keizo: *See—*
Matsui, Masanao; Uzu, Keizo; Yamada, Yasuhiro; and Wakaki, Shigetoshi,3,444,182.

Uzu, Keizo; Takahira, Hiroshi; Kato, Hiromasa; Sugiyama, Noriyuki; Haneda, Tomotsune; and Ishii, Sumihiro, to Societe des Usines Chimiques Rhone-Poulenc. Spiramycin-3-monoesters. 3,424,743, 1-28-69, Cl. 260-210.

Uzunoglu, Vasil, to United States of America, Navy. Additive semiconductor amplifier. 3,447,093, 5-27-69, Cl. 330-25.

v. Rauch, Moriz, to Siemens Aktiengesellschaft. Method and device for aligning the field axis of a stigmator in an electron-optical lens system. 3,444,427, 5-13-69, Cl. 315-31.

v. Sturm, Ferdinand; and Mager, Kurt, to Siemens Aktiengesellschaft. Use of raney nickel for obtaining hydrogen. 3,454,364, 7-8-69, Cl. 23-212.

v. Sturm, Ferdinand; Nischik, Herbert; and Weidlich, Erhard, to Siemens Aktiengesellschaft. Electrochemical cell. 3,471,336, 10-7-69, Cl. 136-86.

V-M Corporation: *See—*
Estkowski, Michael H., 3,476,393.
Freier, Gerald H., 3,442,514.
Hammond, Robert J., 3,429,580.
Hammond, Robert J., 3,438,558.
Hammond, Robert J., 3,484,057.
Ison, Robert C., 3,478,271.
Osborn, Lloyd, 3,485,459.
Rankin, John A., 3,439,300.
Rankin, John A.; and Freier, Gerald H., 3,452,993.
Rhoades, Robert B., 3,456,951.
Rhoades, Robert B., 3,472,516.
Smith, Douglas W., 3,485,498.

V-Plex Clutch Corporation: *See—*
Davis, Marion H., 3,448,818.

Vaandering, Ben J. Self-powered transistorized meter clamp circuit for extraneous pulses. 3,470,389, 9-30-69, Cl. 307-237.

Vac Pac Manufacturing Company, Inc.: *See—*
Perlman, Sol J., 3,478,952.

Vacca, Luigi; and Ferris, Donald L., to United Aircraft Corporation. Rotor blade pitch lock. 3,438,446, 4-15-69, Cl. 170-160.12

Vacca, Luigi; and Ferris, Donald L., to United Aircraft Corporation. Means and method of synchronously folding helicopter blades. 3,484,175, 12-16-69, Cl. 416-143.
Vacca, Luigi; and Zincone, Robert, to United Aircraft Corporation. Helicopter rotor with foldable blade. 3,428,132, 2-18-69, Cl. 170-160.12
Vaccaro, Angelo M.: *See*—
Peelle, Henry E., Jr.; Doeg, Paul R.; and Vaccaro, Angelo M.,3,436,863.
Dixon, Harold F. E.; and Vaccaro, Angelo,3,461,759.
Vaccaro, Angelo, to Columbia Controls Research Corporation. Chosen selection transmittal system. 3,423,732, 1-21-69, Cl. 340-166.
Vaccaro, Angelo, to Columbia Controls Research Corporation. Apparatus for measuring the quality of a printed character. 3,460,143, 8-5-69, Cl. 346-33.
Vaccaro, Angelo; and Dixon, Harold F. E., to Columbia Controls Research Corporation. Interconnected relay stations. 3,439,133, 4-15-69, Cl. 200-1.
Vachon, Jeannine C. M.; and Aubert, Henri N. Means for warning of the relative approach of an obstacle in the path of a vehicle. 3,437,988, 4-8-69, Cl. 340-51.
Vachon, Reginald I.: *See*—
Walker, Donald F.; Rice, Duane N.; Crowson, David H.; and Vachon, Reginald I.,3,470,873.
Vachuda, George W.: *See*—
Lafferty, William L., Jr.; Child, Edward T.; Estes, John H.; and Vachuda, George W.,3,440,301.
Vackar, Jiri, to Tesla, narodni podnik. Amplitude modulation circuit with high power efficiency for two amplifiers. 3,436,686, 4-1-69, Cl. 332-64.
Vaclaw, Mike M.: *See*—
Harvey, Robert R.; and Vaclaw, Mike M.,3,431,976.
Vaco Products Company: *See*—
McLogan, Russell E.; Silverstein, Raymond E.; and Szosteki, Walter J., 3,455,355.
Vacu-Blast Company, Inc.: *See*—
Cardon, Michael Alexandre Pierre, 3,448,544.
Vacu-Lift Maschinenbau-Gesellschaft mit beschrankter Haftung: *See*—
Glanemann, Rudolf, 3,431,010.
Vacuum Die Casting Corporation: *See*—
Bender, Joseph A., 3,451,330.
Vacuumatic Limited: *See*—
Senior, Kenneth, 3,436,529.
Vacuumschmelze Aktiengesellschaft: *See*—
Assmus, Fritz; Boll, Richard; Detert, Klaus; Ganz, Dietrich; Ibe, Gerhard; and Pfeifer, Friedrich, 3,466,201.
Vadala, Teodoro, to Fabbrica Italiana Magneti Marelli S.p.A. Electronic condenser discharge ignition circuit with automatic input recovery protection device, in particular, for vehicles. 3,443,556, 5-13-69, Cl. 123-148.
Vadas, John F.; and Joslyn, Edward P., to Crosman Arms Company, Inc. Projectile loading mechanism for air rifle. 3,463,136, 8-26-69, Cl. 124-11.
Vadas, Leslie, to FMC Corporation. Apparatus for contour peeling pineapple. 3,420,284, 1-7-69, Cl. 146-6.
Vadas, Leslie, to FMC Corporation. Pineapple strip peeling machine. 3,424,213, 1-28-69, Cl. 146-6.
Vadas, Leslie, to FMC Corporation. Pineapple strip peeling and coring machine. 3,424,214, 1-28-69, Cl. 146-6.
Vadas, Leslie, to FMC Corporation. Pineapple peeling and trimming method. 3,460,596, 8-12-69, Cl. 146-238.
Vadas, Leslie, to FMC Corporation. Case loading machine. 3,473,289, 10-21-69, Cl. 53-61.
Vadas, Leslie; and Drake, Robert W., to FMC Corporation. Container aligning jam detector. 3,452,651, 7-1-69, Cl. 93-36.
Vadas, Leslie; and Drake, Robert W., to FMC Corporation. Method and machine for forming and filling cartons. 3,456,419, 7-22-69, Cl. 53-29.
Vadseth, Jan. Arrangement for cleaning of a ship's hull of marine growth. 3,443,545, 5-13-69, Cl. 114-222.
Vadys Associates, Ltd.: *See*—
Epstein, Sidney; and Epstein, David, 3,451,039.
Vaesken, Roland: *See*—
Le Mehaute, Charles; Rocher, Edouard; Guesnier, Guy; and Vaesken, Roland,3,442,774.
Vaessen, Franz, to Hochtief A.G. fur Hoch- und Tiefbauten vorm Gebr. Helfmann, Firma. Lift slab support assembly. 3,468,084, 9-23-69, Cl. 52-126.
Vaessen, Franz, to Hochtief A.G. fur Hoch- und Tiefbauten vorm. Gebr. Helfmann, Firma. Lifting assembly for lift-slab-type building construction. 3,468,514, 9-23-69, Cl. 254-106.
Vagedes, Lawrence J.: *See*—
Bing, John H.; Vagedes, Lawrence J.; Luthman, Paul A.; and Colwill, Herbert W.,3,458,088.
Vagedes, Lawrence J.; and Bing, John H., to Avco Corporation. Feed controls for material unloaders. 3,430,818, 3-4-69, Cl. 222-178.
Vagenius, Harold N.: *See*—
Remer, Robert K.; and Vagenius, Harold N.,3,428,046.
Vagi, Julius J., to Stewart-Warner Corporation, mesne. Method and apparatus for welding an aluminum fin to a ferrous metal. 3,435,183, 3-25-69, Cl. 219-107.
Vagias, Ernest. Insert for piano bridge. 3,457,819, 7-29-69, Cl. 84-209.
Vaher, Eo: *See*—
Schneider, Joseph R.; Sharp, James K.; and Vaher, Eo,3,482,184.
Sharp, James K.; and Vaher, Eo,3,436,678.
Sharp, James K.; and Vaher, Eo,3,453,559.
Vahle, Raymond, to Continental Can Company, Inc. Carton closing machine. 3,468,101, 9-23-69, Cl. 53-376.
Vahle, Ronald W., to General Motors Corporation. Method for determining transistor voltage capability by decay time evaluation. 3,441,857, 4-29-69, Cl. 324—158
Vahlsing, Frederick H., Jr., to Vahlsing, Inc. Method of preparing vitamin A-fortified frozen potato products. 3,423,213, 1-21-69, Cl. 99-193.
Vahlsing, Inc.: *See*—
Vahlsing, Frederick H., Jr., 3,423,213.
Vahs, Wilhelm A.; and Noissinger, Werner, to Ott, A., G.m.b.H. Level recorder having tape punching means. 3,427,632, 2-11-69, Cl. 346-72.
Vahtra, Ulo: *See*—
Shattuck, Meredith D.; and Vahtra, Ulo,3,484,237.
Vaiden, John C., to Bendix Corporation, The. Electromechanical actuator for guided missile. 3,422,693, 1-21-69, Cl. 74-377.
Vaiden, John C., to Bendix Corporation, The. Solid state control wheel hub force sensor for control of an aircraft and operative to modify an automatic pilot control system for the aircraft. 3,473,760, 10-21-69, Cl. 244-83.
Vail, Ellen Marie Shannon. Hair and scalp all purpose applicator. 3,450,140, 6-17-69, Cl. 132-9.
Vail, Raymond S. Aid for spot bowlers. 3,455,032, 7-15-69, Cl. 35-29.
Vaillancourt, Robert M., to Thermacote Company. Air accessory for converting arc welder to cutter. 3,470,345, 9-30-69, Cl. 219-70.
Vainer, Savely Abramovich: *See*—
Vainer, Shimon Abramovich; and Vainer, Savely Abramovich,3,456,253.
Vainer, Shimon Abramovich; and Vainer, Savely Abramovich. Binary code-to-sine voltage phase converter. 3,456,253, 7-15-69, Cl. 340-347.
Vainshtein, Lazar Pinkhusovich: *See*—
Rebenok, Anatoly Georgievich; Budenkov, Valentin Nikolaevich; Mezentsev, Jury Grigorievich; Vainshtein, Lazar Pinkhusovich; Durachenko, Mikhail Ivanovich; and Kovdrya, Ivan Timofeevich,3,457,879.
Vajna, Sandor, to Dynamit Nobel Aktiengesellschaft. Ion exchange process. 3,448,043, 6-3-69, Cl. 210-32.
Vaka, James J.: *See*—
Carroll, Charles A.; and Vaka, James J.,3,450,757.
Vakaleris, Demetrius G., to National Dairy Products Corporation. Dried mix for cheesecake filling. 3,455,698, 7-15-69, Cl. 99-94.
Val, George. Apparatus for the production of round openings in workpieces. 3,468,197, 9-23-69, Cl. 77-79.
Val, George. Cutting tool. 3,470,597, 10-7-69, Cl. 29-95.
Val Mar Ltee: *See*—
Valois, Marcel L., 3,481,470.
Valayil, Sylvester P.: *See*—
Brown, Henry; Becking, Donald H.; and Valayil, Sylvester P.,3,432,408.
Valbjorn, Knud Vagn: *See*—
Leffers, Hans Ulrik; Valbjorn, Knud Vagn; and Holme, Bent Melchior Karlsen,3,484,822.
Valbjorn, Knud Vagn. Bearing arrangement for motor-compressor assemblies and the like. 3,447,738, 6-3-69, Cl. 230-58.
Valbjorn, Knud Vagn, to Danfoss A/S. Pedestal-supported encapsulated refrigerant motor-compressor unit. 3,454,213, 7-8-69, Cl. 230-58.
Larsen, Bendt W.; and Valbjorn, Knud V.,3,441,203.
Valbjorn, Knud V., to Danfoss A/S. Operative connection between a piston and a piston. 3,431,796, 3-11-69, Cl. 74-587.
Valbjorn, Knud V.; and Kjeldsen, Kjeld, to Danfoss A/S. Noise dampening in hermetic refrigerant compressors. 3,441,202, 4-29-69, Cl. 230-232.
Valbjorn, Knud V.; Kjeldsen, Kjeld; and Skog, Steinar, to Danfoss A/S. Pressure pipe for encapsulated refrigerating machine. 3,461,683, 8-19-69, Cl. 62-295.
Valbjorn, Knud V.; Larsen, Bendt Wegge; and Madsen, Anker Erik, to Danfoss A/S. Compressor especially for refrigerating machines. 3,459,364, 8-5-69, Cl. 230-58.
Valco Product Development, Inc.: *See*—
Benner, Russell E., 3,485,092.
Valcor Engineering Corporation: *See*—
Arnold, Kurt Herbert, 3,482,816.
Vald Henriksen A/S: *See*—
Nielsen, Hans Borge, 3,443,880.

Valdettaro, Alarcio A.: *See—*
Meadows, Stanley R.; Valdettaro, Alarcio A.; and Badger, Joe G.,3,457,379.
Valdre, Ugo. Device for heating, rotating and tilting a specimen in an electron microscope. 3,435,210, 3-25-69, Cl. 250-49.5
Valek, John: *See—*
Scaletta, Joseph A.; Miller, Roland E.; and Valek, John,3,435,653.
Valen, Jon-Olaf: *See—*
Van Weert, Gezinus; and Valen, Jon-Olaf,3,466,021.
Valensi, Jacques. Chimney for enhancing a marginal whirlwind. 3,422,742, 1-21-69, Cl. 98-60.
Valensi, Jacques. Fume evacuation hood. 3,451,326, 6-24-69, Cl. 98-115.
Valenta, Jiri: *See—*
Koubik, Milan; Kresta, Vaclav; and Valenta, Jiri,3,458,543.
Valente, Raymond L., to Manco Manufacturing Co. Straightening apparatus for tubes, rods and the like. 3,453,852, 7-8-69, Cl. 72-164.
Valenti, Peter, to Sargent Engineering Corporation. Double ball nut and screw actuator. 3,422,696, 1-21-69, Cl. 74-424.8
Valentijn, Herman P.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,473,758.
Valentin, Francois P.; Basso, Yves; and Rongier, Charles P., to Zeuthen & Aagaard A/S. Method and apparatus for producing a laminar printing form. 3,482,039, 12-2-69, Cl. 178-6.6
Valentine, Charles K.: *See—*
Pfeiler, William A.; and Valentine, Charles K.,3,419,935.
Valentine, Edward S., to Far-Best Corporation. Water soluble furans. 3,455,860, 7-15-69, Cl. 260-29.4
Valentine, Gordon A.: *See—*
Rivedal, John C.; and Valentine, Gordon A.,3,442,473.
Valentine, Harry McWalter. Fluid pressure control valve. 3,428,070, 2-18-69, Cl. 137-102.
Valentine, Harry M., to Bendix-Westinghouse Automotive Air Brake Company. Clamp type rotochamber. 3,424,064, 1-28-69, Cl. 92-101.
Valentine, Harry M., to Bendix-Westinghouse Automotive Air Brake Company. Fluid pressure control valve. 3,439,696, 4-22-69, Cl. 137-108.
Valentine, Harry M.; Stoudt, George W.; and Kemble, Herbert A., to Bendix-Westinghouse Automotive Air Brake Company. Relay emergency valve. 3,456,991, 7-22-69, Cl. 303-29.
Valentine, Lamar T., 50% to Parker, Joseph L.360° Vacuum seal control for internal pipeline line-up clamp. 3,458,105, 7-29-69, Cl. 228-44.
Valentine, Lamar T., 50% to Parker, Joseph L. Vacuum supply for internal pipeline line-up clamp seal space. 3,458,106, 7-29-69, Cl. 228-44.
Valentine, Norman Stanley. Apparatus for feeding laundered sheets. 3,468,532, 9-23-69, Cl. 271-69.
Valentine, Sidney L.: *See—*
Gunderson, Robert O.; Valentine, Sidney L.; Jurick, Martin H.; and Higashi, Paul,3,426,328.
Valentinotti, Aldo: *See—*
Boschi, Antonio F.; and Valentinotti, Aldo,3,426,937.
Valenziano, Frank P., to Interpace Corporation. Shell cutter. 3,430,526, 3-4-69, Cl. 77-69.
Valenziano, Frank P., to Interpace Corporation. Pipe joint. 3,432,176, 3-11-69, Cl. 277-168.
Valeron Corporation, The: *See—*
Milewski, Victor; and Yogus, William, 3,433,104.
Valeska, John J., to Ritter Pfaudler Corporation. Infinite positioning mechanism for a movable arm. 3,436,046, 4-1-69, Cl. 248-284.
Valeska, John J.; Spencer, Donald N.; and Kummer, Edson L., to Sybron Corporation. Fluid control system for dental instruments. 3,461,561, 8-19-69, Cl. 32-28.
Valet, Gerhard: *See—*
Rohrborn, Hans-Joachim; Clausen, Heinrich; Grassmann, Wolfgang; and Valet, Gerhard,3,432,324.
Valicenti, John A.: *See—*
Stark, Forrest O.; Valicenti, John A.; and Vogel, George E.,3,453,193.
Valid Data Corporation: *See—*
Woolam, Frank J., 3,421,072.
Valihura, Robert J.: *See—*
Grimm, James J.; and Valihura, Robert J.,3,442,037.
Valin, Gilbert: *See—*
Galey, Jean; and Valin, Gilbert,3,443,806.
Valiulis, Stanley J. Door catches. 3,455,589, 7-15-69, Cl. 292-1.
Valk, Donald B., to Wel-Kids, Inc. Doorknob safety locks. 3,428,351, 2-18-69, Cl. 292-347.
Vallak, Enn; and Eketorp, Sven Gustaf Harald. Continuous casting method and arrangement. 3,450,188, 6-17-69, Cl. 164-82.
Vallalat: *See—*
Viltschek, Endre; and Gal, Laszlo, 3,427,846.
Vallante, Thomas E.: *See—*
Leath, Colin W.; Waldman, Myron R.; and Vallante, Thomas E.,3,476,910.
Vallas, Theodore L. Telephone light. 3,448,258, 6-3-69, Cl. 240-2.
Vallas, Theodore L. Golf course. 3,464,703, 9-2-69, Cl. 273-176.
Vallauri, Maurizio: *See—*
Parodi, Luciano; and Vallauri, Maurizio,3,457,444.
Valle, Joseph: *See—*
Michalke, Richard E.; Valle, Joseph; and Grant, Melvin M.,3,458,875.
Valle, Louis J., to National Tel-Tronics Corporation. Resilient push button terminal. 3,478,304, 11-11-69, Cl. 339-203.
Valle, Louis J.; and Hoegrel, Otto, to National Tel-Tronics Corporation. Anode connector. 3,431,544, 3-4-69, Cl. 339-256.
Valleau, Robert L.: *See—*
Auer, William F.; Bonovitz, James J.; and Valleau, Robert L.,3,451,019.
Vallee, John A., to Radio Corporation of America. Conversion from NRZ code to self-clocking code. 3,422,425, 1-14-69, Cl. 340-347.
Vallee, John A., to RCA Corporation. Conversion from self-clocking code to NRZ code. 3,452,348, 6-24-69, Cl. 340-347.
Vallee, John A.; and Kato, Koji, to Radio Corporation of America. Conversion from self-clocking code to NRZ code Device for binding the heel part of a ski shoe. 3,448,445, 6-3-69, Cl. 280-11.35
Vallee, Johnny A.: *See—*
Turecki, Anatole; and Vallee, Johnny A.,3,482,172.
Vallese, Lucio M., to International Telephone and Telegraph Corporation. Folded monopole antenna with top loading and lumped inductance at bottom. 3,484,787, 12-16-69, Cl. 343-751.
Valleteau de Moulliac, Guy, to Societe Generale Isothermos. Buffer, no tably for railway vehicles. 3,473,796, 10-21-69, Cl. 267-1.
Valley Metallurgical Processing Company: *See—*
French, Fred W., 3,422,518.
Valley Metallurgical Processing Company Incorporated: *See—*
Evans, Thomas R.; and Gesick, Norman S., 3,447,950.
Valley, Richard B.; and Morse, Theodore H., to Coulter Electronics, Inc., mesne. Particle length measuring apparatus. 3,441,848, 4-29-69, Cl. 324-71.
Valley Tow-Rite, Inc.: *See—*
Warner, Richard E., 3,463,514.
Valliere, Edward G.; and Ostrander, John M. Electrical probe device having a plurality of adjustable contacting elements for testing transistors and the like. 3,445,766, 5-20-69, Cl. 324-72.5
Vallor, Ben J.: *See—*
Meeker, David A.; Grunewald, Ernst; and Vallor, Ben J.,3,465,761.
Valmet OY: *See—*
Lehtinen, Antti Ilmari, 3,442,756.
Meskanen, Olavi Herman, 3,447,451.
Villa, Tapio, 3,468,756.
Valmont Industries, Inc.: *See—*
Karmann, Thomas R., 3,454,224.
Valois, Marcel L., to Val Mar Ltee. Combined skimmer and filter for swimming pools. 3,481,470, 12-2-69, Cl. 210-169.
Valometer Sales Co.: *See—*
Ringholz, Robert C., 3,477,371.
Valspar Corporation: *See—*
Orthober, Frank J., 3,458,035.
Valster, Frederik: *See—*
Le Mair, Willem; Peek, Johannes Bernard Heinrich; and Valster, Frederik,3,440,653.
Valtchev, Alexander J.; and Valtcheva, Temenushka Nikolova, to Metalurgitschen Zavod 'Lenin'. Method of coating carbon bodies and the resulting products. 3,476,586, 11-4-69, Cl. 117-71.
Valtcheva, Temenushka Nikolova: *See—*
Valtchev, Alexander J.; and Valtcheva, Temenushka Nikolova,3,476,586.
Valtri, Frank J.; and Still, James M., Jr. Expandable container. 3,434,589, 3-25-69, Cl. 206-46.
Valus, James K., to General Motors Corporation. Tuned friction damper. 3,479,906, 11-25-69, Cl. 74-574.
Valvassori, Alberto: *See—*
Natta, Giulio; Mazzanti, Giorgio; Pregaglia, Gianfranco; Valvassori, Alberto; and Sartori, Guido,3,483,173.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; Dall'Asta, Gino; and Sartori, Guido,3,453,250.
Natta, Giulio; Mazzanti, Giorgio; Valvassori, Alberto; and Sartori, Guido,3,476,720.
Valvassori, Alberto; Cameli, Nazzareno; and Sartori, Guido, to Montecatini Edison S.p.A. Copolymers of ethylene, higher alpha-olefins and cyclohexenonorbornenes. 3,467,631, 9-16-69, Cl. 260-79.5
Valvassori, Alberto; and Sartori, Guido, to Montecatini Edison S.p.A. Vulcanizable olefin copolymers and process for prearing them. 3,444,146, 5-13-69, Cl. 260-79.5
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto,3,453,247.
Sartori, Guido; Cameli, Nazzareno; and Valvassori, Alberto,3,470,142.
Valve Corporation of America: *See—*
Chambers, Charles D., 3,477,195.
Kuffer, Clarence O., 3,420,415.
Lipman, Elmer, 3,422,996.
McAvoy, Thomas, 3,472,457.
O'Donnell, William R., 3,473,704.

O'Donnell, William R.; and Banyacsky, Arthur J., 3,474,939.
Valvo, Joseph F.: *See—*
Ponstingl, John C.; and Valvo, Joseph F.,3,423,657.
Valyi, Emery I.: *See—*
Burne, Frederick A., 3,440,976.
Valyi, Emery I., to Olin Mathieson Chemical Corporation. Composite porous structure. 3,421,577, 1-14-69, Cl. 165-170.
Valyi, Emery I., to Olin Mathieson Chemical Corporation. Heating unit. 3,428,126, 2-18-69, Cl. 165-170.
Valyi, Emery I., to Molins Machine Company, Inc., mesne. Apparatus for making plastic tubes. 3,438,086, 4-15-69, Cl. 18-5.
Valyi, Emery I., to Olin Mathieson Chemical Corporation. Compound metal structure. 3,452,783, 7-1-69, Cl. 138-177.
Valyi, Emery I., to Olin Mathieson Chemical Corporation. Cylindrical porous metal structure. 3,460,612, 8-12-69, Cl. 165-170.
Valyi, Emery I. Method for reducing edge cracking during rolling of metal shapes. 3,477,271, 11-11-69, Cl. 72-365.
Vamco Machine and Tool, Inc.: *See—*
Eyberger, Harry, 3,483,782.
Van Arnam, Donald E.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,421,549.
Van-Air Incorporated: *See—*
Wellman, Fredrick, 3,483,673.
Van-L, Ltd.: *See—*
Sundstrom, Raul D., 3,439,429.
Van-Tran, Nguyen: *See—*
Patel, Chandra K. N.; and Van-Tran, Nguyen,3,461,403.
Van Ackeren, Joseph, to Koppers Company, Inc. Heating high chambered horizontal coke ovens. 3,433,715, 3-18-69, Cl. 202-135.
van Albedyll, Joachim; and Hennig, Fridoin, to Agfa-Gevaert Aktiengesellschaft. Camera with photoflash unit. 3,452,659, 7-1-69, Cl. 95-11.5
Van Allan, James A.: *See—*
Ammons, James William; Mauer, Paul Bernard; Reynolds, George A.; and Van Allan, James A.,3,462,706.
Van Alsburg, Jerold H. Materials handling and treating system. 3,430,308, 3-4-69, Cl. 25-2.
Van Alsten, Roy L.: *See—*
Whalen, Thomas J.; and Van Alsten, Roy L.,3,462,251.
Whalen, Thomas J.; and Van Alsten, Roy L.,3,481,715.
Van Anrooy, John A.: *See—*
Lewis, Richard L.; Van Anrooy, John A.; and Smith, Donald W.,3,462,200.
Vananzi, Joseph M., to Continental-Wirt Electronics Corporation. Multiposition slide switch. 3,461,252, 8-12-69, Cl. 200-16.
Van Arsdale, Lyle R.: *See—*
Grove, Marvin H.; and Van Arsdale, Lyle R.,3,423,988.
Van Ausdall, Carl. Bed plate adjustment means relative to a lawnmower reel. 3,461,656, 8-19-69, Cl. 56-249.
van Baak, Carel C. Method and apparatus for fire control. 3,463,234, 8-26-69, Cl. 169-2.
Van Baalen Heilbrun & Co., Inc.: *See—*
Zucker, Robert D.; and Cooper, George G., 3,466,779.
Van Baardewijk, Adam Pieter Hendrik: *See—*
Pot, Hendrik; and Van Baardewijk, Adam Pieter Hendrik,3,460,692.
Van Baarn, Paul S. Bottle cap. 3,441,161, 4-29-69, Cl. 215-40.
Van Baelen, Armand Robert, to AMP Incorporated. Terminal junction system for electrical conductors. 3,471,822, 10-7-69, Cl. 339-18.
van Bavel, Cornelius H. M.; and Jackson, Ray D., to United States of America, Agriculture. Survival still for obtaining potable water. 3,436,313, 4-1-69, Cl. 202-83.
van Beek, Herman W.: *See—*
Lin, Hung Chang; and van Beek, Herman W.,3,448,397.
van Beek, Herman W., to Westinghouse Electric Corporation. Punch-through means integrated with MOS type devices for protection against insulation layer breakdown. 3,469,155, 9-23-69, Cl. 317-235.
Van Bennekom, Carl F., to General Electric Company. Panel meter mounting device. 3,438,603, 4-15-69, Cl. 248-27.
Van Benthuysen, John D.; and Barden, Wayne A., to CTS Corporation. Method of making an electrical control. 3,469,311, 9-30-69, Cl. 29-620.
van Benthuysen, John D.; and English, Jack A., to CTS Corporation. Mounting bracket for electrical component. 3,421,133, 1-7-69, Cl. 338-174.
Van Bergeijk, Jan, to American Enka Corporation. Process for polymerizing caprolactam. 3,450,679, 6-17-69, Cl. 260-78.
van Berkel, Petrus Ludovicus Maria; and Spanjersberg, Arie Adriaan, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Information bearer and photo-electric reading device therefor. 3,437,793, 4-8-69, Cl. 235-61.7
Van Blaricom, Lloyd Eugene; and Johnston, Frederic Alan, to ITT Rayonier Incorporated. Complex polymeric product and process. 3,431,202, 3-4-69, Cl. 252-8.5
Van Blerkom, Richard: *See—*
Keeler, Robert E.; Freeman, Don G.; and Van Blerkom, Richard,3,473,132.
Van Bochove, Cornelis; Hueck, Hendrik J.; and Wittcoff, Harold, to General Mills, Inc. Rendering cellulosic articles antimicrobial through treatment with quaternary ammonium com- pounds having a reactive methylolamide group. 3,453,067, 7-1-69, Cl. 8-116.2
van Boort, Henricus Johannes Joseph; and Jacobs, Cornelis Adrianus Joannes, to U.S. Philips Corporation, mesne. Mercury vapour discharge lamp. 3,484,637, 12-16-69, Cl. 313-25.
van Bosse, John G., to Automatic Electric Laboratories, Inc. Monitoring apparatus employing magnetic sensing devices. 3,461,247, 8-12-69, Cl. 179-18.
Van Bouwel, Leo Paul: *See—*
Cauwe, Andre Paul; and Van Bouwel, Leo Paul,3,435,749.
Van Bouwel, Leo Paul; and Tack, Willy Pieter, to Gevaert-Agfa, N.V. Dryer for a film processing machine. 3,435,539, 4-1-69, Cl. 34-160.
van Brabant, Jozef Maria: *See—*
Lens, Georges Xavier; van Brabant, Jozef Maria; and Hendrickx , Franciscus Joannes Julia,3,429,460.
Van Brakel, Russel A., to Haverberg Auto Laundry Co., Inc. Vehicle conveyor. 3,474,739, 10-28-69, Cl. 104-172.
Van Breen, Adriaan W.: *See—*
Krol, Lambertus H.; Van Breen, Adriaan W.; and De Jong, Martijn H.,3,471,432.
Van Brode Milling Co., Inc.: *See—*
Colarusso, Augustine L.; and Hushen, Frederick, 3,465,911.
Van Brunt, Corwin L. Trash removing device. 3,485,305, 12-23-69, Cl. 172-39.
van Buren, Harold S., Jr., to United-Carr Incorporated, mesne. Fractional turn clip. 3,436,108, 4-1-69, Cl. 287-189.35
Van Buren, Harold S., Jr.: *See—*
Shears, Stuart T.; and Van Buren, Harold S., Jr.,3,451,066.
Van Buren, Ned Scott: *See—*
Paget, Fredrick W.; and Van Buren, Ned Scott,3,479,560.
Van Burleigh, Johannes Balfour; and Breas, Cornelia. Method of orienting net-like nonwoven fabrics. 3,466,359, 9-9-69, Cl. 264-290.
Van Buskirk, Ernest M., to International Harvester Company. Air chute for axial combine. 3,481,343, 12-2-69, Cl. 130-27.
Van Buskirk, Mark; and Bland, Larry I., to Mallory, P. R., & Co., Inc. Capacitor terminal connection. 3,439,232, 4-15-69, Cl. 317-230.
Vancamp, Raymond M.: *See—*
Bohl, Lester E.; and Vancamp, Raymond M.,3,449,450.
Vance, John James: *See—*
Carstensen, Jens Thuroe; Newmark, Harold Leon; and Vance, John James,3,450,821.
Carstensen, Jens Thuroe; Sheth, Prabhakar Ranchhordas; and Vance, John James,3,487,152.
Vance, Norma J.: *See—*
Myers, Thomas E., 3,436,257.
Vance, Paul E.: *See—*
Brown, Thomas L.; and Vance, Paul E.,3,439,112.
Vance, Robert E.: *See—*
Hays, John D.; and Vance, Robert E.,3,481,535.
Vance, Robert S.: *See—*
Neumann, Donald F.; Blumenthal, John; Vance, Robert S.; and Dand, Edward C.,3,453,610.
Vance, Woodrow P. Fluent material mixing and dispensing apparatus. 3,424,349, 1-28-69, Cl. 222-145.
Vancil, Donald Otis; and Harrison, Maurice Clark, to Reynolds Metals Company. Beneficiation of cryolite material. 3,457,150, 7-22-69, Cl. 204-67.
Vancil, Donald Otis; and Harrison, Maurice Clark, to Reynolds Metals Company. Beneficiation of cryolite material. 3,485,579, 12-23-69, Cl. 23-88.
Vancil, Donald Otis; and Harrison, Maurice Clark, to Reynolds Metals Company. Beneficiation of cryolite material. 3,486,845, 12-30-69, Cl. 23-88.
Van Cleaf, Ronald F., to Westinghouse Electric Corporation. Short-arc lamp having an improved prefocus base, and method of prefocusing said base. 3,454,810, 7-8-69, Cl. 313-214.
Van Cleave, George W., to International Business Machines Corporation. Drive circuits for stepping motor including rapid current build-up means. 3,486,096, 12-23-69, Cl. 318-138.
Vancouver Island Helicopters Ltd.: *See—*
Taylor, Robert P., 3,485,151.
Van Daalen, Francois; Van Domselaar, Hans R.; and Hooykaas, Henricus, to Shell Oil Company. Oil production by dual fluid injection. 3,467,191, 9-16-69, Cl. 166-269.
Van Daalen, Leendert, to N.V. Plastic Industrie van Daalen. Stackable container constituted by a cardboard outer container and a plastic inner container. 3,463,378, 8-26-69, Cl. 229-14.
Van Daelen, Henri Jean Gerard Marie, to U.S. Philips Corporation. Device having a glow-discharge indicator tube for reproducing signs and glow-discharge tube for use in such a device. 3,479,547, 11-18-69, Cl. 313-109.5

Vandalarm Security Systems, Inc.: *See—*
Cotter, William L.; and Reiss, Martin H., 3,471,846.
Van Dale Corporation: *See—*
Buschbom, Floyd E., 3,433,204.
Buschbom, Floyd E., 3,438,123.
Buschbom, Floyd E., 3,460,688.
Buschbom, Floyd E., 3,481,496.
van Dalen, Christiaan Johannes, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Rhythmic telecommunication system with automatic error correction using one service signal. 3,462,550, 8-19-69, Cl. 178-23.
vanDalen, Christiaan Johannes, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Information bearer and reading device therefor. 3,469,237, 9-23-69, Cl. 340-146.3
Van Dalen, Christiaan Johannes: *See—*
Van Duuren, Hendrik Cornelis Anthony; Van Dalen, Christiaan Johannes; and Da Silva, Herman,3,461,238.
van Damme-van Weele, Marina Adriana; and Bernardus, Gerardus, to N.V. Koninklijke Nederlandsche Zoutindustrie. Dry stabilized dithionite compositions. 3,468,623, 9-23-69, Cl. 23-116.
Van Damme-van Weele, Marina Adriana; and de Groot, Dirk Cornelis, to N.V. Koninklijke Nederlandsche Zoutindustrie. Dry stabilized alkali metal dithionite compositions. 3,433,590, 3-18-69, Cl. 23-116.
Vandaveer, Roscoe F.: *See—*
Gum, Earl R.; and Vandaveer, Roscoe F.,3,460,621.
Palm, John W.; and Vandaveer, Roscoe F.,3,477,810.
van de Bilt, Pieter Arnoldus, to Metaverpa N.V. Apparatus for associating objects and wrapping material. 3,486,293, 12-30-69, Cl. 53-66.
Van de Castle, John F.; and Wiese, Herbert K., to Esso Research and Engineering Company. Sulfur-curable polymers. 3,438,951, 4-15-69, Cl. 260-80.78
Van De Hey, Roche J.: *See—*
Waleson, Frederik R.; and Van De Hey, Roche J.,3,426,914.
Van De Kerkhof, Lodevicus Lambertus Johannes, to AMP Incorporated. Electrical connector crimping apparatus. 3,481,018, 12-2-69, Cl. 29-203.
van de Kerkhof, Lodevicus Lambertus Johannes; and de Vries, Joseph Gerardus Maria, to AMP Incorporated. Stripping and crimping apparatus. 3,479,718, 11-25-69, Cl. 29-203.
van de Meerendonk, Gerardus Cornelis, to Nedschroef Octrooi Maatschappij N.V. Machine for cutting internal thread in perforated objects. 3,477,077, 11-11-69, Cl. 10-139.
van de Mond, Theodorus J., to Stamicarbon N.V. Vapor-phase catalytic oxidation of toluene to benzaldehyde. 3,485,876, 12-23-69, Cl. 260-599.
Vande Sande, George, to CTP Industries, Inc. Bag and handle means. 3,451,613, 6-24-69, Cl. 229-54.
Vande Wege, John R., to Automatic Electric Laboratories, Inc. Seizure and hold circuits for a communication switching network. 3,427,405, 2-11-69, Cl. 179-18.
Vande Wege, John R., to Automatic Electric Laboratories, Inc. Call-for-service circuits of communication switching marker. 3,452,159, 6-24-69, Cl. 179-27.
Vandegaer, Jan E.; and Meier, Frank G., to Pennwalt Corporation. Process for encapsulation. 3,464,926, 9-2-69, Cl. 252-316.
Van Delic, Vukasin. Solar air moving system. 3,436,908, 4-8-69, Cl. 60-26.
Vandeman, Jack E.; and Seel, Howard J., to Harris-Intertype Corporation. Multiple couple printing press with controls for sequential and simultaneous cylinder interruption. 3,473,468, 10-21-69, Cl. 101-137.
Vandeman, Jack E.: *See—*
Stotzer, Roger H.; Lee, William H.; and Vandeman, Jack E.,3,467,007.
Vandemore, James J.; and Henry, Donald E., to Bliss, E. W., Company. Timing circuit method and apparatus. 3,466,472, 9-9-69, Cl. 307-293.
Van Den Berg, Cornelis E. P. V., to Stamicarbon N.V. Process for the preparation of high molecular weight polymers of conjugated dienes. 3,476,733, 11-4-69, Cl. 260-94.3
van den Berg, Cornelis E. P. V.; and Fidder, Roelof, to Stamicarbon N.V. Copolymerization of alpha-olefins and dienes by Ziegler-Natta type catalysts formed in the presence of unsaturated polymers. 3,472,823, 10-14-69, Cl. 260-80.78
Vanden Berg, Gray E.: *See—*
Nelson, Norman A.; and Vanden Berg, Gray E.,3,462,473.
van den Berg, Racime J., to International Business Machines Corporation. Magnetic tape duplicating device with fluid pressure applied through head gap. 3,472,971, 10-14-69, Cl. 179-100.2
Van Den Biggelaar, Paul V. M., to American Enka Corporation. Spinneret assembly. 3,479,692, 11-25-69, Cl. 18-8.
Van Den Boom, Martinus Adriaan: *See—*
Bok, Cornelis; Selling, Hendrik Johannes; and Van Den Boom, Martinus Adriaan,3,447,310.
van den Bosch, Francois J. G. Microscope system and reservoir for chemical preparations. 3,482,898, 12-9-69, Cl. 350-95.
van den Brink, Jan, to Reactor Centrum Nederland. Vibration dampers. 3,464,290, 9-2-69, Cl. 74-574.
Van Den Broek d'Obrenan, Gerard Marie Edouard; and Mercier, Jean-Francois Marie Maurice Edmond, to International Standard Electric Corporation. Doppler radars. 3,441,930, 4-29-69, Cl. 343-7.7
Van den Broek, Jan A.: *See—*
Crabtree, Lloyd O.; and Van den Broek, Jan A.,3,427,634.
van den Bussche, Willem, to North American Philips Company, Inc. Guide plate for magnetic tape. 3,432,084, 3-11-69, Cl. 226-197.
Vanden Eynde, Hector Alfons; Pollet, Robert Joseph; and De Cat, Arthur Henri, to Gevaert-Agfa N.V. Color photography utilizing 1-fluoroalkyl-2- pyrazoline-5-one colour couplers. 3,462,270, 8-19-69, Cl. 96-56.5
van den Hende, Johannes Henricus, to American Cyanamid Company. Electrical circuitry. 3,483,551, 12-9-69, Cl. 346-33.
Van Den Heuvel, Raymond: *See—*
Sander, Wendell B.; and Van Den Heuvel, Raymond,3,440,639.
Van den Heuvel, Walter August; Vanhaist, Johan Eugeen; Van Engerland, Jozef Leonard; and De Volder, Noel Jozef, to Gevaert Photo-Producten, N.V. Erasure-proof development of electrostatic images. 3,432,329, 3-11-69, Cl. 117-37.
Van den Heuvel, Walter August; Vanhalst, Johan Eugeen; Van Engeland, Jozef Leonard; and DeVolder, Noel Jozef, to Gevaert Photo-Producten N.V. Erasure-proof development of electrostatic patterns. 3,441,426, 4-29-69, Cl. 117-37.
Van den Honert, Taco H.: *See—*
Plummer, William B.; Van den Honert, Taco H.; and Wilson, Melvin G.,3,479,026.
van den Kieboom, Johannes L.: *See—*
Sattler, Robert I.; Joichi, Paul T.; and van den Kieboom, Johannes L.,3,473,269.
Van Den Nieuwenhof, Ronald A.; and Romani, Edward P., to Air-Shields, Inc. Blood pressure monitoring apparatus. 3,452,744, 7-1-69, Cl. 128-2.05
Van Den Steen, Antoine, to Ugine Kuhlmann, (Societe Anonyme), mesne. Powdered metals. 3,450,525, 6-17-69, Cl. 75-84.5
Vandenberg, Edward. Drying device for a printing press. 3,446,142, 5-27-69, Cl. 101-178.
Vandenberg, Edwin James, to Hercules Incorporated. Polymers of epoxy cyclic sulfones. 3,476,718, 11-4-69, Cl. 260-79.3
Vandenberg, Edwin J., to Hercules, Incorporated. Polymerization of vinyl chloride. 3,422,082, 1-14-69, Cl. 260-92.8
Vandenberg, Edwin J., to Hercules Incorporated. Diol of poly(butene-2-oxide)s. 3,429,834, 2-25-69, Cl. 260-2.
Vandenberg, Edwin J., to Hercules Incorporated. High molecular weight hydroxyl-containing polyethers. 3,446,757, 5-27-69, Cl. 260-2.
Vandenberg, Edwin J., to Hercules Incorporated. Hydroxyl-ended epihalohydrin polymers. 3,450,774, 6-17-69, Cl. 260-615.
Vandenberg, Edwin J., to Hercules Incorporated. Dithiols of poly(thioethers). 3,484,418, 12-16-69, Cl. 260-79.
Vandenberg, Edwin J.; and Willis, William D., to Hercules Incorporated. Cross-linking epihalohydrin polymers with thiazoline-2-thiones. 3,474,045, 10-21-69, Cl. 260-2.
Vandenberghe, Antoon Leon: *See—*
Willems, Jozef Frans; and Vandenberghe, Antoon Leon,3,438,777.
Vandenbussche, Gerard, to Commissariat a l'Energie Atomique. Sonic analyzer. 3,434,334, 3-25-69, Cl. 73-24.
Van Denend, Herbert, to Infra-Red Systems, Inc. Apparatus for treating material in web or sheet form. 3,440,737, 4-29-69, Cl. 34-155.
van der Bosch, Rinaldo. Cosmetic package. 3,431,919, 3-11-69, Cl. 132-79.
van der Burg, Willem Jacob, to Organon Inc. Preparation of hydroxamic acids. 3,468,936, 9-23-69, Cl. 260-500.5
Van Der Burgt, Cornelis Martinus, to North American Philips Company, Inc. Welding apparatus provided with a vibrating contact tip. 3,436,005, 4-1-69, Cl. 228-1.
van der Burgt, Cornelis Martinus, to U.S. Philips Corporation, mesne. Ultrasonic delay devices. 3,475,704, 10-28-69, Cl. 333-30.
van der Drift, Johan: *See—*
Boerma, Hiepke; and van der Drift, Johan,3,472,906.
Van Der Eijcken, Cyriel Alfons Maria: *See—*
Godefroi, Erik Fred; and Van Der Eijcken, Cyriel Alfons Maria,3,485,917.
Van der Ende, Entje T. Hoist device for dump trucks. 3,433,457, 3-18-69, Cl. 254-86.
Van der Grinten N.V.: *See—*
Marcelissen, Franciscus Hendrikus, 3,476,480.
Vander Haagen, Gary A., to General Motors Corporation. Magnetic core flip-flop circuit. 3,471,709, 10-7-69, Cl. 307-88.
Van Der Heem, Peter, to Koppers Company, Inc. Method of removing water from salt solutions. 3,424,677, 1-28-69, Cl. 210-59.
Van Der Heide, Henry: *See—*
Page, Ralph E.; and Van Der Heide, Henry,3,460,515.
Van Der Heyden, Gabriel J. M.: *See—*
Westlake, Frank M.; and Van Der Heyden, Gabriel J. M.,3,454,002.

van der Hilst, Jan, to North American Philips Company, Inc. Cylindrical drum. 3,431,617, 3-11-69, Cl. 29-123.
Van der Hoeven, Hendrik Adriaan, to N.V. Koninklijke Maatschappij 'De Schelde'. Shipbuilding yard and method for building and launching ships or similar floatable bodies. 3,478,525, 11-18-69, Cl. 61-64.
van der Hoeven, Willem R.: *See*—
Fitzpatrick, John T.; and van der Hoeven, Willem R.,3,483,224.
Vander Horn, John, to International Telephone and Telegraph Corporation. Air to ground radar target identification system. 3,427,612, 2-11-69, Cl. 343-6.5
Van der Horst, Johannes Martinus Arnold, to Surface Research, Incorporated. Chromium electroplating bath including mist suppressors. 3,423,297, 1-21-69, Cl. 204-51.
Van der Hulse, Kenneth I. Sprinkler hose construction. 3,459,377, 8-5-69, Cl. 239-394.
Vander Laan, Richard W.: *See*—
Martini, Douglas H.; Snow, Frederick O., III; and Vander Laan, Richard W.,3,455,467.
Van der Laarse, Jan Willem: *See*—
Ahsmann, Gerardus Josephus Marie; Meyer, Hans Jachim Gustav; and Van der Laarse, Jan Willem,3,439,209.
Ahsmann, Gerardus Josephus Maria; Lothaller, Wolfgang Erich; Meyer, Hans Joachim Gustav; and van der Laarse, Jan Willem,3,473,070.
van der Leest, Binne, to Westinghouse Electric Corporation. Semiconductor integrated circuit including a bidirectional transistor and method of making the same. 3,483,446, 12-9-69, Cl. 317-235.
van der Lely, Ary; and Bom, Cornelis Johannes Gerardus. Implements for spreading powdered or granular materials. 3,425,627, 2-4-69, Cl. 239-73.
van der Lely, C., N.V.: *See*—
van der Lely, Cornelis, 3,422,582.
van der Lely, Cornelis; and MacKinnon, Ian Archie, 3,461,578.
van der Lely, Cornelis; and Nieuwenhoven, Hendricus Jacobus Cornelis, 3,470,660.
Winkel, Jan; and van der Lely, Cornelis, 3,466,860.
van der Lely, Cornelis, van der Lely, C., N.V. Multilevel building with stairway. 3,422,582, 1-21-69, Cl. 52-79.
van der Lely, Cornelis. Collection and storage containers for liquid and semi-liquid materials. 3,425,671, 2-4-69, Cl. 259-122.
van der Lely, Cornelis. Rotary wheel raking device. 3,438,185, 4-15-69, Cl. 56-377.
van der Lely, Cornelis. Implements for working crop lying on the ground. 3,447,294, 6-3-69, Cl. 56-372.
van der Lely, Cornelis, to Texas Industries, Inc. Rake wheels. 3,447,295, 6-3-69, Cl. 56-400.
van der Lely, Cornelis, to Lely Ltd. Apparatus for the storage and spreading of liquid and semi-liquid substances. 3,447,787, 6-3-69, Cl. 259-95.
van der Lely, Cornelis. Threshing machines. 3,448,566, 6-10-69, Cl. 56-21.
van der Lely, Cornelis, to Texas Industries, Inc. Agricultural vehicles. 3,448,568, 6-10-69, Cl. 56-351.
van der Lely, Cornelis, to Texas Industries, Inc. Agricultural vehicles. 3,448,879, 6-10-69, Cl. 214-522.
van der Lely, Cornelis. Device for feeding crop to a storage location or a conveyor. 3,455,608, 7-15-69, Cl. 302-37.
van der Lely, Cornelis, to Texas Industries Inc. Agricultural machines. 3,461,655, 8-19-69, Cl. 56-208.
van der Lely, Cornelis. Prefabricated buildings. 3,466,818, 9-16-69, Cl. 52-79.
van der Lely, Cornelis. Harvesting machines. 3,468,107, 9-23-69, Cl. 56-23.
van der Lely, Cornelis. Threshing machines. 3,472,235, 10-14-69, Cl. 130-27.
van der Lely, Cornelis, to Texas Industries, Inc. Combine harvester. 3,478,499, 11-18-69, Cl. 56-23.
van der Lely, Cornelis. Prefabricated section of a wall, floor or roof. 3,484,999, 12-23-69, Cl. 52-79.
van der Lely, Cornelis; and MacKinnon, Ian Archie, van der Lely, C., N.V. V-plow with hitch. 3,461,578, 8-19-69, Cl. 37-43.
van der Lely, Cornelis; and Nieuwenhoven, Hendricus Jacobus Cornelis. Prefabricated building section with wall, floor and ceiling components cast in profiled edge beams. 3,442,056, 5-6-69, Cl. 52-79.
van der Lely, Cornelis; and Nieuwenhoven, Hendricus Jacobus Cornelis, van der Lely, C., N.V. Prefabricated building sections and spaced foundation beams. 3,470,660, 10-7-69, Cl. 52-79.
van der Lely, Cornelis: *See*—
Winkel, Jan; and van der Lely, Cornelis,3,466,860.
van der Lely, Piet, to U.S. Philips Corporation, mesne. Tone arm to cartridge connection for phonographs. 3,439,920, 4-22-69, Cl. 274-24.
van der Linde, Leendert Maarten: *See*—
Toet, Hans Jacques; Maessen, Jan Theodor Marie Francois; and van der Linde, Leendert Maarten,3,461,085.
Van Der Maaden, Johan, to U.S. Philips Corporation, mesne. Mechanism for producing intermittent rotation. 3,456,521, 7-22-69, Cl. 74-436.
van der Maesen, Felix: *See*—
Diemer, Gesinus; and van der Maesen, Felix,3,436,619.
Diemer, Gesinus; and van der Maesen, Felix,3,436,620.
Van der Meer, Samuel; Kruyt, Willem; and Pouwels, Hendrik, to ACF Chemiefarma N.V. Method for treating fascioliasis. 3,482,016, 12-2-69, Cl. 424-127.
Van Der Meer, Samuel; and Pouwels, Hendrik, to ACF (Amsterdam Chemie Farmacie) N.V.Monophosphoric acid esters of halogen containing 2,2'-methylenediphenols. 3,439,069, 4-15-69, Cl. 260-953.
van der Meij, Jan Johannes: *See*—
Nederlof, Bastiaan Klaas; Bijl, Dingeman; and van der Meij, Jan Johannes,3,434,078.
Van der Meij, Pieter H.; and Buitelaar, Arnold A., to Shell Oil Company. Carboxylic copolymer-cyclic ether reaction products. 3,483,170, 12-9-69, Cl. 260-78.5
Van der Meijden, Antonius Johannes. Method for paving a street. 3,427,936, 2-18-69, Cl. 94-22.
van der Meijden, Antonius Johannes. Indented brick and pavement composed of such bricks. 3,464,328, 9-2-69, Cl. 94-13.
van der Meulen, Leonard. Installation for manufacturing block bags. 3,473,445, 10-21-69, Cl. 93-26.
Vander Molen, Donald R., to Whirlpool Corporation. Solid state lock-out circuit for compressor. 3,445,725, 5-20-69, Cl. 317-13.
Van Der Molen, John F.: *See*—
Payne, Robert A.; and Van Der Molen, John F.,3,453,549.
Vander Plaats, Marvin P., to Susquehanna Corporation, The. Method and apparatus for measuring pulse magnitude and charge. 3,467,864, 9-16-69, Cl. 324-102.
van der Plas, Franciscus J. F., to Shell Oil Company. Process for the preparation of nitrosyl chloride. 3,481,704, 12-2-69, Cl. 23-203.
Van Der Plas, Franciscus J. F.; and Fleurke, Karel H., to Shell Oil Company. Catalysts. 3,483,136, 12-9-69, Cl. 252-441.
van der Put, Henricus Cornelis Adrianus; and Sinjou, Johannes Petrus, to U.S. Philips Corporation, mesne. Fastener having resilient release means. 3,459,097, 8-5-69, Cl. 85-36.
Van Der Sanden, Hendrikus Cornelis Nicolaas; Veenendaal, Hendrikes Johannes; and Boersma, Theo Tjalke, to U.S. Philips Corporation, mesne. Photosensitive polyvinyl butyral lacquer containing water-insoluble chromates or bichromates. 3,471,294, 10-7-69, Cl. 96-93.
van der Schee, Bernard L. A., to American Enka Corporation. Apparatus for treating highly viscous materials. 3,462,129, 8-19-69, Cl. 259-6.
van der Schee, Bernard L. A.; and Zandstra, Bertus H., to American Enka Corporation. Apparatus for increasing the viscosity and degree of polymerization of ethylene terephthalate prepolymer. 3,486,864, 12-30-69, Cl. 23-285.
van der Smissen, Carl Ernst, to Drager, Otto Heinrich. Transparent plastic antifogging viewing glass con- taining a plasticizer which becomes a wetting agent by being hydrolyzed when contacted with water. 3,433,653, 3-18-69, Cl. 106-13.
van der Stap, Hendricus G. M., to GAF Corporation. Paper guide and holder. 3,486,711, 12-30-69, Cl. 242-76.
van der Stap, Hendricus G. M.: *See*—
Nederlof, Bastiaan K.; and van der Stap, Hendricus G. M.,3,482,918.
Van Der Stelt, Cornelis, to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. Certain 3-γ-tropanyl oximino derivatives of dibenzocycloheptenes and dibenzocyclooctenes. 3,454,580, 7-8-69, Cl. 260-292.
van der Stelt, Cornelis, to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. Benzhydroyloxyacetamide derivatives. 3,463,815, 8-26-69, Cl. 260-559.
van der Stelt, Cornelis; and Hofman, Petruo S., to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. Alkyl-N'-(5-nitro-2-furylidene)-N-(substituted carbamoyl)-hydrazino acetates. 3,452,053, 6-24-69, Cl. 260-347.4
van der Stelt, Cornelis; and Hofman, Petrus S., to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. Certain azadibenzocycloheptene-5-ols and ethers derivatives thereof. 3,462,447, 8-19-69, Cl. 260-296.
van der Stelt, Ernest Onno Willem: *See*—
Burggraaf, Anthonie Jan; van der Stelt, Ernest Onno Willem; and de Ruiter, Jacob Willem,3,484,276.
vander Straeten, Herman J.: *See*—
Mears, William G.; Schmidt, Karl R.; and vander Straeten, Herman J.,3,421,367.
van der Valk, Kees, to North American Philips Company, Inc. Communication system with synchronous communication between stations via repeater. 3,426,278, 2-4-69, Cl. 325-10.
van der Veen, Albert Jacob, to Dupuis, D., und Co., mesne, Firma. Auxiliary device for star-steaming. 3,452,942, 7-1-69, Cl. 242-55.
van der Veen, Roelof Rewnier, to U.S. Philips Corporation, mesne. Arrangement for identifying pushbutton signals. 3,456,083, 7-15-69, Cl. 179-16.
Van der Veer, William R.: *See*—
Gunkel, Walter A.; and Van der Veer, William R.,3,437,917.
Van der Veer, William R., to Wilson, William B., mesne. Hydraulic interval timer. 3,444,896, 5-20-69, Cl. 137-624.2

Van der Veer, William R., to Wilson, William B., mesne. Automatic irrigation hydrant. 3,454,048, 7-8-69, Cl. 137-625.11
van der Velden, Johannes H., to Boeing Company, The. Reuseable flareless tube coupling. 3,484,123, 12-16-69, Cl. 285-341.
Van Der Voo, Bastiaan, to North American Philips Company, Inc. Pole pieces for magnetic heads with accurately determined gap heights. 3,435,155, 3-25-69, Cl. 179-100.2
Van Der Voort, Henricus G. P.; and De Jong, Willem P., to Shell Oil Company. Oil-soluble halogen containing polyamines and polyethyleneimines. 3,454,555, 7-8-69, Cl. 260-239.
van der Waard, Willem Frederik: *See—*
de Flines, Jan; and van der Waard, Willem Frederik,3,472,736.
van der Waard, Willem Frederik; and de Flines, Jan, to Koninklijke Nederlandsche Gist Spiritusfabriek N.V.Process for the preparation of 17α- acyloxy-21-hydroxy-pregnanes. 3,431,173, 3-4-69, Cl. 195-51.
Marx Arthur Friedich; and Van der Waard, Willem Frederik,3,466,279.
van der Wal, Karel: *See—*
Kouwenhoven, Herman W.; Aben, Pieter C.; and van der Wal, Karel,3,422,001.
Vander Wall, Edwin Robert. Ventilated cat toilet. 3,476,083, 11-4-69, Cl. 119-1.
van der Werff, Bartele, to A. Vuyk en Zonen's Scheepswerven N.V. Hopper barge for transporting especially liquid waste matter. 3,439,642, 4-22-69, Cl. 114-37.
van der Wijngaart, Bernardus Antonius Carolus; Quirijnen, Marius; and Knigge, Marinus Gijsbertus, to U.S. Philips Corporation, mesne. Piezo-electric shutter. 3,477,787, 11-11-69, Cl. 355-71.
Van der Winden, Johannes Bernardus, to Gebr. Stork & Co's Apparatenfabriek N.V. Screen printing machine with driven screen. 3,420,167, 1-7-69, Cl. 101-116.
van der Winden, Johannes Bernardus, to Stork & Co's Apparatenfabriek N.V., Gebr. Eccentric shaft and plunger pump provided with such a shaft. 3,426,616, 2-11-69, Cl. 74-571.
van der Zee, Jan H., to Honeywell Inc. Gas valve with a thermoelectric safety device. 3,480,028, 11-25-69, Cl. 137-66.
Vanderbeck, Russell C., to Becton, Dickinson and Company. Automatic syringe disposal device. 3,469,750, 9-30-69, Cl. 225-94.
Vanderbeck, Russell C., to Becton, Dickinson and Company. Self contained sterile syringe. 3,485,239, 12-23-69, Cl. 128-218.
Vanderbilt, Byron M.: *See—*
Forster, Eric O.; and Vanderbilt, Byron M.,3,427,264.
Hawley, Roger S.; and Vanderbilt, Byron M.,3,424,818.
Vanderbilt, Byron M., to Esso Research and Engineering Company. Binder for bonding of reinforcing materials. 3,484,333, 12-16-69, Cl. 161-93.
Vanderbilt, Byron M.; and Clayton, Robert E., to Esso Research and Engineering Company. Reinforcement of rubbery polymers. 3,443,620, 5-13-69, Cl. 152-330.
Vanderbilt, Byron M.; and Fasnacht, James J., to Esso Research and Engineering Company, and PPG Industries, Inc. Method for sizing glass fibers. 3,484,223, 12-16-69, Cl. 65-3.
Vanderbilt, Byron M.; and Hawley, Roger S., to Esso Research and Engineering Company. Cross-linked polymers of vinyl halides and vinylidene halides. 3,481,912, 12-2-69, Cl. 260-87.7
Vanderbilt, Byron M.; and Marsden, Charles F., Jr., to Esso Research and Engineering Company. Reinforced thermoset plastic pipe. 3,447,572, 6-3-69, Cl. 138-141.
Vanderbilt, R. T., Company, Inc.: *See—*
Corrigall, James Stephen; Waterman, Raymond R.; and Deal, Kenneth M., 3,424,633.
De Hoff, Ronald L.; and Grieco, George D., 3,477,981.
Deal, Kenneth M.; and Waterman, Raymond R., 3,432,449.
Harvey, Allan M., 3,426,024.
Vanderborgh, George H., Jr.; and Campbell, Phillip J., to Long Island Oyster Farms, Inc. Method of growing oysters. 3,486,486, 12-30-69, Cl. 119-4.
Vanderbur, John E., Jr.; Waggoner, James N.; and McBrien, Robert M., to Garrett Corporation, The. Medical material container. 3,424,218, 1-28-69, Cl. 150-0.5
Vanderbush, James J., Jr.: *See—*
Harmer, David E.; Mount, Ramon A.; and Vanderbush, James J., Jr.,3,480,534.
Vandergrift, Alice M.: *See—*
Battistoni, Harry J.; and Vandergrift, Alice M.,3,456,980.
Vanderhoff, John W., to Dow Chemical Company, The. Method for carrying out chemical reactions using microwave energy. 3,432,413, 3-11-69, Cl. 204-159.22
Vanderhyde, Harold J.: *See—*
Immermann, Milton; Vanderhyde, Harold J.; and Woods, George H.,3,454,152.
Vanderjagt, John A., to Scienco, Inc. Pneumatic tailgate lift. 3,467,266, 9-16-69, Cl. 214-77.
Vanderkooi, Nicholas, Jr.: *See—*
Fox, William B.; Mac Kenzie, James S.; and Vanderkooi, Nicholas, Jr.,3,428,540.
Vanderlaan, Henry J.: *See—*
Good, William E.; Graser, Michael, Jr.; and Vanderlaan, Henry J.,3,450,462.
Vanderlaan, Robert Dale, to Pneumo Dynamics Corporation. Relief valve construction. 3,426,997, 2-11-69, Cl. 251-120.
Vanderlaan, Robert D.: *See—*
Heintz, Richard P.; and Vanderlaan, Robert D.,3,426,796.
Vanderlinde, William, to Dow Corning Corporation. Room temperature vulcanizable silicones. 3,445,419, 5-20-69, Cl. 260-37.
VanderLinden, Ronald C.: *See—*
Eng, Jackson; Thomson, Gordon H.; and VanderLinden, Ronald C.,3,475,327.
Vanderpool, Clarence D.: *See—*
Chiola, Vincent; and Vanderpool, Clarence D.,3,425,794.
Chiola, Vincent; and Vanderpool, Clarence D.,3,428,415.
Chiola, Vincent; and Vanderpool, Clarence D.,3,446,577.
Chiola, Vincent; Dodds, Robert E.; and Vanderpool, Clarence D.,3,440,732.
Vandersip, Henry A., to Leesona Corporation. Yarn clearer. 3,472,108, 10-14-69, Cl. 83-360.
Vandersip, Henry Annis, to Fram Corporation, mesne. Dual, pleated element filter assembly. 3,420,377, 1-7-69, Cl. 210-315.
Vandersteen, Jacobus Johannes Cornelius, to U.S. Philips Corporation, mesne. Method for etching a spiral groove pattern with use of a masking apparatus. 3,453,159, 7-1-69, Cl. 156-8.
Vandersteen, Jacobus Johannes Cornelius, to U.S. Philips Corporation, mesne. Bearing sleeve for a hydrodynamic bearing. 3,469,895, 9-30-69, Cl. 308-9.
Vandersteen, Jacobus Johannes Cornelius, to U.S. Philips Corporation, mesne. Groove cutting apparatus for an internal bearing surface. 3,486,414, 12-30-69, Cl. 90-11.54
Vanderstegen-Drake, Stamford R. F., to Plenty & Son Limited. Pumps. 3,478,692, 11-18-69, Cl. 103-120.
Vandersyde, Francis E.; Roberts, Thomas E., Jr.; and McGee, Arthur L., to FMC Corporation. Sheet patching machine. 3,452,790, 7-1-69, Cl. 144-2.
Vanderwerff, William D., to Sun Oil Company. Maleic acid promoted oxidation process. 3,420,878, 1-7-69, Cl. 260-524.
Vanderwerff, William D., to Sun Oil Company. Poly (methylenenaphthylene) resin and method of making same. 3,453,220, 7-1-69, Cl. 260-2.2
Vanderwerff, William D., to Sun Oil Company. Intermolecular condensation of aromatic compounds. 3,481,997, 12-2-69, Cl. 260-670.
Vanderwerff, William D.: *See—*
Douros, John D., Jr.; and Vanderwerff, William D.,3,481,730.
Van Derzee, Harold R.: *See—*
Larsen, John E.; and Van Derzee, Harold R.,3,438,125.
Vandesande, Georges: *See—*
Carmassi, Michel; and Vandesande, Georges,3,424,560.
Van Dessel, Lodewijk August: *See—*
De Keyser, Lodewijk Felix; Conix, Andre Jan; and Van Dessel, Lodewijk August,3,434,840.
Van Deursen, Josephus H.: *See—*
Klootwijk, Arie; and Van Deursen, Josephus H.,3,471,456.
Van Deusen, Bruce D.: *See—*
Platzer, George E., Jr.; and Van Deusen, Bruce D.,3,423,578.
Van Deusen, Jr.: *See—*
McGuire, James F.; and Babbitt, Norman S., 3,439,281.
Van Deventer, Emil L.: *See—*
Husted, Hoyt L.; and Van Deventer, Emil L.,3,480,367.
Vandewell Products Limited: *See—*
Waterman, William John, 3,434,942.
Van Dijk, Christiaan P.: *See—*
Jongenburger, Huibert S.; Van Hook, James P.; and Van Dijk, Christiaan P.,3,449,079.
van Dijk, Christiaan P., to Pullman Incorporated. Hydrocarbon halogenation process. 3,472,902, 10-14-69, Cl. 260-650.
Van Dijk, Christiaan P.; Van Hook, James P.; and Jongenburger, Huibert S., to Pullman Incorporated. Halogen production. 3,451,776, 6-24-69, Cl. 23-219.
van Dijk, Jacobus Wilhelmus: *See—*
Oskam, Willem; and van Dijk, Jacobus Wilhelmus,3,427,043.
Van Dijk, Jan C., to Shell Oil Company. Filament impregnating device. 3,474,756, 10-28-69, Cl. 118-405.
van Dijk, Jan C.: *See—*
van Leeuwen, Frederik W.; van Dijk, Jan C.; and Hoogeveen, Johan C.,3,446,689.
Moed, Hendrik Durk; Claasen, Volkert; and van Dijk, Jan,3,444,210.
Van Dine, Gilbert A., to Bell Telephone Laboratories, Incorporated. Detector for bipolar digital signals. 3,441,747, 4-29-69, Cl. 307-236.
Van Dine, Gilbert A., to Bell Telephone Laboratories, Incorporated. Semiconductor multivibrator. 3,479,529, 11-18-69, Cl. 307-273.
Vandis, Lazaros C. Dental handpiece control. 3,449,831, 6-17-69, Cl. 32-26.
Van Dolah, Harry J.; and Linhart, Otto C., to Eagle-Picker Company, The. Dry process porcelain enameling frit and method. 3,481,757, 12-2-69, Cl. 117-23.
Van Domselaar, Hans R.: *See—*
Van Daalen, Francois; Van Domselaar, Hans R.; and Hooykaas, Henricus,3,467,191.

van Donkelaar, Pieter, to Outboard Marine Corporation. Lawn mower. 3,466,858, 9-16-69, Cl. 56-295.
Van Donselaar, Wilhelmus Hendrikus, to North American Philips Company, Inc. Laminated flat disc-shaped rotors. 3,436,581, 4-1-69, Cl. 310-268.
Van Doorn, Willem, to North American Philips Company, Inc. Cable termination amplifier having a negative feedback circuit providing high frequency cable termination impedance. 3,435,361, 3-25-69, Cl. 330-28.
Van Dormael, Andre Emile: *See*—
Depoorter, Henri; Nys, Jean Marie; and Van Dormael, Andre Emile,3,438,994.
Van Dorn, Horace B., to Textron Inc., mesne. Method of making a bearing. 3,461,529, 8-19-69, Cl. 29-149.5
Van Dorn, Horace B., to Textron Inc., mesne. Projection welding of bearing mounts. 3,469,063, 9-23-69, Cl. 219-93.
Van Dorn, Jeffrey: *See*—
Romanzi, Louis, Jr.; and Van Dorn, Jeffrey,3,457,603.
Van Dorp, David Adriaan; and Szpilfogel, Stefan Antoni, to Organon, Inc. Process for the preparation of 62119614-3-keto steroidal compounds. 3,423,434, 1-21-69, Cl. 260-397.3
van Dranen, Marinus, to N.V. Maschinefabriek A. Bijlenga. Piston for a pneumatic or hydraulic cylinder. 3,443,485, 5-13-69, Cl. 92-181.
Van Driesen, Roger P., to Cities Service Research and Development Company. Process for defouling equipment contaminated with carbonaceous deposits. 3,420,711, 1-7-69, Cl. 134-2.
Van Driesen, Roger P., to Cities Service Research and Development Company. Maintenance of fluid flow in heavy hydrocarbon oil hydrogenation. 3,477,944, 11-11-69, Cl. 208-143.
van Drunen, Korstiaan J. M.: *See*—
Fontijn, Wilhelmus J.; and van Drunen, Korstiaan J. M.,3,447,308.
Van Duuren, Hendrik Cornelis Anthony; Da Silva, Herman; and Brok, Wilhelm Frederik, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Automatic channel switching device for multi- channel binary code telecommunication system. 3,457,373, 7-22-69, Cl. 179-15.
van Duuren, Hendrik Cornelis Anthony; Dalen, Christiaan Johannes van; and da Silva, Herman, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen Telegrafie en Telefonie. System for automatic error detection and correction of telecommunicated signals. 3,467,776, 9-16-69, Cl. 178-23.
Van Duuren, Hendrik Cornelis Anthony; Van Dalen, Christiaan Johannes; and Da Silva, Herman, to Nederlanden, de Staat der, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Simplex telecommunication system with automatic error detection and correction. 3,461,238, 8-12-69, Cl. 178-69.
Van Duyne, Charles M. Urine screening device. 3,466,145, 9-9-69, Cl. 23-253.
Van Dyk, John W., to Du Pont de Nemours, E. I., and Company. Low-friction packing or bearing material. 3,480,547, 11-25-69, Cl. 252-12.6
Van Dyke, Burton: *See*—
Arnold, Alson J.; Van Dyke, Burton; Van Dyke, Don; and Porter, David D.,3,448,496.
Van Dyke, Don: *See*—
Arnold, Alson J.; Van Dyke, Burton; Van Dyke, Don; and Porter, David D.,3,448,496.
Van Dyke, John William, Jr., to Miles Laboratories, Inc.1-Substituted derivatives of 3-ethyl-4-[1-methyl- imidazolyl-(5)-methyl]-2-pyrrolidinone. 3,470,197, 9-30-69, Cl. 260-309.
Van Dyke, Ross E., to Shell Oil Company. Preparation of supported iron/tungsten catalyst. 3,475,349, 10-28-69, Cl. 252-442.
Van Dyke Tiers, George, to Minnesota Mining and Manufacturing Company. Fluorine-containing organosilicon compounds and method of making. 3,427,336, 2-11-69, Cl. 260-448.2
Van Eenam, Donald N.: *See*—
Dill, Dale R.; and Van Eenam, Donald N.,3,442,698.
Vanegas, Guillermo Jose, to American Standard Inc. Plumbing fittings. 3,430,270, 3-4-69, Cl. 4-145.
van Eijk, Willem: *See*—
de Kroes, Jan Louis; and van Eijk, Willem,3,483,332.
Van Eikeren, Hans; and Weller, Berthold L., to Kitchens of Sara Lee, Inc. Method of heat sealing the container edges of plastic foam material by flame contact. 3,438,826, 4-15-69, Cl. 156-82.
Vanek, Josef, to SVIT, narodni podnik. Leather-suppling machines. 3,486,350, 12-30-69, Cl. 69-33.
Vanek, Richard P.: *See*—
Simnad, Massoud T.; Meyer, Robert A.; and Vanek, Richard P.,3,436,790.
Vanek, Robert D. Educational electrical circuit toy. 3,466,760, 9-16-69, Cl. 35-19.
Van Elten, Gerrit J., to Welvo N.V. Method and device to empty closed sacks filled with particulate material. 3,467,267, 9-16-69, Cl. 214-305.
Vaneman, Gerald L.; and Schanck, James L., to Babcock & Wilcox Company, The. Strengthening of elongated metal sections. 3,486,361, 12-30-69, Cl. 72-278.
Van Emden, Bernard M., to Advance Data Systems Corporation. A. C. motor phase reversing circuit. 3,432,736, 3-11-69, Cl. 318-202.
Van Engeland, Jozef Leonard: *See*—
Cassiers, Paul Maria; Noe, Robert Joseph; and Van Engeland, Jozef Leonard,3,486,922.
Cassiers, Paul Maria; Rott, Andre; Meeussen, Louis Achilles; and Van Engeland, Jozef Leonard,3,472,676.
Cassiers, Paul Maria; Van Engeland, Jozef Leonard; and Noe, Robert Joseph,3,425,829.
Van Engeland, Jozef Leonard; and Wouters, Albert Paul, to Gevaert-Agfa N.V. Apparatus for separating rolled material into pieces. 3,453,046, 7-1-69, Cl. 355-13.
Van den Heuvel, Walter August; Vanhalst, Johan Eugeen; Van Engeland, Jozef Leonard; and DeVolder, Noel Jozef,3,441,426.
Van Engerland, Jozef Leonard: *See*—
Van den Heuvel, Walter August; Vanhaist, Johan Eugeen; Van Engerland, Jozef Leonard; and De Volder, Noel Jozef,3,432,329.
van Es, Machiel, to Gebr. Stork & Co.'s Apparatenfabriek N.V. Heat exchanger. 3,477,501, 11-11-69, Cl. 165-103.
Van Eygen, Cyrille; and Carpentier, Raymond, to UCB (Union Chimique-Chemische Bedrijven), S.A. Fluorinated compounds and their preparation. 3,470,124, 9-30-69, Cl. 260-29.6
Van Eygen, Cyrille; and Weerens, Arthur, to UCB (Union-Chimique-Chemische Bedrijven) S.A. Thermo-setting resinous compositions consisting of a copolymer of an ethylenically unsaturated dicarboxylic acid imide and a cross-linking agent. 3,429,947, 2-25-69, Cl. 260-836.
van Fossen, Ralph H., Jr.: *See*—
Dooley, Kerry A.; Rockhill, William E.; Swope, David L.; Thomas, Earl F.; and van Fossen, Ralph H., Jr.,3,467,877.
Van Gaasbeck, Richard L., to Ingersoll-Rand Company. Fluid supported hoist. 3,432,040, 3-11-69, Cl. 212-134.
Van Geijn, Jacob, to Shell Oil Company. Method and apparatus for carrying out operations on a well under water. 3,421,581, 1-14-69, Cl. 166-0.5
van Gelder, Abraham, to Stamicarbon N.V. Installation for controlling a pushing cylinder at a working face with power advanced supports. 3,437,011, 4-8-69, Cl. 91-412.
Van Gelder, Arthur, to Sun-Freeze, Inc. Method for vacuum dehydration and apparatus therefor. 3,455,031, 7-15-69, Cl. 34-5.
van Gelder, Arthur, to Sun-Freeze, Inc. Quick freezing of liquids for dehydration. 3,477,137, 11-11-69, Cl. 34-5.
van Gelder, Willem: *See*—
Bergh, Arpad A.; and van Gelder, Willem,3,479,237.
Vangermain, Erwin: *See*—
Kuhnen, Ludwi; List, Ferdinand; and Vangermain, Erwin,3,449,439.
Van Gerwen, Petrus Josephus, to U.S. Philips Corporation, mesne. Two level to three level pulse code converter utilizing modulo-2 logic and delayed pulse feedback. 3,456,199, 7-15-69, Cl. 328-36.
Van Ghemen, Max; and Wiberg, Egon, to Hooker Chemical Corporation. Hexaphenyl-decaphosphine. 3,471,568, 10-7-69, Cl. 260-606.5
van Gils, Gerard E., to General Tire & Rubber Company, The. Cord dip of improved stability. 3,437,122, 4-8-69, Cl. 152-330.
van Ginneken, Adriaan Johannes Josephus: *See*—
van Ginneken, Christiaan Marie; and van Ginneken, Adriaan Johannes Josephus,3,432,307.
van Ginneken, Christiaan Marie; and van Ginneken, Adriaan Johannes Josephus. Method and apparatus for preparing a mixed product. 3,432,307, 3-11-69, Cl. 99-56.
Van Gompel, James J.; and Meyer, Luther W., to S & S Enterprises, Inc. Quick-set shear slitter. 3,422,714, 1-21-69, Cl. 83-498.
Vangor, William. Apparatus for positioning and indexing workpieces. 3,443,456, 5-13-69, Cl. 74-822.
Van Gorder, Jack H., to General Motors Corporation. Clutch with automatic modulating valves. 3,421,608, 1-14-69, Cl. 192-85.
Van Goubergen, Willy, to N.V. Imexin S.A. Vibration dampening pads. 3,436,042, 4-1-69, Cl. 248-22.
Vanguard U.S.: *See*—
Stabile, Lucio, 3,421,065.
Van Gulik, Johan L., to Omark Industries, Inc. Welding circuit. 3,479,481, 11-18-69, Cl. 219-98.
Vanhaist, Johan Eugeen: *See*—
Van den Heuvel, Walter August; Vanhaist, Johan Eugeen; Van Engerland, Jozef Leonard; and De Volder, Noel Jozef,3,432,329.
Van Hall, Clayton E.: *See*—
Stenger, Vernon A.; and Van Hall, Clayton E.,3,459,938.
Vanhall, Clayton E.: *See*—
Stenger, Vernon A.; and Vanhall, Clayton E.,3,421,856.
Vanhalst, Johan Eugeen: *See*—
Van den Heuvel, Walter August; Vanhalst, Johan Eugeen; Van Engeland, Jozef Leonard; and DeVolder, Noel Jozef,3,441,426.

Van Hart, James E., Jr.; and Rea, Kenneth R., to Singer Company, The. Needle resetting devices for zigzag sewing machines. 3,465,699, 9-9-69, Cl. 112-158.
Van Hartesveldt, Carroll H.; and Wahl, Buddy D., to Hoover Ball and Bearing Company. Press. 3,450,032, 6-17-69, Cl. 100-93.
Van Hattum, Johannes Simon Albert: *See—*
Smeulers, Wouter; and Van Hattum, Johannes Simon Albert,3,426,243.
van Hekken, Frans: *See—*
Herzfeld, Fred; and van Hekken, Frans,3,476,025.
Van Helden, Henricus J. A.; Kouwenhoven, Herman W.; and Quik, Willem C. J., to Shell Oil Company. Hydrocarbon conversion process with a catalyst treated with an acid and an ammonium compound. 3,442,794, 5-6-69, Cl. 208-111.
Van Hensbergen, Gerrit Hendrik; and Grubben, Henri Peter Johannes, to U.S. Philips Corporation, mesne. Resistance dialing receiver. 3,476,881, 11-4-69, Cl. 179-16.
Van Heuvelen, Johannes J., to American Enka Corporation. Process for improving the creep resistance in rayon industrial yarns, cords and the like. 3,425,787, 2-4-69, Cl. 8-116.
Van Heyningen, Earle M., to Lilly, Eli, and Company. 3-(Cyclic acyl) oxymethyl cephalosporins. 3,445,463, 5-20-69, Cl. 260-243.
Van Heyningen, Earle M., to Lilly, Eli and Company. Dithiocarboxylated cephalosporins. 3,446,803, 5-27-69, Cl. 260-243.
Van Heyningen, Earle M.; Ryan, Charles W.; and Spencer, John L., to Eli Lilly, and Company. Orally effective cephalosporin antibiotic. 3,459,749, 8-5-69, Cl. 260-243.
Van Hise, Charles W.: *See—*
Chappel, Raymond M.; Krishnan, Kamala S.; and Van Hise, Charles W.,3,465,421.
Van Hoeck, Willy F.: *See—*
Sellenslagh, Emiel H. M.; and Van Hoeck, Willy F.,3,433,898.
Vanhoegaerden, Raoul, to International Machinery Corporation S.A. Method and apparatus for peeling fruit. 3,420,286, 1-7-69, Cl. 146-231.
Van Hoof, Petrus. Device for fastening a sanitary piece. 3,440,670, 4-29-69, Cl. 4-252.
Van Hook, James P.: *See—*
Jongenburger, Huibert S.; Van Hook, James P.; and Van Dijk, Christiaan P.,3,449,079.
Van Dijk, Christiaan P.; Van Hook, James P.; and Jongenburger, Huibert S.,3,451,776.
Van Horik, Leonard R.: *See—*
Pfaffenberger, Richard T.; and Van Horik, Leonard R.,3,453,717.
Pfaffenberger, Richard T.; and Van Horik, Leonard R.,3,460,232.
Pfaffenberger, Richard T.; and Van Horik, Leonard R.,3,460,233.
van Horn, John A., to Hamilton Watch Company. Watch rate regulator. 3,425,211, 2-4-69, Cl. 58-107.
Van Horn, John A.: *See—*
Rogers, Donald J.; and Van Horn, John A.,3,427,798.
Van Horn, John W.; Teague, Jimmy Calvin; and Prickett, Jack A., to Rockwell Manufacturing Company. Slug rejection mechanism for coin vending machine. 3,481,442, 12-2-69, Cl. 194-97.
Van Horssen, Arden D.; Habig, Wydell W.; Shortell, Raymond E.; and Smiley, George C., to United-Carr Incorporated, mesne. Coaxial cable connector. 3,480,722, 11-25-69, Cl. 174-87.
Van House, Robert M., to General Motors Corporation. Disc brake assembly. 3,422,935, 1-21-69, Cl. 188-73.
Van House, Robert M.; and Flory, Donald M., to General Motors Corporation. Self-energized disc brake assembly. 3,422,933, 1-21-69, Cl. 188-73.
Van House, Russell W.: *See—*
Lee, Hen N.; and Van House, Russell W.,3,426,084.
Van Hout, Franciscus Adrianus: *See—*
Hendriks, Adrianus Anthonius Maria; Klopping, Carel Peter; Van Hout, Franciscus Adrianus; and Sanders, Petrus Wilhelmus,3,473,068.
Van Houten, Frances M. Bidet for attachment to conventional commodes. 3,430,267, 3-4-69, Cl. 4-6.
Van Houten, Leonard E.: *See—*
Mascenik, John; Flory, John F.; and Van Houten, Leonard E.,3,455,270.
Van Houtte, James J.; and Elliott, Walter C., to Dresser Industries, Inc. Fire protection sprinkler system. 3,451,483, 6-24-69, Cl. 169-37.
van Huet, Aloysius Theodorus. Apparatus for transferring pipes or the like. 3,432,041, 3-11-69, Cl. 214-1.
Van Huet, Aloysius T.: *See—*
Hildebrandt, Willi; and Van Huet, Aloysius T.,3,430,985.
Van Huffel, James Howard: *See—*
LaLonde, Carl Henry; and Van Huffel, James Howard,3,483,910.
Van Huis, Robert L., to U.S. Industries, Inc., mesne. Combination animal feeder hopper and feed conveyor corner structure. 3,444,986, 5-20-69, Cl. 198-56.
Van Huis, Robert L., to U.S. Industries, Inc. Poultry cage egg collection system. 3,467,065, 9-16-69, Cl. 119-48.
Van Huisen, Allen T. Geothermal exchange system. 3,470,943, 10-7-69, Cl. 165-45.
Vanier, Jacques P., to Hewlett-Packard Company, mesne. Atomic beam maser having improved energy state selection to provide increased short term stability. 3,420,996, 1-7-69, Cl. 250-41.3
Vanier, Jacques P., to Hewlett-Packard Company, mesne. Tuning of atomic masers by magnetic quenching using transverse magnetic fields. 3,435,369, 3-25-69, Cl. 331-94.
van Iersel, Alfons Matthijs Reinier, to U.S. Philips Corporation, mesne. Semiconductor devices having a field effect transistor structure. 3,482,152, 12-2-69, Cl. 317-235.
VanIngen, Jack A., to Eastman Kodak Company. Ultrasonic in-line filter system. 3,463,321, 8-26-69, Cl. 210-388.
Van Ingen, Jack, to Eastman Kodak Company. Filter arrangement. 3,461,651, 8-19-9, Cl. 55-199.
Van Innis, Marcel: *See—*
Brabon, Roger; Beaumariage, Andre; De Boeck, Willy; De Broeyer, Roland; Delplancke, Firmin; and Van Innis, Marcel,3,465,097.
van Kampen, Johannes A.: *See—*
Rijnsdorp, Johannes E.; van Kampen, Johannes A.; and Bollen, Hans,3,428,527.
van Kessel, Theodorus Jozef, to North American Philips Company, Inc. Transmitting arrangement for the transmission of compatible single sideband oscillations. 3,449,715, 6-10-69, Cl. 325-137.
Van Kinschot, Gaspard L. F.: *See—*
Van Lohuizen, Otto E.; Paulusma, Pieter; and Van Kinschot, Gaspard L. F.,3,457,343.
Van Kol, Gerald W. Filter coupled to microwave guide. 3,464,035, 8-26-69, Cl. 333-73.
Van Koppen, Christianus W. J.; and Thomas, Cornelis, to Stamicarbon N.V. Apparatus for dividing liquid into uniformly distributed flows. 3,420,443, 1-7-69, Cl. 239-193.
Van Landeghem, Hugo: *See—*
Buisson, Andre; Trambouze, Pierre; Van Landeghem, Hugo; and Rebeller, Michel,3,468,057.
van Landeghem, Willy Karel: *See—*
Bisschops, Johan Heinrich; Willems, Jozef Frans; and van Landeghem, Willy Karel,3,460,984.
Van Langen, Johannes Otto Michael; and Bastiaanssen, Johannes Wilhelmus, to U.S. Philips Corporation, mesne. Method of manufacturing a magnetic head with a substantially. 3,452,430, 7-1-69, Cl. 29-603.
Van Lanigan, Louis R. Mouth evacuator. 3,456,348, 7-22-69, Cl. 32-33.
Van Lare, Earl J.: *See—*
Brooker, Leslie G. S.; and Van Lare, Earl J.,3,431,111.
Van Lare, Earl John, to Eastman Kodak Company. Method of spectrally sensitizing photographic silver halide. 3,482,981, 12-9-69, Cl. 96-106.
van Leer, Gerard Wouter. Package for foodstuffs. 3,433,652, 3-18-69, Cl. 99-171.
Van Leeuwen, Andrew, to Statham Instruments, Inc. Calibration circuit for transducers. 3,439,258, 4-15-69, Cl. 323-75.
van Leeuwen, Frederik W.; van Dijk, Jan C.; and Hoogeveen, Johan C., to Shell Oil Company. Apparatus for the manufacture of plastic pipes. 3,446,689, 5-27-69, Cl. 156-432.
Van Leyden, Ragnar: *See—*
Piron, Claude; and Van Leyden, Ragnar,3,441,343.
van Lier, Johannes A.: *See—*
Darland, William G., Jr.; Kordesch, Karl V.; and van Lier, Johannes A.,3,423,247.
Van Linge, Cornelius. Douche attachment for connection with a shower having antisiphon and pressure control means. 3,461,870, 8-19-69, Cl. 128-229.
Van Lohuizen, Otto E.; Paulusma, Pieter; and Van Kinschot, Gaspard L. F., to Algemene Kunstzijde Unie, N.V. Wet spinning process. 3,457,343, 7-22-69, Cl. 264-184.
van Loo, William Julius, Jr., to American Cyanamid Company. Dialdehyde as diketone-cyclic amide condensation products. 3,431,271, 3-4-69, Cl. 260-307.
van Loo, William Julius, Jr.; and De Paolo, George Robert, to American Cyanamid Company. Soil retardant compositions and textile materials. 3,424,680, 1-28-69, Cl. 252-8.8
Van Loo, William Julius, Jr.: *See—*
O'Brien, Samuel James; and Van Loo, William Julius, Jr.,3,458,989.
Van Loon, Donald F.: *See—*
Newcomb, Wallace K.; Blank, Charles E., Sr.; and Van Loon, Donald F.,3,438,638.
Van Luik, Frank W., Jr.: *See—*
Lustenader, Edward L.; and Van Luik, Frank W., Jr.,3,478,494.
van Marle, Nicolaas Gradus Jan Willem, to Aviolanda Maatschappij voor Vliegtuigbouw N.V. End structure for airport gangways. 3,484,883, 12-23-69, Cl. 14-71.
Van Marter, Charles W., to General Electric Company. Trickle charge voltage stabilization nickel- cadmium battery. 3,421,068, 1-7-69, Cl. 320-31.

van Mast, Johannes Bernardus Gerardus Scholte, to N.V. Hollandse Signaalapparaten. Magnetic deflecting means for cathode- ray tubes. 3,456,149, 7-15-69, Cl. 315-27.
Van Mastrigt, William C. J. Ignition system. 3,422,804, 1-21-69, Cl. 123-148.
Van Meurs, Pieter: *See—*
Hottman, Clarence E.; and Van Meurs, Pieter,3,432,205.
Matthews, Charles S.; Van Meurs, Pieter; and Volek, Charles W.,3,455,391.
Prats, Michael; and Van Meurs, Pieter,3,455,383.
Van Mil, Stephen A., Jr., to Ivers-Lee Company. Method and machine for making a package containing liquid-impregnated sheet material. 3,439,469, 4-22-69, Cl. 53-21.
Van Mullekom, Hubert Peter. Device for launching a thread by jet action of a fluid to be used in conjunction with loom. 3,451,437, 6-24-69, Cl. 139-127.
van Mullekom, Hubert Peter, to N.V. Machinefabriek L. te Strake. Apparatus for assisting the jet insertion of a weft thread into the shed of a loom. 3,465,791, 9-9-69, Cl. 139-127.
van Mullekom, Hubert Peter, to N.V. Machinefabriek L. te Strake. Device for guiding a thread. 3,465,939, 9-9-69, Cl. 226-97.
van Mullekom, Hubert P., to N.V. Machinefabriek L. Te Strake. Device for preparing a weft. 3,443,603, 5-13-69, Cl. 139-127.
van Munster, Lourens B., to Vometic N.V. Mixer for continuously treating one or more granular or pulverulent materials with one or more atomized substances. 3,439,902, 4-22-69, Cl. 259-151.
Vann, Clifton B., III, to West Virginia Pulp and Paper Company. Pallet loading machine for sequentially delivered articles. 3,434,602, 3-25-69, Cl. 214-1.
Vann, Stephen R. Foldable motor scooter. 3,483,937, 12-16-69, Cl. 180-32.
van Name, Marjorie E.: *See—*
Midgette, Ernst L., 3,486,741.
Vannatter, Robert L., to General Dynamics Corporation. Acceleration responsive apparatus. 3,441,694, 4-29-69, Cl. 200-61.53
Van Ness, William C., to Singer Company, The. Vibrating throat platework feeding mechanisms. 3,467,038, 9-16-69, Cl. 112-203.
Vannest, James L., to Textron, Inc., mesne. Positive aligment feature for split ring bearing retainers. 3,471,208, 10-7-69, Cl. 308-201.
Vannest, James L., to Textron Inc., mesne. Method of making a bearing retainer. 3,482,297, 12-9-69, Cl. 29-148.4
Vannest, James L., to Textron Inc., mesne. Method of making a ball-bearing retainer. 3,486,212, 12-30-69, Cl. 29-148.4
Van Nice, Robert I., to Westinghouse Electric Corporation. High series capacitance winding for electrical inductive apparatus. 3,477,052, 11-4-69, Cl. 336-70.
Van Niel, Clarence R., to Tinnerman Products, Inc. Fastening device. 3,478,801, 11-18-69, Cl. 151-41.75
Van Noord, Andrew J., to Donnelly Mirrors, Inc. Rearview mirror actuator. 3,467,465, 9-16-69, Cl. 350-281.
Van Nordstrand, Robert A., to Sinclair Research, Inc. Production of alumina from dawsonite. 3,459,502, 8-5-69, Cl. 23-143.
Van Norman, Gilden R.: *See—*
Houle, James F.; and Van Norman, Gilden R.,3,486,450.
Van Nostrand, Clifford E., Sr. Torque input shaft air hammer attaching device. 3,422,910, 1-21-69, Cl. 173-93.
Van Note, Charles O., Jr.; and Cordary, Bruce J., to Servco Company, The. Coupling. 3,476,415, 11-4-69, Cl. 285-396.
Van Noy, Bryce W.: *See—*
Gallaro, Anthony V.; and Van Noy, Bryce W.,3,439,208.
Van Noy, Cordell C., Jr., to American Hospital Supply Corporation, mesne. Device for demonstrating medical procedures. 3,426,449, 2-11-69, Cl. 35-17.
Van Olinda, David L.: *See—*
Brahm, Charles B.; Corcoran, John M.; Glista, Edward M.; and Van Olinda, David L.,3,478,512.
van Oost, Willem Cornelis, to Grondverbetering-En Ontginningmaalschappij N.V. Floating landing-stage. 3,442,238, 5-6-69, Cl. 114-0.5
van Opijnen, Leendert J. K., to National Research Corporation. Power supply for vacuum pump with auxiliary pressure measurement function. 3,441,839, 4-29-69, Cl. 324-33.
van Opijnen, Leendert J. K.: *See—*
Harvey, Philip C.; Sheldon, Deane P.; and van Opijnen, Leendert J. K.,3,449,564.
Van Ornum, Delbert G., to Goetel Inc. Electric arc light source and method. 3,480,829, 11-25-69, Cl. 315-111.
Van Ornum, Delbert G.; Geideman, William A., Jr.; and Muller, Kurt, to Geotel Inc. Electric arc light source having undercut recessed anode. 3,469,143, 9-23-69, Cl. 315-111.
Van Ornum, Delbert G.; and Sheets, Ronald E., to Giannini Scientific Corporation. Radiation source and method. 3,447,013, 5-27-69, Cl. 313-12.
Van Os, Cornelis Johannes. Drive means for a cylinder processing machine. 3,480,191, 11-25-69, Cl. 226-25.
Van Ostrand, Herbert P., to Vomar Products, Inc. Building directory. 3,419,978, 1-7-69, Cl. 40--063
Van Ostrand, William F., to Dynamic Precision Control Corporation. Variable frequency fine-coarse position motor control. 3,431,474, 3-4-69, Cl. 318-18.
Vanov, Viktor Ivanovich: *See—*
Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna,3,442,090.
Vanover, James L., to United States of America, Navy. Impact fuse assembly. 3,468,256, 9-23-69, Cl. 102-73.
van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie, to U.S. Philips Corporation, mesne. Two transistor resonant circuit employing series diode compensation. 3,453,553, 7-1-69, Cl. 330-21.
van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie, to U.S. Philips Corporation, mesne. Resonant circuit arrangement. 3,465,261, 9-2-69, Cl. 330-18.
van Overbeek, Adrianus Johannes Wilhelmus Marie: *See—*
Tummers, Leonard Johan; and van Overbeek, Adrianus Johannes Wilhelmus Marie,3,459,967.
Van Overstraeten, Andre: *See—*
Eloy, Fernand G. F.; and Van Overstraeten, Andre,3,420,849.
Van Patten, Charles Douglas, to Stanray Corporation. Hydroplane boat hull. 3,450,085, 6-17-69, Cl. 114-66.5
Van Patten, Eric M.; and Powell, Eugene L., to American Maize-Products Company. Process for the manufacture of crosslinked granular starch products. 3,422,089, 1-14-69, Cl. 260-233.3
Van Pelt, Charles H. C.: *See—*
Brunner, Robert F.; and Van Pelt, Charles H. C.,3,427,743.
Van Pelt, Richard W. Control mechanism actuating motor in incremental manner. 3,426,258, 2-4-69, Cl. 318-18.
Van Peursem, Marvin D., to Winpower Manufacturing Company. Offset actuated hitch. 3,454,285, 7-8-69, Cl. 280-468.
Van Pool, Joe, to Phillips Petroleum Company. Sulfur production. 3,486,860, 12-30-69, Cl. 23-225.
van Poppel, Albertus. Disposable lighter. 3,465,355, 9-2-69, Cl. 431-126.
van Popta, Yftinus Frederik, to N.V. Hollandse Signaalapparaten. Monopulse radar apparatuses. 3,467,963, 9-16-69, Cl. 343-16.
Van Poucke, Raphael Karel; De Cat, Arthur Henri; and Monbaliu, Marcel Jacob, to Gevaert Photo-Producten N.V. Production of photographic color images utilizing pyrazolone color couplers. 3,441,414, 4-29-69, Cl. 96-100.
Van Poucke, Raphael Karel: *See—*
Monbaliu, Marcel Jacob; De Cat, Arthur Henri; and Van Poucke, Raphael Karel,3,476,763.
Van Products, Incorporated: *See—*
Heimbrock, Henry H., 3,430,191.
Van Pul, Bernard, to Motorola, Inc. Methods for making semiconductor structures having glass insulated islands. 3,457,123, 7-22-69, Cl. 148-1.5
Van Raden, Frederick F.: *See—*
Baker, Charles J.; and Van Raden, Frederick F.,3,476,269.
van Renssen, Marinus: *See—*
Fassett, Gardner L.; and van Renssen, Marinus,3,482,286.
van Riemsdijk, Arnoldus J.: *See—*
Bosselaar, Hendrik; and van Riemsdijk, Arnoldus J.,3,462,240.
Van Riet, Josef H.; Stummer, Wilfried; Sandmann, Fritz; and Gallin, Constantin, to Blohm & Voss A.G. Cargo ship construction. 3,440,990, 4-29-69, Cl. 114-72.
Van Rooij, Joannes F.: *See—*
Zimmer, Philip H.; and Van Rooij, Joannes F.,3,446,343.
Van Ruyven, Lodewijk J., to North American Philips Company, Inc. Method of bonding two different materials by electro-magnetic radiation. 3,424,890, 1-28-69, Cl. 219-121.
Van Ryn, Arthur L., to American Seating Company. Folding chair. 3,429,611, 2-25-69, Cl. 297-58.
Van Ryn, Arthur L., to American Seating Company. Folding chair seating. 3,464,753, 9-2-69, Cl. 297-232.
Van Ryn, Arthur L., to American Seating Company. Chair and folding tablet arm structure. 3,479,084, 11-18-69, Cl. 297-162.
Van Saane, Pieter; and Frielink, Johannes M., to Stamicarbon N.V. Process for pyrolyzing copolymers of ethylene and vinyl esters. 3,451,983, 6-24-69, Cl. 260-87.3
Van Sant, Arthur D.: *See—*
Johnson, Ralph E.; and Van Sant, Arthur D.,3,460,755.
Van Sant, Robert H., by; and Van Sant, Ruth G.; quardian. Method of treating seborrheic dermatitis with N,N-diethyl-m-toluamide. 3,452,139, 6-24-69, Cl. 424-324.
Van Sant, Ruth G.: *See—*
Van Sant, Robert H., by; and Van Sant, Ruth G.; quardian,3,452,139.
Van Sant, William A., Jr.: *See—*
Kane, Dennis P.; and Van Sant, William A., Jr.,3,458,206.
Van Saun, Raymond H.; and Foote, Allan E., to Container Corporation of America. Cushioning package. 3,437,198, 4-8-69, Cl. 206-65.
Van Savage, Dolores Annette. Painting guide kit. 3,447,250, 6-3-69, Cl. 35-26.
Van Schaack, Harding. Columnar cabinet for access loops of buried cable. 3,485,932, 12-23-69, Cl. 174-38.

Van Schoiack, Michael M. E., to United States of America, National Aeronautics and Space Administration. High impedance measuring apparatus. 3,434,050, 3-18-69, Cl. 324-57.
Van Schyndel, Andreas: *See—*
Walz, Paul Otto Kurt; Van Schyndel, Andreas; and Pasberg, Max,3,437,017.
Van Sciver, Herbert D., to Budd Company, The. Method and apparatus for producing metal screen sheet. 3,434,938, 3-25-69, Cl. 204-11.
Van Sciver, Herbert D., to Budd Company, The. Package for radio. 3,443,661, 5-13-69, Cl. 181-31.
Van Scoy, Davis A., to Helmerich & Payne, Inc. Fluid diverter. 3,472,280, 10-14-69, Cl. 137-625.43
Van Scoy, Davis A.; and Ford, Gadsen M., Jr., to Helmerich & Payne, Inc. Pig diverter. 3,473,550, 10-21-69, Cl. 137-268.
Van Scoyoc, James N.: *See—*
Tobin, Henry G., Jr.; and Van Scoyoc, James N.,3,433,058.
Van Senden, Karl Gerhard: *See—*
Das, Balaram; and Van Senden, Karl Gerhard,3,459,669.
Vansickle, Robert H.; Linger, Oren R.; and Janshego, James A., to Goodrich, B. F., Company, The. Flexible reinforced hose. 3,481,368, 12-2-69, Cl. 138-125.
Van Sickle, Roswell C., to Westinghouse Electric Corporation. High-speed operating mechanism for a circuit breaker. 3,457,530, 7-22-69, Cl. 335-21.
Van Sipe, Ronald L.: *See—*
Reinecke, Paul W.; Van Sipe, Ronald L.; Dowd, Walter W.; and Liske, Donald O.,3,430,419.
Van Someren, Harris; and Wisti, Morris D., to Star Machine & Tool Co. Speed control apparatus for lathe. 3,483,775, 12-16-69, Cl. 82-2.
Van Someren, Laurence O., to Thermo Electron Engineering Corporation. Method of preparing a single crystal for improved electron emission. 3,432,917, 3-18-69, Cl. 29-558.
Van Steenburgh, Leon R., Jr., to Manitowoc Co., Inc., The. Ice auger with slip drive. 3,449,920, 6-17-69, Cl. 62-136.
Van Steenhoven, Frank: *See—*
Stockwell, Bernard R.; and Van Steenhoven, Frank,3,463,917.
Vansteenkiste, Philip, to Trefileries Leon Bekaert PVBA. Method and apparatus for applying of a non-ferrous overlay on steel or steel alloy articles. 3,449,821, 6-17-69, Cl. 29-474.3
Van Stelle, Richard: *See—*
Maier, Dale E.; Van Stelle, Richard; and Cwik, Joseph A.,3,456,482.
Van Steyn, Gerard Karol, to Owens-Illinois, Inc. Induction heating apparatus. 3,441,706, 4-29-69, Cl. 219-10.75
Van Straaten Chemical Company: *See—*
Biebel, William A., 3,436,873.
van Stratum, Antonius Johannes Alberta; Zalm, Pieter; Verest, Franciscus Johannes; and Henkes, Hans, to U.S. Philips Corporation, mesne. Dispenser cathode made of tungsten powder having a grain size of less than three microns. 3,458,749, 7-29-69, Cl. 313-346.
Vanstrom, Harold J. Metered parts dispensing cartridge. 3,430,809, 3-4-69, Cl. 221-64.
Vanstrum, Robert C.; Harrington, Thomas L.; and Tung, Chi Fang, to Minnesota Mining and Manufacturing Company. Method of making reflex-reflector structures. 3,486,952, 12-30-69, Cl. 156-3.
Van Syoc, Wendell Mason, to Deere & Company. Tractor-implement weight-transfer draft system. 3,463,510, 8-26-69, Cl. 280-405.
Van Tassel, James H.: *See—*
Kiby, Jack S.; Toombs, Harold D.; and Van Tassel, James H.,3,484,534.
Ramsey, Thomas H., Jr.; Van Tassel, James H.; and Abraham, Richard P.,3,453,722.
Van Tassell, Harry M., to Universal Oil Products Company. Recovery of aromatics. 3,436,435, 4-1-69, Cl. 260-674.
Van Tassell, Harry M., to Universal Oil Products Company. Solvent extraction with recycle of light nonaromatic fraction. 3,487,013, 12-30-69, Cl. 208-318.
Van Tassell, Harry M.; and Root, Wayne N., to Universal Oil Products Company. Fractional distillation and recovery of styrene containing sulfur with subsequent bottoms separation. 3,476,656, 11-4-69, Cl. 203-9.
Van Thuong, Truong: *See—*
Bellet, Paul; and Van Thuong, Truong,3,432,393.
Bellet, Paul; Van Thuong, Truong; and Nomine, Gerard,3,471,464.
Van Thyne, Ray J.: *See—*
Hill, Vernon L.; Rausch, John J.; Hess, Alan L.; Van Thyne, Ray J.; and Nichols, Harry R.,3,446,615.
Van Tilburg, Robert W.: *See—*
Brown, Wayne R.; Cawley, Terence J.; and Van Tilburg, Robert W.,3,429,324.
Van Tine, Wilbur; and Kotyuk, Bernard L., to Johns-Manville Corporation. Expansion joints for conduits. 3,460,856, 8-12-69, Cl. 285-53.
Vantorex Limited: *See—*
Parsons, David Gordon; and Turner, Alan Frederick, 3,478,028.
van Tran, Nguyen; and Kehl, Denis, to Compagnie Generale d'Electricite. Apparatus for the controlled release of a plurality of lasers or masers. 3,486,129, 12-23-69, Cl. 331-94.5
Van Tuyl, Thomas Oliver. Suspension insulator having a cap with internal load transmitting surfaces. 3,444,314, 5-13-69, Cl. 174-182.
Van Tuyle, Robert W., to Emery Industries, Inc. Tetrahydrofurfuryl alcohol-polymerized fatty acid esters. 3,470,212, 9-30-69, Cl. 260-347.4
Van Uitert, Le Grand G.: *See—*
Ballman, Albert A.; and Van Uitert, Le Grand G.,3,423,686.
Bonner, William A.; Geusic, Joseph E.; and Van Uitert, Le Grand G.,3,453,561.
Gyorgy, Ernst M.; Le Craw, Roy Conway; and Van Uitert, Le Grand G.,3,428,144.
Rubin, Jerry J.; and Van Uitert, Le Grand G.,3,470,017.
Van Valer, Andrew F. Safety vehicle power distribution system. 3,431,428, 3-4-69, Cl. 307-10.
Van Valkenburg, Ernest S., to Bendix Corporation, The. Data display system with lateral photocell for digital repositioning of displayed data. 3,440,638, 4-22-69, Cl. 340-324.
van Veelen, George Frans: *See—*
Willems, Jozef Frans; van Veelen, George Frans; and De Haes, Maria Louis,3,431,108.
Van Veld, Robert Dale, to Du Pont de Nemours, E. I., and Company. Method for measuring bulk level of yarn. 3,471,702, 10-7-69, Cl. 250-219.
van Venrooy, John J., to Sun Oil Company. Fluorene nucleus derivatives of polyphenyl compounds. 3,429,908, 2-25-69, Cl. 260-448.
van Venrooy, John J., to Sun Oil Company. Carbon disulfide sulfiding of catalysts. 3,477,963, 11-11-69, Cl. 252-439.
Van Vliet, Lyman B., Jr., to General Motors Corporation. Wide angle viewing device. 3,439,971, 4-22-69, Cl. 350-45.
Van Vliet, Lyman B., Jr.; and Siebert, John N., Jr., to General Motors Corporation. Automatic optical range finder. 3,471,235, 10-7-69, Cl. 356-4.
Van Voorhis, Daniel E., to Reliance Electric and Engineering Company, The. Newel structure for passenger conveyors. 3,442,367, 5-6-69, Cl. 198-16.
Van Vorous, Theodore: *See—*
Baum, Gary Allen; Beno, Richard L.; and Van Vorous, Theodore,3,428,546.
Van Vroonhoven, Casper Ebeline Gerardus Martinus Marie, to U.S. Philips Corporation, mesne. Filtering apparatus using an electric field. 3,484,362, 12-16-69, Cl. 204-302.
Van Vucht, Johannes Hendrikus Nicolaas: *See—*
De Haan, Edward Fokko; Schampers, Paulus Philippus Maria; and Van Vucht, Johannes Hendrikus Nicolaas,3,444,412.
Van Vulpen, Aalbert: *See—*
Joormann, Hendrik Jacobus Maria; and Van Vulpen, Aalbert,3,475,713.
Van Wagenen, Norman L.; and Lamph, Ara Norman. Fluid motor transmission and improvements therein. 3,420,059, 1-7-69, Cl. 60-53.
Van Wasielewski, Erwin: *See—*
Wick, Richard; Bestenrainer, Friedrich; and Van Wasielewski, Erwin,3,433,140.
Van Way, Jim P.: *See—*
Smith, Larry G.; Blake, Gordon H.; and Van Way, Jim P.,3,438,678.
Van Wazer, John R.: *See—*
Eisenhuth, Wolfgang H.; Moedritzer, Kurt; and Van Wazer, John R.,3,487,096.
Grant, David; and Van Wazer, John R.,3,442,921.
Moedritzer, Kurt; and Van Wazer, John R.,3,466,314.
Moedritzer, Kurt; and Van Wazer, John R.,3,470,220.
Riess, Jean G.; and Van Wazer, John R.,3,420,864.
Van Weelde, Donald J.: *See—*
Solomon, William H.; Van Weelde, Donald J.; and Forward, Carrel M.,3,451,874.
Van Weeren, Pieter A.: *See—*
Quik, Willem C. J.; and Van Weeren, Pieter A.,3,449,078.
Van Weert, Gezinus; and Valen, Jon-Olaf, to Falconbridge Nickel Mines Limited. Thermal treatments in fluidized beds. 3,466,021, 9-9-69, Cl. 263-21.
Vanwert, Bernard: *See—*
Clark, Harold A.; and Vanwert, Bernard,3,433,760.
Van Wert, Ralph B.: *See—*
Lane, George A.; Smith, William A.; and Van Wert, Ralph B.,3,475,237.
van Westrenen, William J., to Shell Oil Company. Process for preparing water-soluble epoxy resin esters. 3,464,939, 9-2-69, Cl. 260-22.
van Westrenen, William J., to Shell Oil Company. Process for coating paper with a starch-vinyl ester terpolymer latex binder. 3,477,871, 11-11-69, Cl. 117-155.
van Westrum, Anthony Colby S.: *See—*
Cook, William A.; van Westrum, Anthony Colby S.; Dotter, Charles T.; and Bilbao, Marcia Kepler,3,481,323.

Van Wieren, Wilhelmine H.; and Damisch, George A., to Borden Company, The. Soluble edible sodium caseinates prepared by oxidizing casein dispersions with H_2O_2 or Cl_2 and then solubilizing the resultant products with a food grade sodium compound. 3,420,811, 1-7-69, Cl. 260-119.

Van Wingen, Peter M., to Wolverine Brass Works. Valving unit for single lever faucet. 3,425,440, 2-4-69, Cl. 137-454.6

Van Winkle, Denzal W.; and Carlisle, Fredrick Madden, to Baker Oil Tools, Inc. Thread sealing composition. 3,437,630, 4-8-69, Cl. 260-33.6

Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F., to Shell Oil Company. Single stage hydroformylation of olefins to alcohols. 3,420,898, 1-7-69, Cl. 260-632.

Van Winkle, John L.; Morris, Rupert C.; and Mason, Ronald F., to Shell Oil Company. Single-stage hydroformylation of olefins to alcohols. 3,440,291, 4-22-69, Cl. 260-632.

Van Winkle, Roy L.: *See—*
Dyer, Norman D.; and Van Winkle, Roy L.,3,446,284.

van Winsen, Friedrich H., to Daimler-Benz Aktiengesellschaft. Spring suspension for vehicle wheels. 3,447,796, 6-3-69, Cl. 217-15.

Van Winsen, Friedrich H.; and Haverbeck, Gunther, to Daimler-Benz Aktiengesellschaft. Means for orientating the earth working implement of a mechanical earth working machine Suspension of an auxiliary frame at the. 3,481,622, 12-2-69, Cl. 294-86.

van Winsen, Friedrich H.: *See—*
Kraus, Ludwig; and van Winsen, Friedrich H.,3,428,142.

Van Wirt, Alfred E., to Hercules Incorporated. Production of lead nitrate. 3,423,169, 1-21-69, Cl. 23-102.

van Witteveen, Roland Anton Johan Otto: *See—*
Meijer, Roelf Jan; and van Witteveen, Roland Anton Johan Otto,3,442,079.
Meijer, Roelf Jan; Fokker, Herman; and van Witteveen, Roland Anton Johan Otto,3,456,438.

Van Woert, Kenneth B., Jr. Toy amusement bank. 3,474,562, 10-28-69, Cl. 46-3.

Van Wormer, Roger P.: *See—*
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P.,3,423,733.
Auer, John H., Jr.; Huffman, Jerry P.; and Van Wormer, Roger P.,3,482,208.

Van Wyk, Jan W., to Boeing Company, The. High strength, self-lubricating materials. 3,479,289, 11-18-69, Cl. 252-12.

Vanyo, James P.: *See—*
Kolin, Alexander; and Vanyo, James P.,3,446,071.

Vanzandt, Rollin P.: *See—*
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.

van Zanten, Marinus: *See—*
Bezemer, Cornelis; Meijs, Franciscus H.; van Zanten, Marinus; and Wittenwyler, Clifford V.,3,476,189.

van Zijl, Franciscus H.: *See—*
Seeder, Wilhelm A.; and van Zijl, Franciscus H.,3,444,826.

Van Zijll Langhout, Wouter C., to Shell Oil Company. Process for the hydrogenative cracking of a hydrocarbon oil to produce lubricating oil. 3,444,071, 5-13-69, Cl. 208-59.

Van Zile, Leon E.: *See—*
Pritchard, George A.; and Van Zile, Leon E.,3,451,957.

Vanzini, Sergio. Umbrella construction. 3,435,836, 4-1-69, Cl. 135-22.

Vapor Corporation: *See—*
Cook, Thomas F.; and Dybczak, Stanley E., 3,425,622.
Daugirdas, Kristupas, 3,453,778.
Edgemond, John W., Jr.; and Boyen, John L., 3,448,770.
Lynn, Robert J.; and Daugirdas, Kristupas, 3,438,148.
Lynn, Robert J.; and Daugirdas, Kristupas, 3,462,881.
Peterson, Bruce E., 3,444,453.
Vinet, Marius, 3,425,408.
Whiston, Donald H.; and Flannery, Edward J., 3,429,222.

Varadi, Peter F., to Machlett Laboratories, Incorporated, The. Monolithic electrode for electron tubes. 3,463,978, 8-26-69, Cl. 313-250.

Varah, Frank Alwyn, to Balfour & Darwins Limited. Sealing devices. 3,485,927, 12-23-69, Cl. 13-15.

Varani, Frederick T.: *See—*
Gyde, Donald G.; Meindl, Howard R.; and Varani, Frederick T.,3,463,098.

Varaxin, Alexei Ivanovich: *See—*
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Orlov, Boris Yakovlevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich,3,480,074.

Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Kuznetsov, Leonid Georgievich; Niskovskikh, Vitaly Maximovich; and Rolnik, Savva Abramovich. System of secondary cooling in continuous casting plants. 3,480,075, 11-25-69, Cl. 164-283.

Varco Incorporated: *See—*
Rizner, John S., 3,446,647.

Varco, Samuel. Pelvic traction belt. 3,452,747, 7-1-69, Cl. 128-75.

Varco-Pruden, Inc.: *See—*
Ellis, Kenneth A., 3,456,471.

Vardaros, John. Cosmetic kits. 3,426,768, 2-11-69, Cl. 132-79.

Vare Corporation: *See—*
Bedford, William A., Jr., 3,434,520.
Nielsen, Hans B., 3,455,179.
Thurston, Raymond L., 3,438,416.

Varesi, Steve F.: *See—*
Lyons, Donald F., 3,422,497.

Varga, John Maximiliam Jules. Carding machines. 3,465,389, 9-9-69, Cl. 19-98.

Varga, Le Roy M., to Stapling Machines Co. Draining conveyor. 3,429,652, 2-25-69, Cl. 21-70.

Varga, Tibor Joseph. Protective helmet for babies. 3,478,365, 11-18-69, Cl. 2-3.

Vargas, Jose Leal. Fail-safe hydraulic brake system. 3,467,445, 9-16-69, Cl. 303-84.

Vargas, Ysmail C. Article-wrapping machine. 3,431,701, 3-11-69, Cl. 53-209.

Vargasov, Alexandr Ivanovich: *See—*
Solokhin, Boris Ivanovich; Krauze, Gennady Nikolaevich; and Vargasov, Alexandr Ivanovich,3,480,097.

Vargen, Richard, to California Packing Corporation. Expendable fibre side filler for railroad cars. 3,424,108, 1-28-69, Cl. 105-369.

Vargha, Laszlo: *See—*
Kasztreiner, Endre; Borsi, Jozsef; Vargha, Laszlo; Boris, Meszaros, Erika; and Szilagyi, Geza,3,432,549.

Vargo, Edward J., to United States of America, Atomic Energy Commission. Method of increasing the corrosion resistance of cobalt-based alloys to mercury. 3,449,143, 6-10-69, Cl. 117-2.

Vargo, Stephen G.: *See—*
Beck, George P.; and Vargo, Stephen G.,3,454,866.

Vargo, William S., to Eltra Corporation. Unitary hydraulic shock absorber and actuator. 3,473,325, 10-21-69, Cl. 60-52.

Vari-L Company, Inc.: *See—*
Kiser, Joseph H., 3,473,128.

Varian Associates: *See—*
Ackley, James W., 3,442,252.
Anderson, Weston A., 3,469,180.
Anderson, Weston A.; and Ernst, Richard, 3,475,680.
Arfin, Bernard; and Shively, James F., 3,448,326.
Badger, George M. W., 3,456,207.
Bakalyar, Stephen R.; and Kramasz, Joseph, Jr., 3,446,057.
Bates, Clayton W., Jr.; and Bell, Ronald L., 3,473,066.
Boilard, Dennis I.; and Mizuhara, Albert, 3,448,313.
Brown, Harmon W., 3,437,805.
Brown, Harmon W., 3,443,088.
Brown, Harmon W., 3,449,563.
Brown, Harmon W., 3,462,595.
Brown, Harmon W., 3,478,203.
Buckley, Thaddeus M., 3,439,296.
Chun, Herbert H., 3,441,794.
Cook, Edward J., 3,436,593.
Cook, Edward J., 3,443,244.
Cook, Edward J., 3,448,331.
Dimick, Keene P.; Hartmann, Charles H.; Oaks, Dudley M., Jr.; and Trone, Elmer, 3,423,181.
Erickson, Raymond A., 3,423,584.
Erickson, Raymond A.; and Brown, Harmon W., 3,433,945.
Erickson, Raymond A., 3,439,162.
Erickson, Raymond A., 3,469,094.
Espinosa, Robert J., 3,433,999.
Espinosa, Robert J., 3,471,739.
Farney, George K., 3,484,649.
Feinleib, Morris, 3,475,707.
Feinstein, Joseph, 3,439,212.
Feinstein, Joseph; Jory, Howard R.; and Trivelpiece, Alvin W., 3,450,931.
Feinstein, Joseph; and Jory, Howard R., 3,457,450.
Francis, Arthur B., 3,433,569.
Frutiger, William A., 3,475,696.
Gang, Robert E., 3,434,085.
Gang, Robert E.; and Johnson, Richard L., 3,437,963.
Gang, Robert E., 3,474,222.
Gerlack, Richard Z., 3,474,360.
Gielow, David E.; and Llewellyn, Peter M., 3,446,957.
Gielow, David E.; and Littlejohn, Duane P., 3,471,691.
Hackley, Thomas H.; and Lloyd, William A., 3,465,359.
Hackley, Thomas H.; and Johnson, Nicky M., 3,465,360.
Hait, Paul W., 3,472,039.
Hechtel, Johann R., 3,436,588.
Heil, Oskar, 3,441,784.
Helmer, John C., 3,435,334.
Hetherington, James S., 3,445,625.
Hetherington, James S.; and Skinner, James R., 3,469,013.
Johnson, Floyd O., 3,434,076.
Johnson, Nicky M., 3,434,154.

Johnson, Richard L., 3,460,083.
Jory, Howard R.; and Trivelpiece, Alvin W., 3,463,959.
Kroemer, Herbert, 3,467,896.
Lamont, Lawrence T., Jr., 3,452,923.
Lamont, Lawrence T., Jr., 3,460,745.
Leidigh, William J., 3,453,483.
Lien, Erling L.; and Leidigh, William J., 3,448,325.
Lien, Erling L., 3,450,930.
Lien, Erling L.; and Leidigh, William I, 3,483,420.
Littlejohn, Duane P.; and Llewellyn, Peter M., 3,445,649.
Llewellyn, Peter M., 3,421,292.
Llewellyn, Peter M.; and Littlejohn, Duane P., 3,429,105.
Llewellyn, Peter M., 3,455,092.
Llewellyn, Peter M.; and Littlejohn, Duane P., 3,471,692.
Llewellyn, Peter M., 3,475,605.
Lloyd, William A.; and Sweet, Richard G., 3,454,953.
Luebke, William R., 3,483,419.
Mann, Joseph K., 3,471,810.
Marshall, Harry L., 3,474,295.
Minard, Charles D.; and Francis, Arthur B., 3,442,594.
Miram, George V., 3,475,644.
Mosher, Charles H., 3,469,209.
Nelson, Forrest A., 3,427,532.
Nelson, Forrest A., 3,434,043.
Nelson, Forrest A.; Anderson, Weston A.; and Rock, John V., 3,443,209.
Nelson, Forrest A.; and Ernst, Richard R., 3,461,381.
Nelson, Forrest Arthur, 3,450,952.
Paitich, Ronald M., 3,462,677.
Pappalardo, Thomas J., 3,440,577.
Phillips Robert M., 3,466,493.
Polese, James P., 3,465,400.
Preist, Donald H.; and Talcott, Ruth Carlson, 3,448,413.
Preist, Donald H., 3,453,482.
Pryor, Glenn G., 3,471,744.
Rohrer, Daniel F., 3,480,200.
Rossini, Giordano D., 3,445,789.
Schmidt, Robert C., 3,447,018.
Schrager, Hubert I.; and Waters, William E., 3,475,643.
Sharp, John Beverley, 3,451,207.
Sher, Arden, 3,452,295.
Shively, James F.; and Staprans, Armand, 3,454,817.
Solomon, Raymond; and Mueller, Louis F., Jr., 3,469,207.
Spicer, William E., 3,475,411.
Stuart, William R., 3,445,712.
Vessot, Robert F. C., 3,462,705.
Ward, Curtis E., 3,466,495.
Ward, Curtis E., 3,475,645.
Weaver, Harry E., Jr.; and Kingston, Floyd E., 3,474,294.
Weissman, Ira; and Kinter, Malcolm L., 3,441,880.
Weissman, Ira, 3,441,881.
Wheeler, William R., 3,458,221.
White, Jerome R., 3,471,672.
White, Jerome R., 3,474,212.
White, Jerome R., 3,478,188.
Whitehorn, Richard M., 3,471,806.
Williams, Norman H., 3,461,401.
Winslow, Lester M., 3,421,040.

Varian International AG.: *See—*
Bodmer, Arthur, 3,440,631.

Varian mat G.m.b.H.: *See—*
Brunnee, Curt; and Kappus, Gunter, 3,431,451.
Brunnee, Curt; and Kappus, Gunter, 3,444,366.

Varick, Lawrence: *See—*
Carpenter, Walter E.; and Varick, Lawrence,3,422,302.

Varilek, Ronald D., to Allis-Chalmers Manufacturing Company. Fork interchanger. 3,480,167, 11-25-69, Cl. 214-620.

Varispace Industries, Inc.: *See—*
Ryswick, Edward L., 3,476,046.

Varityper Corporation: *See—*
Gardella, Anthony, 3,485,336.
Marum, Helmut, 3,476,229.
Tibbling, Stig B.; and Greenwood, David L., 3,440,936.

Varker, Alan E., to ESB Incorporated, mesne. Polymerizable solvent adhesive composition containing mixed cobalt/zinc catalyst promoter. 3,446,874, 5-27-69, Cl. 260-880.

Varl-L Company, Inc.: *See—*
Kiser, Joseph H., 3,445,755.

Varley, Jack C. Magnetic deodorant fixture. 3,423,022, 1-21-69, Cl. 239-53.

Varlonga, Giovanni. Shutter window with an elastic element for holding and retaining the plate. 3,475,863, 11-4-69, Cl. 49-367.

Varnell, William R.; and Mitchell, Mance R., to Concrete Development Corporation. Structures made from polyester resin concrete. 3,443,347, 5-13-69, Cl. 52-224.

Varnell, William R.; and Mitchell, Mance R., to Concrete Development Corporation. Signs. 3,466,778, 9-16-69, Cl. 40-136.

Varner, Donald E.: *See—*
Lehman, Don F.; and Varner, Donald E.,3,426,200.

Varner, Horace M., to Bendix Corporation, The. Linear actuator and quadruple redundant type fail operative closed loop servo system. 3,457,479, 7-22-69, Cl. 318-18.

Varnerin, Lawrence J., Jr.: *See—*
Denton, Richard T.; and Varnerin, Lawrence J., Jr.,3,435,234.
Koo, James T.; Tabor, William J.; and Varnerin, Lawrence J., Jr.,3,454,938.

Varnes, John D., to Union Tank Car Company, mesne. Railway freight car. 3,474,740, 10-28-69, Cl. 105-360.

Varney Chemical Corporation: *See—*
Sanders, Herbert L., 3,476,598.

Varney, Pahilip L.: *See—*
Weichselbaum, Theodore E.; and Varney, Pahilip L.,3,436,171.

Varo, Inc.: *See—*
Berlin, Irving, 3,474,319.
Holt, William J., Jr., 3,461,326.
Hyde, Robert L., 3,465,231.
Wilkinson, Bruce L., 3,445,775.

Varrasso, Eugene C.: *See—*
Stalego, Charles J.; and Varrasso, Eugene C.,3,468,643.

Varron, Arleen S., to Inmont Corporation. Compositions of ethylene polymers and wax. 3,470,123, 9-30-69, Cl. 260-28.5

Varsane, Robert G.: *See—*
Belko, William R., Jr.; Cobb, Thomas F.; and Varsane, Robert G.,3,466,513.

Varsanyi, Denis; and Roth, Willy, to Geigy Chemical Corporation. Shoe polishing compositions containing N,N-bis- (bis-amino-s-triazinyl)-alkylamines. 3,467,532, 9-16-69, Cl. 106-3.

Varson, Robert J.: *See—*
Berlinsky, Anthony A.; Varson, Robert J.; Pearson, Gordon W.; and Krebeck, Norman C.,3,484,970.

Varta Aktiengesellschaft: *See—*
Deseniss, Philipp, 3,429,747.
Haebler, Herbert, 3,436,266.
Haebler, Herbert, 3,459,595.
Haebler, Herbert, 3,486,941.
Horn, Lutz; Phillip, Fritz; and Haake, Heinz, 3,442,717.
Jung, Margarete; Becker, Harald; and von Doehren, Hans, 3,479,276.
Justi, Eduard; and Winsel, August, 3,428,491.
Justi, Eduard; and Winsel, August, 3,455,804.
Mueller, Gerd, 3,468,713.
Spahrbier, Dieter, 3,451,853.
Steffens, Karl, 3,476,286.
Steffens, Karl, 3,483,043.
Sucher, Josef; Werner, Siegfried; Schlosser, Hellmut; Chojnowski, Manfred; and Hain, Josef, 3,479,723.
Wicke, Ewald; and Kuessner, Albrecht, 3,455,845.
Winsel, August, 3,481,789.
Winsel, August, 3,484,617.
Witte, Josef; Herrmann, Marion; Woidt, Jurgen; and Peters, Freimut, 3,457,111.

Varta Pertrix-Union G.m.b.H.: *See—*
Arbter, Erhard, 3,440,110.
Huber, Richard, 3,440,104.
Riedl, Werner, 3,468,715.
Schmier, Alfred, 3,427,128.

Vartanian, Andrew; and Vartanian, Haig, to Gem Marketing Corporation. Appliance dolly. 3,430,973, 3-4-69, Cl. 280-35.

Vartanian, Edwin S.: *See—*
Badali, Joseph A.; Kulikowski, Victor Alexander; and Vartanian, Edwin S.,3,456,375.

Vartanian, Edwin S.; and Jarvis, Jay P., to Olin Mathieson Chemical Corporation. Removable cocking handle for a firearm breech bolt and mounting means therefor. 3,432,955, 3-18-69, Cl. 42-16.

Vartanian, Haig: *See—*
Vartanian, Andrew; and Vartanian, Haig,3,430,973.

Vartanian, Levon: *See—*
Kurth, Raymond P.; and Vartanian, Levon,3,429,309.

Vartanian, Richard Dickran, to American Cyanamid Company. Stable mineral oil-silicone oil compositions. 3,445,385, 5-20-69, Cl. 252-8.8

Varterasian, John H.; and Ek, C. Harold, to General Motors Corporation. Radio volume control proportional to speed. 3,431,498, 3-4-69, Cl. 325-406.

Vary, Alex, to United States of America, National Aeronautics and Space Administration. Triode thermionic energy converter. 3,446,997, 5-27-69, Cl. 310-4.

Vasan, Srini, to International Minerals & Chemical Corporation. Method for producing granular product. 3,440,033, 4-22-69, Cl. 71-28.

Vasan, Srini, to International Minerals and Chemical Corporation. Fertilizer prill consisting of ammonium nitrate and langbeinite and the method of preparing said prill. 3,476,544, 11-4-69, Cl. 71-59.

Vasas, Peter. Scraper blade supporting means. 3,463,523, 8-26-69, Cl. 287-189.36

Vasco Industries Corporation: *See—*
Inklaar, Petrus A., 3,450,752.
Inklaar, Petrus Adam, 3,455,483.

Vasco Metals Corporation: *See—*
Nyselius, Gustav, 3,461,946.
Vasel, Alfred W. Smoke detector with means indicating the failure of the light source. 3,461,443, 8-12-69, Cl. 340-228.
Vasilantone, Michael. Stencil printing machine. 3,427,964, 2-18-69, Cl. 101-115.
Vasilantone, Michael. Continuous printer with means to maintain a moving web laterally taut. 3,468,247, 9-23-69, Cl. 101-115.
Vasile, Carmine F.: *See—*
Cafarella, Thomas; and Vasile, Carmine F.,3,458,819.
Vasilenko, Evstafy Andreevich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Vasiliev, Vladimir Sergeevich; Zusman, Vladimir Grigorievich; Ratmirov, Valery Arkadievich; and Agursky, Melib Samuilovich. System of program control of feeds drive in electroerosion gouging machines. 3,475,578, 10-28-69, Cl. 219-69.
Vass, Alexander A. Device for administering a fluid into the intestinal tract. 3,469,571, 9-30-69, Cl. 128-2.
Vass, Alexander A.; and Vass, Clara. Rectal nozzle assembly. 3,469,575, 9-30-69, Cl. 128-245.
Vass, Clara: *See—*
Vass, Alexander A.; and Vass, Clara,3,469,575.
Vassaux, Ricardo A., to United Sheet Metal Co., Inc. Fire damper. 3,467,163, 9-16-69, Cl. 160-1.
Vassell, William C.: *See—*
Lambe, John J.; and Vassell, William C.,3,445,724.
Vasserman, Sakko Borisovich: *See—*
Abramyan, Evgeny Aramovich; Vasserman, Sakko Borisovich; Gaponov, Vasily Alexandrovich; and Krainov, Gennady Sergeevich,3,450,996.
Vasseur, Jean-Pierre, to CSF-Compagnie Generale dc Telegraphie Sans Fil. Pulse frequency divider. 3,424,986, 1-28-69, Cl. 328-48.
Vassil, George: *See—*
Toomey, Robert D.; and Vassil, George,3,446,579.
Vassileff, Neiko I. Metal treating bath and chelating agent for metal reactive acid baths. 3,438,901, 4-15-69, Cl. 252-79.3
Vassilevsky, Anatole N., to V.R.B. Associates, Inc. Light-weight high-strength cement compositions. 3,447,938, 6-3-69, Cl. 106-105.
Vassilevsky, Anatole N.; and Bostroem, Theodore. Cementitious composition, products made therefrom, and process of making and using the same. 3,483,006, 12-9-69, Cl. 106-74.
Vasta, Joseph A., to Du Pont de Nemours, E. I. and Company. Polymers having adjacent pendent esters groups. 3,427,291, 2-11-69, Cl. 260-78.5
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Polyurethane adhesives based on diisocyanates and epoxy ester-dibasic acid adduct. 3,433,771, 3-18-69, Cl. 260-77.5
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Novel polymers having pendent ester groups. 3,442,873, 5-6-69, Cl. 260-78.5
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Coating compositions formed from polymers having adjacent pendent ester groups. 3,471,457, 10-7-69, Cl. 260-78.5
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Curing catalyst. 3,480,560, 11-25-69, Cl.
Vater, Wulf: *See—*
Bossert, Friedrich; and Vater, Wulf,3,429,896.
Bossert, Friedrich; and Vater, Wulf,3,470,297.
Bossert, Friedrich; and Vater, Wulf,3,485,847.
Vaterlaus, Bruno Peter: *See—*
Kiss, Joseph; Spiegelberg, Hans; Vaterlaus, Bruno Peter; Rachlin, Albert; and Doebel, Karl,3,445,455.
Vatmakher, Usher Abramovich; Tolstopyatova, Inga Alexandrovna; Shvartz, Yakov Iosifovich; and Pyankova, Tamara Ivanovna. Apparatus for recording resistance changes during the entire coagulation process in a biological fluid. 3,467,862, 9-16-69, Cl. 324-65.
Vatne, Robert D.: *See—*
Berndt, Edward W.; and Vatne, Robert D.,3,424,845.
Vatne, Robert D.; and Baron, Robert R., to Salsburg Laboratories. Compositions and a method for the prevention and control of histomoniasis which employ a 5- nitroimidazole and a benzenearsonic acid. 3,439,097, 4-15-69, Cl. 424-273.
Vatterott, Oskar F., to Southwestern Nursery Supply Company. Balling and bagging machine for nursery stock and the like. 3,422,595, 1-21-69, Cl. 53-124.
Vatti, Thammayya. Instant sari. 3,478,367, 11-18-69, Cl. 2-76.
Vattuone, Giuseppe. Totally or partially prefabricated structure bardam for the protection of harbors. 3,431,734, 3-11-69, Cl. 61-4.
Vaughan & Bushnell Mfg., Co.: *See—*
Norcross, John C., 3,456,330.
Vaughan, Carroll P.: *See—*
Stroud, Herbert O.; and Vaughan, Carroll P.,3,451,757.
Vaughan Co., Inc.: *See—*
Vaughan, James E., 3,420,452.
Vaughan, David A.: *See—*
Bender, Paul H.; and Vaughan, David A.,3,430,235.
Vaughan, Frank C., to Bauer Bros. Co., The. Refining apparatus. 3,448,934, 6-10-69, Cl. 241-146.
Vaughan, George W.; Barton, Walter S.; and Simpson, Mott E., to Vaughan Industries, Inc. Container dispenser having an escapement assembly. 3,467,275, 9-16-69, Cl. 221-197.
Vaughan, Harry L.: *See—*
Daugherty, Phillip M.; Lovejoy, Charles K.; and Vaughan, Harry L.,3,467,564.
Vaughan Industries, Inc.: *See—*
Vaughan, George W.; Barton, Walter S.; and Simpson, Mott E., 3,467,275.
Vaughan, James E., to Vaughan Co., Inc. Liquid manure spreader. 3,420,452, 1-7-69, Cl. 239-670.
Vaughan, Roy C. Miniature direct current motor with permanent magnet rotor. 3,426,223, 2-4-69, Cl. 310-42.
Vaughan, Thomas W.: *See—*
Elmendorf, Armin; Etzold, Roland; and Vaughan, Thomas W.,3,457,094.
Vaughan, Wayne W.; Wilson, Richard R.; Powell, Paul B., Jr.; and Henry, Lloyd S., to Vaughn Interior Walls, Inc. Wall construction and sound attenuation means therefor. 3,447,275, 6-3-69, Cl. 52-592.
Vaughan, William: *See—*
Fitzmaurice, John A.; and Vaughan, William,3,461,301.
Vaughn, Eldon D., to Warner-Lambert Pharmaceutical Company. Null detector employing a product detector therein. 3,466,551, 9-9-69, Cl. 328-146.
Vaughn, Howard A., Jr., to General Electric Company. Disilahexanediol. 3,444,229, 5-13-69, Cl. 260-448.8
Vaughn Interior Walls, Inc.: *See—*
Vaughan, Wayne W.; Wilson, Richard R.; Powell, Paul B., Jr.; and Henry, Lloyd S., 3,447,275.
Vaughn, John H., deceased (by Vaughn, Ogretta H., legal representative); and Vaughn, John H., deceased, to Curtiss-Wright Corporation. Pressure vessel of metal and silicon monoxide layers. 3,466,224, 9-9-69, Cl. 161-165.
Vaughn, John H.: *See—*
Vaughn, John H.; and Vaughn, John H., deceased,3,466,224.
Vaughn, Lawrence M.: *See—*
Fall, Herbert S.; Harrell, James M.; Pulley, James A.; Vaughn, Lawrence M.; York, William D.; and Young, Wayne H.,3,450,446.
Fall, Herbert S.; Harrell, James M.; York, William D.; Young, Wayne H.; and Vaughn, Lawrence M.,3,485,539.
Vaughn Machinery Company, The: *See—*
Bittman, Jess C.; and Miles, John H., 3,443,605.
Vaughn, Owen. Torque amplifier. 3,424,026, 1-28-69, Cl. 74-572.
Vaughn, Robert L.: *See—*
Cook, Nathan H.; and Vaughn, Robert L.,3,424,054.
Vaughn, Rudolph Marion. Captured panel fastener. 3,476,165, 11-4-69, Cl. 151-69.
Vaughn, Rudolph M. Apparatus for forming undercut screw head slots. 6,470,563, 7-8-69, Cl. 10-7.
Vaught, Leonard M.; and Cervenka, Lee Roy, to Dow Chemical Company, The. Process for improving electrical and thermal contacts. 3,439,080, 4-15-69, Cl. 264-105.
Vauk, Helmut A.: *See—*
Allen, Kenneth C.; and Vauk, Helmut A.,3,447,992.
Vaurio, Frans V. E., to Fox River Paper Corporation. Raised printing. 3,432,328, 3-11-69, Cl. 117-38.
Vaurio, Frans V. E., to Fox River Paper Corporation. Raised printing process. 3,440,076, 4-22-69, Cl. 117-13.
Vautaw, Robert L.; and Wilcox, Richard C., to Arvin Industries, Inc. Muffler. 3,469,653, 9-30-69, Cl. 181-54.
Vautier, Jean, to Automobiles M. Berliet. Leaf-spring suspension for automobile vehicles and the like, especially for industrial vehicles. 3,430,976, 3-4-69, Cl. 280-124.
Vautrain, Lucien H.; and Hughes, Darrel W., to Phillips Petroleum Company. Plural stages of sulfur removal. 3,474,027, 10-21-69, Cl. 208-227.
Vautrain, Lucien H.: *See—*
Reeve, Clifford L.; and Vautrain, Lucien H.,3,438,395.
Vautrey, Louis, to Commissariat a l'Energie Atomique. Mechanism for effecting the positional adjustment of nuclear reactor control rods. 3,432,047, 3-11-69, Cl. 214-27.
Vavilov, Igor Konstantinovich: *See—*
Ivakin, Boris Fedorovich; Vavilov, Igor Konstantinovich; Rozental, Nikolai Konstantinovich; and Roizen, Vladimir Zinovievich,3,448,418.
Vavrina, Karel: *See—*
Balcar, Oldrich; and Vavrina, Karel,3,456,291.
Vawter, Verne E. System for numerically controlling large masses. 3,476,327, 11-4-69, Cl. 242-18.
Vayssiere, Pierre; and Dumont-Fillon, Jacques, to Institut de Recherches de la Siderurgie Francaise. Method and arrangement for determining the oxidation reactions during refining of metals. 3,463,631, 8-26-69, Cl. 75-60.
Vazzano, Philip: *See—*
Tatter, Ernest O. P.; and Vazzano, Philip,3,420,460.

Tatter, Ernest O. P.; and Vazzano, Philip,3,452,992.
Tatter, Ernest O. P.; and Vazzano, Philip,3,462,158.
VDO Tachometer Werke Adolf Schindling G.m.b.H.: *See—*
Rausch, Konrad, 3,424,003.
Werner, Johannes; Golde, Hans; and Schlick, Horst, 3,443,307.
Vdovin, Valentin Mikhailovich: *See—*
Nametkin, Nikolai Sergeevich; Vdovin, Valentin Mikhailovich; and Zavyalov, Valery Ivanovich,3,422,039.
Ve Nard, Dan L., to Lear Jet Industries, Inc. Synthetic wave three phase alternating current power supply system. 3,477,010, 11-4-69, Cl. 321-5.
Vearncombe, Richard Frank: *See—*
Moore, Arthur Ivan Walter; Porter, John Howard; Middle, George Henry; and Vearncombe, Richard Frank,3,464,098.
Veatch, Franklin: *See—*
Alford, Harvey E.; and Veatch, Franklin,3,458,332.
Veazey, Thomas M., to Monsanto Company. Fluid mixing device. 3,420,267, 1-7-69, Cl. 137-604.
VEB Arzneimittelwerk: *See—*
Dauth, Christoph Eugen; Tonjes, Heinz Karl Wilhelm; Heidenbluth, Karlheinz; and Schmidt, Joachim Fritz, 3,475,449.
Hoffmann, Klaus, 3,476,692.
Markwardt, Fritz; Schafer, Gerhard; Topfer, Horst; and Walsmann, Peter, 3,432,596.
Veb Berlin-Chemie: *See—*
Strack, Erich; and Lorenz, Irmgard, 3,468,937.
VEB Buchungsmaschinenwerk Karl Marx-Stadt: *See—*
Kutschbach, Ernst, 3,461,404.
VEB Carl Zeiss Jena: *See—*
Dietrich, Rudolf; and Zollner, Harry, 3,481,658.
Hever, Klaus, 3,448,374.
Heyroth, Alexander, 3,455,025.
Pfeifer, Karl, 3,430,056.
Scholer, Horst; and Herda, Klaus, 3,464,759.
Seiferth, Heinz, 3,457,004.
Veb Chemiefaserwerk 'Friedrich Engels':*See—*
Muller, Klaus R. A.; Sych, Georg M.; and Zimmerman, Heinz, 3,441,540.
VEB Chemiekombinat Bitterfeld: *See—*
Henneberger, Friedrich; and Gebhardt, Fritz, 3,469,942.
VEB Druckmaschinenwerk Planeta: *See—*
Reinhardt, Peter, 3,447,800.
Rudolph, Otfried; and Lucius, Gunter, 3,455,547.
Rudolph, Otfried, 3,463,484.
VEB Druckmaschinenwerke Leipzig: *See—*
Schmidt, Joachim, 3,458,186.
VEB Elektromaschinenbau Sachsenwerk: *See—*
Philipp, Christian, 3,460,415.
VEB Elktromat: *See—*
Eichelmann, Johannes, 3,458,145.
VEB Fahrradwerk Elite-Diamant: *See—*
Gansauge, Albert, 3,472,047.
VEB Fernsehgeratewerke Stassfurt: *See—*
Erler, Heinz; Reher, Bernhard; and Hopp, Hartwig, 3,483,483.
VEB Feuerloschgeratewerk Neuruppin: *See—*
Schreiber, Martin Hans, 3,445,384.
VEB Funkwerk Erfurt: *See—*
Fuchs, Klaus, 3,465,195.
VEB Funkwerk Kopenick: *See—*
Herbst, Hagen; Kleedehn, Eckhart; and Pietrucha, Herbert, 3,478,462.
VEB Gardinen-u. Dekowerke Zwickau: *See—*
Stabeler, Eberhard; and Dunger, Alfred, 3,469,418.
VEB Geratewerk Karl-Marx-Stadt: *See—*
Oefner, Reiner, 3,422,382.
Veb Goephysik: *See—*
Jager, Wolfgang; and Kossling, Alfred, 3,443,642.
Veb Halbmond-Teppiche: *See—*
Weber, Friedrich; Fuchs, Helmut; and Kummer, Karl-Joachim, 3,443,878.
VEB Jenaer Glaswerk Schott & Gen.: *See—*
Kirchner, Georg, 3,456,289.
VEB Kabelwerk Oberspree (KWO): *See—*
Meisel, Christian; Salewski, Gunter; and Bock, Rudolf, 3,445,585.
VEB Kombinat Fortschritt: *See—*
Noack, Christian, 3,483,680.
Oliva, Klaus; Noack, Christian; and Lange, Gotthard, 3,430,505.
VEB Leuna-Werke 'Walter Ulbricht':*See—*
Ratzsch, Manfred; Grundmann, Horst; Kilian, Rolf; and Reinhardt, Helmut, 3,431,250.
Ratzsch, Manfred; Grundmann, Horst; and Kilian, Rolf, 3,441,628.
Smeykal, Karl; Pallutz, Heinrich; Hahner, Eberhard; Becker, Karl; and Stoss, Werner, 3,453,314.
Veb Lokomotivbau-Elektrotechnische Werke Hans Beimler: *See—*
Schiller, Siegfried; Lenk, Peter; and Forster, Harry, 3,432,335.
VEB Magnesit-Werke Aken: *See—*
Schrader, Richard; Grunwoldt, Wilfried; Hennek, Hubert; Kneschke, Gotz; and Reinhardt, Helmut, 3,464,790.
VEB Mansfeld Kombinat 'W. Pieck':*See—*
Wagenmann, Rolf; and Wehle, Gunther, 3,433,596.
VEB Mansfeld-Kombinat 'W. Pieck':*See—*
Burger, Rudolf; and Scholz, Horst, 3,460,275.
VEB Medizintechnik Willgerodt: *See—*
Willgerodt, Werner, 3,450,134.
Veb Metalleichtbaukombinat-Forschungsinstitut: *See—*
Lange, Siegfried Karl; Naumann, Gunther Erich; Engler, Rolf Hans; and Nicolai, Hans-Joachim Reinhold, 3,484,800.
VEB Nahwerkmaschinenbau Malimo Karl-Marx-Stadt: *See—*
Frenzel, Bertram, 3,440,840.
Offermann, Peter Rudolf; Pilz, Siegfried Walter; and Sonntag, Peter Erich, 3,456,461.
VEB Niles Pressluftwerkzeuge: *See—*
Prillwitz, Hans; Mechalke, Klaus; Kossler, Karl-Heinz; and Seyfarth, Bodo, 3,459,275.
VEB Pentacon Dresden Kamera -und Kinowerke: *See—*
Hilbig, Erich; Ehrentraut, Heinz; Reimann, Hubertus; and Schutze, Siegfried, 3,472,141.
Bohm, Siegfried, 3,472,139.
Bohm, Siegfried, 3,479,946.
Hahn, Erich, 3,421,006.
Hahn, Werner; Planert, Wolfgang; Schulze, Heinz; and Wolf, Heinz, 3,421,421.
Hahn, Werner; and Noack, Rolf, 3,465,661.
Hausmann, Gunter, 3,424,073.
Jurenz, Rolf, 3,464,338.
Langnau, Kurt; Hennig, Walter; Strehle, Horst; and Schulze, Heinz, 3,481,259.
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang, 3,425,330.
Noack, Rolf; and Kromer, Karl, 3,450,017.
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang, 3,456,568.
Noack, Rolf, 3,456,569.
Reimann, Hubertus; and Hesse, Christian, 3,450,015.
Trankner, Werner, 3,464,337.
Trankner, Werner, 3,464,339.
Trankner, Werner; and Jurenz, Rolf, 3,465,660.
Welzel, Herbert; and Bachmann, Heinz, 3,465,657.
Zimmet, Hans, 3,455,224.
Veb Reglerwerk Dresden: *See—*
Topfer, Heinz; and Milke, Eberhard, 3,457,384.
Veb Sachsenring Automobilwerke Zwickau: *See—*
Weigert, Eberhard; and Tausch, Winfried, 3,456,623.
Weissflog, Sieghard; and Muller, Karl-Heinz, 3,440,929.
VEB Schiffswerft Neptun Rostock: *See—*
Weicker, Diethard, 3,455,262.
VEB Tabak- und Industriemaschinen Dresden: *See—*
Lehmann, Curt, 3,485,010.
Wilde, Friedrich; and Herrmann, Johannes, 3,473,537.
VEB Textilmaschinenbau Apolda: *See—*
Kohler, Werner, 3,455,123.
VEB Transportgummi: *See—*
Knapp, Heinrich, 3,467,764.
VEB Vereinigte Feinstrumpfwerke: *See—*
Lindner, Hellmuth Gustav; and Kotzerke, Wilfried Willy, 3,435,636.
VEB Vereinigte NE-Metall-Halbzeugwerke Hettstedt: *See—*
Anders, Walter; Strakosch, Hans; Porth, Horst; and Bethge, Hartmut, 3,469,302.
VEB Verpackungs- und Schokoladenmaschinen Dresden: *See—*
Frost, Herbert; Pietsch, Guenter; and Grosse, Karl, 3,483,668.
VEB Warnowwerft Warnemunde: *See—*
Hoffmann, Gerhard, 3,487,426.
Kahle, Otto; and Bauer, Ralf, 3,429,453.
Veb Webstuhlbau Grossenhain: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert, 3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert, 3,464,453.
Veb-Lokomotivbau-Elektrotechnische Werke Hans Beimler: *See—*
Schiller, Siegfried; Forster, Harry; and Lenk, Peter, 3,440,475.
Vebr, Jan: *See—*
Pech, Vaclav; Vebr, Jan; and Spura, Richard,3,477,100.
Vebra, Joseph; Wojtowicz, John A.; and Urs, Venkataramaraj S., to Olin Mathieson Chemical Corporation. Divinyl acetals by dehydrohalogenation of bis(2- haloethyl) acetals. 3,463,823, 8-26-69, Cl. 260-615.
Vecchio, Luigi. Therapeutic vibratory pad. 3,457,910, 7-29-69, Cl. 128-24.2
Vecchio, Luigi. Exhaust gas scrubber. 3,485,015, 12-23-69, Cl. 55-227.

Vecchio, Martino; Cammarata, Italo; and Lodi, Luciano, to Montecatini Edison S.p.A. Process for the production of fluorochloromethanes. 3,442,962, 5-6-69, Cl. 260-653.7
Vecchio, Martino; Lodi, Luciano; Fattore, Vittorio; and Cammarata, Italo, to Montecatini Edison S.p.A. Process for the preparation of fluorinated organic compounds via fluorination in vapor phase of aliphatic hydrocarbons. 3,476,817, 11-4-69, Cl. 260-653.7
Vecellio, Bernardino, to Pirelli S.p.A. Method of bonding synthetic fiber materials to rubbers. 3,431,161, 3-4-69, Cl. 156-330.
Vecellio, Bernardino, to Pirelli S.p.A. Method for the preparation of organic copolymers of high molecular weight containing double bonds and epoxy groups. 3,431,246, 3-4-69, Cl. 260-80.7
Vecera, Milos: *See—*
Bucil, Frantisek; Hybl, Josef; Kabele, Stanislav; and Vecera, Milos,3,439,488.
Vecsey, Louis R.: *See—*
Hoskins, Robert J.; and Vecsey, Louis R.,3,452,937.
Vedder, Dietrich: *See—*
Haag, Arthur V.; and Vedder, Dietrich,3,422,399.
Vedder, Dietrih: *See—*
Embree, Milton L.; Haag, Arthur V.; and Vedder, Dietrih,3,421,030.
Vedder, Helmut, to Chicago Bridge & Iron Company. Purging-diluting method for removing gases. 3,439,870, 4-22-69, Cl. 230-69.
Vedder, Willem; and Schultz, John, Jr., to General Electric Company. Magnesia insulated heating elements and methods of production. 3,477,058, 11-4-69, Cl. 338-238.
Vedin, Bengt-Arne: *See—*
Edqvist, Olle; Svedberg, Per; and Vedin, Bengt-Arne,3,437,886.
Vedova, Ralph: *See—*
Leibach, Heinrich; and Vedova, Ralph,3,434,289.
Vedrilla, Stefan, to Chemiebau Dr. A. Zieren Gmbh & Co., K.G. Method for producing anhydrides by catalytic oxidation of aromatic hydrocarbons Collapsible dome. 3,466,300, 9-9-69, Cl. 52-63.
Vedvik, Andrew H.; and Middleton, Frederic H., to Mayer, Oscar, & Co., Inc. Machine for placement, cutting, fastening transparent plastic windows in cover rings. 3,471,918, 10-14-69, Cl. 29-208.
Vee, Richard F.: *See—*
Barry, Philip H.; and Vee, Richard F.,3,468,491.
Veeder Industries Inc.: *See—*
Barrett, James P., 3,461,277.
Bickford, John H.; and Blinow, Igor, 3,459,330.
Bickford, John H.; Haberstroh, Albert; and Donovan, Lawrence J., 3,469,741.
Bickford, John H.; and Blinow, Igor, 3,484,021.
Bies, Sylvester W.; and Ames, Allan R., 3,452,927.
Bly, Donald A., 3,478,856.
Devanney, Raymond H.; and Bies, Sylvester W., 3,423,750.
Dilger, Lawrence; and Ashford, Ernest Stanley, 3,478,854.
Juhas, Michael S., 3,456,877.
Richards, Joseph A., 3,445,636.
Smilgys, Bruno S., 3,446,432.
Swords, Frank J., 3,427,441.
Veenendaal, Hendrikes Johannes: *See—*
Van Der Sanden, Hendrikus Cornelis Nicolaas; Veenendaal, Hendrikes Johannes; and Boersma, Theo Tjalke,3,471,294.
Vega Manufacturing Corporation: *See—*
Gilchrist, Robert F., 3,471,176.
Vegeby, Anders, to Aktiebolaget Svenska Flaktfabriken. Method for recovering heat out of an air- water vapour mixture from a dissolver at a sode house unit. 3,455,363, 7-15-69, Cl. 159-47.
Vegeby, Anders, to Aktiebolaget Svenska Flaktfabriken. Spray concentrating weak black liquor by contact with hot flue gases. 3,456,709, 7-22-69, Cl. 159-4.
Vegeby, Anders, to Aktiebolaget Svenska Flaktfabriken. Gas ejector with built-in sound attenuating means. 3,468,397, 9-23-69, Cl. 181-36.
Vegella, John S.: *See—*
Britton, Richard K.; Christopher, John P.; Vegella, John S.; and Neuss, William H.,3,484,338.
Vego Chemical Corporation: *See—*
Campbell, Arthur W., 3,441,510.
Vegter, Geert C.; and Sinnema, Feije H., to Shell Oil Company. Catalytic esterification of epoxy resins with organic stanni compounds. 3,471,421, 10-7-69, Cl. 260-18.
Veigel, Neil D.: *See—*
Lazaridis, Lazaros J.; and Veigel, Neil D.,3,485,296.
Veilex, Robert: *See—*
Bailleul-Langlais, Josette; Neuville, Jean; and Veilex, Robert,3,446,422.
Veilex, Robert, to U.S. Philips Corporation, mesne. Semiconductor device for producing and amplifying electrical signals of very high frequencies. 3,458,831, 7-29-69, Cl. 331-107.
Veilex, Robert; and Parquet, Pierre, to North American Philips Company, Inc. Pump for liquefield gases. 3,431,744, 3-11-69, Cl. 62-55.
Veillette, Leo J. Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads. 3,483,535, 12-9-69, Cl. 340-174.
Veisky, Stanislav Petrovich: *See—*
Maranchak, Vasily Makarovich; Veisky, Stanislav Petrovich; and Krivenkov, Vladimirovich,3,444,433.
Veith, Werner: *See—*
Meyerer, Paul; and Veith, Werner,3,475,650.
Veith, Werner, to Siemens Aktiengesellschaft. Radio observation apparatus utilizing a return beam. 3,473,162, 10-14-69, Cl. 343-17.
Seunik, Horst; and Veith, Werner,3,462,636.
Veitscher Magnesitwerke Actien-Gesellschaft: *See—*
Hodl, Friedrich, 3,471,136.
Velan Engineering Ltd.: *See—*
Breton, Guy, 3,433,412.
Velasques Nederland N.V.: *See—*
Sandgvist, Bo Anders, 3,456,653.
Velay, Claude: *See—*
Marcel, Jean Pierre; and Velay, Claude,3,465,110.
Velazco, Emil: *See—*
Rivera, Nazario J., 3,467,823.
Veldhuis, Benjamin: *See—*
Farah, Basil S.; Gilbert, Everett E.; and Veldhuis, Benjamin,3,462,482.
Gilbert, Everett E.; and Veldhuis, Benjamin,3,445,514.
Gilbert, Everett E.; and Veldhuis, Benjamin,3,445,524.
Michener, Aubrey Westlake, Jr.; and Veldhuis, Benjamin,3,462,474.
Veleron Corporation, The: *See—*
Wedlake, Cyril J., 3,474,546.
Velisek, Vaclav: *See—*
Plechac, Bohuslav; Velisek, Vaclav; Machovsky, Vaclav; Kadlcik, Bozetech; and Molcan, Stefan,3,429,150.
Vella, Carl, to Hoe, R., & Co., Inc. Signature reversing apparatus. 3,429,569, 2-25-69, Cl. 271-3.
Vellekoop, Peter Barrie. Piston for aerosol dispensers. 3,433,134, 3-18-69, Cl. 92-243.
Veller, Vladimir Nikolaevich; and Kirakosiants, Gertruda Alexandrovna. Automatic hydraulic governing system for steam turbines having several adjustable parameters. 3,466,977, 9-16-69, Cl. 91-458.
Velling, Gunter, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Process for the methylation of phenol. 3,463,824, 8-26-69, Cl. 260-621.
Vellins, Cyril Eric: *See—*
Harvey, Edwin Dennis; and Vellins, Cyril Eric,3,446,817.
Veloz, Louis P., to Aquafine Corporation. Ultra-violet water purifier control. 3,471,693, 10-7-69, Cl. 250-43.5
Velsicol Chemical Corporation: *See—*
Berliner, Jordan P.; and Richter, Sidney B., 3,446,613.
Berliner, Jordan P.; and Richter, Sidney B., 3,446,832.
Berliner, Jordan P.; and Richter, Sidney B., 3,474,124.
Gourse, Jerome A., 3,454,602.
Hanna, Delbert L., 3,461,174.
Ingwalson, Raymond W.; Smith, William F.; and Wright, James O., 3,478,092.
Krenzer, John, 3,437,664.
Mayer, David P.; and Richter, Sidney B., 3,431,099.
Ordas, Eugene P., 3,421,882.
Polen, Percy B., 3,442,230.
Richter, Sidney; and Levin, Alfred A., 3,480,657.
Richter, Sidney B.; and Mayer, David P., 3,422,199.
Richter, Sidney B., 3,449,109.
Richter, Sidney B., 3,450,520.
Richter, Sidney B., 3,459,836.
Richter, Sidney B.; and Mayer, David P., 3,470,237.
Richter, Sidney B.; and Berliner, Jordan P., 3,485,865.
Rudnitzki, Alexis J.; and Templer, David I., 3,478,086.
Scardiglia, Frank; and Hokama, Takeo, 3,484,422.
Scardiglia, Frank; and Hokama, Takeo, 3,485,807.
Wilks, Louis P.; and Richter, Sidney B., 3,435,081.
Zick, Warren H., 3,473,913.
Veltman, Herbert; O'Kane, Patrick T.; Gulyas, James W.; and Middagh, William R., to Gordon, Sherritt, Mines Limited. Hydrometallurgical process for treating sulphides containing nonferrous and ferrous metal values. 3,477,927, 11-11-69, Cl. 204-119.
Veltman, Preston L.: *See—*
Dunseth, Maria G.; Legal, Casimer C., Jr.; and Veltman, Preston L.,3,437,379.
Veltman, Preston L. Out-haul/down-haul sail control device. 3,464,378, 9-2-69, Cl. 114-102.
Veltman, Preston L.; and Imperiale, Peter G., to Grace, W. R., & Co. Phosphorus production. 3,481,706, 12-2-69, Cl. 23-223.
Veltri, Richard D.: *See—*
Cox, John E.; and Veltri, Richard D.,3,483,072.
Veltri, Richard D.; and Cox, John E., to United Aircraft Corporation. Process for making composite fibers. 3,481,390, 12-2-69, Cl. 164-86.
Vemaline Products Company, Inc.: *See—*
Venema, William, 3,437,132.
Venable, Charles R., Jr.; Wood, Zollie E.; and Cawi, Vernon A., to Phillips Petroleum Company. Refractory lined apparatus having a

removable sealed closure assembly. 3,484,212, 12-16-69, Cl. 23-284.
Venable, Lawrence B., to General Electric Company. Shaft journals. 3,480,342, 11-25-69, Cl. 308-187.
Venable, Phillip G., to Case, J. I., Company. Wire container. 3,424,339, 1-28-69, Cl. 220-55.
Venable, Phillip G., to Case, J. I., Company. Universal coupling. 3,462,973, 8-26-69, Cl. 64-17.
Venaleck, John T., to Product Design & Manufacturing Corporation. Self-ejecting plug. 3,475,715, 10-28-69, Cl. 339-45.
Venango Engineering Co.: *See—*
Sherrill, Van D., 3,423,083.
Vend-A-Key Corporation: *See—*
Weiner, Nathan; and Marcus, Irving, 3,442,174.
Vendel, Roger J., to Egema S.A.Reserpine 3,5,3'-triiodothyroacetate. 3,484,442, 12-16-69, Cl. 260-286.
Vending Components, Inc.: *See—*
Parisi, Michael J., 3,467,132.
Vendit, Inc.: *See—*
Aufderheide, Don R., 3,480,785.
Venditti, Arthur P.: *See—*
Collura, Peter C.; Desmond, John D.; Venditti, Arthur P.; and Lesinski, Theodore S.,3,438,563.
Vendo Company, The: *See—*
Craven, Herman R.; and Baxendale, John W., 3,420,404.
Offutt, Elmer Bradley; and Bieri, Leonard, Jr., 3,472,424.
Patterson, Robert E.; and Ptacek, James F., 3,428,157.
Patterson, Robert E.; and Ptacek, James F., 3,472,351.
Pennell, Kit E.; and Soraci, Oreste, 3,483,958.
Schumacher, Warner A. J., 3,454,193.
Welty, Frank, 3,468,137.
Venema, Jack H., to Ford Motor Company. Dual master cylinder. 3,461,671, 8-19-69, Cl. 60-54.6
Venema, William, to Vemaline Products Company, Inc. Water cooled heat sink. 3,437,132, 4-8-69, Cl. 165-80.
Venesia, Attilio. Self-centering grinding system particularly suitable for the finishing and repair of large crankshafts. 3,456,391, 7-22-69, Cl. 51-55.
Venesky, David L.; and Moniz, William B., to United States of America, Navy. Method for determining organic loading on charcoal. 3,446,060, 5-27-69, Cl. 73-76.
Venetianaire Corporation of America: *See—*
Barnett, Stanley D., 3,469,619.
Venetos, Matthew A.; and O'Sullivan, Denis J., Jr., to United States of America, Army. Velocity transducer. 3,483,759, 12-16-69, Cl. 73-517.
Veneziano, Philip J., to International Business Machines Corporation. Automatic tester for evaluating computer memory systems. 3,460,109, 8-5-69, Cl. 340-174.
Venghiattis, Alexis A., to Perkin-Elmer Corporation, The. Method for vaporizing elements by igniting a mixture including the element. 3,432,655, 3-11-69, Cl. 250-43.5
Venghiattis, Alexis A., to Dresser Industries, Inc. Well perforating apparatus and method. 3,461,964, 8-19-69, Cl. 166-297.
Venghiattis, Alexis A., to Perkin-Elmer Corporation, The. Heated chamber burners. 3,486,836, 12-30-69, Cl. 431-126.
Venier, Dominic A.: *See—*
Lass, James L.; and Venier, Dominic A.,3,431,170.
Venkatesan, Peruvemba Swaminatha; and Yarish, Melvin, to Leesona Corporation. Method of preparing alloy blacks. 3,427,153, 2-11-69, Cl. 75-108.
Venkatesan, Peruvemba Swaminatha: *See—*
Boyhan, Matthew B.; and Venkatesan, Peruvemba Swaminatha,3,443,933.
Venne, Claude; Forest, Robert; and Perreault, Serge. Variable speed drive assembly. 3,478,611, 11-18-69, Cl. 74-230.17
Venning, Selby G.: *See—*
Cammer, Bobby E.; and Venning, Selby G.,3,470,467.
Venning, Selby G., to General Electric Company. High and low limit temperature control system. 3,431,399, 3-4-69, Cl. 219-497.
Venot-Pic: *See—*
Duhem, Victor, 3,447,792.
Duhem, Victor, 3,452,969.
Quinchon, Francis J., 3,485,484.
Ventre, Pierre: *See—*
Prost-Dame, Claude; Ventre, Pierre; and Bouthors, Pierre,3,449,864.
Ventron Corporation: *See—*
Wade, Robert C., 3,453,213.
Wade, Robert C., 3,455,976.
Wade, Robert C., 3,457,289.
Wade, Robert C., 3,462,469.
Ventron Instruments Corp.: *See—*
Pitlor, Joel R., 3,427,815.
Ventura, John J.: *See—*
Remes, Nathaniel L.; and Ventura, John J.,3,432,534.
Ventura Tool Company: *See—*
Ahlstone, Arthur G., 3,468,558.
Ahlstone, Arthur G., 3,468,559.
Hanes, James W. E., 3,433,504.
Hanes, James W. E., 3,455,578.
Venturi, Emilio. Collapsible plastic container. 3,424,365, 1-28-69, Cl. 229-30.
Venus Esterbrook Corporation: *See—*
Erdman, Charles A., 3,434,159.
Venus, Frank, Jr., to Risdon Manufacturing Company, The. Self-venting dispensing and recharging aerosol valve assembly. 3,432,080, 3-11-69, Cl. 222-402.16
Venus, Frank, Jr., to Risdon Manufacturing Company, The. Self-sealing spray-actuator button. 3,437,270, 4-8-69, Cl. 239-118.
Venus, Frank, Jr., to Risdon Manufacturing Company, The. Aerosol dispensing valve for plural sources. 3,439,840, 4-22-69, Cl. 222-136.
Venus, Hellen E. Cupboard hook. 3,430,301, 3-4-69, Cl. 24-73.
Vepa AG: *See—*
Fleissner, Gerold; and Fleissner, Heinz, 3,425,789.
Fleissner, Hans, 3,430,352.
Fleissner, Hans; and Fleissner, Heinz, 3,440,736.
Fleissner, Hans, 3,450,486.
Fleissner, Heinz; and Fleissner, Gerold, 3,430,355.
Fleissner, Heinz, 3,440,735.
Fleissner, Heinz, 3,456,431.
Fleissner, Heinz, 3,460,266.
Fleissner, Heinz, 3,467,975.
Fleissner, Heinz, 3,469,423.
Fleissner, Heinz, 3,469,932.
Fleissner, Heinz, 3,473,236.
Fleissner, Heinz, 3,476,367.
VePed Traffic Controls, Inc.: *See—*
Atchey, George L., 3,472,337.
Ver Nooy, Burton, to Williamson, T. D., Inc. Split T. 3,433,507, 3-18-69, Cl. 285-197.
Ver Nooy, Burton, to Williamson, T. D., Inc. Pipeline plugger. 3,442,295, 5-6-69, Cl. 138-94.
Ver Steeg, Melvin A.: *See—*
Vollink, Willard L.; and Ver Steeg, Melvin A.,3,484,250.
Verbeek, Henri P. J.: *See—*
Sieders, Christiaan H.; and Verbeek, Henri P. J.,3,434,617.
Verbeek, Wolfgang: *See—*
Sundermeyer, Wolfgang; and Verbeek, Wolfgang,3,480,654.
Verbraak, Cornelis Antonius: *See—*
de Lange, Robert Gerardus; Verbraak, Cornelis Antonius; and Zijderveld, Jacobus Antonius,3,450,372.
Verbrugge, Henny: *See—*
Semeyns de Vries Van Doesburgh, Johan T.; and Verbrugge, Henny,3,448,103.
Vercauteren, Marcel, to Hirtenberger Patronen-Zundhutchen- und Metallwarenfabrik Aktiengesellschaft. Explosive for blasting agent containing microcrystalline lipophilic ammonium nitrate. 3,449,180, 6-10-69, Cl. 149-21.
Vercellone, Peter T.: *See—*
Feder, Ernest; Kransnitski, John; and Vercellone, Peter T.,3,454,242.
Gehringer, Joseph H.; and Vercellone, Peter T.,3,421,718.
Vercellotti, Leonard C.; and Brastins, Auseklis, to Westinghouse Electric Corporation. Computer interrupt circuit. 3,440,628, 4-22-69, Cl. 340-174.
Vercellotti, Leonard C.; and Johnson, Richard A., to Westinghouse Electric Corporation. Computer interrupt circuit. 3,440,629, 4-22-69, Cl. 340-174.
Vercellotti, Leonard C.; and Madden, Richard J., to Westinghouse Electric Corporation. Interface system for digital computers and serially operated input and output devices. 3,440,613, 4-22-69, Cl. 340-172.5
Vercoulen, Johannes Cornelis Augustinus, to Chemische Fabriek L. van der Grinten N.V. Photoprinting apparatus. 3,432,236, 3-11-69, Cl. 355-109.
Vercouteren, James P. Milk can scrubber. 3,471,887, 10-14-69, Cl. 15-72.
Verde, Charles D., to General Time Corporation. Quiet clockwork escapement. 3,425,212, 2-4-69, Cl. 58-116.
Verderber, Joseph A.: *See—*
Carper, Robert L.; Lein, Juergen G. A.; Miller, Donald J.; Schmidlin, Raymond J.; and Verderber, Joseph A.,3,426,678.
Verdi, Sam C., to Dura Corporation. Vehicle wheel suspension. 3,448,975, 6-10-69, Cl. 267-31.
Verdi, Vincent F., to Merck & Co., Inc. Process for the preparation of nitroimidazole carbamates. 3,450,710, 6-17-69, Cl. 260-309.
Verdi, Vincent F.: *See—*
Kollonitsch, Janos; and Verdi, Vincent F.,3,471,512.
Verdibello, Ambrose A.: *See—*
Braun, Richard E.; Tiao, Hui-li; and Verdibello, Ambrose A.,3,486,220.
Parker, Gerald R.; and Verdibello, Ambrose A.,3,478,255.
Verdickt, Jacques Joseph, to Societe Anonyme dite: Vallourec. Tube rolling mill for producing thin walled tubes. 3,465,563, 9-9-69, Cl. 72-76.
Verdier, Andre Louis. Adjustment of the rolls of grinders and other machines which include rolls. 3,445,070, 5-20-69, Cl. 241-37.

Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tires. 3,437,120, 4-8-69, Cl. 152a209.
Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tire casings. 3,450,182, 6-17-69, Cl. 152-352.
Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tires. 3,457,981, 7-29-69, Cl. 152-209.
Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Rim for vehicle wheels. 3,459,252, 8-5-69, Cl. 152-410.
Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tire. 3,464,477, 9-2-69, Cl. 152-353.
Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tires. 3,480,065, 11-25-69, Cl. 152-353.
Verdin, Jean-Marie Louis Augustin, to Centre de Recherches de Pont-a-Mousson. Method of heat shrinking thermoplastic coverings to tubular metal bodies. 3,470,046, 9-30-69, Cl. 156-86.
Verdol Joseph A.; and Ryan, Patrick W., to Sinclair Research Inc. Hydrocarbon rubber and polyurethane prepared from a polyisocyanate and an hydroxy terminated diene polymer. 3,427,366, 2-11-69, Cl. 260-859.
Verdol, Joseph A.; and Carrow, Donald J., to Sinclair Research, Inc. Reaction product of monoamine polyamine and polymer of a monovinyl monomer and maleic anhydride. 3,432,479, 3-11-69, Cl. 260-78.5
Verdol, Joseph A.; and Carrow, Donald J., to Sinclair Research, Inc. Ashless lubricating oil detergents. 3,476,686, 11-4-69, Cl. 252-51.5
Verdol, Joseph A.; and Carrow, Donald J., to Sinclair Research, Inc. Resinous compositions of epoxy resin, high melting acid or anhydride of at least three carboxylic groups and aromatic hydrocarbon-aldehyde resins. 3,487,125, 12-30-69, Cl. 260-837.
Verdol, Joseph A.; and Gonzalez, Hector J., to Sinclair Research, Inc. Styrene-maleic anhydride-amine polymers as emulsifiers in polymerization of vinyl monomers. 3,444,151, 5-13-69, Cl. 260-86.7
Verdol, Joseph A.; and Gower, Bob G., to Sinclair Research, Inc. Thermosetting resins containing allylic esters of styrene-maleic anhydride copolymers. 3,429,946, 2-25-69, Cl. 260-836.
Verdol, Joseph A.; and Thienot, Marc O., to Sinclair Research, Inc. Catalytic ketone solution process for preparing high bulk density, high molecular weight styrene-maleic anhydride polymers. 3,423,355, 1-21-69, Cl. 260-32.8
Verdol, Joseph A.; and Thienot, Marc O., to Sinclair Research, Inc. Catalytic precipitation process for preparing high bulk density, high molecular weight styrene-maleic anhydride polymers. 3,423,373, 1-21-69, Cl. 260-78.5
Verdol, Joseph A.: *See—*
Patinkin, Seymour H.; Verdol, Joseph A.; and Carrow, Donald J.,3,450,513.
Verdone, Michael A., to Hewlett-Packard Company. Continuous loop tape storage and supply unit. 3,464,611, 9-2-69, Cl. 226-119.
Vereinigte Aluminium-Werke Aktiengesellschaft: *See—*
Moritz, Guenther, 3,451,465.
Moritz, Guenther, 3,463,220.
Moritz, Gunther, 3,439,730.
Wrigge, Friedrich Wilhelm; and Weckesser, Ernst, 3,470,083.
Vereinigte Baubeschlagfabriken Gretsch & Co. GmbH: *See—*
Voester, Reinhold; and Schmid, Wolfgang, 3,462,791.
Voster, Reinhold; and Hasslacher, Herbert, 3,451,687.
Voster, Reinhold; and Dietz, Carl, 3,483,585.
Vereinigte Deutsche Metallwerke AG: *See—*
Perlick, Albert; and Gareis, Alfred, 3,432,903.
Wenderott, Berthold, 3,434,891.
Vereinigte Flugtechnische Werke G.m.b.H.: *See—*
Eggers, Gerhard; and Seibold, Wilhelm, 3,430,858.
Hollendieck, Hans; Meier, Hans Justus; and Rutzen, Erich Adolf Wilhelm, 3,462,099.
Myczinski, Alfred, 3,486,721.
Sobotta, Werner, 3,443,777.
Vereinigte Glanzstoff-Fabriken AG.: *See—*
Arnold, Walter; and Ostertag, Karl, 3,423,497.
Kroes, Gerardus Henricus; Siggel, Erhard; Schopf, Albert; and Meyer, Gerhard, 3,429,849.
Lenz, Jurgen; and Meyer, Ernst, 3,437,641.
Meyer, Ernst; and Lenz, Jurgen, 3,475,111.
Schopf, Albert; Siggel, Erhard; and Meyer, Gerhard, 3,420,888.
Siggel, Erhard; and Rein, Walter, 3,429,854.
Siggel, Erhard; and Rein, Walter, 3,441,468.
Siggel, Erhard; and Rein, Walter, 3,470,114.
Taul, Horst; and Kogler, Hubert, 3,458,583.
Vereinigte Glaswerke Zweigniederlassung der Compagnie de Saint-Gobain: *See—*
Schafer, Wolfgang; and Blass, Reinhold, 3,425,894.
Vereinigte Kesselwerke A.G.: *See—*
Engler, Otto, 3,454,231.
Kremer, Heinrich, 3,469,544.
Vereinigte Kesselwerke Aktiengesellschaft: *See—*
Kremer, Heinrich, 3,456,605.
Vereinigte Metallwerke Ranshofen-Berndorf: *See—*
Peter, Erwin, 3,456,973.
Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft: *See—*
Mittermueller, Josef, 3,430,030.
Peter, Erwin, 3,468,573.
Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft: *See—*
Lambrecht, Josef; and Stadlmann, Georg, 3,427,012.
Lambrecht, Josef; and Schubert, Hermann, 3,430,941.
Puhringer, Othmar; and Patuzzi, Alexander, 3,460,820.
Puhringer, Othmar; and Gruber, Heinz, 3,477,706.
Rinesch, Rudolf, 3,452,971.
Rinesch, Rudolf; and Krupp, Friedrich, 3,472,500.
Rinesch, Rudolf; and Strohmeier, Gerolf, 3,473,968.
Schoffmann, Rudolf, 3,477,268.
Seyfried, Ernst, 3,448,694.
Steinmair, Karl, 3,458,180.
Wodl, Johann; and Berdan, Frohwald, 3,482,710.
Vereinigung Volkseigener Betriebe Automobilbau: *See—*
Furt, Ludwig; Hahne, Helmut; and Spitzner, Rudolf, 3,456,321.
Verenigde Kunstmestfabrieken Mekog-Albatros N.V.: *See—*
De Hek, Jilles, 3,440,170.
Preusser, Anton A. H.; and Sipkes, Hendrik, 3,424,553.
Verenski, Lawrence E.: *See—*
Kalina, Robert F.; and Verenski, Lawrence E.,3,434,024.
Veres, Frank: *See—*
Austin, Lewis M.; Denman, Robert R.; O'Dennell, Thomas P.; and Veres, Frank,3,484,328.
Veres, Frank, to Owens-Illinois, Inc. Crystalline luminescent ceramic materials. 3,461,078, 8-12-69, Cl. 252-301.6
Veres, Frank, to Owens-Illinois, Inc. Method of forming a glass body of devitrified glass and devitrifying the same. 3,462,252, 8-19-69, Cl. 65-18.
Veres, Raymond M. Stringed musical instrument. 3,481,238, 12-2-69, Cl. 84-267.
Vereschagin, Alex A.; and Vereschagin, John J. Automotive bin carrying machine. 3,432,053, 3-11-69, Cl. 214-505.
Vereschagin, John J.: *See—*
Vereschagin, Alex A.; and Vereschagin, John J.,3,432,053.
Vereschagin, Leonid Fedorovich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; and Surkov, Ivan Efimovich. High-pressure plunger-type fluid compressors. 3,446,427, 5-27-69, Cl. 230-172.
Verest, Franciscus Johannes: *See—*
van Stratum, Antonius Johannes Alberta; Zalm, Pieter; Verest, Franciscus Johannes; and Henkes, Hans,3,458,749.
Verheyden, Julien P.; and Moffatt, John G., to Syntex Corporation. Unsaturated nucleosides and process for their preparation. 3,472,837, 10-14-69, Cl. 260-211.5
Verhoef, Leendert: *See—*
Vermeulen, Wilhelmus Georgius; and Verhoef, Leendert,3,433,043.
Verhoeff, Jacobus, to Anker-Werke Aktiengesellschaft. Data checking system. 3,448,254, 6-3-69, Cl. 235-153.
Verhoeven, Adrianus Franciscus Cornelis: *See—*
Korst, Peter Herman Maria; Verhoeven, Adrianus Franciscus Cornelis; and Westerhof, Thomas Jan,3,487,257.
Verhoeven, Albert F., to Werner Machinery Company. Method and apparatus for forming and arranging wafers or cookies. 3,448,696, 6-10-69, Cl. 107-4.
Vericon, Inc.: *See—*
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M., 3,474,435.
Verini, Maria Antonietta: *See—*
Palamidessi, Giorgio; Verini, Maria Antonietta; and Fioretti, Armanda,3,472,849.
Verjux, Jean Roger, to Usines Decoufle, Societe Anonyme. Cutting guide notably for cigarette machines. 3,440,912, 4-29-69, Cl. 83-310.
Verkaik, Arie; and Bouwer, Leonardus, to Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Process for the deep drawing of mainly cylindrical hollow objects from blanks and blank holder and drawing ring for carrying out the said process. 3,483,723, 12-16-69, Cl. 72-350.
Verkaik, John. Fluid ejection apparatus. 3,482,544, 12-9-69, Cl. 118-2.
Verkinderen, Paul August: *See—*
De Geest, Wilfried Florent; and Verkinderen, Paul August,3,462,286.
Verlaeten, Jean; and Nisol, Francis, to Solvay & Cie. Process for the manufacture of chlorine by oxidation of hydrogen chloride or nitrosyl chloride. 3,440,011, 4-22-69, Cl. 23-219.
Verleur, Hans W.: *See—*
Barker, Alfred S., Jr.; and Verleur, Hans W.,3,484,722.
Boyle, Willard S.; and Verleur, Hans W.,3,473,602.

Verlijsdonk, Johannes Godefridus: *See—*
Wanmaker, Willem Lambertus; and Verlijsdonk, Johannes Godefridus,3,423,325.
Vermeer, Willem, to Maatschappij voor Electrische Bedrijfsautomatisering Electrofact N.V. Pressurized electrode. 3,445,366, 5-20-69, Cl. 204-195.
Vermeulen, Gerardus Antonius Wilhelmus; Broos, Jan; and Gravesteijn, Jacobus Cornelis, to U.S. Philips Corporation, mesne. Cathode-ray tube with silicate layer between window and phosphor layer. 3,483,416, 12-9-69, Cl. 313-92.
Vermeulen, Jacob: *See—*
Breukink, Carel J.; and Vermeulen, Jacob,3,440,309.
Vermeulen, Wilhelmus Georgius; and Verhoef, Leendert, to N.V. Nederlandsche Kabelfabrieben. Apparatus for manufacturing a tubular element from a long metal strip. 3,433,043, 3-18-69, Cl. 72-176.
Vermiculite Manufacturing Company: *See—*
Donner, Fred Albert, 3,466,354.
Vermijs, Winfried J. W.; and Von den Hoff, Johan P. H., to Stamicarbon N.V.Process for the preparation of α-amino-τ- lactams. 3,437,656, 4-8-69, Cl. 260-239.3
Vernay Laboratories, Inc.: *See—*
Winter, James S., 3,420,105.
Vernco Corporation of Tennessee: *See—*
Korinek, Gordon G., 3,424,506.
Verneau, Marcel, to Compagnie Generale d'Entreprises Electriques. Terminal block mounting. 3,430,190, 2-25-69, Cl. 339-198.
Verner, Miroslav: *See—*
Barta, Jiri; Fechtner, Jan; Hanzlicek, Jiri; Verner, Miroslav; and Vesely, Dobromil,3,464,919.
Vernitron Corporation: *See—*
Davis, Sidney, 3,437,956.
Davis, Sidney, 3,474,312.
Diamond, Albert, 3,444,404.
Silverman, Alvin J.; and Diamond, Albert, 3,470,509.
Silverman, Alvin J.; and Steinberg, Stanley, 3,478,288.
Silverman, Alvin J.; and Diamond, Albert, 3,479,626.
Vernon, James C., to Combustion Engineering Inc. Rotary combustion engine. 3,446,191, 5-27-69, Cl. 123-16.
Vernon Tool Co., Ltd.: *See—*
Blackburn, Marvin J., 3,430,938.
Corwin, Harry L., 3,428,338.
Vero Electronics Limited: *See—*
Hedger, Denyer Edward; and Ayling, Anthony John, 3,458,767.
Veron, Didier. Plasma gun utilizing successive arcs for generating and accelerating the plasma. 3,441,798, 4-29-69, Cl. 315-111.
Veronica, Giacinto, to Montecatini Edison S.p.A. Leaching potassium salts from mixtures in the presence of soluble ferric, chromic and aluminum salts. 3,441,386, 4-29-69, Cl. 23-297.
Veronica, Giacinto; Sironi, Giuseppe; and Colombini, Ariano, to Montecatini Edison S.p.A. Process for removing arsenic from arsenic-containing iron minerals. 3,479,177, 11-18-69, Cl. 75-7.
Verplanke, Mattheus Willem. Machine for lifting beets or like tuberous plants. 3,483,928, 12-16-69, Cl. 171-99.
Verrando, Marcel G., Jr.: *See—*
Seibert, Chesterfield Franklin; and Verrando, Marcel G., Jr.,3,448,561.
Verrando, Marcel G.; and Kelchner, Jay R., to Pall Corporation. Swing mounted thermocouple assembly. 3,462,315, 8-19-69, Cl. 136-230.
Verrerie Cristallerie d'Arques J.G., Durand & Cie Societe en Commandite Par Actions:*See—*
Durand, Jacques Georges, 3,438,481.
Verrerie Souchon-Neuvesel, Societe Anonyme: *See—*
Corman, Guy Albert, 3,421,078.
Verreries Pochet et du Courval: *See—*
le Clerc de Bussy, Jacques Marie Yves, 3,429,972.
Verrinder, Ernest A., to FMC Corporation. Article handling apparatus. 3,420,385, 1-7-69, Cl. 214-6.
Verrinder, Ernest A., to FMC Corporation. Stack loading device. 3,471,038, 10-7-69, Cl. 214-6.
Versatek Industries, Inc.: *See—*
Smith, Gerald D., 3,447,034.
Versatube Corporation: *See—*
Smola, Carl W., 3,457,749.
Verschaeve, Rene: *See—*
Wollrab, Friedrich; and Verschaeve, Rene,3,454,511.
Verschure & Co's Scheepswerf en Machinefabriek N.V.:*See—*
Donkers, Jacobus M., 3,429,127.
Verschuur, Eke, to Shell Oil Company. Process and apparatus for separating a mixture consisting of a viscous liquid being immiscible with water as one component and water as the other component. 3,485,367, 12-23-69, Cl. 210-83.
Versh, Abraham, to American Artists Group, Inc. Package for sheet material articles. 3,483,967, 12-16-69, Cl. 206-63.
Vershure, Roy W., Jr., to Garrett Corporation, The. Floating nozzle and shroud construction for gas turbine. 3,460,806, 8-12-69, Cl. 253-39.
Versitron, Inc.: *See—*
Case, Alfred L., 3,462,606.
Versluis, Johannes Willem: *See—*
Kaashoek, Johannes; Versluis, Johannes Willem; and Barten, Piet Gerard Joseph,3,440,483.
Versnel, John, to Columbian Carbon Company. Thermoplastic polyols containing polyester-ether blocks. 3,455,886, 7-15-69, Cl. 260-78.4
Verson Allsteel Press Company: *See—*
Bautz, Frederick H.; and McElroy, Howard J., 3,432,042.
Bautz, Frederick H., 3,456,814.
McElroy, Howard J., 3,430,779.
Verstraete, Marcel, to Trefileries Leon Bekaert, PVBA. Machine for winding up chain link fencing. 3,450,360, 6-17-69, Cl. 242-55.
Verstraete, Marcel, to Trefileries Leon Bekaert, PVBA. Roll of compacted mesh chain link fencing. 3,473,652, 10-21-69, Cl. 206-59.
Vertes, Michael A.; and Oswin, Harry G., to Leesona Corporation. Method and apparatus for detecting gas. 3,470,071, 9-30-69, Cl. 204-1.
Vertesi, Tibor Miklos; and Philipps, Bruce Allan, to Gamma Engineering Limited. Spray control mechanism for continuous casting machines. 3,480,211, 11-25-69, Cl. 239-450.
Vertin, Thomas D. Method for making master models. 3,472,122, 10-14-69, Cl. 90-13.
Vertnik, Leonard R.: *See—*
Peerman, Dwight E.; and Vertnik, Leonard R.,3,483,237.
Vertnik, Leonard R., to General Mills, Inc. Pressure sensitive adhesive. 3,462,284, 8-19-69, Cl. 106-219.
Vertnik, Leonard R.; and Wittcoff, Harold, to General Mills, Inc. Polymers prepared from urea or thiourea and diamines derived from dimeric fat acids of 32 to 44 carbon atoms. 3,475,406, 10-28-69, Cl. 260-18.
Vertson, John A.: *See—*
Shaffer, Donald U.; and Vertson, John A.,3,434,729.
Vervaart, Adrianus P.; and Ansems, Alfonsus Johannes Petrus, to U.S. Philips Corporation, mesne. Method of manufacturing quartz glass hollow articles. 3,486,870, 12-30-69, Cl. 65-32.
Vervier, Ernest Henri, to Fabrique Nationale d'Armes de Guerre, Societe Anonyme. Automatic firearm with burst control means. 3,440,925, 4-29-69, Cl. 89-129.
Verwaltungsgesellschaft Moeller und Neumann Offene Handelsgesellschaft: *See—*
Neumann, Karl Josef, 3,427,839.
Neumann, Karl Josef, 3,461,705.
Veryser, Harry C.: *See—*
Icke, William M.; and Veryser, Harry C.,3,477,678.
Verzier, Le Verne: *See—*
Bellinger, Kenneth P.; and Verzier, Le Verne,3,479,293.
Verzilli, Elia. Combination switch. 3,470,337, 9-30-69, Cl. 200-43.
Vesely Company: *See—*
Arnold, Delevan J.; and Whitney, Thomas H., 3,468,580.
Vesely, Dobromil: *See—*
Barta, Jiri; Fechtner, Jan; Hanzlicek, Jiri; Verner, Miroslav; and Vesely, Dobromil,3,464,919.
Vesely, Jerome A.; and Hervert, George L., to Universal Oil Products Company. Hydroxylation of aromatic compounds. 3,453,332, 7-1-69, Cl. 260-613.
Vesely, Jerome A.; and Schmerling, Louis, to Universal Oil Products Company. Substitution of aromatic compounds. 3,481,989, 12-2-69, Cl. 260-613.
Vesely, Kenneth D., to Universal Oil Products Company. Hydrocarbon conversion catalyst. 3,457,190, 7-22-69, Cl. 252-451.
Vesely, Kenneth D., to Universal Oil Products Company. Method of spherical catalyst preparation. 3,472,791, 10-14-69, Cl. 252-448.
Vesely, Kenneth D.; and Michalko, Edward, to Universal Oil Products Company. Hydrocarbon conversion catalyst. 3,472,792, 10-14-69, Cl. 252-451.
Vesely, Kenneth Donald: *See—*
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth Donald,3,461,063.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth D.,3,461,061.
Vesely, Robert B.: *See—*
Lyall, Charles E.; Morrison, Edwin A.; and Vesely, Robert B.,3,441,047.
Vesper, Daniel M.; and Neer, Harold M., to Phillips Petroleum Company. Temperature controller. 3,440,397, 4-22-69, Cl. 219-209.
Vesper, Herbert J. Air rotary drill bit. 3,420,324, 1-7-69, Cl. 175-339.
Vessel, Richard L.: *See—*
Meyers, Gordon C.; and Vessel, Richard L.,3,445,592.
Vessot, Robert F. C., to Varian Associates. Compensation coils for magentic flux leakage through holes in magnetic shields. 3,462,705, 8-19-69, Cl. 331-94.
Vessot, S., Company Limited: *See—*
Boucher, Eugene, 3,461,516.
Vest, Gaylord G., to McKee, Arthur G., & Company. Welding apparatus carriage. 3,455,495, 7-15-69, Cl. 228-45.
Vestal, George A., to Union Carbide Corporation. Package containing large size, flat, flexible articles. 3,485,413, 12-23-69, Cl. 221-33.
Vestal, Richard A. Paraplegic aid. 3,421,529, 1-14-69, Cl. 135-45.

Vested, Robert A.: *See—*
Smith, George B.; and Vested, Robert A.,3,431,847.
Vester, Frederic, to Ciba Corporation. Process of extracting proteins from mistle press juice by carrier-free electrophoresis. 3,475,402, 10-28-69, Cl. 260-112.
Vester, Frederic; Majer, Heinz; and Mueller, Johannes, to Ciba Corporation. Process for purifying mistletoe proteins by ultracentrifugation. 3,472,831, 10-14-69, Cl. 260-112.
Vesterberg, Olof Alfred Yngve. Method of isoelectric fractionation. 3,485,736, 12-23-69, Cl. 204-180.
Vesuvius Crucible Company: *See—*
Smull, Eugene R., 3,462,121.
Weed, Seth E., 3,456,690.
Veteran, David R., to Hewlett-Packard Company. Conductor contact and method of making the same. 3,449,709, 6-10-69, Cl. 339-258.
Vetere, Nicholas A., to Arrow Group Industries. Steel shelving unit. 3,472,393, 10-14-69, Cl. 211-134.
Vetrone, Robert H.: *See—*
Finke, Robert C.; and Vetrone, Robert H.,3,420,945.
Vetsch, Rudolf August, to Warner & Swasey Company, The. Machine tool. 3,424,040, 1-28-69, Cl. 82-21.
Vette, Carl W. D. C. current regulator. 3,434,038, 3-18-69, Cl. 323-4.
Vetter, Ernst. Writing implement, especially ball-type pen. 3,464,774, 9-2-69, Cl. 401-110.
Vetter, Gerhard, to Ott, Herbert, LEWA. Diaphragm pump. 3,433,161, 3-18-69, Cl. 103-44.
Vetter, Hans-Joachim: *See—*
Bohn, Lothar; Jastrow, Horst; Leugering, Jans-Joachim; and Vetter, Hans-Joachim,3,472,917.
Vetter, Richard H., to D-One Hundred and Fifty, Inc. Cinema system utilizing a deeply curved screen and a mask for providing an illusion. 3,475,086, 10-28-69, Cl. 352-69.
Veuvius Crucible Company: *See—*
Kilgore, Ronald V., 3,472,432.
Vevirit, James V.; and Ihlenfeld, Francis J., to McDonald Products Corporation. Ash receptacle. 3,456,832, 7-22-69, Cl. 220-4.
Vevirit, James V.; Ihlenfeld, Francis J.; and Beil, Valentin E., to McDonald Products Corporation. Ashtray. 3,481,506, 12-2-69, Cl. 220-20.5
Vevoda, Robert F., to Owens-Corning Fiberglas Corporation. Wall construction. 3,438,163, 4-15-69, Cl. 52-198.
Vey, Regis A.: *See—*
Tiskus, John R.; and Vey, Regis A.,3,441,818.
Veyalis, Nina Petrovna, and: *See—*
Shonin, Leonid Nikolaevich; Konoplev, Jury Sergeevich; Komarov, Jury Alexandrovich; Ivanov, Igor Nikolaevich; Silin, Mikhail Danilovich; Veyalis, Nina Petrovna, and; and Karpinskaya, Vera Borisovna,3,443,432.
Vezin, Andre Marcel, to Societe de Prospection Electrique Schlumberger, S.A. Borehole apparatus for investigating subsurface earth formations including a plurality of pad members and means for regulating the bearing pressure thereof. 3,423,671, 1-21-69, Cl. 324-1.
Vezina, Claude; and Deghenghi, Romano, to American Home Products Corporation. Novel steroid compounds of the cholestane series. 3,476,779, 11-4-69, Cl. 260-397.2
Vezina, Claude: *See—*
Kruger, Gunter; Sehgal, Surendra N.; and Vezina, Claude,3,471,530.
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude,3,445,338.
Kruger, Gunther; Sehgal, Surendra N.; and Vezina, Claude,3,471,527.
Vezirakis, Steve, to Starmaster Trophies, Inc., mesne. Method of and apparatus for forming thump receptacles in bowling balls. 3,454,440, 7-8-69, Cl. 156-242.
Via, Hugh D., Jr. Electrophoresis migration chamber and method of using same. 3,445,360, 5-20-69, Cl. 204-180.
Via, William F., Jr. Disposable one-piece dental X-ray film holder. 3,444,371, 5-13-69, Cl. 250-70.
Vian, Jack C.: *See—*
Williams, Orville R.; and Williams, Floyd D., 3,452,575.
Vian-Ortuno, Angel; Jimenez-Gomez, Segundo; and Diez-Vilches, Antonio, to Empresa Auxiliar de la Industria, S.A. Method of producing oxide and hydroxide of zinc. 3,453,072, 7-1-69, Cl. 23-147.
Viancour, Albert D.: *See—*
Proudfoot, Ward M.; Craig, Burnie M.; and Viancour, Albert D.,3,480,043.
Vianelli, Francisco Indaco: *See—*
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez,3,462,538.
Vianova Kunstharz Aktiengesellschaft: *See—*
Honel, Herbert, 3,433,754.
Viart, Fernand, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Process for heating by induction. 3,472,987, 10-14-69, Cl. 219-10.41
Viater, Clement J., to Inland Steel Company. Octagonal pallets, blanks and methods for forming same and a container package utilizing the pallet. 3,474,901, 10-28-69, Cl. 206-65.
Viault, Frank, Jr. Process for producing baked flours. 3,445,239, 5-20-69, Cl. 99-93.
Viber Company: *See—*
Whitman, Ona Louis, 3,465,995.
Vibrionics Research Co.: *See—*
Stanish, Robert B., 3,422,311.
Vibro-Meter AG: *See—*
Hatschek, Rudolf, 3,463,010.
Hatschek, Rudolf A., 3,482,121.
Vicenzi, Reno L.; and Wallace, Elmer E., to Controls Company of America. Convertible modulating pressure regulator. 3,451,421, 6-24-69, Cl. 137-495.
Vichi, Ettore. Interchangeable elastic pad for abrading, grinding and sanding machine. 3,438,154, 4-15-69, Cl. 51-135.
Vichkanova, Serafima Alexandrovna: *See—*
Ilinskaya, Tamara Nikolaevna; Kuzovkov, Alexandr Dmitrievich; Vichkanova, Serafima Alexandrovna; Rubinchik, Mira Abramovna; Tolstykh, Ljudmila Petrovna; and Aleshkina, Yanina Adolfovna,3,464,975.
Vick, Elva B. Game comprising ball flipping means and target incorporating signaling means. 3,428,318, 2-18-69, Cl. 273-101.
Vick, Gerald L., to Conrac Corporation. Strain gage configuration. 3,456,226, 7-15-69, Cl. 338-2.
Vick, Howard A., to United States of America, National Aeronautics and Space Administration. Blood pressure measuring system for separating and separately recording D.C. signal and an A.C. signal. 3,467,837, 9-16-69, Cl. 307-260.
Vick, Ralph L., to Bendix Corporation, The. Flow equalizer and proportioner valve. 3,426,784, 2-11-69, Cl. 137-99.
Vick, Ralph L., to Bendix Corporation, The. Hot gas relief valve. 3,430,646, 3-4-69, Cl. 137-375.
Vick, Ralph L., to Bendix Corporation, The. Control valve providing means for minimizing seat wear. 3,451,429, 6-24-69, Cl. 137-625.65
Vicker Aircraft Holdings Limited: *See—*
Benzies, George Y., 3,434,181.
Vickers, Anthony G., to Universal Oil Products Company. Method for aromatic hydrocarbon recovery. 3,470,088, 9-30-69, Cl. 208-321.
Vickers, Dallas N., to Thiokol Chemical Corporation. Method and apparatus for preforming resin impregnated felts and mats. 3,421,959, 1-14-69, Cl. 156-224.
Vickers, Edward Jervis: *See—*
Greenshields, James Nairn; Langley, Bernard William; Vickers, Edward Jervis; Walpole, Arthur Leonard; and Williams, Michael Henry Currer,3,424,846.
Vickers Limited: *See—*
Campbell, William Henry; and Pennell, John Antony, 3,467,273.
Crawley, John; Saunders, Alan; Milne, Alistair; and Campbell, William Henry, 3,431,825.
Fitzsimmons, Alan Edward, 3,437,822.
Keane, Francis Xavier, 3,434,165.
Ogden, Peter James, 3,431,844.
Parkins, Malcolm Frederick, 3,459,232.
Smith, Francis Hughes, 3,459,464.
Williamson, Robert Henry, 3,474,749.
Vickers, Robert V., to Bliss, E. W., Company. Self-contained die cushion with air saver. 3,447,795, 6-3-69, Cl. 267-1.
Vickers, William Henry: *See—*
Hofton, James; Vickers, William Henry; and Woodward, Anthony,3,428,608.
Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen: *See—*
Albrecht, Werner; Dietze, Manfred; Kraft, Wolfgang; and Ullrich, Hansjurgen, 3,440,019.
Bende, Friedrich; Vollinger, Heinz; and Pohl, Kurt, 3,476,804.
Bende, Friedrich; Corsepius, Horst; and Hansel, Werner, 3,478,102.
Corsepius, Horst; and Bende, Friedrich, 3,481,969.
Dietze, Manfred; Kraft, Wolfgang; Scheller, Hans; and Ullrich, Hansjurgen, 3,466,150.
Frenger, Friedrich, 3,423,045.
Geisler, Hans Ferdinand; and Langanke, Helmut F., 3,449,220.
Gey, Werner; and Hofmann, Hans Dieter, 3,439,041.
Gey, Werner; Philipp, Wolfgang; Dittrich, Ewald; Corsepius, Horst; and Bonders, Peter, 3,451,900.
Goetzke, Juergen, 3,423,183.
Groepler, Rudi, 3,422,713.
Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrienlagen: *See—*
Hofmann, Hansdieter; Corsepius, Horst; and Kyber, Manfred, 3,485,820.
Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen: *See—*
Keller, Willi; Davin, Heinrich; and Kell, Hans, 3,485,516.
Kuhne, Heinz, 3,485,888.
Lassmann, Karl, 3,461,493.

Scheller, Hans, 3,438,942.
Vollinger, Heinz; Pohl, Kurt; and Bende, Friedrich, 3,476,805.
Vickery, Brian: *See—*
Bryce-Smith, Derek; Gilbert, Andrew; and Vickery, Brian,3,480,532.
Vickery, John Roy, Jr., to AMP Incorporated. Apparatus for making clip-type electrical connections. 3,466,729, 9-16-69, Cl. 29-203.
Vickery, John Roy, Jr.: *See—*
Reem, Richard Ellwood; and Vickery, John Roy, Jr.,3,436,820.
Vickery, Monte L.: *See—*
Skinner, Kenneth R.; and Vickery, Monte L.,3,447,130.
Victor Company of Japan, Limited: *See—*
Fujimoto, Masahiro; and Yamamoto, Toshiaki, 3,467,218.
Fujita, Katsushiro, 3,440,508.
Hayashi, Ichitaro; and Nishiwaki, Yoshiro, 3,428,760.
Inoue, Yuzuru; and Morita, Akiyoshi, 3,441,687.
Kaneko, Kansaku; Fujiwara, Toshimasa; Samuta, Osamu; Miyasaka, Takao; and Kitamura, Kenichi, 3,458,740.
Kaneko, Kansaku; Fujiwara, Toshimasa; and Asada, Fumio, 3,487,248.
Kawaguchi, Toshihiko; and Inami, Mamoru, 3,433,487.
Kawaharazaki, Yoichi, 3,433,486.
Kawasaki, Katsuhiro, 3,425,702.
Kinjo, Hisao; and Suzuki, Toshi, 3,445,608.
Kosugi, Tsuneo; and Takashima, Seiichi, 3,423,523.
Ohira, Tsunehisa, 3,458,158.
Ohtsu, Tadayasu; and Nagano, Masahiko, 3,483,319.
Suzuki, Toshi; and Ishii, Kaoru, 3,443,040.
Takayanagi, Kenjiro, 3,450,461.
Takayanagi, Kenjiro; and Matsuyama, Kihachiro, 3,454,808.
Ura, Junichi, 3,464,613.
Wada, Yoshiyo, 3,423,541.
Wada, Yoshiyo, 3,474,195.
Yamada, Hisayoshi, 3,480,744.
Victor Comptometer Corporation: *See—*
Hills, Bernard T., 3,469,338.
Sundstrand, Oscar J., 3,476,313.
Victor Electric Wire & Cable Corporation: *See—*
Grober, Abraham, 3,467,796.
Victor Engineering Corporation: *See—*
Sapoff, Meyer; and Froemel, John G., 3,452,314.
Victor Enterprises Limited: *See—*
Relf, Victor K., 3,439,873.
Victor Manufacturing and Gasket Company: *See—*
Kosatka, Thomas O., 3,480,286.
Victor Products Corporation: *See—*
Helsing, Knud J., 3,438,545.
Victor Tool and Manufacturing, Incorporated: *See—*
Marek, Joseph G.; and Erato, Vincent A., 3,469,908.
Victor Vending Corporation: *See—*
Schaef, Harold M., 3,420,591.
Victoreen, John A. Sound reproducer. 3,478,840, 11-18-69, Cl. 181-31.
Victorius, Claus: *See—*
Pruckmayr, Gerfried; and Victorius, Claus,3,461,136.
Victorius, Claus, to Du Pont de Nemours, E. I., and Company. Liquid polyamic acid composition and process for preparing same. 3,441,532, 4-29-69, Cl. 260-30.4
Victorius, Claus, to Du Pont de Nemours, E. I., and Company. Dyadic polymeric products. 3,454,516, 7-8-69, Cl. 260-29.6
Victory Engineering Corporation: *See—*
Froemel, John C.; and Sapoff, Meyer, 3,428,541.
Froemel, John G.; and Sapoff, Meyer, 3,464,907.
Sapoff, Meyer; and Froemel, John G., 3,483,114.
Victory Shelving Co.: *See—*
Wyeroski, Ronald M.; and Bokma, Mindert P., 3,478,993.
Vidal, Henri Charles. Constructional works. 3,421,326, 1-14-69, Cl. 61-39.
Vidal, Paul I., to Rocma Anstalt. Process and machine for the continuous application of protective or decorative coverings. 3,441,461, 4-29-69, Cl. 156-285.
Videka, Mark J.: *See—*
Lowery, Charles A., Jr.; and Videka, Mark J.,3,465,401.
Videon, John A. Vehicle weighing device. 3,443,652, 5-13-69, Cl. 177-136.
Vidosa S.A.: *See—*
Bays, Fernand, 3,445,106.
Bays, Fernand, 3,466,028.
Vidrine, Clyde G.: *See—*
May, Patrick L.; Vidrine, Clyde G.; and Beyer, Ralph E.,3,486,439.
Vidulich, Samuel M.: *See—*
Cohen, Robert; Shelly, William A.; and Vidulich, Samuel M.,3,482,265.
Viegas, George J. Gear shift mechanism. 3,461,739, 8-19-69, Cl. 74-473.
Viegas, John J., to Hoe, R., & Co., Inc. Web tension control. 3,452,945, 7-1-69, Cl. 242-75.42
Viehaus, Ludwig. Seat furniture unit which is convertible into a bed. 3,478,371, 11-18-69, Cl. 5-37.
Viehe, Heinz G.: *See—*
Delavarenne, Serge Y.; and Viehe, Heinz G.,3,483,256.
Viehe, Heinz G., to Union Carbide Corporation. Aminoacetylenes and method of preparation thereof. 3,427,354, 2-11-69, Cl. 260-570.8
Viehe, Heinz G., to Union Carbide Corporation. Addition reactions of aminoacetylenes. 3,437,663, 4-8-69, Cl. 260-294.7
Viehe, Heinz G., to Union Carbide Corporation. Cyclo-addition reactions of aminoacetylenes. 3,449,351, 6-10-69, Cl. 260-308.
Viehe, Heinz G.; and Hubert, Andre J., to Union Carbide Corporation. Process for producing aminoacetylenes from propargylamines. 3,439,038, 4-15-69, Cl. 260-583.
Vieira, David Da Costa, to Commissariat a l'Energie Atomique. Sensing device having a variable impedance and the application thereof to an apparatus for supervising from a distance the level of oil in a tank. 3,478,586, 11-18-69, Cl. 73-304.
Vielstich, Wolf, to Germany, Federal Republic of, represented by the Minister of Defense. Hydrazine fuel cell. 3,442,711, 5-6-69, Cl. 136-86.
Viene, John G., to Koch Supplier, Inc. Belt conveyor for sanitary food conveying. 3,456,776, 7-22-69, Cl. 198-208.
Viens, George E.; Campbell, Robert A.; Banks, George N.; Sachdeva, Roshan L.; and Sirianni, Guy V., to Canadian Patents and Development Limited. Method and apparatus for heat recovery in electric arc furnaces. 3,441,651, 4-29-69, Cl. 13-10.
Vient, Bernard G., to Sylvania Electric Products, Inc. Power divider. 3,422,377, 1-14-69, Cl. 333-9.
Vierling, Floyd C.: *See—*
Vierling, Robert L., 3,461,832.
Vierling, Robert L., to Vierling, Floyd C. Outboard motor lifting device. 3,461,832, 8-19-69, Cl. 115-41.
Viernickel, Konrad, to Telefunken Patentverwertungsgesellschaft m.b.H. Barium titanate compositions containing cerium and bismuth. 3,444,101, 5-13-69, Cl. 252-520.
Vierow, William F.: *See—*
Baier, Frederick J.; and Vierow, William F.,3,465,426.
Vierow, William F., to Mallory, P. R., & Co. Inc. Powder on wire capacitor. 3,424,952, 1-28-69, Cl. 317-230.
Viertel, Gunter: *See—*
Sennewald, Kurt; Erpenbach, Heinz; Rehberg, Heinrich; and Viertel, Gunter,3,476,776.
Viessmann, Hans. Guide and supporting elements for indirect water heaters. 3,428,031, 2-18-69, Cl. 122-33.
Vieth, George C., Jr., to Melpar, Inc. Function generator for simultaneously producing electrical wave forms of like wave shape and of predetermined phase displacement. 3,441,727, 4-29-69, Cl. 235-197.
Viets, Adolph W., Jr.: *See—*
Anthony, Andrew J.; and Viets, Adolph W., Jr.,3,423,287.
View-Meter, Inc.: *See—*
Holman, Thomas O., 3,472,328.
Viewall Television Products Corporation: *See—*
Maner, William S., 3,482,250.
Viewlex, Inc.: *See—*
Mindell, Marvin; and Rudzitis, Karl, 3,480,282.
Mindell, Marvin I., 3,444,354.
Mindell, Marvin I.; Heikkila, Andrew E.; Harrison, Henry; and Wolz, Rudolph G., 3,477,008.
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G., 3,420,464.
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G., 3,476,475.
Viger, Howard L.: *See—*
Giles, Ben F.; and Viger, Howard L.,3,460,064.
Vigier, Francois C.: *See—*
Farley, John David, 3,456,661.
Vigil, Abraham Chavez: *See—*
Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez,3,462,538.
Vigil, David A., to RCA Corporation. Method of spacing a plurality of magnetic heads from the surface of a magnetic drum. 3,478,262, 11-11-69, Cl. 324-34.
Vigliante, Frank S.: *See—*
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K.,3,426,158.
Jacoby, John Z.; and Vigliante, Frank S.,3,420,960.
Vigluicci, Kenneth J. Concealed bedroom fire exit. 3,477,543, 11-11-69, Cl. 182-76.
Vignati, Carlo: *See—*
Podesta', Armando; and Vignati, Carlo,3,446,381.
Podesta, Armando; and Vignati, Carlo,3,455,275.
Podesta, Armando; and Vignati, Carlo,3,463,349.
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre,3,434,325.
Podesta, Armando; Vignati, Carlo; and Bereziat, Andre,3,486,959.

Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard, to Roussel-Uclaf. Novel process for the preparation of 3-oxo- $\Delta^{4,9,11}$-trienic steroids. 3,453,267, 7-1-69, Cl. 260-239.55
Vigneault, John H., to Coated Products, Inc. Polytetrafluoroethylene coated hot cutting die. 3,465,627, 9-9-69, Cl. 83-171.
Vignerot, Marcel F. Automatic water level control. 3,472,172, 10-14-69, Cl. 103-276.
Vigor, Charles W.: *See—*
Mantel, Edward R.; Vigor, Charles W.; and Iwankovitsch, Stephen W.,3,479,731.
Musial, Joseph A.; and Vigor, Charles W.,3,460,366.
Vihl, Bernhard. Apparatus for continuous forming of strip material. 3,452,568, 7-1-69, Cl. 72-137.
Viitanen, Veikko K.: *See—*
Crawford, Donald C.; Viitanen, Veikko K.; and Hoffman, John D.,3,431,828.
Vik, Albam M., to Inventors Engineering Inc. Tilting mechanism for a lifting implement. 3,426,929, 2-11-69, Cl. 214-778.
Vik, Albam M., to Inventors Engineering Inc. Load clamping and articulate apparatus. 3,438,523, 4-15-69, Cl. 214-313.
Vik, Albam M., to Inventors Engineering Inc. Clamp mechanism for a lifting implement. 3,438,669, 4-15-69, Cl. 294-90.
Vik Supplies Limited: *See—*
Simon, Hermann; Vohralik, Vaclav; Denson, John Michael; and Farey, Keith Horace, 3,473,990.
Viking Corporation, The: *See—*
Groos, Richard T., 3,454,097.
Viking of Minneapolis: *See—*
Pietenpol, Kermit W.; and Schober, Wayne E., 3,431,543.
Viking Oil Company: *See—*
Berry, Charles E., 3,432,093.
Viking Sauna Company: *See—*
Jones, Robert H.; and Nylin, Lennard E., 3,422,465.
Jones, Robert Haldon; Nylin, Lennard Edward; and Olssen, Tor H., 3,452,369.
Vilarrubis & Sague S.A.: *See—*
Ferrando, Juan V., 3,420,220.
Vilcin, Ilmar J., to Signode Corporation. Combination strap tensioning and sealing tool. 3,442,733, 5-6-69, Cl. 156-73.
Vilcins, Ilmar J.: *See—*
Stensaker, Lee A.; Heymann, Seymour E.; Young, Hobart P.; and Vilcins, Ilmar J.,3,442,732.
Vilen, Erik O., to Triangle Package Machinery Company. Automatic wrapping machine. 3,486,294, 12-30-69, Cl. 53-66.
Vilinskas, Peter, to Atomic Power Development Associates, Inc. Continuous reading hydrogen meter. 3,452,585, 7-1-69, Cl. 73-19.
Vill, Vadim Ivanovich; Kochanovsky, Nikolai Jakovlevich; Tazba, Semen Moiscevich; Shpeizman, Miron Matveevich; and Shternin, Lev Alexandrovich, to Vsesouzny Nauchno-Issledovatelsky Institute Elektrosvarochnogo Oborudovanija. Friction welding machine. 3,460,734, 8-12-69, Cl. 228-2.
Villa, Carlo: *See—*
Piazzolla, Giovanni; and Villa, Carlo,3,464,451.
Villa, Francesco: *See—*
Odian, Allen C.; Bulos, Fatin; Villa, Francesco; and Yount, David E.,3,445,661.
Villa, Gianfranco: *See—*
Christie, Edward Thomas; and Villa, Gianfranco,3,485,119.
Villa, Jose L.: *See—*
Osborn, Stephen W.; and Villa, Jose L.,3,457,277.
Osborn, Stephen W.; Broderick, Edward; and Villa, Jose L.,3,426,039.
Villa, Peter S.; and Schaeffer, Charles W., to Bethlehem Steel Corporation. Hook bolt bending header tool. 3,447,355, 6-3-69, Cl. 72-321.
Villa, Tapio, to Valmet Oy. Paper machine head box support. 3,468,756, 9-23-69, Cl. 162-344.
Villain, Pierre, to Novacel S.A. Process for producing artificial sponges. 3,476,844, 11-4-69, Cl. 264-49.
Villalobos, Humberto Fernandez Moran. Process of determining dimensions and properties of cutting edges of molecular dimensions. 3,447,366, 6-3-69, Cl. 73-104.
Villalobos, Joseph A., to AER Corporation. Ventilating apparatus for paper machine pocket. 3,427,727, 2-18-69, Cl. 34-155.
Villalobos, Richard, to Beckman Instruments, Inc. Capillary bypass column. 3,457,773, 7-29-69, Cl. 73-23.1
Villani, Frank J., to Schering Corporation. Substituted phenethyl heterocycles and their derivatives. 3,448,108, 6-3-69, Cl. 260-250.
Villani, Frank J., to Schering Corporation. Novel 5-alkylaminoalkoximino-azo-dibenzo-[α,d] -cycloheptenes. 3,458,524, 7-29-69, Cl. 260-295.
Villani, John A.; and Wilson, Arthus S., to North American Rockwell Corporation. Loom cloth roll. 3,482,607, 12-9-69, Cl. 139-304.
Villarica, Rudolfo: *See—*
Hennessey, Douglas J.; and Villarica, Rudolfo,3,449,447.
Villarreal, David: *See—*
Celada, Juan; Villarreal, David; and MacKay, Patrick W.,3,423,201.
Celada, Juan; Villarreal, David; Reyna, Armando; and Mackay, Patrick W.,3,467,368.
Villars, Julio. Lifting installation. 3,435,915, 4-1-69, Cl. 187-8.47
Villasana, Armando P.: *See—*
Crosman, Dorland L.; See, Thomas E.; and Villasana, Armando P.,3,459,294.
Villaume, Henry F.: *See—*
Currie, Robert B.; Sellinger, Martin S.; and Villaume, Henry F.,3,422,632.
Villax, Ivan, to International Rectifier Corporation. Fermentative production of tetracycline. 3,432,394, 3-11-69, Cl. 195-80.
Villemure, Fred W.; and Anderson, Ralph F. Boxing machine. 3,420,037, 1-7-69, Cl. 53-186.
Viller, Ladislava: *See—*
Mortillaro, Luigi; Russo, Mario; and Bezzi, Silvio,3,425,991.
Villers, Philippe, to Barnes Engineering Company. Solid backed thermopile. 3,436,274, 4-1-69, Cl. 136-224.
Villers, Philippe, to Barnes Engineering Company. Thermopile and lead structure. 3,483,045, 12-9-69, Cl. 136-225.
Villers, Philippe; and Falbel, Gerald, to Barnes Engineering Company. Thermopile radiation detector system. 3,424,624, 1-28-69, Cl. 136-213.
Villers, Philippe; and Hayes, Woodrow L., to Singer-General Precision, Inc. Thermal die marker. 3,461,567, 8-19-69, Cl. 33-189.
Villiers, Jacques J., to Centre National de la Recherche Scientifique. Radio navigation system having automatic error compensation. 3,483,560, 12-9-69, Cl. 343-108.
Villo, Joseph P., to Standard Pressed Steel Co. Protective and locking cap for socket-head cap screws. 3,425,313, 2-4-69, Cl. 85-53.
Vilter Manufacturing Corporation: *See—*
Kocher, Erich J.; and Grant, Whitney I., 3,478,533.
Viltschek, Endre; and Gal, Laszlo, to Technoimpex Magyar Gepipari Kulkereskedelmi Vallalat. Hydraulic metal press. 3,427,846, 2-18-69, Cl. 72-81.
Vimetal S.A.: *See—*
Haueter, Jean, 3,465,514.
Vinal, Albert W.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,019.
Vinal, Albert W., to International Business Machines Corporation. Electrical switching apparatus. 3,482,222, 12-2-69, Cl. 340-174.
Vinal, Albert W., to International Business Machines Corporation. High-speed memory device with improved read-store circuits. 3,487,372, 12-30-69, Cl. 340-172.5
Vinas, Maria Teresa Clermont: *See—*
Serracant Selvas, Jose, 3,474,645.
Vince, John, to Honeywell Inc. Spectrophotometric readout device. 3,484,596, 12-16-69, Cl. 235-197.
Vincent, Andrew W. Constant force electromechanical actuator. 3,427,576, 2-11-69, Cl. 335-276.
Vincent, Charly. Construction of rollers for pellet mills. 3,485,186, 12-23-69, Cl. 107-14.
Vincent, Darrell M., 'Automatic' Sprinkler Corporation of America. Materials mixer. 3,450,392, 6-17-69, Cl. 259-178.
Vincent, Donald P.: *See—*
Staats, Henry N.; Vincent, Donald P.; and Winkelmann, John F.,3,427,914.
Vincent, Donat A. A.; and Morrison, Robert A., to United States of America, Army, mesne. Circuit safe connector. 3,422,388, 1-14-69, Cl. 339-36.
Vincent, Donat A.A.: *See—*
Herman, Neil H.; and Vincent, Donat A.A.,3,475,678.
Vincent, Etienne H. Method and device for the loading of ores. 3,447,702, 6-3-69, Cl. 214-41.
Vincent, Gerald G.; and Burkholder, Joseph E., to Dow Chemical Company, The. Bond strength for foam-metal laminates. 3,437,536, 4-8-69, Cl. 156-78.
Vincent, Gerald G.; and Burkholder, Joseph E., to Dow Chemical Company, The. Method of producing polymer - metal laminates and product thereof. 3,468,753, 9-23-69, Cl. 161-216.
Vincent, Gerald G; and Lamos, Richard C., to Dow Chemical Company , The. Process for making laminated printing pltes. 3,447,460, 6-3-69, Cl. 101-401.1
Vincent, Gerald G.; and Saunders, Frank L., to Dow Chemical Company, The. Treatment of metals for promoting adhesion of polyolefins. 3,466,207, 9-9-69, Cl. 156-3.
Vincent, Harold L.: *See—*
Plueddemann, Edwin P.; and Vincent, Harold L.,3,461,095.
Vincent, James G., Jr.; Hansen, Lloyd Frank; Yen, Ernest Chu; Taylor, Arthur Sinclair; Bott, George Spencer; and Greif, Martin, to American Cyanamid Company. Surface dyed edible gelatin capsule with pigment marking. 3,436,453, 4-1-69, Cl. 424-6.
Vincent, Jerome L.: *See—*
Weber, Christian A.; and Vincent, Jerome L.,3,467,569.

Vincent, John S.: *See—*
Fessler, Theodore E.; Smith, Albert B.; and Vincent, John S.,3,421,056.
Vincent, Lawrence, to Square D Company. Bus duct having particularly shaped and spaced bus bars. 3,472,946, 10-14-69, Cl. 174-68.
Vincent, Michel Marius Jean: *See—*
Maillard, Jacques Georges Albert Eugene; and Vincent, Michel Marius Jean,3,441,650.
Vincent, Peter A., to Bendix Corporation, The. Feed inductor for static inverter. 3,437,908, 4-8-69, Cl. 321-45.
Vincent, Rene C.: *See—*
Brisse, William C.; and Vincent, Rene C.,3,422,211.
Vincent, Renic P., to Pan American Petroleum Corporation. Riser pipe. 3,465,817, 9-9-69, Cl. 166-0.5
Vincent, Renic P., to Pan American Petroleum Corporation. Anchored riser pipe mooring system for drilling vessel. 3,481,294, 12-2-69, Cl. 114-0.5
Vincent, Renic P., to Pan American Petroleum Corporation. Small diameter riser pipe system. 3,486,555, 12-30-69, Cl. 166-0.5
Vincent, Renic P.; and Wilder, Lawrence B., to Pan American Petroleum Corporation. Joint for coupling two tubular members together. 3,472,538, 10-14-69, Cl. 285-374.
Vincent, Renic Price; and Wilder, Lawrence B., to Pan American Petroleum Corporation. Drilling apparatus. 3,464,505, 9-2-69, Cl. 173-80.
Vincent, Robert E.; Collins, Charles G.; Snyder, Nate H.; and West, Frank B., to Shell Oil Company. Apparatus for distilling liquids. 3,458,404, 7-29-69, Cl. 202-176.
Vincent, Robert R.; and Huffman, Mervin C., to Gardner-Denver Company. Centralizer. 3,441,323, 4-29-69, Cl. 308-3.9
Vincent, Thomas G., to Honeywell Inc. Liquid sensitive switch. 3,437,769, 4-8-69, Cl. 200-61.04
Vinco Corporation: *See—*
Riddell, Vernon A., 3,451,384.
Riddell, Vernon A., 3,469,321.
Vind, Holger V., to Danfoss A/S. Electrical switches having a rest contact and self-holding means. 3,432,786, 3-11-69, Cl. 337-95.
Vind, Tyge Flensburg, to Stal-Laval Turbin AB. Overspeed monitor testing apparatus. 3,429,180, 2-25-69, Cl. 73-168.
Vinding, Jorgen P. Wireless and radioless (nonradiant) telemetry system for monitoring conditions. 3,427,614, 2-11-69, Cl. 343-6.5
Vinding, Jorgen P. Interrogator-responder identification system. 3,440,633, 4-22-69, Cl. 340-258.
Vineland Poultry Labs.: *See—*
Hudson, Charles B., 3,444,293.
Viner, Charles G. Automatic balance valve for heat exchanging fluid. 3,420,440, 1-7-69, Cl. 236-93.
Vines, Raymond F.: *See—*
Rhoda, Richard N.; and Vines, Raymond F.,3,486,928.
Vinet, Marius, to Vapor Corporation. Track switch heater. 3,425,408, 2-4-69, Cl. 126-271.2
Vineyard, Billy Dale, to Monsanto Company. Branched chain butyl formaldehyde mercaptals. 3,478,107, 11-11-69, Cl. 260-609.
Vingas, George J.: *See—*
Zrimsek, Arthur H.; and Vingas, George J.,3,431,123.
Vinitsky, Konstantin Efimovich; and Goncharevich, Igor Fomich. Vibrating jaw crushers. 3,465,976, 9-9-69, Cl. 241-206.
Vink, Adrianus Teunis: *See—*
Heijne, Leopold; and Vink, Adrianus Teunis,3,426,597.
Vinkler, Attila; and Cserhati, Janos, to Nikex Nehezipari Kulkereskedelmi Vallalat. Chemical composition and method for the removal of beer stone. 3,449,164, 6-10-69, Cl. 134-3.
Vinogradov, Alexandr Sergeevich; Kapustin, Jury Mikhailovich; Maxjutenko, Ilya Nikolaevich; Kiselnikov, Vladimir Nikolaevich; Borisov, Igor Sergeevich; and Mazalov, Ivan Mikhailovich. Card flat stripper. 3,419,940, 1-7-69, Cl. 19-111.
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich. Drum shredder. 3,472,298, 10-14-69, Cl. 146-96.
Vinogradova, Svetlana Vasilievna: *See—*
Korshak, Vasily Vladimirovich; Vinogradova, Svetlana Vasilievna; Salazkin, Sergei Nikolaevich; and Bereza, Svetlana Veniaminovna,3,480,597.
Vinson, Paul, to Wolverine-Pentronix, Inc. Powder hopper for powder compacting press. 3,469,283, 9-30-69, Cl. 18-16.
Vinton, Clarence S.; and Rice, Edwin E., to Chemotronics, Incorporated. Process for the transient thermal treatment of a porous mass. 3,456,047, 7-15-69, Cl. 264-80.
Vinyard, Herschel T.: *See—*
Blood, Alden E.; Vinyard, Herschel T.; and Phillips, Glenn L.,3,466,149.
Hagemeyer, Hugh J., Jr.; Statman, Max; and Vinyard, Herschel T.,3,442,933.
Statman, Max; Blood, Alden E.; and Vinyard, Herschel Thomas,3,425,798.
Vinz, Ottmar, to Jenaer Glaswerk Schott & Gen. Tubular condenser of variable capacity. 3,426,256, 2-4-69, Cl. 317-249.
Viol, Gunter; and Kohfeld, Werner. Method of making foldable wooden lamellae for folding doors and the like. 3,476,630, 11-4-69, Cl. 156-268.
Viola, Vito: *See—*
Kinney, Mel E.; and Viola, Vito,3,444,977.
Viola, Vito, to Friden, Inc. Postage meter tape feeding mechanism. 3,427,968, 2-18-69, Cl. 101-228.
Violette, Glenn M.: *See—*
Paquin, Leon J.; Mosher, Owen D.; and Violette, Glenn M.,3,448,000.
Violleau, Andre, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Landing and float gear for helicopters, especially light helicopters. 3,467,343, 9-16-69, Cl. 244-17.17
Viollet, Gerard J. Combined measuring instruments. 3,442,018, 5-6-69, Cl. 33-169.
Viout, Andre: *See—*
Kalopissis, Gregoire; and Viout, Andre,3,436,167.
Kalopissis, Gregoire; Zviak, Charles; and Viout, Andre,3,472,820.
Viramontes, Jose A. Ground scraping implement. 3,441,090, 4-29-69, Cl. 172-777.
Virany, Thomas Alexander Robert. Chairs. 3,466,092, 9-9-69, Cl. 297-445.
Virgil, Carl W., Jr., to Hooker Chemical Corporation. On-off operation of chlor-alkali diaphragm cells. 3,485,730, 12-23-69, Cl. 204-98.
Virginia Chemicals Inc.: *See—*
Krause, Walter O.; and Rupert, Kenneth W., 3,483,714.
Virkki, Jalmari Selim. Fastening device for scaffolds. 3,448,958, 6-10-69, Cl. 248-237.
Virkki, Jalmari. Protective device for openable windows of buildings. 3,465,477, 9-9-69, Cl. 49-54.
Viro, Felix, to GAF Corporation. Light sensitive silver halide emulsions. 3,458,316, 7-29-69, Cl. 96-94.
Virola S.A.: *See—*
Dumont, Marcel, 3,430,435.
Vironda, Italo D. Firearm recoil reducer with an inertia member having valve means therein. 3,461,589, 8-19-69, Cl. 42-74.
Virta, Arthur W., Sr.: *See—*
Kiwiet, Johannes; and Virta, Arthur W., Sr.,3,459,586.
Virtanen, Aate R.; and Auer, Aarne Matias. Gauge for measuring the level of a liquid in a tank. 3,433,072, 3-18-69, Cl. 73-304.
Virtanen, Viljo Niilo. Revolver type semiautomatic firearm. 3,470,788, 10-7-69, Cl. 89-155.
Virtis Company, Inc., The: *See—*
Bender Charles E.; Fraser, Douglas S.; and Thompson, Taylor N., 3,463,342.
Bender, Charles E.; and Thompson, Taylor N., 3,474,543.
Gilmont, Roger; and Parkinson, Martin C., 3,453,890.
Gilmont, Roger; and Parkinson, Martin C., 3,478,779.
Virva, John; and Olson, Thor F., to Admiral Corporation. Mid-range speaker and enclosure combination. 3,443,660, 5-13-69, Cl. 181-31.
Virzi, Donald R., to Chase Products Company. Antiperspirant composition containing aluminum hydroxychloride. 3,472,928, 10-14-69, Cl. 424-47.
Vis, Russell: *See—*
Decker, Frederick J., 3,437,304.
Visaggio, Andrew: *See—*
Greenwood, William S., Jr.; and Visaggio, Andrew,3,467,039.
Visani, Francesco: *See—*
LoMonaco, Sergio; Melacini, Paolo; Borsini, Giancarlo; Magagnin, Luigi Ciligot; and Visani, Francesco,3,476,727.
Vischer, Alfred, III: *See—*
Vischer, Alfred, Jr., 3,431,902.
Vischer, Alfred, Jr., 2/30 each to Vischer, William, Vischer, Alfred, III Vischer, Peter, and Bouton, Gertrude V., 4/30 each to Zitzewitz, Walter W., and Zitzewitz, Elmer K., and 1/30 each to Zitzwitz, Gertrude J., and Zitzewitz, Barbara O. Pressure cooking system including pressure operated drain valve. 3,431,902, 3-11-69, Cl. 126-20.
Vischer, Ernst: *See—*
Gaeumann, Ernst; Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst,3,471,476.
Vischer, Ernst; Fechtig, Bruno; and Bickel, Hans, to Ciba Corporation. Therapeutically active derivatives of 7-aminocephalosporanic acid and process for the manufacture of 7-aminocephalosporanic acid. 3,454,564, 7-8-69, Cl. 260-243.
Vischer, Peter: *See—*
Vischer, Alfred, Jr., 3,431,902.
Vischer, Peter: *See—*
Kosrow, Robert L.; and Vischer, Peter,3,457,886.
Vischer, William,: *See—*
Vischer, Alfred, Jr., 3,431,902.
Viscolosi, Louis Anthony. Eviscerating apparatus and method. 3,474,492, 10-28-69, Cl. 17-45.
Visconti, Fioravante. Wingless VTOL aircraft. 3,456,902, 7-22-69, Cl. 244-23.

Vishay Intertechnology, Inc.: *See—*
Smith, John P., Jr., 3,474,375.
Zandman, Felix; and Post, Daniel, 3,445,168.
Visi-Trol Engineering Company: *See—*
Auernhammer, Marcus J.; and Waara, William A., 3,437,191.
Vision Engineering Limited: *See—*
Freeman, Robin John, 3,481,673.
Visitacion, Aniceto R. Shoe-borne, step-actuated noise makers. 3,432,964, 3-18-69, Cl. 46-189.
Vislocky, Nicholas. Laser structure with laser element inserted concentrically within cyclindrical light pump tube. 3,448,403, 6-3-69, Cl. 331-94.5
Visorama Printed Motions Company: *See—*
Siksai, Anthony, 3,437,401.
Visos, Charles D., to Emerson Electric Co. Burner control device for a water heater. 3,447,746, 6-3-69, Cl. 236-21.
Visos, Charles D., to Emerson Electric Co. Snap-acting thermostatic gas valve. 3,474,962, 10-28-69, Cl. 236-48.
Viss, Normal L.: *See—*
Quosig, Ralph A.; and Viss, Normal L.,3,421,150.
Visscher, Johannes Mattheus, to U.S. Philips Corporation, mesne. Devices for braking tape-shaped information carriers. 3,458,098, 7-29-69, Cl. 226-195.
Visser, Jan C., to N.V. Maschinefabriek en Ijzergieterij 'Holland-Bergen op Zoom'. Gate valve with seat having merging inclined faces. 3,485,477, 12-23-69, Cl. 251-328.
Visser, Reinold H.: *See—*
Fisher, Robert E.; Kofman, Rijkent W.; Reichert, Ernest D.; and Visser, Reinold H.,3,432,916.
Visser, Robert C., to Shell Oil Company. Marine conductor pipe assembly. 3,426,843, 2-11-69, Cl. 166-0.5
Visser, Robert C.: *See—*
Goepfert, Benjamin L.; and Visser, Robert C.,3,454,051.
Vissers, Herbert, to Landbouwwerktwigen- en Machinefabriek H. Vissers N.V. Rotary drum for cooling castings. 3,469,324, 9-30-69, Cl. 34-13.
Vissnia, Henri. Magnetostriction transducer. 3,440,871, 4-29-69, Cl. 73-141.
Viste, Kenneth L., to Rohm & Haas Company. Method of applying herbicidal imidates. 3,468,655, 9-23-69, Cl. 71-121.
Visual Graphics Corp.: *See—*
Friedel, Murray, 3,437,409.
Visula Information Institute, Inc.: *See—*
Harshbarger, John H., 3,483,479.
Vit, Jaroslav; Prochazka, Vladimir; and Salat, Vaclav, to Ceskoslovenska akademie ved. Apparatus for the reaction of a molten substance and gas at elevated temperature and pressure. 3,460,821, 8-12-69, Cl. 266-34.
Vita Zahnfabrik H. Rauter K.G.: *See—*
Kupper, Karl Alfred, 3,445,932.
Vitacco, Nicholas P., to Belke Manufacturing Company. Variable, commutating contact electroplating barrel. 3,432,419, 3-11-69, Cl. 204-213.
Vitale, Carmen. Portable cooking grill. 3,421,433, 1-14-69, Cl. 99-340.
Vitale, Charles. Tobacco ash receiver. 3,426,762, 2-11-69, Cl. 131-236.
Vitale, Donald J.; Eagleson, Edwin W.; Harris, Thomas B.; and Menichelli, Vencent J., to United States of America, Navy. Multicanister ejecting device. 3,461,801, 8-19-69, Cl. 102-37.6
Vitale, Joe A. Cloth repair kit. 3,459,293, 8-5-69, Cl. 206-16.
Vitallo, Nugent James. Automatic engine starter. 3,453,444, 7-1-69, Cl. 290-38.
Vitamins, Inc.: *See—*
Elenbogen, Gilbert D.; and Clovis, Merle A., 3,438,782.
Vitamins Limited: *See—*
Watt, Peter Ridgway, 3,460,914.
Vitatoe, Welby: *See—*
Brock, Randall D., 3,478,199.
Vitek, Oto: *See—*
Braun, Vlastimil; and Vitek, Oto,3,445,095.
Vitello, John P.; and Bascobert, Rene F., to Sterilon Corporation. Fluid administration apparatus. 3,437,117, 4-8-69, Cl. 150-3.
Viterbo, Rene; Mastursi, Michele; and Lembo, Sabino, to Farmochimica Cutolo-Calosi S.p.A.N-[5H-Dibenzo-(a,d)-cyclohepten-5-one-11-YL]- piperazines and method of preparing the same. 3,457,264, 7-22-69, Cl. 260-268.
Vitez, Bela, to Allis-Chalmers Manufacturing Company. Jaw crusher. 3,465,975, 9-9-69, Cl. 241-201.
Vitkovicke zelezarny Klementa Gottwalda narodni podnik: *See—*
Bursik, Jan; Bursik, Ladislav; Kusiak, Ladislav; and Nierla, Miroslav, 3,439,606.
Vitkus, Paul L., to National Research Corporation. Process of epitaxial growth of silicon carbide. 3,462,321, 8-19-69, Cl. 148-172.
Vitols, Reinhard: *See—*
Williams, Albert Henry; and Vitols, Reinhard,3,460,442.
Vitramon, Incorporated: *See—*
Belko, William R., Jr., 3,452,257.
Montgomery, John R., 3,450,227.
Weller, Barton L., 3,426,267.
Vitretex (Central Africa) Limited: *See—*
Saunders, Laurence F., 3,444,118.
Vitro Corporation of America: *See—*
Gebler, Kenneth A.; and Ortner, Martin H., 3,467,588.
Guerrieri, Angelo J., 3,457,355.
Maloney, Gerald C.; and Bassett, Robert E., 3,452,949.
Ortner, Martin H.; and McCullough, Harold M., 3,447,912.
Simon, Donald R.; Rogers, Kenneth C.; and Sileo, Francis R., 3,426,233.
Vitrone, John: *See—*
Barton, Oliver A.; Griffin, William D.; Lund, Richard B.; Vitrone, John; and Oser, Zalik,3,483,164.
Lund, Richard B.; and Vitrone, John,3,424,795.
Vitry, Gerard, to Ateliers Francois Brasseur. Vibratory roller, for rolling ground surfaces, having tandem-mounted rollers. 3,422,735, 1-21-69, Cl. 94-50.
Vitt, George G., Jr.; and Gaskill, James R., Jr., to Hughes Aircraft Company. Photoelectric monitoring system for holding the object plane in proper focus. 3,454,772, 7-8-69, Cl. 250-204.
Vitt, George G., Jr.: *See—*
Gaskill, James Robbins, Jr.; and Vitt, George G., Jr.,3,436,589.
Vitt, Leonard P.; and Kendig, Robert M., to Femco, Inc. Automatic microscopic electronic data accumulator. 3,461,280, 8-12-69, Cl. 235-92.
Vittoe, Enioch C. Coffee brewing device. 3,425,337, 2-4-69, Cl. 99-281.
Vittoe, Enioch C. Coffee brewing device. 3,425,338, 2-4-69, Cl. 99-289.
Vitzthum, Dieter: *See—*
Schmidt, Walter; Vitzthum, Dieter; Hoffmann, Herbert; and Katz, Helmut,3,458,913.
Vitzthum, Diether: *See—*
Hoffmann, Herbert; and Vitzthum, Diether,3,454,816.
Vitzthum, Diether, to Siemens Aktiengesellschaft. Electron beam production system for electronic discharge. 3,474,281, 10-21-69, Cl. 313-337.
Vivancos, Julien; and Corbin, Andre A., 1/4 to Raby, Omer P., and 1/4 to Pringle, John E. C. Idle air control means for two-cycle engine driven chain saws. 3,463,204, 8-26-69, Cl. 143-32.
Vivares, Claude; and Schaller, Albert, to Institut de Recherches de la Siderurgie Francaise. Apparatus for withdrawing samples from gas streams. 3,486,382, 12-30-69, Cl. 73-421.5
Vivian, Donald L.Acenaphtho [1,2-b] quinoxaline, 7,12-dioxide. 3,481,931, 12-2-69, Cl. 260-250.
Vivien, Jean: *See—*
Rouge, Pierre; Roze, Michel; and Vivien, Jean,3,425,908.
Vix, Henry L. E.: *See—*
Fisher, Charles H.; Knoepfler, Nestor B.; Kingsbery, Emery C.; Cheatham, Robert J.; and Vix, Henry L. E.,3,483,570.
Masri, Merle Sid; Vix, Henry L. E.; and Goldblatt, Leo A.,3,429,709.
Vizsolyi, Andrew I.; Armstrong, Anna M.; and Forward, Frank A., to Sherritt Gordon Mines Limited. Treatment of copper bearing complex sulphides. 3,459,535, 8-5-69, Cl. 75-1.
Vlacil, Frank F.: *See—*
Frantz, Charles E.; and Vlacil, Frank F.,3,446,067.
Vlamovensteenfabriek Van Hesteren & Janssens: *See—*
Pompe, Wilhelmus A.M., 3,486,614.
Vlas, Peggy Joyce: *See—*
Vlas, Theodore; and Vlas, Peggy Joyce,3,455,037.
Vlas, Theodore; and Vlas, Peggy Joyce. Mini sandal. 3,455,037, 7-15-69, Cl. 36-11.5
Vlasak, Weldon Richard Harry, to Airpax Electronics Incorporated. FM demodulator utilizing a square loop core. 3,466,555, 9-9-69, Cl. 329-127.
Vlasov, Sergei Nikolaevich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Abdulragimov, Aliovsad Ibragim Ogly; Vlasov, Sergei Nikolaevich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich,3,472,036.
Vlig, Meye: *See—*
Burns, William C.; and Vlig, Meye,3,432,071.
Vlnaty, Joseph, to Dravo Corporation. Heat indurated compacts of manganese ore and process of making same. 3,486,880, 12-30-69, Cl. 75-5.
Vock, Bernhard; and Torrey, LeRoy J., to Radiation Incorporated. Welder with thermal insulation stripper. 3,475,581, 10-28-69, Cl. 219-86.
Vock, Richard C., to Xerox Corporation. Corona discharge apparatus for creating an electrostatic charge pattern on a xerographic surface. 3,449,568, 6-10-69, Cl. 250-49.5
Vockenhuber, Karl: *See—*
Broeckl, Heinz Wilhelm; and Freudenschuss, Otto, 3,464,765.
Freudenschusz, Otto, 3,432,229.
Freudenschusz, Otto, 3,463,580.
Wessner, Harald, 3,428,394.
Vockenhuber, Karl; and Bystricky, Karl, said Bystricky assor. to said Vockenhuber. Variable focal length optical system. 3,433,559, 3-18-69, Cl. 350-42.

Vodar, Boris: *See—*
Dumartin, Serge; Oksengorn, Boris; Tobin, Marvin; and Vodar, Boris,3,469,920.
Vodicka, Vincent, to General Electric Company. Electroluminescent display device with indicia electrodes and circuit leads of metal foil. 3,435,270, 3-25-69, Cl. 313-108.
Vodicka, Vincent, to General Electric Company. Method of manufacturing electroluminescent display devices. 3,461,522, 8-19-69, Cl. 29-25.11
Vodoklys, Frank M., to Westinghouse Electric Corporation. Discharge lamp incorporating phosphor which is normally sensitive to lehring and method. 3,435,271, 3-25-69, Cl. 313-109.
Vodoklys, Frank M.; and Mortensen, Gilbert P., to Westinghouse Electric Corporation. Processing of halophosphate phosphor. 3,470,106, 9-30-69, Cl. 252-301.4
Vodoklys, Frank M.; and Ropp, Richard C., to Westinghouse Electric Corporation. Antimony activated halophosphate phosphor with rare earth additive. 3,430,090, 2-25-69, Cl. 313-109.
Vodopia, Anthony L.: *See—*
Berry, Robert L.; and Vodopia, Anthony L.,3,457,730.
Voedisch, Robert W., to Lawter Chemicals, Inc. Water soluble daylight fluorescent pigment and composition. 3,429,825, 2-25-69, Cl. 252-301.2
Voedisch, Robert W.; and de Pelichy, Reginald, to Lawter Chemicals, Inc. Pigmented printing ink and method. 3,455,856, 7-15-69, Cl. 260-21.
Voegeli, Otto: *See—*
Chang, Hsu; Mee, Charles Denis; Voegeli, Otto; and Middelhoek, Simon,3,440,623.
Voegeli, Otto, to International Business Machines Corporation. Magnetic film memories with an intermediate conductive element as a drive line return path. 3,452,334, 6-24-69, Cl. 340-174.
Voegeli, Otto, to International Business Machines Corporation. Coupled film magnetic memory. 3,484,756, 12-16-69, Cl. 340-174.
Penoyer, Ralph F.; and Voegeli, Otto,3,440,626.
Voegtlen, Dieter: *See—*
Kellerer, Hermann; Weinfurter, Rudolf; Korber, Ulrich; and Voegtlen, Dieter,3,475,562.
Voegtly, Richard O.: *See—*
Huff, George F.; and Voegtly, Richard O.,3,434,458.
Voelcker, Herbert B., Jr., to Research Corporation. Signalling by angle coding. 3,428,917, 2-18-69, Cl. 332-11.
Voelcker, Sven: *See—*
Bester, Werner; Butzke, Fritz; Hennig, Fritz; Voelcker, Sven; Reier, Richard; and Rekewitz, Rudolf,3,450,836.
Butzke, Fritz; Voelcker, Sven; and Nitschke, Bruno,3,449,515.
Voelz, Fred L.: *See—*
Schoen, Walter F.; and Voelz, Fred L.,3,481,718.
Voelz, Frederick L.; and Schoen, Walter F., to Sinclair Research, Inc. Gasoline composition. 3,481,717, 12-2-69, Cl. 44-69.
Voelz, Frederick L.: *See—*
Mrstik, Adolph V.; Schoen, Walter F.; and Voelz, Frederick L.,3,481,716.
Voemel, Wolfgang: *See—*
Gall, Rudi; Stach, Kurt; and Voemel, Wolfgang,3,483,193.
Voeste, Theodor; and Schmidt, Hans-Joachim, to Metallgesellschaft Aktiengesellschaft. Process for the continuous hardening of unsaturated oils and fats. 3,444,221, 5-13-69, Cl. 260-409.
Voester, Reinhold; and Schmid, Wolfgang, to Vereinigte Baubeschlagfabriken Gretsch & Co. GmbH. Door closer for swing doors. 3,462,791, 8-26-69, Cl. 16-55.
Voetter, Ulrich E., to Schlumberger Technology Corporation. Methods and apparatus for determining effectiveness of sidewall engagement with well bore walls. 3,452,592, 7-1-69, Cl. 73-151.
Vofsi, David: *See—*
Asscher, Meir; Vofsi, David; and Katchalsky, Aharon,3,441,614.
Bloch, Rene; Katchalsky, Aharon; Kedem, Ora; and Vofsi, David,3,450,630.
Bloch, Rene; Vofsi, David; Kedem, Ora; and Katchalsky, Aharon,3,450,631.
Gassner, Saul Alexander; Hellinger, Esther; Katchalsky, Aharon; and Vofsi, David,3,420,790.
Voge, Andrew: *See—*
Brastow, Edgar R.; Voge, Andrew; and Schaberg, Richard R.,3,434,353.
Voge, Andrew, to Clary Corporation. Spring driven gyroscope. 3,434,354, 3-25-69, Cl. 74-5.12
Voge, Hans-Otto: *See—*
Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert,3,450,717.
Vogel A.G.: *See—*
Vogel, Bruno, 3,425,592.
Vogel, Arthur C.: *See—*
Belfield, Robert E.; and Vogel, Arthur C.,3,444,028.
Pall, David B.; Belfield, Robert Earle; Rosenberg, David J.; and Vogel, Arthur C.,3,446,684.
Vogel, Arthur E.; and Fultz, Palmer. Suspension system for vehicles. 3,480,288, 11-25-69, Cl. 280-6.1
Vogel, Arthur E.; and Fultz, Palmer. Control system for vehicle suspensions. 3,480,293, 11-25-69, Cl. 280-124.
Pall, David B.; Feindler, Klaus S.; and Vogel, Arthur,3,448,038.
Vogel, Bruno, to Vogel A.G. Container having a lid opening device. 3,425,592, 2-4-69, Cl. 220-54.
Vogel, Carl W.: *See—*
Hartz, Joseph M.; Miknaitis, Sigitas; and Vogel, Carl W.,3,435,160.
Vogel, Charles B., to Shell Oil Company. Velocity well logging. 3,424,268, 1-28-69, Cl. 181-0.5
Vogel, Charles B.: *See—*
Smith, Noyes D., Jr.; and Vogel, Charles B.,3,430,726.
Smith, Noyes D., Jr.; and Vogel, Charles B.,3,481,425.
Vogel, Clifford. Apparatus for the harvesting of tobacco. 3,478,865, 11-18-69, Cl. 198-204.
Vogel, Daniel H., Sr.; and Theriault, Gerald C., to Allegheny Ludlum Steel Corporation. Adjustable boring unit. 3,447,403, 6-3-69, Cl. 77-58.
Vogel, Ferdinand Lincoln, Jr, to Sprague Electric Company. Silicon nitride coating on semiconductor and method. 3,421,936, 1-14-69, Cl. 117-215.
Vogel, Frederick David, to United States of America, Navy. Apparatus for cleansing a contaminated chamber. 3,479,679, 11-25-69, Cl. 15-302.
Vogel, George E.: *See—*
Bennett, Donald R; Stark, Forrest O.; and Vogel, George E.,3,453,194.
Stark, Forrest O.; Valicenti, John A.; and Vogel, George E.,3,453,193.
Vogel, Gerhard; Geiger, Rolf; and Sturm, Karl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Preparations having protracted acth-effect and method for producing them. 3,483,291, 12-9-69, Cl. 424-179.
Vogel, Gerhard: *See—*
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard,3,462,421.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Vogel, Gerhard,3,474,091.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; Radscheit, Kurt; and Vogel, Gerhard,3,483,233.
Vogel, Gunter, to Kortenback & Rauh. Foldable umbrella frame. 3,455,312, 7-15-69, Cl. 135-23.
Vogel, Herward A.; and Oien, Hans T., to Minnesota Mining and Manufacturing Company. Anhydride-containing linear polyarylsulfones. 3,431,240, 3-4-69, Cl. 260-49.
Vogel, Karl E., to Improved Machinery Inc. Upflow digester containing means for separate removal of wash liquor and pulping liquor and method of pulping in said digester. 3,467,573, 9-16-69, Cl. 162-19.
Vogel, Karl Stuart: *See—*
Eigenfeld, Edmund Gerald; and Vogel, Karl Stuart,3,423,348.
Vogel, Ludwig: *See—*
Hamprecht, Guenther; Mohr, Rudolf; Fromm, Dieter; Schwarzmann, Matthias; and Vogel, Ludwig,3,458,511.
Vogel, Manfred Georg Roland; and Pfeiffer, Horst, to Hengstler, J. K. G., Zahlerfabrik, Aldingen, Kreis Tuttlingen. Setting device for presettable counters having actuating keys. 3,451,620, 6-24-69, Cl. 235-132.
Vogel, Paul W.; and Yaiko, Leonard, to Bird Provision Co. Method of preparing a cured meat product. 3,462,280, 8-19-69, Cl. 99-159.
Vogel, Reinhard Ernst, of 1/2 to Marxen, Friedrich. Shielding composition of cementitious material mixed with a metallic saturated fatty acid compound. 3,434,978, 3-25-69, Cl. 252-478.
Vogel, Robert E.; Hermanson, Bernard A.; and Kuykendall, Earl G., to Dual Jet Refrigeration Co. Removable cover for access opening of refrigerated cabinet. 3,465,536, 9-9-69, Cl. 62-158.
Vogel, Siegfried Friedrich, to International Business Machines Corporation. Non-inductive filament configuration. 3,461,338, 8-12-69, Cl. 313-309.
Vogel, Xaver, to Aktiengesellschaft Brown, Boveri & Cie. Withdrawal electrical switching apparatus. 3,458,672, 7-29-69, Cl. 200-50.
Vogel-Peterson Co.: *See—*
Magnuson, Raymond A.; and Brorson, Donald L., 3,433,549.
Vogele, Josef, to Hebel Gasbetonwerk G.m.b.H. Method for casting, lifting and setting blocks. 3,480,705, 11-25-69, Cl. 264-90.
Vogeler, Helmut: *See—*
Meier-Windhorst, Christian August; Schraud, Alfred; and Vogeler, Helmut,3,451,077.
Vogelfanger, Elliot A.; and Wallace, Thomas J., to Esso Research and Engineering Company. Stabilization of petroleum distillate fuels by oxidative treatment. 3,479,163, 11-18-69, Cl. 44-64.
Vogelfanger, Elliot: *See—*
Bank, Shelton; Vogelfanger, Elliot; Naslund, Lars A.; and Yates, David J. C.,3,428,448.
Vogeli, Ernst, to Sulzer Brothers Limited. Pressure gradient valve. 3,458,170, 7-29-69, Cl. 251-122.
Vogeli, Ernst, to Sulzer Brothers, Ltd. Cover plate for a pressure vessel. 3,460,710, 8-12-69, Cl. 220-55.
Vogelman, Joseph H.: *See—*
Bialo, John M.; Keiser, Edward F.; and Vogelman, Joseph H.,3,424,859.
Coe, Robert S.; and Vogelman, Joseph H.,3,482,140.

Vogelman, Joseph Herbert; Stephenson, Kenrick; and Feinerman, Bernard, to Chromalloy American Corporation. Remote telephone extension system. 3,476,882, 11-4-69, Cl. 179-41.
Vogelsang, Dietrich; Brock, Norbert; and Lenke, Hans-Dieter, to Asta-Werke AG., Chemische Fabrik. Acyl derivatives of proscillaridin A and process for the production thereof. 3,472,836, 10-14-69, Cl. 260-210.5
Vogelsang, Herbert; and Goepfert, Joseph, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Thermally insulated pipe. 3,473,575, 10-21-69, Cl. 138-149.
Vogelsang, Paul G., Jr., to Nalco Chemical Company. Scale inhibiting compounds. 3,462,365, 8-19-69, Cl. 210-58.
Vogelsang, Paul G., Jr.: *See—*
Stanford, James R.; and Vogelsang, Paul G., Jr.,3,477,956.
Vogelsang, Roger G. Lattice core/foundation for boat hulls. 3,444,568, 5-20-69, Cl. 9-6.
Vogelsang, Roger G. Pole and pile protector. 3,448,585, 6-10-69, Cl. 61-54.
Vogelsberg, Dieter, to Siemens Aktiengesellschaft. Apparatus for manufacturing lay-reversed communication cable. 3,481,127, 12-2-69, Cl. 57-34.
Vogelsberg, Walter H., to Ametek, Inc. Non-cumulative force electric motor or generator brush spring. 3,430,915, 3-4-69, Cl. 267-1.
Vogelzang, Edward J. W.: *See—*
Dijkstra, Tette J.; and Vogelzang, Edward J. W.,3,477,982.
Vogl, Norbert G., Jr.: *See—*
Simkins, Quinton W.; and Vogl, Norbert G., Jr.,3,471,839.
Vogl, Otto F., to Du Pont de Nemours, E. I., and Company. Process for polymerizing chloral. 3,454,527, 7-8-69, Cl. 260-67.
Vogl, Thomas P.; and Pegis, Richard J., to Westinghouse Electric Corporation. Optical apparatus for use in infrared radiation. 3,468,594, 9-23-69, Cl. 350-1.
Vogler, Karl, to Hoffmann-La Roche Inc. Long-chain aliphatic esters of lysine and other basic amino acids and peptides thereof. 3,433,779, 3-18-69, Cl. 260-112.5
Vogler, Karl, to Hoffmann-La Roche Inc. Sulfonamides bearing a basic amino acid residue. 3,455,911, 7-15-69, Cl. 260-239.65
Vogt, Alfred, to Wagner, Josef, Ing., Firma. Pitch control apparatus for helicopter rotors. 3,448,810, 6-10-69, Cl. 170-135.26
Vogt, Alfred: *See—*
Ospelt, Gustav; Vogt, Alfred; and Gutmann, Hellmut,3,460,519.
Vogt, Andre. Watch dial having time signs welded thereto. 3,474,619, 10-28-69, Cl. 58-127.
Vogt Appliance Corporation: *See—*
Vogt, Edwin M., 3,454,273.
Vogt, Clarence W. Carton. 3,446,418, 5-27-69, Cl. 229-40.
Vogt, Clarence W. Feeder for and method of feeding flowable solids. 3,450,441, 6-17-69, Cl. 302-49.
Vogt, Clarence W. Packaging apparatus and flow control valve therefor. 3,467,151, 9-16-69, Cl. 141-67.
Vogt, Clarence W. Method of and apparatus for filling preformed cartons with predetermined portions of materials. 3,468,095, 9-23-69, Cl. 53-24.
Vogt, Clarence W. Curtain depositing apparatus. 3,468,099, 9-23-69, Cl. 53-140.
Vogt, Clarence W. Package forming and filling apparatus. 3,481,283, 12-2-69, Cl. 107-4.
Vogt, Edwin M., to Vogt Appliance Corporation, mesne. Exercise device of the twist board type. 3,454,273, 7-8-69, Cl. 272-57.
Vogt, Edwin, to International Business Machines Corporation. Multiplex data transmission system using orthogonal transmission waveforms. 3,450,840, 6-17-69, Cl. 179-15.
Vogt, Eugen: *See—*
Siepmann, Walter, 3,473,785.
Vogt, Gerd: *See—*
Landgraf, Helmut; and Vogt, Gerd,3,464,485.
Vogt, Gottfried F., to United States of America, Army. Electronic servo system. 3,435,454, 3-25-69, Cl. 343-100.
Vogt, Harold W., Jr., to Mallory, P. R., & Co., Inc. Combined timer and rotary selector switch. 3,446,922, 5-27-69, Cl. 200-38.
Vogt, Henry, Machine Company, Inc.: *See—*
Rich, Joseph G.; and Rich, Robert S., 3,443,548.
Vogt, Henry, Machine Company, Incorporated: *See—*
Heuser, Henry V., 3,428,173.
Vogt, Herbert, to Siemens Aktiengesellschaft. Semiconductor assemblies including semiconductor units with cooling plates therefor. 3,436,603, 4-1-69, Cl. 317-100.
Vogt, Herbert, to Siemens Aktiengesellschaft. Modular unit for applying pressure between electrical contacts and semiconductor cells. 3,474,306, 10-21-69, Cl. 317-234.
Vogt, Herwart C., to Wyandotte Chemicals Corporation. Flame-resistant polyurethane compositions. 3,445,405, 5-20-9, Cl. 260-2.5
Vogt, Herwart C.: *See—*
Davis, Pauls; and Vogt, Herwart C.,3,456,005.
Davis, Pauls; and Vogt, Herwart C.,3,466,305.
Davis, Pauls; and Vogt, Herwart C.,3,478,110.
Vogt, Howard W.: *See—*
Bard, Charleton C.; and Vogt, Howard W.,3,451,817.
Vogt, Jeary R., to International Business Machines Corporation. Blood pressure measuring system with Korotkoff sound detector. 3,450,131, 6-17-69, Cl. 128-2.05
Vogt, Joseph B. Temperature indicating device. 3,452,706, 7-1-69, Cl. 116-102.
Vogt, Kurt, to Omega Louis Brandt & Frere S.A. Magnetic roller clutch. 3,432,016, 3-11-69, Cl. 192-45.
Vogt, Paul R., to North American Rockwell Corporation. Injection throttling. 3,453,827, 7-8-69, Cl. 60-204.
Vogt, Wilhelm; and Bahr, Werner, to Klein, Arnold. Mechanism for equalizing the force transmission. 3,474,570, 10-28-69, Cl. 49-200.
Vogt, Wilhelm; and Glaser, Hermann, to Knapsack Aktiengesellschaft. Process for the manufacture of nitrilo-tris- methylene phosphonic acid. 3,476,799, 11-4-69, Cl. 260-502.5
Vogt, Wilhelm; and Richtzenhain, Hermann, to Dynamit Nobel Aktiengesellschaft. Production of β-halo ethers. 3,475,497, 10-28-69, Cl. 260-611.
Vogt, Wilhelm: *See—*
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; and Joest, Herbert,3,432,544.
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert,3,465,053.
Sennewald, Kurt; Vogt, Wilhelm; and Baader, Herbert,3,465,054.
Sennewald, Kurt; Vogt, Wilhelm; and Glaser, Hermann,3,441,601.
Vogtlin, Karl, to Kienzle Apparate G.m.b.H. Tachographs for automobiles. 3,434,152, 3-18-69, Cl. 346-18.
Vogue Instrument Corporation: *See—*
Geissler, Ambros; and Singer, Edwin, 3,480,931.
Mason, Harry L., 3,422,413.
Vohler, Otto; and Martina, Renato, to Siemens Planiawerke A.G. fur Kohlefabrikate. Method of producing porous carbon bodies of stratified constitution from cellulosic particles. 3,468,718, 9-23-69, Cl. 136-122.
Vohralik, Vaclav: *See—*
Simon, Hermann; Vohralik, Vaclav; Denson, John Michael; and Farey, Keith Horace,3,473,990.
Vohringer, Karl. Valve arrangement. 3,461,909, 8-19-69, Cl. 137-495.
Vohwinkel, Kurt: *See—*
Haas, Friedrich; Vohwinkel, Kurt; Nutzel, Karl; and Sutter, Hubert,3,457,218.
Voice, Terence W., to USM Corporation. Grooved eyelets. 3,467,996, 9-23-69, Cl. 24-141.
Voige, Raymond C., to Motorola, Inc. Cathode ray tube beam blanking circuit. 3,446,915, 5-27-69, Cl. 178-7.5
Voigt, Du Monte Otto; and Avicola, Richard, to Hoffman Products Corporation. Dual channel automatic control circuit. 3,467,770, 9-16-69, Cl. 178-5.4
Voigt, Gottfried O.: *See—*
Gretter, Ralph W.; Spollen, Francis J.; and Voigt, Gottfried O.,3,434,297.
Voigt, H. William, Jr., to United States of America, Army. Castable explosive containing TNT and a reaction product of a diisocyanate and 1,4 butylene- oxide polyglycol. 3,447,980, 6-3-69, Cl. 149-19.
Voigt, H. William, Jr.: *See—*
Picard, Jean P.; and Voigt, H. William, Jr.,3,434,895.
Voigt, Hans, Dr. med., Chem. -Pharm. Fabrik: *See—*
Voigt, Hans, 3,441,557.
Voigt, Hans: *See—*
Eder, Franz X.; and Voigt, Hans,3,478,232.
Voigt, Hans, to Voigt, Hans, Dr. med., Chem. -Pharm. Fabrik. Dialkylaminoalkyl-hesperidin containing compounds. 3,441,557, 4-29-69, Cl. 260-210.
Voigt, Herbert Frederick: *See—*
Krauer, Otto Albert; Voigt, Herbert Frederick; and Schor, Harvey Ronald,3,433,326.
Voigt, Max H.: *See—*
Chmura, Theodore S.; and Voigt, Max H.,3,420,179.
Voigt, Max H., to AMBAC Industries, Incorporated. Fuel injection pump. 3,440,964, 4-29-69, Cl. 103-2.
Voigt, Robert H., to Dynatron Incorporated. Smoke, heat and excessive moisture multiple alarm device. 3,469,250, 9-23-69, Cl. 340-237.
Voigt, Robert H.; and Lowe, David W., to Dynatron, Incorporated, mesne. Electro-mechanical actuator. 3,425,009, 1-28-69, Cl. 335-177.
Voigt, Wilhelm, to Meto-Gesellschaft Oscar Kind K.G. Labelling apparatus. 3,427,214, 2-11-69, Cl. 156-361.
Voigt, Wilhelm; and Kind, Oscar. Label dispenser. 3,425,346, 2-4-69, Cl. 101-292.
Voigtlander A.G.: *See—*
Bihlmaier, Oskar, 3,443,498.
Bihlmaier, Oskar; Greger, Paul; and Doring, Erwin, 3,474,714.
Bihmaier, Oskar, 3,443,497.
Donitz, Dieter, 3,421,815.
Eggert, Joachim; Tronnier, Ernst; and Schuhmann, Paul, 3,420,602.
Fischer, Oskar; and Golombek, Horst, 3,481,261.
Kinder, Gotthard, 3,477,355.
Parke, Friedrich; and Golombek, Horst, 3,459,110.
Rehn, Heinz; Papke, Friedrich; and Greger, Paul, 3,484,053.
Zillmer, Erich, 3,419,980.

Zillmer, Erich, 3,419,981.
Zillmer, Erich, 3,420,607.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt, to Boehringer, C. F., & Soehne GmbH. Diethers of helveticoside and helveticosol. 3,462,528, 8-19-69, Cl. 424-182.
Voigtlander, Wolfgang; Kaiser, Fritz; Schaumann, Wolfgang; and Stach, Kurt, to Boehringer, C. F., & Soehne GmbH. Cyclic ethers of cardenolide digitoxoside. 3,476,742, 11-4-69, Cl. 260-210.5
Voigtlander, Wolfgang: *See*—
Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang,3,458,628.
Kaiser, Fritz; Schaumann, Wolfgang; and Voigtlander, Wolfgang,3,471,614.
Voiles, Kenneth E.: *See*—
Frankeny, Julius L.; and Voiles, Kenneth E.,3,451,467.
Voisin, Eugene J.: *See*—
Helffer, Bernard Francois; Raisin, Jean-Pierre A.; and Voisin, Eugene J.,3,451,603.
Voissem, Marvin C.; and Ferron, James C., to Badger Plug Company. Core assembly with positioning pad. 3,454,155, 7-8-69, Cl. 206-58.
Voit, Edward J. Zipper kit. 3,456,305, 7-22-69, Cl. 24-205.11
Voit, J. M., G.m.b.H.: *See*—
Mittag, Walter, 3,466,940.
Voit, W. J., Rubber Corporation: *See*—
Henderson, Robert Bruce, 3,475,027.
Holman, Rudolph George, 3,459,425.
Voith Getriebe KG: *See*—
Bonsch, Gustav; and Nolz, Klaus, 3,478,516.
Gsching, Wilhelm, 3,470,825.
Kross, Johann, 3,456,486.
Mlacker, Siegfried; Mack, Hans; and Karl, Lorenz, 3,426,535.
Muller, Helmut; and Mlacker, Siegfried, 3,481,148.
Voith, J. M., GmbH.: *See*—
Chiel, Christian, 3,441,476.
Schiel, Christian, 3,452,414.
Schiel, Christian; and Bischoff, Gunther, 3,478,991.
Strscheletzly, Michael; and Matthias, Heinz-Bernd, 3,421,446.
Voitik, Robert M., to Continental Illinois National Bank and Trust Company of Chicago. Seal for oscillating shafts. 3,442,516, 5-6-69, Cl. 277-39.
Voitik, Robert M., to Continental Illinois National Bank and Trust Company of Chicago, trustee under the Cartridge Type Seal Liquidation Trust. Liquid sensing seal for rotating shaft. 3,475,033, 10-28-69, Cl. 277-28.
Voitik, Robert M., to Continental Illinois National Bank and Trust Company of Chicago. Vented labyrinth seal. 3,480,284, 11-25-69, Cl. 277-26.
Voitik, Robert M.; and Yost, Kermit D., to Continental Illinois National Bank and Trust Company of Chicago, as trustee. Pressure relieved labyrinth. 3,443,815, 5-13-69, Cl. 277-83.
Voituron, Georges: *See*—
Osterrieth, Michel; and Voituron, Georges,3,476,698.
Vokes, Frank; and Benzing, James A., to U.S. Plywood-Champion Papers Inc. Reclosable carton. 3,436,893, 4-8-69, Cl. 53--021
Voland, Elmo W.; and Wiser, Joseph E., to Mallory, P. R., & Co., Inc. Sequence control means. 3,446,923, 5-27-69, Cl. 200-38.
Voland, Elmo W.: *See*—
Wiser, Joseph E.; and Voland, Elmo W.,3,424,876.
Volans, Peter; and Changani, Pushpkumar Dewanmal, to Monsanto Chemicals Limited. Method and apparatus for fibrillation. 3,486,674, 12-30-69, Cl. 225-3.
Volchek, Grigory Movshevich: *See*—
Averbukh, Mark Borisovich; Volchek, Grigory Movshevich; Gora, Vladimir Epifanovich; Elinson, Isaak Markovich; Leonidov, Nikolai Konstantinovich; Molochnikov, Nikolai Vladimirovich; Kheifets, Ber Simkhovich; and Shpigel, Alexandr-Sever Julievich,3,459,311.
Volckening, Inc.: *See*—
Norwood, James C., 3,450,175.
Volek, Charles W.: *See*—
Matthews, Charles S.; Van Meurs, Pieter; and Volek, Charles W.,3,455,391.
Volenik, Jiri: *See*—
Kyr, Ladislav; Volenik, Jiri; and Raba, Frantisek,3,478,257.
Volesky, Radovan: *See*—
Storek, Jaroslav; Wiedermann, Jiri; Hrdina, Jan; and Volesky, Radovan,3,457,716.
Volfenzon, Shmul Ovshievich: *See*—
Rusanovich, Nikolai Grigorievich; Dmitriev, Ivan Sergeevich; Korobov, Yakov Vasilievich; Volfenzon, Shmul Ovshievich; Kostin, Boris Jurievich; Zaichik, Evegeny Bentsionovich; and Emelyanov, Vasily Semenovich,3,450,376.
Volgstadt, Frank R.: *See*—
Geble, Paul H.; Smolin, Edwin M.; Wang, Tze Seng; and Volgstadt, Frank R.,3,457,219.
Volk, Andre: *See*—
Brion, Jacques; Cousin, Michel; Talejkinski, Wulf; and Volk, Andre,3,479,800.
Volk, David. Method and apparatus for determining the eccentricity of a conicoid surface. 3,482,904, 12-9-69, Cl. 351-6.
Volk, David. Aspheric corneal contact lens series. 3,482,906, 12-9-69, Cl. 351-160.
Volk, David. Apparatus for measuring the eccentricity of an approximately conicoid surface. 3,486,812, 12-30-69, Cl. 351-6.
Volk, Henry: *See*—
Slykhouse, Thomas E.; Werth, Kenneth E.; and Volk, Henry,3,446,681.
Volk, Herbert F.; and Mercuri, Robert A., to Union Carbide Corporation. Iridium coated graphite. 3,446,607, 5-27-69, Cl. 29-195.
Volk, Rodney H.; and Reiste, David J., to Trane Company, The. Unidirectional heat pump system. 3,421,339, 1-14-69, Cl. 62-159.
Volk, William. Slide rule. 3,485,447, 12-23-69, Cl. 235-70.
Volkel, Benn F. Connecting rod. 3,482,467, 12-9-69, Cl. 74-579.
Volker, Helmut, to Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kassel-und Waggonbau. Apparatus for separating drip oil from bilge water. 3,425,556, 2-4-69, Cl. 210-104.
Volker, John F., to Wiegand, Edwin L., Company. Electrical connector. 3,458,648, 7-29-69, Cl. 174-88.
Volker, Theodore; and Schindelmann, Frika, to Lonza Ltd.Preparation of methacrylic compounds by dehydration of α-hydroxybutyric acid compounds. 3,487,101, 12-30-69, Cl. 260-486.
Volker, Ulrich; Fabian, Heinz; and Mertl, Klaus, to Jurid Werke GmbH. Sintered friction disc with projections. 3,485,331, 12-23-69, Cl. 192-107.
Volker, Ulrich; and Gerloff, Gunter, to Jurid Werke G.m.b.H. Sintered friction material. 3,437,458, 4-8-69, Cl. 29-182.5
Volkl, Walter, to Siemens Aktiengesellschaft. Method of making capacitors having improved capacitor constancy. 3,419,948, 1-7-69, Cl. 29-25.42
Volkmann, Dieter. Valve assembly for a pneumatically actuated fastener driving tool. 3,437,013, 4-8-69, Cl. 91-461.
Volkmann, Dieter. Hand operated pneumatic fastener driving device. 3,464,614, 9-2-69, Cl. 227-130.
Volkmann, Dieter. Magazine of a portable stapling apparatus. 3,469,758, 9-30-69, Cl. 227-120.
Volkmann, Josef F.: *See*—
Mason, Kurt E.; and Volkmann, Josef F.,3,481,244.
Volkmann, Werner, to Siemens Aktiengesellschaft. System for controlling thyristors by periodically recurring firing pulses. 3,435,254, 3-25-69, Cl. 307-252.
Volkner, Wolfgang; Sonksen, Arno; and Schultz, Herbert, to Licentia Patent-Verwaltungs-G.m.b.H., and Hamburger Flugzeugbau G.m.b.H. Aircraft de-icing system. 3,420,476, 1-7-69, Cl. 244-134.
Volkner, Wolfgang: *See*—
Hermes, Heinz; and Volkner, Wolfgang,3,453,415.
Volks, Herbert; and Ouellette, Clarence P., to En Mail Machine Corporation. Envelope blank forming machine. 3,468,227, 9-23-69, Cl. 93-63.
Voll, Samuel T. Nightstick having pressurized spray. 3,432,077, 3-11-69, Cl. 222-78.
Voller, Norman L.: *See*—
Schwartz, Natalie Pels; Voller, Norman L.; Hamman, Denver C.; and Chapman, Robert E.,3,465,926.
Voller, Ronald L. Method for forming a flexible plastic bag having an integral valve. 3,461,015, 8-12-69, Cl. 156-306.
Vollers, Gary L., to Pactra Incorporated. Destructible cap for aerosol containers. 3,460,708, 8-12-69, Cl. 220-27.
Vollhardt, Frohmut, to Schmidt'sche Heissclampf Gesellschaft m.b.H. Heat exchanger especially for the cooling of hot gases. 3,433,298, 3-18-69, Cl. 165-134.
Vollinger, Heinz: *See*—
Bende, Friedrich; Vollinger, Heinz; and Pohl, Kurt,3,476,804.
Vollinger, Heinz; Pohl, Kurt; and Bende, Friedrich, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Adipic acid recovery from nitric acid oxidation. 3,476,805, 11-4-69, Cl. 260-531.
Vollink, Willard L.: *See*—
Clausi, Adolph S.; and Vollink, Willard L.,3,453,115.
Vollink, Willard L.; and Ver Steeg, Melvin A., to General Foods Corporation. Preparation of a coated ready-to-eat cereal. 3,484,250, 12-16-69, Cl. 99-83.
Vollmann, Hansjorg: *See*—
Korbanka, Helmut; Tauber, Gunther; and Vollmann, Hansjorg,3,442,872.
Vollmar, Harold J.: *See*—
Osterberg, Carl T., 3,442,247.
Vollmer, Donn H. Moisturizer for plants. 3,443,385, 5-13-69, Cl. 61-13.
Vollmer, Eva Maria: *See*—
Peter Van Dillen, Paul Joan; Vollmer, Eva Maria; Kallfass, Herbert; and Zimmermann, Max,3,428,488.
Vollmer, George R., Jr., to General Dynamics Corporation. X-ray inspection device with specimen carrying means rotationally mounted on vertically disposed carriage wheel. 3,454,762, 7-8-69, Cl. 250-52.
Vollmer, Herbert: *See*—
Ibing, Guenther; Schirrmacher, Hermann; Vollmer, Herbert; Boemelburg, Josef; and Schwall, Fritz,3,434,807.
Vollmer, John H., to Perkin-Elmer Corporation, The. Germanium hollow cathode assembly for lamps. 3,482,138, 12-2-69, Cl. 313-311.

Vollmer, John W.: *See—*
Sebens, Carl R.; and Vollmer, John W.,3,422,301.
Vollmer, John W., to Perkin-Elmer Corporation, The. Lamps using spherical cathodes. 3,474,280, 10-21-69, Cl. 313-310.
Vollmer, John W., to Perkin-Elmer Corporation, The. Alloy for hollow cathode lamp. 3,487,254, 12-30-69, Cl. 313-218.
Vollmer, Jurgen: *See—*
Schroter, Kurt; Nienhaus, Clemans; Vollmer, Jurgen; and Burghardt, Alfons,3,465,327.
Vollmer, Rudolf, to Industrie-Werke Karlsruhe Aktiengesellschaft. Arrangement for an automatic adjustment of physical values. 3,479,003, 11-18-69, Cl. 251-58.
Vollmer, Udo, to Vollmer Werke Maschinenfabrik G.m.b.H. Band saw sharpening device. 3,460,407, 8-12-69, Cl. 76-37.
Vollmer Werke Maschinenfabrik G.m.b.H.: *See—*
Vollmer, Udo, 3,460,407.
Vollmer, William F., Jr.: *See—*
Wong, Howard F.; Liddell, Donald W.; and Vollmer, William F., Jr.,3,421,151.
Volokhonsky, Lev Avramovich: *See—*
Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Volokhonsky, Lev Avramovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Scherbakov, Konstantin Alexandrovich; and Katsevich, Leonid Savich,3,483,917.
Volovich, Zelman Moiseevich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.
Volpatti, Ramon: *See—*
Bashenow, Alexander; and Volpatti, Ramon,3,469,529.
Volpe, Richard L., to Marshall, John Donald, and. Camming beat-up Mechanism for looms. 3,425,459, 2-4-69, Cl. 139-190.
Volpe, Rocco P.: *See—*
Lindemann, Martin K.; and Volpe, Rocco P.,3,440,199.
Lindemann, Martin K.; and Volpe, Rocco P.,3,440,200.
Volpi AG: *See—*
Brachvogel, Heinz, 3,450,469.
Volpin, Alexander S. Stem construction for rising-stem gate valves. 3,428,297, 2-18-69, Cl. 251-355.
Volta, Giuseppe: *See—*
Perona, Giovanni; and Volta, Giuseppe,3,478,412.
Voltronics Corporation: *See—*
Blickstein, Martin J.; and Mittler, Martin A., 3,476,994.
Blickstein, Martin J.; and Mittler, Martin A., 3,483,450.
Voltz, Jacques: *See—*
Bossard, Werner; Favre, Francois; Wegmuller, Hans E.; and Voltz, Jacques,3,471,468.
Voltz, Jacques, to Geigy, J. R., A.G. Pyrazolone monoazo dyes containing indole or carbazole groups. 3,435,022, 3-25-69, Cl. 260-147.
Voltz, Jacques; and Hausermann, Heinrich, to Geigy, J. R., A.G. Polyester and polyamide fiber dyeing with 7-amino-coumarins. 3,458,880, 8-5-69, Cl. 8-162.
Volz, J. Roland, and Bartenfelder, John L.: *See—*
Hartsock, William H., 3,425,157.
Vom Brack, Theodore F.; and Novak, Paul A., to Warwick Electronics Inc. Support connector assembly for pivotally mounted display tube. 3,462,112, 8-19-69, Cl. 248-349.
V.O.M. Corporation: *See—*
Ogle, Robert W., 3,467,097.
vom Dorp, Walter; and Eversberg, Hans, to Mannesmann-Meer Aktiengesellschaft. Stopper rod for tube rolling mills. 3,456,475, 7-22-69, Cl. 72-209.
Vomar Products, Inc.: *See—*
Van Ostrand, Herbert P., 3,419,978.
Vometic N.V.: *See—*
van Munster, Lourens B., 3,439,902.
Vona, Joseph A.; and Hensch, Edward J., to Celanese Corporation. Stabilizer for vinyl chloride polymers. 3,452,054, 6-24-69, Cl. 260-348.
von Albedyll, Joachim; and Hennig, Fridolin, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with built-in flash unit. 3,456,567, 7-22-69, Cl. 95-11.5
Von Albedyll, Joachim: *See—*
Wick, Richard; Wagner, Karl; Von Albedyll, Joachim; and Renner, Otfried,3,454,755.
Wick, Richard; Wagner, Karl; von Albedyll, Joachim; Renner, Otfried; and Hennig, Fridolin,3,466,992.
Von Ardenne, Manfred; Heller, Jurgen; Jager, Gerard; and Rumberg, Heinz. Lifting device for lifting a patient treated in a bathtub. 3,457,569, 7-29-69, Cl. 4-185.
von Arland, Otto Czerweny; Oswald, Heinrich; and Eitl, Stefan. Stacking arrangement for pieces of sheet material. 3,484,102, 12-16-69, Cl. 271-87.
von Bebenburg, Walter: *See—*
Thiele, Kurt; and von Bebenburg, Walter,3,481,943.
Von Berg, Richard E., to Transicold Corporation. Pod mount transport refrigeration system. 3,421,340, 1-14-69, Cl. 62-239.
von Bichowsky, Foord. Process for converting alkali metal titanates into their pure titanium dioxide pseudomorphs. 3,424,555, 1-28-69, Cl. 23-202.
Von Bolhar, Edgar J., to Ellicott Machine Corporation. Bucket-wheel cutter for dredges. 3,476,498, 11-4-69, Cl. 299-8.
von Bonin, Wulf, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of water-in-oil emulsions. 3,442,842, 5-6-69, Cl. 260-29.2
Von Bonin, Wulf; and Zenner, Karl-Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. Crosslinkable polymer system and process for the preparation thereof. 3,474,061, 10-21-69, Cl. 260-29.6
Von Brachel, Hanswilli; and Engelhardt, Fritz, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of polymers. 3,476,717, 11-4-69, Cl. 260-78.5
Von Brachel, Hanswilli; and Hintermeier, Karl, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of aryl-substituted sulfones. 3,448,111, 6-3-69, Cl. 260-294.8
Von Brachel, Hanswilli; and Hintermeier, Karl, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of araliphatic sulfoxides. 3,463,821, 8-26-69, Cl. 260-607.
von Brachel, Hanswilli; and Kindler, Horst, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of methylamino-s-triazines. 3,424,752, 1-28-69, Cl. 260-249.6
von Brachel, Hanswilli: *See—*
Ritter, Heinrich; Heinrich, Ernst; von Brachel, Hanswilli; and Kindler, Horst,3,487,066.
Von Bradsky, Otokar: *See—*
Schwarz, Julius; Dokes, George E.; Von Bradsky, Otokar; and Goodman, Sidney J.,3,479,780.
Von Bramer, Paul T.; and Hequembourg, Charles W., to Eastman Kodak Company. Hydrogenated polymerized DAC-B. 3,437,629, 4-8-69, Cl. 260-31.8
Voncken, Josef H.: *See—*
Gouw, Lam H.; Voncken, Josef H.; Frielingsdorf, Hans; and Powers, Gene W.,3,480,507.
Vonco Corporation, Inc.: *See—*
Fraser, James H., 3,458,327.
Von Daehne, Welf: *See—*
Godtfredsen, Wagn Ole; and Von Daehne, Welf,3,463,798.
Von den Hoff, Johan P. H.: *See—*
Vermijs, Winfried J. W.; and Von den Hoff, Johan P. H.,3,437,656.
von der Crone, Jost: *See—*
Burdeska, Kurt E.; von der Crone, Jost; Menasse, Raphael; and Pugin, Andre,3,424,767.
Von Der Decken, Claus-Benedikt: *See—*
Huhndorf-Richter, Bernhard; Von Der Decken, Claus-Benedikt; and Ohlig, Heinz,3,439,804.
Von Der Emden, Wolfgang; and Kocher, Ernst-Ulrich, to Farbenfabriken Bayer Aktiengesellschaft. Trioxane copolymers and process of producing the same. 3,436,374, 4-1-69, Cl. 260-67.
von der Emden, Wolfgang; Simmler, Walter; and Wagner, Kuno. Farbenfabriken Bayer Aktiengesellschaft Process for the production of silicon-containing trioxane mixed polymers. 3,483,161, 12-9-69, Cl. 260-46.5
von der Emden, Wolfgang: *See—*
Kocher, Ernst-Ulrich; von der Emden, Wolfgang; Glaser, Heinrich; and Holtschmidt, Hans,3,483,165.
Kocher, Ernst-Ulrich; Wagner, Kuno; Von Der Emden, Wolfgang; and Dankert, Gerhard,3,477,992.
von der Linde, Hans-Jurgen; and Haberich, Wilhelm, to Braunschweigische Maschinenbauanstalt. Molasses purification. 3,481,783, 12-2-69, Cl. 127-46.
von der Lippe, Robert: *See—*
Mueller, Walter; Alfs, Hugo; and von der Lippe, Robert,3,433,529.
Vonderhaar, Arthur W.: *See—*
Meckley, Daniel G., III; and Vonderhaar, Arthur W.,3,423,568.
Vonderhaar, Arthur W., to Tappan Company, The. Windowed door for self-cleaning oven. 3,450,126, 6-17-69, Cl. 126-200.
Vonderhaar, Arthur W., to Tappan Company, The. Oven rack system. 3,454,744, 7-8-69, Cl. 219-414.
von Doehren, Hans: *See—*
Jung, Margarete; Becker, Harald; and von Doehren, Hans,3,479,276.
Von Doenhoff, Carl: *See—*
Wilson, Bonum S., Jr.; and Von Doenhoff, Carl,3,459,566.
Vondra, Benedict L.: *See—*
Ellison, Charles V.; and Vondra, Benedict L.,3,429,671.
Vondracek, Miloslav: *See—*
Culik, Karel; Palkoska, Josef; Vondracek, Miloslav; Skoda, Jan; and Herold, Milos,3,429,780.
Vondracek, Miloslav; Slezak, Josef; Herold, Milos; and Culik, Karel, to Spofa Sdruzeni Podniku Pro Zdravotnickou Vyrobu. Method of producing tetracycline. 3,425,911, 2-4-69, Cl. 195-80.
Vondracek, Miloslav; Toscaniova, Eva; and Hoffman, Josef, to SPOFA, Spojene pidniky pro zdravotnickou vyrobu. Metal com-

plexes of aldehyde-bacitracin adducts. 3,481,916, 12-2-69, Cl. 260-112.5
Von Drachenfels, Heinrich-Jurgen Freiherr, to Bahlsen, Werner. Coating process and apparatus. 3,470,831, 10-7-69, Cl. 107-54.
Vondrak, Jiri: *See*—
Balej, Jan; Paseka, Ivo; Vondrak, Jiri; and Regner, Albert,3,431,193.
Vondran, Daniel J., to Motorola, Inc. Spring clip fastener. 3,433,121, 3-18-69, Cl. 85-36.
von Ehrenstein, Dietes; and Hess, David C., to United States of America, Atomic Energy Commission. Method for generating a beam of ions wherein the ions are completely polarized. 3,461,294, 8-12-69, Cl. 250-84.
Von Eiff, Ulrich Christof; and Ugalde, Angel Lira. Industrial mixer. 3,420,456, 1-7-69, Cl. 241-46.04
von Erdberg, Robert, to Du Pont de Nemours, E. I., and Company. Extrusion hopper. 3,480,998, 12-2-69, Cl. 18-12.
Von Esch, Anne Mary: *See*—
Crovetti, Aldo J.; and Von Esch, Anne Mary,3,468,884.
Von Esch, Anne Mary; and Crovetti, Aldo J., to Abbott Laboratories. Nitrofuryl substituted oxadiazoles. 3,478,049, 11-11-69, Cl. 260-307.
Von Falkai, Bela: *See*—
Rellensmann, Wolfgang; Von Falkai, Bela; Reichle, Alfred; and Schnell, Hermann,3,454,526.
von Falkenstei, Rainer: *See*—
MacKellar, Donald G.; Blumbergs, John H.; and von Falkenstei, Rainer,3,462,480.
von Falkenstein, Rainer: *See*—
Mac Kellar, Donald G.; Blumbergs, John H.; and von Falkenstein, Rainer,3,485,869.
Von Feldt, John L., to International Business Machines Corporation. Hammer firing circuit for impact printers. 3,423,641, 1-21-69, Cl. 317-137.
Von Fellner, Michael: *See*—
Weber, Herbert; Lange, Gunter; Muller, Hubert; Von Fellner, Michael; and Heer, Roland,3,435,376.
Von Finck, Georg: *See*—
Kirkschnek, Helmut; Von Finck, Georg; and Quaedvlieg, Mathieu,3,420,703.
Kirschnek, Helmut; von Finck, Georg; and Quaedvlieg, Mathieu,3,467,487.
von Fraunberg, Hans-Ch.: *See*—
Wagner, Heinrich; and von Fraunberg, Hans-Ch.,3,447,394.
Von Freyhold, Helmut, to Philadelphia Quartz Company. Alkali metal silicate binder for zinc-rich paints. 3,475,185, 10-28-69, Cl. 106-1.
von Funk, Irwin. Lateral take-off for air conveyors. 3,442,556, 5-6-69, Cl. 302-28.
von Gohren, Edward V. Apparatus for mounting a rocketsonde thermistor. 3,465,985, 9-9-69, Cl. 244-1.
von Hagen, Wolf-Rudiger, to Union Special Maschinenfabrik G.m.b.H. Thread cutoff device for lockstitch sewing machines. 3,424,116, 1-28-69, Cl. 112-252.
Von Hippel, Hans-Joachim. Mobile mining roof support and conveyor. 3,438,210, 4-15-69, Cl. 61-45.
von Hippel, Hans Joachim. Longwall mining machine with cutting elements on rotated and reciprocated screw conveyor. 3,445,139, 5-20-69, Cl. 299-43.
von Hoevel, Edmund H., to Hanlon & Wilson Company. Multiple segment V-type flange slip joint coupling. 3,455,582, 7-15-69, Cl. 285-302.
von Horst, Irmgard F.: *See*—
Von Horst, Louis Anton Freiherr; and Kellner, Maximilian, 3,436,319.
Von Horst, Louis Anton Freiherr; and Kellner, Maximilian, von Horst, Irmgard F. Thin layer steam distillation of hop oil extract. 3,436,319, 4-1-69, Cl. 203-89.
Vonk, Abraham, to Scholten's, W. A., Chemische Fabrieken N.V. Process for hydrolyzing starch. 3,484,287, 12-16-69, Cl. 127-38.
Vonk, Johnny, to Inland Steel Company. Method of constructing a liquid-tight wall for shipping containers. 3,463,059, 8-26-69, Cl. 93-77.
Von Kaenel, John Clifford; Anderson, Gordon Campbell; and Seymore, Stephen David, Jr., to Maremont Corporation. Combers. 3,479,699, 11-25-69, Cl. 19-223.
von Kamp, Harold E.: *See*—
Antlfinger, George J.; and von Kamp, Harold E.,3,444,122.
Von Kemenczky, Miklos: *See*—
Schweizer, Antoinette M., 3,455,359.
von Koch, Arwed: *See*—
Katz, Klaus; and von Koch, Arwed,3,444,785.
von Konsky, Robert H.: *See*—
Clark, Frank E.; Pugh, Clyde C.; and von Konsky, Robert H.,3,430,416.
von Krusenstierna, Otto; Lindholm, Ingemar; and Malmberg, Gunnar, to Allmanna Svenska Elektriska Aktiebolaget. Fuel cell electrode. 3,432,353, 3-11-69, Cl. 136-86.
Von Kutepow, Nikolaus; Bittler, Knut; and Neubauer, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Carbonylation of olefinically unsaturated compounds. 3,437,676, 4-8-69, Cl. 260-468.
Von Kutepow, Nikolaus; Bittler, Knut; Neubauer, Dieter; and Reis, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Carbonylation of olefinically or acetylenically unsaturated compounds. 3,455,989, 7-15-69, Cl. 260-468.
von Langendorff, Vitmar: *See*—
Bitzer, Martin; and von Langendorff, Vitmar,3,428,994.
Hambly, Wesley G.; and von Langendorff, Vitmar,3,433,513.
Von Linde, Robert. Radiation heating apparatus. 3,447,531, 6-3-69, Cl. 126-94.
Von Meyer, Walter G. Timing device. 3,465,516, 9-9-69, Cl. 58-144.
von Morgen, Kurt: *See*—
Kateman, Gerrit; von Morgen, Kurt; and Wijenberg, Joannes B. G.,3,421,855.
von Oertzen Klaus: *See*—
Harms, Wolfgang; von Oertzen Klaus; Bein, Hans-Samuel; and Siegel, Edgar,3,468,879.
Von Oertzer, Klaus: *See*—
Weinand, Claus; Von Oertzer, Klaus; and Hohmann, Walter,3,436,410.
von Ohain, Hans J. P.; and Wattendorf, Frank L., to United States of America, Air Force. Two component electro-fluid-dynamic power generator employing contact ionization. 3,465,180, 9-2-69, Cl. 310-11.
von Ohain, Hans J. P.; Wattendorf, Frank L.; and Lawson, Maurice O., to United States of America, Air Force. Generation of ions in high pressure high velocity gas stream. 3,439,197, 4-15-69, Cl. 310-11.
von Orelli, Marcus: *See*—
Martin, Henry; Duerr, Dieter; Hitz, Hans Rudolf; and von Orelli, Marcus,3,483,296.
von Philipsborn, Henning: *See*—
Dillon, Joseph F., Jr.; Le Craw, Roy Conway; von Philipsborn, Henning; and Wernick, Jack H.,3,480,409.
Von Portatius, Hans: *See*—
Henckel, Ekkehard; and Von Portatius, Hans,3,435,077.
von Portatius, Hans, to Chemische Werke Huls Aktiengesellschaft. Process for the production of polyoxymethylenes by catalytic polymerization of monomeric formaldehyde. 3,432,470, 3-11-69, Cl. 260-67.
von Recklinghausen, Daniel R., to Scott, H. H., Inc. Stereophonic receiver squelch apparatus. 3,448,385, 6-3-69, Cl. 325-348.
von Rintelen, Harald; Liebe, Werner; and Krafft, Werner, to Agfa-Gevaert Aktiengesellschaft. Silver salt diffusion process. 3,432,298, 3-11-69, Cl. 96-29.
Von Rosenberg, Guido; and Sapper, Wolfgang, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing strewable waxes for bright drying polish emulsions. 3,437,496, 4-8-69, Cl. 106-10.
von Rymon, Karola: *See*—
Happe, Reynold; and von Rymon, Werner,3,421,463.
von Rymon, Werner: *See*—
Happe, Reynold; and von Rymon, Werner,3,421,463.
Von Schell, Jurgen: *See*—
Bormann, Hermann; and Von Schell, Jurgen,3,471,118.
von Schertel, Hanns, to Supramar A.G. Automatically stabilized hydrofoil boat. 3,464,377, 9-2-69, Cl. 114-66.5
von Schmeling, Bogislav; and Covey, Rupert A., to Uniroyal Inc. Sulfite nematocides. 3,428,734, 2-18-69, Cl. 424-303.
Von Schmeling, Bogislav; and Kulka, Marshall, to Uniroyal, Inc. Stimulation of plant growth. 3,454,391, 7-8-69, Cl. 71-77.
Von Schoppe, Bertram A.: *See*—
Dunlap, Robert B.; Peterson, Evald O.; and Von Schoppe, Bertram A.,3,449,933.
Von Schuh, Heinz-Georg: *See*—
Mohler, Werner; Reiser, Mario; Popendiker, Kurt; and Von Schuh, Heinz-Georg,3,422,107.
von Schwedler, Gerald C.: *See*—
Treatch, James E.; and von Schwedler, Gerald C.,3,437,849.
von Seggern, Ernest A.; and von Seggern, Henry E. Internal combustion engine, fuel supply system and process. 3,443,552, 5-13-69, Cl. 123-32.
von Seggern, Ernest A.; and von Seggern, Henry E. Air valve actuating means and method for supplying auxiliary air to an internal combustion engine. 3,470,855, 10-7-69, Cl. 123-97.
von Seggern, Henry E.: *See*—
von Seggern, Ernest A.; and von Seggern, Henry E.,3,443,552.
von Seggern, Ernest A.; and von Seggern, Henry E.,3,470,855.
von Starck, Axel: *See*—
Seulen, Gerhard; and von Starck, Axel,3,437,778.
Von Stocker, Selmer G., to Aluminum Company of America. Container opening devices. 3,424,337, 1-28-69, Cl. 220-54.
Von Stoesser, Kurt Ludwig. Efflorescent composition. 3,438,894, 4-15-69, Cl. 252-1.
Von Strandtmann, Maximilian: *See*—
Shavel, John, Jr.; and Von Strandtmann, Maximilian,3,487,086.

von Stroh, Gerald F. H.; and Ireland, James D. Process for the reduction of iron ore in a cupola type furnace. 3,454,395, 7-8-69, Cl. 75-40.

von Sybel, Reinhard: *See—*
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin,3,426,661.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl,3,465,656.

Von Tersch, Alfred L.: *See—*
Pool, James L.; and Von Tersch, Alfred L.,3,448,592.

Von Tomkewitsch, Romuald; and Bosch, Werner, to Siemens Aktiengesellschaft. Piezoelectric relay. 3,430,020, 2-25-69, Cl. 200-181.

von Trebra, Richard L., Jr.: *See—*
Armstrong, Robert K.; and von Trebra, Richard L., Jr.,3,457,187.

Von Tress, William R.; and Enos, James H., to Dow Chemical Company, The. Method for making porous structures. 3,436,444, 4-1-69, Cl. 264-44.

von Waldeck, Friedrich-Carl; and Sievers, Willi, to Continental Gummi-Werke Aktiengesellschaft. Method of and apparatus for building-up pneumatic tires. 3,486,958, 12-30-69, Cl. 156-132.

von Wasielewski, Erwin: *See—*
Biedermann, Friedrich; Duerr, Helmut; von Wasielewski, Erwin; Mayr, Helmut; Huber, Hans-Peter; Granser, Josef; and Pelte, Richard,3,483,807.
Engelsmann, Dieter; Von Wasielewski, Erwin; and Winkler, Alfred,3,470,799.
Kiper, Gerd; and von Wasielewski, Erwin,3,463,072.

von Wasielewski, Erwin, to Agfa-Gevaert Aktiengesellschaft. Camera with exposure meter. 3,425,326, 2-4-69, Cl. 95-10.

von Wasielewski, Erwin, to Agfa-Gevaert Aktiengesellschaft. Shutter actuating arrangement. 3,429,244, 2-25-69, Cl. 95-10.

Von Wasielewski, Erwin; and Handwerk, Karl-Heinz, to AGFA-Gevaert Aktiengesellschaft. Impeller shutter for photographic camera. 3,444,794, 5-20-69, Cl. 95-10.

von Wasielewski, Erwin; and Handwerk, Karl-Heinz, to Agfa-Gevaert Aktiengesellschaft. Motion picture camera with combined shutter and diaphragm means. 3,471,226, 10-7-69, Cl. 352-141.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin,3,426,661.

Von Wasiliewski, Erwin: *See—*
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl,3,465,656.

von Wedel, Ernst, to Heinz Schurmann & Co., Firma. Universal connecting arrangement. 3,465,996, 9-9-69, Cl. 248-287.

von Wiesenthal, Peter. Improving reformer-furnace performance by using gas-turbine exhaust. 3,424,695, 1-28-69, Cl. 252-373.

Von Wiesenthal, Peter. Furnace and related process involving combustion air preheating. 3,426,733, 2-11-69, Cl. 122-1.

von Wiesenthal, Peter. Off gas firing system. 3,433,218, 3-18-69, Cl. 122-7.

von Wiesenthal, Peter, to Alcorn Combustion Company. Apparatus for high-temperature conversions. 3,469,946, 9-30-69, Cl. 23-277.

Von Zeppelin, Kurt; Assmus, Friedrich Fritzof; and Wolber, Robert, to Gebruder Junghans Gesellschaft mit beschrankter Haftung. Continuous switching devices. 3,444,747, 5-20-69, Cl. 74-88.

Voo, David, to Union Carbide Corporation. Internal dusting apparatus. 3,474,755, 10-28-69, Cl. 118-44.

Voorheis, James T. Horizontal boilers, apparatus in combination therewith and methods for heating same. 3,463,125, 8-26-69, Cl. 122-88.

Voorheis, James T., to Coen Manufacturing Corporation. Automatic self-cleaning liquid straining system. 3,485,369, 12-23-69, Cl. 210-108.

Voorheis, Wylie J., to Ford Motor Company. Fluid bypass and pressure relief valve assembly. 3,433,242, 3-18-69, Cl. 137-119.

Voorhies, Alexis, Jr.; Kimberlin, Charles Newton, Jr.; and Gladrow, Elroy Merle, to Esso Research and Engineering Company. Mordenite catalyst compositions. 3,480,539, 11-25-69, Cl. 208-111.

Voorhies, Donald A., to General Motors Corporation. Method for producing porous metal parts having uniform fluid permeability. 3,480,530, 11-25-69, Cl. 204-141.

Voorhies, John Davidson; and Landi, Henry Patrick, to American Cyanamid Company. Metal-air battery including fibrillated cathode. 3,462,307, 8-19-69, Cl. 136-86.

Voorhies, John D.: *See—*
Davis, Stanley M.; Voorhies, John D.; and Schurdak, Edward J.,3,468,708.

Voorhis, Harold W., to Continental Can Company, Inc. Carton dispenser machine. 3,468,455, 9-23-69, Cl. 221-225.

Voorhis, Harold W., to Continental Can Company, Inc. Hinge for molded pulp egg carton. 3,469,763, 9-30-69, Cl. 229-44.

Voorhoeve, Ernst W., to Leeds & Northrup Company. Stabilization of drain-electrode current of insulated-gate field-effect transistor. 3,454,894, 7-8-69, Cl. 330-30.

Voorlas, Peter H. Water-air massaging device. 3,420,227, 1-7-69, Cl. 128-66.

Voorman, Henry, Jr., to Wagner Electric Corporation. Compensated current bimetallic sensing device with lamp burn-out indicating means. 3,454,941, 7-8-69, Cl. 340-251.

Vorbach, Gunther, to Siemens Aktiengesellschaft. Apparatus for two-directional feed of perforated tapes. 3,482,752, 12-9-69, Cl. 226-51.

Vordahl, Milton B., to Crucible Steel Company of America. Metal articles and method. 3,466,734, 9-16-69, Cl. 29-470.9

Vorderbrugge, Hermann, to Kleinewefers, Joh., Sohne Maschinenfabrik. Apparatus for filtering treating liquor in wet processing machines of the textile industry. 3,429,446, 2-25-69, Cl. 210-396.

Vore, Herbert George, to Improved Machinery Inc. Injection molding machine. 3,456,299, 7-22-69, Cl. 18-30.

Voris, William H., to Koppers Company, Inc. Coated expandable polystyrene. 3,462,293, 8-19-69, Cl. 117-100.

Vorisek, Premysl, to Vyzkumny Ustav Bavlnarsky. Method of and apparatus for producing core yarns. 3,445,993, 5-27-69, Cl. 57-6.

Vorkink, Harry G.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,474,328.

Vornbaumen, E., & Co.: *See—*
Hofrichter, Wilhelm, 3,431,718.

Vornberger, Karl F.: *See—*
Harriman, Allen C.; and Vornberger, Karl F.,3,478,379.
Kamborian, Jacob S.; Harriman, Allen C.; Jones, Geoffrey T.; and Vornberger, Karl F.,3,422,474.

Vornberger, Walter A.: *See—*
Kamborian, Jacob S.; Vornberger, Walter A.; and Arsenault, James H.,3,470,849.

Vorndran, Gerald F. Apparatus for storing and dipensing stacked articles. 3,428,185, 2-18-69, Cl. 211-49.

Voronak, Jozef, to Chepos, Zavody chemickeho a potravinarskeho strojirenstvi, oborovy podnik. Percussion press. 3,426,574, 2-11-69, Cl. 72-454.

Voros, Donald F., to ACF Industries, Incorporated. Roof structure for railway cars. 3,429,083, 2-25-69, Cl. 52-53.

Vorst, Herman Louis; and Borst, Gijsbertus Hendricus. Method for preventing the splitting of the calyx of flowers E. G. of carnations. 3,422,570, 1-21-69, Cl. 47-55.

Vorves, Steve P. Spinning toy. 3,422,568, 1-21-69, Cl. 46-243.

Vorys, Nichols D.: *See—*
Leininger, Robert I.; Spencer, Joy L.; and Vorys, Nichols D.,3,454,004.

Vosbikian, James T.; and Vosbikian, Manuel. Combined screwdriver and socket wrench. 3,452,373, 7-1-69, Cl. 7-1.

Vosbikian, Manuel: *See—*
Vosbikian, James T.; and Vosbikian, Manuel,3,452,373.

Vosbikian, Samuel P. Bracket and hook assembly. 3,469,710, 9-30-69, Cl. 211-116.

Vosburgh, William George, Sr., to Du Pont de Nemours, E. I., and Company. Non-woven fabric with columnar bonds. 3,459,627, 8-5-69, Cl. 161-148.

Vose, Hamilton, III; and Rose, Rudolph J. Collapsible paperboard pallet and method. 3,453,973, 7-8-69, Cl. 108-51.

Voser, Otto O. Volumetric machine. 3,464,361, 9-2-69, Cl. 103-117.

Voshall, Roy E., to Westinghouse Electric Corporation. Multiple-break enclosed -type circuit interrupters with external rotary contact driving means and single chamber construction. 3,480,750, 11-25-69, Cl. 200-144.

Vospalek, Bojan; and Bornberg, John D., to Standard Brands Incorporated. Fudge process. 3,462,279, 8-19-69, Cl. 99-134.

Vosper Limited: *See—*
Tanner, Philip Henry, 3,442,243.

Voss, Albert Walter: *See—*
Sattler, Wolf B.; Voss, Albert Walter; and Wendel, Hartmut W. G.,3,440,225.

Voss, Bernhard: *See—*
Irmler, Horst; and Voss, Bernhard,3,449,649.

Voss Engineering Company: *See—*
Fornataro, Augustine A., 3,477,266.
Fornataro, Augustine A., 3,483,765.
McKnight, Robert J., III, 3,426,566.

Voss, Ernst: *See—*
Linnemann, Rolf; and Voss, Ernst,3,485,340.

Voss, Henry J.: *See—*
Loring, Lewis D.; and Voss, Henry J.,3,455,716.

Voss, Joachim: *See—*
Krussmann, Adolf; and Voss, Joachim,3,458,812.

Voss, Joseph A.; and Johnson, Carl W., said Johnson assor. to said Voss. Hygienic devices and methods of making the same. 3,433,225, 3-18-69, Cl. 128-263.

Voss, Manfred: *See—*
Rehnelt, Kurt; and Voss, Manfred,3,458,465.
Stein, Werner; Baumann, Horst; and Voss, Manfred,3,424,693.
Stein, Werner; Baumann, Horst; and Voss, Manfred,3,424,694.

Voss, Robert H.: *See*—
Gettle, Robert E.; and Voss, Robert H.,3,452,925.
Voss, Wendell G., to Aeronca, Inc. Method and material for making joints between refractory panels. 3,434,854, 3-25-69, Cl. 106-57.
Vossberg, Carl A. Measuring apparatus for obviating the effects of noise on information signals. 3,487,214, 12-30-69, Cl. 250-83.3
Vosseller, George V., to Nilok Chemicals, Inc. Preparation of alkali metal dicyanamides. 3,429,658, 2-25-69, Cl. 23-78.
Vossieck, Paul: *See*—
Feller, Otto; and Vossieck, Paul,3,425,240.
Feller, Otto; and Vossieck, Paul,3,470,710.
Vossieck, Paul, to Goetzewerke Friedrich Goetze A.G. Flexible shaft coupling. 3,470,602, 10-7-69, Cl. 29-436.
Voster, Reinhold. Safety ski binding. 3,424,470, 1-28-69, Cl. 280-11.35
Voster, Reinhold; and Dietz, Carl, to Vereinigte Baubeschlagfabriken Gretsch & Co. GmbH. Door closer with means for damping the closing movement of the door. 3,483,585, 12-16-69, Cl. 16-52.
Voster, Reinhold; and Hasslacher, Herbert, to Vereinigte Baubeschlagfabriken Gretsch & Co. G.m.b.H. Toe supporting device for a safety ski binding. 3,451,687, 6-24-69, Cl. 280-11.35
Vostoris, John. Sod cutting device. 3,451,486, 6-24-69, Cl. 172-13.
Votaw, Clarence J.: *See*—
Mauzey, Peter T.; Schlanger, Gabriel G.; Votaw, Clarence J.; and Zydney, Herbert M.,3,427,590.
Mauzey, Peter T.; Votaw, Clarence J.; and Zydney, Herbert M.,3,427,588.
Robinson, Edgar R.; Votaw, Clarence J.; and Zydney, Herbert M.,3,427,589.
Votaw, Richard L.; and Kline, John E., to National Cash Register Company, The. Method and apparatus for coating fastener holes. 3,478,409, 11-18-69, Cl. 29-458.
Voullaire, Hans G. Expanding body for anchoring bolts, nuts or similar connecting elements in structual members. 3,476,164, 11-4-69, Cl. 151-41.74
Voumard Machines Co. S.A.: *See*—
Schaad, Jean, 3,462,940.
Voyentzie, Peter R.; and Ziemba, Richard T., to General Electric Company. Acceleration actuated switch with explosive charge and thermitic material. 3,475,572, 10-28-69, Cl. 200-61.45
Vrable, John B., to United States Steel Corporation. Method and apparatus for protecting walls of a metal vessel against corrosion. 3,461,051, 8-12-69, Cl. 204-147.
Vrable, John B., to United States Steel Corporation. Method of protecting buried steel bodies against corrosion. 3,484,349, 12-16-69, Cl. 204-147.
Vrana, Carlos; and Passaro, Frank, to C. & W. Sewing Machine Co. Presser foot with adjustable welting pads. 3,463,104, 8-26-69, Cl. 112-235.
Vrancken, Marcel Nicolas, to Gevaert-Agfa N.V. Thermographic recording method employing a record- ing material comprising a uniform layer of discrete hydrophobic thermoplastic polymer particles. 3,476,937, 11-4-69, Cl. 250-65.
Vrancken, Marcel Nicolas: *See*—
Sels, Francis Jeanne; Willems, Jozef Frans; Vrancken, Marcel Nicolas; and Willems, Jozef Frans,3,462,273.
Vrang, Carl; Krog, Niels; and Lauridsen, Jens Birk, to Aktieselskabet Grendstedvaerket. Baking auxiliary. 3,479,189, 11-18-69, Cl. 99-118.
Vranian, Henry, to Chesapeake Corporation of Virginia, The. Actuating means. 3,455,538, 7-15-69, Cl. 254-89.
Vranka, Joseph S.: *See*—
Haines, Robert S.; and Vranka, Joseph S.,3,479,219.
Vratny, Frederick, to Bell Telephone Laboratories, Incorporated. Cathodic sputtering from a cathodically biased target electrode having an RF potential superimposed on the cathodic bi. 3,461,054, 8-12-69, Cl. 204-192.
V.R.B. Associates, Inc.: *See*—
Vassilevsky, Anatole N., 3,447,938.
Vreeland, Robert M., to Emerson Electric Co. Hermetic motor stator with insulated mounting bolts. 3,447,010, 5-27-69, Cl. 310-217.
Vreeling, John J.: *See*—
Mulder, Jelke H., 3,450,416.
Vroman, Albert L.; and Bouncher, Leo E., to A.D.L. Cement Products, Inc. Precast segment liquid storage tank. 3,429,473, 2-25-69, Cl. 220-5.
Vromans, Petrus Helena Gerardus Maria: *See*—
Kwestroo, Wim; and Vromans, Petrus Helena Gerardus Maria,3,450,496.
Vrotney, Stephen R.; and Kutchko, John R., to PPG Industries, Inc. Method of reducing porosity and pinholes in unsaturated polyester resin coatings. 3,449,468, 6-10-69, Cl. 260-862.
Vsesojuzny Nauchno-Issledovateljsky Institute Neftekhimicheskikh Protsessov: *See*—
Rudkovsky, David Moiseevich; and Imjanitov, Naum Oolomonovich, 3,462,481.
Vsesojuzny Nauchno-Issledovateljsky Institute Neftekhimicheskikh Protesessov: *See*—
Rudkovsky, David Moiseevich; and Imjanitov, Naum Solomovich, 3,481,975.
Vsesojuzny Nauchno-Issledovatelsky i Proektno- Konsturktorsky Institute metallurgicheskogo mashinostroenija: *See*—
Konovalov, Vladimir Pavlovich; Krylov, Nickolai Ivanovich; Popov, Boris Vasilievich; and Rudakov, May Mikhailovich, 3,466,961.
Vsesojuzny Nauchno-Issledovatelsky i Proektno-Konsturktorsky Institut Metallurgicheskogo Mashinostroenija: *See*—
Krylov, Nikolai Ivanovich; Popov, Boris Vasilievich; Sidorov, Pavel Ivanovich; Saksagansky, Alexandr Teodorovich; Levitsky, Isaak Iosifovich; and Golovkina, Tatyana Borisovna, 3,428,096.
Vsesojuzny Nauchno-Issledovatelsky i Proektny Institute Mekhanicheskoi Obrabotki Poleznykh Iskopaemykh: *See*—
Dubrovin, Boris Nickolaevich; Fedorov, Boris Nickolaevich; Blekhman, Ilja Izrailevich; and Petrosjants, Anatoly Aramaisovich, 3,467,318.
Vsesouzny Nauchno-Issledovatelsky Institute Elektrosvarochnogo Oborudovanija: *See*—
Vill, Vadim Ivanovich; Kochanovsky, Nikolai Jakovlevich; Tazba, Semen Moiseevich; Shpeizman, Miron Matveevich; and Shternin, Lev Alexandrovich, 3,460,734.
VSI Corporation: *See*—
Page, Leo W.; Emery, Thomas A.; and Sowers, Lewis C., 3,440,359.
Vuataz, Luc; and Giddey, Andre, to Afico S.A. Preparation of tea extract from unfermented tea. 3,477,854, 11-11-69, Cl. 99-777.
Vuataz, Luc: *See*—
Giddey, Andre; and Vuataz, Luc,3,481,744.
Vuceta, Ivan N., to TRW Inc. Ammunition feed method and system. 3,485,136, 12-23-69, Cl. 89-34.
Vuillemenot, Jacques: *See*—
Goeb, Andre; and Vuillemenot, Jacques,3,474,018.
Szobel, Laszlo; Troussier, Maurice; and Vuillemenot, Jacques,3,446,838.
Vuillemey, Roland: *See*—
Kassel, Charles; Sachnine, Philippe; and Vuillemey, Roland,3,486,987.
Vuillemot, Ward T., to Eastman Kodak Company. Commutator. 3,486,056, 12-23-69, Cl. 310-228.
Vukovich, John R., to Dow Corning Corporation. Automatic device for producing expanded tubing. 3,427,638, 2-11-69, Cl. 18-19.
Vulcan Australia Limited: *See*—
Trihey, John Massey, 3,435,852.
Vulcan Iron Works Inc.: *See*—
Adams, Campbell V., 3,455,208.
Warrington, Henry G.; and Manning, George C., 3,444,937.
Warrington, Henry G., 3,454,112.
Vulcan Manufacturing Company, Inc.: *See*—
Hilleman, George L., 3,446,219.
Vulcan Materials Company: *See*—
Wilson, Harold Paul, 3,432,256.
Vulcan-Cincinnati, Inc.: *See*—
Wentworth, Theodore O.; and Anderson, Clyde G., 3,442,770.
Wentworth, Theodore O.; and Anderson, Clyde G., 3,480,407.
Vulcanized Rubber and Plastics Company: *See*—
Purper, Robert L., 3,428,581.
Vulcanus Aktiengesellschaft: *See*—
Struyk, Antony Albertus, 3,474,960.
Vulkan-Werk Wilhelm Diebold: *See*—
Stoeffler, Bernhard, 3,462,162.
Vulliez, Paul. Volumetric apparatus such as a vacuum pump or the like, having an exact circular translation cycle. 3,473,728, 10-21-69, Cl. 230-146.
Vullo, William J., to Hooker Chemical Corporation. Hydroxymethyl, beta-hydroxyalkylene phosphonium salts and the preparation thereof. 3,452,098, 6-24-69, Cl. 260-606.5
Vullo, William J., to Hooker Chemical Corporation. Process for preparing cyanoalkyl-phosphine. 3,475,479, 10-28-69, Cl. 260-465.8
Vuolo, Vincent C.: *See*—
Stokes, Horace F., Jr.; and Vuolo, Vincent C.,3,457,365.
VV International Limited: *See*—
Schelkmann, Wilhelm, 3,455,753.
VVB Elektrogerate: *See*—
Forste, Walter; and Ostermay, Gottfried, 3,473,062.
Forste, Walter; and Ostermay, Gottfried, 3,473,063.
Vyaznikov, Alexandr Konstantinovich; Davydov, Alexei Ivanovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; Kohkhlov, Evgeny Ilich; and Charykov, Nikolai Frolovich. Cane stem chopper. 3,472,299, 10-14-69, Cl. 146-98.
Vyaznikov, Alexandr Konstantinovich; Egorov, Vasily Pavlovich; Melnikov, Nikolai Nikitovich; Popov, Boris Andreevich; and Khokhlov, Evgeny Ilich. Cane harvester. 3,446,258, 5-27-69, Cl. 146-108.

Vyce, Joseph Richard, to Perkin-Elmer Corporation, The. Electro-optical apparatus for monitoring rotational movement of a body. 3,427,108, 2p11-69, Cl. 356-117.
Vydrina, Tatiana Konstantinovna: *See*—
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.
Vypak Corporation: *See*—
Roger, Van Asbroeck, 3,458,897.
Vyrkumny ustav Bavlnarsky: *See*—
Rajnoha, Jaroslav; and Bures, Ladislav, 3,455,097.
Vyskocil, Charles D.: *See*—
Dunham, Robert W.; and Vyskocil, Charles D.,3,443,258.
Vyskumny ustav Kovu Panenske Brezany: *See*—
Holeczy, Julius; Schmiedl, Juraj; and Sehnalek, Frantisek, 3,459,415.
Vyskumny ustav mechanizacie a automatizacie: *See*—
Benes, Ladislav, 3,430,078.
Kouril, Jaroslav, 3,433,669.
Travenec, Igor, 3,465,710.
Vyskumny Ustav Zvaracsky: *See*—
Ehrenstein, Elemir; and Slabon, Ivan, 3,431,391.
Zeke, Julius, 3,427,429.
Vystrcil, Karel: *See*—
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav,3,447,525.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav,3,447,526.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav,3,447,527.
Vytiska, Alois: *See*—
Hron, Jaroslav; Kliment, Jiri; Kryzanek, Vladimir; Mirtes, Bohumil; and Vytiska, Alois,3,436,751.
Vyzkumny a vyvojovy ustav Zavodu vseobecneho strojirenstvi: *See*—
Cermak, Jiri; and Jakubec, Jindrich, 3,478,644.
Novotny, Bohuslav; and Cermak, Jiri, 3,456,553.
Vyzkumny Ustav Bavlnarsky: *See*—
Boucek, Miroslav; Pospisil, Frantisek; Elias, Jiri; Tyl, Miloslav; and Mikulecky, Karel, 3,462,936.
Doudlebsky, Ctibor; Fajt, Ludvik; Bucil, Frantisek; and Kabele, Stanislav, 3,434,184.
Kubovy, Miloslav; Jirasek, Erik; Stary, Josef; and Zavadsky, Karel, 3,481,130.
Pospisil, Frantisek; and Elias, Jiri, 3,429,514.
Pospisil, Frantisek; and Elias, Jiri, 3,433,433.
Stary, Josef; Kubovy, Miloslav; and Jirasek, Erik, 3,440,812.
Storek, Jaroslav; Wiedermann, Jiri; Hrdina, Jan; and Volesky, Radovan, 3,457,716.
Vorisek, Premysl, 3,445,993.
Vyzkumny ustav matematickych stroju: *See*—
Dostal, Jiri, 3,436,660.
Hornak, Tomas, 3,456,189.
Hornak, Tomas, 3,462,685.
Hornak, Tomas, 3,473,123.
Hron, Jaroslav; Kliment, Jiri; Kryzanek, Vladimir; Mirtes, Bohumil; and Vytiska, Alois, 3,436,751.
Jura, Stanislav, 3,452,909.
Jura, Stanislav, 3,472,436.
Matejka, Jaroslav; and Kastovsky, Jiri, 3,436,527.
Pechoucek, Miroslav, 3,428,913.
Svoboda, Antonin; Oblonsky, Jan; and Korvas, Zdenek, 3,434,118.
Toifl, Jaroslav, 3,430,118.
Toifl, Jaroslav; and Martinek, Miloslav, 3,439,336.
Vyzkumny ustav Organickych syntex: *See*—
Nemec, Jindrich; Kaspar, Jan; and Soudek, Josef, 3,477,575.
Vyzkumny Ustav Pletarsky: *See*—
Krejci, Ota; Krejci, Danuse; Travnicek, Zdenek; and Dvorak, Jan, 3,442,266.
Skrepek, Jan; and Jakubec, Ivan, 3,422,641.
Svoboda, Frantisek; and Kliment, Lubomir, 3,449,929.
Vyzkumny ustav strojirensko technologie a ekonomiky: *See*—
Brany, Jaroslav; and Panek, Jiri, 3,486,616.
Vyzkumny Ustav Zuslechtovaci: *See*—
Hrboticky, Jiri, 3,470,571.
W. & A. Manufacturing Company: *See*—
West, Wilbur C., 3,456,607.
W-L Molding Company, The: *See*—
Laure, George R., 3,451,734.
Waaben, Sigurd G.: *See*—
Finch, Tudor R.; and Waaben, Sigurd G.,3,484,764.
Lynes, Dennis J.; and Waaben, Sigurd G.,3,480,800.
Waag, Ake: *See*—
Grunewald, Helmut; and Waag, Ake,3,429,822.
Waagner-Biro A.G.: *See*—
Kemmetmueller, Roland, 3,460,518.
Waagner-Biro Aktiengesellschaft: *See*—
Gilli, Paul, 3,444,401.
Waara, William A.: *See*—
Auernhammer, Marcus J.; and Waara, William A.,3,437,191.
Waaske, Heinz, to Rollei-Werke Franke & Heidecke. Photographic camera. 3,444,796, 5-20-69, Cl. 95-31.
Waaske, Heinz, to Rollei-Werke Franke & Heidecke. Photographic camera with flash contact. 3,470,800, 10-7-69, Cl. 95-11.5
Waaske, Heinz, to Rollei-Werke Franke & Heidecke. Photographic camera. 3,470,804, 10-7-69, Cl. 95-39.
Wace, Peter Frederick, to United Kingdom Atomic Energy Authority. Continuous multistage ion exchange method and apparatus. 3,445,382, 5-20-69, Cl. 210-24.
Wache, Wilhelm, deceased (by Wache, Helen, heir); and Busing, Bodo, to Wache, Wilhelm, G.m.b.H., Firma. Treating metal articles with liquids. 3,459,201, 8-5-69, Cl. 134-96.
Wache, Wilhelm, G.m.b.H., Firma: *See*—
Wache, Wilhelm; and Busing, Bodo, 3,459,201.
Wache, Xavier, to Societe Metallurgique d'Imphy. Non-magnetic iron-nickel-chromium- molybdenum alloy, and watch springs obtained with this alloy. 3,464,815, 9-2-69, Cl. 75-124.
Wachendorf, Friedrich Karl, to Atlas-MaK Maschinenbau GmbH. Pneumatically operable mechanism for doffing bobbins. 3,466,863, 9-16-69, Cl. 57-52.
Wachenheimer, Andre Y. Drapery hangers. 3,444,595, 5-20-69, Cl. 24-73.
Wachi, Akira: *See*—
Taniguchi, Naonori; and Wachi, Akira,3,434,328.
Wachs, Marvin R., to Communications Satellite Corporation. Constant level loading of F.M. modulator. 3,477,042, 11-4-69, Cl. 332-16.
Wachs, Reuven (Roman): *See*—
Abrahami, Shoshana; Molcho, Aharon; and Wachs, Reuven (Roman),3,480,561.
Wacht, Raymond J.: *See*—
Prescott, William A.; Wacht, Raymond J.; and Stallard, Wayne R.,3,461,989.
Wachtell, Richard: *See*—
Friedman, Joseph; and Wachtell, Richard,3,435,762.
Wachter, Karl-August; and Eckstein, Wolfgang, to Drager, Otto H. Gas detector apparatus. 3,446,600, 5-27-69, Cl. 23-254.
Wachter, Millard A. Pressure control valve for aircraft. 3,425,333, 2-4-69, Cl. 98-1.5
Wachter, Otto; and Lorber, Gerd, to Trumpf & Co. Device for machine tools. 3,433,122, 3-18-69, Cl. 90-13.5
Wachter, William J.; and Smith, Keith V., to Westinghouse Electric Corporation. Welded joint structure for high pressure vessel. 3,437,225, 4-8-69, Cl. 220-3.
Wack, Bernard Francois, to Electricite de France (Service National). Apparatus for measuring the humidity and mass of soils. 3,428,806, 2-18-69, Cl. 250-83.1
Wack, Geza; Perenyi, Tibor; Udvardy Nagy, Eva nee Oserei Pehany; and Zsoka, Erzsebet nee Somkuti, to Richter Geodeon Vegyeszeti Gyar RT. Method for increasing alkaloid production of submerse claviceps cultures. 3,483,086, 12-9-69, Cl. 195-81.
Wacker, Hermann and Wacker, Peter: *See*—
Wittig, Gerhard, 3,421,377.
Wacker-Chemie G.m.b.H.: *See*—
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf, 3,423,318.
Bauer, Ignaz; Nitzsche, Siegfried; and Riedle, Rudolf, 3,487,123.
Fritzweiler, Rupprecht; Heckmaier, Joseph; Gerstner, Ferdinand; Wimmer, Hans; and Winkler, Heinz, 3,471,131.
Fruhwirth, Otto; Schmidhammer, Ludwig; and Pichl, Eduard, 3,424,805.
Hittmair, Paul; Wohlfarth, Ernst; Nitsche, Siegfried; and Wick, Manfred, 3,432,463.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst, 3,464,951.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst, 3,474,064.
Kunstle, Gerhard; Heckmaier, Joseph; Knorr, Fritz; and Siegl, Herbert, 3,474,138.
Kunstle, Gerhard; and Siegl, Herbert, 3,476,798.
Marwitz, Heinrich; Nitzsche, Siegfried; and Pirson, Ewald, 3,481,899.
Nitzsche, Siegfried; Riedle, Rudolf; and Hombergsmeier, Gerhard, 3,428,580.
Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst, 3,440,207.
Nitzsche, Siegfried; and Buchheit, Paul, 3,453,307.
Nitzsche, Siegfried; Pirson, Ewald Heinrich; and Roth, Michael, 3,455,710.
Pirson, Ewald; Roth, Michael; and Nitzsche, Siegfried, 3,464,920.
Schmitz, Hilger Peter, 3,473,552.
Sieber, Rolf, 3,444,245.
Wegehaupt, Karl-Heinrich; Wick, Manfred; and Nitzsche, Siegfried, 3,464,950.
Wacker-Werke KG: *See*—
Schulin, Gotthilf, 3,460,637.
Wackher, Richard C.: *See*—
Gleim, William K. T.; Wackher, Richard C.; and Ramquist, Frederick C.,3,465,055.

Wackrow, Roger David, to Birmingham Small Arms Company Limited, The. Explosive-actuated tools. 3,468,466, 9-23-69, Cl. 227-10.
Wackrow, Roger David, to Birmingham Small Arms Company Limited, The. Explosive-actuated tools. 3,473,718, 10-21-69, Cl. 227-10.
Wackrow, Roger David, to Birmingham Small Arms Company Limited, The. Explosive-actuated tools for driving nails, studs, or other anchoring members into hard materials. 3,485,431, 12-23-69, Cl. 227-10.
Wacks, Klaus; and Burger, Helga, to Gebruder Herrmann. Process for producing crystalline zeolites. 3,443,892, 5-13-69, Cl. 23-113.
Waclawek, Miczyslaw J., to Clark Equipment Company. Hydrodynamic torque converter. 3,461,670, 8-19-69, Cl. 60-54.
Waclawek, Miczyslaw J. Transmission. 3,486,398, 12-30-69, Cl. 74-688.
Waco, Richard F.: *See—*
Mnichowicz, Donald A.; and Waco, Richard F.,3,480,735.
Waco Scaffold & Shoring Co., Division of Bliss & Laughlin Industries, Inc.: *See—*
Kosmach, Fred C.; Mocny, Richard C.; and Moritz, Donald B., 3,420,030.
Wada, Ichiro, to Tokyo Shibaura Electric Co., Ltd. Flow detection signal generator for electromagnetic flowmeters. 3,465,585, 9-9-69, Cl. 73-194.
Wada, Ichiro, to Tokyo Shibaura Electric Co., Ltd. Electromagnetic flow meter. 3,486,376, 12-30-69, Cl. 73-194.
Wada, Isamu: *See—*
Kudo, Shiro; Mihara, Yoshihisa; Adachi, Taiichi; Tsurugi, Shinichi; Usuku, Tomoatsu; and Wada, Isamu,3,476,796.
Wada, Juro. One way valve device suitable for use as a heart valve. 3,445,863, 5-27-69, Cl. 3-1.
Wada, Kamekichi: *See—*
Nakamura, Hajime; and Wada, Kamekichi,3,463,677.
Wada, Masamichi: *See—*
Takagi, Kiyoshi; and Wada, Masamichi,3,455,706.
Tashiro, Megumi; Wada, Masamichi; Yamanaka, Toshio; and Tani, Kenichi,3,473,937.
Wada, Ryuji: *See—*
Tomita, Tamaki; Wada, Ryuji; and Kodama, Hayashi,3,454,311.
Wada, Shyozo: *See—*
Nakajima, Nobuo; Miyata, Koichi; Wada, Shyozo; and Shimazono, Hirao,3,443,969.
Wada, Toshiya; Akanuma, Kaneo; and Takata, Toshihiko, to Yawata Iron & Steel Co., Ltd. Process for the formation of electric insulating coating on electric iron sheet. 3,477,881, 11-11-69, Cl. 148-6.2
Wada, Yasuo: *See—*
Forman, Barry J.; Knechtli, Ronald C.; and Wada, Yasuo,3,439,297.
Knechtli, Ronald C.; and Wada, Yasuo,3,439,224.
Wada, Yasuo, to Hughes Aircraft Company. Electron injection plasma variable reactance device. 3,439,223, 4-15-69, Cl. 315-39.
Wada, Yoshio; Watanabe, Eiji; and Suzuki, Takao, to Nihon Denshi Kabushiki Kaisha. Mass spectrometer ion source with dual interlocked valve means for evacuation purposes. 3,469,093, 9-23-69, Cl. 250-41.9
Wada, Yoshiyo, to Victor Company of Japan, Limited. Tape tension control system. 3,423,541, 1-21-69, Cl. 179-100.2
Wada, Yoshiyo, to Victor Company of Japan, Limited. Apparatus for guiding and driving a tape for magnetic recording and reproducing in oblique tracks. 3,474,195, 10-21-69, Cl. 179-100.2
Wada, Yosiaki, to Eiken Kizai Kabushiki Kaisha. Air introduction device for use in a transfusion set. 3,456,647, 7-22-69, Cl. 128-214.
Wada, Yuji: *See—*
Kihara, Nobutoshi; and Wada, Yuji,3,431,353.
Waddan, Dhafir Yusuf: *See—*
Cornforth, David Arthur; Waddan, Dhafir Yusuf; and Williams, Derek,3,484,475.
Waddell, Richard E., to Bell Telephone Laboratories, Incorporated. Automatic reporting telephone that transmits message upon receipt of response signal during predetermined intervals. 3,427,401, 2-11-69, Cl. 179-2.
Waddell, Richard E.: *See—*
Ritchey, James F.; Tate, Louis D.; and Waddell, Richard E.,3,480,730.
Stokes, Rembert R.; and Waddell, Richard E.,3,427,403.
Waddell, Seebohn Vernon. Wire crimping tool. 3,429,173, 2-25-69, Cl. 72-409.
Waddington & Duval (Holdings) Limited: *See—*
Lane, Charles Anthony; and Jones, Alan Thomas, 3,460,715.
Waddington, Max D., to Ampex Corporation. Reel container. 3,480,134, 11-25-69, Cl. 206-52.
Waddington, Philip L., Jr., to Concrete Pipe Machinery Company. Flexible support for concrete pipe mold. 3,463,426, 8-26-69, Cl. 248-22.
Waddington, Philip L., to Concrete Pipe Machinery Company. Ring positioning apparatus for concrete pipe manufacture. 3,452,407, 7-1-69, Cl. 25-39.
Waddington, Rogor Strange; and Duval, Bruce, to T.P.I. Limited. Training devices. 3,457,783, 7-29-69, Cl. 73-188.
Waddington, Rogor Strange; and Duval, Bruce, to T.P.I. Limited. Training devices. 3,471,943, 10-14-69, Cl. 35-11.
Wade, Ammon L. Noise making shoe attachment. 3,479,753, 11-25-69, Cl. 36-7.5
Wade, Charles A., to National Distillers and Chemical Corporation. Extrusion coating method. 3,470,055, 9-30-69, Cl. 156-244.
Wade, Charles E., to Purex Corporation, Ltd. Swimming pool filter with alternate flow valve control. 3,451,554, 6-24-69, Cl. 210-278.
Wade, Clinton A., to General Electric Company. Tachometer for a D.C. motor utilizing an auxiliary pair of brushes. 3,484,686, 12-16-69, Cl. 324-70.
Wade, Eric, to Rotax Limited. Capacitor comprising a sealed housing and pressure maintaining means on stacked unit therein. 3,440,494, 4-22-69, Cl. 317-230.
Wade, Eric, to Rotax Limited. Manufacture of capacitors. 3,449,810, 6-17-69, Cl. 29-25.42
Wade, Glen, to Zenith Radio Corporation. Parametric amplifier. 3,449,678, 6-10-69, Cl. 330-4.7
Wade International Limited: *See—*
Emberson, John E., 3,447,329.
Wade, Jack R., Jr.: *See—*
Lyons, Charles E.; McDaniel, Donald M.; and Wade, Jack R., Jr.,3,465,871.
Wade, Jesse L., to Trio Manufacturing Company. Birdhouse clean-out door latch. 3,426,732, 2-11-69, Cl. 119-23.
Wade, Kenneth R.: *See—*
Baker, Ian P. S.; and Wade, Kenneth R.,3,428,040.
Wade, Lisby L.; and Landram, James F., to Dow Chemical Company, The. Method for the systemic control of ectoparisites with phosphorodiamitates. 3,475,536, 10-28-69, Cl. 424-220.
Wade, Lloyd H. Combined firearm and motion picture camera. 3,427,102, 2-11-69, Cl. 352-95.
Wade, Maurice A: *See—*
Redmayne, Leonard; and Wade, Maurice A,3,470,985.
Wade, Peter: *See—*
Watkin, David Anthony; Noe, Edwin Henry; and Wade, Peter,3,476,058.
Wade, R. M., & Co.: *See—*
Cornelius, Gail, 3,439,939.
Wade, Richard C.: *See—*
Genzabella, Carmen F.; and Wade, Richard C.,3,458,778.
Wade, Robert C., to Ventron Corporation. Chelates of titanous compounds staple at a pH greater than 5. 3,453,213, 7-1-69, Cl. 252-105.
Wade, Robert C., to Ventron Corporation. Reaction products of metal chlorides and borate esters and method for producing same. 3,455,976, 7-15-69, Cl. 260-429.3
Wade, Robert C., to Ventron Corporation. Reactions products of chlorides of Al (III) and Fe (III), with borate esters. 3,457,289, 7-22-69, Cl. 260-439.
Wade, Robert C., to Ventron Corporation. Reacton products of chlorides of Mo(V), Nb(V) Ta(V) and W(VI) with borate esters. 3,462,469, 8-19-69, Cl. 260-429.
Wade, Robert M.: *See—*
Arnaudin, Edwin H., Jr.; and Wade, Robert M.,3,479,446.
Wade, Ronald A., to International Harvester Company. Dual width tubeless tire rim. 3,463,213, 8-26-69, Cl. 152-409.
Waders, Ralph. Game apparatus. 3,420,525, 1-7-69, Cl. 273-135.
Wadleigh, Robert R.: *See—*
Whitener, Philip C.; Wadleigh, Robert R.; and Blattner, David G.,3,447,761.
Wadley, Edward F.: *See—*
Amir, Emanuel M.; Wadley, Edward F.; and Wesselhoft, Robert D.,3,449,456.
Wadlow, Roy Sidney; and Walker, Francis Ian Victor, to Miles, F. G., Engineering Limited. Actuator mechanisms. 3,451,276, 6-24-69, Cl. 74-50.
Wadmark, Lars Olof Tor, to Aktiebolaget Atomenergi. Integral boiling water-superheat nuclear reactor. 3,454,467, 7-8-69, Cl. 176-54.
Wadso, Bertil Ingemar, to LKB-Produkter AB. Miniaturized reaction vessel for mixing small quantities of liquids with a minimum amount of thermal disturbance. 3,477,820, 11-11-69, Cl. 23-253.
Wadsworth, Clarence K.: *See—*
Gardner, Donald S.; and Wadsworth, Clarence K.,3,463,643.
Wadsworth, Clarence K., to United States of America, Army. Radiation process for dehydrated vegetables and fruits. 3,484,253, 12-16-69, Cl. 99-100.
Wadsworth, Francis T., to Columbian Carbon Company. Trimethyl cyclododecatriene process. 3,429,940, 2-25-69, Cl. 260-666.
Wadsworth, Nicolas John; and Watt, William, to National Research Development Corporation. Treatment of carbon fibres and composite materials including such fibres. 3,476,703, 11-4-69, Cl. 260-37.
Waechter, Charles J.; and Kovacs, Lloyd, to Midland-Ross Corporation. Apparatus for trimming and removing neck flash from blown articles. 3,444,604, 5-20-69, Cl. 29-33.

Waechter, Charles J.; and Kovacs, Lloyd. Apparatus for continuously removing flash from blown articles. 3,486,190, 12-30-69, Cl. 18-5.
Waeltz, Ronald: *See*—
Zetterlund, Rune A. E.; and Waeltz, Ronald,3,458,896.
Waermo, Harry, to Aktiebolaget Svenska Flaktfabriken. Vibration reducing support element. 3,455,525, 7-15-69, Cl. 248-15.
Wafios Maschinenfabrik Wagner, Ficker & Schmid: *See*—
Lange, Gerhard, 3,486,372.
Wagar, Albert E.; and Rolfe, Ronald F., to Cluett Peabody & Co., Inc. Garment hanger. 3,485,423, 12-23-69, Cl. 223-85.
Wagele, Rolf, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method of making heat resistant electric cable. 3,452,434, 7-1-69, Cl. 29-624.
Wageneder, Franz. Rotary disintegrator. 3,480,214, 11-25-69, Cl. 241-185.
Wagener, Paul W.; and Downhower, Francis H., Jr., to Westinghouse Electric Corporation. Self-starting oscillator with plural monostable multivibrators. 3,441,872, 4-29-69, Cl. 331-52.
Wagener, Siegfried: *See*—
Lederer, Michael; Lenzmann, Heinrich; and Wagener, Siegfried,3,429,910.
Wagenfuhrer, Heinrich, to Jurid Werke G.m.b.H. Vibration-damping fixing means. 3,455,180, 7-15-69, Cl. 74-574.
Wagenknecht, Rudolf: *See*—
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf,3,432,337.
Moller, Fritz; Groschopp, Heinz; and Wagenknecht, Rudolf,3,454,407.
Wagenmann, Rolf; and Wehle, Gunther, to VEB Mansfeld Kombinat 'W. Pieck'. Process for obtaining pure selenium. 3,433,596, 3-18-69, Cl. 23-209.
Wager, Robert H., Co., Inc.: *See*—
Wager, Robert H., Jr., 3,453,049.
Wager, Robert H., Jr., to Wager, Robert H., Co., Inc. Lens cleaning system. 3,453,049, 7-1-69, Cl. 356-73.
Waggener, Herbert A., to Bell Telephone Laboratories, Incorporated. Process for preparation of stabilized metal film resistors. 3,457,148, 7-22-69, Cl. 204-56.
Waggoner, James N.: *See*—
Vanderbur, John E., Jr.; Waggoner, James N.; and McBrien, Robert M.,3,424,218.
Waghorne, Robert Harry: *See*—
Landrum, Thomas Collum; and Waghorne, Robert Harry,3,427,240.
Landrum, Thomas Collum; and Waghorne, Robert Harry,3,442,787.
Wagle, Joseph A., to General Motors Corporation. Powerplant having a radioactive heat source. 3,435,617, 4-1-69, Cl. 60-105.
Wagle, Joseph A., to General Motors Corporation. Isotope powered photovoltaic device. 3,483,037, 12-9-69, Cl. 136-89.
Wagman, Gerald H.: *See*—
Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A.,3,454,696.
Weinstein, Marvin J.; Luedemann, George M.; and Wagman, Gerald H.,3,458,626.
Wagman, Jack: *See*—
Abelow, Ira; and Wagman, Jack,3,436,837.
Wagner, Adolph A.; and Wagner, Robert A. Pipe coupling. 3,484,830, 12-16-69, Cl. 285-397.
Wagner, Anton Robert: *See*—
Pihlblad, Karl Erik; and Wagner, Anton Robert,3,468,657.
Wagner, Bernard C., to General Electric Company. Method of forming metal boride coating on wire. 3,429,753, 2-25-69, Cl. 148-6.
Wagner, Charles H. Snow plow moldboard with resilient scraping blade. 3,477,149, 11-11-69, Cl. 37-50.
Wagner, Charles L., to Westinghouse Electric Corporation. Differential relaying network. 3,423,634, 1-21-69, Cl. 317-14.
Wagner, Charles R.; Shultz, Andrew; Allen, Robert A.; and Friedman, Cecil A., to Allied Chemical Corporation. Preparation of isocyanate compositions. 3,426,058, 2-4-69, Cl. 260-453.
Wagner, Daniel: *See*—
Frankel, Max; Gertner, David; Wagner, Daniel; and Zilkha, Albert,3,426,002.
Wagner, Dieter: *See*—
Dietz, Erich; Fuchs, Otto; Schinzel, Erich; and Wagner, Dieter,3,420,843.
Wagner, Donald L., to United States of America, Army, mesne. Loader's safety switch. 3,427,922, 2-18-69, Cl. 89-28.
Wagner, Eddie B., to Wagner Mining Scoop, Inc. External differential lock-up. 3,454,125, 7-8-69, Cl. 180-74.
Wagner, Edmond M.: *See*—
McIntosh, Harold A.; and Wagner, Edmond M.,3,462,316.
Wagner, Edward E., to Morris, Philip, Incorporated. Apparatus for attaching container covers by adhesive means. 3,427,932, 2-18-69, Cl. 93-55.1
Wagner, Edward W., to SCM Corporation. Liquid toner. 3,438,904, 4-15-69, Cl. 252-62.1
Wagner Electric Corporation: *See*—
Ake, Nelson E.; and McArtney, John J., 3,459,985.
Atkins, Carl E., 3,421,157.
Atkins, Carl E.; and Ziolkowski, Robert L., 3,435,298.
Bueler, Richard C., 3,429,621.
Bueler, Richard C., 3,431,730.
Bueler, Richard C., 3,441,318.
Bueler, Richard C., 3,448,230.
Bueler, Richard C., 3,450,154.
Bueler, Richard C., 3,450,443.
Bueler, Richard C., 3,463,554.
Bueler, Richard C., 3,469,889.
Bueler, Richard C., 3,472,559.
Carpenter, Walter E.; and Varick, Lawrence, 3,422,302.
Conner, Leonard E., 3,453,516.
Cruse, Oliver B., 3,464,742.
Cruse, Oliver B., 3,479,096.
Cruse, Oliver B., 3,480,334.
Demas, Nickolas P., 3,441,332.
Du Bois, Richard, Jr.; and Rucki, George;, 3,481,062.
Falk, Edward J., 3,464,741.
Fites, Cyril B., 3,450,008.
Kersting, Raymond J., 3,439,323.
Kersting, Raymond J., 3,463,556.
Kersting, Raymond J., 3,482,884.
Kratochvil, Harry, 3,444,513.
Lewis, Herbert D., 3,448,340.
Machek, John A., 3,464,523.
Papin, Joseph E., 3,427,416.
Quinn, Halsey P., 3,460,020.
Rycroft, Alan K., 3,447,016.
Shackelford, Charles L., 3,446,927.
Siiberg, Hemming G., 3,470,515.
Siiberg, Hemming G., 3,483,436.
Sisk, Hollis D., 3,465,188.
Stelzer, Raymond F., 3,435,844.
Stelzer, Raymond F., 3,439,139.
Voorman, Henry, Jr., 3,454,941.
Wagner, Emil O. Expandable camper body. 3,447,831, 6-3-69, Cl. 296-27.
Wagner, Ernest W.: *See*—
De Boeuf, James L.; Eftefield, Larry G.; Moser, Raymond L; and Wagner, Ernest W.,3,471,951.
Eftefield, Larry G.; Liess, Richard K.; Miller, Lawrence J.; and Wagner, Ernest W.,3,423,853.
Wagner, Eugene R., to Dow Chemical Company, The. Method for the production of 1,4,5,6- tetrahydro-as-triazines. 3,462,431, 8-19-69, Cl. 260-248.
Wagner, Eugene R., to Dow Chemical Company, The. 3α,7α-Di-substituted-indanes. 3,485,850, 12-23-69, Cl. 260-326.
Wagner, Eugene R.; and Rudzik, Allen D., to Dow Chemical Company, The. Anticonvulsant compositions and method employing naphthalenedicarboximide compounds. 3,463,857, 8-26-69, Cl. 424-274.
Wagner, Eugene, to Dow Chemical Company, The. N-dialkylaminoalkyl-naphthalenedicarboximides. 3,450,714, 6-17-69, Cl. 260-326.
Wagner, Frank A., to Goodrich, B. F., Company, The. Crosslinked acrylic acid interpolymers. 3,426,004, 2-4-69, Cl. 260-80.3
Wagner, Frank Larkin: *See*—
D'Errico, Michael Joseph; and Wagner, Frank Larkin,3,433,659.
Wagner, Fritz W., to Kleinewefers, Joh., Sohne Maschinenfabrik. Contact-free temperature-sensing device. 3,427,882, 2-18-69, Cl. 73-351.
Wagner, George M.; and Schad, Rex A., to Hooker Chemical Corporation. Flame retardant cellulosic material composition and method for making same. 3,428,480, 2-18-69, Cl. 117-136.
Wagner, Gerhard: *See*—
Nagel, Peter; and Wagner, Gerhard,3,468,078.
Wagner Guenther Pelikan-Werke: *See*—
Rausch, Friedrich-Wilhelm, 3,424,538.
Wagner, Gunter: *See*—
Muller, Arno; and Wagner, Gunter,3,442,665.
Wagner, Gunther, Pelikan-Werke: *See*—
Stiel, Karl-Heinz, 3,432,874.
Wagner, Hans A., to Searle, G. D., & Co. 2,4-Diazido-6-phenylpyrimidines and intermediates. 3,455,921, 7-15-69, Cl. 260-251.
Wagner, Hans A., to Searle, G. D., & Co.9,10-Dihydo-4H-pyrazolo[1',5':1,6]pyrido[3,4-β] indole-2,3-dicarboxylic acids and esters. 3,459,758, 8-5-69, Cl. 260-295.5
Wagner, Hans A., to Searle, G. D., & Co.1,2,3,4-Tetrahydro-2-nitroso-9H-pyrido [3,4-β]- indole-3-carboxylic acid. 3,476,764, 11-4-69, Cl. 260-295.
Wagner, Hans A., to Searle, G. D., & Co.(6-Phenylpyrimidine)mono bis[1H-1,2,3,-triazole-4, 5-dicarboxylic acid] lower alkyl esters. 3,479,357, 11-18-69, Cl. 260-256.4
Wagner, Hans A., to Searle, G. D., & Co. 2-Anilino-5-methyl-6-phenylpyrimidines and congeners. 3,481,932, 12-2-69, Cl. 260-256.4
Wagner, Hans O., to Schiess Aktiengesellschaft. Horizontal boring machine for machining the interior of housings. 3,469,474, 9-30-69, Cl. 77-3.

Wagner, Harald: *See*—
Knotik, Karl; Leichter, Peter; and Wagner, Harald,3,453,091.
Wagner, Harold H., to Caterpillar Tractor Company. Engine safety controls. 3,435,813, 4-1-69, Cl. 123-140.
Wagner, Harold H., to Caterpillar Tractor Company. Hydraulic-electric speed control governor. 3,438,361, 4-15-69, Cl. 123-99.
Wagner, Harold H., to Caterpillar Tractor Company. Density limiting turbocharger control system. 3,464,202, 9-2-69, Cl. 60-13.
Wagner, Harry R. Apparatus for washing and waxing cars. 3,447,505, 6-3-69, Cl. 118-7.
Wagner, Heinrich; and Jablonsky, Erich, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Crank assembly for power steering. 3,436,974, 4-8-69, Cl. 74-105.
Wagner, Heinrich; and von Fraunberg, Hans-Ch., to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Steering spindle bearing support. 3,447,394, 6-3-69, Cl. 74-424.8
Wagner, Heinz. Device for amusement or educational purposes comprising magnetically attractable marker means. 3,479,034, 11-18-69, Cl. 273-131.
Wagner, Herbert E.; and Karlen, Harvey R., to Cory Corporation. Fluid supply apparatus. 3,443,590, 5-13-69, Cl. 137-604.
Wagner, Herbert E.: *See*—
Karlen, Harvey R.; Wagner, Herbert E.; and Eisendrath, David C.,3,467,130.
Wagner, Herbert M.: *See*—
Southern, William C.; Wagner, Herbert M.; and Scholz, Raymond J.,3,466,000.
Wagner, Herman L.; and Hardy, George F., to Celanese Corporation. Polyoxymethylene compositions. 3,450,665, 6-17-69, Cl. 260-37.
Wagner, Horst: *See*—
Muller, Sebastian; Klarner, Ewald; and Wagner, Horst,3,463,474.
Wagner, Howard A., to Westinghouse Electric Corporation. Linear load positioner apparatus. 3,449,604, 6-10-69, Cl. 310-14.
Wagner, Jochim: *See*—
Freytag, Helmut; Reichold, Ernst; Bayer, Otto; Bockmann, Walter; and Wagner, Jochim,3,425,985.
Wagner, John L., to Union Carbide Corporation. Selective adsorption process. 3,430,418, 3-4-69, Cl. 55-25.
Wagner, Josef, Ing., Firma: *See*—
Vogt, Alfred, 3,448,810.
Wagner, Josef. High pressure pump for sprayer. 3,430,577, 3-4-69, Cl. 103-221.
Wagner, Josef. Diaphragm pump. 3,440,970, 4-29-69, Cl. 103-148.
Wagner, Josef. Liquid atomizer. 3,445,068, 5-20-69, Cl. 239-332.
Wagner, Josef. High pressure pump for sprayer. 3,476,052, 11-4-69, Cl. 103-41.
Wagner, Josef; and Schlemmer, Wolfgang, to Chemisch-Pharmazeutische Fabrik Adolf Klinge & Co. Process of producing a water soluble horse chestnut saponin of low hemolytic activity and product. 3,450,691, 6-17-69, Cl. 260-210.5
Wagner, Joseph P., to Robertshaw Controls Company. Controlling system with safety relay and controlling and indicating units. 3,439,693, 4-22-69, Cl. 137-26.
Wagner, Karl: *See*—
Kremp, Rudolf; Wagner, Karl; Engelsmann, Dieter; and Winkler, Alfred,3,463,069.
Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with flash unit. 3,438,314, 4-15-69, Cl. 95-11.
Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Flash unit for cameras. 3,439,597, 4-22-69, Cl. 95-11.5
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl,3,465,656.
Wick, Richard; Wagner, Karl; Von Albedyll, Joachim; and Renner, Otfried,3,454,755.
Wick, Richard; Wagner, Karl; von Albedyll, Joachim; Renner, Otfried; and Hennig, Fridolin,3,466,992.
Wagner, Kenneth L., Jr., to Hi-Shear Corporation. Tools having teeth with cutting edges for gripping and disassembling fasteners. 3,457,812, 7-29-69, Cl. 81-53.
Wagner, Kuno: *See*—
Bayer, Otto; Schrotter, Rudolf; Siefken, Werner; and Wagner, Kuno,3,437,609.
Kocher, Ernst-Ulrich; Wagner, Kuno; Von Der Emden, Wolfgang; and Dankert, Gerhard,3,477,992.
Wagner, Kuno, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of sulphones. 3,446,807, 5-27-69, Cl. 260-248.
Wagner, Kuno; Bayer, Otto; and Schroter, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Polyether polyisocyanato biurets. 3,441,588, 4-29-69, Cl. 260-453.
Wagner, Kuno; Scheurlen, Hans; and Kritzler, Helmuth, to Farbenfabriken Bayer Aktiengesellschaft. Stabilization of acylated or alkylated polyoxymethylenes. 3,448,169, 6-3-69, Cl. 260-858.
Oertel, Gunter; Holtschmidt, Hans; Wagner, Kuno; and Zenner, Karl-Friedrich,3,480,591.
von der Emden, Wolfgang; Simmler, Walter; and Wagner, Kuno,3,483,161.
Wagner, Leonard S.: *See*—
Greenberg, Martin; and Wagner, Leonard S.,3,462,842.
Wagner, Ludwig: *See*—
Gerretz, Paul; and Wagner, Ludwig,3,453,010.
Wagner, Marvin. Sutures and prosthetic patches. 3,454,011, 7-8-69, Cl. 128-335.5
Wagner, Maurice Reginald, to Green, E., and Son Limited. Heat exchanger supports. 3,459,258, 8-5-69, Cl. 165-67.
Wagner, Milan F. Modular type electrical outlet. 3,437,738, 4-8-69, Cl. 174-55.
Wagner, Milan Francis. Modular unit outlet. 3,437,737, 4-8-69, Cl. 174-55.
Wagner Mining Scoop, Inc.: *See*—
Wagner, Eddie B., 3,454,125.
Wagner, Otto: *See*—
Huesker-Stiewe, Karl; and Wagner, Otto,3,486,341.
Wagner, Paul August, to Riehl, Henry, & Son. Batten lifting mechanism for loom. 3,483,899, 12-16-69, Cl. 139-171.
Wagner, Paul D.: *See*—
Grooms, Franklin H.; and Wagner, Paul D.,3,441,764.
Scardina, Virgil R.; Wagner, Paul D.; and Brezic, Raymond L.,3,463,955.
Wagner, Paul H.: *See*—
Reber, Martin R.; and Wagner, Paul H.,3,453,182.
Wagner, Philip Lyle, to Du Pont de Nemours, E. I., and Company. Process for polymerizing propiolactones using tertiary phosphine catalysts. 3,476,715, 11-4-69, Cl. 260-78.3
Wagner, Regina D.: *See*—
Bowers, Frederic M.; and Wagner, Regina D.,3,440,015.
Wagner Research Corporation,: *See*—
Alford, Lynn O., Jr., 3,429,568.
Hawley, George F., 3,477,397.
Wagner, Richard C.: *See*—
Harper, John D.; Breyer, Frederick; and Wagner, Richard C.,3,431,745.
Wagner, Richard E.: *See*—
Wilcox, William L.; and Wagner, Richard E.,3,476,383.
Wagner, Richard L., to Hercules Incorporated. Coated polymer. 3,440,959, 4-29-69, Cl. 101-453.
Wagner, Richard L., to Hercules Incorporated. Coated plastic. 3,470,013, 9-30-69, Cl. 117-70.
Wagner, Richard S.: *See*—
Arthur, John R., Jr.; Morton, Jack A.; Pfann, William G.; and Wagner, Richard S.,3,466,485.
Wagner, Robert A.: *See*—
Wagner, Adolph A.; and Wagner, Robert A.,3,484,830.
Wagner, Robert E., Jr.: *See*—
Meyer, Edwin F.; and Wagner, Robert E., Jr.,3,478,575.
Wagner, Robert G.: *See*—
Edlund, Oscar T.; and Wagner, Robert G.,3,420,136.
Wagner, Robert G., to Caterpillar Tractor Company. Pivoted ejector for earthmoving scrapers. 3,465,458, 9-9-69, Cl. 37-129.
Wagner, Robert W.: *See*—
Hall, George D.; Huber, Robert H.; and Wagner, Robert W.,3,430,084.
Diehl, Donald S.; and Wagner, Robert,3,446,912.
Wagner, Ross I.; Grant, Louis R., Jr.; and Gunderloy, Frank C., Jr.Reaction products of alane terminated beryllium hydride with B_2H_6, Be(BH) or B_4H_{10}. 3,484,315, 12-16-69, Cl. 149-22.
Wagner, Ulrich: *See*—
Boyne, William J.; Little, Jack R.; and Wagner, Ulrich,3,432,993.
Friz, Hans; Neumayr, Franz; Reichert, Martin; Teltschik, Walter; and Wagner, Ulrich,3,452,114.
Wagner, Walter D.; King, Philip E.; Caloccia, Ernest; and Robbins, Robert, to Sanders Associates, Inc. Miniature microwave broadband detector devices. 3,470,483, 9-30-69, Cl. 329-160.
Wagner, Warren L., to Owens-Illinois, Inc. Sealed package and method of producing same. 3,473,684, 10-21-69, Cl. 215-40.
Wagner, Warren L.; and Wheaton, Jack M., to Owens-Illinois, Inc. Closure cap having flexible seal and opener. 3,465,906, 9-9-69, Cl. 215-40.
Wagner, Werner, to Schneider, Jos., & Co. High-speed photographic or cinematographic objective. 3,472,576, 10-14-69, Cl. 350-176.
Wagner, Werner, to Schneider, Jos, & Co., Optische Werke. Varifocal optical objective. 3,482,900, 12-9-69, Cl. 350-176.
Wagner, Wesley R.; and Baylon, Charles A., to Automated Towers Corporation. Cable arrangement for a laterally movable load transfer device. 3,439,815, 4-22-69, Cl. 214-16.1
Wagner, Willem M.; and Klootwijk, Arie, to Shell Oil Company. Continuous process polymerization of beta-lactones. 3,462,398, 8-19-69, Cl. 260-78.3
Wagner, William F.: *See*—
Mac Lean, Archibald, Jr.; Maskell, Richard M.; Sill, Thomas E.; and Wagner, William F.,3,463,357.
Wagner, William H., to Bayly, Inc. Military style uniform hat. 3,482,266, 12-9-69, Cl. 2-180.
Wagner, William Sherwood: *See*—
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley,3,444,863.

Wagner, William S., to Bliss, E. W., Company. Apparatus for removing covering material. 3,462,052, 8-19-69, Cl. 225-2.
Schmeltzer, Paul F.; and Wagner, William S.,3,452,577.
Wagner, William, to Watsco, Inc. Spring retractable line piercing valve. 3,428,075, 2-18-69, Cl. 137-318.
Wagner, Wolf-Helmut: *See*—
Winkelmann, Erhardt; and Wagner, Wolf-Helmut,3,478,036.
Winkelmann, Erhardt; and Wagner, Wolf-Helmut,3,483,207.
Wagner-Jauregg, Theodor: *See*—
Haring, Marc; Molnar, Istvan; and Wagner-Jauregg, Theodor,3,431,342.
Molnar, Istvan; Wagner-Jauregg, Theodor; Jahn, Ulrich; and Mixich, Georg,3,482,024.
Wagnerberger, Wolfgang: *See*—
Heissmeier, Walter; and Wagnerberger, Wolfgang,3,451,050.
Heissmeier, Walter; Klein, Karl; and Wagnerberger, Wolfgang,3,474,430.
Wagstaff, Frank E. Elemental boron-containing vitreous silica bodies and method. 3,472,667, 10-14-69, Cl. 106-52.
Wagstaff, Robert A., to Sperry Rand Corporation. Lever mounting. 3,477,308, 11-11-69, Cl. 74-504.
Wagstaffe, Aubrey H., to London Bankside Products Limited. Electric lamp bulb holders. 3,477,062, 11-4-69, Cl. 339-88.
Wagstaffe, Aubrey Hubert, to Haines and Sherman Limited. Hydraulic control system. 3,423,937, 1-28-69, Cl. 60-54.5
Wagtskjold, Halvor Paul; Sundin, George H.; and Carlson, Lorien A., to Conwed Corporation. Punched acoustical board. 3,470,978, 10-7-69, Cl. 181-33.
Wah, Joe M.; and Johnson, Theodore A., to Building Research, Inc. Building system. 3,474,582, 10-28-69, Cl. 52-263.
Wahba, Isaac J., to General Mills, Inc. Storage stable, ready to spread frostings. 3,464,830, 9-2-69, Cl. 99-139.
Wahl, Buddy D.: *See*—
Van Hartesveldt, Carroll H.; and Wahl, Buddy D.,3,450,032.
Wahl Clipper Corporation: *See*—
Fox, James H., 3,458,932.
Hixson, Wilbur H.; Jording, Clifford H.; and Wahl, John F., 3,440,681.
Wahl, John F., 3,430,342.
Wahl, Frank: *See*—
Dornberger, Georg; and Wahl, Frank,3,470,463.
Wahl, Franklin W., 15% to Mann, Owen A. Weideman, John H., and 19% to Parsen, Edward M. Toy rocket. 3,445,954, 5-27-69, Cl. 46-86.
Swajger, Roger A.; and Wahl, Frank,3,485,994.
Wahl, Frederick William; and Beinhaur, Ernest Lloyd, to AMP Incorporated. Electrical terminals to terminate conductor members. 3,462,543, 8-19-69, Cl. 174-94.
Wahl, Frederick William: *See*—
Mixon, James Lenhart, Jr.; and Wahl, Frederick William,3,458,996.
Wahl, Harold F., to Rader Pneumatics Incorporated. Conveyor apparatus. 3,424,295, 1-28-69, Cl. 198-170.
Wahl, Harold F.; and Nippert, Harold, to Rader Pneumatics Incorporated. Wood fractionator. 3,430,873, 3-4-69, Cl. 241-55.
Wahl, Hartmut: *See*—
Mustacchi, Carlo; Gautsch, Othmar; and Wahl, Hartmut,3,427,702.
Wahl, Henri: *See*—
Raudnitz, Jean P. M.; and Wahl, Henri,3,445,471.
Wahl, Horst: *See*—
Schlosshauer, Herbert; and Wahl, Horst,3,434,017.
Wahl, John F., to Wahl Clipper Corporation. Adjustable clipper head. 3,430,342, 3-4-69, Cl. 30-201.
Wahl, John F.: *See*—
Hixson, Wilbur H.; Jording, Clifford H.; and Wahl, John F.,3,440,681.
Wahl, John S.: *See*—
Locke, Stanley; Sherman, Harold; and Wahl, John S.,3,483,376.
Wahl, Josef: *See*—
Reichardt, Wolfgang; Eichler, Dieter; Scholl, Hermann; and Wahl, Josef,3,463,130.
Wahl, Karlheinz: *See*—
Hagemann, Franz Josef; and Wahl, Karlheinz,3,457,754.
Wahl, Winton W.: *See*—
Parker, Patrick N.; and Wahl, Winton W.,3,448,800.
Wahlberg, Eric C. Postal vending machine. 3,451,517, 6-24-69, Cl. 194-2.
Wahlberg, Eric C. Variable value postage machine. 3,451,519, 6-24-69, Cl. 194-4.
Wahlberg, Eric C. Portable heating appliance. 3,467,816, 9-16-69, Cl. 219-437.
Wahlberg, Yngve: *See*—
Thafvelin, Karl Gunnar; Wahlberg, Yngve; and Bockstiegel, Georg Heinrich Artur Gerhard,3,462,260.
Wahlborg, Harold J.; and Bond, William C., Jr., to Copolymer Rubber & Chemical Corporation. Interpolymers formed from ethylene, 1-monoolefins and a 4-alkylidene cyclopentene. 3,487,053, 12-30-69, Cl. 260-79.5
Wahldick, Harold G., Jr.: *See*—
Parker, William S.; and Wahldick, Harold G., Jr.,3,475,053.
Wahle, Gunter, to Hauni-Werke Korber & Co., KG. Apparatus for regulating the transfer of heat. 3,431,398, 3-4-69, Cl. 219-388.
Wahle, Gunter; and Lorenzen, Heinz-Christen, to Hauni-Werke Korber & Co. K. G. Apparatus for producing and applying tear strips. 3,431,827, 3-11-69, Cl. 93-1.
Wahler, Richard Otto: *See*—
Kaiser, Edward William; Rein, Arnold Robert; and Wahler, Richard Otto,3,481,809.
Wahlig, Charles F.: *See*—
Kissa, Erik; Manos, Philip; and Wahlig, Charles F.,3,453,038.
Wahlig, Helmut: *See*—
Rogalski, Werner; Wahlig, Helmut; and Hepding, Ludwig,3,461,161.
Wahlin, Lars E., to Colutron Corporation. Beam scanner for indicating the dimensions and configuration of a beam of charged particles. 3,465,244, 9-2-69, Cl. 324-71.
Wahlmann, Ernst, to Rentrop, P. A., GmbH. Spring frameworks. 3,475,016, 10-28-69, Cl. 267-87.
Wahlstrom, Sven Erik, to Stanford Research Institute. Electronically controlled microelectronic cellular logic array. 3,473,160, 10-14-69, Cl. 340-172.5
Wahn, Harvey L., to Corduroy Rubber Co. Method and apparatus for punching. 3,459,350, 8-5-69, Cl. 225-2.
Wai, Kee-Neng, to Biorex Laboratories Limited. Dosage unit forms for the administration of medicaments. 3,444,290, 5-13-69, Cl. 424-4.
Waight, Francis H.; and MacPhail, Alexander C. B., to Shell Oil Company. Synthetic lubricants containing phosphorothionates and arylamines. 3,429,813, 2-25-69, Cl. 252-46.7
Wainberg, Daniel. Method and means of producing multiform containers from pre-cut blanks in a container-forming machine. 3,427,931, 2-18-69, Cl. 93-51.
Wainberg, Daniel. Flapped carton closure and sealing apparatus. 3,457,701, 7-29-69, Cl. 53-376.
Wainberg, Daniel. Bags and carrying handles therefor. 3,463,381, 8-26-69, Cl. 229-54.
Wainer, Eugene, to Horizons, Incorporated. Photographic process for the direct production of positive images on metal. 3,424,580, 1-28-69, Cl. 96-29.
Wainer, Eugene; and Shirey, John E., to Horizons Incorporated, a division of Horizons Research Incorporated. Increased speed in non-silver light sensitive systems by incorporating therein organic N-oxides. 3,481,739, 12-2-69, Cl. 96-90.
Wainer, Eugnee, to Horizons Research Incorporated. Sensitivity of triarylmethane light sensistive systems. 3,486,898, 12-30-69, Cl. 96-90.
Wainwright, Claire R., to Telonic Industries, Inc. System for increasing frequency spectrum of sweep generator marker signal. 3,427,536, 2-11-69, Cl. 324-57.
Wainwright, Claire R. System for tilting frequency marker in sweep generator display. 3,441,843, 4-29-69, Cl. 324-57.
Wainwright, William H. Canopy landing structure. 3,456,909, 7-22-69, Cl. 244-114.
Wait, Hershey L., to General Box Company. Collapsible pallet box. 3,459,321, 8-5-69, Cl. 217-16.
Wait, Irving Stringham, to Rocket Development Corporation. Rocket engine igniter. 3,422,763, 1-21-69, Cl. 102-49.7
Wait, John D., Jr.: *See*—
Austin, Howard B.; and Wait, John D., Jr.,3,429,471.
Wait, William H. Lure storage. 3,484,980, 12-23-69, Cl. 43-25.2
Waite, Hal R.: *See*—
Arikawa, Yoshiyuki; and Waite, Hal R.,3,462,325.
Waite, Harold H., to National Forge Company. High pressure generating device. 3,482,401, 12-9-69, Cl. 60-54.5
Waite, Harry T., Jr., to Fanner Manufacturing Company, The. Punching T. 3,433,103, 3-18-69, Cl. 77-38.
Waite, John C. Method of manufacturing composite flooring material. 3,481,810, 12-2-69, Cl. 156-242.
Waite, Warren A.: *See*—
Hebert, John R.; and Waite, Warren A.,3,430,572.
Waits, Robert K., to Fairchild Camera and Instrument Corporation. Thin-film resistors. 3,458,847, 7-29-69, Cl. 338-320.
Wajda, Edward Stanley: *See*—
Krohl, Robert James; and Wajda, Edward Stanley,3,437,890.
Wajda, Michael L.: *See*—
Jacobs, Herbert V.; and Wajda, Michael L.,3,425,375.
Wajdik, Joseph S., to Spectrol Electronics Corporation. Multi-turn indicator dial system. 3,450,091, 6-17-69, Cl. 116-133.
Wajs, Philip I., to Bailey Meter Company. Static function generator. 3,436,559, 4-1-69, Cl. 307-229.
Wakabayashi, Kinjiro: *See*—
Brooks, Robert; Wakabayashi, Kinjiro; and Kida, Nobutoshi,3,467,115.
Wakabayashi, Rinske, to Aiwa Co., Ltd. Device for driving recording medium. 3,471,104, 10-7-69, Cl. 242-55.12
Wakabayasi, Syoichi: *See*—
Hiraga, Teitaro; Wakabayasi, Syoichi; Towtari, Yoshishiga; and Inuyama, Tadao,3,481,876.

Wakai, Noboru, to Dai Nihon Bungu Kabushiki Kaisha, (also trading as the Japan Stationery Co., Ltd.). Ink writing implement. 3,463,597, 8-26-69, Cl. 401-206.
Wakai, Shuzo; and Kobayashi, Takeji, to Matsushita Electronics Corporation. Electric refrigerator with defrosting means. 3,483,919, 12-16-69, Cl. 165-30.
Wakaki, Shigetoshi: *See*—
Matsui, Masanao; Uzo, Keizo; Yamada Yasuhiro; and Wakaki, Shigetoshi,3,420,846.
Matsui, Masanao; Uzu, Keizo; Yamada, Yasuhiro; and Wakaki, Shigetoshi,3,444,182.
Matsui, Masanao; Yamada, Yasuhiro; Hirata, Tadashi; and Wakaki, Shigetoshi,3,450,705.
Matsui, Masano; Yamada, Yasuhiro; Uzu, Keigo; Hirata, Tadashi; and Wakaki, Shigetoshi,3,429,894.
Wakamatsu, Hachiro; Sato, Jiro; Takesada, Masahiko; and Sato, Seiicho, to Ajinomoto Co., Inc.Method of preparing a lower-alkyl -β formylpropionate and related compounds. 3,445,505, 5-20-69, Cl. 260-483.
Wakamatsu, Hachiro; Takesada, Masahiko; and Sato, Jiro, to Ajinomoto Co., Inc. Process of producing hydroquinone. 3,420,895, 1-7-69, Cl. 260-621.
Wakamatsu, Nobuyuki: *See*—
Wakatsuki, Masao; Aoki, Toshi; Takasu, Shinichiro; and Wakamatsu, Nobuyuki,3,442,616.
Wakatsuki, Masao; Aoki, Toshio; and Wakamatsu, Nobuyuki,3,457,043.
Wakatsuki, Masao; Aoki, Toshio; Wakamatsu, Nobuyuki; and Takasu, Shinichiro,3,436,183.
Wakamatsu, Shigeru: *See*—
Ito, Yoshikazu; Wakamatsu, Shigeru; Hara, Yoichiro; and Morino, Jiro,3,479,264.
Wakamatsu, Shigeru; and Hosaka, Shuntaro, to Toyo Rayon Kabushiki Kaisha. Process for manufacture of adiponitrile. 3,475,305, 10-28-69, Cl. 204-158.
Wakamatsu, Shigeru; and Hosaka, Shuntaro, to Toyo Rayon Kabushiki Kaisha. Process for preparing 1,2-dicyanocyclobutane. 3,483,103, 12-9-69, Cl. 204-158.
Wakamiya, Kinji: *See*—
Hoshi, Kinji; and Wakamiya, Kinji,3,471,754.
Wakamiya, Kinji, to Sony Corporation. Method of making a semiconductor junction by diffusion. 3,442,723, 5-6-69, Cl. 148-186.
Wakatsuki, Masao: *See*—
Inuzuka, Hideo; and Wakatsuki, Masao,3,436,182.
Wakatsuki, Masao; Aoki, Toshi; Takasu, Shinichiro; and Wakamatsu, Nobuyuki. Tokyo Shibaura Electric Co., Ltd. Method of making synthetic diamond crystals. 3,442,616, 5-6-69, Cl. 23-209.1
Wakatsuki, Masao; Aoki, Toshio; and Hayashi, Hiroaki, to Tokyo Shibaura Electric Co., Ltd. Method of making synthetic diamond crystals. 3,442,615, 5-6-69, Cl. 23-209.1
Wakatsuki, Masao; Aoki, Toshio; and Wakamatsu, Nobuyuki, to Tokyo Shibaura Electric Co., Ltd. Method of converting carbonaceous material to diamond. 3,457,043, 7-22-69, Cl. 23-209.1
Wakatsuki, Masao; Aoki, Toshio; Wakamatsu, Nobuyuki; and Takasu, Shinichiro, to Tokyo Shibaura Electric Co., Ltd. Method for preparing diamond crystals. 3,436,183, 4-1-69, Cl. 23-209.1
Wakayama Tetsuko Kabushiki Kaisha: *See*—
Okazaki, Narukazu, 3,465,552.
Wakayoshi, Toshio; Ohtani, Masasuke; Takahashi, Masao; Ashikaga, Tadao; Meada, Unpei; and Sato, Mamoru, to Sumitomo Chemical Company, Ltd., and Kurashiki Rayon Co., Ltd. Decorative laminated article and preparation thereof. 3,484,334, 12-16-69, Cl. 161-151.
Wakazaki, Hiroshi: *See*—
Yamada, Kazuyoshi; Wakazaki, Hiroshi; and Doi Juro,3,433,197.
Wake, Kiyoyasu. Hinge type door check. 3,449,788, 6-17-69, Cl. 16-54.
Wakeam, Ralph D.: *See*—
Oakes, Lloyd; Wakeam, Ralph D.; and Hartwell, Sidney J.,3,427,530.
Wakeem, Dale G. Container for aging whiskey. 3,456,827, 7-22-69, Cl. 217-72.
Wakefield, Charles E., Jr., to Atlantic Richfield Company. Method for injecting a cleaning pig into a flow line. 3,457,932, 7-29-69, Cl. 137-12.
Wakefield, Donald Keith, to Solartron Electronic Group Limited, The. Fluid density meters. 3,444,723, 5-20-69, Cl. 73-32.
Wakefield Engineering, Inc.: *See*—
Coe, Thomas D., 3,448,798.
Wakefield, Gayle S.: *See*—
Perrin, Donald E.; and Wakefield, Gayle S.,3,430,303.
Wakefield, Gene F.: *See*—
Bracken, Ronald C.; Stroup, Ralph F.; and Wakefield, Gene F.,3,459,504.
Wakefield, Gene F., to Texas Instruments, Incorporated. Method of preparing a silicon carbide whisker reinforced silicon composite material. 3,459,842, 8-5-69, Cl. 264-56.
Oualline, Charles M., Jr.; and Wakefield, Gene F.,3,471,321.
Wakefield, Timothy A.; and Foley, Preston R., Jr., to Le Blond, R. K., Machine Tool Co., The. Tool storage and handling mechanism. 3,465,890, 9-9-69, Cl. 211-1.5
Wakefield, Timothy A.: *See*—
Burroughs, Robert K.; and Wakefield, Timothy A.,3,443,310.
Wakeford, Brian R.: *See*—
Dukek, William G.; and Wakeford, Brian R.,3,478,578.
Wakelin, John Russell. Torque transmitting coupling. 3,469,417, 9-30-69, Cl. 64-12.
Wakely, Wilbur T., to Texas Instruments, Incorporated. Modular packages for semiconductor devices. 3,483,308, 12-9-69, Cl. 174-52.
Wakeman, Alden Harvey; Roahen, Dan Crabill; and Knox, Rodney Lee, to St. Regis Paper Company. Apparatus for the production of cottage cheese. 3,465,439, 9-9-69, Cl. 31-46.
Wakeman, Clifford M., to Mather Company, The. Control device for stabilizing articulated vehicles. 3,420,548, 1-7-69, Cl. 280-432.
Wakeman, Reginald L., to Millmaster Onyx Corporation. Method of imparting to hydrophobic textile materials antistatic properties. 3,471,319, 10-7-69, Cl. 117-139.5
Wakeman, Reginald L., to Millmaster Onyx Corporation. Crystalline alkyl dimethyl pseudocuminyl ammonium chlorides. 3,479,406, 11-18-69, Cl. 260-567.6
Wakeman, Reginald L.; and Coates, Joseph F., to Millmaster Onyx Corporation. Quaternary ammonium hydroxamates. 3,427,316, 2-11-69, Cl. 260-286.
Wakeman, Reginald L.; and Coates, Joseph F., to Millmaster Onyx Corporation, mesne. Quaternary ammonium salts of glyceryl sulfates and sulfonates. 3,431,265, 3-4-69, Cl. 260-286.
Wakeman, Reginald L.; and Coates, Joseph F., to Millmaster Onyx Corporation. Quaternary ammonium salts of alcohol ether sulfates. 3,435,039, 3-25-69, Cl. 260-286.
Wakeman, Reginald L.; and Shay, Edward Griffin, to Millmaster Onyx Corporation. Preparation of tertiary amines. 3,471,562, 10-7-69, Cl. 260-583.
Wakeman, Reginald L.: *See*—
Petrocci, Alfonso N.; Prodo, Kenneth W.; Shay, Edward G.; and Wakeman, Reginald L.,3,472,939.
Wakeman, Rginald L.: *See*—
Findlan, John C.; Sorrentino, Ralph P.; and Wakeman, Rginald L.,3,484,523.
Waku, Shigeru, to Nippon Telegraph and Telephone Public Corporation. High dielectric constant ceramic material and method of producing same. 3,473,958, 10-21-69, Cl. 117-200.
Walander, Karl Ove Torgney. Aircraft arresting device. 3,454,244, 7-8-69, Cl. 244-110.
Walaschewski, Engelbert: *See*—
Nutzel, Karl; Noll, Walter; and Walaschewski, Engelbert,3,485,863.
Walaschewski, Engelbert; Steinbach, Hans-Horst; Oetke, Walter; and Erdmenger, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Process for concentrating by evaporation mixtures of silicon dust or residue and alkyl or aryl chlorosilanes. 3,423,842, 1-28-69, Cl. 34-14.
Walberg, Arvid C., to Fischer, H. G., & Co. Spray gun. 3,463,121, 8-26-69, Cl. 118-631.
Walberg, Maynard E.; and Moe, Richard G., to Allis-Chalmers Manufacturing Company. Implement hitch. 3,420,313, 1-7-69, Cl. 172-7.
Walborn, Ray C., Jr.: *See*—
Schottmiller, John C.; and Walborn, Ray C., Jr.,3,468,705.
Walbridge, Derek John: *See*—
Farkas, Ferenc Karoly; Walbridge, Derek John; and Foot, John Rodney,3,433,753.
Walbridge, Lyman H., to Fenwal, Incorporated. Control system for gas fired heating apparatus. 3,443,752, 5-13-69, Cl. 236-15.
Walbridge, Lyman, to Fenwal Incorporated. Pulsed spark gas ignition and fuel control system. 3,441,356, 4-29-69, Cl. 431-66.
Walbro Corporation: *See*—
Boylan, Carol Clark, 3,430,461.
O'Connor, Alton J., 3,470,824.
Walby, John W., to Rupert Manufacturing Company. Molding pin, matrix, and molding assembly for manufacture of reflective devices. 3,443,281, 5-13-69, Cl. 18-44.
Walch, Allan P., to United Aircraft Corporation. Mounting for a glow discharge cathode. 3,454,812, 7-8-69, Cl. 313-238.
Walchle, David L.; Hudson, Raymond A.; and Sekulich, Stephen A., to Mather Company, The. Composite molded plastic articles and the method for producing same. 3,443,845, 5-13-69, Cl. 308-3.5
Walco Electric Company: *See*—
Bellem, Robert L., 3,422,241.
Leath, Colin W.; Waldman, Myron R.; and Vallante, Thomas E., 3,476,910.
Waldman, Myron R.; and Leath, Colin W., 3,448,242.
Walcott, Van R., Jr., to Continental Carbon Company. Method of preparing carbon black-wax pellets. 3,429,958, 2-25-69, Cl. 264-117.
Wald, Herman. Remote group metering of electric energy for multistory buildings with current transformer. 3,458,810, 7-29-69, Cl. 324-127.

Wald, Herman. Three current winding single stator network meter for 3 wire 120/208 volt service. 3,484,690, 12-16-69, Cl. 324-107.
Wald, Samuel K.: *See—*
Beckman, Melvin H.; Unter, Robert K.; and Wald, Samuel K.,3,434,263.
Wald, Samuel K.; and Whittom, Robert M., to Keystone Consolidated Industries, Inc. Garage door roller assembly. 3,460,189, 8-12-69, Cl. 16-98.
Wald, Stephen A.; and Winding, Charles C. Differential thermal analysis method and means employing high frequency heating. 3,477,274, 11-11-69, Cl. 73-15.
Waldbauer, Wilhelm, to Fit Container A.G. Method and apparatus for producing glued folded boxes. 3,459,105, 8-5-69, Cl. 93-51.
Waldburger, Heinz; and Ludin, Rolf, to Centre Electronique Horloger S.A. Electromechanical watch. 3,449,904, 6-17-69, Cl. 58-23.
Walde, Robert A.: *See—*
Erby, William A.; Erner, William E.; Skaptason, Johann S.; and Walde, Robert A.,3,472,004.
Flinn, Richard A.; Sobell, Richard S.; Swigar, Andrew A.; and Walde, Robert A.,3,425,844.
Swigar, Andrew A.; and Walde, Robert A.,3,429,906.
Waldecker, Donald E. Preliminary lubrication device. 3,422,807, 1-21-69, Cl. 123-196.
Waldeisen, Robert B. Immobilizer dart. 3,457,921, 7-29-69, Cl. 128-215.
Waldelius, Eric, to Telefonaktiebolaget L M Ericsson. Balancing network for loaded line. 3,478,165, 11-11-69, Cl. 178-45.
Walden, Alan Frank: *See—*
Morgan, Frank; and Walden, Alan Frank,3,453,144.
Walden, Eric. Shaft couplings. 3,420,073, 1-7-69, Cl. 64-18.
Walden, Luther E., 50% to Kozak, John J. Trolling device. 3,447,255, 6-3-69, Cl. 43-43.13
Walden, Mayo K.: *See—*
Hunter, Irving Robert; and Walden, Mayo K.,3,425,840.
Walden, Saffron: *See—*
Newbold, Geoffrey Tattersall; Walden, Saffron; and Percival, Albert,3,430,259.
Walder, Roy A.: *See—*
Leiga, Algird G.; Gallo, Charles F.; and Walder, Roy A.,3,474,223.
Waldes, George, to Waldes Kohinoor, Inc. Method of sealing the ends of zipper lengths cut from a continuous fastener chain. 3,485,691, 12-23-69, Cl. 156-88.
Waldes Kohinoor, Inc.: *See—*
Waldes, George, 3,485,691.
Wurzel, Hugo, 3,464,307.
Wurzel, Hugo, 3,483,789.
Wurzel, Hugo, 3,483,888.
Waldhauer, Charles H., Jr., to Honeywell Inc. Control apparatus. 3,422,548, 1-21-69, Cl. 35-25.
Waldhauer, Frederick D., to Bell Telephone Laboratories, Incorporated. Transistorized power amplifier using two series connected transistors driven by an emitter- coupled pair of transistors. 3,454,888, 7-8-69, Cl. 330-15.
Waldhuter, Werner; Rubel, Werner; and Clough, Graham, to Deventer-Werke GmbH. Self-lubricating bearing compositions. 3,461,069, 8-12-69, Cl. 252-12.
Waldie, Arthur Gordon: *See—*
Marlborough, Alan Michael John; and Waldie, Arthur Gordon,3,483,593.
Waldin, Vincent H., to Du Pont de Nemours, E. I., and Company. Method of extracting heat from articles with an ebullient liquid freezant. 3,479,833, 11-25-69, Cl. 62-63.
Waldin, Vincent H., to Du Pont de Nemours, E. I., and Company. Method of extracting heat from articles with an ebullient liquid freezant. 3,482,412, 12-9-69, Cl. 62-63.
Waldin, Vincent H., to Du Pont de Nemours, E. I., and Company. Method of extracting heat from articles with an ebullient liquid freezant. 3,486,345, 12-30-69, Cl. 62-63.
Waldman, Harold L., to Johnson & Johnson. Extensible adhesive tape. 3,483,018, 12-9-69, Cl. 117-68.5
Waldman, Myron R.: *See—*
Leath, Colin W.; Waldman, Myron R.; and Vallante, Thomas E.,3,476,910.
Waldman, Myron R.; and Leath, Colin W., to Walco Electric Company. Wire heater temperature control device. 3,448,242, 6-3-69, Cl. 219-155.
Waldo, Russell W., to Ideal Brass Works Incorporated. Door latch mechanism. 3,423,118, 1-21-69, Cl. 292-229.
Waldo, Russell W., to Ideal Security Hardware Corporation. Door latch operating mechanism. 3,485,066, 12-23-69, Cl. 70-141.
Waldorf, Joseph F.: *See—*
Mading, James E.; and Waldorf, Joseph F.,3,448,226.
Waldorf Paper Products Company: *See—*
Mueller, Oscar G., 3,433,456.
Waldorff, Jorgen F., to Danfoss A/S. Guide means. 3,431,863, 3-11-69, Cl. 103-131.
Waldorff, Jorgen F., to Danfoss A/S. Equalizing system for hydraulic motors. 3,435,616, 4-1-69, Cl. 60-97.
Waldow, Peter: *See—*
Jackson, Don M., Jr.; Frazee, Orville Phillip; and Waldow, Peter,3,454,434.
Waldrich, H. A., G.m.b.H.: *See—*
Klein, Artur, 3,469,353.
Waldron, Alton L., to Hydrasearch Co., Inc. Paraffin valve for oil wells. 3,442,329, 5-6-69, Cl. 166-224.
Waldron, Cloyd D. Dynamic wheel balancer. 3,435,686, 4-1-69, Cl. 73-460.
Waldron, George W.: *See—*
Maskal, John; Thompson, Ivan M.; and Waldron, George W.,3,447,899.
Waldron, Howard Lawrence. Dowel type fastener with shear collar. 3,438,659, 4-15-69, Cl. 287-20.92
Waldron, John Clifford Hildrith: *See—*
Hudswell, Fred; and Waldron, John Clifford Hildrith,3,481,694.
Waldron, Vernon F.: *See—*
Mork, George W.; Waldron, Vernon F.; and Walker, Robert C.,3,464,528.
Waldrop, Charles. Cattle end gate. 3,420,569, 1-7-69, Cl. 296-50.
Waldrop, James J.: *See—*
Fishburne, Francis B.; and Waldrop, James J.,3,450,059.
Waldrop, Robert L.: *See—*
Ayer, Ronald M.; and Waldrop, Robert L.,3,425,544.
Waldrop, Thomas W., to Sperry Rand Corporation. Harvester spout control. 3,451,725, 6-24-69, Cl. 302-34.
Waldrum, John E., to Amchem Products, Inc. Uniform droplet discharge sprayer utilizing an absorbent material therein. 3,445,065, 5-20-69, Cl. 239-159.
Waldschmidt, Henry C.: *See—*
Hansen, Robert B.; and Waldschmidt, Henry C.,3,441,664.
Waldvogel, Guy: *See—*
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf,3,478,065.
Wale, Edward H.: *See—*
Taylor, John J.; and Wale, Edward H.,3,481,003.
Wale, George David, to English Electric Company Limited, The. Electrical reactors. 3,449,702, 6-10-69, Cl. 336-100.
Walecka, Leonard Edward, to Abbott Laboratories. Combined mixing syringe and container. 3,477,431, 11-11-69, Cl. 128-218.
Wales, Charles P., to United States of America, Navy. Method for increasing the discharge capacity of silver electrode storage batteries. 3,431,480, 3-4-69, Cl. 320-21.
Wales, Nathaniel B., Jr.: *See—*
Grady, Charles B., Jr.; and Wales, Nathaniel B., Jr.,3,484,681.
Walesa, Anthony C.: *See—*
Strauss, Eugene O.; Walesa, Anthony C.; and Johnson, Carl E.,3,474,852.
Waleson, Frederik R.; and Van De Hey, Roche J. Ejector type boom. 3,426,914, 2-11-69, Cl. 212-1.
Walewska, Kazimiera: *See—*
Horodko, Romuald; Rzuchowska, Ida; Szajng, Danuta; Walewska, Kazimiera; and Zukowska, Maria,3,484,070.
Walf, Louis: *See—*
Greenwald, Harry, 3,444,712.
Walischmiller, Hans. Radiation therapy operating table with movable half sections. 3,459,939, 8-5-69, Cl. 250-54.
Walischmiller, Hans. Apparatus for remotely controlling moving-in and-out, respectively of an extension piece. 3,481,493, 12-2-69, Cl. 214-1.
Walischmiller, Hans. Remote operating device for work in inacessible spaces. 3,481,494, 12-2-69, Cl. 214-1.
Walitzer, David B.: *See—*
Hitzeroth, Franklin C.; and Walitzer, David B.,3,482,727.
Walk, Hansjorg, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Bobbin orienting arrangement for textile machines. 3,456,770, 7-22-69, Cl. 193-43.
Walker, Alec H. B., to Westinghouse Electric Corporation. Power control apparatus with novel symmetrical switching arrangement. 3,437,909, 4-8-69, Cl. 321-47.
Walker, Alfred O.: *See—*
Johnson, Edward E.; and Walker, Alfred O.,3,441,582.
Walker, Alfred O., to Nalco Chemical Company. Method and apparatus for determining the presence of volatile organic lead compounds in the atmosphere. 3,453,081, 7-1-69, Cl. 23-232.
Walker, Allen C., to Dowty Rotol Limited. Gas turbine powered air-cushion vehicle with propulsive jet means. 3,467,213, 9-16-69, Cl. 180-120.
Walker, Alvin E. Electronic phone control. 3,485,952, 12-23-69, Cl. 179-2.
Walker, Bradford H., to Upjohn Company, The. Protection of Δ^4-3-ketosteroids by the formation of protonated 3-enamines. 3,444,160, 5-13-69, Cl. 260-239.5
Walker, Bradford H., to Upjohn Company, The. Isomerization of the 17-side chain on 20-keto steroids. 3,454,605, 7-8-69, Cl. 260-397.3
Walker, Bradford H.; and Burke, Howard J,, to Upjohn Company, The. Pseudomerization of sapogenins. 3,455,908, 7-15-69, Cl. 260-239.55

Walker, Brian Thomas, to British Aircraft Corporation (Operating) Limited. Apparatus for soldering printed circuit panels. 3,439,854, 4-22-69, Cl. 228-34.

Walker, Brooks: *See—*
Kertell, Frank W., 3,419,912.

Walker, Brooks. Spark retard control. 3,426,737, 2-11-69, Cl. 123-97.

Walker, Brooks. Thermal spark retard. 3,447,518, 6-3-69, Cl. 123-117.

Walker, Brooks. Engine spark control. 3,456,633, 7-22-69, Cl. 123-117.

Walker, Brooks. Spark timing control. 3,472,213, 10-14-69, Cl. 123-117.

Walker, Brooks. Spark control. 3,479,998, 11-25-69, Cl. 123-97.

Walker, Brooks; and Kertell, Frank W., said Kertell assor to said Walker. Carburetor. 3,437,320, 4-8-69, Cl. 261-41.

Walker, Brooks; and Kertell, Frank W. Engine timing device. 3,456,501, 7-22-69, Cl. 73-118.

Walker, Brooks; and Kertell, Frank W. Air cup speed sensor. 3,456,631, 7-22-69, Cl. 123-97.

Walker, Burt; Wollman, Herbert; and Chrouch, Robert C., to Kollsman Instrument Corporation. Digitated photoelectric quadrant structure for radiation tracking devices. 3,463,925, 8-26-69, Cl. 250-203.

Walker, Byron M. Mixing valve. 3,485,454, 12-23-69, Cl. 239-434.

Walker, Charles M. Chain saw attachment. 3,435,859, 4-1-69, Cl. 143-32.

Walker, Clarence L.: *See—*
Deuschle, Fritz; and Walker, Clarence L.,3,473,225.

Walker, Clayton T.: *See—*
Frink, Russell E.; and Walker, Clayton T.,3,447,114.

Walker, Dale W.: *See—*
Cody, Joseph P.; and Walker, Dale W.,3,456,910.

Walker, Darrell W.; and McReynolds, Leo A., to Phillips Petroleum Company. Catalyst for fluidized bed operation. 3,480,660, 11-25-69, Cl. 260-465.3

Walker, David D.: *See—*
Benjamin, Milton L.; and Walker, David D.,3,420,538.
Benjamin, Milton L.; and Walker, David D.,3,421,770.
Benjamin, Milton L.; and Walker, David D.,3,425,705.
Benjamin, Milton L.; and Walker, David D.,3,439,458.
Benjamin, Milton L.; and Walker, David D.,3,443,819.
Benjamin, Milton L.; and Walker, David D.,3,466,681.
Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N.,3,434,376.
Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N.,3,454,283.

Walker, David G., to Esso Research and Engineering Company. Pure binary addition compounds. 3,440,296, 4-22-69, Cl. 260-674.

Walker, David G., to Humble Oil & Refining Company. Separation of aromatic hydrocarbons with solid ternary compounds. 3,467,725, 9-16-69, Cl. 260-674.

Walker, David G.; and Wisdom, Norvell E., Jr., to Esso Research and Engineering Company. Polymerization of aromatic hydrocarbons. 3,437,569, 4-8-69, Cl. 204-59.

Walker, Delbert R.: *See—*
Swauger, Donald A., 3,451,709.

Walker, Dennis W.; and Bexton, Eugen, to International Harvester Company. Agricultural implement. 3,477,518, 11-11-69, Cl. 172-311.

Walker, Donald C., to Standard Oil Company(Indiana). Flame cultivation apparatus and method. 3,456,882, 7-22-69, Cl. 239-412.

Walker, Donald Ferguson: *See—*
Angus, Ernest Thomas; Arthur, Hugh MacDonald; Montgomery, John Young Condie; Walker, Donald Ferguson; and Good, Richard Samuel Jonathan,3,457,480.
Conner, Charles Irvine; Howard, Bernard Victor; Walker, Donald Ferguson; and Wood, Godfrey Allen,3,424,059.
Good, Richard Samuel Jonathan; Kerr, Andrew Guy; Montgomery, John Young Condie; and Walker, Donald Ferguson,3,453,511.

Walker, Donald F.; Rice, Duane N.; Crowson, David H.; and Vachon, Reginald I., to Auburn Research Foundation. Adjustable animal splint. 3,470,873, 10-7-69, Cl. 128-85.

Walker, Donald Lee: *See—*
Walker, Robert Emmett; and Walker, Donald Lee,3,469,530.

Walker, Donald V.; and Hall, Richard F., to Systron-Donner Corporation. Slide switch assembly. 3,479,625, 11-18-69, Cl. 335-206.

Walker, Douglas J.; and Tichy, Oscar A. W., to Whirlpool Corporation. Total sensing automatic washer. 3,477,258, 11-11-69, Cl. 68-12.

Walker, Edward Piper, to English Electric Company Limited, The. Device for determining the temperature of electrical apparatus. 3,483,751, 12-16-69, Cl. 73-362.

Walker, Emil C., to Zenith Radio Corporation. Adjustable switching apparatus. 3,480,726, 11-25-69, Cl. 178-5.1

Walker, Eric: *See—*
Parsey, Michael Richard; Thompson, Edward; and Walker, Eric,3,420,050.

Walker, Francis Ian Victor: *See—*
Wadlow, Roy Sidney; and Walker, Francis Ian Victor,3,451,276.

Walker, Frank H.; and Davis, Carlisle R., Jr., to General Motors Corporation. Torque converter with axially movable bladed element. 3,466,869, 9-16-69, Cl. 60-54.

Walker, Frank S. Leakproof rubber seal assembly. 3,482,366, 12-9-69, Cl. 52-214.

Walker, Frederick J., to Ferguson, Harry, Auto Research, Inc., mesne. Vehicle braking systems. 3,449,019, 6-10-69, Cl. 303-21.

Walker, Garland H.; and Ballard, Carlos E., to Seispower Corporation. Non-aqueous cap-sensitive explosive containing gelled nitromethane and inorganic nitrate oxidizer salt. 3,475,236, 10-28-69, Cl. 149-20.

Walker, Garland Ray: *See—*
Joarder, Mohammad Golam Kibria; and Walker, Garland Ray,3,474,613.

Walker, Gene Cowden, to Docutel, Inc., mesne. Counterfeit document security system. 3,426,879, 2-11-69, Cl. 194-4.

Walker, Geoffrey Roy; and Roessel, Hilmar, to Quality Weaving Company. Apparatus for treating narrow fabrics. 3,429,054, 2-25-69, Cl. 34-60.

Walker, George B.; and Cambre, Cushman M., to Procter & Gamble Company, The. Polyquaternary ammonium salts of polymerized epichlorohydrin. 3,428,680, 2-18-69, Cl. 260-567.6

Walker, George E., to Monsanto Company. Diene rubber-nitrile copolymer-unsaturated triglyceride blends having increased toughness. 3,438,971, 4-15-69, Cl. 260-23.7

Walker, George Sanderson; and McLaren, Ronald Robert, to Ferranti, Limited. Apparatus for counting electrical pulses. 3,436,753, 4-1-69, Cl. 340-347.

Walker, George W.: *See—*
Newman, Harry B.; and Walker, George W.,3,483,852.

Walker, Gordon Northrop, to Ciba Corporation. Certain pyrazole-3-carboxylic acid hydrazide derivatives. 3,449,350, 6-10-69, Cl. 260-295.5

Walker, Gordon Northrop, to Ciba Corporation. 6,11-Diaminomorphanthridines. 3,471,473, 10-7-69, Cl. 260-239.

Walker, Gordon Richard: *See—*
Murray, William; and Walker, Gordon Richard,3,441,284.

Walker, Hamilton. Sliding pivoted piston rotary engine. 3,442,257, 5-6-69, Cl. 123-17.

Walker, Hamilton. Hydrofoil craft. 3,477,400, 11-11-69, Cl. 114-66.5

Walker, Harold R., to Teleglobe Pay-TV System, Inc. Subscription television communication system. 3,439,113, 4-15-69, Cl. 178-5.1

Walker, Harold R., to Teleglobe Pay-TV System, Inc. Subscription television system. 3,440,338, 4-22-69, Cl. 178-5.1

Walker, Harold R., to Charger Electronic Systems Inc. Frequency interlacing of multi-video programs. 3,484,544, 12-16-69, Cl. 178-5.1

Walker, Harold: *See—*
Shoenfeld, Harold; and Walker, Harold,3,456,372.

Walker, Harris H., to Colgate-Palmolive Company. Diffuse light baffle for inspection of container tops. 3,483,390, 12-9-69, Cl. 250-222.

Walker, Henry P.: *See—*
Flaherty, Robert J., Jr.; Walker, Henry P.; and Kimball, John A., Jr.,3,436,569.

Walker Iron Works, Inc.: *See—*
Walker, James Henry, 3,463,456.

Walker, James B., Jr. Article lifting device. 3,453,016, 7-1-69, Cl. 294-16.

Walker, James B., Jr., to Babcock & Wilcox Company, The. Fuel firing. 3,468,266, 9-23-69, Cl. 110-106.

Walker, James E. Oil and water separator. 3,481,469, 12-2-69, Cl. 210-96.

Walker, James Henry, to Walker Iron Works, Inc. Railing construction. 3,463,456, 8-26-69, Cl. 256-22.

Walker, James L.: *See—*
Kiesler, Allan; Moffatt, William G.; and Walker, James L.,3,465,423.

Walker, James W.: *See—*
Martin, Alfred W.; Walker, James W.; McNair, William T., Jr.; and Hood, Coy H.,3,432,560.

Walker, James; and Westwood, Goeffrey W., to Foseco Fordath A.G. Process for the production of foundry cores and molds. 3,428,110, 2-18-69, Cl. 164-43.

Walker, John A.; Henry, Daniel; and Lienemann, Darlo E., to International Harvester Company. Seed plate test device. 3,483,755, 12-16-69, Cl. 73-432.

Walker, John A.: *See—*
Bauman, Jack L.; and Walker, John A.,3,428,134.

Walker, John F., to Hercules Incorporated. Catalyst system for preparation of alkylene terephthalate polymers. 3,424,727, 1-28-69, Cl. 260-75.

Walker, John L.: *See—*
Wiseman, William A.; and Walker, John L.,3,447,515.

Walker, John N.: *See—*
Andrews, James A.; Bahm, Glenn A.; Dodson, Riley B.; and Walker, John N.,3,462,837.

Walker, John W. Method and apparatus for collecting a cleaner urine specimen. 3,459,174, 8-5-69, Cl. 128-2.

Walker, John. Hydraulic loudspeakers. 3,456,755, 7-22-69, Cl. 181-31.
Walker, M. Lucius, Jr.: *See*—
Trask, Roland Pierce, II; Katz, Silas; and Walker, M. Lucius, Jr.,3,478,764.
Walker Manufacturing Company: *See*—
Arnes, Lyle L., 3,420,481.
Arnes, Lyle L., 3,441,248.
Arnes, Lyle L., 3,448,658.
Balluff, Robert N., 3,485,319.
Case, David A., 3,429,397.
Fischer, Richard L., 3,434,565.
Gregg, Paul V., 3,470,724.
Gregg, Paul V., 3,472,056.
Gregg, Paul V., 3,483,725.
Hubbell, Franklin R., III, 3,441,105.
Inda, Floyd, 3,426,562.
Kerns, Karl K., 3,457,723.
Kidera, Edward H.; Kurth, Warren; and Whittingham, David J., 3,431,759.
Lentz, Ervin C., 3,479,145.
Niebergall, Louis F., 3,478,601.
Offer, Robert J.; and McLaren, James C., 3,485,380.
Persico, George J.; and Steele, Luther R., 3,472,057.
Peterson, Robert W., 3,433,314.
Prescott, David B., 3,463,272.
Rhodes, Keith H., 3,456,632.
Shaff, Gerald H.; Smith, Frank R.; Haren, Ralph J.; and Chiappe, Orlando J., 3,479,725.
Stark, Norman H., 3,464,540.
Worden, Donald P.; and Abbott, Edward F., 3,441,704.
Walker, Melvin F., to Designatronics, Inc. Miniature differential. 3,427,900, 2-18-69, Cl. 74-710.
Walker, Michael K.: *See*—
Brownhill, Frank D.; and Walker, Michael K.,3,478,590.
Brownhill, Frank D.; Walker, Michael K.; and Ward, Peter A.,3,478,591.
Walker, Norman C., to Dana Laboratories, Inc. Amplifier system with power supply control for balanced power. 3,478,275, 11-11-69, Cl. 330-22.
Walker, Patrick J., to Kinkead Industries Incorporated. Magnetic latch mounting. 3,476,428, 11-4-69, Cl. 292-251.5
Walker, Perrin: *See*—
Mann, John E.; and Walker, Perrin,3,485,684.
Walker, Peter Thomas; and Newson, Ivan Henry, to Weir Westgarth Limited. Desalination processes and apparatus. 3,483,093, 12-9-69, Cl. 203-11.
Walker, Richard A.: *See*—
Gowen, Edward F., Jr.; Ollis, Raymond, Jr.; and Walker, Richard A.,3,433,117.
Walker, Richard D.: *See*—
Meyer, Larry E.; and Walker, Richard D.,3,454,499.
Walker, Richard K., to McGraw-Edison Company. Alternating relay. 3,482,192, 12-2-69, Cl. 335-190.
Walker, Richard M., to Microwave Associates, Inc. Controlling ghost-mode resonant frequencies in sealed waveguide windows. 3,436,694, 4-1-69, Cl. 333-98.
Walker, Richard M., to Microwave Associates, Inc. Prefabricated waveguide corner. 3,452,306, 6-24-69, Cl. 333-98.
Walker, Richard W. C., to Domtar Limited. End loading carton. 3,469,736, 9-30-69, Cl. 220-115.
Walker, Robert C.; and Clarke, Gordon J., to Lacol Industries Limited. Spacer damper. 3,443,019, 5-6-69, Cl. 174-42.
Walker, Robert C.: *See*—
Crosby, Noble W.; Clarke, Gordon J.; and Walker, Robert C.,3,454,705.
Crosby, Noble W.; Walker, Robert C.; and Clarke, Gordon J.,3,474,184.
Mork, George W.; Waldron, Vernon F.; and Walker, Robert C.,3,464,528.
Walker, Robert E. Dynamoelectric machine with longitudinally split housing. 3,443,132, 5-6-69, Cl. 310-42.
Walker, Robert Emmett; and Walker, Donald Lee, to Tamaker Corporation. Rubbish baling apparatus. 3,469,530, 9-30-69, Cl. 100-215.
Walker, Robert G.: *See*—
Taylor, Robert B.; and Walker, Robert G.,3,436,232.
Walker, Robert H.; and Walker, Robert J., to United States of America, Atomic Energy Commission. Automatic separation column product analyzer. 3,432,662, 3-11-69, Cl. 250-83.1
Walker, Robert J.: *See*—
Walker, Robert H.; and Walker, Robert J.,3,432,662.
Walker, Robert R.: *See*—
Spurr, Eugene V.; Walker, Robert R.; and Steiniger, George W.,3,469,425.
Walker, Robert W.: *See*—
Chaille, James L.; and Walker, Robert W.,3,450,583.
Walker, Stanley P.: *See*—
Dundas, Ernest W.; and Walker, Stanley P.,3,436,811.
Walker, Stanton E.: *See*—
Schroeder, Herbert M.; and Walker, Stanton E.,3,438,795.
Walker, Theodore R.; and Miller, Edward G., to Eastman Kodak Company. Selective filter medium. 3,429,318, 2-25-69, Cl. 131-267.
Walker, Vernon L. Sickle bar mower support. 3,482,381, 12-9-69, Cl. 56-322.
Walker, Watson F.; and de Haas, Thijs, to General Dynamics Corporation. Communications system wherein information is represented by the phase difference between adjacent tones. 3,430,143, 2-25-69, Cl. 325-30.
Walker, Watson F.; de Haas, Thijs; and Gray, Martin B., to General Dynamics Corporation. Receiver for plural frequency phase differential transmission system. 3,456,194, 7-15-69, Cl. 325-320.
Walker, William C.: *See*—
Cavagna, Giancarlo; and Walker, William C.,3,479,215.
Walker, William E., Jr., to Wheatley, Charles, Company. Dual orifice plug fitting. 3,450,164, 6-17-69, Cl. 138-44.
Walker, William Foster: *See*—
Hankison, Paul M.; and Walker, William Foster,3,464,186.
Walker, William J.: *See*—
Stricker, Alfred A.; and Walker, William J.,3,444,617.
Walkinshaw, Thomas G., to Cramer Industries, Inc. Chair with adjustable back and arm rests. 3,434,756, 3-25-69, Cl. 297-300.
Walkinshaw, Thomas G., to Cramer Industries, Inc. Locking mechanism for chair pedestals. 3,443,784, 5-13-69, Cl. 248-408.
Walkow, Arnold M., to Texas Instruments, Incorporated. Method of welding using concentric electrodes. 3,435,181, 3-25-69, Cl. 219-91.
Walkup, William B., to General Electric Company. Anti double feed device. 3,431,817, 3-11-69, Cl. 89-12.
Wall, Alexander C.: *See*—
Mallory, Henry Rogers; and Wall, Alexander C.,3,470,504.
Wall, Byron T. Apparatus for and method of removing condensible compounds from tobacco smoke. 3,441,028, 4-29-69, Cl. 131-10.3
Wall, Byron T. Device for removing tars from tobacco smoke and thermostatically controlling the blending of air therewith. 3,441,029, 4-29-69, Cl. 131-198.
Wall, Daniel L., Sr. Portable ball driving practice range. 3,430,493, 3-4-69, Cl. 73-379.
Wall, Earle R., Jr., to General Motors Corporation. Matrix seal. 3,448,793, 6-10-69, Cl. 165-9.
Wall, Henry H.; Breidenbach, Eric P.; and Miller, Leo A., to Ethyl Corporation. Production and purification of vinyl chloride. 3,468,967, 9-23-69, Cl. 260-656.
Wall, James L., 1/2 interest to Thompson, H. V. and T. G., Lumber Co. Chipping log siding machine. 3,454,060, 7-8-69, Cl. 144-118.
Wall, Leo A.; and Antonucci, Joseph M., to United States of America, Navy. High temperature substitution reactions of hexafluorobenzene. 3,429,935, 2-25-69, Cl. 260-650.
Wall, Marvin R. Method of and apparatus for increasing the efficiency of combustion engine. 3,446,013, 5-27-69, Cl. 60-39.06
Wall, Peter Kenneth, to International Standard Electric Corporation. Multi-crystal filters employing trifilar or double bifilar wound winding transformers. 3,440,575, 4-22-69, Cl. 333-72.
Wall, Richard D., to Bell Telephone Laboratories, Incorporated. Asynchronous parity checking circuit. 3,487,363, 12-30-69, Cl. 340-146.1
Wall, Robert A.; and Fainer, Percy, to Clairol Incorporated. Treating damaged living human hair with water soluble polymerizable vinyl monomers. 3,472,243, 10-14-69, Cl. 132-7.
Wall, Robert A.: *See*—
Dasher, George F.; and Wall, Robert A.,3,472,604.
Wall, Wilfred Frank; Fatherley, Michael; and Boothroyd, Brian, to Glaxo Laboratories Limited. 7(Aminophenylacetamido) cephalosporanic acids. 3,422,103, 1-14-69, Cl. 260-243.
Wall, William A., Jr., to United States of America, National Aeronautics and Space Administration. Welding skate with computerized control. 3,469,068, 9-23-69, Cl. 219-125.
Wall, William A., Jr.; and Yost, Vaughn H., to United States of America, National Aeronautics and Space Administration. Apparatus for welding torch angle and seam tracking control. 3,443,732, 5-13-69, Cl. 228-7.
Wall, William C.: *See*—
Durkee, Jackson L.; Wall, William C.; and Lester, Raymond H.,3,457,717.
Wall, William H., Jr. Dental arch bar for treating fractures. 3,474,779, 10-28-69, Cl. 128-89.
Wallace & Tiernan Inc.: *See*—
Blake, Stephen, 3,441,605.
Booth, George M., 3,454,854.
Campbell, George A., 3,457,453.
Conkling, William C., 3,452,170.
Conkling, William Collins; and Mosher, Charles William, 3,425,279.
De Mair, William M.; and Strauss, Theodore R., 3,461,742.
DeMair, William M., 3,465,596.
Farese, Vito C., 3,486,381.
Fletcher, Henry, 3,441,571.
Fletcher, Henry, 3,448,119.

Harrison, James B.; Mageli, Orville L.; and Lowell, Arthur I., 3,420,807.
Kier, Lemont B.; and Keating, John W., 3,427,317.
Mageli, Orville Leonard; and Bafford, Richard Anthony, 3,420,891.
Mageli, Orville Leonard; and Bolton, Douglas John, 3,446,831.
Shetty, Bola Vithal, 3,452,019.
Shetty, Bola Vithal, 3,452,020.
Shetty, Bola Vithal, 3,458,513.
Shetty, Bola Vithal; and Thomas Telfer L., 3,458,575.
Sudrabin, Leon P., 3,425,921.
Tejeda, Alvaro R.; and Sarli, Vincent G., 3,453,354.

Wallace, Arthur W., to Gardner-Denver Company. Percussion tool control means. 3,464,500, 9-2-69, Cl. 173-15.

Wallace, Augustine J., Jr.: *See—*
Ferchland, Harold W.; and Wallace, Augustine J., Jr.,3,435,528.

Wallace, Bert H., to General Cigar Co., Inc. Helical movement of cylindrical objects. 3,467,108, 9-16-69, Cl. 131-20.

Wallace, Bruce W.: *See—*
McIntire, Kenneth D., Jr.; and Wallace, Bruce W.,3,426,816.
McIntire, Kenneth D., Jr.; and Wallace, Bruce W.,3,428,002.

Wallace, Charles Coleman. Key operated safety lock device for firearms. 3,462,869, 8-26-69, Cl. 42-70.

Wallace, Clarence L., Jr., to Illinois Tool Works Inc. Vibration integrating alarm. 3,478,343, 11-11-69, Cl. 340-261.

Wallace, David J.: *See—*
Fisher, John G.; Wallace, David J.; and Straley, James M.,3,424,756.

Wallace, David J.; Straley, James M.; and Weaver, Max A., to Eastman Kodak Company. Thiazolyl monoazo dyes for hydrophobic fibers. 3,424,741, 1-28-69, Cl. 260-158.

Wallace, David J.; and Weaver, Max A., to Eastman Kodak Company. Thiadiazolyl monoazo dyestuffs. 3,428,621, 2-18-69, Cl. 260-158.

Wallace, David J.; and Weaver, Max A., to Eastman Kodak Company. Azobenzene-azo-aniline dyestuffs containing a pyrrolidinono, a piperidono or a phthalimidono group. 3,445,452, 5-20-69, Cl. 260-152.

Wallace, David J.; Weaver, Max A.; and Straley, James M., to Eastman Kodak Company. Disazo dyes for hydrophobic fibers. 3,438,961, 4-15-69, Cl. 260-152.
Straley, James M.; and Wallace, David J.,3,438,982.
Waver, Max A.; Wallace, David J.; and Straley, James M.,3,453,270.
Weaver, Max A.; and Wallace, David J.,3,423,394.
Weaver, Max A.; and Wallace, David J.,3,424,740.
Weaver, Max A.; and Wallace, David J.,3,429,871.
Weaver, Max A.; and Wallace, David J.,3,438,965.
Weaver, Max A.; and Wallace, David J.,3,453,280.
Weaver, Max A.; and Wallace, David J.,3,464,971.

Wallace, Dean R., to Air Reduction Company, Incorporated. Jar closure assembly. 3,438,530, 4-15-69, Cl. 215-43.

Wallace, Dean R., to Air Reduction Company, Incorporated. Squeeze-bag resuscitator. 3,473,529, 10-21-69, Cl. 128-145.7

Wallace, Earl C., to General Engineering & Manufacturing Corporation. Cartop carrying case. 3,458,094, 7-29-69, Cl. 224-42.01

Wallace, Edwin G.: *See—*
Kezerian, Charles; Wallace, Edwin G.; and Kopacki, Adam F.,3,433,762.

Wallace, Elmer E., to Controls Company of America. Gas pressure regulator having adjustable laterally located clock-type biasing spring. 3,463,183, 8-26-69, Cl. 137-505.41

Wallace, Elmer E.: *See—*
Vicenzi, Reno L.; and Wallace, Elmer E.,3,451,421.

Wallace, Eugene F.: *See—*
Kotter, James I.; Salaun, Harold L., Jr.; Wallace, Eugene F.; and Lanigan, James P., Jr.,3,458,904.

Wallace Expanding Machines, Inc.: *See—*
Roper, Ralph E., 3,440,711.
Roper, Ralph E., 3,443,413.

Wallace, Gordon L., to Aquapure, Inc., mesne. Sewage treatment apparatus. 3,471,020, 10-7-69, Cl. 210-152.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Electronic transmitting device. 3,441,685, 4-29-69, Cl. 179-90.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Pulse distortion measuring equipment. 3,456,079, 7-15-69, Cl. 178-69.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Distortion system for introducing distortion into a pulse train. 3,482,117, 12-2-69, Cl. 307-265.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Programmable printed circuit board. 3,486,160, 12-23-69, Cl. 339-17.

Wallace, Jacob Lightsey, Jr., to Susquehanna Corporation, The. Electronic transmitting device. 3,422,229, 1-14-69, Cl. 179-90.

Wallace, Jacob Lightsey, Jr., to Susquehanna Corporation, The. Distributor system for monitoring position and status of a number of points. 3,428,949, 2-18-69, Cl. 340-147.

Wallace, James B.; Hamilton, William W., Jr.; and Pigan, Edward A., to Westinghouse Electric Corporation. Electrical apparatus and self-lubricating contact. 3,482,202, 12-2-69, Cl. 339-22.

Wallace, James W. Device for cleaning pipes and tubes. 3,451,091, 6-24-69, Cl. 15-104.06

Wallace, John D.: *See—*
Pure, Samuel; and Wallace, John D.,3,469,229.

Wallace, John Frederick; Butler, Roger David; and Adkin, Lancelot Alan, to Pressed Steel Fisher Limited. Machine for processing metallic sheet and strip material. 3,461,702, 8-19-69, Cl. 72-161.

Wallace, John H., to Emerson Electric Co. Speed control system incorporating regenerative drive. 3,477,000, 11-4-69, Cl. 318-197.

Wallace, John Watson; and Snow, Randolph Bernard, to Price Wilson Limited-Price Wilson Limitee. Ammunition holder. 3,424,298, 1-28-69, Cl. 206-3.

Wallace, Joseph D.: *See—*
Roy, Michael G.; and Wallace, Joseph D.,3,472,219.

Wallace, Kurt F., to Ampex Corporation. Method for determining filament condition by continuously evaluating current flow therethrough. 3,466,534, 9-9-69, Cl. 324-20.

Wallace, Lawrence G.: *See—*
Lott, Chancy M., 3,440,781.

Wallace, Leroy J. Cash register with means for producing electronic data processing input record. 3,441,206, 4-29-69, Cl. 235-60.29

Wallace, Milner W., to International Telephone and Telegraph Corporation. Tunnel cathode in matrix form with integral storage feature. 3,447,043, 5-27-69, Cl. 317-234.

Wallace, Richard B., to Oakland Corporation, The. Threaded fastener with friction lock insert. 3,478,800, 11-18-69, Cl. 151-7.

Wallace, Richard M., to United States of America, Atomic Energy Commission. Concentration of ions using ion selective membranes. 3,454,490, 7-8-69, Cl. 210-22.

Wallace, Richard W.: *See—*
Reardon, Daniel E.; Wallace, Richard W.; and Beals, Raymond S.,3,438,615.

Wallace, Richard W., to Dresser Industries, Inc. Analog computer system for solving heat flow problems. 3,436,534, 4-1-69, Cl. 235-185.

Wallace, Robert S. Heat shielding ear protector. 3,452,365, 7-1-69, Cl. 2-209.

Wallace, Robert T., to Owens-Illinois, Inc. Melt elastic extruder and method. 3,422,177, 1-14-69, Cl. 264-176.

Wallace, Thomas J., to Esso Research and Engineering Company. Stabilization of petroleum distillates containing olefins. 3,485,604, 12-23-69, Cl. 44-64.

Wallace, Thomas J.: *See—*
Nixon, James; Wallace, Thomas J.; and Beerbower, Alan,3,458,294.
Taylor, William F.; and Wallace, Thomas J.,3,438,248.
Vogelfanger, Elliot A.; and Wallace, Thomas J.,3,479,163.

Wallace, Wendell J., to Packaging Corporation of America. Package for a fragile product. 3,480,137, 11-25-69, Cl. 206-65.

Wallace, William K.: *See—*
Schaedler, Raymond J.; and Wallace, William K.,3,428,137.

Wallace-Murray Corporation: *See—*
Ament, Myron J.; and Holycross, Frank R., Jr., 3,426,365.
Briggs, William R.; and Haimila, Armas O., 3,463,206.
Holycross, Frank R., Jr., 3,425,660.
Kolesh, Victor Anthony, 3,420,007.
McGavern, Sanford A.; and Ward, Wiliam K., 3,440,899.
Stone, Richard L., 3,421,429.
Stone, Richard L.; and Kinkead, Alan, 3,425,178.
Wisting, Walter L., 3,448,562.

Wallaceburg Brass, Limited: *See—*
Church, James W., 3,437,112.

Wallach, George. Safety seat for vehicles. 3,427,070, 2-11-69, Cl. 297-216.

Wallach, Mark K.; and Yermakov, Alexis M., to Stow & Davis Furniture Company. Furniture construction. 3,479,102, 11-18-69, Cl. 312-195.

Wallan, Kenneth R. Articulated vehicles with individual axle reversing drive mechanisms. 3,481,418, 12-2-69, Cl. 180-23.

Wallden, Knut Anders Osborne, deceased0 (by Jonsson, Carl Lennart; legal representative). Method of and apparatus for sterilizing articles. 3,450,487, 6-17-69, Cl. 21-56.

Walldorf, Diann J., to Thomas & Betts Corporation. Identification tag. 3,486,257, 12-30-69, Cl. 40-2.

Wallen, Albert E., to United States of America, Navy, mesne. Underwater acoustic generator with variable resonant frequency. 3,458,855, 7-29-69, Cl. 340-5.

Wallenberger, Frederick T., to Du Pont de Nemours, E. I., and Company. Linear polycarbonamides from bis(4- carboxycyclohexyl)methane. 3,472,818, 10-14-69, Cl. 260-78.

Wallenfels, Karl Hans, to Fritz Hellige & Co., G.m.b.H. Microwave oven with rotatable shelf. 3,428,772, 2-18-69, Cl. 219-10.55

Wallenfels, Miklos, to Du Pont de Nemours, E. I., and Company. Process for producing wrinkle-free coated film. 3,458,334, 7-29-69, Cl. 117-7.

Wallenmeyer, Delmar E. Game apparatus with removable peg playing piece advancing means. 3,433,484, 3-18-69, Cl. 273-134.

Wallenstein, Mihaly, to Ganz Villamossagi Muvek. Device for supporting and direct cooling of turboalternator rotor end windings. 3,465,183, 9-2-69, Cl. 310-54.

Wallentowitz, Klaus D., to General Time Corporation. Electronic timer circuits providing switching at multiple intervals. 3,457,464, 7-22-69, Cl. 317-142.

Wallentowitz, Klaus D., to General Time Corporation. Electronic timer circuit having feedback provision. 3,484,656, 12-16-69, Cl. 317-142.
Wallentowitz, Klaus D.: *See*—
Lundin, Robert S.; and Wallentowitz, Klaus D.,3,453,500.
Waller, Frederick S.; and Laama, Vello, to Sunbeam Corporation. Electric kettle. 3,487,200, 12-30-69, Cl. 219-437.
Waller, James R., Jr.: *See*—
Messersmith, Lewis D.; Smith, George Revere; and Waller, James R., Jr.,3,444,520.
Waller, Joseph B. Bottle carrying case. 3,421,649, 1-14-69, Cl. 220-4.
Waller, Lyle G., to National Union Electric Corporation. Delayed action battery. 3,423,245, 1-21-69, Cl. 136-90.
Waller, Peter John; and Waterfield, Charles Jeffrey, to R. & R. Research Limited. Secrecy television apparatus with scrambled synchronizing signals. 3,460,161, 8-5-69, Cl. 178-5.1
Waller, Richard C.; and Keck, Max H., to Goodyear Tire & Rubber Company, The. Block copolyester containing crystallizable polymeric units and rubbery polyester units. 3,446,778, 5-27-69, Cl. 260-75.
Waller, Richard E. Wire insert. 3,459,248, 8-5-69, Cl. 151-14.
Waller, Roy A., to Kins Developments Limited. Berthing of ships. 3,474,631, 10-28-69, Cl. 61-48.
Waller, Siegfried, to Siemens Aktiengesellschaft. Digitally programmed positioning motor control system for movable machine structure. 3,473,098, 10-14-69, Cl. 318-18.
Wallerich, Horst: *See*—
Schares, Hermann Josef; and Wallerich, Horst,3,485,532.
Wallerscheid, Jean, Firma K.G.: *See*—
Schroter, Kurt; Nienhaus, Clemans; Vollmer, Jurgen; and Burghardt, Alfons, 3,465,327.
Walles, Wilhelm E., to Dow Chemical Company, The. Incremental magnet. 3,435,296, 3-25-69, Cl. 317-123.
Walles, Wilhelm E., to Dow Chemical Company, The. Polymeric complexes of saccharin and cyclohexanesulfamic acid. 3,449,339, 6-10-69, Cl. 260-244.
Walles, Wilhelm E., to Dow Chemical Company, The. Poly-N-heterocyclics and method. 3,450,674, 6-17-69, Cl. 260-77.5
Walles, Wilhelm E.; and Leff, Stanley S., to Dow Chemical Company, The. Catalytic oxidation of sulfhydryl compound. 3,440,012, 4-22-69, Cl. 23-225.
Walles, Wilhelm E.; and Nagy, Donald J., to Dow Chemical Company, The. Process for generating an explosion. 3,465,674, 9-9-69, Cl. 102-23.
Walles, Wilhelm E.: *See*—
Prueter, Elton D.; and Walles, Wilhelm E.,3,472,665.
Wallin, Gus W.; and Bessent, John W., to Scovill Manufacturing Company. Convertible power mixer and other appliances. 3,426,261, 2-4-69, Cl. 318-290.
Wallin, Sven, to Aktiebolaget Svenska Flaktfabriken. Method of sealing guide joints. 3,439,406, 4-22-69, Cl. 29-450.
Wallinder, John Arne, to Catylators Limited. Control of current in electrolytic apparatus. 3,462,356, 8-19-69, Cl. 204-228.
Walling, Francis L., to Singer Company, The. Controlled loose stitching mechanism for chainstitch sewing machines. 3,465,701, 9-9-69, Cl. 112-245.
Walling, Walter W.: *See*—
Toelke, Lester W.; and Walling, Walter W.,3,453,004.
Wallingford, Vernon H., to Mallinckrodt Chemical Works. 3-(N-substituted-acylamino)-2,4,6-triiodophenyl fatty acid compounds. 3,446,837, 5-27-69, Cl. 260-471.
Wallis, Bernard J. Drafting bench. 3,467,459, 9-16-69, Cl. 312-231.
Wallis, Charles Edward, to Continental Capital-Control Centre Establishment. Insulating cement compositions. 3,486,917, 12-30-69, Cl. 106-90.
Wallis, George: *See*—
Pomerantz, Daniel I.; and Wallis, George,3,470,348.
Wallis, Kenneth Arthur: *See*—
Crowe, Jack; and Wallis, Kenneth Arthur,3,438,238.
Wallis, Neil R. Coating apparatus. 3,460,764, 8-12-69, Cl. 239-422.
Wallis, Neil R. Method for applying powder coatings to articles. 3,486,921, 12-30-69, Cl. 117-24.
Wallis, Neil Rudolph, to Aerocoat S.A. Apparatus for applying powder coatings to articles. 3,463,120, 8-26-69, Cl. 118-626.
Wallis, Rolland B., to General Motors Corporation. Variable power and variable direction engine and simple planetary phase changing device. 3,482,457, 12-9-69, Cl. 74-44.
Wallman, Walter A.; and Taft, David D., to Ashland Oil & Refining Company. Cross-linking of water-soluble or water-dispersible polyesters with dichromates. 3,485,781, 12-23-69, Cl. 260-22.
Wallman, Walter A.: *See*—
Graver, Richard B.; and Wallman, Walter A.,3,437,481.
Wallmannsberger, Georg. Monocable grip. 3,420,189, 1-7-69, Cl. 104-202.
Wallo, William H. Electrical connecting spring device. 3,467,940, 9-16-69, Cl. 339-14.
Walls, Earl L., to Wyle Laboratories. Cabinet assembly. 3,425,762, 2-4-69, Cl. 312-111.
Walls, Edgar H., to Western Electric Company, Incorporated. Methods of and apparatus for eliminating icicle- like formations on wave soldered connections on circuit substrates. 3,465,415, 9-9-69, Cl. 29-471.1
Walls, Gordon W., to Commonwealth Scientific and Industrial Research Organization. Twisted thread assemblies. 3,443,370, 5-13-69, Cl. 57-34.
Walls, John, to Stanbury, Allan D. Repair clip for splicing metal tape. 3,472,089, 10-14-69, Cl. 74-231.
Wallstein, Dieter: *See*—
Knapp, Peter; and Wallstein, Dieter,3,462,672.
Walmsley, Judith A., to Owens-Illinois, Inc. Art of producing siloxane condensation products. 3,433,764, 3-18-69, Cl. 260-46.5
Walmsley, Judith A.: *See*—
Jasinski, Amy L.; and Walmsley, Judith A.,3,428,706.
Walmsleys (Wigan) Ltd.: *See*—
Marsh, Hugh R. W.; and Taylor, Colin, 3,450,364.
Walon, Raoul G. P., to Corn Products Company. Sweet syrups. 3,475,216, 10-28-69, Cl. 127-46.
Walpole, Arthur Leonard: *See*—
Greenshields, James Nairn; Langley, Bernard William; Vickers, Edward Jervis; Walpole, Arthur Leonard; and Williams, Michael Henry Currer,3,424,846.
Walrave, Louis. Windbreak tent. 3,448,748, 6-10-69, Cl. 135-1.
Walrave, Wilhelmus K. A., to Reactor Centrum Nederland. Ventilation appliances for a processing chamber. 3,482,377, 12-9-69, Cl. 55-255.
Walser, Armin: *See*—
Surmatis, Joseph Donald; and Walser, Armin,3,466,331.
Walsh, Alan; and Sullivan, John V., to Commonwealth Scientific and Industrial Research Organization. Method and apparatus for production and isolation of photoelectric signals generated by atomic resonance lines. 3,433,963, 3-18-69, Cl. 250-217.
Walsh, Arthur, to Xerox Corporation. Preparation of photoelectrophoretic imaging suspension. 3,473,940, 10-21-69, Cl. 106-309.
Walsh, Bruce R., to Gulf Research & Development Company. Afterburner. 3,423,928, 1-28-69, Cl. 60-30.
Walsh, Charles Bernard; and Sturman, Geoffrey Wilfred, to International Computers and Tabulators Limited. Web positioning apparatus. 3,448,906, 6-10-69, Cl. 226-75.
Walsh, Edward N.; and Uhing, Eugene H., to Stauffer Chemical Company. Flame resistant phosphoramidate-polyester reaction products. 3,440,222, 4-22-69, Cl. 260-75.
Walsh, George M., to Raytheon Company. Acoustic mapping apparatus. 3,484,737, 12-16-69, Cl. 340-3.
Walsh, Helen A. Storage rack for vessel containing unstable material. 3,480,152, 11-25-69, Cl. 211-74.
Walsh, James A.; and White, Harlan V., to General Electric Company. Centrifugal pump with spherical-shaped casing. 3,437,047, 4-8-69, Cl. 103-111.
Walsh, James D. Pipe coupling having manual quick joining ring means. 3,459,446, 8-5-69, Cl. 285-362.
Walsh, James L.: *See*—
Murphy, Daniel W.; Turnbull, John R., Jr.; and Walsh, James L.,3,483,398.
Walsh, James V. Visor. 3,451,714, 6-24-69, Cl. 296-97.
Walsh, Jean L. Insulated container for pizza pies. 3,428,103, 2-18-69, Cl. 150-2.2
Walsh, John H.; Hudson, Hugh P.; Botham, John C.; and Landon, Joseph E. Reduction of iron ore. 3,462,263, 8-19-69, Cl. 75-40.
Walsh, John M., III, to Bull & Roberts Inc. Compact radiation detector with superimposed filter, phosphor, glass and photosensitive layers. 3,427,489, 2-11-69, Cl. 313-101.
Walsh, John W.: *See*—
Weichman, Roger L.; Walsh, John W.; and Fierce, William L.,3,480,568.
Walsh, Leonard; and Graves, William F., to United States of America, Navy. Fail safe device for load hoisting equipment. 3,446,484, 5-27-69, Cl. 254-135.
Walsh, Lincoln. Coherent-sound loudspeaker. 3,424,873, 1-28-69, Cl. 179-115.5
Walsh, Namon A. Load handling attachment for hydraulic lifts. 3,450,288, 6-17-69, Cl. 214-731.
Walsh, Robert J.: *See*—
Gutsche, Henry W.; Harris, Darrel M.; and Walsh, Robert J.,3,469,686.
Walsh, Robert J., to Monsanto Company. Processing of semiconductor wafers. 3,475,867, 11-4-69, Cl. 51-281.
Walsh, Robert R., to All American Engineering Company. Multichannel digitalized process parameter monitoring and scanning means with multiple limit preset. 3,426,183, 2-4-69, Cl. 235-92.
Walsh, Terence: *See*—
Douglas, Edward; and Walsh, Terence,3,444,996.
Walsh, Terence, to National Research Development Corporation. Gravity separation of particulate material. 3,439,805, 4-22-69, Cl. 209-172.5
Walsh, Thomas J., to Leeds & Northrup Company. Controllers of the duration-adjusting type with electrical snap-action. 3,445,779, 5-20-69, Cl. 330-51.

Walsh, Thomas J.: *See—*
Lord, Albert M.; Walsh, Thomas J.; and Fatica, Nicholas,3,459,596.
Walsh, Vincent T.: *See—*
Burns, Fredrick B.; and Walsh, Vincent T.,3,474,482.
Walsh, William J., to Burroughs Corporation. Dual-feedback stabilized differential follower amplifier. 3,430,152, 2-25-69, Cl. 330-2.
Walsh, William L.: *See—*
Hay, Russell G.; and Walsh, William L.,3,437,445.
Hay, Russell G.; Mc Nutly, John G.; and Walsh, William L.,3,461,184.
Walsmann, Peter: *See—*
Markwardt, Fritz; Schafer, Gerhard; Topfer, Horst; and Walsmann, Peter,3,432,596.
Walsom, Derek J., to Pegg, Samuel, & Son Limited. Winch and like dyeing machines. 3,479,846, 11-25-69, Cl. 68-62.
Walstrom, John E., to Chevron Research Company. Offshore seismic cable stress sensing system. 3,477,696, 11-11-69, Cl. 254-173.
Walstrom, Leslie R., to Fabri-Tek Incorporated. Selective punch device. 3,454,218, 7-8-69, Cl. 234-39.
Walter, Andrew T.; Bryant, George M.; and Purcell, Chester L., to Union Carbide Corporation. Alkali metal salts of ethylene-acrylic acid interpolymers. 3,472,825, 10-14-69, Cl. 260-88.1
Walter, Andrew T.: *See—*
Zutty, Nathan L.; Welch, Frank J.; Sullivan, Edward M.; Bryant, George M.; and Walter, Andrew T.,3,437,719.
Walter, Christian: *See—*
Mehlig, Heinrike; and Walter, Christian,3,451,147.
Walter, Conrad; and Eberwein, Siegfried, to Licentia Patent-Verwaltungs-G.m.b.H. Optical device for protection against laser beams. 3,480,347, 11-25-69, Cl. 350-160.
Walter, Dolores G.: *See—*
Walter, John M.,3,484,065.
Walter, George, to Malco Manufacturing Company, Inc. Connector. 3,434,091, 3-18-69, Cl. 339-14.
Walter, George, to Malco Manufacturing Company, Inc. Buss strip. 3,434,094, 3-18-69, Cl. 339-17.
Walter, George, to Armor Elevator Co., Inc. Flexible safety guide clamp. 3,481,432, 12-2-69, Cl. 187-90.
Walter, Gerard O.: *See—*
Delany, James F.; and Walter, Gerard O.,3,479,934.
Lofrisco, Leonard A.; de Meo, Attilio A.; and Walter, Gerard O.,3,478,254.
Walter, Gerard S.; and Hagan, John. Electrical connector block for wiring duct. 3,425,022, 1-28-69, Cl. 339-22.
Walter, Gerhard, to International Business Machines Corporation. Narrow track magnetic recording. 3,439,918, 4-22-69, Cl. 274-4.
Walter, Jack W.: *See—*
Boodman, Norman S.; Perkins, George W.; and Walter, Jack W.,3,441,497.
Walter, John M., deceased0 (by Walter, Dolores G.; executrix), to Gray, G. A., Company, The. Mechanical column tilting device. 3,484,065, 12-16-69, Cl. 248-13.
Walter Koss offene Handelsgesellschaft: *See—*
Schwab, Manfred, 3,471,191.
Walter, Peter: *See—*
Scheiber, Werner; Walter, Peter; Lehmann, Rolf; and Kowarik, Klaus,3,476,668.
Walter, Richard C., to General Motors Corporation. Hollow stem chill vent chaplet. 3,435,886, 4-1-69, Cl. 164-410.
Walter, Richard T., to Black and Decker Manufacturing Company, The. Moisture-proof accessible brush holder. 3,436,578, 4-1-69, Cl. 310-247.
Walter, Robert Campbell; and Osborn, Ralph K., to Technical Industries, Inc. Adustable solid-state electronic timing switch. 3,483,399, 12-9-69, Cl. 307-252.
Walter, Robert Dennis, to Concentric (Engineering) Limited. Fluid pumps and motors. 3,429,269, 2-25-69, Cl. 103-126.
Walter, Rodney P., to Weather-Seal, Inc. Lock means for sliding doors and the like. 3,448,542, 6-10-69, Cl. 49-449.
Walter, Wallace F.; and Oberdorfer, Karl, to Unexcelled, Inc. Cleaner for meat products. 3,430,278, 3-4-69, Cl. 15-3.13
Walter, William T., to TRG, Incorporated. Ionized alkaline earth metal laser with cyclic excitation and relaxation. 3,484,720, 12-16-69, Cl. 331-94.5
Walters, Clayton T., to Clayton Specialties, Inc. Controlled pattern spraying nozzle. 3,421,701, 1-14-69, Cl. 239-453.
Walters, Derek M., to Gleason Works, The. Workholder and expansible collet therefor. 3,420,537, 1-7-69, Cl. 279-2.
Walters, Floyd P. Shutter and film drive for cinecamera. 3,467,467, 9-16-69, Cl. 352-183.
Walters, Fred L., III: *See—*
Baker, James E.; and Walters, Fred L., III,3,460,649.
Walters, Frederick L.: *See—*
Gallagher, John P.; and Walters, Frederick L.,3,453,208.
Walters, Glenn A., to Cubic Corporation. Dynamic servomechanism reversal system. 3,487,277, 12-30-69, Cl. 318-136.
Walters, Harold A., to Dow Chemical Company, The. Yarn and method of making the same. 3,479,811, 11-25-69, Cl. 57-153.
Walters, Harold A.; and Gooch, Ralph M., to Dow Chemical Company, The. Ornamental paper incorporating plastic elements. 3,442,755, 5-6-69, Cl. 162-168.
Walters, Harold C., to Phillips Petroleum Company. Production of metal salts of dihydrocarbyldithio- phosphoric acids. 3,471,540, 10-7-69, Cl. 260-429.9
Walters, Henry K., Jr.: *See—*
Farr, Thad D.; Walters, Henry K., Jr.; and Fleming, Julius D.,3,484,192.
Walters, Joseph R., to Electran Manufacturing Company. Saturable reactor construction. 3,436,692, 4-1-69, Cl. 333-76.
Walters, Marvin W., to Uniroyal, Inc. Method and apparatus for extruding tire treads. 3,426,116, 2-4-69, Cl. 264-167.
Walters, Richard E., to Avco Corporation. Shipping apparatus. 3,478,869, 11-18-69, Cl. 206-46.
Walters, Richard M.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,458,702.
Walters, Robert E.; and Boysen, Gerd C., to Allen-Bradley Company. Modular electric switch. 3,430,014, 2-25-69, Cl. 200-144.
Walters, Russell W., to Keystone Consolidated Industries, Inc. Combination luggage lock. 3,436,938, 4-8-69, Cl. 70-70.
Walters, Russell W., to Keystone Steel & Wire Company. Sliding patio door lock assembly. 3,437,363, 4-8-69, Cl. 292-113.
Walters, Russell W., to Keystone Steel & Wire Company. Sliding door lock assembly. 3,437,364, 4-8-69, Cl. 292-113.
Walters, Warren Roger, to P M & E Electronics Inc. Ear phone. 3,445,597, 5-20-69, Cl. 179-1.
Walters, Wilfred C., to Sperling & Schwartz, Inc., mesne. Promotional device. 3,471,956, 10-14-69, Cl. 40-70.
Walters, William T.: *See—*
Wood, Fenton M.; and Walters, William T.,3,443,211.
Wood, Fenton M.; Walters, William T.; Rogers, Philip A.; and Proctor, Noel B.,3,437,810.
Walterscheid K.G., Firma: *See—*
Geisthoff, Hubert; Welshof, Hans-Heinrich; and Grosse-Entrup, Hubert, 3,470,712.
Waltham Watch Company: *See—*
Glass, Jerome, 3,473,319.
Walther, Adriaan, 1/2 to Diffraction Limited, Inc., and 1/2 to Mark Systems, Inc., mesne. Optical system with diffraction grating screen. 3,453,035, 7-1-69, Cl. 350-9.
Walther, Albert, to Siemens Aktiengesellschaft. Method and apparatus for producing epitaxial crystalline layers, particularly semiconductor layers. 3,472,684, 10-14-69, Cl. 117-201.
Walther, Carl Kurt: *See—*
Pick, Helmut, 3,464,674.
Walther, Carl Kurt, Walther-Technik: *See—*
Hageluken, Hubert; and Held, Karl, 3,453,782.
Walther, George Ludwig: *See—*
Bos, Jules; Koorneef, Jacob; and Walther, George Ludwig,3,485,958.
Walther, George Ludwig; Koorneef, Jacob; and Bos, Jules, to U.S. Philips Corporation, mesne. Method of manufacturing a flux-sensitive mono- or multi-track magnetic head. 3,474,528, 10-28-69, Cl. 29-603.
Walther, George W.: *See—*
Rogge, John C.; and Walther, George W.,3,422,579.
Walther, George W., to Scott & Fetzer Company, The, mesne. Caster assembly for a convertible floor cleaning machine. 3,452,380, 7-1-69, Cl. 15-49.
Walther, Gerhard: *See—*
Zeile, Karl; Banholzer, Rolf; Walther, Gerhard; Schulz, Werner; and Wick, Helmut,3,472,861.
Walther, William D., to Dayton Steel Foundry Company, The. Tire rims. 3,421,797, 1-14-69, Cl. 301-12.
Walther, William D., to Dayton Steel Foundry Company, The. Disk brake and adjusting means therefor. 3,482,655, 12-9-69, Cl. 188-73.
Walther, William Dean, to Dayton Steel Foundry Company, The. Fifth wheel coupler assembly. 3,442,533, 5-6-69, Cl. 280-435.
Walther, William Dean, to Dayton Steel Foundry Company, The. Fifth wheel coupler assembly. 3,485,513, 12-23-69, Cl. 280-435.
Walther-Buromaschinen G.m.b.H.: *See—*
Engelhardt, Gunter, 3,442,446.
Langenberger, Helmut; and Kruse, Hans, 3,430,012.
Langenberger, Helmut; and Rohrer, Kurt, 3,453,953.
Schrem, Gunter, 3,454,147.
Waltien, Robert R. Foundry technique for the manufacture of heavy wall thickness valves and fittings for nuclear application. 3,446,236, 5-27-69, Cl. 137-375.
Waltke, Robert W., to Ceramco Industrial Corporation. Dowels for fireable ceramic dies and method for their use. 3,453,736, 7-8-69, Cl. 32-40.
Walton, David A.; and Desjardins, Stanley P., to Thiokol Chemical Corporation. Rocket nozzle support and actuation apparatus. 3,436,021, 4-1-69, Cl. 239-265.35
Walton, Edward, to Merck & Co., Inc. 5,5-Dialkyl-D-ribofuranosyl purine compounds and intermediates. 3,431,252, 3-4-69, Cl. 260-209.

Walton, Edward, to Merck & Co., Inc. 2-C or 3-C-alkylribofuransosyl-1-substituted compounds and the nucleosides thereof. 3,480,613, 11-25-69, Cl. 260-209.
Walton, Fredric B. Random selector system for advertising, sales promotion, and selection of award recipients. 3,466,045, 9-9-69, Cl. 273-138.
Walton, George N.: *See*—
Purdy, Geoffrey; and Walton, George N.,3,429,115.
Walton, James P.: *See*—
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P.,3,430,448.
Gauntt, Grover C., Jr.; Isaacs, Robert G.; Martin, Robert L.; and Walton, James P.,3,436,921.
Walton, John F., to Halliburton Company. Dynamic impedance analyzer including synchronous phase detector. 3,477,020, 11-4-69, Cl. 324-57.
Walton, John. Phonograph pick-up with de-coupling of the stylus mass. 3,444,335, 5-13-69, Cl. 179-100.41
Walton, Joseph L., III. Wheel gauge detector system. 3,474,542, 10-28-69, Cl. 33-203.11
Walton, Leonard; and Hogan, Patrick J., to Budd Company, The. Method and apparatus for making holes with cold- worked margins and the product. 3,442,110, 5-6-69, Cl. 72-327.
Walton, Richard Rhodes, to Colgate-Palmolive Company. Washing machine. 3,423,965, 1-28-69, Cl. 68-38.
Walton, Richard Rhodes. Confining device for compressive treatment of materials. 3,426,405, 2-11-69, Cl. 26-18.6
Walton, Richard Rhodes, to Council for Tobacco Research-U.S.A. Smoking machine. 3,476,119, 11-4-69, Cl. 131-171.
Walton, William Thomas; and Holzrichter, Edward Julius, to PRA Laboratories, Inc. (Paint Research Associates). Interpolymers of castor oil and vinyl monomers. 3,461,093, 8-12-69, Cl. 260-21.
Waltrip, Owen R., 25% to Konsonlas, John, and 10% to Lunardi, Paul J., and 10% to Hampton, Willis. Electro-chemical method for selected dissociation. 3,480,529, 11-25-69, Cl. 204-130.
Walts, John M.: *See*—
Grifo, Richard A.; Walts, John M.; and Schenck, Leslie M.,3,468,805.
Walts, John M.; and Schenck, Leslie M., to GAF Corporation. Method for the preparation of wax phenols. 3,423,473, 1-21-69, Cl. 260-619.
Waltz, Albert Richard, to Hughes Aircraft Company. Automatic classifying device. 3,450,259, 6-17-69, Cl. 209-74.
Waltz, Otto, to Bolkow Gesellschaft mit beschrankter Haftung. Fuel component feed system for a liquid fuel thrust engine and liquid fuel rocket engine construction. 3,440,821, 4-29-69, Cl. 60-259.
Walwark, Roger; and Rhatican, Cyril R., to National Lead Company. Apparatus for producing proportioned admixtures of gaseous components. 3,453,412, 7-1-69, Cl. 219-271.
Walwood Products, Inc.: *See*—
Dunklee, Donovan M., 3,419,942.
Walworth, Vivian K., to Polaroid Corporation. Photosensitive elements. 3,459,553, 8-5-69, Cl. 96-104.
Waly, Adnan; Just, Richard; Schwartzman, Leonard; and Alster, David I., to Electrospace Corporation. Dosimeter for measuring neutron and gamma radiation. 3,426,197, 2-4-69, Cl. 250-83.
Waly, Moustapha, to Anicet Anstalt. Method of photoelectric copying. 3,464,818, 9-2-69, Cl. 96-1.3
Walz, Alfred; and Ostreicher, Robert, to FRAKO Kondensatoren- und Apparatebau G.m.b.H. Constant potential transformer. 3,454,868, 7-8-69, Cl. 323-60.
Walz, Harry George, to Borden Company, The. Package of tape. 3,469,680, 9-30-69, Cl. 206-52.
Walz, Heinz: *See*—
Hettich, Alfred; Schadlich, Fritz; Walz, Heinz; and Paule, Kurt,3,475,780.
Koch, Werner; Roth, Hermann; and Walz, Heinz,3,470,702.
Rupprecht, Joachim; and Walz, Heinz,3,449,173.
Walz, Heinz; and Koch, Werner, to Siemens Aktiengesellschaft. Device for determining the photosynthetic capacity and the transpiration rate of plants. 3,473,022, 10-14-69, Cl. 250-43.5
Walz, Paul Otto Kurt; Van Schyndel, Andreas; and Pasberg, Max, to Bay-Stahlgewebe GmbH. Reinforced concrete road construction. 3,437,017, 4-8-69, Cl. 94-8.
Walz, Peter Otto, to Rapid Industrial Process Corporation Ltd. Mold for precast building materials. 3,441,243, 4-29-69, Cl. 249-81.
Walzel, Leopold, to Demag Aktiengesellschaft. Converter tilt drive. 3,464,686, 9-2-69, Cl. 266-36.
Wambach, Gunther; and Stielke, Sennor, to Stettner & Co. Minature trimmer condenser. 3,486,089, 12-23-69, Cl. 317-249.
Wamboldt, Gary R., to Warwick Electronics Inc. Friction pivot for phonograph tray. 3,471,972, 10-14-69, Cl. 117-34.
Wampler, David M.: *See*—
Leflet, Herbert A., Jr.; and Wampler, David M.,3,457,060.
Wampler, David M.; and Leflet, Herbert A., Jr., to Libbey-Owens-Ford Glass Company. Apparatus for bending glass sheets. 3,433,616, 3-18-69, Cl. 65-289.
Wamser, Christian A.: *See*—
Sukornick, Bernard; and Wamser, Christian A.,3,422,159.
Wanamaker, Donald. Craft sculpture method. 3,457,625, 7-29-69, Cl. 29-407.
Wandel & Goltermann: *See*—
Bayer, Herbert, 3,480,862.
Wandel, Kurt. Method of producing a corrugated member. 3,449,157, 6-10-69, Cl. 156-204.
Wandel, Martin: *See*—
Reichle, Alfred; Wandel, Martin; and Borger, Heinrich,3,421,857.
Wandel, Oscar A., to Fastener Corporation. Fastener driving apparatus. 3,434,643, 3-25-69, Cl. 227-130.
Wandel u. Goltermann KG.: *See*—
Bayer, Herbert, 3,461,385.
Bayer, Herbert, 3,486,112.
Hoffmann, Gunther, 3,453,542.
Hoffmann, Wolfgang; Neuscheler, Friedrich; and Schuon, Eberhard, 3,474,356.
Wander, A., Dr., S.A.: *See*—
Martin, Frithjof, 3,451,375.
Riva, Aldo, 3,459,850.
Schmutz, Jean; Hunziker, Fitz; and Kunzle, Franz Martin, 3,454,561.
Schmutz, Jean; Hunziker, Fritz; Kunzle, Franz Martin; and Russel, Jeff Hamish, 3,478,056.
Wanderer, Herbert Jourdan, to Illinois Tool Works, Inc. Container carrier and package. 3,443,685, 5-13-69, Cl. 206-65.
Wanderman, Herbert A., to Engineering Model Associates. Model structural system. 3,419,970, 1-7-69, Cl. 35-16.
Wanderman, Herbert A.; and Harris, Stanley R., to Engineering Model Associates. Identifying system. 3,481,058, 12-2-69, Cl. 40-2.
Wanek, Donald J., to International Business Machines Corporation. Document feeding apparatus. 3,481,597, 12-2-69, Cl. 271-36.
Waner, Donald W., to North American Rockwell Corporation, mesne. Self-locking adjustable stanchion. 3,480,247, 11-25-69, Cl. 248-355.
Waner, John L.: *See*—
Moore, Chester W.; and Waner, John L.,3,480,727.
Wang, An: *See*—
Chang, Ned; Robinson, Prentice I.; and Wang, An,3,428,950.
Wang, An, to Wang Laboratories, Inc. Parallel binary to binary coded decimal and binary coded decimal to binary converter utilizing cascaded logic blocks. 3,449,555, 6-10-69, Cl. 235-155.
Wang, An, to Wang Laboratories, Inc. Scanned display device. 3,474,437, 10-21-69, Cl. 340-324.
Wang, Chan Huan: *See*—
Rogers, William O.; and Wang, Chan Huan,3,482,419.
Wang, Chih-Chung, to Kennecott Copper Corporation. Process and apparatus for the production of elongated metal articles. 3,474,009, 10-21-69, Cl. 204-35.
Wang, Chih Chun, to RCA Corporation. Growing monocrystalline stoichiometric magnesium aluminate. 3,472,615, 10-14-69, Cl. 23-52.
Wang, Chu Ping, to International Business Machines Corporation. Associative memory device. 3,466,631, 9-9-69, Cl. 340-174.
Wang, Chu Ping, to International Business Machines Corporation. Associative memory device. 3,466,632, 9-9-69, Cl. 340-174.
Wang, David I-J, to Union Carbide Corporation. Cryogenic storage tanks. 3,441,164, 4-29-69, Cl. 220-9.
Wang, David I-J.: *See*—
Theophilos, Nicholas P.; and Wang, David I-J.,3,457,990.
Wang, Han-Chiu: *See*—
Abele, Thomas A.; and Wang, Han-Chiu,3,466,573.
Wang, Johnson J. H.: *See*—
Rudduck, Roger C.; and Wang, Johnson J. H.,3,466,653.
Wang Laboratories, Inc.: *See*—
Chang, Ned; Robinson, Prentice I.; and Wang, An, 3,428,950.
Trantanella, Frank M., 3,470,542.
Wang, An, 3,449,555.
Wang, An, 3,474,437.
Wang, Robert; and Yerouchalmi, David, to Commissariat a l'Energie Atomique. Fluid fuel burner. 3,424,541, 1-28-69, Cl. 431-158.
Wang, Samuel S. M., to Dow Chemical Company, The. Piperazine adducts of ketone mercaptoles. 3,485,843, 12-23-69, Cl. 260-268.
Wang, Tsih Chang; Fouad, Abdel-Azia A.; and Woehler, Karlheinz Edgar, to North American Rockwell Corporation. Magnetohydrodynamic generation of electricity. 3,483,403, 12-9-69, Cl. 310-11.
Wang, Tsih-Chang: *See*—
Prem, Lawrence L.; and Wang, Tsih-Chang,3,478,234.
Prem, Lawrence L.; and Wang, Tsih-Chang,3,483,405.
Wang, Tze Seng: *See*—
Geble, Paul H.; Smolin, Edwin M.; Wang, Tze Seng; and Volgstadt, Frank R.,3,457,219.
Wanielista, Walter: *See*—
MacPhee, Paul A.; Wanielista, Walter; and Jeschke, Richard R.,3,433,567.
Wanke, Karl, to Licentia Patent-Verwaltungs-G.m.b.H. Cooling system for electrical generators. 3,439,202, 4-15-69, Cl. 310-52.
Wanlass, Cravens L., to Wanlass Electric Company. AC solid state voltage regulator. 3,461,376, 8-12-69, Cl. 323-22.
Wanlass Electric Company: *See*—
Wanlass, Cravens L., 3,461,376.

Wanlass, Leslie K., 3,443,198.
Wanlass, Frank M., to General Instrument Corporation. Diode with sharp reverse-bias breakdown characteristic. 3,423,606, 1-21-69, Cl. 307-302.
Wanlass, Frank M., to General Instrument Corporation. Four phase clock circuit. 3,448,295, 6-3-69, Cl. 307-260.
Wanlass, Frank M.; and Shultz, Robert M., to General Instruments Corporation. Method of making a phosphorous-protected semiconductor device. 3,438,121, 4-15-69, Cl. 29-578.
Wanlass, Leslie K., to Wanlass Electric Company, mesne. Variable inductor conversion system. 3,443,198, 5-6-69, Cl. 321-25.
Wanmaker, Willem Lambertus: *See*—
Ouweltjes, Jan Lourens; Wanmaker, Willem Lambertus; and Radielovic, Dragutin,3,468,811.
Wanmaker, Willem Lambertus; Radielovic, Dragutin; and Hoekstra, Age Hylke, to U.S. Philips Corporation, mesne. Methods of preparing an alkaline earth halophosphate. 3,468,812, 9-23-69, Cl. 252-301.6
Wanmaker, Willem Lambertus; and Verlijsdonk, Johannes Godefridus, to North American Philips Company, Inc. Terbium or terbium and gadolinium activated mixed alkaline earth alkali metal borate luminescent substance. 3,423,325, 1-21-69, Cl. 252-301.4
Wannamaker, Thomas M.; Carter, Charles I.; and Rogers, Rupert O., to International Paper Company. Spiral wound can for packaging beverages under substantial pressure. 3,428,239, 2-18-69, Cl. 229-5.6
Wanner, Karl: *See*—
Paule, Kurt; Bleicher, Manfred; Martin, Hans; Wanner, Karl; Bronnert, Helmut; and Koehler, Heinrich,3,456,740.
Wanner, Louis R., to Sylvania Electric Products, Inc. Process for assembling an electron tube electrode. 3,483,349, 12-9-69, Cl. 219-107.
Wanneroy, Roland Charles, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes. System for damping mooring shocks. 3,457,729, 7-29-69, Cl. 61-48.
Wansbrough, Brian; and Turnbull, Robert Malcolm. Door handle assembly. 3,471,190, 10-7-69, Cl. 292-356.
Wanselow, Robert D.; and Milligan, Dale W., to Northrop Corporation. Low profile antenna having horizontal tunable top loading member. 3,427,624, 2-11-69, Cl. 343-750.
Wanser, Henry G.: *See*—
Winks, Fred H.; and Wanser, Henry G.,3,432,653.
Wansink, Jan Herman, to U.S. Philips Corporation, mesne. Suction soldering iron. 3,469,759, 9-30-69, Cl. 228-20.
Wanskuck Company: *See*—
Schillebeeckx, Konrad C., 3,425,203.
Starratt, Everett O., 3,446,455.
Starratt, Everett O., 3,452,946.
Starratt, Everett O., 3,468,495.
Wilson, Ronald, 3,434,610.
Wantz, Clarence; and Golden, Robert L., to Robertshaw Controls Company. Method for controlling the operation of actuator means or the like. 3,454,784, 7-8-69, Cl. 307-141.
Wantz, Clarence: *See*—
Golden, Robert L.; Wantz, Clarence; Rice, Harold W.; Beck, Roland D.; and Palmer, Reed A.,3,428,768.
Wanzenberg, Frederick Wheelock; and Wanzenberg, Fritz Walter. Deep mine ore retrieval system. 3,485,534, 12-23-69, Cl. 302-11.
Wanzenberg, Frederick W.; and Wanzenberg, Fritz W. Planetary engine. 3,451,380, 6-24-69, Cl. 123-8.
Wanzenberg, Fritz Walter: *See*—
Wanzenberg, Frederick Wheelock; and Wanzenberg, Fritz Walter,3,485,534.
Wanzenberg, Frederick W.; and Wanzenberg, Fritz W.,3,451,380.
Waples, George E., Jr., to Dow Chemical Company, The. Ethylene copolymers. 3,471,459, 10-7-69, Cl. 260-88.1
Waples, George E., Jr., to Dow Chemical Company, The. Modified wax compositions. 3,485,784, 12-23-69, Cl. 260-28.5
Wapner, Joseph; Nines, Eugene; and Asai, Isao, to Fischer & Porter Co. Frequency modification of pulse train as a function of an analog signal. 3,448,408, 6-3-69, Cl. 332-9.
Warawa, Edward J.: *See*—
Biel, John H.; and Warawa, Edward J.,3,471,522.
Warburton, Joe A.: *See*—
Gordon, William D.; and Warburton, Joe A.,3,441,893.
Trekell, Harold E.; and Warburton, Joe A.,3,448,617.
Warco Industries, Inc.: *See*—
Lotspeich, Joseph A.; and Lotspeich, Joseph F., 3,448,420.
Ward, Abraham W.; and Whipple, Raymond T. Quickly engageable and disengageable coupling or chuck. 3,479,041, 11-18-69, Cl. 279-42.
Ward, Alan, to Leesona Corporation. Textile machine. 3,443,371, 5-13-69, Cl. 57-34.
Ward, Alan. Conveying apparatus. 3,479,092, 11-18-69, Cl. 302-29.
Ward, Alphonsus Edward: *See*—
Pinkerton, Henry Latta; Graham, Arthur Kenneth; and Ward, Alphonsus Edward,3,463,215.
Ward, Ashley F., Inc.: *See*—
Friedmann, Anton R. J.; and Eby, Ralph H., 3,434,664.
Ward, Benjamin, to Burman & Sons Limited. Steering column assembly. 3,475,984, 11-4-69, Cl. 74-492.
Ward, Bennie R., Jr., to Reynolds Metals Company. Method of making composite sheet structures with internal passages by roll bonding. 3,425,113, 2-4-69, Cl. 29-157.3
Ward Blenkinsop & Company Limited: *See*—
Green, Peter N.; and Shapero, Maurice, 3,426,043.
Shapero, Maurice; and Green, Peter Nicholl, 3,472,874.
Ward, Curtis E., to Varian Associates. Temperature compensated klystrons. 3,466,495, 9-9-69, Cl. 315-5.23
Ward, Curtis E., to Varian Associates. Gap tuned reflex klystron having an enlarged movable diaphragm disposed in R.F. isolation with respect to the R.F. cavity. 3,475,645, 10-28-69, Cl. 315-5.22
Ward, David Marshall: *See*—
Richards, Edward Gordon; Ward, David Marshall; Hales, Keith John; and Stephenson, Norman,3,479,157.
Ward; Dennis J., to Universal Oil Products Company. Alkylation-transalkylation process. 3,428,701, 2-18-69, Cl. 260-671.
Ward, Dennis J.: *See*—
Maier, William H.; and Ward, Dennis J.,3,478,119.
Ward, Derrick Arnott: *See*—
Warner, Arthur Richard; and Ward, Derrick Arnott,3,424,947.
Ward, Edward A.: *See*—
Lassen, Herbert A.; and Ward, Edward A.,3,423,755.
Ward, Edward John: *See*—
Wheeler, Kenneth John; and Ward, Edward John,3,474,828.
Ward, Eric Henry, to British Petroleum Company Limited, The. Method and apparatus for logging boreholes using time position telemetry. 3,445,658, 5-20-69, Cl. 250-71.5
Ward, Eugene T., to Allied Steel & Tractor Products, Inc. Automatic pneumatic impact hammer. 3,464,501, 9-2-69, Cl. 173-17.
Ward Foods, Inc.: *See*—
Farmer, John, 3,450,178.
Ward, Fred L.; Thompson, Edwin A.; and Ritchie, Harold D., to Boeing Company, The. Thermal color change marking of elastomers. 3,442,749, 5-6-69, Cl. 161-33.
Ward, Frederick Gifford; and Davey, Anthony W., to Morris, Herbert, Limited. Drives for conveyors. 3,426,887, 2-11-69, Cl. 198-177.
Ward, Frederick N., to United States of America, Interior. Process for determining mercury in geologic materials. 3,434,800, 3-25-69, Cl. 23-230.
Ward, Geoffrey R.: *See*—
Briskin, Theodore S; and Ward, Geoffrey R.,3,447,539.
Briskin, Theodore S.; and Ward, Geoffrey R.,3,478,751.
Briskin, Theodore S.; and Ward, Geoffrey R.,3,478,752.
Briskin, Theodore S.; and Ward, Geoffrey R.,3,482,578.
Ward, George C., to Celanese Corporation. Process for altering the acid dye receptivity of nylon. 3,449,057, 6-10-69, Cl. 8-15.
Ward, George C.; Todd, Chester F.; Proctor, Dale D.; and Cofer, Daniel B., to Southwire Company. Casting process. 3,469,620, 9-30-69, Cl. 164-70.
Ward, George C.: *See*—
Cofer, Daniel B.; Ward, George C.; and Bray, Thomas L.,3,478,813.
Cofer, Daniel B.; Ward, George C.; Proctor, Dale D.; and Bray, Thoma L.,3,454,077.
Ward, Gerald G., to International Harvester Company. Coupling pin protector. 3,433,118, 3-18-69, Cl. 85-8.3
Ward, Gerald G., to International Harvester Company. Plow trip. 3,439,748, 4-22-69, Cl. 172-269.
Ward, Harold R.: *See*—
Fischer, Howard E.; and Ward, Harold R.,3,457,873.
Ward, Howard C., Jr.: *See*—
Brennan, Thomas E.; and Ward, Howard C., Jr.,3,436,580.
Ward, Hubert L. Sanding apparatus. 3,423,881, 1-28-69, Cl. 51-87.
Ward, Irving A.: *See*—
Bucknell, Ernest H.; and Ward, Irving A.,3,460,570.
Bucknell, Ernest H.; and Ward, Irving A.,3,461,901.
Ward, Ivan Malcolm, to Wilson, Geo. H., (Shilton) Limited. Tool posts. 3,459,077, 8-5-69, Cl. 82-37.
Ward, James E., to Relton Corporation. Personnel location system. 3,439,320, 4-15-69, Cl. 340-16.
Ward, James E., to Motorola, Inc. Circuit for providing a filtered DC potential and an actuating pulse for an electromagnetic device. 3,452,162, 6-24-69, Cl. 179-100.2
Ward, James W.: *See*—
King, Harry J.; Molitor, Jerome H.; and Ward, James W.,3,443,570.
Ward, Jesse E., Jr. Hydraulic levelling and control means for tractors and other vehicles. 3,480,098, 11-25-69, Cl. 180-41.
Ward, John G., to Monroe Auto Equipment Company, mesne. Comparative shock-absorber demonstration stand. 3,444,629, 5-20-69, Cl. 35-50.
Ward, John M.; and Squire, George L., to Haveg Industries, Inc. Sodium carbonate treatment of high silica fiber products. 3,454,453, 7-8-69, Cl. 161-7.
Ward, Lawrence C. Miniature golf course. 3,427,030, 2-11-69, Cl. 273-176.

Ward, Lawrence T. Liquid applicator. 3,457,014, 7-22-69, Cl. 401-41.
Ward, Lawrence T. Liquid applicator. 3,468,611, 9-23-69, Cl. 401-186.
Ward, Leo T. Fire fighting aircraft. 3,481,405, 12-2-69, Cl. 169-1.
Ward, Lowell G., to Huyck Corporation. Industrial conveyor belts. 3,421,230, 1-14-69, Cl. 34-95.
Ward, Lowell G.: *See—*
Wicker, Dan B.; Bennett, James G., Jr.; and Ward, Lowell G.,3,481,806.
Ward, Loyal F., Jr.; and Phillips, Donald D., to Shell Oil Company. Method of controlling insects with dimethyl 2- chloro-1-(2,5-dichlorophenyl) vinyl phosphate. 3,435,113, 3-25-69, Cl. 424-225.
Ward Manufacturing, Inc.: *See—*
Daniels, Lawrence E.; and Hunter, William B., 3,456,978.
Daniels, Lawrence E., 3,475,047.
Hunter, William B., 3,456,979.
Ward, Peter A.: *See—*
Brownhill, Frank D.; Walker, Michael K.; and Ward, Peter A.,3,478,591.
Ward, Peter Arthur, to Rolls-Royce Limited. Fan thrust reverser for a jet propulsion plant. 3,483,702, 12-16-69, Cl. 60-229.
Ward, Peter William: *See—*
Page, Peter Colin; Rous, Ronald Frank; Sigrist, Paul; and Ward, Peter William,3,423,539.
Ward, Raymond G.; and Witzky, Julius E., to American Gas Association, Inc., mesne. Stratified charge gas engine. 3,425,399, 2-4-69, Cl. 123-32.
Ward, Raymond M. Aquatic exercising aid device. 3,427,022, 2-11-69, Cl. 272-80.
Ward, Samuel I., to Crystal Research Laboratories, Inc. Container for air treating devices. 3,421,839, 1-14-69, Cl. 21-74.
Ward, Texas: *See—*
Grosbard, Gregory, 3,480,811.
Ward, Thomas E. Activator for display or advertising. 3,486,260, 12-30-69, Cl. 40-106.31
Ward, Trevor, to Hotwork Limited. Burners for furnaces. 3,420,614, 1-7-69, Cl. 431-215.
Ward, Trevor, to Hotwork Limited. Heating up furnaces. 3,434,704, 3-25-69, Cl. 263-43.
Ward, Trevor, to Hotwork Limited. Burners for furnaces. 3,468,616, 9-23-69, Cl. 431-166.
Ward, Wardell L. Time recorder. 3,484,790, 12-16-69, Cl. 346-59.
Ward, Wilfred T.; and Adams, Robert E., to United States of America, Atomic Energy Commission. Method of removing radioiodine values from a gaseous medium. 3,466,137, 9-9-69, Cl. 23-2.
Ward, Wiliam K.: *See—*
McGavern, Sanford A.; and Ward, Wiliam K.,3,440,899.
Ward, William H., Jr., to General Monitors, Inc. Apparatus for gas detection. 3,436,328, 4-1-69, Cl. 204-195.
Ward, William J., to Nalco Chemical Company. Method of improving shock temperature of metallic pellets. 3,425,823, 2-4-69, Cl. 75-5.
Ward, William W. Drinking attachment for containers. 3,429,478, 2-25-69, Cl. 220-90.2
Wardale, David J. S., to Corning Glass Works. Driving means for rotary heat exchangers. 3,430,687, 3-4-69, Cl. 165-8.
Warden, Donald E., to United States of America, Army. Controlled area projector. 3,450,472, 6-17-69, Cl. 353-11.
Warden, Douglas A.: *See—*
Kenny, Neal S.; Warden, Douglas A.; and Sapakie, Alan Louis,3,480,372.
Warden, Hans E., to Siemens Aktiengesellschaft. Stand for an X-ray device. 3,434,684, 3-25-69, Cl. 248-162.
Warden, Hans Erik. X-ray table equipment. 3,463,921, 8-26-69, Cl. 250-54.
Warden, Thomas B., Jr. Rope gripping device for climbing ropes. 3,470,982, 10-7-69, Cl. 182-192.
Wardi, Ruben. Production of phosphorus acid esters. 3,470,270, 9-30-69, Cl. 260-926.
Wardle, Leonard George: *See—*
Brough-Cunningham, Keith Begbie; Wardle, Leonard George; and Cullen, Michael,3,467,889.
Wardle, Meredith C.: *See—*
Mayhew, Harry E., Jr.; and Wardle, Meredith C.,3,456,908.
Wardleworth, James; and Poole, Victor David, to Imperial Chemical Industries, Limited. Process for the coloration of cellulosic textile materials with reactive phthalocyanine dyestuffs and the dyes therefor. 3,424,544, 1-28-69, Cl. 8-54.2
Wardup, Willis W. Air operated adjustable water sprinkler valve. 3,456,883, 7-22-69, Cl. 239-452.
Ware, Charles H., Jr.: *See—*
Kerr, Edwin R.; Ware, Charles H., Jr.; and Stepanek, William D.,3,429,941.
Ware, Chester D., to Trane Company, The. Transformer cooling apparatus. 3,467,178, 9-16-69, Cl. 165-107.
Ware, John. Peroxidic curing of polymers. 3,436,371, 4-1-69, Cl. 260-46.5
Ware, R. Louis. Method for improving the development and growth characteristics of seed bearing plant life. 3,453,775, 7-8-69, Cl. 47-58.
Ware, Richard E.; and Hall, Lewis W., Jr., to Sun Oil Company. Process for treating molds. 3,450,551, 6-17-69, Cl. 117-5.1
Wareham, Richard C. Method of forming a heat shrinkable tubular sleeve and bonding same to a tubular member. 3,466,210, 9-9-69, Cl. 156-86.
Wareham, Richard R., to Polaroid Corporation. Composite rollfilm assembly for use in the diffusion transfer process. 3,451,818, 6-24-69, Cl. 96-78.
Warfield, John N., to Wilcox Electric Company. Digital squelch system. 3,437,937, 4-8-69, Cl. 325-478.
Wargo, Evelyn H., to General Electric Company. Y-type clevis yoke for electric power transmission lines. 3,467,205, 9-16-69, Cl. 174-144.
Wargo, Peter: *See—*
Powell, Patrick L.; and Wargo, Peter,3,452,606.
Waride, Yoshio, to Sumitomo Electric Industries, Ltd. Method of jointing insulated electric wires. 3,467,561, 9-16-69, Cl. 156-49.
Waring, Juliet Mary: *See—*
Ritchie, Alexander Crawford; Cheesman, Dennis George; Garside, Peter; and Waring, Juliet Mary,3,466,295.
Waring, Richard J.: *See—*
Kent, George A.; and Waring, Richard J.,3,444,425.
Kent, George A.; and Waring, Richard J.,3,449,514.
Kent, George A.; and Waring, Richard J.,3,461,233.
Kent, George A.; and Waring, Richard J.,3,485,947.
Kent, George; and Waring, Richard J.,3,457,366.
Waring, Wilson Shaw, to Imperial Chemical Industries Limited. Dibenzothiazines. 3,420,823, 1-7-69, Cl. 260-243.
Wark, John Duncan: *See—*
Metzler, Charles Lewis; Holzwarth, Henry Albert; and Wark, John Duncan,3,441,192.
Warman, Bloomfield James, to Associated Electrical Industries Limited. Automatic telephone exchange switching equipment. 3,420,962, 1-7-69, Cl. 179-18.
Warman, Bloomfield James; Hicks, Donald Keith; and Barned, Alan James, to Associated Electrical Industries Limited. Automatic telephone exchange switching systems. 3,449,521, 6-10-69, Cl. 179-16.
Warman, Bloomfield, to Associated Electrical Industries Limited. Subscriber's line circuit using reed relays. 3,426,155, 2-4-69, Cl. 179-18.
Warman, Charles Harold, to Research and Development Pty., Ltd. Froth flotation apparatus. 3,464,552, 9-2-69, Cl. 209-170.
Warman, Charles H., to Research and Development Pty. Ltd. Fluid tight joint. 3,421,652, 1-14-69, Cl. 220-46.
Warman, Charles P., to Wichita Clutch Company, Inc. Friction plate with heat dissipating material. 3,435,935, 4-1-69, Cl. 192-107.
Warman, Charles P., to Wichita Clutch Company, Inc. Heat dissipating clutch or brake with a peripheral- ly pivoted planar wear plate for expansive movement in a coextensive plane. 3,435,936, 4-1-69, Cl. 192-113.
Warman, Stephen Ivan, to Data Laboratories Limited. Board game apparatus for simulating computer operation. 3,430,960, 3-4-69, Cl. 273-131.
Warmerdam, John A. M. Cattle stalls. 3,421,478, 1-14-69, Cl. 119-27.
Warmkessel, Harry J.: *See—*
Fischer, Alvin M.; and Warmkessel, Harry J.,3,442,502.
Warmuth, Donald B.: *See—*
Bomberger, Howard B., Jr.; and Warmuth, Donald B.,3,436,277.
Warn, Richard A., Sr.: *See—*
Hain, Robert W.; and Warn, Richard A., Sr.,3,486,610.
Warn-Belleview, Inc.: *See—*
Hegar, Frank, 3,442,361.
Warnach, Klaus: *See—*
Neuroth, Norbert; and Warnach, Klaus,3,465,074.
Warnaka, Glenn E., to Lord Corporation. Sound attenuating wall for blocking transmission of intelligible speech. 3,422,921, 1-21-69, Cl. 181-33.
Warnant, Julien: *See—*
Joly, Robert; Warnant, Julien; and Guillemette, Armand,3,458,540.
Joly, Robert; Warnant, Julien; Jolly, Jean; Prost-Marechal, Jacques; Bucourt, Robert; and Tessier, Jean,3,424,745.
Vignau, Michel; Bucourt, Robert; Tessier, Jean; Costerousse, Germain; Nedelec, Lucien; Gasc, Jean-Claude; Joly, Robert; Warnant, Julien; and Goffinet, Bernard,3,453,267.
Warncke, Ernst; and Haas, Hans, to Drager, Otto H. Lung-controlled valve for breathing apparatus. 3,457,953, 7-29-69, Cl. 137-614.19
Warncke, Ernst; and Haas, Hans, to Drager, Otto H. Breathing apparatus. 3,483,887, 12-16-69, Cl. 137-494.
Warne, Eugene Harold, to Lucas, Joseph, (Industries) Limited. Gear pumps. 3,439,625, 4-22-69, Cl. 103-126.
Warne, Eugene Harold, to Lucas, Joseph, (Industries) Limited. Fuel systems for gas turbine engines. 3,475,908, 11-4-69, Cl. 60-39.28

Warne, Eugene Harold, to Lucas, Joseph, (Industries) Limited. Pumping apparatus for supplying fuel to an engine. 3,475,909, 11-4-69, Cl. 60-39.28
Warne, Eugene Harold, to Lucas, Joseph, (Industries) Limited. Fuel systems for gas turbine engines. 3,475,910, 11-4-69, Cl. 60-39.28
Warne, Eugene Harold; and Long, Geoffrey Albert, to Lucas, Joseph (Industries) Limited. Fuel flow control apparatus for gas turbine engines. 3,444,688, 5-20-69, Cl. 60-39.28
Warnecke, Karl, to Continental Gummi-Werke Aktiengesellschaft. Charging device for tire vulcanizing presses. 3,448,487, 6-10-69, Cl. 18-2.
Warneke, Richard J. Teaching device. 3,468,037, 9-23-69, Cl. 35-9.
Warneke, Richard J. Teaching device. 3,477,146, 11-11-69, Cl. 35-75.
Warnell, Joseph Leo, to Du Pont de Nemours, E. I., and Company. Primary fluorocarbon alkoxides. 3,449,389, 6-10-69, Cl. 260-431.
Warner & Swasey Company , The: *See*—
Maceyka, Joseph G.; O'Kane, Roger J., Jr.; and Kothe, Hans, 3,436,998.
Warner & Swasey Company, The: *See*—
Diener, Robert E.; and Spisak, Andrew A., 3,436,994.
Dolin, Stanley A.; and Rosin, Seymour, 3,436,964.
Dolin, Stanley A., 3,460,892.
Jacob, Harry J., Jr., 3,474,705.
Janning, Fred J., 3,437,278.
Kincaid, Ronald David, 3,470,587.
Kundrach, Steve W., 3,445,048.
Kundrach, Steve W., 3,460,205.
Laumann, Edward F.; and Jacob, Harry J., Jr., 3,449,822.
Livingston, Emmett S., 3,479,700.
Pryzybylski, Daniel F., 3,441,154.
Rayfield, James Arthur F.; and Whitehurst, Joe R., 3,445,894.
Schultz, Roger O.; and Horvath, Joseph L., 3,464,710.
Selby, Jack H., 3,440,691.
Shook, William M., 3,481,251.
Spisak, Andrew A., 3,439,386.
Vetsch, Rudolf August, 3,424,040.
Whewell, Robert, J., 3,481,134.
Whitehurst, Joe R., 3,438,252.
Whitehurst, Joe R., 3,444,594.
Whitehurst, Joe R., 3,457,596.
Whitehurst, Joe Rufus, 3,446,542.
Warner, Albert C.; and Allen, Manton E. Defensive weapon and cartridge therefor. 3,431,853, 3-11-69, Cl. 102-39.
Warner, Arthur Richard. Blind cleaning appliance. 3,445,880, 5-27-69, Cl. 15-210.
Warner, Arthur Richard; and Ward, Derrick Arnott. Electric discharge tube apparatus. 3,424,947, 1-28-69, Cl. 315-323.
Warner, Arthur W., Jr.: *See*—
Onoe, Morio; and Warner, Arthur W., Jr.,3,461,408.
Warner Bros. Cosmetics, Inc.: *See*—
Bau, Robert Gordon, 3,461,886.
Warner, Dale J. Production pacing device. 3,482,083, 12-2-69, Cl. 235-92.
Warner, Darrel M., to Aerojet-General Corporation. Toroidal winding method and apparatus. 3,458,146, 7-29-69, Cl. 242-4.
Warner Electric Brake & Clutch Company: *See*—
Bales, Robert C., 3,420,347.
Block, Paul E., 3,480,048.
Braukhoff, Ronald E., 3,444,966.
Brendemuehl, Roger C., 3,439,249.
Clark, Robert H.; and Myers, Philip E., 3,444,970.
Easton, Harold, 3,484,666.
Kroeger, Edward R., 3,470,987.
Simonson, Leroy W.; and Dahlberg, Barry A., 3,461,747.
Warner, Glenn H., to Union Carbide Corporation. Preparation of amine ethers. 3,426,072, 2-4-69, Cl. 260-584.
Warner, Henry B., to McDonnell Douglas Corporation, mesne. Radio frequency energy attenuator. 3,425,004, 1-28-69, Cl. 333-79.
Warner, Henry L.: *See*—
Folds, Donald L.; Brown, David H.; and Warner, Henry L.,3,483,504.
Haney, Ted I.; and Warner, Henry L.,3,469,230.
Warner, John H., III; and Warner, William W. Cable control mechanism for controlling the flight of model airplanes. 3,484,845, 12-16-69, Cl. 46-77.
Warner, Joseph S.: *See*—
Hellman, David H.; and Warner, Joseph S.,3,449,058.
Warner, Kent F. Conveyor sorting device for small loads. 3,469,535, 9-30-69, Cl. 104-88.
Warner, Lorenzo A. Elongated pickup for metal stringed musical instruments having ferromagnetic shielding. 3,483,303, 12-9-69, Cl. 84-1.15
Warner, Louis A. Calculating device. 3,419,962, 1-7-69, Cl. 33-111.
Warner, Paul F., to Phillips Petroleum Company. Production of dithiols. 3,484,355, 12-16-69, Cl. 204-162.
Warner, Paul F.; and Tompkins, Harold W., to Phillips Petroleum Company. Purification of alkane and cycloalkane disulfides. 3,454,651, 7-8-69, Cl. 260-608.
Warner, Raymond M., Jr., to Texas Instruments, Incorporated. Compound channel insulated gate triode. 3,436,622, 4-1-69, Cl. 317-235.
Warner, Richard E., to Valley Tow-Rite, Inc. Trailer hitch assembly. 3,463,514, 8-26-69, Cl. 280-495.
Warner, Robert Edmund, to Polymer Corporation, The. Controlled anionic polymerization of higher lactams. 3,427,289, 2-11-69, Cl. 260-78.
Warner, Robert H.: *See*—
Schpak, Fred; Breger, Joseph L.; and Warner, Robert H.,3,423,886.
Warner, Robert T.; and Christy, Robert R., to Non-Linear Systems, Inc. Bar-graph display instrument. 3,440,537, 4-22-69, Cl. 324-113.
Warner, Samuel Jacobs: *See*—
Warner, Samuel, 3,456,091.
Warner, Samuel, to Joyal Mfg., Corp. Machine for making wire terminals. 3,441,707, 4-29-69, Cl. 219-103.
Warner, Samuel, to Warner, Samuel Jacobs Williams, Harold Tooker, as trustees under a trust agreement dated June 29, 1960, for the Employees' Profit-Sharing Plan of Jayal Products, Inc. Machine for feeding, heading and welding lead wire to another electrical element. 3,456,091, 7-15-69, Cl. 219-103.
Warner, Walter J., to Hathorne, A. C., Company, The. Prefabricated roofing construction and method. 3,468,086, 9-23-69, Cl. 52-173.
Warner, Willard E.: *See*—
Exline, William C.; Kenworthy, Clarence S.; and Warner, Willard E.,3,442,260.
Warner, William D.: *See*—
McAnelly, John K.; and Warner, William D.,3,446,626.
Young, Harland H.; Warner, William D.; and McAnelly, John K.,3,442,764.
Warner, William W.: *See*—
Warner, John H., III; and Warner, William W.,3,484,845.
Warner-Lambert Pharmaceutical Company: *See*—
Babson, Arthur L., 3,466,306.
Baruch, Hans, 3,475,130.
Brechner, Stanley; Malakoff, Meyer; and Rieger, Martin M., 3,433,868.
Brown, Richard E.; and Meltzer, Robert I., 3,437,689.
Brown, Richard E.; and Meltzer, Robert I., 3,445,502.
Brown, Richard E.; and Meltzer, Robert I., 3,487,107.
D'Alo, Franco; and Masserini, Arnaldo, 3,429,883.
Emele, Jane F., 3,439,094.
Faustini, Albert J., 3,452,780.
Fraguada, Jose M.; and Le Beau, Robert W., 3,457,045.
Fusco, Raffaello; and Tenconi, Franco, 3,433,789.
Fusco, Raffaello; and Tenconi, Franco, 3,439,099.
Gardi, Rinaldo; and Castelli, Pier Paolo, 3,475,467.
Hansen, Holger V.; and Meltzer, Robert I., 3,452,025.
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert Israel, 3,466,288.
Hansen, Holger V.; Klutchko, Sylvester; and Meltzer, Robert I., 3,479,358.
Kissil, Donald; and Gercke, Ferdinand A., 3,474,763.
Koester, Charles J., 3,440,562.
Morshauser, Fred S.; Kalish, Samuel; and Biamonte, Alfred R., 3,479,429.
Pattison, Ian C., 3,483,248.
Polanyi, Michael L., 3,471,214.
Satzinger, Gerhard, 3,433,833.
Satzinger, Gerhard, 3,445,465.
Satzinger, Gerhard, 3,466,375.
Satzinger, Gerhard, 3,471,504.
Shavel, John, Jr.; and Bobowski, George, 3,445,518.
Shavel, John, Jr.; and Bobowski, George, 3,446,804.
Shavel, John, Jr.; and Morrison, Glenn Curtis, 3,452,023.
Shavel, John, Jr.; and Morrison, Glenn Curtis, 3,452,024.
Shavel, John, Jr.; and Bobowski, George, 3,452,048.
Shavel, John, Jr.; and Von Strandtmann, Maximilian, 3,487,086.
Vaughn, Eldon D., 3,466,551.
Zinnes, Harold; Shavel, John, Jr.; and Sternberg, Martin S., 3,479,436.
Warnick, Philip. Smudge collector. 3,458,178, 7-29-69, Cl. 261-17.
Warning, Paul-Friedrich, to Sennheiser Electronic, Firma. Pressure gradient microphone with two diaphragms. 3,459,902, 8-5-69, Cl. 179-121.
Warp, Harold, to Flex-O-Glass, Inc. Plastic mat with reinforced end. 3,452,497, 7-1-69, Cl. 52-177.
Warrell, Fred J., to Continental Aviation and Engineering Corporation. Heat exchanger. 3,450,199, 6-17-69, Cl. 165-159.
Warren Automatic Tool Company: *See*—
Dower, Ethell J., 3,470,971.
Dower, Ethell J., 3,470,972.
Dower, Ethell J., 3,479,001.
Warren, Brian, to Smith Kline & French Laboratories. Apparatus employed in thin-layer chromatography. 3,457,897, 7-29-69, Cl. 118-412.
Warren, Creighton S.; and Misthos, George E,, to SCM Corporation. Control circuit. 3,475,670, 10-28-69, Cl. 318-246.

Warren, Eugene. Tool position determining protractor device. 3,436,872, 48-69, Cl. 51-218.
Warren Fastener Corporation: *See—*
Meyer, Engelbert A., 3,438,664.
Meyer, Engelbert A., 3,445,979.
Meyer, Engelbert A., 3,455,528.
Meyer, Engelbert A., 3,456,550.
Meyer, Engelbert A., 3,471,109.
Meyer, Engelbert A., 3,473,283.
Meyer, Engelbert A., 3,473,284.
Meyer, Engelbert A., 3,473,773.
Meyer, Englebert A., 3,481,096.
Warren, Geoffrey A., to Fibreglass Limited. Size applicator. 3,485,210, 12-23-69, Cl. 118-420.
Warren, George; and Staples, Basil G., to Ritter Pfaudler Corporation. Method and apparatus for repairing glass coated articles. 3,440,707, 4-29-69, Cl. 29-401.
Warren, Henry Ray: *See—*
Floyd, Terence J.; and Warren, Henry Ray,3,481,214.
Warren, Henry Ray, to RCA Corporation. Wide band recording and reproducing system. 3,482,038, 12-2-69, Cl. 178-6.6
Warren, Jack K., to Minnesota Mining and Manufacturing Company. Electron beam recorder having sealing means. 3,449,759, 6-10-69, Cl. 346-110.
Warren, James A., to Magnetics, Inc. Phase control firing circuit. 3,456,133, 7-15-69, Cl. 307-305.
Warren, James W., Jr., to Ducommun Incorporated, mesne. Anisotropic mold liner for continuous casting of metals. 3,424,228, 1-28-69, Cl. 164-273.
Warren, Joel; Neal, Alan L.; and Rennels, David A., to Pfizer, Chas., & Co., Inc. Concentration and purification of viruses from particulate magnetic iron oxide-virus complexes. 3,470,067, 9-30-69, Cl. 195-1.5
Warren, John G., to Solartron Electronic Group Limited, The. Electrical signal function generators. 3,486,018, 12-23-69, Cl. 235-197.
Warren, John P.: *See—*
Miller, Gerald K.; Sauter, William D.; and Warren, John P.,3,457,544.
Warren, Joseph E., to Gulf Research & Development Company. Conduction heating of formations. 3,422,893, 1-21-69, Cl. 166-40.
Warren, Keith A.: *See—*
Bills, Daniel G.; Denison, Dean R.; and Warren, Keith A.,3,427,432.
Warren, Kenneth Alfred James; and Agar, William Oliver, to Marconi Company Limited, The. Pulsed doppler radar systems. 3,454,946, 7-8-69, Cl. 343-17.1
Warren, Lamar G., Jr. Method of and apparatus for dental treatment. 3,481,329, 12-2-69, Cl. 128-66.
Warren, Larry G.: *See—*
Benner, Paul B.; Beyers, Marvin E.; and Warren, Larry G.,3,423,129.
Warren, Larry Hartwell: *See—*
Britt, James Edward; Warren, Larry Hartwell; and Melville, John Ward,3,467,371.
Warren Petroleum Corporation: *See—*
Pivonka, Ralph C., 3,486,497.
Warren, Raymond W., to United States of America, Navy. Prime mover limit control. 3,432,144, 3-11-69, Cl. 253-1.
Warren, Raymond W., to United States of America, Army. Constant frequency fluid pulse system. 3,442,281, 5-6-69, Cl. 137-81.5
Warren, Raymond W., to United States of America, Army. Acceleration-sensitive fluid actuator. 3,444,814, 5-20-69, Cl. 102-81.
Warren, Raymond W., to United States of America, Army. Pure fluid amplifier as stall or shock sensor. 3,452,707, 7-1-69, Cl. 116-117.
Warren, Raymond W.; Campagnuolo, Carl J.; and Fine, Jonathan E., to United States of America, Army. Fluid velocimeter. 3,442,124, 5-6-69, Cl. 73-194.
Warren, Robert A., to Sierracin Corporation, The. Conductive panel. 3,469,015, 9-23-69, Cl. 174-35.
Warren, Robert A.; and Spira, Bernard, to McDonnell Douglas Corporation, mesne. Omni-directional roller. 3,435,938, 4-1-69, Cl. 193-37.
Warren, Robert A.: *See—*
Brenner Raymond P.; and Warren, Robert A.,3,460,792.
Warren, Robert M., Jr., to Buensod-Stacey Corporation. Regulator. 3,433,410, 3-18-69, Cl. 236-13.
Warren, Robert M., Jr., to Aeronca, Inc., mesne. Fluid control device. 3,473,559, 10-21-69, Cl. 137-514.
Warren, Robert M., Jr., to Buensod-Stacey Corporation. Air conditioning. 3,477,497, 11-11-69, Cl. 165-22.
Warren, Roy K., to Hanna Mining Company, The. Bore hole magnetometer with critical sensitivity adjustment. 3,453,531, 7-1-69, Cl. 324-8.
Warren, Roy R., to Union Carbide Corporation. Surface active compositions. 3,440,171, 4-22-69, Cl. 252-152.
Warren, Steven A.; and Zanck, Gerald. Near-point tachistoscope. 3,451,581, 6-24-69, Cl. 220-4.
Warren, Tom C., to United States of America, Navy, mesne. Variable thrust injector. 3,468,487, 9-23-69, Cl. 239-403.
Warren, William E., to Western Machinery Corporation. Glue applicator for panel patching machine. 3,431,888, 3-11-69, Cl. 118-238.
Warren, William H. Egg transferring device. 3,437,096, 4-8-69, Cl. 134-104.
Warrick, Edward C.; and McLay, William S., Jr., to Rockwell Manufacturing Company. Planing and jointing machine. 3,461,930, 8-19-69, Cl. 144-118.
Warrick, Edward C.; and Niehaus, Edward J., Jr., to Rockwell Manufacturing Company. Adjustable cam engaged clutch. 3,481,438, 12-2-69, Cl. 192-93.
Warrick, Frank G., to Sealed Power Corporation. Spacer-expander. 3,477,732, 11-11-69, Cl. 277-140.
Warrick, James E.: *See—*
Houston, David R.; Howes, Benjamin T.; Warrick, James E.; and Alexandrowicz, Alvin W.,3,477,306.
Warrick, Robert K. Dent distending and removing tool. 3,422,659, 1-21-69, Cl. 72-429.
Warriner, Earl W., Sr.: *See—*
Stafford, Robert L.; and Warriner, Earl W., Sr.,3,421,161.
Warrington, Henry G., to Vulcan Iron Works Inc. Pile driving hammer. 3,454,112, 7-8-69, Cl. 173-128.
Warrington, Henry G.; and Manning, George C., to Vulcan Iron Works Inc. Boring apparatus with valveless impactor. 3,444,937, 5-20-69, Cl. 175-92.
Warrix, John Tyler, to Wolverine Toy Company. Coin bank and method of sorting coins. 3,472,248, 10-14-69, Cl. 133-3.
Warsager, Rubin. Multicolor surface decoration and process for producing same. 3,463,651, 8-26-69, Cl. 117-3.3
Warsaw, Don K.; and Brandt, Carl E. Tire-repair plug. 3,426,826, 2-11-69, Cl. 152-370.
Warshaw, Abe; Negra, John S.; and Bernas, Arnold R., to Chemical Construction Corporation. Process and catalyst for production of methane-rich gas. 3,466,159, 9-9-69, Cl. 48-213.
Warshaw, Saul: *See—*
Loveland, Winton; and Warshaw, Saul,3,451,875.
Loveland, Winton; and Warshaw, Saul,3,461,020.
Loveland, Winton; and Warshaw, Saul,3,468,742.
Warson, Henry; and Reed, George Andrew, to Dunlop Company Limited, The. Acrylic polymer emulsions. 3,431,226, 3-4-69, Cl. 260-29.7
Warstat, Hans: *See—*
Dietrich, Rolf; Ulffers, Dirk; and Warstat, Hans,3,445,170.
Warszawski, Bernard: *See—*
Broniewski, Bodhan; and Warszawski, Bernard,3,467,024.
Warter, Peter J., Jr., to Bell Telephone Laboratories, Incorporated. Compensated quadratic electro-optic modulator. 3,443,857, 5-13-69, Cl. 350-150.
Warth, Alfred W.: *See—*
Warth, William C.; and Warth, Alfred W.,3,477,131.
Warth, William C.; and Warth, Alfred W. Position fixing instrument. 3,477,131, 11-11-69, Cl. 33-66.
Warthen, John L.: *See—*
Briggs, Warren S.; Stover, William A.; and Warthen, John L.,3,470,105.
Dobres, Robert M.; and Warthen, John L.,3,431,196.
Dobres, Robert M.; Parthasarathy, R.; and Warthen, John L.,3,423,455.
Warthen, William P.: *See—*
De Vore, Bainard M.; Fowler, James E.; and Warthen, William P.,3,439,391.
Wartman, Lloyd H.; and Roth, Clarence E., Jr., to Union Carbide Corporation. Ethylene-acrylic acid copolymers plasticized with adducts of alkylene oxides and amines. 3,464,949, 9-2-69, Cl. 260-32.6
Warwick Electonics Inc.: *See—*
Alexander, Gordon L., 3,446,090.
Warwick Electronics Inc.: *See—*
Anderson, Joseph J.; and Tucci, Morris L., 3,472,114.
Babcock, Leonard V., 3,452,303.
Brand, John R.; and Plunkett, Bradley J., 3,422,454.
Brand, John R.; and Plunkett, Bradley J., 3,446,904.
Brand, John R.; and Plunkett, Bradley J., 3,465,087.
Carlson, George R., 3,439,284.
De Cola, Rinaldo E., 3,467,835.
Dodds, Ralph L.; and Plunkett, Bradley J., 3,439,569.
Graf, David F., 3,428,746.
Graf, David F., 3,483,322.
Grindinger, Gerard R., 3,430,530.
Kuhl, Bernhard R.; and Morrall, Stephen H., 3,428,020.
Kuhl, Bernhard R.; and Larson, Donald H., 3,428,021.
Schreiner, Louis W., 3,452,152.
Tatter, Ernest O. P.; and Vazzano, Philip, 3,420,460.
Tatter, Ernest O. P.; and Vazzano, Philip, 3,452,992.
Tatter, Ernest O. P., 3,454,961.
Tatter, Ernest O. P.; and Vazzano, Philip, 3,462,158.
Vom Brack, Theodore F.; and Novak, Paul A., 3,462,112.
Wamboldt, Gary R., 3,471,972.

Warwick, James S.: *See—*
Shore, Donald L.; and Warwick, James S.,3,470,421.
Warwick, Peter S., to Bell Telephone Laboratories, Incorporated. Magnetic domain propagated word recognizer. 3,438,007, 4-8-69, Cl. 340-174.
Warwick, William A.: *See—*
Owen, Charles E.; Proudman, Antony; Taub, Daniel M.; and Warwick, William A.,3,432,830.
Warwicker, Peter Griggs; and Corneoot, Peter Frank, to Berger, Bryce, Limited. Liquid fuel injection pumps. 3,481,272, 12-2-69, Cl. 103-38.
Warzel, Fred M., to Phillips Petroleum Company. Production of soda ash from trona. 3,479,133, 11-18-69, Cl. 23-63.
Warzel, Fred M., to Phillips Petroleum Company. Production of dense soda ash from trona. 3,479,134, 11-18-69, Cl. 23-63.
Wasa, Toshiko: *See—*
Takai, Akira; Saikawa, Isamu; Maeda, Toyoo; Kodama, Yutaka; Matsubara, Yasumasa; Takamichi, Ikuko; and Wasa, Toshiko,3,455,913.
Wasag-Chemie Aktiengesellschaft: *See—*
Kraemer, Stefan; Seidl, Alois; Mayer, Richard; and Streibl, Ludwig, 3,473,904.
Leisinger, Karl-Friedrich; and Rudiger, Christian, 3,424,924.
Waschek, Arvid Gayle: *See—*
Stemmerman, Paul Edward; Waschek, Arvid Gayle; and Moon, Seaton,3,487,448.
Waschk, Fritz: *See—*
Wick, Richard; Waschk, Fritz; and Orthmann, Jurgen,3,431,053.
Waschulewski, Hans-Georg; Erdmann, Helmut; and Laimann, Gunther, to Losenhausen Maschinenbau Aktiengesellschaft. Vibratory rollers. 3,486,427, 12-30-69, Cl. 94-50.
Wasco, Anthony, Jr.: *See—*
Cashman, Robert W.; and Wasco, Anthony, Jr.,3,436,800.
Cushman, Robert; and Wasco, Anthony, Jr.,3,432,214.
Wasco, Joseph L., to Dow Chemical Company, The. 2,4,5-Trichloroimidazole and method of preparation. 3,435,050, 3-25-69, Cl. 260-309.
Wasco Laboratories, Inc.: *See—*
Wasserman, Kurt J., 3,453,254.
Wascon Systems, Incorporated: *See—*
Combs, William H.; Craig, Sam N.; and Barland, Lance C., 3,426,677.
Waseleski, Joseph W., Jr., to Texas Instruments, Incorporated. Apparatus for controlling the level of a liquid. 3,437,107, 4-8-69, Cl. 137-392.
Waseleski, Joseph W., Jr.; Buiting, Francis P.; and Kulwicki, Bernard M., to Texas Instruments, Incorporated. Relay with voltage compensation. 3,434,089, 3-18-69, Cl. 337-40.
Waseleski, Joseph W., Jr.: *See—*
Buiting, Francis P.; and Waseleski, Joseph W., Jr.,3,474,963.
McBride, Lyle E., Jr.; and Waseleski, Joseph W.,3,456,878.
Wasemann, William A., to Westinghouse Electric Corporation. Clothes washing machine. 3,475,928, 11-4-69, Cl. 68-23.2
Wasemann, William A., to Westinghouse Electric Corporation. Fastening means for deflector ring. 3,481,161, 12-2-69, Cl. 68-3.
Wash, Roy L.; and Davidson, Everett E. Sample washer. 3,420,372, 1-7-69, Cl. 209-269.
Washall, Thomas A., to Atlantic Richfield Company. Selective solvent separation of polychloroalkanes from monochloroalkanes. 3,427,358, 2-11-69, Cl. 260-652.
Washall, Thomas A., to Atlantic Richfield Company. Separation of water from a single alkanol by extractive distillation with ethylene glycol. 3,464,896, 9-2-69, Cl. 203-18.
Washall, Thomas A.: *See—*
Mameniskis, Walter A.; and Washall, Thomas A.,3,485,879.
Washbourn, Jack, to Westinghouse Air Brake Company, mesne. Fluid pressure brake control valve. 3,472,561, 10-14-69, Cl. 303-33.
Washbourn, Jack, to Westinghouse Air Brake Company, mesne. Fluid pressure brake control valve. 3,472,562, 10-14-69, Cl. 303-66.
Washbourn, Jack: *See—*
Simmons, Arthur W.; and Washbourn, Jack,3,425,753.
Simmons, Arthur W.; and Washbourn, Jack,3,447,563.
Simmons, Arthur W.; and Washbourn, Jack,3,459,227.
Washburn, Curtis Edward: *See—*
Washburn, Loren,3,448,848.
Washburn, Darl C., Jr.: *See—*
Pesavento, Joseph A.; and Washburn, Darl C., Jr.,3,460,278.
Washburn, Harry G., to Tee-Pak, Inc. Casing sizer and sizing process. 3,454,980, 7-15-69, Cl. 17-35.
Washburn, Loren, deceased0 (by Washburn, Curtis Edward; administrator), to Progressive Industries, Inc. Field conveyor for gathering harvested farm produce. 3,448,848, 6-10-69, Cl. 198-88.
Washburn, Robert Latham: *See—*
Bragaw, Chester Griswold, Jr.; and Washburn, Robert Latham,3,458,615.
Washburn, Robert M.; and Baldwin, Roger A., to American Potash & Chemical Corporation. Alkylene or arylene bis(organosilyl, germanyl or stannyl imidophosphoranes, arsanes or stibanes) and the preparation thereof. 3,445,492, 5-20-69, Cl. 260-429.
Washburn, Robert S. Screw presses. 3,472,159, 10-14-69, Cl. 100-117.
Washburn, William A.: *See—*
Buckminster, Lloyd A.; and Washburn, William A.,3,451,177.
Washer, Stone P., to Phillips Petroleum Company. Control system for fractional distillation columns. 3,434,934, 3-25-69, Cl. 202-154.
Washikita, Kenji: *See—*
Tsuruga, Masanori; Murakami, Shogo; Kondo, Katsutoshi; Akabane, Shunei; Washikita, Kenji; and Koshino, Tameo,3,478,101.
Washine Chemical Corporation: *See—*
Di Marco, Gabriel Robert; Hogan, John F., Jr.; Schulman, Hyman L.; and Strandskov, Frede B., 3,443,972.
Strandskov, Frede B.; and Schulman, Hyman L., 3,463,860.
Washington Chain of Spokane, Inc.: *See—*
Pfeffer, John W.; and Mc Kinney, Dorsey L., 3,467,155.
Washington, David L.: *See—*
Moore, Alvan A.; and Washington, David L.,3,460,704.
Washington Forge, Inc.: *See—*
Hain, Robert W.; and Warn, Richard A., Sr., 3,486,610.
Washington, George, Limited: *See—*
Salmons, Terence J., 3,439,358.
Washington Iron Works: *See—*
Thompson, James R., 3,436,056.
Thompson, James R., 3,467,260.
Washington Scientific industries, Inc.: *See—*
Anderson, Kermit V., 3,479,116.
Washita, Hiro, to Marutai Doboku Company Limited. Pile driver. 3,420,320, 1-7-69, Cl. 175-161.
Washizawa, Yoshikazu; and Matsuzawa, Hiroto, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Steering apparatus for an endless track vehicle. 3,464,510, 9-2-69, Cl. 180-5.
Washizuka, Isamu: *See—*
Asada, Atsushi; and Washizuka, Isamu,3,469,085.
Asada, Atsushi; and Washizuka, Isamu,3,486,015.
Washizuka, Isamu; and Hanahara, Hitoshi, to Hayakawa Denki Kogyo Kabushiki Kaisha. Flip-flop circuit. 3,483,400, 12-9-69, Cl. 307-279.
Wasil, Edwin E.: *See—*
Dixon, Richard T.; and Wasil, Edwin E.,3,439,738.
Wasilewski, Joseph C., to American Instrument Co., Inc. Automatic analytical apparatus. 3,432,271, 3-11-69, Cl. 23-253.
Wasilewski, Stanley: *See—*
Loeb, Sidney; Wasilewski, Stanley; Selover, Edward; and Balla, Andre,3,446,359.
Wasko, George J. Wire stripping tool. 3,447,180, 6-3-69, Cl. 15-93.
Wasko, George, to Textron Inc., mesne. Method and apparatus for gapping slide fastener chain. 3,456,328, 7-22-69, Cl. 29-408.
Wasley, William L.: *See—*
Fong, Willie; Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A.,3,477,803.
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A., to United States of America, Agriculture. Including finishing agents in at least one of two mutually immiscible solutions containing coreactants and serially applying said solutions to fibrous materials. 3,429,650, 2-25-69, Cl. 8-115.6
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A., to United States of America, Agriculture. Shrinkproofing of wool. 3,466,136, 9-9-69, Cl. 8-127.5
Pittman, Allan G.; and Wasley, William L.,3,465,050.
Pittman, Allen G.; and Wasley, William L.,3,420,793.
Pittman, Allen G.; and Wasley, William L.,3,422,131.
Pittman, Allen G.; and Wasley, William L.,3,424,785.
Pittman, Allen G.; and Wasley, William L.,3,437,692.
Pittman, Allen G.; and Wasley, William L.,3,441,431.
Pittman, Allen G.; and Wasley, William L.,3,465,045.
Pittman, Allen G.; and Wasley, William L.,3,479,214.
Pittman, Allen G.; and Wasley, William L.,3,480,605.
Pittman, Allen G.; and Wasley, William L.,3,480,664.
Pittman, Allen G.; and Wasley, William L.,3,484,470.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L.,3,433,575.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L.,3,440,002.
Wasser, Robert E., to Servonic Instruments, Inc. Method of making molded ceramic articles. 3,436,451, 4-1-69, Cl. 264-272.
Wasserman, Alvin. Method of processing metals for use in alloying furnaces. 3,484,289, 12-16-69, Cl. 134-26.
Wasserman, David: *See—*
Meigs, Frederick M.; Micchelli, Albert L.; and Wasserman, David,3,475,386.
Wasserman, Kurt J. Reaction products of stabilized rosin amine and epoxy resins. 3,451,959, 6-24-69, Cl. 260-24.
Wasserman, Kurt J., to Wasco Laboratories, Inc. Reaction products of stabilized rosin amine and organic acid phosphate esters. 3,453,254, 7-1-69, Cl. 260-100.
Wasserman, Norman: *See—*
Dore, Arthur J.; Herndon, John A.; and Wasserman, Norman,3,447,036.

Wasserman, Ralph: *See*—
Simon, Ralph E.; Williams, Brown F.; and Wasserman, Ralph,3,478,213.
Wasserman, Saul; Salzman, Robert; and O'Keefe, Walter C., to United States of America, Army. Self-stabilizing rod penetrators. 3,464,356, 9-2-69, Cl. 102-67.
Wasserman, Seymour: *See*—
Wasserman, Seymour, 3,470,572.
Wasserman, Seymour, to Wasserman, Seymour, and King, Leonard H. Tool for applying a protective foil to the individual rods of a barbecue grill. 3,470,572, 10-7-69, Cl. 7-14.1
Wassermann, Carl I., to Datamark, Inc. Linear type font oscillating means for high speed printers and the like. 3,476,044, 11-4-69, Cl. 101-93.
Wassill, Terry. Spring trip release for a chisel plow. 3,431,982, 3-11-69, Cl. 172-710.
Wasson, Burton Kendall; and Parker, John Mulvin, to Frosst, Charles E., & Co. Substituted 2,7-dioxaspiro(4.4)nonanes. 3,450,719, 6-17-69, Cl. 260-347.7
Wastie, Arthur E., to Drake & Townsend, Incorporated. Gas-air supply system. 3,459,519, 8-5-69, Cl. 48-191.
Wasylchak, Russell W.: *See*—
Hairabedian, Barouyr Z.; and Wasylchak, Russell W.,3,459,609.
Waszak, Lawrence: *See*—
Redmond, Peter M.; and Waszak, Lawrence,3,447,033.
Watabe, Kazuyuki: *See*—
Takeda, Saburo; Higashi, Hiromi; Tarao, Ryokichi; Mizuno, Mikio; Watabe, Kazuyuki; Saito, Michiaki; Namikawa, Shigeo; and Tsunoda, Takao,3,477,999.
Wataha, Everet. Extensible and retractable batter adjustment of pile hammer leads. 3,463,245, 8-26-69, Cl. 173-43.
Watai, Kunlyoshi: *See*—
Shimizu, Shotaro; and Watai, Kuniyoshi,3,444,012.
Watanabe, Akinori; and Ando, Takeki, to Hitachi, Ltd. Speed control system for directly coupled induction motors of different synchronous speed. 3,460,014, 8-5-69, Cl. 318-46.
Watanabe, Akio: *See*—
Kan, Masao; Hyodo, Hiroshi; Watanabe, Akio; and Enami, Shigekazu,3,432,327.
Watanabe, Akio, to Matsushita Electric Industrial Co., Ltd. Storage battery. 3,471,339, 10-7-69, Cl. 136-170.
Watanabe, David J. Method for producing a solid particulate material. 3,468,986, 9-23-69, Cl. 264-9.
Watanabe, Eiji: *See*—
Wada, Yoshio; Watanabe, Eiji; and Suzuki, Takao,3,469,093.
Yamamoto, Makoto; Fujisawa, Minoru; and Watanabe, Eiji,3,441,894.
Watanabe, Haruo, to Showa Sangyo Kabushiki Kaisha. Process for manufacture of defatted soybeans. 3,454,404, 7-8-69, Cl. 99-98.
Watanabe, Hideo; and Buzza, Edmund E., to Beckman Instruments, Inc. Method of filling an electrode tube with liquid. 3,444,067, 5-13-69, Cl. 204-195.
Watanabe, Hideo; and Buzza, Edmund E., to Beckman Instruments, Inc. Method of providing for liquid junction. 3,455,793, 7-15-69, Cl. 204-1.
Watanabe, Hideo; and Harman, John N., III, to Beckman Instruments, Inc. Method of forming reference electrodes. 3,438,875, 4-15-69, Cl. 204-56.
Watanabe, Hiroshi; Okuda, Tomoya; and Takamura, Yoshio, to Tokyo Shibaura Electric Co., Ltd. System for operating pickup tubes. 3,428,849, 2-18-69, Cl. 315-11.
Watanabe, Hiroshi; Ozaki, Masami; and Hara, Junji, to Toyo Koatsu Industries, Incorporated. Resin composition of a vinyl chloride polymer blended with an ethylene-vinyl chloride copolymer. 3,435,098, 3-25-69, Cl. 260-897.
Watanabe, Hisao: *See*—
Matsumoto, Ryoso; and Watanabe, Hisao,3,430,492.
Watanabe, Ichiro: *See*—
Kitaoka, Atsushi; Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,436,369.
Kitaoka, Atsushi; Murayama, Keisuke; Moiura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro,3,448,074.
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide,3,437,633.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,233.
Murayama, Keisuke; Morimura, Syoji; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; Kitaoka, Atsushi; Suzuki, Isamu; and Ohmura, Jukichi,3,474,068.
Murayama, Keisuke; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; Watanabe, Ichiro; and Kitaoka, Atsushi,3,431,232.
Watanabe, Isaburo; Yoshioka, Haruo; Sanga, Seiji; Egashira, Shohachi; and Ohki, Taketo, to Japan Gasoline Co., Ltd., and Nikki Chemical Company, Limited. Steam reforming of hydrocarbons. 3,429,680, 2-25-69, Cl. 48-214.
Watanabe, Itaru: *See*—
Kominami, Naoya; Nakajima, Hitoshi; Watanabe, Itaru; Kimura, Takeo; and Sakurai, Tokio,3,465,028.
Watanabe, Jun; Arakawa, Soji; and Fukuoka, Tokuji, to Nippon Rayon Co., Ltd. Process for improving the adhesion of fibrous materials to rubber. 3,443,986, 5-13-69, Cl. 117-138.8
Watanabe, Jun; Hosoi Susumu; Izawa, Hiroaki; Sawai, Tadashi; and Kawakami, Koichiro, to Matsushita Electric Industrial Co., Ltd. Method for manufacturing a dry cell. 3,428,494, 2-18-69, Cl. 136-102.
Watanabe, Jun: *See*—
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa,3,440,105.
Watanabe, Kazunari: *See*—
Matsumoto, Masato; Samejima, Yukihide; and Watanabe, Kazunari,3,426,162.
Watanabe, Kenkichi: *See*—
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,454,017.
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkichi; Kokubo, Eiichi; and Osako, Kyoichi,3,469,365.
Watanabe, Kenkihi: *See*—
Uchida, Isamu; Miyayama, Shigeru; Watanabe, Kenkihi; and Osako, Kyoichi,3,476,125.
Watanabe, Masamoto: *See*—
Kawabata, Yasuro; Maekawa, Haruki; Watanabe, Masamoto; and Tsuda, Yoshizo,3,485,804.
Watanabe, Morio. Apparatus for hydraulically flexible webs while passing through a liquid bath. 3,444,585, 5-20-69, Cl. 18-1.
Watanabe, Risaburo: *See*—
Kaibara, Nobuhiro; Sawa, Yoshimi; Ichikawa, Takeo; Watanabe, Risaburo; and Igarashi, Osamu,3,485,223.
Watanabe, Seizo. High strength alloy of the Cu-Al-Be series. 3,459,544, 8-5-69, Cl. 75-162.
Watanabe, Shigetoshi: *See*—
Nakamura, Katsuro; and Watanabe, Shigetoshi,3,478,337.
Watanabe, Shiro; and Misaki, Susumu, to Daikin Kogyo Co., Ltd. Thiadiazine ring containing ethylene dithiocarbamate compounds. 3,435,032, 3-25-69, Cl. 260-242.
Watanabe, Shiro; and Tomoda, Toshiyuki, to Daikin Kogyo Kabushiki Kaisha. Phenylalkylmonofluoroacetamides. 3,455,982, 7-15-69, Cl. 260-454.
Watanabe, Taiichiro: *See*—
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; Watanabe, Taiichiro; and Sato, Yoshio,3,467,665.
Sunagawa, Genshun; Soma, Nobuo; Watanabe, Taiichiro; and Sato, Yoshio,3,435,071.
Watanabe, Takahide: *See*—
Suzuki, Takashi; and Watanabe, Takahide,3,435,302.
Watanabe, Takaji: *See*—
Morita, Yoshio; Watanabe, Takaji; Suzuki, Hisao; and Kawamura, Junji,3,459,573.
Watanabe, Takeharu: *See*—
Nakakubo, Isojiro; and Watanabe, Takeharu,3,461,543.
Watanabe, Teiko: *See*—
Noyori, Gentaro; Kurokawa, Hidemoto; and Watanabe, Teiko,3,450,751.
Watanabe, Tomoyoshi; Hishida, Yukio; and Hirata, Takashi, to Brother Kogyo Kabushiki Kaisha. Type bar assembly for typewriters. 3,432,018, 3-11-69, Cl. 197-36.
Watanabe, Toru: *See*—
Yoda, Renpei; and Watanabe, Toru,3,486,887.
Watanabe, Toshio; and Ukita, Shigetsugu. Arc-suppressing circuit for switching devices in alternating current circuit. 3,431,466, 3-4-69, Cl. 317-11.
Watanabe, Toshiyuki: *See*—
Asada, Chiaki; and Watanabe, Toshiyuki,3,454,432.
Watanabe, Tsutomu: *See*—
Okada, Yoichi; Watanabe, Tsutomu; Hirai, Koji; and Fujii, Kazutoshi,3,484,351.
Watanabe, Yasuo; Arawaka, Tsukasa; and Iwasaki, Tomio. Method for producing oryzanol. 3,470,150, 9-30-69, Cl. 260-236.5
Watanabe, Yoshiro. Method and means for joining H-form structural columns and beams. 3,442,542, 5-6-69, Cl. 287-189.35
Watanabe, Yoshiyuki: *See*—
Fukuta, Kenji; and Watanabe, Yoshiyuki,3,440,811.
Watanabe, Yoshiyuki, to Kabushiki Kaisha Sankei Seisakusho. Apparatus for supporting a capstan of a tape recorder. 3,439,558, 4-22-69, Cl. 74-573.
Watanabe, Yoshiyuki; and Kinoshita, Koichi, to Matsuragawa Electric Company, Ltd. Electrophotography. 3,457,070, 7-22-69, Cl. 96-1.
Watanabe, Yutaka, to Dai-Ichi Kogyo Seiyaku Co., Ltd. Tin electroplating electrolytic. 3,483,099, 12-9-69, Cl. 204-54.
Watanabe, Yutaka: *See*—
Shohji, Senji; Kobayashi, Kazuo; Kuwata, Masanobu; Watanabe, Yutaka; and Hirai, Tadamasa,3,474,301.
Watanuki, Shigeo: *See*—
Kano, Saburo; Yamada, Yoshio; and Watanuki, Shigeo,3,429,675.

Watarai, Syo: *See—*
Nishio, Fumihiko; Nishio, Daijiro; Watarai, Syo; Hayakawa, Yoshihide; Kato, Kirotetu; and Udea, Hirozo,3,445,231.
Watarai, Syu: *See—*
Nakajima, Yosuke; Nishio, Daijiro; and Watarai, Syu,3,429,707.
Watase, Fumio, to Tohoku Oki Electric Company. Crystal-controlled grounded emitter oscillator. 3,462,710, 8-19-69, Cl. 331-116.
Watatani, Mitsuo: *See—*
Sunagawa, Genshun; Soma, Nobuo; Nakazawa, Junichi; and Watatani, Mitsuo,3,461,131.
Water Pollution Control Corp.: *See—*
Thayer, Paul M., 3,424,443.
Water Research Association, The: *See—*
Powell, Peter, 3,459,036.
Waterbury Foundry Company, The: *See—*
Evans, Philip S., 3rd, 3,455,059.
Waterbury, Nelson J., 1/2 to Du Pont, Nicholas R. Self-electric powered vehicle. 3,444,946, 5-20-69, Cl. 180-65.
Waterfield, Charles Jeffrey: *See—*
Waller, Peter John; and Waterfield, Charles Jeffrey,3,460,161.
Waterhouse, Bruce L.; Jernt, Fred M.; and Mallory, Edwin E., to National-Standard Company. Printing plate assembly. 3,468,253, 9-23-69, Cl. 101-395.
Waterman, Alan P.: *See—*
Cook, Edward J.; and Waterman, Alan P.,3,474,351.
Waterman, Betty Jo: *See—*
Waterman, Willis D.,3,431,989.
Waterman, Dale G., to Watfo Corporation. Solar clock. 3,486,234, 12-30-69, Cl. 33-62.
Waterman, Frederick W., III., to Coors Porcelain Company. Knife sharpener. 3,420,123, 1-7-69, Cl. 76-84.
Waterman, Gary L.; and Woodmansee, Wayne E., to Boeing Company, The. Nondestructive testing method using liquid crystals. 3,439,525, 4-22-69, Cl. 73-15.4
Waterman, Herbert C., to Motorola, Inc. Page printing device with marking material bearing web between scanning styli and record medium. 3,427,633, 2-11-69, Cl. 346-74.
Waterman, Herrick: *See—*
Fuller, Ralph A.; and Snodgrass, Earl D., 3,475,877.
Fuller, Ralph A.; and Snodgrass, Earl D., 3,476,023.
Waterman, Jacques A.; and Selman, Jan, to Shell Oil COmpany. High impact polyvinyl halides. 3,465,067, 9-2-69, Cl. 260-890.
Waterman, Jacques A.; and Selman, Jan, to Shell Oil Company. High impact polyvinyl halide compositions. 3,483,275, 12-9-69, Cl. 260-890.
Waterman, Jacques A.: *See—*
La Heij, Gerardus E.; and Waterman, Jacques A.,3,424,705.
La Heij, Gerardus E.; Waterman, Jacques A.; and Smout, Adrianus D.,3,485,895.
Waterman, Michael W.: *See—*
Sealey, William C.; and Waterman, Michael W.,3,466,582.
Waterman, Michael W., to Allis-Chalmers Manufacturing Company. Electrical transformer having leakage flux shield. 3,464,041, 8-26-69, Cl. 336-5.
Waterman, Raymond R.: *See—*
Corrigall, James Stephen; Waterman, Raymond R.; and Deal, Kenneth M.,3,424,633.
Deal, Kenneth M.; and Waterman, Raymond R.,3,432,449.
Waterman, William John, to Vandewell Products Limited. Electrodeposition of lead and polytetrafluoro- ethylene. 3,434,942, 3-25-69, Cl. 204-38.
Waterman, Willis D., deceased0 (by Waterman, Betty Jo; administratrix). Planetary excavator. 3,431,989, 3-11-69, Cl. 175-95.
Waterous Company: *See—*
Evans, Louis B., 3,438,330.
Evans, Louis B.; and Berglund, Harold A., 3,470,822.
Waters, Barrett Bradford, to Hobart Manufacturing Company, The. Apparatus for cutting, mixing and grinding materials. 3,461,934, 8-19-69, Cl. 146-79.
Waters, Dean A.: *See—*
Gibson, Ronald F.; Nunley, Clifford E.; and Waters, Dean A.,3,430,849.
Waters, Geoffrey Sherwood: *See—*
Brown, Michael Richard; and Waters, Geoffrey Sherwood,3,474,248.
Waters, James A., Jr.: *See—*
Boenig, Herman V.; and Waters, James A., Jr.,3,464,884.
Waters, John Robert: *See—*
Richardson, Donald Arthur; and Waters, John Robert,3,466,985.
Waters, Kenneth H.; and Heath, Billy J., to Continental Oil Company. Digitally controlled vibrational seismic prospecting. 3,440,599, 4-22-69, Cl. 340-15.5
Waters, Paul F.; and Muraro, Leo J., to Grace, W. R., & Co. Process for producing fibrids by violent agitation. 3,431,242, 3-4-69, Cl. 260-67.
Waters, Robert F., to Standard Oil Company, (Indiana). Process for preparing an improved platinum electrode. 3,429,750, 2-25-69, Cl. 136-120.
Waters, Robert F.; and Cook, Hurley D., to Standard Oil Company (Indiana). Electrodes having an intimate mixture of platinum and a second metal. 3,468,717, 9-23-69, Cl. 136-120.
Waters, Robert L.: *See—*
Morris, Fred J.; Roberts, George F.; and Waters, Robert L.,3,461,387.
Waters, Ronald F.: *See—*
Porter, Joe A.; and Waters, Ronald F.,3,434,953.
Waters, Ronald R.: *See—*
Porter, Joe A.; and Waters, Ronald R.,3,445,369.
Waters, Wilfred F., Jr. Adaptive mechanism for jig saws. 3,481,028, 12-2-69, Cl. 29-560.
Waters, William A. Power driven dental cleaner. 3,421,524, 1-14-69, Cl. 132-92.
Waters, William E.: *See—*
Schrager, Hubert I.; and Waters, William E.,3,475,643.
Waters, William M. Amusement device for simulating a natural geyser. 3,484,045, 12-16-69, Cl. 239-22.
Waterworth, Thomas Hugall: *See—*
Gell, Philip Anthony Maunsell; and Waterworth, Thomas Hugall,3,440,321.
Watfo Corporation: *See—*
Waterman, Dale G., 3,486,234.
Watkin, David Anthony; Coode, Edward John; and Austen, Cecil John, to British Scientific Instrument Research Association. Apparatus for sampling and measuring physical parameters of objects. 3,435,685, 4-1-69, Cl. 73-432.
Watkin, David Anthony; Noe, Edwin Henry; and Wade, Peter, to British Scientific Instrument Research asociation. Apparatus for controlling the thickness of sheet material. 3,476,058, 11-4-69, Cl. 107-12.
Watkin, Kenneth: *See—*
Gibbons, William Frederick; and Watkin, Kenneth,3,471,630.
Watkins, Bruce J., to Regan Forge & Engineering Co. Marine conductor coupling. 3,445,126, 5-20-69, Cl. 285-85.
Watkins, Bruce J., to Regan Forge & Engineering Co. Latching mechanism. 3,452,815, 7-1-69, Cl. 166-0.5
Watkins, Bruce J., to Regan Forge & Engineering Co. Circulating casing hanger and running tool apparatus. 3,460,615, 8-12-69, Cl. 166-87.
Watkins, Bruce J., to Regan Forge & Engineering Co. Double tapered guidance method. 3,485,051, 12-23-69, Cl. 61-46.5
Watkins, Cecil H.: *See—*
Murphy, James A.; Watkins, Cecil H.; Dewhurst, Ernest James; and Engel, Carl,3,473,694.
Watkins, Charles H., to Universal Oil Products Company. Hydrocarbon separation process. 3,455,814, 7-15-69, Cl. 208-100.
Watkins, Charles W., to Singer Company, The. Tufting mechanism, method, stitches and article. 3,421,929, 1-14-69, Cl. 117-79.
Watkins, David Vaughan. Vibration isolation system. 3,448,951, 6-10-69, Cl. 248-18.
Watkins, Fred E., to Camco Incorporated. Mechanically actuated well lock setting apparatus. 3,446,281, 5-27-69, Cl. 166-214.
Watkins, Fred E., to Camco, Incorporated. Flow control valve. 3,450,206, 6-17-69, Cl. 166-224.
Watkins, Fred E., to Camco, Incorporated. Flow control valve. 3,474,861, 10-28-69, Cl. 166-224.
Watkins, Harley E., to Lipoma Electronics. Method of and apparatus for the electrostatic application of solid particles to food products. 3,457,080, 7-22-69, Cl. 99-1.
Watkins, Harley E., to Lipoma Electronics. Method of and apparatus for the electrostatic application of solid particles to articles. 3,468,691, 9-23-69, Cl. 117-17.
Watkins, Harry J., to Langston Company, The. Paperboard scoring device. 3,443,489, 5-13-69, Cl. 93-58.1
Watkins, John A.; and Lang, Elliot R., to United-Carr Incorporated, mesne. Electromagnetic indicator wheel responsive to coded electrical signals having positioning coils energized in pairs. 3,441,927, 4-29-69, Cl. 340-378.
Watkins, Laverne L. Family drinking glass identifying support. 3,478,457, 11-18-69, Cl. 40-324.
Watkins, Linwood C., Jr., to General Electric Company. Polar telegraphy receive current loop with solid- state switching bridge. 3,458,727, 7-29-69, Cl. 307-255.
Watkins, Lloyd D. H. Foot restraining device. 3,482,566, 12-9-69, Cl. 128-133.
Watkins, Lucius D., to Outboard Marine Corporation. Engine mounted on a gimbal-like frame. 3,452,704, 7-1-69, Cl. 115-41.
Watkins Manufacturing Company: *See—*
Shafer, Donald S., 3,453,912.
Watkins, Robert V.; and Farrington, Wayne A., to Bendix Corporation, The. Chrome alloys. 3,466,155, 9-9-69, Cl. 29-182.5
Watkins, Roland Howard Weir; and Williamson, Henry John, to British Insulated Callender's Cables Limited. Electric cable installations. 3,452,813, 7-1-69, Cl. 165-120.
Watkins, William H., to Controls Company of America. Lead assembly. 3,441,759, 4-29-69, Cl. 310-71.
Watling, Norman Derick: *See—*
Noronha, Leonardo Gastao; and Watling, Norman Derick,3,443,078.

Watlington, Francis W., to United States of America, Navy, mesne. Isolator for towed hydrophone. 3,448,432, 6-3-69, Cl. 340-5.
Watlow Electric Manufacturing Company: *See—*
Desloge, George B., 3,475,597.
Watrous, Donald Leland; and Harnden, John D., Jr., to General Electric Company. Electronic temperature regulation system using solid state devices and point contact sensors. 3,464,225, 9-2-69, Cl. 62-156.
Watrous, Donald L., to General Electric Company. Zero crossing synchronous switching circuits for power semiconductors supplying non-unity power factor loads. 3,486,042, 12-23-69, Cl. 307-252.
Watrous, Donald L.; and Harnden, John D., Jr., to General Electric Company. Electronic temperature regulation system using solid state devices and point contact sensors. 3,487,345, 12-30-69, Cl. 335-146.
Watsco, Inc.: *See—*
Langstroth, Hall, 3,469,892.
Wagner, William, 3,428,075.
Watson, Albert T.: *See—*
Claybaugh, Billy E.; Griffin, John R.; and Watson, Albert T.,3,472,829.
Watson, Alexander, to United Kingdom of Great Britain and Northern Ireland, Minister of Public Building and Works in Her Britannic Majesty's Government of the. Methods of cracking structures and apparatus for cracking structures. 3,430,021, 2-25-69, Cl. 219-10.55
Watson, Benjamin W.: *See—*
Hyde, Geoffrey; and Watson, Benjamin W.,3,460,070.
Watson, Cecil E.: *See—*
Thomas, Owen H.; and Watson, Cecil E.,3,444,940.
Watson, Chelsea, 1/2 to Glaser, Nathan T. Shower head mixing arrangement. 3,446,438, 5-27-69, Cl. 239-312.
Watson, Cornelius B., Jr. Container-dispenser with integral pump. 3,451,597, 6-24-69, Cl. 222-207.
Watson, David D.: *See—*
Brown, Lloyd H.; and Watson, David D.,3,448,069.
Watson, David Harris: *See—*
Crook, Leonard Robert; Jansen, Alexander Bertus Arnold; Spencer, Kenneth Eric Vincent; and Watson, David Harris,3,457,272.
Watson, Donald W.: *See—*
Rosenberg, Roger L.; Watson, Donald W.; and Zielinski, Robert D.,3,437,740.
Watson, Duane C.: *See—*
Mutter, Walter F.; and Watson, Duane C.,3,479,880.
Watson, Ellwood R.; Rowley, Gene V.; and Wunderlich, Charles R., to Aerojet-General Corporation. Method and apparatus for continuous fabrication of desalination membrane. 3,432,585, 3-11-69, Cl. 264-49.
Watson, Frederick D.; and Mayse, Weldon D., to Petrolite Corporation. Emulsion treatment. 3,458,429, 7-29-69, Cl. 204-302.
Watson, Frederick R., to Eastman Kodak Company. Sanitary valve. 3,451,652, 6-24-69, Cl. 251-192.
Watson, Gene D.: *See—*
Kuhn, Lee H., 3,470,888.
Watson, George A., to Celanese Corporation. Continuous filamentary cushioning material. 3,423,795, 1-28-69, Cl. 19-66.
Watson, George A., to Celanese Corporation. Process for making paperless cigarette filter. 3,470,008, 9-30-69, Cl. 117-4.
Watson, George A.; Williams, James A.; and Godwin, Joseph R., to Celanese Corporation. Converting crimped filamentary material to continuous elongated body. 3,466,861, 9-16-69, Cl. 57-2.
Watson, George A.: *See—*
Gray, Jack; and Watson, George A.,3,439,394.
Watson, George Robert; and Matchen, Ben, to Norton Company. High temperature tunnel kiln for production of crystalline refractory and abrasive materials. 3,429,974, 2-25-69, Cl. 13-20.
Watson, Guido, to Westinghouse Electric Corporation. Regulated power supply having a tapped line trans- former for providing a plurality of DC voltage levels. 3,470,452, 9-30-69, Cl. 321-18.
Watson, Henry F.: *See—*
Chinn, George M.; Schnatter, William P.; and Watson, Henry F.,3,431,820.
Hitchcock, Keith Norman; Thomas, Geoffrey Bernard; and Watson, Henry,3,447,320.
Watson, Ian A. Control of aircraft. 3,463,422, 8-26-69, Cl. 244-77.
Watson, Ian Alexander: *See—*
Colwell, Arthur John; Watson, Ian Alexander; and Penney, John Harper Malcolm,3,425,649.
Watson, Jack S.: *See—*
McNeese, Leonard E.; Watson, Jack S.; and Whatley, Marvin E.,3,472,633.
Watson, James P., to RCA Corporation. Electromagnetic clutch having eccentrically mounted poles. 3,451,516, 6-24-69, Cl. 192-84.
Watson, James S.: *See—*
Watson, James S.; and Clark, Keith, 3,447,892.
Watson, James S.; and Clark, Keith, to Watson, James S., mesne. Sterilizer. 3,447,892, 6-3-69, Cl. 21-83.
Watson, James W., to SCM Corporation, mesne. Process for improving the adhesion of paint to wheel-abraded wood surfaces. 3,450,554, 6-17-69, Cl. 117-57.
Watson, John D., Sr.; Mod, William A.; and Teumac, Fred N., to Dow Chemical Company, The. Extraction process for Ni, Cu, Cr and Co. 3,475,163, 10-28-69, Cl. 75-101.
Watson, John D., Sr.: *See—*
Olstowski, Franciszek; and Watson, John D., Sr.,3,444,276.
Watson, John D., to Westinghouse Electric Corporation. Off-delay apparatus. 3,457,433, 7-22-69, Cl. 307-141.
Rinard, George A.; and Watson, John D.,3,421,053.
Watson, John T.: *See—*
Miller, Joseph F. G.; and Watson, John T.,3,463,070.
Watson, John V. Kelly drive means. 3,433,033, 3-18-69, Cl. 64-23.7
Watson, John V., to Watson Manufacturing Company. Multiline swivel and mounting system. 3,477,746, 11-11-69, Cl. 285-119.
Watson, John W., 50% to Kennemore, Paul H. Yarn severing device on a spinning machine stop motion. 3,452,531, 7-1-69, Cl. 57-86.
Watson, Kenneth William. Adjustable hinge device. 3,483,586, 12-16-69, Cl. 16-131.
Watson Manasty and Company Limited: *See—*
Collis, William George, 3,463,583.
Watson Manufacturing Company: *See—*
Watson, John V., 3,477,746.
Watson Manufacturing Company, Inc.: *See—*
Moore, George E., 3,433,548.
Watson Michael Ernest Hall, to Lucas, Joseph, (Industries) Limited. Brazing alloys. 3,440,039, 4-22-69, Cl. 75-134.
Watson, Norman Leonard, to Imperial Chemical Industries Limited. Chlorinated polymers. 3,464,966, 9-2-69, Cl. 260-94.7
Watson, Olin L.; and Titus, Charles W., to Watson Seafood & Poultry Co., Inc. Plant sanitizing system. 3,481,355, 12-2-69, Cl. 137-93.
Watson, Peter M. F., to Gillette Company, The. Machining of small bore metal tubing. 3,448,548, 6-10-69, Cl. 51-281.
Watson, Ralph M. Way for axial flow impeller. 3,477,382, 11-11-69, Cl. 103-89.
Watson, Ralph Wesley. Manual edger. 3,474,868, 10-28-69, Cl. 172-13.
Watson, Robert D.; and Russell, Norman Hall, to Atomic Energy of Canada Limited. Wear resistant member. 3,472,704, 10-14-69, Cl. 148-3.
Watson, Robert E., to Swedish Crucible Steel Company. One-piece single-axis flexing hinge for toilet seats. 3,447,169, 6-3-69, Cl. 4-240.
Watson, Robert E., to Swedish Crucible Steel Company. Self-sustaining hinged toilet seat installation. 3,474,470, 10-28-69, Cl. 4-240.
Watson, Robert L. Clamping means for pipes and fittings. 3,467,295, 9-16-69, Cl. 228-49.
Watson, Roger W.: *See—*
Traise, Thornton P.; Little, Randel Q.; and Watson, Roger W.,3,442,808.
Watson Seafood & Poultry Co., Inc.: *See—*
Watson, Olin L.; and Titus, Charles W., 3,481,355.
Watson, Stanley A.; and Stewart, Charles W., to Corn Products Company. Corn degermination process. 3,474,722, 10-28-69, Cl. 99-80.
Watson, Talmage E. Portable shampoo assembly. 3,449,771, 6-17-69, Cl. 4-159.
Watson, W., & Sons, Limited: *See—*
Hall, Kenneth Frank; and Chambers, George, 3,428,387.
Watson, Wayne C.: *See—*
Schweiker, Malcolm A.; and Watson, Wayne C.,3,463,695.
Watson, William F., to Bendix Corporation, The. Method of manufacturing a tape for providing coded electrical signals. 3,457,641, 7-29-69, Cl. 29-625.
Watson, William George, to Parsons, C. A., & Company Limited. Speed governing systems and control devices therefor. 3,421,531, 1-14-69, Cl. 137-36.
Watson, William George, to Parsons, C. A. & Company Limited. Speed governing systems for steam turbines. 3,427,464, 2-11-69, Cl. 290-40.
Watson, William Keith Ross; and Risely, Richard E., to Astrodata, Inc. Musical instrument. 3,456,062, 7-15-69, Cl. 84-1.01
Watson, William, to Singer Company, The. Sewing machine handwheel. 3,469,471, 9-30-69, Cl. 74-552.
Watt, Gordon J., to Sperry Canada Limited. Apparatus for maintaining positional stability between a tool member and a workpiece. 3,469,475, 9-30-69, Cl. 77-4.
Watt, John C.: *See—*
Bruce, Robert S.; and Watt, John C.,3,438,409.
Watt, Peter Ridgway, to Vitamins Limited. Liquid-liquid extraction. 3,460,914, 8-12-69, Cl. 23-269.
Watt, Roy E .: *See—*
Kesling, Keith K.; and Watt, Roy E .,3,455,061.
Watt, William Russell, to American Can Company. Olefin polymerization process. 3,449,263, 6-10-69, Cl. 252-429.
Watt, William: *See—*
Wadsworth, Nicolas John; and Watt, William,3,476,703.

Wattenburg, Willard H., to Berkeley Scientific Laboratories, mesne. Signalling and communication system. 3,460,121, 8-5-69, Cl. 340-216.
Wattendorf, Frank L.: *See—*
von Ohain, Hans J. P.; and Wattendorf, Frank L.,3,465,180.
von Ohain, Hans J. P.; Wattendorf, Frank L.; and Lawson, Maurice O.,3,439,197.
Watters, Bill G.: *See—*
Malme, Charles I.; and Watters, Bill G.,3,454,127.
Watters, Charles K., to Albemarle Paper Company. Method of making a decomposition resistant bag. 3,477,348, 11-11-69, Cl. 93-35.
Watters, James W.; Farncomb, Robert E.; and Cziesla, Manfred J., to United States of America, Navy. Process for producing hydroxylammonium perchlorate. 3,420,621, 1-7-69, Cl. 23-85.
Watters, Johnny T., to Clark Equipment Company. Material handling device. 3,452,883, 7-1-69, Cl. 214-1.
Watters, Larry H., to Goodyear Tire & Rubber Company, The. Method of rejuvenating a substrate surface having deposits thereon. 3,475,217, 10-28-69, Cl. 134-3.
Watters, Robert L., to General Electric Company. Self quenching negative resistance superregenerative diode detector. 3,434,063, 3-18-69, Cl. 329-205.
Watters,Edward C.: *See—*
Moore, Thomas M.; and Watters,Edward C.,3,436,533.
Watthey, Jeffrey W. H.; and Doebel, Karl J.Hydroxy-and methoxy hexahydrobenzo [b] quinolizines. 3,484,443, 12-16-69, Cl. 260-289.
Wattler, Wilhelm. Chain making machines. 3,431,723, 3-11-69, Cl. 59-25.
Watts, Chester B., Jr., to Alford, Andrew. Scanning apparatus comprising parallel conductor transmission line means. 3,480,886, 11-25-69, Cl. 333-7.
Watts, Claude H., to Precision Metalsmiths, Inc. Method of making a pattern set-up for use in investment casting. 3,443,627, 5-13-69, Cl. 164-45.
Watts, Claude H.; and Horton, Robert A., to Precision Metalsmiths, Inc. Method of investment casting. 3,424,227, 1-28-69, Cl. 164-36.
Watts, Claude H.; Shields, Arthur A.; and Krohn, Harvey W., to Precision Metalsmiths, Inc. Investment casting apparatus. 3,446,266, 5-27-69, Cl. 164-160.
Watts, Glen A. Semiintegral two-way plow with offset steeabl0e tail wheel. 3,481,406, 12-2-69, Cl. 172-204.
Watts, James B., to Elligott Enterprises, mesne. Valve for charging sewer line water traps. 3,422,835, 1-21-69, Cl. 137-115.
Watts, James P. Construction support system and methods and apparatus for contruction thereof. 3,422,629, 1-21-69, Cl. 61-53.52
Watts, James P. Drilling auger and cutting tooth therefor. 3,422,915, 1-21-69, Cl. 175-388.
Watts, James P. Cutting tooth for earth drilling and digging machines. 3,453,658, 7-1-69, Cl. 175-388.
Watts, Jefferson L.; and Coffman, John W., III, to Greensboro Electronics, Inc. Apparatus for eliminating tone burst signals in audio circuits of tape recorders. 3,449,530, 6-10-69, Cl. 179-100.2
Watts, John D., to Rockwell Manufacturing Company. Plug valve assembly. 3,450,384, 6-17-69, Cl. 251-175.
Watts, John Francis: *See—*
English, James; Putner, Tony Ian; Watts, John Francis; and Hill, Jeremy Allan,3,445,673.
Watts, Leonard. Continuous casting process and apparatus. 3,485,288, 12-23-69, Cl. 164-82.
Watts, Louis A., to Emerson Electric Co. Pulse controlled mechanism security system. 3,428,033, 2-18-69, Cl. 123-146.5
Watts, Loyal O., to Caterpillar Tractor Company. Cylindrical retaining pin rigid construction. 3,468,210, 9-23-69, Cl. 85-8.3
Watts, Melvin P.; and Schleter, George H. Diving duck toy. 3,434,234, 3-25-69, Cl. 46-92.
Watts, Percy E.; and Colleran, Brian M., to Link 51 Limited. Control wheels for use with roller conveyors. 3,447,653, 6-3-69, Cl. 193-35.
Watts Regulator Co.: *See—*
Butters, Lamont Chester; and Horne, George Burchard, 3,459,443.
Hendrickson, Howard Doerle, 3,485,260.
Watts, Richard M., to Reynolds Metals Company. Package means. 3,481,456, 12-2-69, Cl. 206-50.
Watts, Ridley, Jr., to American Packaging Corporation, The. Die for forming thermoplastic film. 3,474,497, 10-28-69, Cl. 18-19.
Watts, Robert H.; and Ellis, Walter E. Floating structures. 3,455,115, 7-15-69, Cl. 61-48.
Watts, Robert N.: *See—*
Burton, Herbert O.; and Watts, Robert N.,3,475,723.
McRae, Lorin P.; Watts, Robert N.; and Wolf, William J., Jr.,3,471,830.
Watts, Robert N., to Bell Telephone Laboratories, Incorporated. Error control decoding system. 3,437,995, 4-8-69, Cl. 340-146.1
Watts, Walter Alfred Henry, to P. & M. Co. (England) Limited, The. Apparatus for applying liquid to the rails of railway tracks. 3,476,213, 11-4-69, Cl. 184-3.
Watts, William Carrigan, to Dennison Manufacturing Company. Label strip. 3,481,460, 12-2-69, Cl. 206-56.
Watts, William Sewell, to AMP Incorporated. Flexible tube coupling. 3,434,746, 3-25-69, Cl. 285-162.
Waugh, Dale L.; Brooks, Alden W.; Jensen, Howard J.; and Richmond, Kenneth D., to Dayco Corporation. V-belts. 3,478,613, 11-18-69, Cl. 74-233.
Waugh, John A.: *See—*
Marzocchi, Alfred; and Waugh, John A.,3,432,332.
Waugh, John S., to Massachusetts Institute of Technology. Magnetic resonance apparatus using a programmed radiofrequency excitation. 3,474,329, 10-21-69, Cl. 324-0.5
Waukesha Culvert Company: *See—*
Wilder, Perry J., 3,485,393.
Waukesha Foundry Company, Inc.: *See—*
Little, Clarence W., Jr., 3,473,478.
Wausau Metals Corporation: *See—*
Ringle, John, III, 3,469,347.
Waver, Max A.; Wallace, David J.; and Straley, James M., to Eastman Kodak Company. Methine dyes for hydrophosic fibers. 3,453,270, 7-1-69, Cl. 260-244.
Wavre, Andre: *See—*
Thompson, Francis T.; and Wavre, Andre,3,469,082.
Wawner, Franklin E., Jr., to Texaco Experiment Incorporated. Method of making high strength refractory filaments. 3,446,682, 5-27-69, Cl. 156-3.
Wax, Robert L.: *See—*
Bernstein, William; and Wax, Robert L.,3,435,214.
Waxman, Ronald A.: *See—*
Chesnul, Jerome J.; and Waxman, Ronald A.,3,449,738.
Forslund, Donald C.; and Waxman, Ronald,3,428,903.
Way, David G. Device for dispensing and applying pressure sensitive tape. 3,455,769, 7-15-69, Cl. 156-530.
Way, David G. Dog toy. 3,476,086, 11-4-69, Cl. 119-29.
Way, Kenneth Richard: *See—*
Lovelock, Leonard Robert; Way, Kenneth Richard; and Wren, Robert Henry,3,479,204.
Way, Richard K.: *See—*
Honkonen, Richard A.; Allen, Paul E.; Way, Richard K.; and Larime, Carl M.,3,437,282.
Way, Robert B. Mask washer. 3,438,355, 4-15-69, Cl. 118-301.
Way, Robert B. Work support fixture for a coating machine. 3,456,617, 7-22-69, Cl. 118-322.
Way, William E., to Ashland Oil & Refining Company. Bag reject system. 3,481,465, 12-2-69, Cl. 209-74.
Wayboer, Arthur, to United States of America, Army. Flat electrical conductor terminal. 3,428,740, 2-18-69, Cl. 174-94.
Waychoff, John L., 1/2 to Haines, Leslie V. Method of winding printing paper rolls. 3,446,449, 5-27-69, Cl. 242-67.3
Waye, William E., to International Equipment Company. Centrifuge and means to prevent overdriving its rotor. 3,462,670, 8-19-69, Cl. 318-464.
Waye, William E.; and Kotsifas, Peter N., to International Equipment Company. Refrigerated centrifuge. 3,444,695, 5-20-69, Cl. 62-3.
Waylett, Clive E., to Union Carbide Corporation. Oxidation resistant composites. 3,470,003, 9-30-69, Cl. 106-56.
Wayman, Morris; and Rapson, William H., to Hooker Chemical Corporation, mesne. Process of bleaching paper with peracetic acid. 3,467,575, 9-16-69, Cl. 162-78.
Waymouth, John F., to Sylvania Electric Products Inc. Process for removing alkali contamination from electric lamps. 3,425,767, 2-4-69, Cl. 316-22.
Waymouth, John F., to Sylvania Electric Products, Inc. Electric discharge lamp with the starting resistor impedance twice that of the lamp impedance. 3,445,721, 5-20-69, Cl. 315-60.
Waymouth, John F.; and Koury, Frederic, to Sylvania Electric Products Inc. Arc tubes and process for their fabrication. 3,427,087, 2-11-69, Cl. 316-13.
Waymouth, John F.: *See—*
Gungle, Warren C.; Peterson, Carl L.; and Waymouth, John F.,3,424,935.
Wayne, Clyde D.: *See—*
Miller, Roland E.; and Wayne, Clyde D.,3,463,400.
Miller, Roland E.; Wayne, Clyde D.; Olson, Edgar C.; and Piatek, Robert J.,3,479,024.
Miller, Roland E.; Wayne, Clyde; and Kirby, William T.,3,425,123.
Wayne Engineering Corporation: *See—*
Worthington, Stanley W., 3,482,715.
Wayne, Harry A.: *See—*
Gray, Avrum; Wayne, Harry A.; and Steffens, James E.,3,452,210.
Wayne Manufacturing Company: *See—*
Ayala, Ariel R., 3,436,782.
Tamny, Simon, 3,436,788.
Wayne, Truman B. Rice milling process. 3,421,902, 1-14-69, Cl. 99-80.
Wayne, Truman B. Method for upflow milling of grain. 3,422,866, 1-21-69, Cl. 146-221.8

Wayne, Truman B. Rice desolventizing apparatus and method. 3,451,141, 6-24-69, Cl. 34-36.
Ways & Means, Inc.: *See*—
de Greeve, Harry V.; and Ragan, James B., 3,434,906.
Ragan, James B., 3,441,179.
Waywell, Thomas; and James, Thomas H., to Rylands Brothers Limited. Method and means for dispensing wire from a reel. 3,484,054, 12-16-69, Cl. 242-128.
Waz, Edward, to Eastman Kodak Company. Photometer apparatus employing matched circuits. 3,464,773, 9-2-69, Cl. 356-215.
Waznys, Peter J.: *See*—
Aasen, Torulf F.; Schlessel, Joseph H.; and Waznys, Peter J.,3,459,474.
Waznys, Peter J.; and Garrido, John A., to Collectron Corporation. Multispeed encoder. 3,457,378, 7-22-69, Cl. 200-8.
Weagant, William D., to Sigma Industries, Inc. Heat shrinkable grommet. 3,423,518, 1-21-69, Cl. 174-153.
Weagley, Robert J.: *See*—
Carnall, Edward, Jr.; Hatch, Sherley E.; Parsons, William F.; and Weagley, Robert J.,3,453,215.
Weakley, Robert H.: *See*—
Keistman, Arnold R.; and Weakley, Robert H.,3,433,983.
Wean Industries, Inc.: *See*—
Pitchford, Irvin M.; and Messerly, Robert H., 3,478,899.
Taylor, Irving R.; and Williams, Arthur L., 3,446,933.
Wear-Flex Corporation, The: *See*—
Norton, Roy, 3,463,534.
Norton, Roy, 3,466,080.
Weather Engineering Corporation of Canada Ltd.: *See*—
D'Avignon, Jacques; and Power, Bernard A., 3,441,214.
Weather Shield Aluminum Products, Inc.: *See*—
Spencer, Robert L., 3,443,345.
Weather-Seal, Inc.: *See*—
Johnson, Waldo O.; and Shacklette, James E., 3,442,051.
Walter, Rodney P., 3,448,542.
Weather-Tite Division of the Pacific Coast Company: *See*—
Lashkow, Jack I., 3,430,395.
Weatherhead, Albert J., III, to Weatherhead Company, The. Hose fitting for connecting hoses of different sizes. 3,433,505, 3-18-69, Cl. 285-177.
Weatherhead, Albert J., Jr.; and Nicol, John, to Weatherhead Company, The. Method of making a hose coupling. 3,479,713, 11-25-69, Cl. 29-157.
Weatherhead Company, The: *See*—
Acker, Richard C.; Bahniuk, Eugene; and Kozulla, Robert E., 3,466,065.
Budzich, Tadeusz, 3,423,935.
Budzich, Tadeusz, 3,444,689.
Budzich, Tadeusz, 3,464,439.
Budzich, Tadeusz, 3,470,694.
Collins, Joseph F., 3,460,484.
Courtot, Louis B.; and Mack, Thomas J., 3,442,537.
Courtot, Louis B.; Jeromsom, James R., Jr.; and Morse, Philip W., 3,463,517.
Murauskas, Donald J., 3,442,515.
Murauskas, Donald J., 3,473,551.
Nicol, John, 3,439,941.
Weatherhead, Albert J., III, 3,433,505.
Weatherhead, Albert J., Jr.; and Nicol, John, 3,479,713.
Weathers, Leland Clay, to Sperry Rand Corporation. Spool type valve. 3,460,577, 8-12-69, Cl. 137-625.69
Weathers, Thomas G., Jr., to Celanese Corporation. Tow spreading and width control device. 3,439,385, 4-22-69, Cl. 19-0.35
Weatherston, Roger C., to Cornell Aeronautical Laboratory, Inc. Rotary wave compressors and the like. 3,430,847, 3-4-69, Cl. 230-150.
Weatherston, Roger C., to Cornell Aeronautical Laboratory, Inc. Rotary wave compressors and the like. 3,438,569, 4-15-69, Cl. 230-150.
Weatherston, Roger C., to Cornell Aeronautical Laboratory, Inc. Multirecompression heater and/or high temperature compressor. 3,484,823, 12-16-69, Cl. 230-141.
Weaver, Curtis C.; and Kirkpatrick, Robert E. Silo filling attachment for an air sealed silo having a dome shaped roof. 3,459,457, 8-5-69, Cl. 302-60.
Weaver, Edward A., to Owens-Illinois, Inc. High silica content glasses. 3,460,926, 8-12-69, Cl. 65-18.
Weaver, Ernest P., to Dresser Industries, Inc. Coated refractory shapes. 3,453,139, 7-1-69, Cl. 117-113.
Weaver, Ernest P., to Dresser Industries, Inc. Refractory shapes coated with organic material. 3,453,140, 7-1-69, Cl. 117-113.
Weaver, Ernest P., to Harbison-Walker Refractories Company. Tar bearing refractory shape coated with a latex-type paint. 3,483,026, 12-9-69, Cl. 117-161.
Weaver, Frank C.: *See*—
Josephsen, Gene H.; and Weaver, Frank C.,3,435,339.
Kraft, Edmond W.; and Weaver, Frank C.,3,483,500.
Weaver, George W.: *See*—
Heidemann, William B.; and Weaver, George W.,3,460,477.
Weaver, Harry E., Jr.; and Kingston, Floyd E., to Varian Associates. Superconductive magnet protected by forward and backward conducting diode pairs. 3,474,294, 10-21-69, Cl. 317-13.
Weaver, Horace F. Weedless fish hook with variable release force adjustment. 3,483,650, 12-16-69, Cl. 43-35.
Weaver, John A.: *See*—
Mac Henry, Carl; Weaver, John A.; and Towell, Gordon D.,3,477,491.
Weaver, John Anthony; and Woollons, David John, to North American Philips Company, Inc. Reduction of noise in a character recognition system. 3,439,353, 4-15-69, Cl. 340-174.
Weaver, Joseph F., to K-S-H, Inc. Frame with decorator panel. 3,440,786, 4-29-69, Cl. 52-311.
Weaver, Joseph F.; and Stahlhut, Leo G., to K-S-H, Inc. Multidoor shower enclosure. 3,461,466, 8-19-69, Cl. 4-149.
Weaver, Lewis J. Carpet sewing mechanism. 3,457,884, 7-29-69, Cl. 112-7.
Weaver, Lloyd H. Display device. 3,453,759, 7-8-69, Cl. 40-68.
Weaver, Marvin P.: *See*—
Greer, Albert H.; and Weaver, Marvin P.,3,428,616.
Weaver, Mary Ollidene: *See*—
Gugliemelli, Lewis A.; Weaver, Mary Ollidene; and Russell, Charles R.,3,425,971.
Weaver, Max A.; and Dale, John I., to Eastman Kodak Company. Dis-benzothiazolylazo dyes. 3,485,813, 12-23-69, Cl. 260-158.
Weaver, Max A.; Straley, James M.; and Dale, John I., III, to Eastman Kodak Company. Disazo dyestuffs containing a vinylsulfonylethyl tetrahydroquinoline radical. 3,472,833, 10-14-69, Cl. 260-155.
Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Benzothiazolyl monazo dyes. 3,423,394, 1-21-69, Cl. 260-158.
Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Benzothiazolyl monoazo dyes. 3,424,740, 1-28-69, Cl. 260-158.
Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Thiazolyl monoazo dyes for hydrophobic textile fibers. 3,429,871, 2-25-69, Cl. 260-158.
Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Disazo dyes for textile materials. 3,438,965, 4-15-69, Cl. 260-187.
Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Cyanomethylidene-tetrahydroquinoline compounds. 3,453,280, 7-1-69, Cl. 260-287.
Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Monoazo compounds containing a piperazine type ring substituted by an organo sulfonyl group. 3,464,971, 9-2-69, Cl. 260-154.
Weaver, Max A.: *See*—
Dale, John I., III; and Weaver, Max A.,3,422,133.
Dale, John I., III; and Weaver, Max A.,3,453,256.
Dale, John I., III; Straley, James M.; and Weaver, Max A.,3,446,791.
Dickey, Joseph B.; and Weaver, Max A.,3,442,886.
Wallace, David J.; and Weaver, Max A.,3,428,621.
Wallace, David J.; and Weaver, Max A.,3,445,452.
Wallace, David J.; Straley, James M.; and Weaver, Max A.,3,424,741.
Wallace, David J.; Weaver, Max A.; and Straley, James M.,3,438,961.
Weaver, Paul J., to True-Trace Corporation. Ditherer and tracer valve assembly. 3,459,401, 8-5-69, Cl. 251-3.
Weaver, Paul J., to True-Trace Corporation. Tracer valve assembly. 3,459,402, 8-5-69, Cl. 251-3.
Weaver, Ted T. Fly catcher with adhesive lined head portion. 3,449,856, 6-17-69, Cl. 43-136.
Weaver, Victor Charles: *See*—
Knight, Colin Sutherland; Reimer, Alexander Claude; Weaver, Victor Charles; and Brook, Brian Neville,3,446,794.
Weaver, W. R., Company: *See*—
Thompson, John F., 3,470,616.
Weaver, William R., 3,423,146.
Weaver, William R., 3,429,634.
Weaver, Wallis A. Land leveler and grader. 3,486,567, 12-30-69, Cl. 172-460.
Weaver, William R., to Weaver, W. R., Company. Variable power telescope sight with elongated optical plastic lenses having guides thereon. 3,423,146, 1-21-69, Cl. 350-44.
Weaver, William R., to Weaver, W. R., Company. Erector support for telescope sights. 3,429,634, 2-25-69, Cl. 350-54.
Weaving Research & Textile Commission Agents Limited: *See*—
Shimwell, Derrick Walter, 3,430,664.
Weaving Research & Textile Commission Agents Ltd.: *See*—
Shimwell, Derrick Walter, 3,426,805.
Web, Jervis B., Company: *See*—
Dehne, Clarence A., 3,434,431.
Web Offset Publications Corporation: *See*—
Gambella, George; and Gambella, Thomas, 3,455,238.
Web Press Engineering, Inc.: *See*—
Anderson, Bruce D.; and Sonntag, Orville C., 3,486,448.

Otepka, Rudolph T.; and Stout, Arthur G., 3,448,907.
Wilkerson, Alan W., 3,435,316.
Wilkerson, Alan W., 3,456,176.
Wilkerson, Alan W., 3,456,177.
Wilkerson, Alan W., 3,458,790.
Wilkerson, Alan W., 3,475,671.
Wilkerson, Alan W., 3,484,676.
Wilkerson, Alan W., 3,486,102.

Webb, Arthur. Masking composition. 3,455,712, 7-15-69, Cl. 106-157.

Webb Associates, Inc.: *See—*
Crocker, Jeremy F., 3,430,688.

Webb, C. J., Inc.: *See—*
Perez, Louis N.; and Bult, Eddo A., 3,424,336.

Webb, Daniel D. Energy absorbing helmet shell. 3,425,061, 2-4-69, Cl. 2-3.

Webb, Daniel D., to American Safety Equipment Corporation of Michigan. Camouflaged helmet shell and method for making same. 3,479,666, 11-25-69, Cl. 2-3.

Webb, Derrel D., to Houston Engineers, Inc. Keyseat wiper. 3,431,990, 3-11-69, Cl. 175-295.

Webb, Derrel D., to Houston Engineers, Inc. Method and apparatus for separating sections of well pipe. 3,434,543, 3-25-69, Cl. 166-277.

Webb, Donald A. Pressure-limiting device for tires. 3,450,147, 6-17-69, Cl. 137-226.

Webb, Donald L. Wig. 3,470,889, 10-7-69, Cl. 132-53.

Webb, Dorothy: *See—*
Eberly, Paul E., Jr.; and Webb, Dorothy,3,485,748.

Webb, Douglas E., to Xerox Corporation. Film frame detection system. 3,435,243, 3-25-69, Cl. 250-219.

Webb, Douglas E.: *See—*
Miller, William E.; and Webb, Douglas E.,3,479,119.

Webb, Elmer J., to Brewer-Titchener Corporation, The. Seal for expansion joints. 3,455,215, 7-15-69, Cl. 94-18.

Webb, Ernest C., to Lakewood Manufacturing Co. Bowling ball decelerating apparatus. 3,468,537, 9-23-69, Cl. 273-49.

Webb, Gardello F. Cracking apparatus. 3,444,910, 5-20-69, Cl. 146-16.

Webb, George Warren: *See—*
Lawrence, Willis Thompson; and Webb, George Warren,3,475,596.

Webb, Godfrey Basil: *See—*
Ritchie, Alexander Crawford; Cocker, John Derek; and Webb, Godfrey Basil,3,481,934.

Webb, James E., administrator of The National Aeronautics and Space Administration with respect to an invention of Hawley, James John. Method of erasing target material of a vidicon tube or the like. 3,431,460, 3-4-69, Cl. 315-26.

Webb, James E., administrator of the National Aeronautics and Space Administration with respect to an invention of,; Cohen, David; and Stone, Samuel E. Fluid sample collector. 3,438,263, 4-15-69, Cl. 73-422.

Webb, James E., Administrator of the National Aeronautics and Space Administration, with respect to an invention of,; Krupnick, Albert C.; and Daniel, P. Lucero. Method for detecting hydrogen gas. 3,429,177, 2-25-69, Cl. 73-24.

Webb, James E., Administrator of the National to an invention of,; Peek, Charles R.; and Boodley, Lewis E., to Aeronautics and Space Administration, with respect N/A. Connector strips. 3,422,213, 1-14-69, Cl. 174-72.

Webb, Jervis B., Company: *See—*
Curry, Byrl E.; Dehne, Clarence A.; and Farley, Joseph W., 3,451,352.
Dehne, Clarence A.; and Roland, Robert J., 3,420,188.

Webb, John E.: *See—*
Scroggs, John E.; Webb, John E.; and Schlund, Glenn F.,3,424,106.

Webb, John M.; and Herrmann, Eldor R., to Mellen, Edward J., Jr. Ceramic crack sealer. 3,465,420, 9-9-69, Cl. 29-490.

Webb, John M.: *See—*
Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M.,3,452,804.

Webb, John; Gatley, John Andrew; and McFall, Albert, to United Kingdom Atomic Energy Authority. Detection of fuel element sheathing failures in nuclear reactors. 3,453,867, 7-8-69, Cl. 73-19.

Webb, Joseph Leroy, to Swindell-Dressler Company, a division of Pullman Incorporated. Strip handling apparatus. 3,460,549, 8-12-69, Cl. 134-64.

Webb, Oswald, to Ferguson, Harry, Research Limited. Clutches. 3,477,302, 11-11-69, Cl. 74-142.

Webb, Paul U., to Phillips Petroleum Company. Continuous sampling and analyzing system with liquid-vapor separator and flow control means. 3,451,895, 6-24-69, Cl. 196-132.

Webb, Phillip B., Jr.: *See—*
Johnson, Burt E.; and Webb, Phillip B., Jr.,3,437,130.

Webb, Robert David. Appointment board. 3,484,967, 12-23-69, Cl. 40-195.

Webb, Robert R., to Ampex Corporation. Power amplifier simultaneous conduction prevention circuit. 3,448,395, 6-3-69, Cl. 330-.13.

Webb, Robert S., to Elox Inc., mesne. Servo feed system for electrical discharge machining. 3,437,781, 4-8-69, Cl. 219-69.

Webb, Stephen F.: *See—*
Winchester, Charles M.; Faccone, Joseph A.; and Webb, Stephen F.,3,476,591.

Webb, Walter S., to United States of America, Atomic Energy Commission. Gas shielding device. 3,450,857, 6-17-69, Cl. 219-74.

Webbe, Charles E., to Anaconda American Brass Company. Jacketed strip-wound metal hose. 3,459,233, 8-5-69, Cl. 138-131.

Webber, Clarence Eugene; and Drescher, George William, to New York Wire Company. Process for casting clad metal bars. 3,421,571, 1-14-69, Cl. 164-86.

Webber, Gayle M.: *See—*
Dryden, Hugh L., Jr.; and Webber, Gayle M.,3,455,907.

Webber, Harold H., to Brunswick Corporation. Pen point. 3,467,478, 9-16-69, Cl. 401-292.

Webber, Harold H., to Brunswick Corporation. Porous metal structure. 3,469,297, 9-30-69, Cl. 29-180.

Webber, Harold H.; and Riordan, Pauline F., to Brunswick Corporation. Heater fabric. 3,472,289, 10-14-69, Cl. 139-425.

Webber, Jack S.: *See—*
Whitmire, William A.; and Webber, Jack S.,3,430,987.

Webber, Milo R.: *See—*
Bobier, Earl E.; and Webber, Milo R.,3,474,202.

Webber, Paul J.: *See—*
Helfgott, Theodore; and Webber, Paul J.,3,450,354.

Webber, Paul J., to Ritter Pfaudler Corporation. Upflow filtration of fluids. 3,424,674, 1-28-69, Cl. 210-20.

Webber, Philip S.: *See—*
Ball, Glenn A.; Lichtenstein, Le Roy; and Webber, Philip S.,3,480,122.

Webber, William O.: *See—*
Donnelly, John F.; Larsen, Michael J.; and Webber, William O.,3,427,138.

Webber, William O., to Esso Research and Engineering Company. Hydrogenation process. 3,432,481, 3-11-69, Cl. 260-82.

Webber, William T.: *See—*
Blevins, Theodore R.; and Webber, William T.,3,483,924.

Webbere, Fred J.; and Williams, Robert G., to General Motors Corporation. Method of casting a pitted surface. 3,433,284, 3-18-69, Cl. 164-111.

Webcor, Inc.: *See—*
Bull, Donald E., 3,440,438.

Webel, Edmund. No-return container for beer and other liquids. 3,468,450, 9-23-69, Cl. 220-27.

Weber, Adolph C., to Laclede Steel Company. Reinforcing mat for use in constructing continuously reinforced concrete slabs. 3,430,406, 3-4-69, Cl. 52-660.

Weber, Alan E.; and Gettys, Donald C., to Libby, Mc Neill & Libby. Pitting and slicing apparatus. 3,454,064, 7-8-69, Cl. 146-19.

Weber, Alfred R., to Ross Operating Valve Company. Indexing fluid control device. 3,459,224, 8-5-69, Cl. 137-625.63

Weber, Arno: *See—*
Mohring, Gustav; Weber, Arno; Glasz, Eugen G.; and Hagele, Gerhard,3,482,750.

Weber, Arthur; Hill, Franics R.; and Rowe, David, to Interchemical Corporation. Method for forming solutions of polyester resin in liquid polymerizable ethylenically unsaturated monomers. 3,436,365, 4-1-69, Cl. 260-33.6

Weber, Bruce R.: *See—*
Gresenz, William M.; Bendrick, Edward S.; Weber, Bruce R.; and Archacki, William J.,3,483,149.

Weber, Carl D.: *See—*
Layne, Douglas K.; Northrup, Hal J.; and Weber, Carl D.,3,445,417.

Weber, Carl L.; and Wolk, Ronald H., to Hydrocarbon Research, Inc. Liquid phase reactor. 3,475,134, 10-28-69, Cl. 23-288.

Weber, Charles A. Rearview mirror supporting device. 3,433,448, 3-18-69, Cl. 248-476.

Weber, Charles H., to Maysteel Products Corp. Insulated electrical conductor system. 3,439,132, 4-15-69, Cl. 191-35.

Weber, Christian A.; and Vincent, Jerome L., to Dow Chemical Company, The. Resin foam-metal laminate composites. 3,467,569, 9-16-69, Cl. 161-160.

Weber, Christine. Manufacture of elongated resinous strips. 3,470,286, 9-30-69, Cl. 264-167.

Weber, Eduard: *See—*
Buick, Kurt; Klein, Heinrich; and Weber, Eduard,3,466,853.
Klein, Heinrich; Weber, Eduard; Pieper, Rudolf; and Hoffmann, Alfred,3,477,569.

Weber, Edward H., Jr.: *See—*
Troemel, Clarence P.; and Weber, Edward H., Jr.,3,420,104.

Weber, Edward V.: *See—*
Brunner, Rolf H.; and Weber, Edward V.,3,466,514.
Hoernes, Gerhard E.; and Weber, Edward V.,3,469,257.

Weber, Ernesto J. Process for obtaining the relief or clearance angle in circular edge cutting. 3,466,909, 9-16-69, Cl. 72-68.

Weber, Eugen: *See*—
Jenkins, Alexander; and Weber, Eugen,3,433,862.
Weber, Frank W., to Burroughs Corporation. Phase synchronization circuit. 3,479,606, 11-18-69, Cl. 328-201.
Weber, Fred C., Jr., to Phelan-Faust Paint Manufacturing Company. Repairing metal tank bottoms. 3,450,295, 6-17-69, Cl. 220-18.
Weber, Friedrich; Fuchs, Helmut; and Kummer, Karl-Joachim, to Veb Halbmond-Teppiche. Method of continuously dyeing textile webs and the like. 3,443,878, 5-13-69, Cl. 8-14.
Weber, H. G., and Company, Inc.: *See*—
Petersen, Burdette A., 3,450,099.
Weber, Hans B.; and Brown, Joseph, to Midland-Ross Corporation. Dampened railway car truck bolster. 3,461,814, 8-19-69, Cl. 105-193.
Weber, Hans B.: *See*—
Gedris, Algis E.; Weber, Hans B.; and Brown, Joseph,3,461,815.
Weber Hans J.: *See*—
Benko, Joseph R.; and Weber Hans J.,3,464,043.
Weber, Hans J.; and Mutschler, William H., to Allis-Chalmers Manufacturing Company. Tapped transformer winding having high short circuit strength. 3,484,727, 12-16-69, Cl. 336-147.
Weber, Hans, to Demag Aktiengesellschaft. Automatic tying device. 3,448,680, 6-10-69, Cl. 100-10.
Weber, Harold C.: *See*—
Hervert, George L.; and Weber, Harold C.,3,472,632.
Weber, Harold, to Celanese Corporation. Web supporting system. 3,450,322, 6-17-69, Cl. 226-97.
Weber, Harry W., Jr., to FMC Corporation. Synthesis of 2,3-dihydro-2,2,4-trimethyl-7- benzofuranol. 3,455,961, 7-15-69, Cl. 260-346.2
Weber, Heinrich: *See*—
Schleimer, Bernhard; and Weber, Heinrich,3,424,734.
Winter, Hermann; and Weber, Heinrich,3,423,383.
Weber, Heinz P.; and Wilkes, John B., to Chevron Research Company. Liquid phase hydrocarbon oligomerization process. 3,449,464, 6-10-69, Cl. 260-683.15
Weber, Heinz: *See*—
Brockhaus, Gehard; Leonhardt, Gunter; and Weber, Heinz,3,461,257.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Weber, Heinz; and Willersinn, Herbert,3,457,204.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert,3,472,799.
Burger, Heinz; Mohr, Heinrich; Priebe, Edmund; Reuter, Lothar; and Weber, Heinz,3,441,524.
Weber, Heinz, to Bremshey & Co. Collapsible umbrella. 3,437,097, 4-8-69, Cl. 135-26.
Weber, Heinz, to Bremshey & Co. Collapsible umbrella frame. 3,439,690, 4-22-69, Cl. 135--026
Weber, Heinz, to Bremshey & Co. Collapsible umbrella. 3,439,691, 4-22-69, Cl. 135-26.
Weber, Heinz, to Bremshey & Co. Telescopically collapsible umbrella frame of the triple-linkage type. 3,456,662, 7-22-69, Cl. 135-26.
Weber, Heinz, to Bremshey & Co. Umbrella handle. 3,482,586, 12-9-69, Cl. 135-20.
Weber, Heinz; Burger, Heinz; Daumiller, Guenther; Willersinn, Herbert; and Grohmann, Johannes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Self-extinguishing styrene polymer composition containing a bromine compound and 2,3-dimethyl- 2,3-diphenyl butane. 3,420,786, 1-7-69, Cl. 260-2.5
Weber, Helmut: *See*—
Aumuller, Walter; Weber, Helmut; Muth, Karl; Weyer, Rudi; and Schmidt, Felix,3,454,636.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Schmidt, Felix Helmut,3,448,149.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Peschke, Wilhelm,3,449,346.
Gumin, Heinz; and Weber, Helmut,3,482,112.
Haack, Erich; Peschke, Wilhelm; Stach, Kurt; Schmidt, Felix H.; and Weber, Helmut,3,439,033.
Muth, Karl; Aumuller, Walter; Weyer, Rudi; and Weber, Helmut,3,420,882.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Korger, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Treatment of diabetes with benzene- sulfonyl-cyclohexyl ureas. 3,483,297, 12-9-69, Cl. 424-321.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Muth, Karl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Treatment of diabetes mellitus with benzenesulfonyl ureas. 3,435,116, 3-25-69, Cl. 424-267.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Felix, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning Meister Lucius & Bruning. Benzenesulfonyl ureas and process for their manufacture. 3,426,067, 2-4-69, Cl. 260-553.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Flix Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulfonyl-ureas and process for their manufacture. 3,454,635, 7-8-69, Cl. 260-553.
Weber, Helmut; Muth, Karl; Weyer, Rudi; Aumuller, Walter; and Schmidt, Felix Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulphonyl-ureas and process for preparing them. 3,449,417, 6-10-69, Cl. 260-553.
Weber, Herbert; Lange, Gunter; Muller, Hubert; Von Fellner, Michael; and Heer, Roland, to Telefunken Patentverwertungsgesellschaft m.b.H. Distortion-free frequency modulator circuit. 3,435,376, 3-25-69, Cl. 332-18.
Weber, John P., Jr. Gun bore inspecting device which includes a diffuse and a specular reflector. 3,423,154, 1-21-69, Cl. 356-241.
Weber, John Q.: *See*—
Lawton, Emil A.; and Weber, John Q.,3,433,595.
Weber, Josef, to International Standard Electric Corporation. Sealed reed relay and method of manufacturing the same. 3,483,491, 12-9-69, Cl. 335-151.
Weber, Joseph: *See*—
Dicke, Robert H.; Block, Barry; and Weber, Joseph,3,424,006.
Weber, Karl-Arnold: *See*—
Resz, Raoul; Bartl, Herbert; Weber, Karl-Arnold; and Boll, Manfred,3,483,076.
Weber, Karl. Multitemperature swimming pool. 3,460,166, 8-12-69, Cl. 4-172.
Weber, Klaus, to Leitz, Ernst, G.m.b.H. Microscope apparatus including photometric means. 3,421,806, 1-14-69, Cl. 350-19.
Weber, Kurt; Rickenbacher, Hansruedi; and Meister, Ulrich, to Ciba Limited. Polyalkylene terephthalate fibers with dispersed anthraquinone dyestuff. 3,473,882, 10-21-69, Cl. 8-39.
Weber, Kurt; Staeuble, Max; Ulrich, Paul; and Kern, Walter, to Ciba Limited. Vat dyeing with sulfonated benzoylimino- dianthraquinone vat dyes of vat dyes with five- fused rings. 3,464,780, 9-2-69, Cl. 8-34.
Weber, Manfred J.: *See*—
Weber, Paul W.; Weber, Manfred J.; and Clarke, James F.,3,453,776.
Weber, Matthias: *See*—
Lauer, Karl; Weber, Matthias; and Stoeck, Georg,3,483,031.
Weber, Max H., to Sulzer Brothers Limited. Apparatus and method for cooling a recirculating coolant medium. 3,438,357, 4-15-69, Cl. 122-32.
Weber, Max, to Sulzer Brothers, Limited. Heat exchanger of nuclear reactor. 3,425,906, 2-4-69, Cl. 176-65.
Weber, Max. Apparatus for preparing granulates. 3,428,264, 2-18-69, Cl. 241-90.
Weber, Neill: *See*—
Kummer, Joseph T.; and Weber, Neill,3,458,356.
Kummer, Joseph T.; and Weber, Neill,3,475,223.
Weber, Otto R., to Reynolds Metals Company. Metallic dish-like container. 3,451,587, 6-24-69, Cl. 220-66.
Weber, Otto R., to Reynolds Metals Company. Metallic dish-like container and method of making same. 3,451,588, 6-24-69, Cl. 220-66.
Weber, Paul E., to Siegler, Lear, Inc. Beam sweeping optical distance meter. 3,434,785, 3-25-69, Cl. 356-4.
Weber, Paul W.; Weber, Manfred J.; and Clarke, James F., to Construction Products Co., Inc. Firedoor assemblies. 3,453,776, 7-8-69, Cl. 49-7.
Weber, Paul: *See*—
Kramer, Bernhard; and Weber, Paul,3,479,126.
Weber, Paul, to Hellige, Fritz, & Co., G.m.b.H. Circuit for indicating devices. 3,453,486, 7-1-69, Cl. 315-25.
Weber, Paul, to Hellige, Fritz, & Co., G.m.b.H. Power supply unit with shielded transformer. 3,465,232, 9-2-69, Cl. 321-8.
Thomas, Rainer; Keiler, Wilfred; and Weber, Paul,3,458,901.
Weber, Robert D.: *See*—
Rosan, Jose, Sr.; and Weber, Robert D.,3,461,936.
Rosan, Jose, Sr.; and Weber, Robert D.,3,472,302.
Weber, Robert E., to Kimberly-Clark Corporation. Emulsion coating composition for paper. 3,474,053, 10-21-69, Cl. 260-6.
Weber, Robert E., to Kimberly-Clark Corporation. Printable paper product having a cellular coating containing pigment and a reaction product of pro- tein and an epoxy resin defining the cell walls. 3,478,716, 11-18-69, Cl. 117-68.
Weber, Robert E.: *See*—
Steber, Anthony J.; and Weber, Robert E.,3,427,971.
Weber Robert L.: *See*—
Beasley, Neil D.; Whitehurst, Gerald E.; Saletzki, Jacob S.; Lofthouse, Fred R.; and Weber Robert L.,3,452,610.
Weber, Robert L. Brewing selectively variable quantities of coffee. 3,423,209, 1-21-69, Cl. 99-71.
Weber, Robert L., to Caterpillar Tractor Company. Crankshaft mounting assembly. 3,464,746, 9-2-69, Cl. 308-23.
Weber, Robert L.; and Albright, Thomas M., to Caterpillar Tractor Company. Crankcase ventilating means for internal combustion engines. 3,469,565, 9-30-69, Cl. 123-119.
Weber, Russell A.: *See*—
Gregory, Benjamin F.; and Weber, Russell A.,3,448,335.
Weber Showcase & Fixture Co.: *See*—
Knab, James V., 3,465,666.
Weber, Theodore, Jr., to Cam Technology Incorporated. Integrator. 3,426,619, 2-11-69, Cl. 74-690.

Weber, Theodor, to Starck, Hermann C. Composite powders and apparatus for the production of the same. 3,428,543, 2-18-69, Cl. 204-273.
Weber, Walter O.: *See—*
Cronin, Edward W.; and Weber, Walter O.,3,437,722.
Weber, Walter O., to Haveg Industries, Inc. Windowed foam package. 3,432,380, 3-11-69, Cl. 161-124.
Weber, Wesley A.: *See—*
Swanquist, Wesley W.; and Weber, Wesley A.,3,448,952.
Swanquist, Wesley William; and Weber, Wesley A.,3,448,884.
Weber, Wilbert D.: *See—*
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter,3,457,797.
Ashton, Robert; Weber, Wilbert D.; and Hirsch, Walter,3,466,854.
Weber, Wilhelm. Fitting for tipping and swinging of windows or the like. 3,447,265, 6-3-69, Cl. 49-192.
Weber, Wilhelm: *See—*
Thorn, Ewald Reinhard; Weber, Wilhelm; Lemberg, Ernst Siegfried; and Blanche, Josef,3,437,212.
Weber, William H. A., Jr., to Schwartz, Samuel M. Method of pigmenting vinyl films and preparations for pigmenting the same. 3,470,278, 9-30-69, Cl. 264-54.
Weber, William H., to Standard Products Corporation. Method of manufacturing ink transfer ribbons. 3,452,854, 7-1-69, Cl. 197-172.
Weber, William J.: *See—*
Arslanian, Vincent; and Weber, William J.,3,464,575.
Weber, William J., to Phillips Petroleum Company. Printing on container closures. 3,486,442, 12-30-69, Cl. 101-40.
Weber, Wolfgang: *See—*
Emeis, Reimer; and Weber, Wolfgang,3,480,474.
Weber-Knapp Company: *See—*
Little, Carl H., 3,451,702.
Phelps, Malcolm T.; and Little, Carl H., 3,431,040.
Phelps, Malcom T., 3,457,584.
Weberling, Paul: *See—*
Geiling, Hermann; and Weberling, Paul,3,469,231.
Webers, Heinz, to Bau-Stahlgewebe GmbH. Synchronized reciprocating feed devices. 3,477,627, 11-11-69, Cl. 226-54.
Webers, Vincent Joseph, to Du Pont de Nemours, E. I., and Company. Photopolymerizable compositions, elements and processes. 3,445,229, 5-20-69, Cl. 96-28.
Webley, Reginald Sidney: *See—*
Birt, David Edward; Gibson, Anthony Thomas; Holden, Peter John; and Webley, Reginald Sidney,3,439,109.
Birt, David Edward; Sivyer, Raymond Frank; and Webley, Reginald Sidney,3,460,105.
Webster, Charles R.: *See—*
Smith, Vernon J.; and Webster, Charles R.,3,477,698.
Webster, Edward, Limited: *See—*
Webster, Edward, 3,485,418.
Webster, Edward, to Webster, Edward, Limited. Means for delivering measured quantities of semiliquid or pasty materials. 3,485,418, 12-23-69, Cl. 222-309.
Webster Electric Company, Inc.: *See—*
Adelman, Joseph Kalman, 3,430,574.
McAlvay, John C., 3,422,767.
McAlvay, John C.; and Hubbard, Glenn R., 3,465,519.
Rheaume, Roland O., 3,448,394.
Trick, Robert E., 3,451,344.
Webster, Francis George; and Burleigh, Dereck James Sutherland, to Imperial Chemical Industries Limited. Purification of adipic acid. 3,445,512, 5-20-69, Cl. 260-537.
Webster, Frederick, to Webster Machine Development Limited. Longwall mining machine having two vertical axis cutting drums. 3,424,499, 1-28-69, Cl. 299-51.
Webster, Frederick, to Mining Progress Inc., mesne. Mining machine having rotary cutter mounted for increased vertical and lateral range of cutting. 3,433,533, 3-18-69, Cl. 299-56.
Webster, Harold F., to General Electric Company. Electron diffraction unit. 3,445,708, 5-20-69, Cl. 313-84.
Webster, James A.: *See—*
Blake, Edward S.; and Webster, James A.,3,463,802.
Webster, John V.: *See—*
Cope, John M.; and Webster, John V.,3,452,460.
Webster, Lewis P.: *See—*
Worcester, Leslie E.; and Webster, Lewis P.,3,461,538.
Webster Machine Development Limited: *See—*
Webster, Frederick, 3,424,499.
Webster, Millard A. Rotary type distributor. 3,435,161, 3-25-69, Cl. 200-26.
Webster, Milo Edward, to Gillette Company, The. Dispensing valve. 3,465,918, 9-9-69, Cl. 222-136.
Webster, Milo Edward, to Gillette Company, The. Pressurized spray device. 3,465,922, 9-9-69, Cl. 222-402.18
Webster, Milo Edward, to Gillette Company, The. Valve. 3,482,784, 12-9-69, Cl. 239-493.
Webster, Milo E.; and Locke, Joseph K., to Bernz-O-Matic Corporation. Portable cooking stove. 3,430,622, 3-4-69, Cl. 126-38.
Webster, Murle F. Adjustable rack bodies for pickup trucks. 3,475,046, 10-28-69, Cl. 296-3.
Webster, Neil W.; and Kline, Charles M., to Sperry Rand Corporation. Rotary mower safety fence. 3,462,926, 8-26-69, Cl. 56-25.4
Webster, Robert C.; and Hinn, John S., to Air Reduction Company, Incorporated. Method of chilling fresh fruit products in bulk. 3,453,121, 7-1-69, Cl. 99-193.
Webster, Robert C.; and Schlemmer, Alfred H., Jr., said Webster assor to Air Reduction Company, Incorporated. Continuous freezer. 3,485,055, 12-23-69, Cl. 62-63.
Webster, Samuel John: *See—*
Ray, Neil Hunter; and Webster, Samuel John,3,484,224.
Webster, Thomas J., to British Oxygen Company Limited, The. Gas purification. 3,451,196, 6-24-69, Cl. 55-74.
Webster, Thomas J., to British Oxygen Company Limited, The. Liquid vapour contact tray. 3,467,365, 9-16-69, Cl. 261-114.
Webster, Thomas J.; and Garrett, Michael E., to British Oxygen Company Limited, The. Pulse tube refrigeration process. 3,431,746, 3-11-69, Cl. 62-86.
Webster, Walter A.,: *See—*
Lichti, Robert D., 3,424,321.
Webster, William C.: *See—*
Slager, John J.; and Webster, William C.,3,426,718.
Webster, William W.: *See—*
Messenger, Joseph U.; and Webster, William W.,3,454,095.
Wechmann, Otto: *See—*
Baltes, Josef; Weghorst, Frierich; and Wechmann, Otto,3,441,577.
Wechselblatt, Peter M.: *See—*
Daniels, George H.; and Wechselblatt, Peter M.,3,472,383.
Wechselblatt, Peter M., to Chemical Construction Corporation. Gas scrubber. 3,440,803, 4-29-69, Cl. 55-241.
Wechter, William J., to Upjohn Company, The. (4-Phenoxy-3,5-dihalophenyl) alkanoamides. 3,449,419, 6-10-69, Cl. 260-559.
Wechter, William J., to Upjohn Company, The. 5',5'-Di-(ARA)-nucleoside phosphates. 3,457,253, 7-22-69, Cl. 260-211.5
Wechter, William J., to Upjohn Company, The. Polymers of cytosine arabinoside phosphates. 3,462,414, 8-19-69, Cl. 260-211.5
Weck, Edward, & Company, Inc.: *See—*
Langdon, Arthur J., 3,454,006.
Langdon, Arthur J., 3,460,742.
Pallotta, Joseph Peter, 3,459,187.
Weck, Friedrich J., to American Potash & Chemical Corporation, mesne. Boron extractant compositions. 3,479,294, 11-18-69, Cl. 252-182.
Weckesser, Ernst: *See—*
Wrigge, Friedrich Wilhelm; and Weckesser, Ernst,3,470,083.
Weckler, Gene P., to Fairchild Camera and Instrument Corporation. Storage mode operation of a photosensor. 3,427,461, 2-11-69, Cl. 250-211.
Weckler, Gene P., to Fairchild Camera and Instrument Corporation. Detector array controlling MOS transistor matrix. 3,465,293, 9-2-69, Cl. 340-166.
Weckler, Gerhard: *See—*
Dursch, Walter; Landauer, Franz; Reuter, Martin; and Weckler, Gerhard,3,433,574.
Wed Enterprises, Inc.: *See—*
Broggie, Roger E.; and Gurr, Robert H., 3,467,026.
Wedco, Inc.: *See—*
Feder, Friedhelm R., 3,428,260.
Feder, Friedhelm R., 3,472,491.
Weddleton, Richard F.: *See—*
Campaigne, Ernest E.; and Weddleton, Richard F.,3,453,287.
Wedekind, Albert D., to Minnesota Mining and Manufacturing Company. Solderless connector for multiple- conductor flat cable. 3,434,093, 3-18-69, Cl. 339-17.
Wedekind, Albert D., to Minnesota Mining and Manufacturing Company. Connector. 3,444,506, 5-13-69, Cl. 339-99.
Wedekind, Norman J.; and Orloff, Daniel L., to Mayer, Oscar, & Co., Inc. Continuous deaerator. 3,464,343, 9-2-69, Cl. 99-272.
Wedell, Hans, to Bohme Chemie Gesellschaft mit beschrankter Haftung. Soap or detergent rinsing agent. 3,481,881, 12-2-69, Cl. 252-142.
Wedell, Hans; and Peist, Rolf, to Bohme Fettchemie G.m.b.H. Washing agents and process for machine washing of dishes. 3,421,940, 1-14-69, Cl. 134-29.
Wedepohl, Leonhard Martin: *See—*
Patrickson, John Brian; Davey, Victor Stanley; and Wedepohl, Leonhard Martin,3,465,208.
Weder, Herbert: *See—*
Schilde, Fritz; Richter, Manfred; Ambrosius, Dietrich; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,459,238.
Schilde, Fritz; Richter, Manfred; Dietrich, Ambrosius; Tille, Manfred; Gunther, Ludwig; Loos, Gunter; Mzyk, Heinrich; Miersch, Siegfried; Haupt, Winfried; Rossel, Wolfgang; Beuchel, Gunter; Erler, Gerhard; and Weder, Herbert,3,464,453.

Wedin, James A.: *See*—
Merritt, James A.; and Wedin, James A.,3,481,428.
Wedin, Thord, to Allmanna Svenska Elektriska Aktiebolaget. Method of circulating a fluid electrolyte in a galvanic cell, for example a fuel cell, and means for performing the method. 3,457,114, 7-22-69, Cl. 136-86.
Wedlake, Cyril J., to Veleron Corporation, The. Visual arts matching charts. 3,474,546, 10-28-69, Cl. 35-28.3
Wedmore, William R., to Automatic Electric Laboratories, Inc. Transistorized exclusive-or comparator. 3,478,314, 11-11-69, Cl. 340-146.2
Weed, John W. S., to Electric Reduction Company of Canada, Ltd. Respacing of electrodes in electrolytic cells for the production of the halates, perhalates or hypohalites of alkali metals. 3,451,906, 6-24-69, Cl. 204-82.
Weed, Seth E., to Vesuvius Crucible Company. Composite sleeve for ladle stopper rods. 3,456,690, 7-22-69, Cl. 138-140.
Weeden, Frank G.; Pope, Gerald R.; Petrosky, Willard L.; and Murphee, Burleigh R., to Dore, John L., Co. Method and means for preventing liner contraction. 3,435,853, 4-1-69, Cl. 138-147.
Weekes, Barret B.: *See*—
Shoemaker, William E.; and Weekes, Barret B.,3,457,493.
Weekley, Jack L. Valve structure. 3,484,075, 12-16-69, Cl. 251-134.
Weekman, Vern W., Jr., to Mobil Oil Corporation. Regulation of catalyst seal leg temperature. 3,464,914, 9-2-69, Cl. 208-174.
Weeks, Richard C., to Campbell Soup Company. Bread package. 3,432,310, 3-11-69, Cl. 99-172.
Weeks, Richard F., to Carson Laboratories, Inc. Motion measuring apparatus. 3,476,483, 11-4-69, Cl. 356-256.
Weeks, Richard F.; and Samodai, Gyula L., to Schlumberger Technology Corporation. Method and apparatus for analyzing logging information. 3,431,552, 3-4-69, Cl. 340-15.5
Weeks, Richard F.: *See*—
Samodai, Gyula L.; and Weeks, Richard F.,3,475,761.
Weeks, Sidney Arthur; Taylor, Raymond Sidney; and Croughan, James, to Taylor Weeks & Partner Limited. Registering printing plates. 3,446,145, 5-27-69, Cl. 101-426.
Weeks, Wyatt J. Line charging and pneumatic conveying apparatus. 3,423,131, 1-21-69, Cl. 302-36.
Weems, Calvin T. Remote amperage control device for electric welders. 3,477,005, 11-4-69, Cl. 318-266.
Weems, Sterling J.; Hinds, John A.; and Mandil, Harry I., to Westinghouse Electric Corporation. Pressure suppressing arrangement for use with a nuclear reactor. 3,423,286, 1-21-69, Cl. 176-37.
Weerens, Arthur: *See*—
Van Eygen, Cyrille; and Weerens, Arthur,3,429,947.
Weesner, William E., to Monsanto Research Corporation. N-(Thiocyanatoalkyl) halophenoxyacylamides. 3,423,451, 1-21-69, Cl. 260-454.
Weesner, William E., to Monsanto Research Corporation. Halogen-containing organic carbonates. 3,452,074, 6-24-69, Cl. 260-463.
Weesner, William E., to Monsanto Research Corporation. Amides. 3,452,093, 6-24-69, Cl. 260-559.
Weesner, William E., to Monsanto Research Corporation. N-[hydrocarbylthioalkyl]halophenoxy- acylamides as herbicides. 3,459,533, 8-5-69, Cl. 71-98.
Weesner, William E., to Research Corporation, mesne. Sulphur containing polyesters. 3,459,787, 8-5-69, Cl. 260-470.
Weesner, William E., to Monsanto Company. Alpha-(1-cyanohydrocarbyloxy)-2-halovinyl phosphate ester nematocide. 3,484,522, 12-16-69, Cl. 424-210.
Weetall, Howard H.: *See*—
Bauman, Albert J.; Weliky, Nrman; and Weetall, Howard H.,3,484,390.
Weeton, John W.: *See*—
Quatinetz, Max; Weeton, John W.; and Herbell, Thomas P.,3,472,709.
Weeton, John W.; Quatinetz, Max; and Orth, Norman W., to United States of America, National Aeronautics and Space Administration. Process for producing dispersion strengthened nickel with aluminum. 3,463,679, 8-26-69, Cl. 148-126.
Weevers, Henry H.: *See*—
Bonsel, Wouter G.; and Weevers, Henry H.,3,425,907.
Wege, Hans: *See*—
Gast, Erich; and Wege, Hans,3,483,812.
Wegehaupt, Karl-Heinrich; Wick, Manfred; and Nitzsche, Siegfried, to Wacker-Chemie G.m.b.H. Siloxane elastomers. 3,464,950, 9-2-69, Cl. 260-37.
Wegematic Corporation: *See*—
Jacobson, David Esriel; and Ek, Stig Yngve, 3,426,684.
Wegener, Edward F.; and Wegener, Thure H. Towing apparatus. 3,420,391, 1-7-69, Cl. 214-86.
Wegener, Erich: *See*—
Schneider, Eugen; and Wegener, Erich,3,437,501.
Wegener, Howard W.: *See*—
Carini, Alexander F.; Wegener, Howard W.; and Boynton, Kenneth G.,3,435,801.
Wegener, Thure H. Winch mechanism. 3,479,895, 11-25-69, Cl. 74-333.
Wegener, Thure H.: *See*—
Wegener, Edward F.; and Wegener, Thure H.,3,420,391.
Wegerich, Anton: *See*—
Friedrichsen, Wilhelm; and Wegerich, Anton,3,429,654.
Weggeland, John H. Film cartridge projector. 3,455,629, 7-15-69, Cl. 352-72.
Weghaupt, Erich: *See*—
Eggemann, Wilhelm; Weghaupt, Erich; and Lambrecht, Dietrich,3,469,127.
Weghorst, Friedrich: *See*—
Baltes, Josef; Weghorst, Friedrich; and Makus Zdzislaw,3,472,816.
Weghorst, Frierich: *See*—
Baltes, Josef; Weghorst, Frierich; and Wechmann, Otto,3,441,577.
Weglarz, Walter P., to Budd Company, The. Method of forming sandwich panels. 3,478,553, 11-18-69, Cl. 72-46.
Weglein, Rolf D.; and Kittoe, Delos T., to Hughes Aircraft Company. Arrangement utilizing phase conditioned harmonically related signals to improve traveling- wave amplifier efficiency. 3,426,291, 2-4-69, Cl. 330-43.
Wegler, Richard: *See*—
Eue, Ludwig; Hack, Helmuth; Westphal, Kurt; and Wegler, Richard,3,472,646.
Wegmann & Co.: *See*—
Erb, Gerhard; and Britzke, Ingo, 3,484,993.
Wegmann, Dorothee: *See*—
Simon, Wilhelm; and Wegmann, Dorothee,3,445,363.
Wegmann, Jacques: *See*—
Stahel, Peter; Wegmann, Jacques; and Ruetimeyer, Bernhard,3,424,543.
Wegmann, Jerome B.; and Graef, John R., to McNeil Corporation. Pump. 3,469,532, 9-30-69, Cl. 103-178.
Wegmann, Lienhard; and Gallo, Mario, to Spectrospin A.G. Nuclear resonance spectrograph. 3,435,333, 3-25-69, Cl. 324-0.5
Wegmuller, Hans E.: *See*—
Bossard, Werner; Favre, Francois; Wegmuller, Hans E.; and Voltz, Jacques,3,471,468.
Wegmuller, Hans E.; and Bossard, Werner, to Geigy, J. R., A.G. Dispersible monoazo dyes. 3,471,467, 10-7-69, Cl. 260-153.
Wegner, Albert: *See*—
Tunstall, Wilfred; and Wegner, Albert,3,422,469.
Weh, Herbert. Electric generators. 3,453,459, 7-1-69, Cl. 310-11.
Wehde, Heinz; and Leiber, Heinz. Hydraulic brake-operation device for vehicles of all types with skidding prevention means. 3,425,751, 2-4-69, Cl. 303-21.
Wehde, Heinz; and Ries, Werner, to Teldix Gesellschaft mit beschrankter Haftung. Twisted bourdon tube. 3,463,011, 8-26-69, Cl. 73-418.
Wehinger, Egon F., to Oliver, Hugh. Exhaust gas treating device. 3,485,039, 12-23-69, Cl. 60-30.
Wehl, Glenn E.; and Welker, Thomas E., to Portage Electric Products, Inc. Creepless snap-acting thermostatic switch. 3,443,259, 5-6-69, Cl. 337-89.
Wehle, Gunther: *See*—
Wagenmann, Rolf; and Wehle, Gunther,3,433,596.
Wehlin, Egon Gote Alf, to Elektriska Svetsningsaktiebolaget. Apparatus for the resistance welding of chain links. 3,426,169, 2-4-69, Cl. 219-51.
Wehling, Karl: *See*—
Berges, Arnold; Wehling, Karl; Rubsamen, Erich; and Wehling, Karl,3,465,282.
Berges, Arnold; Wehling, Karl; Rubsamen, Erich; and Wehling, Karl,3,465,282.
Wehner, Donald Clifford: *See*—
Berenson, Herman; Dornbush, Albert Carl; and Wehner, Donald Clifford,3,432,341.
Wehner, Donald Clifford, to American Cyanamid Company. Method of reducing toxicity of waste streams containing organic thiocyanate compounds. 3,433,737, 3-18-69, Cl. 210-49.
Wehner, George O.: *See*—
Curtze, Edward W.; Wehner, George O.; and Barsom, John M.,3,454,219.
Wehner, Karl-Heinz. Mine roof support units. 3,468,510, 9-23-69, Cl. 248-357.
Wehner, William C., to Moog Industries, Inc. Thrust bearing. 3,455,618, 7-15-69, Cl. 308-233.
Wehr, Clyde W., to Eastman Kodak Company. Zoom telescopic finder. 3,438,689, 4-15-69, Cl. 350-42.
Wehr Corporation: *See*—
Dorsey, Robert James, 3,447,205.
Hinger, William R., 3,477,050.
Spradling, Joseph W., 3,482,504.
Wehr, Georg; Gotze, Gotthold; and Streich, Gerhard. Apparatus for transporting and treating trees. 3,457,975, 7-29-69, Cl. 144-208.
Wehren, Peter H. A., to Erwin Behn Verpackungsbedarf G.m.b.H. Apparatus for filling valve bags with pulverous material. 3,443,609, 5-13-69, Cl. 141-68.
Wehrenberg, Thomas M.: *See*—
Begley, Edward R.; Patrick, Robert F.; and Wehrenberg, Thomas M.,3,470,004.

Wehril, Walter: *See—*
Entschel, Roland; Mueller, Curt; and Wehril, Walter,3,457,260.
Wehrli, Hans Ueli: *See—*
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli,3,428,537.
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli,3,478,068.
Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli,3,483,235.
Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt,3,454,599.
Jeger, Oskar; Wehrli, Hans Ueli; and Schaffner, Kurt,3,484,456.
Wehrli, Walter: *See—*
Auerbach, Guenther; Schneider, Lukas; and Wehrli, Walter,3,422,084.
Entschel, Roland; Mueller, Curt; and Wehrli, Walter,3,459,728.
Wehrmann, Ralph F.; and Lorenz, Roy H., to Fansteel, Inc. Gun barrel liner. 3,442,172, 5-6-69, Cl. 89-16.
Wehrmeister, Herbert L., to Commercial Solvents Corporation. Curvularin containing animal feed for promoting growth and increasing feed efficiency. 3,436,223, 4-1-69, Cl. 99-2.
Wehrmeister, Herbert L., to Commercial Solvents Corporation. Preparation of organic acids. 3,466,308, 9-9-69, Cl. 260-413.
Wehrmeister, Herbert L., to Commercial Solvents Corporation. Production of neo-acids. 3,466,309, 9-9-69, Cl. 260-413.
Wei, Peter H. L.; and Bell, Stanley C., to American Home Products Corporation. 1,2,5-Benzothiadiazepine 1,1-dioxides. 3,453,266, 7-1-69, Cl. 260-239.6
Wei, Peter H. L.; and Bell, Stanley C., to American Home Products Corporation. *p*-Substituted-phenylsulfonyl pyrrolidine derivatives. 3,453,289, 7-1-69, Cl. 260-326.82
Wei, Peter H. L.; and Bell, Stanley C., to American Home Products Corporation. Naphtho [2,1-*e*][1,2,4] thiadiazine 1,1-dioxides. 3,461,122, 8-12-69, Cl. 260-243.
Wei, Peter H. L.; and Bell, Stanley C., to American Home Products Corporation. Fused 2-pyrimidinepropionic acid compounds, related compounds, and the process for their preparation. 3,470,181, 9-30-69, Cl. 260-251.
Wei, Peter H. L.; and Bell, Stanley C., to American Home Products Corporation. 2-(α-Hydroxyalkylidene)thiazolo[2,3-c] [1,2,4] benzothiadiazin-1(2H)-one,5,5-dioxide esters, related compounds and the process for their preparation. 3,475,424, 10-28-69, Cl. 260-243.
Wei, Peter H. L.; and Bell, Stanley C., to American Home Products Corporation. 2-(1,1-Dioxo-2H-1,2,4-benzothiadiazin-3-ylthio) acylacetic acid esters and related compounds. 3,475,426, 10-28-69, Cl. 260-243.
Wei, Peter H. L.: *See—*
Bell, Stanley C.; and Wei, Peter H. L.,3,471,497.
Bell, Stanley C.; and Wei, Peter H. L.,3,475,432.
Wei, Yung-Kang, to Polymer Corporation Limited. Elastomeric polymer. 3,429,863, 2-25-69, Cl. 260-94.3
Weibel, Jaques, to Dorit Chemie-und Handels AG. Protective coating. 3,459,577, 8-5-69, Cl. 117-6.
Weibel, Joseph P., 50% to Costello, Richard J. Heated outdoor garment. 3,443,066, 5-6-69, Cl. 219-527.
Weible, Warren W.: *See—*
Zeller, Robert C.; and Weible, Warren W.,3,451,308.
Zeller, Robert C.; and Weible, Warren W.,3,453,850.
Weibull, Claes Martin, to Ingeniorsfirman Nils Weibull AB. Silo unloader. 3,429,619, 2-25-69, Cl. 302-50.
Weich, Peter J.: *See—*
Buker, Paul S.; Taylor, Donald M.; and Weich, Peter J.,3,466,727.
Weichardt, Heinz H.: *See—*
Davenport, Ralph M., Jr.; Kratzer, Alfred L.; Sapp, Robert W.; Thomas, William T.; and Weichardt, Heinz H.,3,468,660.
Weichbrodt, Maria; and Willmund, Wolf-Dieter, to Henkel & Cie GmbH. Liquid cleaning compositions. 3,459,666, 8-5-69, Cl. 252-137.
Weichel, Ernst. Agricultural vehicle for loading, transporting and unloading of bulk materials. 3,423,921, 1-28-69, Cl. 56-345.
Weichel, Ernst. Self-loading wagon to harnest sugar beets. 3,435,900, 4-1-69, Cl. 171-101.
Weichel, Ernst. Load carrying vehicle having driving engine located with a portion extending into the loading space. 3,451,574, 6-24-69, Cl. 214-519.
Weichel, Ernst. Universal vehicle for use as multi-purpose agricultural working machine. 3,473,679, 10-21-69, Cl. 214-83.24
Weichel, Ernst. Process and apparatus for breaking up a heap of cereal or leaf crop. 3,478,971, 11-18-69, Cl. 241-24.
Weichenrieder, Erich. Street boundary post. 3,421,473, 1-14-69, Cl. 116-63.
Weichman, Roger L.; and Fierce, William L., to Union Oil Company of California, mesne. Process of preparing copolymers from halomethylated aromatic hydrocarbons and conjugated diolefins with Friedel Crafts catalyst. 3,442,882, 5-6-69, Cl. 260-94.2
Weichman, Roger L.; Walsh, John W.; and Fierce, William L., to Union Oil Company of California, mesne. Polymerization of benzene in the presence of oxygen and cupric and aluminum chloride. 3,480,568, 11-25-69, Cl. 260-2.
Weichman, Roger L.: *See—*
Martinek, Thomas W.; Haines, Robert M.; Weichman, Roger L.; and Trainor, Wilbur J.,3,476,687.
Weichsel, Richard H., to Apex Bearings Company, The. Bearing systems. 3,447,844, 6-3-69, Cl. 308-93.
Weichsel, Richard H., to Apex Bearings Company, The. Gas bearings. 3,450,448, 6-17-69, Cl. 308-122.
Weichsel, Richard H., to Apex Bearings Company, The. Thrust bearing. 3,451,731, 6-24-69, Cl. 308-9.
Weichsel, Richard H., to Apex Bearings Company. Air seals. 3,467,454, 9-16-69, Cl. 308-187.1
Weichsel, Richard H., to Apex Bearings Company, The. Gas bearings of the linear motion single plane type. 3,475,065, 10-28-69, Cl. 308-5.
Weichselbaum, Theodore E., to Brunswick Corporation, mesne. Hemolyzing composition. 3,446,751, 5-27-69, Cl. 252-408.
Weichselbaum, Theodore E., to Brunswick Corporation, mesne. Method of separating whole blood. 3,464,890, 9-2-69, Cl. 195-66.
Weichselbaum, Theodore E.; and Varney, Pahilip L., to Biological Research, Inc. Device for sterilizing inoculation needles and loops. 3,436,171, 4-1-69, Cl. 21-85.
Weichselbaum, Theodore E.; and Zmuda, Benjamin D., to Brunswick Corporation. Mounting medium, manufacture and use thereof. 3,467,617, 9-16-69, Cl. 260-33.6
Weicker, Diethard, to VEB Schiffswerft Neptun Rostock. Bulbous bow construction of a vessel. 3,455,262, 7-15-69, Cl. 114-56.
Weidel, Joseph C., to Rohr Corporation. Method and apparatus for making endless reinforced wrapped plastic tubing. 3,441,459, 4-29-69, Cl. 156-195.
Weidel, Robert A.: *See—*
Brewster, Gordon F.; and Weidel, Robert A.,3,481,751.
Brewster, Gordon F.; and Weidel, Robert A.,3,481,752.
Brewster, Gordon F.; and Weidel, Robert A.,3,481,753.
Weideman, John H.: *See—*
Wahl, Franklin W., 3,445,954.
Weiden, Mathias H. J.: *See—*
Payne, Linwood K., Jr.; and Weiden, Mathias H. J.,3,450,745.
Payne, Linwood K., Jr.; and Weiden, Mathias H. J.,3,462,490.
Payne, Linwood K., Jr.; and Weiden, Mathias H. J.,3,466,316.
Payne, Linwood K., Jr.; and Weiden, Mathias H. J.,3,479,405.
Weiden, Otto: *See—*
Schnurrbusch, Karl; Steinbach, Hans-Horst; and Weiden, Otto,3,458,333.
Weidenbach, Willy, to Eastman Kodak Company. Multipart film take-up spool for a camera. 3,456,894, 7-22-69, Cl. 242-74.1
Weidenbaum, Bernhardt: *See—*
Lyons, Mark F.; and Weidenbaum, Bernhardt,3,446,703.
Weidenhammer, James A.; Wroblewski, Edward J.; and Barbeau, Raymond A., to International Business Machines Corporation. Convex-surfaced vacuum controlled air film. 3,465,320, 9-2-69, Cl. 340-174.1
Weidenhammer, James A.: *See—*
Barbeau, Raymond A.; Day, Kelly B., Jr.; and Weidenhammer, James A.,3,420,424.
Weidlich, Erhard: *See—*
v. Sturm, Ferdinand; Nischik, Herbert; and Weidlich, Erhard,3,471,336.
Weidman, Duane C.; and Olds, Jim W. Clear standing adjustable scaffold. 3,472,338, 10-14-69, Cl. 182-82.
Weidman, William H.: *See—*
Ellis, Jarrett R.; and Weidman, William H.,3,453,956.
Weidmann, Siegfried: *See—*
Zaffrann, Albert A.; Balint, Joseph A.; and Weidmann, Siegfried,3,423,719.
Weidmann, Walter: *See—*
Zirngibl, Hans; Brandle, Karl; Beumer, Peter; and Weidmann, Walter,3,485,584.
Weidner, Ralph J.; and Benigno, James, to Kassl Window Company, Inc. Sash lock. 3,434,236, 3-25-69, Cl. 49-176.
Weidner, William C.: *See—*
Miller, Alfred J.; Hinschlager, Rudolf F.; Allan, Stewart; and Weidner, William C.,3,462,135.
Weier, Jacob J. Traction attachments for dual pneumatic tires. 3,435,873, 4-1-69, Cl. 152-182.
Weier, Jerilynn H. Storing phonograph records. 3,430,297, 3-4-69, Cl. 24-17.
Weiertz, Axel Hugo. Stabilizing suspension for a pair of steerable road wheels of automobiles. 3,446,513, 5-27-69, Cl. 280-96.2
Weigand, Bruno. Safety closure. 3,435,975, 4-1-69, Cl. 215-9.
Weigand, Hans, to Deutsche Rhodiaceta AG. Apparatus for widening and loosening continuous artificial fiber. 3,444,592, 5-20-69, Cl. 19-66.
Weigand, John D. Straightening of live human hair with an aqueous acidic glycol solution. 3,482,581, 12-9-69, Cl. 132-7.
Weigel, Jurgen, to Hamburger Flugzeugbau G.m.b.H. Process for electrophoretic deposition using complexing agents. 3,424,663, 1-28-69, Cl. 204-181.
Weigel, Morton L., to Tarzian, Sarkes, Inc. Magnetic tape apparatus with equalization compensating means. 3,439,127, 4-15-69, Cl. 179-100.2
Weigel, Russell V., to General Electric Company. Lamp bridge making method and apparatus. 3,420,646, 1-7-69, Cl. 65-59.

Weigele, Reinhold: *See—*
Hacker, Kurt; Koehl, Erwin; and Weigele, Reinhold,3,461,473.
Weigert, Eberhard; and Tausch, Winfried, to Veb Sachsenring Automobilwerke Zwickau. Suction system for rotary piston internal combustion engines. 3,456,623, 7-22-69, Cl. 123-8.
Weigert, Karl, to Kayser-Roth Corporation. Attachment and process for sewing tabs to garments. 3,477,398, 11-11-69, Cl. 112-104.
Weigert, Wolfgang: *See—*
Fahenstih, Rudolf; and Weigert, Wolfgang,3,441,573.
Weighart, Frederick Gordon. Ultrasonic thickness gauge and flow detector. 3,427,866, 2-18-69, Cl. 73-67.7
Weighart, Frederick: *See—*
Nute, Philip R.; Serabian, Steven; and Weighart, Frederick,3,427,867.
Weight, Donald L.: *See—*
Astin, Edwain R.; and Weight, Donald L.,3,425,308.
Weight, Ormon R.: *See—*
Heninger, Francine L.; and Weight, Ormon R.,3,483,786.
Weightman, Howard L.: *See—*
Darling, Arthur H.; and Weightman, Howard L.,3,453,160.
Weigl , John W.: *See—*
Minett, Ernest Everet; and Weigl , John W.,3,478,659.
Weigl, John W.: *See—*
Martel, Robert W.; Weigl, John W.; and Mammino, Joseph,3,455,240.
Weigl, John W., to Xerox Corporation. Image recording apparatus ink droplet recorder with optical input. 3,484,793, 12-16-69, Cl. 346-75.
Weigl, John W.; and Amidon, Alan B., to GAF Corporation. Xerographic charge transfer process. 3,477,846, 11-11-69, Cl. 96-1.
Weigl, John W.; Forest, Edward; and Keller, Carol K., to Xerox Corporation. Facsimile recording system. 3,480,962, 11-25-69, Cl. 346-1.
Weihe, Clyde R., Jr., to Adamation Inc. Rinsing system for dishwashing machines. 3,484,811, 12-16-69, Cl. 134-58.
Weihnuller, Walter N., to De Muth Steel Products Company. Blower type material feeder. 3,466,095, 9-9-69, Cl. 302-37.
Weikel, Anthony M., to Avco Corporation. Disinfectant dispensing percutaneous connector. 3,447,161, 6-3-69, Cl. 3-1.
Weikel, John H.: *See—*
Lish, Paul Merrill; Weikel, John H.; and Dykstra, Stanley J.,3,435,114.
Weil, Edward D.: *See—*
Ashton, William Eric; and Weil, Edward D.,3,433,877.
Weil, Edward D., to Hooker Chemical Corporation. Side chain halogenated alkylphenyl haloformates. 3,420,868, 1-7-69, Cl. 260-463.
Weil, Edward D., to Hooker Chemical Corporation. Herbicidal mixture and method of use. 3,429,687, 2-25-69, Cl. 71-80.
Weil, Edward D., to Hooker Chemical Corporation. Pesticidal methods employing perhaloindone- carboxylic acid esters. 3,472,937, 10-14-69, Cl. 424-308.
Weil, Edward D.; Dorfman, Edwin; and Linder, Jerome, to Hooker Chemical Corporation. Polyhalo-α-hydroxybenzylphosphonic and-phosphinic compositions in polymers. 3,467,622, 9-16-69, Cl. 260-45.95
Weil, Edward D.; and Greenbaum, Sheldon B., to Hooker Chemical Corporation. Method of controlling pests with pentahalocyclopentadienyl-substituted phosphates. 3,482,019, 12-2-69, Cl. 424-211.
Weil, Edward D.; and Linder, Jerome, to Hooker Chemical Corporation. Control of pathogenic organisms with halogenated phenoxycyclopentenones. 3,443,016, 5-6-69, Cl. 424-331.
Weil, Edward D.; and Schlichting, Hans L., to Hooker Chemical Corporation. Pesticidal uses of thiosubstituted phenols. 3,443,012, 5-6-69, Cl. 424-225.
Weil, Edward D.; and Schlichting, Hans L., to Hooker Chemical Corporation. Vapor phase condensation process. 3,446,859, 5-27-69, Cl. 260-654.
Weil, Edward D.; and Schlicting, Hans L., to Hooker Chemical Corporation. Sulfur-containing carbamate insecticides. 3,461,137, 8-12-69, Cl. 260-327.
Dorfman, Edwin; and Weil, Edward D.,3,459,534.
Eisfeld, Wolfang T.; and Weil, Edward D.,3,444,241.
Newcomer, Jack S.; Weil, Edward D.; and Dorfman, Edwin,3,458,640.
Schlichting, Hans L.; and Weil, Edward D.,3,483,263.
Weil, Frederick M.: *See—*
Fling, John J.; Howard, Shirly L.; and Weil, Frederick M.,3,438,035.
Weil, John W.: *See—*
Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W.,3,454,933.
Weil, Louis; and Bonnin, Bernard, to Commissariat a l'Energie Atomique. Method for fixing superconducting magnetic coils. 3,423,824, 1-28-69, Cl. 29-599.
Weil, Sanford A.; and Staats, William R., to Institute of Gas Technology. Solid-adsorbent air-conditioning device. 3,470,708, 10-7-69, Cl. 62-271.
Weil, Sanford A.: *See—*
Macriss, Robert A.; Weil, Sanford A.; and Rush, William F.,3,458,445.
Weil, Theodore: *See—*
West, Fred William; Gresham, John Thomas; and Weil, Theodore,3,428,715.
Weil, Theodor; and Stange, Hugo, to FMC Corporation. Composition and methods for controlling hypertension with 2-azidoacetophenone oxime. 3,424,843, 1-28-69, Cl. 424-226.
Weil, Theodor; and Stange, Hugo, to FMC Corporation. Method and composition for reducing blood pressure in mammals. 3,469,005, 9-23-69, Cl. 424-226.
Weil, Theodor; and Stange, Hugo, to FMC Corporation. β-Styrenesulfonyl azide and method and composition for combatting hypertension therewith. 3,471,616, 10-7-69, Cl. 424-226.
Weiland, Edward, to Staley, A. E., Manufacturing Company. Slurry make-up system. 3,423,238, 1-21-69, Cl. 127-28.
Weiland, Emil, to Bolkow Gesellschaft mit beschrankter Haftung. Helicopter rotor construction. 3,477,796, 11-11-69, Cl. 416-204.
Weiland, Richard H., to Boeing Company, The. Mechanical power transmission. 3,457,806, 7-29-69, Cl. 74-675.
Weiler, Ernest A. H., to Xerox Corporation. Sheet stripper apparatus. 3,450,402, 6-17-69, Cl. 271-80.
Weiler, Harry H. Adjustment size garment. 3,432,862, 3-18-69, Cl. 2-243.
Weiler, Harry. Golf game and practice device. 3,467,388, 9-16-69, Cl. 273-176.
Weiler, Michael A. Controlled displacement hydraulic lifter. 3,439,661, 4-22-69, Cl. 123-90.
Weill, Paul B.: *See—*
Morris, George V.; and Weill, Paul B.,3,429,666.
Weilnbock, Karl, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Process for the forming of sealed alkaline sintered electrode accumulators having a low self-discharge. 3,424,618, 1-28-69, Cl. 136-6.
Weimels, Eugene L.: *See—*
Little, Charles H.; Kliever, Waldo H.; and Weimels, Eugene L.,3,473,157.
Weimer, Charles L.: *See—*
Fouse, Samuel S.; and Weimer, Charles L.,3,459,874.
Weimer, Charles L.; and Shannon, Bill M., to Westinghouse Electric Corporation. Bus duct. 3,444,311, 5-13-69, Cl. 174-68.
Weimer, Charles L.; and Shannon, Bill M., to Westinghouse Electric Corporation. Bus duct with improved connecting means. 3,459,872, 8-5-69, Cl. 174-71.
Weimer Emery L. Fishing lure having two magnetically influenced spinners. 3,439,443, 4-22-69, Cl. 43-42.12
Weimer, Ralph E.; and Herbert, Ronald M., to Mc Donald's System, Inc. Sanitary method and means for handling, preparing and dispensing fluent food products in and from a suspendible bladder. 3,430,815, 3-4-69, Cl. 222-99.
Weimholt, James E., to United States of America, Navy. Method and apparatus for disseminating fluid from vehicle in flight. 3,437,035, 4-8-69, Cl. 102-6.
Wein, Evelyn H.: *See—*
Albanese, Anthony A.; and Wein, Evelyn H.,3,454,337.
Weinand, Claus; Von Oertzer, Klaus; and Hohmann, Walter, to Farbenfabriken Bayer Aktiengesellschaft. 1,4-Bis-(2'-sulfo-4'-tert-butyl-anilino)-5,8- dihydroxy-anthraquinone. 3,436,410, 4-1-69, Cl. 260-373.
Weinberg, Alan E.: *See—*
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J.,3,444,105.
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J.,3,467,646.
Weinberg, Elliot K.; and Loprest, Frank J., to Thiokol Chemical Corporation. Method of making hydrazinium diperchlorate. 3,450,492, 6-17-69, Cl. 23-85.
Weinberg, Elliott L., to Cosan Chemical Corporation. Phenyl mercury sulfur compounds. 3,426,055, 2-4-69, Cl. 260-433.
Weinberg, Felix Jiri; Howden, Derek; and Cleaver, Denis, to British Titan Products Company Limited. Process for producing metal oxide particles of reduced particle size. 3,434,950, 3-25-69, Cl. 204-164.
Weinberg, Gert: *See—*
Munk, Edmund; Haas, Herbert; and Weinberg, Gert,3,430,806.
Weinberg, Kurt: *See—*
Myerly, Richard C.; and Weinberg, Kurt,3,428,641.
Weinberg, Melvin S.: *See—*
Stein, Bernard; and Weinberg, Melvin S.,3,422,808.
Weinberg, Milton: *See—*
Baehr, William H.; Stein, Bernard J.; and Weinberg, Milton,3,424,988.
Weinberg, Norman L., to Bristol-Myers Company, mesne. Compositions and methods for tranquilization which employ esters of 2-lower alkyl-1,2-dihydro- quinoline-N-carboxylic acids. 3,452,140, 6-24-69, Cl. 424-258.
Weinberg, Seymour B.: *See—*
Braund, Reed J.; and Weinberg, Seymour B.,3,441,679.

Weinberger, Arnold, to International Business Machines Corporation. Multi,word multi-directional random access memory system. 3,466,611, 9-9-69, Cl. 340-172.5

Weinberger, Arnold, to International Business Machines Corporation. Standardized high-density integrated circuit arrangement and method. 3,475,621, 10-28-69, Cl. 307-215.

Weinberger, Lester, to Xerox Corporation. Photoelectrophoretic and xerographic imagine processes employing triphenodioxazines as the electrically photosensitive component. 3,442,781, 5-6-69, Cl. 204-181.

Weinberger, Lester, to Xerox Corporation. Electrophotographic imaging processes employing 2,4-diamino-triazines as the electrically photosensitive particles. 3,445,227, 5-20-69, Cl. 96-1.5

Weinberger, Lester, to Xerox Corporation. Electrically photosensitive particles useful in photoelectrophoretic and xerographic imaging processes. 3,447,922, 6-3-69, Cl. 96-1.5

Weinberger, Lester, to Xerox Corporation. N-substituted-8,13-dioxodinaphtho (2,1-b; 2',3'-d)- furan-6-carboxamides as electrically photosensitive materials in electrophotographic processes. 3,448,028, 6-3-69, Cl. 204-181.

Weinberger, Lester, to Xerox Corporation. Electrophoretic imaging process using 8,13- dioxodinaptho(2,1-b;2',3'-d)-furan-6- carboxamide pigments. 3,448,029, 6-3-69, Cl. 204-181.

Weinberger, Lester; and Kyriakakis, Basil M., to Xerox Corporation. Electrically photosensitive particles useful in photoelectrophoretic and xerographic imaging processes. 3,448,030, 6-3-69, Cl. 204-181.

Weinberger, Royal I.; and Lusch, Nicholas, to Holland-Rantos Company, Inc. Flexible packaging equipment. 3,477,200, 11-11-69, Cl. 53-120.

Weinbrenner, Erwin: *See*—
Knipp, Ulrich; and Weinbrenner, Erwin,3,458,373.

Weinbrenner, Erwin; and Knipp, Ulrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of pneumatic tires. 3,472,715, 10-14-69, Cl. 156-125.

Weinbrenner Shoe Corporation, The: *See*—
Wilmanns, Frederick A.; and Ott, Edward A., 3,470,630.

Weindel, Herman F.: *See*—
Taranto, Frank J.; and Weindel, Herman F.,3,440,194.

Weiner, Albert P., to General Electric Company. Differential speed rotary drive assembly. 3,426,604, 2-11-69, Cl. 74-10.54

Weiner, Albert; and Styner, Anthony A. Expansion joints and waterstops. 3,461,781, 8-19-69, Cl. 94-18.

Weiner, Benjamin F., to Chase Instrument Corporation. Container with removable easel. 3,455,439, 7-15-69, Cl. 206-45.26

Weiner, Bernard A., to United States of America, Agriculture. Polarographic electrode structure. 3,476,670, 11-4-69, Cl. 204-195.

Weiner, Jerome J. Fire escape ladder. 3,480,106, 11-25-69, Cl. 182-96.

Weiner, Melvin. Solar thermionic convertor. 3,467,840, 9-16-69, Cl. 310-4.

Weiner, Nathan; and Marcus, Irving, to Vend-A-Key Corporation. Key-blank dispenser-and-cutter apparatus. 3,442,174, 5-6-69, Cl. 90-13.05

Weiner, Rubin; and Hegart, Gerald R., to Pillsbury Company, The. Dehydrated potatoes having improved whipping properties. 3,447,934, 6-3-69, Cl. 99-207.

Weiner, Sidney: *See*—
Ehrens, Henry; and Weiner, Sidney,3,456,675.
Ehrens, Henry; and Weiner, Sidney,3,480,036.

Weinfurt, William J., to McGraw-Edison Company. Underground distribution system. 3,463,932, 8-26-69, Cl. 307-17.

Weinfurter, Kurt: *See*—
Platz, Rold; Taglieber, Kurt; and Weinfurter, Kurt,3,471,584.

Weinfurter, Rudolf: *See*—
Kellerer, Hermann; Weinfurter, Rudolf; Korber, Ulrich; and Voegtlen, Dieter,3,475,562.

Weinfurther, Donald B.: *See*—
Coleman, Neil A.; and Weinfurther, Donald B.,3,469,088.

Weingaertner, Ernst; Berg, Dieter; and Streckebach, Karl Ernst Christian, to Deutsche Erdol-Aktiengesellschaft. Hard wax and polish compositions containing the same. 3,468,677, 9-23-69, Cl. 106-10.

Weingart, Richard I. N. Portable lock. 3,429,151, 2-25-69, Cl. 70-14.

Weingart, Richard I. N. Portable auxiliary lock. 3,451,235, 6-24-69, Cl. 70-14.

Weingart, Richard I. N. Portable locking device. 3,475,929, 11-4-69, Cl. 70-14.

Weingarten, Deszo: *See*—
Louis, Melis N.; and Weingarten, Deszo,3,436,456.
Louis, Melis N.; and Weingarten, Deszo,3,436,457.

Weingarten, Joseph L.: *See*—
Petry, Gene A.; and Weingarten, Joseph L.,3,429,536.

Weingarten, Morris R.: *See*—
Brill, Frederick W.; and Weingarten, Morris R.,3,477,835.

Weingartner, Bernhard, to Akustische u Kino-Gerate Gesellschaft m.b.H. Electroacoustic transducer with unilateral directional characteristic. 3,436,493, 4-1-69, Cl. 179-115.5

Weinig, Michael KG: *See*—
Betzler, Otto, 3,436,874.

Weininger, Joseph L.: *See*—
Garfinkel, Marvin; and Weininger, Joseph L.,3,429,831.

Weininger, Joseph L.; and Rouse, Thomas O., to General Electric Company. Electrolytic method of removing water from a polar solvent. 3,433,722, 3-18-69, Cl. 204-129.

Weininger, Joseph L.; and Rouse, Thomas O., to General Electric Company. Process of continuously forming bipolar electrodes by the use of electrophoresis. 3,459,651, 8-5-69, Cl. 204-181.

Weinmann, Helmut T.: *See*—
Ching, Wallace K. L.; Cottrell, James E., Jr.; Sherman, John D.; and Weinmann, Helmut T.,3,484,555.

Weinmann, Karl: *See*—
Cramer, Ulrich; Jung, Manfred; and Weinmann, Karl,3,450,417.

Weinmann, Klaus: *See*—
Gluck, Roswitha; Lutz, Edgar; Riess, Horst; and Weinmann, Klaus,3,442,724.

Weinreich, Wolfgang, to Benteler-Werke A.G. Werk Neuhaus. Process and apparatus for electrolytically treating metal tubes. 3,429,787, 2-25-69, Cl. 204-26.

Weinrott, George H., to Urethane Structures, Inc., mesne. Building construction and residential building and method of fabricating thereof on construction site. 3,462,897, 8-26-69, Cl. 52-169.

Weinrotter, Ferdinand; Schmidt, Alfred; Muller, Walter; and Bohler, Walter, to Osterreichische Stickstoffwerke Aktiengesellschaft. Process for the preparation of melamine. 3,432,501, 3-11-69, Cl. 260-249.7

Weinrotter, Ferdinand: *See*—
Muller, Walter; Schweighofer, Johann; and Weinrotter, Ferdinand,3,449,385.

Weinschel, Bruno O., to United States of America, Atomic Energy Commission, under provisions of 42 U.S.C. 2182. Low VSWR measurement system with sliding load and probe. 3,470,462, 9-30-69, Cl. 324-58.

Weinschenk, Albert, to Henkel, Eugen G. Combined shoe heel shaping and lasting machine. 3,448,472, 6-10-69, Cl. 12-10.1

Weinstein, Albert A.; and Weinstein, Willa S. Racing game apparatus including color matched dice and tokens. 3,463,496, 8-26-69, Cl. 273-134.

Weinstein, Bernard; Terry, Daniel H.; and Jensen, Harold S., to American Home Products Corporation. Bleaching tablet. 3,429,821, 2-25-69, Cl. 252-97.

Weinstein, Edward. Powered food product scooper. 3,421,456, 1-14-69, Cl. 107-48.

Weinstein, Elaine. Slip cover type of article carrier. 3,479,085, 11-18-69, Cl. 297-219.

Weinstein, Harold, to International Rectifier Corporation. Semiconductor wafer having low field junction surface. 3,441,811, 4-29-69, Cl. 317-234.

Weinstein, Harold, to International Rectifier Corporation. Adjustable variable voltage responsive two- terminal semiconductor switch device. 3,445,687, 5-20-69, Cl. 307-305..

Weinstein, Harold, to International Rectifier Corporation. Pinch-off shunt for controlled rectifiers. 3,453,508, 7-1-69, Cl. 317-235.

Weinstein, Harold, to International Rectifier Corporation. Axial bias gate for controlled rectifiers. 3,462,620, 8-19-69, Cl. 307-305.

Weinstein, Harold, to International Rectifier Corporation. Electrically insulating-heat conductive mass for semiconductor wafers. 3,462,654, 8-19-69, Cl. 317-234.

Weinstein, Harold; and Ortner, Ernst, to International Rectifier Corporation. Aluminum rectifier base having copper insert. 3,449,506, 6-10-69, Cl. 174-52.

Weinstein, Harold: *See*—
Topas, Benjamin; and Weinstein, Harold,3,445,301.

Weinstein, Harris Wayne. Cover for office machines. 3,454,075, 7-8-69, Cl. 160-238.

Weinstein, Hillel, to Radio Corporation of America. Stress-wave thin-film memory. 3,440,625, 4-22-69, Cl. 340-174.

Weinstein, James D.; Downer, Robert B.; Meddleycott, Clyde E.; and Meddleycott, William R., said Downer, said Meddleycott, Clyde E., and said Meddleycott, William R., assors to Scott Paper Company. Flotation apparatus. 3,456,270, 7-22-69, Cl. 5-348.

Weinstein, Martin; and: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,452,423.
United States of America,National Aeronautics and Space Administration, Administrator, 3,447,233.

Weinstein, Marvin J.; Luedemann, George M.; and Wagman, Gerald H., to Schering Corporation. Antibiotics 15 and methods for their production. 3,458,626, 7-29-69, Cl. 424-116.

Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A., to Schering Corporation. Antibiotics 460 and methods for their production. 3,454,696, 7-8-69, Cl. 424-116.

Weinstein, Miriam. Illuminated manicuring device. 3,478,763, 11-18-69, Cl. 132-75.

Weinstein, Norman W.: *See*—
Goetz, George W.; and Weinstein, Norman W.,3,435,880.
Goetz, George W.; and Weinstein, Norman W.,3,476,172.

Weinstein, Willa S.: *See*—
Weinstein, Albert A.; and Weinstein, Willa S.,3,463,496.

Weinstock, Joseph, to Smith Kline & French Laboratories. 4-(2-Haloalkyl)sulfonyl-1-aryloxyacetic acids. 3,453,323, 7-1-69, Cl. 260-520.
Weinstock, Joseph, to Smith Kline & French Laboratories. N-dihydropyranylmethyl-5-sulfamoylanthranilic acid derivatives. 3,470,155, 9-30-69, Cl. 260-239.6
Weinstock, Joseph: *See*—
Maass, Alfred R.; Weinstock, Joseph; and Wiebelhaus, Virgil D.,3,436,392.
Pachter, Irwin J.; and Weinstock, Joseph,3,426,019.
Pachter, Irwin J.; and Weinstock, Joseph,3,429,878.
Tedeschi, Ralph E.; and Weinstock, Joseph,3,455,942.
Weinstock, Leonard M., to Merck & Co., Inc. Process for preparing 1,2,5-thiadiazoles. 3,440,246, 4-22-69, Cl. 260-302.
Weinstock, Leonard M.; Schaeffer, James C.; and Mulvey, Dennis M., to Merck & Co., Inc. 5-Dechlorination of 3-amino-5,6-dichloropyra- zinoyl compounds. 3,455,919, 7-15-69, Cl. 260-250.
Weinstock, Leonard M.; and Tull, Roger J., to Merck & Co., Inc. Method for preparing 2,6-dichloro-4- nitrotoluene. 3,423,475, 1-21-69, Cl. 260-646.
Weinstock, Leonard M.; Tull, Roger J.; and Pollak, Peter I., to Merck & Co., Inc. Anticoccidial sulfanilamidothiadiazoles. 3,467,653, 9-16-69, Cl. 260-239.95
Weinstock, Leonard M.: *See*—
Tull, Roger J.; Weinstock, Leonard M.; and Davis, Paul,3,484,452.
Weir, Basil, to Teledyne, Inc., mesne. Method for interconnecting thin films. 3,442,003, 5-6-69, Cl. 29-472.1
Weir, G & J., Limited: *See*—
Randell, Forrest Thompson, 3,463,706.
Weir, Henry John : Englandd, to McGraw-Edison Company. Laundry feeding machine. 3,421,756, 1-14-69, Cl. 271-79.
Weir, Henry John. Sheet spreading device. 3,431,665, 3-11-69, Cl. 38-143.
Weir, Henry John. Laundry folding devices. 3,476,379, 11-4-69, Cl. 270-80.
Weir, Henry John. Small piece folder. 3,485,491, 12-23-69, Cl. 270-68.
Weir, James D., to International Rubber Industries, Inc. Machine for working rubber and like plastics. 3,449,793, 6-17-69, Cl. 15-12.
Weir, James F., to Evans, Robert B., doing business as M-B Company. Refuse packer body. 3,462,031, 8-19-69, Cl. 214-518.
Weir, James R.: *See*—
Martin, William R.; and Weir, James R.,3,440,037.
Weir, Niall Galbraith, to Glaxo Laboratories Limited. Preparation for 21-deoxy steroids. 3,440,252, 4-22-69, Cl. 260-397.45
Weir, Richard L. Building block construction. 3,478,482, 11-18-69, Cl. 52-594.
Weir, Robert James; and Hewitt, Anthony David, to Imperial Chemical Industries Limited. Apparatus for measuring shaft rotation. 3,460,033, 8-5-69, Cl. 324-70.
Weir, Robert James; and Hewitt, Anthony David, to Imperial Chemical Industries Limited. Speed detection. 3,465,326, 9-2-69, Cl. 340-263.
Weir, Stanley M., to FMC Corporation. Method of selecting a plurality of articles in a warehouse. 3,424,324, 1-28-69, Cl. 214-152.
Weir, Stanley M., to TMC Corporation. Warehousing system. 3,442,403, 5-6-69, Cl. 214-16.4
Weir, Stanley M., to FMC Corporation. Warehouse system with an article labelling device. 3,447,699, 6-3-69, Cl. 214-16.4
Weir Westgarth Limited: *See*—
Silver, Robert S., 3,457,144.
Starmer, Roy; and Hutchinson, Malcolm, 3,444,049.
Walker, Peter Thomas; and Newson, Ivan Henry, 3,483,093.
Weirich, Henry: *See*—
Weirich, William F.; and Weirich, Henry,3,425,683.
Weirich, Walter; and Kuschke, Gunther, to Gewerkschaft Eisenhutte Westfalia. Walking mine roof support. 3,435,620, 4-1-69, Cl. 61-45.
Weirich, William F.; and Weirich, Henry. Dispensing unit. 3,425,683, 2-4-69, Cl. 270-93.
Weis, George W. Multi-adjustable stepladder and the like. 3,474,883, 10-28-69, Cl. 182-169.
Weis, Martin: *See*—
Graf, Max; and Weis, Martin,3,473,268.
Weis, Rainer L.: *See*—
Fuchs, Dorine K., 3,474,780.
Weis, Rudolf R.: *See*—
Hartbauer, Ellsworth A.; and Weis, Rudolf R.,3,474,593.
Hartbauer, Ellsworth A.; Talbot, Alfred B.; and Weis, Rudolf R.,3,433,136.
Weisang, Edouard J.; and Maurin, Jean D., to Compagnie Francaise de Raffinage. Alkylamide-water distillation and amine neutralization of acid formed. 3,467,580, 9-16-69, Cl. 203-14.
Weisang, Joseph Edouard: *See*—
de Gramont, Arnaud M. J.; Maillot, Philippe J. P.; and Weisang, Joseph Edouard,3,427,357.
Engelhard, Philippe A.; and Weisang, Joseph Edouard,3,444,256.
Engelhard, Philippe A.; and Weisang, Joseph Edouard,3,444,257.
Weisbach, Jerry A.: *See*—
Douglas, Bryce; and Weisbach, Jerry A.,3,455,936.
Douglas, Bryce; and Weisbach, Jerry A.,3,480,637.
Weisbeck, Ralph L., to Unipunch Products, Inc. Punch retainer for unitary cutting assembly. 3,429,212, 2-25-69, Cl. 83-140.
Weisbeck, Roland; Fitzky, Hans-Georg; Simm, Walter; and Heyl, Gerhard, to Agfa-Gevaert Aktiengesellschaft. Process for the preparation of zinc oxide of high photosensitivity. 3,467,497, 9-16-69, Cl. 23-148.
Weisbecker, Joseph A. Game device. 3,428,324, 2-18-69, Cl. 273-153.
Weisberg, Harry: *See*—
Desmond, Timothy J.; Greenburg, Leon S.; and Weisberg, Harry,3,445,735.
Weisberg, Harry, to Radio Corporation of America. Asymmetrical triggering diode composed of three opposite conductivity regions. 3,427,509, 2-11-69, Cl. 317-234.
Weisberg, Leonard R.; and Fischer, Albrecht G., to United States of America, Air Force. Method for preparing electroluminescent light sources. 3,459,603, 8-5-69, Cl. 148-1.5
Weisberg, Robert A.: *See*—
Gainsboro, Nathan R.; and Weisberg, Robert A.,3,482,626.
Weisbord, Leon, to Singer-General Precision, Inc. Single beam force transducer with integral mounting isolation. 3,470,400, 9-30-69, Cl. 310-15.
Weisbord, Leon: *See*—
Riordan, Hugh E.; Weisbord, Leon; and Paros, Jerome M.,3,465,597.
Weisbrod, Marvin: *See*—
Carnazza, Joseph; and Weisbrod, Marvin,3,469,159.
Weisbrod, Stephen P., to API Instruments Company. Time proportioning temperature control system. 3,443,121, 5-6-69, Cl. 307-117.
Weischedel, Richard C., to General Electric Company. Seismic sensor for earth movement caused by a detonation. 3,447,626, 6-3-69, Cl. 181-0.5
Weischedel, Richard C., to General Electric Company. Transistor amplifier circuit having diode temperature compensation. 3,452,281, 6-24-69, Cl. 330-24.
Weischedel, Richard C., to General Electric Company. Amplifier unit combined with externally mounted components for establishing operating characteristics thereof. 3,466,564, 9-9-69, Cl. 330-66.
Weise, Carl A., to McDonnell Douglas Corporation. Thrust reverser roller latch. 3,460,762, 8-12-69, Cl. 239-265.29
Weise, Irvin: *See*—
Schomer, Marion L.; and Weise, Irvin,3,467,357.
Weise, Johannes: *See*—
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang,3,425,330.
Noack, Rolf; Weise, Johannes; and Riedel, Wolfgang,3,456,568.
Zirngibl, Hans; Gerken, Rudolf; Heine, Heinz; and Weise, Johannes,3,486,846.
Weise, Rolf: *See*—
Tilse, Wilhelm; and Weise, Rolf,3,477,223.
Weisenbach, Charles O., to General Signal Corporation. Dual hydrostatic transmission system with power- proportioning control. 3,443,379, 5-13-69, Cl. 60-52.
Weisenbach, George F. Tire display appliances. 3,426,463, 2-11-69, Cl. 40-125.
Weisenberger, Lavern M., to Allied Research Products Incorporated. Metal plating by chemical reduction with amineboranes. 3,431,120, 3-4-69, Cl. 106-1.
Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack, to Squibb, E. R., & Sons Inc.α-Amino-cyclohexadienylakylene-penicillins and cephalosporins. 3,485,819, 12-23-69, Cl. 260-239.1
Weisenborn, Frank Lee: *See*—
Kinney, Roland Walter; Neidleman, Saul Lewis; Weisenborn, Frank Lee; and Schwarz, John Samuel Paul,3,462,487.
Levine, Seymour D.; and Weisenborn, Frank L.,3,452,044.
Neidleman, Saul L.; Kinney, Roland W.; and Weisenborn, Frank L.,3,463,791.
Schwarz, John Samuel Paul; Weisenborn, Frank L.; and Neidleman, Saul Lewis,3,438,999.
Weisenthal, Howard J. High sensitivity omni-frequency microphone. 3,483,940, 12-16-69, Cl. 181-0.5
Weiser, Herman J., Jr.; and Davis, Jerry E., to Procter & Gamble Company, The. Apparatus and method for continuous vapor phase fractionation. 3,486,299, 12-30-69, Cl. 55-67.
Weiser, Kurt: *See*—
Keyes, Robert W.; and Weiser, Kurt,3,440,497.
Weisfeld, Lewis B., to Carlisle Chemical Works, Inc. Reaction products of organotin mercapto acid derivatives and organotin oxide, hydrocarbyl stannoic acids (esters). 3,478,071, 11-11-69, Cl. 260-429.7
Weisfeld, Lewis B., to Carlisle Chemical Works, Inc. ABS resin and lubricant. 3,479,315, 11-18-69, Cl. 260-30.8
Weisfeld, Lewis B.; and Whitehead, Stanley E., to Carlisle Chemical Works, Inc. Preparation of a water-insoluble metal soap prill containing a mixture of two bivalent metal saps. 3,446,749, 5-27-69, Cl. 252-400.

Weisgerber, Thomas W., to General Motors Corporation. Hose and valve stem connector. 3,476,136, 11-4-69, Cl. 137-231.
Weishaupt, Josef, to Linde Aktiengesellschaft. Packing element for fluid columns. 3,430,934, 3-4-69, Cl. 261-94.
Weiskopf, Gunther: *See*—
Flaum, Mitchel; and Weiskopf, Gunther,3,456,565.
Weislogel, Orville E.: *See*—
Buchanan, Russell A.; Russell, Charles R.; and Weislogel, Orville E.,3,442,832.
Weismann, Walter T., to United States of America, Army. High-torque pneumatic-type rotary timer. 3,448,833, 6-10-69, Cl. 188-91.
Weisner, Ralph H., to Wysong & Miles Company. Shear gage. 3,459,087, 8-5-69, Cl. 83-451.
Weispfenning, Walter W.: *See*—
Detwiller, Ronald H.; Ostenson, Donald O.; and Weispfenning, Walter W.,3,483,930.
Weiss, Adolf, to Alpha Press Company. Stroke limiting mechanism for hydraulically operated machine. 3,430,538, 3-4-69, Cl. 91-361.
Weiss, August C. Capacitor-discharge electronic ignition system and a method for adjusting the circuit. 3,448,732, 6-10-69, Cl. 123-148.
Weiss, Bernard M.: *See*—
Mattia, Manlio M.; and Weiss, Bernard M.,3,448,042.
Weiss, Bernard; and Matson, Roland V., to United States of America, Air Force. Balloon puncturing device. 3,451,649, 6-24-69, Cl. 244-99.
Weiss, Bert; and Morino, Ronald, to Photocircuits Corporation. Method for forming electric motor armatures. 3,481,033, 12-2-69, Cl. 29-598.
Weiss, Burton J.: *See*—
Whang, Sang Y.; Bleckner, Edward, Jr.; Weiss, Burton J.; and Payne, Paul E.,3,453,552.
Weiss, Carl D.: *See*—
Calton, Marion R.; and Weiss, Carl D.,3,477,116.
Calton, Marion R.; Oberle, Theodore L.; and Weiss, Carl D.,3,477,117.
Weiss, Dewey S. Double lock trailer coupling. 3,475,037, 10-28-69, Cl. 280-504.
Weiss, Donald Eric; and Bolto, Brain Alfred. Demineralization of water. 3,425,937, 2-4-69, Cl. 210-32.
Weiss, Eberhard, to International Standard Electric Corporation. Method to form hot cathodes. 3,441,438, 4-29-69, Cl. 117-223.
Weiss, Eric A., to Sun Oil Company. Temperature difference detector. 3,435,451, 3-25-69, Cl. 340-413.
Weiss, Ernest, to Bendix Corporation, The. Shaft position limiting device. 3,434,356, 3-25-69, Cl. 74-10.2
Weiss, Ernst: *See*—
Lorenz, Fritz; and Weiss, Ernst,3,476,501.
Weiss, Ernst, to Herberlein Patent Corporation. Cellulose-containing fabrics and process therefor. 3,451,763, 6-24-69, Cl. 8-115.7
Weiss, Erwin M., to Beltone Electronics Corporation. Electroacoustic bone conduction receiver. 3,423,544, 1-21-69, Cl. 179-107.
Weiss, Francis C., to Alliance Machine Company, The. Ship barge handling cranes and beams. 3,428,194, 2-18-69, Cl. 214-15.
Weiss, Francis J., to Ugine Kuhlmann. Method for producing the derivatives of 6-hydroxycaproic acids. 3,428,656, 2-18-69, Cl. 260-343.
Weiss, Francis: *See*—
Isard, Arsene; and Weiss, Francis,3,472,879.
Weiss, Francis; and Bensa, Rena, to Societe d'Electro-Chimie, des Acieries Electrigues d'Ugine. Process for preparation of methylene-2 propanediol-1-3 and its derivatives. 3,423,432, 1-21-69, Cl. 260-347.8
Weiss, Francis; and Isard, Arsene, to Ugine Kuhlmann. Isomerization of 5-methylmetadioxanes. 3,444,238, 5-13-69, Cl. 260-468.
Weiss, Franz; and Bauer, Hermann, to Schmidt, Karl, G.m.b.H. Lubricant coating for friction surfaces and process for producing same. 3,438,789, 4-15-69, Cl. 92-172.
Weiss, Fred W.: *See*—
Merwin, Robert F.; and Weiss, Fred W.,3,476,232.
Weiss, Frederick A. Extensible trailer. 3,443,822, 5-13-69, Cl. 280-34.
Weiss, George, to Du Pont de Nemours, E. I., and Company. Method of laying out, cutting, and sewing a garment to provide minimal stitch pucker. 3,453,662, 7-8-69, Cl. 2-243.
Weiss, Heinz, to International Harvester Company. Infinitely variable hydromechanical transmission. 3,430,438, 3-4-69, Cl. 60-53.
Weiss, Herbert: *See*—
Paul, Bernt; Weiss, Herbert; and Wilhelm, Manfred,3,439,973.
Stein, Werner; Weiss, Herbert; and Koch, Otto,3,452,064.
Weiss, Herbert, to Siemens Aktiengesellschaft. Dipole device for electromagnetic wave radiation in micron wavelength ranges. 3,443,854, 5-13-69, Cl. 350-147.
Wulff, Carl; Stein, Werner; Koch, Otto; and Weiss, Herbert,3,485,856.
Weiss, Hugh R., to Pantasote Company of New York, Inc., The. Shock-absorbing one-piece tray for supporting elongated articles. 3,467,247, 9-16-69, Cl. 206-72.
Weiss, Hugh R., to Pantasote Company of New York, Inc., The. Stackable trays and package formed therefrom. 3,478,867, 11-18-69, Cl. 206-44.
Weiss, Irwin K., to General Motors Corporation. Spherical bearing king pin steering knuckle assembly. 3,479,051, 11-18-69, Cl. 280-96.1
Weiss, Jean-Pierre, to Olsson, Erik, AG. Casting level-control device for a continuous casting installation. 3,456,714, 7-22-69, Cl. 164-154.
Weiss, John C., to Roper, Geo. D., Corporation. Broiler for gas range. 3,422,810, 1-21-69, Cl. 126-41.
Weiss, Johnny C.: *See*—
Torrey, Sumner H.; Dubuque, Donald J.; Weiss, Johnny C.; and Sloan, Norman R.,3,480,000.
Weiss, Joseph Otto, to State of Israel. Voltage regulator and switching system. 3,430,127, 2-25-69, Cl. 323-66.
Weiss, Leonard, to International Business Machines Corporation. Threshold logic switch with a feed-back current path. 3,458,719, 7-29-69, Cl. 307-203.
Weiss, Lyle A. Bulgur process. 3,457,084, 7-22-69, Cl. 99-80.
Weiss, Manny L. Dish washing rack. 3,482,707, 12-9-69, Cl. 211-126.
Weiss, Martin Joseph: *See*—
Church, Robert Fitz Randolph; and Weiss, Martin Joseph,3,459,752.
Church, Robert Fitz Randolph; Kende, Andrew Steven; and Weiss, Martin Joseph,3,438,973.
Remers, William Alan; and Weiss, Martin Joseph,3,444,174.
Remers, William Alan; and Weiss, Martin Joseph,3,455,943.
Schaub, Robert Eugene; and Weiss, Martin Joseph,3,483,236.
Schaub, Robert Eugene; Kissman, Henry Marcel; and Weiss, Martin Joseph,3,440,243.
Weiss, Melvin I.: *See*—
Cruger, Robert W.; Petransky, William E.; and Weiss, Melvin I.,3,433,438.
Szentaszloi, Alexander; and Weiss, Melvin I.,3,461,951.
Weiss, Michael: *See*—
Barry, Richard Henry; and Weiss, Michael,3,427,379.
Weiss, Oscar. Aerial prospecting. 3,462,995, 8-26-69, Cl. 73-28.
Weiss, Paul: *See*—
Small, Samuel N., 3,436,972.
Weiss, Paul C., to Fluid Power Accessories, Inc. Remote control electric actuating device. 3,429,232, 2-25-69, Cl. 91-412.
Weiss, Paul C., to American Bosch Arma Corporation, mesne. Valve control apparatus. 3,434,390, 3-25-69, Cl. 91-51.
Weiss, Robert, to Singer-General Precision, Inc. Vector sensing system. 3,463,909, 8-26-69, Cl. 235-150.25
Weiss, Ronald A.: *See*—
Nagy, Roland L.; and Weiss, Ronald A.,3,471,371.
Weiss, Samuel: *See*—
Hughes, William G.; Weiss, Samuel; and Lambiris, John,3,446,854.
Weiss, Stanley: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,420,978.
Weiss, Verne E.: *See*—
McKown, William L.; Ball, Murray E.; Moen, Rolf; and Weiss, Verne E.,3,450,538.
Weiss, Walter W.: *See*—
Beatenbough, Paul K.; and Weiss, Walter W.,3,455,505.
Weiss, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Carbonyl-halosulfenyl halides and process of preparation. 3,422,452, 1-14-69, Cl. 260-544.
Weissbach, Helmut: *See*—
Klein, Heinz-Gunter; Lang, Konrad; Schmeling, Edith-Luise; and Weissbach, Helmut,3,424,660.
Weissel, Oskar; Raue, Roderich; and Psaar, Hubertus, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of substituted pyrazolones and of monomethine dyestuffs thereof. 3,441,563, 4-29-69, Cl. 260-240.2
Weisselberg, Arnold: *See*—
Anders, Walter; and Weisselberg, Arnold,3,436,520.
Weisselberg, Arnold; and Herfurth, Horst, to Zentralinstitut fur Schweisstechnik der DDR. Self-locking lever system for seam welding devices. 3,436,519, 4-1-69, Cl. 219-126.
Weissenberg, Gustav, to Leitz, Ernst, G.m.b.H. Viewing and observation device. 3,479,512, 11-18-69, Cl. 250-201.
Weissenberg, Ulrich W., to Dow Chemical Company, The. Method of preparing anhydrous magnesium chloride, bromide, and iodide. 3,440,006, 4-22-69, Cl. 23-91.
Weissenberg, Ulrich W., to Dow Chemical Company, The. Dioxanes complexes of lower alkanols and magnesium halides. 3,466,299, 9-9-69, Cl. 260-340.6
Weissermel, Klaus; Fischer, Edgar; and Schott, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Copolyacetals and process for their manufacture. 3,435,006, 3-25-69, Cl. 260-67.
Weissermel, Klaus; Hafner, Karl-Heinz; Gutweiler, Klemens; and Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals

Meister Lucius & Bruning. Process for the manufacture of fluorine- containing copolymers of trioxane. 3,442,865, 5-6-69, Cl. 260-67.
Weissflog, Sieghard; and Muller, Karl-Heinz, to VEB Sachsenring Automobilwerke Zwickau. Rotary piston type of combustion engine. 3,440,929, 4-29-69, Cl. 91-130.
Weissglas, Peter: *See—*
Agdur, Nils Bertil; and Weissglas, Peter,3,470,734.
Weisshaar, Erich; and Spickenreuther, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Semi-conductor rectifier structure having semi- conductor element assembly screwed into place on support base. 3,457,474, 7-22-69, Cl. 317-234.
Weissing, Otto: *See—*
Strom, Bertil; and Weissing, Otto,3,455,064.
Weissman, Bernard. Method for building superstructures on dentition. 3,434,209, 3-25-69, Cl. 32-15.
Weissman, Bernard. Construction of fixed partial dental prosthesis. 3,449,830, 6-17-69, Cl. 32-6.
Weissman, David. Portable speedometer checking device for automotive vehicles. 3,435,657, 4-1-69, Cl. 73-2.
Weissman, Ira, to Varian Associates. High Q radio frequency circuits employing a superconductive layer on a thermally matched aggregate metallic substrate. 3,441,881, 4-29-69, Cl. 333-99.
Weissman, Ira; and Kinter, Malcolm L., to Varian Associates. High Q radio frequency circuit employing a superconductive layer on a porous thermally matched substrate. 3,441,880, 4-29-69, Cl. 333-99.
Weissman, Stanley Norman: *See—*
Whitesel, Joseph Collichio; and Weissman, Stanley Norman,3,463,652.
Patterson, William A.; Schirmer, Henry G.; and Weissman, Stanley N.,3,432,447.
Weissman, Walter: *See—*
Grgurich, Donald A.; Johnston, William K.; and Weissman, Walter,3,446,029.
Weissmann, Peter, to Gebruder Kollisch AG. Pocket lighter. 3,484,178, 12-16-69, Cl. 431-276.
Weisstuch, Aaron: *See—*
Tudor, Sidney; Weisstuch, Aaron; and Davang, Samuel H.,3,447,969.
Weist, Martin: *See—*
Schafer, Heinrich; Henkel, Paul; and Weist, Martin,3,451,766.
Weisz, Herman S.; and Downing, Parker W., to Lowenstein, M., & Sons, Inc. Colored fabric and method of coloring same. 3,447,888, 6-3-69, Cl. 8-69.
Weisz, John J.: *See—*
Satchell, Fred E.; Conklin, Robert M.; and Weisz, John J.,3,445,113.
Weisz, Paul B., to Mobil Oil Corporation. Petroleum process catalyst supported on a molecular sieve zeolite. 3,437,586, 4-8-69, Cl. 208-110.
Weisz, Paul B.: *See—*
Miale, Joseph N.; and Weisz, Paul B.,3,432,568.
Miale, Joseph N.; and Weisz, Paul B.,3,471,412.
Weisz, Robert G.: *See—*
Juveland, Omar O.; and Weisz, Robert G.,3,474,159.
Toy, Leonard E.; and Weisz, Robert G.,3,487,038.
Weisz, Thomas, to U.S. Philips Corporation, mesne. Hysteresis control for a Schmitt trigger circuit. 3,471,718, 10-7-69, Cl. 307-290.
Weisz, William, to Singer Company, The. Skip-stitch mechanism for household sewing machines. 3,433,189, 3-18-69, Cl. 112-158.
Weit, James G., to Ohio Crankshaft Company, The. Over current protector device for induction heating installation. 3,434,010, 3-18-69, Cl. 317-13.
Weits, Ferdinand: *See—*
Zwiep, Theodore C.; and Weits, Ferdinand,3,457,586.
Zwiep, Theodore C.; and Weits, Ferdinand,3,486,187.
Weitz, Hans-Martin: *See—*
Nonnenmacher, Helmut; Weitz, Hans-Martin; and Willersinn, Carl-Heinz,3,478,093.
Weitz, Otto, to Froster, A. J. Hydraulically controlled hitch. 3,425,715, 2-4-69, Cl. 280-479.
Weitzel, Edward W., to Deering Milliken Research Corporation. Tire and method of making it by applying strip of rubber coated continuous tire cord of low extensibility to the carcass in flat form and simultaneously shaping and vulcanizing to final tire shape. 3,422,874, 1-21-69, Cl. 152-361.
Weitzel, Edward W.; and Hamby, Charles H., to Deering Milliken Research Corporation. Treatment of textiles with cross-linkable acrylic polymers and the resulting products. 3,476,581, 11-4-69, Cl. 117-62.
Weitzel, Ezra: *See—*
Scidmore, Wright H.; and Weitzel, Ezra,3,454,322.
Weitzel, Hans; Dinges, Karl; and Rohr, Harry, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of thermoplastic moulding compositions. 3,449,471, 6-10-69, Cl. 260-880.
Weitzman, Barry S.: *See—*
Weitzman, Norman G.; and Weitzman, Barry S.,3,471,942.
Weitzman, Norman G.; and Weitzman, Barry S. Problem and correlated response presentation article of manufacture. 3,471,942, 10-14-69, Cl. 35-9.
Weitzner, Dorothea M. Printed sheet music reading and playing device. 3,424,851, 1-28-69, Cl. 84-1.28
Weitzner, Dorothea M.; and Saulsbury, Laforest S., said Saulsbury assor. to said Weitzner. Camera and sound recording device. 3,439,598, 4-22-69, Cl. 95-12.
Weizenbach, Bauke: *See—*
Fraser, Robert William; Kushnir, Bud William; and Weizenbach, Bauke,3,454,431.
Meddings, Basil; Weizenbach, Bauke; Evans, David John Ivor; and Mackiw, Vladimir Nicolaus,3,469,967.
Weizenkorn, Horst-Heinrich: *See—*
Brockmuller, Wolfgang; Hartlapp, Gerhard; and Weizenkorn, Horst-Heinrich,3,433,585.
Wej-It Expansion Products, Inc.: *See—*
Lerich, Lester, 3,427,919.
Weka Metallbau Ulm, Walter und Kunzli: *See—*
Renner, Eberhard, 3,476,035.
Wekell, John C.; Houle, Clifford R.; and Malins, Donald C., to United States of America, Interior. Unsaturated nitrated esters. 3,420,869, 1-7-69, Cl. 260-467.
Wel-Kids, Inc.: *See—*
Valk, Donald B., 3,428,351.
Welanetz, Frederic P. Nail patch and method of application. 3,425,426, 2-4-69, Cl. 132-73.
Welber, Benjamin: *See—*
Bron, Walter E.; Heller, William R.; and Welber, Benjamin,3,452,332.
Welbourn, Dale K. Game projectiles and support therefor. 3,469,842, 9-30-69, Cl. 273-95.
Welbourn, Dale K. Manual dexterity training device. 3,479,751, 11-25-69, Cl. 35-29.
Welburn, Norman: *See—*
Seagrave, James; and Welburn, Norman,3,486,154.
Welch, Albert B., to LTV Aerospace Corporation. Electrical connection device. 3,486,156, 12-23-69, Cl. 338-1.
Welch Allyn, Inc.: *See—*
Moore, William C.; and Pilgrim, William S., 3,439,978.
Moore, William C.; and Connors, John D., 3,441,340.
Welch, Clark M.: *See—*
Bullock, Joel B.; and Welch, Clark M.,3,459,589.
Welch, Duraine E., Jr., to Bendix Corporation, The. Digital frequency synthesizer eliminating high speed counters. 3,448,401, 6-3-69, Cl. 331-2.
Welch, Edmund F., to United States of America, Atomic Energy Commission. Quick release coupling. 3,468,169, 9-23-69, Cl. 74-2.
Welch, Eldred, to GAF Corporation. Process for the purification of crude 2,5- dichloro-3-nitrobenzoic acid (dinoben). 3,441,603, 4-29-69, Cl. 260-525.
Welch, Elmer Scott, to G & H Products Corporation. Liquid processing system. 3,428,072, 2-18-69, Cl. 137-113.
Welch, Elvin C. Motor with gyrating rotor. 3,452,227, 6-24-69, Cl. 310-82.
Welch, Elvin C.: *See—*
Gamblin, Rodger L.; Lord, Philip A.; Welch, Elvin C.; and Tunis, Cyril J.,3,452,213.
Welch, Foris V., deceased0 (by Welch, Helen O., administratrix). Plastic cap. 3,419,910, 1-7-69, Cl. 2-198.
Welch, Frank J., to Union Carbide Corporation. Preparation of thermoplastic polymers by low temperature polymerization of vinyl monomers. 3,432,484, 3-11-69, Cl. 260-88.7
Welch, Frank J.; and Paxton, Herbert J., Jr., to Union Carbide Corporation. Coordination complexes of vinylphosphine oxides and metal salts, and polymers thereof. 3,422,079, 1-14-69, Cl. 260-80.
Welch, Frank J.: *See—*
Zutty, Nathan L.; Welch, Frank J.; Sullivan, Edward M.; Bryant, George M.; and Walter, Andrew T.,3,437,719.
Welch, Fredrick M., to Allis-Chalmers Manufacturing Company. Rotating biological contactor in sewer. 3,484,836, 12-16-69, Cl. 210-9.
Welch, George D.; and Donahe, Leonard L., to National Gypsum Company. Board perforator and cutter. 3,469,477, 9-30-69, Cl. 83-8.
Welch, Helen O.: *See—*
Welch, Foris V.,3,419,910.
Welch, John W., to American Tank and Steel Corporation. Apparatus for reconcentrating glycol and the like. 3,451,897, 6-24-69, Cl. 202-160.
Welch, Lester M.: *See—*
Tschopp, Lloyd D.; Welch, Lester M.; and Woerner, Rudolph C.,3,474,155.
Welch, Michael Owen: *See—*
Fairfull, Andrew Ewan Spowart; and Welch, Michael Owen,3,449,287.
Welch, Newell G., to Acme Visible Records, Inc. Multiple input, solid state, reversing, motor control with direction lock-out. 3,444,448, 5-13-69, Cl. 318-207.

Welch, Nicholas A.; and Wendt, Harry C., to Emhart Corporation. Blind fastening rivet and method of making same. 3,463,046, 8-26-69, Cl. 85-70.
Welch, Nicholas A.: *See—*
Balducci, Walter O.; and Welch, Nicholas A.,3,477,260.
Welch, Norman Floyd. Easy calculator. 3,481,537, 12-2-69, Cl. 235-69.
Welch, Philip C.: *See—*
Ostling, Edward J.; Gavinski, Frank R.; and Welch, Philip C.,3,451,362.
Welch, Robert F.: *See—*
Ragard, Phillip A.; and Welch, Robert F.,3,435,857.
Welch, Russel A., Sr., 45% to Casaroll, Eugene A., and 5% to Hogue, Paul G. Electric space heater. 3,443,061, 5-6-69, Cl. 219-385.
Welch, Russel A., Sr., 45% to Casaroll, Eugene A., and 5% to Hogue, Paul G. Space heater. 3,443,062, 5-6-69, Cl. 219-365.
Welch Scientific Company, The: *See—*
Schweitzer, Erich J., 3,473,878.
Welch, Stanley B., to General Electric Company. Solid state oven temperature control. 3,428,785, 2-18-69, Cl. 219-501.
Welch, Stanley B., to General Electric Company. Combination infinite heat switch and solid state temperature control. 3,463,905, 8-26-69, Cl. 219-494.
Welch, Thomas Ronald: *See—*
Stern, Robert; Welch, Thomas Ronald; and Sage, John Ashley,3,440,074.
Welch, Walter J., to GAF Corporation. Diazotype materials containing modified starch. 3,460,943, 8-12-69, Cl. 96-75.
Welch, Walter J.; and Tripp, Bert E., to GAF Corporation. Two-component heat developing diazotypes. 3,420,666, 1-7-69, Cl. 96-91.
Welch, William H., to Abbott Laboratories. Infant feeding device. 3,468,446, 9-23-69, Cl. 215-11.
Welcher, Richard Parke, to American Cyanamid Company. Substituted 3-(3'aminopropyl)piperidines and process for preparation. 3,431,267, 3-4-69, Cl. 260-293.
Weld, Foster E., to Bliss, E. W., Company. Annunciator system. 3,430,231, 2-25-69, Cl. 340-409.
Weld, Foster E., to Bliss, E. W., Company. Apparatus and method for translating a nondescript signal into a distinctive recordable signal. 3,435,413, 3-25-69, Cl. 340-147.
Weld, Foster E., to Bliss, E. W., Company. Remote relay control circuit. 3,440,608, 4-22-69, Cl. 340-168.
Weld, Foster E., to Bliss, E. W., Company. Signaling system. 3,448,443, 6-3-69, Cl. 340-287.
Welded Products Company: *See—*
Glass, Henry P., 3,455,291.
Welders, A. I., Limited: *See—*
Millwood, William H.; and Morison, David G., 3,451,309.
Weldes, Helmut Hans Wilhelm; and Netting, David I., to Philadelphia Quartz Company. Paint vehicle. 3,453,122, 7-1-69, Cl. 106-1.
Weldes, Helmut H.; Boyle, Francis A.; and Bobb, John S. Stephen. Continuous process for making silica sols. 3,440,175, 4-22-69, Cl. 252-313.
Welding Engineers, Inc.: *See—*
Rossiter, Paul H., 3,459,121.
Welding Institute, The: *See—*
Coe, Frank R., 3,456,416.
Needham, James C., 3,444,430.
Needham, James C., 3,449,544.
Roberts, Thomas Marmaduke; and Houldcroft, Peter Thomas, 3,460,235.
Welding Research, Inc.: *See—*
Sciaky, David, 3,435,187.
Sciaky, David, 3,437,785.
Sciaky, David, 3,449,543.
Sciaky, David, 3,475,584.
Sciaky, David, 3,484,578.
Weldon, Edward J., Jr.: *See—*
Townsend, Richard L.; and Weldon, Edward J., Jr.,3,475,724.
Weldon, Roger J.; and Myers, John T. Method and apparatus for producing stereoscopic illusions. 3,484,158, 12-16-69, Cl. 352-57.
Weldon Tool Company, The: *See—*
Grussner, John J., 3,473,421.
Weldotron Corporation: *See—*
Anderson, Kelvin G., 3,462,909.
Monaghan, Alfred C., 3,465,489.
Zelnick, Seymour; and Monaghan, Alfred C., 3,429,100.
Weldy, Winfred E.: *See—*
Spurlin, Harold M.; and Weldy, Winfred E.,3,445,442.
Welhoelter, Milton; and Jenkins, Merrill, to Monsanto Company. Clamping system. 3,461,719, 8-19-69, Cl. 73-103.
Welhoelter, Milton; and Jenkins, Merrill, to Monsanto Company. Dynamic viscoelastometer. 3,470,732, 10-7-69, Cl. 73-15.6
Weliky, Nrman: *See—*
Bauman, Albert J.; Weliky, Nrman; and Weetall, Howard H.,3,484,390.
Welin-Berger, Guy John Olof. Filtering bag for brewing coffee and method of making such bag. 3,437,540, 4-8-69, Cl. 156-269.
Welinlok Limited: *See—*
Lawman, William E., 3,468,430.
Welke, Robert J. Portable heating device. 3,432,641, 3-11-69, Cl. 219-433.
Welker, Robert H.: *See—*
Ferguson, Charles W.; and Welker, Robert H.,3,461,615.
Grosskopf, John W., Jr.; Thayer, Arthur G.; and Welker, Robert H.,3,461,624.
Welker, Thomas E.: *See—*
Wehl, Glenn E.; and Welker, Thomas E.,3,443,259.
Well Service Inc.: *See—*
Allen, Richard H., 3,473,609.
Wellard, Charles L.; and Douglass, Walter H., Sr., to American Components Incorporated. Adjustable precision electrical resistor. 3,475,714, 10-28-69, Cl. 338-273.
Wellauer, Edward J.; Hein, Quentin W.; Bade, Alfred G.; and Pokrandt, Glenn C., to Falk Corporation, The. Flexible gland coupling. 3,457,731, 7-29-69, Cl. 64-11.
Wellborn, William W. Bonding diamonds to metal bases. 3,465,416, 9-9-69, Cl. 29-473.1
Wellekens, John F. Locking pins and fittings therefor. 3,464,241, 9-2-69, Cl. 70-91.
Wellen, Larry A., to Carolite Inc. Embossed laminated plastic panel and method of metho% making same. 3,481,818, 12-2-69, Cl. 161-2.
Wellensiek, Gerd: *See—*
Munster, Josef; Wellensiek, Gerd; and Linke, Gunter,3,478,725.
Weller, Albert E.: *See—*
Shoup, Robert W.; White, Roger F.; and Weller, Albert E.,3,464,350.
Weller, Arthur W., to Resina Automatic Machinery Co., Inc. Self-adjusting cap applying mechanism. 3,435,587, 4-1-69, Cl. 53-317.
Weller, Barton L., to Vitramon, Incorporated. Variable resistor-capacitor unit. 3,426,267, 2-4-69, Cl. 323-74.
Weller, Berthold L.: *See—*
Van Eikeren, Hans; and Weller, Berthold L.,3,438,826.
Weller, Charles W., to Bell Telephone Laboratories, Incorporated. Method for alignment of microcircuit devices on substrate. 3,457,639, 7-29-69, Cl. 29-626.
Weller, Dale E.: *See—*
Carlson, George A.; Weller, Dale E.; and Williamson, Shellie O.,3,462,972.
Weller, David C., to Bell Telephone Laboratories, Incorporated. System for phase locking two pulse trains. 3,479,598, 11-18-69, Cl. 325-321.
Weller, Elbert J., to General Electric Company. Drill cutter bit. 3,434,553, 3-25-69, Cl. 175-410.
Weller, Erwin, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic self-cocking shutter. 3,468,234, 9-23-69, Cl. 95-53.
Weller, Otto: *See—*
Wolf, Otto; and Weller, Otto,3,429,426.
Weller, Ronald W.: *See—*
McCain, William B.; and Weller, Ronald W.,3,481,594.
Wellers, Charles A. W.: *See—*
Canonico, Domenic A.; Sakaguchi, Edwin M.; and Wellers, Charles A. W.,3,458,683.
Welles, George M.: *See—*
Tate, Charles R.; and Welles, George M.,3,481,303.
Wellford, Walker L., Jr. Guideline lawn marker. 3,443,727, 5-13-69, Cl. 222-162.
Welling, Charles E.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,481,887.
Wellinga, Kobus: *See—*
Handele, Martin Jacob; Kuipers, Johannes; and Wellinga, Kobus,3,449,497.
Wellington, Frederick C. Portable custodial unit. 3,446,386, 5-27-69, Cl. 220-4.
Wellington, Frederick C.; and Cavanagh, William G. Custodial cart. 3,453,001, 7-1-69, Cl. 280-47.35
Wellmade Metal Products Company: *See—*
Lim, Kun S.; and Bergen, Edward C., 3,473,017.
Wellman, Donald C., to Carrier Corporation. Humidifier. 3,464,400, 9-2-69, Cl. 126-113.
Wellman, Fredrick, to Van-Air Incorporated. Automatic drain device for deliquescent gas dryers. 3,483,673, 12-16-69, Cl. 55-218.
Wellman Incandescent Furnace Company Limited: *See—*
McKeown, Charles George, 3,423,079.
Wellman Industries, Inc.: *See—*
Groce, Homer W., 3,443,286.
Wellman, Lester R. Weaving machine system. 3,446,249, 5-27-69, Cl. 139-11.
Wellman, William E.: *See—*
Cotrupe, Demetrio P.; Wellman, William E.; and Burton, Paul E.,3,446,850.
Wellman, William E.; Burton, Paul E.; and Diana, William D., to Esso Research and Engineering Company. Purification of isophorone by plural stage distillation. 3,462,348, 8-19-69, Cl. 203-28.

Wellman-Lord, Inc.: *See—*
Miller, Leo A.; and Terrana, Jack D., 3,477,815.
Miller, Leo A.; and Terrana, Jack D., 3,485,581.
Teller, Aaron J., 3,470,811.
Wellmann, Gerhard F.: *See—*
Hohmann, Frank G.; Matthias, George D.; Tino, Joseph R.; and Wellmann, Gerhard F.,3,461,491.
Wellons, Charles L. Direct fired waste wood drying apparatus and method. 3,437,324, 4-8-69, Cl. 263-19.
Wellons, Frank W.: *See—*
Harris, Tedric A.; and Wellons, Frank W.,3,447,849.
Wells, Alan, to Hepworth & Grandage Limited. Composite sealing rings. 3,485,504, 12-23-69, Cl. 277-140.
Wells, Alfred J.: *See—*
Swift, Peter; and Wells, Alfred J.,3,421,295.
Wells, Alton R.; and Wells, Robert M. Heating device having a specially positioned control thermostat therein. 3,439,150, 4-15-69, Cl. 219-523.
Wells, Bernie R.; and: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,429,477.
Wells, David R.; Schell, Elmer H.; and Franklin, James W. Wedge form lock and gang forming system. 3,482,813, 12-9-69, Cl. 249-46.
Wells, Donald H., to S&A Electronics, Inc. Double loop antenna array with loops perpendicularly and symmetrically arranged with respect to feed lines. 3,434,145, 3-18-69, Cl. 343-726.
Wells, Edward T.: *See—*
Altier, Vincent A.; and Wells, Edward T.,3,444,121.
Wells, Floyd H.: *See—*
Anderson, Paul G., 3,431,023.
Wells, Frank W.; and Packard, Roger E., to Burroughs Corporation. Data processor with improved program loading operation. 3,427,593, 2-11-69, Cl. 340-172.5
Wells, George W.: *See—*
Abbott, Henry H.; Hohmann, Lawrence A., Jr.; and Wells, George W.,3,420,963.
Wells, Henry B., III: *See—*
Fegan, Richard M.; and Wells, Henry B., III,3,429,112.
Wells, James E. Dispenser having means to dispense articles alternately from a plurality of sources. 3,428,215, 2-18-69, Cl. 221-116.
Wells, Joe S. Means for securing cutters to tools. 3,443,480, 5-13-69, Cl. 90-12.5
Wells, John C.: *See—*
Gugliotti, Louis M., Jr.; and Wells, John C.,3,471,714.
Wells, John D., to Ford Motor Company. Clutch with lever supporter bearing. 3,486,598, 12-30-69, Cl. 192-98.
Wells, John Lee: *See—*
Lehr, John Dalton; and Wells, John Lee,3,471,260.
Wells, Laurence C. Horizontal V-shaped dipole antenna for television reception. 3,478,363, 11-11-69, Cl. 343-802.
Wells, Leon W., to Panopix Research Inc. Film reel drive assembly. 3,446,448, 5-27-69, Cl. 242-55.14
Wells, Leon W., to Panopix Research Inc. Film cartridge holder. 3,454,333, 7-8-69, Cl. 352-72.
Wells, Leon W., to Panopix Research Inc. Film cartridge. 3,458,157, 7-29-69, Cl. 242-55.13
Wells, Leon W., to Panopix Research Inc. Motion picture projector. 3,458,251, 7-29-69, Cl. 352-29.
Wells, Leon W., to Panopix Research Inc. Motion picture projector. 3,458,251, 7-29-69, Cl. 352-29.
Wells, Leon W., to Panopix Research Inc. Pull down mechanism for projection machine. 3,460,888, 8-12-69, Cl. 352-83.
Wells, Leon W., to Panopix Research Inc. Motion picture film. 3,476,469, 11-4-69, Cl. 352-37.
Wells, Leon W.; and Determann, Fritz, to Panopix Research, Inc. Motion picture projector. 3,451,750, 6-24-69, Cl. 352-117.
Wells, Novell E. Multiple use agricultural implement. 3,437,061, 4-8-69, Cl. 111-1.
Wells, Novell E. Adjustable mount for crop-digging wheels. 3,454,099, 7-8-69, Cl. 171-58.
Wells, Novell E. Row finder for row crop harvesters. 3,461,967, 8-19-69, Cl. 171-8.
Wells, Orville C., to Drive-In Theater Manufacturing Company, Inc. Speaker shut-off. 3,484,552, 12-16-69, Cl. 179-1.
Wells, Paul E.; and Davis, John S., to TRW, Inc. Information storage devices. 3,436,813, 4-8-69, Cl. 29-604.
Wells, Phillip R.; and Melnick, Daniel, to Corn Products Company. Process for coating nuts. 3,477,858, 11-11-69, Cl. 99-126.
Wells, Ralph G.: *See—*
Moskowitz, Arthur; Kovach, Curtis W.; and Wells, Ralph G.,3,437,478.
Wells, Robert C.: *See—*
Caggiano, Gerard J.; and Wells, Robert C.,3,426,980.
Wells, Robert M.: *See—*
Wells, Alton R.; and Wells, Robert M.,3,439,150.
Wells, Rodney L.; and Sadle, Alexander, to Allied Chemical Corporation. Improved urea-formaldehyde foams. 3,457,199, 7-22-69, Cl. 260-2.5
Wells, Roy Ernest, to Electra Totalisators Pty. Limited. Aggregating device for use in electrical totalisators and the like. 3,461,278, 8-12-69, Cl. 235-92.
Wells, Sydney Tom: *See—*
Ashpole, Raymond Sidney; and Wells, Sydney Tom,3,451,847.
Wells-Gardner Electronics Corporation: *See—*
Stamatis, Sam P., 3,432,615.
Wellstein, William. Pipe casing side connector. 3,430,697, 3-4-69, Cl. 166-85.
Wellworthy Limited: *See—*
Hill, Harold Taylor; and Law, Douglas Alexander, 3,425,323.
Woolcott, Arthur John, 3,459,253.
Welsch, F. Daniel: *See—*
Petro, Geza, Jr., 3,451,575.
Welsh, Alan B.; and Miller, Larry William, to Kimball Piano & Organ Co. Coincidence circuit and teaching machine for keyboard devices utilizing coincidence circuit and method of operation. 3,456,546, 7-22-69, Cl. 84-478.
Welsh, Alan B.; and West, Roger, to Jasper Electronic Mfg., Corp. Apparatus for making rolls for player pianos and organs. 3,421,403, 1-14-69, Cl. 84-462.
Welsh, Alan B.; and West, Roger T., to Jasper Electronic Mfg., Corp. Electronic organ having perforated roll controlled playing mechanism. 3,422,209, 1-14-69, Cl. 84-1.03
Welsh, George E. Boat propelling unit. 3,440,995, 4-29-69, Cl. 115-25.
Welsh, Harvey W. Frictional brake system. 3,430,737, 3-4-69, Cl. 188-73.
Welsh, Hewitt S., to Clupak, Inc. Methods of making newsprint paper. 3,454,463, 7-8-69, Cl. 162-206.
Welsh, John A.; and Johnson, Frederick H., Jr., to Flow Laboratories, Inc. Method for cell propagation. 3,450,598, 6-17-69, Cl. 195-1.8
Welsh, John A.: *See—*
Dersch, Fritz; and Welsh, John A.,3,420,664.
Dersch, Fritz; and Welsh, John A.,3,447,925.
Rauch, Emil B.; and Welsh, John A.,3,428,629.
Welsh, Joseph P.: *See—*
De Haas, Thijs; Gray, Martin B.; and Welsh, Joseph P.,3,447,085.
Welsh Manufacturing Company: *See—*
Lindblom, Frank W., 3,425,774.
Newcomb, William E., 3,430,263.
Newcomb, William E., 3,440,661.
Northup, Joseph A., Jr., 3,444,560.
Welsh, Neil R., to Telonic Industries, Inc. Sweep generator having automatically controlled center frequency. 3,427,535, 2-11-69, Cl. 324-57.
Welsh Panel Company: *See—*
Buckley, Lawrence G., 3,425,303.
Welsh, Paul J.: *See—*
Lewis, Marvin; and Welsh, Paul J.,3,475,232.
Welsh, Robert J., to Churchill Machine Tools Co., Limited, The. Grinding machines. 3,456,394, 7-22-6, Cl. 51-165.
Welsh, Tom. Plug-in gas receptacle. 3,474,810, 10-28-69, Cl. 137-75.
Welsh, William M.; and Atkins, Bobby L., to Dow Chemical Company, The. Biological specimen in a cross-linked water swellable acrylamide type resin and the incorporation of the specimen therein. 3,428,470, 2-18-69, Cl. 117-3.
Welshof, Hans-Heinrich: *See—*
Geisthoff, Hubert; Welshof, Hans-Heinrich; and Grosse-Entrup, Hubert,3,470,712.
Welstead, William J., Jr.: *See—*
Helsley, Grover C.; and Welstead, William J., Jr.,3,424,760.
Lunsford, Carl D.; and Welstead, William J., Jr.,3,455,941.
Welt, David I. Camera lock for connecting a camera to tripod. 3,423,056, 1-21-69, Cl. 248-187.
Welte, Robert F.: *See—*
Cushman, Le Roy T.; Wu, Joseph C.; and Welte, Robert F.,3,487,313.
Welter, Clarence J., to Diamond Laboratories, Inc. Indirect passive immunization against transmissible gastroenteritis virus in nursing piglets at birth by active immunization of sows prior to farrowing with transmissible gastroenteritis vaccine and method of producing the same. 3,479,430, 11-18-69, Cl. 424-89.
Welter, Neil E., to Motorola, Inc. Time delay measurements. 3,461,452, 8-12-69, Cl. 343-12.
Weltha, Marvin D.: *See—*
De Long, Vincent R.; Durspek, William J., Jr.; and Weltha, Marvin D.,3,452,293.
Welti, Arno, to Albiswerk Zurich A.G. Apparatus for controlling a moving self-guiding object in order to prevent a collision. 3,434,141, 3-18-69, Cl. 343-6.
Welton, Charles L., 1/3 to Litzenberger, Al, and 1/3 to Litzenberger, Carl R. Releasable mooring cable. 3,467,046, 9-16-69, Cl. 114-230.
Welton, Charles L. Adjustable curb bit. 3,478,493, 11-18-69, Cl. 54-7.

Weltronic Company: *See*—
Dick, Richard W., 3,450,901.
Welty, Albert B., Jr., to Esso Research and Engineering Company. Combustion process for coal fired boilers. 3,463,599, 8-26-69, Cl. 431-2.
Welty, Albert B., Jr.; and Hulse, Stewart H., to Esso Research and Engineering Company. Process for the utilization of high sulfur heavy oil stocks. 3,451,923, 6-24-69, Cl. 208-211.
Welty, Albert B., Jr.; Johnson, Russell R.; and Atwood, Glenn A., to Esso Research and Engineering Company. Process and apparatus for the conversion of So_2 in flue gas to sulfur. 3,476,513, 11-4-69, Cl. 23-225.
Welty, Frank, to Vendo Company, The. Method and apparatus for freezing and dispensing slush carbonated beverages. 3,468,137, 9-23-69, Cl. 62-69.
Welty, Joseph Melvin, to Teledyne, Inc. Junction capacitor. 3,456,166, 7-15-69, Cl. 317-234.
Welty, Joseph M., to Teledyne, Inc., mesne. Method of forming a field effect transistor. 3,472,710, 10-14-69, Cl. 148-175.
Welty, Lloyd G.: *See*—
Scarabello, Bruno U.; Perez, Emilio A.; Welty, Lloyd G.; and Sluter, Simon J.,3,428,054.
Welty, Richard O.; and Mader, George E., Jr., to Phillips Petroleum Company. Motor control circuit utilizing a voltage controlled rectifier. 3,439,622, 4-22-69, Cl. 103-35.
Welty, Richard O.: *See*—
Thornhill, William J.; and Welty, Richard O.,3,467,905.
Welvo N.V.: *See*—
Van Elten, Gerrit J., 3,467,267.
Welwyn Electric Limited: *See*—
Canegallo, Giovanni, 3,469,227.
Welz, Wilbur C., to Schlumberger Technology Corporation, mesne. Methods and apparatus for investigating earth for- mations including adjusting the potential distri- bution in an axial direction through a borehole. 3,452,269, 6-24-69, Cl. 324-10.
Welzel, Herbert; and Bachmann, Heinz, to VEB Pentacon Dresden Kamera- und Kinowerke. Film take-up spool device for cameras. 3,465,657, 9-9-69, Cl. 95-31.
Welzen, Joseph A., to McDonnell Douglas Corporation. Flap track roller support. 3,438,599, 4-15-69, Cl. 244-42.
Wemac Company: *See*—
Kallel, Allen; and Mufich, Frank J., 3,423,065.
Weman, Per Olaf, to Sigmatex AG. Automatic belt winder for safety belts. 3,476,333, 11-4-69, Cl. 242-107.4
Wembley, Inc.: *See*—
Gouner, Aubrey L., 3,462,865.
Wemple, Stuart H.: *See*—
Kahng, Dawon; and Wemple, Stuart H.,3,443,041.
Wemyss, William Alexander, to Rhodes, B., & Son Limited. Fluid flow meters. 3,429,182, 2-25-69, Cl. 73-229.
Wen, Cheng P., to RCA Corporation. Laser color control. 3,487,329, 12-30-69, Cl. 331-94.5
Wen, Lian-Tong. Hypersonic cooling device. 3,470,703, 10-7-69, Cl. 62-86.
Wen Products, Inc.: *See*—
Anton, Nicholas T.; and Daughetee, Lew H., 3,434,247.
Wenckus, Joseph F.: *See*—
Bablouzian, Leon M.; Castonguay, Roger A.; and Wenckus, Joseph F.,3,477,644.
Wenczler & Heidenhain, Firma: *See*—
Wogatzke, Horst, 3,487,399.
Wenda, Raymond N.: *See*—
Lenzen, Leo W.; Olsen, Norman G.; and Wenda, Raymond N.,3,480,120.
Wende, Price T.: *See*—
Belasco, Melvin; Howeth, Bobby W.; Martin, David D.; and Wende, Price T.,3,468,659.
Wendel, Gunter; and Enders, Fritz, to Metallgesellschaft Aktiengesellschaft. Evaporation cooler. 3,483,674, 12-16-69, Cl. 55-267.
Wendel, Hartmut W. G.: *See*—
Sattler, Wolf B.; Voss, Albert Walter; and Wendel, Hartmut W. G.,3,440,225.
Wendel, Martin M.: *See*—
Fletcher, David M.; and Wendel, Martin M.,3,475,118.
Carl, Wolfgang; Wendel, Martin; and Reichle, Alfred,3,424,609.
Wendelin, Roland: *See*—
Hoffmann, Manfred; Wendelin, Roland; and Katscher, Erich,3,467,897.
Wendell, Charles B.; Jordan, Merrill E.; Burbine, William G.; and Shelvey, Richard B., to Cabot Corporation. High velocity process for making carbon black. 3,443,901, 5-13-69, Cl. 23-209.4
Wenderott, Berthold, to Vereinigte Deutsche Metallwerke AG. Method for improvement of nickel-chromium and nickel-chromium-iron alloys. 3,434,891, 3-25-69, Cl. 148-13.
Wendland, George H.: *See*—
Hegland, Norval A.; and Wendland, George H.,3,472,206.
Wendland, John William. Rotatable game disc. 3,451,679, 6-24-69, Cl. 273-115.
Wendland, Paul H., to Hughes Aircraft Company. Image transducing system employing reverse biased. 3,423,623, 1-21-69, Cl. 315-10.
Wendland, Paul H., to Hughes Aircraft Company. Silicon photodiode having folded electrode to increase light path length in body of diode. 3,444,381, 5-13-69, Cl. 250-211.
Wendlandt, Hans George: *See*—
Reichert, Otto; Heuer, Kurt; Grotjahn, Heinz; and Wendlandt, Hans George,3,420,814.
Wendler, Friedrich: *See*—
Stenger, Herbert; Stroesner, Manfred; and Wendler, Friedrich,3,442,454.
Wendler, John C., to Acme-Danneman Company, Inc. Holder for positioning die-set bearing parts. 3,434,760, 3-25-69, Cl. 308-4.
Wendler, Kenneth T.: *See*—
Wittner, Eugene; and Wendler, Kenneth T.,3,432,433.
Wendler, Norman L.: *See*—
Hoffsommer, Robert D., Jr.; Taub, David; and Wendler, Norman L.,3,454,656.
Kuo, Chan Hwa; Taub, David; and Wendler, Norman L.,3,449,380.
Kuo, Chan-Hwa; Taub, David; and Wendler, Norman L.,3,472,881.
Wendler, Norman L., to Merck & Co., Inc.Method for preparing 5-(3-aminopropylidene)-5H- dibenzo-[a,d]-10,11-dihydrocycloheptenes. 3,442,949, 5-6-69, Cl. 260-570.8
Wendler, Norman L., to Merck & Co., Inc.2,3-Epoxypropylidene derivative of 5H-dibenzo [a,d]-10,11-dihydrocycloheptenes. 3,452,009, 6-24-69, Cl. 260-240.
Wendler, Norman L., to Merck & Co., Inc.Method for the production of 5-γ-hydroxy- propylidene-substituted dibenzocycloheptenes. 3,474,150, 10-21-69, Cl. 260-618.
Wendler, Norman L.; and Slates, Harry L., to Merck & Co., Inc. Process for the preparation of 21-phosphate steroids. 3,487,077, 12-30-69, Cl. 260-239.55
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa, to Merck & Co., Inc. Processes for preparing nicotinonitrile. 3,435,044, 3-25-69, Cl. 260-294.9
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa, to Merck & Co., Inc. Method of preparing nicotinamide and novel intermediates therefore. 3,441,568, 4-29-69, Cl. 260-294.9
Wendler, Norman L.; Taub, David; and Kuo, Chan Hwa, to Merck & Co., Inc. Process for preparing nicotinamide. 3,450,706, 6-17-69, Cl. 260-295.5
Slates, Harry L.; and Wendler, Norman L.,3,423,302.
Taub, David; Wendler, Norman L.; and Slates, Harry L.,3,461,144.
Taub, David; Wendler, Norman L.; and Slates, Harry L.,3,485,854.
Wendler, Robert A.: *See*—
Amatruda, Joseph A., 3,457,568.
Wendmoller & Holscher: *See*—
Achelpohl, Fritz, 3,446,121.
Wendt, Alfred,: *See*—
Bininda, Norbert; and Wendt, Alfred,3,432,621.
Wendt, Arthur S., to HCA Food Corporation. Process for treating clams. 3,471,300, 10-7-69, Cl. 99-111.
Wendt, David W.; Harbeck, Charles L.; and Sellon, Raymond N., Jr., to Stolper Industries, Inc. Cab and roll bar. 3,450,430, 6-17-69, Cl. 296-28.
Wendt, Frau Alfred: *See*—
Bininda, Norbert; and Wendt, Alfred,3,432,621.
Wendt, Gerhard R.: *See*—
Ledig, Kurt W.; and Wendt, Gerhard R.,3,471,478.
Ledig, Kurt W.; and Wendt, Gerhard R.,3,479,341.
Wendt, Gerhard R., to American Home Products Corporation. Oxocycloalkylideneamino benzoic acids. 3,475,487, 10-28-69, Cl. 260-518.
Wendt, Gerhard R.; and Ledig, Kurt W., to American Home Products Corporation. Pyrazolo quinoxalines. 3,431,262, 3-4-69, Cl. 260-250.
Wendt, Gerhard R.; and Ledig, Kurt W., to American Home Products Corporation. Steroidal nitrate esters. 3,452,061, 6-24-69, Cl. 260-397.5
Wendt, Gerhard R.; and Ledig, Kurt W., to American Home Products Corporation. 13-Alkyl-17-[bis(2-hydroxyethyl) amino]-gon-4-en-3- ones, dinitrates. 3,458,541, 7-29-69, Cl. 260-397.4
Wendt, Gerhard R.; and Ledig, Kurt W., to American Home Products Corporation. Cyclopentanedione derivatives. 3,458,564, 7-29-69, Cl. 260-518.
Wendt, Gerhard R.; and Ledig, Kurt W., to American Home Products Corporation. 3,4-Dihydro-2-quinoxalinol-6-carboxylic acid derivatives. 3,479,347, 11-18-69, Cl. 260-240.
Wendt, Gerhard R.; and Ledig, Kurt W., to American Home Products Corporation. Cyclopentaquinoxaline compounds. 3,485,837, 12-23-69, Cl. 260-250.
Wendt, Harry C., to General Electric Company. Gyroscope having means for preventing gimbal lock errors. 3,470,751, 10-7-69, Cl. 74-5.2
Wendt, Harry C.: *See*—
Hildebrand, George L.; and Wendt, Harry C.,3,470,752.
Welch, Nicholas A.; and Wendt, Harry C.,3,463,046.
Wendt, Harvey W., to National Twist Drill & Tool Co., mesne. Tap having a flexible shank portion. 3,456,272, 7-22-69, Cl. 10-141.

Wendt, Heinz; and Schmitz, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing alkene-sulfonates. 3,461,159, 8-12-69, Cl. 260-513.
Wendt, John A.; and Borris, Ralph J., to Magnaflux Corporation. Integrator alarm system. 3,462,616, 8-19-69, Cl. 307-246.
Wendt, Karl R. Power system for television receivers. 3,461,232, 8-12-69, Cl. 178-7.3
Wendt, Otto Bruno, to American Photocopy Equipment Company. Method of forming a lithographic plate by treating silver halide with a terminal ethynyl compound to form an ink receptive image area. 3,454,398, 7-8-69, Cl. 96-33.
Wendt, Paul H., to Pacific Clay Products. Pipe coupling. 3,430,989, 3-4-69, Cl. 285-110.
Wendt, Rudolf: *See—*
Limberger, Walter; and Wendt, Rudolf,3,450,535.
Wendt, Willard L. Laundry machine. 3,465,549, 9-9-69, Cl. 68-10.
Wendtlandt, Wolf: *See—*
Hollinger, Roderich; and Wendtlandt, Wolf,3,433,804.
Hollinger, Roderich; and Wendtlandt, Wolf,3,441,602.
Wenger, Charles B.: *See—*
Jones, Stanley C.; Sanders, Laurence R., Jr.; Tosch, William C.; and Wenger, Charles B.,3,477,511.
Wenger Corporation: *See—*
Wenger, Jerry A.; and Urch, Harvey M., 3,435,909.
Wenger, Courtney H.: *See—*
Cooper, Ralph F.; and Wenger, Courtney H.,3,485,700.
Wenger, Friedrich: *See—*
Maahs, Paul; Matthies, Hans-Georg; and Wenger, Friedrich,3,477,094.
Martin, Wolfgang; Linge, Hermann; Hendus, Hans; and Wenger, Friedrich,3,434,278.
Wenger, Harvey M., to DCA Corporation, mesne. Drying and pulverizing device. 3,460,768, 8-12-69, Cl. 241-17.
Wenger, Jerry A.; and Urch, Harvey M., to Wenger Corporation. Sound reflecting structure. 3,435,909, 4-1-69, Cl. 181-30.
Wenger, Joachim: *See—*
Augustin, Johann; Wenger, Joachim; Reichardt, Manfred; and Spiegler, Ewald,3,459,890.
Wenger, Luke D.: *See—*
Glick, Roy Victor; and Wenger, Luke D.,3,455,314.
Wenger, Max, to Maschinenfabrick Beninger A.G.,. Sizing machine. 3,419,946, 1-7-69, Cl. 28-28.
Wenger, Max, to Maschinenfabrik Bennenger AG. Yarn field distribution apparatus. 3,478,400, 11-18-69, Cl. 28-28.
Wengerd, Robert L. Fluid motor rotary actuator. 3,444,784, 5-20-69, Cl. 91-413.
Wengrzik, Michael: *See—*
Lobbe, Armin; and Wengrzik, Michael,3,445,138.
Wenham, Douglas Lee, to Plastic Products Limited. Milk yield meter. 3,481,197, 12-2-69, Cl. 73-202.
Wennberg, Karl Fredrik, to AGA Aktiebolag. Breathing apparatus with pressure reduction warning device. 3,478,740, 11-18-69, Cl. 128-146.4
Wennberg, Olov Carl Gustav, to Wennbergs, C. J., Mekaniska Verkstad, AB. Apparatus for withdrawing suspension rods from cathode plates. 3,479,721, 11-25-69, Cl. 29-211.
Wennbergs, C. J., Mekaniska Verkstad, AB: *See—*
Wennberg, Olov Carl Gustav, 3,479,721.
Wennekes, Cornelis Maria: *See—*
Postmes, Antonius Josephus Marie Francois; and Wennekes, Cornelis Maria,3,474,918.
Wenner, Hans. Dispensing apparatus for stacked objects, such as newspapers. 3,438,546, 4-15-69, Cl. 221-215.
Wenner, Wilhelm: *See—*
Gibas, John Thaddeus; Lee, Hsi Lin; and Wenner, Wilhelm,3,457,266.
Wenner, Wilhelm; and Uskokovic, Milan Radoje, to Hoffmann-La Roche Inc. Novel 4,1-benzothiazepin-2(1H)-ones and 4,1 benzothiazepines. 3,463,774, 8-26-69, Cl. 260-239.3
Wenner, Wilhelm; and Uskokovic, Milan Radoje, to Hoffmann-La Roche Inc. 1-Substituted 4,1-benzothiazepin-2(1H)-ones and 4,1-benzothiazepines. 3,485,824, 12-23-69, Cl. 260-239.3
Wennerberg, Fritz J., to Alfa-Laval AB. Heat exchange plate. 3,438,435, 4-15-69, Cl. 165-167.
Wennerberg, Fritz Johan; and Gullaksen, Jarl Eilif, to Alfa-Laval AB. Apparatus for automatically cleaning an endless pipe. 3,425,083, 2-4-69, Cl. 15-104.06
Wennerlund, Eric; and Lundback, Sven, to Allmanna Svenska Elektriska Aktiebolaget. Method of drying objects such as electrical machines and electrical insulating material. 3,430,351, 3-4-69, Cl. 34-5.
Wennerstrom, Erling G.: *See—*
Callahan, Francis J., Jr.; and Wennerstrom, Erling G.,3,486,775.
Wennik, Lawrence Paul; and Scott, Phillips Brooks, to RCA Corporation. Electrical neuron circuit that includes an operational amplifier. 3,476,954, 11-4-69, Cl. 307-201.
Wenny, Daniel H., Jr.: *See—*
Gould, Harold L. B.; and Wenny, Daniel H., Jr.,3,422,407.
Wenrich, Carl M.; and Downs, Bernard W. Stud welding gun having cold-seating control. 3,456,090, 7-15-69, Cl. 219-98.
Wentworth, James A.: *See—*
Durocher, Hector R.; Wentworth, James A.; and Baer, Ralph H.,3,433,442.
Wentworth, Theodore O.; and Anderson, Clyde G., to Vulcan-Cincinnati, Inc. Process for the purification of methanol by extractive distillation and plural stage distillation recovery. 3,442,770, 5-6-69, Cl. 203-25.
Wentworth, Theodore O.; and Anderson, Clyde G., to Vulcan-Cincinnati, Inc. Multiple zone apparatus for the processing of fluids having interzone fluid mixing and redistribution features. 3,480,407, 11-25-69, Cl. 23-288.
Wentworth, Theodore O.; and Nisbet, Lawrence W., Jr., to Allied Chemical Corporation, mesne. Method for the decomposition and evaporation of urea synthesis effluent. 3,471,558, 10-7-69, Cl. 260-555.
Wentz, Charles Alvin, Jr., to Phillips Petroleum Company. Production of high molecular weight olefins. 3,457,322, 7-22-69, Cl. 260-683.15
Wentz, John L., to Westinghouse Electric Corporation. Electro-optical light modulation means using birefringent crystals. 3,429,636, 2-25-69, Cl. 350-160.
Wentz, John L., to Westinghouse Electric Corporation. Non-reciprocal optical device. 3,429,637, 2-25-69, Cl. 350-160.
Wentz, John L., to Westinghouse Electric Corporation. Polarization independent phase shifter for optical frequencies. 3,460,885, 8-12-69, Cl. 350-160.
Wentz, John L.: *See—*
Smith, Richard G.; and Wentz, John L.,3,482,185.
Wenz, Herbert; and Jehle, Fritz, to Pfagg, G. M., AG. Automatic motion stoppage mechanism for zigzag sewing machines. 3,455,259, 7-15-69, Cl. 112-219.
Wenzel, Alfred J.; and Hantel, Alwin K., to Massey-Ferguson G.m.b.H. Twine retainer for knotter. 3,467,424, 9-16-69, Cl. 289-13.
Wenzel, Charles; and Friedman, Howard K., to Geoscience Instruments Corporation. Rotary basket processing apparatus. 3,428,059, 2-18-69, Cl. 134-140.
Wenzel, Erickson Wey. Snow scraper. 3,483,643, 12-16-69, Cl. 37-53.
Wenzel, Guss E.: *See—*
Cree, David; and Wenzel, Guss E.,3,434,064.
Wenzel, H., Tent & Duck Company: *See—*
Sherman, Alan E., 3,471,007.
Wenzel, Werner: *See—*
Schenck, Hermann; and Wenzel, Werner,3,431,594.
Schenck, Hermann; and Wenzel, Werner,3,433,625.
Schenck, Hermann; and Wenzel, Werner,3,476,651.
Schenck, Hermann; Wenzel, Werner; and Block, Franz-Rudolf,3,469,969.
Wenzler, Roy F. Material spreader means. 3,463,358, 8-26-69, Cl. 222-105.
Werbel, Burton: *See—*
Crane, Everett D.; and Werbel, Burton,3,430,569.
Werber, Frank X.; and Marans, Nelson S., to Grace, W. R., & Co. Ultraviolet light stabilized polyvinyl chloride containing nickel complexes. 3,483,160, 12-9-69, Cl. 260-45.75
Werda, Konrad, to Lucas, Joseph, (Industries) Limited. Means for making an electrical connection to a flexible printed circuit. 3,476,901, 11-4-69, Cl. 200-166.
Werding, Winfried Joseph. Dental care apparatus. 3,440,680, 4-29-69, Cl. 15-321.
Werffeli,Hermann, to Maschinenfabrik Schweiter AG. Yarn monitoring system. 3,458,912, 8-5-69, Cl. 28-64.
Werke AG: *See—*
Bresslein, Helmut; and Korte, Klaus, 3,459,371.
Werkman, Thijs Willem: *See—*
Barnish, Philip; Stelwagen, Jan; and Werkman, Thijs Willem,3,452,803.
Werkspoor N.V.: *See—*
Enting, Jannes, 3,469,855.
Jager, Sybout, 3,467,304.
Werkzeugmaschinenfabrik Adolf Waldrich: *See—*
Stark, Friedrich, 3,454,136.
Werkzeugmaschinenfabrik Gildemeister & Comp., AG: *See—*
Scholz, Walter, 3,458,209.
Spur, Guenter, 3,423,812.
Werkzeugmaschinenfabrik Oerlikon Buhrle & Co.: *See—*
Brieger, Hans, 3,473,434.
Keller, Siegfried; and Blaser, Alfred, 3,460,871.
Maurer, Fritz; and Novet, Hanspeter, 3,461,774.
Werley, George L., to New Jersey Zinc Company, The. Iron powder infiltrant. 3,429,696, 2-25-69, Cl. 75-157.5
Werminghausen, Bernhard: *See—*
Raichle, Ludwig; Werminghausen, Bernhard; and Untersten-hoefer, Leo,3,446,122.
Wernecke, Lloyd C.: *See—*
Savre, Graydon; and Wernecke, Lloyd C.,3,433,646.
Werneke, Hans. Manufacture of a highly efficient aluminium radiator. 3,451,114, 6-24-69, Cl. 29-157.3

Werner & Pfleiderer: *See*—
Boden, Max J. Hellmut, 3,428,165.
Fritsch, Rudolf Paul, 3,456,317.
Fritsch, Rudolf Paul, 3,477,101.
Herold, Wilhelm Hans; and Rubi, Gustav Ernst, 3,446,233.
Herold, Willy, 3,452,935.
Koch, Heinz; and Paul, Harald Hugo, 3,462,796.
Koch, Heinz, 3,468,518.
Muller, Gerhard Friedrich, 3,468,174.
Ocker, Herbert W. G., 3,450,034.
Ocker, Herbert Wilhelm Gustav, 3,423,841.
Ocker, Herbert Wilhelm Gustav, 3,427,728.
Schweizer, Otto, 3,424,057.
Woitzel, Heinz Otto Wilhelm, 3,445,888.

Werner, Albert F.: *See*—
Guynes, William L., 3,442,195.

Werner, Alfred J., to Du Pont de Nemours, E. I., and Company. Titanium dioxide pigment coated with silica and alumina. 3,437,502, 4-8-69, Cl. 106--300

Werner Arthur W. Automatically cycling swimming pool cleaning system. 3,449,772, 6-17-69, Cl. 4-172.

Werner, Bahlsen: *See*—
Haldimann, Hans Rudolph; and Bartels, Helmut, 3,434,604.

Werner, Charles R., to Werner Machinery Company. Cake making system. 3,448,695, 6-10-69, Cl. 107-1.

Werner, Detlef: *See*—
Kleiner, Hans-Otto; Ruland, Wilhelm; Paikert, Klaus; Hohl, Rudolf; Seiler, Gunter; Schneider, Hellmut; and Werner, Detlef,3,484,789.

Werner, Eric J. Chipbreaker and toolholder. 3,484,920, 12-23-69, Cl. 29-96.

Werner, Frank Charles, to Werner Machinery Company. Stenciling apparatus. 3,421,455, 1-14-69, Cl. 107-1.

Werner, Frank Charles, to Werner Machinery Company. Machine for shaping dough-like materials. 3,469,540, 9-30-69, Cl. 107-12.

Werner, Frank Charles; and Logan, Harold Raymond, to Werner Machinery Company. Meat deboner machine. 3,456,284, 7-22-69, Cl. 17-1.

Werner, Frank D., to Rosemount Engineering Company. Capacitive strain sensor. 3,471,758, 10-7-69, Cl. 317-246.

Werner, Frank D., to Rosemount Engineering Company. Extruder pressure sensor. 3,482,449, 12-9-69, Cl. 73-406.

Werner, Frank D.; and Sathyakumar, Rajabushanam, to Rosemount Engineering Company. Thermal mass flow sensor. 3,433,068, 3-18-69, Cl. 73-204.

Werner, Franz, to Schneider, Jos., & Co. Apparatus or machine for mounting an optical component on a holder therefor. 3,466,728, 9-16-69, Cl. 29-200.

Werner, Georges: *See*—
de Ratuld, Yves; and Werner, Georges,3,462,526.

Werner, Georg; and Rauhut, Herbert, to Keuffel & Esser Company, mesne. Two-component diazotype material. 3,473,930, 10-21-69, Cl. 96-91.

Werner, Gerhard: *See*—
Kuhlkamp, Alfred; and Werner, Gerhard,3,474,114.

Werner Greutert: *See*—
Scholzel, Karl, 3,433,671.
Scholzel, Karl, 3,433,672.

Werner, Helmut Wilhelm Werner, to U.S. Philips Corporation. Mass spectrometer ion source with a two region ionization chamber to minimize energy spreading of the ions. 3,461,285, 8-12-69, Cl. 250-41.9

Werner, Helmut; and Stapp, Hans, to Glanzstoff AG. Method of producing a yarn with random denier fluctuations. 3,478,143, 11-11-69, Cl. 264-290.

Werner, Johannes; Golde, Hans; and Schlick, Horst, to VDO Tachometer Werke Adolf Schindling GmbH. Method of producing a flexile protection tube for a flexible shaft guided in the tube with radial play. 3,443,307, 5-13-69, Cl. 29-527.2

Werner, Kurt, to Schneider, Jos., & Co. Optical instrument with movable lens holder. 3,442,576, 5-6-69, Cl. 350-255.

Werner, Leonard G.: *See*—
Ryan, Robert R.; and Werner, Leonard G.,3,463,188.

Werner, Lincoln Harvey: *See*—
Huebner, Charles Ferdinand; and Werner, Lincoln Harvey,3,459,860.
Huebner, Charles Ferdinand; and Werner, Lincoln Harvey,3,470,185.

Werner, Lincoln Harvey, to Ciba Corporation. Etherified bisaryl compounds. 3,449,418, 6-10-69, Cl. 260-559.

Werner, Lincoln Harvey, to Ciba Corporation. N-substituted isoquinolines as antiprotozoal agents. 3,480,714, 11-25-69, Cl. 424-258.

Werner, Lincoln Harvey, to Ciba Corporation. 2-Aralkyl-1,3-diaza-2-cycloalkenes. 3,483,203, 12-9-69, Cl. 260-251.

Werner, Lincoln Harvey; and Barrett, Walter Edward, to Ciba Corporation. Treatment of cardiac arrhythmias with pharmaceutical compositions containing N-[(2-imidazolin-2-yl)- methyl]-iminodibenzyl or salts thereof. 3,449,500, 6-10-69, Cl. 424-273.

Werner, Lncoln Harvey, to Ciba Corporation. N-isoquinolylalkanoyl-N-arylamines. 3,483,206, 12-9-69, Cl. 260-286.

Werner Machinery Company: *See*—
Booth, William M.; Doornbos, George H.; Rander, Robert H.; and Knutson, John W., 3,445,038.
Brunson, Bruce W., 3,448,700.
Brunson, Bruce W.; and Bos, Ronald D., 3,459,088.
Brunson, Bruce W., 3,481,307.
Verhoeven, Albert F., 3,448,696.
Werner, Charles R., 3,448,695.
Werner, Frank Charles, 3,421,455.
Werner, Frank Charles; and Logan, Harold Raymond, 3,456,284.
Werner, Frank Charles, 3,469,540.

Werner, Paul: *See*—
Putsch, Peter Ulrich; Werner, Paul; and Reinmoller, Gustav Adolf,3,432,880.
Putsch, Peter Ulrich; Werner, Paul; and Reinmoller, Gustav Adolf,3,432,881.

Werner, R. D., Co., Inc.: *See*—
Lindesmith, Harold R.; Sulecki, Richard P.; and Tuck, Charles R., 3,481,026.
Lindesmith, Harold R.; Sulecki, Richard P.; Tuck, Charles R.; and Werner, Richard L., 3,484,931.
Redman, James Charles; Montgomery, Richard M.; and Werner, Richard L., 3,454,135.
Werner, Richard L.; and Sulecki, Richard Paul, 3,477,120.

Werner, Raymond E., to Sterling Drug Inc. Thermographic copying system. 3,447,944, 6-3-69, Cl. 117-36.2

Werner, Raymond E.; and Roberts, Robert A., to Sterling Drug Inc. Bromination of salicylanilide. 3,457,309, 7-22-69, Cl. 260-559.

Werner, Richard E., to Radio Corporation of America. Bidirectional IGFET with symmetrical linear resistance with specific substrate voltage control. 3,441,748, 4-29-69, Cl. 307-237.

Werner, Richard L.; and Sulecki, Richard Paul, to Werner, R. D., Co., Inc. Method of making ladder joint. 3,477,120, 11-11-69, Cl. 29-509.

Werner, Richard L.: *See*—
Lindesmith, Harold R.; Sulecki, Richard P.; Tuck, Charles R.; and Werner, Richard L.,3,484,931.
Redman, James Charles; Montgomery, Richard M.; and Werner, Richard L.,3,454,135.

Werner, Robert B., to Kirk & Blum Manufacturing Co., The. Fume control apparatus. 3,443,802, 5-13-69, Cl. 266-15.

Werner, Robert P., to Ethyl Corporation. Preparation of cyclopentadienyl metal olefin compounds. 3,474,017, 10-21-69, Cl. 204-162.

Werner, Robert: *See*—
Nachbur, Hermann; Werner, Robert; and Maeder, Arthur,3,449,302.

Werner, Siegfried: *See*—
Sucher, Josef; Werner, Siegfried; Schlosser, Hellmut; Chojnowski, Manfred; and Hain, Josef,3,479,723.

Werner, Tage: *See*—
Greaves, Melvin J.; and Werner, Tage,3,431,691.
Greaves, Melvin J.; and Werner, Tage,3,460,818.
Greaves, Melvin J.; Werner, Tage; and Greenwalt, Richard B.,3,432,287.

Werner, Udo, to Bremshey & Co. Collapsible serving cart. 3,436,092, 4-1-69, Cl. 280-36.

Werner, Walter, to Zeiss-Stiftung, Carl, dba Zeiss, carl. Binocular periscope. 3,486,806, 12-30-69, Cl. 350-35.

Wernette, Gary E.; and Jankowiak, Erwin M., to Dow Chemical Company, The. Pyrotechnic disseminating composition containing an agent to be disseminated. 3,467,558, 9-16-69, Cl. 149-19.

Wernick, Jack H.: *See*—
Dillon, Joseph F., Jr.; Le Craw, Roy Conway; von Philipsborn, Henning; and Wernick, Jack H.,3,480,409.

Wernicke, Hans-Joachim, to Messer Griesheim G.m.b.H. Roller arrangement in separating devices. 3,443,803, 5-13-69, Cl. 266-23.

Wernlund, Roger F., to Franklin Gno Corporation. Apparatus and methods for silently surveying automobile radios. 3,434,150, 3-18-69, Cl. 346-1.

Werntz, Charles W., to Engel Equipment Inc. Roll forming machine including divided roll parts and spacers therefor. 3,447,351, 6-3-69, Cl. 72-245.

Werra, Bruno H., to Ladish Co. Sanitary processing pumps. 3,481,273, 12-2-69, Cl. 103-103.

Werres, Horst; Baumert, Dietrich; and Kotter, Clemens, to Schering, A.G. Method of combating insects with monochloromethyl thiocyanate. 3,437,730, 4-8-69, Cl. 424-302.

Wershey, Edward J., to Aerovox Corporation. Pressure vented electrolytic capacitor. 3,463,969, 8-26-69, Cl. 317-230.

Wertelewski, Wilhelm: *See*—
Kolk, Theodor; and Wertelewski, Wilhelm,3,486,592.

Wertepny, Rudolph J., Sr., to Wiss, J., and Sons Co. Blade-type cutting implements and method of manufacture. 3,453,651, 7-1-69, Cl. 30-253.

Wertepny, Rudolph J., Sr., to Wiss, J., and Sons Co. Hand tools. 3,453,731, 7-8-69, Cl. 30-267.

Werth, John J.; and Lake, David P., to General Motors Corporation. Lithium-halogen fuel cell and method of producing electricity. 3,455,744, 7-15-69, Cl. 136-86.

Werth, Kenneth E.: *See—*
Slykhouse, Thomas E.; Werth, Kenneth E.; and Volk, Henry,3,446,681.
Werther, Walter V.; Kunemund, Friedrich; and Albsmeier, Hans, to Siemens Aktiengesellschaft. Apparatus for multichannel carrier-frequency telephone transmission. 3,471,645, 10-7-69, Cl. 179-15.
Wertli, Alfred J. Cooling apparatus for differentially cooling a continuous casting. 3,447,592, 6-3-69, Cl. 164-283.
Wertz, William H.: *See—*
Duncan, Glen R.; and Wertz, William H.,3,478,273.
Werzeugmaschinenfabrik Gildemeister & Comp., A.G.: *See—*
Jacoby, Hans; and Spauschus, Karl, 3,435,963.
Wesch, Ludwig, to Mancar-Trust. Pipe connection. 3,458,219, 7-29-69, Cl. 285-110.
Wesch, Ludwig, to Mancar-Trust. Process for the manufacture of improved reinforced pipe and other articles. 3,461,094, 8-12-69, Cl. 260-41.
Wesch, Ludwig; and Beck, Gerhard, to Eltro G.m.b.H. Radar camouflaging net. 3,427,619, 2-11-69, Cl. 343-18.
Wesch, Ludwig; and Fromme, Hartmut, to Electro G.m.b.H. Space absorbers for electromagnetic waves. 3,440,655, 4-22-69, Cl. 343-18.
Wesch, Ludwig; and Ullrich, Kurt, to Eltro G.m.b.H. Radar-proof and shell-proof building material. 3,454,947, 7-8-69, Cl. 343-18.
Weschler, William A.: *See—*
Pelavin, Milton H.; Weschler, William A.; and Negersmith, Kent M.,3,427,135.
Wescott, Alexander J.: *See—*
Davis, Russell S.; and Wescott, Alexander J.,3,462,541.
Wesel, John R.; and Olds, Leonard E., to Strategic Materials Corporation. Heating apparatus and process. 3,427,010, 2-11-69, Cl. 263-33.
Weseloh, John W., Jr.: *See—*
Miller, Walter O.; and Weseloh, John W., Jr.,3,447,495.
Wesemeyer, Harald Heinrich Kurt, to Telefonaktiebolaget L M Ericsson. Semiconductor bi-directional component. 3,436,624, 4-1-69, Cl. 317-237.
Wesemeyer, Heinrich: *See—*
Umblia, Elmar J.; and Wesemeyer, Heinrich,3,444,438.
Wesener, Erich, to Buro Patent AG. Trackless conveyor installation. 3,474,877, 10-28-69, Cl. 180-98.
'Weser' Flugzeugbau/Focke-Wulf/Heinkel-Flugzeugbau:*See—*
Myczinski, Alfred, 3,486,721.
Wesesku, George. Flexible tubing. 3,442,297, 5-6-69, Cl. 138-122.
Wesley Industries, Inc.: *See—*
Hilfinger, George C., 3,437,392.
Wesley, Robert O.: *See—*
Daniel, Richard I.; and Wesley, Robert O.,3,465,741.
Wesner, Charles R., to Sperry Rand Corporation. Solid state servo system including a unique D.C. control triggering A.C. power to the servomotor. 3,431,475, 3-4-69, Cl. 318-18.
Wesoloski, Henry J., to Allis-Chalmers Manufacturing Company. Removable shield means for vacuum switch bellows. 3,440,377, 4-22-69, Cl. 200-144.
Wesoloski, Henry J., to Allis-Chalmers Manufacturing Company. Contact supporting stud and method for making the same. 3,463,892, 8-26-69, Cl. 200-144.
Wesolowski, Adolph J., to Garrett Corporation, The. Alternating current generator. 3,467,845, 9-16-69, Cl. 310-168.
Wesolowski, Kornel: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.
Wesolowski, Wyne E.: *See—*
Hazdra, James J.; Sonnleitner, David; and Wesolowski, Wyne E.,3,434,817.
Wesp, Adam, to Techem Gesellschaft zur Auswertung Technisch Chemischer Verfahren und Patente mit Beschrankter Haftung. Meter for measuring amounts of heat. 3,464,268, 9-2-69, Cl. 73-193.
Wess, Thomas B., to General Electric Company. Dual purpose pump. 3,442,218, 5-6-69, Cl. 103-10.
Wessberg, Jacob Erland Magnus, to Aktiebolaget Gotaverken. Combustion furnaces for waste liquor. 3,421,462, 1-14-69, Cl. 110-7.
Wessel, Hans. Pipe-cleaning brush. 3,466,691, 9-16-69, Cl. 15-104.19
Wessel, Karl Heinz, to Friedrich Stubbe. Apparatus for injection molding of soles onto the bodies of footwear. 3,467,985, 9-23-69, Cl. 18-30.
Wessel, Otto: *See—*
Naeser, Gerhard; Wessel, Otto; and Darschewski, Kurt,3,433,049.
Wessel, Paul. Diver's watch. 3,475,902, 11-4-69, Cl. 58-126.
Wesselhoft, Robert D.: *See—*
Amir, Emanuel M.; Wadley, Edward F.; and Wesselhoft, Robert D.,3,449,456.
Wesselink, Gustaaf Adolf, to U.S. Philips Corporation, mesne. Europium-tri-dibenzoylmethane laser. 3,457,523, 7-22-69, Cl. 331-94.5
Wessells, Henry W., III, to Budd Company, The. Unitized automobile body construction. 3,423,122, 1-21-69, Cl. 296-28.
Wessells, Henry W., III, to Budd Company, The. Unitized lightweight sedan automobile body construction. 3,423,123, 1-21-69, Cl. 296-28.
Wessells, Henry W., III; and Eggert, Walter S., Jr., to Budd Company, The. Automobile body side sill construction. 3,455,595, 7-15-69, Cl. 296-28.
Wessells, Russell I., to United States of America, Army. Stabilizing a smoke shell with an interior plastic liner. 3,485,171, 12-23-69, Cl. 102-56.
Wessells, Russell I.; and Dawkins, Bluford A., to United States of America, Army. Anti-pillaring white phosphorus projectile. 3,427,975, 2-18-69, Cl. 102-90.
Wesselman, Petrus Geradus Johannes: *See—*
Noordermeer, Aart; Puister, Willem; and Wesselman, Petrus Geradus Johannes,3,475,506.
Wessels, Johannes Hendrik: *See—*
Backers, Franciscus Theodorus; and Wessels, Johannes Hendrik,3,432,614.
Wessely, Eugene, to Futs Metalliques Gallay S.A. Manufacture of metallic containers. 3,425,381, 2-4-69, Cl. 113-120.
Wessling, Ritchie A.; and Settineri, William J., to Dow Chemical Company, The. Process for producing polymers by the electroreduction of sulfonium compounds. 3,480,525, 11-25-69, Cl. 204-59.
Wessling, Ritchie A.; and Settineri, William J., to Dow Chemical Company, The. Process for producing P,P'-dinitrobibenzyl compounds by the electroreduction of sulfonium compounds. 3,480,527, 11-25-69, Cl. 204-73.
Wessner, Harald, to Vockenhuber, Karl Hauser, Raimund. Exposure meter for motion picture cameras. 3,428,394, 2-18-69, Cl. 352-166.
Wesson, Guy W.: *See—*
Born, Gerald C.; and Wesson, Guy W.,3,476,417.
West Bend Company, The: *See—*
Fricker, David C., 3,467,817.
West, Carl J., Jr., deceased0 (by West, Margaret Ruth Ross; executor), to Ross, Margaret R. Packaging machine. 3,475,878, 11-4-69, Cl. 53-30.
West, Charles E., Jr.; and Schmidt, Jack W., to General Motors Corporation. Power transmission. 3,475,992, 11-4-69, Cl. 74-759.
West, Charles Henry, to United States of America, Army. Manually operable photoelectric card reader containing alignment checking apparatus. 3,463,930, 8-26-69, Cl. 250-219.
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J., to U.S. Plywood-Champion Papers, Inc. Production of foam products from tall oil alkyds and a liquid diene polymer. 3,444,105, 5-13-69, Cl. 260-2.5
West, Charles P.; Weinberg, Alan E.; Oliver, William F.; and Perez, Rafael J., to U.S. Plywood-Champion Papers, Inc. Novel foams and methods for their production. 3,467,646, 9-16-69, Cl. 260-2.5
West, Clark E. Boat-centering apparatus. 3,447,815, 6-3-69, Cl. 280-144.
West Coast Foundation Drilling Co., Ltd.: *See—*
Thurber, Reginald C., 3,441,140.
West Company, The: *See—*
Andersen, Eli Frank, 3,446,170.
Glensky, William E., 3,439,825.
Rohde, LeRoy H., 3,464,576.
Rohde, LeRoy H., 3,480,171.
West, De Witt Henry; and Simpson, Alexander Bowen, to International Nickel Company, Inc., The. Process for agglomerating fine metal powders. 3,445,555, 5-20-69, Cl. 264-111.
West Electric Co., Ltd.: *See—*
Sawda, Yasunori, 3,439,158.
West, Ernest; Cotton, Ivan C.; Challenger, Frederick R.; and Cotton, Ivan C., 1/2 each to Monk, S. A., and I & R Morley Limited. Straight bar multihead knitting machine. 3,449,930, 6-17-69, Cl. 66-88.
West, Francis G., to Shell Oil Company. Underwater wellhead installation. 3,461,957, 8-19-69, Cl. 166-0.5
West, Frank B.: *See—*
Vincent, Robert E.; Collins, Charles G.; Snyder, Nate H.; and West, Frank B.,3,458,404.
West, Fred William; Gresham, John Thomas; and Weil, Theodore, to FMC Corporation. Halogenated phosphates and phosphonates. 3,428,715, 2-18-69, Cl. 260-955.
West, Harold E., to Mallory, P. R., & Co., Inc. Variable sound level buzzer having resistance controlled winding. 3,436,759, 4-1-69, Cl. 340-388.
West, Howard W.: *See—*
Preikschat, Fritz K.; and West, Howard W.,3,430,140.
West, Hoy E.; and Collins, Johnnie C., to Servis Equipment Company. Earth working implements and lift-latch assembly therefor. 3,470,964, 10-7-69, Cl. 172-197.
West, James L., to Weston Instruments, Inc. Phase detector with low ripple output near zero phase angle. 3,422,362, 1-14-69, Cl. 328-134.

West, James P.: *See—*
Little, John C.; and West, James P.,3,440,029.
West, James R. Method of agglomerating potassium chloride using hydrofluoric acid or metallic fluoride. 3,427,145, 2-11-69, Cl. 71-61.
West, Joe E.: *See—*
Funk, Floyd S.; Roundtree, Grover L.; and West, Joe E.,3,477,351.
West, John B., to Maryland Cup Corporation. Lid construction and method of manufacturing it. 3,469,507, 9-30-69, Cl. 93-39.1
West, John M.: *See—*
Bevilacqua, Frank; and West, John M.,3,459,635.
West, John R.: *See—*
Shapland, Earl P., Jr.; and West, John R.,3,460,629.
West, Joseph K., to Pioneer Packaging, Inc. Display package. 3,455,440, 7-15-69, Cl. 206-45.31
West, Kenneth: *See—*
Glen, William; and West, Kenneth,3,448,573.
West, Lynn P.: *See—*
Calfee, Richard W.; Hopner, Emil; Meyer, Orman F.; and West, Lynn P.,3,466,392.
West, Margaret Ruth Ross: *See—*
West, Carl J., Jr.,3,475,878.
West, Paul Bemis, to Maremont Corporation. Sliver gatherer and conveyor. 3,432,891, 3-18-69, Cl. 19-157.
West Point-Pepperell, Inc.: *See—*
Charlton, Richard E., Jr.; and McDaniel, Rupert A., 3,476,626.
Cotton, James F.; and Heard, Maurice E., 3,420,696.
Lester, Hazen Russell, Jr., 3,439,845.
Printz, Stanley M., 3,440,307.
West, Richard Frank, to Incinerator Company Limited, The. Grates for furnaces. 3,470,833, 10-7-69, Cl. 110-18.
West, Robert E.: *See—*
Adam, Charles R.; and West, Robert E.,3,440,780.
West, Robert E., to Cascade Industries, Incorporated. Humidity indicator. 3,425,388, 2-4-69, Cl. 116-114.
West, Robert F.: *See—*
Brown, Martin M.; Kuchta, Frank J.; and West, Robert F.,3,438,595.
West, Roger T.: *See—*
Slaats, Mathew A.; and West, Roger T.,3,472,110.
Welsh, Alan B.; and West, Roger T.,3,422,209.
Welsh, Alan B.; and West, Roger,3,421,403.
West, Seymour S.; and Liskowitz, John W., to Melpar, Inc. Apparatus and method for obtaining optical rotatory dispersion measurements. 3,481,671, 12-2-69, Cl. 356-96.
West, Shannon V. Felt conditioner control system. 3,459,633, 8-5-69, Cl. 162-275.
West Texas State Bank: *See—*
Allen, Melvin Oland, 3,480,833.
Allen, Melvin Oland, 3,480,833.
West Virginia Pulp and Paper Company: *See—*
Brewster, Donald B.; and Burgess, William H., Jr., 3,463,700.
Brundige, Maurice M.; Hunger, Gunther K.; and Kohne, Harry F., Jr., 3,441,473.
De Ligt, John, 3,449,811.
Goos, Hanno, 3,423,239.
Griffiths, Darrell J. L.; Miller, Kenyon W.; and Nikkel, Willem A., 3,434,901.
Kuns, Roger R.; and Orwig, Nelson, 3,438,508.
Lohnas, John D.; Bourdeau, Raymond D.; and Kalia, Kanwal K., 3,442,685.
Lokey, Burke P.; and Rein, Charles R., 3,433,135.
Maurer, Hans W., 3,475,215.
Obenshain, David Noel, 3,445,130.
Vann, Clifton B., III, 3,434,602.
Woyce, Louis C., Jr., 3,425,619.
West, Walter H.: *See—*
Schroeder, Robert E.; West, Walter H.; and Mick, William F.,3,461,505.
West, Wilbur C., to W. & A. Manufacturing Company. Agricultural device. 3,456,607, 7-22-69, Cl. 111-85.
West, William A. Rotary bearing. 3,458,214, 7-29-69, Cl. 280-104.5
West, William B., to Crown Zellerbach Corporation. Refiner bleaching of high yield pulps. 3,467,574, 9-16-69, Cl. 162-24.
West, William B.; and Henderson, John T., to Crown Zellerbach Corporation. Storage of high consistency refined pulp. 3,445,329, 5-20-69, Cl. 162-19.
West, William W.: *See—*
Bolt, Robert O.; and West, William W.,3,455,865.
West, William W.; and Bolt, Robert O., to Chevron Research Company. Strippable coatings comprising atactic olefin copolymer, dialkyl selenide and benzotriazole. 3,424,711, 1-28-69, Cl. 260-45.8
West, William W.; and Bolt, Robert O., to Chevron Research Company. Ethylene-propylene polymer strippable coating compositions. 3,454,520, 7-8-69, Cl. 260-33.6
Westaway, Michael Thomas: *See—*
Goldup, Alan; and Westaway, Michael Thomas,3,472,762.
Goldup, Alan; Morrison, Anthony B.; and Westaway, Michael Thomas,3,484,500.
Westberg, Johan Eric Hayden: *See—*
Hedberg, Oscar Emanuel; Soderberg, Leif Erik Roland; and Westberg, Johan Eric Hayden,3,444,289.
Westbrook, Carl M., to Beloit Corporation. Film width sensing device. 3,438,084, 4-15-69, Cl. 18-2.
Westbrook, Carl M., to Beloit Corporation. Control for maintaining uniform gauge on blown film. 3,438,088, 4-15-69, Cl. 18-14.
Westbrook, Carl M., to Beloit Corporation. Torque meter. 3,448,610, 6-10-69, Cl. 73-136.
Westbrook, Carl M., to Beloit Corporation. Traversing cross machine profile scanner. 3,451,258, 6-24-69, Cl. 73-37.7
Westbrook, Howard L., to Shell Oil Company. Fabric impregnated with polyepoxide- polyfunctional amine condensate. 3,454,421, 7-8-69, Cl. 117-126.
Westbrook, John James, III: *See—*
Theimer, Ernst T.; Westbrook, John James, III; Wolt, John; and Quinn, Alton Dewitt,3,449,407.
Westbrook Lanolin Co.: *See—*
Clark, Edward Watson; and Kitchen, Geoffrey F., 3,440,167.
Westbrook, Lowell V., to Honeywell Inc. Control apparatus. 3,477,004, 11-4-69, Cl. 318-257.
Westbrook, Margaret: *See—*
Terrenzio, Gabriel J.; and Westbrook, Margaret,3,477,446.
Westbrook, Sidney O.; and Mickley, Lewis D., Jr. Plumbing connection. 3,479,060, 11-18-69, Cl. 285-58.
Westbury, Roy; and Maltby, Peter John, to Hobson, H. M., Limited. Electro-hydraulic actuators. 3,461,778, 8-19-69, Cl. 91-3.
Westby, Lloyd R.; and Bourgeois, Francis H. Vehicle speed control device. 3,476,204, 11-4-69, Cl. 180-98.
Westcott, Wayne L.: *See—*
Myers, Dirck V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B.,3,458,397.
Westdale, Virgil W., to Burroughs Corporation. Photoelectric method for testing the life and quality of inked ribbons. 3,445,670, 5-20-69, Cl. 250-219.
Westerberg, Eugene R.: *See—*
Myers, Robert E.; and Westerberg, Eugene R.,3,482,837.
Westerboer, Ingo: *See—*
Bruckner, Egon; and Westerboer, Ingo,3,435,676.
Westeren, Herbert W., to Hayes, C. I., Inc. High vacuum electric furnace. 3,441,452, 4-29-69, Cl. 148-143.
Westeren, Herbert W.; and Kimball, William H., to Hayes, C. I., Inc. Furnace construction having atmosphere curtain. 3,467,366, 9-16-69, Cl. 263-6.
Westeren, Herbert W.; Kimball, William H.; and Scotto, Vincent, to Hayes, C. I., Inc. Electric furnace with continuously sealed heating chamber. 3,431,346, 3-4-69, Cl. 13-31.
Westergard, David J.: *See—*
Reinecker, Walter J.; and Westergard, David J.,3,478,793.
Westerhof, Pieter; and Hartog, Jan, to North American Philips Company, Inc. Method of producing 3-keto-4,6-bisdenhydro-6-. 3,423,433, 1-21-69, Cl. 260-397.3
Westerhof, Pieter; and Hartog, Jan, to U.S. Philips Corporation, mesne. Method of producing 3-keto-4,6-bisdehydro 6-halo steroids of the androstane and pregnane series and intermediates useful therefor. 3,471,529, 10-7-69, Cl. 260-397.3
Westerhof, Pieter; and Scholer, Hendrik Frederik Louis, to U.S. Philips Corporation, mesne. Novel 6,6-dihalo-9β 10α-steroids. 3,468,917, 9-23-69, Cl. 260-397.3
Westerhof, Pieter: *See—*
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,422,122.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,437,675.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,445,489.
Reerink, Engbert Harmen; Westerhof, Pieter; and Scholer, Hendrik Frederik Louis,3,476,782.
Westerhof, Thomas Jan: *See—*
Korst, Peter Herman Maria; Verhoeven, Adrianus Franciscus Cornelis; and Westerhof, Thomas Jan,3,487,257.
Rommerts, Jan Willem; and Westerhof, Thomas Jan,3,444,420.
Westerlund, Bengt Arvid, to Atlas Copco Aktiebolag. Electro-hydraulic parallel motion means for drill boom supported rock drilling apparatus. 3,481,409, 12-2-69, Cl. 173-43.
Westerlund, Donald R.: *See—*
Serio, Vincent J., Jr.; Smith, Gary W.; and Westerlund, Donald R.,3,469,745.
Westerlund, Gothe O., to Chemech Engineering Ltd. Preparation of chemicals for kraft pulping and bleaching and apparatus therefor. 3,442,778, 5-6-69, Cl. 204-95.
Westerlund, Gothe O., to Chemech Engineering Ltd. Electolytic cell with cover includig feeding means. 3,451,915, 6-24-69, Cl. 207-275.
Westerlund, Gothe O., to Chemech Engineering Ltd. Graphite electrodes with double-walled loop current leakage seal and electrolytic cell therewith. 3,468,787, 9-23-69, Cl. 204-268.
Westerlund, Gothe Osar, to Chemech Engineering Ltd. Electrolysis system for chlorate manufacture. 3,463,722, 8-26-69, Cl. 204-268.

Westerlund, Gothe Oscar. Combined degasifier and reacting chamber. 3,464,187, 9-2-69, Cl. 55-199.
Westerlund, Gothe Oscar, to Chemech Engineering Ltd. Electrolytic cell for chlorate manufacture. 3,475,313, 10-28-69, Cl. 204-234.
Westerlund, Harry G.: *See—*
Johnson, Charles J., Jr.; and Westerlund, Harry G.,3,435,588.
Westerlund, Herbert A.; and Westerlund, Robert E., to Koehring Company. Gate valve. 3,476,358, 11-4-69, Cl. 251-214.
Westerlund, Herbert A.: *See—*
Westerlund, Robert E.; and Westerlund, Herbert A.,3,486,568.
Westerlund, Robert E.; and Westerlund, Herbert A. Hydraulic impact apparatus. 3,486,568, 12-30-69, Cl. 173-31.
Westerlund, Robert E.: *See—*
Westerlund, Herbert A.; and Westerlund, Robert E.,3,476,358.
Westerman, Albert: *See—*
Hancock, John; and Westerman, Albert,3,439,877.
Hancock, John; and Westerman, Albert,3,439,997.
Westerman, Ralph L.: *See—*
Sharkey, Robert T.; and Westerman, Ralph L.,3,424,855.
Westermann, Donald H.: *See—*
Nakayama, Tommy; and Westermann, Donald H.,3,433,642.
Western Brass Works: *See—*
Sully, Frank H., 3,468,485.
Western Concrete Structures Co., Inc.: *See—*
Hunter, Raymond E., 3,437,359.
Western Conveyor Company: *See—*
Burns, Robert N.; and Wulf, Thornton E., 3,439,480.
Western Electric Company, Incorporated: *See—*
Adair, Frank M.; and De Boo, Emil A., 3,443,001.
Archer, John Wesley; and Fuchs, Francis Joseph, Jr., 3,452,566.
Atkinson, William Henry, 3,443,606.
Avedissian, Michael K., 3,486,677.
Badini, John A.; and Scherb, Walter R., Jr., 3,451,118.
Balde, John W., 3,470,541.
Barnett, Richard D.; and Streich, Robert E., 3,462,682.
Baynard, Joseph S., Jr., 3,426,218.
Bellamy, William G.; Bohannon, William D., Jr.; and Etchison, John O., Jr., 3,457,616.
Bippus, Jacob R.; and Johnson, Anderson F., Jr., 3,448,510.
Bippus, Jacob R., 3,453,989.
Blitchington, Frank H., Jr., 3,435,335.
Blitchington, Frank H., Jr.; and Harris, Richard A., 3,448,280.
Bohannon, William D., Jr.; and King, Harold O., 3,479,720.
Bouvier, Francis L.; Carlson, Roy C., Jr.; Higgins, Charles W.; Smith Norman F.; and Kelley, John J., 3,438,155.
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H., 3,437,727.
Boyhan, Walter S.; Mayer, Rudolf; and Staheli, Arthur H., 3,443,008.
Brewer, Robert F., 3,460,037.
Brewer, Robert F.; and Piechocki, Benjamin, 3,476,531.
Briggs, Thomas H.; and Dudley, Richard H., 3,424,532.
Brookshire, John E., 3,454,738.
Brosseit, Fritz V., 3,434,324.
Brosseit, Fritz V., 3,435,986.
Brosseit, Fritz V., 3,457,761.
Brosseit, Fritz V., 3,465,409.
Brosseit, Fritz V., 3,475,974.
Brown, Donald R., 3,461,362.
Brown, Donald R., 3,465,403.
Brown, Ford G.; Davies, Robert W.; and Kellner, George D., 3,420,511.
Brown, Ford J.; and McAlexander, Joseph C., Jr., 3,426,425.
Brown, Martin J., 3,450,993.
Brown, William B., 3,439,483.
Burns, John A., 3,484,935.
Carlson, Robert M.; Jasorka, Larry P.; Mulconrey, John F.; and Trimble, Glenn A., 3,458,931.
Casey, John B., 3,479,584.
Casner, Bernard G.; and Goulstone, Ray T., 3,474,904.
Christensen, Fank W., 3,458,921.
Cogelin, Nicholas J.; Martin, Samuel M.; and Ramsey, Raymond B., 3,433,884.
Cornwell, Robert, Jr.; and Fields, John G., 3,437,927.
Costello, Bernard James, 3,457,386.
Cushman, Robert H., 3,439,731.
Cushman, Robert Holbrook, 3,434,201.
Cushman, Robert Holbrook, 3,439,536.
Cushman, Robert Holbrook, 3,448,911.
De Angelo, Michael Anthony; Sagal, Matthew Warren; and Sharp, Donald Jex, 3,485,665.
De Jarld, Norman L .; and Martin, Laurence R., 3,440,524.
Dornberger, Georg; and Wahl, Frank, 3,470,463.
Edson, Gwynne I., 3,445,352.
Eppler, Walter T., 3,436,954.
Estabrooks, David A., 3,479,200.
Fagerstrom, Joseph W.; and Kent, William C., 3,448,515.
Fanning, William J., 3,432,901.
Fanning, William J., 3,435,308.
Fearon, Ralph L.; and Story, Robert M., 3,461,414.
Fegley, Charles R.; and Regneth, Lorenz, 3,464,548.
Ferrari, Armando Gene, 3,435,105.
Frank, Gerard A., 3,424,667.
Fuchs, Francis Joseph, Jr., 3,451,241.
Fuchs, Francis Joseph, Jr., 3,459,021.
Fullton, James M., Jr., 3,470,364.
Gilbertson, Oswald I., 3,458,929.
Grainger, William G.; and Sanders, Richard C., 3,456,813.
Gregory, Leroy C.; and Haywood, John T., 3,439,268.
Hannis, Eugene S.; and Reale, Paul J., 3,434,677.
Harendza-Harinxma, Alfred J., 3,445,353.
Harris, Richard A., 3,436,513.
Hatcher, Arthur L., Jr., 3,447,236.
Hayany, Adnan T., 3,425,005.
Hayany, Adnan T., 3,452,302.
Heinz, Alfred, 3,462,607.
Hoffman, Sellers P., 3,466,556.
Houda, James C., Jr., 3,482,074.
Hughes, David A., 3,462,574.
Hurst, Jerry C.; and Kurtz, Samuel E., 3,480,165.
Igarashi, Yoshiaki; and Kobayashi, Kazutsugu, 3,440,511.
Jannett, Frederick Joseph, 3,471,098.
Jasorka, Larry P.; and Richards, Edward E., III, 3,440,531.
Johnson, Anderson F., Jr., 3,435,943.
Johnson, Arnold R., 3,433,938.
Kalina, Robert F.; and Verenski, Lawrence E., 3,434,024.
Kastning, William H., 3,440,526.
Kastning, William H., 3,443,210.
Kuhns, Donald C.; and Ports, David W., 3,451,122.
Lamoureux, Gilbert J., 3,471,915.
Langlois, Emile G.; and Smith, Norman F., 3,456,325.
Lepiane, Donald C., 3,445,302.
Mammel, Walter K., 3,466,079.
Mammel, Walter Kester, 3,431,009.
Mandonas, Nicholas J.; and Smith, Norman F., 3,444,782.
Markham, James D.; and Sanders, Charles R., 3,451,633.
Marshall, Howard D., 3,482,114.
McConnell, James C., 3,452,417.
McNamara, Kenneth, 3,432,906.
Menichelli, Robert Paul; and Morgenthaler, Lawrence Philip, 3,438,871.
Milne, George W.; and Schultz, Donald F., Jr., 3,451,591.
Moss, Joe B., 3,428,726.
Nixon, Earl Hollis; and Wheeler, John Watson, 3,467,859.
Owens, James Loyd, 3,479,589.
Peterson, Karl E., 3,433,921.
Rayburn, Vincent A., 3,457,640.
Reppert, Miles N., 3,472,356.
Robinson, John Aloysius, 3,482,154.
Rogers, Frederick F., 3,439,266.
Santangini, Joseph A., 3,442,432.
Santangini, Joseph A., 3,475,814.
Schmick, Quentin L., 3,462,578.
Schmidt, Wilhelm E. A., 3,437,782.
Schneider, Fred J., 3,452,917.
Schneider, Fred J., 3,477,630.
Schoenthaler, David, 3,461,542.
Seaman, Gary G.; and Trenerry, James A., 3,431,387.
Sels, Robert L., 3,437,930.
Sels, Robert L., 3,461,311.
Sels, Robert L., 3,466,552.
Spofford, Jordan F.; and Swanson, Emil B., 3,460,126.
Stetka, Daniel George, 3,464,250.
Swajger, Roger A.; and Wahl, Frank, 3,485,994.
Tedeschi, Anthony, 3,445,764.
Trimble, Charles H., 3,432,924.
Walls, Edgar H., 3,465,415.
Winings, Richard H., 3,424,628.
Winings, Richard H., 3,437,543.
Young, Donald Sanford, 3,423,692.
Western Geophysical Company of America: *See—*
Savit, Carl H., 3,436,723.
Savit, Carl H., 3,441,902.
Strange, Booth B.; and Thigpen, Ben B., 3,430,727.
Strange, Booth B., 3,436,722.
Western Industries, Inc.: *See—*
Jaye, Richard C., 3,479,018.
Western Irrigation Valve Corporation: *See—*
Davis, Roy Forrest, Jr., 3,447,565.
Western Kraft Corporation: *See—*
Buxton, Winslow H., Jr., 3,431,165.
Whitney, Varsel Eli, 3,447,735.
Western Machinery Corporation: *See—*
Hall, Kenneth J., 3,430,784.
Warren, William E., 3,431,888.
Western Mining Corporation Limited: *See—*
Clappison, Reginald J. S., 3,421,590.
McInerney, Edwin, 3,463,253.
Western Oil Tool & Manufacturing Co., Inc.: *See—*
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F., 3,426,456.

Western Oil Tool & Manufacturing Company, Inc.: *See—*
Keith, Guy E.; Turner, Calvin L.; and Marsh, Max F., 3,431,660.
Western Petrochemical Corporation, The: *See—*
Fish, John J., 3,444,155.
Western Progress, Inc.: *See—*
Doyle, Robert L.; and Swezy, Montgomery C., 3,467,301.
Swezy, Montgomery C.; and Doyle, Robert L., 3,458,212.
Western Publishing Company, Inc.: *See—*
Phipps, Mark, 3,430,381.
Wolf, Tobin, 3,429,427.
Western Research and Scientific Laboratories, Inc.: *See—*
Napolitano, Guy C., 3,427,960.
Western Reserve Electronics Inc.: *See—*
Coon, Donald B., 3,474,200.
Coon, Donald B., 3,474,382.
Wise, David S., 3,426,274.
Western Union Telegraph Company, The: *See—*
Ghiringhelli, Robert J., 3,436,477.
Goonan, Harry J., 3,422,350.
Recca, Paquale F. J., 3,461,276.
Swenson, Oscar W., 3,465,960.
Westersten, Allan, to Statham Instruments, Inc. Flowmeter. 3,449,951, 6-17-69, Cl. 73-194.
Westerveld, Willem: *See—*
Janssens, Henri Hubert; Westerveld, Willem; and Nijland, Louis Marius,3,449,260.
Westervelt, Ralph; and Suttles, John R., to Caterpillar Tractor Company. Multiple drive connection. 3,483,762, 12-16-69, Cl. 74-15.2
Westfalia Dinnendahl Groppel Aktiengesellschaft: *See—*
Jager, Heinz, 3,419,968.
Jager, Heinz, 3,483,973.
Westfalia Separator A.G.: *See—*
Hemfort, Heinrich, 3,448,919.
Hemfort, Heinrich, 3,454,216.
Hemfort, Heinrich, Sr., 3,460,751.
Loddenkemper, Franz Josef; and Tenthoff, Aloys, 3,445,062.
Poppenberg, Carl, 3,476,310.
Steinacker, Peter, 3,462,076.
Westfalische Union AG fur Eisen- und Drahtindustrie: *See—*
Hauck, Gunther; Herold, Gerhard; and Schroer, Hans-Gunther, 3,469,801.
Westfall, Dick R.: *See—*
Green, Julius; Morse, Richard W.; and Westfall, Dick R.,3,448,718.
Westfall, James E.: *See—*
Powalowski, Joseph C.; and Westfall, James E.,3,460,701.
Westfall, John F.; and Saukko, Leo E., to Safeway Stores, Incorporated. Shredding machine. 3,467,320, 9-16-69, Cl. 241-89.
Westfall, Theodore R.: *See—*
Mc Kibben, Richard K.; and Westfall, Theodore R.,3,483,977.
Westforp, Pieter: *See—*
Faur, Louis; and Westforp, Pieter,3,458,545.
Westhaver, Lawrence A., 1/2 to Biays, W. Tuckerman. Method for aperture control in which the loop gain is caused to vanish when the absolute value of the error is less than a given value and is caused to assume its nominal valve when the absolute value of the error is greater than a second given value. 3,430,053, 2-25-69, Cl. 250-214.
Westhaver, Lawrence A., 1/2 to Strauss, Martin. System for integrating light energy. 3,486,821, 12-30-69, Cl. 356-72.
Westhead, Stanley J.: *See—*
Cox, John E.; Hasser, George L.; Boehm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F.,3,467,780.
Westheimer, Gerald; and Felsenstein, Lee, to University of California, The Regents of the. Automatic photoelectric keratometer utilizing a cathode ray tube sweep circuit which is symetrically triggered by light from extremities of the measured surface. 3,453,437, 7-1-69, Cl. 250-217.
Westhem Corporation Limited: *See—*
Bates, David P., 3,453,718.
Westhoff, Donald E.: *See—*
Harris, Darrel M.; and Westhoff, Donald E.,3,436,255.
Westin, Axel E., 30% to Andrus, Elwin A. Method of manufacturing closed end tubular products. 3,462,987, 8-26-69, Cl. 72-97.
Westin, Dale B., to Attention, Inc. Vehicle advertising device. 3,471,958, 10-14-69, Cl. 40-129.
Westinghouse Air Brake Company: *See—*
Alexander, Emmett L.; and Smith, Hugh D., 3,464,507.
Allen, Clifford W., 3,460,576.
Bechan, William H.; and Winsor, Jack O., 3,448,576.
Beck, William R.; and Newton, John S., 3,443,655.
Berry, Frank, 3,420,144.
Brill, Edward F., 3,443,680.
Brill, Edward F.; and Shelley, Howard E., 3,459,453.
Brooks, Ralph C.; and Olson, Paul E., 3,443,587.
Buck, Norman R., 3,451,619.
Carey, Andrew J.; and Gilbert, Chalmers W., 3,433,373.
Carlson, Melvin G., 3,480,328.
Dekan, Vincent A.; and Silks, Walter, 3,424,500.
Doolittle, Charles, 3,443,579.
Frill, Richard K., 3,472,396.
Gilbert, Chalmers W.; and Popp, Ralph, 3,433,942.
Glass, William H.; and Bridigum, Robert J., 3,429,454.
Glass, William H.; and Bridigum, Robert J., 3,472,000.
Glass, William H.; and Bridigum, Robert J., 3,486,303.
Haydu, Andrew G.; and Allan, Earl E., 3,447,640.
Hlinsky, Emil J., 3,472,557.
Huffman, Donald D.; and Jackel, Arthur P., 3,479,503.
Hufnagel, Andrew, 3,433,917.
Hufnagel, Andrew, 3,461,411.
Ivy, Joseph G., 3,482,643.
Kirk, Walter B., 3,460,870.
Knight, Homer A., 3,486,527.
Mac Donald, Raymore D., 3,419,975.
MacDonald, Raymore D., 3,427,940.
Marberg, Gustaf A., 3,469,886.
Marberg, Gustaf Albert, 3,469,885.
Marsh, Donald B.; and Sanville, Walter W., 3,430,066.
Newell, George K., 3,476,359.
Olson, Paul E., 3,440,930.
Olson, Paul E., 3,486,519.
Pier, Jerome R., 3,443,842.
Prentice, George M., 3,453,426.
Reilly, Donald C., 3,443,678.
Reilly, Donald C., 3,456,982.
Reno, William H.; and Frill, Richard K., 3,460,872.
Risse, Ralph F.; and Shelley, Howard E., 3,485,531.
Scott, Daniel G., 3,429,620.
Sheppard, Charles W., 3,482,887.
Silks, Walter, 3,481,650.
Smith, Blanchard D., Jr., 3,457,403.
Spalding, Willard P., 3,441,111.
Stipanovic, Joseph G., 3,447,647.
Temple, Fred; and Reno, William H., 3,476,407.
Washbourn, Jack, 3,472,561.
Washbourn, Jack, 3,472,562.
Wilson, Mortimer D.; and Glass, William H., 3,448,229.
Wilson, Richard L., 3,468,585.
Wright, Raymond C., 3,429,327.
Westinghouse Brake and Signal Company Limited: *See—*
Duckitt, Harry; and King, Kenneth G., 3,428,868.
Gibbons, Peter Frederick; Knight, David John; Neal, Brian Patrick; and Parbery, Cyril John, 3,456,988.
King, Kenneth G., 3,431,436.
King, Kenneth G., 3,461,378.
King, Kenneth G., 3,474,322.
Miles, Clifford V.; and Garrett, John M., 3,476,989.
Simmons, Arthur W.; and Washbourn, Jack, 3,425,753.
Simmons, Arthur W.; and Washbourn, Jack, 3,447,563.
Simmons, Arthur W.; and Washbourn, Jack, 3,459,227.
Westinghouse Bremsen- und Apparatebau G.m.b.H.: *See—*
Gross, Fredrich, 3,441,292.
Hinrichs, Horst; and Mensing, Walter, 3,443,839.
Opel, Detlef; Brinkmann, Karl-Heinz; and Kosmalski, Hermann, 3,429,340.
Reinecke, Erich, 3,465,858.
Westinghouse Electric Corporation: *See—*
Abruzzo, Joseph; Cox, Andrew P., Jr.; and Hollandbeck, Raymond F., 3,460,060.
Adamson, Floyd E.; and Frederick, James E., 3,459,996.
Akers, Ronald R., 3,446,902.
Allen, Harvey G., 3,467,015.
Altfather, Conrad T.; and Lensner, Herbert W., 3,427,473.
Altfather, Conrad T., 3,443,159.
Amsterdam, Michael F.; and Whigham, Dale M., 3,457,467.
Appel, Wallace H., 3,476,033.
Appelo, Hendrik C., 3,469,153.
Arntsen, Arnt P., 3,440,578.
Arntsen, Arnt P.; and Boomgaard, Dirk J., 3,450,994.
Atti, Eros, 3,427,490.
Attridge, John T., 3,462,648.
Ayling, Robert W., 3,486,687.
Bailey, Francis T.; and Morgan, Stanley E., 3,429,016.
Bailie, Robert E., 3,448,013.
Baily, William E.; and Colombo, Roberto L., 3,429,025.
Barditch, Irving F.; and Taylor, Charles J., 3,423,262.
Barnett, Eugene J., 3,473,858.
Baudry, Rene A., 3,423,139.
Beach, Earl F., 3,449,536.
Bechtold, James H.; and Somers, Edward V., 3,454,748.
Beck, George P.; and Brauch, Harold N., 3,452,311.
Beck, George P.; and Vargo, Stephen G., 3,454,866.
Beese, Norman C., 3,452,236.
Benbow, Eugene C.; and Burnette, Earl L.., 3,421,084.
Bentley, John M.; and Lytle, Walter J., 3,458,728.
Bentley, John M.; and Aarons, Melvin W., 3,468,729.
Bentley, John M., 3,469,114.
Benty, John L., 3,460,839.
Berg, Daniel; and Dakin, Thomas W., 3,469,047.
Berg, Daniel; and Flowers, Leonard C., 3,469,219.

Berkovitz, Harry, 3,447,637.
Berman, Paul A., 3,473,298.
Beyer, Rolf R.; and Boerio, Alvin H., 3,431,455.
Biancheria, Amilcare; and Allio, Robert J., 3,427,222.
Billings, William W.; and Calfee, Wendell, 3,444,387.
Billings, William W., 3,480,834.
Bilo, William J.; and Steinbach, John F., 3,447,975.
Biondi, Manfred A., 3,426,511.
Boes, David J., 3,427,244.
Boes, David J.; and Moberly, Lawrence E., 3,437,592.
Bohnstedt, Charles E.; Russell, George H.; and Yoos, Harold F., 3,458,794.
Booker, Clyde A., Jr.; and Thompson, Francis T., 3,448,402.
Boomgaard, Dirk J., 3,440,545.
Borrebach, Edwin J., 3,431,344.
Bottone, Arthur A.; and Fallon, Bernard R., 3,469,140.
Bould, Fred, 3,474,201.
Bould, Fred; and Patel, Nagar J., 3,483,338.
Boyce, Walter A., 3,442,038.
Boyd, John, 3,476,447.
Boykin, Curtis R., 3,447,035.
Boykin, John R., 3,480,881.
Brady, Robert M.; Hawkey, Charles W.; and Kirby, John E., 3,442,302.
Brastins, Auseklis; and Willard, Frank G., 3,454,751.
Bricker, Samuel R., 3,421,237.
Bricker, Samuel R., 3,421,238.
Bricker, Samuel R., 3,449,846.
Brooke, Donald C.; and Albert, Irwin, 3,459,990.
Broverman, Alvin Y., 3,431,524.
Broverman, Alvin Y.; and Wilburn, Garlington C., 3,447,112.
Brown, Francis X.; and Wismer, Samuel W., Jr., 3,430,323.
Brown, Harry Curtis, 3,462,757.
Bruning, Armin M.; and Kienast, Peter F., 3,445,191.
Buck, Daniel C., 3,443,146.
Buckingham, Arthur G.; and Haney, Thomas P., 3,429,524.
Buckley, John J.; and Shearer, Joseph W., Jr., 3,429,188.
Burgess, John R.; and Pflaumer, Peter E., 3,430,104.
Burkhardt, Charles E.; and Ellis, Belvin B., 3,477,053.
Burney, Ivan T., 3,478,673.
Buscemi, Vincent P., 3,451,220.
Calfee, Wendell, 3,431,467.
Camp, Henry R.; and Polivka, Emil P., 3,443,168.
Caputo, William R., 3,470,434.
Caputo, William R., 3,474,299.
Carlson, William G.; Moratis, Christy J.; and English, William A., 3,457,052.
Carnahan, Paul E.; and Brooke, Donald C., 3,433,996.
Cattabiani, Eugene J., 3,426,690.
Cerulli, Nicholas F., 3,451,803.
Chamberlin, Richard M., 3,427,227.
Chang, Yu Ghyl, 3,423,653.
Charlton, Thomas; and Crites, Jack E., 3,457,442.
Chauvin, Bernard, 3,434,818.
Chen, Cheng-Lin, 3,480,823.
Chin, Leslie S. F.; and Grayson, Carl L., 3,439,402.
Christman, Ralph E., 3,439,511.
Chu, Chang K., 3,476,992.
Church, Charles H.; and Sletten, Andreas M., 3,474,287.
Church, Charles H.; Davenport, William S.; and Haun, Robert D., Jr., 3,483,481.
Claybourn, Glen L., 3,467,766.
Cobb, William R., 3,437,346.
Cochardt, Alexander W.; and Buttyan, Joseph, 3,452,121.
Cohen, Paul; and Fletcher, Wilson D., 3,468,764.
Colclaser, Robert G., Jr.; and Yeckley, Russell N., 3,454,734.
Colclaser, Robert G., Jr.; and Reese, Frank L., 3,458,676.
Coleman, Louis J.; and Chin, Leslie Sut Fong, 3,454,921.
Cook, John W., 3,487,283.
Cooper, Herbert W., 3,458,817.
Cooper, Herbert Warren, 3,434,144.
Corteggiano, William L.; and Lackey, Donald R., 3,460,815.
Cowan, Robert N., 3,458,150.
Cox, Andrew P., Jr.; and Price, William L., 3,432,851.
Crawford, Thomas G., 3,436,034.
Cricchi, James R.; and Rachal, Francis, 3,427,559.
Cricchi, James R., 3,430,065.
Cricchi, James R.; White, Marvin H.; and McLouski, Raymond M., 3,447,046.
Crittenden, William B.; and Utara, Susan T., 3,475,062.
Cromer, Charles F.; and Wolf, Charles B., 3,441,692.
Csakvary, Tibor, 3,483,442.
Currey, Charles F.; and Rydin, Roger A., 3,423,285.
Cuttino, William H., 3,473,089.
Danko, Joseph C.; and McCoy, Peter J., 3,430,079.
Darl C., Jr., 3,448,819.
Davis, Earl K., 3,469,161.
Day, William M., 3,482,063.
De Angelo, Gerald J., 3,470,336.
Decker, Richard W., 3,440,470.
Derrick, Robert P.; and Eisele, Hermann, 3,440,507.
Desmarchais, Walter E.; and Braun, Howard E., 3,445,971.
Dickerson, Henry A., 3,448,941.
Dixon, Austin, 3,467,806.
Dixon, Robert R.; and Flowers, Leonard C., 3,459,628.
Dolphin, Thomas J., 3,448,357.
Dougan, Roger R.; Thompson, Francis T.; and Rubner, Tibor, 3,444,324.
Downs, Robert E.; and Karbowski, John S., 3,480,807.
Duffy, Philip A., Jr., 3,449,574.
Duncan, Charles S.; and Scuro, Samuel J., 3,444,006.
Dzamba, Edward T., 3,426,480.
Eberhart, Arthur H., 3,434,498.
Eberhart, Arthur H., 3,448,590.
Eich, Walter J., 3,485,717.
Ellenburg, George W., 3,469,865.
Ellis, Belvin B., 3,451,130.
Ellsworth, James P.; and Thomas, Glenn R., 3,475,710.
Emerson, William A., 3,435,172.
Engel, Joseph C.; and Elms, Robert T., 3,483,429.
Engel, Joseph C., 3,486,070.
Ennulat, Dietrich F.; and Zollweg, Robert J., 3,476,969.
Evans, Palmer D., 3,485,041.
Ewers, Gerald M., 3,443,785.
Fallon, Bernard R., 3,480,816.
Fantozzi, Dominick M.; De Witt, Stewart H.; and Rahaim, Thomas J., 3,422,620.
Faust, John W., Jr.; John, Harold F.; and Rubenstein, Martin S., 3,447,976.
Faust, John W., Jr.; and John, Harold F., 3,473,974.
Feather, Landis E., 3,467,932.
Ferree, Herbert E., 3,447,118.
Ferree, Herbert E., 3,448,352.
Ferree, Herbert E.; and Doran, Raymond C., 3,450,962.
Ferree, Herbert E., 3,458,776.
Filipak, Edmund H., 3,448,244.
Findley, Joseph D., Jr., 3,427,419.
Fischer, Heinz G.; and Schroeder, James C., 3,449,633.
Fisk, Harold E.; and Willis, William J., 3,485,981.
Flowers, Leonard C.; and Berg, Daniel, 3,457,171.
Foley, Thomas P.; and Quick, Stanley L., 3,466,877.
Fouse, Samuel S., 3,458,647.
Fouse, Samuel S.; and Weimer, Charles L., 3,459,874.
Fox, Clyde C., 3,457,656.
Frink, Russell E.; and Walker, Clayton T., 3,447,114.
Frisch, Erling; and Brenner, William C., 3,467,076.
Fromson, Robert E., 3,445,372.
Fumea, Harry J., Jr.; and Leech, Robert W., Jr., 3,486,039.
Fuqua, Norman L., 3,478,670.
Fuqua, Norman L.; and Ambrose, John J., 3,478,671.
Fuqua, Norman L., 3,478,672.
Gainer, Gordon C.; and Luck, Russell M., 3,458,747.
Gallagher, Robert C.; and Barditch, Irving F., 3,440,503.
Gallagher, Robert C.; and Corak, William S., 3,448,353.
Gamble, James R., 3,437,554.
Garbuny, Max, 3,473,864.
Garrison, Lilburn H.; and Winter, William E., 3,459,152.
Gelzheiser, Francis L.; and Nystrom, Charles E., 3,467,933.
Georges, Nicholas J.; and Engel, Fred C., 3,486,973.
Gerard, William A., 3,435,285.
Gill, Joseph; and Rouvalis, George, 3,470,428.
Gilles, Wallace; Yamasaki, George K.; and Burger, J. C., 3,476,970.
Goetze, Gerhard W.; and Boerio, Alvin H., 3,441,787.
Goldie, Harry; Cooper, Herbert W.; and Cooper, Lawson F., 3,440,486.
Goldie, Harry; and Nelson, Theodore M., 3,467,883.
Goldie, Harry, 3,467,884.
Goldie, Harry, 3,480,828.
Goodman, Isaac S., 3,444,348.
Grable, Ronald C.; and Patzer, Hans E., 3,430,835.
Green, Martin; and Boerio, Alvin H., 3,440,478.
Green, Martin; and McDevitt, Howard I., Jr., 3,447,024.
Grekila, Richard B.; and Needham, Oliver S., Jr., 3,457,102.
Grekila, Richard B.; Ho, Shih-Ming; Knochel, William J.; and Lin, Francis C. M., 3,469,729.
Grimmer, Elmer J., 3,462,545.
Griswold, Douglas A.; Dick, Edward F.; and Kesser, Charles M., 3,456,076.
Grover, Elliott E., 3,423,279.
Guerra, Richard, 3,437,235.
Gunson, William E.; Sutherland, John D.; and Tower, Stephen N., 3,437,558.
Gyugyi, Laszlo, 3,448,300.
Gyugyi, Laszlo, 3,469,170.
Gyugyi, Laszlo; and Pelly, Brian R., 3,470,447.
Haake, Claus H., 3,449,692.
Hagberg, John E.; and Lensner, Herbert W., 3,470,418.
Hagen, Oskar, 3,427,082.
Hagg, Arthur C.; and Hoffman, Joseph H., 3,476,452.
Hair, Ronald A.; Hattrup, Gerald J.; and Bramble, John H., 3,421,925.

Hall, James A.; and Nicholson, James F., 3,469,141.
Hamilton, Donald R.; and Malmberg, Paul R., 3,447,069.
Harbour, Philip F., 3,436,929.
Harder, John E., 3,469,146.
Harnish, James R.; and Lessley, Byron L., 3,423,954.
Harnish, James R., 3,444,699.
Harper, Walter J.; and Ham, Edward J., 3,460,986.
Harrold, Ronald T., 3,444,413.
Hasell, Henry P.; and Chauvin, Bernard, 3,480,771.
Hatchard, Donald G., 3,469,052.
Hatten, Bernard W., 3,480,205.
Hayes, William E.; and Calhoon, Charles D., 3,440,876.
Heathcote, Thomas J.; and Stark, Michael, 3,450,056.
Heffron, Charles B., 3,437,877.
Heim, Richard C., 3,458,736.
Heim, Richard C., 3,474,271.
Heller, Ralph M., 3,423,729.
Hellstrom, Melbourne J., 3,457,519.
Hellstrom, Melbourne J., 3,460,050.
Helt, Wilson G.; and Smith, Jack K., 3,470,414.
Hierholzer, Frank J., Jr.; Metcalf, Gordon L.; and Karcher, Edmund A., 3,448,299.
Hirayama, Chikara; and Maniero, Daniel A., 3,460,902.
Hirsch, Le Roy D., 3,452,216.
Ho, Shih-Ming, 3,462,621.
Hoffmann, Arthur H., 3,470,435.
Hofmann, Charles F.; and Keto, August I., 3,433,893.
Hofmann, Charles F., 3,434,087.
Holtkamp, Calvin J., 3,424,425.
Holtkamp, Calvin J., 3,440,402.
Holtkamp, Calvin J., 3,462,583.
Holtkamp, Calvin J., 3,470,353.
Horstman, Clifford C., 3,456,224.
Hughes, Wayne E., 3,440,549.
Hull, Robert E., 3,437,836.
Hull, Robert E., 3,437,837.
Hull, Robert E.; and Stringer, Loren F., 3,440,447.
Humes, Karl R., 3,422,215.
Hursen, Thomas F., 3,449,603.
Ing, David W.; and Hunt, Thomas J., 3,486,953.
Innis, Robert T.; and Mercier, George E., 3,467,934.
Irwin, Edgar L., 3,431,421.
Jensen, Arthur S., 3,448,281.
Jensen, Paul A.; and Mann, William C., 3,451,042.
Johnson, Floyd D., 3,450,955.
Johnson, Frederick O.; and Rosa, John, 3,436,645.
Johnson, Frederick O.; and Finzi, Leo A., 3,444,455.
Jones, Brian L., 3,469,200.
Jones, Brian L., 3,487,324.
Jones, Donald W., 3,470,431.
Jones, Wesley N., 3,444,399.
Jones, William J., 3,440,882.
Joyce, Benjamin D., 3,423,255.
Kaiser, Francis D., 3,440,516.
Kasschau, Kenneth, 3,481,794.
Keiper, Phillip C., 3,448,364.
Kemeny, George A.; and Kienast, Peter F., 3,461,190.
Kemeny, George A.; Franzen, Wayne E.; Maniero, Daniel A.; and Bruning, Armin M., 3,474,279.
Kennon, Richard E., 3,443,223.
Kepple, Charles; Martello, Norman E.; and Zeise, Clarence L., Jr., 3,473,993.
Kernick, Andress, 3,427,526.
Kessler, Leland L., 3,440,521.
Keto, August I.; and Palumbo, Anthony J., 3,436,704.
Keto, August I., 3,485,503.
Kilgore, Lee A.; and Keay, Frederick W., 3,474,323.
Kircher, Paul J., 3,421,142.
Kircher, Paul J., 3,422,236.
Kircher, Paul J., 3,473,859.
Kisinko, Paul M.; and Ernick, Frederick G., 3,460,009.
Knochel, William J.; Lin, Francis C. M.; and Fraser, Hugh D., 3,422,300.
Knochel, William J.; and Lin, Francis C. M., 3,450,924.
Knochel, William J.; and Fraser, Hugh D., 3,461,334.
Knochel, William J.; Skwirut, Henry; and Lin, Francis C. M., 3,467,510.
Knorr, Gustave A., Jr.; and Young, Jing-Jue, 3,427,503.
Knorr, Gustave A., Jr., 3,452,243.
Kolnowski, Gene R., 3,470,482.
Koo, Ronald C., 3,443,143.
Korner, Renzo L.; and Patel, Himanshu M., 3,467,059.
Kozlovic, John M., 3,435,162.
Krummel, Donald E.; and Bowles, David L., 3,444,490.
Kumm, William H., 3,479,870.
Kyle, William K.; and Jensen, Erik H., 3,444,923.
Kyle, William K., 3,466,888.
Lane, Donald H., 3,481,795.
Larson, Daniel A., 3,431,447.
Larson, Daniel A., 3,452,238.
Leach, Robert D., 3,430,188.
Leeds, Winthrop M., 3,433,913.
Lempert, Irving E.; and Sillman, David, 3,427,408.
Leonard, Merrill G.; and Wright, Leonard L.., 3,421,130.
Leonard, Merrill G.; and Mances, Robert J., 3,461,259.
Leonard, Merrill G., 3,462,645.
Leonard, Merrill G., 3,469,223.
Leonard, Merrill G., 3,474,374.
Lessmann, Gerhard P.; and Jugan Michael R., 3,456,400.
Levan, ames L.; and Nicholson, James F., 3,441,785.
Ley, Gordon S.; and Cullom, John H., 3,467,916.
Lin, Hung C.; and Shiota, Philip S., 3,440,502.
Lin, Hung C., 3,448,256.
Lin, Hung Chang; and van Beek, Herman W., 3,448,397.
Lin, Hung Chang, 3,466,511.
Lin, Hung Chang, 3,470,390.
List, William F.; and Schuster, Marvin A., 3,480,780.
Lloyd, Wayne B., 3,422,965.
Lloyd, Wayne B., 3,440,825.
Longini, Richard L., 3,480,802.
Luppold, Robert H., Jr.; and Gill, Joseph, 3,435,355.
Macha, Edward A., 3,444,403.
Mandalakas, John N., 3,480,781.
Mann, William C., 3,427,539.
Mann, William C.; and Hayden, Leland E., 3,443,116.
Martello, Norman E.; and Kepple, Charles G., 3,473,992.
Martin, Harold W., 3,430,232.
Martin, Jack, 3,486,065.
Martincic, Paul W., 3,454,237.
Martz, Lyle F., 3,445,739.
Mazur, Robert G., 3,426,484.
Mc Clintock, Donald R., 3,460,237.
McAllister, Byron T.; and Good, Wilson C., 3,460,085.
McAllister, William A., 3,420,781.
McAllister, William A., 3,422,024.
McAllister, William A., 3,451,941.
McClure, Charles, Jr., 3,447,240.
McDaniel, Joe R., 3,458,780.
McFarland, Donald L.; and Robinson, Glen, 3,439,437.
McGee, Roger J.; and Metz, Ralph J., 3,474,342.
Mendelsohn, Morris A., 3,476,933.
Mercier, George E., 3,485,979.
Merola, Carl R.; and Mamrose, Wesley, 3,440,952.
Meyerhoff, Alfred; Stewart, William A.; Long, Arthur H.; and Kothmann, Richard E., 3,457,988.
Miller, Robert C.; and Ryan, Frederick M., 3,483,397.
Miller, Robert D.; and Gernhardt, Gordon G., 3,437,768.
Mills, John E.; and Getz, Edward J., 3,476,235.
Misencik, John J., 3,450,939.
Mole, Cecil J., 3,482,411.
Morehead, Chalmers, 3,422,299.
Motto, John W., Jr.; Fry, Warren C.; and Prunty, Ralph A., 3,461,319.
Munson, William A., 3,466,958.
Munson, William A., 3,476,268.
Nagel, George W., 3,485,058.
Narbut, Paul, 3,444,308.
Narbut, Paul; and Moore, Curtis L., 3,452,147.
Nelkin, Arthur; Durgin, Charles B.; Geil, Fred G.; and Thompson, John H., 3,438,021.
Nelson, Robert E., 3,475,076.
Nicholson, James F., 3,445,588.
Niewold, Andreas, 3,468,806.
Nix, Lawrence A., Jr.; and Surkovich, Albin M., 3,440,485.
Nocera, Joseph R.; and Berkowitz, David G., 3,487,295.
Nowalk, Thomas P.; and Ferree, Herbert E., 3,437,887.
Nowalk, Thomas P.; and Knopp, Adalbert, 3,475,235.
Pankow, Edmund G., 3,421,743.
Panoff, Robert; and Rockwell, Theodore, III, 3,446,171.
Parris, William J., 3,475,757.
Patrick, John L., 3,430,036.
Pesavento, Joseph A.; and Washburn, Darl C., Jr., 3,460,278.
Peterson, Carl A.; and Appel, Wallace H., 3,460,878.
Petts, George E., III, 3,422,361.
Picha, George J., 3,469,089.
Plagge, Vernon L., 3,422,393.
Pollock, Larry J., 3,421,205.
Pollock, Larry J.; and Shaunfield, Wallace N., 3,441,815.
Ponstingl, John C.; and Valvo, Joseph F., 3,423,657.
Popovich, Richard G., 3,480,825.
Prescott, Herbert L., 3,436,646.
Price, David B., 3,420,485.
Price, David B., 3,481,534.
Pulaski, John W., 3,444,280.
Putman, Richard E. J., 3,466,641.
Putman, Richard E. J., 3,468,166.
Putman, Richard E. J., 3,474,902.
Putnam, Richard E.; Brecher, Lee E.; Archer, Dave H.; and Zahradnik, Ray L., 3,437,325.
Putnam, Richard E., 3,460,393.
Rabinowitz, Mario, 3,440,376.
Rabinowitz, Mario; and Fox, Russell E., 3,462,573.

Radus, Raymond J., 3,453,876.
Ramey, Robert A., Jr., 3,460,929.
Ravas, Richard J., 3,424,948.
Ravas, Richard J., 3,459,961.
Rebuffoni, Martin; and Gamberg, Edward R., 3,440,395.
Reifenberg, Joseph H., 3,440,399.
Reifenberg, Joseph H., 3,453,779.
Reimer, Leon G., 3,485,455.
Richer, Benjamin F.; and Charlton, Thomas, 3,470,407.
Ristuccia, Donald J., 3,467,794.
Ristuccia, Donald J., 3,475,693.
Rockefeller, George D., Jr., 3,430,103.
Ropp, Richard C., 3,420,860.
Ropp, Richard C.; and Graff, Eugene A., 3,420,861.
Ropp, Richard C.; and Gritz, Edward E., 3,449,258.
Ropp, Richard C., 3,449,259.
Ropp, Richard C., 3,470,108.
Ropp, Richard C., 3,485,768.
Rosa, John, 3,444,457.
Ruggles, Norman A.; and Kaplan, Irving I., 3,461,407.
Rush, William A.; and Frankenstein, Harold L., 3,442,094.
Rushing, Frank C., 3,429,525.
Rushing, Frank C.; Murphy, Bernard J., Jr.; Hauser, Ralph I.; and Shephard, Basil S., 3,474,976.
Ryan, Charles C., 3,469,197.
Ryan, William T., Jr., 3,435,198.
Ryerson, Olaf R.; and Doring, Dieter, 3,474,261.
Sackinger, William M., 3,449,582.
Sanders, Terry D., 3,440,435.
Sauer, Louis E., 3,484,938.
Scalzo, Augustine J., 3,427,000.
Schaffner, Alfred C., 3,485,744.
Scheda, Francis A., 3,470,409.
Scheffler, Paul H., 3,459,133.
Scheffler, Paul H., Jr., 3,468,365.
Schlabach, Leland A.; and Gyugyi, Laszlo, 3,423,662.
Schlabach, Leland A., 3,441,823.
Schlabach, Leland A.; and Gyugyi, Laszlo, 3,444,451.
Schlabach, Leland A., 3,460,021.
Schlabach, Leland A.; and Rosa, John, 3,469,169.
Schmidt, Warren J., 3,457,506.
Schrank, Helmut, 3,480,885.
Schuster, Marvin A.; List, William F.; and Reinitz, Karl, 3,448,344.
Scott, Eugene W., 3,456,847.
Scott, Eugene W.; and Ter Bush, Charles F., 3,475,922.
Scott, Eugene W., 3,479,839.
Scullin, Carl H.; and Powell, Kenneth D., 3,440,565.
Seidel, Joseph; and Mendelsohn, Morris A., 3,483,052.
Sell, Heinz G., 3,452,231.
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Riel, Robert K., 3,421,943.
Shaikh, Mohammed S.; Tarneja, Krishan S.; and Amsterdam, Michael F., 3,421,946.
Shaikh, Mohammed S., 3,441,454.
Sherwood, Donald G.; and Widmer, Thomas F., 3,445,689.
Sherwood, Donald G.; and Rowe, Irwin, 3,486,095.
Shutterly, Harold B., 3,462,686.
Siedband, Melvin P., 3,481,341.
Silvius, Paul, 3,438,027.
Silvius, Paul, 3,440,382.
Sims, Robert J.; and Workman, Norma J., 3,474,646.
Skamfer, Robert E.; and Baker, Donal E., 3,486,038.
Skouson, Glenn W.; and White, Marvin H., 3,473,977.
Smith, Clarence M., 3,437,980.
Smith, Richard G., 3,476,349.
Snyder, Carl J., 3,470,470.
Sonnenberg, Charles F.; Whiteside, Joseph J.; and Painter, Dennis G., 3,459,881.
South, William H., 3,427,471.
Spangenberg, Clayton D., 3,468,807.
Specht, Theodore R.; and Lake, Glen W., 3,422,343.
Stalcup, Ernest F., 3,468,761.
Stark, Michael; and Bollibon, George E., 3,475,631.
Steele, David J., 3,470,436.
Stein, Gerhard M., 3,460,084.
Steinmetz, John J., Jr., 3,441,814.
Steinmetz, John J., Jr.; Ferree, Herbert E.; and Nowalk, Thomas P., 3,463,976.
Sternglass, Ernest J., 3,462,601.
Stringer, Loren F.; and Schonholzer, Emil T., 3,487,279.
Sullivan, Robert J., 3,422,276.
Sunden, Gunnar E., Jr., 3,440,557.
Suozzo, John; and Savino, Henry C., 3,467,223.
Sutherland, James F., 3,440,437.
Sutherland, James F., 3,468,164.
Swaneck, Anthony J.; and Wilcox, Charles A., 3,469,711.
Swaneck, Anthony J., Jr., 3,466,804.
Tarneja, Krishan S.; Rossi, Vito A.; and Maddalena, Joseph R., 3,457,427.
Tarneja, Krishan S.; Ernick, Fred G.; and Rossi, Vito A., 3,460,240.
Tauson, Peter O., 3,479,872.
Tench, John R., 3,457,119.
Tench, John R., 3,476,612.
Tenenbaum, Nathaniel D.; and Marieni, Gino J., 3,440,491.
Thompson, Francis T., 3,452,258.
Thompson, Francis T.; and Wavre, Andre, 3,469,082.
Thompson, Francis T., 3,486,041.
Thompson, John H., 3,480,906.
Thompson, Raymond, 3,475,624.
Thorel, John P.; and Sherwood, Donald G., 3,445,688.
Thorel, John P.; Downs, Robert E.; and Sherwood, Donald G., 3,445,690.
Thorel, John P.; Lee, Chia Huan; and Sherwood, Donald G., 3,448,303.
Thornton, William A., Jr., 3,431,134.
Thornton, William A., Jr., 3,460,962.
Tierney, Paul A., 3,429,819.
Tilus Carl W., 3,439,668.
Tilus, Carl W., 3,470,354.
Tomeo, Anthony; Nelson, John Allison; and Hoffmann, Arthur H., 3,440,509.
Toth, Julius, 3,422,381.
Townsend, Miles A., 3,446,483.
Trapp, Orlin D.; and Cannon, Don L., 3,479,862.
Tsai, Joseph C., 3,450,961.
Tsai, Joseph C., 3,450,963.
Tubbs, Lester G., 3,441,807.
Ulich, Michael D., 3,468,568.
Ulich, Michael D., 3,476,034.
Ulich, Michael D., 3,481,264.
van Beek, Herman W., 3,469,155.
Van Cleaf, Ronald F., 3,454,810.
van der Leest, Binne, 3,483,446.
Van Nice, Robert I., 3,477,052.
Van Sickle, Roswell C., 3,457,530.
Vercellotti, Leonard C.; and Madden, Richard J., 3,440,613.
Vercellotti, Leonard C.; and Brastins, Auseklis, 3,440,628.
Vercellotti, Leonard C.; and Johnson, Richard A., 3,440,629.
Vodoklys, Frank M.; and Ropp, Richard C., 3,430,090.
Vodoklys, Frank M., 3,435,271.
Vodoklys, Frank M.; and Mortensen, Gilbert P., 3,470,106.
Vogl, Thomas P.; and Pegis, Richard J., 3,468,594.
Voshall, Roy E., 3,480,750.
Wachter, William J.; and Smith, Keith V., 3,437,225.
Wagener, Paul W.; and Downhower, Francis H., Jr., 3,441,872.
Wagner, Charles L., 3,423,634.
Wagner, Howard A., 3,449,604.
Walker, Alec H. B., 3,437,909.
Wallace, James B.; Hamilton, William W., Jr.; and Pigan, Edward A., 3,482,202.
Wasemann, William A., 3,475,928.
Wasemann, William A., 3,481,161.
Watson, Guido, 3,470,452.
Watson, John D., 3,457,433.
Weems, Sterling J.; Hinds, John A.; and Mandil, Harry I., 3,423,286.
Weimer, Charles L.; and Shannon, Bill M., 3,444,311.
Weimer, Charles L.; and Shannon, Bill M., 3,459,872.
Wentz, John L., 3,429,636.
Wentz, John L., 3,429,637.
Wentz, John L., 3,460,885.
Whitehead, Daniel L., 3,448,202.
Whitney, Eugene C., 3,427,486.
Wigert, John W; and Lesster, Laban E., 3,449,629.
Williams, Lee C., 3,485,931.
Willis, Thomas G.; and Knecht, Eugene C., 3,440,370.
Winer, Bernard B.; and Keady, Richard J., 3,467,935.
Woermbke, James D.; and Kempic, Joseph A., 3,474,454.
Wolf, Charles B.; and Kemeny, George A., 3,452,239.
Wolf, Charles B., 3,476,861.
Wolf, Charles B.; Kemeny, George A.; and Fey, Maurice G., 3,480,717.
Wolley, Elden D., 3,440,113.
Wolley, Elden D., 3,484,854.
Wolley, Elden D., 3,487,276.
Wood, William H.; and Poston, Melvin H., 3,443,915.
Woods, Edmund E., 3,422,392.
Woods, Edmund E., 3,474,393.
Workman, Norma J., 3,475,831.
Wright, Charles D., 3,478,675.
Wright, Leonard L., 3,458,644.
Wright, Robert L., Jr.; and Sweet, William N., 3,469,100.
Yeakley, Glen E., 3,458,014.
Yorgin, Nick; and Maier, Alfred E., 3,460,075.
Yorgin, Nick; and Majcher, John, 3,462,716.
Young, Jing-Jue, 3,467,882.
Zalar, Stoyan M., 3,486,046.
Zehner, David W., 3,452,358.

Zido, Joseph E., 3,475,662.
Zido, Joseph E.; and Whalen, Thomas A., 3,476,987.
Zido, Joseph E., 3,476,988.
Zido, Joseph E., 3,486,084.
Zollinger, Howard A., 3,468,417.
Zollweg, Robert J.; and Ennulat, Dietrich F., 3,474,277.

Westinghouse Learning Corporation: *See—*
Langone, James Anthony, 3,471,223.

Westingouse Air Brake Company: *See—*
Gilbert, Chalmers W., 3,483,431.

Westix Corporation: *See—*
Golick, Alexander J.; and Stephan, John T., 3,444,109.

Westlake, Frank M.; and Van Der Heyden, Gabriel J. M., to Westlake-Van Der Heyden & Co. Orthopaedic splint. 3,454,002, 7-8-69, Cl. 128-87.

Westlake-Van Der Heyden & Co.: *See—*
Westlake, Frank M.; and Van Der Heyden, Gabriel J. M., 3,454,002.

Westland Aircraft Limited: *See—*
Cure, Ronald William Lewis, 3,470,962.
Furlong, Owen D.; Rowe, Alan C.; and Wright, Eric F., 3,444,875.
Furlong, Owen D., 3,452,665.
Furlong, Owen D. A. C., 3,429,248.
Furlong, Owen Desmond, 3,429,249.
Furlong, Owen Desmond, 3,457,847.
Jones, Richard Stanton, 3,425,505.
Robinson, Anthony George, 3,480,937.

Westland Plastics, Inc.: *See—*
Hanson, Lila M.; Hanson, Bernard B.; and McCutcheon, George H., 3,476,261.

Westland, Roger D., to Parke, Davis & Company. Aryloxyalkylaminoethyl thiosulfate compounds. 3,453,308, 7-1-69, Cl. 260-453.

Westland, Roger D., to Parke, Davis & Company. Phenylalkylaminoethyl thiosulfates. 3,453,309, 7-1-69, Cl. 260-453.

Westley, Alan: *See—*
Ritchie, David, 3,461,866.

Westley, Beatrice Rose: *See—*
Ritchie, David, 3,461,866.

Westling, Randolph E., to Gulf Oil Corporation. Method and apparatus for offshore anchoring. 3,431,879, 3-11-69, Cl. 114-206.

Westman, Eythor: *See—*
Lee, Robert E., 3,451,100.

Westman, Kevin: *See—*
Andrews, Kenneth Ernest; and Westman, Kevin,3,465,947.

Westmijze, Herman; and Raaben, Dirk J., to Algemene Kunstzijde Unie, N.V. Positioning apparatus for moving a body into a desired position. 3,486,400, 12-30-69, Cl. 77-32.9

Westmoreland Plastics Company: *See—*
Skinner, Harvey G., 3,434,694.

Westoak Machine Corporation: *See—*
Byrnes, James H.; and Cuny, Florian B., 3,473,270.

Weston, Charles D.; Gagnon, William J., Jr.; and Reynolds, Dwight W., to Dynac Corporation. Method and apparatus for detecting suspended particles. 3,462,608, 8-19-69, Cl. 250-218.

Weston Chemical Corporation: *See—*
Bersworth, Frederick C., 3,450,753.
Friedman, Lester, 3,433,856.
Friedman, Lester, 3,441,633.
Friedman, Lester, 3,442,982.
Friedman, Lester, 3,457,331.
Friedman, Lester, 3,463,837.
Friedman, Lester, 3,483,147.
Guttag, Alvin, 3,437,720.
Guttag, Alvin, 3,463,872.

Weston, David, to Aerofall Mills Limited. Slow magnetic drum ore separator control device. 3,429,439, 2-25-69, Cl. 209-223.

Weston, David. Simultaneous flotation of silica phosphates and carbonate minerals. 3,430,762, 3-4-69, Cl. 209-5.

Weston, David, to Aerofall Mills Limited. Fast magnetic drum ore separator control. 3,430,870, 3-4-69, Cl. 241-34.

Weston, David, to Aerofall Mills Inc. Material reduction mill. 3,469,795, 9-30-69, Cl. 241-176.

Weston, Harry William. Spraying booms. 3,447,750, 6-3-69, Cl. 239-167.

Weston Instruments, Inc.: *See—*
Andreaggi, Joseph R., 3,439,160.
Axford, Kenneth L., 3,471,792.
Boonshaft, Julius C.; and Zeuner, Kenneth W., 3,466,003.
Brophy, William R., Jr., 3,431,782.
Connolly, Joseph J., 3,466,460.
Dean, Derek John, 3,434,054.
Evans, Charles E.; and Nagy, John, Jr., 3,463,966.
Fuchs, Abraham M., 3,439,269.
Fuchs, Abraham M.; and Catania, Salvatore C., 3,466,431.
Goitiandia, Peter; and Kelly, Austin T., 3,439,181.
Huff, Earl C.; and Pattee, John R., 3,455,169.
Kaczorowski, John, Jr., 3,434,042.
Kirkendall, William D., 3,478,294.
Kishel, Joseph F., 3,452,599.
Lakshmanan, Tavorath K., 3,443,103.
Loeb, Alfred M., 3,473,371.
Luedeman, Robert T., 3,441,892.
Nagy, John , Jr., 3,474,258.
Nordahl, John G., 3,428,884.
Nordahl, John G.; and Kaczorowski, John, Jr., 3,434,041.
Nordahl, John G., 3,458,823.
Post, Frank E.; and Power, William A., 3,422,372.
Post, Frank E., 3,453,534.
Rew, Ian Arthur; Bell, Robert Valentine; and Cooper, Raymond, 3,428,897.
Richman, Peter L., 3,435,319.
Richman, Peter L., 3,453,529.
Richman, Peter L., 3,470,445.
Richman, Peter L., 3,480,794.
Richman, Peter L., 3,480,835.
Richman, Peter L., 3,486,014.
Stolar, Gerald, 3,474,338.
West, James L., 3,422,362.

Weston Laboratories, Inc.: *See—*
Foster, Raymond O., 3,472,738.

Weston, Lloyd B.: *See—*
Holste, Wallace H.; and Weston, Lloyd B.,3,453,990.

Weston, Norman Ann: *See—*
Susi, Peter Vincent; and Weston, Norman Ann,3,484,467.

Westover, Claude O. Safety door fastener. 3,480,316, 11-25-69, Cl. 292-175.

Westover, Jack D.; and Ferguson, Robert B., to Pillsbury Company, The. Process for preparing filtereable aqueous poly- saccharide solutions. 3,436,346, 4-1-69, Cl. 252-8.55

Westover, Jack D.: *See—*
Ferguson, Robert B.; and Westover, Jack D.,3,436,311.

Westphal, Dieter: *See—*
Lauppe, Heinz; and Westphal, Dieter,3,441,246.

Westphal, Dieter, to Danfoss A/S. Magnetic operated valve unit, particularly for gases. 3,446,471, 5-27-69, Cl. 251-52.

Westphal, Kurt: *See—*
Eue, Ludwig; Hack, Helmuth; Westphal, Kurt; and Wegler, Richard,3,472,646.

Westphal, Teddy M.: *See—*
Stec, Frederick J.; and Westphal, Teddy M.,3,450,301.

Westport Development & Manufacturing Company, Inc.: *See—*
Hellman, Robert R., 3,431,378.

Westronics, Inc.: *See—*
Winn, John, 3,441,277.

Westvaco Corporation: *See—*
Beichler, Robert W.; and Hubbard, William E., 3,451,610.
Cavagna, Giancarlo; and Walker, William C., 3,479,215.
Fredrickson, John H.; Hunger, Gunther K.; and Kohne, Harry F., Jr., 3,451,331.
Hunger, Gunther K., 3,486,482.
Lokey, Burke P., 3,470,796.
Lown, Charles S., 3,450,886.
Maurer, Hans W., 3,485,667.
Noll, Lawrence E.; and Farish, James F., 3,463,747.
Rigney, Ernest G., 3,486,404.
Stoertz, Robert W., 3,486,516.

Westwood, David John Sidney, to Ferguson Radio Corporation Limited. AC to DC Voltage conversion circuit. 3,477,011, 11-4-69, Cl. 321-15.

Westwood, Goeffrey W.: *See—*
Walker, James; and Westwood, Goeffrey W.,3,428,110.

Westwood Manufacturing Company, Inc.: *See—*
Guibert, Raul, 3,485,231.

Westwood, William D.: *See—*
Lewis, Derek C.; and Westwood, William D.,3,438,885.

Wetch, Joseph R.: *See—*
Balent, Ralph; Wetch, Joseph R.; and Cohen, Emanuel Richard,3,449,208.

Wetch, Joseph R.; and Bernath, Louis, to North American Rockwell Corporation. Plastic heat exchanger with antibuoyancy means. 3,438,432, 4-15-69, Cl. 165-138.

Wetherbee, Arthur E., Jr., to United Aircraft Corporation. Composite structure. 3,481,254, 12-2-69, Cl. 92-92.

Wetherell, Dean. Corn topper. 3,422,610, 1-21-69, Cl. 56-63.

Wetherell, Thomas: *See—*
Scardaville, Paul; Wetherell, Thomas; and Sears, Lawrence,3,427,206.

Wetherhold, James Richard: *See—*
Markowitz, Jerome; Griffith, Errol Robert; and Wetherhold, James Richard,3,445,579.

Wetherill, Frank E., to GAF Corporation. Process of preparing 1,4-butanediol. 3,449,445, 6-10-69, Cl. 260-635.

Wetmore, Arthur W.: *See—*
Smith, Willis R.; Frielinghaus, Klaus H.; and Wetmore, Arthur W.,3,449,717.

Wetmore, Arthur W., to General Signal Corporation. Logic circuitry for railroad crossing systems. 3,471,689, 10-7-69, Cl. 246-125.

Wetroff, Georges: *See—*
Chretien, Roland; and Wetroff, Georges,3,463,788.
Chretien, Roland; and Wetroff, Georges,3,475,462.

Chretien, Roland; and Wetroff, Georges,3,483,257.
Chretien, Roland; d'Ogny, Francois; and Wetroff, Georges,3,475,421.
Wetronic Company: *See*—
O'Neal, George, Jr., 3,452,283.
Wetstein, Henry: *See*—
Hyden, Seymour; Wetstein, Henry; and Wilbert, Godfrey,3,466,294.
Wilbert, Godfrey; Hyden, Seymour; and Wetstein, Henry,3,438,993.
Wetter, Franz, to Sachsenwerk Licht- und Kraft-Aktiengesellschaft. Switch actuating mechanism. 3,470,750, 10-7-69, Cl. 74-2.
Wetterberg, Erik Ernst Waldemar: *See*—
Andblad, Kjell Ingemar; Anvarn, Verner Valfrid; Samuelsson, Rune Paul; Odebo, Nils Einar; and Wetterberg, Erik Ernst Waldemar,3,481,107.
Wetterholm, Gustav Allan: *See*—
Harms, Maximilian; and Wetterholm, Gustav Allan,3,421,210.
Wettlen, Lars Malte Roland, to AB Tetra Pak. Package comprising a thin bag and a double-folded stiffening inserted into the body of the bag, and the procedure for the production of this package. 3,456,861, 7-22-69, Cl. 229-17.
Wettlen, Lars Malte Roland; and Christopherson, Curt Ingvar, to AB Tetra Pak. Plastic crate structure with lattice-work bottom. 3,443,717, 5-13-69, Cl. 220-66.
Wetton, Cecil Kenneth: *See*—
Rix, Frederick Noel; and Wetton, Cecil Kenneth,3,482,351.
Wettstein, Albert; Anner, Georg; Ehmann, Ludwig; and Wieland, Peter, to Ciba Corporation. Δ^1-7α-methyl-androstenes. 3,453,296, 7-1-69, Cl. 260-397.4
Wettstein, Albert; Anner, Georg; Heusler, Karl; Kalvoda, Jaroslav; and Ueberwasser, Hellmut, to Ciba Corporation. 3,17,19-Trioxygenated-Δ^5-androstenes. 3,458,539, 7-29-69, Cl. 260-397.1
Wettstein, Ernest C.: *See*—
Leone, James E.; and Wettstein, Ernest C.,3,428,915.
Wetzel, Ray C. Food-waste disposal apparatus. 3,443,764, 5-13-69, Cl. 241-46.
Wetzel, Robert E., to Uniroyal, Inc. Positive belt structure. 3,478,612, 11-18-69, Cl. 74-232.
Wetzel, Theodore A., to Kearney & Trecker Corporation. Laser cutting machine tool. 3,422,246, 1-14-69, Cl. 219-121.
Wetzel, William C., to Eltra Corporation. Electric horn with ungrounded base and insulated mounting bracket. 3,462,760, 8-19-69, Cl. 340-390.
Wetzler, Justin J., to Means, F. W., & Co. Web conditioning apparatus. 3,425,306, 2-4-69, Cl. 83-210.
Weum, Dale A., to Red Owl Stores, Inc. Water flow regulating and warning system. 3,446,242, 5-27-69, Cl. 137-557.
Wexell, Harry Wilhelm, to Brundell Och Jonsson AB. Method in sawing logs into boards, planks and sleepers. 3,452,793, 7-1-69, Cl. 144-312.
Wexell, Harry W., to Brundell & Jonsson Aktiebolag. Apparatus for the production of wood chips from logs. 3,461,931, 8-19-69, Cl. 144-162.
Wexler, Herman, to Continental Can Company, Inc. Process for preparing stereoregular acrylamide polymers with an alkali metal alkoxide and polyvalent metal salt catalyst. 3,422,081, 1-14-69, Cl. 260-89.7
Wey, Gino. Method of producing a continuous bore pile wall. 3,429,126, 2-25-69, Cl. 61-35.
Wey, Raymond: *See*—
Guth, Jean-Louis; and Wey, Raymond,3,433,736.
Weyand, John D., to Minnesota Mining and Manufacturing Company. Ceramic grinding media. 3,486,706, 12-30-69, Cl. 241-184.
Weyand, John E.: *See*—
Trasen, Ben; Weyand, John E.; and Rising, Donald B.,3,471,019.
Weyant, Valone V., to Bliss, E. W., Company. Quick release connection. 3,440,915, 4-29-69, Cl. 83-666.
Weycroft Macford Limited: *See*—
Lewis, Donald, 3,481,309.
Weyenberg, Donald R.: *See*—
Cekada, Joseph, Jr.; and Weyenberg, Donald R.,3,433,780.
Cekada, Joseph, Jr.; and Weyenberg, Donald R.,3,445,415.
Weyenberg, Lionel E. Resistor with terminal mounting means. 3,462,651, 8-19-69, Cl. 317-101.
Weyenberg, Lionel E. Resistor with strip terminals. 3,470,520, 9-30-69, Cl. 338-302.
Weyer, Donald E., to Dow Corning Corporation. High temperature fluid conduit. 3,422,855, 1-21-69, Cl. 138-141.
Weyer, Henry A., to Cambersburg Engineering Company. Mechanical pneumatic servo control system for high speed impact devices. 3,464,315, 9-2-69, Cl. 91-165.
Weyer, Rudi: *See*—
Aumuller, Walter; Weber, Helmut; Muth, Karl; Weyer, Rudi; and Schmidt, Felix,3,454,636.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Schmidt, Felix Helmut,3,448,149.
Aumuller, Walter; Weyer, Rudi; Weber, Helmut; Muth, Karl; and Peschke, Wilhelm,3,449,346.
Muth, Karl; Aumuller, Walter; Weyer, Rudi; and Weber, Helmut,3,420,882.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Felix,3,426,067.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Muth, Karl,3,435,116.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Schmidt, Flix Helmut,3,454,635.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; and Korger, Gerhard,3,483,297.
Weber, Helmut; Muth, Karl; Weyer, Rudi; Aumuller, Walter; and Schmidt, Felix Helmut,3,449,417.
Weyerhaeuser Company: *See*—
Allan, George G., 3,472,797.
Allan, George Graham, 3,470,148.
Allan, George Graham, 3,476,795.
Allen, Gilbert D.; and Grove, Gene A., 3,434,411.
Allison, Cecil Jay, Jr.; Jone, Paul Y.; and Jacobson, Paul E., 3,448,005.
Blickenderfer, Charles; Brookhyser, Byron B.; and Schliewe, Robert, 3,456,774.
Bridges, Robert L.; and Hasenwinkle, Earl D., 3,438,623.
Carrels, Howard J., 3,456,815.
Chase, Harry A., 3,438,847.
Currie, Grover C., Jr., 3,430,412.
Denton, Eric B.; and Sessinghaus, Desmond F., 3,486,606.
Dodge, Conant, 3,447,579.
Du Barry, Adrian P., Jr., 3,428,234.
Du Barry, Adrian P., Jr., 3,434,648.
Frankland, Albert Ernest, 3,453,132.
Fraser, Richard S.; and Jone, Paul Y., 3,476,585.
Hammond, Albert S., 3,434,221.
Houtz, Harold H.; and Carl, Allen E., 3,432,411.
Kreibich, Roland E.; Freeman, Harlan G.; and Baxter, Gene F., 3,422,068.
Mc Lauchlan, Thomas A.; and Fairfield, Louis R., Jr., 3,479,097.
McLauchlan, Thomas A.; and Arnold, Eugene W., 3,465,794.
Miller, Lewis S.; and Horowitz, Frederick, 3,476,695.
Milne, James A.; and Johnston, Robert E., 3,452,920.
Morris, Richard M., 3,431,162.
Oita, Katashi; Pierson, Darrell E.; Ottaway, James N.; and Caster, Richard W., 3,428,024.
Payne, Le Roy, 3,469,281.
Petersen, Donald H., 3,452,193.
Weyerhauser Company: *See*—
Perry, William D., 3,430,357.
Weyerts, Walter J., to Eastman Kodak Company. Dye developer image transfer systems. 3,431,107, 3-4-69, Cl. 96-3.
Weyerts, Walter John, to Eastman Kodak Company. Premordanted imbibition dye printing blank. 3,435,761, 4-1-69, Cl. 101-464.
Weygandt, Peter C.: *See*—
Poteate, Wilmer B.; and Weygandt, Peter C.,3,423,614.
Weyl, Reinhard: *See*—
Dietrich, Isolde; Berkl, Erhard; and Weyl, Reinhard,3,481,800.
Weyman, Daniel. Pryproof door striker. 3,442,543, 5-6-69, Cl. 292-340.
Weyrauch, Adolf, to Zeiss-Stiftung, Carl, d/b/a Zeiss, Carl. Displacement measuring device using gratings having slits at specified spacings and at specified angle to eliminate harmonics. 3,427,463, 2-11-69, Cl. 250-237.
Weyrich, Arthur G.; and Engelmann, Werner. Read out ring signalling device. 3,474,753, 10-28-69, Cl. 116-114.
Weyrich, Arthur G.; and Tellen, Chester J., to Amerline Corporation. Reel structure. 3,485,456, 12-23-69, Cl. 242-71.8
Weyrick, Harvey W.: *See*—
Strom, John R.; and Weyrick, Harvey W.,3,465,550.
Weyrick, Harvey W., to Systematix Controls, Inc. Control of chlorine dioxide bleaching. 3,486,971, 12-30-69, Cl. 162-238.
Weyrick, Robert C.: *See*—
Rader, Edwin R.; and Weyrick, Robert C.,3,460,052.
Wezel, Hans; and Schuhmann, Kurt, to Schmid & Wezel. Implement for reciprocating a tool with an adjustable stroke. 3,465,601, 9-9-69, Cl. 74-45.
Wezel, Walter; and Schumann, Kurt, to Schmid & Wezel. Apparatus for skinning animals. 3,435,522, 4-1-69, Cl. 30-219.
W.G.B. Oil Clarifier, Inc.: *See*—
Gray, Donald M.; Burhans, Hollis M.; and Gray, Wendell H., 3,476,249.
Whal Clipper Corporation: *See*—
Fox, James H., 3,479,540.
Whale, William Edward: *See*—
Burgess, John Llewellyn; Daniels, Barrie; and Whale, William Edward,3,462,811.
Daniels, Barrie; and Whale, William Edward,3,468,118.
Whalen, Gerald W., to International Business Machines Corporation. Circuit for initiating a pulse a predetermined time interval after the center (or other position) of an incoming pulse. 3,461,389, 8-12-69, Cl. 328-109.

Whalen, Henry F., Jr., to Rohm & Haas Company. Weather-stable laminate. 3,473,996, 10-21-69, Cl. 161-6.

Whalen, Joan: *See—*
Yetter, Harry G., 3,455,452.
Yetter, Harry G., 3,483,975.

Whalen, Joseph: *See—*
Yetter, Harry G., 3,483,975.

Whalen, Joseph I.: *See—*
Yetter, Harry G., 3,455,452.

Whalen, Robert A. Collapsible type electrical connector. 3,440,591, 4-22-69, Cl. 339-14.

Whalen, Thomas A.: *See—*
Zido, Joseph E.; and Whalen, Thomas A.,3,476,987.

Whalen, Thomas J.; and Van Alsten, Roy L., to Ford Motor Company. Aqueous based lapping composition. 3,462,251, 8-19-69, Cl. 51-302.

Whalen, Thomas J.; and Van Alsten, Roy L., to Ford Motor Company. Sealing member for high temperature applications and a process of producing the same. 3,481,715, 12-2-69, Cl. 29-195.

Whaley, Baynard R.; and Bradley, William D., to Sonoco Products Company. Spirally wound paper tube. 3,421,550, 1-14-69, Cl. 138-144.

Whaley, Howard Arnold: *See—*
Patterson, Ernest Leonard; Whaley, Howard Arnold; and Ellestad, George Alfred,3,452,051.

Whaley, Morris L. Purse ring stripper and method of using same. 3,481,065, 12-2-69, Cl. 43-4.5

Whaley, Robert E. Container closure. 3,421,653, 1-14-69, Cl. 220-60.

Whaley, Thomas P.; and Wood, James M., Jr., to United States of America, Atomic Energy Commission. Vapor plating beryllium. 3,450,558, 6-17-69, Cl. 117-107.2

Whaley, William F. Combined diving catapult and swimming pool. 3,466,053, 9-9-69, Cl. 272-65.

Whalin, Ronald L.: *See—*
Pasternack, Gerald P.; and Whalin, Ronald L.,3,449,691.

Wham-O Mfg., Co.: *See—*
Cook, Donald L.; Hansen, Douglas R.; and Gillespie, Richard L., Sr., 3,463,361.

Whang, Sang Y.; Bleckner, Edward, Jr.; Weiss, Burton J.; and Payne, Paul E., to Milgo Electronic Corporation. Intercept corrector and phase shifter device. 3,453,552, 7-1-69, Cl. 328-155.

Whann, R. Welton: *See—*
Kemper, James M., 3,485,161.

Wharton, Armistead, to Xerox Corporation. Web material handling apparatus. 3,466,959, 9-16-69, Cl. 83-205.

Wharton, Paul B., Jr., to Kinetics Container Corporation. Contoured packaging and shipping container. 3,474,950, 10-28-69, Cl. 299-23.

Wharton, Robert G. Container construction. 3,476,279, 11-4-69, Cl. 217-12.

Wharton, Willard H.; and Cooper, Barry A., to Dow Chemical Company, The. Polyolefin blend having hot tack strength. 3,478,131, 11-11-69, Cl. 260-897.

Whateley, Eric Albert: *See—*
Lamburn, Alan Salisbury; Abbott, Randle Leslie; Whateley, Eric Albert; and Clark, George Kenneth,3,472,098.

Whatley, Blanche E. Earring with means for lightly gripping the lobe, including means to frictionally contact the ear rear wall. 3,459,007, 8-5-69, Cl. 63-14.

Whatley, Charles W.: *See—*
Opferkuch, Robert E., Jr.; and Whatley, Charles W.,3,455,862.

Whatley, Lucius D., Jr.: *See—*
Cook, Rufus Lee; and Whatley, Lucius D., Jr.,3,470,394.

Whatley, Marvin E.: *See—*
McNeese, Leonard E.; Watson, Jack S.; and Whatley, Marvin E.,3,472,633.

Whatley, Thomas A., to Hewlett-Packard Company. Vapor gap osmometer. 3,486,367, 12-30-69, Cl. 73-64.3

Whear, Alfred L. Moisture actuated device. 3,426,539, 2-11-69, Cl. 61-13.

Wheat, Lawrence C.: *See—*
Miller, Alfred H.; Perry, Glenn; and Wheat, Lawrence C.,3,421,180.

Wheatley, Carl F., Jr., to Radio Corporation of America. Television deflection system including AFC circuit with regenerative phase detector. 3,441,673, 4-29-69, Cl. 178-69.5

Wheatley, Carl F., Jr., to RCA Corporation. Television deflection circuits. 3,449,622, 6-10-69, Cl. 315-27.

Wheatley, Charles, Company: *See—*
Fitzpatrick, John R., 3,463,189.
Walker, William E., Jr., 3,450,164.

Wheatley, Charles E., III, to North American Rockwell Corporation. Phase lock demodulator. 3,465,258, 9-2-69, Cl. 329-122.

Wheatley, Donald G.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,420,338.

Wheatley, James Herbert William, to Hovercraft Development Limited. Gas-cushion vehicles with tapered skirts. 3,467,214, 9-16-69, Cl. 180-127.

Wheatley, Robert T. Method for cleaning flexible hoses and pipes. 3,442,705, 5-6-69, Cl. 134-1.

Wheatley, Seth J.; and Rains, David B., to United States of America, Atomic Energy Commission. Phenolic foam composition. 3,484,391, 12-16-69, Cl. 260-2.5

Wheaton, Harold L., to Martin-Marietta Corporation. Cobalt-base alloy. 3,432,294, 3-11-69, Cl. 75-171.

Wheaton, Herbert F.: *See—*
David, Charles; and Wheaton, Herbert F.,3,470,667.

Wheaton, Jack M., to Owens-Illinois, Inc. Composite closure. 3,480,173, 11-25-69, Cl. 215-56.

Wheaton, Jack M.: *See—*
Wagner, Warren L.; and Wheaton, Jack M.,3,465,906.

Wheaton, Robert M.: *See—*
Wymore, Charles E.; and Wheaton, Robert M.,3,438,892.

Wheelabrator Corporation, The: *See—*
Davidson, Hubert, 3,481,080.

Wheelees, Inc.: *See—*
Finn, Lawrence A., 3,476,399.

Wheeler, Dennis A., to Baker Perkins, Inc. Mixing apparatus. 3,458,894, 8-5-69, Cl. 18-2.

Wheeler, Donald B.: *See—*
Kennedy, Walter B.; and Wheeler, Donald B.,3,483,070.

Wheeler, Donald H., to General Mills, Inc. Magnesium silicate catalyzed polymerization of unsaturated fatty acids. 3,444,220, 5-13-69, Cl. 260-407.

Wheeler, Donald H.: *See—*
Nazy, John R.; and Wheeler, Donald H.,3,449,423.

Wheeler, Donald James, to Roller Shear Corporation. Strip shearing apparatus. 3,476,000, 11-4-69, Cl. 83-162.

Wheeler, Donald J.; and Lohrenz, Victor, to Guild Metal Joining Equipment Company. Method and apparatus for joining strip material. 3,431,386, 3-4-69, Cl. 219-78.

Wheeler, Edward N.: *See—*
Aguilo, Adolfo; Fisher, Gene J.; and Wheeler, Edward N.,3,465,032.
Schnizer, Arthur W.; and Wheeler, Edward N.,3,462,484.

Wheeler, Edwin L., to Conrac Corporation. Analog to digital encoder. 3,487,460, 12-30-69, Cl. 340-347.

Wheeler, Ernest E.: *See—*
Ricketts, Colin J.; Bodnar, Andrew J.; Braithwaite, Frederick T.; Johnson, Seward R.; and Wheeler, Ernest E.,3,484,549.

Wheeler, Foster, Corporation: *See—*
Berman, Irwin; and Pai, David H., 3,438,113.

Wheeler, Harry L., Jr., to Bendix Corporation, The. Frequency multiplier for fluid state systems. 3,456,668, 7-22-69, Cl. 137-81.5

Wheeler, Harvey B., to Neville Chemical Company. Terpene copolymers. 3,478,005, 11-11-69, Cl. 260-80.7

Wheeler, Harvey B.; and D'Amico, Eugene P., to Neville Chemical Company. Soluble, high melting dicyclopentadiene polymer type resin, its process of manufacture and its use in compositions such as printing inks. 3,468,837, 9-23-69, Cl. 260-33.6

Wheeler, John L.; and Powers, William D., to Xerox Corporation. Synchronization monitor apparatus. 3,472,961, 10-14-69, Cl. 178-69.5

Wheeler, John Watson: *See—*
Nixon, Earl Hollis; and Wheeler, John Watson,3,467,859.

Wheeler, Kenneth J., to Stephen, Alexander & Sons Limited. Carrier device. 3,474,924, 10-28-69, Cl. 214-390.

Wheeler, Kenneth J., to Norcon (Norris) Limited. Machine tool programmer. 3,475,996, 11-4-69, Cl. 77-25.

Wheeler, Kenneth John; and Ward, Edward John, to Norcon (Norris) Limited. Fluid control switching arrangements. 3,474,828, 10-28-69, Cl. 137-625.6

Wheeler, Marshall L., Jr.: *See—*
Kanner, Bernard; and Wheeler, Marshall L., Jr.,3,471,588.

Wheeler, Max R., to Power Replacements, Inc. Heat exchanger assembly for air preheater. 3,465,815, 9-9-69, Cl. 165-10.

Wheeler, Phillip R.: *See—*
Ruff, John D.; and Wheeler, Phillip R.,3,447,335.
Ruff, John D.; and Wheeler, Phillip R.,3,449,922.

Wheeler, Raymond T., to Jackes-Evans Manufacturing Company. Mover apparatus for telescoping gymnasium seat assembly. 3,452,491, 7-1-69, Cl. 52-10.

Wheeler, Robert Charles: *See—*
Gantt, Robert Dwight; and Wheeler, Robert Charles,3,463,881.
Rhee, Dong W.; and Wheeler, Robert Charles,3,440,481.

Wheeler, Robert G., to Wood Processes, Oregon Ltd. Process for making a textured surface panel. 3,474,706, 10-28-69, Cl. 90-24.

Wheeler, Rodney Edward William: *See—*
Lane, Peter John; and Wheeler, Rodney Edward William,3,459,899.

Wheeler, Terence Redvers: *See—*
Kemp, Kenneth Albert Walters; and Wheeler, Terence Redvers,3,476,050.
Kemp, Kenneth Albert Walters; and Wheeler, Terence Redvers,3,485,175.

Wheeler, Thomas Percy, to FMC Corporation. Self-troughing self-releasing conveyor. 3,469,676, 9-30-69, Cl. 198-201.

Wheeler, William R., to Varian Associates. Metal vacuum joint. 3,458,221, 7-29-69, Cl. 285-331.

Wheeling Steel Corporation: *See—*
Hehn, Bruce, 3,444,663.
Wheelock, David Bent; and Buckley, Robert, to Quickfit & Quartz Limited. Centrifuge. 3,428,249, 2-18-69, Cl. 233-22.
Wheelock Signals, Inc.: *See—*
Swideraki, Edward, 3,444,492.
Teeple, Stanley W., 3,440,649.
Wheelock, Silas M. Method and apparatus for skein winding of yarns. 3,426,408, 2-11-69, Cl. 28-21.
Wheelus, Charles Glenn, to Arizona Chemical Company, mesne. Rosin compounds of improved color and stability. 3,423,389, 1-21-69, Cl. 260-97.5
Wheelwright, Earl J., to United States of America, Atomic Energy Commission. Ion exchange process for recovering americium and curium. 3,445,201, 5-20-69, Cl. 23-338.
Whelan, Charles N., to United States of America, Army. Projectile fuze capable of self-destruction. 3,425,352, 2-4-69, Cl. 102-71.
Whelan, James E.: *See—*
Levy, Irving M.; and Whelan, James E.,3,439,201.
Whelan, John Campbell. Apparatus for exchanging heat between a gas and a particulate matter. 3,484,948, 12-23-69, Cl. 34-57.
Whelchel, Carl J.: *See—*
Mangum, Grafton F.; and Whelchel, Carl J.,3,426,528.
Whelply, Frank V.: *See—*
Jacoby, Charles H.; and Whelply, Frank V.,3,428,571.
Whessoe Limited: *See—*
Todd, Gordon; and Shields, Edward Francis, 3,448,886.
Whetstone, Herbert H.: *See—*
Slawinski, Frank E.; and Whetstone, Herbert H.,3,420,173.
Whetten, Nathan Rey: *See—*
Stout, Virgil L.; and Whetten, Nathan Rey,3,461,306.
Wheway, Francis Owen. Joint constructions for spectacle frames. 3,473,188, 10-21-69, Cl. 16-128.
Whewell, Robert, J., to Warner & Swasey Company, The. Method of making multistrand textile cord. 3,481,134, 12-2-69, Cl. 57-160.
Whiffen & Sons Limited: *See—*
Needham, Brian John; and Smith, Michael Arthur, 3,469,940.
Whigham, Dale M.: *See—*
Amsterdam, Michael F.; and Whigham, Dale M.,3,457,467.
Whilems, Charles Joseph. Optical windows for lasers. 3,420,603, 1-7-69, Cl. 350-319.
Whipperman, Ronald L.: *See—*
Mahon, John V.; Smith, William P.; and Whipperman, Ronald L.,3,486,682.
Whipple, Clyde Lee: *See—*
Keil, Joseph Woodward; and Whipple, Clyde Lee,3,460,981.
Whipple, James H.: *See—*
Meade, William H.; and Whipple, James H.,3,481,056.
Whipple, Melvin M. Pressure roll drives. 3,480,053, 11-25-69, Cl. 144-213.
Whipple, Raymond T.: *See—*
Ward, Abraham W.; and Whipple, Raymond T.,3,479,041.
Whipstock, Inc.: *See—*
Jeter, John D.; and Harris, Horace C., Jr., 3,424,256.
Whirlpool Corporation: *See—*
Barnard, Walter C.; and Burkinshaw, Kennith E., 3,458,241.
Barnard, Walter C.; and Coburn, Robert W., Sr., 3,459,462.
Bedrosian, Karakian; and Robach, Donald L., 3,445,240.
Bottas, Michael J., 3,421,860.
Brown, Gordon H., 3,427,507.
Buchser, William J., 3,474,637.
Cargo, Kenneth F.; and Nichols, Duane C., 3,464,673.
Clearman, Jack F.; and Barnard, Walter C., 3,433,363.
Drury, Chauncey R., 3,469,947.
Eggert, Thomas F.; and Robinson, James M., 3,477,088.
Elders, Alvin J., 3,471,938.
Fleck, George J.; and Bryant, Eugene E., 3,452,385.
Frick, Harold L., 3,446,941.
Harrison, Bobby G., 3,472,149.
Hupfer, Harold Matthew, 3,432,878.
Janke, Donald E., 3,471,939.
Koenig, Andrew C., 3,472,044.
Koland, David G., 3,444,577.
Koland, David G.; and Robinson, James M., 3,456,279.
Koland, David G., 3,461,741.
Koland, David G., 3,477,086.
Kruggel, Roy W., 3,421,859.
Lamp, James K., Jr., 3,445,193.
Lannert, James W.; Townsend, George E.; and Schrage, David W., 3,453,085.
Lannert, James W.; and Anderson, James J., 3,477,825.
Lopp, Charles R.; and Ruspino, James G., 3,436,029.
Lustig, Leonard C., 3,421,803.
Lyman, John B., 3,444,870.
Madden, Richard E., 3,457,929.
Mason, Anthony, 3,473,351.
McBride, Harold O.; Tichy, Oscar A. W.; and McNish, Howard G., 3,478,373.
McBride, Harold Oren; and Gartley, William H., 3,478,374.
McGill, John N., 3,453,119.
Mischke, Charles R., 3,446,044.
Nichols, Duane C., 3,477,009.
Niewyk, Anthony; and McConnell, James L., 3,484,772.
Peters, Harold P.; and Woods, John T., 3,461,610.
Peyer, Wilbur G.; and Ruspino, James G., 3,421,704.
Phillips, Benjamin A.; and Roeder, John, Jr., 3,466,893.
Roeder, John, Jr., 3,465,541.
Scheitlin, Thomas G.; Hames, William A.; and Koch, Alan J., 3,433,031.
Schwenker, Eric H., 3,434,239.
Scroop, Francis R., 3,442,563.
Severance, Glen R., 3,446,043.
Skruch, Norman J.; Nelson, Alvin I.; and Reiter, Alexander L., 3,447,337.
Sorlie, Norman L., 3,444,618.
Sorlie, Norman L., 3,486,703.
Spiegel, Raymond W.; Robandt, William F.; and Platt, Clark I., 3,429,444.
Stewart, Bruce E., 3,423,036.
Taylor, Raymond F., 3,420,482.
Thomas, Jess W.; Brown, Joshua R. C.; and Anderson, James J., 3,445,194.
Tope, Paul H.; and Schmidt, Siegfried, 3,421,826.
Vander Molen, Donald R., 3,445,725.
Walker, Douglas J.; and Tichy, Oscar A. W., 3,477,258.
Whiscombe, John Brian: *See—*
Rigden, Sydney Alfred Richard; and Whiscombe, John Brian,3,473,071.
Rigden, Sydney A. R.; and Whiscombe, John B.,3,428,846.
Whisler, Forrest B. Adjustable scaffold. 3,464,519, 9-2-69, Cl. 182-141.
Whisler, Ralph H., Jr., to Oldberg Manufacturing Company. Hydraulic shock absorber and flow control means therefor. 3,470,986, 10-7-69, Cl. 188-100.
Whistler, Charles C., Jr.: *See—*
Brinkman, Thomas J.; Fogt, Thomas H.; Long, George B.; and Whistler, Charles C., Jr.,3,475,829.
Whiston, Donald H.; and Flannery, Edward J., to Vapor Corporation. Drive means for cupola of tank vehicle. 3,429,222, 2-25-69, Cl. 89-41.
Whitacre, Donald P.; and Hass, Victor E., said Hass assor. to said Whitacre. Machine for making a wire cage. 3,437,114, 4-8-69, Cl. 140-112.
Whitacre, Horace E., to United States of America, National Aeronautics and Space Administration. Quick release hook tape. 3,469,289, 9-30-69, Cl. 24-205.17
Whitacre, John R.; and Jenkin, William C., to Union Carbide Corporation. Metallizing plastics by gas plating. 3,466,229, 9-9-69, Cl. 204-30.
Whitake, Ranald O. Force transfer electrical relay. 3,457,533, 7-22-69, Cl. 335-192.
Whitaker, Arthur C.: *See—*
Lese, Henri K.; Schulz, Johann G. D.; and Whitaker, Arthur C.,3,479,400.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C.,3,453,321.
McCracken, John H.; Schulz, Johann G. D.; and Whitaker, Arthur C.,3,466,301.
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo,3,424,789.
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo,3,467,698.
Whitaker, Brackston T. Swimming pool cleaning system. 3,464,068, 9-2-69, Cl. 4-172.
Whitaker, Christian A. Electrically activated therapeutic chair. 3,463,145, 8-26-69, Cl. 128-24.
Whitaker, Forest J.; and McInerney, John B. Ski lock. 3,429,152, 2-25-69, Cl. 70-58.
Whitaker, Howard L.: *See—*
Narken, Bernt; and Whitaker, Howard L.,3,437,505.
Whitaker, John G.: *See—*
Hanny, John F.; Shafer, Robert J.; and Whitaker, John G.,3,485,132.
Marinelli, Nicola; and Whitaker, John G.,3,467,544.
Yoncoskie, Robert A.; Kass, Robert E.; Hanny, John F.; and Whitaker, John G.,3,455,848.
Whitaker, Ranald O. Binary relay utilizing armature inertia for shifting binary positions. 3,444,491, 5-13-69, Cl. 335-128.
Whitaker, Ranald Otis. Noise immunity circuitry for TV remote controls. 3,471,833, 10-7-69, Cl. 340-171.
Whitaker, Reginald Lyon: *See—*
Popoff, Ivan C.; and Whitaker, Reginald Lyon,3,453,099.
Whitaker, Sidney L. Structure for concentrating radiant energy. 3,453,425, 7-1-69, Cl. 240-41.1
Whitaker, Stuart H.: *See—*
Kelsey, Ernest S.; and Whitaker, Stuart H.,3,423,683.
Whitaker, Watford C.; and De Michael, Frank. Antisiphon faucets. 3,424,188, 1-28-69, Cl. 137-218.
Whitaker, William C., to Reynolds Metals Company. Apparatus for and method of making a cigarette package construction or the like. 3,435,735, 4-1-69, Cl. 93-12.

Whitbread, John Raymond: *See—*
Berry, Allan David; Johnson, Maurice Peter; and Whitbread, John Raymond,3,449,525.
Pfyffer, Hans Karl; and Whitbread, John Raymond,3,424,858.
Whitcomb, John G.: *See—*
Erickson, Wallace R.; and Whitcomb, John G.,3,486,501.
White, Alan D., to Bell Telephone Laboratories, Incorporated. Laser mode selection apparatus. 3,435,371, 3-25-69, Cl. 331-94.5
White, Alan J., to American Schack Company, Inc., The. Spine recuperator. 3,446,277, 5-27-69, Cl. 165-136.
White, Alan J.; and Meder, Siegfried R., to American Schack Company, Inc. The. Air-cooled radiation recuperator. 3,446,279, 5-27-69, Cl. 165-155.
White, Andrew J. Gauge to measure tread depth of a tire. 3,435,530, 4-1-69, Cl. 33-172.
White, Andrew J. Window apparatus having a signal. 3,441,925, 4-29-69, Cl. 340-274.
White, Arthur John, to American Can Company. Side opening container. 3,441,197, 4-29-69, Cl. 229-51.
White, Arthur R.: *See—*
Beach, John M.; Cecil, Harry H.; White, Arthur R.; and Ziegler, George S.,3,423,104.
White, Arthur R.; and Beach, John M. Directional rotation responsive trailer brake apparatus. 3,460,654, 8-12-69, Cl. 188-141.
White, Boyce Robert. Roofing device and method. 3,438,170, 4-15-69, Cl. 52-748.
White, Bruce G.: *See—*
Bugg, Alfred Edward, 3,463,002.
White, Burch B.: *See—*
Barrow, Marvin A., 3,422,865.
White, Carl B., to Union Industrial Equipment Corporation. Sensing and recording gas concentration. 3,460,153, 8-5-69, Cl. 346-33.
White, Carlos A.: *See—*
Cords, Helmuth; and White, Carlos A.,3,420,933.
White, Charles Clayton; and Crowell, James Sheffield, to Eastman Kodak Company. Composition and method for treating tobacco smoke filter tow. 3,422,043, 1-14-69, Cl. 260-17.
White, Charles Edward: *See—*
Bellinger, Ronald; Sperring, James Alfred; and White, Charles Edward,3,426,702.
Kostin, Richard M.; and White, Charles E.,3,472,095.
White, Charles S.: *See—*
Dodson, Gerald E.; and White, Charles S.,3,455,864.
White, Charles S. Low friction bearing assembly. 3,458,223, 7-29-69, Cl. 287-87.
White, Claude C. Mine roof support system. 3,427,811, 2-18-69, Cl. 61-45.
White, Claude C. Reamer. 3,454,118, 7-8-69, Cl. 175-289.
White, Claude F.: *See—*
Goloff, Alexander; Hautala, Richard E.; and White, Claude F.,3,478,411.
Oberle, Theodore L.; Calton, Marion R.; Loyd, Calvin D.; and White, Claude F.,3,435,510.
White, Clyde A. Well drilling bit. 3,463,256, 8-26-69, Cl. 175-412.
White Consolidated Industries, Inc.: *See—*
Lander, Stanley C., 3,438,147.
Patrick, Malcom W.; and Forniti, Philip M., 3,424,146.
Ravich, Leonard E., 3,432,262.
Stanley, Robert C., 3,435,681.
White, Cyril, to Harrimonde Limited. Attachment for sewing machine. 3,472,189, 10-14-69, Cl. 112-252.
White, Dale E.: *See—*
White, John B., 3,487,423.
White, Darrell N., 1/2 to Henderson, Bruce. Expandable house trailer. 3,469,356, 9-30-69, Cl. 52-71.
White, David B.; and Ruble, Harold P., to La-Z-Boy Chair Company. Recessed furniture handle. 3,484,133, 12-16-69, Cl. 297-69.
White, David E.: *See—*
Handwerk, Joseph Henry; and White, David E.,3,425,115.
White, Desmond Deverell, to Dufaylite Developments Limited. Structural honeycomb material. 3,475,252, 10-28-69, Cl. 156-353.
White, Donald H.: *See—*
Works, John D.; White, Donald H.; and Campbell, Alan M.,3,453,932.
White, Donald K.: *See—*
Shaw, John S.; Dostel, John J.; White, Donald K.; Elste, Edwin S.; Kellogg, John F.; and O'Neale, John D.,3,460,827.
White, Donald W., Jr., to General Electric Company. Fuel cell with tubular electrodes and solid electrolyte. 3,460,991, 8-12-69, Cl. 136-86.
White, Donald W., to General Electric Company. Method of preparing chromium-lithium alloys. 3,432,292, 3-11-69, Cl. 75-135.
White, Donald W., to General Electric Company. Electrical device comprising solid electrolyte and composite gas-impervious electrode. 3,445,293, 5-20-69, Cl. 136-86.
White, Donald W.; Tragert, William E.; and Rocco, William A., to General Electric Company. High temperature fuel cell having a palladium film between the anode and electrolyte. 3,432,352, 3-11-69, Cl. 136-86.
White, Edward L.: *See—*
Kebrich, Leonard M.; and White, Edward L.,3,440,213.
White, Edward S.; Krueger, Clement C.; and Rosenthal, Donald S., to Allen Aircraft Radio, Inc. Radio magnetic indicator. 3,460,146, 8-5-69, Cl. 343-112.
White, Edwin L.: *See—*
Brazell, James W.; Perkins, James T., Jr.; and White, Edwin L.,3,433,366.
White, Ellsworth J. Baseball bat having blades extending outwardly therefrom. 3,463,492, 8-26-69, Cl. 273-72.
White, Elwood V., to Georgia-Pacific Corporation. Manganese trace metal supplement stabilized with hexametaphosphate. 3,436,204, 4-1-69, Cl. 71-1.
White, Eugene B., Jr., to Whiting Corporation. Railway car moving vehicle. 3,420,191, 1-7-69, Cl. 105-73.
White, Eugene B. Filter cell. 3,458,047, 7-29-69, Cl. 210-282.
White, Eugene Robert, to General Electric Company. Fuel cell unit equipped to consume excess gaseous reactant. 3,438,814, 4-15-69, Cl. 136-86.
White, Eve D. Brassiere construction. 3,467,105, 9-16-69, Cl. 128-425.
White, F. E., Company, Inc.: *See—*
Tomiyama, Eijiro, 3,471,963.
White, Frank F.; Tanno, Norman J.; and Chipps, Elmer T., to Automation Development Corporation. Bar and tube feeder for automatic machines. 3,480,159, 11-25-69, Cl. 214-1.2
White, Frederick F., Jr., to Du Pont de Nemours, E. I., and Company. Read-out method for electrostatic recordings. 3,482,218, 12-2-69, Cl. 340-173.
White, Frederick M., to General Electric Company. Household refrigerator including ice and water dispensing means. 3,429,140, 2-25-69, Cl. 62-339.
White, Frederick M., to Essex Wire Corporation, mesne. Compensated pilot burner. 3,455,640, 7-15-69, Cl. 431-51.
White, George B.: *See—*
Hansen, Edward L., 3,474,512.
White, George D.; and Handwerk, Joseph H., to United States of America, Atomic Energy Commission. Method of preparing a fuel material for use in a nuclear reactor. 3,431,329, 3-4-69, Cl. 264-0.5
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M., to R & D Electronics. Audio detection alarm systems. 3,445,836, 5-20-69, Cl. 340-261.
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M., to Vericon, Inc. Vapor or particle detection devices. 3,474,435, 10-21-69, Cl. 340-237.
White, Glen B., to Cardinal Products, Inc. Method of extinguishing fires and a composition employed in the method. 3,429,810, 2-25-69, Cl. 252-3.
White, Gordon Bruce, Sir: *See—*
Bugg, Alfred Edward, 3,475,834.
White, Halbert C., to Dow Chemical Company, The. 2-(Aryl)-2-imidazolines. 3,423,422, 1-21-69, Cl. 260-309.6
White, Halbert C., to Dow Chemical Company, The. 2-(2,4,5-Trichlorobenzyl)-2-imidazoline. 3,423,423, 1-21-69, Cl. 260-309.6
White, Halbert C., to Dow Chemical Company, The. 2-[(2-Trifluoromethylphenoxy)methyl]-2- imidazoline. 3,449,354, 6-10-69, Cl. 260-309.6
White, Halbert C., to Dow Chemical Company, The. 2-[(3,4-Dihalophenoxy)methyl]-2-imidazoline. 3,449,355, 6-10-69, Cl. 260-309.6
White, Halbert C., to Dow Chemical Company, The. 2-[(Halophenoxy)methyl]-2-imidazolines. 3,449,356, 6-10-69, Cl. 260-309.6
White, Halbert C., to Dow Chemical Company, The. 2-[(2,6-Substituted)phenoxymethyl]-2- imidazolines. 3,449,357, 6-10-69, Cl. 260-309.6
White, Harlan V.: *See—*
Walsh, James A.; and White, Harlan V.,3,437,047.
White, Harold V.; and McCarley, Herbert R., to United States of America, Army. Pulse width modulated servo amplifier. 3,422,326, 1-14-69, Cl. 318-18.
White, Harry G.: *See—*
Logan, Ralph A.; and White, Harry G.,3,470,038.
White, Harry J.: *See—*
Preuss, Albert F.; White, Harry J.; and Clemens, David H.,3,448,049.
White, Harry N.; and Kirshner, Joseph M., to United States of America, Army. Fluid pressure regulator and reference. 3,457,936, 7-29-69, Cl. 137-81.5
White, Henry A., to Airtherm Manufacturing Company. Vented metal form or sheeting. 3,458,168, 7-29-69, Cl. 249-189.
White, Henry George: *See—*
Perrins, Lyle Eugene; Dawson, Fred; and White, Henry George,3,468,828.
White, Herbert A., Jr. Thermal barrier. 3,425,677, 2-4-69, Cl. 266-34.
White, Herschel T.: *See—*
Langer, Arthur W., Jr.; and White, Herschel T.,3,441,630.

White, Herschel T.; and Langer, Arthur W., Jr., to Esso Research and Engineering Company. Polymerized ethylene pour point depressants from alkanol modified catalysts. 3,474,157, 10-21-69, Cl. 260-683.15

White, Hollis N., Jr., to TRW Inc. Hydraulic motor-pump assembly. 3,452,680, 7-1-69, Cl. 103-130.

White, Hollis N., Jr., to TRW Inc. Rotor-stator gear set in a hydraulic motor- pump device. 3,460,481, 8-12-69, Cl. 103-126.

White, Hollis N., Jr.: *See—*
Goff Raymon L.; and White, Hollis N., Jr.,3,452,543.

White, Homer S., to Woodman Company, Inc., The. Photoelectric weigher for packaging machinery. 3,443,651, 5-13-69, Cl. 177-47.

White, Howard S.: *See—*
Hamdy, Mokhtar M.; and White, Howard S.,3,471,303.
Hamdy, Mokhtar M.; and White, Howard S.,3,471,304.

White, Idas B., to Timberjack Machines Limited. Cylinder and piston assembly with automatic power release. 3,450,006, 6-17-69, Cl. 91-401.

White, Jack M., to ACF Industries, Incorporated. Fuel pump with collector chamber. 3,443,519, 5-13-69, Cl. 103-5.

White, Jack M., to ACF Industries, Incorporated. Automotive deceleration device. 3,486,491, 12-30-69, Cl. 123-117.

White, James C., Jr.: *See—*
Molby, Lloyd A.; and White, James C., Jr.,3,422,919.

White, James C., to Brown Machine Company of Michigan, Inc. Trimming apparatus. 3,461,760, 8-19-69, Cl. 83-81.

White, James D.: *See—*
Johnson, Tom W.; Stropkay, Edward J.; and White, James D.,3,430,260.

White, James E., to Marathon Oil Company. Method and apparatus for acoustic bore hole logging using acoustic signals of controlled direction. 3,475,722, 10-28-69, Cl. 340-15.5

White, James L., 1/3 to Rumsey, John W. System for erecting precast concrete panels in a concrete wall structure. 3,429,607, 2-25-69, Cl. 294-89.

White, Jerome R.: *See—*
Lewis, Richard W.; and White, Jerome R.,3,461,261.

White, Jerome R., to Varian Associates. Slotted waveguide applicator. 3,471,672, 10-7-69, Cl. 219-10.555

White, Jerome R., to Varian Associates. Multimode cavity resonator with triangular coupling holes. 3,474,212, 10-21-69, Cl. 219-101.55

White, Jerome R., to Varian Associates. Multimode cavity resonator with two coupling holes at wall corners. 3,478,188, 11-11-69, Cl. 219-10.55

White, Jerry L.: *See—*
Nimerick, Kenneth H.; and White, Jerry L.,3,483,927.

White, John B., 31 2/3% to White, Dale E., and 31 2/3% to Mitchell, Royce C., and 5% to Moore, Marshall E. Method and apparatus for producing steam. 3,487,423, 12-30-69, Cl. 60-108.

White, John D. Constant temperature bait bucket. 3,452,469, 7-1-69, Cl. 43-55.

White, John G. Visual aid instructional kit. 3,451,152, 6-24-69, Cl. 40-86.

White, John H. Effluent cleaner for waste burner. 3,442,232, 5-6-69, Cl. 110-18.

White, K. M., Company: *See—*
Hornung, Stephen A.; and Reed, Buckley, 3,435,917.

White, Kendall D., Jr., to United States Gypsum Company. Fibrous board products of improved surfaces and process. 3,485,714, 12-23-69, Cl. 162-201.

White, Kenneth J., to Dennison Manufacturing Company. Photocopier cycling apparatus. 3,425,777, 2-4-69, Cl. 355-28.

White, Kenneth J., to Dennison Manufacturing Company. Photocopying apparatus. 3,469,913, 9-30-69, Cl. 355-18.

White, Kenneth J.: *See—*
Raczynski, Walter A.; and White, Kenneth J.,3,425,778.

White Laboratories, Inc.: *See—*
Schlesinger, Walter, 3,466,365.

White, Leslie E. Folding gaff. 3,449,007, 6-10-69, Cl. 294-26.

White, Lloyd M.: *See—*
Jones, Roger W.; and White, Lloyd M.,3,463,007.

White, Loren H., to Leesona Corporation, mesne. Fuel cell construction with involute reactant flow directing means. 3,467,553, 9-16-69, Cl. 136-86.

White, Loring C., to Honeywell Inc. Manufacture of detector. 3,452,198, 6-24-69, Cl. 250-83.

White, Lyle V.: *See—*
Haynes, George R.; McBeth, Clyde W.; Pilgram, Kurt H. G.; and White, Lyle V.,3,454,682.

White, Lynn G.: *See—*
Deni, Frank; Putnam, Eric F.; and White, Lynn G.,3,461,762.

White, Marion M., to Permalac Corporation, The. Surface coating compositions containing pyridine salts or aromatic sulfonic acids. 3,474,054, 10-21-69, Cl. 260-15.

White, Marvin H.: *See—*
Cricchi, James R.; White, Marvin H.; and McLouski, Raymond M.,3,447,046.
Skouson, Glenn W.; and White, Marvin H.,3,473,977.

White, Matthew B., to Philco-Ford Corporation. Laser transmitter for generation of simultaneous frequency modulated and unmodulated beams. 3,473,031, 10-14-69, Cl. 250-199.

White, Maurice A.: *See—*
Baumgardner, Arthur R.; Johnston, Richard P.; Martini, William R.; and White, Maurice A.,3,484,616.

White Motor Corporation: *See—*
Fradette, Joseph J., 3,484,600.
Gunderson, Frederick Allan; and Jonsson, Einar, 3,427,899.
Liles, Clarence E., 3,434,428.
Moon, Charles L., 3,472,214.

White, Odas F. Mechanism for dispelling insects and protection from sun and dust. 3,446,428, 5-27-69, Cl. 230-241.

White, Paul J.: *See—*
Masologites, George P.; Jacobs, Harry E.; and White, Paul J.,3,472,759.
Masologites, George P.; Jacobs, Harry E.; and White, Paul J.,3,477,943.

White, Ralph C.; and Christian, Robert N., to Bushnell Machinery Co., The. Pickling apparatus. 3,473,791, 10-21-69, Cl. 261-124.

White, Ralph M. Automobile safety steering. 3,429,196, 2-25-69, Cl. 74-493.

White, Richard M.: *See—*
Birdsall, Charles K.; and White, Richard M.,3,427,573.

White, Richard N.: *See—*
Segil, Arthur W.; and White, Richard N.,3,450,871.
Segil, Arthur W.; and White, Richard N.,3,471,981.

White,Richard W., to United States of America, Army. Missile with variable area nozzle and control means therefor. 3,447,465, 6-3-69, Cl. 102-49.5

White, Robert A. Auxiliary door lock. 3,458,228, 7-29-69, Cl. 292-359.

White, Robert A.; and James, Raymond H., to Sperry Rand Corporation. Method of storing a discrete amplitude level of an analog signal in a thin ferromagnetic film. 3,457,554, 7-22-69, Cl. 340-174.

White, Robert E.: *See—*
Brault, Andre R.; and White, Robert E.,3,421,813.

White, Robert E., to OPTOmechanisms, Inc. Film code annotating means. 3,449,046, 6-10-69, Cl. 355-1.

White, Robert E., to OPTOmechanisms, Inc. Means to detect amount and direction of shaft rotation. 3,474,255, 10-21-69, Cl. 250-225.

White, Robert F.; and Wright, Roger M., to General Dynamics Corporation. Fluid pressure coupling. 3,427,051, 2-11-69, Cl. 285-165.

White, Robert J.: *See—*
Egan, Clark J.; and White, Robert J.,3,486,993.
Egan, Clark J.; and White, Robert J.,3,487,005.

White, Robert J.; and Houston, Robert J., to Chevron Research Company. Aromatic hydrogenation using a fluorided alumina catalyst. 3,435,085, 3-25-69, Cl. 260-667.
Langlois, Gordon E.; and White, Robert J.,3,463,724.

White, Robert L., to General Motors Corporation. Air compressor with plural pistons. 3,477,739, 11-11-69, Cl. 280-124.

White, Robert L.: *See—*
Lefever, Robert A.; Chang, Nien-Chih; White, Robert L.; and Wickersheim, Kenneth A.,3,454,899.

White, Robert P.; and Foster, Charles N., to Continental Can Company, Inc. Tamper-proof package. 3,484,012, 12-16-69, Cl. 215-42.

White, Robert R.: *See—*
Porter, Dennis A.; and White, Robert R.,3,480,790.

White, Robert W.; and O'Brien, Joseph L., to Rohm & Haas Company. Pinene diamines and method of preparation. 3,453,327, 7-1-69, Cl. 260-563.

White, Roby Byron: *See—*
Tobey, Frederic Samuel; and White, Roby Byron,3,484,614.

White,Roger B., to Glastic Corporation, The. Slot wedge for electric motors or generators. 3,437,858, 4-8-69, Cl. 310-214.

White, Roger F.: *See—*
Shoup, Robert W.; White, Roger F.; and Weller, Albert E.,3,464,350.

White, Roy A., to Mobil Oil Corporation, mesne. Suspension polymerization process wherein a soluble hydrocarbon phosphate is used with a difficutly phosphate. 3,442,880, 5-6-69, Cl. 260-93.5

White, Roy S. Mathematical averaging apparatus. 3,437,268, 4-8-69, Cl. 235-61.

White, S. S., Company: *See—*
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim, 3,473,845.
Taylor, Norris O.; Uhler, Wilmer P.; Gardella, John M.; and Cahlik, Jim, 3,482,072.

White, Thomas A. Well drilling bit. 3,430,719, 3-4-69, Cl. 175-412.

White, Thomas R.: *See—*
Jordan, Jackie B.; and White, Thomas R.,3,442,771.

White, Walter Boyd. Optical prismatic lenses detachably mounted on spectacle temple pieces. 3,423,151, 1-21-69, Cl. 351-175.

White, Walter L. Multipurpose bomb. 3,482,514, 12-9-69, Cl. 102-2.

White, Wayne E.; Munn, James M.; Gilliland, Joe E.; and Wright, Benny B., to Ozark-Mahoning Company. Process and apparatus for production of alkali metal monofluorophosphate. 3,463,605, 8-26-69, Cl. 23-50.
White, Wesley R.: *See—*
Bertsch, Hugh C.; Hurd, Richard N.; McDermott, John P.; and White, Wesley R.,3,437,677.
White, Wilfred Arthur Stephen: *See—*
Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen,3,458,273.
Case, John William; Crowder, Norman Frederic; and White, Wilfred Arthur Stephen,3,476,504.
White, Wilfred Arthur, to Imperial Chemical Industries Limited. Process for the treatment of textile materials. 3,481,685, 12-2-69, Cl. 8-130.1
White, Wilfrid Gordon, to Maximum Inc. Method for balancing compass cards. 3,473,233, 10-21-69, Cl. 33-223.
White, Wilfrid Gordon, to Maximum Inc. Damped support structure for compass cards. 3,481,045, 12-2-69, Cl. 33-223.
White, William D., to United States of America, Navy. Radial outflow decomposition chamber. 3,447,316, 6-3-69, Cl. 60-39.46
White, William D., to Maytag Company, The. Method of forming and perforating a container. 3,481,175, 12-2-69, Cl. 72-333.
White, William H., Jr., to Motorola, Inc. Voltage current regulator. 3,465,163, 9-2-69, Cl. 307-57.
White, William H., Jr.: *See—*
Neapolitakis, Nicholas T.; and White, William H., Jr.,3,432,840.
White, William Herbert, Jr., to Motorola, Inc. Liquid level indicator. 3,475,745, 10-28-69, Cl. 340-253.
White, William J., to McDonnell Douglas Corporation, mesne. Visual parameter tester. 3,424,519, 1-28-69, Cl. 351-17.
White, William V.; Mahlmann, James P.; and Stolz, Robert P., to General Foods Corporation. Flavor improvement process for coffee. 3,476,566, 11-4-69, Cl. 99-65.
White, William W., Jr.: *See—*
McIver, Chandler H.; Siegel, Sidney R.; and White, William W., Jr.,3,470,611.
White, William Z.: *See—*
Simpson, Claude E.; and White, William Z.,3,435,856.
Whitecar, Alten E.: *See—*
Bescript, Frederick; and Whitecar, Alten E.,3,455,086.
Whitecar, Alten E., to Smith Kline & French Laboratories. Lift truck scale. 3,431,992, 3-11-69, Cl. 177-140.
Whitecar, Alten E., to Smith Kline & French Laboratories. Method and device for securing an article to a container. 3,440,116, 4-22-69, Cl. 156-70.
Whited, Calvin: *See—*
Williams, Zelmer Lee, 3,481,476.
Williams, Zelmer Lee, 3,481,478.
Whited, Harry H.; and Lydle, John E. Tire-changing machine. 3,426,827, 2-11-69, Cl. 157-1.26
Whited, John M. Tuning pin for stringed instruments. 3,424,047, 1-28-69, Cl. 84-202.
Whitefield, Martin: *See—*
Yarrow, Hyman; and Whitefield, Martin,3,450,820.
Whitefin Holding S. A.: *See—*
Teotino, Uberto; and Bella, Davide Della, 3,436,458.
Whiteford, Carlton L., to Poly-Pak Corporation of America. Process for stamping thermoplastic elements. 3,439,078, 4-15-69, Cl. 264-88.
Whiteford, Carlton L., to Plastic Can Corporation. Apparatus for forming hollow articles. 3,466,908, 9-16-69, Cl. 72-58.
Whitehall, Francis Brian: *See—*
Seacy, Eric George; and Whitehall, Francis Brian,3,473,007.
Whitehead & Kales Company: *See—*
Blunden, Donald J., 3,426,704.
Blunden, Donald J., 3,473,487.
Whitehead, Calvert W., to Lilly, Eli, and Company. Novel thiatriazinedionedioxides. 3,435,031, 3-25-69, Cl. 260-242.
Whitehead, Daniel L., to Westinghouse Electric Corporation. Enclosed electric power transmission conductors. 3,448,202, 6-3-69, Cl. 174-28.
Whitehead, Donald Gill: *See—*
Gribble, Maurice Woolmer; and Whitehead, Donald Gill,3,471,835.
Whitehead, Howard A.; and Rightor, Edward, Jr., to Kimberly-Clark Corporation. Tampon insertion device. 3,424,159, 1-28-69, Cl. 128-263.
Whitehead, Howard A.; and Rightor, Edward, Jr., to Kimberly-Clark Corporation. Coated catamenial tampon. 3,428,044, 2-18-69, Cl. 128-285.
Whitehead, John I. Adjustable staircase. 3,470,664, 10-7-69, Cl. 52-183.
Whitehead, Robert C., Jr.: *See—*
Taylor, William S.; and Whitehead, Robert C., Jr.,3,455,168.
Whitehead, Stanley E.: *See—*
Weisfeld, Lewis B.; and Whitehead, Stanley E.,3,446,749.
Whitehill, Albert Simeon, to Lord Corporation. Recoil isolator for machine guns and the like. 3,425,318, 2-4-69, Cl. 89-42.
Whitehorn, Richard M., to Varian Associates. Bulk effect microwave oscillator providing a high impedance to second harmonic oscillations. 3,471,806, 10-7-69, Cl. 331-107.
Whitehouse, Ben, Jr. Dispensing unit. 3,442,453, 5-6-69, Cl. 239-71.
Whitehouse, George & Company(Birmingham)Limited: *See—*
Whitehouse, Norman, 3,448,650.
Whitehouse, Harper J.; and Lindsay, George F., to United States of America, Navy. Multiple code delay line correlator. 3,458,694, 7-29-69, Cl. 235-181.
Whitehouse, Harper John: *See—*
Lindsay, George F.; and Whitehouse, Harper John,3,487,203.
Whitehouse, Hugh L., to Stanley Works, The. Tool retainer. 3,458,210, 7-29-69, Cl. 279-19.5
Whitehouse, Maynard Lester: *See—*
Bachman, Gustave Bryant; and Whitehouse, Maynard Lester,3,428,663.
Whitehouse, Michael I.: *See—*
Sleight, George R.; and Whitehouse, Michael I.,3,435,674.
Whitehouse, Norman, to Whitehouse, George & Company(Birmingham)Limited. Support members for use in supporting panels. 3,448,650, 6-10-69, Cl. 85-36.
Whitehurst, Gerald E.: *See—*
Beasley, Neil D.; Whitehurst, Gerald E.; Saletzki, Jacob S.; Lofthouse, Fred R.; and Weber Robert L.,3,452,610.
Dunston, Robert D.; Whitehurst, Gerald E.; and Saletzki, Jacob S.,3,429,623.
Whitehurst, Joe R., to Ideal Industries, Inc. Apparatus for positioning sliver cans beneath a planetary coiler head. 3,426,390, 2-11-69, Cl. 19-159.
Whitehurst, Joe R., to Ideal Industries, Inc. Can-centering means for textile planetary coilers. 3,426,391, 2-11-69, Cl. 19-159.
Whitehurst, Joe R., to Warner & Swasey Company, The, mesne. Instrument for measuring pressure on rollers. 3,438,252, 4-15-69, Cl. 73-141.
Whitehurst, Joe R., to Ideal Industries, Inc. Fiber condenser with combined stop motion and waste disposal for textile drafting units. 3,443,283, 5-13-69, Cl. 19-0.25
Whitehurst, Joe R., to Warner & Swasey Company, The. Feeding apparatus for pliable materials. 3,444,594, 5-20-69, Cl. 19-239.
Whitehurst, Joe R., to Warner & Swasey Company, The, mesne. Fiber drafting and blending system. 3,457,596, 7-29-69, Cl. 19-243.
Whitehurst, Joe R.: *See—*
Rayfield, James Arthur F.; and Whitehurst, Joe R.,3,445,894.
Whitehurst, Joe Rufus, to Warner & Swasey Company, The, mesne. Split self-aligning bearing assembly. 3,446,542, 5-27-69, Cl. 308-187.2
Whitelaw, Robert David MacGregor; and Wright, Alistair William Holmes Lawson, to English Electric Company Limited, The. Alternating current generators having rotating armature with retaining rings for the armature winding and turns. 3,458,742, 7-29-69, Cl. 310–270
Whiteley, Julia G. Means for removing pressure from pressure sores. 3,451,071, 6-24-69, Cl. 5-91.
Whiteley, Thomas E.: *See—*
King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M.,3,437,486.
King, James R., Jr.; Whiteley, Thomas E.; and Minsk, Louis M.,3,475,175.
Whitelock, Kenly W. Hand stamp for printing individual characters. 3,452,675, 7-1-69, Cl. 101-405.
Whitely, Richard L.; Yaggi, Lawrence A.; Shivers, Kenneth P.; and Tongret, Stewart, to U. S. Telephonics, Inc. Automatic telephone dialing and message delivery system. 3,445,601, 5-20-69, Cl. 179-6.
Whiteman, Benton A., to Reynolds Metals Company. Expandable core carrying mandrel. 3,430,889, 3-4-69, Cl. 242-72.1
Whiteman, Benton A., to Reynolds Metals Company. Core carrying mandrel. 3,430,890, 3-4-69, Cl. 242-72.1
Whiteman, Benton A., to Reynolds Metals Company. Device for and method of making a coil construction. 3,462,831, 8-26-69, Cl. 29-605.
Whiteman, Benton A., to Reynolds Metals Company. Coil winding apparatus and method. 3,463,376, 8-26-69, Cl. 226-148.
Whiteman, Benton A., to Reynolds Metals Company. Device for and method of making a coil construction. 3,474,983, 10-28-69, Cl. 242-75.43
Whiteman, Benton A.: *See—*
Brunner, Hans A.; and Whiteman, Benton A.,3,420,465.
Lightner, Robert B.; and Whiteman, Benton A.,3,438,124.
Lightner, Robert B.; and Whiteman, Benton A.,3,474,529.
Whitener, Jack L.: *See—*
Arce, Henry L.; and Whitener, Jack L.,3,465,221.
Whitener, Philip C.; Wadleigh, Robert R.; and Blattner, David G., to Boeing Company, The. Supersonic airplane variable-sweep integrated airfoil system. 3,447,761, 6-3-69, Cl. 244-15.
Whitenstall, Joseph Edric: *See—*
Treu, James Frederick; and Whitenstall, Joseph Edric,3,436,449.

Whitesel, Joseph Collichio; and Weissman, Stanley Norman, to Grace, W. R., & Co. Article and method of coating continuous filament. 3,463,652, 8-26-69, Cl. 117-7.
Whiteside, Joseph J.: *See—*
Sonnenberg, Charles F.; Whiteside, Joseph J.; and Painter, Dennis G.,3,459,881.
Whiteside, Roger B.; and Kulju, Kenneth M., to Standard Pressed Steel Co. Press insert. 3,443,617, 5-13-69, Cl. 151-41.73
Whiteside, Roger B.: *See—*
Ollis, Raymond, Jr.; and Whiteside, Roger B.,3,467,417.
Whiteside, Walter D.; and Hampel, Robert H., to Leblanc, G., Corporation. Musical instrument bearing insert. 3,421,398, 1-14-69, Cl. 84-380.
Whitesides, Jack C., to Lilliston Implement Company. Digger-shaker inverter. 3,469,634, 9-30-69, Cl. 171-101.
Whitey Research Tool Co.: *See—*
Gagher, Bernard J.; Shufflebarger, Earl D.; and Gallagher, Michael F., 3,445,088.
Whitfield, Calvin S. Universal level. 3,435,533, 4-1-69, Cl. 33-211.
Whitfield, Charles Exum, to United States of America, National Aeronautics and Space Administration. Selective plating of etched circuits without removing previous plating. 3,470,043, 9-30-69, Cl. 156-3.
Whitfield, James E., Jr.: *See—*
Komendowski, Henry; and Whitfield, James E., Jr.,3,465,628.
Whitfield, Joseph E., to Greater Iowa Corporation, The, mesne. Carriage mechanism for a load handling device. 3,477,595, 11-11-69, Cl. 214-75.
Whitfield, Kenneth O. Credit card verifier and print enabling means in printing apparatus. 3,465,672, 9-9-69, Cl. 101-269.
Whitfield, Marshall G. Construction of buildings carried on at first floor level. 3,421,271, 1-14-69, Cl. 52-126.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Polyurethane associated with fibrous substrate through reaction with polyamide. 3,433,575, 3-18-69, Cl. 8-115.5
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fibrous material having a polyalkyleneimine bound thereto by a polyfunctional fixative. 3,440,002, 4-22-69, Cl. 8-115.5
Whitfield, Robert E.: *See—*
Fong, Willie; Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A.,3,477,803.
Needles, Howard L.; and Whitfield, Robert E.,3,427,301.
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A.,3,429,650.
Wasley, William L.; Whitfield, Robert E.; and Miller, Lowell A.,3,466,136.
Whitfill, William A., Jr., to Schlumberger Technology Corporation. Marine seismic cable with depth detector system. 3,439,319, 4-15-69, Cl. 340-7.
Whitfill, William A., Jr., to Schlumberger Technology Corporation. Apparatus for determining depth in boreholes. 3,465,448, 9-9-69, Cl. 33-133.
Whitfill, William A., Jr.: *See—*
Gollwitzer, Lee H.; and Whitfill, William A., Jr.,3,462,125.
Bowers, William E.; and Whitfill, William A.,3,465,447.
Whitham, Latham E., to Kennecott Copper Corporation. Automatic remote tripper control. 3,477,593, 11-11-69, Cl. 214-16.
Whitin Machine Works, Inc.: *See—*
Bliss, Gordon L., 3,484,581.
Kieronski, John P., 3,430,875.
Kieronski, John P., 3,451,277.
Kieronski, John P.; and Miller, Harry B., 3,451,640.
Klein, William G.; and Tabor, Warner H., 3,447,206.
Whiting, Charles L.: *See—*
Hunger, Richard H.; Whiting, Charles L.; and Suojanen, Reino,3,461,929.
Whiting Corporation: *See—*
Bergstrom, Ralph E., 3,468,293.
Larkin, John M., 3,478,157.
Morey, Woodruff A.; Molt, Richard P.; Ames, Victor H.; and Dolin, Edward T., 3,447,697.
Rushton, William E., 3,440,010.
Saxonmeyer, Wallace J., 3,461,889.
White, Eugene B., Jr., 3,420,191.
Whiting, Harold E.; Karch, Walter C.; and McFadden, David B. Three-phase bimetal overload relay. 3,422,317, 1-14-69, Cl. 317-46.
Whiting, Harold W., to Worthington Corporation. Package system for compressing gases. 3,480,201, 11-25-69, Cl. 230-182.
Whiting, Mark Crosby, to Ethyl Corporation. Displacement of nucleophilic substituents on aromatic chromium tricarbonyls. 3,444,224, 5-13-69, Cl. 260-438.5
Whiting, Peter E. Power lift apparatus. 3,443,709, 5-13-69, Cl. 214-672.
Whiting, Richard W.: *See—*
Setzer, Herbert J.; and Whiting, Richard W.,3,485,746.
Whitley, Daniel M.: *See—*
Smith, William H.; Whitley, Daniel M.; and Eaton, Edgar P., Jr.,3,435,881.
Whitley, James B.: *See—*
Balentine, John Wesly; Iannicelli, Joseph; and Whitley, James B.,3,442,677.
Whitley, Marvin R.: *See—*
Beeler, Albert D.; and Whitley, Marvin R.,3,466,223.
Whitley, Robert F., to Allied Chemical Corporation. Method and apparatus for uniform entanglement of multifilament yarn. 3,455,096, 7-15-69, Cl. 57-34.
Whitlock, Beauford I.: *See—*
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I.,3,427,076.
Cole, Donald W.; Mitchell, Arlan E.; and Whitlock, Beauford I.,3,427,077.
Whitlock, Beauford I., to AWB Manufacturing Co., Inc. Pre-shrunk wheel balancer ring and system for forming same. 3,456,288, 7-22-69, Cl. 18-1.
Whitlock, Bruce N.; and Whitney, William G., to McGraw-Edison Company. Record-reproduce machine with servo-controlled track selector. 3,424,872, 1-28-69, Cl. 179-100.2
Whitlock, Morris N.: *See—*
Farrell, Guy M.; Gaber, Richard B.; Podgorski, Matthew C.; and Whitlock, Morris N.,3,471,663.
Whitlock, Robert A., to AquaMatic Inc. Regenerant control apparatus. 3,467,255, 9-16-69, Cl. 210-105.
Whitlock, Robert A., to AquaMatic Inc. Timer controlled water softener valve. 3,480,041, 11-25-69, Cl. 137-624.2
Whitlow, Bailey Duane, to Texas Instruments, Incorporated. Mechanical defibering means. 3,462,089, 8-19-69, Cl. 241-296.
Whitlow, George A., to Consolidated Electronics Corporation. Multichannel communication system. 3,436,484, 4-1-69, Cl. 179-15.
Whitman, John E. Apparatus and method for handling and burning a finely comminuted solid. 3,482,534, 12-9-69, Cl. 110-28.
Whitman, Ona Louis, to Viber Company. 1-Beam clamp. 3,465,995, 9-9-69, Cl. 248-228.
Whitman, Raymond Clair: *See—*
Whitney, Gilbert Clinton, Jr.; and Whitman, Raymond Clair,3,475,938.
Whitman, Robert D.: *See—*
Critchfield, Frank E.; and Whitman, Robert D.,3,457,200.
Whitman, Robert Henry: *See—*
Bollyky, Laszlo Joseph; and Whitman, Robert Henry,3,442,813.
Whitman, Robert J.: *See—*
Rust, Wallace R.; and Whitman, Robert J.,3,470,360.
Whitman, Robert M., to Budd Company, The. Decorative laminated article with transparent overlay sheet and method of making it. 3,434,919, 3-25-69, Cl. 162-123.
Whitmer, Lawrence W.; Gewers, Claus W. W.; and McLatchie, Allan S., to Esso Production Company. Viscosimeter. 3,474,663, 10-28-69, Cl. 73-54.
Whitmer, Ray W. Vehicle safety lighting device. 3,449,558, 6-10-69, Cl. 240-2.25
Whitmire Research Laboratories, Inc.: *See—*
Stout, Daniel M., 3,446,892.
Whitmire, William A.; and Webber, Jack S., to Bigge Drayage Co. Fifth wheel for vehicle. 3,430,987, 3-4-69, Cl. 280-438.
Whitmore, Bruce C.: *See—*
Koncsics, David M.; and Whitmore, Bruce C.,3,467,284.
Whitmore, Charles H.; and Ernst, Walter, to Continental Machines, Inc. Two-stage pumping apparatus. 3,431,856, 3-11-69, Cl. 103-5.
Whitmore, Chatland; and Redway, George F., to Cambridge Instrument Company, Inc. Air/fuel ratio indicator. 3,478,579, 11-18-69, Cl. 73-116.
Whitmore, Henry B.; Lewis, Sidney T.; Ritzinger, Frederick R.; and Harris, Leonard, to United States of America, Air Force. Spatial disorientation. 3,436,841, 4-8-69, Cl. 35-25.
Whitmore, Joseph B.: *See—*
Neubarth, William R., 3,461,614.
Whitmore, Peter John, to Imperial Metal Industries (Kynoch) Limited. Shotgun cartridges. 3,422,761, 1-21-69, Cl. 102-42.
Whitmore, Robert A.: *See—*
Highberger, John H.; and Whitmore, Robert A.,3,433,864.
Whitmoyer, Kenneth Leon: *See—*
Hammell, Kemper Martel; and Whitmoyer, Kenneth Leon,3,467,944.
Whitney Blake Company, The: *See—*
Hillman, Robert C., 3,420,720.
Quackenbush, Edward C., 3,422,978.
Whitney, Earl J., to Corning Glass Works. Flexible sealing ring. 3,445,024, 5-20-69, Cl. 215-40.
Whitney, Eugene C., to Westinghouse Electric Corporation. Dynamoelectric machines using ceramic permanent magnets. 3,427,486, 2-11-69, Cl. 310-180.
Whitney Forbes, Inc.: *See—*
Ryder, James P.; and Brouwer, Frans, 3,455,507.
Whitney, Gilbert C., Jr.; and Schroeder, Joseph W., to Foster Wheeler Corporation. Explosive formation. 3,431,763, 3-11-69, Cl. 72-56.

Whitney, Gilbert C., Jr.; and Schroeder, Joseph W., to Foster Wheeler Corporation. Explosive formation. 3,469,426, 9-30-69, Cl. 72-56.
Whitney, Gilbert Clinton, Jr.; and Whitman, Raymond Clair, to Foster Wheeler Corporation. Apparatus for bending. 3,475,938, 11-4-69, Cl. 72-159.
Whitney, Joel G., to Du Pont de Nemours, E. I., and Company. Amino substituted tricyclo [3.2.2.$0^{2,4}$] nonanes. 3,444,199, 5-13-69, Cl. 260-563.
Whitney, Joel G., to Du Pont de Nemours, E. I., and Company. Amino 1,2,3,4,4α,9,10,10α-octahydro-2,4α- ethanophenanthrenes and 2,3,4,4α,9,10- hexahydro-2,4α-ethanophenanthrenes. 3,446,846, 5-27-69, Cl. 260-578.
Whitney, John A.; and Woods, Richards E., to Eckrich, Peter, & Sons, Inc. Temperature telemetering system. 3,475,742, 10-28-69, Cl. 340-207.
Whitney, John K.: *See*—
Adler, Richard H.; and Whitney, John K.,3,455,294.
Whitney, John K., to Gaymar Industries Inc. Inflatable mattress and pressure system. 3,462,778, 8-26-69, Cl. 5-348.
Whitney, Ralph H., to Owens-Illinois, Inc. Apparatus for inserting gaskets in bottle caps. 3,481,019, 12-2-69, Cl. 29-208.
Whitney, Robert L.: *See*—
Good, Louise L.; Whitney, Robert L.; Good, Raymond B.; and Pietrowicz, Ambrose L.,3,436,322.
Whitney, Thomas H.: *See*—
Arnold, Delevan J.; and Whitney, Thomas H.,3,468,580.
Whitney, Varsel Eli, to Western Kraft Corporation. Easy-opening container. 3,447,735, 6-3-69, Cl. 229-51.
Whitney, W. A., Corporation: *See*—
Brolund, Theodore F., 3,469,487.
Whitney, W. A., Manufacturing Company: *See*—
Brolund, Theodore F., 3,452,632.
Brolund, Theodore F., 3,485,131.
Whitney, William E.: *See*—
Rice, Richard E.; and Whitney, William E.,3,464,486.
Whitney, William G.: *See*—
Whitlock, Bruce N.; and Whitney, William G.,3,424,872.
Whitney, William R., to Leesona Corporation. Strand control assembly. 3,449,902, 6-17-69, Cl. 57-111.
Whitnon Manufacturing Company, The: *See*—
Sloan, Charles T., 3,467,404.
Whiton, Louis C.; and Peterson, Alfred Arnold, to Universal Oil Products Company. Method for effecting countercurrent contacting of gas and liquid streams. 3,432,994, 3-18-69, Cl. 55-91.
Whitright, Joseph W. E., to Cheshire Manufacturing Co., Inc. Electrical connector storing device for motor vehicle trailers. 3,482,203, 12-2-69, Cl. 339-36.
Whitsel, Travis S., Jr, to Ashland Oil & Refining Company. Adaption of gas turbine and free piston engines to the manufacture of carbon black. 3,463,612, 8-26-69, Cl. 23-209.4
Whittaker Corporation: *See*—
Abkowitz, Stanley; Larson, Warren L.; and Rizzitano, Fortunato J., 3,475,142.
Bargen, David W., 3,430,077.
Bowman, Ronald, 3,446,064.
Braccini, Alfonso A., 3,438,045.
Brams, Stewart L.; Gage, Frederick W.; and Riege, Ronald L., 3,445,318.
Carr, Donald R., 3,432,135.
Chelner, Herbert, 3,434,090.
Delmonte, Julian, 3,427,884.
Forkner, Robert R., 3,487,431.
Gosnell, Rex B., 3,461,135.
Jenkins, Edwin E., 3,473,375.
Kaufmann, Albert R., 3,440,042.
Kaufmann, Albert R., 3,477,114.
Kleiman, Joseph, 3,449,960.
Konigsberg, Ephraim, 3,427,885.
Lippincott, Richard L., 3,473,703.
Long, Roger A., 3,460,305.
Long, Roger A.; and Jones, Rodney A., 3,460,920.
Long, Roger Alden, 3,485,703.
Losee, Dudley O., 3,427,626.
Magyar, John J.; and Zollinger, Richard J., 3,469,204.
McKay, Thomas L., 3,446,101.
McQueen, Malcolm M., 3,447,768.
McQueen, Malcolm M., 3,481,356.
Moore, William A.; Gross, Arthur; and Skei, Edward C., 3,485,475.
Partain, Gerald K., 3,444,662.
Plotkin, Manuel; and McQueen, Malcolm, 3,428,063.
Saunders, Lawrence L.; and Sibilia, John A., 3,460,993.
Sleven, Marvin; Kleiman, Joseph; and Hobel, Daniel, 3,479,648.
Trischler, Floyd D., 3,452,103.
Trischler, Floyd D.; and Hollander, Jerome, 3,463,761.
Trischler, Floyd D., 3,463,762.
Trischler, Floyd D., 3,475,384.
Trischler, Floyd D., 3,476,819.
Turpen, Russell L., 3,472,412.
Wolcott, Charles E., 3,430,245.
Wolcott, Charles E.; and Filippi, Frank J., 3,430,390.
Young , Laurence R.; and Newman, Joel S., 3,473,868.
Zollinger, Richard J.; and Genofsky, John J., 3,475,691.
Whittaker, Stanley James; and Rhodes, Cecil. Method of forming joint between tube and fitting. 3,434,194, 3-25-69, Cl. 29-421.
Whittaker, Vernon, to Automatic Timing & Controls, Inc. Stabilized oscillator. 3,443,245, 5-6-69, Cl. 331-109.
Whittemore, Charles A.; and Heine, Richard F., to Minnesota Mining and Manufacturing Company. Fluorinated polyphenylene oxide polymers and blends thereof with polyarylsulfones. 3,471,587, 10-7-69, Cl. 260-823.
Whittemore, Osgood J., Jr., to Norton Company. Process for producing shaped mordenite bodies. 3,445,184, 5-20-69, Cl. 23-112.
Whitten, Frank I., to United States of America, Navy. Scissor shock platform. 3,446,469, 5-27-69, Cl. 248-346.
Whitten, George R., Jr. Mounting and grounding device for swimming pool equipment. 3,420,558, 1-7-69, Cl. 287-119.
Whitten, George R., Jr. Gutter and water supply system for swimming pools. 3,432,867, 3-18-69, Cl. 4-172.
Whitten, James R., to General Electric Company. Negative resistance device oscillator circuits having harmonic impedance means for modifying the oscillator frequency. 3,435,374, 3-25-69, Cl. 331-107.
Whitten, James R., to General Electric Company. Rail vehicle detection system. 3,450,873, 6-17-69, Cl. 246-34.
Whitten, James R., to General Electric Company. Railway track circuit. 3,450,874, 6-17-69, Cl. 246-34.
Whitten, James R., to General Electric Company. Rail vehicle detection system. 3,479,502, 11-18-69, Cl. 246-34.
Whitten, James R.; and Rist, Donald H., to General Electric Company. Rail vehicle control system. 3,450,875, 6-17-69, Cl. 246-34.
Whitten, Leonard G., Jr. Interferometric measuring device. 3,472,597, 10-14-69, Cl. 356-106.
Whittier, James Y.: *See*—
Rice, Charles K.; and Whittier, James Y.,3,453,986.
Whittier, Ronald J.: *See*—
Grove, Andrew S.; Leistiko, Otto; and Whittier, Ronald J.,3,463,977.
Whittier, Ronald J., to Fairchild Camera and Instrument Corporation. Planar high voltage four layer structures. 3,432,731, 3-11-69, Cl. 317-235.
Whittingham, David J.: *See*—
Kidera, Edward H.; Kurth, Warren; and Whittingham, David J.,3,431,759.
Whittington, Kenneth William Herbert: *See*—
Copping, Geoffrey Percy; and Whittington, Kenneth William Herbert,3,442,208.
Whittington, Kenneth William Herbert, to Postmaster General, Her Majecty's. Drive mechanisms. 3,468,531, 9-23-69, Cl. 271-62.
Whittle, Frank. Seals between rotating parts. 3,460,844, 8-12-69, Cl. 277-85.
Whittle, Frank. Methods and apparatus for borehole drilling. 3,461,978, 8-19-69, Cl. 175-27.
Whittle, Frank; and Thomas, Derek, to Bristol Siddeley Engines Limited. Stabilisers for borehole drilling. 3,476,196, 11-4-69, Cl. 175-325.
Whittle, Lavar E.: *See*—
Muller, Don M.; Whittle, Lavar E.; and Chartrand, Victor,3,485,093.
Whittley, Donald Charles: *See*—
Farbridge, Joseph Edward; Whittley, Donald Charles; and Smith, Edward Howard,3,442,470.
Whittley, Donald Charles, to De Havilland Aircraft of Canada, Limited, The. Vertical take-off winged aircraft structure and method. 3,429,527, 2-25-69, Cl. 244-12.
Whittom, Robert M.: *See*—
Wald, Samuel K.; and Whittom, Robert M.,3,460,189.
Whitworth, Clyde J., Jr.: *See*—
Potter, George H.; Whitworth, Clyde J., Jr.; and Zutty, Nathan L.,3,485,790.
Whitworth, James W.; and Schroder, William J., to Deering Milliken Research Corporation. Method and apparatus for treating textile yarn. 3,478,401, 11-18-69, Cl. 28-62.
Whitworth, W. G. Armstrong, Sir, & Company (Engineers): *See*—
Tryhorn, Donald Wilfred, 3,469,393.
Wholton, Reginald F.; and Cartledge, Clive, to Textile Machinery Developments Limited. Straight bar knitting machines. 3,435,637, 4-1-69, Cl. 66-88.
Whoriskey, Peter J., to Mallory, P. R., & Co., Inc. Five-layer light-actuated semiconductor device having bevelled sides. 3,422,323, 1-14-69, Cl. 317-235.
Why, John Frederick, to International Standard Electric Corporation. Telephone tone ringer. 3,450,846, 6-17-69, Cl. 179-84.
Why, John Frederick; and Papadopoulos, Athanasios, to International Standard Electric Corporation. Tone ringer. 3,467,788, 9-16-69, Cl. 179-84.
Whyman, Derek, to National Research Development Corporation. Plasma arc device with cathode structure comprising plurality of rods. 3,433,991, 3-18-69, Cl. 313-231.

Whyte, James Norwood: *See—*
Baker, Lionel Richard; Bertoya, Hastings Charles Maxim; Mann, John Raymond; and Whyte, James Norwood,3,436,154.
Whyte, Kenneth Ronald Atholl. Chair capable of rapid erection and dismantling. 3,427,074, 2-11-69, Cl. 297-443.
Wiard, Hadley K.: *See—*
Antonsen, Knud; Rosenberg, Richard; and Wiard, Hadley K.,3,483,380.
Wibau Westdeutsche Industrie- und Strassenbau Maschinen-Gesellschaft m.b.H.: *See—*
Albersmeyer, Walter, 3,476,682.
Wiberg, Egon: *See—*
Van Ghemen, Max; and Wiberg, Egon,3,471,568.
Wiberg, Ole. Convertible couch. 3,422,467, 1-21-69, Cl. 5-12.
Wible, Richard V., to United States of America, Air Force. Rudder pedal switch. 3,430,013, 2-25-69, Cl. 200-86.5
Wical, Marshal W.: *See—*
Rusk, Gerald R.; and Wical, Marshal W.,3,468,364.
Wicenec, Gottfried, to Meimberg, Julius. Infinitely variable transmission with overriding clutch. 3,449,972, 6-17-69, Cl. 74-119.
Wich, Robert: *See—*
Messinger, Werner; and Wich, Robert,3,440,725.
Wich, Robert; and Messinger, Werner, to Braun Aktiengesellschaft. Dry shaver with two cutting units. 3,440,724, 4-29-69, Cl. 30-34.1
Wichers, Henry W.: *See—*
Bennett, Edward L.; Lockwood, Raymond M.; and Wichers, Henry W.,3,485,487.
Wichita Clutch Company, Inc.: *See—*
Forsythe, Bobbie G., 3,469,658.
Warman, Charles P., 3,435,935.
Warman, Charles P., 3,435,936.
Wichman, Kendall L., to Mahon, R. C., Company, The. Apparatus for cleaning and coating articles. 3,422,825, 1-21-69, Cl. 134-105.
Wichterle, Otto, to Ceskoslovenska akademie ved. Selectively light absorbing contact lens. 3,476,499, 11-4-69, Cl. 8-4.
Wick, Arne N.; and Murphy, Patrick J., to San Diego State College Foundation. N[1]-[2-p-hydroxyphenyl)ethyl]biguanide as a hypoglycemic agent and as a weight reducing agent. 3,456,059, 7-15-69, Cl. 424-326.
Wick, Arnold, to Ciba Limited. Process for the manufacture of 4:4'-diamino-1;1'- dianthraquinonyl-3:3'-disulfonic acid. 3,471,524, 10-7-69, Cl. 260-367.
Wick, Helmut: *See—*
Zeile, Karl; Banholzer, Rolf; Walther, Gerhard; Schulz, Werner; and Wick, Helmut,3,472,861.
Wick, Kurt: *See—*
Dachs, Karl; Wilhelm, Hans; Wick, Kurt; Schwenke, Wolfgang; and Naeder, Max,3,440,668.
Wick, Manfred: *See—*
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,464,951.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,474,064.
Hittmair, Paul; Wohlfarth, Ernst; Nitsche, Siegfried; and Wick, Manfred,3,432,463.
Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,440,207.
Wegehaupt, Karl-Heinrich; Wick, Manfred; and Nitzsche, Siegfried,3,464,950.
Wick, Reyburn W.: *See—*
Pearlstein, Fred; Wick, Reyburn W.; and Gallaccio, Anthony,3,485,682.
Wick, Richard, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with flash unit. 3,430,545, 3-4-69, Cl. 95-11.
Wick, Richard, to Agfa-Gevaert Aktiengesellschaft. Apparatus for optically aligning laterally offset negative frames with photosensitive material. 3,469,912, 9-30-69, Cl. 355-18.
Wick, Richard, to Agfa-Gevaert Aktiengesellschaft. Multiple flash bulb holder. 3,473,880, 10-21-69, Cl. 431-95.
Wick, Richard; Bestenrainer, Friedrich; and Van Wasielewski, Erwin, to Agfa-Gevaert Aktiengesellschaft. Exposure control for photographic camera. 3,433,140, 3-18-69, Cl. 95-10.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with electronic flash unit. 3,426,661, 2-11-69, Cl. 95-10.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Flash intensity regulating circuit for flash cameras. 3,465,656, 9-9-69, Cl. 95-10.
Wick, Richard; Engelsmann, Dieter; and Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with flash unit. 3,447,433, 6-3-69, Cl. 95-11.
Wick, Richard; Kohler, Roland; and Schneider, Othmar, to Agfa-Gevaert Aktiengesellschaft. Apparatus for making prints from photographic negatives. 3,454,336, 7-8-69, Cl. 355-29.
Wick, Richard; Kwiatkowski, Wolfgang; and Schausberger, Helmut, to Agfa-Gevaert Aktiengesellschaft. Sheet feeding apparatus. 3,430,945, 3-4-69, Cl. 271-42.
Wick, Richard; Wagner, Karl; Von Albedyll, Joachim; and Renner, Otfried, to Agfa-Gevaert Aktiengesellschaft. Flash unit for photographic cameras. 3,454,755, 7-8-69, Cl. 240-1.3
Wick, Richard; Wagner, Karl; von Albedyll, Joachim; Renner, Otfried; and Hennig, Fridolin, to Agfa-Gevaert Aktiengesellschaft. Flash unit for photographic cameras. 3,466,992, 9-16-69, Cl. 95-11.5
Wick, Richard; Waschk, Fritz; and Orthmann, Jurgen, to Agfa-Gevaert Aktiengesellschaft. Optical copying apparatus. 3,431,053, 3-4-69, Cl. 355-66.
Wickam, Irwin Edward, to Rapistan Incorporated. Starter for vibratory conveyors. 3,481,451, 12-2-69, Cl. 198-220.
Wickberg & Sturn Construction Co.: *See—*
Wickberg, Norman E.; and Sturn, Le Roy R., Jr., 3,458,069.
Wickberg, Norman E.; and Sturn, Le Roy R., Jr., to Wickberg & Sturn Construction Co. Conversion to forklift. 3,458,069, 7-29-69, Cl. 214-145.
Wicke, Charles A.: *See—*
Enright, James H.; and Wicke, Charles A.,3,425,637.
Enright, James H.; and Wicke, Charles A.,3,464,638.
Wicke, Ewald; and Kuessner, Albrecht, to VARTA Aktiengesellschaft. Method for the production of finely-divided catalyst coatings on pore-free surfaces of hydrogen-absorbing metallic substances, and product resulting therefrom. 3,455,845, 7-15-69, Cl. 252-474.
Wickenberg, Chester H.: *See—*
Dokos, Sophocles J.; Wickenberg, Chester H.; Swanson, Charles E.; and Gasparaitis, Bernardas,3,472,154.
Wickenberg, Chester H. Apparatus for preparation of coffee or like beverage. 3,463,075, 8-26-69, Cl. 99-282.
Wickenberg, Chester H.; and Olofsson Sigfrid M. Double-acting pump for gas or liquid. 3,485,180, 12-23-69, Cl. 103-158.
Wickenhauser, Leonard J.: *See—*
Fulton, Walter B.; and Wickenhauser, Leonard J.,3,442,331.
Wickens, Edward F.: *See—*
Kurt, Ewald H.; Wickens, Edward F.; and Lewis, Samuel P.,3,424,065.
Wickens, James Charles: *See—*
Osbond, John Mervyn; and Wickens, James Charles,3,466,289.
Wicker, Dan B.; Bennett, James G., Jr.; and Ward, Lowell G., to Huyck Corporation. Method of making a bandaging and dressing material. 3,481,806, 12-2-69, Cl. 156-148.
Wicker, George Leonard, to Turner Brothers Asbestos Company Limited. Manufacture of thermoplastic sheet. 3,461,012, 8-12-69, Cl. 156-193.
Wicker, Ralph C., to Wicker Research, Inc. Chase adapter for photocomposing. 3,436,149, 4-1-69, Cl. 355-85.
Wicker, Ralph C., to Carlson, Chesley F., Company, mesne. Lithographic color analyzing. 3,462,229, 8-19-69, Cl. 356-169.
Wicker, Reginald Gordon, to General Electric Company Limited, The. Frequency synthesizer using automatically varied division factors in a phase-locked loop. 3,441,870, 4-29-69, Cl. 331-11.
Wicker, Reginald Gordon, to General Electric Company Limited, The. Oscillator system selectively operable as frequency measuring device or automatic frequency control. 3,441,871, 4-29-69, Cl. 331-11.
Wicker, Reginald Gordon, to General Electric Company Limited, The. Frequency synthesisers. 3,479,610, 11-18-69, Cl. 331-2.
Wicker Research, Inc.: *See—*
Wicker, Ralph C., 3,436,149.
Wickersheim, Frederick C.: *See—*
Judd, Sebastian F.; and Wickersheim, Frederick C.,3,446,291.
Wickersheim, Kenneth A.: *See—*
Lefever, Robert A.; Chang, Nien-Chih; White, Robert L.; and Wickersheim, Kenneth A.,3,454,899.
Wickes, David R. Mixing apparatus. 3,448,964, 6-10-69, Cl. 259-72.
Wickett, Byron H., to American Hospital Supply Corporation, mesne. Flashback indicator for parenteral liquid administration set. 3,429,311, 2-25-69, Cl. 128-214.
Wickham, Donald G., to Ampex Corporation. Preparation of lithium-manganese ferrite. 3,477,960, 11-11-69, Cl. 252-62.6
Wickham, Donald G., to Ampex Corporation. Transparent magnetic spinel crystal of mixed oxide of lithium iron and vanadium. 3,479,132, 11-18-69, Cl. 23-51.
Wicki, Heinz; May, Max; and Badertscher, Markus, to Sandoz Ltd., a/k/a/ Sandoz A.G. Process for dyeing or printing leather. 3,472,605, 10-14-69, Cl. 8-12.
Wicklatz, John E.: *See—*
Harrison, Stuart A.; and Wicklatz, John E.,3,478,081.
Wickliff, David: *See—*
Eubanks, David H.; and Wickliff, David,3,454,005.
Wickliff, Noble E., to Bell Telephone Laboratories, Incorporated. Regulated polyphase rectifying circuits. 3,434,031, 3-18-69, Cl. 321-5.
Wicklund, Sven Erik, to Atlas Copco Aktiebolag. Internal combustion percussion tool and hammer piston locking means therefor. 3,424,252, 1-28-69, Cl. 173-116.

Wickman, Axel Charles. Epicyclic change-speed gearing. 3,424,034, 1-28-69, Cl. 74-761.
Wickman, Axel Charles. Epicyclic change-speed gearing. 3,444,761, 5-20-69, Cl. 74-740.
Wickman Lang Limited: *See—*
Blackburn, Donald Macpherson, 3,452,997.
Lucie, Albert, 3,431,800.
Lucie, Albert, 3,436,993.
Wickman Machine Tool Sales Limited: *See—*
Horobin, Dennis, 3,481,230.
Wickman Wimet Limited: *See—*
Reeve, Leonard; Brown, Stanley Clifford; and Beckett, Harold, 3,469,296.
Trent, Edward Moor, 3,482,295.
Wicks, Charles S., to Chase Bag Company. Plastic lined burlap bag. 3,485,281, 12-23-69, Cl. 150-1.
Wicks, John W.: *See—*
Camarata, Peter W.; and Wicks, John W.,3,449,719.
Wickstrom, Svante Theodore: *See—*
Lindgren, Raymond E.; and Wickstrom, Svante Theodore,3,475,564.
Widani, Ludwig, Werkzeugmaschiene: *See—*
Widani, Rudolf, 3,435,718.
Widani, Rudolf, to Widani, Ludwig, Werkzeugmaschiene. Apparatus for trimming the edges of hollow bodies. 3,435,718, 4-1-69, Cl. 83-185.
Widdowson, Albert H.; and Goadby, Walter, to Wildt Mellor Bromley Limited. Circular knitting machines. 3,422,638, 1-21-69, Cl. 66-19.
Wide Range Industries, Inc.: *See—*
Kovacik, Joseph; and Mooney, William, 3,452,880.
Wideburg, Allen C.; and Steffens, James E., to Gray, Avrum G., and Gray, Sheldon. Universal joint tester. 3,465,449, 9-9-69, Cl. 33-172.
Widegren, Walter M., to Lake Eyelet Manufacturing Co., Inc. Applicator. 3,469,928, 9-30-69, Cl. 401-122.
Widel, Walter Herbert Erwin, to Telefonaktiebolaget L M Ericsson. Method of detecting and correcting an error in polarity change in a data transmission system. 3,436,730, 4-1-69, Cl. 340-146.1
Widell, Marja, to Allmanna Svenska Elektriska Aktiebolaget. Method of operating a high temperature fuel cell. 3,486,943, 12-30-69, Cl. 136-86.
Wideman, Luther H.: *See—*
Decker, Alfred S.; and Wideman, Luther H.,3,461,795.
Wideman, Ronald H.: *See—*
Lewis, Frank M., Jr.; and Wideman, Ronald H.,3,424,643.
Wider, Eberhard, to Union Special Maschinenfabrik G.m.b.H. Fabric clamp drive for automatically controlled short seam sewing machines. 3,425,287, 2-4-69, Cl. 74-119.
Wider, Eberhard, to Union Special Maschinenfabrik G.m.b.H. Looper drive for buttonhole sewing machines or the like. 3,457,888, 7-29-69, Cl. 112-201.
Widerby, Lennart, to Aktiebolaget Svenska Flaktfabriken. Fire- and pressure-proof assembly of building elements. 3,423,896, 1-28-69, Cl. 52-395.
Widiger, Alexander H., Jr., to Dow Chemical Company, The. Method for preparing polyhydroxy aromatic compounds rich in meta orientation. 3,440,290, 4-22-69, Cl. 260-613.
Widl, Gerhard: *See—*
Greulich, Heinz; Schumacher, Karl; Leinauer, Erich; and Widl, Gerhard,3,471,824.
Widl, Walter Herbert Erwin, to Telefonaktiebolaget L M Ericsson. Arrangement for automatic transit time compensation in parallel data transmission systems. 3,457,511, 7-22-69, Cl. 325-42.
Widl, Walter Herbert Erwin, to Telefonaktiebolaget L M Ericsson. Method of transmitting message signals through a clock pulse channel in a data transmisson system. 3,461,239, 8-12-69, Cl. 178-69.5
Widl, Walter Herbert Erwin, to Telefonaktiebolaget L M Ericsson. Error detecting and control device in a data transmission system. 3,483,510, 12-9-69, Cl. 340-146.1
Widmann, Arno, to Scherer R. P., G.m.b.H. Coated gelating capsules. 3,467,748, 9-16-69, Cl. 424-32.
Widmayer, Don F. Apparatus for controlling current to load independent of load characteristics. 3,422,310, 1-14-69, Cl. 315-291.
Widmer, Alois E.: *See—*
McCaldin, James O.; and Widmer, Alois E.,3,442,721.
Widmer, Hans: *See—*
Mader, Siegfried R.; Nowick, Arthur S.; and Widmer, Hans,3,427,154.
Widmer, Hans, to Goodyear Tire & Rubber Company, The. Adhesion improvement of tire cord to rubber by graft polymerization with p-vinylphenylthiolacetate. 3,475,251, 10-28-69, Cl. 156-334.
Widmer, Paul, to General Motors Corporation. Vehicle door latch actuator. 3,476,430, 11-4-69, Cl. 292-336.3
Widmer, Thomas F.: *See—*
Sherwood, Donald G.; and Widmer, Thomas F.,3,445,689.
Widmoyer, George A.: *See—*
Smith, Lowell F.; and Widmoyer, George A.,3,421,383.
Widner, James E.: *See—*
Lieffring, Gordon V.; Begey, Kenneth P.; and Widner, James E.,3,464,631.
Widrow, Bernard; and Hoff, Marcian E., Jr. Analog multiplier and modulating circuits employing electrolytic elements. 3,454,753, 7-8-69, Cl. 235-194.
Width, Robert B., to Tuffaloy Products, Inc. Electric resistance welding electrode holder having a resiliently extending coolant circulation tube. 3,487,193, 12-30-69, Cl. 219-120.
Wiebe, Donald, to Hansen, William S., d/b/a Stucki, A., Company. Combined rate of flow, pressure and temperature gage. 3,477,289, 11-11-69, Cl. 73-198.
Wiebe, Jacob. Tire sanderizer. 3,465,713, 9-9-69, Cl. 118-59.
Wiebelhaus, Virgil D.: *See—*
Maass, Alfred R.; Weinstock, Joseph; and Wiebelhaus, Virgil D.,3,436,392.
Wiebke, Gunther; and Lipp, Alfred, to Elektroschmelzwerk Kempten GmbH. Gas cutting powders and methods of using same. 3,473,972, 10-21-69, Cl. 148-9.
Wiecek, Eugene J. Conveyor systems. 3,429,421, 2-25-69, Cl. 198-179.
Wiechec, Walter J., to General Motors Corporation. Method for improving the switching coefficient of ferrites with hysteresis loops of rectangular shape. 3,458,927, 8-5-69, Cl. 29-604.
Wiechert, Rudolf: *See—*
Engelfried, Otto; Lehmann, Hans-Gunter; Neumann, Friedmund; and Wiechert, Rudolf,3,444,295.
Wiechert, Rudolf, to Schering A.G.4-Halogeno-1α,2α; 6β,7β-bimethylene-$\Delta^4$3-keto- steroids and process for making the same. 3,480,711, 11-25-69, Cl. 424-241.
Wiechert, Rudolf; Kerb, Ulrich; and Hocks, Peter, to Schering A.G.2$\beta\beta$,14α-22β,25-Penta hydroxy-5β-cholest-7- en-6-one and process for the production thereof. 3,442,917, 5-6-69, Cl. 260-397.2
Wiechert, Rudolf; and Neumann, Friedmund, to Schering AG. 1,2α-Methylene-steroids and process for their production. 3,466,371, 9-9-69, Cl. 424-240.
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf,3,478,065.
Hader, Josef; Neumann, Friedmund; and Wiechert, Rudolf,3,439,093.
Neumann, Friedmund; and Wiechert, Rudolf,3,441,647.
Schmidt, Otfried; Prezewowsky, Klaus; and Wiechert, Rudolf,3,470,160.
Schmidt, Otfried; Wiechert, Rudolf; and Neumann, Friedmund,3,469,008.
Wiechmann, Eldred H.: *See—*
Harland, Glen E., Jr.; Hanson, Charles G.; and Wiechmann, Eldred H.,3,467,854.
Wieck, Gregory J. Reversible irrigation lines. 3,447,751, 6-3-69, Cl. 239-212.
Wieck, Karl, to Supfina Wieck & Hentzen. Apparatus for electrolytically honing the exterior surface of a cylindrical workpiece. 3,442,784, 5-6-69, Cl. 204-217.
Wieczorek, Robert A., to Square D Company. Time delay circuit with field effect transistor. 3,473,054, 10-14-69, Cl. 307-293.
Wieczorek, Robert A.: *See—*
Meyer, Charles F.; and Wieczorek, Robert A.,3,445,679.
Wiedeman, Charles W., Jr.: *See—*
Ragland, Evan L., III; and Wiedeman, Charles W., Jr.,3,442,365.
Wiedemann, Eugen, to Aktiengesellschaft Brown, Boveri & Cie. Liquid cooled turbo-generator. 3,469,126, 9-23-69, Cl. 310-54.
Wiedemann, Eugen; Kranz, Rolf-Dieter; and Sark, Werner, to Aktiengesellschaft Brown, Boveri & Cie. Turbogenerator with internal liquid cooling of exciter winding. 3,487,243, 12-30-69, Cl. 310-54.
Wiedemann, Otto: *See—*
Dannhauser, Kurt; Wiedemann, Otto; and Leitsmann, Reinhard,3,484,461.
Wiedemann, Werner: *See—*
Klipping, Gustav; Moll, Justus; and Wiedemann, Werner,3,461,678.
Wieden, Horst: *See—*
Radlmann, Eduard; Wolf, Gerhard Dieter; Wieden, Horst; and Nischk, Gunther,3,481,885.
Szita, Jeno; Bahr, Ulrich; Wieden, Horst; Marzolph, Herbert; and Nischk, Gunther,3,478,001.
Wieden, Horst; Bahr, Ulrich; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Bicyclic amidine-copper salt catalyzed polyarylene ether formation. 3,442,885, 5-6-69, Cl. 260-47.
Wieden, Horst; Lenz, Hans; Moosmueller, Fritz; and Koehler, Armin, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane spinning solutions containing ethylene diamine and 1-amino-3-aminomethyl-3,5,5- trimethyl cyclohexane polyurethanes. 3,481,905, 12-2-69, Cl. 260-75.

Wieden, Horst; Romatowski, Johannes; Moosmueller, Fritz; and Lenz, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane spinning solutions containing ethylene diamine and bis-(4-aminophenyl)-alkanex polyurethanes. 3,485,800, 12-23-69, Cl. 260-75.
Wieder, Harold: *See—*
Pole, Robert V.; Wieder, Harold; and Myers, Robert A.,3,466,110.
Wieder, Harry H., to United States of America, Navy. Magnetoresistive modulator. 3,435,323, 3-25-69, Cl. 321-44.
Wiederhold, Gerald L., to International Business Machines Corporation. Cleaning apparatus. 3,453,681, 7-8-69, Cl. 15-306.
Wiederhut, Wolfgang; and Strohlein, Rudolf, to Theodor Groz & Sohme & Ernst Beckert Nadelfabrik Commandit-Gesellschaft. Latch needle for knitting machines. 3,459,009, 8-5-69, Cl. 66-122.
Wiedermann, Jiri: *See—*
Storek, Jaroslav; Wiedermann, Jiri; Hrdina, Jan; and Volesky, Radovan,3,457,716.
Wiederwohl, Kurt: *See—*
Germann, Reimar; and Wiederwohl, Kurt,3,471,763.
Wiedmann, Erwin: *See—*
Heynacher, Erich; and Wiedmann, Erwin,3,438,713.
Wiedmann, Walter: *See—*
Barth, Alfred; Beck, Karl; and Wiedmann, Walter,3,434,601.
Wiegand, Edwin L., Company: *See—*
Ammerman, George Edward; and Cunningham, Donald M., 3,447,121.
Cappell, Charles W.; and Kreske, Gerald H., 3,423,569.
Drugmand, Lester D., 3,444,357.
Fischer, Harry C., 3,468,022.
Fischer, Harry C., 3,470,351.
McOrlly, Joseph, 3,468,023.
Volker, John F., 3,458,648.
Wiegand Electronics Co., Inc.: *See—*
Wiegand, John R., 3,448,440.
Wiegand, Hans; and Salter, Albert F., to Teleflex Incorporated. Method of producing composite metal articles by uniting two identical shapes. 3,429,700, 2-25-69, Cl. 75-208.
Wiegand, John R., to Wiegand Electronics Co., Inc. Interceptor transformer proximity key. 3,448,440, 6-3-69, Cl. 340-174.
Wiegandt, Herbert F., to Institut Francais du Petrole des Carburants et Lubrifiants. Process and apparatus for the continuous separation of solid materials contained in a liquid. 3,435,625, 4-1-69, Cl. 62-58.
Wieger, Erhard: *See—*
Wieger, Ernst; and Wieger, Erhard,3,460,691.
Wieger, Ernst; and Wieger, Erhard. Telescopic dredge. 3,460,691, 8-12-69, Cl. 214-141.
Wieger, George F., to Bendix Corporation, The. Brake adjuster. 3,460,653, 8-12-69, Cl. 188-79.5
Wiegert, Albert Carl; and Cook, Louis John, Jr., to Eastman Kodak Company. Sheet responsive control device. 3,420,520, 1-7-69, Cl. 271-75.
Wiegert, Richard G.; and Gentry, James R. Calorimeter. 3,451,267, 6-24-69, Cl. 73-191.
Wiegmann, Karl H.: *See—*
Costello, Leonard C.; and Wiegmann, Karl H.,3,461,953.
Wiehahn, Eric Francis, to Fisons (Proprietary) Limited. Seal on sacks. 3,473,725, 10-21-69, Cl. 229-62.
Wieland, Carson E., to Du Pont de Nemours, E. I., and Company. Process for isolating elastomers from intimate mixtures thereof with volatile liquids. 3,442,317, 5-6-69, Cl. 159-48.
Wieland, Ernst, to Dornier System G.m.b.H. Towing cable attachment mechanism for wingless towed aircraft. 3,456,901, 7-22-69, Cl. 244-3.
Wieland, Ernst; and Dietrich, Albert, to Dornier System G.m.b.H. Recovery system for towed aircraft. 3,451,642, 6-24-69, Cl. 244-3.
Wieland, Ernst; and Zimmermann, Gunter, to Dornier System G.m.b.H. Aircraft inertial drift correction by a ground station. 3,456,255, 7-15-69, Cl. 343-5.
Wieland, Markus: *See—*
Stuper, Josef; and Wieland, Markus,3,425,327.
Wieland, Michael S.: *See—*
Loxley, Thomas E.; Sloop, James L.; and Wieland, Michael S.,3,447,077.
Wieland, Peter: *See—*
Anner, Georg; and Wieland, Peter,3,432,528.
Wettstein, Albert; Anner, Georg; Ehmann, Ludwig; and Wieland, Peter,3,453,296.
Wieland, Roman G., to Tri W-G, Inc. Therapeutic treatment bed. 3,467,971, 9-23-69, Cl. 5-63.
Wielicki, Henry: *See—*
Brown, James A.; Garrett, Walter L.; and Wielicki, Henry,3,467,603.
Wielkens, Vernon B.: *See—*
Friemel, William J.; and Wielkens, Vernon B.,3,420,757.
Wiemer, Jean, to Metallgesellschaft Aktiengesellschaft. Electrostatic dust precipitator. 3,483,671, 12-16-69, Cl. 55-136.
Wienand, Michael; and Primessing, Franz, to Dynamit Nobel Aktiengesellschaft. Thermoplastic roof shingles. 3,461,628, 8-19-69, Cl. 52-309.
Wienecke, Louis G., Jr., to Phillips Petroleum Company. Protective packing material. 3,439,860, 4-22-69, Cl. 229-14.
Wieneke, Frederick L., to Barber-Colman Company. Mechanism and method for positioning reeds. 3,444,601, 5-20-69, Cl. 28-45.
Wiener, Jerome B.: *See—*
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz A.; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,444,525.
Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B.,3,487,373.
Barton, Richard; Hittel, Lorenz A.; Rakoczi, Laszlo L.; and Wiener, Jerome B.,3,469,241.
Frasier, Carlton R.; Hittel, Lorenz A.; Hudson, James R.; Rakoczi, Laszlo L.; Sansbury, David L.; and Wiener, Jerome B.,3,483,521.
Wiener Kammfabrik Anton Abraham Komm. Ges.: *See—*
Abraham, Anton, 3,464,427.
Wiener, Maria V., to Goodyear Tire & Rubber Company, The. Copolyesters of mixed phthalic acids, acyclic dicarboxylic acids and tetramethylene glycol. 3,421,974, 1-14-69, Cl. 161-226.
Wiener, Maria V., to Goodyear Tire & Rubber Company, The. Copolyester resins. 3,423,280, 1-21-69, Cl. 161-194.
Wiener, Maria V., to Goodyear Tire & Rubber Company, The. Copolyesters of mixed phthalic acids, aliphatic dicarboxylic acids and tetramethylene glycol. 3,423,281, 1-21-69, Cl. 161-226.
Wiener, Maria V., to Goodyear Tire & Rubber Company, The. Thermosettable resin from preformed linear polyester and a polyhydric alcohol. 3,446,758, 5-27-69, Cl. 260-2.3
Wiener, Maria V., to Goodyear Tire & Rubber Company, The. Method for preparing esters using imidazoles as catalysts. 3,462,395, 8-19-69, Cl. 260-75.
Wiener, Maria V., to Goodyear Tire & Rubber Company, The. Polyester melt blends. 3,466,348, 9-9-69, Cl. 260-860.
Wiener Metallwarenfabrik Smolka & Co.: *See—*
Smolka, Thomas G.; and Schweizer, Gottfried, 3,469,857.
Wiener Schwachstromwerke Gesellschaft m.b.H.: *See—*
Adamec, Alfred, 3,434,823.
Fadler, Walter, 3,474,178.
Fadler, Walter, 3,486,745.
Wiener Schwackstromwerke Gesellschaft mbH: *See—*
Fadler, Walter, 3,471,139.
Wienert, Fritz Otto. Method for griding. 3,471,093, 10-7-69, Cl. 241-30.
Wiens, Bradley E.: *See—*
Braddy, John E.; and Wiens, Bradley E.,3,432,331.
Bruss, Howard G., Jr.; Schlientz, Walter J.; and Wiens, Bradley E.,3,445,269.
Schlientz, Walter J.; and Wiens, Bradley E.,3,438,801.
Wiensz, Klaus: *See—*
Wuhrer, Josef; and Wiensz, Klaus,3,441,636.
Wieriks, Jacob: *See—*
Marx, Arthur Friedrich; and Wieriks, Jacob,3,485,825.
Wiesboeck, Robert A., to USS Agri-Chemicals, Inc., mesne. Manufacture of difluorophosphoric acid. 3,428,421, 2-18-69, Cl. 23-139.
Wiesboeck, Robert A., to USS Agri-Chemicals, Inc., mesne. Preparation of phosphoryl fluoride and difluorophosphoric acid. 3,428,422, 2-18-69, Cl. 23-139.
Wiesboeck, Robert A., to USS Agri-Chemicals, Inc., mesne. Preparation of phosphoryl fluoride and difluorophosphoric acid from phosphate rock. 3,429,659, 2-25-69, Cl. 23-139.
Wiesboeck, Robert A., to USS Agri-Chemicals, Inc., mesne. Urea-biuret condensation products as slow release nitrogen fertilizer and the preparation thereof. 3,459,529, 8-5-69, Cl. 71-28.
Wiesboeck, Robert A., to USS Agri-Chemicals, Inc., mesne. Ureidomethylenehydrotriazinedione. 3,470,175, 9-30-69, Cl. 260-248.
Wiesboeck, Robert A.; and Nickerson, John D., to USS Agri-Chemicals, Inc., mesne. Urea condensation product slow release nitrogen fertilizer compounds and the preparation thereof. 3,459,528, 8-5-69, Cl. 71-28.
Wieschollek, Helmut; and Gumlich, Walter, to Chemische Werke Huls Aktiengesellschaft. Process for the production of molded foam bodies of polyesters. 3,479,303, 11-18-69, Cl. 260-2.5
Wiese, Harold H., to United States of America, Army. Self-arming grenade launcher. 3,427,741, 2-18-69, Cl. 42-1.
Wiese, Herbert F., to Lubrizol Corporation, The. Lubricants containing molybdenum phosphorodithioates. 3,446,735, 5-27-69, Cl. 252-32.7
Wiese, Herbert K.: *See—*
Van de Castle, John F.; and Wiese, Herbert K.,3,438,951.
Wiese, Joseph A., Jr., to Minnesota Mining and Manufacturing Company. Electron beam recording and readout process for information storage and retrieval. 3,467,951, 9-16-69, Cl. 340-173.
Wiese, Joseph A., Jr.: *See—*
Berg, John R.; and Wiese, Joseph A., Jr.,3,483,013.

Wiese, Randolph A., to Powder Weld International Corporation. Apparatus for flame spraying powdered materials. 3,438,579, 4-15-69, Cl. 239-85.
Wiese, Winfred J., to Borg-Warner Corporation. Mechanical seal with flow control. 3,433,489, 3-18-69, Cl. 277-74.
Wiese, Winfred J.: *See—*
Marrujo, Fernando G.; and Wiese, Winfred J.,3,447,809.
Wiesenborn, Roy W.: *See—*
Killius, Robert J.; and Wiesenborn, Roy W.,3,444,960.
Wiesinger, Frederick C., to Marshall, John Donald, and Bomar, Horace L., mesne. Pattern lever control. 3,425,242, 2-4-69, Cl. 66-50.
Wiesinger, Frederick C., to Marshall, John Donald, and Bomar, Horace L., mesne. Pattern selecting mechanism. 3,425,243, 2-4-69, Cl. 66-50.
Wiesinger, Frederick C., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The. Control means for pile fabric knitting machines. 3,427,829, 2-18-69, Cl. 66-9.
Wiesinger, Frederick C.; Lyster, Thomas C.; and Reisener, William C., Jr., to Marshall, John Donald, and Bomar, Horace L., trustees of Carolina Patent Development Trust, The, mesne. Pattern control means for knitting machines. 3,423,960, 1-28-69, Cl. 66-25.
Wiesinger, Frederick C.; and Petko, Michael A., to Marshall, John Donald, and Bomar, Horace L., mesne. Pattern lever relieving device. 3,425,244, 2-4-69, Cl. 66-50.
Wiesler, Mordecha, to Teledyne, Inc., mesne. Slide assembly. 3,436,132, 4-1-69, Cl. 308-6.
Wiesler, Mordechai; and Goren, Avigdor, to Transistor Automation Corporation. Automatic probing apparatus. 3,446,065, 5-27-69, Cl. 73-105.
Wiesmann, Herbert-Ludwig, to Stanley Works G.m.b.H. Hinged bracket means adapted to pivotally support a visor and method of making same. 3,472,549, 10-14-69, Cl. 296-97.
Wiesner, Albert Henderson. Noise control safety device for automobiles. 3,475,618, 10-28-69, Cl. 307-10.
Wiesner, George Leonard, to American Cyanamid Company. Method for controlling temperature of an exothermic polymerization reaction. 3,485,808, 12-23-69, Cl. 260-85.5
Wiesner, Leo, to United States Time Corporation, The. Rate gyroscope. 3,425,283, 2-4-69, Cl. 74-5.6
Wiesner, Max: *See—*
Gersch, Josef; Wiesner, Max; Hoffacker, Franz; Barke, Hans Joachim; Johanns, Heinz; and Kreckeler, Fritz,3,481,552.
Wiesner, Richard, to Siemens Aktiengesellschaft. Method of producing integrated circuits and the like. 3,466,741, 9-16-69, Cl. 29-588.
Wiesner, Stephen Jay: *See—*
Howland, Bradford; and Wiesner, Stephen Jay,3,479,744.
Wiessner, Willi: *See—*
Broschke, Heinrich; Holle, Werner; and Wiessner, Willi,3,427,946.
Wiest, Lee Johnston, to Torginol of America, Inc. Rotary cutting apparatus. 3,477,625, 11-11-69, Cl. 225-96.
Wiest, Wilhelm: *See—*
Steinke, Leo; and Wiest, Wilhelm,3,457,461.
Wietelmann, Ronald E.; and Wittenbrook, Lawrence S., to Scott, O. M., & Sons Company, The. Benzyl, alkyl arsenic acids and the preparation thereof. 3,449,390, 6-10-69, Cl. 260-442.
Wieters, Albert W. Roll type duct crimper. 3,435,791, 4-1-69, Cl. 113-58.
Wiethoff, Roger H.: *See—*
Bauer, Myron J.; Neuman, Milton C.; and Wiethoff, Roger H.,3,477,338.
Neuman, Milton C.; and Wiethoff, Roger H.,3,448,655.
Wieting, Terence J.; Lawrence, Thomas R.; and Naiman, Charles S., to Sanders Associates, Inc., mesne. Thermal detector. 3,421,374, 1-14-69, Cl. 73-355.
Wietrzykowski, Paul J. Planetary bearing. 3,423,142, 1-21-69, Cl. 308-206.
Wiewiorowski, Tadeusz K., to Freeport Sulphur Company. Sulphur production. 3,447,903, 6-3-69, Cl. 23-226.
Wigert, John W; and Lesster, Laban E., to Westinghouse Electric Corporation. Light, heat and temperature control systems. 3,449,629, 6-10-69, Cl. 315-151.
Wiggers, Don J., to Engel Equipment, Inc. Method and apparatus for preparing fibrous material in board or sheet form to enable deformation thereof, especially bending thereof into corners. 3,481,813, 12-2-69, Cl. 156-211.
Wiggill, John Bentley, to Du Pont de Nemours, E. I., and Company. Silicic-hydrocarbon composites. 3,427,187, 2-11-69, Cl. 117-118.
Wiggin, Blanton C., to Advanced Instruments Inc. Clinical thermometer. 3,431,781, 3-11-69, Cl. 73-362.
Wiggins, Alpha M.; and Harris, George Allen, to Euphonics Corporation. Frequency selective amplifier and oscillator circuits employing piezoelectric elements to control frequency. 3,421,109, 1-7-69, Cl. 331-116.
Wiggins, E. B., Inc.: *See—*
Calisher, Jay V., 3,450,424.
Calisher, Jay V., 3,458,850.
Wiggins, Glenn C., to Dow Chemical Company, The. Protection of polished metal surfaces. 3,434,904, 3-25-69, Cl. 156-306.
Wiggins, Herbert M. Vertical hanging attachment for telephones. 3,480,741, 11-25-69, Cl. 179-146.
Wiggins, John H. Dry-seal pressure-type gasholders provided with stretch resistant seal structures and tensioned fender structures. 3,434,815, 3-25-69, Cl. 48-178.
Wiggins, John H. Gasholder provided with mechanism for preventing wrinkling of the flexible curtain seal incorporated therein. 3,434,816, 3-25-69, Cl. 48-179.
Wiggins, John H. Dry-seal pressure-type gasholder provided with hook lift structures. 3,436,196, 4-1-69, Cl. 48-178.
Wiggins, John H. Curtain clamping structure for gasholders. 3,438,758, 4-15-69, Cl. 48-174.
Wiggins, John H. Plural winch lifting unit. 3,480,255, 11-25-69, Cl. 254-173.
Wiggins, Leslie Frederick, to Aspro-Nicholas Limited. 1,3-Benzoxazine-2:4-dione and pharmacologically acceptable alkali metal salts thereof as analgesics. 3,443,014, 5-6-69, Cl. 424-248.
Wiggins, Reatha L. Plurality of aspirators. 3,430,628, 3-4-69, Cl. 128-276.
Wiggins, Richard F., to Gyromat Corporation, The. Recirculating system for flowable materials. 3,424,125, 1-28-69, Cl. 118-7.
Wiggins, Richard F., to Gyromat Corporation, The. Purging system for a spray painting installation. 3,458,133, 7-29-69, Cl. 239-112.
Wiggins Teape Research & Development Limited: *See—*
Osborn, Howard, 3,477,323.
Wigginton, Raymond J., to Laporte Titanium Limited. Polymeric organic titanate treated TiOα pigment. 3,432,323, 3-11-69, Cl. 106-300.
Wight, Carlyle G.; Hass, Robert H.; and Hansford, Rowland C., to Union Oil Company of California. Hydrocracking process and catalyst. 3,450,626, 6-17-69, Cl. 208-110.
Wight, Reed J. Device for loading turkeys in trucks. 3,452,718, 7-1-69, Cl. 119-82.
Wight, Robert D., to General Motors Corporation. Column-mounted centrally-located transmission shift control. 3,470,760, 10-7-69, Cl. 74-484.
Wightman, Dixon B.; and Burke, Thomas L., to Allied Farm Equipment, Inc. Manure loading apparatus. 3,483,960, 12-16-69, Cl. 198-7.
Wightman, Donald A.: *See—*
Gardner, Kenneth; and Wightman, Donald A.,3,442,532.
Wightman, Lawrance W., to Emerson Electric Co. Method of manufacturing dynamoelectric machine. 3,484,934, 12-23-69, Cl. 29-596.
Wightman, Lawrence W., to Emerson Electric Co. Snap ring drill chuck assembly. 3,462,164, 8-19-69, Cl. 279-62.
Wigley, Albert Fletcher. Taps. 3,469,598, 9-30-69, Cl. 137-334.
Wignall, Norman; and Ridyard, John, to United Merchants and Manufacturers, Inc., mesne. Machine for forming pile loops and stitch formation. 3,428,007, 2-18-69, Cl. 112-79.
Wigton, Elwin Cleland: *See—*
Taylor, Thomas Lester; and Wigton, Elwin Cleland,3,450,937.
Wigton, Henry F.: *See—*
De Marchi, Vincent S.; Neiman, Alfred S.; and Wigton, Henry F.,3,453,104.
Wiig, Chester M., to Littell, F. J., Machine Company. Combination coil stripper and straightening machine. 3,422,653, 1-21-69, Cl. 72-183.
Wijenberg, Joannes B. G.: *See—*
Kateman, Gerrit; von Morgen, Kurt; and Wijenberg, Joannes B. G.,3,421,855.
Wijkander, Svante Helmer, to Nydqvist & Holm Aktiebolag. Device for translating the position of an element axially displaceable in a rotatable shaft. 3,447,783, 6-3-69, Cl. 253-122.
Wijler, Bert H. L. M.: *See—*
Geerards, Jozef J. T. M.; and Wijler, Bert H. L. M.,3,449,283.
Wijnen, Marinus Dirk: *See—*
Haaijman, Pieter Willem; Wijnen, Marinus Dirk; and Hengst, Johannes Hubertus Theodorus,3,434,886.
Wijnen, Marinus Dirk; and Boter, Pieter Abraham, to U.S. Philips Corporation, mesne. Primary cell with persulfate depolarizer. 3,444,002, 5-13-69, Cl. 136-112.
Wik, Claes Gustaf: *See—*
Jansson, Robert Mauritz; Strandell, Erik Axel; and Wik, Claes Gustaf,3,456,708.
Wikdahl, Nils Anders Lennart: *See—*
Grundelius, Nils Roland; and Ahlborg, Nils Knut Gabriel, 3,486,619.
Wikdahl, Nils Anders Lennart. Multiple-cyclone separator installation. 3,486,618, 12-30-69, Cl. 209-144.
Wikey, Arnold. Sewing machine center. 3,438,687, 4-15-69, Cl. 312-21.
Wikler, Simon J. Shoe construction having a sole provided with a shank stiffener and selective elevated bone supporting areas. 3,421,518, 1-14-69, Cl. 128-614.
Wiklund, Georg. Arrangement at vertically adjustable stands. 3,486,583, 12-30-69, Cl. 187-18.

Wiklund, Per, to Allmanna Stalelement AB. Roofing panel with interlocking edges. 3,455,070, 7-15-69, Cl. 52-127.
Wiklund, Sven Anders Hilding, to Ab Nordstroms Linbanor. Mobile compressing device for compressing stacked material in conjunction with bundling the material by means of strapping or the like. 3,459,119, 8-5-69, Cl. 100-7.
Wikman, Andrew O.: *See—*
Baker, Ralph W.; McCarthy, John H.; Place, Harold G.; and Wikman, Andrew O.,3,468,968.
Wikman, Andrew O.; and Rogovin, Lawrence, to Ethyl Corporation. Alcohol purification. 3,468,965, 9-23-69, Cl. 260-643.
Wikne, Sverre: *See—*
Kurz, Fredrik Wilhelm Anton; and Wikne, Sverre,3,451,842.
Wiktor, Dominik M.: *See—*
Spinelli, Frank P.; and Wiktor, Dominik M.,3,435,390.
Spinelli, Frank P.; and Wiktor, Dominik M.,3,441,700.
Spinelli, Frank P.; and Wiktor, Dominik M.,3,443,252.
Wilansky, Harold, to Hilliard Corporation, The. Filter cartridge. 3,425,563, 2-4-69, Cl. 210-492.
Wilbert, Godfrey: *See—*
Hyden, Seymour; Scarano, Louis; and Wilbert, Godfrey,3,433,795.
Hyden, Seymour; Wetstein, Henry; and Wilbert, Godfrey,3,466,294.
Wilbert, Godfrey; Hyden, Seymour; and Wetstein, Henry, to Nepera Chemical Co., Inc. Pyridine esters of cyclopropanecarboxylic acid. 3,438,993, 4-15-69, Cl. 260-295.
Wilbert, Inc.: *See—*
Chandler, Wesley M.; Heuser, Paul F.; and Juba, Bernard T., 3,439,461.
Chandler, Wesley M.; and Juba, Bernard T., 3,464,171.
Wilborn, James C., & Sons, Inc.: *See—*
Phillips, Irving H., 3,429,071.
Wilbourn, David S.: *See—*
Dadekian, Zaven A.; and Wilbourn, David S.,3,432,561.
Dadekian, Zaven A.; and Wilbourn, David S.,3,471,561.
Dadekian, Zaven A.; and Wilbourn, David S.,3,472,900.
Wilbur, Benjamin: *See—*
Clark, Albert A.; Craig, Allen G.; and Wilbur, Benjamin,3,456,511.
Wilbur, Benjamin, to General Electric Company. Gear meshing arrangement. 3,449,977, 6-17-69, Cl. 74-409.
Wilbur, Donald E., Jr.: *See—*
Mitchell, James A.; Wilbur, Donald E., Jr.; and Wurtzell, Frederick W.,3,449,482.
Wilbur, Roy M. Curb forming machine. 3,472,134, 10-14-69, Cl. 94-46.
Wilburn, Garlington C.: *See—*
Broverman, Alvin Y.; and Wilburn, Garlington C.,3,447,112.
Wilburn, Warren Ernst. Method for sealing an anode button to a glass cathode ray tube funnel. 3,479,169, 11-18-69, Cl. 65-59.
Wilce, Emerson B.: *See—*
Boodman, Emil R.; McGuire, Douglas; and Wilce, Emerson B.,3,464,108.
Wilcher, Abrasha, to Manchester Hosiery Mills. Hosiery welt and method of making the same. 3,461,694, 8-19-69, Cl. 66-172.
Wilcher, Gayle A., to G.R.S. Engineering Co., Inc. Means to create a predetermined test pressure. 3,436,955, 4-8-69, Cl. 73-4.
Wilcken, Hugo. Helical coil type slide fastener. 3,435,490, 4-1-69, Cl. 24-205.13
Wilco Machine Work, Inc.: *See—*
Rola, Arthur E., 3,433,109.
Wilcox, Burdsal Gardner: *See—*
Comstock, Alfred E.; and Wilcox, Burdsal Gardner,3,433,278.
Wilcox, Charles A.: *See—*
Swaneck, Anthony J.; and Wilcox, Charles A.,3,469,711.
Wilcox, Clinton S., to General Signal Corporation. Frequency responsive train speed control apparatus. 3,482,090, 12-2-69, Cl. 246-182.
Wilcox, Clinton S.; and Wormsbecher, Roelof P., to General Signal Corporation. Solid state switching device for use in cab signaling systems. 3,441,731, 4-29-69, Cl. 246-63.
Wilcox, David L.: *See—*
Maissel, Leon I.; and Wilcox, David L.,3,458,926.
Wilcox, Dewitt Gifford, to Cleveland Fabricating Company, The. Reinforced sheet material. 3,442,750, 5-6-69, Cl. 161-57.
Wilcox, Edward D., Jr.: *See—*
Manfredonia, Mario; and Wilcox, Edward D., Jr.,3,430,409.
Wilcox Electric Company: *See—*
Warfield, John N., 3,437,937.
Wilcox Electric Company, Inc.: *See—*
Harries, William S.; Piper, Robert G.; Daugherty, Don G.; Scribner, Neal; and Asnani, Gul C., 3,470,557.
Woster, George W., 3,422,365.
Wilcox, Ernest W.; and Lillberg, John W., to United Aircraft Corporation. Lock means for fixing retaining bolts on rotating shafts. 3,480,307, 11-25-69, Cl. 287-53.
Wilcox, George E., to United States of America, Navy. Directional and ranging system employing radiation detectors. 3,436,539, 4-1-69, Cl. 250-83.3
Wilcox, Harold R., to Riggs & Lombard, Inc. System for controlling web tension. 3,446,451, 5-27-69, Cl. 242-75.43
Wilcox, Isaac L., to Phillips Petroleum Company. Tape handle applying machine. 3,437,544, 4-8-69, Cl. 156-354.
Wilcox, Isaac L., to Phillips Petroleum Company. Closure, and apparatus for making a closure. 3,447,734, 6-3-69, Cl. 229-43.
Wilcox, Isaac L., to Phillips Petroleum Company. Container and cover. 3,455,500, 7-15-69, Cl. 229-43.
Wilcox, Jack 'E', to Philco-Ford Corporation, mesne. Radar sweep integrator circuit. 3,448,451, 6-3-69, Cl. 343-17.1
Wilcox, Jack W.: *See—*
Adams, Cecil E.; Griffith, Randall E.; Miller, Charles R.; and Wilcox, Jack W.,3,481,276.
Wilcox, Norman G.; Croucher, William C.; and Ramaley, Edward J., to Martin-Marietta Corporation. Apparatus for producing resistance welds. 3,449,541, 6-10-69, Cl. 219-108.
Wilcox, Norman G.: *See—*
Ramaley, Edward J.; and Wilcox, Norman G.,3,443,056.
Wilcox, Orland W.: *See—*
Bloom, Aaron; Wilcox, Orland W.; and Mate, Peter I.,3,459,216.
Hotz, Leo F.; and Wilcox, Orland W.,3,467,093.
Wilcox, Quentin I.: *See—*
Pike, Kenneth R.; Wilcox, Quentin I.; and Cooper, Allen E.,3,430,604.
Wilcox, Raymond J., to Motor Wheel Corporation. Method of making a vehicle wheel rim. 3,438,111, 4-15-69, Cl. 29-159.1
Wilcox, Richard C.: *See—*
Vautaw, Robert L.; and Wilcox, Richard C.,3,469,653.
Wilcox, Roger L. Image translation system employing optical fibers. 3,461,223, 8-12-69, Cl. 178-5.2
Wilcox, Roy C.; and Kell, Furman D., to United States of America, Army, mesne. Helical tape scanner. 3,428,524, 2-18-69, Cl. 179-100.2
Wilcox, Stanley W., 1/2 to Century Geophysical Corporation. Pellet target. 3,477,724, 11-11-69, Cl. 273-102.4
Wilcox, Wayne E., to SRM Company, mesne. Misalignable fluid-tight coupling. 3,420,497, 1-7-69, Cl. 251-149.6
Wilcox, Wayne L., to Arcos Corporation. Process of electric arc welding. 3,424,892, 1-28-69, Cl. 219-137.
Wilcox, William L.; and Wagner, Richard E., to International Business Machines Corporation. Non-actuated inertial brake. 3,476,383, 11-4-69, Cl. 271-53.
Wilcoxen, Charles H., Jr., to Shell Oil Company. Process for isoprene polymerization and polyisoprene compositions. 3,454,546, 7-8-69, Cl. 260-94.2
Wilcoxen, Charles H., Jr.: *See—*
Shaw, Alfred W.; Wilcoxen, Charles H., Jr.; and Mango, Frank D.,3,427,364.
Wilczynski, Janusz S.: *See—*
Tibbetts, Raymond E.; and Wilczynski, Janusz S.,3,433,558.
Wild, A. G., & Co. Limited: *See—*
Bower, Lewis Robert, 3,431,737.
Wild, Anthony Musgrave: *See—*
Petrow, Vladimir; Stephensn, Oliver; and Wild, Anthony Musgrave,3,462,483.
Wild, Anton J. Stop means for packing equipment. 3,479,791, 11-25-69, Cl. 53-61.
Wild, Donald S. One-man transportation of small boats. 3,453,002, 7-1-69, Cl. 280-63.
Wild, Franklin J.; and Loughman, Stephen Robinson. Power swimming aid. 3,442,240, 5-6-69, Cl. 114-16.
Wild Heerbrugg AG: *See—*
Piske, Wilfried, 3,465,997.
Wild, James Aubrey, to Parks-Cramer (Great Britain), Ltd. Fiber waste disposal system for textile machines. 3,486,309, 12-30-69, Cl. 55-272.
Wild, John Thomas Henry: *See—*
Moore, John; and Wild, John Thomas Henry,3,458,070.
Wilde, Arthur G., Jr.; Maisel, Eugene F.; and Mickelson, Floyd L., to Diversey Corporation, The. Process and compositions for producing aluminum surface conversion coatings. 3,447,972, 6-3-69, Cl. 148-6.2
Wilde, Arthur G., Jr.: *See—*
Mickelson, Floyd L.; and Wilde, Arthur G., Jr.,3,448,055.
Wilde, Dale K.: *See—*
Dingwall, Andrew G. F.; and Wilde, Dale K.,3,442,718.
Wilde, Dennis; and Jack, Harry Ross Scarlett, to Pilkington Brothers Limited. Apparatus for transporting glass sheets on a gas module bed. 3,473,910, 10-21-69, Cl. 65-182.
Wilde, Frederick G.; and Booth, L. Gordon, to Addressograph-Multigraph Corporation. Diazo reproducing machine. 3,464,690, 9-2-69, Cl. 271-45.
Wilde, Friedrich; and Herrmann, Johannes, to Veb Tabak- und Industriemaschinen Dresden. Device for forming a compressed rod of tobacco. 3,473,537, 10-21-69, Cl. 131-84.
Wilde, Geoffrey Light; and Eyre, Donald, to Rolls-Royce Limited. Gas turbine jet propulsion engine. 3,462,953, 8-26-69, Cl. 60-226.
Wilde, Geoffrey Light; and Petrie, James Alexander. Rolls-Royce Limited Fan gas turbine engine. 3,465,524, 9-9-69, Cl. 60-226.

Wilde, Goeffrey Light: *See—*
Cowley, Sidney Ian; Wilde, Goeffrey Light; and Honey, Alfred John,3,465,525.
Wilde, James D.; and Feuer, Paul H., to Salem-Brosius (Canada), Limited. Walking beam furnace. 3,450,394, 6-17-69, Cl. 263-6.
Wilde, Kurt, 1/2 to Fluggeratewerk Bodensee GmbH. Laser beam apparatus for dynamic balancing of a workpiece. 3,482,075, 12-2-69, Cl. 219-121.
Wilde, Leon G. Switch control device. 3,454,735, 7-8-69, Cl. 200-166.
Wilde, Leon G.; Szczur, Albert; and Stephens, William J., to Z and D Industries, Inc. High speed loom. 3,451,438, 6-24-69, Cl. 139-187.
Wilde, Robert L., to Dart Mfg. & Sales Co. Apparatus and method for generating vibrations. 3,460,808, 8-12-69, Cl. 259-1.
Wilde, Thomas J. Method for making metallurgical coke. 3,444,047, 5-13-69, Cl. 201-6.
Wilder, Dallas Richard. Two-piece loudspeaker. 3,462,559, 8-19-69, Cl. 179-115.5
Wilder, Gene R.: *See—*
Young, Evan J.; and Wilder, Gene R.,3,427,281.
Young, Evan J.; and Wilder, Gene R.,3,481,983.
Wilder, Ira: *See—*
Lambert, Milton; Cymmer, Thomas; and Wilder, Ira,3,448,809.
Wilder, John Herbert Wyndham: *See—*
Burghard, Stephen Frederic; and Wilder, John Herbert Wyndham,3,451,662.
Wilder, John, Limited: *See—*
Burghard, Stephen Frederic; and Wilder, John Herbert Wyndham, 3,451,662.
Wilder, John W.: *See—*
Gignilliat, William W.; and Wilder, John W.,3,432,462.
Wilder, Lawrence B.: *See—*
Vincent, Renic P.; and Wilder, Lawrence B.,3,472,538.
Vincent, Renic Price; and Wilder, Lawrence B.,3,464,505.
Wilder, Leslie N., to Icore Industries. Can segregating machine. 3,455,443, 7-15-69, Cl. 209-74.
Wilder, Leslie N., to Icore, Industries. Cantilever beam scale with reduced cross sections for strain gauge attachment. 3,477,532, 11-11-69, Cl. 177-211.
Wilder, Perry J., to Waukesha Culvert Company. Apparatus for handling material having an irregular surface and vacuum head therefor. 3,485,393, 12-23-69, Cl. 214-89.
Wilder, Robert H.: *See—*
Aldrich, Merrill B.; and Wilder, Robert H.,3,450,104.
Wildhaber, Ernest. Gearing. 3,427,901, 2-18-69, Cl. 74-804.
Wildhaber, Ernest. Gear drive with axially overlapping gears. 3,451,290, 6-24-69, Cl. 74-804.
Wildhaber, Ernest. Gear drive with coaxial input and output members. 3,477,316, 11-11-69, Cl. 74-805.
Wildi, Bernard S., to Monsanto Company. Polyazlactones. 3,449,329, 6-10-69, Cl. 260-240.
Wildi, Bernard S.; and Tuemmler, William B., to Monsanto Company. Method for heating and evaporating aqueous solutions by the use of a polymethine salt. 3,441,075, 4-29-69, Cl. 159-47.
Wildi, Edwin; and Bischof, Benno, to Maschinenfabrik Benninger AG. Yarn tensioning device. 3,459,389, 8-5-69, Cl. 242-150.
Wildi, Gerard C.; and Brand, Horace D., 'W' Ribbons Limited. Woven tapes. 3,463,202, 8-26-69, Cl. 139-383.
Wildi, Paul: *See—*
Brower, David F.; and Wildi, Paul,3,486,356.
Jansen, Hansjorg; and Wildi, Paul,3,426,564.
Wildi, Paul, to Gulf General Atomic, Incorporated, mesne. Forming apparatus. 3,429,159, 2-25-69, Cl. 72-56.
Wildi, Paul, to Gulf General Atomic Incorporated. Electrodynamic actuator. 3,453,463, 7-1-69, Cl. 310-27.
Wildi, Paul, to Gulf General Atomic Incorporated. Contact system. 3,487,456, 12-30-69, Cl. 200-166.
Wildi, Theodore. Console-mounted modular unit. 3,441,330, 4-29-69, Cl. 312-333.
Wilding, Frank, to Imperial Chemical Industries, Limited. Process and apparatus for mixing viscous liquids. 3,427,002, 2-11-69, Cl. 259-4.
Wilding, Malcolm W.: *See—*
Rhodes, Donald W.; and Wilding, Malcolm W.,3,463,635.
Wildner, Walter, to M.A.N. Turbo GmbH. Exhaust gas deflecting pipe. 3,441,220, 4-29-69, Cl. 239-265.35
Wilds, Robert W.; and Meyer, Robert E., to E. W. Mold & Tool Co., Inc. Locked mold assembly. 3,473,197, 10-21-69, Cl. 18-42.
Wildt Mellor Bromley Limited: *See—*
Saunders, Alfred P., 3,422,639.
Widdowson, Albert H.; and Goadby, Walter, 3,422,638.
Wildwood Company: *See—*
Crowe, Byron A.; and Corp, Robert S., 3,453,928.
Wildy, Peter Charles; and Wilson, Donald, to Southern Instruments Limited. Mechanical drives. 3,434,358, 3-25-69, Cl. 74-103.
Wile, Daniel D.; Adachi, Shizuo R.; and Brainard, David S., to Borg-Warner Corporation. Refrigeration system including accumulator means. 3,429,139, 2-25-69, Cl. 62-278.
Wile, Daniel D.; and Brainard, David S., to Recold Corporation. Pressure control apparatus for refrigeration system. 3,435,626, 4-1-69, Cl. 62-196.
Wile, Ronald H., to Celanese Corporation. Aldoling process. 3,432,557, 3-11-69, Cl. 260-603.
Wile, Ronald H., to Celanese Corporation. Process for dehydrating an aldol. 3,468,957, 9-23-69, Cl. 260-603.
Wileman, David Gerald: *See—*
Goddard, Brian Walter; and Wileman, David Gerald,3,452,729.
Wilen, James G., to Sperry Rand Corporation. Function monitoring control circuitry. 3,475,726, 10-28-69, Cl. 340-147.
Wiler, Howard E. Leveler trim tab for boat hulls. 3,463,109, 8-26-69, Cl. 114-66.5
Wiley, Bruce F., to Phillips Petroleum Company. Measuring and recording apparatus. 3,441,942, 4-29-69, Cl. 346-33.
Wiley, Bruce F., to Phillips Petroleum Company. Sonic logging apparatus. 3,447,127, 5-27-69, Cl. 340-18.
Wiley, Calvert H. Bench saw moulding head guide. 3,454,062, 7-8-69, Cl. 144-253.
Wiley, Carl A., to North American Rockwell Corporation. Radar receiver employing a synthetic coherent reference. 3,483,558, 12-9-69, Cl. 343-7.
Wiley, Carl A.; Canaday, James A.; Loeschen, Herbert C.; and Gaston, James B., to North American Rockwell Corporation. High sensitivity unambiguous correlator. 3,450,869, 6-17-69, Cl. 235-181.
Wiley, Franklyn L.; and Amendt, Leroy E., to California Computer Products, Inc. Methods and systems for providing graphical displays. 3,434,113, 3-18-69, Cl. 340-172.5
Wiley, Fred E.: *See—*
Rogier, Edgar R.; and Wiley, Fred E.,3,447,999.
Wiley, Lawrence Grebe: *See—*
Sweeney, Joseph Patrick; and Wiley, Lawrence Grebe,3,444,532.
Wiley Manufacturing Company: *See—*
Isley, Nathaniel Edward; and Jacks, Herbert E. M., 3,430,920.
Mulholland, Lawrence K.; Kersteter, Ammon W.; and Baste, Adolph C. A., 3,448,711.
Rozanski, Henry A., 3,472,194.
Wiley, Morris A.: *See—*
Oberender, Frederick G.; Godfrey, Arthur W.; and Wiley, Morris A.,3,476,685.
Wiley, Paul F., to Upjohn Company, The. Antibiotic nogalamycin-N-oxide. 3,449,490, 6-10-69, Cl. 424-119.
Wiley, Richard E.: *See—*
Emich, Karl H.; and Wiley, Richard E.,3,485,742.
Wiley, Robert A., to Research Corporation. Tertiary amindalkyl phosphine compounds. 3,442,948, 5-6-69, Cl. 260-570.5
Wiley, Robert B.: *See—*
Alkire, William B.; and Wiley, Robert B.,3,421,526.
Wiley, Robert F., to Corning Glass Works. Apparatus for pressing articles of thermoplastic material. 3,434,821, 3-25-69, Cl. 65-320.
Wiley, Robert F., to Corning Glass Works. Timing apparatus. 3,469,602, 9-30-69, Cl. 137-624.2
Wilfert, Karl: *See—*
Barenyi, Bela; and Wilfert, Karl,3,473,821.
Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Drive axle for vehicles, especially motor vehicles. 3,426,862, 2-11-69, Cl. 180-73.
Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Double-walled motor vehicle door. 3,449,881, 6-17-69, Cl. 52-615.
Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Drive unit arrangement in automotive vehicles. 3,459,067, 8-5-69, Cl. 74-661.
Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Inflatable container for the protection of passengers of vehicles, especially of motor vehicles, against impact injuries in case of collisions. 3,476,402, 11-4-69, Cl. 280-150.
Wilfert, Karl; and Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Axle suspension for motor vehicles. 3,448,992, 6-10-69, Cl. 280-112.
Wilfert, Martin E.: *See—*
McIntyre, Robert G.; Ryer, Dudley A., Jr.; and Wilfert, Martin E.,3,481,568.
Wilferth, Robert A.; and Keenan, Peter B., to Xerox Corporation. Continuous tone thermoplastic photography. 3,485,623, 12-23-69, Cl. 96-1.1
Wilford, Edward Burke. Internal combustion engine. 3,475,905, 11-4-69, Cl. 60-30.
Wilger, John A.: *See—*
Allori, Aldo; and Wilger, John A.,3,463,277.
Wilham, Larry F., to American Standard, Inc. Attachment device for toilet seat hinge. 3,449,774, 6-17-69, Cl. 4-240.
Wilharm, Theo, to Bosch, Robert, Elektronik und Photokino GmbH. Motion picture projector. 3,460,889, 8-12-69, Cl. 352-124.
Wilharm, Theo; and Stieringer, Albert, to Bauer, Eugen, GmbH. Photographic camera with built-in exposure meter. 3,464,334, 9-2-69, Cl. 95-10.
Wilhelm, Donald M., to Rietz Manufacturing Co. Continuous press. 3,447,450, 6-3-69, Cl. 100-116.

Wilhelm, Frederick A., Jr., to Electronic Associates Inc. Carry-borrow system. 3,437,801, 4-8-69, Cl. 235-175.
Wilhelm, Frederick A., Jr., to Electronic Associates Inc. Boolian connective system. 3,454,310, 7-8-69, Cl. 328-92.
Wilhelm, Frederick A., Jr.: *See—*
Furman, Arthur R.; Greene, Harold R.; and Wilhelm, Frederick A., Jr.,3,483,530.
Schmidt, Raymond A.; Wilhelm, Frederick A., Jr.; and Kayle, William W.,3,434,111.
Wilhelm, Gary, to Stoeger Arms Corporation. Locking pin and method for locking a gun barrel to a gun frame. 3,464,136, 9-2-69, Cl. 42-75.
Wilhelm, George E.; and Nagy, Stanley S., to Thin Film Incorporated. Magnetic storage medium. 3,471,272, 10-7-69, Cl. 29-194.
Wilhelm, George F., to Bacon, R. S., Veneer Company. Method of forming fire retardant panels. 3,480,494, 11-25-69, Cl. 156-90.
Wilhelm, Gunther, to Siemens Aktiengesellschaft. Method of producing intermetallic super- conducting compounds of niobium and gallium. 3,425,825, 2-4-69, Cl. 75-62.
Wilhelm, Gunther, to Siemens Aktiengesellschaft. Process for providing superconductive layers of niobium-tin. 3,443,989, 5-13-69, Cl. 117-227.
Wilhelm, Hans: *See—*
Dachs, Karl; Wilhelm, Hans; Wick, Kurt; Schwenke, Wolfgang; and Naeder, Max,3,440,668.
Henkler, Herbert; Wilhelm, Hans; Floss, Josef Georg; Strehler, Hugo; and Brodt, Rudolf,3,486,903.
Kunde, Joachim; Wilhelm, Hans; and Doerfel, Helmut,3,471,447.
Wilhelm, Hans; Bille, Heinz; Hann, Ernst Wilhelm; and Dachs, Karl, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Finishing textile material with polyamide dispersions. 3,450,561, 6-17-69, Cl. 117-143.
Wilhelm, Hans; Henkler, Herbert; and Floss, Josef Georg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of printing plates. 3,486,891, 12-30-69, Cl. 96-35.1
Wilhelm, Hans; Mueller, Gerhard; Pflueger, Richard; and Doerfel, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polyamides stabilized with copper chelates. 3,458,474, 7-29-69, Cl. 260-45.75
Wilhelm, Harley A.; and Bergman, Roger M., to United States of America, Atomic Energy Commission. Method of chlorinating metals with carbon tetrachloride and carbon dioxide. 3,460,918, 8-12-69, Cl. 23-345.
Wilhelm, Harley A.; and McClusky, James K., to United States of America, Atomic Energy Commission. Carbon reduction process. 3,463,634, 8-26-69, Cl. 75-84.
Wilhelm, Harley A.: *See—*
Schmidt, Frederick A.; Carlson, Oscar N.; Krupp, William E.; and Wilhelm, Harley A.,3,425,826.
Wilhelm Hegenscheidt Kommanditgesellschaft: *See—*
Dombrowski, Theodor; and Kunze, Bernhard, 3,448,504.
Wilhelm Jackstadt & Co., Firma: *See—*
Jackstadt, Werner, 3,464,842.
Wilhelm, John H., to Margon Corporation. Doll eye and means pivoting the eye upon moving of its pivot axis within a plane. 3,478,465, 11-18-69, Cl. 46-169.
Wilhelm, Manfred: *See—*
Muller, Alfred; and Wilhelm, Manfred,3,442,823.
Paul, Bernt; Weiss, Herbert; and Wilhelm, Manfred,3,439,973.
Wilhelm, Max G., to Pillsbury Company, The. Method and apparatus for peeling fruits and vegetables under low moisture conditions. 3,480,057, 11-25-69, Cl. 146-231.
Wilhelm, Max: *See—*
Keberle, Heinrich; Faigle, Johann Werner; and Wilhelm, Max,3,471,548.
Schmidt, Paul; Eichenberger, Kurt; and Wilhelm, Max,3,475,443.
Schmidt, Paul; Eichenberger, Kurt; Rossi, Alberto; and Wilhelm, Max,3,444,177.
Schmidt, Paul; Schweizer, Ernst; Eichenberger, Kurt; and Wilhelm, Max,3,422,098.
Schmidt, Paul; Wilhelm, Max; and Eichenberger, Kurt,3,455,928.
Urech, Jakob; Fechtig, Bruno; Bosshardt, Rolf; Bickel, Hans; Schenker, Karl; and Wilhelm, Max,3,484,437.
Wilhelm, Max, to Ciba Corporation. 11-Aminoaliphatic-5,10-methanodibenzo[a,d][1,4] cycloheptadienes and the salts thereof. 3,423,425, 1-21-69, Cl. 260-326.14
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul, to Ciba Corporation. 5-(Ortho-alkenyloxyphenoxymethyl)-oxazolidinone- 2-compounds. 3,455,946, 7-15-69, Cl. 260-307.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul, to Ciba Corporation. Certain phenoxy oxazolidine derivatives. 3,480,640, 11-25-69, Cl. 260-296.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul, to Ciba Corporation. 1-(Isopropylamino)-2-hydroxy-3- (alkenyloxyphenoxy)propanes and the salts thereof. 3,483,221, 12-9-69, Cl. 260-326.14
Wilhelmi, Julius B.: *See—*
Danico, Henry F.; and Wilhelmi, Julius B.,3,477,090.
Wilhelmsburger Maschinenfabrik Hinrichs & Sohn: *See—*
Schluter, Walter, 3,476,001.
Wilhelmsen, Willy: *See—*
Braaten, Amund; and Wilhelmsen, Willy,3,478,505.
Wilhelmsen, Willy, to International Standard Electric Corporation. Cable winding machine with triangular central tube. 3,472,012, 10-14-69, Cl. 57-65.
Wilhelmsson, Gunnar, to Aktiebolaget Svenska Flaktfabriken. Cyclonic separator. 3,426,509, 2-11-69, Cl. 55-349.
Wilhelmy, Hans J. Television apparatus. 3,456,068, 7-15-69, Cl. 178-5.2
Wilhere, Charles V., to Horix Manufacturing Company. Rotary filling apparatus with fluidic valves. 3,441,066, 4-29-69, Cl. 141-148.
Wilhite, John E.: *See—*
Hunter, Robert D.; Keefer, David E.; and Wilhite, John E.,3,483,519.
Wilhite, Verbon Henry Bryce. Pump assembly. 3,429,272, 2-25-69, Cl. 103-148.
Wilhite, William F.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,443,416.
Wilhoit, Eugene Dennis, to Du Pont de Nemours, E. I., and Company. Preparation of dicarboxylic acids. 3,461,160, 8-12-69, Cl. 260-533.
Wilimzig, Herbert: *See—*
Stenger, Heinrich; and Wilimzig, Herbert,3,476,103.
Wilkaitis, Norman J.; and La Brot, Adrian G., to Olin Mathieson Chemical Corporation. Temperature sensor. 3,479,983, 11-25-69, Cl. 116-114.5
Wilke, Gunther, to Studiengesellschaft Kohle m.b.H.π-Allyl nickel compounds and their preparation. 3,422,128, 1-14-69, Cl. 260-439.
Wilke, Gunther, to Studiengesellschaft Kohle m.b.H.Process of producing π-allyl metal anion compounds. 3,424,777, 1-28-69, Cl. 260-439.
Wilke, Gunther, to Studiengesellschaft Kohle m.b.H. 11-Allyl transition metal compounds. 3,432,530, 3-11-69, Cl. 260-429.
Wilke, Gunther, to Studiengesellschaft Kohle m.b.H.π-Allyl transition metal adducts with Lewis acids and/or Lewis bases. 3,468,921, 9-23-69, Cl. 260-429.
Wilke, Gunther; and Breil, Heinz, to Studiengesellschaft Kohle m.b.H. Process for the production of complexes of transition metals with cyclooctatetraene. 3,450,728, 6-17-69, Cl. 260-429.
Wilke, Gunther; Muller, Ernst Willi; Kroner, Michael; Heimbach, Paul; and Breil, Heinz, to Studiengesellschaft Kohle m.b.H. Process for the production of carbon monoxide-free complex compounds of the transition metals. 3,450,732, 6-17-69, Cl. 260-429.
Wilke, Milton E., to Clevite Corporation. Magnesium batteries with improved cell seals and intercell connections and method of making the same. 3,427,202, 2-11-69, Cl. 136-100.
Wilke, Werner; and Fetzer, Hans, to Rex Asbestwerke, Graf von Rex K.G. Manufacture of purified asbestos products. 3,452,532, 7-1-69, Cl. 57-139.
Wilke, Werner; and Fetzer, Hans, to Rex Asbestwerke Graf von Rex K.G. Production of strands from fibrous material, particularly asbestos fibers. 3,475,894, 11-4-69, Cl. 57-58.89
Wilken, George Henry; and Ginter, Robert Aloyious, to Deere & Company. Monitoring device for internal combustion engine. 3,431,779, 3-11-69, Cl. 73-291.
Wilkenloh, Wilhelm; and Koppers, Manfred, to Reinstahl Wankeim GmbH. Mobile mine roof support. 3,474,628, 10-28-69, Cl. 61-45.
Wilkenloh, Wilhelm; and Koppers, Manfred, to Rheinstahl Wanheim G.m.b.H. Mobile mine roof support. 3,484,071, 12-16-69, Cl. 248-357.
Wilkens, August P. Pilfer-proof merchandising card holder. 3,481,482, 12-2-69, Cl. 211-57.
Wilkens, Gunter G.: *See—*
Ball, Jack; and Wilkens, Gunter G.,3,440,422.
Wilkens, Hans Joachim: *See—*
Shoh, Andrew; and Wilkens, Hans Joachim,3,469,211.
Wilkerson, Alan W., to Web Press Engineering, Inc. Static regenerative direct current motor control. 3,435,316, 3-25-69, Cl. 318-302.
Wilkerson, Alan W., to Web Press Engineering, Inc. Electrical control having improved firing circuit. 3,456,176, 7-15-69, Cl. 318-302.
Wilkerson, Alan W., to Web Press Engineering, Inc. Operational amplifier and regenerative motor control incorporating an operational amplifier. 3,456,177, 7-15-69, Cl. 318-302.
Wilkerson, Alan W., to Web Press Engineering, Inc. Regenerative direct current motor control having field and armature control. 3,458,790, 7-29-69, Cl. 318-258.
Wilkerson, Alan W., to Web Press Engineering, Inc. Regenerative direct current motor control having improved circuit means. 3,475,671, 10-28-69, Cl. 318-302.
Wilkerson, Alan W., to Web Press Engineering, Inc., mesne. Firing circuit for controlled rectifier means. 3,484,676, 12-16-69, Cl. 321-47.

Wilkerson, Alan W., to Web Press Engineering, Inc., mesne. Multiple pulse, extended range controlled rectifier firing circuit. 3,486,102, 12-23-69, Cl. 321-5.
Wilkerson Corporation: *See*—
Edwards, Richard A., 3,450,146.
Wilkerson, Edward D. Wheel alignment angle indicator. 3,426,438, 2-11-69, Cl. 33-203.2
Wilkerson, Edward D. Vehicle wheel alignment testing apparatus and method. 3,445,936, 5-27-69, Cl. 33-46.
Wilkerson, Ivan E. Method and apparatus for removing paraffin and solid deposits from an oil well. 3,438,444, 4-15-69, Cl. 166-304.
Wilkerson, Marvin R.: *See*—
Ivie, Charles V.; and Wilkerson, Marvin R.,3,465,227.
Wilkerson, Robert B., to General Electric Company. Fluid control devices. 3,420,255, 1-7-69, Cl. 137-81.5
Wilkerson, William D., to Bertea Corporation. Load feel computer. 3,450,375, 6-17-69, Cl. 244-77.
Wilkes, Donald F., to United States of America, Atomic Energy Commission. Roller-band devices. 3,452,175, 6-24-69, Cl. 200-153.
Wilkes, Donald F., to United States of America, Atomic Energy Commission. Roller-band devices. 3,452,309, 6-24-69, Cl. 335-209.
Wilkes, Donald F., to United States of America, Atomic Energy Commission. Roller-band devices. 3,471,668, 10-7-69, Cl. 200-153.
Wilkes, Donald F., to Rolamite Technology, Incorporated. Magnetically operated switching apparatus. 3,479,624, 11-18-69, Cl. 335-188.
Wilkes, Donald F., to Rolamite Technology, Incorporated. Magnetic switches. 3,486,143, 12-23-69, Cl. 335-205.
Wilkes, John B., to Chevron Research Corporation. Aliphatic dicarboxylic acid purification process. 3,433,830, 3-18-69, Cl. 260-514.
Wilkes, John B.: *See*—
Weber, Heinz P.; and Wilkes, John B.,3,449,464.
Wilkes, John George, to North American Philips Company, Inc. Coatings on germanium bodies. 3,436,285, 4-1-69, Cl. 156-17.
Wilkes, John George; and Rantell, Alan, to U.S. Philips Corporation, mesne. Formation of coating on germanium bodies. 3,442,775, 5-6-69, Cl. 204-37.
Wilkes, Raymond H., to Arcos Corporation. Segmented weld backing bar. 3,437,251, 4-8-69, Cl. 228-50.
Wilkes, William W.: *See*—
Attfield, Donald J.; and Wilkes, William W.,3,438,087.
Wilkie, James W.; and Cleland, Charles E., to Continental Machines, Inc. Band type cutoff saw for deep workpieces. 3,474,693, 10-28-69, Cl. 83-201.07
Wilkie, Robert C.: *See*—
Mason, Austin B.; and Wilkie, Robert C.,3,455,772.
Wilkin, Douglas G. Copyholder and assembler. 3,484,072, 12-16-69, Cl. 248-452.
Wilkin, Ellsworth D. Hose coupling. 3,441,296, 4-29-69, Cl. 285-174.
Wilkin, Ellsworth D., to McCulloch Corporation. Portable brush cutter. 3,453,732, 7-8-69, Cl. 30-296.
Wilkin, Ellsworth D., to McCulloch Corporation. Magnetic stopping device. 3,485,326, 12-23-69, Cl. 188-136.
Wilkin, G. Barron. Reclaiming conveyor. 3,435,964, 4-1-69, Cl. 214-10.
Wilkin, Ira Elmore. Control box for water faucets. 3,450,159, 6-17-69, Cl. 137-606.
Wilkins & Mitchell Limited: *See*—
Wilkins, Philip Arthur, 3,450,128.
Wilkins, Howard W., to Research Designing Services, Inc. Slide unit. 3,439,581, 4-22-69, Cl. 91-55.
Wilkins, James D.: *See*—
Hoch, Manfried L.; Zitko, Ronald F.; and Wilkins, James D.,3,427,753.
Wilkins, Jan: *See*—
Priede, Teodore; and Wilkins, Jan,3,465,969.
Wilkins, Oren C., to Hi-Shear Corporation. Thread rolling and rolled threaded objects. 3,481,178, 12-2-69, Cl. 72-469.
Wilkins, Philip Arthur, to Wilkins & Mitchell Limited. Duct adaptors. 3,450,128, 6-17-69, Cl. 126-307.
Wilkins, William B., to Reinforced Plastic Container Corporation. Work platform for scaffolds. 3,434,567, 3-25-69, Cl. 182-222.
Wilkins, William Burdette; and Wyrough, David J., to Midland-Ross Corporation. Method of making a pallet-type container. 3,481,808, 12-2-69, Cl. 156-189.
Wilkinson & Simpson Limited: *See*—
Palin, Arthur Thomas, 3,458,286.
Wilkinson, Anthony E. F., to Wilkinson Sword Limited. Razor blades and methods of manufacture thereof. 3,480,483, 11-24-69, Cl. 148-6.3
Wilkinson, Bernard Hall, to Rolls-Royce Limited. Process and apparatus for maintaining a gap in electrochemical machining. 3,453,192, 7-1-69, Cl. 204-143.
Wilkinson, Bernard H.; and Ogden, Harry, to Rolls-Royce Limited, and Ferranti Limited. Electro-chemical machining control system. 3,463,720, 8-26-69, Cl. 204-224.
Wilkinson, Bruce L., to Varo, Inc., mesne. Magnetic amplifier. 3,445,775, 5-20-69, Cl. 330-8.
Wilkinson, Bruce L.; and Le Vier, Paul W., to United States of America, Atomic Energy Commission. High speed commutating system for low level analog signals. 3,427,475, 2-11-69, Cl. 307-243.
Wilkinson, Dwight Martin, to B & K Machinery International Limited. Regenerative paint drying system for continuous strip. 3,437,321, 4-8-69, Cl. 263-3.
Wilkinson, Ernest Malcolm: *See*—
Emblem, Harold Garton; Hurt, Norman Albert; and Wilkinson, Ernest Malcolm,3,420,779.
Wilkinson, Geoffrey, to Ethyl Corporation. Group VIII metal thiocarbonyl compounds. 3,452,068, 6-24-69, Cl. 260-429.
Wilkinson, Geoffrey, to Ethyl Corporation. Organometallic compounds formed by reactions of rhodium monohalide compounds. 3,459,780, 8-5-69, Cl. 260-429.
Wilkinson, George C., Jr.; and Selman, Hugh L., to Collins Radio Company. Reference signal phase shift transition detector. 3,464,019, 8-26-69, Cl. 329-122.
Wilkinson, Harlen Edgar: *See*—
Muehling, Charles Lloyd; and Wilkinson, Harlen Edgar,3,483,964.
Wilkinson, Harry: *See*—
Hutchinson, Desmond Ernest; and Wilkinson, Harry,3,449,982.
Wilkinson, Herbert F., to Union Oil Company of California. Catalyst unloading and temperature control apparatus. 3,442,627, 5-6-69, Cl. 23-289.
Wilkinson, Herbert F., to Union Oil Company of California. Internal temperature controlling means for catalytic contacting apparatus. 3,455,658, 7-15-69, Cl. 23-289.
Wilkinson, Herbert F., to Union Oil Company of California. Hydrocracking process. 3,468,788, 9-23-69, Cl. 208-89.
Wilkinson, Jack E.: *See*—
Okumura, George K.; and Wilkinson, Jack E.,3,442,658.
Wilkinson, James W.; and Shaltis, Robert J., to Hastings Manufacturing Company. Disposable type filter. 3,426,900, 2-11-69, Cl. 210-130.
Wilkinson, James W.; and Shaltis, Robert J., to Hastings Manufacturing Company. Centrifugal air precleaner with blower. 3,469,566, 9-30-69, Cl. 123-119.
Wilkinson, Kenneth R., to Rye Limited. Measurement of circular dichroism. 3,446,557, 5-27-69, Cl. 356-95.
Wilkinson, Loy A.: *See*—
Henry, Joseph P.; and Wilkinson, Loy A.,3,474,153.
Wilkinson, Ralph L.; and Ciesla, Stanley F., to Corn Products Company. Starch film-formers. 3,472,671, 10-14-69, Cl. 106-214.
Wilkinson, Raymond George; and Shepherd, Robert Gordon, to American Cyanamid Company. Compositions and method of treating mycobacterium tuberculosis with 2,2'-(ethylenediimino)-di-1-butanols. 3,463,861, 8-26-69, Cl. 424-325.
Wilkinson, Robert J.; and Green, John W., to American Home Products Corporation. Automatic sample digesting device. 3,467,500, 9-16-69, Cl. 23-230.
Wilkinson, Robert R.: *See*—
Pope, Joseph I.; Rickert, Paul E.; and Wilkinson, Robert R.,3,443,399.
Wilkinson, Samuel C. W., to Crane Packing Limited. Rotary mechanical seals. 3,438,640, 4-15-69, Cl. 277-88.
Wilkinson Sword Limited: *See*—
Deacon, Roger Frederick, 3,425,877.
Farrell, Ronald H. V., 3,471,385.
Howlett, Rex R., 3,469,380.
Lovekin, Barry W., 3,470,081.
Martin, Colin E., 3,438,880.
Pope, Peter James, 3,425,167.
Rogers, Edward A., 3,458,933.
Somervell, Roland W. G.; and Kraty, Nigel P., 3,460,251.
Somervell, Roland W. G., 3,486,227.
Wilkinson, Anthony E. F., 3,480,483.
Wilkinson, Terence Sidwell: *See*—
Crampton, Felix Jeremy Philip; and Wilkinson, Terence Sidwell,3,440,827.
Wilkowski, Edward A., to Eaton Yale & Towne, Inc. Clutch for a vehicle drive. 3,481,436, 12-2-69, Cl. 192-35.
Wilkowski, Edward A.: *See*—
Roper, Daniel W.; Wilkowski, Edward A.; and Hass, David Peter,3,448,636.
Wilks, Louis P.; and Richter, Sidney B., to Velsicol Chemical Corporation. Process for the production of hexachlorometh- anoindene isomer. 3,435,081, 3-25-69, Cl. 260-648.
Wilks, Paul A., Jr., to Wilks Scientific Corporation. Apparatus for analyzing a continuously moving strip by means of attenuated total reflection. 3,460,893, 8-12-69, Cl. 356-96.
Wilks, Paul A., Jr., to Wilks Scientific Corporation. Multiple total internal reflection cell with cooling module. 3,486,829, 12-30-69, Cl. 356-246.
Wilks, Reginald Valentine. Golf practising device. 3,485,497, 12-23-69, Cl. 273-183.
Wilks Scientific Corporation: *See*—
Gaglione, John P., 3,478,206.

Wilks, Paul A., Jr., 3,460,893.
Wilks, Paul A., Jr., 3,486,829.
Will, James Hector MacDonald, to Datel Limited. Rotary switch and indexing means therefor. 3,466,407, 9-9-69, Cl. 200-11.
Will, Walter; Geist, Heinz; and Krebs, Karlheinz, to European Atomic Energy Community (Euratom). Apparatus for neutron selection by means of rotating switch rotor. 3,427,455, 2-11-69, Cl. 250-105.
Will-Burt Company, The: *See—*
Nye, Herman K., 3,436,866.
Willaman, Ernest R. Mounting bar for rearview mirrors. 3,481,574, 12-2-69, Cl. 248-480.
Willan, G. L., Limited: *See—*
Taylor, Leonard S., 3,461,216.
Willan, Geoffrey L., 3,450,823.
Willan, Geoffrey L., to Willan, G. L., Limited. Metal melting furnaces. 3,450,823, 6-17-69, Cl. 13-10.
Willard, Bernard S., Jr.: *See—*
Ambulos, Charles P.; Romboni, Albert H.; and Willard, Bernard S., Jr.,3,445,800.
Willard, Edwin J., to Longview Fibre Company. Lead-in table for paperboard slitting and transverse cut-off machinery. 3,478,654, 11-18-69, Cl. 93-58.2
Willard, Frank G.: *See—*
Brastins, Auseklis; and Willard, Frank G.,3,454,751.
Willard, Henry G., to General Electric Company. Quick-opening low cost, current limiting circuit breaker. 3,454,831, 7-8-69, Cl. 317-11.
Willard, John. Inclined carrousel propelled by weight- shifting of occupants to change the center of gravity. 3,439,914, 4-22-69, Cl. 272-33.
Willardson, Robert K.: *See—*
Bell, Irving J.; Robinson, Charles F.; and Willardson, Robert K.,3,483,028.
Willardson, Robert K.; and Robbins, Harry, to Bell & Howell Company. Strain gage. 3,443,167, 5-6-69, Cl. 317-234.
Willat, Arnold F. Audible fire alarm. 3,429,293, 2-25-69, Cl. 116-105.
Willco-Horgerate Medizinische Apparatebau, GmbH: *See—*
Hassler, Otto, 3,458,668.
Willcox & Gibbs, Inc.: *See—*
Du Buis, Edwin O.; and Cucksey, Edward L., 3,447,297.
Willcox & Gibbs Sewing Machine Co.: *See—*
Russell, Richard, 3,431,876.
Willcox, Frederick P.; and Smith, Newland F., to International Business Machines Corporation, mesne. Data transmission system and printer. 3,461,235, 8-12-69, Cl. 178-25.
Willcox, Frederick P.; and Smith, Newland F. Receiving station for selective-call data system. 3,469,243, 9-23-69, Cl. 340-172.5
Willcox, Frederick P.; and Smith, Newland F. Buffer storage apparatus for selective-call data system. 3,484,768, 12-16-69, Cl. 340-174.1
Willcox, Frederick Preston. Multistage impulse-operated rotary stepping motor. 3,469,124, 9-23-69, Cl. 310-49.
Willcox, Oswin B., to Du Pont de Nemours, E. I., and Company. TiO_2 production by chromium removal from beneficiated titaniferous ore. 3,423,178, 1-21-69, Cl. 23-202.
Willcox, Oswin B.; Kolb, Kenneth M.; and Amin, Rajnikant B., to Du Pont de Nemours, E. I., and Company. Opacifying-pigment glass composition. 3,459,574, 8-5-69, Cl. 106-300.
Willcox, Oswin Burr: *See—*
Emslie, Robert S.; Gulledge, Hugh C.; Lewis, George L.; and Willcox, Oswin Burr,3,484,260.
Wille, Herbert S., to Pullman Incorporated. Fifth wheel plate assembly. 3,484,124, 12-16-69, Cl. 287-20.
Wille, Herbert S.; Branson, Theodore A.; and Matushek, John W., to Pullman Incorporated. Cargo supporting arrangement. 3,437,055, 4-8-69, Cl. 105-366.
Wille, Knut: *See—*
Holtermann, Hugo; Haugen, Leif Gunnar; Thorsdalen, Nils; Tjonneland, Knut; Wille, Knut; and Koutroulos, Jean,3,476,802.
Wille, Myles A.: *See—*
Sulkowski, Theodore S.; and Wille, Myles A.,3,452,027.
Willems, Gunter: *See—*
Sitte, Richard; and Willems, Gunter,3,480,375.
Willems, Jozef Frans: *See—*
Bisschops, Johan Heinrich; Willems, Jozef Frans; and van Landeghem, Willy Karel,3,460,984.
Heugebaert, Frans Clement; and Willems, Jozef Frans,3,474,108.
Willems, Jozef Frans; van Veelen, George Frans; and De Haes, Maria Louis, to Gevaert-Agfa N.V. Silver complex diffusion transfer process. 3,431,108, 3-4-69, Cl. 96-29.
Willems, Jozef Frans; and Vandenberghe, Antoon Leon, to Gevaert-Agfa N.V. Photographic material. 3,438,777, 4-15-69, Cl. 96-29.
Sels, Francis Jeanne; Willems, Jozef Frans; Vrancken, Marcel Nicolas; and Willems, Jozef Frans,3,462,273.
Sels, Francis Jeanne; Willems, Jozef Frans; Vrancken, Marcel Nicolas; and Willems, Jozef Frans,3,462,273.
Willems, Jozef; Hendricx, Edwin Frans; Thiers, Robrecht Julius; and Onghena, Jozef, to Gevaert-Agfa N.V. Photographic light-sensitive materials containing phosphoric acid ester of aliphatic polyols. 3,443,951, 5-13-69, Cl. 96-94.
Willemstein, Anton: *See—*
de Ruiter, Jacob Willem; and Willemstein, Anton,3,436,465.
Willen, Donald W.: *See—*
Smith, James L.; and Willen, Donald W.,3,432,656.
Willenbacher, Erich M.: *See—*
Wulbrede, Ernst Diekiele; Willenbacher, Erich M.; and Gabler, Dieter K.,3,443,538.
Willersinn, Carl-Heinz: *See—*
Nonnenmacher, Helmut; Weitz, Hans-Martin; and Willersinn, Carl-Heinz,3,478,093.
Willersinn, Herbert: *See—*
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Weber, Heinz; and Willersinn, Herbert,3,457,204.
Burger, Heinz; Daumiller, Guenther; Grohmann, Johannes; Kastning, Ernst-Guenther; Mohr, Heinrich; Reuter, Lothar; Weber, Heinz; and Willersinn, Herbert,3,472,799.
Weber, Heinz; Burger, Heinz; Daumiller, Guenther; Willersinn, Herbert; and Grohmann, Johannes,3,420,786.
Willes, Robert L. Image converter having photo-sensitive material having a response time dependent on intensity of incident light. 3,450,885, 6-17-69, Cl. 250-211.
Willett, David A.: *See—*
Gutzmer, Alfred N.; and Willett, David A.,3,483,393.
Willett, Howard P., to Chemical Construction Corporation. Apparatus for removal of explosive gas from furnaces. 3,468,104, 9-23-69, Cl. 55-222.
Willett, John A., to Grace, W. R., & Co. Method of molding utilizing dielectric heating. 3,444,275, 5-13-69, Cl. 264-26.
Willett, Norman E.: *See—*
Marshall, Theodore W.; Rankin, Frederick W.; and Willett, Norman E.,3,445,317.
Willette, Lawrence A.: *See—*
Baller, Albert H.; and Willette, Lawrence A.,3,430,810.
Willetts, Elwood H. Helical torsion spring vehicle suspension. 3,484,118, 12-16-69, Cl. 280-104.5
Willey, George Lawrence: *See—*
Green, Albert Lawrence; and Willey, George Lawrence,3,456,009.
Willey, Grant S., to United States Gypsum Company. Fire resistant plaster product. 3,454,456, 7-8-69, Cl. 161-162.
Willgerodt, Werner, to VEB Medizintechnik Willgerodt. Injection device. 3,450,134, 6-17-69, Cl. 128-214.
Willgrubs, Theodore M.; Smith, William H.; and Learmont, Tom, to Bucyrus-Erie Company. Hydraulic power unit for a double-acting cylinder. 3,425,574, 2-4-69, Cl. 214-135.
Willhalm, Bruno; and Thomas, Alan Francis, to Firmenich & Cie. Hydrofurans as strawberry-like flavorings for foodstuffs and beverages. 3,455,702, 7-15-69, Cl. 99-140.
Willi, Richard B., to Baldwin-Lima-Hamilton Corporation. Method of reducing pressure rise in a hydraulic machine. 3,452,962, 7-1-69, Cl. 253-1.
William , John: *See—*
Parkinson, Peter; Kennedy, Thomas; and William , John,3,434,025.
William Cotton Limited: *See—*
Blood, Raymond, 3,465,548.
Cozens, Dennis Alan, 3,469,421.
Start, Ernest; and Blood, Raymond, 3,435,638.
William Prym-Werke KG: *See—*
Glindmeyer, Friedrich, 3,474,505.
Nysten, Bernhard, 3,466,714.
Nysten, Bernhard, 3,467,997.
Williamitis, Victor A.: *See—*
Jacobs, James W.; and Williamitis, Victor A.,3,451,227.
Mann, Leonard J.; and Williamitis, Victor A.,3,482,413.
Williams, Albert G., to Celanese Corporation. Oxymethylene polymer composition and fiber produced therefrom. 3,479,314, 11-18-69, Cl. 260-30.4
Williams, Albert Henry; and Vitols, Reinhard, to Caledex Machine Company. Box wrapping machines. 3,460,442, 8-12-69, Cl. 93-40.
Williams, Albert J., Jr.; and Mergner, George C., to Leeds & Northrup Company. Equal currents potentiometer circuits for measurements of resistances-particularly temperature-sensitive resistances. 3,447,075, 5-27-69, Cl. 324-62.
Williams, Albert J. Jr., to Leeds & Northrup Company. Ink supply for capillary pen. 3,452,361, 6-24-69, Cl. 346-140.
Williams, Albert J., Jr.: *See—*
Polster, Norman E.; Ross, Raymond W.; and Williams, Albert J., Jr.,3,460,155.
Duvall, Harold A.; and Williams, Albert J.,3,472,982.
Williams, Albert L.: *See—*
Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L.,3,450,772.

Williams, Albert L., to Mobil Oil Corporation. 2,4-Diphenoxybromobenzene and 2,4-diphenoxychloro- benzene as new compounds and synthetic lubricants. 3,449,442, 6-10-69, Cl. 260-613.
Williams, Albert L.; and Kinney, Robert E., to Mobil Oil Corporation. Nonlinear polyphenyl ether synthetic lubricants. 3,476,815, 11-4-69, Cl. 260-613.
Williams, Alfred J., Jr.: *See—*
Lanning, Harold W.; and Williams, Alfred J., Jr.,3,468,775.
Williams, Alfred L. W.: *See—*
Curran, Daniel R.; Gerber, William J.; and Williams, Alfred L. W.,3,423,700.
Williams, Amos F.: *See—*
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander,3,421,050.
Williams, Andrew. Self regulating brushless permanent magnet AC generator. 3,443,201, 5-6-69, Cl. 322-28.
Williams, Archie T. Bin structure. 3,478,914, 11-18-69, Cl. 220-4.
Williams, Arthur D.: *See—*
Klug, Henry G.; and Williams, Arthur D.,3,452,588.
Williams, Arthur J.: *See—*
Hodgson, Robert F.; and Williams, Arthur J.,3,482,590.
Williams, Arthur J., to Commercial Shearing & Stamping Company. Hydraulic valve. 3,457,951, 7-29-69, Cl. 137-596.
Williams, Arthur L.: *See—*
Taylor, Irving R.; and Williams, Arthur L.,3,446,933.
Williams, Bernard Leo; and Dorion, George Henry, to American Cyanamid Company. Photographic dodging method. 3,451,816, 6-24-69, Cl. 96-44.
Williams, Bertha: *See—*
Williams, Judson, deceased, late of Cornwells Heights, by; and Frankford Trust Company, executor, Philadelphia, Pa., 3,426,645.
Williams, Beverly E. Processes for improving the tenderness, color and richness of meat. 3,421,903, 1-14-69, Cl. 99-107.
Williams, Billy B.: *See—*
Riley, James E.; and Williams, Billy B.,3,432,918.
Williams, Billy J., to Continental Oil Company. Aluminum plating of surfaces. 3,464,844, 9-2-69, Cl. 117-46.
Williams, Billy J.; and Hatlelid, Elbert L., to Continental Oil Company. Method of aluminum plating with diethylaluminum hydride. 3,449,144, 6-10-69, Cl. 117-6.
Williams, Billy J.; and Kostas, George J., to Continental Oil Company. Coating surfaces with aluminum. 3,449,150, 6-10-69, Cl. 117-50.
Williams, Brown F.: *See—*
Simon, Ralph E.; Williams, Brown F.; and Wasserman, Ralph,3,478,213.
Williams, Carl J.: *See—*
Wilson, Ransford B.; Nicholas, Robert D.; and Williams, Carl J.,3,457,074.
Williams, Cester I. Single-wedge splicing device. 3,437,361, 4-8-69, Cl. 287-104.
Williams, Charles F. Automatic cartridge reloader. 3,483,792, 12-16-69, Cl. 86-27.
Williams, Charles F.: *See—*
Olliff, Martin T., Jr.; Lloyd, Julius E.; and Williams, Charles F.,3,436,295.
Olliff, Martin T., Jr.; Williams, Charles F.; Hagler, Travis J.; and Puckett, William R.,3,446,022.
Williams, Charles J., to Erie Development Company. Flexible screening panel. 3,483,976, 12-16-69, Cl. 209-395.
Williams, Charles L. Game with ball-receiving spaced divider members. 3,429,574, 2-25-69, Cl. 273-123.
Williams, Charles R.: *See—*
Foster, Scott H.; Larkin, James D.; and Williams, Charles R.,3,444,190.
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R.,3,429,858.
Slocombe, Robert J.; Dahms, Ronald H.; and Williams, Charles R.,3,449,300.
Williams, Charles S., Jr., to Texas Pipe Line Company, The. Specific gravity measuring system for interface detection. 3,453,868, 7-8-69, Cl. 73-32.
Williams, Charles S.: *See—*
Helms, John D.; and Williams, Charles S.,3,436,651.
Williams, Charles V., to Airflow Housewares Limited. Ironing tables. 3,443,328, 5-13-69, Cl. 38-104.
Williams, Charles W., Jr. Foldable stressed skin structure. 3,443,344, 5-13-69, Cl. 52-18.
Williams, Chester I. Mechanism for securing forms from a position of safety. 3,464,666, 9-2-69, Cl. 249-10.
Williams, Christian B.: *See—*
Richter, Frederick G.; Guerriere, Thomas V.; and Williams, Christian B.,3,460,147.
Williams, Christopher, 1/3 to Elton Industries, Inc., mesne. Lighting fixture having a lamp socket with insulation piercing means. 3,456,104, 7-15-69, Cl. 240-88.
Williams, Clifford C. Well casing supported water storage tank. 3,435,896, 4-1-69, Cl. 166-88.
Williams, Conrad M.: *See—*
Schindler, Albert I.; and Williams, Conrad M.,3,472,708.
Williams, Dale: *See—*
Bunn, Dorrance P., Jr.; Janes, Edward F.; and Williams, Dale,3,476,818.
Williams, David M. Planting method and apparatus. 3,467,278, 9-16-69, Cl. 222-1.
Williams, David R., to Ryan Aeronautical Co., The. Electrostrictive incremental film drive. 3,454,206, 7-8-69, Cl. 226-162.
Williams, David; and Lucey, George K., Jr., to United States of America, Army. Crush switch. 3,458,673, 7-29-69, Cl. 200-61.08
Williams, Derek: *See—*
Cornforth, David Arthur; Waddan, Dhafir Yusuf; and Williams, Derek,3,484,475.
Williams, Dewi L., to Northern Electric Company Limited. Apparatus for sorting electrical components by current consumption at prescribed voltage. 3,464,007, 8-26-69, Cl. 324-64.
Williams, Donald A. Optic center finder. 3,419,963, 1-7-69, Cl. 33-169.
Williams, E. R., Jr.: *See—*
Birchler, Robert O.; and Williams, E. R., Jr.,3,439,238.
Williams, Earl C.: *See—*
Olsson, Raymond G.; and Williams, Earl C.,3,438,668.
Williams, Earl J.: *See—*
Bush, Earnest E.; and Williams, Earl J.,3,437,053.
Williams, Earl Pierce: *See—*
Azorlosa, Julian Louis; Williams, Earl Pierce; and Field, Nathan D.,3,436,378.
Mayhew, Raymond L.; and Williams, Earl P.,3,436,463.
Williams, Edward C. Particulate materials dispenser. 3,432,079, 3-11-69, Cl. 222-199.
Williams, Edward: *See—*
Woodcock, Donald Bernard; and Williams, Edward,3,470,722.
Williams, Everard M.: *See—*
Hockenberry, Terry O.; and Williams, Everard M.,3,456,087.
Williams, Floyd D.: *See—*
Williams, Orville R.; and Williams, Floyd D.,3,452,575.
Williams, Frank H., 1/3 to Juten, Milford A. Connector means for fish tapes or the like. 3,479,013, 11-18-69, Cl. 254-134.3
Williams, Frank L., to International Concrete Systems Company. Method of forming concrete structures with treated form panels. 3,468,988, 9-23-69, Cl. 264-31.
Williams, George E.: *See—*
Dodge, Robert W.; and Williams, George E.,3,436,067.
Williams, George E., to Phillips Petroleum Company. Extrusion of thermoplastic polymers containing lubricant and carbon black. 3,455,863, 7-15-69, Cl. 260-33.4
Williams, George E.; and Held, Edward C., Jr., to Phillips Petroleum Company. Conveyor chain with tubular cooler and guide. 3,486,197, 12-30-69, Cl. 18-19.
Williams, George M.: *See—*
Ferguson, Leslie A.; and Williams, George M.,3,434,860.
Williams, George W. Apparatus for post-tensioning and interconnecting re-enforcing wires using key hole anchor plates in a concrete structure. 3,427,772, 2-18-69, Cl. 52-223.
Williams, Gerald W., Jr. Shaft speed and angular position indicating system. 3,421,371, 1-14-69, Cl. 73-189.
Williams, Glen W.: *See—*
Brock, Randall D., 3,478,199.
Williams, Glenn V., Jr., to Diamond International Corporation. Doctor for paper making machine. 3,450,098, 6-17-69, Cl. 118-126.
Williams Gold Refining Company, Inc.: *See—*
Petner, Eugene J., 3,470,615.
Petner, Eugene J.; Baumann, Erwin; and Cornell, John A., 3,471,596.
Williams, Gordon, to Formica International Limited. Handling apparatus for rigid sheet material. 3,425,687, 2-4-69, Cl. 271-55.
Williams, Harold Tooker: *See—*
Warner, Samuel, 3,456,091.
Williams, Harrison L.; and Eucker, Robert A., to Preformed Line Products Company. Cable spreader. 3,476,868, 11-4-69, Cl. 174-43.
Williams, Harry L., Jr.: *See—*
Dumas, Raymond E.; Williams, Harry L., Jr.; and Wood, Donald B.,3,450,569.
Williams, Harry V., to Innovation International, Inc. Egg handling machine. 3,448,782, 6-10-69, Cl. 146-2.
Williams, Homer K., Jr.: *See—*
Munroe, Clarnec R.; and Williams, Homer K., Jr.,3,443,560.
Williams Industries Inc.: *See—*
Dove, Oral L., 3,468,543.
Williams Instruments, Inc.: *See—*
Williams, Robert A., 3,464,416.
Williams, Ira E., to United States of America, Navy. Ramp for LST. 3,468,280, 9-23-69, Cl. 114-72.
Williams, Jack L. R., to Eastman Kodak Company. Mordants for bleachable filter layers. 3,444,138, 5-13-69, Cl. 260-65.
Williams, Jake Millard: *See—*
Barnett, Irwin; and Williams, Jake Millard,3,484,797.

Williams, James A.: *See*—
Watson, George A.; Williams, James A.; and Godwin, Joseph R.,3,466,861.
Williams, James D., to Hewlett Packard Company. Dual plug-in module. 3,425,025, 1-28-69, Cl. 339-75.
Williams, James F. Additive pump. 3,442,283, 5-6-69, Cl. 137-98.
Williams, James H.: *See*—
Boehm, Gilbert O.; Hoffman, Harry S., Jr.; and Williams, James H.,3,463,571.
Williams, James L.: *See*—
Bundy, Albert J.; and Williams, James L.,3,451,542.
Williams, James L., to Navarre Products, Inc., mesne. Motor driven web material dispenser. 3,450,363, 6-17-69, Cl. 242-55.53
May, Bob D.; and Williams, James L.,3,421,722.
Williams, James R.; and McIntosh, Euell K., to Monsanto Company. Treatment of filaments to develop latent bulkiness therein. 3,457,610, 7-29-69, Cl. 28-1.
Williams, James R.; and McIntosh, Euell K., to Monsanto Company. Bulky yarn having snarled filaments. 3,483,691, 12-16-69, Cl. 57-140.
Williams, James T., to Sunbeam Corporation. Toaster. 3,438,318, 4-15-69, Cl. 99-329.
Williams, James T., to Sunbeam Corporation. Electric food toaster. 3,461,274, 8-12-69, Cl. 219-542.
Williams, James W.; and Proctor, Phillip K., to Allied Insulation Company, d/b/a Permanent Pipe Products Co. Quick connection of pipe to ducting. 3,477,745, 11-11-69, Cl. 285-40.
Williams, Jeremy G. Automatic liquid level indicator. 3,473,102, 10-14-69, Cl. 318-482.
Williams, Jesse J., Jr.: *See*—
Delaney, Ronald A.; and Williams, Jesse J., Jr.,3,444,501.
Williams, Jimmy H.: *See*—
Seamands, Robert E.; and Williams, Jimmy H.,3,430,541.
Williams, John Covington, to American Machine & Foundry Company. Apparatus for forming accreted articles from a fibrous slurry. 3,442,757, 5-6-69, Cl. 162-387.
Williams, John E. C., to United States of America, Atomic Energy Commission. Superconductor magnet and method. 3,486,146, 12-23-69, Cl. 335-216.
Williams, John Eric Charles Watts, to United Kingdom Atomic Energy Authority. Composite superconductor having a core of superconductivity metal with a nonsuperconductive coat. 3,437,459, 4-8-69, Cl. 29-183.5
Williams, John H.: *See*—
Campbell, Robert N., Jr.; and Williams, John H.,3,426,878.
Williams, John R.: *See*—
Meldrum, Donald N.; and Williams, John R.,3,475,333.
Williams, Joseph S. Hydraulic responsive reel type exercising device. 3,481,198, 12-2-69, Cl. 73-379.
Williams, Judson, deceased, late of Cornwells Heights, by; and Frankford Trust Company, executor, Philadelphia, Pa., to Williams, Bertha. Attachment for making peripheral master cams. 3,426,645, 2-11-69, Cl. 90-13.9
Williams, Keith R.; and Smith, John G., to Shell Oil Company. Fuel cells with solid state electrolytes. 3,464,861, 9-2-69, Cl. 136-86.
Williams, Keith Vaughan; and Turner, Leonard, to British Petroleum Company Limited, The. Disproportionation process. 3,485,889, 12-23-69, Cl. 260-683.
Williams, Kenneth G., to United States of America, Navy. Frequency control system. 3,430,149, 2-25-69, Cl. 328-134.
Williams, Kenneth R.: *See*—
Chrastil, Alois; Ferguson, Roger W.; and Williams, Kenneth R.,3,484,323.
D'Amato, Salvatore F.; Williams, Kenneth R.; and Guertin, Clifford D.,3,483,772.
Williams, L Jack; Thayer, William J.; and Garnjost, Kenneth D., to Moog Industries, Inc. Single-stage proportional control servovalve. 3,455,330, 7-15-69, Cl. 137-596.
Williams, Lee C., to Westinghouse Electric Corporation. Exhaust tubulation for cathode ray tube. 3,485,931, 12-23-69, Cl. 174-17.07
Williams, Lee C.; and Butler, Bertram F., to Kinetics Corporation of California. Mechanical wire stripper. 3,447,177, 6-3-69, Cl. 15-23.
Williams, Leonard C., to United States of America, Atomic Energy Commission. Fuel element for neutronic reactor and method of fabrication thereof. 3,441,478, 4-29-69, Cl. 176-78.
Williams, Leonard E.; and Gruller, David L., to Cameron Iron Works, Inc. Connector for underwater pipelines. 3,481,396, 12-2-69, Cl. 166-0.6
Williams, Leslie A.: *See*—
Jeffreys, Roy A.; and Williams, Leslie A.,3,473,929.
Williams, Lester: *See*—
Alterman, Daniel S.; and Williams, Lester,3,434,508.
Williams, Lewis E., to General Motors Corporation. Bearing assembly with prestressing and retaining means. 3,476,021, 11-4-69, Cl. 92-187.
Williams, Lloyd Stuart: *See*—
McKinnon, Neil Alexander; Bennett, Colin Earl Garnsworthy; Williams, Lloyd Stuart; and McTaggart, Frederick Kenneth,3,432,296.
Williams, Lucien C.: *See*—
Allen, John W.; and Williams, Lucien C.,3,421,453.
Williams, Lynn A., to Anocut Engineering Company. Electrode for electrolytic shaping. 3,421,997, 1-14-69, Cl. 204-284.
Williams, Lynn A., to Anocut Engineering Company. Electrolytic shaping apparatus. 3,440,161, 4-22-69, Cl. 204-224.
Williams, Lynn A., to Anocut Engineering Company. Electrolytic shaping apparatus. 3,441,493, 4-29-69, Cl. 204-224.
Williams, Lynn A., to Anocut Engineering Company. Electrolytic shaping apparatus. 3,444,069, 5-13-69, Cl. 204-224.
Williams, Lynn A., to Anocut Engineering Company. Electrolytic shaping apparatus. 3,444,070, 5-13-69, Cl. 204-224.
Williams, Lynn A., to Anocut Engineering Company. Electrolytic deburring apparatus and method. 3,449,226, 6-10-69, Cl. 204-143.
Williams, Lynn A., to Anocut Engineering Company. Electrochemically machining a workpiece between advancing electrodes having juxtaposed working faces using alternating current. 3,466,235, 9-9-69, Cl. 204-143.
Williams, Lynn A., to Anocut Engineering Company. Electrolytic shaping apparatus. 3,472,754, 10-14-69, Cl. 204-224.
Williams, Margaret Anne: *See*—
Fitzpatrick, Wilfrid E., 3,440,666.
Williams, Marguerite R. Tensioning device for therapeutic appliances. 3,441,026, 4-29-69, Cl. 128-558.
Williams, Merl A., to Central Soya Company, Inc. Slug filling of bins. 3,438,520, 4-15-69, Cl. 214-152.
Williams, Merl A., to Central Soya Company, Inc. Treating soybean meal to inhibit caking. 3,469,994, 9-30-69, Cl. 99-98.
Williams, Michael Henry Currer: *See*—
Greenshields, James Nairn; Langley, Bernard William; Vickers, Edward Jervis; Walpole, Arthur Leonard; and Williams, Michael Henry Currer,3,424,846.
Donelan, James Arthur; and Williams, Michael,3,453,725.
Williams, Michael, to General Electric Company Limited, The. Arrangements for producing magnetic fields using superconducting magnets. 3,423,707, 1-21-69, Cl. 335-216.
Williams, Michael, to General Electric Company Limited, The. Method of making superconducting magnets. 3,427,710, 2-18-69, Cl. 29-599.
Williams, Neal T., to Sealtronics, Inc. Electrical switch having deformable moving contact arm. 3,465,109, 9-2-69, Cl. 200-33.
Williams, Noble S.: *See*—
Siegmund, Walter P.; and Williams, Noble S.,3,436,142.
Williams, Nolan H., to Siebert & Associates, Inc. Unloading system. 3,446,331, 5-27-69, Cl. 198-141.
Williams, Norman C.; and Booth, Dwight A., to Omark Air Controls, Inc., mesne. Dental aspirator. 3,435,841, 4-1-69, Cl. 137-118.
Williams, Norman C.; and Booth, Dwight A., to Omark Air Controls, Inc., mesne. Valve for evacuator. 3,438,607, 4-15-69, Cl. 251-9.
Williams, Norman C.; and Booth, Dwight A., to Omark Air Controls, Inc., mesne. Apparatus for controlling movement of an elongated element. 3,472,343, 10-14-69, Cl. 188-65.1
Williams, Norman H., to Varian Associates. Klystron amplifier employing a long line feedback circuit to provide a stable high power microwave generator. 3,461,401, 8-12-69, Cl. 331-83.
Williams, Orville R.; and Williams, Floyd D., 1/3 to Vian, Jack C. Vehicle frame and body straightening tool. 3,452,575, 7-1-69, Cl. 72-302.
Williams, Oscar Stanley; and Williams, Robert S. Window construction. 3,486,273, 12-30-69, Cl. 49-389.
Williams, Parry: *See*—
Jones, Stanley Harold; and Williams, Parry,3,449,285.
Williams Patent Crusher & Pulverizer Co., Inc.: *See*—
Williams, Robert M., 3,465,973.
Williams, Robert M., 3,477,650.
Williams, Paul H.: *See*—
McClure, James D.; and Williams, Paul H.,3,475,458.
Williams, Peter Douglas, to Honeywell Limited. Indicators. 3,481,304, 12-2-69, Cl. 116-70.
Williams, Peter M.: *See*—
Grey, Jerry; Nelson, Seymour T.; and Williams, Peter M.,3,426,533.
Williams, Philip J., to Stewart-Warner Corporation. Single action chair control. 3,453,024, 7-1-69, Cl. 297-304.
Williams Products, Inc.: *See*—
Williams, Willard F., 3,458,242.
Williams, Quentin H. Method and apparatus for sealing bags. 3,447,987, 6-3-69, Cl. 156-93.
Williams, Ralph L., d.b.a. Lectro Engineering Company: *See*—
Leach, Charles Christopher; and Williams, Ralph Lee, 3,428,801.
Williams, Ralph Lee: *See*—
Leach, Charles Christopher; and Williams, Ralph Lee,3,428,801.
Williams, Ralph L. Electrical discharge treating apparatus designed to provide a plurality of uniform spark discharges. 3,484,363, 12-16-69, Cl. 204-312.
Williams, Ralph P., to Phillips Petroleum Company. Plasticized sulfur compositions. 3,453,125, 7-1-69, Cl. 106-19.
Williams, Ralph P.: *See*—
Reinert, Andrew J.; and Williams, Ralph P.,3,433,873.

Williams, Raymond Anthony, to Ferranti, Limited. Duplex telegraphy frequency stabilizing systems. 3,424,864, 1-28-69, Cl. 178-58.
Williams, Raymond L., to General Electric Company. Flow control valve. 3,472,480, 10-14-69, Cl. 251-63.
Williams, Reginald Hugh: *See—*
Jordan, Arthur Edmund; and Williams, Reginald Hugh,3,459,249.
Williams Research Corporation: *See—*
Williams, Sam B., 3,443,775.
Williams, Sam B., 3,446,306.
Williams, Sam B., 3,482,302.
Williams, Richard E.; and Gerig, John S., to Scope Incorporated. Covert transmitter detector. 3,473,127, 10-14-69, Cl. 325-364.
Williams, Richard H., to Riegel Paper Corporation. Non-curl lamination. 3,458,375, 7-29-69, Cl. 156-152.
Williams, Richard M.: *See—*
Rodgers, John T.; Williams, Richard M.; and Larsen, Richard J.,3,420,244.
Williams, Richard Preston: *See—*
Safir, Sidney Robert; and Williams, Richard Preston,3,454,565.
Williams, Richard W. Stereophonic assembly. 3,467,392, 9-16-69, Cl. 274-2.
Williams, Richard, to Burroughs Corporation. Indicator lamp control circuit. 3,423,745, 1-21-69, Cl. 340-176.
Williams, Robert A., to RCA Corporation. Sense amplifier for magnetic memory. 3,434,123, 3-18-69, Cl. 340-174.
Williams, Robert A., to Williams Instruments, Inc. Sleep inducing method and headpiece. 3,464,416, 9-2-69, Cl. 128-410.
Williams, Robert C.; and Haigh, John M., to Albemare Paper Company. Manufacture of textryls. 3,431,334, 3-4-69, Cl. 264-122.
Williams, Robert E.; Ayers, Robert C., Jr.; and Cooke, Claude E., Jr., to Esso Production Research Company. Oil recovery process by miscible displacement. 3,444,930, 5-20-69, Cl. 166-273.
Williams, Robert E.; and Gerhart, Francis J., to Aerojet-General Corporation, mesne. Boron polymer. 3,457,039, 7-22-69, Cl. 23-204.
Williams, Robert E.: *See—*
Robinson, Leon H.; and Williams, Robert E.,3,461,965.
Williams, Robert F., Jr.; and Calloway, George P., Jr., to Eastman Kodak Company. Cellulose ester molded products and methods of manufacturing same. 3,463,773, 8-26-69, Cl. 260-227.
Williams, Robert F., Jr.; and Morrison, Edward D., to Eastman Kodak Company. Heat sealable polyethylene film, laminate and process for forming the same. 3,467,568, 9-16-69, Cl. 161-146.
Williams, Robert F., Jr.; Strebe, David E.; and Surridge, Kenneth G., deceased, said Williams assor. to Eastman Kodak Company. Heat-sealable polyethylene sheeting having thinly rolled coating of polyethylene admixed with paraffin. 3,436,246, 4-1-69, Cl. 117-65.2
Williams, Robert F., Jr.: *See—*
Calloway, George P., Jr.; and Williams, Robert F., Jr.,3,485,652.
Crane, Carlton L.; and Williams, Robert F., Jr.,3,467,746.
Dotson, Billy R.; Morrison, Edward D.; and Williams, Robert F., Jr.,3,483,023.
Williams, Robert G.: *See—*
Webbere, Fred J.; and Williams, Robert G.,3,433,284.
Williams, Robert H.: *See—*
Guarino, John P.; and Williams, Robert H.,3,459,648.
Williams, Robert J., to Dover Molded Products Company. Vial closure. 3,437,224, 4-8-69, Cl. 215-56.
Williams, Robert L.: *See—*
Green, Walter F.; Williams, Robert L.; and McCoy, Wyn E.,3,420,589.
Williams, Robert M., to Delve Inc. Sink strainer assembly. 3,457,570, 7-29-69, Cl. 4-190.
Williams, Robert M., to Williams Patent Crusher & Pulverizer Co., Inc. Reversible cage bar and mounting for hammer mills. 3,465,973, 9-9-69, Cl. 241-86.
Williams, Robert M., to Williams Patent Crusher & Pulverizer Co., Inc. Apparatus to provide inert atmosphere in material reducing mills. 3,477,650, 11-11-69, Cl. 241-47.
Williams, Robert S.: *See—*
Williams, Oscar Stanley; and Williams, Robert S.,3,486,273.
Williams, Roger A. Centering tool. 3,456,534, 7-22-69, Cl. 82-33.
Williams, Roger P.: *See—*
Mitchell, Donald W.; Murphy, Edwin M.; Kawenski, Edward M.; Nagy, John; and Williams, Roger P.,3,482,637.
Williams, Ronald. Gelatine compositions. 3,431,121, 3-4-69, Cl. 106-14.5
Williams, Ross E., to United States of America. Partially coherent optical correlator. 3,453,048, 7-1-69, Cl. 356-71.
Williams, Roy A.: *See—*
Cannon, Cyril G.; Davies, Barrie L.; Selwood, Alan; and Williams, Roy A.,3,468,117.
Cannon, Cyril G.; Selwood, Alan; Davies, Barrie L.; and Williams, Roy A.,3,486,318.
Williams, Roy Alan, to Imperial Chemical Industries Limited. Apparatus for making yarns of artificial polymeric material. 3,477,219, 11-11-69, Cl. 57-59.
Williams, Russell C.: *See—*
Batson, Robert R.; and Williams, Russell C.,3,460,280.
Williams, Russell C., to General Motors Corporation. Parallelogram draft assembly for scraper. 3,475,840, 11-4-69, Cl. 37-129.
Williams, Sam B., to Williams Research Corporation. Flight belt. 3,443,775, 5-13-69, Cl. 244-4.
Williams, Sam B., to Williams Research Corporation. Gas turbine for automotive vehicles. 3,446,306, 5-27-69, Cl. 180-66.
Williams, Sam B., to Williams Research Corporation. Method of manufacturing bellows type seals used in gas turbines. 3,482,302, 12-9-69, Cl. 29-454.
Williams, Samuel G.: *See—*
Genz, Roland L.; and Williams, Samuel G.,3,435,615.
Williams, Stanley Victor: *See—*
Masino, John Albert; Sturdevant, Eugene J.; and Williams, Stanley Victor,3,479,520.
Williams, Tegwyn Pierce: *See—*
Lester, Ralph; and Williams, Tegwyn Pierce,3,476,573.
Williams, Theodore M. Watch regulator. 3,478,508, 11-18-69, Cl. 58-109.
Williams, Thomas C.: *See—*
Omietanski, George M.; and Williams, Thomas C.,3,478,074.
Schank, Richard L.; and Williams, Thomas C.,3,449,289.
Williams, Thomas G., to Xerox Corporation. Answer comparison device. 3,453,752, 7-8-69, Cl. 35-39.
Williams, Thomas H., to Morton International, Inc. Epoxy composition. 3,468,824, 9-23-69, Cl. 260-18.
Williams, Thomas Richard: *See—*
Marshall, Hedley Samuel Bowdon; and Williams, Thomas Richard,3,423,340.
Williams, Thomas Walley, III, to Ealing Corporation, The. Air table. 3,429,544, 2-25-69, Cl. 248-346.
Williams, Thomas W.: *See—*
Fey, Robert M.; and Williams, Thomas W.,3,459,011.
Williams, Tom Winfield, to Reynolds Metals Company. Method for preparing metal particles. 3,442,988, 5-6-69, Cl. 264-8.
Williams, Virgel E.: *See—*
Fisher, Gerald E.; Noble, Thomas F.; and Williams, Virgel E.,3,428,788.
Williams, Walter D., to Symons Mfg., Company. Stringer-supporting bracket for a concrete floor slab form structure. 3,445,084, 5-20-69, Cl. 249-192.
Williams, Warner D.: *See—*
Farrand, William A.; Horsfall, Robert B.; Williams, Warner D.; and Marcum, Norman E.,3,482,232.
Williams, Warren A.: *See—*
Zielinski, Frederick C.; and Williams, Warren A.,3,424,992.
Williams, Warren W.: *See—*
Tangeman, Lawrence N.; and Williams, Warren W.,3,477,385.
Williams, Willard B. Float marker. 3,441,962, 5-6-69, Cl. 9-9.
Williams, Willard F., to Williams Products, Inc. Collapsible vanity. 3,458,242, 7-29-69, Cl. 312-258.
Williams, William Albert: *See—*
Rutledge, Ralph Martin; Henry, Robert L.; and Williams, William Albert,3,442,521.
Williams, William H.; and Nielsen, Knud, Jr., to Nielsen, Knud, Company, Inc., mesne. Artificial topiary forms and method. 3,438,839, 4-15-69, Cl. 161-22.
Williams, William J.: *See—*
Cox, Frank T., Jr.; Powers, Richard L.; and Williams, William J.,3,462,986.
Hendrickson, Thomas A.; Williams, William J.; and Stahl, William L.,3,481,252.
Williams, William J.; and Ray, Donald A., to Rockwell-Standard Company. Brake actuator assembly. 3,434,359, 3-25-69, Cl. 74-110.
Williams, William W., to United States of America, Navy. Inertia switch. 3,484,571, 12-16-69, Cl. 200-61.53
Williams, Zelmer Lee, 50% to Whited, Calvin. Oil filter with paper filtering element. 3,481,476, 12-2-69, Cl. 210-439.
Williams, Zelmer Lee, 50% to Whited, Calvin. Oil filter with paper filtering element. 3,481,478, 12-2-69, Cl. 210-439.
Williamsburg Steel Products Company: *See—*
Halpern, Ernst, 3,425,162.
Halpern, Ernst, 3,431,690.
Halpern, Ernst, 3,436,864.
Williamson & Company: *See—*
Higgins, Sigfried, 3,428,727.
Williamson, Andrew H., Jr.: *See—*
Andersen, Johan R.; Smith, Arnold R.; and Williamson, Andrew H., Jr.,3,426,308.
Williamson, Archie O.; Takata, Harry H.; and Gfroerer, Gerald T., to American Hoist & Derrick Company. Earth compaction roll pad and method. 3,483,806, 12-16-69, Cl. 94-50.
Williamson, Charles E.: *See—*
Dawson, Thomas P.; and Williamson, Charles E.,3,450,801.
Williamson, David Morton: *See—*
Kirk, David Neville; Petrow, Vladimir; Stansfield, Martin; and Williamson, David Morton,3,452,006.

Williamson, David Theodore Nelson; Kahn, Charles Henri; and Fayolle, Leon, to Molins Machine Company Limited. Turning apparatus. 3,472,103, 10-14-69, Cl. 82-1.
Williamson, David Theodore Nelson; and Muir, Douglas William Ballantyne, to Molins Machine Company Limited. Manufacture of cigarettes. 3,437,093, 4-8-69, Cl. 131-67.
Williamson Development Co., Inc.: *See—*
Nichols, Ivan A.; and Anderson, Alan S., 3,441,348.
Williamson, Donald E., to Cordis Corporation. Injection cartridge. 3,459,337, 8-5-69, Cl. 222-183.
Williamson, Douglas Herbert: *See—*
Ruffles, Philip Charles; and Williamson, Douglas Herbert,3,483,697.
Williamson, Douglas H., to Rolls-Royce Limited. Pressure exchangers. 3,486,686, 12-30-69, Cl. 230-69.
Williamson, Elmer V. Decorating stamp. 3,446,143, 5-27-69, Cl. 101-201.
Williamson, Everett Wayne: *See—*
McConnell, John A.; and Williamson, Everett Wayne,3,480,023.
Williamson, Floyd M., to Di-Dro Engineering Company. Apparatus for deep drawing metal with hydraulically controlled dies. 3,453,848, 7-8-69, Cl. 72-28.
Williamson, Henry John: *See—*
Watkins, Roland Howard Weir; and Williamson, Henry John,3,452,813.
Williamson, Ian: *See—*
Salter, Roy; Petrie, Harold Lishman; and Williamson, Ian,3,450,595.
Williamson, John Bentley: *See—*
Bailey, Hubert Charles; Williamson, John Bentley; and Capp, Clifford William,3,439,058.
Williamson, John T.: *See—*
Rhodes, Patrick D., 3,459,427.
Williamson, Leon B.: *See—*
McRae, Daniel D.; Glover, Edward B.; Williamson, Leon B.; and Frederick, Sinclair A.,3,426,327.
Williamson, Marshall I. Hinged hollow walled carton and blank therefor. 3,424,366, 1-28-69, Cl. 229-31.
Williamson, Robert Henry, to Vickers Limited. Floatable vessel. 3,474,749, 10-28-69, Cl. 114-0.5
Williamson, Robert R., to General Precision Systems Inc. High-speed stylographic apparatus and system. 3,452,360, 6-24-69, Cl. 346-140.
Williamson, Roger C.: *See—*
Hurley, Daniel J.; Kresge, Alfred N.; Rosenthal, Robert W.; and Williamson, Roger C.,3,437,573.
Williamson, Shellie O.: *See—*
Carlson, George A.; Weller, Dale E.; and Williamson, Shellie O.,3,462,972.
Williamson, T. D., Inc.: *See—*
Ver Nooy, Burton, 3,433,507.
Ver Nooy, Burton, 3,442,295.
Williamson, Thomas B.: *See—*
Baker, Don R.; Pacini, Harry A.; and Williamson, Thomas B.,3,474,146.
Williamson, Thomas N., to Hughes Tool Company. Sea bottom coring apparatus. 3,442,339, 5-6-69, Cl. 175-6.
Williamson, William Ian: *See—*
Kerrigan, Vincent; Trappe, Gordon; and Williamson, William Ian,3,454,533.
Williamson, William R.: *See—*
Houston, Harry H.; Keitel, Gerald A.; and Williamson, William R.,3,429,720.
Williamson, William R., to American Machine & Foundry Company. Multistage multieffect distillation system. 3,420,747, 1-7-69, Cl. 202-173.
Williamson, William R.; and Ritter, Robert, to Honeywell Inc. Caging device for simultaneously locking two gimbals. 3,473,391, 10-21-69, Cl. 74-5.1
Williford, Jerry G.: *See—*
Hutchinson, William M.; and Williford, Jerry G.,3,448,391.
Williford, Oscar H.: *See—*
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K.,3,426,158.
Williford, Richard A.: *See—*
Stipp, Louis C.; and Williford, Richard A.,3,482,633.
Willig, Frederick W. Angularly adjustable handle for paint rollers and the like. 3,419,931, 1-7-69, Cl. 15-144.
Williges, George R.: *See—*
Henselman, Richard O.; Catto, Vincent P.; Williges, George R.; and Hollyday, William C., Jr.,3,458,430.
Willinger, Allan H., to Aquariums Incorporated. Bottom aquarium filter. 3,477,580, 11-11-69, Cl. 210-169.
Willingham, William E., Jr. Pocket scoring device. 3,455,273, 7-15-69, Cl. 116-133.
Willis, Beuford N.: *See—*
Belk, Wilber C.; Willis, Beuford N.; and Mulford, Charles T.,3,448,845.
Willis, Bobby G., to Willis-Way Corp. Router tool with saw chain cutters. 3,425,467, 2-4-69, Cl. 144-218.
Willis, David M., to Butte Knitting Mills, Div. of Logan, Jonathan, Inc. Method of stabilizng bulked continuous filament thermoplastic yarn. 3,425,110, 2-4-69, Cl. 28-75.
Willis, David M., to Butte Knitting Mills, Div. of Logan, Jonathan, Inc. Yarn package support. 3,433,432, 3-18-69, Cl. 242-118.1
Willis, Donald Henry: *See—*
Anderson, George Edward; and Willis, Donald Henry,3,487,165.
Willis, Donald H., to RCA Corporation. Video amplifier transient response control circuit. 3,472,954, 10-14-69, Cl. 178-7.3
Willis, Donald R.: *See—*
Riggin, Lance E.; Willis, Donald R.; and Wuster, Walter L.,3,487,167.
Willis, Flake, to Pullman Incorporated. Railway vehicle platform moving arrangement. 3,438,519, 4-15-69, Cl. 214-38.
Willis, Frank M.: *See—*
Sosnowicz, Edward J.; and Willis, Frank M.,3,442,105.
Willis, Harry Arthur; and Boyes, William Allan, to Imperial Chemical Industries Limited. Method and apparatus for measuring the thickness of a film. 3,437,811, 4-8-69, Cl. 250-83.3
Willis, John C.; and Sundberg, Odd B., to Alaska Peelers, Inc. Process and apparatus of feeding shrimp to deshelling means and of deshelling shrimp. 3,465,383, 9-9-69, Cl. 17-73.
Willis, John C.; and Sundberg, Odd B., to Alaska Peelers, Inc. Process and apparatus of deshelling cooked shrimp. 3,466,699, 9-16-69, Cl. 17-73.
Willis, John Marden: *See—*
Lynes, Roberts Kitchener; Willis, John Marden; and Taylor, John William,3,484,074.
Willis, John W.: *See—*
Biegel, Donald R.; and Willis, John W.,3,436,526.
Willis, Norman Edwin; and Naylor, Donald Brian, to Brown and Williamson Tobacco Corporation. Garniture for continuous-rod cigarette machinery. 3,485,144, 12-23-69, Cl. 93-1.
Willis Oil Tool Co.: *See—*
Baker, William J., 3,426,797.
Willis, Robin Burke; Beattie, David Lloyd George; and Swann, Ferris, to Porta-Test Manufacturing Ltd. Cyclone separator. 3,481,118, 12-2-69, Cl. 55-338.
Willis, Thomas G.; and Knecht, Eugene C., to Westinghouse Electric Corporation. Interval timer. 3,440,370, 4-22-69, Cl. 200-38.
Willis, Victor M., to Sherwin-Williams Company, The. Universal color base for coating compositions. 3,483,009, 12-9-69, Cl. 106-287.
Willis, Wilfred Ernest: *See—*
Campbell, James Samuel; and Willis, Wilfred Ernest,3,445,041.
Willis, William D.: *See—*
Vandenberg, Edwin J.; and Willis, William D.,3,474,045.
Willis, William J.: *See—*
Fisk, Harold E.; and Willis, William J.,3,485,981.
Willis-Way Corp.: *See—*
Willis, Bobby G., 3,425,467.
Willison, Alfred G. Expandable camper canopy for pickup trucks. 3,447,830, 6-3-69, Cl. 296-26.
Willits, George W., Jr., to Selfix, Inc. Flexible, multilayer panels or strips. 3,425,889, 2-4-69, Cl. 161-43.
Willliam Prym-Werke K.G.: *See—*
Glindmeyer, Friedrich; and Darandik, Fritz, 3,444,598.
Willm, Pierre; and Delams, Rene, to Institut Francais du Petrole des Carburants et Lubrifiants. Semi-submersible floating structure of high stability. 3,443,543, 5-13-69, Cl. 114-0.5
Willmund, Wolf-Dieter: *See—*
Weichbrodt, Maria; and Willmund, Wolf-Dieter,3,459,666.
Willoner, Gideon: *See—*
Herrero, Jose Luis; and Willoner, Gideon,3,473,142.
Willott, Michael Christopher Kenneth: *See—*
Dunning, Robert William; Joshi, Kamalakant Krishnarao; Oldham, Alan Roger; and Willott, Michael Christopher Kenneth,3,463,830.
Willoughby, Joseph A., to Texas Instruments, Incorporated. Method of joining metal materials having different characteristics. 3,475,816, 11-4-69, Cl. 29-630.
Willox, J. Hebden. Electric pole line structure with riser cable in a ventilated duct. 3,454,706, 7-8-69, Cl. 174-45.
Wills, B. C., & Company: *See—*
Roberts, Marvin E., 3,433,185.
Wills, Connable F.: *See—*
Sperling, Irving; and Wills, Connable F.,3,445,577.
Wills, Thomas M.: *See—*
Olson, Edwin G.; Wills, Thomas M.; and Yunan, Malak E.,3,474,500.
Willsey, Charles H. Egg breaking machine. 3,480,056, 11-25-69, Cl. 146-2.
Willsey, Charles H.; and Majors, Francis W., to Seymour Foods, Inc., mesne. Egg handling equipment. 3,461,459, 8-12-69, Cl. 53-55.
Willson, James R., to Robertshaw Controls Company. Heating control system with time delay relay. 3,428,041, 2-18-69, Cl. 126-110.

Willson, James R., to Robertshaw Controls Company. Valve construction and parts therefor or the like. 3,454,222, 7-8-69, Cl. 236-99.
Willson, James R., to Robertshaw Controls Company. Temperature control systems using a time delay relay. 3,472,220, 10-14-69, Cl. 126-110.
Willson, Karl S.: *See—*
Du Rose, Arthur H.; Willson, Karl S.; and Tejada, Gustavo C.,3,428,441.
Willson, Michael John: *See—*
Butcher, John Anthony Weeks; Pullum, Geoffrey George; and Willson, Michael John,3,433,902.
Willy, John, to Specialty Converters, Inc. Method of preparing and molding chemical foaming mixtures. 3,468,987, 9-23-69, Cl. 264-28.
Willyard, Roger A., to Reliance Electric and Engineering Co., The, mesne. Weighing scale keyboard tare adjustment means. 3,446,300, 5-27-69, Cl. 177-168.
Willyoung, David M., to General Electric Company. Gap pickup rotor with radially extended outlets. 3,435,263, 3-25-69, Cl. 310-61.
Willyoung, David M., to General Electric Company. Dynamoelectric machine gap pick rotor wedges. 3,440,462, 4-22-69, Cl. 310-61.
Willyoung, David M., to General Electric Company. Multiple circuit armature winding for polyphase dynamoelectric machine. 3,476,964, 11-4-69, Cl. 310-198.
Willyoung, David M., to General Electric Company. Retaining ring locking structure. 3,476,966, 11-4-69, Cl. 310-270.
Wilm, August L. M., to AMP Incorporated. Electrical connector receptacle. 3,426,320, 2-4-69, Cl. 339-258.
Wilm, Diederich; Flasskamp, Willi; Broft, Eduard; and Jordan, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Apparatus for separating solid matter from aerosol suspensions. 3,473,300, 10-21-69, Cl. 55-302.
Wilmanns, Frederick A.; and Ott, Edward A., to Weinbrenner Shoe Corporation, The. Safety shoes. 3,470,630, 10-7-69, Cl. 36-72.
Wilmarth, Paul C.: *See—*
McDonald, James A.; and Wilmarth, Paul C.,3,441,790.
Wilmers, Gottlieb: *See—*
Huber, Eugen Wilhelm; and Wilmers, Gottlieb,3,483,694.
Wilmore, William W.: *See—*
Tsutsumi, Masato; and Wilmore, William W.,3,485,277.
Wilmotte, Raymond M. Electro-optical correlator. 3,432,647, 3-11-69, Cl. 235-181.
Wilmotte, Raymond M. Correlation of information with electro- optical scanning. 3,467,829, 9-16-69, Cl. 250-219.
Wilmotte, Raymond M. Information processing and display with optical correlation. 3,479,494, 11-18-69, Cl. 235-181.
Wilms, Hugo: *See—*
Heydkamp, Wolfgang; Muller, Erwin; and Wilms, Hugo,3,474,126.
Heydkamp, Wolfgang; Wilms, Hugo; Kallert, Wilhelm; and Dieterich, Dieter,3,471,448.
Wilmsen, George M.; and Alsys, Clarence M., to Tec-Pak, Inc. Nondestructive testing of shirred casing. 3,474,662, 10-28-69, Cl. 73-40.7
Wilsco Sales and Engineering Company, Inc.: *See—*
Stothoff, William L., III.; and Johnson, Herbert G., 3,461,803.
Wilsher, Rudolph S.: *See—*
Newman, Neil F.; and Wilsher, Rudolph S.,3,456,038.
Wilshin, Frank William: *See—*
Marsh, Hugh Robert Waring; and Wilshin, Frank William,3,430,950.
Wilsin, Rosalie S.: *See—*
Parsont, William; and Wilsin, Rosalie S.,3,445,862.
Wilson & Co., Inc.: *See—*
Bedker, Miles P., 3,459,659.
Wilson, Alan Herbert: *See—*
Wright, Felix William; and Wilson, Alan Herbert,3,469,626.
Wilson, Alan W. Torch cutting machine. 3,464,684, 9-2-69, Cl. 266-23.
Wilson, Alec Frank, to Coates Brothers & Company Limited. Polyamide resins having solubility and resistance to gelling in alcohol solutions. 3,420,789, 1-7-69, Cl. 260-18.
Wilson, Alexander Ian, to Hille Engineering Company Limited, The. Rolling mill apparatus. 3,433,045, 3-18-69, Cl. 72-239.
Wilson, Alexander Ian, to Hille Engineering Company Limited, The. Rolling mill apparatus. 3,485,077, 12-23-69, Cl. 72-229.
Wilson, Alexander John; Coldfield, Sutton; and Ingham, Peter Charles, to Girling Limited. Self-energizing disc brake. 3,422,932, 1-21-69, Cl. 188-73.
Wilson, Arthus S.: *See—*
Villani, John A.; and Wilson, Arthus S.,3,482,607.
Wilson, Augustus B., Jr., to International Telephone and Telegraph Corporation. Automatic fluid sampler. 3,442,136, 5-6-69, Cl. 73-422.
Wilson, Bernard, to General Electric Company Limited, The. Microwave modulator using variable capacitance diode. 3,423,698, 1-21-69, Cl. 332-51.
Wilson, Bernard: *See—*
Medford, Albert; and Wilson, Bernard,3,421,086.
Wilson Bertram A. Luminous sound absorbing ceiling. 3,460,299, 8-12-69, Cl. 52-144.
Wilson, Billy J., du Pont de Nemours, E. I., and Company. Washdraw apparatus. 3,421,346, 1-14-69, Cl. 68-175.
Wilson, Billy N. Suntanning device. 3,483,871, 12-16-69, Cl. 128-372.
Wilson, Bonum S., Jr.; and Von Doenhoff, Carl, to Carborundum Company, The. Process for producing silicon carbide articles employing pyromellitic dianhydride-limonene dioxide mixture. 3,459,566, 8-5-69, Cl. 106-44.
Wilson, Bruce N.: *See—*
Bowman, Russel A.; and Wilson, Bruce N.,3,455,995.
Bowman, Russel A.; and Wilson, Bruce N.,3,471,411.
Wilson, Bruce W. Process for preconditioning a non-metallic surface for chemically depositing a metal thereon. 3,421,922, 1-14-69, Cl. 117-47.
Wilson, Burton D., to Eastman Kodak Company. Antihalation compositions containing pentamethine oxonol dyes in aromatic alcohols. 3,480,436, 11-25-69, Cl. 96-84.
Wilson, Burton J., to United States of America, Navy. Sea water battery. 3,432,350, 3-11-69, Cl. 136-90.
Wilson, Burton J., to United States of America, Navy. Magnesium anode primary cell. 3,462,309, 8-19-69, Cl. 136-100.
Wilson, Carter L. Holster. 3,445,046, 5-20-69, Cl. 224-26.
Wilson, Charles B., to Trak Microwave Corporation. Miniature high power microwave radio transmitter. 3,470,476, 9-30-69, Cl. 325-120.
Wilson, Charles Kenneth, to Metco Inc. Powder feed arrangement for flame spray gun. 3,482,782, 12-9-69, Cl. 239-85.
Wilson, Charles L., to Judsonia Bronze Memorials, Inc. mesne. Grave marker. 3,423,864, 1-28-69, Cl. 40-124.5
Wilson, Charles M.; and Goman, Edwin F. Circuit breaker for vehicle lights. 3,467,831, 9-16-69, Cl. 307-10.
Wilson, Charles P., Jr.: *See—*
Baker, Richard W.; Ciapetta, Frank G.; Wilson, Charles P., Jr.; and Maher, Philip K.,3,425,956.
Wilson, Charles R.: *See—*
Ballard, Donald S.; Wilson, Charles R.; and Burns, Harlan G.,3,468,569.
Wilson, Charles V.: *See—*
Beavers, Dorothy J.; Wilson, Charles V.; and Allen, Charles F. H.,3,426,029.
Ford, John A., Jr.; and Wilson, Charles V.,3,468,912.
Wilson, Clarence W., to Sunkist Growers, Inc. Ink composition for marking food products. 3,431,122, 3-4-69, Cl. 106-22.
Wilson, Claude A.: *See—*
Reid, Philip L.; Kallas, William E.; and Wilson, Claude A.,3,462,966.
Wilson, Claude D., to Xerox Corporation, mesne. Image stabilization of optical imaging systems. 3,456,074, 7-15-69, Cl. 178-7.2
Wilson, Clyde R.: *See—*
Iverson, Clarence W., Jr.; and Wilson, Clyde R.,3,472,117.
Wilson, Curtis L. Generator. 3,431,444, 3-4-69, Cl. 310-168.
Wilson, Dan M.: *See—*
Stephens, Joe F.; and Wilson, Dan M.,3,456,147.
Wilson, David Charles: *See—*
Cook, Alan Hugh; Rowley, William Richard Charlton; and Wilson, David Charles,3,469,205.
Cook, Alan Hugh; Rowley, William Richard Charlton; Stanley, Victor William; Wilson, David Charles; and Hitchens, Robert George,3,486,824.
Wilson, David G.: *See—*
Blattner, Ernest W.; Boettcher, Harry H.; Carter, Anthony F.; Heitmann, Arnold M.; Holt, Wainwright, Jr.; and Wilson, David G.,3,424,372.
Wilson, Davis Douglas; and Pappas, George Demo, to Fruehauf Corporation. Refuse body with side loader. 3,452,891, 7-1-69, Cl. 214-302.
Wilson, Dennis L.: *See—*
Fralick, Stanley C.; Knox-Seith, John K.; and Wilson, Dennis L.,3,484,746.
Wilson, Dennis L.; and Knight, Gordon R., to Sylvania Electric Products, Inc. Acoustic goniometer. 3,453,626, 7-1-69, Cl. 343-113.
Wilson, Dolores E. Sanitary napkin. 3,455,303, 7-15-69, Cl. 128-289.
Wilson, Donald J., to Erie Technological Products, Inc. Multiple output voltage multiplier. 3,467,849, 9-16-69, Cl. 321-15.
Wilson, Donald L.: *See—*
Binzoni, Emilio M.; Mersereau, Robert E.; and Wilson, Donald L.,3,473,799.
Wilson, Donald Richard, to Du Pont de Nemours, E. I., and Company. Polymerization of 1-azabicycloalkanes. 3,459,684, 8-5-69, Cl. 260-2.
Wilson, Donald S., to Rotron Manufacturing Company, Inc. Cooling arrangement for fan-motor combination. 3,449,605, 6-10-69, Cl. 310-58.
Henderson, Kenneth James; and Wilson, Donald,3,469,797.

Wildy, Peter Charles; and Wilson, Donald,3,434,358.
Wilson, Earl E. Car wash brushing apparatus. 3,434,172, 3-25-69, Cl. 15-21.
Wilson, Earl L.: *See—*
Glaeser, Melvin L.; and Wilson, Earl L.,3,483,669.
Dills, Reuben H.; and Wilson, Earl,3,486,684.
Wilson, Edgar R.: *See—*
Meyers, Robert A.; and Wilson, Edgar R.,3,429,859.
Wilson, Eldon M., to Garrett Corporation, The. Wind tunnel. 3,453,878, 7-8-69, Cl. 73-147.
Wilson, Ellis C., to Bucyrus-Erie Company. Excavator shovel apparatus. 3,465,903, 9-9-69, Cl. 214-138.
Wilson Engineering, Inc.: *See—*
Kelly, Gerald W., 3,427,860.
Wilson, Ernest B. Method and apparatus for depositing cement in a well. 3,461,960, 8-19-69, Cl. 166-168.
Wilson, Forrest Arthur, to Stull Chemical Company. Method and multi-phase composition for controlling pests. 3,479,176, 11-18-69, Cl. 71-94.
Wilson, Francis B.: *See—*
Brewer, Nathaniel; and Wilson, Francis B.,3,433,133.
Wilson, Fred A.; and Moore, Glenn E., to Dover Corporation. Breakable attaching means for a vent closure. 3,433,387, 3-18-69, Cl. 220-89.
Wilson, Fred A.: *See—*
Gottzmann, Christian E.; Halloran, James A.; and Wilson, Fred A.,3,456,595.
Wilson, Frederick George. Vehicle with fifth wheel and load lifting and carrying apparatus. 3,441,158, 4-29-69, Cl. 214-672.
Wilson, Geo. H., (Shilton) Limited: *See—*
Ward, Ivan Malcolm, 3,459,077.
Wilson, Geoffrey Charles: *See—*
Lowery, Christopher Haydn; and Wilson, Geoffrey Charles,3,427,181.
Wilson, Geoffrey L., to United States of America, Navy, mesne. Electro-mechanical directional transducer. 3,441,904, 4-29-69, Cl. 340-9.
Wilson, George A., to I-T-E Imperial Corporation. Dual mode circuit breaker withdrawal mechanism. 3,469,043, 9-23-69, Cl. 200-50.
Wilson, H. Forrester. Electric arc welding apparatus and method. 3,458,681, 7-29-69, Cl. 219-74.
Wilson, Harold Paul, to Vulcan Materials Company. Production of stannous fluoborate. 3,432,256, 3-11-69, Cl. 23-59.
Wilson, Harold W.Process for the preparation of 'single' and triple superphosphate fertilizers using alkylation spent acid sludges. 3,467,515, 9-16-69, Cl. 71-37.
Wilson, Harold W. Process for the treatment of alkylation refining sludges to recover sulfuric acid. 3,477,814, 11-11-69, Cl. 23-173.
Wilson, Harriet A. Hospital bed. 3,465,373, 9-9-69, Cl. 5-63.
Wilson, Harry R., to International Harvester Company. Method of neutralizing transmission and braking vehicle when shifting between forward and reverse. 3,437,184, 4-8-69, Cl. 192-4.
Wilson, Harry S.; Glasgow, David Gerald; and Salyer, Ival O., to Monsanto Research Corporation. Glass reinforced epoxy anhydride polymers. 3,481,822, 12-2-69, Cl. 161-93.
Wilson, Harry W. Means for producing an illustrated molded product. 3,427,688, 2-18-69, Cl. 18-36.
Wilson, Haydn, to Kent, George, Limited. Electrochemical gas measuring systems. 3,442,773, 5-6-69, Cl. 204-1.
Wilson, Henry L.; and Brunelle, Ronald D., to General Electric Company. Thin wall insulated wire. 3,484,540, 12-16-69, Cl. 174-120.
Wilson, Herbert Ridgely Day; and Moseley, Robin Christopher. Automatic system for operating parking lots and the like. 3,484,586, 12-16-69, Cl. 235-61.6
Wilson, Homer M.; and De La Torre, Leroy C., to Dresser Industries, Inc. Stabilized high temperature casing collar logging system utilizing the on-off ratio of a square wave as a signal transmitting means. 3,431,488, 3-4-69, Cl. 324-34.
Wilson, Homer M.; and Delatorre, Leroy C., to Dresser Industries, Inc., mesne. Stabilized power supply arrangement for well logging system. 3,465,239, 9-2-69, Cl. 324-1.
Wilson, Jack A. Caliper. 3,470,617, 10-7-69, Cl. 33-148.
Wilson, Jack O.: *See—*
Headd, Franklin L.; and Wilson, Jack O.,3,427,966.
Fischer, William G.; Norgord, John D.; and Wilson, Jack,3,455,606.
Wilson, James A. Line wiper. 3,468,549, 9-23-69, Cl. 277-59.
Wilson, James A.: *See—*
Wipff, Frank Pershing; and Wilson, James A.,3,425,648.
Wilson, James B. Golf ball feeding means. 3,458,204, 7-29-69, Cl. 273-201.
Wilson, James D., to Banner Metals, Inc. Receptacle. 3,428,204, 2-18-69, Cl. 220-4.
Wilson, James D., to Banner Metals, Inc. Bottle receptacle. 3,486,633, 12-30-69, Cl. 211-71.
Wilson, James H., to Lever Brothers Company. Germicidal compositions. 3,440,319, 4-22-69, Cl. 424-230.
Wilson, James H., to United States Steel Corporation. Continuous casting apparatus with means automatically controlling the holding vessel discharge. 3,457,985, 7-29-69, Cl. 164-155.
Wilson, James H., to United States Steel Corporation. Apparatus for controlling discharge of metal from a vacuum degassing chamber. 3,480,073, 11-25-69, Cl. 164-155.
Wilson, James H.: *See—*
Kolb, William A.; and Wilson, James H.,3,449,566.
Wilson, James W.: *See—*
Loev, Bernard; and Wilson, James W.,3,454,562.
Loev, Bernard; and Wilson, James W.,3,455,939.
Wilson, James W., to Smith Kline & French Laboratories. Cycloalk [C]isoquinolines. 3,454,578, 7-8-69, Cl. 260-286.
Wilson, James W. Passenger safety system for automobiles. 3,455,410, 7-15-69, Cl. 180-82.
Wilson, Jerry D., to General Electric Company. Electrical capacitor. 3,454,848, 7-8-69, Cl. 317-258.
Wilson, Jesse Allen, to Bastian-Blessing Co., The. Multi-purpose liquid transfer valve. 3,438,392, 4-15-69, Cl. 137-517.
Wilson, Jesse L. Grass edging and watering device. 3,485,449, 12-23-69, Cl. 239-201.
Wilson, John C., Jr.: *See—*
Kramer, Fritz; Wilson, John C., Jr.; and Krasinski, John,3,473,252.
Wilson, John Charles: *See—*
Fletcher, Archibald William; and Wilson, John Charles,3,466,168.
Wilson, John Francis; Goddard, John; and Glew, Derek Aubrey, to Rolls-Royce Limited. Method of electrochemically machining a workpiece incrementally using a plurality of electrodes dimensional progressively closer to the desired configuration. 3,459,645, 8-5-69, Cl. 204-143.
Wilson, John Hart. Submergible stabilizer for barges. 3,442,239, 5-6-69, Cl. 114-0.5
Wilson, John L. Photoelectric lighting control device utilizing translucent film with reflective areas. 3,424,914, 1-28-69, Cl. 250-219.
Wilson, John N.: *See—*
Goosey, Malcolm H.; Dexter, Arthur H.; Wilson, John N.; Leep, Richard W.; Hodder, Wayne K.; Brady, Edward R.; and Page, Lewis C.,3,459,925.
Gottschalk, Klaus; and Wilson, John,3,419,947.
Wilson Jones Company: *See—*
Stuertz, William D., 3,460,173.
Wilson, Joseph G.; Franzel, Harvey L.; and Markway, Leroy H., to Shell Oil Company. Tubular centrifugal separators. 3,443,368, 5-13-69, Cl. 55-435.
Wilson, Kenneth A.: *See—*
Krieger, Herbert B.; and Wilson, Kenneth A.,3,482,644.
Wilson, Kenneth R. A., to Irvin Industries Inc. High drag efficiency parachute canopy. 3,452,951, 7-1-69, Cl. 244-145.
Wilson, Kenneth R.; and Hill, Kenneth L., to FMC Corporation. M-ureidophenyl carbamates as herbicides. 3,434,822, 3-25-69, Cl. 71-106.
Wilson, Lee, Engineering Company: *See—*
Bearer, Gerald L., 3,420,082.
Bursk, Max H., 3,459,351.
Wilson, Lee, Engineering Company, Inc.: *See—*
Bearer, Gerald L., 3,467,367.
Beemer, Robert J., 3,455,520.
Espenschied, Edward P.; and Hill, Robert R., 3,446,491.
Wilson, Leslie F., to Nukor (Proprietary) Limited, mesne. Timber drying process and apparatus. 3,422,545, 1-21-69, Cl. 34-16.5
Wilson, Leslie P.: *See—*
Dobell, Curzon; and Wilson, Leslie P.,3,425,118.
Wilson, Loren R., to Magnavox Company, The. Data processing apparatus. 3,431,833, 3-11-69, Cl. 95-12.
Wilson, Lorenzo George: *See—*
Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George,3,450,543.
Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George,3,450,544.
Wilson, Louis; and Hogrefe, Arthur F., to United States of America, Navy. Battery charge controller utilizing coulometer. 3,421,067, 1-7-69, Cl. 320-14.
Wilson, Lucille E.: *See—*
Wilson, Porter C.; and Wilson, Lucille E.,3,430,829.
Wilson Manufacturing Corporation: *See—*
Koleske, Otto, 3,430,637.
Wilson, Martin: *See—*
Clark, Howard P.; Barnhill, Kenneth S., Jr.; and Wilson, Martin,3,446,443.
Wilson, Martin, to United States Borax & Chemical Corporation. Method and means for beneficiating ores. 3,424,310, 1-28-69, Cl. 209-166.
Wilson, Melvin G.: *See—*
Plummer, William B.; Van den Honert, Taco H.; and Wilson, Melvin G.,3,479,026.
Wilson, Merlin C. Air blower. 3,467,302, 9-16-69, Cl. 230-270.
Wilson, Minor E., to Wilson Seat Company. Sign holder for application to vehicle doors. 3,461,584, 8-19-69, Cl. 40-129.
Wilson, Mortimer D.; and Glass, William H., to Westinghouse Air Brake Company. Snap-acting pressure operated switch device with magnet control. 3,448,229, 6-3-69, Cl. 200-82.

Wilson, Nathan W., to Du Pont de Nemours, E. I., and Company. Web slitter. 3,467,333, 9-16-69, Cl. 242-56.2
Wilson, Nathaniel. Unattended fish hooker and catcher. 3,475,847, 11-4-69, Cl. 43-15.
Wilson, Newton R.; and Nave, Thomas J., to Phillips Petroleum Company. Blow molding parisons using fluid sealing. 3,479,420, 11-18-69, Cl. 264-89.
Wilson, Norman D.: *See—*
Gorbatenko, George G.; Jursik, James; Kimmel, Milton J.; Razi, Syed; and Wilson, Norman D.,3,460,131.
Wilson, O. C., Jr., 1/2 to Brown, Dwight M., and O'Hearn, Taylor W. Impact hammer crimping tool. 3,426,573, 2-11-69, Cl. 72-434.
Wilson, Oran W.; and Cronin, George R., to Texas Instruments, Incorporated. Epitaxial gallium arsenide. 3,471,324, 10-7-69, Cl. 117-201.
Wilson, Peter C., to United States of America, Interior. Longline auto-clip. 3,453,703, 7-8-69, Cl. 24-233.
Wilson, Peter C.: *See—*
Melin, Deering D.; and Wilson, Peter C.,3,443,932.
Wilson Pharmaceutical & Chemical Corporation: *See—*
Johnsen, Vernon L.; Matern, Eugene V.; and Burnett, Raymond S., 3,475,404.
Wilson, Porter C.; and Wilson, Lucille E. Apparel attached container. 3,430,829, 3-4-69, Cl. 224-5.
Wilson, Ransford B.; Nicholas, Robert D.; and Williams, Carl J., to Eastman Kodak Company. Silver dye bleach element containing ballasted para-quinone as diffusion inhibitor. 3,457,074, 7-22-69, Cl. 96-53.
Wilson, Raymond K., to American Telephone and Telegraph Company. Tool for adjusting relay contacts. 3,459,030, 8-5-69, Cl. 72-452.
Wilson, Raymond: *See—*
Mendelson, Emanuel S.; and Wilson, Raymond,3,469,651.
Wilson, Ray. Comb-mounted hair analysis gauge. 3,459,197, 8-5-69, Cl. 132-1.
Wilson, Rex C., to Muntz Stereo-Pak, Inc. Head shift alignment mechanism. 3,455,559, 7-15-69, Cl. 274-4.
Wilson, Richard D.: *See—*
Kuhn, Lee H., 3,470,888.
Wilson, Richard L., to Westinghouse Air Brake Company. Repeater relay valve device. 3,468,585, 9-23-69, Cl. 303-66.
Wilson, Richard R.: *See—*
Vaughan, Wayne W.; Wilson, Richard R.; Powell, Paul B., Jr.; and Henry, Lloyd S.,3,447,275.
Wilson, Richmond W., to Corning Glass Works. Method of forming tubing by surface pressure differential. 3,473,907, 10-21-69, Cl. 65-87.
Wilson, Robert A.: *See—*
Ford, Allen G.; and Wilson, Robert A.,3,483,839.
Wilson, Robert D. Glass cutting tool. 3,439,426, 4-22-69, Cl. 33-32.
Wilson, Robert G.; Brewer, George R.; and Jamba, Douglas M., to Hughes Aircraft Company. Surface ionization apparatus and electrode means for accelerating the ions in a curved path. 3,479,545, 11-18-69, Cl. 313-63.
Wilson, Robert G.; and Pharr, Mark R., Jr. Electronic oven. 3,480,753, 11-25-69, Cl. 219-10.55
Wilson, Robert K., to Dynasciences Corporation. Positive pressure flow cut-off respiration system. 3,486,502, 12-30-69, Cl. 128-146.5
Wilson, Robert M., to Dare Products, Incorporated. Fence wire mounting device. 3,456,067, 7-15-69, Cl. 174-161.
Wilson, Robert M., to Dare Products, Incorporated. Unitary spool assembly. 3,462,097, 8-19-69, Cl. 242-118.4
Wilson, Robert O., to General Dynamics Corporation. High pressure sealing structure. 3,462,041, 8-19-69, Cl. 220-46.
Wilson, Robert O.; and Lorenzino, Paul, Jr., to Halliburton Company. Electronic borehole casing collar locator. 3,434,046, 3-18-69, Cl. 324-34.
Wilson, Robert P. Earth mover vehicle separable into plural units. 3,466,771, 9-16-69, Cl. 37-126.
Wilson, Robert V., Jr.: *See—*
Smith, Charles M.; and Wilson, Robert V., Jr.,3,432,965.
Wilson, Robin Burnell: *See—*
Pyne, Humphrey Walter; Horwood, Bruce; and Wilson, Robin Burnell,3,439,477.
Wilson, Roger E., to United States of America, Navy. Methods for fiberizing encapsulated materials in glass. 3,486,867, 12-30-69, Cl. 65-2.
Wilson, Ronald M., to Wilson's, William M., Sons, Inc. Interlock for multiple totalizer metering apparatus. 3,422,676, 1-21-69, Cl. 73-194.
Wilson, Ronald, to Wanskuck Company. Feeding apparatus for tubes, rodes and the like. 3,434,610, 3-25-69, Cl. 214-339.
Wilson, Rosser L.; Frank, Earl E.; and Sperry, Edward C., to Abex Corporation. Switch stand. 3,449,562, 6-10-69, Cl. 246-411.
Wilson, Rosser L.; and Redelman, Paul E., to Abex Corporation. Switching apparatus. 3,483,368, 12-9-69, Cl. 246-393.
Wilson, Rosser L.: *See—*
Mc Cune, Robert B.; and Wilson, Rosser L.,3,480,773.
McCune, Robert B.; and Wilson, Rosser L.,3,483,367.
Wilson, Roy Edward: *See—*
Lanz, Donald Duane; and Wilson, Roy Edward,3,473,582.
Wilson Seat Company: *See—*
Wilson, Minor E., 3,461,584.
Wilson Shipyard Inc.: *See—*
Kock, Helmut, 3,466,725.
Wilson, Thomas C., Inc.: *See—*
Schott, Donald E., 3,426,565.
Wilson, Thomas H.; and Wilson, Woodrow A., said Wilson, W. A., assor. to said Wilson, T. H. Chart drive mechanism. 3,422,695, 1-21-69, Cl. 74-421.
Wilson, Volney C., to General Electric Company. Method and apparatus for the direct conversion of thermal to electrical energy. 3,482,120, 12-2-69, Cl. 310-4.
Wilson, Wayne D. Ultrasonic method for producing phase transitions in materials at high pressures. 3,423,794, 1-28-69, Cl. 18-16.5
Wilson, Wayne D.; and Hall, Hubert B. Synthesis of garnet at high pressures. 3,468,801, 9-23-69, Cl. 252-62.58
Wilson, Wayne D.; and Hall, Hubert B. Synthesis of beryl. 3,473,935, 10-21-69, Cl. 106-42.
Wilson, Wayne. Watercraft propulsion. 3,476,072, 11-4-69, Cl. 115-63.
Wilson, William B.: *See—*
Van der Veer, William R., 3,444,896.
Van der Veer, William R., 3,454,048.
Wilson, William David. Power-driven hydroplane watercraft. 3,452,698, 7-1-69, Cl. 114-66.5
Wilson, William E., Jr.: *See—*
Serfass, Earl J.; Martin, John E.; and Wilson, William E., Jr.,3,441,136.
Wilson, William E., to Kelvinator, Inc., mesne. Method of and device for fabricating Y-fittings. 3,452,576, 7-1-69, Cl. 72-318.
Golden, Raymond; Murzyn, Robert A.; and Wilson, William E.,3,476,945.
Wilson, William Gordon: *See—*
Stubbs, Dennis; Wilson, William Gordon; and Bathory, Bela Istvan,3,476,276.
Strickland, Alvah T.; and Wilson, William G.,3,425,434.
Wilson, William L., to PPG Industries, Inc. Process for preparing pigmentary titanium dioxide. 3,434,799, 3-25-69, Cl. 23-202.
Wilson, William L., to PPG Industries, Inc. Method for uniform distribution of gases in an annulus and apparatus therefor. 3,469,943, 9-30-69, Cl. 23-202.
Wilson, William L., to PPG Industries, Inc. Process for preparing improved titanium dioxide. 3,485,583, 12-23-69, Cl. 23-202.
Wilson, William L.; Lott, Harry, Jr.; and Dietz, Albert, to PPG Industries Inc. Process for preparing pigmentary titanium dioxide. 3,433,594, 3-18-69, Cl. 23-202.
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H., to PPG Industries, Inc. Process for preparing pigmentary metal oxide. 3,443,897, 5-13-69, Cl. 23-202.
Wilson, William L.; Strain, Franklin; and Hoekje, Howard H., to PPG Industries, Inc. Method of preparing metal oxides. 3,475,123, 10-28-69, Cl. 23-202.
Wilson, William O., to United States of America, National Aeronautics and Space Administration. Rocket chamber leak test fixture. 3,433,079, 3-18-69, Cl. 73-49.8
Wilson, William S. Welding tips. 3,444,353, 5-13-69, Cl. 219-136.
Wilson, Woodrow A.: *See—*
Wilson, Thomas H.; and Wilson, Woodrow A.,3,422,695.
Wilson, Woodrow S., to Polytop Corporation. Dispensing closures. 3,430,825, 3-4-69, Cl. 222-534.
Wilson's, William M., Sons, Inc.:*See—*
Wilson, Ronald M., 3,422,676.
Wilstead, Graham H.: *See—*
Nash, John E.; Medenblik, Henri J.; Thomas, Lyndon A.; and Wilstead, Graham H.,3,438,201.
Wilt, Chester C.: *See—*
Snow, Richard W.; and Wilt, Chester C.,3,477,926.
Wilterink, Dale P., to Sackner Products, Inc. Welting cord. 3,446,004, 5-27-69, Cl. 57-149.
Wilton, Peter: *See—*
Lahm, William J.; Wilton, Peter; and Egan, Walter,3,423,274.
Wilton, Ronald William: *See—*
Hadley, William Henry; and Wilton, Ronald William,3,455,479.
Wiltrout, Dale E.: *See—*
Stout, Orin C.; and Wiltrout, Dale E.,3,474,033.
Wiltshire, Arthur J., to Structural Fibers, Inc. Floating diaphragm. 3,424,335, 1-28-69, Cl. 220-26.
Wiltshire, Arthur J., to Structural Fibers, Inc. Method for making impregnated fiber articles. 3,442,998, 5-6-69, Cl. 264-120.
Wiltshire, Arthur J., to Structural Fibers, Inc. Method of making a hollow, fiber-reinforced plastic pressure vessel. 3,449,182, 6-10-69, Cl. 156-69.
Wiltshire, James Phillip: *See—*
Shaw, Richard Elliott; and Wiltshire, James Phillip,3,420,762.
Wily, John L.: *See—*
Kaufmann, Robert H.; Richard, Donald; and Wily, John L.,3,425,315.

Wimberley, Jerry W., to Continental Oil Company. Method for separating paraffin hydrocarbons from haloparaffin hydrocarbons. 3,465,502, 9r9-69, Cl. 55-67.
Wimbledon Organization Ltd.: *See—*
Saltiel, Joseph Pepo, 3,482,743.
Wimer, William E.; Bowers, Bobby O.; and Neikirk, Gerald R., to PPG Industries, Inc. Purification of perchloroethylene by prolonged contact with ammonia. 3,423,477, 1-21-69, Cl. 260-654.
Wimmer, Hans: *See—*
Fritzweiler, Rupprecht; Heckmaier, Joseph; Gerstner, Ferdinand; Wimmer, Hans; and Winkler, Heinz,3,471,131.
Wimperis, Jeffery R.: *See—*
Herriott, Donald R.; Perry, Darwin L.; and Wimperis, Jeffery R.,3,466,120.
Wimpey, George, & Company Limited: *See—*
Rendall, Ian, 3,431,987.
Wimpfheimer, A., & Bro., Inc.: *See—*
Eakins, William J.; and Wimpfheimer, A., & Bro., Inc.,3,451,886.
Wimpress, John K.: *See—*
Seglem, Henry M.; and Wimpress, John K.,3,486,720.
Winans, Linnaeus. Motor oil filter wrench assembly. 3,465,622, 9-9-69, Cl. 81-64.
Winans, William J. Apparatus for vibratorily feeding and orienting parts. 3,447,660, 6-3-69, Cl. 198-33.
Winberg, Ragnar W. Material stitching and guiding apparatus. 3,434,439, 3-25-69, Cl. 112-2.
Wince, Vearl S., to Holophane Company, Inc. Luminaire lens. 3,483,366, 12-9-69, Cl. 240-106.
Wince, Vearl S.; and Odle, Herbert A., to Holophane Company, Inc. Luminaire. 3,448,260, 6-3-69, Cl. 240-93.
Winch, Allen R.: *See—*
Porter, Stephen L.; Auville, Calvin; and Winch, Allen R.,3,430,465.
Winchell, Frank J.: *See—*
Hall, James E.; Mrlik, Jerry R.; Musser, James G.; and Winchell, Frank J.,3,455,594.
Winchell, Frank J.; and Mrlik, Jerry R., to General Motors Corporation. Power train with engine and torque converter. 3,425,215, 2-4-69, Cl. 60-12.
Wincheski, Joseph J. Clubfoot splint. 3,477,426, 11-11-69, Cl. 128-80.
Winchester, Charles M.; Faccone, Joseph A.; and Webb, Stephen F., to Interchemical Corporation. Wood substrate coated with a blend of polyacetal and amine-aldehyde resin. 3,476,591, 11-4-69, Cl. 117-148.
Winchester, Don B.: *See—*
Batson, William A.; and Winchester, Don B.,3,462,623.
Winchester, Don D.; and Batson, William A., to Singer Company, The. Trigger actuated motor speed control and switching device having multiple selective positions for setting motor speeds. 3,439,248, 4-15-69, Cl. 318-331.
Winchester, Raymond E., Jr., to Monsanto Company. Apparatus for manufacturing thermoplastic articles. 3,457,592, 7-29-69, Cl. 18-5.
Winchester, Raymond E., Jr.: *See—*
Mason, Robert B.; Winchester, Raymond E., Jr.; and Strauss, Robert G.,3,420,926.
Windahl, Everett R., to Northwest Engineering Corporation. Dipper actuator for pullshovels. 3,485,395, 12-23-69, Cl. 214-138.
Windecker, Leo J., to Dow Chemical Company, The. Mold and method for the preparation thereof. 3,427,689, 2-18-69, Cl. 18-47.
Windecker, Leo J., to Dow Chemical Company, The. Shaping apparatus. 3,448,546, 6-10-69, Cl. 51-80.
Windecker, Leo J., to Dow Chemical Company, The. Foam plastic float and method for the preparation thereof. 3,467,345, 9-16-69, Cl. 244-105.
Windel, Hermann; and Pommer, Ernst-Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Ammonia complex of the zinc salt of ethylene bis- dithiocarbamic acid. 3,441,581, 4-29-69, Cl. 260-429.9
Windeler, Alfred S., to Bell Telephone Laboratories, Incorporated. Coaxial cable manufacturing method. 3,436,287, 4-1-69, Cl. 156-54.
Windeler, Christopher L.; and Singalewitch, Joseph D., to Allied Chemical Corporation. Ram extrusion of granular resins. 3,483,597, 12-16-69, Cl. 18-12.
Windemuth, Erwin: *See—*
Grogler, Gerhard; and Windemuth, Erwin,3,450,676.
Hennig, Hans Joachim; Windemuth, Erwin; and Zankl, Erich,3,437,500.
Windemuth, Erwin; and Brochhagen, Franzkarl, to Farbenfabriken Bayer Aktiengesellschaft. Process of producing cellular polyurethanes employing tertiary amines and certain organic metallic compounds as catalyst system. 3,450,648, 6-17-69, Cl. 260-2.5
Winder, James W., to Sun Oil Company. Alarm systems. 3,453,499, 7-1-69, Cl. 317-113.
Winder, Robert O., to Radio Corporation of America. Ring counters employing threshold gates. 3,434,058, 3-18-69, Cl. 328-43.
Winder, Robert O., to Radio Corporation of America. Parity circuits employing threshold gates. 3,439,328, 4-15-69, Cl. 340-146.1
Winder, Robert O., to RCA Corporation. Threshold gates and circuits. 3,487,316, 12-30-69, Cl. 328-92.
Winderl, Siegfried: *See—*
Adam, Karl; Schulz, Alfred; Haarer, Erich; and Winderl, Siegfried,3,476,793.
Winders, Robert F. Mechanism for delivering wire from coils thereof. 3,436,031, 4-1-69, Cl. 242-54.
Windgassen, Richard J.: *See—*
Smith, Curtis W.; Schrauzer, Gerhard N.; Windgassen, Richard J.; and Koetitz, Kenneth F.,3,463,819.
Windham, James H., Jr. Clothes and luggage carrier for vehicles. 3,476,433, 11-4-69, Cl. 296-24.
Windholz, Thomas B.: *See—*
Johnston, David B. R.; Patchett, Arthur A.; and Windholz, Thomas B.,3,487,076.
Winding, Charles C.: *See—*
Wald, Stephen A.; and Winding, Charles C.,3,477,274.
Windings, Inc.: *See—*
Gordon, William F., 3,486,714.
Windle, Raymond: *See—*
Bennett, George Arthur; Berrie, Alistair Howard; and Windle, Raymond,3,421,829.
Windle, William, Jr.: *See—*
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr.,3,440,939.
Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr.,3,473,456.
Peterson, Dean M.; Windle, William, Jr.; and Pickering, Charles E.,3,439,596.
Clark, Norman Owen; and Windle, William,3,484,279.
Malden, Peter James; and Windle, William,3,482,685.
Windley, William Thomas, du Pont de Nemours, E. I., and Company. Break detector and shut down means. 3,429,491, 2-25-69, Cl. 226-11.
Windmiller, Harvey L.: *See—*
Henry, Frank B.; and Windmiller, Harvey L.,3,477,708.
Windmoller & Holscher: *See—*
Achelpohl, Fritz, 3,466,980.
Brinkmeier, Friedhelm; and Aulmann, Dietrich, 3,432,982.
Brinkmeier, Friedhelm, 3,439,470.
Brinkmeier, Friedhelm; Fiks, Gerhard; and Rochla, Kurt, 3,461,021.
Brockmuller, Friedrich Franz, 3,441,199.
Brockmuller, Friedrich Franz, 3,468,251.
Brockmuller, Friedrich Franz, 3,472,130.
Kappelhoff, Hermann; Gunnerich, Max Georg; Paul, Walter; Steinbeck, Walter; and Niemeyer, Willy, 3,448,666.
Niemeyer, Willy, 3,455,768.
Schneider, Horst, 3,459,950.
Schwarzkopf, August, 3,439,848.
Schwarzkopf, August, 3,440,124.
Schwarzkopf, August, 3,448,915.
Stork, Willi, 3,469,506.
Windsor, Charles A., to Michigan Oven Company. Fluid pressure sealing system for processing oven. 3,448,969, 6-10-69, Cl. 263-3.
Windsor, Meredith M.: *See—*
Johnston, Glenn E.; and Windsor, Meredith M.,3,441,705.
Windsor Nuclear, Inc.: *See—*
Chapel, Annette M., 3,481,462.
Wine, Charles M.; and Miller, James C., to RCA Corporation. Semipermanent memory. 3,462,747, 8-19-69, Cl. 340-174.
Wine, Charles M.: *See—*
Miller, James C.; and Wine, Charles M.,3,439,317.
Miller, James C.; and Wine, Charles M.,3,466,625.
Schilling, Ronald B.; and Wine, Charles M.,3,465,292.
Winebarger, Vaughn H. Sanding platen. 3,429,079, 2-25-69, Cl. 51-141.
Winegard Company, The: *See—*
Winegard, John R., 3,454,905.
Winegard, John R., 3,475,759.
Winegard, John R., to Winegard Company, The. Electrical line-splitter device. 3,454,905, 7-8-69, Cl. 333-8.
Winegard, John R., to Winegard Company, The. Television antenna with built-in cartridge preamplifier. 3,475,759, 10-28-69, Cl. 343-815.
Winegardner, Donald E., to Majestic Company, Inc., The. Ash pan drawer. 3,421,495, 1-14-69, Cl. 126-143.
Winegardner, Donald E., to Majestic Company, Inc., The. Forced draft vent assembly. 3,431,056, 3-4-69, Cl. 431-20.
Wineland, William H., to Dow Chemical Company, The. Glass reinforced non-vulcanized flashing materials based on vinylidene chloride- acrylonitrile copolymers. 3,476,639, 11-4-69, Cl. 161-151.
Wineman, Robert J.: *See—*
James, John C.; Wineman, Robert J.; and Gollis, Morton H.,3,462,429.
James, John C.; Wineman, Robert J.; Gollis, Morton H., deceased; and Gollis, Bernard; administratrix,3,454,627.
Winer, Allen. Process for filling external structural voids in submarines and the resulting article. 3,437,549, 4-8-69, Cl. 161-43.

Winer, Bernard B.; and Keady, Richard J., to Westinghouse Electric Corporation. Fusible means for rotating electrical device. 3,467,935, 9-16-69, Cl. 337-229.
Winer, Irvin M.: *See—*
Soffer, Bernard H.; and Winer, Irvin M.,3,483,747.
Winer, Irving G.: *See—*
Turnbull, Hugh G.; and Winer, Irving G.,3,457,817.
Winer, Richard, to United States of America, Army. Stick smokeless powder manufacture by extrusion. 3,456,042, 7-15-69, Cl. 264-3.
Winfield Brooks Company, Inc.: *See—*
Perry, Kenneth E., 3,468,804.
Winfield, Frederick S. Liquid strainer. 3,486,625, 12-30-69, Cl. 210-232.
Winfrey, Alvon R., to Continental Oil Company. Sealing device between rotating and nonrotating members. 3,472,522, 10-14-69, Cl. 277-41.
Wing, Albert L. Fixture device. 3,425,681, 2-4-69, Cl. 269-182.
Wing, Donald V.: *See—*
Stafford, Owen L.; Wing, Donald V.; and Stolsmark, Duane E.,3,442,981.
Wing, George S., to Hi-Shear Corporation. Inherently torque-limited fastener. 3,434,379, 3-25-69, Cl. 85-61.
Wing, George S., to Hi-Shear Corporation. Inherently torque-limited fastener. 3,449,998, 6-17-69, Cl. 85-61.
Wing, Willis G., to Sperry Rand Corporation. Compensation apparatus for inertial devices. 3,430,501, 3-4-69, Cl. 74-5.6
Wing, Willis G., to Sperry Rand Corporation. Rotary transformer for transmitting electrical signals. 3,439,556, 4-22-69, Cl. 74-5.6
Wing, Willis G., to Sperry Rand Corporation. Gyroscopic apparatus utilizing integral modulator device. 3,444,745, 5-20-69, Cl. 74-5.6
Wingard, Henry S., to Federal Pacific Electric Company. Circuit interrupters with improved arc chutes. 3,441,697, 4-29-69, Cl. 200-144.
Wingard Limited: *See—*
Barlow, Thomas V., 3,439,388.
Church, Robert Stanley, 3,463,576.
Winger Enterprises, Inc.: *See—*
Perkins, Bernard C., 3,421,494.
Winger, James H.: *See—*
Allman, William T., Jr.; Winger, James H.; and Burn, William A., Jr.,3,452,412.
Wingerson, Richard C. Sputtering protection for tantalum cathodes in plasma devices. 3,452,237, 6-24-69, Cl. 313-211.
Winget Limited: *See—*
Brown, David J. B., 3,430,778.
Brown, David J. B., 3,469,647.
Brown, David John Bowes, 3,469,724.
Wingfield, Edward C.: *See—*
Erf, Robert K.; Wingfield, Edward C.; and Aas, Herbert G.,3,480,368.
Graham, Richard H.; and Wingfield, Edward C.,3,426,174.
Wingler, William C., to General Electric Company. Alarm control mechanism. 3,460,342, 8-12-69, Cl. 58-22.7
Wingler, William C., to General Electric Company. Alarm control mechanism. 3,475,900, 11-4-69, Cl. 58-21.155
Wingo, Dale T.: *See—*
Reed, Bruce S.; and Wingo, Dale T.,3,436,606.
Wingquist, Sten Gunnar, to Nydqvist & Holm Aktiebolag. Screw. 3,466,964, 9-16-69, Cl. 85-1.
Wingrove, Robert C.: *See—*
Schwartz, Seymour I.; Wingrove, Robert C.; and Anderson, James A.,3,421,511.
Winig, Norbert, to Winig Slipper Corporation. Sole gauge and cementing device. 3,421,166, 1-14-69, Cl. 12-33.6
Winig Slipper Corporation: *See—*
Winig, Norbert, 3,421,166.
Winik, Leon; and Doundoulakis, George, 15% to Nolte, Albert C., Jr., mesne. T.V. pickup and projection system with camera having fiber optic hemispherical lens. 3,469,026, 9-23-69, Cl. 178-6.8
Winings, Richard H., to Western Electric Company, Incorporated. Methods and apparatus for treating semi-conductive materials with gases. 3,424,628, 1-28-69, Cl. 148-175.
Winings, Richard H., to Western Electric Company, Incorporated. Apparatus for polishing. 3,437,543, 4-8-69, Cl. 156-345.
Winkel, Jan; and van der Lely, Cornelis, van der Lely, C., N.V. Implements for the lateral displacement of crop lying on the ground. 3,466,860, 9-16-69, Cl. 56-377.
Winkelmann, Erhardt; and Wagner, Wolf-Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Bis-thiosemicarbazones. 3,478,036, 11-11-69, Cl. 260-293.4
Winkelmann, Erhardt; and Wagner, Wolf-Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Unsymmetrical bis-thiosemicarbazones. 3,483,207, 12-9-69, Cl. 260-293.4
Winkelmann, John F.: *See—*
Staats, Henry N.; and Winkelmann, John F.,3,433,688.
Staats, Henry N.; Vincent, Donald P.; and Winkelmann, John F.,3,427,914.
Winkelmann, Otto J.; and Sarto, Jorm O., to Chrysler Corporation. Rotary mechanism. 3,447,512, 6-3-69, Cl. 123-8.
Winkler & Dunnebier Maschinenfabrik und Eisengiesserei K.G.: *See—*
Greiner, Rolf, 3,450,095.
Stemmler, Kurt, 3,448,977.
Subklew, Hermann, 3,429,237.
Winkler, Richard; and Dunnebier, Kurt, 3,431,842.
Winkler, Richard; and Dunnebier, Kurt, 3,460,444.
Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Camera. 3,421,422, 1-14-69, Cl. 95-11.
Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Motion picture camera or projector for film with sound track. 3,442,580, 5-6-69, Cl. 352-29.
Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Camera with flash unit. 3,447,435, 6-3-69, Cl. 95-11.5
Winkler, Alfred; Bammesberger, Karl; and Ernst, Heinz, to Agfa-Gevaert Aktiengesellschaft. Camera with automatic film threading device. 3,463,071, 8-26-69, Cl. 95-31.
Winkler, Alfred; and Denk, Richard, to Agfa-Gevaert Aktiengesellschaft. Movie camera. 3,469,906, 9-30-69, Cl. 352-72.
Winkler, Alfred; and Ernst, Heinz, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with autoetic film threading means. 3,479,938, 11-25-69, Cl. 95-11.
Winkler, Alfred; Winkler, Friedrich; Theer, Anton; and Thate, Kurt, to Agfa-Gevaert Aktiengesellschaft. Motion picture camera. 3,477,778, 11-11-69, Cl. 352-242.
Winkler, Alfred: *See—*
Engelsmann, Dieter; Von Wasielewski, Erwin; and Winkler, Alfred,3,470,799.
Kremp, Rudolf; Wagner, Karl; Engelsmann, Dieter; and Winkler, Alfred,3,463,069.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Freidrich; Kiper, Gerd; Pawlik, Guenter; von Sybel, Reinhard; and von Wasielewski, Erwin,3,426,661.
Wick, Richard; Biedermann, Friedrich; Winkler, Alfred; Bestenreiner, Friedrich; Kiper, Gerd; Pawlik, Gunter; Von Sybel, Reinhard; Von Wasiliewski, Erwin; and Wagner, Karl,3,465,656.
Wick, Richard; Engelsmann, Dieter; and Winkler, Alfred,3,447,433.
Winkler, David W., Jr., to General Dynamics Corporation. Plastic box having snap cover with seal. 3,477,609, 11-11-69, Cl. 220-60.
Winkler, De Loss E.; and Shaw, Alfred W., to Shell Oil Company. Selectively hydrochlorinated block copolymers. 3,452,118, 6-24-69, Cl. 260-879.
Winkler, Deloss E.; Hayter, Roy G.; and Stubbs, William H., to Shell Oil Company. Method of polymerizing isoprene with Ziegler type catalyst. 3,455,891, 7-15-69, Cl. 260-94.3
Winkler, Dieter: *See—*
Maatsch, Jurgen; and Winkler, Dieter,3,485,619.
Winkler, Edwin, to FMC Corporation. Extendible conveyor. 3,434,584, 3-25-69, Cl. 198-89.
Winkler, Franz, to Siemens Aktiengesellschaft. Water moderated and cooled nuclear reactor power plant. 3,467,577, 9-16-69, Cl. 176-55.
Winkler, Franz; Knodler, Dietheim; and Huber, Gerald, to Siemens Aktiengesellschaft. Supercritical heterogeneous nuclear reactor of the pressure vessel type. 3,453,178, 7-1-69, Cl. 176-54.
Winkler, Friedrich: *See—*
Winkler, Alfred; Winkler, Friedrich; Theer, Anton; and Thate, Kurt,3,477,778.
Winkler, Fritz; Pohl, Franz; Stark, Hermann; Kesseler, Helmut; and Grundmann, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Laminated safety glass and process for making same. 3,424,646, 1-28-69, Cl. 161-199.
Winkler, Gerhard, to North American Philips Company, Inc. Ferrigmatic material suitable for use at frequencies of at least 50Mc./Sec with improved properties. 3,438,900, 4-15-69, Cl. 252-62.6
Winkler, Gerhard, to U.S. Philips Corporation, mesne. Ferrimagnetic material for use at frequencies higher than 50mc./sec. having reduced loss factor and higher quality factor. 3,461,072, 8-12-69, Cl. 252-62.59
Winkler, Gunnar: *See—*
Garney, Karl; and Winkler, Gunnar,3,424,885.
Winkler, Hans-Joachim. Step-up gear dynamometer brake unit. 3,448,832, 6-10-69, Cl. 188-90.
Winkler, Hans: *See—*
Renz, Jany; Bourquin, Jean Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,464,977.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; and Schwarb, Gustav,3,474,099.
Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav,3,478,022.
Winkler, Heinz: *See—*
Fritzweiler, Rupprecht; Heckmaier, Joseph; Gerstner, Ferdinand; Wimmer, Hans; and Winkler, Heinz,3,471,131.
Winkler, Joseph, to Tenneco Chemicals, Inc., mesne. Polyurethane base products and processes. 3,460,921, 8-12-69, Cl. 44-7.

Winkler, Joseph, to Tenneco Chemicals, Inc., mesne. Method of producing gelled hydrocarbons employing polyurethanes. 3,460,922, 8-12-69, Cl. 44-7.
Winkler, Julius G., to Compo Shoe Machinery Corporation. Method of injection molding footwear. 3,463,849, 8-26-69, Cl. 264-244.
Winkler, Julius G.: *See*—
London, Alvin B.; and Winkler, Julius G.,3,474,477.
Winkler, Klaus, to Siemens Aktiengesellschaft. Magnetically decoupled magnetic read-write transducer assembly. 3,432,838, 3-11-69, Cl. 340-174.1
Winkler, Kurt; and Wunsch, Alfred, to Aktiengesellschaft Brown, Boveri & Cie. Aerodynamic pressure wave machine. 3,458,116, 7-29-69, Cl. 230-69.
Winkler, Otto; Reisinger, Helmut; and Ruhe, Jochen, to Balzers Patent- und Lizenz-Anstalt. Process of and apparatus for the desorption of extraneous molecules. 3,457,655, 7-29-69, Cl. 34-15.
Winkler, Richard: *See*—
Neunkirchen, Max, 3,435,739.
Winkler, Richard, and Dunnebier, d/b/a Winkler & Dunnebier: *See*—
Puderbach, Gerhard, 3,429,466.
Winkler, Richard; and Dunnebier, Kurt, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei KG. Wetting mechanism for offset printing machines. 3,431,842, 3-11-69, Cl. 101-142.
Winkler, Richard; and Dunnebier, Kurt, to Winkler & Dunnebier Maschinenfabrik and Eisengiesserei K.G. Machine for manufacturing envelopes, flat bags and the like. 3,460,444, 8-12-69, Cl. 93-62.
Winkler, William K., to General Electric Company. Supporting means for shutter of oven door window. 3,439,669, 4-22-69, Cl. 126-200.
Winkler, Winfried: *See*—
Meseke, Curt Th.; and Winkler, Winfried,3,430,754.
Winkler-Atlas Manufacturing Limited: *See*—
Beuker, Martinus, 3,440,975.
Winkless, Robert A.: *See*—
Buck, James G.; Winkless, Robert A.; and Gerber, Howard L.,3,450,856.
Winkowski, Daniel A., to National Gypsum Company. Gypsum wallboard, wallboard construction method and structure. 3,469,361, 9-30-69, Cl. 52-416.
Winks, Fred H.; and Wanser, Henry G. Self-adjusting track circuits. 3,432,653, 3-11-69, Cl. 246-34.
Winn Engineering Company: *See*—
Trumbo, Cecil Dale, 3,477,363.
Winn, James B., Jr., to Archilithic Co., The. Dispensing gun for fiber rovings and cementitious materials. 3,478,963, 11-18-69, Cl. 239-102.
Winn, John, to Westronics, Inc., mesne. Racing game with gear drive mechanism. 3,441,277, 4-29-69, Cl. 273-86.
Winn, Richard, to Imperial Chemical Industries Limited. Apparatus for utilizing a webbed stirrer for continuous mixing. 3,434,804, 3-25-69, Cl. 23-285.
Winn, Roger F. E., to Elliott Brothers (London) Limited. Frequency-to-voltage converter with temperature compensating diode. 3,473,048, 10-14-69, Cl. 307-233.
Winnebago Industries, Inc.: *See*—
Nerem, Marvin E., 3,440,790.
Winnegrad, Ronald Ross: *See*—
Cahn, Arno; Winnegrad, Ronald Ross; and Gilbert, Allan H.,3,455,957.
Winnemann, Carl W.: *See*—
Milhaupt, Howard A.; and Henning, Donald S., 3,438,702.
Winnemann, Carl W. Transparency projection accessory. 3,438,703, 4-15-69, Cl. 353-120.
Winner, Forney D.: *See*—
Niebel, Benjamin W.; Stover, Richard N.; and Winner, Forney D.,3,472,231.
Winnett, Ronald. Ventilating apparatus. 3,472,148, 10-14-69, Cl. 98-33.
Winnick, Charles N., to Halcon International, Inc. Preparation of glycols and glycol ethers. 3,475,499, 10-28-69, Cl. 260-615.
Winnick, Charles N.; and Naglieri, Anthony N., to Halcon International, Inc. Ammoxidation catalyst. 3,475,350, 10-28-69, Cl. 252-464.
Winnick, Charles N.; and Ochlossman, Irwin, to Halcon International, Inc. Hydrocarbon oxidation with inert gas blanketing of aqueous boric acid hydrolysis stream. 3,456,021, 7-15-69, Cl. 260-631.
Winnick, Charles N.: *See*—
Naglieri, Anthony N.; and Winnick, Charles N.,3,449,326.
Russell, Joseph L.; and Winnick, Charles N.,3,458,534.
Winniett, George. Steam sterilizing and heating device. 3,424,547, 1-28-69, Cl. 21-92.
Winningstad, Chester N., to Tektronix, Inc. Method of write-through operation of direct viewing bistable storage tube to produce non-stored image of high brightness during shortage of another image. 3,430,093, 2-25-69, Cl. 315-10.
Winogrocki, Ray F.; Brzozowski, Stephen, Jr.; and McClure, Gerald L., to Essex International, Inc. Vehicle direction signaling apparatus with abutment means releasably arresting the apparatus in an intermediate position. 3,459,909, 8-5-69, Cl. 200-61.34
Winpower Manufacturing Company: *See*—
Van Peursem, Marvin D., 3,454,285.
Winrow, Donald, to Ferranti-Packard Limited, mesne. Magnetically operated display device having display elements in liquid suspension. 3,444,551, 5-13-69, Cl. 340-378.
Winrow, Donald; Longenecker, Bruce Cameron; and Reynolds, Charles Edward, to Ferranti-Packard Limited, mesne AMP Incorporated. Rotating magnetically actuated display or indicator Signalling system. 3,469,258, 9-23-69, Cl. 340-380.
Winsel, August: *See*—
Justi, Eduard; and Winsel, August,3,428,491.
Justi, Eduard; and Winsel, August,3,455,804.
Winsel, August, to Siemens Aktiengesellschaft, and Varta Aktiengesellschaft. Catalyst body and gas diffusion electrode and fuel cell therewith. 3,481,789, 12-2-69, Cl. 136-86.
Winsel, August, 1/2 to Varta Aktiengesellschaft, and Siemens Aktiengesellschaft. Electrical power system for a load in a remote area. 3,484,617, 12-16-69, Cl. 290-44.
Winsen, Felix R. Traction increasing device. 3,458,236, 7-29-69, Cl. 301-47.
Winsett, Donald L., to Marathon Oil Company. Manufacture of coke and low CTE graphite from petroleum derived feed materials. 3,460,907, 8-12-69, Cl. 23-209.1
Winship, Foryst J.: *See*—
Silverwood, Philip J.; and Winship, Foryst J.,3,436,728.
Winslow, Charles A. Multiple filter element fluid purifying system. 3,473,663, 10-21-69, Cl. 210-120.
Winslow, Donald K.; Shaw, Herbert J.; and Quate, Calvin F., to United States of America, Air Force. Thin film piezoelectric transducer. 3,465,177, 9-2-69, Cl. 310-8.0
Winslow, Donald K.: *See*—
Karp, Arthur; Winslow, Donald K.; and Shaw, Herbert J.,3,475,642.
Winslow, James Carl, to Omark-Winslow Aerospace Tool Co. Screw thread lock. 3,464,473, 9-2-69, Cl. 151-7.
Winslow, John S.: *See*—
Kazan, Benjamin; and Winslow, John S.,3,441,736.
Winslow, Joseph D., Jr.; and Lucas, Roy N., to Petrolite Corporation. Energization of electric emulsion treaters. 3,446,724, 5-27-69, Cl. 204-191.
Winslow, Joseph R., to Bliss, E. W., Company. Method and apparatus for generating fire-fighting foam. 3,428,131, 2-18-69, Cl. 169-15.
Winslow, Kenelm W.: *See*—
Chandler, Edmond A.; and Winslow, Kenelm W.,3,483,581.
Winslow, Lester M., to Varian Associates. Circuit support for microwave tubes employing shaped dielectric supports rods to capture a ductile material at the support joints. 3,421,040, 1-7-69, Cl. 315-3.5
Winslow, Nathaniel M., to Prado Laboratories, Inc. Device for measurement of pore size and pore volume. 3,438,245, 4-15-69, Cl. 73-38.
Winslow-Tele-Tronics, Inc.: *See*—
Tanzman, Herbert D., 3,447,370.
Winsor, Edward J.: *See*—
Kilpert, Richard; Winsor, Edward J.; and Bauer, Richard H.,3,425,455.
Winsor, Frederick J.; and Resko, Stephen J., to Foster Wheeler Corporation. Method of and apparatus for arc welding tubular members to form an integral panel. 3,439,147, 4-15-69, Cl. 219-125.
Winsor, Jack O.: *See*—
Bechan, William H.; and Winsor, Jack O.,3,448,576.
Winsor, John: *See*—
Carruthers, John; and Winsor, John,3,484,496.
Winsor, John, to British Petroleum Company Limited, The. Process for the hydrogenation of benzene. 3,484,367, 12-16-69, Cl. 208-244.
Winsor, John; and Carruthers, John, to British Petroleum Company Limited, The. Operation of reactor systems. 3,484,501, 12-16-69, Cl. 260-674.
Winstanley, John Eric. Colored light apparatus. 3,425,146, 2-4-69, Cl. 40-132.
Winstead, Thoas W. Apparatus for extruding a skin covered, foamed thermoplastic. 3,461,496, 8-19-69, Cl. 18-12.
Winstead, Thomas W. Continuous method and apparatus for manufacturing articles from foamed thermoplastic material. 3,479,694, 11-25-69, Cl. 18-19.
Winstel, Gunter; Dathe, Joachim; and Zschauer, Karl Heinz, to Siemens Aktiengesellschaft. Coated mesa transistor structures for improved voltage characteristics. 3,463,681, 8-26-69, Cl. 148-187.
Winstel, Gunter; Mettler, Klaus; Zschauer, Karl-Heinz; and Pelka, Horst, to Siemens Aktiengesellschaft. Optical-electronic semiconductor unitary device comprising light transmitter, light receiver, and connecting light conductor of chromium doped gallium arsenide. 3,478,215, 11-11-69, Cl. 250-211.

Winston, Charles R., to Teletype Corporation. Character generation logic. 3,432,844, 3-11-69, Cl. 340-324.
Winston, Charles R., to Teletype Corporation. Fluid transfer device. 3,484,794, 12-16-69, Cl. 346-75.
Winston, Emanuel A. Telephone lock. 3,469,041, 9-23-69, Cl. 179-189.
Winston, Emanuel A., to Glass, Marvin, & Associates. Kinesthetic identification game apparatus. 3,484,105, 12-16-69, Cl. 273-1.
Winston, Eric, to Jerrold Electronics Corporation. Coupler housing with integral cable receptacles. 3,440,329, 4-22-69, Cl. 174-52.
Winston, Eric, to Jerrold Electronics Corporation. Ground bushing. 3,462,539, 8-19-69, Cl. 174-65.
Winston, Eric; and Mazerka, John T., to Jerrold Electronics Corporation. Quick opening latch and clamp. 3,468,577, 9-23-69, Cl. 292-256.75
Winston, Eric; and Qurashi, Maqbool, to Jerrold Electronics Corporation. Electrical circuit board retainer. 3,479,633, 11-18-69, Cl. 339-14.
Winston, Eric; and Qurashi, Maqbool, to Jerrold Electronics Corporation. Thermally conducting transistor support arms. 3,487,267, 12-30-69, Cl. 317-100.
Winston, Milton D. Disposable container for waste cooking grease. 3,487,439, 12-30-69, Cl. 206-1.
Winteler, Paolo: *See*—
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo,3,424,789.
Schulz, Johann G. D.; Whitaker, Arthur C.; and Winteler, Paolo,3,467,698.
Winter, August; and Mann, Egon, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Vehicle transmission system and power take-off. 3,442,346, 5-6-69, Cl. 180-53.
Winter, August; Mann, Egon; Pfeiffer, Willi; and Arnegger, Wilhelm, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Transmission shift device. 3,433,087, 3-18-69, Cl. 74-473.
Winter, Charles A., to Merck & Co., Inc. Indomethacin compositions. 3,461,208, 8-12-69, Cl. 424-243.
Winter, Charles A.: *See*—
Flowers, Ralph G.; and Winter, Charles A.,3,442,834.
Winter, Floyd E.; and Heaberlin, Paul L., to McGraw-Edison Company. Liquid vaporizer. 3,465,469, 9-9-69, Cl. 43-129.
Winter, Heinrich: *See*—
Esslinger, Paul; Winter, Heinrich; and Wolf, Walter,3,445,920.
Winter, Heinz W., to Allis-Chalmers Manufacturing Company. Brake device for headcenter of a gyratory crusher. 3,473,743, 10-21-69, Cl. 241-208.
Winter, Heinz, to Envirotech Corporation, mesne. Toggle link mounting mechanism. 3,479,904, 11-25-69, Cl. 74-520.
Winter, Heinz; and Brossmann, Gottfried, to Elektrochemische Werke, Munchen, A. G. Dry solid organic peroxide compounds. 3,462,370, 8-19-69, Cl. 252-186.
Winter, Hermann; and Weber, Heinrich, to Chemische Werke Huls Aktiengesellschaft. Method of regulating the molecular weights of polydiolefins. 3,423,383, 1-21-69, Cl. 260-94.3
Winter, Jakob: *See*—
Schulde, Felix; and Winter, Jakob,3,424,709.
Winter, James S., to Vernay Laboratories, Inc. Thermal sensitive element. 3,420,105, 1-7-69, Cl. 73-368.3
Winter, Joseph, to Olin Mathieson Chemical Corporation. Process for obtaining a composite article. 3,462,827, 8-26-69, Cl. 29-472.3
Winter, Joseph, to Olin Mathieson Chemical Corporation. Process for obtaining a composite article. 3,462,828, 8-26-69, Cl. 29-472.3
Winter, Joseph, to Olin Mathieson Chemical Corporation. Cylindrical or rod-like composite article. 3,463,620, 8-26-69, Cl. 29-183.5
Winter, Joseph; and Goldman, Alan J., to Olin Mathieson Chemical Corporation. Method for reclaiming composite metal scrap. 3,481,020, 12-2-69, Cl. 29-403.
Winter, Joseph: *See*—
Rader, William M.; Goldman, Alan J.; and Winter, Joseph,3,470,607.
Winter, Leonard; and Leighty, Ronald. Gate fastener. 3,473,598, 10-21-69, Cl. 160-328.
Winter, Nikolaus; and Benedict, Janos, to Mechanische Baumwoll-Spinnerei und Weberei, Augsburg. Thread severing and brushing apparatus. 3,426,518, 2-11-69, Cl. 57-34.
Winter, Peter Heron, to Britten-Norman Limited. Air cushion vehicles with high pressure propulsion and low pressure cushion centrifugal pumps. 3,463,263, 8-26-69, Cl. 180-117.
Winter, Peter Heron, to Britten-Norman Limited. Air cushion vehicles with centrifugal fans providing air for sustention and propulsion. 3,468,395, 9-23-69, Cl. 180-117.
Winter, Peter Heron, to Cushioncraft Limited St. Helens. Means to trim air cushion vehicles. 3,481,423, 12-2-69, Cl. 180-117.
Winter, Peter H., to Britten-Norman Limited. Centrifugal fans and air cushion vehicles incorporating such fans. 3,468,394, 9-23-69, Cl. 180-117.
Winter, Robert E.: *See*—
Chisnell, Thomas C.; and Winter, Robert E.,3,448,208.
Winter, Roger D., to Samsonite Corporation. Luggage cases. 3,432,012, 3-11-69, Cl. 190-49.
Winter, Werner: *See*—
Stach, Kurt; Winter, Werner; Schaumann, Wolfgang; and Ribbentrop, Annemarie,3,454,582.
Thiel, Max; Winter, Werner; Stach, Kurt; Schaumann, Wolfgang; and Dietmann, Karl,3,471,472.
Winter, William E.: *See*—
Garrison, Lilburn H.; and Winter, William E.,3,459,152.
Winterbottom, Robert; Bitha, Panayota; and Kissman, Henry Marcel, to American Cyanamid Company. Nitration of 11α -chloro tetracyclines. 3,433,834, 3-18-69, Cl. 260-559.
Winterbottom, Robert; and Sassiver, Martin Leon, to American Cyanamid Company. Substitution products of 7-chloro-6-demethylteracycline. 3,423,457, 1-21-69, Cl. 260-559.
Wintercorn, Andrew F.: *See*—
Gregori, Agostino; and Wintercorn, Andrew F., 3,467,966.
Wintercorn, Andrew F. Continuous operation motor tilt control mechanism. 3,468,282, 9-23-69, Cl. 115-41.
Wintercorn, Andrew F.: *See*—
Gregori, Agostino; and Wintercorn, Andrew F.,3,467,966.
Wintercorn, Walter F.: *See*—
Gregori, Agostino; and Wintercorn, Andrew F., 3,467,966.
Winterhager, Helmut: *See*—
Paschen, Peter; and Winterhager, Helmut,3,479,179.
Winterhoff, Hrst, to Licentia Patent-Verwaltungs-g.m.b.H. Method and nuclear resonance magnetometer apparatus for measuring small differencies of magnetic field. 3,482,158, 12-2-69, Cl. 324-0.5
Winters, Charles E., to Union Carbide Corporation. Method and means for flowing gas in fuel cell system. 3,462,308, 8-19-69, Cl. 136-86.
Winters, Frank H.: *See*—
Beyers, Marvin E.; Brown, Mackenzie P.; Carter, John W.; Junck, John A.; Lauterbach, Jerre F.; and Winters, Frank H.,3,463,190.
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H.,3,477,225.
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O., to Union Carbide Corporation. Vapor-liquid withdrawal selector valve. 3,428,225, 2-18-69, Cl. 222-402.17
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O., to Union Carbide Corporation. Vapor-liquid withdrawal valve. 3,430,820, 3-4-69, Cl. 222-402.17
Winters, Gary G.; Hamel, William J.; and Spencer, Richard O., to Union Carbide Corporation. Vapor-liquid withdrawal valve. 3,430,821, 3-4-69, Cl. 222-402.17
Winters, Giorgio: *See*—
Nathansohn, Giangiacomo; and Winters, Giorgio,3,436,389.
Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio,3,459,740.
Nathansohn, Giangiacomo; Winters, Giorgio; and Testa, Emilio,3,461,119.
Winters, Harry K., to Ray Oil Burner Co. Remote dual fuel changeover system with safety shutdown period. 3,453,061, 7-1-69, Cl. 431-29.
Winters, Lloyd V.: *See*—
Avery, Carl F., Jr.; Pearson, Ernest A.; and Winters, Lloyd V.,3,461,535.
Wintersberger, Karl: *See*—
Beck, Fritz; Leitner, Hans; Wintersberger, Karl; and Guthke, Harald,3,477,923.
Guthke, Harald; Wintersberger, Karl; Beck, Fritz; Floss, Josef Georg; and Habermann, Wolfgang,3,427,234.
Wunsch, Gerd; Wintersberger, Karl; and Geierhaas, Herbert,3,481,988.
Wintershall Aktiengesellschaft: *See*—
Bulian, Walter; Feher, Franz; and Dittmar, Armin, 3,474,028.
Fricke, Guenter; and Singewald, Arno, 3,480,139.
Singewald, Arno, 3,458,039.
Winton, Lavoy. Roundabout. 3,459,422, 8-5-69, Cl. 272-51.
Winton, Sidney V.: *See*—
Tinfow, Lionel; and Winton, Sidney V.,3,461,644.
Wintriss, Gaylord. Simplified low voltage controlled neon bulb circuit and method of operating. 3,461,343, 8-12-69, Cl. 315-169.
Wintriss, George, to Industrionics Controls, Inc. Device having autorotation of solid body. 3,422,234, 1-14-69, Cl. 200-83.
Wintriss, George, to Industrionics Controls, Inc. Fluid pressure operated switch. 3,440,374, 4-22-69, Cl. 200-81.
Wintriss, George, to Industrionics Controls, Inc. Fluid responsive electric switch. 3,443,044, 5-6-69, Cl. 200-83.
Wintriss, George, to Industrionics Controls, Inc. Electric switch with transverse wiping action. 3,443,045, 5-6-69, Cl. 200-83.
Wintriss, George, to Industrionics Controls, Inc. Machine load indicator with adjustment for speed. 3,446,063, 5-27-69, Cl. 73-88.
Wintriss, George, to Industrionics Controls, Inc. Impact-operated electric switch with variable sensitivity. 3,472,979, 10-14-69, Cl. 200-61.45
Wintz, Donald E., to Aladdin Manufacturing Company. Hand warmer cover. 3,420,221, 1-7-69, Cl. 126-208.

Winzen, John P. Pleated metallic filter element. 3,426,910, 2-11-69, Cl. 210-493.
Winzer, Hermann, to Renker-Belipa G.m.b.H., Firma. Transcriptive material for making copies without use of carbon paper. 3,468,692, 9-23-69, Cl. 117-36.4
Wipff, Frank Pershing; and Wilson, James A., to Airborne Navigation Corporation. Autopilot magnetic heading error correction system. 3,425,648, 2-4-69, Cl. 244-77.
Wippel, Hans Guenter: *See*—
Hahn, Erwin; and Wippel, Hans Guenter,3,441,554.
Seefelder, Matthias; Ambrust, Herbert; and Wippel, Hans Guenter,3,455,898.
Wippermann, Ulrich H. Roof girder construction. 3,474,578, 10-28-69, Cl. 52-92.
Wiremold Company, The: *See*—
Perusse, Norman J.; and Cheever, Wilbur D., 3,472,131.
Perusse, Norman J.; and Cheever, Wilbur D., 3,472,132.
Wires, Harold O., to United States of America, Interior. 'On-off' servo control for a fluid level sensor including a differential transformer pickoff with limit override. 3,463,981, 8-26-69, Cl. 318-18.
Wirfel, Emanuel W., to Mobay Chemical Company. Packaging. 3,437,197, 4-8-69, Cl. 206-59.
Wirkmaschinen-Fabrik Wilhelm Barfuss G.m.b.H.: *See*—
Schmid, Reinhold, 3,446,039.
Wirlitsch, Roland: *See*—
Nallinger, Friedrich K. H.; Muller, Alfred H.; Wirlitsch, Roland; and Hohn, Helmut,3,420,327.
Wirries, Heinrich: *See*—
Autenrieth, Hans; and Wirries, Heinrich,3,477,566.
Wirtanen, Theodore E.: *See*—
Hunt, Mahlon S.; Tavenner, Michael S.; and Wirtanen, Theodore E.,3,459,952.
Wirtel, Arthur F.: *See*—
Cheng, Jen-Pu; Hampton, John L.; and Wirtel, Arthur F.,3,481,870.
Wirth, Alfred, & Co. KG: *See*—
Lentzen, Paul; and Wolters, Jakob, 3,460,858.
Wirth, Anton: *See*—
Pfander, Hans; Schulz, Egon; and Wirth, Anton,3,471,752.
Wirth, Armin, to Wirth, Gallo & Co. Resilient body for dynamometer. 3,431,775, 3-11-69, Cl. 73-141.
Wirth, Armin; Wirth, Johannes; and Gallo, Mario, to Wirth, Gallo & Co. Combined electronic mass and force meter. 3,423,999, 1-28-69, Cl. 73-141.
Wirth, Ernst-Friedrich: *See*—
Praetzel, Hans Eberhard; Wirth, Ernst-Friedrich; and Jenkner, Herbert,3,470,116.
Wirth, Friedrich: *See*—
Schaefer, Gerhard; Suter, Hubert; Wirth, Friedrich; and Mann, Walter,3,420,750.
Wirth, Gallo & Co.: *See*—
Wirth, Armin; Wirth, Johannes; and Gallo, Mario, 3,423,999.
Wirth, Armin, 3,431,775.
Wirth, Gustave P. Lock. 3,430,467, 3-4-69, Cl. 70-67.
Wirth, Hans: *See*—
Eisenlohr, Karl Heinz; and Wirth, Hans,3,433,849.
Wirth, Heinz; Helmberger, Hermann; and Herrmann, Hans, to Consortium fur Elektrochemische Industrie G.m.b.H. Apparatus for manufacturing flawless, stress-free boron rods. 3,434,803, 3-25-69, Cl. 23-273.
Wirth, Hermann O.: *See*—
Horrocks, Donald L.; and Wirth, Hermann O.,3,478,208.
Wirth, Hermann O.: *See*—
Horrocks, Donald L.; and Wirth, Hermann O.,3,478,208.
Wirth, Hermann, to Bosch, Robert, Hausgeraete G.m.b.H. Electrostatic painting apparatus. 3,478,962, 11-18-69, Cl. 239-15.
Wirth, Johannes: *See*—
Wirth, Armin; Wirth, Johannes; and Gallo, Mario,3,423,999.
Wirth, Jon C., to C.R.O. Engineering Co., Inc., mesne. Tool control system for lineal movement in accordance with selected geometric shapes. 3,465,219, 9-2-69, Cl. 318-18.
Wirth, Jon C.: *See*—
Kleine, Rudolph W.; and Wirth, Jon C.,3,434,212.
Wirth, Louis F., Jr.; and Robertson, Reed S., to Nalco Chemical Company. Polyphosphate glasses and water treatment uses thereof. 3,432,428, 3-11-69, Cl. 210-29.
Wirth, Max Marin: *See*—
Marrian, Stanley Frederic; and Wirth, Max Marin,3,427,350.
Wirth, Robert: *See*—
Mey, Hansjuerg; Wirth, Robert; and Zeindler, Reinhard,3,482,916.
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. 3-Aryl-7-triazolyl carbostyril. 3,422,113, 1-14-69, Cl. 260-288.
Wirth, Wolf-Dieter; Knupfer, Hans; and Schellhammer, Carl-Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. 7-Aryltriazolyl-3-aryl-carbostyrils. 3,446,805, 5-27-69, Cl. 260-247.2
Wirth, Wolf-Dieter; Knupfer, Hans; Schellhammer, Carl-Wolfgang; Schonol, Karl; and Scholermann, Walter, to Farbenfabriken Bayer Aktiengesellschaft. 3-Phenyl-7-amino-carbostyrils as brightening agents. 3,420,835, 1-7-69, Cl. 260-288.
Wirtz, Peter: *See*—
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,476,955.
Krekeler, Hans; Jacobowsky, Armin; Born, Klaus; Schmitz, Heinz; and Wirtz, Peter,3,484,493.
Wirz, A. H., Inc.: *See*—
Dzedzej, Henry S., 3,442,707.
Wirz, Burkhardt: *See*—
Kammuller, Reiner; and Wirz, Burkhardt,3,439,175.
Wirz, Burkhardt, to Roland Effselmaschinenfabrik Faber & Schleicher AG. Device for supervising the ink supply of a printing press. 3,442,121, 5-6-69, Cl. 73-150.
Wischmann, Heinrich: *See*—
Engels, Gunther; Kablitz, Gert; and Wischmann, Heinrich,3,450,920.
Wischmeyer, William F.; and Hoffman, John E. Filter-drier unit. 3,434,599, 3-25-69, Cl. 210-266.
Wisconsin Alumni Research Foundation: *See*—
Bonesho, James A.; and Bollinger, John Gustave, 3,483,951.
Drake, Edwin George; and Frechette, Marius, 3,437,073.
Herb, Raymond G., 3,449,660.
Wisconsin Electrical Mfg., Co., Inc.: *See*—
Bale, Alton G., Jr., 3,434,556.
Wisdom, Norvell E., Jr.; and Forster, Eric O., to Esso Research and Engineering Company. Organic charge transfer solution battery. 3,421,947, 1-14-69, Cl. 136-100.
Wisdom, Norvell E., Jr.: *See*—
Walker, David G.; and Wisdom, Norvell E., Jr.,3,437,569.
Wisdom, Norvelle E., to Esso Research and Engineering Company. Electrolytic polymerization of aromatic compounds. 3,437,570, 4-8-69, Cl. 204-59.
Wisdom, William H. Steam and vacuum nozzle. 3,436,787, 4-8-69, Cl. 15-321.
Wisdom, William H. Steam and vacuum nozzle. 3,439,374, 4-22-69, Cl. 15-321.
Wise, Ann R., to United Aircraft Corporation. Method of depositing conductive patterns on a substrate. 3,443,944, 5-13-69, Cl. 96-36.2
Wise, Arthur C. Stop gauge. 3,477,321, 11-11-69, Cl. 82-34.
Wise, Boyd A., to General Dynamics Corporation. Hydroacoustic apparatus with filter isolation means. 3,450,217, 6-17-69, Cl. 175-56.
Wise, Cecil S.: *See*—
Lytton, Kenneth G.; and Wise, Cecil S.,3,421,659.
Wise, Cecil S., to Fiber Controls Corporation. Fiber blending equipment. 3,439,838, 4-22-69, Cl. 222-57.
Wise, Charles M., to United States of America, Navy. Free flight wind tunnel model launcher. 3,456,503, 7-22-69, Cl. 73-147.
Wise, Charles R., to United States of America, Army. Bidirectional flow beacon. 3,432,853, 3-11-69, Cl. 343-6.8
Wise, David S., to Western Reserve Electronics Inc. Diode bridge protection circuits for electrical measuring instruments employing the diode forward drop threshold voltage. 3,426,274, 2-4-69, Cl. 324-110.
Wise, Edgar W.: *See*—
Potts, James E.; Ashcraft, Arnold C., Jr.; and Wise, Edgar W.,3,472,826.
Wise, Eugene H.: *See*—
Blumenkranz, James J.; and Wise, Eugene H.,3,462,890.
Wise, Harold L.: *See*—
Pearce, Harry H.; Turner, James B.; and Wise, Harold L.,3,461,830.
Prescott, Basil O.; Wise, Harold L.; and Chesnut, Dwayne A.,3,451,780.
Wise, Joseph T. Polymerizing apparatus. 3,476,521, 11-4-69, Cl. 23-285.
Wise, Raleigh Warren, to Monsanto Company. Method and device for measuring mechanical stress at predetermined strain. 3,468,161, 9-23-69, Cl. 73-101.
Wise, Ralph H., 50% to Duke, Vernon. Locking device for pivoted members. 3,426,386, 2-11-69, Cl. 16-140.
Wise, Richard M.: *See*—
Kalafus, Edward F.; and Wise, Richard M.,3,449,200.
Wise, Robert T.; and Erickson, Leonard A., to Big Drum, Inc. Paper cone and blank therefor. 3,487,443, 12-30-69, Cl. 229-1.5
Wise, Robert V. Tape thermometer holders. 3,439,540, 4-22-69, Cl. 73-344.
Wise, Samuel P.: *See*—
Stonebraker, Melvin E.; and Wise, Samuel P.,3,463,735.
Wise, Stephen R. Hurdle and target. 3,480,273, 11-25-69, Cl. 272--059
Wise, Warren J., to Bethlehem Steel Corporation. Convertible machine unit and method of converting same. 3,475,807, 11-4-69, Cl. 29-400.
Wise, Warren M.: *See*—
Settzo, Robert J.; and Wise, Warren M.,3,448,032.
Wise, William B.: *See*—
Lini, David C.; Ramey, Kermit C.; and Wise, William B.,3,465,043.

Wiseman, John A., to Emhart Corporation. Method and means for reorienting nested articles on a conveyor to form laterally aligned columns. 3,444,980, 5-20-69, Cl. 198-30.
Wiseman, John A., to Emhart Corporation. Conveyor system for handling groups of articles. 3,482,674, 12-9-69, Cl. 198-34.
Wiseman, William A., to Continental Motors Corporation. Engine drive system. 3,421,343, 1-14-69, Cl. 64-27.
Wiseman, William A., to Continental Motors Corporation. Engine construction. 3,421,490, 1-14-69, Cl. 123-195.
Wiseman, William A.; and Eberly, Paul G., to Continental Motors Corporation. Engine accessory drive shaft construction. 3,447,393, 6-3-69, Cl. 74-421.
Wiseman, William A.; and Fordham, Clifford, to Continental Motors Corporation. Engine accessory drive construction. 3,429,304, 2-25-69, Cl. 123-195.
Wiseman, William A.; and Walker, John L., to Continental Motors Corporation. Engine gearing arrangement. 3,447,515, 6-3-69, Cl. 123-90.
Wiseman, William Antony. Detection systems for gas chromatography. 3,447,908, 6-3-69, Cl. 23-255.
Wiseman, William Antony. Measuring process and apparatus. 3,484,203, 12-16-69, Cl. 23-232.
Wiseman, William Antony. Detection systems. 3,486,861, 12-30-69, Cl. 23-232.
Wiser, Emerson: *See—*
Turner, Lloyd S., 3,441,159.
Wiser, Emery L.: *See—*
Carter, Melvin W.; and Wiser, Emery L.,3,429,806.
Wiser, Joseph E., to Mallory, P. R., & Co., Inc. Switch actuator means including a rapid advance mechanism. 3,424,877, 1-28-69, Cl. 200-38.
Wiser, Joseph E.; and Voland, Elmo W., to Mallory, P. R., & Co., Inc. Timer switch having a rapid advance mechanism. 3,424,876, 1-28-69, Cl. 200-38.
Wiser, Joseph E.: *See—*
Pervorse, Richard E.; Wiser, Joseph E.; Peterson, John A.; and Murray, Stephen F.,3,448,308.
Putterbaugh, James B.; and Wiser, Joseph E.,3,466,464.
Voland, Elmo W.; and Wiser, Joseph E.,3,446,923.
Wishart, Randell J. Automatic food delivery and return system. 3,464,363, 9-2-69, Cl. 104-88.
Wishnie, Frederick T.: *See—*
Broderick, John P.; and Wishnie, Frederick T.,3,430,862.
Wishon, Berhl E.: *See—*
Pavlica, Stanley R.; and Wishon, Berhl E.,3,421,917.
Wiskow, Gary J.: *See—*
Backe, Eugene K.; and Wiskow, Gary J.,3,441,390.
Wisler, Lee G.: *See—*
Kulieke, Fredick C., Jr.; and Wisler, Lee G.,3,445,005.
Wislocki, Joseph P.: *See—*
McRae, John L.; and Wislocki, Joseph P.,3,478,572.
Wislocky, Joseph, to International Rectifier Corporation. Steel insert for semiconductor device stud. 3,427,395, 2-11-69, Cl. 174-52.
Wisman, Emery C.; and Kronlage, John W., to Texas Instruments, Incorporated. Apparatus and process for growing noncontaminated thermal oxide on silicon. 3,446,659, 5-27-69, Cl. 117-201.
Wismer, Marco: *See—*
Gerhart, Howard L.; Wismer, Marco; and Prucnal, Paul J.,3,442,839.
Wismer, Marco; Doerge, Herman P.; and Mosso, Paul R., to PPG Industries, Inc. Urethane foams containing wood tars or oxyalkylated wood tars. 3,468,822, 9-23-69, Cl. 260-2.5
Wismer, Marco; and Peffer, John R., to PPG Industries, Inc. Thermosetting composition containing an acetalized polymer and a polyol. 3,449,272, 6-10-69, Cl. 260-17.4
Wismer, Marco; and Prucnal, Paul John, to PPG Industries, Inc. Laminated articles containing oxidatively cured non- rubbery interpolymers and method for making. 3,484,335, 12-16-69, Cl. 161-160.
Prucnal, Paul J.; Wismer, Marco; and Christenson, Roger M.,3,483,273.
Wismer, Samuel W., Jr.: *See—*
Brown, Francis X.; and Wismer, Samuel W., Jr.,3,430,323.
Wisner, Daniel A., to Burroughs Corporation. Write driver circuit for a digital magnetic recording head. 3,438,054, 4-8-69, Cl. 346-74.
Wisner, Jackson W., Jr.: *See—*
Lyons, Joseph F.; Wisner, Jackson W., Jr.; and Thomas, Paul R.,3,429,820.
Wisner, John A. Mobile wall washing apparatus. 3,464,081, 9-2-69, Cl. 15-321.
Wisnia, Jeffry A.: *See—*
Spaulding, David B.; and Wisnia, Jeffry A.,3,437,926.
Wisniewski, Arthur J., to American Standard Inc. Solenoid valve with integral plastic bobbin and seat. 3,420,260, 1-7-69, Cl. 137-315.
Wisniewski, Arthur John. Solenoid valve. 3,459,404, 8-5-69, Cl. 251-141.
Wisniewski, Jacob H., to Lockheed Aircraft Corporation. Sine-cosine function generator. 3,457,395, 7-22-69, Cl. 235-189.
Wisniewski, John C.: *See—*
Hougland, John W.; and Wisniewski, John C.,3,420,751.
Wisniewski, Walter S., to Repco Products Corporation. Underground electrical conductor housing with inner bell-jar housing. 3,482,030, 12-2-69, Cl. 174-37.
Wiss, J., and Sons Co.: *See—*
Wertepny, Rudolph J., Sr., 3,453,651.
Wertepny, Rudolph J., Sr., 3,453,731.
Wissel, Francis A., to Avco Corporation. Decoding arrangement with magnetic inhibitor means for providing a fail-safe command signal. 3,423,728, 1-21-69, Cl. 340-146.1
Wissenberg, Herman, to Standard Oil Company (Indiana). Method for inhibiting corrosion of ferrous alloys. 3,477,861, 11-11-69, Cl. 106-14.
Wissick, William P.: *See—*
Cooper, James C.; and Wissick, William P.,3,445,819.
Wissick, William P., to International Business Machines Corporation. Contiguous bulk storage addressing. 3,435,420, 3-25-69, Cl. 340-172.5
Wissick, William P., to International Business Machines Corporation. Overlapped and underlapped accessing of multi- speed storage devices. 3,445,820, 5-20-69, Cl. 340-172.5
Wissman, Jack L.: *See—*
Duffey, Donn W.; and Wissman, Jack L.,3,425,439.
Wissmann, Hans; Siedel, Walter; and Geiger, Rolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of phenolic ether resins containing an N-acylamino acid. 3,487,047, 12-30-69, Cl. 260-52.
Wissmann, Hans: *See—*
Siedel, Walter; and Wissmann, Hans,3,457,314.
Wisti, Morris D.: *See—*
Van Someren, Harris; and Wisti, Morris D.,3,483,775.
Wisting, Walter L., to Wallace-Murray Corporation. Gas treating apparatus and method. 3,448,562, 6-10-69, Cl. 55-90.
Wistrand, John C.; and Scholze, Alfred O., to Columbia Broadcasting System, Inc. Display apparatus. 3,466,777, 9-16-69, Cl. 40-125.
Wistrand, John C.: *See—*
Goodell, John D.; Ivins, Barbara; Wistrand, John C.; and Tasi, Vasil,3,424,393.
Wistreich, Hugo E., to Heller, B., & Co. Method of producing a ground meat product. 3,467,527, 9-16-69, Cl. 99-108.
Wistreich, John G., to British Iron and Steel Research Association, The. Rolling of strip. 3,457,748, 7-29-69, Cl. 72-8.
Witco Chemical Company, Inc.: *See—*
Bluestein, Claire; Lauze, Wilfrid L.; and Bluestein, Bernard R., 3,428,564.
Fowler, Loren M.; and Burrell, Harry D., 3,440,073.
Mausner, Marvin; Katstra, Richard D.; and Spiegelman, Gerald, 3,458,449.
Phillips, Joseph, 3,485,747.
Rostler, Fritz S., 3,432,321.
Selz, Edgar, 3,424,847.
Witdoeckt, Albert Norbert Robert. Method of making an electrical resistor. 3,427,712, 2-18-69, Cl. 29-611.
Witehead, J. A.: *See—*
Kite, Charles Kenneth; and Puleo, Elio J., 3,438,642.
Witek, Joseph; and Beercheck, Thomas, to Hudson, H. D., Manufacturing Company. Display bracket. 3,481,481, 12-2-69, Cl. 211-49.
Witek, Roman J., Jr.: *See—*
Hartz, Marvin E.; and Witek, Roman J., Jr.,3,475,718.
With, Bror. Ski binding of the toe binding type. 3,481,618, 12-2-69, Cl. 280-11.35
Witherell, Charles E., to International Nickel Company, Inc., The. Welding material for austenitic ductile iron. 3,466,422, 9-9-69, Cl. 219-146.
Witherow, Lawrence R.: *See—*
Lawrence, Raymond Edward; and Witherow, Lawrence R.,3,429,042.
Withers, James G., Jr., to Calumet & Hecla Corporation, mesne. Configuration of heat transfer tubing for vapor condensation on its outer surface. 3,481,394, 12-2-69, Cl. 165-179.
Withers, John S., to McGraw-Edison Company. Protector for electric circuits. 3,453,580, 7-1-69, Cl. 337-221.
Withers, Michael S., to Du Pont de Nemours, E. I., and Company. Heat exchanger component formed with flexible plastic tubes. 3,435,893, 4-1-69, Cl. 165-158.
Withers, Thomas W.: *See—*
Davis, Noah S.; Foust, Oren J.; and Withers, Thomas W.,3,440,165.
Withnell, Ronald, to United States of America, Atomic Energy Commission. Volumetric flow measurement. 3,463,004, 8-26-69, Cl. 73-232.
Withorn, Benjamin. Combustion apparatus. 3,456,606, 7-22-69, Cl. 110-119.
Withorn, Benjamin. Laundry flatwork feeder. 3,470,636, 10-7-69, Cl. 38-143.

Witmer, Paul E., to New Holland Concrete Products, Inc. Block bottom dispenser. 3,428,192, 2-18-69, Cl. 214-8.5
Witsch, Guenter: *See*—
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; and Witsch, Guenter,3,478,376.
Witsch, Heinz-Guenter: *See*—
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; Witsch, Heinz-Guenter; and Theilig, Dietmar,3,442,600.
Witschard, Gilbert: *See*—
Hinderstinn, Raymond R.; and Witschard, Gilbert,3,449,161.
Witschard, Gilbert; and Bean, Claude Thomas, Jr., to Hooker Chemical Corporation. Process for reacting diolefinic polymer with polyhalocyclopentadiene and products thereof. 3,462,407, 8-19-69, Cl. 260-94.7
Witschi, Fritz; and Bunzli, Max, to IVF Verbandstoffmaschinen-Fabrik Schaffhausen. Machine for producing cylindrical cotton bodies. 3,449,797, 6-17-69, Cl. 19-149.
Witsiepe, William Kenneth, to Du Pont de Nemours, E. I., and Company. Process for preparing polyurethanes by interfacial polymerization. 3,485,802, 12-23-69, Cl. 260-77.5
Witt, Chester J.: *See*—
Skoli, Eugene A.; Witt, Chester J.; Skoli, Sigmund P.; and Mojonnier, Harry G.,3,468,335.
Witt, Edward, to Standard Brands Chemical Industries, Inc. Preparation of Carboxylic polymers in acidic aqueous media. 3,480,578, 11-25-69, Cl. 260-23.7
Witt, Enrique R.: *See*—
Carpenter, Sammy; Witt, Enrique R.; and Cahill, Joseph J., Jr.,3,474,148.
Witt, Enrique Roberto; Carpenter, Sammy; and Zee-Cheng, Kwang Yuen, to Celanese Corporation. Polyhalohydrins from epoxidized fatty materials. 3,450,726, 6-17-69, Cl. 260-408.
Taylor, Wallace Edmondson; and Witt, Enrique Roberto,3,462,468.
Witt, Enrique R., to Celanese Corporation. Polymethylene and polyalkylene ether polythiono- phosphate esters. 3,435,099, 3-25-69, Cl. 260-929.
Witt, Francis J.: *See*—
Heightley, John D.; Johannes, Virgil I.; Mayo, John S.; and Witt, Francis J.,3,420,956.
Witt, Fred H. Fish holder. 3,420,563, 1-7-69, Cl. 294-16.
Witt, Harold D. Clamping device. 3,482,868, 12-9-69, Cl. 294-50.9
Witt, Harry S.: *See*—
Chmiel, Chester T.; and Witt, Harry S.,3,421,766.
Witt, Klaus Dieter, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Apparatus for digital analogous conversion, especially for the time deviation in distance measuring devices. 3,428,939, 2-18-69, Cl. 340-1.
Witt, William W.; and Madeley, Paul E., to Geo Space Corporation. Electronic data plotter. 3,465,295, 9-2-69, Cl. 340-172.5
Wittbecker, Emerson L., to Du Pont de Nemours, E. I., and Company. Synthetic fiber forming polyamides containing piperazine polyamides. 3,471,590, 10-7-69, Cl. 260-857.
Wittbrodt, Edwin L.: *See*—
Erickson, Robert E.; and Wittbrodt, Edwin L.,3,440,184.
Wittcoff, Harold A.: *See*—
Kamal, Marwan R.; and Wittcoff, Harold A.,3,440,087.
Van Bochove, Cornelis; Hueck, Hendrik J.; and Wittcoff, Harold,3,453,067.
Vertnik, Leonard R.; and Wittcoff, Harold,3,475,406.
Witte, Arnold C., Jr.: *See*—
Green, William B., Jr.; Witte, Arnold C., Jr.; Pitman, Herbert J.; and Dowden, Clarence L., Jr.,3,475,337.
Witte, Josef; Herrmann, Marion; Woidt, Jurgen; and Peters, Freimut, to Varta Aktiengesellschaft. Alkaline storage battery with $Be(OH)_2$ in the electrolyte. 3,457,111, 7-22-69, Cl. 136-24.
Witte, Josef: *See*—
Pampus, Gottfried; Witte, Josef; and Schon, Nikolaus,3,423,388.
Schnoring, Hildegard; Classe, Willy; Pampus, Gottfried; Schon, Nikolaus; and Witte, Josef,3,450,184.
Schon, Nikolaus; Witte, Josef; and Pampus, Gottfried,3,476,735.
Witte, Wolfgang, 1/2 to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Condenser-type optical system with conical light piping member for radiation detector. 3,448,276, 6-3-69, Cl. 250-216.
Wittebort, Robert W.: *See*—
Marshall, Robert M.; and Wittebort, Robert W.,3,451,452.
Wittek Manufacturing Co.: *See*—
Tetzlaff, Clarence C.; and Chamberlain, George, 3,454,996.
Tetzlaff, Clarence C.; and Chamberlain, George, 3,477,106.
Witteman, David P. Apparatus for determining feeding rate of grain drills or the like. 3,475,966, 11-4-69, Cl. 73-432.
Witten, Benjamin: *See*—
Sass, Samuel; Witten, Benjamin; and Davis, Paul,3,441,955.
Wittenbecher, Rudolf, to Standard Elecktrik Lorenz AG. Method and apparatus for making video tubes implosionproof. 3,458,914, 8-5-69, Cl. 29-25.19
Wittenberg, William J.: *See*—
Doveinis, Juozas; Gionet, Edmond R.; and Wittenberg, William J.,3,466,802.
Wittenbrook, Lawrence S.: *See*—
Wietelmann, Ronald E.; and Wittenbrook, Lawrence S.,3,449,390.
Wittenmayer, Erich, to Christian Holzapfel KG. Connecting arrangement. 3,456,969, 7-22-69, Cl. 287-20.926
Wittenwyler, Clifford V.: *See*—
Bezemer, Cornelis; Meijs, Franciscus H.; van Zanten, Marinus; and Wittenwyler, Clifford V.,3,476,189.
Wittenwyler, Clifford V.; and Magee, John E., to Shell Oil Company. Process for sealing cement concrete surfes. 3,447,955, 6-3-69, Cl. 117-123.
Wittenzellner, Georg, to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. Tap changer contact bridge with spring-biased lost motion pin connection. 3,458,670, 7-29-69, Cl. 200-11.
Wittern, Francis Arthur, to Fawn Engineering Company. Apparatus for individually preparing and dispensing a cup of fresh brewed coffee. 3,426,670, 2-11-69, Cl. 99-298.
Wittgenstein, Gerard F. Land or underwater pipe line. 3,430,484, 3-4-69, Cl. 73-40.5
Wittholz, Charles W.: *See*—
Faul, Thomas L.; Sherman, T. Jefferson; and Wittholz, Charles W.,3,470,839.
Wittig, Gerhard, to Wacker, Hermann and Wacker, Peter. Device for regulating the air pressure in a motor-driven manually guided working apparatus. 3,421,377, 1-14-69, Cl. 74-18.2
Witting, Ernst, to Messer Griesheim G.m.b.H. Gas shielded arc welding torch with automatic adjustable shielding gas feed. 3,432,637, 3-11-69, Cl. 219-74.
Wittkamp, Joel M. Sailboat. 3,473,502, 10-21-69, Cl. 114-39.
Wittke, Raymond B., to Sprague Electric Company. Method for forming a solid electrolyte capacitor. 3,471,377, 10-7-69, Cl. 204-37.
Wittke, Raymond B., to Sprague Electric Company. Solid electrolyte capacitor process. 3,481,029, 12-2-69, Cl. 29-570.
Wittman, Lewis J., to Anchor Hocking Glass Corporation. Production of decorated, polytetrafluoroethylene coated glass cooking vessel. 3,445,266, 5-20-69, Cl. 117-70.
Wittmann, Erwin J., to RCA Corporation. Single ended and differential stabilized amplifier. 3,460,049, 8-5-69, Cl. 330-28.
Wittmann, Hans, a/k/a Wittmann, Johan: *See*—
Helmberger, Hermann; Dietz, Wolfgang; Gutberlet, Fritz; Hermann, Hans; and Wittmann, Hans, a/k/a Wittmann, Johan,3,421,054.
Wittmann, Josef: *See*—
Bauer, Simon; and Wittmann, Josef,3,480,324.
Wittmann, Richard B.: *See*—
Nigrelli, Biagio J.; Standley, Wendell E.; and Wittmann, Richard B.,3,473,295.
Standley, Wendell E.; and Wittmann, Richard B.,3,466,834.
Wittmann, Rolf, to Merck, E., A.G. Process for the manufacture of monofluorophosphoric acid and its monoesters. 3,424,550, 1-28-69, Cl. 23-50.
Wittmeyer, Herbert M.: *See*—
Hurd, Ramon L.; and Wittmeyer, Herbert M.,3,459,447.
Wittmoser, Adalbert. Gasifiable feeders with cavity filling mandrels. 3,452,806, 7-1-69, Cl. 164-246.
Wittnebel, Bruce W.: *See*—
Puerckhauer, Gerhard W. R.; Sagawa, Burt K.; and Wittnebel, Bruce W.,3,460,946.
Wittneben, Hermann: *See*—
Depmeyer, Lothar; and Wittneben, Hermann,3,481,385.
Wittneben, Hermann, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,451,461, 6-24-69, Cl. 152-356.
Niclas, Walter; and Wittneben, Hermann,3,486,545.
Wittner, Edward F. Automobile brake and throttle controls. 3,439,784, 4-22-69, Cl. 192-3.
Wittner, Eugene, to Shell Oil Company. Lubricating compositions. 3,454,497, 7-8-69, Cl. 252-42.7
Wittner, Eugene; and Wendler, Kenneth T., to Shell Oil Company. Lubricant compositions. 3,432,433, 3-11-69, Cl. 252-32.5
Wittner, Eugene: *See*—
Henderson, Bennett M.; Ratner, Hyman; and Wittner, Eugene,3,480,550.
Wittren, Richard Arthur: *See*—
King, Donald Ray; Allen, James Robert; and Wittren, Richard Arthur,3,428,143.
Wittrowsky, Gunter; and Goppelt, Horst, to Siemens Aktiengesellschaft. Method and apparatus for conveying granular material through conveyor ducts. 3,472,558, 10-14-69, Cl. 302-14.
Wittwer, Alvin L., to International Business Machines Corporation. Drive system for business machines. 3,422,700, 1-21-69, Cl. 74-574.
Wittwer, John C. Vaporizing device. 3,421,841, 1-14-69, Cl. 21-119.
Wittwer, John C. Bottle cap with interlocking threads. 3,435,978, 4-1-69, Cl. 215-98.
Witwer, Wallace J., to Hein-Werner Corporation. Hydraulic system for use with telescopic boom apparatus. 3,426,926, 2-11-69, Cl. 214-141.

Witwer, Wallace J., to Hein-Werner Corporation. Remote control system. 3,451,560, 6-24-69, Cl. 212-38.
Witwer, Wallace J., to Hein-Werner Corporation. Backhoe hydraulic control system. 3,476,274, 11-4-69, Cl. 214-138.
Witzel, Gunter: *See*—
Schurle, Werner; Muller, Anton; and Witzel, Gunter,3,429,353.
Witzel, Herbert; and Follmann, Hartmut, to Zellstoffabrik Waldhof AG. Process for the preparation of nucleoside phosphate. 3,467,648, 9-16-69, Cl. 260-211.5
Witzel, Thomas A., to General Motors Corporation. Method of making commutator assembly. 3,449,827, 6-17-69, Cl. 29-597.
Witzenburg, Marion J.: *See*—
Ireland, Gerald B.; and Witzenburg, Marion J.,3,433,985.
Witzig, Karl E.; and Frank, Rudolf. Method and machine for the manufacture of solder sweat fittings. 3,452,580, 7-1-69, Cl. 72-370.
Witzky, Julius E.: *See*—
Ward, Raymond G.; and Witzky, Julius E.,3,425,399.
Wiuhrer, Josef. Method of bonding refractory grains utilizing CO_2 gas. 3,487,147, 12-30-69, Cl. 264-82.
Wix Corporation: *See*—
Humbert, Kingsley E., Jr., 3,456,800.
Humbert, Kingsley E., Jr.; Hough, Lewis M., Jr.; and Francois, Paul L., 3,467,256.
Humbert, Kingsley E., Jr.; and Rush, James A., 3,469,707.
Humbert, Kingsley E., Jr., 3,473,666.
Jumper, Henry M., 3,465,883.
Young, Ralph L.; and Humbert, Kingsley E., Jr., 3,458,977.
Wix of London Limited: *See*—
Coles, Eric Neville, 3,435,585.
Wiz Corporation: *See*—
Ike, Ernest C., 3,431,031.
Woodward, Elmer Ralph, 3,479,927.
Wizenick, Richard J., to Globe-Union Inc., mesne. Electrical connector for semiconductor devices. 3,454,774, 7-8-69, Cl. 250-220.
Wlezien, Richard A., to Outboard Marine Corporation. Seal arrangements for marine propellers. 3,444,932, 5-20-69, Cl. 170-160.54
Wluka, David Jankiel: *See*—
Hopwood, John Joseph; and Wluka, David Jankiel,3,463,764.
Wluka, David Jankiel, to Imperial Chemical Industries of Australia and New Zealand Limited. Process of foaming a polymerizable cyclic vinyl ether composition. 3,444,107, 5-13-69, Cl. 260-2.5
Wluka, David Jankiel, to Imperial Chemical Industries of Australia and New Zealand Limited. Method of foaming a vinyl chloride polymer. 3,454,507, 7-8-69, Cl. 260-2.5
Wluka, David Jankiel, to Imperial Chemical Industries of Australia and New Zealand Limited. Polyurethane foam compositions. 3,484,392, 12-16-69, Cl. 260-2.5
Wobrock, Marvin T., to General Motors Corporation. Automatic clutch wear compensation. 3,429,412, 2-25-69, Cl. 192-111.
Wochner, Kurt, to Rheinbau G.m.b.H. Concrete molding apparatus. 3,426,403, 2-11-69, Cl. 25-41.
Wochnowski, Waldemar: *See*—
Koch, Hans; and Wochnowski, Waldemar,3,429,317.
Wochnowski, Waldemar, to Hauni-Werke Korber & Co. K.G. Method and apparatus for detecting the dry weight per unit-length increment of a moving stream of tobacco by determining the ratio of total moisture to moisture per unit volume. 3,482,162, 12-2-69, Cl. 324-61.
Wodl, Johann; and Berdan, Frohwald, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Steel casting machine. 3,482,710, 12-9-69, Cl. 212-130.
Wodli, Emile. Trays or drawers and systems for stacking the same. 3,468,591, 9-23-69, Cl. 312-111.
Wodtke, Hans: *See*—
Kater, Karl-Heinz; and Wodtke, Hans,3,456,473.
Woebcke, Herman N.: *See*—
Topper, Robert L.; Cofield, William W.; Williams, Amos F.; Foster, Raymond C.; Woebcke, Herman N.; Goldman, Albert W.; and Kusko, Alexander,3,421,050.
Woehler, Karlheinz Edgar: *See*—
Wang, Tsih Chang; Fouad, Abdel-Azia A.; and Woehler, Karlheinz Edgar,3,483,403.
Woelfer, Charles G.; and Dohr, Albert D., to Nooter Corporation. Multi-layer vessel. 3,478,784, 11-18-69, Cl. 138-157.
Woellhaf, Josef: *See*—
Lehrer, Erwin; and Woellhaf, Josef,3,437,275.
Woermbke, James D.; and Kempic, Joseph A., to Westinghouse Electric Corporation. Power divider for antenna array using digital ferrite phase shifters. 3,474,454, 10-21-69, Cl. 343-778.
Woerner, Rudolph C., to Petro-Tex Chemical Corporation. Dehydrogenation process. 3,468,969, 9-23-69, Cl. 260-680.
Woerner, Rudolph C.: *See*—
Tschopp, Lloyd D.; and Woerner, Rudolph C.,3,479,416.
Tschopp, Lloyd D.; Welch, Lester M.; and Woerner, Rudolph C.,3,474,155.
Woessner, Richard: *See*—
Benda, Alexander Z.; and Woessner, Richard,3,440,958.
Wofford, Clinton F., to Phillips Petroleum Company. Alkene oxide polymerization with an organoaluminum, beta-diketone metal salt and adjuvant catalyst system. 3,484,388, 12-16-69, Cl. 260-2.
Wofford, George D.; and Chandler, Mark, to Bendix Corporation, The. Switching means for AM/FM/FM stereo radio receiver. 3,472,967, 10-14-69, Cl. 179-15.
Wofsey, David, to Martin-Marietta Corporation. Eddy current seam tracker and servo control responsive thereto. 3,484,667, 12-16-69, Cl. 318-18.
Wogatzke, Horst, to Wenczler & Heidenhain, Firma. Apparatus for measuring of lengths by means of impulse counting. 3,487,399, 12-30-69, Cl. 340-347.
Wognum, James N., to Interlake Steel Corporation. Continuous casting. 3,483,918, 12-16-69, Cl. 164-260.
Wohl, Arnold J.: *See*—
Topliss, John G.; and Wohl, Arnold J.,3,462,428.
Wohlberg, Cornel, to United States of America, Atomic Energy Commission. Method of forming compacted graphite bodies. 3,479,423, 11-18-69, Cl. 264-122.
Wohlberg, Cornel, to United States of America, Atomic Energy Commission. Method of preventing plutonium leakage. 3,486,979, 12-30-69, Cl. 176-67.
Wohlberg, Cornel: *See*—
Mc Guire, Joseph C.; and Wohlberg, Cornel,3,421,953.
Wohlert, Andrew M.: *See*—
Gray, Donald I.; Hutchings, John H.; and Wohlert, Andrew M.,3,486,088.
Wohlfarth, Ernst: *See*—
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,464,951.
Hittmair, Paul; Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,474,064.
Hittmair, Paul; Wohlfarth, Ernst; Nitsche, Siegfried; and Wick, Manfred,3,432,463.
Nitzsche, Siegfried; Wick, Manfred; and Wohlfarth, Ernst,3,440,207.
Wohlfeil, Jack A., to Giddings & Lewis, Inc. Method and apparatus for controlling motions of a drilling cutter or the like. 3,475,997, 11-4-69, Cl. 77-32.7
Wohlrab, Hans Christoph: *See*—
Balint, Andrew; and Wohlrab, Hans Christoph,3,476,477.
Wohlstrom, Robert C. Breakaway spinning top. 3,452,470, 7-1-69, Cl. 46-62.
Wohr, Otto. Double-tier garage. 3,437,217, 4-8-69, Cl. 214-16.1
Woidt, Jurgen: *See*—
Witte, Josef; Herrmann, Marion; Woidt, Jurgen; and Peters, Freimut,3,457,111.
Woitas, Andrew J. Hiller attachment for garden tractors. 3,477,514, 11-11-69, Cl. 172-42.
Woitke, Ernst: *See*—
Cramer, Christoph; Kluge, Gunter; and Woitke, Ernst,3,451,204.
Woitun, Eberhard; and Ohnacker, Gerhard, to Boehringer Ingelheim G.m.b.H.Thieno[3,2-*a*pyrimidines and salts thereof. 3,475,429, 10-28-69, Cl. 260-247.1
Woitzel, Heinz Otto Wilhelm, to Werner & Pfleiderer. Granulating device. 3,445,888, 5-27-69, Cl. 18-9.
Wojciak, Thaddeus J.: *See*—
Carkhuff, Donald W.; and Wojciak, Thaddeus J.,3,436,522.
Wojcik, Gerald Edward; and Lawson, William Manford, to Owens-Illinois, Inc. Method for producing a crystallized sintered glass article with a non-porous surface. 3,486,872, 12-30-69, Cl. 65-33.
Wojtanek, Steve W., to Sterling Systems Ltd. Electroplating barrel. 3,472,753, 10-14-69, Cl. 204-213.
Wojtowicz, John A.; and Zaslowsky, Joel A., to Olin Mathieson Chemical Corporation. Glycidyl oxetyl ethers. 3,463,789, 8-26-69, Cl. 260-333.
Wojtowicz, John A.: *See*—
Ardis, Alan E.; and Wojtowicz, John A.,3,446,819.
Vebra, Joseph; Wojtowicz, John A.; and Urs, Venkataramaraj S.,3,463,823.
Wolber, Jorg, to North American Philips Company, Inc. Dynamic pincushion correction with one transductor. 3,430,097, 2-25-69, Cl. 315-24.
Wolber, Jorg, to North American Philips Company, Inc. Circuit arrangement for frame correction. 3,433,998, 3-18-69, Cl. 315-27.
Wolber, Jorg, to U.S. Philips Corporation, mesne. Circuit arrangement for correcting the pin- cushion distortion upon deflection of an electron beam in a display tube. 3,444,422, 5-13-69, Cl. 315-24.
Wolber, Robert; and Hettich, Otto, to Gebruder Junghans Gesellschaft mit beschrankter Haftung. Time switch for an electric signal device for alarm clocks. 3,445,612, 5-20-69, Cl. 200-38.
Wolber, Robert: *See*—
Von Zeppelin, Kurt; Assmus, Friedrich Fritzof; and Wolber, Robert,3,444,747.
Wolcott, Charles E., to Whittaker Corporation. Spherical reflector with lens to convert to parabolic surface. 3,430,245, 2-25-69, Cl. 343-755.

Wolcott, Charles E.; and Filippi, Frank J., to Whittaker Corporation. Cutting machines and tools for composite materials. 3,430,390, 3-4-69, Cl. 51-59.
Wolcott, Henry O., to Optimation, Inc. Wide-band direct-current amplifier having series- connected output vacuum tubes. 3,428,912, 2-18-69, Cl. 330-74.
Wolcott, Henry O., to Optimation, Inc. Temperature compensated transformer circuit. 3,445,781, 5-20-69, Cl. 330-104.
Wolcott, John R. Aeordynamic lift vehicle. 3,451,645, 6-24-69, Cl. 244-12.
Wolczynski, Thaddeus: *See*—
Tarpinian, Haig D.; and Wolczynski, Thaddeus,3,485,089.
Wold, Allan I.: *See*—
Hoffman, David C.; Ender, Wyman K.; and Wold, Allan I.,3,461,685.
Woldt, Gunter: *See*—
Heymann, Kurt; Woldt, Gunter; and Grundel, Helga,3,454,416.
Wolf, Calvin N., to Ethyl Corporation. Polyoxymethylene-norbornylene copolymers. 3,432,471, 3-11-69, Cl. 260-67.
Wolf, Calvin N.; and McMahon, Joseph F., to Commercial Solvents Corporation. Process for preparing acrylic esters. 3,440,276, 4-22-69, Cl. 260-486.
Wolf, Charles B., to Westinghouse Electric Corporation. Insulating nonconsumable arc electrode. 3,476,861, 11-4-69, Cl. 13-18.
Wolf, Charles B.; and Kemeny, George A., to Westinghouse Electric Corporation. Multi-electrode arc heaters. 3,452,239, 6-24-69, Cl. 313-231.
Wolf, Charles B.; Kemeny, George A.; and Fey, Maurice G., to Westinghouse Electric Corporation. Arc furnace electrode assembly. 3,480,717, 11-25-69, Cl. 13-18.
Wolf, Charles B.: *See*—
Cromer, Charles F.; and Wolf, Charles B.,3,441,692.
Wolf, Donald A., to Huffman Manufacturing Company, The. Shift console for bicycle. 3,443,825, 5-13-69, Cl. 280-289.
Wolf, Edgar: *See*—
Marino, Frank C.; and Wolf, Edgar,3,449,720.
Pinto, Anthony; Cornish, Arthur H.; Leonard, Eugene; Wolf, Edgar; and Lau, Edward H.,3,441,713.
Wolf, Edgar; Lau, Edward H.; and Berezin, Evelyn, to Digitronics Corporation. Electrical assemblage. 3,461,552, 8-19-69, Cl. 29-626.
Wolf, Edgar; Marino, Francis C.; Simon, Herman; and Kummer, Daniel F., to Digitronics Corporation. Recording system for business machines. 3,472,448, 10-14-69, Cl. 235-61.
Wolf, Edgar; Worster, David E.; and Marino, Francis C., to Digitronics Corporation. Frequency to-voltage converter. 3,466,550, 9-9-69, Cl. 328-140.
Wolf, Edward M.; and Koll, Stanley J., to American Flange & Manufacturing Co., Inc. Cap crimping apparatus. 3,434,266, 3-25-69, Cl. 53-353.
Wolf, Erhard; and Schrinner, Elmar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 1,2-Dihydro-4-hydroxy-quinazolino -3-oxides. 3,481,928, 12-2-69, Cl. 260-240.9
Wolf, Erich A.: *See*—
Heimann, Walter; Maus, Hans R.; and Wolf, Erich A.,3,449,580.
Wolf, Frank E. Amusement and educational toy. 3,477,166, 11-11-69, Cl. 46-1.
Wolf, Gerhard Dieter: *See*—
Radlmann, Eduard; Wolf, Gerhard Dieter; Wieden, Horst; and Nischk, Gunther,3,481,885.
Wolf, Gottlieb, to Sulzer Brothers Limited. Supercharged internal combustion piston engine. 3,473,322, 10-21-69, Cl. 60-13.
Wolf, Heinz: *See*—
Hahn, Werner; Planert, Wolfgang; Schulze, Heinz; and Wolf, Heinz,3,421,421.
Wolf, Herbert Otto, to Du Pont de Nemours, E. I., and Company. Continuous methylenedianiline process. 3,476,806, 11-4-69, Cl. 260-570.
Wolf, Herbert S.: *See*—
Adams, Victor J., Jr.; Goldberg, Lloyd W.; and Wolf, Herbert S.,3,462,954.
Wolf, Herman B., to Bouligny, R. H., Inc. Electrical system including capacitors. 3,457,459, 7-22-69, Cl. 317-12.
Wolf, Herman B. Capacitor bank surge protection device. 3,467,888, 9-16-69, Cl. 317-12.
Wolf, Hermann, to Holstein & Kappert Maschinenfabrik 'Phonix' GmbH. Apparatus for filling bottles or the like. 3,463,203, 8-26-69, Cl. 141-39.
Wolf, Irving William; and Jaecklin, Andre A., to Ampex Corporation. Magnetic thin film shift register. 3,427,603, 2-11-69, Cl. 340-174.
Wolf, Irving W.: *See*—
Raillard, Heinz; and Wolf, Irving W.,3,439,349.
Wolf, Irving W., to General Electric Company. Method of fabricating thin films. 3,433,721, 3-18-69, Cl. 204-38.
Wolf, James M., to Johnson Service Company. Cavity resonator with mode discriminating means. 3,425,006, 1-28-69, Cl. 333-83.
Wolf, Karl: *See*—
Arendt, Alfred; Nagele, Erwin; and Wolf, Karl,3,485,226.
Wolf, Karlheinz; Haus, Arthur; Mager, Theodor; Hornle, Reinhold; and Bechlars, Franz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of pigment composition. 3,458,804, 7-29-69, Cl. 106-308.
Wolf, Lloyd J. Transmission clutch. 3,425,527, 2-4-69, Cl. 192-48.6
Wolf, Lloyd J. Trailer steering arrangement. 3,430,975, 3-4-69, Cl. 280-103.
Wolf, Lloyd J. Axle caster-reversing means. 3,447,813, 6-3-69, Cl. 280-80.
Wolf, Margery S.; and Beispel, Robert, to Extek, Inc., mesne. Method and apparatus for contact printing film. 3,468,606, 9-23-69, Cl. 355-91.
Wolf, Martin: *See*—
Stahle, Helmut; Koppe, Herbert; Zeile, Karl; Wolf, Martin; and Hoefke, Wolfgang,3,462,433.
Wolf, Marvin L., to Cincinnati Milling Machine Co., The. Hydraulic pump with variable chamber. 3,482,521, 12-9-69, Cl. 103-38.
Wolf, Milton; and Diebold, James L., to American Home Products Corporation. 2-Cyano-3-(3-pyridazylamino)alkenoic acid esters. 3,471,494, 10-7-69, Cl. 260-250.
Wolf, Milton; and Greek, Francis J., to American Home Products Corporation. Derivatives of carbazole-9-glyoxylic acids. 3,445,475, 5-20-69, Cl. 260-294.3
Wolf, Milton; and Mascitti, Albert A., to American Home Products Corporation. Spiro(indoline-3,2'-thiazolidine)-2-one and derivatives. 3,458,525, 7-29-69, Cl. 260-306.7
Wolf, Milton; and Sellstedt, John H., to American Home Products Corporation. 2-Substituted-4H-1,3-benzothiazin-4-one derivatives. 3,470,168, 9-30-69, Cl. 260-243.
Wolf, Murray, to Tri-Wall Containers, Inc. Fire-retardant coating. 3,475,199, 10-28-69, Cl. 117-92.
Wolf, Nicholas L. Method of connecting a terminal to a printed circuit panel. 3,445,929, 5-27-69, Cl. 29-625.
Wolf, Otto: *See*—
Hasel, Heinz; and Wolf, Otto,3,461,602.
Wolf, Otto; and Weller, Otto, to Hofliger & Karg. Package. 3,429,426, 2-25-69, Cl. 206-42.
Wolf, Paul A.; and Prince, Allen K., to Dow Chemical Company, The. Fats protected against rancidity. 3,443,970, 5-13-69, Cl. 99-163.
Wolf, Paul B. Silent alarm clock. 3,455,102, 7-15-69, Cl. 58-19.
Wolf, Raymond J. Battery terminal connector. 3,457,542, 7-22-69, Cl. 339-89.
Wolf, Robert A.: *See*—
Loeschner, Anthony; and Wolf, Robert A.,3,485,500.
Wolf, Robert C., to Pressure Products Industries, Inc., mesne. Accumulators. 3,454,050, 7-8-69, Cl. 138-31.
Wolf, Rudolph J., Jr.: *See*—
Brennan, William H.; and Wolf, Rudolph J., Jr.,3,481,189.
Wolf, Theodore L., to Dyson, Jos., & Sons, Inc. Hold-down fixture. 3,454,971, 7-15-69, Cl. 10-107.
Wolf, Tobin, to Gilbert, A. C., Company, The. Programmed musical instrument. 3,420,135, 1-7-69, Cl. 84-478.
Wolf, Tobin. Miniature ringing and talking telephone. 3,422,566, 1-21-69, Cl. 46-33.
Wolf, Tobin, to Western Publishing Company, Inc., mesne. Crayon merchandising display box and container. 3,429,427, 2-25-69, Cl. 206-45.
Wolf, Tobin. Drawing toy. 3,444,623, 5-20-69, Cl. 33-27.
Wolf, Tobin. Movable doll eye including crossed slots carrying rotation causing means. 3,482,350, 12-9-69, Cl. 46-169.
Wolf, Walter A.; and Corn, Prentice R., to Switches, Incorporated. Momentary contact switches for control of accessory circuits. 3,485,974, 12-23-69, Cl. 200-61.57
Wolf, Walter: *See*—
Esslinger, Paul; Winter, Heinrich; and Wolf, Walter,3,445,920.
Wolf, Wilhelm. Shoulder rests for stringed instruments. 3,479,916, 11-25-69, Cl. 84-280.
Woif, William B. Steering structure for vehicles. 3,455,572, 7-15-69, Cl. 280-99.
Wolf, William D., to Monsanto Company. Container wall structure. 3,471,075, 10-7-69, Cl. 229-1.5
Wolf, William D.; and Mottus, Edward H., to Monsanto Company. Method of making a transparent laminate which selectively transmits and reflects radiation over extended spectral ranges. 3,429,733, 2-25-69, Cl. 117-33.3
Wolf, William F.; and Kosiorek, Raymond, to Hercules Incorporated, mesne. Crystallizable enamels for glass-ceramics. 3,428,466, 2-18-69, Cl. 106-48.
Wolf, William J., Jr.: *See*—
Burton, Herbert O.; and McRae, Lorin P., 3,421,147.
Wolf, William J., Jr., to Bell Telephone Laboratories, Incorporated. Anticoincidence circuit. 3,462,613, 8-19-69, Cl. 307-216.
Wolf, William J., Jr.: *See*—
McRae, Lorin P.; Watts, Robert N.; and Wolf, William J., Jr.,3,471,830.
Wolfanger, Curt R.: *See*—
Southard, James S.; and Wolfanger, Curt R.,3,424,850.
Wolfe, Baron C. Torque responsive linear actuator. 3,424,058, 1-28-69, Cl. 91-105.

Wolfe, Denis G.; Genbauffe, Francis S.; and Eicher, Gerald H., to Robertshaw Controls Company. Electrical thermostat and parts therefor or the like. 3,469,779, 9-30-69, Cl. 236-15.
Wolfe, George, Jr.: *See—*
Garland, William J.; Hassencahl, Lloyd J.; Lenhart, Donald D.; and Wolfe, George, Jr.,3,431,392.
Wolfe, James Richard, Jr., to Du Pont de Nemours, E. I., and Company. Mineral-filled hydrocarbon copolymer composition containing an organosilicon compound and process of preparing same. 3,425,983, 2-4-69, Cl. 260-41.5
Wolfe, Kenneth R., to Du Pont de Nemours, E. I., and Company. Transition fittings. 3,476,408, 11-4-69, Cl. 285-21.
Wolfe, Norman G.: *See—*
Shimp, David A.; McWhorter, Wayne F.; and Wolfe, Norman G.,3,432,440.
Wolfe, Paul G., to Philco-Ford Corporation. Noise suppression circuit. 3,443,029, 5-6-69, Cl. 178-7.3
Wolfe, Peter A., to Bell Telephone Laboratories, Incorporated. Tunable raman laser. 3,435,373, 3-25-69, Cl. 331-94.5
Wolfe, Ramon E.: *See—*
King, Claude F.; Martin, Norman M.; Mellott, Robert N.; and Wolfe, Ramon E.,3,487,369.
Wolfe, Robert J.: *See—*
Scidmore, Wright H.; and Wolfe, Robert J.,3,464,764.
Wolfe, Robert W., to United States of America, Health, Education and Welfare. Totally implanted artificial heart power system utilizing a rechargeable thermal energy source. 3,434,162, 3-25-69, Cl. 3-1.
Wolfe, Russell J. Hospital tray for medicament cups and associated cards. 3,442,378, 5-6-69, Cl. 206-72.
Wolfe, Wade, Jr., to Olin Mathieson Chemical Corporation. Corrugated tubing. 3,450,193, 6-17-69, Cl. 165-1.
Wolfe, Walter W.; and Hofteig, Haldor J. Animal feeder. 3,429,299, 2-25-69, Cl. 119-56.
Wolfe, Wayne F.; Miller, Alwin M.; and Miller, Roland, to Hunt Foods and Industries, Inc. Palletizing and depalletizing equipment. 3,442,401, 5-6-69, Cl. 214-6.
Wolfe, William A.: *See—*
Lewis, Wilfrid B.; and Wolfe, William A.,3,470,408.
Wolfelsperger, Robert O.: *See—*
Young, William E.; Pinto, Patrick J.; and Wolfelsperger, Robert O.,3,484,855.
Wolfensperger, Adolf, to Rockwell Manufacturing Company. Lbricated ball valve having seating rings with preformed matching seating surfaces. 3,424,190, 1-28-69, Cl. 137-246.15
Wolfensperger, Adolph, to Rockwell Manufacturing Company. Method of making seat ring for plug valve. 3,478,403, 11-18-69, Cl. 29-157.
Wolfersberger, Charles R., Jr. Index strip holder. 3,438,143, 4-15-69, Cl. 40-23.
Wolfes, Wolfang; Renckhoff, Gustav; and Huelsmann, Hans-Leo, to Chemische Werke Witten GmbH. Process for the preparation of polyamides in finely grained form. 3,459,714, 8-5-69, Cl. 260-78.
Wolfes, Wolfgang; and Renckhoff, Gustav, to Chemische Werke Witten G.m.b.H. Process for the preparation of mixed polyamides in finely grained form. 3,442,869, 5-6-69, Cl. 260-78.
Wolff & Munier, Inc.: *See—*
Bourquin, Paul A., 3,478,667.
Wolff, Charles Harry: *See—*
Brown, David Trent; and Wolff, Charles Harry,3,439,331.
Wolff, Elmer A., Jr.: *See—*
Cornelison, Boyd; Jones, Morton E.; Lineback, James T.; Wolff, Elmer A., Jr.; Barcus, Samuel W., Jr.; Horak, Frank A.; and Ince, Norman S.,3,434,828.
Wolff, Hanns H., to United States of America, Navy. Apparent target motion control. 3,420,953, 1-7-69, Cl. 178-69.5
Wolff, Hanns H., to United States of America, Navy. Electronic synthesizer. 3,479,454, 11-18-69, Cl. 178-6.8
Wolff, Heinz, to Otto, C. Dr., & Comp. G.m.b.H. Self-sealing door for horizontal coke ovens utilizing fluid pressure equilizing cylinder-piston means. 3,448,014, 6-3-69, Cl. 202-248.
Wolff, Ivan A.; and Olds, David W., to United States of America, Agriculture. Levoglucosan production by pyrolysis of pretreated starches. 3,478,012, 11-11-69, Cl. 260-209.
Wolff, Jay R.: *See—*
Schorum, Stanley W.; and Wolff, Jay R.,3,474,441.
Wolff, Joachim, to Bremshey & Co. Work support, more particularly for household purposes. 3,448,913, 6-10-69, Cl. 229-14.
Wolff, Justus; and Messing, Bernd, to Hahn, Dr. Carl KG. Method for manufacturing tampons. 3,422,496, 1-21-69, Cl. 19-144.5
Wolff, Norman: *See—*
Barmeier, Harold J., Jr.; and Wolff, Norman,3,445,758.
Mueller, Werner J.; and Wolff, Norman,3,476,995.
Wolff, Otto E., to Polaroid Corporation. Photographic flashgun with divided reflector and flashbulb ejecting means. 3,479,497, 11-18-69, Cl. 240-1.3
Wolff, Otto E.: *See—*
Land, Edwin H.; and Wolff, Otto E.,3,479,184.
Wolff, Otto; Asmus, Alexander; Schomburg, Willi; and Schmidt, Horst, to Siemens Aktiengesellschaft. Combined specimen airlock and ray deflecting means for corpuscular ray device. 3,474,246, 10-21-69, Cl. 250-49.5
Wolff, Per; and Kaaber, Svend Henning, to Johns-Manville Corporation. Polymerisation process. 3,440,219, 4-22-69, Cl. 260-63.
Wolff, Peter A., to Bell Telephone Laboratories, Incorporated. Scanning laser. 3,448,405, 6-3-69, Cl. 331-9004.5
Wolff, Robert A., to Admiral Corporation. Voltage regulator circuit. 3,430,059, 2-25-69, Cl. 307-66.
Wolff, Robert A., to Admiral Corporation. Audio amplifier circuit. 3,433,894, 3-18-69, Cl. 178-5.8
Wolff, Robert A., to Admiral Corporation. Transistorized AGC system. 3,454,721, 7-8-69, Cl. 178-7.5
Wolff, Robert A.: *See—*
Corrigan, James D.; Bowers, Lester T.; Gilmour, Richard C.; and Wolff, Robert A.,3,436,521.
Wolfgang, Lozure G.; Carlo, Donald R.; and Clayton, Robert H., to International Telephone and Telegraph Corporation. Electron multiplier. 3,436,590, 4-1-69, Cl. 315-11.
Wolfgang, Morton H. Elapsed time indicating mechanism. 3,440,369, 4-22-69, Cl. 200-38.
Wolfhugel, Andre Edouard: *See—*
Burnier, Pierre Henri; and Wolfhugel, Andre Edouard,3,471,726.
Wolfmeyer, Howard J.: *See—*
Schoch, Thomas J.; Stella, Donald F.; and Wolfmeyer, Howard J.,3,446,628.
Wolfner, William F., to Arvin Industries, Inc. Magnetic tape deck with cartridge-holding slide to accommodate different size cartridges. 3,482,839, 12-9-69, Cl. 274-4.
Wolfner, William: *See—*
Magida, Nathan H.; Lopasic, Alexander Z.; and Wolfner, William,3,425,008.
Wolford, Dale E., to Myers, F. E., & Bro., Co., The. Granular distributor. 3,443,763, 5-13-69, Cl. 239-666.
Wolford, Dale E., to Myers, F. E., & Bro. Co., The. Blower device. 3,446,424, 5-27-69, Cl. 230-114.
Wolford, Ronald J., to Fabri-Tek Incorporated. Magnetic memory apparatus. 3,453,608, 7-1-69, Cl. 340-174.
Wolford, Wallace W.: *See—*
Ninneman, Lawrence D.; and Wolford, Wallace W.,3,468,219.
Wolfram, Adolf E., to General Electric Company. Ultrahigh frequency oscillator for a television tuner. 3,427,544, 2-11-69, Cl. 325-453.
Wolfram, Karl-Heinz, 1/2 to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Means for fitting endless flat belts on drives at fixed distances apart. 3,424,019, 1-28-69, Cl. 74-230.4
Wolfram, Roland: *See—*
Bittorf, Hannjorg; Denk, Hans; and Wolfram, Roland,3,483,418.
Wolfram, Roland, to Siemens Aktiengesellschaft. Varying inner diameter collector electrode for an electron beam tube, particularly high powered travelling-wave tubes. 3,421,036, 1-7-69, Cl. 313-89.
Wolfrum, Gerhard; and Wunderlich, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Monoazo dyestuffs. 3,467,644, 9-16-69, Cl. 260-158.
Wolfrum, Gerhard; and Wunderlich, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Thiazoleazo hydroxy-acenaphthene dyestuffs. 3,483,181, 12-9-69, Cl. 260-158.
Wolfrum, Gerhard: *See—*
Hoffmann, Albrecht; and Wolfrum, Gerhard,3,462,408.
Wunderlich, Hermann; and Wolfrum, Gerhard,3,423,392.
Wolfrum, Gunther Carl Maximilian Eduard; and Enzlin, Theodoor Henri, to U.S. Philips Corporation. Planar transistors and circuits including such transistors. 3,482,150, 12-2-69, Cl. 317-234.
Wolfrum, William M. Holder for fish hooks and the like. 3,430,379, 3-4-69, Cl. 43-57.5
Wolfson, Lawrence S.: *See—*
Taylor, Herbert E.; Pearl, David R.; and Wolfson, Lawrence S.,3,435,578.
Wolfson, Stanley W. Drop dispensing means. 3,426,811, 2-11-69, Cl. 141-234.
Wolicki, Jerry M., to Personalized Equipment, Inc. Protective mouthpiece. 3,457,916, 7-29-69, Cl. 128-136.
Wolinski, Leon Edward, to Du Pont de Nemours, E. I., and Company. Mixture of aqueous emulsions. 3,467,611, 9-16-69, Cl. 260-29.6
Wolk, Ronald H.: *See—*
Weber, Carl L.; and Wolk, Ronald H.,3,475,134.
Wolkenhauer, Carl. Devices for removing impurities from fluids. 3,483,984, 12-16-69, Cl. 210-168.
Wolkoff, Hal N.: *See—*
Hershberg, Emanuel B.; and Wolkoff, Hal N.,3,424,329.
Wolkstein, Herbert J., to United States of America, mesne. Shaped-loss attenuator for equalizing the gain of a traveling wave tube amplifier. 3,440,555, 4-22-69, Cl. 330-43.
Wollam, Carl Arlen, to Aluminium Laboratories Limited. Coil separator. 3,447,227, 6-3-69, Cl. 29-239.

Wollar, Burnell J., to E N M Company. Counter. 3,470,361, 9-30-69, Cl. 235-92.
Wollard Aircraft Equipment, Inc.: *See—*
Riggles, William M., Jr., 3,422,477.
Seipos, Andrew G., 3,462,784.
Seipos, Andrew G., 3,462,785.
Seipos, Andrew G., 3,462,787.
Wollard, Donald L. Channel stern power boat. 3,469,557, 9-30-69, Cl. 115-39.
Wollenhaupt, Jakob, to Maecker, Kurt. Control cam arrangement. 3,455,181, 7-15-69, Cl. 74-568.
Wollenhaupt, Jakob, to Maecker, Kurt. Grate groove-field. 3,460,403, 8-12-69, Cl. 74-568.
Wollensak, John C.; and Zaweski Edward F., to Ethyl Corporation. Hydroxyphenyl-hydroxyphenyl dithiocarbamates and their use as antioxidants. 3,462,368, 8-19-69, Cl. 252-46.7
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M., to Ethyl Corporation. Method of defoliating plants with organomercurials. 3,433,618, 3-18-69, Cl. 71-70.
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M., to Ethyl Corporation. (2-Methoxyethyl) mercuri acetate as a herbicide. 3,442,638, 5-6-69, Cl. 71-97.
Wollensak, John C.: *See—*
Coffield, Thomas H.; and Wollensak, John C.,3,471,557.
Wolley, Elden D., to Westinghouse Electric Corporation. Process for diffusing gold into semiconductors material. 3,440,113, 4-22-69, Cl. 148-187.
Wolley, Elden D., to Westinghouse Electric Corporation. Processing semiconductor materials. 3,484,854, 12-16-69, Cl. 148-187.
Wolley, Elden D., to Westinghouse Electric Corporation. Thyristor having improved operating characteristics at high temperature. 3,487,276, 12-30-69, Cl. 317-235.
Wollman, Henry Thomas, to Du Pont de Nemours, E. I., and Company. Process and apparatus for cleaning webs utilizing a sonic air blast. 3,420,710, 1-7-69, Cl. 134-1.
Wollman, Herbert: *See—*
Walker, Burt; Wollman, Herbert; and Chrouch, Robert C.,3,463,925.
Wollmann, Ernest; and Morgenbesser, Wilhelm, to Semperit Osterreichisch-Amerikanische Gummiwerke Aktiengesellschaft. Drum drier. 3,426,443, 2-11-69, Cl. 34-109.
Wollmar, Dick J.: *See—*
Squitieri, Vincent; and Wollmar, Dick J.,3,483,074.
Wollner, Johannes; and Engelhardt, Friedrich, to Rheinpreussen Aktiengesellschaft fur Bergbau und Chemie. Process for the continuous manufacture of methyl isopropenyl ketone in the liquid phase. 3,422,148, 1-14-69, Cl. 260-593.
Wollrab, Friedrich; and Decroly, Pierre, to Solvay & Cie. Stabilized chlorinated polyvinyl chloride compositions containing a polyepoxide and an alkyl phenol. 3,463,832, 8-26-69, Cl. 260-837.
Wollrab, Friedrich; and Verschaeve, Rene, to Solvay & Cie. Plasticized and stabilized chlorinated vinyl polymer compositions. 3,454,511, 7-8-69, Cl. 260-23.
Wolniak, Stanley C., to Illinois Lock Company. Pop handle lock. 3,438,227, 4-15-69, Cl. 70-208.
Wolniak, Stanley C.: *See—*
Gray, Raymond K.; and Wolniak, Stanley C.,3,438,484.
Wolniewicz, Erwin: *See—*
Martinola, Friedrich; Siegers, Gunter; and Wolniewicz, Erwin,3,458,436.
Woloch, David S. Handgrip operated safety mechanism for handguns. 3,422,559, 1-21-69, Cl. 42-66.
Wolownik, Stephen, to Abbott Laboratories. N-alkylated piperidines. 3,432,508, 3-11-69, Cl. 260-293.2
Wolsh, Bernard B. Air-injector means for air-lift water pumps for removing scum or sludge from sewage treatment settling tanks. 3,444,821, 5-20-69, Cl. 103-263.
Wolske, Dean L.: *See—*
Monyette, Donald C.; and Wolske, Dean L.,3,433,544.
Wolstoncroft, Richard L., to Union Carbide Corporation. Polish formulation. 3,429,842, 2-25-69, Cl. 260-28.5
Wolt, John: *See—*
Theimer, Ernst T.; Westbrook, John James, III; Wolt, John; and Quinn, Alton Dewitt,3,449,407.
Woltche, Walter, to Schneider, Jos., & Co. High-speed photographic or cinematographic Gaussian dual objective. 3,485,549, 12-23-69, Cl. 350-176.
Wolter, Donald R.: *See—*
Jones, Kenneth R.; Burant, Leonard J.; and Wolter, Donald R.,3,451,855.
Wolters, Clemens Anton. Weighing and slicing apparatus. 3,452,833, 7-1-69, Cl. 177-164.
Wolters, Gerard C., to General Electric Company. Push-pull oscillator and indicating means for a stereo magnetic tape recorder. 3,428,759, 2-18-69, Cl. 179-100.2
Wolters, Jakob: *See—*
Lentzen, Paul; and Wolters, Jakob,3,460,858.
Wolters, Richard H., to General Motors Corporation. Retractable pin lint filter. 3,455,456, 7-15-69, Cl. 210-143.
Wolverine Brass Works: *See—*
Van Wingen, Peter M., 3,425,440.
Wolverine Toy Company: *See—*
Warrix, John Tyler, 3,472,248.
Wolverine World Wide, Inc.: *See—*
Burch, Paul F., 3,424,217.
Burch, Paul F., 3,472,499.
Marchello, John L., 3,457,563.
Wolverine-Pentronix, Inc.: *See—*
Vinson, Paul, 3,469,283.
Wolverton, Kenneth H., to Ametek, Inc. Door latch with notched cam. 3,443,407, 5-13-69, Cl. 68-143.
Wolverton, Kenneth H., to Ametek, Inc. Reciprocal door latch for laundry washing machine. 3,480,315, 11-25-69, Cl. 292-175.
Wolverton, Kenneth H.; and Hornback, Robert H., to Ametek, Inc. Washing machine with fluid injection through openings in drum. 3,443,406, 5-13-69, Cl. 68-58.
Wolverton, Marcine P.: *See—*
Ross, Henry S.; and Wolverton, Marcine P.,3,430,959.
Wolz, Hermann: *See—*
Hess, Kurt; Meckbach, Heinrich; Brandt, Karl; and Wolz, Hermann,3,467,536.
Wolz, Rudolph G.: *See—*
Mindell, Marvin I.; Heikkila, Andrew E.; Harrison, Henry; and Wolz, Rudolph G.,3,477,008.
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G.,3,420,464.
Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G.,3,476,475.
Woma-Apparatebau Wolfgang Maasberg & Co. G.m.b.H.: *See—*
Maasberg, Wolfgang; and Sprakel, Karl, 3,424,386.
Maasberg, Wolfgang; and Heinrich, Willi, 3,427,763.
Maasberg, Wolfgang, 3,447,188.
Womack, Charles P.: *See—*
Christian, Hugh S.; Lowe, Dale R.; Ulrick, Charles J.; and Womack, Charles P.,3,465,101.
Womack, Karl K., to International Business Machines Corporation. Program mode switching circuit. 3,440,612, 4-22-69, Cl. 340-172.5
Womble, Monroe E., Jr., to United States of America, Army, mesne. Breakwire signal conditioner. 3,426,217, 2-4-69, Cl. 307-231.
Won-Door Corporation, The: *See—*
Smart Jay A., 3,447,584.
Smart, Jay A., 3,481,388.
Wonder Door Holdings (Proprietary) Limited: *See—*
Eigenmann, Gustav A. A.; and Grant, Rixwill S., 3,486,272.
Grant, Rixwill S., 3,474,569.
Wonder Products Company: *See—*
Koller, Edward J.; Pierce, Thomas J.; and Polk, Andrew W., Jr., 3,423,085.
Wondolowski, Lawrence: *See—*
Gibbons, John P.; and Wondolowski, Lawrence,3,450,690.
Wonell, Harry; and LaFleche, Oakley A., to Howell Industries, Inc. Adjustable vehicle seat mounting. 3,469,812, 9-30-69, Cl. 248-430.
Wong, Bartlett; and Burke, Harold H., to Martin-Marietta Corporation. Electromechanical force feel system for aircraft control stick. 3,463,423, 8-26-69, Cl. 244-83.
Wong, Frank; Carpenter, John Cline; and Sanford, Robert Clark, to Babcock Electronics Corporation. Signal evaluation systems. 3,440,656, 4-22-69, Cl. 343-121.
Wong, Harold Y., to Lockheed Aircraft Corporation. Thin film magnetometer circuit. 3,484,683, 12-16-69, Cl. 324-43.
Wong, Howard F.; Liddell, Donald W.; and Vollmer, William F., Jr., to United States of America, Navy. Coded data translation system. 3,421,151, 1-7-69, Cl. 340-172.5
Wong, James: *See—*
Fairbanks, Daniel F.; Larson, Warren L.; Randall, Robert N.; and Wong, James,3,476,615.
Wong, Lip Fou: *See—*
Boice, Elvin G.; and Wong, Lip Fou,3,429,169.
Wong, Robert Y.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,448,273.
Sullivan, Philip W.; and Wong, Robert,3,449,281.
Wong, Robert, to Owens-Corning Fiberglas Corporation. High strength fibrous glass. 3,473,950, 10-21-69, Cl. 117-66.
Wong, Sam H., to North American Rockwell Corporation. Centerfed travelling wave array having a squinted aperture. 3,430,247, 2-25-69, Cl. 343-771.
Wonn, Quinby E., to General Motors Corporation. Transmission control. 3,448,767, 6-10-69, Cl. 137-595.
Wonsch, Lawrence L.Child's toy. 3,484,979, 12-23-69, Cl. 43-20.
Wonson, Roger C.: *See—*
Brown, William C.; George, Roscoe H.; Heenan, Neil I.; and Wonson, Roger C.,3,434,678.
Wonson, Roger C., to Raytheon Company. Piezojunction-controlled multivibrator circuit. 3,473,046, 10-14-69, Cl. 307-308.
Wontrobski, Charles E.: *See—*
Wu, Kuang-Wei G.; and Wontrobski, Charles E.,3,440,487.

Wonus, Dale Wilson, to Budd Company, The. Method for casting separate annular castings. 3,429,364, 2-25-69, Cl. 164-108.
Woo, James J.: *See—*
Sampson, Jay B.; and Woo, James J.,3,453,567.
Woo, Paul W., to International Business Machines Corporation. Error correction by assumption of erroneous bit position. 3,449,718, 6-10-69, Cl. 340-146.1
Woock, Herbert J. Automatic temperature control. 3,469,780, 9-30-69, Cl. 236-15.
Woock, Herbert J. Method of preparing, maintaining and controlling the supply and consistency of hardfacing slurry. 3,479,016, 11-18-69, Cl. 259-149.
Wood, Adrian D.: *See—*
Randolph, John E.; and Wood, Adrian D.,3,461,413.
Wood, Bertie B. J.: *See—*
Adamek, Stephen; and Wood, Bertie B. J.,3,427,285.
Adamek, Stephen; and Wood, Bertie B. J.,3,439,062.
Wood, Bruce V. Impact type crusher. 3,474,974, 10-28-69, Cl. 241-275.
Wood, Burl T., to Consolidated Olive Growers. Dispensing apparatus delivering articles to raised stationary article support. 3,422,990, 1-21-69, Cl. 221-192.
Wood, Charles L., Jr., to Aluminum Company of America. Integrated coping assemblies. 3,477,190, 11-11-69, Cl. 52-718.
Wood, Charles P., Jr., to Midwest Research & Development Corporation. Two-stage evaporative condenser. 3,435,631, 4-1-69, Cl. 62-305.
Wood, Charles P., Jr., to Midwest Research & Development Corporation. Self-supporting inflatable shelter. 3,457,684, 7-29-69, Cl. 52-2.
Wood, Charles P., Jr. Liquid level control device for refrigeration systems. 3,461,907, 8-19-69, Cl. 137-386.
Wood, Charles; Kamath, G Sanjiv; and Neyhart, James H., to Xerox Corporation. Photosensitive element. 3,469,978, 9-30-69, Cl. 96-1.5
Wood, Clifton E.: *See—*
Cole, William C.; Paul, Frank B.; and Wood, Clifton E.,3,459,598.
Wood Conversion Company: *See—*
Bronstien, Edward L., Jr.; Akerson, David W.; Gaffney, Bernard J.; and Fisher, Richard A., 3,429,767.
Kodaras, Michael J., 3,429,250.
Wood, Darwin L.: *See—*
Kolb, Ernest D.; Laudise, Robert A.; Spencer, Edward G.; and Wood, Darwin L.,3,485,759.
Remeika, Joseph P.; and Wood, Darwin L.,3,447,851.
Wood, David H.: *See—*
Ramsey, William J.; Jepson, James O.; and Wood, David H.,3,442,642.
Wood, David Hugh, Jr.; Gibney, Grant Omer; and Smith, Richard, to Helme Products, Inc. Process for preparing expanded cornmeal extrusions. 3,476,567, 11-4-69, Cl. 99-82.
Wood, Derek Harold: *See—*
Taylor, George Wright; and Wood, Derek Harold,3,422,059.
Taylor, George Wright; and Wood, Derek Harold,3,450,802.
Wood, Derek, to Bell Aerospace Corporation. Apparatus for detecting slidable member seizure and automatically disabling the same. 3,426,792, 2-11-69, Cl. 137-596.12
Wood, Donald B.: *See—*
Dumas, Raymond E.; Williams, Harry L., Jr.; and Wood, Donald B.,3,450,569.
Wood, Edward H., to Densmore, D. J., Company, The. Sash control mechanism. 3,440,683, 4-29-69, Cl. 16-197.
Wood, Edward H., to Dinsmore, D. J., Company. Overhead window balance. 3,475,864, 11-4-69, Cl. 49-445.
Wood, Edward L.: *See—*
Aske, Charles B., Jr.; and Wood, Edward L.,3,436,123.
Wood, Elbert D., to Beloit Corporation. Pressure vessel inlet valve. 3,438,608, 4-15-69, Cl. 251-147.
Wood Electric Corporation: *See—*
Brackett, Lawrenc W., Sr., 3,421,129.
Brackett, Lawrence W., Jr., 3,454,918.
Brackett, Lawrence W., Sr., 3,469,222.
Wood, Ernest C., 33 1/3% each to Samuels, Peter B., and LeVaux, Rene G. Hemostatic clip and applicator. 3,439,522, 4-22-69, Cl. 72-410.
Wood, Ernest C., 1/3 each to Samuels, Peter B., and LeVaux, Rene G. Hemostatic clip constructions. 3,439,523, 4-22-69, Cl. 72-410.
Wood, Fenton M.: *See—*
Beaver, Ruby C.; and Wood, Fenton M.,3,460,028.
Wood, Fenton M., to American Machine & Foundry Company. Magnetic inspection method and apparatus using resilient magnetizing means and resilient sensors. 3,449,662, 6-10-69, Cl. 324-37.
Wood, Fenton M., to American Machine & Foundry Company. Pipeline pigging apparatus. 3,483,734, 12-16-69, Cl. 73-40.5
Wood, Fenton M., to American Machine & Foundry Company. Apparatus and method to detect defects masked by cyclic magnetic patterns in ferromagnetic pipe. 3,484,682, 12-16-69, Cl. 324-37.
Wood, Fenton M.; and Walters, William T., to American Machine & Foundry Company. Magnetometer inspection apparatus for ferromagnetic objects. 3,443,211, 5-6-69, Cl. 324-37.
Wood, Fenton M.; Walters, William T.; Rogers, Philip A.; and Proctor, Noel B., to American Machine & Foundry Company. Non-destructive tubular goods inspection apparatus. 3,437,810, 4-8-69, Cl. 250-83.3
Proctor, Noel B.; and Wood, Fenton M.,3,460,152.
Wood, Francis E. Rod-holding rack. 3,421,632, 1-14-69, Cl. 211-60.
Wood, Francis Harold, to Elliott Brothers (London) Limited. Visual indicators. 3,430,605, 3-4-69, Cl. 116-129.
Wood, Francis H., to Elliott Brothers (London) Limited. Reserve bearing restraint and transfer alarm. 3,452,349, 6-24-69, Cl. 340-269.
Wood, Frederick C.; Dhondt, Roland O.; and Cheadle, George D., to Union Oil Company of California. Activation of hydrofining-hydrocracking catalyst systems. 3,458,433, 7-29-69, Cl. 208-89.
Wood, Garfield A., Jr. Electric drive for bicycles. 3,431,994, 3-11-69, Cl. 180-31.
Wood, Garfield A., Jr. Boat racing game. 3,479,031, 11-18-69, Cl. 273-86.
Wood, George W.: *See—*
Casey, Harry B.; Woods, John G.; and Wood, George W.,3,484,734.
Wood, George W., to TRW Inc. Miniature, multiturn trimmer potentiometer. 3,469,225, 9-23-69, Cl. 338-163.
Wood, Godfrey Allen: *See—*
Conner, Charles Irvine; Howard, Bernard Victor; Walker, Donald Ferguson; and Wood, Godfrey Allen,3,424,059.
Wood, Harold R.: *See—*
Cook, Kenneth A.; and Wood, Harold R.,3,452,983.
Wood, Harry N., to Armstrong Cork Company. Photocell inspection device for glassware. 3,481,467, 12-2-69, Cl. 209-111.7
Wood, Herbert Holden, to Canadian Industries Limited. Method and apparatus for the measurement of change in dielectric loss including periodically and continuously varying the frequency of the resonant detector circuit. 3,464,005, 8-26-69, Cl. 324-57.
Wood Industries, Inc.: *See—*
Graham, Robert C., 3,448,720.
Neal, Frank; and Snyder, Robert A., 3,460,823.
Neal, Frank; and Snyder, Robert A., 3,477,709.
Wood, Irwin Boyden; Rohrbacher, George Henri, Jr.; and Bambury, Ronald Edward, to American Cyanamid Company. Methods for the control and prevention of helminths with phenylbenzothiazolium compounds. 3,444,299, 5-13-69, Cl. 424-270.
Wood, Jack E.; and Liverance, Howard G. Gear reduction unit for a boat trailer. 3,474,922, 10-28-69, Cl. 214-85.5
Wood, Jack: *See—*
Hackmann, Johannes Th.; and Wood, Jack,3,449,361.
Wood, James K.: *See—*
Shaw, Richard; and Wood, James K.,3,455,648.
Wood, James M., Jr.: *See—*
Whaley, Thomas P.; and Wood, James M., Jr.,3,450,558.
Wood, James P. Float-type mercury switch with stabilizing means. 3,440,375, 4-22-69, Cl. 200--084
Wood, Jay J. Reversible edge bit structure for blade of earth working implement. 3,469,331, 9-30-69, Cl. 37-141.
Wood, John Charles T.: *See—*
Creighton, Stephen Mark; and Wood, John Charles T.,3,468,943.
Wood, John, Company: *See—*
Anderson, Arne H., 3,464,715.
Mankin, Paul A., 3,426,947.
Nelson, Lowell F.; and Hanson, Louis G., 3,461,808.
Wood, John H.: *See—*
Groover, Edwin F.; Reid, Guy T.; Wood, John H.; Pharr, Roger H.; and Mize, Charles A.,3,474,490.
Wood, John Michael: *See—*
Ford, John Frederick; and Wood, John Michael,3,484,373.
Wood, John W.: *See—*
Riley, Robert H., Jr.; and Wood, John W.,3,485,307.
Wood, John W. High efficiency class C amplifier. 3,430,157, 2-25-69, Cl. 330-192.
Wood, John W., to Black and Decker Manufacturing Company, The. Sonic tool with means for reducing noise level. 3,481,411, 12-2-69, Cl. 173-117.
Ball, Robert George; Perry, Gerald Horace; and Wood, John,3,431,433.
Wood, Judson A.: *See—*
Saeman, Walter C.; and Wood, Judson A.,3,451,767.
Wood, Leo N. Ultrasonic inspection apparatus. 3,455,150, 7-15-69, Cl. 73-71.5
Wood, Leonard: *See—*
Hurlock, Ronald James; Wood, Leonard; and Sharma, Vijay Ratna,3,483,239.
Wood, Lockett E.: *See—*
Thompson, Moody C., Jr.; and Wood, Lockett E.,3,437,820.
Thompson, Moody C., Jr.; and Wood, Lockett E.,3,437,821.
Wood, Loren E., to Black, Swalls & Bryson, Inc. Safety pressure relief device. 3,484,817, 12-16-69, Cl. 220-89.

Wood, Louis L.: *See—*
Backus, Andrew C.; and Wood, Louis L.,3,453,300.
Matthews, John C.; and Wood, Louis L.,3,474,464.
Wood, Neltson P. Receptacle holder. 3,469,709, 9-30-69, Cl. 211-82.
Wood Newspaper Machinery Corporation: *See—*
Neal, Frank, 3,440,900.
Wood, Palmer R.: *See—*
Davis, Maurice C.; and Wood, Palmer R.,3,439,694.
Wood, Prentice J., to Mead Corporation, The. Rotary locking mechanism for wrapper-type cartons. 3,430,413, 3-4-69, Cl. 53-48.
Wood Processes, Oregon Ltd.: *See—*
Wheeler, Robert G., 3,474,706.
Wood, Rebecca H.: *See—*
Woolf, Cyril; and Wood, Rebecca H.,3,458,636.
Wood, Remsen V. Diffraction grating instrument dials. 3,463,118, 8-26-69, Cl. 116-129.
Wood, Richard A., to International Business Machines Corporation. Wear-resistant titanium and titanium alloys and method for producing same. 3,471,342, 10-7-69, Cl. 148-20.3
Wood, Richard A., to Elcemco, Inc. Sorting apparatus. 3,482,686, 12-9-69, Cl. 209-73.
Wood, Richard P., to Owens-Corning Fiberglas Corporation. Coating dies. 3,473,512, 10-21-69, Cl. 118-125.
Wood, Robert E. Gauge for measuring the thickness of blankets on printing rollers. 3,432,933, 3-18-69, Cl. 33-172.
Wood, Robert F., to General Electric Company. High voltage and width stabilization. 3,427,496, 2-11-69, Cl. 315-27.
Wood, Robert L.: *See—*
Frederickson, Lyle R.; Rovelsky, Leon A.; and Wood, Robert L.,3,432,752.
Wood, Robert N., to Inland Container Corporation. Multi-cell bulk container. 3,425,615, 2-4-69, Cl. 229-15.
Wood, Robert N., to Inland Container Corporation. Shortening container device. 3,443,971, 5-13-69, Cl. 99-171.
Wood, Robert S., to Plessey Company Limited, The. Intermeshing gears, more particularly in gear pumps. 3,469,531, 9-30-69, Cl. 103-126.
Wood, Robert S.: *See—*
Turner, Horace G.; and Wood, Robert S.,3,450,052.
Wood, Ross C. Ground anchor. 3,425,174, 2-4-69, Cl. 52-162.
Wood, Stanley David, to Du Pont de Nemours, E. I., and Company. Process for melt extrusion of polyamide material. 3,459,840, 8-5-69, Cl. 264-37.
Wood, Stanley J.: *See—*
Gertler, Eugene I.; and Wood, Stanley J.,3,484,744.
Wood, Theodore H., to United Aircraft Corporation. Rotating reel for electrically coupling to a rotating member in a vacuum chamber. 3,483,351, 12-9-69, Cl. 219-121.
Wood, Thomas F.; and Achuff, Nancy E., to Givaudan Corporation, mesne. Method of destroying weeds with substituted tetralins. 3,442,640, 5-6-69, Cl. 71-124.
Wood Treating Chemical Company: *See—*
Augustin, Verlynn O., 3,478,790.
Wood, Walter W.: *See—*
Hatch, Donald Monroe; and Wood, Walter W.,3,436,292.
Wood, William A., Jr., to Duplan Corporation, The. Textile tape and method of forming same. 3,429,219, 2-25-69, Cl. 87-2.
Wood, William H., to Harris-Intertype Corporation. Water transfer member. 3,455,003, 7-15-69, Cl. 29-132.
Wood, William H.; and Poston, Melvin H., to Westinghouse Electric Corporation. High resolution patterns for optical masks and methods for their fabrication. 3,443,915, 5-13-69, Cl. 29-194.
Wood, William L., to American Sterilizer Company. Wall cabinet and water closet combination. 3,419,911, 1-7-69, Cl. 4-10.
Wood, William R., to Deere & Company. Crop conditioner attachment for a windrower. 3,422,606, 1-21-69, Cl. 56-1.
Wood, Zollie E.: *See—*
Venable, Charles R., Jr.; Wood, Zollie E.; and Cawi, Vernon A.,3,484,212.
Wood-Ridge Chemical Corporation: *See—*
Cadmus, Eugene L., 3,424,552.
Woodall Industries, Incorporated: *See—*
Greig, James W.; and Anderson, David P., 3,462,330.
Woodard, Daniel P.: *See—*
Langmack, Robert M.; Phelps, James W.; and Woodard, Daniel P.,3,454,707.
Woodard, Joseph H., to Woodard, Lee L., Sons, Inc. Method and apparatus for heat sealing seat cushion covers. 3,451,075, 6-24-69, Cl. 5-360.
Woodard, Kenneth B.: *See—*
Ross, Robert R.; and Woodard, Kenneth B.,3,422,743.
Woodard, Lee L., Sons, Inc.: *See—*
Woodard, Joseph H., 3,451,075.
Woodard, Robert, 1/2 to Terzian, Berj A., and Lucas, William D. Emergency signal for automotive vehicles. 3,430,374, 3-4-69, Cl. 40-129.
Woodard, Toma A.; Davis, John R.; and Gordon, Edward, to UGC Industries, Inc. Electronic analog trace computer. 3,486,011, 12-23-69, Cl. 235-151.
Woodberry, Paul T.; and Kortzky, Herman, to International Business Machines Corporation. Method and composition for the electrolytic etching of beryllium-copper alloys. 3,445,355, 5-20-69, Cl. 204-141.
Woodbridge, Joseph E., to American Hospital Supply Corporation, mesne. Nitrogen determination catalyst and method of use. 3,467,499, 9-16-69, Cl. 23-230.
Woodbury, Eric J.; and Morse, James H., to Hughes Aircraft Company. Thermally controlled solid-state laser. 3,471,801, 10-7-69, Cl. 331-94.5
Woodbury, Eric J.; and Sooy, Walter R., to Hughes Aircraft Company. Laser using Porro prism end reflectors. 3,464,026, 8-26-69, Cl. 331-94.5
Woodbury, William White, to Ampex Corporation. Random access memory system. 3,444,540, 5-13-69, Cl. 340-174.1
Woodcock, Donald Bernard; and Williams, Edward, to G.K.N. Machinery Limited. Rolling of rod stock. 3,470,722, 10-7-69, Cl. 72-245.
Woodcock, Douglas George, to Pickering, Edgar, (Blackburn) Limited. Reed dents and knife mounting means on a tufting machine. 3,440,983, 4-29-69, Cl. 112-79.
Woodcock, Ray E.: *See—*
Ardito, Victor P.; Bishop, Harry L.; and Woodcock, Ray E.,3,432,288.
Woodcock, Richard F.: *See—*
Snitzer, Elias; Young, Robert W.; and Woodcock, Richard F.,3,422,025.
Woode, Alan David: *See—*
Craven, George Frederick; Heeks, John Stuart; and Woode, Alan David,3,422,364.
Woodell, Rudolph, to Du Pont de Nemours, E. I., and Company. Process for flash spinning polypropylene plexifilament. 3,467,744, 9-16-69, Cl. 264-205.
Woodfill, William L., to Brunswick Corporation. Combined impact damping and power lift mechanism for an outboard propulsion unit assembly. 3,434,448, 3-25-69, Cl. 115-41.
Woodfill, William L.: *See—*
North, Irving W.; and Woodfill, William L.,3,447,564.
Woodford, Joseph C., to Woodford Manufacturing Company. Self-draining sill cock and vacuum breaker. 3,424,189, 1-28-69, Cl. 137-218.
Woodford Manufacturing Company: *See—*
Noland, Wayne B., 3,480,027.
Woodford, Joseph C., 3,424,189.
Yoon, Young Z.; and Noland, Wayne B., 3,480,980.
Woodford, Philip R.: *See—*
Peterson, Robert R.; Schmidt, Warren E.; and Woodford, Philip R.,3,467,353.
Woodhall, Edwin S., to Goodyear Tire & Rubber Company, The. Tire building machine. 3,467,567, 9-16-69, Cl. 156-415.
Woodham, Samuel R.; Bradley, Eugene F.; and Collins, John D., to International Paper Company. Bent blade clay coating. 3,442,684, 5-6-69, Cl. 117-64.
Woodhams, Raymond T., to Dunlop Company Limited, The. Process for the vulcanization of polymers. 3,474,077, 10-21-69, Cl. 260-79.5
Woodhead, Frederick A., to Simon-Carves Limited. Apparatus for cooling hot waste gases. 3,428,117, 2-18-69, Cl. 165-105.
Woodhead, Harry Stanley: *See—*
Myatt, Edward Ronald; Loveland, Ernest Frederick; and Woodhead, Harry Stanley,3,460,077.
Woodhead, Harry Stanley, to International Standard Electric Corporation. Reed relay employing flux collectors and a pivoted armature. 3,440,583, 4-22-69, Cl. 335-154.
Woodhead, Harry Stanley, to International Standard Electric Corporation. Miniature diaphragm relay. 3,467,923, 9-16-69, Cl. 335-196.
Woodhead, Harry Stanley, to International Standard Electric Corporation. Bistable diaphragm relay. 3,470,505, 9-30-69, Cl. 335-83.
Woodhead Manufacturing Company Limited: *See—*
Duckett, William A., 3,446,318.
Duckett, William A., 3,447,644.
Woodhead, Robert Harry: *See—*
Brooks, James; Heap, Kenneth Thomas Duncan; and Woodhead, Robert Harry,3,462,800.
Woodhead, Robert Henry, to T.M.M. (Research) Limited. Automatic doffing and donning device for textile sliver-coilers. 3,453,693, 7-8-69, Cl. 19-159.
Woodhour, Allen F.; and Metzgar, Don P., to Merck & Co., Inc. Process for growing mycoplasma pneumonial organisms. 3,485,721, 12-23-69, Cl. 195-80.
Woodhouse, Dal C.: *See—*
Richardson, Joseph W.; and Woodhouse, Dal C.,3,480,022.
Woodhouse, Dennis; and Harbach, Arthur John, to Steetley Refractory Brick Company Limited, The. Refractory compositions. 3,475,188, 10-28-69, Cl. 106-58.
Wooding, Maurice; and Dreibholz, Albert Erich, Jr., to Dreibholz & Company Limited. Pellet machine die. 3,447,486, 6-3-69, Cl. 107-14.

Woodings-Verona Tool Works: *See—*
Holstein, Frederick W., 3,451,684.
Woodland, Norman J.: *See—*
Pike, Charles A.; and Woodland, Norman J.,3,470,320.
Woodland, Richard G.; and Hall, Myron C., to Hooker Chemical Corporation. Apparatus for production and recovery of hydrogen halides. 3,445,192, 5-20-69, Cl. 23-277.
Woodle, Billy Ted, to American Manufacturing Company of Texas. Cold extrusion method. 3,449,936, 6-17-69, Cl. 72-254.
Woodle Corporation: *See—*
Howell, David S., 3,449,847.
Howell, David S., 3,449,848.
Woodle, Robert A.; and Barron, Joseph M., to Texaco Inc. Lube oil refining process. 3,458,432, 7-29-69, Cl. 208-36.
Woodley, Frank John; and Eyles, William Geoffrey, to International Computers and Tabulators Limited. Circuit controlling the total time to reach maximum current value in an inductive load. 3,469,150, 9-23-69, Cl. 317-123.
Woodling, George V. Axial fixation positional means for a pair of tapered roller bearings. 3,455,617, 7-15-69, Cl. 308-207.
Woodling, George V. Actuating mechanism for a rotary device. 3,474,964, 10-28-69, Cl. 236-101.
Woodling, Larry R., to General Motors Corporation. Sealing technique for composite ferrous-copper base alloy capsules for semiconductor device. 3,422,320, 1-14-69, Cl. 317-234.
Woodman, Charles K., to Compo Industries, Inc. Adhesive-applying apparatus. 3,465,711, 9-9-69, Cl. 118-5.
Woodman Company, Inc., The: *See—*
Henry, Nelson R.; and Hobart, Jack, 3,465,979.
Tanner, Jack B., 3,486,424.
White, Homer S., 3,443,651.
Woodman Company, The: *See—*
Henry, Nelson R., 3,473,286.
Woodman, Howard C.; and Harter, Lynn J., to Thrall Car Manufacturing Company. Boxcar construction. 3,478,701, 11-18-69, Cl. 105-404.
Woodmansee, Wayne E., to Boeing Company, The. Liquid crystal compositions. 3,441,513, 4-29-69, Cl. 252-408.
Woodmansee, Wayne E.: *See—*
Waterman, Gary L.; and Woodmansee, Wayne E.,3,439,525.
Woodnutt, John, to Delmatic Limited. Electric lighting installation for a building. 3,483,424, 12-9-69, Cl. 315-117.
Woodring, Robert W.: *See—*
Panek, Bruno J.; and Woodring, Robert W.,3,422,612.
Woodring, Robert W., to International Harvester Company. Belt tightener with stretch indicating means. 3,422,692, 1-21-69, Cl. 74-242.1
Woodring, Robert W.; Kowalik, John J.; and Panek, Bruno J., to International Harvester Company. Flail knife mounting. 3,423,920, 1-28-69, Cl. 56-294.
Woodrow, Harold E.; and Hill, William J., to Morgan Construction Company. Coil remover. 3,439,882, 4-22-69, Cl. 242-81.
Woodruff, George M.; Morrison, Fred T.; and Balaban, Ostap, to General Foods Corporation. Envelope forming apparatus and method. 3,438,310, 4-15-69, Cl. 93-63.
Woodruff, Oscar G. Water powered trimming device. 3,423,911, 1-28-69, Cl. 56-25.4
Woodruff, Richard E.: *See—*
Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George,3,450,543.
Badran, Adnan M.; Woodruff, Richard E.; and Wilson, Lorenzo George,3,450,544.
Woodruff, Stanley Ray, 1/3 to Christmas, Clarence A., and Rudiak, George, and Publow, Harry F. Receptacle and opening means therefor. 3,472,415, 10-14-69, Cl. 220-48.
Woods, Billy L. Geodesic dome roof element. 3,486,278, 12-30-69, Cl. 52-81.
Woods, Carl M., to Dow Corning Corporation. Preparation of siloxane block copolymers. 3,436,439, 4-1-69, Cl. 260-825.
Woods, Clarence W., Jr.: *See—*
Lindt, Stanley L.; and Woods, Clarence W., Jr.,3,438,122.
Woods, Edmund E., to Westinghouse Electric Corporation. Electrical bushing assembly. 3,422,392, 1-14-69, Cl. 339-129.
Woods, Edmund E., to Westinghouse Electric Corporation. High voltage cable terminal. 3,474,393, 10-21-69, Cl. 339-143.
Woods, Francis J. Packaged food display and heating device. 3,456,579, 7-22-69, Cl. 99-341.
Woods, George H.: *See—*
Immermann, Milton; Vanderhyde, Harold J.; and Woods, George H.,3,454,152.
Woods, Henry B.: *See—*
Galle, Edward M.; and Woods, Henry B.,3,441,094.
Woods Hole Oceanographic Institution: *See—*
Sharp, Arnold G.; Shultz, William S.; and Sullivan, James R., 3,433,202.
Woods, John G.: *See—*
Casey, Harry B.; Woods, John G.; and Wood, George W.,3,484,734.
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R., to Atlantic Richfield Company. Pressure injection mold. 3,421,730, 1-14-69, Cl. 249-142.
Woods, John P.; Dransfield, Clifford D.; and Barta, Henry R., to Atlantic Richfield Company. Electrical coil bobbin. 3,423,711, 1-21-69, Cl. 336-192.
Woods, John T.: *See—*
Peters, Harold P.; and Woods, John T.,3,461,610.
Woods, Littleton A.: *See—*
Peurifoy, Paul V.; and Woods, Littleton A.,3,475,129.
Woods, Michael K., to Larson Industries, Inc., mesne. Billiard table with bracing means. 3,441,273, 4-29-69, Cl. 273-11.
Woods of Colchester Limited: *See—*
Daly, Brian Bowman; Baker, Alex Gerard James; and Anderson, Joseph Percival, 3,433,145.
Woods, Otho C.: *See—*
Schubach, Uluse E.; Woods, Otho C.; Grutsch, Patrick C.; and Eberhardt, Jack L.,3,426,559.
Woods, Richard M. X-ray film mount. 3,431,667, 3-11-69, Cl. 40-158.
Woods, Richards E.: *See—*
Whitney, John A.; and Woods, Richards E.,3,475,742.
Woods, Robert L.: *See—*
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C.,3,474,977.
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; Woods, Robert L.; and Cantella, Richard C.,3,475,068.
Woods, Roger M.; and Moul, David R., to Corillium Corporation. Chromium plating process. 3,442,777, 5-6-69, Cl. 204-51.
Woods, Roger M.; and Moul, David R., to Corillium Corporation. Chromium plating process. 3,454,474, 7-8-69, Cl. 204-51.
Woods, Warren W.: *See—*
Council, Bill E.; and Woods, Warren W.,3,438,896.
Lippoldt, Richard F.; and Woods, Warren W.,3,427,194.
Woods, Warren W.; and Shock, D'Arcy A., to Continental Oil Company. Encapsulated propellants and method for their preparation from fluorinated monomers using radiation. 3,441,455, 4-29-69, Cl. 149-8.
Woods, Weightstill W., to Boeing Company, The. Force transducer. 3,483,743, 12-16-69, Cl. 73-141.
Woods, Weightstill W.; Martin, Dale L.; and Marshall, James K., to Boeing Company, The. Polarization pyrometer. 3,462,224, 8-19-69, Cl. 356-47.
Woods, William C., to Johnson, Gordon, Company, mesne. Method for killing poultry. 3,475,785, 11-4-69, Cl. 17-52.
Woodside, John R., to International Business Machines Corporation. Method for producing collated printed books. 3,427,655, 2-11-69, Cl. 270-18.
Woodside, John R., to Pageprint Systems, Inc. Sheet dispensing apparatus. 3,486,639, 12-30-69, Cl. 214-8.5
Woodside, Laurence M., to Albany Felt Company. Stretch-guide mechanism for continuous moving belts. 3,463,023, 8-26-69, Cl. 74-241.
Woodside, Roy; and Zamzow, Charles A., deceased0 (by Zamzow, Charles A., Mrs.; Community Survivor). Perlite Producers, Inc, mesne Foamed synthetic polymeric plant growth medium containing an inorganic filler and microorganisms. 3,472,644, 10-14-69, Cl. 71-1.
Woodson, Carl W., to General Electric Company. Fluidic frequency-to-analog circuit. 3,458,129, 7-29-69, Cl. 235-200.
Woodson, Leslie A.: *See—*
Chambers, Jack A.; and Woodson, Leslie A.,3,439,945.
Woodson, Millard L., to Shell Oil Company. Rotatable drilling platform. 3,474,629, 10-28-69, Cl. 61-46.5
Woodson, Robert A., to Singer-General Precision, Inc. Interferometric apparatus. 3,471,239, 10-7-69, Cl. 356-110.
Woodstream Corporation: *See—*
Allen, Paul E., 3,462,195.
Lehn, John U., 3,426,471.
Woolworth, Richard G.; and Allen, Paul, 3,438,342.
Woolworth, Richard G., 3,481,066.
Wood,Thomas Edward: *See—*
Haddon, Alistair Peter William; Gwillim, David T.; and Wood,Thomas Edward,3,420,425.
Woodward, Allen G. Universal grinding and milling head. 3,486,415, 12-30-69, Cl. 90-11.62
Woodward, Anthony: *See—*
Hofton, James; Vickers, William Henry; and Woodward, Anthony,3,428,608.
Woodward, Charles D., to Texaco Inc. Hydrocarbon production by secondary recovery. 3,472,318, 10-14-69, Cl. 166-245.
Woodward, Charles D.: *See—*
Ten Brink, Karl C.; and Woodward, Charles D.,3,435,672.
Woodward, Cyril H. T. Hydraulic circuit for plural cylinders. 3,464,317, 9-2-69, Cl. 91-186.
Woodward, Cyril Horace Tracey. Movable platform with lift and turnover mechanism. 3,426,927, 2-11-69, Cl. 214-652.
Woodward, Elmer Ralph, to Wiz Corporation. Vehicle brake operator. 3,479,927, 11-25-69, Cl. 92-128.

Woodward, Foster R., to Taylor-Winfield Corporation, The. Side edge trimming of welded strip. 3,468,071, 9-23-69, Cl. 51-110.
Woodward, Fred E.: *See—*
Buc, Saul R.; and Woodward, Fred E.,3,443,013.
Woodward, Frederick W.: *See—*
McIntyre, Raymond David; and Woodward, Frederick W.,3,424,494.
Woodward, Gary F., to Ford Motor Company. Pulse generator for use with a speedometer cable. 3,458,741, 7-29-69, Cl. 310-155.
Woodward, Gary F., to Ford Motor Company. Reluctance pickup speed device for a speedometer cable. 3,482,130, 12-2-69, Cl. 310-155.
Woodward, George E.: *See—*
Swanson, Norman; Kirk, Richard O.; and Woodward, George E.,3,433,832.
Woodward, George H. Patient handling apparatus. 3,469,880, 9-30-69, Cl. 296-1.
Woodward Governor Company: *See—*
Barnes, Bernard B., 3,442,277.
Parker, George E., 3,469,397.
Plummer, Harland C., 3,426,777.
Woodward, Hyrum J., to United States of America, Agriculture. Holder for soil testing instrument. 3,464,732, 9-2-69, Cl. 294-19.
Woodward, Kenneth E.: *See—*
Mon, George; and Woodward, Kenneth E.,3,484,211.
Woodward, Mitchell J. Four-cycle internal combustion engine. 3,446,192, 5-27-69, Cl. 123-78.
Woodward, Robert Burns. Process for preparing novel intermediates useful for preparing 7-amino-cephalosporanic acid and derivatives thereof. 3,449,336, 6-10-69, Cl. 260-243.
Woodward, Robert Burns. Hydroxymethane carboxylic acid esters and process for their manufacture. 3,468,933, 9-23-69, Cl. 260-483.
Woodward, Robert Burns. Hydrazino-thiazolidines. 3,479,366, 11-18-69, Cl. 260-306.7
Woodward, Robert Burns. 2,2-Disubstituted 3-acyl-5α-azido-thiazolidine- 4-carboxylic acids and derivatives. 3,481,948, 12-2-69, Cl. 260-306.7
Woodward, Robert Burns. Azetidino [3,2-d] thiazolidines and process for their manufacture. 3,483,215, 12-9-69, Cl. 260-306.7
Woodward, Robert Burns. 2,2-Disubstituted 3-acyl-5-amino-thiazolidine-4- carboxylic acids. 3,483,216, 12-9-69, Cl. 260-306.7
Woodward, Thomas. Shear support device. 3,486,406, 12-30-69, Cl. 83-378.
Woodward, Wilmer C., to United States of America, Navy. Consumable infrared flare tow target. 3,458,197, 7-29-69, Cl. 273-105.3
Woodworth, N. A., Company: *See—*
Hohwart, George; and Toth, Paul, 3,423,098.
Hohwart, George, 3,455,567.
Hohwart, George, 3,459,433.
Hohwart, George; and Toth, Paul, 3,460,847.
Hohwart, George, 3,472,526.
Hohwart, George, 3,479,042.
Woodworth, William J.; and Hayden, Stanley P., to Inland Steel Company. Blast furnace shroud. 3,436,063, 4-1-69, Cl. 263-50.
Woody, George D. Decorator. 3,427,650, 2-11-69, Cl. 107-27.
Woody, Robert, to Dow Chemical Company, The. Fracturing apparatus. 3,473,714, 10-21-69, Cl. 225-97.
Woody, Robert, to Dow Chemical Company, The. Gear train and apparatus. 3,479,896, 11-25-69, Cl. 74-399.
Woofter, Cecil B. Combination wall and desk calendar stand. 3,482,346, 12-9-69, Cl. 40-120.
Wool Bureau, Inc., The: *See—*
Krasny, John F.; and Oliva, Edward C., 3,480,383.
Wool O Company, The:*See—*
Mitchell, Robert G.; and Egert, Francis A., 3,421,406.
Woolam, Frank J., to Valid Data Corporation. Mechanically simulating electronic signal chopper. 3,421,072, 1-7-69, Cl. 321-45.
Woolard, Thomas L.; and Rickard, Earl K., to Air Preheater Company, Inc., The. Tempering duct for rotary regenerative heat exchanger. 3,481,392, 12-2-69, Cl. 165-7.
Woolaway, Thomas P.: *See—*
O'Leary, John P.; Woolaway, Thomas P.; Reese, Richard S.; and Feuchtwanger, Joseph,3,451,536.
Woolcombers Limited: *See—*
Clark, Edward Watson; and Kitchen, Geoffrey F., 3,440,167.
Woolcott, Arthur John, to Wellworthy Limited. Method of casting pistons. 3,459,253, 8-5-69, Cl. 164-36.
Wooldridge, Gerald A.: *See—*
Fujioka, Richard T.; and Wooldridge, Gerald A.,3,443,571.
Wooldridge, Richard G.: *See—*
Nast, Thomas D.; and Wooldridge, Richard G.,3,445,285.
Wooler, Alan Metcalf: *See—*
Edwards, Harry; and Wooler, Alan Metcalf,3,453,168.
Woolery, Robert G.; and Dresher, William H., to Union Carbide Corporation. Reversible flocculation and redispersion of chrysotile asbestos. 3,421,975, 1-14-69, Cl. 162-3.
Woolf, Ashby M.: *See—*
Gardenhire, Lawrence W.; and Woolf, Ashby M.,3,478,266.
Woolf, Cyril: *See—*
Cunningham, William J.; and Woolf, Cyril,3,433,838.
Woolf, Cyril; and Gard, Gary Lee, to Allied Chemical Corporation. Fluorinated oxetanes. 3,448,121, 6-3-69, Cl. 260-333.
Woolf, Cyril; and Pierce, Arleen C., to Allied Chemical Corporation. Novel compounds and method for combating microorganisms. 3,474,164, 10-21-69, Cl. 424-279.
Woolf, Cyril; and Wood, Rebecca H., to Allied Chemical Corporation. Method for combating microorganisms. 3,458,636, 7-29-69, Cl. 424-278.
Lichstein, Bernard M.; and Woolf, Cyril,3,438,946.
Lichstein, Bernard M.; and Woolf, Cyril,3,440,285.
Lichstein, Bernard M.; and Woolf, Cyril,3,472,905.
Woolf, Irving. Advertising-display card. 3,422,555, 1-21-69, Cl. 40-10.
Woolf, Raymond F.: *See—*
Adams, Thomas E.; and Woolf, Raymond F.,3,448,663.
Woolfolk, Robert L., to Recognition Equipment, Incorporated. Data recording device and system. 3,460,118, 8-5-69, Cl. 340-174.1
Woolfridge, Alfred L.: *See—*
Koblin, Abraham; Woolfridge, Alfred L.; and Adams, John Q.,3,475,965.
Woolhouse, John T.: *See—*
Liston, Max D.; Beebe, Cedric H.; and Woolhouse, John T.,3,443,433.
Woolley, Lee A., to Scott & Fetzer Company, The, mesne. Method of securing a rivet contact in an aperture of an electrical element. 3,432,925, 3-18-69, Cl. 29-630.
Woolley, Lee A., to Scott & Fetzer Company, The, mesne. Sequential timer. 3,436,975, 4-8-69, Cl. 74-116.
Woolley, Lee A., to Scott & Fetzer Company, The, mesne. Motor construction. 3,452,228, 6-24-69, Cl. 310-83.
Woollons, David John: *See—*
Weaver, John Anthony; and Woollons, David John,3,439,353.
Woolman, Granville: *See—*
Brownell, Roy D.; and Woolman, Granville,3,463,335.
Woolman, Myrle T.: *See—*
Grace, Ernest Edward; and Woolman, Myrle T.,3,464,607.
Woolsey, Joseph W., to United States of America, Atomic Energy Commission. Method of changing gloves in a controlled environment box. 3,475,808, 11-4-69, Cl. 29-401.
Woolsey Marine Industries, Inc.: *See—*
Lasko, George A., 3,433,199.
Woolslayer, Joseph R.: *See—*
Jenkins, Cecil; and Woolslayer, Joseph R.,3,443,646.
Oltermann, John J.; Woolslayer, Joseph R.; and Jenkins, Cecil,3,435,571.
Woolworth, Richard G., to Woodstream Corporation. Fishing tackle box. 3,481,066, 12-2-69, Cl. 43-57.5
Woolworth, Richard G.; and Allen, Paul, to Woodstream Corporation. Material-handling pallet and improved pallet leg or support and load-distributing attachment therefor. 3,438,342, 4-15-69, Cl. 108-51.
Woor, Denis Frederick: *See—*
Greenwood, Thomas Eric; Woor, Denis Frederick; and Farnfield, Ronald Edward,3,455,349.
Woor, Denis Frederick; Stripp, Peter William; and Grantham, Max Edward, to Tecalemit (Engineering) Limited. Lubricating apparatus for vehicles. 3,456,761, 7-22-69, Cl. 184-7.
Wooster Brush Company, The: *See—*
Nicolay, Robert C., 3,484,795.
Wooster, George S., to Allied Chemical Corporation. Quick drying urethane coatings. 3,436,361, 4-1-69, Cl. 260-18.
Wooster, George S., to Allied Chemical Corporation. Gloss retaining urethane coating compositions. 3,458,459, 7-29-69, Cl. 260-21.
Wooster, George S.; and Kane, Aloysius J., to Allied Chemical Corporation. Process for curing an epoxy resin with an organic anhydride and pyridine activator and composition thereof. 3,440,216, 4-22-69, Cl. 260-47.
Wooten, Forrest L., to Trostel, Albert, & Sons Co. Apparatus for removing hides from vats. 3,459,015, 8-5-69, Cl. 69-32.
Wooten, Frank T., III, to Corning Glass Works. Temperature change measuring device. 3,453,887, 7-8-69, Cl. 73-362.
Wooten, Frank Thomas: *See—*
Sheng, Henry P.; and Wooten, Frank Thomas,3,473,510.
Wooton, Thomas C.; Mangold, William F.; and Davis, Warren L. Ozone generator. 3,442,788, 5-6-69, Cl. 204-317.
Wootton, Gerald R.: *See—*
Helterline, Leo L., Jr.; and Wootton, Gerald R.,3,451,210.
Wootton-Davies, James W.: *See—*
Smith, Harry; and Wootton-Davies, James W.,3,436,124.
Wopart, James F., Jr., to Singer-General Precision, Inc. Educational testing apparatus. 3,427,732, 2-18-69, Cl. 35-48.
Worcester, Francis J.; Shapiro, Michael D.; and Duda, James L., to United States of America, Navy. Rocket-type line-throwing apparatus. 3,468,214, 9-23-69, Cl. 89-1.8
Worcester, Gurdon S.: *See—*
Carey, Charles A., 3,468,615.
Worcester, Gurdon S. Seat and carry case. 3,422,938, 1-21-69, Cl. 190-8.

Worcester, Leslie E.; and Webster, Lewis P., to Diatran Pacific. Process for manufacturing welding devices for semi-conductors. 3,461,538, 8-19-69, Cl. 29-423.
Worchel, Gerald S.; and Reber, Robert L., to Bendix Corporation, The. Multi-emitter semiconductor device. 3,462,658, 8-19-69, Cl. 317-235.
Worden, Donald A., to Marotta Valve Corporation. Valve structure and controller operated thereby. 3,477,463, 11-11-69, Cl. 137-495.
Worden, Donald P.; and Abbott, Edward F., to Walker Manufacturing Company. Method of making an exhaust system conduit. 3,441,704, 4-29-69, Cl. 219-67.
Worden Leonard R.: *See—*
Todd, Paul H., Jr.; and Worden Leonard R.,3,451,821.
Work, Carl F.: *See—*
Miller, Meryl E.; Huddleston, Stanley R.; and Work, Carl F.,3,480,934.
Work, Edgar A., Jr.: *See—*
Blythe, Richard; and Work, Edgar A., Jr.,3,479,107.
Work, Elizabeth, to Twyford Laboratories Limited. Preparation of bacterial lipopolysaccharides. 3,438,862, 4-15-69, Cl. 195-31.
Work, Elizabeth; and Knox, Kenneth William, to Twyford Laboratories Limited. Preparation of phosphatidylethanolamine from E. coli. 3,438,861, 4-15-69, Cl. 195-29.
Work, Elizabeth; and Knox, Kenneth William, to Twyford Laboratories Limited. Preparation of bacterial lipopolysaccharides. 3,438,865, 4-15-69, Cl. 195-96.
Work, George A.: *See—*
Anderson, John Robert; and Work, George A.,3,465,522.
Working, Kenneth C. Anodizing process and additive for anodizing aluminum and its alloys. 3,434,943, 3-25-69, Cl. 204-58.
Working, Kenneth C. Agricultural soil conditioner. 3,473,255, 10-21-69, Cl. 47-58.
Workman, Clark S.: *See—*
Bechard, John J.; Dahl, Walter L.; Martin, James S.; Workman, Clark S.; and Sankey, David J.,3,445,951.
Workman, David E.: *See—*
Perkins, George D.; Workman, David E.; and Kneier, Joseph W.,3,437,389.
Workman, Donald P.: *See—*
Clark, Joe M.; and Workman, Donald P.,3,426,925.
Workman, Norma J., to Westinghouse Electric Corporation. Dryer with temperature varying air flow restriction plate. 3,475,831, 11-4-69, Cl. 34-82.
Workman, Norma J.: *See—*
Sims, Robert J.; and Workman, Norma J.,3,474,646.
Workman, Wesley R., to Minnesota Mining and Manufacturing Company. Reactive copying sheet and method of using. 3,446,648, 5-27-69, Cl. 117-36.8
Workman, Woodrow Irwin, to International Packings Corporation. High pressure seal. 3,477,731, 11-11-69, Cl. 277-58.
Works, John D.; White, Donald H.; and Campbell, Alan M., to AMW Corporation. Method and apparatus for forming metal parts. 3,453,932, 7-8-69, Cl. 90-11.
Works, Madden T., to ACF Industries, Incorporated. Fabricated plug for spherical plug valve. 3,463,450, 8-26-69, Cl. 251-309.
Works, Madden T.; and Tooley, Henry C., to ACF Industries, Incorporated. Valve. 3,486,734, 12-30-69, Cl. 251-285.
Worland, Arthur, to Fielden Electronics Limited. Capacity level switches. 3,461,352, 8-12-69, Cl. 317-146.
World Engines, Inc.: *See—*
Maloney, John P., 3,482,862.
World Golf Industries, Inc.: *See—*
Scholin, Harold W.; and Pedersen, Holger, 3,467,389.
World-Wide Electronics, Inc.: *See—*
Hill, James J., 3,456,162.
Worldsbest Industries, Inc.: *See—*
Injeski, Stanley G., 3,431,966.
Worley, Ronald C.: *See—*
Krueger, Curtiss C.; and Worley, Ronald C.,3,439,287.
Worman, Martin, to Ingersoll-Rand Company. Feed leg control device. 3,451,425, 6-24-69, Cl. 137-596.2
Worms, Karl-Heinz: *See—*
Kasperl, Herbert; Tischbirek, Gunther; and Worms, Karl-Heinz,3,463,737.
Wormsbecher, Roelof P.: *See—*
Wilcox, Clinton S.; and Wormsbecher, Roelof P.,3,441,731.
Wormser, Robert S., to Game-Time, Inc. Symmetrical shelter truss. 3,462,895, 8-26-69, Cl. 52-93.
Worner, Howard K., to Conzinc Riotinto of Australia Limited. Apparatus for the direct smelting of metallic ores. 3,463,472, 8-26-69, Cl. 266-11.
Worner, Howard Knox, to Conzinc Riotinto of Australia Limited. Apparatus for refining metals. 3,432,157, 3-11-69, Cl. 266-35.
Worner, Howard Knox, to Conzinc Riotinto of Australia Limited. Contnuous production of alpha plaster. 3,437,330, 4-8-69, Cl. 263-53.
Worobey, Walter, to Bell Telephone Laboratories, Incorporated. Thin film distributed RC network. 3,443,311, 5-13-69, Cl. 29-592.
Woroble, Joseph. Container-engaging end for powder dispensers. 3,433,390, 3-18-69, Cl. 222-83.5
Woroble, Joseph. High voltage test probe having balanced tandem-mounted series connected resistors. 3,452,277, 6-24-69, Cl. 324-72.5
Woronoff, Alexander M.: *See—*
Rudd, Milo O.; and Woronoff, Alexander M.,3,431,688.
Worrallo, Anthony Charles. Self-locking bracket and the like. 3,429,540, 2-25-69, Cl. 248-246.
Worrel, Calvin J., to International Lead Zinc Research Organization, Inc. Organolead cyanoguanidine compounds and a method for making them. 3,436,414, 4-1-69, Cl. 260-437.
Worrel, Calvin J., to Ethyl Corporation. Tetrakis-hydroxybenzyl phosphonium halides and the preparation thereof. 3,483,260, 12-9-69, Cl. 260-606.5
Worrel, Calvin J., to Ethyl Corporation. Process for making tetrathiophosphates. 3,487,131, 12-30-69, Cl. 260-981.
Worsfold, William R. Humidifier. 3,441,256, 4-29-69, Cl. 261-64.
Worsham, Charles H.; and Levine, Duane G., to Esso Research and Engineering Company. Process of automatically controlling fuel concentration in fuel cell. 3,425,873, 2-4-69, Cl. 136-86.
Worsham, Walter C.: *See—*
Timmons, William D., Jr.; and Worsham, Walter C.,3,481,136.
Worson, Lee, to Edoco Technical Products, Inc. Weakened plane joint former and seal. 3,469,510, 9-30-69, Cl. 94-18.
Worst, Harold J.: *See—*
Miller, Raphael W.; and Worst, Harold J.,3,431,628.
Worst, Joseph C., to General Electric Company. Pilot type valve. 3,439,896, 4-22-69, Cl. 251-38.
Worstell, Wayne C.: *See—*
Cousins, Richard C.; Cooley, Eugene A.; Worstell, Wayne C.; and Eaton, James L.,3,424,272.
Worster, David E.: *See—*
Wolf, Edgar; Worster, David E.; and Marino, Francis C.,3,466,550.
Worth, Donald Francis: *See—*
Elslager, Edward Faith; and Worth, Donald Francis,3,452,059.
Wortham Machinery Co.: *See—*
Grigsby, Ray, 3,455,476.
Worthen, Frederic P.: *See—*
Des Ormeaux, John A.; and Paradis, Joseph R., 3,468,269.
Worthen, James H.: *See—*
Connelly, Edward M.; and Worthen, James H.,3,441,911.
Worthen, John H., to Federal Products Corporation. Bore gage. 3,422,540, 1-21-69, Cl. 33-143.
Worthen, John H., to Federal Products Corporation. Centering means for a bore gage. 3,442,020, 5-6-69, Cl. 33-178.
Worthington Biochemical Corporation: *See—*
Teller, Joseph D., 3,440,142.
Worthington Corporation: *See—*
Andersen, Erik B., 3,461,686.
Aronson, David, 3,440,832.
Aronson, David, 3,478,530.
Bellmer, Friedrich O., 3,434,655.
Bellmer, Friedrich O., 3,434,656.
Berman, Merril; and Slaughter, John, 3,434,430.
Fichtner, James O., 3,465,816.
Foran, Nicholas A.; and Collingwood, James R., 3,483,854.
Japhet, Richard E., 3,454,079.
Whiting, Harold W., 3,480,201.
Worthington Foods, Inc.: *See—*
Knecht, Bernath L.; and Knecht, Bernath J., 3,428,102.
Worthington, George M. Multi-stage filter system for dry cleaning. 3,429,148, 2-25-69, Cl. 68-18.
Worthington, Peter L., to General Electric Company. Investment casting apparatus with a cushion around the shell mold. 3,478,815, 11-18-69, Cl. 164-361.
Worthington, Robert L.: *See—*
Thomas, Frank J.; and Worthington, Robert L.,3,431,557.
Worthington, Stanley W., to Wayne Engineering Corporation. Power line arrangement for a crane truck. 3,482,715, 12-9-69, Cl. 214-75.
Worthington-Simpson Limited: *See—*
Marsland, Jack Ronald; and Malloch, Alexander Stirling, 3,465,779.
Worthy, Robert M.: *See—*
Fuller, Richard H.; Tu, Ju C.; and Worthy, Robert M.,3,435,423.
Wortley, Stewart W. Positive displacement pump. 3,453,968, 7-8-69, Cl. 103-157.
Wortman, Donald E.; Norton, Barry W.; and Scheibe, Elias W., to General Motors Corporation. Hydraulic valve lifter. 3,450,228, 6-17-69, Cl. 184-6.
Wortman, Jimmie J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,432,730.
Wortso Corporation: *See—*
Janapol, Melvin N., 3,430,275.
Janapol, Melvin N., 3,456,271.

Wortz, Edward C.; and Aasen, Leiv B., to Garrett Corporation, The. Continuous flow inhalator mask with obturator means. 3,441,020, 4-29-69, Cl. 128-145.8
Wortzman, Donald, to International Business Machines Corporation. Record-reproduce circuit. 3,423,540, 1-21-69, Cl. 179-100.2
Worwag, Eberhard, to Mauz & Pfeiffer G.m.b.H. & Co., KG. Sweeper. 3,448,485, 6-10-69, Cl. 15-332.
Worwag, Hans Michael. Method of comminuting solid particles in liquids. 3,436,026, 4-1-69, Cl. 241-16.
Worz, Paul: *See*—
Zechnall, Richard; Issler, Jorg; Sohner, Gerhard; and Worz, Paul,3,463,134.
Wosegien, Bernd: *See*—
Pollinger, Hans; and Wosegien, Bernd,3,425,752.
Woserau, Otto; and Anderson, Harold N., to Bemis Company, Inc. Christmas tree loader apparatus improvements. 3,440,954, 4-29-69, Cl. 100-144.
Woskow, Marvin Z., to Petro-Tex Chemical Corporation. Preparation of ethylenically unsaturated hydrocarbons with low acetylenic content. 3,476,824, 11-4-69, Cl. 260-680.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., to Petro-Tex Chemical Corporation. Oxidative dehydrogenation using zinc or cadmium ferrite. 3,420,911, 1-7-69, Cl. 260-680.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., to Petro-Tex Chemical Corporation. Dehydrogenation process using manganese ferrite. 3,420,912, 1-7-69, Cl. 260-680.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., to Petro-Tex Chemical Corporation. Dehydrogenation process using cobalt or nickel ferrite. 3,428,703, 2-18-69, Cl. 260-680.
Woskow, Marvin Z.; Colling, Philip M.; and Karkalits, Olin C., Jr., to Petro-Tex Chemical Corporation. Dehydrogenation process using magnesium ferrite. 3,440,299, 4-22-69, Cl. 260-680.
Wossner, Felix, to Fichtel & Sachs A.G. Clutch actuating mechanism. 3,430,512, 3-4-69, Cl. 74-512.
Woster, George W., to Wilcox Electric Company, Inc. Stabilized transistor amplifier. 3,422,365, 1-14-69, Cl. 330-28.
Wostl, Wolfgang J., to Sinclair Research, Inc. Apparatus for continuously determining the adiabatic bulk modulus of a liquid within a pipeline. 3,477,277, 11-11-69, Cl. 73-53.
Wostl, Wolfgang J.; and Heintz, Joseph A., to Sinclair Research, Inc. Liquid level detector. 3,448,616, 6-10-69, Cl. 73-293.
Wosylus, Klaus Dieter, to Braun Aktiengesellschaft. System for generating nonperiodical electric sparks. 3,449,636, 6-10-69, Cl. 317-81.
Wottlin, William O.: *See*—
Adair, James C.; Baier, William E., Jr.; Gilmore, Ronald P.; and Wottlin, William O.,3,483,505.
Wouters, Albert Paul: *See*—
Van Engeland, Jozef Leonard; and Wouters, Albert Paul,3,453,046.
Wovcha, Sidney N., to United States Steel Corporation. Support for bars undergoing a flame- cutting operation. 3,432,160, 3-11-69, Cl. 269-287.
Wowk, Anatole, to M & T Chemicals Inc. Dihydroxy hydrocarbyl tin halides and the preparation thereof. 3,480,655, 11-25-69, Cl. 260-429.7
Woyce, Louis C., Jr., to West Virginia Pulp and Paper Company. Push-button card. 3,425,619, 2-4-69, Cl. 229-92.8
Woyton, Joseph T., to Reliance Electric and Engineering Company, The, mesne. Current null detector. 3,458,773, 7-29-69, Cl. 317-148.5
Woyton, Joseph: *See*—
Eggleston, David O.; and Woyton, Joseph,3,460,017.
Wozab, Joseph W.; and Wozab, Phyllis I. Disposable toothbrush. 3,458,268, 7-29-69, Cl. 401-261.
Wozab, Phyllis I.: *See*—
Wozab, Joseph W.; and Wozab, Phyllis I.,3,458,268.
Wozniak, John J.; and Jacques, Edward J. Golf putter. 3,430,963, 3-4-69, Cl. 273-164.
Wozniak, Theodore A.: *See*—
Spooner, Howard E.; and Wozniak, Theodore A.,3,451,836.
Wrangell, Lewis J., to Allis-Chalmers Manufacturing Company. Method of producing nickel powder. 3,458,407, 7-29-69, Cl. 204-10.
Wranosky, Donald D., to North American Rockwell Corporation. Closed loop feedback for machining. 3,483,795, 12-16-69, Cl. 90-13.5
Wrausmann, Richard C.; and Arentsen, William R., to ACF Industries, Incorporated. Carburetor flow testing apparatus. 3,452,590, 7-1-69, Cl. 73-118.
Wray, Dennis: *See*—
Goldberg, Alan August; and Wray, Dennis,3,459,697.
Wray, Edward, to Dunlop Company Limited, The. Disc segment cooling means. 3,459,284, 8-5-69, Cl. 188-264.
Wrege, Warren R., to General Signal Corporation. Initial wheel slip bypassing system. 3,469,091, 9-23-69, Cl. 246-167.
Wren Aircraft Corporation: *See*—
Morris, Albert E., Jr., 3,469,807.
Wren, Robert D., Jr. Engine fuel and transmission control. 3,486,594, 12-30-69, Cl. 192-62.
Wren, Robert Henry: *See*—
Lovelock, Leonard Robert; Way, Kenneth Richard; and Wren, Robert Henry,3,479,204.
Wrench, Robert F., to Corning Glass Works. Method of manufacturing cutting tools. 3,440,907, 4-29-69, Cl. 76-24.
Wrench, Robert F.: *See*—
Kalocsai, Bela O.; and Wrench, Robert F.,3,436,865.
Wrensch, Bernard E., to Stearns Electric Corporation. Combination clutch and brake. 3,438,471, 4-15-69, Cl. 192-18.
Wrensch, Bernard E., to Stearns Electric Corporation. Electromagnetic clutch with auxiliary clutch or brake independently energized. 3,446,322, 5-27-69, Cl. 192-18.
Wrenshall, Edward N., to Kerotest Manufacturing Corporation, mesne. Valve subjected to exterior moisture, as an underground gas distribution valve. 3,429,555, 2-25-69, Cl. 251-214.
'W' Ribbons Limited:*See*—
Wildi, Gerard C.; and Brand, Horace D., 3,463,202.
Wriedt, Alfred. Vehicle coupling. 3,446,365, 5-27-69, Cl. 213-78.
Wrigge, Friedrich Wilhelm; and Weckesser, Ernst, to Vereinigte Aluminium-Werke Aktiengesellschaft. Electrolytic cell cathode bottom with vertically inserted current conductor. 3,470,083, 9-30-69, Cl. 204-243.
Wright & Mc Gill Co.: *See*—
Sweeney, John M., 3,430,378.
Wright & McGill Co.: *See*—
Sweeney, John M., 3,430,886.
Wright, Achibald N.; and Feller, John R., to General Electric Company. Oxidation resistant high energy magnetic material. 3,480,553, 11-25-69, Cl. 252-62.54
Wright, Alan J., to Beckman Instruments, Inc. End terminations for variable resistance elements. 3,430,178, 2-25-69, Cl. 338-162.
Wright, Alfred G. Apparatus for performing scientific experiments. 3,483,986, 12-16-69, Cl. 210-198.
Wright, Alfred S. Implement for cleaning the walls of a swimming pool. 3,471,884, 10-14-69, Cl. 15-28.
Wright, Alistair William Holmes Lawson: *See*—
Whitelaw, Robert David MacGregor; and Wright, Alistair William Holmes Lawson,3,458,742.
Wright, Ansel J.; and Rasmussen, Robert F., to Master Addresser Company. Printing machine with improved master holding structure. 3,485,166, 12-23-69, Cl. 101-133.
Wright, Archibald N.; and Merrill, Richard C., to General Electric Company. Method of making a capacitor. 3,447,218, 6-3-69, Cl. 29-25.42
Wright, Arden B.: *See*—
Borenstein, David P.; and Wright, Arden B.,3,444,474.
Wright, Barry, Corporation: *See*—
Johnson, Kenneth W., 3,428,279.
Kahn, William M., 3,441,910.
Reach, Roy W.; and Shapiro, David, 3,438,011.
Wright, Benny B.: *See*—
White, Wayne E.; Munn, James M.; Gilliland, Joe E.; and Wright, Benny B.,3,463,605.
Wright, Charles D., to Westinghouse Electric Corporation. Apparatus for pressurizing air operated coffee brewer. 3,478,675, 11-18-69, Cl. 99-302.
Wright, Charles E. Method for packaging materials in flexible walled containers. 3,456,417, 7-22-69, Cl. 53-14.
Wright, Charles H.: *See*—
Desjardins, Stanley P.; and Wright, Charles H.,3,446,436.
Wright, Charles S. Variable resistors. 3,456,228, 7-15-69, Cl. 338-176.
Wright Components, Inc.: *See*—
Wright, William A., Jr., 3,462,116.
Wright, Dale W.: *See*—
Miles, Harry E., Jr.; and Wright, Dale W.,3,479,735.
Wright, Dale W., to Miles Machinery Company. Methods and apparatus for lapping workpieces. 3,461,617, 8-19-69, Cl. 51-121.
Wright, Donald E. Level. 3,456,354, 7-22-69, Cl. 33-211.
Wright, Donald E., to Tyco Laboratories, Inc., mesne. Volume measuring system. 3,486,374, 12-30-69, Cl. 73-149.
Wright, Donald F.: *See*—
Connor, William G.; Wright, Donald F.; and Dove, Douglas J. A.,3,438,562.
Wright, Donald L., to Locking Hinge & Hardware Manufacturing, Inc. Locking hinge. 3,448,486, 6-10-69, Cl. 16-128.
Wright, Donald R., to Dow Chemical Company, The. Preparation of cylindrical plastic structures. 3,442,992, 5-6-69, Cl. 264-45.
Wright, Donald R.: *See*—
Smith, Hubert S.; and Wright, Donald R.,3,443,276.
Smith, Hubert S., Jr.; and Wright, Donald R.,3,423,791.
Smith, Hubert Stacey; Wright, Donald R.; and Chisholm, Douglas S.,3,458,609.
Wright, E. J., Central Limited: *See*—
Brown, Alan E., 3,450,270.
Wright, E. T., & Co., Inc.: *See*—
Bernier, Louis E.; and Giblin, James P., 3,486,249.
Gammons, Robert T., 3,480,979.
Wright, Eric F.: *See*—
Furlong, Owen D.; Rowe, Alan C.; and Wright, Eric F.,3,444,875.

Wright, Ernest Walter: *See—*
Zagorski, Jacek Januariusz; and Wright, Ernest Walter,3,473,308.
Wright, Esmond Philip Goodwin, to International Standard Electric Corporation. Data transmission of variable block lengths over half duplex networks. 3,427,400, 2-11-69, Cl. 178-69.
Wright, Felix William, to A.P.V. Company Limited, The. Heat transfer plates. 3,450,200, 6-17-69, Cl. 165-167.
Wright, Felix William; and Wilson, Alan Herbert, to A.P.V. Company Limited, The. Plate heat exchangers. 3,469,626, 9-30-69, Cl. 165-166.
Wright, G. F., Steel & Wire Company: *See—*
Wright, Merrill W.; and Knapp, Walter E., 3,476,238.
Wright, George Alexander. Bagpipes. 3,476,006, 11-4-69, Cl. 84-375.
Wright, George H., to Reiner Industries, Inc. Method and apparatus for connecting the ends of flexible or resilient strings to tubular elements having closed ends. 3,431,632, 3-11-69, Cl. 29-520.
Wright, George Thomas: *See—*
Radington-Meech, John Richard; and Wright, George Thomas,3,470,416.
Wright, Gerald T.: *See—*
McBrien, James H.; and Wright, Gerald T.,3,422,981.
Wright, Gerard C.; and Taylor, William L., to Xerox Corporation. Belt tracking device. 3,435,693, 4-1-69, Cl. 74-241.
Wright, Gilbert F., to Lotemp Ignition, Inc. Spark plug with an annular heat dam recess in the insulator nose. 3,445,710, 5-20-69, Cl. 313-143.
Wright, H. Dudley: *See—*
Jenkins, Alexander; and Weber, Eugen, 3,433,862.
Wright, Harlow, to North American Rockwell Corporation. Image intensifier. 3,471,217, 10-7-69, Cl. 350-160.
Wright, Harold A., to Koppers Company, Inc.3,4,7,8-Tetrabromo-[4.3.0]bicyclononane. 3,456,022, 7-15-69, Cl. 260-648.
Wright, Harold T., to Ampex Corporation. Tape tensioning apparatus. 3,465,936, 9-9-69, Cl. 226-39.
Wright, Hazel H.: *See—*
Brandon, Clarence W., 3,422,894.
Brandon, Clarence W., 3,438,352.
Wright, Hershel Earl. Foam dispensing device. 3,428,222, 2-18-69, Cl. 222-187.
Wright, Hubert A., Jr., to United States of America, Navy. Acoustic generator of the spark discharge type. 3,458,858, 7-29-69, Cl. 340-12.
Wright, J. Norman, to Schoeneman, J., Incorporated. Remotely controlled cutting knife. 3,470,780, 10-7-69, Cl. 83-375.
Wright, J Rondle, to Sun Oil Company. Dual valve actuator. 3,450,161, 6-17-69, Cl. 137-636.1
Wright, James A., to Emerson Electric Co. Burner control system. 3,434,788, 3-25-69, Cl. 431-66.
Wright, James B., to United States of America, Army. Frequency control system with a motor controlled synchronous inverter. 3,431,476, 3-4-69, Cl. 318-18.
Wright, James B.; and Honeycutt, Jay F., to United States of America, Army. Fire control intervalometer. 3,453,496, 7-1-69, Cl. 317-80.
Wright, James C., to Miner-Denver, Inc. Hydraulically-controlled ski lift. 3,440,819, 4-29-69, Cl. 60-52.
Wright, James C.: *See—*
Pierson, Edward D.; and Wright, James C.,3,481,499.
Wright, James H.: *See—*
Gutmann, William R.; and Wright, James H.,3,441,370.
Wright, James O.: *See—*
Ingwalson, Raymond W.; Smith, William F.; and Wright, James O.,3,478,092.
Wright, James R., to Chevron Research Company. Bituminous paving emulsions. 3,422,026, 1-14-69, Cl. 252-311.5
Wright, James T. Electrical tape-slide synchronizing system. 3,420,966, 1-7-69, Cl. 179-100.2
Wright, Jane A.; and Wright, John C. Adjustable ski racks. 3,468,460, 9-23-69, Cl. 224-42.1
Wright, Jerauld George, to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Sea motion corrector. 3,453,619, 7-1-69, Cl. 343-8.
Wright, John B., to Upjohn Company, The. 6H-Dibenzo[c,q][1,2,5]thiadiazocine-5,5-dioxides and method for their production. 3,464,996, 9-2-69, Cl. 260-293.4
Wright, John B.; and Markillie, John H., to Upjohn Company, The. 2,5-Dimethylpyrazine *p*-toluenesulfonate. 3,452,014, 6-24-69, Cl. 260-250.
Wright, John B.: *See—*
Sayigh, Adnan A. R.; Ulrich, Henri; and Wright, John B.,3,422,201.
Wright, John C.: *See—*
Wright, Jane A.; and Wright, John C.,3,468,460.
Wright, John G.: *See—*
Padovani, Henry R.; and Wright, John G.,3,478,946.
Wright, John H., to General Electric Company. Grease-like silicone compound. 3,453,210, 7-1-69, Cl. 252-28.
Wright, John N., to General Electric Company. Memory protection apparatus. 3,483,541, 12-9-69, Cl. 340-174.1
Wright, John W.: *See—*
Jackson, Wilbur F.; and Wright, John W.,3,433,409.
Jackson, Wilbur F.; and Wright, John W.,3,482,206.
Wright, Kenneth D., to Ebbert Engineering Company, mesne. Capacitive welding circuit. 3,428,863, 2-18-69, Cl. 315-241.
Wright, Kenneth L.: *See—*
Myers, Richard T.; McKee, Thomas A.; Spangler, Fred E.; and Wright, Kenneth L.,3,470,481.
Wright, Kenneth W. Blade sharpening apparatus. 3,440,772, 4-29-69, Cl. 51-170.
Wright, Larry R., to Motorola, Inc. Power amplifier including plurality of transistors operating in parallel. 3,471,796, 10-7-69, Cl. 330-30.
Wright, Larry R.: *See—*
Russell, Daniel D., Jr.; Jacobs, Paul H.; and Wright, Larry R.,3,469,191.
Wright, Lawrence T.; and Ginsburgh, Irwin, to Standard Oil Company (Indiana). Turbine apparatus for measuring the electrostatic charge density in electrically charged flowing fluids. 3,453,538, 7-1-69, Cl. 324-72.
Wright, Lawrence W.: *See—*
Thomas, Paul M.; Wright, Lawrence W.; Crile, Eugene E.; Tolleson, Leon H.; and Parmer, Jesse N.,3,471,036.
Wright, Lee A., to Compressed Air Service Company. Resistance stroke control cylinder. 3,429,233, 2-25-69, Cl. 92-24.
Wright, Leland F. Drip catcher and deflector. 3,471,060, 10-7-69, Cl. 222-108.
Wright, Leonard L., to Westinghouse Electric Corporation. Cast solid electrical bushings having stranded conductors. 3,458,644, 7-29-69, Cl. 174-23.
Wright, Leonard L..: *See—*
Leonard, Merrill G.; and Wright, Leonard L..,3,421,130.
Wright, Loren G.: *See—*
Uthe, Paul M., Jr.; Wright, Loren G.; and Greenan, Richard E.,3,445,750.
Wright, Lyle E., to Check Data Control Corporation. Credit car assembly. 3,434,414, 3-25-69, Cl. 101-369.
Wright Machinery Company, Inc.: *See—*
Monsees, Claude E.; and McCall, William H., 3,471,993.
Wright, Malcolm Edward John; and Cox, Gordon Cavell, to Cox & Wright Limited. Manufacture of footwear. 3,471,880, 10-14-69, Cl. 12-146.
Wright, Malor; and Healy, James W., to United-Carr Incorporated. Electroplating apparatus. 3,436,330, 4-1-69, Cl. 204-207.
Wright, Margaret A.: *See—*
Owen, Jeffrey M.; and Wright, Margaret A.,3,485,634.
Wright, Maurice James, to Lucas, Joseph (Industries) Limited. Battery charging systems for use in road vehicles. 3,443,193, 5-6-69, Cl. 320-64.
Wright, Maurice James, to Lucas, Joseph, (Industries)Limited. Transistor circuits. 3,449,598, 6-10-69, Cl. 307-297.
Wright, Maurice James, to Lucas, Joseph, (Industries) Limited. Battery charging systems for use in road vehicles. 3,454,861, 7-8-69, Cl. 320-48.
Wright, Maurice James, to Lucas, Joseph, (Industries) Limited. Battery charging system for road vehicles. 3,469,167, 9-23-69, Cl. 320-48.
Wright, Maurice James; and Nolan, Roger William, to Lucas, Joseph, (Industries) Limited. Indicating device for a battery charging system. 3,479,575, 11-18-69, Cl. 320-48.
Wright, Merrill W.; and Knapp, Walter E., to Wright, G. F., Steel & Wire Company. Dual roll package and method of forming the same. 3,476,238, 11-4-69, Cl. 206-59.
Wright, Nathan M., Jr. Tool for emergency handling of a telephone call. 3,456,975, 7-22-69, Cl. 294-24.
Wright, Nathaniel Lancaster, Jr. Garment spreader. 3,430,368, 3-4-69, Cl. 38-21.
Wright, Neville E.: *See—*
Macphail, Alexander C. B.; and Wright, Neville E.,3,483,122.
Wright, Norbert L.; and Dorn, Henry J., to Continental Can Company, Inc. Rotary air-flow control valve for compound gun of crown cap lining machine. 3,439,718, 4-22-69, Cl. 141-156.
Wright, Norman K.; and Kite, Maurice E., to U.S. Philips Corporation, mesne. Cryogenic liquid transfer tube, methods of constructing tube and of transferring liquid. 3,440,830, 4-29-69, Cl. 62-55.
Wright, Norman R.: *See—*
Plonsker, Larry; and Wright, Norman R.,3,433,619.
Plonsker, Larry; and Wright, Norman R.,3,433,620.
Plonsker, Larry; and Wright, Norman R.,3,433,622.
Wright, Paul E.: *See—*
Knapp, Phillip M.; and Wright, Paul E.,3,483,636.
Wright Rain Limited: *See—*
Jerome, Maurice William, 3,480,034.
Wright, Ralph J., 24% to Grappo, Michael A. 5% to Reeb, Elizabeth. Device for dissolving solid material in a liquid shunt stream. 3,456,678, 7-22-69, Cl. 137-268.
Wright, Raymond C., to Westinghouse Air Brake Company. Snap acting double check valve. 3,429,327, 2-25-69, Cl. 137-112.
Wright, Raymond T.; and Young, James E., to Xerox Corporation. Microfilm titling apparatus. 3,437,020, 4-8-69, Cl. 95-1.1

Wright, Reginald E., to Bakelite Xylonite Limited. Convertible furniture. 3,439,951, 4-22-69, Cl. 297-7.
Wright, Robert Andrew, to General Electric Company Limited, The. Storage arrangements. 3,422,971, 1-21-69, Cl. 214-15.
Wright, Robert C., Jr., to Andonian Associates, Inc. Cryogenic refrigeration device with temperature controlled diffuser. 3,424,230, 1-28-69, Cl. 165-2.
Wright, Robert C., to Andonian Associates, Inc. Flexible cold finger for cooling samples to cryogenic temperatures. 3,423,955, 1-28-69, Cl. 62-514.
Wright, Robert David: *See—*
Hale, Murray Everett; and Wright, Robert David,3,431,452.
Wright, Robert E., to Fleming, Geo. W., Company, The. Fireplace screen with removable decorative trim members. 3,469,570, 9-30-69, Cl. 126-202.
Wright, Robert L., Jr.; and Sweet, William N., to Westinghouse Electric Corporation. Motor-operated rotary input tap selector switch to regulate line voltage in X-ray system. 3,469,100, 9-23-69, Cl. 250-103.
Carder, Frank B.; Wright, Robert; Canade, George F.; and Stein, Daniel,3,472,175.
Wright, Roger M.: *See—*
White, Robert F.; and Wright, Roger M.,3,427,051.
Wright, Ronald Frederick, to Flexibox Limited. Lapping machine having wear ring positioning means. 3,431,683, 3-11-69, Cl. 51-129.
Wright, Thomas Henry; and Judson, Brian, to T.M.M. (Research) Limited. Apparatus for forming a sliver of textile fibres. 3,481,004, 12-2-69, Cl. 19-150.
Wright, Thomas Michael Benyon. Navigation systems using earth satellites. 3,430,234, 2-25-69, Cl. 343-6.
Wright, Vernon D., deceased (by Wright, Lola K., administratrix); and Eldridge, Lewis E., deceased0 (by Eldridge, Lillian E.; administratrix), to Boykin-Warner, Enterprises. Liquid dispensing container having a gravity actuated closure. 3,450,315, 6-17-69, Cl. 222-479.
Wright, Warren H.: *See—*
Binckley, William G.; and Wright, Warren H.,3,480,789.
Wright, Wilburn T., to Nationwide Chemical Corporation. Combating bacterial and fungal plant diseases with hexachlorophene 2,2' - methylene bis - ,3,4,6-trichlorophenol,. 3,420,936, 1-7-69, Cl. 424-348.
Wright, William A., Jr., to Wright Components, Inc. Solenoid valve and method for making the same. 3,462,116, 8-19-69, Cl. 251-139.
Wright, William Blythe, Jr., to American Cyanamid Company. Imidazo[1,5-α]quinolin-1-one and thione derivatives. 3,454,579, 7-8-69, Cl. 260-288.
Wright, William Blythe, Jr., to American Cyanamid Company. Therapeutic compositions containing morpholino- alkylene-indoles and methods of administering such in the treatment of depression. 3,465,080, 9-2-69, Cl. 424-248.
Wright, William Blythe, Jr., to American Cyanamid Company. 3-Aminoalkyl-1,3-benzodiazepin-2-ones. 3,474,090, 10-21-69, Cl. 260-239.3
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, to American Cyanamid Company. Substituted imidazolidinones and imidazolidine- thiones. 3,446,816, 5-27-69, Cl. 260-309.7
Wright, William Bylthe, Jr.; and Brabander, Herbert Joseph, to American Cyanamid Company. Imidazolidines. 3,459,757, 8-5-69, Cl. 260-294.
Wright, William E.; and Immethun, Peter A., to Ethyl Corporation. Perfume and scented compositions containing 2,4,4- trimethyl-2-pentyl acetate. 3,484,386, 12-16-69, Cl. 252-522.
Wright, William L., to Lilly, Eli, and Company. Method of eliminating weeds. 3,449,111, 6-10-69, Cl. 71-100.
Wright, William R., to Ashland Oil & Refining Company. Method and apparatus for preventing condensation in a collection system. 3,464,184, 9-2-69, Cl. 55-97.
Wright, William S., Jr.: *See—*
Glauser, James E.; and Wright, William S., Jr.,3,450,368.
Wrighton, Robert J.; and Wright, William S., Jr.,3,482,799.
Wright, William Sherwood: *See—*
Guinn, Jerry H.; and Wright, William Sherwood,3,480,079.
Wright, William Warren, to Guardian Electric Mfg., Co. Overtravel control mechanism for stepping switches. 3,422,691, 1-21-69, Cl. 74-142.
Wrighton, Robert J.; and Wright, William S., Jr., to Pacific Scientific Company. Safety harness device. 3,482,799, 12-9-69, Cl. 242-107.4
Wrightway Engineering Co.: *See—*
Gullaksen, Gilbert V., 3,450,350.
Wrigley, Charles Y.: *See—*
Lindmayer, Joseph; Wrigley, Charles Y.; and Garnache, Richard R.,3,455,748.
Wrinkle, Raymond L.; and Rossi, Lawrence T., to American Meter Company. Fluid meter. 3,482,446, 12-9-69, Cl. 73-257.
Wrinkle, Raymond L.: *See—*
Rossi, Lawrence T.; and Wrinkle, Raymond L.,3,427,890.
Wrobel, Raymond J.: *See—*
Endres, Joseph G.; Wrobel, Raymond J.; and Rendek, Robert B.,3,469,996.
Wroblewski, Edward J.: *See—*
Weidenhammer, James A.; Wroblewski, Edward J.; and Barbeau, Raymond A.,3,465,320.
Wronski, Steve F.: *See—*
Ullery, Lee R., Jr.; and Wronski, Steve F.,3,431,383.
Wrotnowski, Arthur C.; and Smith, Edward A., to American Felt Company. Strainer bag attachment arrangement. 3,464,561, 9-2-69, Cl. 210-232.
Wszolek, Walter R., to Grace, W. R., & Co. Shrink resistant impregnated wool. 3,427,193, 2-11-69, Cl. 117-141.
Wu, Chisung, to Union Carbide Corporation. Tris,disubstituted phosphenyl ethyl, phosphine oxides. 3,420,917, 1-7-69, Cl. 260-932.
Wu, Chisung, to Union Carbide Corporation. Tris(disubstituted phosphinylethyl)-phosphine oxides. 3,458,581, 7-29-69, Cl. 260-606.5
Wu, Jimmy C. C., to Owens-Illinois Inc. Coated refractory for contacting molten glass and method of making. 3,436,203, 4-1-69, Cl. 65-374.
Wu, Joseph C.: *See—*
Cushman, Le Roy T.; Wu, Joseph C.; and Welte, Robert F.,3,487,313.
Wu, Kuang-Wei G.; and Wontrobski, Charles E., to Chrysler Corporation. Lighting system for motor vehicle. 3,440,487, 4-22-69, Cl. 315-77.
Wu, Tse C., to General Electric Company. Organosilanes having trialkylsilylphenyl groups. 3,424,778, 1-28-69, Cl. 260-448.2
Wu, Tse C. Cyclopolysiloxanes substituted with trialkylsilylphenyl groups. 3,424,779, 1-28-69, Cl. 260-448.2
Wu, Tse C., to General Electric Company. Disiloxanes substituted with trialkylsilylphenyl substituents and reactive groups. 3,440,266, 4-22-69, Cl. 260-448.2
Wu, Tse C., to General Electric Company. Succinimidoalkylsiloxanes. 3,444,128, 5-13-69, Cl. 260-46.5
Wu, Tse C., to General Electric Company. Trifluoroacetamidopropyl-substituted silicone rubber. 3,470,130, 9-30-69, Cl. 260-37.
Wu, Tse C., to General Electric Company. Sulfone-containing organohalogenosilanes and method of forming. 3,478,077, 11-11-69, Cl. 260-448.2
Wu, Tse C., to General Electric Company. Sulfone-containing organocyclotrisiloxanes. 3,487,098, 12-30-69, Cl. 260-448.2
Wu, William C. L.: *See—*
Geacintov, Cyril; Eichenbaum, Raymond; and Wu, William C. L.,3,464,962.
Wu, William I. L., to Singer Company, The. Frequency response testing. 3,445,762, 5-20-69, Cl. 324-57.
Wu, Yuhuan. Device for washing and drying of delicate fabrics such as nylon hose, lingerie, and the like. 3,422,867, 1-21-69, Cl. 150-3.
Wueger, Karl Willi, to Crompton & Knowles Corporation. Stationary filling supply loom. 3,461,919, 8-19-69, Cl. 139-125.
Wuellner, Louis E.; Stark, Jack L.; and Crawford, James D., to International Telephone and Telegraph Corporation. Apparatus and method for detecting flaws in articles of glass and the like. 3,478,218, 11-11-69, Cl. 250-219.
Wuensch, Walter J., to Xerox Corporation. Transmission system utilizing a single cable for accomplishing forward transmission and reverse supervisory control signalling. 3,441,665, 4-29-69, Cl. 178-6.
Wuerker, Ralph F.; and Briones, Robert A., to TRW Inc. Electronic ignition circuit for flash lamps. 3,480,831, 11-25-69, Cl. 315-241.
Wuest, Adolph. Combination handbag and basket. 3,425,470, 2-4-69, Cl. 150-30.
Wuest, Stephan: *See—*
Gasser, Hermann; and Wuest, Stephan,3,438,189.
Wuesthoff, Paul P., to Pandjiris Weldment Co., The. Safety hoist in a manipulator and method of counterbalancing. 3,472,342, 10-14-69, Cl. 187-20.
Wuherer, Josef: *See—*
Flachsenberg, Paul; Wuherer, Josef; and Stein, Walter,3,470,005.
Wuhrer, Josef, to Rheinische Kalksteinwerke G.m.b.H. Production of hydraulic binders. 3,420,922, 1-7-69, Cl. 263-53.
Wuhrer, Josef; and Wiensz, Klaus, to Dolomit-Werke G.m.b.H. Manufacture of shaped refractories from dolomite. 3,441,636, 4-29-69, Cl. 264-65.
Wulbrede, Ernst Diekiele; Willenbacher, Erich M.; and Gabler, Dieter K., to Singer Company, The. Needle jogging mechanisms for sewing machines. 3,443,538, 5-13-69, Cl. 112-158.
Wulf, James B., to Union Carbide Corporation. In-transit liquefied gas refrigeration system. 3,446,028, 5-27-69, Cl. 62-45.
Wulf, Thornton E.: *See—*
Burns, Robert N.; and Wulf, Thornton E.,3,439,480.
Wulfe, Donald H., to Smorgasphere, Ltd. Food server. 3,437,057, 4-8-69, Cl. 108-22.

Wulff, Carl; Stein, Werner; Koch, Otto; and Weiss, Herbert, to Henkel & Cie., G.m.b.H. Process for the production of light colored surface active esters of sulfo-fatty acids and salts thereof. 3,485,856, 12-23-69, Cl. 260-400.
Wulff, Claus: *See—*
Bottenbruch, Ludwig; Wulff, Claus; and Schnell, Hermann,3,445,428.
Wulff, Claus; Schnell, Hermann; and Bottenbruch, Ludwig, to Farbenfabriken Bayer Aktiengesellschaft. High molecular weight polycarbonates. 3,422,065, 1-14-69, Cl. 260-47.
Wulff, William H., to Outboard Marine Corporation. Impulse drive for self-propelled rotary mower. 3,466,938, 9-16-69, Cl. 74-119.
Wunder, John E., to United Aircraft Products, Inc. Cooling system fan hydraulic speed control. 3,465,538, 9-9-69, Cl. 62-184.
Wunder, Walter: *See—*
Honig, Hans-Ludwig; Kolb, Gunter; and Wunder, Walter,3,425,863.
Wunderley, John M. Apparatus for thermal decomposition of mixed city refuse. 3,481,290, 12-2-69, Cl. 110-8.
Wunderlich, Charles R.: *See—*
Watson, Ellwood R.; Rowley, Gene V.; and Wunderlich, Charles R.,3,432,585.
Wunderlich, Donald K., to Sinclair Research, Inc. Process for activating a fixed bed of hydro- refining catalyst. 3,441,500, 4-29-69, Cl. 208-213.
Wunderlich, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Dyed and printed metal modified polypropylene and processes therefor. 3,421,833, 1-14-69, Cl. 8-97.
Wunderlich, Hermann; and Wolfrum, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Heterocyclic containing monoazo dyestuffs. 3,423,392, 1-21-69, Cl. 260-146.
Wunderlich, Hermann: *See—*
Wolfrum, Gerhard; and Wunderlich, Hermann,3,467,644.
Wolfrum, Gerhard; and Wunderlich, Hermann,3,483,181.
Wunderlich, Klaus: *See—*
Fuhring, Heinrich; Wunderlich, Klaus; and Sieber, Johannes Helmut,3,459,490.
Wunderlich, Orville A.: *See—*
Pryor, James N.; and Wunderlich, Orville A.,3,472,897.
Wunsch, Alfred: *See—*
Winkler, Kurt; and Wunsch, Alfred,3,458,116.
Wunsch, Gerd; Wintersberger, Karl; and Geierhaas, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of tertiary phosphines. 3,481,988, 12-2-69, Cl. 260-606.5
Wuppermann, Theodor Gesellschaft mit beschrankter Haftung: *See—*
Rietsch, Eberhard, 3,435,182.
Wurdack, Albert C., to McGraw-Edison Company. Circuit switching and protecting arrangement. 3,450,945, 6-17-69, Cl. 317-15.
Wurgler, Heinrich J.: *See—*
Heston, Eugene E.; Stroup, John F.; McCormick, William S.; and Wurgler, Heinrich J.,3,445,890.
Wurlitzer, Anna Lee: *See—*
Wurlitzer, Rembert,3,440,918.
Wurlitzer Company, The: *See—*
Andersen, Clifford W., 3,475,833.
Barry, Robert D., 3,422,208.
Ippolito, Anthony C., 3,435,122.
Osborne, Fred H.; and Corbett, Michael J., 3,420,532.
Schwartz, Harold O.; and Machanian, William V., 3,440,325.
Schwartz, Harold O.; and Barry, Robert D., 3,480,719.
Thomas, Howard M.; and Quigley, Robert A., 3,420,131.
Tuttle, Robert S., 3,455,560.
Wurlitzer, Rembert, deceased0 (by Wurlitzer, Anna Lee; executrix), to Wurlitzer, Rembert, Inc. Bow stick and method of manufacture thereof. 3,440,918, 4-29-69, Cl. 84-282.
Wurlitzer, Rembert, Inc.: *See—*
Wurlitzer, Rembert, 3,440,918.
Wurster, David H.: *See—*
Fernandez, Arthur; and Wurster, David H.,3,466,075.
Wurster, John Henby, to General Electric Company. Electric capacitor with extended wicking. 3,447,048, 5-27-69, Cl. 317-258.
Wurster, John H., to General Electric Company. Capacitor cooling means. 3,454,842, 7-8-69, Cl. 317-243.
Wurster, Richard, to Prontor-Werk Alfred Gauthier GmbH. Photographic shutter. 3,474,716, 10-28-69, Cl. 95-62.
Wurster, Richard: *See—*
Helber, Karl; and Wurster, Richard,3,482,501.
Wurstner, Robert G., to Lubrizol Corporation, The. Corrosion inhibiting composition. 3,453,124, 7-1-69, Cl. 106-14.
Wurtlenbergische Metallwarenfabrik: *See—*
Kraft, Paul, 3,439,371.
Wurtmann, George G., to Nichols Engineering & Research Corporation. Cleaning and deaerating paper pulp suspensions. 3,421,622, 1-14-69, Cl. 209-211.
Wurttembergische Metallwarenfabrik: *See—*
Kraft, Paul, 3,485,595.
Schlegel, Hans; and Nowotny, Beate, 3,423,269.
Wurtz, Friedhelm: *See—*
Schenk, Horst; and Wurtz, Friedhelm,3,478,565.
Wurtzell, Frederick W.: *See—*
Mitchell, James A.; Wilbur, Donald E., Jr.; and Wurtzell, Frederick W.,3,449,482.
Wurzburg, Otto B.: *See—*
Kruger, Leo H.; and Wurzburg, Otto B.,3,441,558.
Wurzburg, Richard; and Okeon, David M. Label for holding packing slips. 3,436,854, 4-8-69, Cl. 40-10.
Wurzel, Hugo, to Waldes Kohinoor, Inc. Retaining rings. 3,464,307, 9-2-69, Cl. 85-8.8
Wurzel, Hugo, to Waldes Kohinoor, Inc. Self-locking retaining rings. 3,483,789, 12-16-69, Cl. 85-8.8
Wurzel, Hugo, to Waldes Kohinoor, Inc. Self-locking retaining rings and assemblies employing same. 3,483,888, 12-16-69, Cl. 137-539.
Wuschke, Edgar Edwin, to Atomic Energy of Canada Limited. Method and means for measuring fluid conductivity including a three electrode arrangement. 3,470,465, 9-30-69, Cl. 324-65.
Wusseles, Peter J.: *See—*
Bode, Charles H., Jr.; and Wusseles, Peter J.,3,476,373.
Wusteney, John J., to Allis-Chalmers Manufacturing Company. Means for operating air compressors in parallel with alternate lead duty cycling. 3,463,382, 8-26-69, Cl. 230-2.
Wuster, Walter L.: *See—*
Riggin, Lance E.; Willis, Donald R.; and Wuster, Walter L.,3,487,167.
Wuthrich, Rolf: *See—*
Blatter, Hans; and Wuthrich, Rolf,3,479,578.
Wutz, Adolf A.: *See—*
Mantell, Gerald J.; Helin, Arthur F.; and Wutz, Adolf A.,3,459,698.
Wutz, Maximilian, to Leybold-Heraeus-Verwaltung GmbH, mesne. Measuring tube for an ionization vacuum gauge. 3,465,240, 9-2-69, Cl. 324-33.
Wutz, Maximilian: *See—*
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,458,120.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,459,367.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,463,385.
Pfaff, Hansen; Sinn, Hartmut; and Wutz, Maximilian,3,463,387.
Wutzel, Herbert, to Patentauswertung Vogelbusch Gesellschaft, m.b.H. Continuous sponge preparation. 3,438,786, 4-15-69, Cl. 99-90.
Wutzke, Albert J. Sectional door. 3,460,290, 8-12-69, Cl. 49-411.
Wuyts, Julien: *See—*
Tisserant, Bernard; and Wuyts, Julien,3,436,632.
Wyandotte Chemicals Corporation: *See—*
Austin, Arthur L., 3,437,694.
Austin, Arthur L.; Hartman, Robert J.; and Patton, John T., Jr., 3,439,067.
Axelrood, Seymour L.; and Lajiness, Wayne G., 3,425,999.
Boehmer, Matthew A., 3,445,395.
Bowden, John H.; and Terry, Clifford T., 3,433,863.
Bowersox, Harold W., 3,465,882.
Damusis, Adolfas, 3,448,171.
Damusis, Adolfas; and Frisch, Kurt C., 3,448,172.
Damusis, Adolfas, 3,457,225.
Davis, Pauls; and Vogt, Herwart C., 3,456,005.
Davis, Pauls; and Vogt, Herwart C., 3,466,305.
Davis, Pauls; and Vogt, Herwart C., 3,478,110.
Dawn, Robert C.; and Nichols, Newlin S., 3,437,624.
Duvall, Jacque L., 3,438,906.
Duvall, Jacque L.; and Otrhalek, Joseph V., 3,458,300.
Fijal, Walter R., 3,471,416.
Hymes, Alan C., 3,450,502.
Kokorudz, Michael; Langdon, William K.; and Levis, William W., Jr., 3,459,762.
Langdon, William K.; and Korczak, Alexander, 3,455,996.
McMaster, Arnold L., 3,440,269.
McMaster, Arnold L.; and Davis, Kenneth E., 3,440,270.
Noe, Joseph T.; Peppard, Donald M.; and McCabe, Bernard J., 3,420,222.
Otrhalek, Joseph V.; and Luoma, Paul E., 3,425,948.
Otrhalek, Joseph V., 3,441,400.
Otrhalek, Joseph V.; and Luoma, Paul E., 3,441,511.
Patton, John T., Jr.; and Pizzini, Louis C., 3,454,646.
Pelletier, Paul E.; and Pelletier, Floy, 3,474,046.
Pelletier, Paul E.; and Pelletier, Floy, 3,474,047.
Pesold, William F., 3,428,417.
Pizzini, Louis C.; and Patton, John T., Jr., 3,441,616.
Schmolka, Irving R., 3,438,905.
Schmolka, Irving R., 3,438,907.
Strassel, Albert Pierre, 3,475,266.
Vogt, Herwart C., 3,445,405.
Wyard, Walter Harvie, to Metal Box Company, Limited, The. Closing containers. 3,434,265, 3-25-69, Cl. 53-77.
Wyatt, Harold M., to Universal Manufacturing Company, Inc. Backfill and tamping attachment for a self- propelled loader. 3,471,953, 10-14-69, Cl. 37-142.5
Wyatt, Harold M., to Case, J. I., Company, mesne. Roller attachment for a self-propelled vehicle. 3,477,535, 11-11-69, Cl. 180-20.

Wyatt, Harold W.: *See—*
Holland, Victor B.; Propst, Merton C., Jr.; and Wyatt, Harold W.,3,425,788.
Wyatt, James B.: *See—*
Gegenheimer, Harold W.; and Wyatt, James B.,3,485,257.
Wyatt, Luther E., to Smico, Inc. Trimming weighing machine. 3,434,555, 3-25-69, Cl. 177-52.
Wyatt, Maurice V.: *See—*
Hellberg, Gustav Sigvald, 3,420,421.
Wyatt, Theodore, to United States of America, Navy. Damping coupler for satellite attitude control. 3,480,232, 11-25-69, Cl. 244-1.
Wyatt, William Kirk: *See—*
Berger, Emil J., Jr.; and Wyatt, William Kirk,3,422,613.
Wyatt, William Kirk; Mueller, Edward G.; and Hebrank, William H., to Turbo Machine Company. Apparatus for coiling a textile product. 3,478,399, 11-18-69, Cl. 28-21.
Wycheck, Thomas Henry, to AMP Incorporated. Printed circuit edge connector. 3,426,313, 2-4-69, Cl. 339-74.
Wycherley, John Ralph; Proudman, Michael C.; and Clare, Alan C., to G.K.N. Group Services Limited. Flaw detecting apparatus with mechanical scanning of detection means. 3,469,182, 9-23-69, Cl. 324-37.
Wycislak, John, to Globe-Union Inc., mesne. Process for establishing low zener breakdown voltages in semiconductor regulators. 3,453,154, 7-1-69, Cl. 148-186.
Wyckoff, Charles W., to EG & G, Inc. Silver halide photographic film having increased exposure-response characteristics. 3,450,536, 6-17-69, Cl. 96-68.
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M., to Richardson-Merrell, Inc. Aldehydes and ketones of trifluoromethylfurans. 3,439,000, 4-15-69, Cl. 260-347.5
Wyckoff, Kenneth K.; Bambury, Ronald E.; and Tennent, David M., to Richardson-Merrell Inc. 2-(Trifluoromethyl)-3-furoic acid esters and other 2-trifluoromethyl furan derivatives. 3,442,913, 5-6-69, Cl. 260-346.1
Wyeroski, Ronald M.; and Bokma, Mindert P., to Victory Shelving Co. Vertically adjustable shelf. 3,478,993, 11-18-69, Cl. 248-245.
Wyeth, John, & Brother Limited: *See—*
Brown, Kevan, 3,476,766.
Crook, Leonard Robert; Jansen, Alexander Bertus Arnold; Spencer, Kenneth Eric Vincent; and Watson, David Harris, 3,457,272.
Wyeth, Nathaniel C.: *See—*
Heckrotte, Robert S.; Kiscaden, Donald C.; and Wyeth, Nathaniel C.,3,460,199.
Wygant, James C.; Arons, Howard L.; and Prill, Erhard J., to Monsanto Chemical Company. Processes for preparing alkyl hydroxyalkyl fumarates. 3,481,973, 12-2-69, Cl. 260-485.
Wygant, James C.; and Prill, Erhard J., to Monsanto Company. Polyvinyl halide resinous compositions plasticized with alkenylsuccinic amide-lactones. 3,467,616, 9-16-69, Cl. 260-30.4
Wygant, James C.; and Prill, Erhard J., to Monsanto Company. Alkenylsuccinic amide-lactones. 3,487,452, 12-30-69, Cl. 260-343.6
Wykeham Farrance Engineering Limited: *See—*
Bishop, Alan Wilfred; and Skinner, Angus Evan, 3,448,608.
Wyle, Geoffrey Phillip. Holder for wire coil. 3,446,456, 5-27-69, Cl. 242-129.
Wyle Laboratories: *See—*
Murray, Fancher M., 3,453,616.
Payne, Peter R., 3,465,533.
Scuitto, Thomas J., 3,428,793.
Tomaszewski, Carlos A.; and Scarlett, Robert L., 3,479,552.
Walls, Earl L., 3,425,762.
Wyler, Eugen: *See—*
Locher, Edmund G.; Wyler, Eugen; and Nolting, Hermann,3,445,565.
Wyler, Joseph A., to Commercial Solvents Corporation. Process for the preparation of pentarrythritol tetranitrate free from acid and explosive composition having an improved sensitivity and comprising such pentaerythrilol tetranitrate. 3,479,236, 11-18-69, Cl. 149-93.
Wylie, Alastair Graham: *See—*
Doyle, Peter; and Wylie, Alastair Graham,3,478,047.
Doyle, Peter; Swain, Geoffrey; and Wylie, Alastair Graham,3,463,784.
Wylie, Harold B., to Panelstitchers, Inc. Cushion cover machine. 3,441,994, 5-6-69, Cl. 29-91.
Wylie, Harold Franklin: *See—*
Zwart, Bernardus Mulder, Jr.; Lukevics, Alfreds Karlis; and Wylie, Harold Franklin,3,428,001.
Wyllie, Malcolm R. J., to Gulf Research & Development Company. Miscible flooding process. 3,439,743, 4-22-69, Cl. 166-11.
Wyllie, Malcolm R. J., to Gulf Research & Development Company. Method and apparatus for anchoring submerged pipelines. 3,447,330, 6-3-69, Cl. 61-72.3
Wylupek, William J., to Moore Products Co. Flow measurement and control systems. 3,428,079, 2-18-69, Cl. 137-486.
Wyman, John E.: *See—*
Byrne, Joseph J.; and Wyman, John E.,3,472,812.
Wyman-Gordon Company: *See—*
Ferguson, Ellis H., 3,478,566.
Wymer, Fred J.: *See—*
Matthews, Robert P.; Simmons, Gustavus J.; and Wymer, Fred J.,3,480,921.
Wymore, Charles E.; and Wheaton, Robert M., to Dow Chemical Company, The. Drying fluids with regenerable sulfonate cation-exchange resins. 3,438,892, 4-15-69, Cl. 210-32.
Wymore, Max L.: *See—*
Murphy, Harry E., 3,477,645.
Wyndrum, Ralph W., Jr.: *See—*
Dow, Robert J.; Feldman, David; Lee, Samuel C.; Mitchell, Edward S., Jr.; and Wyndrum, Ralph W., Jr.,3,460,026.
Wynn, William R.: *See—*
Mathieu, Edmond N.; and Wynn, William R.,3,457,757.
Wynne, Francis E., Jr.: *See—*
Carlson, Edgar; and Wynne, Francis E., Jr.,3,433,734.
Wynne, James R.; and Gill, John D., to Wynne-Giel Associates, Inc. Marine propulsion unit. 3,422,789, 1-21-69, Cl. 115-12.
Wynne, Reginald George: *See—*
Evans, Arthur Wallace; Wynne, Reginald George; and Marynowski, Chester Waldemar,3,485,591.
Wynne-Giel Associates, Inc.: *See—*
Wynne, James R.; and Gill, John D., 3,422,789.
Wynnemer, Donald J., to Esso Research and Engineering Company. Additive for increasing efficiency in thermal hydrodealkylation. 3,442,967, 5-6-69, Cl. 260-672.
Wynstra, John, to Union Carbide Corporation. Hydroxyl terminated polyester oligomers. 3,449,467, 6-10-69, Cl. 260-850.
Wynstra, John, to Union Carbide Corporation. Vinyl coating compositions of polyvinyl chloride of 2,2-dimethyl-1,3-propanediol mono (hydroxypivalate). 3,467,731, 9-16-69, Cl. 260-859.
Wyott Corporation: *See—*
James, Frank C., 3,451,485.
Wyrough, David J.: *See—*
Gaglione, Alfonso T.; Marvin, Harry N.; and Wyrough, David J.,3,442,480.
Wyrough, David J., to Midland-Ross Corporation. Closure assembly for heated chamber. 3,451,365, 6-24-69, Cl. 110-175.
Wilkins, William Burdette; and Wyrough, David J.,3,481,808.
Wyse, David S. Automobile safety level indicator. 3,422,544, 1-21-69, Cl. 33-207.
Wyse, David S. Quick disconnector. 3,484,736, 12-16-69, Cl. 339-61.
Wyse, Harold G., to Gad-Jets, Inc. Tool cooling system and method for producing the same. 3,455,513, 7-15-69, Cl. 239-366.
Wysocki, Jerzy. Method for erecting buildings. 3,462,908, 8-26-69, Cl. 52-745.
Wysocki, Kazmier: *See—*
Flynn, Michael J., 3,454,448.
Wysocki, Lawrence S., to Hoerner-Waldorf Corporation. Wraparound packaging sleeve. 3,443,681, 5-13-69, Cl. 206-46.
Wysocki, Lawrence S., to Hoerner-Waldorf Corporation. Circular type disc. 3,451,539, 6-24-69, Cl. 206-46.
Wysocki, Lawrence S., to Hoerner-Waldorf Corporation. Hexagonal one-piece carton. 3,467,298, 9-16-69, Cl. 229-41.
Wysong & Miles Company: *See—*
Weisner, Ralph H., 3,459,087.
Wysowski, George F. Food server. 3,443,781, 5-13-69, Cl. 248-164.
Wyss, Escher, G.m.b.H.: *See—*
Siewert, Hans Wolfgang, 3,464,637.
Wyssbrod, Hans. Rotary piston engine. 3,477,415, 11-11-69, Cl. 123-44.
Wystrach, Vernon Paul; Lenick, Richard Vincent; and Murray, Michael Albert, to American Cyanamid Company. Pyrotechnic compositions containing metal fuel, inorganic oxidizer salt, and a vinyl polymer in a solvent. 3,464,869, 9-2-69, Cl. 149-42.
Wythe, Frederick J., to Emhart Corporation. Shears for molten glass feeders. 3,435,719, 4-1-69, Cl. 83-623.
Xaloy Incorporated: *See—*
Foster, George H.; and Lomax, Donald P., 3,456,298.
Xander, Heinz Peter. Device for rolling baby carriages on stairs. 3,432,178, 3-11-69, Cl. 280-5.22
Xaus, D. Sergio Serra. Heddles for textile loom. 3,459,237, 8-5-69, Cl. 139-89.
Xenakis, Sabbas N., to General Electric Company. Television receiver horizontal sweep circuit having protection against arcing. 3,480,826, 11-25-69, Cl. 315-27.
Xenos, John P. Paper form low level alarm system. 3,487,395, 12-30-69, Cl. 340-259.
Xerox Corporation: *See—*
Adamek, John A.; Fantuzzo, Joseph; and Punnett, Frazer D., 3,449,548.
Amidon, Alan B.; and Brynko, Carl, 3,441,411.
Amidon, Alan B.; and Brynko, Carl, 3,442,646.
Amidon, Alan B.; and Brynko, Carl, 3,450,530.
Amidon, Alan B.; and Brynko, Carl, 3,450,531.
Amidon, Alan B.; and Brynko, Carl, 3,450,533.
Amidon, Alan B.; and Brynko, Carl, 3,471,290.
Amidon, Alan B.; and Brynko, Carl, 3,482,973.

Andrus, Paul G., 3,456,586.
Aser, Gilbert A.; and Stokes, David R., 3,424,131.
Aser, Gilbert A.; Figler, Robert H.; Manghirmalani, Arjan T.; and Redding, Thomas P., 3,435,500.
Bahr, Karl E.; Griswold, Augustus W.; Price, Aldon A.; and Young, Charles R., 3,460,824.
Bailey, John M., Jr., 3,422,737.
Baker, James B., 3,437,407.
Balbierer, Hans H., 3,483,679.
Bean, Lloyd F.; and Gundlach, Robert W., 3,443,938.
Behringer, Arthur J.; and Tonozzi, Stephen A., 3,447,957.
Benson, Robert W., 3,483,372.
Berardi, Lloyd F.; and Panetta, Michael A., 3,477,450.
Blow, James H., Jr., 3,439,983.
Britt, James Edward; Warren, Larry Hartwell; and Melville, John Ward, 3,467,371.
Brynko, Carl; and Martel, Robert W., 3,422,759.
Brynko, Carl, 3,441,410.
Brynko, Carl; and Ossanna, Oliver A., 3,445,225.
Brynko, Carl, 3,451,811.
Caldwell, John P.; and Punnett, Frazer D., 3,454,335.
Cann, Gordon L.; and Harder, Robert L., 3,437,871.
Cann, Gordon L.; and Harder, Robert L., 3,449,628.
Cann, Gordon L.; and Harder, Robert L., 3,453,469.
Cann, Gordon L.; and Harder, Robert L., 3,453,474.
Cann, Gordon L.; and Harder, Robert L., 3,453,488.
Cann, Gordon L.; and Harder, Robert L., 3,453,489.
Cann, Gordon L.; Harder, Robert L.; and Jacobs, Paul F., 3,462,622.
Cann, Gordon L., 3,467,885.
Carreira, Leonard M.; and Tulagin, Vsevolod, 3,477,934.
Carreira, Leonard M., 3,485,738.
Cassano, James R., 3,430,558.
Cassano, James R., 3,484,101.
Centanni, James D., 3,471,639.
Centanni, James D., 3,474,442.
Centanni, James D.; and Fleig, William E., 3,484,750.
Cerlon, Peter J., 3,427,157.
Chawda, Prabhulal P.; and Caldwell, John P., 3,448,724.
Clark, Harold E., 3,446,616.
Clark, Harold E., 3,484,162.
Davis, Howard C.; and Trumbull, Harold E., 3,433,154.
De Groat, Paul H., 3,483,317.
DeGroat, Paul H., 3,471,638.
Del Vecchio, George D.; and Ferrari, Patrick T., 3,457,405.
Dhoble, Prafulla S., 3,449,546.
Dittmar, Charles A., 3,460,296.
Donalies, Daniel J., 3,435,803.
Draugelis, Vaidevutis C.; and Redding, Thomas P., 3,458,187.
Eichorn, Roger H.; and Kaupp, Norbett H., 3,424,615.
Eichorn, Roger H.; and Kaupp, Norbett H., 3,484,163.
Ensminger, Dale, 3,483,034.
Estock, Paul Joseph, 3,472,958.
Ewing, Joan R., 3,443,937.
Ewing, Joan R., 3,482,969.
Fackler, George E., 3,482,676.
Fantuzzo, Joseph, 3,453,045.
Fend, Frederick A., 3,476,473.
Gallo, Charles F., 3,433,948.
Galster, Thomas H.; and Michaels, Thomas B., 3,465,203.
Gardner, John F., 3,432,231.
Gardner, John F.; Michaels, Thomas B.; and Taillie, Gordon P., 3,473,035.
Gold, Murray I., 3,484,792.
Green, Leland D.; Reynolds, Robert W.; and Saeger, Waldemar, 3,428,744.
Green, Leland D.; Saeger, Waldemar; and Tanguay, Armand R., 3,445,598.
Green, Leland D.; Reynolds, Robert W.; Saeger, Waldemar; and Tanguay, Armand R., 3,448,207.
Gundlach, Robert W., 3,426,354.
Gundlach, Robert W., 3,438,772.
Gundlach, Robert W., 3,443,517.
Gundlach, Robert W.; and Bean, Lloyd F., 3,445,226.
Gundlach, Robert W., 3,470,009.
Gundlach, Robert W., 3,481,668.
Hamilton, Donald A., 3,477,822.
Hamilton, Donald Arthur, 3,477,821.
Hamilton, Donald Arthur, 3,480,398.
Hamilton, Donald Arthur, 3,480,399.
Headd, Franklin L.; and Wilson, Jack O., 3,427,966.
Hemphill, Kent W., 3,472,136.
Hitchcock, Allen M.; and Thompson, Robert W., 3,446,554.
Holtzhauer, Thomas F., 3,440,859.
Honjo, Satoru, 3,428,453.
Hudson, Frederick W.; and Cranch, John E., 3,471,695.
Hull, Henry E.; Trumbull, Harold E.; and Zeidman, Gordon G., 3,432,639.
Ing, Samuel W., Jr.; and Chiang, Yuen-Sheng, 3,472,679.
Jacknow, Burton B.; and Moriconi, Joseph H., 3,467,634.
Jansen, Francis J.; Reynolds, Robert W.; and Shimabukuro, George T., 3,445,587.
Joseph, Robert J.; and Murphy, William J., 3,434,832.
Kazan, Benjamin, 3,437,408.
Kazan, Benjamin, 3,440,428.
Kazan, Benjamin, 3,474,417.
Kazan, Benjamin, 3,483,414.
Kazan, Benjamin, 3,485,621.
King, Paul F., 3,438,705.
Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vsevolod, 3,448,025.
Krieger, Arthur L.; Stein, Ira S.; and Tulagin, Vesvolod, 3,474,019.
Labana, Santokh S., 3,432,415.
Lahr, Roy J.; Evans, Paul F.; and Lees, Harold D., 3,459,946.
Lahr, Roy J., 3,484,551.
Lane, Richard L.; and Jones, Robert N., 3,451,846.
Leiga, Algird G.; and McInally, John A, 3,453,427.
Leiga, Algird G.; Gallo, Charles F.; and Walder, Roy A., 3,474,223.
Liva, Robert H., 3,422,756.
Liva, Robert H., 3,425,685.
Lynn, Lewis G., 3,473,388.
Lynn, Lewis G., 3,478,600.
Mack, Donald E., 3,461,390.
Mack, Donald E., 3,479,597.
Madrid, Robert W., 3,477,568.
Malinaric, Paul J., 3,444,369.
Mallory, Donald G.; Ashton, Raymond J.; and Liva, Robert H., 3,480,360.
Manghirmalani, Arjan T.; Trabold, Andrew F.; and Figler, Robert H., 3,437,032.
Martel, Robert W.; Weigl, John W.; and Mammino, Joseph, 3,455,240.
Mayer, Edward F.; and Sullivan, William A., Jr., 3,472,657.
Mets, Franklin C.; and Robbins, Neal R., 3,460,825.
Michaels, Thomas B., 3,445,626.
Mihajlov, Vsevolod S., 3,427,242.
Miki, Eiji, 3,430,148.
Miller, William E.; and Webb, Douglas E., 3,479,119.
Minett, Ernest Everet; and Weigl , John W., 3,478,659.
Montevecchio, Albert J., 3,472,953.
Murray, Thomas C.; and Roberts, Russell R., 3,421,818.
Neugebauer, Hans E. J., 3,483,777.
Pease, Donald L.; and Twist, Henry A., 3,430,606.
Perreault, Donald A., 3,454,718.
Perreault, Donald A., 3,461,227.
Petruccelli, Thomas L., 3,436,071.
Pollock, David Harry, 3,487,252.
Prather, Albert E., 3,485,934.
Rauscher, Richard C., 3,427,107.
Rees, James D., Jr., 3,476,478.
Roth, Charles T., 3,426,144.
Roth, Charles T.; and Smith, James A., 3,449,630.
Roth, Charles T., 3,485,546.
Roth, Walter; Gallo, Charles F.; and Leiga, Algird G., 3,481,669.
Saeger, Waldemar; Reynolds, Robert W.; Green, Leland Dale; Tanguay, Armand R.; and Shimabukuro, George T., 3,432,613.
Saeger, Waldemar; and Shimabukuro, George T., 3,436,474.
Saeger, Waldemar, 3,458,835.
Saeger, Waldemar; and Gold, Murray I., 3,484,791.
Schaeffer, Donald W., 3,484,547.
Schoen, John J., 3,438,704.
Schoenthal, Alan F., 3,473,455.
Schottmiller, John C.; and Walborn, Ray C., Jr., 3,468,705.
Schwertz, Frederick A., 3,430,254.
Sewell, Brian Constantine, 3,485,622.
Shackman, Jacob D., 3,470,797.
Sharon, Al U., 3,457,371.
Shimabukuro, George T., 3,426,148.
Shimabukuro, George T.; and Saeger, Waldemar, 3,444,315.
Smith, Charles E., 3,468,250.
Sokolov, David A., 3,459,888.
Sokolov, David A., 3,485,945.
Solodar, Warren E.; and Kyriakakis, Basil M., 3,478,064.
Solodar, Warren E.; and Labana, Santokh S., 3,482,970.
Squassoni, Gino F.; Hermanson, Herman A.; McCarroll, Alan F.; and Zurovskis, Egon, 3,442,588.
Stange, Klaus K.; Lux, Adalbert A.; and Michaels, Thomas B., 3,469,834.
Steele, Guy, 3,475,936.
Stein, Ira S.; Tulagin, Vsevolod; and Mihajlov, Vsevolod S., 3,446,722.
Stillwell, Peter F.T.C., 3,472,959.
Straughan, Virgil E., 3,467,548.
Sullivan, William A., Jr., 3,428,025.
Swigert, Jay Kirk; and Lane, Richard L., 3,460,476.
Swyler, Karl J., 3,484,265.

Terry, Jack H.; and Mueller, Ernest R., 3,436,234.
Terry, Jack H., 3,446,646.
Tilly, Ralph R., 3,424,528.
Tompkins, Edgar M., 3,432,232.
Towers, Harvey S.; and Blackert, John E., 3,424,525.
Townsend, Stephen E., 3,422,287.
Townsend, Stephen E., 3,437,845.
Townsend, Stephen E., 3,441,668.
Townsend, Stephen E., 3,443,026.
Townsend, Stephen E., 3,447,026.
Townsend, Stephen E., 3,457,520.
Townsend, Stephen E.; and Mack, Donald E., 3,462,695.
Townsend, Stephen E., 3,479,453.
Trumbull, Harold E.; and Grimm, James J., 3,460,472.
Tseo, Gu-Din, 3,468,249.
Tulagin, Vsevolod; and Labana, Santokh S., 3,474,020.
Tulagin, Vsevolod; and Labana, Santokh S., 3,485,633.
Turner, Lyman H., 3,427,965.
Turner, Lyman H., 3,429,259.
Urbach, John C., 3,436,216.
Vock, Richard C., 3,449,568.
Walsh, Arthur, 3,473,940.
Webb, Douglas E., 3,435,243.
Weigl, John W.; Forest, Edward; and Keller, Carol K., 3,480,962.
Weigl, John W., 3,484,793.
Weiler, Ernest A. H., 3,450,402.
Weinberger, Lester, 3,442,781.
Weinberger, Lester, 3,445,227.
Weinberger, Lester, 3,447,922.
Weinberger, Lester, 3,448,028.
Weinberger, Lester, 3,448,029.
Weinberger, Lester; and Kyriakakis, Basil M., 3,448,030.
Wharton, Armistead, 3,466,959.
Wheeler, John L.; and Powers, William D., 3,472,961.
Wilferth, Robert A.; and Keenan, Peter B., 3,485,623.
Williams, Thomas G., 3,453,752.
Wilson, Claude D., 3,456,074.
Wood, Charles; Kamath, G Sanjiv; and Neyhart, James H., 3,469,978.
Wright, Gerard C.; and Taylor, William L., 3,435,693.
Wright, Raymond T.; and Young, James E., 3,437,020.
Wuensch, Walter J., 3,441,665.
Yarger, Norman L.; and Liva, Robert H., 3,434,710.
Yariv, Amnon; Johnson, Fred M.; and El Sayed, Mostafa A., 3,465,166.
Young, James E., 3,438,052.
Ziehm, Richard T., 3,426,259.
Ziehm, Richard T., 3,454,884.
Zoppoth, Raymond Carl; and Young, James E., 3,480,965.
Xomox Corporation: *See*—
Smith, Russell G., 3,472,485.
Xylander, Melvin P., to International Business Machines Corporation. Gated difference amplifier. 3,432,831, 3-11-69, Cl. 340-174.
Yabuno, Gaiseki. Fluid pressure-driven deep-well pump. 3,438,453, 4-15-69, Cl. 175-102.
Yabuno, Yoshio: *See*—
Tanigawa, Shizuhiko; Yabuno, Yoshio; Nakamura, Koji; Makamura, Takuji; and Fujimori, Nobuyoshi,3,422,230.
Yabuta, Seizo: *See*—
Terao, Shinichiro; Sagawa, Seizi; and Yabuta, Seizo,3,435,074.
Ueda, Tomoharu; Terao, Shinichiro; and Yabuta, Seizo,3,464,478.
Yackel, Edward C., to Eastman Kodak Company. Gravure stripping film. 3,453,111, 7-1-69, Cl. 96-83.
Yada, Seiichi: *See*—
Kudo, Shiro; Mihara, Yoshihisa; and Yada, Seiichi,3,449,435.
Kudo, Shiro; Yada, Seiichi; and Yamauchi, Takayoshi,3,471,575.
Yada, Toshio: *See*—
Akita, Yoshio; Maeda, Toyoo; and Yada, Toshio,3,464,175.
Yafet, Yako: *See*—
Fleury, Paul; Patel, Chandra K. N.; Slusher, Richart E.; and Yafet, Yako,3,470,453.
Yafuso, Masao: *See*—
Dunkel, Morris; and Yafuso, Masao,3,446,822.
Yagelowich, Edwin T., to Itek Corporation. Drier-stacker module. 3,453,744, 7-8-69, Cl. 34-156.
Yager, Norman J.: *See*—
Gardiner, Roy W.; Melville, Victor J.; and Yager, Norman J.,3,461,725.
Yager, Stephen P.: *See*—
United States of America,National Aeronautics and Space Administration, Administrator, 3,446,387.
Yager, Victor. Shear plate and screen for dry shaver. 3,453,909, 7-8-69, Cl. 76-104.
Yaggi, Lawrence A.: *See*—
Whitely, Richard L.; Yaggi, Lawrence A.; Shivers, Kenneth P.; and Tongret, Stewart,3,445,601.
Yaggy, Leon S., to Hughes Aircraft Company. Moving target visual indicator tube. 3,432,717, 3-11-69, Cl. 315-12.
Yagher, Charles, Jr., to General Electric Company. All NPN transistor DC amplifier. 3,462,698, 8-19-69, Cl. 330-15.
Yagi, Motoi: *See*—
Kuriyagawa, Mamoru; Yagi, Motoi; and Ohkawa, Motokazu,3,484,566.
Yagishita, Aisaburo. Process for preparing a filter medium. 3,485,909, 12-23-69, Cl. 264-122.
Yaguchi, Hiroyasu: *See*—
Oikawa, Tadashi; and Yaguchi, Hiroyasu,3,469,400.
Yaguchi, Keiichi: *See*—
Yanagimachi, Akio; Iwasawa, Takashi; Masuko, Hitoshi; and Yaguchi, Keiichi,3,454,713.
Yagusic, George J., to General Time Corporation. Delay on de-energization electronic timer circuit. 3,436,607, 4-1-69, Cl. 317-142.
Yahagi, Masakichi: *See*—
Orita, Michio; Yahagi, Masakichi; and Enomoto, Chiyouzi,3,442,908.
Yahagi Seitetsu Kabushiki Kaisha: *See*—
Tada, Yoshinosuke; Mizuno, Syoji; Kashima, Syunsaku; Yasui, Seiichi; and Sugiura, Taku, 3,420,453.
Yahner, Gilbert I., to Scherer, R. P., Corporation. Crank for loading hypodermic jet injector. 3,476,110, 11-4-69, Cl. 128-173.
Yaiko, Leonard: *See*—
Vogel, Paul W.; and Yaiko, Leonard,3,462,280.
Yajima, Yukio: *See*—
Fujiwara, Goro; Oda, Takeshi; Todo, Nobuyoshi; and Yajima, Yukio,3,436,342.
Yakeno, Koji: *See*—
Kobayashi, Yoshichika; Yakeno, Koji; and Takagawa, Masanori,3,461,077.
Yakima Valley Equipment Co., Inc.: *See*—
Jesperson, Leslie S., 3,474,604.
Yakimenko, Nikolai Savvich: *See*—
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.
Yakimik, Harry, Jr., to Tenneco Chemicals, Inc. Production of salts of organic acids. 3,458,566, 7-29-69, Cl. 260-521.
Yakovich, Ninel Iosifovna; Khcheyan, Khachik Egorovich; Izrael, Larisa Borisovna; Pavlichev, Alexei Fedorovich; and Kondtratieva, Nina Nikolaevna. Process for the production of divinylbenzenes from diacetylbenzenes. 3,439,059, 4-15-69, Cl. 260-669.
Yakovlev, Georgy Konstantinovich: *See*—
Izergina, Evgenia Valentinovna; Yakovlev, Georgy Konstantinovich; Zakharova, Antonina Dmitrievna; and Komin, Nikolai Egorovich,3,450,635.
Yale, Harry L.: *See*—
Dondzila, Frank A.; Restivo, Albert R.; and Yale, Harry L.,3,426,020.
Yale, Harry L., to Squibb, E. R., & Sons, Inc. 2,3-Dihydro-5 and 6-substituted-2-phenyl-4(1H)- quinazolinones. 3,455,920, 7-15-69, Cl. 260-251.
Yale, Harry L., to Squibb, E. R., & Sons, Inc. Substituted 2,3-dihydro-4(1H)- quinazolinones. 3,463,778, 8-26-69, Cl. 260-251.
Yale, Harry L.; and Bernstein, Jack, to Squibb, E. R., & Sons, Inc. Dibenzoazathiacycloalkane carboxamides and related oxa compounds. 3,452,046, 6-24-69, Cl. 260-327.
Yale, Harry Louis; and Sowinski, Francis A., to Squibb, E. R., and Sons Inc., mesne. Dihydrodibenzazocines. 3,448,102, 6-3-69, Cl. 260-239.
Yale, Harry Louis; Sowinski, Francis Alexander; and Bernstein, Jack, to Olin Mathieson Chemical Corporation. Novel process for preparing dihydrobenzoxazepines. 3,454,598, 7-8-69, Cl. 260-333.
Yale, Ramon L.; and Mathers, James E., to Sylvania Electric Products, Inc. Method of preparing phosphors. 3,484,381, 12-16-69, Cl. 252-301.4
Yallen, Stanley. Electrophoresis apparatus with membrane strip holding means. 3,421,998, 1-14-69, Cl. 204-299.
Yamada, Akira; and Aruga, Tsuyoshi, to Daikin Kogyo Kabushiki Kaisha. Composition and process for surface treating fluorocarbon resin. 3,440,088, 4-22-69, Cl. 117-138.8
Yamada, Hiraku: *See*—
Ouchi, Shunji; Yamada, Hiraku; Kameyama, Naohito; Kurihara, Masakazu; Senoh, Saburo; and Sowa, Tuneo,3,475,409.
Yamada, Hiroshi: *See*—
Moriyama, Hiromi; Yamada, Hiroshi; Nakanishi, Tsunemoto; and Kiriyama, Toshikatsu,3,443,312.
Yamada, Hirosuke; Shishido, Kyoji; Hoshino, Takao; Kobayashi, Seizaburo; and Sato, Isami, to Tohoku Yakult Seizo Kabushiki Kaisha. Process of producing an active substance for stimulating the function of the reticulo- endothelial system. 3,462,412, 8-19-69, Cl. 260-209.
Yamada, Hisashi: *See*—
Shima, Takeo; and Yamada, Hisashi,3,433,770.
Yamada, Hisayoshi, to Victor Company of Japan, Limited. Key switch for electronic keyed instruments. 3,480,744, 11-25-69, Cl.
Yamada, Katsunori: *See*—
Takahashi, Miyao; Ito, Yukihiko; Yamada, Katsunori; and Amemiya, Mitsuo,3,483,061.

Yamada, Katsuo, to Nissan Jidosha Kabushiki Kaisha. Automatic shifting device of automatic speed change gear for automobiles. 3,463,180, 8-26-69, Cl. 137-269.
Yamada, Kazuyoshi; and Doi, Juro, to Mitsubishi Jukogyo Kabushiki Kaisha. Watertight seal assembly. 3,421,469, 1-14-69, Cl. 114-77.
Yamada, Kazuyoshi; and Doi, Juro, to Mitsubishi Jukogyo Kabushiki Kaisha. Water-tight seal assembly. 3,433,198, 3-18-69, Cl. 114-77.
Yamada, Kazuyoshi; Wakazaki, Hiroshi; and Doi Juro, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of cutting the hull of a ship. 3,433,197, 3-18-69, Cl. 114-77.
Yamada, Kenichi, to Nippon Electric Company Limited. Over-write preventing paper feed device for a remote automatic graphic telecommunication transmitter. 3,475,554, 10-28-69, Cl. 178-42.
Yamada, Kiyoshi; Takeuchi, Rikio; Morimoto, Ikuhisa; and Asano, Tatsuro, to Matsushita Denko Kabushiki Kaisha. Device for clamping instruments to panels. 3,469,051, 9-23-69, Cl. 200-168.
Yamada, Kozo; Saji, Yasuo; Yamamoto, Ichiro; and Ikegami, Shigeru, to Toho Beslon Kabushiki Kaisha. Method of manufacturing acrylic fibers and the related products. 3,485,913, 12-23-69, Cl. 264-210.
Yamada, Masakazu; and Komoda, Hayashi, to Nisshin Sangyo Kabushiki Kaisha, and Masakazu Yamada & Hayashi Komoda. Method of imparting flavor to smoking tobaccos. 3,477,443, 11-11-69, Cl. 131-144.
Yamada, Masakazu; Komota, Hayashi; and Mano, Fumiyoshi. Method of enhancing the flavor of alcoholic beverages. 3,449,128, 6-10-69, Cl. 99-31.
Yamada, Masami; Tamura, Michio; and Adachi, Hiroshi, to Sony Corporation. Accurate registration of phosphor strips in kinescopes by means of a transparent photograph of the post-deflection grid in combination with a positioning mask. 3,437,482, 4-8-69, Cl. 96-36.1
Yamada, Mitsumasa: *See*—
Toda, Tadahide; Yamada, Mitsumasa; and Obata, Haruyuki,3,439,703.
Yamada, Shigeki: *See*—
Sugimoto, Norio; Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao,3,440,279.
Yamada, Shoichi: *See*—
Naito, Ryunosuke; and Yamada, Shoichi,3,467,696.
Yamada, Shunichi; Achiwa, Kazuo; Terashima, Shiro; and Iwaki, Akio; said, to Kazuo, said Terashima, and said Iwala assors. to said Shunichi Yamada. DL-α-Alkyl-α-amino acid and intermediates therefor. 3,422,135, 1-14-69, Cl. 260-471.
Yamada, Tadashi; and Tsujimoto, Shinichi, to Tadao Yamaoka. Precombustion chamber of diesel engine. 3,443,553, 5-13-69, Cl. 123-32.
Yamada, Tadashi: *See*—
Yamashita, Akio; Tsuzaki, Takehiro; and Yamada, Tadashi,3,471,323.
Yamada,Takeo, to Nippon Kogaku K.K. Method for producing resistances of the multi-layer type. 3,432,922, 3-18-69, Cl. 29-620.
Yamada, Takeo, to Nippon Kogaku K.K. Photoelectric exposure meter for a camera. 3,450,016, 6-17-69, Cl. 95-10.
Yamada, Takeo, to Nippon Kogaku K.K. Exposure measuring mechanism of cameras. 3,485,154, 12-23-69, Cl. 95-10.
Yamada, Taketoshi: *See*—
Sugahara, Yujiro; Yamada, Taketoshi; Noshi, Yoshibumi; and Matsuo, Shyoji,3,461,081.
Yamada, Yahiko: *See*—
Takami, Katsumi; Yamada, Yahiko; Suda, Kyo; and Koga, Masashi,3,453,434.
Yamada Yasuhiro: *See*—
Matsui, Masanao; Uzo, Keizo; Yamada Yasuhiro; and Wakaki, Shigetoshi,3,420,846.
Matsui, Masanao; Uzu, Keizo; Yamada, Yasuhiro; and Wakaki, Shigetoshi,3,444,182.
Matsui, Masanao; Yamada, Yasuhiro; Hirata, Tadashi; and Wakaki, Shigetoshi,3,450,705.
Matsui, Masano; Yamada, Yasuhiro; Uzu, Keigo; Hirata, Tadashi; and Wakaki, Shigetoshi,3,429,894.
Yamada, Yoshikazu; and Garland, Thomas H., to Bell & Howell Company. Light sensitive composition comprising an organic amine and an halogen compound in a hydrophilic binder. 3,476,562, 11-4-69, Cl. 96-88.
Yamada, Yoshikazu; and Storm, Lester F. M., to Bell & Howell Company. Photo process. 3,485,629, 12-23-69, Cl. 96-33.
Yamada, Yoshio: *See*—
Kano, Saburo; Yamada, Yoshio; and Watanuki, Shigeo,3,429,675.
Yamada, Yoshitaka; Kumashiro, Izumi; Takenishi, Tadao; and Suzuki, Katsumi. 4-Cyanoimidazole-5-carboxamide. 3,468,901, 9-23-69, Cl. 260-309.
Yamada, Yumizuru: *See*—
Abe, Kazuo; Kokubo, Ryo; Yamada, Yumizuru; Nagakura, Mizuhiko; and Shima, Koji,3,432,274.
Yamagata, Kazumi; and Kamisaka, Kazuo, to Daiho Construction Company, Limited. Method of building concrete structures in water bottoms. 3,464,212, 9-2-69, Cl. 61-46.
Yamagishi, Hidehisa; and Takeuchi, Masao, to Nippon Kokan Kabushiki Kaisha. Method of anti-corrosive treatment on the surface of iron and steel materials. 3,484,347, 12-16-69, Cl. 204-56.
Yamagishi, Hisato: *See*—
Morita, Hiroshi; Fuse, Motoyosi; Iwasaki, Sadaya; Yamagishi, Hisato; Kawaguchi, Syojiro; and Tanigawa, Koichiro,3,476,976.
Yamagishi, Hitoshi: *See*—
Tanaka, Yukio; Soya, Katsuji; and Yamagishi, Hitoshi,3,480,486.
Yamagishi, Kikuo: *See*—
Kimura, Shiro; Ikeda, Teppei; Yamagishi, Kikuo; and Kobayashi, Teruo,3,475,173.
Yamagishi, Yasuo: *See*—
Takagi, Haruo; and Yamagishi, Yasuo,3,450,585.
Yamaguchi, Akira: *See*—
Hashimoto, Masao; Yamaguchi, Akira; and Nishimura, Hironobu,3,445,811.
Yamaguchi, Gennosuke. Valved tag. 3,430,842, 3-4-69, Cl. 229-62.5
Yamaguchi, Goichi; and Takenaka, Shigeo, to Nippon Kayaku Company, Ltd. Process for the oxidation of olefins to aldehydes and acids. 3,454,630, 7-8-69, Cl. 260-533.
Yamaguchi, Goichi; and Takenaka, Shigeo, to Nippon Kayaku Company, Ltd. Production of unsaturated aliphatic acids. 3,471,556, 10-7-69, Cl. 260-530.
Yamaguchi, Hachiro; and Nakano, Keiji, to Nitto Chemical Industry Co., Ltd., and Zaidanhojin Nitto Rikagaku Kenkyujo. Bis-tertiary-amine salts of imidodisulfonic acid. 3,442,902, 5-6-69, Cl. 260-294.8
Yamaguchi, Hideo: *See*—
Otsuka, Masatomi; Koumura, Seizo; Yamaguchi, Hideo; and Kume, Hidetoshi,3,481,701.
Yamaguchi, Hiromi: *See*—
Shimamoto, Takatsugu; Hiyamuda, Shota; Fujita, Shigeru; Nozoe, Akihiko; Yamaguchi, Hiromi; and Eguchi, Jutaro,3,423,910.
Yamaguchi, Hiroyuki; and Takada, Mituho, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for retaining flame and soil resistances to fabrics. 3,436,250, 4-1-69, Cl. 117-137.
Yamaguchi, Kazuhide: *See*—
Hirata, Toshio; Arai, Tashiro; and Yamaguchi, Kazuhide,3,485,095.
Yamaguchi, Keizo. Device for gasifying and Combusting light petroleum by utilizing air under presure. 3,460,895, 8-12-69, Cl. 431-116.
Yamaguchi, Ken: *See*—
Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken,3,450,599.
Yamaguchi, Koretaka: *See*—
Minekawa, Saburo; Yamaguchi, Koretaka; Toyomoto, Kazuo; Fujimoto, Einosuke; and Suzuki, Teruhiko,3,449,179.
Minekawa, Saburo; Yamaguchi, Koretaka; and Sakamoto, Kuniaki,3,470,144.
Yamaguchi, Masaichiro: *See*—
Mogi, Shichizaemon; Toei, Ryozo; and Yamaguchi, Masaichiro,3,456,575.
Yamaguchi, Masatoshi; Howard, Frederick D.; and Pratt, Harlan K., to Gilmont, Roger, Instruments, Inc. Manometer calibrating device and methods. 3,459,032, 8-5-69, Cl. 73-4.
Yamaguchi, Taro: *See*—
Toda, Tadahide; Hanaoka, Masanori; and Yamaguchi, Taro,3,473,626.
Yamaguchi, Terumoto: *See*—
Aoki, Katsuo; and Yamaguchi, Terumoto,3,436,812.
Yamaguchi, Terumoto, to Nippon Denso Kabushiki Kaisha. Helical strip forming and takeup means for the electric stator core. 3,452,569, 7-1-69, Cl. 72-145.
Yamaguchi, Terumoto, to Nippon Denso Kabushiki Kaisha. Method for producing commutators for miniature electric machines. 3,482,307, 12-9-69, Cl. 29-597.
Yamaguchi, Yoshio: *See*—
Fujii, Kiyoshi; Asogawa, Tatuo; Yamaguchi, Yoshio; Fujii, Chikaaki; Noguchi, Yukihide; and Funakoshi, Yoshiro,3,483,831.
Yamaha Halsudoki Kabushiki Kaisha: *See*—
Horiuchi, Kotaro; and Takeshige, Akira, 3,471,876.
Yamakawa, Hitoshi: *See*—
Umahashi, Minoru; and Yamakawa, Hitoshi,3,436,523.
Umahashi, Minoru; and Yamakawa, Hitoshi,3,478,665.
Yamaki, Kiyoshi: *See*—
Mayumi, Kanji; Yamaki, Kiyoshi; Konishi, Akio; Suzuki, Shigeyuki; and Kiyama, Soji,3,428,482.
Yamamori, Kakunosuke: *See*—
Misaka, Yoshisuke; Yamamori, Kakunosuke; Machida, Masahiro; and Nakata, Michio,3,442,104.
Yamamoto, Akira: *See*—
Fukuda, Jun-Ichi; Tashiro, Kijuro; Yamamoto, Akira; and Katsuyama, Akihiko,3,457,244.

Yamamoto, Albert K.: *See—*
Boyd, Thomas R.; Cosenza, Frank J.; and Yamamoto, Albert K.,3,477,333.
Yamamoto Denki Kogyo Kabushiki Kaisha: *See—*
Soeda, Katsuzi, 3,457,486.
Yamamoto, Hidesuke. Continuous padding method using high frequency current. 3,455,372, 7-15-69, Cl. 164-92.
Yamamoto, Hirohiko: *See—*
Shiraishi, Masamichi; and Yamamoto, Hirohiko,3,467,952.
Yamamoto, Hiroichi: *See—*
Hatta, Ryozo; Kinugawa, Jiro; Yamamoto, Hiroichi; Sumina, Ikuo; Tamura, Bunzo; and Suzuki, Shigekazu,3,458,638.
Yamamoto, Hiroshi; and Ikeda, Koichi, to Nippon Electric Company Limited. Vitreous material for use in semiconductor devices. 3,442,993, 5-6-69, Cl. 264-61.
Yamamoto, Hiroshi; Ikeda, Koichi; and Minagawa, Katsuji, to Nippon Electric Company Limited. Hermetically sealed body of ceramic, metal and glass and method therefor. 3,468,752, 9-23-69, Cl. 161-196.
Yamamoto, Hisao; and Iwaasa, Noboru, to Ube Industries, Ltd. Synthetizing reactor equipped with temperature control device for catalyst layer. 3,466,152, 9-9-69, Cl. 23-289.
Yamamoto, Hisao; Nakao. Masaru; and Maruyama, Isamu, to Sumitomo Chemical Company, Ltd. Quinoxaline derivatives. 3,479,348, 11-18-69, Cl. 260-240.
Yamamoto, Ichiro: *See—*
Yamada, Kozo; Saji, Yasuo; Yamamoto, Ichiro; and Ikegami, Shigeru,3,485,913.
Yamamoto, Kazumi; Iwasa, Mitsuhiro; Ema, Kenji; and Arai, Noboru, to Mitsui Kagaku Kogyo Kabushiki Kaisha, a/k/a Mitsui Chemical Industry Co., Ltd. Process for the production of flame resistant polyurethane foams. 3,422,037, 1-14-69, Cl. 260-2.5
Yamamoto, Kazumoto: *See—*
Ito, Makoto; and Yamamoto, Kazumoto,3,432,192.
Yamamoto, Keita, to Rikagaku Kenkyusho. Method of making a woven fiber circuit element. 3,451,126, 6-24-69, Cl. 29-576.
Yamamoto, Kenichi, to Toyo Kogyo Company Limited. Multi-unit rotary piston internal combustion engine. 3,476,092, 11-4-69, Cl. 123-8.
Yamamoto, Kenichi. Rotary piston engine. 3,483,849, 12-16-69, Cl. 123-8.
Yamamoto, Kenichi; and Satoh, Hideya, to Toyo Kogyo Company Limited. Rotary piston internal combustion engine. 3,483,850, 12-16-69, Cl. 123-8.
Yamamoto, Kiyoshi, to Tokyo Shibaura Electric Co., Ltd. Electrode control systems of a multi-needle electrode type electrostatic recording device. 3,469,028, 9-23-69, Cl. 178-6.6
Yamamoto, Kiyoshi: *See—*
Tsuchiya, Takeshi; Takahashi, Tetsuo; Yamamoto, Kiyoshi; Yanai, Akito; Takiura, Mikio; and Kano, Toshio,3,472,205.
Yamamoto, Koichi: *See—*
Hashimoto, Tsunekazu; Yamamoto, Koichi; Someya, Akira; and Iduda, Isunekazu,3,462,631.
Yamamoto, Kozo, to Matsushita Electric Industrial Co., Ltd. Tape guide device for magnetic recording and reproducing apparatus. 3,462,057, 8-19-69, Cl. 226-181.
Yamamoto, Makoto: *See—*
Nakamura, Osamu; Hinaga, Yasushi; Yamamoto, Makoto; Ohta, Susumu; Kawai, Tadashi; and Mizusawa, Kenichi,3,484,866.
Yamamoto, Makoto; Fujisawa, Minoru; and Watanabe, Eiji, to Nihon Denshi Kabushiki Kaisha. High voltage resistor. 3,441,894, , Cl. 338-231.
Yamamoto, Manabu: *See—*
Dodo, Taro; and Yamamoto, Manabu,3,431,461.
Yamamoto, Masakazu: *See—*
Sugiyama, Hiroshi; Yamamoto, Masakazu; and Otsuka, Hideo,3,483,182.
Yamamoto, Masao: *See—*
Hayashi, Shinichi; and Yamamoto, Masao,3,458,409.
Sugimoto, Norio; Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao,3,440,279.
Yamamoto, Masato: *See—*
Fukui, Saburo; and Yamamoto, Masato,3,429,792.
Yamamoto, Minoru: *See—*
Yamamoto, Takeo; and Yamamoto, Minoru,3,453,373.
Yamamoto, Mititaka, to Tateisi Electronics Co. Ticket issuing apparatus. 3,440,940, 4-29-69, Cl. 95-12.
Yamamoto, Mititaka. Vending apparatus for use with credit cards. 3,457,391, 7-22-69, Cl. 235-61.6
Yamamoto, Mititaka; Mizuta, Yukio; Tanaka, Toshio; and Asada, Takeo, to Omron Tateisi Electronics Co.(Tateisi Denki Kabushikikaisha). Automatic credit loan machine. 3,443,675, 5-13-69, Cl. 194-4.
Yamamoto, Munemasa: *See—*
Enoki, Kichiji; Adachi, Susumu; Sakata, Shigeo; Kumaki, Mitsuo; Ikari, Eiichi; Takakura, Hiroshi; Takahashi, Nobuyasu; Takashima, Komei; and Yamamoto, Munemasa,3,459,788.
Yamamoto, Naonari; Masuda, Mitsuo; Saikawa, Toshihiko; Tsubota, Akira; Shida, Yasuo; and Matsumura, Toshiji, to Toyo Boseki Kabushiki Kaisha. Apparatus for producing continuously combed sliver from carded sliver. 3,440,688, 4-29-69, Cl. 19-65.
Yamamoto Noboru; and Higuchi, Noboru, to NGK Insulators, Ltd. Method for producing porcelain articles. 3,459,567, 8-5-69, Cl. 106-46.
Yamamoto, Nobuo: *See—*
Nishio, Fumihiko; Sugiyama, Mitsunori; Yamamoto, Nobuo; and Hayashi, Jun,3,484,242.
Yamamoto, Ryuzo: *See—*
Furukawa, Junji; Morikawa, Hiroyuki; and Yamamoto, Ryuzo,3,476,820.
Yamamoto, Setsuwo, to Hitachi, Ltd. Amplifier providing combined limiter and squelch functions. 3,439,276, 4-15-69, Cl. 325-348.
Yamamoto, Shinichiro; and Mito, Hideo, to Nippon Electric Company Limited. Electron beam generating device. 3,472,999, 10-14-69, Cl. 219-121.
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Takata, Toshikatsu; Matsuda, Naohiro; Hidaka, Kizo; and Nishiguchi, Masahisa, to Matsushita Electric Industrial Co., Ltd. Layer-built dry batteries. 3,440,105, 4-22-69, Cl. 136-108.
Yamamoto, Takehiko: *See—*
Fukumoto, Juichiro; and Yamamoto, Takehiko,3,431,176.
Yamamoto, Takeo; and Yamamoto, Minoru, to Fujikura Cable Works, Ltd., The. High voltage electric power cables. 3,453,373, 7-1-69, Cl. 174-25.
Yamamoto, Tatsuo: *See—*
Oka, Katsuaki; Tokiura, Shohei; Yamamoto, Tatsuo; Sasaki, Yoshikazu; and Ishida, Hideo,3,455,885.
Tokiura, Shohei; Ishida, Hideo; Sasaki, Yoshikazu; and Yamamoto, Tatsuo,3,454,537.
Yamamoto, Tetsuya: *See—*
Maeda, Yutaka; Maeda, Kaoru; Yamamoto, Tetsuya; Kashiwagi, Tetsuo; Hada, Yukihiro; Kato, Tokue; and Gomi, Nagao,3,434,277.
Yamamoto, Toshiaki: *See—*
Fujimoto, Masahiro; and Yamamoto, Toshiaki,3,467,218.
Yamamoto, Toshio: *See—*
Aoyama, Shiro; and Yamamoto, Toshio,3,481,883.
Yamamoto, Tsuzuku; Senda, Kazuo; Ichikawa, Akira; Ohzeki, Takao; Honda, Masakazu; Masunaka, Shigenobu; and Sasaki, Minoru, to Mitsubishi Rayon Co., Ltd. Dyeable polypropylene fibers containing a phenol salt-amine complex and, optionally, a fatty acid salt. 3,437,620, 4-8-69, Cl. 260-23.
Yamamoto, Yoshihiro; Yoshihara, Mitsuo; Ikeguchi, Takeru; and Sonoda, Sanenobu, to Nitto Electric Industrial Co., Ltd. Curable epoxy resin composition. 3,476,702, 11-4-69, Cl. 260-37.
Yamamoto, Yoshio: *See—*
Kobayashi, Tsuneo; Tatematsu, Kenzo; Yoshimura, Koichi; and Yamamoto, Yoshio,3,458,892.
Yamamoto, Yukimasa: *See—*
Kaneko, Kyozo; Matsuzawa, Tadahiro; Okouchi, Hideo; Nishimura, Tadao; and Yamamoto, Yukimasa,3,466,338.
Yamamura, Katsumi; and Hayashi, Shinichi, to Kabushiki Kaisha Suwa Seikosha. Bright gold plating solution and process. 3,475,290, 10-28-69, Cl. 204-43.
Yamamura, Kazuomi: *See—*
Kurimura, Toshio; and Yamamura, Kazuomi,3,422,341.
Kurimura, Toshio; Yamamura, Kazuomi; and Murahashi, Tsuneo,3,454,862.
Yamamura, Masami; and Ogawa, Kazuo, to Sango Toki Kabushiki Kaisha. Radiant gas burner element. 3,472,601, 10-14-69, Cl. 431-328.
Yamamura, Yuichi; and Ishiyama, Taro, to Takeda Chemical Industries, Ltd. Method for treatment of congestive heart failure with coenzyme Qn. 3,452,144, 6-24-69, Cl. 424-331.
Yamanaka, Masaru: *See—*
Imura, Shinichi; and Yamanaka, Masaru,3,442,924.
Yamanaka, Takashi; Kamino, Tadashi; and Ikeda, Hiroshi, to Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric Works Ltd.). DC power supply apparatus for supplying a constant voltage to a load. 3,461,309, 8-12-69, Cl. 307-66.
Yamanaka, Toshio; Yuki, Shiro; and Shibatani, Haruo, to Mitsubishi Petrochemical Co., Ltd. Process for preparing alkyl aryl compounds. 3,474,154, 10-21-69, Cl. 260-671.
Yamanaka, Toshio: *See—*
Tashiro, Megumi; Wada, Masamichi; Yamanaka, Toshio; and Tani, Kenichi,3,473,937.
Yamane, Mikiya, to Kabushiki Kaisha Hitachi Seisakusho. Photoionization detector for gases and vapors. 3,454,828, 7-8-69, Cl. 315-111.
Yamane, Reiichi: *See—*
Mizutani, Yukio; Tesima, Wataru; Akiyama, Sumio; Yamane, Reiichi; and Ihara, Hirohumi,3,451,951.
Yamane, Seiji. Machine usable as a rotary pump or a heat engine. 3,444,820, 5-20-69, Cl. 103-140.
Yamanishi, Yasuhito; and Yamanishi, Yasuhito, to Shiraimatsu Shinyaku Kabushiki Kaisha. Method of synthesizing adrenochrome monoaminoguanidine. 3,445,478, 5-20-69, Cl. 260-326.15
Yamanishi, Yasuhito: *See—*
Yamanishi, Yasuhito; and Yamanishi, Yasuhito,3,445,478.

Yamano, Kiyoshi: *See—*
Agatsuma, Tadao; and Yamano, Kiyoshi,3,466,129.
Yamanouchi, Kiyoshi: *See—*
Kishi, Kanesuke; Kawakami, Hirotake; and Yamanouchi, Kiyoshi,3,449,523.
Yamanouchi Pharmaceutical Co., Ltd.: *See—*
Murakami, Masuo; Takahashi, Kozo; Murase, Kiyoshi; and Hirata, Yasubumi, 3,444,167.
Murakami, Masuo; Takahashi, Kozo; and Matsumoto, Jun, 3,459,735.
Murakami, Masuo; Takahahi, Kozo; Matsumoto, Jun; and Iwamoto, Hidenori, 3,461,114.
Murakami, Masuo; Takahashi, Kozo; Matsumoto, Jun; Murase, Kiyoshi; Tamazawa, Kazuharu; Kawamura, Shigeo; and Terao, Junichi, 3,476,777.
Murakami, Masuo; Kawashima, Yuji; and Sano, Kengi, 3,482,025.
Yamaoka, Kojiro. Method of chamfering the teeth of a gear. 3,426,485, 2-11-69, Cl. 51-287.
Yamaoka, Tsuguo: *See—*
Tsunoda, Takahiro; Yamaoka, Tsuguo; Itano, Kohei; and Hori, Haruo,3,486,900.
Yamasaki, George K.: *See—*
Gilles, Wallace; Yamasaki, George K.; and Burger, J. C.,3,476,970.
Yamasaki, Shohachiro. Rotary transmitting apparatus of purified and humidified air. 3,479,801, 11-25-69, Cl. 55-232.
Yamase, Yoshiaki; and Kutsuma, Teruo, to Yawata Chemical Industry Co., Ltd. Process for the production of trioxane copolymers. 3,428,590, 2-18-69, Cl. 260-67.
Yamashiki, Takashi: *See—*
Mihara, Kazuhiko; and Yamashiki, Takashi,3,466,139.
Mihara, Kazuhiko; Yamashiki, Takashi; and Takano, Mitsuo,3,432,429.
Yamashita, Akio, to Matsushita Electric Industrial Co., Ltd. Semiconductor devices. 3,437,891, 4-8-69, Cl. 317-235.
Yamashita, Akio; and Suzuki, Takashi, to Matsushita Electric Industrial Co., Ltd. Method of thermographic reproduction. 3,447,989, 6-3-69, Cl. 156-230.
Yamashita, Akio; and Tanaka, Masaru, to Matsushi Electric Industrial Co., Ltd. Pressure-responsive semiconductor device. 3,444,444, 5-13-69, Cl. 317-235.
Yamashita, Akio; and Tanaka, Masaru, to Matsushita Electric Industrial Co., Ltd. Semiconductor comprising plural deep-level-forming impurities. 3,448,350, 6-3-67, Cl. 317-234.
Yamashita, Akio; and Tanaka, Masaru, to Matsushita Electric Industrial Co., Ltd. Negative resistance semiconductor device having an intrinsic region. 3,461,356, 8-12-69, Cl. 317-234.
Yamashita, Akio; Tsuzaki, Takehiro; and Yamada, Tadashi, to Matsushita Electric Industrial Co., Ltd. Process for forming a baked film of inorganic materials. 3,471,323, 10-7-69, Cl. 117-201.
Yamashita, Akio: *See—*
Tanaka, Masaru; and Yamashita, Akio,3,465,176.
Yamashita, Gentaro: *See—*
Ichikawa, Yataro; Yamashita, Gentaro; and Iwata, Kazumi,3,465,013.
Yamashita, Hachiro: *See—*
Tokimatsu, Kenji; and Yamashita, Hachiro,3,457,047.
Yamashita, Katsunori. Automatic vending machine control system. 3,482,670, 12-9-69, Cl. 194-10.
Yamashita, Katsuyuki: *See—*
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,491.
Mizuno, Hideo; Akutsu, Hidezo; Moriguchi, Eijiro; Yamashita, Katsuyuki; Kamiya, Shigeru; Iwata, Koshi; Tawara, Yoshio; and Iga, Atsushi,3,427,492.
Yamashita, Nagahiro, to Dai Nihon Bungu Kabushiki Kaisha, t/a Japan Stationery Co., Ltd., the. Mechanical lead pencil. 3,477,791, 11-11-69, Cl. 401-64.
Yamashita, Tadaoki; Sakai, Kunio; Nada, Naohiro; and Kitamura, Saburo, to Matsushita Electric Industrial Co., Ltd. Thermo-luminescence type radiation dosimeter. 3,485,766, 12-23-69, Cl. 252-301.1
Yamashita, Toshio; Yoshida, Manabu; and Tsukamoto, Hirokazu, to Matsushita Electric Industrial Co., Ltd. Method of making films of inorganic compounds. 3,466,190, 9-9-69, Cl. 117-201.
Yamashita, Toshiyuki: *See—*
Nakahara, Teiji; Fukunaga, Mitsuo; and Yamashita, Toshiyuki,3,445,998.
Yamasita, Keniti; and Yamasita, Zyozi. Block making machine. 3,426,404, 2-11-69, Cl. 25-41.
Yamasita, Zyozi: *See—*
Yamasita, Keniti; and Yamasita, Zyozi,3,426,404.
Yamatani, Noboru: *See—*
Aoki, Koichi; Yamatani, Noboru; and Takeuchi, Hideo,3,464,333.
Yamate, Emiko Y. Orthopedic device for patient with immobilized legs. 3,423,773, 1-28-69, Cl. 5-68.
Yamate, Shiro; and Araikawa, Noboru, to Mitsubishi Jukogyo Kabushiki Kaisha. Interlocking arrangement for rotating shafts. 3,468,178, 9-23-69, Cl. 74-339.
Yamato, Hiroaki: *See—*
Yasunaga, Hidetoshi; Ichikawa, Tatsuo; Yamato, Hiroaki; Ikeda, Mitsuru; Ozawa, Nobuo; and Ueda, Kenichi,3,464,965.
Yamato, Junji; Tsukada, Keiichi; Kajiwara, Masaichi; and Ono, Masamichi, to Nippon Telegraph and Telephone Public Corporation. Equational timing system in time division multiplex communication. 3,479,462, 11-18-69, Cl. 179-15.
Yamauchi, Fumio: *See—*
Akashi, Tsuneo; Takahashi, Masao; Tsubouchi, Norio; Ohno, Tomeji; and Yamauchi, Fumio,3,461,071.
Yamauchi, Junnosuke; Eguchi, Tamotsu; and Matsubayashi, Kanji, to Kurashiki Rayon Co., Ltd. Process for producing formaldehyde copolymer having excellent dyeability. 3,425,992, 2-4-69, Cl. 260-67.
Yamauchi, Michiaki: *See—*
Kobayashi, Kazuo; and Yamauchi, Michiaki,3,431,073.
Yamauchi, Norifumi: *See—*
Miyake, Yasuhiko; Adachi, Saburo; Yamauchi, Norifumi; Hayashi, Toshio; and Akimoto, Masamichi,3,426,041.
Yamauchi Rubber Industry Co., Ltd.: *See—*
Fukuyama, Yasuo, 3,453,692.
Yamauchi, Saburo; Taura, Teruchika; Isogai, Yuzuru; and Seino, Hideki, to Japan Gas-Chemical Company, Inc. Hydrogen permeable membrane and hydrogen permeating assembly. 3,469,372, 9-30-69, Cl. 55-158.
Yamauchi, Tadafumi: *See—*
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi,3,457,226.
Yamauchi, Takayoshi: *See—*
Kudo, Shiro; Yada, Seiichi; and Yamauchi, Takayoshi,3,471,575.
Yamauchi, Yasuhiro: *See—*
Matsumoto, Yutaro; Hisatsune, Tadashi; Sasaki, Tsutomu; Mitsudo, Fumiaki; and Yamauchi, Yasuhiro,3,467,723.
Yamaura, Matsue: *See—*
Yamaura, Susumu; and Yamaura, Matsue,3,421,358.
Yamaura, Susumu; and Yamaura, Matsue. Swage apparatus. 3,421,358, 1-14-69, Cl. 72-408.
Yamawaki, Takeshi; and Usami, Masakatsu, to Mitsubishi Chemical Industries Limited. Catalyst for polymerization of 1,3-butadiene to cis-1,4-polybutadiene consisting of Co and/or Ni perchlorate • an organometallic compound of groups I-III of the periodic table. 3,484,425, 12-16-69, Cl. 260-94.3
Yamaya, Wataru; and Fujino, Sadao, to Mitsubishi Chemical Industries Limited. Disazo cationic dyestuffs containing a quaternary ammonium group. 3,454,552, 7-8-69, Cl. 260-155.
Yamazaki, Akihiro; Meguro, Takashi; Kumashiro, Izumi; and Takenishi, Tadao, to Ajinomoto Co., Inc. Preparation of guanosine and intermediates obtained thereby. 3,454,559, 7-8-69, Cl. 260-211.5
Yamazaki, Kiroku; and Kishi, Kazuo. Composite solid propellant containing preshaped (salt-metal-burning rate controller) particles. 3,454,437, 7-8-69, Cl. 149-21.
Yamazaki, Taizo: *See—*
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu,3,431,949.
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu,3,457,960.
Uto, Yoshimitsu; Yamazaki, Taizo; and Shinkawa, Toshikazu,3,461,917.
Yamazaki, Tamotu: *See—*
Mori, Kan; Suminoe, Taro; Yamazaki, Tamotu; Ishikawa, Tunezo; and Kogure, Akira,3,479,331.
Yamazaki, Toshio: *See—*
Ukita, Tomizo; Nakai, Masashi; Minami, Zenro; Yamazaki, Toshio; and Ootaka, Koda,3,455,696.
Yan, Calvin K. K.: *See—*
Ross, Richard F.; and Yan, Calvin K. K.,3,446,399.
Yan, Tsoung-Yuan, to Mobil Oil Corporation. Hydrodenitrogenation process with a catalysts containing silica-zirconia gel, a metal fluoride and a hydrogenation component. 3,444,074, 5-13-69, Cl. 208-254.
Yanabu, Osamu; Hada, Takashi; and Doi, Kazuyuki, to Fuji Iron & Steel Co., Ltd. Chromium plated steel sheet having an almost colorless and transparent chromate film. 3,479,162, 11-18-69, Cl. 29-195.
Yanagawa, Nobuyuki, to Kabushiki Kaisha Ricoh. Automatic separation mechanism for the use of a copying machine. 3,448,980, 6-10-69, Cl. 271-64.
Yanagawa, Nobuyuki, to Kabrishiki Kaisha Ricoh. Automatic separation mechanism for separating an original form and a light sensitive copy sheet in a copying machine. 3,452,980, 7-1-69, Cl. 271-64.
Yanagawa, Takayuki, to Nippon Electric Company, Limited. Avalanche transistor having reduced width in depletion region adjacent gate surface. 3,444,442, 5-13-69, Cl. 317-235.

Yanagawa, Yoshihiko: *See*—
Mori, Tadamichi; Yanagawa, Yoshihiko; and Suzuki, Naomichi,3,481,258.

Yanagida, Kiyomi; Hatano, Ikuo; and Masazumi, Kawai, to Sumitomo Chemical Company, Ltd. Aluminum alloy galvanic anodes. 3,464,909, 9-2-69, Cl. 204-197.

Yanagihara, Kotaro; and Suzuki, Takenori, to Fuji Tsushinki Seizo Kabushiki Kaisha. Laminated plate for electrical apparatus and method for making same. 3,463,698, 8-26-69, Cl. 161-186.

Yanagihara, Nobuyuki: *See*—
Fukuda, Masataro; Hirai, Taketsugu; Hino, Takashi; Shiramoto, Tomizo; Sawada, Isoo; and Yanagihara, Nobuyuki,3,443,999.

Yanagimachi, Akio; Iwasawa, Takashi; Masuko, Hitoshi; and Yaguchi, Keiichi, to Japan Broadcasting Corporation. Tape controlling system of magnetic recording and reproducing devices. 3,454,713, 7-8-69, Cl. 178-6.6

Yanagimoto Manufacturing Co., Ltd.: *See*—
Hozumi, Keichiro, 3,451,779.

Yanagisawa, Akimasa; Kanbe, Kenichi; Sano, Tsunenori; and Ishii, Tadashi, to Pilot Man-Nen-Hitsu Kabushiki Kaisha. Capless fountain pen. 3,427,112, 2-11-69, Cl. 401-107.

Yanagisawa, Sizuyasu: *See*—
Iwata, Namio; Takahashi, Koichi; Sato, Isao; and Yanagisawa, Sizuyasu,3,454,756.

Yanagisawa, Takere, to Kabushiki-Kaisha Dokosha. Method of producting explosive with high brisance. 3,477,888, 11-11-69, Cl. 149-18.

Yanagisawa, Toru, to Sumitomo Precision Products Company Limited. Indication apparatus of displacement by means of liquid pressure. 3,424,197, 1-28-69, Cl. 137-557.

Yanagisawa, Yuzuru: *See*—
Hayashi, Chisayo; Chiba, Yusuke; Tanaka, Eiji; Ochi, Shigeyuki; Yanagisawa, Yuzuru; and Ayabe, Masaaki,3,469,294.

Yanagita, Masaya; Kitahara, Masao; and Mitsui, Takashi, to Rikagaku Kenkyusho. Process for producing α,β-unsaturated carboxylic acid. 3,439,028, 4-15-69, Cl. 260-530.

Yanagita, Masaya; Mitsui, Takashi; and Kitahara, Masao. Process for producing isoprene from isobutylene and formaldehyde in one stage. 3,437,711, 4-8-69, Cl. 260-681.

Yanai, Akito. Videometer. 3,470,562, 9-30-70, Cl. 346-37.

Yanai, Akito: *See*—
Tsuchiya, Takeshi; Takahashi, Tetsuo; Yamamoto, Kiyoshi; Yanai, Akito; Takiura, Mikio; and Kano, Toshio,3,472,205.

Yanai, Hideyasu S.; and Jungster, Lore, to Rohm & Haas Company. Acrylate elastic threads and films. 3,468,976, 9-23-69, Cl. 260-883.

Yanai, Hisayoshi; Kodera, Hiroshi; and Migitaka, Masatoshi, to Hitachi, Ltd. Optoelectronic device having an interposed electromagnetic shield. 3,476,942, 11-4-69, Cl. 250-213.

Yanai, Yigal, to International Rectifier Corporation. High rise of current switching controlled rectifier. 3,440,454, 4-22-69, Cl. 307-309.

Yanami, Tetsuo: *See*—
Kato, Kichiro; Fujita, Hiroshi; Toyama, Teruhiko; Kiyohisa, Yukio; Yoshimoto, Takeo; and Yanami, Tetsuo,3,454,392.

Yanase, Akira; Tawara, Yoshio; Iga, Atsushi; and Hirota, Hozumi, to Matsushita Electric Industrial Co., Ltd. Ferromagnetic material. 3,424,687, 1-28-69, Cl. 252-62.51

Yanase, Toshiro: *See*—
Ito, Miyaji; and Yanase, Toshiro,3,458,271.

Yancey, Warren L. Game and play apparatus for physically producing a travelling wave for propelling a wave-riding object therealong. 3,429,067, 2-25-69, Cl. 46-116.

Yando, Stephen, to General Telephone & Electronics Laboratories, Incorporated. Method and apparatus for fabricating an array of discrete elements. 3,439,416, 4-22-69, Cl. 29-625.

Yanez-Pastor, Julio G.; and Yanez-Pastor, Jenny. Kitchen utensil. 3,466,999, 9-16-69, Cl. 99-413.

Yanez-Pastor, Jenny: *See*—
Yanez-Pastor, Julio G.; and Yanez-Pastor, Jenny,3,466,999.

Yang, Julie Chi-Sun, to Johns-Manville Corporation. Slag cement compositions. 3,449,140, 6-10-69, Cl. 106-117.

Yang, Peter Quay. Sectional cabinet. 3,432,216, 3-11-69, Cl. 312-111.

Yang, Wang. Vehicle motion signalling system. 3,444,514, 5-13-69, Cl. 340-66.

Yanis, Conrad: *See*—
Brothman, Abraham; Bruckner, Alan J.; Halpern, Stephen J.; and Yanis, Conrad,3,456,163.

Yanishevsky, Gilbert, to Burroughs Corporation. Resistor matrix symbol generator. 3,482,239, 12-2-69, Cl. 340-324.

Yanishevsky, Gilbert, to Burroughs Corporation. Controlled-bias current amplifier. 3,483,425, 12-9-69, Cl. 315-18.

Yanishevsky, Gilbert; Miller, Bruce J.; and Savinese, Stanley J., to Burroughs Corporation. Deflection amplifier. 3,479,553, 11-18-69, Cl. 315-18.

Yankee, Francis E., to Crompton & Knowles Corporation. Spray gun. 3,458,138, 7-29-69, Cl. 239-428.

Yankee Metal Products Corp.: *See*—
Malachowski, Handry J., 3,420,490.

Yanko, John A.: *See*—
Dinbergs, Kornelius; and Yanko, John A.,3,475,390.

Yanko, Richard J.; Penrod, John K.; and Jensen, George W., to Arvin Systems, Inc. Numerically controlled automatic positioning and welding apparatus. 3,449,540, 6-10-69, Cl. 219-80.

Yanmar Diesel Engine Co., Ltd.: *See*—
Hamada, Yoshitsugu, 3,424,136.
Hamada, Yoshitsugu; Imai, Teruhiro; Maeda, Yukio; and Tsuchii, Kimitaka, 3,485,219.
Tado, Hiroshi, 3,424,135.

Yann, Carl C., to Chemetron Corporation. Method and apparatus for making nonpilferable container closures. 3,481,232, 12-2-69, Cl. 82-46.

Yann, Carl C.; Paskey, John W.; and Holzknecht, John F., Jr., to Chemetron Corporation. Method and apparatus for removing the outer surface of an embossment of a cylindrical skirt of a cap. 3,481,233, 12-2-69, Cl. 82-85.

Yano, Kaname: *See*—
Nakano, Taira; Goto, Asahiko; Yano, Kaname; and Shibata, Syojiro,3,453,704.

Yano, Nobumitsu; Fukushima, Masao; Satou, Terumasa; and Senoh, Saburo, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing nucleosides. 3,457,254, 7-22-69, Cl. 260-211.5

Yano, Tsurutake: *See*—
Arai, Hirokazu; and Yano, Tsurutake,3,487,100.

Yano, Yasushi; Ueno, Wataru; Nishio, Fumihiko; and Nakajima, Yosuke, to Fuji Shashin Film Kabushiki Kaisha. Antistatically finished photographic film. 3,457,076, 7-22-69, Cl. 96-87.

Yantz, Robert Charles: *See*—
Hearst, Thomas McChesney: and Yantz, Robert Charles,3,449,142.

Yanuka, Yehuda: *See*—
Sarel, Shalom; Yanuka, Yehuda; and Shalon, Yehuda,3,463,795.

Yanushkovaky, Vladimr Alexandrovich: *See*—
Fedotov, Igor Leonidovich; Yanushkovaky, Vladimr Alexandrovich; Taxar, Iegoshua Mikhailovich; and Olshvanger, Boris Akibovich,3,452,202.

Yao, Angelina Ngo: *See*—
Ratts, Kenneth Wayne; and Yao, Angelina Ngo,3,463,822.

Yao, David C. T.; Hirshfeld, Julian J.; and Reuben, Bertie J., to Monsanto Company. Method of preventing jute staining. 3,429,647, 2-25-69, Cl. 8-21.

Yarber, Gordon W.: *See*—
Kukel, Joseph; Chang, Kuo T.; and Yarber, Gordon W.,3,452,948.

Yarber, Gordon W.; and Chang, Kuo T. Stabilization control system. 3,471,105, 10-7-69, Cl. 244-1.

Yarbrough, Granville Ted. Bricklayer's gauge. 3,484,943, 12-23-69, Cl. 33-180.

Yarbrough, Henry F.: *See*—
Davis, John B.; and Yarbrough, Henry F.,3,457,044.

Yarbrough, Hodgie L.: *See*—
Harmon, James R.; and Yarbrough, Hodgie L.,3,465,987.

Yarbrough, Jack: *See*—
Resh, Kyle W.; and Yarbrough, Jack,3,445,197.

Yard, William J., to Australian Railway Equipment Supply Company Proprietary Limited, and Trak-Chief Manufacturing Proprietary Ltd. Tamping tool. 3,430,579, 3-4-69, Cl. 104-12.

Yard, William J., to Australian Railway Equipment Supply Company Proprietary Limited, and Trak-Chief Manufacturing Proprietary Ltd. Sleeper positioning machine. 3,451,349, 6-24-69, Cl. 104-9.

Yard, William J., to Australian Railway Equipment Supply Company Proprietary Limited, and Trak-Chief Manufacturing Proprietary Ltd. Rail lifter. 3,461,810, 8-19-69, Cl. 104-7.

Yard-Man, Inc.: *See*—
Hanson, Rudolph A.; and Deptula, Frank J., 3,445,991.
Hanson, Rudolph A.; and Fischer, John E., 3,445,992.
Hanson, Rudolph A.; Ziegler, Edward J.; and Fischer, John E., 3,466,855.

Yardley, Alfred, to Girling Limited. Booster for use in hydraulic systems particularly hydraulic braking systems. 3,422,621, 1-21-69, Cl. 60-54.5

Yardney Enterprises, Inc.: *See*—
Swift, Paul C., 3,434,469.

Yardney International Corporation: *See*—
Salcedo Gumucio, Ricardo, 3,468,714.
Solomon, Frank; and Himy, Albert, 3,450,566.
Solomon, Frank; Zeilicof, Frederica; Thompson, Lee V.; and Blumenstein, Carl R., 3,481,773.
Stachurski, Zbigniew, 3,440,098.

Yarger, Norman L.; and Liva, Robert H., to Xerox Corporation. Sheet handling apparatus. 3,434,710, 3-25-69, Cl. 271-51.

Yarina, William: *See*—
Gallay, Harry M.; Mainland, Albert F.; Teumin, Mota; and Yarina, William,3,464,274.

Yarish, Melvin: *See*—
Venkatesan, Peruvemba Swaminatha; and Yarish, Melvin,3,427,153.

Yariv, Amnon; Johnson, Fred M.; and El Sayed, Mostafa A., to Xerox Corporation, mesne. Far infra-red coherent light generator. 3,465,166, 92-69, Cl. 307-88.3
Yarme, Howard; and Saltz, Ira. Table structure. 3,433,183, 3-18-69, Cl. 108-12.
Yarnell, Orville G. Retractable typewriter support for desks. 3,428,382, 2-18-69, Cl. 312-208.
Yarovoi, Vyacheslav Savich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Yarrison, Walter W.: *See—*
Crossen, William P.; and Yarrison, Walter W.,3,439,384.
Yarrow, Hyman; and Whitefield, Martin. Pharmaceutical composition containing triacetate of anthralin. 3,450,820, 6-17-69, Cl. 424-311.
Yarrow, John C. Resurfacing machine. 3,457,576, 7-29-69, Cl. 15-21.
Yarway Corporation: *See—*
Hetz, Heinz K.; Brand, Warren H.; and Dabinett, George B., 3,467,017.
Yarwood, Thomas Alan: *See—*
Percival, George; and Yarwood, Thomas Alan,3,433,609.
Yasjukevich, Boris Ivanovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Yasuda, Akira, to Nippon Kogaku K.K. Photographic objective for precision copying. 3,450,463, 6-17-69, Cl. 350-177.
Yasuda, Kazuo; and Uchino, Koichi, to Hitachi, Ltd. Apparatus for spectrochemical analysis. 3,475,099, 10-28-69, Cl. 356-82.
Yasuda, Susumu; and Orui, Ryuzo, to Nippon Electric Company Limited. Travelling-wave tube amplifier having asymmetric magnetomotive force within the collector for pre- venting backflow of secondary electrons. 3,445,714, 5-20-69, Cl. 315-3.5
Yasuda, Yoshifumi, to Kurashiki Rayon Co., Ltd. Cigarette filters employing sugar esters. 3,443,566, 5-13-69, Cl. 131-267.
Yasuda, Yukio: *See—*
Misu, Hiroshi; and Yasuda, Yukio,3,468,665.
Yasuda, Yukio, to Fuji Shashin Film Kabushiki Kaisha. Inhibiting fogging action during color development. 3,476,560, 11-4-69, Cl. 96-22.
Terashima, Yahachi; and Yasuda, Yukio,3,459,563.
Terashima, Yahachi; Yasuda, Yukio; and Sakai, Tadao,3,481,742.
Yasueara, Minoru: *See—*
Ushioda, Tsunezo; Nonaka, Katsuhiko; Yasueara, Minoru; Sato, Katsuya; Ompo, Takeshi; and Ishibashi, Hiroaki,3,476,647.
Yasufuku, Matami, to Fujitsu Limited. Method of manufacture of superhigh frequency transistor. 3,458,367, 7-29-69, Cl. 148-175.
Yasui, Robert K.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,466,198.
Yasui Sangyo Company, Ltd.: *See—*
Sano, Norimasa, 3,433,458.
Yasui, Seiichi: *See—*
Tada, Yoshinosuke; Mizuno, Syoji; Kashima, Syunsaku; Yasui, Seiichi; and Sugiura, Taku,3,420,453.
Yasui, Takeshi; and Matsubayashi, Kanji, to Kurashiki Rayon Co., Ltd. Process for the production of polyurethane elastic fiber having less adhesivity. 3,482,010, 12-2-69, Cl. 264-130.
Yasui, Takeshi: *See—*
Matsubayashi, Kanji; Yasui, Takeshi; and Sano, Shiro,3,464,198.
Yasunaga, Hidetoshi; Ichikawa, Tatsuo; Yamato, Hiroaki; Ikeda, Mitsuru; Ozawa, Nobuo; and Ueda, Kenichi, to Japan Synthetic Rubber Co., Ltd. Process for producing polybutadienes having reduced cold flow tendency. 3,464,965, 9-2-69, Cl. 260-94.3
Yasunaga, Hidetoshi: *See—*
Matsumoto, Tsuyoshi; Ito, Tokuo; Komatsu, Kouei; Yasunaga, Hidetoshi; and Ueda, Kenichi,3,471,462.
Okuya, Eitaro; Ito, Tokuo; Sakaguchi, Akio; Komatsu, Koei; and Yasunaga, Hidetoshi,3,454,680.
Okuya, Eitaro; Sakaguchi, Adio; Komatsu, Kouei; Kikuchi, Tatsuhiko; Yasunaga, Hidetoshi; and Andueda, Kenichi,3,432,515.
Ueda, Kenichi; Yasunaga, Hidetoshi; and Komatsu, Kouei,3,432,517.
Yasuoka, Yoshio: *See—*
Koga, Wataru; Abo, Masahiro; Yasuoka, Yoshio; Nozaki, Michio; and Nomaguchi, Kanemasa,3,444,112.
Yasutake, Yoshito; and Fujita, Yosisige, to Central Glass Co., Ltd. Process for preparing sodium metaphosphate. 3,458,279, 7-29-69, Cl. 23-106.
Yasutake, Yoshito; and Fujita, Yosisige, to Central Glass Co., Ltd. Method for producing gypsum pellets. 3,480,387, 11-25-69, Cl. 23-122.
Yatani, Kozo: *See—*
Tsurushima, Masaaki; and Yatani, Kozo,3,472,850.
Yater, Joseph C. Communication satellite. 3,427,623, 2-11-69, Cl. 343-705.
Yates, David J. C.: *See—*
Bank, Shelton; Vogelfanger, Elliot; Naslund, Lars A.; and Yates, David J. C.,3,428,448.
Yates, Edward S., to General Electric Company. Rigid conductor bars in dynamoelectric machine slots. 3,444,407, 5-13-69, Cl. 310-215.
Yates, George H. Snow removing board. 3,440,741, 4-29-69, Cl. 37-53.
Yates, George, Jr., to Bennett Industries, Inc. Plastic container with double lid. 3,425,471, 2-4-69, Cl. 150-48.
Yates, George, Jr. Plastic container tape seal structure. 3,446,391, 5-27-69, Cl. 220-60.
Yates, Gerald P.: *See—*
Kokoszka, John G.; and Yates, Gerald P.,3,462,384.
Yates, Harry D.; and Lieding, Calvin A., to Griswold Controls. Apparatus for programming cyclic actuation of valves. 3,440,434, 4-22-69, Cl. 307-41.
Yates, James E.: *See—*
Eccles, Raymond D.; Yates, James E.; and Matson, Ted P.,3,444,087.
Lundeen, Allan J.; and Yates, James E.,3,450,735.
Yates, John; and Haddock, Ernest, to Shell Oil Company. 2,6-Dihalobenzthiohydrazides. 3,424,723, 1-28-69, Cl. 260-551.
Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Preparation of metal nitrides. 3,450,499, 6-17-69, Cl. 23-191.
Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Novel amorphous guanidine silicates and compositions thereof with synthetic resins. 3,475,375, 10-28-69, Cl. 260-59.
Yates, Paul Clifford: *See—*
Stiles, Alvin B.; and Yates, Paul Clifford,3,460,523.
Yates, William F.: *See—*
Burleson, James C.; and Yates, William F.,3,475,308.
Yatsurugi, Tatsuo: *See—*
Kinoshita, Takehiko; and Yatsurugi, Tatsuo,3,444,374.
Yatuni, Raymond A., to Purex Corporation, Ltd. Case washer apparatus. 3,426,773, 2-11-69, Cl. 134-148.
Yauney, Lloyd R.; Rider, Rowland W.; and Cannon, Edwin Q., Jr. Method of and tag for identifying animals. 3,461,586, 8-19-69, Cl. 40-300.
Yavner, Sylvan. Headrest. 3,480,976, 12-2-69, Cl. 5-338.
Yawata Chemical Industry Co., Ltd.: *See—*
Matsumoto, Yutaro; Hisatsune, Tadashi; Sasaki, Tsutomu; Mitsudo, Fumiaki; and Yamauchi, Yasuhiro, 3,467,723.
Morita, Shigeru; Inoue, Toshio; Eto, Hiromi; and Yoshimitsu, Kenichi, 3,456,029.
Yamase, Yoshiaki; and Kutsuma, Teruo, 3,428,590.
Yawata Iron & Steel Co., Ltd.: *See—*
Asamura, Shunzo, 3,434,606.
Fukuda, Nobuo; Shimizu, Mineo; Matsukura, Kameo; and Ando, Narumi, 3,420,718.
Hayashi, Masahiro; and Goto, Shinkichi, 3,460,423.
Ishimitsu, Akitoshi; Sugahara, Kinichi; Arakawa, Saburo; and Kitazawa, Tadao, 3,482,964.
Kitajima, Daishu; and Nagatomi, Masaaki, 3,458,918.
Matsuoka, Kyoichiro; and Shinada, Wataru, 3,454,268.
Nakamura, Hajime; and Wada, Kamekichi, 3,463,677.
Tagiri, Koichi; Iwai, Masuo; and Nikaido, Yoshiwaka, 3,435,968.
Takafuji, Hideo; and Ishida, Tsugio, 3,470,739.
Tanaka, Shigefumi; Ishikawa, Jiro; Matumoto, Tosiaki; and Kovacs, Lajos J., 3,469,403.
Toyoda, Hiromichi; Tayama, Kazuo; Miyazaki, Yoshitoshi; Hinohara, Keiichi; and Suzuki, Hisao, 3,472,071.
Tsujino, Yoshiyuki, 3,471,340.
Ueshima, Kumao; Hiratsuka, Yoshio; Kuga, Toshiki; Yoshinaga, Hirokazu; and Hayashi, Yoichi, 3,459,418.
Wada, Toshiya; Akanuma, Kaneo; and Takata, Toshihiko, 3,477,881.
Yonezaki, Shigeru; Obu, Misao; and Asakawa, Kenichi, 3,457,097.
Yawata, Keiske; Shiraishi, Masamichi; and Shiba, Hiroshi, to Nippon Electric Company Limited. Method for manufacturing microminiature coils. 3,431,144, 3-4-69, Cl. 117-212.
Yawata Welding Electrode Co., Ltd.: *See—*
Fujita, Hiroshi, 3,456,093.
Fukushima, Kuniaki, 3,445,623.
Nakakubo, Isojiro; and Watanabe, Takeharu, 3,461,543.
Yawger, Ernest S., to FMC Corporation. Continuous process for cooking food contained in hermetically sealed glass containers. 3,469,988, 9-30-69, Cl. 99-1.

Yazaki Corporation: *See—*
Bansho, Kiyoshi, 3,446,008.
Yazaki, Yoshimi. Small size constructions which are readily fabricated or dismantled. 3,424,178, 1-28-69, Cl. 135-1.
Yazawa, Masahide, to Polymer Processing Research Institute Ltd. Biaxial after-stretching of thermoplastic tubular film. 3,426,113, 2-4-69, Cl. 264-95.
Yeager, John A.: *See—*
Harris, Robert M.; Knaggs, Edward A.; and Yeager, John A.,3,459,559.
Yeager, John F.: *See—*
Kordesch, Karl V.; and Yeager, John F.,3,423,243.
Yeagley, Clarence R., to Hamilton Watch Company. Canister timer for mechanical time fuse. 3,444,815, 5-20-69, Cl. 102-83.
Yeakley, Glen E., to Westinghouse Electric Corporation. Elevator landing monitor. 3,458,014, 7-29-69, Cl. 187-29.
Yeaman, Carl R., to Sav-On Draperies, Inc. Score card cleaning apparatus. 3,440,675, 4-29-69, Cl. 15-4.
Yeamans, Wilfred H., to General Electric Company. Bonded composite end plug seal for electrolytic capacitors. 3,422,319, 1-14-69, Cl. 317-230.
Yearley, Douglas C., to Phelps Dodge Copper Products Corporation. Continuous casting of tubes. 3,486,550, 12-30-69, Cl. 164-281.
Yearwood, Donald R.; Basile, Norman K.; and Bridges, Thomas F., to McMullen, John J. System for loading and discharging liquefied gases from storage tanks. 3,434,492, 3-25-69, Cl. 137-394.
Yeary, Edwin N., to Sideloading, Inc. Side-loading vehicle for carrying articles in multi-tier arrangement. 3,428,358, 2-18-69, Cl. 296-4.
Yeatman, Richard H. M.; and Endal, Anders B. Torque generating device. 3,448,626, 6-10-69, Cl. 74-108.
Yeats, Francis William; and Stevenson, Jeremy, to United Kingdom Atomic Energy Authority. Radioisotope-powered thermoelectric generators. 3,472,702, 10-14-69, Cl. 136-202.
Yeckley, Russell N.: *See—*
Colclaser, Robert G., Jr.; and Yeckley, Russell N.,3,454,734.
Yeda Research and Development Co., Ltd.: *See—*
Asscher, Meir; Vofsi, David; and Katchalsky, Aharon, 3,441,614.
Bloch, Rene; Katchalsky, Aharon; Kedem, Ora; and Vofsi, David, 3,450,630.
Bloch, Rene; Vofsi, David; Kedem, Ora; and Katchalsky, Aharon, 3,450,631.
Danon, David, 3,455,635.
Gassner, Saul Alexander; Hellinger, Esther; Katchalsky, Aharon; and Vofsi, David, 3,420,790.
Jerushalmi, Shmuel; and Barr, Itzhak Michael, 3,437,091.
Klein, Fritz S.; and Bar-Eli, Kedma, 3,457,041.
Yee, Peter P. M.: *See—*
Levine, Alfred L.; and Yee, Peter P. M.,3,479,491.
Yee, William C.: *See—*
Blanco, Raymond E.; Clark, Walter E.; and Yee, William C.,3,463,814.
Yee, Wung Dai; and Deibert, Max C., to Monsanto Research Corporation. Method of making diffusion membrane electrodes from viscoelastic dough. 3,442,715, 5-6-69, Cl. 136-122.
Yegnanarayan, Rangaiyer: *See—*
Das Gupta, Ranjit; Jayasimha, Mysore Somasekhara Rau; Sitaramarao, Krishnappa; and Yegnanarayan, Rangaiyer,3,436,568.
Yeh, Tsu-Hsing; and De Fries, Robert M., to International Business Machines Corporation. Intermetallic semiconductor body and method of diffusing an N-type impurity thereinto. 3,478,253, 11-11-69, Cl. 317-234.
Yeh, Tsu-Hsing: *See—*
Gardner, Edward E.; Gorey, Edward F.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing,3,487,301.
Yehiely, David, to Sonotone Corporation. Third-electrode rechargeable alkaline battery cells and associated battery circuits. 3,470,025, 9-30-69, Cl. 136-6.
Yehle, Garald R., to Trane Company, The. Heat exchanger convector. 3,469,622, 9-30-69, Cl. 165-55.
Yellin, Bernard. Pallet which is integrally molded of a plastic material or the like. 3,481,285, 12-2-69, Cl. 108-58.
Yello, Joseph F., to Zenith Radio Corporation. Radio direction finder having inductorless demodulator. 3,435,455, 3-25-69, Cl. 343-120.
Yellow Spring Instrument Company, Inc., The: *See—*
Molloy, Everett W., 3,429,784.
Yelsma, Delbert F. Positioning, spacing and supporting device. 3,471,987, 10-14-69, Cl. 52-684.
Yen, Ernest Chu: *See—*
Vincent, James G., Jr.; Hansen, Lloyd Frank; Yen, Ernest Chu; Taylor, Arthur Sinclair; Bott, George Spencer; and Greif, Martin,3,436,453.
Yen, Richard H., to Radio Corporation of America. Computer system employing elementary operation memory. 3,434,112, 3-18-69, Cl. 340-172.5
Yen, Richard H., to Radio Corporation of America. Memory accessing system. 3,445,818, 5-20-69, Cl. 340-172.5
Yen, Thomas Tsing Ton, to Statham Instruments, Inc. Blood pressure apparatus with means for obtaining peak and average voltage measurements of fluctuating voltage waves. 3,486,499, 12-30-69, Cl. 128-2.05
Yen, Thomas Tsington, to Statham Instruments, Inc. Pulse repetition rate determination circuit. 3,474,778, 10-28-69, Cl. 128-2.06
Yenawine, David L.; and Hirakis, Emanuel C., to United Aircraft Corporation. Method of applying oxidation protective coatings to columbium. 3,432,334, 3-11-69, Cl. 117-70.
Yendrich, Stephen P., Jr.: *See—*
Auzins, Raimunds; and Yendrich, Stephen P., Jr.,3,467,263.
Yenni, Donald M.: *See—*
Sargent, Herbert B.; and Yenni, Donald M.,3,471,675.
Yeomans Brother Company: *See—*
Gloppen, Robert C., 3,423,077.
Yeomans Brothers Company: *See—*
Bradley, Edward F., 3,459,303.
Smith, Eugene J., 3,426,899.
Yeomans, Kenneth A., to British Iron and Steel Research Association, The. Rolling mills. 3,457,747, 7-29-69, Cl. 72-8.
Yeomans, Kenneth Alfred, to British Iron and Steel Research Association, The. Billet mill wherein the rolling gap is controlled during the penultimate pass and fixed during the final pass. 3,468,145, 9-23-69, Cl. 72-12.
Yeomans, Lena Sarah: *See—*
Ronceray, Robert A. M.,3,454,232.
Yerdon, Michael G.; and Honnold, Fred V., Jr., to Carrier Corporation. Air conditioning unit. 3,452,811, 7-1-69, Cl. 165-37.
Yerger, Harold: *See—*
Thomas, Robert Warren; Huebner, Edward J.; and Yerger, Harold,3,455,067.
Yerkins, Stephen J., to Goss Gas, Inc. Method for forming torch tips. 3,477,112, 11-11-69, Cl. 29-157.
Yermakov, Alexis M.: *See—*
Wallach, Mark K.; and Yermakov, Alexis M.,3,479,102.
Yerman, Emil A.: *See—*
Bernau, William A.; and Yerman, Emil A.,3,465,978.
Yerouchalmi, David: *See—*
Anthony, Anne-Marie nee Barbier; Foex, Marc; and Yerouchalmi, David,3,475,352.
Yerouchalmi, David, to Commissariat a l'Energie Atomique. Composite electrode for magnetohydrodynamic generator. 3,428,834, 2-18-69, Cl. 310-11.
Yerouchalmi, David, to Commissariat a l'Energie Atomique. Composite-structure electrode for open-cycle magnetohydrodynamic generator. 3,430,082, 2-25-69, Cl. 310-11.
Yerouchalmi, David, to Commissariat a l'Energie Atomique. Composite electrode for MHD conversion duct. 3,432,715, 3-11-69, Cl. 313-346.
Yerouchalmi, David, to Commissariat a l'Energie Atomique. Electrically insulating wall. 3,454,798, 7-8-69, Cl. 310-11.
Yerouchalmi, David, to Commissariat a l'Energie Atomique. Composite-electrode for magnetohydrodynamic generator. 3,479,538, 11-18-69, Cl. 310-11.
Yerouchalmi, David; and Zettwoog, Pierre, to Commissariat a l'Energie Atomique. Wall structures of magnetohydrodynamic conversion ducts and method of fabrication of said structures. 3,450,905, 6-17-69, Cl. 310-11.
D'Albis, Antoine; Yerouchalmi, David; and Bouillon, Bernard,3,423,611.
Wang, Robert; and Yerouchalmi, David,3,424,541.
Yerrell, John Stuart, to English Electric Company Limited, The. Magnetohydrodynamic apparatus. 3,480,805, 11-25-69, Cl. 310-11.
Yeshin, Leon. Lacquer compositions containing a polyepoxide, a phenolic resole and oxidized polyethylene. 3,487,124, 12-30-69, Cl. 260-831.
Yeshiva University: *See—*
Maizel, Jacob V., Jr., 3,450,173.
Maizel, Jacob V., Jr., 3,451,629.
Yeske, Laurel R., to Case, J. I., Company. Side delivery rake. 3,470,683, 10-7-69, Cl. 56-377.
Yeske, Laurel R.; and Christopher, John G., to Case, J. I., Company. Mower breakaway mechanism. 3,462,923, 8-26-69, Cl. 56-25.
Yetman, Albert A.: *See—*
Babington, Robert S.; Yetman, Albert A.; and Slivka, William R.,3,421,692.
Babington, Robert S.; Yetman, Albert A.; and Slivka, William R.,3,421,699.
Babington, Robert S.; Yetman, Albert A.; and Slivka, William R.,3,425,059.
Yetter, Edward W.; and Conner, Harry G., to Remington Arms Company, Inc. Method and apparatus for determining the coordinate of a projectile by measuring the time interval between the interception of successive light screens. 3,487,226, 12-30-69, Cl. 250-222.
Yetter, Harry G., 1/2 to Whalen, Joseph I., and Whalen, Joan. Grain sifter and separator. 3,455,452, 7-15-69, Cl. 209-297.

Yetter, Harry G., 1/2 to Whalen, Joseph, and Whalen, Joan. Supplemental separator for grain cleaning machines. 3,483,975, 12-16-69, Cl. 209-297.
Yevich, Joseph: *See—*
Jewell, Douglas M.; and Yevich, Joseph,3,446,729.
Yiannos, Peter N., to Scott Paper Company. Pulping process with lignin recovery. 3,428,520, 2-18-69, Cl. 162-38.
Yiannos, Peter N.; and Britt, Kenneth W., to Scott Paper Company. Pulping wood chips with peracetic acid and chlorine dioxide. 3,458,394, 7-29-69, Cl. 162-76.
Yii, Roland, to Burroughs Corporation. Variable count step counter. 3,436,740, 4-1-69, Cl. 340-174.
Yii, Roland, to Burroughs Corporation. Variable count magentic core. 3,482,109, 12-2-69, Cl. 307-88.
Yildirim, Uyanik; Malow, Monroe; Lourie, Cary H.; and Evans, Barry, to Halcon International, Inc. Process for producing carbon tetrachloride and perchloroethylene. 3,429,939, 2-25-69, Cl. 260-654.
Yin, Theodore Peng-Jung: *See—*
Ahramjian, Leo; and Yin, Theodore Peng-Jung,3,467,572.
Yiotis, Peter G., to Sperry Rand Corporation. Failure monitor for redundant channel systems. 3,476,922, 11-4-69, Cl. 235-153.
Yissum Research Development Company: *See—*
Brandstadter, Isaac Joseph, 3,480,932.
Frankel, Max; Gertner, David; Wagner, Daniel; and Zilkha, Albert, 3,426,002.
Jaffe, Abram Aubrey; and Nadav, Eliahu, 3,470,551.
Lahav, Noam, 3,423,093.
Palti, Yoram, 3,482,093.
Yli-Paavola, Antti J., to Oy Tampella AB. Device for controlling the refining load of a disk refiner. 3,420,458, 1-7-69, Cl. 241-290.
Ylinen, Klaus Johannes. Reversible stepping mechanisms. 3,472,087, 10-14-69, Cl. 74-143.
Ylinen, William A. Cable-laying attachment for road grader vehicle. 3,486,344, 12-30-69, Cl. 61-72.6
Yngvesson, Lindy: *See—*
Ekstrom, Staffan; and Yngvesson, Lindy,3,424,972.
Yntema, George B. Superconducting composite material. 3,447,913, 6-3-69, Cl. 29-191.2
Yntema, George B.: *See—*
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B.,3,421,330.
Otter, Fred A., Jr.; Solomon, Peter R.; and Yntema, George B.,3,478,230.
Yocom, Perry N.: *See—*
Larach, Simon; and Yocom, Perry N.,3,459,667.
Larach, Simon; Shrader, Ross E.; and Yocom, Perry N.,3,454,715.
Yocum, Ralph W.: *See—*
Funk, Wilmer E.; Koch, Gerald B.; and Yocum, Ralph W.,3,442,431.
Loyd, Calvin D.; and Yocum, Ralph W.,3,429,591.
Yocum, Ralph W., to Caterpillar Tractor Company. Method of inertia welding wherein an increased axial force is applied immediately upon rotation stoppage. 3,451,121, 6-24-69, Cl. 29-470.3
Yocum, Ronald H., to Dow Chemical Company, The. Polymeric compositions having pendant aziridinyl groups and improved method of curing same. 3,475,388, 10-28-69, Cl. 260-78.4
Yocum, William C., to Superior Valve & Fittings Co. Check valves having plastic sealing member. 3,438,391, 4-15-69, Cl. 137-516.29
Yoda, Naoya; Nakanishi, Ryoji; Kubota, Takashi; Kurihara, Masaru; and Ikeda, Kojyuro, to Toyo Rayon Kabushiki Kaisha. Linear polyamide and oxazinone-containing polymer and method of producing the same. 3,468,851, 9-23-69, Cl. 260-78.
Yoda, Naoya: *See—*
Nakanishi, Ryoji; Yoda, Naoya; and Kurihara, Masaru,3,424,728.
Yoda, Renpei; and Watanabe, Toru, to National Research Institute of Metals, Director of. Nickel base heat-resisting alloy. 3,486,887, 12-30-69, Cl. 75-171.
Yoder Company, The: *See—*
Chang, William J. H., 3,472,053.
Yoder, Harold R., to Boyertown Burial Casket Company. Swell sander. 3,479,772, 11-25-69, Cl. 51-145.
Yoder, Herbert G. Brake system and method of operation. 3,431,028, 3-4-69, Cl. 303-6.
Yoder, John Menley: *See—*
Adams, Ernest Clarence, Jr.; and Yoder, John Menley,3,453,363.
Yoder, John Menley; and Adams, Ernest Clarence, Jr., to Miles Laboratories, Inc. Chorionic gonadotropin separation process. 3,446,598, 5-27-69, Cl. 23-230.
Yoder, John R.; and McIntosh, Robert B., Jr., to Barnes Engineering Company. Radiometric microscope with means to produce a visual image. 3,435,212, 3-25-69, Cl. 250-65.
Yoder, Joseph, to CTS Corporation, mesne. Merchandise display unit. 3,484,068, 12-16-69, Cl. 248-224.
Yodis, Anthony W., to Allied Chemical Corporation. Concentration of nitric acid using lithium nitrate. 3,433,718, 3-18-69, Cl. 203-13.
Yoe, Guy S., Jr., to Koch, George, Sons, Inc. Refuse burner. 3,440,977, 4-29-69, Cl. 110-18.
Yogus, William: *See—*
Milewski, Victor; and Yogus, William,3,433,104.
Yohana, Andrew I.: *See—*
Smitzer, Louis A.; and Yohana, Andrew I.,3,475,091.
Yoho, Clayton W., to Johnson, S. C., & Sons, Inc. Insect repellent compositions of N-(metatoluyl)- methyl piperidines. 3,463,855, 8-26-69, Cl. 424-267.
Yokawonis, Anthony G., to General Motors Corporation. Fusion coating of metal articles. 3,436,244, 4-1-69, Cl. 117-18.
Yoke, Michael P.; Montesi, Robert P.; and Paterson, Robert N., to Dresser Industries, Inc. Tube fitting with locking means. 3,434,744, 3-25-69, Cl. 285-52.
Yokel, Donald R., to Schaffner Manufacturing Company, Inc. Polishing wheel and method for producing such wheel. 3,462,888, 8-26-69, Cl. 51-336.
Yokogawa, Kanae: *See—*
Shoji, Osamu; Yokogawa, Kanae; Sunahara, Noriyuki; and Ogata, Loichi,3,438,860.
Yokogawa, Mutsuo; Asaka, Shigefumi; and Araki, Mataichi, to Nippon Kayaku Kabushiki Kaisha. Gelatinized dynamite containing polyvinyl butyral resin and method of producing same. 3,450,584, 6-17-69, Cl. 149-50.
Yokogawa, Seiji: *See—*
Hatazaki, Yasuzo; and Yokogawa, Seiji,3,423,002.
Yokogawa-Hewlett-Packard, Ltd.: *See—*
Ito, Haruo, 3,446,987.
Ito, Haruo, 3,473,117.
Ito, Haruo, 3,478,227.
Yokoyama, Giichi; Muraoka, Toshio; and Noguchi, Hitoshi, 3,474,334.
Yokohama Rubber Company, Limited, The: *See—*
Kobayashi, Takashi, 3,469,614.
Yokohama, Yasutsugu, to Nikko Kagaku Kabushiki Kaisha, and Yokohama, Yasutsugu. Respiration measuring apparatus. 3,431,078, 3-4-69, Cl. 23-254.
Yokoi, Hidekazu. Drum and drum head construction. 3,421,400, 1-14-69, Cl. 84-411.
Yokoo, Makoto: *See—*
Ogura, Junji; Mise, Noritoshi; Yokoo, Makoto; and Hatanaka, Yoshihiro,3,478,089.
Yokota, Hisao: *See—*
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; Toriuchi, Yahiko; and Matsumi, Shunji,3,446,776.
Fukui, Kenichi; Kagiya, Tsutomu; Yokota, Hisao; and Horie, Misato,3,466,251.
Yokota, Kingo: *See—*
Hata, Kunio; and Yokota, Kingo,3,424,702.
Yokota, Kozou: *See—*
Kawahata, Masao; Yokota, Kozou; Fukase, Yukishige; and Katoh, Shoichi,3,420,660.
Yokota, Ryosuke; Fuwa, Shigehiko; Kawashima, Shinichi; and Matsuo, Yutaka, to Tokyo Shibaura Electric Co., Ltd. Flexible endoscope for photographing diseased parts in cancer diagnosis. 3,456,641, 7-22-69, Cl. 128-4.
Yokota, Ryosuke; Nakajima, Saburo; Fukui, Toshio; and Fukuda, Kiyoshi, to Tokyo Shibaura Electric Co., Ltd. Glass element for dosimeters. 3,463,664, 8-26-69, Cl. 117-124.
Yokoyama, Giichi; Muraoka, Toshio; and Noguchi, Hitoshi, to Yokogawa-Hewlett-Packard, Ltd. Automatic nulling measurement bridge using double phase angle detection. 3,474,334, 10-21-69, Cl. 324-57.
Yokoyama, Hirotaka: *See—*
Kurihara, Kazunobu; Ichinose, Noboru; Yokoyama, Hirotaka; and Yokoyama, Katsunori,3,468,799.
Yokoyama, Katsunori; Ichinose, Noboru; and Tanno, Yoshikazu, to Tokyo Shibaura Electric Co., Ltd. Piezoelectric ceramic materials. 3,468,800, 9-23-69, Cl. 252-62.9
Yokoyama, Katsunori: *See—*
Kurihara, Kazunobu; Ichinose, Noboru; Yokoyama, Hirotaka; and Yokoyama, Katsunori,3,468,799.
Kurihara, Kazunobu; Ichinose, Noboru; Tanno, Yoshikazu; and Yokoyama, Katsunori,3,472,779.
Yokoyama, Masahiro, to Mitsubishi Denki Kabushiki Kaisha. Motor clutch brake device. 3,447,005, 5-27-69, Cl. 310-78.
Yokoyama, Seijiro: *See—*
Ito, Sukehiro; and Yokoyama, Seijiro,3,447,086.
Yokoyama, Tosiaki: *See—*
Sida, Juichi; Haki, Morio; and Yokoyama, Tosiaki,3,473,534.
Yokozawa, Masumi; and Inoue, Morio, to Matsushita Electronics Corporation. Process for electrolytically etching indium arsenide. 3,485,731, 12-23-69, Cl. 204-141.
Yolker, Ulrich; Gerloff, Gunter; and Haseloff, Heinz, to Jurid Werke GmbH. Friction disc brake comprising friction pads with linings of sintered friction material. 3,435,927, 4-1-69, Cl. 188-264.
Yolles, Seymour, to Du Pont de Nemours, E. I., and Company. Polymeric products of $B_10\ H_12$ and $B_12\ H_12$- containing compounds. 3,441,389, 4-29-69, Cl. 23-358.

Yomiyama, Akira; Kato, Tsuneyuki; Aoshima, Atsushi; and Kawanishi, Tokuichiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Separation and purification of acrylic acid from acetic acid by solvent extraction and azeotropic distillation with a two component solvent-entrainer system. 3,433,831, 3-18-69, Cl. 260-526.
Yon, Eugene T.: *See*—
Gri, Norman J.; and Yon, Eugene T.,3,483,096.
Yonan, Peter, to Searle, G. D., & Co. Xanthenylisonipecotonitriles and related compounds. 3,433,793, 3-18-69, Cl. 260-293.4
Yonchar, Jack. Identification device. 3,467,055, 9-16-69, Cl. 118-31.5
Yoncoskie, Robert A.; Kass, Robert E.; Hanny, John F.; and Whitaker, John G., to National Cash Register Company, The. Polyurethane foam-producing compositions comprising microencapsulated particles and a method of making foams therefrom. 3,455,848, 7-15-69, Cl. 260-2.5
Yoneda, Hajime: *See*—
Kanaoka, Takao; Morio, Minoru; and Yoneda, Hajime,3,484,648.
Yonekura, Nobuaki: *See*—
Kosaka, Kenzo; Tsunewaki, Masami; Yonekura, Nobuaki; Okaya, Tsutomu; Mimatsu, Ken; and Mori, Tatsujiro,3,446,005.
Yonemochi, Jutaro. Smelting electric furnace apparatus. 3,465,085, 9-2-69, Cl. 13-18.
Yonemoto, Sinji: *See*—
Nameda, Naoyoshi; and Yonemoto, Sinji,3,475,649.
Yonezaki, Shigeru; Obu, Misao; and Asakawa, Kenichi, to Yawata Iron & Steel Co., Ltd. Method of coating ferrous metal with molten aluminium. 3,457,097, 7-22-69, Cl. 117-51.
Yonezawa, Tooru: *See*—
Shinkai, Akihiro; Fujiura, Masumi; and Yonezawa, Tooru,3,458,900.
Yonezu, Hiroo: *See*—
Kawaji, Akira; and Yonezu, Hiroo,3,470,427.
Yonker, John F.: *See*—
Brewer, Lee M.; and Yonker, John F.,3,421,448.
Yonkers, John L. Self-aligning and sealing member. 3,422,721, 1-21-69, Cl. 85-1.
Yonkers, John L. Method and apparatus for orienting and assembling small parts. 3,468,024, 9-23-69, Cl. 29-629.
Yonkers, Robert A.: *See*—
Rosendall, Henry J.; Hughes, Martin Robert; and Yonkers, Robert A.,3,484,171.
Yonkers, William A. Mounting and scaling nut. 3,431,811, 3-11-69, Cl. 85-32.
Yoo-Hoo Chocolate Beverage Corporation: *See*—
Hotelling , Eric B., 3,486,905.
Yoon, Young Z.; and Noland, Wayne B., to Woodford Manufacturing Company. Dock plate. 3,480,980, 12-2-69, Cl. 14-72.
Yoos, Harold F.: *See*—
Bohnstedt, Charles E.; Russell, George H.; and Yoos, Harold F.,3,458,794.
Yore, Donald M.: *See*—
Chapman, Richard M.; and Yore, Donald M.,3,450,986.
Yorgensen, Harry P., to Ney, J. M., Company, The. Probe assembly. 3,437,984, 4-8-69, Cl. 339-213.
Yorgin, Nick; and Maier, Alfred E., to Westinghouse Electric Corporation. Circuit breaker with improved latch and trip structures. 3,460,075, 8-5-69, Cl. 335-9.
Yorgin, Nick; and Majcher, John, to Westinghouse Electric Corporation. Circuit breaker with improved trip structure. 3,462,716, 8-19-69, Cl. 335-23.
York Gears Limited: *See*—
Stratford, Henry Ralph, 3,439,499.
York, Jimmie D., Jr.: *See*—
Rivers, Richard D.; and York, Jimmie D., Jr.,3,460,322.
York, John Burton. Pliers type wrench. 3,422,707, 1-21-69, Cl. 81-361.
York Label Corporation: *See*—
Smith, Reynold B.; and Trimmer, Robert W., 3,478,681.
York, Michael W.; and Hackler, Walter A., said Hackler assor to said York. Cartridge for measuring chamber pressure. 3,443,430, 5-13-69, Cl. 73-167.
York, Monte H., to Goodyear Tire & Rubber Company, The. Mold release agent containing a polyolefin and the reaction product of dicyclopentadiene and a phenol. 3,423,503, 1-21-69, Cl. 264-338.
York, Monte H.: *See*—
Hoskinson, John D.; and York, Monte H.,3,446,694.
York Production Engineering Co., Inc.: *See*—
Smith, Dale R., 3,452,516.
Smith, Dale R., 3,463,375.
Smith, Dale R., 3,463,413.
York, Ralph, deceased0 (by York, Ruth S.; executrix). Conveyance and track. 3,473,483, 10-21-69, Cl. 104-69.
York, Ralph, to York, Ruth S., executrix of said York, Ralph. Artificial ski mat. 3,422,732, 1-21-69, Cl. 94-3.
York, Ray A., said Wang assor. to Bertea Corporation. Fail-safe servo valve. 3,439,707, 4-22-69, Cl. 137-596.
York, Robert K.: *See*—
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K.,3,426,158.
York, Roger F.: *See*—
Halper, Walter M.; York, Roger F.; and Moss, Fred Dudley,3,459,693.
York, Roy W.: *See*—
Ernest, Robert P.; and York, Roy W.,3,472,310.
York, Ruth S.: *See*—
York, Ralph, 3,422,732.
York, Ruth S.: *See*—
York, Ralph,3,473,483.
York, William D.: *See*—
Fall, Herbert S.; Harrell, James M.; Pulley, James A.; Vaughn, Lawrence M.; York, William D.; and Young, Wayne H.,3,450,446.
Fall, Herbert S.; Harrell, James M.; York, William D.; Young, Wayne H.; and Vaughn, Lawrence M.,3,485,539.
York, William F.: *See*—
Tierney, Donald R., 3,461,479.
Yorns, Edward E., to Kentucky Electronics, Inc. Method of punching a cylindrical CRT convergence electrode. 3,478,628, 11-18-69, Cl. 83-54.
Yorston, Frederic H.: *See*—
Liebergott, Norman; and Yorston, Frederic H.,3,472,731.
Yoshida, Eiichi; Yoshida, Saburo; and Yoshida, Shiyoge, to Sunnyside Nurseries Inc. Daylight control means in greenhouses. 3,481,073, 12-2-69, Cl. 47-17.
Yoshida, George S. Antitheft mechanism for autos. 3,430,058, 2-25-69, Cl. 307-10.
Yoshida, Hirohiko: *See*—
Tanaka, Kazuo; Yoshida, Hirohiko; Kato, Yoshiaki; and Ueda, Hiromi,3,462,939.
Yoshida, Hiroshi; Okabe, Hideo; Sasaki, Kenji; Nonaka, Hiroshi; Nakagawa, Kichizaemon; and Igarashi, Kiyoyuki, to Kawasaki Steel Corporation. Process and apparatus for the continuous casting of steel. 3,457,984, 7-29-69, Cl. 164-86.
Yoshida, Hisashi; Sakamoto, Yuzaburo; and Hosaka, Takeshi, to Hitachi, Ltd. Body comprising a mark for indirect detection of an objective part and method of detecting the position of said objective part. 3,428,872, 2-18-69, Cl. 317-234.
Yoshida, Kazuo; and Fukiage, Shinsuke. Detecting system for a transmitted telegraph signal. 3,459,964, 8-5-69, Cl. 307-236.
Yoshida, Makoto; Okumura, Akio; and Shiba, Keisuke, to Fuji Shashin Film Kabushiki Kaisha. Silver halide emulsions containing magenta-colored cyan couplers. 3,459,552, 8-5-69, Cl. 96-100.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio, to Fuji Shashin Film Kabushiki Kaisha. Silver halide emulsions containing magenta-colored cyan-forming couplers. 3,469,986, 9-30-69, Cl. 96-100.
Yoshida, Makoto; Shiba, Keisuke; and Okumura, Akio, to Fuji Shashin Film Kabushiki Kaisha. Silver halide elements containing magenta-colored cyan-forming couplers. 3,481,741, 12-2-69, Cl. 96-100.
Yoshida, Manabu: *See*—
Yamashita, Toshio; Yoshida, Manabu; and Tsukamoto, Hirokazu,3,466,190.
Yoshida, Masaharu: *See*—
Murota, Shozaburo; and Yoshida, Masaharu,3,477,690.
Yoshida, Masateru; and Mori, Tadamichi, to Citizen Tokei Kabushiki Kaisha. Automatic shutter timing network. 3,429,242, 2-25-69, Cl. 95-10.
Yoshida, Masatoshi: *See*—
Fujii, Saburo; and Yoshida, Masatoshi,3,479,312.
Yoshida, Motoshige: *See*—
Shiga, Koichiro; Yoshida, Motoshige; and Haga, Yoichi,3,452,203.
Yoshida, Muneo; Inoue, Masaru; Fukunaga, Tsuyoshi; Oguchi, Heikichi; and Shioya, Koichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Audio frequency remote control system for working equipment. 3,437,997, 4-8-69, Cl. 340-171.
Yoshida, Saburo: *See*—
Yoshida, Eiichi; Yoshida, Saburo; and Yoshida, Shiyoge,3,481,073.
Yoshida, Sadao: *See*—
Honda, Juichi; Matsumura, Kimio; Yoshida, Sadao; and Mori, Ryutaro,3,428,407.
Yoshida, Shigeru. Cutter for removing dark meat in fish meat. 3,460,193, 8-12-69, Cl. 17-61.
Yoshida, Shiyoge: *See*—
Yoshida, Eiichi; Yoshida, Saburo; and Yoshida, Shiyoge,3,481,073.
Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu, to Sony Corporation. Cathode ray tube. 3,448,316, 6-3-69, Cl. 313-69.
Yoshida, Susumu; Tsuboi, Takamitsu; and Ueno, Kiichi, to Sony Corporation. Electron emitting device and method of assembling the same. 3,444,416, 5-13-69, Cl. 313-270.

Yoshida, Tadao. Slide clasp fastener. 3,484,906, 12-23-69, Cl. 24-205.1
Yoshida, Terue: *See—*
Kitahara, Naotake; and Yoshida, Terue,3,479,841.
Yoshida, Tokiyuki: *See—*
Ishida, Shiro; and Yoshida, Tokiyuki,3,459,809.
Yoshihara, Mitsuo: *See—*
Yamamoto, Yoshihiro; Yoshihara, Mitsuo; Ikeguchi, Takeru; and Sonoda, Sanenobu,3,476,702.
Yoshihara, Yasuhiko: *See—*
Okumura, Shinji; Yoshinaga, Fumihiro; and Yoshihara, Yasuhiko,3,463,704.
Yoshihisa, Koichi, to Showa Aluminum Kabushiki Kaisha. Combination ladder. 3,421,598, 1-14-69, Cl. 182-24.
Yoshikawa, Hiroshi: *See—*
Shirakura, Toshio; Yoshikawa, Hiroshi; Shibasaki, Masataka; and Hongo, Chikara,3,478,055.
Yoshikawa, Masaru: *See—*
Kono, Yuichi; Matsumoto, Shigeru; and Yoshikawa, Masaru,3,432,273.
Yoshikawa, Sadayoshi, to New Nippon Electric Company Limited. High voltage stabilizing circuits. 3,473,081, 10-14-69, Cl. 315-30.
Yoshikawa, Seitaro, to Nitto Handle Works Co., Ltd. Handles for use in bicycles. 3,481,218, 12-2-69, Cl. 74-551.3
Yoshikawa, Toru: *See—*
Naito, Takeo; Oshima, Yasuo; Yoshikawa, Toru; Kasahara, Akira; Domori, Renzo; Nakai, Yoshiaki; and Tsukada, Wataru,3,426,023.
Yoshimitsu, Kenichi: *See—*
Morita, Shigeru; Inoue, Toshio; Eto, Hiromi; and Yoshimitsu, Kenichi,3,456,029.
Yoshimoto, Takeo: *See—*
Kato, Kichiro; Fujita, Hiroshi; Toyama, Teruhiko; Kiyohisa, Yukio; Yoshimoto, Takeo; and Yanami, Tetsuo,3,454,392.
Yoshimura, Kimio. End anchorage for prestressing steel strands for use in prestressed concrete structures. 3,422,501, 1-21-69, Cl. 24-122.6
Yoshimura, Koichi: *See—*
Kobayashi, Tsuneo; Tatematsu, Kenzo; Yoshimura, Koichi; and Yamamoto, Yoshio,3,458,892.
Yoshimura, Masasuke: *See—*
Iwashita, Katsumi; Yoshimura, Masasuke; Miyazaki, Seizaburo; and Tamaki, Kunio,3,481,495.
Yoshimura, Toshio, to Fuji Conveyor Kabushiki Kaisha. Belt conveyor. 3,429,422, 2-25-69, Cl. 198-184.
Yoshinaga, Eiichi: *See—*
Okuda, Itsuki; Yoshinaga, Eiichi; and Tsuboi, Takeo,3,432,601.
Yoshinaga, Fumihiro: *See—*
Okumura, Shinji; Yoshinaga, Fumihiro; and Yoshihara, Yasuhiko,3,463,704.
Yoshinaga, Hirokazu: *See—*
Ueshima, Kumao; Hiratsuka, Yoshio; Kuga, Toshiki; Yoshinaga, Hirokazu; and Hayashi, Yoichi,3,459,418.
Yoshine, Hiroki, to Kabushiki Kaisha Hitachi Seisakusho. Time division multiplex pulse code modulation communication system by pulse distribution transmission. 3,435,148, 3-25-69, Cl. 179-15.
Yoshino, Masao. Flow control valve. 3,437,103, 4-8-69, Cl. 137-100.
Yoshino, Motohisa: *See—*
Hamada, Yoshio; and Yoshino, Motohisa,3,439,095.
Yoshino, Zenichi: *See—*
Komai, Yoshiaki; Yoshino, Zenichi; Miyazaki, Yasunobu; Uematsu, Shigeru; and Mifune, Keiji,3,446,664.
Yoshioka, Haruo: *See—*
Watanabe, Isaburo; Yoshioka, Haruo; Sanga, Seiji; Egashira, Shohachi; and Ohki, Taketo,3,429,680.
Yoshioka, Hiroshi; Oishi, Toshio; and Kanehira, Kenji, to Arakawa Rinsan Kagaku Kogyo Kabushiki Kaisha. Gravure ink for paper. 3,468,829, 9-23-69, Cl. 260-27.
Yoshioka, Satoshi; and Takayanagi, Shigetoshi, to Matsushita Electronics Corporation. Method for the deposition of silica films. 3,442,700, 5-6-69, Cl. 117-201.
Yoshioka, Takao: *See—*
Murayama, Keisuke; Morimura, Shyoji; Yoshioka, Takao; Horiuchi, Hideo; Akagi, Saburo; Kurumada, Tomyuki; Watanabe, Ichiro; and Shoji, Kashiide,3,437,633.
Yoshioka, Tomoaki, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Steering column for a motorcar. 3,486,395, 12-30-69, Cl. 74-492.
Yoshioka, Tomoaki; and Fukuchi, Kiyoshi, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Steering apparatus for motor car. 3,486,396, 12-30-69, Cl. 74-492.
Yoshioka, Tomoaki; and Sato, Yasuo, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Steering column for a motor vehicle. 3,454,397, 7-8-69, Cl. 74-492.
Yoshioka, Tunehiko: *See—*
Iwaya, Shoichi; and Yoshioka, Tunehiko,3,456,314.
Iwaya, Shoichi; and Yoshioka, Tunehiko,3,457,477.
Yoshitake, Norito: *See—*
Inaba, Seiuemon; Shimizu, Kanryo; Shimajiri, Tokiji; and Yoshitake, Norito,3,467,899.
Yoshitake, Norito; Hashimoto, Yoshihiro; and Kobayashi, Kengo, to Fujitsu Limited. Digital control system for machine tools including tool radius offset and stepping motor drive. 3,430,121, 2-25-69, Cl. 318-162.
Shimizu, Kanryo; Yoshitake, Norito; and Kobayashi, Kengo,3,467,902.
Yoshitomi Pharmaceutical Industries, Ltd.: *See—*
Nakanishi, Michio; Tahara, Tetsuya; and Maruyama, Yutaka, 3,426,022.
Nakanishi, Michio; Tsuda, Atsushi; and Inamasu, Shuji, 3,467,655.
Yoshiyama, Ichiro: *See—*
Namba, Yasuhiro; Kessoku, Kazuo; Fujii, Tadayoshi; Ogura, Toshinobu; and Yoshiyama, Ichiro,3,476,028.
Yoshiyama, Ichiro; and Konishi, Masaichiro, to Minolta Camera Kabushiki Kaisha. Electromagnetic controlling device for exposure. 3,435,747, 4-1-69, Cl. 95-64.
Yoshiyama, Yuji; and Ezawa, Takayoshi, to Mitsubishi Denki Kabushiki Kaisha. Ultrasonic flowmeter system. 3,473,378, 10-21-69, Cl. 73-194.
Yoshizawa, Shiro: *See—*
Hine, Fumio; Takehara, Zenichiro; and Yoshizawa, Shiro,3,481,847.
Yosim, Samuel J.: *See—*
Heredy, Laszlo A.; McKenzie, Donald E.; and Yosim, Samuel J.,3,438,722.
Yosmali, Krikor: *See—*
Greer, Donald L.; O'Daniel, Jerome B.; and Yosmali, Krikor,3,451,520.
Yost, Joe: *See—*
Nyberg, Stanley A.; and Yost, Joe,3,432,895.
Yost, Kermit D.: *See—*
Voitik, Robert M.; and Yost, Kermit D.,3,443,815.
Yost, Oscar A. Fast pipe coupling for offshore drilling. 3,422,889, 1-21-69, Cl. 166-0.5
Yost, Oscar A. Slide valve construction. 3,463,193, 8-26-69, Cl. 137-625.42
Yost, Paul E.: *See—*
Craig, Jimmie M.; Pohl, Russell A.; and Yost, Paul E.,3,469,805.
Yost, Roderick A.: *See—*
Ellis, Stancel C.; Hersel, Jorge J.; Johnson, Louis H.; Nelson, Ralph H.; and Yost, Roderick A.,3,454,342.
Yost, Vaughn H.: *See—*
Wall, William A., Jr.; and Yost, Vaughn H.,3,443,732.
Yotsuzuka, Masaru; Keshi, Akizo; Hashimoto, Norishige; Kodama, Katsuhisa; and Nakahara, Shigenobu, to Takeda Chemical Industries, Ltd. Polyether polyol composition and polyurethane foams produced therefrom. 3,433,751, 3-18-69, Cl. 260-2.5
Youhouse, Joseph. Afterburner turbine for internal combustion engines. 3,442,077, 5-6-69, Cl. 60-13.
Youker, Mortimer Alexander, du Pont de Nemours, E. I., and Company. Polyisocyanate emulsions. 3,428,592, 2-18-69, Cl. 260-29.2
Youker, Mortimer Alexander, to Du Pont de Nemours, E. I., and Company. Process for the preparation of polyisocyanate reinforced elastomeric foam. 3,450,649, 6-17-69, Cl. 260-2.5
Youmans, Arthur H., to Dresser Industries Inc. Method of core analysis using thermal neutron capture cross section. 3,426,203, 2-4-69, Cl. 250-83.6
Youmans, Arthur H., to Dresser Industries, Inc. Method and apparatus for logging inclined earth boreholes. 3,437,169, 4-8-69, Cl. 181-0.5
Youmans, Arthur H., to Dresser Industries, Inc. Retrievable through drill pipe formation fluid sampler. 3,441,095, 4-29-69, Cl. 175-59.
Youmans, Arthur H., to Dresser Industries, Inc., mesne. Method and apparatus for oxygen activation well logging. 3,465,151, 9-2-69, Cl. 250-83.3
Youmans, Arthur H., to Dresser Industries, Inc. Method and apparatus for radioactivity well logging utilizing the decline of the epithermal nuetron population. 3,487,211, 12-30-69, Cl. 250-83.3
Youmans, Arthur H.; and Hopkinson, Eric C., to Dresser Ubdystruesm Ubc. Radioactivity well logging system having a multiple conductor cable. 3,439,166, 4-15-69, Cl. 250-71.5
Youmans, Arthur H.; and Hopkinson, Eric C., to Dresser Industries, Inc. Differential phase shift induction well logging system. 3,487,294, 12-30-69, Cl. 324-6.
Youmans, Arthur H.: *See—*
Hopkinson, Eric C.; and Youmans, Arthur H.,3,439,165.
Young, Alan C., to Hammond Corporation. Photoresistor delay line scanner for vibrato. 3,452,145, 6-24-69, Cl. 84-1.25
Young, Alan H.: *See—*
Sampson, Merritt B.; and Young, Alan H.,3,464,712.
Sampson, Merritt B.; and Young, Alan H.,3,481,612.
Young, Albert, to Ultra Dynamics Corporation. Ultraviolet fluid purifier having manually operable wiper means. 3,462,597, 8-19-69, Cl. 250-43.
Young, Alexander Gillies: *See—*
Livsey, Walter Oldham; and Young, Alexander Gillies,3,470,066.

Young, Alf T. Reading light for bed headboards. 3,476,926, 11-4-69, Cl. 240f4.
Young, Archie R., II; and Ehrlich, Robert, to United States of America, Air Force, mesne. Diaylaminodialanes and a process for preparing them. 3,433,817, 3-18-69, Cl. 260-448.
Young, Archie R.: *See—*
Moy, David; and Young, Archie R.,3,449,090.
Young, Bill M.: *See—*
Johnson, Billy J.; Totty, Kenneth D.; and Young, Bill M.,3,437,145.
Young, Billy J., to Union Oil Company of California. Concentration of phosphoric acid. 3,420,627, 1-7-69, Cl. 23-165.
Young, Bruce A., to Detrex Chemical Industries, Inc. Recovery of a volatile organic solvent by distillation with solvent feed flow responsive to still temperature. 3,483,092, 12-9-69, Cl. 203-1.
Young, Bruce B.: *See—*
Belsterling, Charles A.; and Young, Bruce B.,3,465,135.
Young, C Frank: *See—*
De Weese, Richard O.; and Young, C Frank,3,471,626.
Young, Carter R., to Otis Engineering Corporation. Well packer with resettable anchor and packer means. 3,467,184, 9-16-69, Cl. 166-129.
Young, Charles A., to Bell Telephone Laboratories, Incorporated. Wire identifier. 3,424,874, 1-28-69, Cl. 179-175.3
Young, Charles N.: *See—*
Ross, Milford N.; Streb, Alan J.; and Young, Charles N.,3,423,249.
Young, Charles R.: *See—*
Bahr, Karl E.; Griswold, Augustus W.; Price, Aldon A.; and Young, Charles R.,3,460,824.
Young, Charles W.: *See—*
Hendrix, John W., Jr.; and Young, Charles W.,3,454,878.
Young, Clinton J. T., to Outlook Engineering Corporation. Apparatus or measuring the trash content of raw cotton. 3,451,756, 6-24-69, Cl. 356-237.
Young, Clyde D. Edge grinding device for doors or the like. 3,421,264, 1-14-69, Cl. 51-74.
Young, D'Arcy Andrews, Jr., to Sprague Electric Company. Ceramic cased chromiumnickel variable resistor with undeformed contact. 3,471,820, 10-7-69, Cl. 338-163.
Young, Dale A.; and Corbett, Luke W., to Esso Research and Engineering Company. Racetrack base paving composition. 3,437,614, 4-8-69, Cl. 260-17.4
Young, Dale L., to Rivetmaster, Inc. Rivet gun for blind rivets. 3,423,986, 1-28-69, Cl. 72-391.
Young, David E., to Schlumberger Technology Corporation. Retrievable well packer. 3,426,846, 2-11-69, Cl. 166-129.
Young, David E. Retrievable well packer apparatus. 3,437,136, 4-8-69, Cl. 166-120.
Young, David E., to Schlumberger Technology Corporation. Retrievable well packer. 3,467,183, 9-16-69, Cl. 166-121.
Young, David E., to Schlumberger Technology Corporation, mesne. Methods for controlling well tools in well bores. 3,485,299, 12-23-69, Cl. 166-244.
Young, David G., Jr.: *See—*
Clark, Myron L.; and Young, David G., Jr.,3,457,912.
Young, David John: *See—*
Fletcher, Charles Philip; Friedlander, Erich Siegfried; Manzler, Maurice Leslie; and Young, David John,3,450,981.
Young, David M., to Dow Chemical Company, The. Purification of hydrogen chloride. 3,446,586, 5-27-69, Cl. 23-154.
Young, David W.: *See—*
Carlos, Donald D.; and Young, David W.,3,471,405.
Carlos, Donald D.; and Young, David W.,3,480,549.
Carlos, Donald D.; Chambes, Robert R.; and Young, David W.,3,449,252.
Carlos, Donald D.; Young, David W.; and Chambers, Robert R.,3,475,338.
Chambers, Robert R.; Isaacson, Henry V.; and Young, David W.,3,472,772.
Clough, Thomas J.; and Young, David W.,3,450,786.
Gower, Bob G.; Isaacson, Henry V.; and Young, David W.,3,485,762.
Isaacson, Henry V.; and Young, David W.,3,454,379.
Kovach, Stephen M.; Sanford, Robert A.; and Young, David W.,3,433,845.
Kovach, Stephen M.; Sanford, Robert A.; and Young, David W.,3,459,814.
Young, David W., to Sinclair Research, Inc. Synthetic polymer compostions stablized with alkyl thioborates. 3,423,359, 1-21-69, Cl. 260-45.7
Young, David W.; and Clough, Thomas J., to Sinclair Research, Inc. Mineral oil containing polymer of styrene or indene and a higher alpha olefin, as a pour depressant. 3,448,050, 6-3-69, Cl. 252-59.
Young, David W.; and Isaacson, Henry V., to Sinclair Research, Inc. Graft copolymer pour point depressors. 3,471,273, 10-7-69, Cl. 44-62.
Young, David W.; and Poss, Richard F, to Sinclair Research, Inc. Graft polymer of natural rubber and polydiene. 3,440,187, 4-22-69, Cl. 260-5.
Young, David W.; Ryan, Patrick W.; and Isaacson, Henry V., to Sinclair Research, Inc. Mineral oil improved in pour point by hydrogenated hydroxy diene polymer. 3,446,740, 5-27-69, Cl. 252-52.
Young, Dean Arthur, to Union Oil Company of California. Process for the manufacture of metal-cation- deficient zeolites. 3,460,904, 8-12-69, Cl. 23-112.
Young, Don W. Flow meter. 3,424,001, 1-28-69, Cl. 73-228.
Young, Donald C., to Union Oil Company of California. Method of facilitating harvest of mature plants. 3,447,919, 6-3-69, Cl. 71-69.
Young, Donald C., to Union Oil Company of California. Method of facilitating the harvest of mature plants. 3,457,062, 7-22-69, Cl. 71-70.
Young, Donald C., to Union Oil Company of California. Oxidation of olefins. 3,471,532, 10-7-69, Cl. 260-410.9
Young, Donald Sanford, to Western Electric Company, Incorporated. Method of and apparatus for cooling a laser crystal and/or precluding preferential lasing. 3,423,692, 1-21-69, Cl. 331-94.5
Young, Douglas L. G., to Canadian Ingersoll-Rand Company Limited. Screening apparatus. 3,458,038, 7-29-69, Cl. 209-3.
Young, Edward L. Cleaning tool. 3,474,480, 10-28-69, Cl. 15-114.
Young, Edwin C. Method of making filament wound structural columns. 3,429,758, 2-25-69, Cl. 156-79.
Young, Einar T.: *See—*
Hall, Lawrence J.; Mayer, Robert; and Young, Einar T.,3,435,238.
Mayer, Robert; Shawhan, Elbert N.; and Young, Einar T.,3,473,380.
Young Electric Sign Company: *See—*
Jones, Benjamin F., Sr., 3,426,868.
Young, Evan J.; and Wilder, Gene R., to Monsanto Company. N,N'-di(1,3,3-trimethylbutyl)-p-phenylenediamine as rubber stabilizer. 3,427,281, 2-11-69, Cl. 260-45.9
Young, Evan J.; and Wilder, Gene R., to Monsanto Company. N,N'-di(1,3,3-trimethylbutyl-*p*- phenylenediamine. 3,481,983, 12-2-69, Cl. 260-577.
Young, Frederick C., to Bell Telephone Laboratories, Incorporated. Alternating polarity current driver using cascaded active switching elements. 3,435,256, 3-25-69, Cl. 307-262.
Young, Frederick C.: *See—*
Hartwell, Walter T.; and Young, Frederick C.,3,430,855.
Young, Frederick L., Jr., to Leopold, F. B., Company, Inc. Liquid clarifier weir construction. 3,465,889, 9-9-69, Cl. 210-538.
Young, Freeman M., to Air Products and Chemicals, Inc. Isomerization of tetrahydrophthalic anhydride. 3,470,214, 9-30-69, Cl. 260-346.3
Young, Freeman M.: *See—*
Shulman, Garson P.; and Young, Freeman M.,3,466,302.
Young, George G. Construction set. 3,458,949, 8-5-69, Cl. 46-16.
Young, Gordon W. Self-illuminating devices and systems. 3,466,501, 9-9-69, Cl. 315-169.
Young, Harland H., to Swift & Company. Films of laminated protein. 3,424,648, 1-28-69, Cl. 161-214.
Young, Harland H., to Swift & Company. Fuel for chemical heaters. 3,429,672, 2-25-69, Cl. 44-3.
Young, Harland H., to Swift & Company. Protein insulation material. 3,429,768, 2-25-69, Cl. 161-214.
Young, Harland H., to Swift & Company. Unsaturated sultone derivatives of proteins. 3,453,222, 7-1-69, Cl. 260-8.
Young, Harland H.; Warner, William D.; and McAnelly, John K., to Swift & Company. Process of purifying bromelain. 3,442,764, 5-6-69, Cl. 195-66.
Young, Henry T. Conveying system. 3,424,501, 1-28-69, Cl. 302-21.
Young, Henry T. Apparatus for blending particulate solids. 3,448,965, 6-10-69, Cl. 259-95.
Young, Henry T. Solids flow collector. 3,448,968, 6-10-69, Cl. 259-180.
Young, Hobart P.: *See—*
Stensaker, Lee A.; Heymann, Seymour E.; Young, Hobart P.; and Vilcins, Ilmar J.,3,442,732.
Young, Horace A.: *See—*
Littwin, Arthur K.; and Littwin, Robert L., 3,445,620.
Littwin, Arthur K., 3,473,287.
Littwin, Arthur K.; and Littwin, Donald F., 3,478,876.
Young, Howard S.: *See—*
Hargis, Charles W.; and Young, Howard S.,3,441,569.
Hargis, Charles W.; and Young, Howard S.,3,476,747.
Hargis, Charles W.; and Young, Howard S.,3,479,374.
Hargis, Charles W.; and Young, Howard S.,3,485,877.
Hargis, Charles W.; Young, Howard S.; and Reynolds, Jefferson Wayne,3,453,331.
Young, Howard S.; and McDaniel, Edgar L., to Eastman Kodak Company. Vapor phase process for preparing unsaturated aliphatic aldehydes and monocarboxylic acids. 3,437,690, 4-8-69, Cl. 260-533.
Young, Howard S.; and Reynolds, Jefferson Wayne, to Eastman Kodak Company. Catalytic synthesis of ketones from a mixture of an aldehyde and an acid. 3,466,334, 9-9-69, Cl. 260-595.

Young, Ian R.; Keefe, Arthur T.; and Moss, Geoffrey, to Evershed & Vignoles Limited. Data transmission system having means for comparing signal duration and amplitude. 3,475,727, 10-28-69, Cl. 340-147.
Young, Jack A.: *See—*
Flinn, Richard A.; and Young, Jack A.,3,436,455.
Young, James E., to Xerox Corporation. Air-supported housing containing TESI printing drum. 3,438,052, 4-8-69, Cl. 346-74.
Young, James E.: *See—*
Wright, Raymond T.; and Young, James E.,3,437,020.
Zoppoth, Raymond Carl; and Young, James E.,3,480,965.
Young, James L. Pipe cutting and beveling apparatus. 3,431,646, 3-11-69, Cl. 30-97.
Young, James L.: *See—*
Pekera, Paul; and Young, James L.,3,474,912.
Young, Jing-Jue, to Westinghouse Electric Corporation. Scanning circuits operative with line voltage type of power supply. 3,467,882, 9-16-69, Cl. 315-27.
Young, Jing-Jue: *See—*
Knorr, Gustave A., Jr.; and Young, Jing-Jue,3,427,503.
Young, John C., to Bendix Corporation, The, mesne. BaO-Nb_2O_5-S_iO_2 glass compositions for use in fiber-optics. 3,460,954, 8-12-69, Cl. 106-54.
Young, John S.: *See—*
Schildgen, Robert M.; and Young, John S.,3,440,355.
Young, John T.; and Jacobs, Paul F., to United States Borax & Chemical Corporation. Process for producing flaked sodium metaborate compositions. 3,464,810, 9-2-69, Cl. 71-82.
Young, Jurd M.: *See—*
Thompson, Roy E.; and Young, Jurd M.,3,421,197.
Young, Kenneth A. Torque transmitting differential. 3,474,689, 10-28-69, Cl. 74-711.
Young , Laurence R.; and Newman, Joel S., to Space Sciences Incorporated, and Whittaker Corporation. Eye position and movement monitor. 3,473,868, 10-21-69, Cl. 351-6.
Young, Lawrence H.: *See—*
Mecklenburg, Paul; and Young, Lawrence H.,3,462,749.
Young, Luther W.: *See—*
Farris, Louis A., Jr.; and Young, Luther W.,3,425,250.
Young, Marvin Kendall, Jr. Method for separating sediment from supernatant fluid. 3,441,205, 4-29-69, Cl. 233-26.
Young, Mary B.: *See—*
Myers, Dirck V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B.,3,458,397.
Young, Niels O., to Block Engineering, Inc. Pressure generating device. 3,453,687, 7-8-69, Cl. 18-5.
Young, Niels O., to Block Engineering, Inc. Interferometer microphone. 3,470,329, 9-30-69, Cl. 179-121.
Young, Norman: *See—*
Richardson, Philip; and Young, Norman,3,430,126.
Young, Paul E.; and Gunyou, Lyman J., to Avco Corporation. Material separating mechanism for a husking unit. 3,450,138, 6-17-69, Cl. 130-5.
Young, Phillip E.: *See—*
Erikson, Herman E.; Brackett, Robert D.; and Young, Phillip E.,3,462,599.
Young, Ralph L.; and Humbert, Kingsley E., Jr., to Wix Corporation. Filters. 3,458,977, 8-5-69, Cl. 55-490.
Young, Raymond H., Jr.; Cohen, Saul M.; and Markhart, Albert H., to Monsanto Company, mesne. Process of coating a substrate with a polymeric ultraviolet light barrier coating and the coated substrate. 3,460,961, 8-12-69, Cl. 117-33.3
Young, Raymond H., Jr.; Cohen, Saul M.; Markhart, Albert H.; and Serlin, Irving, to Monsanto Company. Polymeric ultraviolet barrier coatings. 3,444,129, 5-13-69, Cl. 260-47.
Young, Reginald Searles, to British Aluminium Company Limited, The. Instrument for measuring the thickness of a nonconducting film on a metal base and for measuring the resistivity of a metal sample. 3,454,874, 7-8-69, Cl. 324-34.
Young, Reginald S.; and Pitcher, David Edward, to British Aluminium Company Limited, The. Methods of and apparatus for testing molten metal. 3,444,726, 5-20-69, Cl. 73-61.
Young, Richard L., to Martin-Marietta Corporation. Coated refractory. 3,483,012, 12-9-69, Cl. 117-33.
Young, Richard W.: *See—*
Farney, Leonard C.; Rogers, Howard G.; and Young, Richard W.,3,455,686.
Milligan, Terry W.; and Young, Richard W.,3,473,925.
Young, Richard W., to Polaroid Corporation. Fluid containers. 3,438,550, 4-15-69, Cl. 222-107.
Young, Robert Eric. Method and apparatus for measuring temperature. 3,459,043, 8-5-69, Cl. 73-362.
Young, Robert R.: *See—*
Zweifel, Charles H.; Crittenden, Geoffrey H.; and Young, Robert R.,3,486,641.
Young, Robert William, to Autic Developments Limited. Liquid measures. 3,460,723, 8-12-69, Cl. 222-453.
Young, Robert W.: *See—*
Snitzer, Elias; Young, Robert W.; and Woodcock, Richard F.,3,422,025.
Young, Robert W., to American Optical Corporation, mesne. Laserable material. 3,471,408, 10-7-69, Cl. 252-301.4
Young, Robert W.; Graf, Robert E.; and Robinson, Charles C., to American Optical Company. Materials and structures for optical Faraday rotation devices. 3,420,601, 1-7-69, Cl. 350-151.
Young, Roger W., to Dusenbery, John, Company, Inc. Turret winder for tape. 3,472,462, 10-14-69, Cl. 242-56.
Young, Samuel. Electrically heated pillow. 3,480,760, 11-25-69, Cl. 219-528.
Young Spring & Wire Corporation: *See—*
Gamelcy, Lionel; and Tischler, Henry J., 3,428,975.
Young, Stanley C.: *See—*
Townsend, Edwin F.; and Young, Stanley C.,3,477,896.
Young, Stephen A.: *See—*
Christiansen, Gerald E., 3,472,283.
Politz, William E., 3,427,049.
Politz, William E., 3,453,667.
Politz, William E., 3,455,581.
Politz, William E., 3,468,512.
Politz, William E., 3,471,873.
Young, Stuart Gerald, to Heatlock Industrial Furnaces Limited. Electrical resistance furnaces. 3,440,322, 4-22-69, Cl. 13-20.
Young, Thomas J.; Leonard Charles F.; and Leonard, Claude H. Land leveler. 3,428,133, 2-18-69, Cl. 172-4.5
Young, Thomas: *See—*
Roshon, David, Jr.; and Young, Thomas,3,435,186.
Young, Warren L.; and Posey, Bob, Jr., to Dow Chemical Company, The. Process for the chlorination of polyolefins. 3,454,544, 7-8-69, Cl. 260-88.2
Young, Warren L.: *See—*
Schnebelen, David F.; Young, Warren L.; Blanchard, Robert R.; and Graham, Glen H.,3,467,732.
Young, Wayne H.: *See—*
Fall, Herbert S.; Harrell, James M.; Pulley, James A.; Vaughn, Lawrence M.; York, William D.; and Young, Wayne H.,3,450,446.
Fall, Herbert S.; Harrell, James M.; York, William D.; Young, Wayne H.; and Vaughn, Lawrence M.,3,485,539.
Young, William E.: *See—*
Pinto, Patrick J., 3,439,891.
Steadman, Allen P., 3,481,101.
Young, William E. Preferentially deformable containers. 3,426,939, 2-11-69, Cl. 220-66.
Young, William E.; Pinto, Patrick J.; and Wolfelsperger, Robert O. Apparatus for bonding plastic. 3,484,855, 12-16-69, Cl. 156-513.
Young, William G., to Miller Printing Machinery Co. Printing press backlash control mechanism. 3,477,304, 11-11-69, Cl. 74-409.
Young, William O., Jr., to Du Val Development Corporation. Earth digging and conveying apparatus. 3,422,913, 1-21-69, Cl. 175-213.
Young, William Rae, Jr.: *See—*
Creasy, Fred K.; Horlacher, Robert L.; Logan, Mason A.; Smith, Larrabee M.; and Young, William Rae, Jr.,3,440,337.
Young, Willie C. Split pack of cigarettes. 3,420,360, 1-7-69, Cl. 206-41.2
Young Windows, Inc.: *See—*
Koch, Charles H., Jr., 3,449,863.
Youngberg, Charles Harold; and Hansen, Harold Valentine, to Deere & Company. Disk harrow. 3,454,106, 7-8-69, Cl. 172-595.
Youngberg, Charles Harold: *See—*
Hansen, Harold Valentine; Youngberg, Charles Harold; and Ford, Perry, Jr.,3,478,828.
Youngblood, Elizabeth Y. Method of preparing a cosmetic formulation useful as a facial mask. 3,471,624, 10-7-69, Cl. 424-362.
Youngblood, Jack L.Spacer clip for a draftsman's straight edge. 3,432,929, 3-18-69, Cl. 33-107.
Youngblood, Jack L.; and Christian, Thomas. Bedpan with deodorizing means. 3,486,173, 12-30-69, Cl. 4-112.
Youngblood, Leonard C.; Zaffaroni, Peter P.; and Jablonski, Casmer S., to Uniroyal, Inc. Venting of tire molds. 3,467,989, 9-23-69, Cl. 18-38.
Youngblood, Leonard C.: *See—*
Zaffaroni, Peter P.; and Youngblood, Leonard C.,3,467,988.
Youngblood, William W. Cable fastening means. 3,475,795, 11-4-69, Cl. 24-122.6
Youngblut, Charles W.: *See—*
Peart, Leslie T.; and Youngblut, Charles W.,3,427,546.
Youngdale, Gilbert A., to Upjohn Company, The. 3,4-Dihalocinnamamides. 3,444,197, 5-13-69, Cl. 260-558.
Youngdale, Gilbert, to Upjohn Company, The. Process of controlling fungi with 3,4-dihalocinnamides. 3,465,082, 9-2-69, Cl. 424-324.
Younge, Paul Dennis: *See—*
Abend, Chester J.; Adams, Gerald M.; and Younge, Paul Dennis,3,486,322.
Younger, Cousby: *See—*
Quine, John P.; and Younger, Cousby,3,424,943.

Younger, Maurice Bowman, Jr.: *See*—
Lehmann, Charles David; and Younger, Maurice Bowman, Jr.,3,473,834.
Youngguist, David, d/b/a Youngguist, David and Company: *See*—
Youngquist, David, 3,426,257.
Younghouse, Edwin C.; and Panzer, Jerome, to Esso Research and Engineering Company. Reaction product of a phosphosulfurized hydrocarbon and an alkylene amino phenol and method for preparing. 3,458,495, 7-29-69, Cl. 260-136.
Youngman, Derek Henry, to Molins Machine Company Limited. Article transferring mechanism. 3,420,384, 1-7-69, Cl. 214-1.
Youngman, Derek Henry, to Molins Machine Company Limited. Mouthpiece cigars. 3,438,378, 4-15-69, Cl. 131-13.
Youngman, Edward A.; Bauer, Ronald S.; and Dewhirst, Kenneth C., to Shell Oil Company. Process for preparing stable polysulfones. 3,444,145, 5-13-69, Cl. 260-79.3
Youngman, Edward A.: *See*—
Holler, Howard V.; and Youngman, Edward A.,3,481,914.
Youngquist, David, to Youngguist, David, d/b/a Youngguist, David and Company, mesne. Multiple capacitor and method of making the same. 3,426,257, 2-4-69, Cl. 317-256.
Youngquist, John A.: *See*—
Spellman, Patrick J.; and Youngquist, John A.,3,466,195.
Youngs, Wilbur R. Flexible door closure. 3,421,568, 1-14-69, Cl. 160-310.
Youngstown Foundry and Machine Co., The: *See*—
Keil, Walter M., 3,427,959.
Youngstown Sheet and Tube Company, The: *See*—
Cullen, Roy H.; Elliott, Charles H.; Aker, Jimmie R.; and Burke, William E., 3,446,297.
Cullen, Roy H.; and Elliott, Charles H., 3,481,549.
Ford, Bruce; and Swisher, Stanley A., 3,421,184.
Kupsis, Visvaldis; and Morgan, Royston P., 3,433,720.
LaLonde, Carl Henry; and Van Huffel, James Howard, 3,483,910.
Reiley, Bertrand Miles, 3,483,959.
Youngstown Steel Door Company, The: *See*—
Jones, William M.; and Morris, William A., 3,438,082.
Morris, William A.; and Serio, Anthony W., 3,474,486.
Soddy, Thomas C., 3,427,998.
Youngstrom, Jerry R., to Ampex Corporation. Photoelectric loop length detector with optical biasing means for the photocells. 3,424,915, 1-28-69, Cl. 250-219.
Youngwood Electronic Metals, Inc.: *See*—
Domin, Robert A., 3,454,374.
Younkin, James R., to Thurman & Younkin, Inc. Flight control system having rate-based stabilization. 3,450,970, 6-17-69, Cl. 318-18.
Younkin, James R., to Mitchell Industries, Inc. Multifunction synchronous filter. 3,465,218, 9-2-69, Cl. 318-18.
Younkin, James R., to Mitchell Industries, Inc. Aircraft pitch axis servo control including noise elimination and non-linear compensation. 3,470,430, 9-30-69, Cl. 318-18.
Yount, David E.: *See*—
Odian, Allen C.; Bulos, Fatin; Villa, Francesco; and Yount, David E.,3,445,661.
Yount, Ronald E.: *See*—
Bufkin, Dale E.; Murphy, Willard G.; and Yount, Ronald E.,3,425,336.
Yount, William R., to International Business Machines Corporation. Circuits with electroluminescent-photoconductive dynamic level control. 3,463,888, 8-26-69, Cl. 179-100.1
Younts, Roy L.Recoil absorbing attachment with compressed air restoring mean's therein. 3,484,977, 12-23-69, Cl. 42-74.
Yourke, Hannon S.; and Fletcher, Royce W., to International Business Machines Corporation. Memory sense amplifier. 3,482,176, 12-2-69, Cl. 330-30.
Youse, Earl L., to Dixon, Joseph, Crucible Company, The. Method of applying a graphite coating to glass fibers in textile forms. 3,483,019, 12-9-69, Cl. 117-69.
Yovanovich, Joseph T., 50% to Berger, Milton. Apparatus for burnishing the end of a tube or the like. 3,464,327, 9-2-69, Cl. 93-83.
Yrene, Carl S., to United States of America, Atomic Energy Commission. Method for induction heating. 3,431,379, 3-4-69, Cl. 219-10.41
Ytterhag, Arne, to Telefonaktiebolaget L M Ericsson. Locking device. 3,449,973, 6-17-69, Cl. 74-128.
Ytzen, Glenn R.; and Hutchens, Wilbur D., to Fisher Governor Company. Ball valve assembly. 3,456,916, 7-22-69, Cl. 251-309.
Yu, Arthur J., to Thiokol Chemical Corporation. Graft interpolymers of poly(alkylene monosulfides) and vinyl compounds. 3,425,923, 2-4-69, Cl. 204-159.15
Yu, Johnny Dah-Chun: *See*—
Maynard, John T.; and Yu, Johnny Dah-Chun,3,421,027.
Ronden, Clifford P.; and Yu, John,3,425,966.
Ronden, Clifford P.; and Yu, John,3,445,404.
Ronden, Clifford P.; and Yu, John,3,462,380.
Yu, Michael: *See*—
Tsao, Thomas K.; and Yu, Michael,3,436,275.
Yu, Quin Shen: *See*—
Fenstermaker, Lloyd H.; and Yu, Quin Shen,3,478,407.
Fulginiti, William P.; and Yu, Quin Shen,3,471,039.
Yu, Se Puan, to General Electric Company. Gunn effect device having improved performance. 3,486,132, 12-23-69, Cl. 331-107.
Yu, Se Puan: *See*—
Tantraporn, Wirojana; and Yu, Se Puan,3,482,119.
Yuan, Shao Wen. High speed rotor. 3,446,288, 5-27-69, Cl. 170-135.4
Yuan, Shao Wen. Jet circulation control hydrofoil. 3,472,192, 10-14-69, Cl. 114-66.5
Yuan, William Ke-Chin, to International Telephone and Telegraph Corporation. Executive override. 3,482,055, 12-2-69, Cl. 179-18.
Yuan, William Ke-Chin; Frisbie, Jack Gene; and Bull, James George, to International Telephone and Telegraph Corporation. Current controlled, self-seeking telephone switching system. 3,452,157, 6-24-69, Cl. 179-18.
Yuasa Battery Company, Limited: *See*—
Jinushi, Osamu; Hasegawa, Yoshio; and Hossaka, Takuji, 3,421,246.
Matsuno, Shiro, 3,442,714.
Murata, Kazuo, 3,450,650.
Nagai, Yoshiki; and Kita, Akira, 3,484,659.
Yucelen, Yuksel: *See*—
Offner, Manfred; and Yucelen, Yuksel,3,453,505.
Yudelson, Joseph S., to Eastman Kodak Company. Non-aqueous silver halide photographic process. 3,438,776, 4-15-69, Cl. 96-28.
Yueh, Mao Hsun, to General Mills, Inc. Method for improving and increasing the flavor of foods by the addition of deoxynucleosides. 3,421,905, 1-14-69, Cl. 99-140.
Yuen, Ng Wing, to Pilkington Brothers Limited. Manufacture of sheet material in ribbon form. 3,482,954, 12-9-69, Cl. 65-29.
Yugen Kaisha Luxe: *See*—
Nakagome, Eiko, 3,424,644.
Yui, Saburo: *See*—
Onishi, Shigeru; and Yui, Saburo,3,469,396.
Yukami, Susumu: *See*—
Tanaka, Minako; and Yukami, Susumu,3,484,249.
Yukawa, Shinichi. Method for transporting timbers by sea. 3,450,279, 6-17-69, Cl. 214-152.
Yukelson, Arnold A.: *See*—
Adicoff, Arnold; and Yukelson, Arnold A.,3,434,990.
Yuki Gosei Kogyo Co., Ltd.: *See*—
Onishi, Isao; Nishi, Akira; and Kakizawa, Tadao, 3,478,015.
Yuki, Shiro: *See*—
Yamanaka, Toshio; Yuki, Shiro; and Shibatani, Haruo,3,474,154.
Yuminaka, Takeo; and Iwasaka, Tatsuo, to Hitachi, Ltd. Braking apparatus for D-C motor. 3,463,991, 8-26-69, Cl. 318-379.
Yumoto, Gonroku, to Chiyoda Kako Kensetsu Kabushiki Kaisha. Device for damping surface roll of liquid in storage tank. 3,421,650, 1-14-69, Cl. 220-26.
Yumoto, Hirosuke; Hashimoto, Takeshi; Morita, Yutaka; Shibata, Yoshinobu; Kirimura, Shunichiro; Kono, Mototsugu; and Kojima, Yasuhiro, to Toyo Rayon Kabushiki Kaisha. Apparatus for making baglike bodies of thermoplastic synthetic resin films. 3,449,196, 6-10-69, Cl. 156-498.
Yunan, Malak E.: *See*—
Olson, Edwin G.; Wills, Thomas M.; and Yunan, Malak E.,3,474,500.
Yung, William H., to Smith, A. O., Harvestore Products, Inc. Unloading mechanism for a storage structure. 3,434,605, 3-25-69, Cl. 214-17.
Yungblut, Charles Walter, to Beckman Instruments, Inc. Mounting adapter for adjustable electrical components. 3,420,946, 1-7-69, Cl. 174-52.
Yurasek, John F.; and Owens, Abner, Jr., to Bendix Corporation, The. High speed magnetic deflection amplifier. 3,426,245, 2-4-69, Cl. 315-27.
Yurasek, John F.: *See*—
Kendall, Kenneth J.; and Yurasek, John F.,3,471,742.
Yurasko, George, Jr., to Eutectic Welding Alloys Corporation. Coated spray-weld alloy powders. 3,428,442, 2-18-69, Cl. 29-191.2
Yurcheshen, Michael; Levine, Morris; and Brane, Ralph M., to PPG Industries, Inc. Aqueous compositions adapted for electrodeposition. 3,449,228, 6-10-69, Cl. 204-181.
Yurigi, Shojiro: *See*—
Ishii, Toshio; Takamatsu, Yasuto; Yurigi, Shojiro; and Masuda, Katsutada,3,483,292.
Yurkinas, Joseph W. Shooting game. 3,428,320, 2-18-69, Cl. 273-102.1
Yurko, Joseph Aloyus: *See*—
Elkind, Vincent Theodore; Yurko, Joseph Aloyus; and Hunter, Robert Tweedy,3,476,583.
Yusem, Milton. Lubrication of instruments. 3,468,400, 9-23-69, Cl. 184-1.
Yutaka Seimitsu Kogyo, Ltd.: *See*—
Takahashi, Ryosetsu; and Hanzawa, Toru, 3,464,312.

Yuter, Morton Gerald: *See*—
Morris, Jack; Yuter, Morton Gerald; Rudd, Wallace C.; and Allen, Richard J., Jr.,3,420,976.
Yuzawa, Syuichi: *See*—
Kuribayashi, Sadatomo; Tayama, Eisei; Mishima, Makio; and Yuzawa, Syuichi,3,451,379.
Yvitch, Morris. Easy-loading toilet paper holder. 3,467,330, 9-16-69, Cl. 242-55.53
Zaadnoordijk, Gottlieb Lebrecht, to American Enka Corporation. Process for producing fiber reinforced bitumen- containing products and the reinforced products obtained thereby. 3,457,136, 7-22-69, Cl. 161–089
Zaayenga, Ralph: *See*—
Harvey, Wildon T.; and Zaayenga, Ralph,3,433,665.
Zabalbeitia, Telesforo G. Electric brakes. 3,465,853, 9-9-69, Cl. 188-163.
Zabalbeitia, Telesforo G. Bivoltage connection apparatus for electric brakes. 3,466,592, 9-9-69, Cl. 339-18.
Zabasnik, Frederick J., to Phillips Petroleum Company. Tubular extrusion having integral web. 3,479,422, 11-18-69, Cl. 264-98.
Zabielski, Stephen F.: *See*—
Jubin, John C., Jr.; and Zabielski, Stephen F.,3,441,498.
Zabik, Eugene J.: *See*—
Habib, David P.; Allard, Robert S.; and Zabik, Eugene J.,3,479,183.
Zabin, Burton A., to Bio-Rad Laboratories. Method of making agarose. 3,423,396, 1-21-69, Cl. 260-209.
Zablotsky, Igor Evgenievich; Korostelev, Jury Alexandrovich; Lebedev, Anatoly Vasilievich; Sviblov, Lev Borisovich; and Tolchinsky, Efim Moiseevich. Vibrator indicator for turboengine rotor blading. 3,467,358, 9-16-69, Cl. 253-77.
Zaborney, John F., to Mallory, P. R., & Co., Inc. Circular dispensing device for batteries. 3,433,351, 3-18-69, Cl. 206-37.
Zabsky, John M.: *See*—
Sher, Neil C.; and Zabsky, John M.,3,474,814.
Zacchetti, Edvino: *See*—
Bertrandi, Luigi; and Zacchetti, Edvino,3,482,845.
Zaccone, Joseph V., to Miller, Samuel A. Portable polishing device. 3,448,476, 6-10-69, Cl. 15-97.
Zacharias, Ellis M., Jr.: *See*—
Anderson, Clifford E.; and Zacharias, Ellis M., Jr.,3,422,329.
Zacharias, Ernst: *See*—
Bierl, Richard; and Zacharias, Ernst,3,423,514.
Zacharias, Ernst, to Hohner Matth AG. String instruments having a keyboard. 3,447,410, 6-3-69, Cl. 84-247.
Zacher, Norman E., to Singer Company, The. Thread tension devices for sewing machines. 3,421,713, 1-14-69, Cl. 242-155.
Zachrich, Charles W., to Sylvania Electric Products, Inc. Color cathode ray tube having shadow mask frame formed to accommodate a support system. 3,449,612, 6-10-69, Cl. 313-85.
Zachry, David R.: *See*—
Bright, Elvin M.; Zachry, David R.; and Cardone, Joseph T.,3,427,284.
Zachry, James Bryan: *See*—
Bilisoly, Julius Philip; and Zachry, James Bryan,3,434,964.
Zackey, James. Safety signal for vehicles. 3,427,583, 2-11-69, Cl. 340-66.
Zadanoff, Walter R.; and Andell, Charles R. Lock for drawers and cabinets. 3,437,365, 4-8-69, Cl. 292-202.
Zadig, Ernest A. Teaching aid for self instruction and testing. 3,478,441, 11-18-69, Cl. 35-9.
Zadra, Mario D.: *See*—
Tazuma, James J.; and Zadra, Mario D.,3,432,572.
Zadron, Emil; and Kemonth, Alton S., to Jet-Clean Co. Jet cleaning apparatus with filter means for removing debris from the cleaning fluid. 3,439,689, 4-22-69, Cl. 134-104.
Zaffaroni, Peter P.; and Youngblood, Leonard C., to Uniroyal, Inc. Vibration vented tire mold. 3,467,988, 9-23-69, Cl. 18-38.
Zaffaroni, Peter P.: *See*—
Youngblood, Leonard C.; Zaffaroni, Peter P.; and Jablonski, Casmer S.,3,467,989.
Zaffrann, Albert A.; Balint, Joseph A.; and Weidmann, Siegfried, to Allen-Bradley Company. Mounting hardware for printed circuit cards. 3,423,719, 1-21-69, Cl. 339-121.
Zafiroglu, Dimitri P.: *See*—
Owens, John E.; and Zafiroglu, Dimitri P.,3,481,005.
Zafiroglu, Dimitri P., to Du Pont de Nemours, E. I., and Company. Forming a substantially rigid article having a thermoplastic material as at least one exposed surface. 3,454,443, 7-8-69, Cl. 156-287.
Zafransky, Vladimir Mikhailovich: *See*—
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; Efodiev, Evgeny Petrovich; and Zafransky, Vladimir Mikhailovich,3,460,200.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; and Zafransky, Vladimir Mikhailovich,3,460,201.
Zagar, Inc.: *See*—
Ludwig, Albert R., 3,428,765.
Zagone, Peter V.; Hesse, Jack E., Jr.; and Jones, Richard P., to United States of America, Air Force. Inertial platform stabilization employing a laser beam. 3,439,170, 4-15-69, Cl. 250-203.
Zagoren, Bonnie L.; Otey, Felix H.; and Mehltretter, Charles L., to United States of America, Agriculture. Process for preparing rigid polyurethane foams of open cell structure. 3,433,752, 3-18-69, Cl. 260-2.5
Zagorski, Jacek Januariusz; and Wright, Ernest Walter, to Massey-Ferguson (Australia) Limited. Reversible topper for cane harvester. 3,473,308, 10-21-69, Cl. 56-63.
Zagorski, Jacek J.: *See*—
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W.,3,434,270.
Gaunt, James K.; Zagorski, Jacek J.; Player, Alfred; and Fogels, Mintauts W.,3,434,271.
Zagotta, Nicholas A.; and Rogers, Charles J., to Interlake Steel Corporation. Pallet rack beam retainer. 3,463,325, 8-26-69, Cl. 211-148.
Zahlaus, Helmut, to Firma P.I.V. Antrieb Werner Reimers KG. Reverse planetary gear. 3,448,638, 6-10-69, Cl. 74-804.
Zahler, Wolf: *See*—
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf,3,453,242.
Zahn, Christian, to Schuberth-Werk K.G. Pivotable structure. 3,419,907, 1-7-69, Cl. 2-10.
Zahn, Helmut; and Bahra, Mamoun, to I.W.S. Nominee Company Limited. Process for coating a substrate of keratinous fibers with polyamide. 3,484,272, 12-16-69, Cl. 117-62.1
Zahn, Walter J., to Uniseal, Inc. Sealing assembly for panels. 3,456,408, 7-22-69, Cl. 52-208.
Zahnfabrik Wienand Sohne & Co. G.m.b.H.: *See*—
Eicker, Robert, 3,441,652.
Zahnradfabrik Friedrichshafen Aktiengesellschaft: *See*—
Binger, Bernhard; and Duernay, Karlheinz, 3,439,559.
Dietrich, Georg; and Kehrer, Georg, 3,439,623.
Jablonsky, Erich, 3,461,779.
Liebert, Karl-Heinz, 3,470,758.
Magg, Alfred; and Schreiner, Friedrich, 3,470,766.
Wagner, Heinrich; and Jablonsky, Erich, 3,436,974.
Wagner, Heinrich; and von Fraunberg, Hans-Ch., 3,447,394.
Winter, August; Mann, Egon; Pfeiffer, Willi; and Arnegger, Wilhelm, 3,433,087.
Winter, August; and Mann, Egon, 3,442,346.
Zahnstecher, Leonard W., to Foster Wheeler Corporation. Ammonium nitrate-calcium carbonate fertilizer mixture. 3,421,878, 1-14-69, Cl. 71-60.
Zahradnik, Ray L.: *See*—
Putnam, Richard E.; Brecher, Lee E.; Archer, Dave H.; and Zahradnik, Ray L.,3,437,325.
Zahuranec, Emery J.: *See*—
Lennon, Fred A.; Zahuranec, Emery J.; Dodge, Harry G.; and Szohatzky, Zoltan,3,475,948.
Lennon, Fred A.; Zahuranec, Emery J.; Szohatzky, Zoltan; and Beck, Edward,3,447,405.
Zaichik, Evegeny Bentsionovich: *See*—
Rusanovich, Nikolai Grigorievich; Dmitriev, Ivan Sergeevich; Korobov, Yakov Vasilievich; Volfenzon, Shmul Ovshievich; Kostin, Boris Jurievich; Zaichik, Evegeny Bentsionovich; and Emelyanov, Vasily Semenovich,3,450,376.
Zaidan Hojin Denryoku Chuo Kenkyusho: *See*—
Machida, Takehiko, 3,437,878.
Zaidan Hojin Parametion Kenkyusho (known as Parametron Institute): *See*—
Goto, Eiichi, 3,432,680.
Zaidan, Josep P. Hair curling apparatus. 3,463,169, 8-26-69, Cl. 132-34.
Zaidanhojin Nitto Rikagaku Kenkyujo: *See*—
Yamaguchi, Hachiro; and Nakano, Keiji, 3,442,902.
Zaiser, Wolfgang: *See*—
Forster, Hans-Joachim M.; and Zaiser, Wolfgang,3,469,473.
Forster, Hans-Joachim M.; and Zaiser, Wolfgang,3,483,771.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; Efodiev, Evgeny Petrovich; and Zafransky, Vladimir Mikhailovich. Cabinet for air-stream cooling of filament spun from a polymeric melt. 3,460,200, 8-12-69, Cl. 18-8.
Zaitsev, Alexandr Pavlovich; Klochko, Nikolai Fedorovich; Marchenko, Leonid Fedorovich; Efodiev, Evgeny Petrovich; Khused, German Ionasovich; and Zafransky, Vladimir Mikhailovich. Cabinet for air-stream cooling of filament spun from a polymeric melt in a spinning machine. 3,460,201, 8-12-69, Cl. 18-8.
Zajac, Anthony J.; and Hahn, Edward J., to American Welding & Engineering Co., Inc. Welding gun water seal. 3,445,064, 5-20-69, Cl. 239-132.3
Zajacek, John G.: *See*—
Baker, Thomas Nelson, III; Michalski, Conrad; Sheng, Ming Nan; and Zajacek, John G.,3,480,519.
Sheng, Ming Nan; and Zajacek, John G.,3,434,975.
Sheng, Ming Nan; and Zajacek, John G.,3,453,218.
Zak, Alfred M. Electrical terminal. 3,425,029, 1-28-69, Cl. 339-252.

Zak, Erantisek: *See—*
Cerman, Josef; Louda, Zdenek; Nepozitek, Ladislav; and Zak, Erantisek,3,486,573.
Zak, Theodore J.: *See—*
Blum, Raymond T.; and Zak, Theodore J.,3,444,652.
Zak, William J.: *See—*
Tashlick, Irving; Rutter, William H.; and Zak, William J.,3,442,849.
Zakaitis, Robert C.; and Jacevicius, Joseph. Quick-release anchor. 3,463,112, 8-26-69, Cl. 114-208.
Zakharova, Antonina Dmitrievna: *See—*
Izergina, Evgenia Valentinovna; Yakovlev, Georgy Konstantinovich; Zakharova, Antonina Dmitrievna; and Komin, Nikolai Egorovich,3,450,635.
Zakheim, Jacques; Dumont, Georges L.; and Dunand, Francois M., to Office National d'Etudes et de Recherches Aerospatiales. Radial speed measuring device for clock trajectography. 3,453,625, 7-1-69, Cl. 343-112.
Zakim, Gerald; and Shihadeh, Musa M., to Latex and Polymer Research Corporation. Method for coating a mold with a polyurethane release agent. 3,427,178, 2-11-69, Cl. 117-5.1
Zaklady Mechaniki Precyzyjnei- Przedsiebiorstwo Panstwowe Gdansk-Oliva: *See—*
Hiszpanski, Jan, 3,475,957.
Zakrawacz, Stanislaw: *See—*
Budzynski, Kazimierz; Juszczyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; and Zakrawacz, Stanislaw,3,479,019.
Goszyk, Oskar; Budzynski, Kazimierz; Juszcyk, Leopold; Bonenberg, Zdzislaw; Dybal, Daniel; Sasiadek, Stanislaw; and Zakrawacz, Stanislaw,3,459,417.
Zakrzewski, Henry V. Phonograph drive. 3,445,117, 5-20-69, Cl. 274-9.
Zalar, Stoyan M., to Westinghouse Electric Corporation. Thin film piezoelectric resonator. 3,486,046, 12-23-69, Cl. 340-8.
Zalay, Andrew W.: *See—*
Kirchner, Frederick K.; and Zalay, Andrew W.,3,429,911.
Kirchner, Frederick K.; and Zalay, Andrew W.,3,463,787.
Zaldastani, Othar; and Jolliffe, Michael J. A. H. Prestressed concrete beam. 3,465,484, 9-9-69, Cl. 52-127.
Zale, Thad F., to Bally Manufacturing Corporation. Ball gate. 3,452,988, 7-1-69, Cl. 273-127.
Zaleski, John F., to Mallory, P. R., & Co., Inc. Reserve cell. 3,484,297, 12-16-69, Cl. 136-114.
Zalewiski, Edmund J.: *See—*
Jordan, Manuel A.; Meyer, John F.; and Zalewiski, Edmund J.,3,480,589.
Zalewski, Edmund J.: *See—*
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J.,3,425,866.
Meyer, John F.; Sheffer, Howard E.; and Zalewski, Edmund J.,3,426,098.
Zalkind, Albert M. Paper cap exploding novelty toy. 3,421,256, 1-14-69, Cl. 46-176.
Zall, David M., to United States of America, Navy. Spot test to differentiate between alloys 90-10 copper nickel and 70-30 copper nickel. 3,436,185, 4-1-69, Cl. 23-230.
Zall, David M., to United States of America, Navy. Spot test to differentiate between alloys 90-10 copper nickel and 70-30 copper nickel. 3,436,189, 4-1-69, Cl. 23-230.
Zalm, Pieter: *See—*
van Stratum, Antonius Johannes Alberta; Zalm, Pieter; Verest, Franciscus Johannes; and Henkes, Hans,3,458,749.
Zalman, Solomon. Pollutant treating and eliminating device. 3,462,919, 8-26-69, Cl. 55-256.
Zaloudek, James J., to Martin-Marietta Corporation. Pressure operated vortex controlled fluid analog amplifier. 3,452,772, 7-1-69, Cl. 137-81.5
Zaltron, Mario. Flexible nonextensible metal straps. 3,469,951, 9-30-69, Cl. 29-183.
Zamaraev, Boris Stepanovich: *See—*
Solodukho, Yakov Judelevich; and Zamaraev, Boris Stepanovich,3,436,664.
Zambas, Peter G.: *See—*
Haworth, Gordon R.; and Zambas, Peter G.,3,466,094.
Zambon S.p.A.: *See—*
Portelli, Mario, 3,427,306.
Zamboni, Valentino: *See—*
Natta, Giulio; Pregaglia, Gianfranco; Mazzanti, Giorgio; Binaghi, Marco; Pozzi, Giancarlo; Oddo, Nino; and Zamboni, Valentino,3,422,069.
Zambrano, Ronald Theodore, to American Cyanamid Company. Reductive alkylation process. 3,483,251, 12-9-69, Cl. 260-559.
Zambrow, John L.: *See—*
Dockus, Kostas F.; and Zambrow, John L.,3,482,305.
Zameitat, Wolfgang; and Morse, Roy E., to Lipton, Thomas J., Inc. Instant tea from fresh green leaf. 3,438,785, 4-15-69, Cl. 99-77.
Zames, Ira, to American Can Company. Ski slope or the like with layer of tree bark. 3,427,934, 2-18-69, Cl. 94-3.
Zaminer, Christian: *See—*
Seiter, Hartmut; and Zaminer, Christian,3,424,955.
Zampichelli, Vincenzo, to Torrington Company, The. Container for relatively long, narrow objects. 3,441,165, 4-29-69, Cl. 220-41.
Zamzow, Charles A., Mrs.: *See—*
Woodside, Roy; and Zamzow, Charles A.,3,472,644.
Woodside, Roy; and Zamzow, Charles A.,3,472,644.
Zanal Corporation of Alberta Limited: *See—*
Zandmer, Solis Myron, 3,425,491.
Zanchi, Admar Orlando, to Forjas Taurus S.A. Industria e Comercio. Automatic hammer safety for revolvers. 3,482,348, 12-9-69, Cl. 42-66.
Zanck, Gerald: *See—*
Warren, Steven A.; and Zanck, Gerald,3,451,581.
Z and D Industries, Inc.: *See—*
Wilde, Leon G.; Szczur, Albert; and Stephens, William J., 3,451,438.
Zandell, Fred S.: *See—*
Drechsler, Leon D.; and Zandell, Fred S.,3,429,403.
Zander, Heinz-Jurgen; and Stohr, Gerhard, to Gesellschaft fur Elektrotechnik m.b.H. Apparatus for impregnating of one- and multiphase. 3,456,615, 7-22-69, Cl. 118-5.
Zandman, Felix; and Post, Daniel, to Vishay Intertechnology, Inc. Process and element for strain measurement. 3,445,168, 5-20-69, Cl. 356-32.
Zandmer, Solis Myron, to Zanal Corporation of Alberta Limited. Filter means for duct forming devices. 3,425,491, 2-4-69, Cl. 166-205.
Zandmer, Solis Myron. Well completion apparatus. 3,434,537, 3-25-69, Cl. 166-100.
Zandstra, Bertus H.: *See—*
van der Schee, Bernard L. A.; and Zandstra, Bertus H.,3,486,864.
Zane, John K.: *See—*
Kaiser, Donald W.; and Zane, John K.,3,434,982.
Kaiser, Donald W.; and Zane, John K.,3,438,986.
Zane, Ronald, to United States of America, Atomic Energy Commission. Circuitry for obtaining precisely controllable motion in a moving coil actuator. 3,486,094, 12-23-69, Cl. 318-128.
Zane, Victor H., to Design and Manufacturing Corporation. Overflow protection device. 3,464,437, 9-2-69, Cl. 137-387.
Zanella, Dominic A., to American Aniline Products, Inc. Preparation of bromaminic acid. 3,428,659, 2-18-69, Cl. 260-371.
Zanella, Dominic A., to American Aniline Products, Inc. Process for the preparation and purification of P-nitrobenzenes. 3,480,681, 11-25-69, Cl. 260-646.
Zanella, Robert C. Snowplow. 3,477,151, 11-11-69, Cl. 37-42.
Zange, Earl A.; and Szasz, Peter R., to Kulicke and Soffa Industries, Inc. Semiconductor wafer pickup and bonding tool. 3,458,102, 7-29-69, Cl. 228-3.
Zanger, Earl A., Jr.; and Kulicke, Frederick W., Jr., to Kulicke & Soffa Industries, Inc. Automatic dice dispenser for semiconductor bonding. 3,479,716, 11-25-69, Cl. 29-203.
Zanger, Murray: *See—*
Antonelli, Joseph A.; and Zanger, Murray,3,446,761.
Zanger, Murray. Fluorine-containing polymer. 3,459,722, 8-5-69, Cl. 260-89.5
Zangl, Karl. Device for inserting an inflation bag into a tire that is to be vulcanized. 3,465,385, 9-9-69, Cl. 18-17.
Zangs, Alexander: *See—*
Koslowski, Hans Gunter; Schmetz, Walter; and Zangs, Alexander,3,471,082.
Zanini, Luigi. Device for the production of a continuous envelope for rods, bars, pipes and the like. 3,432,885, 3-18-69, Cl. 18-13.
Zanis, Jakov Benediktovich: *See—*
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Jakov Benediktovich,3,447,332.
Zankl, Erich: *See—*
Hennig, Hans Joachim; Windemuth, Erwin; and Zankl, Erich,3,437,500.
Zankl, Frank; Stobbe, Richard E.; and Mattson, Clyde E., to Kearney & Trecker Corporation. Mechanism for effecting angular orientation of a machine tool spindle. 3,422,724, 1-21-69, Cl. 90-11.
Zanoni, Louis A.: *See—*
Heilmeier, George H.; and Zanoni, Louis A.,3,449,824.
Zanowick, Richard L.; Coker, Jesse E.; and Morritz, Fred L., to North American Rockwell Corporation. Multilayer semiconductor heteroepitaxial structure. 3,433,684, 3-18-69, Cl. 148-33.4
Zanussi, Lino, to Industrie A. Zanussi S.p.A. Device for driving a rotary basket, particularly for dishwashers. 3,460,550, 8-12-69, Cl. 134-112.
Zanussi, Lino, to Industrie A. Zanussi S.p.A. Method of washing. 3,467,489, 9-16-69, Cl. 8-137.
Zanussi, Lino, to Industries A. Zanussi S.p.A. Hydraulically actuated, delayed-opening, door- locking mechanism preferably applicable to household dishwashing and clothes washing machines. 3,486,782, 12-30-69, Cl. 292-177.
Zapf, Gerhard, to Sintermetallwerk Krebsoge G.m.b.H. Methods and apparatus for removing burrs from sintered work pieces. 3,455,138, 7-15-69, Cl. 72-405.

Zappia, Anthony T.; and Bough, Maynard O., Jr. Hollow glassware forming machine. 3,434,820, 3-25-69, Cl. 65-223.
Zar, Jacob L., to Avco Corporation. Superconducting magnet having dual conductors forming the turns thereof. 3,458,842, 7-29-69, Cl. 335-216.
Zaratkiewicz, Edwin A.: *See—*
O'Connell, James A.; Zaratkiewicz, Edwin A.; and Curnan, Hugh J.,3,481,306.
Zaremski, Donald R., to Allegheny Ludlum Steel Corporation. Method of producing trim members. 3,484,350, 12-16-69, Cl. 204-148.
Zarfoss, James R.: *See—*
Quintilian, Bartholomew F.; and Zarfoss, James R.,3,483,670.
Zarins, Egils: *See—*
Sipress, Jack M.; and Zarins, Egils,3,439,330.
Zarker, Keith E.: *See—*
Freitas, Ernest R.; Dunn, Clarence L.; and Zarker, Keith E.,3,463,603.
Zarling, Harvey R. Drafting protractor. 3,426,434, 2-11-69, Cl. 33-93.
Zaromb, Solomon. Extraction and desalination apparatus. 3,482,701, 12-9-69, Cl. 210-335.
Zaromb, Solomon. Electrochemical cell with tin oxide electrode. 3,483,111, 12-9-69, Cl. 204-195.
Zarouni, Alfred: *See—*
Abert, Charles; Runyon, John P.; and Zarouni, Alfred,3,471,647.
Zartarian, Robert: *See—*
Zartarian, Robert, 3,445,150.
Zartarian, Robert, to Zartarian, Robert, and Basmajian, Diran C. Dish cart. 3,445,150, 5-20-69, Cl. 312-250.
Zaruba, Wenzel, to Textol Systems, Inc. Variable pitch linear actuator. 3,473,393, 10-21-69, Cl. 74-25.
Zaschke, Jurgen: *See—*
Orlich, Helmut; Kales, Josef; Grotewohl, Albert; and Zaschke, Jurgen,3,482,466.
Zaske, Arthur P., to Holley Carburetor Company. Carburetor test equipment. 3,434,341, 3-25-69, Cl. 73-118.
Zaske, Arthur P., to Holley Carburetor Company. Fluid flow test equipment. 3,456,500, 7-22-69, Cl. 73-118.
Zaske, Robert E.: *See—*
Longuski, Robert N.; and Zaske, Robert E.,3,433,491.
Zaslowsky, Joel A.: *See—*
Polak, Roger J.; and Zaslowsky, Joel A.,3,457,282.
Wojtowicz, John A.; and Zaslowsky, Joel A.,3,463,789.
Zastrow, John A.: *See—*
Deinken, Herman P.; Hill, Jack; Bell, Donald L.; and Zastrow, John A.,3,485,360.
Zathureczky, Arpad; and Egyedi, Andras, to Licencia Talalmanyokat Ertekesito Vallalat. Water-film cooling-tower with transverse airflow. 3,467,364, 9-16-69, Cl. 261-24.
Zauderer, Bert, to United States of America, Air Force. Mercury vapor for magnetohydrodynamic generators. 3,430,081, 2-25-69, Cl. 310-11.
Zauderer, Jerome: *See—*
Bosworth, Seymour; and Zauderer, Jerome,3,421,083.
Zaumseil, Dean R.: *See—*
Kordik, Kenneth S.; Spannhake, Ernst W.; and Zaumseil, Dean R.,3,435,315.
Zaunere, Roger L.: *See—*
Ewing, John I.; and Zaunere, Roger L.,3,472,196.
Zaupa, Attilio. Hairpiece. 3,476,122, 11-4-69, Cl. 132-53.
Zaushitsyn, Vladimir Evgenievich: *See—*
Vinogradov, Anatoly Sergeevich; Zaushitsyn, Vladimir Evgenievich; Tkach, Vasily Denisovich; Omelchenko, Alexandr Alexandrovich; Pogrebitsky, Ruvim Davydovich; Minovsky, Vladimir Falkovich; Kiselev, Nikolai Petrovich; Ivanov, Ivan Vasilievich; Malomuzh, Vladimir Grigorievich; and Khrapach, Evgeny Ivanovich,3,472,298.
Zausznica, Adam, to Alfredeen, A.; AB Ingenjorsfirma. Transmitting element for gauging instruments. 3,472,061, 10-14-69, Cl. 73-37.5
Zavadsky, Karel: *See—*
Kubovy, Miloslav; Jirasek, Erik; Stary, Josef; and Zavadsky, Karel,3,481,130.
Zavalischin, Nikolai Ivanovich: *See—*
Gelfand, Ilya Markovich; Zavalischin, Nikolai Ivanovich; and Kulachenkov, Gennady Petrovic,3,447,364.
Zavasnik, Fred J., to Phillips Petroleum Company. Process for producing low-density pellets from slurries containing film-forming materials. 3,432,579, 3-11-69, Cl. 264-14.
Zavazal, Zdenek: *See—*
Bezouska, Vlastimil; Skvor, Josef; Pajisek, Frantisek; Zavazal, Zdenek; and Polorny, Oldrich,3,435,304.
Zavitz, Arnold L., to General Dynamics Corporation. Electroplating apparatus. 3,432,423, 3-11-69, Cl. 204-297.
Zavitz, Walter E.: *See—*
Carlson, Frank A., Jr.; and Zavitz, Walter E.,3,466,356.
Zavod Elektroizmeritelnykh Priborov: *See—*
Umantsev, Victor Sergeevich, 3,434,206.
Zavod, Pierce H., to United States of America, Navy. Automatic speed controller for propeller shafts. 3,454,752, 7-8-69, Cl. 235-193.
Zavod, Pierce H.; and Ulrich, John L., to United States of America, Navy. Automatic control system for decompression chamber. 3,478,769, 11-18-69, Cl. 137-118.
Zavod Stroitelno-Oldelochnykh Mashin: *See—*
Kamenyarzh, Alexandr Yakovlevich; and Ryvkin, Vladimir Lvovich, 3,459,621.
Zavodny, Alfred T., to Continental Oil Company. Vibration sensing method and apparatus using coherent radiation. 3,449,944, 6-17-69, Cl. 73-71.3
Zavody Jana Svermy, narodni podnik: *See—*
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav, 3,447,525.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav, 3,447,526.
Cermak, Jiri; Vystrcil, Karel; and Novotny, Bohuslav, 3,447,527.
Zavody Kana Svermy, narodni podnik: *See—*
Koucky, Josef; and Koucky, Frantisek, 3,431,819.
Zavody textilniho strojirenstvi Generalni reditelstvi: *See—*
Uhlir, Pavel, 3,427,830.
Zavody umelecke kororyroby narodni podnik: *See—*
Mittig, Milan; and Svoboda, Jiri, 3,474,485.
Zavyalov, Valery Ivanovich: *See—*
Nametkin, Nikolai Sergeevich; Vdovin, Valentin Mikhailovich; and Zavyalov, Valery Ivanovich,3,422,039.
Zawacki, Arnold J.; and Jacobson, Eric W., to Colonial Broach & Machine Company. Helically nicked broach. 3,439,398, 4-22-69, Cl. 29-95.1
Zawadzki, Thomas; Reventas, Algirdas A.; and Lee, Richard M., deceased0 (by Lee, Mary G.; and0Hoyle, Tonnie A., co-executors), to Borden Company, The. Compositions containing a thermoplastic resin and a tetraester of pentaerythritol. 3,423,347, 1-21-69, Cl. 260-28.5
Zaweski, Edward F.; and Filbey, Allen H., to Ethyl Corporation. Hindered phenol stabilized maleic anhydride and its use in making alkenyl succinic anhydrides. 3,476,774, 11-4-69, Cl. 260-346.8
Zaweski Edward F.: *See—*
Wollensak, John C.; and Zaweski Edward F.,3,462,368.
Zaybekian, Philip: *See—*
Frankenfeld, John W.; Cahn, Robert P.; and Zaybekian, Philip,3,427,223.
Zazofsky, George A. Metronome. 3,467,959, 9-16-69, Cl. 340-384.
Zbikowski, Theodore H.: *See—*
Pauly, Ronald R.; and Zbikowski, Theodore H.,3,462,874.
Zbinden, Walter: *See—*
Schultze, Hans-Joachim; Zbinden, Walter; and Berther, Clau,3,470,153.
Zdanuk, Edward J., to Mallory, P. R., & Co., Inc. Composite metal joint and a copper-silver, titanium brazing alloy. 3,455,663, 7-15-69, Cl. 29-198.
Zdanuk, Edward J.; and Krock, Richard H., to Mallory, P. R., & Co., Inc. Tungsten-indium powder bodies infiltrated with copper. 3,423,203, 1-21-69, Cl. 75-208.
Zdanuk, Edward J.; and Krock, Richard H., to Mallory, P. R., & Co., Inc. Method of producing tungsten powder bodies infiltrated with copper-titanium alloys. 3,440,043, 4-22-69, Cl. 75-208.
Zdanuk, Edward J.; and Krock, Richard H., to Mallory, P. R., & Co., Inc. Method of producing tungsten powder bodies infiltrated with zirconium. 3,449,120, 6-10-69, Cl. 75-208.
Zdanuk, Edward Joseph; and Krock, Richard Howard, to Mallory, P. R., & Co., Inc. Tungsten powder bodies impregnated with Zr and Bi or Sn. 3,467,517, 9-16-69, Cl. 75-208.
Zderic, John A., to Syntex Corporation. 16α,17α - ethylene and substituted ethylene preghane derivatives and process. 3,431,256, 3-4-69, Cl. 260-397.3
Zderic, John A., to Syntex Corporation. 16α, 17α-Ethylene and substituted ethylene pregnane derivatives and process. 3,435,057, 3-25-69, Cl. 260-397.45
Zderic, John A., to Syntex Corporation. 6,7-Ethylene and 6,7-substituted ethylene derivatives of the androstane series. 3,470,157, 9-30-69, Cl. 260-239.55
Zderic, John A., to Syntex Corporation. 6,7-Ethylene and 6,7-substituted ethylene derivatives of the pregnane series. 3,470,158, 9-30-69, Cl. 260-239.55
Zderic, John A., to Syntex Corporation. 6,7-Ethylene and 6,7-substituted ethylene derivatives of the pregnane series. 3,485,828, 12-23-69, Cl. 260-239.55
Zebarth, Ralph, Inc.: *See—*
Zebarth, Ralph S.; and Frederick, Henry E., 3,422,490.
Zebarth, Ralph S.; and Carlson, Drexel T., to Johnson, Gordon, Company, mesne. Poultry offal separation process. 3,475,178, 10-28-69, Cl. 99-7.
Zebarth, Ralph S.; and Frederick, Henry E., to Zebarth, Ralph, Inc. Method and apparatus for defeathering poultry. 3,422,490, 1-21-69, Cl. 17-45.
Zebarth, Ralph S.; and Frederick, Henry E., to Johnson, Gordon, Company, mesne. Poultry defeathering apparatus. 3,471,893, 10-14-69, Cl. 17-11.1

Zebarth, Ralph S.; and Frederick, Henry E., to Johnson, Gordon, Company, mesne. Poultry defeathering apparatus. 3,477,093, 11-11-69, Cl. 17-11.1

Zebe, Charles W.: *See—*
Clement, George F.; Compton, Harry B.; Stagg, Uberto K., Jr.; and Zebe, Charles W.,3,441,681.

Zebe, Charles W., to Bell Telephone Laboratories, Incorporated. Telephone line concentrator signaling system. 3,441,680, 4-29-69, Cl. 179-18.

Zebe, Charles W., to Bell Telephone Laboratories, Incorporated. Range extension equipment in step-by-step telephone systems. 3,453,392, 7-1-69, Cl. 179-16.

Zebe, Charles W., to Bell Telephone Laboratories, Incorporated. Step-by-step telephone system with range extension. 3,465,104, 9-2-69, Cl. 179-16.

Zeblisky, Rudolph J.; Schneble, Frederick W., Jr.; and McCormack, John F., to Photocircuits Corporation. Electroless copper plating. 3,485,643, 12-23-69, Cl. 106-1.

Zeblisky, Rudolph J.: *See—*
Schneble, Frederick W., Jr.; McCormack, John; and Zeblisky, Rudolph J.,3,468,676.

Zec, Zvonimir Juan, to Beckman Instruments, Inc. Antiserum applicator used in immunoelectrophoresis. 3,428,547, 2-18-69, Cl. 204-299.

Zec, Zvonimir Juan, to Beckman Instruments, Inc. Immunoelectrophoresis antiserum strips. 3,432,424, 3-11-69, Cl. 204-299.

Zech, John D.: *See—*
Ford, Ernest C., Jr.; and Zech, John D.,3,458,477.

Zech-Murray Corporation: *See—*
Murray, Ernest E., 3,427,643.

Zecher, Wilfried: *See—*
Merten, Rudolf; and Zecher, Wilfried,3,448,170.

Zechin, Thomas A., to General Motors Corporation. Electrical system. 3,469,073, 9-23-69, Cl. 219-279.

Zechlin, Richard, to Fairbanks Morse, Inc. Static exciter regulator for generators. 3,435,326, 3-25-69, Cl. 322-25.

Zechlin, Richard: *See—*
Henderson, Robert M.; and Zechlin, Richard,3,448,294.
Henderson, Robert M.; and Zechlin, Richard,3,487,365.

Zechnall, Richard; Issler, Jorg; Sohner, Gerhard; and Worz, Paul, to Bosch, Robert, G.m.b.H. Light-operated control apparatus for a combustion engine. 3,463,134, 8-26-69, Cl. 123-146.5

Zedalis, Robert John, to Du Pont de Nemours, E. I., and Company. Electric explosive ignition assembly. 3,450,045, 6-17-69, Cl. 102-28.

Zeddco Co., Inc.: *See—*
Fischer, Harry F., Jr., 3,462,989.

Zednik, Louis, Jr.: *See—*
Jordan, Howard J.; and Zednik, Louis, Jr.,3,475,221.

Zee-Cheng, Kwang Yuen: *See—*
Witt, Enrique Roberto; Carpenter, Sammy; and Zee-Cheng, Kwang Yuen,3,450,726.

Zeek, Richard M.: *See—*
Guernsey, Robert W.; Ricketts, James M.; and Zeek, Richard M.,3,476,174.

Zeeman Manufacturing Company: *See—*
Krnac, Joseph; and McNeal, James, 3,483,835.

Zeff, Jack D., to Arde, Inc. Method of purifying waste water by catalytic oxidation. 3,487,016, 12-30-69, Cl. 210-18.

Zegel, Wiliam C.: *See—*
Eck, John C.; and Zegel, Wiliam C.,3,453,207.

Zegel, William C.: *See—*
Eck, John C.; and Zegel, William C.,3,420,772.
Eck, John C.; and Zegel, William C.,3,470,677.
Eck, John C.; and Zegel, William C.,3,485,752.
Eck, John Clifford; and Zegel, William C.,3,456,796.

Zegers, Leo Eduard; and Kuilman, Jan, to North American Philips Company, Inc. Transmission systems for the transmission of pulses. 3,421,146, 1-7-69, Cl. 340-167.

Zeh, Herbert J., Jr.; and Bischof, Alan E., to Calgon Corporation, mesne. Friction loss reducing. 3,451,480, 6-24-69, Cl. 166-308.

Zehnder, Alfred Ernst: *See—*
Burkhardt, Max Eduard; and Zehnder, Alfred Ernst,3,468,362.

Zehnder, Alfred, to Interstop AG. Apparatus for casting metal from a container with a sliding nozzle. 3,484,026, 12-16-69, Cl. 222-544.

Zehner, David W., to Westinghouse Electric Corporation. Magnetically encoded device. 3,452,358, 6-24-69, Cl. 346-74.

Zehnle, Pierre A. Girder/concrete combination. 3,440,793, 4-29-69, Cl. 52-723.

Zehr, Joachim O.: *See—*
Hemprich, Horst J.; Schneider, Walter F.; Spiro, Hans W.; and Zehr, Joachim O.,3,479,583.

Zeidler, Adolf: *See—*
Scheuerer, Guenter; Zeidler, Adolf; Dickhaeuser, Heiner; and Adolphi, Heinrich,3,423,487.

Zeidler, Reinhold C., to Borg-Warner Corporation. Lubricated clutch assembly. 3,422,943, 1-21-69, Cl. 192-113.

Zeidman, Gordon G.: *See—*
Hull, Henry E.; Trumbull, Harold E.; and Zeidman, Gordon G.,3,432,639.

Zeigler, James K., to Jay, Frederic C. Woodworking tool and workholder. 3,438,412, 4-15-69, Cl. 144-136.

Zeigler, Ralph W.: *See—*
Buresh, Tom K.; and Zeigler, Ralph W.,3,456,674.

Zeile, Karl: *See—*
Heusner, Alex; and Zeile, Karl,3,448,109.
Heusner, Alex; Zeile, Karl; and Danneberg, Peter,3,462,434.
Koppe, Herbert; Ludwig, Gerhard; and Zeile, Karl,3,478,050.

Zeile, Karl; Banholzer, Rolf; Walther, Gerhard; Schulz, Werner; and Wick, Helmut, to Boehringer Ingelheim G.m.b.H. N-substitution products of norscopolamine and quaternary salts thereof. 3,472,861, 10-14-69, Cl. 260-292.

Zeile, Karl; Hauptmann, Karl Heinz; and Stahle, Helmut, to Boehringer Ingelheim G.m.b.H. 2-(Phenyl-amino)-1,3-diazacyclopentene-(2) substitution products for reducing blood pressure. 3,454,701, 7-8-69, Cl. 424-273.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,462,427.
Merz, Herbert; Schroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,466,277.
Merz, Herbert; Shroeder, Hans-Detlef; Langbein, Adolf; and Zeile, Karl,3,438,990.
Stahle, Helmut; and Zeile, Karl,3,468,887.
Stahle, Helmut; Koppe, Herbert; Zeile, Karl; Wolf, Martin; and Hoefke, Wolfgang,3,462,433.
Stahle, Helmut; Kummer, Werner; Koppe, Herbert; Zeile, Karl; Hoefke, Wolfgang; and Samtleben, Hans-Wolfgang,3,480,630.
Thoma, Otto; and Zeile, Karl,3,422,196.
Thoma, Otto; Koppe, Herbert; Mentrup, Anton; Zeile, Karl; and Ludwig, Gerhard,3,475,455.

Zeilicof, Frederica: *See—*
Solomon, Frank; Zeilicof, Frederica; Thompson, Lee V.; and Blumenstein, Carl R.,3,481,773.

Zeilinger, Karl: *See—*
Bensinger, Wolf-Dieter; Derndinger, Hans-Otto; Zeilinger, Karl; Bader, Hans; and Kempin, Karl,3,481,312.

Zeille, Karl: *See—*
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeille, Karl,3,459,782.

Zeindler, Reinhard: *See—*
Mey, Hansjuerg; Wirth, Robert; and Zeindler, Reinhard,3,482,916.

Zeiringer, Rudolf, to List, Hans. Piezoelectric pressure transducer. 3,461,327, 8-12-69, Cl. 310-8.9

Zeiringer, Rudolf: *See—*
List, Hans; Zeiringer, Rudolf; and Hatschek, Rudolf,3,424,930.

Zeis, Donald C. Sterostatic guide for use in the creation of destructive brain lesions. 3,460,537, 8-12-69, Cl. 128-303.

Zeisberg, Millard David, to Du Pont de Nemours, E. I., and Company. Product and process. 3,474,616, 10-28-69, Cl. 57-164.

Zeise, Clarence L., Jr.: *See—*
Kepple, Charles; Martello, Norman E.; and Zeise, Clarence L., Jr.,3,473,993.

Zeiser, Walter; Loffley, Hans; and Kolb, Otmar, to International Standard Electric Corporation. Carrier frequency stabilization for carrier frequency systems with suppressed carrier waves. 3,450,841, 6-17-69, Cl. 179-15.

Zeisler, Frederic L.: *See—*
Gasiorek, Leonard S.; and Zeisler, Frederic L.,3,487,282.

Zeisler, Frederic L., to Ford Motor Company. Auto lamp failure warning circuit. 3,457,561, 7-22-69, Cl. 340-251.

Zeiss, Carl: *See—*
Gunther, Norbert; Schreiber, Otto; Rubl, Wilhelm; and Griebisch, Otto, 3,436,150.
Heynacher, Erich; and Wiedmann, Erwin, 3,438,713.
Neumann, Joachim, 3,485,090.
Rantsch, Kurt; and Trotscher, Otto, 3,441,350.
Rantsch, Kurt, 3,453,041.
Trotscher, Otto, 3,465,331.
Werner, Walter, 3,486,806.
Weyrauch, Adolf, 3,427,463.

Zeiss, Carl-Stiftung: *See—*
Mondon, Herbert, 3,450,475.

Zeiss Ikon Aktiengesellschaft: *See—*
Becker, Dietrich, 3,482,909.
Dietrich, Rolf; Ulffers, Dirk; and Warstat, Hans, 3,445,170.
Ebertz, Helmut, 3,429,246.
Krumbein, Fritz; Becker, Dietrich; and Schottle, Ulrich, 3,442,584.
Krumbein, Fritz, 3,447,868.
Krumbein, Fritz; and Rauscher, Willy, 3,456,892.
Krumbein, Fritz, 3,460,730.
Kuppenbender, Heinz; and Hochstein, Roland, 3,441,344.
Ruhle, Hans; and Ebertz, Helmut, 3,433,141.
Ruhle, Hans; Schottle, Ulrich; Thiele, Heinz; Schwahn, Josef; and Ritze, Arno, 3,452,656.
Sauer, Edgar; and Borner, Gerhard, 3,427,552.

Sauer, Edgar, 3,440,942.
Sauer, Edgar, 3,440,943.
Sauer, Edgar; Hahn, Johann; and Joos, Karl, 3,443,496.
Schwahn, Josef, 3,424,071.
Stuper, Josef; and Wieland, Markus, 3,425,327.
Taesler, Rudolf, 3,472,437.

Zeiss-Stiftung, Carl: *See—*
Berger, Johannes, 3,464,763.
Gunther, Norbert; Schreiber, Otto; Rubl, Wilhelm; and Griebisch, Otto, 3,436,150.
Neumann, Joachim, 3,485,090.
Rantsch, Kurt; and Trotscher, Otto, 3,441,350.
Rantsch, Kurt, 3,453,041.
Trotscher, Otto, 3,465,331.
Werner, Walter, 3,486,806.
Weyrauch, Adolf, 3,427,463.

Zeissig, Alexander: *See—*
Cuckler, Ashton C.; Egerton, John R.; and Zeissig, Alexander,3,484,519.

Zeissler, Edward J.: *See—*
Granata, Peter C., Jr.; Siegal, Burton L.; and Zeissler, Edward J.,3,472,978.

Zeiter, Wayne D. Hoist mechanism for silos and the like. 3,473,677, 10-21-69, Cl. 214-17.

Zeitler, Heidi: *See—*
Hoffmann, Hermann; and Zeitler, Heidi,3,478,010.

Zeitlin, Alexander: *See—*
Boggio, F. George; and Zeitlin, Alexander,3,479,856.

Zeitlin, Alexander, to Barogenics, Inc. Die changing apparatus. 3,456,481, 7-22-69, Cl. 72-446.

Zeitlin, Alexander; and Kramarow, Nathan M. Monitoring system for forging presses. 3,440,848, 4-29-69, Cl. 72-31.

Zeitrager, Gunther, to Teves, Alfred, G.m.b.H. Disk brake with mechanical actuator and adjusting means. 3,482,657, 12-9-69, Cl. 188-73.

Zeke, Julius, to Vyskumny Ustav Zvaracsky. Welding apparatus. 3,427,429, 2-11-69, Cl. 219-126.

Zektser, Alexandr, Tosifovich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.

Zelek, John A.: *See—*
Mudrak, Anton; and Zelek, John A.,3,487,067.

Zelensky, Eduard Semenovich: *See—*
Andreevskaya, Galya Dmitrievna; Bernatsky, Alexandr Dmitrievich; Gudelman, Abram Elkunovich; Volovich, Zelman Moiseevich; Zektser, Alexandr, Tosifovich; Zelensky, Eduard Semenovich; Kiselev, Kuzma Nikitich; Kozlov, Nikolai Fedorovich; Kulakovsky, Vladimir Alexandrovich; Polischuk, Semen Moiseevich; Sveshnikov, Vasily Petrovich; and Sheinblujm, Vladimir Mikhailovich,3,467,507.

Zelik, Hynek J., to Black and Decker Manufacturing Company, The. Attaching construction for a portable tool edge guide. 3,478,788, 11-18-69, Cl. 144-136.

Zelik, Hynek J.; and Cowman, George W., to Black and Decker Manufacturing Company, The. Electric motor brush holder assembly. 3,450,917, 6-17-69, Cl. 310-247.

Zelik, Hynek, to Black and Decker Manufacturing Company, The. Vertically adjustable portable hand tool with electric motor and housing assembly. 3,447,001, 5-27-69, Cl. 310-50.

Zelinski, Robert J.; and Irwin, Charles W., to Smith, A. O., Corporation. Air cooled motor. 3,458,739, 7-29-69, Cl. 310-62.

Zelinski, Robert P., to Phillips Petroleum Company. Modified block copolymers and production thereof. 3,449,306, 6-10-69, Cl. 260-83.7

Zell, Charles C., Jr., to North American Rockwell Corporation. Cutting device. 3,484,940, 12-23-69, Cl. 30-162.

Zellar, William A. Safety seat. 3,463,543, 8-26-69, Cl. 297-216.

Zelle, Edgar: *See—*
Hopp, Helmut; and Zelle, Edgar,3,440,594.

Zelle, Edgar, to Licentia Patent-Verwaltungs-G.m.b.H. Electric plug-in connector. 3,440,592, 4-22-69, Cl. 339-14.

Zeller, Burton S.: *See—*
Fisher, John F.; and Zeller, Burton S.,3,465,609.

Zeller Corporation: *See—*
Zeller, Robert C., 3,428,376.

Zeller, Jean. Detachable system for assembling two elements. 3,469,770, 9-30-69, Cl. 229-78.

Zeller, Martin C., to Boeing Company, The. Position reference apparatus. 3,455,272, 7-15-69, Cl. 116-124.

Zeller, Miles J.: *See—*
Bahl, Richard C.; and Zeller, Miles J.,3,451,251.

Zeller, Paul: *See—*
Gutmann, Hugo; Jaunin, Roland; Kaiser, Ado; and Zeller, Paul,3,459,799.
Jaunin, Roland; and Zeller, Paul,3,441,594.
Jaunin, Roland; and Zeller, Paul,3,441,595.

Zeller, Robert C., to Zeller Corporation. Spoke-type wheel. 3,428,376, 2-18-69, Cl. 308-190.

Zeller, Robert C.; and Weible, Warren W. Recessing fixture. 3,451,308, 6-24-69, Cl. 90-15.

Zeller, Robert C.; and Weible, Warren W. Metal forming. 3,453,850, 7-8-69, Cl. 72-71.

Zellers, James T., Jr., to Libbey-Owens-Ford Company. Method of feeding glass batch material. 3,436,200, 4-1-69, Cl. 65-17.

Zellers, James T., Jr., to Libbey-Owens-Ford Glass Company. Cut-off venting means for sheet glass process. 3,469,964, 9-30-69, Cl. 65-194.

Zelley, Walter G., to Aluminum Company of America. Process of making aluminum printing plates. 3,475,241, 10-28-69, Cl. 156-14.

Zellmer, Neale A.: *See—*
Hanna, David L.; and Zellmer, Neale A.,3,466,572.

Zellmer, Walter C.: *See—*
Kornovich, Daniel W.; and Zellmer, Walter C.,3,458,173.

Zellner, Floyd L., 50% to Reynolds, Glenn. Electronic surveying instrument. 3,469,919, 9-30-69, Cl. 356-4.

Zellsloffabrik Waldhof A.G.: *See—*
Sohn, August Wilhelm; and Erasumus, Albert, 3,480,478.

Zellstoffabrik Waldhof AG: *See—*
Witzel, Herbert; and Follmann, Hartmut, 3,467,648.

Zellweger AG Apparate- und Maschinenfabriken, Uster: *See—*
Schwemmer, Martin; Kunz, Werner; and Bors, Hans, 3,443,322.

Zellweger Ltd.: *See—*
Altenweger, Alois, 3,423,808.
Altenweger, Alois, 3,438,103.
Altenweger, Alois, 3,447,212.
Baumgartner, August, 3,432,897.
Felix, Ernst, 3,435,673.
Felix, Ernst, 3,461,299.
Felix, Ernst, 3,476,329.

Zelna, Robert P., to Fusion Incorporated. Applicator gun. 3,463,363, 8-26-69, Cl. 222-334.

Zelnick, Charles, to Cooper Industries, Inc., mesne. Plastic measuring tapes and methods of making such tapes. 3,439,428, 4-22-69, Cl. 33-137.

Zelnick, David R., to Koehler-Dayton, Inc. Plastic packaging. 3,425,611, 2-4-69, Cl. 226-162.

Zelnick, David R., to Koehler-Dayton, Inc. Thermoplastic sealing apparatus and method. 3,449,183, 6-10-69, Cl. 156-69.

Zelnick, Seymour; and Monaghan, Alfred C., to Weldotron Corporation. Method and apparatus for sealing film-wrapped packages. 3,429,100, 2-25-69, Cl. 53-182.

Zelta Research: *See—*
Tarczy-Hornoch, Zoltan, 3,437,940.

Zeltex, Inc.: *See—*
Collings, Jerry M., 3,458,799.

Zeltmann, Walter F. Variable density protective eyeshade. 3,475,765, 11-4-69, Cl. 2-8.

Zeman, James R.; and Zeman, William E., to Zeman Manufacturing Company. Hanger bar construction. 3,458,051, 7-29-69, Cl. 211-124.

Zeman Manufacturing Company: *See—*
Zeman, James R.; and Zeman, William E., 3,458,051.

Zeman, William E.: *See—*
Zeman, James R.; and Zeman, William E.,3,458,051.

Zemanek, Joseph, Jr.: *See—*
Caldwell, Richard L.; and Zemanek, Joseph, Jr.,3,425,507.

Zemanek, Joseph, Jr., to Mobil Oil Corporation. Acoustic well logging tool. 3,434,563, 3-25-69, Cl. 181-0.5

Zemanek, Joseph, Jr., to Mobil Oil Corporation. Downhole system for storing and reading out detector signals for transmission to the surface at relatively low frequency. 3,435,224, 3-25-69, Cl. 250-83.6

Zemanek, Joseph, Jr., to Socony Mobil Oil Company, Inc., mesne. Transmission circuits for well logging systems. 3,456,754, 7-22-69, Cl. 181-0.5

Zemanek, Joseph, Jr., to Mobil Oil Corporation. Orientation sensing system for well logging tool for use in deviated boreholes. 3,478,839, 11-18-69, Cl. 181-0.5

Zemanek, Joseph, Jr.; and Caldwell, Richard L., to Mobil Oil Corporation. Ultrasonic system for inspecting submerged piles. 3,426,585, 2-11-69, Cl. 73-67.7

Zemanek, Rudolf; Fellegi, Jan; and Janci, Jan. Method and apparatus for separating fibrous suspensions. 3,425,545, 2-4-69, Cl. 209-2.

Zemberry, William L.: *See—*
Henry, Edwin B., Jr.; Schindler, Donald G.; and Zemberry, William L.,3,430,485.

Zemberry, William L., to United States Steel Corporation. Contact sensing system for machine tool. 3,476,013, 11-4-69, Cl. 90-12.

Zemberry, William L., to United States Steel Corporation. Depth-measuring gauge. 3,479,743, 11-25-69, Cl. 33-169.

Zemek, Albert W., to Universal Instruments Corporation. Component sequencing and taping machine. 3,421,284, 1-14-69, Cl. 53-59.

Zemgals, Guido Z.: *See—*
Presnell, Carlton E.; and Zemgals, Guido Z.,3,478,444.
Zemlin, John C., to Liver Technology Inc. Polyurethane compositions and process. 3,474,075, 10-21-69, Cl. 260-75.
Zemlin, John C.; and Herrington, Katherine A., to Collaborative Research, Incorporated. Waving and straightening human hair with 1,4- dimercapto-2,3-butane diol and substituted products thereof. 3,459,198, 8-5-69, Cl. 132-7.
Zemme, Caesar J.: *See—*
De Fazio, Benjamin S.; Silvia, John, Jr.; and Zemme, Caesar J.,3,449,764.
Zempel, Gary R., to Pillsbury Company, The. Pastry table product separating conveyor. 3,427,910, 2-18-69, Cl. 83-107.
Zenczak, Piotr, to Evans Products Company. Method of making a coated battery separator. 3,450,571, 6-17-69, Cl. 136-148.
Zenftman, Henryk; and Calder, Donald, to United States of America, Navy, mesne. Difluoraminated dialdehyde cellulose and nitric acid esters thereof. 3,426,013, 2-4-69, Cl. 260-222.
Zenger, Richard D., to National Can Corporation. Container having integral tear- strip opening means. 3,445,029, 5-20-69, Cl. 220-54.
Zenger, Richard D.: *See—*
Lipske, Benjamin B.; Considine, Frank W.; and Zenger, Richard D.,3,425,589.
Zenhausern, Anton: *See—*
Schwander, Hans Rudolf; Zenhausern, Anton; and Hindermann, Peter,3,431,285.
Zenick, Raymond G., to American Hospital Supply Corporation, mesne. Method of making a hypodermic needle. 3,470,604, 10-7-69, Cl. 29-447.
Zenith Carburetter Company, Limited, The: *See—*
Caisley, Charles F.; and Finos, Luigino Marlo, 3,424,441.
Lawrence, Geoffrey L., 3,444,848.
Lawrence, Geoffrey Lloyd, 3,456,929.
O'Neill, Cormac Garrett, 3,460,814.
Zenith Radio Corporation: *See—*
Adler, Robert, 3,431,504.
Adler, Robert; and De Vries, Adrian J., 3,446,975.
Adler, Robert, 3,452,286.
Adler, Robert, 3,462,714.
Adler, Robert, 3,485,552.
Baker, Roy F., 3,459,887.
Crumly, Charles B., 3,445,748.
De Cherrie, Theodore H., 3,471,116.
de Weger, Dirk, 3,453,380.
Dias, Fleming; Eilers, Carl G.; and Rypkema, Jouke N., 3,466,386.
Dias, Fleming, 3,466,399.
Dias, Fleming, 3,466,400.
Dias, Fleming, 3,479,463.
Dreiske, Erwin J.; and Saudinattis, Emanuel, 3,434,005.
Druz, Walter S., 3,442,269.
Eltgroth, Matthew J., 3,462,640.
Foster, Leigh Curtis, 3,430,094.
Foster, Leigh Curtis; and Lindley, John P., 3,467,509.
Fyler, George W., 3,470,311.
Fyler, George W.; and Kot, Frank D., 3,475,550.
Hendrickson, Melvin C., 3,466,385.
Hofmann, Judson A., 3,453,386.
Knowles, Terence J., 3,454,892.
Korpel, Adrianus, 3,424,906.
Krug, Robert W., 3,435,131.
Lange, Howard G., 3,475,169.
Lowery, Charles A., Jr.; and Videka, Mark J., 3,465,401.
Melkeraaen, Torleiv O.; and Capek, Raymond G., 3,458,930.
Rennick, John L., 3,470,312.
Rypkema, Jouke N., 3,484,723.
Salisbury, Winfield W., 3,437,862.
Sanders, Marshall E., 3,431,454.
Sarlund, Pentti V., 3,475,547.
Schott, Wayne M., 3,460,071.
Schwartz, Otto H., 3,438,273.
Seiwatz, Ruth F., 3,446,974.
Sobel, Ilyitch J.; and Didyk, Witalij, 3,439,128.
Strachanow, Grigory, 3,426,244.
Strachanow, Grigory, 3,432,719.
Tompson, Clement R., 3,437,936.
Tompson, Clement R., 3,462,668.
Wade, Glen, 3,449,678.
Walker, Emil C., 3,480,726.
Yello, Joseph F., 3,435,455.
Zenitz, Bernard L., to Sterling Drug Inc. Process for weight reduction. 3,432,603, 3-11-69, Cl. 424-325.
Zenitz, Bernard L.; and Behn, Donald Craig, to Sterling Drug Inc.N-[(1-Piperidyl)-lower-alkyl]-N-[(3-,2-,and 1- indolyl)-lower-alkyl]amines. 3,461,120, 8-12-69, Cl. 260-240.
Zenitz, Bernard L.; and Surrey, Alexander R., to Sterling Drug Inc.N-acyl-N- (and N,N-bis-) [(1-piperidyl-lower- alkyl]amines. 3,479,346, 11-18-69, Cl. 260-240.
Zenker, Raymond O.: *See—*
Miller, Charles Fredrick; and Zenker, Raymond O.,3,448,910.
Miller, Charles Fredrick; Zenker, Raymond O.; and Durant, Bobby G.,3,451,607.
Zenner, Karl-Friedrich; Oertel, Gunter; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of ether-containing isocyanates. 3,453,310, 7-1-69, Cl. 260-453.
Zenner, Karl-Friedrich: *See—*
Himmelmann, Wolfgang; Riebel, Alexander; Zenner, Karl-Friedrich; and Meckl, Heinz,3,480,440.
Oertel, Gunter; Holtschmidt, Hans; Wagner, Kuno; and Zenner, Karl-Friedrich,3,480,591.
Von Bonin, Wulf; and Zenner, Karl-Friedrich,3,474,061.
Zenner, Walter J. Line relay for D.C. telegraph systems. 3,476,879, 11-4-69, Cl. 178-70.
Zent, Lawson J. Device for mounting a mirror on an automobile. 3,482,811, 12-9-69, Cl. 248-480.
Zentralen Institut Po Iztchislitelna Technika: *See—*
Bakardjiev, Stefan T.; Stantchev, Ivan Tenev; and Antonov, Dubomir Iordanov, 3,422,754.
Zentralinstitut fur Schweisstechnik der DDR: *See—*
Anders, Walter; and Weisselberg, Arnold, 3,436,520.
Weisselberg, Arnold; and Herfurth, Horst, 3,436,519.
Zenzefilis, George E. Lever train actuator. 3,474,687, 10-28-69, Cl. 74-518.
Zephon Limited: *See—*
Byers, Edward Victor, 3,424,083.
Zepp, Donald J.: *See—*
Trickett, Terrance; Zepp, Donald J.; Horne, Benjamin; and Brill, Thomas,3,445,635.
Zeppelzauer, Franz: *See—*
Bauer, Heinrich; Romgens, Hans; Sontag, Hans-Jurgen; and Zeppelzauer, Franz,3,451,871.
Zerfahs, Arthur S., to SCM Corporation. Duplicating mechanism. 3,482,912, 12-9-69, Cl. 355-14.
Zerfoss, Robert W., to General Electric Company. Latch device. 3,455,590, 7-15-69, Cl. 292-128.
Zerfoss, Robert W., to General Electric Company. Latch device. 3,479,701, 11-25-69, Cl. 24-73.
Zerilli, Luigi: *See—*
Taramasso, Marco; and Zerilli, Luigi,3,443,359.
Zerkin, Milton, to Fairchild Camera and Instrument Corporation. Hybrid distributed-lumped-constant delay line. 3,421,119, 1-7-69, Cl. 333-29.
Zerlin, William M.: *See—*
Flanagan, James R.; and Zerlin, William M.,3,439,294.
Zerner, Michael C.: *See—*
Sobieski, James F.; and Zerner, Michael C.,3,464,960.
Zero Manufacturing Company: *See—*
Compton, Richard R., 3,485,074.
Duncan, Lloyd P., 3,479,008.
Heimann, Bernard; Duncan, Lloyd P.; and Oberg, Nathan, 3,482,593.
Zero-Max Industries, Inc.: *See—*
Hess, Elmer J., 3,481,485.
Zerrer, Gerhard: *See—*
Heilig, Alfred; and Zerrer, Gerhard,3,477,482.
Zerver, Alfred, to Hazet-Werk Hermann Zerver. Tool carriage particularly for repair shops of the like. 3,451,737, 6-24-69, Cl. 312-201.
Zerwes, Paul J., to Bell Electric Company. Faceplate. 3,438,534, 4-15-69, Cl. 220-24.3
Zerwes, Paul J., to Bell Electric Company. Hooded weatherproof extension adapter and junction box construction. 3,439,108, 4-15-69, Cl. 174-53.
Zeschmar, Winfried: *See—*
Zorn, Hermann; Hrach, Josef; and Zeschmar, Winfried,3,477,989.
Zetterberg, Einar, to Aktiebolaget Skane-Emballage. Device for placing threaded closures on containers. 3,477,202, 11-11-69, Cl. 53-315.
Zetterlund, Rune A. E.; and Waeltz, Ronald, to Standard Pressed Steel Co. Plastic applicator and process. 3,458,896, 8-5-69, Cl. 18-5.
Zettler, John F.: *See—*
Belson, Ross A.; and Zettler, John F.,3,461,796.
Zettler, Robert A.: *See—*
Soshea, Richard W.; and Zettler, Robert A.,3,463,971.
Zettler, Toby T.: *See—*
Horvath, Roland J.; Parsons, Charles G.; and Zettler, Toby T.,3,445,383.
Zettwoog, Pierre: *See—*
Yerouchalmi, David; and Zettwoog, Pierre,3,450,905.
Zetzsche, James B., Jr. Irrigation pipe. 3,449,791, 6-17-69, Cl. 18-1.
Zeuner, Kenneth W.: *See—*
Boonshaft, Julius C.; and Zeuner, Kenneth W.,3,466,003.
Zeunik, Robert L.: *See—*
Humphress, Joseph G.; and Zeunik, Robert L.,3,438,115.
Zeuthen & Aagaard A/S: *See—*
Valentin, Francois P.; Basso, Yves; and Rongier, Charles P., 3,482,039.

Zeuzem, Ruth M. Container with cap-operated stirring mechanism. 3,456,923, 722-69, Cl. 259-108.
Zgarba, Milan: *See*—
Riha, Miloslav; Cernocky, Jiri; and Zgarba, Milan,3,451,435.
Zgurskaya, Ljubov Martynova: *See*—
Poltavtsev, Illarion Semenovich; Smiryagin, Anatoly Grigorievich; Protsenko, Viktor Vasilievich; Shvedov, Vasily Eliseevich; Zgurskaya, Ljubov Martynova; Lyakhovich, Igor Fedorovich; Rutberg, Efim Izrailevich; and Borovik, Nikolai Alexandrovich,3,443,836.
Zhavoronkov, Lev Vasilievich: *See*—
Oskolsky, Asaf Alexandrovich; Ivashkov, Nikolai Melitonovich; Rastorguev, Vladislav Vladimirovich; Shmuilov, Nikolai Leonidovich; and Zhavoronkov, Lev Vasilievich,3,426,717.
Zhezmer, Boris Yakovlevich; Pak, Iosif Ivanovich; and Pruss, Anatoly Isaakovich. Rotary armature electromagnet. 3,436,702, 4-1-69, Cl. 335-276.
Zhilenko, Vasily Anatolievich: *See*—
Bogdanov, Alexandr Antonovich; Pomazkova, Zinaida Serafimovna; Petrova, Valentina Vasilievna; and Zhilenko, Vasily Anatolievich,3,475,634.
Zhulidov, Grigory Ipatievich: *See*—
Chuiko, Pavel Ivanovich; Drobich, Oleg Pavlovich; Gerzmava, Dusheli Vladimirovich; Khamkhotko, Anatoly Eedorovich; Gulyaev, Gennady Ivanovich; Pritomanov, Alexei Evgenievich; Korobochkin, Iosif Julievich; Yakimenko, Nikolai Savvich; and Zhulidov, Grigory Ipatievich,3,472,050.
Zhurenko, Anna Timofeevna: *See*—
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Bykov, Alexandr Evseevich; Gritsenko, Nikolai Demyanovich; Zhurenko, Anna Timofeevna; Kuchin, Nikolai Mikhailovich; Kirkinsky, Sergei Dmitrievich; Sitnikova, Svetlana Georgievna; Solyanik, Vitaly Filippovich; Urvantsev, Leonid Mikhailovich; Tikhomirov, Alexandr Vasilievich; Yarovoi, Vyacheslav Savich; and Yasjukevich, Boris Ivanovich,3,466,862.
Ziche, Arrigo, to Brevetti C.E.A. S.p.A. Apparatus for checking of impurities. 3,458,967, 8-5-69, Cl. 53-54.
Zichichi, Andrew W.; and Michalke, Klaus A., to Chrysler Corporation. Windshield wiping and washing system. 3,447,185, 6-3-69, Cl. 15-250.01
Zick, Leonard Paul, Jr.: *See*—
Endicott, John Seward; and Zick, Leonard Paul, Jr.,3,471,053.
Zick, Warren H., to Velsicol Chemical Corporation. Herbicidal composition and method. 3,473,913, 10-21-69, Cl. 71-115.
Zickel, Robert E. Intramedullary rod and cross-nail assembly for treating femur fractures. 3,433,220, 3-18-69, Cl. 128-92.
Zickel, Thomas A.: *See*—
Templin, Jackson R.; and Zickel, Thomas A.,3,460,754.
Zickendraht, Christian; and Buehler, Arthur, to Ciba Limited. Phthalocyanine dyestuffs. 3,483,190, 12-9-69, Cl. 260-239.6
Zickuhr, Walemar, to Siemens Aktiengesellschaft. Blade structure for turbines. 3,475,108, 10-28-69, Cl. 415-194.
Zido, Joseph E., to Westinghouse Electric Corporation. Hermetically sealed electrical device. 3,475,662, 10-28-69, Cl. 317-234.
Zido, Joseph E., to Westinghouse Electric Corporation. Resin encapsulated semiconductor device. 3,476,988, 11-4-69, Cl. 317-234.
Zido, Joseph E., to Westinghouse Electric Corporation. Encapsulated semiconductor device. 3,486,084, 12-23-69, Cl. 317-234.
Zido, Joseph E.; and Whalen, Thomas A., to Westinghouse Electric Corporation. Resin encapsulated semiconductor device. 3,476,987, 11-4-69, Cl. 317-234.
Zidron, Martin V.; Rau, Ben W.; and Nagel, Robert I. Pilot chartboard and emergency cockpit panel lighting. 3,452,188, 6-24-69, Cl. 240-2.
Ziebart, Kurt R. Swing device. 3,480,272, 11-25-69, Cl. 272-33.
Zieber, Frederick L.: *See*—
Compton, James B.; and Zieber, Frederick L.,3,453,504.
Zieber, George M., Jr., to Teleflex Incorporated. Motion transmitting core element and method for making same. 3,443,451, 5-13-69, Cl. 74-501.
Zief, Morris: *See*—
Michelotti, Francis W.; and Zief, Morris,3,459,828.
Zief, Morris; and Schramm, Charles H., to Baker, J. T., Chemical Company. Polymers of alkyl methacrylates and imides. 3,448,094, 6-3-69, Cl. 260-86.1
Ziegelman, Norman H.: *See*—
Ziegelman, Robert L.; and Ziegelman, Norman H.,3,461,633.
Ziegelman, Robert L.; and Ziegelman, Norman H. Prefabricated building structure. 3,461,633, 8-19-69, Cl. 52-643.
Ziegenhagen, Paul D.; Fretz, Harold R.; Langlois, Arthur C.; and Damrau, Wayne A., to Consolidated Papers, Inc. Method and apparatus for measuring porosity. 3,466,925, 9-16-69, Cl. 73-38.
Ziegenhagen, Paul D.: *See*—
Langlois, Arthur C.; and Ziegenhagen, Paul D.,3,475,956.
Ziegler, Charles E.; and Eden, Jamal S., to Goodrich, B. F., Company, The. Cobalt molybdate catalyst for oxidizing olefins. 3,451,946, 6-24-69, Cl. 252-439.
Ziegler, Charles E.; and Eden, Jamal S., to Goodrich, B. F., Company, The. Catalysts for preparing acrylic acid and acrolein. 3,475,348, 10-28-69, Cl. 252-439.
Ziegler, Clarence B., Jr. Linear switch actuator having radial spaced cams and switches. 3,472,977, 10-14-69, Cl. 200-47.
Ziegler, Earl E., to Dow Chemical Company, The. Composite construction panel. 3,479,779, 11-25-69, Cl. 52-144.
Ziegler, Edward J.: *See*—
Hanson, Rudolph A.; Ziegler, Edward J.; and Fischer, John E.,3,466,855.
Ziegler, Edwin E., to General Electric Company. Washing machine. 3,481,162, 12-2-69, Cl. 68-4.
Ziegler, Eugene R., to General Motors Corporation. Wiper control. 3,449,785, 6-17-69, Cl. 15-250.12
Ziegler, Eugene R., to General Motors Corporation. Windshield washer having two durations of liquid application. 3,454,977, 7-15-69, Cl. 15-250.02
Ziegler, Franz. Suspension fitting for sliding doors. 3,457,676, 7-29-69, Cl. 49-409.
Ziegler, Franz. Door fitting for glass sliding suspension doors. 3,457,677, 7-29-69, Cl. 49-409.
Ziegler, George Edward, to United Merchants and Manufacturers, Inc. Overfeed prevention means in a spiral dye beck or the like. 3,462,979, 8-26-69, Cl. 68-176.
Ziegler, George Edward: *See*—
Kilgour, Gilbert Innes; and Ziegler, George Edward,3,460,362.
Ziegler, George S.: *See*—
Beach, John M.; Cecil, Harry H.; White, Arthur R.; and Ziegler, George S.,3,423,104.
Ziegler, George William, Jr., to AMP Incorporated. Dielectric bead structure of coaxial connectors. 3,437,960, 4-8-69, Cl. 333-97.
Ziegler, George William, Jr., to AMP Incorporated. Transmission line compensation for high frequency devices. 3,460,072, 8-5-69, Cl. 333-33.
Ziegler, George William, Jr., to AMP Incorporated. Tool for applying connection means to tubular members. 3,484,921, 12-23-69, Cl. 29-203.
Ziegler, George William, Jr.; and Apa, Armand Samuel, to AMP Incorporated. Center contact structure for coaxial cable conductors. 3,453,376, 7-1-69, Cl. 174-75.
Ziegler, Herbert: *See*—
Binon, Fernand; Ziegler, Herbert; and Inion, Henri,3,470,192.
Binon, Fernand; Ziegler, Herbert; and Marr, Claude,3,462,485.
Ziegler, Horst, to Continental Elektroindustrie AG Askania-Werke. Apparatus for measuring a difference in pressure. 3,461,726, 8-19-69, Cl. 73-398.
Ziegler, James F.: *See*—
Martin, Daniel W.; and Ziegler, James F.,3,470,305.
Ziegler, John A., to Griffith Laboratories, Incorporated, The. Liquid pepper. 3,464,831, 9-2-69, Cl. 99-140.
Ziegler, John A., to Griffith Laboratories, Incorporated, The, mesne. Preparation of prefried cereal breading. 3,486,904, 12-30-69, Cl. 99-1.
Ziegler, John H., to Beech Aircraft Corporation. Livestock branding apparatus. 3,485,060, 12-23-69, Cl. 62-293.
Ziegler, John Richard, to General Motors Corporation. Electric indicator utilizing a bi-directional and multiple unidirection coils to provide extended pointer movement in opposite directions. 3,460,038, 8-5-69, Cl. 324-146.
Ziegler, Louis C. Apparatus for simulating navigation and attitude flying of aircraft. 3,471,627, 10-7-69, Cl. 35-10.2
Ziegler, Wolfram H.O.; and Fisher, Philip A., to Magnesium Elektron Limited. Magnesium base alloys. 3,469,974, 9-30-69, Cl. 75-168.
Ziehm, Gunter H.: *See*—
Thiele, Rudolf W.; and Ziehm, Gunter H.,3,487,409.
Ziehm, Gunter; Triebold, Karl-Friedrich; Schief, Alfred; and Leisterer, Reinhard W., to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for displaying the direction of incident plane waves. 3,464,056, 8-26-69, Cl. 340-6.
Ziehm, Kurt F., Jr., to Precision Extrusions, Inc. Edging strips. 3,472,133, 10-14-69, Cl. 94-17.
Ziehm, Richard T., to Xerox Corporation. Electric control circuits for sequential operation of motive means. 3,426,259, 2-4-69, Cl. 318-102.
Ziehm, Richard T., to Xerox Corporation. Duty cycle control circuit. 3,454,884, 7-8-69, Cl. 328-61.
Zieles, Robert S., to Bell Telephone Laboratories, Incorporated. Coil structure. 3,434,088, 3-18-69, Cl. 336-192.
Zielinski, Frederick C.; and Williams, Warren A., to United States of America, Navy, mesne. Wideband power amplifier. 3,424,992, 1-28-69, Cl. 330-13.
Zielinski, Robert D.: *See*—
Rosenberg, Roger L.; Watson, Donald W.; and Zielinski, Robert D.,3,437,740.
Zielinski, Robert J., to American Gas Association, Inc. Fail-safe system. 3,445,172, 5-20-69, Cl. 431-24.
Zielinski, Robert J.; and Metzger, David P., to American Gas Association, Inc. Proximity-responsive gas burner igniter. 3,477,797, 11-11-69, Cl. 431-256.
Zielke, Alfred, to Elmeg Elektro Mechanik G.m.b.H. Decimal point or comma printing means in multi- cipher digital printers. 3,426,676, 2-11-69, Cl. 101-93.

Zielke, Darrell W., to Troy National Bank, mesne. Magnetic tape cartridge. 3,423,039, 1-21-69, Cl. 242-55.19

Ziemba, Edward R., to North American Rockwell Corporation, mesne. Fabric positioning mechanism for knitting machines. 3,444,705, 5-20-69, Cl. 66-148.

Ziemba, Richard T.: *See—*
Voyentzie, Peter R.; and Ziemba, Richard T.,3,475,572.

Ziemba, Walter J., to Union Carbide Corporation. Hydraulic fluids. 3,472,781, 10-14-69, Cl. 252-75.

Ziemelis, Ojars J.: *See—*
Cope, Appleton D.; Luedicke, Edward; and Ziemelis, Ojars J.,3,471,741.

Ziemer, Richard W.; and Denison, Mathew R., to Electro-Optical Systems, Inc. Magnetically controlled fluid amplifier. 3,459,205, 8-5-69, Cl. 137-81.5

Zienty, Ferdinand B.; and Holm, Myron J., to Monsanto Company. Diphenethylbenzene mixed ester carboxamides. 3,420,870, 1-7-69, Cl. 260-471.

Zienty, Ferdinand B.; and Holm, Myron J., to Monsanto Company. Diphenethylbenzene tetracarboxylic acid esters. 3,420,872, 1-7-69, Cl. 260-475.

Zienty, Ferdinand B.; and Holm, Myron J., to Monsanto Company. Diphenethylbenzene tetracarboxylic acid derivatives. 3,468,940, 9-23-69, Cl. 260-515.

Zienty, Ferdinand B.; and Holm, Myron J., to Monsanto Company. Benzenediacetonitriles. 3,478,020, 11-11-69, Cl. 260-240.

Zierak, Stephen J.: *See—*
Andrews, Arthur J.; and Zierak, Stephen J.,3,473,347.

Zierden Co., The: *See—*
Zierden, Frank P., 3,456,964.

Zierden, Frank P., to Zierden Co., The. Low torque pipe swivel. 3,456,964, 7-22-69, Cl. 285-98.

Zieren, A. Dr. GmbH, Firma Chemiebau: *See—*
Furkert, Herbert; Mahler, Friedrich; Peters, Heinrich; and Stauffer, Adolf, 3,443,896.

Zierhut, Clarence D. Bowling glove. 3,486,171, 12-30-69, Cl. 2-159.

Ziering, Albert, to Hoffmann-La Roche Inc. 3-Lower-alkyl-1,2,3,4,5,6-hexahydro-6,11-di-lower- alkyl-9-diethylaminomethyl-2,6-methano-3-benzazocin- 8-ols. 3,474,106, 10-21-69, Cl. 260-294.7

Ziering, Marvin B.: *See—*
Clawson, Lawrence G.; and Ziering, Marvin B.,3,430,483.

Ziermann, Hermann; and Olson, Robert E., to United Aircraft Corporation. Breathing apparatus with fluid diode valve. 3,435,822, 4-1-69, Cl. 128-145.6

Ziesak, Herbert Walter: *See—*
Bieder, Gert Gottfried; Ziesak, Herbert Walter; and Kuhn, Kurt Gerhard,3,460,709.

Zieske, Paul L.: *See—*
Kofoid, Melvin J.; and Zieske, Paul L.,3,437,864.

Zietlow, Philip K.: *See—*
McKown, William L.; Zietlow, Philip K.; and Ball, Murray E.,3,464,826.

Ziffer, Jack; and Gaffney, Arthur S., to Pabst Brewing Company. Inhibition of microbial growth in aldonic acid and aldonate compositions. 3,483,003, 12-9-69, Cl. 99-150.

Ziffer, Jack; Gaffney, Arthur S.; Rothenberg, Simon; and Cairney, Thomas J., to Pabst Brewing Company. Aldonic acid and aldonate compositions and production thereof. 3,454,501, 7-8-69, Cl. 252-142.

Zifferer, Lothar Robert. Process for pulverizing material. 3,428,259, 2-18-69, Cl. 241-5.

Zijderveld, Jacobus Antonius: *See—*
de Lange, Robert Gerardus; Verbraak, Cornelis Antonius; and Zijderveld, Jacobus Antonius,3,450,372.

Zijp, Jan W. H.; and Dullens, Wilhelmus J. M. M., to Stamicarbon N.V. Process for preparing polymer mixtures containing a polyvinyl halogenide. 3,426,106, 2-4-69, Cl. 260-897.

Zilberman, Evgeny Konstantinovich; and Morin, Erik Pavlovich, to Rizhsky Elektrolampovy Zavod. Lead-in for devices with a quartz bulb. 3,452,322, 6-24-69, Cl. 339-144.

Zilberman, Jean: *See—*
Laborde, Emile; and Zilberman, Jean,3,451,913.

Zilberstein, Raoul Michel, to Laboratory for Electronics, Inc. Variable delay line with movable electrode. 3,436,688, 4-1-69, Cl. 333-30.

Ziliotto, Giovanni C. Water level control device. 3,429,334, 2-25-69, Cl. 137-386.

Ziliotto, Henry L.: *See—*
Strandskov, Frede B.; and Ziliotto, Henry L.,3,469,992.

Zilkha, Albert: *See—*
Frankel, Max; Gertner, David; Wagner, Daniel; and Zilkha, Albert,3,426,002.

Zilkha, Albert; and Avny, Yair, to Israel, State of, Prime Minister's Office, The. Preparation of graft polymers of synthetic polyamino acids on natural polyhydroxy compounds, their derivatives and synthetic polyhydroxy polymers. 3,441,526, 4-29-69, Cl. 260-9.

Zilko, Jacob P.; and Sherry, Leonard I., to Fairchild Camera and Instrument Corporation. Image-motion compensating mechanism for panoramic aerial cameras. 3,422,739, 1-21-69, Cl. 95-12.5

Zilling, Wilhelm: *See—*
Laschewski, Georg, 3,438,622.

Zillmer, Erich, to Voigtlander A.G. Magazine advancing structure for photographic projectors. 3,419,980, 1-7-69, Cl. 40-79.

Zillmer, Erich, to Voigtlander A.G. Slide-controlling structure for photographic projectors. 3,419,981, 1-7-69, Cl. 40-79.

Zillmer, Erich, to Voigtlander A.G. Structure for supporting components of a photographic projector. 3,420,607, 1-7-69, Cl. 353-100.

Zimatore, Carmelo: *See—*
Morici, Emanuele A.; and Zimatore, Carmelo,3,467,871.

Zimmer, Donald R.; and Stoll, Ulrich W., to Zimmer-Lightbody Industries, Inc. Torque nut. 3,455,361, 7-15-69, Cl. 151-21.

Zimmer, Ernest B., to Cincinnati Time Recorder Co. Self-correcting clock system. 3,469,390, 9-30-69, Cl. 58-34.

Zimmer, Ernest B.: *See—*
Schinner, Thomas J.; and Zimmer, Ernest B.,3,463,890.

Zimmer, Ernest C.; and Sickler, Raymond W. Snap locking structural device. 3,452,501, 7-1-69, Cl. 52-625.

Zimmer, Gerald W.: *See—*
Hofrichter, Charles H.; Haggerty, Thomas I.; and Zimmer, Gerald W.,3,463,745.

Zimmer, Glenn W. Portable gas flow proportional counter for laboratory and field use. 3,450,877, 6-17-69, Cl. 250-43.5

Zimmer, Hans J.: *See—*
Muller, Wolfgang Karl Heinz, 3,458,308.

Zimmer, Hans J., Aktiengesellschaft: *See—*
Muller, Wolfgang, 3,457,297.

Zimmer, Johannes: *See—*
Kraft, Rupert, 3,473,410.

Zimmer, Joseph. Method and apparatus for determining the viscosity of fluids. 3,456,494, 7-22-69, Cl. 73-60.

Zimmer Manufacturing Company: *See—*
Kratzsch, Harold L.; and Farling, Gene M., 3,428,045.

Zimmer, Michel, to Paillard S.A. Single frame drive control for kinematographic cameras. 3,436,148, 4-1-69, Cl. 352-169.

Zimmer, Philip H.; and Van Rooij, Joannes F., to Minnesota Mining and Manufacturing Company. Tape cartridge. 3,446,343, 5-27-69, Cl. 206-52.

Zimmer, Richard C.: *See—*
Ludwig, Wilbur G.; and Zimmer, Richard C.,3,430,414.
Ludwig, Wilbur G.; and Zimmer, Richard C.,3,475,257.

Zimmer, William F.: *See—*
Shepard, Alvin F.; Zimmer, William F.; and Ouderkirk, John T.,3,458,460.

Zimmer-Lightbody Industries, Inc.: *See—*
Zimmer, Donald R.; and Stoll, Ulrich W., 3,455,361.

Zimmerli, Frederick H., to Rohm & Haas Company. Automatic gravimetric titrator for batch operation. 3,447,906, 6-3-69, Cl. 23-253.

Zimmerman, Abraham A., to Esso Research and Engineering Company. Tetrakis NF_2 adduct of divinylcabinol and acrylate and polymer thereof. 3,441,550, 4-29-69, Cl. 260-89.5

Zimmerman, Arie: *See—*
Luksch, James A.; Dolan, Lawrence C.; Brooks, Robert A.; and Zimmerman, Arie,3,450,987.

Zimmerman, Arnold: *See—*
DeVries, Charles V.; and Zimmerman, Arnold,3,464,192.

Zimmerman, Carl W.: *See—*
Clement, Larry C.; Hammand, Jack; Hulme, Jack R.; and Zimmerman, Carl W.,3,425,274.

Zimmerman, Charles R.: *See—*
Ryan, John W.; Frederick, Phyllis; Golden, Michael E.; and Zimmerman, Charles R.,3,456,944.

Zimmerman, D. W., Mfg., Inc.: *See—*
Powell, Edgar R., 3,428,298.
Powell, Edgar R., 3,457,837.
Stanley, Robert W., 3,423,119.

Zimmerman, Delbert W. Device for handling workpieces. 3,450,428, 6-17-69, Cl. 294-82.

Zimmerman, Edward C., to Ball Brothers Company, Incorporated. Assemblage of packaging trays and packaging tray therefor. 3,473,654, 10-21-69, Cl. 206-65.

Zimmerman, Galen: *See—*
Ely, Robert G., 3,456,810.

Zimmerman, Harold M. Concrete conveyor. 3,485,481, 12-23-69, Cl. 259-170.

Zimmerman, Harry M.: *See—*
Leedy, Arthur A.; Pope, John T.; and Zimmerman, Harry M.,3,426,421.

Zimmerman, Heinz: *See—*
Muller, Klaus R. A.; Sych, Georg M.; and Zimmerman, Heinz,3,441,540.

Zimmerman, James E., to Ford Motor Company. Superconductive magnetometer in which superconduc- tive elements defining a magnetic conduit are connected by weak links. 3,445,760, 5-20-69, Cl. 324-43.

Zimmerman, John Aaron, Jr.: *See*—
Paullus, Clarence Leonard; and Zimmerman, John Aaron, Jr.,3,456,231.
Zimmerman, John R.: *See*—
Bray, Ellis E.; and Zimmerman, John R.,3,446,597.
Zimmerman, Joseph, to Du Pont de Nemours, E. I., and Company. Polyoctamethylene oxalamide blended with a second fiber forming linear polycarbonamide. 3,432,575, 3-11-69, Cl. 260-857.
Zimmerman, Mark S., to United States of America, Army, mesne. Pilot processing for phase shift keyed receiver. 3,428,752, 2-18-69, Cl. 179-15.
Zimmerman, Marlin U., Jr., to Technikoil, Inc., mesne. Shale oil recovery process. 3,442,789, 5-6-69, Cl. 208-8.
Zimmerman, Michel Tone, to Bell & Howell Company, mesne. Vibrometer with hermetically sealed magnet capsule. 3,463,946, 8-26-69, Cl. 310-15.
Zimmerman, Philip D.: *See*—
Drever, James Ross; Zimmerman, Philip D.; and Brink, Allan B.,3,476,847.
Zimmerman, Rhoderick H., to Litton Systems, Inc. Buffered emitter-coupled trigger circuit. 3,443,127, 5-6-69, Cl. 307-290.
Zimmerman, Richard Le Roy: *See*—
Dechert, Woodrow Wilson, Jr.; and Zimmerman, Richard Le Roy,3,447,457.
Zimmerman, Robert L., to Dow Chemical Company, The. Unsaturated dicarboxylic acid half ester resin composition. 3,437,643, 4-8-69, Cl. 260-78.5
Zimmerman, Robert L.; and Pickelman, Dale M., to Dow Chemical Company, The. Preparation of homogeneous copolymers of α,β-unsaturated cyclic anhydride. 3,458,484, 7-29-69, Cl. 260-78.5
Zimmerman, Rolf; and Hotze, Hermann, to Chemische Werke Albert. Copolymers of cyclic acetals and functional derivatives of acrylic acids. 3,471,430, 10-7-69, Cl. 260-92.6
Zimmerman, Thomas Anthony; and Burrus, Thomas W., to Radio Corporation of America. Blanking circuits for television receivers. 3,436,475, 4-1-69, Cl. 178-7.5
Zimmermann & Jansen G.m.b.H.: *See*—
Regelin, Donald H.; and Engels, Jakob, 3,439,910.
Zimmermann, Frederick John: *See*—
Schoeffel, Eugene Wilhelm; and Zimmermann, Frederick John,3,442,798.
Zimmermann, Frederick N., to March Manufacturing Company. Magnetically-coupled pump with detachable motor. 3,465,681, 9-9-69, Cl. 103-87.
Zimmermann, Gert. Method and apparatus for sorting and counting coins and other workpieces. 3,431,920, 3-11-69, Cl. 133-3.
Zimmermann, Gert. Coin sorting device with vibrating sorting bar. 3,434,482, 3-25-69, Cl. 133-3.
Zimmermann, Gunter: *See*—
Wieland, Ernst; and Zimmermann, Gunter,3,456,255.
Zimmermann, Hans: *See*—
Kelch, Heinz; and Zimmermann, Hans,3,469,775.
Muller, Helmuth; and Zimmermann, Hans,3,482,774.
Zimmermann, Heinrich, to Dual Gebruder Steidinger. Holding device for the pickup in a tone arm. 3,427,032, 2-11-69, Cl. 274-24.
Zimmermann, Herbert: *See*—
Korth, Willi; and Zimmermann, Herbert,3,471,974.
Zimmermann, Karl; Sturzenegger, Carlmax; and Eicher, Werner, to Ciba Limited. Suction filter. 3,441,141, 4-29-69, Cl. 210-241.
Zimmermann, Markus, to Geigy Chemical Corporation. N^1-Acetyl-N^1-(cyclopropyl-2-pyrimidinyl)- sulphanilamides. 3,438,980, 4-15-69, Cl. 260-239.75
Zimmermann, Markus, to Geigy Chemical Corporation. Cyclopropyl-2-sulphanilamido-pyrimidines. 3,441,560, 4-29-69, Cl. 260-239.75
Zimmermann, Markus, to Geigy Chemical Corporation. Cyclopropyl-4-sulfanilamido-pyrimidines. 3,457,278, 7-22-69, Cl. 260-239.75
Zimmermann, Martin Richard. Apparatus for the recovery of solvents from the air. 3,486,305, 12-30-69, Cl. 55-198.
Zimmermann, Max: *See*—
Peter Van Dillen, Paul Joan; Vollmer, Eva Maria; Kallfass, Herbert; and Zimmermann, Max,3,428,488.
Zimmermann, Rolf, to Chemische Werke Albert. Hexahydrotriazine derivative. 3,470,177, 9-30-69, Cl. 260-248.
Zimmermann, Rolf; Busch, Wolfram Ernst; and Reiners, Fritz, to Chemische Werke Albert. Compositions for preparing heat-curable fire retardant molding compositions. 3,470,094, 9-30-69, Cl. 252-8.1
Zimmermann, Rolf; and Dathe, Wolfgang, to Chemische Werke Albert. Process for the manufacture of ethers of polyhydric alcohols. 3,431,308, 3-4-69, Cl. 260-615.
Zimmet, Arthur L.; and Hubbard, Richard H., to Mizzy, Inc. Needleless injector. 3,461,867, 8-19-69, Cl. 128-173.
Zimmet, Donald, to Thiokol Chemical Corporation. Slide valve for rocket motors. 3,474,621, 10-28-69, Cl. 60-39.48
Zimmet, Hans, to VEB Pentacon Dresden Kamera- und Kinowerke. Film transporting mechanism for photographic cameras. 3,455,224, 7-15-69, Cl. 95-31.
Zinc Corporation Limited, The: *See*—
Davis, William John Nankivell, 3,446,353.
Zincone, Robert: *See*—
Vacca, Luigi; and Zincone, Robert,3,428,132.
Zinga, William L., to Dynatran Corporation of Illinois. Material pumping assembly. 3,429,267, 2-25-69, Cl. 103-49.
Zingarelli, Thomas P., 2nd: *See*—
Kezer, Charles F.; and Zingarelli, Thomas P., 2nd,3,445,071.
Zingerman, Joel Ronald, to American Cyanamid Company. Pigment sealing coats. 3,427,182, 2-11-69, Cl. 117-72.
Zingerman, Joel Ronald; and Elowe, Louis Nasir, to American Cyanamid Company. Method for coating pharmaceutical forms with methyl cellulose. 3,431,138, 3-4-69, Cl. 117-100.
Zingg, Warren M., to Dow Chemical Company, The. Bailer dump bottom. 3,477,758, 11-11-69, Cl. 294-69.
Zingg, Warren M.; and Swift, Paul P., to Dow Chemical Company, The. Time-delayed control device. 3,457,431, 7-22-69, Cl. 307-116.
Zink, Ben J., to Barber-Greene Company. Digger tooth wedge assembly. 3,481,057, 12-2-69, Cl. 37-142.
Zink, John, Company: *See*—
Reed, Robert D., 3,429,645.
Reed, Robert D., 3,431,057.
Reed, Robert D., 3,477,824.
Zink, Julius, to Beringer, C. J., Co., Inc. Screen changer apparatus for extrusion machines. 3,455,357, 7-15-69, Cl. 146-174.
Zink, Robert D., to United States of America, Navy. Rain gauge for airborne vehicle. 3,446,069, 5-27-69, Cl. 73-171.
Zinkham, Robert E.: *See*—
Goodwin, Robert J.; Mori, Ernest A.; Pekarek, Joseph L.; Schaub, Paul W.; and Zinkham, Robert E.,3,467,211.
Zinky, William R.: *See*—
Justh, Bruce; and Zinky, William R.,3,427,090.
Zinn, Leon: *See*—
Baldwin, William W.; McCoy, C. Dana; Bodin, Milton; and Zinn, Leon,3,436,634.
Zinn, Robert E., to Little, Arthur D., Inc. Rotating sectioned furnace. 3,436,061, 4-1-69, Cl. 263-32.
Zinnatullin, Mars Khamidulich: *See*—
Mezhlumov, Onik Arsenievich; Muravlenko, Viktor Ivanovich; Turik, Vladimir Fedorovich; Postnov, Evgeny Akimovich; Shibanov, Vladimir Alexandrovich; Fonarev, Konstantin Stepanovich; Isyangulov, Avzaletdin Gizyatullovich; Zinnatullin, Mars Khamidulich; Sukhov, Evgeny Ivanovich; Lapochkin, Viktor Petrovich; Serper, Ruvin Iosifovich; Koksharov, Vladimir Mikhailovich; and Gorbunov, Vladimir Ivanovich,3,473,624.
Zinnes, Harold; Shavel, John, Jr.; and Sternberg, Martin S., to Warner-Lambert Pharmaceutical Company. 3-Lower alkoxy-2H-1,2-benzothiazin-4(3H)- one 1,1,-dioxide for treating ammonemic states in mammals. 3,479,436, 11-18-69, Cl. 424-246.
Zinnkann, Kurt, to General Motors Corporation. Height adjusting device for a vehicle seat. 3,473,844, 10-21-69, Cl. 297-345.
Zinoviev, Vladimir Konstantinovich: *See*—
Getselev, Zinovy Naumovich; Balakhontsev, Gennady Alexeevich; Cherepok, Gennady Vasilievich; Zinoviev, Vladimir Konstantinovich; Ershova, Antonida Alexeevna,; and Nonin, Mikhail Moiseevich,3,467,166.
Zinser-Textilmaschinen Gesellschaft mit beschraenkter Haftung: *See*—
Scherr, Hermann, 3,435,586.
Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung: *See*—
Bucher, Erich; Osterreicher, Wolfgang; and Mahlmann, Werner, 3,426,520.
Schulz, Gunter; and Roethke, Ernst, 3,462,934.
Walk, Hansjorg, 3,456,770.
Zinsmeyer, Herbert G. Photo-electric timer control. 3,428,861, 2-18-69, Cl. 315-159.
Zinz, Bruno: *See*—
Schmid, Helmut; Luck, Wolfhard; Loderhose, Ernst; Zinz, Bruno; and Komarek, Ernst,3,482,925.
Ziolko, Francis J., to Johnson & Johnson. Machine and process of linking stuffed casings. 3,435,482, 4-1-69, Cl. 179-1.
Ziolkowski, Gerald J.; and Shada, Jan Dennis. Rotary test tube ice bath. 3,443,396, 5-13-69, Cl. 62-377.
Ziolkowski, Robert L.: *See*—
Atkins, Carl E.; and Ziolkowski, Robert L.,3,435,298.
Ziomek, Joseph F.: *See*—
Nilssen Ole K.; and Ziomek, Joseph F.,3,424,142.
Zip Products, Inc.: *See*—
Hennessey, Everett T., 3,463,478.
Hennessey, Everett T., 3,463,479.
Zip-Up Lighting Tower Co., Inc.: *See*—
Partlow, Jackson A., 3,439,467.
Zipay, Albert J.: *See*—
Gorzegno, Walter P.; and Zipay, Albert J.,3,472,208.
Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid, to Boehringer Ingelheim G.m.b.H.5.6.11,12-Tetrahydro-dibenzo [b,f] [1,5] diazocine-6,12-diones and method of preparation. 3,470,152, 9-30-69, Cl. 260-239.3

Zipper, Donald H., to Continental Can Company, Inc. Closure with means to control opening torque. 3,448,881, 6-10-69, Cl. 215-40.
Zipper, Donald H., to Continental Can Company, Inc. Closure with molded ring gasket. 3,473,683, 10-21-69, Cl. 215-40.
Zirkle, Charles L.: *See—*
Kaiser, Carl; and Zirkle, Charles L.,3,423,461.
Kaiser, Carl; and Zirkle, Charles L.,3,449,427.
Kaiser, Carl; and Zirkle, Charles L.,3,462,491.
Kaiser, Carl; and Zirkle, Charles L.,3,470,188.
Kaiser, Carl; and Zirkle, Charles L.,3,476,760.
Kaiser, Carl; and Zirkle, Charles L.,3,485,844.
Zirkle, Charles L., to Smith Kline & French Laboratories. 9[2(2 Piperidinyl)ethyl]and 9[2-(2 pyrrolidinyl)ethyl]acridanes. 3,449,334, 6-10-69, Cl. 260-240.
Lafferty, John J.; and Zirkle, Charles L.,3,455,927.
Zirngibl, Hans: *See—*
Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, Hans-Joachim; Bornefeld, Horst; and Deissmann, Walter,3,451,835.
Zirngibl, Hans; Brandle, Karl; Beumer, Peter; and Weidmann, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Vapour phase oxidation process. 3,485,584, 12-23-69, Cl. 23-202.
Zirngibl, Hans; Gerken, Rudolf; Heine, Heinz; and Weise, Johannes, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of hydroxylammonium- salts. 3,486,846, 12-30-69, Cl. 23-117.
Zirngibl, Hans; and Gutsche, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for converting metal halides into their oxides. 3,481,703, 12-2-69, Cl. 23-202.
Zirngibl, Hans; Gutsche, Walter; and Brandle, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of finely divided oxides from halides. 3,486,913, 12-30-69, Cl. 106-288.
Zirps, Wilhelm: *See—*
Kramer, Manfred; Mayer, Siegfried; Reichert, Rudolf; Rose, Klaus; and Zirps, Wilhelm,3,425,593.
Zirwas, Johann Gerhard, to Siemens Aktiengesellschaft. Amplifier with temperature compensation lying in the feedback path. 3,431,507, 3-4-69, Cl. 330-23.
Zis, Jerome C.: *See—*
Smitzer, Louis A.; Gawin, Adolph J.; Rempala, Chester S.; and Zis, Jerome C.,3,438,323.
Ziskal, Joseph F.: *See—*
Barrett, Robert D.; Ziskal, Joseph F.; and Morgan, Jerry E.,3,474,623.
Zisman, Bernard: *See—*
Ferris, Donald L.; and Zisman, Bernard,3,465,831.
Ziss, Sheldon: *See—*
Bernfeld, Moe M.; and Ziss, Sheldon,3,465,849.
Zitko, Ronald F.; and Phillips, Carmen S., to International Harvester Company. Row crop harvester. 3,439,479, 4-22-69, Cl. 56-16.
Zitko, Ronald F.: *See—*
Hoch, Manfried L.; Zitko, Ronald F.; and Wilkins, James D.,3,427,753.
Zitnik, Anthony, Jr.; and Moore, James T. Multiple lever manual tone changer for guitars. 3,479,917, 11-25-69, Cl. 84-312.
Zitter, Robert N.: *See—*
Griffiths, James E.; Pao, Yoh-Han; and Zitter, Robert N.,3,426,208.
Zitter, Robert, to Science for Fun, Inc. Hand-operated distorting toy mirror. 3,445,157, 5-20-69, Cl. 350-295.
Zittler, Richard B.: *See—*
Damato, Daniel A.; Lazar, Sheldon; and Zittler, Richard B.,3,449,873.
Zitzelman, Karl: *See—*
Lewis, Philip W.; Zitzelman, Karl; and Brom, Lawrence V.,3,450,347.
Zitzewitz, Barbara O.: *See—*
Vischer, Alfred, Jr., 3,431,902.
Zitzewitz, Elmer K.: *See—*
Vischer, Alfred, Jr., 3,431,902.
Zitzewitz, Walter W.: *See—*
Vischer, Alfred, Jr., 3,431,902.
Zitzwitz, Gertrude J.: *See—*
Vischer, Alfred, Jr., 3,431,902.
Ziv, Martin H.: *See—*
Ladenheim, Harry; and Ziv, Martin H.,3,442,607.
Zizin, Valentin Grigorievich: *See—*
Proskuryakov, Lev Mikhailovich; and Zizin, Valentin Grigorievich,3,433,729.
Zjulina, Elena Aristarkhovna: *See—*
Golant, Mikhail Borisovich; Negirev, Alexandr Andreevich; Tager, Alexandr Semnovich; Pobedonostsev, Alexandr Sergeevich; Zjulina, Elena Aristarkhovna; and Samorodova, Galina Alexandrovna,3,436,690.
Zlatohlavek, Jiri: *See—*
Svaty, Vladimir; and Zlatohlavek, Jiri,3,487,436.
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri,3,429,344.
Svaty, Vladimir; Bilek, Jan; and Zlatohlavek, Jiri,3,433,271.
Zletz, Alex: *See—*
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A.,3,440,293.
Rosscup, Robert J.; Zletz, Alex; and Schaap, Luke A.,3,455,664.
Zmau, Gheorghe: *See—*
Belousov, Vitalie; Alecsandrescu, Constantin-Jean; Zmau, Gheorghe; and Stan, Mihaita,3,448,545.
Zmuda, Benjamin D.: *See—*
Weichselbaum, Theodore E.; and Zmuda, Benjamin D.,3,467,617.
Znamirowski, Henry, to Eastern Products Corporation. Slide for drapery hardware installation. 3,427,679, 2-18-69, Cl. 16-93.
Znamirowski, Henry; and Roles, David J., to Eastern Products Corporation. Suspended ceiling. 3,457,688, 7-29-69, Cl. 52-573.
Zober, Walter; Ricci, John N.; and Pingitore, Domenick C. Bell, yoke and coil assembly for reciprocating signal devices. 3,451,057, 6-17-69, Cl. 340-396.
Zoberg, Joseph. Bidet system. 3,430,268, 3-4-69, Cl. 4-7.
Zoche, Gunter: *See—*
Muller, Ernst W.; Zoche, Gunter; and Korte, Friedrich W.A.G.K.,3,475,477.
Zocher, Josef, to Singer Company, The. Felting needle. 3,464,097, 9-2-69, Cl. 28-4.
Zocher, Josef, to Singer Company, The. Needle for sewing or the like. 3,469,548, 9-30-69, Cl. 112-222.
Zocher, Josef, to Singer Company, The. Felting apparatus and method. 3,473,205, 10-21-69, Cl. 28-4.
Zocholl, Stanley E., to I-T-E Circuit Breaker Company. Saturating current transformer for static relays. 3,434,011, 3-18-69, Cl. 317-33.
Zocholl, Stanley E., to I-T-E Imperial Corporation, mesne. Static time-overcurrent relay. 3,444,434, 5-13-69, Cl. 317-36.
Zocholl, Stanley E.; and Conrad, Richard R., to I-T-E Imperial Corporation, mesne. Static A.C. switching circuit. 3,478,250, 11-11-69, Cl. 317-33.
Zock, Hendrik Frits, to Lever Brothers Company. Contact mass for preparing hologenosilanes and process therefor. 3,446,829, 5-27-69, Cl. 260-448.2
Zodrow, Rudolf, to Jagenberg-Werke AG. Apparatus for the labeling of bottles and other articles. 3,450,591, 6-17-69, Cl. 156-571.
Zoebelein, Hans: *See—*
Klesper, Ernst; and Zoebelein, Hans,3,449,370.
Zoeckler, Count Lee: *See—*
Toni, Henry; and Zoeckler, Count Lee,3,461,854.
Zoecon Corporation: *See—*
Edwards, John A.; Fried, John H.; and Siddall, John B., 3,455,905.
Huppi, Gerhard A.; and Siddall, John B., 3,481,926.
Zoerb, Edward G., to Honeywell Inc. Function generators. 3,451,413, 6-24-69, Cl. 137-81.5
Zofchak, James T.: *See—*
Maul, John A.; and Zofchak, James T.,3,420,171.
Zoiss, Melvin H.: *See—*
McGee, Sherwood W.; and Zoiss, Melvin H.,3,440,708.
Zola, John C. Aqueous multicolor coating compositions and preparation thereof. 3,458,328, 7-29-69, Cl. 106-15.
Zola, Meyer J., to Ferroxcube Corporation of America. Sense amplifier for memory system. 3,432,688, 3-11-69, Cl. 307-239.
Zoladz, Frank J., to General Instrument Corporation. Compact yoke for kinescope. 3,469,218, 9-23-69, Cl. 335-210.
Zollar, Herbert H.: *See—*
Smith, Walter W.; Longacher, Kenneth E.; and Zollar, Herbert H.,3,430,681.
Zoller, Frederic: *See—*
Durler, Jacques; and Zoller, Frederic,3,422,614.
Zollett, Phillip B. Self retaining occlusive stem pessary. 3,467,090, 9-16-69, Cl. 128-131.
Zolliker, Max, to Baggenstos, August. Typewriter for typing on stiff documents. 3,426,356, 2-4-69, Cl. 197-135.
Zollinger, Howard A., to Westinghouse Electric Corporation. Compost separator apparatus. 3,468,417, 9-23-69, Cl. 209-120.
Zollinger, Joseph La Mar, to Minnesota Mining and Manufacturing Company. Catalyzed nitrile trimerization process. 3,470,176, 9-30-69, Cl. 260-248.
Zollinger, Richard J.; and Genofsky, John J., to Whittaker Corporation, mesne. Measurement circuit including differential amplifier and single-ended output. 3,475,691, 10-28-69, Cl. 330-30.
Zollinger, Richard J.: *See—*
Magyar, John J.; and Zollinger, Richard J.,3,469,204.
Zollner, Georg: *See—*
Lukbe, Klaus; Schroder, Eberhard; and Zollner, Georg,3,423,390.
Zollner, Harry: *See—*
Dietrich, Rudolf; and Zollner, Harry,3,481,658.
Zollweg, Robert J.: *See—*
Ennulat, Dietrich F.; and Zollweg, Robert J.,3,476,969.
Zollweg, Robert J.; and Ennulat, Dietrich F., to Westinghouse Electric Corporation. Ceramic arc lamp construction. 3,474,277, 10-21-69, Cl. 313-220.

Zoltok, Harry: *See—*
Ehret, Yale W.; and Zoltok, Harry,3,431,677.
Zoltok, Harry, to Motor Coach Industries Limited. Pneumatic window operating device. 3,442,050, 5-6-69, Cl. 49-349.
Zoltok, Harry, to Motor Coach Industries Limited. Swing out type radiator. 3,485,293, 12-23-69, Cl. 165-86.
Zonal Film (Magnetic Coatings) Limited: *See—*
Toney, Derek J., 3,475,741.
Zondag, Nicolaas, to Ingenieursbureau Lemet Chromium H. van der Horst N.V. Method for welding together tubular construction parts and tubular construction parts so welded. 3,455,017, 7-15-69, Cl. 29-482.
Zonn, Lincoln M.: *See—*
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M.,3,445,836.
White, George S.; Lewis, Richard E.; and Zonn, Lincoln M.,3,474,435.
Zook, James David: *See—*
Josephs, Harold C.; and Zook, James David,3,434,893.
Zoomar, Inc.: *See—*
Back, Frank G.; and Sterflinger, Ludwig, 3,424,514.
Back, Frank G., 3,463,883.
Zoot, Robert M., to Hughes Aircraft Company. F.M. Laser contour mapper. 3,481,672, 12-2-69, Cl. 356-167.
Zopf, Edward N. Kite with detachable parachute. 3,430,899, 3-4-69, Cl. 244-153.
Zopf, Edward N. Yo-Yo. 3,452,474, 7-1-69, Cl. 46-228.
Zoppoth, Raymond Carl; and Young, James E., to Xerox Corporation. Apparatus for pyrogenically recording on transparencies. 3,480,965, 11-25-69, Cl. 346-76.
Zorn, Bruno: *See—*
Papayannis, Antonia; Zorn, Bruno; and Spahrkas, Heinrich,3,423,162.
Zorn, Eugene K., to Palleon Electronics Limited. Ultrasonic sensing device for a flushing valve on a plumbing fixture. 3,471,868, 10-14-69, Cl. 4-100.
Zorn, Hermann; Hrach, Josef; and Zeschmar, Winfried, to Sandoz A.G., also known as Sandoz Ltd. Copolyesters of 2,5-dihydroxyterephthalic acid. 3,477,989, 11-11-69, Cl. 260-47.
Zorn, Hermann; and Reisinger, Kurt, said Reisinger assors. to said Zorn. Process for the separation of an aromatic c_8-hydrocarbon fraction. 3,423,478, 1-21-69, Cl. 260-674.
Zorn, Hermann; Schindlbauer, Helmut; and Hagen, Helmut, said Schindlbauer, and said Hagen, assors to said Zorn. Process for the production of tertiary phosphines. 3,423,468, 1-21-69, Cl. 260-606.5
Zorn, Hermann; and Till, Heinrich, to Alpine Chemische Aktiengesellschaft. Process for the production of 2,5- dihydroxyterephthalic acid. 3,448,145, 6-3-69, Cl. 260-521.
Zorn, Peter A.; and Scheuring, George R., to Sinclair-Koppers Company. Collapsible bottle carrier. 3,465,913, 9-9-69, Cl. 220-111.
Zorner, Walter: *See—*
Ludewig, Max; Zorner, Walter; and Tonn, Elmar,3,439,924.
Zorska, Roman: *See—*
Griffith, Russell K.; and Zorska, Roman,3,481,970.
Zottarelli, Lawrence J.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,466,459.
United States of America,National Aeronautics and Space Administration, Administrator, 3,461,437.
Zotter, Bruno W.: *See—*
Tancredi, John J.; and Zotter, Bruno W.,3,433,992.
Zotter, Bruno W., to United States of America, Army. Synchronous wave linear accelerator wherein the slow wave circuit couples only to the positive synchronous wave. 3,428,848, 2-18-69, Cl. 315-3.5
Zottolo, Marco D. Drum tuning device. 3,439,573, 4-22-69, Cl. 84-411.
Zouch, Leslie Eric: *See—*
Rand, Walter Leslie; Hutton, Henry James; Toull, William Herbert; and Zouch, Leslie Eric,3,481,111.
Zowe Wolstan D. Handle and mounting for hand manipulated power tool. 3,436,869, 4-8-69, Cl. 51-170.
Zrike, Edward: *See—*
Frohlich, Gerhard Joseph; Kratavil, Allan Jerome; and Zrike, Edward,3,453,191.
Zrimsek, Arthur H.; and Vingas, George J., to Dresser Industries, Inc. Waterless molding sand. 3,431,123, 3-4-69, Cl. 106-38.35
Zrubek, William E., to United States of America, National Aeronautics and Space Administration. System for monitoring signal amplitude ranges. 3,456,201, 7-15-69, Cl. 328-116.
Zrudsky, Donald R.: *See—*
Pitts, Robert Donald; and Zrudsky, Donald R.,3,466,539.
Zschaeck, Herbert Karl. Check-out apparatus for self-service retail stores. 3,443,665, 5-13-69, Cl. 186-1.
Zschau, Horst: *See—*
Michels, Friedrich; and Zschau, Horst,3,459,889.
Zschauer, Karl Heinz: *See—*
Winstel, Gunter; Dathe, Joachim; and Zschauer, Karl Heinz,3,463,681.
Zschauer, Karl-Heinz: *See—*
Winstel, Gunter; Mettler, Klaus; Zschauer, Karl-Heinz; and Pelka, Horst,3,478,215.
Zschunke, Heinz: *See—*
Ploch, Siegfried; Scholtis, Walter; and Zschunke, Heinz,3,442,101.
Zsoka, Erzsebet nee Somkuti: *See—*
Wack, Geza; Perenyi, Tibor; Udvardy Nagy, Eva nee Oserei Pehany; and Zsoka, Erzsebet nee Somkuti,3,483,086.
Zsoka, Istvan: *See—*
Uliczky, Sandor; and Zsoka, Istvan,3,447,605.
Zubal, Anthony; and Davis, Harry F., to General Electric Company. Method and apparatus for helically winding strip material. 3,464,101, 9-2-69, Cl. 29-157.3
Zuber, Karl, to Bleistiftmaschinenbau Dipl. Ing. Karl. Devices for drying glued pencil blanks. 3,456,581, 7-22-69, Cl. 100-93.
Zubiani, Ruggero: *See—*
Habicht, Ernst; and Zubiani, Ruggero,3,435,035.
Zubik, Arnold R.; and Mosley, John C., to Esso Research and Engineering Company, mesne. Packaging of synthetic rubber blocks. 3,461,641, 8-19-69, Cl. 53-24.
Zubkov, Alexandr Mikhailovich: *See—*
Madoian, Susanna Gukasovna; and Zubkov, Alexandr Mikhailovich,3,484,657.
Zucca, Carlo: *See—*
Emanuel, Giovanni; and Zucca, Carlo,3,432,870.
Zucca, Marc Edouard: *See—*
Filippi, Jean-Paul; and Zucca, Marc Edouard,3,474,620.
Zuccaro, Robert H., to General Electric Company. Stabilized polyphenylene ether. 3,420,792, 1-7-69, Cl. 260-45.9
Zucchellini, Mose, to Fiat Societa per Azioni. Hydraulic slide control. 3,425,322, 2-4-69, Cl. 92-27.
Zucchellini, Mose, to Fiat Societa per Azioni. Gear adjustment for machine tool transmission. 3,429,201, 2-25-69, Cl. 74-675.
Zucconi, Bruno. Antenna housing. 3,482,253, 12-2-69, Cl. 343-834.
Zuch, Helmuth W. Anchored and enclosed bus duct structure. 3,428,741, 2-18-69, Cl. 174-99.
Zucker, Melvin J.: *See—*
Bernstein, Benjamin T.; Orsen, Stefan; and Zucker, Melvin J.,3,453,647.
Zucker, Murray, to Kops Bros., Inc., mesne. Brassiere with garment sides including crossed tapes. 3,464,417, 9-2-69, Cl. 128-429.
Zucker, Oved S.: *See—*
Aaland, Kristian; and Zucker, Oved S.,3,459,960.
Zucker, Robert D.; and Cooper, George G., to Van Baalen Heilbrun & Co., Inc. Means for mounting a monogram on a garment. 3,466,779, 9-16-69, Cl. 40-129.
Zuckerbraun, Jacob S., to Kollsman Instrument Corporation. Scanner driving photosensor with simple harmonic motion. 3,437,814, 4-8-69, Cl. 250-203.
Zuckerman, Herman: *See—*
Lippert, George, 3,484,955.
Zuckerman, Ira, to Panther Machine Corporation. Adjustale roll-supporting spindle. 3,434,675, 3-25-69, Cl. 242-72.
Zuckerman, Ira: *See—*
Grimm, Harold; and Zuckerman, Ira,3,473,798.
Zuczek, John F., 1/2 to Grodnick, Herbert and Grodnick, Martin. Method and apparatus for padding absorbent materials. 3,421,164, 1-14-69, Cl. 8-151.
Zuech, Ernest A., to Phillips Petroleum Company. Imines and production thereof. 3,422,142, 1-14-69, Cl. 260-566.
Zuech, Ernest A., to Phillips Petroleum Company. Catalyst and process for oligomerizing conjugated dienes. 3,435,088, 3-25-69, Cl. 260-677.
Zuech, Ernest A., to Phillips Petroleum Company. Isomerization of acyclic triene compounds. 3,441,629, 4-29-69, Cl. 260-683.2
Zuech, Ernest A., to Phillips Petroleum Company. Dimerization of olefins. 3,485,881, 12-23-69, Cl. 260-666.
Zuech, Ernest A.: *See—*
Kenton, Joseph R.; Crain, Donald L.; and Zuech, Ernest A.,3,449,463.
Zuehlke, Arthur A., to Bourns, Inc. Acceleration responsive switch including a buoyant sensor. 3,482,066, 12-2-69, Cl. 200-61.45
Zuehlke, Gerhard: *See—*
Ehrat, Kurt; and Zuehlke, Gerhard,3,453,919.
Zuelsdorf, Hilda A. Basket hanger. 3,452,957, 7-1-69, Cl. 248-318.
Zuercher, John; and Condon, Stanley, to American Machine & Foundry Company. Bowling ball return and storage mechanism. 3,479,029, 11-18-69, Cl. 273-49.
Zuercher, Warren H., to Stetson-Ross Machine Company, Inc. Slowdown means for longitudinal movement to lateral movement. 3,470,998, 10-7-69, Cl. 198-33.
Zuercher, Warren H., to Stetson-Ross Machine Company, Inc. Transfer system overdrop with lumber retarder. 3,486,602, 12-30-69, Cl. 198-30.
Zuerker, Siegfried J., to General Electric Company. Transistor amplifier circuit for piezo- electric phonograph cartridge. 3,446,920, 5-27-69, Cl. 179-100.4
Zugel, Martin J. Intermittent motion device. 3,443,455, 5-13-69, Cl. 74-820.

Zugel, Ottmar: *See*—
Koch, Walter; and Zugel, Ottmar,3,462,262.
Zugel, Victor A., to Harris-Intertype Corporation. Detector mechanism for feeding apparatus. 3,443,807, 5-13-69, Cl. 271-57.
Zuhn, Arthur A., to Caterpillar Tractor Company. Fluid operated pumping component for engines and motor driven apparatus. 3,420,182, 1-7-69, Cl. 103-13.
Zuili, Rene Gilbert. Picture projector for advertising. 3,472,586, 10-14-69, Cl. 353-30.
Zuk, Peter. Automatic needle positioner. 3,439,638, 4-22-69, Cl. 112-219.
Zuk, Peter. Convertible saw. 3,465,793, 9-9-69, Cl. 143-1.
Zukowska, Maria: *See*—
Horodko, Romuald; Rzuchowska, Ida; Szajng, Danuta; Walewska, Kazimiera; and Zukowska, Maria,3,484,070.
Zulauf, Dieter, to Tektronix, Inc. Resilient conductive coated foam member and electromagnetic shield employing same. 3,446,906, 5-27-69, Cl. 174-35.
Zulch, Donald I.; and Taylor, Hugh P., said Zulch assor to United States of America, Air Force. Radiometric monopulse receiver systems. 3,480,960, 11-25-69, Cl. 343-119.
Zuleeg, Rainer; and Braunstein, Morris, to Hughes Aircraft Company. Bistable two or three terminal double injection switching element. 3,454,847, 7-8-69, Cl. 317-235.
Zulinski, Edward J., to Ford Motor Company. Method of energizing gas tube light source. 3,424,946, 1-28-69, Cl. 315-246.
Zulueta, Javier, to Air Products and Chemicals, Inc. Hydrogenation process. 3,428,697, 2-18-69, Cl. 260-667.
Zumeta, Julio; and Case, Edward Murray, to Marlo Company, Inc., The. Packing material. 3,438,841, 4-15-69, Cl. 161-47.
Zumsteg, David B.: *See*—
Hubbard, David C.; and Zumsteg, David B.,3,431,538.
Zumsteg, Viktor, to Aktiengesellschaft Brown, Boveri & Cie. Brush arrangement for direct current dynamo electric machine. 3,450,915, 6-17-69, Cl. 310-239.
Zundel, Arthur Philip, to American Can Company. Full open end closure. 3,478,918, 11-18-69, Cl. 220-54.
Zunderdorp, Henricus J., to Shell Oil Company. One-point mooring system for loading or unloading fluids into or from a ship. 3,430,597, 3-4-69, Cl. 114-230.
Zunino, Mario; Corsi, Giannino; and Sammartino, Francesco, to Bombrini Parodi-Delfino S.p.A. Pre-established splintering shell. 3,425,350, 2-4-69, Cl. 102-67.
Zupa, Frank A., to Allied Control Company, Inc. Relay motor. 3,474,367, 10-21-69, Cl. 335-274.
Zupan, Norbert M.; and Curtis, Norman S., to Ransburg Electro-Coating Corporation. Electrostatic coating apparatus. 3,472,204, 10-14-69, Cl. 118-631.
Zupan, Norbert M.: *See*—
Probst, Richard O.; Thatcher, Charles R.; and Zupan, Norbert M.,3,439,649.
Zupez, John A.; and Hoyer, Llewellyn E., to Abex Corporation. Bearings. 3,423,137, 1-21-70, Cl. 308-87.
Zuppiger, Paul: *See*—
Bouladon, Gabriel; and Zuppiger, Paul,3,431,866.
Zuppiger, Pau, to Battelle Development Corporation, The. Varying-pitch chain-like arrangement to drive loads at variable speed. 3,462,002, 8-19-69, Cl. 198-110.
Zurawski, Leszek. Measuring instrument for determining the energy of shocks of vibrating machines, especially of jolt- molding machines. 3,470,731, 10-7-69, Cl. 73-11.
Zurbuchen, Jakob; and Bindler, Jakob, to Geigy, J. R. AG. Continuous dyeing of acrylic fiber material. 3,436,169, 4-1-69, Cl. 8-55.
Zurbuchen, Louis E.; and Goldammer, Freeland R., to National Cash Register Company, The. Programable function control mechanism for business machines. 3,431,401, 3-4-69, Cl. 235-6.
Zurcher, Kurt: *See*—
Streng, Alfred Josef; and Zurcher, Kurt,3,426,412.
Zurcher, Raymond W., 30% to Barnette, Dean E., and 30% to Preston, Richard T. Multicolored anti-collision beacon for indicating position and relative direction of vehicle travel. 3,436,729, 4-1-69, Cl. 340-87.
Zurek, James W.: *See*—
Hamouz, George J.; and Zurek, James W.,3,477,439.
Zurheide, George B.; and Harvey, Frank E., to PPG Industries, Inc. Handling fiber packages. 3,468,434, 9-23-69, Cl. 214-1.
Zurn Industries, Inc.: *See*—
Anderson, Norman J., 3,451,515.
Anderson, Norman J., 3,475,043.
Anderson, Norman J.; and Decker, John L., 3,480,123.
Schmid, John H., 3,422,853.
Schmid, John H., 3,467,003.
Zurovskis, Egon: *See*—
Squassoni, Gino F.; Hermanson, Herman A.; McCarroll, Alan F.; and Zurovskis, Egon,3,442,588.
Zurstadt, Herbert J. Bulb locking mechanism. 3,459,044, 8-5-69, Cl. 73-368.
Zusman, Vladimir Grigorievich: *See*—
Vasiliev, Vladimir Sergeevich; Zusman, Vladimir Grigorievich; Ratmirov, Valery Arkadievich; and Agursky, Melib Samuilovich,3,475,578.
Zussman, Hyman William; and Hausermann, Heinrich, to Geigy Chemical Corporation. Bis-triazinylaminostilbene compounds. 3,459,743, 8-5-69, Cl. 260-240.
Zust, Armin: *See*—
Schindler, Walter; Blattner, Hans; and Zust, Armin,3,464,991.
Zutaut, David W.: *See*—
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M.,3,433,618.
Wollensak, John C.; Zutaut, David W.; and Christenson, Kenneth M.,3,442,638.
Zutter, Hans: *See*—
Suter, Hans; and Zutter, Hans,3,435,066.
Suter, Hans; and Zutter, Hans,3,485,834.
Zutty, Nathan L.; Welch, Frank J.; Sullivan, Edward M.; Bryant, George M.; and Walter, Andrew T., to Union Carbide Corporation. Dyeable polypropylene compositions. 3,437,719, 4-8-69, Cl. 260-897.
Zutty, Nathan L.: *See*—
Potter, George H.; Whitworth, Clyde J., Jr.; and Zutty, Nathan L.,3,485,790.
Zuvich, Jerome J.: *See*—
Shapiro, Arthur; and Zuvich, Jerome J.,3,471,781.
Zvanut, Carl M., to General Electric Company. Method for making a coated silica fiber and product produced therefrom. 3,428,519, 2-18-69, Cl. 161-181.
Zviak, Charles: *See*—
Kalopissis, Gregoire; Zviak, Charles; and Viout, Andre,3,472,820.
Zwack, Robert R.: *See*—
Baugh, Robert A.; Ostrowski, John S.; and Zwack, Robert R.,3,459,690.
Zwanenburg, Goozzen, to U.S. Philips Corporation, mesne. High-frequency oven. 3,441,876, 4-29-69, Cl. 331-183.
Zwar, John: *See*—
Bruce, Michael Ian; Zwar, John; and Kefford, Noel Price,3,469,965.
Zwart, Bernardus Mulder, Jr.; Lukevics, Alfreds Karlis; and Wylie, Harold Franklin, to American Machine & Foundry Company. Dispenser. 3,428,001, 2-18-69, Cl. 107-14.
Zweegers, P. J., and Zonen Landbouwmachinefabriek N.V.: *See*—
Heesters, Johannes L.; Heesters, Laurentius C.; Heesters, Adrianus L.; and Zweegers, Petrus W., 3,469,378.
Zweegers, Petrus W.: *See*—
Heesters, Johannes L.; Heesters, Laurentius C.; Heesters, Adrianus L.; and Zweegers, Petrus W.,3,469,378.
Zweegers, Petrus Wilhelmus. Mowing machine. 3,443,369, 5-13-69, Cl. 56-6.
Zweidler, Reinhard; and Keller, Max, to Geigy Chemical Corporation. Combination optical brightener for terephthalic acid polyester fibers. 3,467,600, 9-16-69, Cl. 252-301.2
Zweifel, Charles H.; and Cooper, George W., to Pacific Coast Engineering Company. Rotatable and convertible lifting spreader. 3,436,113, 4-1-69, Cl. 294-67.
Zweifel, Charles H.; Crittenden, Geoffrey H.; and Young, Robert R., to Fruehauf Corporation, mesne. Bulk loader, unloader, and cargo container handling crane and method. 3,486,641, 12-30-69, Cl. 214-14.
Zweifel, Walter; Schneeberger, Fritz; and Marquetant, Alfred, to Swiss Aluminium Ltd. Electrolyte for the production of self-colored anodic oxide layers on aluminum and aluminum alloys. 3,425,918, 2-4-69, Cl. 204-58.
Zweig, Arnold: *See*—
Clausen, Victor H.; and Zweig, Arnold,3,445,313.
Clausen, Victor H.; Jarvi, Reino A.; and Zweig, Arnold,3,451,374.
Zwiacher, Wayne E.; Kaser, Louis D.; Johnson, Maurice V., Jr.; Fennell, Alfred H.; and Riddington, Fred W., to Sunkist Growers, Inc. Apparatus for boxing layers of articles such as fruit and the like. 3,465,495, 9-9-69, Cl. 53-164.
Zwick, Kurt, deceased0 (by Zwick, Margaretha; heiress), to Feinmechanik Weilheim GmbH. Tool grinder with inspection attachment. 3,439,457, 4-22-69, Cl. 51-165.
Zwick, Margaretha: *See*—
Zwick, Kurt,3,439,457.
Zwick, Rahmiel. Moving light source generator employing an electromagnetic field. 3,423,522, 1-21-69, Cl. 178-6.
Zwicker, Ludwig: *See*—
Baumgaertner, Wilhelm; Zwicker, Ludwig; and Szyszka, Manfred,3,439,647.
Zwicky, Everett E., Jr., to General Electric Company. Rotor stress controlled startup system. 3,446,224, 5-27-69, Cl. 137-26.
Zwiener, Rudolf: *See*—
Jager, Rudolf; Macho, Helmut; and Zwiener, Rudolf,3,430,665.
Zwiep, Theodore C.; and Weits, Ferdinand, to Prince Manufacturing Company. Deboning apparatus. 3,457,586, 7-29-69, Cl. 17-1.
Zwiep, Theodore C.; and Weits, Ferdinand, to Prince Manufacturing Company. Deboning method. 3,486,187, 12-30-69, Cl. 17-46.
Zwight, Daniel H., to McCabe-Powers Body Company. Aerial platform unit. 3,467,217, 9-16-69, Cl. 182-2.

Zwijsen, Wilhelmus Antonius Joseph Marie: *See*—
Greefkes, Johannes Anton; Riemens, Karel; Krul, Lendert Gerardus; and Zwijsen, Wilhelmus Antonius Joseph Marie,3,450,998.
van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie,3,453,553.
van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie,3,465,261.
Zwilling, Jean-Paul, to Societe Nationale des Petroles d'Aquitaine. Method for producing ammonium sulfate. 3,428,419, 2-18-69, Cl. 23-119.
Zwingenberger, Arno; and Hagel, Adolf, to Liebrandt, Karl. Warp knitting machine. 3,447,344, 6-3-69, Cl. 66-86.
Zwobada, Rene, to Societe Lignes Telegraphiques et Telephoniques. Magnetron anode blocks. 3,444,428, 5-13-69, Cl. 315-39.53
Zychal, Edward, to Elco Corporation. Hinge with conductors passing therethrough. 3,428,738, 2-18-69, Cl. 174-70.
Zydney, Herbert M.: *See*—
Mauzey, Peter T.; Schlanger, Gabriel G.; Votaw, Clarence J.; and Zydney, Herbert M.,3,427,590.
Mauzey, Peter T.; Votaw, Clarence J.; and Zydney, Herbert M.,3,427,588.
Robinson, Edgar R.; Votaw, Clarence J.; and Zydney, Herbert M.,3,427,589.
Zygmunt, Kazimierz Julian. Ground burrowing device. 3,474,873, 10-28-69, Cl. 175-19.
Zykoski, Robert P., to Intra Products, Inc. Tamperproof containers. 3,439,796, 4-22-69, Cl. 206-17.5
Zyma S.A.: *See*—
Courbat, Pierre J., 3,420,815.
Zyrotron Industries, Inc.: *See*—
Quinn, Frederic R., 3,445,086.
Quinn, Frederic R., 3,451,217.
Quinn, Frederic R., 3,471,088.
Quinn, Frederic R., 3,482,777.
Zysk, Edward D.; Osovitz, Eugene E.; and Stephans, Robert W., to Engelhard Industries, Inc. Noble metal thermocouple having base metal compensating leads. 3,451,859, 6-24-69, Cl. 136-227.
Zysk, Stephen; and MacKenzie, Burton T., Jr., to General Electric Company. Graded insulated cable. 3,433,891, 3-18-69, Cl. 174-120.
Zywietz, Walter; Gantke, Franz; Seiz, Rudolf; Lichtenbaumer, Hans-Gunther; and Neeff, Joachim, to Hoesch Aktiengesellschaft, and Bochumer Eisenhutte Heintzmann & Co. Lining structure for subterranean passages. 3,438,211, 4-15-69, Cl. 61-45.

1969

LIST OF REISSUE PATENTEES

AMP Inc.: *See*—
Broske, William F. Re. 26,685.
Evans, William R. Re. 26,646.
Shlesinger, Bernard E., Jr. Re. 26,721.

Abbott, Samuel, 50% to I. Kanner. Toilet tank filling valve mechanism. Re. 26,631, 7–15–69, Cl. 137—393.

Addressograph-Multigraph Corp.: *See*—
Wilde, Frederick G., and Booth. Re. 26,525.

Agfa Aktiengesellschaft: *See*—
Kiper, Gerd. Re. 26,681.

Ajem Laboratories, Inc.: *See*—
Fitzpatrick, Richard T., and Moore. Re. 26,657.
Fitzpatrick, Richard T., and Moore. Re. 26,661.

Albert, Robert J. Concrete containing porous aggregates. Re. 26,545, 3–11–69, Cl. 259—147.

Allen, Charles F. H., and D. M. Burness, to Eastman Kodak Co. Hardening of photographic gelatin layers. Re. 26,601, 6–10–69, Cl. 96—66.

Allgaier, Oskar, and O. Micko, to Allgaier Werke G.m.b.H. Separator for grain and the like. Re 26,555, 3–25–69, Cl. 74—600.

Allgaier Werke G.m.b.H.: *See*—
Allgaier, Oskar, and Micko. Re. 26,555.

Allington, Robert W., to Instrumentation Specialties Co. Compound optical filter providing a sharp cut-off. Re. 26,638, 7–29–69, Cl. 250—226.

Allis-Chalmers Mfg. Co.: *See*—
Neumann, Manfred E., and Han. Re. 26,622.

American Can Co.: *See*—
Ronci, Fernando M. Re. 26,524.

American Cyanamid Co.: *See*—
Remmers, Edward G., Sieger, and Barringer. Re. 26,541.
Rodgers, John L., and Millonis. Re. 26,565.

American Enka Corp.: *See*—
Antema, Geert, Kuipers, and Mulderink. Re. 26,613.

Amerline Corp.: *See*—
Hultgren, Arnold P. Re. 26,556.

Anderson, Clayton, & Co.: *See*—
Reddick, John A. Re. 26,649.

Anderson, Maurice J., to The Black Clawson Co. Paper machinery. Re. 26,528, 2–11–69, Cl. 242—58.3.

Anderson, Royal A., and E. N. Connoy, to Contour Saws, Inc. Method of making band saw blade. Re. 26,676, 9–30–69, Cl. 76—112.

Andex Corp.: *See*—
Cirrincione, Vincent W. Re. 26,716.

Anocut Engineering Co.: *See*—
Bender, Joseph L., and Williams. Re. 26,531.

Antema, Geert, T. Kuipers, and J. J. M. Mulderink, to American Enka Corp. High tenacity rayon yarn production. Re. 26,613, 6–24–69, Cl. 264—197.

Armco Steel Corp.: *See*—
Word, William W., Jr., and Walker. Re. 26,668.

Arsenault, James H.: *See*—
Kamborian, Jacob S., Vorn Berger, and Arsenault. Re. 26,738.

Austin, Clarence G., Jr., and H. R. Garrett, to Haskon, Inc. Carton forming mandrel. Re. 26,699, 10–28–69, Cl. 93—59.

Automotive Rubber Co., Inc.: *See*—
Millard, Phillip V. Re. 26,740.

Avco Broadcasting Corp.: *See*—
Rockwell, Ronald J. Re. 26,567.

Avco Corp.: *See*—
Batchelor, Clyde S., and Jensen. Re. 26,634.

Averill, Eugene F., and M. L. Kloostra, to Titus Mfg. Corp. Air distribution devices. Re. 26,723, 11–25–69, Cl. 98—40.

Avers, Daniel C.: *See*—
Knize, Elmer J. Re. 26,730.

Babcock, Henry N.: *See*—
Small, Augustus B., and Babcock. Re. 26,597.

Baker, Alan G., and J. S. Kamborian. Adhesive dispensing apparatus for shoe machines. Re. 26,559, 3–25–69, Cl. 118—2.

Baldwin, John A., Jr., to Bell Telephone Laboratories, Inc. Preference circuit employing magnetic elements. Re. 26,572, 4–29–69, Cl. 340—172.5.

Banas, Henry C., to McDonnell Douglass Corp. Emergency opening latch. Re. 26,711, 11–18–69, Cl. 292—21.

Barber-Colman Co.: *See*—
Schach, Albert W. Re. 26,690.

Barnes, Charles E. Wall form system and clamp. Re. 26,710, 11–4–69. Cl. 249—40.

Barringer, William C.: *See*—
Remmers, Edward G., Sieger, and Barringer. Re. 26,541.

Bartelt Engineering Co., Inc.: *See*—
Nutting, Robert G., Wagner, and Christensen. Re. 26,553.

Batchelor, Clyde S., and W. R. Jensen, to Avco Corp. Flame spray metallizing. Re. 26,634, 7–29–69, Cl. 117—105.

Battle Creek Packaging Machines, Inc.: *See*—
Holt, Ronald. Re. 26,689.
Willbrandt, Franklin M. Re. 26,615.

Beatenbough, Paul K., and R. W. Bishop, to General Motors Corp. Crossflow radiators. Re. 26,550, 3–25–69, Cl. 165—111.

Beatty, James R., P. W. Karper, and A. E. Juve, deceased (by E. Juve, executrix), to The B. F. Goodrich Co. Viscurometer. Re. 26,562, 4–15–69. Cl. 73—101.

Beeson, Clement T., Jr., deceased by M'Lou Beeson, administratrix, and W. T. Russell and W. E. Webb; said Russell and said Webb assors. to said M'Lou Beeson. Method and apparatus for breaking and separating eggs. Re. 26,543, 3–11–69. Cl. 146—221.

Beeson, M'Lou: *See*—
Beeson, Clement T., Jr. Re. 26,543.

Bell Telephone Laboratories, Inc.: *See*—
Baldwin, John A., Jr Re. 26,572.
Limiero, Albert D., McEowen, and Spencer. Re. 26,722.

Bender, Joseph L., and L. A. Williams, to Anocut Engineering Co. Electrolytic cavity sinking apparatus. Re. 26,531, 3–4–69, Cl. 204—224.

Bender, Louis, ½ to L. Miller. Portable and storable doll house or display. Re. 26,642, 8–12–69, Cl. 46—12.

Bendix Corp., The: *See*—
High, Charles N., and Howland. Re. 26,621.

Bishop, Robert W.: *See*—
Beatenbough, Paul K., and Bishop. Re. 26,550.

Black Clawson Co., The: *See*—
Anderson, Maurice J. Re. 26,528.

Blackburn, Alan B., to Hobart Bros. Co. Electronic frequency error detector. Re. 26,651, 8–26–69, Cl. 317—27.

Bletz, Howard W., to Therm-O-Disc, Inc. Narrow temperature differential thermostatic control. Re. 26,554, 3–25–69, Cl. 337—347.

Block, Aleck, and J. W. Purcell, to Merit Products, Inc. Abrasive device. Re. 26,552, 3–25–69, Cl. 51—358.

Bloom, Leon, M. Cohen, and S. N. Porter, to The National Cash Register Co. Memory arrangement for electronic data processing system. Re. 26,624, 7–1–69, Cl. 340—172.5.

Booth, Leslie G.: *See*—
Wilde, Frederick G., and Booth. Re. 26,525.

Bott, John A. Luggage rack. Re. 26,538, 3–4–69, Cl. 224—42.1.

Bott, John A. Luggage rack. Re. 26,539, 3–4–69, Cl. 224—42.1.

Bottoms, Clifford C. Rotary driving mechanism. Re. 26,745, 12–30–69, Cl. 64—23.

Briggs, Sidney, III, to The Thomson Corp. Longitudinal strip edge butt welding. Re. 26,726, 12–2–69, Cl. 219—102.

British Drug Houses Ltd., The: *See*—
Petrow, Vladimir, Thomas, and Stephenson. Re. 26,590.

Broske, William F., to AMP Inc. Explosively-formed electrical connection. Re. 26,685, 10–7–69, Cl. 174—94.

Burgarella, John P., and J. M. Topaz, to Polaroid Corp. Shutter timing apparatus. Re. 26,627, 7–15–69, Cl. 95—10.

Burness, Donald M.: *See*—
Allen, Charles F. H., and Burness. Re. 25,601.

Campbell, Paul D. Evaporator for ice machines. Re. 26,693, 10–14–69, Cl. 62—352.

Canadian Patents and Development Ltd.: *See*—
Visman, Jan. Re. 26,720.

Candela, Giovan B., to The Formsprag Co. Self-neutralizing manual override clutch. Re. 26,558, 3–25–69, Cl. 192—48.3.

Carando Machine Works: *See*—
McCoy, Thomas A. Re. 26,658.

Cargill, Norman A., and T. D. Reader, to Sperry Rand Corp. Electro-sonic fluid amplifier. Re. 26,605, 6–10–69, Cl. 137—81.5.

Carrier Corp.: *See*—
O'Hara, Arthur C. Re. 26,679.

Carroll, James W., and H. V. Smith, to Pennsalt Chemicals Corp. Aluminum cleaning compositions. Re. 26,609, 6–17–69, Cl. 252—137.

Cary, Howard B., to Hobart Bros. Co. Arc welding with A.C. power and cored electrode. Re. 26,549, 3–25–69, Cl. 219—74.

Castor, Edwin C., Jr. Cutting tool. Re. 26,544, 3–11–69, Cl. 29—103.

Celanese Corp.: *See*—
Dunlap, Donald T. Re. 26,604.

Cheney, Ralph G. Nebulizer. Re. 26,626, 7–15–69, Cl. 239—338.

Chevron Research Co.: *See*—
Ferm, Richard L., and Schmidt. Re. 26,675.

Christensen, Kenneth K.: *See*—
Nutting, Robert G., Wagner, and Christensen. Re. 26,553.

Cirrincione, Vincent W., to Andex Corp. Filter retaining device. Re. 26,716, 11–18–69, Cl. 99—312.

Clark, Ford R. Separation apparatus. Re. 26,727, 12–2–69, Cl. 241—101.

Claussen, Gerard E., to Hobart Bros. Co. Welding electrodes. Re. 26,611, 6–24–69, Cl. 219—146.

Coe Mfg. Co., The: *See*—
Skoog, Per O. Re. 26,653.
Cohen, Morris: *See*—
Bloom, Leon, Cohen, and Porter. Re. 26,624.
Colburn, Arthur P.: *See*—
Hansen, Arne C., Uebelherr, and Colburn. Re. 26,694.
Coleman Instruments Corp.: *See*—
Staunton, John J. J. Re. 26,617.
Combustion Engineering, Inc.: *See*—
Romanos, Nicholas D. Re. 26,526.
Connerat, Edwin B. Corner support for containers. Re. 26,640, 8–12–69, Cl. 248—119.
Connoy, Eugene N.: *See*—
Anderson, Royal A., and Connoy. Re. 26,676.
Container Corp. of America: *See*—
Cummings, Jan G., and Maskell. Re. 26,592.
Contour Saws, Inc.: *See*—
Anderson, Royal A., and Connoy. Re. 26,676.
Cookerly, Jack C., and G. R. Hall. Tone generation system. Re. 26,533, 3–4–69, Cl. 84—1.16.
Cooper Roller Bearings Co. Ltd.: *See*—
Kay, Sydney. Re. 26,591.
Corey, Philip D., to General Electric Co. Frequency converter. Re. 26,641, 8–12–69, Cl. 321—4.
Crumley, Richard L.: *See*—
Lee, Winston F. Z., Fisher, and Crumley. Re. 26,654.
Cummings, Jan G., and R. N. Maskell, to Container Corp. of America. Container for frozen product. Re. 26,592, 5–27–69, Cl. 229—14.
Currier, John A., to Scott & Williams, Inc. Methods and machines for stocking production. Re. 26,580, 5–13–69, Cl. 66—26.
Currier, John A., to Scott & Williams, Inc. Knitted products. Re. 26,581, 5–13–69, Cl. 66—187.
Curtis 1000, Inc.: *See*—
Mudd, Frank X., Jr. Re. 26,532.
Cutler-Hammer, Inc.: *See*—
Hults, Harold W. Re. 26,686.
Spink, Robert W. Re. 26,701.
Spink, Robert W. Re. 26,708.
Cutler, Leonard S., and D. L. Hammond, to Hewlett-Packard Co. Crystal resonators. Re. 26,707, 11–4–69, Cl. 310—9.1.
Daimler-Benz Aktiengesellschaft: *See*—
Naumann, Fritz. Re. 26,578.
Dale Electronics, Inc.: *See*—
Tomaro, Patrick M., Jr. Re. 26,616.
Daleo, Frank G., to Lear Siegler, Inc. Altimeter for producing data referenced to a predetermined pressure. Re. 26,696, 10–14–69, Cl. 73—387.
D'Amato, Michael A. Variable displacement pump. Re. 26,519, 1–14–69, Cl. 103—162.
Dawson, Orlie W. Golf cart. Re. 26,536, 3–4–69, Cl. 280—41.
De Koster, Heinz A., to Seggos Industries, Inc. Transducer having a magneto-resistive bridge circuit. Re. 26,610, 6–24–69, Cl. 340—174.1.
Demarco, Richard E.: *See*—
Gibbons, Ambrose J., Jr., and Demarco. Re. 26,639.
Denison-Johnson, Inc.: *See*—
Fowler, Alvin W. Re. 26,551.
Devienne, André: *See*—
Mirtain, Henri, and Devienne. Re. 26,713.
Dodge, Peter W. Gymnastic apparatus. Re. 26,606, 6–10–69, Cl. 272—62.
Donetsky Nauchno-Issledovatelsky Ugolny Institute: *See*—
Fanin, Alexey J., and Kochetkov. Re. 26,683.
Dow Corning Corp.: *See*—
McVannel, Donald L. Re. 26,697.
Draghi, James A., to M. H. Rhodes, Inc. Center pushbutton timer. Re. 26,747, 12–30–69, Cl. 74—3.54.
Dudek, Elmer D.: *See*—
Huchinson, Elmer R. Re. 26,717.
Dunham, Robert W.: *See*—
Jorgensen, George N., Stanback, and Dunham. Re. 26,737.
Dunlap, Donald T., to Celanese Corp. Cigarette filter plug and process and apparatus for making same. Re. 26,604, 6–10–69, Cl. 131—267.
Dunlop Co. Ltd., The: *See*—
Robinson, Peter M. Re. 26,731.
Dunn, James T. E., and R. J. Sloat. Method and mechanism for lubricating the shaft elements of a pump rotor for pumping an abradant-containing liquid. Re. 26,570, 4–29–69, Cl. 184—1.
Du Pont de Nemours, E. I., and Co.: *See*—
Gadecki, Filon A., and Speck. Re. 26,614.
Hermann, Edward C., and Snyder. Re. 26,705.
Dwyer, Richard J., Jr., to Kimberly-Clark Corp. Bulk package for cut size paper. Re. 26,663, 9–9–69, Cl. 206—57.
East, Robert D., to General Gas Light Co. Liquid supply system and pump control therefor. Re. 26,678, 10–7–69, Cl. 103—25.
Eastman Kodak Co.: *See*—
Allen, Charles F. H., and Burness. Re. 26,601.
Hayden, James F. Re. 26,729.
Elco Corp.: *See*—
Ruehlemann, Herbert E. Re. 26,692.
Elektrokemisk A/S.: *See*—
Terjesen, Sven G., and Ve. Re. 26,645.
Elliot Laboratories, Inc.: *See*—
Ilg, John C. Re. 26,674.
Erikson, Carl F., to Sundstrand Corp. Tool adapter with retention means. Re. 26,623, 7–1–69, Cl. 90—11.
Essex International, Inc.: *See*—
Stoi, Walter, and Thomson. Re. 26,648.
Esso Research & Engineering Co.: *See*—
Small, Augustus B., and Babcock. Re. 26,597.
Waddell, Mathis T., Powers, and Saunders. Re. 26,579.
Evans, William R., to AMP Inc. Blanked strip from which female contacts are to be formed for electrical connecting system. Re. 26,646, 8–19–69, Cl. 29—190.
Fairbanks, Gordon J., and K. Staiger, to Stewart-Warner Corp. Automotive booster heater. Re. 26,599, 6–3–69, Cl. 237—2.
Fanin, Alexey J., and V. D. Kochetkov, to Donetsky Nauchno-Issledovatelsky Ugolny Institute. Method for drying the insulation of electrical cables laid in a damp atmosphere, in particular cables of mine networks having insulated neutral and an arrangement for the realization of such method. Re. 26,683, 10–7–69, Cl. 317—18.
Fast Load Control, Inc.: *See*—
Park, Robert H. Re. 26,571.
Ferm, Richard L., and R. J. Schmidt, to Chevron Research Co. Pneumatic compaction of asphalt compositions. Re. 26,675, 9–30–69, Cl. 94—22.
Fessenden, Peter J., to Springfield Wire, Inc. Cold terminal electric resistance heating cable. Re. 26,522, 2–11–69, Cl. 219—528.
Fetzer, Wallace G., to Oglebay Norton Co. Method for determining sound focus for mining blast. Re. 26,598, 6–3–69, Cl. 102—23.
Finger, Joseph S., to Johns-Manville Corp. Process of forming a reinforced resin panel. Re. 26,652, 8–26–69, Cl. 264—261.
Fisher, Harry W.: *See*—
Lee, Winston F. Z., Fisher, and Crumley. Re. 26,654.
Fitzpatrick, Richard T., and R. Moore, Jr., to Ajem Laboratories, Inc. Leak testing method and apparatus. Re. 26,657, 9–9–69, Cl. 73—40.
Fitzpatrick, Richard T., and R. Moore, Jr., to Ajem Laboratories, Inc. Leak testing apparatus. Re. 26,661, 9–9–69, Cl. 73—40.
Fooshe, Wesley K., Jr.: *See*—
Holliday, Walter T., Lynch, and Fooshe. Re. 26,515.
Forbes, Sydney, to PPG Industries, Inc. Electrolytic bipolar alkali chlorate cell. Re. 26,547, 3–25–69, Cl. 204—268.
Forbes, Sydney, to PPG Industries, Inc. Method of operating an alkali chlorate cell. Re. 26,644, 8–19–69, Cl. 204—95.
Forcier, Edward C., to Sprague Electric Co. Testing device. Re. 26,732, 12–9–69, Cl. 346—33.
Formsprag Co.: *See*—
Candela, Giovan B. Re. 26,558.
Kalns, Ilmars. Re. 26,540.
Fowler, Alvin W., to Denison-Johnson, Inc. Line control means for a spinning reel. Re. 26,551, 3–25–69, Cl. 242—84.2.
Foxboro Co., The: *See*—
Nazareth, Alfred, Jr. Re. 26,573.
Fram Corp.: *See*—
Thornton, Donald T. Re. 26,706.
Franseth, Paul: *See*—
Thompson, Earl A. Re. 26,628.
GAF Corp.: *See*—
Hall, Walter J. Re. 26,619.
Gadecki, Filon A., and S. B. Speck, to E. I. du Pont de Nemours and Co. Homopolyamide of recurring bis(paraaminocyclohexyl) methane azelamide units. Re. 26,614, 6–24–69, Cl. 260—78.
Garrett, Howard R.: *See*—
Austin, Clarence G., Jr., and Garrett. Re. 26,699.
General Electric Co.: *See*—
Corey, Philip D. Re. 26,641.
Kurt, Howard D., and Gould. Re. 26,576.
Peaslee, Lawrence R. Re. 26,630.
General Gas Light Co.: *See*—
East, Robert D. Re. 26,678.
General Motors Corp.: *See*—
Beatenbough, Paul K., and Bishop. Re. 26,550.
Wentworth, Joseph T. Re. 26,530.
General Steel Products, Inc.: *See*—
Rogers, Walter C., Jr. Re. 26,671.
General Tire & Rubber Co., The: *See*—
Welch, John A. Re. 26,738.
Gibbons, Ambrose J., Jr., and R. E. Demarco, to SCM Corp. Triorganostannoxy zirconium trialcoholates and derivatives. Re. 26,639, 8–12–69, Cl. 260—408.
Glacier Ware, Inc.: *See*—
Paquin, Roger L. Re. 26,724.
Globe-Union Inc.: *See*—
Hansen, Arne C., Uebelherr, and Colburn. Re. 26,694.
Goodrich, B. F., Co., The: *See*—
Beatty, James R., Karper, and Juve. Re. 26,562.
Gould, Herbert R.: *See*—
Kurt, Howard D., and Gould. Re. 26,576.
Guzzardo, Raymond W., to E. M. Melahn, d.b.a. Northern Illinois Machine Co. Container fabricating and orienting apparatus. Re. 26,656, 9–2–69, Cl. 93—36.
Haines, Robert M.: *See*—
Klass, Donald L., Haines, McEuen, and Martinek. Re. 26,586.
Hall, George R.: *See*—
Cookerly, Jack C., and Hall. Re. 26,533.
Hall, Lester F. Suspended pressurized gas operated paper cone projector. Re. 26,662, 9–9–69, Cl. 124—11.
Hall, Walter J., to GAF Corp. Slide projector using a box or circular slide magazine. Re. 26,619, 7–1–69, Cl. 353—117.
Hamilton Cosco, Inc.: *See*—
Sellars, James F., Jr., and King. Re. 26,520.

Hammond, Donald L.: *See*—
Cutler, Leonard S., and Hammond. Re. 26,707.
Han, Bui C.: *See*—
Neumann, Manfred E., and Han. Re. 26,622.
Hansen, Arne C., C. W. Uebelherr, and A. P. Colburn, to Globe-Union Inc. Electronic component and method of manufacture thereof. Re. 26,694, 10–14–69, Cl. 313—325.
Harivel, Jean P. R., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Sealed alkaline cells and electrolytes therefor. Re. 26,660, 9–9–69, Cl. 136—6.
Harwood, Leopold A., to RCA Corp. Linear frequency modulation system including an oscillating transistor, an internal capacity of which is varied in accordance with a modulating signal. Re. 26,715, 11–18–69, Cl. 332—19.
Haskon, Inc.: *See*—
Austin, Clarence G., Jr., and Garrett. Re. 26,699.
Haug, Edward W. Tool for forming toothed parts. Re. 26,569, 4–29–69, Cl. 72—76.
Hayden, James F., to Eastman Kodak Co. Automatic take-up cartridge. Re. 26,729, 12–2–69, Cl. 242—71.1.
Hayes, Edward J., to Kelsey-Hayes Co. Support means for a sliding caliper type disk brake. Re. 26,746, 12–30–69, Cl. 188—73.
Henderson, Homer I. Drilling bit. Re. 26,669, 9–30–69, Cl. 175—330.
Hermann, Edward C., and J. A. Snyder, to E. I. du Pont de Nemours and Co. *a*-Substituted-1-adamantylmethyl penicillins. Re. 26,705, 11–4–69, Cl. 260—239.1.
Hewlett-Packard Co.: *See*—
Cutler, Leonard S., and Hammond. Re. 26,707.
High, Charles N., and G. R. Howland, to The Bendix Corp. Velocity sensor. Re. 26,621, 7–1–69, Cl. 73—502.
Hitachi, Ltd.: *See*—
Miura, Tanetoshi, and Koshikawa. Re. 26,600.
Noumi, Makoto. Re. 26,664.
Hobart Bros. Co.: *See*—
Blackburn, Alan B. Re. 26,651.
Cary, Howard B. Re. 26,549..
Claussen, Gerard E. Re. 26,611.
Holland, Harvison C. Braking system. Re. 26,643, 8–12–69, Cl. 303—6.
Holliday, Walter T., T. R. Lynch, and W. K. Fooshe, Jr., to Riegel Textile Corp. Diaper with hydrophobic yarns. Re. 26,515, 1–14–69, Cl. 128—284.
Holt, Ronald, to Battle Creek Packaging Machines, Inc. Machine for wrapping articles and loaves of sliced bread in limp film wrapper sheets. Re. 26,689, 10–14–69, Cl. 53—209.
Honeywell Inc.: *See*—
Loveland, Roger S. Re. 26,743.
Newbold, William F. Re. 26,516.
Hopkins, William C. N. Change-speed mechanism. Re. 26,608, 6–17–69, Cl. 180—33.
Houston, Lewis C., to St. Joe Paper Co. Container. Re. 26,557, 3–25–69, Cl. 229—15.
Howland, George R.: *See*—
High, Charles N., and Howland. Re. 26,621.
Huchinson, Elmer R., ½ to E. D. Dudek. Conduit saw. Re. 26,717, 11–18–69, Cl. 30—90.3.
Hughes Aircraft Co.: *See*—
Rosen, Harold A. Re. 26,680.
Hultgren, Arnold P., to Amerline Corp. Plastic reel with aluminum insert hub. Re. 26,556, 3–25–69, Cl. 242—71.8.
Hults, Harold W., to Cutler-Hammer, Inc. Positive action switches with improved sliding contact supporting rail structure. Re. 26,636, 7–29–69, Cl. 200—16.
Hupp Corp.: *See*—
Jobes, Harry W. Re. 26,596.
Ideal Industries, Inc.: *See*—
Kelly, Albert A. Re. 26,687.
Ilg, John C., to Elliot Laboratories, Inc. Disposable plastic bag. Re. 26,674, 9–30–69, Cl. 150—2.1.
Inoue, Kiyoshi. Ion control system for electrochemical machining. Re. 26,620, 7–1–67. Cl. 204—224.
Instrumentation Specialties Co.: *See*—
Allington, Robert W. Re. 26,638.
International Harvester Co.: *See*—
Kampert, Keith W., and Zimmerman. Re. 26,635.
Jensen, Erik H., to Westinghouse Electric Corp. Air conditioning systems with reheat coils. Re. 26,695, 10–14–69, Cl. 62—173.
Jensen, Warren R.: *See*—
Batchelor, Clyde S., and Jensen. Re. 26,634.
Jobes, Harry W., to Hupp Corp. Heat pump controls. Re. 26,596, 6–3–69, Cl. 165—12.
Johns-Manville Corp.: *See*—
Finger, Joseph S. Re. 26,652.
Vander Linden, Carl R., and Riede. Re. 26,709.
Jorgensen, George N., H. L. Stanback, and R. W. Dunham, to Square D Co. Electrical panelboard. Re. 26,737, 12–9–69, Cl. 317—119.
Kalns, Ilmars, to Formsprag Co. Bi-directional no-back drive device. Re. 26,540, 3–11–69, Cl. 192—8.
Kamborian, Jacob S.: *See*—
Baker, Alan G., and Kamborian. Re. 26,559.
Kamborian, Jacob S. Method of lasting a shoe. Re. 26,700, 10–28–69, Cl. 12—145.
Kamborian, Jacob S., W. A. Vorn Berger, and J. H. Arsenault: said Arsenault and said Vorn Berger assors. to said Kamborian. Pulling over and lasting of shoes. Re. 26,738, 12–23–69, Cl. 12—145.
Kampert, Keith W., and R. F. Zimmerman, to International Harvester Co. Articulated four-wheel drive earthworking vehicle. Re. 26,635, 7–29–69, Cl. 214—132.
Kanner, Irving: *See*—
Abbott, Samuel. Re. 26,631.
Karper, Paul W.: *See*—
Beatty, James R., Karper, and Juve. Re. 26,562.
Kay, Sydney, deceased (by S. P. Kay, executor), to Cooper Roller Bearings Co. Ltd. Split roller bearings. Re. 26,591, 5–27–69, Cl. 308—236.
Kay, Sydney P.: *See*—
Kay, Sydney. Re. 26,591.
Kelley, Leon O. Tractor mounted cable laying device. Re. 26,718, 11–18–69, Cl. 61—72.6.
Kelly, Albert A., to Ideal Industries, Inc. Wire stripper with reversed collet and blade. Re. 26,687, 10–7–69, Cl. 29—427.
Kelsey-Hayes Co.: *See*—
Hayes, Edward J. Re. 26,746.
Kimberly-Clark Corp.: *See*—
Dwyer, Richard J., Jr. Re. 26,663.
King, Reynold C.: *See*—
Sellars, James F., Jr., and King. Re. 26,520.
Kiper, Gerd, to Agfa Aktiengesellschaft. Light controlled shutter. Re. 26,681, 10–7–69, Cl. 95—10.
Klass, Donald L., R. M. Haines, R. B. McEuen, and T. W. Martinek, to Union Oil Co. of California. Electrokinetic weighing apparatus. Re. 26,586, 5–27–69, Cl. 177—1.
Kloostra, Marvin L.: *See*—
Averill, Eugene F., and Kloostra. Re. 26,723.
Knize, Elmer J., ½ to D. C. Avers. Can container and the lid therefor. Re. 26,730, 12–2–69, Cl. 220—42.
Knolle, Ernst G. Articulated train systems. Re. 26,673, 9–30–69, Cl. 104—20.
Kochetkov, Vladimir D.: *See*—
Fanin, Alexey J., and Kochetkov. Re. 26,683.
Koehring Co.: *See*—
Tennis, Francis H. Re. 26,523.
Komarnitsky, Rostislaw S., to North American Rockwell Corp. Method of making taper leaf springs. Re. 26,714, 11–18–69, Cl. 29—173.
Koshikawa, Tsuneji: *See*—
Miura, Tanetoshi, and Koshikawa. Re. 26,600.
Kossoy, Michael W.: *See*—
Poarch, Arthur E., and Kossoy. Re. 26,561.
Kuipers, Tietso: *See*—
Antema, Geert, Kuipers, and Mulderink. Re. 26,613.
Kurt, Howard D., and H. R. Gould, to General Electric Co. Busway distribution system for supplying a plurality of electric discharge devices through ballast devices. Re. 26,576, 4–29–69, Cl. 315—177.
Laskow, Frederick H. Gift wrapping. Re. 26,742, 12–23–69, Cl. 229—87.
Lauer, Rodney F., to Westinghouse Electric Corp. Air conditioning system including reheat coils. Re. 26,593, 5–27–69, Cl. 62—160.
Layton, Jack D., to Layton Mfg. Co. Mechanism for attaching trailing and lead vehicles. Re. 26,566, 4–29–69, Cl. 280—460.
Layton Mfg. Co.: *See*—
Layton, Jack D. Re. 26,566.
Lear Siegler, Inc.: *See*—
Daleo, Frank G. Re. 26,696.
Volk, Sidney. Re. 26,575.
Lee, Winston F. Z., H. W. Fisher, and R. L. Crumley, to Rockwell Mfg. Co. Fluid meters. Re. 26,654, 8–26–69, Cl. 73—229.
Lemelson, Jerome H. Composite filaments. Re. 26,688, 10–14–69, Cl. 15—209.
Lewis, Karl R. Revolver type firearm with cylinder crane. Re. 26,534, 3–4–69, Cl. 42—62.
Libman, Max L.: *See*—
Rabinow, Jacob. Re. 26,527.
Lichtenberger, Horst W., and P. E. Loveday, to Union Carbide Corp. Method and apparatus for dispensing varporizable liquids. Re. 26,529, 3–4–69, Cl. 141—5.
Limiero, Albert D., J. R. McEowen, and J. A. Spencer, to Bell Telephone Laboratories, Inc. Key telephone control systems. Re. 26,722, 11–25–69, Cl. 179—99.
Lockheed Aircraft Corp.: *See*—
Stucki, Frank F. Re. 26,739.
Vaughn, Robeert L. Re. 26,637.
Loveday, Paul E.: *See*—
Lichtenberger, Horst W., and Loveday. Re. 26,529.
Loveland, Roger S., to Honeywell Inc. Thermocouple supporting means. Re. 26,743, 12–23–69, Cl. 136—217.
Loveland, Winton, and S. Warshaw, to The Loveshaw Corp. Carton clamping and guiding means in an automatic carton closing machine. Re. 26,650, 8–26–69, Cl. 53—75.
Loveshaw Corp., The: *See*—
Loveland, Winton, and Warshaw. Re. 26,650.
Lynch, Thomas R.: *See*—
Holliday, Walter T., Lynch, and Fooshe. Re. 26,515.
Marateck, Harold: *See*—
Marateck, Jack M. and H. Re. 26,666.
Marateck, Jack M. and H. Fixture with drawers. Re. 26,666. 9–9–69, Cl. 312—343.
Marcovitch, Isaac and J.; said I. Marcovitch, assor. to said J. Marcovitch. Machine for roll-forming an annular workpiece including a separate rotatable core. Re. 26,594, 5–27–69, Cl. 72—80.
Marcovitch, Jacob: *See*—
Marcovitch, Isaac and J. Re. 26,594.
Marine Geophysical Services Corp.: *See*—
Schempf, Edward G. Re. 26,748.

Martinek, Thomas W.: *See*—
Klass, Donald L., Haines, McEuen, and Martinek. Re. 26,586.

Maskell, Richard N.: *See*—
Cummings, Jan G., and Maskell. Re. 26,592.

Mason, Thomas F., to Potatomaster Corp. Potato peeling and cutting machine. Re. 26,684, 10–7–69. Cl. 146—37.

Mast-Foos Mfg. Co., Inc.: *See*—
Musgrave, Orly. Re. 26,633.

Mau, William L., and E. A. Nagy, to The National Rolled Thread Die Co. Thread and other form rolling dies. Re. 26,518, 1–14–69, Cl. 72—71.

Mazzanti, Giorgio: *See*—
Natta, Giulio, Pino, and Mazzanti. Re. 26,517.

McCarthy, John J., to Norco Inc. Releasable mechanical coupling. Re. 26,703, 11–4–69, Cl. 24—230.

McCoy, Thomas A., to Carando Machine Works. Welding unit for lap-welding machines. Re. 26,658, 9–9–69, Cl. 219—64.

McDonnell Douglas Corp.: *See*—
Banas, Henry C. Re. 26,711.

McEowen, James R.: *See*—
Limiero, Albert D., McEowen, and Spencer. Re. 26,722.

McEuen, Robert B.: *See*—
Klass, Donald L., Haines, McEuen, and Martinek. Re. 26,586.

McVannel, Donald L., to Dow Corning Corp. Organosilicon polymerizing catalyst. Re. 26,697, 10–28–69, Cl. 260—465.

Melahn, E. M.: *See*—
Guzzardo, Raymond W. Re. 26,656.

Mellott, Hayes R.: *See*—
Mellott, John S. and H. R. Re. 26,535.

Mellott, John S. and H. R. Live deck and loader assembly. Re. 26,535, 3–4–69, Cl. 214—91.

Meredith, Diven. Mass transfer unit using spaced flexible materials, and method of construction. Re. 26,560, 4–15–69, Cl. 261—30.

Merit Products, Inc.: *See*—
Block, Aleck, and Purcell. Re. 26,552.

Micko, Oswald: *See*—
Allgaier, Oskar, and Micko. Re. 26,555.

Millonis, Jerry P.: *See*—
Rodgers, John L., and Millonis. Re. 26,565.

Millard, Phillip V., to Automotive Rubber Co., Inc. Method of making sealing members. Re. 26,740, 12–23–69, Cl. 264—274.

Miller, Leo: *See*—
Bender, Louis. Re. 26,642.

Ministry of Defense, The State of Israel: *See*—
Popper, Jakhin B. Re. 26,542.

Minnesota Mining and Mfg. Co.: *See*—
Sorensen, David P., and Shepard. Re. 26,719.

Mirtain, Henri, and A. Devienne, to Uniroyal-Englebert France. Asymmetric pneumatic tires. Re. 26,713, 11–18–69, Cl. 152—353.

Miura, Tanetoshi, and T. Koshikawa, to Hitachi, Ltd. Apparatus for observing vocal cord wave. Re. 26,600, 6–3–69, Cl. 128—2.

Mole, Cecil J., to Westinghouse Electric Corp. Thermoelectric apparatus. Re. 26,612, 6–24–69, Cl. 62—3.

Mole, Cecil J., and W. M. Wepfer, to Westinghouse Electric Corp. Thermoelectric apparatus. Re. 26,698, 10–28–69, Cl. 62—3.

Mole, Cecil J., and W. M. Wepfer, to Westinghouse Electric Corp. Thermoelectric heat pumping apparatus. Re. 26,728, 12–2–69, Cl. 62—3.

Montecatini Edison S.p.A.: *See*—
Natta, Giulio, Pino, and Mazzanti. Re. 26,517.

Moore, Francis J., to Schlage Lock Co. Simplified construction for door latch operating mechanism. Re. 26,564, 4–15–69, Cl. 292—167.

Moore, Ray, Jr.: *See*—
Fitzpatrick, Richard T., and Moore. Re. 26,657.
Fitzpatrick, Richard T., and Moore. Re. 26,661.

Mudd, Frank X., Jr., to Curtis 1000, Inc. Mailing envelopes. Re. 26,532, 3–4–69, Cl. 282—25.

Murov, Issac I., M. J. Schloss, and F. V. Panno. Oral treatment appliance. Re. 26,589, 5–27–69, Cl. 15—22.

Musgrave, Orly, to Mast-Foos Mfg. Co., Inc. Multi-speed transmission. Re. 26,633, 7–29–69, Cl. 74—375.

Myers, Robert R. Swimming pool cleaning means. Re. 26,741, 12–23–69, Cl. 15—1.7.

Nagy, Ernest A.: *See*—
Mau, William L., and Nagy. Re. 26,518.

National Aeronautics and Space Administration: *See*—
Thomas, Numa E. Re. 26,548.

National Cash Register Co., The: *See*—
Bloom, Leon, Cohen, and Porter. Re. 26,624.

National Rolled Thread Die Co., The: *See*—
Mau, William L., and Nagy. Re. 26,518.

Natta, Giulio, P. Pino, and G. Mazzanti, to Montecatini Edison S.p.A. Process for polymerizing certain unsaturated hydrocarbons in the vapor phase and in contact with a stereospecific catalyst. Re. 26,517, 1–14–69, Cl. 260—93.7.

Naumann, Fritz, to Daimler-Benz Aktiengesellschaft. Bearing structure. Re. 26,578, 5–13–69, Cl. 74—801.

Nazareth, Alfred, Jr., to The Foxboro Co. Industrial process control apparatus. Re. 26,573, 4–29–69, Cl. 330—10.

Neallis, Raymond N. Plastic zipper. Re. 26,629, 7–15–69, Cl. 24—205.12.

Neely, Samuel M. Floodlighting of athletic fields. Re. 26,588, 5–27–69, Cl. 240—3.

Neumann, Manfred E., and B. C. Han, to Allis-Chalmers Mfg. Co. Synchronous motor control circuit. Re. 26,622, 7–1–69, Cl. 318—176.

Newbold, William F., to Honeywell Inc. Electronic controller. Re. 26,516, 1–14–69, Cl. 323—22.

Nolin, Roger J.: *See*—
Russell, Fred J., and Nolin. Re. 26,677.

Norco Inc.: *See*—
McCarthy, John J. Re. 26,703.

North American Rockwell Corp.: *See*—
Komarnitsky, Rostislaw S. Re. 26,714.

Northern Illinois Machine Co.: *See*—
Guzzardo, Raymond W. Re. 26,656.

Norton, Roy, to The Wear-Flex Corp. Fabric load lifting sling. Re. 26,704, 11–4–69, Cl. 294—74.

Norwood, Donald W. Photoelectric device for comparing different light intensities characteristic of a photographic scene. Re. 26,632, 7–22–69, Cl. 356—222.

Noumi, Makoto, to Hitachi, Ltd. Brushless motors wherein commutation is controlled by an impedance responsive to rotor movement. Re. 26,664, 9–9–69, Cl. 318—138.

Nutting, Robert G., R. C. Wagner, and K. K. Christensen, to Bartelt Engineering Co., Inc. Packaging machine. Re. 26,553, 3–25–69, Cl. 53—180.

O'Brien Mfg. Corp.: *See*—
Siegal, Burton L. Re. 26,659.

Oglebay Norton Co.: *See*—
Fetzer, Wallace G. Re. 26,598.

O'Hara, Arthur C., to Carrier Corp. Air conditioning units. Re. 26,679, 10–7–69, Cl. 165—123.

Ohio Brass Co., The: *See*—
Taylor, John J. Re. 26,602.

Olivetti, Ing. C., & C., S.p.A.: *See*—
Perotto, Pier G. Re. 26,744.

PPG Industries, Inc.: *See*—
Forbes, Sydney. Re. 26,547.
Forbes, Sydney. Re. 26,644.

Paltier Corp., The: *See*—
Skubic, Leroy F. Re. 26,618.

Panno, Francis V.: *See*—
Murov, Isaac I., Schloss, and Panno. Re. 26,589.

Paquin, Roger L., to Glacier Ware, Inc. Refrigerated tumbler. Re. 26,724, 11–25–69, Cl. 62—457.

Park, Donald M., by The Seeburg Corp. Automatic repetitive rhythm instrument timing circuitry. Re. 26,521, 2–11–69, Cl. 84—1.03.

Park, Robert H., to Fast Load Control, Inc. Means for maintaining stability of power transmission systems. Re. 26,571, 4–29–69, Cl. 307—86.

Peaslee, Lawrence R., to General Electric Co. Variable speed constant frequency system. Re. 26,630, 7–15–69, Cl. 321—69.

Pennsalt Chemicals Corp.: *See*—
Carroll, James W., and Smith. Re. 26,609.

Perotto, Pier G., to Ing. C. Olivetti & C., S.p.A. Method and apparatus for reading characters. Re. 26,744, 12–23–69, Cl. 340—146.3.

Petrow, Vladimir, A. J. Thomas, and O. Stephenson, to The British Drug Houses Ltd. Compound of betaine and chloral and method for preparing same. Re. 26,590, 5–27–69, Cl. 260—501.13.

Pino, Piero: *See*—
Natta, Giulio, Pino, and Mazzanti. Re. 26,517.

Poarch, Arthur E., and M. W. Kossoy, to Western Dairy Products Inc. Method of making meat curing salt compositions. Re. 26,561, 4–15–69, Cl. 99—222.

Polaroid Corp.: *See*—
Burgarella, John P., and Topaz. Re. 26,627.
Wareham, Richard R. Re. 26,595.

Popper, Jakhin B., to Ministry of Defense, The State of Israel. Device for limiting the speed of rotation of a body. Re. 26,542, 3–11–69, Cl. 188—185.

Porter, Sigmund N.: *See*—
Bloom, Leon, Cohen, and Porter. Re. 26,624.

Potatomaster Corp.: *See*—
Mason, Thomas F. Re. 26,684.

Powell, Fred H., to Reynolds Metals Co. Metal rolling system. Re. 26,665, 9–9–69, Cl. 18—2.

Powers, John M.: *See*—
Waddell, Mathis T., Powers, and Saunders. Re. 26,579.

Purcell, Joseph W.: *See*—
Block, Aleck, and Purcell. Re. 26,552.

Quadramics, Inc.: *See*—
Rasmussen, Reed. Re. 26,546.

RCA Corp.: *See*—
Harwood, Leopold A. Re. 26,715.
Stark, John, Jr. Re. 26,686.

Rabinow, Jacob, 10% to M. L. Libman. Machine tools. Re. 26,527, 2–11–69, Cl. 116—115.5.

Rasmussen, Reed, to Quadramics, Inc. Loading and unloading winch system for traction vehicles. Re. 26,546, 3–25–69, Cl. 214—517.

Reader, Trevor D.: *See*—
Cargill, Norman A., and Reader. Re. 26,605.

Reddick, John A., to Clayton Anderson & Co. Linter cleaner. Re. 26,649, 8–26–69, Cl. 19—202.

Remmers, Edward G., G. M. Sieger, and W. C. Barringer, to American Cyanamid Co. Stable aqueous glycol solution of tetracycline aluminum calcium gluconate complex having a pH about 7.5 to 9. Re. 26,541, 3–11–69, Cl. 424—227.

Reynolds Metals Co.: *See*—
Powell, Fred H. Re. 26,665.
Whitaker, William C., and Thomas. Re. 26,712.

Rhodes, M. H., Inc.: *See*—
Draghi, James A. Re. 26,747.
Richards, Norman D., to U.S. Philips Corp. Superconductive storage circuits. Re. 26,702, 11–4–69, Cl. 340—173.1.
Riede, Raymond G.: *See*—
Vander Linden, Carl R., and Riede. Re. 26,709.
Riegel Textile Corp.: *See*—
Holliday. Walter T., Lynch, and Fooshe. Re. 26,515.
Robinson, Peter M., to The Dunlop Co. Ltd. Belting. Re. 26,731, 12–2–69, Cl. 161—57.
Rockwell Mfg. Co.: *See*—
Lee, Winston F. Z., Fisher, and Crumley. Re. 26,654.
Rockwell, Ronald J., to Avco Broadcasting Corp. Amplifier of the transformer-output type with regenerative feedback network for reducing low frequency distortion. Re. 26,567, 4–29–69, Cl. 330—82.
Rodgers, John L., and J. P. Millonis, to American Cyanamid Co. 2-ortho-hydroxy-phenyl-4-(3H)-quinazolinones. Re. 26,-565, 4–29–69, Cl. 260—251.
Roger, Raymond W.: *See*—
Wilson, Robert G., and Roger. Re. 26,672.
Rogers, Walter C., Jr., to General Steel Products, Inc. Sofa bed. Re. 26,671, 9–30–69, Cl. 5—13.
Romanos, Nicholas D., to Combustion Engineering, Inc. Fluid operated steam generator having steam operated feedwater preheater. Re. 26,526, 2–11–69, Cl. 122—34.
Ronci, Fernando M., to American Can Co. Pull tab can opener. Re. 26,524, 2–11–69, Cl. 220—53.
Rosen, Harold A., to Hughes Aircraft Co. Apparatus providing a rotating directive antenna field pattern associated with a spinning body. Re. 26,680, 10–7–69, Cl. 343—100.
Rotary Pen Corp.: *See*—
Von Arx, Marcel J. Re. 26,583.
Ruehlemann, Herbert E., to Elco Corp. Contact for direct reception of printed circuit board. Re. 26,692, 10–14–69, Cl. 339—176.
Russell, Fred J., and R. J. Nolin; said Nolin, assor. to said Russell. Mortise lock deadlocking latch and deadbolt block. Re. 26,677, 10–7–69, Cl. 292—34.
Russell, Willard T.: *See*—
Besson, Clement T., Jr. Re. 26543.
SCM Corp.: *See*—
Gibbons, Ambrose J., Jr., and Demarco. Re. 26,639.
St. Joe Paper Co.: *See*—
Houston, Lewis C. Re. 26,557.
Sarbo, Edgar G., to Wayne-Gossard Corp. Foot cover and method of manufacturing the same. Re. 26,667, 9–23–68, Cl. 66—171.
Sardee Corp., The: *See*—
Sarovich, Steve. Re. 26,568.
Sarovich, Steve, to The Sardee Corp. Upward magnetic can conveyor. Re. 26,568, 4–29–69, Cl. 198—41.
Saunders, Rhoderick K.: *See*—
Waddell, Mathis T., Powers, and Saunders. Re. 26,579.
Schach, Albert W., to Barber-Colman Co. Static pressure regulator for air flow controllers. Re. 26,690, 10–14–69, Cl. 137—489.
Schempf, Edward G., to Marine Geophysical Services Corp. Mechanical imploder and method for generating under water seismic signals. Re. 26,748, 12–30–69, Cl. 181—.5.
Schering Corp.: *See*—
Sherlock, Margaret H., and Sperber. Re. 26,655.
Schlage Lock Co.: *See*—
Moore, Francis J. Re. 26,564.
Schloss, Morton J.: *See*—
Murov, Isaac I., Schloss, and Panno. Re. 26,589.
Schlumberger Technology Corp.: *See*—
Tompkins, David R. Re. 26,537.
Schmidt, Robert J.: *See*—
Ferm, Richard L., and Schmidt. Re. 26,675.
Schmit, Roger A., to Teletype Corp. Code transmitter-distributor with [mechanical] means for varying duration of stop pulse. Re. 26,577, 4–29–69, Cl. 178—53.1.
Schweizer, Gottfried: *See*—
Smolka, Thomas G., and Schweizer. Re. 26,670.
Scott & Williams, Inc.: *See*—
Currier, John A. Re. 26,580.
Currier, John A. Re. 26,581.
Seeburg Corp., The: *See*—
Park, Donald M. Re. 26,521.
Seggos Industries, Inc.: *See*—
De Koster, Heinz A. Re. 26,610.
Sellars, James F., Jr., and R. C. King, to Hamilton Cosco, Inc. Training chair. Re. 26,520, 1–21–69, Cl. 4—134.
Sellner, John W. Combined reclining exercising and massaging device. Re. 26,725, 11–25–69, Cl. 128—57.
Settle, Haynes L.: *See*—
Terry, Trent B. Re. 26,682.
Seuthe, Eberhard. Device to produce steam for mobile and stationary toys. Re. 26,563, 4–15–69, Cl. 46—9.
Sharp, Everett H. Constant velocity universal joint. Re. 26,-691, 10–14–69, Cl. 64—21.
Shell Oil Co.: *See*—
Wittenwyler, Clifford V. Re. 26,625.
Shepard, Joseph W.: *See*—
Sorensen, David P., and Shepard. Re. 26,719.
Sherlock, Margaret H., and N. Sperber, to Schering Corp. Certain anilino nicotinic acid derivatives. Re. 26,655, 8–26–69, Cl. 260—295.5.
Shlesinger, Bernard E., Jr., to AMP Inc. One piece plugboard plug connector. Re. 26,721, 11–25–69, Cl. 339—217.
Siegal, Burton L., to O'Brien Mfg. Corp. Hydraulically-operated sewer cleaning machine. Re. 26,659, 9–9–69, Cl. 15—104.3.
Sieger, George M.: *See*—
Remmers, Edward G., Sieger, and Barringer. Re. 26,541.
Skoog, Per O., to The Coe Mfg. Co. Method and means for patching assembled plywood panels. Re. 26,653, 8–19–69, Cl. 144—310.
Skubic, Leroy F., to The Paltier Corp. Pallet tiering frame with wedge joint. Re. 26,618, 6–24–69, Cl. 108—53.
Sloat, Robert J.: *See*—
Dunn, James T. E., and Sloat. Re. 26,570.
Small, Augustus B., and H. N. Babcock, to Esso Research & Engineering Co. Cementitious systems. Re. 26,597, 6–3–69, Cl. 106—89.
Smith, Harold V.: *See*—
Carroll, James W., and Smith. Re. 26,609.
Smolka, Thomas G., and G. Schweizer, to Weiner Metallwarenfabrik Smolka & Co. Safety binding. Re. 26,670, 9–30–69, Cl. 280—11.35.
Snyder, Jack A.: *See*—
Hermann, Edward C., and Snyder. Re. 26,705.
Societe des Accumulateurs Fixes et de Traction (Societe Anonyme): *See*—
Harivel, Jean P. R. Re. 26,660.
Sorensen, David P., and J. W. Shepard, to Minnesota Mining and Mfg. Co. Print-out process and image reproduction sheet therefor. Re. 26,719, 11–18–69, Cl. 96—63.
Southwestern Engineering Co.: *See*—
Swallow, Douglas M. Re. 26,736.
Spaulding, Carl P., to Giannini Controls Corp. Digital coding and translating system. Re. 26,607, 6–17–69. Cl. 340—347.
Speck, Stanley B.: *See*—
Gadecki, Filon A., and Speck. Re. 26,614.
Spence, Peter M. Separable fastener. Re. 26,584, 5–27–69, Cl. 24—230.
Sperber, Nathan: *See*—
Sherlock, Margaret H., and Sperber. Re. 26,655.
Sperry Rand Corp.: *See*—
Cargill, Norman. A., and Reader. Re. 26,605.
Spencer, Jonathan A.: *See*—
Limiero, Albert D., McEowen, and Spencer. Re. 26,722.
Spink, Robert W. to Cutler-Hammer, Inc. Controlled-rectifier systems. Re. 26,701, 10–28–69, Cl. 321—5.
Spink, Robert W., to Cutler-Hammer, Inc. Plural-phase controlled rectifier systems insensitive to line phase rotation. Re. 26,708, 11–4–69, Cl. 321—5.
Sprague Electric Co.: *See*—
Forcier, Edward C. Re. 26,732.
Springfield Wire, Inc.: *See*—
Fessenden, Peter J. Re. 26,522.
Square D Co.: *See*—
Jorgensen, George N., Stanback, and Dunham. Re. 26,737.
Staiger, Kurt: *See*—
Fairbanks, Gordon J., and Staiger. Re. 26,599.
Stanback, Harris I.: *See*—
Jorgensen, George N., Stanback, and Dunham. Re. 26,737.
Stark, John, Jr., to RCA Corp. Automatic frequency control. Re. 26,686, 10–7–69, Cl. 178—7.3.
Staunton, John J. J., to Coleman Instruments Corp. Optical prism unit and manufacture thereof. Re. 26,617, 6–24–69, Cl. 350—168.
Stephenson, Oliver: *See*—
Petrow, Vladimir, Thomas, and Stephenson. Re. 26,590.
Stewart-Warner Corp.: *See*—
Fairbanks, Gordon J., and Staiger. Re. 26,599.
Stoi, Walter, and R. Thomson, to Essex International, Inc. Automatic cancelling turn signal with an intermediate signal position which is manually operable and releasable. Re. 26,648, 8–19–69, Cl. 200—61.34.
Strange, Booth B., and M. J. Wells, to Western Geophysical Co. of America. Method and apparatus for signal compositing and recording. Re. 26,574, 4–29–69, Cl. 340—15.5.
Struthers Scientific and International Corp.: *See*—
Svanoe, Hans. Re. 26,585.
Stucki, Frank F., to Lockheed Aircraft Corp. Ferrimagnetic pressure transducer. Re. 26,739, 12–23–69, Cl. 73—398.
Sundstrand Corp.: *See*—
Erikson, Carl F. Re. 26,623.
Svanoe, Hans, to Struthers Scientific and International Corp. Concentration of phosphoric acid. Re. 26,585, 5–27–69, Cl. 23—165.
Swallow, Douglas M., to Southwestern Engineering Co. Self-cleaning screen structure for vibratory separators. Re. 26,736, 12–9–69, Cl. 209—332.
Taylor, John J., to The Ohio Brass Co. Vibration damper for transmission line conductors. Re. 26,602. 6–10–69, Cl. 174—42.
Teletype Corp.: *See*—
Schmit, Roger A. Re. 26,577.
Tennis, Francis H., to Koehring Co. Pilot operated control valve mechanism. Re. 26,523, 2–11–69, Cl. 91—454.
Terjesen, Sven G., and A. Ve, to Elektrokemisk A/S. Method of recovering fluorine, aluminum and sodium compounds from electrolytic furnace wastes. Re. 26,645, 8–19–69, Cl. 23—88.
Terry, Trent B., ½ to H. L. Settle. Men's and boy's pants. Re. 26,682, 10–7–69. Cl. 2—224.
Therm-O-Disc, Inc.: *See*—
Bletz, Howard W. Re. 26,554.
Thomas, Alan J.: *See*—
Petrow, Vladimir, Thomas, and Stephenson. Re. 26,590.
Thomas, Joseph Y.: *See*—
Whitaker, William C., and Thomas. Re. 26,712.

Thomas, Numa E., deceased, by the National Aeronautics and Space Administration. Optical communications system. Re. 26,548, 3–25–69, Cl. 250—199.
Tompkins, David R., to Schlumberger Technology Corp. Mobile inspection device for testing metallic members for longitudinal and transverse discontinuities. Re. 26,537, 3–4–69, Cl. 324—37.
Thompson, Earl A., deceased; by E. F. Thompson, P. Franseth, and M. M. Wild, joint executors, to Earl A. Thompson Mfg. Co. Mechanico-hydraulic power and control unit. Re. 26,628, 7–15–69, Cl. 60—54.5.
Thompson, Earl A., Mfg. Co.: *See*—
Thompson, Earl A. Re. 26,628.
Thompson, Elizabeth F.: *See*—
Thompson, Earl A. Re. 26,628.
Thompson, Oliver H. Milk handling system. Re. 26,587, 5–27–69, Cl. 186—1.
Thomson Corp., The: *See*—
Briggs, Sidney, III. Re. 26,726.
Thomson, Robert: *See*—
Stoi, Walter, and Thomson. Re. 26,648.
Thornton, Donald T., to Fram Corp. Radiator water filter. Re. 26,706, 11–4–69, Cl. 210—198.
Titus Mfg. Corp.: *See*—
Averill, Eugene F., and Kloostra. Re. 26,723.
Tomaro, Patrick M., Jr., to Dale Electronics, Inc. Torque actuated reversible gear reduction assembly. Re. 26,616, 6–24–69, Cl. 74—354.
Topaz, Jeremy M.: *See*—
Burgarella, John P., and Topaz. Re. 26,627.
Uebelherr, Carl W.: *See*—
Hansen, Arne C., Uebelherr, and Colburn. Re. 26,694.
Union Carbide Corp.: *See*—
Lichtenberger, Horst W., and Loveday. Re. 26,529.
Union Oil Co. of California: *See*—
Klass, Donald L., Haines, McEuen, and Martinek. Re. 26,586.
Uniroyal-Englebert France: *See*—
Mirtain, Henri, and Devienne. Re. 26,713.
U.S. Philips Corp.: *See*—
Richards, Norman D. Re. 26,702.
Van Bael, Joseph. Plastering splash apron. Re. 26,582, 5–27–69, Cl. 52—99.
Vander Linden, Carl R., and R. G. Riede, by Johns-Manville Corp. High flow rate perlite filter aids. Re. 26,709, 11–4–69. Cl. 210—500.
Vaughn, Robert L., to Lockheed Aircraft Corp. Rotary cutter and method. Re. 26,637, 7–29–69, Cl. 29—105.
Ve, Arnfinn: *See*—
Terjesen, Sven G., and Ve. Re. 26,645.
Vibber, Alfred W. Apparatus for twisting and plying strands. Re. 26,734, 12–9–69, Cl. 57—58.3.
Vibber, Alfred W. Apparatus for plying strands. Re. 26,735, 12–9–69, Cl. 57—58.3.
Visman, Jan, to Canadian Patents and Development Ltd. Apparatus for specific gravity separation of solid particles. Re. 26,720, 11–25–69, Cl. 209—211.
Volk, Sidney, to Lear Siegler, Inc. Hot air furnace. Re. 26,575, 4–29–69, Cl. 126—110.
Von Arx, Marcel J., to Rotary Pen Corp. Writing device. Re. 26,583, 5–27–69, Cl. 401—31.
Von Seggern, Ernest A. and H. E. Excess air cycle engine and air supply means and method of operating same. Re. 26,603, 6–10–69, Cl. 123—75.
Von Seggern, Henry E.: *See*—
Von Seggern, Ernest A. and H. E. Re. 26,603.
Vorn Berger, Walter A.: *See*—
Kamborian, Jacob S., Vorn Berger, and Arsenault. Re. 26,738.
Waddell, Mathis T., J. M. Powers, and R. K. Saunders, to Esso Research and Engineering Co. Heater. Re. 26,579, 5–13–69, Cl. 126—59.5.
Wagner, Richard C.: *See*—
Nutting, Robert G., Wagner, and Christensen. Re. 26,553.
Walker, Michael A.: *See*—
Word, William W., Jr., and Walker. Re. 26,668.
Wareham, Richard R., to Polaroid Corp. Self-developing camera. Re. 26,595, 6–3–69, Cl. 95—13.
Warshaw, Saul: *See*—
Loveland, Winton, and Warshaw. Re. 26,650.
Wayne-Gossard Corp.: *See*—
Sarbo, Edgar G. Re. 26,667.
Wear-Flex Corp., The: *See*—
Norton, Roy. Re. 26,704.
Weiner Metallwarenfabrik Smolka & Co.: *See*—
Smolka, Thomas G., and Schweizer. Re. 26,670.
Welch, John A., to The General Tire & Rubber Co. Elastomeric expansion joint. Re. 26,733, 12–9–69, Cl. 94—18.
Wells, Melvin J.: *See*—
Strange, Booth B., and Wells. Re. 26,574.
Welty, Frank. Apparatus for controlling the rate of flow of liquids. Re. 26,647, 8–19–69, Cl. 137—504.
Wentworth, Joseph T., to General Motors Corp. Vapor recovery system. Re. 26,530, 3–4–69, Cl. 123—136.
Wepfer, William M.: *See*—
Mole, Cecil J., and Wepfer. Re. 26,698.
Mole, Cecil J., and Wepfer. Re. 26,728.
Western Dairy Products Inc.: *See*—
Poarch, Arthur E., and Kossoy. Re. 26,561.
Western Geophysical Co. of America: *See*—
Strange, Booth B., and Wells. Re. 26,574.
Westinghouse Electric Corp.: *See*—
Jensen, Erik H. Re. 26,695.
Lauer, Rodney F. Re. 26,593.
Mole, Cecil J. Re. 26,612.
Mole, Cecil J., and Wepfer. Re. 26,698.
Mole, Cecil J., and Wepfer. Re. 26,728.
Whitaker, William C., and J. Y. Thomas, to Reynolds Metals Co. Cigarette package construction or the like. Re. 26,712, 11–18–69, Cl. 229—51.
Wild, Michael M.: *See*—
Thompson, Earl A. Re. 26,628.
Wilde, Frederick G., and L. G. Booth, to Addressograph-Multigraph Corp. Diazo reproducing machine. Re. 26,525, 2–11–69. Cl. 95—94.
Willbrandt, Franklin M., to Battle Creek Packaging Machines, Inc. Method of wrapping articles or packages. Re. 26,615, 6–24–69. Cl. 53—31.
Williams, Lynn A.: *See*—
Bender, Joseph L., and Williams. Re. 26,531.
Wilson, Robert G., and R. W. Roger. Deep fat pressure cooker. Re. 26,672, 9–30–69, Cl. 99—336.
Wittenwyler, Clifford V., to Shell Oil Co. Process for treating earth formations. Re. 26,625, 7–15–69, Cl. 166—295.
Word, William W., Jr., and M. A. Walker, to Armco Steel Corp. Method and apparatus for installing flow lines and the like in underwater well installations. Re. 26,668, 9–30–69, Cl. 166—.5.
Zimmerman, Richard F.: *See*—
Kampert, Keith W., and Zimmerman. Re. 26,635.

1969

LIST OF DESIGN PATENTEES

AAI Corp.: *See*—
Critcher, John L. 214,496.
AB Hakanssons Industries: *See*—
Wahlforss, Henrik C. W. 214,318.
A.J. Industries Corp.: *See*—
Zagwyn, Anthony T. 215,081.
AMP Inc.: *See*—
Bricker, Harry C., Jr. 214,273.
Eberle, John E., and Hoffman. 214,364.
Evans, William R. 214,488.
Pautrie, Riccardo. 214,272.
Snyder, Clair W., Jr. 213,561.
Warner, James E. 214,792.
AZA Scientific, Inc.: *See*—
Van Koevering, Barry D. 213,725.
Abbott Laboratories: *See*—
Katerndahl, Dean R. 214,972.
Abbott, Thomas P. Explosion shield. 213,549, 3–18–69, Cl. D14—6.
Abdo, Joseph T., to The Rucker Co. Aircraft ground support cart. 214,369, 6–10–69, Cl. D14—3.
Abend, Chester J., and J. M. Gaska, to SCM Corp. Product display stand. 214,542, 6–24–69, Cl. D80—9.
Aberle, Albert K.: *See*—
Arthur, Richard J., Aberle, Carswell, and Brugger. 214,200.
Ackerman, Martin S., to Perfect Film & Chemical Corp. Bracket for attaching stroboscopic flash attachment. 214,097, 5–6–69, Cl. D61—1.
Ackerman, Martin S., and G. Hardy, to Perfect Film & Chemical Corp. Camera. 214,100, 5–6–69, Cl. D61—1.
Ackerman, Martin S., and G. Hardy, to Perfect Film & Chemical Corp. Cartridge loading motion picture projector. 215,891, 11–4–69, Cl. D61—1.
Acme-Hamilton Mfg. Corp.: *See*—
Bauman, Joseph F. 215,002.
Acton, Daniel D.: *See*—
Hart, Alexander W., and Acton. 214,159.
Adams, Charles R., O. R. Burbage, Jr., and L. W. Stancil, Jr. Combination oyster roaster and grill. 214,110, 5–6–69, Cl. D81—10.
Adams, E. A., & Son, Inc.: *See*—
Kettell, Philip E. 214,642.
Adams, Gerald M.: *See*—
Clark, Clayton H., and Adams. 215,037.
Adams Rite Mfg. Co.: *See*—
Brubaker, Curtis M. 215,600.
Adell International Inc.: *See*—
Adell, Robert. 213,394.
Adell, Robert, to Adell International Inc. Tissue dispenser. 213,394, 2–25–69, Cl. D52—2.
Adickes, Cecil F., and G. W. Schmidt, to Wham-O Mfg. Co. Toy oven. 215,165, 9–9–69, Cl. D34—15.
Adickes, Cecil F., and G. W. Schmidt, to Columbia Broadcasting System, Inc. Toy oven. 215,244, 9–16–69, Cl. D34—15.
Adler, Kurt S. Christmas tree ornament. 216,126, 11–25–69, Cl. D29—1.
Adler, Kurt S. Christmas tree ornament. 216,127, 11–25–69, Cl. D29—1.
Adler, Kurt S. Christmas tree ornament. 216,128, 11–25–69, Cl. D29—1.
Adler, Marvin, to United States Mineral Products Co. Combined beverage server and cover therefor. 215,749, 10–28–69, Cl. D44—21.
Adolph, Peter A. Toy soccer goal. 213,573, 3–18–69, Cl. D34—5.
Adolph, Peter A. Base for supporting a toy figure or the like. 214,801, 7–29–69, Cl. D34—15.
Advertime Corp.: *See*—
De Zinno, Theophile L. 213,940.
Advertising Display Corp.: *See*—
Marks, Philip. 215,772.
Aeon Industries, Inc.: *See*—
Carpenter, Joseph D., and Golding. 213,550.
Golding, Fred E. 213,579.
Aereon Corp.: *See*—
Kukon, John P., Fitzpatrick, and Bock. 213,510.
Aerospace Research, Inc.: *See*—
Brefka, Paul E. 214,909.
Afico S.A.: *See*—
Morgan, Fred. 215,703.
Aghababian, Madeleine, to U.S. Industries, Inc. Combined tape recorder-radio with built-in clock or similar article. 215,243, 9–16–69, Cl. D56—4.
Agonic Engineering, Inc.: *See*—
Jones, Richard F. 214,862.
Aherne, John A.: *See*—
MacLachlan, William B., Aherne, and Morgan. 215,649.
Ahlgren, Axel W., to Amerock Corp. Sash lock. 215,080, 9–2–69, Cl. D8—111.
Aiello, Salvatore F.: *See*—
Thomas, Vitas T., Lovdahl, Lazzeroni, Aiello, and Renquist. 213,803.
Aigner, Etienne, to The Villager, Inc. Shoe ornament. 213,086 1–7–69, Cl. D2—315.
Aigner, Etienne, to The Villager, Inc. Handbag closure clasp. 213,158, 1–7–69, Cl. D87—2.
Aigner, Etienne, to The Villager, Inc. Buckle. 213,419, 3–4–69, Cl. D2—432.
Aigner, Etienne, to The Villager, Inc. Handbag closure clasp. 213,482, 3–4–69, Cl. D87—2.
Aigner, Etienne, to The Villager, Inc. Handbag closure clasp. 213,483, 3–4–69, Cl. D87—2.
Aigner, Etienne, to The Villager, Inc. Handbag closure clasp. 213,484, 3–4–69, Cl. D87—2.
Aigner, Etienne, to Villager Industries, Inc. Shoe ornament. 214,155, 5–20–69, Cl. D2—315.
Aiger, Etienne, to Villager Industries, Inc. Pull for a handbag. 214,156, 5–20–69, Cl. D8—159.
Aigner, Etienne, to The Villager, Inc. Handbag closure clasp. 214,989, 8–19–69, Cl. D8—125.
Aigner, Etienne, to The Villager, Inc. Buckle. 216,072, 11–25–69, Cl. D2—427.
Ainslie, Dianne B. Remote control unit for a motion picture projector. 213,320, 2–18–69, Cl. D26—13.
Air Materials Corp.: *See*—
Israel, Edmund M. 216,391.
Air Reduction Co., Inc.: *See*—
Wolpert, Lionel, and Tampa. 215,711.
Air Traffic Control System, Inc.: *See*—
Criswell, John H. 213,181.
Ajax Hardware Mfg. Corp.: *See*—
Holmes, Frank A., and McCain. 214,867.
Holmes, Frank A., and McCain. 214,868.
Holmes, Frank A., and McCain. 214,869.
Holmes, Frank A., and McCain. 215,538.
Holmes, Frank A., and McCain. 215,815.
Holmes, Frank A., and McCain. 215,816.
Holmes, Frank A., and McCain. 216,077.
Aktiebolaget Electrolux: *See*—
Domstedt, Johan A., and Karlsson. 216,155.
Aktiebolaget Ifoverken: *See*—
Bernadotte, Sigvard. 213,279.
Alaska, St. Barth. Magnifier. 214,956, 8–12–69, Cl. D57—1.
Alaska, St. Barth. Hand magnifier. 215,031, 8–19–69. Cl. D57—1.
Alaska, St. Barth. Hand magnifier. 215,622, 10–14–69, Cl. D57—1.
Albrecht, Leonard N.: *See*—
Dunlop, Richard C., and Albrecht. 213,781.
Albrecht, Leonard N., to Tamar Electronics Industries, Inc. Combined traffic signal and support bracket therefor. 215,508, 9–30–69, Cl. D72—1.
Aldape, John. Wire can holder or similar article. 214,686, 7–15–69, Cl. D49—32.
Aldape, John. Tubular can holder or similar article. 215,346, 9–23–69, Cl. D49—35.
Alexander, James, to Scandia Packaging Machinery Co. Packaging container. 216,295, 12–16–69, Cl. D9—191.
Algoren, Lionel C., to Keystone Consolidated Industries, Inc. Receptacle plate or the like. 213,879, 4–22–69, Cl. D26—13.
All-Power Mfg. Co.: *See*—
Sheeter, Walter R. 213,556.
All-Rite Pen Co., Inc.: *See*—
Di Spirito, Gino. 215,042.
Alladin Plastics, Inc.: *See*—
Avedon, Harvey R. 214,848.
Allan, William T. Stereo phonograph unit or similar article. 213,226, 1–14–69, Cl. D56—4.
Allen, Dorothy K., to F. H. Noble & Co. Trophy base. 215,729, 10–28–69, Cl. D29—28.
Allen, Ernest L. Vial rack. 215,431, 9–30–69, Cl. D16—1.
Allen, Gifford H. Toothbrush holder. 215,738, 10–28–69, Cl. D33—28.
Allen Organ Co.: *See*—
Peters, Robert H. 214,401.
Allen, Perry E. Automobile gasoline door guard. 213,184, 1–14–69, Cl. D14—6.
Allen, Perry E. Automobile gasoline door guard. 213,185, 1–14–69, Cl. D14—6.
Allen, Perry E. Automobile gasoline door guard. 213,186, 1–14–69, Cl. D14—6.

327-709 O-LT - 71 - pt. 1 - 114

Allen, Perry E. Automobile gasoline door guard. 218,187, 1–14–69, Cl. D14—6.
Allen, Perry E. Automobile gasoline door guard. 213,188, 1–14–69, Cl. D14—6.
Allen, Robert M., to The Goodyear Tire & Rubber Co. Tire. 214,229, 5–20–69, Cl. D90—20.
Allen, Robert Y.: *See*—
Klamer, Reuben B., Allen, and Shaw. 214,384.
Klamer, Reuben B., Allen, and Shaw. 214,513.
Klamer, Reuben B., Allen, and Shaw. 214,514.
Klamer, Reuben B., Allen, and Shaw. 214,515.
Klamer, Reuben B., Allen, and Shaw. 214,516.
Klamer, Reuben B., Allen, and Shaw. 214,517.
Allen, Thomas E. Anti-thumb sucking device. 213,154, 1–7–69, Cl. D83—1.
Allied Chemical Corp.: *See*—
Josephsen, Roy C., Wellmann, and Stevens. 214,429.
Allied Ironfounders Ltd.: *See*—
Cocks, Alexander C. 215,537.
Alligood, Ira J., Jr. Industrial vacuum cleaning unit. 214,083, 5–6–69, Cl. D49—11.
Allison, Kenneth C. Rotary switch stator body. 214,627, 7–8–69, Cl. D26—13.
Allison, Kenneth C. Rotary switch stator unit. 215,443, 9–30–69, Cl. D26—13.
Allred, Arthur L. Combined coin tray and bill clip. 214,589, 7–1–69, Cl. D52—4.
Allwork, Frank S.: *See*—
Thornley, Joseph, and Allwork. 213,334.
Alsco, Inc.: *See*—
Nash, John J. 215,723.
Alter, Hobard L., to Coast Calamaran Corp. Sailing catamaran. 214,766, 7–22–69, Cl. D71—1.
Aluminum Co. of America: *See*—
Smith, James D. 216,003.
Smith, James D. 216,004.
Smith, James D. 216,005.
Amburgey, James M.: *See*—
Koenigsberg, Victor, and Amburgey. 213,544.
Amdal, Gagfinn O., to Keystone Consolidated Industries, Inc. Handle or the like. 216,385, 12–30–69, Cl. D8—166.
Ament, Myron J., to The Wallace-Murray Corp. Modular bathroom unit. 213,442, 3–4–69, Cl. D23—49.
American Can Co.: *See*—
Bielicki, John J., and Lodding. 213,768.
Goff, Donald H. 213,426.
Skowronski, George V. 216,296.
Walsh, Patrick J., and Heidtke. 215,272.
Zundel, Arthur P. 215,923.
American Computer and Communications Co.: *See*—
Hutchinson, Richard C. 215,764.
American Concrete Products Co.: *See*—
Greene, Nat. 214,449.
American Cyanamid Co.: *See*—
Buccino, Gaetano S., and Granowitz. 213,323.
American Desk Mfg. Co.: *See*—
Barnes, Raymond C. 215,009.
Barnes, Raymond C. 215,010.
Barnes, Raymond C. 215,011.
Barnes, Raymond C. 215,308.
Barnes, Raymond C. 215,309.
American Flange & Manufacturing Co., Inc.: *See*—
Wolf Edward M., and Koll. 214,379.
American Home Products Corp.: *See*—
Cleeland, Raymond T. 215,182.
Connor, Dorothy J. 216,148.
Kelly, Roger L. 213,348.
Kingsley, Jerrold L. 213,846.
Thaler, Arnold. 214,204.
Thaler, Arnold. 214,205.
Thaler, Arnold. 214,206.
Thaler, Arnold. 215,181.
Weeber, Marion. 214,677.
Weeber, Marion. 214,678.
Weeber, Marion. 214,679.
Weeber, Marion. 215,240.
Weeber, Marion. 215,241.
Weeber, Marion. 215,759.
Weeber, Marion. 215,996.
American Hospital Supply Corp.: *See*—
Beich, Frank R., and Seeley. 214,090.
Beich, Frank R., and Seeley. 215,021.
Folkman, Bern D. 213,933.
Folkman, Bern D. 213,934.
Gilson, Channing W. 215,566.
St. Amand, Elmer F. 214,973.
St. Amand, Elmer F. 214,974.
St. Amand, Elmer F. 214,975.
Williams, Cole C. 213,479.
Zimmon, Harold, and Strom. 214,482.
American Machine & Foundry Co.: *See*—
Hill, Loran R. 214,329.
Hill, Loran R. 214,927.
Podall, Robert. 216,017.
American Mfg. Co.: *See*—
Robinson, Harry C. 215,770.
American Optical Corp.: *See*—
Armbruster, John T. 214,698.
Shindler, Anthony. 214,344.
American Pacing Equipment: *See*—
Griffith, Thomas B. 215,652.
American Safety Equipment Corp.: *See*—
Kamata, Eitaro. 216,071.
Krengel, William, and Jensen. 215,195.
American Seating Co.: *See*—
Barecki, Chester J. 213,685.
Barecki, Chester J. 214,244.
Barecki, Chester J. 215,944.
American Science and Engineering, Inc.: *See*—
Annis, Martin, Davidson, La Selva, and St. Martin. 213,805.
American Standard, Inc.: *See*—
Austin, Marilyn K. 213,623.
Hutten, Peter. 213,808.
Kaiser, Jack N. 216,119.
Nagel, Robert W. 215,215.
Niemann, James E., and Young. 216,120.
Owings, Joseph W. 215,291.
Phillips, Gerard D., Jr. 215,715.
Robare, E. Peter, 213,318.
Ruggles, Kay L. 213,958.
Ruggles, Kay L., and Van Skyhawk. 215,717.
American Sterilizer Co.: *See*—
Brendgord, Thomas, and Whrenberg. 213,139.
American Systems, Inc.: *See*—
Hughes, Willard A., and Kusche. 216,061.
Amero, Norman G.: *See*—
Jacobs, Julian R., Brown, and Amero. 215,531.
Schwall, Chester F., Jr., Rode and Amero. 215,524.
Amerock Corp.: *See*—
Ahlgren, Axel W. 215,080.
Clayton, La Verne E. 213,432.
Clayton, La Verne E. 213,433.
Clayton, La Verne E. 214,029.
Clayton, La Verne E. 214,030.
Clayton, La Verne E. 214,714.
Clayton, La Verne E. 215,082.
Preston, Bruce A. 214,063.
Stone, Leland G. 213,431.
Ames, Charles R., to Eagle-Picker Industries, Inc. Light for special effects, including entertainment, stage lighting, and advertising. 215,115, 9–2–69, Cl. D48—20.
Ammco Tools, Inc.: *See*—
Bogaerts, Leo C. 214,092.
Ampex Corp.: *See*—
Larson, Orville W. 213,784.
Sanderson, Leon C. 213,445.
Sanderson, Leon C. 214,058.
Anaconda Aluminum Co.: *See*—
Jones Robert A., and Vold. 214,580.
Ancel, Selwyn, to Madison Chemical Corp. Dispenser for liquid soap or the like. 215,456, 9–30–69, Cl. D33—30.
Anchor Hocking Corp.: *See*—
Benes, Frank J. 215,226.
Benes, Frank J. 215,459.
Benes, Frank J. 215,460.
Benes, Frank J. 215,461.
Benes, Frank J. 215,462.
Benes, Frank J. 215,463.
Benes, Frank J. 215,464.
Benes, Frank J. 215,744.
Benes, Frank J. 215,745.
Anchor Hocking Glass Corp.: *See*—
Benes, Frank J. 213,834.
Benes, Frank J. 213,835.
Benes, Frank J. 213,840.
Benes, Frank J. 213,841.
Benes, Frank J. 213,842.
Benes, Frank J. 214,841.
Benes, Frank J. 214,842.
Benes, Frank J. 214,843.
Benes, Frank J. 214,844.
Benes, Frank J. 214,845.
Benes, Frank J. 214,846.
Hart, Alexander W., and Acton. 214,159.
Pettengill, Floyd E. 213,823.
Pettengill, Floyd E. 214,157.
Pettengill, Floyd E. 214,158.
Pettengill, Floyd E. 214,830.
Anders, Walter G., to Diebold, Inc. Combined closed circuit television transmitter and receiver cabinet. 213,198, 1–14–69, Cl. D26—5.
Anders, Walter G., to Diebold, Inc. Combined multi-television receiver unit and support stand therefor. 213,592, 3–18–69, Cl. D56—4.
Anders, Walter G., to Diebold, Inc. Combined television housing and support bracket therefor. 213,999, 4–29–69, Cl. D56—4.
Andersen, Nicholas. Child's skate board. 214,252, 5–20–69, Cl. D34—15.
Anderson, Clyde L., to Gould-Cargill & Co. Pick-up game piece. 213,123, 1–7–69, Cl. D34—15.
Anderson, Clyde L., to Gould-Cargill & Co., Inc. Game piece. 214,518, 6–24–69, Cl. D34—5.
Anderson, David L., to Monsanto Co. Jug. 215,411, 9–30–69, Cl. D9—47.
Anderson, Douglas W., to Burgess Vibrocrafters, Inc. Electric massager. 213,152, 1–7–69, Cl. D83—1.
Anderson, Douglas W., to Hanksscraft Co. Facial vaporizer. 213,443, 3–4–69, Cl. D23—148.
Anderson, Douglas W., to Burgess Vibrocrafters, Inc. Electric massager. 214,111, 5–6–69, Cl. D83—1.

Anderson, Edward J.: *See*—
Ritter, William A., and Anderson. 213,189.
Anderson, Frank R., and A. J. Castro, to Westates Space-Era Products, Inc. Hand stamp. 213,470, 3–4–69, Cl. D64—10.
Anderson, Frank R., and A. J. Castro, to Westates Space-Era Products, Inc. Hand stamp. 214,534, 6–24–69, Cl. D64—10.
Anderson, George C. Spool for wire, chain, extruding tubing, rope, string, and paper covered wire twist ties. 215,646, 10–21–69, Cl. D8—220.
Anderson, Harry G. Motion picture camera surveillance device. 214,533, 6–24–69, Cl. D61—1.
Anderson, Howard A., to Bissell Inc. Head for a dust mop. 214,287, 5–27–69, Cl. D49—21.
Anderson, Joel A., to Namsco, Inc. Wheel cover. 215,209, 9–16–69, Cl. D14—30.
Anderson, John A., to H. S. Laner. Bag or similar article. 214,161, 5–20–69, Cl. D9—249.
Anderson, Kermit V., to Washington Scientific Industries, Inc. Portable viewer for microfilm or the like. 215,969, 11–11–69, Cl. D61—1.
Anderson, Richard P. Building structure. 215,418, 9–30–69, Cl. D13—1.
Anderson, Stephen R., M. G. Crandell, and D. L. Pease, to Xerox Corp. Automatic document feeding apparatus for xerographic reproducing machines or the like. 214,959, 8–12–69, Cl. D61—1.
Anderson, Victor F., to Shell Oil Co. Jug or the like. 213,948, 4–29–69, Cl. D9—48.
Anderson, Victor F., to Shell Oil Co. Jug. 216,360, 12–23–69, Cl. D9—44.
Anderson, Victor F., and D. P. Atwood, to Shell Oil Co. Animal collar. 213,972, 4–29–69, Cl. D30—38.
Anderson, Victor F., and D. P. Atwood, to Shell Oil Co. Animal collar. 214,736, 7–22–69, Cl. D30—38.
Andis Clipper Co.: *See*—
Carpenter, Herbert R. 215,303.
Carpenter, Herbert R. 215,683.
Andis, Ernest R. Deposit receptacle for newspapers or the like. 213,738, 4–1–69, Cl. D74—9.
Ando, Momofuku, Paperboard carton. 216,098, 11–25–69. Cl. D9—226.
Ando, Momofuku. Paper bag. 216,187, 12–2–69, Cl. D9—251.
Andre, Dan M. Combined high intensity cosmetic make-up lamp and mirror. 213,392, 2–25–69, Cl. D48—20.
Andre, Dan M. Illuminable vanity case. 215,634, 10–14–69, Cl. D87—5.
Andre, Dan M. High intensity lamp. 215,873, 11–4–69, Cl. D48—20.
Anker, Theodore G., to S. Blickman Inc. Student laboratory desk. 214,453, 6–17–69, Cl. D33—7.
Annis, Martin, G. Davidson, A. G. La Selva, and R. St. Martin, to American Science and Engineering, Inc. Hand magnifier. 213,805, 4–8–69, Cl. D57—1.
Anson, Inc.: *See*—
Hodge, Philip A. 213,611.
Antaramian, Astor M. Combined toothbrush, toothpaste tube and soap bar holder. 216,316, 12–16–69, Cl. D33—26.
Antoine, Angelo C. Combined pocket ash receptacle, match box holder and cigarette rest or similar article. 215,515, 9–30–69, Cl. D85—2.
Antonio, Floyd L.: *See*—
Antonio, James F., and F. L. 213,096.
Antonio, James F., and F. L., to Essco Products Co. Telephone booth. 213,096, 1–7–69, Cl. D13—1.
Appel, Mel, to General Time Corp. Pocket watch or the like. 215,326, 9–23–69, Cl. D42—8.
Appel, Mel, to General Time Corp. Pocket watch or the like. 215,327, 9–23–69, Cl. D42—8.
Appel, Mel, and M. Schnur, to Elpo Industries, Inc. Blister display card. 213,309, 2–18–69, Cl. D9—192.
Appel, Mel, and M. Schnur. Bowl. 214,130, 5–13–69, Cl. D44—15.
Applied Power Industries, Inc.: *See*—
Hunnicutt, Wayne E., and Rossbach. 215,746.
Aqua Engineering Corp.: *See*—
Studinger, John H. 214,562.
Aqua-Marine Mfg. Ltd.: *See*—
Magi, Hugo, and Smith. 216,222.
Aqua Tec Corp.: *See*—
McCarty, Donald, Johnson, Cammack, Mattingly, Trenary, and Jeffers. 215,920.
Slee, Maxie E., Johnson, Lee, and Cammack. 216,235.
Aquariums Inc.: *See*—
Levin, Monte L. 214,961.
Levin, Monte L. 214,962.
Levin, Monte L. 215,765.
Willinger, Allan H. 213,555.
Willinger, Allan H. 214,918.
Aquilino, Brook A., to DaVinci Creations, Inc. Alphabet font. 213,853, 4–15–69, Cl. D64—12.
Araki, Minoru, to Lloyd's Electronics International. High-intensity lamp or similar article. 214,081, 5–6–69, Cl. D48—20.
Arato, Paul T., and A. M. Holland, to Mattel, Inc. Talking-teaching clock toy. 215,951, 11–11–69, Cl. D34—15.
Armbruster, John T., to American Optical Corp. Microscope. 214,698, 7–15–69, Cl. D57—1.
Armstrong Cork Co.: *See*—
Franco, Alfredo A. 214,821.
Armstrong Rubber Co., The: *See*—
Brown, Ellsworth R., and Rode. 215,525.
Brown, Ellsworth R., and Rode. 215,526.
Brown, Ellsworth R., and Rode. 215,527.
Jacobs, Julian R., Brown, and Amero. 215,530.
Jacobs, Julian R., Brown, and Amero. 215,531.
Jacobs, Julian R., Brown, and Rode. 215,528.
Jacobs, Julian R., and Rode. 215,529.
Mike, Zoltan. 214,479.
Mike, Zoltan. 215,522.
Mike, Zoltan. 215,523.
Schwall, Chester F., Jr., Rode, and Amero. 215,524.
Armstrong, William H., to Borg-Warner Corp. Water closet. 215,656, 10–21–69, Cl. D23—65.
Armstrong, William H., and N. T. Kuypers, to Borg-Warner Corp. Combined hand grip and soap dish. 215,859, 11–4–69, Cl. D33—24.
Arnett, Donald D. Dune buggy body. 215,424, 9–30–69, Cl. D14—3.
Arp, Leon J. Digital drafting machine. 213,265, 1–28–69, Cl. D26—14.
Arrigoni, David M. Translucent light diffuser panel. 214,939, 8–12–69, Cl. D48—16.
Arsenault, Gerald M., and M. P. Ehrlich, to Nuclear Research Associates, Inc. Sputum collecting device. 212,292, 2–4–69, Cl. D16—1.
Arseneault, John P. Housing for a keyboard, musical tone generator and electronic amplifier or similar article. 215,674, 10–21–69, Cl. D56—1.
Art Metal-Knoll Corp.: *See*—
Platner, Warren. 213,976.
Stephens, William I. 215,837.
Arthur, Richard J., A. K. Aberle, J. G. Carswell, and R. G. Brugger, to Sperry Rand Corp. Console marine gyrocompass. 214,200, 5–20–69, Cl. D52—6.
Arvan, Nicholas P.: *See*—
Svabek, John E., Jr., and Arvan. 215,099.
Arvan, Nicholas P., to Crane Co. Combined lavatory and cabinet. 213,369, 2–25–69, Cl. D23—59.
Arvin Industries, Inc.: *See*—
Miles, John K., and Lingle. 214,289.
Asaki, James T., to Sylvania Electric Products, Inc. Combined color television set and slide theater or similar article. 213,728, 4–1–69, Cl. D56—4.
Asch, David and R. D. Jug handle. 215,925, 11–11–69, Cl. D9—291.
Asch, Robert D.: *See*—
Asch, David and R. D. 215,925.
Ashe, H. J., Co., The: *See*—
Zapolski, Bronislaw. 215,614.
Ashe, Herbert J.: *See*—
Zapolski, Bronislaw. 214,752.
Zapolski, Bronislaw. 214,943.
Zapolski, Bronislaw. 215,614.
Ashe, Herbert J. Electric battery lantern. 213,516, 3–11–69, Cl. D48—24.
Ashtabula Bow Socket Co.: *See*—
Greenlee, Hugh T. 214,115.
Greenlee, Hugh T. 214,116.
Greenlee, Hugh T. 214,117.
Greenlee, Hugh T. 215,988.
Greenlee, Hugh T. 215,989.
Hussey, Robert R. 214,118.
Ashton, Harold P.: *See*—
Swett, James B., and Ashton. 214,928.
Swett, James B., and Ashton. 216,145.
Ashworth, Ralph N.: *See*—
Waddington, Richard J., Webb, and Ashworth. 213,670.
Atkin, C. B., Co.: *See*—
Chapin, Richard M. 215,804.
Chapin, Richard M. 215,805.
Chapin, Richard M. 215,856.
Chapin, Richard M. 216,132.
Atkin, David, to The Cannon Rubber Manufacturers Ltd. Car mat. 215,207, 9–16–69, Cl. D14—5.
Atkins & Merrill, Inc.: *See*—
Provest, Jon N. 214,925.
Atlantic Aviation Corp.: *See*—
Kraus, Richard W., and Rondepierre. 213,144.
Kraus, Richard W., and Rondepierre. 213,145.
Atlas Metal Industries, Inc.: *See*—
Salkoff, Goodwin. 215,467.
Atwaters, Alfonso T.: *See*—
Hermalin, Harry J. 213,376.
Atwood, David P.: *See*—
Anderson, Victor F., and Atwod. 213,972.
Anderson, Victor F., and Atwood. 214,736.
Auboeck, Carl, to Olympia Werke A.G. Typewriter. 213,230, 1–14–69, Cl. D64—11.
Auboeck, Carl, to Olympia Werke A.G. Typewriter housing. 213,232, 1–14–69, Cl. D64—11.
Auboeck, Carl, to Olympia Werke A.G. Typewriter housing. 213,233, 1–14–69, Cl. D64—11.
Auboeck, Carl, to Olympia Werke A.G. Typewriter housing. 213,256, 1–21–69, Cl. D64—11.
Auboeck, Carl, to Olympia Werke A.G. Housing for a typewriter. 214,815, 7–29–69, Cl. D64—11.
Aubrey, Donald M., to Aubrey Mfg. Inc. Housing for a camera. 214,653, 7–8–69, Cl. D61—1.
Aubrey Mfg. Inc.: *See*—
Aubrey, Donald M. 214,653.

Aurora Plastics Corp.: *See*—
Isaacson, Anson. 213,770.
Austin, Marilyn K., to American Standard, Inc. Handle for a flush tank trip lever. 213,623, 3–25–69, Cl. D23—29.
Automatic Electric Laboratories, Inc.: *See*—
Janda, George M. 213,565.
Stewart, George D. 214,888.
Ave, Nagao, to Nittan Co., Ltd. Fire detector or the like. 215,039, 8–19–69, Cl. D72—1.
Ave, Nagao, to Nittan Co., Ltd. Fire detector or the like. 215,040, 8–19–69, Cl. D72—1.
Avedon, Harvey R., to Alladin Plastics, Inc. Cup and saucer holder. 214,848, 8–5–69, Cl. D44—29.
Averitt, Marnie C., to The Craftool Co. Vacuum cleaning device. 215,874, 11–4–69, Cl. D49—13.
Averitte, William H. Grinding and polishing device. 214,805, 7–29–69, Cl. D37—1.
Avila, Enrique. Sign. 214,860, 8–5–69, Cl. D96—12.
Avon Rubber Co. Ltd.: *See*—
Parry, John R. K. 215,532.
Axelrod, Herbert R., to T.F.H. Publications, Inc. Aquarium fish net frame. 214,317, 6–3–69, Cl. D22—22.
Aydelotte, Virgil E., to Lit-Ning Products Co. Desk file. 215,897, 11–4–69, Cl. D74—2.
Aylott, D. Howard. Display package of false eyelashes and adhesive material. 215,821, 11–4–69, Cl. D9—185.
Aylott, David H. Combined artificial eyelashes and display box. 213,769, 4–8–69, Cl. D9—187.
Aylott, Eric V., to Eylure Ltd. Combined container and artificial fingernails. 215,202, 9–16–69, Cl. D9—187.
Aylott, Eric V., to Eylure Ltd. Combined container and artificial fingernails. 215,822, 11–4–69, Cl. D9—187.
B.C.N. Design Products, Inc.: *See*—
Braun, Samuel. 213,281.
BSR Ltd.: *See*—
Lane, Norman. 216,124.
BSR (USA) Ltd.: *See*—
Hoyt, Earl E. 216,376.
Baatz, Richard J., ⅓ to Pawnee Corp. Fence post wire insulator. 213,106, 1–7–69. Cl. D26—10.
Baatz, Richard J., ⅓ to Pawnee Corp. Wire mounting insulator. 213,107, 1–7–69, Cl. D26—10.
Babson Bros. Co.: *See*—
Shulick, Robert J., and Swanson. 214,481.
Babyline Furniture Corp.: *See*—
Jacobs, Robert V. 215,264.
Baccanti, James R. Utility pole. 213,564, 3–18–69, Cl. D26—12.
Bacevius, Joseph G.: *See*—
Moore, Arthur H., and Bacevius. 213,584.
Bachand, Retha. Combined sink tray and dish drainer. 215,170, 9–9–69, Cl. D44—29.
Bachner, George L., to Majestic Tile Co. Decorative facing. 213,687, 4–1–69, Cl. D18—2.
Bacialli, Paolo. Can. 214,021, 5–6–69, Cl. D9—44.
Baechle, William G.: *See*—
Curtin, Kenneth M., Kern, White, and Baechle. 215,846.
Baer, Rudi: *See*—
Levin, Monte. 213,991.
Bagnara, Silvio F. Drift calculator for aircraft navigation. 216,279, 12–9–69, Cl. D52—6.
Bair, Herbert Q., and F. R. Nebiker, to Goodyear Aerospace Corp. Wing glider. 215,247, 9–16–69, Cl. D71—1.
Baker, Berkley J., and F. La Haye, to Teledyne, Inc. Service pin. 215,606, 10–14–69 Cl. D29—2.
Baker, Bernie B., to Keystone Consolidated Industries, Inc. Backplate or the like. 213,908, 4–22–69, Cl. D50—6.
Baker Brush Co., Inc.: *See*—
McGuire, John W. 216,247.
Baker, J. T., Chemical Co.: *See*—
McIlroy, Robert E. 216,362.
Baker, James W., to Hunter Structures Inc. Car wash structure. 215,088, 9–2–69, Cl. D13—1.
Baker, Roy L.: *See*—
Summers, Marion K., and Baker. 213,714.
Baldwin Bracelet Corp.: *See*—
Poon, Yuen S. 213,332.
Poon, Yuen S. 213,333.
Poon, Yuen S. 213,633.
Poon, Yuen S. 214,878.
Baldwin, D. H., Co.: *See*—
White, Winsor D., Jr. 213,224.
White, Winsor D., Jr. 213,225.
White, Winsor D., Jr. 213,227.
White, Winsor D., Jr. 213,255.
White, Winsor D., Jr. 213,593.
White, Winsor D., Jr. 214,530.
White, Winsor D., Jr. 214,650.
White, Winsor D., Jr. 214,651.
White, Winsor D., Jr. 214,652.
Baldwin, Gary L., to Snak-Bar, Inc. Drive-in restaurant. 215,707, 10–28–69, Cl. D13—1.
Baldwin, Michael N.: *See*—
Duern, Gordon L., and Baldwin. 214,912.
Ball, Lindsay M., and G. L. Guaraldi, to Bond Research Laboratories, Inc. Lens grinding machine or the like. 215,465, 9–30–69, Cl. D37—1.
Ball, Stanley, to Cannon Mills Co. Textile fabric. 215,784, 10–28–69, Cl. D92—1.
Ball, Stanley, to Cannon Mills Co. Towel or similar article. 215,795, 10–28–69, Cl. 92—26.
Ball, Stanley, to Cannon Mills Co. Towel or similar article. 215,796, 10–28–69, Cl. D92—26.
Balleis, Peter. Toy spinning top. 214,802, 7–29–69, Cl. D34—15.
Ballone, Michael P., R. F. Bunyea, and R. A. Fritts, to The Black and Decker Mfg. Co. Portable power operated sabre saw. 214,987, 8–19–69, Cl. D8—64.
Ballou, Milton L. Broom. 215,753, 10–28–69, Cl. D49—21.
Balseiro, Cordoba & Compania (Balco): *See*—
De Balseiro, Emilia C. 215,401.
De Balseiro, Emilia C. 215,402.
Bangor Punta Operations, Inc.: *See*—
Litman, Alan L., and Hackbarth. 215,934.
Bannasch, Richard F., and G. H. Robinette. Photographic web processor. 214,814, 7–29–69, Cl. D61—1.
Barber, Abe L. Pillow. 214,302, 6–3–69, Cl. D3—9.
Bard, C. R., Inc.: *See*—
Vaillancourt, Vincent L. 216,169.
Bard, Elmer H. Housekeeping cart. 215,834, 11–4–69, Cl. D14—3.
Bardean, William M. Beverage brewing and dispensing unit. 216,356, 12–16–69, Cl. D94—3.
Bardeau, William M., to J. J. Connolly. Sandwich grill. 213,931, 4–22–69, Cl. D81—10.
Barecki, Chester J., to American Seating Co. Driver's seat for a commercial vehicle. 213,685, 4–1–69, Cl. D15—8.
Barecki, Chester J., to American Seating Co. Vehicle seat. 214,244, 5–20–69, Cl. D15—8.
Barecki, Chester J., to American Seating Co. Tape recorder cabinet. 215,944, 11–11–69, Cl. D33—19.
Bargetzi, Fred H., H. T. Heinlein, and C. L. Loesch, to Sperry Rand Corp. Radome. 214,629, 7–8–69, Cl. D26—14.
Barghout, Alexander S. Bar stool. 213,684, 4–1–69. Cl. D15—8.
Barghout, Alexander S. Trestle table. 213,704, 4–1–69, Cl. D33—14.
Barghout, Alexander S. Chair or similar article. 214,438, 6–17–69, Cl. D15—1.
Barke, Bernard A., and A. J. Vasilatos, to Bell & Howell Co. Combined motion picture projector and cover. 214,958, 8–12–69, Cl. D61—1.
Barlow, Beatrice L.: *See*—
Barlow, Horace V. 214,410.
Barlow, Horace V., deceased (B. L. Barlow, administrix), to The Dunlop Co., Ltd. Tire. 214,410, 6–10–69, Cl. D90—20.
Barnes, Leo, N. K. Rhoades, and R. E. Talley, to Bucyrus-Erie Co. Excavating machine. 213,437, 3–4–69, Cl. D14—3.
Barnes, Raymond C., to American Desk Mfg. Co. Combined desk and table unit. 215,009, 8–19–69, Cl. D33—7.
Barnes, Raymond C., to American Desk Mfg. Co. Combined table and dual desk unit. 215,010, 8–19–69, Cl. D33—7.
Barnes, Raymond C., to American Desk Mfg. Co. Combined table and dual desk unit. 215,011, 8–19–69, Cl. D33—7.
Barnes, Raymond C., to American Desk Mfg. Co. Typewriter desk. 215,308, 9–23–69, Cl. D33—7.
Barnes, Raymond C., to American Desk Mfg. Co. Study carrel. 215,309, 9–23–69, Cl. D33—11.
Barnett, Burton, F. Raymes, and T. A. Sackinger, to North America Rockwell Corp. Aerospace vehicle or similar article. 213,146, 1–7–69, Cl. D71—1.
Barnett, Morris, to D. B. Webb. Vacuum pump. 214,293, 5–27–69, Cl. D65—1.
Barrett, Hoke S. Holder for trash receptacle. 214,849, 8–5–69, Cl. D49—30.
Barris, George, to Stelber Cycle Corp. Bicycle seat. 213,538, 3–11–69. Cl. D90—16.
Barris, George. Vehicle wheel. 214,620, 7–8–69, Cl. D14—30.
Barroero, Louis F. Front door panel for a refrigerated display cabinet. 215,677, 10–21–69, Cl. D67—3.
Barroero, Louis F. Corner refrigerator cabinet. 216,226, 12–2–69, Cl. D67—3.
Baron, William J., to Thermal Engineering & Design Co. Space heater. 213,694, 4–1–69. Cl. D23—122.
Bartholomew, Robert P., to Steelcase, Inc. Chair. 214,315, 6–3–69, Cl. D15—1.
Bartholomew, Robert P., to Steelcase, Inc. Combined hat and coat hook. 214,891, 8–12–69, Cl. D15—8.
Bartlett, Eric C., to The Dunlop Co. Ltd. Tire. 214,411, 6–10–69, Cl. D90—20.
Barton, Grahame J., to The Dunlop Co. Ltd. Tire. 213,658, 3–25–69, Cl. D90—20.
Barton, Raymond W., and G. A. Claybaugh, to Mead Johnson & Co. Nurser nipple. 215,253, 9–16–69, Cl. D83—8.
Barvinek, Abraham: *See*—
Barvinek, Gedalyahu and A. 213,727.
Barvinek, Gedalyahu and A. Vise. 213,727, 4–1–69, Cl. D54—13.
Bassett, Irwin, to The Lamport Co., Inc. Piece goods hanger. 213,237, 1–14–69, Cl. D80—8.
Bassett, W. E., Co., The: *See*—
Hedu, Jon. 215,668.
Bassetti, Fred, & Co./Architects: *See*—
Wilcox, Lucile M. 215,098.
Bassin, Leonard N. Food service building. 213,434, 3–4–69, Cl. D13—1.
Basto, Joaquim F. P. Angel figurine. 214,797, 7–29–69, Cl. D29—23.
Basto, Joaquim F. P. Angel figurine. 214,837, 8–5–69, Cl. D29—23.
Basto Joaquim F. P. Angel figurine. 214,838, 8–5–69, Cl. D29—23.

Bata Shoe Co., Inc.: *See*—
Dittmar, Frank L., Jr. 213,414.
Dittmar, Frank L., Jr. 213,417.
Dittmar, Frank L., Jr. 215,643.
Dittmar, Frank L., Jr.. 215,644.
Dittmar, Frank L., Jr., and Rutherford. 213,416.
Meadows, Damon G. 213,415.
Batchelor, Glenn A. Crane hook. 215,268, 9–23–69, Cl. D8—252.
Batdorf, Danny J., to Owens-Illinois, Inc. Packaging tub. 213,427, 3–4–69, Cl. D9—219.
Batdorf, Danny J., to Owens-Illinois, Inc. Packaging tub. 213,428, 3–4–69, Cl. D9—220.
Bateman, Robert F.: *See*—
Swett, James B., and Bateman. 216,271.
Bateman, Robert F., and J. B. Swett, to Dart Industries Inc. Mold for comestibles or similar article. 214,931, 8–12–69, Cl. D44—1.
Bateman, Robert F., and J. B. Swett, to Dart Industries Inc. Plate for pastries or the like. 216,146, 11–25–69, Cl. D44—19.
Bates, Bobby L.: *See*—
Bates, Wesley V. and B. L. 214,047.
Bates Industries, Inc.: *See*—
Hiatt, Walter R., and Jones. 214,007.
Jones, Paul R. 213,303.
Jones, Paul R. 214,013.
Jones, Paul R. 214,014.
Bates Mfg. Co., The: *See*—
Gaya, William L. 214,601.
Bates, Wesley V. and B. L., to Jacketing Specialty. Chlorinator unit for swimming pools or the like. 214,047, 5–6–69, Cl. D23—3.
Bath, William H. Shipping container. 213,175, 1–14–69, Cl. D9—224.
Bath, William H. Container shipping. 213,612, 3–25–69, Cl. D9—224.
Batlin, L., & Son, Inc.: *See*—
Samtambrogio, Carlo. 214,521.
Bauer Ordnance Co.: *See*—
Bauer, Russell E. 215,274.
Bauer, Russell E., to Bauer Ordnance Co. Armored motor vehicle. 215,274, 9–23–69, Cl. D14—3.
Bauer, Theodor F.: *See*—
Porsche, Ferdinand A., and Bauer. 215,950.
Baugh, Benjamin C., and D. B. Cleveland, to The Coleman Co., Inc. Trailer roof-top air conditioner cover. 213,559, 3–18–69, Cl. D23—142.
Bauman, Joseph F., to Acme-Hamilton Mfg. Corp. Corrugated hose. 215,002, 8–19–69, Cl. D23—45.
Baumanis, Bruno, to Molex Products Co. Electric push button switch. 215,548, 10–7–69, Cl. D26—13.
Baun, Theadore. Cutter. 215,809, 11–4–69, Cl. D8—52.
Bausch & Lomb Inc.: *See*—
Bright, Stephen K. 214,137.
Huggins, Richard L. 214,138.
Huggins, Richard L. 215,032.
Huggins, Richard L. 215,574.
Huggins, Richard L. 215,575.
Huggins, Richard L. 215,576.
Huggins, Richard L. 215,918.
Huggins, Richard L. 216,336.
Huggins, Richard L., and McCracken. 213,594.
Simon, Jean R. 213,595.
Simon, Jean R. 214,139.
Simon, Jean R. 216,337.
Beaman, Joseph L. Fixture for bathroom or the like. 215,163, 9–9–69, Cl. D33—26.
Beardmore, John E., to Karoll's Inc. Convertible chair. 213,773, 4–8–69, Cl. D15—1.
Bearse, Robert E., to Western Electric Co., Inc. Telephone switchboard. 214,795, 7–29–69, Cl. D26—14.
Bearse, Robert E., to Western Electric Co., Inc. Telephone switchboard housing. 214,796, 7–29–69, Cl. D26—14.
Bearse, Robert E., to Western Electric Co., Inc. Telephone switchboard. 216,265, 12–9–69, Cl. D26—14.
Beatty Plastics Co.: *See*—
Hylton, Gary K. 214,237.
Beaumont, William E., to Downey Fertilizer Co. Combined package and spreader for pulverulent material. 214,023, 5–6–69, Cl. D9—221.
Beaumont, William E., to Downey Fertilizer Co. Combined package and spreader for pulverulent material. 214,024, 5–6–69, Cl. D9—221.
Beauti-Dor, Inc.: *See*—
Mango, Joseph. 216,392.
Beaver, Henry W. Valve. 215,213, 9–16–69, Cl. D23—38.
Beck, Jack W., to Plasto Inc. Building roof. 215,419, 9–30–69, Cl. D13—1.
Beck, Jack W., to Plasto Inc. Building roof. 215,420, 9–30–69, Cl. D13—1.
Beck, Jack W., to Plasto Inc. Building. 215,708, 10–28–69, Cl. D13—1.
Beck, Jack W., to Plasto Inc. Building. 215,709, 10–28–69, Cl. D13—1.
Beck, Jack W., to Plasto Inc. Building. 215,710, 10–28–69, Cl. D13—1.
Beck, Jack W., to Plasto Inc. Building. 215,829, 11–4–69, Cl. D13—1.
Beck, Jack W., to Plasto Inc. Building roof. 215,830, 11–4–69, Cl. D13—1.
Beck, Jack W., to Plasto Inc. Building roof. 216,105, 11–25–69, Cl. D13—1.
Beck, Philip, to Bulova Watch Co., Inc. Jewelry box. 214,160, 5–20–69, Cl. D9—231.
Becker, Brant W., to Intronics Inc. Housing for electronic apparatus. 214,055, 5–6–69, Cl. D26—1.
Becker, Elsie M. Planter. 214,804, 7–29–69, Cl. D35—3.
Becker, Max: *See*—
Haskin, Donald F., and Becker. 213,313.
Haskin, Donald F., and Becker. 214,052.
Haskin, Donald F., and Becker. 215,053.
Haskin, Donald F., and Becker. 215,973.
Beckley, Kenneth E. Whirling disc toy. 214,069, 5–6–69, Cl. D34—15.
Beckman, Charles F., and R. W. Schier, to Nibot Corp. Cup. 213,460, 3–4–69, Cl. D44—9.
Beckman, Glenn B. Pitcher. 215,168, 9–9–69, Cl. D36—2.
Beckman, Glenn B., to Corning Glass Works. Juicer or the like. 215,227, 9–16–69, Cl. D44—21.
Beckman, Glenn B. Trivet or the like. 216,270, 12–9–69, Cl. D44—10.
Beeman, Everett C., and E. W. Fuerst, to Monsanto Co. Food packaging cup or similar article. 213,491, 3–11–69, Cl. D9—219.
Beeman, Everett C., and E. W. Fuerst, to Monsanto Co. Food packaging cup or similar article. 213,492, 3–11–69, Cl. D9—219.
Beer, Donald A. E. Game board. 213,208, 1–14–69, Cl. D34—5.
Beeson, Jon R., to Jaybee Mfg., Inc. Can puncturer. 215,921, 11–11–69, Cl. D8—33.
Behr, Lawrence V., to Multronics, Inc. Antenna. 218,203, 1–14–69, Cl. D26—14.
Behring, Alexander. Telephone handset support or the like. 215,006, 8–19–69, Cl. D26—14.
Beich, Frank R., and L. Seeley, to American Hospital Supply Corp. Thermometer holder. 214,090, 5–6–69, Cl. D52—7.
Beich, Frank R., and L. Seeley, to American Hospital Supply Corp. Thermometer holder. 215,021, 8–19–69, Cl. D52—7.
Belitzky, Stanley, to Bell Designs, Inc. Can. 213,859, 4–22–69. Cl. D9—43.
Bell, Berl L. Portable street and parking lot cleaner. 216,154, 11–25–69, Cl. D49—9.1.
Bell Designs, Inc.: *See*—
Belitzky, Stanley. 213,859.
Bell & Howell Co.: *See*—
Barke, Bernard A., and Vasilatos. 214,958.
Jones, Charles E., and Gruenhut. 213,228.
Bell, Mace H.: *See*—
Wahlenmeier, Frederick E., Podoloff, and Bell. 213,729.
Bell, Mace, Jr., and E. J. Westcott, to The General Fireproofing Co. Chair. 215,836, 11–4–69, Cl. D15—1.
Bell, Ted A., and G. W. Monigle, to Mine Safety Appliances Co. Respirator. 213 810, 4–8–69, Cl. D83—1.
Bell Telephone Laboratories, Inc.: *See*—
Dreyfuss, Henry. 214,216.
Dreyfuss, Henry, and Genaro. 215,664.
Dreyfuss, Henry, and Stokes. 213,108.
Dreyfuss, Henry, and Stokes. 215,159.
Hagelbarger, David W. 213,832.
Bellafiore, Gaspare. Tester for hearing aid batteries. 214,088, 5–6–69, Cl. D52—6.
Bellamy, Clifford A. Building unit. 214,311, 6–3–69, Cl. D13—1.
Beller, Kenneth L. Shield for a precision balance. 213,801, 4–8–69, Cl. D52—10.
Bellini, Mario, to Ing. C. Olivetti & C., S.p.A. Combined input and out-put console for data. 213,830, 4–15–69, Cl. D26—5.
Bellini, Mario, to Ing. C. Olivetti & C., S.p.A. Document reproducing unit. 216,161, 11–25–69, Cl. D61—1.
Bellinson, Bernard, and H. R. Young, to Marine Swimming Pool Equipment Co. Swimming pool grab rail. 215,706, 10–28–69, Cl. D13—1.
Bellmon, Shirley. Applique emblem. 213,171, 1–14–69, Cl. D3—9.
Bello, Salvatore, to Jacoby-Bender, Inc. Link chain for a bracelet or the like. 213,632, 3–25–69, Cl. D45—4.
Belzer-Werk R. Belzer: *See*—
Muller, Karl-Heinz. 215,403.
Bemiss, James M., to Cadillac Gage Co. Armored vehicle. 216,300, 12–16–69, Cl. D14—3.
Bender, Carl H. Building. 213,095, 1–7–69, Cl. D13—1.
Bender, Harry. Dental cleaning implement. 214,238, 5–20–69, Cl. D4—24.
Bender, Norman R., to The General Fireproofing Co. Combined desk and plural cabinet unit. 213,324, 2–18–69, Cl. D33—19.
Benenfeld, Peter, to Peter's Bag Corp. Combined luggage handle and attachment bar therefor. 215,048, 8–26–69, Cl. D8—154.
Benes, Frank J., to Anchor Hocking Glass Corp. Vase or similar article. 213,834, 4–15–69, Cl. D29—28.
Benes, Frank J., to Anchor Hocking Glass Corp. Vase or similar article. 213,835, 4–15–69, Cl. D29—28.
Benes, Frank J., to Anchor Hocking Glass Corp. Tray or similar article. 213,840, 4–15–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Glass Corp. Bowl or similar article. 213,841, 4–15–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Glass Corp. Footed bowl or similar article. 213,842, 4–15–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Glass Corp. Pitcher or similar article. 214,841, 8–5–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Glass Corp. Bowl or similar article. 214,842, 8–5–69, Cl. D36—2.

Benes, Frank J., to Anchor Hocking Glass Corp. Bowl or similar article. 214,843, 8–5–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Glass Corp. Creamer or similar article. 214,844, 8–5–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Glass Corp. Tumbler or similar article. 214,845, 8–5–69, Cl. D36—8.
Benes, Frank J., to Anchor Hocking Glass Corp. Goblet or similar article. 214,846, 8–5–69, Cl. D36—8.
Benes, Frank J., to Anchor Hocking Corp. Tumbler or similar article. 215,226, 9–16–69, Cl. D36—8.
Benes, Frank J., to Anchor Hocking Corp. Cup or similar article. 215,459, 9–30–69, Cl. D36—8.
Benes, Frank J., to Anchor Hocking Corp. Bowl or the like. 215,460, 9–30–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Corp. Bowl or similar article. 215,461, 9–30–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Corp. Bowl or the like. 215,462, 9–30–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Corp. Tumbler or similar article. 215,463, 9–30–69, Cl. D36—8.
Benes, Frank J., to Anchor Hocking Corp. Sherbet glass or similar article. 215,464, 9–30–69, Cl. D36—8.
Benes, Frank J., to Anchor Hocking Corp. Pitcher or similar article. 215,744, 10–28–69, Cl. D36—2.
Benes, Frank J., to Anchor Hocking Corp. Bowl or similar article. 215,745, 10–28–69, Cl. D36—2.
Benigno, Joseph D. Combined golf, baseball and basketball game target. 214,066, 5–6–69, Cl. D34—5.
Benjamin, E Burton, to Dominion Electric Corp. Can opener. 214,548, 7–1–69, Cl. D8—36.
Benjamin, E Burton, to Dominion Electric Corp. Iron. 214,585, 7–1–69, Cl. D49—1.
Benjamin, E Burton, to Dominion Electric Corp. Blender. 214,609, 7–1–69, Cl. D89—1.
Benjamin, E Burton, to Dominion Electric Corp. Beverage dispenser. 215,045, 8–19–69, Cl. D94—3.
Benjamin, Marshall E. Portable animal enclosure. 215,549, 10–7–69, Cl. D30—1.
Benke, Frederick J. Gun cleaning equipment container. 213,601, 3–18–69, Cl. D87—1.
Benner-Nawman, Inc.: *See*—
Nawman, Rollie B. 215,926.
Bennett Industries, Inc.: *See*—
Churan, Roy G. 214,997.
Benson, Charles S. Hydrodynamic bathtub. 216,194, 12–2–69, Cl. D23—55.
Benson, Kenneth G., to The Wurlitzer Co. Portable electronic piano or similar article. 214,211, 5–20–69, Cl. D56—9.
Benson, Kenneth G., to The Wurlitzer Co. Electronic piano or similar article. 214,212, 5–20–69, Cl. D56—9.
Benz, Robert P. Educational device or the like. 216,364, 12–23–69, Cl. D25—1.
Benz, Robert P. Educational device or the like. 216,365, 12–23–69, Cl. D25—1.
Benze, Theodore A. Kite flight control handle. 213,987, 4–29–69, Cl. D34—15.
Berardo, John F. Combined toothbrush holder and timer. 214,926, 8–12–69, Cl. D33—28.
Berardo, John F. Souvenir paperweight or similar article. 215,511, 9–30–69, Cl. D74—12.
Berby SA: *See*—
Vogt, Paul. 216,211.
Berend, Peter M., to Rubbermaid Inc. Bath room accessory cabinet or similar article. 213,571, 3–18–69, Cl. D33—16.
Berg, Milton A. Vehicle arm rest. 213,102, 1–7–69, Cl. D15—8.
Berger, Max. Garment bag carrier. 214,483, 6–24–69, Cl. D8—154.
Berger, Max. Garment bag carrier. 214,484, 6–24–69, Cl. D8—154.
Berger-Rivenburgh, Inc.: *See*—
Berger, Sol J., and Rivenburgh. 215,454.
Berger, Sol J., and J. G. Rivenburgh, to Berger-Rivenburgh, Inc. Combined razor and blade holder. 215,454, 9–30–69, Cl. D33—23.
Berglass, Robert H., to Caryl Richards, Inc. Hair dryer. 215,780, 10–28–69, Cl. D86—10.
Berglund, Allen W. Sliding vehicle. 213,790, 4–8–69, Cl. D34—15.
Beringer, Rosanne, to Welcome Wagon International Inc. Brooch. 213,901, 4–22–69, Cl. D45—19.
Berkl, Josef U., and D. L. Jenner, to Hi-Shear Corp. Tool for heating tubing and the like. 213,913, 4–22–69, Cl. D54—13.
Berlik, Leroy J., and C. E. Feldkircher, to Hardwick Stove Co. Burner grate or the like. 215,251, 9–16–69, Cl. D81—25.
Bernadotte, Sigvard, to Aktiebolaget Ifoverken. Double globe wall lamp. 213,279, 1–28–69, Cl. D48—4.
Bernard, Terry L., to Kenner Products Co. Toy dinosaur head. 215,312, 9–23–69, Cl. D34—2.
Berns, Charles, to Edwards Co., Inc. Horn or similar article. 215,974, 11–11–69, Cl. D72—1.
Berns, Charles, to Edwards Co., Inc. Horn or similar article. 215,975, 11–11–69, Cl. D72—1.
Berns, Charles, to Edwards Co., Inc. Horn or similar article. 215,976, 11–11–69, Cl. D72—1.
Berns, Charles, to Edwards Co., Inc. Horn or similar article. 215,977, 11–11–69, Cl. D72—1.
Berns, Charles, to Edwards Co., Inc. Horn or similar article. 215,978, 11–11–69, Cl. D72—1.
Bernstein, Samuel: *See*—
Levin, Monte L., and Bernstein. 216,170.
Berry Mini-"T": *See*—
Hoff, James O. 215,651.
Berticevich, Bruno A. Water craft. 215,186, 9–9–69, Cl. D71—1.
Besser, Jesse. Vibrating shaft. 216,160, 11–25–69, Cl. D55—1.
Best, Cleafe A., Jr., to J. J. Monaghan Co., Inc. Portable ultrasonic nebulizer. 214,605, 7–1–69, Cl. D83—1.
Best, Cleafe A., Jr., to J. J. Monaghan Co., Inc. Ultrasonic nebulizer. 214,606, 7–1–69, Cl. D83—1.
Better Packages, Inc.: *See*—
Sharpe, Everett E., and Hughes. 214,600.
Betzer, Cloyd L., to Thermolyne Corp. Hot plate. 215,514, 9–30–69, Cl. D81—10.
Bewyer, Ronnal L., and W. R. Maynard, Jr. Extruded seal. 215,148, 9–9–69, Cl. D13—6.
Bewyer, Ronnal L., and W. R. Maynard, Jr. Extruded seal. 215,149, 9–9–69, Cl. D13—6.
Bezborodko, David and J. Portable, illuminable mirror. 213,743, 4–1–69, Cl. D86—1.
Bezborodko, Joseph: *See*—
Bezborodko, David and J. 213,743.
Biallo, Olga M.: *See*—
Biallo, Thomas M. and O. M. 214,877.
Biallo, Thomas M. and O. M. Container for perfume or the like. 214,877, 8–12–69, Cl. D9—168.
Bicknell, George W.: *See*—
Gulliford, Tom O., and Bicknell. 214,921.
Gulliford, Tom O., and Bicknell. 214,957.
Bidwell, Robert E., and S. Mishkin. Golfing aid located at tee to provide visual information as to characteristics of hole. 215,754, 10–28–69, Cl. D52—1.
Bieger, Walter I., to Honeywell, Inc. Space condition responsive instrument. 213,800, 4–8–69, Cl. D52—7.
Bielicki, John J., and W. F. Lodding, to American Can Co. Bottle. 213,768. 4–8–69, Cl. D9—129.
Bigos, Aloise A.: *See*—
Cheris, Maynard H., Bigos, and Mox. 216,028.
Biklen, Wayne M., to Edward Weck & Co., Inc. Disposable razor. 215,915, 11–4–69, Cl. D95—3.
Bio-Neering, Inc.: *See*—
Brickson, William L. 214,223.
Birchard, Jesse R., C. Bondar, and R. C. Conner, to Clark Equipment Co. Front end unit for a trailer. 215,591, 10–14–69, Cl. D14—3.
Birchard, Jesse R., A. D. Mortrude, and R. C. Conner, to Clark Equipment Co. Vehicle. 215,592, 10–14–69, Cl. D14—3.
Birchard, Jesse R., A. D. Mortrude, and R. C. Conner, to Clark Equipment Co. Vehicle. 215,593, 10–14–69, Cl. D14—3.
Birchard, Jesse R., A. D. Mortrude, and R. C. Conner, to Clark Equipment Co. Vehicle. 215,594, 10–14–69, Cl. D14—3.
Birchard, Jesse R., C. Bondar, R. C. Conner, and A. D. Mortrude, to Clark Equipment Co. Trailer. 215,595, 10–14–69, Cl. D14—3.
Birchard, Jesse R., A. D. Mortrude, and R. C. Conner, to Clark Equipment Co. Rear end panel unit of a vehicle. 216,387, 12–30–69, Cl. D14—3.
Birger, Jordan and M., and M. J. Di Pierro, to Standard Oil Co. Mounting plate for container handle. 213,264, 1–28–69, Cl. D10—8.
Birger, Marvin: *See*—
Birger, Jordan and M., and Di Pierro. 213,264.
Biro, Alexander J., to Season-All Industries, Inc. Replacement window and sash unit. 213,676, 4–1–69, Cl. D13—1.
Bissell Inc.: *See*—
Anderson, Howard A. 214,287.
Hoxie, Orville D., and MacDonald. 213,630.
Tompkins, David D. 214,871.
Yonkers, Robert A. 214,260.
Bittaker, Charles E., Jr., and T. F. Sarah, to Pflueger Corp. Fly fishing reel. 214,497, 6–24–69, Cl. D22—25.
Bittaker, Charles E., Jr., and T. F. Sarah, to Shakespeare Co. Bait casting reel. 216,193, 12–2–69, Cl. D22—27.
Bixby, Thomas G., and H. R. Holman, to Phillips Drill Co. Sleeve anchor. 213,589, 3–18–69, Cl. D54—9.
Black and Decker Mfg. Co., The: *See*—
Ballone, Michael P., Bunyea, and Fritts. 214,987.
Black, Henry. Urn. 213,450, 3–4–69, Cl. D29—28.
Black, Henry. Urn. 213,971, 4–29–69, Cl. D29—28.
Black, Kenneth. Dual compartment container for liquids. 213,354, 2–25–69, Cl. D9—18.
Black, Leonard J., to Pacific Handy Cutter, Inc. Combined shearing and prying tool for metal straps or the like. 213,258, 1–21–69, Cl. D95—5.
Black, Leonard J., to Pacific Handy Cutter, Inc. Hand shears. 214,712, 7–22–69, Cl. D8—58.
Blackston, Bennie L. Gate latch. 216,293, 12–16–69, Cl. D8—131.
Blackwell Electronics Inc. Co., Ltd.: *See*—
Daito, Hiroshi. 214,082.
Blackwell, Lyman L. Electronic amplifier enclosure housing an end seal and current flow barrier. 216,394, 12–30–69, Cl. D26—14.
Blackwell, Robert L.: *See*—
Earles, Everett D., and Blackwell. 213,722.
Blair, Corinne C. Bathroom utility bag. 213,243, 1–14–69, Cl. D87—5.
Blaisdell, Ronald G., and H. A. J. de Vos, to Sylvania Electric Products, Inc. Lighting fixture. 213,994, 4–29–69, Cl. D48—23.
Blake, Darrell N. Well casing pipe. 213,828, 4–15–69, Cl. D23—45.

Blake, Minden V. Head of a golf club. 216,031, 11–18–69, Cl. D34—5.
Blake, William F., Inc.: *See*—
Fattori, Lazzaro A. 215,984.
Blanchard, Paul R., to Compagnie Generale des Eaux. Ozone apparatus. 213,961, 4–29–69, Cl. D23—150.
Blank, Fritz, to Copystatics Mfg. Corp. Copying machine. 213,920, 4–22–69, Cl. D61—1.
Blankenship, Arthur C., to Uniroyal, Inc. Pneumatic tire. 215,134, 9–2–69, Cl. D90—20.
Blankenship, Arthur C., to Uniroyal Inc. Pneumatic tire. 215,135, 9–2–69, Cl. D90—20.
Blessing-Werke KG: *See*—
Hafner, Karl. 215,555.
Hafner, Karl. 215,556.
Blickman, S., Inc.: *See*—
Anker, Theodore G. 214,453.
Bliss, Beatrice. Cake holder. 213,718, 4–1–69, Cl. D44—19.
Bliss, E. W., Co.: *See*—
Calderoni, Marilyn, and Cheslock. 216,345.
Cheslock, Edward P. 213,925.
Cheslock, Edward P. 214,254.
Bliss & Laughlin Industries Inc.: *See*—
Speicher, Alan W., and Godwin. 213,494.
Bloch, Roy W., and D. K. Jewell, to Ekco Products, Inc. Food packaging tray. 214,832, 8–5–69, Cl. D9—219.
Block China Co.: *See*—
Gulotta, Gerald. 213,458.
Gulotta, Gerald. 213,459.
Gulotta, Gerald. 213,461.
Gullota, Gerald. 214,392.
Gulotta, Gerald. 215,469.
Gulotta, Gerald. 215,470.
Gulotta, Gerald. 215,471.
Bloom, Roy M.: *See*—
Levin, Monte L. 213,965.
Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Railing. 213,097, 1–7–69, Cl. D13—7.
Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Ornamental railing. 214,433, 6–17–69, Cl. D13—7.
Blumcraft of Pittsburgh: *See*—
Blum, Louis, and Horgan. 213,097.
Blum, Louis, and Horgan. 214,433.
Blumenthal, Martin L., to De Luxetopper Corp. Fan toy. 213,708, 4–1–69, Cl. D34—15.
Boake, George E.: *See*—
Mulvey, Gerard E., and Boake. 213,634.
Mulvey, Garard E., and Boake. 215,341.
Bobrick, Michell, to P. N. Luminous Equipment Co. Combined support arm for extensible lamp and service outlet control panel. 215,479, 9–20–69, Cl. D48—20.
Bocade, Emil J., to Keeler Brass Co. Drawer handle. 213,358, 2–25–69, Cl. D10—8.
Bocade, Emil J., to Keeler Brass Co. Drawer pull and back plate therefor. 215,140, 9–9–69, Cl. D8—158.
Bock, Gerald L., and C. Weber. Trailer hitch frame bracket. 213,616, 3–25–69, Cl. D14—6.
Bock, Juergen K.: *See*—
Kukon, John P., Fitzpatrick, and Bock. 213,510.
Bodey, Charles E., to North American Rockwell Corp. Submersible vehicle. 215,972, 11–11–69, Cl. D71—1.
Bodinger, Norman B., to Information Handling Services, Inc. Combined microfilm reader stand and reel storage console. 213,572, 3–18–69, Cl. D33—19.
Bogaerts, Leo C., to Ammco Tools, Inc. Brake bleeder adapter. 214,092, 5–6–69, Cl. D54—13.
Bogan, Robert T., Jr. Grillework. 214,432, 6–17–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,577, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,579, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,580, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,582, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,584, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,585, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,586, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,587, 10–14–69, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 215,650, 10–21–69, Cl. D13—1.
Bogue, Gloria-Jean: *See*—
Perruccio, Claire C., and Bogue. 214,386.
Boileau, Jacques, to Compagnie Generale des Etablissements Michelin-raison sociale Michelin & Cie. Tire. 216,066, 11–18–69, Cl. D90—20.
Boldt, Melvin H., to Schick Electric Inc. Electric shaver. 213,165, 1–7–69, Cl. D95—3.
Boldt, Melvin H., to Rowe International, Inc. Phonograph cabinet. 213,338, 2–18–69, Cl. D56—4.
Boldt, Melvin H., to G. W. Murphy Industries, Inc. Hand drill. 213,850, 4–15–69, Cl. D54—14.
Boldt, Melvin H., to Zenith Radio Corp. Portable radio cabinet. 215,565, 10–7–69, Cl. D56—4.
Boldt, Melvin H., to Rowe International, Inc. Phonograph. 215,760, 10–28–69, Cl. D56—4.
Boldt, Melvin H., to Zenith Radio Corp. Portable radio cabinet. 216,051, 11–18–69, Cl. D56—4.
Bolling, Stewart, & Co., Inc.: *See*—
Matsuoka, James T. 213,138.
Bomba, John R., and W. F. Eberly, to Vasco Metals Corp. Vehicle fender trim. 216,255, 12–9–69, Cl. D14—6.
Bombardier Ltd.: *See*—
Lapointe, Yves A. 216,341.
Lapointe, Yves A. 216,342.
Lapointe, Yves A. 216,343.
Bomber Bait Co.: *See*—
Turbeville, Clarence S., and Walker. 214,897.
Turbeville, Clarence S., and Walker. 214,898.
Bomeisler, Douglas, J. Broderick, I. Gozonsky, and A. B. Pedersen, to Carmen Curler Carbide Corp. Heater housing for hair curlers. 216,349, 12–16–69, Cl. D86—10.
Bond, John L. Cervical collar. 213,742, 4–1–69, Cl. D83—1.
Bond Research Laboratories, Inc.: *See*—
Ball, Lindsay M., and Guaraldi. 215,465.
Bondar, Clement: *See*—
Birchard, Jesse R., Bondar, and Conner. 215,591.
Birchard, Jesse R., Bondar, Conner, and Mortrude. 215,595.
Bonnett, John R.: *See*—
Buseck, Clement C., and Bonnett. 213,984.
Bonny Products, Inc.: *See*—
Steiner, Fred S. 214,078.
Steiner, Fred S. 216,326.
Bonsack. Horst G. Bathtub. 214,270, 5–27–69, Cl. D23—55.
Bonsiepe, Gui, to Patinvest Patent und Investment A.G. Sphygmomanometer. 215,983, 11–11–69, Cl. D83—12.
Boone, Arthur M. Cutting board. 213,989, 4–29–69, Cl. D44—1.
Boone Bait Co., Inc.: *See*—
Showalter, Joseph S. 216,118.
Boothby, Alfons, to Olympia Werke AG. Calculating machine. 215,501, 9–30–69, Cl. D64—11.
Boothby, Alfons, to Olympia Werke AG. Housing for a calculating machine. 215,893, 11–4–69, Cl. D64—11.
Borden, Clarence W., J. Kocsis, and F. W. Kubala, to Goodall Rubber Co. Integral hose and nozzle. 215,091, 9–2–69, Cl. D23—34.
Borg-Warner Corp.: *See*—
Armstrong, William H. 215,656.
Armstrong, William H., and Kuypers. 215,859.
Eklund, Roland G. 214,501.
Kuypers, Norbert T. 215,299.
Borgman, Theodore, Co.: *See*—
Cox, Walter T. 216,151.
Born, Robert E. Tube holder. 215,311, 9–23–69, Cl. D33—22.
Borsheim, Harold G.: *See*—
Dreyfuss, Henry, Conner, Borsheim, Miller, and Gilbert. 213,869.
Borten, Charles H. Garment hanger carrier. 215,999, 11–18–69, Cl. D8—154.
Bos, Charles J., to H. A. Patrick. Fish lure. 214,246, 5–20–69, Cl. D22—27.
Boston, Samuel B. Dispensing stand for a coffee can. 213,329, 2–18–69, Cl. D44—10.
Bostrom, Arthur F. Golf putting game device. 213,892, 4–22–69, Cl. D34—5.
Bothwell, Richard R., to Somerville Industries Ltd. Paper hat. 213,756, 4–8–69, Cl. D2—250.
Bothwell, Richard R., to Somerville Industries Ltd. Paper hat. 213,757, 4–8–69, Cl. D2—250.
Bott, John A. Luggage rack. 215,277, 9–23–69, Cl. D14—27.
Bott, John A. Stanchion for a luggage rack. 215,278, 9–23–69, Cl. D14—27.
Boulay, Thomas H. Building. 215,828, 11–4–69, Cl. D13—1.
Bowman, Dean C., J. R. Waldrop, and G. B. Webb, to General Electric Co. Keyboard for an information processing unit or the like. 214,169, 5–20–69, Cl. D26—5.
Bowser, Inc.: *See*—
Washburn, Billy S. 213,103.
Boydman, Hyman P., to Topper Corp. Mechanism housing for racing toy. 216,205, 12–2–69, Cl. D34—5.
Bozzi, Ann R., to David Traum, Inc. Hem aid and buttonhole guide. 214,688, 7–15–69, Cl. D52—6.
Bradley, Alexander M.: *See*—
Jacobs, Karel, Gugliotta, and Bradley. 216,314.
Jacobs Karel, Gugliotta, Bradley, and Meng. 215,601.
Jacobs, Karel, Gugliotta, Bradley, Wallace, and Mallon. 215,302.
Bradley, Leonard R., to Texas Instruments, Inc. Thermostat. 215,758, 10–28–69, Cl. D52—7.
Bradley, Richard C. Automobile. 214,890, 8–12–69, Cl. D14—3.
Bradley, Robert, to The Dashaveyor Co. Passenger car. 215,503, 9–30–69, Cl. D66—1.
Bradpiece, Sydney: *See*—
Wright, Zane H. 214,400.
Brammer, Gale Z.: *See*—
Smith, Carroll G., and Brammer.
Brancato, Salvatore, and S. Gambelunghi. Lantern stove attachment. 218,652, 3–25–69, Cl. D81—10.
Brand, Charles S. Merchandising display stand for writing instruments and the like. 215,771, 10–28–69, Cl. D80—9.
Brandt, Steven C., to Leon Brandt Inc. Educational responder device. 215,292, 9–23–69, Cl. D25—1.
Branson Instruments, Inc.: *See*—
Rissolo, Herman A. 215,018.
Yurdin, Carl R. 215,017.
Bras S.p.A.: *See*—
Rimini, Tito. 214,234.
Braun Aktiengesellschaft: *See*—
Fischer, Richard. 216,383.
Braun, Samuel: *See*—
Price, Charles B., and Braun. 215,872.
Braun, Samuel, to Metal Design Products, Inc. Silverware display panel for a package or similar article. 213,247, 1–21–69, Cl. D9—253.

Braun, Samuel, to B.C.N. Design Products, Inc. Combined display and storage tray for flatware or the like. 213,281, 1–28–69, Cl. D80—9.

Braund, Gordon L., to Mark VII Industries, Inc. Electrically operated sterilizer assembly for toothbrushes and the like. 214,771, 7–22–69, Cl. D83—1.

Bray, Thomas L.: *See*—
Cofer, Daniel B., and Bray. 213,915.
Cofer, Daniel B., and Bray. 215,879.

Brefka, Paul E., and M. M. Knepp, to Tyco Laboratories, Inc. Electronic battery charger. 213,702, 4–1–69, Cl. D26—15.

Brefka, Paul E., to Aerospace Research, Inc. Instrument housing or similar article. 214,909, 8–12–69, Cl. D26—5.

Breite, Karl-Heinz: *See*—
Kull, Eberhard, Wetzke, Griebel, Breite, and Wiesmair. 216,407.

Brekle, Oliver R., to M & B Metal Products Co. Garment hanger. 214,967, 8–12–69, Cl. D80—8.

Bremshey & Co.: *See*—
Weber, Heinz. 215,519.

Brendgord, Thomas, and J. W. Whrenberg, to American Sterilizer Co. Linen inspection machine. 213,139, 1–7–69, Cl. D55—1.

Brenner, Roy L., to Kinkead Industries Inc. Carpet stretcher. 213,402, 2–25–69, Cl. D54—13.

Bressler, David. Hand washboard. 216,152, 11–25–69, Cl. D49—1.

Briar, Jack E.: *See*—
Talge, Henry J., and Briar. 214,976.

Bricker, Harry C., Jr., to AMP Inc. Electrical clamp. 214,273, 5–27–69, Cl. D26—1.

Bricker, Melvin E. High speed attachment for food cutter. 215,880, 11–4–69, Cl. D55—1.

Brickey, Arthur L., Jr. Bottle. 214,663, 7–15–69, Cl. D9—140.

Brickson, William L., to Bio-Neering, Inc. Cap for multiple injection devices. 214,223, 5–20–69, Cl. D83—12.

Bridgeport Metal Goods Mfg. Co., The: *See*—
Moore, Arthur H., and Bacevius. 213,584.

Bridgford, Hugh H. Bread dough tray. 215,823, 11–4–69, Cl. D9—189.

Brieff, Philip: *See*—
D'Agostino, Vincent F., and Brieff. 214,896.

Brierley, Cuthbert, to Dalton Supplies Ltd. Ankle marker strap for animals. 213,836, 4–15–69, Cl. D30—43.

Briggin, Edward: *See*—
Katzman, Lawrence, and Briggin. 214,051.
Katzman, Lawrence, Briggin, and Levin. 214,563.
Katzman, Lawrance, Briggin, and Levin. 215,845.

Briggs & Stratton Corp.: *See*—
Harkness, Joseph R. 215,769.
Lechtenberg, Leo J., and Harkness. 213,476.

Bright, John K., to Lawry's Foods, Inc. Bottle. 214,876, 8–12–69, Cl. D9—137.

Bright, Stephen K., to Bausch & Lomb Inc. Magnifier. 214,137, 5–13–69, Cl. D57—1.

Brindley, Robert E., D. O. Chase, and W. W. Sammons, to Union Carbide Corp. Portable electric lantern. 213,635, 3–25–69, Cl. D48—24.

Bristol-Myers Co.: *See*—
MacLachlan, William B., Aherne, and Morgan. 215,649.

British Oxygen Co., The: *See*—
Foxell, Jack S. 213,489.

Broadus, Jerry N., R. R. Faerber, H. S. Noel, K. H. Stokes, and D. C. Union, to International Business Machines Corp. Operator's console for a data control system. 215,659, 10–21–69, Cl. D26—5.

Brockway, Brock F., to E. D. Bullard Co. First aid kit box. 216,172, 11–25–69, Cl. D87—1.

Broderick, James: *See*—
Bomeisler, Douglas, Broderick, Gozonsky, and Pedersen. 216,849.

Brodsky, David L.: *See*—
Brodsky, Elliott J. and D. L. 213,408.

Brodsky, Elliott J. and D. L. Urine container. 213,408, 2–25–69, Cl. D83—1.

Broman, William G.: *See*—
Patch, Alan R., and Broman. 216,019.

Bronner, Fred, Corp.: *See*—
Resnick, Charles. 214,218.
Resnick, Charles. 214,351.

Brooks, Gregory W., to Star Dental Mfg. Co., Inc. Foot control for dental equipment. 215,720, 10–28–69, Cl. D24—1.

Brooks & Porter, Inc.: *See*—
Paige, Richard E. 214,262.

Brosk, Jeffrey O. Chair or the like. 216,111, 11–25–69, Cl. D15—1.

Broughton, Robert V. Compound lug wrench tool. 213,468, 3–4–69, Cl. D54—13.

Brounn, Morrison J., to Otis Elevator Co. Position indicator panel for elevators. 214,705, 7–15–69, Cl. D72—1.

Broussard, Paul D. Stringed musical instrument. 215,353, 9–23–69, Cl. D56—1.

Broussard, Paul D. Stringed musical instrument. 215,354, 9–23–69, Cl. D56—1.

Brown, Arnold C. Truck for dispensing ice cream or the like. 214,784, 7–29–69, Cl. D14—3.

Brown, Carl R.: *See*—
Mueller, Leonard E. 214,577.

Brown, Charles L. Building. 215,578, 10–14–69, Cl. D13—1.

Brown, Dick L. and N. D., and E. R. Comstock. Bicycle seat. 213,656, 3–25–69, Cl. D90—16.

Brown, Ellsworth R.: *See*—
Jacobs, Julian R., Brown, and Amero. 215,530.
Jacobs, Julian R., Brown, and Amero. 215,531.
Jacobs, Julian R., Brown, and Rode. 215,528.

Brown, Ellsworth R., and R. J. Rode, to The Armstrong Rubber Co. Tire. 215,525, 9–30–69, Cl. D90—20.

Brown, Ellsworth R., and R. J. Rode, to The Armstrong Rubber Co. Tire. 215,526, 9–30–69, Cl. D90—20.

Brown, Ellsworth R., and R. J. Rode, to The Armstrong Rubber Co. Tire. 215,527, 9–30–69, Cl. D90—20.

Brown, Harry M., Jr. Humming bird feeder. 216,199, 12–2–69, Cl. D30—14.

Brown, Harry M., Jr. Humming bird feeder. 216,200, 12–2–69, Cl. D30—14.

Brown, Nora D.: *See*—
Brown, Dick L. and N. D., and Comstock. 213,656.

Brown, Thomas E.: *See*—
Swett, James B., and Brown. 214,933.
Swett, James B., and Brown. 216,215.

Brubaker, Curtis M., to Adams Rite Mfg. Co. Faucet assembly. 215,600, 10–14–69, Cl. D23—25.

Bruce Mfg., Inc.: *See*—
Figura, William L. 214,434.

Bruce Molded Plastic Products Inc.: *See*—
Marks, Lou F. 216,076.

Bruce, Robert A., to Corning Glass Works. Cover for a bowl or the like. 213,390, 2–25–69, Cl. D44—15.

Bruckner, August A. Fishing lure. 215,090, 9–2–69, Cl. D22—27.

Brugger, Richard G.: *See*—
Arthur, Richard J., Aberle, Carswell, and Brugger. 214,200.

Brunetti, Lawrence G., L. W. Gilmore, J. R. Goodrich, J. F. and V. H. Henshaw, and R. G. Richards, to EG & G, Inc. Enclosure for electronic equipment. 215,005, 8–19–69, Cl. D26—5.

Bruno, Joseph. Lighting fixture for walls or the like. 213,391, 2–25–69, Cl. D48—4.

Brunson, Thayer R.: *See*—
Davis, Harold G., and Brunson. 214,564.

Brunswick Corp.: *See*—
Johnson, Robert T., Miller, and Schwab. 215,504.
Kiekhaefer, Elmer C. 214,266.
Lysaght, John R. 215,608.
Reineman, Richard G. 213,234.
Schaefer, George E. 214,567.
Schaefer, George E. 214,674.

Bryan, Hugh D., to Mead Johnson & Co. Vitamin tablet or similar article. 213,873, 4–22–69, Cl. D16—3.

Bryant, Bruce W.: *See*—
Calkins, Dale E., and Bryant. 215,370.

Buccino, Gaetano S., and J. M. Granowitz, to American Cyanamid Co. Locking stackable suture box cabinet. 213,323, 2–18–69, Cl. D33—19.

Buchsbaum, Alan, and K. Morimoto. Hassock or the like. 216,012, 11–18–69, Cl. D15—8.

Buck, Thomas O. Heat exchange housing for television cameras and the like. 213,300, 2–4–69, Cl. D61—1.

Bucyrus-Erie Co.: *See*—
Barnes, Leo, Rhoades, and Talley. 213,437.

Budda, Lee F.: *See*—
Dahlman, William J., and Budda. 214,445.

Buff, George J., Jr. Foil packaging tray. 213,356, 2–25–69, Cl. D9—189.

Buizzo, Chris. Combined display and dispensing stand for dice. 214,654, 7–8–69, Cl. D80—9.

Bullard, E. D., Co.: *See*—
Brockway, Brock F. 216,172.

Bulova Watch Co., Inc.: *See*—
Beck, Philip. 214,160.

Bundschuh, John J., to Eastman Kodak Co. Film cartridge or the like. 215,359, 9–23–69, Cl. D61—1.

Bundschuh, John J., to Eastman Kodak Co. Film cartridge or the like. 215,360, 9–23–69, Cl. D61—1.

Bundschuh, John J., to Eastman Kodak Co. Film cartridge or the like. 215,361, 9–23–69, Cl. D61—1.

Bunker-Ramo Corp., The: *See*—
Gilson, Channing W. 213,831.
Wahlenmeier, Frederick E., Podoloff, and Bell. 213,729.

Bunn-O-Matic Corp.: *See*—
Martin, John C. 214,480.

Bunyea, Roderick F.: *See*—
Ballone, Michael P., Bunyea, and Fritts. 214,987.
Chase, David O., and Bunyea. 213,128.

Burbage, Otis R., Jr.: *See*—
Adams, Charles R., Burbage, and Stancil. 214,110.

Burch, William E. Portable lantern. 213,636, 3–25–69, Cl. D48—24.

Burford, Charles E. Bread pan. 214,073, 5–6–69, Cl. D44—1.

Burger Chef Systems, Inc.: *See*—
Thomas, Donald J. 213,093.

Burgess Vibrocrafters, Inc.: *See*—
Anderson, Douglas W. 213,152.
Anderson, Douglas W. 214,111.

Burkart, Jacob M.: *See*—
Rodmaker, Gerald M., and Burkart. 215,318.

Burkett, Wilford B., A. J. Carsello, and H. I. Hazzard, to McCulloch Corp. Chain saw. 213,939, 4–22–69, Cl. D93—3.

Burlington Industries, Inc.: *See*—
Fillmore, Leland A., and Butler. 215,641.

Burns, Denis H.: *See*—
O'Brien, Kevin M., and Burns. 213,305.

Burns, Harry. Physical exercising appliance. 213,119, 1–7–69, Cl. D34—5.
Burns, Robert B. Envelope feeder for a printing press. 213,340, 2–18–69, Cl. D64—11.
Burnstein, Philip J.: *See*—
Shaffer, Burton, and Burnstein. 215,657.
Burridge, Michael D., to Sylvania Electric Products Inc. Exhaust analyzer or similar apparatus. 215,493, 9–30–69, Cl. D52—6.
Burrough, Alan, to James Burrough, Ltd. Bottle. 213,092, 1–7–69, Cl. D9—159.
Burrough, James, Ltd.: *See*—
Burrough, Alan. 213,092.
Burroughs Corp.: *See*—
Hopkins, Kenneth A., and Connor. 213,921.
Burys, Linas, to Lino Engineering, Inc. Sauna heater. 214,790, 7–29–69, Cl. D23—84.
Bus, Andre: *See*—
Thorn, John B., and Bus. 214,671.
Thorn, John B., and Bus. 214,673.
Buseck, Clement C., and J. R. Bonnett, to Louis Marx & Co., Inc. Toy gun. 213,984, 4–29–69, Cl. D34—15.
Bush, Clarence E., to Radio Corp. of America. Tape reel or similar article. 213,699, 4–1–69, Cl. D26—14.
Business Supplies Corp. of America: *See*—
Smith, Gordon, and Kress. 214,163.
Butler Mfg. Co.: *See*—
Orr, Robert P. 213,248.
Butler, Vaughn H.: *See*—
Fillmore, Leland A., and Butler. 215,641.
Bydalek, Floyd J.: *See*—
Lukas, Gus J., and Bydalek. 213,726.
Byers, Donald W. Combined mirror and locker door receptacle. 214,512, 6–24–69, Cl. D33—33.
Byrne, John R.: *See*—
Orth, Henry W., and Byrne. 214,236.
Byrnes, Raymond R. Portable carpet sample hook. 214,591. 7–1–69, Cl. D54—13.
Cabell, Douglas N., to Ronson Corp. Vegetable shredder or the like. 213,244, 1–14–69, Cl. D89—1.
Cabell, Douglas N., to Ronson Corp. Household appliance cabinet or similar article. 214,062, 5–6–69, Cl. D33—19.
Cable Electric Products, Inc.: *See*—
Le Vaggi, Gloria. 216,327.
Cacciacarne, Ernest D., and D. Sommer. Boat. 216,379, 12–23–69, Cl. D71—1.
Cadillac Gage Co.: *See*—
Bemis, James M. 216,300.
Cal-West Electric, Inc.: *See*—
Debella, Gasper V. 216,254.
Calderoni, Marilyn, and E. P. Cheslock, to E. W. Bliss Co. Alarm signal box housing. 216,345, 12–16–69, Cl. D72—1.
Calgon Corp.: *See*—
Swartz, William E., and Smith. 214,255.
California Custom Accessories Mfg. Co.: *See*—
Kraus, Alex. 213,403.
Calkins, Dale E., and B. W. Bryant. Boat. 215,370, 9–23–69, Cl. D71—1.
Callaghan, John D., to Radio Corp. of America. Antenna for a radio or television set. 213,968, 4–29–69, Cl. D26—14.
Callahan, Clint C., Jr. Food serving tongs or the like. 215,468, 9–30–69, Cl. D44—4.
Cammack, Michael A.: *See*—
Slee, Maxie E., Johnson, Lee, and Cammack. 216,235.
Campbell, Charles F. Wire straightener. 215,406, 9–30–69, Cl. D8—44.
Campbell, Duncan H., to Wilson & Cousins Co., Ltd. Fire hoze nozzle. 215,844, 11–4–69, Cl. D23—34.
Campbell, John B., and W. R. Horne, to The Procter & Gamble Co. Jug. 214,421, 6–17–69, Cl. D9—42.
Campbell, Laurie J., to Marx, Louis & Co., Inc. Toy shooting target or similar article. 214,065, 5–6–69, Cl. D34—5.
Campbell, Laurie J., to Louis Marx & Co., Inc. Toy vehicle. 215,167, 9–9–69, Cl. D34—15.
Campbell, Laurie J., to Louis Marx & Co. Inc. Toy vehicle. 215,862, 11–4–69, Cl. D34—15.
Campbell, Laurie J., to Louis Marx & Co., Inc. Tricycle. 216,209, 12–2–69, Cl. D34—15.
Canfield, Albert A., to Oakland Community College. Study carrel. 213,883, 4–22–69, Cl. D33—11.
Canney, Robert S., to General Electric Co. Instrument transformer. 215,447, 9–30–69, Cl. D26—15.
Cannon, James W. Sawhorse. 213,400, 2–25–69, Cl. D54—1.
Cannon Mills Co.: *See*—
Ball, Stanley. 215,784.
Ball, Stanley. 215,795.
Ball, Stanley. 215,796.
Clementi, Leonard C. 215,638.
Clementi, Leonard C. 215,785.
Clementi, Leonard C. 215,786.
Clementi, Leonard C. 215,789.
Clementi, Leonard C. 215,790.
Clementi, Leonard C. 215,791.
Clementi, Leonard C. 215,792.
Clementi, Leonard C. 215,793.
Clementi, Leonard C. 215,794.
Clementi, Leonard C. 215,797.
Clementi, Leonard C. 215,798.
Clementi, Leonard C. 215,799.
Clementi, Leonard C. 215,911.
Clementi, Leonard C. 215,914.
Clementi, Leonard C. 216,239.
Clementi, Leonard C. 216,240.
Cannon Mills Co.: *See*—Continued
Clementi, Leonard C. 216,417.
Haney, Joyce E. 216,416.
Kanitz, Emeric. 213,754.
Scherer, Nancy A. 215,637.
Taiman, Edward C. 215,636.
Taiman, Edward C. 215,639.
Weinstein, Joseph. 216,068.
Willoughby, Connie C. 216,174.
Willoughby, Connie C. 216,175.
Willoughby, Connie C. 216,176.
Willoughby, Connie C. 216,177.
Willoughby, Connie C. 216,178.
Willoughby, Connie C. 216,418.
Cannon Rubber Manufacturers Ltd., The: *See*—
Atkin, David. 215,207.
Cantrell, Elrvan C. Display stand for dishes and the like. 215,628, 10–14–69, Cl. D80—9.
Cantrell, Elrvan C. Display stand for dishes and the like. 216,280, 12–9–69, Cl. D80—9.
Capital Controls Co., Inc.: *See*—
Stenberg, Nyyvrikki K. 213,294.
Capozzi, John M. Retaining stand for small containers or similar articles. 216,236, 12–2–69, Cl. D86—10.
Capps, Donald J. Barbecue and fireplace tongs. 213,194, 1–14–69, Cl. D23—100.
Car Tapes, Inc.: *See*—
La Zar, Ralph M., and Vanderhoef. 215,853.
Cardoso, Marc A., to S. Chayes. Helicopter. 213,650, 3–25–69, Cl. D71—1.
Carew, Arthur, to Lilli Ann Corp. Coat. 213,608, 3–18–69, Cl. D2—183.
Carew, Arthur, Lilli Ann Corp. Fur trimmed coat. 214,010, 5–6–69, Cl. D2—198.
Carignan, Robert L., to Hasbro Industries, Inc. Ball scoop. 216,138, 11–25–69, Cl. D34—5.
Carlson, Arthur W., and T. C. Linacre, to E. H. Sheldon & Co. Laboratory table unit. 215,281, 9–23–69, Cl. D16—2.
Carlson, Christopher C. Marine hatch. 215,624, 10–14–69, Cl. D71—1.
Carlson Industries: *See*—
Stevens, Walter A., and Carlson. 215,003.
Carlson, Le Roy B. Home and garden apparatus. 215,629, 10–14–69, Cl. D81—10.
Carlson, Raymond L., Jr.: *See*—
Martin, Richard C., and Carlson. 216,352.
Carlson, Richard E.: *See*—
Stevens, Walter A., and Carlson. 215,003.
Carlson, Robert O., to SCM Corp. Teleprinter cabinet. 214,852, 8–5–69, Cl. D64—11.
Carlton, Bruce. Decorative paddle. 213,383, 2–25–69, Cl. D34—5.
Carmen Curler Carbide Corp.: *See*—
Bomeisler, Douglas, Broderick, Gozonsky, and Pedersen. 216,349.
Carnahan, John T., to O & R Engines, Inc. Chain saw. 214,777, 7–29–69, Cl. D8—65.
Carpenter, Herbert R., to Andis Clipper Co. Stand for a self-charging hair clipper. 215,303, 9–23–69, Cl. D26—15.
Carpenter, Herbert R., to Andis Clipper Co. Hair clipper. 215,683, 10–21–69, Cl. D95—3.
Carpenter, Joseph D., and F. E. Golding, to Aeon Industries, Inc. d.b.a. Pride Products Co. Baby walker. 213,550, 3–18–69, Cl. D15—1.
Carpenter, Lindell O., and R. M. Ferguson, to Container Corp. of America. Goggles. 214,258, 5–27–69, Cl. D2—234.
Carroll, Michael W. Combination cup dispenser and toothbrush holder. 215,551, 10–7–69, Cl. D33—26.
Carsello, Anthony J.: *See*—
Burkett, Wilford B., Carsello, and Hazzard. 213,939.
Carson, Robert C. Combined cutter and tenderizer for frankfurters or the like. 214,772, 7–22–69, Cl. D89—1.
Carson Valley Meat Co.: *See*—
Mendes, William E. 214,067.
Carswell, James G.: *See*—
Arthur, Richard J., Aberle, Carswell, and Brugger. 214,200.
Carter, Lawrence. Combined bottle, cap and nail polish applicator. 215,083, 9–2–69, Cl. D9—10.
Carthage Cup Co.: *See*—
Lockhart, Andrew P., and Hubbard. 213,173.
Cartiera Di Cairate S.p.A.: *See*—
Shapira, Nathan. 213,219.
Case, J. I., Co.: *See*—
Lazzeroni, Edward J. 216,011.
Renquist, Bruce L. 213,312.
Renquist, Bruce L. 214,127.
Cashman, Arthur G. Drawer for a shoe chest. 214,920, 8–12–69, Cl. D33—6.
Casorati, Pierre L., to Le Phare S.A. Expandable watchband. 213,462, 3–4–69, Cl. D45—4.
Cassady, Samuel G., to J. A. Chambliss. Mower drum. 213,712, 4–1–69, Cl. D40—4.
Castellano, Angelo. Combined eyeglasses and flashlights therefor. 215,751, 10–28–69, Cl. D48—24.
Castloo, Thomas F. Boat paddle. 213,472, 3–4–69, Cl. D71—1.
Castorani, Francesco P. Table cloth. 214,120, 5–6–69, Cl. D92—26.
Castro, Albert J.: *See*—
Anderson, Frank R., and Castro. 213,470.
Anderson, Frank R., and Castro. 214,534.

Cathers, Richard T., and J. Morris, to McDonnell Douglas Corp. Airplane. 214,597, 7–1–69, Cl. D71—1.
Cauthen, Jack C. Garment hanger. 213,929, 4–22–69, Cl. D80—8.
Cavenah, David K. Hydrotherapy pool. 213,534, 3–11–69, Cl. D83—1.
Ceccacci, Charles. Case for an underwater camera. 215,498, 9–30–69, Cl. D61—1.
Cecchine, Joseph R., to Johns-Manville Corp. Floor covering or similar article. 213,554, 3–18–69, Cl. D18—2.
Cecchine, Joseph R., to Johns-Manville Corp. Floor covering or similar article. 214,495, 6–24–69, Cl. D18—2.
Ceramics of Kansas, Inc.: *See*—
Salmans, Robert R. 213,997.
Cervantes, Felipe, to Infonics, Inc. Tape duplicator. 215,544, 10–7–69, Cl. D26—14.
Chai-Wan, Leung: *See*—
Tsoo-Hing, Leung, and Chai-Wan. 216,370.
Chambliss, John A.: *See*—
Cassady, Samuel G. 213,712.
Champion Heater Co., Inc.: *See*—
Ringis, Monroe E. 215,094.
Champlin-Haskins Inc.: *See*—
Haskins, Jerry D. 214,441.
Chandler, Wesley M., and B. T. Juba, to Wilbert, Inc. Combination casket and burial vault. 213,689, 4–1–69, Cl. D19—1.
Chandler, Wesley M., and B. T. Juba, to Wilbert, Inc. Cremation urn. 213,777, 4–8–69, Cl. D19—1.
Chandler, Wesley M., and B. T. Juba, to Wilbert, Inc. Cremation urn. 214,894, 8–12–69, Cl. D19—1.
Chang, Humphrey, to Studio T Ltd. T-square. 215,757, 10–28–69, Cl. D52—6.
Channell, William H. Grade level housing for telephone, television, signal and electric power cables. 214,910, 8–12–69, Cl. D26—5.
Chapin, Richard M., to C. B. Atkin Co. Bed head board or the like. 215,804, 11–4–69, Cl. D5—4.
Chapin, Richard M., to C. B. Atkin Co. Bed head board or the like. 215,805, 11–4–69, Cl. D5—4.
Chapin, Richard M., to C. B. Atkin Co. Furniture door pediment or the like. 215,856, 11–4–69, Cl. D33—1.
Chapin, Richard M., to C. B. Atkin Co. Mirror or the like. 216,132, 11–25–69, Cl. D33—9.
Chapin, Roger F., Jr., to Westinghouse Electric Corp. Dehumidifier. 214,904, 8–12–69, Cl. D23—146.
Char-Lynn Co.: *See*—
Gens, Jerald H. 215,935.
Charger Corp.: *See*—
Cheris, Maynard H., Bigos, and Mox. 216,028.
Charity, Lawrence E.: *See*—
Sewell, Lisa, and Charity. 214,226.
Charmglow Mfg. Co.: *See*—
Koziol, Walter. 213,533.
Koziol, Walter. 214,707.
Koziol, Walter. 215,630.
Koziol, Walter. 216,027.
Koziol, Walter. 216,230.
Chase, David O.: *See*—
Brindley, Robert E., Chase, and Sammons. 213,635.
Chase, David O., and R. F. Bunyea, to R. E. Dietz Co. Vehicle lamp lens. 213,128, 1–7–69, Cl. D48—32.
Chaumont, Guy-Noel. Endless flexible track unit. 216,301, 12–16–69, Cl. D14—24.
Chayes, Samuel: *See*—
Cardoso, Marc A. 213,650.
Chelmo, Leon A., and J. E. Schuh. Surface angle inspection tool. 213,522, 3–11–69, Cl. D52—6.
Chemetron Corp.: *See*—
Hammon, George L. 215,001.
Cheng, Cho-Tan. Photographic transparency viewer. 214,140, 5–13–69, Cl. D61—1.
Chenkin, Leila R. Butter pat dispenser. 215,348, 9–23–69, Cl. D52—2.
Cheris, Maynard H., A. A. Bigos, and D. W. Mox, to Charger Corp. Tennis racket frame. 216,028, 11–18–69, Cl. D34—5.
Cherry, Allen B., to W. O. Gifford and A. Smith. Crawling trainer for infants. 213,370, 2–25–69, Cl. D25—1.
Cherry, Ruth W. Receptacle support or the like. 216,266, 12–9–69, Cl. D33—3.
Cheslak, Leonard W. Soft wrappings cutter. 214,121, 5–6–69, Cl. D95—3.
Cheslock, Edward P.: *See*—
Calderoni, Marilyn, and Cheslock. 216,345.
Cheslock, Edward P., to E. W. Bliss Co. Traffic signal. 213,925, 4–22–69, Cl. D72—1.
Cheslock, Edward P., to E. W. Bliss Co. Portable light. 214,254, 5–20–69, Cl. D48—24.
Chew, Reine. Collapsible saw horse leg. 213,399, 2–25–69, Cl. D54—1.
Chi, Yiu D., to Forda Manufacturing Co., Ltd. Vacuum cleaner for an automobile. 214,084, 5–6–69. Cl. D49—13.
Chi, Yiu D., to Forda Manufacturing Co., Ltd. Flashing lamp device for attachment to a vehicle or the like. 214,396, 6–10–69, Cl. D48—32.
Chicago Display Co.: *See*—
Hildebrand, Edward, Jr. 215,271.
Chicago Pneumatic Tool Co.: *See*—
Schaedler, Raymond J. 214,776.
Chicken Delight, Inc.: *See*—
Schmid, Fred. 213,825.
Chila, Shun-Shing. Dragon boat. 214,467, 6–17–69, Cl. D71—1.
Child Guidance Toys Inc.: *See*—
Genin, Robert. 214,068.
Chipping, William S., to Northern Electric Co., Ltd. Projector support housing. 215,362, 9–23–69, Cl. D61—1.
Chmela, John F., and J. E. Schiltz. Whistle. 215,107, 9–2–69, Cl. D34—15.
Chriss, Stephen. Load cell for measuring loads on structural members. 215,069, 8–26–69, Cl. D52—6.
Christensen, John R. Calendar or the like. 213,598, 3–18–69, Cl. D74—5.
Christensen, John R. Lidded beer mug. 214,639, 7–8–69, Cl. D44—9.
Christiansen, Godtfred K. Microphone housing. 214,452, 6–17–69, Cl. D26—14.
Christie, James. Carrying bag for laundry and the like. 215,343, 9–23–69, Cl. D49—8.1.
Christopher, Garth D., and F. Offenhauser. Bottle carrier. 214,720, 7–22–69, Cl. D9—176.
Chuboff, David P., and J. P. Stevens, to Zenith Radio Corp. Cardiac pacing unit. 216,381, 12–23–69, Cl. D83—1.
Churan, Roy G., to Bennett Industries, Inc. Industrial shipping container. 214,997, 8–19–69, Cl. D9—216.
Cino, Samuel J.: *See*—
Knowles, Arthur N., and Cino. 213,263.
Cities Service Oil Co.: *See*—
Freed, Leonard N. 214,946.
Clark, Clayton H., and G. M. Adams, to SCM Corp. Printer cabinet. 215,037, 8–19–69, Cl. D64—11.
Clark, Edward M., to Kiddie Tot Hosiery Mills, Inc. Sock. 214,301, 6–3–69, Cl. D2—334.
Clark Equipment Co.: *See*—
Birchard, Jesse R., Bondar, and Conner. 215,591.
Birchard, Jesse R., Bondar, Conner, and Mortrude. 215,595.
Birchard, Jesse R., Mortrude, and Conner. 215,592.
Birchard, Jesse R., Mortrude, and Conner. 215,593.
Birchard, Jesse R., Mortrude, and Conner. 215,594.
Birchard, Jesse R., Mortrude, and Conner. 216,387.
Clark, J. L., Mfg. Co.: *See*—
Foster, John A. 214,540.
Clark, John T. Pie funnel. 216,147, 11–25–69, Cl. D44—29.
Clark, Philip B., and P. J. Curtin, to McGraw-Edison Co. Luminaire. 213,393, 2–25–69, Cl. D18—31.
Clark, Virgil R. Weed digger. 215,806, 11–4–69, Cl. D8—4.
Clarke, Christopher H. Fruit segmenter. 213,486, 3–4–69, Cl. D89—1.
Clarke, David E., and R. W. Peterson, to Texas Instruments Inc. Combined switch and indicator hood therefor. 214,450, 6–17–69, Cl. D26—13.
Clarke, George C., J. R. Mango, and R. M. Goodman, to Roper Corp. Tractor. 213,682, 4–1–69, Cl. D14—3.
Clarke, Norman A., to The Columbia Mfg. Co., Inc. Bicycle handlebar. 214,114, 5–6–69, Cl. D90—11.
Classips Inc.: *See*—
Dieffenbach, Otto W., Jr. 213,578.
Claybaugh, Glen A.: *See*—
Barton, Raymond W., and Claybaugh. 215,253.
Clayton, La Verne E., to Amerock Corp. Combined pull and backing plate. 213,432, 3–4–69, Cl. D10—8.
Clayton, La Verne E., to Amerock Corp. Hinge. 213,433, 3–4–69, Cl. D10—9.
Clayton, La Verne E., to Amerock Corp. Pull. 214,029, 5–6–69, Cl. D10—8.
Clayton, La Verne E., to Amerock Corp. Combined pull and escutcheon plate. 214,030, 5–6–69, Cl. D10—8.
Clayton, La Verne E., to Amerock Corp. Knob. 214,714, 7–22–69, Cl. D8—144.
Clayton, La Verne E., to Amerock Corp. Escutcheon plate. 215,082, 9–21–69, Cl. D8—179.
Cleeland, Raymond T., to American Home Products Corp. Spoon or similar article. 215,182, 9–9–69, Cl. D54—12.
Cleland, Charles C., to Herald Corp. Carrier handle for garment hangers. 214,417, 6–17–69, Cl. D8—154.
Clementi, Leonard C., to Cannon Mills Co. Pillowcase or similar article of bed linen. 215,638, 10–14–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Fabric or similar article. 215,785, 10–28–69, Cl. D92—1.
Clementi, Leonard C., to Cannon Mills Co. Bedspread or similar article. 215,786, 10–28–69, Cl. D92—2.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 215,789, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 215,790, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 215,791, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Washcloth or similar article. 215,792, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Pillowcase or similar article of bed linen. 215,793, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 215,794, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Washcloth or similar article. 215,797, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 215,798, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Pillowcase or similar article of bed linen. 215,799, 10–28–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Textile fabric. 215,911, 11–4–69, Cl. D92—1.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 215,914, 11–4–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Textile fabric. 216,239, 12–2–69, Cl. D92—1.

Clementi, Leonard C., to Cannon Mills Co. Pillowcase or similar article of bed linen. 216,240, 12–2–69, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 216,417, 12–30–69, Cl. D92—26.
Clerico, Louis R. Bar cabinet or similar article. 213,381, 2–25–69, Cl. D33—19.
Cleveland, Don B.: *See*—
Baugh, Benjamin C., and Cleveland. 213,559.
Clevenger, Juel D.: *See*—
Muller, Frederick W., and Clevenger. 213,170.
Clevenger, Juel D., to Cook Chemical Co. Hand pump for spraying liquids or the like. 213,179, 1–14–69, Cl. D9—276.
Clevite Corp.: *See*—
Doman, Donald W. 213,126.
Cline, Jack V., to Tee-Pak, Inc. Food display package. 214,486, 6–24–69, Cl. D9—216.
Cline, Jack V., to Tee-Pak, Inc. Food display package. 214,996, 8–19–69, Cl. D9—191.
Cline, Jack V., to Tee-Pak, Inc. Food display package. 215,825, 11–4–69, Cl. D9—239.
Cline, Nathan R. Desk set of marking pens and ink well. 214,105, 5–6–69, Cl. D74—5.
Cline, Ted L. Deep tillage plow. 216,143, 11–25–69, Cl. D40—1.
Clopay Corp.: *See*—
Knight, Harry F., Jr., and Coyle. 215,671.
Coast Calamaran Corp.: *See*—
Alter, Hobard L. 214,766.
Coche-Allet, Pierre, to J.-J. Goupil. Container for storing and intermixing dental amalgam materials. 214,555, 7–1–69, Cl. D9—216.
Cocks, Alexander C., to Allied Ironfounders Ltd. Joint spanner wrench. 215,537, 10–7–69, Cl. D8—27.
Cofer, Daniel B., and T. L. Bray, to Southwire Co. Metal casting machine. 213,915, 4–22–69, Cl. D55—1.
Cofer, Daniel B., and T. L. Bray, to Southwire Co. Continuous casting machine. 215,879, 11–4–69, Cl. D55—1.
Cohen, Martin B. Musical instrument. 215,123, 9–2–69, Cl. D56—1.
Cohen, Melvin, to Melrose Displays, Inc. Tiered display rack. 214,603, 7–1–69, Cl. D80—10.
Cohen, Melvin. Display rack for books, magazines or the like. 215,902, 11–4–69, Cl. D80—9.
Cohen, Milton H., 15% to R. E. Herz, 15% to H. W. McCray, 15% to S. Prince, and 5% to A. C. Brown. Airport terminal. 214,366, 6–10–69, Cl. D13—1.
Cohen, Morris. Seat cushion. 213,551, 3–18–69, Cl. D15—8.
Cohen, Nathan. Flying toy. 216,319, 12–16–69, Cl. D34—15.
Cohen, Samuel W., and L. Mandelbaum. Pocket refractor. 213,918, 4–22–69, Cl. D57—1.
Cohn, Irwin. Climbing rope. 214,570, 7–1–69, Cl. D34—5.
Cohn, Irwin. Roped swing seat or similar article. 214,571, 7–1–69, Cl. D34—5.
Cohn, Irwin. Climbing ladder or similar article. 214,572, 7–1–69, Cl. D34—5.
Cohn, Irwin. Swing ring or similar article. 214,573, 7–1–69, Cl. D34—5.
Cohn, Irwin. Swing loop or similar article. 214,574, 7–1–69, Cl. D34—5.
Cohn, Irwin. Swing seat or similar article. 215,105, 9–2–69, Cl. D34—5.
Cohn, Irwin. Child's vehicle. 215,108, 9–2–69, Cl. D34—15.
Cohn, Irwin. Swing seat or similar article. 215,211, 9–16–69, Cl. D15—11.
Cohn, Irwin. Riding toy. 215,224, 9–16–69, Cl. D34—15.
Cohn, Irwin. Saddle toy or similar article. 215,225, 9–16–69, Cl. D34—15.
Cohn, Irwin. Swing seat or similar article. 215,860, 11–4–69, Cl. D34—5.
Colborn, Richard C. Basin. 213,558, 3–18–69, Cl. D23—38.
Coleco Industries, Inc.: *See*—
Diemond, Joseph, Gershman, and Ravreby. 216,260.
Coleman Co., Inc., The: *See*—
Baugh, Benjamin C., and Cleveland. 213,559.
Deines, Robert R., Tierney, and Swadley. 215,381.
Dienes, Robert R., Tierney, and Swadley. 215,382.
Coleman Co., The: *See*—
Gruver, Floyd O., Jr., and Marsh. 216,233.
Colgate-Palmolive Co.: *See*—
Douglas, Livingston C. 213,542.
Douglas, Livingston C. 213,543.
Douglas, Livingston C. 214,485.
Koenigsberg, Victor. 213,545.
Koenigsberg, Victor. 214,780.
Koenigsberg, Victor. 214,873.
Koenigsberg, Victor, and Amburgey. 213,544.
Collie, Stafford D., to Phillips Petroleum Co. Packaging container or the like. 213,310, 2–18–69, Cl. D9—219.
Collins, Edwin S., Jr.: *See*—
Mango, Joseph R., Hendricks, and Collins. 216,167.
Collins, Walter W. Tail for fishing lure. 213,497, 3–11–69, Cl. D22—27.
Collura, Francesco, to Keuffel & Esser Co. Portable data recorder. 213,319, 2–18–69, Cl. D26—5.
Colman, James N. Novelty vehicle accessory. 213,182, 1–14–69, Cl. D14—6.
Colonna, George A. Combined corner cabinet and lavatory. 214,443, 6–17–69, Cl. D23—59.
Columbia Broadcasting System, Inc.: *See*—
Adickes, Cecil F., and Schmidt. 215,244.
Fender, Clarence L. 214,592.
Fields, Grover G. 213,646.
Fields, Grover G., and Spranger. 213,647.
Thompson, Josephus B. 215,888.
Columbia Mfg. Co., Inc., The: *See*—
Clarke, Norman A. 214,114.
Columware, Inc.: *See*—
Gilson, Channing W. 215,533.
Colwell, Guy J., E. Libby, C. G. Shireman, and D. Weissman, to Mattel, Inc. Combined locket and doll. 215,234, 9–16–69, Cl. D45—15.
Colwell, Guy J., E. Libby, C. G. Shireman, and D. Weissman, to Mattel, Inc. Combined locket and doll. 215,334, 9–23–69, Cl. D45—15.
Combs, John M., to Mead-Suydam Co. Display stand. 215,900, 11–4–69, Cl. D80—9.
Compagnie Generale des Eaux: *See*—
Blanchard, Paul R. 213,961.
Compagnie Generale des Etablissements Michelin-raison sociale Michelin & Cie: *See*—
Boileau, Jacques. 216,066.
Composite Structures Inc.: *See*—
Duckett, John W., Poehlmann, and Scott. 215,712.
Comptoir des Machines S.A.: *See*—
Wenger, Fritz J. 215,249.
Compton, Richard R. Container for microscopic glass beads used for cleaning and deburring. 213,638, 3–25–69, Cl. D49—1.
Comstock, Ernest R.: *See*—
Brown, Dick L. and N. D., and Comstock. 213,656.
Cone, Clyde C. Heater for thermally expanding bearings for mounting purposes or the like. 215,093, 9–2–69, Cl. D25—77.
Congdon, George L., to McGraw-Edison Co. Hedge trimmer. 215,265, 9–23–69, Cl. D8—8.
Conklin, Carroll C., Jr. Tooth cleaning device. 215,802, 11–4–69, Cl. D4—24.
Conland, Robert S., to Oneida Ltd. Spoon or similar article. 216,048, 11–18–69, Cl. D54—12.
Conner, James M.: *See*—
Dreyfuss, Henry, Conner, Borsheim, Miller, and Gilbert. 213,869.
Conner, Ray C.: *See*—
Birchard, Jesse R., Bondar, and Conner. 215,591.
Birchard, Jesse R., Bondar, Conner, and Mortrude. 215,593.
Birchard, Jesse R., Mortrude, and Conner. 215,593.
Birchard, Jesse R., Mortrude, and Conner. 215,594.
Birchard, Jesse R., Mortrude, and Conner. 216,387.
Connolly, John J.: *See*—
Bardeau, William M. 213,931.
Connolly, Robert E., to Sternco Industries, Inc. Color comparator for testing the H of aquarium water and the like. 216,258, 12–9–69, Cl. D16—2.
Connor, Dorothy J., to American Home Products Corp. Handle for a culinary implement. 216,148, 11–25–69, Cl. D44—29.
Connor, George A.: *See*—
Hopkins, Kenneth A., and Connor. 213,921.
Conrac Corp.: *See*—
Zerlaut, Leonard E. 215,322.
Consolidated Food Corp.: *See*—
Descarries, Raymond. 215,490.
Fields, Murray. 213,341.
Johanson, Ralph A. W. 216,275.
Consolidated Merchandising Corp.: *See*—
Reichenstein, Victor. 214,593.
Container Corp. of America: *See*—
Carpenter, Lindell O., and Ferguson. 214,258.
Continental Can Co., Inc.: *See*—
Newman, Fred C. 214,019.
Stec, Frederick J. 214,880.
Continental Mfg. Co.: *See*—
Mangold, Raymond J., and Myers. 215,344.
Mangold, Raymond J., and Myers. 215,345.
Mangold, Raymond J., and Myers. 215,347.
Contour Laminates, Inc.: *See*—
Radieke, Robert C. 215,718.
Contratto, James: *See*—
Routh, Larry L., and Contratto. 214,582.
Routh, Larry L., and Contratto. 214,583.
Routh, Larry L., and Contratto. 214,584.
Contreras, Andrew L., to Wolverine Brass Works, a division of Wolverine Industries, Inc. Shower head. 215,936, 11–11–69, Cl. D23—35.
Control Design, Inc.: *See*—
Dinkel, Louis F. 213,963.
Conwed Corp.: *See*—
Gaffney, Bernard J. 213,688.
Tacke, William H. P. 214,559.
Cook, Calvin C., to Louis Marx & Co. Inc. Hand driven wheeled vehicle. 215,861, 11–4–69, Cl. D34—15.
Cook, Calvin C., to Louis Marx & Co. Inc. Hand driven toy wheeled vehicle. 215,948, 11–11–69, Cl. D34—15.
Cook Chemical Co.: *See*—
Clevenger, Juel D. 213,179.
Muller, Frederick W. 213,172.
Muller, Frederick W., and Clevenger. 213,170.
Cook, Ross, to Ross Cook, Inc. Pneumatic tube dispatch terminal. 213,877, 4–22–69, Cl. D23—167.
Cook, Ross, Inc.: *See*—
Cook, Ross. 213,877.
Coon, James A., and E. Theobald. Four-sided file having convex and concave corners. 214,178, 5–20–69, Cl. D37—1.
Coon, James A., and E. Theobald. Concavo-convex triangular file. 216,210, 12–2–69, Cl. D37—1.

Coons, Royal E. Fruit segment squeezer. 213,161, 1–7–69, Cl. D89—1.
Cooper, Milton V. Bird feeder. 214,735, 7–22–69, Cl. D30—13.
Cooper, Myron G., K. E. Grandon, Jr., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 213,941, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 213,942, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 213,943, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 213,944, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., R. M. Vondell, and D. C. Ellis, to Kellogg Co. Snack food product or the like. 213,945, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., R. M. Vondell, and D. C. Ellis, to Kellogg Co. Snack food product or the like. 213,946, 4–29–69, Cl. D1—2.
Cooper, Myron G., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 214,659, 7–15–69, Cl. D1—13.
Cooper, Myron G., and R. M. Vondell, to Kellogg Co. Snack food product. 215,260, 9–23–69, Cl. D1—1.
Cooper, Myron G., and K. E. Grandon, Jr., to Kellogg Co. Snack food product or the like. 215,261, 9–23–69, Cl. D1—7.
Copeland, Bennett J.: *See*—
King, Edward J., Jr., and Copeland. 215,663.
Copley, Jerry L. Flank cinch adapter. 213,204, 1–14–69, Cl. D30—19.
Copystatics Mfg. Corp.: *See*—
Blank, Fritz. 213,920.
Corkery, Gregory O., to Jackes-Evans Mfg. Co. Mail box. 215,510, 9–30–69, Cl. D74—9.
Corlin, Sid. Shirt or the like. 214,826, 8–5–69, Cl. D2—217.
Cornelius Co., The: *See*—
Lofgren, Clark L. 216,182.
Reichow, James R. 213,164.
Cornell-Dubilier Electric Corp.: *See*—
Toerge, Fred L., and Garfinkle. 215,492.
Corning Glass Works: *See*—
Beckman, Glenn B. 215,227.
Bruce, Robert A. 213,390.
Freiman, David J. 214,125.
Horton, George L., Jr., and Weitzman. 213,213.
Ketcham, Charles B. 215,747.
MacPhee, John. 214,755.
MacPhee, John. 215,563.
MacPhee, John. 215,564.
Weitzman, Mark R. 213,389.
Cornish, Judson E. Control desk for classroom instruction. 215,732. 10–28–69, Cl. D33—7.
Cornish, Judson E. Carrell for student instruction. 216,026, 11–18–69, Cl. D33—11.
Coro, Inc.: *See*—
Henrich, Leonard N. 215,190.
Coronado Mfg. Co.: *See*—
Lee, Humphrey A. 216,150.
Correia, Simmons, Jr. Egg shaped rocking toy. 213,210, 1–14–69, Cl. D34—5.
Corrigan, John J.: *See*—
Haas, Howard G., and Corrigan. 215,263.
Corson, Henry C., and L. D. Drugmand, to Emerson Electric Co. Bracket for an electric water heater. 214,590, 7–1–69, Cl. D54—1.
Cortina, Anthony. Container edge supportable paint brush holder. 213,357, 2–25–69, Cl. D9—289.
Cottier, Seton, and J. J. Natoli, to International Business Machines Corp. Data inscriber or the like. 213,562, 3–18–69, Cl. D26—5.
Coulter, John. Sailboat. 213,471. 3–4–69, Cl. D71—1.
Court, Arthur E. Support stand for displaying ornaments. 214,798, 7–29–69, Cl. D33—3.
Court, Arthur E. Support stand for displaying ornaments. 214,799, 7–29–69, Cl. D33—17.
Cowan, Edwin J. Portable broiler. 213,600, 3–18–69, Cl. D81—10.
Cowan, Murray L., and J. M. Grear, to Textron Inc. Bottle or similar article. 213,541, 3–18–69, Cl. D9—76.
Cox, Clair E., F. Hinman, Jr., and A. Harautunelan, to Pharmaseal Division of American Hospital Supply Corp. Guide mechanism for a medical catheter. 215,387, 9–23–69. Cl. D83—12.
Cox, Richard S., to Sylvania Electric Products Inc. Tape recorder cartridge player or the like. 213,373, 2–25–69, Cl. D26—14.
Cox, Richard S., to Sylvania Electric Products Inc. Tape recorder cartridge player or the like. 213,374, 2–25–69, Cl. D26—14.
Cox, Walter T., to Theodore Borgman Co. Reflector light housing. 216,151, 11–25–69, Cl. D48—32.
Coyle, Donald E.: *See*—
Knight, Harry F., Jr., and Coyle. 215,671.
Crabtree, Charles M.: *See*—
Painter, David L., and Crabtree. 216,058.
Craftool Co., The: *See*—
Averitt, Marnie C. 215,874.
Crain, Edward L. Holder for a portable radio. 214,812, 7–29–69, Cl. D54—1.
Crandell, Melvin G.: *See*—
Anderson, Stephen R., Crandell, and Pease. 214,959.
Crane & Breed Casket Co., The: *See*—
Peter, Joseph E. 215,432.
Peter, Joseph E. 215,433.
Peter, Joseph E. 215,434.
Peter, Joseph E. 215,933.
Crane Co.: *See*—
Arvan, Nicholas P. 213,369.
Gaglio, Peter A., Hansen, and Krueger. 215,156.
Svabek, John E., Jr., and Arvan. 215,099.
Crane, Margaret, to Intec Laboratories. Diagnostic kit. 215,774, 10–28–69, Cl. D83—1.
Crawford, Allan H., to Mohasco Industries, Inc. Chair. 213,365, 2–25–69, Cl. D15—11.
Crawford, Ralph W., to Fisher-Price Toys, Inc. Toy camera. 214,328, 6–3–69, Cl. D34—15.
Crawford, Ralph W., to Fisher-Price Toys Inc. Toy camera. 214,929, 8–12–69, Cl. D34—15.
Crease, Pierre L., to The National Cash Register Co. Combined record material rewind unit and adding machine or similar article. 216,340, 12–16–69, Cl. D64—11.
Creative Environments Inc.: *See*—
Solo, Alan J. 214,061.
Crestin-Billet, Bernard. Pair of sunglasses. 214,531, 6–24–69, Cl. D57—1.
Cretin, Theodore D., to National Services Industries, Inc. Chair. 216,113, 11–25–69, Cl. D15—1.
Cretin, Theodore D., to National Services Industries, Inc. Chair. 216,114, 11–25–69, Cl. D15—1.
Creve Coeur Mfg. Co.: *See*—
Slagell, Lloyd D. 214,490.
Crist, Buckley, to Jaclo, Inc. Combined aerator and drinking fountain attachment for faucets and the like. 213,876, 4–22–69, Cl. D23—35.
Criswell, John H., to Air Traffic Control System, Inc. Mobile air traffic control tower. 213,181, 1–14–69, Cl. D14—3.
Critcher, John L., to AAI Corp. Pistol. 214,496, 6–24–69, Cl. D22—1.
Croci, Giovanni, to Lincoln Italiana Industria Ettromecanica S.r.l. Floor suction polisher. 215,611, 10–14–69, Cl. D37—3.
Cronheim, Richard B. Compartmented food warming insert for a saucepan or the like. 213,387, 2–25–69, Cl. D44—1.
Cronheim, Richard B. Combined coaster and ash tray. 215,114, 9–2–69, Cl. D44—10.
Cronheim, Richard B. Sampling spoon. 215,871, 11–4–69, Cl. D44—29.
Cronin, Lawrence J., Jr.: *See*—
Dougherty, Robert J., and Cronin. 214,765.
Crossland, Edward J., F. L. Walters, and D. Randall, to Seismograph Service Corp. Portable voting booth. 215,075, 8–26–69, Cl. D87—1.
Crown Cork & Seal Co., Inc.: *See*—
Luviano, John J. 214,126.
Rodden, Joseph P. 215,924.
Crown Zellerbach Corp.: *See*—
Redman, John F., Jr. 213,548.
Crystal Metal Products Co., Inc.: *See*—
Katz, Meyer M. 215,670.
Cullinan, Thomas L., Jr. Glove. 213,857, 4–22–69, Cl. D2—373.
Cunningham, Elmer H. Utility rule. 215,561, 10–7–69, Cl. D52—6.
Curlee, Thomas O., III: *See*—
Tresino, Louie R., and Curlee. 214,170.
Curley, Dellert V. Animal feed machine. 215,666, 10–21–69, Cl. D30—13.
Curran, Frank J. Ash tray. 214,607. 7–1–69. Cl. D85—2.
Curran, Frank J. Ash tray. 214,708, 7–15–69, Cl. D85—2.
Curriston, Loren E., and H. Fornoff, to North American Rockwell Corp. Maneuvering space vehicle or similar article. 213,732. 4–1–69, Cl. D71—1.
Curriston, Loren E., and H. Fornoff, to North American Rockwell Corp. Maneuvering space vehicle or similar article. 213,733, 4–1–69, Cl. D71—1.
Curriston, Loren E., and H. Fornoff, to North American Rockwell Corp. Maneuvering space vehicle or similar article. 213,734, 4–1–69, Cl. D71—1.
Curtin, Kenneth M., F. E. Kern, R. J. White, and W. G. Baechle, to Evansville Association for the Blind, Inc. Wick holder for evaporative deodorizers or the like. 215,846, 11–4–69, Cl. D23—150.
Curtin, Paul J.: *See*—
Clark, Philip B., and Curtin. 213,393.
Curtis-Electro Lighting, Inc.: *See*—
Litner, Philip. 213,240.
Curtis Products Ltd.: *See*—
Koch, George A. 213,191.
Koch, George A. 213,438.
Koch. George A. 213,439.
Curtis, Reid H., to The Perkin Elmer Corp. Low temperature R-F reactor plasma tube. 214,788, 7–29–69, Cl. D16—2.
Curto, John F. Compartmented ticket box. 213,241, 1–14–69, Cl. D87—1.
Custom Wrought Products Co.: *See*—
Reichman, Paul A. 213,195.
Reichman, Paul A. 213,197.
Cutright, Francis B. Guitar. 215,030, 8–19–69, Cl. D56—1.
Cvengros, David V., to The Goodyear Tire & Rubber Co. Tire. 215,573, 10–7–69, Cl. D90—20.
Cvengros, David V., and P. S. Hammond, to The Goodyear Tire & Rubber Co. Tire. 216,354, 12–16–69, Cl. D90—20.
Czapar, William A., and R. P. Suggs. Hook fastener. 214,825, 8–5–69, Cl. D2—418.

Czapla, Wolfgang, to Rotaprint Aktiengesellschaft. Combined offset printing and duplicating machine. 213,527, 3–11–69, Cl. D64—11.

Daenen, Robert, to Dart Industries Inc. Butter tray or the like. 215,958, 11–11–69, Cl. D44—5.

Daenen, Robert, to Dart Industries Inc. Butter dish or the like. 216,214, 12–2–69, Cl. D44—5.

D'Agostino, Vincent F., and P. Brieff, to RAI Research Corp. Gunnery target. 214,896, 8–12–69, Cl. D22—15.

Daher, Theodore G., to General Electric Co. Heater housing for hair curlers or similar article. 215,258, 9–16–69, Cl. D86—10.

Daher, Theodore G., and W. V. Judson, to General Electric Co. Clock. 214,179, 5–20–69, Cl. D42—7.

Daher, Theodore G., and W. V. Judson, to General Electric Co. Clock or similar article. 214,637, 7–8–69, Cl. D42—7.

Daher, Theodore G., and W. V. Judson, to General Electric Co. Clock or similar article. 216,212, 12–2–69, Cl. D42—7.

Dahlman, William J., and L. F. Budds, to North American Rockwell Corp. Plasma welding torch. 214,445, 6–17–69, Cl. D26—1.

Dai Nihon Bungu Kabushiki Kaisha: *See*—
Horie, Yukio. 215,768.
Wakai, Noboru. 213,531.

Dailey, Donald E., to P. R. Mallory & Co., Inc. Battery charger. 214,732, 7–22–69, Cl. D26—15.

Daito, Hiroshi, to Blackwell Electronics Inc Co., Ltd. Portable retractable lamp. 214,082, 5–6–69, Cl. D48—20.

Dale, Donald J. Child's sleeping bag. 214,232, 5–20–69, Cl. D92—2.

Dalpiaz, David R.: *See*—
Vesely, Donald V., and Dalpiaz. 214,944.
Velely, Donald V., and Dalpiaz. 214,945.
Vesely, Donald V., and Dalpiaz. 215,669.

Dalton-Gorman Industries, Inc.: *See*—
Gorman, Samuel K. 213,614.

Dalton Supplies Ltd.: *See*—
Brierley, Cuthbert. 213,836.

Dalton, William F.: *See*—
Stessel, Martin C., Dalton, Dulin, Jones, and Schachner. 214,699.

Damast, David. Handbag snap lock. 213,654, 3–25–69, Cl. D87—2.

Damast, David. Handbag lock. 213,811, 4–8–69, Cl. D87—2.

Damast, David. Handbag lock. 213,812, 4–8–69, Cl. D87—2.

Damast, David. Handbag closure clasp. 213,813, 4–8–69, Cl. D87—2.

Damast, David. Handbag closure clasp. 213,814, 4–8–69, Cl D87—2.

Damast, David. Handbag snap lock. 214,006, 4–29–69, Cl. D87—2.

Daniel, Eugene T., to Monogram Models, Inc. Toy car, or similar article. 213,791, 4–8–69, Cl. D34—15.

Daniel, Eugene T., to Safari Enterprises, Inc. Body for motor vehicles or the like. 215,833, 11–4–69, Cl. D14—3.

Daniels, Paul J.: *See*—
Goodrich, Eugene E., and Daniels. 214,861.

Danjczek, William E., to Rapidograph, Inc. Casing for a writing instrument. 216,282, 12–9–69, Cl. D74—17.

Daroff, H., & Sons, Inc.: *See*—
Paranzino, Joseph A. 215,756.

Dart Industries, Inc.: *See*—
Bateman, Robert F., and Swett. 214,931.
Bateman, Robert F., and Swett. 216,146.
Daenen, Robert. 215,958.
Daenen, Robert. 216,214.
Kner, Albert. 214,334.
Suggs, William T. 216,386.
Swett, James B. 214,332.
Swett, James B. 214,333.
Swett, James B., and Ashton. 214,928.
Swett, James B., and Ashton. 216,145.
Swett, James B., and Bateman. 216,271.
Swett, James B., and Brown. 214,933.
Swett, James B., and Brown. 216,215.

Dashaveyor Co., The: *See*—
Bradley, Robert. 215,503.

Data Packaging Corp.: *See*—
Lowry, Alan B. 215,850.

Daum, Howard A., to Hadco Products, Inc. Lighting fixture. 215,961, 11–11–69, Cl. D48—31.

David, Bernard A. Decanter or similar article. 215,201, 9–16–69, Cl. D9—29.

David, Spirou. Lid cover for a trash receptacle enclosure. 216,412, 12–30–69, Cl. D49—35.

Davidson, Gilbert: *See*—
Annis, Martin, Davidson, La Selva, and St. Martin. 213,805.

DaVinci Creations, Inc.: *See*—
Aquilino, Brook A. 213,853.

Davis, David M. Anemometer integral cup and arm. 215,071, 8–26–69, Cl. D52—6.

Davis, Dorothy L.: *See*—
Davis, William F., and Oliver. 215,109.

Davis, Elmer H. Receptacle for a roll of toilet tissue. 213,837, 4–15–69, Cl. D33—31.

Davis, Eugene R. Lamp base. 213,463, 3–4–69, Cl. D48—20.

Davis, Evans G. Display stand for a golf ball or the like. 213,406, 2–25–69, Cl. D80—90.

Davis, Harold G., deceased (The First National Bank of Denver, administrator), and T. R. Brunson, to Rocky Mountain Dental Products Co. Electric welder. 214,564, 7–1–69, Cl. D26—1.

Davis, Herman W.: *See*—
Nelson, Edgar L., and Davis. 215,357.

Davis, Herman W., to A. Teichert & Son, Inc. Concrete joint shaping tool. 214,985, 8–19–69, Cl. D8—45.

Davis, Jack E., to Victor Comptometer Corp. Fishing lure. 215,842, 11–4–69, Cl. D22—27.

Davis, Paul. Cup. 213,094, 1–7–69, Cl. D9—220.

Davis, Paul. Cup. 213,174, 1–14–69, Cl. D9—220.

Davis, Paul, to Sweetheart Plastics, Inc. Mold for frozen confection. 213,897, 4–22–69, Cl. D44—1.

Davis, Paul D. Air-cushion vehicle. 215,369, 9–23–69, Cl. D71—1.

Davis, William F., and O. R. Oliver, to W. F. and D. L. Davis, d.b.a. Jiffy Mfg. Co. Sled. 215,109, 9–2–69, Cl. D34—15.

Dawson, Robert E., to R. E. Dietz Co. Vehicular signal lamp lens. 215,481, 9–30–69, Cl. D48—32.

Day, Kerry A.: *See*—
Koch, Walter L., and Day. 214,948.

Dayco Corp.: *See*—
Griffin, Richard J. 213,366.
Scaglione, Donald. 215,910.

Dazey Products Co.: *See*—
Kellogg, Thomas W. 215,568.

Deal, Charles E. Electric guitar. 214,695, 7–15–69, Cl. D56—1.

Dean, Ruth A., to Taylor Chair Co. Table. 214,741, 7–22–69, Cl. D33—14.

Dearling, Harry S. Bottle. 213,672, 4–1–69, Cl. D9—118.

Deavin, Ernest A. H., to Deavin-Irvine Products, Ltd. Wheeled hand trolley. 213,665, 3–25–69, Cl. D14—3.

Deavin-Irvine Products, Ltd.: *See*—
Deavin, Ernest A. H. 213,665.

De Balseiro, Emilia C., to Balseiro, Cordoba & Compania (Balco). Molded sandal. 215,401, 9–30–69, Cl. D2—294.

De Balseiro, Emilia C., to Balseiro, Cordoba & Compania (Balco). Molded sandal. 215,402, 9–30–69, Cl. D2—294.

Debella, Gasper V., to Cal-West Electric, Inc. Utility trailer. 216,254, 12–9–69, Cl. D14—3.

Debs, Pierre J., to Zarn, Inc. Jug. 215,539, 10–7–69, Cl. D9—40.

Decrouez, Pierre L., to Proctor-Silex Inc. Electric bread toaster. 213,932, 4–22–69, Cl. D81—10.

Decrouez, Pierre L., to Proctor-Silex Inc. Electric hair dryer. 218,937, 4–22–69, Cl. D86—10.

Decrouez, Pierre L., and J. A. Sproston, to Proctor-Silex, Inc. Coffee maker or the like. 214,335, 6–3–69, Cl. D44—26.

Deere & Co.: *See*—
Dreyfuss, Henry, Conner, Borsheim, Miller, and Gilbert. 213,869.

Deeren, Thomas J. Carton insert for shipping cathode-ray picture tubes. 215,203, 9–16–69, Cl. D9—188.

De Flandre, Charles, to Walton-Richardson Co. Bottle or similar article. 213,090, 1–7–69, Cl. D9—100.

Dehn, Roy F., to McNeil Corp. Electric conductor bar and guard support. 214,091, 5–6–69, Cl. D54—1.

Delane, Leonard: *See*—
Delane, William and L. 215,736.

Delane, William and L. Mobile bar. 215,736, 10–28–69, Cl. D33—19.

Delaney, Edward J. Combined bulletin board and weather station. 213,817. 4–8–69, Cl. D96—12.

De Lee, Morris. Latch for doors, drawers, windows or the like. 214,359, 6–10–69, Cl. D8—109.

Delfausse, Pierre. Hockey game board. 215,740, 10–28–69, Cl. D34—5.

D'Elia, Anthony N.: *See*—
Poppe, Martin C., Miller, Stolarz, and D'Elia. 214,390.

D'Elia, Anthony N., and E. M. Stolarz, to Rayex Corp. Mirror. 213,155, 1–7–69, Cl. D86—10.

D'Elia, Anthony N., and E. M. Stolarz, to Presto Lock Co., Inc. Luggage handle or similar article. 213,242, 1–14–69, Cl. D87—2.

D'Elia, Anthony N., and E. M. Stolarz, to Reliable Luggage, Inc. Soft side suitcase. 213,744, 4–1–69, Cl. D87—5.

D'Elia, Anthony N., and E. M. Stolarz, to Reliable Luggage, Inc. Carrying bag or similar article. 213,745, 4–1–69, Cl. D87—5.

D'Elia, Anthony N., and E. M. Stolarz, to Reliable Luggage, Inc. Expandable carrying bag. 213,746, 4–1–69, Cl. D87—5.

D'Elia, Anthony N., and E. M. Stolarz, to Presto Lock Co., Inc. Luggage handle or similar article. 214,299, 5–27–69, Cl. D87—2.

D'Elia, Anthony N., and E. M. Stolarz. Heater for individual hair curlers. 214,545, 6–24–69. Cl. D86—10.

D'Elia, Anthony N., and E. M. Stolarz, to Reliable Luggage Inc. Luggage case. 214,858, 8–5–69, Cl. D87—5.

D'Elia, Anthony N., and E. M. Stolarz, to Presto Lock Co., Inc. Luggage lock or similar article. 215,199, 9–16–69, Cl. D8—122.

D'Elia, Anthony N., and E. M. Stolarz, to Reliable Luggage, Inc. Strap for luggage. 216,075, 11–25–69, Cl. D8—154.

Delk, Joseph C., Jr. Crankcase drip pan. 213,101, 1–7–69, Cl. D14—6.

Della-Porta, Clifford A., to The Premier Drum Co. Ltd. Attachment base for a musical instrument support stand. 214,129, 5–13–69, Cl. D33—3.

Delmonico International Corp.: *See*—
Durando, Frank D. 215,451.
Durando, Frank D. 215,452.
Durando, Frank D. 215,733.
Durando, Frank D. 215,734.

Delta Camper Inc.: *See*—
Jones, Glenn. 215,506.

De Luxetopper Corp.: *See*—
Blumenthal, Martin L. 213,708.
De May, Vincent. Harmonica resonator. 213,404, 2–25–69, Cl. D56—1.
Dennison, George F., to Smeco Industries, Inc. Meat tree. 216,008, 11–18–69, Cl. D11—1.
Dennison Mfg. Co.: *See*—
Merser, Francis G. 213,418.
Merser, Francis G. 214,122.
Merser, Francis G. 214,123.
Merser, Francis G. 214,151.
Merser, Francis G. 214,152.
Merser, Francis G. 214,153.
Merser, Francis G. 214,235.
Denson, Richard E. Lamp globe. 215,174, 9–9–69, Cl. D48—16.
Dep Corp.: *See*—
Hubbell, Robert F. 213,481.
De Palmo, Elizabeth. Cookie baking sheet. 214,280, 5–27–69, Cl. D44—1.
De Palmo, Elizabeth. Cookie baking sheet. 215,957, 11–11–69, Cl. D44—1.
De Paul, Thomas J.: *See*—
Landell, Harper, and De Paul. 213,874.
D'Ercoli, Giacinto C., to General Time Corp. Weather instrument casing. 213,799, 4–8–69, Cl. D52—7.
D'Ercoli, Giacinto C., to General Time Corp. Clock. 215,955, 11–11–69, Cl. D42—7.
Descarries, Raymond, to Consolidated Foods Corp. Vacuum cleaner hose handle. 215,490, 9–30–69, Cl. D49—17.2.
Deschamps, Robert L.: *See*—
Sizer, Stuart W., and Deschamps. 216,393.
Design Workshop, Inc.: *See*—
Tapert, John W. 215,428.
Desloge, George B., to Watlow Electric Mfg. Co. Clamp for split ring heater band. 214,342, 6–3–69, Cl. D54—1.
Detanger, Pierre, to Societe Intercontinentale des Containers S.I.C. Freight container. 213,156, 1–7–69, Cl. D87—1.
Detroit Automotive Products Co.: *See*—
Wallace, Floyd E., and Elwell. 213,772.
Detroit Edison Co., The: *See*—
Elliott, Ernest A., and Kane. 214,731.
De Tymowski, Jacques, to Produits Erismann S.A. Package of candies. 213,675, 4–1–69, Cl. D9—193.
Deutsch, Stanley. Fluorescent lighting louver. 214,683, 7–15–69, Cl. D48—16.
De Varco, Donald A., to Sunbeam Corp. Charging stand for battery operated appliance. 216,292, 12–16–69, Cl. D4—16.
De Vos, Arie C., to U.S. Philips Corp. Ornamental escutcheon plate. 214,277, 5–27–69, Cl. D29—23.
De Vos, Hendrik A. J.: *See*—
Blaisdell, Ronald G., and de Vos. 213,994.
De Vries, Jacob. Lectern. 215,219, 9–16–69, Cl. D33—10.
De Vries, Machiel. Combined phonograph pickup cartridge and cover therefor. 213,966, 4–29–69, Cl. D26—14.
Dewar, Robert E. Plastic sheet material or the like. 215,518, 9–30–69, Cl. D87—3.
Dewees, Charles B., Jr. Sandwich container. 213,674, 4–1–69, Cl. D9—180.
Dexter Axle Co., Inc.: *See*—
Dexter, Richard E. 215,653.
Dexter, Richard E., to Dexter Axle Co., Inc. Combination brake drum and wheel. 215,653, 10–21–69, Cl. D14—30.
De Zinno, Theophile L., to Advertime Corp. Combined sign and clock. 213,940, 4–22–69, Cl. D96—12.
Diamond Donut, Inc.: *See*—
McCreary, Edward W., Tindall, and Hood. 215,540.
Di Blasio, Raymond. Serving tray. 214,183, 5–20–69, Cl. D44—10.
Dick, Harvey F., to White Motor Corp. Trim for a vehicle cab. 214,038, 5–6–69, Cl. D14—6.
Dick, Harvey F., to White Motor Corp. Trim for a vehicle cab. 214,039, 5–6–69, Cl. D14—6.
Dictaphone Corp.: *See*—
Plumb, William L. 213,880.
Dictograph Products Co.: *See*—
Giller, Ronald R. 213,969.
Diebold, Inc.: *See*—
Anders, Walter G. 213,198.
Anders, Walter G. 213,592.
Anders, Walter G. 213,999.
Dieffenbach, Otto W., Jr., to Glassips Inc. Stirrer. 213,578, 3–18–69, Cl. D44—29.
Diehr, Charles A. Handle section of a knockdown archery bow. 215,841, 11–4–69, Cl. D22—5.
Diemond, Joseph, and L. E. Greenberg. Pool or the like. 213,839, 4–15–69, Cl. D34—5.
Diemond, Joseph, M. Y. Gershman, and F. A. Ravreby, to Coleco Industries, Inc. Skimmer for swimming pools. 216,260, 12–9–69, Cl. D23—4.
Dienes, Robert R., T. J. Tierney, and B. E. Swadley, to The Coleman Co., Inc. Outdoor grill. 215,381, 9–23–69, Cl. D81—10.
Dienes, Robert R., T. J. Tierney, and B. E. Swadley, to The Coleman Co., Inc. Outdoor gas grill. 215,382, 9–23–69, Cl. D81—10.
Dietrich, Gerhard, and A. Mamet, to Triumph Werke Nuernberg A.G. Typewriter or the like. 213,231, 1–14–69, Cl. D64—11.
Dietrich, Michele, and W. P. Godley, to Honeywell Inc. Note holder attachment for a telephone. 216,264, 12–9–69, Cl. D26—14.
Dietz, R. E., Co.: *See*—
Chase, David O., and Bunyea. 213,128.
Dawson, Robert E. 215,481.
Stahl, John F. 215,117.
Digital Information Devices Inc.: *See*—
Yeager, Eugene W. 215,397.
Dinkel, Louis F., to Control Design, Inc. Clip for electric terminal board. 213,963, 4–29–69, Cl. D26—1.
Dintsman, Hyman. Shipping tray for watches. 216,100, 11–25–69, Cl. D9—187.
Di Pasquale, Georgia. Portable bidet. 213,557, 3–18–69, Cl. D23—51.
Di Pierro, Michael J.: *See*—
Birger, Jordan and M., and Di Pierro. 213,264.
Direct Markets, Ltd.: *See*—
Hauser, Stephen G. 216,229.
Hauser, Stephen G. 216,231.
Dishmaster Appliances Ltd.: *See*—
Keen, Walter J. 213,130.
Di Spirito, Gino, to All-Rite Pen Co., Inc. Writing instrument. 215,042, 8–19–69, Cl. D74—17.
Distograph Products, Inc.: *See*—
Giller, Ronald R. 213,448.
Dittman, David T., to Pet Inc. Packaging tray. 213,860, 4–22–69, Cl. D9—187.
Dittmar, Frank L., Jr., to Bata Shoe Co., Inc. Sole for footwear. 213,414, 3–4–69, Cl. D2—320.
Dittmar, Frank L., Jr., to Bata Shoe Co., Inc. Sole for footwear. 213,417, 3–4–69, Cl. D2—320.
Dittmar, Frank L., Jr., to Bata Shoe Co., Inc. Sole for footwear. 215,643, 10–21–69, Cl. D2—320.
Dittmar, Frank L., Jr., to Bata Shoe Co., Inc. Sole for footwear. 215,644, 10–21–69, Cl. D2—320.
Dittmar, Frank L., Jr., and C. Rutherford, to Bata Shoe Co., Inc. Sole for footwear. 213,416, 3–4–69, Cl. D2—320.
Divietro, James F. Telephone voice amplifier. 216,020, 11–18–69, Cl. D26—14.
Dixon, Don P. Combined outlet and control panel for an automobile air conditioner. 214,791, 7–29–69, Cl. D23—142.
Dixon, Don P. Combined outlet and control panel for an automobile air conditioner. 215,095, 9–2–69, Cl. D23—142.
Dixon, Don P. Combined outlet and control panel for an automobile air conditioner. 216,023, 11–18–69, Cl. D23—142.
Dixson, Paul B.: *See*—
Lavin, Benjamin B., Dixson, and Hammond. 214,471.
Dobyns, John L. Bottle. 215,200, 9–16–69, Cl. D9—23.
Dockstader, Tod A. Device for creating light patterns. 214,940, 8–12–69, Cl. D48—20.
Doggart, John, to V & E Friedland Ltd. Wall chime. 215,187, 9–9–69, Cl. D72—1.
Doggart, John, to V & E Friedland Ltd. Wall chime. 215,188, 9–9–69, Cl. D72—1.
Doggart, John, to V & E Friedland Ltd. Wall chime. 215,189, 9–9–69, Cl. D72—1.
Doggart, John, to V & E Friedland Ltd. Wall chime. 215,374, 9–23–69, Cl. D72—1.
Doggart, John, to V & E Friedland Ltd. Wall chime. 215,375, 9–23–69, Cl. D72—1.
Dolan, William S., to Modutec Inc. Electrical meter. 215,658, 10–21–69, Cl. D26—1.
Dolgorukov, Gregory S. Support for a stenographic notebook. 214,142, 5–13–69, Cl. D74—1.
Doman, Donald W., to Clevite Corp. Combined handle and rear flasher for an electric lantern. 213,126, 1–7–69, Cl. D48—24.
Domenico's Gondola, Inc.: *See*—
Spano, Domenica. 216,009.
Domingo, Evelyn L. Handbag. 216,062, 11–18–69, Cl. D87—3.
Dominion Auto Accessories Ltd.: *See*—
Magi, Hugo. 214,394.
Magi, Hugo. 214,395.
Dominion Electric Corp.: *See*—
Benjamin, E Burton. 214,548.
Benjamin, E Burton. 214,585.
Benjamin, E Burton. 214,609.
Benjamin E Burton. 215,045.
Domshy, Ernest H. Food holder for an electric toaster or the like. 216,347, 12–16–69, Cl. D81—10.
Domstedt, Johan A., and K. Y. Karlsson, to Aktiebolaget Electrolux. Vacuum cleaner nozzle. 216,155, 11–25–69, Cl. D49—19.
Donato, John A. Exercising device. 213,707, 4–1–69, Cl. D34—5.
Donoghue, Robert J. Bottle. 215,820, 11–4–69, Cl. D9—119.
Donovan, Donald W., to Monsanto Co. Combined container and closure therefor. 215,413, 9–30–69, Cl. D9—219.
Donovan, James P., to General Equipment and Mfg. Co., Inc. Electronic counter indicator panel. 214,908, 8–12–69, Cl. D26—5.
Dorfman, Melville, to Hartman Products. Electrically illuminable portable cosmetic mirror. 213,936, 4–22–69, Cl. D86—10.
Dorsi, David C.: *See*—
Koch, Edward W., and Dorsi. 215,554.
Dougherty, Robert J., and L. J. Cronin, Jr., to The Fisher-Pierce Co., Inc. Boat. 214,765, 7–22–69, Cl. D71—1.
Douglas, David. Tray. 213,576, 3–18–69, Cl. D44—10.
Douglas, David. Beverage server. 213,577, 3–18–69, Cl. D44—21.
Douglas, David. Insulated food keeper. 216,037, 11–18–69, Cl. D44—1.
Douglas, David. Butter dish. 216,038, 11–18–69, Cl. D44—5.
Douglas, James B. Bench. 214,740, 7–22–69. Cl. D33—11.
Douglas, Livingston C., to Colgate-Palmolive Co. Combined bottle and closure therefor. 213,542, 3–18–69, Cl. D9—145.

Douglas, Livingston C., to Colgate-Palmolive Co. Bottle or similar article. 213,543, 3–18–69, Cl. D9—149.
Douglas, Livingston C., to Colgate-Palmolive Co. Container for pulverulent material or the like. 214,485, 6–24–69, Cl. D9—207.
Downey Fertilizer Co.: *See*—
Beaumont, William E. 214,023.
Beaumont, William E. 214,024.
Dozier, Paul M. Rodent poison dispenser. 215,119, 9–2–69, Cl. D52—2.
Drackett Co., The: *See*—
Marrelli, Charles N. 215,512.
Drake, Eugene S. Safety pin or the like. 214,259, 5–27–69, Cl. D2—413.
Dransfield, Clifford D., D. D. Shields, and O. Paxton. Cable and seismometer truck. 216,110, 11–25–69, Cl. D14—3.
Drescher & Kiefer: *See*—
Reitzel, Georg. 215,128.
Dreyer, James: *See*—
Schulein, Benjamin M., Jr., and Dreyer. 214,631.
Dreyer, Leonard, to Grover Musical Products, Inc. Guitar machine. 216,049, 11–18–69, Cl. D56—1.
Dreyfuss, Henry, to The Singer Co. Sewing machine. 213,922, 4–22–69, Cl. D70—1.
Dreyfuss, Henry, to Bell Telephone Laboratories, Inc. Illuminated signal. 214,216, 5–20–69, Cl. D72—1.
Dreyfuss, Henry, to The Singer Co. Sewing machine carrying case or similar article. 215,517, 9–30–69, Cl. D87—1.
Dreyfuss, Henry, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Videotelephone transceiver. 213,108, 1–7–69, Cl. D26—14.
Dreyfuss, Henry, J. M. Conner, H. G. Borsheim, L. E. Miller, and L. G. Gilbert, to Deere & Co. Articulated tractor. 213,869, 4–22–69, Cl. D14—3.
Dreyfuss, Henry, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Videotelephone transceiver control unit. 215,159, 9–9–69, Cl. D26—14.
Dreyfuss, Henry, and D. M. Genaro, to Bell Telephone Laboratories, Inc. Telephone set. 215,664, 10–21–69, Cl. D26—14.
Driedger, Diedrich, to L. J. Haryett. Recreation vehicle. 214,535, 6–24–69, Cl. D71—1.
Driscoll, Leo C. Golf club head. 213,326, 2–18–69, Cl. D34—5.
Drosdowit, Erma M. Sweater, or similar article. 216,290, 12–16–69, Cl. D2—46.
Drozdowski, Robert: *See*—
Plumb, William L., and Drozdowski. 213,221.
Drugman, Lester D., to Emerson Electric Co. Bracket for an electric water heater. 215,408, 9–30–69, Cl. D8—233.
Drugmand, Lester D.: *See*—
Corson, Henry C., and Drugmand. 214,590.
Dublirer, Robert: *See*—
Katzman, Lawrence, and Dublirer. 213,330.
Dubner, Harry, to Milady Brassiere and Corset Co., Inc. Panty girdle. 213,947, 4–29–69, Cl. D2—4.
Du Bois, Ralph L. R. Garment hanger. 213,342, 2–18–69, Cl. D80—8.
Du Bois, Ralph L. Combined water control handle and escutcheon for a bathtub or the like. 213,779, 4–8–69, Cl. D23—31.
Ducharme, Maxime, to North American Philips Co., Inc. Clock radio. 213,648, 3–25–69, Cl. D56—4.
Duckett, John W., P. W. Poehlmann, and G. E. Scott, to Composite Structures Inc. Seat or similar article. 215,712, 10–28–69, Cl. D15—8.
Duern, Gordon L., to Electrohome Ltd. Combination loudspeaker and enclosure therefor. 214,321, 6–3–69, Cl. D26—14.
Duern, Gordon L., to Electrohome Ltd. Radio cabinet or similar article. 214,343, 6–3–69, Cl. D56—4.
Duern, Gordon L., to Electrohome Ltd. Combined radio, phonograph and speaker unit. 214,954, 8–12–69, Cl. D56—4.
Duern, Gordon L., to Electrohome Ltd. Radio receiver cabinet or similar article. 214,955, 8–12–69, Cl. D56—4.
Duern, Gordon L., and M. N. Baldwin, to Electrohome Ltd. Loudspeaker enclosure. 214,912, 8–12–69, Cl. D26—14.
Dukes, Everett S. Child's chair. 214,316, 6–3–69, Cl. D15—1.
Dunkelman, Robert L.: *See*—
Moore, Lewis F., Dunkelman, and Schermerhorn. 215,383.
Dunlop Co. Ltd., The: *See*—
Barlow, Horace V. 214,410.
Bartlett, Eric C. 214,411.
Barton, Grahame J. 213,658.
Jones, Frank B. 213,349.
Jones, Frank B. 213,350.
Mills, Iain C. 214,409.
Mitchell, William E. 215,279.
Oita, Yoshio. 216,238.
Dunlop, Richard C., and L. N. Albrecht, to Systron-Donner Corp. Electronic instrument. 213,781, 4–8–69, Cl. D26—1.
Dunlop, Robert J., to Wm. Teacher & Sons Ltd. Combined bottle and closure therefor. 213,262, 1–28–69, Cl. D9—95.
Dunlop Tire and Rubber Corp.: *See*—
Hoke, Gilbert J. 215,394.
Hoke, Gilbert J. 215,993.
Jones, Frank B. 215,520.
Dupont, Norman O. Base for a rifle telescopic mount. 216,014, 11–18–69, Cl. D22—7.
Du Pree, Ernest L., to Schenley Industries, Inc. Combined decanter and closure therefor. 215,085, 9–2–69, Cl. D9—118.
Durando, Frank D., to Delmonico International Corp. Credenza or similar article. 215,451, 9–30–69, Cl. D33—13.
Durando, Frank D., to Delmonico International Corp. Credenza or similar article. 215,452, 9–30–69, Cl. D33—13.
Durando, Frank D., to Delmonico International Corp. Credenza or similar article. 215,733, 10–28–69, Cl. D33—13.
Durando, Frank D., to Delmonico International Corp. Credenza or similar article. 215,734, 10–28–69, Cl. D33—13.
Dusek, Rudolph. Paint box. 215,766, 10–28–69, Cl. D74—1.
Dutch, Paul H. Chemical testing kit. 216,306, 12–16–69, Cl. D16—1.
Dymo Industries, Inc.: *See*—
Lee, James H. 213,339.
Pauls, James R. 215,500.
Dynamics Corp. of America: *See*—
Levin, Monte L. 215,569.
Levin, Monte L. 215,570.
Levin, Monte L. 216,237.
Dynamics Corp. of America, Waring Products Division: *See*—
Levin, Monte L., and Bernstein. 216,170.
Dyke, Walter P., and F. J. Grundhauser, to Field Emission Corp. Radiographic X-ray apparatus. 215,631, 10–14–69, Cl. D83—1.
EG & G, Inc.: *See*—
Brunetti, Lawrence G., Gilmore, Goodrich, J. F. and V. H. Henshaw, and Richards. 215,005.
Ets. Carpano & Pons: *See*—
Mimeur, Robert. 214,851.
Eagle-Picher Industries, Inc.: *See*—
Ames, Charles R. 215,115.
Gross, Robert I. 213,372.
Hillhouse, Larry W. 214,190.
Rudd, Calvin G. 214,189.
Rudd, Calvin G. 214,191.
Earl, Thad J.: *See*—
Smith, Harold E. 216,188.
Earles, Everett D., and R. L. Blackwell. Tote waste receptacle or similar article. 213,722, 4–1–69, Cl. D49—33.
Easterling, Glen C.: *See*—
Whisnand, Augustus W., Easterling, and Kipp. 214,787.
Eastern Tool Co., Inc.: *See*—
Hood, Robert J. 216,074.
Eastman Kodak Co.: *See*—
Bundschuh, John J. 215,359.
Bundschuh, John J. 215,360.
Bundschuh, John J. 215,361.
Ettischer, Helmut, and Steiblinger. 216,053.
Hansen, David E. 214,402.
Knowles, Frederick G., and Wangerin. 215,358.
Olson, Richard J. 215,124.
Quinn, Peter T. 215,363.
Vigna, Ralph M. 214,762.
Eaton Yale & Towne Inc.: *See*—
Fawick, Thomas L. 214,758.
Wolaver, Robert M. 213,218.
Eberle, John E. and N. E. Hoffman, to AMP Inc. Bundle tie. 214,364, 6–10–69, Cl. D9—252.
Eberly, William F.: *See*—
Bomba, John R., and Everly. 216,255.
Eblowitz, Bernard. Postage scale. 215,494, 9–30–69, Cl. D52—10.
Eckstrom, Robert J. Portable water softener. 213,690, 4–1–69, Cl. D23—3.
Economou, Hercules, to Sun Control Industries, Inc. Awning. 213,293, 2–4–69, Cl. D21—6.
Edelman, Benjamin G., to United Metal Goods Mfg. Co., Inc. Combined hall clock and shelf unit. 213,453, 3–4–69, Cl. D42—7.
Edelman, Benjamin G., to United Metal Goods Mfg. Co., Inc. Combined clock and what-not shelves. 215,864, 11–4–69, Cl. D42—7.
Edelman, Benjamin G., to United Metal Goods Mfg. Co., Inc. Combined clock and multiple picture frame. 215,865, 11–4–69, Cl. D42—7.
Edenhofer, Harry J.: *See*—
Pfaff, Gilbert G., and Edenhofer. 215,252.
Edmondson, Ronald, to Plastiers Ltd. Gutter. 215,157, 9–9–69, Cl. D23—45.
Ednalite Corp., The: *See*—
Portman, Warren C., and Weinstein. 215,336.
Portman, Warren C., and Weinstein. 215,337.
Portman, Warren C., and Weinstein. 215,338.
Edson, Arnold G. Educational pendulum toy. 216,121, 11–25–69, Cl. D25—1.
Edwards, Bryant, to Illinois Tool Works Inc. Egg carton. 214,664, 7–15–69, Cl. D9—190.
Edwards, Bryant, to Illinois Tool Works Inc. Egg carton. 216,186, 12–2–69, Cl. D9—190.
Edwards Co., Inc.: *See*—
Berns, Charles. 215,974.
Berns, Charles. 215,975.
Berns, Charles. 215,976.
Berns, Charles. 215,977.
Berns, Charles. 215,978.
Edwards, Floyd B.: *See*—
Edwards, Gerald D. and F. B. 215,953.
Edwards, Gerald D. and F. B. Tooth for a power digger. 215,953, 11–11–69, Cl. D39—1.
Edwards, James H., and R. A. Serra, to Mohawk Data Sciences Corp. Data printer. 214,404, 6–10–69, Cl. D64—11.
Ehrlich, Don E., to Gregory Industries, Inc. Stud welding tool. 213,202, 1–14–69, Cl. D26—1.
Ehrlich, Melvin P.: *See*—
Arsenault, Gerald M., and Ehrlich. 213,292.

Eichelberger, Thomas L. Photoflash lamp mounting bracket. 215,499, 9–30–69, Cl. D61—1.
Eide, Allen N. Combined game table, cabinet, and record player unit. 215,220, 9–16–69, Cl. D33—14.
Einess, Hilda E. Dressmaker's pincushion. 213,353, 2–25–69, Cl. D3—19.
Eisele & Co,. Inc.: *See*—
Grodin, Adam J. 213,398.
Eisenberg, Alvin. Prompting machine. 213,855, 4–15–69, Cl. D96—9.
Eisner, Barry: *See*—
Frie, Herbert, and Eisner. 214,526.
Ekco Products, Inc.: *See*—
Bloch, Roy W., and Jewell. 214,832.
Eklund, Roland G., to Borg-Warner Corp. Vent cover or similar article. 214,501, 6–24–69, Cl. D23—151.
Ekuan, Kenji, to Yamaha Hatsudoki Kabushiki Kaisha (Yamaha Motor Co., Ltd.). Snowmobile. 216,389, 12–30–69, Cl. D14—24.
Ekuan, Kenji, to Yamaha Hatsudoki Kabushiki Kaisha (Yamaha Motor Co., Ltd.). Snowmibile. 216,390, 12–30–69, Cl. D14—24.
Elba Systems Corp.: *See*—
Grupp, Walter D. 216,225.
El-Chem Machinery, Inc.: *See*—
Paden, Robert L. 215,028.
Eldon Industries, Inc.: *See*—
Knowles, Alvis R. 213,782.
Knowles, Alvis R. 215,448.
Electone Hearing Aid Co.: *See*—
Young, David E. 213,109.
Electro-Voice Inc.: *See*—
Kahn, Albert. 213,567.
Electrohome Ltd.: *See*—
Duern, Gordon L. 214,321.
Duern, Gordon L. 214,343.
Duern, Gordon L. 214,954.
Duern, Gordon L. 214,955.
Duern, Gordon L., and Baldwin. 214,912.
Electrolux Corp.: *See*—
Gaudry, Paul E. 214,811.
Electronic Merchandise Corp. of California: *See*—
Stulman, Ivan R. 213,343.
Electronic Music Corp.: *See*—
Ross, Lloyd D., Jr. 214,057.
Elliott, Ernest A., and J. W. Kane, to The Detroit Edison Co. Laminated line riser. 214,731, 7–22–69, Cl. D26—12.
Ellison, Alice A. Combined glass retainer and spoon holder. 214,640, 7–8–69, Cl. D44—10.
Ellsworth, Arthur W., and R. K. Fujioka, to Samsonite Corp. Arm chair. 214,493, 6–24–69, Cl. D15—1.
Ellsworth, Arthur W., and R. K. Fujioka, to Samsonite Corp. Stool or similar article. 214,494, 6–24–69, Cl. D15—8.
Ellsworth, Michael G.: *See*—
Shannon, George T. 214,568.
Ellsworth, Ralph H., to Superior Funeral Supply Corp. Casket display bier. 215,435, 9–30–69, Cl. D19—1.
Ellsworth, Ralph H., to Superior Funeral Supply Corp. Base for sanctuary lamp or mass card holder. 215,476, 9–30–69, Cl. D48—20.
Ellsworth, Ralph H., to Superior Funeral Supply Corp. Floor lamp base. 215,477, 9–30–69, Cl. D48—20.
Elpo Industries, Inc.: *See*—
Appel, Mel, and Schnur. 213,309.
Elster's: *See*—
Sand, Robert H. 214,245.
Elwell, Percy E.: *See*—
Wallace. Floyd E., and Elwell. 213,772.
Ely, Laurice D. Combined beverage and beverage additive concentrate package and stirrer. 216,099, 11–25–69, Cl. D9—185.
Emerson Electric Co.: *See*—
Corson, Henry C., and Drugmand. 214,590.
Drugman, Lester D. 215,408.
Empire Stove Co.: *See*—
Hodges, Ralph R. 213,193.
Enger-Kress Co.: *See*—
Kery, Ervin. 213,411.
Englishtown Corp., The: *See*—
Mercer, Norman J. 213,346.
Epstein, Harry. Match box. 213,429, 3–4–69, Cl. D9—223.
Equipment Mfg. Co.: *See*—
Horwitz, Sam. 215,273.
Ericson, Roger K. Magazine rack. 213,502, 3–11–69, Cl. D33—2.
Ericson, Roger K. Swing. 216,317, 12–16–69, Cl. D34—5.
Eriksson, Ernst A. Removable ear piece for telephone instruments. 214,128, 5–13–69, Cl. D26—14.
Ernest, Robert O., and T. C. Mills, to Sunbeam Corp. Clock. 214,180, 5–20–69, Cl. D42—7.
Ernest, Robert O., and G. T. Guth, to Sunbeam Corp. Electric shaver. 214,822, 7–29–69, Cl. D95—3.
Esquire, Inc.: *See*—
Osborne, Edwin F., Jr. 213,580.
Osborne, Edwin F., Jr. 213,581.
Osborne, Edwin F., Jr. 213,583.
Osborne, Edwin F., Jr. 213,720.
Osborne, Edwin F., Jr. 215,175.
Essco Products Co.: *See*—
Antonio, James F., and F. L. 213,096.
Estes, David R., to Physics International Co. Radiometer. 215,120, 9–2–69, Cl. D52—6.
Estey Corp.: *See*—
Huck, Charles M. 215,807.
Estey Musical Instrument Corp.: *See*—
Warren, Robert L., and Loturco. 215,160.
Etablissements Carpano and Pons: *See*—
Laszlo, Nicolas. 215,599
Etablissements Genoud & Cie: *See*—
Genoud, Jean. 214,643.
Etablissements J & P Soubitez Societe a Responsabilite Limitee: *See*—
Soubitez, Pierre. 213,252.
Ettischer, Helmut, and K. Steiblinger, to Eastman Kodak Co. Camera or similar article. 216,053, 11–18–69, Cl. D61—1.
Evans-Aristocrat Industries, Inc.: *See*—
Evans, John J., Jr. 215,118.
Evans, Jack. Low profile wheeled cart, or similar article. 215,206, 9–16–69, Cl. D14—3.
Evans, John J., Jr., to Evans-Aristocrat Industries, Inc. Locking tape measure or similar article. 215,118, 9–2–69, Cl. D52—1.
Evans, Joseph A. Portable beach mat. 216,013, 11–18–69, Cl. D15—8.
Evans, Lyon D. Holder for glasses or tickets. 213,649, 3–25–69, Cl. D57—1.
Evans, Raymond W., Jr., to The B. F. Goodrich Co. Tire. 213,748, 4–1–69, Cl. D90—20.
Evans, Robert W. Equalizing valve manifold. 215,052, 8–26–69, Cl. D23—21.
Evans, William R., to AMP Inc. Bundle tie. 214,488, 6–24–69, Cl. D9—252.
Evansville Association for the Blind, Inc.: *See*—
Curtin, Kenneth M., Kern, White, and Baechle. 215,846.
Eversharp, Inc.: *See*—
Flowers, Theodore R. 213,978.
Flowers. Theodore R. 213,979.
Eveson, Albert L.: *See*—
Freeland, Elmer E., and Eveson. 216,289.
Eylure Ltd.: *See*—
Aylott, Eric V. 215,202.
Aylott, Eric V. 215,822.
Ez Dusit Products Co.: *See*—
Reed, Harry T. 214,635.
FMC Corp.: *See*—
Holm, Carl E. 215,438.
Kunkle, Calvin S. 216,388.
Faerber, Randall R.: *See*—
Broadus, Jerry N., Faerber, Noel, Stokes, and Union. 215,659.
Farmer, Robert W., to Orange Roller Bearing Co., Inc. Roller block. 214,682, 7–15–69, Cl. D46—1.
Farmer's Daughter, Inc.: *See*—
Knapp, Ralph R. 213,677.
Farmos Oy: *See*—
Viitanen, Heikki. 215,248.
Fattori, Lazzaro A., to William F. Blake, Inc. Combined penlight and tongue depressor holder. 215,984, 11–11–69, Cl. D83—12.
Faul, Thomas L.: *See*—
Feer, Lawrence P., and Faul. 215,895.
Faulhaber, Roland A., to Troxel Mfg. Co. Decorative seat brace. 215,990, 11–11–69, Cl. D90—15.
Faulhaber, Roland A., to Troxel Mfg. Co. Decorative seat brace. 215,991, 11–11–69, Cl. D90—15.
Faultless Starch Co.: *See*—
Mason John W. 214,048.
Fawick, Thomas L., to Eaton Yale & Towne Inc. Torque transmitting flexible coupling for rotatable shafts. 214,758, 7–22–69, Cl. D55—1.
Fawn Engineering Co.: *See*—
Wittern, Francis A. 216,223.
Feather, Jack V. Hand grip for a bust developer. 213,153, 1–7–69, Cl. D83—1.
Federico, Thomas A.: *See*—
Mills, Howard D., Jr., and Federico. 214,367.
Federman, Murray, to Glamorene Products Corp. Display rack. 213,740, 4–1–69, Cl. D80—10.
Fedtro, Inc.: *See*—
Kahn, Robert D. 213,216.
Kahn, Robert D. 213,530.
Kahn, Robert D. 214,468.
Kahn, Robert D. 214,628.
Kahn, Robert D. 214,914.
Kahn, Robert D. 215,702.
Kahn, Robert D. 215,940.
Ota, Hajime. 214,942.
Feer, Lawrence P., and T. L. Faul, to Woodall Industries Inc. 215,895, 11–4–69, Cl. D71—1.
Fees, Richard A., to Quaker Lace Co. Table cloth. 213,818, 4–8–69, Cl. D92—26.
Fegan, Richard M., to The Singer Co. Vacuum cleaner housing or similar article. 213,639, 3–25–69, Cl. D49—14.1.
Fegan, Richard M., to The Singer Co. Vacuum cleaner housing or similar article. 213,642, 3–25–69, Cl. D49—14.1.
Fegel, Albert. Time controlled valve. 213,498, 3–11–69, Cl. D23—19.
Feinberg, Steven S. Luggage lock. 214,303, 6–3–69, Cl. D8—129.
Feinson, Burton L. Combined soap dispenser and ash tray. 215,455, 9–30–69, Cl. D33—26.
Fekete, Jean-Marie, to Laboratories Lutsia. Dispenser for liquid soap and the like. 213,296, 2–4–69, Cl. D33—30.

Felden, Alois P., to Stahlgruber Otto Gruber & Co. Repair patch for rubber. 215,783, 10–28–69, Cl. D90—20.
Feldkircher, Clarence E.: *See*—
Berlik, Leroy J., and Feldkircher. 215,251.
Feldkircher, Clarence E., to Feldkircher Wire Fabricating Co. Burner grate or the like. 214,856, 8–5–69, Cl. D81—25.
Feldkircher, Clarence E., to Feldkircher Wire Fabricating Co. Burner grate or the like. 214,857, 8–5–69, Cl. D81—25.
Feldkircher Wire Fabricating Co.: *See*—
Feldkircher, Clarence E. 214,856.
Feldkircher, Clarence E. 214,857.
Feldmann, Frederick W., and R. S. Hill, to ILC Industries, Inc. Roof ventilator for a vehicle. 215,210, 9–16–69, Cl. D14—27.
Fellerman, Edwin L. Water skiing vehicle. 213,473, 3–4–69, Cl. D71—1.
Felten, Jerome N. Pipe holder. 215,192, 9–9–69, Cl. D85—8.
Fender, Clarence L., to Columbia Broadcasting Systems, Inc. Vibrato device for guitars. 214,592, 7–1–69, Cl. D56—1.
Fenton, Matthew R. Paving block. 214,532, 6–24–69, Cl. D60—1.
Fera, Gino. Holder for a dairy product carton or the like. 215,328, 9–23–69, Cl. D44—21.
Ferdinand, Irwin J., and I. R. Kulbersh, to S. A. Hirsh Mfg. Co. Knockdown steel shelving support. 214,724, 7–22–69, Cl. D13—1.
Ferguson, Martin J. Confection. 213,167, 1–14–69, Cl. D1—5.
Ferguson, Robert M.: *See*—
Carpenter, Lindell O., and Ferguson. 214,258.
Ferrara, Thomas. Bowl. 214,749, 7–22–69, Cl. D44—15.
Ferro Corp.: *See*—
Haley, Dwight L. 215,376.
Ferro, William P., to KCS Industries, Inc. Combined merchandise display and dispensing stand. 216,283, 12–9–69, Cl. D80—9.
Ferron, James R., to General Motors Corp. Motor vehicle lamp lens. 215,484, 9–30–69, Cl. D48—32.
Feth, Karl G. Security partition for police vehicles. 215,051. 8–26–69, Cl. D14—6.
Fetty, Harold D., to The Goodyear Tire & Rubber Co. Tire. 216,064, 11–18–69, Cl. D90—20.
Feuerer, William A. Piton or the like. 214,717, 7–22–69, Cl. D8—230.
Feuerer, William A. Piton or the like. 214,718, 7–22–69, Cl. D8—230.
Feuerer, William A. Hook for rock and mountain climbing. 216,359, 12–23–69, Cl. D8—230.
Fiberglass of Ohio, Inc.: *See*—
Plessinger, John A. 214,473.
Fidel, Nellie, to Modecraft Co., Inc. Shampoo basin. 216,015, 11–18–69, Cl. D23—64.
Field, Allen I. and S. P. Display hanger for hosiery. 214,968, 8–12–69, Cl. D80—8.
Field Emission Corp.: *See*—
Dyke, Walter P., and Grundhauser. 215,631.
Field, Sidney P.: *See*—
Field, Allen I. and S. P. 214,968.
Fields, Grover G., to Columbia Broadcasting System, Inc. Bridge for guitars. 213,646, 3–25–69, Cl. D56—1.
Fields, Grover G., and P. B. Spranger, to Columbia Broadcasting System, Inc. Bridge for guitars. 213,647, 3–25–69, Cl. D56—1.
Fields, Murray, to Consolidated Food Corp. Writing implement. 213,341, 2–18–69, Cl. D74—17.
Figura, William L., to Bruce Mfg., Inc. Two-wheeled tractor. 214,434, 6–17–69, Cl. D214—3.
Fillmore, Leland A., and V. H. Butler, to Burlington Industries, Inc. Knit panty hose. 215,641, 10–21–69, Cl. D2—7.
Finch, Robert L.: *See*—
Uber, Arthur E., Jr., Finch, and English. 215,237.
Findlay, Jack R. Combined mirror and shelf for toilet articles. 213,887, 4–22–69, Cl. D33—26.
Fine, Arnold, and M. Goldberg. Arithmetic teaching device. 214,054, 5–6–69, Cl. D25—1.
Fingerhut Mfg. Co.: *See*—
Morris, Ralph. 213,938.
Firma Lubke K.G.: *See*—
Muller, Walter, Hero, and Odermatt. 214,437.
First National Bank of Denver, The: *See*—
Davis, Harold and Brunson.
Fischer, Georg, Aktiengesellschaft: *See*—
Kreis, Walter, and Troesch. 215,495.
Fischer, Richard, to Braun Aktiengesellschaft. Electric shaver. 216,883, 12–23–69, Cl. D95—3.
Fishback, David D. Embossed label card. 213,412, 2–25–69, Cl. D96—8.
Fisher, Denys, to Denys Fisher Group Ltd. Drawing toy. 214,509, 6–24–69, Cl. D25—1.
Fisher, Denys, Group Ltd.: *See*—
Fisher, Denys. 214.509.
Fisher, James E., J. L. Mitchell, and G. F. Wisdom, to Tiger Products, Inc. Stand for trees. 215,863, 11–4–69, Cl. D35—3.
Fisher, James G., to NVF Co. Movable support for cones, cheeses or the like. 213,359, 2–25–69, Cl. D14—3.
Fisher, John, to ILC Industries, Inc. Helmet. 214,547, 7–1–69, Cl. D2—232.
Fisher, John, to ILC Industries, Inc. Helmet and slidable visor. 214,824, 8–5–69, Cl. D2—252.
Fisher, John, to ILC Industries, Inc. Helmet. 215,137, 9–9–69, Cl. D2—232.
Fisher-Pierce Co., Inc., The: *See*—
Dougherty, Robert J., and Cronin. 214,765.
Fisher-Price Toys, Inc.: *See*—
Crawford, Ralph W. 214,328.
Crawford, Ralph W. 214,929.
Smith, John D. 216,320.
Fishlove, H., & Co.: *See*—
Rizner, Anton. 215,256.
Fitzpatrick, John J., J. E. Hess, and R. P. Wilton, to Wilton Brass Co. Handle for a culinary utensil. 215,230, 9–16–69, Cl. D44—29.
Fitzpatrick, John J., J. E. Hess, and R. P. Wilton, to Wilton Brass Co. Handle for a culinary utensil. 215,231, 9–16–69, Cl. D44—29.
Fitzpatrick, John J., J. E. Hess, and R. P. Wilton, to Wilton Brass Co. Handle for a culinary utensil. 215,232, 9–16–69, Cl. D44—29.
Fitzpatrick, John J., J. E. Hess, and R. P. Wilton, to Wilton Brass Co. Handle for a culinary utensil. 215,233, 9–16–69, Cl. D44—29.
Fitzpatrick, John R.: *See*—
Kukon, John P., Fitzpatrick, and Bock. 213,510.
Flachbarth, Charles T., and L. H. Ostrye, to Textron Inc. Building panel. 215,963, 11–11–69, Cl. D54—2.
Flaherty, James P. Game board. 213,788, 4–8–69, Cl. D34—5.
Flam, Frederick H. Duplicate bridge board or similar article. 214,840, 8–5–69, Cl. D34—13.
Flaminaire Marcel Quercia: *See*—
Quercia, Marcel. 214,393.
Flannigan, William J. Paddle board for skin divers or the like. 214.598, 7–1–69, Cl. D71—1.
Fleming, Jack F., to Sterling Plastics Co. Knife. 213,283, 1–28–69, Cl. D95—3.
Fleming, Jack F., to Sterling Plastics Co. Staple remover. 214,358, 6–10–69, Cl. D8—48.
Fleming, Jack F. Tape Dispenser. 214,405, 6–10–69, Cl. D74—1.
Fleming, John S., to Floxite Co., Inc. Dental mirror. 215,721, 10–28–69, Cl. D24—1.
Fleming, Lawrence T. Frame for a coil winding machine. 215,324, 9–23–69, Cl. D41—1.
Fleming, Robert L. Diaper fastener. 213,420, 3–4–69, Cl. D2—448.
Flewwellin, Marlene W. False eyelash applicator. 213,239, 1–14–69, Cl. D86—10.
Flowers, Theodore R., Eversharp, Inc. Combination hot lather dispenser and aerosal lather container. 213,978, 4–29–69, Cl. D33—30.
Flowers, Theodore R., to Eversharp, Inc. Hot lather dispenser. 213,979, 4–29–69, Cl. D33—30.
Floxite Co., Inc.: *See*—
Fleming, John S. 215,721.
Flugger, Ray T. Engine exhaust system. 214,037, 5–6–69, Cl. D14—6.
Fluid Energy Processing & Equipment Co.: *See*—
Stephanoff, Nicholas N. 213,645.
Flum, Paul L. Modular display unit. 215,627, 10–14–69, Cl. D80—9.
Foerster, Georg. Surgical fabric clasp or similar article. 215,904, 11–4–69, Cl. D83—12.
Folger, William A., to Lighting Products, Inc. Illuminable vanity mirror. 215,257, 9–16–69, Cl. D86—10.
Folkman, Bern D., to American Hospital Supply Corp. Tray for medical equipment. 213,933, 4–22–69, Cl. D83—1.
Folkman, Bern D., to American Hospital Supply Corp. Tray for medical equipment. 213,934, 4–22–69, Cl. D83—1.
Fontana, John. Tie pin or the like. 213,758, 4–8–69, Cl. D2—431.
Fontanesi, Ginette A. Brassiere. 214,982, 8–19–69, Cl. D2—24.
Foote, J. B., Foundry Co., The: *See*—
Hauser, Hans. 214,492.
Forda Mfg. Co. Ltd.: *See*—
Chi, Yiu D. 214.084.
Chi, Yiu D. 214,396.
Forey, Frank J. Combined wrist watch and radio. 216,321, 12–16–69, Cl. D42—8.
Forey, Frank J. Combined pendant watch and radio. 216,322, 12–16–69, Cl. D42—8.
Form, Inc.: *See*—
Miller, James E. 215,598.
Forman, Louis. Display stand for alcoholic beverages or the like. 215,916, 11–4–69, Cl. D96—12.
Fornoff, Heinz: *See*—
Curriston, Loren E., and Fornoff. 213,732.
Curriston, Loren E., and Fornoff. 213,733.
Curriston, Loren E., and Fornoff. 213,734.
Forster, Georg. Surgical retractor unit. 214,475, 6–17–69, Cl. D83—12.
Fortune, William S. Desoldering tool or the like. 215,197, 9–16–69, Cl. D8—30.
Fortune, William S. Desoldering implement or the like. 215,216, 9–16–69, Cl. D26—1.
Fortuno, John. Lavatory basin. 216,310, 12–16–69, Cl. D23—58.
Fortuno, John. Lavatory basin. 216,311, 12–16–69, Cl. D23—58.
Fossella, Gregory, to Proctor-Silex, Inc. Vacuum cleaner. 214,339, 6–3–69, Cl. D49—13.
Foster, John A., to J. L. Clark Mfg. Co. Display stand. 214,540, 6–24–69, Cl. D80—9.

Fostoria Glass Co.: *See*—
Seibel, Ben. 214,071.
Seibel, Ben. 216,268.
Seibel, Ben. 216,269.
Yutzey, Marvin G. 213,250.
Yutzey, Marvin G. 213,251.
Fountain Industries, Inc.: *See*—
Syverson, Martelle J. 215,259.
Fowler, John B. Carpet or similar article. 215,398, 9–23–69, Cl. D92—4.
Fowler, John B. Carpet or similar article. 215,788, 10–28–69, Cl. D92—4.
Fowler, John B. Carpet or similar article. 215,912, 11–4–69, Cl. D92—4.
Fowlsaver, Inc.: *See*—
Perrin, Jack L., and Tucker. 214,199.
Foxell, Jack S., to The British Oxygen Co. Soda syphon. 213,489, 3–4–69, Cl. D94—3.
Francis, John P. Combination window awning and case structure. 216,103, 11–25–69, Cl. D13—1.
Franco, Alfredo A., to Armstrong Cork Co. Hard surface floor covering or similar article. 214,821, 7–29–69, Cl. D92—4.
Frank, Anthony M.: *See*—
Nemeth, Otto R. 214,701.
Frank, Edward M.: *See*—
Winston, Eric, and Frank. 215,722.
Frank, John. Mug. 215,868, 11–4–69, Cl. D44—9.
Frankel, John L., and S. Kelsey, to Harvey Aluminum (Inc.). Faucet handle or the like. 213,441, 3–4–69, Cl. D23—28.
Fraser, Andrew S.: *See*—
Sinclair, Malcolm D., and Stahel. 215,400.
Fraze, Ermal C.: *See*—
Peters, Don B. 214,027.
Peters, Don B., and Powell. 215,415.
Freeborn, Marie-Jose. Dog comfort station. 214,739, 7–22–69, Cl. D30—99.
Freed, Leonard N., to Cities Service Oil Co. Combination gasoline pump dispenser and product storage unit. 214,946, 8–12–69, Cl. D52—2.
Freedman Artcraft. Engineering Corp.: *See*—
Freedman, Gordon L. 213,344.
Freedman, Gordon L., to Freedman Artcraft, Engineering Corp. Display cabinet. 213,344, 2–18–69, Cl. D80—11.
Freeland, Elmer E., and A. L. Eveson. Hydraulic bicycle brake. 216,289, 12–9–69, Cl. D90—1.
Freely, Inc.: *See*—
Friedman, Richard B. 214,472.
Frehner, Leon. Construction block. 213,686, 4–1–69, Cl. D18—2.
Freiman, David J., to Corning Glass Works. Combined display package and carrier for dishes or similar article. 214,125, 5–13–69, Cl. D9—191.
Fremdling, William F., to Wefco Rubber Mfg. Corp. Two-piece squeegee. 214,085, 5–6–69, Cl. D49—23.
Frey, Gerald J. Slide projector. 215,970, 11–11–69, Cl. D61—1.
Fricke, Paul M., Jr.: *See*—
Moore, Donald L., Fricke, and Spilman. 214,267.
Moore, Donald L., Fricke, Tucker, and Spilman. 214,834.
Frie, Herbert, and B. Eisner. Truck-mounted vacuum apparatus. 214,526, 6–24–69, Cl. D49—9.1.
Friedman, Julius, and C. Wellhofer, to Lighting Corp. of America. Pendant for lighting fixture. 214,751, 7–22–69, Cl. D48—14.
Friedman, Richard B., to Freely, Inc. Display stand for pants and the like. 214,472, 6–17–69, Cl. D80—9.
Friedrichs, John E., Jr. Shaker for flour breading recovery. 214,210, 5–20–69, Cl. D55—1.
Fritts, Russell A.: *See*—
Ballone, Michael P., Bunyea, and Fritts. 214,987.
Fritts, Russell A., to The Singer Co. Work transporting machine or similar article. 215,350, 9–23–69, Cl. D55—1.
Froehlich, Walter E. Combined teeter-totter and roundabout. 216,404, 12–30–69, Cl. D34—5.
Froelich, Ronald W., and J. V. Miller. Lamp. 215,480, 9–30–69, Cl. D48—20.
Frohnauer, Franklin M., Jr. Impacting machine. 215,497, 9–30–69, Cl. D60—1.
Fromkin, Saul. Wood musical instrument gauge. 213,220, 1–14–69, Cl. D52—6.
Fruit Orchard, Inc.: *See*—
Holloway, Bruce E. 213,741.
Fuerst, Brooks D., to Owens-Illinois, Inc. Bottle. 213,290, 2–4–69, Cl. D9—119.
Fuerst, Brooks D., to Owens-Illinois, Inc. Bottle. 213,767, 4–8–69, Cl. D9—105.
Fuerst, Edwin W.: *See*—
Beeman, Everett C., and Fuerst. 213,491.
Beeman, Everett C., and Fuerst. 213,492.
Fuji Shashin Film Kabushiki Kaisha: *See*—
Ikegami, Kichizo, Tanaka, and Fukuda. 213,806.
Fujioka, Robert K.: *See*—
Ellsworth, Arthur W., and Fujioka. 214,493.
Ellsworth, Arthur W., and Fujioka. 214,494.
Fukuda, Susumu: *See*—
Ikegami, Kichizo, Tanaka, and Fukuda. 213,806.
Fullerton, Arthur M., to The Scott & Fetzer Co. Engine. 214,539, 6–24–69, Cl. D77—1.
Furniture Production Systems, Inc.: *See*—
Rzetelny, Bernard. 213,114.
Fusco, Frank C., and N. C. and W. Gold, to Louis Marx & Co., Inc. Typewriter. 216,339, 12–16–69, Cl. D64—11.
Futterer, Bodo, to The Gillette Co. Charging unit for electric shavers. 214,059, 5–6–69, Cl. D26—15.
GAF Corp.: *See*—
Lanigan, Richard W. 214,000.
Steinbach, Thomas M. 215,034.
Steinbach, Thomas M. 215,035.
Steinbach, Thomas M., and Simonelli. 214,001.
Steinbach, Thomas M., and Simonelli. 214,099.
Szymber, Oleg. 214,700.
GW Electronics, Inc.: *See*—
Golden, Gerald J., Tsuji, and Walker. 214,760.
Gaarder, Gilbert W.: *See*—
Kincaid, Gary L., and Gaarder. 214,930.
Gaarder, Gilbert W., and E. E. Hollingsworth, to Gray Mfg. Co., Inc. Transmission jack. 216,034, 11–18–69, Cl. D41—1.
Gaarder, Gilbert W., and E. L. Vollmer, to Gray Mfg. Co., Inc. Dual cylinder vehicle lift. 216,405, 12–30–69, Cl. D41—1.
Gaffney, Bernard J., to Conwed Corp. Ceiling panel or similar article. 213,688, 4–1–69, Cl. D18—2.
Gaglio, Peter A., G. E. Hansen, and W. L. Krueger, to Crane Co. Valve. 215,156, 9–9–69, Cl. D23—38.
Gagne, John G., to The Wurlitzer Co. Combo organ or similar article. 213,591, 3–18–69, Cl. D56—2.
Gagne, Ligorie G. G. Ski sharpening device. 216,358, 12–23–69, Cl. D8—91.
Gahm, Wilbert J. Coaster. 215,014, 8–19–69, Cl. D44—10.
Galambossy, David. Golf putter head. 215,610, 10–14–69, Cl. D34—5.
Gale, John A. Slide. 213,271, 1–28–69, Cl. D34—5.
Gale, John A. Toy building block. 213,709, 4–1–69, Cl. D34—15.
Gallion, George A., to General Motors Corp. Motor vehicle lamp lens. 215,178, 9–9–69, Cl. D48—32.
Gallion, George A., to General Motors Corp. Motor vehicle lamp lens. 215,486, 9–30–69, Cl. D48—32.
Galloway, Roy P. Sheet of note paper. 215,890, 11–4–69, Cl. D59—14.
Gallup, Leslie E. Automatic wildlife feeding apparatus. 215,941, 11–11–69, Cl. D30—13.
Gallup, Robert L., to McGill Mfg. Co., Inc. Electric switch. 216,395, 12–30–69, Cl. D26—13.
Gambelunghi, Salvatore: *See*—
Brancato, Salvatore, and Gambelunghi. 213,652.
Gamble, William L., R. H. Russell, and R. A. Tarozzi, to The Superior Electric Co. Variable electric power supply unit. 214,836, 8–5–69, Cl. D26—15.
Game-Time, Inc.: *See*—
Wormser, Robert S. 213,268.
Wormser, Robert S. 213,269.
Wormser, Robert S. 213,270.
Wormser, Robert S. 213,272–78
Wormser, Robert S. 213,496.
Wormser, Robert S. 213,504.
Wormser, Robert S. 213,505.
Wormser, Robert S. 213,508.
Wormser, Robert S. 214,326.
Wormser, Robert S. 214,327.
Wormser, Robert S. 214,439.
Wormser, Robert S. 214,455.
Wormser, Robert S. 215,061.
Wormser, Robert S. 215,062.
Wormser, Robert S. 215,063.
Wormser, Robert S. 215,064.
Wormser, Robert S. 215,065.
Wormser, Robert S. 215,066.
Wormser, Robert S. 215,164.
Wormser, Robert S. 215,839.
Wormser, Robert S. 215,946.
Wormser, Robert S. 216,318.
Gandelman, Morris D., to Jacoby-Bender, Inc. Chain for a bracelet or the like. 214,810, 7–29–69, Cl. D45—4.
Gandy, Aaron E. Aquarium support base. 214,382, 6–10–69, Cl. D30—12.
Ganger, Harry. Baseball game device. 215,947, 11–11–69, Cl. D34—5.
Gantz, Carroll M., to The Hoover Co. Suction cleaner. 214,397, 6–10–69, Cl. D49—14.1.
Gantz, Carroll M., J. T. Sestak, and R. H. Hose, to The Hoover Co. Suction cleaner casing. 213,132, 1–7–69, Cl. D49—14.
Gantz, Carroll M., R. H. Hose, and J. T. Sestak, to The Hoover Co. Hair dryer. 214,407, 6–10–69, Cl. D86—10.
Gantz, Carroll M., R. H. Hose, and J. T. Sestak, to The Hoover Co. Suction cleaner. 215,489, 9–30–69, Cl. D49—14.1.
Garbark, Roman F., to D. Gottlieb & Co. Bumper for a pinball machine. 213,981, 4–29–69, Cl. D34—5.
Gardner, Denise C., and M. I. Glass, to Marvin Glass & Associates. Girls apron. 214,256, 5–27–69, Cl. D2—228.
Gardner, Norman S. Motorized golf cart. 214,313, 6–3–69, Cl. D14—3.
Gardner, Reed P. Lantern. 214,461, 6–17–69, Cl. D48—31.
Gardner, Robert L., to G. Hurley, d.b.a. Walter F. Hurley Gin. Cover for a truck bed. 213,361, 2–25–69, Cl. D14—27.
Gardsby, Christer O. Plectrum holder. 215,029, 8–19–69, Cl. D56—1.
Garfinkel, Jack, to Swingline Inc. Carton closing machine or similar article. 214,866, 8–12–69, Cl. D8—49.
Garfinkle, Marvin E.: *See*—
Toerge, Fred L., and Garfinkle. 215,492.

Garson, Arthur, to Wahl Associates, Inc. Clothes supporting rod for a display stand or the like. 213,280, 1–28–69, Cl. D80—8.
Garson, Arthur, to Wahl Associates, Inc. Clothes supporting rod for a display stand. 214,406, 6–10–69, Cl. D80—10.
Garten, Clarence E. Bird feeder or similar article. 214,173, 5–20–69, Cl. D30—15.
Garwin, Robert. Die press platen. 215,365, 9–23–69. Cl. D63—1.
Gaska, John M.: *See*—
Abend, Chester J., and Gaska. 214,542.
Gatley, Derrick R., to Graviner (Colnbrook) Ltd. Dispenser for liquids or fluidised powders. 214,049, 5–6–69, Cl. D23—17.
Gatlin, Philip D.: *See*—
Howser, Lewis E., and Gatlin. 216,078.
Gaudry, Paul E., to Electrolux Corp. Dispensing tank for a floor treating machine or similar article. 214,811, 7–29–69, Cl. D49—17.
Gauvin, Charles A. Combined peg head, neck and finger board of a guitar or similar article. 214,647, 7–8–69, Cl. D56—1.
Gauvin, Charles A. Body of a stringed musical instrument. 214,648, 7–8–69, Cl. D56—1.
Gavette, Richard C., to Towle Mfg. Co. Fork or similar article of flatware. 215,022, 8–19–69, Cl. D54—12.
Gawrys, John. Table. 213,322, 2–18–69, Cl. D33—14.
Gawrys, John. Bar 213,325, 2–18–69, Cl. D33—19.
Gawura, Eugene. Wire forming and cutting implement. 213,222, 1–14–69, Cl. D54—13.
Gay, Robert C., and C. F. Milan, to Ohio Wire Products Co., Inc. Foldable bag-supporting stand. 214,645, 7–8–69, Cl. D49—34.
Gaya, William L., to The Bates Mfg. Co. Stapler. 214,601, 7–1–69, Cl. D74—1.
Gazit, Shlomo. Chair. 216,305, 12–16–69, Cl. D15—8.
Gazzo, Joseph F. Vehicle light unit. 214,135, 5–13–69, Cl. D48—32.
Gelardi, Anthony: *See*—
Lyman, George, and Gelardi. 213,535.
Gellette Co., The: *See*—
Vignelli, Massimo. 215,647.
Vignelli, Massimo. 215,648.
Geltner, Daniel, to Parkins Products Corp. Plastic moulding. 213,436, 3–4–69, Cl. D13—6.
Genaro, Donald M.: *See*—
Dreyfuss, Henry, and Genaro. 215,664.
Genaro, Donald M., to Philip Morris Inc. Razor blade dispenser. 215,142, 9–9–69, Cl. D9—224.
Genaro, Donald M., to Teletype Corp. Cover for data communications apparatus. 215,546, 10–7–69, Cl. D26—5.
Genaro, Donald M., to Teletype Corp. Data communications apparatus. 215,547, 10–7–69, Cl. D26—5.
General Electric Co.: *See*—
Bowman, Dean C., Waldrop, and Webb. 214,169.
Canney, Robert S. 215,447.
Daher, Theodore G. 215,258.
Daher, Theodore G., and Judson. 214,179.
Daher, Theodore G., and Judson. 214,637.
Daher, Theodore G., and Judson. 216,212.
Johnson, Carl N. 215,956.
Judson, William V. 214,519.
Judson, William V. 214,638.
Mellyn, Lawrence P. 214,990.
Mellyn, Lawrence P. 214,991.
Pettengill, Myron F. 214,938.
Stewart, Earl K. 216,263.
Tomkinson, Stanley E. 213,626.
General Equipment and Mfg. Co., Inc.: *See*—
Donovan, James P. 214,908.
General Fire Extinguisher Corp.: *See*—
Koch, Arnold H. 213,954.
General Fireproofing Co., The: *See*—
Bell, Mace, Jr., and Westcott. 215,836.
Bender, Norman R. 213,324.
General Foods Corp.: *See*—
O'Brien, Kevin M., and Burns. 213,305.
General Mills, Inc.: *See*—
Goldman, Lawrence. 214,994.
King, Charles W. 213,084.
General Motors Corp.: *See*—
Ferron, James R. 215,484.
Gallion, George A. 215,178.
Gallion, George A. 215,486.
Henline, Terry R. 215,482.
Henline, Terry R. 215,483.
Henline, Terry R. 215,485.
Henline, Terry R. 215,487.
General Signal of Canada Ltd.: *See*—
Jarl, Lars E., and Taylor. 215,713.
Jarl, Lars E., and Taylor. 215,932.
Vesely, Donald V., and Dalpiaz. 215,669.
Vesely, Donald V., and Dalpiaz. 216,221.
General Time Corp.: *See*—
Appel, Mel. 215,326.
Appel, Mel. 215,327.
D'Ercoli, Giacinto C. 213,799.
D'Ercoli, Giacinto C. 215,955.
Klein, Milton F. 213,457.
Levin, Monte L. 213,456.
Levin, Monte L. 216,036.
Miley, David W. 213,454.
Miley, David W. 213,795.
General Time Corp.: *See*—Continued
Protzmann, Donald E. 213,793.
Szalek, Roman J. 213,455.
Toffolon, Siro R. 213,794.
Toffolon, Siro R. 214,520.
Toffolon, Siro R. 214,676.
Toffolon, Siro R. 214,748.
Toffolon, Siro R. 216,035.
Genin, Robert, to Child Guidance Toys Inc. Toy railroad hand car. 214,068, 5–6–69, Cl. D34—15.
Genoud, Jean, to Etablissements Genoud & Cie. Lighter. 214,643, 7–8–69, Cl. D48—27.
Gens, Jerald H., to Char-Lynn Co. Directional control valve. 215,935, 11–11–69, Cl. D23—19.
George, Peter D., to Textron Inc. Chain saw. 216,384, 12–30–69, Cl. D8—65.
Gera, Robert A., to Schnadig Corp. Sofa. 213,774, 4–8–69, Cl. D15—11.
Gera, Robert A., to Schnadig Corp. Sofa. 213,775, 4–8–69, Cl. D15—11.
Gera, Robert A., to Schnadig Corp. Sofa. 213,776, 4–8–69, Cl. D15—11.
Gerb, Francis J., to Zenith Radio Corp. Portable radio. 216,050, 11–18–69, Cl. D56—4.
Gerlich, Stephen. Coffee measuring cup. 213,719, 4–1–69, Cl. D44—29.
Gershman, Melvin Y.: *See*—
Diemond, Joseph, Gershman, and Ravreby. 216,260.
Gerson, Henry, to Tri-Chem, Inc. Dispensing nozzle for a collapsible tube or the like. 214,365, 6–10–69. Cl. D9—275.
Gianfagna, John L., to Sperry Rand Corp. Automatic records retrieval unit. 214,274, 5–27–69, Cl. D26—5.
Gianfagna, John L., to Sperry Rand Corp. Cabinet. 214,742, 7–22–69, Cl. D33—19.
Gianfagna, John L. Single study carrell unit. 216,025, 11–18–69, Cl. D33—11.
Gianfagna, John L., and E. G. Jansons, to Sperry Rand Corp. Microfilm reader. 216,052. 11–18–69, Cl. D61—1.
Giannoulis, Cosmas C., to Lilli Ann Corp. Coat. 213,609, 3–18–69, Cl. D2—183.
Giannoulis, Cosmas C., to Lilli Ann Corp. Coat. 213,610, 3–18–69, Cl. D2—206.
Gibbs, Francis O., to Southern Mechanical Products Co. Combined mop handle support and stop. 214,198, 5–20–69, Cl. D49—21.
Giebelhausen, Charles W., to Sescon Industries, Inc. Copying machine. 215,364, 9–23–69, Cl. D61—1.
Giesecke, Albert S. Pamphlet holder. 214,300, 5–27–69, Cl. D96—3.
Gifford, W. O.: *See*—
Cherry, Allen B. 213,370.
Gilb, Tyrell T. Post base. 215,727, 10–28–69, Cl. D28—1.
Gilbert, Leland G.: *See*—
Dreyfuss, Henry, Conner, Borsheim, Miller, and Gilbert. 213,869.
Gillen, Martin I. Jack. 216,144, 11–25–69, Cl. D41—1.
Giller, Ronald R., to Distograph Products, Inc. Hearing aid. 213,448, 3–4–69, Cl. D26—14.
Giller, Ronald R., to Dictograph Products Co. Hearing aid. 213 969, 4–29–69, Cl. D26—14.
Gillespie, Clyde E. Insulated carafe. 214,076, 5–6–69, Cl. D44—21.
Gillette Co., The: *See*—
Futterer. Bedo. 214,059.
Muscatiello, Ralph A. 214,829.
Reichl, Ernst. 214,487.
Vignelli, Massimo. 214,307.
Vignelli, Massimo. 215,701.
Gilmore, Leonard W.: *See*—
Brunetti, Lawrence G., Gilmore, Goodrich, J. F. and V. H. Henshaw, and Richards. 215,005.
Gilson, Channing W., to The Bunker-Ramo Corp. Computer data input/output console. 213,831, 4–15–69, Cl. D26—5.
Gilson, Channing W., to Columware, Inc. Beverage dispenser. for iced tea or the like. 215,533, 9–30–69, Cl. D94—3.
Gilson, Channing W., to American Hospital Supply Corp. Basin for medical liquids. 215,566, 10–7–69, Cl. D83—1.
Gingher, Carl E. Garment hanger bar. 216,024, 11–18–69, Cl. D33—8.
Gingher, Carl E. Garment hanger. 216,056, 11–18–69, Cl. D80—8.
Gingher, Carl E. Garment hanger stem. 216,057, 11–18–69, Cl. D80—8.
Gjede, William F. Portable lectern. 215,665, 10–21–69, Cl. D29—23.
Glamorene Products Corp.: *See*—
Federman, Murray. 213,740.
Margolies, Charles R. 213,603.
Glass, Henry P., to F. W. Means & Co. Towel discharge cabinet. 215,560, 10–7–69, Cl. D52—2.
Glass, Marvin, & Associates: *See*—
Gardner, Denise C., and Glass. 214,256.
Glass, Marvin I., and Jackson. 214,257.
McFarland, Norman T. 214,296.
McFarland, Norman T. 214,349.
Schoenfield, Palmer J. 214,279.
Glass, Marvin I.: *See*—
Gardner, Denise C., and Glass. 214,256.
Glass, Marvin I., and P. M. Jackson, to Marvin Glass & Associates. Boys apron. 214,257, 5–27–69, Cl. D2—228.
Glass, William T. Ash tray. 215,776, 10–21–69, Cl. D85—2.
Glass, William T. Ash tray. 215,779, 10–28–69, Cl. D85—2.

Glassman, Jacob A. Catamenial napkin. 215,386, 9–23–69, Cl. D83—1.
Glavin, Anthony J. Ash tray. 215,254, 9–16–69, Cl. D85—2.
Glennon, Maurice C. Stapling machine. 214,986, 8–19–69, Cl. D8—49.
Glommen, Anton L. Loader for garden tractor. 214,833, 8–5–69, Cl. D14—3.
Glover, William T., and E. W. Kelly, to Squires-Sanders, Inc. Data terminal for use with computer systems and off line equipment. 215,847, 11–4–69, Cl. D26—5.
Gobin, Donald L., and R. M. Goodman, to Roper Corp. Handle for lawnmowers, snow blowers or similar articles. 215,111, 9–2–69, Cl. D40—1.
Godley, William P.: *See*—
Dietrich, Michele, and Godley. 216,264.
Godwin, Robert H.: *See*—
Speicher, Alan W., and Godwin. 213,494.
Goeders, John J. Portable pitcher's mound. 214,743, 7–22–69, Cl. D34—5.
Goeury, Jean-Pierre, to Office d'Etudes et de Diffusion Pharmaceutique & Centre de Recherche et d'Etude Medicale O.E.D.I.P.-C.E.R.E.M. Holder for a card index or the like. 214,143, 5–13–69, Cl. D74—2.
Goff, Donald H., to American Can Co. Stand-up dispensing tube. 213,426, 3–4–69, Cl. D9—194.
Goheen, Luther T., Jr. Stilt. 216,140, 11–25–69, Cl. D34—14.
Gold, Norman C.: *See*—
Fusco, Frank C., and N. C. and W. Gold. 216,339.
Gold, William: *See*—
Fusco, Frank C., and N. C. and W. Gold. 216,339.
Goldberg Bros., Inc.: *See*—
Goldberg, Morris. 213,229.
Goldberg, Morris. 214,819.
Goldberg, Harris. Perforator. 213,916, 4–22–69, Cl. D55—1.
Goldberg, Morris, to Goldberg Bros., Inc. Inertia defeating film reel. 213,229, 1–14–69, Cl. D61—1.
Goldberg, Morris, to Goldberg Bros., Inc. Film reel shipping carton. 214,819, 7–29–69, Cl. D87—1.
Goldberg, Myron: *See*—
Fine, Arnold, and Goldberg. 214,054.
Golden, Gerald J., T. T. Tsuji, and J. E. Walker, to GW Electronics, Inc. Housing for a radio tuner or the like. 214,760, 7–22–69, Cl. D56—4.
Golden, Harry, to Ideas for Auto and Bike Specialties, Inc. Velocipede saddle. 213,487, 3–4–69, Cl. D90—16.
Golden, Harry, to Ideas for Auto and Bike Specialties, Inc. Velocipede saddle. 213,488, 3–4–69, Cl. D90—16.
Golden, Harry, to Ideas For Auto and Bike Specialties, Inc. Velocipede fender. 215,571, 10–7–69, Cl. D90—5.
Goldfarb, Adolph E., and R. Soriano; said Soriano assor. to said Goldfarb. Game piece. 215,223, 9–16–69, Cl. D34—5.
Golding, Fred E.: *See*—
Carpenter, Joseph D., and Golding. 213,550.
Golding, Fred E., to Aeon Industries, Inc., d.b.a. Pride Products Co. Infant swing seat. 213,579, 3–18–69, Cl. D15—1.
Goldman, Lawrence, to General Mills, Inc. Jar. 214,994, 8–19–69, Cl. D9—129.
Goldmeier, Larry. Bicycle gear protector. 213,162, 1–7–69, Cl. D90—1.
Goldstein, Arthur, and T. Sobel. Display form for panty hose and the like. 214,217, 5–20–69, Cl. D80—8.
Goldstein, Arthur, and T. Sobel. Display rack. 214,474, 6–17–69, Cl. D80—10.
Goldston, Roland H., Jr. Bumper engaging unit for truck attached lifting and towing devices or the like. 215,067, 8–26–69, Cl. D41—1.
Gonnet S.A.: *See*—
Rias, Lucien. 216,294.
Gonshorek, Milton, to International Silver Co. Spoon or similar article of flatware. 214,757, 7–22–69, Cl. D54—12.
Goodall, Jack A., to Venetian International, Inc. Bathtub. 214,902, 8–12–69, Cl. D23—55.
Goodall Rubber Co.: *See*—
Borden, Clarence W., Kocsis, and Kubala. 215,091.
Goodman, Robert M.: *See*—
Clarke, George C., Mango, and Goodman. 213,682.
Gobin, Donald L., and Goodman. 215,111.
Goodrich, B. F., Co., The: *See*—
Evans, Raymond W., Jr. 213,748.
Makris, Aristides. 214,773.
Morstatter, Miles F. 214,149.
Pond, James W. 215,395.
Pond, James W. 215,396.
Sanglovanni, Charles A. 214,355.
Tucker, Gary M. 213,750.
Wittenmyer, Glen L. 215,992.
Goodrich, Eugene E., and P. J. Daniels. Container for liquids. 214,361, 6–10–69, Cl. D9—175.
Goodrich, Jack R.: *See*—
Brunetti, Lawrence G., Gilmore, Goodrich, J. F. and V. H. Henshaw, and Richards. 215,005.
Goodrich, Kenneth W. Pre-assembled residence. 216,252, 12–9–69, Cl. D13—1.
Goodyear Aerospace Corp.: *See*—
Bair, Herbert Q., and Nebiker. 215,247.
Goodyear Tire & Rubber Co., The: *See*—
Allen, Robert M. 214,229.
Cvengros, David V. 215,573.
Cvengros, David V., and Hammond. 216,354.
Fetty, Harold D. 216,064.
Petroff, Ronald P. 213,659.
Porosky, George R. 216,355.
Pules, Maurice L. 215,572.
Gordon, A.: *See*—
Rivera, Benigno A. 216,122.
Gordon, John M., and H. Letherland, to Raleigh Industries Ltd. Bicycle frame. 213,606, 3–18–69, Cl. D90—8.
Gordon, John M., H. Letherland, and T. J. D. P. Karen. Bicycle. 214,820, 7–29–69, Cl. D90—8.
Gordon, Paul C.: *See*—
Scarnato, Thomas J., and Gordon. 213,524.
Gorman, John F. Liquid spray dispenser. 215,817, 11–4–69, Cl. D9—8.
Gorman, Myer, to Sun Chemical Corp. Combined display package and coreless roll dispenser. 214,362, 6–10–69, Cl. D9—187.
Gorman, Samuel K., to Dalton-Gorman Industries, Inc. Fireplace mantel. 213,614, 3–25–69, Cl. D13—5.
Gothing, Gilbert A., to Ikor, Inc. Enclosure for variable-speed electronic pump drive. 214,960, 8–12–69, Cl. D65—1.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 213,995, 4–29–69, Cl. D48—27.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 215,116, 9–2–69, Cl. D48—27.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 215,176, 9–9–69, Cl. D48—27.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 215,177, 9–9–69, Cl. D48—27.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Pocket lighter. 215,342, 9–23–69, Cl. D48—27.
Gottlieb, D., & Co.: *See*—
Garbark, Roman F. 213,981.
Gould-Cargill & Co., Inc.: *See*—
Anderson, Clyde L. 218,123.
Anderson, Clyde L. 214,518.
Goupil, Jean-Jacques: *See*—
Coche-Allet, Pierre. 214,555.
Gozonsky, Irving: *See*—
Bomeisler, Douglas, Broderick, Gozonsky, and Pedersen. 216,349.
Grabes, Walter. Friction saw for cutting off metal or the like. 216,179, 11–25–69, Cl. D93—3.
Grace Machinery Corp.: *See*—
Hinds, Horace, Jr. 215,074.
Grace, W. R., & Co.: *See*—
Miller, Wesley W., Greenlee, Hagerty, and Litschi. 216,377.
Gracey, Yale W., to Wed Enterprises Inc. Clock. 214,806, 7–29–69, Cl. D42—7.
Grady, James B. Support frame for sign boards or the like. 213,607, 3–18–69, Cl. D96—12.
Graf, Carl P.: *See*—
Haaland, John E., and Graf. 216,272.
Graff, David F., and C. A. Hagberg, to Litton Precision Products, Inc. Microwave oven. 215,513, 9–30–69, Cl. D81—4.
Graham Paper Co.: *See*—
La Fara, James S. 215,945.
Larson, John J. M. 215,019.
Grainer, Emmett J. Portable desk. 215,943, 11–11–69, Cl. D33—7.
Grande, Samuel A. Combined tweezers and clipper. 214,225, 5–20–69, Cl. D86—10.
Grandon, Kenneth E., Jr.: *See*—
Cooper, Myron G., and Grandon. 215,261.
Cooper, Myron G., Grandon, and Vondell. 213,941.
Cooper, Myron G., Grandon, and Vondell. 213,942.
Cooper, Myron G., Grandon, and Vondell. 213,943.
Cooper, Myron G., Grandon, and Vondell. 213,944.
Cooper, Myron G., Grandon, Vondell, and Ellis. 213,945.
Cooper, Myron G., Grandon, Vondell, and Ellis. 213,946.
Grange, Kenneth H., to Wilkinson Sword Ltd. Case for containing a safety razor. 216,001, 11–18–69, Cl. D9—186.
Granholm, Lars E., to Outboard Marine Corp. Boat hull. 214,767, 7–22–69, Cl. D71—1.
Granowitz, Jack M.: *See*—
Buccino, Gaetano S., and Granowitz. 213,323.
Grantham, Joseph C.: *See*—
Roper, Gilbert I., and Grantham. 213,629.
Graviner (Colnbrook) Ltd.: *See*—
Gatley, Derrick R. 214,049.
Grawoig, Earl W.: *See*—
Munson, Austin H., Grawoig, and Martin. 214,905.
Gray, Avrum and S. Universal joint tester. 215,180, 9–9–69, Cl. D52—6.
Gray Mfg. Co., The: *See*—
Gaarder, Gilbert W., and Hollingsworth. 216,034.
Gaarder, Gilbert W., and Vollmer. 216,405.
Kincaid, Gary L., and Gaarder. 214,930.
Yang, Peter Q. 213,568.
Yang, Peter Q. 214,794.
Gray, Sheldon: *See*—
Gray, Avrum and S. 215,180.
Greaney, Harry D. Combined glass and holder. 214,331, 6–3–69, Cl. D36—8.
Grear, James M.: *See*—
Cowan, Murray L., and Grear. 213,541.
Great Neck Saw Manufactures, Inc.: *See*—
Jacoff, Sydney. 214,827.
Great Western Sugar Co., The: *See*—
Smith, James M. 215,541.
Green, Charles H.: *See*—
Grogan, George C., Green, Beattie, Miller, and Johnston. 215,212.

Green, Donald E. Collapsible bed. 215,803, 11–4–69, Cl. D5—4.
Green, Robert F., to Johns-Manville Corp. Wall panel. 213,367, 2–25–69, Cl. D18—2.
Greenberg, Leonard E.: *See*—
Diemond, Joseph, and Greenberg. 213,839.
Greenberg's, M., Sons, Inc.: *See*—
Page, Edward. 214,729.
Page, Edward. 214,730.
Page, Edward. 214,899.
Page, Edward. 214,900.
Page, Edward. 214,901.
Page, Edward. 215,284.
Page, Edward. 215,285.
Greene, Gordon L. Holding fixture for engine heads. 214,093, 5–6–69, Cl. D54—13.
Greene, Nat, to American Concrete Products Co. Electrical junction box. 214,449, 6–17–69, Cl. D26—5.
Greenfield, Gary R., to Groomaid International, Ltd. Toothbrush. 214,864, 8–12–69, Cl. D4—18.
Greenlee, Hugh T.: *See*—
Miller, Wesley W., Greenlee, Hagerty, and Litschi. 216,377.
Greenlee, Hugh T., to Ashtabula Bow Socket Co. Cycle pedal tread block. 214,115, 5–6–69, Cl. D90—14.
Greenlee, Hugh T., to Ashtabula Bow Socket Co. Cycle pedal tread block. 214,116, 5–6–69, Cl. D90—14.
Greenlee, Hugh T., to Ashtabula Bow Socket Co. Cycle pedal tread block. 214,117, 5–6–69, Cl. D90—14.
Greenlee, Hugh T., to Ashtabula Bow Socket Co. Cycle pedal tread block. 215,988, 11–11–69, Cl. D90—14.
Greenlee, Hugh T., to Ashtabula Bow Socket Co. Cycle pedal tread block. 215,989, 11–11–69, Cl. D90—14.
Greer, Larry J. Roller board. 214,177, 5–20–69, Cl. D34—15.
Greer, Larry L. Roller board. 214,575, 7–1–69, Cl. D34—15.
Gregory Industries, Inc.: *See*—
Ehrlich, Don E. 213,202.
Wieland, Howard N., and Spisak. 213,200.
Gretz, Charles R. Removable top container adapted for mounting on a road vehicle. 214,666, 7–15–69, Cl. D14—27.
Gribbens, William J., to Plastics, Inc. Drinking tumbler. 216,142, 11–25–69, Cl. D36—8.
Griebel, Walter: *See*—
Kull, Eberhard, Wetzke, Griebel, Breite, and Wiesmair. 216,407.
Griffin, Richard J., to Dayco Corp. Laboratory rack. 213,366, 2–25–69, Cl. D16—1.
Griffith, James L., to H. H. Robertson Co. Feature strip. 214,034, 5–6–69, Cl. D13—6.
Griffith, Thomas B., to American Pacing Equipment. Wheel. 215,652, 10–21–69, Cl. D14—30.
Grimm, John E.: *See*—
Wise, Lewis A., and Grimm. 215,982.
Griswold, Donald G.: *See*—
Townsend, Richard. 213,104.
Grodin, Adam J., to Eisele & Co., Inc. Thermometer holder. 213,398, 2–25–69, Cl. D52—7.
Grogan, George C., C. H. Green, R. M. Beattie, D. A. Miller, and R. T. Johnston, to Northrop Corp. Drone aircraft. 215,212, 9–16–69, Cl. D22—17.
Grohoski, Edward G., R. D. Morton, and G. C. Willard, to The Hartford Special Machinery Co. Thread rolling machine. 214,694, 7–15–69, Cl. D55—1.
Groomaid International, Ltd.: *See*—
Greenfield, Gary R. 214,864.
Grooms, Percy E. Combined portable crib and compartmented storage container. 214,124, 5–13–69, Cl. D5—5.
Gross, Robert I., to Eagle-Picher Industries, Inc. Control console for illumination device. 213,372, 2–25–69, Cl. D26—13.
Grossman, Ralph E. Dental handpiece. 214,053, 5–6–69, Cl. D24—1.
Grosso, Raymond A., to Minnesota Mining and Mfg. Co. Camera. 216,162, 11–25–69, Cl. D61—1.
Groth, Glen L. Lockable display rack for floor cleaning equipment and the like. 213,151, 1–7–69, Cl. D80—10.
Grotti, Renato, and A. La Viola. Paper fastener or the like. 213,651, 3–25–69, Cl. D74—1.
Grove, John L., to Grove Mfg. Co. Self-propelled truck crane. 214,035, 5–6–69, Cl. D14—3.
Grove, John L., to Grove Mfg. Co. Crane boom support. 214,557, 7–1–69, Cl. D14—3.
Grove Mfg. Co.: *See*—
Grove, John L. 214,035.
Grove, John L. 214,557.
Stevens, Benjamin A. 214,889.
Grover Musical Products, Inc.: *See*—
Dreyer, Leonard. 216,049.
Grown, Warren. Oleomargarine spreader for an ear of corn. 214,808, 7–29–69, Cl. D44—29.
Gruenhut, Joseph H.: *See*—
Jones, Charles E., and Gruenhut. 213,228.
Grundhauser, Frank J.: *See*—
Dyke, Walter P., and Grundhauser. 215,631.
Grupp, Walter D., to Elba Systems Corp. Film cartridge. 216,225, 12–2–69, Cl. D61—1.
Gruver, Floyd O., Jr., and W. J. Marsh, to The Coleman Co. Portable gas stove case. 216,233, 12–2–69, Cl. D81—10.
Guajardo, Ralph. Collapsible sun shade cover or the like. 213,536, 3–11–69, Cl. D88—3.
Guaraldi, George L.: *See*—
Ball, Lindsay M., and Guaraldi. 215,465.
Guardian Light Co.: *See*—
Vesely, Donald V., and Dalpiaz. 214,944.
Velely, Donald V., and Dalpiaz. 214,945.
Vesely, Donald V., and Kaiser. 213,519.
Vesely, Donald V., and Kaiser. 213,520.
Vesely, Donald V., and Kaiser. 213,521.
Gugliotta, Agazio S.: *See*—
Jacobs, Karel, Gugliotta, and Bradley. 216,314.
Jacobs, Karel, Gugliotta, Bradley, and Meng. 215,601.
Jacobs, Karel, Gugliotta, Bradley, Wallace, and Mallon. 215,302.
Guillon, Jacques S. Chair. 215,929, 11–11–69, Cl. D15—1.
Gujer, Henry, to Metallwaren AG Birrwil. Pocket lighter. 216,328, 12–16–69, Cl. D48—27.
Gulliford, Tom O., and G. W. Bicknell, to The Worden Co. Carrel. 214,921, 8–12–69, Cl. D33—7.
Gulliford, Tom O., and G. W. Bicknell, to The Worden Co. Viewer. 214,957, 8–12–69, Cl. D61—1.
Gulotta, Gerald, to Block China Co. Cup. 213,458, 3–4–69, Cl. D44—9.
Gulotta, Gerald, to Block China Co. Saucer. 213,459, 3–4–69, Cl. D44—9.
Gulotta, Gerald, to Block China Co. Plate. 213,461, 3–4–69, Cl. D44—15.
Gulotta, Gerald, to Block China Co. Pitcher. 214,392, 6–10–69, Cl. D44—21.
Gulotta, Gerald, to Block China Co. Casserole. 215,469, 9–30–69, Cl. D44—15.
Gulotta, Gerald, to Block China Co. Sugar bowl. 215,470, 9–30–69, Cl. D44—15.
Gulotta, Gerald, to Block China Co. Coffee pot. 215,471, 9–30–69, Cl. D44—26.
Guodace, Frank K. Spoon or similar article of flatware. 213,912, 4–22–69, Cl. D54—12.
Gurr, Robert H., to Wed Enterprises Inc. Rocket amusement ride car. 218,888, 4–22–69, Cl. D34—5.
Gurr, Robert H., to Wed Enterprises, Inc. Amusement ride auto. 215,313, 9–23–69, Cl. D34—5.
Gurtner, Lucien, to Charles Tissot & Co. Watch band. 214,809, 7–29–69, Cl. D45—4.
Guth, Gordon T.: *See*—
Ernest, Robert O., and Guth. 214,822.
Seymour, Ronald L., and Guth. 214,823.
Gutowski, Wojciech S., F. J. Kuchta, and R. F. West, to The Stanley Works. Measuring tool for carpentry and the like. 213,643, 3–25–69, Cl. D52—6.
Gutsche, Henry W., D. M. Harris, and R. J. Walsh, to Monsanto Co. Wafer tray. 215,270, 9–23–69, Cl. D9—187.
Gutschmidt, Earl E. and E. J. Concrete form stake. 216,073, 11–25–69, Cl. D8—45.
Gutschmidt, Edward J.: *See*—
Gutschmidt, Earl E. and E. J. 216,073.
H & G Industries, Inc.: *See*—
Kaplan, Ronald M. 213,760.
H & P Mfg. Corp.: *See*—
Pudelko, Frank J. and V. M., and L. T. and L. L. Hinn. 215,179.
HSS Corp.: *See*—
Singer, Hans S. 215,870.
Haaland, John E., and C. P. Graf. Base for a cigarette lighter. 216,272, 12–9–69, Cl. D48—27.
Haas, Howard G., and J. J. Corrigan, to Sealy Inc. Mattress core. 215,263, 9–23–69, Cl. D5—2.
Habig, Harry R. Antenna. 213,375, 2–25–69, Cl. D26—14.
Hackbarth, Dennis K.: *See*—
Litman, Alan L., and Hackbarth. 215,934.
Hackman, Donald J., J. L. Hillman, and R. L. Legue, to Oceanautic Mfg. and Research Co. Portable tool. 215,407, 9–30–69, Cl. D8—68.
Hadco Products, Inc.: *See*—
Daum, Howard A. 215,961.
Hafner, Karl, to Blessing-Werke KG. Clock. 215,555, 10–7–69, Cl. D42—7.
Hafner, Karl, to Blessing-Werke KG. Clock. 215,556, 10–7–69, Cl. D42—7.
Hagberg, Calvin A.: *See*—
Graff, David F., and Hagberg. 215,513.
Hagelbarger, David W., to Bell Telephone Laboratories, Inc. Telephone dial wheel or similar article. 213,832, 4–15–69, Cl. D26—14.
Hagerty, Charles D.: *See*—
Miller, Wesley W., Greenlee, Hagerty, and Litschi. 216,377.
Hain, Robert W., and R. A. Warn, Sr., to Washington Forge, Inc. Knife box. 213,513, 3–11–69. Cl. D44—29.
Hain, Robert W., and R. A. Warn, Sr., to Washington Forge, Inc. Knife box. 213,514, 3–11–69, Cl. D44—29.
Halaby, Samuel A., Jr., and R. C. Meisenzahl, to Samuel Halaby, Inc. Sprayer for insecticides or the like. 215,437, 9–30–69, Cl. D23—17.
Halaby, Samuel A., Jr., and R. C. Meisenzahl, to Samuel, Inc. Fluid container for insecticide sprayers. 216,309, 12–16–69, Cl. D23—18.
Halaby, Samuel, Inc.: *See*—
Halaby, Samuel A., Jr., and Meisenzahl. 215,437.
Haley Corp.: *See*—
Wolf, Lee. 214,587.
Haley, Dwight L., to Ferro Corp. Combined reflective highway lane divider and road marker. 215,376, 9–23–69, Cl. D72—1.
Hall, George L., and M. H. Mickey. Stool. 213,552, 3–18–69, Cl. D15—8.

Hall, John C., to Productline, Inc. Hand tool for perforating. 215,198, 9–16–69, Cl. D8—98.
Hall, Joseph F. Combined fishing rod holder and signalling device. 213,778, 4–8–69, Cl. D22—22.
Hall, Nicholas. Poker chip dispensing device. 215,315, 9–23–69, Cl. D34—13.
Hall, Robert M. Surgical drill. 215,678, 10–21–69, Cl. D83—12.
Hall, Thomas A. Toy airplane. 213,988, 4–29–69, Cl. D34—15.
Hallahan, Daniel T., to Sanjo Utility Mfg. Co. Inc. Rolling support for garment hangers. 214,107, 5–6–69, Cl. D80—8.
Hallock, Edward C. Grille. 213,847, 4–15–69, Cl. D54—2.
Hames, Lester D. Clock. 216,406, 12–30–69, Cl. D42—7.
Hamilton, Clarence O., II, R. C. Winters, and R. R. Spilman, to Hamilton Cosco, Inc. Adjustable infant's chair. 213,870, 4–22–69, Cl. D15—1.
Hamilton, Cosco, Inc.: *See*—
Hamilton, Clarence O., II, Winters, and Spilman. 213,870.
Hamilton, John J. 213,131.
Hamilton, John J., and Schroer. 215,858.
Leistikow, Gerard K. 213,683.
Leistikow, Gerard K. 213,872.
Moore, Donald L., Fricke, and Spilman. 214,267.
Moore, Donald L., Fricke, Tucker, and Spilman. 214,834.
Hamilton, Fred. Extension to a bow sight. 214,895, 8–12–69, Cl. D22—5.
Hamilton Humidity, Inc.: *See*—
Shaffer, Burton, and Burnstein. 215,657.
Hamilton, John J., to Hamilton Cosco, Inc. Laundry sorter. 213,131, 1–7–69, Cl. D49—8.2.
Hamilton, John J., and C. E. Schroer, to Hamilton Cosco, Inc. Table. 215,858, 11–4–69, Cl. D33—14.
Hamilton, Norris A. Support for a log or the like. 216,261, 12–9–69, Cl. D23—98.
Hamin, Irwin B., to McGrath-Hamin, Inc. Ring. 216,220, 12–2–69, Cl. D45—10.
Hamlin Products, Inc.: *See*—
Walklet, Mercer D. 216,241.
Walklet, Mercer D. 216,243.
Walklet, Mercer D. 216,244.
Hammel, Clifford E., to Peerless Enamel Products Co. Grid for cooking range. 215,903, 11–4–69, Cl. D81—25.
Hammon, George L., to Chemetron Corp. Adjustable gas pressure regulator. 215,001, 8–19–69, Cl. D23—21.
Hammond, Charles A. Tire. 214,412, 6–10–69, Cl. D90—20.
Hammond, Philip S.: *See*—
Cvengros, David V., and Hammond. 216,354.
Hammond, Robert G.: *See*—
Lavin, Benjamin B., Dixson, and Hammond. 214,471.
Haney, Joyce E., to Cannon Mills Co. Textile fabric. 216,416, 12–30–69, Cl. D92—1.
Hanhart, Wilhelm S. Combined stop watch and carrying case therefor. 214,579, 7–1–69, Cl. D42—8.
Hankscraft Co.: *See*—
Anderson, Douglas W. 213,443.
Luedtke, Eugene R. 213,560.
Luedtke, Eugene R. 213,824.
Hansen, David E. Movie camera or the like. 214,345, 6–3–69, Cl. D61—1.
Hansen, David E., to Eastman Kodak Co. Film strip adapter or similar article. 214,402, 6–10–69, Cl. D61—1.
Hansen, Fritz B.: *See*—
Moore, James F., and Hansen. 213,906.
Hansen, George E.: *See*—
Gaglio, Peter A., Hansen, and Krueger. 215,156.
Hansom, Bernard S., to Wilkinson Sword Ltd. Combined razor blade and mount. 216,070. 11–18–69, Cl. D95—3.
Hanson Scale Co.: *See*—
Mox, Dana W. 213.588.
Hanson, Stanley E. Illuminable mirror. 216,414, 12–30–69, Cl. D86—10.
Hanson, Thomas E., and P. D. Younge, to Proctor-Silex Inc. Power unit for a blender or the like. 215,132, 9–2–69, Cl. D89—1.
Hanson, Thomas E., and J. R. Lindsay, to Proctor-Silex Inc. Power unit for a blender or the like. 215,680, 10–21–69, Cl. D89—1.
Hanson. Wallace A., Jr.: *See*—
Smith, William R., and Hanson. 213,125.
Smith, William R., and Hanson. 213,328.
Harada, Takayuki. Toy trackway. 215,741, 10–28–69, Cl. D34—15.
Harbeck, Charles L., and R. N. Sellon, to Stolper Industries, Inc. Combined vehicle cab and roll bar. 214,040, 5–6–69, Cl. D14—27.
Hardwick Stove Co.: *See*—
Berlik, Leroy J., and Feldkircher. 215,251.
Hardy, Christopher C. Joint finisher. 215,808, 11–4–69, Cl. D8—45.
Hardy, George: *See*—
Ackerman, Martin S., and Hardy. 214,100.
Ackerman, Martin S., and Hardy. 215,891.
Hardy, W. Brent. Combination sound receiver, amplifier, and speaker system. 213.967, 4–29–69, Cl. D26—14.
Harkness, Joseph R.: *See*—
Lechtenberg, Leo J., and Harkness. 213,476.
Harkness, Joseph R., to Briggs & Stratton Corp. Portable combination internal combustion engine and electric starter. 215,769. 10–28–69. Cl. D77—1.
Harman-Kardon, Inc.: *See*—
Levow, Lawrence. 215,007.
Levow, Lawrence. 215,725.
Levow, Lawrence. 215,496.
Harmsen, Johan L. Conductor rail support. 215,141, 9–9–69, Cl. D8—235.
Harper, Irving, to Wilkinson Sword Ltd. Holder for a combined safety razor and mount. 215,995, 11–11–69, Cl. D95—3.
Harris, Darrell M.: *See*—
Gutsche, Henry W., Harris, and Walsh. 215,270.
Harris, Shurley H., to Sunbeam Corp. Clock. 214,181, 5–20–69, Cl. D42—7.
Harrop, Clifford B., and D. W. Walker, to International Harvester Co. Track wheel. 213,362, 2–25–69, Cl. D14—30.
Hart, Alexander W., and D. D. Acton, to Anchor Hocking Glass Corp. Combined jar and closure. 214,159, 5–20–69, Cl. D9—164.
Hart, Raymond V., to San Angelo Die Casting & Mfg. Co., Inc. Cigarette extinguisher. 214,298, 5–27–69, Cl. D85—2.
Hartford Special Machinery Co., The: *See*—
Grohoski, Edward G., Morton, and Willard. 214,694.
Hartman, Cedric J. Lamp. 214,187, 5–20–69, Cl. D48—20.
Hartman Products: *See*—
Dorfman, Melville. 213,936.
Harvey Aluminum (Incorporated): *See*—
Frankel, John L., and Kelsey. 213,441.
Harwood, Charles C., and R. J. Wilkinson, to The Quaker Oats Co. Expanded cereal food product. 215,077, 9–2–69, Cl. D1—13.
Haryett, L. J.: *See*—
Driedger, Diedrich. 214,535.
Hasbro Industries, Inc.: *See*—
Carignan, Robert L. 216,138.
Hashimoto, Leonard N. China display stand. 214,541, 6–24–69, Cl. D80—90.
Haskin, Donald F., and M. Becker. Vehicle. 213,313, 2–18–69, Cl. D14—3.
Haskin, Donald F., and M. Becker. Air cleaner for engines or the like. 214,052, 5–6–69, Cl. D23—149.
Haskin, Donald F., and M. Becker. Air cleaner for engines or the like. 215,053, 8–26–69, Cl. D23—149.
Haskin, Donald F., and M. Becker, to Resort Products, Inc. Amphibious seating ring. 215,973, 11–11–69, Cl. D71—1.
Haskins, Jerry D., to Chamlin-Haskins Inc. Bolt action for a rifle. 214,441. 6–17–69. Cl. D22—7.
Hasler, William S., to Singer-Cobble Ltd. Tufting machine. 216,069, 11–18–69, Cl. D92—15.
Hastings, John A. Valve. 213,192, 1–14–69, Cl. D23—19.
Hauser, Hans. to The J. B. Foote Foundry Co. Snow vehicle. 214,492. 6–24–69. Cl. D14—24.
Hauser, Stephen G., to Direct Markets, Ltd. Fire detection alarm cover. 216,229, 12–2–69, Cl. D72—1.
Hauser, Stephen G., to Direct Markets, Ltd. Housing for fire detector. 216,231, 12–2–69, Cl. D72—1.
Hauser, William G.: *See*—
Milan, Henry J., and Hauser. 213,924.
Hawkinson, Paul E., Co.: *See*—
Hawkinson, Raymond P. 213,752.
Hawkinson. Raymond P. 214.230.
Hawkinson, Raymond P., to Paul E. Hawkinson Co. Tire. 213,752, 4–1–69, Cl. D90—20.
Hawkinson, Raymond P., to Paul E. Hawkinson Co. Tire. 214.230. 5–20–69. Cl. D90—20.
Hawkinson, Ronald E. Combined carton holder and pouring stand. 214,750, 7–22–69, Cl. D44—21.
Hayakawa Denki Kogyo Kabushiki Kaisha: *See*—
Yamagishi, Teruo. 216,284.
Hayakawa Electric Co., Ltd.: *See*—
Yamagishi, Teruo. 216,284.
Haynes, Julian R., to Sunbeam Corp. Massager. 214,221, 5–20–69, Cl. D83—1.
Haynes, Julian R., to Sunbeam Corp. Massager. 214,222, 5–20–69, Cl. D83—1.
Hays, John V.: *See*—
Stevens, Jack R., and Hays. 215,103.
Hayward, Walter E., Co., Inc.: *See*—
Wilkson. Thomas L. 215,613.
Hazard, Robert E., to Polytop Corp. Dispensing closure. 214,721, 7–22–69, Cl. D9—275.
Hazard, Robert E., to Polytop Corp. Dispensing closure. 214,722, 7–22–69, Cl. D9—275.
Hazard, Robert E., to Polytop Corp. Dispensing closure. 214,723. 7–22–69, Cl. D9—275.
Hazard, Robert E., to Polytop Corp. Dispensing closure. 214,882, 8–12–69, Cl. D9—275.
Hazard, Robert E., to Polytop Corp. Dispensing closure. 214,883, 8–12–69, Cl. D9—275.
Hazard, Robert E., to Polytop Corp. Dispensing closure. 214,884, 8–12–69, Cl. D9—279.
Hazard, Robert E., to Polytop Corp. Dispensing container. 215,409, 9–30–69, Cl. D9—9.
Hazzard, Harry I.: *See*—
Burkett, Wilford B., Carsello, and Hazzard. 213,939.
Head Ski Co., Inc.: *See*—
Howe, John G. 216,032.
Heater, Charles P. Conveyor belt vice grip for the connection of conveyor belting. 215,079, 9–2–69, Cl. D8—52.
Heath Co.: *See*—
Sizer, Stuart W., and Deschamps. 216,393.
Heck, Edward E., to Republic Molding Corp. Combined waste receptacle and dispenser for disposable liners. 215,617, 10–14–69, Cl. D49—35.
Hedaya and Co., Inc.: *See*—
Hedaya, David. 214,769.

Hedaya, David, to Hedaya and Co., Inc. Display stand for luggage or the like. 214,769, 7–22–69, Cl. D80—10.
Hedgewick, Peter, to Reflex Corp. of Canada Ltd. Roadway reflector. 214,538, 6–24–69, Cl. D72—1.
Hedgewick, Peter, to Reflex Corp. of Canada Ltd. Roadway marker. 215,625, 10–14–69, Cl. D72—1.
Hedgewick, Peter, and W. A. Stanley, to Reflex Corp. of Canada Ltd. Combined automobile and reflectors. 214,295, 5–27–69, Cl. D72—1.
Hedu, Jon, to The W. E. Bassett Co. Combination tool for golfers. 215,668, 10–21–69, Cl. D34—5.
Heidtke, Frederich C.: *See*—
Walsh, Patrick J., and Heidtke. 215,272.
Heier, William, 50% to W. Heier, H. Schwartz, and Har-Wil Corp., and 50% to Automatic Retailers of America. Beverage vending machine or the like. 213,724, 4–1–69, Cl. D52—3.
Heiler, Paul S.: *See*—
Kalvitis, Robert E., and Heiler. 216,123.
Heininger, Oskar, to Sylvania Electric Products, Inc. Housing for a photomultiplier or similar device. 215,851, 11–4–69, Cl. D26—14.
Heininger, Oskar, to Sylvania Electric Products Inc. Laser or similar article. 215,852, 11–4–69, Cl. D26—14.
Heinlein, Herbert T.: *See*—
Bargetzi, Fred H., Heinlein, and Loesch. 214,629.
Heintze, Walter T., to Schenley Industries, Inc. Combined decanter and closure therefor. 214,428, 6–17–69, Cl. D9—145.
Heintze, Walter T., to Schenley Industries, Inc. Decanter. 215,086, 9–2–69, Cl. D9—143.
Heintze, Walter T., to Schenley Industries, Inc. Combined decanter and closure therefor. 215,819, 11–4–69, Cl. D9—83.
Heldt, Michel P., to Vinco Corp. Spline lapping machine. 214,095, 5–6–69, Cl. D55—1.
Helgesson, Ulf R.: *See*—
Smith J. Perry, and Helgesson. 214,793.
Hellström, Goran M.: *See*—
Monö, Rune G., and Hellström. 216,299.
Helma, Dennis E. Skylight. 213,444, 3–4–69, Cl. D23—153.
Hemsoth, Roy A. Golf putter head. 216,137, 11–25–69, Cl. D34—5.
Hendrick, David L. Frozen confection. 215,917, 11–11–69, Cl. D1—22.
Hendricks, Donald B.: *See*—
Mango, Joseph R., Hendricks, and Collins. 216,167.
Henebry, John P., and E. E. Stineback, to North American Aluminum Corp. Stadium bench. 214,042, 5–6–69, Cl. D15—11.
Henebry, John P., and E. E. Stineback, to North American Aluminum Corp. Stadium bench. 214,440, 6–17–69, Cl. D15—11.
Henline, Terry R., to General Motors Corp. Motor vehicle lamp lens. 215,482, 9–30–69, Cl. D48—32.
Henline, Terry R., to General Motors Corp. Motor vehicle lamp lens. 215,483, 9–30–69, Cl. D48—32.
Henline, Terry R., to General Motors Corp. Motor vehicle lamp lens. 215,485, 9–30–69, Cl. D48—32.
Henline, Terry R., to General Motors Corp. Motor vehicle lamp lens. 215,487, 9–30–69, Cl. D48—32.
Henreid, William J. Bird house. 215,855, 11–4–69, Cl. D30—3.
Henrich, Leonard N., to Coro, Inc. Jewelry display stand. 215,190, 9–9–69, Cl. D80—9.
Henry's Drive In, Inc.: *See*—
Rossi, Anthony M. 215,147.
Henshaw, John F.: *See*—
Brunetti, Lawrence G., Gilmore, Goodrich, J. F. and V. H. Henshaw, and Richards. 215,005.
Henshaw, John F. and V. H., to Keuffel & Esser Co. Stereoplotter. 215,968, 11–11–69, Cl. D57—7.
Henshaw, Victor H.: *See*—
Brunetti, Lawrence G., Gilmore, Goodrich, J. F. and V. H. Henshaw, and Richards. 215,005.
Henshaw, John F. and V. H. 215,968.
Herald Corp.: *See*—
Cleland, Charles C. 214,417.
Herbert, David C.: *See*—
Selinger, Norman R., and Herbert. 213,570.
Herbst, Walter B., and R. M. La Zar, to Sunbeam Corp. Clock. 213,896, 4–22–69, Cl. D42—7.
Herlin, Andre, to Union des Cooperatives Viticoles de l'Aamagnac (U.C.V.A.). Jar. 213,765, 4–8–69, Cl. D9—58.
Hermalin, Harry J., ⅓ each to A. T. Atwaters, and J. A. Judie. Artist's easel. 213,376, 2–25–69, Cl. D29—20.
Hermann, Thomas L., to The National Cash Register Co. Cash register or similar article. 213,352, 2–25–69, Cl. D52—4.
Herndon, Larry F., Jr.: *See*—
Kelso, Raí B., and Herndon. 215,959.
Hero, Franz: *See*—
Muller, Walter, Hero, and Odermatt. 214,437.
Herz, Ralph E.: *See*—
Cohen, Milton H. 214,366.
Hess, Elmer J., to Kwik-File, Inc. Combined desk and file rack unit. 216,203, 12–2–69, Cl. D33—7.
Hess, Elmer J., to Kwik-File, Inc. Desk. 216,204, 12–2–69, Cl. D33—7.
Hess, James E.: *See*—
Fitzpatrick, John J., Hess, and Wilton. 215,230.
Fitzpatrick, John J., Hess, and Wilton. 215,231.
Fitzpatrick, John J., Hess, and Wilton. 215,232.
Fitzpatrick, John J., Hess, and Wilton. 215,233.
Hetu, Raymond L. Telescopable log holder. 215,439, 9–30–69, Cl. D23—98.
Hewlett-Packard Co.: *See*—
Ozaki, Roy A. 215,158.
Hexcel Corp.: *See*—
Merritt, James A., and Wedin. 213,134.
Hi-Shear Corp.: *See*—
Berkl, Josef U., and Jenner. 213,913.
Hiatt, Walter R., and P. R. Jones, to Bates Industries, Inc. Motorcycle windshield. 214,007, 4–29–69, Cl. D90—1.
Hibben, Thomas M. Fountain. 213,692, 4–1–69, Cl. D23—13.
Hibben, Thomas M. Fountain. 213,693, 4–1–69, Cl. D23—13.
Hicks, David N. Carpet or similar article. 213,660, 3–25–69, Cl. D92—4.
Hicks, David N. Carpet or similar article. 213,661, 3–25–69, Cl. D92—4.
Hicks, David N. Carpet or similar article. 213,662, 3–25–69, Cl. D92—4.
Hicks, David N. Carpet or similar article. 213,663, 3–25–69, Cl. D92—4.
Hicks, David N. Carpet or similar article. 214,413, 6–10–69, Cl. D92—4.
Hicks, David N. Carpet or similar article. 215,193, 9–9–69, Cl. D92—4.
Hicks, David N. Carpet or similar article. 215,635, 10–14–69, Cl. D92—4.
Hicks, David N. Carpet or similar article. 215,787, 10–28–69, Cl. D92—4.
Hicks, Stewart. Hat. 214,015, 5–6–69, Cl. D2—248.
Hicks, Stewart. Hat. 215,078, 9–2–69, Cl. D2—248.
Higgins, Eldon C., to Lefebure Corp. Bond box. 213,143, 1–7–69, Cl. D69—1.
Hildebrand, Edward, Jr., to Chicago Display Co. Cupcake container. 215,271, 9–23–69, Cl. D9—189.
Hill, Delmer J. Mobile food vending unit. 214,314, 6–3–69, Cl. D14—3.
Hill, Delmer J. Camper. 215,152, 9–9–69, Cl. D14—3.
Hill, Delmer J. Travel trailer. 215,153, 9–9–69, Cl. D14—3.
Hill, Harry W. Holder for towels, handled articles and the like. 213,201, 1–14–69, Cl. D33—17.
Hill, John E. and Joseph E. Kangaroo figure for playground apparatus. 215,058, 8–26–69, Cl. D34—5.
Hill, John E. and Joseph E. Turtle figure for playground apparatus. 215,059. 8–26–69, Cl. D34—5.
Hill, John E. and Joseph E. Ostrich figure for playground apparatus. 215,102, 9–2–69, Cl. D34—5.
Hill, John E. and Joseph E. Animal figure for playground apparatus. 215,104, 9–2–69, Cl. D34—5.
Hill, Joseph E.: *See*—
Hill, John E. and Joseph E. 215,058.
Hill, John E. and Joseph E. 215,059.
Hill, John E. and Joseph E. 215,102.
Hill, John E. and Joseph E. 215,104.
Hill, Loran R., to American Machine & Foundry Co. Snow sled. 214,329, 6–3–69, Cl. D34—15.
Hill, Loran R., to American Machine & Foundry Co. Rocking toy for children. 214,927, 8–12–69, Cl. D34—5.
Hill, Rodney S.: *See*—
Feldmann, Frederick W., and Hill. 215,210.
Hillhouse, Larry W., to Eagle-Picher Industries, Inc. Light for stage and advertising use. 214,190, 5–20–69, Cl. D48—20.
Hillis, Donald A. Note paper dispenser. 214,469, 6–17–69, Cl. D74—1.
Hillis, Donald A. Combined calendar and pencil holder. 214,768, 7–22–69, Cl. D74—5.
Hillman, Jack L.: *See*—
Hackman, Donald J., Hillman, and Legue. 215,407.
Hills Bros. Coffee, Inc.: *See*—
Landor, Walter J. 215,269.
Landor, Walter J. 215,412.
Hills, David G., to Monsanto Co. Bottle. 213,091, 1–7–69, Cl. D9—115.
Hills, David G., to Monsanto Co. Bottle. 214,305, 6–3–69, Cl. D9—100.
Hills, David G., to Monsanto Co. Jug. 214,552, 7–1–69, Cl. D9—51.
Hills, David G., to Monsanto Co. Jug. 215,410, 9–30–69, Cl. D9—39.
Hills, David G., to Monsanto Co. Bottle. 216,248, 12–9–69, Cl. D9—42.
Hillson, William. Boot jack. 214,005, 4–29–69, Cl. D86—10.
Hilzen, Hy. Flood lamp. 214,941, 8–12–69, Cl. D48—20.
Hindenburg, Eugene D., to Holub Industries, Inc. Electrician's tool. 213,848. 4–15–69, Cl. D54—13.
Hindenburg, Eugene D., to Holub Industries, Inc. Electrician's tool. 215,810, 11–4–69, Cl. D8—58.
Hinds, Horace, Jr., to Grace Machinery Corp. Steam gun for use in food preparation equipment. 215,074, 8–26–69, Cl. D81—10.
Hinkle, Charles E.: *See*—
Hinkle, John T. and C. E. 215,076.
Hinkle, John T. and C. E. Key case. 215,076, 8–26–69, Cl. D87—8.
Hinman, Frank, Jr.: *See*—
Cox, Clair E., Hinman, and Harautunelan. 215,387.
Hinn, Leslie L.: *See*—
Pudelko, Frank J. and V. M. Pudelko, and L. T. and L. L. Hinn. 215,179.
Hinn, Lloyd T.: *See*—
Pudelko, Frank J. and V. M. Pudelko, and L. T. and L. L. Hinn. 215,179.

Hirota, Kashichi. Case for beverage bottles or the like. 213,425, 3–4–69, Cl. D9—177.
Hirsch, Mahlon E., to Louis Marx & Co., Inc. Blow gun. 216,308, 12–16–69, Cl. D22—3.
Hirsh, S. A., Mfg. Co.: *See*—
Ferdinand, Irwin J., and Kulbersh. 214,724.
Hitachi, Ltd.: *See*—
Kashiwagi, Tetsuo, Koshido, and Orikasa. 215,366.
Hitachi Maxell, Ltd.: *See*—
Kubo, Kazuhiko, and Kasagi. 215,994.
Hitt, William C.: *See*—
Phillips, George W., Hitt, and Slonneger. 214,197.
Hoadley, William M. Vacuum nozzle for cleaning bucket seats and cars. 215,875, 11–4–69, Cl. D49—18.
Hoberg, Florence L. Combined culinary scraper and sifter. 214,680, 7–15–69, Cl. D44—29.
Hocker, Albert D. Birdhouse. 214,915, 8–12–69, Cl. D30—3.
Hodge, Philip A., to Anson, Inc. Bottle. 213,611, 3–25–69, Cl. D9—54.
Hodges, Ralph R., to Empire Stove Co. Combine gas fired furnace and duct casings therefor. 213,199, 1–14–69, Cl. D23—110.
Hoff, James O., to Berry Mini-"T." Recreational vehicle body or similar article. 215,651, 10–21–69, Cl. D14—3.
Hoff, Thayer J. Dog house. 215,306, 9–23–69, Cl. D30—1.
Hoffenberg, Abe. Finger ring or the like. 214,337, 6–3–69, Cl. D45—10.
Hoffman, Norman E.: *See*—
Eberle, John E., and Hoffman. 214,364.
Hoke, Gilbert J., to Dunlop Tire and Rubber Corp. Tire. 215,394, 9–23–69, Cl. D90—20.
Hoke, Gilbert J., to Dunlop Tire and Rubber Corp. Tire. 215,993, 11–11–69, Cl. D90—20.
Holbrook, Harry W. Platform and steps unit. 214,264, 5–27–69, Cl. D13—7.
Holder, Lorrain A. Tire stud inserting tool. 213,401, 2–25–69, Cl. D54—13.
Holister, Frank, Co., Inc.: *See*—
Laurini, Zane P. 214,418.
Holland, Andrew M.: *See*—
Arato, Paul T., and Holland. 215,951.
Hollingsworth, Elmont E.: *See*—
Gaaeder, Gilbert W., and Hollingsworth. 216,034.
Hollingsworth, James L. Construction horse. 213,254, 1–21–69, Cl. D54—1.
Holloway, Bruce E., to Fruit Orchard, Inc. Combined product display and order placement cabinet. 213,741, 4–1–69, Cl. D80—11.
Holm, Bernt F. V., to K. S. I. Svenningson. Grass mower. 215,013, 8–19–69, Cl. D40—1.
Holm, Carl E., to FMC Corp. Irrigation valve. 215,438, 9–30–69, Cl. D23—19.
Holman, Harrison R.: *See*—
Bixby, Thomas G., and Holman. 213,589.
Holman, Howard B. and W. M. Shipping container for human remains. 216,116, 11–25–69, Cl. D19—1.
Holman, William M.: *See*—
Holman, Howard B. and W. M. 216,116.
Holmes, Brian H., to The Dunlop Co. Ltd. Tire. 216,065, 11–18–69, Cl. D90—20.
Holmes, Frank A., and L. McCain, to Ajax Hardware Mfg. Corp. Knob. 214,867, 8–12–69, Cl. D8—145.
Holmes, Frank A., and L. McCain, to Ajax Hardware Mfg. Corp. Drawer pull. 214,868, 8–12–69, Cl. D8—159.
Holmes, Frank A., and L. McCain, to Ajax Hardware Mfg. Corp. Pendant-type drawer pull. 214,869, 8–12–69, Cl. D8—169.
Holmes, Frank A., and L. McCain, to Ajax Hardware Mfg. Corp. Molding for escutcheon or similar article. 215,538, 10–7–69, Cl. D8—179.
Holmes, Frank A., and L. McCain, to Ajax Hardware Mfg. Corp. Backplate. 215,815, 11–4–69, Cl. D8—179.
Holmes, Frank A., and L. McCain, to Ajax Hardware Mfg. Corp. Hinge. 215,816, 11–4–69, Cl. D8—198.
Holmes, Frank A., and L. McCain, to Ajax Hardware Mfg. Corp. Door decoration. 216,077, 11–25–69, Cl. D8—179.
Holophane Co., Inc.: *See*—
Pennock, Robert L., Jr., Monson, and Wildgen. 216,378.
Wince, Vearl S. 215,339.
Wince, Vearl S. 215,340.
Holt, Gordon W., Jr., to Wham-O Mfg. Co. Foam bubble blowing toy. 214,387, 6–10–69, Cl. D34—15.
Holten, Herbert A.: *See*—
Wolfe, Walter W., and Holten. 213,829.
Holub Industries, Inc.: *See*—
Hindenburg, Eugene D. 213,848.
Hindenburg, Eugene D. 215,810.
Honeywell, Inc.: *See*—
Bieger, Walter I. 213,800.
Dietrich, Michele, and Godley. 216,264.
Monson, Wallace A. 213,336.
Monson, Wallace A. 213,798.
Monson, Wallace A. 213,909.
Monson, Wallace A. 214,213.
Monson, Wallace A. 214,214.
Monson, Wallace A. 214,952.
Stahel, Alvin J. 214,202.
Stahel, Alwin J. 214,764.
Hood, Christopher J., to Tri-Ang Toys Ltd. Pedal car. 215,317, 9–23–69, Cl. D34—15.
Hood, Jesse C.: *See*—
McCreary, Edward W., Tindall, and Hood. 215,540.
Hood, Robert J., to Eastern Tool Co., Inc. Cutting tool. 216,074, 11–25–69, Cl. D8—98.
Hooton, Robert P. Grille. 215,581, 10–14–69. Cl. D13—1.
Hooton, Robert P. Screen. 215,583, 10–14–69, Cl. D13—1.
Hooton, Robert P. Grille. 215,588, 10–14–69, Cl. D13—1.
Hooton, Robert P. Grille. 215,589, 10–14–69, Cl. D13—1.
Hooton, Robert P. Grille. 215,590, 10–14–69, Cl. D13—1.
Hoover Ball and Bearing Co.: *See*—
Platte, Richard L. 213,821.
Hoover Co., The: *See*—
Gantz, Carroll M. 214,397.
Gantz, Carroll M., Hose, and Sestak. 214,407.
Gantz, Carroll M., Hose, and Sestak. 215,489.
Gantz, Carroll M., Sestak, and Hose. 213,132.
Sestak, Joseph T. 215,488.
Hoover, Gloria J. Cookie. 213,490, 3–11–69, Cl. D1—1.
Hopcraft, Richard, to Imperial Knife Associated Companies, Inc. Sandwich spreader or similar article. 213,388, 2–25–69, D44—29.
Hopkins, Kenneth A., and G. A. Connor, to Burroughs Corp. Computer or the like. 213,921, 4–22–69, Cl. D64—11.
Horgan, William J., Jr.: *See*—
Blum, Louis, and Horgan. 213,097.
Blum, Louis, and Horgan. 214,433.
Horie, Yukio, to Dai Nihon Bungu Kabushiki Kaisha (also trading as The Japan Stationery Co., Ltd.). Mechanical pencil or the like. 215,768, 10–28–69, Cl. D74—24.
Horii, Koji, to Horii Toshado Kabushiki Kaisha. Flat duplicator. 216,413, 12–30–69, Cl. D64—11.
Horii Toshado Kabushiki Kaisha: *See*—
Horii, Koji. 216,413.
Horikoshi, Ichiro. Coin operated locker. 214,141, 5–13–69, Cl. D69—1.
Hormann, Aiko M. Lady's shoes. 214,154, 5–20–69, Cl. D2—302.
Horn, William E. Dental wedge. 213,780, 4–8–69, Cl. D24—1.
Horne, Willard R.: *See*—
Campbell, John B., and Horne. 214,421.
Horowitz, Sam, to Equipment Mfg. Co. Building. 215,273, 9–23–69, Cl. D13—1.
Horton, George L., Jr., and M. R. Weitzman, to Corning Glass Works. Plate or similar article. 213,213, 1–14–69, Cl. D44—15.
Hosbro Industries, Inc.: *See*—
Lucey, Marilyn. 216,195.
Hose, Robert H.: *See*—
Gantz, Carroll M., Hose, and Sestak. 214,407.
Gantz, Carroll M., Hose, and Sestak. 215,489.
Gantz, Carroll M., Sestak, and Hose. 213,132.
Hotchkiss Instruments, Inc.: *See*—
Hotchkiss, John E. 215,905.
Hotchkiss, John E. 216,234.
Hotchkiss, John E., to Hotchkiss Instruments, Inc. Endoscope. 215,905, 11–4–69, Cl. D83—12.
Hotchkiss, John E., to Hotchkiss Instruments, Inc. Endoscope. 216,234, 12–2–69, Cl. D83—12.
Houghton, Barbara C. and D. D. Top toy. 215,553, 10–7–69. Cl. D34—15.
Houghton, David D.: *See*—
Houghton, Barbara C. and D. D. 215,553.
Houlahen, Neal W. Cigarette holding device attachable to cans. 214,818, 7–29–69, Cl. D85—2.
Howard, Howard S. Lantern-type insect trap. 214,174, 5–20–69, Cl. D22—19.
Howard, Sol, and R. Schaaf, to Mil-An Mfg. Corp. Bag for a vacuum cleaner. 213,586, 3–18–69. Cl. D49—17.1.
Howe, John G., to Head Ski Co., Inc. Ski tip protector. 216,032, 11–18–69, Cl. D34—14.
Howell, George E., to Reflex Corp. of Canada Ltd. Combined reflector and lens. 213,474, 3–4–69, Cl. D72—1.
Howell, George E., to Reflex Corp. of Canada Ltd. Reflector for automobiles. 213,475, 3–4–69, Cl. D72—1.
Howell, Lester H. and L. Lipstick liner or the like. 214,608, 7–1–69, Cl. D86—10.
Howell, Lillian: *See*—
Howell, Lester H. and L. 214,608.
Howser, Lewis E., and P. D. Gatlin. Kite string winder. 216,078, 11–25–69, Cl. D8—222.
Hoxie, Orville D., and J. MacDonald, to Bissell, Inc. Blade for a snow shovel. 213,630, 3–25–69. Cl. D39—1.
Hoyle, Walter W. Room thermostat enclosure. 216,373, 12–23–69, Cl. D52—7.
Hoyt, Earl E., to BSR (USA) Ltd. Transparent cover for phonograph record changer. 216,376, 12–23–69, Cl. D56—4.
Hrabrick, William J. Building. 213,678, 4–1–69, Cl. D13—1.
Hsi, William A. Airship. 213,731, 4–1–69, Cl. D71—1.
Hubbard, Elbert M.: *See*—
Lockhart, Andrew P., and Hubbard. 213,173.
Hubbell, Robert F., to Dep Corp. Applicator for hair setting preparation or similar article. 213,481, 3–4–69, Cl. D86—10.
Huber, Norman J., to United States Steel Corp. Container for liquid products. 214,360, 6–10–69, Cl. D9—175.
Huck, Charles M., to Ortho Pharmaceutical Corp. Medical diagnostic test kit or similar article. 214,970, 8–12–69, Cl. D83—1.
Huck, Charles M., to Ortho Pharmaceutical Corp. Medical diagnostic test kit or similar article. 214,971, 8–12–69, Cl. D83—1.
Huck, Charles M., to Estey Corp. Filing drawer unit. 215,307, 9–23–69, Cl. D33—1.
Huck, Charles M. Medical diagnostic test kit or similar article. 216,348, 12–16–69, Cl. D83—1.

Hudson, Harry W., to Twentieth Century Products Corp. Toilet tank ballcock or the like. 214,050, 5–6–69, Cl. D23—40.
Hudson, Robert S., to K-Boose, Inc. Trailer. 216,010, 11–18–69, Cl. D14—8.
Huffman Mfg. Co., The: *See*—
Wolf, Donald A. 215,681.
Wolf, Donald A. 215,682.
Wolf, Donald A. 216,382.
Huggins, Richard L., to Bausch & Lomb Inc. Pair of sun spectacles. 214,138, 5–13–69, Cl. D57—1.
Huggins, Richard L., to Bausch & Lomb, Inc. Pair of eyeglasses. 215,032, 8–19–69, Cl. D57—1.
Huggins, Richard L., to Bausch & Lomb Inc. Design for fashion shield. 215,574, 10–14–69, Cl. D2—234.
Huggins, Richard L., to Bausch & Lomb Inc. Fashion shield. 215,575, 10–14–69, Cl. D2—234.
Huggins, Richard L., to Bausch & Lomb Inc. Fashion shield. 215,576, 10–14–69, Cl. D2—234.
Huggins, Richard L., to Bausch & Lomb Inc. Fashion shield. 215,918, 11–11–69, Cl. D2—234.
Huggins, Richard L., to Bausch & Lomb Inc. Pair of sunglasses. 216,336, 12–16–69, Cl. D57—1.
Huggins, Richard L., and R. L. McCracken, to Bausch & Lomb Inc. Pair of sun glasses. 213,594, 3–18–69, Cl. D57—1.
Hughes, Eric. X-ray apron and glove rack. 214,060, 5–6–69, Cl. D33—3.
Hughes, Johnstone E.: *See*—
Sharpe, Everett E., and Hughes. 214,600.
Hughes, Willard A., and N. A. Kusche, to American Systems, Inc. Portable enclosure for a telephone transmitter and receiver. 216,061, 11–18–69, Cl. D87—1.
Huling, Robert G., to S. H. Leggitt Co. Portable lavatory unit. 215,214, 9–16–69, Cl. D23—58.
Humenay, John C. Fruit picker head. 215,323, 9–23–69, Cl. D40—1.
Humlong, Robert F.: *See*—
Pawsat, Carlton P., and Humlong. 214,477.
Humphrey, Dallas R., and L. W. Johnson, to Kroy Industries Inc. Handheld power tool or the like. 215,998, 11–18–69, Cl. D8—61.
Huncovsky, Lois A. Cosmetics cabinet. 213,380, 2–25–69, Cl. D33—19.
Hunnicutt, Roy. Mixing rotor for viscous liquids. 213,804, 4–8–69, Cl. D55—1.
Hunnicutt, Wayne E., and P. G. Rossbach, to Applied Power Industries, Inc. Load supporting stand. 215,746, 10–28–69, Cl. D41—1.
Hunt, Alvin W. Ashtray. 213,410, 2–25–69, Cl. D85—2.
Hunt-Wesson Foods, Inc.: *See*—
Mineo, Salvatore C., Jr. 213,993.
Hunter, Hal C., J. A. King, and M. E. Moffitt, to Standard Precision Electronics, Inc. Dehorning device. 216,201, 12–2–69, Cl. D30—99.
Hunter Structures Inc.: *See*—
Baker, James W. 215,088.
Hurley, Gladys, d.b.a. Walter F. Hurley Gin: *See*—
Gardner, Robert L. 213,361.
Hurst-Campbell, Inc.: *See*—
Lane, Donald. 214,201.
Husby, Donald E., and E. L. Izzi, to Westinghouse Electric Corp. Floodlight. 213,582, 3–18–69, Cl. D48—20.
Huska, Paul. Electrical Terminal block unit. 215,545, 10–7–69, Cl. D26—1.
Hussey, Robert R., to Ashtabula Bow Socket Co. Cycle pedal tread block. 214,118, 5–6–69, Cl. D90—14.
Hutchins, William L. Automobile deck rake. 216,256, 12–9–69, Cl. D14—27.
Hutchinson, Richard C., to American Computer and Communications Co. Casing for credit card verification system. 215,764, 10–28–69, Cl. D64—11.
Huthsing, Charles K., Jr. Fire extinguisher. 215,654, 10–21–69, Cl. D16—2.
Hutten, Peter, to American Standard, Inc. Toilet bowl exhaust indicating display cover. 213,808, 4–8–69, Cl. D80—1.
Hutzler Mfg. Co.: *See*—
Uldall, Falle. 213,992.
Hylton, Gary K., to Beatty Plastics Co. Brush. 214,237, 5–29–69, Cl. D4—1.
ILC Industries, Inc.: *See*—
Feldmann, Frederick W., and Hill. 215,210.
Fisher, John. 214 547.
Fisher, John. 214,824.
Fisher, John. 215,137.
Redden, Robert J., and Pruett. 213,866.
Iblings, Jackson R.: *See*—
Inatomi, Charles T., and Iblings. 215,096.
Inatomi, Charles T., and Iblings. 215,296.
Ideal Industries, Inc.: *See*—
Oprins, Johannes A. E. 214,446.
Ideal Security Hardware Corp.: *See*—
Wills, George M. 214,715.
Wills, George M. 214,716.
Ideas For Auto and Bike Specialties, Inc.: *See*—
Golden, Harry. 213,487.
Golden, Harry. 213,488.
Golden, Harry. 215,571.
Ieserek, Dante P.: *See*—
Karfo, John, and Ieserek. 214,709.
Ihde, Russell E. Indoor charcoal grill. 214,297, 5–27–69, Cl. D81—10.
Ikegami, Kichizo, H. Tanaka, and S. Fukuda, to Fuji Shashin Film Kabushiki Kaisha. Camera. 213,806, 4–8–69, Cl. D61—1.
Ikor, Inc.: *See*—
Gothing, Gilbert A. 214,960.
Ilco Corp.: *See*—
Patriquin, George P. 214,615.
Illinois Tool Works, Inc.: *See*—
Edwards, Bryant. 214,664.
Edwards, Bryant. 216,186.
Nelson, John F. 213,317.
Nelson, John F. 213,397.
Imperial Arts Corp.: *See*—
Schneider, Irwin. 213,900.
Imperial Chemical Industries, Ltd.: *See*—
Waddington, Richard J., Webb, and Ashworth. 213,670.
Imperial Knife Associated Companies, Inc.: *See*—
Hopcraft, Richard. 213,388.
Inagaki, Shirokichi. Gas lighter. 213,215, 1–14–69, Cl. D48—27.
Inatomi, Charles T., and J. R. Iblings, to The National Cash Register Co. Magnetic disc handler unit. 215,096, 9–2–69, Cl. D26—5.
Inatomi, Charles T., and J. R. Iblings, to The National Cash Register Co. Console for a data processing system. 215,296, 9–23–69, Cl. D26—5.
Inch, William C.: *See*—
Roccaforte, Harry I., Jordan, and Inch. 214,879.
Roccaforte, Harry I., Jordan, and Inch. 215,414.
Industrial Equipment Co.: *See*—
Simpkins, Terry J. 214,770.
In-Flight Devices Corp.: *See*—
Kauffman, Robert A. 214,706.
Infonics, Inc.: *See*—
Cervantes, Felipe. 215,544.
Information Handling Services, Inc.: *See*—
Bodinger, Norman B. 213,572.
Ingebo, Alvin C. Bowling ball pusher device. 213,789, 4–8–69, Cl. D34—5.
Inman, Samuel W., Jr., and L. R. Yow. Press. 215,763, 10–28–69, Cl. D63—1.
Intec Laboratories: *See*—
Crane, Margaret. 215,774.
International Business Machines Corp.: *See*—
Broadus, Jerry N., Faerber, Noel, Stokes, and Union. 215,659.
Cottier, Seton, and Natoli. 213,562.
Jones, Robert V., and Talerico. 213,964.
Jones, William O., Stringer, and Switser. 214,761.
Kapper, Henry, and Sims. 214,704.
Kneale, Collan B., Sylte, Wheeler, and Wilkey. 214,626.
Laybourn, Robert J., and Wilson. 213,783.
Merino, Alfonso W. 214,907.
Noyes, Eliot F. 215,217.
Noyes, Eliot F. 215,938.
Sabella, Edward J. 213,446.
Sheppley, William S., Jr. 213,596.
International Corporated Services: *See*—
Kunkel, Edward J. 214,774.
International Harvester Co.: *See*—
Harrop, Clifford B., and Walker. 213,362.
Koeber, Theodore H., and Skyer. 213,124.
Scarnato, Thomas J., and Gordon. 213,524.
International Playtex Corp.: *See*—
Sachs, Charles M. 213,819.
Salisky, Sallyann Z. 213,666.
International Register Co.: *See*—
Rodriguez, Raoul E. 214,282.
International Silver Co.: *See*—
Gonshorek, Milton. 214,757.
Toffolon, Siro R. 214,689.
Toffolon, Siro R. 214,690.
Toffolon, Siro R. 214,692.
Toffolon, Siro R. 214,693.
International Silver Co., The: *See*—
Toffolon, Siro R. 213,136.
Toffolon, Siro R. 213,137.
International Telephone and Telegraph Corp.: *See*—
Kamp, George B., and Rejniak. 215,300.
Intronics Inc.: *See*—
Becker, Brant W. 214,055.
Isaacson, Anson, to Aurora Plastics Corp. Package for a toy vehicle. 213,770, 4–8–69, Cl. D9—193.
Isley, Emory W. Pry bar. 214,988, 8–19–69, Cl. D8—89.
Israel, Edmund M., to Air Materials Corp. Aircraft seat. 216,391, 12–30–69, Cl. D15—8.
Ivac Corp.: *See*—
Sato, Stephens N. 213,849.
Sato, Stephens N. 215,562.
Izzi, Edmund L.: *See*—
Husby, Donald E., and Izzi. 213,582.
Jablonski, Albert and K. Combined ball throwing and ball receiving toy. 214,744, 7–22–69, Cl. D34—5.
Jablonski, Kathryn: *See*—
Jablonski, Albert and K. 214,744.
Jackes-Evans Mfg. Co.: *See*—
Corkery, Gregory O. 215,510.
Jacketing Specialty: *See*—
Bates, Wesley V. and B. L. 214,047.
Jackson, Albert P. Handgrip for golf club. 215,314, 9–23–69, Cl. D34—5.
Jackson, Patricia M.: *See*—
Glass, Marvin I., and Jackson. 214,257.
Jaclo, Inc.: *See*—
Crist, Buckley. 213,876.

Jacob, Oscar. Decanter or similar article. 214,872, 8–12–69, Cl. D9—73.
Jacob, Oscar. Candy dish or similar article. 215,321, 9–23–69, Cl. D36—2.
Jacobs, Julian R., E. R. Brown, and R. J. Rode, to The Armstrong Rubber Co. Tire. 215,528, 9–30–69, Cl. D90—20.
Jacobs, Julian R., and R. J. Rode, to The Armstrong Rubber Co. Tire. 215,529, 9–30–69, Cl. D90—20.
Jacobs, Julian R., E. R. Brown, and N. G. Amero, to The Armstrong Rubber Co. Tire. 215,530, 9–30–69, Cl. D90—20.
Jacobs, Julian R., E. R. Brown, and N. G. Amero, to The Armstrong Rubber Co. Tire. 215,531, 9–30–69, Cl. D90—20.
Jacobs, Karel, A. S. Gugliotta, A. M. Bradley, C. E. Wallace, and R. C. Mallon, to Vanguard Data Systems, Inc. Magnetic tape transport. 215,302, 9–23–69, Cl. D26—14.
Jacobs, Karel, A. S. Gugliotta, A. M. Bradley, and J. A. Meng, to Vanguard Data Systems, Inc. Display and control panel. 215,601, 10–14–69, Cl. D26—13.
Jacobs, Karel, A. S. Gugliotta, and A. M. Bradley, to Vanguard Data Systems, Inc. Data recorder. 216,314, 12–16–69, Cl. D26—5.
Jacobs Mfg. Co., The: *See*—
McCarthy, Donald J. 213,223.
Jacobs, Peter C., to Jaycopter Corp. Helicopter toy. 213,710, 4–1–69, Cl. D34—15.
Jacobs, Robert V., to Babyline Furniture Corp. Headboard. 215,264, 9–23–69, Cl. D5—4.
Jacobsen, Arne. Ice bucket. 215,866, 11–4–69, Cl. D44—1.
Jacobsen, Arne. Cover for a holloware coffee pot or the like. 216,217, 12–2–69, Cl. D44—26.
Jacobsen, Arne. Spout for a holloware beverage server. 216,218, 12–2–69, Cl. D44—26.
Jacobsen, Arne. Handle for holloware. 216,219, 12–2–69, Cl. D44—29.
Jacobson, Carlton W. Animal ear tag. 215,942, 11–11–69, Cl. D30—43.
Jacoby-Bender, Inc.: *See*—
Bello, Salvatore. 213,632.
Gandelman, Morris D. 214,810.
Jacoby, Sidney J. Combined gas tank and horn trumpet for a fire alarm or the like. 213,235, 1–14–69, Cl. D72—1.
Jacoff, Sydney, to Great Neck Saw Manufactures, Inc. Hack saw or similar article. 214,827, 8–5–69, Cl. D8—96.
Jaffe, Daniel L., to Technological Products, Inc. Battery charger. 213,111, 1–7–69, Cl. D26—15.
Jakobsen, Robert E. K., to Schlumberger Ltd. (Schlumberger N.V.). Table. 213,116, 1–7–69, Cl. D33—14.
Jakobsen, Robert E. K., to Schlumberger Ltd. (Schlumberger N.V.). Table. 213,117, 1–7–69, Cl. D33—14.
Jakobsen, Robert E. K., to Schlumberger Ltd (Schlumberger N.A.) Table. 213.321, 2–18–69, Cl. D33—14.
James, William J. Combined mop bucket and strainer therefor. 216,277, 12–9–69, Cl. D49—29.
Janda, George M., to Automatic Electric Laboratories, Inc. Combined telephone handset support and equipment housing or similar article. 213,565, 3–18–69, Cl. D26—14.
Jannetti, Raymond: *See*—
Tartack, Louis, and Jannetti. 213,980.
Janowitz, Arnold. Lighting fixture. 215,750, 10–28–69, Cl. D48—20.
Jansons, Eric G.: *See*—
Gianfagna, John L., and Jansons. 216,052.
Janu, Carl P.: *See*—
Kamin, Albert, and Janu. 214,657.
Jarl, Lars E., and E. G. Taylor, to General Signal of Canada Ltd. Mobile laboratory unit. 215,713, 10–28–69, Cl. D16—2.
Jarl, Lars E., and E. G. Taylor, to General Signal of Canada Ltd. Mobile laboratory unit. 215,932, 11–11–69, Cl. D16—2.
Jarrett, Harry M. Man's sun shirt. 214,356, 6–10–69, Cl. D2—208.
Jasinski, William J., to Republic Molding Corp. Wall cabinet. 216,367, 12–23–69, Cl. D33—19.
Javanovich, Borislav D. Hanger. 215,898, 11–4–69, Cl. D80—8.
Jaybee Mfg., Inc.: *See*—
Beeson, Jon R. 215,921.
Jaycopter Corp.: *See*—
Jacobs, Peter C. 218,710.
Jeff, William J. Weighted fish hook. 214,269, 5–27–69, Cl. D22—30.
Jefferson, Leslie N. Coping for a swimming pool wall. 213,435, 3–4–69, Cl. D13—1.
Jeffries, Edward D. Automobile body. 215,089, 9–2–69, Cl. D14—3.
Jenner, Dee L.: *See*—
Berkl, Josef U., and Jenner. 213,913.
Jennie, Fred L.: *See*—
Weatherby, Roy E., and Jennie. 215,355.
Weatherby, Roy E., and Jennie. 215,356.
Jensen, Alvin I.: *See*—
Krengel, William, and Jensen. 215,195.
Jensen, Borge H. Furniture chest. 213,885, 4–22–69, Cl. D33—19.
Jensen, Borge H. Chest. 213,886, 4–22–69, Cl. D33—19.
Jensen, Donald E., to Porter-Jensen & Associates. Portable chalk board or the like. 213,625, 3–25–69, Cl. D25—1.
Jerrold Electronics Corp.: *See*—
Winston, Eric, and Frank. 215,722.
Jett Mfg. Corp.: *See*—
Yon, James H., Jr. 213,515.
Jewell, Donald K.: *See*—
Bloch, Roy W., and Jewell. 214,832.
Jiffy Mfg. Co.: *See*—
Davis, William F., and Oliver. 215,109.
Joffe, Joseph A., to Precision Technical Design Inc. Slidable-card locator map. 214,508, 6–24–69, Cl. D25—1.
Johanson, Ralph A. W., to Consolidated Foods Corp. Vacuum cleaner. 216,275, 12–9–69, Cl. D49—14.3.
Johns-Manville Corp.: *See*—
Cecchine, Joseph R. 213,554.
Cecchine, Joseph R. 214,495.
Green, Robert F. 213,367.
Pick, Ernest W. 213,553.
Johnson, Allan B.: *See*—
McCarty, Donald, Johnson, Cammack, Mattingly, Trenary, and Jeffers. 215,920.
Slee, Maxie E., Johnson, Lee, and Cammack. 216,235.
Johnson, Carl N., to General Electric Co. Clock or similar article. 215,956, 11–11–69, Cl. D42—7.
Johnson, Horace W. Shirt. 214,011, 5–6–69, Cl. D2—208.
Johnson, Logan W.: *See*—
Humphrey, Dallas R., and Johnson. 215,998.
Johnson, Robert T., A. F. Miller, and R. H. Schwab, to Brunswick Corp. Housing for an outboard propulsion unit. 215,504, 9–30–69, Cl. D71—1.
Johnson, Roland E., to The Procter & Gamble Co. Dispensing closure. 216,297, 12–16–69, Cl. D9—275.
Johnson, S. C., & Son, Inc.: *See*—
Luedtke, Warren J. 215,049.
Luedtke, Warren J. 215,084.
Johnson, Terry W. Rocking toy. 214,388, 6–10–69, Cl. D34—15.
Johnson, William F. Fireplace tool hanger. 214,383, 6–10–69, Cl. D33—17.
Jolly, Kenneth: *See*—
Knowles, Arthur N., and Jolly. 213,259.
Joly, Cyril B. Portable ventilator for attachment to a bed. 214,017, 5–6–69, Cl. D5—2.
Jones, Arthur L., to The Pelton & Crane Co. Dental cabinet or the like. 214,502, 6–24–69, Cl. D24—1.
Jones, Arthur L., to The Pelton & Crane Co. Dental cabinet or the like. 214,503, 6–24–69, Cl. D24—1.
Jones, Arthur L., to The Pelton & Crane Co. Dental cabinet or the like. 214,504, 6–24–69, Cl. D24—1.
Jones, Arthur L., to The Pelton & Crane Co. Dental cabinet or the like. 214,505, 6–24–69, Cl. D24—1.
Jones, Arthur L., to The Pelton & Crane Co. Dental cabinet or the like. 214,506, 6–24–69, Cl. D24—1.
Jones, Arthur L., to The Pelton & Crane Co. Dental cabinet or the like. 214,507, 6–24–69, Cl. D24—1.
Jones, Charles E., and J. H. Gruenhut, to Bell & Howell Co. Copying machine or similar article. 213,228, 1–14–69, Cl. D61—1.
Jones, Ernie G., Jr., and E. W. Schwenk. Portable weir. 213,956, 4–29–69. Cl. D23—1.
Jones, Fannie M.: *See*—
Thom, Wenzel W. 213,868.
Thom, Wenzel W. 214,312.
Thom, Wenzel W. 214,726.
Thom, Wensel W. 214,782.
Jones-Fenleigh, Edward J. Wall plaque or the like. 214,733, 7–22–69, Cl. D29—23.
Jones-Fenleigh, Edward J. Wall plaque or the like. 214,734, 7–22–69, Cl. D29—23.
Jones, Frank B., to The Dunlop Co. Ltd. Tire. 213,349, 2–18–69, Cl. D90—20.
Jones, Frank B., to The Dunlop Co. Ltd. Tire. 213,350, 2–18–69, Cl. D90—20.
Jones, Frank B. Tire. 213,657, 3–25–69, Cl. D90—20.
Jones, Frank B., to Dunlop Tire and Rubber Corp. Tire. 215,520, 9–30–69, Cl. D90—20.
Jones, Genevieve M. Acne skimmer. 215,775, 10–28–69, Cl. D83—12.
Jones, Glenn, to Delta Camper Inc. Combination boat-sled. 215,506, 9–30–69, Cl. D71—1.
Jones, Howland B., Jr., to Time & Tide, Inc. Clock. 215,466, 9–30–69, Cl. D42—7.
Jones, Mary H. Log heater. 215,440, 9–30–69, Cl. D23—106.
Jones, Paul R.: *See*—
Hiatt, Walter R., and Jones. 214,007.
Jones, Paul R., to Bates Industries, Inc. Face shield. 213,303, 2–18–69, Cl. D2—233.
Jones, Paul R., to Bates Industries, Inc. Face shield. 214,013, 5–6–69, Cl. D2—233.
Jones, Paul R., to Bates Industries, Inc. Face shield. 214,014, 5–6–69, Cl. D2—233.
Jones, R. A., & Co., Inc.: *See*—
Stone, Orison W. 216,002.
Jones, Richard F., to Agonic Engineering, Inc. Diver's helmet. 214,862, 8–12–69, Cl. D2—232.
Jones, Robert A., and G. A. Vold, to Anaconda Aluminum Co. Compartmented dinner tray. 214,580, 7–1–69, Cl. D44—10.
Jones, Robert V., and J. F. Talerico, to International Business Machines Corp. Tape drive. 213.964, 4–29–69, Cl. D26—5.
Jones, Russell E. Combination vehicle chassis and cab. 215,927, 11–11–69, Cl. D14—3.
Jones, William O., J. W. Stringer, and G. L. Switser, to International Business Machines Corp. Cabinet for an output printer unit. 214,761, 7–22–69, Cl. D61—1.
Jonkers, Martienus K. P. Ballpoint pen. 215,626, 10–14–69, Cl. D74—17.
Jordan, Elverse M.: *See*—
Roccaforte, Harry I., Jordan, and Inch. 214,879.
Roccaforte, Harry I., Jordan, and Inch. 215,414.

Josephsen, Roy C., G. F. Wellmann, and F. W. Stevens, to Allied Chemical Corp. Bottle. 214,429, 6–17–69, Cl. D9—155.
Joy Plastics, Inc.: *See*—
Kriegel, Louis. 214,077.
Kriegel, Louis. 215,016.
Kriegel, Louis. 216,216.
Joy, Theodore K., and H. M. Rose. Rotary storage rack. 215,125, 9–2–69, Cl. D80—9.
Joyce, William P. Surfboard bumper. 213,597, 3–18–69, Cl. D71—1.
Juba, Bernard T.: *See*—
Chandler, Wesley M., and Juba. 213,689.
Chandler, Wesley M., and Juba. 213,777.
Chandler, Wesley M., and Juba. 214,894.
Judie, Jam A.: *See*—
Hermalin, Harry J. 213,376.
Judson, William V.: *See*—
Daher, Theodore G., and Judson. 214,179.
Daher, Theodore G., and Judson. 214,637.
Daher, Theodore G., and Judson. 216,212.
Judson, William V., to General Electric Co. Clock or similar article. 214,519, 6–24–69, Cl. D42—7.
Judson, William V., to General Electric Co. Clock or similar article. 214,638, 7–8–69, Cl. D42—7.
Julkenbeck, Hans J. H., to U.S. Philips Corp. Humidifier. 215,719, 10–28–69, Cl. D23—146.
Justice, Howard R., II. Bottle. 213,089, 1–7–69, Cl. D9—64.
KCS Industries, Inc.: *See*—
Ferro, William P. 216,283.
Kabushiki Kaisha Koparu: *See*—
Watanabe, Riki. 214,807.
Kabushiki Kaisha Ricoh: *See*—
Rin, Ensei. 214,381.
Kabushiki Kaisha Satake Seisakusho: *See*—
Satake, Yoshiharu. 215,122.
Kadmon, Alice: *See*—
Kadmon, Otto and A. 215,304.
Kadmon, Otto and A. Illuminable Christmas decoration. 215,304, 9–23–69, Cl. D29—1.
Kaffer, Donald M.: *See*—
Oxford, Jerry J., Kaffer, and Strenfel. 214,353.
Kagen, David F., and J. G. MacDonald. Humidifier. 214,271, 5–27–69, Cl. D23—147.
Kahn, Albert, to Electro-Voice Inc. Microphone. 213,567, 3–18–69, Cl. D26—14.
Kahn, Robert D., to Fedtro, Inc. Automotive dash board illumination lamp. 213,216, 1–14–69, Cl. D48—32.
Kahn, Robert D., to Fedtro, Inc. Flashing signal light unit. 213,530, 3–11–69, Cl. D72—1.
Kahn, Robert D., to Fedtro, Inc. Automobile anti-tampering audible alarm. 214,468, 6–17–69, Cl. D72—1.
Kahn, Robert D., to Fedtro, Inc. Auxiliary telephone listening device. 214,628, 7–8–69, Cl. D26—14.
Kahn, Robert D., to Fedtro, Inc. Auxiliary battery charger. 214,914, 8–12–69, Cl. D26—15.
Kahn, Robert D. Flashing signal unit. 214,964, 8–12–69, Cl. D72—1.
Kahn, Robert D. Flashing signal unit. 215,372, 9–23–69, Cl. D72—1.
Kahn, Robert D., to Fedtro, Inc. Hose display package. 215,702, 10–28–69, Cl. D9—191.
Kahn, Robert D., to Fedtro, Inc. Television antenna coupler. 215,940, 11–11–69, Cl. D26—14.
Kaiser, Jack N., to American Standard Inc. Bathtub. 216,119, 11–25–69, Cl. D23—55.
Kaiser, John: *See*—
Vesely, Donald V., and Kaiser. 213,519.
Vesely, Donald V., and Kaiser. 213,520.
Vesely, Donald V., and Kaiser. 213,521.
Kaiser, Henry R., to Union Special Machine Co. Combined sewing machine and supporting table. 215,623, 10–14–69, Cl. D70—1.
Kajiwara, Daisuke: *See*—
Mizuno, Kohji, and Kajiwara. 215,379.
Kallman, Robert: *See*—
Kanter, Harry, and Kallman. 215,801.
Kalmar Verkstads Aktiebolag: *See*—
Monö, Rune G., and Hellström. 216,299.
Kalvitis, Robert E., to Xerox Corp. Housing for electronic apparatus. 215,294, 9–23–69, Cl. D26—5.
Kalvitis, Robert E., to Xerox Corp. Housing for electronic apparatus. 215,660, 10–21–69, Cl. D26—5.
Kalvitis, Robert E., to Xerox Corp. Roll-feed apparatus for a facsimile transceiver. 215,849, 11–4–69, Cl. D26—14.
Kalvitis, Robert E., and P. S. Heiler, to Xerox Corp. Flexible sheet material guide for a facsimile transceiver or similar article. 216,123, 11–25–69, Cl. D26—14.
Kamata, Eitaro, to American Safety Equipment Corp. Safety helmet. 216,071, 11–25–69, Cl. D2—231.
Kamin, Albert, and C. P. Janu. Combined saddle, support, back rest and reflector for a bicycle. 214,657, 7–8–69, Cl. D90—1.
Kaminski, Donald F., to Wawwick Electronics, Inc. Record player tone arm or similar article. 213,833, 4–15–69, Cl. D26—14.
Kaminski, Donald F., and R. M. Kapsaris, to Warwick Electronics, Inc. Speaker. 215,449, 9–30–69, Cl. D26—14.
Kamp, George B., and S. Rejniak, to International Telephone and Telegraph Corp. Loudspeaker unit. 215,300, 9–23–69, Cl. D26—14.
Kanamaru Shoten, Ltd.: *See*—
Mizutani, Takeshi. 215,615.
Mizutani, Takeshi. 215,752.
Kandy-Pak, Inc.: *See*—
Klayman, Saul. 215,319.
Klayman, Saul. 215,320.
Kane, John W.: *See*—
Elliott, Ernest A., and Kane. 214,731.
Kane, Myron N. Dispenser for liquid soap or the like. 215,667, 10–21–69, Cl. D33—30.
Kanitz, Emeric, to Cannon Mills Co. Bed sheet or similar article of bed linen. 213,754, 4–1–69, Cl. D92—26.
Kanter, Harry, and R. Kallman. Necktie knot support. 215,801, 11–4–69, Cl. D2—359.
Kanter, Joseph S. Chinese decored building. 216,298. 2–16–69. Cl. D13—1.
Kaplan, Arnold. Luggage case. 215,679, 10–21–69, Cl. D87—5.
Kaplan, Irving, to Label-Matic, Inc. Labeling machine. 214,403, 6–10–69, Cl. D64—10.
Kaplan, Ronald M., to H & G Industries, Inc. Paint brush. 213,760, 4–8–69, Cl. D4—38.
Kapper, Henry, and J. D. Sims, Jr., to International Business Machines Corp. Banking terminal. 214,704, 7–15–69, Cl. D64—11.
Kapsaris, Robert M.: *See*—
Kaminski, Donald F., and Kapsaris. 215,449.
Karen, Thomas, to Raleigh Industries Ltd. Cycle saddle. 214,980, 8–12–69, Cl. D90—16.
Karen, Thomas J. D. P.: *See*—
Gordon, John M., Letherland, and Karen. 214,820.
Karfo, John, and D. P. Ieserek. Hair comb. 214,709, 7–15–69, Cl. D86—8.
Karl, Thomas M. Traffic light. 214,104, 5–6–69, Cl. D72—1.
Karlsson, Knut Y.: *See*—
Domstedt, Johan A., and Karlsson. 216,155.
Karoll's Inc.: *See*—
Beardmore, John E. 213,773.
Karow, William E., and L. E. Simpson, to L. Schwartz. Microfilm rear projection viewer or similar article. 213,851, 4–15–69, Cl. D61—1.
Kasagi, Taro: *See*—
Kubo, Kazuhiko, and Kasagi. 215,994.
Kashiwagi, Tetsuo, Y. Koshido, and Y. Orikasa, to Hitachi, Ltd. Desk electronic calculator. 215,366, 9–23–69, Cl. D64—11.
Kaslow, Robert G., and E. E. Kissinger; said Kissinger, assor. to Vesta Corp. Grill. 214,109, 5–6–69, Cl. D81—10.
Kassel, Arthur M. Undercover small arms shoulder holster. 214,560, 7–1–69, Cl. D22—13.
Kassin, Ronald A., to Schenley Industries, Inc. Decanter. 214,427, 6–17–69. Cl. D9—119.
Katerndahl, Dean R., to Abbott Laboratories. Inhaler. 214,972, 8–12–69, Cl. D83—1.
Katona, William F., to Monogram Industries, Inc. Public portable sanitation building. 214,886, 8–12–69, Cl. D13—1.
Katz, Meyer M., to Crystal Metal Products Co., Inc. Hand-held paint scraper or similar article. 215,670, 10–21–69, Cl. 49—26.
Katzman, Lawrence, and R. Dublirer. Bun warmer. 213,330. 2–18–69, Cl. D44—15.
Katzman, Lawrence, and E. Briggin, to Kaz Mfg. Co., Inc. Vaporizer bowl. 214,051, 5–6–69, Cl. D23—148.
Katzman, Lawrence, E. Briggin, and M. L. Levin, to Kaz Mfg. Co., Inc. Vaporizer. 214,563, 7–1–69, Cl. D23—148.
Katzman, Lawrance, E. Briggin, and M. L. Levin, to Kaz Mfg. Co., Inc. Vaporizer bowl or the like. 215,845, 11–4–69, Cl. D23—148.
Kauffman, John J.: *See*—
Power, James F., Kauffman, and Payne. 216,055.
Kauffman, Robert A., to In-Flight Devices Corp. Strobe light. 214,706, 7–15–69, Cl. D72—1.
Kawakami, Kazuo, to Teikoku Dempa Co., Ltd. Tape player. 216,125, 11–25–69, Cl. D26—14.
Kaz Mfg. Co., Inc.: *See*—
Katzman, Lawrence, and Briggin. 214,051.
Katzman, Lawrence, Briggin, and Levin. 214,563.
Katzman, Lawrance, Briggin, and Levin. 215,845.
Kearney, Patrick. Bottle cap. 216,007, 11–18–69, Cl. D9—281.
Keeler Brass Co.: *See*—
Bocade, Emil J. 213,358.
Bocade, Emil J. 215,140.
Keen, Walter J., to Dishmaster Appliances Ltd. Glass holding rack for a dishwasher. 213,130, 1–7–69, Cl. D49—1.
Kelch, Alfred H., Jr., to The Kelch Corp. Rod-securing element. 214,992, 8–19–69, Cl. D8—236.
Kelch Corp., The: *See*—
Kelch, Alfred H., Jr. 214,992.
Kelleher, Thomas: *See*—
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,604.
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,605.
Kellogg Co.: *See*—
Cooper, Myron G., and Grandon. 215,261.
Cooper, Myron G., Grandon, and Vondell. 213,941.
Cooper, Myron G., Grandon, and Vondell. 213,942.
Cooper, Myron G., Grandon, and Vondell. 213,943.
Cooper, Myron G., Grandon, and Vondell. 213,944.
Cooper, Myron G., Grandon, Vondell, and Ellis. 213,945.
Cooper, Myron G., Grandon, Vondell, and Ellis. 213,946.
Cooper, Myron G., and Vondell. 214,659.
Cooper, Myron G., and Vondell. 215,260.
Kellogg, Thomas W., to Dazey Products Co. Household bag heat sealing appliance. 215,568, 10–7–69, Cl. D55—1.
Kelly, Eugene W.: *See*—
Glover, William T., and Kelly. 215,847.

Kelly, Roger L., to American Home Products Corp. Knife. 213,348, 2–18–69, Cl. D95—3.
Kelsey-Hayes Co.: *See*—
Reid, Donald J. 213,314.
Reid, Donald J. 213,315.
Reid, Donald J. 214,243.
Reid, Donald J. 214,728.
Kelsey, Steve: *See*—
Frankel, John L., and Kelsey. 213,441.
Kelso, Rai B., and L. F. Herndon, Jr. Floating bar. 215,959, 11–11–69, Cl. D44—10.
Kemp, Paul G., to Kemp Products Inc. Combined milk bottle and carrying handle. 214,239, 5–20–69, Cl. D9—46.
Kemp, Paul G., to Kemp Products Inc. Milk bottle. 214,240, 5–20–69, Cl. D9—99.
Kemp Products Inc.: *See*—
Kemp, Paul G. 214,239.
Kemp, Paul G. 214,240.
Keneklis, Edward W. Surfboard. 214,215, 5–20–69, Cl. D71—1.
Kennedy, Robert W., to Westinghouse Electric Corp. Automatic ice cube maker. 214,963, 8–12–69, Cl. D67—3.
Kenner Products Co.: *See*—
Bernard, Terry L. 215,312.
Rodmaker, Gerald M., and Burkart. 215,318.
Utrecht, Karl A. 215,185.
Kent, Harry W. Combined ashtray and coaster. 215,255, 9–16–69, Cl. D85—2.
Kenworthy, Charles A. Measuring wheel with extendable handle. 214,756, 7–22–69, Cl. D52—6.
Kern, Frank E.: *See*—
Curtin, Kenneth M., Kern, White, and Baechle. 215,846.
Kershaw, Royce G. Railroad track spike. 214,993, 8–19–69, Cl. D8—271.
Kery, Ervin, to Enger-Kres Co. Billfold. 213,411, 2–25–69, Cl. 87—3.
Kessler, Harold, and J. Landau. Cuff link backing. 213,169, 1–14–69, Cl. D2—422.
Ketcham, Charles B., to Corning Glass Works. Cup or the like. 215,747, 10–28–69, Cl. D44—9.
Ketcham & McDougall, Inc.: *See*—
Macowski, William. 213,301.
Macowski, William. 214,464.
Kettell, Philip E., to E. A. Adams & Son, Inc. Coaster. 214,642, 7–8–69, Cl. D44—10.
Keuffel & Esser Co.: *See*—
Collura, Francesco. 213,319.
Henshaw, John F. and V. H. 215,968.
Keystone Consolidated Industries, Inc.: *See*—
Algoren, Lionel C. 213,879.
Amdal, Gagfinn O. 216,385.
Baker, Bernie B. 213,908.
Sonnenleiter, George R. 213,864.
Sonnenleiter, George R. 213,865.
Stone, Roy A. 215,404.
Unter, Robert K. 213,587.
Unter, Robert K. 213,863.
Unter, Robert K. 214,687.
Uniter, Robert K. 214,713.
Uniter, Robert K. 214,754.
Unter, Robert K. 215,020.
Khazzam, Joseph N., to Regent Sports Co. Baseball glove, or similar article. 213,284, 2–4–69, Cl. D2—361.
Khazzam, Joseph N., to Regent Sports Co. Baseball glove, or similar article. 213,285, 2–4–69, Cl. D2—361.
Khazzam, Joseph N., to Regent Sports Co. Baseball glove, or similar article. 213,286, 2–4–69, Cl. D2—361.
Khazzam, Joseph N., to Regent Sports Co. Baseball glove, or similar article. 213,287, 2–4–69, Cl. D2—361.
Khazzam, Joseph N., to Regent Sports Co. Baseball glove, or similar article. 213,288, 2–4–69, Cl. D2—361.
Khazzam, Joseph N., to Regent Sports Co. Baseball glove, or similar article. 213,289, 2–4–69, Cl. D2—361.
Kiddie Tot Hosiery Mills, Inc.: *See*—
Clark, Edward M. 214,301.
Kiekhaefer, Elmer C., to Brunswick Corp. Snowmobile cowl. 214,266, 5–27–69, Cl. D14—24.
Kieran, Lewis J. Lipstick blending machine. 215,388, 9–23–69, Cl. D86—10.
Killoran, Russell F. Boot jack. 214,710, 7–15–69, Cl. D86—10.
Kim, Charles. Eye measurer for eyelashes. 216,156, 11–25–69, Cl. D52—6.
Kimberlin, Adie W. Cigarette lighter. 214,685, 7–15–69, Cl. D48—27.
Kincaid, Gary L., and G. W. Gaarder, to Gray Mfg. Co., Inc. Vehicle lift. 214,930, 8–12–69, Cl. D41—1.
King, Charles W., to General Mills, Inc. Snack food product. 213,084, 1–7–69, Cl. D1—16.
King, Edward J., Jr., and B. J. Copeland, to King Radio Corp. Transponder. 215,663, 10–21–69, Cl. D26—14.
King, James A.: *See*—
Hunter, Hal C., King, and Moffitt. 216,201.
King, James V. Child's vehicle. 214,576, 7–1–69, Cl. D34—15.
King, Malcolm R. Game device or similar article. 214,800, 7–29–69, Cl. D34—5.
King Radio Corp.: *See*—
King, Edward J., Jr., and Copeland. 215,663.
King, Ronald E. Foot mat. 214,681, 7–15–69, Cl. D44—31.
Kingsley, Jerrold L., to American Home Products Corp. Rug shampooer. 213,846, 4–15–69, Cl. D49—14.
Kinkead Industries Inc.: *See*—
Brenner, Roy L. 213,402.
Kinslow, William E., to Radio Corp. of America. Check-out counter or similar article. 215,380, 9–23–69, Cl. D80—2.
Kinsman Mfg. Co.: *See*—
Rieth, Henry. 215,552.
Kipp, David H.: *See*—
Whisnand, Augustus W., Easterling, and Kipp. 214,787.
Kirk, Paul H. Trailer. 216,109, 11–25–69, Cl. D14—3.
Kirman, James S.: *See*—
Zilg, George L., and Kirman. 215,046.
Kissinger, Harell E.: *See*—
Kaslow, Robert G., and Kissinger. 214,109.
Kistler, Werner. Package of cotton swabs or the like. 214,430. 6–17–69, Cl. D9—187.
Kitaguchi, Katsuhiko, to Taihei Saddle Mfg. Co., Ltd. Saddle for a bicycle. 214,478, 6–17–69, Cl. D90—16.
Kiven, Norman M. Security television camera. 214,702, 7–15–69, Cl. D61—1.
Kiven, Norman M. Combined surveillance camera support and actuator unit. 214,703, 7–15–69, Cl. D61—1.
Kiwala, Edward J. Frankfurter or the like. 215,800, 11–4–69. Cl. D1—26.
Kiwala, Edward J. Bun or the like. 216,184, 12–2–69, Cl. D1—24.
Klamer, Reuben B. Doll. 213,267, 1–28–69, Cl. D34—4.
Klamer, Reuben B. Doll shoe. 214,634, 7–8–69, Cl. D34—4.
Klamer, Reuben B., R. Y. Allen, and M. Shaw; said Allen and said Shaw assors. to said Klamer. Toy dog or the like. 214,384, 6–10–69, Cl. D34—2.
Klamer, Reuben B., R. Y. Allen, and M. Shaw; said Allen, and said Shaw, assors. to said Klamer. Toy giraffe or the like. 214,513, 6–25–69, Cl. D34—2.
Klamer, Reuben B., R. Y. Allen, and M. Shaw. Toy elephant head or the like. 214,514, 6–24–69, Cl. D34—2.
Klamer, Reuben B., R. Y. Allen, and M. Shaw. Toy giraffe head or the like. 214,515, 6–24–69, Cl. D34—2.
Klamer, Reuben B., R. Y. Allen, and M. Shaw. Toy dog head or the like. 214,516, 6–24–69, Cl. D34—2.
Klamer, Reuben B., R. Y. Allen, and M. Shaw; said Allen, and said Shaw, assors. to said Klamer. Toy elephant or the like. 214,517, 6–24–69, Cl. D34—2.
Klara, Stanley. Combined bed, chest of drawers and diaper changing support. 214,863, 8–12–69, Cl. D5—5.
Klayman, Saul, to Kandy-Pak, Inc. Decorative pick for attachment of flowers to a base material. 215,319, 9–23–69, Cl. D35—1.
Klayman, Saul, to Kandy-Pak, Inc. Decorative floral stake. 215,320, 9–23–69, Cl. D35—1.
Klein, Edward, to Lear Siegler, Inc. Fireplace. 213,959, 4–29–69, Cl. D23—94.
Klein, Henry. Decorative panel for furniture or the like. 213,973, 4–29–69, Cl. D33—1.
Klein, Henry. Frame for an overstuffed sofa or the like. 214,043, 5–6–69, Cl. D15—11.
Klein, Milton F., to General Time Corp. Clock casing. 213,457, 3–4–69, Cl. D42—7.
Kliewer, Betty J.: *See*—
Kliewer, Homer F., and Rawson. 215,145.
Kliewer, Homer F., and Rawson. 215,146.
Kliewer, Homer F., deceased (by B. J. Kliewer, administratrix), and J. E. Rawson, ⅔ to E. H. Schull, Hangar for high wing aircraft. 215,145, 9–9–69, Cl. D13—1.
Kliewer, Homer F., deceased (by B. J. Kliewer, administratrix), and J. E. Rawson, ⅔ to E. H. Schull, Hangar for low wing aircraft. 215,146, 9–9–69, Cl. D12—1.
Klink, Wolf-Dieter. Double buckle for twin safety belts. 213,087, 1–7–69, Cl. D2—408.
Klink, Wolf-Dieter. Safety belt buckle. 213,088, 1–7–69, Cl. D2—408.
Klitzner, Alan J. Golf putter head. 214,457, 6–17–69, Cl. D34—5.
Klugmann, Julius. Combined display card and hair piece package. 214,242, 5–20–69, Cl. D9—191.
Knab, James V., to Weber Showcase & Fixture Co., Div. of Walter Kidde & Co., Inc. Portable air filtration unit. 214,375, 6–10–69, Cl. D23—149.
Knapp, Ralph R., to Farmer's Daughter, Inc. Building. 213,677, 4–1–69, Cl. D13—1.
Kneale, Collan B., D. E. Sylte, R. B. Wheeler, and F. Wilkey, Jr., to International Business Machines Corp. Optical page reader. 214,626, 7–8–69, Cl. D26—5.
Kneapler, Stephen J., to Richford Corp. Bottle. 213,307, 2–18–69, Cl. D9—115.
Kneapler, Stephen J., to Richford Corp. Bottle. 213,308, 2–18–69, Cl. D9—143.
Kneapler, Stephen J., to Richford Corp. Bottle. 213,355, 2–5–69, Cl. D9—143.
Kneapler, Stephen J., to Richford Corp. Bottle closure. 213,430, 3–4–69, Cl. D9—285.
Kneapler, Stephen J., to Richford Corp. Bottle. 216,250, 12–9–69, Cl. D9—147.
Knepp, Morris M.: *See*—
Brefka, Paul E., and Knepp. 213,702.
Kner, Albert, to Dart Industries, Inc. Container for foodstuffs or the like. 214,334, 6–3–69, Cl. D44—10.
Knigge, Ulrich. Carrying bag for hand tools. 214,983, 8–19–69, Cl. D2—229.
Knigge, Ulrich H. Carrying bag for hand tools. 215,516, 9–30–69, Cl. D87—1.
Knight, Harry F., Jr., and D. E. Coyle, to Clopay Corp. Dispenser for sheet material. 215,671, 10–21–69, Cl. D52—2.
Knowles, Alvis R., to Eldon Industries, Inc. Heating element tip for ski repair. 213,782, 4–8–69, Cl. D26—1.

Knowles, Alvis R., to Eldon Industries, Inc. Electric solder pot. 215,448, 9–30–69, Cl. D23—77.
Knowles, Arthur N., and K. Jolly, to London Winery Ltd. Bottle. 213,259, 1–28–69, Cl. D9—23.
Knowles, Arthur N., and S. J. Cino, to London Winery Ltd. Bottle. 213,263, 1–28–69, Cl. D9—151.
Knowles, Frederick G., and E. O. Wangerin, to Eastman Kodak Co. Film cartridge or similar article. 215,358, 9–23–69, Cl. D61—1.
Kobayashi, Tatsuo, to Mac Corp. Knife. 216,180, 11–25–69, Cl. D95—3.
Koch, Arnold H., to General Fire Extinguisher Corp. Cover for a portable fire extinguisher. 213,954, 4–29–69, Cl. D16—2.
Koch, Edward W., and D. C. Dorsi, to Sterling Glass Laboratories, Inc. Drinking glass. 215,554, 10–7–69, Cl. D36—8.
Koch, George A., to Curtis Products Ltd. Chair. 213,191, 1–14–69, Cl. D15—1.
Koch, George A., to Curtis Products Ltd. Chair. 213,438, 3–4–69, Cl. D15—1.
Koch, George A., to Curtis Products Ltd. Arm chair. 213,439, 3–4–69, Cl. D15—1.
Koch, Walter L., and K. A. Day, to Rowe International, Inc. Merchandising machine panel. 214,341, 6–3–69, Cl. D52—3.
Koch, Walter L., and K. A. Day, to Rowe International, Inc. Coin insertion slot. 214,948, 8–12–69, Cl. D52—3.
Kocon, Mary L. Hospital cart. 213,098, 1–7–69, Cl. D14—3.
Kocsis, John: *See*—
Borden, Clarence W., Kocsis, and Kubala. 215,091.
Koeber, Theodore H., and R. A. Skyer, to International Harvester Co. Riding lawn mower. 213,124, 1–7–69, Cl. D40—1.
Koenig, Erl A. Golf putter head. 213,507, 3–11–69, Cl. D34—5.
Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 213,545, 3–18–69, Cl. D9—169.
Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 214,780, 7–29–69, Cl. D9—168.
Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 214,873, 8–12–69, Cl. D9—83.
Koenigsberg Victor, and J. M. Amburgey, to Colgate-Palmolive Co. Bottle or similar article. 213,544, 3–18–69, Cl. D9—155.
Kogutt, Samuel M. Wallet-check holder combination. 216,173, 11–25–69, Cl. D87—3.
Kohles, August F. Document sorting device. 213,737, 4–1–69, Cl. 74—2.
Kohner Bros., Inc.: *See*—
Kohner, Frank, and Stubbman. 215,316.
Kohner, Frank, and A. Stubbman, to Kohner Bros., Inc. Twirling figurine toy. 215,316, 9–23–69, Cl. D34—15.
Koll, Stanley J.: *See*—
Wolf, Edward M., and Koll. 214,379.
Kollberg, Gary L. Cap for a pressurized can or the like. 213,861, 4–22–69, Cl. D9—258.
Konwiser, Herbert, to K. C. Pen Co., Inc. Writing implement. 213,739, 4–1–69, Cl. D74—17.
Korshak, Marvin S. Molded bib. 216,291, 12–16–69, Cl. D2—226.
Koshido, Yasuhiro: *See*—
Kashiwagi, Tetsuo, Koshido, and Orikasa. 215,366.
Kostritsky, George E., to RTKL Inc. Luminaire for a street lamp. 215,068, 8–26–69, Cl. D48—31.
Kostritsky, George E., to RTKL Inc. Street lamp. 216,274, 12–9–69, Cl. D48—31.
Koziol, Walter, to Charmglow Mfg. Co. Cooking apparatus. 213,533, 3–11–69, Cl. D81—10.
Koziol, Walter, to Charmglow Mfg. Co. Barbecue grill type cooking apparatus. 214,707, 7–15–69, Cl. D81—10.
Koziol, Walter, to Charmglow Mfg. Co. Cooking grill device. 215,630, 10–14–69, Cl. D81—10.
Koziol, Walter, to Charmglow Mfg. Co. Cart. 216,027, 11–18–69, Cl. D33—14.
Koziol, Walter, to Charmglow Mfg. Co. Combined bell and support therefor. 216,230, 12–2–69, Cl. D72—1.
Kracke, Donald R. Storage cabinet or similar article. 213,266, 1–28–69, Cl. D33—19.
Kracke, Donald R. Font of type. 215,072, 8–26–69, Cl. D64—12.
Kraemer, Sandy F. Tiltable marble game table. 213,706, 4–1–69, Cl. D34—5.
Kramex Corp.: *See*—
Shiiba, Kuniyoshi. 216,285.
Kraus, Alex, to California Custom Accessories Mfg. Co. Air cleaner cover. 213,403, 2–25–69, Cl. D55—1.
Kraus, Alex. Automobile door lock knob. 215,811, 11–4–69, Cl. D8—113.
Kraus, Alex. Automobile window crank. 215,813, 11–4–69, Cl. D8—161.
Kraus, Alex. Automobile door handle. 215,814, 11–4–69, Cl. D8—161.
Kraus, Richard W., and J. G. Rondepierre, to Atlantic Aviation Corp. Utilities module for aircraft cabin interior. 213,144, 1–7–69. Cl. D71—1.
Kraus, Richard W., and J. G. Rondepierre, to Atlantic Aviation Corp. Combined window frame and shade for aircraft cabin interior. 213,145. 1–7–69, Cl. D71—1.
Krechman, David. Cartridge radio tuner. 214,291, 5–27–69, Cl. D56—4.
Kreis, Walter, and P. Troesch, to Georg Fischer Aktiengesellschaft. Combined control motor housing and mounting bracket therefor. 215,495, 9–30–69, Cl. D54—1.
Kremer, Lucien. Thermometer. 215,877, 11–4–69, Cl. D52—7.
Krengel, William, and A. I. Jensen, to American Safety Equipment Corp. Buckle. 215,195, 9–16–69, Cl. D2—408.
Kress, George H.: *See*—
Smith, Gordon, and Kress. 214,163.
Kriegel, Louis, to Joy Plastics, Inc. Draining rack for dishes and other kitchen utensils. 214,077, 5–6–69, Cl. D44—29.
Kriegel, Louis, to Joy Plastics, Inc. Combined display and storage tray for cutlery or the like. 215,016, 8–19–69, Cl. D44—29.
Kriegel, Louis, to Joy Plastics, Inc. Pitcher. 216,216, 12–2–69. Cl. D44—21.
Kroehler Mfg. Co.: *See*—
Solie, Orville B. 214,778.
Solie, Orville B. 215,731.
Solie, Orville B. 216,130.
Kroener, Donald F. Handle for a knife blade or the like. 214,828, 8–5–69 Cl. D8—107.
Kroy Industries Inc.: *See*—
Humphrey, Dallas R., and Johnson. 215,998.
Krueger Metal Products, Inc.: *See*—
Schier, Robert W. 213,149.
Schier, Robert W., and Odar. 214,324.
Schier, Robert W., and Odar. 214,325.
Schier, Robert W., and Odar. 214,923.
Schier, Robert W., and Odar. 214,924.
Schier, Robert W., and Singer. 214,622.
Schier, Robert W., and Singer. 214,922.
Krueger, Walter L.: *See*—
Gaglio, Peter A., Hansen, and Krueger. 215,156.
Kubala, Francis W.: *See*—
Borden, Clarence W., Kocsis, and Kubala. 215,091.
Kubo, Kazuhiko, and T. Kasagi, to Hitachi Maxell, Ltd. Electric dry shaver. 215,994, 11–11–69, Cl. D95—3.
Kuchta, Frank J.: *See*—
Gutowski, Wojciech S., Kuchta, and West. 213,643.
Kuchuris, Louis G., and F. E. Ouradnik. Rotary die for embossing a bakery bun or the like. 213,574, 3–18–69, Cl. D44—1.
Kuhlman, Walter F., to Kulman Machine Co. Pneumatic positioning work support. 213,469, 3–4–69, Cl. D54—13.
Kukon, John P., J. R. Fitzpatrick, and J. K. Bock, to Aereon Corp. Model aircraft. 213,510. 3–11–69, Cl. D34—15.
Kukura, Tomasina. Bed-sofa. 215,840, 11–4–69, Cl. D15—11.
Kulbersh, Irwin R.: *See*—
Ferdinand, Irwin J., and Kulbersh. 214,724.
Kull, Eberhard, B. Wetzke, W. Griebel, K.-H. Breite, and H. Wiesmair, to Veb Rhonglaswerk Dermbach. Combined insulated food container, cup and spoon. 216,407, 12–30–69, Cl. D44—1.
Kulman Machine Co.: *See*—
Kuhlman, Walter F. 213,469.
Kunkel, Edward J., to International Corporated Services. Door knocker. 214,774, 7–22–69, Cl. D8—177.
Kunkle, Calvin S., FMC Corp. Hose reel housing for fire truck. 216,388, 12–30–69, Cl. D14—6.
Kurmann, Joseph. Busmobile. 214,783, 7–29–69, Cl. D14—3.
Kurz, Jerome L.: *See*—
Simpkinson, William V., and Kurz. 216,278.
Kusche, Norman A.: *See*—
Hughes, Willard A., and Kusche. 216,061.
Kusznir, Phillip S. Exercising device. 214,569, 7–1–69, Cl. D34—5.
Kut Kleen Kutter Corp.: *See*—
McGee, Porter G. 215,390.
Kuypers, Norbert T.: *See*—
Armstrong, William H., and Kuypers. 215,859.
Kuypers, Norbert T., to Borg-Warner Corp. Remote control housing. 215,299, 9–23–69. Cl. D26—13.
Kwik-File, Inc.: *See*—
Hess, Elmer J. 216,203.
Hess, Elmer J. 216,204.
L-Coil Research: *See*—
Shirey, James W. 213,099.
Labconco Corp.: *See*—
Sullivan, Paul E. 214,376.
Label-Matics, Inc.: *See*—
Kaplan, Irvin. 214,403.
Laboratories Lutsia: *See*—
Fekete Jean-Marie. 213,296.
Labranche Industries, Inc.: *See*—
Portyrata, Raymond E. 214,064.
La Fara, James S., to Graham Paper Co. Core for roll paper products. 215,945, 11–11–69, Cl. D33—31.
La Haye, Frank: *See*—
Baker, Berkley J., and La Haye. 215,606.
Lakin, Willis M., to Marlin Toy Products, Inc. Amphibious toy boat. 213,122. 1–7–69, Cl. D34—15.
Lamb, Roger A., Resiflex Laboratories. Bedside bag hanger. 213,345. 2–18–69. Cl. D83—1.
Lambda Electronics Corp.: *See*—
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,604.
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,605.
Lambert, Gerard L., D. J. Maurer, D. H. Meggs, S. W. Renner, and H. C. Starner, to Mattel, Inc. Convertible vehicular toy. 213,327, 2–18–69, Cl. D34—15.
Lamport Co., Inc., The: *See*—
Bassett, Irwin. 213,237.
Landau, Jack: *See*—
Kessler, Harold, and Landau. 213,169.
Landell, Harper, and T. J. De Paul. Sink faucet. 213,874, 4–22–69, Cl. D23—23.

Landor, Walter J., to Hills Bros. Coffee, Inc. Jar or the like. 215,269, 9–23–69, Cl. D9—150.
Landor, Walter J., to Hills Bros. Coffee, Inc. Jar or the like. 215,412, 9–30–69, Cl. D9—119.
Landsman, Allan. Window panel. 216,101, 11–25–69, Cl. D18—1.
Lane Co., Inc., The: *See*—
Thorn, John B., and Bus. 214,671.
Thorn, John B., and Bus. 214,673.
Lane, Donald, to Hurst-Campbell, Inc. Tachometer. 214,201, 5–20–69, Cl. D52—6.
Lane, Norman, to BSR Ltd. Phonograph cartridge. 216,124, 11–25–69, Cl. D26—14.
Laner, Harlan S.: *See*—
Anderson, John A. 214,161.
Langdon, Arthur J., to Edward Weck & Co., Inc. Intravenous needle hub. 214,112, 5–6–69, Cl. D83—12.
Lange, Morris, to Superior Funeral Supply Corp. Casket display bier. 214,668, 7–15–69, Cl. D19—1.
Lange, Morris, to Superior Funeral Supply Corp. Floor lamp base. 215,235, 9–16–69, Cl. D48—20.
Lange, Morris, to Superior Funeral Supply Corp. Prayer rail. 215,838, 11–4–69, Cl. D15—8.
Langston, John T. Washing machine. 213,996, 4–29–69, Cl. D49—1.
Lanigan, Richard W., to GAF Corp. Random slide selector attachment for a slide projector. 214,000, 4–29–69, Cl. D61—1.
Lapointe, Yves A., to Bombardier Ltd. Watercraft cowling. 216,341, 12–16–69, Cl. D71—1.
Lapointe, Yves A., to Bombardier Ltd. Watercraft. 216,342, 12–16–69, Cl. D71—1.
Lapointe, Yves A., to Bombardier Ltd. Combined watercraft cowling and fins. 216,343, 12–16–69, Cl. D71—1.
Lara, Lillie M. Spectacle front. 216,335, 12–16–69, Cl. D57—1.
Lark Luggage Corp.: *See*—
Pelavin, Joseph Y. 215,367.
Larsen, Johannes P. Pillow. 215,536, 10–7–69, Cl. D3—9.
Larson, John J. M., to Graham Paper Co. Movable rack for roll paper products. 215,019, 8–19–69, Cl. D52—2.
Larson, Orville W., to Ampex Corp. Combined portable tape recorder and speakers. 213,784, 4–8–69, Cl. D26—14.
La Selva, Armand G.: *See*—
Annis, Martin, Davidson, La Selva, and St. Martin. 213,805.
Laszlo, Nicolas, to Etablissements Carpano and Pons. Fishing reel. 215,599, 10–14–69, Cl. D22—25.
Latch, Mason, and A. R. Saeedi. Snow bike. 215,458, 9–30–69, Cl. D34—15.
Lattin, Leroy E., to Universal Products Corp. Cable shearing pliers. 213,302, 2–4–69, Cl. D95—5.
Laughlin, Clayton A., to Arthur Salm Inc. Letter opener or the like. 214,470, 6–17–69. Cl. D74—10.
Laughlin, Clayton A., to Standard Oil Co. Tape reel or the like. 214,511, 6–24–69, Cl. D26—14.
Laughlin, Clayton A., to Salm, Arthur, Inc. Letter opener or the like. 215,041, 8–19–69, Cl. D74—10.
Laurini, Zane P., to Frank Holister Co., Inc. Concrete reinforcing bar support. 214,418, 6–17–69, Cl. D81—235.
Lauterbach, Norman E., to Sybron Corp. Surgical lamp or the like. 214,188, 5–20–69, Cl. D48—20.
Lautin, Leon. Luggage handle or similar article. 215,812, 11–4–69, Cl. D8—154.
Lavin, Benjamin B., P. B. Dixson, and R. G. Hammond, to Sugardale Foods, Inc. Display panel for foods or the like. 214,471, 6–17–69, Cl. D80—1.
La Viola, Aurelio: *See*—
Crotti, Renato, and La Viola. 213,651.
Lawrence, James F. Combined UHF, VHF and color television receiving antenna. 213,628, 3–25–69, Cl. D26—14.
Lawry's Foods, Inc.: *See*—
Bright, John K. 214,876.
Laws, Ira G., to Seismograph Service Corp. Combined storage container and voting enclosure. 215,633, 10–14–69, Cl. D87—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,079, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,080, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,081, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,082, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,083, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,084, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,085, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,086, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,087, 11–25–69, Cl. D9—1.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,089, 11–25–69, Cl. D9—100.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,090, 11–25–69, Cl. D9—100.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,091, 11–25–69, Cl. D9—100.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,092, 11–25–69, Cl. D9—100.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,093, 11–25–69, Cl. D9—100.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,094, 11–25–69, Cl. D9—140.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,095, 11–25–69, Cl. D9—140.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,096, 11–25–69, Cl. D9—140.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 216,097, 11–25–69, Cl. D9—140.
Laybourn, Robert J., and L. A. Wilson, to International Business Machines Corp. Adjustable length cartridge for record cards and the like. 213,783, 4–8–69, Cl. D26—5.
Laylon, Harry L., to Sunbeam Corp. Clock. 214,182, 5–20–69, Cl. D42—7.
La Zar, Ralph M.: *See*—
Herbst, Walter B., and La Zar. 213,896.
La Zar, Ralph M., and J. P. Vanderhoef, to Car Tapes, Inc. Speaker housing. 215,853, 11–4–69, Cl. D26—14.
Lazzeroni, Edward J.: *See*—
Thomas, Vitas T., Lovdahl, Lazzeroni, Aiello, and Renquist. 213,803.
Lazzeroni, Edward J., to J. I. Case Co. Garden tractor. 216,011, 11–18–69, Cl. D14—3.
Lea, Melvin A., to Oneida Ltd. Spoon or similar article. 214,203, 5–20–69, Cl. D54—12.
Lea, Melvin A., to Oneida Ltd. Spoon or similar article. 216,047, 11–18–69, Cl. D54—12.
Leader, Judith E. Toy figure. 213,207, 1–14–69, Cl. D34—2.
Lear Siegler, Inc.: *See*—
Klein, Edward. 213,959.
Leary, Donald J., to Owens-Illinois, Inc. Jar. 213,421, 3–4–69, Cl. D9—101.
Leary, Donald J., and D. J. Morgan, to Owens-Illinois, Inc. Jug. 213,260, 1–28–69, Cl. D9—44.
Lebedeff, Leon V. Lipstick display tray. 214,969, 8–12–69, Cl. D80—9.
Lechtenberg, Leo J., and J. R. Harkness, to Briggs & Stratton Corp. Portable internal combustion engine. 213,476, 3–4–69, Cl. D77—1.
Leclabart, Jean, to Societe Anonyme Perma. Apparatus for heating sleeves for permanent waves. 214,903, 8–12–69, Cl. D23—77.
Ledewitz, William, to Warnaco Inc. Plural compartment bottle. 214,549, 7–1–69, Cl. D9—18.
Lee, Alvis A. Automobile hood. 213,291, 2–4–69, Cl. D14—3.
Lee, Donald. Portable power tool for polishing or sanding or the like. 213,761, 4–8–69, Cl. D37—1.
Lee, Gerald W.: *See*—
Slee, Maxie E., Johnson, Lee, and Cammack. 216,235.
Lee, Humphrey A., to Coronado Mfg. Co. Recreational vehicle light. 216,150, 11–25–69, Cl. D48—32.
Lee, James H., to Dymo Industries, Inc. Tape embossing tool. 213,339, 2–18–69, Cl. D64—10.
Lee, Stephen A. Kitchen tongs. 213,990, 4–29–69, Cl. D44—4.
Lefebure Corp.: *See*—
Higgins, Eldon C. 213,143.
Leggat, Gary G. Game board. 213,211, 1–14–69, Cl. D34—5.
Leggitt, S. H., Co.: *See*—
Huling, Robert G. 215,214.
Legue, Ronald L.: *See*—
Hackman, Donald J., Hillman, and Legue. 215,407.
Lehman Specialty Co.: *See*—
Roggio, Salvatore, Jr., and R. S. Roggio. 213,845.
Roggio, Salvatore, Jr., and R. S. Roggio. 214,175.
Leistikow, Gerard K., to Hamilton Cosco, Inc. Vanity chair. 213,683, 4–1–69, Cl. D15—1.
Leistikow, Gerard K., to Hamilton Cosco, Inc. Vanity bench. 213,872, 4–22–69, Cl. D15—8.
Leisure Industries: *See*—
Tierney, Bernard C. 215,505.
Lemming, John H., Jr. Portable radio direction finder. 213,701, 4–1–69, Cl. D26—14.
Lenhart, John E., to Purex Corp., Ltd. Container for liquids. 213,949, 4–29–69, Cl. D9—175.
Lennon, Carole A., to Tarnreed Ltd. Hair curler attachment. 215,906, 11–4–69, Cl. D86—10.
Lennox Industries Inc.: *See*—
Winegardner, John B. 213,249.
Leon, Brandt Inc.: *See*—
Brandt, Steven C. 215,292.
Leonard, Theo M. Game board. 214,385, 6–10–69, Cl. D34—5.
Leonard, Woodrow J. Adjustable wig stand. 215,043, 8–19–69, Cl. D80—8.
Leopoldi, Norbert. Tongue-depressor dispenser. 213,723, 4–1–69, Cl. D52—2.
Le Phare S.A.: *See*—
Casorati, Pierre L. 213,462.
Leprince, Bernard. Work desk for a beautician. 214,632, 7–8–69, Cl. D33—7.
Lerner Mfg. Co., Inc.: *See*—
Lerner, Robert Z. 213,759.
Lerner, Robert Z., to Lerner Mfg. Co., Inc. Sewing tray. 213,759. 4–8–69, Cl. D3—19.
Le Rose, John T. Step bodied automobile. 215,150, 9–9–69, Cl. D14—3.
Le Rose, John T. Vehicle. 215,832, 11–4–69, Cl. D14—3.
Leroy, Marcel, to Stenotype Grandjean, Societe Anonyme. Stenotype machine. 215,246, 9–16–69, Cl. D64—11.
Lescure, Henri. Deep fryer. 216,323, 12–16–69, Cl. D44—1.
Lesney Products & Co., Ltd.: *See*—
Smith, Leslie C. 215,901.

Letherland, Harry: *See*—
Gordon, John M., and Letherland. 213,606.
Gordon, John M., Letherland, and Karen. 214,820.
Le Vaggi, Gloria, to Cable Electric Products, Inc. Lenticular shade for a night light. 216,327, 12–16–69, Cl. D48—20.
Lever Bros. Co.: *See*—
Thomson, Ernest F. 215,700.
Levey, Jack H. Dental cabinet. 216,312, 12–16–69, Cl. D24—1.
Levin, Monte, to R. Baer, d.b.a. Progressus Co. Ice cream spade. 213,991, 4–29–69, Cl. D44—29.
Levin, Monte L.: *See*—
Katzman, Lawrence, Briggin, and Levin. 214,563.
Katzman, Lawrance, Briggin, and Levin. 215,845.
Levin, Monte L., to General Time Corp. Clock casing. 213,456, 3–4–69, Cl. D42—7.
Levin, Monte L., to R. M. Bloom. Portable dictating machine. 213,965, 4–29–69, Cl. D26—14.
Levin, Monte L., to Aquariums Inc. Aquarium air pump. 214,961, 8–12–69, Cl. D65—1.
Levin, Monte L., to Aquariums Inc. Aquarium air pump. 214,962, 8–12–69, Cl. D65—1.
Levin, Monte L., to Dynamics Corp. of America. Blender base. 215,569, 10–7–69, Cl. D89—1.
Levin, Monte L., to Dynamics Corp. of America. Blender jar. 215,570, 10–7–69, Cl. D89—1.
Levin, Monte L., to Aquariums Inc. Aquarium air pump. 215,765, 10–28–69, Cl. D65—1.
Levin, Monte L., to General Time Corp. Metronome casing. 216,036, 11–18–69, Cl. D42—7.
Levin, Monte L., to Dynamics Corp. of America. Blender base. 216,237, 12–2–69, Cl. D89—1.
Levin, Monte L., and S. Bernstein, to Dynamics Corp. of America, Waring Products Division. Combined cosmetics blender ingredient holders and stand therefor. 216,170, 11–25–69, Cl. D86—10.
Levine, Rosyln C. Container for storing lipsticks or the like. 214,224, 5–20–69, Cl. D86—10.
Levow, Lawrence, to Harman-Kardon, Inc. Loud speaker enclosure. 215,007, 8–19–69, Cl. D26—14.
Levow, Lawrence, to Harmon-Kardon, Inc. Combined phonograph and radio or similar article. 215,496, 9–30–69, Cl. D56—4.
Levow, Lawrence, to Harman-Kardon, Inc. Tape cassette deck. 215,725. 10–28–69, Cl. D26—14.
Levy, Donald M. Record display rack. 213,407, 2–25–69, Cl. D80—9.
Lewis, Dan, Jr., W. H. Palmer, and N. W. Walkup, to National Distillers and Chemical Corp. Bottle. 214,422, 6–17–69, Cl. D9—46.
Lewis, Richard L., to Ralston Purina Co. Combined cooking, display, refrigeration and storage unit. 213,477, 3–4–69, Cl. D81—10.
Libby, Erin: *See*—
Colwell, Guy J., Libby, Shireman, and Weissman. 215,234.
Colwell, Guy J., Libby, Shireman, and Weissman. 215,334.
Libby, Erin, to Mattel, Inc. Combined finger ring and doll. 215,332, 9–23–69, Cl. D45—10.
Liberatore, Frank V. Confection. 215,399, 9–30–69, Cl. D1—22.
Librande, Donald. Badge. 213,881, 4–22–69, Cl. D29—6.
Lieberman, Efraim. Lather applicator for shaving cream. 214,016, 5–6–69, Cl. D4—19.
Lighting Corp. of America: *See*—
Friedman, Julius, and Wellhofer. 214,751.
Lighting Products, Inc.: *See*—
Folger, William A. 215,257.
Lightolier Inc.: *See*—
Muller, Henry P. 213,902.
Lilli Ann Corp.: *See*—
Carew, Arthur. 213,608.
Carew, Arthur. 214,010.
Giannoulis, Cosmas C. 213,609.
Giannoulis, Cosmas C. 213,610.
Limb, Alan V. Model airplane. 214,803, 7–29–69, Cl. D34—15.
Linacre, Thomas C.: *See*—
Carlson, Arthur W., and Linacre. 215,281.
Lincoln Italiana Industria Ettromecanica S.r.l.: *See*—
Croci, Giovanni. 215,611.
Lincoln Metal Products Corp.: *See*—
Solomon, Jack. 213,716.
Linden, Harold D.: *See*—
Rivera, Benigno A. 216,122.
Lindsay, James R.: *See*—
Hanson, Thomas E., and Lindsay. 215,680.
Lingle, Odin D.: *See*—
Miles, John K., and Lingle. 214,289.
Linke, Henry. Scrubber. 215,876, 11–4–69, Cl. D49—22.
Linn, James L., Jr., to Owens-Illinois, Inc. Bottle. 213,423, 3–4–69, Cl. D9—137.
Linn, James L., Jr., to Owens-Illinois, Inc. Bottle. 214,423. 6–17–69, Cl. D9—92.
Linn, James L., Jr., to Owens-Illinois, Inc. Bottle. 214,966, 8–12–69, Cl. D9—112.
Linne, Burton. Cabinet for a moving target display. 214,456, 6–17–69, Cl. D34—5.
Lino Engineering, Inc.: *See*—
Burys, Linas. 214,790.
Lioon Business Systems, Inc.: *See*—
Otto, Carl L. 214,346.
Lipko, John and N. Litter receptacle. 216,372, 12–23–69, Cl. D49—35.
Lipko, Nicholas: *See*—
Lipko, John and N. 216,372.
Litman, Alan L., and D. K. Hackbarth, to Bangor Punta Operations, Inc. Non-lethal weapon producing a liquid spray. 215,934, 11–11–69, Cl. D22—3.
Litner, Philip, to Curtis-Electro Lighting, Inc. Vanity case. 213,240, 1–14–69, Cl. D86—10.
Lit-Ning Products Co.: *See*—
Aydelotte, Virgil E. 215,897.
Litschi, Gerold: *See*—
Miller, Wesley W., Greenlee, Hagerty, and Litschi. 216,377.
Little, James B. Wig styling tray. 215,907, 11–4–69, Cl. D86—10.
Littleton, Louis A. Dusting mop head. 213,217, 1–14–69, Cl. D49—21.
Littmann, David: *See*—
Machlup, Gustav F., and Littmann. 214,002.
Littmann, David, to Minnesota Mining and Mfg. Co. Stethoscope chestpiece. 213,257, 1–21–69, Cl. D83—12.
Litton Precision Products, Inc.: *See*—
Graff, David F., and Hagberg. 215,513.
Mango, Joseph R. 215,126.
Mango, Joseph R., Hendricks, and Collins. 216,167.
Valles, Benjamin V. 215,298.
Ljungberg, Bo L. Ashtray. 213,935, 4–22–69, Cl. D85—2.
Lloyd's Electronics International: *See*—
Araki, Minoru. 214,081.
Locke, Frank K., to Stearns Mfg. Co., Inc. Pilaster building block. 215,714, 10–28–69, Cl. D18—2.
Lockhart, Andrew P., and E. M. Hubbard, to Carthage Cup Co. Cup. 213,173, 1–14–69, Cl. D9—220.
Lockwood, Earle E. Convertible rocker and bed unit. 214,835, 8–5–69, Cl. D15—11.
Lodding, William F.: *See*—
Bielicki, John J., and Lodding. 213,768.
Loesch, Charles L.: *See*—
Bargetzi, Fred H., Heinlein, and Loesch. 214,629.
Loewy, Raymond. Clothes bureau. 216,131, 11–25–69, Cl. D33—6.
Lofgren, Clark L., to The Cornelius Co. Rotatable sign or similar article. 216,182, 11–25–69, Cl. D96—12.
Lofgren, Lavinia G. Child's one-piece garment. 215,642, 10–21–69, Cl. D2—33.
Logan, Charles H.: *See*—
Poor, John H., and Logan. 215,543.
Logistics Industries Inc.: *See*—
Ringlen, Arthur G. 214,022.
Lombardo, Samuel. Golf putter. 216,029, 11–18–69, Cl. D34—5.
Lomont, Max M., and E. F. Thomson. Cruet. 214,831, 8–5–69, Cl. D9—137.
London Winery Ltd.: *See*—
Knowles, Arthur N., and Jolly. 213,259.
Knowles, Arthur N., and Cino. 213,263.
Northgrave, Franklin D., and Knowles. 214,304.
Northgrave, Franklin D., and Knowles. 214,306.
Lorenz, Francis E., Jr. Combined washer and wiper unit. 213,721, 4–1–69, Cl. D49—21.
Lorenzana, Moises B., to Sunbeam Corp. End cap for an electric pressing iron handle. 213,905, 4–22–69, Cl. D49—6.
Lortenberry, George O. Air hammer tool piece. 213,858, 4–22–69, Cl. D8—70.
Loturco, Raymond A.: *See*—
Warren, Robert L., and Loturco. 215,160.
Louis, John F. Combined radio cabinet and toilet paper holder. 214,839, 8–5–69, Cl. D33—31.
Lovdahl, Robert A.: *See*—
Thomas, Vitas T., and Lovdahl. 213,998.
Thomas, Vitas T., and Lovdahl. 214,528.
Thomas, Vitas T., Lovdahl, Lazzeroni, Aiello, and Renquist. 213,803.
Love, Jon T., ½ to A. F. Manser. Soap holder. 216,368, 12–23–69, Cl. D33—25.
Lovitz, David D., to Sternco Industries, Inc. Aquarium. 214,630, 7–8–69, Cl. D30—6.
Lovitz, David D., to Sternco Industries, Inc. Fish breeding tank. 214,916, 8–12–69, Cl. D30—9.
Lovitz, David D., to Sternco Industries, Inc. Aquarium breeder tank with hanger means. 214,917, 8–12–69, Cl. D30—12.
Lowry, Alan B., to Data Packaging Corp. Reel. 215,850, 11–4–69, Cl. D26—14.
Lube Devices, Inc.: *See*—
Lukas, Gus J., and Bydalek. 213,726.
Luby, Frank E. Lamp base. 216,041, 11–18–69, Cl. D48—20.
Lucey, Marilyn, to Hosbro Industries, Inc. Hair dryer. 216,195. 12–2–69, Cl. D23—77.
Luedtke, Eugene R., to Hankscraft Co. Facial vaporizer. 213,560. 3–18–69, Cl. D23—148.
Luedtke, Eugene R., to Hankscraft Co. Bottle. 213,824, 4–15–69. Cl. D9—129.
Luedtke, Warren J., to S. C. Johnson & Son, Inc. Bottle. 215,049, 8–26–69, Cl. D9—40.
Luedtke, Warren J., to S. C. Johnson & Son, Inc. Bottle. 215,084, 9–2–69, Cl. D9—44.
Lukas, Gus J., and F. J. Bydalek, to Lube Devices, Inc. Liquid gauge with multiple side sight openings. 213,726, 4–1–69, Cl. D52—6.
Lumidor Products Corp.: *See*—
Potruch, Robert A. 213,962.
Lund, Bryant D. Voltage regulator. 214,510, 6–24–69, Cl. D26—1.

Luviano, John J., to Crown Cork & Seal Co., Inc. Combined can end and tear strip opener. 214,126, 5–13–69, Cl. D9—255.
Lyman, George, and A. Gelardi, to The Morningstar Corp. Container for memory discs. 213,535, 3–11–69, Cl. D87—1.
Lynn, Clifford W., : *See*—
Lynn, Homer S. and C. W. 214,415.
Lynn, Homer S. and C. W. Knife. 214,415, 6–10–69, Cl. D95—3.
Lyon, Goodwin. Exercising device. 213,889, 4–22–69, Cl. D34—5.
Lyons, Leo J. Automotive vehicle. 213,681, 4–1–69, Cl. D14—3.
Lysaght, John R., to Brunswick Corp. Golf club head. 215,608, 10–14–69, Cl. D34—5.
M & B Metal Products Co.: *See*—
Brekle, Oliver R. 214,967.
M. T. & D. Co.: *See*—
Musichuk, Alexander B. 213,121.
Maatschappij van Berkel's Patent N.V.: *See*—
Nouwen, Gerbrand G. 214,953.
Maben, Florabel. Combination container for a pill and water. 216,000, 11–18–69, Cl. D9—169.
Mabuchi, Takaichi, to Tokyo Kagaku Kabushikikaisha. Electric motor or similar article. 213,563, 3–18–69, Cl. D26—5.
Mac Corp.: *See*—
Kobayashi, Tatsuo. 216,180.
MacCotter, Hugh J. Pipe locator device. 215,618, 10–14–69, Cl. D52—6.
MacDonald, John: *See*—
Hoxie, Orville D., and MacDonald. 213,630.
MacDonald, John G.: *See*—
Kagen, David F., and MacDonald. 214,271.
MacDonald, Joseph R. and W. A. Attachment for a paint container. 215,417, 9–30–69, Cl. D9—289.
MacDonald, Winfred A.: *See*—
MacDonald, Joseph R. and W. A. 215,417.
Machlup, Gustav F., and D. Littmann, to Minnesota Mining and Mfg. Co. Stethoscope head. 214,002, 4–29–69, Cl. D83—12.
Mack, Joseph. Multiple projectile shooting toy. 213,452, 3–4–69, Cl. D34—15.
MacKeeby, Winfield R. Combined can opener and closure remover for bottles and jars. 213,844, 4–15–69, Cl. D44—29.
Mackey, William E. Ear muffs. 215,138, 9–9–69, Cl. D2—259.
MacLachlan, William B., J. A. Aherne, and R. E. Morgan, to Bristol-Myers Co. Starter dosage card. 215,649, 10–21–69, Cl. D9—187.
Macowski, William, to Ketcham & McDougall, Inc. Telephone index or the like. 213 301, 2–4–69, Cl. D74—1.
Macowski, William, to Ketcham & McDougal, Inc. Scale. 214,-464, 6–17–69, Cl. D52—10.
MacPhee, John, to Corning Glass Works. Ion sensing electrode or the like. 215,563, 10–7–69, Cl. D52—6.
MacPhee, John, to Corning Glass Works. Ion sensing electrode or the like. 215,564, 10–7–69, Cl. D52—6.
Maddox, James W. Athletic game paddle. 216,135, 11–25–69, Cl. D34—5.
Maddox, James W. Athletic game paddle. 216,136, 11–25–69, Cl. D34—5.
Mader, Robert J. Golf putter. 213,120, 1–7–69, Cl. D34—5.
Madison Chemical Corp.: *See*—
Ancel, Selwyn. 215,456.
Madl, Alfred W., to John Oster Manufacturing Co. Hair clipper. 214,414, 6–10–69, Cl. D95—3.
Madl, Alfred W., to John Oster Mfg. Co. Food blender. 214,-227, 5–20–69. Cl. D89—1.
Madl, Alfred W., to John Oster Mfg. Co. Combined can opener and fruit juicer. 216,357, 12–23–69, Cl. D8—34.
Madlem, John R. Sled. 213,711, 4–1–69, Cl. D34—15.
Madsen, John S. Floor tile or similar article. 213,316, 2–18–69. Cl. D18—2.
Maeda Iron Works Co., Ltd.: *See*—
Ozaki, Nobuo. 215,044.
Magi, Hugo, to Dominion Auto Accessories Limited. Auxiliary vehicle lamp housing. 214,394, 6–10–69, Cl. D48—32.
Magi, Hugo, to Dominion Auto Accessories Limited. Auxiliary vehicle lamp. 214,395, 6–10–69, Cl. D48—32.
Magi, Hugo, and J. Smith, to Aqua-Marine Mfg. Ltd. Bow light for a boat. 216,222, 12–2–69, Cl. D48—32.
Magrath, Joseph M. Combined aspiration and respiration apparatus. 215,127, 9–2–69, Cl. D88—1.
Mair, Francis M., to St. Regis Paper Co. Plate. 215,330, 9–23–69, Cl. D44—15.
Majestic Co., Inc., The: *See*—
Winegardner, Donald E. 213,960.
Majestic Tile Co.: *See*—
Bachner, George L. 218,687.
Majesty, Jerome A., to The Perkin-Elmer Corp. Data printer. 215,676, 10–21–69, Cl. D64—11.
Majewski, Eugene J. Storage container for vehicles. 215,632, 10–14–69, Cl. D87—1.
Makris, Aristides, to The B. F. Goodrich Co. Tire. 214,773, 7–22–69, Cl. D90—20.
Makris, Aristides, and C. C. Woodring. Tire. 216,063, 11–18–69, Cl. D90—20.
Malakoff, Irving. Holder for a plate and beverage cup or the like. 214,641, 7–8–69, Cl. D44—29.
Maley, Joseph E. Attachment pedal for electric, spinet-type organs. 214,465, 6–17–69, Cl. D56—2.
Mallon, Robert C.: *See*—
Jacobs, Karel, Gugliotta, Bradley, Wallace, and Mallon. 215,302.
Mallory, P. R., & Co., Inc.: *See*—
Dailey, Donald E. 214,732.
Malone, James E. Glass door locking bar. 214,870, 8–12–69, Cl. D8—203.
Mamet, Alfred: *See*—
Dietrich, Gerhard, and Mamet. 213,231.
Mandelbaum, Leon: *See*—
Cohen, Samuel W., and Mandelbaum. 213,918.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 215,027, 8–19–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 215,121, 9–2–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 216,045, 11–18–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. article. 216,046, 11–18–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 215,964, 11–11–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 215,965, 11–11–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 215,966, 11–11–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 215,967, 11–11–69, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 216,330, 12–16–69, Cl. D54—12.
Mango, Joseph R.: *See*—
Clarke, George C., Mango, and Goodman. 213,682.
Mango, Joseph R., to Litton Precision Products, Inc. Microwave oven. 215,126, 9–2–69, Cl. D81—4.
Mango, Joseph, to Beauti-Dor, Inc. Bath enclosure doors. 216,392, 12–30–69, Cl. D23—69.
Mango, Joseph R., D. B. Hendricks, and E. S. Collins, Jr., to Litton Precision Products, Inc. Microwave oven. 216,167, 11–25–69, Cl. D81—20.
Mangold, Raymond J., and C. S. Myers, to Continental Mfg. Co. Trash receptacle or the like. 215,344, 9–23–69, Cl. D49—30.
Mangold, Raymond J., and C. S. Myers, to Continental Mfg. Co. Trash receptacle or the like. 215,345, 9–23–69, Cl. D49—30.
Mangold, Raymond J., and C. S. Myers, to Continental Mfg. Co. Trash receptacle or the like. 215,347, 9–23–69, Cl. D49—35.
Mann, Samuel J., to Salton, Inc. Egg cooker. 216,213. 12–2–69, Cl. D44—1.
Mann, William T. Fishing lure. 214,044, 5–6–69, Cl. D22—27.
Mansei Kogyo Kabushiki Kaisha: *See*—
Goto, Kenjiro. 213,995.
Goto, Kenjiro. 215,116.
Goto, Kenjiro. 215,176.
Goto, Kenjiro. 215,177.
Goto, Kenjiro. 215,342.
Manser, Alfred F.: *See*—
Love, Jon T. 216,368.
Mantell, Otto B. Garment hanger. 213,405, 2–25–69, Cl. D80—8.
Manville, George D. Sill clamp. 213,802, 4–8–69, Cl. D54—1.
Marcin, Joseph J., to Spanjer Brothers, Inc. Font of letters for signs. 213,413, 2–25–69, Cl. D96—12.
Marder, Ira. Illuminable mirror. 213,480, 3–4–69, Cl. D86—10.
Marg, Charles M. Rifle butt holder. 214,442, 6–17–69, Cl. D22—13.
Margolies, Charles R., to Glamorene Products Corp. Carrying case for a cleaning appliance. 213,603, 3–18–69, Cl. D87—1.
Marine Swimming Pool Equipment Co.: *See*—
Bellinson, Bernard, and Young. 215,706.
Marino, Rocco E. Restaurant building. 216,104, 11–25–69, Cl. D13—1.
Mariol, James F., to Vernco Corp. Vacuum cleaner. 213,640, 3–25–69, Cl. D49—14.1.
Mariol, James F., to Vernco Corp. Vacuum sweeper. 213,641, 3–25–69, Cl. D49—14.1.
Maris, David B. Garbage can dolly. 214,491, 6–24–69, Cl. D14—3.
Maris, David B. Combination twin refuse receptacle unit and utility cart therefor. 214,644, 7–8–69, Cl. D49—32.
Mark VII Industries, Inc.: *See*—
Braund, Gordon L. 214,771.
Markert, Herman R., to Sonoco Products Co. End closure for a container. 215,087, 9–2–69, Cl. D9—255.
Markert, Herman R., to Sonoco Products Co. Pull tab. 215,144, 9–9–69. Cl. D9—256.
Market Masters, Inc.: *See*—
Reibold, Elmer L., Timpe, and Trivellini. 214,352.
Marks, Lou F., to Bruce Molded Plastic Products Inc. Luggage handle. 216,076, 11–25–69, Cl. D8—154.
Marks, Philip, to Advertising Display Corp. Display stand. 215,772. 10–28–69. Cl. D80—9.
Marks, Robert G. Tool storage cabinet or the like. 215,310, 9–23–69, Cl. D33—19.
Markusen, Thomas R. Three dimensional puzzle. 215,949, 11–11–69, Cl. D34—15.
Marlin Toy Products, Inc.: *See*—
Lakin, Willis M. 213,122.
Marlowe, Robert L. Tire. 213,749, 4–1–69, Cl. D90—20.
Marrelli, Charles N., to The Drackett Co. Display stand for mops and brooms. 215,512, 9–30–69, Cl. D80—9.
Marselli, Daniel S. Rack for collets or the like. 215,012, 8–19–69, Cl. D33—17.
Marsh, David M. Bottle covering. 215,922, 11–11–69, Cl. D9—250.

Marsh, William J.: *See*—
Gruver, Floyd O., Jr., and Marsh. 216,233.
Marshall, Wilburt. Toy airplane. 213,985, 4–29–69, Cl. D34—15.
Martin, Denzil O. Cover for fry pans or the like. 214,932, 8–12–69, Cl. D44—1.
Martin, Greenleaf B., to Towle Mfg. Co. Fork or similar article of flatware. 215,024, 8–19–69, Cl. D54—12.
Martin, James: *See*—
Munson, Austin H., Grawoig, and Martin. 214,905.
Martin, John C., to Bunn-O-Matic Corp. Pour in type beverage maker. 214,480, 6–17–69, Cl. D94—3.
Martin, Jurt, and P. Steiner, to R. Nussbaum & Co. AG. Multiple outlet faucet. 213,193, 1–14–69, Cl. D23—25.
Martin, Richard C., and R. L. Carlson, Jr., to Ute Mountain Corp. Inflatable tent. 216,352, 12–16–69, Cl. D88—3.
Martinez, Eugene, ½ to R. H. Reibel. Projector for filmstrip or other image bearing transparency. 215,036, 8–19–69, Cl. D61—1.
Marue, Edward. Pitcher. 213,796, 4–8–69, Cl. D44—21.
Marx, Louis, & Co., Inc.: *See*—
Buseck, Clement C., and Bonnett. 213,984.
Campbell, Laurie J. 214,065.
Campbell, Laurie J. 215,167.
Campbell, Laurie J. 215,862.
Campbell, Laurie J. 216,209.
Cook, Calvin C. 215,861.
Cook, Calvin C. 215,948.
Fusco, Frank C., and N. C. and W. Gold. 216,339.
Hirsch, Mahlon E. 216,308.
Maslow, Louis. Adjustable shelving unit. 215,773, 10–28–69, Cl. D80—10.
Mason, John W., to Faultless Starch Co. Spray wand. 214,048, 5–6–69, Cl. D23—15.
Masonite Corp.: *See*—
Strom, Carl U. 215,502.
Mathisen, Oscar H. Indentor tool. 214,646, 7–8–69, Cl. D54—13.
Matsuo, Takashi. Packing bag. 214,308, 6–3–69, Cl. D9—251.
Matsuo, Takashi. Packing bag. 214,309, 6–3–69, Cl. D9—251.
Matsuoka, James T., to Stewart Boiling & Co., Inc. Rubber mill frame. 213,138, 1–7–69, Cl. D55—1.
Matsushita Electric Industrial Co., Ltd.: *See*—
Mizuno, Kohji, and Kajiwara. 215,379.
Ohta, Kikuo. 214,696.
Mattel, Inc.: *See*—
Arato, Paul T., and Holland. 215,951.
Colwell, Guy J., Libby, Shireman, and Weissman. 215,234.
Colwell, Guy J., Libby, Shireman, and Weissman. 215,334.
Lambert, Gerard L., Maurer, Meggs, Renner, and Starner. 213,327.
Libby, Erin. 215,832.
Maurer, Donald J.: *See*—
Lambert, Gerard L., Maurer, Meggs, Renner, and Starner. 213,327.
Maxey, Clarence: *See*—
Walters, William C., and Maxey. 216,163.
Walters, William C., and Maxey. 216,164.
Walters, William C., and Maxey. 216,165.
Maxwell, Guy F. Rigid back pack. 214,476, 6–17–69, Cl. D87—5.
Maxwell, Hiram M. Tree holder. 214,330, 6–3–69, Cl. D35—1.
Maxwell, Hiram M. Tree support. 215,742, 10–28–69, Cl. D35—1.
Maxwell, Hiram M. Guy anchor. 215,743, 10–28–69, Cl. D35—1.
Maxwell, Richard L., to J. L. Prescott Co. Mobile. 213,212, 1–14–69, Cl. D34—15.
May-Fran Mfg. Co.: *See*—
Ziegler, Harry E. 214,094.
Ziegler, Harry E. 214,209.
Mayer, Frank W. Snowmobile transportation dolly. 213,679, 4–1–69, Cl. D14—3.
Mayer, Oscar, & Co., Inc.: *See*—
Swartz, Robert L. 214,219.
Mayfield, Harrison B. Chain link fence-making machine or the like. 214,136, 5–13–69, Cl. D55—1.
Mayhew, Donald J. Antenna spinner. 213,970, 4–29–69, Cl. D29—1.
Mayland, James H. Flexible transmission coupling for three-wheeled vehicle. 215,183, 9–9–69, Cl. D55—1.
Maynard, William R., Jr.: *See*—
Bewyer, Ronnal L., and Maynard. 215,148.
Bewyer, Ronnal L., and Maynard. 215,149.
Maynard, William R., Jr. Extruded seal. 215,831, 11–4–69, Cl. D13—6.
Maytag Co., The: *See*—
Swartz, William J. 214,193.
Mazeika, Albert, to Milton Mfg. Co., Inc. Clip for automotive sparkplug, distributor, or capacitor. 214,527, 6–24–69, Cl. D54—1.
Mazur, Harry E. Camera. 215,184, 9–9–69, Cl. D61—1.
McAllister, Raymond O. Golf putter. 213,838, 4–15–69, Cl. D34—5.
McBain, Francis W. Display stand. 213,150, 1–7–69, Cl. D80—9.
McBride, William J. Swimming pool. 213,771, 4–8–69, Cl. D13—1.
McCabe, Francis J. Door. 213,547, 3–18–69, Cl. D13—1.
Holmes, Frank A., and McCain. 214,867.
Holmes, Frank A., and McCain. 214,868.
Holmes, Frank A., and McCain. 214,869.
McCain, Lawrence: *See*—
Holmes, Frank A., and McCain. 215,538.
Holmes, Frank A., and McCain. 215,815.
Holmes, Frank A., and McCain. 215,816.
Holmes, Frank A., and McCain. 216,077.
McCarthy, Donald J., to The Jacobs Mfg. Co. Chuck. 213,223, 1–14–69, Cl. D54—14.
McCarty, Donald, A. B. Johnson, M. A. Cammack, J. W. Mattingly, J. M. Trenary, and H. A. Jeffers, Jr., to Aqua Tec Corp. Power unit for motor driven toothbrush. 215,920, 11–11–69, Cl. D4—15.
McClaren, Cecil L. Combination electric cooker and support stand therefor for broiling and barbecuing food. 215,250, 9–16–69, Cl. D81—10.
McClure, Delmar H. Cart. 213,360, 2–25–69, Cl. D14—3.
McConnell, Paul H., to United States Borax & Chemical Corp. Dispenser cap. 214,263, 5–27–69, Cl. D9—267.
McCord, Wilfred M., to Vermont American Corp. Body for file frame or the like. 213,893, 4–22–69, Cl. D37—1.
McCord, Wilfred M., Jr., to Vermont American Corp. Adjustable handle file frame or the like. 213,894, 4–22–69, Cl. D37—1.
McCord, Wilfred M., Jr., to Vermont American Corp. Adjustable handle file frame or the like. 213,895, 4–22–69, Cl. D37—1.
McCoy, Roy. Tool for installing or removing dual truck wheels. 215,997, 11–18–69, Cl. D8—31.
McCracken, Roger L.: *See*—
Huggins, Richard L., and McCracken. 213,594.
McCreary, Edward W., J. H. Tindall, and J. C. Hood, to Diamond Donut, Inc. Building. 215,540, 10–7–69, Cl. D13—1.
McCue, Daniel E., to Rival Mfg. Co. Electric ice crusher. 213,160, 1–7–69, Cl. D89—1.
McCue, Daniel E., to Rival Mfg. Co. Combined electric can opener and knife sharpener. 214,775, 7–29–69, Cl. D8—35.
McCulloch Corp.: *See*—
Burkett, Wilford B., Carsello, and Hazzard. 213,939.
McDonald's Corp.: *See*—
Schier, Jacques. 216,006.
McDonnell Douglas Corp.: *See*—
Cathers, Richard T., and Morris. 214,597.
McDonough Power Equipment, Inc.: *See*—
Smith, William R., and Hanson. 213,125.
Smith, William R., and Hanson. 213,328.
McFarland, Norman T., to Marvin Glass & Associates. Illuminable desk set. 214,296, 5–27–69. Cl. D74—5.
McFarland, Norman T., to Marvin Glass & Associates. Illuminable desk set. 214,349, 6–3–69. Cl. D74—5.
McGee, Porter G., to Kut Kleen Kutter Corp. Food slicer. 215,390, 9–23–69, Cl. D89—1.
McGill Mfg. Co., Inc.: *See*—
Gallup, Robert L. 216,395.
McGrath-Hamin, Inc.: *See*—
Hamin, Irwin B. 216,220.
McGraw-Edison Co.: *See*—
Clark, Philip B., and Curtin. 213,393.
Congdon, George L. 215,265.
McGuffey, James W., to Tranter Mfg., Inc. Heat exchange unit. 213,105, 1–7–69, Cl. D23—72.
McGuire, John W., to Baker Brush Co., Inc. Paint brush handle or the like. 216,247, 12–9–69, Cl. D4—38.
McHardy, Kenneth R.: *See*—
Oltman, Roland O., and McHardy. 214,554.
McIlroy, Robert E., to J. T. Baker Chemical Co. Dispensing bottle for chemical reagents or the like. 216,362, 12–23–69, Cl. D9—131.
McKay Machine Co., The: *See*—
Williams, Arthur L. 214,447.
Williams, Arthur L. 214,448.
McKay, Robert C.: *See*—
Peterson, Glen R., Jr., and McWay. 215,887.
McLain, Philippe H., to Soo Valley Co., Inc. Thread canister. 215,913, 11–4–69, Cl. D92—15.
McMurray, Herman J. Livestock ear tag clamp holding and closing pliers. 215,349, 9–23–69, Cl. D54—13.
McNeil Corp.: *See*—
Dehn, Roy F. 214,091.
McPhee, John, to Corning Glass Works. Ion sensing electrode or the like. 214,755, 7–22–69, Cl. D52—6.
McQueen, Philip J., to J. H. Pomeroy & Co., Inc. Crosstie. 215,073, 8–26–69, Cl. D66—3.
Mead Johnson & Co.: *See*—
Barton, Raymond W., and Claybaugh. 215,253.
Bryan, Hugh D. 213,873.
Mead, Peter: *See*—
Stone, Frank G. 213,163.
Stone, Frank G. 214,610.
Stone, Frank G. 214,611.
Mead-Suydam Co.: *See*—
Combs, John M. 215,900.
Meadows, Damon G., to Bata Shoe Co., Inc. Sole for footwear. 213,415, 3–4–69, Cl. D2—320.
Meek, George W. Spray nozzle. 215,286, 9–23–69, Cl. D23—34.
Means, F. W., & Co.: *See*—
Glass, Henry P. 215,560.
Measell, Richard A. Combined salt and pepper shaker. 216,039, 11–18–69, Cl. D44—22.
Mehl, Ross M., to Plato Products Inc. Device for cleaning soldering iron tips. 213,585, 3–18–69, Cl. D49—9.
Meiluta, James C. Gear shift handle. 214,786, 7–29–69, Cl. D14—6.

Meisenzahl, Richard C.: *See*—
Halaby, Samuel A., Jr., and Meisenzahl. 215,437.
Halaby, Samuel A., Jr., and Meisenzahl. 216,309.
Mejer, Edward L. Building front. 214,489, 6–24–69, Cl. D13—1.
Mellyn, Lawrence P., to General Electric Co. Switch plate for electric switch. 214,990, 8–19–69, Cl. D8—181.
Mellyn, Lawrence P., to General Electric Co. Switch plate for electric switch. 214,991, 8–19–69, Cl. D8—181.
Melrose Displays, Inc.: *See*—
Cohen, Melvin. 214,603.
Meltzer, Jack A. Decorative protective housing for electrical fixture. 214,186, 5–20–69, Cl. D48—16.
Meltzer, Jack A. Decorative protective housing for electrical fixture. 215,171, 9–9–69, Cl. D48—16.
Melvin, William W. Table. 215,735, 10–28–69, Cl. D33—14.
Mendes, William E. Carson Valley Meat Co. Golf club. 214,067, 5–6–69, Cl. D34—5.
Meneses, Robert: *See*—
Terrels, Joseph L., and Meneses. 215,655.
Meng, Joseph A.: *See*—
Jacobs, Karel, Gugliotta, Bradley, and Meng. 215,601.
Menne, Joseph R. Combined table, bench and closet unit or similar article. 215,453, 9–30–69, Cl. D33—14.
Mercer, Norman J., to The Englishtown Corp. Dressing mirror. 213,346, 2–18–69, Cl. D86—10.
Mercure, Legrand J. Block laying tool. 214,588, 7–1–69, Cl. D51—1.
Merino, Alfonso W., to International Business Machines Corp. Combined information recordings and record storage unit. 214,907, 8–12–69, Cl. D26—5.
Merit Clothing Co., Inc.: *See*—
Rigsby, John W. 214,855.
Merlo, Joseph. Chock. 215,325, 9–23–69, Cl. D41—1.
Merrick, Laura: *See*—
Merrick, Robert W. and L. 215,060.
Merrick, Robert W. and L. Ball toss game target. 215,060, 8–26–69, Cl. D34—5.
Merritt, James A., and J. A. Wedin, to Hexcel Corp. Reinforcing boss for ladder construction. 213,134, 1–7–69, Cl. D54—1.
Merser, Francis G., to Dennison Mfg. Co. Fastener for attaching a button. 213,418, 3–4–69, Cl. D2—423.
Merser, Francis G., to Dennison Mfg. Co. Filament for attaching a tag to an article. 214,122, 5–6–69, Cl. D96—1.
Merser, Francis G., to Dennison Mfg. Co. Filament for attaching a tag to an article. 214,123, 5–6–69, Cl. D96—1.
Merser, Francis G., to Dennison Mfg. Co. Filament for attaching a price tag to an article of manufacture. 214,151, 5–13–69, Cl. D96—1.
Merser, Francis G., to Dennison Mfg. Co. Filament for attaching articles together. 214,152, 5–13–69, Cl. D96—1.
Merser, Francis G., to Dennison Mfg. Co. Filament for attaching a price tag to an article of manufacture. 214,153, 5–13–69, Cl. D96—1.
Merser, Francis G., to Dennison Mfg. Co. Filament for attaching a price tag to an article of manufacture. 214,235, 5–20–69, Cl. D96—1.
Meschwitzer, Kurt H. Combination gas burner flame guide and drip catcher. 215,384, 9–23–69, Cl. D81—26.
Mesinger, Robert H. Cycle saddle. 214,546, 6–24–69, Cl. D90—16.
Messinger, Abraham. Heel member for a shoe tree. 215,130, 9–2–69, Cl. D86—10.
Messinger, Abraham. Toe member for a shoe tree. 215,131, 9–2–69, Cl. D86—10.
Metal Design Products, Inc.: *See*—
Braun, Samuel. 213,247.
Metallwaren AG Birrwil: *See*—
Gujer, Henry. 216,328.
Metrotech, Inc.: *See*—
Peterman, Earl J. 215,301.
Mettler, Hal C. Short wave diathermy. 215,385, 9–23–69, Cl. D83—1.
Meyer, Carl X. Lighting fixture. 213,464, 3–4–69, Cl. D48—23.
Meyer, Gustave. Combination toilet seat and ventilator. 215,937, 11–11–69, Cl. D23—71.
Meyers, Edward E., to Taffet Electronics, Inc. Microfilm reader-printer. 214,763, 7–22–69, Cl. D61—1.
Meylan, Rene, to OMEGA Louis Brandt & Frere S.A. Wrist watch case. 215,112, 9–2–69, Cl. D42—8.
Michaels, William H. Hose guide for preventing damage to flower beds and the like. 215,952, 11–11–69, Cl. D35—1.
Mickey, Marion H.: *See*—
Hall, George L., and Mickey. 213,552.
Middlemark, Marvin P. Television antenna for indoor use. 213,700, 4–1–69, Cl. D26—14.
Midland-Ross Corp.: *See*—
Soroos, James P. 213,695.
Mike, Zoltan, to The Armstrong Rubber Co. Tire. 214,479, 6–17–69, Cl. D90—20.
Mike, Zoltan, to The Armstrong Rubber Co. Tire. 215,522, 9–30–69, Cl. D90—20.
Mike, Zoltan, to The Armstrong Rubber Co. Tire. 215,523, 9–30–69, Cl. D90—20.
Mikiya, Toshio, to Nitto Kohki Co., Ltd. Grinding tool. 215,047, 8–26–69, Cl. D8—62.
Miklas, Karl A., to Warwick Electronics Inc. Desk model television receiver or the like. 214,290, 5–27–69, Cl. D56—4.
Milady Brassiere and Corset Co., Inc.: *See*—
Dubner, Harry. 213,947.
Milan, Charles F.: *See*—
Gay, Robert C., and Milan. 214,645.
Milan, Henry J., and W. G. Hauser, to The Singer Co. Sewing machine cabinet or similar article. 213,924, 4–22–69, Cl. D70—2.
Mil-An Mfg. Corp.: *See*—
Howard, Sol, and Schaaf. 213,586.
Miles, John K., and O. D. Lingle, to Arvin Industries, Inc. Clock radio. 214,289, 5–27–69, Cl. D56—4.
Miles, Thomas W. Vertical barbeque unit. 214,655, 7–8–69, Cl. D81—10.
Miley, David W., to General Time Corp. Clock casing. 213,454, 3–4–69, Cl. D42—7.
Miley, David W., to General Time Corp. Clock casing. 213,795, 4–8–69, Cl. D42—7.
Miller, Arthur F.: *See*—
Johnson, Robert T., Miller, and Schwab. 215,504.
Miller Co., The: *See*—
Schiffer, Henry C. 214,079.
Miller, Douglas F Garbage receptacle. 215,616, 10–14–69, Cl. D49—30.
Miller, Harry G. Tie rack. 213,115, 1–7–69, Cl. D33—8.
Miller, Herman, Inc.: *See*—
Protzmann, Peter J. 215,737.
Miller, Jack V.: *See*—
Froelich, Ronald W., and Miller. 215,480.
Miller, James E., to Form, Inc. Pre-cast concrete bench. 215,598, 10–14–69, Cl. D15—11.
Miller, Jesse E. Combination boat fender board and life preserver. 216,228, 12–2–69, Cl. D71—1.
Miller, Lloyd. Denture brush. 213,669, 4–1–69, Cl. D4—28.
Miller, Lyle E.: *See*—
Dreyfuss, Henry, Conner, Borsheim, Miller, and Gilbert. 213,869.
Miller, Marie E.,: *See*—
Poppe, Martin C., Miller, D'Elia, and Stolarz. 214,390.
Miller, Omer E. Combined tank cover and control housing. 215,716, 10–28–69, Cl. D23—41.
Miller, Oscar. Tape dispenser. 215,377, 9–23–69, Cl. D74—1.
Miller, Wesley W., H. T. Greenlee, C. D. Hagerty, and G. Litschi, to W. R. Grace & Co. Photocomposing machine. 216,377, 12–23–69, Cl. D61—1.
Mills Heights, Inc.: *See*—
Mills, Howard D., Jr., and Federico. 214,367.
Mills, Howard D., Jr., and T. A. Federico, to Mills Heights, Inc. Combined office building structure and standpipe. 214,367, 6–10–69, D13—1.
Mills, Iain C., to The Dunlop Co., Ltd. Tire. 214,409, 6–10–69, D90—20.
Mills, Thomas C.: *See*—
Ernest, Robert O., and Mills. 214,180.
Mills, Thomas C., to Samsonite Corp. Roller skate. 214,251, 5–20–69, Cl. D34—14.
Milton Mfg. Co., Inc.: *See*—
Mazeika, Albert. 214,527.
Mimeur, Robert to Ets. Carpano & Pons. Torque meter. 214,851, 8–5–69, Cl. D52—6.
Mine Safety Appliances Co.: *See*—
Bell, Ted A., and Monigle. 213,810.
Protas, Roger I. 214,861.
Mineo, Salvatore C., Jr., to Hunt-Wesson Foods, Inc. Cooking oil accessory rack. 213,993. 4–29–69, Cl. D44—29.
Minnesota Mining and Mfg. Co.: *See*—
Grosso, Raymond A. 216,162.
Littmann, David. 213,257.
Machlup, Gustav F., and Littmann. 214,002.
Schmidt, Roger M. 214,231.
Minnesota Rubber Co.: *See*—
Rentschler, John H. 214,813.
Mishkin, Sidney: *See*—
Bidwell, Robert E., and Mishkin. 215,754.
Mistarz, Marion S. Sole for footwear. 216,246, 12–9–69, Cl. D2—320.
Mitch, Frank M. Tire. 213,751, 4–1–69, Cl. D90—20.
Mitchell, Atherton R., to Renauld International, Ltd. Pair of sunglasses or the like. 214,292, 5–27–69, Cl. D57—1.
Mitchell, Atherton R., to Renauld International, Ltd. Pair of sunglasses or the like. 214,697, 7–15–69, Cl. D57—1.
Mitchell, Atherton R., to Renauld International, Ltd. Spectacle front. 215,761, 10–28–69, Cl. D57—1.
Mitchell, Atherton R., to Renauld International, Ltd. Spectacle front. 215,762, 10–28–69, Cl. D57—1.
Mitchell, Jack L.: *See*—
Fisher, James E., Mitchell, and Wisdom. 215,863.
Mitchell, Leon J. Combined sheet and eyeliners. 215,391, 9–23–69, Cl. D86—10.
Mitchell, Leon J. Compartmented cosmetics container. 216,351, 12–16–69, Cl. D87—10.
Mitchell, William E., to The Dunlop Co. Ltd. Metal wheel. 215,279, 9–23–69, Cl. D14—30.
Mizuno, Kohji, and D. Kajiwara, to Matsushita Electric Industrial Co., Ltd. Electric pencil sharpener. 215,379, 9–23–69, Cl. D74—21.
Mizutani, Takeshi, to Kanamaru Shoten, Ltd. Cigarette lighter. 215,615, 10–14–69, Cl. D48—27.
Mizutani, Takeshi, to Kanamaru Shoten, Ltd. Cigarette lighter. 215,752, 10–28–69, Cl. D48—27.
Moberger, Olga C. Litter box for domestic cats. 214,919, 8–12–69, Cl. D30—41.
Mock, Donald J. Cross. 213,785, 4–8–69, Cl. D29—23.
Mock, Donald J. Cigarette lighter. 214,192, 5–20–69, Cl. D48—27.
Modecraft Co., Inc.: *See*—
Fidel, Nellie. 216,015.

Modutec Inc.: *See*—
Dolan, William S. 215,658.
Moffitt, Marion E.: *See*—
Hunter, Hal C., King, and Moffitt. 216,201.
Mohasco Industries, Inc.: *See*—
Crawford, Allan H. 213,365.
Mohawk Data Sciences Corp.: *See*—
Edwards, James H. and Serra. 214,404.
Mohl, Edward H. Swim suit or similar article. 216,245, 12–9–69, Cl. D2—40.
Mohs, Bruce B. Automobile. 214,998, 8–19–69, Cl. D14—3.
Mole-Richardson (English) Ltd.: *See*—
Thornley, Joseph, and Allwork. 213,334.
Molenaar, Lester V. Building toy. 213,385, 2–25–69, Cl. D34—15.
Molex Products Co.: *See*—
Baumanis, Bruno. 215,548.
Monaco, Foster and R. Food server. 213,898, 4–22–69, Cl. D44—15.
Monaco, Rosario: *See*—
Monaco, Foster and R. 213,898.
Monaghan, J. J., Co., Inc.: *See*—
Best, Cleafe A., Jr. 214,605.
Best, Cleafe A., Jr. 214,606.
Monahon, Richard M. Valve actuator for a pressurized container. 214,616, 7–8–69, Cl. D9—258.
Monarch Luggage Co., Inc.: *See*—
Schramm, Buford J. 213,926.
Mondragon, Ralph. Rocking chair. 215,930, 11–11–69, Cl. D15—6.
Monigle, Glenn W.: *See*—
Bell, Ted A., and Monigle. 213,810.
Monö, Rune G., and G. M. Hellström, to Kalmar Verkstads Aktiebolag. Van body. 216,299, 12–16–69, Cl. D14—3.
Monogram Industries, Inc.: *See*—
Katona, William F. 214,886.
Monogram Models, Inc.: *See*—
Daniel, Eugene T. 213,791.
Monsanto Co.: *See*—
Anderson, David L. 215,411.
Beeman, Everett C., and Fuerst. 213,491.
Beeman, Everett C., and Fuerst. 213,492.
Donovan, Donald W. 215,413.
Gutsche, Henry W., Harris, and Walsh. 215,270.
Hills, David G. 213,091.
Hills, David G. 214,305.
Hills, David G. 214,552.
Hills, David G. 215,410.
Hills, David G. 216,248.
Monson, Wallace A.: *See*—
Pennock, Robert L., Jr., Monson, and Wildgen. 216,378.
Monson, Wallace A., to Honeywell, Inc. Condition control device. 213,336, 2–18–69, Cl. D52—7.
Monson, Wallace A., to Honeywell, Inc. Condition responsive device. 213,798, 4–8–69, Cl. 52—7.
Monson, Wallace A., to Honeywell Inc. Condition control device. 213,909, 4–22–69, Cl. D52—7.
Monson, Wallace A., to Honeywell Inc. Flash lamp mounting unit. 214,213, 5–20–69, Cl. D61—1.
Monson, Wallace A., to Honeywell Inc. Flashgun. 214,214, 5–20–69, Cl. D61—1.
Monson, Wallace A., to Honeywell Inc. Condition responsive device. 214,952, 8–12–69, Cl. D52—7.
Montague, Harrison I. Display rack for leaflets and the like. 216,166, 11–25–69, Cl. D80—9.
Montgomery, Lewis E. Spinning top. 214,746, 7–22–69, Cl. D34—15.
Moodie, Ernest W., to Square D. Co. Panelboard front. 214,380, 6–10–69, Cl. D26—13.
Moody, William B., and D. B. Whitney. Educational toy figure. 216,141, 11–25–69, Cl. D34—15.
Mooneyhan, Roy E., to Sea Island Industries. Watercraft. 213,928, 4–22–69, Cl. D71—1.
Moore, Arthur H., and J. G. Bacevius, to The Bridgeport Metal Goods Mfg. Co. Rechargeable flashlight. 213,584, 3–18–69, Cl. D48—24.
Moore, Donald L., P. M. Fricke, Jr., and R. R. Spilman, to Hamilton Cosco, Inc. Folding chair. 214,267, 5–27–69, Cl. D15—1.
Moore, Donald L., P. M. Fricke, Jr., W. H. Tucker, and R. R. Spilman, to Hamilton Cosco, Inc. Chair. 214,834, 8–5–69, Cl. D15—1.
Moore, Edker R. Toy hoop roller. 214,675, 7–15–69, Cl. D34—5.
Moore, Harrington. Key ring. 213,253, 1–21–69, Cl. D50—4.
Moore, Ivan H. Fishing rod holder. 215,436, 9–30–69, Cl. D22—22.
Moore, Ivan H. Trouble light support. 215,474, 9–30–69, Cl. D48—4.
Moore, James F., and F. B. Hansen. Snow scraper for skis. 213,906, 4–22–69, Cl. D49—24.
Moore, Lewis F., R. L. Dunkelman, and T. E. Schermerhorn, Jr. Deep fat fryer. 215,383, 9–23–69, Cl. D81—10.
Moore, Walter E., to UMC Industries, Inc. Ice cream merchandiser. 216,044, 11–18–69, Cl. D52—3.
Moore, William E. Combined sign and holder therefor. 215,896, 11–4–69, Cl. D72—1.
Moran, Jack, W. A. Reynolds, and B. Steveson. Protective housing for service meters. 213,466, 3–4–69, Cl. D52—6.
Moran, Ralph M. Velocipede frame. 216,206, 12–2–69, Cl. D34—15.
Moranduzzo, Dario. Christmas tree ornament. 213,501, 3–11–69, Cl. D29—1.
Morgan, Doyle J.: *See*—
Leary, Donald J., and Morgan. 213,260.
Morgan, Fred, to Afico S.A. Can. 215,703, 10–28–69, Cl. D9—240.
Morgan, Richard E.: *See*—
MacLachlan, William B., Aherne, and Morgan. 215,649.
Morgan, Robert G., to Sylvania Electric Products Inc. Lighting device. 214,911, 8–12–69, Cl. D26—8.
Morgan, William K., to Pretty Products, Inc. Hangable transparent display package. 214,241, 5–20–69, Cl. D9—191.
Morgantown Glassware Guild, Inc.: *See*—
Yutzey, Marvin G. 213,331.
Yutzey, Marvin G. 214,578.
Mori Denki Mfg. Co., Ltd.: *See*—
Mori, Shinjiro. 214,080.
Mori, Shinjiro, to Mori Denki Mfg. Co., Ltd. Reflector for an industrial safety light. 214,080, 5–6–69, Cl. D48—16.
Moribe, Hajime, to Pop Corp. Toy automobile. 213,511, 3–11–69, Cl. D34—15.
Morimoto, Kazz: *See*—
Buchsbaum, Alan, and Morimoto. 216,012.
Morningstar Corp., The: *See*—
Lyman, George, and Gelardi. 213,535.
Morris, John: *See*—
Cathers, Richard T., and Morris. 214,597.
Morris, Nathan K. Hand-operated sewing machine. 213,923, 4–22–69, Cl. D70—1.
Morris, Philip, Inc.: *See*—
Genaro, Donald M. 215,142.
Morris, Ralph, to Fingerhut Mfg. Co. Blender. 213,938, 4–22–69, Cl. D89—1.
Morrow, Edward L., to Olin Mathieson Chemical Corp. Resilient gun recoil pad. 214,999, 8–19–69, Cl. D22—9.
Morstatter, Miles F., to The B. F. Goodrich Co. Tire. 214,149, 5–13–69, Cl. D90—20.
Morton, Robert D.: *See*—
Grohoski, Edward G., Morton, and Willard. 214,694.
Mortrude, Albert D.: *See*—
Birchard, Jesse, Bondar, Conner, and Mortrude. 215,595.
Birchard, Jesse R., Mortrude, and Conner. 215,592.
Birchard, Jesse R., Mortrude, and Conner. 215,593.
Birchard, Jesse R., Mortrude, and Conner. 215,594.
Birchard, Jesse R., Mortrude, and Conner. 216,387.
Mox, Dana W.: *See*—
Cheris, Maynard H., Bigos, and Mox. 216,028.
Mox, Dana W., to Hanson Scale Co. Bathroom scale. 213,588. 3–18–69, Cl. D52—10.
Mox, Dana W., to Tenex Corp. Plastic runner. 214,233, 5–20–69, Cl. D92—4.
Moyroud, Louis M. Cassette for phototypesetting machines. 216,281, 12–9–69, Cl. D61—1.
Mueller, Leonard E., 40% to C. R. Brown. Flying toy. 214,577, 7–1–69, Cl. D34—15.
Mulder, Kenneth W., to Safety Education, Inc. Cookie. 214,008, 5–6–69, Cl. D1—18.
Mulford, Ralph D. Foldable step unit for use on a motor vehicle. 214,558, 7–1–69, Cl. D15—8.
Muller, Frederick W., to Cook Chemical Co. Bottle. 213,172, 1–14–69, Cl. D9—127.
Muller, Frederick W., and J. D. Clevenger, to Cook Chemical Co. Combined container and hand pump for spraying liquids or the like. 213,170, 1–14–69, Cl. D9—3.
Muller, Henry P., to Lightolier Inc. Desk lamp. 213,902, 4–22–69, Cl. D48—20.
Muller, Karl-Heinz, to Belzer-Werk R. Belzer. Torque wrench or the like. 215,403, 9–30–69, Cl. D8—24.
Muller, Keith N., and M. M. Stewart, to Muller & Stewart Ltd. Chair or similar article. 215,596, 10–14–69, Cl. D15—1.
Muller & Stewart Ltd.: *See*—
Muller, Keith N., and Stewart. 215,596.
Muller, Walter, F. Hero, and K. Odermatt, to Firma Lubke K.G. Easy chair. 214,437, 6–17–69, Cl. D15—1.
Muller, Willi. *See*—
Strater, Fritz. 213,183.
Mulloy, Mercedes V. Bed pan cover. 213,238, 1–14–69, Cl. D83—1.
Multronics, Inc.: *See*—
Behr, Lawrence V. 213,203.
Mulvey, Gerard E., and G. E. Boake. Lighting fixture. 213,634, 3–25–69, Cl. D48—23.
Mulvey, Gerard E., and G. E. Boake. Lighting fixture. 215,341, 9–23–69, Cl. D48—23.
Mumford, Norman. Hot dog stand. 215,205, 9–16–69, Cl. D13—1.
Munson, Austin H., E. W. Grawoig, and J. Martin, to Saunda, Inc. Vaporizer for nasal hygiene. 214,905, 8–12–69, Cl. D23—148.
Murcott, Charles E. Invalid walker. 216,288, 12–9–69, Cl. D88—5.
Murphy, G. W., Industries, Inc.: *See*—
Boldt, Melvin H. 213,850.
Murr, Theodore C. Container with sliding cover. 216,171, 11–25–69, Cl. D87—1.
Murray Co. of Texas, Inc.: *See*—
Stone, Alan J. 214,338.
Murray Ohio Mfg. Co., The: *See*—
Schreckengost, Viktor. 213,347.
Schreckengost, Viktor. 213,753.
Schreckengost, Viktor. 214,979.
Schreckengost, Viktor. 215,110.
Schreckengost, Viktor. 215,986.
Schreckengost, Viktor. 215,987.

Muscatiello, Ralph A., to The Gillette Co. Combined aerosol container and base therefor. 214,829, 8–5–69, Cl. D9—8.
Muse, George B. Building block for apertured wall. 214,624, 7–8–69, Cl. D18—2.
Muse, George B. Building block. 214,625, 7–8–69, Cl. D18—2.
Musichuk, Alexander B., to M. T. & D. Co. Velocipede. 213,121, 1–7–69, Cl. D34—15.
Musser, Malcolm E. Spiraled conveyer cart for use primarily in supermarkets. 213,787, 4–8–69, Cl. D33—14.
Myerly, William H. Hose. 213,957, 4–29–69, Cl. D23—44.
Myers, Clayton S.: *See*—
Mangold, Raymond J., and Myers. 215,344.
Mangold, Raymond J., and Myers. 215,345.
Mangold, Raymond J., and Myers. 215,347.
Myers, Dean, to Poly-Optics, Inc. Decorative light fixture. 215,478, 9–30–69, Cl. D48—20.
Myhre, John F. Outdoor lantern. 216,042, 11–18–69, Cl. D48—31.
NVF Co.: *See*—
Fisher, James G. 213,359.
Naeve, Gary E. Auxiliary tractor fuel tank. 214,435, 6–17–69, Cl. D14—3.
Nagaoka, Kyoichi. Handle for garden tools or the like. 214,070, 5–6–69, Cl. D35—2.
Nagel, Dietmar, to Sunbeam Corp. Humidifier. 214,167, 5–20–69, Cl. D23—146.
Nagel, Robert W., to American Standard Inc. Surgeon's scrub sink. 215,215, 9–16–69, Cl. D23—58.
Nagrodsky, George. Telephone call timer. 213,295, 2–4–69, Cl. D26—14.
Nahumck, Nicholas I. Ballet barre. 213,696, 4–1–69, Cl. D25—1.
Namsco, Inc.: *See*—
Anderson, Joel A. 215,209.
Napco, Inc.: *See*—
Shore, Sherman J. 213,135.
Shore, Sherman J. 213,910.
Nardone, William, to Sweetheart Plastics, Inc. Flexible drinking straw. 214,150, 5–13–69, Cl. D94—3.
Nash, John J., to Alsco, Inc. Circuit breaker housing for a rocket launcher. 215,723, 10–28–69, Cl. D26—13.
Nast, Robert. Roll film feed adapter. 213,919, 4–22–69, Cl. D61—1.
National Biological Corp.: *See*—
Schwartz, Jack H. 215,567.
National Cash Register Co., The: *See*—
Crease, Pierre L. 216,340.
Hermann, Thomas L. 213,352.
Inatomi, Charles T., and Iblings. 215,096.
Inatomi, Charles T., and Iblings. 215,296.
National Dairy Products Corp.: *See*—
Vanderhyde, Harold J. 215,824.
National Distillers and Chemical Corp.: *See*—
Lewis, Dan, Jr., Palmer, and Walkup. 214,422.
Osborn, John R. 214,020.
Osborn, John R. 214,419.
Osborn, John R. 214,420.
Osborn, John R. 214,426.
National Industries, Inc.: *See*—
Sickler, Donald L. 214,164.
Sickler, Donald L. 215,429.
Winer, Ephraim. 214,374
National Services Industries, Inc.: *See*—
Cretin, Theodore D. 216,113.
Cretin, Theodore D. 216,114.
National Union Electric Corp.: *See*—
Schaefer, Harold W., and Hohulin. 214,340.
Natoli, John J.: *See*—
Cottler, Seton, and Natoli. 213,562.
Nawman, Rollie B., to Benner-Nawman, Inc. Telephone enclosure. 215,926, 11–11–69, Cl. D13—1.
Nearing, Theodore N., to Stauffer Chemical Co. Removable inner compartment for a can. 213,176, 1–14–69, Cl. D9—253.
Nearing, Theodore N., to Stauffer Chemical Co. Removable inner compartment for a can. 213,177, 1–14–69, Cl. D9—253.
Nearing, Theodore N., to Stauffer Chemical Co. Removable inner compartment for a can. 213,178, 1–14–69, Cl. D9—253.
Nebiker, Fred R.: *See*—
Bair, Herbert Q., and Nebiker. 215,247.
Necchi Societa per Azioni: *See*—
Zanuso, Marco, and Sapper. 215,368.
Neese, Gerald W., to Purex Corp., Ltd. Jar. 214,424, 6–17–69, Cl. D9—92.
Neidhardt, Dale A. Fence post. 213,112, 1–7–69, Cl. D28—1.
Neidhardt, Dale A. Fence post. 213,113, 1–7–69, Cl. D28—1.
Nelson, Edgar L., and H. W. Davis, to A. Teichert & Son, Inc. Precast concrete manhole base section. 215,357, 9–23–69, Cl. D60—2.
Nelson, Jack D. Safety spindle. 213,736, 4–1–69, Cl. D74—2.
Nelson, John F., to Illinois Tool Works, Inc. Fluid distribution unit. 213,317, 2–18–69, Cl. D23—40.
Nelson, John F., to Illinois Tool Works Inc. Liquid level indicator. 213,397, 2–25–69, Cl. D52—6.
Nelson, Ted P. Automotive valve cap. 214,981, 8–12–69, Cl. D90—20.
Nelson, Ted P. Automotive valve cap. 216,353, 12–16–69, Cl. D90—20.
Nemeth, Otto R., ⅓ each to A. M. Frank and C. A. Palmer. Movie film viewer. 214,701, 7–15–69, Cl. D61—1.
Nemett, George. Information chart. 213,159, 1–7–69, Cl. D87—5.
Newburgh Molded Products, Inc.: *See*—
Soderberg, Eric W. 215,899.
Newman, Fred C., to Continental Can Co., Inc. Combined liquid dispensing container and cover therefor. 214,019, 5–6–69, Cl. D9—37.
Newman, James F., to Uniroyal, Inc. Tire. 213,245, 1–14–69, Cl. D90—20.
Nibot Corp.: *See*—
Beckman, Charles F., and Schier. 213,460.
Nicholas, James H. Game board. 215,221, 9–16–69, Cl. D34—5.
Nicholas, James H. Game board. 215,222, 9–16–69, Cl. D34—5.
Nichols, James W. Cabinet unit. 215,550, 10–7–69, Cl. D33—19.
Nichols, Robert A. Canoe paddle. 216,227, 12–2–69, Cl. D71—1.
Nichols, Robert A. Boat oar. 216,344, 12–16–69, Cl. D71—1.
Niemann, James E., and R. W. Young, to American Standard Inc. Bathtub. 216,120, 11–25–69, Cl. D23—55.
Niemoller, R. G., (Proprietary) Ltd.: *See*—
Niemoller, Rudolf G. 214,132.
Niemoller, Rudolf G. 214,133.
Niemoller, Rudolf G. 214,134.
Niemoller, Rudolf G., to R. G. Niemoller (Proprietary) Ltd. Base for a cigarette lighter or the like. 214,132, 5–13–69, Cl. D48—27.
Niemoller, Rudolf G., to R. G. Niemoller (Proprietary) Ltd. Base for a cigarette lighter or the like. 214,133, 5–13–69, Cl. D48—27.
Niemoller, Rudolf G., to R. G. Niemoller (Proprietary) Ltd. Base for a cigarette lighter or the like. 214,134, 5–13–69, Cl. D48—27.
Nightingale, Frank J. Cervical traction halter. 213,478, 3–4–69, Cl. D83—1.
Nightingale, Frank J. Cervical traction unit. 214,543, 6–24–69, Cl. D83—1.
Ninger, Fred C., to Warner-Lambert Pharmaceutical Co. Pharmaceutical tablet. 216,307, 12–16–69, Cl. D16—3.
Nittan Co., Ltd.: *See*—
Ave, Nagao. 215,039.
Ave, Nagao. 215,040.
Nitto Kohki Co., Ltd.: *See*—
Nikiya, Toshio. 215,047.
Noble, F. H., & Co.: *See*—
Allen, Dorothy K. 215,729.
Noel, Howard S.: *See*—
Broadus, Jerry N., Faerber, Noel, Stokes, and Union. 215,659.
Noel, John A. Plastic cup or the like. 213,546, 3–18–69, Cl. D9—242.
North American Aluminum Corp.: *See*—
Henebry, John P., and Stineback. 214,042.
Henebry, John P., and Stineback. 214,440.
North American Philips Co., Inc.: *See*—
Ducharme, Maxime. 213,648.
Schellens, Henricus F. T. 213,664.
Schellens, Henricus F. T. 214,753.
North American Rockwell Corp.: *See*—
Barnett, Burton, Raymes, and Sackinger. 213,146.
Bodey, Charles E. 215,972.
Curriston, Loren E., and Fornoff. 213,732.
Curriston, Loren E., and Fornoff. 213,733.
Curriston, Loren E., and Fornoff. 213,734.
Dahlman, William J., and Budds. 214,445.
Nordeen, Melvin A. Combined coupling and air nozzle. 215,287, 9–23–69, Cl. D23—34.
Noren, Tore H. Holder for a silverware cup. 215,557, 10–7–69, Cl. D44—29.
Northern Electric Co., Ltd.: *See*—
Chipping, William S. 215,362.
Northgrave, Franklin D., and A. N. Knowles, to London Winery Ltd. Bottle. 214,304, 6–3–69, Cl. D9—23.
Northgrave, Franklin D., and A. N. Knowles, to London Winery Ltd. Bottle. 214,306, 6–3–69, Cl. D9—122.
Northrop Corp.: *See*—
Grogan, George C., Green, Beattie, Miller, and Johnston. 215,212.
Schwartz, Ronald S. 215,673.
Nosis, William H. Cooking grill. 214,816, 7–29–69, Cl. D81—10.
Nouwen, Gerbrand G., to Maatschappij van Berkel's Patent N.V. Postal scale or the like. 214,953, 8–12–69, Cl. D52—10.
Noyes, Eliot F., to International Business Machines Corp. Headset or the like. 215,217, 9–16–69, Cl. D26—14.
Noyes, Eliot F., to International Business Machines Corp. Control console. 215,938, 11–11–69, Cl. D26—5.
Nuclear Research Associates, Inc.: *See*—
Arsenault, Gerald M., and Ehrlich. 213,292.
Nurkiewicz, Ignatius, to Stop-Fire, Inc. Valve for fire extinguishers. 216,363, 12–23–69, Cl. D23—19.
Nussbaum, R., & Co. AG: *See*—
Martin, Jurt, and Steiner. 213,193.
O & R Engines, Inc.: *See*—
Carnahan, John T. 214,777.
Oakland Community College: *See*—
Canfield, Albert A. 213,888.
O'Brien, Kevin M., and D. H. Burns, to General Foods Corp. Bottle. 213,305, 2–18–69, Cl. D9—60.
Oceanautic Mfg. and Research Co.: *See*—
Hackman, Donald J., Hillman, and Legue. 215,407.

O'Connor, Donald J. Ashtray. 215,777, 10–28–69, Cl. D85—2.
O'Connor, Donald J. Ashtray. 215,778, 10–28–69, Cl. D85—2.
Odar, Larry F.: *See*—
Schier, Robert W., and Odar. 214,923.
Schier, Robert W., and Odar. 214,924.
Odermatt, Karl: *See*—
Muller, Walter, Hero, and Odermatt. 214,437.
Offenhauser, Frank: *See*—
Christopher, Garth D., and Offenhauser. 214,720.
Office d'Etuues et de Diffusion Pharmaceutique & Centre de Recherche et d'Etude Medicale O.E.D.I.P.-C.E.R.E.M.: *See*—
Goeury, Jean-Pierre. 214,143.
Offray, Claude V., Jr. Ribbon container. 216,251, 12–9–69, Cl. D9—192.
Ohio Wire Products Co., Inc.: *See*—
Gay, Robert C., and Milan. 214,645.
Ohta, Kikuo, to Matsushita Electric Industrial Co., Ltd. Radio receiver. 214,696, 7–15–69, Cl. D56—4.
Oita, Yoshio, to The Dunlop Co. Ltd. Tire. 216,238, 12–2–69, Cl. D90—20.
Oldham, Dale R.: *See*—
Smith, Earl D., and Oldham. 214,286.
O'Leary, Thomas V. Paint can lid. 213,862, 4–22–69, Cl. D9—264.
O'Leary, Thomas V. Paint can lid. 214,617, 7–8–69, Cl. D9—264.
Olin Mathieson Chemical Corp.: *See*—
Morrow, Edward L. 214,999.
Oliver, Orville R.: *See*—
Davis, William F., and Oliver. 215,109.
Olivetti, Ing. C., & C., S.p.A.: *See*—
Bellini, Mario. 213,830.
Bellini, Mario. 216,161.
Olson, Leslie W. Combined rotatable styling tray and support stand therefor. 215,857, 11–4–69, Cl. D33—3.
Olson, Richard J. Photographic camera or similar article. 213,852, 4–15–69, Cl. D61—1.
Olson, Richard J., to Eastman Kodak Co. Movie camera or similar article. 215,124, 9–2–69, Cl. D61—1.
Olson, Richard J. Movie camera or similar article. 215,892, 11–4–69, Cl. D61—1.
Oltman, Roland O., and K. R. McHardy. Dispensing container for dry products. 214,554, 7–1–69, Cl. D9—207.
Olympia Werke A.G.: *See*—
Auboeck, Carl. 213,230.
Auboeck, Carl. 213,232.
Auboeck, Carl. 213,233.
Auboeck, Carl. 213,256.
Auboeck, Carl. 214,815.
Boothby, Alfons. 215,501.
Boothby, Alfons. 215,893.
Wada, Kiyosaku. 215,878.
Olympus Optical Co. Ltd.: *See*—
Sato, Masaaki, and Shigetomi. 214,451.
OMEGA Louis Brandt & Frere S.A.: *See*—
Meylan, Rene. 215,112.
Onaka, Tomohiro. Putter. 213,118, 1–7–69, Cl. D34—3.
Oneida Ltd.: *See*—
Conland, Robert S. 216,048.
Lea, Melvin A. 214,203.
Lea, Melvin A. 216,047.
Manderfield, Ellen B. 215,027.
Manderfield, Ellen B. 215,121.
Manderfield, Ellen B. 215,964.
Manderfield, Ellen B. 215,965.
Manderfield, Ellen B. 215,966.
Manderfield, Ellen B. 215,967.
Manderfield, Ellen B. 216,045.
Manderfield, Ellen B. 216,046.
Manderfield, Ellen B. 216,330.
Perry, Frank R. 215,242.
O'Neil, Robert A., to The Seeburg Corp. Cigarette vending machine cabinet. 214,850, 8–5–69. Cl. D52—3.
O'Neill, Frank D. Covered serving dish. 215,612, 10–14–69, Cl. D44—10.
Oota, Keiichi. Abacus. 215,004, 8–19–69, Cl. D25—1.
Oprins, Johannes A. E., to Ideal Industries, Inc. Electrical connector. 214,446, 6–17–69. Cl. D26—1.
Orange Roller Bearing Co., Inc.: *See*—
Farmer, Robert W. 214,682.
Orr, Robert P., to Butler Mfg. Co. Building roof fascia. 213,248, 1–21–69. Cl. D13—1.
Ortega, Charles J.: *See*—
Reinecke, Jean O., and Ortega. 214,656.
Orth, Henry W., and J. R. Byrne, to Stationers Loose Leaf Co. Sheet lifter for a loose leaf ring binder. 214,236, 5–20–69, Cl. D97—1.
Ortho Pharmaceutical Corp.: *See*—
Huck, Charles M. 214,970.
Huck, Charles M. 214,971.
Osborn, John R., to National Distillers and Chemical Corp. Jug. 214,020, 5–6–69, Cl. D9—39.
Osborn, John R., to National Distillers and Chemical Corp. Jug. 214,419, 6–17–69, Cl. D9—39.
Osborn, John R., to National Distillers and Chemical Corp. Jug. 214,420, 6–17–69, Cl. D9—39.
Osborn, John R., to National Distillers and Chemical Corp. Combined bottle and top cover. 214,426, 6–17–69, Cl. D9—118.
Osborne, Edwin F., Jr., to Esquire, Inc. Lighting casing. 213,580, 3–18–69, Cl. D48—20.
Osborne, Edwin F., Jr., to Esquire, Inc. Lighting casing. 213,581, 3–18–69, Cl. D48—20.
Osborne, Edwin F., Jr., to Esquire, Inc. Lighting casing. 213,583, 3–18–69, Cl. D48—20.6.
Osborne, Edwin F., Jr., to Esquire, Inc. Lighting casings. 213,720, 4–1–69, Cl. D48—20.
Osborne, Edwin F., Jr., to Esquire, Inc. Lighting casing. 215,175, 9–9–69, Cl. D48—20.
Osco Corp.: *See*—
Reisner, Sam. 213,590.
Reisner, Sam. 215,267.
Oster, John, Mfg. Co.: *See*—
Madl, Alfred W. 214,227.
Madl, Alfred W. 214,414.
Madl, Alfred W. 216,357.
Ostrye, Laurence H.: *See*—
Flachbarth, Charles T., and Ostrye. 215,963.
Ota, Hajime, to Fedtro, Inc. Portable light with swivel head. 214,942, 8–12–69, Cl. D48—24.
Otis Elevator Co.: *See*—
Brounn, Morrison J. 214,705.
Ottens, Richard A., to Union Carbide Corp. Synthetic food casing. 215,033, 8–19–69, Cl. D59—2.
Otto, Carl L., to Lloon Business Systems, Inc. Typewriter. 214,346, 6–3–69, Cl. D64—11.
Ouradnik, Frank E.: *See*—
Kuchuris, Louis G., and Ouradnik. 213,574.
Outboard Marine Corp.: *See*—
Granholm, Lars E. 214,767.
Owens-Corning Fiberglas Corp.: *See*—
Seymour, Merritt W. 213,624.
Seymour, Merritt W. 215,289.
Seymour, Merritt W. 215,290.
Owens-Illinois, Inc.: *See*—
Batdorf, Danny J. 213,427.
Batdorf, Danny J. 213,428.
Fuerst, Brooks D. 213,290.
Fuerst, Brooks D. 213,767.
Lawton, Edward H. 216,079.
Lawton, Edward H. 216,080.
Lawton, Edward H. 216,081.
Lawton, Edward H. 216,082.
Lawton, Edward H. 216,083.
Lawton, Edward H. 216,084.
Lawton, Edward H. 216,085.
Lawton, Edward H. 216,086.
Lawton, Edward H. 216,087.
Lawton, Edward H. 216,089.
Lawton, Edward H. 216,090.
Lawton, Edward H. 216,091.
Lawton, Edward H. 216,092.
Lawton, Edward H. 216,093.
Lawton, Edward H. 216,094.
Lawton, Edward H. 216,095.
Lawton, Edward H. 216,096.
Lawton, Edward H. 216,097.
Leary, Donald J. 213,421.
Leary, Donald J., and Morgan. 213,260.
Linn, James L., Jr. 213,423.
Linn, James L., Jr. 214,423.
Linn, James L., Jr. 214,966.
Plummer, James E. 213,261.
Plummer, James E. 213,763.
Plummer, James E. 213,764.
Plummer, James E. 213,820.
Plummer, James E. 214,550.
Plummer, James E. 214,551.
Plummer, James E. 214,553.
Weckman, Richard L. 213,424.
Weckman, Richard L. 213,762.
Weckman, Richard L. 213,766.
Weckman, Richard L. 213,822.
Weckman, Richard L. 215,143.
Owings, Joseph W., to American Standard Inc. Lavatory. 215,291, 9–23–69, Cl. D23—58.
Oxford, Jerry J., D. M. Kaffer, and L. M. Strenfel, to Oxford Mfg. Co. Automated cooking unit. 214,353, 6–3–69, Cl. D81—10.
Oxford Mfg. Co.: *See*—
Oxford, Jerry J., Kaffer, and Strenfel. 214,353.
Oxley, Robert F. Combined multiple socket patchboard and frame. 213,697, 4–1–69. Cl. 26—1.
Oy Airam AB: *See*—
Wirkkala, Tapio. 216,315.
Oye, Lloyd J. Combination medical supply cart and cabinet. 215,275, 9–23–69, Cl. D14—3.
Ozaki, Nobuo, to Maeda Iron Works Co., Ltd. Control lever for the speed change gear of a bicycle or the like. 215,044, 8–19–69, Cl. D90—1.
Ozaki, Roy A., to Hewlett-Packard Co. Cabinet for electronic apparatus. 215,158, 9–9–69, Cl. D26—5.
P.N. Luminous Equipment Co.: *See*—
Bobrick, Michell. 215,479.
Pacific Handy Cutter, Inc.: *See*—
Black, Leonard J. 213,258.
Black, Leonard J. 214,712.
Paden, Robert L., to El-Chem Machinery, Inc. Control console for de-burring apparatus. 215,028, 8–19–69, Cl. D55—1.
Pagano, Paul S. Notebook holder. 215,767, 10–28–69, Cl. D74—1.
Page, Edward, to M. Greenberg's Sons, Inc. Fire hydrant. 214,729, 7–22–69, Cl. D23—12.

Page, Edward, to M. Greenberg's Sons, Inc. Fire hydrant. 214,730, 7–22–69, Cl. D23—12.
Page, Edward, to M. Greenberg's Sons, Inc. Fire hydrant. 214,899, 8–12–69, Cl. D23—12.
Page, Edward, to M. Greenberg's Sons, Inc. Fire hydrant. 214,900, 8–12–69, Cl. D23—12.
Page, Edward, to M. Greenberg's Sons, Inc. Fire hydrant. 214,901, 8–12–69, Cl. D23—12.
Page, Edward, to M. Greenberg's Sons, Inc. Fire hydrant. 215,284, 9–23–69, Cl. D23—12.
Page, Edward, to M. Greenberg's Sons, Inc. Fire hydrant. 215,285, 9–23–69, Cl. D23—12.
Paige, Richard E., to Brooks & Porter, Inc. Collapsible carton. 214,262, 5–27–69, Cl. D9—196.
Paine, Eugene F. Shelf support. 213,569, 3–18–69, Cl. D33—3.
Painter, David L., and C. M. Crabtree, to Premium Plastic, Inc. Bed pan. 216,058, 11–18–69, Cl. D83—1.
Palmer, Charles A.: *See*—
Nemeth, Otto R. 214,701.
Palmer, William H.: *See*—
Lewis, Dan, Jr., Palmer, and Walkup. 214,422.
Pantasote Co. of New York, The: *See*—
Weiss, Hugh R. 214,363
Weiss, Hugh R. 214,391.
Pantry Queen Products Inc.: *See*—
Solomon, Jack. 215,228.
Papineau, Donald G. Wet suit hanger. 214,144, 5–13–69, Cl. D80—8.
Papineau, Donald G. Hanger for skin diver equipment. 214,145, 5–13–69, Cl. D80—8.
Pappas, C., Co., Inc.: *See*—
Pappas, John C., Jr. 216,361.
Pappas, John C., Jr., to C. Pappas Co., Inc. Bottle. 216,361, 12–23–69, Cl. D9—87.
Paranzino, Joseph A., to H. Daroff & Sons, Inc. Trouser measuring device. 215,756, 10–28–69, Cl. D52—6.
Parker, Douglas W. Fishing lure. 213,368, 2–25–69, Cl. D22—28.
Parker Pen Co., The: *See*—
Rhoades, Nolan K. 216,346.
Parker, Reginald C., to Rubery Owen and Co. Wheel. 214,621, 7–8–69, Cl. D14—30.
Parker, Reginald C., to Rubery Owen and Co. Ltd. Wheel. 216,189, 12–2–69, Cl. D14—30.
Parker, Reginald C., to Rubery Owen and Co. Ltd. Wheel. 216,190, 12–2–69, Cl. D14—30.
Parker, Reginald C., to Rubery Owen and Co. Ltd. Wheel. 216,191, 12–2–69, Cl. D14—30.
Parker, Wayland B., to Schlumberger Ltd. (Schlumberger N.V.). Chair frame. 213,952, 4–29–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Ltd. (Schlumberger N.V.). Chair. 213,953, 4–29–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Limited (Schlumberger N.V.). Chair. 214,371, 6–10–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Limited (Schlumberger N.V.). Chair. 214,372, 6–10–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Limited (Schlumberger N.V.). Chair. 214,373, 6–10–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Ltd. (Schlumberger N.V.). Chair. 215,280, 9–23–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Ltd. (Schlumberger N.V.). Chair. 216,302, 12–16–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Ltd. (Schlumberger N.V.). Chair. 216,303, 12–16–69, Cl. D15—1.
Parker, Wayland B., to Schlumberger Ltd. (Schlumberger N.V.). Chair. 216,304, 12–16–69, Cl. D15—1.
Parkins Products Corp.: *See*—
Geltner, Daniel. 213,436.
Parry, Don, and T. J. Walters; said Walters assor. to said Parry. Building. 214,725, 7–22–69, Cl. D13—1.
Parry, John R. K., to Avon Rubber Co. Ltd. Tire. 215,532, 9–30–69, Cl. D90—20.
Parry, Robert D. Hand grip for a crutch or cane. 213,537, 3–11–69, Cl. D88—5.
Parsons, Emily C. Set of game tiles or the like. 216,134, 11–25–69, Cl. D34—5.
Partridge, Gerald J., to Jim Robbins Seat Belt Co. Buckle for a safety seat belt. 215,196, 9–16–69, Cl. D2—408.
Patch, Alan R., and W. G. Broman, to The Seeburg Corp. Column speaker. 216,019, 11–18–69, Cl. D26—14.
Patinvest Patent und Investment A.G.: *See*—
Bonsiepe, Gui. 215,983.
Patnaude, Henry A. Cleat. 215,405, 9–30–69, Cl. D8—232.
Patrick, Howard A.: *See*—
Bos, Charles J. 214,246.
Patriquin, George P., to Ilco Corp. Rose plate. 214,615, 7–8–69, Cl. D8—179.
Patrix, Georges, to Pernod S.A. Bottle. 216,249, 12–9–69, Cl. D9—127.
Paula, C. M., Co., The: *See*—
Penter, Albert P. 214,323.
Pauls, James R., to Dymo Industries, Inc. Tape embossing tool. 215,500, 9–30–69, Cl. D64—10.
Paulson, Maurice G.: *See*—
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,604.
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,603.
Pautrie, Riccardo, to AMP Inc. Electrical connector housing having a panel mounting construction. 214,272, 5–27–69, Cl. D26—1.
Pawnee Corp.: *See*—
Baatz, Richard J. 213,106.
Baatz, Richard J. 213,107.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Bicycle handlebar. 214,477, 6–17–69, Cl. D90—11.
Paxton, Oswald: *See*—
Dransfield, Clifford D., Shields, and Paxton. 216,110.
Payne, Charles M.: *See*—
Power, James F., Kauffman, and Payne. 216,055.
Peacock, Neil. Boat fender or similar article. 215,371, 9–23–69, Cl. D71—1.
Peak, Billy R.: *See*—
Reeder, Robert H., and Peak. 215,038.
Pearl's, Minnie, Chicken System, Inc.: *See*—
Swensson, Earl S. 215,050.
Pease, Donald L.: *See*—
Anderson, Stephen R., Crandell, and Pease. 214,959.
Pedersen, Arne B.: *See*—
Bomeisler, Douglas, Broderick, Gozonsky, and Pedersen. 216,349.
Peerless Enamel Products Co.: *See*—
Hammel, Clifford E. 215,903.
Pelavin, Joseph Y., to Lark Luggage Corp. Hanger. 215,367, 9–23–69, Cl. D80—8.
Pelensky, Walter J. Stringed musical instrument. 216,331, 12–16–69, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument. 216,332, 12–16–69, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument. 216,333, 12–16–69, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument. 216,334, 12–16–69, Cl. D56—1.
Pelletier, Roger. Marine switch. 213,698, 4–1–69, Cl. D26—13.
Pellow, Donald L. Microfilm reader. 214,098, 5–6–69, Cl. D61—1.
Pelton & Crane Co., The: *See*—
Jones, Arthur L. 214,502.
Jones, Arthur L. 214,503.
Jones, Arthur L. 214,504.
Jones, Arthur L. 214,505.
Jones, Arthur L. 214,506.
Jones, Arthur L. 214,507.
Pen, K. C., Co., Inc.: *See*—
Konwiser, Herbert. 213,739.
Penn Fruit Co., Inc.: *See*—
Stackhouse, Morris. 216,232.
Pennock, Robert L., Jr., W. A. Monson, and L. F. Wildgen, to Honeywell Inc. Projector. 216,378, 12–23–69, Cl. D61—1.
Pennsylvania Dutch Co., Inc.: *See*—
Warrell, Lincoln A. 214,162.
Penter, Albert P., to The C. M. Paula Co. Book holder. 214,323, 6–3–69, Cl. D33—3.
Peoples, Susan M. Portable one way coin operated telephone for institutions and hospitals. 213,627, 3–25–69, Cl. D26—14.
Perfect Film & Chemical Corp.: *See*—
Ackerman, Martin S. 214,097.
Ackerman, Martin S., and Hardy. 214,100.
Ackerman, Martin S., and Hardy. 215,891.
Perkin-Elmer Corp.: *See*—
Waligorski, Gordon J. 216,016.
Perkin-Elmer Corp., The: *See*—
Curtis, Reid H. 214,788.
Majesty, Jerome A. 215,676.
Waligorski, Gordon J. 215,154.
Perkins, Daniel A. Newspaper dispensing device. 214,947, 8–12–69, Cl. D52—3.
Perkins, John L. Fishing reel seat. 214,561, 7–1–69, Cl. D22—23.
Perlman, Harold, and J. Poltorak, to Spartan-Aqualon Corp. Inflatable pool cover. 213,867, 4–22–69, Cl. D13—1.
Pernod S.A.: *See*—
Patrix, Georges. 216,249.
Perrin, George S., to Plastics Research and Development Corp. Fishing lure. 215,155, 9–9–69, Cl. D22—27.
Perrin, Jack L., and C. A. Tucker, to Fowlsaver, Inc. Front panel for a toilet seat cover dispenser. 214,199, 5–20–69, Cl. D52—2.
Perruccio, Claire C., and G.-J. Bogue. Game board. 214,386, 6–10–69, Cl. D34—5.
Perry, Frank R., to Oneida Ltd. Spoon or similar article. 215,242, 9–16–69, Cl. D54—12.
Perry, Sidney L. Combination tent and car-top carrier apparatus. 214,727, 7–22–69, Cl. D14—27.
Pet Inc.: *See*—
Dittman, David T. 213,860.
Yentis, Jonathan, and Staff. 215,194.
Peter, Charles M. Cotton ball dispenser. 216,287, 12–9–69, Cl. D86—10.
Peter, Joseph E., to The Crane & Breed Casket Co. Casket or the like. 215,432, 9–30–69, Cl. D19—1.
Peter, Joseph E., to The Crane & Breed Casket Co. Casket or the like. 215,433, 9–30–69, Cl. D19—1.
Peter, Joseph E., to The Crane & Breed Casket Co. Casket or the like. 215,434, 9–30–69, Cl. D19—1.
Peter, Joseph E., to The Crane & Breed Casket Co. Casket or the like. 215,933, 11–11–69, Cl. D19—1.
Peterman, Earl J., to Metrotech, Inc. Magnetic tape deck. 215,301, 9–23–69, Cl. D26—14.
Peter's Bag Corp.: *See*—
Benenfeld, Peter. 215,048.
Peters, Charles M. D. Building panel. 213,311, 2–18–69, Cl. D13—1.
Peters, Don B., to E. C. Fraze. Pull tab for a removable tear portion. 214,027, 5–6–69, Cl. D9—256.

Peters, Don B., and G. T. Powell, to E. C. Fraze. Pull tab for a removable tear portion. 215,415, 9–30–69, Cl. D9—256.
Peters, Robert H., to Allen Organ Co. Electronic musical instrument of the keyboard type. 214,401, 6–10–69, Cl. D56—2.
Peterson, Edward W. Automatic lighter and dispenser. 214,003, 4–29–69, Cl. D85—2.
Peterson, Edwin F. Vibrator for material handling or the like. 213,917, 4–22–69, Cl. D55—11.
Peterson, Glen R., Jr., to Oscar Schmidt International, Inc. Zither or similar article. 213,525, 3–11–69, Cl. D56—1.
Peterson, Glen R., Jr., and R. C. McKay, to Oscar Schmidt-International, Inc. Zither or similar article. 215,887, 11–4–69, Cl. D56—1.
Peterson, Robert W.: *See*—
Clarke, David E., and Peterson. 214,450.
Petito, Joseph D. Golf figurine. 215,305, 9–23–69, Cl. D29—23.
Petrie, Patrick. Watchband attachment. 214,336, 6–3–69, Cl. D45—4.
Petroff, Ronald P., to The Goodyear Tire & Rubber Co. Tire. 213,659, 3–25–69, Cl. D90—20.
Pettengill, Floyd E., to Anchor Hocking Glass Corp. Bottle or similar article. 213,823, 4–15–69, Cl. D9—100.
Pettengill, Floyd E., to Anchor Hocking Glass Corp. Jar or similar article. 214,157, 5–20–69, Cl. D9—92.
Pettengill, Floyd E., to Anchor Hocking Glass Corp. Bottle or similar article. 214,158, 5–20–69, Cl. D9—100.
Pettengill, Floyd E., to Anchor Hocking Glass Corp. Bottle or similar article. 214,830, 8–5–69, Cl. D9—100.
Pettengill, Myron F., to General Electric Co. Light fixture. 214,938, 8–12–69, Cl. D48—4.
Pfaff, Gilbert G., and H. J. Edenhofer, to Princo Instruments, Inc. Housing for a heart monitor. 215,252, 9–16–69, Cl. D83—1.
Pfeiffer, Philip W.: *See*—
Schwartz, Robert A. D., and Pfeiffer. 215,558.
Pflueger Corp.: *See*—
Bittaker, Charles E., Jr., and Sarah. 214,497.
Velte, Carl J., Jr. 213,621.
Velte, Carl J., Jr. 213,622.
Pharmaseal Division of American Hospital Supply Corp.: *See*—
Cox, Clair E., Hinman, and Harautunelan. 215,387.
Philadelphia Asbestos Corp.: *See*—
Wheatley, William J., Jr. 215,826.
Phillips Drill Co.: *See*—
Bixby, Thomas G., and Holman. 213,589.
Phillips, George W., W. C. Hitt, and S. M. Slonneger, to San Fernando Air Parts, Inc. Semi-automatic washer for vehicles or the like. 214,197, 5–20–69, Cl. D49—12.
Phillips, Gerard D., Jr., to American Standard Inc. Proximity controlled flush valve mechanism for a urinal. 215,715, 10–28–69, Cl. D23—19.
Phillips, Harold C. Building block. 213,955, 4–29–69, Cl. D18—2
Phillips, Harold C. Building block. 214,268, 5–27–69, Cl. D18—2.
Phillips Petroleum Co.: *See*—
Collie, Stafford D. 213,310.
Shutt, Melvin S. 214,995.
Smith, Wilburn Q. 213,304.
Smith, Wilburn Q. 213,671.
Photronix, Inc.: *See*—
Wells, Willis L. 213,807.
Physics International Co.: *See*—
Estes, David R. 215,120.
Pick, Ernest W., to Johns-Manville Corp. Wall panel unit. 213,553, 3–18–69, Cl. D18—2.
Pickering, Loring, to Universal Building Products Corp. Cap for wall construction or the like. 213,618, 3–25–69, Cl. D18—2.
Pickering, Loring. Mold shoe for making concrete blocks. 215,351, 9–23–69, Cl. D55—1.
Pickering, Loring. Mold shoe for making concrete blocks. 215,352, 9–23–69, Cl. D55—1.
Pina, Daniel M., and T. J. Pressman. Antibiotic disc cartridge storage and dispenser. 215,491, 9–30–69, Cl. D52—2.
Pintea, Julia M. Jewel box. 214,408, 6–10–69, Cl. D87—1.
Pipolo, Felice. Trash receptacle hood. 214,398, 6–10–69, Cl. D49—35.
Pipolo, Felice. Trash receptacle. 216,224, 12–2–69, Cl. D49—35.
Pitts, Howard C. Container holder for an automobile. 214,934, 8–12–69, Cl. D44—10.
Planned Tectronics, Inc.: *See*—
Van Der Meulen, Guy R. 215,097.
Plantholt, Robert G., to Xerox Corp. Facsimile transceiver. 215,218, 9–16–69, Cl. D26—14.
Plastics, Inc.: *See*—
Gribbens, William J. 216,142.
Stageberg, Willis A. 214,185.
Stageberg, Willis A. 214,459.
Stageberg, Willis A. 214,460.
Stone, Stanford C. 214,523.
Plastics Research and Development Corp.: *See*—
Perrin, George S. 215,155.
Plastiers Ltd.: *See*—
Edmondson, Ronald. 215,157.
Plasto Inc.: *See*—
Beck, Jack W. 215,419.
Beck, Jack W. 215,420.
Beck, Jack W. 215,708.
Beck, Jack W. 215,709.
Beck, Jack W. 215,710.
Beck, Jack W. 215,829.
Beck, Jack W. 215,830.
Beck, Jack W. 216,105.
Platner, Warren, to Art Metal-Knoll Corp. Pedestal or the like. 213,976, 4–29–69, Cl. D33—14.
Plato Products Inc.: *See*—
Mehl, Ross M. 213,585.
Platt, Sidney S., to The Service Oil Co. Building. 216,106, 11–25–69, Cl. D13—1.
Platte, Richard L., to Hoover Ball and Bearing Co. Jug. 213,821, 4–15–69, Cl. D9—40.
Playrite Sportsgear Ltd.: *See*—
Terry, Raymond. 216,403.
Plessinger, John A. Display stand. 213,930, 4–22–69, Cl. D80—9.
Plessinger, John A., to Fiberglass of Ohio, Inc. Convertible display stand. 214,473, 6–17–69, Cl. D80—9.
Plumb, William L., to Dictaphone Corp. Portable dictating machine. 213,880, 4–22–69, Cl. D26—14.
Plumb, William L., and R. Drozdowski, to Thermo Electric Co., Inc. Indicating temperature controller. 213,221, 1–14–69, Cl. D52—7.
Plummer, James E., to Owens-Illinois, Inc. Jug. 213,261, 1–28–69, Cl. D9—51.
Plummer, James E., to Owens-Illinois, Inc. Jug. 213,763, 4–8–69, Cl. D9—40.
Plummer, James E., to Owens-Illinois, Inc. Jug. 213,764, 4–8–69, Cl. D9—48.
Plummer, James E., to Owens-Illinois, Inc. Jar. 213,820, 4–15–69, Cl. D9—107.
Plummer, James E., to Owens-Illinois, Inc. Jug. 214,550, 7–1–69, Cl. D9—44.
Plummer, James E., to Owens-Illinois, Inc. Jug. 214,551, 7–1–69, Cl. D9—47.
Plummer, James E., to Owens-Illinois, Inc. Jar. 214,553, 7–1–69, Cl. D9—101.
Podall, Robert, to American Machine & Foundry Co. Case for a time switch or the like. 216,017, 11–18–69, Cl. D26—13.
Podoloff, Richard H.: *See*—
Wahlenmeier, Frederick E., Podoloff, and Bell. 213,729.
Poehlmann, Paul W.: *See*—
Duckett, John W., Poehlmann, and Scott. 215,712.
Pohl, Harold J. Pet pad. 213,786, 4–8–69, Cl. D30—41.
Poltorak, Joseph: *See*—
Perlman, Harold, and Poltorak. 213,867.
Poltorak, Joseph A. Motor driven swamp buggy. 214,265, 5–27–69, Cl. D14—3.
Poly-Choke Co., Inc., The: *See*—
Stacy, William E. 213,566.
Poly-Optics, Inc.: *See*—
Myers, Dean. 215,478.
Polytop Corp.: *See*—
Hazard, Robert E. 214,721.
Hazard, Robert E. 214,722.
Hazard, Robert E. 214,723.
Hazard, Robert E. 214,882.
Hazard, Robert E. 214,883.
Hazard, Robert E. 214,884.
Hazard, Robert E. 215,409.
Pomeroy, J. H., & Co., Inc.: *See*—
McQueen, Philip J. 215,073.
Pond, James W., to The B. F. Goodrich Co. Tire. 215,395, 9–23–69, Cl. D90—20.
Pond, James W., to The B. F. Goodrich Co. Tire. 215,396, 9–23–69, Cl. D90—20.
Poon, Yuen S., to Baldwin Bracelet Corp. Link chain for a bracelet or similar article. 213,332, 2–18–69, Cl. D45—4.
Poon, Yuen S., to Baldwin Bracelet Corp. Link chain for a bracelet or similar article. 213,333, 2–18–69, Cl. D45—4.
Poon, Yuen S., to Baldwin Bracelet Corp. Watch bracelet or similar article. 213,633, 3–25–69, Cl. D45—4.
Poon, Yuen S., to Baldwin Bracelet Corp. Display box for watch bands or the like. 214,878, 8–12–69, Cl. D9—185.
Poor, John H., and C. H. Logan. Inflatable pad for a seat. 215,543, 10–7–69, Cl. D15—8.
Pop Corp.: *See*—
Moribe, Hajime. 213,511.
Pope, Melkiah E. Fish lure. 215,282, 9–23–69, Cl. D22—29.
Popeil, Samuel J. Combined hair cutter and shaver. 215,640, 10–14–69, Cl. D95—3.
Poppe, Martin C., M. E. Miller, A. D'Elia, and E. M. Stolarz. Bowl. 214,390, 6–10–69, Cl. D44—15.
Porciani, Alberto. Chafing dish. 216,408, 12–30–69, Cl. D44—15.
Porciani, Alberto. Combined chafing dish and support tray therefor. 216,409, 12–30–69, Cl. D44—15.
Porciani, Alberto. Combined chafing dish and support tray therefor. 216,410, 12–30–69, Cl. D44—15.
Porciani, Alberto. Chafing dish. 216,411, 12–30–69, Cl. D44—15.
Porosky, George R., to The Goodyear Tire & Rubber Co. Tire. 216,355, 12–16–69, Cl. D90—20.
Porsche, Ferdinand A.: *See*—
Porsche, Ferdinand A. E., and F. A. 215,928.
Porsche, Ferdinand A. E., and F. A., to Dr. Ing. Porsche, h.c.F., K.G. Wheel. 215,928, 11–11–69, Cl. D14—30.

Porsche, Ferdinand A., and T. F. Bauer, to Dr. Ing. Porsche, h.c.F., K.G. Ski-bob. 215,950, 11–11–69, Cl. D34—15.
Porsche, Dr. Ing., h.c.F., K.G.: *See*—
Porsche, Ferdinand A., and Bauer. 215,950.
Porsche, Ferdinand A. E., and F. A. 215,928.
Porten, Laurence. Pneumatic tire. 215,133, 9–2–69, Cl. D90—20.
Porten, Laurence. Pneumatic tire. 215,521, 9–30–69, Cl. D90—20.
Porter, Alvin J., to Product Design & Engineering, Inc. Dispensing cap for a container. 214,881, 8–12–69, Cl. D9—258.
Porter, Charles A. Billiard table or similar article. 213,297, 2–4–69, Cl. D34—3.
Porter, Charles A. Billiard table or similar article. 213,298, 2–4–69, Cl. D34—3.
Porter, Charles A. Billiard table or similar article. 213,299, 2–4–69, Cl. D34—3.
Porter, Erma I. Ski hat. 213,668, 4–1–69, Cl. D2—256.
Porter-Jensen & Associates: *See*—
Jensen, Donald E. 213,625.
Portman, Warren C., and A. J. Weinstein, to The Ednalite Corp. Base for a high-intensity lamp. 215,336, 9–23–69, Cl. D48—20.
Portman, Warren C., and A. J. Weinstein, to The Ednalite Corp. Lamp housing for high intensity reading or work. 215,337, 9–23–69, Cl. D48—20.
Portman, Warren C., and A. J. Weinstein, to The Ednalite Corp. Lamp housing for a spot light. 215,338, 9–23–69, Cl. D48—20.
Portyrata, Raymond E., to Labranche Industries, Inc. Combined support bracket and spray head for a dispenser. 214,064, 5–6–69, Cl. D33—30.
Portz, William E., and H. B. Stump, to True Temper Corp. Shovel. 214,662, 7–15–69, Cl. D8—10.
Posada, Bathuel R. Food basting attachment for bottles or the like. 215,416, 9–30–69, Cl. D9—275.
Post, Harold P. Display cabinet for merchandise. 215,979, 11–11–69, Cl. D80—11.
Potruch, Robert A., to Lumidor Products Corp. Casing for electric tester. 213,962, 4–29–69, Cl. D26—1.
Potts, Charles R. Food spreader. 215,472, 9–30–69, Cl. D44—29.
Poulain-Van Lautem, Madeleine. Heterogeneous extruded sandwich section. 213,613, 3–25–69, Cl. D13—1.
Powell, Charles H. Spacing jig for cables to be encased in concrete or the like. 214,086, 5–6–69, Cl. D51—1.
Powell, George T.: *See*—
Peters, Don B., and Powell. 215,415.
Power, James F., J. J. Kauffman, and C. M. Payne. Holder for tow rope. 216,055, 11–18–69, Cl. D71—1.
Power, John J., to Swingline, Inc. Stapling plier or similar article. 213,147, 1–7–69, Cl. D74—1.
Power, John J., and N. M. Olney, to Swingline, Inc. Long-reach stapling machine or similar article. 214,347, 6–3–69, Cl. D74—1.
Powers, Marilyn S. Combined toothbrush and paste holder and cup and mouthwash dispenser. 213,977, 4–29–69, Cl. D33—27.
Precision Technical Design Inc.: *See*—
Joffe, Joseph A. 214,508.
Pregont, Jack E. Snack tray or similar article. 214,075, 5–6–69, Cl. D44—10.
Premier Drum Co. Ltd., The: *See*—
Della-Porta, Clifford A. 214,129.
Premium Plastic, Inc.: *See*—
Painter, David L., and Crabtree. 216,058.
Prescott, J. L., Co.: *See*—
Maxwell, Richard L. 213,212.
Press, Jack A., Jr. Pedestrian traffic signal. 215,507, 9–30–69, Cl. D72—1.
Pressman, T. Justin: *See*—
Pina, Daniel M., and Pressman. 215,491.
Presto Lock Co., Inc.: *See*—
D'Ella, Anthony N., and Stolarz. 213,242.
D'Ella, Anthony N., and Stolarz. 214,209.
D'Ella, Anthony N., and Stolarz. 215,199.
Preston, Bruce A., to Amerock Corp. Cabinet with revolving shelves. 214,063, 5–6–69, Cl. D33—19.
Pretty Products, Inc.: *See*—
Morgan, William K. 214,241.
Price, Charles B., and S. Braun, to Scovill Mfg. Co. Combined storage and display rack for an electric knife and an electric food mixer. 215,872, 11–4–69, Cl. D44—29.
Price, James R., to Textron Inc. Fork or similar article. 215,239, 9–16–69, Cl. D54—12.
Price, Roger, to Random House, Inc. Game board or similar article. 216,402, 12–30–69, Cl. D34—5.
Pride Products Co.: *See*—
Carpenter, Joseph D., and Golding. 213,550.
Golding, Fred E. 213,579.
Princo Instruments, Inc.: *See*—
Pfaff, Gilbert G., and Edenhofer. 215,252.
Procter & Gamble Co., The: *See*—
Campbell, John B., and Horne. 214,421.
Johnson, Roland E. 216,297.
Vanderhyde, Harold J. 214,261.
Vanderhyde, Harold J. 214,425.
Vanderhyde, Harold J. 214,874.
Vuillemenot, Robert P. 215,704.
Proctor-Silex, Inc.: *See*—
Decrouez, Pierre L. 213,932.
Decrouez, Pierre L. 213,937.
Decrouez, Pierre L., and Sproston. 214,335.
Fossella, Gregory. 214,339.
Hanson, Thomas E., and Lindsay. 215,680.
Hanson, Thomas E., and Younge. 215,132.
Product Design & Engineering, Inc.: *See*—
Porter, Alvin J. 214,881.
Productline, Inc.: *See*—
Hall, John C. 215,198.
Produits Erismann S.A.: *See*—
De Tymowski, Jacques. 213,675.
Proffer, Robert J. Two wheeled vehicle. 216,415, 12–30–69, Cl. D90—8.
Projain, Richard: *See*—
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,604.
Shmurak, Benjamin, Projain, Kelleher, and Paulson. 215,605.
Protas, Roger I., to Mine Safety Appliances Co. Safety hat. 214,861, 8–12–69, Cl. D2—231.
Protzmann, Donald E., to General Time Corp. Clock casing. 213,793, 4–8–69, Cl. D42—7.
Protzmann, Peter J., to Herman Miller, Inc. Card file cabinet. 215,737, 10–28–69, Cl. D33—19.
Provendi S.A.: *See*—
Schloffhauber, Arnold C. 214,633.
Provest, Jon N., to Atkins & Merrill, Inc. Message center cabinet. 214,925, 8–12–69, Cl. D33—19.
Provost, Charles H. Combined desk and side shelf unit. 213,974, 4–29–69, Cl. D33—7.
Pruett, Robert T.: *See*—
Redden, Robert J., and Pruett. 213,866.
Puckett, Charles G. Cuff aligner. 213,467, 3–4–69, Cl. D52—6.
Pudelko, Frank J. and V. M., and L. T. and L. L. Hinn, to H & P Mfg. Corp. Mop cone wringer. 215,179, 9–9–69, Cl. D49—29.
Pudelko, Virginia M.: *See*—
Pudelko, Frank J. and V. M., and L. T. and L. L. Hinn. 215,179.
Pules, Maurice L., to The Goodyear Tire & Rubber Co. Tire. 215,572, 10–7–69, Cl. D90—20.
Purex Corp., Ltd.: *See*—
Lenhart, John E. 213,940.
Neese, Gerald W. 214,424.
Quaker Oats Co., The: *See*—
Harwood, Charles C., and Wilkinson. 215,077.
Quaker Lace Co.: *See*—
Fees, Richard A. 213,818.
Queen, Carl J. Saddle tree. 216,022, 11–18–69, Cl. D30—20.
Quercia, Flaminaire Marcel: *See*—
Quercia, Marcel. 213,214.
Quercia, Marcel, to Flaminaire Marcel Quercia. Lighter. 213,214, 1–14–69, Cl. D48—27.
Quercia, Marcel, to Flaminaire Marcel Quercia. Lighter. 214,393, 6–10–69, Cl. D48—27.
Quinn, Peter T., to Eastman Kodak Co. Photographic camera or similar article. 215,363, 9–23–69, Cl. D61—1.
RAI Research Corp.: *See*—
D'Agostino, Vincent F., and Brieff. 214,896.
RCBS, Inc.: *See*—
Tucker, Donald R. 213,465.
R-N Acceptance Ltd.: *See*—
Smith, Harold E. 216,188.
RTKL Inc.: *See*—
Kostritsky, George E. 215,068.
Kostritsky, George E. 216,274.
Raacke, Peter. Chair. 216,112, 11–25–69, Cl. D15—1.
Rabey, Graham P. Dental articulator. 216,196, 12–2–69, Cl. D24—1.
Rabey, Graham P. Base plate for a dental articulator. 216,197, 12–2–69, Cl. D24—1.
Rabineau, Eli. Cabinet for housing electronic equipment. 214,168, 5–20–69, Cl. D26—5.
Rackocy, William J., to Ronson Corp. Warming stand. 214,184, 5–20–69, Cl. D44—10.
Radeke, Robert C., to Contour Laminates, Inc. Portable fireplace. 215,718, 10–28–69, Cl. D23—97.
Radio Corp. of America: *See*—
Bush, Clarence E. 213,699.
Callaghan, John D. 213,968.
Kinslow, William E. 215,380.
Rae, Randolph S. Planing boat. 214,102, 5–6–69, Cl. D71—1.
Raiser, Christian D. Bird cage. 215,730, 10–28–69, Cl. D30—4.
Ralt, Joseph M. Photocopy machine. 213,142, 1–7–69, Cl. D61—1.
Rakocy, William J., to Ronson Corp. Combined display and storage case for an electric shaver. 214,026, 5–6–69, Cl. D9—232.
Rakocy, William J., to Ronson Corp. Electric shaver travel case. 214,416, 6–10–69, Cl. D95—3.
Raleigh Industries Ltd.: *See*—
Gordon, John M., and Letherland. 213,606.
Karen, Thomas. 214,980.
Ralston Purina Co.: *See*—
Lewis, Richard L. 213,477.
Randall, Don: *See*—
Crossland, Edward J., Walters, and Randall. 215,075.
Randolph-Rand Corp.: *See*—
Reitzel, Georg. 215,128.

Random House, Inc.: *See*—
Price, Roger. 216,402.
Rapidograph, Inc.: *See*—
Danjczek, William E. 216,282.
Rappoport, Seymour. Cigarette lighter. 213,904, 4–22–69, Cl. D48—27.
Rasmusson, Ben E. Mold for ice cream or the like. 215,113, 9–2–69, Cl. D44—1.
Rau, Ben W. Proportional divider. 214,399, 6–10–69, Cl. D52—6.
Raub, Clifford G. Golf game board. 216,267, 12–9–69, Cl. D34—5.
Ravenhall, Arthur S., to The Dunlop Co. Ltd. Tire. 216,067, 11–18–69, Cl. D90—20.
Ravreby, Fred A.: *See*—
Diemond, Joseph, Gershman, and Ravreby. 216,260.
Rawson, John E.: *See*—
Kliewer, Homer F., and Rawson. 215,145.
Kliewer, Homer F., and Rawson. 215,146.
Rayex Corp.: *See*—
D'Elia, Anthony N., and Stolarz. 213,155.
Raymes, Frederick: *See*—
Barnett, Burton, Raymes, and Sackinger. 213,146.
Razickas, Paul. Toothbrush. 213,540, 3–18–69, Cl. D4—25.
Re, Armand: *See*—
Schickel, William J., and Re. 215,161.
Redden, Robert J., and R. T. Pruett, to ILC Industries, Inc. Air-supported structure. 213,866, 4–22–69, Cl. D13—1.
Redman, James C., to R. D. Werner Co., Inc. Ladder display stand. 213,809, 4–8–69, Cl. D80—9.
Redman, James C., to R. D. Werner Co., Inc. Ladder display stand. 216,380, 12–23–69, Cl. D80—9.
Redman, John F., Jr., to Crown Zellerbach Corp. Pallet. 213,548, 3–18–69, Cl. D14—3.
Reed, Harry T., to Ez Dusit Products Co. Golf tool. 214,635, 7–8–69, Cl. D34—5.
Reed, John E., to Sunbeam Corp. Humidifier. 214,166, 5–20–69, Cl. D23—146.
Reeder, Robert H., and B. R. Peak. Paddle boat. 215,038, 8–19–69, Cl. D71—1.
Reese Products, Inc.: *See*—
Reese, Terrell J. 214,072.
Reese, Terrell J., to Reese Products, Inc. Jack. 214,072, 5–6–69, Cl. D41—1.
Reflex Corp. of Canada Ltd.: *See*—
Hedgewick, Peter. 214,538.
Hedgewick, Peter. 215,625.
Hedgewick, Peter, and Stanley. 214,295.
Howell, George E. 213,474.
Howell, George E. 213,475.
Regent Sports Co.: *See*—
Khazzam, Joseph N. 213,284.
Khazzam, Joseph N. 213,285.
Khazzam, Joseph N. 213,286.
Khazzam, Joseph N. 213,287.
Khazzam, Joseph N. 213,288.
Khazzam, Joseph N. 213,289.
Rehrig, Houston, to Rehrig Pacific Co. Crate for milk containers or the like. 218,673, 4–1–69, Cl. D9—177.
Rehrig Pacific Co.: *See*—
Rehrig, Houston. 213,673.
Reibel, Robert H.: *See*—
Martinez, Eugene. 215,036.
Reibold, Elmer L., W. W. Timpe, and S. Trivellini, to Market Masters, Inc. Display fixture or similar article. 214,352, 6–3–69, Cl. D80—9.
Reich, Karl M., Maschinenfabrik: *See*—
Schwarz, Heinz. 214,208.
Reichenstein, Victor, to Consolidated Merchandising Corp. Portable radio or similar article. 214,593, 7–1–69, Cl. D56—4.
Reichenstein, Victor, to U.S. Industries, Inc. Portable radio photograph or similar article. 214,759, 7–22–69, Cl. D56—4.
Reichl, Ernst, to The Gillette Co. Combined packaging and storage tray for shaving accessories. 214,487, 6–24–69, Cl. D9—242.
Reichman, Paul A., to Custom Wrought Products Co. Log-handling tongs. 213,195, 1–14–69, Cl. D23—100.
Reichman, Paul A. Log-handling tongs. 213,196, 1–14–69, Cl. D23—100.
Reichman, Paul A., to Custom Wrought Products Co. Log-handling tongs. 213,197, 1–14–69, Cl. D23—100.
Reichow, James R., to The Cornelius Co. Soda draft arm, or similar article. 213,164, 1–7–69, Cl. D94—3.
Reid, Donald J., to Kelsey-Hayes Co. Wheel. 213,314, 2–18–69, Cl. D14—30.
Reid, Donald J., to Kelsey-Hayes Co. Wheel. 213,315, 2–18–69, Cl. D14—30.
Reid, Donald J., to Kelsey-Hayes Co. Wheel. 214,243, 5–20–69, Cl. D14—30.
Reid, Donald J., to Kelsey-Hayes Co. Wheel center unit. 214,728, 7–22–69, Cl. D14—30.
Reimuller, Barbara J.: *See*—
Reimuller, Christian J. 215,373.
Reimuller, Christian A.: *See*—
Reimuller, Christian J. 215,373.
Reimuller, Christian J., ⅛ each to B. J. and C. A. Reimuller. Face plate for a traffic control light. 215,373, 9–23–69, Cl. D72—1.
Reinarts, Robert B. Auxiliary cab for pickup truck. 214,036, 5–6–69, Cl. D14—3.
Reinecke, Jean O., and C. J. Ortega, to Relaxacizor, Inc. Electrical muscle stimulator. 214,656, 7–8–69, Cl. D83—1.
Reineman, Richard G., to Brunswick Corp. Boat wishbone. 213,234, 1–14–69, Cl. D71—1.
Reisner, Robert W. Motor vehicle. 215,425, 9–30–69, Cl. D14—3.
Reisner, Robert W. Motor vehicle. 215,426, 9–30–69, Cl. D14—3.
Reisner, Sam, to Osco Corp. Machine for slotting key blanks. 213,590, 3–18–69, Cl. D55—1.
Reisner, Sam, to Osco Corp. Key. 215,267, 9–23–69, Cl. D8—136.
Reitzel, Georg, to Drescher & Kiefer and Randolph-Rand Corp. Cigarette case. 215,128, 9–2–69, Cl. D85—2.
Rejniak, Stanley: *See*—
Kamp, George B., and Rejniak. 215,300.
Relaxacizor, Inc.: *See*—
Reinecke, Jean O., and Ortega. 214,656.
Reliable Luggage, Inc.: *See*—
D'Elia, Anthony N., and Stolarz. 213,744.
D'Elia, Anthony N., and Stolarz. 213,745.
D'Elia, Anthony N., and Stolarz. 213,746.
D'Elia, Anthony N., and Stolarz. 214,858.
D'Elia, Anthony N., and Stolarz. 216,075.
Rellis, Lawrence B. Aircraft. 213,528, 3–11–69, Cl. D71—1.
Rellis, Lawrence B. Aircraft. 213,735, 4–1–69, Cl. D71—1.
Rellis, Lawrence B. Aircraft. 215,894, 11–4–69. Cl. D71—1.
Renauld International, Ltd.: *See*—
Mitchell, Atherton R. 214,292.
Mitchell, Atherton R. 214,697.
Mitchell, Atherton R. 215,761.
Renquist, Bruce L.: *See*—
Thomas, Vitas T., Lovdahl, Lazzeroni, Aiello, and Renquist. 213,803.
Mitchell, Atherton R. 215,762.
Renquist, Bruce L., to J. I. Case Co. Tractor. 213,312, 2–18–69, Cl. D14—3.
Renquist, Bruce L., to J. I. Case Co. Fork lift or similar article transport vehicle. 214,127, 5–13–69, Cl. D14—3.
Rentschler, John H., to Minnesota Rubber Co. Power transmitting idler wheel. 214,813, 7–29–69, Cl. D55—1.
Republic Molding Corp.: *See*—
Heck, Edward E. 215,617.
Jasinski, William J. 216,367.
Resiflex Laboratories: *See*—
Lamb, Roger A. 213,845.
Resnick, Charles, to Fred Bronner Corp. Combined display and dispensing stand for merchandise. 214,218, 5–20–69, Cl. D80—9.
Resnick, Charles, to Fred Bronner Corp. Combined display and dispensing stand for merchandise. 214,351, 6–3–69, Cl. D80—9.
Resort Products, Inc.: *See*—
Haskin, Donald F., and Becker. 215,978.
Revolt, Inc.: *See*—
Thompson, Jack M. and M. J. 215,909.
Rexall Drug and Chemical Co.: *See*—
Swett, James B., and Smith. 215,331.
Reynolds, William A.: *See*—
Moran, Jack, Reynolds, and Steveson. 213,466.
Rhoades, Nolan K.: *See*—
Barnes, Leo, Rhoades, and Talley. 213,437.
Rhoades, Nolan K., to The Parker Pen Co. Writing instrument desk set base. 216,346, 12–16–69, Cl. D74—5.
Rias, Lucien, to Gonnet S.A. Dispersing container for liquid polish. 216,294, 12–16–69, Cl. D9—10.
Ricca, Joseph. Support frame for a table or similar article. 214,672, 7–15–69, Cl. D33—14.
Riccadonna, Ottavio, to Ottavio Riccadonna S.p.A. Bottle. 213,306, 2–18–69, Cl. D9—77.
Riccadonna, Ottavio, S.p.A.: *See*—
Riccadonna, Ottavio. 213,306.
Rice, Richard E. Combined fish bowl-ashtray and cigar lighter. 213,703, 4–1–69, Cl. D30—11.
Rich, John W. Combined chair and television viewer. 215,597, 10–14–69, Cl. D15—1.
Richards, Caryl, Inc.: *See*—
Berglass, Robert H. 215,780.
Richards, Paul E. Wireless transmitter housing. 215,661, 10–21–69, Cl. D26—14.
Richards, Paul E. Hat mounted loudspeaker. 215,662, 10–21–69, Cl. D26—14.
Richards, Richard G.: *See*—
Brunetti, Lawrence G., Gilmore, Goodrich, J. F. and V. H. Henshaw, and Richards. 215,005.
Richardson, Robert K. Toy steam shovel or similar article. 215,166, 9–9–69, Cl. D34—15.
Richardson, Stanley M., D.D.S.: *See*—
Robinson, Seymour. 216,262.
Richford Corp.: *See*—
Kneapler, Stephen J. 213,307.
Kneapler, Stephen J. 213,308.
Kneapler, Stephen J. 213,355.
Kneapler, Stephen J. 213,430.
Kneapler, Stephen J. 216,250.
Richmond, Colin B., II, to Towle Mfg. Co. Fork or similar article of flatware. 215,023, 8–19–69, Cl. D54—12.
Richmond, Colin B., II, to Towle Mfg. Co. Fork or similar article of flatware. 215,025, 8–19–69, Cl. D54—12.
Richmond, Colin B., II, to Towle Mfg. Co. Fork or similar article of flatware. 215,026, 8–19–69, Cl. D54—12.
Rickett, Edward. Blade for a vehicle windshield wiper. 213,100, 1–7–69, Cl. D14—6.
Rickmeier, Carl H., Jr., to The Vollrath Co. Buffet chafer. 213,717, 4–1–69, Cl. D44—15.

Rickmeier, Carl H., Jr., to The Vollrath Co. Buffet chafer. 213,899, 4–22–69, Cl. D44—15.
Ried, Leon P. Bowling score pin. 215,450, 9–30–69, Cl. D29—2.
Rienecker, Robert L. Playing board for table ball game. 215,106, 9–2–69, Cl. D34—5.
Rieth, Henry, to Kinsman Mfg. Co. Po-go stick. 215,552, 10–7–69, Cl. D34—5.
Rigsby, John W., to Merit Clothing Co., Inc. Wire hand for mannequin. 214,855, 8–5–69, Cl. D80—8.
Riley, Eugene J. Combined drinking cup and insulating holder therefor. 214,458, 6–17–69, Cl. D44—9.
Rimington, John K. Post member for a door section. 213,180, 1–14–69, Cl. D13—6.
Rimini, Tito, to Bras S.p.A. Beverage refrigerating dispenser. 214,234, 5–20–69, Cl. D94—3.
Rimm, Leonard J. Display container. 215,204, 9–16–69, Cl. D9—239.
Rin, Ensei, to Kabushiki Kaisha Ricoh. Sound record transferring apparatus. 214,381, 6–10–69, Cl. D26—14.
Ring, Peter A. Hip prosthesis. 213,282, 1–28–69, Cl. D83—1.
Ringis, Monroe E., to Champion Heater Co., Inc. Portable space heater. 215,094, 9–2–69, Cl. D23—91.
Ringlen, Arthur G., to Logistics Industries Inc. Display tray. 214,022, 5–6–69, Cl. D9—187.
Risher, John D. Combined golf club head and shaft socket. 213,382, 2–25–69, Cl. D34—5.
Rissolo, Herman A., to Branson Instruments, Inc. Ultrasonic cleaning apparatus. 215,018, 8–19–69, Cl. D49—11.
Ritsi, Michael C. Cover for use on a nursing bottle. 214,146, 5–13–69, Cl. D83—8.
Ritsi, Michael C. Nursing bottle. 214,147, 5–13–69, Cl. D83—8.
Ritsi, Michael C. Nursing nipple for use with a nursing bottle. 214,148, 5–13–69, Cl. D83—8.
Ritsi, Michael C. Screw cap for a nursing bottle. 215,705, 10–28–69, Cl. D9—287.
Ritter, William A., and E. J. Anderson. Camper top. 213,189, 1–14–69, Cl. D14—27.
Ritz, Theodore, Jr. Automotive stereo cartridge holder. 214,978, 8–12–69, Cl. D87—1.
Rival Mfg. Co.: *See*—
McCue, Daniel E. 213,160.
McCue, Daniel E. 214,775.
Rivenburgh, John G.: *See*—
Berger, Sol J., and Rivenburgh. 215,454.
Rivera, Benigno A., to H. D. Linden and A. Gordon. Wall mounted sound transducer. 216,122, 11–25–69, Cl. D26—14.
Rizner, Anton, to H. Fishlove & Co. Comb. 215,256, 9–16–69, Cl. D86—8.
Roane, Robert N. Chair. 213,363, 2–25–69, Cl. D15—1.
Robare, E. Peter, to American Standard, Inc. Perineal bath. 213,318, 2–18–69, Cl. D23—51.
Robbins, Jim, Seat Belt Co.: *See*—
Partridge, Gerald J. 215,196.
Robert, Tony. Holder for food bowl for pets. 213,377, 2–25–69, Cl. D30—13.
Robert, Tony. Holder for food bowl for pets. 213,378, 2–25–69, Cl. D30—13.
Robert, Tony. Holder for food bowl for pets. 213,379, 2–25–69, Cl. D30—13.
Robert, Tony. Seesaw swing for pets. 214,737, 7–22–69, Cl. D30—42.
Robert, Tony. Slide for pets. 214,738, 7–22–69, Cl. D30—42.
Roberts, Lyda B. Combined article holder and seat back cover for an automobile. 213,364, 2–25–69, Cl. D15—8.
Roberts, Shephard D. Contour aid cushion. 213,495, 3–11–69, Cl. D15—8.
Robertson, H. H., Co.: *See*—
Griffith, James L. 214,034.
Tischuk, Walter. 214,665.
Robertson, Robert H. Boat. 214,466, 6–17–69, Cl. D71—1.
Robichaud, Edmund J. Combined drawing table and lamp therefor. 215,162, 9–9–69, Cl. D33—14.
Robinette, George H.: *See*—
Bannasch, Richard F., and Robinette. 214,814.
Robinson, Harry C., to American Mfg. Co. Carousel for holding components of floral arrangements. 215,770, 10–28–69, Cl. D80—9.
Robinson, Seymour, to Stanley M. Richardson D.D.S. Fused electric multiple receptacle. 216,262, 12–9–69, Cl. D26—1.
Robson, William F., Jr. Portable seat for use by a cable splicer. 214,667, 7–15–69, Cl. D15—8.
Roccaforte, Harry I., E. M. Jordan, and W. C. Inch, to Weyerhaeuser Co. Ice cream carton. 214,879, 8–12–69, Cl. D9—240.
Roccaforte, Harry I., E. M. Jordan, and W. C. Inch. Ice cream carton. 215,414, 9–30–69, Cl. D9—240.
Roche, Thomas F. Table lamp base. 214,684, 7–15–69, Cl. D48—20.
Roche, Tomas F. Lantern with two lamps. 215,236, 9–16–69, Cl. D48—24.
Rocky Mountain Dental Products Co.: *See*—
Davis. Harold G., and Brunson. 214,564.
Rodden, Joseph P., to Crown Cork & Seal Co., Inc. Pull tab for a tear strip opener. 215,924, 11–11–69, Cl. D9—256.
Rode, Ronald J.: *See*—
Brown, Ellsworth R., and Rode. 215,525.
Brown, Ellsworth R., and Rode. 215,526.
Brown, Ellsworth R., and Rode. 215,527.
Jacobs, Julian R., Brown, and Rode. 215,528.
Jacobs, Julian R., and Rode. 215,529.
Schwall, Chester F., Jr., Rode and Amero. 215,524.
Rodmaker, Gerald M., and J. M. Burkart, to Kenner Products Co. Toy weaving machine. 215,318, 9–23–69, Cl. D34—15.
Rodriguez, Raoul E., to International Register Co. Timing device or similar article. 214,282, 5–27–69, Cl. D42—7.
Rodriguez, Raoul E., and C. W. Sundberg, to The Seeburg Corp. Phonograph cabinet. 214,096, 5–6–69, Cl. D56—4.
Rogers, Billy J. Food and beverage dispenser. 213,680, 4–1–69, Cl. D14—3.
Rogers, Meyric K., to Sunbeam Corp. Motor operated toothbrush handle. 215,687, 10–28–69, Cl. D4—15.
Rogers, William C. Aircraft antenna mast. 214,276, 5–27–69, Cl. D26—14.
Rogers, William J. Stand for supporting rotary machine tool cutters while being attached to machine spindle. 214,207, 5–20–69, Cl. D54—13.
Roggio, Robert S.: *See*—
Roggio, Salvatore, Jr., and R. S. Roggio. 213,845.
Roggio, Salvatore, Jr., and R. S. Roggio. 214,175.
Roggio, Salvatore, Jr., and R. S. Roggio, to Lehman Specialty Co. Clothes hamper. 213,845, 4–15–69, Cl. D49—8.2.
Roggio, Salvatore, Jr., and R. S. Roggio, to Lehman Specialty Co. Bathroom cabinet. 214,175, 5–20–69, Cl. D33—16.
Rohling, Elizabeth E. Cake pan holder. 215,229, 9–16–69, Cl. D44—10.
Romin, Alvin, Jr., to Sunbeam Corp. Snow thrower. 213,512, 3–11–69, Cl. D35—2.
Rondepierre, Jules G.: *See*—
Kraus, Richard W., and Rondepierre. 213,144.
Kraus, Richard W., and Rondepierre. 213,145.
Ronson Corp.: *See*—
Cabell, Douglas N. 213,244.
Cabell, Douglas N. 214,062.
Rakocy, William J. 214,026.
Rackocy, William J. 214,184.
Rakocy William J. 214,416.
Roper Corp.: *See*—
Clarke, George C., Mango, and Goodman. 213,682.
Gobin, Donald L., and Goodman. 215,111.
Roper, Gilbert I., and J. C. Grantham. Wall-mounted support rack for a sousaphone. 213,629, 3–25–69, Cl. D33—3.
Rosanna Knitted Sportswear, Inc.: *See*—
Starkman, Sanford J. 215,473.
Rose, Herbert M.: *See*—
Joy, Theodore K., and Rose. 215,125.
Rose, Richard A. Modular block. 214,031, 5–6–69, Cl. D13—1.
Rosenberg, Arnold. Game board. 213,705, 4–1–69, Cl. D34—5.
Rosenel, Arthur L. Aquarium filter. 213,691, 4–1–69, Cl. D23—4.
Rosenfeld, George, to The Singer Co. Sewing machine frame. 214,853, 8–5–69, Cl. D70—1.
Rosenfeld, George, to The Singer Co. Sewing machine frame or similar article. 216,054, 11–18–69, Cl. D70—1.
Rosfeld, Jack H., to Texize Chemicals, Inc. Bottle or similar article. 214,875, 8–12–69, Cl. D9—116.
Rosing, Helen J. Combined playhouse and slide. 213,506, 3–11–69, Cl. D34—5.
Ross, Charles A. Stage lighting system unit or the like. 213,903, 4–22–69, Cl. D48—20.
Ross, John. Portable dish washer. 213,637, 3–25–69, Cl. D49—1.
Ross, John H., Jr. Tank ball. 214,499, 6–24–69, Cl. D23—33.
Ross, Lloyd D., Jr., to Electronic Music Corp. Portable plural channel electronic amplifier. 214,057, 5–6–69, Cl. D26—14.
Ross, Sherwood B. Operating lever console. 213,747, 4–1–69, Cl. D90—1.
Ross, Sherwood B. Handlebar for a two-wheeled vehicle or the like. 214,354, 6–3–69, Cl. D90—11.
Rossbach, Peter G.: *See*—
Hunnicutt, Wayne E., and Rossbach. 215,746.
Rossi, Anthony M., to Henry's Drive In, Inc. Building. 215,147, 9–9–69, Cl. D13—1.
Rossi, Peter S. Illuminable sign. 215,534, 9–30–69, Cl. D96—12.
Rosta, William N., to VLM Corp. Vertical lift aircraft. 215,971, 11–11–69, Cl. D71—1.
Rotaprint Aktiengesellschaft: *See*—
Czapla, Wolfgang. 213,527.
Roth, Eric M. Particle remover. 214,977, 8–12–69, Cl. D86—13.
Rothweiler, Richard C., to Square D Co. Switch operating handle. 214,275, 5–27–69, Cl. D26—13.
Rottinghaus, Norma I. Cake cutter. 216,325, 12–16–69, Cl. D44—1.
Routh, Larry L., and J. Contratto. Outdoor quartz-halogen lamp lighting fixture. 214.582, 7–1–69, Cl. D48—20.6.
Routh, Larry L., and J. Contratto. Outdoor mercury lamp lighting fixture. 214,583, 7–1–69, Cl. D48—31.
Routh, Larry L., and J. Contratto. Outdoor mercury lamp lighting fixture. 214,584, 7–1–69, Cl. D48—31.
Rowe International, Inc.: *See*—
Boldt, Melvin H. 213,338.
Boldt, Melvin H. 215,760.
Koch, Walter L., and Day. 214,341.
Koch, Walter L., and Day. 214,948.
Rubbermaid Inc.: *See*—
Berend, Peter M. 213,571.
Taylor, William D. 213,602.
Taylor, William D. 214,524.
Rubery Owen and Co.: *See*—
Parker, Reginald C. 214.621.
Parker, Reginald C. 216,189.
Parker, Reginald C. 216,190.
Parker, Reginald C. 216,191.

Rubin, Irving. Meat platter. 213,575, 3–18–69, Cl. D44—10.
Rubinstein, Helena, Inc.: *See*—
Silson, Victor. 215,985.
Rucker Co., The: *See*—
Abdo, Joseph T. 214,369.
Rudd, Calvin G., to Eagle-Picher Industries, Inc. Combined light for stage and advertising use and control unit therefor. 214,189, 5–20–69, Cl. D48—20.
Rudd, Calvin G., to Eagle-Picher Industries, Inc. Combined light for stage and advertising use and control therefor. 214,191, 5–20–69, Cl. D48—20.
Ruggieri, Albert P. Fruit peeler. 214,228, 5–20–69, Cl. D89—1.
Ruggles, Kay L., to American Standard Inc. Water closet enclosure or similar article. 213,958, 4–29–69, Cl. D23—71.
Ruggles, Kay L., and N. Van Skynawk, to American Standard Inc. Combined bathtub and shower enclosure. 215,717, 10–28–69, Cl. D23—49.
Russel, Iris W. Eye glass case. 213,526, 3–11–69, Cl. D57—1.
Russell, Earl W. Building. 214,887, 8–12–69, Cl. D13—1.
Russell, Richard H.: *See*—
Gamble, William L., Russell, and Tarozzi. 214,836.
Russo, Edward. Illuminable hat. 214,012, 5–6–69, Cl. D2—231.
Rutherford, Charles: *See*—
Dittmar, Frank L., Jr., and Rutherford. 213,416.
Rutledge, Garry W. Aquarium or similar article. 216,129, 11–25–69, Cl. D30—6.
Ryckman, Peter N., and W. E. Sparks, to Westinghouse Electric Corp. Toothbrush charging unit and holder or the like. 213,539, 3–18–69, Cl. D4—16.
Ryder da Costa, Jose J. P. P. Combined bottle and tumbler. 215,818, 11–4–69, Cl. D9—10.
Rypinski, Donald F. Hull for sail-propelled vehicle. 214,785, 7–29–69, Cl. D14—3.
Rzeteiny, Bernard, to Furniture Production Systems, Inc. Shelf. 213,114, 1–7–69, Cl. D33—3.
SCM Corp.: *See*—
Abend, Chester J., and Gaska. 214,542.
Carlson, Robert O. 214,852.
Clark, Clayton H., and Adams. 215,037.
Saad, Michel H. Foot measuring apparatus. 213,797, 4–8–69, Cl. D52—6.
Sabat, John. Golf club head. 215,101, 9–2–69, Cl. D34—5.
Sabella, Edward J., to International Business Machines Corp. Optical input unit. 213,446, 3–4–69, Cl. D26—5.
Sachs, Charles M., to International Playtex Corp. Brassiere. 213,819, 4–15–69, Cl. D2—24.
Sachs, Charles M. Brassiere. 214,009, 5–6–69, Cl. D2—24.
Sackinger, Thomas A.: *See*—
Barnett, Burton, Raymes, and Sackinger. 213,146.
Saeedi, Ali R.: *See*—
Latch, Mason, and Saeedi. 215,458.
Safari Enterprises, Inc.: *See*—
Daniel, Eugene T. 215,833.
Safety Education, Inc.: *See*—
Mulder, Kenneth W. 214,008.
Saftlas, Sam. Embossed textile fabric. 214,658, 7–8–69, Cl. D92—112.
St. Amand, Elmer F., to American Hospital Supply Corp. Medical liquid container. 214,973, 8–12–69, Cl. D83—1.
St. Amand, Elmer F., to American Hospital Supply Corp. Medical liquid container. 214,974, 8–12–69, Cl. D83—1.
St. Amand, Elmer F., to American Hospital Supply Corp. Medical liquid container. 214,975, 8–12–69, Cl. D83—1.
St. Martin, Raymond: *See*—
Annis, Martin, Davidson, La Selva, and St. Martin. 213,805.
St. Regis Paper Co.: *See*—
Mair, Francis M. 215,330.
Sakakibara, Yo. Electronic teaching unit. 215,293, 9–23–69, Cl. D25—1.
Salem, Kenneth G. Opaque gas meter cover. 213,396, 2–25–69, Cl. D52—6.
Salisky, Sallyann Z., to International Playtex Corp. Girdle. 213,666, 4–1–69, Cl. D2—2.
Salisky, Sallyann Z. Panty girdle. 213,667, 4–1–69, Cl. D2—4.
Salkoff, Goodwin, to Atlas Metal Industries, Inc. Frying pan. 215,467, 9–30–69, Cl. D44—1.
Salm, Arthur, Inc.: *See*—
Laughlin, Clayton A. 214,470.
Laughlin, Clayton A. 215,041.
Salmans, Robert R., to Ceramics of Kansas, Inc. Ceramic casting apparatus. 213,997, 4–29–69, Cl. D55—1.
Salsgiver, John P., to United Technical Corp. Stool. 216,257, 12–9–69, Cl. D15—8.
Salton, Inc.: *See*—
Mann, Samuel J. 216,213.
Samhammer, Clair A., to Samsonite Corp. Luggage case. 215,389, 9–23–69, Cl. D87—5.
Sammons, William W.: *See*—
Brindley, Robert E., Chase, and Sammons. 213,635.
Samson Plastics, Inc.: *See*—
Segal, Herbert A. 215,980.
Samsonite Corp.: *See*—
Ellsworth, Arthur W., and Fujioka. 214,493.
Ellsworth, Arthur W., and Fujioka. 214,494.
Mills, Thomas C. 214,251.
Samhammer, Clair A. 215,389.
Samtambrogio, Carlo, to L. Batlin & Son, Inc. Ice bucket. 214,521, 6–24–69, Cl. D44—1.
Samuel, Inc.: *See*—
Halaby, Samuel A., Jr., and Meisenzahl. 216,309.
San Angelo Die Casting & Mfg. Co., Inc.: *See*—
Hart, Raymond V. 214,298.
San Diego Hockey Club, The: *See*—
Thompson, Richard E. 214,278.
San Fernando Air Parts, Inc.: *See*—
Phillips, George W., Hitt, and Slonneger. 214,197.
Sand, Robert H., to Elster's. Restaurant booth seat. 214,245, 5–20–69, Cl. D15—11.
Sandefur, Douglas M., to Sandefur Engineering Co., Inc. Work bench. 215,931, 11–11–69, Cl. D16—2.
Sandefur Engineering Co., Inc.: *See*—
Sandefur, Douglas M. 215,931.
Sanderson, George H. Couch or similar article. 213,617, 3–25–69, Cl. D15—11.
Sanderson, Leon C., to Ampex Corp. Magnetic tape transport. 213,445, 3–4–69, Cl. D26—5.
Sanderson, Leon C., to Ampex Corp. Magnetic tape transport. 214,058, 5–6–69, Cl. D26—14.
Sanford, Arthur C. Residential building. 216,108, 11–25–69, Cl. D13—1.
Sangiovanni, Charles A., to The B. F. Goodrich Co. Tire. 214,355, 6–3–69, Cl. D90—20.
Sanjo Utility Mfg. Co. Inc.: *See*—
Hallahan, Daniel T. 214,107.
Sanyo Electric Co., Ltd.: *See*—
Tominaga, Naoki. 215,620.
Tominaga, Naoki. 215,621.
Sapper, Richard F.: *See*—
Zanuso, Marco, and Sapper. 215,368.
Sarah, Thomas F.: *See*—
Bittaker, Charles E., Jr., and Sarah. 214,497.
Bittaker, Charles E., Jr., and Sarah. 216,193.
Sargent, Richard W.: *See*—
Vicknair, Thomas M., and Sargent. 215,092.
Satake, Yoshiharu, to Kabushiki Kaisha Satake Seisakusho. Screen for rice-bran removing device. 215,122, 9–2–69, Cl. D55—1.
Sato, Masaaki, and S. Shigetomi, to Olympus Optical Co. Ltd. Miniature tape recorder. 214,451, 6–17–69, Cl. D26—14.
Sato, Norio: *See*—
Shimano, Keizo, and Sato. 213,604.
Shimano, Keizo, and Sato. 213,605.
Shimano, Keizo, and Sato. 213,655.
Sato, Stephens N., to Ivac Corp. Clamp for intravenous feeding tubes or the like. 213,849, 4–15–69, Cl. D54—13.
Sato, Stephens N., to Ivac Corp. Computer for drop flow rate measurement or the like. 215,562, 10–7–69, Cl. D52—6.
Saunda, Inc.: *See*—
Munson, Austin H., Grawoig, and Martin. 214,905.
Scaglione, Donald, to Dayco Corp. Textile fabric. 215,910, 11–4–69, Cl. D92—1.
Scandia Packaging Machinery Co.: *See*—
Alexander, James. 216,295.
Scarnato, Thomas J., and P. C. Gordon, to International Harvester Co. Riveting tool. 213,524, 3–11–69, Cl. D54—10.
Schaaf, Robert: *See*—
Howard, Sol, and Schaaf. 213,586.
Schaedler, Raymond J., to Chicago Pneumatic Tool Co. Power operated wrench. 214,776, 7–29–69, Cl. D8—61.
Schaefer, George E., to Brunswick Corp. Billiard table or the like. 214,567, 7–1–69, Cl. D34—3.
Schaefer, George E., to Brunswick Corp. Billiard table or the like. 214,674, 7–15–69, Cl. D34—3.
Schaefer, Harold W., and S. E. Hohulin, to National Union Electric Corp. Suction cleaner. 214,340, 6–3–69, Cl. D49—14.
Schaible, Clifford R. Mail holder or the like. 215,378, 9–23–69, Cl. D74—9.
Scharfenberg, George T. Griddle. 213,715, 4–1–69, Cl. D44—1.
Schellens, Henricus F. T., to North American Philips Co., Inc. Electric shaver. 213,664, 3–25–69, Cl. D95—3.
Schellens, Henricus F. T., to North American Philips Co., Inc. Combined steam and spray iron. 214,753, 7–22–69, Cl. D49—6.
Schellens, Henricus F. T., to U.S. Philips Corp. Fan heater. 214,789, 7–29–69, Cl. D23—73.
Schenck, James G. Glove and boot warmer-drier fixture. 213,129, 1–7–69, Cl. D49—1.
Schenley Industries, Inc.: *See*—
Du Pree, Ernest L. 215,085.
Heintze, Walter T. 214,428.
Heintze, Walter T. 215,086.
Heintze, Walter T. 215,819.
Kassin, Ronald A. 214,427.
Scherer, Nancy A., to Cannon Mills Co. Pillowcase or similar article of bed linen. 215,637, 10–14–69, Cl. D92—26.
Schick Electric Inc.: *See*—
Boldt, Melvin H. 213,165.
Schickel, William J., and A. Re; said Re assor. to said Schickel. Folding screen. 215,161, 9–9–69, Cl. D33—1.
Schier, Jacques, to McDonald's Corp. Carton or similar article. 216,006, 11–18–69, Cl. D9—232.
Schier, Robert W.: *See*—
Beckman, Charles F., and Schier. 213,460.
Schier, Robert W., to Krueger Metal Products, Inc. Coat hanger. 213,149, 1–7–69, Cl. D80—8.
Schier, Robert W., and L. F. Odar, to Krueger Metal Products, Inc. Coat hook. 214,324, 6–3–69, Cl. D33—8.
Schier, Robert W., and L. F. Odar, to Krueger Metal Products, Inc. Clothes hook. 214,325, 6–3–69, Cl. D33—8.
Schier, Robert W., and L. D. Singer, to Krueger Metal Products, Inc. Molded seat shell. 214,622, 7–8–69, Cl. D15—8.

Schier, Robert W., and L. D. Singer, to Krueger Metal Products, Inc. Costumer. 214,922, 8–12–69, Cl. D33—8.
Schier, Robert W., and L. F. Odar, to Krueger Metal Products, Inc. Shelf. 214,923, 8–12–69, Cl. D33—8.
Schier, Robert W., and L. F. Odar, to Krueger Metal Products, Inc. Angle coat hook. 214,924, 8–12–69, Cl. D33—8.
Schiffer, Henry C., to The Miller Co. Lighting console. 214,079, 5–6–69, Cl. D48—4.
Schiller, James R., to Speedring Corp. Electronic gauge. 215,055, 8–26–69, Cl. D26—1.
Schiller, Wilma M. Citrus juice extractor. 213,485, 3–4–69, Cl. D89—1.
Schiltz, Joseph E.: *See*—
Chmela, John F., and Schiltz. 215,107.
Schindler, Anthony, to American Optical Corp. Combined eyeshade and clip-on sunglasses. 214,344, 6–3–69, Cl. D57—1.
Schlamp, Herman. Cigarette lighter. 216,273, 12–9–69, Cl. D48—27.
Schlein, Seymour N., to Textron Inc. Traffic control marker base. 214,965, 8–12–69, Cl. D72—1.
Schloffhauber, Arnold C., to Provendi S.A. Soap holder. 214,633, 7–8–69, Cl. D33—25.
Schlumberger Ltd. (Schlumberger N.V.): *See*—
Jakobsen, Robert E. K. 213,116.
Jakobsen, Robert E. K. 213,117.
Jakobsen, Robert E. K. 213,321.
Parker, Wayland B. 213,952.
Parker, Wayland B. 213,953.
Parker, Wayland B. 214,371.
Parker, Wayland B. 214,372.
Parker, Wayland B. 214,373.
Parker, Wayland B. 215,280.
Parker, Wayland B. 216,302.
Parker, Wayland B. 216,303.
Parker, Wayland B. 216,304.
Schmid, Fred, to Chicken Delight, Inc. Restaurant facade or the like. 213,825, 4–15–69, Cl. D13—1.
Schmidt, Gerald W.: *See*—
Adickes, Cecil F., and Schmidt. 215,165.
Adickes, Cecil F., and Schmidt. 215,244.
Schmidt, Gunter, to Paul Wirths Metallwarenfabrik. Fork or similar article of flatware. 213,337, 2–18–69, Cl. D54—12.
Schmidt, Mary N. Sign. 216,242, 12–2–69, Cl. D96—12.
Schmidt, Oscar, International, Inc.: *See*—
Peterson, Glen R., Jr. 213,525.
Peterson, Glen R., Jr., and McKay. 215,887.
Schmidt, Roger M., to Minnesota Mining & Mfg. Co. Ribbon ornament for a package. 214,231, 5–20–69, Cl. D92—1.
Schnadig Corp.: *See*—
Gera, Robert A. 213,774.
Gera, Robert A. 213,775.
Gera, Robert A. 213,776.
Schneider, Irwin, to Imperial Arts Corp. Insulated beverage server. 213,900, 4–22–69, Cl. D44—21.
Schnur, Martin: *See*—
Appel, Mel, and Schnur. 213,309.
Appel, Mel, and Schnur. 214,130.
Schoenfeld, August C. Motel sign. 215,136, 9–2–69, Cl. D96—12.
Schoenfield, Palmer J., to Marvin Glass & Associates. Light writing toy. 214,279, 5–27–69, Cl. D34—15.
Schork, Peter A., Jr. Lamp post. 213,127, 1–7–69, Cl. D48—31.
Schramm, Buford J., to Monarch Luggage Co., Inc. Helicopter. 213,926, 4–22–69, Cl. D71—1.
Schramm, Buford J. Frame for a helicopter. 213,927, 4–22–69, Cl. D71—1.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle frame. 213,347, 2–18–69, Cl. D90—8.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle. 213,753, 4–1–69, Cl. D90—20.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle chain guard. 214,979, 8–12–69, Cl. D90—5.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Riding-type power lawnmower. 215,110, 9–2–69, Cl. D40—1.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle frame. 215,986, 11–11–69, Cl. D90—8.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle handlebar. 215,987, 11–11–69, Cl. D90—11.
Schrock, Harry E. Stove. 214,604, 7–1–69, Cl. D81—10.
Schroeder, Frank J. Desk set. 214,348, 6–3–69, Cl. D74—5.
Schroer, Charles E.: *See*—
Hamilton, John J., and Schroer. 215,858.
Schubert, Ralph E., to Westinghouse Electric Corp. Mobile X-ray apparatus. 215,981, 11–11–69, Cl. D83—1.
Schuette, Carl J. Religious cross. 213,449, 3–4–69, Cl. D29—23.
Schuh, John E.: *See*—
Chelmo, Leon A., and Schuh. 213,522.
Schuil, Elmer H.: *See*—
Kliewer, Homer F., and Rawson. 215,145.
Kliewer, Homer F., and Rawson. 215,146.
Schulein, Benjamin M., Jr., and J. Dreyer. Dog amusement device. 214,631, 7–8–69, Cl. D30—42.
Schultz, Charles J. Game board. 213,384, 2–25–69, Cl. D34—5.
Schultz, Charles J. Game board. 213,890, 4–22–69, Cl. D34—5.
Schultz, Charles J. Game board. 213,891, 4–22–69, Cl. D34—5.
Schultz, Charles J. Game board. 214,247, 5–20–69, Cl. D34—5.
Schultz, Charles J. Game board. 214,248, 5–20–69, Cl. D34—5.
Schultz, Charles J. Game board. 214,249, 5–20–69, Cl. D34—5.
Schultz, Charles J. Game board. 214,250, 5–20–69, Cl. D34—5.
Schwab, Bernard J., to Stimulant Products, Inc. Magnifier. 215,245, 9–16–69, Cl. D57—1.
Schwab, Richard H.: *See*—
Johnson, Robert T., Miller, and Schwab. 215,504.
Schwall, Chester F., Jr., R. J. Rode, and N. G. Amero, to The Armstrong Rubber Co. Tire. 215,524, 9–30–69, Cl. D90—20.
Schwartz, Harold N. Rug or similar article. 214,612, 7–1–69, Cl. D92—21.
Schwartz, Harold N. Rug or similar article. 214,613, 7–1–69, Cl. D92—21.
Schwartz, Harold N. Rug or similar article. 214,614, 7–1–69, Cl. D92—21.
Schwartz, Harold N. Bedspread or similar article. 215,397, 9–23–69, Cl. D92—2.
Schwartz, Jack H., to National Biological Corp. Combined lamp hood and support therefor for infant incubators. 215,567, 10–7–69, Cl. D83—1.
Schwartz, Leon: *See*—
Karow, William E., and Simpson. 213,851.
Schwartz, Robert A. D., and P. W. Pfeiffer, to United Lighting and Ceiling Co. Lighting louver. 215,558, 10–7–69, Cl. D48—16.
Schwartz, Ronald S., to Northrop Corp. Trimmer for lead wires of printed circuit boards. 215,673, 10–21–69, Cl. D55—2.
Schwartz, Sam, to Torch Rubber Co., Inc. Overshoe. 215,139, 9–9–69, Cl. D2—272.
Schwartz, Sidney. Combined flashlight and mirror. 215,392, 9–23–69, Cl. D86—10.
Schwarz, Heinz, to Karl M. Reich Machinenfabrik. Pneumatic nailing machine. 214,208, 5–20–69, Cl. D54—14.
Schwenk, Edwin W.: *See*—
Jones, Ernie G., Jr., and Schwenk. 213,956.
Schwertley, Suzanne. Pet animal carrier. 215,056, 8–26–69. Cl. D30—1.
Schwertley, Suzanne. Pet bed. 216,400, 12–30–69, Cl. D30—41.
Scott & Fetzer Co., The: *See*—
Fullerton, Arthur M. 214,539.
Williams, Clyde H. 214,196.
Scott, Thomas E. Tray. 213,631, 3–25–69, Cl. D44—10.
Scovill Mfg. Co.: *See*—
Price, Charles B., and Braun. 215,872.
Williams, Selden T. 213,854.
Sea Island Industries: *See*—
Mooneyhan, Roy E. 213,928.
Seagram, Joseph E., & Sons, Inc.: *See*—
Siebel, Frederick. 213,599.
Sealy Inc.: *See*—
Haas, Howard G., and Corrigan. 215,263.
Season-All Industries, Inc.: *See*—
Biro, Alexander J. 213,676.
Seeburg Corp., The: *See*—
O'Neil, Robert A. 214,850.
Patch, Alan R., and Broman. 216,019.
Rodriguez, Raoul E., and Sundberg. 214,096.
Sundberg, Carl W. 214,649.
Seeley, Leonard: *See*—
Beich, Frank R., and Seeley. 214,090.
Beich, Frank R., and Seeley. 215,021.
Seelig, Oliver N., to Wyomissing Corp. Elastic band. 215,919, 11–11–69, Cl. D3—32.
Segal, Herbert A., to Samson Plastics, Inc. Bed pan. 215,980, 11–11–69, Cl. D83—1.
Seger, Ben J. Lamp shade. 215,172, 9–9–69, Cl. D48—16.
Seger, Ben J. Lamp shade. 215,173, 9–9–69, Cl. D48—16.
Seger, Ben J. Lamp. 215,475, 9–30–69, Cl. D48—20.
Seholtz, Walter, to Sternco Industries, Inc. Aquarium underwater filter unit. 216,259, 12–9–69, Cl. D23—4.
Seibel, Ben, to Fostoria Glass Co. Plate. 214,071, 5–6–69, Cl. D36—2.
Seibel, Ben, to Fostoria Glass Co. Nappy. 216,268, 12–9–69. Cl. D36—2.
Siebel, Ben, to Fostoria Glass Co. Goblet. 216,269. 12–9–69. Cl. D36—8.
Seidel, Ralph H., to Zenith Radio Corp. Portable audiometer. 215,238, 9–16–69, Cl. D52—6.
Seismograph Service Corp.: *See*—
Crossland, Edward J., Walters, and Randall. 215,075.
Laws, Ira G. 215,633.
Selinger, Norman R., and D. C. Herbert. Mobile video tape recorder cart. 213,570, 3–18–69, Cl. D33—14.
Seller, Susan F. Toothbrush and dentifrice holder for bathrooms. 215,110, 9–2–69, Cl. D33—27.
Sellon, Raymond N.: *See*—
Harbeck, Charles L., and Sellon. 214,040.
Selwyn, Paul. Jewelry box. 216,350, 12–16–69, Cl. D87—1.
Serra, Ralph A.: *See*—
Edwards, James H., and Serra. 214,404.
Service Oil Co., The: *See*—
Platt, Sidney S. 216,106.
Sescon Industries, Inc.: *See*—
Giebelhausen, Charles W. 215,364.
Sesholtz, Walter, to Sternco Industries, Inc. Heater for aquarium water. 214,165, 5–20–69, Cl. D23—87.
Sesholtz, Walter, to Sternco Industries, Inc. Housing for an aquarium heater and filter. 215,283, 9–23–69, Cl. D23—4.
Sestak, Joseph T.: *See*—
Gantz, Carroll M., Hose, and Sestak. 214,407.
Gantz, Carroll M., Hose, and Sestak. 215,489.
Gantz, Carroll M., Sestak, and Hose. 213,132.

Sestak, Joseph T., to The Hoover Co. Electric iron. 215,488, 9–30–69, Cl. D49—6.
Sewell, Lisa, and L. E. Charity. Canopy. 214,226, 5–20–69, Cl. D88—3.
Seymour, Merritt W., to Owens-Corning Fiberglas Corp. Shower stall. 213,624, 3–25–69, Cl. D23—49.
Seymour, Merritt W., to Owens-Corning Fiberglas Corp. Shower stall. 215,289, 9–23–69, Cl. D23—57.
Seymour, Merritt W., to Owens-Corning Fiberglas Corp. Shower stall. 215,290, 9–23–69, Cl. D23—57.
Seymour, Ronald L., and G. T. Guth, to Sunbeam Corp. Electric shaver. 214,823, 7–29–69, Cl. D95—3.
Shaffer, Burton, and P. J. Burnstein, to Hamilton Humidity, Inc. Humidifier reservoir. 215,657, 10–21–69, Cl. D23—146.
Shakespeare Co.: *See*—
Bittaker, Charles E., and Sarah. 216,193.
Velte, Carl J., Jr. 213,619.
Velte, Carl J., Jr. 213,620.
Shannon, George T., to M. G. Ellsworth. Dart board. 214,568, 7–1–69, Cl. D34—5.
Shapira, Nathan. Wrapping paper or similar article. 213,140, 1–7–69, Cl. D59—2.
Shapira, Nathan. Wrapping paper or similar article. 213,141, 1–7–69, Cl. D59—2.
Shapira, Nathan, to Cartiera Di Cairate S.p.A. Container for paper napkins or the like. 213,219, 1–14–69, Cl. D52—2.
Shapira, Nathan. Wrapping paper or similar article. 213,730, 4–1–69, Cl. D59—2.
Shapiro, Bernard D. Earring. 216,149, 11–25–69, Cl. D45—9.
Sharpe, Everett E., and J. E. Hughes, to Better Packages, Inc. Strip material dispenser. 214,600, 7–1–69, Cl. D74—1.
Shaw, Melvin: *See*—
Klamer, Reuben B., Allen, and Shaw. 214,384.
Klamer, Reuben B., Allen, and Shaw. 214,513.
Klamer, Reuben B., Allen, and Shaw. 214,514.
Klamer, Reuben B., Allen, and Shaw. 214,515.
Klamer, Reuben B., Allen, and Shaw. 214,516.
Klamer, Reuben B., Allen, and Shaw. 214,517.
Shaw & Slavsky, Inc.: *See*—
Slavsky, Robert J. 213,755.
Shea, William E., to Sheetmaster Corp. Tachometer. 213,523, 3–11–69, Cl. D52—6.
Sheeter, Walter R., to All-Power Mfg. Co. Spray gun. 213,556, 3–18–69, Cl. D23—17.
Sheetmaster Corp.: *See*—
Shea, William E. 213,523.
Sheffer, William H., to Tweeten Fibre Co. Inc. Tip sander for billard or pool cue. 213,386, 2–25–69, Cl. D37—1.
Shields, Darvin D.: *See*—
Dransfield, Clifford D., Shields, and Paxton. 216,110.
Sheldon, E. H., & Co.: *See*—
Carlson, Arthur W., and Linacre. 215,281.
Shell Oil Co.: *See*—
Anderson, Victor F. 213,948.
Anderson, Victor F., and Atwood. 213,972.
Anderson, Victor F., and Atwood. 214,786.
Anderson, Victor F. 216,360.
Sheppley, William S., Jr., to International Business Machines Corp. Display copier for data processing systems or the like. 213,596, 3–18–69, Cl. D61—1.
Sherer, Carl W. Snowmobile trailer. 215,542, 10–7–69, Cl. D14—24.
Sheriff, Robert C., to Spartanics, Ltd. Sensing head for stacked corrugated counter. 213,133, 1–7–69, Cl. D52—1.
Sherwood, John W., and J. W. Sherwood III. Vertical lift flying machine. 213,529, 3–11–69, Cl. D71—1.
Sherwood, John W., III: *See*—
Sherwood, John W., and J. W. Sherwood III. 213,529.
Shigetomi, Sadao: *See*—
Sato, Masaaki, and Shigetomi. 214,451.
Shiiba, Kuniyoshi, to Kramex Corp. Portable X-ray machine. 216,285, 12–9–69, Cl. D83—1.
Shiman, Daniel, to Shiman Mfg. Co., Inc. Interlocking finger ring. 215,329, 9–23–69, Cl. D45—10.
Shiman Mfg. Co., Inc.: *See*—
Shiman, Daniel. 215,329.
Shimano, Keizo, and N. Sato. Gear shifting console for a bicycle. 213,604, 3–18–69, Cl. D90—1.
Shimano, Keizo, and N. Sato. Gear shifting console for a bicycle. 213,605, 3–18–69, Cl. D90—1.
Shimano, Keizo, and N. Sato. Gear shifting console for a bicycle. 213,655, 3–25–69, Cl. D90—1.
Shimasaki, Yoshiharu A. Voltammeter. 213,878, 4–22–69, Cl. D26—1.
Shimasaki, Yoshiharu A. Combined ampere volt and resistormeter. 214,378, 6–10–69, Cl. D26—1.
Shimono, Tadao. Cleaner for phonograph records. 218,110, 1–7–69, Cl. D26—14.
Shipley, Darrell R. Condiment injector. 214,581, 7–1–69, Cl. D44—29.
Shipley, Darrell R. Twin lens reflex camera. 214,595, 7–1–69, Cl. D61—1.
Shireman, Cyril G.: *See*—
Colwell, Guy J., Libby, Shireman, and Weissman. 215,234.
Colwell, Guy J., Libby, Shireman, and Weissman. 215,334.
Shirey, James W., to L-Coil Research. Mobile radio antenna. 213,099, 1–7–69, Cl. D14—6.
Shlesinger, Bernard E., Jr. Reed switch for electrical components. 215,441, 9–30–69, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch for electrical components. 215,442, 9–30–69, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch for electrical components. 215,444, 9–30–69, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch for electrical components. 215,445, 9–30–69, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch for electrical components. 215,446, 9–30–69, Cl. D26—13.
Shmurak, Benjamin, R. Projain, T. Kelleher, and M. G. Paulson, to Lambda Electronics Corp. Power supply. 215,604, 10–14–69, Cl. D26—15.
Shmurak, Benjamin, R. Projain, T. Kelleher, and M. G. Paulson, to Lambda Electronics Corp. Dual power supply. 215,605, 10–14–69, Cl. D26—15.
Shoemaker, Don S. Combined seating and table unit. 214,041, 5–6–69, Cl. D15—1.
Shore, Sherman J., to Napco, Inc. Corner railing mount. 213,135, 1–7–69, Cl. D54—1.
Shore, Sherman J., to Napco, Inc. Side railing mount. 213,910, 4–22–69, Cl. D54—1.
Shorr, Robert G. Holder for television antenna. 214,913, 8–12–69, Cl. D26—14.
Showalter, Joseph S., to Boone Bait Co., Inc. Weighted fish hook. 216,118, 11–25–69, Cl. D22—27.
Shulick, Robert J., and H. V. Swanson, to Babson Bros. Co. Milking apparatus. 214,481, 6–17–69, Cl. D98—1.
Shutt, Melvin S., to Phillips Petroleum Co. Can. 214,995, 8–19–69, Cl. D9—175.
Sickler, Donald L., to National Industries, Inc. Chair or similar article. 214,164, 5–20–69, Cl. D15—1.
Sickler, Donald L., to National Industries, Inc. Stool. 215,429, 9–30–69, Cl. D15—8.
Sides, James E. Antenna spinner. 213,986, 4–29–69, Cl. D34—15.
Siebel, Frederick, to Joseph E. Seagram & Sons, Inc. Modular merchandising stand or similar article. 213,599, 3–18–69, Cl. D80—9.
Siegel, William J. Solder extractor. 214,865, 8–12–69, Cl. D8—30.
Sieler, G. Jerome. Public address system. 216,018, 11–18–69, Cl. D26—14.
Sierra Engineering Co.: *See*—
Wyckoff, Marlin H. 213,085.
Silson, Victor, to Helena Rubinstein, Inc. False eyelash applicator. 215,985, 11–11–69, Cl. D86—10.
Silverman, Lester. Jewelry display stand. 214,350, 6–3–69, Cl. D80—9.
Sims, John D., Jr.: *See*—
Kapper, Henry, and Sims. 214,704.
Simms, James B. Template. 214,089, 5–6–69, Cl. D52—6.
Simon, Jean R., to Bausch & Lomb Inc. Pair of sun glasses. 213,595, 3–18–69, Cl. D57—1.
Simon, Jean R., to Bausch & Lomb Inc. Pair of spectacles. 214,139, 5–13–69, Cl. D57—1.
Simon, Jean R., to Bausch & Lomb Inc. Pair of sunglasses. 216,337, 12–16–69, Cl. D57—1.
Simon, Joseph D. Hanging-bird display toy. 213,982, 4–29–69, Cl. D34—15.
Simon, Joseph D. Cradle gym toy. 213,983, 4–29–69, Cl. D34—15.
Simonelli, Robert M.: *See*—
Steinbach, Thomas M., and Simonelli. 214,001.
Steinbach, Thomas M., and Simonelli. 214,099.
Simpkins, Terry J., to Studebaker Corp. Tire changer. 213,914, 4–22–69, Cl. D54—13.
Simpkins, Terry J., to Slickcraft Boat Co. Boat. 214,101, 5–6–69, Cl. D71—1.
Simpkins, Terry J., to Industrial Equipment Co. Base support for a medical examination table. 214,770, 7–22–69, Cl. D83—1.
Simpkinson, William V., and J. L. Kurz. Exhaust gas temperature indicator. 216,278, 12–9–69, Cl. D52—6.
Simple Simon Interstate, Inc.: *See*—
Wells, Donald W. 214,556.
Simplex Time Recorder Co.: *See*—
Slany, Erich. 215,954.
Simpson, Lewis E.: *See*—
Karow, William E., and Simpson. 213,851.
Sinclair, Malcolm D., A. S. Fraser, and A. J. Stahel; said Stahel assor. to said Sinclair and said Fraser. Safety helmet. 215,400, 9–30–69, Cl. D2—231.
Singer-Cobble Ltd.: *See*—
Hasler, William S. 216,069.
Singer Co., The: *See*—
Dreyfuss, Henry. 213,922.
Dreyfuss, Henry. 215,517.
Fegan, Richard M. 213,639.
Fegan, Richard M. 213,642.
Fritts, Russell A. 215,350.
Milan, Henry J., and Hauser. 213,924.
Rosenfeld, George. 214,858.
Rosenfeld, George. 216,054.
Willenbacher, Erich M. 214,596.
Zilg, George L., and Kirman. 215,046.
Singer, Hans S., to HSS Corp. Combined cooking and serving unit. 215,870, 11–4–69, Cl. D44—15.
Singer, Leonard D.: *See*—
Schier, Robert W., and Singer. 214,622.
Schier, Robert W., and Singer. 214,922.
Sizer, Stuart W., and R. L. Deschamps, to Heath Co. Cabinet for housing electrical apparatus. 216,393, 12–30–69, Cl. D26—5.
Sizer, William C. Bottle. 213,422, 3–4–69, Cl. D9—118.
Sizer, William C. Soap bar. 214,599, 7–1–69, Cl. D73—1.

Skibowski, Robert. Fence top bracket. 215,726, 10–28–69, Cl. D28—1.
Skocic, Jovan. Multistory building. 214,781, 7–29–69, Cl. D13—1.
Skowronski, George V., to American Can Co. Package of paper towels and holder therefor. 216,296, 12–16–69, Cl. D9—193.
Skyer, Robert A.: *See*—
Koeber, Theodore H., and Skyer. 213,124.
Slagell, Lloyd D., to Creve Coeur Mfg. Co. Bin extension. 214,490, 6–24–69, Cl. D14—3.
Slany, Erich, to Simplex Time Recorder Co. Watchman's clock. 215,954, 11–11–69, Cl. D42—7.
Slavsky, Robert J., to Shaw & Slavsky, Inc. Price indicator sign. 213,755, 4–1–69. Cl. D96—12.
Slee, Maxie E., A. B. Johnson, G. W. Lee, and M. A. Cammack, to Aqua Tec Corp. Nozzle handle assembly for medical irrigator. 216,235, 12–2–69, Cl. D83—12.
Slickcraft Boat Co.: *See*—
Simpkins, Terry J. 214,101.
Sloan, George C. Hinge. 214,779, 7–29–69, Cl. D8—189.
Slonneger, Stephen M.: *See*—
Phillips, George W., Hitt, and Slonneger. 214,197.
Small, Randall C. Housing for an auto stereo unit. 213,447, 3–4–69, Cl. D26—14.
Smeco Industries, Inc.: *See*—
Dennison, George F. 216,008.
Smith, Alfred A. Invalid walker. 213,815, 4–8–69, Cl. D88—5.
Smith, Alfred A. Invalid walker. 213,816, 4–8–69, Cl. D88—5.
Smith, Carroll G., and G. Z. Brammer. Mounted oil dip stick wiper or similar article. 216,276, 12–9–69, Cl. D49—23.
Smith, Cecil R. Horseshoe game goal. 215,609, 10–14–69. Cl. D34—5.
Smith, Charles E. Dental mirror. 216,313, 12–16–69, Cl. D24—1.
Smith, Earl D., and D. R. Oldham. Vehicle cleaning apparatus. 214,286, 5–27–69, Cl. D49—12.
Smith, George H.: *See*—
Swartz, William E., and Smith. 214,255.
Smith, Gordon, and G. H. Kress, to Business Supplies Corp. of America. Mobile storage unit. 214,163, 5–20–69, Cl. D14—3.
Smith, Harold E., ¼ to T. J. Earl and ½ to R-N Acceptance Ltd. Refuse vehicle. 216,188, 12–2–69, Cl. D14—3.
Smith, Homer A., and W. D. Robinson. Computer output microfilmer. 214,319, 6–3–69. Cl. D26—5.
Smith, J. Perry, and U. R. Helgesson, to TRW Inc. Laser. 214,793, 7–29–69, Cl. D26—14.
Smith, James D., to Aluminum Co. of America. Portion container for food or beverage. 216,003, 11–18–69, Cl. D9—220.
Smith, James D., to Aluminum Co. of America. Portion container for food or beverage. 216,004, 11–18–69, Cl. D9—220.
Smith, James D., to Aluminum Co. of America. Portion container for food or beverage. 216,005, 11–18–69, Cl. D9—220.
Smith, James M., to The Great Western Sugar Co. Mobile weighing unit for bulk materials. 215,541, 10–7–69, Cl. D14—3.
Smith, John: *See*—
Magi, Hugo, and Smith. 216,222.
Smith, John D., to Fisher-Price Toys, Inc. Action pull toy. 216,320, 12–16–69, Cl. D34—15.
Smith, Leslie C., to Lesney Products & Co., Ltd. Display stand. 215,901, 11–4–69, Cl. D80—9.
Smith, Rawlen T. Post hole digger boom. 213,792, 4–8–69, Cl. D39—1.
Smith, Sidney Z.: *See*—
Swett, James B., and Smith. 215,331.
Smith, Wilburn Q., to Phillips Petroleum Co. Bottle. 213,304, 2–18–69, Cl. D9—45.
Smith, Wilburn Q., to Phillips Petroleum Co. Bottle or similar article. 213,671, 4–1–69, Cl. D9—90.
Smith, William R., and W. A. Hanson, Jr., to McDonough Power Equipment, Inc. Lawn mower chute. 213,125, 1–7–69, Cl. D40—1.
Smith, William R., and W. A. Hanson, Jr., to McDonough Power Equipment, Inc. Lawn mower chute. 213,328, 2–18–69, Cl. D40—1.
Snak-Bar, Inc.: *See*—
Baldwin, Gary L. 215,707.
Snyder, Clair W., Jr., to AMP Inc. Electrical connector housing or similar article. 213,561, 3–18–69. Cl. D26—1.
Snyder, Leonard M. Vehicle accelerometer. 215,070, 8–26–69, Cl. D52—6.
Snyder, William. Projection viewer. 216,338, 12–16–69, Cl. D61—1.
Sobel, Theodore: *See*—
Goldstein, Arthur, and Sobel. 214,217.
Goldstein, Arthur, and Sobel. 214,474.
Societe Anonyme Perma: *See*—
Leclabart, Jean. 214,903.
Societe Intercontinentale des Containers S.I.C.: *See*—
Detanger, Pierre. 213,156.
Soderberg, Eric W., to Newburgh Molded Products, Inc. Hanger. 215,899, 11–4–69, Cl. D80—8.
Solheim, Karsten. Golf putter. 213,509, 3–11–69, Cl. D34—5.
Solie, Orville B., to Kroehler Mfg. Co. Drawer pull. 214,778, 7–29–69, Cl. D8—158.
Solie, Orville B., to Kroehler Mfg. Co. Chest of drawers. 215,731, 10–28–69, Cl. D33—6.
Solie, Orville B., to Kroehler Mfg. Co. Furniture base. 216,180, 11–25–69, Cl. D33—1.
Sollie, Bjarne, to Wideroe Industri A/S. Folding camper. 215,151, 9–9–69, Cl. D14—3.
Solo, Alan J., to Creative Environments Inc. Collapsible work bench. 214,061, 5–6–69, Cl. D33—14.
Solomon, Jack, to Lincoln Metal Products Corp. Combined canister set, base and cover therefor. 213,716, 4–1–69, Cl. D44—6.
Solomon, Jack, to Pantry Queen Products Inc. Canister set. 215,228, 9–16–69, Cl. D44—6.
Solomon, Louis P. Ring. 215,333, 9–23–69, Cl. D45—10.
Solomon, Nathan L. Housing for a heater for hair rollers. 214,500, 6–24–69, Cl. D23—77.
Solomon, Nathan L. Combined brush, comb and container for hair pins. 214,544, 6–24–69, Cl. D86—8.
Somerville Industries Ltd.: *See*—
Bothwell, Richard R. 213,756.
Bothwell, Richard R. 213,757.
Sommer, David: *See*—
Cacciacarne, Ernest D., and Sommer. 216,379.
Songer, Jimmie D., to Video West, Inc. Portable viewfinder for cinematography or the like. 214,594, 7–1–69, Cl. D61—1.
Songrand Corp., The: *See*—
Talge, Henry J., and Briar. 214,976.
Talge, Henry J. 215,129.
Sonneman, Robert. Lamp. 214,253, 5–20–69, Cl. D48—20.
Sonnenblick, Arnold G. Shadow box picture frame trim. 213,882, 4–22–69, Cl. D29—20.
Sonnenleiter, George R., to Keystone Consolidated Industries, Inc. Ball pull or the like. 213,864, 4–22–69, Cl. D10—8.
Sonnenleiter, George R., to Keystone Consolidated Industries, Inc. Knob or the like. 213,865, 4–22–69, Cl. D10—8.
Sonoco Products Co.: *See*—
Markert, Herman R. 215,087.
Markert, Herman R. 215,144.
Sonyo Electric Co., Ltd.: *See*—
Tominaga, Naoki. 215,620.
Soo Valley Co., Inc.: *See*—
McLain, Philippe H. 215,913.
Sorenson, Bill W. Bleacher. 213,871, 4–22–69, Cl. D15—8.
Soriano, Rene: *See*—
Goldfarb, Adolph E., and Soriano. 215,223.
Soroos, James P., to Midland-Ross Corp. Air-cooled condensing unit. 213,695, 4–1–69, Cl. D23—139.
Soubitez, Pierre, to Etablissements J & P Soubitez Societe a Responsabilite Limitee. Combined headlamp and odometer. 213,252, 1–21–69, Cl. D48—24.
Southern Mechanical Products Co.: *See*—
Gibbs, Francis O. 214,198.
Southwire Co.: *See*—
Cofer, Daniel B., and Bray. 213,915.
Cofer, Daniel B., and Bray. 215,879.
Spanjer Brothers, Inc.: *See*—
Marcin, Joseph J. 213,413.
Spano, Domenico, to Domenico's Gondola, Inc. Restaurant building. 216,009, 11–18–69. Cl. D13—1.
Spargo, David J. Handle for an automobile shift lever, or similar article. 215,276, 9–23–69, Cl. D14—6.
Sparks, Walton E.: *See*—
Ryckman, Peter N., and Sparks. 213,539.
Spartan-Aqualon Corp.: *See*—
Perlman, Harold, and Poltorak. 213,867.
Spartanics, Ltd.: *See*—
Sheriff, Robert C. 213,133.
Speckhart, Bernard S.: *See*—
Weiss, Morton A., and Speckhart. 214,529.
Weiss, Morton A., and Speckhart. 215,619.
Speedring Corp.: *See*—
Schiller, James R. 215,055.
Speicher, Alan W., and R. H. Godwin, to Bliss & Laughlin Industries Inc. Adjustment control unit for a chair. 213,494, 3–11–69, Cl. D15—1.
Spence, Wayman R. Ash tray hood. 214,113, 5–6–69, Cl. D85—2.
Spence, Wayman R. Bed pan liner. 215,191, 9–9–69, Cl. D83—1.
Spencer, Herbert E. Cabinet. 213,205, 1–14–69, Cl. D33—19.
Spencer, Herbert E. Cradle. 214,357, 6–10–69, Cl. D5—5.
Spencer, Herbert E. Chair. 214,370, 6–10–69, Cl. D15—1.
Spencer, Herbert E. Clock. 214,389, 6–10–69, Cl. D42—7.
Spencer, Robert E. Snag preventive sinker for treble fish hooks. 214,046, 5–6–69, Cl. D22—30.
Sperry Rand Corp.: *See*—
Arthur, Richard J., Aberle, Carswell, and Brugger. 214,200.
Bargetzi, Fred H., Heinlein, and Loesch. 214,629.
Gianfagna, John L. 214,274.
Gianfagna, John L. 214,742.
Gianfagna, John L., and Jansons. 216,052.
Tolmie, Robert J. 213,206.
Tolmie, Robert J. 215,781.
Wolff, Martin J. 214,661.
Spilman, Raymond R.: *See*—
Hamilton, Clarence O., II, Winters, and Spilman. 213,870.
Moore, Donald L., Fricke, and Spilman. 214,267.
Moore, Donald L., Fricke, Tucker, and Spilman. 214,834.
Spinella, Salvotore C. Artificial upper cuspid tooth. 214,377, 6–10–69. D24—1.
Spisak, Steve: *See*—
Wieland, Howard N., and Spisak. 213,200.
Spranger, Paul B.: *See*—
Fields, Grover G., and Spranger. 213,647.

Square D Co.: *See*—
Moodie, Ernest W. 214,380.
Rothweiler, Richard C. 214,275.
Squires-Sanders, Inc.: *See*—
Glover, William T., and Kelly. 215,847.
Stackhouse, Morris, to Penn Fruit Co., Inc. Check-out counter. 216,232, 12–2–69, Cl. D80—2.
Stacy, William E., to The Poly-Choke Co., Inc. Phonograph tone arm. 213,566, 3–18–69, Cl. D26—14.
Stade, K. Em: *See*—
Thompson, Josephus B. 215,888.
Staff, Charles H.: *See*—
Yentis, Jonathan, and Staff. 215,194.
Stageberg, Willis A., to Plastics, Inc. Casserole. 214,185, 5–20–69, Cl. D44—15.
Stageberg, Willis A., to Plastics, Inc. Combined compartmented tray and food serving inserts thereof. 214,459, 6–17–69, Cl. D44—10.
Stageberg, Willis A., to Plastics, Inc. Covered casserole. 214,460, 6–17–69, Cl. D44—15.
Stahel, Alvin J., to Honeywell Inc. Space condition responsive instrument. 214,202, 5–20–69, Cl. D52—7.
Stahel, Alwin J.: *See*—
Sinclair, Malcolm D., and Stahel. 215,400.
Stahel, Alwin J., to Honeywell Inc. Camera flash attachment. 214,764, 7–22–69, Cl. D61—1.
Stahl, John F., to R. E. Dietz Co. Vehicle marker light. 215,117, 9–2–69, Cl. D48—32.
Stahlgruber Otto Gruber & Co.: *See*—
Felden, Alois P. 215,783.
Stahlwood Toy Mfg. Co., Inc.: *See*—
Tally, Jerome S. 216,369.
Stallebrass, John. Combined signal and control module. 214,320, 6–3–69, Cl. D26—13.
Stallebrass, John. Dummy module used to fill unused space in bank of signal and control modules. 215,848, 11–4–69, Cl. D26—13.
Stancil, Linwood W., Jr.: *See*—
Adams, Charles R., Burbage, and Stancil. 214,110.
Standard Mfg. Co.: *See*—
Voorhees, Robert W. 215,559.
Standard Oil Co.: *See*—
Birger, Jordan and M., and Di Pierro. 213,264.
Laughlin, Clayton A. 214,511.
Standard Precision Electronics, Inc.: *See*—
Hunter, Hal C., King, and Moffitt. 216,201.
Stanley, Mary E. Edible food product. 213,166, 1–14–69, Cl. D1—4.
Stanley, Wallace A.: *See*—
Hedgewick, Peter, and Stanley. 214,295.
Stanley Works, The: *See*—
Gutowski, Wojciech S., Kuchta, and West. 213,643.
Star Dental Mfg. Co., Inc.: *See*—
Brooks, Gregory W. 215,720.
Starkman, Sanford J., to Rosanna Knitted Sportswear, Inc. Knitted fabric. 215,473, 9–30–69, Cl. D47—2.
Starr, Michael M., to Starrco Co., Inc. Wall panel. 214,033. 5–6–69, Cl. D13—1.
Starrco Co., Inc.: *See*—
Starr, Michael M. 214,033.
Stationers Loose Leaf Co.: *See*—
Orth, Henry W., and Byrne. 214,236.
Stauffer Chemical Co.: *See*—
Nearing, Theodore N. 213,176.
Nearing, Theodore N. 213,177.
Nearing, Theodore N. 213,178.
Steadman, Rufus P. Building. 216,107, 11–25–69, Cl. D13—1.
Stearns Mfg. Co., Inc.: *See*—
Locke, Frank K. 215,714.
Stec, Frederick J., to Continental Can Co., Inc. End closure for a container. 214,880, 8–12–69, Cl. D9—255.
Steelcase, Inc.: *See*—
Bartholomew, Robert P. 214,315.
Bartholomew, Robert P. 214,891.
Stehl, George R., to Xerox Corp. Balance scale. 216,157, 11–25–69, Cl. D52—10.
Steiblinger, Kurt: *See*—
Ettischer, Helmut, and Steiblinger. 216,053.
Steinbach, Thomas M., to GAF Corp. Slide viewer. 215,034, 8–19–69, Cl. D61—1.
Steinbach, Thomas M., to GAF Corp. Slide viewer and stand therefor. 215,035, 8–19–69, Cl. D61—1.
Steinbach, Thomas M., and R. M. Simonelli, to GAF Corp. Slide tray. 214,001, 4–29–69, Cl. D61—1.
Steinbach, Thomas M., and R. M. Simonelli, to GAF Corp. Slide projector. 214,099, 5–6–69, Cl. D61—1.
Steiner, Fred S., to Bonny Products, Inc. Combined container opener and corkscrew. 214,078, 5–6–69, Cl. D44—29.
Steiner, Fred S., to Bonny Products, Inc. Handle for kitchen utensil. 216,326, 12–16–69, Cl. D44—29.
Steiner, Paul: *See*—
Martin, Jurt, and Steiner. 213,193.
Steinkamp, Norman A., to Sunbeam Corp. Power unit for a blender or the like. 215,782, 10–28–69, Cl. D89—1.
Steinmeyer, Herbert N. Three-way insulated splice for electrical conductors. 214,906, 8–12–69, Cl. D26—1.
Stelber Cycle Corp.: *See*—
Barris, George. 213,538.
Stelux Mfg. Co., Ltd.: *See*—
Uengsakul, Ananta. 214,936.
Uengsakul, Ananta. 214,937.
Stemco Mfg. Co., Inc.: *See*—
Wilson, Elsworth W. 215,008.
Stenberg, Nyyrikki K., to Capital Controls Co., Inc. Chlorinator unit. 213,294, 2–4–69, Cl. D23—3.
Stenotype Grandjean, Societe Anonyme: *See*—
Leroy, Marcel. 215,246.
Stephanoff, Nicholas N., to Fluid Energy Processing & Equipment Co. Double fluid energy mill. 213,645, 3–25–69, Cl. D55—1.
Stephens, William I., to Art Metal Knoll Corp. Chair or similar article. 215,837, 11–4–69, Cl. D15—1.
Stephenson, Colon M. Combined pitcher and cover therefor. 215,169, 9–9–69, Cl. D44—21.
Stephenson, Roger D. Torque vector analyzer. 214,950, 8–12–69, Cl. D52—6.
Stepwith, Thomas J. Cabinet or similar article. 216,401, 12–30–69, Cl. D33—19.
Sterling Glass Laboratories, Inc.: *See*—
Koch, Edward W., and Dorsi. 215,554.
Sterling Plastics Co.: *See*—
Fleming, Jack F. 213,283.
Fleming, Jack F. 214,358.
Stern, Walter, to Thierry Suzanne Parfums, Inc. Compact. 213,653, 3–25–69, Cl. D86—10.
Sternco Industries, Inc.: *See*—
Connolly, Robert E. 216,258.
Lovitz, David D. 214,630.
Lovitz, David D. 214,916.
Lovitz, David D. 214,917.
Sesholtz, Walter. 214,165.
Sesholtz, Walter. 215,283.
Sesholtz, Walter. 216,259.
Stessel, Martin C., W. F. Dalton, T. G. Dulin, B. L. Jones, and L. Schachner, to Xerox Corp. Document reproducing machine. 214,699, 7–15–69, Cl. D61—1.
Stevens, Benjamin A., to Grove Mfg. Co. Mobile crane. 214,889, 8–12–69, Cl. D14—3.
Stevens, Frank W.: *See*—
Josephsen, Roy C., Wellmann and Stevens. 214,429.
Stevens, Jack R., and J. V. Hays. Three-dimensional game board. 215,103, 9–2–69, Cl. D34—5.
Stevens, James P.: *See*—
Chuboff, David P., and Stevens. 216,381.
Stevens, Mack E. Boat. 214,294, 5–27–69, Cl. D71—1.
Stevens, Walter A., and R. E. Carlson, to Carlson Industries. Combined inlet and exhaust vent. 215,003, 8–19–69, Cl. D23—151.
Stewart, Earl K., to General Electric Co. Cabinet for an input-output device. 216,263, 12–9–69, Cl. D26—5.
Stewart, George D., to Automatic Electric Laboratories, Inc. Telephone booth. 214,888, 8–12–69, Cl. D13—1.
Stewart, Michael M.: *See*—
Muller, Keith N., and Stewart. 215,596.
Stiltner, James R. Straight razor handle. 216,181, 11–25–69, Cl. D95—3.
Stimulant Products, Inc.: *See*—
Schwab, Bernard J. 215,245.
Stineback, Earl E.: *See*—
Henebry, John P., and Stineback. 214,042.
Henebry, John P., and Stineback. 214,440.
Stith, Herbert O., Jr. Canopy top for bicycle. 215,393, 9–23–69, Cl. D90—1.
Stoddard, Meryl L. Skirt. 215,262, 9–23–69, Cl. D2—223.
Stokes, Konrad H.: *See*—
Broadus, Jerry N., Faerber, Noel, Stokes, and Union. 215,659.
Stokes, Rembert R.: *See*—
Dreyfuss, Henry, and Stokes. 213,108.
Dreyfuss, Henry, and Stokes. 215,159.
Stolarz, Edward M.: *See*—
D'Elia, Anthony N., and Stolarz. 213,155.
D'Elia, Anthony N., and Stolarz. 213,242.
D'Elia, Anthony N., and Stolarz. 213,744.
D'Elia, Anthony N., and Stolarz. 213,745.
D'Elia, Anthony N., and Stolarz. 213,746.
D'Elia, Anthony N., and Stolarz. 214,299.
D'Elia, Anthony N., and Stolarz. 214,545.
D'Elia, Anthony N., and Stolarz. 214,858.
D'Elia, Anthony N., and Stolarz. 215,199.
D'Elia, Anthony N., and Stolarz. 216,075.
Poppe, Martin C., Miller, D'Elia, and Stolarz. 214,390.
Stolper Industries, Inc.: *See*—
Harbeck Charles L., and Sellon. 214,040.
Stone, Alan J., to Murray Co. of Texas, Inc. Roll end bearing. 214,338, 6–3–69, Cl. D46—1.
Stone, Frank G., ½ to P. Mead. Motorcycle handlebar. 213,163, 1–7–69, Cl. D90—11.
Stone, Frank G., ½ to P. Mead. Motorcycle windshield and handlebar unit. 214,610, 7–1–69. Cl. D90—1.
Stone, Frank G., ½ to P. Mead. Motorcycle handlebar demonstration unit. 214,611, 7–1–69. Cl. D90—11.
Stone, Leland G., to Amerock Corp. Knob. 213,431, 3–4–69, Cl. D10—8.
Stone, Orison W., to R. A. Jones & Co., Inc. Packaging container for a bottle or the like. 216,002, 11–18–69, Cl. D9—193.
Stone, Roy A., to Keystone Consolidated Industries, Inc. Pull or the like. 215,404, 9–30–69, Cl. D8—159.
Stone, Stanford C., to Plastics Inc. Combined compartmented food serving tray and insert therefor. 214,523, 6–24–69, Cl. D44—10.
Stop-Fire, Inc.: *See*—
Nurkiewicz, Ignatius. 216,363.
Stopyra, Joseph. Support stand for a toaster and a canister set. 213,503, 3–11–69, Cl. D33—3.

Storch, Leonard S. Cabinet for control apparatus for type setting equipment. 216,198, 12–2–69, Cl. D26—13.
Storm Products Co.: *See*—
Swaisgood, Ralph H. 216,043.
Stottrup, Helge M. Cruciform ornament. 214,670, 7–15–69, Cl. D29—23.
Stowell, William C., Jr. Foot sock. 213,168, 1–14–69, Cl. D2—330.
Strassle, Alex. Chair. 213,826, 4–15–69, Cl. D15—1.
Strassle, Alex. Chair. 213,827, 4–15–69, Cl. D15—1.
Strassle, Alex. Chair. 215,427, 9–30–69, Cl. D15—1.
Strater, Fritz, to W. Muller and U. Strater, t/a Busch und Muller, Metallwarenfabrik. Rear view mirror. 213,183, 1–14–69, Cl. D14—6.
Strehl, Henry O. Lamp base. 214,131, 5–13–69, Cl. D48—20.
Strelow, Edgar. Flint dispensing cap. 213,950, 4–29–69, Cl. D9—275.
Strenfel, Leo M.: *See*—
Oxford, Jerry J., Kaffer, and Strenfel. 214,353.
Stringer, Jack W.: *See*—
Jones, William O., Stringer, and Switser. 214,761.
Stroh, George W. Ice cracker. 214,859, 8–5–69, Cl. D89—1.
Strom, Carl U., to Masonite Corp. Font of type. 215,502, 9–30–69, Cl. D64—12.
Strom, Dee L.: *See*—
Zimmon, Harold, and Strom. 214,482.
Stubbman, Albert: *See*—
Kohner, Frank, and Stubbman. 215,316.
Studebaker Corp.: *See*—
Simpkins, Terry J. 213,914.
Studinger, John H., to Aqua Engineering Corp. Pressurized liquid spray gun. 214,562, 7–1–69, Cl. D23—17.
Studio T Ltd.: *See*—
Chang, Humphrey. 215,757.
Stuker, Arthur E. Mail-box. 214,602, 7–1–69, Cl. D74—9.
Stulman, Ivan R., to Electronic Merchandise Corp. of California. Display stand for stereo tape cartridges. 213,343, 2–18–69, Cl. D80—9.
Stump, Harry B.: *See*—
Portz, William E., and Stump. 214,662.
Sugardale Foods, Inc.: *See*—
Lavin, Benjamin B., Dixson, and Hammond. 214,471.
Suggs, Robert P.: *See*—
Czapar, William A., and Suggs. 214,825.
Suggs, William T., to Dart Industries Inc. Neck unit for a collapsible tube. 216,386, 12–30–69, Cl. D9—253.
Sulecki, Richard P., to R. D. Werner Co., Inc. Ladder. 214,892, 8–12–69, Cl. D15—8.
Sullivan, Paul E., to Labconco Corp. Laboratory fume hood. 214,376, 6–10–69, Cl. D23—151.
Sulzberger, Rolf. Display cabinet for eye glass frames or the like. 214,108, 5–6–69, Cl. D80—11.
Summers, Marion K. Clock face. 213,843, 4–15–69, Cl. D42—7.
Summers, Marion K., and R. L. Baker. Clock face. 213,714, 4–1–69, Cl. D42—7.
Sun Chemical Corp.: *See*—
Gorman, Myer. 214,362.
Sun Control Industries, Inc.: *See*—
Economou, Hercules. 213,293.
Sun, George C. Exercise device. 215,057, 8–26–69, Cl. D34—5.
Sunbeam Corp.: *See*—
De Varco, Donald A. 216,292.
Ernest, Robert O., and Mills. 214,180.
Ernest, Robert O., and Guth. 214,822.
Harris, Shurley H. 214,181.
Haynes, Julian R. 214,221.
Haynes, Julian R. 214,222.
Herbst, Walter B., and La Zar. 213,896.
Laylon, Harry L. 214,182.
Lorenzana, Moises B. 213,905.
Nagel, Dietmar. 214,167.
Reed, John E. 214,166.
Rogers, Meyric K. 215,687.
Romin, Alvin, Jr. 213,512.
Seymour, Ronald L., and Guth. 214,823.
Steinkamp, Norman A. 215,782.
Wilson, John R. 213,499.
Sundberg, Carl W.: *See*—
Rodriguez, Raoul E., and Sundberg. 214,096.
Sundberg, Carl W., to The Seeburg Corp. Phonograph cabinet. 214,649. 7–8–69, Cl. D56—4.
Superior Electric Co., The: *See*—
Gamble, William L., Russell, and Tarozzi. 214,836.
Superior Funeral Supply Corp.: *See*—
Ellsworth, Ralph H. 215,435.
Ellsworth, Ralph H. 215,476.
Ellsworth, Ralph H. 215,477.
Lange, Morris. 214,668.
Lange, Morris. 215,235.
Lange, Morris. 215,838.
Suzuki, Sohei. Bench. 215,430, 9–30–69, Cl. D15—11.
Suzuki, Sohei. Bench. 216,115, 11–25–69, Cl. D15—11.
Suzuki, Taiichi, to Swift Instruments, Inc. Microscope. 215,889, 11–4–69, Cl. D57—1.
Svabek, John E., Jr., and N. P. Arvan, to Crane Co. Cabinet for a bath spray or similar article. 215,099, 9–2–69, Cl. D33—21.
Svenningson, Karl S. I.: *See*—
Holm, Bernt F. V. 215,013.
Svenson, Ernest J. Solenoid valve unit. 215,843, 11–4–69, Cl. D23—19.
Svenson, Ernest J. Hydraulic power unit. 215,881, 11–4–69, Cl. D55—1.
Svenson, Ernest J. Hydraulic power unit. 215,882, 11–4–69, Cl. D55—1.
Svenson, Ernest J. Hydraulic power unit. 215,883, 11–4–69, Cl. D55—1.
Svenson, Ernest J. Hydraulic power unit. 215,884, 11–4–69, Cl. D55—1.
Svenson, Ernest J. Hydraulic power unit. 215,885, 11–4–69, Cl. D55—1.
Svenson, Ernest J. Hydraulic power unit. 215,886, 11–4–69, Cl. D55—1.
Swaisgood, Ralph H., to Storm Products Co. Marking head for a wire marking machine. 216,043, 11–18–69, Cl. D55—1.
Swanson, Harold V.: *See*—
Shulick, Robert J., and Swanson. 214,481.
Swartz, Robert L., to Oscar Mayer & Co., Inc. Display shelf. 214,219, 5–20–69, Cl. D80—10.
Swartz, William E., and G. H. Smith, to Calgon Corp. Sausage. 214,255, 5–27–69, Cl. D1—26.
Swartz, William J., to The Maytag Co. Dishwasher control panel. 214,193, 5–20–69, Cl. D49—1.
Sweet, Clarence J. and E. W. Gun case. 214,711, 7–15–69, Cl. D87—1.
Sweet, Everett W.: *See*—
Sweet, Clarence J. and E. W. 214, 711.
Sweetheart Plastics, Inc.: *See*—
Davis, Paul. 213,897.
Nardone, William. 214,150.
Swenson Corp.: *See*—
Swenson, Richard F. 216,192.
Swenson, Richard F., to Swenson Corp. Auxiliary support for a seat cushion. 216,192, 12–2–69, Cl. D15—1.
Swensson, Earl S., to Minnie Pearl's Chicken System, Inc. Self-service restaurant building. 215,050, 8–26–69, Cl. D13—1.
Swertz, Edward P. Combined telephone message holder and advertising display card or similar article. 215,054, 8–26–69, Cl. D26—14.
Swett, James B.: *See*—
Bateman, Robert F., and Swett. 214,931.
Bateman, Robert F., and Swett. 216,146.
Swett, James B., to Dart Industries, Inc. Divider panel for a lunch box or the like. 214,332, 6–3–69, Cl. D44—1.
Swett, James B., to Dart Industries, Inc. Tray for condiment dispensers or the like. 214,333. 6–3–69, Cl. D44—7.
Swett, James B., and H. P. Ashton, to Dart Industries, Inc. Component of a multi-pieced toy or the like. 214,928, 8–12–69, Cl. D34—5.
Swett, James B., and T. E. Brown, to Dart Industries, Inc. Dessert dish or the like. 214,933, 8–12–69, Cl. D44—9.
Swett, James B., and S. Z. Smith, to Rexall Drug and Chemical Co. Measuring cup. 215,331, 9–23–69, Cl. D44—29.
Swett, James B., and H. P. Ashton, to Dart Industries Inc. Caster or the like. 216,145, 11–25–69, Cl. D44—7.
Swett, James B., and T. E. Brown, to Dart Industries Inc. Dessert dish or the like. 216,215, 12–2–69, Cl. D44—10.
Swett, James B., and R. F. Bateman, to Dart Industries Inc. Container for pastries or the like. 216,271, 12–9–69, Cl. D44—19.
Swift Instruments, Inc.: *See*—
Suzuki, Taiichi. 215,889.
Swingline, Inc.: *See*—
Garfinkel, Jack. 214,866.
Power, John J. 213,147.
Power, John J., and Olney. 214,347.
Swinney, Elaine P. Animal carrier unit. 214,566, 7–1–69, Cl. D30—1.
Switches, Inc.: *See*—
Wolf, Walter A. 215,602.
Switser, Gary L.: *See*—
Jones, William O., Stringer, and Switser. 214,761.
Sybron Corp.: *See*—
Lauterbach, Norman E. 214,188.
Valeska, John J. 216,286.
Sylte, Dwayne E.: *See*—
Kneale, Collan B., Sylte, Wheeler, and Wilkey. 214,626.
Sylvania Electric Products Inc.: *See*—
Asaki, James T. 213,728.
Blaisdell, Ronald G., and de Vos. 213,994.
Burridge, Michael D. 215,493.
Cox, Richard S. 213,373.
Cox, Richard S. 213,374.
Morgan, Robert G. 214,911.
Systron-Donner Corp.: *See*—
Dunlop, Richard C., and Albrecht. 213,781.
Syverson, Martelle J., to Fountain Industries, Inc. Beverage dispenser. 215,259, 9–16–69, Cl. D94—3.
Szalek, Roman J., to General Time Corp. Medication reminder clock casing. 213,455, 3–4–69, Cl. D42—7.
Heininger, Oskar. 215,851.
Heininger, Oskar. 215,852.
Szirmay, Thomas, to Tabago Meubles Ltd. Chest of drawers. 216,202, 12–2–69, Cl. D33—6.
Szombathy, Endre. Cap. 214,660, 7–15–69, Cl. D2—248.
Szymber, Oleg, to GAF Corp. Combined slide viewer and projector. 214,700, 7–15–69, Cl. D61—1.
T.F.H. Publications, Inc.: *See*—
Axelrod, Herbert R. 214,317.
TRW Inc.: *See*—
Smith J. Perry, and Helgesson. 214,793.

Tabago Meubles Ltd.: *See*—
Szirmay, Thomas. 216,202.
Tackaberry, Raymond V. Hexagonal building unit. 214,032, 5–6–69, Cl. D18—1.
Tacke, William H. P., to Conwed Corp. Ceiling panel or similar article. 214,559, 7–1–69, Cl. D18—2.
Taco Hut, Inc.: *See*—
Thixton, Thomas C. 216,102.
Taffet Electronics, Inc.: *See*—
Meyers, Edward E. 214,768.
Taihei Saddle Mfg. Co., Ltd.: *See*—
Kitaguchi, Katsuhiko. 214,478.
Taiman, Edward C., to Cannon Mills Co. Pillowcase or similar article of bed linen. 215,636, 10–14–69, Cl. D92—26.
Taiman, Edward C., to Cannon Mills Co. Pillowcase or similar article of bed linen. 215,639, 10–14–69, Cl. D92—26.
Takeoka, Ryotaro. Plate or similar article. 214,281, 5–27–69, Cl. D44—15.
Takeoka, Ryotaro. Plate or similar article. 214,283, 5–27–69, Cl. D44—15.
Takeoka, Ryotaro. Plate or similar article. 214,284, 5–27–69, Cl. D44—15.
Takeoka, Ryotaro. Plate or similar article. 214,285, 5–27–69, Cl. D44—15.
Takeoka, Ryotaro. Plate or similar article. 214,985, 8–12–69, Cl. D44—15.
Takeoka, Ryotaro. Plate or similar article. 215,015, 8–19–69, Cl. D44—15.
Talerico, Joseph F.: *See*—
Jones, Robert V., and Talerico. 213,964.
Talge, Henry J., to The Songrand Corp. Hair curler. 215,129. 9–2–69, Cl. D86—10.
Talge, Henry J., and J. E. Briar, to The Songrand Corp. Handle for a heating appliance for use in hair treatment. 214,976, 8–12–69, Cl. D86—10.
Tally, Jerome S., to Stahlwood Toy Mfg. Co., Inc. Toy figure. 216,869, 12–23–69, Cl. D34—4.
Tamar Electronics Industries, Inc.: *See*—
Albrecht, Leonard N. 215,508.
Tampa, Michael: *See*—
Wolpert, Lionel, and Tampa. 215,711.
Tanaka, Harumi: *See*—
Ikegami, Kichizo, Tanaka, and Fukuda. 213,806.
Tapert, John W., to Design Workshop, Inc. Stool. 215,428. 9–30–69, Cl. D15—8.
Tarnreed Ltd.: *See*—
Lennon, Carole A. 215,906.
Tarozzi, Richard A.: *See*—
Gamble, William L., Russell, and Tarozzi. 214,836.
Tarrson, Sidney A. Sling-seated float. 214,854, 8–5–69, Cl. D71—1.
Tartack, Louis, and R. Jannetti. Game board. 213,980, 4–29–69. Cl. D34—5.
Tavela, Heikki. Savings-box. 216,189, 11–25–69, Cl. D34—11.
Taylor, Beverly W. Counting device. 215,755, 10–28–69, Cl. D52—1.
Taylor Chair Co.: *See*—
Dean, Ruth A. 214,741.
Taylor, Edward G.: *See*—
Jarl, Lars E., and Taylor. 215,713.
Jarl, Lars E., and Taylor. 215,982.
Taylor, Lawrence D. Vehicle bumper attachment. 215,208, 9–16–69, Cl. D14—6.
Taylor, William D., to Rubbermaid Inc. Tiered parts bin. 213,602, 3–18–69, Cl. D87—1.
Taylor, William D., to Rubbermaid Inc. Dish drainer. 214,524, 6–24–69, Cl. D44—29.
Tazaki, Kazuo. Combined figure and vehicle toy. 214,176, 5–20–69, Cl. D34—15.
Teacher, Wm., & Sons Ltd.: *See*—
Dunlop, Robert J. 213,262.
Technological Products, Inc.: *See*—
Jaffe, Daniel L. 213,111.
Tee-Pak, Inc.: *See*—
Cline, Jack V. 214,486.
Cline, Jack V. 214,996.
Cline, Jack V. 215,825.
Teichert, A., & Son, Inc.: *See*—
Davis, Herman W. 214,985.
Nelson, Edgar L., and Davis. 215,357.
Teikoku Dempa Co., Ltd.: *See*—
Kawakami, Kazuo. 216,125.
Teledyne, Inc.: *See*—
Baker, Berkley J., and La Haye. 215,606.
Teletype Corp.: *See*—
Genaro, Donald M. 215,546.
Genaro, Donald M. 215,547.
Tenex Corp.: *See*—
Mox, Dana W. 214,283.
Tenna Corp.: *See*—
Tolar, James H. 216,396.
Tolar, James H. 216,397.
Tolar, James H. 216,398.
Tolar, James H. 216,399.
Terre, Victor J. Sectional container for toiletries or the like. 214,719, 7–22–69, Cl. D9—18.
Terrels, Joseph L., and R. Meneses. Container for a paint sprayer or the like. 215,655, 10–21–69, Cl. D23—2.
Terry, Raymond, to Playrite Sportsgear Ltd. Golf practice device. 216,403, 12–30–69, Cl. D34—5.
Texas Instruments Inc.: *See*—
Bradley, Leonard R. 215,758.
Clarke, David E., and Peterson. 214,450.
Texize Chemicals, Inc.: *See*—
Rosfeld, Jack H. 214,875.
Textron Inc.: *See*—
Cowan, Murray L., and Grear. 213,541.
Flachbarth, Charles T., and Ostrye. 215,963.
George, Peter D. 216,384.
Price, James R. 215,239.
Schlein, Seymour N. 214,965.
Thaler, Arnold, to American Home Products Corp. Spoon or similar article. 214,204, 5–20–69, Cl. D54—12.
Thaler, Arnold, to American Home Products Corp. Spoon or similar article. 214,205, 5–20–69, Cl. D54—12.
Thaler, Arnold, to American Home Products Corp. Spoon or similar article. 214,206, 5–20–69, Cl. D54—12.
Thaler, Arnold, to American Home Products Corp. Spoon or similar article. 215,181, 9–9–69, Cl. D54—12.
Thebiay, Bernard T. Adjustable shower unit. 215,288, 9–23–69, Cl. D23—55.
Theobald, Elwin: *See*—
Coon, James A., and Theobald. 214,178.
Coon, James A., and Theobald. 216,210.
Thermal Engineering & Design Co.: *See*—
Baron, William J. 213,694.
Thermo Electric Co., Inc.: *See*—
Plumb, William L., and Drozdowski. 213,221.
Thermolyne Corp.: *See*—
Betzer, Cloyd L. 215,514.
Thierry Suzanne Parfums, Inc.: *See*—
Stern, Walter. 213,653.
Thixton, Thomas C., to Taco Hut, Inc. Building. 216,102, 11–25–69, Cl. D18—1.
Thom, Wenzel W., ½ to F. M. Jones. Handrailing. 213,868, 4–22–69, Cl. D18—7.
Thom, Wenzel W., ½ to F. M. Jones. Handrailing. 214,312, 6–3–69, Cl. D18—7.
Thom, Wenzel W. Handrailing. 214,368, 6–10—69, Cl. D13—7.
Thom, Wenzel W., to F. M. Jones. Handrailing. 214,726, 7–22–69, Cl. D18—7.
Thom, Wensel W., ½ to F. M. Jones. Handrailing. 214,782, 7–29–69, Cl. D18—7.
Thomas, Donald J., to Burger Chef Systems, Inc. Tray. 213,093, 1–7–69, Cl. D9—185.
Thomas, Vitas T., R. A. Lovdahl, E. J. Lazzeroni, S. F. Aiello, and B. L. Renquist, to Tomco, Inc. Industrial clamp. 213,803, 4–8–69, Cl. D54—1.
Thomas, Vitas T., and R. A. Lovdahl, to Tomco, Inc. Hydraulic work holding clamp. 213,998, 4–29–69, Cl. D55—1.
Thomas, Vitas T., and R. A. Lovdahl, to Tomco, Inc. Hydraulic work holding clamp. 214,528, 6–24–69, Cl. D55—1.
Thompson, Catherine E. Serving tray for beverages or the like. 214,074 5–6–69, Cl. D44—10.
Thompson, Howard. Nut tool rack. 215,869, 11–4–69, Cl. D44—10.
Thompson, Jack M. and M. J., to Revolt, Inc. Vehicle. 215,909, 11–4–69, Cl. D90—8.
Thompson, Josephus B., deceased, by K. E. Stade, administrator, to Columbia Broadcasting System, Inc. Drumhead tensioning lug for musical drums. 215,888, 11–4–69, Cl. D56—1.
Thompson, Marshall F. Combined escutcheon plate and hinged cover for a table top recessed switch device. 216,185, 12–2–69, Cl. D8—184.
Thompson, Michael J.: *See*—
Thompson, Jack M. and M. J. 215,909.
Thompson, Richard E., to The San Diego Hockey Club. Figurine. 214,278, 5–27–69, Cl. D29—23.
Thomson, Ernest F.: *See*—
Lomant, Max M., and Thomson. 214,831.
Thomson, Ernest F., to Lever Bros. Co. Bottle. 215,700, 10–28–69, Cl. D9—116.
Thorn, John B., and A. Bus, to The Lane Co., Inc. Drawer cocktail table or similar article. 214,671, 7–15–69, Cl. D38—14.
Thorn, John B., and A. Bus, to The Lane Co., Inc. Commode. 214,673, 7–15–69, Cl. D33—19.
Thornley, Joseph, and F. S. Allwork, to Mole-Richardson (English) Ltd. Flood lamp. 213,834, 2–18–69, Cl. D48—20.
Tierney, Bernard C., to Leisure Industries. Motorized surfboard. 215,505, 9–30–69, Cl. D71—1.
Tierney, Timothy J.: *See*—
Dienes, Robert R., Tierney, and Swadley. 215,381.
Dienes, Robert R., Tierney, and Swadley. 215,382.
Tiff, Fred H. Christmas tree stand. 214,747, 7–22–69, Cl. D35—3.
Tiger Products, Inc.: *See*—
Fisher, James E., Mitchell, and Wisdom. 215,863.
Tilley, Walter L. Support post. 215,854, 11–4–69, Cl. D28—1.
Time & Tide, Inc.: *See*—
Jones, Howland B., Jr. 215,466.
Tindall, John H.: *See*—
McCreary, Edward W., Tindall, and Hood. 215,540.
Tischuk, Walter, to H. H. Robertson Co. Building sheet. 214,665, 7–15–69, Cl. D18—1.
Tissot, Charles & Co.: *See*—
Gurtner, Lucien. 214,809.
Toerge, Fred L., and M. E. Garfinkle, to Cornell-Dubilier Electric Corp. Antenna rotator control housing. 215,492, 9–30–69, Cl. D52—6.
Toffolon, Siro R., to The International Silver Co. Fork or similar article of flatware. 213,136, 1–7–69, Cl. D54—12.
Toffolon, Siro R., to The International Silver Co. Fork or similar article of flatware. 213,137, 1–7–69, Cl. D54—12.

Toffolon, Siro R., to General Time Corp. Clock casing. 213,794, 4–8–69, Cl. D42—7.
Toffolon, Siro R. Spoon or similar article of flatware. 213,911, 4–22–69, Cl. D54—12.
Toffolon, Siro R., to General Time Corp. Clock casing. 214,520, 6–24–69, Cl. D42—7.
Toffolon, Siro R., to General Time Corp. Clock casing. 214,676, 7–15–69, Cl. D42—7.
Toffolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 214,689, 7–15–69, Cl. D54—12.
Toffolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 214,690, 7–15–69, Cl. D54—12.
Toffolon, Siro R., to World Tableware Corp. Spoon or similar article of flatware. 214,691, 7–15–69, Cl. D54—12.
Toffolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 214,692, 7–15–69, Cl. D54—12.
Toffolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 214,693, 7–15–69, Cl. D54—12.
Toffolon, Siro R., to General Time Corp. Clock casing. 214,748, 7–22–69, Cl. D42—7.
Toffolon, Siro R., to General Time Corp. Clock casing. 216,035, 11–18–69, Cl. D42—7.
Toffolon, Siro R., to World Tableware Corp. Spoon or similar article of flatware. 216,159, 11–25–69, Cl. D54—12.
Tokyo Kagaku Kabushiki Kaisha: *See*—
Mabuchi, Takaichi. 213,563.
Tolar, James H., to Tenna Corp. Cartridge-type tape player. 216,396, 12–30–69, Cl. D26—14.
Tolar, James H., to Tenna Corp. Cartridge type tape player. 216,397, 12–30–69, Cl. D26—14.
Tolar, James H., to Tenna Corp. Cartridge type tape player. 216,398, 12–30–69, Cl. D26—14.
Tolar, James H., to Tenna Corp. Cartridge type tape player. 216,399. 12–30–69. Cl. D26—14.
Tolmie, Robert J., to Sperry Rand Corp. Shaver holder. 213,206, 1–14–69, Cl. D33—23.
Tolmie, Robert J., to Sperry Rand Corp. Hair roller. 215,781, 10–28–69, Cl. D86—10.
Tomco, Inc.: *See*—
Thomas, Vitas T., and Lovdahl. 213,998.
Thomas, Vitas T., and Lovdahl. 214,528.
Thomas, Vitas T., Lovdahl, Lazzeroni, Aiello, and Renquist. 213,803.
Tominaga, Naoki, to Sonyo Electric Co., Ltd. Portable radio receiver. 215,620, 10–14–69, Cl. D56—4.
Tominaga, Naoki, to Sanyo Electric Co., Ltd. Radio receiver. 215,621, 10–14–69, Cl. D56—4.
Tomkinson, Stanley E., to General Electric Co. Dynamo-electric machine end frame. 213,626, 3–25–69, Cl. D26—5.
Tompkins, David D., to Bissell Inc. Bottle. 214,871, 8–12–69, Cl. D9—43.
Toohill, George G. Ceramic insulating bead. 214,565, 7–1–69, Cl. D26—10.
Topper Corp.: *See*—
Boydman, Hyman P. 216,205.
Torch Rubber Co., Inc.: *See*—
Schwartz, Sam. 215,139.
Tormey, Robert M. Vehicle lift. 213,713, 4–1–69, Cl. D41—1.
Torres, Noel M. Rear view mirror. 314,436, 6–17–69, Cl. D14—6.
Towle Mfg. Co.: *See*—
Gavette, Richard C. 215,022.
Martin, Greenleaf B. 215,024.
Richmond, Colin B., II. 215,023.
Richmond, Colin B., II. 215,025.
Richmond, Colin B., II. 215,026.
Townsend, Richard, to D. G. Griswold. Remote control valve. 213,104, 1–7–69, Cl. D23—19.
Tranter Mfg., Inc.: *See*—
McGuffey, James W. 213,105.
Traughber, John W. Ratchet wrench. 214,018, 5–6–69, Cl. D8—25.
Traum, David, Inc.: *See*—
Bozzi, Ann R. 214,688.
Travis, Charles C. Game board. 215,739, 10–28–69, Cl. D34—5.
Trendon Ltd.: *See*—
Walter, Lester. 214,745.
Trepanier, Richard A. Welding torch. 214,056, 5–6–69, Cl. D26—1.
Tresino, Louie R., and T. O. Curlee III, to Westinghouse Electric Corp. Control console for a simulator of electric systems. 214,170, 5–20–69, Cl. D26—13.
Tri-Aug Toys Ltd.: *See*—
Hood, Christopher J. 215,317.
Tri-Chem, Inc.: *See*—
Gerson, Henry. 214,365.
Triplett, James T. Convertible industrial vehicle. 215,421, 9–30–69, Cl. D14—3.
Triplett, James T. Industrial vehicle. 215,422, 9–30–69, Cl. D14—3.
Triplett, James T. Electric vehicle. 215,423, 9–30–69, Cl. D14—3.
Tripp, Walter C. and W. W. Portable drafting device. 216,207, 12–2–69, Cl. D33—14.
Tripp, Warren W.: *See*—
Tripp, Walter C. and W. W. 216,207.
Triumph Werke Nuernberg A.G.: *See*—
Dietrich, Gerhard, and Mamet. 213,231.
Troesch, Paul: *See*—
Kreis, Walter, and Troesch. 215,495.
Troutman, Lena L. Vase or similar article. 214,171, 5–20–69, Cl. D29—28.
Troutman, Lena L. Vase or similar article. 214,172, 5–20–69, Cl. D29—28.
Troxel Mfg. Co.: *See*—
Faulhaber, Roland A. 215,990.
Faulhaber, Roland A. 215,991.
Worley, George W. 214,119.
Trudeau, Aime. Combined lamp shade and mirror. 216,040, 11–18–69, Cl. D48—16.
True Temper Corp.: *See*—
Portz, William E., and Stump. 214,662.
Truelsen, Charles H. Ash tray. 214,004, 4–29–69. Cl. D85—2.
Tsoo-Hing, Leung, and L. Chai-Wan. Vacuum jug. 216,370, 12–23–69, Cl. D44—21.
Tsuji, Tom T.: *See*—
Golden, Gerald J., Tsuji, and Walker. 214,760.
Tsunoda, Fukuyki. Iron. 216,153, 11–25–69, Cl. D49—6.
Tucker, Council A.: *See*—
Perrin, Jack L., and Tucker. 214,199.
Tucker, Donald R., to RCBS, Inc. Powder measure stand. 213,465, 3–4–69, Cl. D52—2.
Tucker, Gary M., to The B. F. Goodrich Co. Tire. 213,750, 4–1–69, Cl. D90—20.
Tucker, Hartwell F. Pocketed record folder. 215,535, 9–30–69, Cl. D97—2.
Tucker, William H.: *See*—
Moore, Donald L., Fricke, Tucker, and Spilman. 214,834.
Turbeville, Clarence S., and I. J. Walker, to Bomber Bait Co. Fishing lure. 214,897, 8–12–69, Cl. D22—27.
Turbeville, Clarence S., and I. J. Walker, to Bomber Bait Co. Fishing lure. 214,898, 8–12–69, Cl. D22—27.
Tweeten Fibre Co. Inc.: *See*—
Sheffer, William H. 213,386.
Twentieth Century Products Corp.: *See*—
Hudson, Harry W. 214,050.
Tyco Laboratories, Inc.: *See*—
Brifka, Paul E., and Knepp. 213,702.
Tyrrell, Thomas L. Automobile body. 213,615, 3–25–69, Cl. D14—3.
UMC Industries, Inc.: *See*—
Moore, Walter E. 216,044.
Uber, Arthur E., Jr., R. L. Finch, and W. A. English, to Westinghouse Electric Corp. Electric iron or the like. 215,237, 9–16–69, Cl. D49—6.
Uengsakul, Ananta, to Stelux Mfg. Co., Ltd. Watch bracelet or similar article. 214,936, 8–12–69, Cl. D45—4.
Uengsakul, Ananta, to Stelux Mfg. Co., Ltd. Watch bracelet or similar article. 214,937, 8–12–69, Cl. D45—4.
Uldall, Falle, to Hutzler Mfg. Co. Fork. 213,992, 4–29–69, Cl. D44—29.
Ultradynamics Corp.: *See*—
Young, Albert. 215,000.
Underwood, Robert M. Measuring scale. 215,672, 10–21–69, Cl. D52—6.
Union Carbide Corp.: *See*—
Brindley, Robert E., Chase, and Sammons. 213,635.
Ottens, Richard A. 215,033.
Union des Cooperatives Viticoles de l'Aamagnac (U.C.V.A.): *See*—
Herlin, Andre. 213,765.
Union, Donald C.: *See*—
Broadus, Jerry N., Faerber, Noel, Stokes, and Union. 215,659.
Union Special Machine Co.: *See*—
Kaiser, Henry R. 215,623.
Union Tank Car Co.: *See*—
Wildgen, Leo F. 213,440.
Uniroyal, Inc.: *See*—
Blankenship, Arthur C. 215,134.
Blankenship, Arthur C. 215,135.
Newman, James F. 213,245.
United Lighting and Ceiling Co.: *See*—
Schwartz, Robert A. D., and Pfeiffer. 215,558.
United Metal Goods Mfg. Co., Inc.: *See*—
Edelman, Benjamin G. 213,453.
Edelman, Benjamin G. 215,864.
Edelman, Benjamin G. 215,865.
United States Borax & Chemical Corp.: *See*—
McConnell, Paul H. 214,263.
U.S. Industries, Inc.: *See*—
Aghababian, Madeleine. 215,243.
Reichenstein, Victor. 214,759.
United States Mineral Products Co.: *See*—
Adler, Marvin. 215,749.
U.S. Philips Corp.: *See*—
De Vos, Arie C. 214,277.
Julkenbeck, Hans J. H. 215,719.
Schellens, Henricus F. T. 214,789.
Vananderoye, Hugo H. M. 215,603.
Van der Poel, Rebertus. 215,724.
Yran, Knut O. 215,675.
Yran, Knut O. 216,374.
Zijlstra, Rudolph B. 214,087.
United States Steel Corp.: *See*—
Huber, Norman J. 214,360.
United Technical Corp.: *See*—
Salsgiver, John P. 216,257.
Universal Building Products Corp.: *See*—
Pickering, Loring. 213 618.
Universal Products Corp.: *See*—
Lattin, Leroy E. 213,302.
Unter, Robert K., to Keystone Consolidated Industries, Inc. Key bow. 213,587, 3–18–69, Cl. D50—4.
Unter, Robert K., to Keystone Consolidated Industries, Inc Pop-out handle and lock unit. 213,863, 4–22–69, Cl. D10—8.

Unter, Robert K., to Keystone Consolidated Industries, Inc. Coin chute or the like. 214,687, 7–15–69, Cl. D52—3.
Unter, Robert K., to Keystone Consolidated Industries, Inc. Pop-out handle and lock unit. 214,713, 7–22–69, Cl. D8—120.
Unter, Robert K., to Keystone Consolidated Industries, Inc. Coin chute or the like. 214,754, 7–22–69, Cl. D52—3.
Unter, Robert K., to Keystone Consolidated Industries, Inc. Coin chute or the like. 215,020, 8–19–69, Cl. D52—3.
Urbach, Jacques. Contact lens grinding kit. 214,847, 8–5–69 Cl. D37—1.
Urbane, Peter. Token or similar article. 215,728, 10–28–69 Cl. D29—19.
Ute Mountain Corp.: *See*—
Martin, Richard C., and Carlson. 216,352.
Utrecht, Karl A., to Kenner Products Co. Toy movie projector 215,185, 9–9–69, Cl. D61—1.
V & E Friedland Ltd.: *See*—
Doggart, John. 215,187.
Doggart, John. 215,188.
Doggart, John. 215,189.
Doggart, John. 215,374.
Doggart, John. 215,375.
VLM Corp.: *See*—
Rosta, William N. 215,971.
Vaillancourt, Vincent L., to C. R. Bard, Inc. Syringe. 216,169, 11–25–69, Cl. D83—1.
Valeska, John J., to Sybron Corp. Disposable chuck handle for electrosurgical knife or the like. 216,286, 12–9–69, Cl D83—12.
Valle, Roy and H. D. Holder for a religious candle. 215,335, 9–23–69, Cl. D48—2.
Valles, Benjamin V., to Litton Precision Products, Inc. Magnetron device. 215,298, 9–23–69, Cl. D26—8.
Vananderoye, Hugo H. M., to U.S. Philips Corp. Dictating machine. 215,603, 10–14–69, Cl. D26—14.
Vananderoye, Hugo H. M. Housing for a portable phonograph or similar article. 216,375, 12–23–69, Cl. D56—4.
Vanderhoef, John P.: *See*—
La Zar, Ralph M., and Vanderhoef. 215,853.
Vanderhyde, Harold J., to The Procter & Gamble Co. Bottle. 214,261, 5–27–69, Cl. D9—105.
Vanderhyde, Harold J., to The Procter & Gamble Co. Bottle or similar article. 214,425, 6–17–69, Cl. D9—100.
Vanderhyde, Harold J., to The Procter & Gamble Co. Bottle. 214,874, 8–12–69, Cl. D9—110.
Vanderhyde, Harold J., to National Dairy Products Corp. Packaging cup. 215,824, 11–4–69, Cl. D9—220.
Van der Meulen, Guy R., to Planned Tectronics, Inc. Communication desk. 215,097, 9–2–69, Cl. D33—7.
Van der Poel, Rebertus, to U.S. Philips Corp. Microphone. 215,724, 10–28–69, Cl. D26—14.
Van der Poel, Rebertus. Transcribing machine for pocket memo cassette. 216,366, 12–23–69, Cl. D26—14.
Vanguard Data Systems, Inc.: *See*—
Jacobs, Karel, Gugliotta, and Bradley. 216,314.
Jacobs, Karel, Gugliotta, Bradley, and Meng. 215,601.
Jacobs, Karel, Gugliotta, Bradley, Wallace, and Mallon. 215,302.
Van Koevering, Barry D., to AZA Scientific, Inc. Magnetic field sensing apparatus. 213,725, 4–1–69, Cl. D52—6.
Van Leeuwen, Hubert J. Highway sign support. 213,246, 1–14–69, Cl. D96—12.
Van Poppel, Albertus. Gas-lighter. 213,518, 3–11–69, Cl. D48—27.
Van Skyhawk, Norman: *See*—
Ruggles, Kay L., and Van Skyhawk. 215,717.
Van Voorhis, Richard A. Combined laundry bag and apparel rack. 214,586, 7–1–69. Cl. D49—81.
Varian Associates: *See*—
Vedder, Gene D. 213,409.
Vasco Metals Corp.: *See*—
Bomba, John R., and Eberly. 216,255.
Vasilatos, Anastasios J.: *See*—
Barke, Bernard A., and Vasilatos. 214,958.
Vassar, Jack K. Grille and bumper guard. 215,835, 11–4–69, Cl. D14—6.
Vaudaux, Georges. Display box. 214,025, 5–6–69, Cl. D9—230.
Veb Rhonglaswerk Dermbach: *See*—
Kull, Eberhard, Wetzke, Griebel, Breite, and Wiesmair. 216,407.
Vedder, Gene D., to Varian Associates. Linear accelerator for cancer radio-therapy or the like. 213,409, 2–25–69, Cl. D83—1.
Veech, Robert D. Miniature cabinet for electrical components. 215,295, 9–23–69, Cl. D26—5.
Velasquez, Willie L. Disposable sanitary cover for telephone handsets. 214,322, 6–3–69, Cl. D26—14.
Velely, Donald V., and D. R. Dalpiaz, to Guardian Light Co. Combined outdoor lighting fixture and support. 214,945, 8–12–69, Cl. D48—31.
Velte, Carl J., Jr., to Shakespeare Co. Push-button for a reel. 213,619, 3–25–69, Cl. D22—25.
Velte, Carl J., Jr., to Shapespeare Co. Push-button spin casting reel. 213,620, 3–25–69, Cl. D22—25.
Velte, Carl J., Jr., to Pflueger Corp. Push-button spin casting reel. 213,621, 3–25–69, Cl. D22—25.
Velte, Carl J., Jr., to Pflueger Corp. Push-button for a reel. 213,622, 3–25–69, Cl. D22—25.
Venetian International, Inc.: *See*—
Goodall, Jack A. 214,902.
Ver Halen, Richard T., to Weber-Stephen Products Co. Combination table-cart and barbecue grill. 214,220, 5–20–69, Cl. D81—10.
Vermont American Corp.: *See*—
McCord, Wilfred M. 213,893.
McCord, Wilfred M., Jr. 213,894.
McCord, Wilfred M., Jr. 213,895.
Vernco Corp.: *See*—
Mariol, James F. 213,640.
Mariol, James F. 213,641.
Vernon Co., The: *See*—
Vernon, John H. 215,509.
Woofter, Cecil B. 215,962.
Vernon, John H., to The Vernon Co. Calendar holder. 215,509, 9–30–69, Cl. D74—5.
Vesely, Donald V., and J. Kaiser, to Guardian Light Co. Combined outdoor lighting fixture and support bracket. 213,519, 3–11–69, Cl. D48—31.
Vesely, Donald V., and J. Kaiser, to Guardian Light Co. Combined outdoor lighting fixture and support. 213,520, 3–11–69, Cl. D48—31.
Vesely, Donald V., and J. Kaiser, to Guardian Light Co. Outdoor lighting fixture. 213,521, 3–11–69, Cl. D48—31.
Vesely, Donald V., and D. R. Dalpiaz, to Guardian Light Co. Combined outdoor lighting fixture and support. 214,944, 8–12–69, Cl. D48—31.
Vesely, Donald V., and D. R. Dalpiaz, to General Signal Corp. Combined outdoor lighting fixture and support. 215,669, 10–21–69, Cl. D48—31.
Vesely, Donald V., and D. R. Dalpiaz, to General Signal Corp. Combined outdoor lighting fixture and support. 216,221, 12–2–69, Cl. D48—31.
Vetere, John J., to Sylvania Electric Products Inc. Lamp. 215,939, 11–11–69, Cl. D26—8.
Vicknair, Thomas M., and R. W. Sargent, to Western Drinking Fountains Inc. Shower head. 215,092, 9–2–69, Cl. D23—35.
Victor Comptometer Corp.: *See*—
Davis, Jack E. 215,842.
Video West, Inc.: *See*—
Songer, Jimmie D. 214,594.
Vif-Vitaloni S.A.S. Di Vitaloni Mario, Giovanni & C.: *See*—
Vitaloni, Massimo. 214,619.
Vigna, Ralph M., to Eastman Kodak Co. Photographic processing apparatus. 214,762, 7–22–69, Cl. D61—1.
Vignelli, Massimo, to The Gillette Co. Bottle. 214,307, 6–3–69, Cl. D9—139.
Vignelli, Massimo, to The Gillette Co. Package of bottles. 215,647, 10–21–69, Cl. D9—12.
Vignelli, Massimo, to The Gillette Co. Package of bottles. 215,648, 10–21–69, Cl. D9—12.
Vignelli, Massimo, to The Gillette Co. Bottle. 215,701, 10–28–69, Cl. D9—169.
Viitanen, Heikki, to Farmos Oy. Soap bar. 215,248, 9–16–69, Cl. D73—1.
Villager, Inc., The: *See*—
Aigner, Etienne. 213,086.
Aigner, Etienne. 213,158.
Aigner, Etienne. 213,419.
Aigner, Etienne. 213,482.
Aigner, Etienne. 213,483.
Aigner, Etienne. 213,484.
Aigner, Etienne. 214,989.
Aigner, Etienne. 216,072.
Villager Industries, Inc.: *See*—
Aigner, Etienne. 214,155.
Aigner, Etienne. 214,156.
Vincent, Christopher N. Drawing aid device, particularly for drawing perspectives. 213,395, 2–25–69, Cl. D52—6.
Vincent, Jean-Luc. Ash tray. 216,060, 11–18–69, Cl. D85—2.
Vinco Corp.: *See*—
Heldt, Michel P. 214,095.
Vitale, Felice N. Coat or similar article. 213,351, 2–25–69, Cl. D2—183.
Vitaloni, Massimo, to Vif-Vitaloni S.A.S. Di Vitaloni Mario, Giovanni & C. External driving mirror for motor vehicles. 214,619, 7–8–69, Cl. D14—6.
Vittone, Joseph C. Vehicle body. 216,253, 12–9–69, Cl. D14—3.
Vogt, Paul, to Berby SA. Combined clock and thermometer. 216,211, 12–2–69, Cl. D42—7.
Vold, Gordon A.: *See*—
Jones, Robert A., and Vold. 214,580.
Vollmer, Edwin L.: *See*—
Gaarder, Gilbert W., and Vollmer. 216,405.
Vollrath Co., The: *See*—
Rickmeier, Carl H., Jr. 213,717.
Rickmeier, Carl H., Jr. 213,899.
Vondell, Richard M.: *See*—
Cooper, Myron G., Grandon, and Vondell. 213,941.
Cooper, Myron G., Grandon, and Vondell. 213,942.
Cooper, Myron G., Grandon, and Vondell. 213,943.
Cooper, Myron G., Grandon, and Vondell. 213,944.
Cooper, Myron G., Grandon, Vondell, and Ellis. 213,945.
Cooper, Myron G., Grandon, Vondell, and Ellis. 213,946.
Cooper, Myron G., and Vondell. 214,659.
Cooper, Myron G., and Vondell. 215,260.
Voorhees, Robert W., to Standard Mfg. Co. Waste receptacle. 215,559, 10–7–69, Cl. D49—30.
Vuillemenot, Robert P., to The Procter & Gamble Co. Container cap. 215,704, 10–28–69, Cl. D9—284.
Wada, Kiyosaku, to Oneida Ltd. Spoon or similar article. 215,878, 11–4–69, Cl. D54—12.

Waddington, Richard J., P. C. Webb, and R. N. Ashworth, to Imperial Chemical Industries, Ltd. Combined bottle and closure therefor. 213,670, 4–1–69, Cl. D9—66.
Wahl Associates, Inc.: *See*—
Garson, Arthur. 218,280.
Garson, Arthur. 214,406.
Wahlenmeier, Frederick E., R. H. Podoloff, and M. H. Bell, to The Bunker-Ramo Corp. Dual tube television receiver or similar article. 213,729, 4–1–69, Cl. D56—4.
Wahlforss, Henrik C. W., to AB Hakanssons Industries. Electrical closet. 214,318, 6–3–69, Cl. D23—48.
Waite, James E., and W. E. White. Adjustable form for blocking and pressing a skirt. 214,949, 8–12–69, Cl. D52—6.
Waltman-Warner, Malcolm D. Combined gear lever knob and coin holder. 214,618, 7–8–69, Cl. D14—6.
Wakai, Noboru, to Dai Nihon Bungu Kabushiki Kaisha (also t/a The Japan Stationery Co., Ltd.). Pen. 213,531, 3–11–69, Cl. D74—17.
Wald Mfg. Co., Inc.: *See*—
Pawsat, Carlton P., and Humlong. 214,477.
Waldeck, John. Roller massage unit. 216,168, 11–25–69, Cl. D83—1.
Waldrop, Joe R.: *See*—
Bowman, Dean C., Waldrop, and Webb. 214,169.
Waligorski, Gordon J., to The Perkin Elmer Corp. Housing for a low temperature R-F reactor unit. 215,154, 9–9–69, Cl. D18—2.
Waligorski, Gordon J., to Perkin-Elmer Corp. Data reader. 216,016, 11–18–69, Cl. D26—5.
Walker, Dennis W.: *See*—
Harrop, Clifford B., and Walker. 213,362.
Walker, Ike J.: *See*—
Turbeville, Clarence S., and Walker. 214,897.
Turbeville, Clarence S., and Walker. 214,898.
Walker, James E.: *See*—
Golden, Gerald J., Tsuji, and Walker. 214,760.
Walker, Lester, to Trendon Ltd. Toy building unit. 214,745, 7–22–69, Cl. D34—15.
Walklet, Mercer D., to Hamlin Products, Inc. Tire display disc. 216,241, 12–2–69, Cl. D96—12.
Walklet, Mercer D., to Hamlin Products, Inc. Tire display disc. 216,243, 12–2–69, Cl. D96—12.
Walklet, Mercer D., to Hamlin Products, Inc. Tire display disc. 216,244, 12–2–69, Cl. D96—12.
Walkup, Norris W.: *See*—
Lewis, Dan, Jr., Palmer, and Walkup. 214,422.
Wallace, Charles E.: *See*—
Jacobs, Karel, Gugliotta, Bradley, Wallace, and Mallon. 215,302.
Wallace, Floyd E., and P. E. Elwell, to Detroit Automotive Products Co. d.b.a. Detroit Products Co. Vehicle mirror support. 213,772, 4–8–69, Cl. D14—6.
Wallace, George M. Fraternal standard or the like. 216,021, 11–18–69, Cl. D29—23.
Wallace, Leon C. Toy airplane. 215,457, 9–30–69, Cl. D34—15.
Wallace-Murray Corp., The: *See*—
Ament, Myron J. 213,442.
Wallace, Robert S. Tape cassette container. 213,157, 1–7–69, Cl. D87—1.
Wallace, Robert S. Beverage can holder. 215,748, 10–28–69, Cl. D44—21.
Walsh, Patrick J., and F. C. Heidtke, to American Can Co. Bagging tool. 215,272, 9–23–69, Cl. D9—252.
Walters, Darrel D. Fishing lure. 214,498, 6–24–69, Cl. D22—28.
Walters, Frank L.: *See*—
Crossland, Edward J., Walters, and Randall. 215,075.
Walters, Thomas J.: *See*—
Parry, Don, and Walters. 214,725.
Walters, William C., and C. Maxey. Buoyant life preserver. 216,163, 11–25–69, Cl. D71—1.
Walters, William C., and C. Maxey. Buoyant life preserver. 216,164, 11–25–69, Cl. D71—1.
Walters, William C., and C. Maxey. Buoyant life preserver. 216,165, 11–25–69, Cl. D71—1.
Walton-Richardson Co.: *See*—
De Flandre, Charles. 213,090.
Wangerin, Elmer O.: *See*—
Knowles, Frederick G., and Wangerin. 215,358.
Warn, Richard A., Sr.: *See*—
Hain, Robert, and Warn. 213,513.
Hain, Robert W., and Warn. 213,514.
Warnaco Inc.: *See*—
Ledewitz, William. 214,549.
Warnberg, Archie E. Toilet tissue roll cover. 213,884, 4–22–69, Cl. D33—17.
Warnberg, Archie E. Waste basket cover. 214,288, 5–27–69, Cl. D49—35.
Warnberg, Archie E. Container for a brush. 214,454, 6–17–69, Cl. D33—17.
Warnberg, Archie E. Cover for a clothes hamper. 214,462, 6–17–69, Cl. D49—8.2.
Warnberg, Archie E. Facial tissue box cover. 214,463, 6–17–69, Cl. D52—2.
Warner, James E., to AMP Inc. Tap-off connector for underground installation of electrical service. 214,792, 7–29–69, Cl. D26—1.
Warner-Lambert Pharmaceutical Co.: *See*—
Ninger, Fred C. 216,307.
Warrell, Lincoln A., to Pennsylvania Dutch Co., Inc. Closure cap for a jar or the like. 214,162, 5–20–69, Cl. D9—268.
Warren, Robert L., and R. A. Loturco, to Estey Musical Instrument Corp. Combination amplifier and speaker cabinet. 215,160, 9–9–69, Cl. D26—14.
Warwick Electronics, Inc.: *See*—
Kaminski, Donald F. 218,883.
Kaminski, Donald F., and Kapsaris. 215,449.
Miklas, Karl A. 214,290.
Washburn, Billy S., to Bowser, Inc. Diffuser for liquid aeration or the like. 213,108, 1–7–69, Cl. D23—4.
Washington Forge, Inc.: *See*—
Hain, Robert, and Warn. 213,513.
Hain, Robert W., and Warn. 213,514.
Washington Scientific Industries, Inc.: *See*—
Anderson, Kermit V. 215,969.
Wasil, Edwin E. Hanger rack. 216,208, 12–2–69, Cl. D33—17.
Wasnewsky, Charles R. Drawer pull shield. 214,810, 6–3–69, Cl. D10—8.
Watanabe, Riki, to Kabushiki Kaisha Koparu. Calendar clock or similar article. 214,807, 7–29–69, Cl. D42—7.
Watari, Kayomi. Chair. 213,190, 1–14–69, Cl. D15—1.
Waterloo, John W., Sr. Drawing instrument. 216,329, 12–16–69, Cl. D52—6.
Watlow Electric Mfg. Co.: *See*—
Desloge, George B. 214,342.
Watson, Carl E. Bow gun. 216,117, 11–25–69, Cl. D22—5.
Weatherby, Roy E., and F. L. Jennie. Spotting scope. 215,355, 9–23–69, Cl. D57—1.
Weatherby, Roy E., and F. L. Jennie. Scope sighter. 215,356, 9–23–69, Cl. D57—1.
Webb, David B.: *See*—
Barnett, Morris. 214,293.
Webb, George B.: *See*—
Bowman, Dean C., Waldrop, and Webb. 214,169.
Webb, Peter C.: *See*—
Waddington, Richard J., Webb, and Ashworth. 213,670.
Weber, Charles: *See*—
Bock, Gerald L., and Weber. 213,616.
Weber, Heinz, to Bremshey & Co. Runner for flat umbrella. 215,519, 9–30–69, Cl. D88—3.
Weber Showcase & Fixture Co., Div. of Walter Kidde & Co., Inc.: *See*—
Knab, James V. 214,375.
Weber-Stephen Products Co.: *See*—
Ver Halen, Richard T. 214,220.
Webster, Desmond E. Window stay. 215,645, 10–21–69, Cl. D8—111.
Weck, Edward, & Co., Inc.: *See*—
Biklen, Wayne M. 215,915.
Langdon, Arthur J. 214,112.
Weckman, Richard L., to Owens-Illinois, Inc. Bottle. 213,424, 3–4–69, Cl. D9—149.
Weckman, Richard L., to Owens-Illinois, Inc. Bottle. 213,762, 4–8–69, Cl. D9—23.
Weckman, Richard L., to Owens-Illinois, Inc. Bottle. 213,766, 4–8–69, Cl. D9—66.
Weckman, Richard L., to Owens-Illinois, Inc. Jug. 213,822, 4–15–69, Cl. D9—42.
Weckman, Richard L., to Owens-Illinois, Inc. Jar. 215,143, 9–9–69, Cl. D9—131.
Wed Enterprises Inc.: *See*—
Gracey, Yale W. 214,806.
Gurr, Robert H. 213,888.
Gurr, Robert H. 215,313.
Wedin, James A.: *See*—
Merritt, James A., and Wedin. 213,134.
Weeber, Marion, to American Home Products Corp. Bowl or similar article. 214,677, 7–15–69, Cl. D44—15.
Weeber, Marion, to American Home Products Corp. Bowl or similar article. 214,678, 7–15–69, Cl. D44—15.
Weeber, Marion, to American Home Products Corp. Bowl or similar article. 214,679, 7–15–69, Cl. D44—15.
Weeber, Marion, to American Home Products Corp. Spoon or similar article. 215,240, 9–16–69, Cl. D54—12.
Weeber, Marion, to American Home Products Corp. Spoon or similar article. 215,241, 9–16–69, Cl. D54—12.
Weeber, Marion, to American Home Products Corp. Spoon or similar article. 215,759, 10–28–69, Cl. D54—12.
Weeber, Marion, to American Home Products Corp. Knife. 215,996, 11–11–69, Cl. D95—3.
Wefco Rubber Mfg. Corp.: *See*—
Fremdling, William F. 214,085.
Weick, Heinz-Hermann. Clothes pin or the like. 214,194, 5–20–69, Cl. D49—1.
Weick, Heinz-Hermann. Clothes pin or the like. 214,195, 5–20–69, Cl. D49—1.
Weiner, Michael M. Door closer. 214,028, 5–6–69, Cl. D10—7.
Weingardt, Wilfred W. Bottle opener. 215,807, 11–4–69, Cl. D8—40.
Weinman, Mary. Cover for a toilet bowl or the like. 214,444, 6–17–69, Cl. D23—71.
Weinstein, Alex J.: *See*—
Portman, Warren C., and Weinstein. 215,336.
Portman, Warren C., and Weinstein. 215,337.
Portman, Warren C., and Weinstein. 215,338.
Weinstein, Joseph, to Cannon Mills Co. Textile fabric. 216,068, 11–18–69, Cl. D92—1.
Weiss, Hugh R., to The Pantasote Co. of New York. Combined food packaging and displaying tray. 214,363, 6–10–69, Cl. D9—187.
Weiss, Hugh R., to The Pantasote Co. of New York, Inc. Cake display tray. 214,391, 6–10–69, Cl. D44—19.
Weiss, Morton A., and B. S. Speckhart, to White Machine Co. Conveyor trolley hanger. 214,529, 6–24–69, Cl. D55—1.

Weiss, Morton A., and B. S. Speckhart, to White Machine Co. Conveyor trolley head addressing unit. 215,619, 10–14–69, Cl. D35—1.
Weissman, David: *See*—
Colwell, Guy J., Libby, Shireman, and Weissman. 215,234.
Colwell, Guy J., Libby, Shireman, and Weissman. 215,834.
Weitz, John. Combined wristwatch case and watchband. 214,525, 6–24–69, Cl. D45—4.
Weitzman, Mark R.: *See*—
Horton, George L., Jr., and Weitzman. 213,213.
Weitzman, Mark R., to Corning Glass Works. Drinking cup or the like. 213,389, 2–25–69, Cl. D44—9.
Welcome Wagon International Inc.: *See*—
Beringer, Rosanne. 213,901.
Wellhofer, Carl: *See*—
Friedman, Julius, and Wellhofer. 214,751.
Wellmann, Gerhard F.: *See*—
Josephsen, Roy C., Wellmann, and Stevens. 214,429.
Wells, Donald W., to Simple Simon Interstate, Inc. Restaurant building. 214,556, 7–1–69, Cl. D18—1.
Wells, Willis L., to Photronix, Inc. Film reader. 213,807, 4–8–69, Cl. D61—1.
Wenger, Fritz J., to Comptoir des Machines S.A. Combined fryer and storage locker. 215,249, 9–16–69, Cl. D81—10.
Werner, R. D., Co., Inc.: *See*—
Redman, James C. 213,809.
Redman, James C. 216,380.
Sulecki, Richard P. 214,892.
West, Robert F.: *See*—
Gutowski, Wojciech S., Kuchta, and West. 213,643.
West, Will H.: *See*—
Wright, Zane H. 214,400.
Westates Space-Era Products, Inc.: *See*—
Anderson, Frank R., and Castro. 213,470.
Anderson, Frank R., and Castro. 214,534.
Westcott, Edgar J.: *See*—
Bell, Mace, Jr., and Westcott. 215,836.
Western Drinking Fountains Inc.: *See*—
Vicknair, Thomas M., and Sargent. 215,092.
Western Electric Co., Inc.: *See*—
Bearse, Robert E. 214,795.
Bearse, Robert E. 214,796.
Bearse, Robert E. 216,265.
Westinghouse Electric Corp.: *See*—
Chapin, Roger F., Jr. 214,904.
Husby, Donald E., and Izzi. 213,582.
Kennedy, Robert W. 214,963.
Ryckman, Peter N., and Sparks. 213,539.
Schubert, Ralph E. 215,981.
Tresino, Louie R., and Curlee. 214,170.
Uber, Arthur E., Jr., Finch, and English. 215,237.
Weston, Eli A. Inertia responsive mounted figurine turning and stop signal for motor vehicles or similar article. 214,536, 6–24–69, Cl. D72—1.
Weston, Eli A. Inertia responsive mounted figurine turning signal for motor vehicles or similar article. 214,537, 6–24–69, Cl. D72—1.
Wetzke, Bernhard: *See*—
Kull, Eberhard, Wetzke, Griebel, Breite, and Wiesmair. 216,407.
Weyerhaeuser Co.: *See*—
Roccaforte, Harry I., Jordan, and Inch. 214,879.
Wham-O Mfg. Co.: *See*—
Adickes, Cecil F., and Schmidt. 215,165.
Holt, Gordon W., Jr. 214,387.
Wheatley, William J., Jr., to Philadelphia Asbestos Corp. Fastener for securing together layers of paper board, asbestos cloth and similar materials. 215,826, 11–4–69, Cl. D9—252.
Wheeler, Joseph S., Jr. Tile trim for a lavatory counter top or the like. 214,893, 8–12–69, Cl. D18—2.
Wheeler, Ray B.: *See*—
Kneale, Collan B., Sylte, Wheeler, and Wilkey. 214,626.
Wheeler, Robert G., to Wood Processes Oregon Ltd. Panel. 213,493, 3–11–69, Cl. D13—1.
Whisnand, Augustus W., G. C. Easterling, and D. H. Kipp. Vehicle towing apparatus or the like. 214,787, 7–29–69, Cl. D14—6.
White, Byron R. Portable hammer holder. 213,451, 3–4–69, Cl. 33—17.
White Machine Co.: *See*—
Weiss, Morton A., and Speckhart. 214,529.
Weiss, Morton A., and Speckhart. 215,619.
White Motor Corp.: *See*—
Dick, Harvey F. 214,038.
Dick, Harvey F. 214,039.
White, Robert J.: *See*—
Curtin, Kenneth M., Kern, White, and Baechle. 215,846.
White, William E.: *See*—
Waite, James E., and White. 214,949.
White, Winsor D., Jr., to D. H. Baldwin Co. Organ console. 213,224, 1–14–69, Cl. D56—2.
White, Winsor D., Jr., to D. H. Baldwin Co. Organ console. 213,225, 1–14–69, Cl. D56—2.
White, Winsor D., Jr., to D. H. Baldwin Co. Piano case. 213,227, 1–14–69, Cl. D56—9.
White, Winsor D., Jr., to D. H. Baldwin Co. Piano case. 213,255, 1–21–69, Cl. D56—9.
White, Winsor D., Jr., to D. H. Baldwin Co. Piano case. 213,593, 3–18–69, Cl. D56—9.
White, Winsor D., Jr., to D. H. Baldwin Co. Piano case. 214,530, 6–24–69, Cl. D56—9.
White, Winsor D., Jr., to D. H. Baldwin Co. Piano case. 214,650, 7–8–69, Cl. D56—9.
White, Winsor D., Jr., to D. H. Baldwin Co. Piano case. 214,651, 7–8–69, Cl. D56—9.
White, Winsor D., Jr., to D. H. Baldwin Co. Piano case. 214,652, 7–8–69, Cl. D56—9.
Whiteside, Aldon L. Combination ibrd bath and feeder. 215,607, 10–14–69, Cl. D30—13.
Whitney, Dorothy B.: *See*—
Moody, William B., and Whitney. 216,141.
Whrenberg, Jon W.: *See*—
Brendgord, Thomas, and Whrenberg. 213,139.
Widawsky, Gerald J. Metal detector. 214,951, 8–12–69, Cl. D52—6.
Wideroe Industri A/S: *See*—
Sollie, Bjarne. 215,151.
Widolf, Phillip R. Diving mask. 214,817, 7–29–69, Cl. D83—1.
Wieland, Howard N., and S. Spisak, to Gregory Industries, Inc. Stud welding tool. 213,200, 1–14–69, Cl. D26—1.
Wiesmair, Heinrich: *See*—
Kull, Eberhard, Wetzke, Griebel, Breite, and Wiesmair. 216,407.
Wigley, Wallace E. Golf club head. 216,030, 11–18–69, Cl. D34—5.
Wignall, Mary. Canister for salt or the like. 215,867, 11–4–69, Cl. D44—6.
Wilbert, Inc.: *See*—
Chandler, Wesley M., and Juba. 213,689.
Chandler, Wesley M., and Juba. 213,777.
Chandler, Wesley M., and Juba. 214,894.
Wilcox, Lucille M., to Fred Bassetti & Co./Architects. Carrel. 215,098, 9–2–69, Cl. D33—11.
Wildgen, Leo F.: *See*—
Pennock, Robert L., Jr., Monson, and Wildgen. 216,378.
Wildgen, Leo F., to Union Tank Car Co. Solvent dispenser for a water softening system or the like. 213,440, 3–4–69, Cl. 23—3.
Wilkey, Frank, Jr.: *See*—
Kneale, Collan B., Sylte, Wheeler, and Wilkey. 214,626.
Wilkinson, Raleigh J.: *See*—
Harwood, Charles C., and Wilkinson. 215,077.
Wilkinson Sword Ltd.: *See*—
Grange, Kenneth H. 216,001.
Hansom, Bernard S. 216,070.
Harper, Irving. 215,995.
Wilkson, Thomas L., to Walter E. Hayward Co., Inc. Finger ring. 215,613, 10–14–69, Cl. D45—10.
Willenbacher, Erich M., to The Singer Co. Sewing machine. 214,596, 7–1–69, Cl. D70—1.
Williams, Arthur L., to The McKay Machine Co. Flash welder. 214,447, 6–17–69, Cl. D26—1.
Williams, Arthur L., to The McKay Machine Co. Flash welder. 214,448, 6–17–69, Cl. D26—1.
Williams, Charles H. Telephone holder. 213,500, 3–11–69, Cl. D26—14.
Williams, Clyde H., to The Scott & Fetzer Co. Utility vacuum cleaner or similar article. 214,196, 5–20–69, Cl. D49—11.
Williams, Cole C., to American Hospital Supply Corp. Urine collection bag. 213,479, 3–4–69, Cl. D83—1.
Williams, Colin P. Chair. 214,623, 7–8–69, Cl. D15—11.
Williams, James R. Scaffold support or the like. 216,158, 11–25–69, Cl. D54—1.
Williams, Marguerita R. Girdle. 213,856, 4–22–69, Cl. D2—2.
Williams, Robert M. Desk stand. 214,106, 5–6–69, Cl. D74—5.
Williams, Selden T., to Scovill Mfg. Co. Tire valve cover. 213,854, 4–15–69, Cl. D90—20.
Willinger, Allan H., to Aquariums Inc. Aquarium filter. 213,555, 3–18–69, Cl. D23—4.
Willinger, Allan H. Fish feeder package. 214,431, 6–17–69, Cl. D9—193.
Willinger, Allan H., to Aquariums Inc. Bulb operated aquarium cleaning device. 214,918, 8–12–69, Cl. D30—12.
Willoughby, Connie C., to Cannon Mills Co. Fabric textile. 216,174, 11–25–69, Cl. D92—1.
Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 216,175, 11–25–69, Cl. D92—26.
Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 216,176, 11–25–69, Cl. D92—26.
Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 216,177, 11–25–69, Cl. D92—26.
Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 216,178, 11–25–69, Cl. D92—26.
Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 216,418, 12–30–69, Cl. D92—26.
Wills, Edwin B. Dragster trailer. 213,951, 4–29–69, Cl. D14—3.
Wills, George M., to Ideal Security Hardware Corp. Door latch handle. 214,715, 7–22–69, Cl. D8—159.
Wills, George M., to Ideal Security Hardware Corp. Door latch handle. 214,716, 7–22–69, Cl. D8—159.
Wilson & Cousins Co., Ltd.: *See*—
Campbell, Duncan H. 215,844.
Wilson, Elsworth W., to Stemco Mfg. Co., Inc. Fishing rod rack or the like. 215,008, 8–19–69, Cl. D33—3.
Wilson, John R., to Sunbeam Corp. Control for an electric blanket. 213,499, 3–11–69, Cl. D26—13.
Wilson, Lawrence A.: *See*—
Laybourn, Robert J., and Wilson. 213,783.
Wilton Brass Co.: *See*—
Fitzpatrick, John J., Hess, and Wilton. 215,230.
Fitzpatrick, John J., Hess, and Wilton. 215,231.
Fitzpatrick, John J., Hess, and Wilton. 215,232.
Fitzpatrick, John J., Hess, and Wilton. 215,233.

Wince, Vearl S., to Holophane Co., Inc. Luminaire. 215,339, 9–23–69, Cl. D48—23.
Wince, Vearl S., to Holophane Co., Inc. Luminaire. 215,340, 9–23–69, Cl. D48—23.
Winchell, Paul. Jewelry pendant or similar article. 216,371, 12–23–69, Cl. D45—17.
Winegardner, Donald E., to The Majestic Co., Inc. Electric fireplace. 213,960, 4–29–69, Cl. D23—97.
Winegardner, John B., to Lennox Industries Inc. Pressure cylinder. 213,249, 1–21–69, Cl. D23—2.
Winer, Ephraim, to National Industries, Inc. Restaurant booth unit or similar article. 214,374, 6–10–69, Cl. D15—8.
Winkler, Lorimer B., to Winkler Sign Co. Under-canopy sign. 216,183, 11–25–69, Cl. D96—12.
Winkler Sign Co.: *See*—
Winkler, Lorimer B. 216,183.
Winn, Charles S. Mount for folding doors. 213,644, 3–25–69, Cl. D54—1.
Winston, Eric, and E. M. Frank, to Jerrold Electronics Corp. Signal distribution housing for CATV. 215,722, 10–28–69, Cl. D26—5.
Winters, Robert C.: *See*—
Hamilton, Clarence O., II, Winters, and Spilman. 213,870.
Wirkkala, Tapio, to Oy Airam AB. Light bulb, 216,315, 12–16–69, Cl. D26—8.
Wirths, Paul, Metallwarenfabrik: *See*—
Schmidt, Gunter. 213,337.
Wisdom, Gerald F.: *See*—
Fisher, James E., Mitchell, and Wisdom. 215,863.
Wise, Lewis A., and J. E. Grimm. Disposable anesthetist's kit. 215,982, 11–11–69, Cl. D83—1.
Witt, Warren D. Mast holder for surfboard. 214,103, 5–6–69, Cl. D71—1.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 215,992, 11–11–69, Cl. D90—20.
Wittern, Francis A., to Fawn Engineering Co. Door panel for a dispensing machine. 216,223, 12–2–69, Cl. D52—3.
Woerner, Robert L. Necktie rack. 213,975, 4–29–69, Cl. D33—8.
Wolaver, Robert M., to Eaton Yale & Towne Inc. Master control unit for a centralized oil lubricating system. 213,218, 1–14–69, Cl. D52—2.
Wolf, Donald A., to The Huffman Mfg. Co. Bicycle chain guard extension. 215,681, 10–21–69, Cl. D90—5.
Wolf, Donald A., to The Huffman Mfg. Co. Bicycle chain guard. 215,682, 10–21–69, Cl. D90—5.
Wolf, Donald A., to The Huffman Mfg. Co. Bicycle front desk. 216,382, 12–23–69, Cl. D90—9.
Wolf, Edward M., and S. J. Koll, to American Flange & Manufacturing Co. Inc. Battery terminal insulator or similar article. 214,379, 6–10–69, Cl. D26—6.
Wolf, Lee, to Haley Corp. Accessory tray for a vacuum cleaner or the like. 214,587, 7–1–69, Cl. D49—17.
Wolf, Murray. Combined billfold and purse. 215,908, 11–4–69, Cl. D87—3.
Wolf, Walter A., to Switches, Inc. Electrical switch housing. 215,602, 10–14–69, Cl. D26—13.
Wolfe, Walter W., and H. A. Holten. Paddle for centrifugal thrower. 213,829, 4–15–69, Cl. D23—165.
Wolff, Aaron H. Hamper. 213,335, 2–18–69, Cl. D49—8.2.
Wolff, Martin J., to Sperry Rand Corp. Portable electrical appliance handle. 214,661, 7–15–69, Cl. D4—14.
Wolpert, Lionel, and M. Tampa, to Air Reduction Co., Inc. Tube trailer. 215,711, 10–28–69, Cl. D14—3.
Wolverine Brass Works: *See*—
Contreras, Andrew L. 215,936.
Wood Processes Oregon Ltd.: *See*—
Wheeler, Robert G. 213,493.
Woodall Industries Inc.: *See*—
Feer, Lawrence P., and Faul. 215,895.
Woodcock, James. Door lock. 215,266, 9–23–69, Cl. D8—109.
Woodring, Cooper C.: *See*—
Makris, Aristides, and Woodring. 216,063.
Woofter, Cecil B. Keyholder. 213,907, 4–22–69, Cl. D50—4.
Woofter, Cecil B. Combination calendar stand and trivet. 214,522. 6–24–69, Cl. D44—10.
Woofter, Cecil B., to The Vernon Co. Rain gauge. 215,962, 11–11–69, Cl. D52—6.
Woolfolk, William F. Belt attached purse. 214,984, 8–19–69, Cl. D2—400.
Worden Co., The: *See*—
Gulliford, Tom O., and Bicknell. 214,921.
Gulliford, Tom O., and Bicknell. 214,957.
World Tableware Corp.: *See*—
Toffolon, Siro R. 214,691.
Toffolon, Siro R. 216,159.
Worley, George W., to Troxel Mfg. Co. Backrest for a bicycle seat. 214,119, 5–6–69, Cl. D90—16.
Wormser, Robert S., to Game-Time, Inc. Clown-shaped head for recreational equipment. 213,268, 1–28–69, Cl. D34—4.
Wormser, Robert S., to Game-Time, Inc. Man-shaped head for recreational equipment. 213,269, 1–28–69, Cl. D34—4.
Wormser, Robert S., to Game-Time, Inc. Clown head for playground apparatus. 213,270, 1–28–69, Cl. D34—4.
Wormser, Robert S., to Game-Time, Inc. Playground climber with moon face. 213,272, 1–28–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Lion-shaped head for recreation equipment. 213,273, 1–28–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Rabbit-shaped seat for playground apparatus. 213,274, 1–28–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Dragon head for playground apparatus. 213,275, 1–28–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Buffalo-shaped seat for playground apparatus. 213,276, 1–28–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Cow-shaped seat for playground apparatus. 213,277, 1–28–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Rhino-shaped seat for playground apparatus. 213,278, 1–28–69, Cl. D34—15.
Wormser, Robert S., to Game-Time Inc. Bench. 213,496, 3–11–69, Cl. D15—11.
Wormser, Robert S., to Game-Time, Inc. Double tower playground apparatus. 213,504, 3–11–69, Cl. D34—5.
Wormser, Robert S., to Game-Time Inc. Witch faced playground climber and slide. 213,505, 3–11–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Combined playground climber and slide. 213,508, 3–11–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Combined playground climber and slide. 214,326, 6–3–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Playground swing. 214,327, 6–3–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Combination park bench and planter. 214,439, 6–17–69, Cl. D15—11.
Wormser, Robert S., to Game-Time, Inc. Scarecrow-shaped head for recreational equipment. 214,455, 6–17–69, Cl. D34—4.
Wormser, Robert S., to Game-Time, Inc. Playground climber. 215,061, 8–26–69. Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Playground climber or similar article. 215,062, 8–26–69. Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Boat-shaped climber unit. 215,063, 8–26–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Dolphin-shaped seat for playground apparatus. 215,064, 8–26–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Wolf-shaped seat for playground apparatus. 215,065, 8–26–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Pig-shaped seat for playground apparatus. 215,066, 8–26–69, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Playground climber or similar device. 215,164, 9–9–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Double park bench. 215,839, 11–4–69, Cl. D15—11.
Wormser, Robert S., to Game Time, Inc. Playground climber. 215,946, 11–11–69, Cl. D34—5.
Wormser, Robert S., to Game-Time, Inc. Playground swing support adapter. 216,318, 12–16–69. Cl. D34—5.
Worstell, Charles C. Teaching aid for use with data processing cards. 213,371, 2–25–69, Cl. D25—1.
Wright, Earl B. Cordless electric minnow bucket aerator. 214,669, 7–15–69, Cl. D22—22.
Wright, George M., Jr. Commercial building. 215,827, 11–4–69, Cl. D13—1.
Wright, Zane H. 20% to Sidney Bradpiece and 40% to Will H. West. Milling machine head. 214,400, 6–10–69, Cl. D54—14.
Wurlitzer Co., The: *See*—
Benson, Kenneth G. 214,211.
Benson, Kenneth G. 214,212.
Gagne, John G. 213,591.
Wyckoff, Marlin H., to Sierra Engineering Co. Sporting safety helmet. 213,085, 1–7–69, Cl. D2—231.
Wyomissing Corp.: *See*—
Seelig, Oliver N. 215,919.
Xerox Corp.: *See*—
Anderson, Stephen R., Crandell, and Pease. 214,959.
Kalvitis, Robert E. 215,294.
Kalvitis, Robert E. 215,660.
Kalvitis, Robert E. 215,849.
Kalvitis, Robert E., and Heller. 216,123.
Plantholt, Robert G. 215,218.
Stehl, George R. 216,157.
Stessel, Martin C., Dalton, Dulin, Jones, and Schachner. 214,699.
Yamagishi, Teruo, to Hayakawa Denki Kogyo Kabushiki Kaisha (also known as Hayakawa Electric Co., Ltd.). Electronic cooking oven. 216,284, 12–9–69, Cl. D81—4.
Yamaha Hatsudoki Kabushiki Kaisha (Yamaha Motor Co., Ltd.): *See*—
Ekuan, Kenji. 216,389.
Ekuan, Kenji. 216,390.
Yamamoto, Yuuki. Skillet-covered cooking pot. 216,324, 12–16–69, Cl. D44—1.
Yang, Peter Q., to The Gray Mfg. Co. Transcribing adaptor or similar article. 213,568, 3–18–69. Cl. D26—14.
Yang, Peter Q., to The Gray Mfg. Co. Combined portable dictating and transcribing machine or similar article. 214,794, 7–29–69, Cl. D26—14.
Yeager, Eugene W., to Digital Information Devices Inc. Data keyboard. 215,297, 9–23–69, Cl. D26—5.
Yentis, Jonathan, and C. H. Staff, to Pet Inc. Snack food. 215,194, 9–16–69, Cl. D1—13.
Yeo, Ronald W. Newspaper display stand. 213,532, 3–11–69, Cl. D80—11.
Yon, James H., Jr., to Jett Mfg. Corp. Automatic lubrication system for knitting machines. 213,515, 3–11–69, Cl. D46—1.
Yonkers, Robert A., to Bissell Inc. Combined fluid dispenser with brush for cleaning upholstery or the like. 214,260, 5–27–69. Cl. D4—7.
Yoshinaga Prince Co., Ltd.: *See*—
Yoshinaga, Sadao. 215,960.
Yoshinaga, Sadao, to Yoshinaga Prince Co., Ltd. Cigarette lighter or similar article. 215,960, 11–11–9. Cl. D48—27.
Yoshino, Zenzaburo, to Zenza Bronica Kogyo Kabushiki Kaisha. Cigarette lighter. 213,517, 3–11–69, Cl. D48—27.

Young, Albert, to Ultradynamics Corp. Ultra-violet water purifier. 215,000, 8–19–69, Cl. D23—3.
Young, David E., to Electone Hearing Aid Co. Hearing aid. 213,109, 1–7–69, Cl. D26—14.
Young, Henry R.: *See*—
Bellinson, Bernard, and Young. 215,706.
Young, Raymond W.: *See*—
Niemann, James E., and Young. 216,120.
Young, Robert H. Specialized building for vehicle service. 214,885, 8–12–69, Cl. D13—1.
Young, Stephen A. Single lever lavatory shell or the like. 213,875, 4–22–69. Cl. D23—32.
Younge, Paul D.: *See*—
Hanson, Thomas E., and Younge. 215,132.
Yow, Larry R.: *See*—
Inman, Samuel W., Jr., and Yow. 215,763.
Yran, Knut O., to U.S. Philips Corp. Radio. 215,675, 10–21–69, Cl. D56—4.
Yran, Knut O., to U.S. Philips Corp. Combination radio and battery charger. 216,374, 12–23–69, Cl. D56—4.
Yurdin, Carl R., to Branson Instruments, Inc. Ultrasonic cleaning apparatus. 215,017, 8–19–69, Cl. D49—1.
Yutzey, Marvin G., to Fostoria Glass Co. Goblet. 213,250, 1–21–69, Cl. D36—8.
Yutzey, Marvin G., to Fostoria Glass Co. Sherbet. 213,251, 1–21–69, Cl. D36—8.
Yutzey, Marvin G., to Morgantown Glassware Guild, Inc. Pitcher. 213,331, 2–18–69, Cl. D44—21.
Yutzey, Marvin G., to Morgantown Glassware Guild, Inc. Tumbler or similar article. 214,578, 7–1–69, Cl. D36—8.
Zacharia, Anthony. Holder for a paper pad. 213,236, 1–14–69, Cl. D74—1.
Zagwyn, Anthony T., to A.J. Industries Corp. Golf cart handle grip. 215,081, 9–2–69, Cl. D8—138.
Zahler, Norvert J. Snow scoop. 214,636, 7–8–69, Cl. D35—2.
Zandelin, Johan S. Telephone index. 213,148, 1–7–69, Cl. D74—1.
Zanuso, Marco, and R. F. Sapper, to Necchi Societa per Azioni. Design for a sewing machine. 215,368, 9–23–69, Cl. D70—1.
Zapolski, Bronislaw, to H. J. Ashe. Portable electric lamp. 214,752, 7–22–69, Cl. D48—24.
Zapolski, Bronislaw, to H. J. Ashe. Clip-on flashlight. 214,943, 8–12–69, Cl. D48—24.
Zapolski, Bronislaw, to H. J. Ashe. Electric lantern. 215,614, 10–14–69. Cl. D48—24.
Zarn, Inc.: *See*—
Debs, Pierre J. 215,539.
Zelenko, Harry. Playing piece for a game. 216,133, 11–25–69, Cl. D34—2.
Zenith Radio Corp.: *See*—
Boldt, Melvin H. 215,565.
Boldt, Melvin H. 216,051.
Chuboff, David P., and Stevens. 216,381.
Gerb, Francis J. 216,050.
Seidel, Ralph H. 215,238.
Zenza Bronica Kogyo Kabushiki Kaisha: *See*—
Yoshino, Zenzaburo. 213,517.
Zerlaut, Leonard E., to Conrac Corp. Lapping machine. 215,322, 9–23–69, Cl. D37—1.
Ziegler, Harry E., to May-Fran Mfg. Co. Conveyor. 214,094, 5–6–69, Cl. D55—1.
Ziegler, Harry E., to May-Fran Mfg. Co. Conveyor. 214,209, 5–20–69, Cl. D55—1.
Ziegler, Philip C. Fish lure. 214,045, 5–6–69, Cl. D22—27.
Zielinski, Norbert. Combined target and game board. 213,209, 1–14–69, Cl. D34—5.
Zijlstra, Rudolph B., to U.S. Philips Corp. Dust bag filling indicator. 214,087, 5–6–69, Cl. D52—6.
Zilg, George L., and J. S. Kirman, to The Singer Co. Pin cushion or similar article. 215,046, 8–26–69, Cl. D3—19.
Zimmon, Harold, and D. L. Strom, to American Hospital Supply Corp. Nurse's surgical cap. 214,482, 6–24–69, Cl. D2—243.
Zundel, Arthur P., to American Can Co. End closure for a container. 215,923, 11–11–69, Cl. D9—255.

1969

LIST OF PLANT PATENTEES

Amling-De Vor Nurseries, Inc.: *See*—
Lammerts, Walter E. 2,876.

Anderson, Frederic W., to The Burchell Nursery, Inc., Apricot tree. 2,877, 4–1–69, Cl. 39.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,878, 4–1–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,879, 4–1–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Apricot tree. 2,880, 4–22–69, Cl. 39.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,883, 5–6–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,894, 6–10–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,895, 6–10–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,896, 6–17–69, Cl. 41.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,900, 7–1–69, Cl. 15.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,914, 8–5–69, Cl. 18.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,915, 8–5–69, Cl. 6.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,927, 10–7–69, Cl. 20.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,928, 10–7–69, Cl. 19.

Armstrong, David L., to Armstrong Nurseries, Inc. Nectarine tree. 2,929, 10–7–69, Cl. 41.

Armstrong, David L., to Armstrong Nurseries, Inc. Peach tree. 2,930, 10–7–69, Cl. 43.

Armstrong, David L., to Armstrong Nurseries, Inc. Nectarine tree. 2,943, 11–25–69, Cl. 41.

Armstrong, David L., to Stark Bro's Nurseries & Orchards Co. Peach tree. 2,944, 11–25–69, Cl. 43.

Armstrong, David L., to Armstrong Nurseries, Inc. Nectarine tree. 2,958, 12–23–69, Cl. 41.

Armstrong Nurseries, Inc.: *See*—
Armstrong, David L. 2,900.
Armstrong, David L. 2,914.
Armstrong, David L. 2,915.
Armstrong, David L. 2,927.
Armstrong, David L. 2,928.
Armstrong, David L. 2,929.
Armstrong, David L. 2,930.
Armstrong, David L. 2,943.
Armstrong, David L. 2,958.
Swim, Herbert C. 2,957.

Asper, James H., to Monrovia Nursery Co. Camellia plant. 2,873, 3–25–69, Cl. 61.

Asper, James H., to Monrovia Nursery Co. Camellia plant. 2,874, 3–25–69, Cl. 61.

Asper, James H., to Monrovia Nursery Co. Camellia plant. 2,875, 3–25–69, Cl. 61.

Baerman, Ralph, to Selected Glads, Inc. Gladiolus plant. 2,903, 7–15–69, Cl. 85.

Bodley, Royden M. Rose plant. 2,893, 6–10–69, Cl. 27.

Boerner, Eugene S., deceased (by Lincoln Rochester Trust Co., and R. L. Boerner, executors), to Jackson & Perkins Co. Chrysanthemum plant. 2,866, 2–25–69, Cl. 78.

Boerner, Eugene S., deceased (by Lincoln Rochester Trust Co., and R. L. Boerner, executors), to Jackson & Perkins Co. Rose plant. 2,885, 5–6–69, Cl. 26.

Boerner, Eugene S., deceased (by Lincoln Rochester Trust Co., and R. L. Boerner, executors), to Jackson & Perkins Co. Rose plant. 2,886, 5–13–69, Cl. 26.

Boerner, Roger L.: *See*—
Boerner, Eugene S. 2,866.
Boerner, Eugene S. 2,885.
Boerner, Eugene S. 2,886.

Boyd, Fernando C., Jr., to Boyd Nursery Co., Inc. Dogwood tree. 2,916, 8–12–69, Cl. 51.

Boyd Nursery Co., Inc.: *See*—
Boyd, Fernando C., Jr. 2,916.

Burchell Nursery, Inc., The: *See*—
Anderson, Frederic W. 2,877.

Calvino, Stefano. Rose plant. 2,932, 10–21–69, Cl. 19.

Calvino, Stefano. Hybrid tea rose plant, specially adapted for large-scale cultivation for cut flower production. 2,933, 10–21–69, Cl. 20.

Chaplin, Charles F. Dieffenbachia plant. 2,869, 2–25–69, Cl. 88.

Cobia, Barnell L. Variety of Hoya Carnosa with tricolor foliage. 2,950, 12–9–69, Cl. 88.

De Graaff, Jan, to Oregon Bulb Farms, Division of Melridge Inc. Lily plant. 2,882, 5–6–69, Cl. 68.

Diede, Herbert, to Stark Bro's Nurseries & Orchards Co. Apple tree. 2,956, 12–23–69, Cl. 35.

Driscoll Strawberry Associates: *See*—
Johnson, Harold A., Jr., and Thomas. 2,891.
Johnson, Harold A., Jr. and Thomas. 2,892.
Johnson, Harold A., Jr., and Thomas. 2,897.

Ecke, Paul. Poinsettia plant. 2,865, 2–25–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,923, 9–30–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,924, 9–30–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,925, 9–30–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,926, 9–30–69, Cl. 86.

Ecke, Paul, Inc.: *See*—
Ecke, Paul. 2,923.
Ecke, Paul. 2,924.
Ecke, Paul. 2,925.
Ecke, Paul. 2,926.

Flemer, William, III, to Treesearch. Crab apple tree. 2,912, 7–29–69, Cl. 34.

Flemer, William, III, to Treesearch. Crab apple tree. 2,913, 7–29–69, Cl. 34.

Flemer, William, III, to Treesearch. Maple tree. 2,917. 8–12–69, Cl. 51.

Flemer, William, III, to Treesearch. Yellow-wood tree. 2,935, 10–28–69, Cl. 51.

Flemer, William, III, to Treesearch. Oak tree. 2,936, 10–28–69, Cl. 51.

Fritscher, Henry G., to Selected Glads, Inc. Gladiolus plant. 2,904, 7–15–69, Cl. 85.

Gabrielsen, Joseph A. Purple raspberry. 2,898, 7–1–69, Cl. 46.

Garabedian, John M., to Peach & Willow Farms. Plum tree. 2,858, 1–21–69, Cl. 38.

Hagestrom, Marion, to Stark Bro's Nurseries & Orchards Co. Strawberry plant. 2,884, 5–6–69, Cl. 48.

Hill, E. G., Co., Inc.: *See*—
Jelly, Robert G. 2,902.

Hill Top Orchards and Nurseries, Inc.: *See*—
Robison, Stanley, and Wallace. 2,934.

Holtkamp, Hermann, Sr. African violet plant. 2,922, 9–30–69, Cl. 69.

Huston, Tom, to Peaches of Florida, Inc. Peach tree. 2,888, 5–20–69, Cl. 43.

Jackson & Perkins Co.: *See*—
Boerner, Eugene S. 2,866.
Boerner, Eugene S. 2,885.
Boerner, Eugene S. 2,886.
Zombory, William and S. B. 2,867.

Jelly, Robert G., to E. G. Hill Co., Inc. Rose plant. 2,902, 7–8–69, Cl. 22.

Jensen, Peter A. R. Thuja occidentalis. 2,861, 2–18–69, Cl. 50.

Johnson, Harold A., Jr., and H. E. Thomas, to Driscoll Strawberry Associates. Strawberry plant. 2,891, 6–10–69, Cl. 49.

Johnson, Harold A., Jr. and H. E. Thomas to Driscoll Strawberry Associates, Strawberry plant. 2,892, 6–10–69, Cl. 48.

Johnson, Harold A., Jr., and H. E. Thomas, to Driscoll Strawberry Associates. Strawberry plant. 2,897, 7–1–69, Cl. 49.

Julen, Axel G. J. Bluegrass plant. 2,887. 5–20–69, Cl. 88.

Kennon, Andrew W. Apricot tree. 2,906, 7–15–69, Cl. 39.

Kerrigan, Howard, to Nurserymen's Exchange, Inc. Azalea plant. 2,918, 9–16–69, Cl. 57.

Kerrigan, Howard. Azalea plant. 2,939, 11–11–69, Cl. 57.

Klehm, Carl G. Variety of peony. 2,951, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,952, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,953, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,954, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,955, 12–16–69, Cl. 68.

Lammerts, Walter E., to Amling-De Vor Nurseries, Inc. Rose plant. 2,876, 4–1–69, Cl. 11.

Larus, Charles T.: *See*—
Larus, John R. and C. T. 2,905.

Larus, John R. and C. T., to Selected Glads, Inc. Gladiolus plant. 2,905, 7–15–69, Cl. 85.

Le Grice, Edward B. Rosa floribunda plant. 2,856, 1–21–69. Cl. 28.

Lincoln Rochester Trust Co.: *See*—
Boerner, Eugene S. 2,866.
Boerner, Eugene S. 2,885.
Boerner, Eugene S. 2,886.

Long, John A., to The O. M. Scott & Sons Co. St. Augustinegrass. 2,863, 2–18–69, Cl. 88

Long, John A., to The O. M. Scott & Sons Co. St. Augustinegrass. 2,864. 2–18–69. Cl. 88.

Mackay, Ian F., to Texas Rose Research Foundation, Inc. Rose plant. 2,942, 11–25–69, Cl. 20.

McCabe, Markie, to Monrovia Nursery Co. Ash tree. 2,860, 1–28–69, Cl. 51.

McCormick, Howard E. Persea gratissima (avocado). 2,948, 12–9–69, Cl. 44.

McFeely, George R. Plum tree. 2,938, 11–11–69, Cl. 38.
McGredy, Samuel D. Rose plant. 2,919, 9–16–69, Cl. 19.
McLucas, Ben F. Peach tree. 2,931, 10–14–69, Cl. 43.
Meilland, Marie L. Rose plant. 2,857, 1–21–69, Cl. 28.
Meilland, Marie L. Rose plant. 2,859, 1–28–69, Cl. 20.
Meilland, Marie Louise. Rose plant. 2,862, 2–18–69, Cl. 11.
Meilland, Marie L. Rose plant. 2,949, 12–9–69, Cl. 15.
Mercuri, Pasquale, and G. Mercury. Carnation plant. 2,870, 3–11–68, Cl. 70.
Mercuri, Pasquale, and G. Mercury. Carnation plant. 2,871. 3–11–68, Cl. 73.
Mercury, George: *See*—
Mercuri, Pasquale, and Mercury. 2,870.
Mercuri, Pasquale, and Mercury. 2,871.
Miller, Mark A. Geranium plant. 2,868, 2–25–69, Cl. 68.
Mills, Foster. Pin oak tree. 2,899, 7–1–69, Cl. 51.
Monrovia Nursery Co.: *See*—
Asper, James H. 2,873–5.
McCabe, Markie. 2,860.
Moore, Ralph S. Miniature rose plant. 2,909, 7–22–69, Cl. 7.
Moore, Ralph S. Miniature rose plant. 2,910, 7–22–69, Cl. 7.
Moore, Ralph S. Miniature rose plant. 2,911, 7–22–69, Cl. 8.
Moore, Ralph S. Miniature rose plant. 2,921, 9–23–69, Cl. 8.
Morey, Dennison H. Rose plant. 2,946, 12–9–69, Cl. 24.
Morey, Dennison H., Jr. Rose plant. 2,947, 12–9–69, Cl. 15.
Murray, Merritt J., to A. M. Todd Co. Mint strain. 2,907, 7–22–69, Cl. 89.
Murray, Merritt J., to A. M. Todd Co. Mint strain. 2,908, 7–22–69, Cl. 89.
Nurserymen's Exchange, Inc.: *See*—
Kerrigan, Howard. 2,918.
Oregon Bulb Farms, Division of Melridge Inc.: *See*—
De Graaff, Jan. 2,882.
Patterson, John W. Rose. 2,881, 4–22–69, Cl. 21.
Peach & Willow Farms: *See*—
Garabedian, John M. 2,858.
Peaches of Florida, Inc.: *See*—
Huston, Tom. 2,888.
Pecoff, Ronald. Acacia plant. 2,920, 9–23–69. Cl. 54.
Ponchalek, Joseph J., to Stark Bro's Nurseries & Orchards Co. Peach tree. 2,941, 11–18–69, Cl. 43.
Reedley Nursery, Inc.: *See*—
Anderson, Frederic W. 2,878.
Anderson, Frederic W. 2,879.
Anderson, Frederic W. 2,880.
Anderson, Frederic W. 2,883.
Anderson, Frederic W. 2,894.
Anderson, Frederic W. 2,895.
Anderson, Frederic W. 2,896.
Wileman, Leonard K. 2,937.
Robison, Stanley, and I. E. Wallace, to Hill Top Orchards and Nurseries, Inc. Apple tree. 2,934, 10–21–69, Cl. 34.
Russo, Mariano B., and E. E. Slaybaugh, to Slaybaugh Bros. Nursery, a partnership composed of E. E. and R. I. Slaybaugh. Peach tree. 2,940, 11–18–69, Cl. 43.
Selected Glads, Inc.: *See*—
Baerman, Ralph. 2,903.
Fritscher, Henry G. 2,904.
Larus, John R. and C. T. 2,905.
Scott, O. M., & Sons Co., The: *See*—
Long, John A. 2,863.
Long, John A. 2,864.
Slaybaugh Bros. Nursery: *See*—
Russo, Mariano B., and Slaybaugh. 2,940.
Slaybaugh, Earl E.: *See*—
Russo, Mariano B., and Slaybaugh. 2,940.
Small, Earl J., Orchids, Inc.: *See*—
Sweet, Jack S. 2,889.
Spoto, Henry R., Sr. Peach tree. 2,901, 7–8–69, Cl. 43.
Stark Bro's Nurseries & Orchards Co.: *See*—
Armstrong, David L. 2,944.
Diede, Herbert. 2,956.
Hagerstrom, Marion. 2,884.
Ponchalek, Joseph J. 2,941.
Swim, Herbert C., to Armstrong Nurseries, Inc. Olive tree. 2,957, 12–23–69, Cl. 33.
Swim, Herbert C., and O. L. Weeks; said Swim assor. to said Weeks, d.b.a. Weeks Wholesale Rose Grower. 2,945, 12–9–69, Cl. 22.
Sweet, Jack S., to Earl J. Small Orchids, Inc. Poinsettia plant. 2,889, 5–27–69, Cl. 86.
Texas Rose Research Foundation, Inc.: *See*—
Mackay, Ian F. 2,942.
Thomas, Harold E.: *See*—
Johnson, Harold A., Jr., and Thomas. 2,891.
Johnson, Harold A., Jr., and Thomas. 2,892.
Johnson, Harold A., Jr., and Thomas. 2,897.
Todd, A. M., Co.: *See*—
Murray, Merritt J. 2,907.
Murray, Merritt J. 2,908.
Treesearch: *See*—
Flemer, William, III. 2,912.
Flemer, William, III. 2,913.
Flemer, William, III. 2,917.
Flemer, William, III. 2,935.
Flemer, William, III. 2,936.
Wallace, Ivan E.: *See*—
Robison, Stanley, and Wallace. 2,934.
Watson, Jerrold A. Peach tree. 2,890, 6–10–69, Cl. 43.
Weeks, O. L.: *See*—
Swim, Herbert C., and Weeks. 2,945.
Weeks Wholesale Rose Grower: *See*—
Swim, Herbert C., and Weeks. 2,945.
Wileman, Leonard K., to Reedley Nursery, Inc. Nectarine tree. 2,937, 11–11–69, Cl. 41.
Yoshimura, Raymond. Azalea plant. 2,872, 3–25–69, Cl. 57.
Zombory, Sophia B.: *See*—
Zombory, William and S. B. 2,867.
Zombory, William and S. B., to Jackson & Perkins Co. Dianthus plant. 2,867, 2–25–69, Cl. 70.

1969

LIST OF DEFENSIVE PUBLICATIONS

Abbott, Thomas I. Printing plate element. 862,018, 5–27–69. Cl. 96—36.3.

Agett, Albert H., and P. Gallagher, to Eastman Kodak Co. Filter cigarette assembly having its paper overwrap mechanically locked in place. 861,014, 4–8–69. Cl. 131—10.

Aiken, Howard A., and G. C. Oppenlander, to Hercules Inc. Process for dry spinning poly(4-methyl-1-pentene). 860,003, 3–18–69. Cl. 264—210.

Akin, George A.: *See*—
Larkins, Thomas H., Jr., Young, and Akin. 863,010.

Allen, Robert L., R. F. Wenger, and D. W. Williston, to E. I. du Pont de Nemours and Co. Color stabilization of caprolactam. 858,003, 1–7–69. Cl. 260—239.3.

Alpert, Edward D., C. M. Shaw, and J. H. Humphreys, Jr., to Atlantic Richfield Co. Method and apparatus for determining gasoline plugging index. 866,023, 9–16–69. Cl. 73—61.

Aluminum Co. of America: *See*—
Dunn, Lloyd G. 866,014.

Anderson, Billy D.: *See*—
Stranch, James G., and Anderson. 861,010.

Anderson, Robert F. Reservoir tray. 860,020, 3–25–69. Cl. 229—2.5.

Arots, Joseph B., and J. E. Mirolli to Hercules Inc. Corrosion inhibiting. 866,011, 9–2–69. Cl. 260—37.

Atlantic Richfield Co.: *See*—
Alpert, Edward D., Shaw, and Humphreys. 866,023.

Avila, Arthur J., and T. E. Torok, to Western Electric Co., Inc. Methods of and apparatus for treating articles. 868,001, 11–18–69. Cl. 204—28.

Bader, James J.: *See*—
Titchenal, Oliver R., Bader, and Hoyle. 861,046.

Baetzold, Roger C. Method for extending the flash life of vapor-filled electric discharge lamps. 862,012, 5–6–69. Cl. 250—50.

Bajorek, Benjamin T.: *See*—
Mitchell, James W., Jr., and Bajorek. 864,020.

Bard, Charleton C., and J. C. Battaglini. Regeneration of photographic silver bleach solutions. 862,009, 5–6–69. Cl. 96—60.

Barkey, Kenneth T., and D. C. May. Apparatus and method for improving solid phase, fluidized bed polyesterification process. 864,018, 7–29–69. Cl. 260—75.

Barnett, Anthony M., R. F. Bulgin, M. Smith, and I. R. Dicker. Photographic element containing a developing agent and a water-insoluble zinc salt. 867,011, 10–21–69. Cl. 96—61.

Battaglini, Julius C.: *See*—
Bard, Charleton C., and Battaglini. 862,009.

Baxendale, Ralph W., and G. F. L. Wood. Dry processed photographic materials containing processing stabilizers. 867,007, 10–21–69. Cl. 96—66.

Baxter, William F., Jr., and W. E. Draper. Partially oxidized polyethylene coatings for fresh eggs. 869,022, 12–30–69, Cl. 99—161.

Bayer, Robert O. Inorganic fibers containing positively charged silica and fibrous potassium titanate. 864,015, 7–29–69, Cl. 162—152.

Beavers, Dorothy J.: *See*—
Kalenda, Norman W., and Beavers. 861,048.
Kalenda, Norman W., and Beavers. 862,021.
Kalenda, Norman W., and Beavers. 866,036.
Smith, William F., and Beavers. 861,047.

Beavers, Dorothy J. Cyclic diones as emulsion stabilizers and antifoggants. 866,035, 9–30–69. Cl. 96—85.

Beavers, Dorothy J. Silver halide emulsions containing metal chelate fog inhibitors. 866,022, 9–16–69. Cl. 96—110.

Beavers, Dorothy J., and W. F. Smith. Photographic materials stabilized with oxypentamidine and tetraazaindene antifoggants. 864,022. 7–29–69. Cl. 96—109.

Becraft, Lloyd G.: *See*—
Gordy, Travis L., and Becraft. 866,033.

Benton, Charles H.: *See*—
Ulmschneider, Lawrence A., and Benton. 867,005.

Benton, Charles H. Means and method of hemodialysis. 867,015, 10–28–69. Cl. 128—214.

Berkowitch, John E., to E. I. du Pont de Nemours and Co. Synthetic polyester in methylene chloride solution stabilized with tetraphenyl tin. 863,008, 6–24–69. Cl. 260—33.8.

Bingley, George W., and A. C. Dowd, to Massey-Ferugson Inc. Backhoe control console. 860,012, 3–18–69. Cl. 37—118.

Bleasdale, James L., to E. I. du Pont de Nemours and Co. Process for preparing polycarbonamide. 861,009, 4–1–69. Cl. 260—78.

Bloom, Melvin. S.: *See*—
Newland, Gordon C., and Bloom. 859,007.
Newland, Gordon C., and Bloom. 869,006.

Bloom, Melvin S., J. A. Hill, and W. H. Moore. Polymer compositions containing fluorescent brightening agents. 861,024, 4–8–69. Cl. 252—301.2.

Bly, Donald D., to E. I. du Pont de Nemours and Co. Process control for polycarbonamide melt polymerizations. 858,010, 1–7–69, Cl. 260—78.

Boardman, Harold. Coated polymers. 858,017, 1–21–69. Cl. 101—453.

Boielle, John H. Colour proofing process. 861,033, 4–15–69. Cl. 96—29.

Bradbury, Richard L., to E. I. du Pont de Nemours and Co. Suede fabric and method of making same. 858,004, 1–7–69. Cl. 161—64.

Brannock, Kent C., H. E. Davis, and E. U. Elam. Process for preparing substituted hexenal acetals and substituted 1,4- and 1,5-hexadienyl ethers. 861,019, 4–8–69. Cl. 260—614.

Bristol, John E. Preparation of hydrolyzed copolymers in the solid form. 868,012, 11–18–69. Cl. 260—87.3.

British Nylon Spinners Ltd.: *See*—
Jones, Geoffrey H. 867,024.

Brooks, Joseph A., to E. I. du Pont de Nemours and Co. Aqueous dye bath containing a high molecular weight quaternary ammonium salt and an ethylene oxide condensate of 8 to 12 carbon aliphatic alcohol and nylon dyeing and electrostatic charge reduction therewith. 859,004, 2–4–69. Cl. 8—17.

Brown, Martin D., to E. I. du Pont de Nemours and Co. Apparatus and process for extruding elastomeric material. 869,007, 12–16–69, Cl. 264—174.

Brown, Martin L., and W. J. Remington, to E. I. du Pont de Nemours and Co. Polyurea bonded sand foundry cores. 864,002, 7–15–69. Cl. 260—37.

Brunner, Gordon F., to The Proctor & Gamble Co. Food products having improved flavor. 860,011, 3–18–69. Cl. 99—123.

Brunson, Marion O. Aqueous wax dispersions. 860,018, 3–25–69, Cl. 260—27.

Brunson, Marion O. Modified polyethylene. 861,041, 4–22–69. Cl. 260—29.6.

Brunson, Marion O. Emulsifiable polyethylene compositions prepared from low molecular weight polyethylene and unsaturated polycarboxylic compounds. 869,011, 12–16–69, Cl. 260—78.4.

Brunson, Marion O., and W. D. McGillen. Thermoplastic polymeric tear strips for packaging materials. 860,006, 3–18–69, Cl. 229—51.

Buckson, Gerald I., to Troxel Mfg. Co. Defect detector having rotating prism scanner having plurality of pairs of photocells with coloring and space filtering. 861,055, 4–29–69. Cl. 250—219.

Buckson, Gerald I., J. A. Masino, and S. V. Williams, to E. I. du Pont de Nemours and Co. Photoelectric scanner for detecting ridges and indentations in a yarn package. 861,053, 4–29–69. Cl. 250—219.

Buckson, Gerald I., J. A. Masino, and S. V. Williams, to E. I. du Pont de Nemours and Co. Apparatus for detecting discoloration in a cylindrical yarn package by observing changes in reflectivity on the ends of the package. 861,028, 4–15–69, Cl. 356—196.

Buckson, Gerald I., J. A. Masino, E. J. Sturdevant, and S. V. Williams, to E. I. du Pont de Nemours and Co. Radiation sensitive apparatus for detecting rotating yarn package defects. 861,056, 4–29–69. Cl. 250—219.

Bulgin, Richard F.: *See*—
Barnett, Anthony M., Bulgin, Smith, and Dicker. 867,011.

Bulgin, Richard F. Phosphate buffers in photographic elements. 864,024, 7–29–69. Cl. 96—61.

Burch, Wendell D. Removal of carbonaceous impurity from ammoniated phosphoric acid solutions. 866,034, 9–30–69. Cl. 71—34.

Burch, Wendell D., and J. T. Minor. Method for preparing stabilized suspensions of ammonium polyphosphate fertilizer. 866,019, 9–16–69. Cl. 71—29.

Buteux, Richard H. B.: *See*—
Barr, Dennis A., and Buteux. 862,001.

Butler, Robert W., to Hercules Inc. Protective coating composition. 861,008, 4–1–69. Cl. 106—171.

Caldwell, John R. Unsaturated, curable polyesters containing aromatic sulfonate salt groups. 862,017, 5–27–69. Cl. 260—49.

Caldwell, John R., and R. Gilkey. Substrates laminated with polyester melt adhesives derived in part from a 2,2,4,4-tetraalkyl-1,3-cyclobutanediol. 858,012, 1–7–69. Cl. 161—214.

Cameron, Duncan M., and S. Lynckyj. Fuel oils having improved viscosity and lubricating characteristics. 866,005, 9–2–69, Cl. 44—58.

Cameron, John L. Curtain coating method for packaging an article 858,024, 1–21–69. Cl. 264—90.

Campbell, Warren E. Process for preparing unsaturated carboxylic acids and aldehydes. 864,007, 7–15–69. Cl. 260—533.

Campbell, Warren E. Reactivation of oxide catalyst. 864,008, 7–15–69, Cl. 252—411.
Carter, Daniel E. Cannula coupler. 867,021, 10–28–69. Cl. 128—214.
Cash, George O., Jr. Process for forming alpha-olefin block copolymers. 866,006, 9–2–69. Cl. 260—878.
Cecchini, Rolando A., to E. I. du Pont de Nemours and Co. Method and apparatus for automatically controlling viscosity in a polymerization process. 861,005, 4–1–69. Cl. 137—92.
Chapman, Colquitt H.: *See*—
Martin, Emmett V., and Chapman. 862,015.
Christensen, Howard V., to Ford Motor Co. Laminated glass assembly with tapered inner layers. 861,037, 4–22–69. Cl. 350—319.
Church, Franklin W. Method of reducing noise and air pollution. 860,017, 3–25–69. Cl. 55—75.
Cobb, James S., Jr., to E. I. du Pont de Nemours and Co. Fabrication method. 866,021, 9–16–69. Cl. 76—107.
Cobb, Phara L., Jr. Method and apparatus for applying additives to cigarette filter tow. 867,001, 10–21–69. Cl. 156—356.
Cole, Paul M., to E. I. du Pont de Nemours and Co. Apparatus for deregistering crimps in a longitudinally moving tow. 861,030, 4–15–69. Cl. 19—65.
Colley, David R., and A. W. Etchells III, to E. I. du Pont de Nemours and Co. Process for transporting liquid dispersions. 863,009, 6–24–69. Cl. 103—136.
Collins, John F.: *See*—
Peters, Theodore J., and Collins. 860,021.
Collins, Muriel A.: *See*—
Peters, Theodore J., and Collins. 860,021.
Combs, Robert L.: *See*—
Gray, Theodore F., Jr., and Combs. 869,014.
Meyer, Max F., Jr., Combs, and Wooten. 869,015.
Combs, Robert L., and H. W. Coover, Jr. Method of producing a two-component flock product. 867,003, 10–21–69. Cl. 264—24.
Combs, Robert L., M. F. Meyer, Jr., and H. W. Coover, Jr. Heat-stable ultraviolet-unstable ethylene-carbon monoxide copolymers. 867,013, 10–28–69. Cl. 260—94.9.
Connolly, Lewis T., and E. D. Salesin. High contrast elements and film developers containing nitron and polyalkylene glycol. 867,009, 10–21–69. Cl. 96—66.
Conte, J. G.: *See*—
Sosis, Paul. 862,020.
Coover, Harry W., Jr.: *See*—
Combs, Robert L., and Coover. 867,003.
Combs, Robert L., Meyer, and Coover. 867,013.
Shields, Donald J., Guillet, and Coover. 866,013.
Craig, William D.: *See*—
Patterson, James W., and Craig. 861,036.
Crawford, David W., and L. M. Talbert, to E. I. du Pont de Nemours and Co. Strand combining means. 864,009, 7–15–69, Cl. 28—1.
Culhane, Morris B. Gap transfer of toned electrostatic image. 869,004, 12–16–69, Cl. 96—1.4.
Curtis, Larry G.: *See*—
Lowe, Jack W., Jr., Curtis, and Foulk. 866,029.
Curtis, Larry G., R. G. Foulk, G. R. Lappin, J. W. Lowe, Jr., and W. V. McConnell. Coating compositions and coated substrates. 866,030, 9–30–69. Cl. 117—333.
Daddis, George E., E. A. Ehlers, and L. S. Matioli. Enlargement print frame and mailer. 862,023, 5–27–69. Cl. 206—45.2.
Darms, Roland, to E. I. du Pont de Nemours and Co. Polyketone from dibenzo-para-dioxin and iso- or terephthaloyl halide. 869,003, 12–16–69, Cl. 260—47.
Davis, Herman E.: *See*—
Brannock, Kent C., Davis, and Elam. 861,019.
Elam, Edward U., and Davis, 866,003.
Davis, Robert B., and R. B. McFall. Method of making plastic book covers. 868,009, 11–18–69. Cl. 264—151.
Dickakian, Gazi B. M. Acidic resins derived from polymers or copolymers of conjugated diolefins. 861,054, 4–29–69. Cl. 260—78.5.
Dicker, Ilona R.: *See*—
Barnett, Anthony M., Bulgin, Smith, and Dicker. 867,011.
Dickert, James E. Method of making hot melt-coated substrates heat-sealable. 867,002, 10–21–69. Cl. 117—62.
Dodson, William C., Jr., to E. I. du Pont de Nemours and Co. Process and product of laminating with a latex and latex coagulant. 858,006, 1–7–69. Cl. 161—82.
Dougherty, Gerald, L. W. Hall, Jr., and J. A. Hedge. Hot melt adhesive. 866,026, 9–30–69. Cl. 260—27.
Douglas, Ted L.: *See*—
Eells, Rex, and Douglas. 858,015.
Eells, Rex, and Douglas. 859,008.
Dow Chemical Co., The: *See*—
Miller, Robert O., and Mattano. 862,014.
Roth, Harold H., and Kirk. 863,007.
Dowd, Allyn C.: *See*—
Bingley, George W., and Dowd. 860,012.
Draper, Willie E.: *See*—
Baxter, William F., Jr., and Draper. 869,022.
Duke, Roy B., Jr., and M. A. Perry, to Eastman Kodak Co. Esters and method of production. 861,001, 4–1–69. Cl. 260—345.8.
Dunn, Lloyd G., to Aluminum Co. of America. Container end having easy-opening means. 866,014, 9–16–69. Cl. 220—54.
Du Pont de Nemours, E. I., and Co.: *See*—
Allen, Robert L., Wenger, and Williston. 858,003.
Berkowitch, John. E. 863,008.
Bleasdale, James L. 861,009.
Bly, Donald D. 858,010.
Bradbury, Richard L. 858,004.
Brooks, Joseph A. 859,004.
Brown, Martin L. 869,007.
Brown, Martin L., and Remington. 864,002.
Buckson, Gerald I., Masino, Sturdevant, and Williams. 861,056.
Buckson, Gerald I., Masino, and Williams. 861,028.
Buckson, Gerald I., Masino, and Williams. 861,053.
Cecchini, Rolando A. 861,005.
Cobb, James S., Jr. 866,021.
Cole, Paul M. 861,030.
Colley, David R., and Etchells. 863,009.
Crawford, David W., and Talbert. 864,009.
Darms, Roland. 869,003.
Dodson, William C., Jr. 858,006.
Ella, Raymond J., and Farmer. 863,003.
Felton, Herman R. 866,009.
Fridrichsen, Anton F. 860,016.
Gaither, Paul H., IV, and Mellinger. 861,017.
Heitz, Ronald G., and Hutchens. 862,010.
Huffman, Allan M. 867,017.
Irwin, Robert S. 860,008.
Jenkins, Francis E. 861,008.
Leana, Anthony R. 858,020.
Logthetis, Anestis L. 861,031.
Martin, Kenneth V. 861,052.
McKee, Paul W., Jr. 858,019.
Meyer, Gerhardt E., and Moore. 861,059.
Michel, Rudolph H. 858,008.
Morgan, Paul W. 859,002.
Patterson, Hugh T., and Segrave. 861,045.
Peters, Robert J. 861,002.
Phillips, Howard E. 858,002.
Reinhardt, Heinz F. 861,013.
Robbins, Gordon B. 861,051.
Romano, Albert P. 860,007.
Schmitt, Joseph J., Jr. 867,018.
Slade, Arthur L. 864,001.
Smyser, Ronald P. 858,001.
Vermont, George B. 858,023.
Whelan, James E. 867,014.
Wilson, Donald R. 866,027.
Zimmt, Werner S. 866,025.
Eastman Kodak Co.: *See*—
Agett, Albert H., and Gallagher. 861,014.
Duke, Roy B., Jr., and Perry, 861,001.
Gonzalez, Donald E. 861,042.
Hagemeyer, Hugh J., Jr., and Johnson. 868,003.
Hawkins, Roy E., and Ritchie. 860,013.
Long, Warner D. 859,009.
Newland, Gordon C. 861,015.
Nielsen, Asgar T. 869,002.
Sutherland, Raymond E. 866,001.
Young, Howard S., and McDaniel. 863,002.
Eells, Rex, and T. L. Douglas. Package and process using hot melt curtain coating of articles on folded substrate. 858,015, 1–21–69. Cl. 99—174.
Eells, Rex, and T. L. Douglas. Package and process using hot melt curtain coating on substrate attached to preformed lid. 859,008, 2–4–69. Cl. 99—174.
Ehlers, Edward A.: *See*—
Daddis, George E., Ehlers, and Matioli. 862,023.
Ekiner, Okan, and E. P. Goffinet, Jr. Process for measuring polymer content 861,025, 4–15–69. Cl. 260—80.78.
Elam, Edward U., and S. J. Rush. Polyesters of alkyl-substituted 1,3-cycobutanedimethanols. 858,007, 1–7–69. Cl. 260—75.
Elam, Edward U., and H. E. Davis. 2,2,4,4-tetraalkyl-3-thioxothiobutyramides and derivatives thereof. 866,003, 9–2–69, Cl. 260—551.
Ella, Raymond J., and J. O. Farmer, to E. I. du Pont de Nemours and Co. Knit fabric. 863,003, 6–24–69. Cl. 66—169.
Engleman, John B. Solid state, multipoint, temperature controller. 859,006, 2–4–69. Cl. 219—501.
Erb, Louis F., to Hercules, Inc. Control of processing problems related to additives by composite extrusion. 861,034, 4–15–69, Cl. 264—171.
Etchells, Arthur W., III: *See*—
Colley, David R., and Etchells 863,009.
Etienne, Yves, and R. Soulas. Method of depolymerizing poly(ethylene terephthalate). 869,017, 12–30–69, Cl. 260—2.8.
Evans, Ronald H., and D. F. Myers. Recovery of volatile liquid from underground storage. 866,024, 9–16–69. Cl. 62—54.
FMC Corp.: *See*—
Montgomery, Ronald E., and Incho. 866,007.
Fain, Paul K., Jr. Polyolefin strapping. 869,001, 12–16–69, Cl. 161—118.
Fain, Pauk K., Jr., and J. F. Isenberg. Polyolefin strapping. 867,004, 10–21–69. Cl. 260—32.6.
Farmer, James O.: *See*—
Ella, Raymond J., and Farmer. 863,003.
Feasey, Ronald G., to Imperial Chemical Industries Ltd. Thermosetting plastics. 864,019, 7–29–69. Cl. 260—49.
Feild, George B., to Hercules Inc. Foam compositions for gaskets. 861,039, 4–22–69. Cl. 260—2.5.

Felton, Herman R., to E. I. du Pont de Nemours and Co. Bubble free flowmeter. 866,009, 9–2–69. Cl. 73—209.
Fintel, William A. Valve for producing pressurized fluid pulses. 868,007, 11–18–69. Cl. 137—624.13.
Fitzgerald, John W.: *See*—
Tardif, Richard E., Fitzgerald, and Le Blanc. 866,017.
Fogiel, Adolf W., to E. I. du Pont de Nemours and Co. Process for preparing flexible polyurethane foams. 858,022, 1–21–69. Cl. 260—2.5.
Ford Motor Co.: *See*—
Christensen, Howard V. 861,037.
General, Norman T. 863,004.
Johns, Robert C. 866,031.
Moroney, William N. 861,060.
Patterson, James W., and Craig. 861,036.
Pietila, John M. 866,032.
Woolgar, Ronald J. H. 866,016.
Foster, Lloyd P. Cyclohexane-1,4-dicarboxylate esters as plasticizers. 864,003, 7–15–69. Cl. 260—31.8.
Foster, Lloyd P. Triesters and their use as plasticizers 862,022, 5–27–69. Cl. 260—31.6.
Foulk, Roy G.: *See*—
Curtis, Larry G., Foulk, Lappin, Lowe, and McConnell. 866,030.
Lowe, Jack W., Jr., Curtis, and Foulk. 866,029.
Fowler, William F., Jr.: *See*—
Laakso, Thomas M., and Fowler. 863,012.
Frank, Lee F. Double hardening of epoxy resins. 869,009, 12–16–69, Cl. 264—286.
Fridrichsen, Anton F., to E. I. du Pont de Nemours and Co. Conveyor belt fabric made from poly(m-phenyleneisophthalamide). 860,016, 3–25–69. Cl. 117—138.8.
Fritz, Theodore C. Tow-treating process. 861,002, 4–1–69. Cl. 264—290.
Gaither, Paul H., IV, and C. A. Mellinger, Jr., to E. I. du Pont de Nemours and Co. Temperature deviation indicator for plural capacitive temperature sensors. 861,017, 4–8–69. Cl. 340—227.
Gallagher Paul: *See*—
Agett, Albert H., and Gallagher. 861,014.
General, Norman T., to Ford Motor Co. Torque converter transmission with a by-pass clutch. 868,004, 6–24–69. Cl. 74—688.
Gessler, Albert M., and J. Rehner, Jr. Chemically modified carbon black and rubbery compositions containing same. 860,001, 3–18–69. Cl. 260—41.5.
Gibson, Charles L., and W. T. Tucker. Process for the preparation of hexamethylphosphortriamide. 861,049, 4–29–69. Cl. 260—551.
Gilkey, Russell: *See*—
Caldwell, John R., and Gilkey. 858,012.
Martin, James C., Rush, and Gilkey. 866,028.
Goffnet, Edward P., Jr.: *See*—
Ekiner, Okan, and Goffnet. 861,025.
Gonzalez, Donald E., to Eastman Kodak Co. Curtain coating process. 861,042, 4–22–69. Cl. 99—169.
Gonzalez, Donald E., and D. A. Tenquist. Cellulose ester curtain coating thermoplastic material and process for employing the same. 859,012, 2–4–69. Cl. 106—180.
Gordy, Travis L., and L. G. Becraft. Method of encapsulating articles using a curtain coater. 866,083, 9–30–69. Cl. 117—105.3.
Gott, Paul G.: *See*—
Martin, James C., and Gott. 861,004.
Graham, James L. Wide exposure latitude photographic elements. 860,004, 3–18–69. Cl. 96—74.
Gray, Theodore F., Jr., and R. L. Combs. Apparatus and improved method for continuously determining apparent melt viscosity of a thermoplastic polymer. 869,014, 12–16–69, Cl. 73—56.
Gross, George P., W. A. Herbst, and A. Lagani, Jr. Microencapsulated fire extinguishing agent. 861,043, 4–22–69. Cl. 169—4.
Guillet, James E.: *See*—
Shields, Donald J., Guillet, and Coover. 866,013.
Hagemeyer, Hugh J., Jr., and J. M. Johnson, to Eastman Kodak Co. Liquid polyester composition and method of preparation. 868,003, 11–18–69. Cl. 260—31.6.
Hall, Homer J.: *See*—
Long, Robert B., Solomon, and Hall. 861,027.
Hall, John N., to Hercules Inc. Laminate of oriented films of olefin polymers containing azido bridging agents. 861,020, 4–8–69. Cl. 161—252.
Hall, Lewis W., Jr.: *See*—
Dougherty, Gerald, Hall, and Hedge. 866,026.
Hansen, Gunnar W. Air cleaner fuel vapor aspirator. 861,011, 4–1–69. Cl. 55—261.
Hargis, Charles W. Synthesis of ether-substituted aromatic nitriles. 861,028, 4–8–69. Cl. 260—465.
Hargis, Charles W., J. E. Williams, and H. S. Young. Oxidative conversion of alicyclic alcohols to ketones. 861,050, 4–29–69, Cl. 260—586.
Harper, John S., H. H. Herd, and R. V. Pole, to International Business Machines Corp. Method of making white light holograms. 861,026, 4–15–69. Cl. 96—27.
Harris, David A.: *See*—
Koronka, Paul, and Harris. 862,011.
Harris, Raymond C. Monoazo compounds and cations thereof. 869,005, 12–16–69, Cl. 260—152.
Hatfield, John R., W. E. Morrell, and K. E. Morrison. High removal additive type tobacco smoke filter. 863,005, 6–24–69. Cl. 131—266.
Hatfield, John R., Jr., and C. E. Sandidge. Method for forming cigarette filter rods. 860,010, 3–18–69. Cl. 156—166.
Hatfield, John R., Jr., and K. E. Morrison. Additive containing tobacco smoke filter. 859,005, 2–4–69. Cl. 131—266.6.
Hauffaker, James E. Ornamental fabric having a transparent lenticulated coating and method of making. 867,008, 10–21–69, Cl. 161—2.
Hawkins, Roy E., and T. B. Ritchie, to Eastman Kodak Co. Application of additives as cores in cigarette filters. 860,013, 3–25–69. Cl. 156—180.
Hedge, John A.: *See*—
Dougherty, Gerald, Hall, and Hedge. 866,026.
Heitz, Ronald G., and G. H. Hutchens, to E. I. du Pont de Nemours and Co. Spinneret capillary inspection apparatus. 862,010, 5–6–69. Cl. 250—219.
Hemminger, Charles E., and S. Stahl. Process for making liquid fuels from coal. 861,044, 4–22–69. Cl. 208—10.
Henry, James W. Resealable transparent packages having covers formed by deep drawing cold polyester sheeting. 869,023, 12–30–69, Cl. 206—45.34.
Herbst, Walter A.: *See*—
Gross, George P., Herbst, and Lagani. 861,043.
Hercules Inc.: *See*—
Aiken, Howard A., and Oppenlander. 860,003.
Arots, Joseph B., and Mirolli. 866,011.
Butler, Robert W. 861,008.
Erb, Louis F. 861,034.
Feild, George B. 861,039.
Hall, John N. 861,020.
Hock, Charles W. 866,008.
Johnstone, Paul L., and Wagner. 868,002.
Klug, Eugene D. 861,007.
McFarren, Gerald A. 860,002.
Naudain, Edward A. 866,002.
Wagner, Richard L. 862,018.
Willis, William D. 869,010.
Herd, Harold H.: *See*—
Harper, John S., Herd, and Pole. 861,026.
Herz, Arthur. Selenium sensitizers for silver halide emulsions. 864,011, 7–15–69. Cl. 96—108.
Heseltine, Donald W.: *See*—
Webster, Frank G., and Heseltine. 867,016.
Hill, James A.: *See*—
Bloom, Melvin S., Hill, and Moore. 861,024.
Hillson, Peter J. Process for preparing photographic images with thallium halide emulsions. 869,013, 12–16–69. Cl. 96—48.
Hock, Charles W., to Hercules Inc. Oleaginous gels from polyolefin microparticles. 866,008, 9–2–69. Cl. 252—59.
Hoyle, Wallis I.: *See*—
Titchenal, Oliver R., Bader, and Hoyle. 861,046.
Huffman, Allan M., to E. I. du Pont de Nemours and Co. Process for manufacture of leuco 1,4,5,8-tetrahydroxyanthraquinone. 867,017, 10–28–69. Cl. 260—383.
Hull, David C. Wash oil. 862,006, 5–6–69. Cl. 252—162.
Humphreys, John H., Jr.: *See*—
Alpert, Edward D., Shaw, and Humphreys. 866,023.
Hutchens, George H.: *See*—
Heitz, Ronald G., and Hutchens. 862,010.
Hyche, Kenneth W. Heat sealable hot melt coating compositions. 858,016, 1–21–69. Cl. 260—28.5.
Ibrahim, Salim M. Covered elastic yarn and method of making same. 868,005, 11–18–69. Cl. 57—152.
Imperial Chemical Industries Ltd.: *See*—
Feasey, Ronald G. 864,019.
Jennings, Brian E., and McGowan. 860,023.
Koronka, Paul, and Harris. 862,011.
Morgans, David E. B. 862,003.
Incho, Harry H.: *See*—
Montgomery, Ronald E., and Incho. 866,007.
Montgomery, Ronald E., and Incho. 869,008.
Montgomery, Ronald E., and Incho. 869,018.
International Business Machines Corp.: *See*—
Harper, John S., Herd, and Pole. 861,026.
Middelhoek, Simon. 862,002.
Irick, Gether, Jr. 1-(α,α-disubstituted methylene)-3-indanones and -indanes from indan-1,3-diones. 862,005, 5–6–69. Cl. 260—240.
Irwin, Robert S., to E. I. du Pont de Nemours and Co. Polymer prepared by the hydrolysis of aromatic polyimides and conversion of the resulting polyamide-acid linkages to form aroyloxypropane-sulfonate dye sites. 860,008, 3–18–69, Cl. 8—55.
Isenberg, John F.: *See*—
Fain, Paul K., Jr., and Isenberg. 867,004.
Johnson, William L., and Isenberg. 866,015.
Jackson, Winston J., Jr., and J. W. Thompson. Polycarbonate ester lubricants. 858,014, 1–21–69. Cl. 260—463.
Jacobson, Norman. Multifunctional polymeric additive for mineral oils. 858,018, 1–21–69. Cl. 252—51.5.
James, Thomas H.: *See*—
Shuman, David C., and James. 869,012.
Jarrett, Charles A.: *See*—
Yantz, Robert C., and Jarrett. 868,011.
Jaskowsky, Jorg. Photocatalytographic process of producing image structures and image reliefs. 861,021, 4–8–69. Cl. 96—48.
Jenkins, Francis E., to E. I. du Pont de Nemours and Co. Process for preparing polymer particles of 2–10 microns. 861,003, 4–1–69. Cl. 260—89.5.

Jennings, Brian E., and J. C. McGowan, to Imperial Chemical Industries, Ltd. Oxymethylene polymers. 860,023, 3–25–69, Cl. 260—53.

Johns, Robert C., to Ford Motor Co. Process for forming passages in threaded members. 866,031, 9–30–69. Cl. 29—25.12.

Johnson, Jon M.: *See*—
Hagemeyer, Hugh J., Jr., and Johnson. 868,003.

Johnson, William L., and J. F. Isenberg. Method for weaving fabrics from synthetic yarn. 866,015, 9–16–69. Cl. 28—72.

Johnson, William L., and B. T. Pardue. Method of molding articles using molding compositions containing dispersed particulate additives. 867,022, 10–28–69. Cl. 264—328.

Johnstone, Paul L., and R. L. Wagner, to Hercules Inc. Lithographic plate. 868,002, 11–18–69. Cl. 101—455.

Jones, Geoffrey H., to British Nylon Spinners Ltd. Synthetic filaments. 867,024, 10–28–69. Cl. 161—177.

Kalenda, Norman W. Sensitizers for fine grain photographic silver halide emulsions, e.g., a Lippmann type emulsion. 860,024, 3–25–69. Cl. 96—107.

Kalenda, Norman W., and D. J. Beavers. Hexahydro-4,6-diimino-s-triazine-2-thione derivatives as antifoggants for photographic materials. 861,048, 4–22–69. Cl. 96—109.

Kalenda, Norman W., and D. J. Beavers. Derivatives of benzo[f]quinazoline as antifoggants for photographic materials. 862,021, 5–27–69. Cl. 96—109.

Kalenda, Norman W., and D. J. Beavers. Silver halide emulsions containing disulfides as fog inhibitors. 866,036, 9–30–69, Cl. 96—109.

Kaul, Oliver W. Method of splicing sensitive photographic materials. 867,006, 10–21–69. Cl. 156—157.

Kempen, Simone J.: *See*—
Philipot, Georges A., and Kempen. 861,022.

Kenaga, Duane L. Aziridinyl phosphine oxide or sulfide-sulfur dioxide treatment. 860,015, 3–25–69. Cl. 117—62.1.

Kennard, Kenneth C., and R. F. Porter. Container for photographic processing liquids. 864,012, 7–15–69. Cl. 96—76.

Kerns, James A. Oriented films and fibers of asphalt and a propylene polymer. 858,021, 1–21–69. Cl. 260—28.5.

Kibler, Charles J.: *See*—
Smith, James G., Kibler, and Schulken. 862,016.
Strickland, Thomas H., and Kibler. 867,020.

Kirby, Frederic B. Preparation of phthalic acids by slow oxidation. 861,029, 4–15–69. Cl. 260—524.

Kirk, Roy C.: *See*—
Roth, Harold H., and Kirk. 863,007.

Klug, Eugene D., to Hercules Inc. Protective coating composition. 861,007, 4–1–69. Cl. 106—171.

Kociscin, Joseph J. Electric arc furnace operations. 859,001, 2–4–69, Cl. 75—12.

Koronka, Paul, and D. A. Harris, to Imperial Chemical Industries, Ltd. Agricultural device. 862,011, 5–6–69. Cl. 111—88.

Koslowski, Manfred G. Process and apparatus for unwinding yarn from a package. 869,019, 12–30–69, Cl. 242—54.

Kuhn, Stephen J. Aziridinium salts of 2-nitro-1,3-indandiones. 861,018, 4–8–69. Cl. 260—239.

Laakso, Thomas M., and W. F. Fowler, Jr. Polyesters and polyamides prepared from diester or diamine derivatives of bisphenols. 863,012, 6–24–69. Cl. 96—1.5.

Lagani, Anthony, Jr.: *See*—
Gross, George P., Herbst, and Lagani. 861,043.

Lappin, Gerald R.: *See*—
Curtis, Larry G., Foulk, Lappin, Lowe, and McConnell. 866,030.
Newland, Gordon C., Lappin, and Tamblyn. 863,001.

Lappin, Gerald R., J. C. Martin, and R. H. Meen. Basic-dyeable polyesters containing an alkali metal salt of a sulfodiphenyl ether dicarboxylic acid or its ester. 868,010, 11–18–69, Cl. 260—49.

Larkins, Thomas H., Jr., H. S. Young, and G. A. Akin. Process for producing manganese dioxide. 863,010, 6–24–69. Cl. 23—145.

Leana, Anthony R., to E. I. du Pont de Nemours and Co. Tow dryer control apparatus. 858,020, 1–21–69. Cl. 250—227.

Le Blanc, Roy A.: *See*—
Tardif, Richard E., Fitzgerald, and Le Blanc. 866,017.

Lee, William E. Photographic developer and process. 862,019, 5–27–69. Cl. 96—66.

Leesona Corp.: *See*—
Walden, Richard I. 868,004.

Leonard, Don R.: *See*—
Scoggins, Bobby N., and Leonard. 864,016.

Leonard, Ray E. Polymeric tobacco smoke filter material for the selective removal of acrolein. 864,014, 7–29–69. Cl. 131—266.

Lin, Hung C. Semiconductor integrated circuit. 861,057, 4–29–69. Cl. 317—235.

Logthetis, Anestis L., to E. I. du Pont de Nemours and Co. Ethylenically unsaturated hydrocarbon polymers treated with boron comopunds. 861,031, 4–15–69. Cl. 260—80.78.

Long, Robert B., H. J. Solomon, and H. J. Hall. Contacting oil shale or shale oil with a solvent to produce material suitable for hydrofining. 861,027, 4–15–69. Cl. 208—11.

Long, Warner D., to Eastman Kodak Co. Non-fibrillating polyolefin article and method of making. 859,009, 2–4–69. Cl. 24—16.

Lorette, Nicholas B.: *See*—
Sablatura, Edward F., and Lorette. 864,017.

Lowe, Jack W., Jr.: *See*—
Curtis, Larry G., Foulk, Lappin, Lowe, and McConnell. 866,030.

Lowe, Jack W., Jr., L. G. Curtis, and R. G. Foulk. Polymeric coating composition and coated substrates. 866,029, 9–30–69, Cl. 117—64.

Lynckyj, Stephan: *See*—
Cameron, Duncan M., and Lynckyj. 866,005.

Martin, Emmett V., and C. H. Chapman. Process for manufacturing spandex type yarn. 862,015, 5–27–69. Cl. 264—205.

Martin, James C.: *See*—
Lappin, Gerald R., Martin, and Meen. 868,010.

Martin, James C., and P. G. Gott. Process for preparing acylals of dialkyketenes. 861,004, 4–1–69, Cl. 260—340.2.

Martin, James C., S. J. Rush, and R. Gilkey. Linear polymers of 2,2-dimethyl-5-aminopentanol-1. 866,028, 9–30–69. Cl. 260—77.5.

Martin, Kenneth V., to E. I. du Pont de Nemours and Co. Fabric surfaced hydrocarbon rubber laminate and process of preparing same. 861,052, 4–29–69. Cl. 161—96.

Masino, John A.: *See*—
Buckson, Gerald I., Masino, and Williams. 861,028.
Buckson, Gerald I., Masino, and Williams. 861,053.
Buckson, Gerald I., Masino, Sturdevant, and Williams. 861,056.

Massey-Ferguson Inc.: *See*—
Bingley, George W., and Dowd. 860,012.
Richey, Clarence B. 860,022.

Mather, Charles B.: *See*—
Sprangler, Gordon W., Mather, and McSpadden. 864,006.

Matioli, Leonard S.: *See*—
Daddis, George E., Ehlers, and Matioli. 862,023.

Mattano, Leonard A.: *See*—
Miller, Robert O., and Mattano. 862,014.

Maxwell, Donald A. Thermal reflow acrylic lacquers, methods of using the same, and metals coated therewith. 858,005, 1–7–69, Cl. 260—17.

Maxwell, Donald A., and B. N. Scoggins. Process of sweetening and stabilizing sulfate grade turpentine. 861,058, 4–29–69. Cl. 260—675.5.

May, Douglas C.: *See*—
Barkey, Kenneth T., and May. 864,018.

McConnell, Richard L. Granular polyolefins. 866,004, 9–2–69. Cl. 260—88.2.

McConnell, Wayne V.: *See*—
Curtis, Larry G., Foulk, Lappin, Lowe, and McConnell. 866,030.

McDaniel, Edgar L.: *See*—
Young, Howard S., and McDaniel. 863,002.

McDaniel, Edgar L., and H. S. Young. Synthesis of acrylonitrile from propylene, ammonia and oxygen. 860,014, 3–25–69, Cl. 252—437.

McFall, Robert B.: *See*—
Davis, Robert B., and McFall. 868,009.

McFarren, Gerald A., to Hercules Inc. Process for dry spinning poly(4-methyl)-1-pentene. 860,002, 3–18–69. Cl. 264—210.

McGillen, William D.: *See*—
Brunson, Marion O., and McGillen. 860,006.

McGowan, John C.: *See*—
Jennings, Brian E., and McGowan. 860,023.

McKee, Paul W., Jr., to E. I. du Pont de Nemours and Co. Gage for indicating the deviation of a hole from a perpendicular. 858,019, 1–21–69. Cl. 33—180.

McSpadden, William M., Jr.: *See*—
Sprangler, Gordon W., Mather, and McSpadden. 864,006.

McSpadden, William M., Jr., and F. W. Voigt, Jr. Method and apparatus for continuously producing spinning dopes of spandex polymers. 864,005, 7–15–69. Cl. 260—77.5.

Meen, Ronald H.: *See*—
Lappin, Gerald R., Martin, and Meen. 868,010.

Mellinger, Chester A., Jr.: *See*—
Gaither, Paul H., IV, and Mellinger. 861,017.

Mendola, Philip. Fastener for printed circuit boards. 861,012, 4–1–69, Cl. 339—17.

Meyer, Gerhardt E., and C. B. Moore, to E. I. du Pont de Nemours and Co. Apparatus for analyzing uniformity of sheet-like material. 861,059, 4–29–69. Cl. 250—219.

Meyer, Max F., Jr.: *See*—
Combs, Robert L., Meyer, and Coover. 867,013.

Meyer, Max F., Jr., R. L. Combs, and W. C. Wooten, Jr. Stable solutions of polyesters of terephthalic acid and 2,2,4,4-tetramethyl-1,3-cyclobutanediol (high trans content). 869,015, 12–16–69, Cl. 260—33.8.

Michel, Rudolph H., to E. I. du Pont de Nemours and Co. Poly[4-(4'-phenoxy)-benzamide] and solutions, and shaped article made therefrom. 858,008, 1–7–69. Cl. 260—30.3.

Middelhoek, Simon, to International Business Machines Corp. Nondestructive-readout operation of magnetic film memory devices. 862,002, 5–6–69. Cl. 340—174.

Miller, Howard A. Process of reclaiming used developer compositions. 864,021, 7–29–69. Cl. 252—62.1.

Miller, Robert O., and L. A. Mattano, to The Dow Chemical Co. Penolsulfonates as a filler in anionic detergent bars. 862,014. 5–27–69. Cl. 252—121.

Miller, Sidney B., Jr.: *See*—
Werts, Arthur P., and Miller. 864,010.

Minor, John T.: *See*—
Burch, Wendell D., and Minor. 866,019.

Mirolli, Joseph E.: *See*—
Arots, Joseph B., and Mirolli. 866,011.

Mitchell, James W., Jr., and B. T. Bajorek. Method and electrode for welding battery intercell connectors. 864,020, 7–29–69, Cl. 219—91.
Montgomery, Ronald E. and H,. H. Incho, to FMC Corp. Insecticides and synergists. 866,077, 9–2–69. Cl. 424—214.
Montgomery, Ronald E., and H. H. Incho. Alken-ω-ynyl phosphinate synergists for cyclopropane-carboxylate insecticides. 869,008, 12–16–69, Cl. 424—219.
Montgomery, Ronald E., and H. H. Incho. Insecticides and synergists. 869,018, 12–30–69, Cl. 424—219.
Moore, Charles B.: *See*—
Meyer, Gerhardt E., and Moore. 861,059.
Moore, William H.: *See*—
Newland, Gordon C., and Moore. 861,038.
Morgan, Paul W., to E. I. du Pont de Nemours and Co. Polyesters and polycarbonates prepared from cyano substituted bisphenols. 859,002, 2–4–69. Cl. 260—47.
Morgans, David E. B., to Imperial Chemical Industries, Ltd. Shaped articles of fluorine-containing polymers filled with carbonaceous material. 862,003, 5–6–69. Cl. 117—46.
Moroney, William N., to Ford Motor Co. Sequential photometer for measuring output of a vehicle mounted lamp. 861,060, 4–29–69. Cl. 356—121.
Morrell, William E.: *See*—
Hatfield, John R. Morrell, and Morrison. 863,005.
Morrison, Kyle E., and Morrell. 860,009.
Morrison, Kyle E.: *See*—
Hatfield, John R. Morrell, and Morrison. 863,005.
Hatfield, John R., Jr., and Morrison 859,005.
Morrison, Kyle E., and W. E. Morrell. Electrostatic process and apparatus for applying materials to tobacco smoke filter tow. 860,009, 3–18–69. Cl. 117—17.
Mullins, Otto P.: *See*—
Whitaker, Andrew W., and Mullins. 862,004.
Myers, David F.: *See*—
Evans, Ronald H., and Myers. 866,024.
Naudain, Edward A., to Hercules Inc. Polyethylene phonograph record. 866,002, 9–2–69. Cl. 260—41.
Newland, Gordon C.: *See*—
Tamblyn, John W., and Newland. 860,005.
Tambyln, John W., and Newland. 861,040.
Newland, Gordon C., to Eastman Kodak Co. Photosensitive materials and methods. 861,015, 4–8–69. Cl. 96—48.
Newland, Gordon C., and M. S. Bloom. Phototropic compositions (B). 859,007, 2–4–69. Cl. 106—276.
Newland, Gordon C., and W. H. Moore. Phototropic anthraquinone containing compositions. 861,038, 4–22–69. Cl. 252—300.
Newland, Gordon C., G. R. Lappin, and J. W. Tamblyn. Polyolefin compositions. 863,001, 6–24–69. Cl. 260—94.9.
Newland, Gordon C., and M. S. Bloom. Phototropic compositions. 869,006, 12–16–69, Cl. 106—176.
Nielsen, Asgar T., to Eastman Kodak Co. Character generator. 869,002, 12–16–69, Cl. 328—187.
Noddings, Charles R. Method for the production of aliphatic conjugated diolefins. 866,020, 9–16–69. Cl. 73—61.
Oppenlander, George C.: *See*—
Aiken, Howard A., and Oppenlander. 860,003.
Ownby, James C.: *See*—
Tholstrup, Clarence E., and Ownby. 858,009.
Palmer, Garland W., to Republic Steel Corp. Rotary head bar bender. 863,011, 6–24–69. Cl. 72—219.
Pardue, Ben T.: *See*—
Johnson, William L., and Pardue. 867,022.
Patterson, Hugh T., and H. J. E. Segrave, to E. I. du Pont de Nemours and Co. Textile lubricants for shaped condensation polymers. 861,045, 4–22–69. Cl. 8—115.5.
Patterson, James W., and W. D. Craig, to Ford Motor Co. Yarn tensioning device. 861,036, 4–15–69. Cl. 242—153.
Pearlman, Donald, and R. W. Stahr. Process for preparation of acicular-iron (III) oxide. 867,010, 10–21–69. Cl. 23—200.
Pearman, James R. G.: *See*—
Schulken, Roger M., Jr., and Pearman. 869,016.
Pearson, William M. Process for improving traction on surfaces. 866,018, 9–16–69. Cl. 94—22.
Perry, Milton A.: *See*—
Duke, Roy B., Jr., and Perry. 861,001.
Peters, Robert J., to E. I. du Pont de Nemours and Co. Apparatus and process for simultaneous crimping of two tows. 861,032, 4–15–69. Cl. 28—1.
Peters, Theodore J., and J. F. Collins, deceased (by M. A. Collins, executrix). Stabilized ester lubricants. 860,021, 3–25–69, Cl. 252—56.
Phillips, Howard E., to E. I. du Pont de Nemours and Co. Process for regenerating water-in-oil emulsions. 858,002, 1–7–69, Cl. 252—326.
Philpot, Georges A., and S. J. Kempen. Photosensitive composition containing heat-hardenable polymers. 861,022, 4–8–69. Cl. 96—28.
Pietila, John M., to Ford Motor Co. Hand implement with polymeric material coated surface. 866,032, 9–30–69. Cl. 228—57.
Pole, Robert V.: *See*—
Hrper, John S., Herd, and Pole. 861,026.
Poller, Dennis. Vinylidene chloride copolymer coated on a propylene based polymer sheet. 861,016, 4–8–69. Cl. 161—254.
Porter, Ralph F.: *See*—
Kennard, Kenneth C., and Porter. 864,012.
Procter & Gamble Co., The: *See*—
Brunner, Gordon F. 860,011.
Quinn, Earl. Curtain coating method for packaging an article. 859,010, 2–4–69. Cl. 264—90.
Rees, William W. Safelight tolerance of radiographic emulsions by addition of organic thioethers. 864,023, 7–29–69. Cl. 96—101.
Rehner, John, Jr.: *See*—
Gessler, Albert M., and Rehner. 860,001.
Reinhardt, Heinz F., to E. I. du Pont de Nemours and Co. Adamantane derivatives. 861,013, 4–8–69. Cl. 260—514.
Remington, Ward J.: *See*—
Brown, Martin L., and Remington. 864,002.
Republic Steel Corp.: *See*—
Palmer, Garland W. 863,011.
Richey, Clarence B., to Massey-Ferguson, Inc. Scarifying tooth attachment. 860,022, 3–25–69. Cl. 172—197.
Rigney, James A. Purification of neocarboxylic acids. 864,004, 7–15–69, Cl. 260—419.
Rissberger, Arthur C., Jr., and A. C. Runions. Package and method. 862,024, 5–27–69. Cl. 206—62.
Ritchie, Tom B.: *See*—
Hawkins, Roy E., and Ritchie. 860,013.
Robbins, Gordon B., to E. I. du Pont de Nemours and Co. Process for multicolored dyeing of polycarbonamide yarns and staple. 861,051, 4–29–69. Cl. 8—21.
Romano, Albert P., to E. I. du Pont de Nemours and Co. Safety inks. 860,007, 3–18–69. Cl. 106—22.
Roth, Harold H., and R. C. Kirk, to The Dow Chemical Co. Sulfuric acid-poly(vinylaromatic sulfonic acid) gel for dry charge lead-acid storage battery. 868,007, 6–24–69. Cl. 136—157.
Royer, Dennis J. Chromatographic separation. 866,012, 9–2–69, Cl. 55—67.
Runions, Adrian C.: *See*—
Rissberger, Arthur C., Jr., and Runions. 862,024.
Rush, Sarah J.: *See*—
Elam, Edward U., and Rush. 858,007.
Martin, James C., Rush, and Gilkey. 866,028.
Sablatura, Edward F., and N. B. Lorette. Process for the preparation of glycol diethers. 864,017, 7–29–69. Cl. 260—615.
Salesin, Eugene D.: *See*—
Connolly, Lewis T., and Salesin. 867,009.
Sandidge, Charles E.: *See*—
Hatfield, John R., Jr., and Sandidge. 860,010.
Schmitt, Joseph J., Jr., to E. I. du Pont de Nemours and Co. Process of treating indusrtial elastomeric waste. 867,018, 10–28–69, Cl. 210—49.
Schulken, Roger M., Jr.: *See*—
Smith, James G., Kibler, and Schulken. 862,016.
Schulken, Roger M., Jr., and J. R. G. Pearman. Spinning method for spandex type fibers. 869,016, 12–16–69, Cl. 264—204.
Schwan, Judith A. Chemical sensitization of unsensitized photographic silver halide. 866,010, 9–2–69. Cl. 96—108.
Scoggins, Bobby N.: *See*—
Maxwell, Donald A., and Scoggins. 861,058.
Scoggins, Bobby N., and D. R. Leonard. Method for reducing foaming tendencies of alkaline liquors in papermaking processes. 864,016, 7–29–69. Cl. 162—72.
Segrave, Harold J. E.: *See*—
Patterson, Hugh T., and Segrave. 861,045.
Sharman, Donald A. Process for making alkali cellulose. 867,023, 10–28–69. Cl. 162—90.
Shaw, Clifford M.: *See*—
Alpert, Edward D., Shaw, and Humphreys. 866,023.
Shields, Donald J., J. E. Guillet, and H. W. Coover, Jr. Crystalline polystyrene graft copolymers and their preparation. 866,013, 9–16–69. Cl. 260—878.
Shuman, David C., and T. H. James. Physical development systems. 869,012, 12–16–69, Cl. 96—50.
Shutack, John B. Personal dust sampler holder. 868,006, 11–18–69, Cl. 55—337.
Slade, Arthur L., to E. I. du Pont de Nemours and Co. Low temperature electrocoating process. 864,001, 7–15–69. Cl. 204—181.
Sloan, Cephas H.: *See*—
Touey, George P., and Sloan. 859,008.
Touey, George P., and Sloan. 859,011.
Touey, George P., and Sloan. 861,035.
Touey, George P., and Sloan. 863,006.
Smith, James G., C. J. Kibler, and R. M. Schulken, Jr. Method of preventing rearranegment of block copolyesters. 862,-016, 5–27–69. Cl. 260—75.
Smith, Malcolm: *See*—
Dicker, Ilona R., Barnett, Bulgin, and Smith. 867,011.
Smith, William F.: *See*—
Beavers, Dorothy J., and Smith. 864,022.
Smith, William F., and D. J. Beavers. Photographic materials stabilized with benzene seleninic acid and tetraazaindene antifoggants. 861,047, 4–22–69. Cl. 96—109.
Smyser, Ronald P., to E. I. du Pont de Nemours and Co. Bonded non-woven fabric. 858,001, 1–7–69. Cl. 161—170.
Solomon, Herman J.: *See*—
Long, Robert B., Solomon, and Hall. 861,027.
Sosis, Paul, and J. G. Conte. Detergent composition and method of using the same. 862,020, 5–27–69. Cl. 252—161.
Soulas, Robert: *See*—
Etienne, Yves, and Soulas. 869,017.
South, Joe E.: *See*—
Woodward, Robert N., and South. 867,012.

Spangler, Gordon W., C. B. Mather, and W. M. McSpadden, Jr. Polymerization reactor for spandex polymers. 864,006, 7–15–69, Cl. 23—285.
Stahl, Seymour: *See*—
Hemminger, Charles E., and Stahl. 861,044.
Stahr, Richard W.: *See*—
Pearlman, Donald, and Stahr. 867,010.
Stoneback, David N. Magnetohydrodynamic power generation system. 858,013, 1–21–69. Cl. 310—11.
Stranch, James G., and B. D. Anderson. Multicolor coating composition. 861,010, 4–1–69. Cl. 260—17.
Strickland, Thomas H., and C. J. Kibler. Fluidized polymerization of polymers using apparatus having conical internal surface. 867,020, 10–28–69. Cl 260—75.
Sturdevant, Eugene J.: *See*—
Buckson, Gerald I., Masino, Sturdevant, and Williams. 861,056.
Sutherland, Raymond E., to Eastman Kodak Co. Method for coating selected portions of an article with a plastic coating material. 866,001, 9–2–69. Cl. 117—21.
Sutherland, Raymond E. Process for plating plastics. 869,021, 12–30–69, Cl. 117—71.
Taber, Robert C. Reversal system containing a pyridylidene rhodanine dye. 867,019, 10–28–69. Cl. 96—59.
Talbert, Larry M.: *See*—
Crawford, David W., and Talbert. 864,009.
Tamblyn, John W.: *See*—
Newland, Gordon C., Lappin, and Tamblyn. 863,001.
Tamblyn, John W., and G. C. Newland. Purification of organic chemicals by selective exudation from solid supersaturated solution in another organic material. 860,005, 3–18–69, Cl. 260—94.9.
Tamblyn, John W., and G. C. Newland. Synergistic stabilizers for polyolefins. 861,040, 4–22–69. Cl. 260—886.
Tardif, Richard E., J. W. Fitzgerald, and R. A. Le Blanc. Use of in-line mixer to uniformly disperse bubbles throughout molten polyester prepolymer. 866,017, 9–16–69. Cl. 260—2.5.
Tenquist, David A.: *See*—
Gonzalez, Donald E., and Tenquist. 859,012.
Tholstrup, Clarence E. Substituted thiodiacyl hydrazides. 861,006, 4–1–69. Cl. 260—45.8.
Tholstrup, Clarence E., and J. C. Ownby. Thermoplastic compositions stabilized against copper effect. 858,009, 1–7–69. Cl. 260—897.
Thompson, John W.: *See*—
Jackson, Winston J., Jr., and Thompson. 858,014.
Titchenal, Oliver R., J. J. Bader, and W. I. Hoyle. Master shipping and storage container for prepacked meat products. 861,046, 4–22–69. Cl. 99—174.
Tor, Sadun S. Preparation of metal composites having an encapsulated inner layer and composite metals produced thereby. 860,019, 3–25–69. Cl. 29—194.
Torok, Theodore E.: *See*—
Avila, Arthur J., and Torok. 868,001.
Touey, George P., and C. H. Sloan. High efficiency, additive-type tobacco smoke filter. 863,006, 6–24–69. Cl. 131—266.
Touey, George P., and C. H. Sloan. Plasticized tobacco smoke filter. 859,008, 2–4–69. Cl. 131—267.
Touey, George P., and C. H. Sloan. Plasticized tobacco smoke filter. 859,011, 2–4–69. Cl. 131—267.
Touey, George P., and C. H. Sloan. Plasticized tobacco smoke filter. 861,035, 4–15–69. Cl. 131—267.
Troxel Mfg. Co.: *See*—
Buckson, Gerald I. 861,055.
Tucker, William T.: *See*—
Gibson, Charles L., and Tucker. 861,049.
Ulmschneider, Lawrence A., and C. H. Benton. Artificial dialyzing body organ. 867,005, 10–21–69. Cl. 210—321.
Vermont, George B., to E. I. du Pont de Nemours and Co. Photochemical purification of ketones. 858,023, 1–21–69. Cl. 204—108.
Voigt, Frederick W., Jr.: *See*—
McSpadden, William M., Jr., and Voigt. 864,005.
Wagner, Richard L.: *See*—
Johnstone, Paul L., and Wagner. 868,002.
Wagner, Richard L., to Hercules Inc. Coating process. 862,018, 5–27–69. Cl. 264—129.
Walden, Richard I., to Leesona Corp. Drive control means for a yarn traverse roll mechanism. 868,004, 11–18–69. Cl. 242—18.1.
Wallace, David J.: *See*—
Weaver, Max A., and Wallace. 864,013.
Weaver, Max A., and D. J. Wallace. Water-insoluble methine compounds. 864,013, 7–29–69. Cl. 260—247.5.
Webster, Frank G., and D. W. Heseltine. Thermographic reproduction process in which a colored dye image is formed. 867,016, 10–28–69. Cl. 250—65.
Wenger, Robert F.: *See*—
Allen, Robert L., Wenger, and Williston. 858,003.
Werts, Arthur P., and S. B. Miller, Jr. Cure promoters for trimethylpentanediol based unsaturated polyesters. 864,010, 7–15–69, Cl. 260—78.5.
Western Electric Co., Inc.: *See*—
Avila, Arthur J., and Torok. 868,001.
Whelan, James E., to E. I. du Pont de Nemours and Co. Process for producing fibrous webs. 867,014, 10–28–69. Cl. 264—24.
Whitaker, Andrew W., and O. P. Mullins. Air-oil mist generating device with alarm means. 862,004, 5–6–69. Cl. 340—412.
Williams, James E.: *See*—
Hargis, Charles W., Williams, and Young. 861,050.
Williams, Stanley V.: *See*—
Buckson, Gerald I., Masino, Sturdevant, and Williams. 861,056.
Buckson, Gerald I., Masino, and Williams. 861,028.
Buckson, Gerald I., Masino, and Williams. 861,053.
Willis, William D., to Hercules Inc. Peptizing epihalohydrin polymers with peroxides. 869,010, 12–16–69, Cl. 260—2.
Williston, David W.: *See*—
Allen, Robert L., Wenger, and Williston. 858,003.
Wilson, Donald R., to E. I. du Pont de Nemours and Co. Acid-catalyzed process for cyclodehydration of shaped polyhydrazide structures. 866,027, 9–30–69. Cl. 260—78.4.
Woltersdorf, Robert J. Colloidal silica-potassium silicate mixtures and method for preparing same. 858,011, 1–7–69. Cl. 252—313.
Wood, George F. L.: *See*—
Baxendale, Ralph W., and Wood. 867,007.
Woodward, Robert N., and J. E. South. Printing plates and method of preparing same. 867,012, 10–21–69. Cl. 96—36.3.
Woolgar, Ronald J. H., to Ford Motor Co. Collapsible steering column for a motor vehicle. 866,016, 9–16–69. Cl. 74—492.
Wooten, Willis C., Jr.: *See*—
Meyer, Max F., Jr., Combs, and Wooten. 869,015.
Yackel, Edward C. Lithographic printing plate. 868,008, 11–18–69, Cl. 96—33.
Yantz, Robert C., and C. A. Jarrett. Process for producing heather yarn. 868,011, 11–18–69. Cl. 264—103.
Young, Howard S.: *See*—
Hargis, Charles W., Williams, and Young. 861,050.
Larkins, Thomas H., Jr., Young, and Akin. 863,010.
McDaniel, Edgar L., and Young. 860,014.
Young, Howard S., and E. L. McDaniel, to Eastman Kodak Co. Process for preparing unsaturated aliphatic aldehydes and monocarboxylic acids. 863,002, 6–24–69. Cl. 260—604.
Zimmt, Werner S., to E. I. du Pont de Nemours and Co. Dual primer coating process. 866,025, 9–30–69. Cl. 117—75.

1969

LIST OF DISCLAIMERS AND DEDICATIONS

Adler, Norwood A., Oakland City, Ind. Dedication filed Dec. 19, 1968, by the assignee, Kent Plastics Corporation. No. 3,365,321; v. 861; p. 1344.

Aikens, Andrew J., East Orange, Nelson Botsford, Morristown, and Albert P. Boysen, Jr., Basking Ridge, N.J., Eginhard Dietze, deceased, by Katherine R. Dietze, executrix, Clearwater, Fla., Walter D. Goodale, Jr., Summit, and Alfred H. Inglis, Upper Montclair, N.J. Disclaimer filed Nov. 5, 1968, by the assignee, Bell Telephone Laboratories, Incorporated. No. 2,732,436; v. 861; p. 343.

Albertson, Orris E., Norwalk, and William E. Budd, Ridgefield, Conn. Disclaimer and dedication filed Sept. 27, 1968, by the assignee, Dorr-Oliver Incorporated. No. 3,351,030; v. 858; p. 1029.

Allen, Charles F. H., and Donald M. Burness, Rochester, N.Y. Disclaimer filed May 15, 1969, by the assignee, Eastman Kodak Company. No. 3,232,764; v. 867; p. 334.

Allen, William A., San Bernardino, Calif. Disclaimer filed Jan. 21, 1969, by the assignee, Jarke Corporation. No. 3,360,143; v. 866; p. 1032.

Anderson, Gerald R., Campbell, Calif. Disclaimer filed Mar. 3, 1969, by the assignee FMC Corporation. No. 3,269,441; v. 864; p. 324.

Arditi, Maurice, Clifton, N.J. Disclaimer filed July 15, 1969, by the assignee, International Telephone and Telegraph Corporation. No. 3,174,114; v. 868; p. 1.

Arko, Robert E., Mount Prospect, Ill. Dedication filed Aug. 20, 1969, by the assignee, Teletype Corporation. No. 3,226,477; v. 869; p. 345.

Auten, Charles R., Charlotte, N.C., and Howard H. Langdon, Fairport, N.Y. Disclaimer filed Jan. 16, 1969, by the assignee, Curlator Corporation. No. 3,326,609; v. 862; p. 986.

Barkman, Aaron and Mike S. Fujimoto, Chicago, and Burnham R. Orwig, Crete, Ill. Disclaimer and dedication filed Mar. 10, 1969, by the assignee, The Sherwin-Williams Company. No. 3,050,263; v. 866; p. 1031.

Barr, Dennis Arthur, Welwyn, Eric Nield, Stevenage, and John Brewster Rose, St. Albans, England. Disclaimer filed Nov. 22, 1968, by the assignee, Imperial Chemical Industries Limited. No. 3,352,832; v. 861; p. 2.

Barrett, Arthur M., Jr., Northbrook, Ill. Disclaimer filed Nov. 8, 1968, by the inventor; the assignee, Barrett Electronics Corporation, consenting. No. 3,128,840; v. 861; p. 1343.

Bates, Arthur I., Wilmington, Del. Disclaimer filed May 22, 1969, by the assignee, FMC Corporation. No. 3,146,116; v. 869; p. 1361.

Becking, Paul E., Lake Orion, James D. Bungard, East Detroit, and Roy E. Sherman, Warren, Mich. Disclaimer filed Jan. 27, 1969, by the assignee, Intercontinental Systems, Inc. No. 3,283,871; v. 860; p. 1.

Bertelsen, Bruce I., Essex Junction, Vt. Disclaimer filed Aug. 22, 1969, by the assignee, International Business Machines Corporation. No. 3,361,659; v. 869; p. 687.

Blackmer, David E., Waltham, Mass. Disclaimer filed Aug. 23, 1968, by the assignee, Leeds & Northrup Company. No. 3,283,157; v. 858; p. 1.

Bock, Gerald L., and Charles Weber, Elkhart County, Ind. Disclaimer filed Mar. 14, 1969, by the assignee, Elkhart Welding and Boiler Works, Inc. No. 3,206,224; v. 864; p. 324.

Boggs, Beryl A., Chesterfield County, Va. Disclaimer filed Apr. 28, 1969, by the assignee, Allied Chemical Corporation. No. 3,383,848; v. 863; p. 2.

Bolesky, John D., Mansfield, Ohio. Dedication filed Apr. 4, 1969, by the assignee, Therm-O-Disc, Incorporated. Reissue No. 26,406; v. 865; p. 317.

Bonvicini, Alberto, Terni, Italy. Disclaimer filed Aug. 13, 1969, by the assignee, Montecatini Edison S.p.A. No. 3,267,046; v. 869; p. 346.

Boyajian, Setrak K., Worcester, Mass. Dedication filed Oct. 17, 1968, by the assignee, E. I. du Pont de Nemours and and Company. Reissue No. 26,142; v. 860; p. 1.

Brainard, Wallace E., Milwaukee, and Kenneth R. Merner, Greendale, Wis. Disclaimer filed Sept. 24, 1969, by the assignee, Kearney & Trecker Corporation. No. 3,099,873; v. 868; p. 1.

Brekke, Byron O., Brooklyn Center, Minn. Disclaimer filed Apr. 21, 1969, by the assignee, Honeywell Inc. No. 3,083,930; v. 866; p. 1032.

Brekke, Bryan O., Brooklyn Center, Minn. and Roy C. Johnston, Dallas, Tex. Disclaimer filed Apr. 21, 1969, by the assignee, Honeywell Inc. No. 3,131,371; v. 866; p. 1032.

Brown, Edward L., Middletown, Ohio. Disclaimer filed Dec. 23, 1968, by the assignee, Armco Steel Corporation. No. 3,324,616; v. 861; p. 1343.

Brown, Morris E., Rochester, N.Y. Disclaimer filed Sept. 16, 1969, by the assignee, Eastman Kodak Company. No. 3,291,022; v. 867; p. 1066.

Brown, Omar L., Dayton, Ohio. Disclaimer filed July 28, 1969, by the assignee, Ermal C. Fraze. No. 3,445,028; v. 868; p. 2.

Budd, Allan L., La Habra, Calif. Disclaimer filed Aug. 20, 1968, by the assignee, Beckman Instruments, Inc. No. 3,278,399; v. 858; p. 1.

Bullard, Robert A., Westboro, Mass. Disclaimer filed May 26, 1969, by the assignee, George H. Bullard Co., Inc. No. 3,081,584; v. 867; p. 334.

Burke, Lawrence A., Royal Oak, Mich. Disclaimer filed Nov. 6, 1968, by the assignee, Temprite Products Corporation. No. 3,298,191; v. 859; p. 2.

Cagle, William B., Colts Neck, and Robert S. Menne, Little Silver, N.J. Disclaimer filed Oct. 21, 1968, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,350,692; v. 860; p. 661.

Capita, Emil Robert, North Bergen, N.J. Disclaimer filed Dec. 4, 1968, by the assignee, Western Electric Company, Incorporated. No. 3,233,578; v. 863; p. 647.

Carlson, Norman G., White Bear Lake Township, Ramsey County, Minn. Disclaimer filed Aug. 11, 1969, by the inventor; the assignee, Minnesota Mining and Manufacturing Company, consenting. No. 3,210,166; v. 866; p. 685.

Carrier, Robert M., Jr., Jeffersonville, Ind. Disclaimer filed May 2, 1969, by the assignee, Carman Industries Inc. Reissue No. 26,291; v. 867; p. 334.

Carter, Clarence J., Rolling Hills, Calif., and Richard F. Stewart, Richardson, Tex. Disclaimer filed May 8, 1969, by the assignee, Texas Instruments Incorporated. No. 3,377,215; v. 863; p. 647.

Chopra, Kasturi L., Lexington, and Myron Ronald Randlett, North Wilmington, Mass. Disclaimer filed Feb. 20, 1969, by the assignee, Kennecott Copper Corporation. No. 3,409,529; v. 863; p. 2.

Christensen, Frank L, Saratoga, Calif. Disclaimer filed Jan. 16, 1969, by the assignee, Tempress Research Co. No. 3,358,897; v. 862; p. 986.

Christian, Joseph Dennis, San Francisco, Calif. Disclaimer filed May 16, 1969, by the assignee, Packaged Power Terminals Inc. No. 3,386,708; v. 863; p. 979.

Clark, Clayton H., Mundelein, and Donald J. Stefanik, Berwyn, Ill. Disclaimer filed Nov. 18, 1969, by the assignee, SCM Corporation. No. 3,291,909; v. 869; p. 1361.

Clark, Clayton H., Mundelein, and Donald J. Stefanik, Berwyn, Ill. Disclaimer filed Nov. 18, 1969, by the assignee, SCM Corporation. No. 3,417,690; v. 869; p. 1361.

Clark, Robert E., and Jorma O. Sarto, Orchard Lake, Mich. Disclaimer filed Apr. 28, 1969, by the inventors; the assignee, Chrysler Corporation, consenting. No. 3,356,083; v. 864; p. 324.

Coggeshall, Almy D., Schenectady, and Linn T. Stafford, Scotia, N.Y. Disclaimer filed June 11, 1969, by the assignee, General Electric Company. No. 2,747,118; v. 867; p. 334.

Cramer, Robert H., Sylvander C. Eastwood, Woodbury, and Abbott F. Houser, Cherry Hill, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,193,491; v. 861; p. 2.

Cramer, Robert H., Woodbury, and Abbott F. Houser, Merchantville, N.J., Albert B. Schwartz, Philadelphia, Pa., and Robert C. Wilson, Jr., Woodbury, N.J. Disclaimer filed Nov. 20, 1968; by the assignee, Mobil Oil Corporation. No. 3,193,511; v. 861; p. 2.

Cunningham, Robert A., Bellaire, Gerald O. Aktinson, Pasadena, and William H. Cline, Jr., deceased, late of Bellaire, by Marilynn C. Cline, executrix, Houston, Tex. Disclaimer and dedication filed Sept. 11, 1968, by the assignee, Hughes Tool Company. No. 3,199,878; v. 858; p. 1029.

Daleo, Frank G., Armonk, N.Y. Disclaimer filed Oct. 22, 1968, by the assignee, Lear Siegler, Inc. No. 3,353,408; v. 860; p. 661.

Dall, Albert H., and George L. Grove, Cincinnati, Ohio. Disclaimer filed July 1, 1969, by the assignee, The Cincinnati Milling Machine Co. No. 3,046,704; v. 865; p. 664.

Daub, Rudolph, Caldwell, N.J. Disclaimer filed May 23, 1969, by the inventor. No. 3,023,061; v. 864; p. 323.

Davis, Edward M., Jr., and Arthur H. Mones, Poughkeepsie, N.Y. Disclaimer filed Mar. 14, 1969, by the assignee, International Business Machines Corporation. No. 3,456,158; v. 866; p. 1402.

Davis, Edward M., Jr., Chappaqua, and Robert D. McNutt and Arthur H. Mones, Poughkeepsie, N.Y. Disclaimer filed Mar. 14, 1969, by the assignee, International Business Machines Corporation. No. 3,456,159; v. 866; p. 1402.

Dempster, George R., and William A. Herpich, Knoxville, Tenn. Disclaimer filed Aug. 5, 1969, by the inventor, George R. Dempster, deceased, by Trust Company of Georgia, as executor, and the assignee, Dempster Brothers, Inc. No. 2,900,096; v. 869; p. 346.

De Stevents, George, and Lincoln Harvey Werner, Summit, N.J. Disclaimer filed June 16, 1969, by the inventors; the assignee, Ciba Corporation, consenting. No. 3,340,150; v. 867; p. 1066.

Dowgiallo, Edward J., Jr., Oxon Hill, Md. Disclaimer filed Oct. 7, 1968, by the inventor. No. 3,389,018; v. 861; p. 1344.

Dreyfus, Robert L., Arlington, and John W. Harrison, Winchester, Mass. Disclaimer filed Oct. 23, 1968, by the assignee, W. R. Grace & Company. No. 2,976,655; v. 859; p. 1007.

Ebert, Glenn W., Eugene, Oreg. Disclaimer filed Dec. 2, 1968, by the assignee, McKenzie Sand & Gravel Co. No. 3,415,499; v. 861; p. 1344.

Edwards, Richard A., Walnut Creek, Calif. Disclaimer filed May 2, 1969, by the assignee, Roto-Stamp Corporation. No. 3,255,941; v. 867; p. 334.

Egan, Clark J., Piedmont, and Robert J. White, Pinole, Calif. Disclaimer filed Dec. 11, 1968, by the assignee, Chevron Research Company. No. 3,365,390; v. 861; p. 1343.

Endres, Herbert A., Cuyahoga Falls, and James W. Shaw, Jr., Akron, Ohio, and Harold B. Pullar, Magnolia, Ark. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 2,700,655; v. 863; p. 327.

Endres, Herbert A., Silver Lake, and James W. Shaw, Jr., Akron, Ohio, and Harold B. Pullar, Magnolia, Ark. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 2,809,179; v. 863; p. 327.

Endres, Herbert A., Silver Lake, Ohio and Walter F. Winters, Winnetka, Ill. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire and Rubber Company. No. 2,921,919; v. 863; p. 327.

Endres, Herbert A., Silver Lake, and Warren W. Burr, West Richfield, Ohio. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire and Rubber Company. No. 3,127,367; v. 863; p. 327.

Endres, Herbert A., Cuyahoga Falls, Ohio, Harold B. Pullar, Hot Springs, Ark., and Paul W. Gilkeson, Jr., Houston, Tex. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 3,202,623; v. 863; p. 327.

Endres, Herbert A., Silver Lake, Ohio. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 3,253,521; v. 863; p. 328.

Fawkes, Donald G., Chicago, Ill. Disclaimer filed Apr. 14, 1969, by the assignee, Henry Pratt Company. No. 3,357,269; v. 862; p. 986.

Fawkes, Donald G., Aurora, Ill. Disclaimer filed July 5, 1968, by the assignee, Henry Pratt Company. No. 3,418,411; v. 860; p. 335.

Fohl, Timothy, East Acton, Mass. Disclaimer filed Aug. 27, 1969, by the assignee, Harry Eugene Stubbs. No. 3,460,384; v. 867; p. 1.

Ford, James A., Sturgis, Mich. Disclaimer filed Nov. 21, 1968, by the assignee, Kirsch Company. Reissue No. 26,269; v. 861; p. 343.

Fossel, Spencer M., Morristown, N.J. Disclaimer filed Dec. 2, 1968, by the assignee, Unimed, Inc. No. 3,439,096; v. 863; p. 647.

Friedly, Robert C., Lorain, Ohio. Dedication filed Feb. 5, 1969, by the assignee, Gregory Industries, Inc. No. 2,663,270; v. 863; p. 2.

Fryer, Rodney Ian, North Caldwell, and Leo Henryk Sternbach, Upper Montclair, N.J. Disclaimer filed Mar. 28, 1969, by the assignee, Hoffmann-La Roche Inc. No. 3,391,159; v. 864; p. 324.

Ganz, Robert H., Bergenfield, N.J. Disclaimer filed July 29, 1969, by the assignee, Continental Can Company, Inc. No. 3,187,479; v. 866; p. 685.

Gee, Paul Y. C., Woodbury, and Harry J. Andress, Jr., Pitman, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,264,075; v. 861; p. 2.

Gerry, Martin E., Santa Ana, Calif. Disclaimer filed Dec. 10, 1968, by the inventor. No. 3,359,665; v. 860; p. 1.

Glasby, Francis G., and Ernest B. Robinson, Chesterfield, England. Disclaimer filed Dec. 30, 1968, by the assignee, Robinson & Sons Ltd. No. 3,330,136; v. 861; p. 1343.

Goldberg, Earl J., Wilmington, Del. Disclaimer filed Oct. 31, 1968, by the assignee, E. I. du Pont de Nemours and Company. No. 3,055,952; v. 858; p. 1029.

Gotzfried, Konrad, Augsburg-Goggingen, Germany. Dedication filed Mar. 11, 1969, by the inventor. No. 2,911,783; v. 861; p. 1011.

Gotzfried, Konrad, Augsburg-Goggingen, Germany. Dedication filed Mar. 11, 1969, by the inventor. No. 2,928,228; v. 861; p. 1011.

Granger, David D., Conover, N.C. Disclaimer filed July 22, 1969, by the assignee, Maxwell Royal Chair Company. Design No. 211,633; v. 868; p. 1.

Granger, David D., Conover, N.C. Disclaimer filed July 22, 1969, by the assignee, Maxwell Royal Chair Company. Design No. 211,785; v. 868; p. 1.

Granger, David D., Conover, N.C. Disclaimer filed July 22, 1969, by the assignee, Maxwell Royal Chair Company. Design No. 211,786; v. 868; p. 1.

Griffith, George Edward, and Jose R. Cid, Mexico City, Mexico. Dedication filed June 16, 1969, by the assignee, Colgate-Palmolive Company. Design No. 213,074; v. 867; p. 333.

Grosholz, James R., Strafford, and John D. Wallace, Wyndmoor, Pa. Disclaimer filed Dec. 30, 1968, by the assignee, Air-Shields, Inc. No. 3,335,713; v. 861; p. 1343.

Haddadin, Makhluf J., and Costas H. Issidorides, Beirut, Lebanon. Disclaimer filed Jan. 27, 1969, by the assignee, Research Corporation. No. 3,398,141; v. 860; p. 335.

Hann, Melvin M., Rockford, Ill. Disclaimer filed June 25, 1969, by the assignee, Sundstrand Corporation. No. 2,888,810; v. 867; p. 334.

Hanson, Rudolph A., and Frank J. Deptula, Jackson, Mich. Disclaimer filed Dec. 23, 1968, by the assignee, Yard-Man, Inc. No. 3,299,622; v. 861; p. 1343.

Harp, Harry J., Jenkintown, Walter T. Leible, Conshohocken, and William M. McCort, Warmister, Pa. Disclaimer filed Sept. 5, 1969, by the assignee, Union Carbide Corporation. No. 3,409,224; v. 867; p. 334.

Hecht, Victor, Haysville, Kans. Dedication filed Sept. 25, 1968, by the inventor and the assignee, The Haysville State Bank. No. 3,054,594; v. 858; p. 1029.

Helfrey, Paul F., Montebello, Nicholas L. Kay, Fullerton, Bernal Peralta, Anaheim, and Cloyd P. Reeg, Orange, Calif. Disclaimer filed Aug. 13, 1969, by the assignee, Union Oil Company of California. No. 3,132,090; v. 866; p. 1032.

Henselee, Waldo W., Jr. and Darryl W. Cockrell, Houston, Tex. Disclaimer filed Aug. 9, 1968, by the assignee, Baker Oil Tools, Inc. No. 3,311,173; v 858; p. 1.

Hilbert, Richard G., Smithfield, R.I. Dedication filed Mar. 28, 1969, by the assignee, Leesona Corporation. No. 3,044,247; v. 864; p. 323.

Himelreich, Louis E., Louisville, Ky. Disclaimer filed July 15, 1969, by the assignee, H. J. Scheirich Company. No. 3,282,635; v. 868; p. 1057.

Hire, Charles John, Mansfield, Ohio. Dedication filed Apr. 4, 1969, by the assignee, Thermo-O-Disc, Incorporated. No. 3,248,501; v. 866; p. 1031.

Hirvela, Robert J., Cedar Rapids, Iowa. Disclaimer filed Mar. 11, 1969, by the inventor; the assignee, Collins Radio Company, assenting. No. 3,350,697; v. 864; p. 1390.

Hopkes, Henry, Jr., Groose Pointe Park, Mich. Disclaimer filed Apr. 14, 1969, by the assignee, Lear Siegler, Inc. Reissue No. 26,373; v. 865; p. 317.

Houlihan, William J., Mountain Lakes, N.J. Disclaimer filed Aug. 19, 1969, by the assignee, Sandoz Inc. No. 3,384,091; v. 866; p. 1402.

Jasper, John C., Hinsdale, Ill. Disclaimer and dedication filed May 22, 1969, by the assignee, Continental Can Company, Inc. No.3,406,866; v. 864; p. 654.

Jebens, Ray H. Bethesda, Md. and Everett N. Sieder, McLean, Va. Disclaimer filed June 6, 1969, by the assignee, United States of America as represented by the Secretary of the Interior, No. 3,320,137; v. 864; p. 1390.

Johnson, Walter L., Plaistow, N.H. Disclaimer filed June 9, 1969, by the assignee, Western Electric Company, Incorporated. No. 3,381,657; v. 864; p. 653.

Johnston, Henry E., Huntingdon Valley, Pa. Disclaimer filed Sept. 19, 1968, by the assignee, Philco-Ford Corporation. No. 3,271,035; v. 858; p. 1029.

Jones, John I., Lorain, George C. Noll, Elyria, John D. Nielson, Lorain, and George B. Klos, and Erwin C. Brekellaum, Elyria, Ohio. Disclaimer filed Nov. 10, 1969, by the assignee, Koehring Company. No. 3,083,837; v. 869; p. 1032.

Just, Alex, River Forest, Paul A. Maximoff, West Chicago, and Harold B. Kalmar, Chicago, Ill. Dedication filed Jan. 29, 1969, by the assignee, Malco Manufacturing Company, Inc. No. 2,995,617; v. 861, p. 1344.

Just, Alex, River Forest, Paul A. Maximoff, Barrington, and Richard T. Krause, Barrington Hill, Ill. Dedication filed Feb. 10, 1969, by the assignee, Malco Manufacturing Company, Inc. No. 3,086,074; v. 862; p. 986.

Just, Alex, River Forest, Paul A. Maximoff, Barrington, and Richard T. Krause, Barrington Hill, Ill. Dedication filed Feb. 10, 1969, by the assignee, Malco Manufacturing Company, Inc. No. 3,136,591; v. 862; p. 986.

Kallmann, Hartmut P., and Milton Furst, Bronx, and Felix H. Brown, Kew Garden Hills, N.Y. Disclaimer filed May 1, 1969, by the assignee, Rahn Corporation. No. 3,068,178; v. 867; p. 334.

Kalns, Ilmars, Taylor, Mich. Disclaimer filed May 16, 1969, by the assignee, Formsprag Company. Reissue No. 26,540; v. 867; p. 334.

Kamborian, Jacob S., Boston, Allen C. Harriman, Brockton, Geoffrey T. Jones, Walpole, and Karl F. Vornberger, Tewksbury, Mass. Disclaimer filed Apr. 17, 1969, by the assignee, Jacob S. Kamborian. No. 3,422,474; v. 865; p. 318.

Karsten, Kenneth S., Westport, and Wilbur S. Taylor, Norwalk, Conn. Disclaimer filed June 10, 1968, by the assignee, R. T. Vanderbilt Company, Inc. No. 3,412,033; v. 861; p. 343.

Kaufman, Melvin M., Merchantville, N.J. Disclaimer filed Feb. 25, 1969, by the assignee, Radio Corporation of America. No. 3,142,768; v. 866; p. 1032.

Kinkaid, Robert J., Harrisburg, Pa. Disclaimer filed Mar. 19, 1969, by the assignee, AMP Incorporated. No. 3,075,167; v. 862; p. 653.

Landrum, Robert J., Wilmington, and John Teti, Sr., New Castle, Del. Dedication filed Mar. 19, 1969, by the assignee, E. I. du Pont de Nemours and Company. No. 3,228,236; v. 864; p. 323.

Lautenschlaeger, Friedrich K., Toronto, Ontario, Canada. Disclaimer filed Aug. 15, 1969, by the assignee, The Dunlop Company Limited. No. 3,403,166; v. 869; p. 346.

Lautenschlaeger, Friedrich K., Toronto, Ontario, Canada. Disclaimer filed Aug. 15, 1969, by the assignee, The Dunlop Company Limited. No. 3,417,099; v. 869; p. 346.

Leeson, James L., Jr., Rockford, Ill. Disclaimer filed Nov. 21, 1968, by the assignee, Woodward Governor Company. No. 3,367,110; v. 861; p. 2.

Leger, Alton, Jr., Roslyn, Pa. Disclaimer filed Aug. 5, 1968, by the assignee, Honywell Inc. No. 3,237,018; v. 858; p. 1.

Leutwyler, Kurt, Whittier, Calif. Disclaimer filed Aug. 9, 1968, by the assignee. Baker Oil Tools, Inc. No. 3,252,516; v. 858; p. 1.

Locklar, Henry C., and Donald E. Sims, Lexington, Ky. Disclaimer filed Mar. 12, 1969, by the assignee, International Business Machines Corporation. No. 3,260,340; v. 864; p. 324.

Ludwig, Carl, Cleveland, Ohio. Disclaimer filed Mar. 19, 1969, by the assignee, McDowell-Wellman Engineering Company. No. 3,307,717; v. 864; p. 324.

McAdam, John C., Burbank, Calif. Disclaimer filed Sept. 23, 1968, by the assignee, International Electronic Research Corporation. Reissue No. 25,184; v. 858; p. 1029.

McConnell, Kennedy, Riverdale, Ill. Disclaimer filed July 14, 1969, by the assignee, Interlake Steel Corporation. No. 3,348,698; v. 868; p. 2.

McKay, Tom W., Baton Rouge, La. Disclaimer filed June 20, 1969, by the assignee, Ethyl Corporation. No. 3,088,957; v. 867; p. 334.

MacGregor, Dean J., and John W. Weber, Rochester, N.Y. Disclaimer filed Dec. 11, 1968, by the assignee, Eastman Kodak Company. No. 3,404,613; v. 861; p. 1344.

MacLean, Alexander F., and Adin L. Stautzenberger, Corpus Christi, Tex. Disclaimer filed Jan. 31, 1969, by the assignee, Celanese Corporation. No. 3,192,256; v. 861; p. 1343.

Mahaffy, Reid A., Montclair, and John R. Harder, Cedar Grove, N.J. Disclaimer filed May 1, 1969, by the inventors. No. 3,125,839; v. 864; p. 653.

Malm, Carl J., Martin E. Rowley, and Nelson G. Baumer, Rochester, N.Y. Dedication filed Dec. 9, 1968, by the assignee, Eastman Kodak Company. No. 3,342,728; v. 861; p. 1344.

Manning, Emmett W. Pittsfield, Mass. Dedication filed May 2, 1969, by the assignee, General Electric Company. No. 2,975,357; v. 867; p. 333.

Markowitz, Jerome, Allentown, Milton F. Nelson, Macungie, and Edwin H. Strain, Allentown, Pa. Disclaimer filed June 2, 1969, by the assignee, Allen Organ Company. No. 3,248,470; v. 864; p. 324.

Martin, Warner W., Olmstead Falls, and Clifton D. Sweet, Jr., Berea, Ohio. Disclaimer filed June 26, 1969, by the assignee. The Lau Blower Company. No. 3,352,297; v. 867; p. 334.

Marx, Paul F., Bradford, Pa. Dedication filed Dec. 2, 1968, by the assignee, Dresser Industries, Inc. No. 2,887,446; v. 861; p. 1344.

May, Herbert, Oldbury, near Birmingham, Brian John Kendall-Smith, Birmingham, and Susannah Burr, Camargue, Welland, England. Disclaimer filed Feb. 24, 1969, by the assignee, British Industrial Plastics Limited. No. 3,422,035; v. 863; p. 2.

Merian, Ernest, Bottmingen, Basel-Land, Switzerland. Disclaimer filed June 2, 1969, by the inventor. No. 3,178,405; v. 867; p. 334.

Metzger, John A., Glenview, Ill. Disclaimer filed Jan. 15, 1969, by the inventor and the assignee, Stanley Knight Corporation. No. 3,295,598; v. 863; p. 647.

Meyer, Edward M., Silver Spring, Md. Disclaimer filed Feb. 27, 1969, by the assignee, General Electronics Laboratories, Inc. No. 3,342,952; v. 861; p. 343.

Miller, Harold R., Holyoke, Mass. Dedication filed Mar. 13, 1969, by the assignee, Hercules Incorporated. No. 3,427,217; v. 864; p. 323.

Miller, John S., Poland, Ohio. Disclaimer filed Mar. 24, 1969, by the assignee, Republic Steel Corporation. No. 3,311,819; v. 863; p. 327.

Miller, Park H., Jr., Del Mar, Calif. Disclaimer filed Sept. 30, 1968, by the inventor; the assignee, Gulf General Atomic Incorporated, assenting. No. 3,404,400; v. 858; p. 1030.

Möller, Fritz, Bensberg-Frankenforst, Heinz Groschopp, Dusseldorf-Holthausen, and Rudolf Wagenknecht, Cologne-Lindenthal, Germany. Disclaimer filed Mar. 3, 1969, by the assignee, Gerhard Collardin G.m.b.H. No. 3,454,407; v. 866; p. 1402.

Monsees, Claude E., Durham, N.C. Disclaimer filed Aug. 5, 1968, by the assignee, Wright Machinery Company, Inc. No. 3,182,737; v. 858; p. 1.

Mortley, Wilfrid Sinden, Great Baddow, England. Disclaimer filed Dec. 5, 1968, by the assignee, The Marconi Company Limited. No. 3,300,739; v. 858; p. 687.

Muller, Francois, Griffith, Ind., and Paul Nilles, Embourg, and Etienne Denis, Grivegnee, Belgium. Disclaimer filed June 30, 1969, by the assignee, Institut de Recherches de la Siderurgie Francaise. No. 3,356,490; v. 868; p. 2.

Murglin, Joseph G., Norridge, Ill. Dedication filed Aug. 20, 1969, by the assignee, Teletype Corporation. No. 3,154,637; v. 869; p. 345.

Naro, Paul A., Pennington, and Robert D. Offenhauer, West Trenton, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,397,155; v. 861; p. 3.

Nawakowskii, Aleksandra Chrobok, Glenbrook, and Artur Maurice Schiller and Samuel Shan-Ning Wang, Stamford, Conn. Disclaimer filed Sept. 24, 1968, by the assignee, American Cyanamid Company. No. 3,386,956; v. 861; p. 1343.

Nelson, Donald E., Statesville, N.C. Disclaimer filed Sept. 9, 1968, by the assignee, Kewaunee Technical Furniture Company. No. 3,316,041; v. 863; p. 327.

Nelson, Ted, San Leandro, Calif. Dedication filed Feb. 5, 1969, by the assignee, Gregory Industries, Inc. No. 2,584,491; v. 863; p. 2.

Nelson, Ted, San Leandro, Calif. Dedication filed Feb. 5, 1969, by the assignee, Gregory Industries, Inc. No. 2,612,394; v. 863; p. 2.

Nelson, Ted, San Leandro, Calif. Dedication filed Feb. 5, 1969, by the assignee, Gregory Industries, Inc. No. 2,635,167; v. 863; p. 2.

Noll, George C., and Paul E. Wesebaum, Elyria, Ohio. Disclaimer filed Aug. 20, 1969, by the assignee, Koehring Company. No. 3,021,016; v. 869; p. 1361.

Norris, Edward O., Westport, Conn. Disclaimer and dedication filed Apr. 2, 1969, by the assignee, The Gyromat Corporation. No. 3,219,276; v. 869; p. 345.

Noznick, Peter P., and Charles W. Tatter, Chicago, Ill. Disclaimer filed Aug. 2, 1968, by the assignee, Beatrice Foods Co. No. 3,098,748; v. 858; p. 1.

O'Shea, Patrick J., Hazel Crest, Ill. Disclaimer filed May 8, 1969, by the assignee, Nalco Chemical Company. No. 3,184,813; v. 867; p. 334.

Papayannopoulos, Andreas G., Woodbury, and Herbert Myers, Cherry Hill, N.J. Disclaimer filed Nov. 18, 1968, by the assignee, Mobil Oil Corporation. No. 3,256,188; v. 861; p. 343.

Patel, Chim P., Granite City, Ill. Mark A. Jaeger, Lemay Mo., and Ronald E. Pyle, Granite City, Ill. Disclaimer filed Feb. 18, 1969, by the assignee, Union Starch & Refining Co., Inc. No. 3,378,547; v. 861; p. 3.

Pavlich, Joseph P., and David G. Calvert, Tulsa, Okla. Disclaimer filed Jan. 23, 1969, by the assignee, The Dow Chemical Company. No. 3,310,111; v. 865; p. 318.

Peebles, David D., Davis, and Paul D. Clary, Jr., Petaluma, Calif. Disclaimer filed May 27, 1969, by the assignee, Dairy Foods Incorporated. No. 2,850,388; v. 864; p. 323.

Perlin, Bernard, Los Angeles, Calif. Disclaimer filed Nov. 13, 1968, by the assignee, Rheem Manufacturing Company. No. 3,011,601; v. 861; p. 343.

Petersen, Maurice E., and Albert B. Zeissler, Schenectady, N.Y. Disclaimer filed June 11, 1969, by the assignee, General Electric Company. No. 2,747,119; v. 867; p. 334.

Pisani, Joseph P., Mount Prospect, and Luther D. Hilker, Evanston, Ill. Disclaimer filed Oct. 13, 1969, by the assignee, Kraftco Corporation. No. 3,345,185; v. 869; p. 687.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Deptford, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Coporation. No. 3,210,267; v. 861; p. 2.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Deptford, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,257,310; v. 861; p. 2.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Deptford, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,264,208; v. 861; p. 2.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Deptford, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,271,418; v. 861; p. 2.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Almonesson, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,277,018; v. 861; p. 2.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Almonesson, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,370,099; v. 861; p. 3.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Almonesson, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,391,075; v. 861; p. 3.

Plank, Charles J., Woodbury, and Edward J. Rosinski, Deptford, N.J. Disclaimer filed May 22, 1969, by the assignee, Mobil Oil Corporation. No. 3,459,680; v. 868; p. 701.

Randolph, John E., Palatine, Ill. Disclaimer filed Feb. 19, 1969, by the assignee, Teletype Corporation. No. 3,300,163; v. 861; p. 343.

Reading, Ralph R., Hawthorne, Calif. Dedication filed July 10, 1968, by the assignee, John M. Lee. No. 3,026,045; v. 858; p. 1.

Rhyne, Earl C., Jr., Millis, Mass. Disclaimer filed Oct. 3, 1968, by the inventor; the assignee, Sola Basic Industries, Inc., assenting. No. 3,335,356; v. 860; p. 335.

Ribaldone, Giuseppe, Gallarate, Varese, Franco Smai, Novate Milanese, and Carmine Garbuglio, Milan, Italy. Disclaimer filed Feb. 24, 1969, by the inventors; the assignee, Montecatini Edison S.p.A., consenting. No. 3,436,194; v. 866; p. 1032.

Rickel, Allen D., Northfield, Ill. Disclaimer filed Sept. 15, 1969, by the assignee, Auto Laundry Equipment Sales Company. No. 3,233,557; v. 870; p. 716.

Rigolini, Venerio J., Brooklyn, N.Y. Disclaimer filed Nov. 29, 1968, by the assignee, Whitehouse Products, Inc. No. 3,399,376; v. 860; p. 335.

Robinson, Denis M., Arlington, Mass. Disclaimer filed June 27, 1969, by the assignee, High Voltage Engineering Corporation. No. 2,729,748; v. 865; p. 318.

Roman, Robert J., Rochester, N.Y. Disclaimer filed Nov. 5, 1969, by the assignee, Eastman Kodak Company. No. 3,300,155; v. 869; p. 687.

Rosenberg, William E. Parma, Ohio. Disclaimer filed Dec. 16, 1968, by the assignee, Enthone, Incorporated. No. 3,393,135; v. 861; p. 1344.

Rote, Frank C., and Rollin H. Spelman, Akron, Ohio. Disclaimer filed Feb. 24, 1969, by the assignee, The General Tire & Rubber Company. No. 3,302,680; v. 865; p. 318.

Royce, Martin R., Lancaster, Pa. Disclaimer filed Sept. 24, 1969, by the assignee, RCA Corporation. No. 3,423,621; v. 868; p. 2.

Sachs, Charles M., West Englewood, N.J. Disclaimer filed June 7, 1968, by the assignee, International Playtex Corporation. No. 3,381,689; v. 861; p. 1343.
Schlicht, Raymond C., Hopewell Junction, and Herman K. Kluge, Fishkill, N.Y. Disclaimer filed Apr. 2, 1969, by the assignee, Texaco Inc. No. 3,057,896; v. 866; p. 1032.
Schmoeger, Ralph F., Lexington, Ky. Disclaimer filed June 27, 1969, by the assignee, Westinghouse Air Brake Company. No. 3,303,746; v. 867; p. 334.
Schroeder, Hans, Bellbrook, William H. Puterbaugh, Jr., Waynesville, and Robert C. Meckstroth, Dayton, Ohio. Disclaimer filed Feb. 7, 1969, by the assignee, The National Cash Register Company. No. 3,161,457; v. 862; p. 986.
Schulman, David L., Cincinnati, and George E. Brown, Jr., Glendale, Ohio. Disclaimer filed Feb. 3, 1969, by the inventors; the assignee, The Amberly Company, consenting. No. 3,154,255; v. 863; p. 647.
Shaffer, Howard R., Glenside, Pa. Disclaimer filed Apr. 1, 1969, by the assignee, I-T-E Imperial Corporation. No. 3,319,020; v. 866; p. 1032.
Sheng, Alfredo S., Cherry Hill, N.J. Disclaimer filed Aug. 12, 1969, by the assignee, RCA Corporation. No. 3,430,071; v. 869; p. 346.
Shuman, Robert Cowan, Janesville, and Francis John Meinhardt, Edgerton, Wis. Disclaimer filed July 17, 1969, by the assignee, The Parker Pen Company. No. 3,303,825; v. 866; p. 1.
Sinclair, Edward A., Kent, Ohio. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 3,254,045; v. 863; p. 328.
Small, Sollie W., and David Herman, Newark, N.J. Disclaimer filed Aug. 11, 1969, by the assignee, Coffee-Mat Corporation. No. 3,222,500; v. 869; p. 346.
Smothers, William J., Akron, Ohio. Disclaimer filed Dec. 18, 1968, by the assignee, The Ohio Brass Company. No. 3,389,214; v. 861; p. 1344.
Snow, Karl S., Boulder City, Nev., and Schuyler A. Herres, Murray Hill, N.J. Disclaimer filed Dec. 30, 1968, by the assignee, Titanium Metals Corporation of America. No. 3,416,919; v. 861; p. 1344.
Sorstokke, Harold E., New City, N.Y. Disclaimer filed July 3, 1969, by the assignee, Stauffer Chemical Company. No. 3,420,921; v. 865; p. 318.
Spinard, Malcom, and Bryce E. Hoverter, Jr., Reading, Pa. Disclaimer filed May 28, 1969, by the assignee, American Safety Table Company, Inc. No. 3,326,341; v. 867; p. 334.
Sproul, Fred C., Anaheim, Calif. Disclaimer filed Jan. 21, 1969, by the inventor. No. 3,427,645; v. 862; p. 2.
Stanley, John E., Flintridge, Calif. Disclaimer filed June 30, 1969, by the assignee, Duo-Flex Corporation. No. 3,301,165; v. 868; p. 2.
Stelijes, Charles R., and Gerhardt A. Dobslaw, Fayetteville, and Leonard Cordone, East Syracuse, N.Y. Disclaimer filed July 7, 1969, by the inventors and the assignee, Rockwell Manufacturing Company. No. 3,364,574; v. 866; p. 685.
Stentz, Blair E., and William R. Conklin, Murfreesboro, Tenn. Disclaimer filed Nov. 17, 1969, by the assignee, Standard International Corporation. No. 3,275,393; v. 869; p. 1361.
Stiller, Benjamin, Akron, Ohio. Disclaimer filed May 8, 1969, by the assignee, Quikey Manufacturing Company. Reissue No. 24,166; v. 867; p. 334.
Sullivan, James F., St. Marys, Pa. Disclaimer filed Jan. 13, 1969, by the assignee, Stackpole Carbon Company. No. 3,272,941; v. 861; p. 1343.
Szabo, Karoly, Pleasantville, N.Y., and John G. Brady, San Jose, Calif. Disclaimer filed Aug. 27, 1969, by the assignee, Stauffer Chemical Company. No. 3,236,919; v. 869; p. 346.
Takeuchi, Sho, Yokohama-shi, Japan. Disclaimer filed July 8, 1969, by the assignee, Fujitsu Limited. No. 3,223,338; v. 865; p. 1015.
Thornbery, James M., Morton Grove, and Dale F. Willcox, Aurora, Ill. Disclaimer filed Feb. 24, 1969, by the assignee, Controls Company of America. No. 3,033,999; v. 862; p. 986.
Tien, Ping K., Chatham Township, Morris County, N.J. Disclaimer filed Oct. 23, 1968, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,321,714; v. 862; p. 2.
Turchan, John A., East Detroit, Mich. Disclaimer filed July 31, 1969, by the assignee, The Weatherhead Company. No. 3,369,090; v. 868; p. 1057.
Ulrich, Henri, Northford, Conn. Disclaimer filed Sept. 10, 1968, by the inventor; the assignee, The Upjohn Company, assenting. No. 3,330,848; v. 858; p. 1030.
Vacha, Fred, Bow, N.H. Disclaimer filed Apr. 4, 1969, by the inventor; the assignee, Beede Electrical Instrument Co., Inc., assenting. No. 3,302,606; v. 864; p. 324.
Vincent, Edwin F., Camp Springs, Md. Disclaimer filed Jan. 17, 1969, by the inventor. No. 3,337,762; v. 861; p. 343.
Waldmann, Hans F., Glassboro, N.J. Disclaimer filed June 10, 1969, by the assignee, Mobil Oil Corporation. No. 3,280,029; v. 867; p. 334.
Walker, James, Lower Gormal, near Dudley, and Geoffrey W. Westwood, Walsall, England. Disclaimer filed Apr. 24, 1969, by the assignee, Foseco-Fordath A.G. No. 3,428,110; v. 866; p. 1032.
Ward, James C., Springfield, Mo. Disclaimer filed Sept. 13, 1968, by the assignee, A. J. Industries, Inc. No. 2,841,414; v 858; p. 1029.
Weber, Harry R., Haddon Township, Camden County, and Herman F. Hoffmann, Wenonah, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,383,190; v. 861; p. 680.
Weiss, John C., Bourbonnais, Ill. Disclaimer filed July 14, 1969, by the assignee, Geo. D. Roper Corporation. No. 3,422,810; v. 868; p. 2.
Wells, George H. Conshohocken, Pa. Disclaimer filed Feb. 26, 1969, by the assignee, Radio Corporation of America. No. 3,229,113; v. 862; p. 986.
Wettstein, Albert, Riehen, and Georg Anner, Karl Heusler, Jaroslav Kalvoda, and Peter Wieland, Basel, Switzerland. Disclaimer filed July 10, 1969, by the assignee, Ciba Corporation. No. 3,250,792; v. 865; p. 1015.
Williams, Albert J., Jr., Philadelphia, and Norman E. Polster, Southampton, Pa. Disclaimer filed Sept. 18, 1969, by the assignee, Leeds & Northrup Company. No. 3,283,237; v. 868; p. 1.
Williams, Frank R., and Richard S. Neely, Erie, Pa. Disclaimer filed Dec. 6, 1968, by the assignee, Lord Corporation. No. 3,239,403; v. 858; p. 687.
Williams, Raymond F., and Michael E. Martin, Quincy, Ill. Disclaimer filed Nov. 7, 1968, by the assignee, Gardner-Denver Company. No. 3,190,068; v. 861; p. 343.
Winterbottom, Robert, New City, Panayota Bitha, New York, and Henry Marcel Kissman, Nanuet, N.Y. Disclaimer filed May 9, 1969, by the assignee, American Cyanamid Company. No. 3,388,162; v. 867; p. 334.
Zdanowski, Richard E., Fort Washington, Pa. Disclaimer and dedication filed Sept. 23, 1968, by the assignee, Rohm and Haas Company. No. 3,328,325; v. 858; p. 1029.
Zeise, Clarence L., Jr., Plum Boro, Pa. Dedication filed June 18, 1969 by the assignee, Westinghouse Electric Corporation. No. 3,073,004; v. 867; p. 333.

1969

DECISIONS PUBLISHED IN THE OFFICIAL GAZETTE

Aldrich, Paul H., In re. 861 O.G. 353.
Application filed July 13, 1965, In re. 866 O.G. 18.
Arakelian, Arthur N., In re. 868 O.G. 1060.
Aufhauser, Alfred, In re. 862 O.G. 997.
Bailey, Bruce L., Ex parte. 861 O.G. 1349.
Baranauckas, Charles F., and Samuel Gelfand, In re. 859 O.G. 359.
Beckmann, Rudolf, Erich Behr, and Franz Joseph Huster, In re. 868 O.G. 721.
Beeber, Allan Robert Andrew and Daniel S. Spechler *v.* Lester C. Krogh and Richard E. Brink. 866 O.G. 1417.
Beik, Hermann, and Friedrich Thiele, Ex parte. 862 O.G. 657.
Boettner, George B., In re. 859 O.G. 1009.
Booth, Robert Ben, In re. 865 O.G. 325.
Brenner, Edward J., Commissioner of Patents *v.* The State of Israel, Ministry of Defence. 862 O.G. 661.
Bretsch, Michael A., In re. 867 O.G. 336.
Broadley, Robert D., In re. 866 O.G. 351.
Brown, Louise H., and Ronald Swidler, In re. 864 O.G. 1401.
Cademartori, Mervyn, In re. 859 O.G. 35.
Cahn, Arno, Mark D. Konort, and Jerome Rudy, In re. 859 O.G. 683.
Carey, Warren Francis, In re. 858 O.G. 29.
Carlson, David J., In re. 869 O.G. 1039.
Casey, John A., In re. 864 O.G. 1392.
Celanese Corporation, Appellant *v.* Edward J. Brenner, Commissioner of Patents, Appellee. 864 O.G. 1398.
Charvat, Vernon K., In re. 869 O.G. 348.
Chitayat, Anwar K., In re. 867, O.G. 340.
Conix, Andre Jan, and Urbain Leopold Laridon, In re. 866 O.G. 1412.
Cormany, Charles L., William R. Dial, and Blain O. Pray, In re. 867 O.G. 717.
Crabb, Clarence R., and Leighton S. McDonald, In re. 867 O.G. 15.
Craig, Dwin R., and John N. Street, In re. 869 O.G. 1368.
Da Fano, Ettore, In re. 869 O.G. 358.
Decided February 18, 1969. 864 O.G. 712.
Decided September 3, 1968. 866 O.G. 16
Decided October 10, 1968. 863 O.G. 14.
De Lisle, A. Louis, In re. 867 O.G. 722.
Denny, James M., and Sven A. Carlsson, In re. 860 O.G. 339.
Des Granges. Maino, Ex parte. 864 O.G. 712.
Deters, Paul C., In re. 867 O.G. 344.
Dike, Roy W., In re. 859 O.G. 348.
Doebl, Hans, Kurt Bohrmann, and Wilhelm Ruhl, In re. 864 O.G. 330.
Dorsky, Julian, and William M. Easter, Jr., In re. 866 O.G. 358.
Du Puis, Naomi, In re. 864 O.G. 6.
Durbin, Howard M., and John F. Wood, In re. 866 O.G. 7.
Durfee, Sidney A., Bennie L. Culwell, and Raymond C. Barnes, In re. 869 O.G. 1377.
Eckel, Oliver C., In re. 864 O.G. 1069.
Elms, Robert W., In re. 863 O.G. 993.
Eskild, Theodore, and George E. Houghton, In re. 867 O.G. 6.
Facius, Thomas F., In re. 869 O.G. 1045.
Fancher, Llewellyn W., and David James Broadbent, In re. 868 O.G. 704.
Fang, James C., *v.* Elinor M. Hankins and William D. Emmons. 865 O.G. 692.
Farmer, James W., In re. 865 O.G. 700.
Fee, Graham, and William E. Portz, In re. 861 O.G. 1014.
Fredkin, Edward, *v.* Eugene H. Irasek, In re. 865 O.G. 680.
Fuchsman, Charles H., In re. 865 O.G. 1018.
Gale, John A., In re. 858 O.G. 1041.
Garnero, Anthony L., In re. 868 O.G. 1083.
General Electric Company *v.* Edward J. Brenner, Commissioner of Patents. 863 O.G. 8.
Gladrow, Elroy M., and Paul Thomas Parker, In re. 867 O.G. 733.
Grosheim, Gene E., and Albert J. Heeb, In re. 866 O.G. 687.
Gubelmann, William S., deceased, by Walter S. Gubelmann, executor *v.* Herman Gang. 868 O.G. 712.
Hafner, Klaus, In re. 868 O.G. 1086.
Hamilton, Noel F., In re. 865 O.G. 4.
Handrick, Kurt, In re. 867 O.G. 353.
Harrington, John V., and Henning H. Borchers, In re. 867 O.G. 371.
Harris, George R., In re. 860 O. G. 664.
Hayatian, Allan A., In re. 862 O.G. 345.
Hayatian, In re. 864 O.G. 333.
Herr, Milton E., In re. 858 O.G. 689.
Herrick, Franklin W., and Louis H. Bock, In re. 862 O.G. 988.
Hill, Edward J., In re. 867 O.G. 725.
Hoeksema, Herman, In re. 863 O.G. 330.
Hoeschele, Guenther K., In re. 867 O.G. 380.
Hoffman, Edward J., In re. 867 O.G. 713.
Hotten, Bruce W., In re. 869 O.G. 1379.
House, Ronald R., and Yun Jen *v.* Harold R. Miller. 864 O.G. 3.
Jacobson, Ulf C. H., In re. 868 O.G. 351.
Jezl, James L., Habet M. Khelghatian, and Louise D. Hague. In re. 859 O.G. 691.
Jureit, John C., In re. 865 O.G. 677.
Jureit, John C., In re. 867 O.G. 1087.
Jureit, John C., In re. 869 O.G. 1372.
Jursich, Myron J., and Gail T. Randich, In re. 868 O.G. 366.
Kahn, Simon S., *v.* Harvey F. Phipard, Jr. 863 O.G. 981.
Kamal, Marwan R., and Edgar R. Rogier, In re. 860 O.G. 12.
Kanter, Jerome J., In re. 860 O.G. 6.
Klesper, Ernst F. G., In re. 859 O.G. 29.
Kravig, Robert S., and Arnold E. Johnson *v.* David J. Henderson. 858 O.G. 1032.
Land, Edwin, In re. 864 O.G. 1052.
Land, Edwin H., In re. 869 O.G. 21.
Lear, Incorporated, Petitioner *v.* John S. Adkins. 868 O.G. 1067.
Lemelson, Jerome H., In re. 858 O.G. 1038.
Lemin, Alan J., Arnolds Steinhards, and George Swank, In re. 867 O.G. 709.
Leonor, Manuel F., In re. 860 O.G. 688.
Loshbough, Richard C., *v.* Kenneth C. Allen. 866 O.G. 1053.
Maloney, Daniel Edwin, In re. 869 O.G. 12.
Mathews, Charles A., In re. 867 O.G. 356.
Meitzner, Erich F., and James A. Oline *v.* Herbert Corte and Alfred Meyer. 868 O.G. 1091.
Melchiore, John J., and Archibald P. Stuart, In re. 865 O.G. 690.
Mergner, Fritz L., In re. 862 O.G. 10.
Metcalfe, Kenneth A., and William H. Lowe, In re. 869 O.G. 691.
Miegel, Ralph E., and John J. Verbanc, In re. 866 O.G. 1061.
Moberg, Sigurd M., In re. 866 O.G. 1406.
Mod, Robert R., Evald L. Skau, Sara P. Fore, Frank C. Magne, Arthur F. Novak, Harold P. Dupuy, Jesse R. Ortego, and Mary J. Fisher, In re. 867 O.G. 1085.
Moore, John Hampton, In re. 867 O.G. 375.
Morin, Louis H., In re. 866 O.G. 13.
Mullikin, Wilbur J., In re. 866 O.G. 1409.
Myers, Robert R., In re. 864 O.G. 724.
Naquin, Paul J., Jr., In re. 860 O.G. 9.
Nielsen, Axel L., In re. 865 O.G. 688.
Osswald, Dieter, In re. 866 O.G. 1426.
Pack, Douglas H., Wayne O. Ursenbach, and Frank Hatton-Ward, In re. 868 O.G. 14.
Paivinen John O., *v.* Eugene A. Sands. 864 O.G. 716.
Petrow, Vladimir, Alan Jeffery Thomas and Oliver Stephenson, In re. 866 O.G. 692.
Pilkington, Lionel Alexander Bethune, In re. 869 O.G. 1364.
Plank, Charles J., and Edward J. Rosinski, In re. 861 O.G. 1346.
Prater, Charles D., and James Wei, In re. 866 O.G. 1034.
Preda, Marco, In re. 864 O.G. 1066.
Priesmeyer, Charles, *v.* Stephen J. Rudy. 869 O.G. 3.
Puharich, Henry K., Appellant *v.* Edward J. Brenner, Appellee. 869 O.G. 363.
Purdy, Frederick A., In re. 859 O.G. 353.
Ranier, William C., Joseph J. Hitov, Edward M. Redding, Arthur W. Sloan and William D. Stewart, In re. 867 O.G. 360.
Richman, Donald, In re. 867 O.G. 1076.
Rogers Howard G., In re. 858 O.G. 361.
Rubinowitz, Leo, Ex parte. 862 O.G. 664.
Rynkiewicz, Henry J., and Gilbert B. Ayres, In re. 863 O.G. 4.
Schmierer, Livia C., and Jacques H. F. Valin *v.* John C. Newton. 863 O.G. 651.
Schneller, Joseph W., In re. 861 O.G. 346.
Seifried Walter, and Ludwig Klenk, In re. 867 O.G. 348.
Siegel, Edgar, and Klaus Sasse, In re. 860 O.G. 1001.
Sletzinger, Meyer, *v.* Frank H. Lincoln, William P. Schneider and George B. Spero. 868 O.G. 9.
Smith, Norman R., In re. 861 O.G. 9.
Spatz, Sydney M., and Marvin Koral, In re. 861 O.G. 682.
Sponnoble, Harry, In re. 866 O.G. 341.
Steinhauer, Alfred F., and Joseph C. Valenta, In re. 867 O.G. 1069.
Stevens, Derek Norman *v.* Herman Schmid and Emil Kirback. 865 O.G. 328.
Stiles, Samuel R,, In re. 868 O.G. 371.
Stohr, Jacques Andre, et al., Appellants *v.* Edward J. Brenner, Commissioner of Patents, Appellee. 867 O.G. 370.

Storchheim, Samuel, *v.* T. Stevens Daugherty 869 O.G. 352.
Tarbox, Frederick C., In re. 868 O.G. 707.
Tarczy-Hornoch, Zoltan, In re. 864 O.G. 334.
Tutthill, Fred E., In re. 867 O.G. 705.
Umbarger, James A., In re. 868 O.G. 359.
Umbricht, Emil, In re. 865 O.G. 672.
Van Venrooy, John H., and Walter L. Borkowski, In re. 869 O.G. 16.
Walter, Carl W., *v.* George R. Ryan. 864 O.G. 1056.
Weber, Kurt, Hansruedi Rickenbacher, and Ulrich Meister, In re. 867, O.G. 365.
White, Herschel T., and Arthur W. Langer, Jr., In re. 866 O.G. 1067.
Wiggins, Leslie Frederick, In re. 862 O.G. 14.
Winkelmann, Detlef, In re. 868 O.G. 1063.
Woolery, Robert G., In re. 866 O.G. 1048.
Wright, Harry Dudley, In re. 859 O.G. 1012.
Young, Ralph L., and Kingsley E. Humbert, Jr., In re. 865 O.G. 320.

U. S. GOVERNMENT PRINTING OFFICE : 1971 O-LT - 327-709

INDEX OF PATENTS

U.S. PATENT OFFICE
WASHINGTON, D.C.

JAN. - DEC.

1969

MICRO PHOTO DIVISION

BELL & HOWELL

J L N